SESI
CONSULTING
ENGINEERS

2020 PERIODIC REVIEW REPORT
for

December 31, 2019 – April 30, 2021
Reporting Period

FORMER GROSSINGERS RESORT
LIBERTY, SULLIVAN COUNTY, NEW YORK

NYSDEC Site # C353015

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LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bgs	Below ground surface
CVOC	Chlorinated Volatile Organic Compound
1,1-DCE	1,1 Dichloroethene
DER	Division of Environmental Remediation
DER-10	NYSDEC Technical Guidance for Site Investigation & Remediation
DUSR	Data Usability Summary Report
ECs	Engineering Controls
ECL	Environmental Conservation Law
EE	Environmental Easement
ESA	Environmental Site Assessment
FER	Final Engineering Report
HHEA	Human Health Exposure Assessment
ICs	Institutional Controls
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PHC	Petroleum Hydrocarbon
PID	Photoionization Detector
PRR	Periodic Review Report
RA	Remedial Action
RAWP	Remedial Action Work Plan

Acronym	Definition
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RRSCO	Restricted Residential Soil Cleanup Objectives
SCG	Standards, Criteria, and Guidance
SCO	Soil Cleanup Objectives
SESI	SESI Consulting Engineers, PC
SMP	Site Management Plan
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TOGS	Technical and Operations Guidance Series
TCE	Trichloroethene
USCO	Unrestricted Use Soil Cleanup Objectives
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

1.1 SUMMARY

SESI Consulting Engineers DPC (SESI) prepared this Periodic Review Report (PRR) for the period December 31, 2019 to April 30, 2021 for the Former Grossingers Resort New York State Brownfield Cleanup Program (BCP) Site No. C335015 located in Liberty, New York (hereinafter referred to as the "Site"). SESI prepared this PRR on behalf of Sullivan Resorts LLC, who entered into a Brownfield Cleanup Agreement (BCA) as Volunteers in April 2018 with the New York State Department of Environmental Conservation (NYSDEC) to remediate the Site.

Historically, Site development included a 272-room resort hotel, boiler room, laundry room, convention center, swimming pool, ice skating rink and its ancillary building, service building known as the Joy Cottage, service building known as the Harry G, and outdoor tennis courts constructed over time since 1950s. A downhill ski slope was located to the west of the main hotel buildings.

A remedial investigation (RI) was conducted in 2019 and the results of the soil sampling showed exceedances to the unrestricted use Soil Cleanup Objectives (USCOs) for benzene, ethylbenzene, 2-methylnaphthalene, poly-aromatic hydrocarbons (PAHs), mercury and lead. The results of surface soil samples showed one or more of the pesticides 4,4'-DDT, 4,4'-DDE and 4,4'-DDD, lead and PAHs were detected above the USCOs. The Site investigation for soil vapor identified elevated concentrations of Trichlorofluoromethane (Freon-11), Dichlorodifluoromethane (Freon-12), benzene, and 1,3 butadiene. The Site investigation for groundwater showed exceedances to the Class GA Groundwater Standards for benzene, ethylbenzene, isopropyl benzene, lead, barium, nickel and beryllium, Freon-11, Freon-12. The per-and polyfluoroalkyl substances (PFAS) perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected at concentrations exceeding the U.S. Environmental Protection Agency Health Advisory Level (HAL) of 70 parts per trillion (ppt). The impacts at the Site are the result of a leaking underground storage tank, historically applied pesticides, and other historical Site facilities.

The Site has been remediated to conditional Track 1. The remaining Engineering Control is groundwater monitoring. There are no engineering controls for soil vapors because the Site does not have any buildings however vapor intrusion investigation is on-going. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to the remaining contamination to ensure protection of public health and the environment. An Environmental Easement (EE) was granted to the NYSDEC and recorded by the Site owners with the Sullivan County Clerk, and it requires compliance with this Site Management Plan (SMP) and the ICs and ECs placed on the site. These ICs currently allow for residential, restricted residential use, commercial, and industrial uses, but prohibit the use of groundwater without necessary water quality treatment. The ECs require quarterly groundwater monitoring for natural attenuation. A Site Location Map is provided in **Figure 1.1 of the SMP**. All SMP figures are included in **Appendix A** of this report.

This PRR reports the required inspection and monitoring activities that were conducted during the current reporting period. The inspection and monitoring were conducted to ensure compliance with the ICs required by the EE and as stated in the SMP as approved by NYSDEC.

1.2 EFFECTIVENESS OF REMEDIAL PROGRAM

In order to monitor the effectiveness of the contaminant removal and the Site natural attenuation, an onsite monitoring well network including MW-201, MW-203, MW-204, MW-205, MW-206, MW-207, MW-208, MW-209, MW-210, MW-211, MW-212, MW-213, MW-214, MW-216, and MW-217 were sampled for volatile organic compounds (VOCs) and PFAS. As presented in Section 3, overall, Freon-11, Freon-12, and PFAS concentrations in groundwater detected during the April 2021 sampling event have declined have in comparison with the March 2020 sampling event.

In order to evaluate the potential for vapor intrusion, soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-11, SMPV-12, SMPV-13, and SMPV-14 March 2020. As presented in Section 3 overall soil VOC concentrations have decreased. However, concentrations of benzene and chlorofluorocarbons (CFCs)

in SMPV-2, SMPV-11, or SMPV-13 soil vapor samples increased during the reporting period.

1.3 COMPLIANCE

SESI sampled the groundwater well network in March 2020, September 2020, and April 2021. Soil vapor samples were collected in March 2020 and April 2021. The 2020 second quarter sampling event was not conducted due to COVID-19 work disturbances and the 2020 fourth quarter sampling event was not conducted because of the accumulated snow, which hindered safe Site access.

1.4 CONCLUSIONS AND RECOMMENDATIONS

SESI has verified that the ECs and ICs developed for the site are in compliance with the SMP.

We recommend the following for the next reporting period:

- Groundwater monitoring of the onsite monitoring well network including MW-203, MW-204, MW-206, MW-207, MW-213, MW-214, MW-216, and MW-217 for VOCs and PFAS on a semi-annual basis (2 times per year).
- There were no exceedances detected in monitoring wells MW-201, MW-205, MW-210, or MW-211 during this monitoring period. Therefore, SESI recommends no further sampling of these well.
- Soil vapor monitoring of the onsite vapor monitoring networks including SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-12, SMPV-11, SMPV-13, and SMPV-14 on an annual basis (1 time per year).

2.0 SITE OVERVIEW

2.1 SITE LOCATION AND DESCRIPTION

The Site is located in New Liberty, Sullivan County, New York and is identified as a portion of tax parcel ID number 30-1-1.1 on the Sullivan County Tax Map. A United States Geological Survey (USGS) topographical quadrangle map, **SMP Figure 1.1** in **Appendix A**, shows the Site location. The site is an approximately is a 17.30-acre area bounded by residential dwellings and undeveloped woodlands along Route 52 to the north, Route 52 and multiple commercial dwellings to the south, residential dwellings and commercial properties along Sunset Lake to the east, and the Middle Mongauop River and commercial properties along Route 17 to the west. A boundary map is attached to the amended BCA as required by Environmental Conservation Law (ECL) Title 14 Section 27-1419 and is shown on **SMP Figure 1.2** in **Appendix A**.

2.2 SITE HISTORY

The Site is part of the former Grossingers Resort, developed in 1916. The resort hotel was comprised of more than three dozen buildings with a total floor area of approximately 700,000 square feet. The resort featured indoor and outdoor tennis facilities, indoor and outdoor pools, a championship golf course, a skating rink, skiing facilities, horse trails and more. Since its closure in 1986 and prior to the implementation of the Remedial Investigation/Interim Remedial Measure (RI/IRM), the hotel complex had been shuttered and many of the old resort hotel structures remained. The structures were well beyond repair and required demolition. This Site is currently vacant; all operations on the site ceased around 1986. However, the golf course is still active and is not part of the Site.

2.2.1 REMEDIAL INVESTIGATION (RI) CONDUCTED AT THE SITE

The Remedial Investigation Report/Interim Remedial Measure Construction Completion Report (RIR/IRM-CCR) prepared by SESI in December 2019 details the results of prior investigations and the RI performed on the Site. The RI was conducted in accordance with the Remedial Investigation\Interim Remedial Measures Work Plan (RI/IRMWP) for

the Site, which was submitted to NYSDEC on October 3, 2018 and subsequently approved by the NYSDEC on October 16, 2018.

The results of the remedial investigation soil sampling showed exceedances to the USCOs for benzene, ethylbenzene, 2-methylnaphthalene, PAHs, mercury and lead.

After the demolition and removal of the building foundations, a soil boring investigation was conducted in every building footprint to determine the environmental conditions of the uncovered areas. The soil boring investigation included performing 24 additional soil borings (SB-51 to SB-74) at the Site. Two soil samples were collected from each boring. Soil borings were also conducted around the boiler room, which contained two (2) 15,000-gallon No. 4 heating oil underground storage tanks (USTs). Light non-aqueous phase liquid (LNAPL) was observed in borings in the boiler room area. (This LNAPL was subsequently removed as part of the remedial action.) The soil boring locations are shown on **SMP Figure 2.2** in **Appendix A**. The exceedances shown on SMP Figure 2.2 in Appendix A are the exceedances left post remediation as described below in Section 2.2.6.

All soil borings were advanced to a minimum of 15 ft-bgs or to bedrock, whichever was encountered first. Two soil samples were collected from each boring. Sample collection depths from each boring location were biased based on the field screening which included photo ionization detector (PID), visual, and olfactory observations. If the field screening did not result in any impacts, the soil samples were collected at the 6-inch interval above the water table and at the deepest 6-inch interval, which is just above bedrock. All samples were analyzed for Target Compound List/Target Analyte List (TCL/TAL) +30 tentatively identified compounds.

The results of the soil boring samples showed PAHs were detected above the unrestricted use SCOs in a soil sample collected from boring SB-62 at concentrations ranging from 3.23 mg/kg to 8.15 mg/kg. The pesticide 4,4'-DDE was detected in soil boring SB-66 (3.5 to 4.0 feet) above the unrestricted use SCO at a concentration of 0.005 mg/kg. In soil boring SB-73 (11.5 to 12.0), the pesticides 4,4'-DDT (0.014 mg/kg), 4,4'-DDE (0.027 mg/kg) and 4,4'-DDD (0.008 mg/kg) were detected above the unrestricted use SCOs. All these exceedances were excavated as part of the remedial action as described below; the remaining exceedances shown on SMP Figure 2.2 in Appendix A are described in section 2.2.6 below.

Surface Soil Sampling

Surface soil samples were initially collected at ten locations during October and November 2018 after most of the buildings were demolished. The surface soil sample locations were determined after the vegetation was removed based on field screening, visual observations of stained soils and historic data. Surface soil samples were collected from the 0.0 to 2-inch interval below ground surface.

The results of the ten surface soil samples showed one or more of the pesticides 4,4'-DDT, 4,4'-DDE and 4,4'-DDD were detected above the unrestricted use SCOs in seven of the ten surface soil samples at concentrations ranging from 0.005 mg/kg to 0.061 mg/kg. Lead was detected in surface soil sample SS-3 above the unrestricted use SCOs at 67.1 mg/kg. PAHs were detected above the unrestricted use SCOs in sample SS-5 at concentrations ranging from 3.96 mg/kg to 9.92 mg/kg.

To determine the horizontal and vertical extent of these pesticides, additional surface soil samples were collected at fifteen (15) locations within the BCP Area during November and December 2018. Two samples were collected from each location at the 0 to 2-inch below grade interval and the 6 to 8-inch below grade interval after the vegetation was removed. The soil samples were collected using a stainless-steel trowel or shovel and delivered to Test America Laboratories for pesticide analysis on a 24-hour turnaround time. Care was taken when collecting the soil samples not to cross-contaminate between sample intervals and sample locations. The stainless-steel trowel or shovel was decontaminated prior to each use with a detergent wash and distilled water rinse. Any fall in from the surrounding soil was removed prior to collecting the sample. All surface soil exceedances were excavated except for the exceedances shown on **SMP Figure 2.3** in **Appendix A**. The remain soil exceedances are described in Section 2.2.6 below.

After demolition of the buildings, eight additional surface soil samples were collected beneath the former buildings during June 2019. Pesticide exceedances to the unrestricted use SCOs were detected in three (3) of the eight (8) samples.

Soil Vapor Sampling

A soil vapor investigation was determined to be necessary in preparation for the planned development on the Site, which may include buildings. To evaluate the potential for future exposures in the future building, SESI designed a soil vapor investigation in accordance with the NYS Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion (Guidance) (October 2006). The SVI plan was included in the RI/IRMWP submitted to the NYSDEC on October 3, 2018 and subsequently approved on October 16, 2018.

During the period from November 30, 2018 to December 14, 2018, ten (10) SV samples (V-1, V-2, V-3, V-10, V-11, V-12, V-13, V-14, V-15, and V-16) were collected across the Site. The sample locations and results are presented on **SMP Figure 2.4** in **Appendix A**. The soil vapor samples were collected from vapor points installed in the vadose zone to a depth of 2 or 3 ft-bg. Planned SV sample locations V4 through V9 were not installed because they are all in the former LNAPL area, which was subsequently remediated by excavation to bedrock.

A second round of soil vapor samples was collected from February 8 to 11, 2019. SV samples were collected from locations V-1, V-2, V-11, V-12, V-13 and V-14. SESI attempted to collect samples from the remaining locations; however, melting ice and snow caused the vapor points to fill up with water. The soil vapor results were compared to the NYSDOH October 2006 air guideline values, which does not include values for soil vapors.

The soil vapor results showed that benzene was detected in samples V-1 (24 ug/m^3), V-10 (40 ug/m^3) and V-14 (18 ug/m^3). Soil vapor point V-1 is located in the former tennis court area. Soil vapor point V-10 is located south of the former indoor pool and V-14 is located near the western boundary of the BCP area. The compound 1,3-butadiene was also detected in samples V-1 (66 ug/m^3), V-3 (28 ug/m^3), V-11 (53 ug/m^3), V-15 (60 ug/m^3) and V-16 (57 ug/m^3). Soil vapor point V-3 is located beneath the former convention center, V-11 is located at the southeast portion of the BCP and V-15 and V-16 are located in the former ski maintenance area. The results of the soil vapor samples collected from February 8 to February 11, 2019 showed trichlorofluoromethane in all six (6) samples at concentrations ranging from 2,300 ug/m^3 at V-2 to 660,000 ug/m^3 at V-11. Dichlorodifluoromethane was detected at concentrations ranging from 110 ug/m^3 at V-2 to 680,000 ug/m^3 at V-13. Benzene was detected in soil vapor point V-

14 at 16 ug/m^3. The compound 1,3-butadiene was not detected in any of the vapor points sampled in February 2019.

Groundwater Sampling

The site investigation for groundwater included the installation of five (5) monitoring wells. The results of the groundwater sample showed exceedances to the Class GA Groundwater Ambient Water Quality (AWQS) Standards for benzene, ethylbenzene, isopropyl benzene, lead, barium, nickel and beryllium. These wells were abandoned prior to the implementation of the IRM.

Initially, twelve (12) groundwater monitoring wells (MW-201 through MW-212) were installed. The wells were installed to replace the abandoned wells, investigate potential impacts to groundwater from the soil contamination and for delineation of groundwater contamination upgradient and downgradient from the former, since remediated, boiler room/LNAPL area.

The twelve (12) groundwater monitoring wells (MW-201 through MW-212) were gauged for depth to LNAPL/depth to groundwater after they were installed and developed. A sheen was detected in five monitoring wells (MW-202, MW-203, MW-204, MW-205 and MW-206) located within the boiler room/LNAPL area. Therefore, these five wells located in the former UST/LNAPL area were not sampled. In later sampling events, wells MW-203, MW-204, MW-205 and MW-206 were sampled because there was no LNAPL detected; and MW-202 was destroyed and never sampled. The remaining wells were sampled for TCL/TAL+30, 1-4 dioxane and PFAS in accordance with the RI/IRMWP. During the December 2018 sampling event, one well (MW-207) resulted in exceedances of the AWQS for Freon-12 and Freon-11. There were no other exceedances for any of the other TCL/TAL compounds or 1,4 dioxane in any of the wells. The groundwater sampling results are presented in on **SMP Figure 2.8** in **Appendix A**.

Based on the NYSDEC January 10, 2019 comments, three monitoring wells (MW-213, MW-214, MW-215) were installed at the Site on January 17, 2019. MW-215 was installed in the ski maintenance area to replace MW-1. Two monitoring wells (MW-216 and MW-217) were installed in July 2019 along the western boundary of the BCP site area for downgradient delineation of the Freon.

An additional round of groundwater samples was collected from the previous and new monitoring wells on January 29, 2019 and from February 6 to February 8, 2019. The samples were analyzed for TCL/TAL+30 and select wells, where PFAS were previously detected, were analyzed also for PFAS. The results of the groundwater samples collected on January 29 and February 6 through 8, 2019 showed Freon-12 and Freon-11 exceedances in well MW-213. No other exceedances of the Groundwater Class GA Effluent Standards were detected in any of the wells sampled. This includes MW-207 which previously had exceedances for Freon-12 and Freon-11.

As a result of the Freon exceedances in well MW-213, on July 10, 2019 two additional monitoring wells (MW-216 and MW-217) were installed to the north of well MW-213 to delineate the northern extent of the Freon plume. The results of the groundwater sampling for wells MW-216 and MW-217 showed Freon 12 and Freon 11 above 5 ug/l in monitoring well MW-216 at concentrations of 48 ug/l and 120 ug/l, respectively. Freon 11 was detected in monitoring well MW-217 at a concentration of 12 ug/L. Freon 12 was not detected in monitoring well MW-217.

The PFAS compounds PFOS and PFOA were detected in well MW-207 at concentrations of 91 and 100 ppt, respectively. PFOS and PFOA are present at a maximum combined concentration of 159 ppt in MW-206 and 191 ppt in MW-217, compared to the current U.S. Environmental Protection Agency HAL of 70 ppt.

2.2.2 DESCRIPTION OF INTERIM REMEDIAL MEASURES

The following IRM were conducted in accordance with the NYSDEC approved RI/IRMWP.

1. Removal of two (2) USTs that were present under the boiler room slab and the clean-up of the resulting LNAPL discharge area.
2. Basin Sediment: Removal of sediments, which contained metals exceedances, and excavation around the outlet area until confirmed clean post-excavation samples (which did not exceed the USCOs) were obtained.
3. Stockpile D: Disposal of the stockpiled material and sampling in the stockpile area to confirm removal of all contaminants that exceeded the unrestricted SCOs.

4. Ice Skating Rink: Excavation of the area around SB-14, which contained PAH and VOC exceedances, on a 25-foot radius to a depth of 1-foot. Collection of bottom and side wall samples to document the remedial action.
5. Joy Cottage: Excavation of the area around SB-38, which contained pesticide exceedances, on a 25-foot radius to a depth of 1.5-foot. Collection of bottom and side wall samples to document the remedial action.
6. Ski Maintenance Area: Excavation of the area around SB-16, which had metal exceedances, on a 25-foot radius to depth of 1.5-foot and around SB-41, which had pesticide exceedances, on a 25-foot radius to a depth of 1.5 foot. Collection of bottom and side wall samples to document remedial action.
7. From August 2018 through December 2018, SESI observed Capital Wrecking remove structures on the Site, remove two USTs, and excavate contaminated soil. Air monitoring was conducted in accordance with the CAMP.

2.2.3 DESCRIPTION OF REMEDIAL ACTIONS

The site was remediated in accordance with the remedy selected by the NYSDEC in the RI/IRMWP dated October 2018.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Excavation and off-site disposal of on-site soils which exceed USCOs, as defined by 6 NYCRR Part 375-6.8.
2. Closure of the two (2) USTs by removal of all observable LNAPL in soil and weathered shale;
3. Collection and analysis of end-point samples at the bottom and sidewalls of all the excavations to evaluate the remedy by comparing results to the Track 1 USCOs.
4. Execution and recording of an Environmental Easement to restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH.

5. Development and implementation of a Site Management Plan for long-term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance, and (4) reporting.

6. Periodic certification of the institutional and Engineering Controls listed above.

2.2.4 REMOVAL OF CONTAMINATED MATERIALS FROM THE SITE

The remedial excavations removed contaminated soil and other materials to achieve the Track 1 USCOs. The soil was found to contain PAHs such as benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene and the pesticides 4,4'-DDD, 4,4'-DDE and 4,4'-DDT at concentrations above their applicable Track 1 SCOs.

For soil disposal and excavation organization purposes, prior to the soil disposal activities, waste characterizations samples were collected in-situ for disposal purposes. The soil samples were collected and analyzed as requested by the disposal facility.

The remediation was considered complete when all excavation post-excavation samples resulted in constituent concentrations below the Track 1 USCOs.

2.2.5 ON-SITE AND OFF-SITE TREATMENT SYSTEMS

No long-term treatment systems were required to be installed as part of the site remedy.

2.2.6 DESCRIPTION OF RESIDUAL CONTAMINATION

Described in Section 3 of this report.

2.2.7 MANAGEMENT OF RESIDUAL CONTAMINATION THROUH INSTITUTIONAL AND ENGINEERING CONTROLS IN THE ENVIRONMENTAL EASEMENT

The SMP lists the ICs and ECs required by the NYSDEC to manage the residual contamination present at this Site to protect public health and the environment in the future and keep the Site safe for reuse. The remedy for the Site did not require the construction of any other Engineering Control systems.

The Site has conditionally achieved a Track 1 remedy. Until that is changed to an unconditional remedy, the Department requires that an EE be placed on the site to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling the use of groundwater; and (3) limit the use and development of the site to residential, restricted residential, commercial and industrial uses. A SMP (December 2019) was prepared by SESI and approved by the DEC for the long-term management and monitoring of the EE requirements.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, PROTECTIVENESS

The goal of the SMP is to manage the residual contamination at the site through implementation of ICs until the Department determines that the conditional Track 1 designation can be changed to an unconditional Track 1. At present, SESI is conducting monitoring/inspection of the ICs and ECs on the Site in accordance with the SMP dated December 2019.

Groundwater Monitoring

In order to monitor the effectiveness of the contaminant removal and the Site natural attenuation, an onsite monitoring well network including MW-201, MW-203, MW-204, MW-205, MW-206, MW-207, MW-210, MW-211, MW-213, MW-214, MW-216, and MW-217 were sampled for VOCs and PFAS. Monitoring well MW-208 has been damaged and was not sampled. Monitoring wells MW-209 and MW-212 were not sampled in September 2020 due to insufficient water levels. Monitoring well MW-212 was not sampled in April 2021 due to low water levels.

The groundwater sampling and purging logs are presented in **Appendix B**. **Table 3.1** presents the groundwater analytical result summary compared to the AWQS. The laboratory data of the sampling events for this monitoring period are presented in **Appendix C**.

Table 3.2 below and **Figure 3.1** presents a summary of VOC exceedances in groundwater. Freon-11 was detected in groundwater samples collected from monitoring wells MW-213, MW-214, MW-216, and MW-217 at concentrations ranging from 5.4 ug/L (MW-214 April 2021) to 71 ug/L (MW-213 March 2020). Freon 11 concentrations detected during the April 2021 sampling event have decreased in MW-213, MW-214, and MW-216 in comparison with the March 2020 sampling event. In addition, no Freon 11 exceedances were detected in monitoring well MW-201, MW-203, MW-204, MW-206, MW-207, MW-210, and MW-211 during this monitoring period.

Freon 12 was detected in groundwater samples collected from monitoring wells MW-213, MW-214, and MW-216 at concentrations ranging from 3.9 ug/L (MW-216 September 2020) to 74 ug/L (MW-213 March 2020). Freon 12 concentrations detected during the April 2021 sampling event have decreased in MW-213, MW-214, and MW-216 in

comparison with the March 2020 sampling event. Freon 12 was not detected in MW-217 during the March 2020, September 2020, and April 2021 sampling events. In addition, no Freon 12 exceedances were detected in monitoring wells MW-201, MW-203, MW-204, MW-206, MW-207, MW-210, MW-211, or MW-217 during this monitoring period.

Table 3.2 Summary of Historical VOC Exceedances in Groundwater

LOCATION			MW-213		MW-213		MW-213		MW-213	
SAMPLING DATE			1/29/2019		3/4/2020		9/2/2020		4/27/2021	
SAMPLE TYPE			Results	Q	WATER		WATER		WATER	
	NY-AWQS	Units			Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (Feaon 11)	5	ug/l	**48**		**71**		**56**		**52**	
Dichlorodifluoromethane (Freon 12)	5	ug/l	**29**		**74**		**40**		**54**	

LOCATION			MW-214		MW-214		MW-214		MW-214	
SAMPLING DATE			1/29/2019		3/4/2020		9/3/2020		4/27/2021	
SAMPLE TYPE			Results	Q	WATER		WATER		WATER	
	NY-AWQS	Units			Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (Feaon 11)	5	ug/l	0.14	U	**10**		**5.1**		**5.4**	
Dichlorodifluoromethane (Freon 12)	5	ug/l	0.88	J	**27**		**16**		**21**	

LOCATION			MW-216		MW-216		MW-216		MW-216	
SAMPLING DATE			7/10/2019		3/6/2020		9/3/2020		4/28/2021	
SAMPLE TYPE			Results	Q	WATER		WATER		WATER	
	NY-AWQS	Units			Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (Feaon 11)	5	ug/l	**120**		**48**		**6.9**		**29**	
Dichlorodifluoromethane (Freon 12)	5	ug/l	**48**		**15**		**3.9**		**11**	

LOCATION			MW-217		MW-217		MW-217		MW-217	
SAMPLING DATE			7/10/2019		3/6/2020		9/3/2020		4/28/2021	
SAMPLE TYPE			Results	Q	WATER		WATER		WATER	
	NY-AWQS	Units			Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (Feaon 11)	5	ug/l	**12**		**22**		**5.6**		**47**	
Dichlorodifluoromethane (Freon 12)	5	ug/l	5	U	5	U	0.31	U	5	U

Notes:

1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC AWQS
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected

Table 3.2 below and **Figure 3.1** presents a summary of PFAS exceedances in groundwater. The PFAS compound PFOS was detected in monitoring wells MW-203, MW-204, MW-206, MW-208, MW-213, MW-214, and MW-217 during this monitoring period. PFOS concentrations have declined in April 20201 in MW-203, 204, 206, 207, 213, 214, and 217 in comparison with the March 2020 sampling event. The PFAS compound PFOA was detected in monitoring wells MW-206, MW-208, MW-213, MW-214, MW-216, and MW-217 during this monitoring period.. PFOA concentrations have declined in April 2021 in monitoring wells MW-203, MW-204, MW-207, MW-213, MW-214, and MW-

17 in comparison with the March 2020 sampling event. In addition, no PFOA exceedances were detected in monitoring wells MW-203, MW-204, or MW-207 during this monitoring period.

Table 3.3 Summary of Historical PFAS Exceedances in Groundwater

LOCATION			MW-207		MW-207		MW-207		MW-207	
SAMPLING DATE			2/6/2019		3/5/2020		9/3/2020		4/27/2021	
SAMPLE TYPE			WATER		WATER		WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l	**34**		**11.3**		**22.1**		**8.36**	
Perfluorooctanoic Acid (PFOA)	10	ng/l	**23.4**		**6.59**		**5.46**		**2.2**	

LOCATION			MW-208		MW-208	
SAMPLING DATE			2/7/2019		3/5/2020	
SAMPLE TYPE			WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l	**17.6**		**68.2**	
Perfluorooctanoic Acid (PFOA)	10	ng/l	**10.8**		**38.2**	

LOCATION			MW-213		MW-213		MW-213		MW-213	
SAMPLING DATE			1/29/2019		3/4/2020		9/2/2020		4/27/2021	
SAMPLE TYPE			WATER		WATER		WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l	**91.2**		**73.4**		**60.7**		**70**	
Perfluorooctanoic Acid (PFOA)	10	ng/l	**40.4**		**32.8**		**26.5**		**27.7**	

LOCATION			MW-214		MW-214		MW-214		MW-214	
SAMPLING DATE			1/29/2019		3/4/2020		9/3/2020		4/27/2021	
SAMPLE TYPE			WATER		WATER		WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l	**48.5**		**47.3**		**46.6**		**40.3**	
Perfluorooctanoic Acid (PFOA)	10	ng/l	**68.6**		**29.9**		**25.8**		**29.5**	

LOCATION			MW-216		MW-216		MW-216		MW-216	
SAMPLING DATE			7/10/2019		3/6/2020		9/3/2020		4/28/2021	
SAMPLE TYPE			WATER		WATER		WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l	**29.4**		**6.51**		**24.8**		**24.9**	
Perfluorooctanoic Acid (PFOA)	10	ng/l	**17.9**		**8.18**		**9.39**		**10.8**	

LOCATION			MW-217		MW-217		MW-217		MW-217	
SAMPLING DATE			7/10/2019		3/6/2020		9/3/2020		4/28/2021	
SAMPLE TYPE			WATER		WATER		WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l	**17**		**30**		**42.1**		**19.5**	
Perfluorooctanoic Acid (PFOA)	10	ng/l	**16.5**		**15.7**		**13.8**		**14.6**	

Notes:

1. Results are shown in micrograms per liter (ug/L)
2. Yellow shading denotes exceedances of NYSDEC PFAS Screening Values
3. Bold = Compound Detected
4. Q = Qualifier
5. U = Compound Not Detected

Soil Vapor

Soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-11, SMPV-13, and SMPV-14 in March 2020 and April 2021. SMPVP-12 was sampled in March 2020, but could not be sampled in April 2021 due to water in the vapor line. **Table 3.4** presents the vapor analytical result. The analytical data are presented in **Appendix D**. The sub-slab vapor locations are depicted in **Figure 3.2**.

As shown on **Table 3.5** below, detections of Freon-11 were identified in vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-11, SMPVP-12, SMPV-13, and SMPV-14 at concentrations ranging from 1.21 ug/m3 (SMPV-3) to 447 ug/m3 (SMPV-14). Freon-11 concentrations detected during the March 2020 and April 2021 sampling events have declined in SMPV-1, SMPV-2, SMPV-11, and SMPV-14 in comparison with the February 2019 sampling event. Freon-11 soil vapor concentrations have declined in vapor points SMPV-3, SMPV-10 in comparison with the December 2018 sampling event. Freon 11 soil vapor concentrations have increased in vapor point SMPV-13 in comparison with the November 2018 sampling event.

Freon-12 was detected in soil vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-11, SMPV-13, and SMPV-14 at concentrations ranging from 2.24 ug/m3 (SMPV-3) to 447 ug/m3 (SMPV-14). Freon-12 concentrations detected during the April 2021 sampling event have declined in SMPV-1, SMPV-2, SMPV-11, and SMPV-14 in comparison with the February 2019 sampling event. Freon-11 soil vapor concentrations have increased in vapor point SMPV-13 in comparison with the November 2018 sampling event.

Table 3.5: Summary of Historical Soil Vapor Results

LOCATION	V-1		V-1		SMPV-1		SMPV-1	
SAMPLING DATE	12/14/2018		2/11/2019		3/6/2020		4/29/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	**66**		370	U	0.442	U	0.442	U
Benzene	**24**		590	U	**0.811**		**2.37**	
Trichlorofluoromethane (FREON 11)	3.5	U	**380000**	**B**	**4.24**		**2.56**	
Dichlorodifluoromethane (FREON 12)	9.9	U	2600	U	**3.21**		**2.36**	

LOCATION	V-2		V-2		SMPV-2		SMPV-2	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		4/29/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	3.5	U	0.442	U	0.442	U
Benzene	2.3	U	5.6	U	0.639	U	**1.52**	
Trichlorofluoromethane (FREON 11)	**3.5**		**2300**	B	1.12	U	**21.5**	
Dichlorodifluoromethane (FREON 12)	9.9	U	**110**		**2.16**		**2.52**	

LOCATION	V-3		SMPV-3		SMPV-3	
SAMPLING DATE	12/14/2018		3/6/2020		4/29/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	**28**		0.442	U	0.442	U
Benzene	**5.1**	**J**	0.639	U	**2.87**	
Trichlorofluoromethane (FREON 11)	**26**		**3.2**		**1.21**	
Dichlorodifluoromethane (FREON 12)	**140**		**4.84**		**2.34**	

LOCATION	V-10		SMPV-10		SMPV-10	
SAMPLING DATE	11/30/2018		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	0.442	U	0.442	U
Benzene	**40**		**1.09**		**1.9**	
Trichlorofluoromethane (FREON 11)	3.5	U	**111**		**21.5**	
Dichlorodifluoromethane (FREON 12)	9.9	U	**73.2**		**8.41**	

LOCATION	V-11		V-11		SMPV-11		SMPV-11	
SAMPLING DATE	12/13/2018		2/11/2019		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	**53**		510	U	0.442	U	0.442	U
Benzene	**11**		810	U	**0.652**		**2.87**	
Trichlorofluoromethane (FREON 11)	**62**		**660000**	B	**9.72**		**238**	
Dichlorodifluoromethane (FREON 12)	9.9	U	3500	U	**2.52**		**2.24**	

LOCATION	V-12		V-12		SMPV-12	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	5.7	U	0.442	U
Benzene	2.3	U	5.7	U	0.639	U
Trichlorofluoromethane (FREON 11)	3.5	U	**5300**	B	**1.82**	
Dichlorodifluoromethane (FREON 12)	9.9	U	25	U	**2.73**	

LOCATION	V-13		SMPV-13		SMPV-13	
SAMPLING DATE	11/30/2018		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	0.14	U	**0.878**		0.442	U
Benzene	0.23	U	0.639	U	**1.38**	
Trichlorofluoromethane (FREON 11)	**13**		**48.7**		**105**	
Dichlorodifluoromethane (FREON 12)	**69**		**285**		**376**	

LOCATION	V-14		V-14		SMPV-14		SMPV-14	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	5	U	0.442	U	0.442	U
Benzene	**18**		**16**	**J**	**1.51**		**0.834**	
Trichlorofluoromethane (FREON 11)	**4.5**	**J**	**4600**	**B**	**826**		**447**	
Dichlorodifluoromethane (FREON 12)	**21**	**J**	**1400**		**82.1**		**10.6**	

Notes:

1. Results are shown in micrograms per cubic meter (ug/m3)
2. Bold = Compound Detected
3. Q = Qualifier
4. U = Compound Not Detected
5. J = concentration estimated

4.0 IC/EC PLAN COMPLIANCE

4.1 IC/EC REQUIREMENTS AND COMPLIANCE

Institutional and Engineering Controls

The site remedy requires that an EE be placed on the property to (1) implement, maintain and monitor the Institutional and Engineering Controls; (2) prevent future exposure to remaining contamination by controlling the use of groundwater; and (3) limit the use and development of the site to residential, restricted residential, commercial and industrial uses. A SMP (December 2019) was prepared by SESI and approved by the DEC for the long-term management and monitoring of the EE requirements.

A series of ICs is required to prevent future exposure to remaining contamination. Adherence to these ICs on the Site is required and will be implemented under this SMP. The IC boundaries are shown on **SMP Figure 3.1**. These ICs are:

- The property may be used for residential, restricted residential, commercial, and industrial use;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Sullivan County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP; all ECs must be inspected at a frequency and in a manner defined in the SMP.
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement; and
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on **SMP Figure 3.1**, and any potential impacts that are identified must be monitored or mitigated.

Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC Division of Environmental Remediation (DER-10) Technical Guidance for Site Investigation and Remediation (May 3, 2010).

Monitoring Wells Associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue as determined by the NYSDEC, with consultation with NYSDOH, until residual concentrations of the dissolved phase Freon in groundwater are found to be consistently below ambient water quality standards, the Site Standards, Criteria and Guidelines (SCGs), or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates that monitoring for natural attenuation may no longer be required, a proposal to discontinue the system will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If Freon levels in groundwater become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

Soil Vapor Intrusion Evaluation

A soil vapor intrusion evaluation must be performed upon a change in use of the property that will result in occupancy of a previously unoccupied building or initial occupancy of a new building. Upon completion of the evaluation, if an action is required, any actions taken or to be taken must be reflected in an updated SMP.

4.2 IC/EC CERTIFICATION

The NYSDEC Institutional and Engineering Controls Certification Form has been completed and is included in **Appendix E**.

5.0 MONITORING PLAN COMPLIANCE

Monitoring Completed During Current Reporting Period

Table 5.1: SMP Monitoring Frequency Requirements

Task/Report	Reporting Frequency
Inspection Report	NA
Groundwater monitoring and sampling	Quarterly: March, June, September and December
Soil Vapor Sampling	Semi-annually
Periodic Review Report	Annually, or as otherwise determined by the Department

Groundwater Monitoring

Groundwater samples were collected from monitoring wells MW-201, MW-203, MW-204, MW-205, MW-206, MW-207, MW-210, MW-211, MW-213, MW-214, MW-216, and MW-217 in accordance with the SMP. Groundwater samples were analyzed for VOCs and PFAS as described in Section 3.

Sub-slab Vapor Monitoring

Soil vapor samples were collected from vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-12, SMPV-11, SMPV-13, and SMPV-14 in March 2020 and April 2021 in accordance with the SMP.

Comparison with Remedial Objectives

Groundwater

Based upon results of groundwater sampling, Freon-11 was detected in groundwater samples collected from monitoring wells MW-213, MW-214, MW-216, and MW-217 at concentrations ranging from 5.4 ug/L (MW-214 April 2021) to 71 ug/L (MW-213 March 2020). Freon-11 concentrations detected during the April 2021 sampling event have declined in MW-213, MW-214, and MW-216 in comparison with the March 2020 sampling event. Freon-11 concentration in MW-217 have increased slightly over the March 2020 to April 2021 sampling events. No Freon 11 exceedances were detected in monitoring

well MW-201, MW-203, MW-204, MW-206, MW-207, MW-210, and MW-211 during this monitoring period.

Freon-12 was detected in groundwater samples collected from monitoring wells MW-213, MW-214, and MW-216 at concentrations ranging from 3.9 ug/L (MW-216 September 2020) to 74 ug/L (MW-213 March 2020). Freon-12 concentrations detected during the April 2021 sampling event have declined in MW-213, MW-214, and MW-216 in comparison with the March 2020 sampling event. Freon-12 was not detected in MW-217 during the March 2020, September 2020, and April 2021 sampling events. no Freon 12 exceedances were detected in monitoring wells MW-201, MW-203, MW-204, MW-206, MW-207, MW-210, MW-211, or MW-217 during this monitoring period.

Soil Vapor

The April 2021 soil vapor sampling event identified detections of Freon-11 in vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-11, SMPV-13, and SMPV-14 at concentrations ranging from 1.21 ug/m3 (SMPV-3) to 447 ug/m3 (SMPV-14). Freon-11 concentrations detected during the April 2021 sampling event have declined in SMPV-1, SMPV-2, SMPV-11, and SMPV-14 in comparison with the February 2019 sampling event. Freon-11 soil vapor concentrations have declined in vapor points SMPV-3, SMPV-10 in comparison with the December 2018 sampling event. Freon 11 soil vapor concentrations have increased in vapor point SMPV-13 in comparison with the November 2018 sampling event.

Freon-12 was detected in soil vapor points SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-11, SMPV-13, and SMPV-14 at concentrations ranging from 2.24 ug/m3 (SMPV-3) to 447 ug/m3 (SMPV-14). Freon-12 concentrations detected during the April 2021 sampling event have declined in SMPV-1, SMPV-2, SMPV-11, and SMPV-14 in comparison with the February 2019 sampling event. Freon-11 soil vapor concentrations have increased in vapor point SMPV-13 in comparison with the November 2018 sampling event.

Monitoring Deficiencies

All aspects of the monitoring plan were in accordance with NYDEC applicable regulations.

Conclusions and Recommendations

All aspects of the remedial program appear to be meeting the site remedy design goal.

We recommend the following for the next reporting period:

- Groundwater monitoring of the onsite monitoring well network including MW-203, MW-204, MW-206, MW-207, MW-213, MW-214, MW-216, and MW-217 for VOCs and PFAS on a semi-annual basis (2 times per year).
- There were no exceedances detected in monitoring wells MW-201, MW-205, MW-210, or MW-211 during this monitoring period. Therefore, SESI recommends no further sampling of these well.
- Soil vapor monitoring of the onsite vapor monitoring networks including SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-12, SMPV-11, SMPV-13, and SMPV-14 on an annual basis (1 time per year).

6.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The site remedy does not rely on any mechanical systems, such as sub-slab depressurization systems or air sparge/ soil vapor extraction systems, to protect public health and the environment. Therefore, the operation and maintenance of such components is not applicable.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Compliance with the SMP

All aspects of the SMP, including IC/EC and monitoring, have met the requirements. The O&M is not required at this time for the site.

There are no new exposure pathways resulting in an unacceptable risk.

Performance and Effectiveness of the Remedy

The sampling of the monitoring well network is determining the effectiveness of the Site's ability to naturally degrade the contaminants of concern in groundwater.

Future PRR Submittals

The next PRR will be submitted in May 2022.

Recommendations

We recommend the following for the next reporting period:

- Groundwater monitoring of the onsite monitoring well network including MW-203, MW-204, MW-206, MW-207, MW-213, MW-214, MW-216, and MW-217 for VOCs and PFAS on a semi-annual basis (2 times per year).
- There were no exceedances detected in monitoring wells MW-201, MW-205, MW-210, or MW-211 during this monitoring period. Therefore, SESI recommends no further sampling of these well.
- Soil vapor monitoring of the onsite vapor monitoring networks including SMPV-1, SMPV-2, SMPV-3, SMPV-10, SMPV-12, SMPV-11, SMPV-13, and SMPV-14 on an annual basis (1 time per year).

TABLES

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-201		MW-201		MW-201		MW-203		MW-203		MW-204		MW-204		MW-205	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		3/5/2020		4/28/2021		3/5/2020		4/27/2021		3/5/2020	
LAB SAMPLE ID				L2010346-05		460-217659-1		L2121852-01		L2010093-01		L2121852-02		L2010093-02		L2121570-05		L2010093-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																			
Ethylbenzene	100-41-4	5	ug/l	2.5	U	0.3	U	2.5	U	2.5	U	**3.1**		2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	0.42	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.22	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.49	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	-		2.5	U	2.5	U	**0.95**	**J**	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	-		2	U	2	U	2	U	2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	0.5	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.43	U *	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	-		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	-		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	1.3	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	0.37	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	28	U	250	U	250	U	250	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.28	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.25	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	-		2.5	U	2.5	U	**1**	**J**	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	0.22	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	0.47	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	-		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.21	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	1.1	U	5	U	5	U	5	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	-		2	U	2	U	2	U	2	U	2	U	2	U
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	4.4	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.2	U	0.5	U	0.5	U	**0.27**	**J**	0.5	U	0.5	U	0.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-201		MW-201		MW-201		MW-203		MW-203		MW-204		MW-204		MW-205	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		3/5/2020		4/28/2021		3/5/2020		4/27/2021		3/5/2020	
LAB SAMPLE ID				L2010346-05		460-217659-1		L2121852-01		L2010093-01		L2121852-02		L2010093-02		L2121570-05		L2010093-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	0.55	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	**0.44**	**J**	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	-		5	U	5	U	5	U	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	0.41	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	0.17	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	0.82	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	0.54	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.34	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	0.26	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.26	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	0.31	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	0.35	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	1.9	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	0.43	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.31	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.37	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	0.36	U	2.5	U	2.5	U	**1**	**J**	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	0.43	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	**2.5**		2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	-		2	U	2	U	**1.1**	**J**	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	0.34	U	2.5	U	2.5	U	**0.87**	**J**	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	-		2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-205		MW-206		MW-206		MW-207		MW-207		MW-207		MW-208		MW-209	
SAMPLING DATE				4/27/2021		3/5/2020		4/27/2021		3/5/2020		9/3/2020		4/27/2021		3/5/2020		3/6/2020	
LAB SAMPLE ID				L2121570-06		L2010093-04		L2121570-04		L2010093-06		460-217659-2		L2121570-03		L2010093-05		L2010346-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																			
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	2	U	2	U	-		2	U	2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	0.5	U	2	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.43	U *	0.5	U	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	-		5	U	5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	5	U	5	U	-		5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U	5	U	1.3	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U	250	U	28	U	250	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	0.5	U	0.5	U	-		0.5	U	0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	1.1	U	5	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	2	U	2	U	-		2	U	2	U	2	U
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U	5	U	4.4	U	5	U	**3.2**	**J**	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U	0.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-205		MW-206		MW-206		MW-207		MW-207		MW-207		MW-208		MW-209	
SAMPLING DATE				4/27/2021		3/5/2020		4/27/2021		3/5/2020		9/3/2020		4/27/2021		3/5/2020		3/6/2020	
LAB SAMPLE ID				L2121570-06		L2010093-04		L2121570-04		L2010093-06		460-217659-2		L2121570-03		L2010093-05		L2010346-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U	2.5	U	**0.41**	**J**	2.5	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	-		5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U	1	U	0.17	U	1	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	0.82	U	5	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	0.54	U	2	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.32	U	2.5	U	**1.8**	**J**	2.5	U
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	**1.4**	**J**	5	U	0.31	U	5	U	5	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	1	U	1	U	0.35	U	1	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	1.9	U	5	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	2	U	2	U	-		2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	-		2.5	U	2.5	U	2.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-209		MW-210		MW-210		MW-210		MW-211		MW-211		MW-211		MW-213	
SAMPLING DATE				4/28/2021		3/6/2020		9/3/2020		4/29/2021		3/6/2020		9/3/2020		4/28/2021		3/4/2020	
LAB SAMPLE ID				L2121852-03		L2010346-06		460-217659-3		L2122071-01		L2010346-04		460-217659-4		L2121852-04		L2009793-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																			
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	-		2	U	2	U	-		2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	0.5	U	2	U	2	U	0.5	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.43	U *	0.5	U	0.5	U	0.43	U *	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	-		5	U	5	U	-		5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	-		5	U	5	U	-		5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	1.3	U	5	U	5	U	1.3	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	28	U	250	U	250	U	28	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U			0.5	U	0.5	U	-		0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U			2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	1.1	U	5	U	5	U	1.1	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	-		2	U	2	U	-		2	U	2	U
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	4.4	U	5	U	5	U	4.4	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-209		MW-210		MW-210		MW-210		MW-211		MW-211		MW-211		MW-213	
SAMPLING DATE				4/28/2021		3/6/2020		9/3/2020		4/29/2021		3/6/2020		9/3/2020		4/28/2021		3/4/2020	
LAB SAMPLE ID				L2121852-03		L2010346-06		460-217659-3		L2122071-01		L2010346-04		460-217659-4		L2121852-04		L2009793-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	0.4	U	2.5	U	2.5	U	0.4	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	-		5	U	5	U	-		5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	0.17	U	1	U	1	U	0.17	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	0.82	U	5	U	5	U	0.82	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	0.54	U	2	U	2	U	0.54	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	0.32	U	2.5	U	**71**	
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	0.31	U	5	U	5	U	0.31	U	5	U	**74**	
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	0.35	U	1	U	1	U	0.35	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	1.9	U	5	U	5	U	1.9	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U			2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	-		2	U	2	U	-		2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-213		MW-214		MW-214		MW-214		MW-216		MW-216		MW-216		MW-217	
SAMPLING DATE				4/27/2021		3/4/2020		9/3/2020		4/27/2021		3/6/2020		9/3/2020		4/28/2021		3/6/2020	
LAB SAMPLE ID				L2121570-02		L2009793-02		460-217659-5		L2121570-01		L2010346-01		460-217659-6		L2121852-05		L2010346-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																			
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U	0.42	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U	0.22	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U	0.49	U	0.5	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
p-Diethylbenzene	105-05-5		ug/l	2	U	2	U	-		2	U	2	U	-		2	U	2	U
p-Chlorotoluene	106-43-4	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	0.5	U	2	U	2	U	0.5	U	2	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.43	U *	0.5	U	0.5	U	0.43	U *	0.5	U	0.5	U
Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	-		5	U	5	U	-		5	U	5	U
Vinyl acetate	108-05-4		ug/l	5	U	5	U	-		5	U	5	U	-		5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	1.3	U	5	U	5	U	1.3	U	5	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Bromobenzene	108-86-1	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U			2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U	0.37	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	28	U	250	U	250	U	28	U	250	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U	0.28	U	0.5	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U	0.25	U	0.5	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U	0.22	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U	0.47	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U	0.3	U	2.5	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	0.5	U	0.5	U	-		0.5	U	0.5	U	-		0.5	U	0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U	0.21	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U			2.5	U	2.5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	1.1	U	5	U	5	U	1.1	U	5	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Ethyl ether	60-29-7		ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
p-Ethyltoluene	622-96-8		ug/l	2	U	2	U	-		2	U	2	U	-		2	U	2	U
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	4.4	U	5	U	5	U	4.4	U	5	U	5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U	0.33	U	2.5	U	2.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U	0.2	U	0.5	U	0.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-213		MW-214		MW-214		MW-214		MW-216		MW-216		MW-216		MW-217	
SAMPLING DATE				4/27/2021		3/4/2020		9/3/2020		4/27/2021		3/6/2020		9/3/2020		4/28/2021		3/6/2020	
LAB SAMPLE ID				L2121570-02		L2009793-02		460-217659-5		L2121570-01		L2010346-01		460-217659-6		L2121852-05		L2010346-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U	0.24	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U	0.55	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	0.4	U	2.5	U	2.5	U	0.4	U	2.5	U	2.5	U
Dibromomethane	74-95-3	5	ug/l	5	U	5	U	-		5	U	5	U	-		5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U	0.41	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	0.17	U	1	U	1	U	0.17	U	1	U	1	U
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U	0.32	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	0.82	U	5	U	5	U	0.82	U	5	U	5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U	0.54	U	2	U	2	U	0.54	U	2	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U	0.34	U	0.5	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U	0.26	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U	0.26	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	**52**		**10**		**5.1**		**5.4**		**48**		**6.9**		**29**		**22**	
Dichlorodifluoromethane	75-71-8	5	ug/l	**54**		**27**		**16**		**21**		**15**		**3.9**		**11**		5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U	1	U	0.35	U	1	U	1	U	0.35	U	1	U	1	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	1.9	U	5	U	5	U	1.9	U	5	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U	0.43	U	1.5	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U	0.31	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U	0.37	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Naphthalene	91-20-3	10	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U	0.36	U	2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U			2.5	U	2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U	0.43	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	-		2	U	2	U	-		2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U	0.38	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U	0.34	U	2.5	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	2.5	U	2.5	U	-		2.5	U	2.5	U	-		2.5	U	2.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-217		MW-217	
SAMPLING DATE				9/3/2020		4/28/2021	
LAB SAMPLE ID				460-217659-7		L2121852-06	
SAMPLE TYPE				WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual
Volatile Organics by GC/MS							
Ethylbenzene	100-41-4	5	ug/l	0.3	U	2.5	U
Styrene	100-42-5	5	ug/l	0.42	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.22	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.49	U	0.5	U
n-Propylbenzene	103-65-1	5	ug/l	-		2.5	U
n-Butylbenzene	104-51-8	5	ug/l	-		2.5	U
p-Diethylbenzene	105-05-5		ug/l	-		2	U
p-Chlorotoluene	106-43-4	5	ug/l	-		2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	0.33	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	0.5	U	2	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.43	U *	0.5	U
Acrylonitrile	107-13-1	5	ug/l	-		5	U
Vinyl acetate	108-05-4		ug/l	-		5	U
4-Methyl-2-pentanone	108-10-1		ug/l	1.3	U	5	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/l	-		2.5	U
Bromobenzene	108-86-1	5	ug/l	-		2.5	U
Toluene	108-88-3	5	ug/l	0.38	U	2.5	U
Chlorobenzene	108-90-7	5	ug/l	0.38	U	2.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/l	-		2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	0.37	U	2.5	U
1,4-Dioxane	123-91-1		ug/l	28	U	250	U
Dibromochloromethane	124-48-1	50	ug/l	0.28	U	0.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.25	U	0.5	U
Xylenes, Total	1330-20-7		ug/l	-		2.5	U
sec-Butylbenzene	135-98-8	5	ug/l	-		2.5	U
1,3-Dichloropropane	142-28-9	5	ug/l	-		2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	0.22	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	0.24	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	0.47	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	0.3	U	2.5	U
1,2-Dichloroethene, Total	540-59-0		ug/l	-		2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	0.34	U	2.5	U
1,3-Dichloropropene, Total	542-75-6		ug/l	-		0.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.21	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/l	-		2.5	U
2-Hexanone	591-78-6	50	ug/l	1.1	U	5	U
2,2-Dichloropropane	594-20-7	5	ug/l	-		2.5	U
Ethyl ether	60-29-7		ug/l	-		2.5	U
p-Ethyltoluene	622-96-8		ug/l	-		2	U
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	-		2.5	U
Acetone	67-64-1	50	ug/l	4.4	U	5	U
Chloroform	67-66-3	7	ug/l	0.33	U	2.5	U
Benzene	71-43-2	1	ug/l	0.2	U	0.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-217		MW-217	
SAMPLING DATE				9/3/2020		4/28/2021	
LAB SAMPLE ID				460-217659-7		L2121852-06	
SAMPLE TYPE				WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual
1,1,1-Trichloroethane	71-55-6	5	ug/l	0.24	U	2.5	U
Bromomethane	74-83-9	5	ug/l	0.55	U	2.5	U
Chloromethane	74-87-3		ug/l	0.4	U	2.5	U
Dibromomethane	74-95-3	5	ug/l			5	U
Bromochloromethane	74-97-5	5	ug/l	0.41	U	2.5	U
Chloroethane	75-00-3	5	ug/l	0.32	U	2.5	U
Vinyl chloride	75-01-4	2	ug/l	0.17	U	1	U
Methylene chloride	75-09-2	5	ug/l	0.32	U	2.5	U
Carbon disulfide	75-15-0	60	ug/l	0.82	U	5	U
Bromoform	75-25-2	50	ug/l	0.54	U	2	U
Bromodichloromethane	75-27-4	50	ug/l	0.34	U	0.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	0.26	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.26	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	**5.6**		**47**	
Dichlorodifluoromethane	75-71-8	5	ug/l	0.31	U	5	U
1,2-Dichloropropane	78-87-5	1	ug/l	0.35	U	1	U
2-Butanone	78-93-3	50	ug/l	1.9	U	5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	0.43	U	1.5	U
Trichloroethene	79-01-6	5	ug/l	0.31	U	0.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.37	U	0.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	0.36	U	2.5	U
Hexachlorobutadiene	87-68-3	0.5	ug/l	-		2.5	U
Naphthalene	91-20-3	10	ug/l	-		2.5	U
o-Xylene	95-47-6	5	ug/l	0.36	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/l	-		2.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	0.43	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	-		2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	-		2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	0.38	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	-		2.5	U
tert-Butylbenzene	98-06-6	5	ug/l	-		2.5	U
Isopropylbenzene	98-82-8	5	ug/l	0.34	U	2.5	U
p-Isopropyltoluene	99-87-6	5	ug/l	-		2.5	U

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-201		MW-201		MW-201		MW-203		MW-203		MW-203		MW-204	
SAMPLING DATE				3/6/2020		9/3/2020		4/28/2021		3/5/2020		9/2/2020		4/28/2021		3/5/2020	
LAB SAMPLE ID				L2010346-05		460-217659-1		L2121852-01		L2010093-01		460-217547-1		L2121852-02		L2010093-02	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	10	ng/l	1.98	U	**0.57**	**J**	2.04	U	**27.9**		**25**		**14.5**		**5.05**	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.98	U	1.04	U	2.04	U	**0.288**	**J**	1.1	U	1.82	U	2.04	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.98	U	2.92	U	2.04	U	2.14	U	3.1	U	1.82	U	2.04	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	**0.454**	**J**	0.46	U	**0.514**	**J**	**1.62**	**J**	**1.71**	**J**	**0.564**	**J**	**0.812**	**J**
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	1.98	U	11	**J**	2.04	U	2.14	U	**11.1**	**J**	**2.13**		2.04	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.98	U	1.79	U	2.04	U	**2.34**		**5.65**	**J**	**3.14**		2.04	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	**0.565**	**J**	0.55	U	**0.518**	**J**	**2.13**	**J**	**2.03**		**0.778**	**J**	**0.837**	**J**
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.98	U	0.52	U	2.04	U	**1.32**	**J**	0.55	U	1.82	U	**0.588**	**J**
Perfluorooctanoic Acid (PFOA)	335-67-1	10	ng/l	**0.553**	**J**	0.8	U	**0.486**	**J**	**6**		**5.15**		**3.26**		**2.22**	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	1.98	U	0.29	U	2.04	U	**0.464**	**J**	**0.35**	**J**	1.82	U	2.04	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.98	U	0.3	U	2.04	U	2.14	U	0.32	U	1.82	U	2.04	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	1.98	U	**0.33**	**J B**	2.04	U	**0.914**	**J**	**1.47**	**J B**	**0.789**	**J**	2.04	U
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	1.98	U	**0.51**	**J B**	2.04	U	**2.79**		**2.13**	**B**	**0.869**	**J**	**0.971**	**J**
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	1.98	U	0.19	U	2.04	U	**1.23**	**J**	0.2	U	1.82	U	**0.249**	**J**
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	1.98	U	0.24	U	2.04	U	**1.77**	**J**	**1.57**	**J**	**0.629**	**J**	**0.563**	**J**
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.98	U	0.18	U	2.04	U	2.14	U	0.19	U	1.82	U	2.04	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	1.98	U	0.25	U	2.04	U	**0.802**	**J**	**0.76**	**J**	0.32	**J**	2.04	U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.98	U	0.27	U	2.04	U	**3.92**		0.29	U	1.82	U	**1.66**	**J**
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.98	U	1.88	U	2.04	U	2.14	U	2	U	1.82	U	2.04	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.98	U	1.22	U	2.04	U	**0.768**	**J**	1.3	U	1.82	U	**0.384**	**J**
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.98	U	0.33	U	2.04	U	**0.978**	**J**	**2.31**	**B**	**0.989**	**JF**	2.04	U
PFOA/PFOS, Total		500	ng/l	**0.553**	**J**	**12.41**		**0.486**	**J**	**33.9**		59.23		**17.8**		**7.27**	

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-204		MW-204		MW-205		MW-205		MW-205		MW-206		MW-206	
SAMPLING DATE				9/2/2020		4/27/2021		3/5/2020		9/2/2020		4/27/2021		3/5/2020		9/2/2020	
LAB SAMPLE ID				460-217547-4		L2121570-05		L2010093-03		460-217547-3		L2121570-06		L2010093-04		460-217547-4	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	10	ng/l	**12.1**		**4.41**		**2.13**		**0.93**	**J**	**0.583**	**J**	**47.9**		**38.7**	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.08	U	1.93	U	1.9	U	1.09	U	1.87	U	1.91	U	0.97	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	3.03	U	1.93	U	1.9	U	3.08	U	1.87	U	1.91	U	2.73	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	**1.26**	**J**	**0.701**	**J**	**0.646**	**J**	0.49	U	1.87	U	**4.08**		**1.83**	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	**2.02**	**J**	1.93	U	1.9	U	1.99	U	1.87	U	1.91	U	**2.24**	**J**
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.86	U	1.93	U	1.9	U	1.89	U	1.87	U	1.91	U	1.67	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	**1.14**	**J**	**0.744**	**J**	**0.597**	**J**	0.58	U	**0.478**	**J**	**5.43**		**2.28**	
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	0.54	U	1.93	U	1.9	U	0.55	U	1.87	U	1.91	U	0.48	U
Perfluorooctanoic Acid (PFOA)	335-67-1	10	ng/l	**3.94**		**1.53**	**J**	**2.19**		0.84	U	**0.62**	**J**	**25.5**		**12.1**	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	0.3	U	1.93	U	1.9	U	0.31	U	1.87	U	**0.561**	**J**	**0.45**	**J**
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	0.31	U	1.93	U	1.9	U	0.32	U	1.87	U	1.91	U	0.28	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	**1.08**	**J B**	1.93	U	1.9	U	**0.44**	**J B**	1.87	U	**2.91**		**1.93**	**B**
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	**3.11**	**B**	**0.724**	**J**	**0.597**	**J**	**0.59**	**J B**	1.87	U	**9.62**		**5.79**	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	**0.64**	**J**	1.93	U	1.9	U	**0.2**	**J**	1.87	U	**2.22**		**1.06**	**J**
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	**1.02**	**J**	**0.389**	**J**	**0.414**	**J**	0.25	U	1.87	U	**5.37**		**2.47**	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	0.19	U	1.93	U	1.9	U	0.19	U	1.87	U	**0.809**	**J**	**0.43**	**J**
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	**0.46**	**J**	1.93	U	**0.3**	**J**	0.27	U	1.87	U	**1.29**	**J**	**0.75**	**J**
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	0.28	U	1.93	U	**1.13**	**J**	0.29	U	1.87	U	**0.802**	**J**	0.26	**U**
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.96	U	1.93	U	1.9	U	1.99	U	1.87	U	1.91	U	1.76	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.27	U	1.93	U	1.9	U	1.29	U	1.87	U	1.91	U	1.15	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	**0.57**	**J B**	1.93	U	1.9	U	0.35	U	1.87	U	1.91	U	**0.66**	**J**
PFOA/PFOS, Total		500	ng/l	27.34		**5.94**	**J**	**4.32**		2.16		**1.2**	**J**	**73.4**		**70.69**	

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-206		MW-207		MW-207		MW-207		MW-208		MW-209		MW-209	
SAMPLING DATE				4/27/2021		3/5/2020		9/3/2020		4/27/2021		3/5/2020		3/6/2020		4/28/2021	
LAB SAMPLE ID				L2121570-04		L2010093-06		460-217659-2		L2121570-03		L2010093-05		L2010346-03		L2121852-03	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	10	ng/l	**30.9**		**11.3**		**22.1**		**8.36**		**68.2**		**1.18**	**J**	**2.44**	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.94	U	2.09	U	1.03	U	2.14	U	**0.792**	**J**	2.3	U	2.04	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.94	U	2.09	U	2.91	U	2.14	U	**8.18**		2.3	U	2.04	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	**4.2**		**1.62**	**J**	**0.79**	**J**	**0.476**	**J**	**6.12**		**2.77**		**2.11**	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	1.94	U	2.09	U	1.87	U	2.14	U	**1.87**	**J**	2.3	U	**8.87**	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.94	U	2.09	U	1.78	U	2.14	U	**9.71**		**1.26**	**J**	2.04	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	**5.8**		**1.61**	**J**	**0.91**	**J**	**0.66**	**J**	**8.38**		**2.74**		**1.84**	**J**
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.94	U	2.09	U	0.52	U	2.14	U	**0.518**	**J**	2.3	U	2.04	U
Perfluorooctanoic Acid (PFOA)	335-67-1	10	ng/l	**26**		**6.59**		**5.46**		**2.2**		**38.2**		**5.16**		**4.08**	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	**0.307**	**J**	2.09	U	**0.39**	**J**	2.14	U	**3.69**		2.3	U	2.04	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.94	U	2.09	U	0.3	U	2.14	U	1.96	U	2.3	U	2.04	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	**4.42**		**1.15**	**J**	**1.92**	**B**	**0.472**	**J**	**6.24**		2.3	U	**0.506**	**JF**
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	**13.1**		**1.94**	**J**	**1.93**	**B**	**0.497**	**J**	**10.3**		**6.63**		**3.22**	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	**2.68**		**0.749**	**J**	**0.76**	**J**	**0.304**	**J**	**2.4**		**1.36**	**J**	**0.669**	**J**
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	**6.84**		**1.35**	**J**	**0.94**	**J**	**0.506**	**J**	**6.38**		**3.04**		**1.63**	**J**
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.94	U	2.09	U	**0.37**	J	2.14	U	**1.01**	**J**	2.3	U	2.04	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	**1.01**	**J**	**0.644**	**J**	**0.61**	**J**	**0.467**	**J**	**2.58**		**1.39**	**J**	**1.4**	**J**
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.94	U	**0.561**	**J**	0.27	U	2.14	U	**0.69**	**J**	**0.618**	**J**	2.04	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.94	U	2.09	U	1.87	U	2.14	U	1.96	U	2.3	U	2.04	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.94	U	2.09	U	1.22	U	2.14	U	1.96	U	2.3	U	2.04	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	1.94	U	2.09	U	0.33	U	2.14	U	**16.2**		2.3	U	2.04	U
PFOA/PFOS, Total		500	ng/l	**56.9**		**17.9**		**36.18**		**10.6**		**106**		**6.34**	**J**	**6.52**	

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-210		MW-210		MW-210		MW-211		MW-211		MW-211		MW-213	
SAMPLING DATE				3/6/2020		9/3/2020		4/29/2021		3/6/2020		9/3/2020		4/28/2021		3/4/2020	
LAB SAMPLE ID				L2010346-06		460-217659-3		L2122071-01		L2010346-04		460-217659-4		L2121852-04		L2009793-01	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	10	ng/l	**6.43**		**3.56**	**cn**	**7.25**		2.27	U	**1.75**	**J**	**1.58**	**J**	73.4	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	2.3	U	1.11	U	1.75	U	2.27	U	1.1	U	2.04	U	1.92	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	2.3	U	3.11	U	1.75	U	2.27	U	3.09	U	2.04	U	1.92	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	**0.885**	**J**	**0.6**	**J**	**1.48**	**J**	**0.609**	**J**	0.49	U	**0.551**	**J**	**9**	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	2.3	U	2.01	U	1.75	U	2.27	U	**5.28**	**J**	**1.84**	**J**	1.92	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	2.3	U	1.91	U	1.75	U	2.27	U	1.89	U	2.04	U	**1.19**	**J**
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	**1.21**	**J**	0.58	U	**1.8**		**0.432**	**J**	0.58	U	**0.555**	**J**	**11**	
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	2.3	U	0.55	U	1.75	U	2.27	U	0.55	U	2.04	U	1.92	U
Perfluorooctanoic Acid (PFOA)	335-67-1	10	ng/l	**2.91**		**2.32**		**4.74**		**0.941**	**J**	**0.87**	**J**	**0.939**	**J**	32.8	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	2.3	U	0.31	U	1.75	U	2.27	U	0.31	U	2.04	U	**1.88**	**J**
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	2.3	U	0.32	U	1.75	U	2.27	U	0.32	U	2.04	U	1.92	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	**1.1**	**J**	**1.02**	**J B**	**1.62**	**J**	2.27	U	**0.56**	**J B**	2.04	U	**5.37**	
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	**1.59**	**J**	**1.54**	**J B**	**14**		2.27	U	**0.72**	**J B**	**0.482**	**J**	**12.8**	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	**0.922**	**J**	**1.1**	**J**	**1.17**	**J**	2.27	U	0.2	U	2.04	U	**2.97**	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	**0.857**	**J**	**0.73**	**J**	**1.12**	**J**	2.27	U	0.25	U	2.04	U	**8.1**	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	2.3	U	0.19	U	1.75	U	2.27	U	0.19	U	2.04	U	**1.06**	**J**
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	2.3	U	0.27	U	1.75	U	2.27	U	0.27	U	2.04	U	**3.45**	
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	2.3	U	0.29	U	1.75	U	2.27	U	**0.41**	**J**	2.04	U	1.92	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	2.3	U	2.01	U	1.75	U	2.27	U	1.99	U	2.04	U	1.92	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	2.3	U	1.31	U	1.75	U	2.27	U	1.3	U	2.04	U	1.92	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	2.3	U	**0.36**	**J**	1.75	U	2.27	U	**0.35**	**J**	2.04	U	**1.42**	**J**
PFOA/PFOS, Total		500	ng/l	**9.34**		**11.23**		**12**		**0.941**	**J**	**9.94**		**2.52**	**J**	**106**	

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-213		MW-213		MW-214		MW-214		MW-214		MW-216		MW-216	
SAMPLING DATE				9/2/2020		4/27/2021		3/4/2020		9/3/2020		4/27/2021		3/6/2020		9/3/2020	
LAB SAMPLE ID				460-217547-5		L2121570-02		L2009793-02		460-217659-5		L2121570-01		L2010346-01		460-217659-6	
SAMPLE TYPE				WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution																	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	10	ng/l	**60.7**		**70**		**47.3**		**46.6**		**40.3**		**6.51**		**24.8**	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.04	U	1.97	U	**0.26**	**J**	1.14	U	2.01	U	1.93	U	1.01	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	2.92	U	1.97	U	1.94	U	3.21	U	2.01	U	1.93	U	2.84	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	**7.81**		**8.53**		**5.47**		**4.5**		**6.97**	**F**	**2.06**		**2.52**	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	**2.14**	**J**	1.97	U	1.94	U	2.07	U	2.01	U	1.93	U	1.83	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	1.79	U	1.97	U	1.94	U	1.97	U	2.01	U	1.93	U	1.74	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	**8.64**		**9.6**		**8.26**		**6.65**		**9.42**		**2.95**		**2.62**	
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	0.52	U	1.97	U	1.94	U	0.57	U	2.01	U	1.93	U	0.5	U
Perfluorooctanoic Acid (PFOA)	335-67-1	10	ng/l	**26.5**		**27.7**		**29.9**		**25.8**		**29.5**		**8.18**		**9.39**	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	**1.61**	**J**	**1.4**	**J**	**0.849**	**J**	**1.42**	**J**	**0.631**	**JF**	1.93	U	**0.34**	**J**
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	0.3	U	1.97	U	1.94	U	0.33	U	2.01	U	1.93	U	0.29	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	**4.94**	**B**	**6.29**		**8.26**		**5.44**	**B**	**6.66**		**1.8**	**J**	**2.96**	**B**
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	**12.4**	**B**	**12.8**		**10.9**		**9.76**	**B**	**10.1**		**4.28**		**4.37**	**B**
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	**2.27**		**2.92**		**3.88**		**3.32**		**3.02**		**1.35**	**J**	**1.19**	**J**
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	**6.13**		**6.7**		**6.07**		**5.08**		**6.64**		**2.12**		**1.88**	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	**0.79**	**J**	**1.22**	**J**	**1.64**	**J**	**0.75**	**J**	**1.35**	**J**	1.93	U	0.17	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	**2.51**		**2.67**		**1.08**	**J**	**1.41**	**J**	**1.29**	**J**	**0.402**	**J**	**0.73**	**J**
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	0.27	U	1.97	U	1.94	U	0.3	U	2.01	U	**0.259**	**J**	0.27	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.88	U	1.97	U	1.94	U	2.07	U	2.01	U	1.93	U	1.83	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.22	U	1.97	U	1.94	U	1.35	U	2.01	U	1.93	U	1.19	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	**1.76**	**J B**	**1.27**	JF	1.94	U	**2.04**	**J**	**0.8**	**JF**	1.93	U	**1.06**	**J**
PFOA/PFOS, Total		500	ng/l	138.2		**97.7**		**77.2**		**112.77**		**69.8**		**14.7**		**51.86**	

TABLE 3.1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION				MW-216		MW-217		MW-217		MW-217	
SAMPLING DATE				4/28/2021		3/6/2020		9/3/2020		4/28/2021	
LAB SAMPLE ID				L2121852-05		L2010346-02		460-217659-7		L2121852-06	
SAMPLE TYPE				WATER		WATER		WATER		WATER	
	CasNum	NY-AWQS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by Isotope Dilution											
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	10	ng/l	**24.9**		**30**		**42.1**		**19.5**	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	100	ng/l	1.8	U	1.94	U	1.03	U	1.77	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	100	ng/l	1.8	U	1.94	U	2.91	U	1.77	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	100	ng/l	**2.4**		**2.11**		**1.57**	**J**	**2.18**	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	100	ng/l	**2.29**		1.94	U	**4.04**	**J**	**1.36**	**J**
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	100	ng/l	**0.744**	**J**	1.94	U	1.79	U	1.77	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	100	ng/l	**3.06**		**3.4**		**2.59**		**3.86**	
Perfluorododecanoic Acid (PFDoA)	307-55-1	100	ng/l	1.8	U	1.94	U	0.52	U	1.77	U
Perfluorooctanoic Acid (PFOA)	335-67-1	10	ng/l	**10.8**		**15.7**		**13.8**		**14.6**	
Perfluorodecanoic Acid (PFDA)	335-76-2	100	ng/l	**0.375**	**JF**	**0.473**	**J**	**0.71**	**J**	1.77	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	100	ng/l	1.8	U	1.94	U	0.3	U	1.77	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	100	ng/l	**3.56**		**7.38**		**4.48**	**B**	**5.7**	
Perfluorobutanoic Acid (PFBA)	375-22-4	100	ng/l	**5.08**		**4.31**		**3.68**	**B**	**3.66**	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	100	ng/l	**1.3**	**J**	**2.93**		**2.13**		**2.75**	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	100	ng/l	**2.39**		**2.66**		**2.07**		**2.74**	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	100	ng/l	1.8	U	**0.752**	**J**	**0.61**	**J**	1.77	U
Perfluorononanoic Acid (PFNA)	375-95-1	100	ng/l	**0.859**	**J**	**1.08**	**J**	**1.51**	**J**	**0.496**	**J**
Perfluorotetradecanoic Acid (PFTA)	376-06-7	100	ng/l	1.8	U	1.94	U	0.27	U	1.77	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	100	ng/l	1.8	U	1.94	U	1.88	U	1.77	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	100	ng/l	1.8	U	1.94	U	1.22	U	1.77	U
Perfluorooctanesulfonamide (FOSA)	754-91-6	100	ng/l	**0.664**	**J**	1.94	U	**1.21**	**J**	1.77	U
PFOA/PFOS, Total		500	ng/l	**35.7**		**45.7**		**80.5**		**34.1**	

Qualifier Key
NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
I - The lower value for the two columns has been reported due to obvious interference.
G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
RE - Analytical results are from sample re-extraction.
R - Analytical results are from sample re-analysis.
D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
P - The RPD between the results for the two columns exceeds the method-specified criteria.
U - Not detected at the reported detection limit for the sample.
M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
S - Analytical results are from modified screening analysis.
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
* : LCS or LCSD is outside acceptance limits.
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
Compound Exceeds the NY-AWQS

TABLE 3.4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION			SMPV-1		SMPV-1		SMPV-2		SMPV-2		SMPV-3		SMPV-3		SMPV-10		SMPV-10	
SAMPLING DATE			3/6/2020		4/29/2021		3/6/2020		4/29/2021		3/6/2020		4/29/2021		3/6/2020		4/28/2021	
LAB SAMPLE ID			L2010375-03		L2122115-01		L2010375-05		L2122115-02		L2010375-04		L2122115-03		L2010375-07		L2122189-02	
SAMPLE TYPE			SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR	
SAMPLE DEPTH (ft.)																		
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air																		
Ethylbenzene	100-41-4	ug/m3	**1.8**		**3.44**		0.869	U	**6.34**		0.869	U	**2.99**		**2.9**		**1.39**	
Styrene	100-42-5	ug/m3	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.869	
Benzyl chloride	100-44-7	ug/m3	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
cis-1,3-Dichloropropene	10061-01-5	ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
trans-1,3-Dichloropropene	10061-02-6	ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,4-Dichlorobenzene	106-46-7	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dibromoethane	106-93-4	ug/m3	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U
1,3-Butadiene	106-99-0	ug/m3	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U	0.442	U
3-Chloropropene	107-05-1	ug/m3	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
1,2-Dichloroethane	107-06-2	ug/m3	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
4-Methyl-2-pentanone	108-10-1	ug/m3	2.05	U	**12**		2.05	U	**14.5**		2.05	U	**11.1**		2.05	U	**2.83**	
1,3,5-Trimethylbenzene	108-67-8	ug/m3	0.983	U	**2.05**		0.983	U	**2.69**		0.983	U	**3.44**		**1.67**		0.983	U
Toluene	108-88-3	ug/m3	**5.35**		**7.65**		0.754	U	**17.3**		0.754	U	**6.26**		**8.37**		**29.8**	
Chlorobenzene	108-90-7	ug/m3	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U
Tetrahydrofuran	109-99-9	ug/m3	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U
n-Hexane	110-54-3	ug/m3	**1.65**		0.705	U	0.705	U	**0.758**		0.705	U	0.705	U	**1.2**		**7.96**	
Cyclohexane	110-82-7	ug/m3	**0.926**		0.688	U	0.688	U	**0.792**		0.688	U	0.688	U	0.688	U	0.688	U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U
1,4-Dioxane	123-91-1	ug/m3	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Dibromochloromethane	124-48-1	ug/m3	1.7	U	**1.7**	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Tetrachloroethene	127-18-4	ug/m3	**9.36**		1.36	U	1.36	U	1.36	U	1.36	U	1.36	U	**14.2**		1.36	U
Ethyl Acetate	141-78-6	ug/m3	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	**94.8**	
Heptane	142-82-5	ug/m3	**1.38**		**1.07**		0.82	U	**2.39**		0.82	U	**1.11**		**1.36**		**1.79**	
cis-1,2-Dichloroethene	156-59-2	ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
trans-1,2-Dichloroethene	156-60-5	ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Methyl tert butyl ether	1634-04-4	ug/m3	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
p/m-Xylene	179601-23-1	ug/m3	**7.21**		**13**		1.74	U	**23.7**		1.74	U	**14.3**		**11.4**		**6.47**	
2,2,4-Trimethylpentane	540-84-1	ug/m3	0.934	U	**1.65**		0.934	U	**2.56**		0.934	U	**1.55**		0.934	U	0.934	U
1,3-Dichlorobenzene	541-73-1	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	**1.69**		1.2	U	**1.32**	
Carbon tetrachloride	56-23-5	ug/m3	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U
2-Hexanone	591-78-6	ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
Vinyl bromide	593-60-2	ug/m3	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
4-Ethyltoluene	622-96-8	ug/m3	**0.998**		**1.32**		0.983	U	**2.02**		0.983	U	**2.07**		**1.51**		0.983	U
Ethanol	64-17-5	ug/m3	9.42	U	**77.6**		9.42	U	**119**		9.42	U	**71.6**		9.42	U	**38.8**	
Isopropanol	67-63-0	ug/m3	**3.07**		**1.74**		1.23	U	**1.6**		1.23	U	**1.23**		1.23	U	**32.4**	
Acetone	67-64-1	ug/m3	**9.29**		**35.2**		**4.25**		**28**		**4.85**		**33.5**		**10.7**		**91**	
Chloroform	67-66-3	ug/m3	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U
Benzene	71-43-2	ug/m3	**0.811**		**2.37**		0.639	U	**1.52**		0.639	U	**2.87**		**1.09**		**1.9**	
1,1,1-Trichloroethane	71-55-6	ug/m3	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Bromomethane	74-83-9	ug/m3	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U
Chloromethane	74-87-3	ug/m3	0.413	U	0.413	U	**0.997**		0.413	U	**1.11**		**1.29**		**0.537**		**0.541**	
Chloroethane	75-00-3	ug/m3	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U

TABLE 3.4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION			SMPV-1		SMPV-1		SMPV-2		SMPV-2		SMPV-3		SMPV-3		SMPV-10		SMPV-10	
SAMPLING DATE			3/6/2020		4/29/2021		3/6/2020		4/29/2021		3/6/2020		4/29/2021		3/6/2020		4/28/2021	
LAB SAMPLE ID			L2010375-03		L2122115-01		L2010375-05		L2122115-02		L2010375-04		L2122115-03		L2010375-07		L2122189-02	
SAMPLE TYPE			SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR	
SAMPLE DEPTH (ft.)																		
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Vinyl chloride	75-01-4	ug/m3	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U
Methylene chloride	75-09-2	ug/m3	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U
Carbon disulfide	75-15-0	ug/m3	**2.73**		0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U	0.623	U
Bromoform	75-25-2	ug/m3	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U
Bromodichloromethane	75-27-4	ug/m3	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U
1,1-Dichloroethane	75-34-3	ug/m3	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
1,1-Dichloroethene	75-35-4	ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Tertiary butyl Alcohol	75-65-0	ug/m3	1.52	U	**4.49**		1.52	U	**2.15**		1.52	U	**4.52**		1.52	U	**18.9**	
Trichlorofluoromethane	75-69-4	ug/m3	**4.24**		**2.56**		1.12	U	**21.5**		**3.2**		**1.21**		**111**		**21.5**	
Dichlorodifluoromethane	75-71-8	ug/m3	**3.21**		**2.36**		**2.16**		**2.52**		**4.84**		**2.34**		**73.2**		**8.41**	
Freon-113	76-13-1	ug/m3	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U
Freon-114	76-14-2	ug/m3	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
1,2-Dichloropropane	78-87-5	ug/m3	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U
2-Butanone	78-93-3	ug/m3	**2.98**		**2.07**		1.47	U	**1.63**		1.47	U	**2.4**		**1.83**		**4.75**	
1,1,2-Trichloroethane	79-00-5	ug/m3	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Trichloroethene	79-01-6	ug/m3	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U
Hexachlorobutadiene	87-68-3	ug/m3	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U
o-Xylene	95-47-6	ug/m3	**2.64**		**5.47**		0.869	U	**8.9**		0.869	U	**5.78**		**4.34**		**3.34**	
1,2-Dichlorobenzene	95-50-1	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	**3.95**		**6.59**		0.983	U	**8.65**		0.983	U	**9.14**		**6.34**		0.983	U

TABLE 3.4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION			SMPV-11		SMPV-11		SMPV-12		SMPV-13		SMPV-13		SMPV-14		SMPV-14	
SAMPLING DATE			3/6/2020		4/28/2021		3/6/2020		3/6/2020		4/28/2021		3/6/2020		4/28/2021	
LAB SAMPLE ID			L2010375-08		L2122189-03		L2010375-06		L2010375-02		L2122189-04		L2010375-01		L2122189-01	
SAMPLE TYPE			SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR	
SAMPLE DEPTH (ft.)																
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air																
Ethylbenzene	100-41-4	ug/m3	0.869	U	**1.6**		0.869	U	0.869	U	0.869	U	**2.68**		0.869	U
Styrene	100-42-5	ug/m3	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U	0.852	U
Benzyl chloride	100-44-7	ug/m3	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
cis-1,3-Dichloropropene	10061-01-5	ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
trans-1,3-Dichloropropene	10061-02-6	ug/m3	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,4-Dichlorobenzene	106-46-7	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dibromoethane	106-93-4	ug/m3	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U
1,3-Butadiene	106-99-0	ug/m3	0.442	U	0.442	U	0.442	U	0.878		0.442	U	0.442	U	0.442	U
3-Chloropropene	107-05-1	ug/m3	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
1,2-Dichloroethane	107-06-2	ug/m3	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
4-Methyl-2-pentanone	108-10-1	ug/m3	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U	2.05	U
1,3,5-Trimethylbenzene	108-67-8	ug/m3	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	**1.23**		0.983	U
Toluene	108-88-3	ug/m3	0.754	U	**13.8**		0.754	U	0.837		**2.69**		**7.91**		**1.09**	
Chlorobenzene	108-90-7	ug/m3	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U
Tetrahydrofuran	109-99-9	ug/m3	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U	1.47	U
n-Hexane	110-54-3	ug/m3	**1.09**		**2.22**		0.705	U	0.705		0.705	U	**1.71**		0.705	U
Cyclohexane	110-82-7	ug/m3	**0.998**		**1.92**		0.688	U	0.688	U	0.688	U	0.688	U	0.688	U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U
1,4-Dioxane	123-91-1	ug/m3	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Dibromochloromethane	124-48-1	ug/m3	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Tetrachloroethene	127-18-4	ug/m3	1.36	U	1.36	U	1.36	U	1.36	U	**1.45**		**12**		1.36	U
Ethyl Acetate	141-78-6	ug/m3	1.8	U	**26.4**		1.8	U	1.8	U	**9.3**		1.8	U	**5.19**	
Heptane	142-82-5	ug/m3	0.82	U	**1.47**		0.82	U	0.82	U	0.82	U	**1.76**		0.82	U
cis-1,2-Dichloroethene	156-59-2	ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
trans-1,2-Dichloroethene	156-60-5	ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Methyl tert butyl ether	1634-04-4	ug/m3	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
p/m-Xylene	179601-23-1	ug/m3	1.74	U	**6.99**		1.74	U	1.74	U	**2.07**		**9.64**		1.74	U
2,2,4-Trimethylpentane	540-84-1	ug/m3	0.934	U	**3.46**		0.934	U	0.934	U	0.934	U	0.934	U	0.934	U
1,3-Dichlorobenzene	541-73-1	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	**2.09**		1.2	U	**1.93**	
Carbon tetrachloride	56-23-5	ug/m3	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U
2-Hexanone	591-78-6	ug/m3	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
Vinyl bromide	593-60-2	ug/m3	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
4-Ethyltoluene	622-96-8	ug/m3	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	**1.09**		0.983	U
Ethanol	64-17-5	ug/m3	9.42	U	**23.2**		9.42	U	9.42	U	**10.2**		**11.2**		9.42	U
Isopropanol	67-63-0	ug/m3	1.23	U	**9**		1.23	U	1.99		**4.4**		**3.22**		**2.88**	
Acetone	67-64-1	ug/m3	**4.58**		**27.3**		3.87		5.7		25.2		**13.7**		**21.1**	
Chloroform	67-66-3	ug/m3	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U	0.977	U
Benzene	71-43-2	ug/m3	**0.652**		**2.87**		0.639	U	0.639	U	**1.38**		**1.51**		**0.834**	
1,1,1-Trichloroethane	71-55-6	ug/m3	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Bromomethane	74-83-9	ug/m3	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U
Chloromethane	74-87-3	ug/m3	**1.08**		0.413	U	1.07		1.08		0.413	U	0.413	U	0.413	U
Chloroethane	75-00-3	ug/m3	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U

TABLE 3.4
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
FORMER GROSSINERS RESORT, LIBERTY NEW YORK

LOCATION			SMPV-11		SMPV-11		SMPV-12		SMPV-13		SMPV-13		SMPV-14		SMPV-14	
SAMPLING DATE			3/6/2020		4/28/2021		3/6/2020		3/6/2020		4/28/2021		3/6/2020		4/28/2021	
LAB SAMPLE ID			L2010375-08		L2122189-03		L2010375-06		L2010375-02		L2122189-04		L2010375-01		L2122189-01	
SAMPLE TYPE			SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR		SOIL_VAPOR	
SAMPLE DEPTH (ft.)																
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Vinyl chloride	75-01-4	ug/m3	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U
Methylene chloride	75-09-2	ug/m3	1.74	U	1.74	U	1.74	U	3.68		1.74	U	1.74	U	1.74	U
Carbon disulfide	75-15-0	ug/m3	0.623	U	0.623	U	0.623	U	0.797		0.623	U	**0.772**		0.623	U
Bromoform	75-25-2	ug/m3	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U
Bromodichloromethane	75-27-4	ug/m3	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U
1,1-Dichloroethane	75-34-3	ug/m3	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
1,1-Dichloroethene	75-35-4	ug/m3	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Tertiary butyl Alcohol	75-65-0	ug/m3	1.52	U	**3.52**		1.52	U	1.52	U	**4.27**		1.52	U	**3.06**	
Trichlorofluoromethane	75-69-4	ug/m3	**9.72**		**238**		1.82		48.7		**105**		**826**		**447**	
Dichlorodifluoromethane	75-71-8	ug/m3	**2.52**		**2.24**		2.73		285		**376**		**82.1**		**10.6**	
Freon-113	76-13-1	ug/m3	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U
Freon-114	76-14-2	ug/m3	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
1,2-Dichloropropane	78-87-5	ug/m3	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U
2-Butanone	78-93-3	ug/m3	1.47	U	1.47	U	1.47	U	1.47	U	**1.63**		**4.19**		1.47	U
1,1,2-Trichloroethane	79-00-5	ug/m3	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Trichloroethene	79-01-6	ug/m3	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U
Hexachlorobutadiene	87-68-3	ug/m3	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U
o-Xylene	95-47-6	ug/m3	0.869	U	**3.5**		0.869	U	0.869	U	**1.3**		**3.63**		0.869	U
1,2-Dichlorobenzene	95-50-1	ug/m3	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	0.983	U	**1.71**		0.983	U	0.983	U	0.983	U	**4.64**		0.983	U

Qualifier Key
NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
I - The lower value for the two columns has been reported due to obvious interference.
G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
RE - Analytical results are from sample re-extraction.
R - Analytical results are from sample re-analysis.
D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
P - The RPD between the results for the two columns exceeds the method-specified criteria.
U - Not detected at the reported detection limit for the sample.
M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
S - Analytical results are from modified screening analysis.
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
* : LCS or LCSD is outside acceptance limits.

FIGURES

	NY-AWQS	Units
Trichlorofluoromethane (FREON 11)	5	ug/l
Dichlorodifluoromethane (FREON 12)	5	ug/l
Perfluorooctanesulfonic Acid (PFOS)	10	ng/l
Perfluorooctanoic Acid (PFOA)	10	ng/l

LOCATION	MW-217		MW-217		MW-217		MW-217	
SAMPLING DATE	7/10/2019		3/6/2020		9/3/2020		4/28/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (FREON 11)	12		22		5.6		47	
Dichlorodifluoromethane (FREON 12)	5	U	5	U	0.31	U	5	U
Perfluorooctanesulfonic Acid (PFOS)	17		30		42.1		19.5	
Perfluorooctanoic Acid (PFOA)	16.5		15.7		13.8		14.6	

LOCATION	MW-216		MW-216		MW-216		MW-216	
SAMPLING DATE	7/10/2019		3/6/2020		9/3/2020		4/28/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Trichlorofluoromethane	120		48		6.9		29	
Dichlorodifluoromethane	48		15		3.9		11	
Perfluorooctanesulfonic Acid (PFOS)	29.4		6.51		6.51		24.8	
Perfluorooctanoic Acid (PFOA)	17.9		8.18		8.18		9.39	

LOCATION	MW-203		MW-203		MW-203		MW-203	
SAMPLING DATE	2/7/2019		3/5/2020		9/2/2020		4/28/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	37		27.9		25		14.5	
Perfluorooctanoic Acid (PFOA)	22.3		6		5.15		3.26	

LOCATION	MW-204		MW-204		MW-204	
SAMPLING DATE	3/5/2020		9/2/2020		4/27/2021	
	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	5.05		12.1		4.41	
Perfluorooctanoic Acid (PFOA)	2.22		3.94		1.53	J

LOCATION	MW-213		MW-213		MW-213		MW-213	
SAMPLING DATE	1/29/2019		3/4/2020		9/2/2020		4/27/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (FREON 11)	48		71		56		52	
Dichlorodifluoromethane (FREON 12)	29		74		40		54	
Perfluorooctanesulfonic Acid (PFOS)	91.2		73.4		60.7		70	
Perfluorooctanoic Acid (PFOA)	40.4		32.8		26.5		27.7	

LOCATION	MW-206		MW-206		MW-206		MW-206	
SAMPLING DATE	2/6/2019		3/5/2020		9/2/2020		4/27/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	51.9		47.9		38.7		30.9	
Perfluorooctanoic Acid (PFOA)	107		25.5		12.1		26	

LOCATION	MW-207		MW-207		MW-207		MW-207	
SAMPLING DATE	2/6/2019		3/5/2020		9/3/2020		4/27/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	34		11.3		22.1		8.36	
Perfluorooctanoic Acid (PFOA)	23.4		6.59		5.46		2.2	

LOCATION	MW-208		MW-208	
SAMPLING DATE	2/7/2019		3/5/2020	
	Results	Q	Results	Q
Perfluorooctanesulfonic Acid (PFOS)	17.6		68.2	
Perfluorooctanoic Acid (PFOA)	10.8		38.2	

LOCATION	MW-214		MW-214		MW-214		MW-214	
SAMPLING DATE	1/29/2019		3/4/2020		9/3/2020		4/27/2021	
	Results	Q	Results	Q	Results	Q	Results	Q
Trichlorofluoromethane (FREON 11)	0.14	U	10		5.1		5.4	
Dichlorodifluoromethane (FREON 12)	0.88	J	27		16		21	
Perfluorooctanesulfonic Acid (PFOS)	48.5		47.3		46.6		40.3	
Perfluorooctanoic Acid (PFOA)	68.6		29.9		25.8		29.5	

PROPERTY LINE

MACADAM SURFACE DRIVEWAY

Monitoring Well #210

Monitoring Well #201

Monitoring Well #203

Monitoring Well #204

Monitoring Well #205

Monitoring Well #211

Monitoring Well #206

Monitoring Well #208

Monitoring Well #207

Monitoring Well #209

Monitoring Well #217

Monitoring Well #216

Monitoring Well #213

Monitoring Well #214

Monitoring Well #212

FORMER TENNIS COURT

FORMER BUILDING LOCATION

UNPAVED DRIVEWAY

FORMER POOL LOCATION

FORMER SKI MAINTENANCE BUILDING

5/8" rebar (found)

SPRUCE

KATERINA CHEREPANOV CRONK
f/k/a KATERINA CRONK
INSTRUMENT NO. 2017-2245
SBL: 29-2-17

REFERENCE
1. SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.
2. WELL NOT LISTED ON TABLE DO NOT CONTAIN EXCEEDANCES TO GW CLASS GA EFFLUENT.
3. "GW CLASS GA EFFLUENT" STANDARD IS NYSDEC WATER QUALITY STANDARD APPLIED TO THIS SITE.

LEGEND

MW-201 – MONITORING WELL LOCATION AND DESIGNATION

30.9 – EXCEEDS STANDARDS

Scale: 1"= 60'

0 30 60 120 180 240

NYS Education Law
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N:\ACAD\9313\SMP 2019-12-10\2021-06-21 SAMPLE RESULTS\9313 FIG-3.1 – GROUNDWATER SAMPLE RESULTS PLAN XTND 07/09/21 03:03:28PM, Jerry, LAYOUT1FIG-3.1

no.	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 60'
date: 07/08/2021

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SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE. PINE BROOK, NJ. 07058 PH: 973-808-9050

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title:
MONITORING WELL LOCATIONS AND CONCENTRATIONS

job no. 9313
drawing no.
FIG-3.1

LOCATION	V-2		V-2		SMPV-2		SMPV-2	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		4/29/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	3.5	U	0.442	U	0.442	U
Benzene	2.3	U	5.6	U	0.639	U	**1.52**	
Trichlorofluoromethane	**3.5**		**2300**	B	1.12	U	**21.5**	
Dichlorodifluoromethane	9.9	U	**110**		**2.16**		**2.52**	

LOCATION	V-1		V-1		SMPV-1		SMPV-1	
SAMPLING DATE	12/14/2018		2/11/2019		3/6/2020		4/29/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	**66**		370	U	0.442	U	0.442	U
Benzene	**24**		590	U	**0.811**		**2.37**	
Trichlorofluoromethane	3.5	U	**380000**	B	**4.24**		**2.56**	
Dichlorodifluoromethane	9.9	U	2600	U	**3.21**		**2.36**	

LOCATION	V-3		SMPV-3		SMPV-3	
SAMPLING DATE	12/14/2018		3/6/2020		4/29/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	**28**		0.442	U	0.442	U
Benzene	**5.1**	J	0.639	U	**2.87**	
Trichlorofluoromethane (FREON 11)	**26**		**3.2**		**1.21**	
Dichlorodifluoromethane (FREON 12)	**140**		**4.84**		**2.34**	

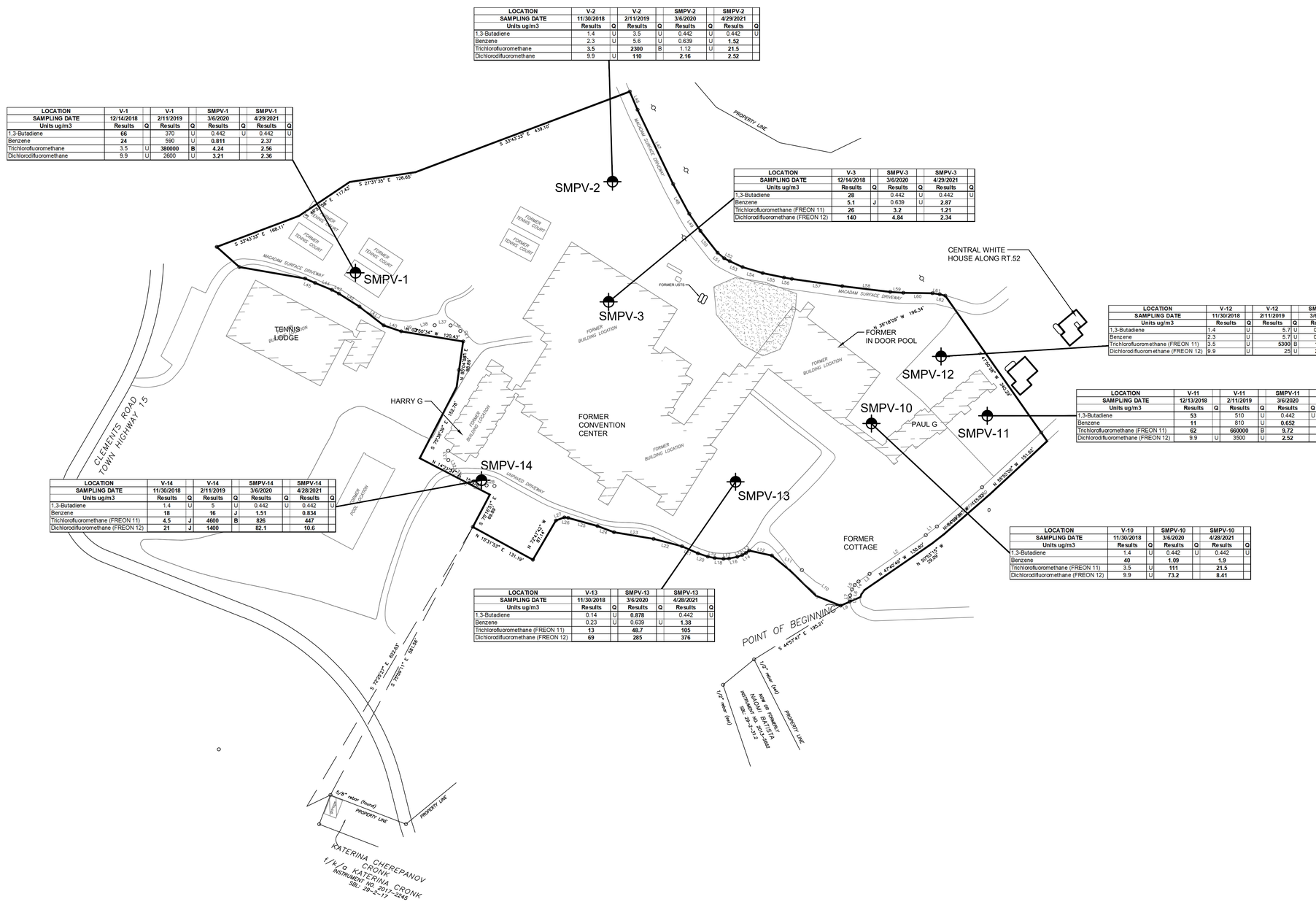
LOCATION	V-12		V-12		SMPV-12	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	5.7	U	0.442	U
Benzene	2.3	U	5.7	U	0.639	U
Trichlorofluoromethane (FREON 11)	3.5	U	**5300**	B	**1.82**	
Dichlorodifluoromethane (FREON 12)	9.9	U	25	U	**2.73**	

LOCATION	V-11		V-11		SMPV-11		SMPV-11	
SAMPLING DATE	12/13/2018		2/11/2019		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	**53**		510	U	0.442	U	0.442	U
Benzene	**11**		810	U	**0.652**		**2.87**	
Trichlorofluoromethane (FREON 11)	**62**		**660000**	B	**9.72**		**238**	
Dichlorodifluoromethane (FREON 12)	9.9	U	3500	U	**2.52**		**2.24**	

LOCATION	V-14		V-14		SMPV-14		SMPV-14	
SAMPLING DATE	11/30/2018		2/11/2019		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	5	U	0.442	U	0.442	U
Benzene	**18**		**16**	J	**1.51**		**0.834**	
Trichlorofluoromethane (FREON 11)	**4.5**	J	**4600**	B	**826**		**447**	
Dichlorodifluoromethane (FREON 12)	**21**	J	**1400**		**82.1**		**10.6**	

LOCATION	V-10		SMPV-10		SMPV-10	
SAMPLING DATE	11/30/2018		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	1.4	U	0.442	U	0.442	U
Benzene	**40**		**1.09**		**1.9**	
Trichlorofluoromethane (FREON 11)	3.5	U	**111**		**21.5**	
Dichlorodifluoromethane (FREON 12)	9.9	U	**73.2**		**8.41**	

LOCATION	V-13		SMPV-13		SMPV-13	
SAMPLING DATE	11/30/2018		3/6/2020		4/28/2021	
Units ug/m3	Results	Q	Results	Q	Results	Q
1,3-Butadiene	0.14	U	**0.878**		0.442	U
Benzene	0.23	U	0.639	U	**1.38**	
Trichlorofluoromethane (FREON 11)	**13**		**48.7**		**105**	
Dichlorodifluoromethane (FREON 12)	**69**		**285**		**376**	



LEGEND:

SMPV-12 - LOCATION AND AND SOIL VAPOR POINT NUMBER

\- BROWNFIELDS CLEAN-UP PROGRAM (BCP) TOTAL AREA = 17.30+0.87 ACRES SITE BOUNDARY

Scale: 1"= 100'

0 50 100 200 300 400

REFERENCE
SITE INFORMATION TAKEN FROM "PRELIMINARY MAP". DATED FEBRUARY 1993.
LAST UPDATED ON DECEMBER 2009.

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N:\ACAD\9313\SMP 2019-12-10\2021-06-21 SAMPLE RESULTS\9313 FIG-3.2 - SOIL VAPOR RESULTS PLAN V1.DWG 07/09/21 03:03:57PM Jenny LAYOUT:FIG-3.2

UNKNOWN

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 100'
date: 07/08/2021

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ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754

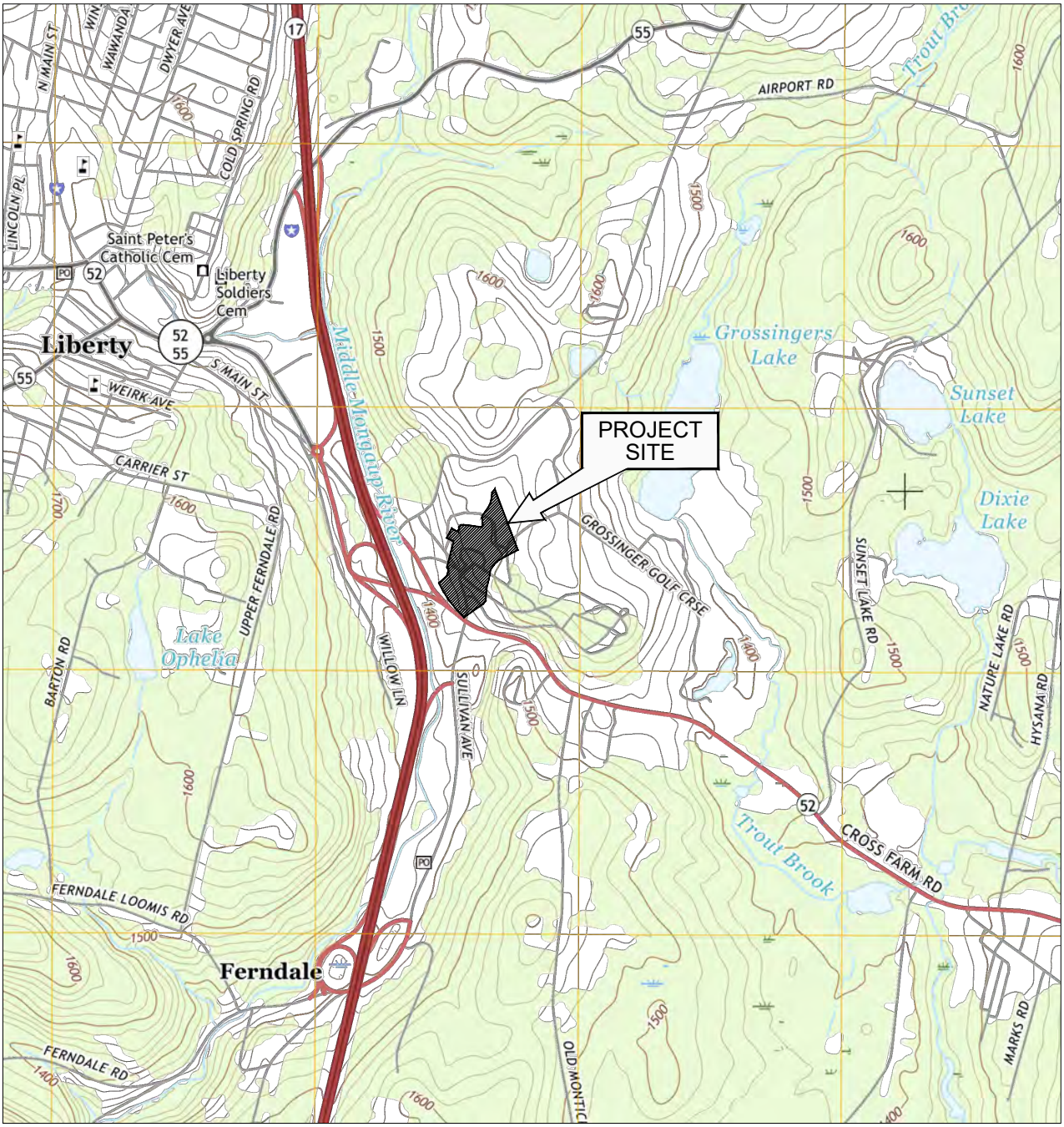
drawing title:
SOIL VAPOR POINT SAMPLE RESULTS PLAN

job no. 9313
drawing no.

FIG-3.2

Appendix A:

Site Management Plan (SMP) Figures



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 18T
10 000-foot ticks: New York Coordinate System of 1983 (east zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2013
Roads..... U.S. Census Bureau, 2015 - 2016
Names.....GNIS, 2016
Hydrography.....National Hydrography Dataset, 2013
Contours.....National Elevation Dataset, 1999
Boundaries.....Multiple sources; see metadata file 1972 - 2016

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
WM
Grid Zone Designation
18T

SCALE 1:24 000

KILOMETERS 1 0.5 0 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Livingston Manor
2 Willowemoc
3 Claryville
4 Liberty West
5 Grahamsville
6 White Lake
7 Monticello
8 Woodridge

FIG-2.1

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

SITE PLAN

SESI CONSULTING ENGINEERS D.P.C.
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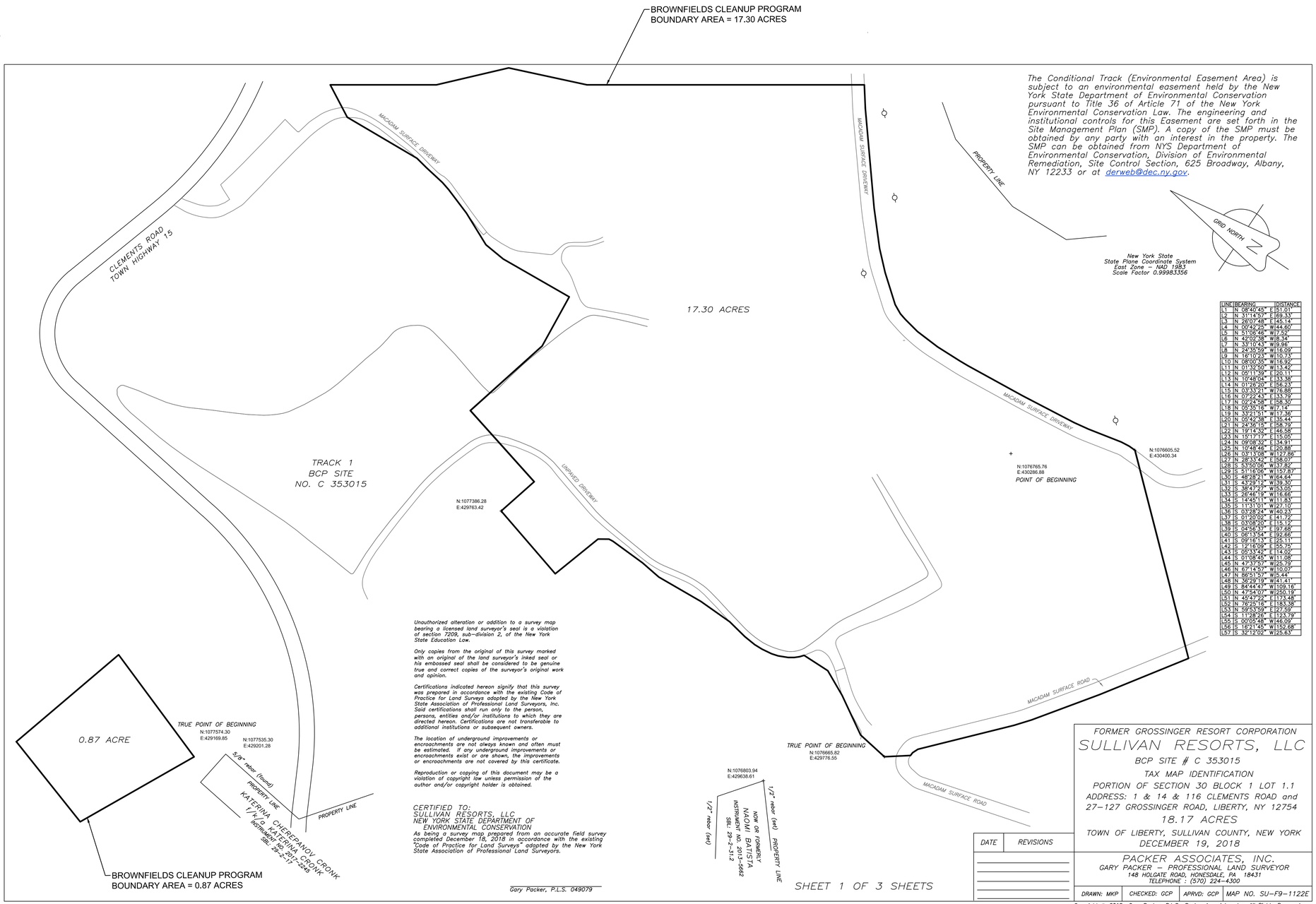
DRAWN BY: yy
CHECKED BY: FD
SCALE: N.T.S.
DATE: 12/11/19
JOB NO.: 9313

N:\ACAD\9313\SMP 2019-12-10\9313 SITE PLAN FIG-1.1.DWG 12/11/19 02:56:24PM, jenny, LAYOUT:FIG-1.1



The Conditional Track (Environmental Easement Area) is subject to an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@dec.ny.gov.

LINE	BEARING	DISTANCE
L1	N 08°40'45" E	51.01'
L2	N 31°14'57" E	69.33'
L3	N 26°07'48" E	45.14'
L4	N 00°42'25" W	44.60'
L5	N 51°09'46" W	7.52'
L6	N 42°03'58" W	8.34'
L7	N 33°10'43" W	9.96'
L8	N 24°15'59" W	16.09'
L9	N 18°10'23" W	10.73'
L10	N 09°00'45" W	16.92'
L11	N 01°32'50" W	13.42'
L12	N 05°11'39" E	20.11'
L13	N 10°48'04" E	33.38'
L14	N 01°26'20" E	56.23'
L15	N 01°33'21" W	76.88'
L16	N 07°22'43" E	33.79'
L17	N 09°23'58" E	58.30'
L18	N 05°35'16" W	7.14'
L19	N 33°21'51" W	17.36'
L20	N 05°42'38" E	35.44'
L21	N 24°36'15" E	58.79'
L22	N 19°13'50" E	46.58'
L23	N 15°17'17" E	115.05'
L24	N 09°08'32" E	34.91'
L25	N 10°48'46" E	20.88'
L26	N 03°13'08" W	127.86'
L27	N 28°13'42" E	58.07'
L28	S 57°50'06" W	37.82'
L29	S 31°10'06" W	152.87'
L30	S 48°28'21" W	64.64'
L31	S 43°29'12" W	39.30'
L32	S 36°41'27" W	53.05'
L33	S 26°46'19" W	16.66'
L34	S 14°45'11" W	11.83'
L35	S 11°31'01" W	27.10'
L36	S 01°28'24" W	40.23'
L37	S 01°20'02" E	41.72'
L38	S 01°08'20" E	15.12'
L39	S 04°56'37" E	97.68'
L40	S 06°13'54" E	92.66'
L41	S 09°16'13" E	25.11'
L42	S 12°10'09" E	55.75'
L43	S 05°33'42" E	14.02'
L44	S 01°08'45" W	11.08'
L45	N 47°37'57" W	25.79'
L46	N 67°14'57" W	10.27'
L47	N 86°51'57" W	15.44'
L48	N 56°29'19" W	41.41'
L49	S 84°44'47" W	109.16'
L50	N 47°54'07" W	250.19'
L51	N 45°47'22" E	173.48'
L52	N 76°29'16" E	183.38'
L53	N 59°53'59" E	127.59'
L54	S 11°28'26" E	123.79'
L55	S 00°05'48" W	46.09'
L56	S 16°21'45" W	152.68'
L57	S 30°12'02" W	25.63'

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As being a survey map prepared from an accurate field survey completed December 18, 2018 in accordance with the existing "Code of Practice for Land Surveys" adopted by the New York State Association of Professional Land Surveyors.

Gary Packer, P.L.S. 049079

SHEET 1 OF 3 SHEETS

DATE	REVISIONS

FORMER GROSSINGER RESORT CORPORATION

SULLIVAN RESORTS, LLC

BCP SITE # C 353015

TAX MAP IDENTIFICATION
PORTION OF SECTION 30 BLOCK 1 LOT 1.1
ADDRESS: 1 & 14 & 116 CLEMENTS ROAD and 27–127 GROSSINGER ROAD, LIBERTY, NY 12754
18.17 ACRES
TOWN OF LIBERTY, SULLIVAN COUNTY, NEW YORK
DECEMBER 19, 2018

PACKER ASSOCIATES, INC.
GARY PACKER – PROFESSIONAL LAND SURVEYOR
148 HOLGATE ROAD, HONESDALE, PA 18431
TELEPHONE : (570) 224–4300

DRAWN: MKP | *CHECKED: GCP* | *APRVD: GCP* | *MAP NO. SU–F9–1122E*

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NOTE:
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Scale: 1"= 80'
0 40 80 160 240 320

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N:\ACAD\9313\FIG 1.2.DWG 08/20/19 10:10:29AM jerry LAYOUT:FIG-1.2

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 80'
date: 8/20/19

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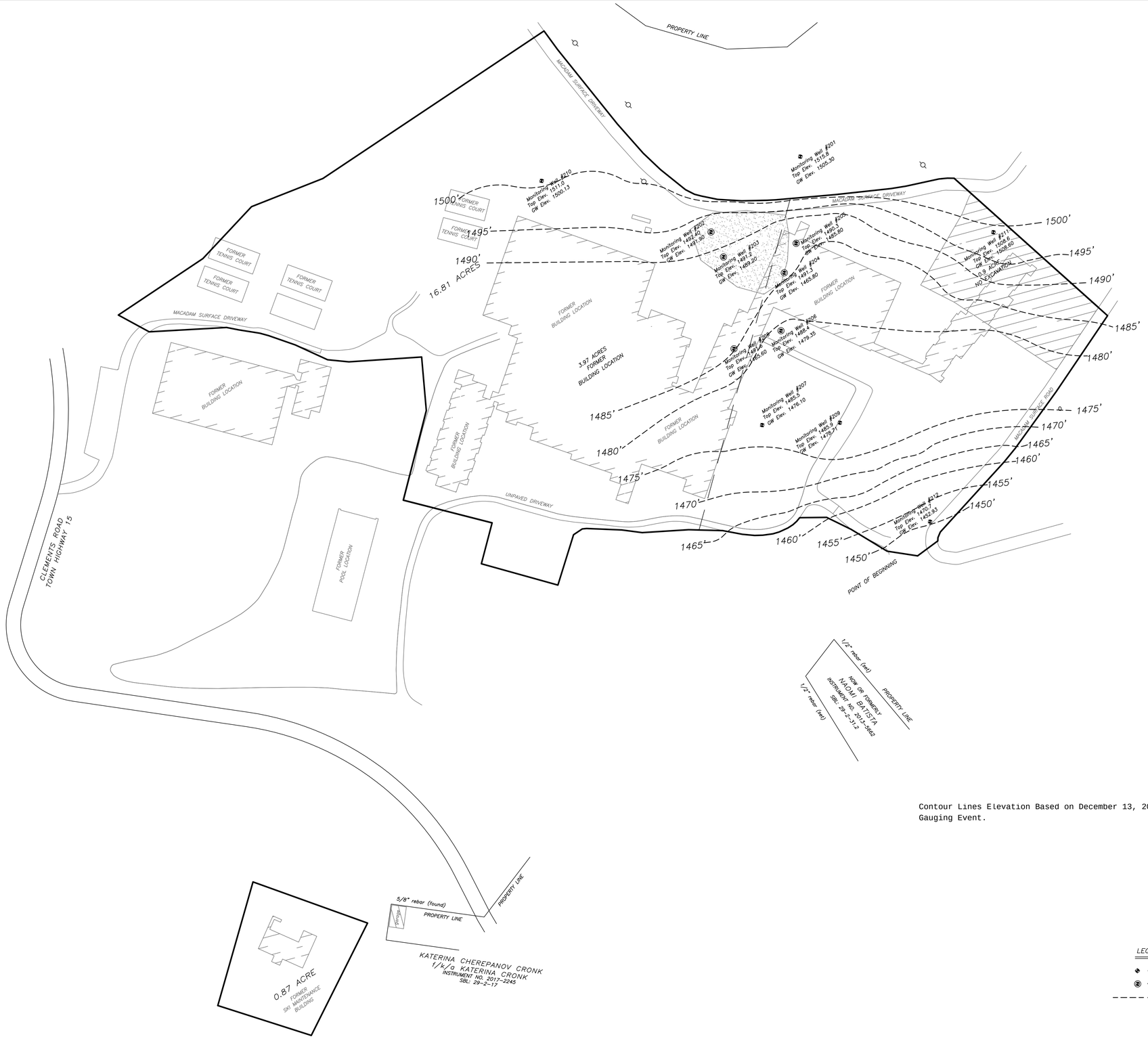
ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: SITE PLAN

job no. 9313
drawing no.

FIG-1.2



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rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 80'
date: 12/21/18

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ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

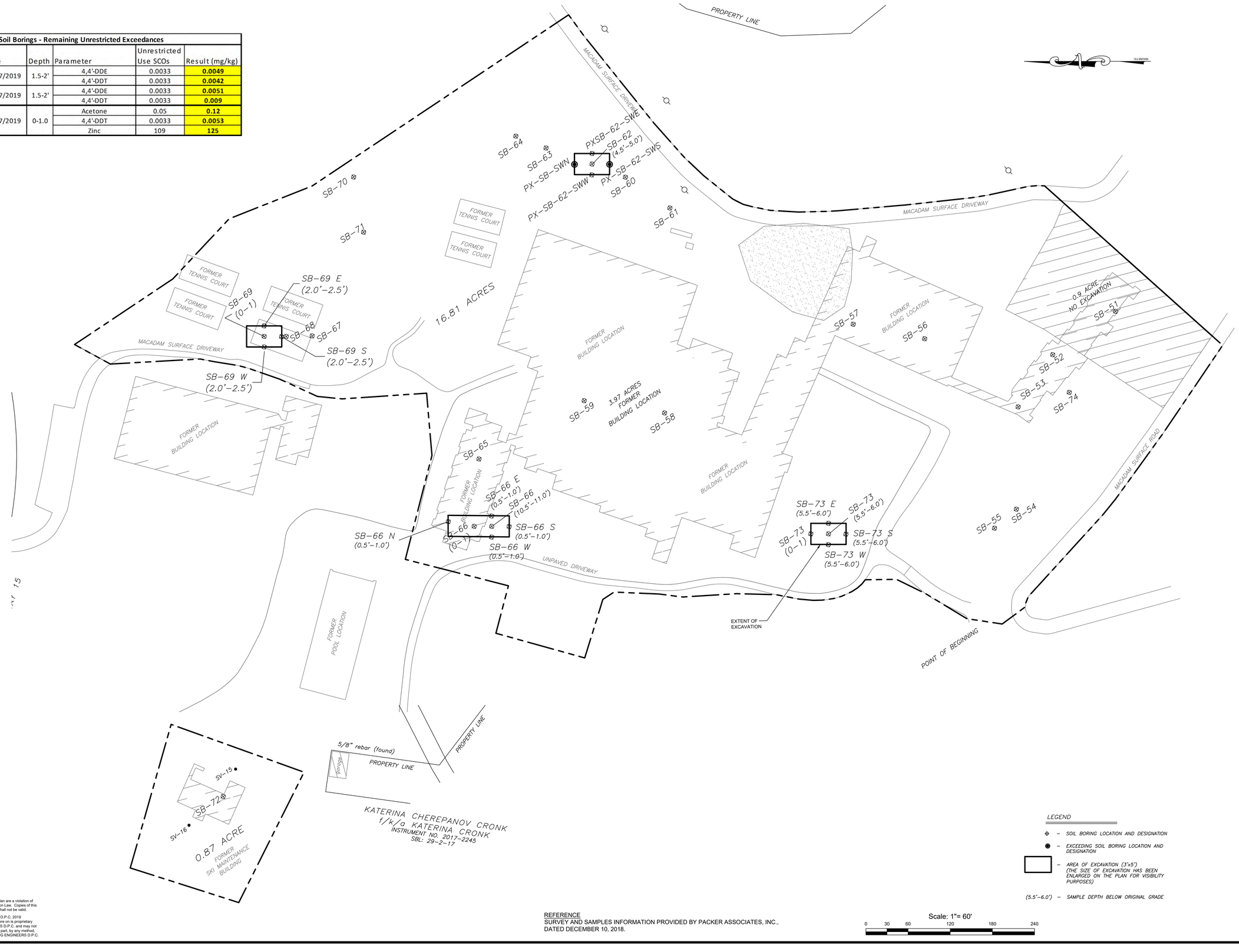
drawing title:
GROUNDWATER CONTOUR MAP

job no. 9313
drawing no.
FIG- 2.1

FUAD DAHAN, P.E.
PROFESSIONAL ENGINEER
N.Y. LIC. NO. 090531

N:\CAD\9313\SWPPP\9313 FIG-2.1.DWG 12/21/18 03:03:09PM jenny LAYOUT:FIG-4.1

Soil Borings - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
SB-62-SWN	1/17/2019	1.5-2'	4,4'-DDE	0.0033	**0.0049**
			4,4'-DDT	0.0033	**0.0042**
SB-62-SWS	1/17/2019	1.5-2'	4,4'-DDE	0.0033	**0.0051**
			4,4'-DDT	0.0033	**0.009**
SB-73 (0-1)	1/17/2019	0-1.0	Acetone	0.05	**0.12**
			4,4'-DDT	0.0033	**0.0053**
			Zinc	109	**125**



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N:\ACAD\9313\VER 48.x 2019\9313 FIG-2.2.dwg 09/20/19 09:05:21AM jerry LAYOUT:FIG-2.2

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 60'
date: 08/20/19

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ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: SOIL BORING INVESTIGATION RESULTS

job no. 9313
drawing no. FIG 2.2

Surface Soil Pesticide Excavation Areas - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
SS-27		0-2"	4,4'-DDT	0.0033	**0.010**
SS-28		0-2"	4,4'-DDT	0.0033	**0.027**
			4,4'-DDE	0.0033	**0.007**
			4,4'-DDD	0.0033	**0.005**
			Dieldrin	0.005	**0.029**
SS-33		0-2"	4,4'-DDT	0.0033	**0.013**
			4,4'-DDE	0.0033	**0.004**

LEGEND

- ● – SURFACE SOIL SAMPLE LOCATION
- ▭ – EXCAVATION AREA (DEPTH VARIES)
- 1479.1 × – ELEVATION OF TOP/BOTTOM OF EXCAVATION
- (0"–2") – SAMPLE DEPTH BELOW ORIGINAL GRADE

Scale: 1"= 80'

0 40 80 160 240 320

REFERENCE
SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.

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N:\ACAD\2013\FEB JULY 2019\9313 FIG-2.3.DWG 09/20/19 09:05:52AM jerry LAYOUT:FIG-2.3

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 80'
date: 08/20/19

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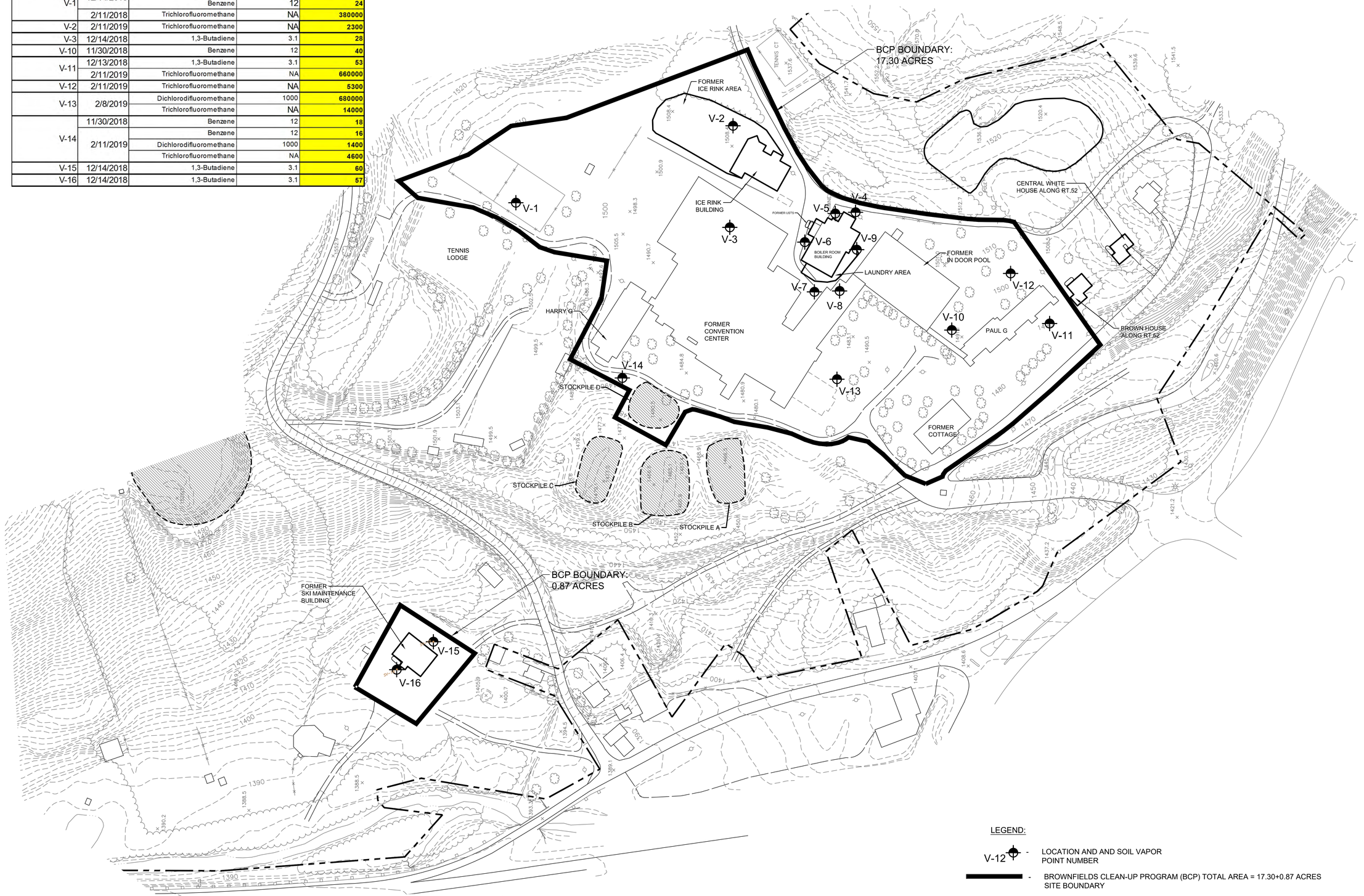
NYSDEC BCP SITE NO. C353015

drawing title:
PESTICIDES SURFACE INVESTIGATION RESULTS

job no. 9313
drawing no.

FIG 2.3

Soil Vapor Data				
Sample Number	Date	Parameter	EPA Technical Guidance (ug/m3)	Result (ug/m3)
V-1	12/14/2018	1,3-Butadiene	3.1	**66**
		Benzene	12	**24**
	2/11/2018	Trichlorofluoromethane	NA	**380000**
V-2	2/11/2019	Trichlorofluoromethane	NA	**2300**
V-3	12/14/2018	1,3-Butadiene	3.1	**28**
V-10	11/30/2018	Benzene	12	**40**
V-11	12/13/2018	1,3-Butadiene	3.1	**53**
	2/11/2019	Trichlorofluoromethane	NA	**660000**
V-12	2/11/2019	Trichlorofluoromethane	NA	**5300**
V-13	2/8/2019	Dichlorodifluoromethane	1000	**680000**
		Trichlorofluoromethane	NA	**14000**
V-14	11/30/2018	Benzene	12	**18**
	2/11/2019	Benzene	12	**16**
		Dichlorodifluoromethane	1000	**1400**
		Trichlorofluoromethane	NA	**4600**
V-15	12/14/2018	1,3-Butadiene	3.1	**60**
V-16	12/14/2018	1,3-Butadiene	3.1	**57**



Scale: 1"= 100'

0 50 100 200 300 400

LEGEND:

V-12 - LOCATION AND AND SOIL VAPOR POINT NUMBER

\- BROWNFIELDS CLEAN-UP PROGRAM (BCP) TOTAL AREA = 17.30+0.87 ACRES SITE BOUNDARY

REFERENCE
SITE INFORMATION TAKEN FROM "PRELIMINARY MAP". DATED FEBRUARY 1993.
LAST UPDATED ON DECEMBER 2009.

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N:\ACAD\9313\VER .dcx 2019\9313 FIG 3.10.DWG 09/20/19 09:44:29AM, jerry, LAYOUT FIG-3.10

by	description	date	rev

dwg by: yy
chk by: FD
scale: 1" = 100'
date: 08/20/19

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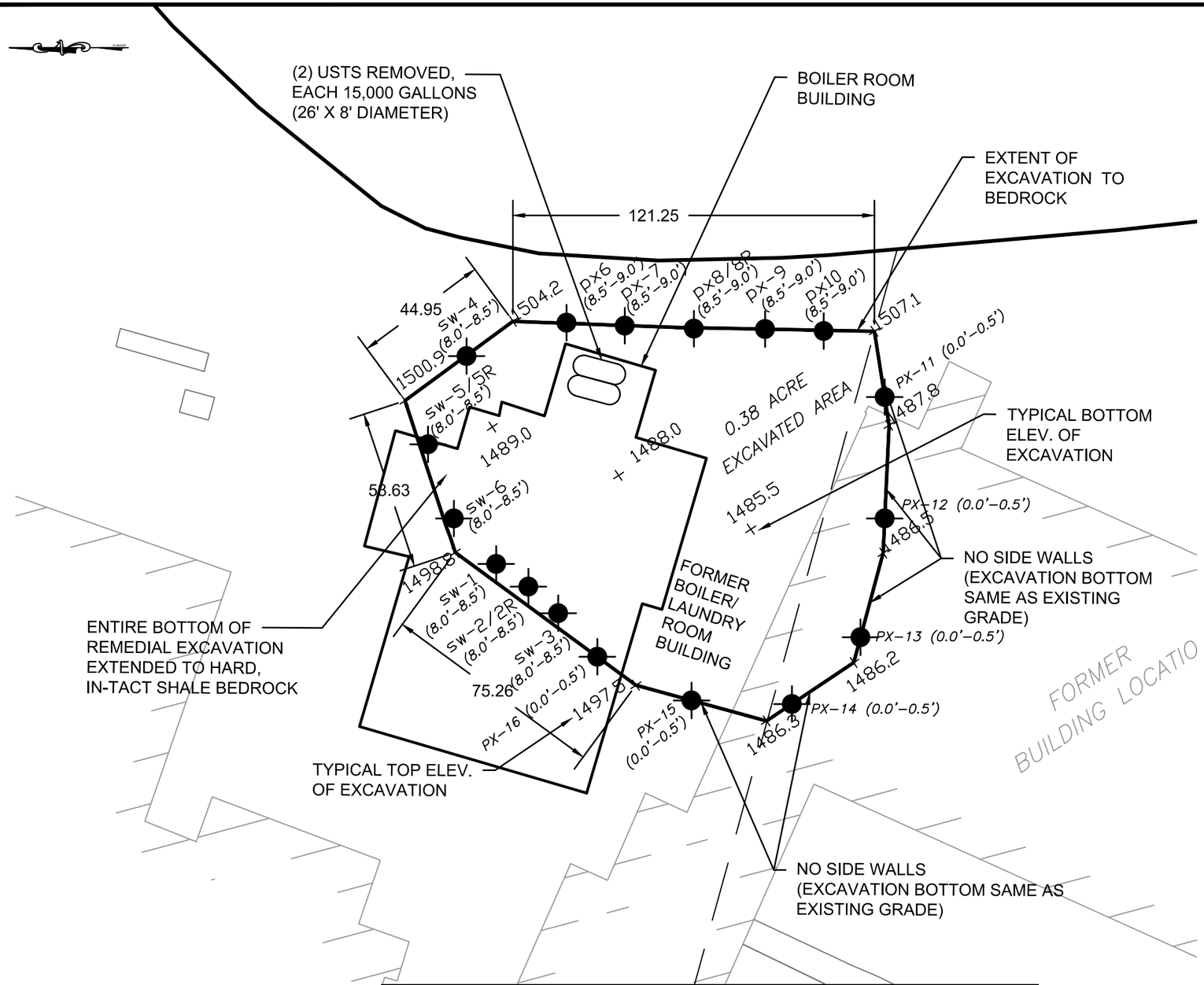
SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE., PINE BROOK, NJ. 07058 PH: 973-808-9050

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754

drawing title:
SOIL VAPOR POINT LOCATION PLAN

job no. 9313
drawing no.
FIG- 2.4



UST LNAPL AREA - REMAINING UNRESTRICTED EXCEEDANCES					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
SW-5	12/7/2018	8-8.5'	Xylenes	0.26	**0.52**
SW-2R	6/27/2019	8-8.5	4,4'-DDT	0.0033	**0.0135**

LEGEND

- *POST EXCAVATION SAMPLE NUMBER & LOCATION*
- 1485.5 – *ELEVATION OF BOTTOM/TOP OF EXCAVATION*
- *(8.5'–9.0')* – *SAMPLE DEPTH BELOW ORIGINAL GRADE*

REFERENCE
SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.

SCALE: 1"=40'
0 40 80

NYS Education Law
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N:\ACAD\9313\FER JULY 2019\9313 FIG-3.1.DWG 08/23/19 09:18:36AM, jenny, LAYOUT:FIG-3.1

dwg by: yy
chk by: FD
scale: 1" = 40'
date: 8/20/19

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SITE DESIGN
ENVIRONMENTAL
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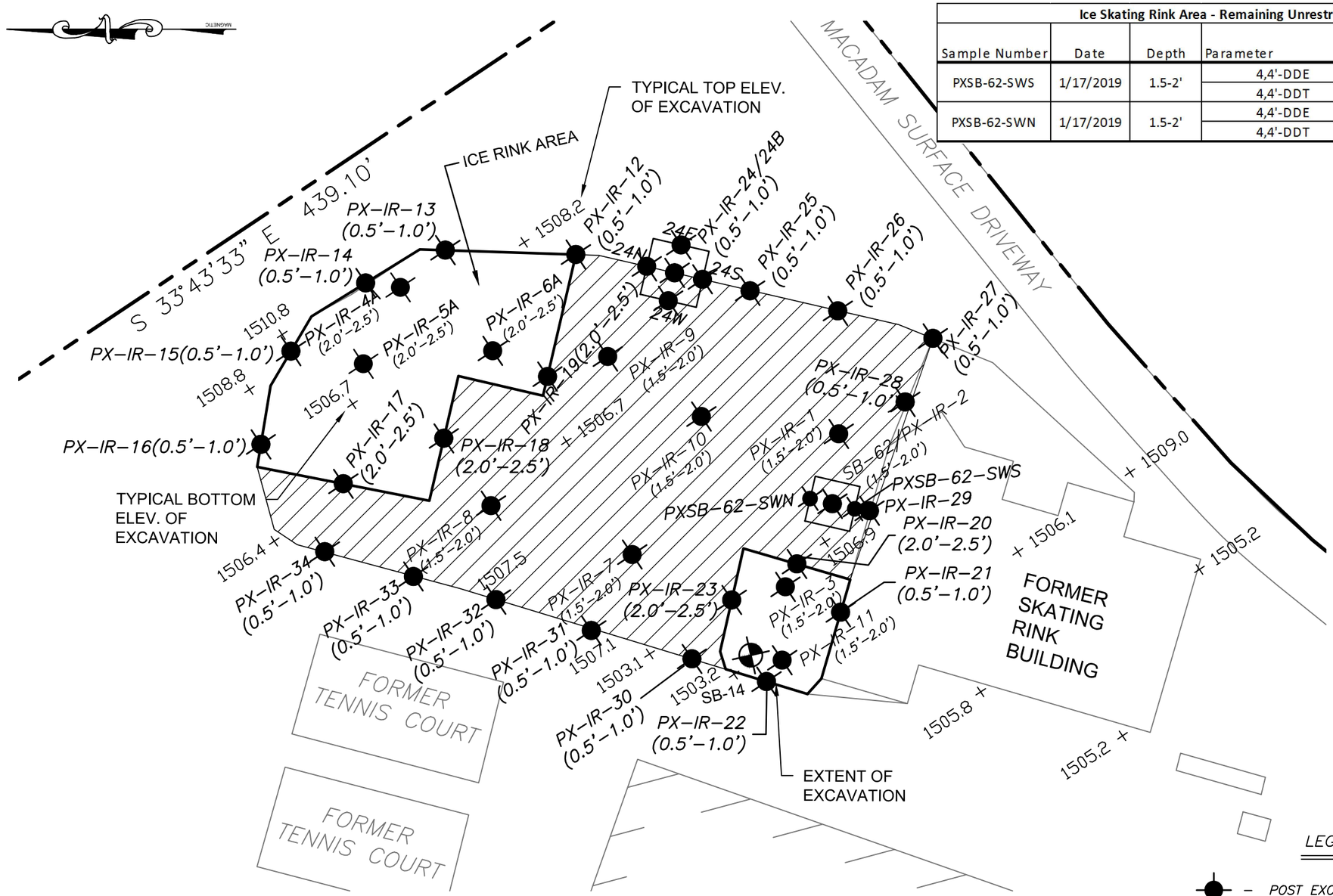
project:
ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title:
UST REMOVAL / LNAPL EXCAVATION AREA

job no: 9313
drawing no:

FIG 2.5

Ice Skating Rink Area - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
PXSB-62-SWS	1/17/2019	1.5-2'	4,4'-DDE	0.0033	**0.005**
			4,4'-DDT	0.0033	**0.009**
PXSB-62-SWN	1/17/2019	1.5-2'	4,4'-DDE	0.0033	**0.005**
			4,4'-DDT	0.0033	**0.004**



LEGEND

- POST EXCAVATION SAMPLE NUMBER & LOCATION
- SB-14 – PHASE II LOCATION AND SOIL BORING NUMBER/MONITORING WELL NUMBER
- (1.5'–2.0') – SAMPLE DEPTH BELOW ORIGINAL GRADE
- 1505.2 × – ELEVATION OF TOP/BOTTOM OF EXCAVATION
- AREA OF CONCRETE AND STAINED SOIL REMOVAL 1.5 FEET DEPTH

SCALE: 1"=40'

0 40 80

REFERENCE
SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.

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N:\ACAD\9313\FER JULY 2019\9313 FIG-3.3.DWG 08/20/19 10:02:47AM, jenny, LAYOUT:FIG-3.3

dwg by: yy
chk by: FD
scale: 1" = 40'
date: 8/20/19

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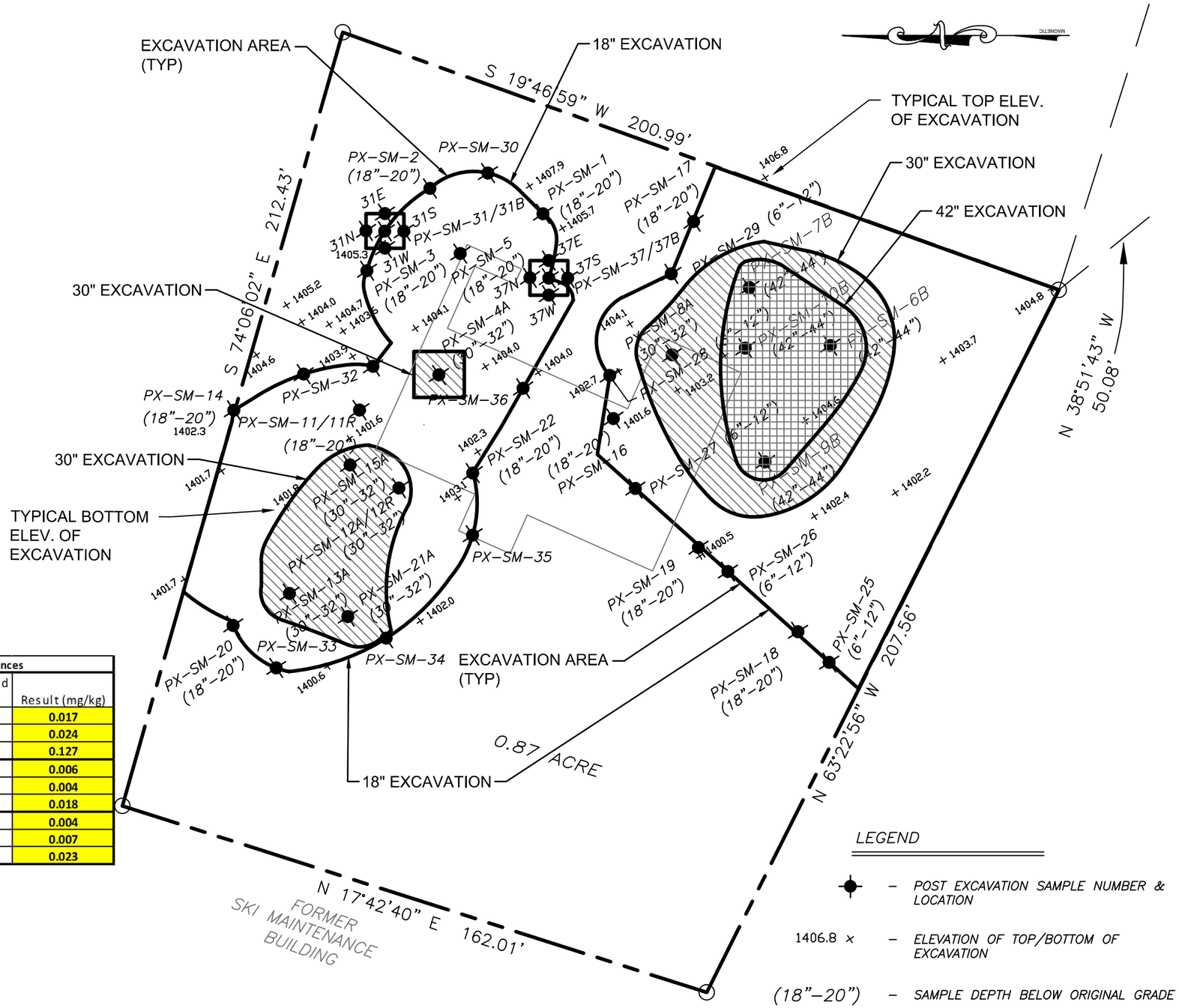
project: ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: ICE RINK AREA EXCAVATION PLAN

job no: 9313
drawing no: FIG-2.6



Ski Maintenance Area - Remaining Unrestricted Exceedances					
Sample Number	Date	Depth	Parameter	Unrestricted Use SCOs	Result (mg/kg)
PX-SM-37W	7/16/2019	6-12"	4,4'-DDD	0.0033	**0.017**
			4,4'-DDE	0.0033	**0.024**
			4,4'-DDT	0.0033	**0.127**
PX-SM-37S	7/16/2019	6-12"	4,4'-DDD	0.0033	**0.006**
			4,4'-DDE	0.0033	**0.004**
			4,4'-DDT	0.0033	**0.018**
PX-SM-37N	7/16/2019	6-12"	4,4'-DDD	0.0033	**0.004**
			4,4'-DDE	0.0033	**0.007**
			4,4'-DDT	0.0033	**0.023**

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REFERENCE

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SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

12A MAPLE AVE, PINE BROOK, N.J. 07058 PH: 973-808-9050

dwg by: yy
chk by: FD
scale: 1" = 30'
date: 7/31/19

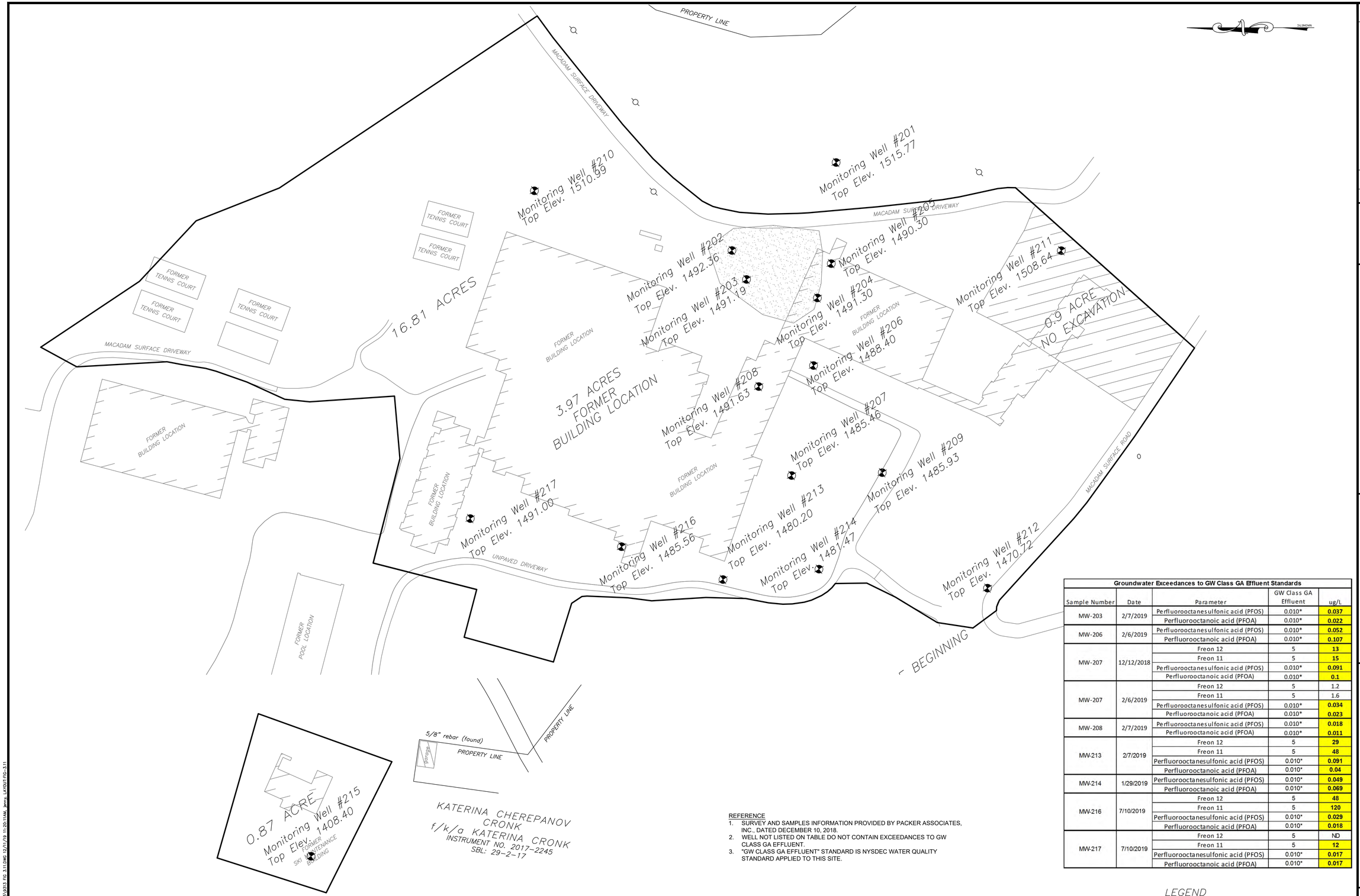
project:
ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title:
EXCAVATION PLAN
SKI MAINTENANCE AREA

job no: 9313
drawing no:

FIG 2.7

N:\ACAD\9313\FER JULY 2019\9313 FIG-3.2.DWG 08/20/19 10:02:29AM, jenny, LAYOUT:FIG-3.2



Groundwater Exceedances to GW Class GA Effluent Standards

Sample Number	Date	Parameter	GW Class GA Effluent	ug/L
MW-203	2/7/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.037**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.022**
MW-206	2/6/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.052**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.107**
MW-207	12/12/2018	Freon 12	5	**13**
		Freon 11	5	**15**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.091**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.1**
MW-207	2/6/2019	Freon 12	5	1.2
		Freon 11	5	1.6
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.034**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.023**
MW-208	2/7/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.018**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.011**
MW-213	2/7/2019	Freon 12	5	**29**
		Freon 11	5	**48**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.091**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.04**
MW-214	1/29/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.049**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.069**
MW-216	7/10/2019	Freon 12	5	**48**
		Freon 11	5	**120**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.029**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.018**
MW-217	7/10/2019	Freon 12	5	ND
		Freon 11	5	**12**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.017**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.017**

REFERENCE
1. SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.
2. WELL NOT LISTED ON TABLE DO NOT CONTAIN EXCEEDANCES TO GW CLASS GA EFFLUENT.
3. "GW CLASS GA EFFLUENT" STANDARD IS NYSDEC WATER QUALITY STANDARD APPLIED TO THIS SITE.

NOTES:
- ALL WELLS SAMPLED FOR TCL/TAL +30, PFAS, AND 1,4 DIOXANE
- NO EXCEEDANCES WERE DETECTED FOR ANY OF THE COMPOUNDS.

LEGEND

MW–201 – MONITORING WELL LOCATION AND DESIGNATION

Scale: 1"= 60'
0 30 60 120 180 240

NYS Education Law
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N:\ACAD\2313\TER 2019-12-05\2313 FIG 3.1\TER 12/17/19 11:26:11AM Jonny LAYOUT:FIG-2.8

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 60'
date: 12/05/19

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SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE., PINE BROOK, NJ., 07058 PH: 973-808-9050

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: MONITORING WELL LOCATION PLAN

job no. 9313
drawing no. FIG-2.8

PROPERTY LINE

EASTERN BOUNDARY OF BCP
(TOTAL AREA = 17.30 ACRES)
AND PROPOSED EXTENT OF
ENVIRONMENTAL EASEMENT AREA

MACADAM SURFACE DRIVEWAY

Monitoring Well #210
Top Elev. 1511.0

Monitoring Well #201
Top Elev. 1515.8

Monitoring Well #202
Top Elev. 1492.40

Monitoring Well #203
Top Elev. 1491.2

Monitoring Well #204
Top Elev. 1491.3

Monitoring Well #205
Top Elev. 1490.3

Monitoring Well #206
Top Elev. 1488.4

Monitoring Well #207
Top Elev. 1485.5

Monitoring Well #208
Top Elev. 1491.6

Monitoring Well #209
Top Elev. 1485.9

Monitoring Well #211
Top Elev. 1508.6

Monitoring Well #212
Top Elev. 1470.7

Monitoring Well #213

Monitoring Well #214

Monitoring Well #216

Monitoring Well #217

Monitoring Well #215

FORMER TENNIS COURT

FORMER BUILDING LOCATION

FORMER POOL LOCATION

MACADAM SURFACE ROAD

UNPAVED DRIVEWAY

5/8" rebar (found)

PROPERTY LINE

garage

KATERINA CHEREPANOV CRONK
f/k/a KATERINA CRONK
INSTRUMENT NO. 2017-2245
SBL: 29-2-17

SKI MAINTENANCE BUILDING

WESTERN BOUNDARY OF BCP
(TOTAL AREA = 0.87 ACRES)
NOT PART OF ENVIRONMENTAL
EASEMENT AREA

Scale: 1"= 80'

0 40 80 160 240 320

Groundwater Exceedances to GW Class GA Effluent Standards

Sample Number	Date	Parameter	GW Class GA Effluent	ug/L
MW-203	2/7/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.037**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.022**
MW-206	2/6/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.052**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.107**
MW-207	12/12/2018	Freon 21	5	**13**
		Freon 11	5	**15**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.091**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.1**
MW-207	2/6/2019	Freon 21	5	1.2
		Freon 11	5	1.6
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.034**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.023**
MW-208	2/7/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.018**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.011**
MW-213	2/7/2019	Freon 21	5	**29**
		Freon 11	5	**48**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.091**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.04**
MW-214	1/29/2019	Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.049**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.069**
MW-216	2/7/2019	Freon 21	5	**48**
		Freon 11	5	**120**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.029**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.018**
MW-217	7/10/2019	Freon 21	5	ND
		Freon 11	5	**12**
		Perfluorooctanesulfonic acid (PFOS)	0.010*	**0.017**
		Perfluorooctanoic acid (PFOA)	0.010*	**0.017**

LEGEND

MW-201 – MONITORING WELL LOCATION AND DESIGNATION

– WELLS WITH PFAS DETECTS

– WELLS WITH FREON EXCEEDANCES

– BCP BOUNDARY AND EXTENT OF ENVIRONMENTAL EASEMENT

– BCP BOUNDARY

NOTES:
- ALL WELLS SAMPLED FOR TCL/TAL +30, PFAS, AND 1,4 DIOXANE
- NO EXCEEDANCES WERE DETECTED FOR ANY OF THE COMPOUNDS.

REFERENCE
SURVEY AND SAMPLES INFORMATION PROVIDED BY RACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.

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N:\ACAD\9313\VER .doc\ 2019\9313 FIG 4.2.dwg 08/23/19 12:02:48PM jerry LAYOUT:FIG-4.2

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ENVIRONMENTAL
12A MAPLE AVE., PINE BROOK, NJ., 07058 PH: 973-808-9050

rev	date	description	by

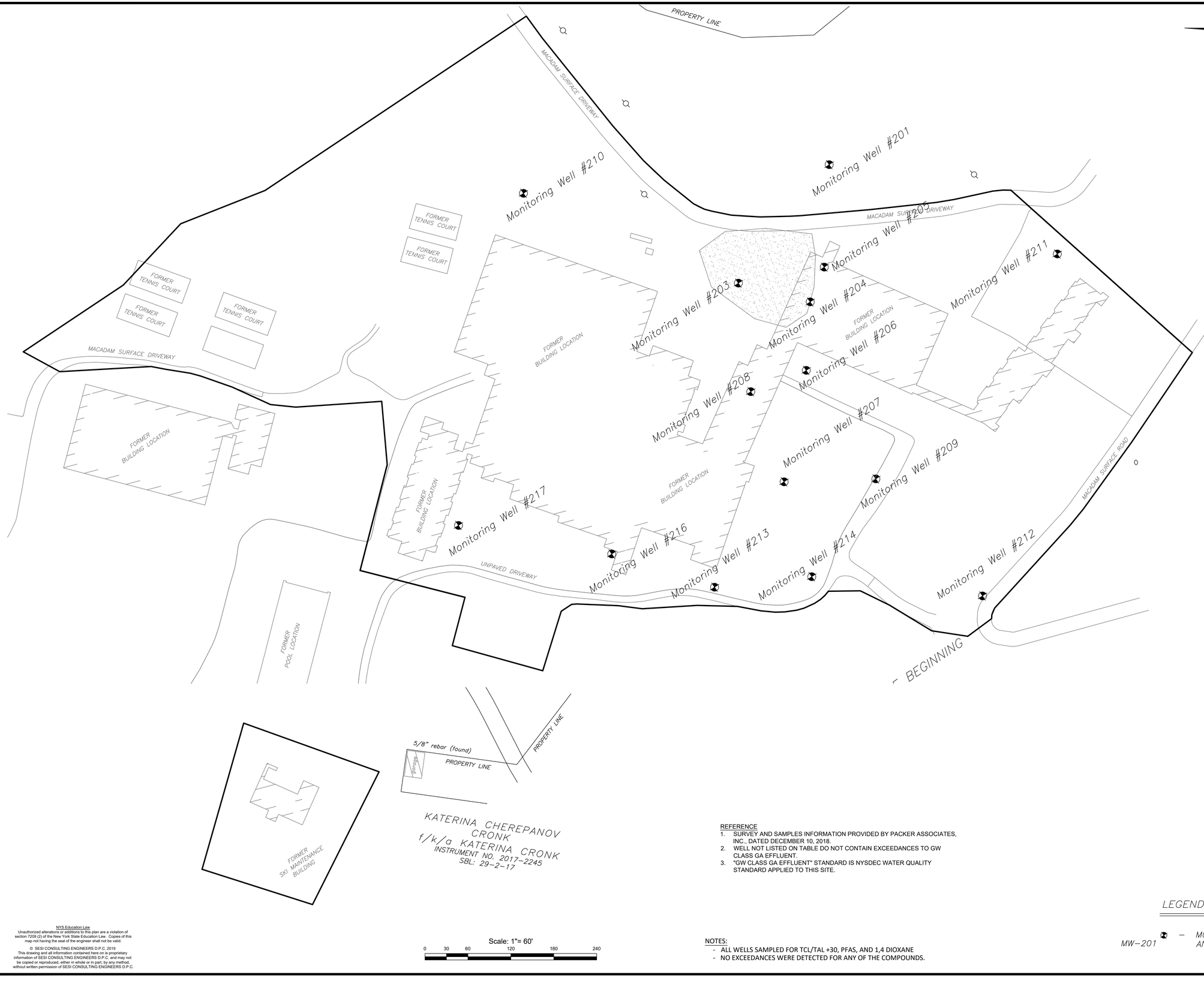
dwg by: yy
chk by: FD
scale: 1" = 80'
date: 08/20/19

FUAD DAHAN, P.E.
PROFESSIONAL ENGINEER
N.Y. LIC. NO. 090531

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title:
PROPOSED
ENVIRONMENTAL EASEMENT AREA

job no. 9313
drawing no.
FIG- 3.1



REFERENCE
1. SURVEY AND SAMPLES INFORMATION PROVIDED BY PACKER ASSOCIATES, INC., DATED DECEMBER 10, 2018.
2. WELL NOT LISTED ON TABLE DO NOT CONTAIN EXCEEDANCES TO GW CLASS GA EFFLUENT.
3. "GW CLASS GA EFFLUENT" STANDARD IS NYSDEC WATER QUALITY STANDARD APPLIED TO THIS SITE.

NOTES:
- ALL WELLS SAMPLED FOR TCL/TAL +30, PFAS, AND 1,4 DIOXANE
- NO EXCEEDANCES WERE DETECTED FOR ANY OF THE COMPOUNDS.

LEGEND

MW-201 – MONITORING WELL LOCATION AND DESIGNATION

Scale: 1"= 60'

0 30 60 120 180 240

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N:\ACAD\9313\Cad\ 2019-12-10\9313 FIG-4.1.DWG 12/17/19 08:15:43PM Jenny LAYOUT:FIG-4.1

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 60'
date: 12/10/19

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ENVIRONMENTAL
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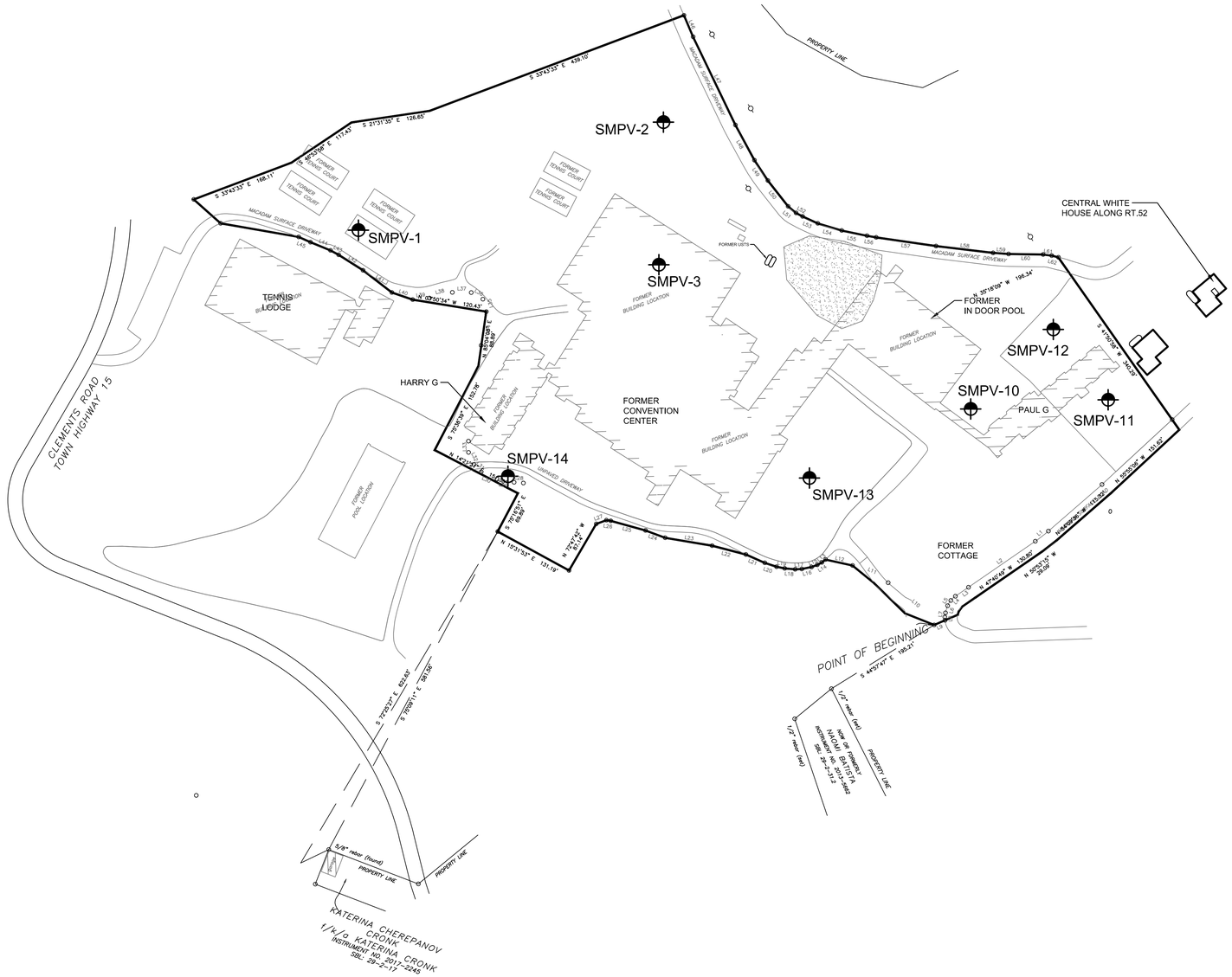
ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754
NYSDEC BCP SITE NO. C353015

drawing title: MONITORING WELL LOCATION PLAN

job no. 9313
drawing no. FIG-4.1



LEGEND:

SMPV-12 - LOCATION AND AND SOIL VAPOR POINT NUMBER

\- BROWNFIELDS CLEAN-UP PROGRAM (BCP) TOTAL AREA = 17.30+0.87 ACRES SITE BOUNDARY

Scale: 1"= 100'

0 50 100 200 300 400

REFERENCE
SITE INFORMATION TAKEN FROM "PRELIMINARY MAP". DATED FEBRUARY 1993. LAST UPDATED ON DECEMBER 2009.

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N:\VOA\9313\SMP 2019-12-13\9313 FIG-4.2.DWG 12/1/19 02:29:07PM, Jenny, LAYOUT:FIG-4.2

rev	date	description	by

dwg by: yy
chk by: FD
scale: 1" = 100'
date: 12/10/19

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SITE DESIGN
ENVIRONMENTAL
12A MAPLE AVE., PINE BROOK, NJ., 07058 PH: 973-808-9050

ROUTE 17 & ROUTE 52 EAST
LIBERTY, NEW YORK 12754

drawing title:
PROPOSED
SOIL VAPOR POINT LOCATION PLAN

job no. 9313
drawing no.

FIG-4.2

Appendix B:

Monitoring Well Sampling Logs

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-201			
Personnel:	JCS			Date:	3/6/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
6.5"		19	NE	9.78	9.22		13		Peristaltic
Turbidity at collection (NTU):		12.1	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1310	5.07	7.25	0.065	5.6	207	15.8	9.85	N
	1315	4.13	7.15	0.052	4.93	290	17.2	9.85	N
	1320	4.14	6.97	0.051	4.31	306	15.6	9.86	N
	1325	4.11	6.87	0.05	4.26	317	14.2	9.85	N
	1330	4.12	6.86	0.049	4.33	325	13	9.85	N
1.5	1335	4.1	6.82	0.049	4.29	327	12.1	9.85	N

Well Condition Summary

Cover: N	Bolts: N		Concrete Pad OK: N	Gripper: Y	

Sample Collection Information

Sample Time:	1345	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-203			
Personnel:	JCS			Date:	3/6/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
2.6'		25	NE	3.8	21.2		13		Peristaltic
Turbidity at collection (NTU):		1.8	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	825	3.42	6.72	0.109	8.06	135	31.5	4.4	N
	830	2.85	6.51	0.122	0.51	49	6.2	4.54	N
	835	2.59	6.38	0.123	0.28	52	3.1	4.55	N
	840	2.58	6.27	0.125	0	62	3.3	4.55	N
	845	2.58	6.24	0.125	0	77	3	4.55	N
	850	2.45	6.22	0.126	0	80	2	4.55	N
2	855	2.5	6.21	0.124	0	82	1.8	4.55	N

Well Condition Summary					
Cover: N	Bolts: N		Concrete Pad OK: N	Gripper: Y	

Sample Collection Information				
Sample Time:	900	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK						
Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :
Sock Installation Date:			Sock Changed :		Y / N	
Sock Depth (Depth to sock mid point):						

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-204			
Personnel:	JCS			Date:	3/5/2020				
				PID:	0				

Stickup? Y / Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
5.1'		14	NE	6.25	21.2		9		Peristaltic

Turbidity at collection (NTU):	21	(Less than 5 NTU is desirable)		Duplicate Collected? N		Filtered Sample N
Stabilization Parameters	**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1055	2.82	6.52	0.098	8.6	212	76.1	6.35	N
	1100	2.2	6.46	0.096	3.52	219	92.1	6.35	N
	1105	2.17	6.4	0.096	3.32	221	65	6.35	N
	1110	2.26	6.37	0.097	3.07	222	45.9	6.35	N
	1115	2.16	6.35	0.097	3.08	222	30.2	6.35	N
1.5	1120	2.15	6.33	0.096	3.06	223	21	6.35	N

Well Condition Summary

Cover: N	Bolts: N		Concrete Pad OK: N	Gripper: Y	

Sample Collection Information

Sample Time:	1130	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-205			
Personnel:	JCS			Date:	3/5/2020				
				PID:	0				

Stickup? Y / Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
3.2'		17'	NE	4.2'	12.8		7'		Peristaltic

Turbidity at collection (NTU):	87.7	(Less than 5 NTU is desirable)		Duplicate Collected? N		Filtered Sample N
Stabilization Parameters	**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	945	3.96	6.76	0.079	7.85	165	190	4.23	N
	950	3.37	7.05	0.074	8.39	169	200	4.25	N
	955	3	7.07	0.072	8.95	174	232	4.25	N
	1000	2.94	7.03	0.07	8.45	184	350	4.25	N
	1005	3.03	6.97	0.069	8.21	195	299	4.25	N
	1010	2.94	6.72	0.067	7.85	201	205	4.25	N
	1015	3.02	6.55	0.065	7.68	208	165	4.25	N
	1020	3.01	6.41	0.066	7.64	212	138	4.25	N
	1025	2.98	6.38	0.065	8.01	216	103	4.25	N
3	1030	3.09	6.33	0.065	7.87	220	87.7	4.25	N

Well Condition Summary

Cover: N	Bolts: N		Concrete Pad OK: N	Gripper: Y	

Sample Collection Information

Sample Time:	1035	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-206			
Personnel:	JCS			Date:	3/5/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
3.9'		19.5'		8.72'	10.78		13'		Peristaltic
Turbidity at collection (NTU):		52.1	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1142	5.52	6.45	0.282	4	220	257	8.86	N
	1147	4.86	6.46	0.252	1.74	219	127	8.86	N
	1152	4.78	6.4	0.248	1.11	220	89.3	8.86	N
	1157	4.92	6.42	0.247	1.01	219	98.7	8.86	N
	1202	5.25	6.48	0.233	1	217	96.2	8.86	N
	1207	5.4	6.51	0.234	0.94	215	59.4	8.86	N
1.5	1212	5.52	6.53	0.232	0.89	213	52.1	8.86	N

Well Condition Summary					
Cover: N	Bolts: N		Concrete Pad OK: N	Gripper: Y	
Sample Collection Information					
Sample Time: 1220	Appearance: Clear		Filtered Sample Turbidity:	OTHER:	

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK						
Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :
Sock Installation Date:			Sock Changed :		Y / N	
Sock Depth (Depth to sock mid point):						

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-208			
Personnel:	JCS			Date:	3/5/2020				
				PID:	0.1				

Stickup? Y / Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
4.8'		19.5'	NE	11.2'	8.3'		15'		Peristaltic

Turbidity at collection (NTU):	0.5	(Less than 5 NTU is desirable)	Duplicate Collected? Yes		Filtered Sample N	
Stabilization Parameters	**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1235	5.34	8.04	0.42	4.81	191	24.5	11.36	N
	1240	4.34	8.78	0.419	4.23	180	8.4	11.36	N
	1245	4.01	8.84	0.425	4.19	173	3.3	11.36	N
	1250	3.94	8.85	0.425	3.86	156	2.5	11.36	N
	1255	4.15	8.62	0.42	3.67	-12	3.7	11.36	N
	1300	4.33	8.53	0.419	3.4	-32	1.5	11.36	N
	1305	4.33	8.54	0.421	3.27	-35	1.2	11.36	N
	1310	4.31	8.48	0.419	3.06	-40	1	11.36	N
2	1315	4.32	8.46	0.42	2.99	-43	0.5	11.36	N
									N
									N
									N
									N

Well Condition Summary

Cover: N	Bolts: N		Concrete Pad OK: N	Gripper: Y	

Sample Collection Information

Sample Time:	1320	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-207			
Personnel:	JCS			Date:	3/5/2020	SESI CONSULTING ENGINEERS			
				PID:	0.1				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
4.4'	0.5'	15.7	NE	8.14'	7.56		12'		Peristaltic
Turbidity at collection (NTU):		87.7	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit
Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1400	11.25	8.03	0.107	3.99	138	22.7	8.22	N
	1405	10.07	6.87	0.163	1.93	181	6.7	8.22	N
	1410	9.5	6.37	0.165	1.78	193	4.2	8.22	N
	1415	8.83	6.19	0.176	1.61	204	20	8.22	N
	1420	8.44	6.13	0.178	1.54	209	19	8.22	N
	1425	8.29	6.21	0.197	1.36	210	1000	8.22	N
	1430	7.33	6.3	0.147	5.66	207	1000	8.22	N
	1435	7.34	6.39	0.124	4.91	207	1000	8.22	N
	1440	7.67	6.38	0.117	2.78	210	1000	8.22	N
	1445	7.65	6.37	0.112	2.9	209	1000	8.22	N
	1450	7.56	6.36	0.108	3.04	207	1000	8.22	N
	1455	7.42	6.35	0.104	3.09	201	1000	8.22	N
4	1500	7.33	6.33	0.102	3.15	203	1000	8.22	N
Well Condition Summary									
Cover: N		Bolts: N		Concrete Pad OK: N		Gripper: Y			
Sample Collection Information									
Sample Time:	1530	Appearance: Brown/turbid		Filtered Sample Turbidity:			OTHER:		

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK							
Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

VOLUME AVERAGING PURGING GROUNDWATER SAMPLING LOG

Location:				**Job Number:**		**WELL I.D. :**			
Personnel:				**Date:**		SESI CONSULTING ENGINEERS			
				PID:					
Stickup? Y/N **Distance ground to Stickup Rim/PVC**	**Distance From Rim to PVC**	**Total Depth of Well Rim/PVC**	**Depth to Product Rim/PVC**	**Depth to Water (Rim/PVC)**	**Standing Water Column (feet)**	**Middle of Saturated Zone (feet)**	**Depth to Sample Tube (feet)**	**TOV @ Well Head (ppmv)**	**Pump Peristaltic or Bladder**
Turbidity at collection (NTU):			**(Less than 5 NTU is desirable)**		**Duplicate Collected? Y/N**			**Filtered Sample Y/N**	
Stabilization Parameters		**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**
Volume Purged (gallons)	**Time (actual Time) 5 minute Intervals**	**TEMP. (Deg. C)**	**pH**	**Specific Conductivity uS/cm**	**Dissolved Oxygen (mg/L)**	**ORP mV millivolts**	**Turbidity NTUs**	**DTW (feet)**	**Odors Y/N**
Well Condition Summary									
Cover: Y / N		**Bolts: Y / N**		**Concrete Pad OK: Y / N**		**Gripper: Y / N**			
Sample Collection Information									
Sample Time:		**Appearance:**		**Filtered Sample Turbidity:**			**OTHER:**		

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK							
Sock Length (ft) =		**Capacity (Qt.) =**		**Present:**	**Y / N**	**Product Measured (Inches) :**	
Sock Installation Date:			**Sock Changed :**		**Y / N**		
Sock Depth (Depth to sock mid point):							

Volume Average Groundwater Purging Log
Grossingers
Liberty, NY

Volume Average Purging Groundwater Sampling Log	
Pre Purge	
Well Name	MW-209
Well Diameter (Inches)	2
Depth to Water (ft)	7.1
Depth to Bottom (ft)	17.2
Water Column	10.1
Well Volume (gal)	1.64
Well Headspace (PID)	3.8 ppm
Pump On Time	10:30
Pump Off Time	1:30
Purge Time	180 min
Total Volume Purged (gal)	5
Post Purge	
Depth to Water	12.23
Water Quality	Turbid
Post Sample	
Depth to Water	8.5
Water Quality	Turbid

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-210			
Personnel:	JCS			Date:	3/6/2020	SESI CONSULTING ENGINEERS			
				PID:	0.1				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
4.5'	0.5'	18'	NE	10.14	7.86		14'		Peristaltic
Turbidity at collection (NTU):		170	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1435	4.62	7.2	0.123	19.73	208	46.5	10.25	N
	1440	4.22	6.62	0.106	10.39	221	300	10.25	N
	1445	4.4	6.26	0.088	10.42	231	259	10.25	N
	1450	4.35	6.15	0.081	9.65	238	217	10.25	N
	1455	4.34	6.08	0.081	10.33	247	176	10.25	N
	1500	4.4	6.06	0.082	10.47	250	172	10.25	N
2	1505	4.46	6.01	0.079	10.48	253	170	10.25	N

Well Condition Summary					
Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information				
Sample Time:	1510	Appearance: Brown/turbid	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK						
Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :
Sock Installation Date:			Sock Changed :		Y / N	
Sock Depth (Depth to sock mid point):						

VOLUME AVERAGING PURGING GROUNDWATER SAMPLING LOG

Location:				**Job Number:**		**WELL I.D. :**			
Personnel:				**Date:**		SESI CONSULTING ENGINEERS			
				PID:					
Stickup? Y/N **Distance ground to Stickup Rim/PVC**	**Distance From Rim to PVC**	**Total Depth of Well Rim/PVC**	**Depth to Product Rim/PVC**	**Depth to Water (Rim/PVC)**	**Standing Water Column (feet)**	**Middle of Saturated Zone (feet)**	**Depth to Sample Tube (feet)**	**TOV @ Well Head (ppmv)**	**Pump Peristaltic or Bladder**
Turbidity at collection (NTU):			**(Less than 5 NTU is desirable)**		**Duplicate Collected? Y/N**			**Filtered Sample Y/N**	
Stabilization Parameters		**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**
Volume Purged (gallons)	**Time (actual Time) 5 minute Intervals**	**TEMP. (Deg. C)**	**pH**	**Specific Conductivity uS/cm**	**Dissolved Oxygen (mg/L)**	**ORP mV millivolts**	**Turbidity NTUs**	**DTW (feet)**	**Odors Y/N**
Well Condition Summary									
Cover: Y / N		**Bolts: Y / N**		**Concrete Pad OK: Y / N**		**Gripper: Y / N**			
Sample Collection Information									
Sample Time:		**Appearance:**		**Filtered Sample Turbidity:**			**OTHER:**		

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK							
Sock Length (ft) =		**Capacity (Qt.) =**		**Present:**	**Y / N**	**Product Measured (Inches) :**	
Sock Installation Date:			**Sock Changed :**		**Y / N**		
Sock Depth (Depth to sock mid point):							

Volume Average Groundwater Purging Log
Gorssingers
Liberty, NY

Volume Average Purging Groundwater Sampling Log	
Pre Purge	
Well Name	MW-211
Well Diameter (Inches)	2
Depth to Water (ft)	9.6
Depth to Bottom (ft)	17.86
Water Column	8.26
Well Volume (gal)	1.34
Well Headspace (PID)	0.2 ppm
Pump On Time	10:00
Pump Off Time	10:50
Purge Time	50 min
Total Volume Purged (gal)	4
Post Purge	
Depth to Water	11.2
Water Quality	Turbid
Post Sample	
Depth to Water	11.2
Water Quality	Turbid

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-213			
Personnel:	JCS			Date:	3/4/2020				
				PID:	0.1				

Stickup? Y / Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
3.5'	0.3'	20.5	NE	14.85	5.65		17'		Peristaltic

Turbidity at collection (NTU):	2.1	(Less than 5 NTU is desirable)		Duplicate Collected? N		Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1355	9.95	6.01	0.414	0.93	282	4.9	14.92	N
	1400	10.91	6.03	0.403	0	257	110	14.92	N
	1405	9.32	6.03	0.423	0	216	27.4	14.92	N
	1410	9.42	6.03	0.417	0	217	9.1	14.92	N
	1415	8.89	6.02	0.424	0	220	7.1	14.92	N
	1420	8.67	6.02	0.425	0	225	3.4	14.92	N
2	1425	8.63	6.01	0.425	0	226	2.1	14.92	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1430	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-216			
Personnel:	JCS			Date:	3/6/2020				
				PID:	0.2				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
3.5'	0.5'	21'	NE	8.39'	12.61'		15'		Peristaltic
Turbidity at collection (NTU):		98.2	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	845	6.13	5.66	0.206	6.73	306	470	8.6	N
	850	5.5	6.19	0.207	6.42	294	268	8.65	N
	855	5.32	6.21	0.207	6.44	289	224	8.65	N
	900	6.65	6.2	0.206	6.31	280	207	8.65	N
	905	5.5	6.21	0.206	6.35	277	175	8.68	N
	910	5.42	6.18	0.208	6.2	274	122	8.7	N
2	915	5.44	6.17	0.21	6.11	276	98.2	8.7	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	925	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-214			
Personnel:	JCS			Date:	3/4/2020				
				PID:	0.1				

Stickup? Y / Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
3.5'	0.5'	24.7	NE	16.67	8.03		20'		Peristaltic

Turbidity at collection (NTU):	1.5	(Less than 5 NTU is desirable)	Duplicate Collected? N		Filtered Sample N	
Stabilization Parameters	**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	953	9.54	5.68	0.52	2.54	268	0	17.03	N
	958	9.07	5.78	0.528	2.6	253	0	17.03	N
	1003	8.19	5.8	0.553	3.63	248	21.5	17.03	N
	1008	8.12	5.84	0.553	3.09	245	6	17.03	N
	1013	8.2	5.87	0.55	2.52	245	3.3	17.03	N
	1018	8.29	5.87	0.547	2.46	253	2.5	17.03	N
2	1023	8.3	5.8	0.546	2.4	247	1.5	17.03	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1030	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-217			
Personnel:	JCS			Date:	3/6/2020	SESI CONSULTING ENGINEERS			
				PID:	0.2				
Stickup? Y Distance ground to PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	TOV @ Well Head (ppmv)	Pump Peristaltic or Bladder
3.5'	0.5'	22.5'	NE	10.77'	11.73'		16'		Peristaltic
Turbidity at collection (NTU):		36.7	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1020	5.99	6.86	0.575	18.19	216	174	10.82	N
	1025	5.27	7.07	0.576	12.01	177	108	10.9	N
	1030	5.64	7.16	0.573	11.22	154	88.2	10.95	N
	1035	5.69	7.15	0.564	9.52	152	67.9	10.95	N
	1040	5.71	7.14	0.557	9.91	153	52.8	10.95	N
	1045	5.71	7.12	0.557	10.02	155	47.3	10.95	N
2	1050	5.78	7.1	0.55	10.19	159	36.7	10.95	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1100	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-201			
Personnel:	JCS			Date:	9/3/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
6.5"		19	NE	13.72	5.28	16.36	16	2	Peristaltic
Turbidity at collection (NTU):		7.6	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	8.5	22.61	7.04	0.037	13.47	151	201	13.85	N
	840	21.45	5.96	0.037	5.65	232	98	13.98	N
	845	20.28	5.85	0.037	3.87	253	47.5	14.02	N
	850	19.35	5.77	0.037	3.08	269	9.5	14.02	N
	855	18.65	5.72	0.037	2.87	277	8.7	14.02	N
	900	18.18	5.65	0.041	2.8	280	8.2	14.02	N
	905	18.05	5.64	0.041	2.74	282	7.6	14.02	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	910	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-203			
Personnel:	JCS			Date:	9/2/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
2.6'		25	NE	4.77	20.23	14.8	14	2	Peristaltic
Turbidity at collection (NTU):		14.1	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1230	19.81	6.57	0.315	5.61	-34	27.7	4.85	N
	1235	18.26	5.92	0.156	4.18	41	24.1	4.85	N
	1240	18.02	5.89	0.124	3.59	238	19.5	4.85	N
	1245	17.95	5.84	0.111	3.22	260	17.2	4.85	N
	1250	17.76	5.86	0.106	3.17	263	15	4.85	N
2	1255	17.85	5.88	0.101	3.11	265	14.1	4.85	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1300	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-204			
Personnel:	JCS			Date:	9/2/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
5.1'		14	NE	6.71	7.29	10.35	10	2	Peristaltic
Turbidity at collection (NTU):		1.7	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1045	19.61	7.2	0.204	2.26	187	4.9	6.79	N
	1050	20.1	7.28	0.195	0	191	3.4	6.79	N
	1055	20.28	7.23	0.193	0	198	2	6.79	N
	1100	20.26	7.19	0.193	0	200	2.2	6.79	N
	1105	20.23	7.18	0.195	0	201	1.7	6.79	N
	1110	20.14	7.14	0.192	0	205	1.5	6.79	N
2	1115	20.04	7.12	0.19	0	207	1.7	6.79	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1120	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-205			
Personnel:	JCS			Date:	9/2/2020				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.2'		17'	NE	5.12	11.88	11.06	10	2	Peristaltic

Turbidity at collection (NTU):	14.1	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1210	21.05	7.06	0.225	3.54	6	2	5.24	N
	1215	20.89	6.78	0.209	0.29	-25	6.8	5.24	N
	1220	20.56	6.66	0.198	0	-42	5.9	5.24	N
	1225	20.32	6.58	0.19	0	-50	2.6	5.24	N
	1230	20.14	6.56	0.185	0	-52	3.3	5.24	N
2	1235	19.93	6.54	0.183	0	-55	4.8	5.24	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1240	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-206			
Personnel:	JCS			Date:	9/2/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.9'		19.5'		9.85	9.65	14.6	14	2	Peristaltic
Turbidity at collection (NTU):		9.2	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1010	19.44	8.23	0.386	3.71	72	193	9.95	N
	1015	18.24	6.67	0.398	0	127	10.9	9.95	N
	1020	18.17	6.63	0.391	0	128	25.9	9.95	N
	1025	18.08	6.61	0.388	0	135	43	9.95	N
	1030	17.67	6.65	0.39	0	141	10.2	9.95	N
2	1035	17.8	6.6	0.391	0	144	9.2	9.95	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1040	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-210			
Personnel:	JCS			Date:	9/3/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
4.5'	0.5'	18'	NE	10.77	7.23	14.3	14'	2	Peristaltic
Turbidity at collection (NTU):		1.8	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	950	18.85	6.75	0.345	11.2	235	8.8	10.85	N
	955	18.95	6.83	0.323	5.44	218	4.8	10.95	N
	1000	19.6	6.81	0.354	3.23	216	3.1	11.02	N
	1005	19.01	6.8	0.308	2.17	216	2.7	11.05	N
	1010	19.05	6.86	0.282	2.01	218	2.3	11.05	N
	1015	19.12	6.74	0.271	1.92	214	2.3	11.05	N
	1020	19.19	6.72	0.26	1.87	214	2	11.05	N
	1025	19.33	6.74	0.263	1.8	218	1.8	11.05	N
2.5	1030	19.4	6.75	0.265	1.77	220	1.8	11.05	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1035	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-207			
Personnel:	JCS			Date:	9/3/2020				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
4.4'	0.5'	15.7	NE	8.55	7.15	12.1	12'	2	Peristaltic

Turbidity at collection (NTU):	232	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1040	25.09	6.91	0.977	3.49	204	76.5	8.64	N
	1045	22.56	6.79	0.945	1.17	200	88.9	8.64	N
	1050	22.01	6.68	0.926	0.25	198	201	8.64	N
	1055	21.84	6.63	0.915	0	190	215	8.64	N
	1100	21.53	6.6	0.906	0	188	226	8.64	N
2	1105	21.2	6.58	0.893	0	184	232	8.64	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1110	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

VOLUME AVERAGING PURGING GROUNDWATER SAMPLING LOG

Location:				**Job Number:**		**WELL I.D. :**			
Personnel:				**Date:**		SESI CONSULTING ENGINEERS			
				PID:					
Stickup? Y/N **Distance ground to Stickup Rim/PVC**	**Distance From Rim to PVC**	**Total Depth of Well Rim/PVC**	**Depth to Product Rim/PVC**	**Depth to Water (Rim/PVC)**	**Standing Water Column (feet)**	**Middle of Saturated Zone (feet)**	**Depth to Sample Tube (feet)**	**TOV @ Well Head (ppmv)**	**Pump Peristaltic or Bladder**
Turbidity at collection (NTU):			**(Less than 5 NTU is desirable)**		**Duplicate Collected? Y/N**			**Filtered Sample Y/N**	
Stabilization Parameters		**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**
Volume Purged (gallons)	**Time (actual Time) 5 minute Intervals**	**TEMP. (Deg. C)**	**pH**	**Specific Conductivity uS/cm**	**Dissolved Oxygen (mg/L)**	**ORP mV millivolts**	**Turbidity NTUs**	**DTW (feet)**	**Odors Y/N**
Well Condition Summary									
Cover: Y / N		**Bolts: Y / N**		**Concrete Pad OK: Y / N**		**Gripper: Y / N**			
Sample Collection Information									
Sample Time:		**Appearance:**		**Filtered Sample Turbidity:**			**OTHER:**		

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK							
Sock Length (ft) =		**Capacity (Qt.) =**		**Present:**	**Y / N**	**Product Measured (Inches) :**	
Sock Installation Date:			**Sock Changed :**		**Y / N**		
Sock Depth (Depth to sock mid point):							

Volume Average Groundwater Purging Log
Gorssingers
Liberty, NY

Volume Average Purging Groundwater Sampling Log	
Pre Purge	
Well Name	MW-211
Well Diameter (Inches)	2
Depth to Water (ft)	11.1
Depth to Bottom (ft)	17.86
Water Column	6.76
Well Volume (gal)	1.1
Well Headspace (PID)	0 ppm
Pump On Time	1:00
Pump Off Time	1:55
Purge Time	55 min
Total Volume Purged (gal)	3.5
Post Purge	
Depth to Water	11.88
Water Quality	Turbid
Post Sample	
Depth to Water	11.88
Water Quality	Turbid

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-213			
Personnel:	JCS			Date:	9/2/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5'	0.3'	20.5	NE	15.1	5.4	17.8	17'	2	Peristaltic
Turbidity at collection (NTU):		0.9	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	910	21.06	8.27	0.621	6.51	92	1.5	15.36	N
	915	20.01	6.57	0.621	0	152	1.5	15.38	N
	920	19.14	6.42	0.627	0	181	1.3	15.4	N
	925	18.9	6.41	0.63	0	185	1.4	15.4	N
	930	18.07	6.39	0.636	0	189	1.2	15.4	N
2	935	17.8	6.37	0.637	0	192	0.9	15.4	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	940	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-214			
Personnel:	JCS			Date:	9/3/2020				
				PID:	0				

Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5'	0.5'	24.7	NE	16.75	7.95	20.7	20'	2	Peristaltic

Turbidity at collection (NTU):	1	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	850	21.22	6.88	0.784	0	133	5.8	16.85	N
	855	20.77	6.45	0.799	0	135	5.1	16.85	N
	900	20.28	6.32	0.818	0	136	4.5	16.85	N
	905	19.97	6.31	0.834	0	138	4.4	16.85	N
	910	19.63	6.3	0.84	0	140	3.6	16.85	N
	915	19.88	6.32	0.836	0	142	2.8	16.85	N
2.5	920	20	6.35	0.833	0	145	1	16.85	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	930	Appearance:	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-216			
Personnel:	JCS			Date:	9/3/2020	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5'	0.5'	21'	NE	7.65	13.35	14.3	15'	2	Peristaltic
Turbidity at collection (NTU):		1	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1300	23.11	7.34	0.348	8.9	157	31.1	7.88	N
	1305	21.5	7.13	0.385	0	175	5.6	7.88	N
	1310	20.52	7.02	0.405	0	180	4.4	7.88	N
	1315	19.84	6.95	0.411	0	185	2.4	7.88	N
	1320	19.57	6.93	0.414	0	187	2.5	7.88	N
2	1325	19.35	6.9	0.42	0	190	1.9	7.88	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1330	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present: Y / N	Product Measured (Inches) :
Sock Installation Date:			Sock Changed : Y / N		
Sock Depth (Depth to sock mid point):					

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-217			
Personnel:	JCS			Date:	9/3/2020				
				PID:	0				

Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5'	0.5'	22.5'	NE	10.26	12.24	16.38	16'	2	Peristaltic

Turbidity at collection (NTU):	3	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1130	21.74	7.35	1.06	11.7	151	5.7	10.35	N
	1135	19.84	7.4	1.09	12	132	3.3	10.51	N
	1140	19.42	7.39	1.1	9	131	2.4	10.64	N
	1145	19.73	7.38	1.08	6.72	134	337	10.64	N
	1150	19.6	7.36	1.05	6.13	149	106	10.64	N
	1155	19.13	7.25	0.936	3.12	159	113	10.64	N
	1200	18.88	7.2	0.845	2.66	162	94.7	10.64	N
	1205	18.7	7.22	0.802	2.51	163	32.9	10.66	N
	1210	19.02	7.25	0.81	2.41	165	2.8	10.66	N
3	1215	19.1	7.25	0.812	2.39	166	3	10.66	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1235	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-201			
Personnel:	JCS			Date:	4/28/2021				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
6.5"		19	NE	11.02	7.98	15.01	15	2	Peristaltic

Turbidity at collection (NTU):	0.7	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1145	15.62	5.72	0.038	10.66	230	227	11.25	N
	1150	13.71	5.09	0.037	3.95	278	196	11.25	N
	1155	11.51	5.01	0.038	4.22	291	2.7	11.25	N
	1200	11.2	4.97	0.039	4.31	296	0.6	11.25	N
2	1205	11.17	4.94	0.039	4.37	298	0.7	11.25	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1210	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-203			
Personnel:	MEM			Date:	4/28/2021				
				PID:	0.1				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
2.6'		14	NE	4.05	21.25	14.68	15	2	Peristaltic

Turbidity at collection (NTU):	1.4	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	850	11.08	6.9	0.245	0	-72	15.3	4.5	N
	855	11.12	6.9	0.23	0	-70	11.9	6.2	N
	900	11.1	6.9	0.226	0	-68	9.3	6.3	N
	905	11.24	6.9	0.215	1.07	-63	2.6	6.3	N
	910	10.99	6.84	0.21	2.7	-36	1.4	6.3	N
	915	11.01	6.83	0.209	2.68	-33	1.2	6.3	N
3.5	920	11.05	6.83	0.21	2.67	-34	1.4	6.3	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	920	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-204			
Personnel:	JCS			Date:	4/27/2021				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
5.1'		14	NE	6.73	7.29	10.35	10	2	Peristaltic

Turbidity at collection (NTU):	4.2	(Less than 5 NTU is desirable)	Duplicate Collected? N		Filtered Sample N	

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1305	15.17	7.52	0.172	0.96	139	41.8	6.79	N
	1310	15.25	7.09	0.173	0.54	144	31.5	6.79	N
	1315	14.51	6.94	0.174	0.3	147	12.9	6.79	N
	1320	13.35	6.9	0.176	0.24	149	5.2	6.79	N
	1325	13.1	6.84	0.176	0.22	148	5	6.79	N
2	1330	13.22	6.84	0.176	0.2	145	4.2	6.79	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1335	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-205			
Personnel:	JCS			Date:	4/27/2021				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.2'		17'	NE	4.17	12.83	10.58	10	2	Peristaltic

Turbidity at collection (NTU):	3.9	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1315	17.87	6.44	0.043	7.78	136	234	4.36	N
	1320	13.79	5.91	0.05	4.11	170	52.6	4.36	N
	1325	12.7	5.46	0.055	3.78	202	3.8	4.36	N
	1330	12.71	5.44	0.055	3.74	203	3.7	4.36	N
2	1335	12.69	5.44	0.055	3.7	204	3.9	4.36	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1340	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-206			
Personnel:	JCS			Date:	4/27/2021				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.9'		19.5'		8.98	10.52	14.2	14	2	Peristaltic

Turbidity at collection (NTU):	138	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1110	14.47	6.77	0.406	4.23	133	30	9.24	N
	1115	11.09	6.51	0.382	4.66	163	7.3	9.46	N
	1120	10.25	6.36	0.412	4.17	181	7.6	9.46	N
	1125	10.06	6.35	0.424	4.03	183	150	9.46	N
	1130	9.75	6.35	0.428	3.97	185	174	9.46	N
	1135	10.02	6.4	0.43	3.87	184	140	9.46	N
2.5	1140	10.04	6.41	0.432	3.84	182	138	9.46	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1145	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

VOLUME AVERAGING PURGING GROUNDWATER SAMPLING LOG

Location:				**Job Number:**		**WELL I.D. :**			
Personnel:				**Date:**		SESI CONSULTING ENGINEERS			
				PID:					
Stickup? Y/N **Distance ground to Stickup Rim/PVC**	**Distance From Rim to PVC**	**Total Depth of Well Rim/PVC**	**Depth to Product Rim/PVC**	**Depth to Water (Rim/PVC)**	**Standing Water Column (feet)**	**Middle of Saturated Zone (feet)**	**Depth to Sample Tube (feet)**	**TOV @ Well Head (ppmv)**	**Pump Peristaltic or Bladder**
Turbidity at collection (NTU):			**(Less than 5 NTU is desirable)**		**Duplicate Collected? Y/N**			**Filtered Sample Y/N**	
Stabilization Parameters		**+/- 0.5 deg C.**	**+/- 0.1 Unit**	**+/- 10 umhos/cm or within 3% if >300umho**	**1 ppm**	**+/- 10 mV**	**No Limit**	**<.3 feet drawdown desirable**	**No Limit**
Volume Purged (gallons)	**Time (actual Time) 5 minute Intervals**	**TEMP. (Deg. C)**	**pH**	**Specific Conductivity uS/cm**	**Dissolved Oxygen (mg/L)**	**ORP mV millivolts**	**Turbidity NTUs**	**DTW (feet)**	**Odors Y/N**
Well Condition Summary									
Cover: Y / N		**Bolts: Y / N**		**Concrete Pad OK: Y / N**		**Gripper: Y / N**			
Sample Collection Information									
Sample Time:		**Appearance:**		**Filtered Sample Turbidity:**			**OTHER:**		

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK							
Sock Length (ft) =		**Capacity (Qt.) =**		**Present:**	**Y / N**	**Product Measured (Inches) :**	
Sock Installation Date:			**Sock Changed :**		**Y / N**		
Sock Depth (Depth to sock mid point):							

Volume Average Groundwater Purging Log
Gorssingers
Liberty, NY

Volume Average Purging Groundwater Sampling Log	
Pre Purge	
Well Name	MW-209
Well Diameter (Inches)	2
Depth to Water (ft)	7.57
Depth to Bottom (ft)	18
Water Column	10.43
Well Volume (gal)	1.7
Well Headspace (PID)	0 ppm
Pump On Time	8:40
Pump Off Time	9:40
Purge Time	60 min
Total Volume Purged (gal)	5
Post Purge	
Depth to Water	16.53
Water Quality	Turbid
Post Sample	
Depth to Water	10.23
Water Quality	Turbid

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-207			
Personnel:	JCS			Date:	4/27/2021	SESI CONSULTING ENGINEERS			
				PID:	0				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
4.4'	0.5'	15.7	NE	8.87	6.83	12.2	12'	2	Peristaltic
Turbidity at collection (NTU):		93.8	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1105	12.02	6.96	0.159	0	92	294	9.25	N
	1110	11.31	6.56	0.212	0	114	193	9.65	N
	1115	12.39	6.5	0.185	0	123	181	9.88	N
	1120	12.02	6.49	0.174	0	125	169	9.88	N
	1125	12.82	6.5	0.173	0	126	150	9.88	N
	1130	12.58	6.51	0.172	0	128	114	9.88	N
2.5	1135	12.34	6.5	0.172	0	130	93.8	9.88	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1140	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-210			
Personnel:	MEM			Date:	4/29/2021	SESI CONSULTING ENGINEERS			
				PID:	0.1				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
4.5		18.3	NE	11.25	7.05	14.78	16	2	Peristaltic
Turbidity at collection (NTU):			(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	945	11.3	5.7	0.099	4.93	218	825	11.25	N
	950	11.12	5.7	0.092	4.95	220	502	11.75	N
	955	11.05	5.71	0.087	4.91	226	327	11.8	N
	1000	10.97	5.69	0.085	4.88	233	285	11.8	N
	1005	10.85	5.6	0.081	4.87	234	240	11.8	N
	1010	10.82	5.59	0.075	4.87	239	212	11.8	N
	1015	10.88	5.55	0.066	4,87	242	155	11.8	N
	1020	10.75	5.52	0.051	4.82	248	112	11.8	N
	1025	10.56	5.49	0.05	4.79	255	95.9	11.8	N
	1030	10.5	5.45	0.048	4.78	259	55.6	11.8	N
	1035	10.42	5.41	0.042	4.78	262	12.1	11.8	N
	1040	10.12	5.35	0.041	4.76	266	10.9	11.8	N
	1045	10.02	5.33	0.039	4.77	271	8.6	11.8	N
	1050	9.89	5.28	0.037	4.75	285	5.1	11.8	N
	1055	9.83	5.27	0.035	4.73	288	3.9	11.8	N
5	1100	9.73	5.25	0.033	4.72	294	3.3	11.8	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1100	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-211			
Personnel:	JCS			Date:	4/28/2021				
				PID:	0				

Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
4.4'	0.5'	17.86	NE	9.21	8.65	13.5	15	2	Peristaltic

Turbidity at collection (NTU):	325	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1015	10.74	5.92	0.117	5.59	238	227	9.89	N
	1020	10.65	5.74	0.141	2.52	243	442	10.25	N
	1025	10.8	5.65	0.141	2.92	249	500	11.1	N
	1030	10.7	5.61	0.142	3.19	255	636	11.9	N
	1035	11.04	5.68	0.141	3.1	254	325	12.03	N
2	1040	11.08	5.65	0.141	3.08	252	317	12.05	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1045	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-213			
Personnel:	JCS			Date:	4/27/2021				
				PID:	0				

Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5'	0.3'	20.5	NE	15.85	4.65	18.17	18	2	Peristaltic

Turbidity at collection (NTU):	0.7	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	940	10.02	8.07	0.848	0	56	4.7	15.96	N
	945	9.42	6.6	0.82	0.2	102	3.7	15.96	N
	950	9.03	6.36	0.795	0	115	1	15.96	N
	955	9.13	6.33	0.784	0	123	1.3	15.96	N
	1000	9.02	6.32	0.782	0	127	1.1	15.96	N
	1005	8.93	6.31	0.779	0	132	0.6	15.96	N
2.5	1010	9.11	6.29	0.776	0	135	0.7	15.96	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1015	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-214			
Personnel:	JCS			Date:	4/27/2021				
				PID:	0				

Stickup? Y / Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5'	0.5'	24.7	NE	16.89	7.81	20.7	20'	2	Peristaltic

Turbidity at collection (NTU):	9.8	(Less than 5 NTU is desirable)	Duplicate Collected? N	Filtered Sample N

Stabilization Parameters	+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	925	12.37	9.07	0.782	0	-32	2.4	17.02	N
	930	11.73	7.41	0.77	0	19	2.8	17.05	N
	935	10.92	6.55	0.763	0	97	3.3	17.05	N
	940	10.94	6.51	0.763	0	103	7.8	17.05	N
	945	11.03	6.49	0.759	0	105	9.5	17.05	N
2	950	12.82	6.46	0.756	0	109	9.8	17.05	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	955	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-216			
Personnel:	MEM			Date:	4/28/2021	SESI CONSULTING ENGINEERS			
				PID:	0.1				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5		20.55	NE	8.35	12.2	14.45	14	2	Peristaltic
Turbidity at collection (NTU):		8.9	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1010	10.82	6.32	0.294	2.97	169	280	8.65	N
	1015	10.6	6.19	0.344	0	206	148	8.65	N
	1020	11	6.24	0.413	0	199	115	8.65	N
	1025	11.12	6.32	0.426	0	195	96.5	8.65	N
	1030	10.97	6.33	0.436	0	201	80	8.65	N
	1035	10.99	6.34	0.445	0	202	72.2	8.65	N
	1040	11.05	6.36	0.455	0	202	58.7	8.65	N
	1045	11.09	6.8	0.46	0	201	52.6	8.65	N
	1050	11.1	6.38	0.466	0	201	45.2	8.65	N
	1055	11.12	6.39	0.482	0	200	40.5	8.65	N
	1100	11.12	6.42	0.493	0	200	37.1	8.65	N
	1105	11.12	6.42	0.496	0	200	26.2	8.65	N
	1110	11.12	6.42	0.497	0	200	9.7	8.65	N
	1115	11.12	6.42	0.497	0	200	9.3	8.65	N
5	1120	11.12	6.42	0.497	0	200	8.9	8.65	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1220	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

LOW-FLOW GROUNDWATER SAMPLING LOG

Location:	Liberty, NY			Job Number:	9313	WELL I.D. : MW-217			
Personnel:	MEM			Date:	4/28/2021	SESI CONSULTING ENGINEERS			
				PID:	0.1				
Stickup? Y Distance ground to Stickup Rim/PVC	Distance From Rim to PVC	Total Depth of Well Rim/PVC	Depth to Product Rim/PVC	Depth to Water (Rim/PVC)	Standing Water Column (feet)	Middle of Saturated Zone (feet)	Depth to Sample Tube (feet)	Well Diameter (Inches)	Pump Peristaltic or Bladder
3.5		19.9	NE	11	8.9	15.45	15	2	Peristaltic
Turbidity at collection (NTU):		6.1	(Less than 5 NTU is desirable)		Duplicate Collected? N			Filtered Sample N	
Stabilization Parameters		+/- 0.5 deg C.	+/- 0.1 Unit	+/- 10 umhos/cm or within 3% if >300umho	1 ppm	+/- 10 mV	No Limit	<.3 feet drawdown desirable	No Limit

Volume Purged (gallons)	Time (actual Time) 5 minute Intervals	TEMP. (Deg. C)	pH	Specific Conductivity uS/cm	Dissolved Oxygen (mg/L)	ORP mV millivolts	Turbidity NTUs	DTW (feet)	Odors Y/N
	1150	10.69	6.84	0.554	5.29	193	245	11.15	N
	1155	10.66	6.64	0.493	4.77	201	172	11.15	N
	1200	10.58	6.44	0.462	3.17	210	111	11.15	N
	1205	10.65	6.31	0.427	2.73	219	65.1	11.15	N
	1210	10.81	6.25	0.414	2.64	223	49.2	11.15	N
	1215	11	6.22	0.402	2.53	227	27.9	11.15	N
	1220	11.04	6.17	0.396	2.4	231	16.2	11.15	N
	1225	11.21	6.17	0.392	2.44	232	10.2	11.15	N
	1230	11.29	6.17	0.39	2.41	232	6.7	11.15	N
	1235	11.31	6.17	0.389	2.4	232	6.3	11.15	N
4	1240	11.31	6.17	0.389	2.4	232	6.1	11.15	N

Well Condition Summary

Cover: Y	Bolts: Y		Concrete Pad OK: Y	Gripper: Y	

Sample Collection Information

Sample Time:	1240	Appearance: Clear	Filtered Sample Turbidity:	OTHER:

Desired purge flow rate <100mL/min (slow drip) & turbidity <10 if possible. If turbidity > 10 collect filtered and unfiltered samples. Notify PM of high turbidity and collection of filtered samples prior to lab submittal. Minimum 20 minute purge to establish stabilization.

Notes/ Calculations:

Volume? Linear Ft of well casing; 1"=0.041 gal. 2"= 0.163 gal. 4"=0.653 gal.

ABSORBENT SOCK

Sock Length (ft) =		Capacity (Qt.) =		Present:	Y / N	Product Measured (Inches) :	
Sock Installation Date:			Sock Changed :		Y / N		
Sock Depth (Depth to sock mid point):							

Appendix C:

Groundwater Laboratory Data

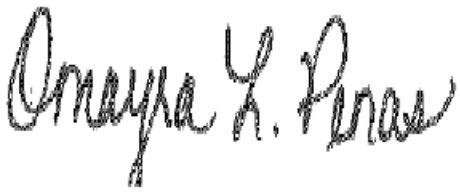
ANALYTICAL REPORT

Job Number: 460-217547-1

Job Description: Grossingers

For:
SESI Consulting Engineers
12 A Maple Avenue
Building B
Pine Brook, NJ 07058

Attention: Fuad Dahan



Approved for release.
Omayra Penas
Senior Project Manager
9/15/2020 10:01 AM

Omayra Penas, Senior Project Manager
777 New Durham Road, Edison, NJ, 08817
(732)593-2538
Omayra.Penas@Eurofinset.com
09/15/2020

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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CASE NARRATIVE

Client: SESI Consulting Engineers

Project: Grossingers

Report Number: 460-217547-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/03/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-203 (460-217547-1), MW-204 (460-217547-2), MW-205 (460-217547-3), MW-206 (460-217547-4), MW-213 (460-217547-5), DUP (460-217547-6), FB (460-217547-7) and TB (460-217547-8) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 09/09/2020 and 09/10/2020.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-722597 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-722597 was outside the method criteria for the following analyte(s): 1,2,3-Trichlorobenzene (biased low); Bromomethane and Methyl acetate (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Several analytes failed the recovery criteria high for the MS of sample 460-217576-4 in batch 460-722834.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Samples MW-203 (460-217547-1), MW-204 (460-217547-2), MW-205 (460-217547-3), MW-206 (460-217547-4), MW-213 (460-217547-5), DUP (460-217547-6) and FB (460-217547-7) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC. The samples were prepared on 09/09/2020 and 09/10/2020 and analyzed on 09/10/2020 and 09/11/2020.

Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS and M2-8:2 FTS for the following sample: MW-203 (460-217547-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for M2-6:2 FTS for the following sample: MW-213 (460-217547-5). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Perfluorobutanoic acid (PFBA), Perfluorohexanesulfonic acid (PFHxS) and Perfluorooctanesulfonamide (FOSA) were detected in method

blank MB 320-410910/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Perfluorohexanesulfonic acid (PFHxS) was detected in method blank MB 320-411226/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the PFAS analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: SESI Consulting Engineers
Job ID: 460-217547-1
Project/Site: Grossingers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-217547-1	MW-203	Water	09/02/20 13:00	09/03/20 16:45	
460-217547-2	MW-204	Water	09/02/20 11:30	09/03/20 16:45	
460-217547-3	MW-205	Water	09/02/20 12:40	09/03/20 16:45	
460-217547-4	MW-206	Water	09/02/20 10:40	09/03/20 16:45	
460-217547-5	MW-213	Water	09/02/20 09:40	09/03/20 16:45	
460-217547-6	DUP	Water	09/02/20 00:00	09/03/20 16:45	
460-217547-7	FB	Water	09/02/20 14:30	09/03/20 16:45	
460-217547-8	TB	Water	09/02/20 14:30	09/03/20 16:45	

Detection Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217547-1

Client Sample ID: MW-203 — Lab Sample ID: 460-217547-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.2	J	5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	5.3		5.0	4.4	ug/L	1		8260C	Total/NA
Cyclohexane	0.57	J	1.0	0.32	ug/L	1		8260C	Total/NA
Ethylbenzene	0.55	J	1.0	0.30	ug/L	1		8260C	Total/NA
Isopropylbenzene	0.68	J	1.0	0.34	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.48	J	1.0	0.26	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	2.13	B	2.00	0.35	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.71	J	2.00	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.03		2.00	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.57	J	2.00	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.15		2.00	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.76	J	2.00	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.35	J	2.00	0.31	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.47	J B	2.00	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25.0		2.00	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	2.31	B	2.00	0.35	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.65	J	20.0	1.90	ng/L	1		537 (modified)	Total/NA
6:2 FTS	11.1	J	20.0	2.00	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-204 — Lab Sample ID: 460-217547-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.11	B	1.96	0.34	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.26	J	1.96	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.14	J	1.96	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.02	J	1.96	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.94		1.96	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.46	J	1.96	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.64	J	1.96	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.08	J B	1.96	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12.1		1.96	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.57	J B	1.96	0.34	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.02	J	19.6	1.96	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-205 — Lab Sample ID: 460-217547-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.59	J B	1.99	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.20	J	1.99	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.44	J B	1.99	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.93	J	1.99	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-206 — Lab Sample ID: 460-217547-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.60	J	1.0	0.31	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	5.79		1.76	0.31	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.83		1.76	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.28		1.76	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.47		1.76	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12.1		1.76	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.75	J	1.76	0.24	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-206 (Continued) — Lab Sample ID: 460-217547-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.45	J	1.76	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.06	J	1.76	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.93	B	1.76	0.15	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.43	J	1.76	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	38.7		1.76	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.66	J	1.76	0.31	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.24	J	17.6	1.76	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-213 — Lab Sample ID: 460-217547-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	40		1.0	0.31	ug/L	1		8260C	Total/NA
Methylene Chloride	0.44	J	1.0	0.32	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	56		1.0	0.32	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	12.4	B	1.88	0.33	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.81		1.88	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.64		1.88	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.13		1.88	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	26.5		1.88	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.51		1.88	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.61	J	1.88	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.27		1.88	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.94	B	1.88	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.79	J	1.88	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	60.7		1.88	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.76	J B	1.88	0.33	ng/L	1		537 (modified)	Total/NA
6:2 FTS	2.14	J	18.8	1.88	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP — Lab Sample ID: 460-217547-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.70	J B	1.99	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.37	J B	1.99	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.79	J	1.99	0.54	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB — Lab Sample ID: 460-217547-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.83	J	1.0	0.32	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.35	J B	1.96	0.34	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.27	J B	1.96	0.17	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TB — Lab Sample ID: 460-217547-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217547-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample ID: MW-203

Date Collected: 09/02/20 13:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/10/20 00:42	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/10/20 00:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/10/20 00:42	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/10/20 00:42	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/10/20 00:42	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/10/20 00:42	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/10/20 00:42	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/10/20 00:42	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/10/20 00:42	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/10/20 00:42	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/10/20 00:42	1
1,4-Dioxane	28	U	50	28	ug/L			09/10/20 00:42	1
2-Butanone (MEK)	**2.2**	**J**	5.0	1.9	ug/L			09/10/20 00:42	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/10/20 00:42	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/10/20 00:42	1
Acetone	**5.3**		5.0	4.4	ug/L			09/10/20 00:42	1
Benzene	0.20	U	1.0	0.20	ug/L			09/10/20 00:42	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/10/20 00:42	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/10/20 00:42	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/10/20 00:42	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/10/20 00:42	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/10/20 00:42	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/10/20 00:42	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/10/20 00:42	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/10/20 00:42	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/10/20 00:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/10/20 00:42	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/10/20 00:42	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/10/20 00:42	1
Cyclohexane	**0.57**	**J**	1.0	0.32	ug/L			09/10/20 00:42	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/10/20 00:42	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/10/20 00:42	1
Ethylbenzene	**0.55**	**J**	1.0	0.30	ug/L			09/10/20 00:42	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/10/20 00:42	1
Isopropylbenzene	**0.68**	**J**	1.0	0.34	ug/L			09/10/20 00:42	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/10/20 00:42	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/10/20 00:42	1
Methylcyclohexane	**0.48**	**J**	1.0	0.26	ug/L			09/10/20 00:42	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/10/20 00:42	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/10/20 00:42	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/10/20 00:42	1
Styrene	0.42	U	1.0	0.42	ug/L			09/10/20 00:42	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/10/20 00:42	1
Toluene	0.38	U	1.0	0.38	ug/L			09/10/20 00:42	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/10/20 00:42	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/10/20 00:42	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/10/20 00:42	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/10/20 00:42	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/10/20 00:42	1

Client Sample ID: MW-203

Date Collected: 09/02/20 13:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/10/20 00:42	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/10/20 00:42	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/10/20 00:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/10/20 00:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*		*09/10/20 00:42*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*09/10/20 00:42*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/10/20 00:42*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/10/20 00:42*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.13**	**B**	2.00	0.35	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluoropentanoic acid (PFPeA)	**1.71**	**J**	2.00	0.49	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorohexanoic acid (PFHxA)	**2.03**		2.00	0.58	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluoroheptanoic acid (PFHpA)	**1.57**	**J**	2.00	0.25	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorooctanoic acid (PFOA)	**5.15**		2.00	0.85	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorononanoic acid (PFNA)	**0.76**	**J**	2.00	0.27	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorodecanoic acid (PFDA)	**0.35**	**J**	2.00	0.31	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorohexanesulfonic acid (PFHxS)	**1.47**	**J B**	2.00	0.17	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorooctanesulfonic acid (PFOS)	**25.0**		2.00	0.54	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32	ng/L		09/09/20 18:52	09/11/20 12:41	1
Perfluorooctanesulfonamide (FOSA)	**2.31**	**B**	2.00	0.35	ng/L		09/09/20 18:52	09/11/20 12:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10	ng/L		09/09/20 18:52	09/11/20 12:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**5.65**	**J**	20.0	1.90	ng/L		09/09/20 18:52	09/11/20 12:41	1
6:2 FTS	**11.1**	**J**	20.0	2.00	ng/L		09/09/20 18:52	09/11/20 12:41	1
8:2 FTS	2.00	U	20.0	2.00	ng/L		09/09/20 18:52	09/11/20 12:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*36*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C5 PFPeA	*57*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C2 PFHxA	*67*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C4 PFHpA	*77*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C4 PFOA	*82*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C5 PFNA	*86*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C2 PFDA	*81*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C2 PFUnA	*75*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*

Client Sample ID: MW-203

Date Collected: 09/02/20 13:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDoA	*74*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C2 PFTeDA	*69*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C3 PFBS	*93*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
18O2 PFHxS	*100*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C4 PFOS	*97*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
13C8 FOSA	*75*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
d3-NMeFOSAA	*73*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
d5-NEtFOSAA	*76*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
M2-6:2 FTS	*213*	**5*	*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*
M2-8:2 FTS	*166*	**5*	*25 - 150*	*09/09/20 18:52*	*09/11/20 12:41*	*1*

Client Sample ID: MW-204

Date Collected: 09/02/20 11:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 06:21	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 06:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 06:21	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 06:21	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 06:21	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 06:21	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 06:21	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 06:21	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 06:21	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 06:21	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 06:21	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 06:21	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 06:21	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 06:21	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 06:21	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 06:21	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 06:21	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 06:21	1
Bromomethane	0.55	U *	1.0	0.55	ug/L			09/09/20 06:21	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 06:21	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 06:21	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 06:21	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 06:21	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 06:21	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 06:21	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 06:21	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 06:21	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 06:21	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 06:21	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 06:21	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 06:21	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 06:21	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 06:21	1

Client Sample ID: MW-204

Date Collected: 09/02/20 11:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 06:21	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 06:21	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 06:21	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 06:21	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 06:21	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 06:21	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 06:21	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 06:21	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 06:21	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 06:21	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 06:21	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 06:21	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 06:21	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 06:21	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 06:21	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 06:21	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 06:21	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 06:21	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 06:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 06:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*09/09/20 06:21*	*1*
4-Bromofluorobenzene	*110*		*76 - 120*		*09/09/20 06:21*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 124*		*09/09/20 06:21*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/09/20 06:21*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.11**	**B**	1.96	0.34	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluoropentanoic acid (PFPeA)	**1.26**	**J**	1.96	0.48	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorohexanoic acid (PFHxA)	**1.14**	**J**	1.96	0.57	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluoroheptanoic acid (PFHpA)	**1.02**	**J**	1.96	0.24	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorooctanoic acid (PFOA)	**3.94**		1.96	0.83	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorononanoic acid (PFNA)	**0.46**	**J**	1.96	0.26	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorodecanoic acid (PFDA)	0.30	U	1.96	0.30	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluoroundecanoic acid (PFUnA)	1.08	U	1.96	1.08	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorododecanoic acid (PFDoA)	0.54	U	1.96	0.54	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorotridecanoic acid (PFTriA)	1.27	U	1.96	1.27	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.96	0.28	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorobutanesulfonic acid (PFBS)	**0.64**	**J**	1.96	0.20	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorohexanesulfonic acid (PFHxS)	**1.08**	**J B**	1.96	0.17	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.96	0.19	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorooctanesulfonic acid (PFOS)	**12.1**		1.96	0.53	ng/L		09/09/20 18:52	09/11/20 12:50	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.96	0.31	ng/L		09/09/20 18:52	09/11/20 12:50	1

Client Sample ID: MW-204

Date Collected: 09/02/20 11:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	**0.57**	**J B**	1.96	0.34	ng/L		09/09/20 18:52	09/11/20 12:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.03	U	19.6	3.03	ng/L		09/09/20 18:52	09/11/20 12:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.86	U	19.6	1.86	ng/L		09/09/20 18:52	09/11/20 12:50	1
6:2 FTS	**2.02**	**J**	19.6	1.96	ng/L		09/09/20 18:52	09/11/20 12:50	1
8:2 FTS	1.96	U	19.6	1.96	ng/L		09/09/20 18:52	09/11/20 12:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*39*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C5 PFPeA	*54*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C2 PFHxA	*63*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C4 PFHpA	*66*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C4 PFOA	*66*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C5 PFNA	*70*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C2 PFDA	*70*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C2 PFUnA	*69*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C2 PFDoA	*70*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C2 PFTeDA	*58*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C3 PFBS	*91*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
18O2 PFHxS	*90*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C4 PFOS	*87*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
13C8 FOSA	*66*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
d3-NMeFOSAA	*56*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
d5-NEtFOSAA	*67*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
M2-6:2 FTS	*143*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*
M2-8:2 FTS	*113*		*25 - 150*	*09/09/20 18:52*	*09/11/20 12:50*	*1*

Client Sample ID: MW-205

Date Collected: 09/02/20 12:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 06:44	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 06:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 06:44	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 06:44	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 06:44	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 06:44	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 06:44	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 06:44	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 06:44	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 06:44	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 06:44	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 06:44	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 06:44	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 06:44	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 06:44	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 06:44	1

Client Sample ID: MW-205

Date Collected: 09/02/20 12:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 06:44	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 06:44	1
Bromomethane	0.55	U *	1.0	0.55	ug/L			09/09/20 06:44	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 06:44	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 06:44	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 06:44	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 06:44	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 06:44	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 06:44	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 06:44	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 06:44	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 06:44	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 06:44	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 06:44	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 06:44	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 06:44	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 06:44	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 06:44	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 06:44	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 06:44	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 06:44	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 06:44	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 06:44	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 06:44	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 06:44	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 06:44	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 06:44	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 06:44	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 06:44	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 06:44	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 06:44	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 06:44	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 06:44	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 06:44	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 06:44	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 06:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 06:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*		*09/09/20 06:44*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*09/09/20 06:44*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/09/20 06:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/09/20 06:44*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.59**	**J B**	1.99	0.35	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluoropentanoic acid (PFPeA)	0.49	U	1.99	0.49	ng/L		09/09/20 18:52	09/11/20 13:00	1

Client Sample ID: MW-205

Date Collected: 09/02/20 12:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.58	U	1.99	0.58	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	1.99	0.25	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorooctanoic acid (PFOA)	0.84	U	1.99	0.84	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorononanoic acid (PFNA)	0.27	U	1.99	0.27	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorodecanoic acid (PFDA)	0.31	U	1.99	0.31	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluoroundecanoic acid (PFUnA)	1.09	U	1.99	1.09	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorododecanoic acid (PFDoA)	0.55	U	1.99	0.55	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorotridecanoic acid (PFTriA)	1.29	U	1.99	1.29	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	1.99	0.29	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorobutanesulfonic acid (PFBS)	**0.20**	**J**	1.99	0.20	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorohexanesulfonic acid (PFHxS)	**0.44**	**J B**	1.99	0.17	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.99	0.19	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorooctanesulfonic acid (PFOS)	**0.93**	**J**	1.99	0.54	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	1.99	0.32	ng/L		09/09/20 18:52	09/11/20 13:00	1
Perfluorooctanesulfonamide (FOSA)	0.35	U	1.99	0.35	ng/L		09/09/20 18:52	09/11/20 13:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.08	U	19.9	3.08	ng/L		09/09/20 18:52	09/11/20 13:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89	U	19.9	1.89	ng/L		09/09/20 18:52	09/11/20 13:00	1
6:2 FTS	1.99	U	19.9	1.99	ng/L		09/09/20 18:52	09/11/20 13:00	1
8:2 FTS	1.99	U	19.9	1.99	ng/L		09/09/20 18:52	09/11/20 13:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*58*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C5 PFPeA	*77*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C2 PFHxA	*86*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C4 PFHpA	*88*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C4 PFOA	*92*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C5 PFNA	*91*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C2 PFDA	*84*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C2 PFUnA	*91*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C2 PFDoA	*71*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C2 PFTeDA	*84*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C3 PFBS	*92*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
18O2 PFHxS	*95*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C4 PFOS	*94*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
13C8 FOSA	*77*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
d3-NMeFOSAA	*68*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
d5-NEtFOSAA	*74*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
M2-6:2 FTS	*101*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*
M2-8:2 FTS	*101*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:00*	*1*

Client Sample ID: MW-206

Date Collected: 09/02/20 10:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/10/20 01:06	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/10/20 01:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/10/20 01:06	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/10/20 01:06	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/10/20 01:06	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/10/20 01:06	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/10/20 01:06	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/10/20 01:06	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/10/20 01:06	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/10/20 01:06	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/10/20 01:06	1
1,4-Dioxane	28	U	50	28	ug/L			09/10/20 01:06	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/10/20 01:06	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/10/20 01:06	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/10/20 01:06	1
Acetone	4.4	U	5.0	4.4	ug/L			09/10/20 01:06	1
Benzene	0.20	U	1.0	0.20	ug/L			09/10/20 01:06	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/10/20 01:06	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/10/20 01:06	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/10/20 01:06	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/10/20 01:06	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/10/20 01:06	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/10/20 01:06	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/10/20 01:06	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/10/20 01:06	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/10/20 01:06	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/10/20 01:06	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/10/20 01:06	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/10/20 01:06	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/10/20 01:06	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/10/20 01:06	1
Dichlorodifluoromethane	**0.60**	**J**	1.0	0.31	ug/L			09/10/20 01:06	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/10/20 01:06	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/10/20 01:06	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/10/20 01:06	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/10/20 01:06	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/10/20 01:06	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/10/20 01:06	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/10/20 01:06	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/10/20 01:06	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/10/20 01:06	1
Styrene	0.42	U	1.0	0.42	ug/L			09/10/20 01:06	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/10/20 01:06	1
Toluene	0.38	U	1.0	0.38	ug/L			09/10/20 01:06	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/10/20 01:06	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/10/20 01:06	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/10/20 01:06	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/10/20 01:06	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/10/20 01:06	1

Client Sample ID: MW-206

Date Collected: 09/02/20 10:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/10/20 01:06	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/10/20 01:06	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/10/20 01:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/10/20 01:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*09/10/20 01:06*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*09/10/20 01:06*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/10/20 01:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/10/20 01:06*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.79**		1.76	0.31	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluoropentanoic acid (PFPeA)	**1.83**		1.76	0.43	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorohexanoic acid (PFHxA)	**2.28**		1.76	0.51	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluoroheptanoic acid (PFHpA)	**2.47**		1.76	0.22	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorooctanoic acid (PFOA)	**12.1**		1.76	0.75	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorononanoic acid (PFNA)	**0.75**	**J**	1.76	0.24	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorodecanoic acid (PFDA)	**0.45**	**J**	1.76	0.27	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluoroundecanoic acid (PFUnA)	0.97	U	1.76	0.97	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorododecanoic acid (PFDoA)	0.48	U	1.76	0.48	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorotridecanoic acid (PFTriA)	1.15	U	1.76	1.15	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.76	0.26	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorobutanesulfonic acid (PFBS)	**1.06**	**J**	1.76	0.18	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorohexanesulfonic acid (PFHxS)	**1.93**	**B**	1.76	0.15	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.43**	**J**	1.76	0.17	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorooctanesulfonic acid (PFOS)	**38.7**		1.76	0.48	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorodecanesulfonic acid (PFDS)	0.28	U	1.76	0.28	ng/L		09/10/20 18:32	09/11/20 15:25	1
Perfluorooctanesulfonamide (FOSA)	**0.66**	**J**	1.76	0.31	ng/L		09/10/20 18:32	09/11/20 15:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.73	U	17.6	2.73	ng/L		09/10/20 18:32	09/11/20 15:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.67	U	17.6	1.67	ng/L		09/10/20 18:32	09/11/20 15:25	1
6:2 FTS	**2.24**	**J**	17.6	1.76	ng/L		09/10/20 18:32	09/11/20 15:25	1
8:2 FTS	1.76	U	17.6	1.76	ng/L		09/10/20 18:32	09/11/20 15:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*57*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C5 PFPeA	*70*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C2 PFHxA	*78*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C4 PFHpA	*80*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C4 PFOA	*81*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C5 PFNA	*87*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C2 PFDA	*80*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C2 PFUnA	*75*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*

Client Sample ID: MW-206
Lab Sample ID: 460-217547-4

Date Collected: 09/02/20 10:40
Matrix: Water
Date Received: 09/03/20 16:45

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDoA	*70*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C2 PFTeDA	*64*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C3 PFBS	*81*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
18O2 PFHxS	*86*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C4 PFOS	*82*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
13C8 FOSA	*74*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
d3-NMeFOSAA	*67*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
d5-NEtFOSAA	*71*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*
M2-8:2 FTS	*93*		*25 - 150*	*09/10/20 18:32*	*09/11/20 15:25*	*1*

Client Sample ID: MW-213
Lab Sample ID: 460-217547-5

Date Collected: 09/02/20 09:40
Matrix: Water
Date Received: 09/03/20 16:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 11:42	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 11:42	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 11:42	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 11:42	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 11:42	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 11:42	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 11:42	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 11:42	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 11:42	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 11:42	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 11:42	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 11:42	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 11:42	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 11:42	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 11:42	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 11:42	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 11:42	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 11:42	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 11:42	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 11:42	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 11:42	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 11:42	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 11:42	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 11:42	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 11:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 11:42	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 11:42	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 11:42	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 11:42	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 11:42	1
Dichlorodifluoromethane	**40**		1.0	0.31	ug/L			09/09/20 11:42	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 11:42	1

Client Sample ID: MW-213

Date Collected: 09/02/20 09:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 11:42	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 11:42	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 11:42	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 11:42	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 11:42	1
Methylene Chloride	**0.44**	**J**	1.0	0.32	ug/L			09/09/20 11:42	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 11:42	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 11:42	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 11:42	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 11:42	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 11:42	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 11:42	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 11:42	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 11:42	1
Trichlorofluoromethane	**56**		1.0	0.32	ug/L			09/09/20 11:42	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 11:42	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 11:42	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 11:42	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 11:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorodichloromethane	*27*	*J N*	*ug/L*		*1.19*	*75-43-4*		*09/09/20 11:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*09/09/20 11:42*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*09/09/20 11:42*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/09/20 11:42*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/09/20 11:42*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**12.4**	**B**	1.88	0.33	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluoropentanoic acid (PFPeA)	**7.81**		1.88	0.46	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorohexanoic acid (PFHxA)	**8.64**		1.88	0.55	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluoroheptanoic acid (PFHpA)	**6.13**		1.88	0.24	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorooctanoic acid (PFOA)	**26.5**		1.88	0.80	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorononanoic acid (PFNA)	**2.51**		1.88	0.25	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorodecanoic acid (PFDA)	**1.61**	**J**	1.88	0.29	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluoroundecanoic acid (PFUnA)	1.04	U	1.88	1.04	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorododecanoic acid (PFDoA)	0.52	U	1.88	0.52	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorotridecanoic acid (PFTriA)	1.22	U	1.88	1.22	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.88	0.27	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorobutanesulfonic acid (PFBS)	**2.27**		1.88	0.19	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorohexanesulfonic acid (PFHxS)	**4.94**	**B**	1.88	0.16	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.79**	**J**	1.88	0.18	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorooctanesulfonic acid (PFOS)	**60.7**		1.88	0.51	ng/L		09/09/20 18:52	09/11/20 13:09	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.88	0.30	ng/L		09/09/20 18:52	09/11/20 13:09	1

Client Sample ID: MW-213

Date Collected: 09/02/20 09:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-5

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	**1.76**	**J B**	1.88	0.33	ng/L		09/09/20 18:52	09/11/20 13:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.92	U	18.8	2.92	ng/L		09/09/20 18:52	09/11/20 13:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79	U	18.8	1.79	ng/L		09/09/20 18:52	09/11/20 13:09	1
6:2 FTS	**2.14**	**J**	18.8	1.88	ng/L		09/09/20 18:52	09/11/20 13:09	1
8:2 FTS	1.88	U	18.8	1.88	ng/L		09/09/20 18:52	09/11/20 13:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*49*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C5 PFPeA	*68*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C2 PFHxA	*81*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C4 PFHpA	*91*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C4 PFOA	*91*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C5 PFNA	*94*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C2 PFDA	*100*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C2 PFUnA	*89*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C2 PFDoA	*72*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C3 PFBS	*88*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
18O2 PFHxS	*92*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C4 PFOS	*88*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
13C8 FOSA	*72*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
d3-NMeFOSAA	*61*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
d5-NEtFOSAA	*71*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
M2-6:2 FTS	*157*	**5*	*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*
M2-8:2 FTS	*113*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:09*	*1*

Client Sample ID: DUP

Date Collected: 09/02/20 00:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/10/20 00:18	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/10/20 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/10/20 00:18	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/10/20 00:18	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/10/20 00:18	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/10/20 00:18	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/10/20 00:18	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/10/20 00:18	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/10/20 00:18	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/10/20 00:18	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/10/20 00:18	1
1,4-Dioxane	28	U	50	28	ug/L			09/10/20 00:18	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/10/20 00:18	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/10/20 00:18	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/10/20 00:18	1
Acetone	4.4	U	5.0	4.4	ug/L			09/10/20 00:18	1

Client Sample ID: DUP

Date Collected: 09/02/20 00:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			09/10/20 00:18	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/10/20 00:18	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/10/20 00:18	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/10/20 00:18	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/10/20 00:18	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/10/20 00:18	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/10/20 00:18	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/10/20 00:18	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/10/20 00:18	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/10/20 00:18	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/10/20 00:18	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/10/20 00:18	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/10/20 00:18	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/10/20 00:18	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/10/20 00:18	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/10/20 00:18	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/10/20 00:18	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/10/20 00:18	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/10/20 00:18	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/10/20 00:18	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/10/20 00:18	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/10/20 00:18	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/10/20 00:18	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/10/20 00:18	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/10/20 00:18	1
Styrene	0.42	U	1.0	0.42	ug/L			09/10/20 00:18	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/10/20 00:18	1
Toluene	0.38	U	1.0	0.38	ug/L			09/10/20 00:18	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/10/20 00:18	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/10/20 00:18	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/10/20 00:18	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/10/20 00:18	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/10/20 00:18	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/10/20 00:18	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/10/20 00:18	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/10/20 00:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/10/20 00:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*09/10/20 00:18*	*1*
4-Bromofluorobenzene	*104*		*76 - 120*		*09/10/20 00:18*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*09/10/20 00:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/10/20 00:18*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.70**	**J B**	1.99	0.35	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluoropentanoic acid (PFPeA)	0.49	U	1.99	0.49	ng/L		09/09/20 18:52	09/11/20 13:18	1

Client Sample ID: DUP

Lab Sample ID: 460-217547-6

Date Collected: 09/02/20 00:00

Matrix: Water

Date Received: 09/03/20 16:45

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.58	U	1.99	0.58	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	1.99	0.25	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorooctanoic acid (PFOA)	0.85	U	1.99	0.85	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorononanoic acid (PFNA)	0.27	U	1.99	0.27	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorodecanoic acid (PFDA)	0.31	U	1.99	0.31	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	1.99	1.10	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorododecanoic acid (PFDoA)	0.55	U	1.99	0.55	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorotridecanoic acid (PFTriA)	1.30	U	1.99	1.30	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	1.99	0.29	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.99	0.20	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorohexanesulfonic acid (PFHxS)	**0.37**	**J B**	1.99	0.17	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.99	0.19	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorooctanesulfonic acid (PFOS)	**0.79**	**J**	1.99	0.54	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	1.99	0.32	ng/L		09/09/20 18:52	09/11/20 13:18	1
Perfluorooctanesulfonamide (FOSA)	0.35	U	1.99	0.35	ng/L		09/09/20 18:52	09/11/20 13:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.09	U	19.9	3.09	ng/L		09/09/20 18:52	09/11/20 13:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89	U	19.9	1.89	ng/L		09/09/20 18:52	09/11/20 13:18	1
6:2 FTS	1.99	U	19.9	1.99	ng/L		09/09/20 18:52	09/11/20 13:18	1
8:2 FTS	1.99	U	19.9	1.99	ng/L		09/09/20 18:52	09/11/20 13:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*60*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C5 PFPeA	*79*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C2 PFHxA	*92*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C4 PFHpA	*85*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C4 PFOA	*90*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C5 PFNA	*93*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C2 PFDA	*99*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C2 PFUnA	*93*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C2 PFDoA	*81*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C2 PFTeDA	*97*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C3 PFBS	*90*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
18O2 PFHxS	*95*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C4 PFOS	*95*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
13C8 FOSA	*79*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
d3-NMeFOSAA	*68*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
d5-NEtFOSAA	*74*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
M2-6:2 FTS	*108*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*09/09/20 18:52*	*09/11/20 13:18*	*1*

Client Sample ID: FB

Lab Sample ID: 460-217547-7

Date Collected: 09/02/20 14:30

Matrix: Water

Date Received: 09/03/20 16:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 02:49	1

Client Sample ID: FB

Date Collected: 09/02/20 14:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 02:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:49	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 02:49	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 02:49	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 02:49	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 02:49	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 02:49	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 02:49	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:49	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 02:49	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 02:49	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 02:49	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 02:49	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 02:49	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 02:49	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 02:49	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 02:49	1
Bromomethane	0.55	U *	1.0	0.55	ug/L			09/09/20 02:49	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 02:49	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 02:49	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 02:49	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 02:49	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 02:49	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:49	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 02:49	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 02:49	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 02:49	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 02:49	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 02:49	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 02:49	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:49	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 02:49	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 02:49	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:49	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 02:49	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 02:49	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 02:49	1
Methylene Chloride	**0.83**	**J**	1.0	0.32	ug/L			09/09/20 02:49	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 02:49	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 02:49	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 02:49	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 02:49	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 02:49	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 02:49	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 02:49	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 02:49	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:49	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 02:49	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 02:49	1

Client Sample ID: FB

Date Collected: 09/02/20 14:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 02:49	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 02:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 02:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 123*		*09/09/20 02:49*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*09/09/20 02:49*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*09/09/20 02:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/09/20 02:49*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.35**	**J B**	1.96	0.34	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluoropentanoic acid (PFPeA)	0.48	U	1.96	0.48	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorohexanoic acid (PFHxA)	0.57	U	1.96	0.57	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	1.96	0.25	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorooctanoic acid (PFOA)	0.83	U	1.96	0.83	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorononanoic acid (PFNA)	0.27	U	1.96	0.27	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorodecanoic acid (PFDA)	0.30	U	1.96	0.30	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluoroundecanoic acid (PFUnA)	1.08	U	1.96	1.08	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorododecanoic acid (PFDoA)	0.54	U	1.96	0.54	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorotridecanoic acid (PFTriA)	1.28	U	1.96	1.28	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.96	0.28	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.96	0.20	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorohexanesulfonic acid (PFHxS)	**0.27**	**J B**	1.96	0.17	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.96	0.19	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorooctanesulfonic acid (PFOS)	0.53	U	1.96	0.53	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.96	0.31	ng/L		09/09/20 18:52	09/10/20 15:38	1
Perfluorooctanesulfonamide (FOSA)	0.34	U	1.96	0.34	ng/L		09/09/20 18:52	09/10/20 15:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.05	U	19.6	3.05	ng/L		09/09/20 18:52	09/10/20 15:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.87	U	19.6	1.87	ng/L		09/09/20 18:52	09/10/20 15:38	1
6:2 FTS	1.96	U	19.6	1.96	ng/L		09/09/20 18:52	09/10/20 15:38	1
8:2 FTS	1.96	U	19.6	1.96	ng/L		09/09/20 18:52	09/10/20 15:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C5 PFPeA	*90*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C2 PFHxA	*102*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C4 PFHpA	*101*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C4 PFOA	*100*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C5 PFNA	*102*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C2 PFDA	*106*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C2 PFUnA	*114*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C2 PFDoA	*96*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C2 PFTeDA	*93*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C3 PFBS	*97*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*

Client Sample ID: FB

Lab Sample ID: 460-217547-7

Date Collected: 09/02/20 14:30

Matrix: Water

Date Received: 09/03/20 16:45

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*101*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C4 PFOS	*101*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
13C8 FOSA	*88*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
d3-NMeFOSAA	*87*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
d5-NEtFOSAA	*89*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
M2-6:2 FTS	*112*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*
M2-8:2 FTS	*118*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:38*	*1*

Client Sample ID: TB

Lab Sample ID: 460-217547-8

Date Collected: 09/02/20 14:30

Matrix: Water

Date Received: 09/03/20 16:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 01:38	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 01:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 01:38	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 01:38	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 01:38	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 01:38	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 01:38	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 01:38	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 01:38	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 01:38	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 01:38	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 01:38	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 01:38	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 01:38	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 01:38	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 01:38	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 01:38	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 01:38	1
Bromomethane	0.55	U *	1.0	0.55	ug/L			09/09/20 01:38	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 01:38	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 01:38	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 01:38	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 01:38	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 01:38	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 01:38	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 01:38	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 01:38	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 01:38	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 01:38	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 01:38	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 01:38	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 01:38	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 01:38	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 01:38	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 01:38	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 01:38	1

Client Sample ID: TB

Date Collected: 09/02/20 14:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 01:38	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 01:38	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 01:38	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 01:38	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 01:38	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 01:38	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 01:38	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 01:38	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 01:38	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 01:38	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 01:38	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 01:38	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 01:38	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 01:38	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 01:38	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 01:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 01:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*		*09/09/20 01:38*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*09/09/20 01:38*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*09/09/20 01:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/09/20 01:38*	*1*

Surrogate Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217547-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-217547-1	MW-203	91	104	99	96
460-217547-2	MW-204	99	110	106	107
460-217547-3	MW-205	91	99	99	98
460-217547-4	MW-206	93	104	99	96
460-217547-5	MW-213	93	104	99	96
460-217547-6	DUP	96	104	102	94
460-217547-7	FB	87	96	96	99
460-217547-8	TB	91	99	98	99
460-217576-A-4 MS	Matrix Spike	103	117	107	102
460-217576-A-4 MSD	Matrix Spike Duplicate	98	108	100	95
LCS 460-722597/4	Lab Control Sample	91	100	94	95
LCS 460-722709/4	Lab Control Sample	97	104	98	94
LCS 460-722834/5	Lab Control Sample	91	103	95	94
LCSD 460-722597/5	Lab Control Sample Dup	88	98	94	96
LCSD 460-722709/5	Lab Control Sample Dup	96	105	97	96
MB 460-722597/10	Method Blank	103	108	107	102
MB 460-722709/8	Method Blank	94	101	99	97
MB 460-722834/9	Method Blank	93	105	103	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217547-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-217547-1	MW-203	36	57	67	77	82	86	81	75
460-217547-2	MW-204	39	54	63	66	66	70	70	69
460-217547-3	MW-205	58	77	86	88	92	91	84	91
460-217547-4	MW-206	57	70	78	80	81	87	80	75
460-217547-5	MW-213	49	68	81	91	91	94	100	89
460-217547-6	DUP	60	79	92	85	90	93	99	93
460-217547-7	FB	84	90	102	101	100	102	106	114
LCS 320-410910/2-A	Lab Control Sample	55	56	64	66	58	64	66	69
LCS 320-411226/2-A	Lab Control Sample	90	94	90	96	93	100	99	100
LCSD 320-410910/3-A	Lab Control Sample Dup	63	65	70	76	70	70	75	71
LCSD 320-411226/3-A	Lab Control Sample Dup	86	89	90	91	89	94	95	96
MB 320-410910/1-A	Method Blank	84	86	95	92	93	95	101	99
MB 320-411226/1-A	Method Blank	73	90	89	92	92	97	100	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
460-217547-1	MW-203	74	69	93	100	97	75	73	76
460-217547-2	MW-204	70	58	91	90	87	66	56	67
460-217547-3	MW-205	71	84	92	95	94	77	68	74
460-217547-4	MW-206	70	64	81	86	82	74	67	71
460-217547-5	MW-213	72	74	88	92	88	72	61	71
460-217547-6	DUP	81	97	90	95	95	79	68	74
460-217547-7	FB	96	93	97	101	101	88	87	89
LCS 320-410910/2-A	Lab Control Sample	65	57	72	76	72	58	58	62
LCS 320-411226/2-A	Lab Control Sample	95	92	96	98	99	88	76	84
LCSD 320-410910/3-A	Lab Control Sample Dup	73	88	83	84	81	69	66	73
LCSD 320-411226/3-A	Lab Control Sample Dup	88	89	94	94	97	81	79	79
MB 320-410910/1-A	Method Blank	94	93	103	106	104	90	86	89
MB 320-411226/1-A	Method Blank	97	92	94	100	101	89	78	84

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
460-217547-1	MW-203	213 *5	166 *5						
460-217547-2	MW-204	143	113						
460-217547-3	MW-205	101	101						
460-217547-4	MW-206	107	93						
460-217547-5	MW-213	157 *5	113						
460-217547-6	DUP	108	95						
460-217547-7	FB	112	118						
LCS 320-410910/2-A	Lab Control Sample	68	76						
LCS 320-411226/2-A	Lab Control Sample	101	96						
LCSD 320-410910/3-A	Lab Control Sample Dup	78	79						
LCSD 320-411226/3-A	Lab Control Sample Dup	95	92						
MB 320-410910/1-A	Method Blank	103	115						
MB 320-411226/1-A	Method Blank	94	102						

Surrogate Legend

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

Isotope Dilution Summary

Client: SESI Consulting Engineers
Job ID: 460-217547-1
Project/Site: Grossingers

PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-722597/10
Matrix: Water
Analysis Batch: 722597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/08/20 22:33	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/08/20 22:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/08/20 22:33	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/08/20 22:33	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/08/20 22:33	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/08/20 22:33	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/08/20 22:33	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/08/20 22:33	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/08/20 22:33	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/08/20 22:33	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/08/20 22:33	1
1,4-Dioxane	28	U	50	28	ug/L			09/08/20 22:33	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/08/20 22:33	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/08/20 22:33	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/08/20 22:33	1
Acetone	4.4	U	5.0	4.4	ug/L			09/08/20 22:33	1
Benzene	0.20	U	1.0	0.20	ug/L			09/08/20 22:33	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/08/20 22:33	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/08/20 22:33	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/08/20 22:33	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/08/20 22:33	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/08/20 22:33	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/08/20 22:33	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/08/20 22:33	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/08/20 22:33	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/08/20 22:33	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/08/20 22:33	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/08/20 22:33	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/08/20 22:33	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/08/20 22:33	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/08/20 22:33	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/08/20 22:33	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/08/20 22:33	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/08/20 22:33	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/08/20 22:33	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/08/20 22:33	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/08/20 22:33	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/08/20 22:33	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/08/20 22:33	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/08/20 22:33	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/08/20 22:33	1
Styrene	0.42	U	1.0	0.42	ug/L			09/08/20 22:33	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/08/20 22:33	1
Toluene	0.38	U	1.0	0.38	ug/L			09/08/20 22:33	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/08/20 22:33	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/08/20 22:33	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/08/20 22:33	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/08/20 22:33	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-722597/10
Matrix: Water
Analysis Batch: 722597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/08/20 22:33	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/08/20 22:33	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/08/20 22:33	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/08/20 22:33	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/08/20 22:33*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*		*09/08/20 22:33*	*1*
4-Bromofluorobenzene	*108*		*76 - 120*		*09/08/20 22:33*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 124*		*09/08/20 22:33*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/08/20 22:33*	*1*

Lab Sample ID: LCS 460-722597/4
Matrix: Water
Analysis Batch: 722597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.7		ug/L		104	68 - 128
1,1,2,2-Tetrachloroethane	20.0	18.9		ug/L		94	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/L		105	59 - 142
1,1,2-Trichloroethane	20.0	18.7		ug/L		93	74 - 125
1,1-Dichloroethane	20.0	20.2		ug/L		101	73 - 130
1,1-Dichloroethene	20.0	20.7		ug/L		104	68 - 133
1,2,3-Trichlorobenzene	20.0	17.3		ug/L		86	53 - 144
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	64 - 132
1,2-Dichloropropane	20.0	19.5		ug/L		97	76 - 126
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 121
1,4-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 118
1,4-Dioxane	400	434		ug/L		109	70 - 142
2-Butanone (MEK)	100	119		ug/L		119	69 - 128
2-Hexanone	100	125		ug/L		125	74 - 127
4-Methyl-2-pentanone (MIBK)	100	123		ug/L		123	78 - 125
Acetone	100	98.2		ug/L		98	61 - 134
Benzene	20.0	19.9		ug/L		99	78 - 126
Bromoform	20.0	18.1		ug/L		90	38 - 144
Bromomethane	20.0	32.6	*	ug/L		163	10 - 150
Carbon disulfide	20.0	19.5		ug/L		97	64 - 138
Carbon tetrachloride	20.0	22.5		ug/L		112	56 - 131
Chlorobenzene	20.0	20.3		ug/L		102	80 - 119
Chlorobromomethane	20.0	20.3		ug/L		101	73 - 126
Chlorodibromomethane	20.0	18.9		ug/L		94	58 - 130
Chloroethane	20.0	20.2		ug/L		101	29 - 150
Chloroform	20.0	19.8		ug/L		99	78 - 125
Chloromethane	20.0	18.7		ug/L		93	38 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	78 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-722597/4
Matrix: Water
Analysis Batch: 722597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	74 - 125
Cyclohexane	20.0	20.3		ug/L		102	67 - 133
Dichlorobromomethane	20.0	19.9		ug/L		99	72 - 121
Dichlorodifluoromethane	20.0	19.9		ug/L		99	31 - 150
Ethylbenzene	20.0	20.7		ug/L		103	78 - 120
Ethylene Dibromide	20.0	18.9		ug/L		95	69 - 126
Isopropylbenzene	20.0	20.7		ug/L		104	79 - 125
Methyl acetate	40.0	48.2		ug/L		121	70 - 127
Methyl tert-butyl ether	20.0	19.2		ug/L		96	65 - 131
Methylcyclohexane	20.0	21.4		ug/L		107	60 - 139
Methylene Chloride	20.0	20.1		ug/L		100	74 - 127
m-Xylene & p-Xylene	20.0	21.3		ug/L		107	78 - 123
o-Xylene	20.0	20.4		ug/L		102	78 - 122
Styrene	20.0	20.7		ug/L		104	75 - 127
Tetrachloroethene	20.0	21.0		ug/L		105	70 - 127
Toluene	20.0	20.2		ug/L		101	78 - 119
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	74 - 126
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	66 - 127
Trichloroethene	20.0	20.5		ug/L		102	71 - 121
Trichlorofluoromethane	20.0	20.7		ug/L		103	61 - 140
Vinyl chloride	20.0	19.4		ug/L		97	61 - 144
1,2-Dichloroethane	20.0	18.2		ug/L		91	75 - 121
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	41 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*
4-Bromofluorobenzene	*100*		*76 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 124*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 460-722597/5
Matrix: Water
Analysis Batch: 722597

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	68 - 128	0	30
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/L		91	63 - 139	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.7		ug/L		109	59 - 142	3	30
1,1,2-Trichloroethane	20.0	18.2		ug/L		91	74 - 125	3	30
1,1-Dichloroethane	20.0	19.7		ug/L		98	73 - 130	3	30
1,1-Dichloroethene	20.0	21.1		ug/L		106	68 - 133	2	30
1,2,3-Trichlorobenzene	20.0	17.7		ug/L		88	53 - 144	2	30
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	64 - 132	2	30
1,2-Dichloropropane	20.0	19.6		ug/L		98	76 - 126	1	30
1,3-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 121	1	30
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 118	1	30
1,4-Dioxane	400	483		ug/L		121	70 - 142	11	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-722597/5
Matrix: Water
Analysis Batch: 722597

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	126		ug/L		126	69 - 128	6	30
2-Hexanone			100	125		ug/L		125	74 - 127	1	30
4-Methyl-2-pentanone (MIBK)			100	124		ug/L		124	78 - 125	1	30
Acetone			100	107		ug/L		107	61 - 134	9	30
Benzene			20.0	19.8		ug/L		99	78 - 126	0	30
Bromoform			20.0	17.5		ug/L		88	38 - 144	3	30
Bromomethane			20.0	34.5	*	ug/L		173	10 - 150	6	30
Carbon disulfide			20.0	19.9		ug/L		99	64 - 138	2	30
Carbon tetrachloride			20.0	22.8		ug/L		114	56 - 131	1	30
Chlorobenzene			20.0	20.5		ug/L		102	80 - 119	1	30
Chlorobromomethane			20.0	19.7		ug/L		99	73 - 126	3	30
Chlorodibromomethane			20.0	18.0		ug/L		90	58 - 130	5	30
Chloroethane			20.0	19.9		ug/L		99	29 - 150	2	30
Chloroform			20.0	19.6		ug/L		98	78 - 125	1	30
Chloromethane			20.0	18.7		ug/L		94	38 - 150	0	30
cis-1,2-Dichloroethene			20.0	19.9		ug/L		99	78 - 121	0	30
cis-1,3-Dichloropropene			20.0	18.9		ug/L		95	74 - 125	0	30
Cyclohexane			20.0	20.4		ug/L		102	67 - 133	0	30
Dichlorobromomethane			20.0	19.5		ug/L		97	72 - 121	2	30
Dichlorodifluoromethane			20.0	19.8		ug/L		99	31 - 150	0	30
Ethylbenzene			20.0	20.9		ug/L		104	78 - 120	1	30
Ethylene Dibromide			20.0	18.5		ug/L		93	69 - 126	2	30
Isopropylbenzene			20.0	21.0		ug/L		105	79 - 125	1	30
Methyl acetate			40.0	48.0		ug/L		120	70 - 127	0	30
Methyl tert-butyl ether			20.0	18.1		ug/L		91	65 - 131	6	30
Methylcyclohexane			20.0	21.6		ug/L		108	60 - 139	1	30
Methylene Chloride			20.0	20.3		ug/L		101	74 - 127	1	30
m-Xylene & p-Xylene			20.0	21.7		ug/L		108	78 - 123	2	30
o-Xylene			20.0	20.5		ug/L		103	78 - 122	1	30
Styrene			20.0	21.1		ug/L		106	75 - 127	2	30
Tetrachloroethene			20.0	21.1		ug/L		105	70 - 127	1	30
Toluene			20.0	20.4		ug/L		102	78 - 119	1	30
trans-1,2-Dichloroethene			20.0	20.4		ug/L		102	74 - 126	1	30
trans-1,3-Dichloropropene			20.0	18.8		ug/L		94	66 - 127	3	30
Trichloroethene			20.0	21.1		ug/L		106	71 - 121	3	30
Trichlorofluoromethane			20.0	21.9		ug/L		109	61 - 140	6	30
Vinyl chloride			20.0	19.5		ug/L		97	61 - 144	1	30
1,2-Dichloroethane			20.0	18.1		ug/L		90	75 - 121	0	30
1,2-Dichlorobenzene			20.0	20.7		ug/L		104	79 - 122	0	30
1,2-Dibromo-3-Chloropropane			20.0	18.5		ug/L		93	41 - 143	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 123*
4-Bromofluorobenzene	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*94*		*77 - 124*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-722709/8
Matrix: Water
Analysis Batch: 722709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 10:31	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 10:31	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 10:31	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 10:31	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 10:31	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 10:31	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 10:31	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 10:31	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 10:31	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 10:31	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 10:31	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 10:31	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 10:31	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 10:31	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 10:31	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 10:31	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 10:31	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 10:31	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 10:31	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 10:31	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 10:31	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 10:31	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 10:31	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 10:31	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 10:31	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 10:31	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 10:31	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 10:31	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 10:31	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 10:31	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 10:31	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 10:31	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 10:31	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 10:31	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 10:31	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 10:31	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 10:31	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 10:31	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 10:31	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 10:31	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 10:31	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 10:31	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 10:31	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 10:31	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 10:31	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 10:31	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 10:31	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-722709/8
Matrix: Water
Analysis Batch: 722709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 10:31	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 10:31	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 10:31	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 10:31	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 10:31*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 123*		*09/09/20 10:31*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*09/09/20 10:31*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*09/09/20 10:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/09/20 10:31*	*1*

Lab Sample ID: LCS 460-722709/4
Matrix: Water
Analysis Batch: 722709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	68 - 128
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.2		ug/L		106	59 - 142
1,1,2-Trichloroethane	20.0	19.3		ug/L		96	74 - 125
1,1-Dichloroethane	20.0	19.2		ug/L		96	73 - 130
1,1-Dichloroethene	20.0	20.3		ug/L		102	68 - 133
1,2,3-Trichlorobenzene	20.0	18.4		ug/L		92	53 - 144
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	64 - 132
1,2-Dichloropropane	20.0	19.1		ug/L		95	76 - 126
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 121
1,4-Dichlorobenzene	20.0	19.7		ug/L		98	80 - 118
1,4-Dioxane	400	432		ug/L		108	70 - 142
2-Butanone (MEK)	100	103		ug/L		103	69 - 128
2-Hexanone	100	108		ug/L		108	74 - 127
4-Methyl-2-pentanone (MIBK)	100	103		ug/L		103	78 - 125
Acetone	100	87.0		ug/L		87	61 - 134
Benzene	20.0	18.7		ug/L		94	78 - 126
Bromoform	20.0	18.9		ug/L		95	38 - 144
Bromomethane	20.0	18.3		ug/L		92	10 - 150
Carbon disulfide	20.0	19.2		ug/L		96	64 - 138
Carbon tetrachloride	20.0	21.8		ug/L		109	56 - 131
Chlorobenzene	20.0	19.4		ug/L		97	80 - 119
Chlorobromomethane	20.0	20.3		ug/L		102	73 - 126
Chlorodibromomethane	20.0	19.6		ug/L		98	58 - 130
Chloroethane	20.0	18.5		ug/L		93	29 - 150
Chloroform	20.0	19.7		ug/L		98	78 - 125
Chloromethane	20.0	17.9		ug/L		90	38 - 150
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	78 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-722709/4
Matrix: Water
Analysis Batch: 722709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	74 - 125
Cyclohexane	20.0	20.2		ug/L		101	67 - 133
Dichlorobromomethane	20.0	19.5		ug/L		98	72 - 121
Dichlorodifluoromethane	20.0	19.9		ug/L		100	31 - 150
Ethylbenzene	20.0	19.8		ug/L		99	78 - 120
Ethylene Dibromide	20.0	20.0		ug/L		100	69 - 126
Isopropylbenzene	20.0	20.0		ug/L		100	79 - 125
Methyl acetate	40.0	38.4		ug/L		96	70 - 127
Methyl tert-butyl ether	20.0	20.5		ug/L		102	65 - 131
Methylcyclohexane	20.0	21.4		ug/L		107	60 - 139
Methylene Chloride	20.0	20.2		ug/L		101	74 - 127
m-Xylene & p-Xylene	20.0	20.6		ug/L		103	78 - 123
o-Xylene	20.0	19.5		ug/L		97	78 - 122
Styrene	20.0	20.1		ug/L		101	75 - 127
Tetrachloroethene	20.0	20.3		ug/L		102	70 - 127
Toluene	20.0	19.6		ug/L		98	78 - 119
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	74 - 126
trans-1,3-Dichloropropene	20.0	19.5		ug/L		98	66 - 127
Trichloroethene	20.0	20.6		ug/L		103	71 - 121
Trichlorofluoromethane	20.0	21.6		ug/L		108	61 - 140
Vinyl chloride	20.0	18.6		ug/L		93	61 - 144
1,2-Dichloroethane	20.0	18.9		ug/L		95	75 - 121
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	20.0	21.9		ug/L		110	41 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 123*
4-Bromofluorobenzene	*104*		*76 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 124*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 460-722709/5
Matrix: Water
Analysis Batch: 722709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	68 - 128	4	30
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		100	63 - 139	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.1		ug/L		111	59 - 142	4	30
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	74 - 125	4	30
1,1-Dichloroethane	20.0	19.2		ug/L		96	73 - 130	0	30
1,1-Dichloroethene	20.0	21.0		ug/L		105	68 - 133	3	30
1,2,3-Trichlorobenzene	20.0	19.2		ug/L		96	53 - 144	4	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	64 - 132	0	30
1,2-Dichloropropane	20.0	19.8		ug/L		99	76 - 126	3	30
1,3-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 121	3	30
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 118	1	30
1,4-Dioxane	400	478		ug/L		119	70 - 142	10	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-722709/5
Matrix: Water
Analysis Batch: 722709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	106		ug/L		106	69 - 128	3	30
2-Hexanone			100	109		ug/L		109	74 - 127	1	30
4-Methyl-2-pentanone (MIBK)			100	105		ug/L		105	78 - 125	2	30
Acetone			100	91.9		ug/L		92	61 - 134	5	30
Benzene			20.0	19.6		ug/L		98	78 - 126	5	30
Bromoform			20.0	20.1		ug/L		100	38 - 144	6	30
Bromomethane			20.0	19.4		ug/L		97	10 - 150	6	30
Carbon disulfide			20.0	19.5		ug/L		97	64 - 138	1	30
Carbon tetrachloride			20.0	22.6		ug/L		113	56 - 131	3	30
Chlorobenzene			20.0	20.1		ug/L		100	80 - 119	4	30
Chlorobromomethane			20.0	20.4		ug/L		102	73 - 126	0	30
Chlorodibromomethane			20.0	20.4		ug/L		102	58 - 130	4	30
Chloroethane			20.0	14.9		ug/L		75	29 - 150	21	30
Chloroform			20.0	19.7		ug/L		98	78 - 125	0	30
Chloromethane			20.0	17.7		ug/L		89	38 - 150	1	30
cis-1,2-Dichloroethene			20.0	20.0		ug/L		100	78 - 121	1	30
cis-1,3-Dichloropropene			20.0	19.1		ug/L		95	74 - 125	1	30
Cyclohexane			20.0	20.4		ug/L		102	67 - 133	1	30
Dichlorobromomethane			20.0	19.8		ug/L		99	72 - 121	1	30
Dichlorodifluoromethane			20.0	19.9		ug/L		99	31 - 150	0	30
Ethylbenzene			20.0	20.4		ug/L		102	78 - 120	3	30
Ethylene Dibromide			20.0	21.2		ug/L		106	69 - 126	6	30
Isopropylbenzene			20.0	20.6		ug/L		103	79 - 125	3	30
Methyl acetate			40.0	38.6		ug/L		96	70 - 127	1	30
Methyl tert-butyl ether			20.0	20.9		ug/L		105	65 - 131	2	30
Methylcyclohexane			20.0	21.7		ug/L		108	60 - 139	1	30
Methylene Chloride			20.0	20.2		ug/L		101	74 - 127	0	30
m-Xylene & p-Xylene			20.0	20.9		ug/L		105	78 - 123	1	30
o-Xylene			20.0	20.2		ug/L		101	78 - 122	4	30
Styrene			20.0	20.7		ug/L		104	75 - 127	3	30
Tetrachloroethene			20.0	21.4		ug/L		107	70 - 127	5	30
Toluene			20.0	20.0		ug/L		100	78 - 119	2	30
trans-1,2-Dichloroethene			20.0	20.9		ug/L		104	74 - 126	7	30
trans-1,3-Dichloropropene			20.0	20.5		ug/L		103	66 - 127	5	30
Trichloroethene			20.0	21.1		ug/L		105	71 - 121	3	30
Trichlorofluoromethane			20.0	21.7		ug/L		109	61 - 140	0	30
Vinyl chloride			20.0	19.2		ug/L		96	61 - 144	3	30
1,2-Dichloroethane			20.0	19.3		ug/L		96	75 - 121	2	30
1,2-Dichlorobenzene			20.0	20.2		ug/L		101	79 - 122	1	30
1,2-Dibromo-3-Chloropropane			20.0	21.7		ug/L		108	41 - 143	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*
4-Bromofluorobenzene	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 124*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-722834/9
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 21:01	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 21:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 21:01	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 21:01	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 21:01	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 21:01	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 21:01	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 21:01	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 21:01	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 21:01	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 21:01	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 21:01	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 21:01	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 21:01	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 21:01	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 21:01	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 21:01	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 21:01	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 21:01	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 21:01	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 21:01	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 21:01	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 21:01	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 21:01	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 21:01	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 21:01	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 21:01	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 21:01	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 21:01	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 21:01	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 21:01	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 21:01	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 21:01	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 21:01	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 21:01	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 21:01	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 21:01	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 21:01	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 21:01	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 21:01	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 21:01	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 21:01	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 21:01	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 21:01	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 21:01	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 21:01	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 21:01	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 21:01	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-722834/9
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 21:01	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 21:01	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 21:01	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 21:01	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 21:01*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 123*		*09/09/20 21:01*	*1*
4-Bromofluorobenzene	*105*		*76 - 120*		*09/09/20 21:01*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*09/09/20 21:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/09/20 21:01*	*1*

Lab Sample ID: LCS 460-722834/5
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.6		ug/L		103	68 - 128
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.4		ug/L		107	59 - 142
1,1,2-Trichloroethane	20.0	18.7		ug/L		94	74 - 125
1,1-Dichloroethane	20.0	19.5		ug/L		98	73 - 130
1,1-Dichloroethene	20.0	20.8		ug/L		104	68 - 133
1,2,3-Trichlorobenzene	20.0	18.5		ug/L		93	53 - 144
1,2,4-Trichlorobenzene	20.0	19.8		ug/L		99	64 - 132
1,2-Dichloropropane	20.0	19.2		ug/L		96	76 - 126
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 121
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 118
1,4-Dioxane	400	445		ug/L		111	70 - 142
2-Butanone (MEK)	100	120		ug/L		120	69 - 128
2-Hexanone	100	120		ug/L		120	74 - 127
4-Methyl-2-pentanone (MIBK)	100	118		ug/L		118	78 - 125
Acetone	100	100		ug/L		100	61 - 134
Benzene	20.0	19.5		ug/L		98	78 - 126
Bromoform	20.0	19.6		ug/L		98	38 - 144
Bromomethane	20.0	23.7		ug/L		119	10 - 150
Carbon disulfide	20.0	19.4		ug/L		97	64 - 138
Carbon tetrachloride	20.0	22.8		ug/L		114	56 - 131
Chlorobenzene	20.0	20.8		ug/L		104	80 - 119
Chlorobromomethane	20.0	20.1		ug/L		100	73 - 126
Chlorodibromomethane	20.0	19.2		ug/L		96	58 - 130
Chloroethane	20.0	17.2		ug/L		86	29 - 150
Chloroform	20.0	19.8		ug/L		99	78 - 125
Chloromethane	20.0	16.1		ug/L		80	38 - 150
cis-1,2-Dichloroethene	20.0	20.1		ug/L		100	78 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-722834/5
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	74 - 125
Cyclohexane	20.0	19.7		ug/L		99	67 - 133
Dichlorobromomethane	20.0	19.7		ug/L		99	72 - 121
Dichlorodifluoromethane	20.0	15.3		ug/L		77	31 - 150
Ethylbenzene	20.0	20.7		ug/L		104	78 - 120
Ethylene Dibromide	20.0	20.2		ug/L		101	69 - 126
Isopropylbenzene	20.0	20.8		ug/L		104	79 - 125
Methyl acetate	40.0	42.7		ug/L		107	70 - 127
Methyl tert-butyl ether	20.0	19.5		ug/L		98	65 - 131
Methylcyclohexane	20.0	20.8		ug/L		104	60 - 139
Methylene Chloride	20.0	20.3		ug/L		102	74 - 127
m-Xylene & p-Xylene	20.0	21.4		ug/L		107	78 - 123
o-Xylene	20.0	20.5		ug/L		103	78 - 122
Styrene	20.0	21.3		ug/L		106	75 - 127
Tetrachloroethene	20.0	21.5		ug/L		108	70 - 127
Toluene	20.0	20.3		ug/L		101	78 - 119
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	74 - 126
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	66 - 127
Trichloroethene	20.0	21.5		ug/L		107	71 - 121
Trichlorofluoromethane	20.0	19.7		ug/L		99	61 - 140
Vinyl chloride	20.0	17.2		ug/L		86	61 - 144
1,2-Dichloroethane	20.0	18.8		ug/L		94	75 - 121
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		100	41 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*
4-Bromofluorobenzene	*103*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 124*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 460-217576-A-4 MS
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.24	U	20.0	24.0		ug/L		120	68 - 128
1,1,2,2-Tetrachloroethane	0.37	U	20.0	23.8		ug/L		119	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	23.9		ug/L		119	59 - 142
1,1,2-Trichloroethane	0.43	U	20.0	23.0		ug/L		115	74 - 125
1,1-Dichloroethane	0.26	U	20.0	21.9		ug/L		109	73 - 130
1,1-Dichloroethene	0.26	U	20.0	23.5		ug/L		117	68 - 133
1,2,3-Trichlorobenzene	0.36	U	20.0	22.1		ug/L		110	53 - 144
1,2,4-Trichlorobenzene	0.37	U	20.0	23.3		ug/L		117	64 - 132
1,2-Dichloropropane	0.35	U	20.0	22.1		ug/L		110	76 - 126
1,3-Dichlorobenzene	0.34	U	20.0	23.7		ug/L		119	80 - 121
1,4-Dichlorobenzene	0.33	U	20.0	23.5		ug/L		117	80 - 118
1,4-Dioxane	28	U	400	457		ug/L		114	70 - 142

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-217576-A-4 MS
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	1.9	U F1	100	159	F1	ug/L		159	69 - 128
2-Hexanone	1.1	U F1	100	162	F1	ug/L		162	74 - 127
4-Methyl-2-pentanone (MIBK)	1.3	U F1	100	162	F1	ug/L		162	78 - 125
Acetone	4.4	U F1	100	136	F1	ug/L		136	61 - 134
Benzene	0.20	U	20.0	21.8		ug/L		109	78 - 126
Bromoform	0.54	U	20.0	25.4		ug/L		127	38 - 144
Bromomethane	0.55	U	20.0	26.6		ug/L		133	10 - 150
Carbon disulfide	0.82	U	20.0	21.9		ug/L		109	64 - 138
Carbon tetrachloride	0.21	U	20.0	25.9		ug/L		129	56 - 131
Chlorobenzene	0.38	U	20.0	23.6		ug/L		118	80 - 119
Chlorobromomethane	0.41	U F1	20.0	25.7	F1	ug/L		128	73 - 126
Chlorodibromomethane	0.28	U	20.0	23.7		ug/L		118	58 - 130
Chloroethane	0.32	U	20.0	20.0		ug/L		100	29 - 150
Chloroform	0.33	U	20.0	23.3		ug/L		117	78 - 125
Chloromethane	0.40	U	20.0	17.6		ug/L		88	38 - 150
cis-1,2-Dichloroethene	4.5	F1	20.0	28.8	F1	ug/L		122	78 - 121
cis-1,3-Dichloropropene	0.22	U	20.0	20.7		ug/L		104	74 - 125
Cyclohexane	0.32	U	20.0	21.2		ug/L		106	67 - 133
Dichlorobromomethane	0.34	U	20.0	23.8		ug/L		119	72 - 121
Dichlorodifluoromethane	0.31	U	20.0	17.7		ug/L		88	31 - 150
Ethylbenzene	0.30	U	20.0	23.6		ug/L		118	78 - 120
Ethylene Dibromide	0.50	U	20.0	24.5		ug/L		122	69 - 126
Isopropylbenzene	0.34	U	20.0	23.3		ug/L		116	79 - 125
Methyl acetate	0.79	U	40.0	43.5		ug/L		109	70 - 127
Methyl tert-butyl ether	0.47	U	20.0	25.7		ug/L		129	65 - 131
Methylcyclohexane	0.26	U	20.0	23.2		ug/L		116	60 - 139
Methylene Chloride	0.32	U	20.0	23.9		ug/L		119	74 - 127
m-Xylene & p-Xylene	0.30	U	20.0	24.4		ug/L		122	78 - 123
o-Xylene	0.36	U	20.0	23.0		ug/L		115	78 - 122
Styrene	0.42	U	20.0	23.9		ug/L		120	75 - 127
Tetrachloroethene	2.7		20.0	27.2		ug/L		123	70 - 127
Toluene	0.38	U	20.0	22.9		ug/L		115	78 - 119
trans-1,2-Dichloroethene	0.24	U	20.0	24.0		ug/L		120	74 - 126
trans-1,3-Dichloropropene	0.49	U	20.0	21.3		ug/L		106	66 - 127
Trichloroethene	1.3	F1	20.0	26.5	F1	ug/L		126	71 - 121
Trichlorofluoromethane	0.32	U	20.0	23.1		ug/L		116	61 - 140
Vinyl chloride	0.17	U	20.0	19.7		ug/L		99	61 - 144
1,2-Dichloroethane	0.43	U	20.0	22.6		ug/L		113	75 - 121
1,2-Dichlorobenzene	0.43	U	20.0	23.6		ug/L		118	79 - 122
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	26.7		ug/L		134	41 - 143

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*
4-Bromofluorobenzene	*117*		*76 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-217576-A-4 MSD
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.24	U	20.0	19.8		ug/L		99	68 - 128	19	30
1,1,2,2-Tetrachloroethane	0.37	U	20.0	19.2		ug/L		96	63 - 139	21	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	20.0	19.5		ug/L		98	59 - 142	20	30
1,1,2-Trichloroethane	0.43	U	20.0	19.0		ug/L		95	74 - 125	19	30
1,1-Dichloroethane	0.26	U	20.0	17.9		ug/L		90	73 - 130	20	30
1,1-Dichloroethene	0.26	U	20.0	19.4		ug/L		97	68 - 133	19	30
1,2,3-Trichlorobenzene	0.36	U	20.0	19.8		ug/L		99	53 - 144	11	30
1,2,4-Trichlorobenzene	0.37	U	20.0	19.3		ug/L		97	64 - 132	19	30
1,2-Dichloropropane	0.35	U	20.0	17.8		ug/L		89	76 - 126	21	30
1,3-Dichlorobenzene	0.34	U	20.0	19.6		ug/L		98	80 - 121	19	30
1,4-Dichlorobenzene	0.33	U	20.0	19.3		ug/L		97	80 - 118	19	30
1,4-Dioxane	28	U	400	405		ug/L		101	70 - 142	12	30
2-Butanone (MEK)	1.9	U F1	100	125		ug/L		125	69 - 128	24	30
2-Hexanone	1.1	U F1	100	124		ug/L		124	74 - 127	27	30
4-Methyl-2-pentanone (MIBK)	1.3	U F1	100	124		ug/L		124	78 - 125	26	30
Acetone	4.4	U F1	100	108		ug/L		108	61 - 134	23	30
Benzene	0.20	U	20.0	17.9		ug/L		89	78 - 126	20	30
Bromoform	0.54	U	20.0	20.7		ug/L		103	38 - 144	20	30
Bromomethane	0.55	U	20.0	22.2		ug/L		111	10 - 150	18	30
Carbon disulfide	0.82	U	20.0	18.1		ug/L		90	64 - 138	19	30
Carbon tetrachloride	0.21	U	20.0	21.3		ug/L		107	56 - 131	19	30
Chlorobenzene	0.38	U	20.0	19.3		ug/L		96	80 - 119	20	30
Chlorobromomethane	0.41	U F1	20.0	20.3		ug/L		101	73 - 126	24	30
Chlorodibromomethane	0.28	U	20.0	19.1		ug/L		96	58 - 130	21	30
Chloroethane	0.32	U	20.0	17.5		ug/L		87	29 - 150	14	30
Chloroform	0.33	U	20.0	19.1		ug/L		96	78 - 125	20	30
Chloromethane	0.40	U	20.0	15.5		ug/L		77	38 - 150	13	30
cis-1,2-Dichloroethene	4.5	F1	20.0	23.1		ug/L		93	78 - 121	22	30
cis-1,3-Dichloropropene	0.22	U	20.0	16.8		ug/L		84	74 - 125	21	30
Cyclohexane	0.32	U	20.0	17.2		ug/L		86	67 - 133	21	30
Dichlorobromomethane	0.34	U	20.0	19.4		ug/L		97	72 - 121	21	30
Dichlorodifluoromethane	0.31	U	20.0	15.9		ug/L		79	31 - 150	11	30
Ethylbenzene	0.30	U	20.0	19.2		ug/L		96	78 - 120	21	30
Ethylene Dibromide	0.50	U	20.0	20.0		ug/L		100	69 - 126	20	30
Isopropylbenzene	0.34	U	20.0	19.4		ug/L		97	79 - 125	18	30
Methyl acetate	0.79	U	40.0	32.9		ug/L		82	70 - 127	28	30
Methyl tert-butyl ether	0.47	U	20.0	20.8		ug/L		104	65 - 131	21	30
Methylcyclohexane	0.26	U	20.0	19.1		ug/L		95	60 - 139	19	30
Methylene Chloride	0.32	U	20.0	19.4		ug/L		97	74 - 127	20	30
m-Xylene & p-Xylene	0.30	U	20.0	19.6		ug/L		98	78 - 123	22	30
o-Xylene	0.36	U	20.0	19.1		ug/L		96	78 - 122	18	30
Styrene	0.42	U	20.0	19.6		ug/L		98	75 - 127	20	30
Tetrachloroethene	2.7		20.0	23.0		ug/L		102	70 - 127	17	30
Toluene	0.38	U	20.0	19.0		ug/L		95	78 - 119	19	30
trans-1,2-Dichloroethene	0.24	U	20.0	19.7		ug/L		99	74 - 126	20	30
trans-1,3-Dichloropropene	0.49	U	20.0	18.3		ug/L		91	66 - 127	15	30
Trichloroethene	1.3	F1	20.0	21.6		ug/L		102	71 - 121	20	30
Trichlorofluoromethane	0.32	U	20.0	20.0		ug/L		100	61 - 140	15	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-217576-A-4 MSD
Matrix: Water
Analysis Batch: 722834

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	0.17	U	20.0	16.7		ug/L		84	61 - 144	16	30
1,2-Dichloroethane	0.43	U	20.0	18.0		ug/L		90	75 - 121	23	30
1,2-Dichlorobenzene	0.43	U	20.0	19.5		ug/L		97	79 - 122	19	30
1,2-Dibromo-3-Chloropropane	0.38	U	20.0	21.0		ug/L		105	41 - 143	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 123*
4-Bromofluorobenzene	*108*		*76 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 124*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-410910/1-A
Matrix: Water
Analysis Batch: 411087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.354	J	2.00	0.35	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.273	J	2.00	0.17	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32	ng/L		09/09/20 18:52	09/10/20 15:11	1
Perfluorooctanesulfonamide (FOSA)	0.357	J	2.00	0.35	ng/L		09/09/20 18:52	09/10/20 15:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10	ng/L		09/09/20 18:52	09/10/20 15:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90	ng/L		09/09/20 18:52	09/10/20 15:11	1
6:2 FTS	2.00	U	20.0	2.00	ng/L		09/09/20 18:52	09/10/20 15:11	1
8:2 FTS	2.00	U	20.0	2.00	ng/L		09/09/20 18:52	09/10/20 15:11	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:11*	*1*
13C5 PFPeA	*86*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:11*	*1*
13C2 PFHxA	*95*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:11*	*1*
13C4 PFHpA	*92*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:11*	*1*
13C4 PFOA	*93*		*25 - 150*	*09/09/20 18:52*	*09/10/20 15:11*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-410910/1-A
Matrix: Water
Analysis Batch: 411087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410910

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	95		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C2 PFDA	101		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C2 PFUnA	99		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C2 PFDoA	94		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C2 PFTeDA	93		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C3 PFBS	103		25 - 150	09/09/20 18:52	09/10/20 15:11	1
18O2 PFHxS	106		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C4 PFOS	104		25 - 150	09/09/20 18:52	09/10/20 15:11	1
13C8 FOSA	90		25 - 150	09/09/20 18:52	09/10/20 15:11	1
d3-NMeFOSAA	86		25 - 150	09/09/20 18:52	09/10/20 15:11	1
d5-NEtFOSAA	89		25 - 150	09/09/20 18:52	09/10/20 15:11	1
M2-6:2 FTS	103		25 - 150	09/09/20 18:52	09/10/20 15:11	1
M2-8:2 FTS	115		25 - 150	09/09/20 18:52	09/10/20 15:11	1

Lab Sample ID: LCS 320-410910/2-A
Matrix: Water
Analysis Batch: 411087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	39.79		ng/L		99	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	37.53		ng/L		94	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	36.61		ng/L		92	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	34.02		ng/L		85	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	39.17		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	40.0	37.61		ng/L		94	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	34.20		ng/L		86	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	42.31		ng/L		106	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	31.77		ng/L		79	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	31.90		ng/L		80	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	45.97		ng/L		115	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	32.55		ng/L		92	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.14		ng/L		88	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.25		ng/L		95	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	35.50		ng/L		96	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	34.21		ng/L		89	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	39.32		ng/L		98	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.79		ng/L		102	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	36.89		ng/L		92	76 - 136
6:2 FTS	37.9	35.12		ng/L		93	59 - 175
8:2 FTS	38.3	36.14		ng/L		94	75 - 135

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	55		25 - 150
13C5 PFPeA	56		25 - 150
13C2 PFHxA	64		25 - 150
13C4 PFHpA	66		25 - 150
13C4 PFOA	58		25 - 150
13C5 PFNA	64		25 - 150
13C2 PFDA	66		25 - 150
13C2 PFUnA	69		25 - 150
13C2 PFDoA	65		25 - 150
13C2 PFTeDA	57		25 - 150
13C3 PFBS	72		25 - 150
18O2 PFHxS	76		25 - 150
13C4 PFOS	72		25 - 150
13C8 FOSA	58		25 - 150
d3-NMeFOSAA	58		25 - 150
d5-NEtFOSAA	62		25 - 150
M2-6:2 FTS	68		25 - 150
M2-8:2 FTS	76		25 - 150

Lab Sample ID: LCSD 320-410910/3-A
Matrix: Water
Analysis Batch: 411087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 410910

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	39.95		ng/L		100	76 - 136	0	30
Perfluoropentanoic acid (PFPeA)			40.0	39.21		ng/L		98	71 - 131	4	30
Perfluorohexanoic acid (PFHxA)			40.0	39.20		ng/L		98	73 - 133	7	30
Perfluoroheptanoic acid (PFHpA)			40.0	36.55		ng/L		91	72 - 132	7	30
Perfluorooctanoic acid (PFOA)			40.0	39.44		ng/L		99	70 - 130	1	30
Perfluorononanoic acid (PFNA)			40.0	44.28		ng/L		111	75 - 135	16	30
Perfluorodecanoic acid (PFDA)			40.0	32.38		ng/L		81	76 - 136	5	30
Perfluoroundecanoic acid (PFUnA)			40.0	42.82		ng/L		107	68 - 128	1	30
Perfluorododecanoic acid (PFDoA)			40.0	32.50		ng/L		81	71 - 131	2	30
Perfluorotridecanoic acid (PFTriA)			40.0	33.88		ng/L		85	71 - 131	6	30
Perfluorotetradecanoic acid (PFTeA)			40.0	42.61		ng/L		107	70 - 130	8	30
Perfluorobutanesulfonic acid (PFBS)			35.4	32.20		ng/L		91	67 - 127	1	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.49		ng/L		89	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	37.83		ng/L		99	76 - 136	4	30
Perfluorooctanesulfonic acid (PFOS)			37.1	35.53		ng/L		96	70 - 130	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	33.52		ng/L		87	71 - 131	2	30
Perfluorooctanesulfonamide (FOSA)			40.0	38.85		ng/L		97	73 - 133	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	39.80		ng/L		99	76 - 136	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	37.29		ng/L		93	76 - 136	1	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-410910/3-A
Matrix: Water
Analysis Batch: 411087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 410910

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2 FTS			37.9	34.57		ng/L		91	59 - 175	2	30
8:2 FTS			38.3	37.33		ng/L		97	75 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*63*		*25 - 150*
13C5 PFPeA	*65*		*25 - 150*
13C2 PFHxA	*70*		*25 - 150*
13C4 PFHpA	*76*		*25 - 150*
13C4 PFOA	*70*		*25 - 150*
13C5 PFNA	*70*		*25 - 150*
13C2 PFDA	*75*		*25 - 150*
13C2 PFUnA	*71*		*25 - 150*
13C2 PFDoA	*73*		*25 - 150*
13C2 PFTeDA	*88*		*25 - 150*
13C3 PFBS	*83*		*25 - 150*
18O2 PFHxS	*84*		*25 - 150*
13C4 PFOS	*81*		*25 - 150*
13C8 FOSA	*69*		*25 - 150*
d3-NMeFOSAA	*66*		*25 - 150*
d5-NEtFOSAA	*73*		*25 - 150*
M2-6:2 FTS	*78*		*25 - 150*
M2-8:2 FTS	*79*		*25 - 150*

Lab Sample ID: MB 320-411226/1-A
Matrix: Water
Analysis Batch: 411454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 411226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.35	U	2.00	0.35	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorohexanesulfonic acid (PFHxS)	0.261	J	2.00	0.17	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32	ng/L		09/10/20 18:32	09/11/20 13:14	1
Perfluorooctanesulfonamide (FOSA)	0.35	U	2.00	0.35	ng/L		09/10/20 18:32	09/11/20 13:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10	ng/L		09/10/20 18:32	09/11/20 13:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90	ng/L		09/10/20 18:32	09/11/20 13:14	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-411226/1-A
Matrix: Water
Analysis Batch: 411454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 411226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	2.00	U	20.0	2.00	ng/L		09/10/20 18:32	09/11/20 13:14	1
8:2 FTS	2.00	U	20.0	2.00	ng/L		09/10/20 18:32	09/11/20 13:14	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*73*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C5 PFPeA	*90*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C2 PFHxA	*89*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C4 PFHpA	*92*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C4 PFOA	*92*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C5 PFNA	*97*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C2 PFDA	*100*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C2 PFUnA	*98*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C2 PFDoA	*97*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C2 PFTeDA	*92*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C3 PFBS	*94*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
18O2 PFHxS	*100*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C4 PFOS	*101*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
13C8 FOSA	*89*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
d3-NMeFOSAA	*78*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
M2-6:2 FTS	*94*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*09/10/20 18:32*	*09/11/20 13:14*	*1*

Lab Sample ID: LCS 320-411226/2-A
Matrix: Water
Analysis Batch: 411454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 411226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.69		ng/L		109	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.79		ng/L		99	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	42.56		ng/L		106	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	42.66		ng/L		107	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	41.65		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.80		ng/L		107	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.22		ng/L		108	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	42.76		ng/L		107	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	39.08		ng/L		98	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	37.81		ng/L		95	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	38.52		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	38.07		ng/L		108	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.33		ng/L		94	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.41		ng/L		106	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	38.35		ng/L		103	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-411226/2-A
Matrix: Water
Analysis Batch: 411454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 411226

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorodecanesulfonic acid (PFDS)			38.6	38.33		ng/L		99	71 - 131		
Perfluorooctanesulfonamide (FOSA)			40.0	42.22		ng/L		106	73 - 133		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	45.82		ng/L		115	76 - 136		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	41.81		ng/L		105	76 - 136		
6:2 FTS			37.9	37.34		ng/L		98	59 - 175		
8:2 FTS			38.3	39.15		ng/L		102	75 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*90*		*25 - 150*
13C5 PFPeA	*94*		*25 - 150*
13C2 PFHxA	*90*		*25 - 150*
13C4 PFHpA	*96*		*25 - 150*
13C4 PFOA	*93*		*25 - 150*
13C5 PFNA	*100*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*100*		*25 - 150*
13C2 PFDoA	*95*		*25 - 150*
13C2 PFTeDA	*92*		*25 - 150*
13C3 PFBS	*96*		*25 - 150*
18O2 PFHxS	*98*		*25 - 150*
13C4 PFOS	*99*		*25 - 150*
13C8 FOSA	*88*		*25 - 150*
d3-NMeFOSAA	*76*		*25 - 150*
d5-NEtFOSAA	*84*		*25 - 150*
M2-6:2 FTS	*101*		*25 - 150*
M2-8:2 FTS	*96*		*25 - 150*

Lab Sample ID: LCSD 320-411226/3-A
Matrix: Water
Analysis Batch: 411454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 411226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	43.48		ng/L		109	76 - 136	0	30
Perfluoropentanoic acid (PFPeA)			40.0	39.01		ng/L		98	71 - 131	2	30
Perfluorohexanoic acid (PFHxA)			40.0	41.96		ng/L		105	73 - 133	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	42.11		ng/L		105	72 - 132	1	30
Perfluorooctanoic acid (PFOA)			40.0	41.33		ng/L		103	70 - 130	1	30
Perfluorononanoic acid (PFNA)			40.0	45.26		ng/L		113	75 - 135	6	30
Perfluorodecanoic acid (PFDA)			40.0	41.84		ng/L		105	76 - 136	3	30
Perfluoroundecanoic acid (PFUnA)			40.0	45.15		ng/L		113	68 - 128	5	30
Perfluorododecanoic acid (PFDoA)			40.0	45.36		ng/L		113	71 - 131	15	30
Perfluorotridecanoic acid (PFTriA)			40.0	40.17		ng/L		100	71 - 131	6	30
Perfluorotetradecanoic acid (PFTeA)			40.0	39.04		ng/L		98	70 - 130	1	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-411226/3-A
Matrix: Water
Analysis Batch: 411454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 411226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)			35.4	37.40		ng/L		106	67 - 127	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	34.52		ng/L		95	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	40.88		ng/L		107	76 - 136	1	30
Perfluorooctanesulfonic acid (PFOS)			37.1	37.79		ng/L		102	70 - 130	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	38.93		ng/L		101	71 - 131	2	30
Perfluorooctanesulfonamide (FOSA)			40.0	45.31		ng/L		113	73 - 133	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	43.86		ng/L		110	76 - 136	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	42.04		ng/L		105	76 - 136	1	30
6:2 FTS			37.9	35.19		ng/L		93	59 - 175	6	30
8:2 FTS			38.3	40.25		ng/L		105	75 - 135	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*86*		*25 - 150*
13C5 PFPeA	*89*		*25 - 150*
13C2 PFHxA	*90*		*25 - 150*
13C4 PFHpA	*91*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*94*		*25 - 150*
13C2 PFDA	*95*		*25 - 150*
13C2 PFUnA	*96*		*25 - 150*
13C2 PFDoA	*88*		*25 - 150*
13C2 PFTeDA	*89*		*25 - 150*
13C3 PFBS	*94*		*25 - 150*
18O2 PFHxS	*94*		*25 - 150*
13C4 PFOS	*97*		*25 - 150*
13C8 FOSA	*81*		*25 - 150*
d3-NMeFOSAA	*79*		*25 - 150*
d5-NEtFOSAA	*79*		*25 - 150*
M2-6:2 FTS	*95*		*25 - 150*
M2-8:2 FTS	*92*		*25 - 150*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 722597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-2	MW-204	Total/NA	Water	8260C	
460-217547-3	MW-205	Total/NA	Water	8260C	
460-217547-7	FB	Total/NA	Water	8260C	
460-217547-8	TB	Total/NA	Water	8260C	
MB 460-722597/10	Method Blank	Total/NA	Water	8260C	
LCS 460-722597/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-722597/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 722709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-5	MW-213	Total/NA	Water	8260C	
MB 460-722709/8	Method Blank	Total/NA	Water	8260C	
LCS 460-722709/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-722709/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 722834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-1	MW-203	Total/NA	Water	8260C	
460-217547-4	MW-206	Total/NA	Water	8260C	
460-217547-6	DUP	Total/NA	Water	8260C	
MB 460-722834/9	Method Blank	Total/NA	Water	8260C	
LCS 460-722834/5	Lab Control Sample	Total/NA	Water	8260C	
460-217576-A-4 MS	Matrix Spike	Total/NA	Water	8260C	
460-217576-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

LCMS

Prep Batch: 410910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-1	MW-203	Total/NA	Water	3535	
460-217547-2	MW-204	Total/NA	Water	3535	
460-217547-3	MW-205	Total/NA	Water	3535	
460-217547-5	MW-213	Total/NA	Water	3535	
460-217547-6	DUP	Total/NA	Water	3535	
460-217547-7	FB	Total/NA	Water	3535	
MB 320-410910/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-410910/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-410910/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 411087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-7	FB	Total/NA	Water	537 (modified)	410910
MB 320-410910/1-A	Method Blank	Total/NA	Water	537 (modified)	410910
LCS 320-410910/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	410910
LCSD 320-410910/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	410910

Prep Batch: 411226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-4	MW-206	Total/NA	Water	3535	
MB 320-411226/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-411226/2-A	Lab Control Sample	Total/NA	Water	3535	

LCMS (Continued)

Prep Batch: 411226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-411226/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 411377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-1	MW-203	Total/NA	Water	537 (modified)	410910
460-217547-2	MW-204	Total/NA	Water	537 (modified)	410910
460-217547-3	MW-205	Total/NA	Water	537 (modified)	410910
460-217547-5	MW-213	Total/NA	Water	537 (modified)	410910
460-217547-6	DUP	Total/NA	Water	537 (modified)	410910

Analysis Batch: 411454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217547-4	MW-206	Total/NA	Water	537 (modified)	411226
MB 320-411226/1-A	Method Blank	Total/NA	Water	537 (modified)	411226
LCS 320-411226/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	411226
LCSD 320-411226/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	411226

Client Sample ID: MW-203
Date Collected: 09/02/20 13:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722834	09/10/20 00:42	AMS	TAL EDI
Total/NA	Prep	3535			410910	09/09/20 18:52	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411377	09/11/20 12:41	RS1	TAL SAC

Client Sample ID: MW-204
Date Collected: 09/02/20 11:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722597	09/09/20 06:21	AMS	TAL EDI
Total/NA	Prep	3535			410910	09/09/20 18:52	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411377	09/11/20 12:50	RS1	TAL SAC

Client Sample ID: MW-205
Date Collected: 09/02/20 12:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722597	09/09/20 06:44	AMS	TAL EDI
Total/NA	Prep	3535			410910	09/09/20 18:52	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411377	09/11/20 13:00	RS1	TAL SAC

Client Sample ID: MW-206
Date Collected: 09/02/20 10:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722834	09/10/20 01:06	AMS	TAL EDI
Total/NA	Prep	3535			411226	09/10/20 18:32	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	411454	09/11/20 15:25	IK	TAL SAC

Client Sample ID: MW-213
Date Collected: 09/02/20 09:40
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722709	09/09/20 11:42	CJM	TAL EDI
Total/NA	Prep	3535			410910	09/09/20 18:52	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411377	09/11/20 13:09	RS1	TAL SAC

Client Sample ID: DUP
Date Collected: 09/02/20 00:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722834	09/10/20 00:18	AMS	TAL EDI

Lab Chronicle

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217547-1

Client Sample ID: DUP
Date Collected: 09/02/20 00:00
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			410910	09/09/20 18:52	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411377	09/11/20 13:18	RS1	TAL SAC

Client Sample ID: FB
Date Collected: 09/02/20 14:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722597	09/09/20 02:49	AMS	TAL EDI
Total/NA	Prep	3535			410910	09/09/20 18:52	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411087	09/10/20 15:38	RS1	TAL SAC

Client Sample ID: TB
Date Collected: 09/02/20 14:30
Date Received: 09/03/20 16:45

Lab Sample ID: 460-217547-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722597	09/09/20 01:38	AMS	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: SESI Consulting Engineers
Job ID: 460-217547-1
Project/Site: Grossingers

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	10-31-20
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-1	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-203	460-217547-1	99	91	96	104
MW-204	460-217547-2	106	99	107	110
MW-205	460-217547-3	99	91	98	99
MW-206	460-217547-4	99	93	96	104
MW-213	460-217547-5	99	93	96	104
DUP	460-217547-6	102	96	94	104
FB	460-217547-7	96	87	99	96
TB	460-217547-8	98	91	99	99
	MB 460-722597/10	107	103	102	108
	MB 460-722709/8	99	94	97	101
	MB 460-722834/9	103	93	99	105
	LCS 460-722597/4	94	91	95	100
	LCS 460-722709/4	98	97	94	104
	LCS 460-722834/5	95	91	94	103
	LCSD 460-722597/5	94	88	96	98
	LCSD 460-722709/5	97	96	96	105
	460-217576-A-4 MS	107	103	102	117
	460-217576-A-4 MSD	100	98	95	108

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-124
DCA = 1,2-Dichloroethane-d4 (Surr)	75-123
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	76-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79482.D

Lab ID: LCS 460-722597/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.7	104	68-128	
1,1,2,2-Tetrachloroethane	20.0	18.9	94	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1	105	59-142	
1,1,2-Trichloroethane	20.0	18.7	93	74-125	
1,1-Dichloroethane	20.0	20.2	101	73-130	
1,1-Dichloroethene	20.0	20.7	104	68-133	
1,2,3-Trichlorobenzene	20.0	17.3	86	53-144	
1,2,4-Trichlorobenzene	20.0	19.3	97	64-132	
1,2-Dichloropropane	20.0	19.5	97	76-126	
1,3-Dichlorobenzene	20.0	21.0	105	80-121	
1,4-Dichlorobenzene	20.0	20.7	103	80-118	
1,4-Dioxane	400	434	109	70-142	
2-Butanone (MEK)	100	119	119	69-128	
2-Hexanone	100	125	125	74-127	
4-Methyl-2-pentanone (MIBK)	100	123	123	78-125	
Acetone	100	98.2	98	61-134	
Benzene	20.0	19.9	99	78-126	
Bromoform	20.0	18.1	90	38-144	
Bromomethane	20.0	32.6	163	10-150	*
Carbon disulfide	20.0	19.5	97	64-138	
Carbon tetrachloride	20.0	22.5	112	56-131	
Chlorobenzene	20.0	20.3	102	80-119	
Chlorobromomethane	20.0	20.3	101	73-126	
Chlorodibromomethane	20.0	18.9	94	58-130	
Chloroethane	20.0	20.2	101	29-150	
Chloroform	20.0	19.8	99	78-125	
Chloromethane	20.0	18.7	93	38-150	
cis-1,2-Dichloroethene	20.0	19.9	100	78-121	
cis-1,3-Dichloropropene	20.0	18.9	94	74-125	
Cyclohexane	20.0	20.3	102	67-133	
Dichlorobromomethane	20.0	19.9	99	72-121	
Dichlorodifluoromethane	20.0	19.9	99	31-150	
Ethylbenzene	20.0	20.7	103	78-120	
Ethylene Dibromide	20.0	18.9	95	69-126	
Isopropylbenzene	20.0	20.7	104	79-125	
Methyl acetate	40.0	48.2	121	70-127	
Methyl tert-butyl ether	20.0	19.2	96	65-131	
Methylcyclohexane	20.0	21.4	107	60-139	
Methylene Chloride	20.0	20.1	100	74-127	
m-Xylene & p-Xylene	20.0	21.3	107	78-123	
o-Xylene	20.0	20.4	102	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79482.D

Lab ID: LCS 460-722597/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	20.0	20.7	104	75-127	
Tetrachloroethene	20.0	21.0	105	70-127	
Toluene	20.0	20.2	101	78-119	
trans-1,2-Dichloroethene	20.0	20.7	103	74-126	
trans-1,3-Dichloropropene	20.0	19.4	97	66-127	
Trichloroethene	20.0	20.5	102	71-121	
Trichlorofluoromethane	20.0	20.7	103	61-140	
Vinyl chloride	20.0	19.4	97	61-144	
1,2-Dichloroethane	20.0	18.2	91	75-121	
1,2-Dichlorobenzene	20.0	20.7	104	79-122	
1,2-Dibromo-3-Chloropropane	20.0	18.5	93	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79507.D

Lab ID: LCS 460-722709/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.0	100	68-128	
1,1,2,2-Tetrachloroethane	20.0	19.9	100	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.2	106	59-142	
1,1,2-Trichloroethane	20.0	19.3	96	74-125	
1,1-Dichloroethane	20.0	19.2	96	73-130	
1,1-Dichloroethene	20.0	20.3	102	68-133	
1,2,3-Trichlorobenzene	20.0	18.4	92	53-144	
1,2,4-Trichlorobenzene	20.0	19.6	98	64-132	
1,2-Dichloropropane	20.0	19.1	95	76-126	
1,3-Dichlorobenzene	20.0	19.6	98	80-121	
1,4-Dichlorobenzene	20.0	19.7	98	80-118	
1,4-Dioxane	400	432	108	70-142	
2-Butanone (MEK)	100	103	103	69-128	
2-Hexanone	100	108	108	74-127	
4-Methyl-2-pentanone (MIBK)	100	103	103	78-125	
Acetone	100	87.0	87	61-134	
Benzene	20.0	18.7	94	78-126	
Bromoform	20.0	18.9	95	38-144	
Bromomethane	20.0	18.3	92	10-150	
Carbon disulfide	20.0	19.2	96	64-138	
Carbon tetrachloride	20.0	21.8	109	56-131	
Chlorobenzene	20.0	19.4	97	80-119	
Chlorobromomethane	20.0	20.3	102	73-126	
Chlorodibromomethane	20.0	19.6	98	58-130	
Chloroethane	20.0	18.5	93	29-150	
Chloroform	20.0	19.7	98	78-125	
Chloromethane	20.0	17.9	90	38-150	
cis-1,2-Dichloroethene	20.0	19.8	99	78-121	
cis-1,3-Dichloropropene	20.0	19.0	95	74-125	
Cyclohexane	20.0	20.2	101	67-133	
Dichlorobromomethane	20.0	19.5	98	72-121	
Dichlorodifluoromethane	20.0	19.9	100	31-150	
Ethylbenzene	20.0	19.8	99	78-120	
Ethylene Dibromide	20.0	20.0	100	69-126	
Isopropylbenzene	20.0	20.0	100	79-125	
Methyl acetate	40.0	38.4	96	70-127	
Methyl tert-butyl ether	20.0	20.5	102	65-131	
Methylcyclohexane	20.0	21.4	107	60-139	
Methylene Chloride	20.0	20.2	101	74-127	
m-Xylene & p-Xylene	20.0	20.6	103	78-123	
o-Xylene	20.0	19.5	97	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79507.D

Lab ID: LCS 460-722709/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	20.0	20.1	101	75-127	
Tetrachloroethene	20.0	20.3	102	70-127	
Toluene	20.0	19.6	98	78-119	
trans-1,2-Dichloroethene	20.0	19.5	97	74-126	
trans-1,3-Dichloropropene	20.0	19.5	98	66-127	
Trichloroethene	20.0	20.6	103	71-121	
Trichlorofluoromethane	20.0	21.6	108	61-140	
Vinyl chloride	20.0	18.6	93	61-144	
1,2-Dichloroethane	20.0	18.9	95	75-121	
1,2-Dichlorobenzene	20.0	20.0	100	79-122	
1,2-Dibromo-3-Chloropropane	20.0	21.9	110	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79534.D

Lab ID: LCS 460-722834/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.6	103	68-128	
1,1,2,2-Tetrachloroethane	20.0	19.4	97	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.4	107	59-142	
1,1,2-Trichloroethane	20.0	18.7	94	74-125	
1,1-Dichloroethane	20.0	19.5	98	73-130	
1,1-Dichloroethene	20.0	20.8	104	68-133	
1,2,3-Trichlorobenzene	20.0	18.5	93	53-144	
1,2,4-Trichlorobenzene	20.0	19.8	99	64-132	
1,2-Dichloropropane	20.0	19.2	96	76-126	
1,3-Dichlorobenzene	20.0	21.0	105	80-121	
1,4-Dichlorobenzene	20.0	20.6	103	80-118	
1,4-Dioxane	400	445	111	70-142	
2-Butanone (MEK)	100	120	120	69-128	
2-Hexanone	100	120	120	74-127	
4-Methyl-2-pentanone (MIBK)	100	118	118	78-125	
Acetone	100	100	100	61-134	
Benzene	20.0	19.5	98	78-126	
Bromoform	20.0	19.6	98	38-144	
Bromomethane	20.0	23.7	119	10-150	
Carbon disulfide	20.0	19.4	97	64-138	
Carbon tetrachloride	20.0	22.8	114	56-131	
Chlorobenzene	20.0	20.8	104	80-119	
Chlorobromomethane	20.0	20.1	100	73-126	
Chlorodibromomethane	20.0	19.2	96	58-130	
Chloroethane	20.0	17.2	86	29-150	
Chloroform	20.0	19.8	99	78-125	
Chloromethane	20.0	16.1	80	38-150	
cis-1,2-Dichloroethene	20.0	20.1	100	78-121	
cis-1,3-Dichloropropene	20.0	19.0	95	74-125	
Cyclohexane	20.0	19.7	99	67-133	
Dichlorobromomethane	20.0	19.7	99	72-121	
Dichlorodifluoromethane	20.0	15.3	77	31-150	
Ethylbenzene	20.0	20.7	104	78-120	
Ethylene Dibromide	20.0	20.2	101	69-126	
Isopropylbenzene	20.0	20.8	104	79-125	
Methyl acetate	40.0	42.7	107	70-127	
Methyl tert-butyl ether	20.0	19.5	98	65-131	
Methylcyclohexane	20.0	20.8	104	60-139	
Methylene Chloride	20.0	20.3	102	74-127	
m-Xylene & p-Xylene	20.0	21.4	107	78-123	
o-Xylene	20.0	20.5	103	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79534.D

Lab ID: LCS 460-722834/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	20.0	21.3	106	75-127	
Tetrachloroethene	20.0	21.5	108	70-127	
Toluene	20.0	20.3	101	78-119	
trans-1,2-Dichloroethene	20.0	20.5	103	74-126	
trans-1,3-Dichloropropene	20.0	19.4	97	66-127	
Trichloroethene	20.0	21.5	107	71-121	
Trichlorofluoromethane	20.0	19.7	99	61-140	
Vinyl chloride	20.0	17.2	86	61-144	
1,2-Dichloroethane	20.0	18.8	94	75-121	
1,2-Dichlorobenzene	20.0	20.8	104	79-122	
1,2-Dibromo-3-Chloropropane	20.0	19.9	100	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79483.D

Lab ID: LCSD 460-722597/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.8	104	0	30	68-128	
1,1,2,2-Tetrachloroethane	20.0	18.2	91	3	30	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.7	109	3	30	59-142	
1,1,2-Trichloroethane	20.0	18.2	91	3	30	74-125	
1,1-Dichloroethane	20.0	19.7	98	3	30	73-130	
1,1-Dichloroethene	20.0	21.1	106	2	30	68-133	
1,2,3-Trichlorobenzene	20.0	17.7	88	2	30	53-144	
1,2,4-Trichlorobenzene	20.0	18.8	94	2	30	64-132	
1,2-Dichloropropane	20.0	19.6	98	1	30	76-126	
1,3-Dichlorobenzene	20.0	21.2	106	1	30	80-121	
1,4-Dichlorobenzene	20.0	20.9	105	1	30	80-118	
1,4-Dioxane	400	483	121	11	30	70-142	
2-Butanone (MEK)	100	126	126	6	30	69-128	
2-Hexanone	100	125	125	1	30	74-127	
4-Methyl-2-pentanone (MIBK)	100	124	124	1	30	78-125	
Acetone	100	107	107	9	30	61-134	
Benzene	20.0	19.8	99	0	30	78-126	
Bromoform	20.0	17.5	88	3	30	38-144	
Bromomethane	20.0	34.5	173	6	30	10-150	*
Carbon disulfide	20.0	19.9	99	2	30	64-138	
Carbon tetrachloride	20.0	22.8	114	1	30	56-131	
Chlorobenzene	20.0	20.5	102	1	30	80-119	
Chlorobromomethane	20.0	19.7	99	3	30	73-126	
Chlorodibromomethane	20.0	18.0	90	5	30	58-130	
Chloroethane	20.0	19.9	99	2	30	29-150	
Chloroform	20.0	19.6	98	1	30	78-125	
Chloromethane	20.0	18.7	94	0	30	38-150	
cis-1,2-Dichloroethene	20.0	19.9	99	0	30	78-121	
cis-1,3-Dichloropropene	20.0	18.9	95	0	30	74-125	
Cyclohexane	20.0	20.4	102	0	30	67-133	
Dichlorobromomethane	20.0	19.5	97	2	30	72-121	
Dichlorodifluoromethane	20.0	19.8	99	0	30	31-150	
Ethylbenzene	20.0	20.9	104	1	30	78-120	
Ethylene Dibromide	20.0	18.5	93	2	30	69-126	
Isopropylbenzene	20.0	21.0	105	1	30	79-125	
Methyl acetate	40.0	48.0	120	0	30	70-127	
Methyl tert-butyl ether	20.0	18.1	91	6	30	65-131	
Methylcyclohexane	20.0	21.6	108	1	30	60-139	
Methylene Chloride	20.0	20.3	101	1	30	74-127	
m-Xylene & p-Xylene	20.0	21.7	108	2	30	78-123	
o-Xylene	20.0	20.5	103	1	30	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79483.D

Lab ID: LCSD 460-722597/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	21.1	106	2	30	75-127	
Tetrachloroethene	20.0	21.1	105	1	30	70-127	
Toluene	20.0	20.4	102	1	30	78-119	
trans-1,2-Dichloroethene	20.0	20.4	102	1	30	74-126	
trans-1,3-Dichloropropene	20.0	18.8	94	3	30	66-127	
Trichloroethene	20.0	21.1	106	3	30	71-121	
Trichlorofluoromethane	20.0	21.9	109	6	30	61-140	
Vinyl chloride	20.0	19.5	97	1	30	61-144	
1,2-Dichloroethane	20.0	18.1	90	0	30	75-121	
1,2-Dichlorobenzene	20.0	20.7	104	0	30	79-122	
1,2-Dibromo-3-Chloropropane	20.0	18.5	93	0	30	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79508.D

Lab ID: LCSD 460-722709/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.8	104	4	30	68-128	
1,1,2,2-Tetrachloroethane	20.0	20.1	100	1	30	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.1	111	4	30	59-142	
1,1,2-Trichloroethane	20.0	20.2	101	4	30	74-125	
1,1-Dichloroethane	20.0	19.2	96	0	30	73-130	
1,1-Dichloroethene	20.0	21.0	105	3	30	68-133	
1,2,3-Trichlorobenzene	20.0	19.2	96	4	30	53-144	
1,2,4-Trichlorobenzene	20.0	19.6	98	0	30	64-132	
1,2-Dichloropropane	20.0	19.8	99	3	30	76-126	
1,3-Dichlorobenzene	20.0	20.3	102	3	30	80-121	
1,4-Dichlorobenzene	20.0	20.0	100	1	30	80-118	
1,4-Dioxane	400	478	119	10	30	70-142	
2-Butanone (MEK)	100	106	106	3	30	69-128	
2-Hexanone	100	109	109	1	30	74-127	
4-Methyl-2-pentanone (MIBK)	100	105	105	2	30	78-125	
Acetone	100	91.9	92	5	30	61-134	
Benzene	20.0	19.6	98	5	30	78-126	
Bromoform	20.0	20.1	100	6	30	38-144	
Bromomethane	20.0	19.4	97	6	30	10-150	
Carbon disulfide	20.0	19.5	97	1	30	64-138	
Carbon tetrachloride	20.0	22.6	113	3	30	56-131	
Chlorobenzene	20.0	20.1	100	4	30	80-119	
Chlorobromomethane	20.0	20.4	102	0	30	73-126	
Chlorodibromomethane	20.0	20.4	102	4	30	58-130	
Chloroethane	20.0	14.9	75	21	30	29-150	
Chloroform	20.0	19.7	98	0	30	78-125	
Chloromethane	20.0	17.7	89	1	30	38-150	
cis-1,2-Dichloroethene	20.0	20.0	100	1	30	78-121	
cis-1,3-Dichloropropene	20.0	19.1	95	1	30	74-125	
Cyclohexane	20.0	20.4	102	1	30	67-133	
Dichlorobromomethane	20.0	19.8	99	1	30	72-121	
Dichlorodifluoromethane	20.0	19.9	99	0	30	31-150	
Ethylbenzene	20.0	20.4	102	3	30	78-120	
Ethylene Dibromide	20.0	21.2	106	6	30	69-126	
Isopropylbenzene	20.0	20.6	103	3	30	79-125	
Methyl acetate	40.0	38.6	96	1	30	70-127	
Methyl tert-butyl ether	20.0	20.9	105	2	30	65-131	
Methylcyclohexane	20.0	21.7	108	1	30	60-139	
Methylene Chloride	20.0	20.2	101	0	30	74-127	
m-Xylene & p-Xylene	20.0	20.9	105	1	30	78-123	
o-Xylene	20.0	20.2	101	4	30	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79508.D

Lab ID: LCSD 460-722709/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	20.7	104	3	30	75-127	
Tetrachloroethene	20.0	21.4	107	5	30	70-127	
Toluene	20.0	20.0	100	2	30	78-119	
trans-1,2-Dichloroethene	20.0	20.9	104	7	30	74-126	
trans-1,3-Dichloropropene	20.0	20.5	103	5	30	66-127	
Trichloroethene	20.0	21.1	105	3	30	71-121	
Trichlorofluoromethane	20.0	21.7	109	0	30	61-140	
Vinyl chloride	20.0	19.2	96	3	30	61-144	
1,2-Dichloroethane	20.0	19.3	96	2	30	75-121	
1,2-Dichlorobenzene	20.0	20.2	101	1	30	79-122	
1,2-Dibromo-3-Chloropropane	20.0	21.7	108	1	30	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79554.D

Lab ID: 460-217576-A-4 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	0.24 U	24.0	120	68-128	
1,1,2,2-Tetrachloroethane	20.0	0.37 U	23.8	119	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	0.31 U	23.9	119	59-142	
1,1,2-Trichloroethane	20.0	0.43 U	23.0	115	74-125	
1,1-Dichloroethane	20.0	0.26 U	21.9	109	73-130	
1,1-Dichloroethene	20.0	0.26 U	23.5	117	68-133	
1,2,3-Trichlorobenzene	20.0	0.36 U	22.1	110	53-144	
1,2,4-Trichlorobenzene	20.0	0.37 U	23.3	117	64-132	
1,2-Dichloropropane	20.0	0.35 U	22.1	110	76-126	
1,3-Dichlorobenzene	20.0	0.34 U	23.7	119	80-121	
1,4-Dichlorobenzene	20.0	0.33 U	23.5	117	80-118	
1,4-Dioxane	400	28 U	457	114	70-142	
2-Butanone (MEK)	100	1.9 U	159	159	69-128	F1
2-Hexanone	100	1.1 U	162	162	74-127	F1
4-Methyl-2-pentanone (MIBK)	100	1.3 U	162	162	78-125	F1
Acetone	100	4.4 U	136	136	61-134	F1
Benzene	20.0	0.20 U	21.8	109	78-126	
Bromoform	20.0	0.54 U	25.4	127	38-144	
Bromomethane	20.0	0.55 U	26.6	133	10-150	
Carbon disulfide	20.0	0.82 U	21.9	109	64-138	
Carbon tetrachloride	20.0	0.21 U	25.9	129	56-131	
Chlorobenzene	20.0	0.38 U	23.6	118	80-119	
Chlorobromomethane	20.0	0.41 U	25.7	128	73-126	F1
Chlorodibromomethane	20.0	0.28 U	23.7	118	58-130	
Chloroethane	20.0	0.32 U	20.0	100	29-150	
Chloroform	20.0	0.33 U	23.3	117	78-125	
Chloromethane	20.0	0.40 U	17.6	88	38-150	
cis-1,2-Dichloroethene	20.0	4.5	28.8	122	78-121	F1
cis-1,3-Dichloropropene	20.0	0.22 U	20.7	104	74-125	
Cyclohexane	20.0	0.32 U	21.2	106	67-133	
Dichlorobromomethane	20.0	0.34 U	23.8	119	72-121	
Dichlorodifluoromethane	20.0	0.31 U	17.7	88	31-150	
Ethylbenzene	20.0	0.30 U	23.6	118	78-120	
Ethylene Dibromide	20.0	0.50 U	24.5	122	69-126	
Isopropylbenzene	20.0	0.34 U	23.3	116	79-125	
Methyl acetate	40.0	0.79 U	43.5	109	70-127	
Methyl tert-butyl ether	20.0	0.47 U	25.7	129	65-131	
Methylcyclohexane	20.0	0.26 U	23.2	116	60-139	
Methylene Chloride	20.0	0.32 U	23.9	119	74-127	
m-Xylene & p-Xylene	20.0	0.30 U	24.4	122	78-123	
o-Xylene	20.0	0.36 U	23.0	115	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79554.D

Lab ID: 460-217576-A-4 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Styrene	20.0	0.42 U	23.9	120	75-127	
Tetrachloroethene	20.0	2.7	27.2	123	70-127	
Toluene	20.0	0.38 U	22.9	115	78-119	
trans-1,2-Dichloroethene	20.0	0.24 U	24.0	120	74-126	
trans-1,3-Dichloropropene	20.0	0.49 U	21.3	106	66-127	
Trichloroethene	20.0	1.3	26.5	126	71-121	F1
Trichlorofluoromethane	20.0	0.32 U	23.1	116	61-140	
Vinyl chloride	20.0	0.17 U	19.7	99	61-144	
1,2-Dichloroethane	20.0	0.43 U	22.6	113	75-121	
1,2-Dichlorobenzene	20.0	0.43 U	23.6	118	79-122	
1,2-Dibromo-3-Chloropropane	20.0	0.38 U	26.7	134	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79555.D

Lab ID: 460-217576-A-4 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.8	99	19	30	68-128	
1,1,2,2-Tetrachloroethane	20.0	19.2	96	21	30	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.5	98	20	30	59-142	
1,1,2-Trichloroethane	20.0	19.0	95	19	30	74-125	
1,1-Dichloroethane	20.0	17.9	90	20	30	73-130	
1,1-Dichloroethene	20.0	19.4	97	19	30	68-133	
1,2,3-Trichlorobenzene	20.0	19.8	99	11	30	53-144	
1,2,4-Trichlorobenzene	20.0	19.3	97	19	30	64-132	
1,2-Dichloropropane	20.0	17.8	89	21	30	76-126	
1,3-Dichlorobenzene	20.0	19.6	98	19	30	80-121	
1,4-Dichlorobenzene	20.0	19.3	97	19	30	80-118	
1,4-Dioxane	400	405	101	12	30	70-142	
2-Butanone (MEK)	100	125	125	24	30	69-128	
2-Hexanone	100	124	124	27	30	74-127	
4-Methyl-2-pentanone (MIBK)	100	124	124	26	30	78-125	
Acetone	100	108	108	23	30	61-134	
Benzene	20.0	17.9	89	20	30	78-126	
Bromoform	20.0	20.7	103	20	30	38-144	
Bromomethane	20.0	22.2	111	18	30	10-150	
Carbon disulfide	20.0	18.1	90	19	30	64-138	
Carbon tetrachloride	20.0	21.3	107	19	30	56-131	
Chlorobenzene	20.0	19.3	96	20	30	80-119	
Chlorobromomethane	20.0	20.3	101	24	30	73-126	
Chlorodibromomethane	20.0	19.1	96	21	30	58-130	
Chloroethane	20.0	17.5	87	14	30	29-150	
Chloroform	20.0	19.1	96	20	30	78-125	
Chloromethane	20.0	15.5	77	13	30	38-150	
cis-1,2-Dichloroethene	20.0	23.1	93	22	30	78-121	
cis-1,3-Dichloropropene	20.0	16.8	84	21	30	74-125	
Cyclohexane	20.0	17.2	86	21	30	67-133	
Dichlorobromomethane	20.0	19.4	97	21	30	72-121	
Dichlorodifluoromethane	20.0	15.9	79	11	30	31-150	
Ethylbenzene	20.0	19.2	96	21	30	78-120	
Ethylene Dibromide	20.0	20.0	100	20	30	69-126	
Isopropylbenzene	20.0	19.4	97	18	30	79-125	
Methyl acetate	40.0	32.9	82	28	30	70-127	
Methyl tert-butyl ether	20.0	20.8	104	21	30	65-131	
Methylcyclohexane	20.0	19.1	95	19	30	60-139	
Methylene Chloride	20.0	19.4	97	20	30	74-127	
m-Xylene & p-Xylene	20.0	19.6	98	22	30	78-123	
o-Xylene	20.0	19.1	96	18	30	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P79555.D

Lab ID: 460-217576-A-4 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	19.6	98	20	30	75-127	
Tetrachloroethene	20.0	23.0	102	17	30	70-127	
Toluene	20.0	19.0	95	19	30	78-119	
trans-1,2-Dichloroethene	20.0	19.7	99	20	30	74-126	
trans-1,3-Dichloropropene	20.0	18.3	91	15	30	66-127	
Trichloroethene	20.0	21.6	102	20	30	71-121	
Trichlorofluoromethane	20.0	20.0	100	15	30	61-140	
Vinyl chloride	20.0	16.7	84	16	30	61-144	
1,2-Dichloroethane	20.0	18.0	90	23	30	75-121	
1,2-Dichlorobenzene	20.0	19.5	97	19	30	79-122	
1,2-Dibromo-3-Chloropropane	20.0	21.0	105	24	30	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79488.D Lab Sample ID: MB 460-722597/10

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS13 Date Analyzed: 09/08/2020 22:33

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-722597/4	P79482.D	09/08/2020 20:12
	LCSD 460-722597/5	P79483.D	09/08/2020 20:35
TB	460-217547-8	P79489.D	09/09/2020 01:38
FB	460-217547-7	P79492.D	09/09/2020 02:49
MW-204	460-217547-2	P79501.D	09/09/2020 06:21
MW-205	460-217547-3	P79502.D	09/09/2020 06:44

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79511.D Lab Sample ID: MB 460-722709/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS13 Date Analyzed: 09/09/2020 10:31

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-722709/4	P79507.D	09/09/2020 08:57
	LCSD 460-722709/5	P79508.D	09/09/2020 09:20
MW-213	460-217547-5	P79514.D	09/09/2020 11:42

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79538.D Lab Sample ID: MB 460-722834/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS13 Date Analyzed: 09/09/2020 21:01

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-722834/5	P79534.D	09/09/2020 19:27
DUP	460-217547-6	P79546.D	09/10/2020 00:18
MW-203	460-217547-1	P79547.D	09/10/2020 00:42
MW-206	460-217547-4	P79548.D	09/10/2020 01:06
	460-217576-A-4 MS	P79554.D	09/10/2020 03:28
	460-217576-A-4 MSD	P79555.D	09/10/2020 03:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79350.D BFB Injection Date: 09/04/2020

Instrument ID: CVOAMS13 BFB Injection Time: 13:21

Analysis Batch No.: 721970

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	48.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	6.6	(8.0) 1
176	95.0 - 101.0 % of mass 174	79.8	(96.3) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-721970/3	P79352.D	09/04/2020	14:09
	STD1 460-721970/4	P79354.D	09/04/2020	14:57
	STD5 460-721970/5	P79355.D	09/04/2020	15:21
	STD20 460-721970/6	P79356.D	09/04/2020	15:45
	STD50 460-721970/7	P79357.D	09/04/2020	16:09
	STD200 460-721970/8	P79358.D	09/04/2020	16:33
	STD500 460-721970/9	P79359.D	09/04/2020	16:58
	ICV 460-721970/18	P79368.D	09/04/2020	20:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79479.D BFB Injection Date: 09/08/2020

Instrument ID: CVOAMS13 BFB Injection Time: 19:03

Analysis Batch No.: 722597

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.7	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	Greater than 50% of mass 95	96.3	
175	5.0 - 9.0 % of mass 174	7.2	(7.5) 1
176	95.0 - 101.0 % of mass 174	91.9	(95.5) 1
177	5.0 - 9.0 % of mass 176	6.3	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-722597/3	P79481.D	09/08/2020	19:49
	LCS 460-722597/4	P79482.D	09/08/2020	20:12
	LCSD 460-722597/5	P79483.D	09/08/2020	20:35
	MB 460-722597/10	P79488.D	09/08/2020	22:33
TB	460-217547-8	P79489.D	09/09/2020	1:38
FB	460-217547-7	P79492.D	09/09/2020	2:49
MW-204	460-217547-2	P79501.D	09/09/2020	6:21
MW-205	460-217547-3	P79502.D	09/09/2020	6:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79504.D BFB Injection Date: 09/09/2020

Instrument ID: CVOAMS13 BFB Injection Time: 07:47

Analysis Batch No.: 722709

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	42.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.2	
173	Less than 2.0 % of mass 174	0.8	(0.8) 1
174	Greater than 50% of mass 95	89.5	
175	5.0 - 9.0 % of mass 174	7.2	(8.0) 1
176	95.0 - 101.0 % of mass 174	85.9	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-722709/3	P79506.D	09/09/2020	8:33
	LCS 460-722709/4	P79507.D	09/09/2020	8:57
	LCSD 460-722709/5	P79508.D	09/09/2020	9:20
	MB 460-722709/8	P79511.D	09/09/2020	10:31
MW-213	460-217547-5	P79514.D	09/09/2020	11:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab File ID: P79530.D BFB Injection Date: 09/09/2020

Instrument ID: CVOAMS13 BFB Injection Time: 17:54

Analysis Batch No.: 722834

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	Greater than 50% of mass 95	86.6	
175	5.0 - 9.0 % of mass 174	7.5	(8.6) 1
176	95.0 - 101.0 % of mass 174	84.7	(97.8) 1
177	5.0 - 9.0 % of mass 176	6.7	(7.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-722834/4	P79533.D	09/09/2020	19:04
	LCS 460-722834/5	P79534.D	09/09/2020	19:27
	MB 460-722834/9	P79538.D	09/09/2020	21:01
DUP	460-217547-6	P79546.D	09/10/2020	0:18
MW-203	460-217547-1	P79547.D	09/10/2020	0:42
MW-206	460-217547-4	P79548.D	09/10/2020	1:06
	460-217576-A-4 MS	P79554.D	09/10/2020	3:28
	460-217576-A-4 MSD	P79555.D	09/10/2020	3:52

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: STD20 460-721970/6 Date Analyzed: 09/04/2020 15:45

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79356.D Heated Purge: (Y/N) N

Calibration ID: 81791

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		111415	1.86	142853	2.83	570384	3.39
UPPER LIMIT		222830	2.36	285706	3.33	1140768	3.89
LOWER LIMIT		55708	1.36	71427	2.33	285192	2.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-721970/18		97671	1.86	133699	2.83	520222	3.39

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: STD20 460-721970/6 Date Analyzed: 09/04/2020 15:45

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79356.D Heated Purge: (Y/N) N

Calibration ID: 81791

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14880	4.24	396072	6.72	220745	10.23
UPPER LIMIT		29760	4.74	792144	7.22	441490	10.73
LOWER LIMIT		7440	3.74	198036	6.22	110373	9.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-721970/18		13148	4.24	368030	6.72	205232	10.23

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: CCVIS 460-722597/3 Date Analyzed: 09/08/2020 19:49

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79481.D Heated Purge: (Y/N) N

Calibration ID: 81791

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		87627	1.85	112681	2.83	577608	3.39
UPPER LIMIT		175254	2.35	225362	3.33	1155216	3.89
LOWER LIMIT		43814	1.35	56341	2.33	288804	2.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722597/4		88603	1.85	110078	2.83	568410	3.39
LCSD 460-722597/5		85867	1.85	102909	2.83	565626	3.39
MB 460-722597/10		103726	1.85	130040	2.83	495972	3.39
460-217547-8	TB	101652	1.85	126732	2.83	590943	3.39
460-217547-7	FB	88671	1.85	88294	2.83	552302	3.39
460-217547-2	MW-204	92157	1.85	106832	2.83	495163	3.39
460-217547-3	MW-205	98990	1.85	119061	2.83	536849	3.39

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: CCVIS 460-722597/3 Date Analyzed: 09/08/2020 19:49

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79481.D Heated Purge: (Y/N) N

Calibration ID: 81791

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		13500	4.24	409547	6.72	226879	10.23
UPPER LIMIT		27000	4.74	819094	7.22	453758	10.73
LOWER LIMIT		6750	3.74	204774	6.22	113440	9.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722597/4		12814	4.24	412206	6.72	224246	10.23
LCSD 460-722597/5		11441	4.24	407770	6.72	218624	10.23
MB 460-722597/10		14125	4.25	360979	6.72	201418	10.23
460-217547-8	TB	15259	4.24	413624	6.72	221706	10.23
460-217547-7	FB	12188	4.25	392651	6.72	206548	10.23
460-217547-2	MW-204	12461	4.25	351522	6.72	192202	10.23
460-217547-3	MW-205	13109	4.24	386942	6.72	210862	10.23

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: CCVIS 460-722709/3 Date Analyzed: 09/09/2020 08:33

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79506.D Heated Purge: (Y/N) N

Calibration ID: 81791

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		100786	1.85	114143	2.83	567265	3.39
UPPER LIMIT		201572	2.35	228286	3.33	1134530	3.89
LOWER LIMIT		50393	1.35	57072	2.33	283633	2.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722709/4		113614	1.85	145323	2.83	553525	3.39
LCSD 460-722709/5		115607	1.85	143241	2.83	556895	3.39
MB 460-722709/8		114331	1.85	126850	2.83	537540	3.39
460-217547-5	MW-213	101548	1.85	115323	2.83	534191	3.39

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: CCVIS 460-722709/3 Date Analyzed: 09/09/2020 08:33

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79506.D Heated Purge: (Y/N) N

Calibration ID: 81791

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		14807	4.24	406183	6.72	224702	10.23
UPPER LIMIT		29614	4.74	812366	7.22	449404	10.73
LOWER LIMIT		7404	3.74	203092	6.22	112351	9.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722709/4		16021	4.24	407654	6.72	229833	10.23
LCSD 460-722709/5		14367	4.24	402348	6.72	231809	10.23
MB 460-722709/8		14451	4.24	389344	6.72	216799	10.23
460-217547-5	MW-213	13474	4.24	385835	6.72	212790	10.23

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: CCVIS 460-722834/4 Date Analyzed: 09/09/2020 19:04

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79533.D Heated Purge: (Y/N) N

Calibration ID: 81791

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		87155	1.85	100164	2.83	506797	3.39
UPPER LIMIT		174310	2.35	200328	3.33	1013594	3.89
LOWER LIMIT		43578	1.35	50082	2.33	253399	2.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722834/5		96105	1.85	114017	2.83	540454	3.39
MB 460-722834/9		83555	1.85	96067	2.83	488796	3.39
460-217547-6	DUP	114140	1.85	115660	2.83	499346	3.39
460-217547-1	MW-203	104510	1.85	91098	2.83	508927	3.39
460-217547-4	MW-206	104940	1.85	93383	2.83	504275	3.39
460-217576-A-4 MS		96087	1.85	94971	2.83	467866	3.39
460-217576-A-4 MSD		107546	1.85	106756	2.83	503910	3.39

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Sample No.: CCVIS 460-722834/4 Date Analyzed: 09/09/2020 19:04

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P79533.D Heated Purge: (Y/N) N

Calibration ID: 81791

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		12024	4.24	373898	6.72	207926	10.23
UPPER LIMIT		24048	4.74	747796	7.22	415852	10.73
LOWER LIMIT		6012	3.74	186949	6.22	103963	9.73
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722834/5		14129	4.24	393935	6.72	221549	10.23
MB 460-722834/9		11233	4.25	353801	6.72	197833	10.23
460-217547-6	DUP	15872	4.25	372705	6.72	206109	10.23
460-217547-1	MW-203	13656	4.24	373703	6.72	207010	10.23
460-217547-4	MW-206	14371	4.25	370822	6.72	206121	10.23
460-217576-A-4 MS		14294	4.24	351265	6.72	199106	10.23
460-217576-A-4 MSD		15564	4.24	377909	6.72	216814	10.23

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-203 Lab Sample ID: 460-217547-1

Matrix: Water Lab File ID: P79547.D

Analysis Method: 8260C Date Collected: 09/02/2020 13:00

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 00:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	2.2	J	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	5.3		5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.57	J	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.55	J	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.68	J	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-203 Lab Sample ID: 460-217547-1

Matrix: Water Lab File ID: P79547.D

Analysis Method: 8260C Date Collected: 09/02/2020 13:00

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 00:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.48	J	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-123
460-00-4	4-Bromofluorobenzene	104		76-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-124
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-203 Lab Sample ID: 460-217547-1

Matrix: Water Lab File ID: P79547.D

Analysis Method: 8260C Date Collected: 09/02/2020 13:00

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 00:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D
Lims ID: 460-217547-A-1
Client ID: MW-203
Sample Type: Client
Inject. Date: 10-Sep-2020 00:42:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-A-1
Misc. Info.: 460-0116494-018
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: yallabg Date: 10-Sep-2020 00:20:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
28 Acetone	43	1.709	1.709	0.000	83	1578	5.27	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	104510	1000.0	
44 Cyclohexane	56	2.583	2.583	0.000	89	2762	0.5673	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	107963	49.3	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	99	91098	250.0	
54 2-Butanone (MEK)	72	2.862	2.863	0.000	55	295	2.22	a
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	100544	45.7	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	508927	50.0	
68 Methylcyclohexane	83	3.507	3.507	0.000	91	2154	0.4796	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	63	13656	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	461555	47.9	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	84	373703	50.0	
98 Ethylbenzene	106	6.852	6.831	0.021	96	2303	0.5534	
105 Isopropylbenzene	105	8.127	8.113	0.014	96	8719	0.6808	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	97	157448	52.0	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	93	207010	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

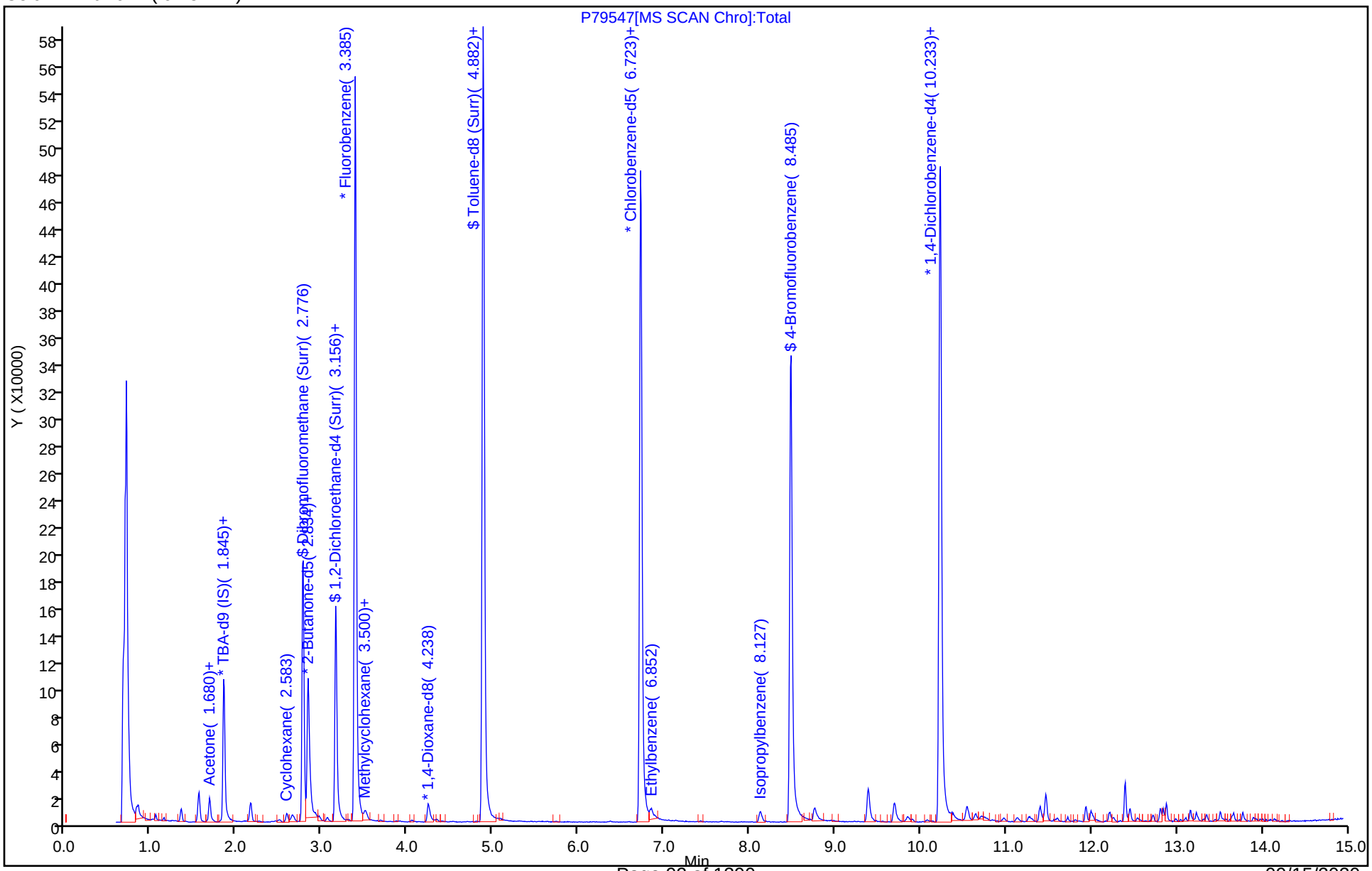
Report Date: 10-Sep-2020 14:26:20 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D

Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1	Worklist Smp#:	18
Client ID:	MW-203				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

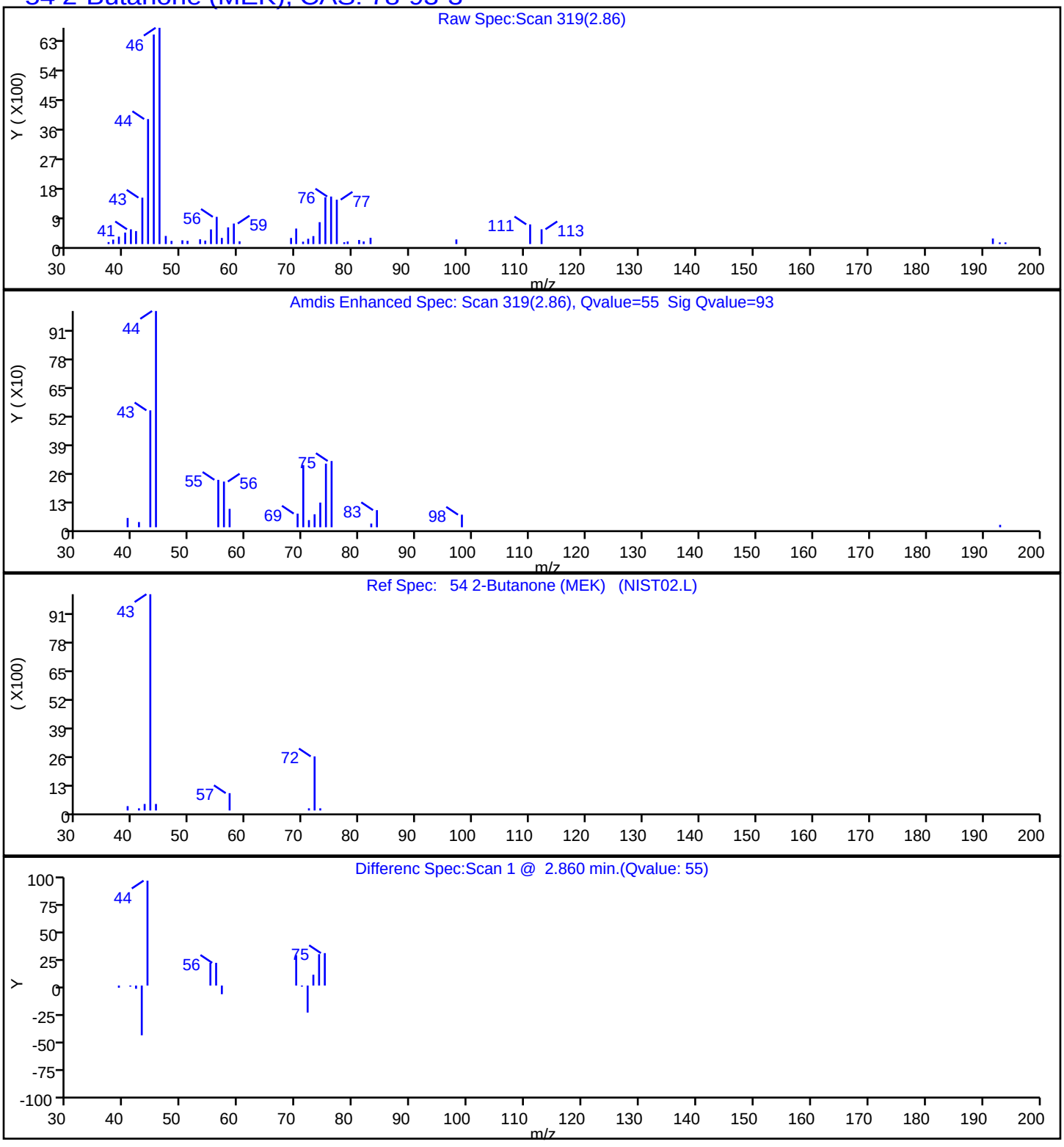
Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

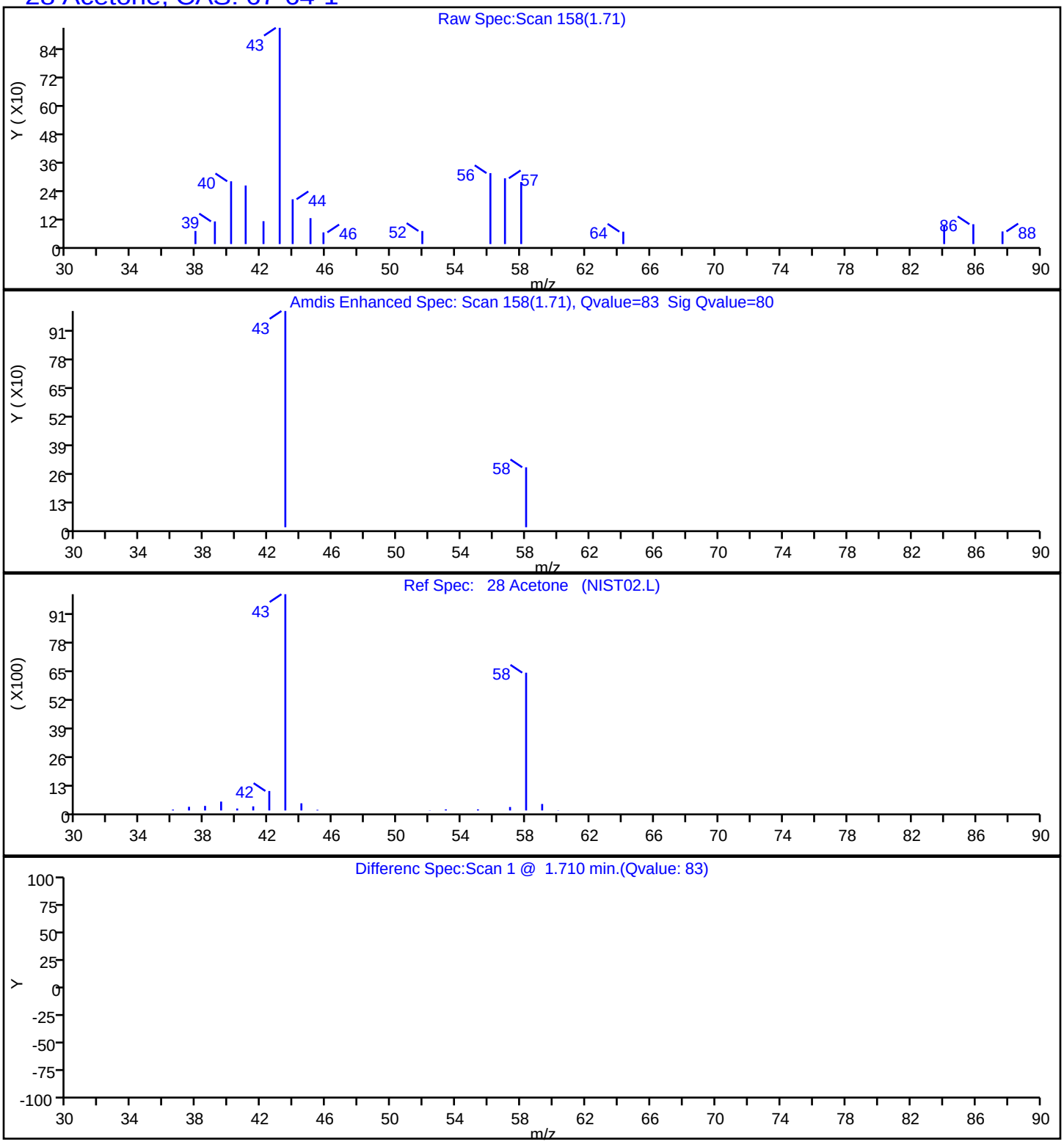
54 2-Butanone (MEK), CAS: 78-93-3



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

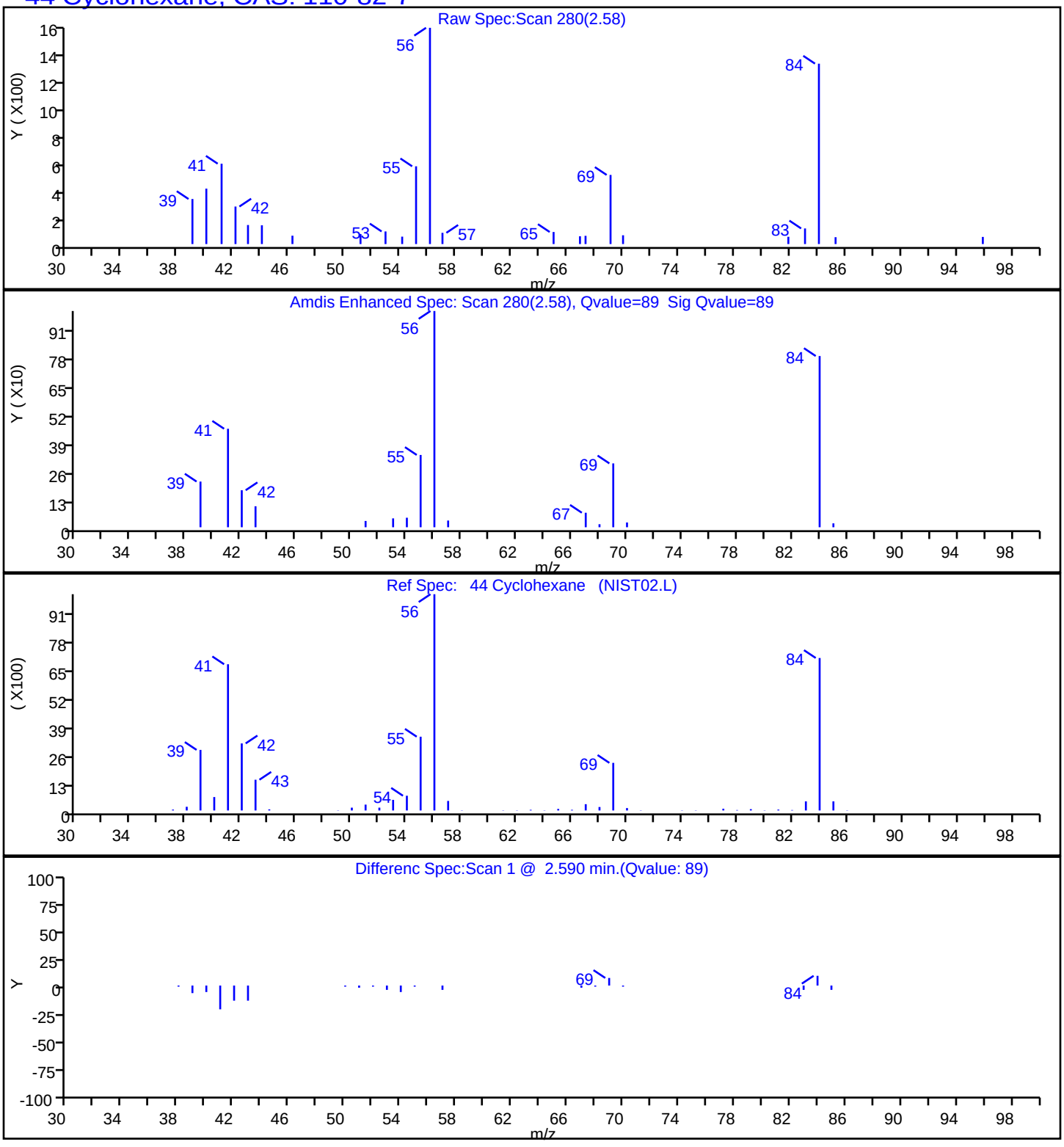
28 Acetone, CAS: 67-64-1



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

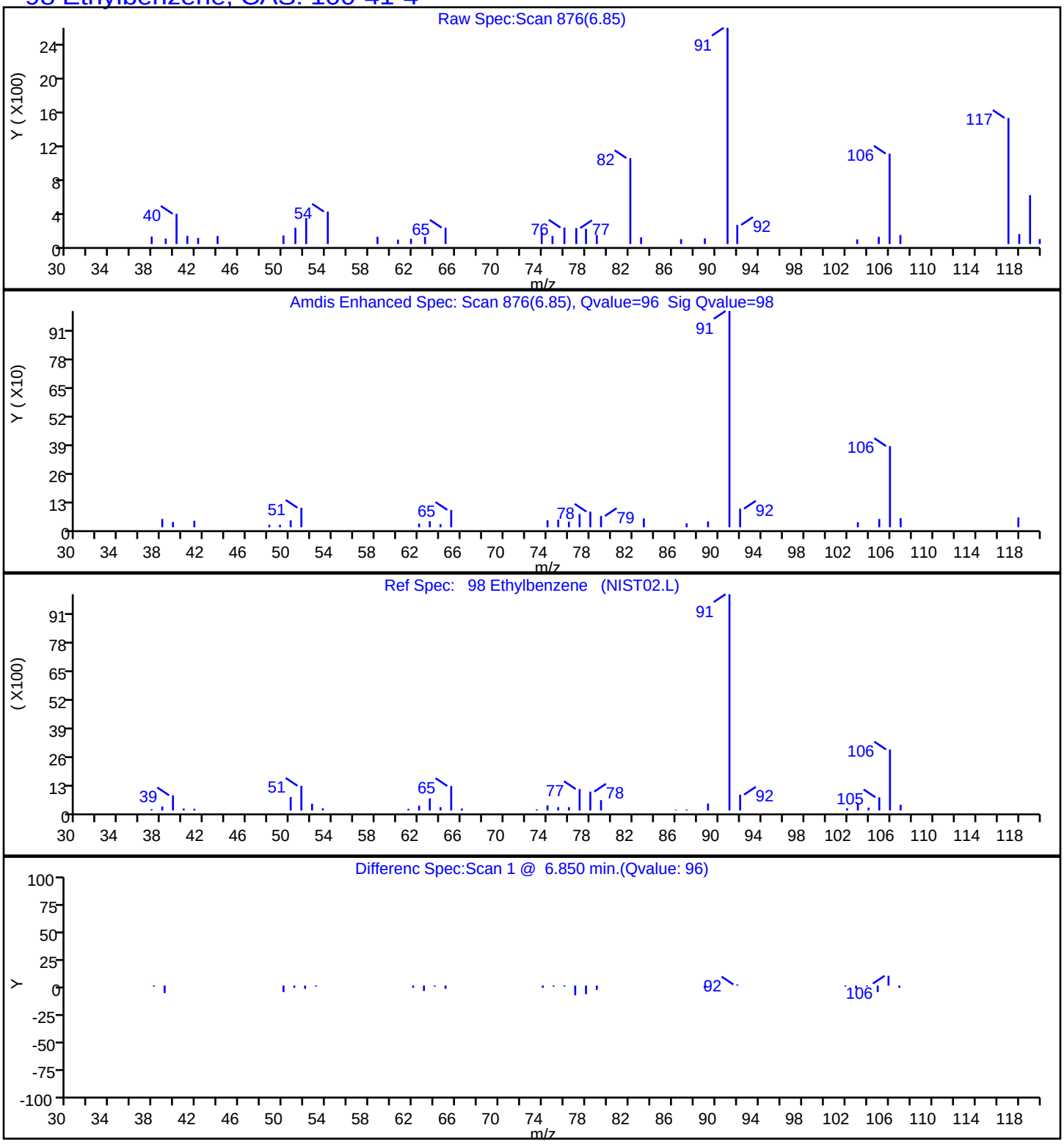
44 Cyclohexane, CAS: 110-82-7



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D				
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1		
Client ID:	MW-203				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

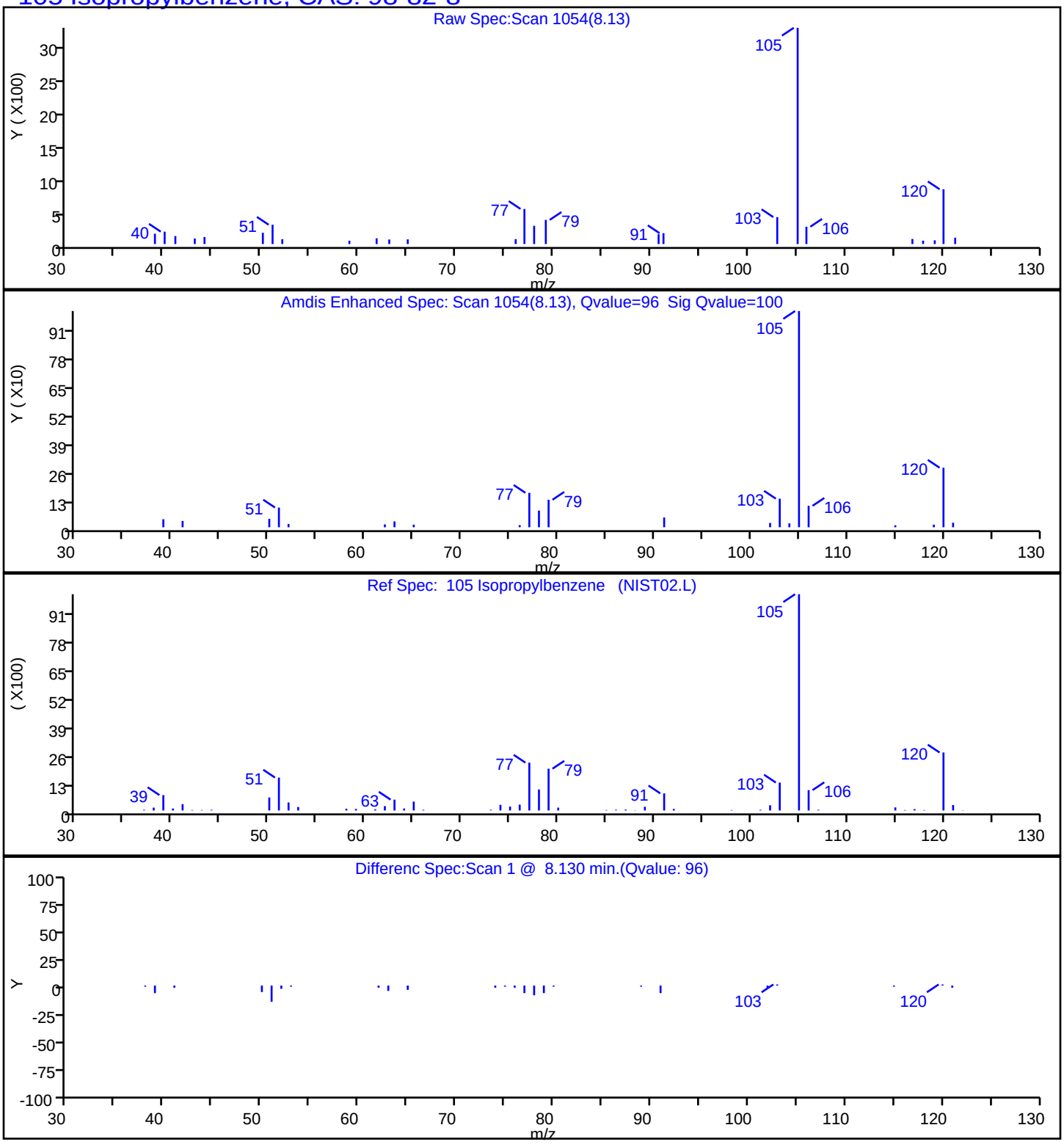
98 Ethylbenzene, CAS: 100-41-4



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

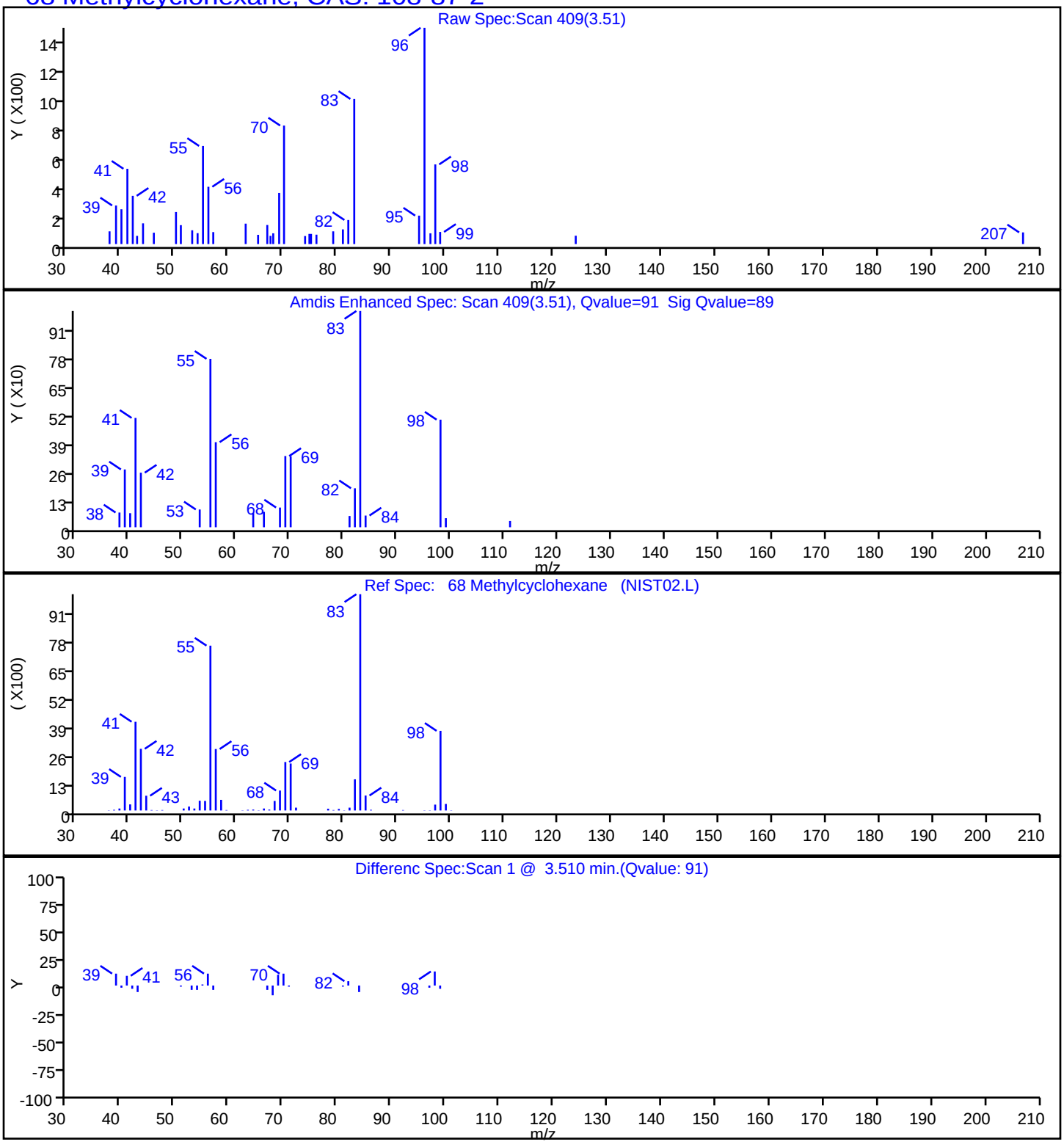
105 Isopropylbenzene, CAS: 98-82-8



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

68 Methylcyclohexane, CAS: 108-87-2



Eurofins TestAmerica, Edison

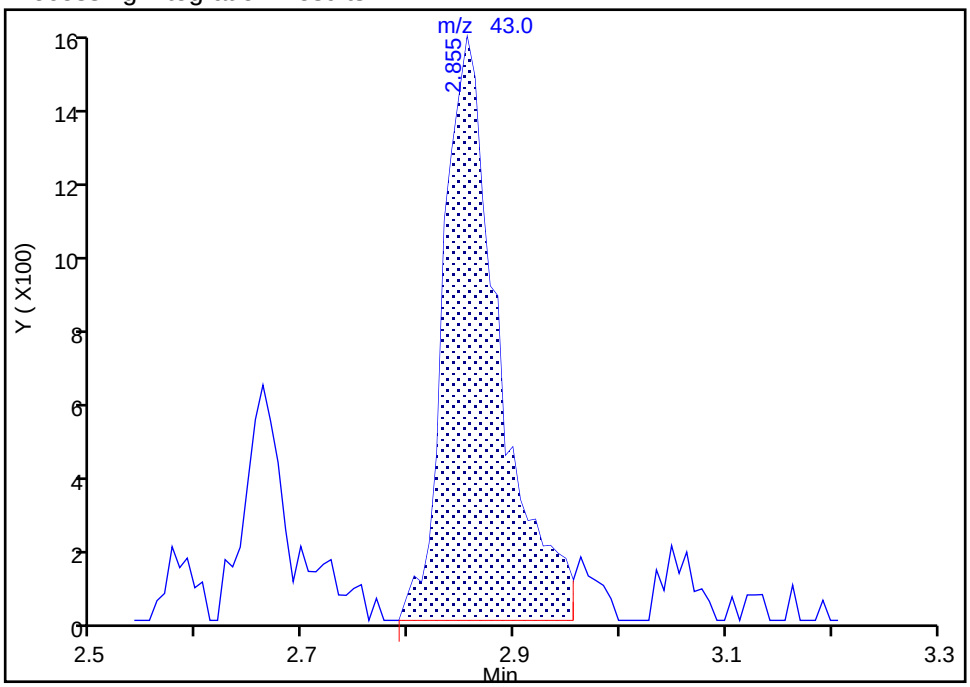
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

54 2-Butanone (MEK), CAS: 78-93-3

Signal: 2

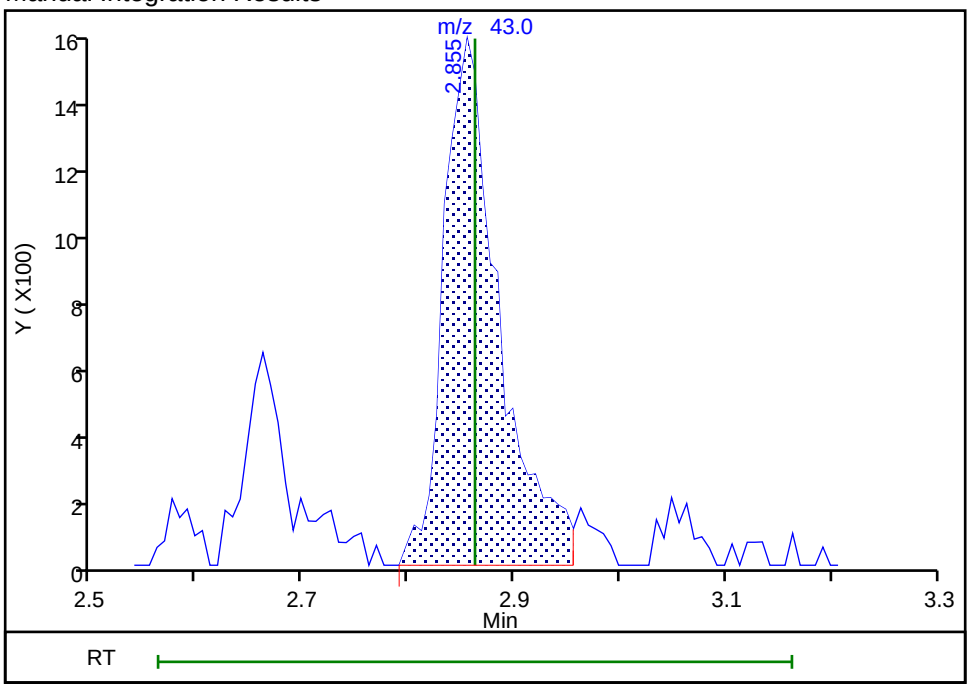
Processing Integration Results

RT: 2.86
Area: 5581
Amount: 2.216192
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 5581
Amount: 2.216192
Amount Units: ug/l



Reviewer: sgroa, 10-Sep-2020 08:06:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

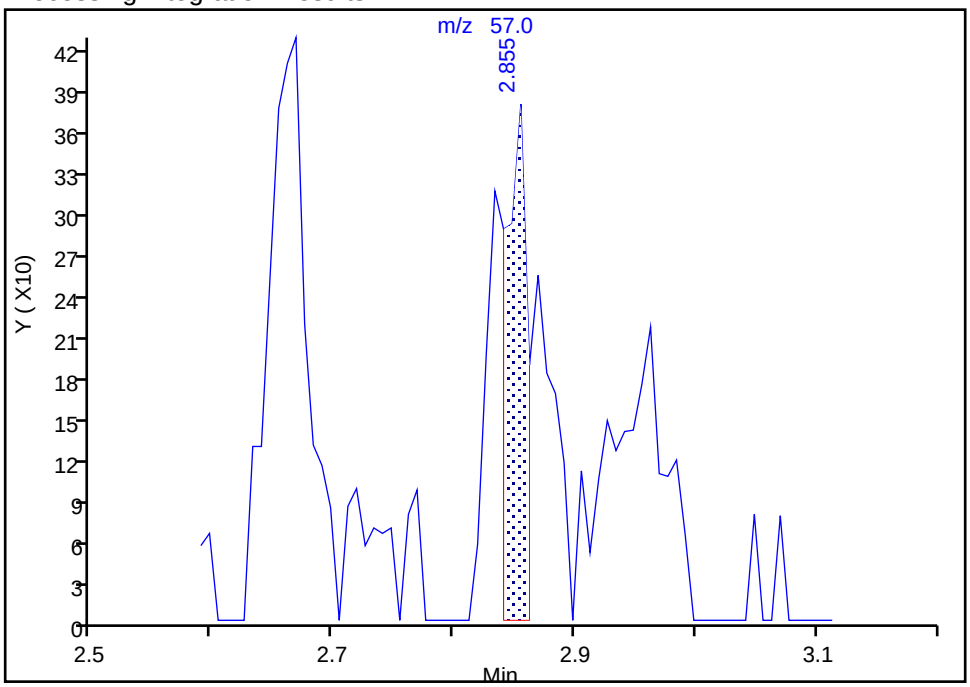
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D				
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1		
Client ID:	MW-203				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

54 2-Butanone (MEK), CAS: 78-93-3

Signal: 3

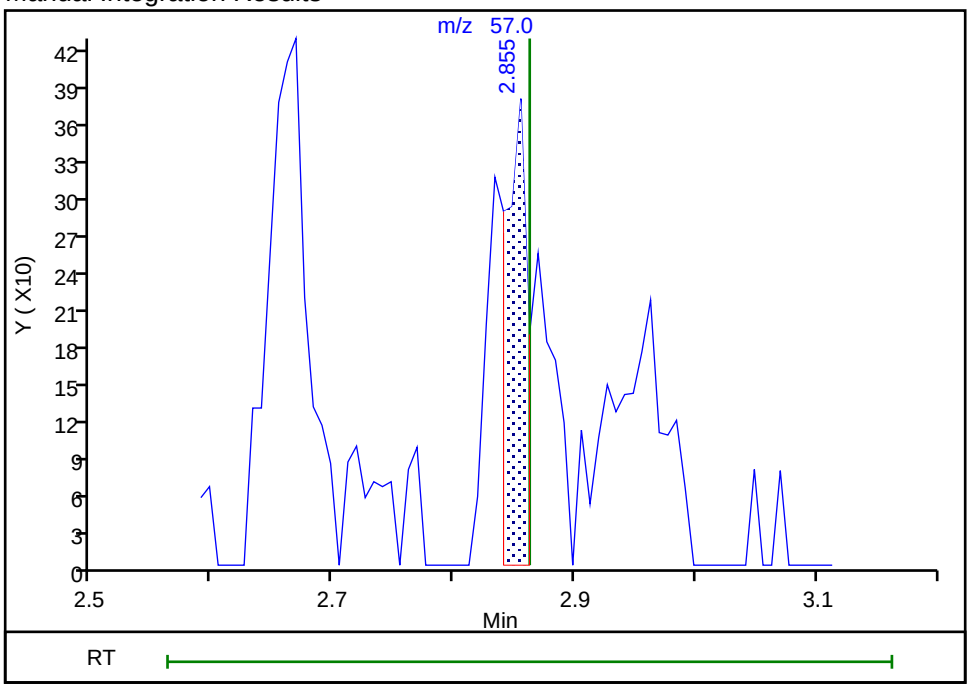
Processing Integration Results

RT: 2.86
Area: 493
Amount: 2.216192
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 493
Amount: 2.216192
Amount Units: ug/l



Reviewer: sgroa, 10-Sep-2020 08:06:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

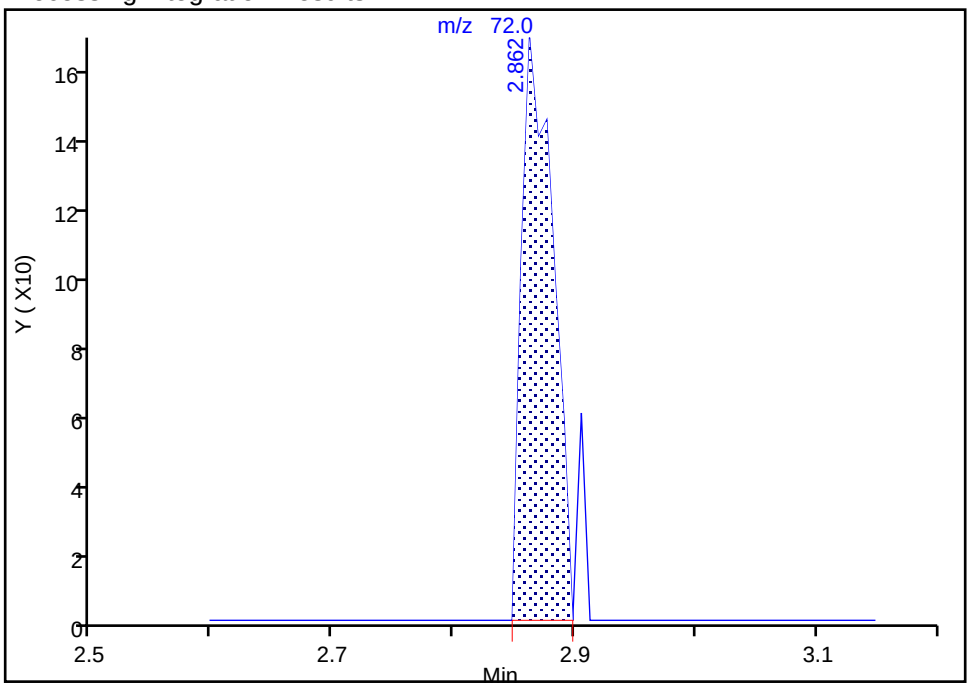
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D				
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1		
Client ID:	MW-203				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

54 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

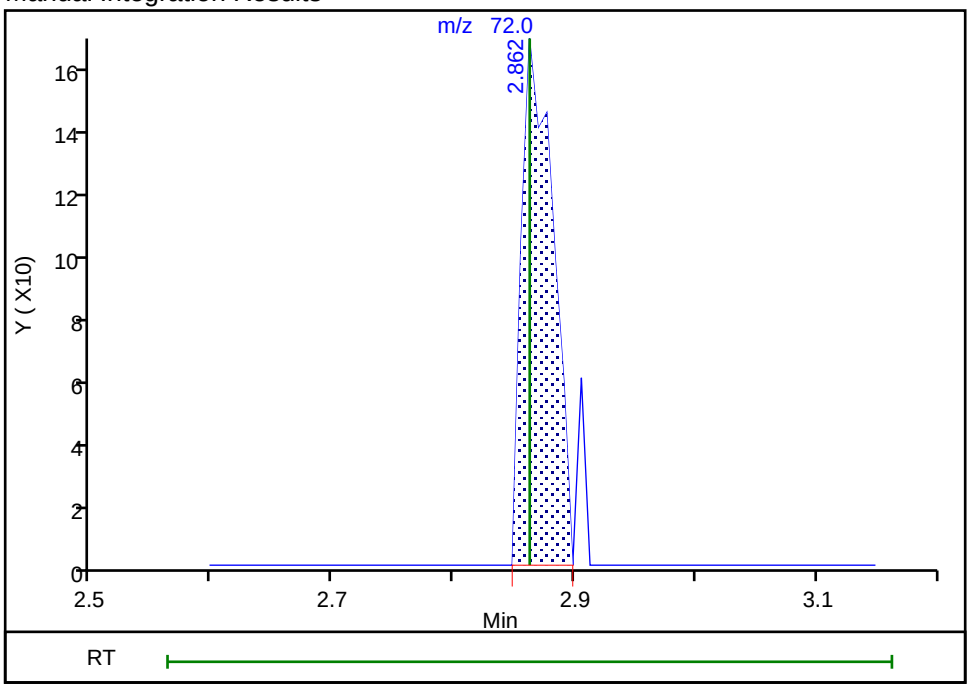
Processing Integration Results

RT: 2.86
Area: 295
Amount: 2.216192
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 295
Amount: 2.216192
Amount Units: ug/l



Reviewer: baronm, 10-Sep-2020 14:15:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

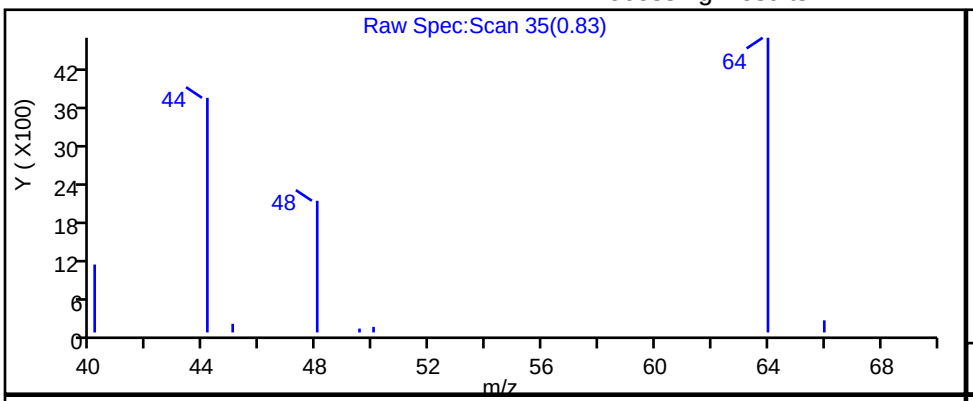
User Disabled Compound Report

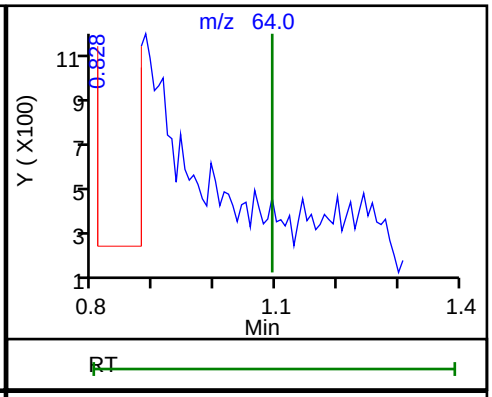
Eurofins TestAmerica, Edison

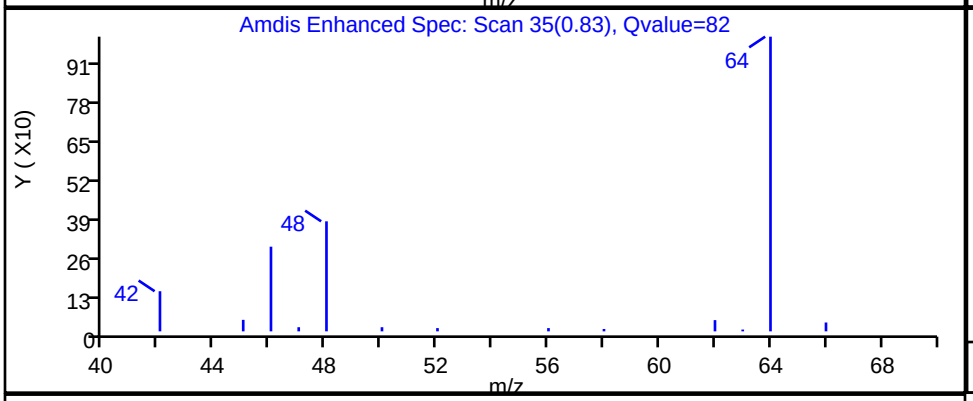
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

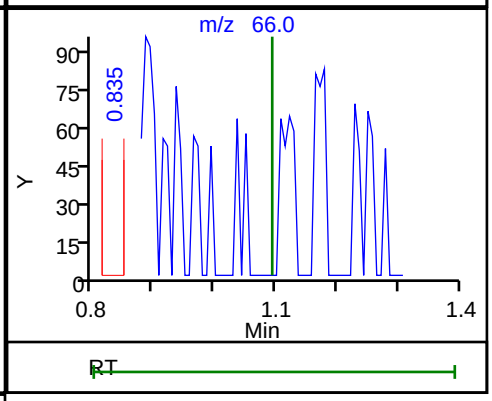
10 Chloroethane, CAS: 75-00-3

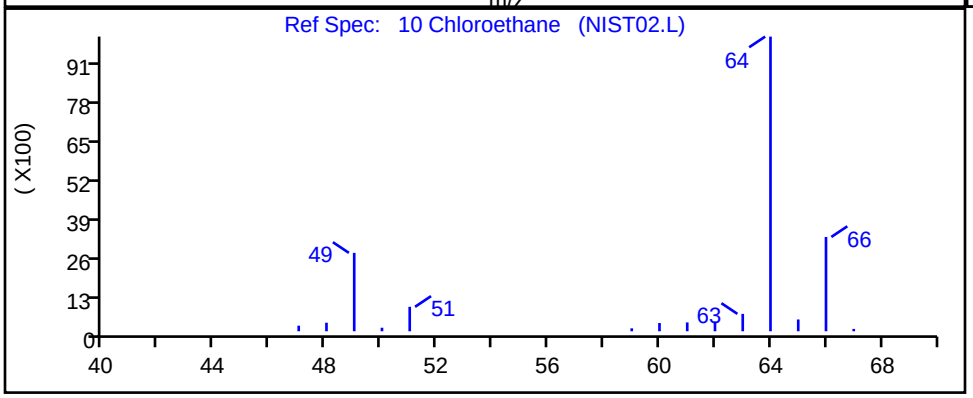
Processing Results











RT	Mass	Response	Amount
0.83	64.00	11690	6.269975
0.84	66.00	334	

Reviewer: sgroa, 10-Sep-2020 08:05:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

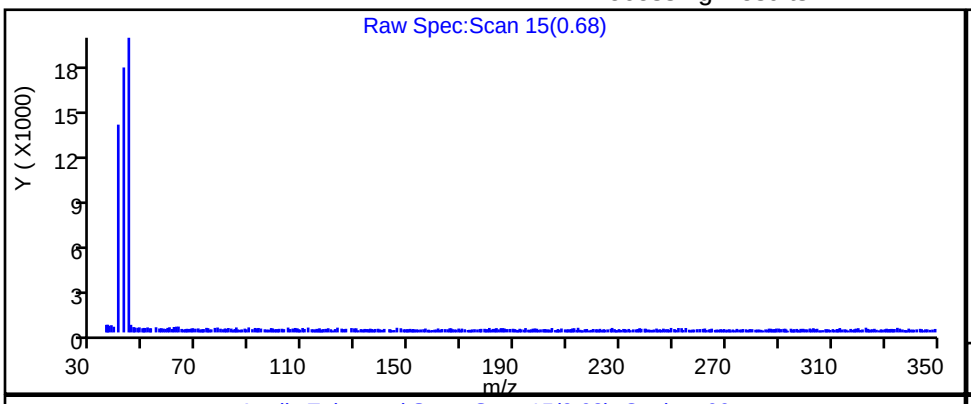
User Disabled Compound Report

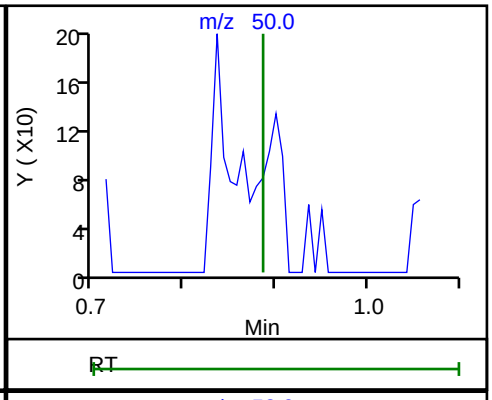
Eurofins TestAmerica, Edison

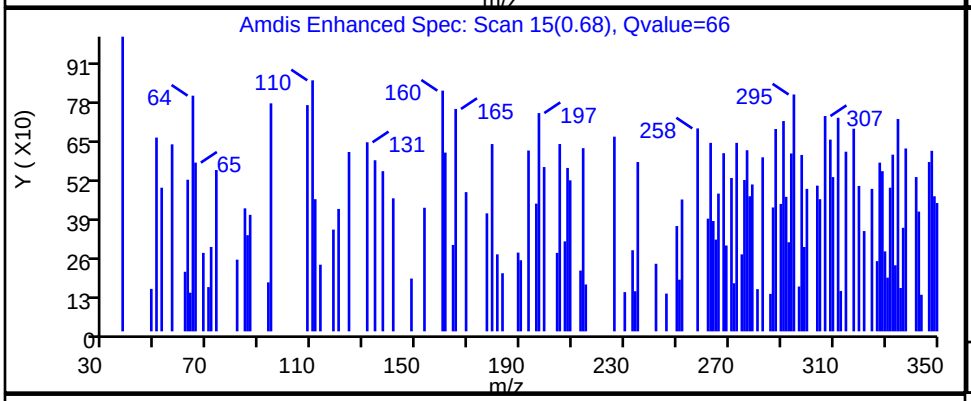
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

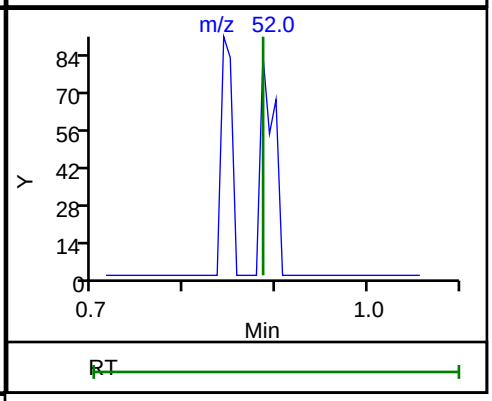
6 Chloromethane, CAS: 74-87-3

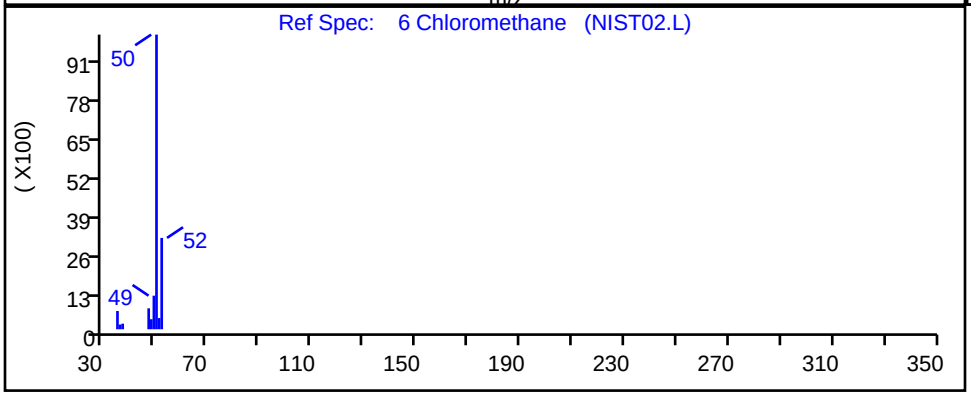
Processing Results











RT	Mass	Response	Amount
0.68	50.00	956	0.199598
0.68	52.00	566	

Reviewer: sgroa, 10-Sep-2020 08:05:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

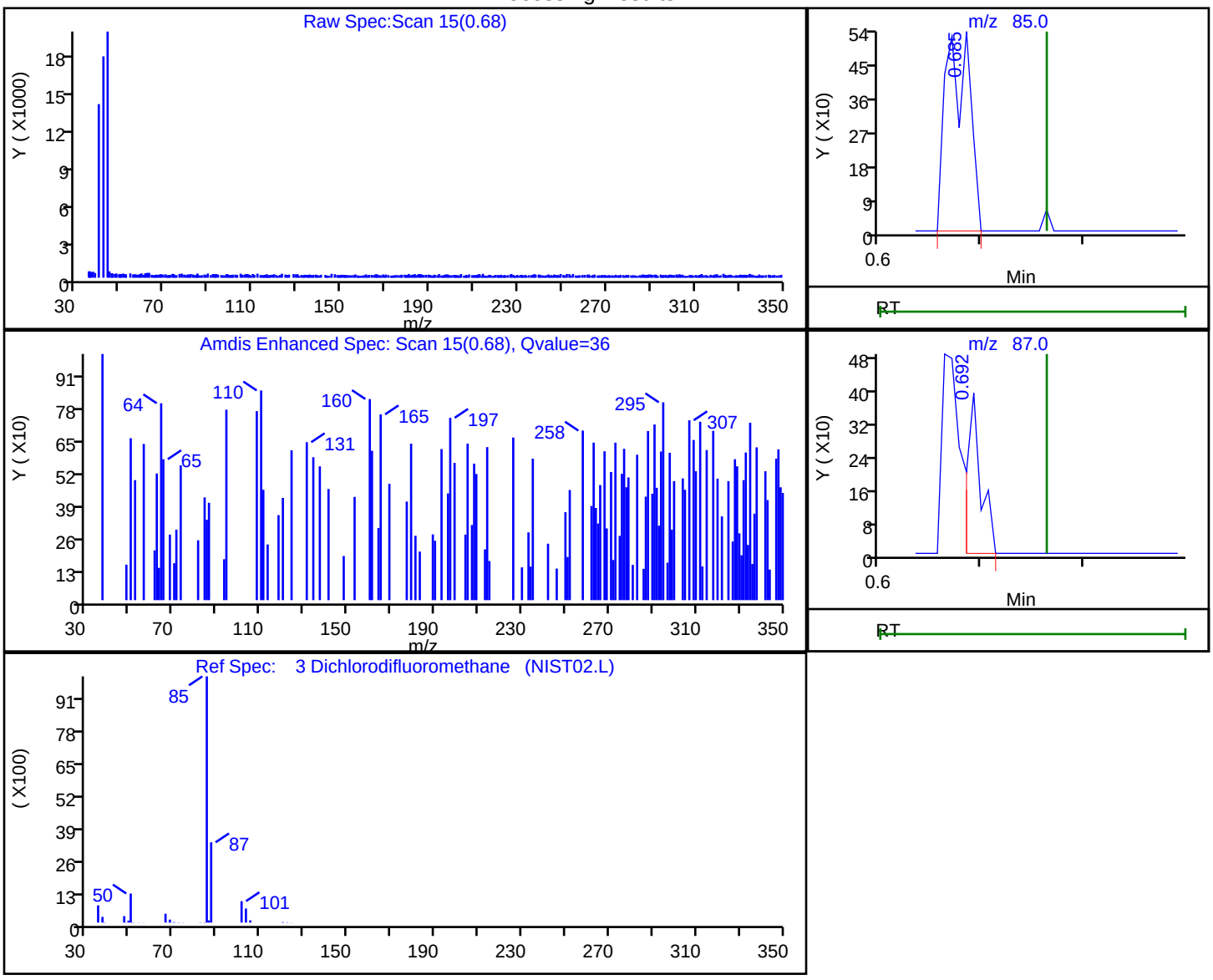
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.68	85.00	857	0.249802
0.69	87.00	367	

Reviewer: sgroa, 10-Sep-2020 08:05:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

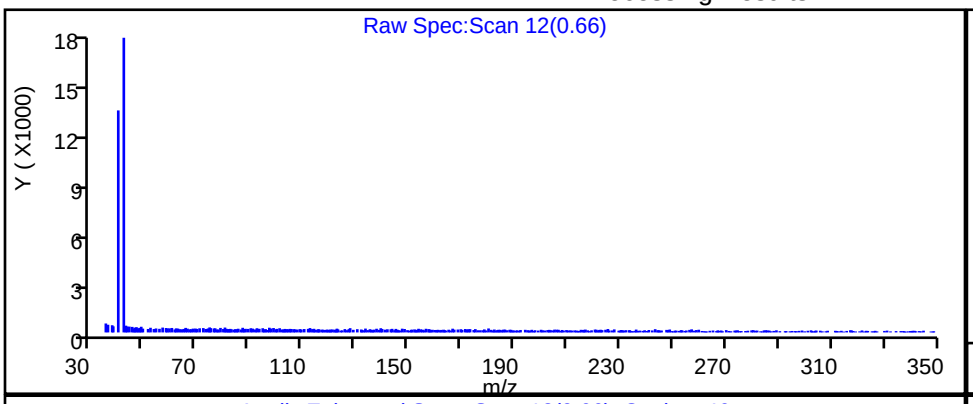
User Disabled Compound Report

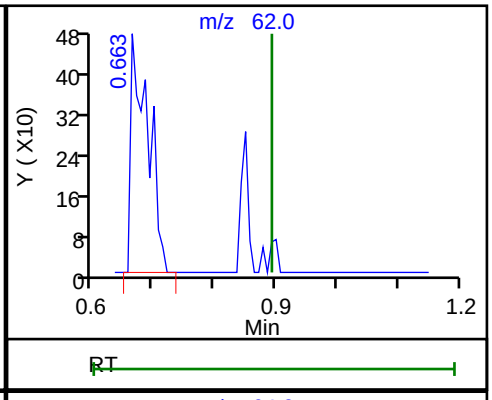
Eurofins TestAmerica, Edison

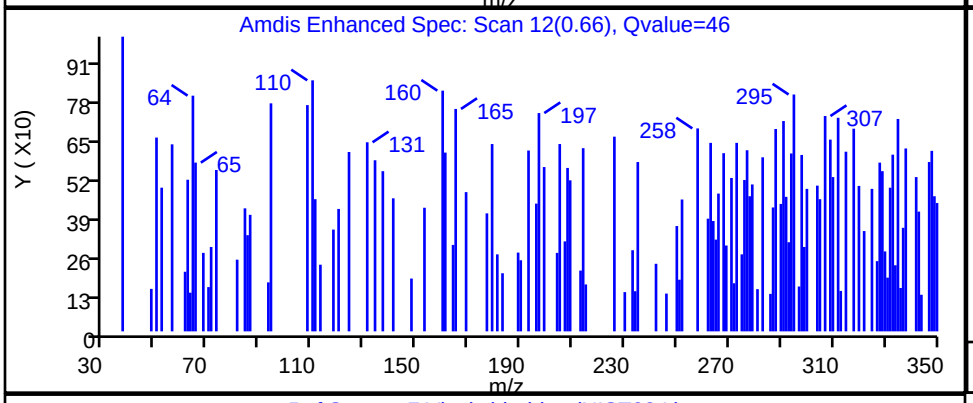
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79547.D		
Injection Date:	10-Sep-2020 00:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-1	Lab Sample ID:	460-217547-1
Client ID:	MW-203		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

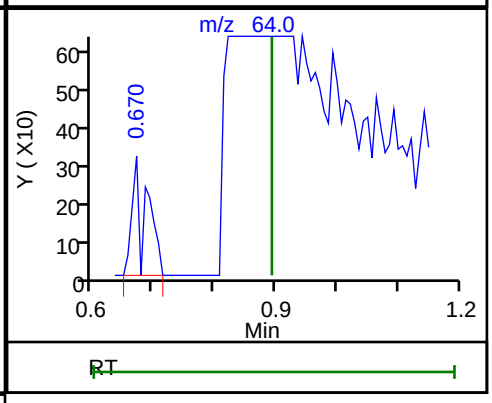
7 Vinyl chloride, CAS: 75-01-4

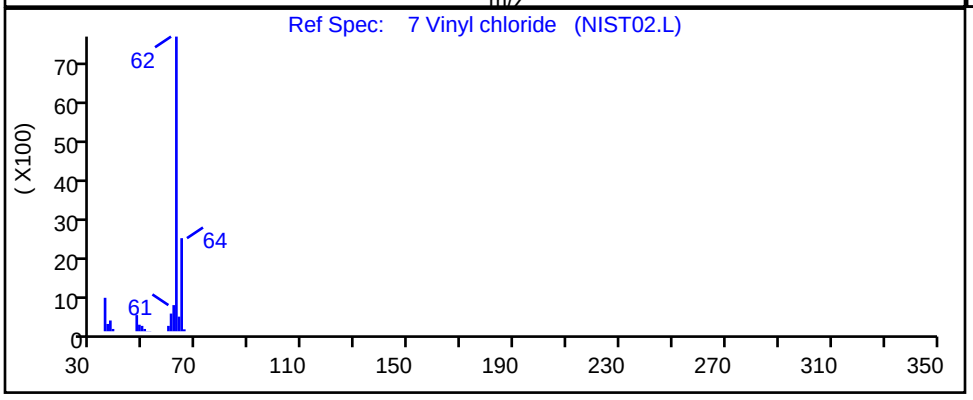
Processing Results











RT	Mass	Response	Amount
0.66	62.00	945	0.269290
0.67	64.00	524	

Reviewer: sgroa, 10-Sep-2020 08:05:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-204 Lab Sample ID: 460-217547-2

Matrix: Water Lab File ID: P79501.D

Analysis Method: 8260C Date Collected: 09/02/2020 11:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 06:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U *	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-204 Lab Sample ID: 460-217547-2

Matrix: Water Lab File ID: P79501.D

Analysis Method: 8260C Date Collected: 09/02/2020 11:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 06:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-123
460-00-4	4-Bromofluorobenzene	110		76-120
1868-53-7	Dibromofluoromethane (Surr)	106		77-124
2037-26-5	Toluene-d8 (Surr)	107		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-204 Lab Sample ID: 460-217547-2

Matrix: Water Lab File ID: P79501.D

Analysis Method: 8260C Date Collected: 09/02/2020 11:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 06:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79501.D
Lims ID: 460-217547-B-2
Client ID: MW-204
Sample Type: Client
Inject. Date: 09-Sep-2020 06:21:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-B-2
Misc. Info.: 460-0116444-023
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 19:45:59 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: xuyvo Date: 09-Sep-2020 19:50:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	92157	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	113214	53.1	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	98	106832	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	105801	49.4	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	495163	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	12461	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.883	0.000	99	485070	53.5	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	351522	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	95	155960	54.8	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	192202	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

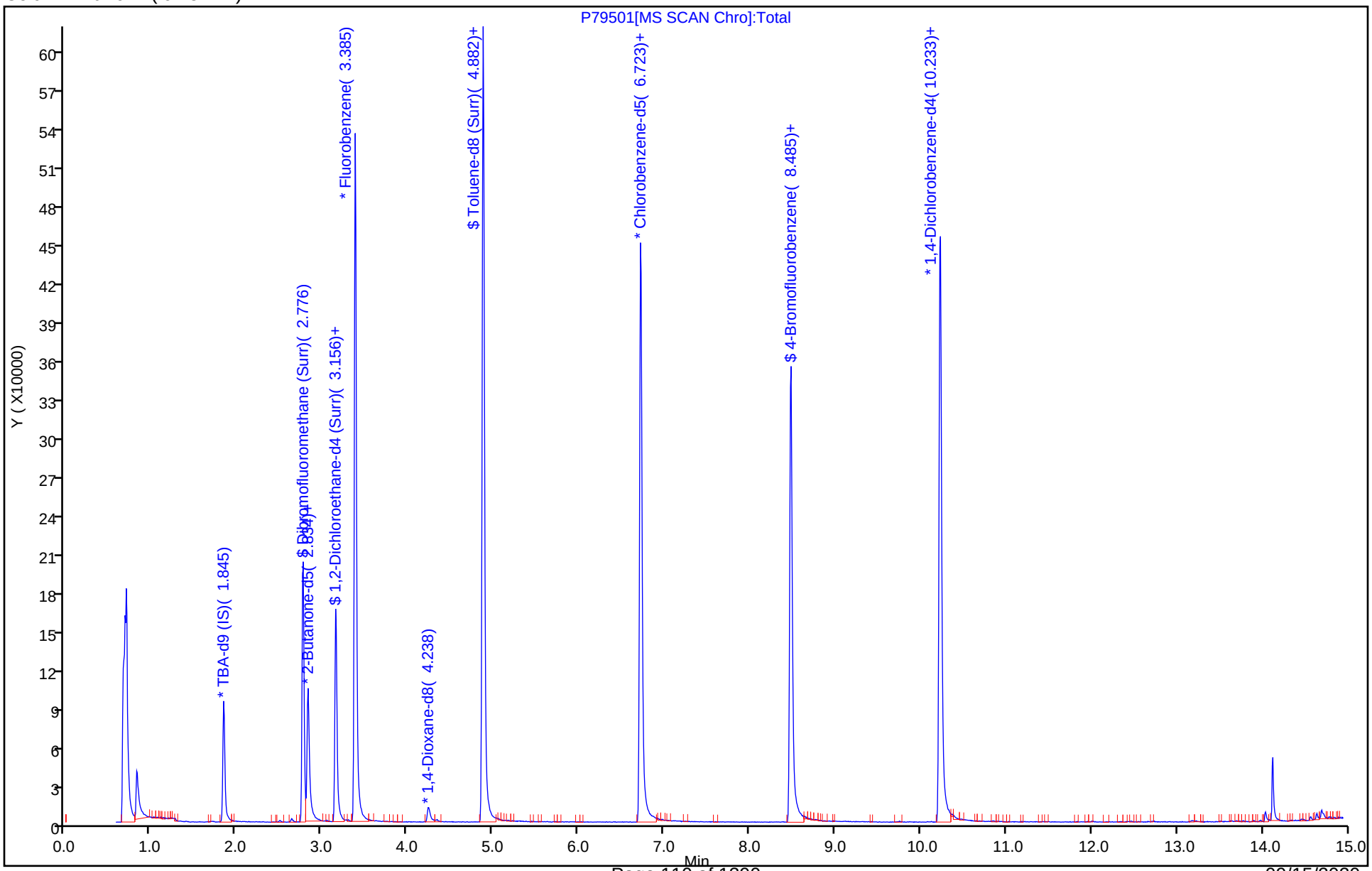
Report Date: 09-Sep-2020 19:50:01 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79501.D

Injection Date:	09-Sep-2020 06:21:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-B-2	Lab Sample ID:	460-217547-2	Worklist Smp#:	23
Client ID:	MW-204				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



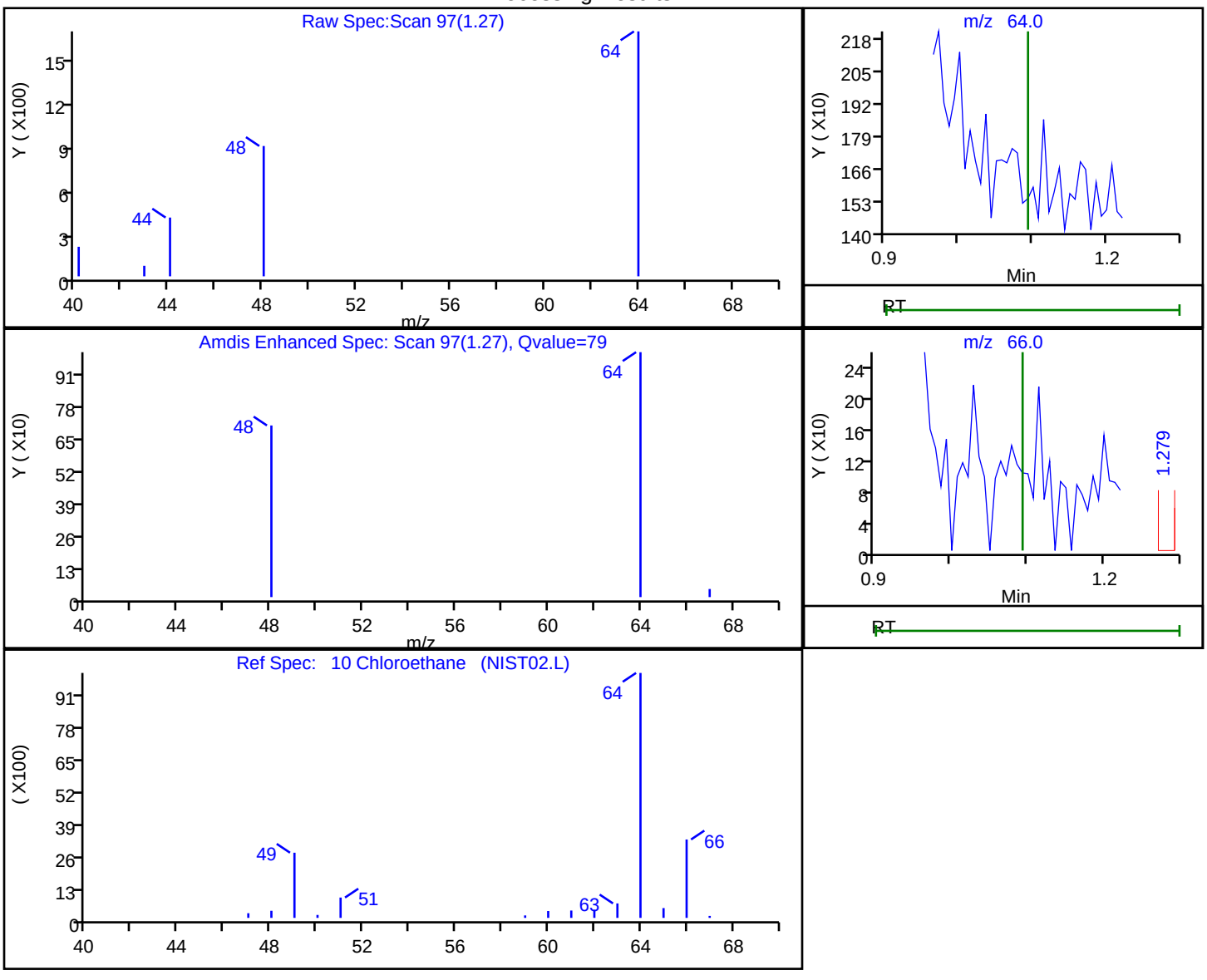
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79501.D				
Injection Date:	09-Sep-2020 06:21:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-B-2	Lab Sample ID:	460-217547-2		
Client ID:	MW-204				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.27	64.00	2407	1.326889
1.28	66.00	27	

Reviewer: moroneyc, 09-Sep-2020 07:04:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

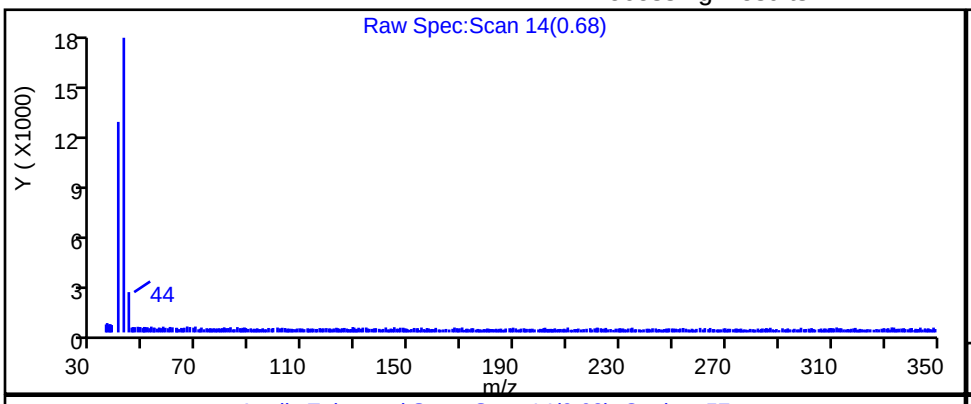
User Disabled Compound Report

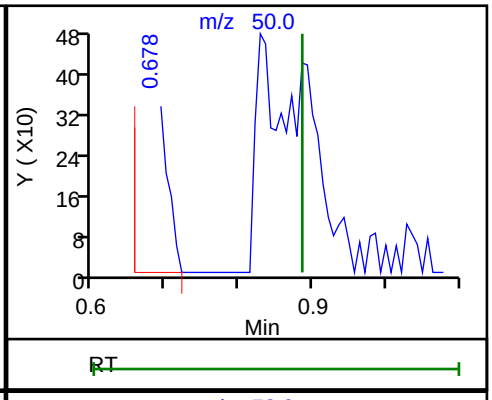
Eurofins TestAmerica, Edison

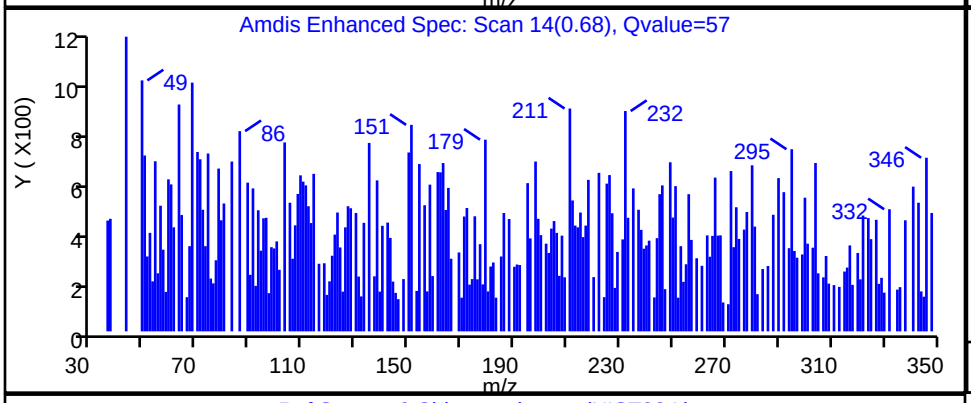
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79501.D				
Injection Date:	09-Sep-2020 06:21:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-B-2	Lab Sample ID:	460-217547-2		
Client ID:	MW-204				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

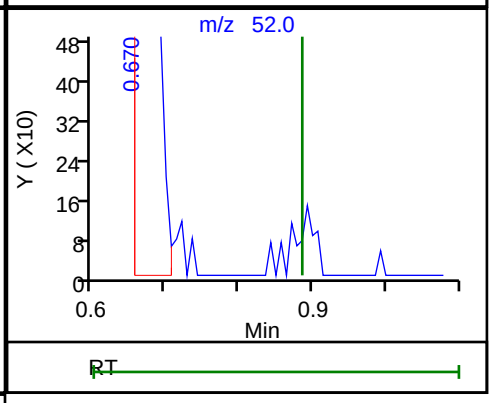
6 Chloromethane, CAS: 74-87-3

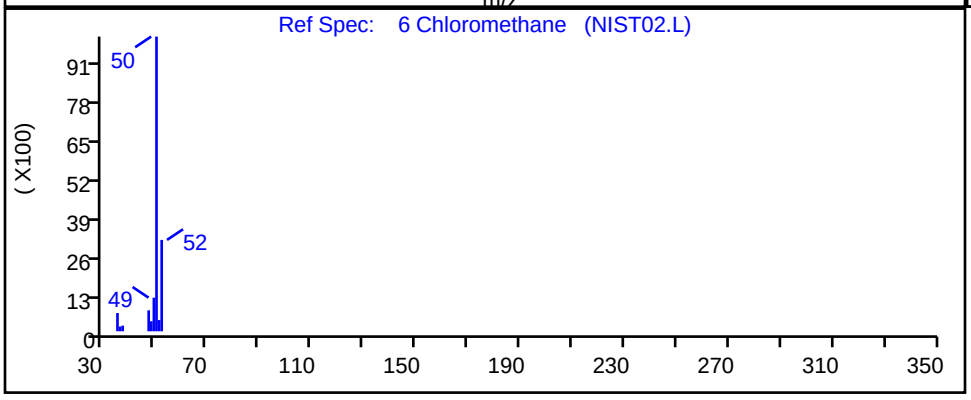
Processing Results











RT	Mass	Response	Amount
0.68	50.00	996	0.213730
0.67	52.00	1146	

Reviewer: moroneyc, 09-Sep-2020 07:04:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

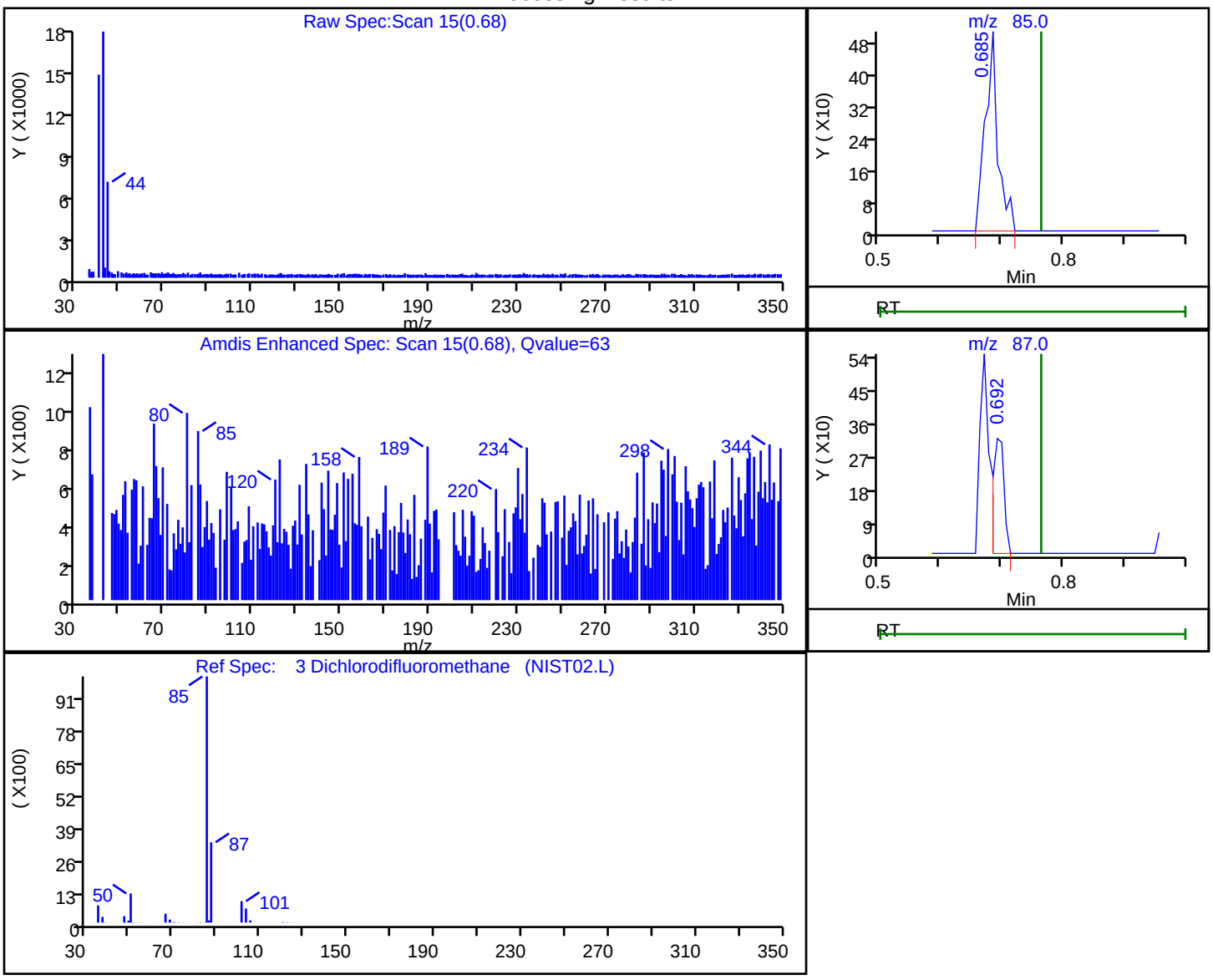
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79501.D		
Injection Date:	09-Sep-2020 06:21:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-B-2	Lab Sample ID:	460-217547-2
Client ID:	MW-204		
Operator ID:		ALS Bottle#:	22 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.68	85.00	722	0.216302
0.69	87.00	391	

Reviewer: moroneyc, 09-Sep-2020 07:04:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

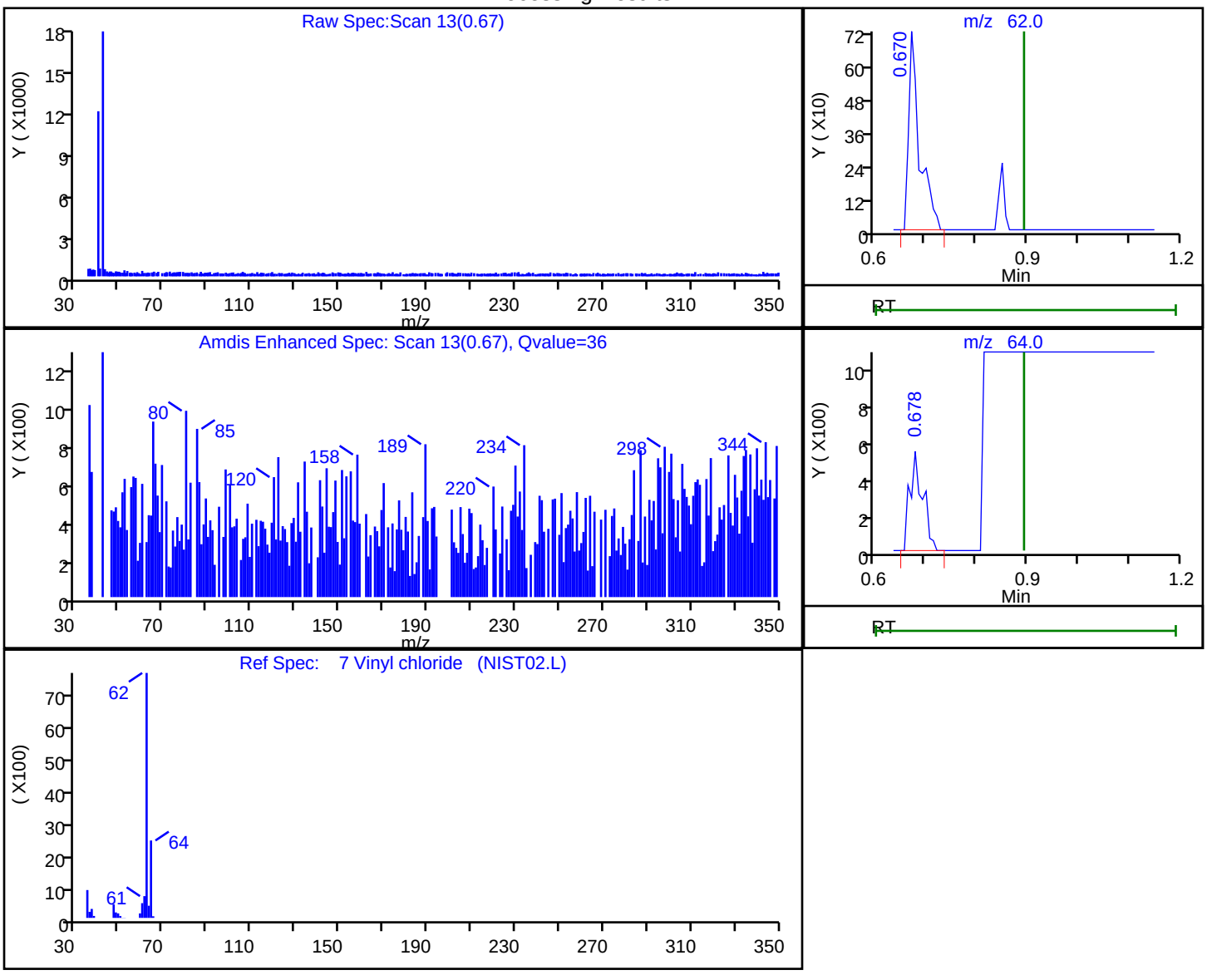
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79501.D				
Injection Date:	09-Sep-2020 06:21:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-B-2	Lab Sample ID:	460-217547-2		
Client ID:	MW-204				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.67	62.00	1079	0.316022
0.68	64.00	914	

Reviewer: moroneyc, 09-Sep-2020 07:04:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-205 Lab Sample ID: 460-217547-3

Matrix: Water Lab File ID: P79502.D

Analysis Method: 8260C Date Collected: 09/02/2020 12:40

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 06:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U *	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-205 Lab Sample ID: 460-217547-3

Matrix: Water Lab File ID: P79502.D

Analysis Method: 8260C Date Collected: 09/02/2020 12:40

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 06:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-123
460-00-4	4-Bromofluorobenzene	99		76-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-205 Lab Sample ID: 460-217547-3

Matrix: Water Lab File ID: P79502.D

Analysis Method: 8260C Date Collected: 09/02/2020 12:40

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 06:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79502.D
Lims ID: 460-217547-A-3
Client ID: MW-205
Sample Type: Client
Inject. Date: 09-Sep-2020 06:44:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-A-3
Misc. Info.: 460-0116444-024
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 19:45:59 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: moroneyc Date: 09-Sep-2020 07:05:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	98990	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.777	2.769	0.007	98	113898	49.3	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	119061	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	105091	45.3	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	536849	50.0	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	63	13109	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.883	0.000	99	488018	48.9	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	386942	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	94	154992	49.5	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	210862	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

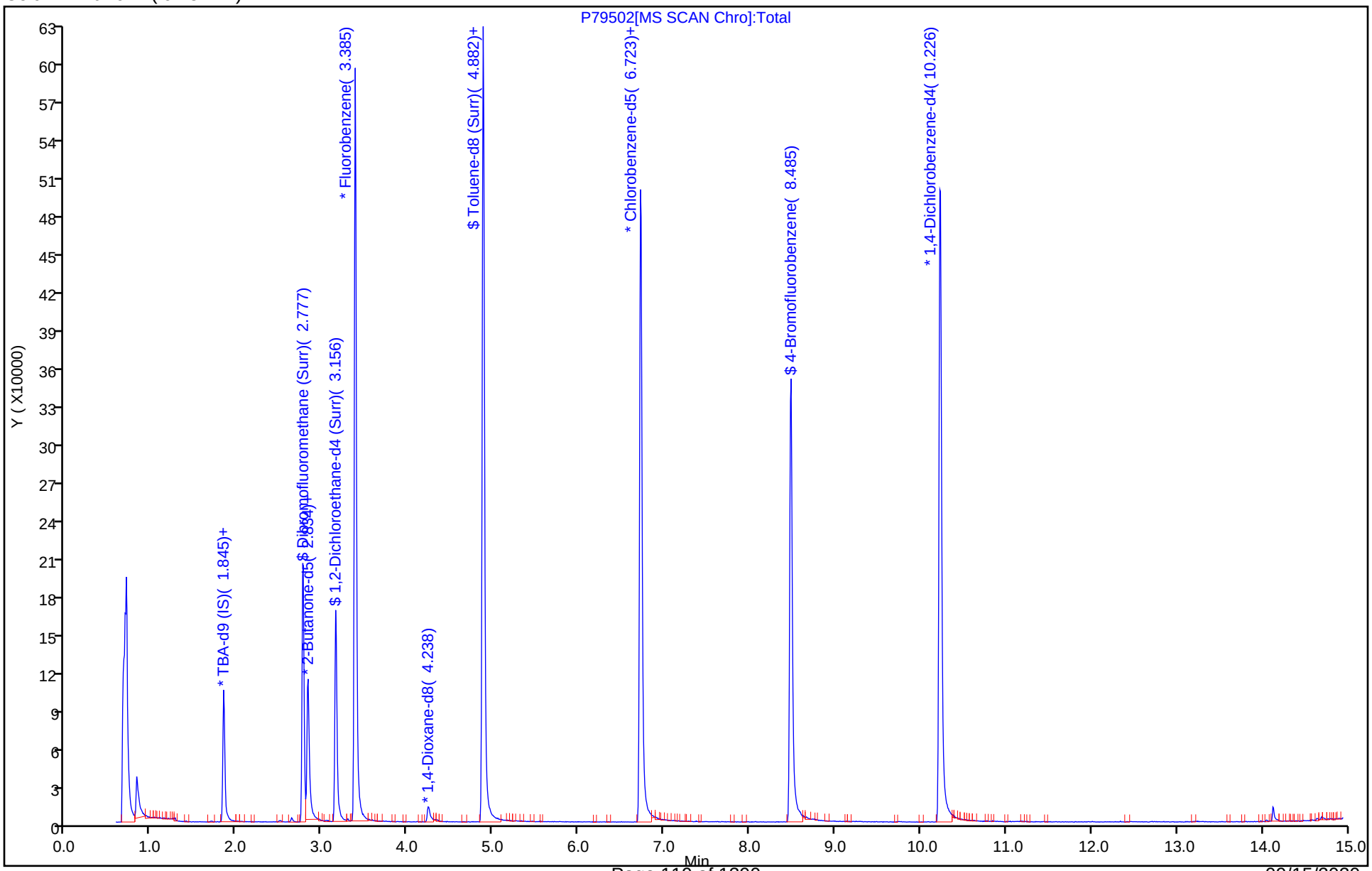
Report Date: 09-Sep-2020 19:50:13 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79502.D

Injection Date:	09-Sep-2020 06:44:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-A-3	Lab Sample ID:	460-217547-3	Worklist Smp#:	24
Client ID:	MW-205				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



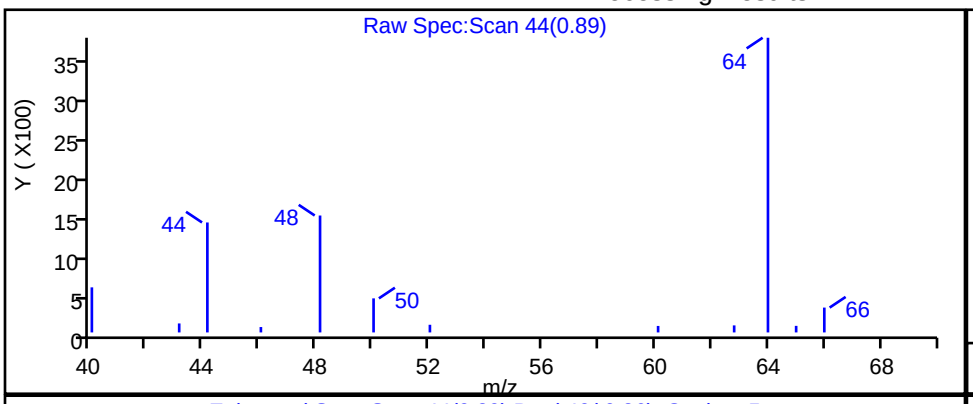
User Disabled Compound Report

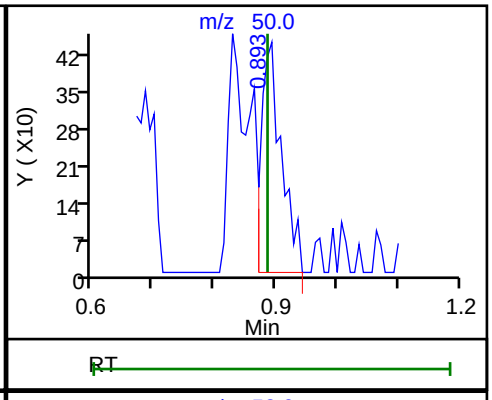
Eurofins TestAmerica, Edison

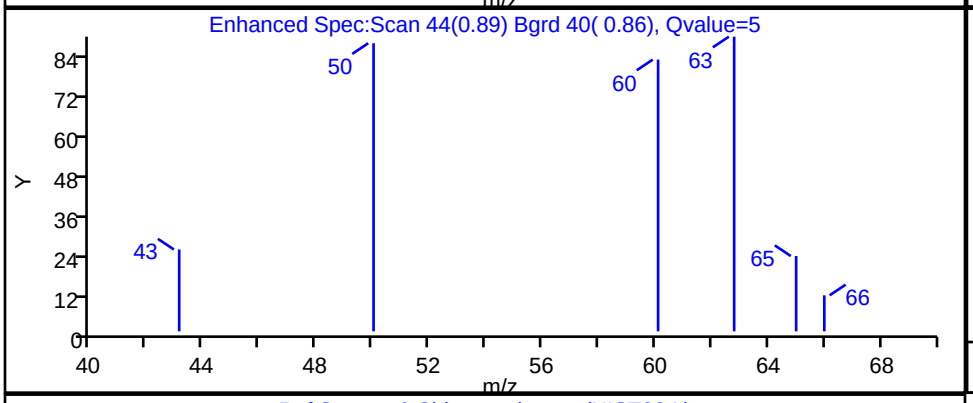
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79502.D		
Injection Date:	09-Sep-2020 06:44:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-3	Lab Sample ID:	460-217547-3
Client ID:	MW-205		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

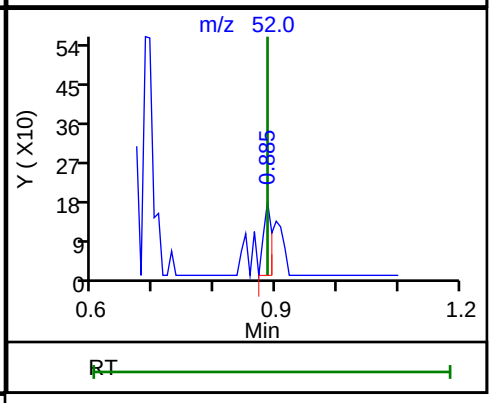
6 Chloromethane, CAS: 74-87-3

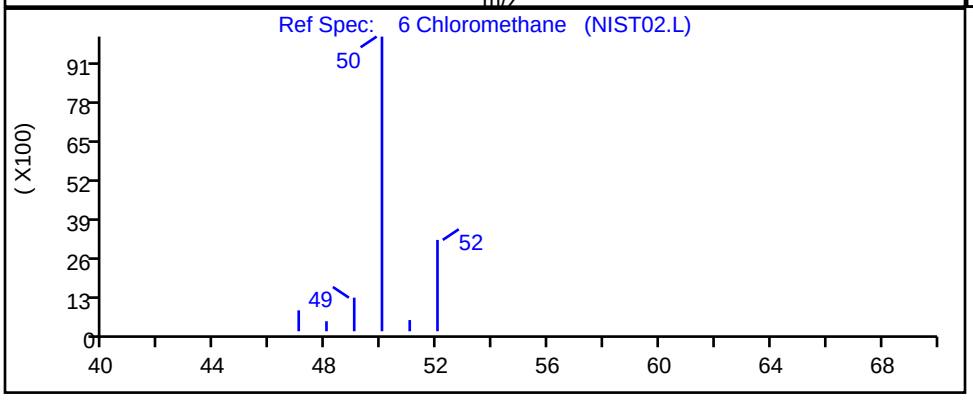
Processing Results











RT	Mass	Response	Amount
0.89	50.00	991	0.196145
0.89	52.00	154	

Reviewer: moroneyc, 09-Sep-2020 07:04:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

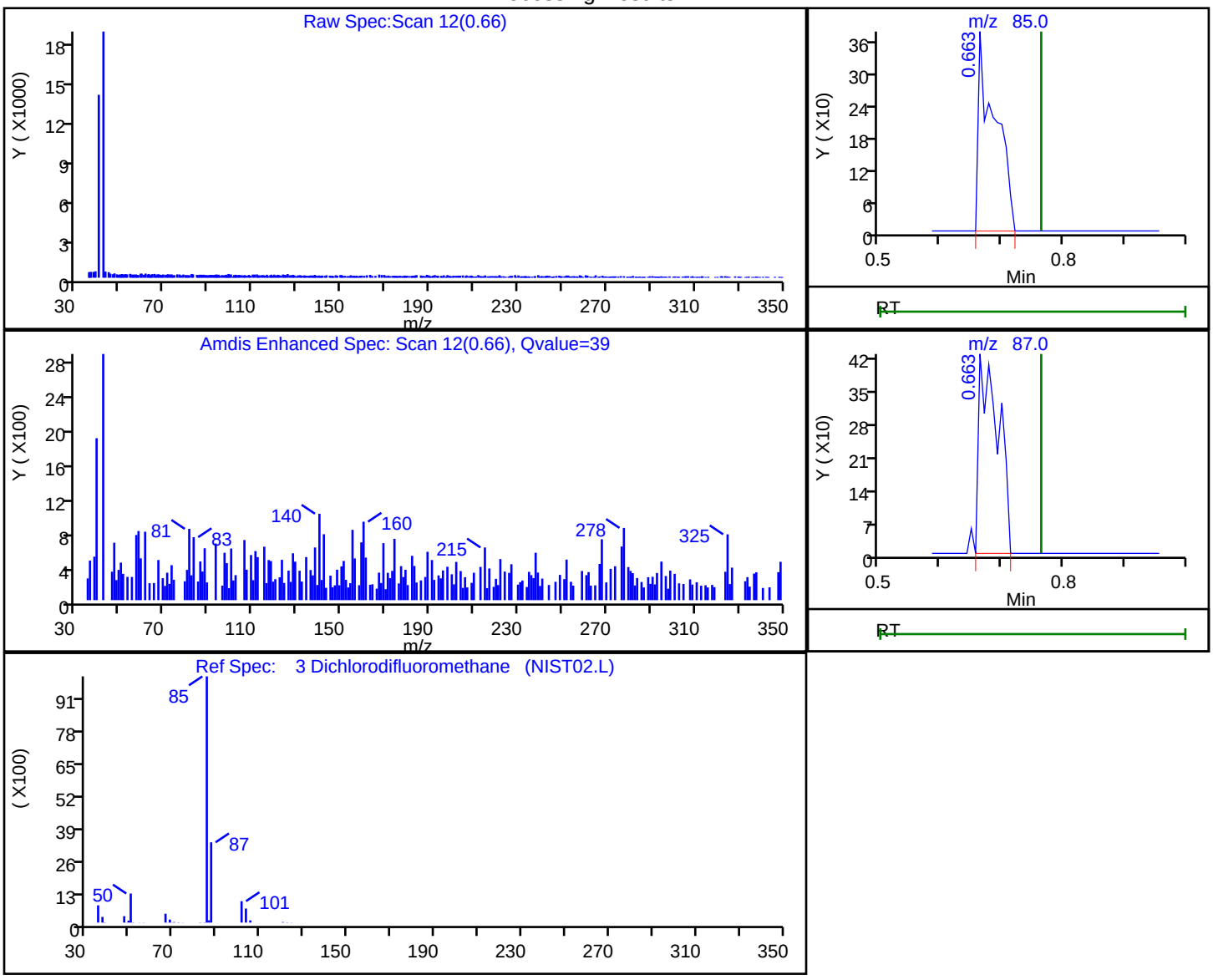
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79502.D		
Injection Date:	09-Sep-2020 06:44:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-3	Lab Sample ID:	460-217547-3
Client ID:	MW-205		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.66	85.00	723	0.199782
0.66	87.00	936	

Reviewer: moroneyc, 09-Sep-2020 07:04:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

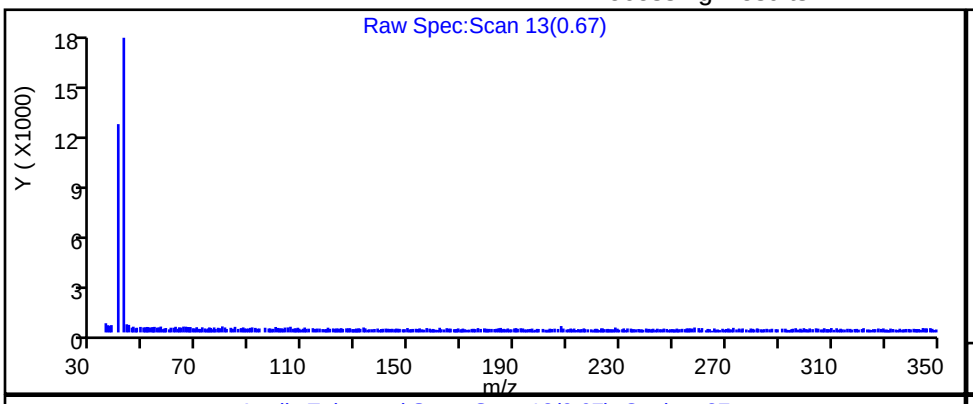
User Disabled Compound Report

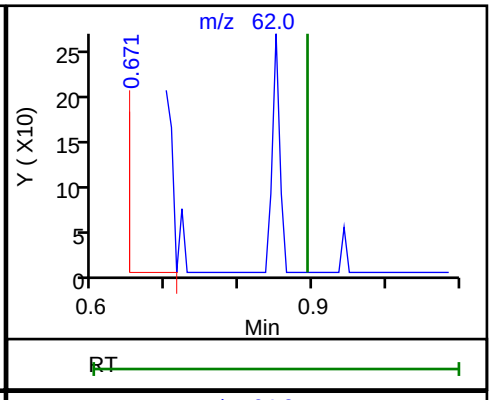
Eurofins TestAmerica, Edison

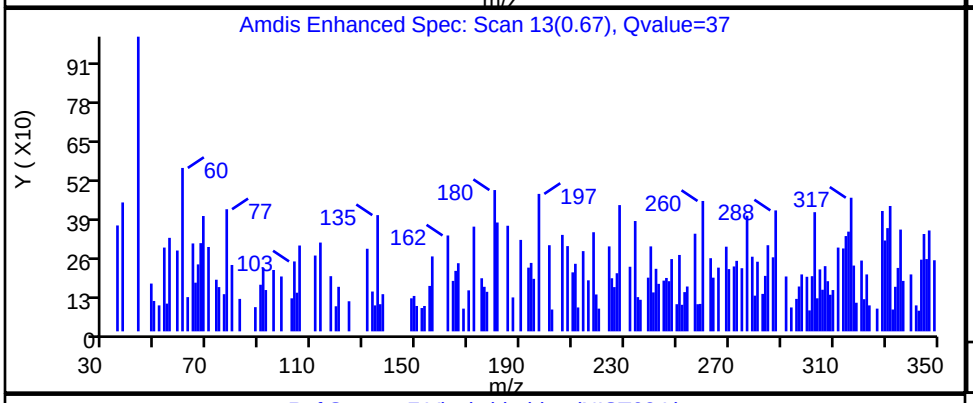
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79502.D				
Injection Date:	09-Sep-2020 06:44:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-A-3	Lab Sample ID:	460-217547-3		
Client ID:	MW-205				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

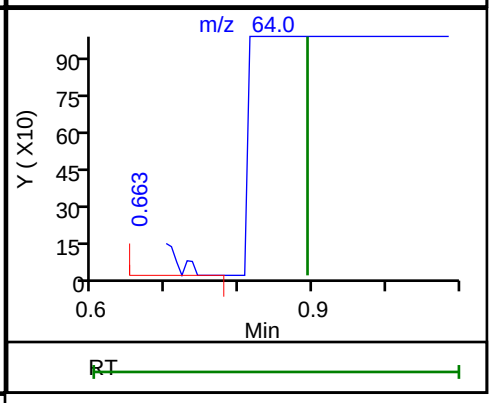
7 Vinyl chloride, CAS: 75-01-4

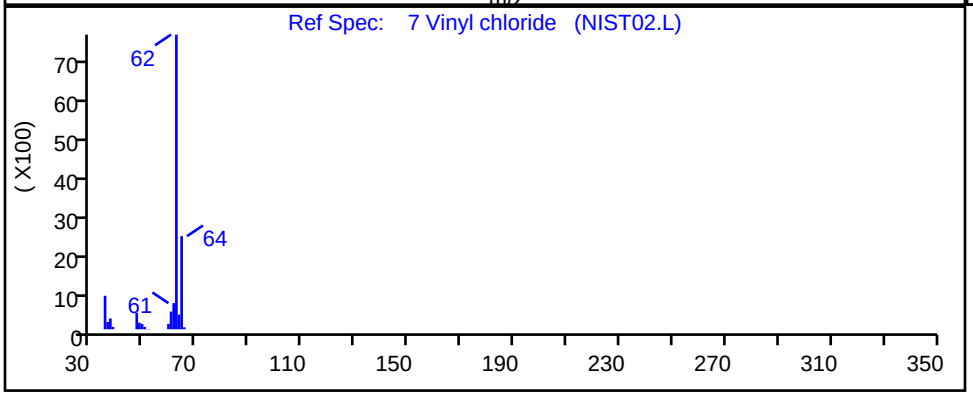
Processing Results











RT	Mass	Response	Amount
0.67	62.00	1145	0.309313
0.66	64.00	849	

Reviewer: moroneyc, 09-Sep-2020 07:04:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

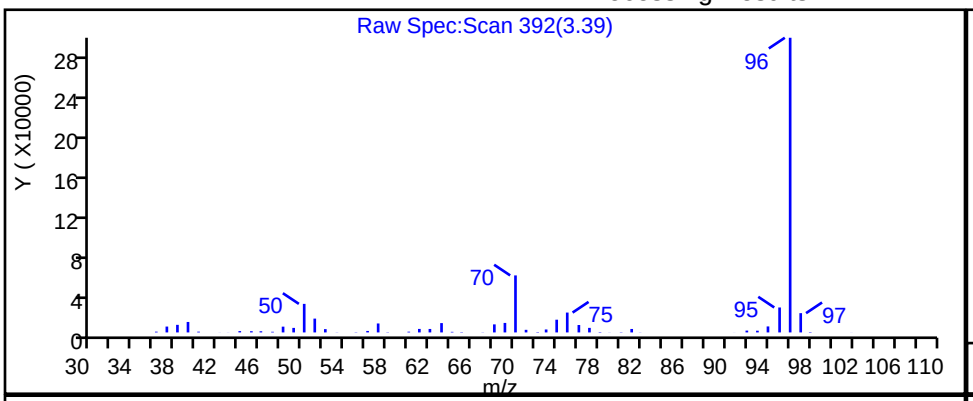
User Disabled Compound Report

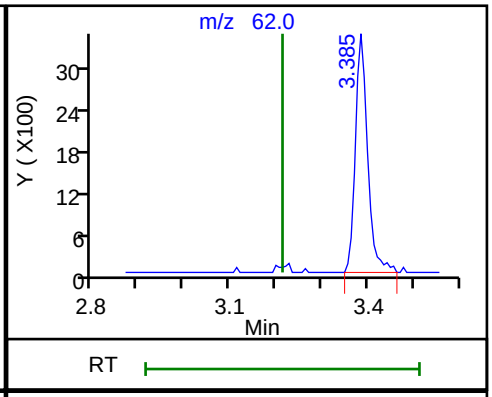
Eurofins TestAmerica, Edison

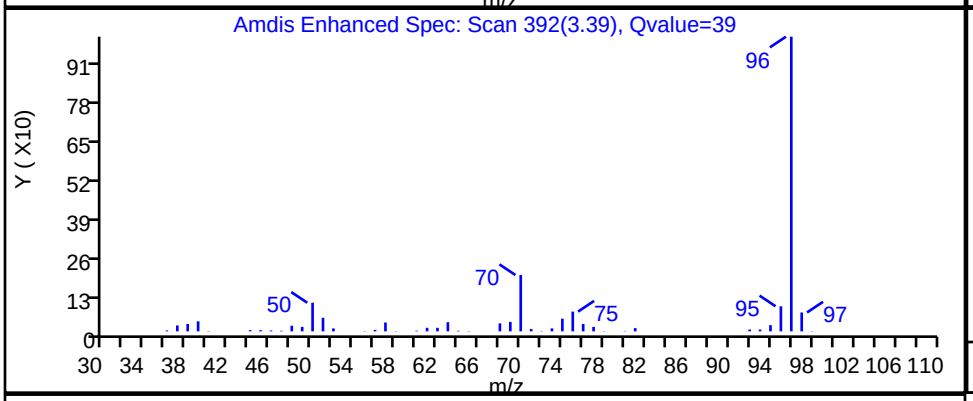
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79502.D		
Injection Date:	09-Sep-2020 06:44:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-3	Lab Sample ID:	460-217547-3
Client ID:	MW-205		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

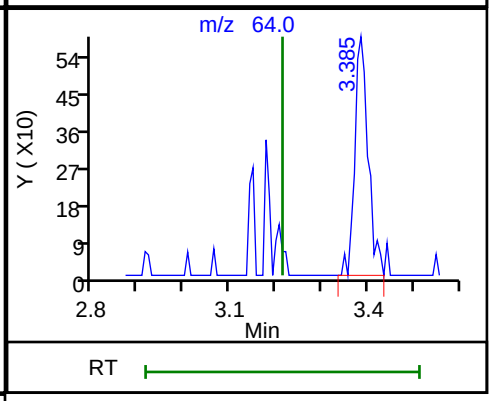
63 1,2-Dichloroethane, CAS: 107-06-2

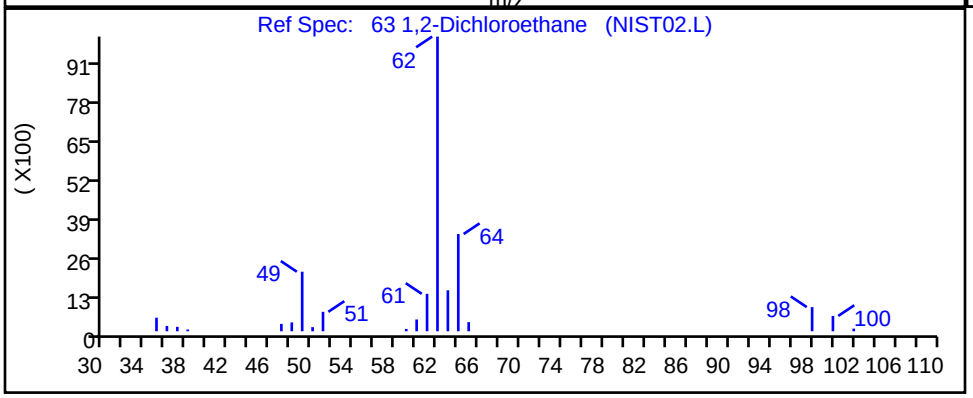
Processing Results











RT	Mass	Response	Amount
3.39	62.00	6422	2.140748
3.39	64.00	1181	

Reviewer: moroneyc, 09-Sep-2020 07:05:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-206 Lab Sample ID: 460-217547-4

Matrix: Water Lab File ID: P79548.D

Analysis Method: 8260C Date Collected: 09/02/2020 10:40

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.60	J	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-206 Lab Sample ID: 460-217547-4

Matrix: Water Lab File ID: P79548.D

Analysis Method: 8260C Date Collected: 09/02/2020 10:40

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-123
460-00-4	4-Bromofluorobenzene	104		76-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-124
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-206 Lab Sample ID: 460-217547-4

Matrix: Water Lab File ID: P79548.D

Analysis Method: 8260C Date Collected: 09/02/2020 10:40

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 01:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79548.D
Lims ID: 460-217547-A-4
Client ID: MW-206
Sample Type: Client
Inject. Date: 10-Sep-2020 01:06:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-A-4
Misc. Info.: 460-0116494-019
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: sgroa Date: 10-Sep-2020 08:09:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	96	2027	0.5963	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	99	104940	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	107960	49.7	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	98	93383	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	101154	46.4	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	504275	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	14371	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	459992	48.1	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	84	370822	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	97	155800	51.9	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	206121	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

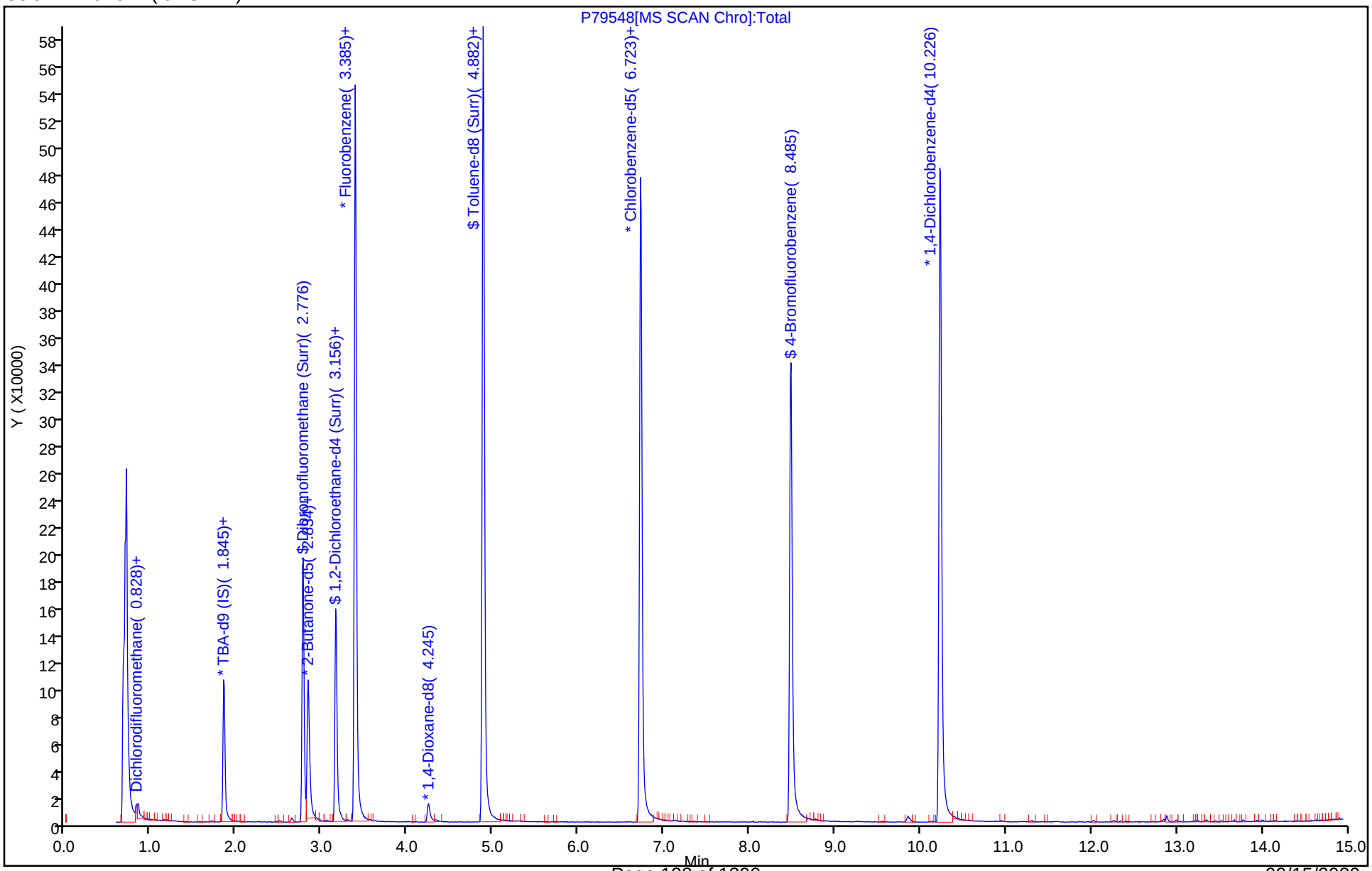
Report Date: 10-Sep-2020 14:26:22 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79548.D

Injection Date:	10-Sep-2020 01:06:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-A-4	Lab Sample ID:	460-217547-4	Worklist Smp#:	19
Client ID:	MW-206				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

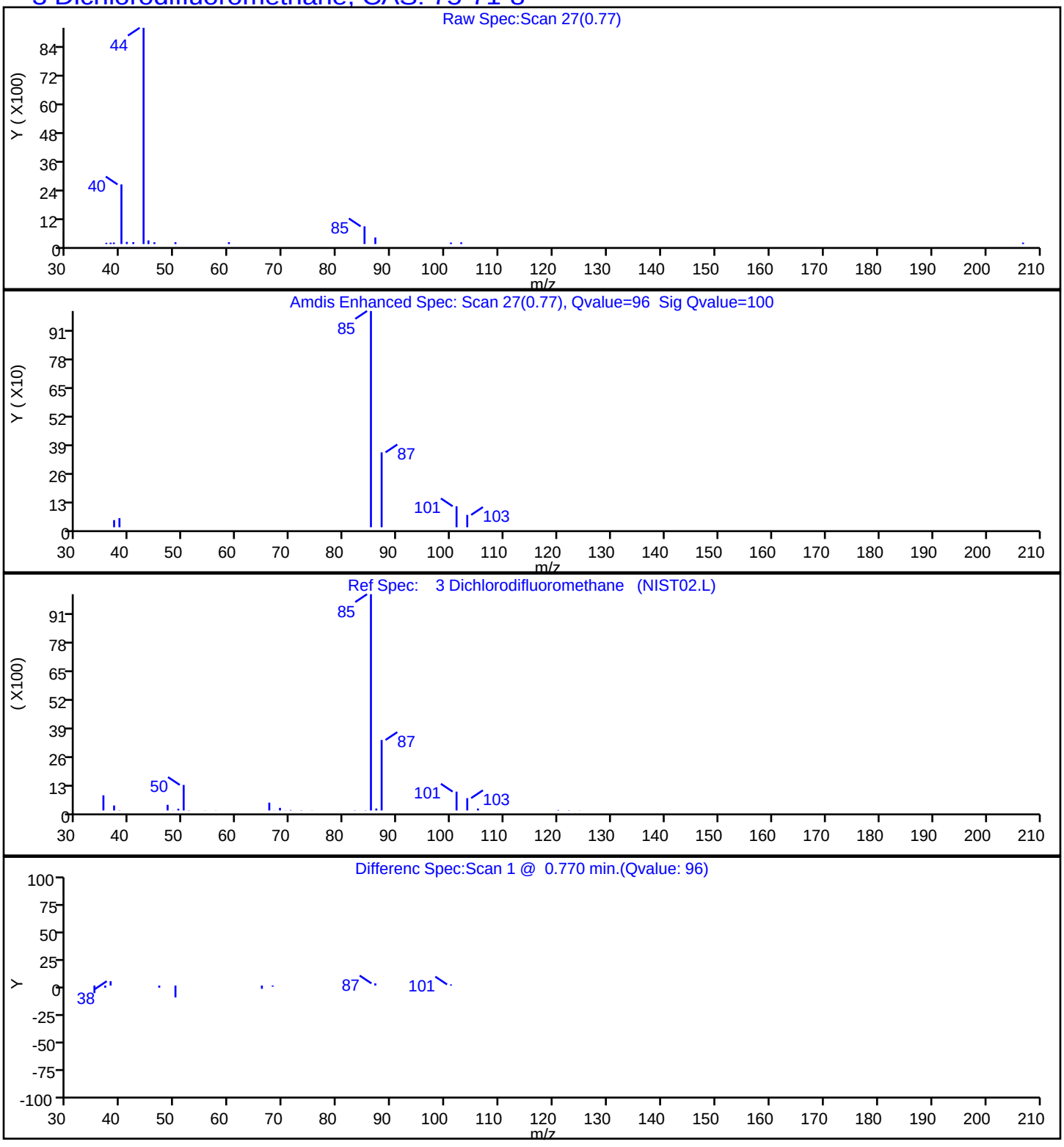
Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79548.D				
Injection Date:	10-Sep-2020 01:06:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-A-4	Lab Sample ID:	460-217547-4		
Client ID:	MW-206				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

3 Dichlorodifluoromethane, CAS: 75-71-8



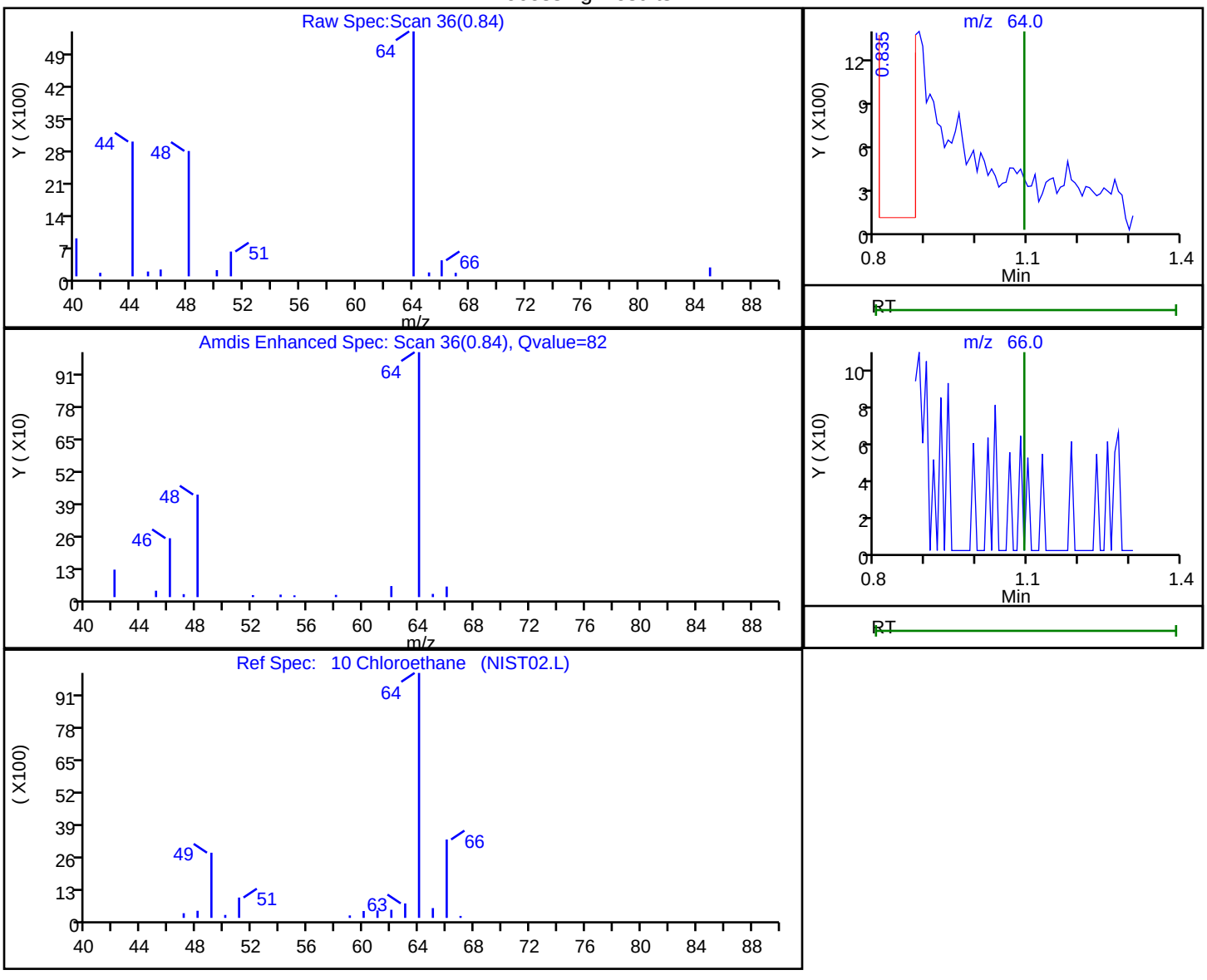
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79548.D		
Injection Date:	10-Sep-2020 01:06:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-4	Lab Sample ID:	460-217547-4
Client ID:	MW-206		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
0.84	64.00	12596	6.818235
0.84	66.00	688	

Reviewer: sgroa, 10-Sep-2020 08:08:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Edison

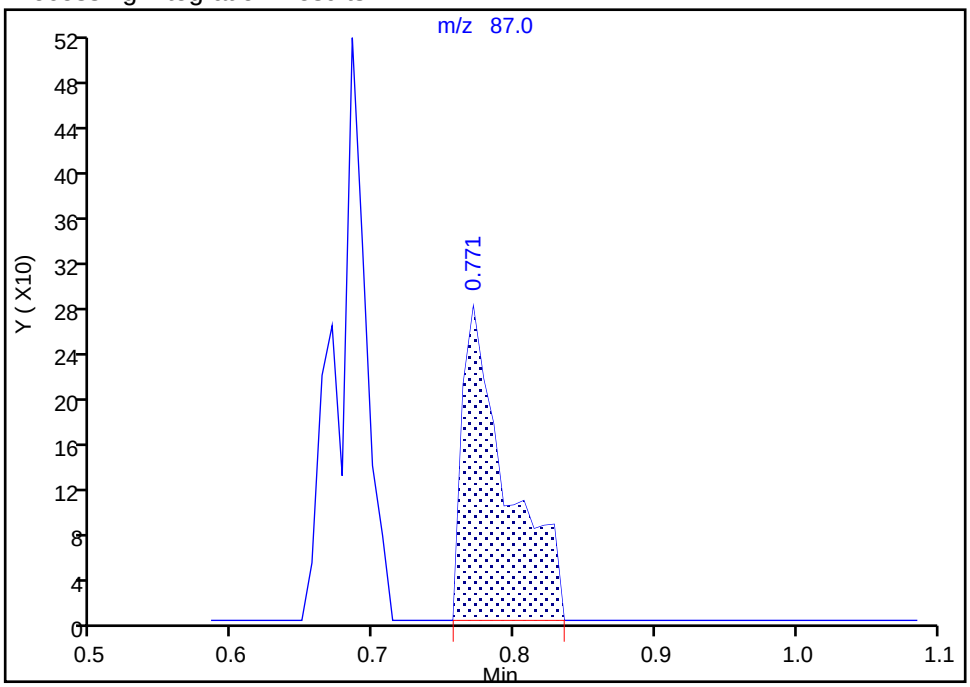
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79548.D		
Injection Date:	10-Sep-2020 01:06:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-4	Lab Sample ID:	460-217547-4
Client ID:	MW-206		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 2

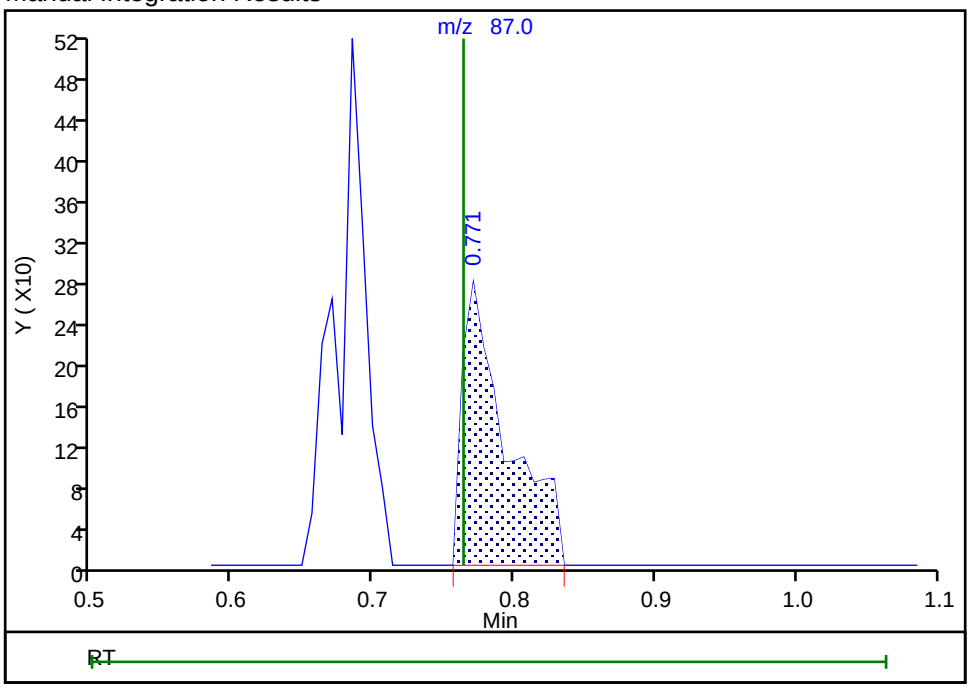
Processing Integration Results

RT: 0.77
Area: 616
Amount: 0.596290
Amount Units: ug/l



Manual Integration Results

RT: 0.77
Area: 616
Amount: 0.596290
Amount Units: ug/l



Reviewer: sgroa, 10-Sep-2020 08:08:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

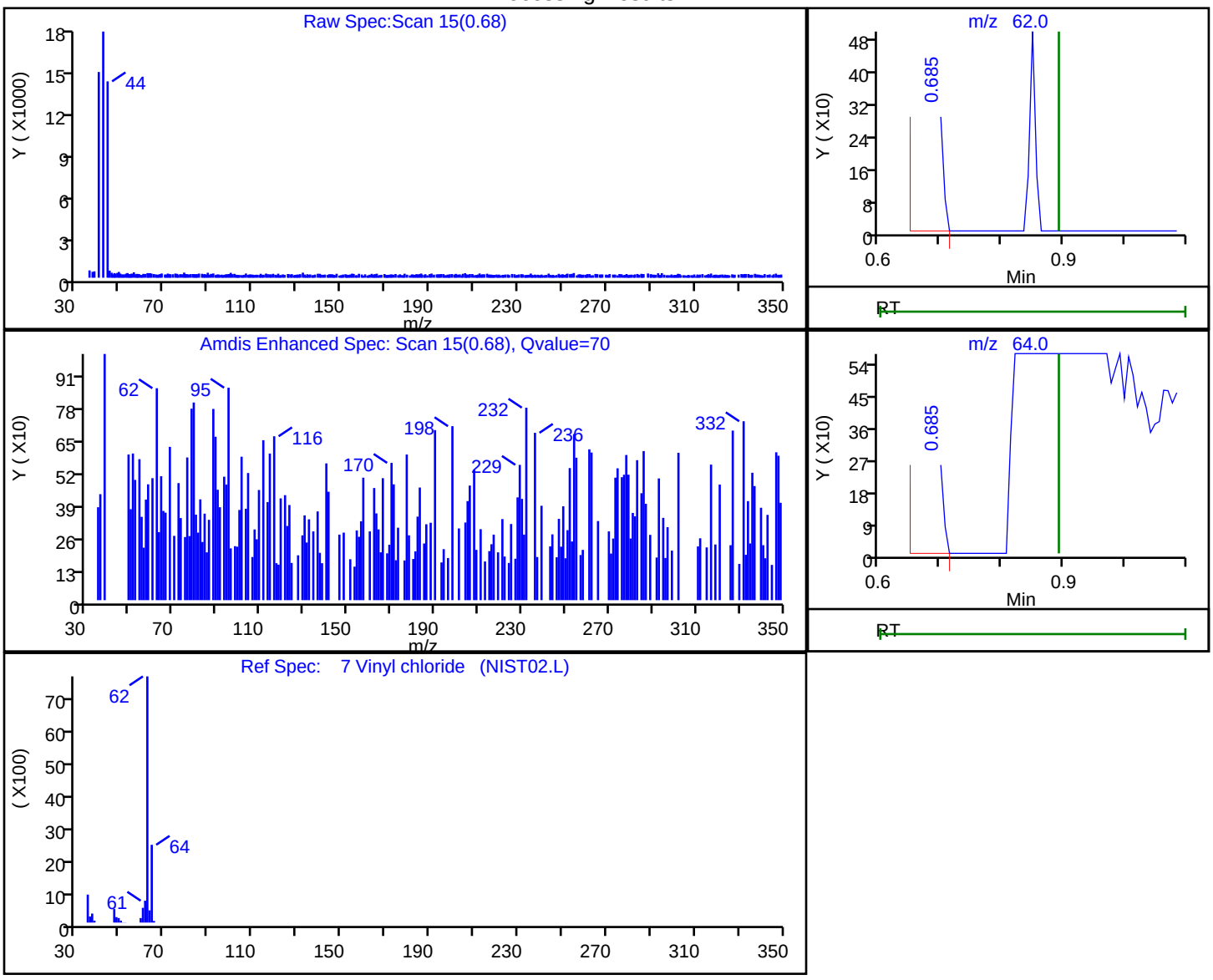
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79548.D		
Injection Date:	10-Sep-2020 01:06:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-4	Lab Sample ID:	460-217547-4
Client ID:	MW-206		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	1040	0.299096
0.68	64.00	615	

Reviewer: sgroa, 10-Sep-2020 08:08:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-213 Lab Sample ID: 460-217547-5

Matrix: Water Lab File ID: P79514.D

Analysis Method: 8260C Date Collected: 09/02/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 11:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	40		1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-213 Lab Sample ID: 460-217547-5

Matrix: Water Lab File ID: P79514.D

Analysis Method: 8260C Date Collected: 09/02/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 11:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.44	J	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	56		1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-123
460-00-4	4-Bromofluorobenzene	104		76-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-124
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-213 Lab Sample ID: 460-217547-5

Matrix: Water Lab File ID: P79514.D

Analysis Method: 8260C Date Collected: 09/02/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 11:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

Number TICs Found: 1 TIC Result Total: 27

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-43-4	Fluorodichloromethane	1.19	27	J N	90%

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D
Lims ID: 460-217547-B-5
Client ID: MW-213
Sample Type: Client
Inject. Date: 09-Sep-2020 11:42:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-B-5
Misc. Info.: 460-0116470-011
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 11:14:21 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: moroneyc Date: 09-Sep-2020 11:08:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	142563	39.6	
12 Trichlorofluoromethane	101	1.151	1.150	0.001	98	188687	56.1	M
27 Methylene Chloride	84	1.695	1.688	0.007	91	1276	0.4403	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	99	101548	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.777	2.769	0.008	98	113942	49.5	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	115323	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	107519	46.6	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	534191	50.0	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	63	13474	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	478415	48.1	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	385835	50.0	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	95	162797	52.1	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	93	212790	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

Eurofins TestAmerica, Edison
Tentatively Identified Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D				
Lims ID:	460-217547-B-5				
Client ID:	MW-213				
Sample Type:	Client				
Inject. Date:	09-Sep-2020 11:42:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-217547-B-5				
Misc. Info.:	460-0116470-011				
Operator ID:		Instrument ID:	CVOAMS13		
Method:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	10-Sep-2020 11:14:21	Calib Date:	04-Sep-2020 16:58:30		
Tic RT Window:	0.000 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromfs\Edison\Database\NIST02.L				
Min. Match:	70				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1019				
First Level Reviewer: moroneyc		Date:	09-Sep-2020 11:08:17		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
75-43-4	Fluorodichloromethane							
1.186	564995	26.6	66	90	4401	CHCl2F	102	

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 66 Fluorobenzene	3.385	1060464	50.0

QC Flag Legend

Processing Flags

Reagents:

8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

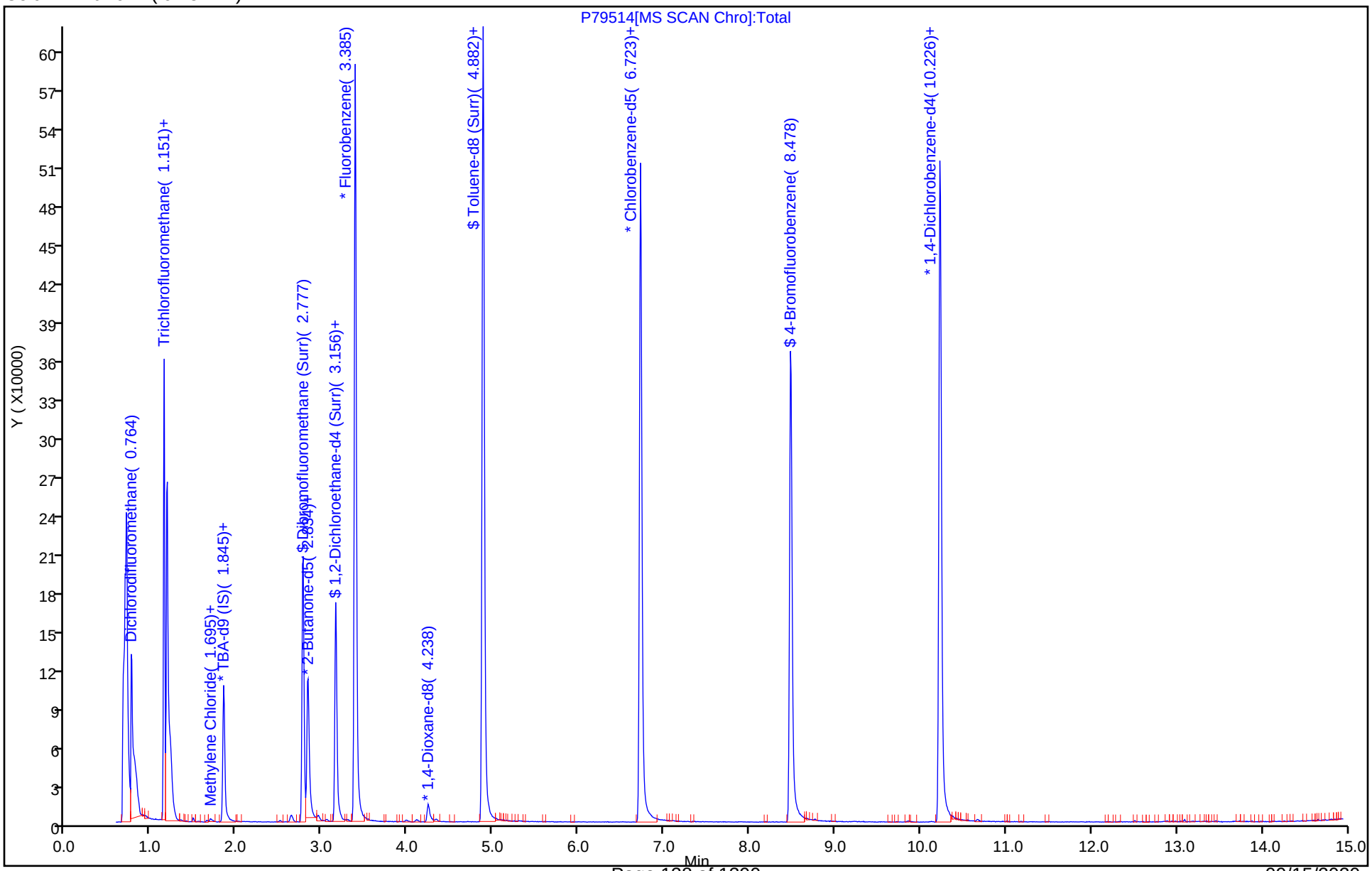
Report Date: 10-Sep-2020 11:14:53 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D

Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5	Worklist Smp#:	11
Client ID:	MW-213				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



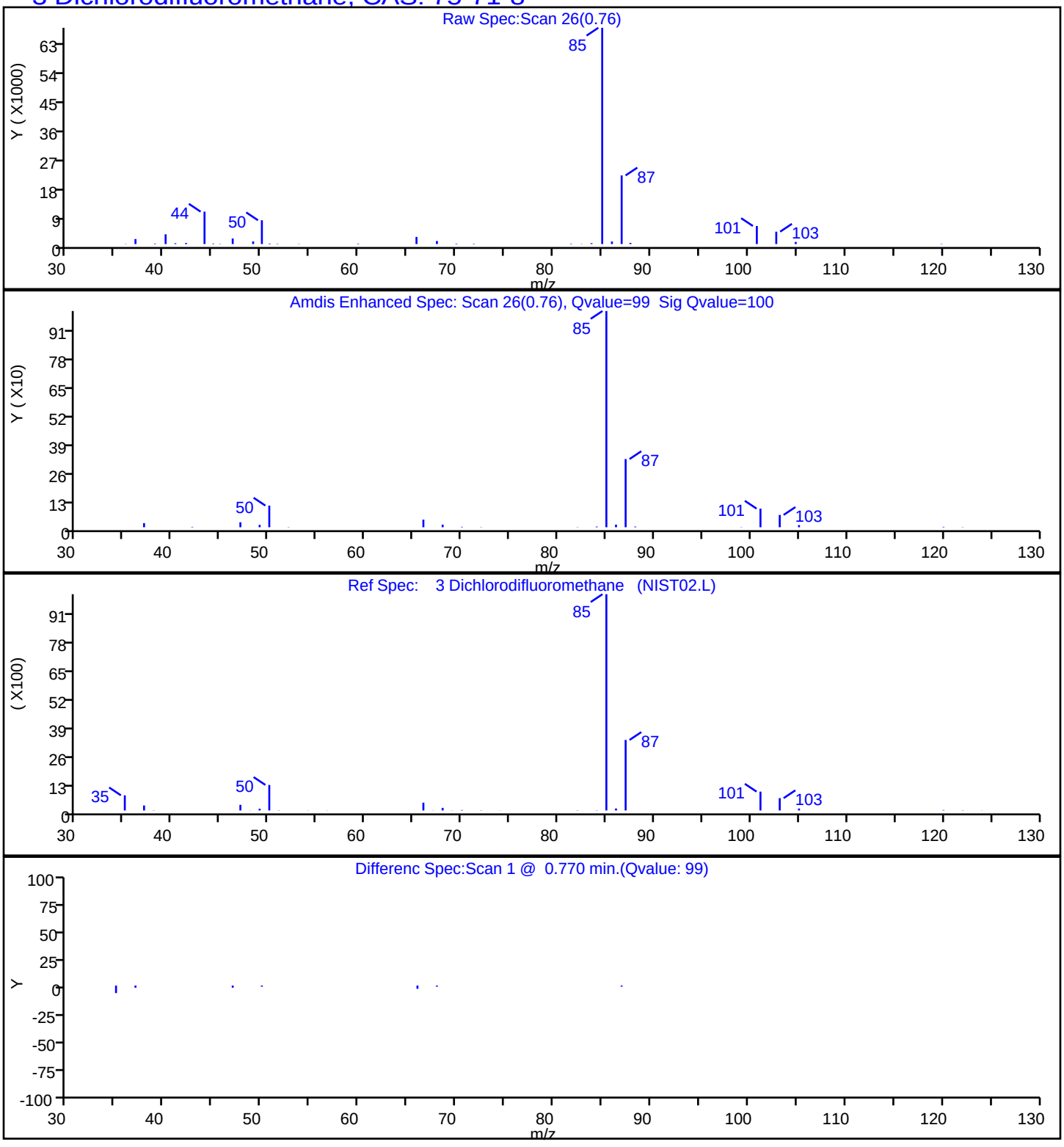
Report Date: 10-Sep-2020 11:14:53 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D

Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5		
Client ID:	MW-213				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

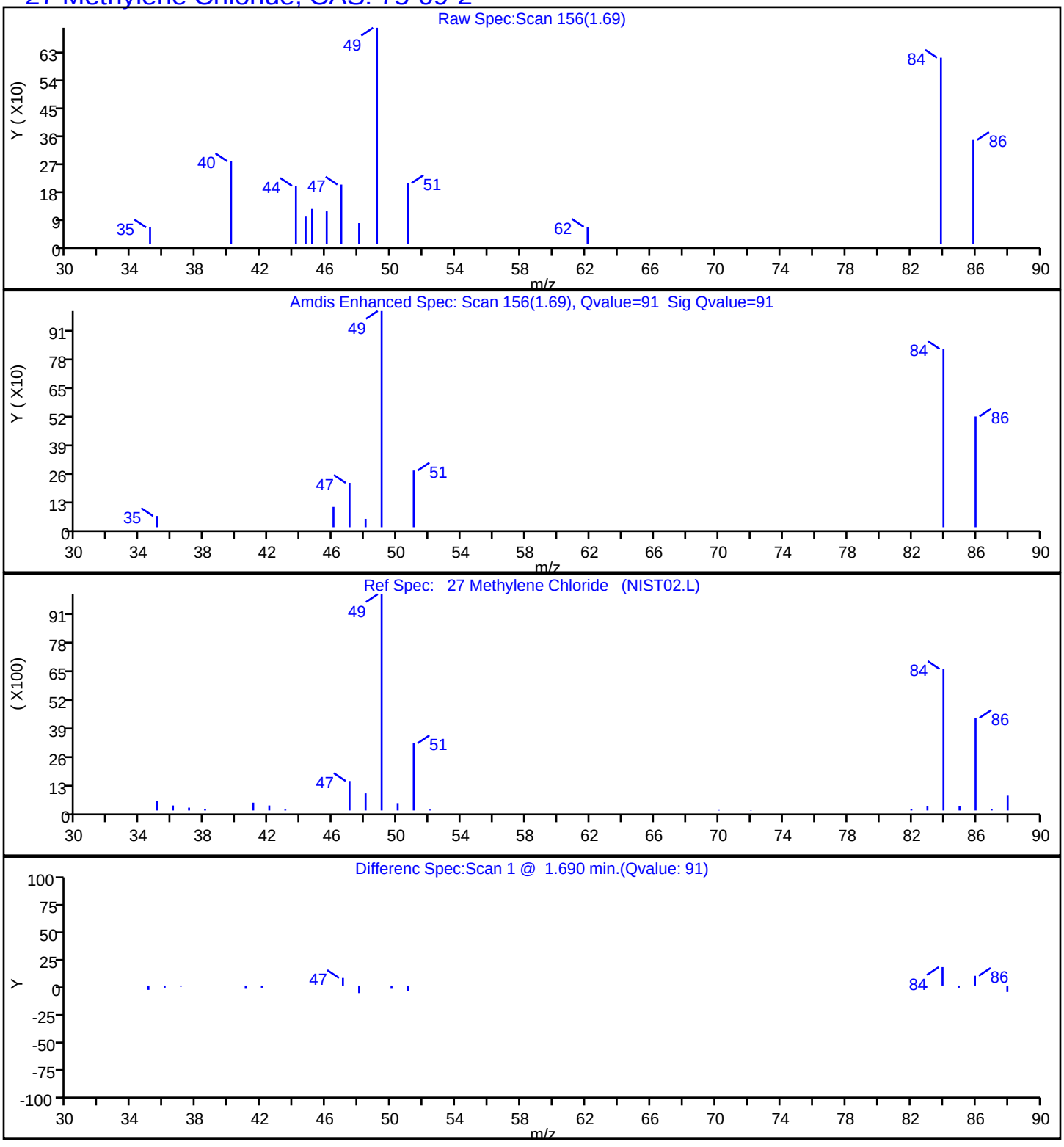
3 Dichlorodifluoromethane, CAS: 75-71-8



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D		
Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5
Client ID:	MW-213		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

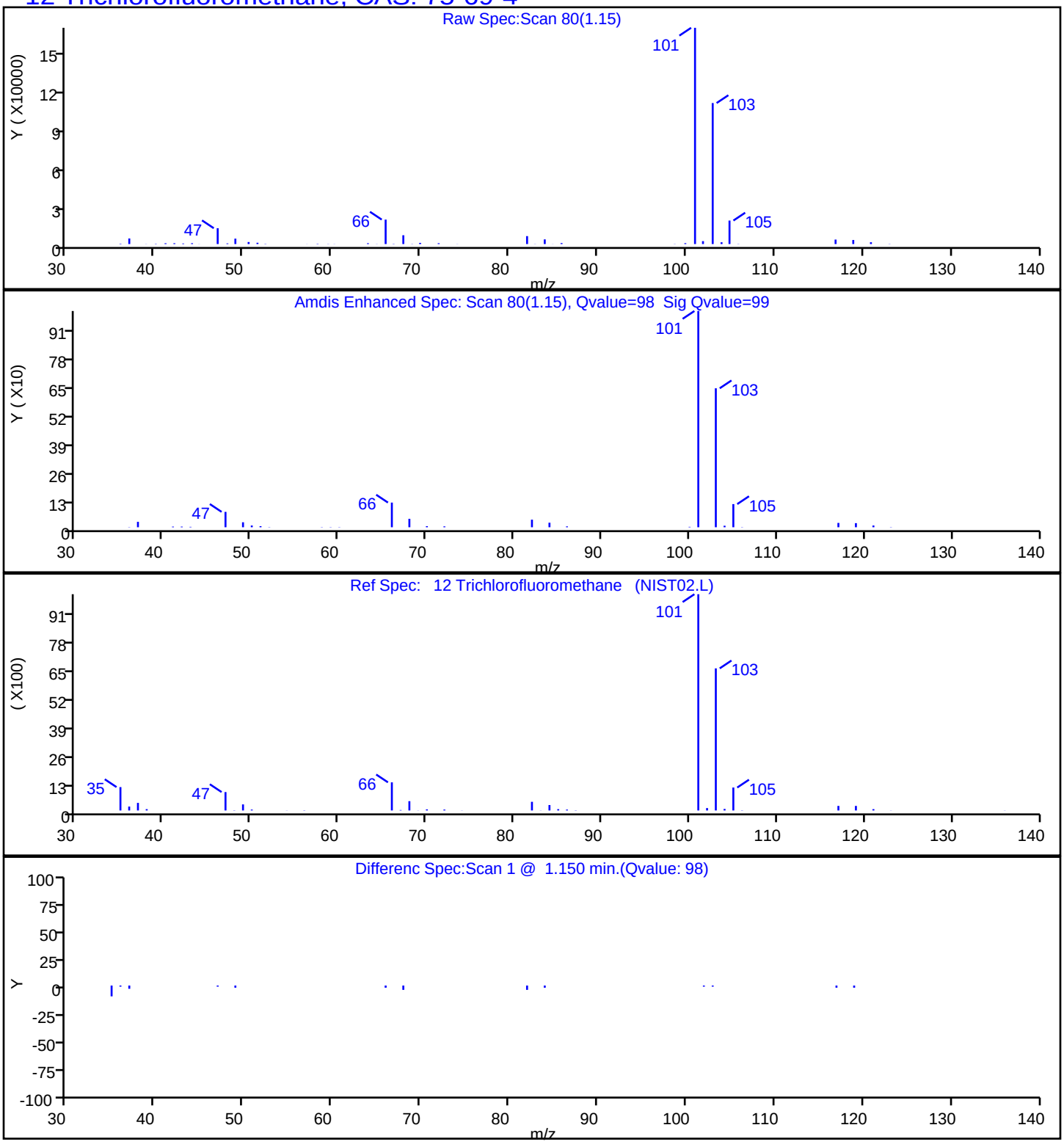
27 Methylene Chloride, CAS: 75-09-2



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D				
Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5		
Client ID:	MW-213				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

12 Trichlorofluoromethane, CAS: 75-69-4



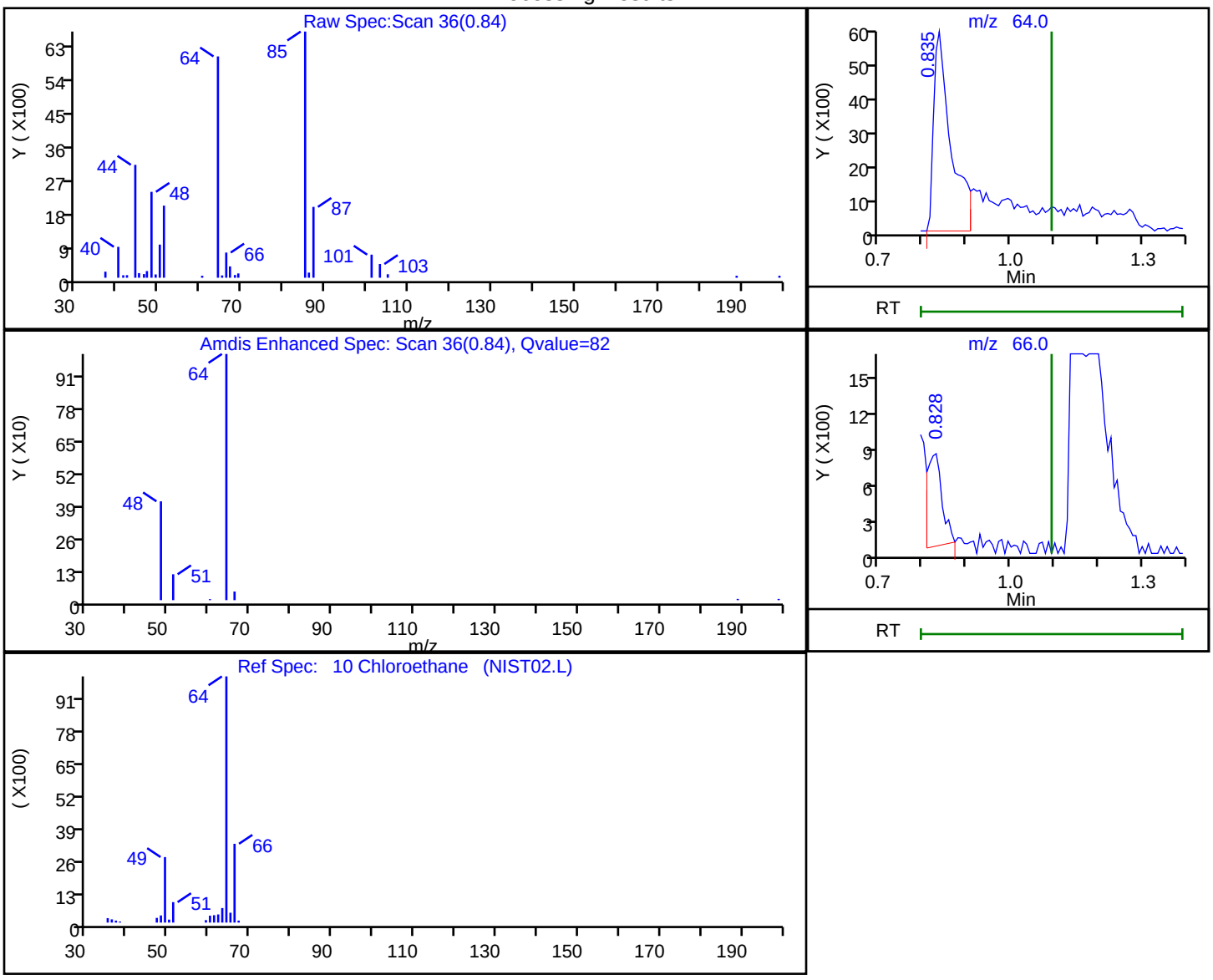
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D		
Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5
Client ID:	MW-213		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
0.84	64.00	16343	8.351067
0.83	66.00	1809	

Reviewer: moroneyc, 09-Sep-2020 11:08:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

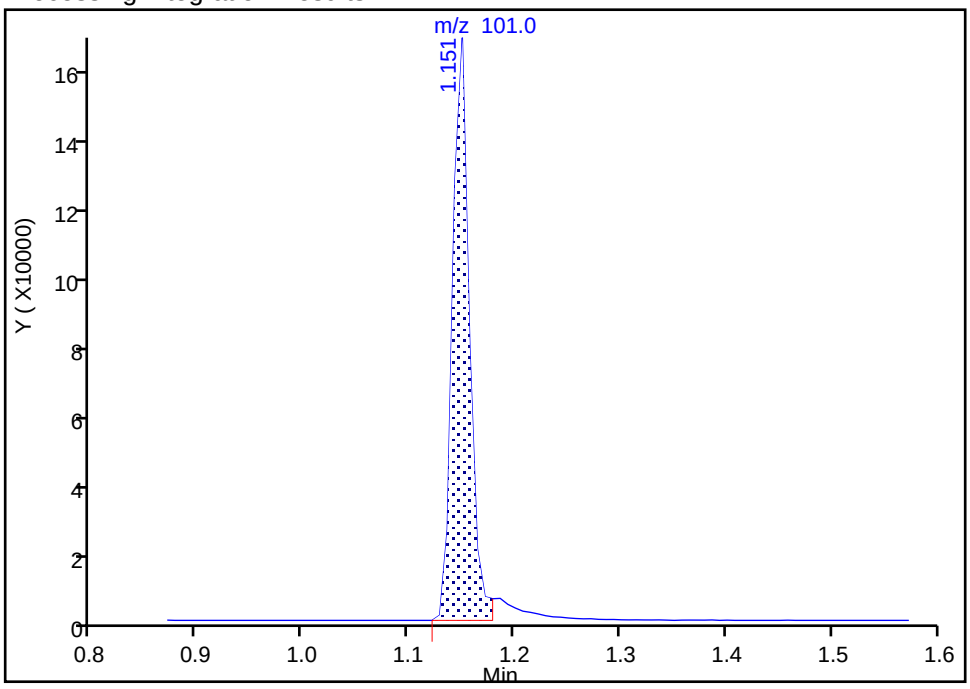
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D		
Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5
Client ID:	MW-213		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

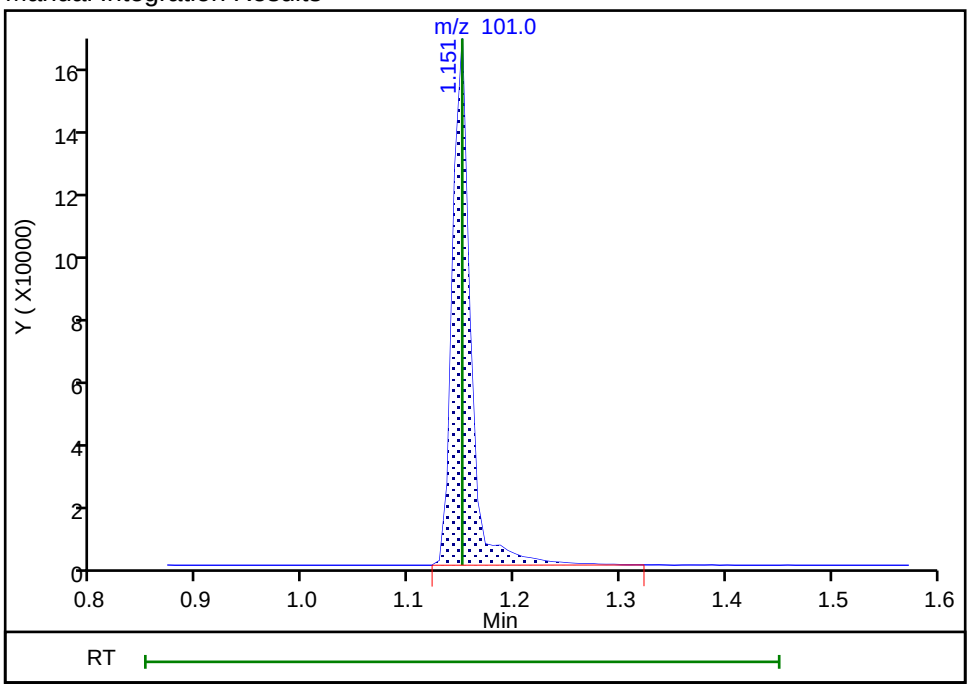
Processing Integration Results

RT: 1.15
Area: 177716
Amount: 52.864696
Amount Units: ug/l



Manual Integration Results

RT: 1.15
Area: 188687
Amount: 56.128209
Amount Units: ug/l



Reviewer: xuyvo, 09-Sep-2020 19:53:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

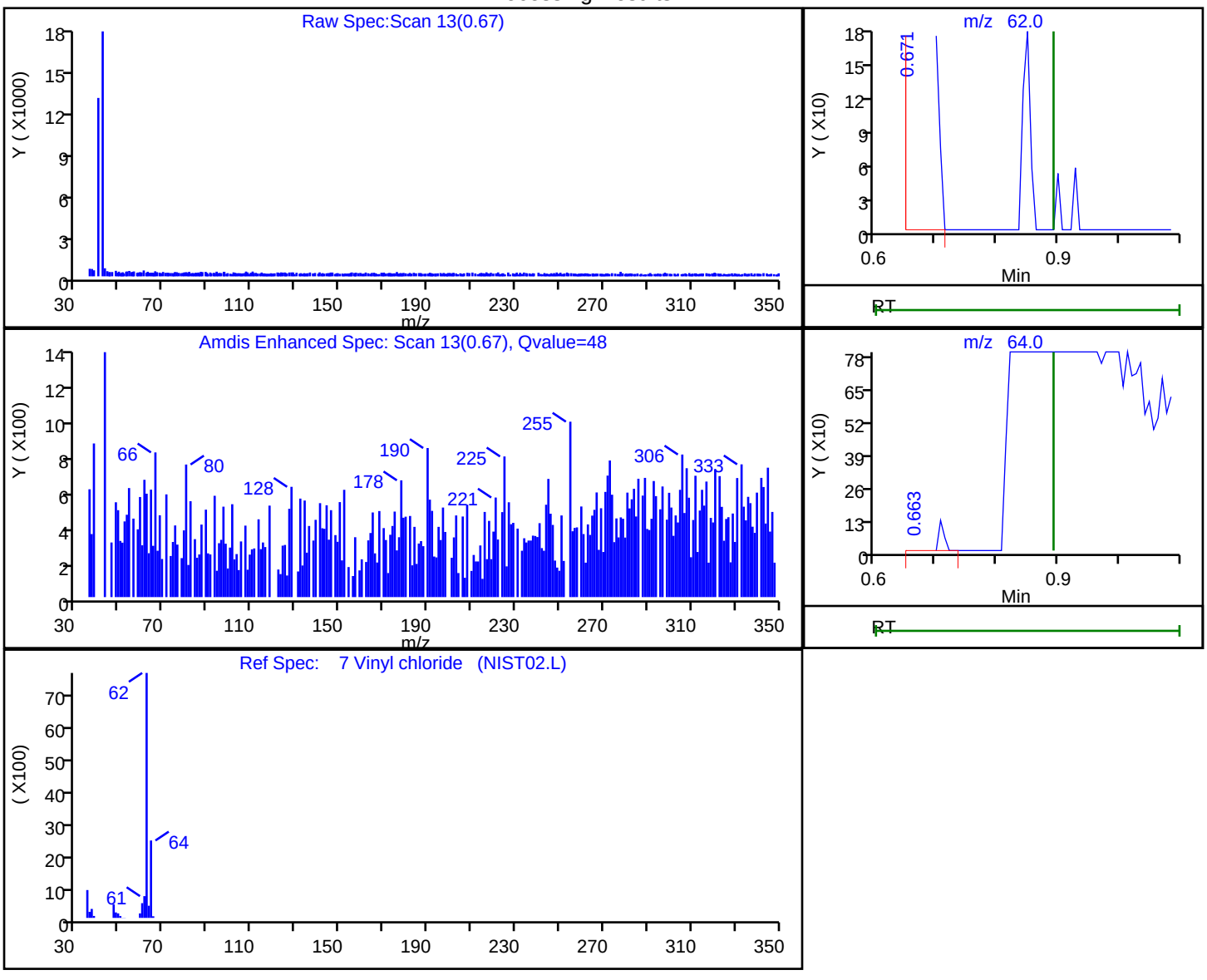
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D		
Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5
Client ID:	MW-213		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.67	62.00	690	0.187325
0.66	64.00	707	

Reviewer: moroneyc, 09-Sep-2020 11:07:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

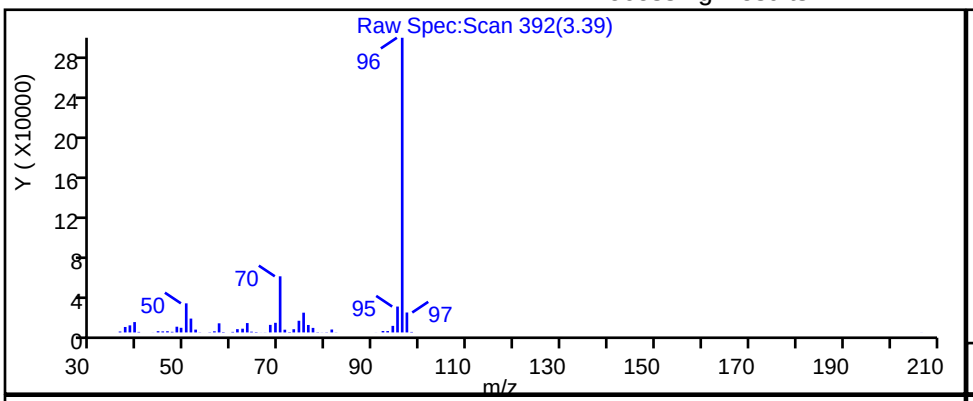
User Disabled Compound Report

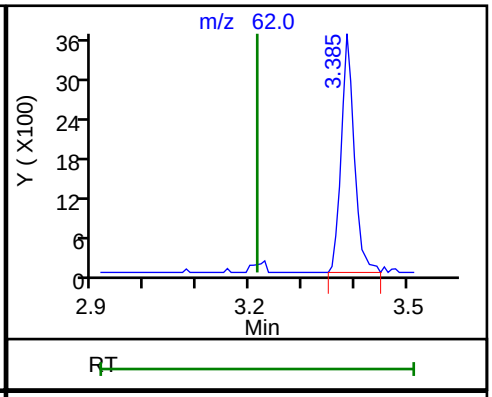
Eurofins TestAmerica, Edison

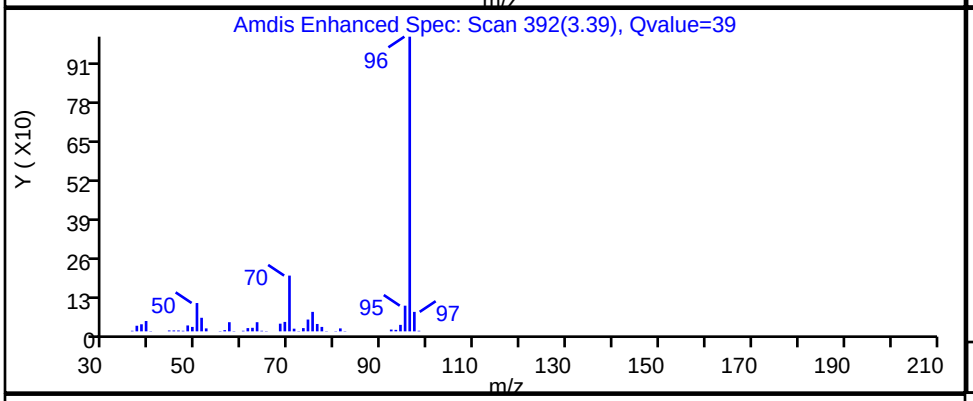
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D		
Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5
Client ID:	MW-213		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

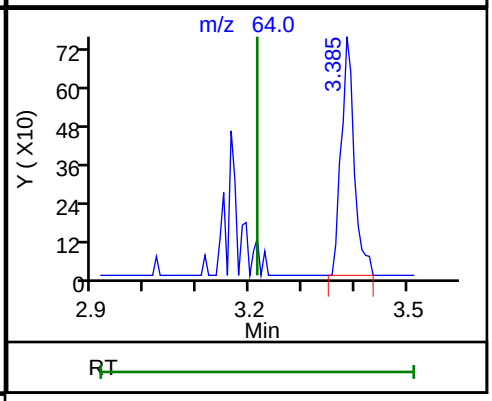
63 1,2-Dichloroethane, CAS: 107-06-2

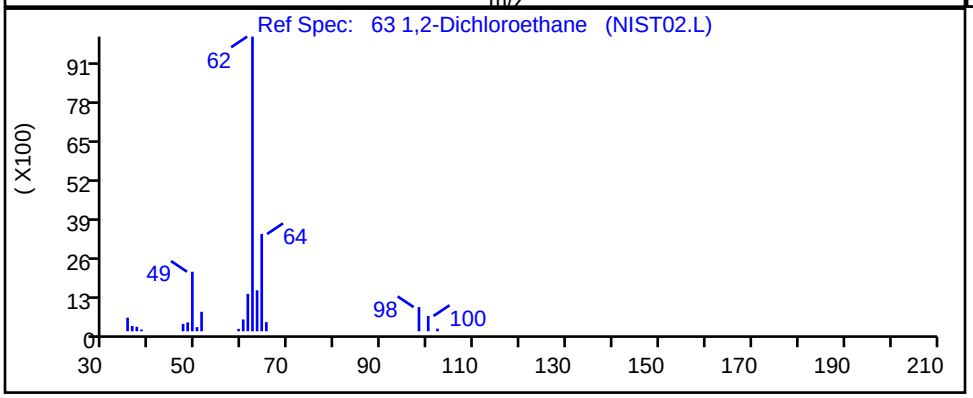
Processing Results











RT	Mass	Response	Amount
3.39	62.00	6377	2.136325
3.39	64.00	1300	

Reviewer: moroneyc, 09-Sep-2020 11:08:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

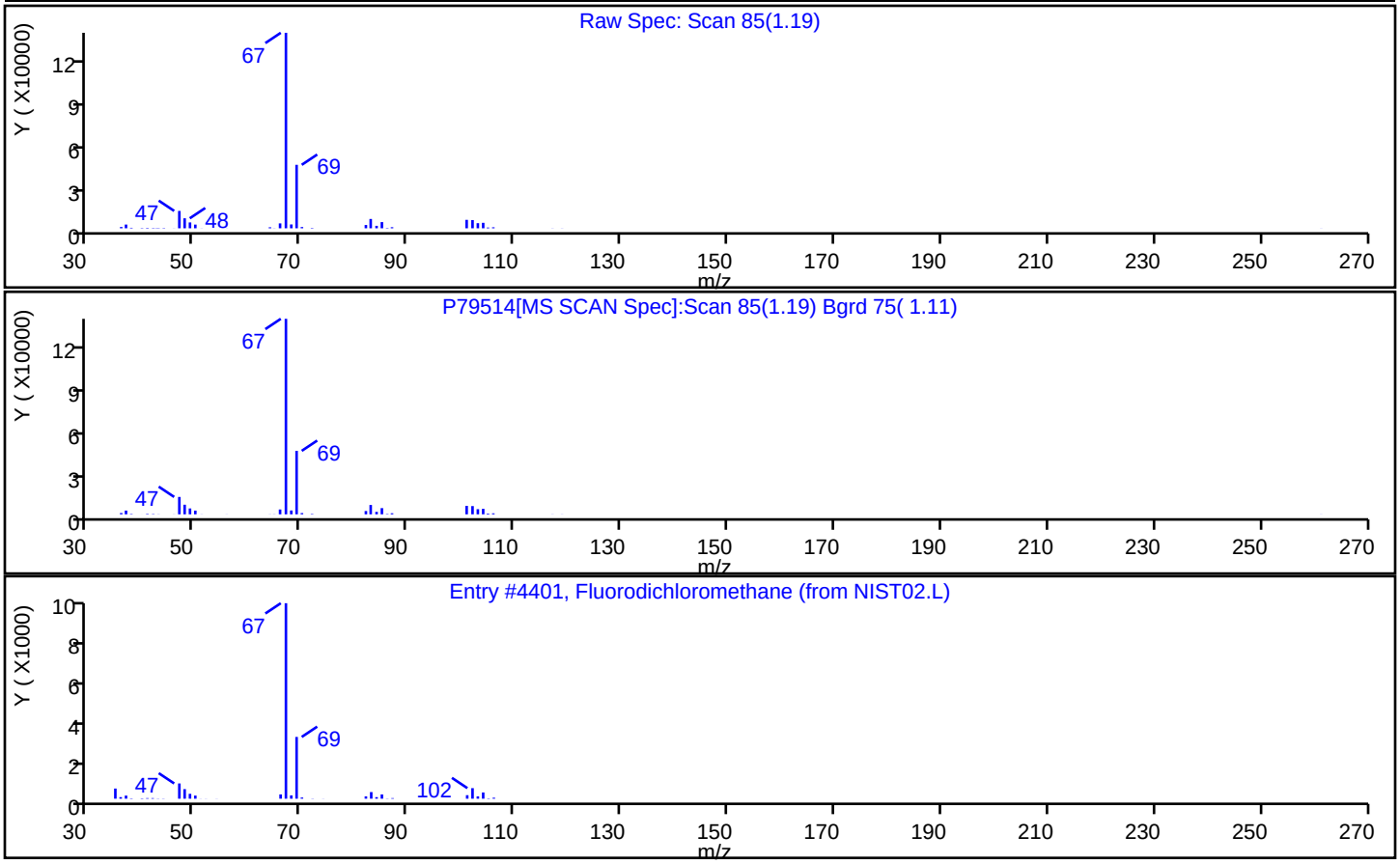
Report Date: 10-Sep-2020 11:14:53 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79514.D

Injection Date:	09-Sep-2020 11:42:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-B-5	Lab Sample ID:	460-217547-5		
Client ID:	MW-213				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Fluorodichloromethane	75-43-4	NIST02.L	4401	CHCl2F	102	90



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 460-217547-6

Matrix: Water Lab File ID: P79546.D

Analysis Method: 8260C Date Collected: 09/02/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 00:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 460-217547-6

Matrix: Water Lab File ID: P79546.D

Analysis Method: 8260C Date Collected: 09/02/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 00:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-123
460-00-4	4-Bromofluorobenzene	104		76-120
1868-53-7	Dibromofluoromethane (Surr)	102		77-124
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 460-217547-6

Matrix: Water Lab File ID: P79546.D

Analysis Method: 8260C Date Collected: 09/02/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 00:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79546.D
Lims ID: 460-217547-A-6
Client ID: DUP
Sample Type: Client
Inject. Date: 10-Sep-2020 00:18:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-A-6
Misc. Info.: 460-0116494-017
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: sgroa Date: 10-Sep-2020 08:05:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.853	1.845	0.008	99	114140	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.777	2.769	0.008	98	109185	50.8	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	98	115660	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	103182	47.8	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	499346	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	15872	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	452600	47.1	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	84	372705	50.0	
$ 107 4-Bromofluorobenzene	174	8.486	8.478	0.008	97	157201	52.1	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	206109	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

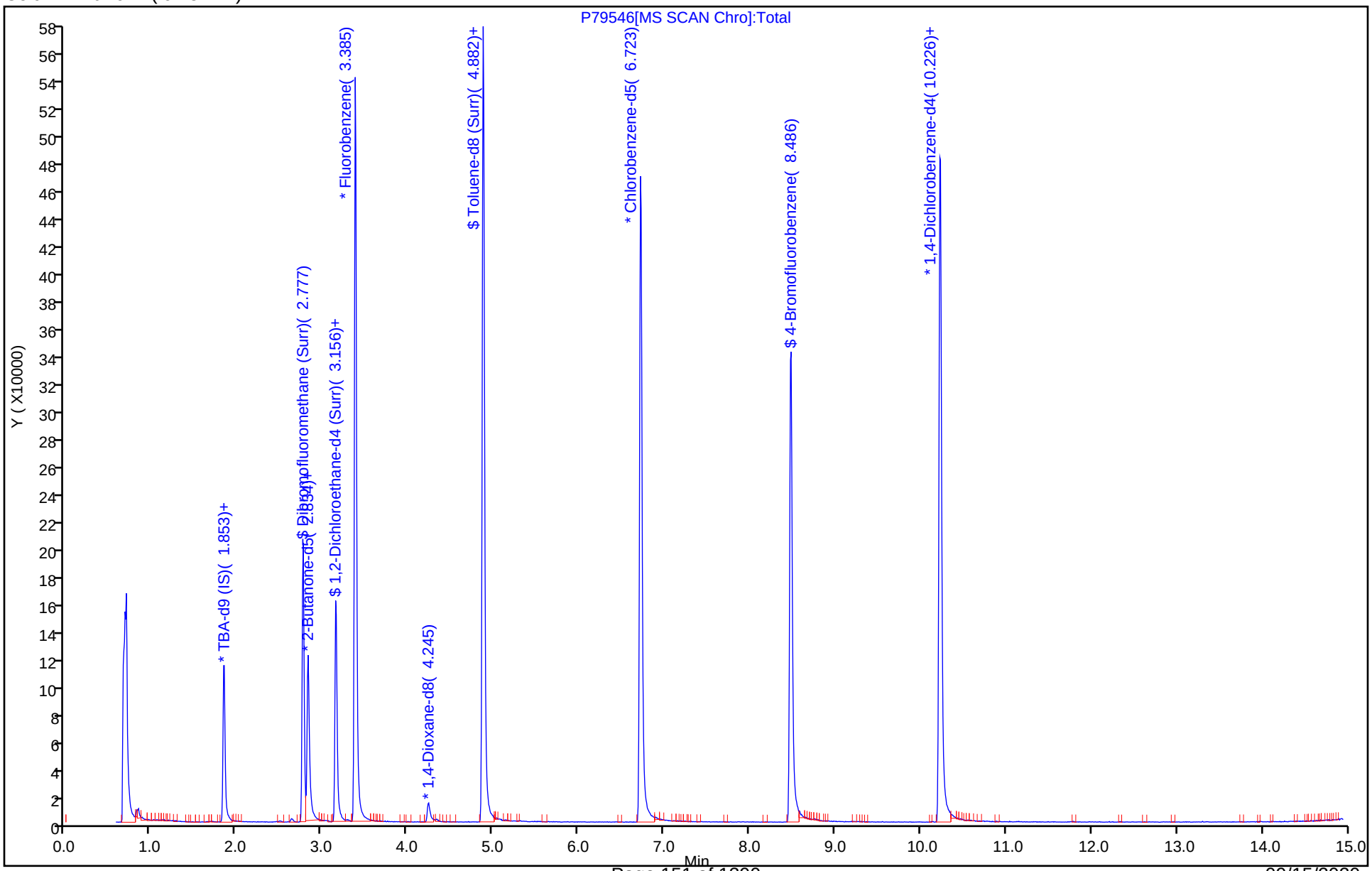
Report Date: 10-Sep-2020 14:26:19 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79546.D

Injection Date:	10-Sep-2020 00:18:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-A-6	Lab Sample ID:	460-217547-6	Worklist Smp#:	17
Client ID:	DUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



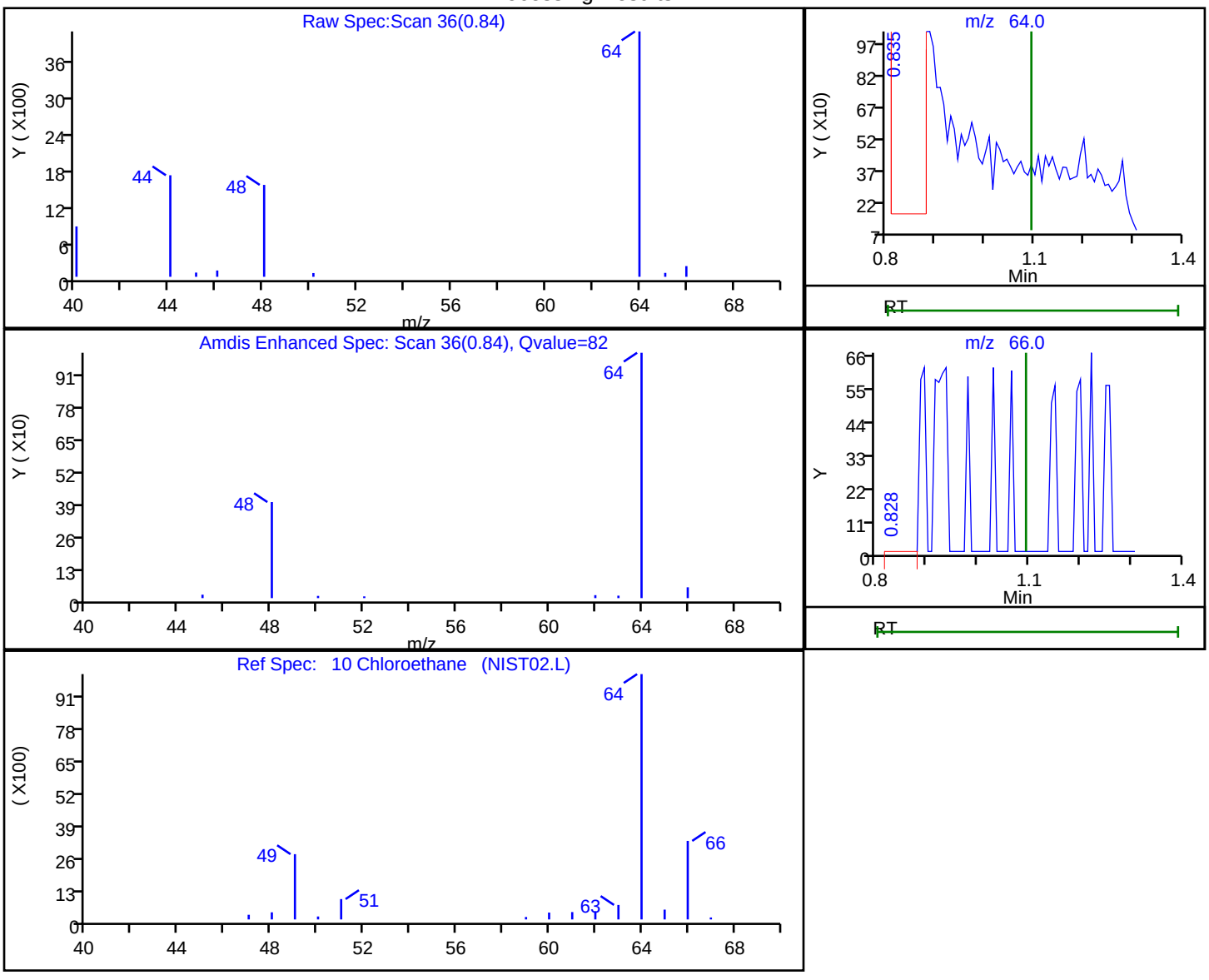
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79546.D		
Injection Date:	10-Sep-2020 00:18:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-6	Lab Sample ID:	460-217547-6
Client ID:	DUP		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
0.84	64.00	9879	5.400304
0.83	66.00	493	

Reviewer: sgroa, 10-Sep-2020 08:04:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

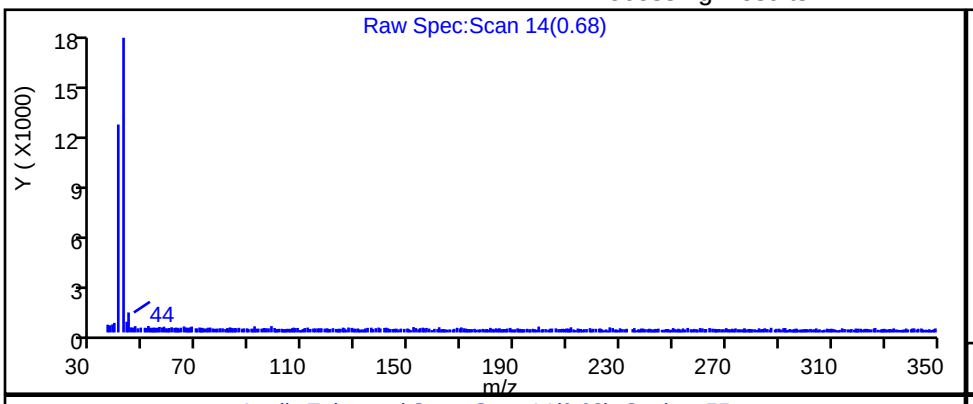
User Disabled Compound Report

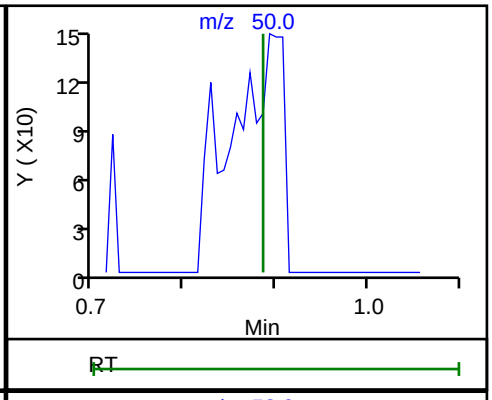
Eurofins TestAmerica, Edison

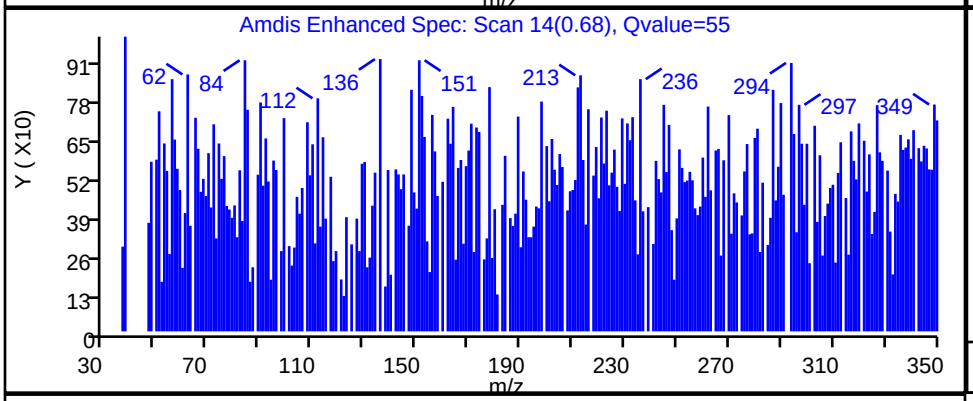
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79546.D		
Injection Date:	10-Sep-2020 00:18:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-6	Lab Sample ID:	460-217547-6
Client ID:	DUP		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

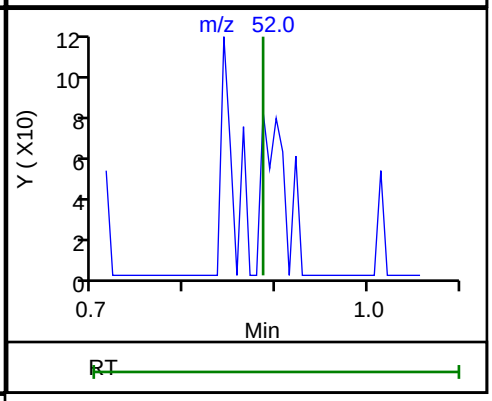
6 Chloromethane, CAS: 74-87-3

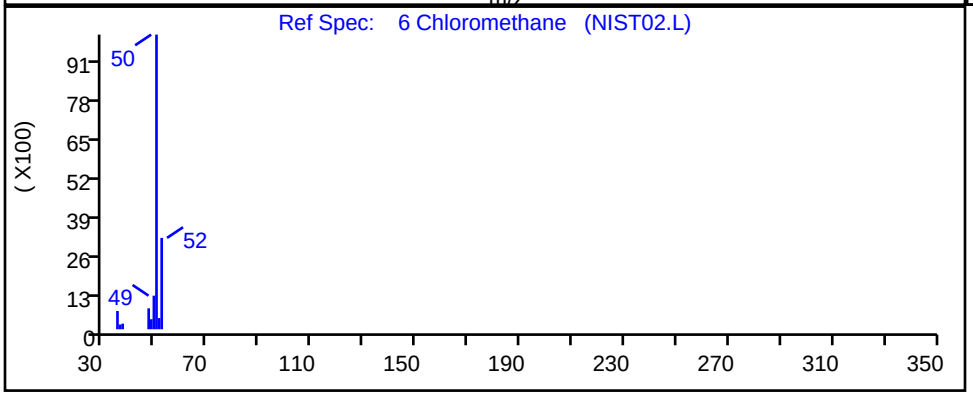
Processing Results











RT	Mass	Response	Amount
0.68	50.00	944	0.200875
0.67	52.00	596	

Reviewer: sgroa, 10-Sep-2020 08:04:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

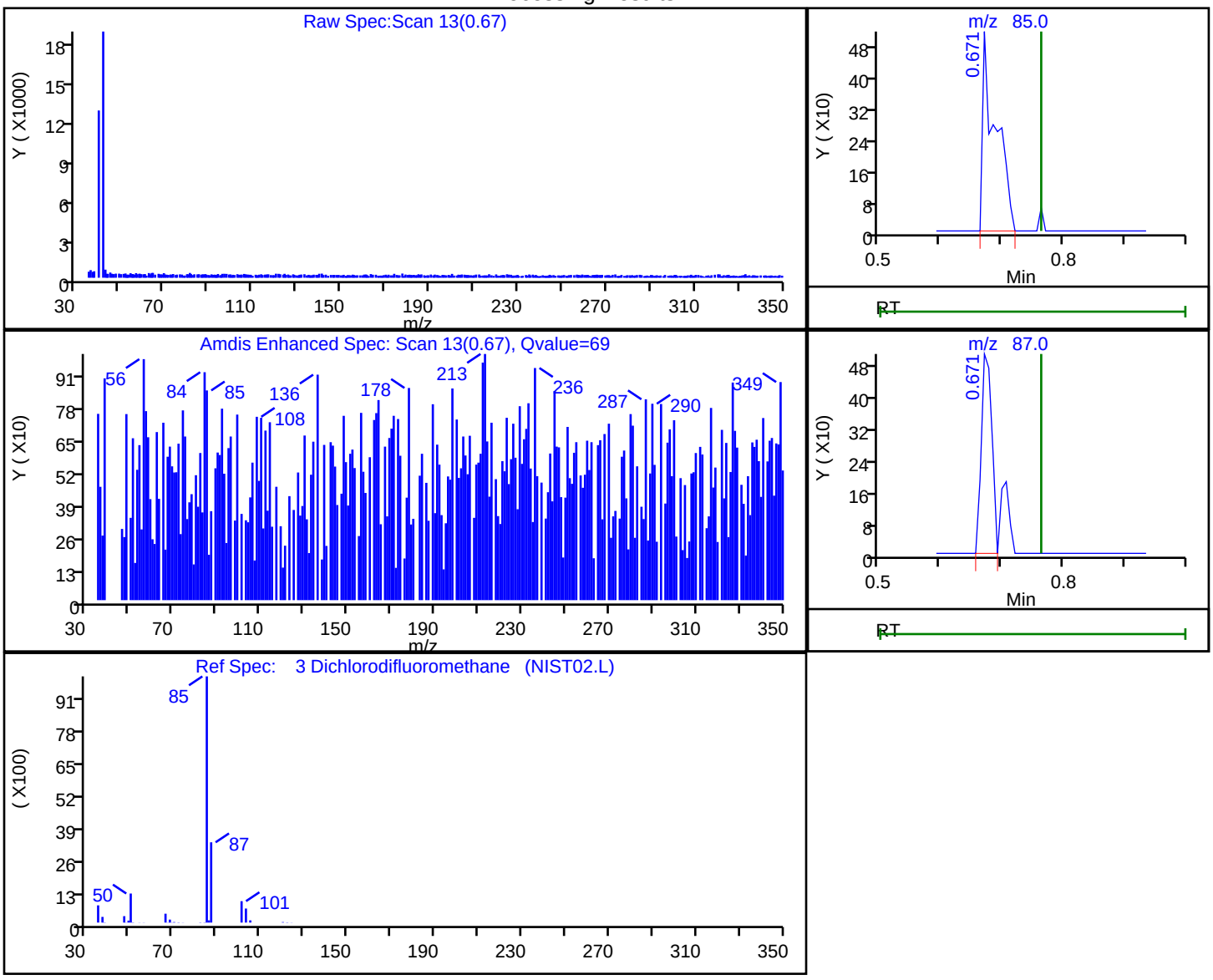
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79546.D		
Injection Date:	10-Sep-2020 00:18:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-6	Lab Sample ID:	460-217547-6
Client ID:	DUP		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.67	85.00	781	0.232017
0.67	87.00	611	

Reviewer: sgroa, 10-Sep-2020 08:04:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

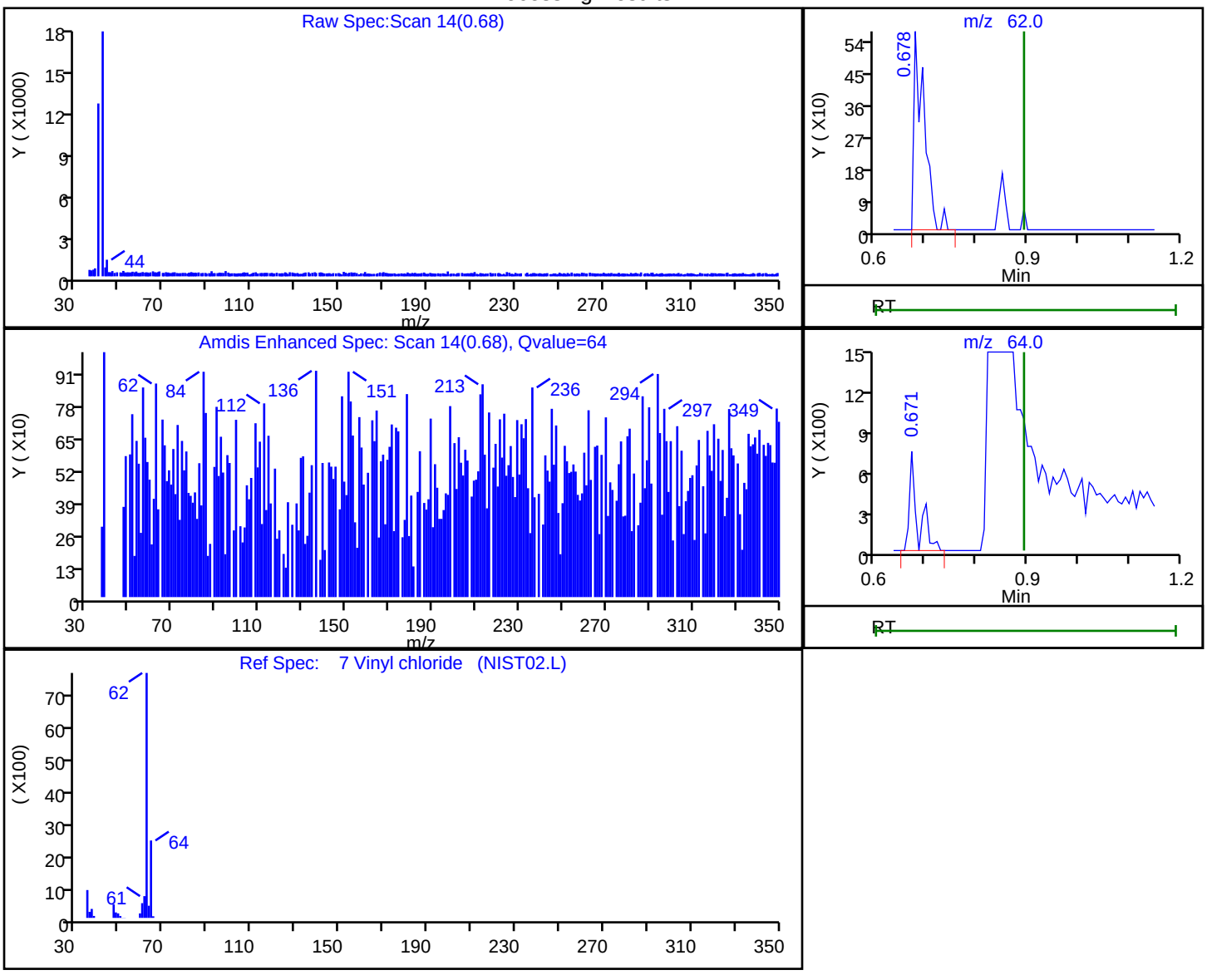
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79546.D		
Injection Date:	10-Sep-2020 00:18:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-6	Lab Sample ID:	460-217547-6
Client ID:	DUP		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	803	0.233216
0.67	64.00	835	

Reviewer: sgroa, 10-Sep-2020 08:04:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217547-7

Matrix: Water Lab File ID: P79492.D

Analysis Method: 8260C Date Collected: 09/02/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U *	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217547-7

Matrix: Water Lab File ID: P79492.D

Analysis Method: 8260C Date Collected: 09/02/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.83	J	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		75-123
460-00-4	4-Bromofluorobenzene	96		76-120
1868-53-7	Dibromofluoromethane (Surr)	96		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217547-7

Matrix: Water Lab File ID: P79492.D

Analysis Method: 8260C Date Collected: 09/02/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D
Lims ID: 460-217547-A-7
Client ID: FB
Sample Type: Client
Inject. Date: 09-Sep-2020 02:49:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-A-7
Misc. Info.: 460-0116444-014
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 07:05:09 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: yallabg Date: 09-Sep-2020 02:30:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
27 Methylene Chloride	84	1.695	1.688	0.007	92	2499	0.8341	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	99	88671	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	113612	47.8	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	98	88294	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	104127	43.6	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	552302	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	12188	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.883	4.883	0.001	99	500167	49.4	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	392651	50.0	
$ 107 4-Bromofluorobenzene	174	8.486	8.478	0.008	94	153179	48.2	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	206548	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

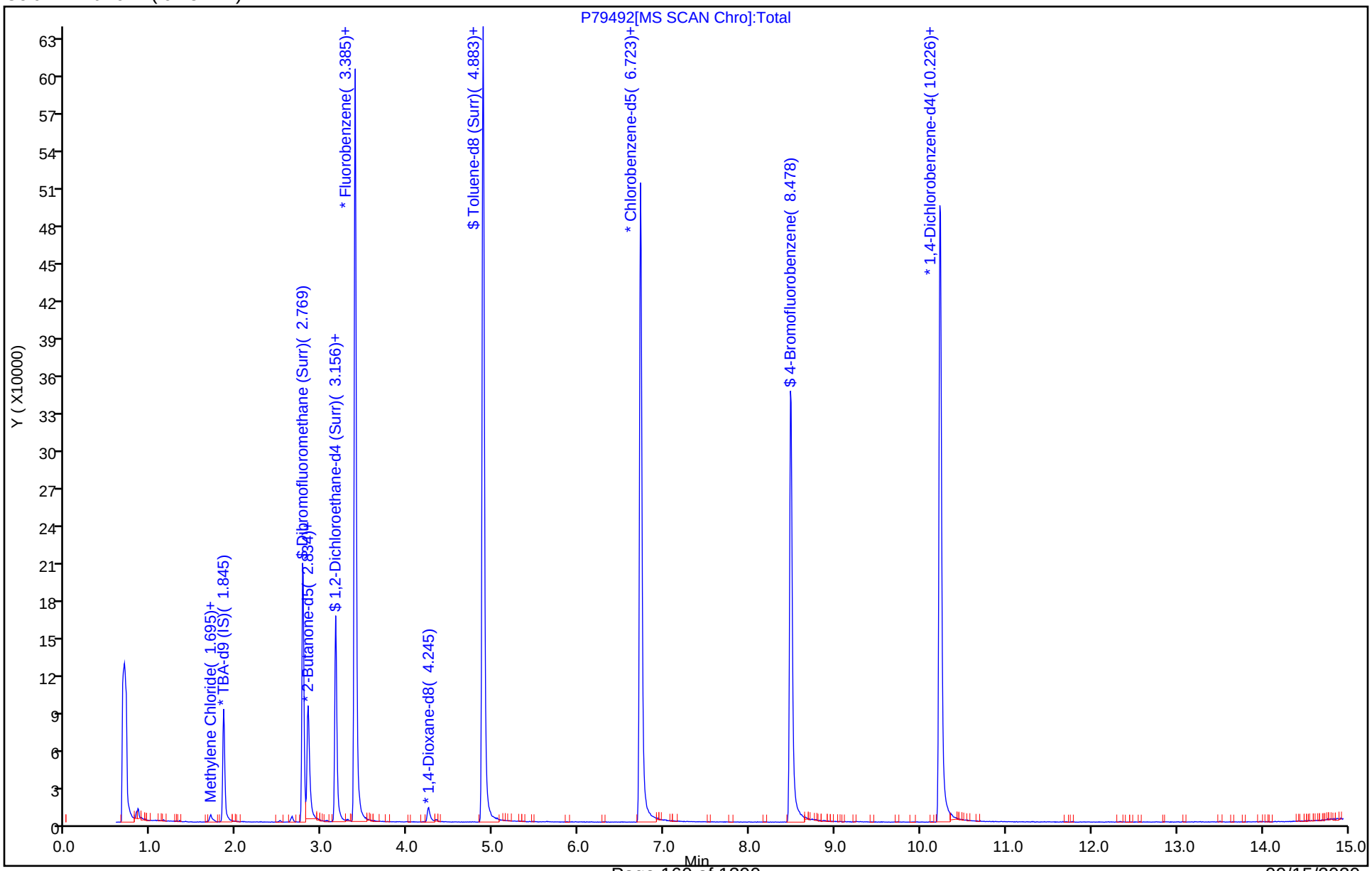
Report Date: 09-Sep-2020 07:05:27 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D

Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7	Worklist Smp#:	14
Client ID:	FB				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

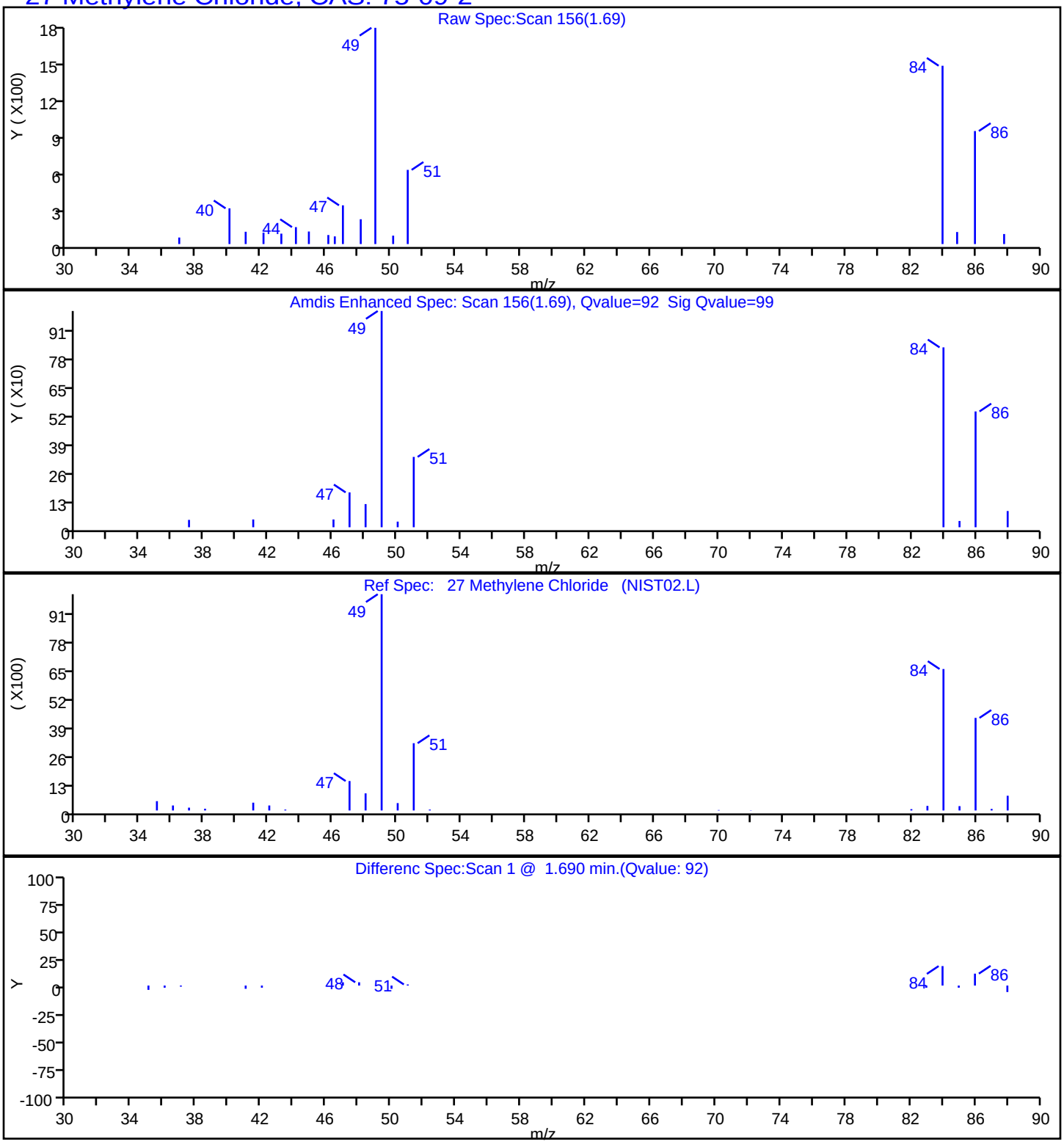
Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D				
Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13		
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7		
Client ID:	FB				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2



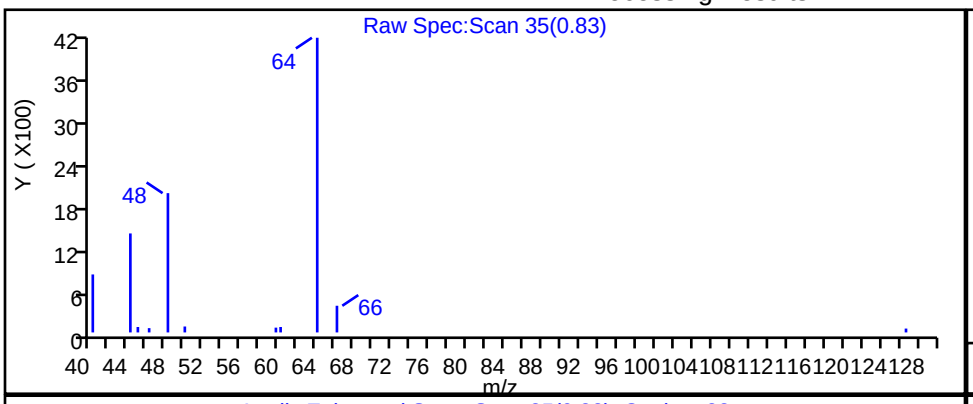
User Disabled Compound Report

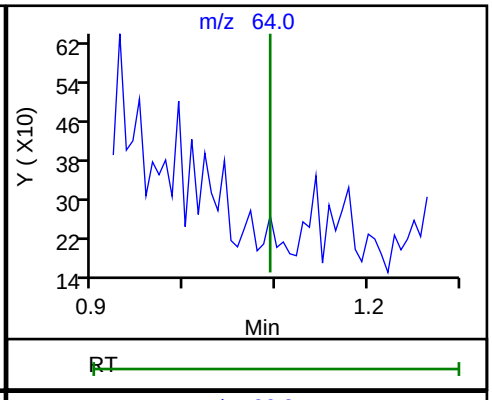
Eurofins TestAmerica, Edison

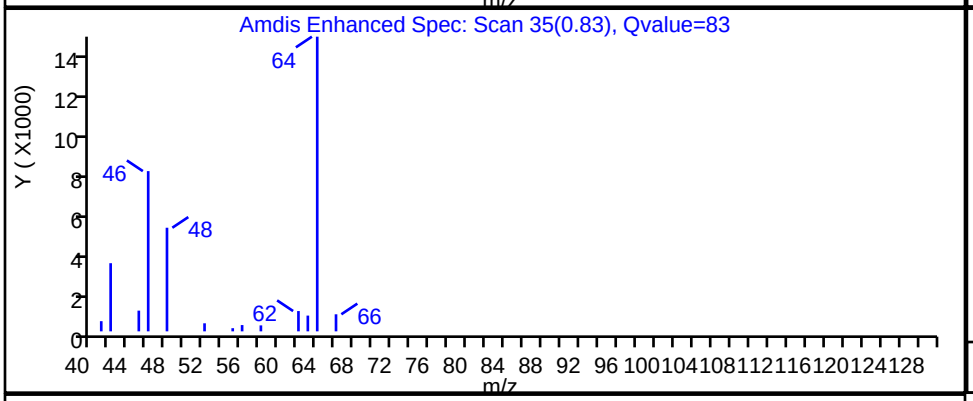
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D		
Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7
Client ID:	FB		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

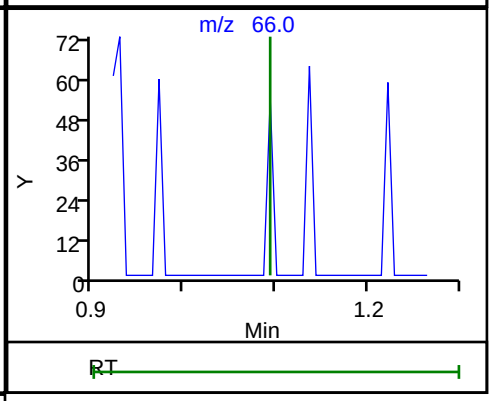
10 Chloroethane, CAS: 75-00-3

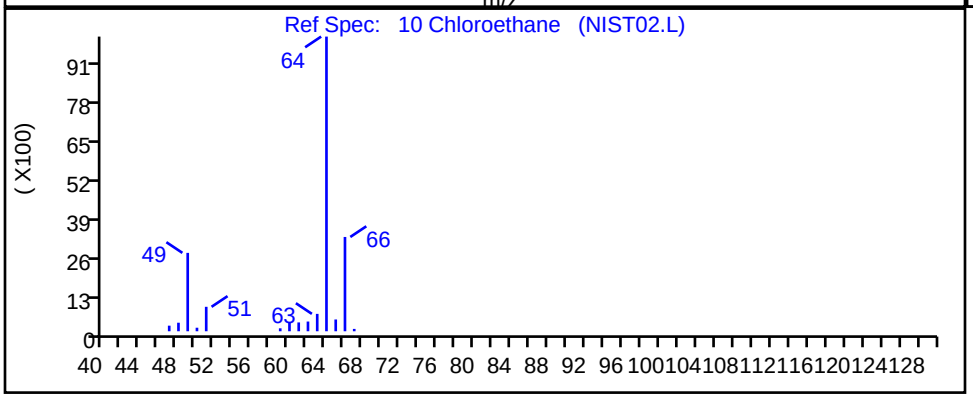
Processing Results











RT	Mass	Response	Amount
0.83	64.00	8282	4.093223
0.83	66.00	530	

Reviewer: moroneyc, 09-Sep-2020 07:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

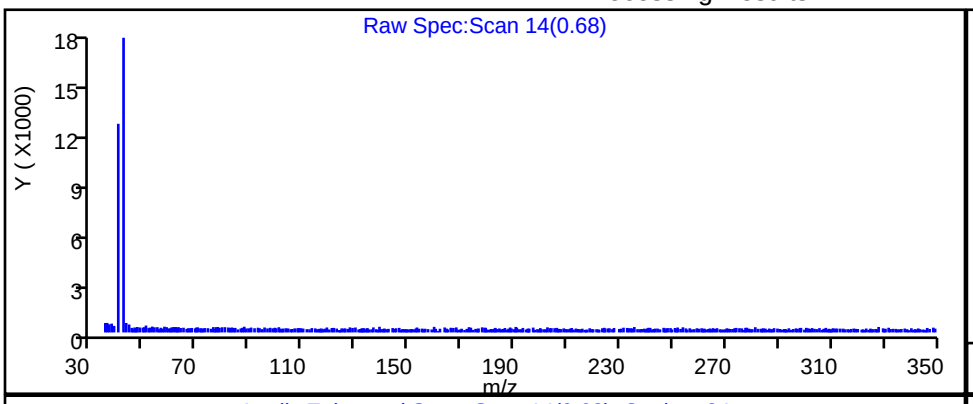
User Disabled Compound Report

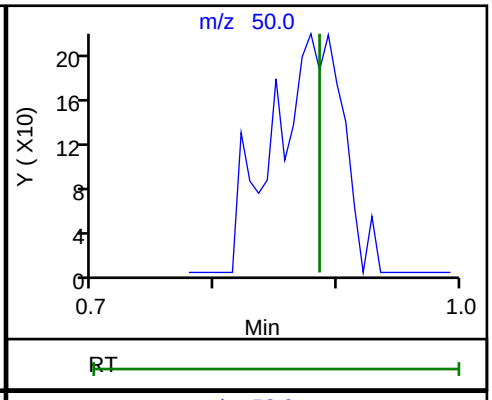
Eurofins TestAmerica, Edison

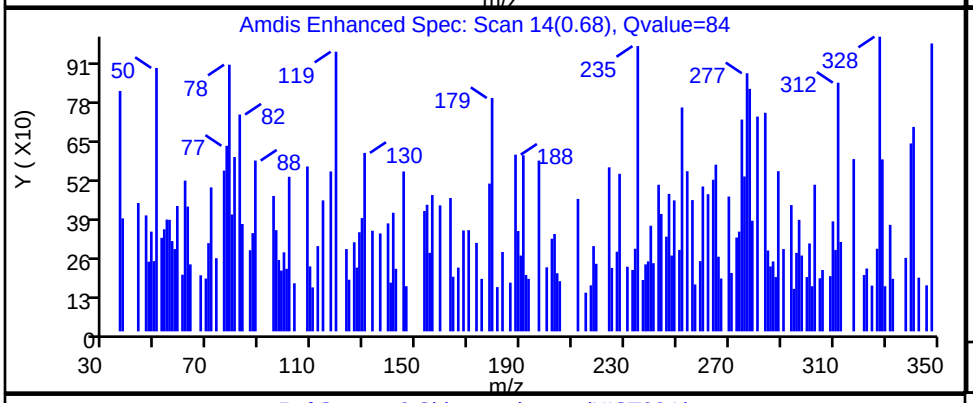
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D		
Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7
Client ID:	FB		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

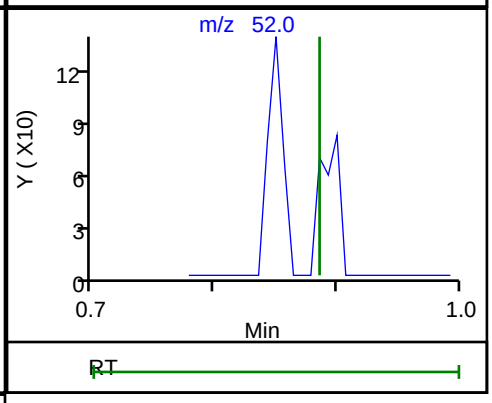
6 Chloromethane, CAS: 74-87-3

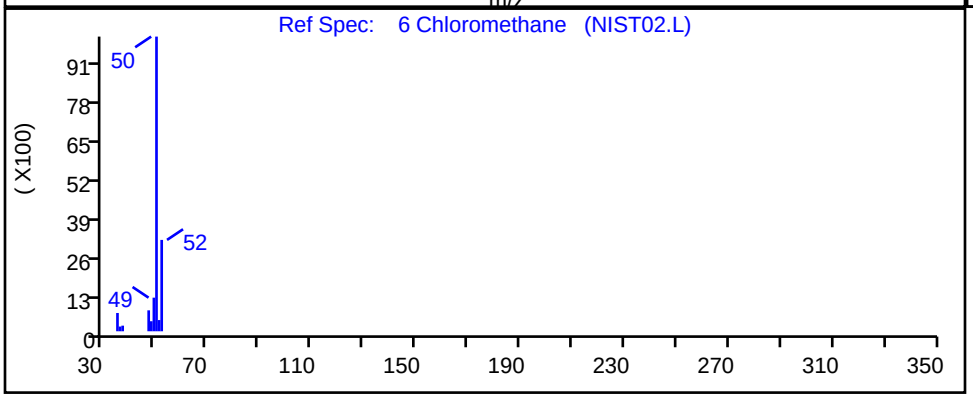
Processing Results











RT	Mass	Response	Amount
0.68	50.00	817	0.157181
0.68	52.00	678	

Reviewer: moroneyc, 09-Sep-2020 07:01:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

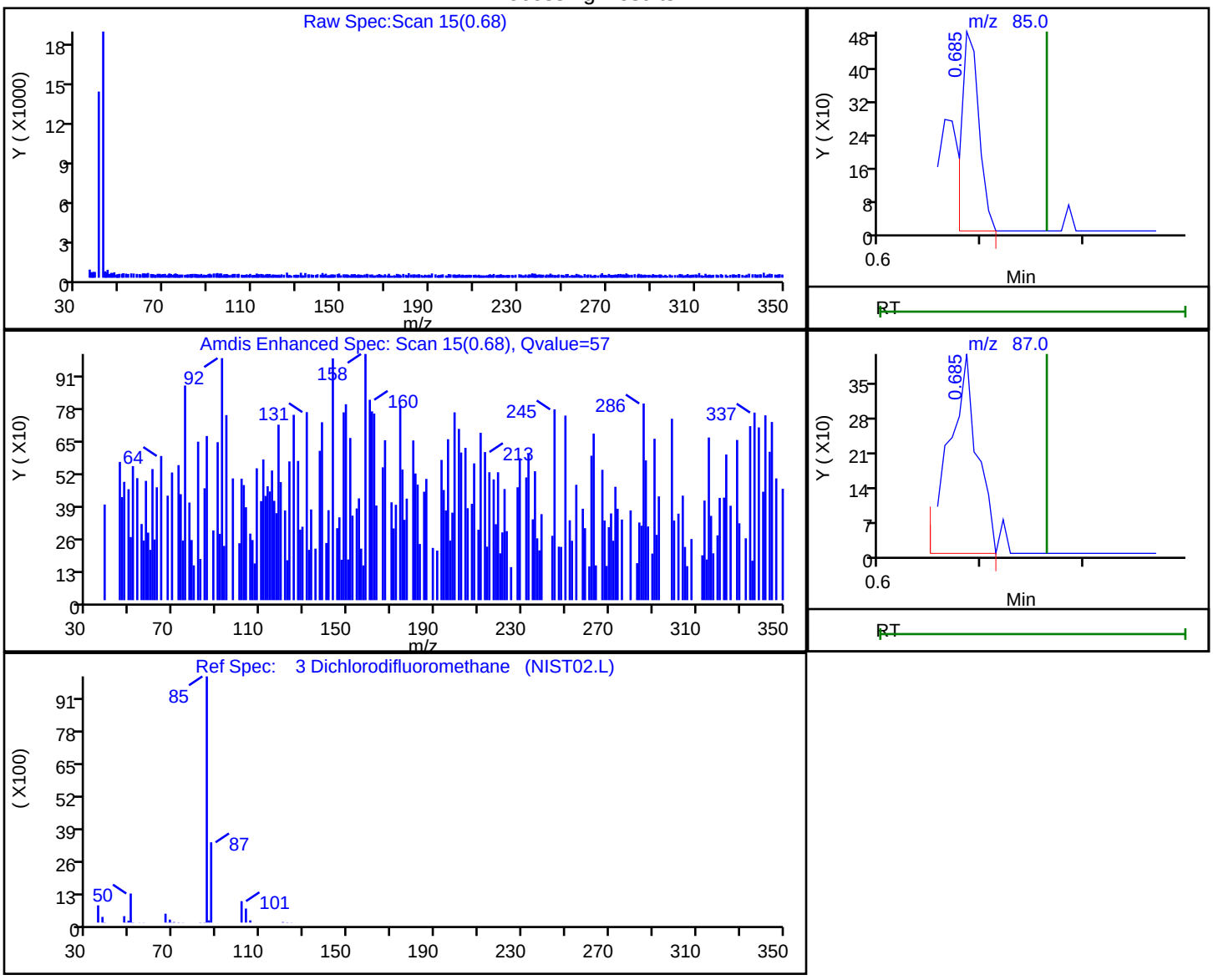
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D		
Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7
Client ID:	FB		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.68	85.00	579	0.155515
0.68	87.00	742	

Reviewer: moroneyc, 09-Sep-2020 07:01:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

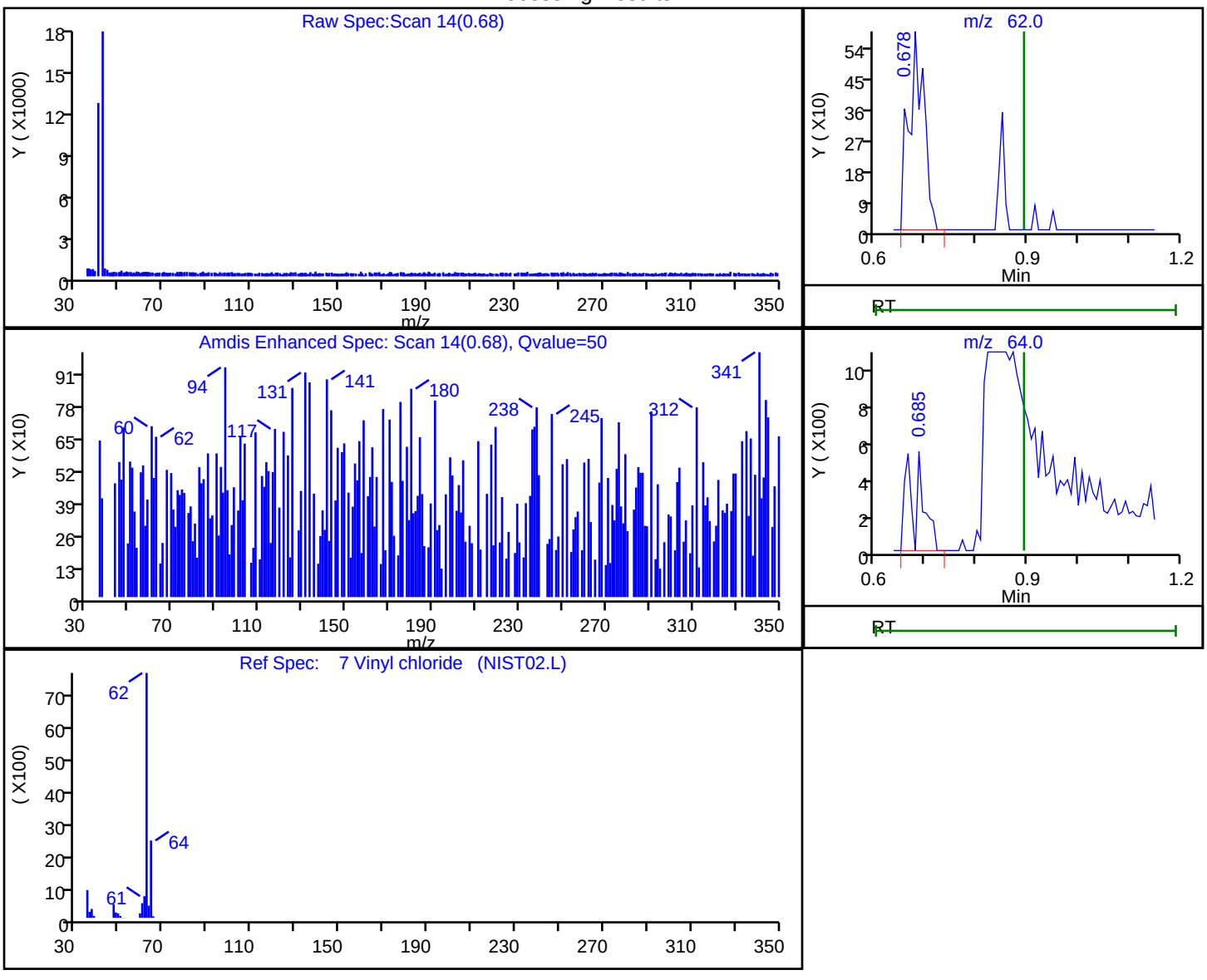
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D		
Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7
Client ID:	FB		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	1198	0.314575
0.68	64.00	1012	

Reviewer: moroneyc, 09-Sep-2020 07:01:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

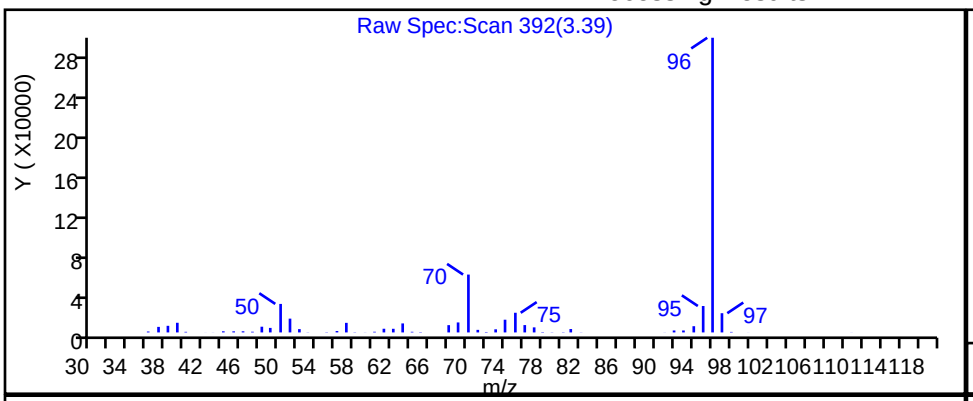
User Disabled Compound Report

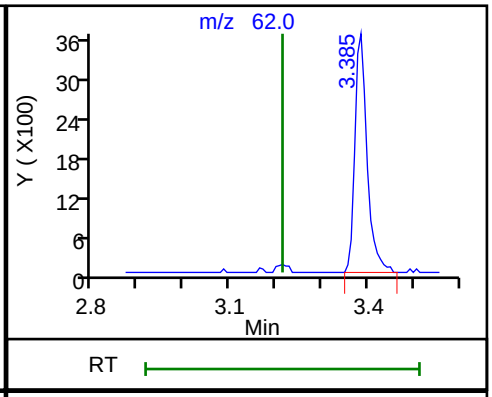
Eurofins TestAmerica, Edison

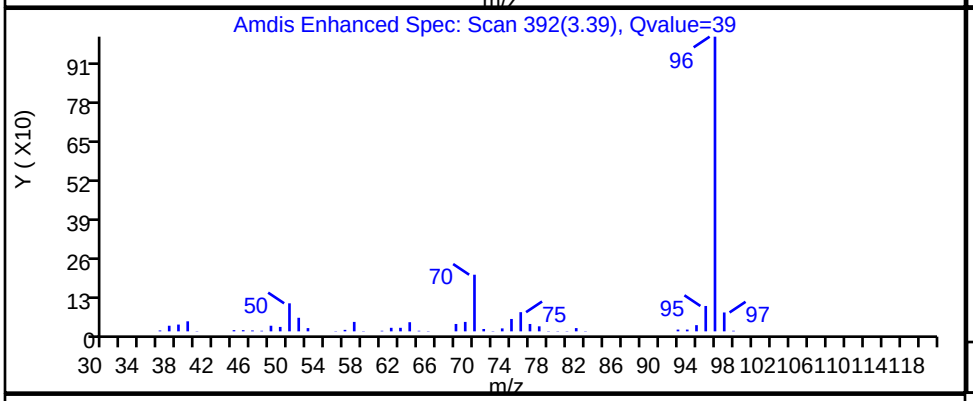
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79492.D		
Injection Date:	09-Sep-2020 02:49:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-7	Lab Sample ID:	460-217547-7
Client ID:	FB		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

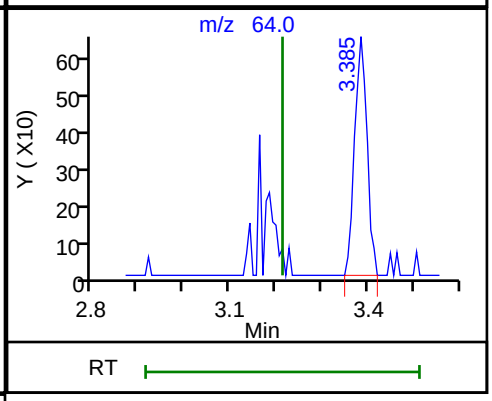
63 1,2-Dichloroethane, CAS: 107-06-2

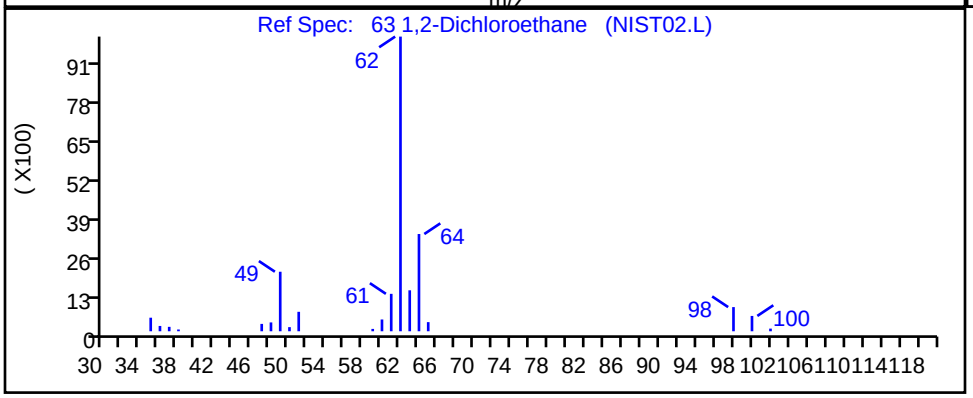
Processing Results











RT	Mass	Response	Amount
3.39	62.00	6861	2.223096
3.39	64.00	1228	

Reviewer: moroneyc, 09-Sep-2020 07:01:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 460-217547-8

Matrix: Water Lab File ID: P79489.D

Analysis Method: 8260C Date Collected: 09/02/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 01:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U *	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 460-217547-8

Matrix: Water Lab File ID: P79489.D

Analysis Method: 8260C Date Collected: 09/02/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 01:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-123
460-00-4	4-Bromofluorobenzene	99		76-120
1868-53-7	Dibromofluoromethane (Surr)	98		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 460-217547-8

Matrix: Water Lab File ID: P79489.D

Analysis Method: 8260C Date Collected: 09/02/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 01:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79489.D
Lims ID: 460-217547-A-8
Client ID: TB
Sample Type: Client
Inject. Date: 09-Sep-2020 01:38:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217547-A-8
Misc. Info.: 460-0116444-011
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 19:45:59 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: yallabg Date: 09-Sep-2020 01:14:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	99	101652	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	124453	48.9	
* 53 2-Butanone-d5	46	2.827	2.827	-0.001	100	126732	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	115948	45.4	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	590943	50.0	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	63	15259	1000.0	M
78 1,4-Dioxane	88	4.288	4.266	0.022	47	456	25.9	
$ 82 Toluene-d8 (Surr)	98	4.882	4.883	0.000	99	529167	49.6	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	413624	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	95	165743	49.5	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	221706	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

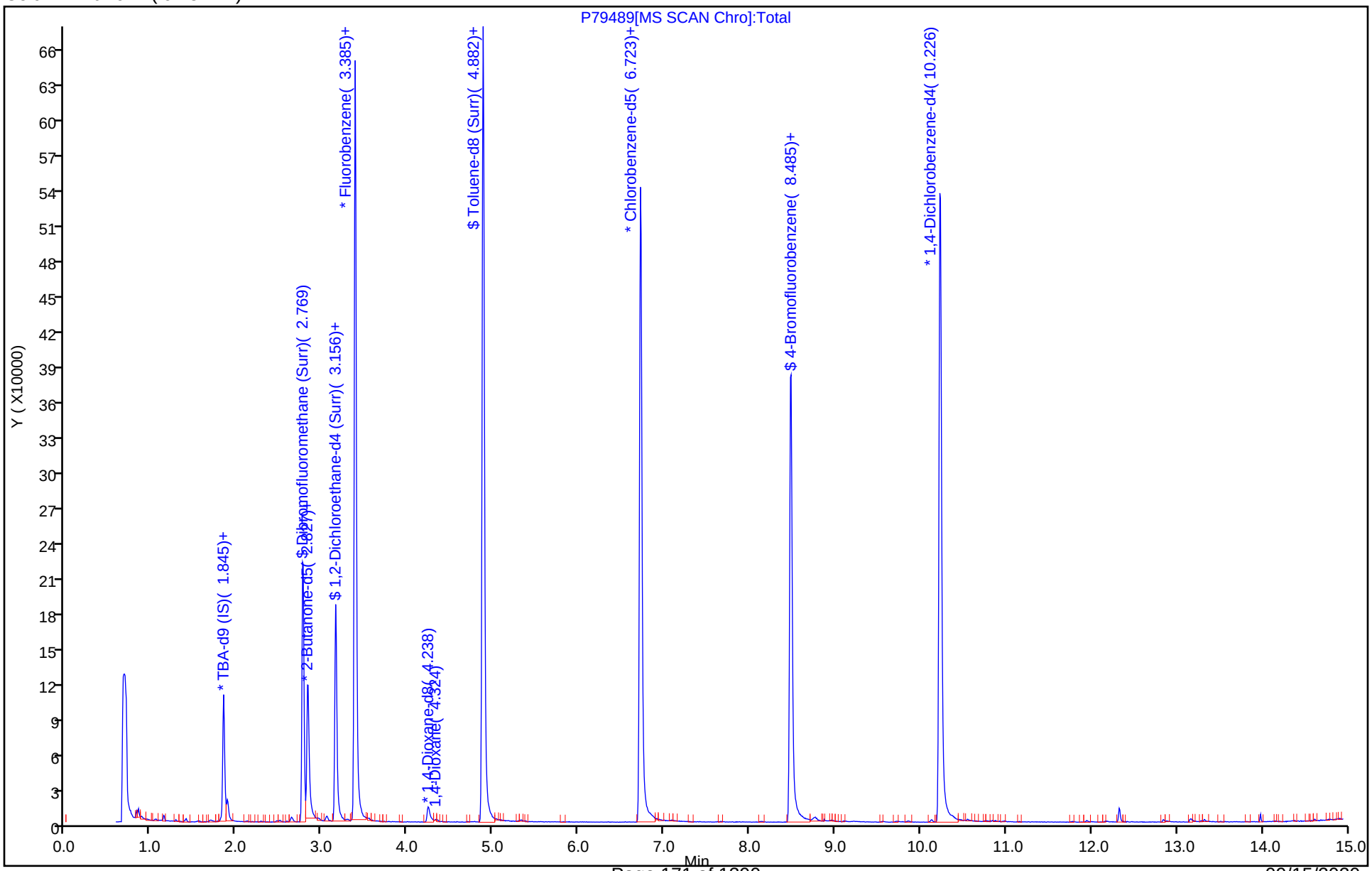
Report Date: 09-Sep-2020 19:45:59 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79489.D

Injection Date:	09-Sep-2020 01:38:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217547-A-8	Lab Sample ID:	460-217547-8	Worklist Smp#:	11
Client ID:	TB				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



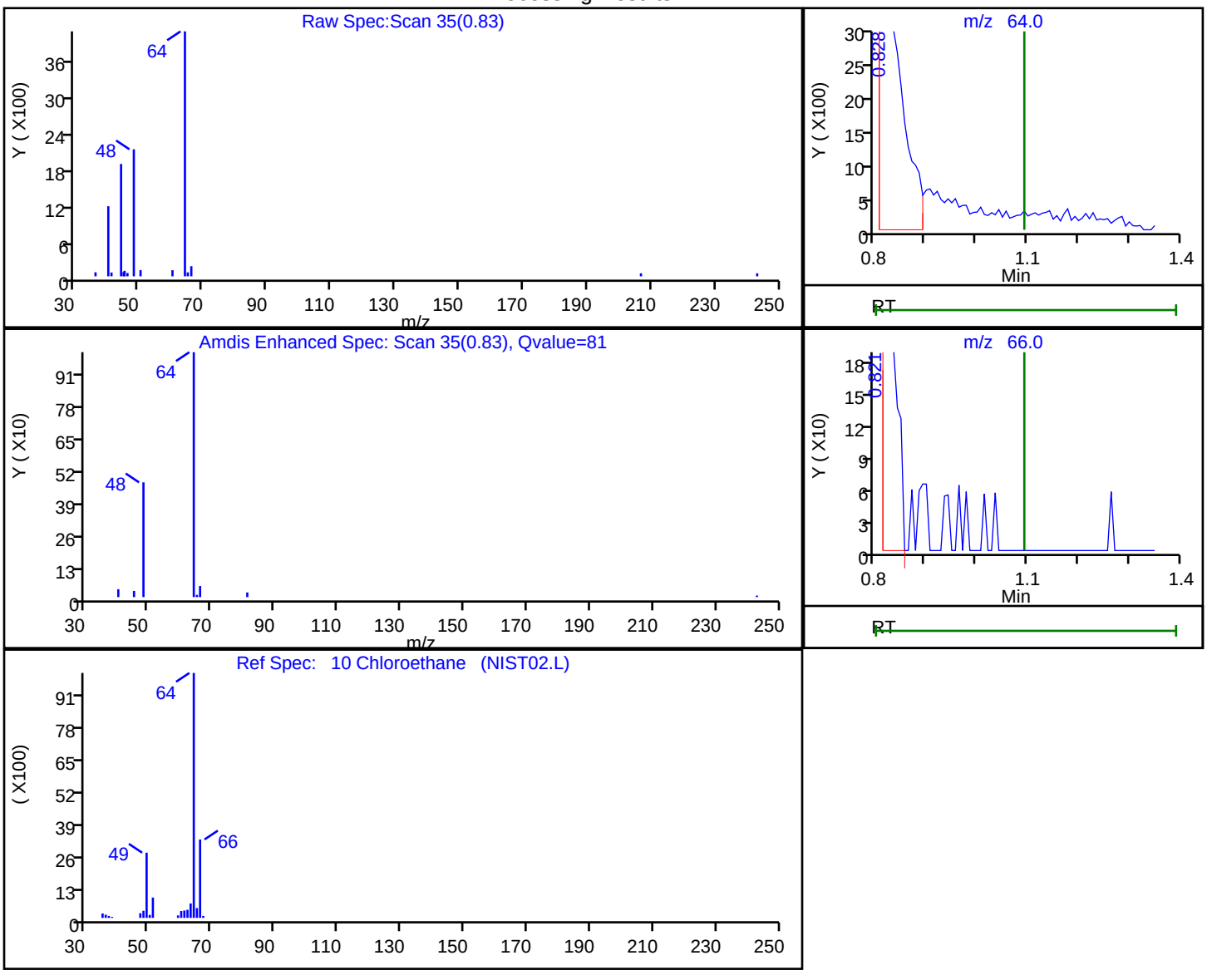
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79489.D		
Injection Date:	09-Sep-2020 01:38:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-8	Lab Sample ID:	460-217547-8
Client ID:	TB		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
0.83	64.00	9303	4.297186
0.82	66.00	368	

Reviewer: moroneyc, 09-Sep-2020 07:00:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

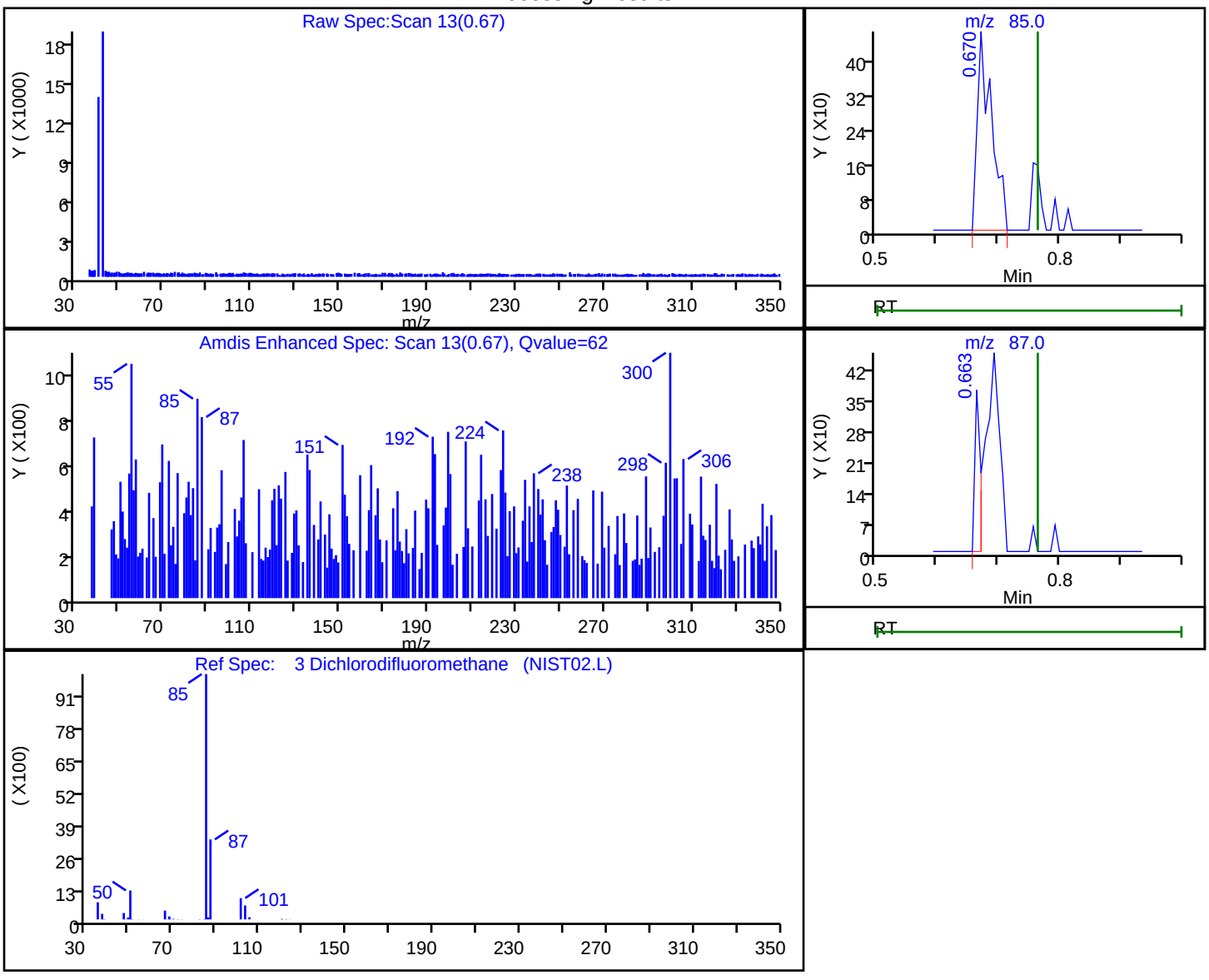
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79489.D		
Injection Date:	09-Sep-2020 01:38:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-8	Lab Sample ID:	460-217547-8
Client ID:	TB		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.67	85.00	762	0.191285
0.66	87.00	236	

Reviewer: moroneyc, 09-Sep-2020 07:00:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

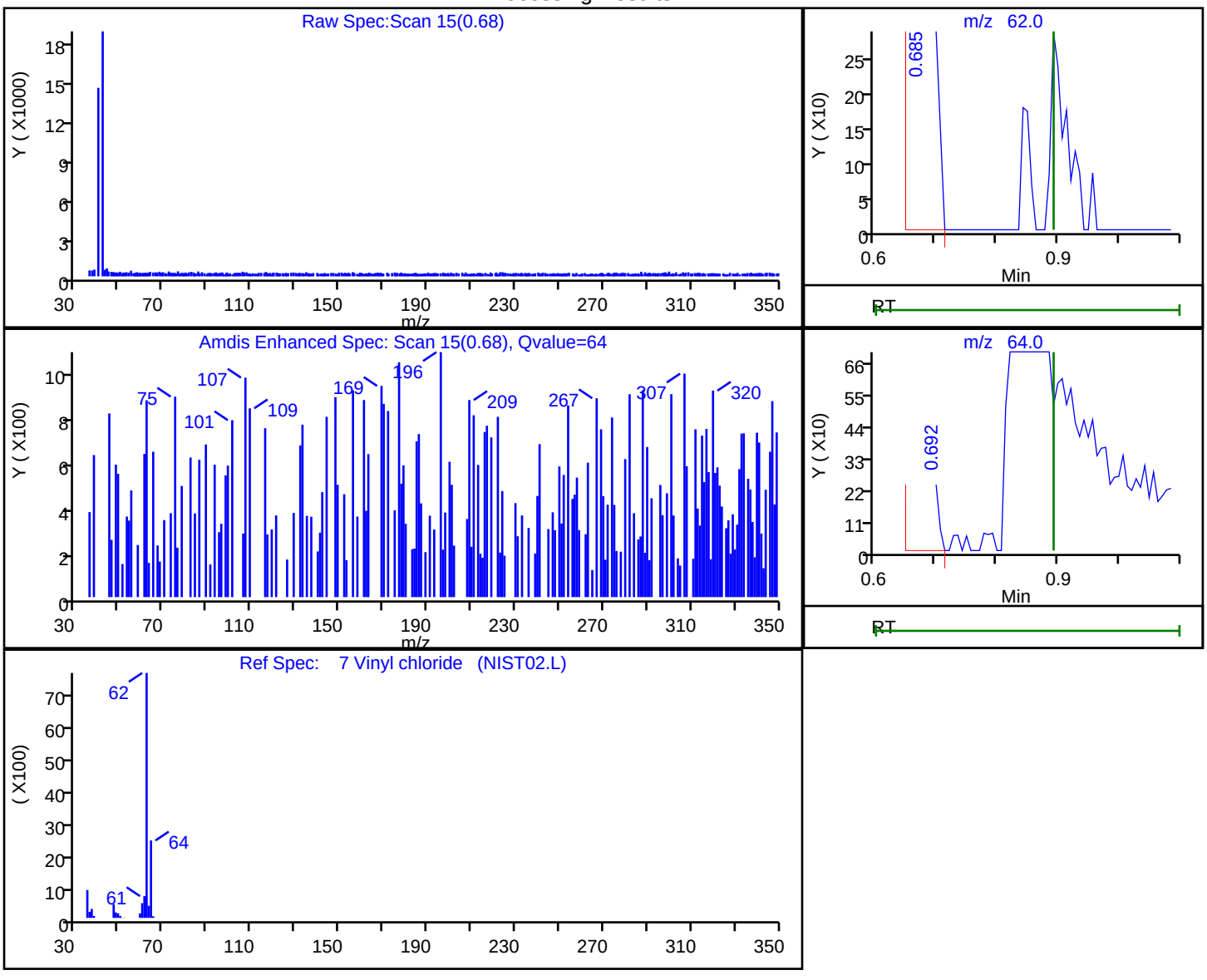
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79489.D		
Injection Date:	09-Sep-2020 01:38:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-8	Lab Sample ID:	460-217547-8
Client ID:	TB		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	710	0.174244
0.69	64.00	706	

Reviewer: moroneyc, 09-Sep-2020 07:00:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

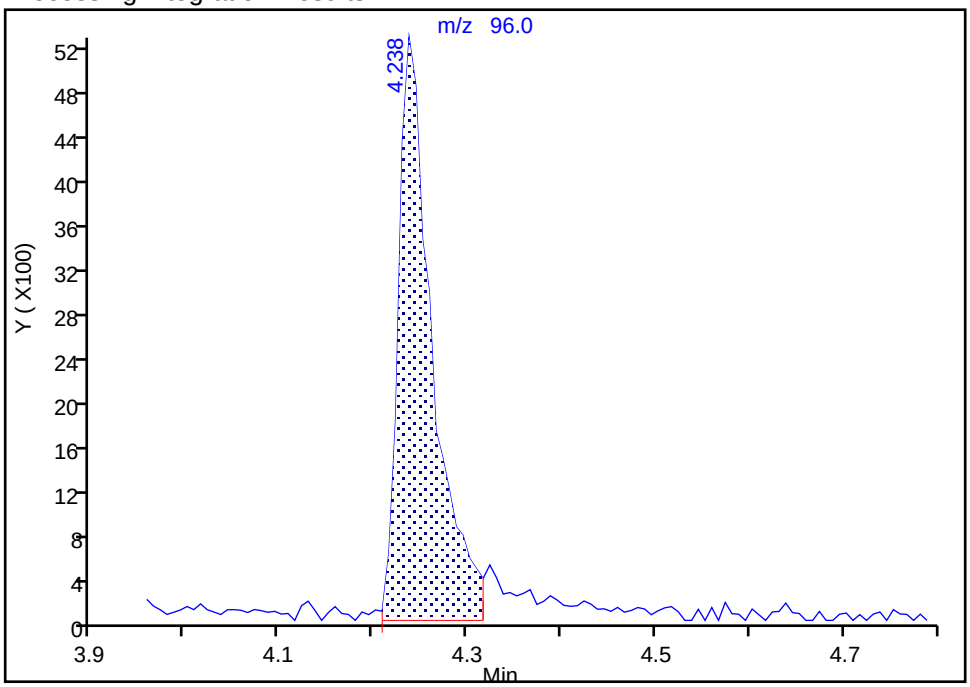
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79489.D		
Injection Date:	09-Sep-2020 01:38:30	Instrument ID:	CVOAMS13
Lims ID:	460-217547-A-8	Lab Sample ID:	460-217547-8
Client ID:	TB		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

* 76 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

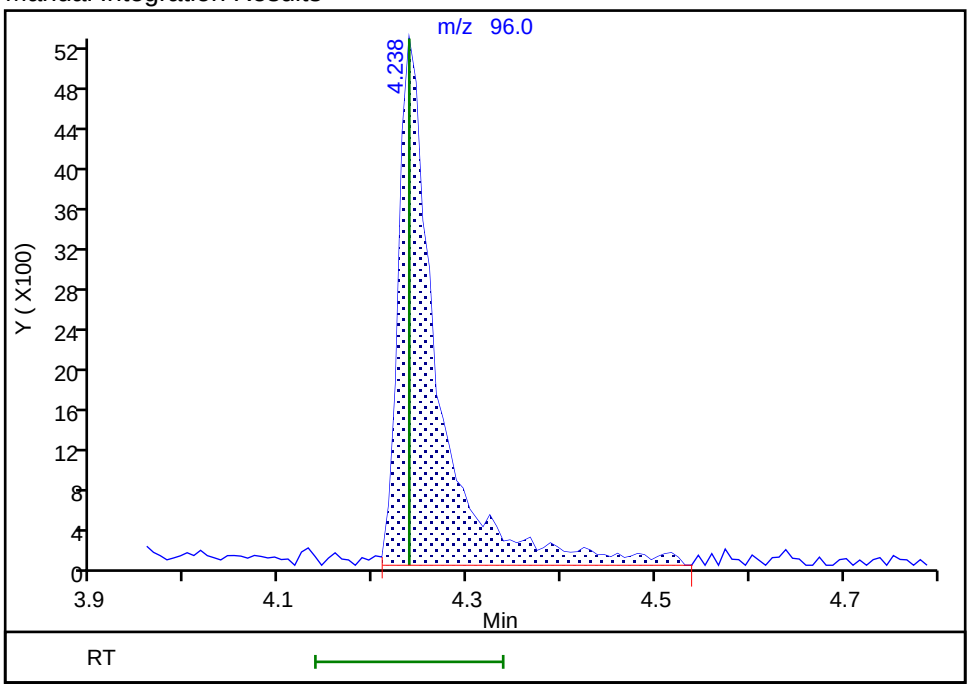
Processing Integration Results

RT: 4.24
Area: 13199
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 15259
Amount: 1000.0000
Amount Units: ug/l



Reviewer: xuyvo, 09-Sep-2020 19:45:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-721970/3	P79352.D
Level 2	STD1 460-721970/4	P79354.D
Level 3	STD5 460-721970/5	P79355.D
Level 4	STD20 460-721970/6	P79356.D
Level 5	STD50 460-721970/7	P79357.D
Level 6	STD200 460-721970/8	P79358.D
Level 7	STD500 460-721970/9	P79359.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Monochloropentafluoroethane	+++++ 0.0233	0.0241 0.0248	0.0197	0.0207	0.0197	Ave		0.0221				10.4		20.0			
Chlorotrifluoroethene	+++++ 0.0895	0.0735 0.0964	0.0654	0.0738	0.0723	Ave		0.0785				15.1		20.0			
Dichlorodifluoromethane	+++++ 0.3537	0.3490 0.3452	0.3112	0.3333	0.3299	Ave		0.3371			0.1000	4.6		20.0			
1,1-Difluoroethane	+++++ 0.1453	0.2164 0.1478	0.1510	0.1516	0.1465	Ave		0.1598				17.4		20.0			
Chlorodifluoromethane	+++++ 0.0441	0.0527 0.0462	0.0440	0.0449	0.0453	Ave		0.0462				7.1		20.0			
Butadiene	0.2961 0.3247	0.3328 0.3267	0.2778	0.3167	0.3177	Ave		0.3132				6.2		20.0			
Chloromethane	+++++ 0.4683	0.5186 0.4637	0.4635	0.4407	0.4685	Ave		0.4706			0.1000	5.5		20.0			
Vinyl chloride	+++++ 0.3426	0.3926 0.3393	0.3183	0.3318	0.3440	Ave		0.3448			0.1000	7.3		20.0			
Bromomethane	+++++ 2.9805	2.2164 2.9461	2.2933	2.5085	2.4052	Ave		2.5583			0.1000	12.9		20.0			
Chloroethane	+++++ 0.1835	0.1605 0.1558	0.2111	0.1999	0.1883	Ave		0.1832			0.1000	11.8		20.0			
Pentane	+++++ 4.5767	3.9693 4.1472	4.3381	4.7655	4.0283	Ave		4.3042				7.4		20.0			
Trichlorofluoromethane	+++++ 0.3322	0.3218 0.3258	0.2777	0.3072	0.3232	Ave		0.3147			0.1000	6.3		20.0			
Dichlorofluoromethane	+++++ 0.4150	0.4701 0.3877	0.4205	0.4160	0.4290	Ave		0.4231				6.4		20.0			
2-Methyl-1,3-butadiene	+++++ 0.3762	0.3440 0.3840	0.3351	0.3720	0.3614	Ave		0.3621				5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl ether	+++++ 0.1713	0.1662 0.1707	0.1701	0.1653	0.1697	Ave		0.1689				1.5		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.3267	0.3506 0.3318	0.3139	0.3300	0.3175	Ave		0.3284				3.9		20.0			
1,1-Dichloroethene	+++++ 0.2312	0.2356 0.2290	0.2122	0.2234	0.2188	Ave		0.2250			0.1000	3.8		20.0			
Ethanol	+++++ 0.0776	0.1106 0.0782	0.0748	0.0778	0.0788	Ave		0.0830				16.4		20.0			
Carbon disulfide	+++++ 0.8838	0.9751 0.8712	0.8478	0.8570	0.8467	Ave		0.8803			0.1000	5.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2326	0.2157 0.2273	0.2109	0.2235	0.2110	Ave		0.2202			0.1000	4.1		20.0			
1,1,1-Trifluoro-2,2-dichloroethane	+++++ 0.3453	0.3466 0.3549	0.3193	0.3421	0.3365	Ave		0.3408				3.6		20.0			
Iodomethane	+++++ 0.3680	0.1671 0.3632	0.1874	0.2283	0.2857	QuaF		0.3560	0.0000155						0.9990		0.9900
Cyclopentene	+++++ 0.6252	0.6663 0.6325	0.5728	0.6323	0.6115	Ave		0.6234				4.9		20.0			
Acrolein	+++++ 2.2178	1.9825 2.2476	1.4025	1.8826	1.9239	Ave		1.9428				15.7		20.0			
Allyl chloride	+++++ 0.1497	0.1516 0.1500	0.1378	0.1323	0.1414	Ave		0.1438				5.5		20.0			
Isopropyl alcohol	+++++ 0.7678	1.0806 0.7365	0.7977	0.7235	0.7367	Ave		0.8071				16.9		20.0			
Methylene Chloride	+++++ 0.2650	0.2937 0.2617	0.2745	0.2660	0.2665	Ave		0.2712			0.1000	4.3		20.0			
Acetone	+++++ 0.7423	1.0606 0.5961	0.7615	0.7450	0.7025	QuaF		0.8222	-0.000090		0.0500				1.0000		0.9900
trans-1,2-Dichloroethene	+++++ 0.2585	0.2681 0.2561	0.2530	0.2544	0.2544	Ave		0.2574			0.1000	2.2		20.0			
Methyl acetate	+++++ 9.1553	9.5638 9.0263	10.339	9.4395	10.939	Ave		9.7439			0.1000	7.6		20.0			
Hexane	+++++ 0.0687	0.0544 0.0674	0.0528	0.0677	0.0615	Ave		0.0621				11.4		20.0			
Methyl tert-butyl ether	+++++ 0.5321	0.5288 0.5232	0.5271	0.5150	0.5322	Ave		0.5264			0.1000	1.2		20.0			
2-Methyl-2-propanol	+++++ 1.1038	1.7792 1.1184	1.2246	1.1502	1.0799	QuaF		1.0933	0.0000050						1.0000		0.9900
Acetonitrile	+++++ 1.9185	2.0208 2.0033	2.1215	1.9176	2.0155	Ave		1.9995				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isopropyl ether	+++++ 0.8434	0.7753 0.8498	0.8082	0.8209	0.8457	Ave		0.8239				3.5		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2432	0.2251 0.2460	0.2269	0.2362	0.2377	Ave		0.2359				3.6		20.0			
1,1-Dichloroethane	+++++ 0.4770	0.5064 0.4730	0.4749	0.4642	0.4710	Ave		0.4778			0.2000	3.1		20.0			
Acrylonitrile	0.0576 0.0625	0.0629 0.0643	0.0635	0.0610	0.0616	Ave		0.0619				3.6		20.0			
Tert-butyl ethyl ether	+++++ 0.7027	0.6546 0.7067	0.6532	0.6639	0.6936	Ave		0.6791				3.6		20.0			
Vinyl acetate	+++++ 0.3834	0.3635 0.3798	0.3821	0.3314	0.3652	Ave		0.3676				5.4		20.0			
cis-1,2-Dichloroethene	+++++ 0.2849	0.3206 0.2832	0.2849	0.2653	0.2696	Ave		0.2848			0.1000	6.8		20.0			
2,2-Dichloropropane	+++++ 0.3254	0.3390 0.3200	0.3158	0.3168	0.3238	Ave		0.3235				2.6		20.0			
Cyclohexane	+++++ 0.5035	0.4728 0.4870	0.4528	0.4914	0.4626	Ave		0.4784			0.1000	4.0		20.0			
Chlorobromomethane	+++++ 0.1268	0.1274 0.1264	0.1246	0.1193	0.1223	Ave		0.1245				2.5		20.0			
Chloroform	+++++ 0.4294	0.4576 0.4217	0.4186	0.4179	0.4247	Ave		0.4283			0.2000	3.5		20.0			
Carbon tetrachloride	+++++ 0.2699	0.2562 0.2829	0.2267	0.2342	0.2451	Ave		0.2525			0.1000	8.5		20.0			
Ethyl acetate	+++++ 0.3419	0.2726 0.3237	0.3101	0.3592	0.3364	Ave		0.3240				9.3		20.0			
Methyl acrylate	+++++ 0.1447	0.1171 0.1482	0.1249	0.1342	0.1405	Ave		0.1349				8.9		20.0			
Tetrahydrofuran	+++++ 1.1391	1.1225 1.0709	1.1531	1.1732	1.1232	Ave		1.1303				3.1		20.0			
1,1,1-Trichloroethane	+++++ 0.3546	0.3548 0.3468	0.3239	0.3378	0.3474	Ave		0.3442			0.1000	3.4		20.0			
1,1-Dichloropropene	+++++ 0.3678	0.5770 0.3565	0.3887	0.3664	0.3575	QuaF		0.3731	-0.000033						1.0000		0.9900
2-Butanone (MEK)	+++++ 0.3793	0.3571 0.3460	0.3713	0.3792	0.3588	Ave		0.3653			0.0500	3.7		20.0			
2,2,4-Trimethylpentane	+++++ 0.8222	0.7002 0.8174	0.7145	0.7737	0.7019	Ave		0.7550				7.5		20.0			
n-Heptane	+++++ 0.1985	0.1832 0.1918	0.1723	0.1907	0.1756	Ave		0.1853				5.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	+++++ 1.5616	1.6632 1.4994	1.5103	1.5678	1.5633	Ave		1.5609			0.5000	3.7		20.0			
Propionitrile	+++++ 2.2508	1.9570 2.2497	2.0074	2.0662	2.2001	Ave		2.1219				6.1		20.0			
Methacrylonitrile	+++++ 0.0700	0.0608 0.0704	0.0698	0.0696	0.0713	Ave		0.0687				5.7		20.0			
Tert-amyl methyl ether	+++++ 0.5943	0.5097 0.6045	0.5508	0.5482	0.5832	Ave		0.5651				6.3		20.0			
1,2-Dichloroethane	+++++ 0.2709	0.3143 0.2663	0.2900	0.2610	0.2739	Ave		0.2794			0.1000	7.1		20.0			
Isobutyl alcohol	+++++ 0.5697	0.5064 0.6093	0.4942	0.5202	0.5084	Ave		0.5347				8.4		20.0			
Isopropyl acetate	+++++ 0.3195	0.3179 0.3201	0.3223	0.2894	0.3347	Ave		0.3173				4.7		20.0			
Methylcyclohexane	+++++ 0.4797	0.4096 0.4744	0.3979	0.4541	0.4320	Ave		0.4413			0.1000	7.7		20.0			
Trichloroethene	+++++ 0.2809	0.2686 0.2797	0.2538	0.2658	0.2706	Ave		0.2699			0.2000	3.7		20.0			
Dibromomethane	+++++ 0.1227	0.1071 0.1252	0.1258	0.1191	0.1223	Ave		0.1204				5.8		20.0			
n-Butanol	+++++ 0.3555	0.1161 0.3867	0.2493	0.2719	0.3031	QuaF		0.3280	0.0000047						1.0000		0.9900
1,2-Dichloropropane	+++++ 0.2789	0.2590 0.2754	0.2654	0.2660	0.2770	Ave		0.2703			0.1000	2.9		20.0			
Dichlorobromomethane	+++++ 0.3093	0.2768 0.3148	0.2853	0.2883	0.3044	Ave		0.2965			0.2000	5.1		20.0			
Ethyl acrylate	+++++ 0.2096	0.1003 0.2139	0.1466	0.1800	0.1969	Qua2	-0.088	0.1839	0.0000716						0.9960		0.9900
Methyl methacrylate	+++++ 0.0448	0.0319 0.0454	0.0362	0.0402	0.0431	Ave		0.0402				13.2		20.0			
1,4-Dioxane	+++++ 1.1186	1.1175 1.1773	1.1513	1.1719	1.1830	Ave		1.1533				2.5		20.0			
n-Propyl acetate	+++++ 0.2254	0.1669 0.2272	0.1801	0.2025	0.2177	Ave		0.2033				12.3		20.0			
2-Chloroethyl vinyl ether	+++++ 0.0614	+++++ 0.0825	0.0289	0.0340	0.0489	Ave		0.0511				42.4	*	20.0			
cis-1,3-Dichloropropene	+++++ 0.5581	0.4610 0.5630	0.4458	0.4953	0.5451	Ave		0.5114			0.2000	10.0		20.0			
Toluene	+++++ 1.5924	1.6604 1.5537	1.5508	1.5716	1.5873	Ave		1.5860			0.4000	2.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Epichlorohydrin	+++++ 0.1124	0.0385 0.1498	0.0415	0.0612	0.0841	QuaF		0.0854	0.0000064						1.0000		0.9900
2-Nitropropane	+++++ 0.0283	0.0276 0.0324	0.0233	0.0227	0.0266	Ave		0.0268				13.3		20.0			
Tetrachloroethene	+++++ 0.3815	0.3981 0.3767	0.3542	0.3589	0.3722	Ave		0.3736			0.2000	4.3		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.7730	2.1966 2.5332	2.5768	2.7654	2.6722	Ave		2.5862			0.0500	8.3		20.0			
trans-1,3-Dichloropropene	+++++ 0.4543	0.3079 0.4706	0.3618	0.4055	0.4386	Ave		0.4064			0.1000	15.2		20.0			
1,1,2-Trichloroethane	+++++ 0.2236	0.2081 0.2234	0.2065	0.2139	0.2222	Ave		0.2163			0.1000	3.6		20.0			
Ethyl methacrylate	+++++ 0.2373	0.1650 0.2373	0.1979	0.2111	0.2254	Ave		0.2123				13.1		20.0			
Chlorodibromomethane	+++++ 0.2937	0.2775 0.2985	0.2546	0.2694	0.2807	Ave		0.2791			0.1000	5.8		20.0			
1,3-Dichloropropane	+++++ 0.4561	0.4124 0.4589	0.4473	0.4552	0.4710	Ave		0.4502				4.4		20.0			
Ethylene Dibromide	+++++ 0.2513	0.2025 0.2527	0.1985	0.2395	0.2499	Ave		0.2324			0.1000	10.8		20.0			
n-Butyl acetate	+++++ 0.3542	0.1767 0.3472	0.2576	0.2956	0.3239	Qua2	-0.137	0.3088	0.0000996						0.9970		0.9900
2-Hexanone	+++++ 1.9489	1.2726 1.7814	1.6291	1.9212	1.8601	Ave		1.7356			0.0500	14.6		20.0			
Chlorobenzene	+++++ 0.9978	1.0150 0.9806	0.9979	0.9757	0.9939	Ave		0.9935			0.5000	1.4		20.0			
Ethylbenzene	+++++ 0.5591	0.5643 0.5614	0.5490	0.5493	0.5579	Ave		0.5568			0.1000	1.1		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3250	0.2708 0.3300	0.2909	0.3023	0.3263	Ave		0.3075				7.7		20.0			
m-Xylene & p-Xylene	+++++ 0.6950	0.5297 0.6778	0.6500	0.6823	0.6836	Ave		0.6531			0.1000	9.5		20.0			
o-Xylene	+++++ 0.6672	0.6813 0.6448	0.6465	0.6538	0.6710	Ave		0.6608			0.3000	2.2		20.0			
Bromoform	+++++ 0.1672	0.1443 0.1733	0.1508	0.1476	0.1629	Ave		0.1577			0.1000	7.5		20.0			
Styrene	+++++ 1.1070	0.9763 1.0769	0.9835	1.0858	1.1141	Ave		1.0573			0.3000	5.8		20.0			
n-Butyl acrylate	+++++ 0.2012	0.1110 0.2016	0.1527	0.1767	0.1849	Qua2	-0.071	0.1794	0.0000542						0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isopropylbenzene	+++++ 1.7223	1.7494 1.6527	1.6817	1.7415	1.7342	Ave		1.7136			0.1000	2.2		20.0			
Amyl acetate (mixed isomers)	+++++ 0.8344	0.4519 0.8550	0.5717	0.7364	0.7858	Qua2	-0.298	0.7314	0.0002933						0.9940		0.9900
Bromobenzene	+++++ 0.7645	0.6666 0.7718	0.7462	0.7324	0.7526	Ave		0.7390				5.2		20.0			
N-Propylbenzene	+++++ 3.8798	3.4711 3.7467	3.5497	3.7816	3.7568	Ave		3.6976				4.2		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5309	0.4552 0.5400	0.5038	0.5097	0.5358	Ave		0.5126			0.3000	6.2		20.0			
2-Chlorotoluene	+++++ 2.5648	2.8019 2.5518	2.3668	2.5067	2.4977	Ave		2.5483				5.6		20.0			
4-Ethyltoluene	+++++ 3.2097	2.9099 3.2458	2.8937	3.0909	3.0838	Ave		3.0723				4.8		20.0			
1,2,3-Trichloropropane	+++++ 0.1453	0.1000 0.1444	0.1403	0.1405	0.1431	Ave		0.1356				12.9		20.0			
1,3,5-Trimethylbenzene	+++++ 2.6873	2.3909 2.6398	2.5051	2.5758	2.5836	Ave		2.5637				4.1		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1202	+++++ 0.1358	0.0558	0.0820	0.0957	Ave		0.0979				32.1	*	20.0			
4-Chlorotoluene	+++++ 2.3584	1.9675 2.3246	2.2205	2.2751	2.2885	Ave		2.2391				6.3		20.0			
tert-Butylbenzene	+++++ 2.2832	2.2491 2.2296	2.0966	2.2323	2.2134	Ave		2.2174				2.9		20.0			
1,2,4-Trimethylbenzene	+++++ 2.7600	2.5171 2.7243	2.5269	2.6715	2.6679	Ave		2.6446				3.8		20.0			
Butyl Methacrylate	+++++ 0.8383	0.4786 0.8868	0.6084	0.7051	0.7606	Qua2	-0.250	0.7167	0.0003825						0.9970		0.9900
sec-Butylbenzene	+++++ 3.4524	3.3664 3.3520	3.2503	3.4140	3.3646	Ave		3.3666				2.0		20.0			
1,3-Dichlorobenzene	+++++ 1.5317	1.3657 1.5290	1.3842	1.4642	1.4843	Ave		1.4599			0.6000	4.9		20.0			
4-Isopropyltoluene	+++++ 2.9656	2.7530 2.9206	2.6193	2.9023	2.8793	Ave		2.8400				4.6		20.0			
1,4-Dichlorobenzene	+++++ 1.5251	1.6168 1.5147	1.5341	1.5102	1.5204	Ave		1.5369			0.5000	2.6		20.0			
1,2,3-Trimethylbenzene	+++++ 2.7143	2.6022 2.7348	2.6213	2.6951	2.7110	Ave		2.6798				2.0		20.0			
Indan	+++++ 2.6223	2.6471 2.6250	2.5024	2.5992	2.6059	Ave		2.6003				2.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzyl chloride	+++++ 0.1971	0.0815 0.2122	0.1168	0.1481	0.1814	Qua2	-0.081	0.1571	0.0001256						0.9910		0.9900
p-Diethylbenzene	+++++ 1.5089	1.3728 1.5167	1.3147	1.4281	1.4454	Ave		1.4311				5.5		20.0			
n-Butylbenzene	+++++ 2.7109	2.4320 2.6241	2.4731	2.6543	2.6419	Ave		2.5894				4.3		20.0			
1,2-Dichlorobenzene	+++++ 1.3971	1.2563 1.3917	1.2874	1.3162	1.3682	Ave		1.3361			0.4000	4.4		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 2.6714	2.1245 2.6503	2.3092	2.5583	2.6410	Ave		2.4925				9.0		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0907	0.0657 0.0941	0.0765	0.0882	0.0966	Ave		0.0853			0.0500	13.9		20.0			
1,3,5-Trichlorobenzene	+++++ 1.0932	0.9022 1.1128	1.0524	1.0822	1.1150	Ave		1.0597				7.6		20.0			
1,2,4-Trichlorobenzene	+++++ 0.9111	0.8164 0.9316	0.8558	0.8904	0.9314	Ave		0.8895			0.2000	5.1		20.0			
Hexachlorobutadiene	+++++ 0.3946	0.4328 0.3900	0.3705	0.3908	0.3781	Ave		0.3928				5.5		20.0			
Naphthalene	+++++ 1.5495	2.0068 1.5794	1.5061	1.5683	1.6344	Ave		1.6408				11.2		20.0			
1,2,3-Trichlorobenzene	+++++ 0.7246	0.7467 0.7389	0.6922	0.7258	0.7392	Ave		0.7279				2.7		20.0			
Dibromofluoromethane (Surr)	0.2171 0.2158	0.2175 0.2146	0.2183	0.2114	0.2126	Ave		0.2153				1.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2120 0.2048	0.2163 0.2157	0.2182	0.2160	0.2300	Ave		0.2161				3.5		20.0			
Toluene-d8 (Surr)	1.3119 1.2898	1.2924 1.2643	1.2984	1.2888	1.2810	Ave		1.2895				1.1		20.0			
4-Bromofluorobenzene	0.3925 0.3990	0.4167 0.3907	0.4134	0.4075	0.4136	Ave		0.4048				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-721970/3	P79352.D
Level 2	STD1 460-721970/4	P79354.D
Level 3	STD5 460-721970/5	P79355.D
Level 4	STD20 460-721970/6	P79356.D
Level 5	STD50 460-721970/7	P79357.D
Level 6	STD200 460-721970/8	P79358.D
Level 7	STD500 460-721970/9	P79359.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Monochloropentafluoroethane	FB	Ave	+++++ 55399	260 153563	1081	4726	11186	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorotrifluoroethene	FB	Ave	+++++ 213205	792 597178	3587	16846	41027	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 842683	3758 2138983	17078	76055	187202	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Difluoroethane	FB	Ave	+++++ 346160	2330 915944	8287	34592	83104	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorodifluoromethane	FB	Ave	+++++ 104936	567 286055	2413	10240	25723	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	817 773489	3584 2024494	15246	72263	180254	0.250 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1115644	5585 2873454	25436	100553	265854	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 816164	4228 2102724	17466	75711	195179	+++++ 200	1.00 500	5.00	20.0	50.0
Bromomethane	BUT	Ave	+++++ 381620	1317 1058616	6734	28668	74861	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 437022	1728 965466	11587	45616	106827	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 213875	933 510382	4966	21238	47651	+++++ 400	2.00 1000	10.0	40.0	100
Trichlorofluoromethane	FB	Ave	+++++ 791377	3466 2018986	15241	70080	183391	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 988703	5062 2402602	23079	94922	243460	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 896070	3704 2379512	18393	84871	205064	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 408174	1790 1057648	9337	37723	96289	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 778229	3776 2055897	17228	75300	180162	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 550740	2537 1418804	11646	50980	124171	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd9	Ave	+++++ 72547	520 192362	1713	6934	18644	+++++ 8000	40.0 20000	200	800	2000
Carbon disulfide	FB	Ave	+++++ 2105421	10501 5398702	46527	195533	480480	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 554137	2323 1408561	11574	50985	119706	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	+++++ 822579	3732 2199434	17523	78053	190942	+++++ 200	1.00 500	5.00	20.0	50.0
Iodomethane	FB	QuaF	+++++ 876527	1799 2250918	10285	52089	162100	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclopentene	FB	Ave	+++++ 1489341	7175 3919618	31435	144269	346990	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd9	Ave	+++++ 51820	932 110641	3211	8390	22758	+++++ 200	4.00 400	20.0	40.0	100
Allyl chloride	FB	Ave	+++++ 356679	1633 929413	7562	30186	80220	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 179401	1270 453215	4566	16121	43572	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 631304	3163 1621460	15063	60699	151225	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	QuaF	+++++ 475188	3151 1071045	11181	42570	109326	+++++ 1000	5.00 2500	25.0	100	250
trans-1,2-Dichloroethene	FB	Ave	+++++ 615832	2887 1586745	13885	58053	144381	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	TBAd9	Ave	+++++ 427833	2248 1110827	11836	42068	129401	+++++ 400	2.00 1000	10.0	40.0	100
Hexane	FB	Ave	+++++ 163677	586 417628	2899	15447	34872	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl tert-butyl ether	FB	Ave	+++++ 1267437	5695 3242233	28926	117508	302014	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	QuaF	+++++ 257906	2091 688184	7009	25630	63871	+++++ 2000	10.0 5000	50.0	200	500
Acetonitrile	TBAd9	Ave	+++++ 448269	2375 1232698	12143	42730	119206	+++++ 2000	10.0 5000	50.0	200	500
Isopropyl ether	FB	Ave	+++++ 2009218	8349 5266152	44353	187280	479907	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 579320	2424 1524691	12452	53898	134890	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1-Dichloroethane	FB	Ave	+++++ 1136397	5453 2930827	26065	105914	267263	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	1272 1488785	6770 3986357	34857	139063	349337	2.00 2000	10.0 5000	50.0	200	500
Tert-butyl ethyl ether	FB	Ave	+++++ 1673940	7049 4379554	35847	151474	393578	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	+++++ 1826519	7828 4707045	41944	151225	414482	+++++ 400	2.00 1000	10.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	+++++ 678589	3453 1754817	15638	60535	152965	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	Ave	+++++ 775196	3651 1983171	17330	72273	183711	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1199483	5092 3017859	24852	112116	262475	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobromomethane	FB	Ave	+++++ 302079	1372 783070	6839	27217	69379	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroform	FB	Ave	+++++ 1022953	4928 2613155	22972	95335	241017	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 642971	2759 1753099	12442	53428	139102	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 87559	324 232661	1821	8210	20943	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 344589	1261 918247	6855	30616	79700	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 291683	1334 769588	6772	26816	69916	+++++ 400	2.00 1000	10.0	40.0	100
1,1,1-Trichloroethane	FB	Ave	+++++ 844830	3821 2148975	17778	77080	197131	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	QuaF	+++++ 876224	6214 2209037	21330	83603	202888	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 242797	1061 621699	5452	21668	55843	+++++ 1000	5.00 2500	25.0	100	250
2,2,4-Trimethylpentane	FB	Ave	+++++ 1958645	7540 5065144	39210	176521	398266	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 472746	1973 1188377	9455	43511	99655	+++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZ d5	Ave	+++++ 2668664	12509 6741611	58103	248383	623917	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd 9	Ave	+++++ 525916	2300 1384313	11490	46041	130125	+++++ 2000	10.0 5000	50.0	200	500
Methacrylonitrile	FB	Ave	+++++ 1667489	6544 4364305	38315	158756	404787	+++++ 2000	10.0 5000	50.0	200	500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-amyl methyl ether	FB	Ave	+++++ 1415698	5489 3745941	30230	125065	330913	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 645223	3385 1650015	15916	59557	155414	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Ave	+++++ 332754	1488 937256	7071	28978	75173	+++++ 5000	25.0 12500	125	500	1250
Isopropyl acetate	FB	Ave	+++++ 761069	3423 1983357	17689	66033	189901	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 1142664	4411 2940010	21835	103611	245162	+++++ 200	1.00 500	5.00	20.0	50.0
Trichloroethene	FB	Ave	+++++ 669215	2893 1733049	13926	60650	153554	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 292356	1153 776124	6905	27162	69397	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd9	QuaF	+++++ 207653	341 594810	3568	15148	44814	+++++ 5000	25.0 12500	125	500	1250
1,2-Dichloropropane	FB	Ave	+++++ 664337	2789 1706920	14565	60700	157156	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	+++++ 736764	2981 1950550	15658	65786	172749	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Qua2	+++++ 499304	1080 1325732	8046	41058	111737	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 213231	686 562331	3972	18324	48928	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 72363	890 196250	1785	6975	18706	+++++ 4000	50.0 10000	100	400	1000
n-Propyl acetate	FB	Ave	+++++ 536909	1797 1407703	9882	46190	123542	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 146693	+++++ 512328	1592	7768	27833	+++++ 200	+++++ 501	5.01	20.0	50.1
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 953812	3467 2531452	17150	78477	217536	+++++ 200	1.00 500	5.00	20.0	50.0
Toluene	CBNZ d5	Ave	+++++ 2721314	12488 6985837	59660	248986	633484	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	QuaF	+++++ 287832	457 1076562	2440	13992	52334	+++++ 4000	20.0 10000	100	400	1000
2-Nitropropane	FB	Ave	+++++ 134976	595 401764	2558	10374	30161	+++++ 400	2.00 1000	10.0	40.0	100
Tetrachloroethene	CBNZ d5	Ave	+++++ 651928	2994 1693883	13625	56857	148555	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 1775270	6526 4551250	37833	158019	415853	+++++ 1000	5.00 2500	25.0	100	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 776364	2316 2115743	13917	64238	175032	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 382089	1565 1004352	7946	33891	88686	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	FB	Ave	+++++ 565187	1777 1470388	10862	48156	127890	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorodibromomethane	CBNZ d5	Ave	+++++ 501890	2087 1342232	9794	42676	112017	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 779411	3102 2063481	17208	72110	187991	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylene Dibromide	CBNZ d5	Ave	+++++ 429394	1523 1136144	7636	37940	99746	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZ d5	Qua2	+++++ 605244	1329 1561177	9910	46824	129286	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Ave	+++++ 1247693	3781 3200586	23919	109780	289479	+++++ 1000	5.00 2500	25.0	100	250
Chlorobenzene	CBNZ d5	Ave	+++++ 1705190	7634 4409049	38391	154586	396659	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 955498	4244 2523965	21119	87032	222648	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 555386	2037 1483682	11192	47888	130225	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1187799	3984 3047634	25007	108099	272822	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 1140173	5124 2899229	24870	103586	267785	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 285754	1085 779054	5800	23389	65010	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 1891908	7343 4841761	37835	172023	444655	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Qua2	+++++ 343856	835 906398	5873	27988	73809	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 2943384	13158 7430702	64696	275910	692109	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Qua2	+++++ 774550	1912 2050851	12401	65023	176787	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 709661	2820 1851197	16184	64671	169325	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 3601702	14685 8986684	76993	333905	845216	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 492837	1926 1295322	10928	45006	120554	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chlorotoluene	DCBd 4	Ave	+++++ 2380971	11854 6120662	51336	221339	561931	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 2979644	12311 7785180	62764	272920	693783	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 134903	423 346260	3042	12409	32185	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 2494661	10115 6331744	54335	227437	581260	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 111606	+++++ 325652	1211	7238	21533	+++++ 200	+++++ 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 2189374	8324 5575558	48163	200889	514860	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 2119520	9515 5347740	45475	197112	497969	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2562120	10649 6534418	54807	235892	600215	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Qua2	+++++ 778176	2025 2127034	13195	62255	171118	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 3204917	14242 8040037	70498	301449	756973	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1421890	5778 3667475	30024	129288	333939	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 2753070	11647 7005086	56813	256268	647792	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1415792	6840 3633198	33274	133344	342051	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 2519702	11009 6559615	56856	237975	609921	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 2434293	11199 6296307	54276	229507	586285	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Qua2	+++++ 182937	345 508966	2533	13077	40821	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 1400739	5808 3637762	28516	126096	325177	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 2516592	10289 6293963	53640	234371	594378	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1296949	5315 3338000	27923	116216	307828	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 2479879	8988 6356940	50087	225892	594174	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 84236	278 225792	1659	7792	21742	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1 Analy Batch No.: 721970

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 14:09 Calibration End Date: 09/04/2020 16:58 Calibration ID: 81791

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1014884	3817 2669157	22827	95559	250860	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 845782	3454 2234541	18563	78620	209542	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 366310	1831 935397	8036	34508	85054	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 1438478	8490 3788295	32667	138476	367710	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 672673	3159 1772317	15014	64083	166305	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	119790 128526	117139 132990	119812	120577	120630	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	116973 121939	116479 133687	119732	123183	130501	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	501267 551075	486030 568428	499494	510468	511255	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	149964 170465	156709 175673	159019	161410	165058	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 04-Sep-2020 14:09:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Misc. Info.: 460-0116303-003
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:37:50 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: starzecm Date: 04-Sep-2020 13:40:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Butadiene	54	0.885	0.892	-0.007	90	817	0.2500	0.2364	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	100	116556	1000.0	1000.0	
39 Acrylonitrile	53	2.160	2.153	0.007	99	1272	2.00	1.86	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	98	119790	50.0	50.4	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	99	138595	250.0	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	116973	50.0	49.0	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	551813	50.0	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	13879	1000.0	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	501267	50.0	50.9	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	382078	50.0	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	93	149964	50.0	48.5	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	95	203372	50.0	50.0	

Reagents:

8260MIX1COMB_00125	Amount Added:	0.00	Units: uL	
ACROLEIN W_00112	Amount Added:	0.00	Units: uL	
GASES Li_00384	Amount Added:	2.50	Units: uL	
GAS Hi_00370	Amount Added:	0.00	Units: uL	
8FreonHi_00023	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00077	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00102	Amount Added:	0.00	Units: uL	
Ethanol mix_00043	Amount Added:	0.00	Units: uL	
14DIOXINTER_00118	Amount Added:	0.00	Units: uL	
524freon_00027	Amount Added:	0.00	Units: uL	
MIX I Hi_00129	Amount Added:	0.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

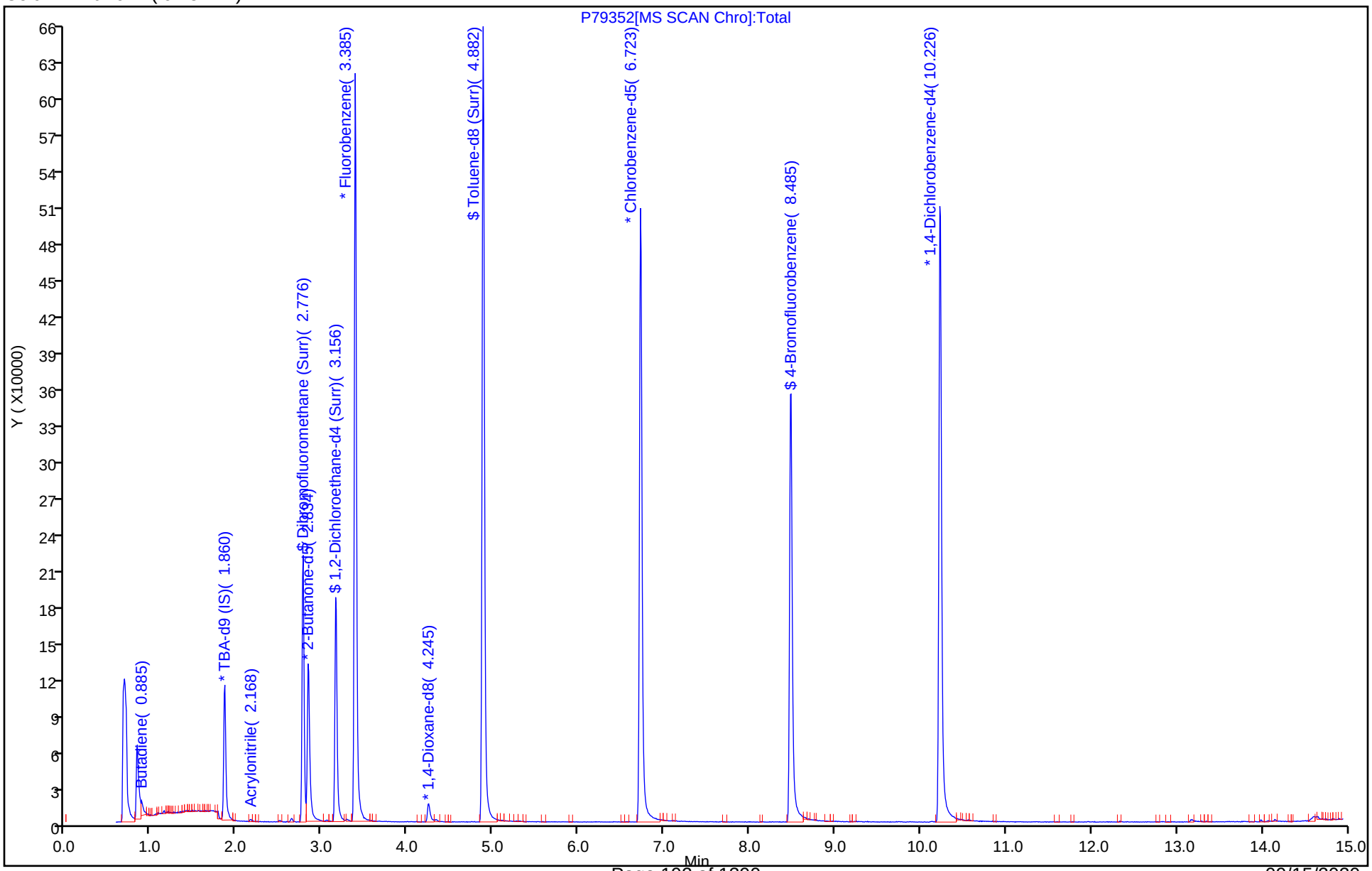
Report Date: 10-Sep-2020 10:37:52 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D

Injection Date:	04-Sep-2020 14:09:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	STD8			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



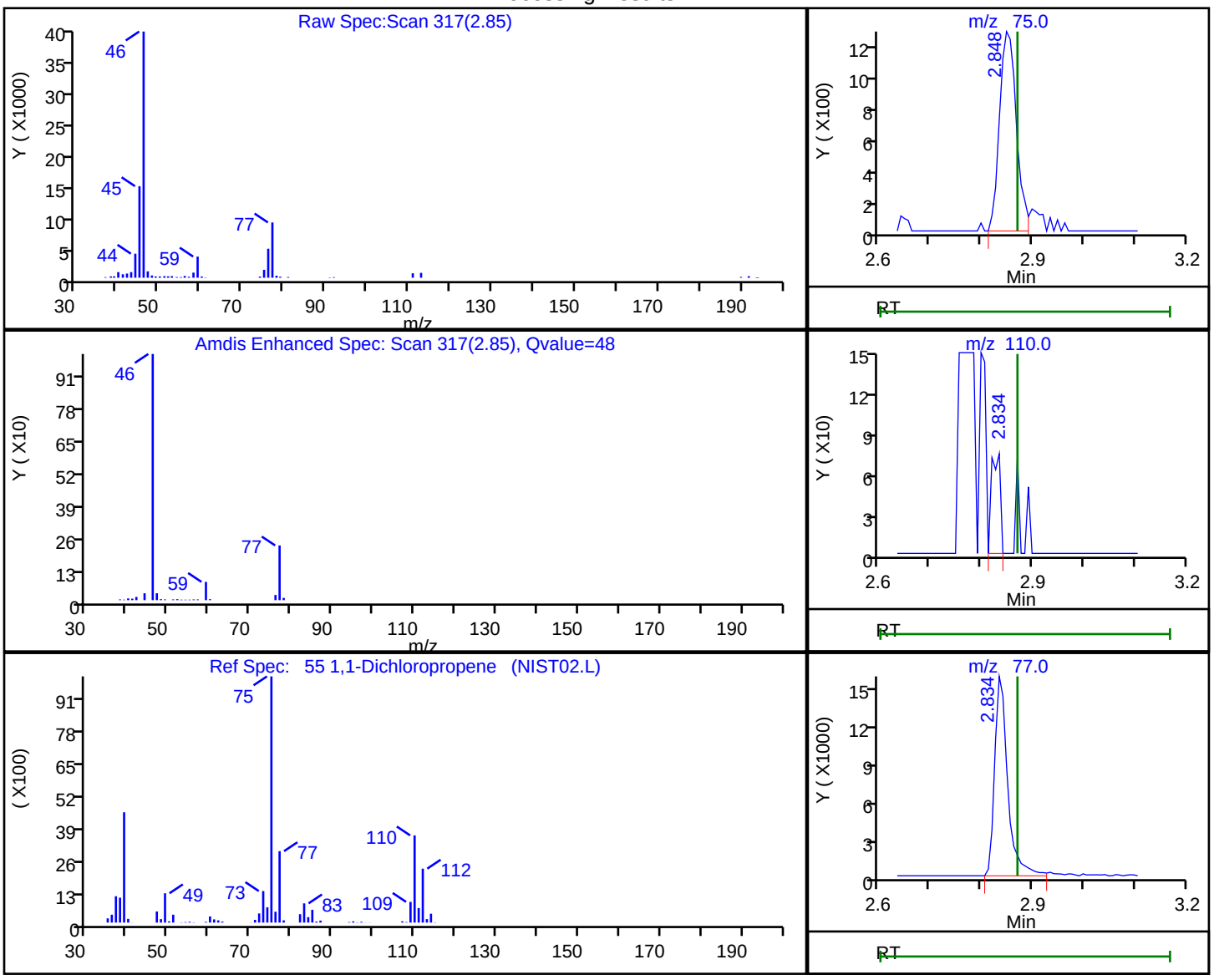
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

55 1,1-Dichloropropene, CAS: 563-58-6

Processing Results



RT	Mass	Response	Amount
2.85	75.00	2901	0.704631
2.83	110.00	90	
2.83	77.00	28656	

Reviewer: boykink, 05-Sep-2020 00:03:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

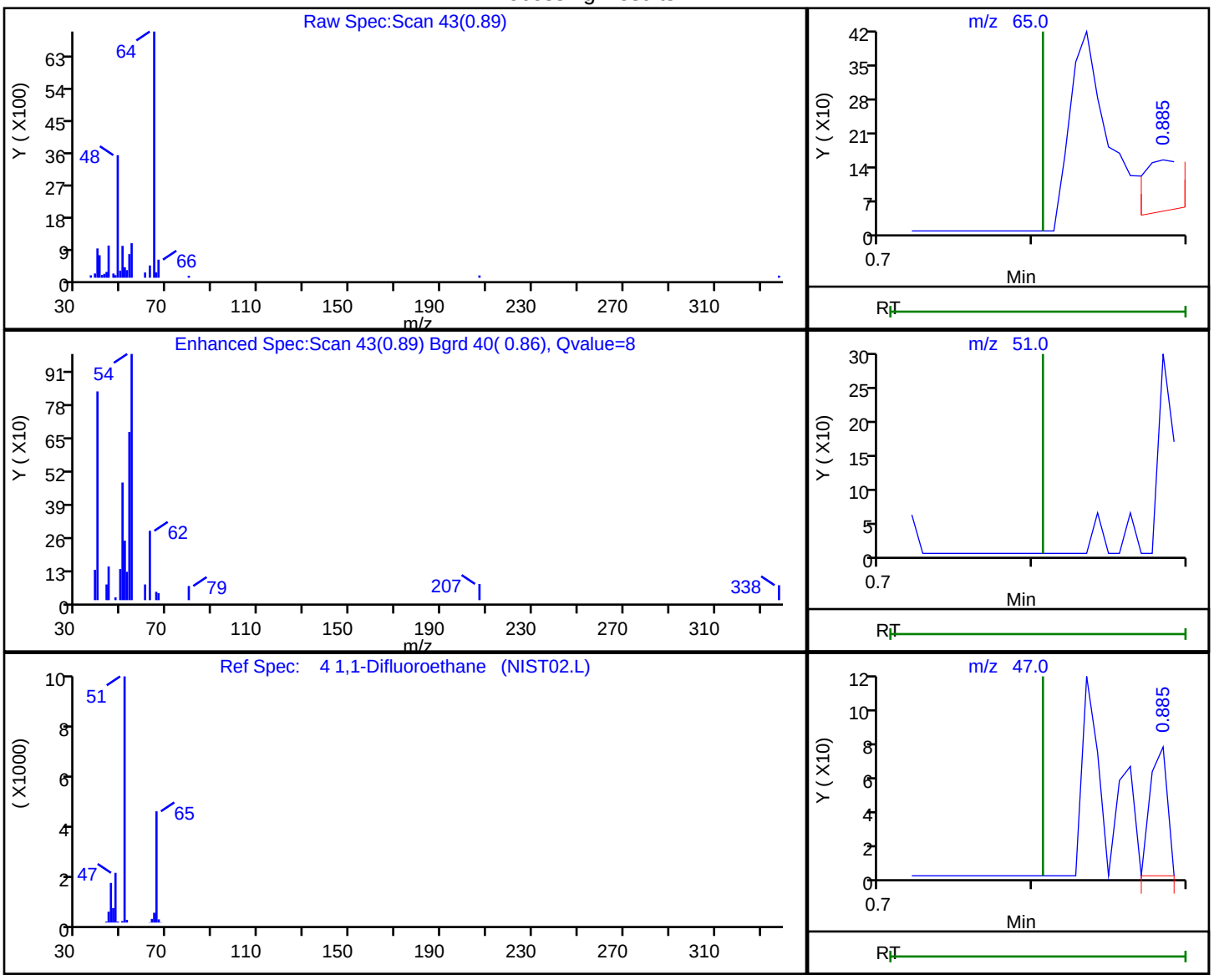
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 1,1-Difluoroethane, CAS: 75-37-6

Processing Results



RT	Mass	Response	Amount
0.89	65.00	179	0.104445
0.89	51.00	239	
0.89	47.00	57	

Reviewer: boykink, 05-Sep-2020 00:02:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

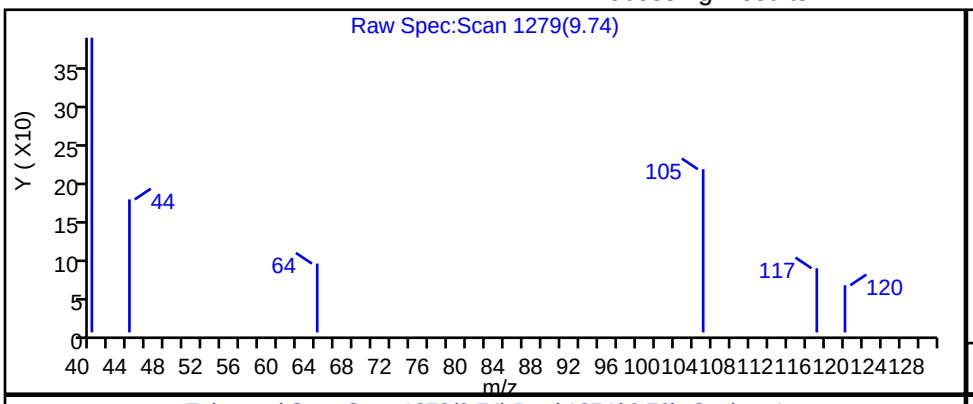
User Disabled Compound Report

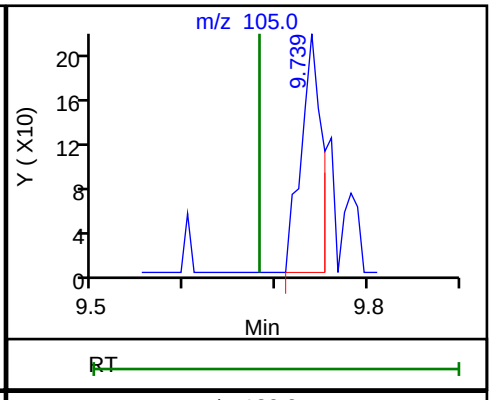
Eurofins TestAmerica, Edison

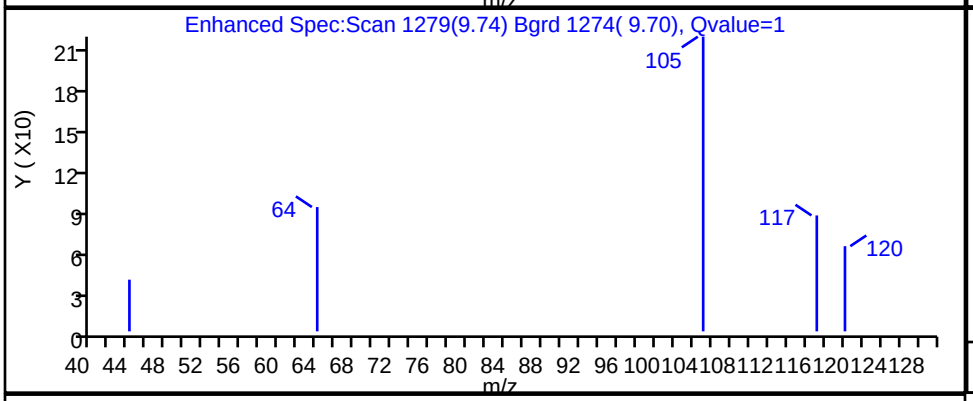
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

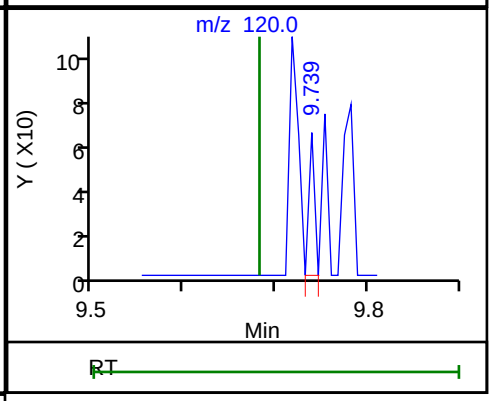
118 1,2,4-Trimethylbenzene, CAS: 95-63-6

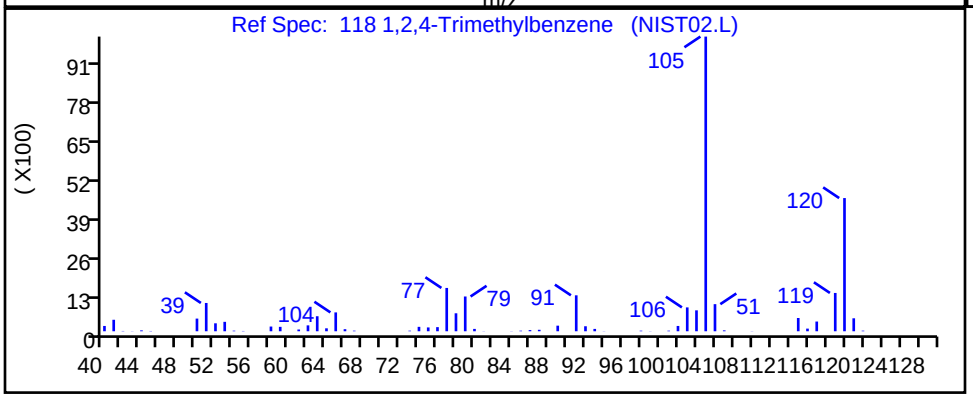
Processing Results











RT	Mass	Response	Amount
9.74	105.00	323	0.030435
9.74	120.00	26	

Reviewer: boykink, 05-Sep-2020 00:03:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

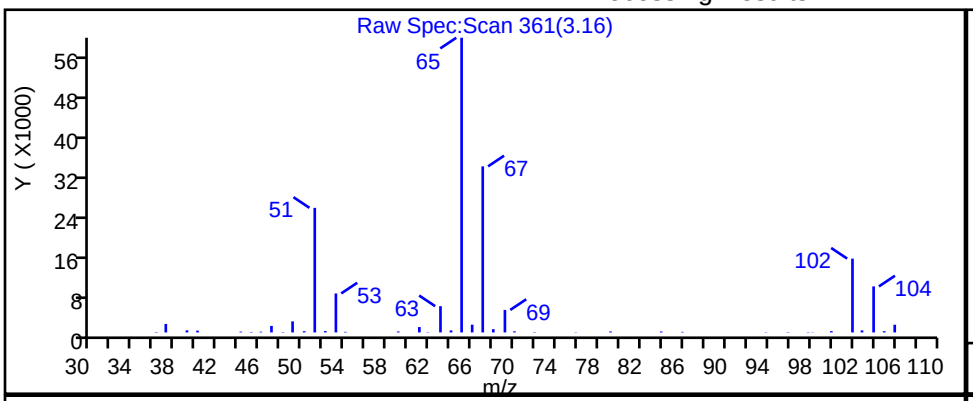
User Disabled Compound Report

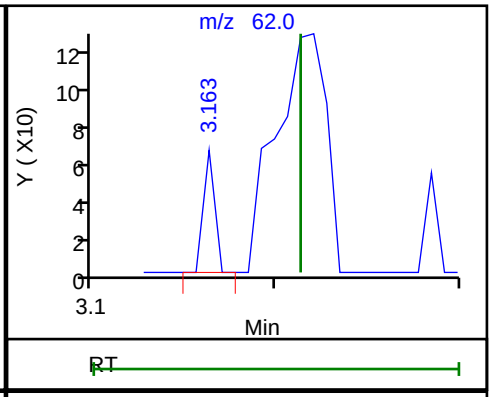
Eurofins TestAmerica, Edison

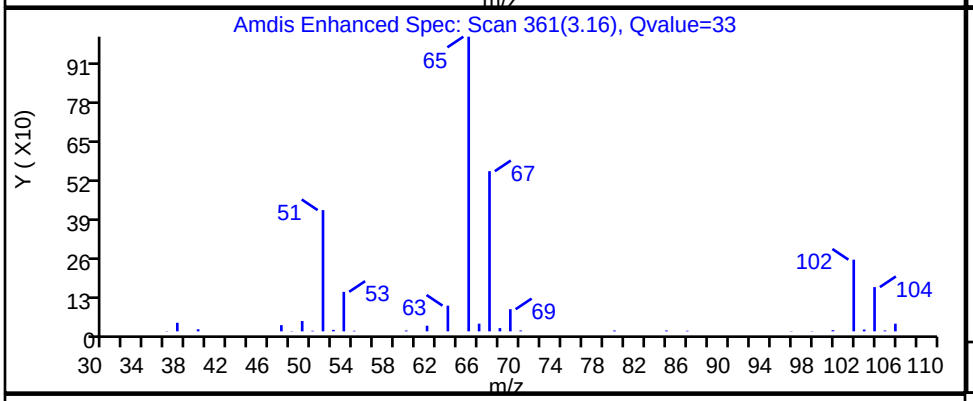
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

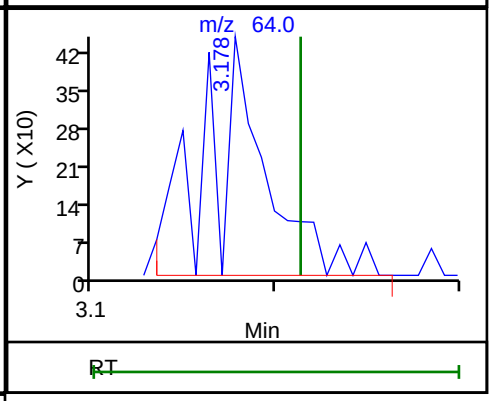
63 1,2-Dichloroethane, CAS: 107-06-2

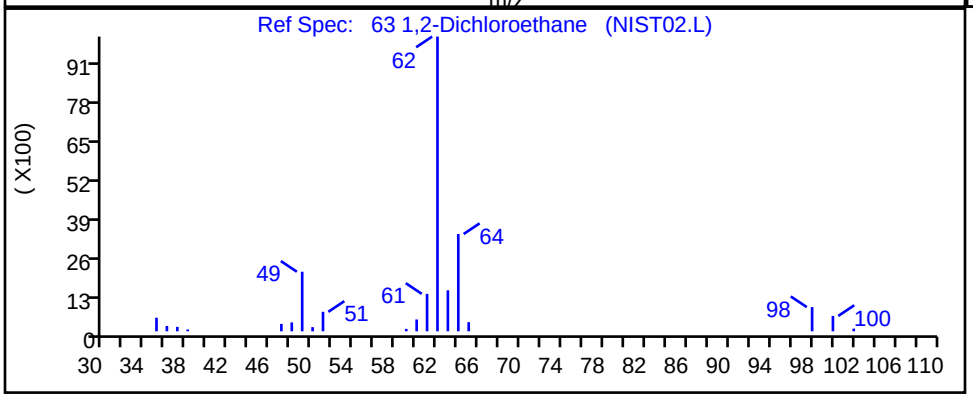
Processing Results











RT	Mass	Response	Amount
3.16	62.00	28	0.008825
3.18	64.00	1036	

Reviewer: boykink, 05-Sep-2020 00:03:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

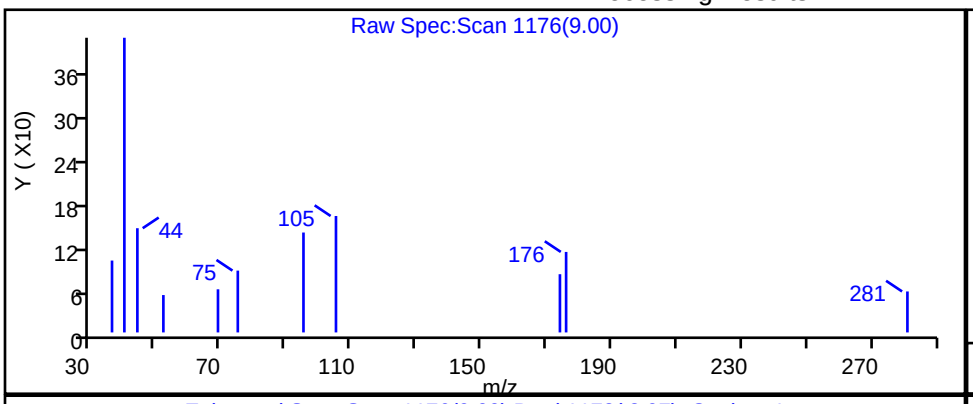
User Disabled Compound Report

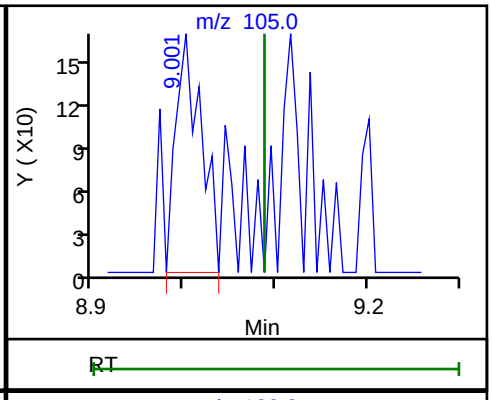
Eurofins TestAmerica, Edison

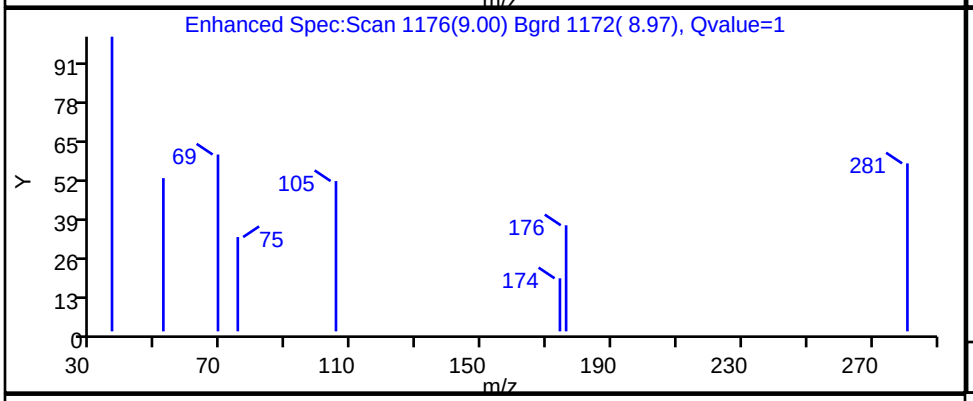
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

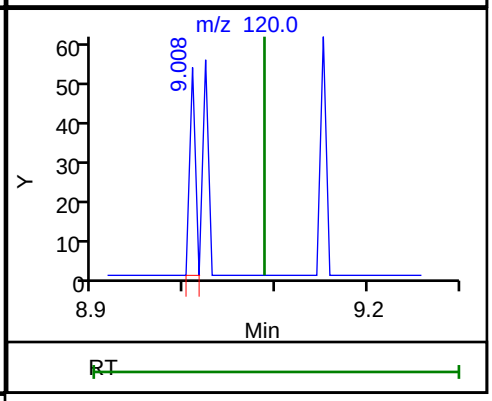
114 1,3,5-Trimethylbenzene, CAS: 108-67-8

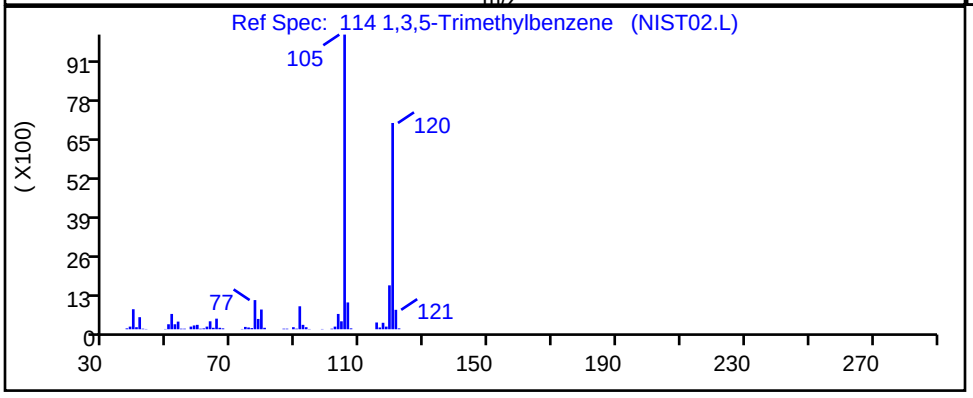
Processing Results











RT	Mass	Response	Amount
9.00	105.00	312	0.030379
9.01	120.00	23	

Reviewer: boykink, 05-Sep-2020 00:03:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

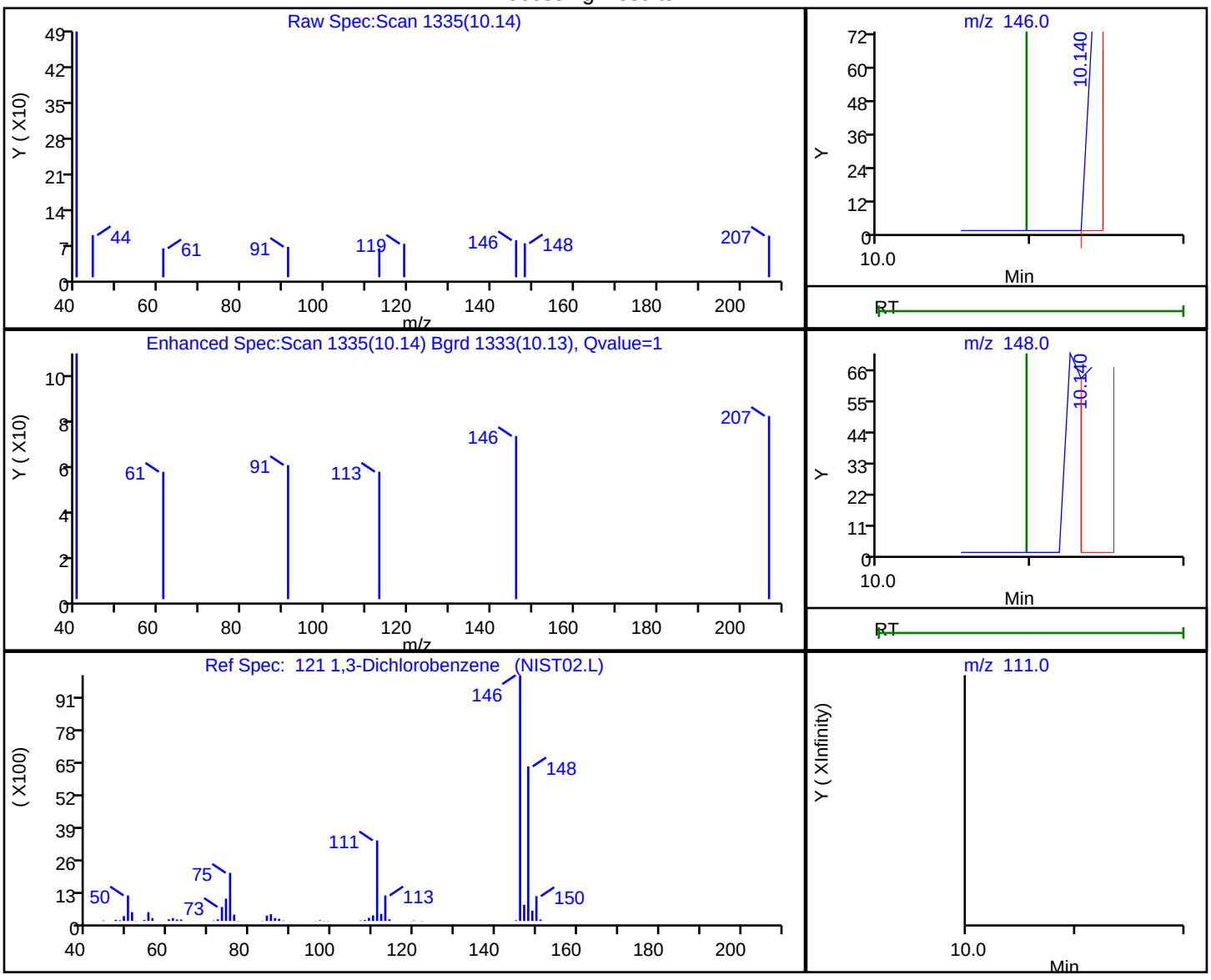
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

121 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.14	146.00	31	0.005347
10.14	148.00	82	
10.15	111.00	38	

Reviewer: boykink, 05-Sep-2020 00:03:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

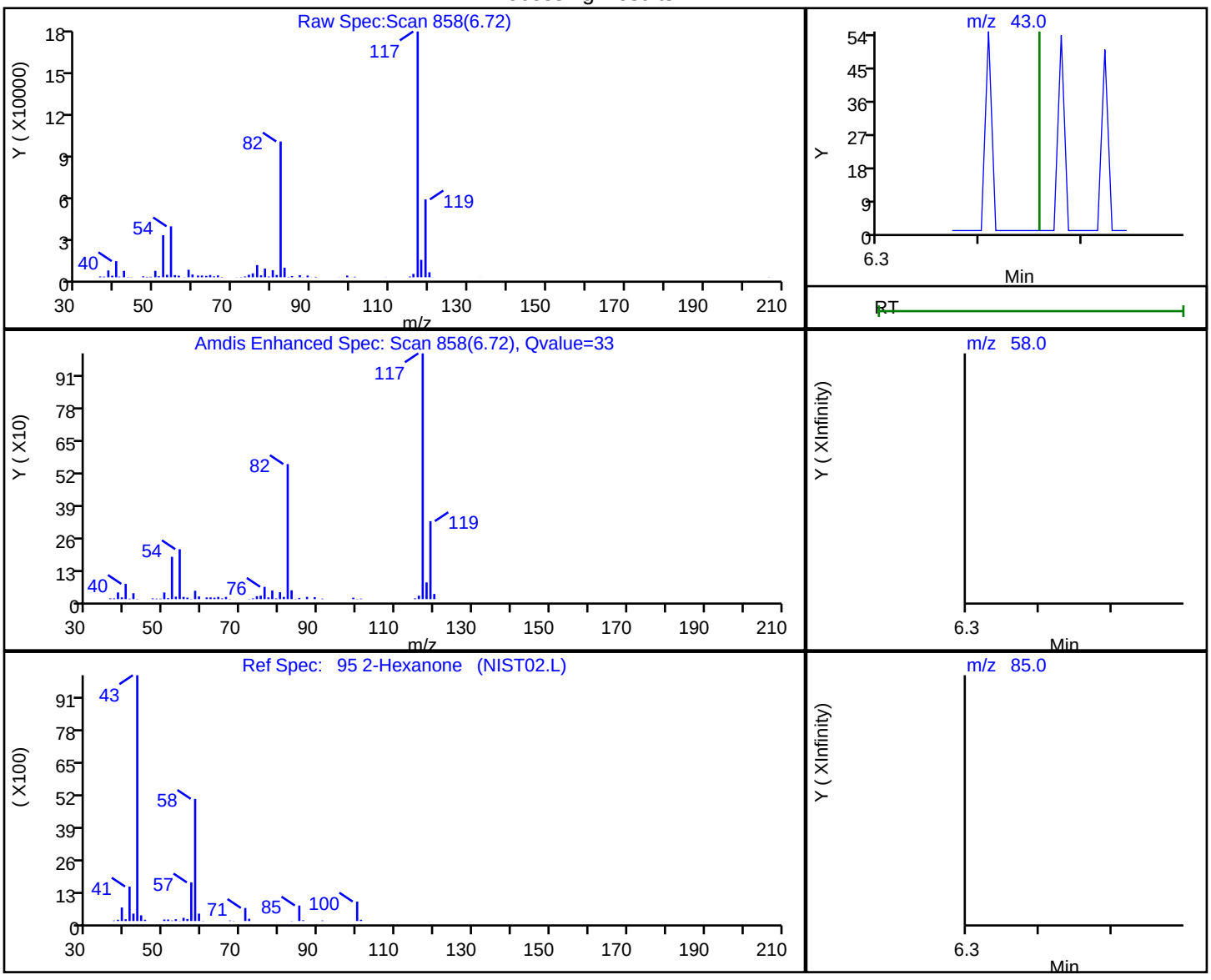
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

95 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.72	43.00	230	864.8696
6.73	58.00	13278	
6.72	85.00	1952	
6.73	100.00	205	

Reviewer: boykink, 05-Sep-2020 00:03:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

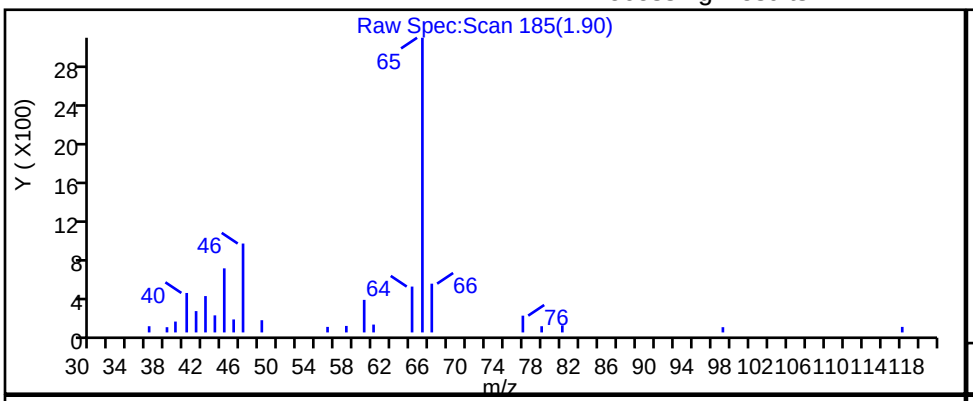
User Disabled Compound Report

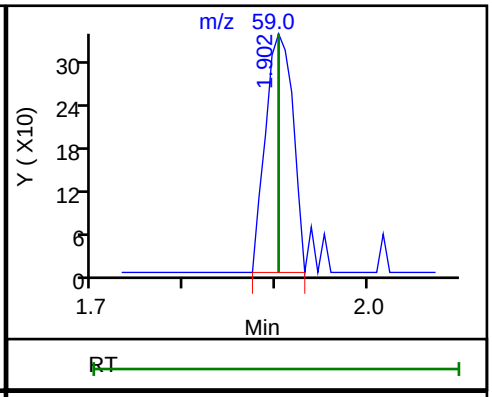
Eurofins TestAmerica, Edison

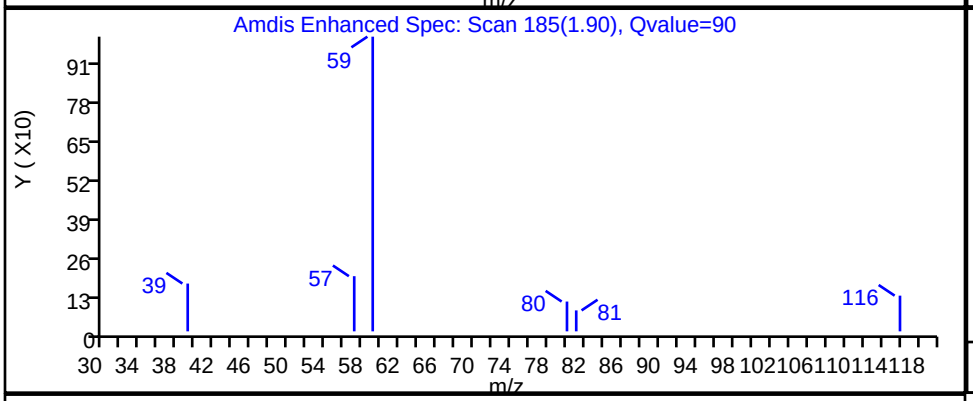
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

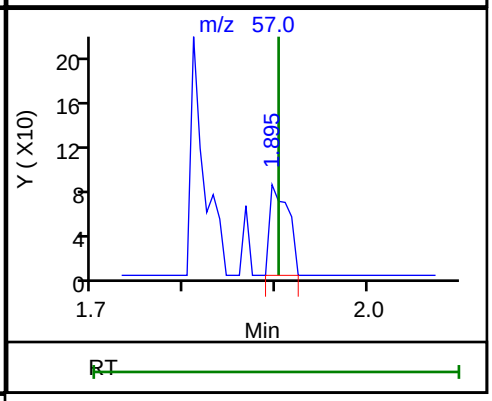
34 2-Methyl-2-propanol, CAS: 75-65-0

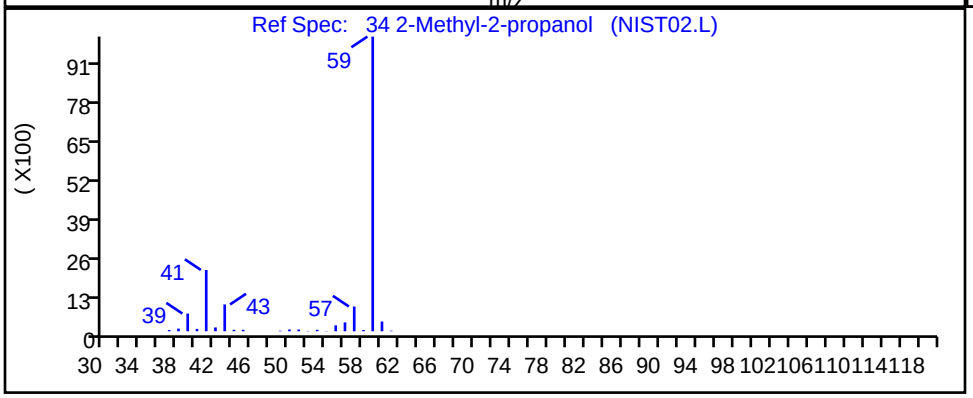
Processing Results











RT	Mass	Response	Amount
1.90	59.00	699	5.484978
1.90	57.00	115	

Reviewer: boykink, 05-Sep-2020 00:03:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

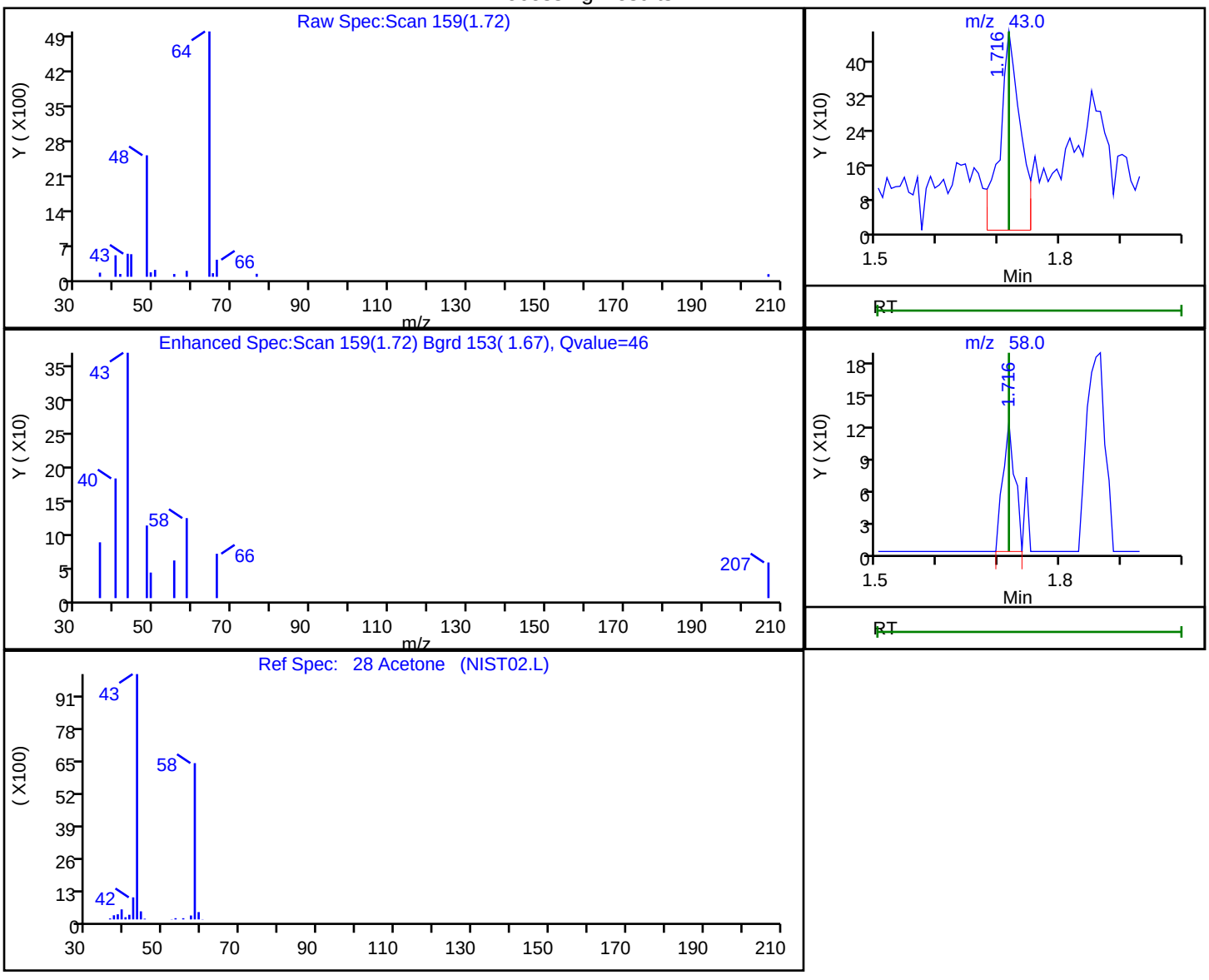
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
1.72	43.00	1076	856.7366
1.72	58.00	163	

Reviewer: boykink, 05-Sep-2020 00:02:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

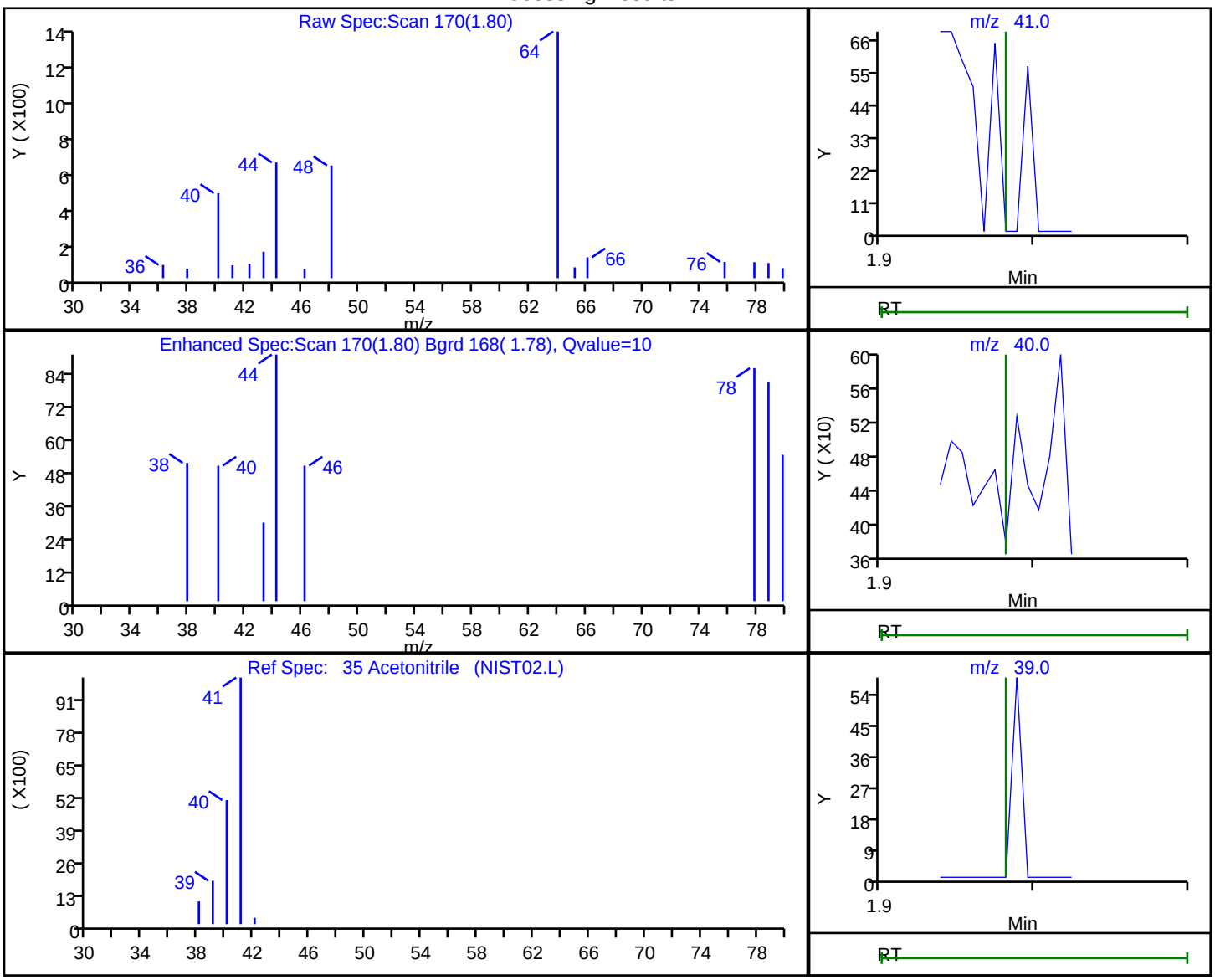
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

35 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
1.80	41.00	81	0.369146
1.80	40.00	179	
1.79	39.00	36	
1.79	38.00	52	

Reviewer: boykink, 05-Sep-2020 00:03:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

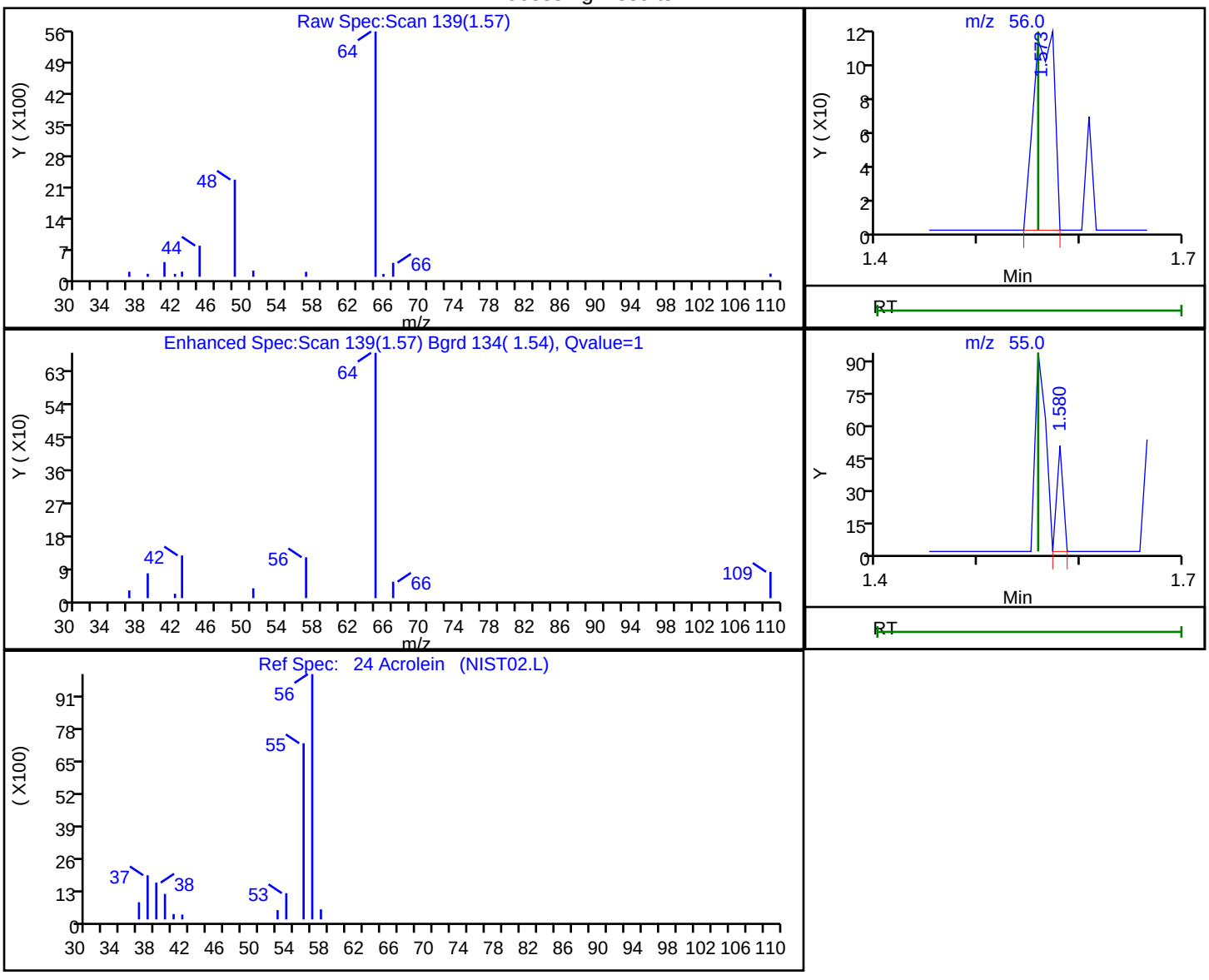
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
1.57	56.00	157	0.664059
1.58	55.00	21	

Reviewer: boykink, 05-Sep-2020 00:02:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

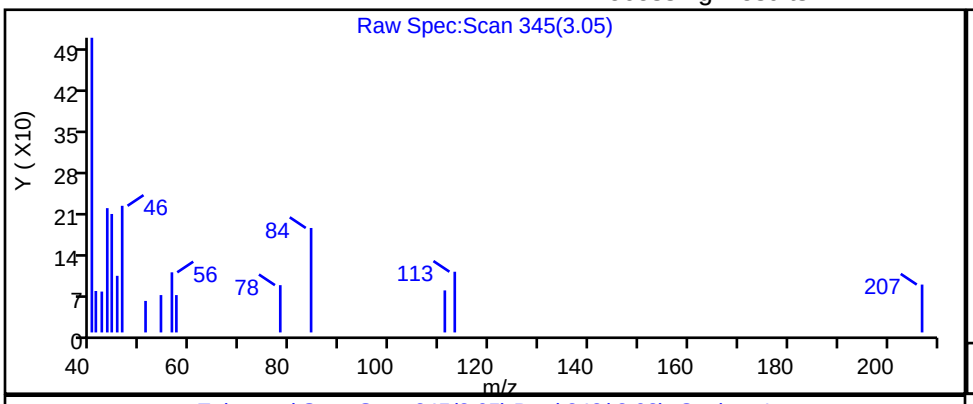
User Disabled Compound Report

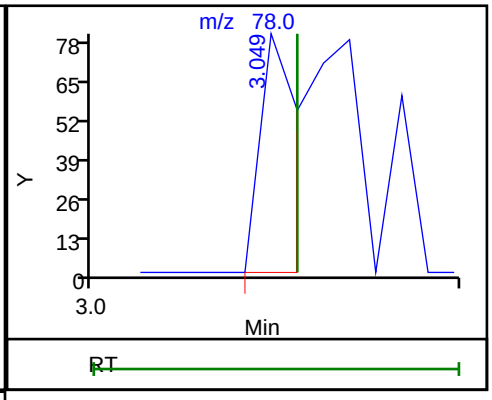
Eurofins TestAmerica, Edison

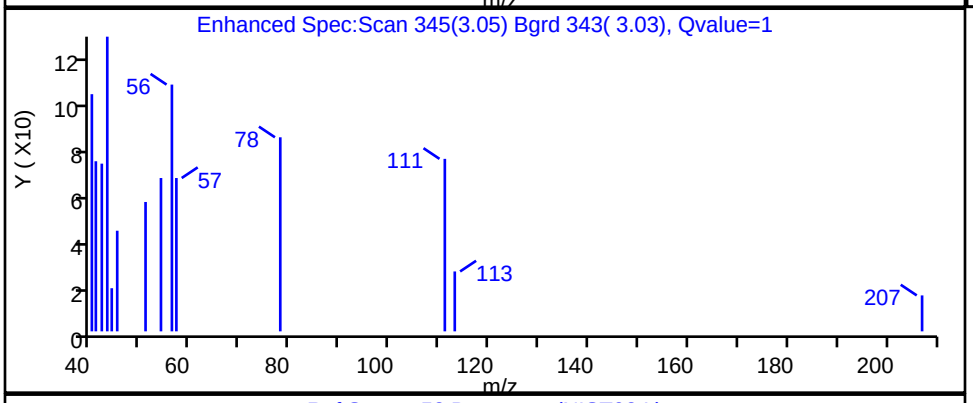
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

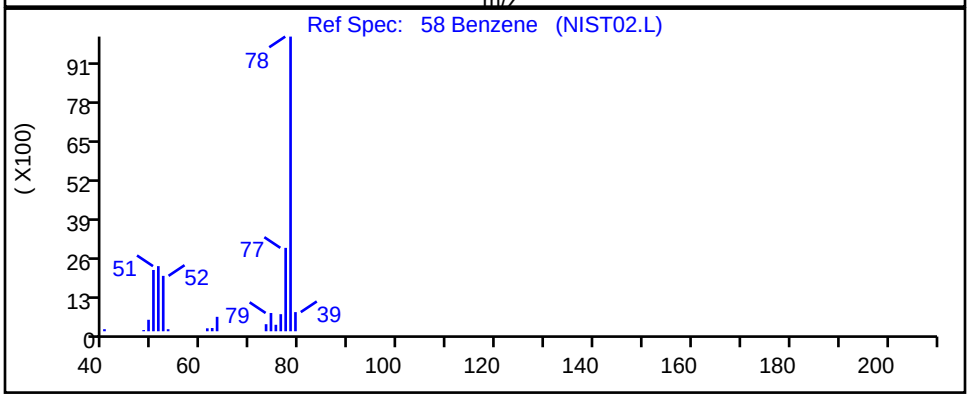
58 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.05	78.00	58	0.004886

Reviewer: boykink, 05-Sep-2020 00:03:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

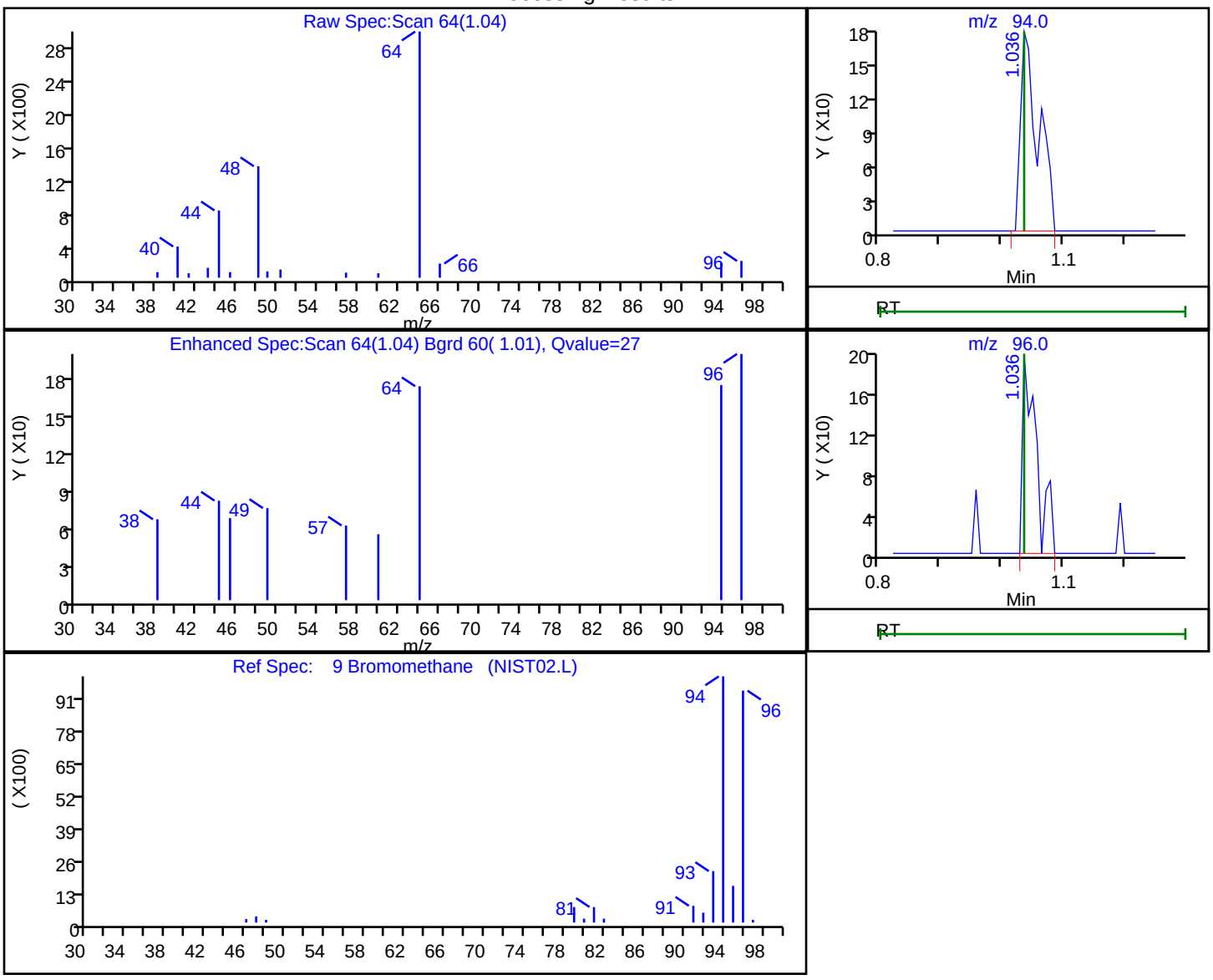
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

9 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.04	94.00	345	174.0470
1.04	96.00	316	

Reviewer: boykink, 05-Sep-2020 00:02:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

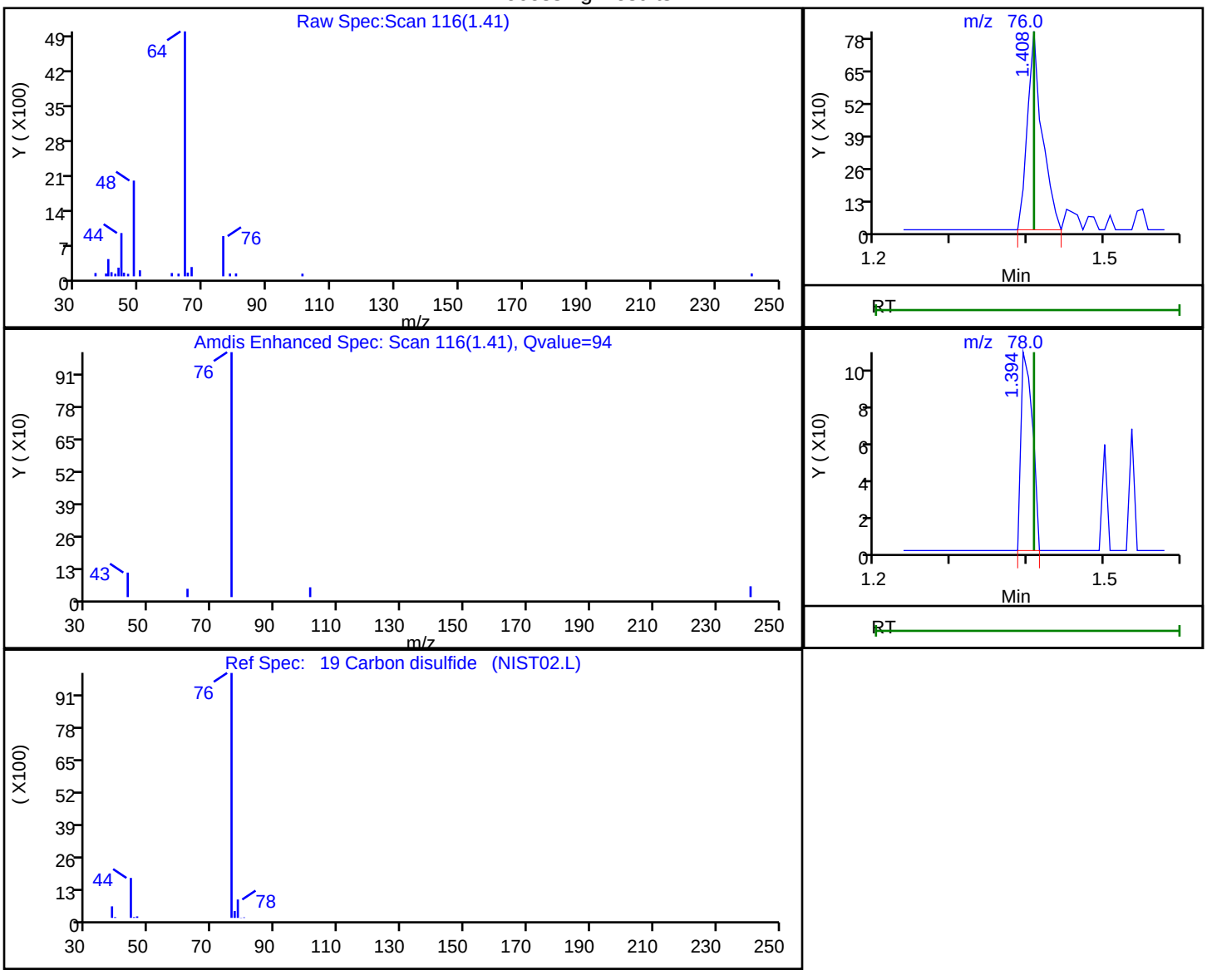
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

19 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
1.41	76.00	1078	0.108275
1.39	78.00	105	

Reviewer: boykink, 05-Sep-2020 00:02:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

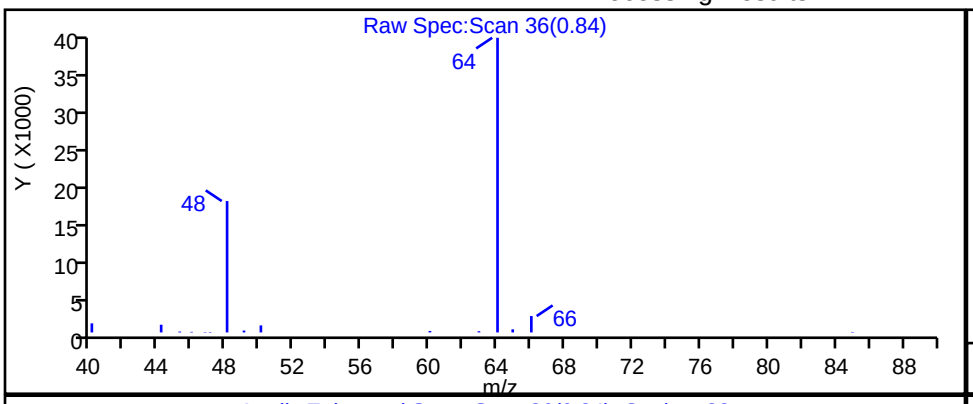
User Disabled Compound Report

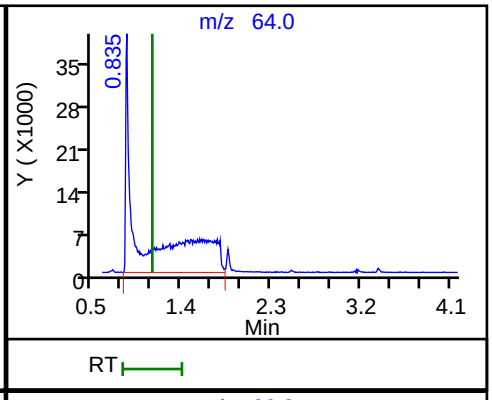
Eurofins TestAmerica, Edison

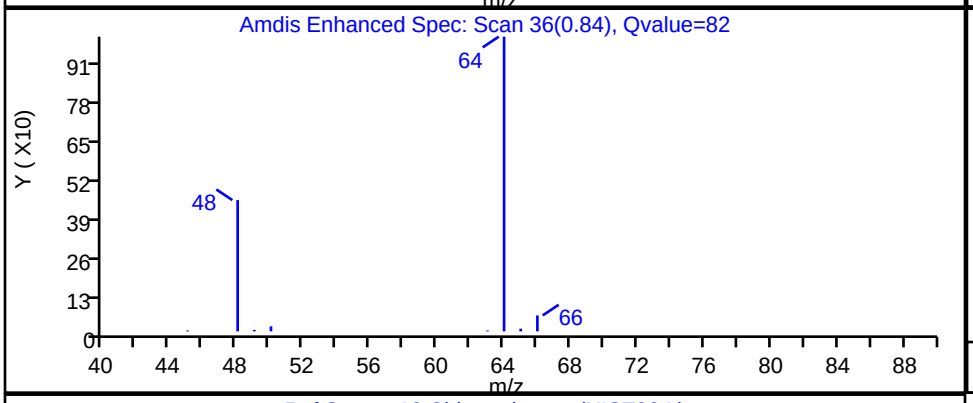
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

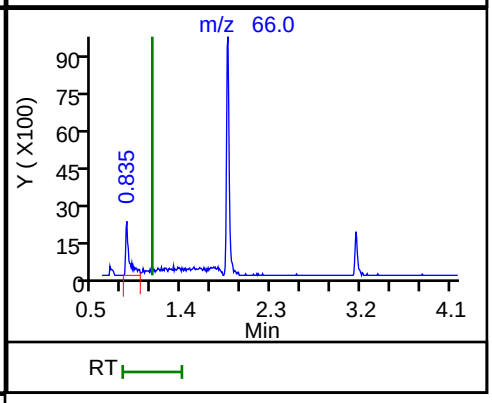
10 Chloroethane, CAS: 75-00-3

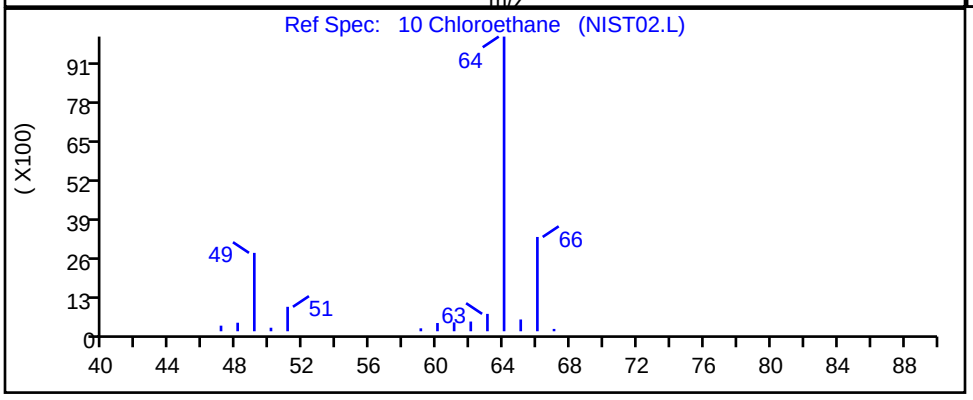
Processing Results











RT	Mass	Response	Amount
0.84	64.00	327961	1.330294
0.84	66.00	5483	

Reviewer: boykink, 05-Sep-2020 00:02:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

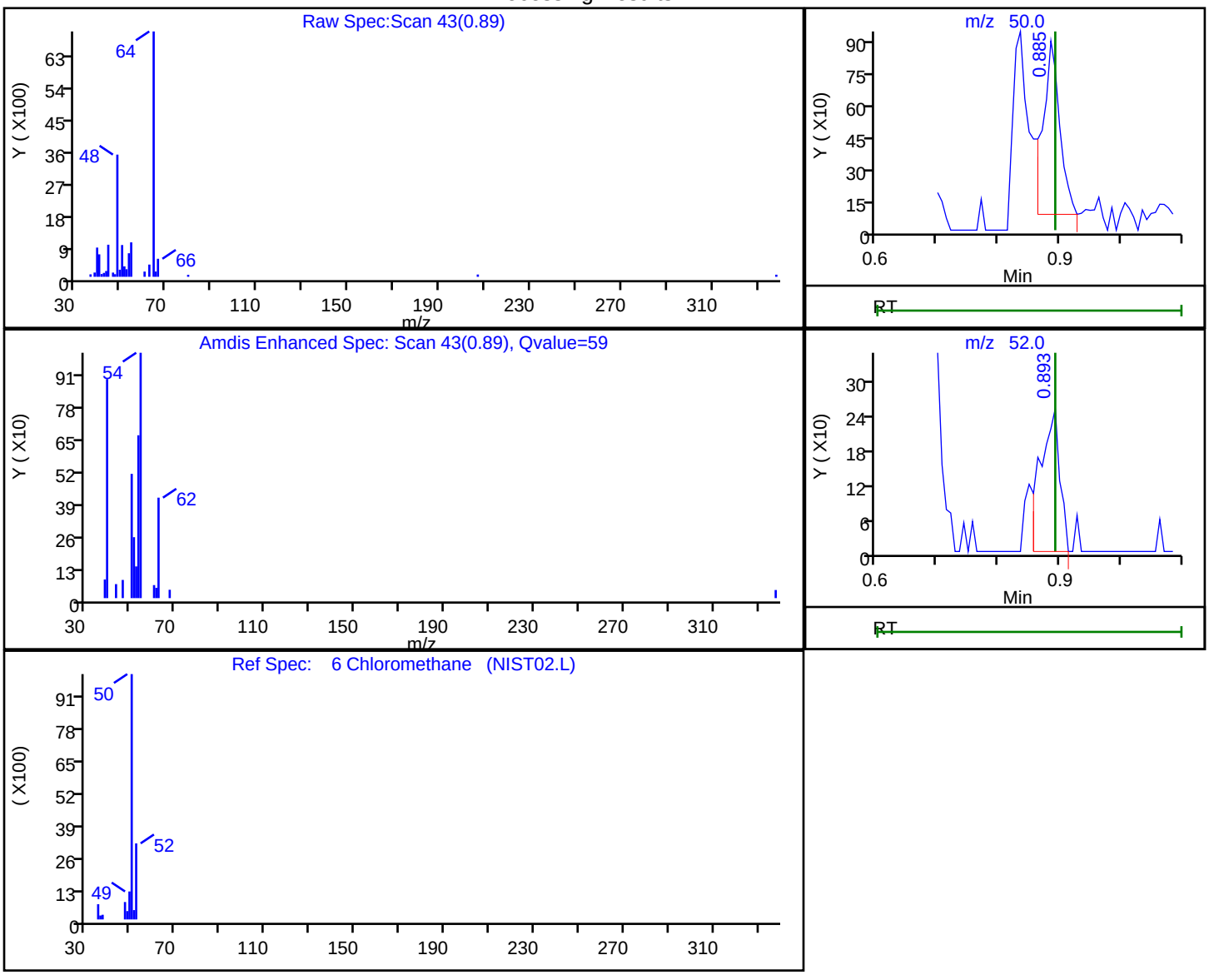
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.89	50.00	1564	0.285365
0.89	52.00	546	

Reviewer: boykink, 05-Sep-2020 00:02:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

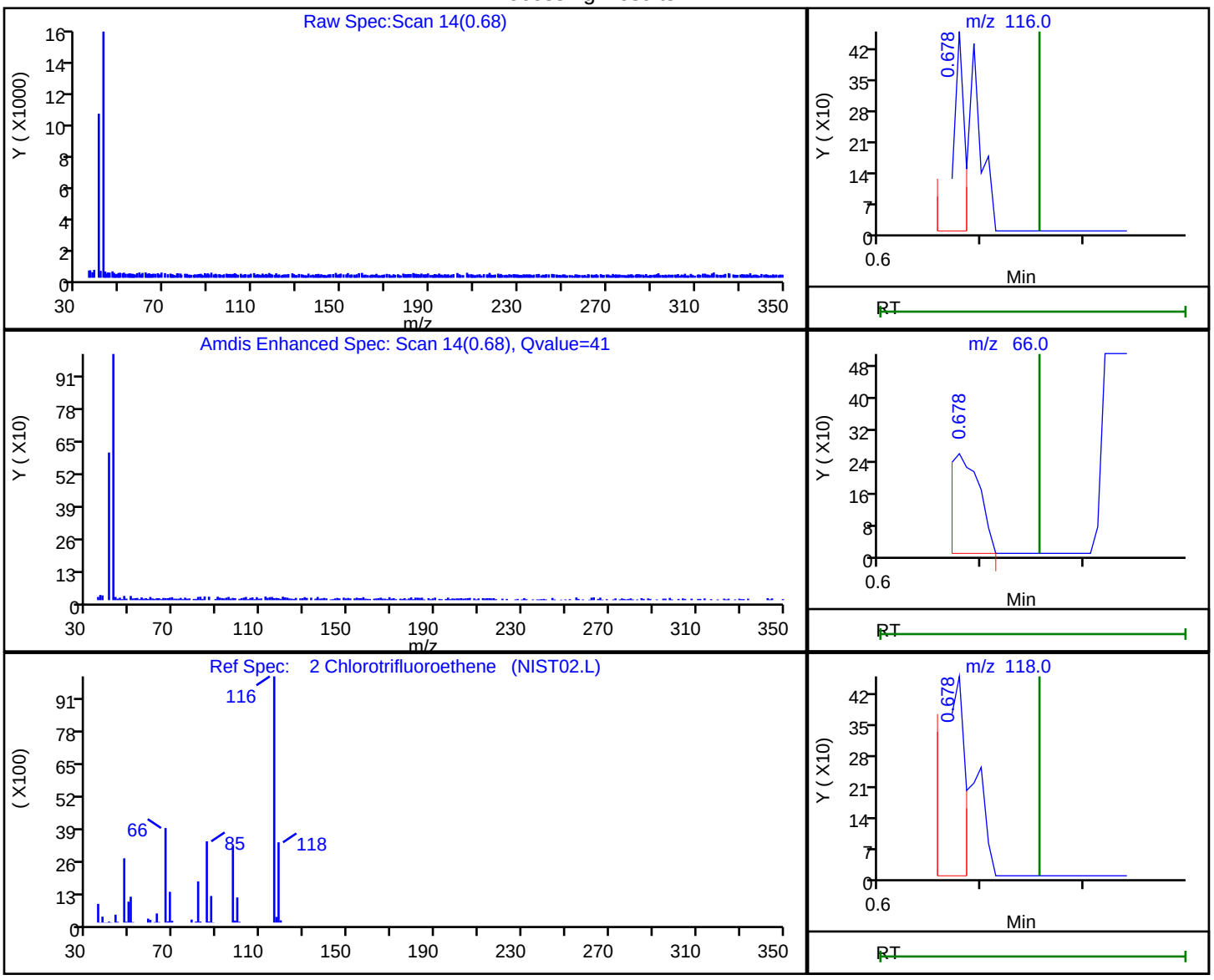
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Chlorotrifluoroethene, CAS: 79-38-9

Processing Results



RT	Mass	Response	Amount
0.68	116.00	426	0.492486
0.68	66.00	493	
0.68	118.00	551	

Reviewer: boykink, 05-Sep-2020 00:02:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

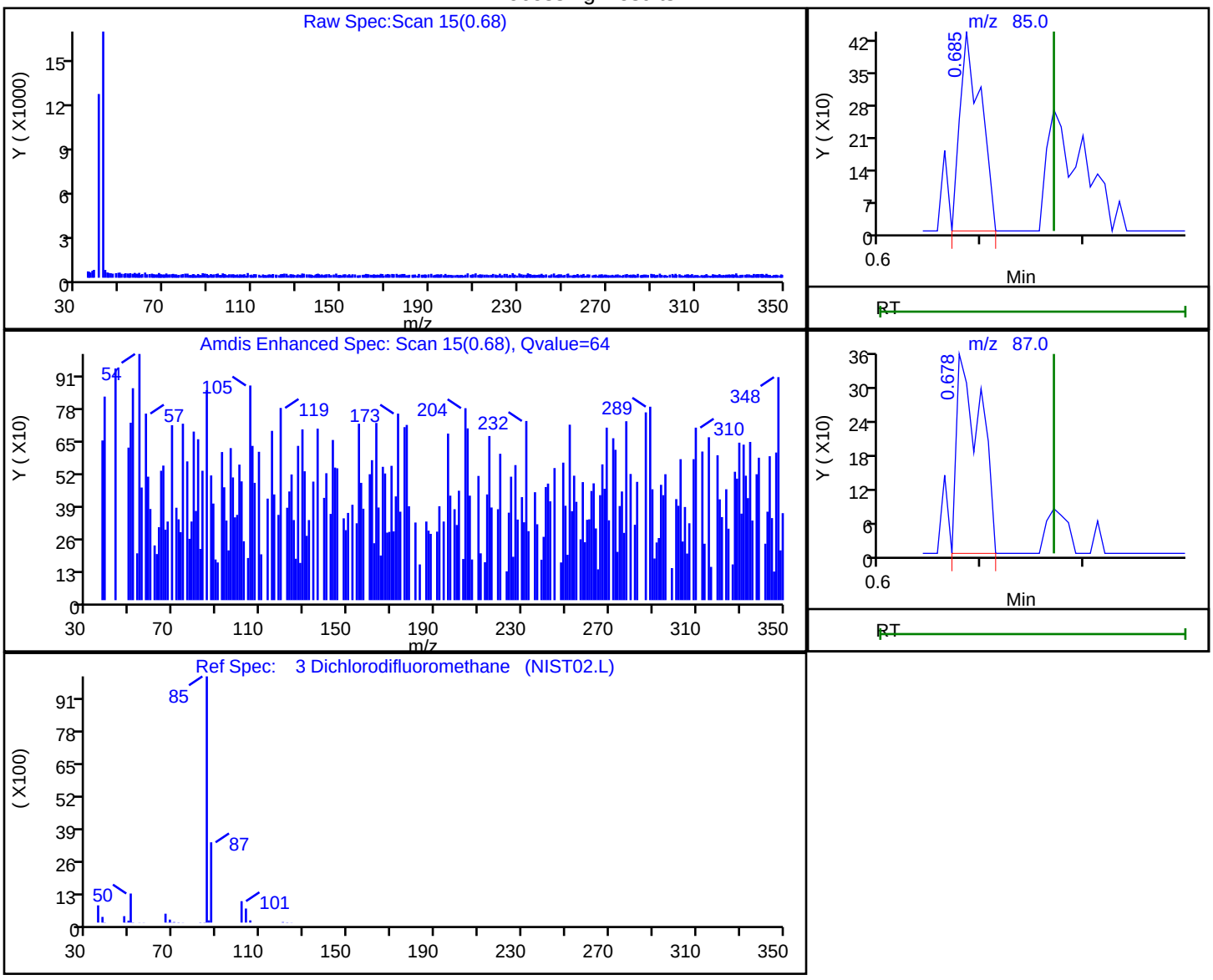
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.68	85.00	609	0.172788
0.68	87.00	575	

Reviewer: boykink, 05-Sep-2020 00:02:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

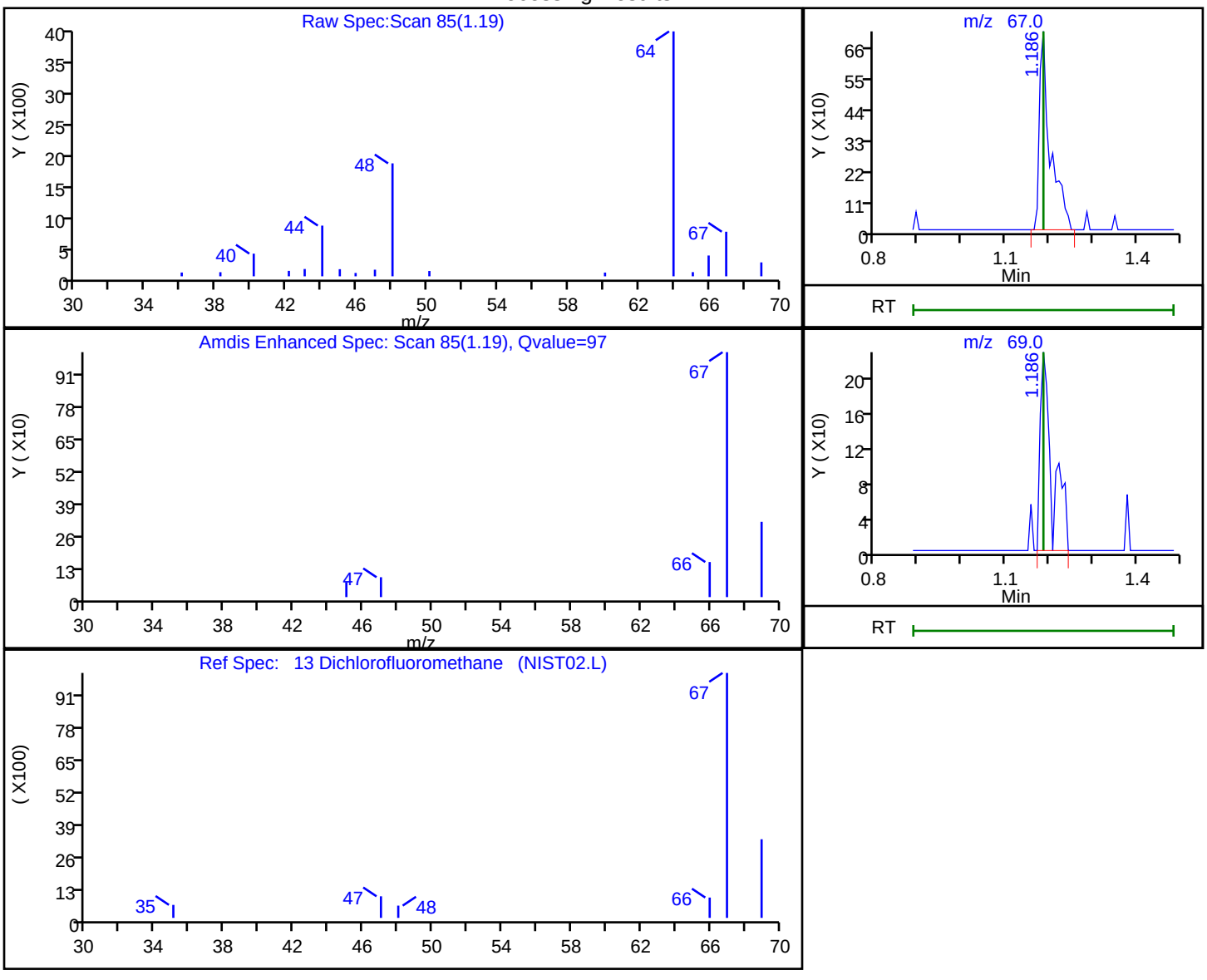
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
1.19	67.00	1245	0.263820
1.19	69.00	434	

Reviewer: boykink, 05-Sep-2020 00:02:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

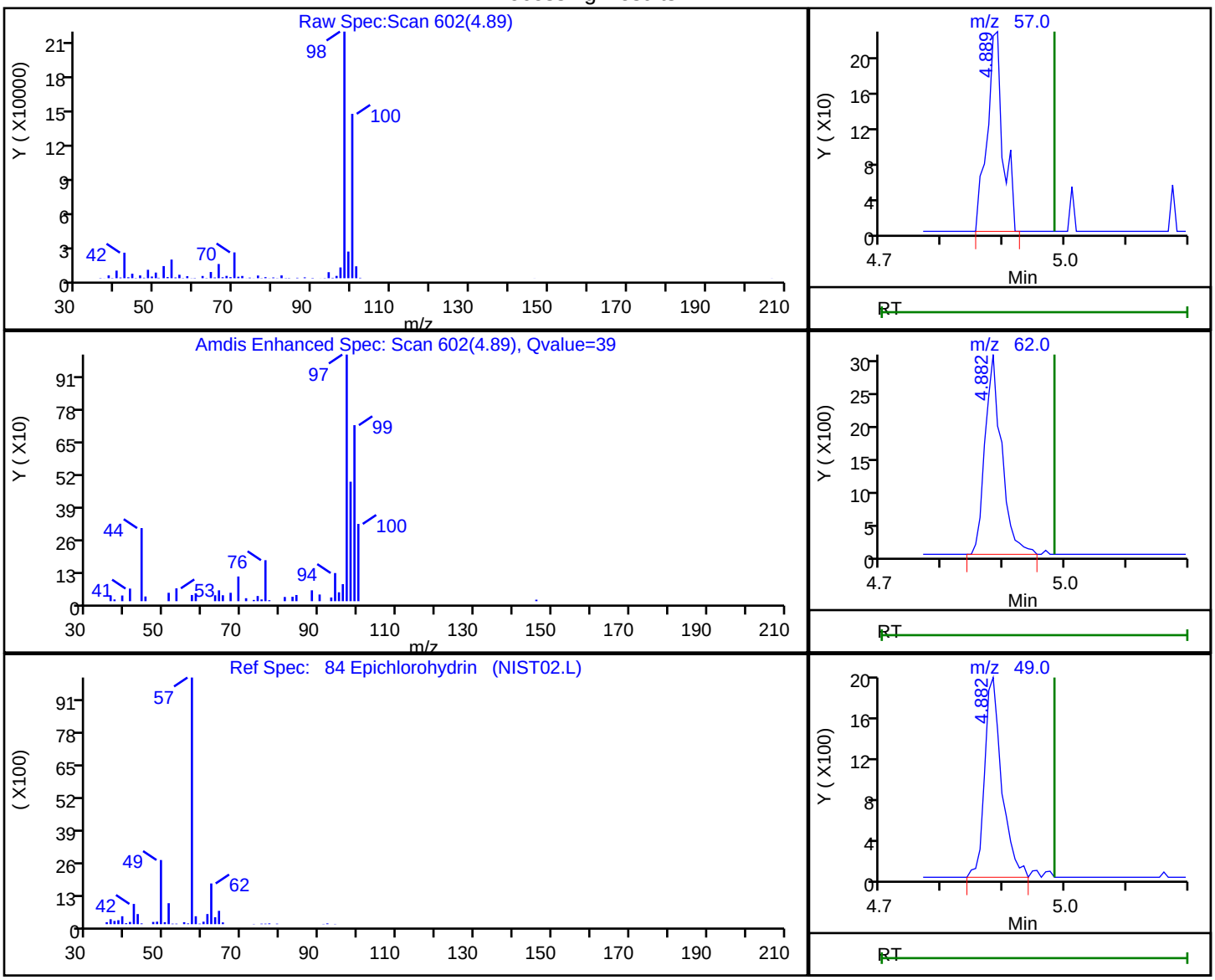
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Processing Results



RT	Mass	Response	Amount
4.89	57.00	406	8.568717
4.88	62.00	5790	
4.88	49.00	3821	

Reviewer: baronm, 05-Sep-2020 12:14:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

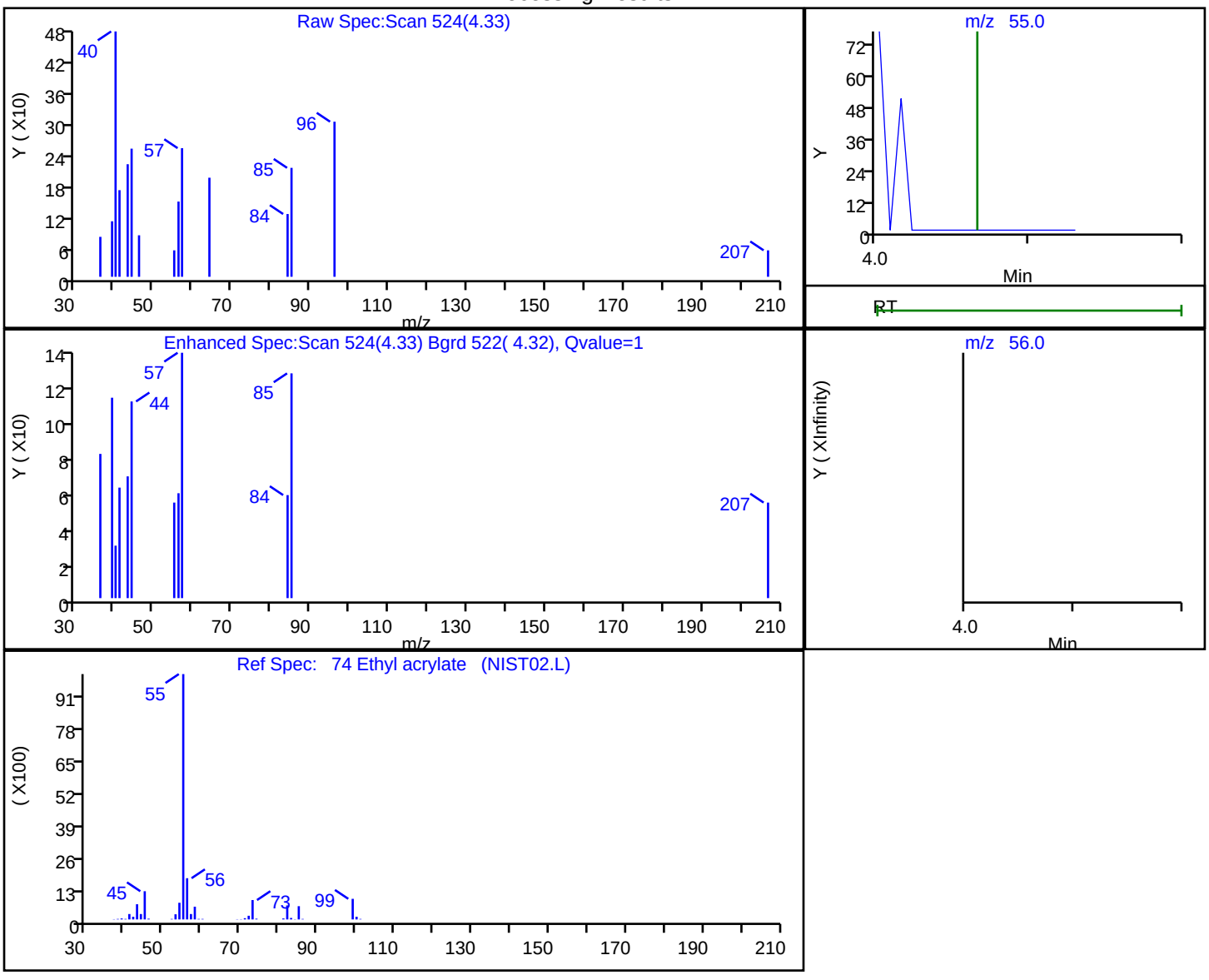
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

74 Ethyl acrylate, CAS: 140-88-5

Processing Results



RT	Mass	Response	Amount
4.33	55.00	44	0.567643
4.33	56.00	252	

Reviewer: boykink, 05-Sep-2020 00:03:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

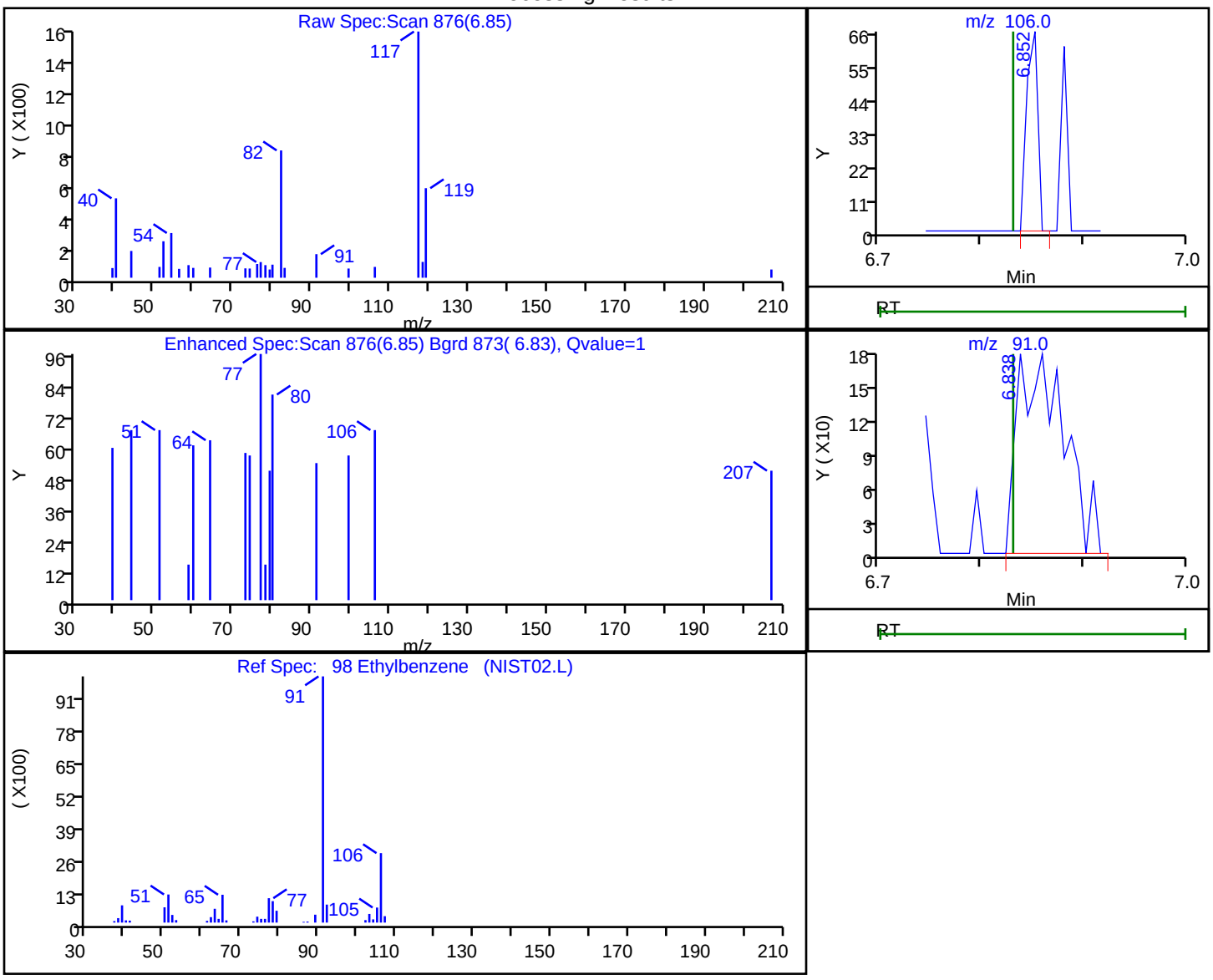
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

98 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
6.85	106.00	51	0.011946
6.84	91.00	571	

Reviewer: boykink, 05-Sep-2020 00:03:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

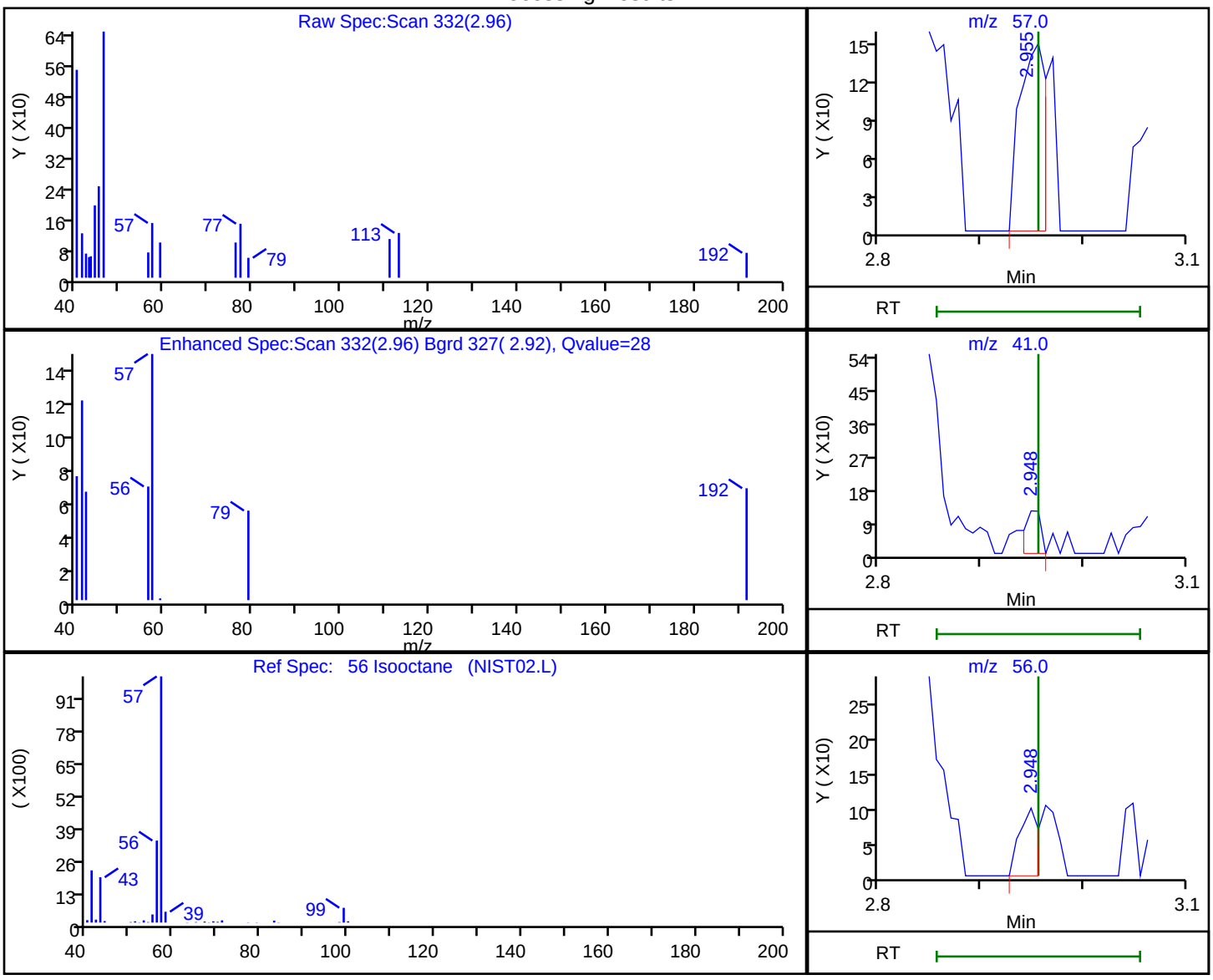
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
2.96	57.00	257	0.031274
2.95	41.00	127	
2.95	56.00	123	

Reviewer: boykink, 05-Sep-2020 00:03:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

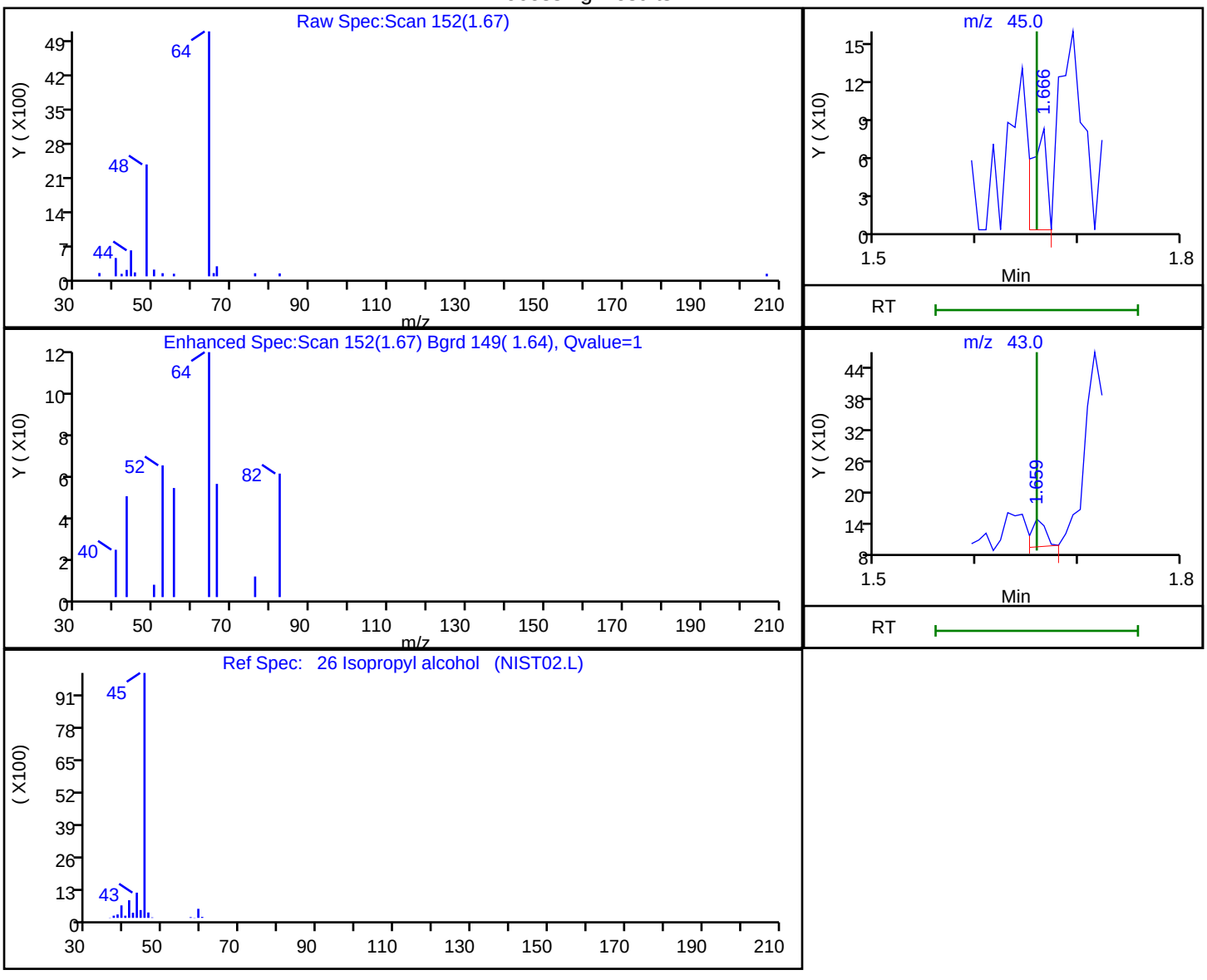
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
1.67	45.00	83	0.911971
1.66	43.00	50	

Reviewer: boykink, 05-Sep-2020 00:02:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

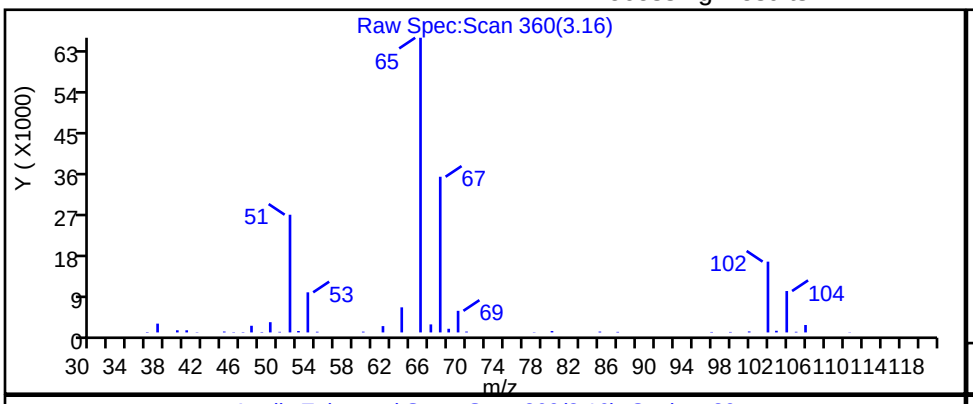
User Disabled Compound Report

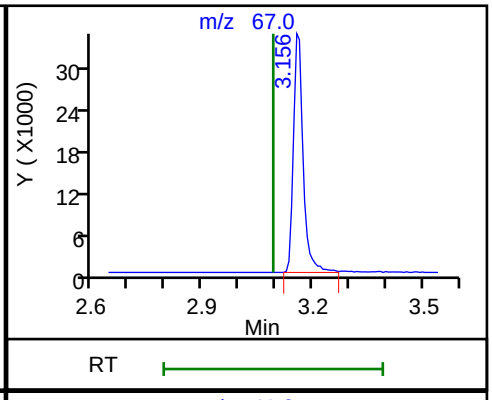
Eurofins TestAmerica, Edison

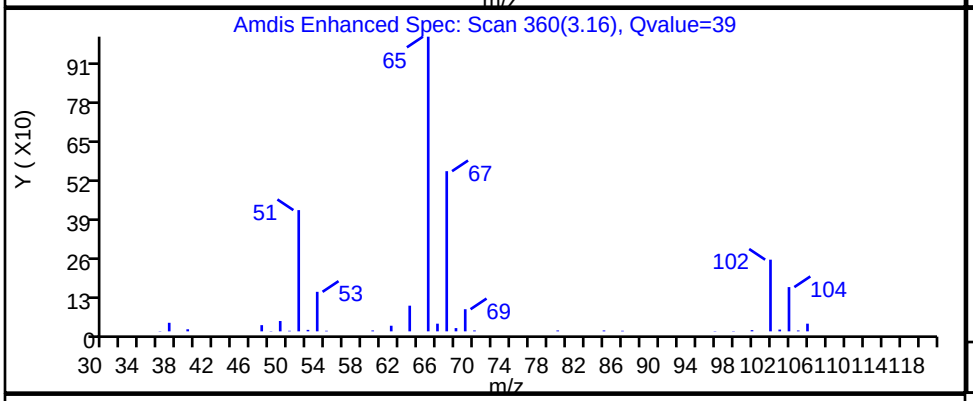
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

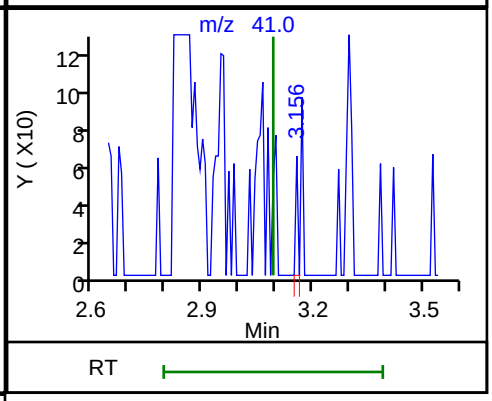
60 Methacrylonitrile, CAS: 126-98-7

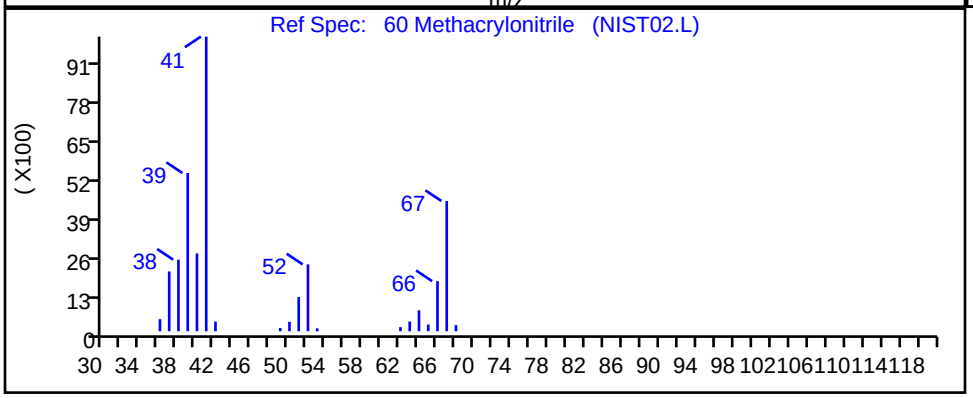
Processing Results











RT	Mass	Response	Amount
3.16	67.00	63861	85.791685
3.16	41.00	27	

Reviewer: boykink, 05-Sep-2020 00:03:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

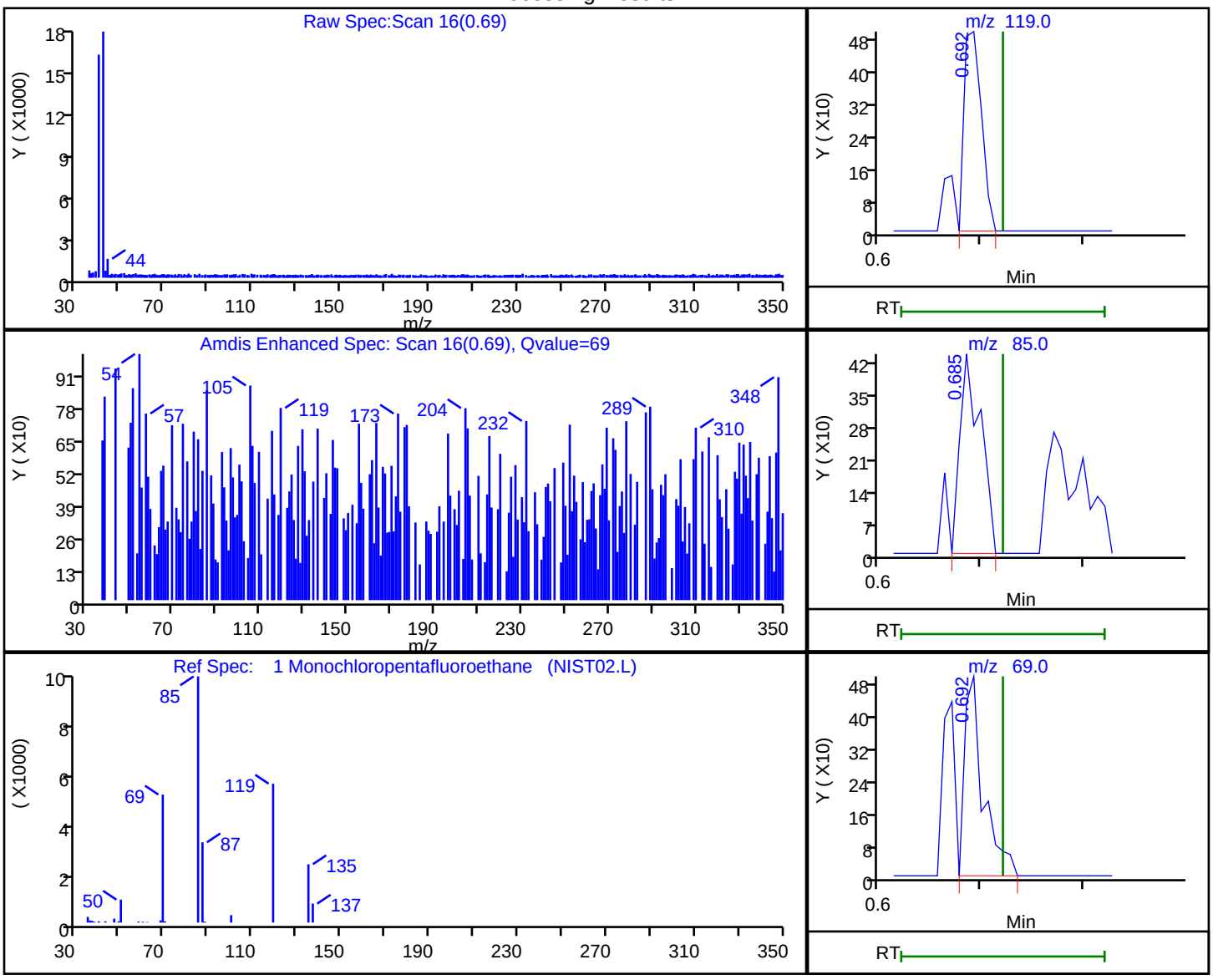
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Monochloropentafluoroethane, CAS: 76-15-3

Processing Results



RT	Mass	Response	Amount
0.69	119.00	593	2.523969
0.68	85.00	609	
0.69	69.00	630	
0.69	135.00	629	

Reviewer: boykink, 05-Sep-2020 00:02:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

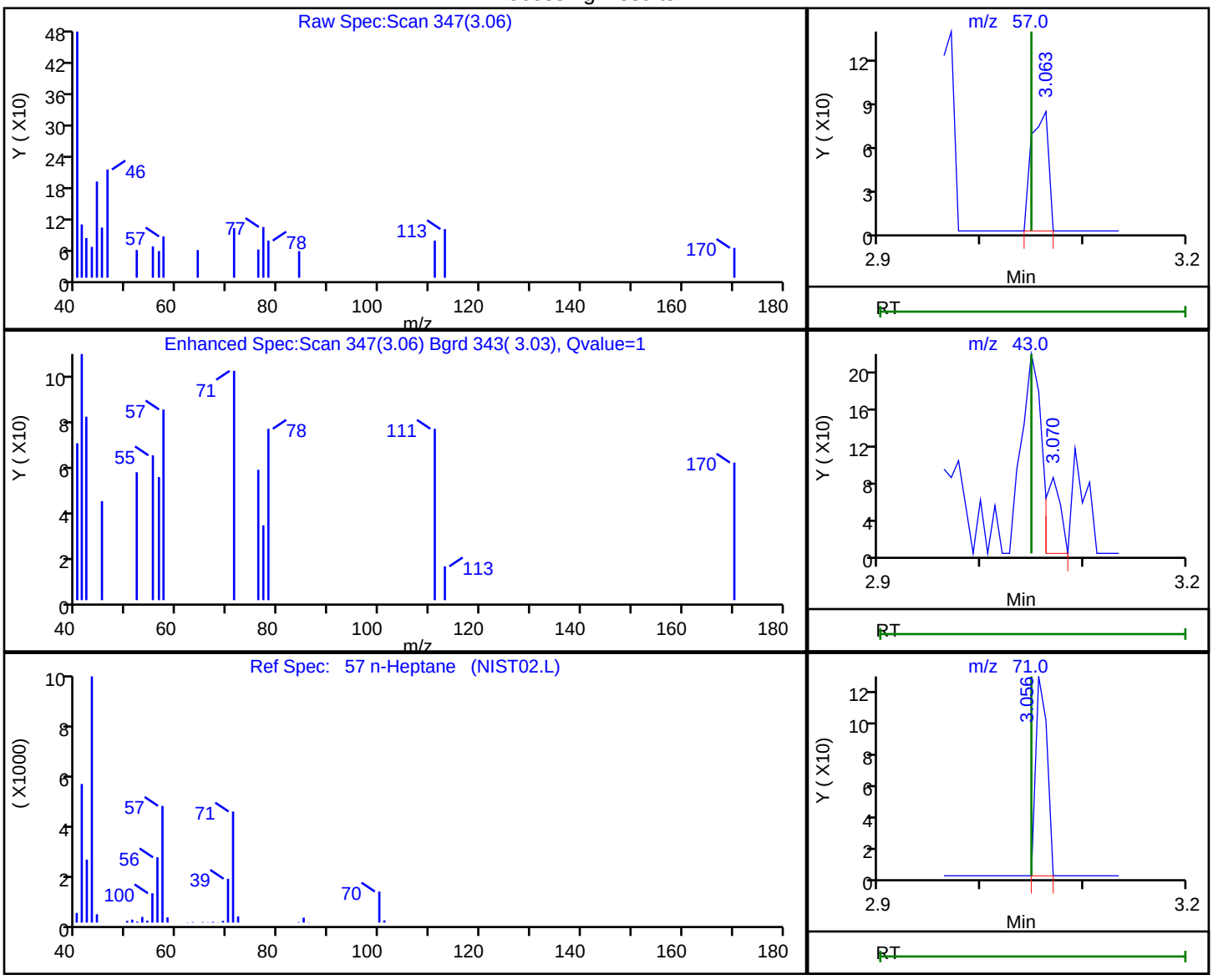
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
3.06	57.00	91	0.044787
3.07	43.00	82	
3.06	71.00	93	

Reviewer: boykink, 05-Sep-2020 00:03:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

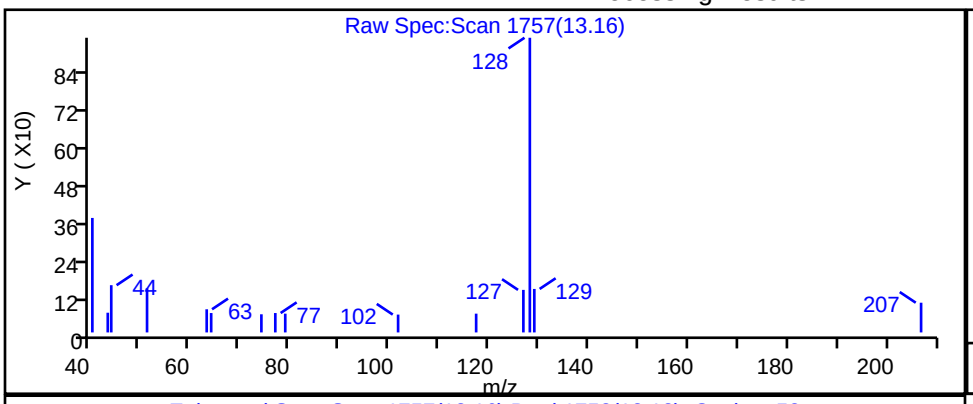
User Disabled Compound Report

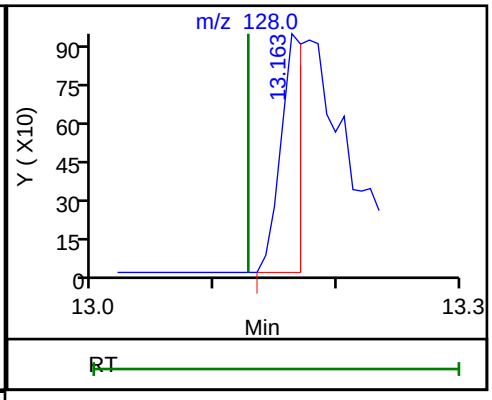
Eurofins TestAmerica, Edison

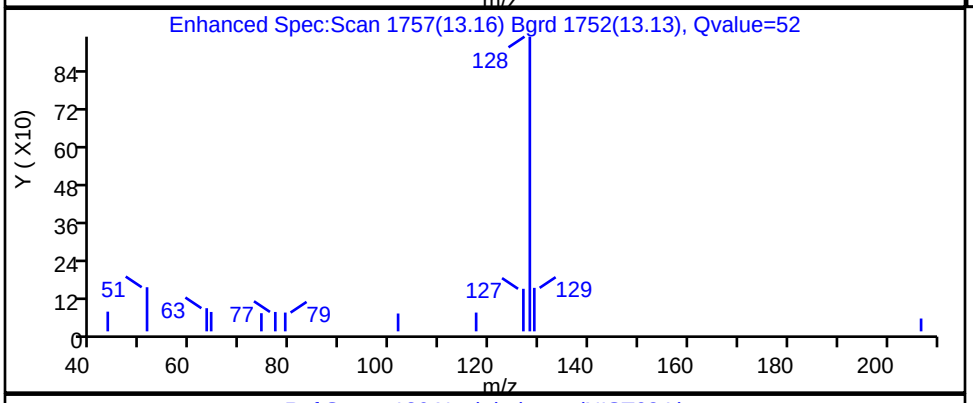
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

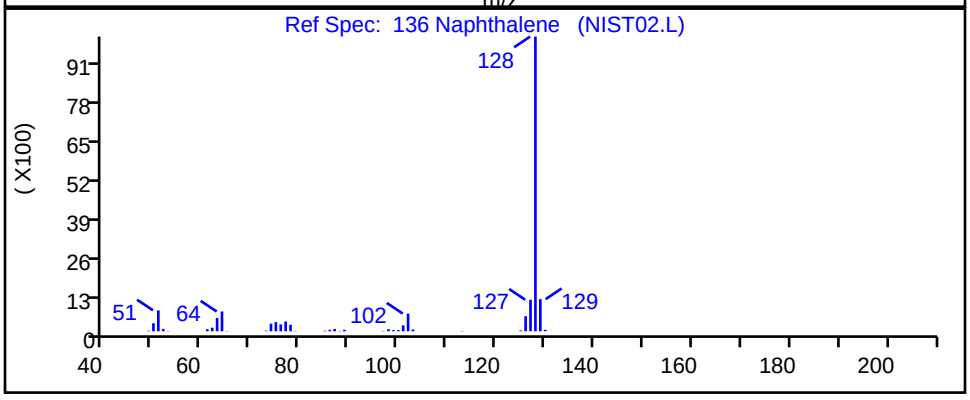
136 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
13.16	128.00	1193	0.143501

Reviewer: boykink, 05-Sep-2020 00:03:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

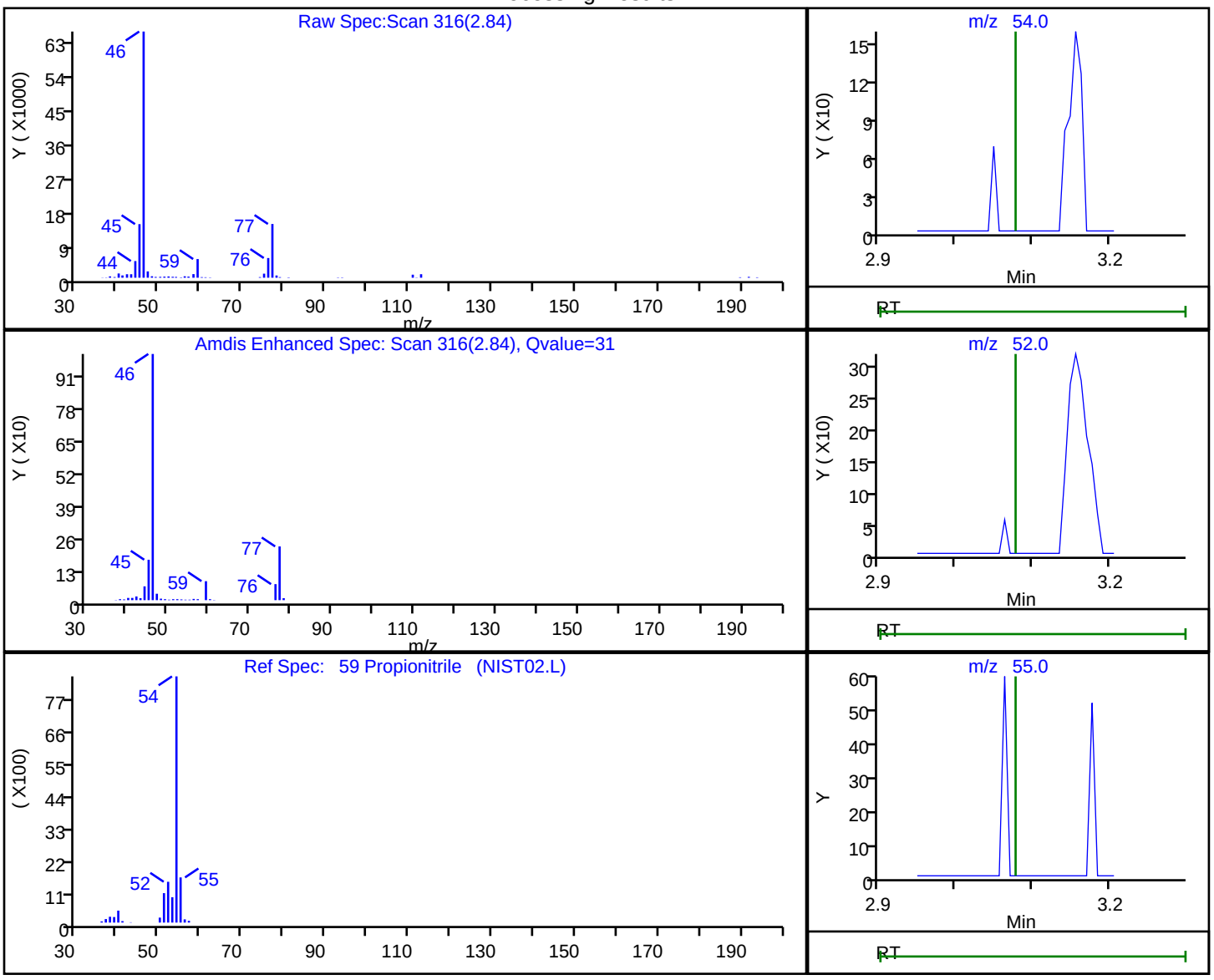
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
2.84	54.00	309	1.183645
2.83	52.00	616	
2.83	55.00	269	

Reviewer: boykink, 05-Sep-2020 00:03:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

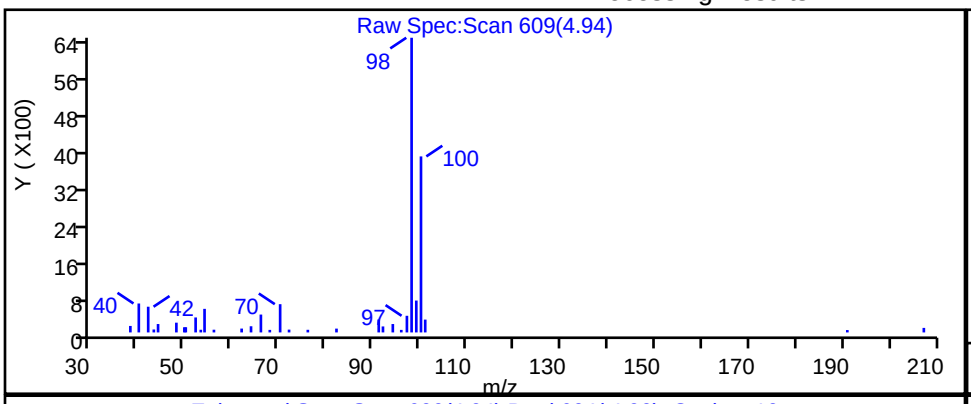
User Disabled Compound Report

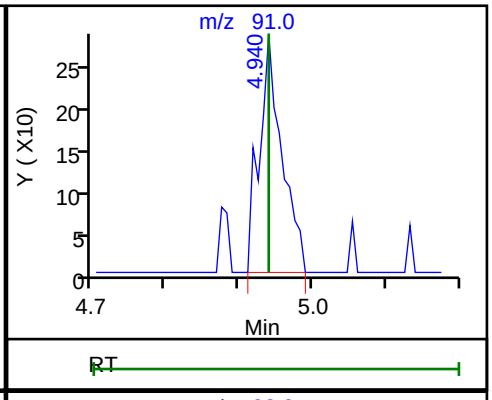
Eurofins TestAmerica, Edison

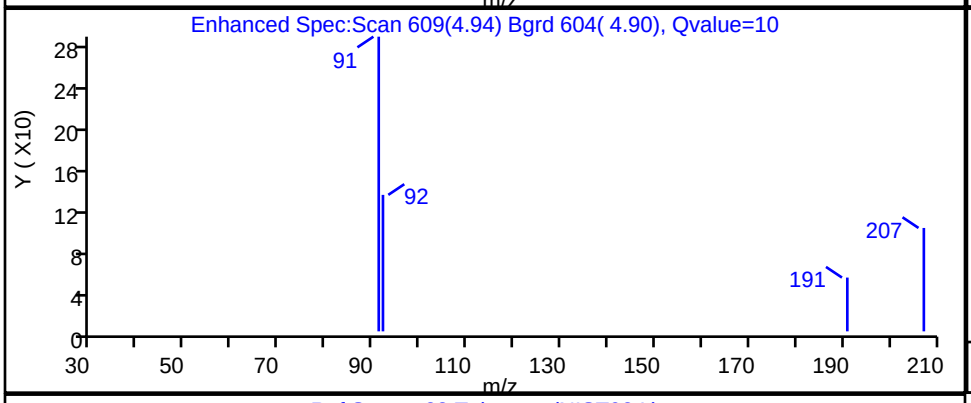
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

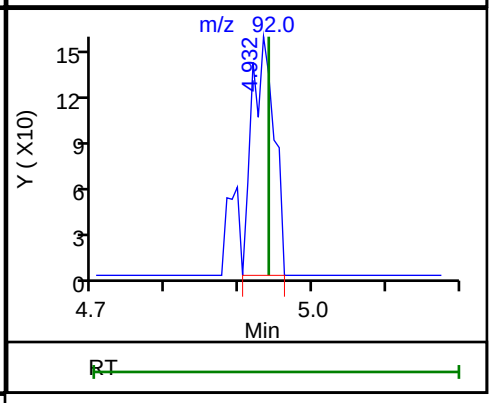
83 Toluene, CAS: 108-88-3

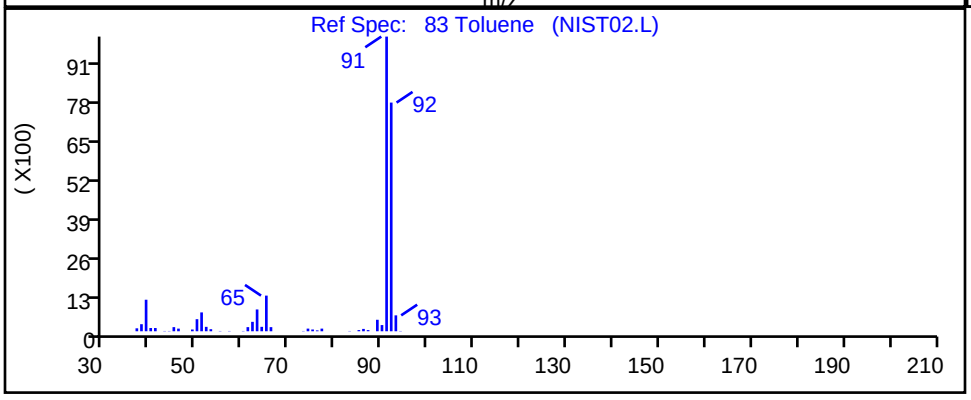
Processing Results











RT	Mass	Response	Amount
4.94	91.00	611	0.049766
4.93	92.00	330	

Reviewer: boykink, 05-Sep-2020 00:03:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

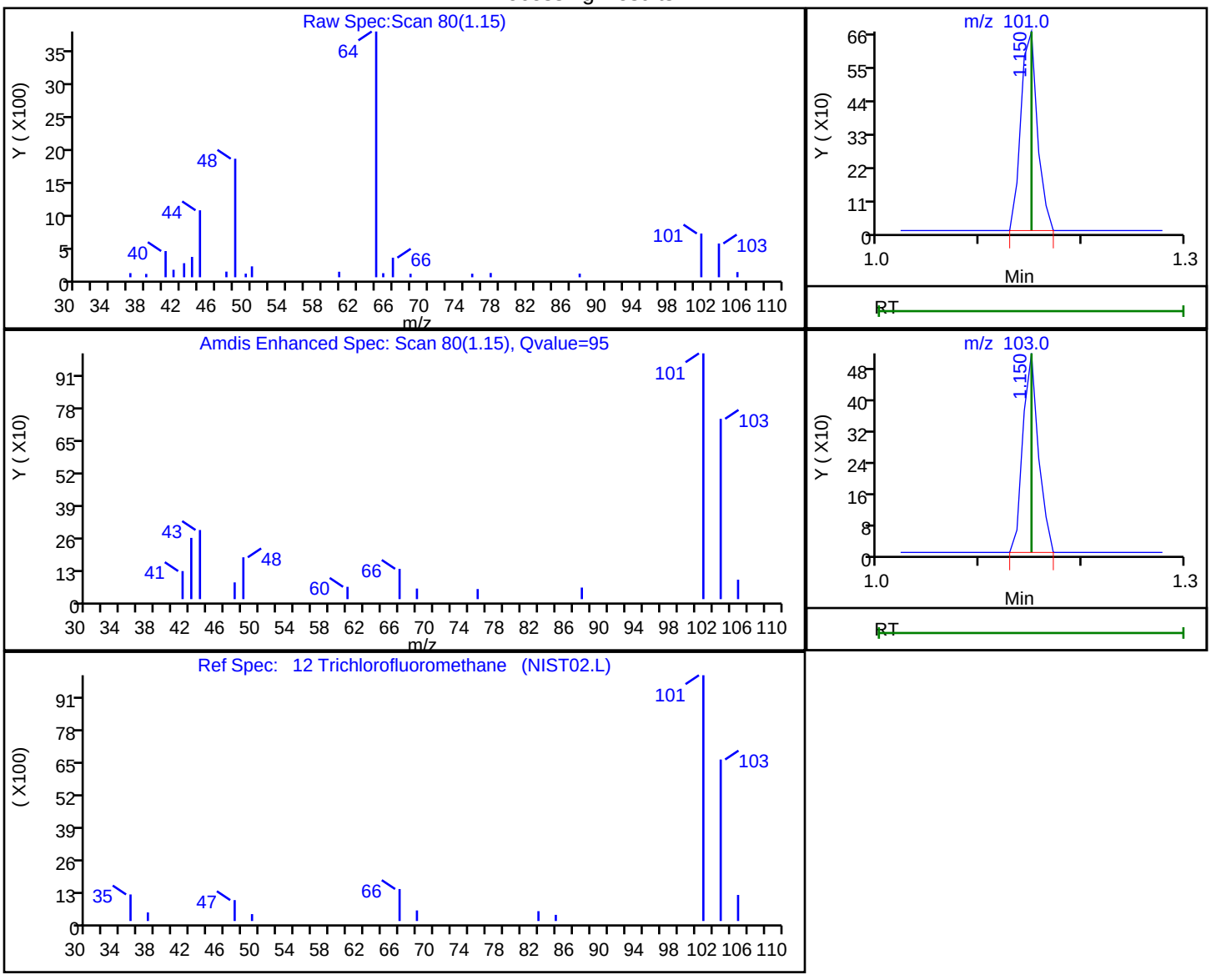
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.15	101.00	752	0.224057
1.15	103.00	546	

Reviewer: boykink, 05-Sep-2020 00:02:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

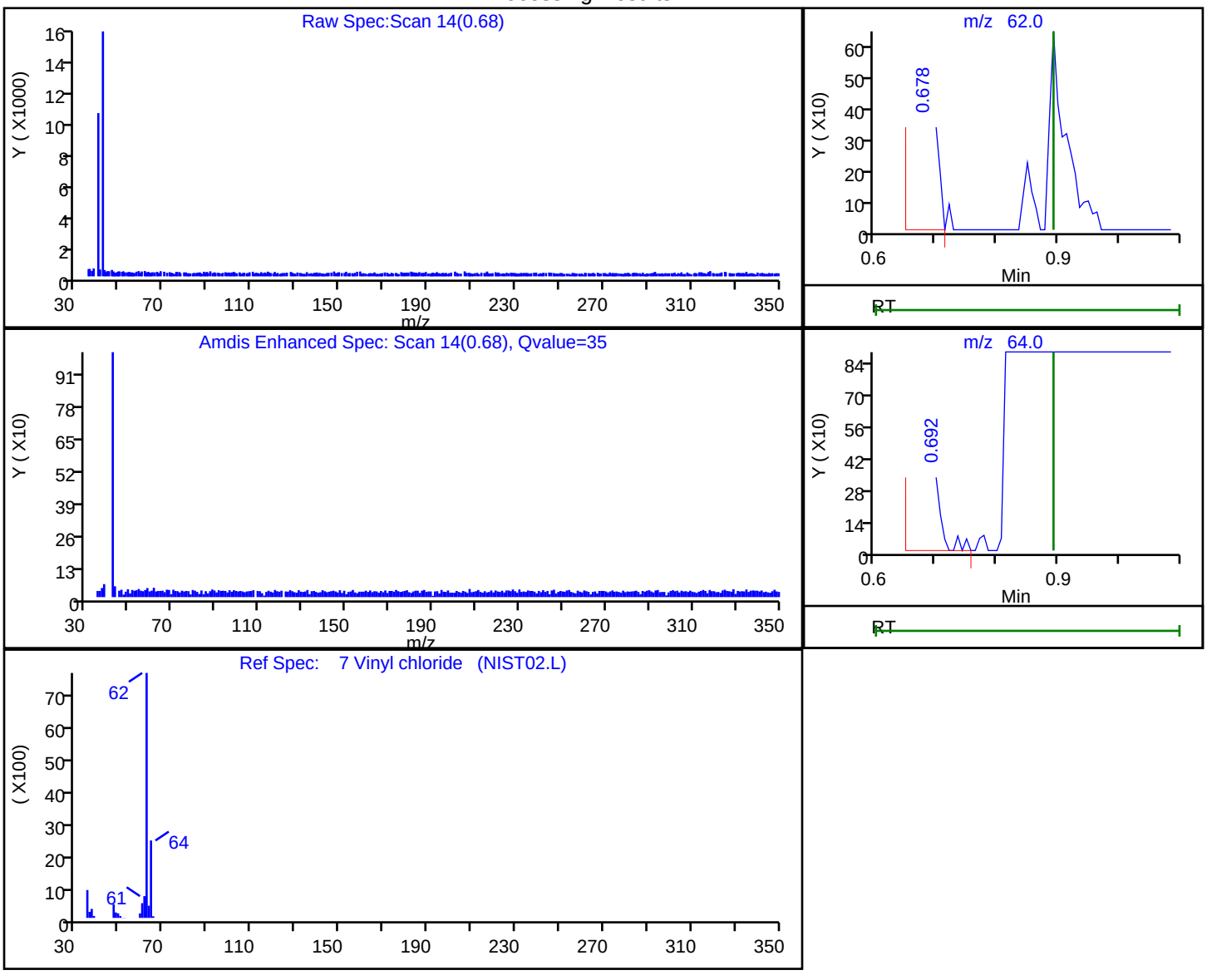
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79352.D
Injection Date: 04-Sep-2020 14:09:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	855	0.226508
0.69	64.00	891	

Reviewer: boykink, 05-Sep-2020 00:02:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Sep-2020 14:57:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0116303-004
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:37:57 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: baronm Date: 10-Sep-2020 10:29:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.735	0.721	0.014	34	260	1.00	1.09	Ma
2 Chlorotrifluoroethene	116	0.757	0.756	0.000	37	792	1.00	0.9370	a
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	95	3758	1.00	1.04	a
4 1,1-Difluoroethane	65	0.807	0.807	0.000	86	2330	1.00	1.35	
5 Chlorodifluoromethane	67	0.814	0.814	0.000	95	567	1.00	1.14	
6 Chloromethane	50	0.893	0.892	0.001	78	5585	1.00	1.10	
8 Butadiene	54	0.893	0.892	0.001	84	3584	1.00	1.06	
7 Vinyl chloride	62	0.893	0.892	0.001	55	4228	1.00	1.14	a
9 Bromomethane	94	1.043	1.036	0.007	91	1317	1.00	0.8664	
10 Chloroethane	64	1.100	1.093	0.007	68	1728	1.00	0.8760	Ma
11 Pentane	72	1.150	1.150	0.000	98	933	2.00	1.84	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	58	3466	1.00	1.02	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	96	5062	1.00	1.11	
14 2-Methyl-1,3-butadiene	67	1.294	1.286	0.008	96	3704	1.00	0.9499	
15 Ethyl ether	59	1.294	1.294	0.000	94	1790	1.00	0.9841	
17 1,1-Dichloroethene	96	1.394	1.387	0.007	98	2537	1.00	1.05	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	83	3776	1.00	1.07	
16 Ethanol	46	1.394	1.408	-0.014	24	520	40.0	53.3	a
19 Carbon disulfide	76	1.408	1.408	0.000	100	10501	1.00	1.11	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.416	1.408	0.008	69	2323	1.00	0.9798	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.416	1.415	0.001	88	3732	1.00	1.02	
22 Iodomethane	142	1.466	1.466	0.000	96	1799	1.00	0.4693	M
23 Cyclopentene	67	1.537	1.537	0.000	95	7175	1.00	1.07	
24 Acrolein	56	1.559	1.559	0.000	92	932	4.00	4.08	
25 3-Chloro-1-propene	76	1.630	1.630	0.000	94	1633	1.00	1.05	
26 Isopropyl alcohol	45	1.659	1.659	0.000	97	1270	10.0	13.4	
27 Methylene Chloride	84	1.695	1.695	0.000	92	3163	1.00	1.08	
28 Acetone	43	1.716	1.716	0.000	88	3151	5.00	6.45	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	2887	1.00	1.04	
30 Methyl acetate	43	1.788	1.781	0.007	95	2248	2.00	1.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	0.000	80	586	1.00	0.8765	
32 Methyl tert-butyl ether	73	1.838	1.838	0.000	89	5695	1.00	1.00	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	100	117526	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.903	1.902	0.001	95	2091	10.0	16.3	
35 Acetonitrile	41	1.981	1.981	0.000	90	2375	10.0	10.1	a
36 Isopropyl ether	45	2.060	2.053	0.007	97	8349	1.00	0.9410	
37 2-Chloro-1,3-butadiene	88	2.110	2.110	0.000	91	2424	1.00	0.9543	
38 1,1-Dichloroethane	63	2.125	2.117	0.008	100	5453	1.00	1.06	
39 Acrylonitrile	53	2.160	2.153	0.007	94	6770	10.0	10.2	
40 Tert-butyl ethyl ether	59	2.275	2.275	0.000	89	7049	1.00	0.9638	
41 Vinyl acetate	43	2.297	2.282	0.015	100	7828	2.00	1.98	
42 cis-1,2-Dichloroethene	96	2.468	2.461	0.007	95	3453	1.00	1.13	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	96	3651	1.00	1.05	
44 Cyclohexane	56	2.590	2.583	0.007	91	5092	1.00	0.9885	
45 Chlorobromomethane	128	2.597	2.590	0.007	92	1372	1.00	1.02	
46 Chloroform	83	2.655	2.647	0.008	97	4928	1.00	1.07	
47 Carbon tetrachloride	117	2.734	2.733	0.001	91	2759	1.00	1.01	
48 Ethyl acetate	70	2.762	2.748	0.014	94	324	2.00	1.68	
49 Methyl acrylate	55	2.755	2.748	0.007	76	1261	1.00	0.8679	
50 Tetrahydrofuran	42	2.762	2.755	0.007	77	1334	2.00	1.99	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	41	3821	1.00	1.03	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	98	117139	50.0	50.5	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	100	148550	250.0	250.0	
55 1,1-Dichloropropene	75	2.870	2.869	0.001	92	6214	1.00	1.55	a
54 2-Butanone (MEK)	72	2.884	2.869	0.015	83	1061	5.00	4.89	
56 Isooctane	57	2.956	2.955	0.001	99	7540	1.00	0.9274	
57 n-Heptane	57	3.056	3.049	0.007	51	1973	1.00	0.9885	
58 Benzene	78	3.056	3.056	0.000	95	12509	1.00	1.07	
59 Propionitrile	54	3.092	3.077	0.015	34	2300	10.0	9.22	a
60 Methacrylonitrile	67	3.099	3.092	0.007	91	6544	10.0	8.85	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	116479	50.0	50.0	
62 Tert-amyl methyl ether	73	3.170	3.163	0.007	38	5489	1.00	0.9020	
63 1,2-Dichloroethane	62	3.221	3.213	0.008	92	3385	1.00	1.13	
64 Isobutyl alcohol	43	3.299	3.292	0.007	94	1488	25.0	23.7	a
65 t-Amyl alcohol	59	3.371	3.357	0.014	84	1000	10.0	9.81	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	538450	50.0	50.0	
67 Isopropyl acetate	43	3.471	3.457	0.014	89	3423	1.00	1.00	
68 Methylcyclohexane	83	3.514	3.507	0.007	95	4411	1.00	0.9282	
69 Trichloroethene	130	3.543	3.536	0.007	96	2893	1.00	1.00	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	94	5420	1.00	0.9035	
71 Dibromomethane	93	3.908	3.894	0.014	91	1153	1.00	0.8895	
72 n-Butanol	56	3.958	3.915	0.043	31	341	25.0	8.84	a
73 1,2-Dichloropropane	63	3.987	3.980	0.007	86	2789	1.00	0.9582	
75 Dichlorobromomethane	83	4.073	4.066	0.007	97	2981	1.00	0.9336	
74 Ethyl acrylate	55	4.116	4.066	0.050	32	1080	1.00	1.02	a
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	15928	1000.0	1000.0	
77 Methyl methacrylate	100	4.274	4.259	0.015	94	686	2.00	1.58	
78 1,4-Dioxane	88	4.274	4.273	0.001	51	890	50.0	48.5	
79 n-Propyl acetate	43	4.445	4.417	0.028	96	1797	1.00	0.8209	M
81 cis-1,3-Dichloropropene	75	4.718	4.696	0.022	91	3467	1.00	0.9014	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	100	486030	50.0	50.1	
83 Toluene	91	4.940	4.940	0.000	93	12488	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Epichlorohydrin	57	5.026	4.983	0.043	6	457	20.0	9.00	a
85 2-Nitropropane	41	5.212	5.197	0.015	72	595	2.00	2.06	a
86 Tetrachloroethene	166	5.370	5.362	0.008	94	2994	1.00	1.07	
87 4-Methyl-2-pentanone (MIBK)	43	5.420	5.405	0.015	95	6526	5.00	4.25	
88 trans-1,3-Dichloropropene	75	5.491	5.441	0.050	89	2316	1.00	0.7576	
89 1,1,2-Trichloroethane	83	5.627	5.606	0.021	90	1565	1.00	0.9620	
90 Ethyl methacrylate	69	5.728	5.699	0.029	32	1777	1.00	0.7772	a
91 Chlorodibromomethane	129	5.821	5.799	0.022	90	2087	1.00	0.99	
92 1,3-Dichloropropane	76	5.935	5.914	0.021	90	3102	1.00	0.9162	
93 Ethylene Dibromide	107	6.086	6.050	0.036	85	1523	1.00	0.8714	
94 n-Butyl acetate	43	6.430	6.401	0.029	93	1329	1.00	1.02	
95 2-Hexanone	43	6.487	6.458	0.029	96	3781	5.00	3.67	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	376063	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	90	7634	1.00	1.02	
98 Ethylbenzene	106	6.838	6.831	0.007	98	4244	1.00	1.01	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	87	2037	1.00	0.8806	
100 m-Xylene & p-Xylene	106	7.074	7.046	0.028	0	3984	1.00	0.8111	
101 o-Xylene	106	7.640	7.626	0.014	96	5124	1.00	1.03	
102 Bromoform	173	7.719	7.690	0.029	84	1085	1.00	0.9149	
103 Styrene	104	7.762	7.719	0.043	94	7343	1.00	0.9234	a
104 n-Butyl acrylate	73	8.099	8.056	0.043	31	835	1.00	1.01	M
105 Isopropylbenzene	105	8.120	8.113	0.007	96	13158	1.00	1.02	
106 Amyl acetate (mixed isomers)	43	8.514	8.471	0.043	64	1912	1.00	1.03	a
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	93	156709	50.0	51.5	
108 Bromobenzene	156	8.593	8.586	0.007	98	2820	1.00	0.9020	
109 N-Propylbenzene	91	8.758	8.743	0.015	99	14685	1.00	0.9387	
110 1,1,2,2-Tetrachloroethane	83	8.915	8.894	0.021	46	1926	1.00	0.8881	
111 2-Chlorotoluene	91	8.930	8.908	0.022	97	11854	1.00	1.10	
112 4-Ethyltoluene	105	8.951	8.929	0.022	97	12311	1.00	0.9472	
113 1,2,3-Trichloropropane	110	9.058	9.023	0.035	84	423	1.00	0.7374	
114 1,3,5-Trimethylbenzene	105	9.101	9.087	0.014	95	10115	1.00	0.9326	
116 4-Chlorotoluene	91	9.216	9.173	0.043	97	8324	1.00	0.8787	
117 tert-Butylbenzene	119	9.553	9.545	0.008	95	9515	1.00	1.01	
118 1,2,4-Trimethylbenzene	105	9.703	9.682	0.021	96	10649	1.00	0.9518	
119 Butyl Methacrylate	87	9.717	9.696	0.021	91	2025	1.00	1.02	
120 sec-Butylbenzene	105	9.846	9.839	0.007	99	14242	1.00	1.00	
121 1,3-Dichlorobenzene	146	10.119	10.097	0.022	70	5778	1.00	0.9355	
122 4-Isopropyltoluene	119	10.126	10.118	0.008	98	11647	1.00	0.9694	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	95	211533	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.247	0.001	91	6840	1.00	1.05	
125 1,2,3-Trimethylbenzene	105	10.369	10.355	0.014	98	11009	1.00	0.9710	
126 2,3-Dihydroindene	117	10.548	10.527	0.021	93	11199	1.00	1.02	
127 Benzyl chloride	126	10.756	10.713	0.043	65	345	1.00	1.03	
128 p-Diethylbenzene	119	10.742	10.727	0.015	94	5808	1.00	0.9593	
129 n-Butylbenzene	91	10.828	10.813	0.015	96	10289	1.00	0.9392	
130 1,2-Dichlorobenzene	146	10.950	10.921	0.029	94	5315	1.00	0.9402	
131 1,2,4,5-Tetramethylbenzene	119	11.938	11.924	0.014	96	8988	1.00	0.8524	
132 1,2-Dibromo-3-Chloropropane	157	12.096	12.074	0.022	1	278	1.00	0.7701	
133 1,3,5-Trichlorobenzene	180	12.153	12.124	0.029	96	3817	1.00	0.8514	
134 1,2,4-Trichlorobenzene	180	12.862	12.819	0.043	60	3454	1.00	0.9179	
135 Hexachlorobutadiene	225	12.841	12.840	0.001	95	1831	1.00	1.10	
136 Naphthalene	128	13.149	13.127	0.022	99	8490	1.00	1.22	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
137 1,2,3-Trichlorobenzene	180	13.313	13.299	0.014	94	3159	1.00	1.03	
S 138 1,2-Dichloroethene, Total	100				0		2.00	2.17	
S 139 1,3-Dichloropropene, Total	100				0		2.00	1.66	
S 140 Xylenes, Total	100				0		2.00	1.84	
S 142 Total BTEX	1				0		5.00	4.97	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	10.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
GASES Li_00384	Amount Added:	10.00	Units: uL	
14DIOXINTER_00118	Amount Added:	30.00	Units: uL	
524freon_00027	Amount Added:	10.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 10:38:00 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D

Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13 Operator ID:

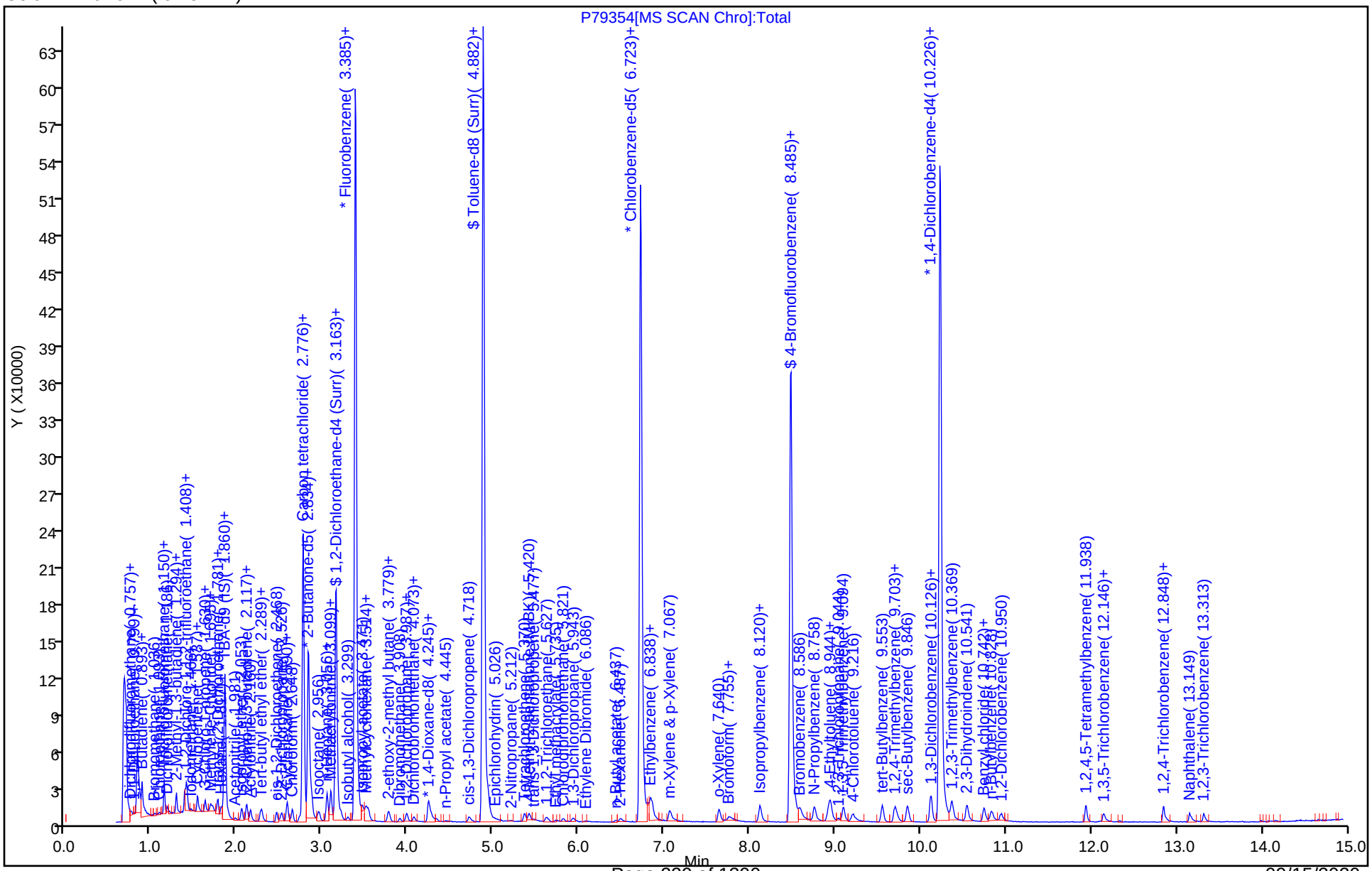
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

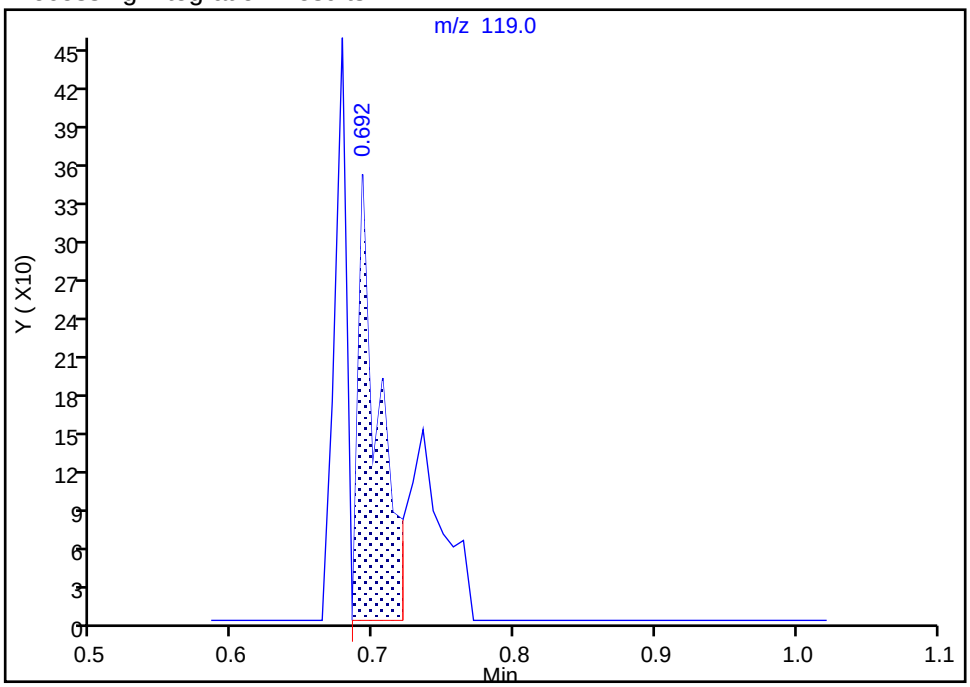
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Monochloropentafluoroethane, CAS: 76-15-3

Signal: 1

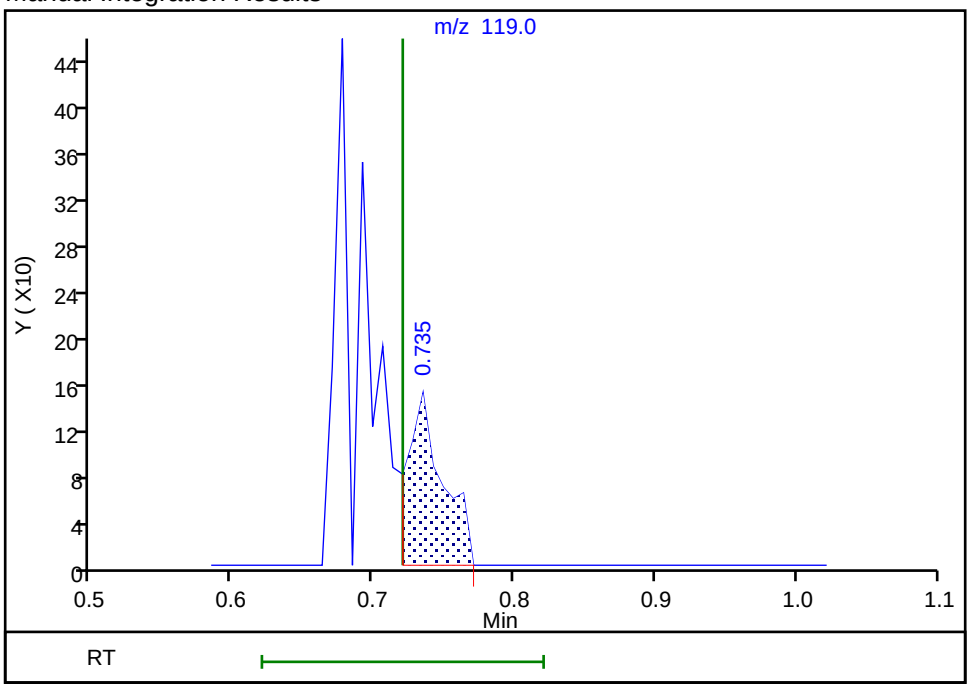
Processing Integration Results

RT: 0.69
Area: 350
Amount: 1.495826
Amount Units: ug/l



Manual Integration Results

RT: 0.74
Area: 260
Amount: 1.094902
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 11:56:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

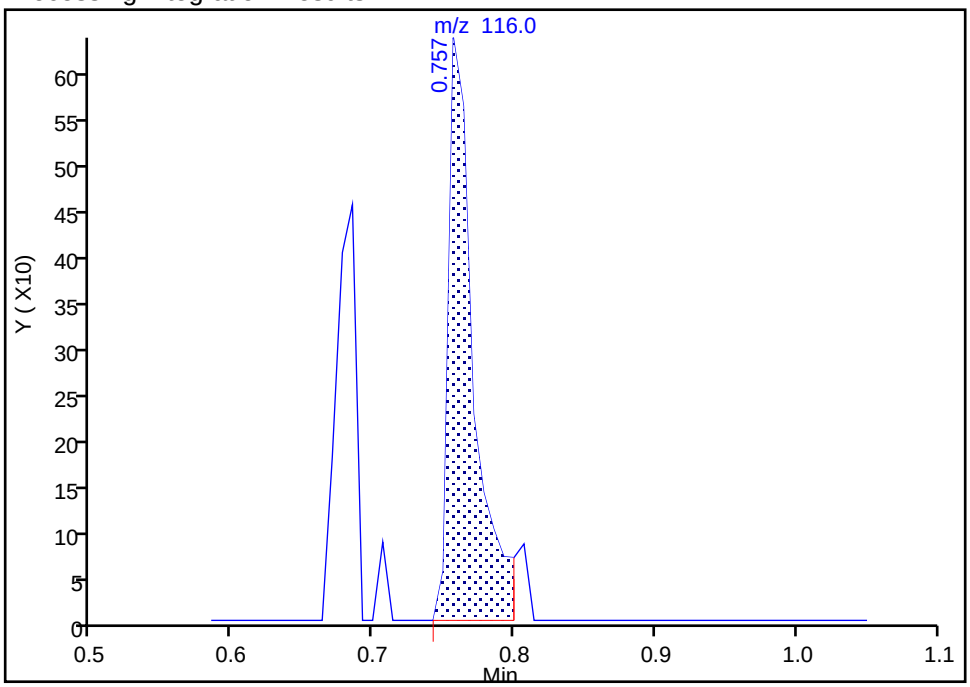
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

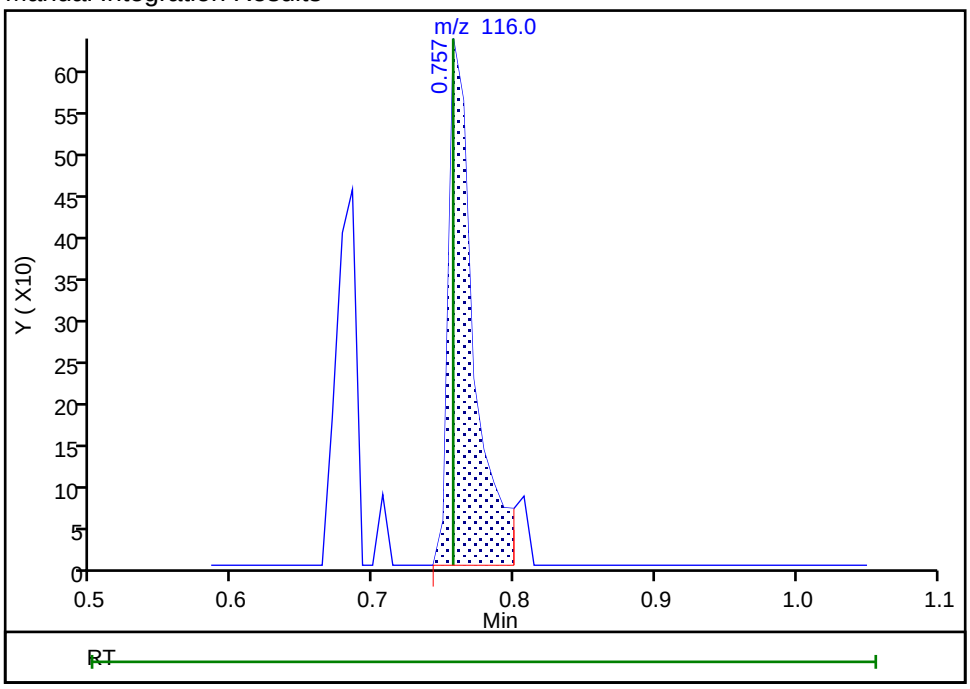
Processing Integration Results

RT: 0.76
Area: 792
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 0.76
Area: 792
Amount: 0.937050
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:47:15
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

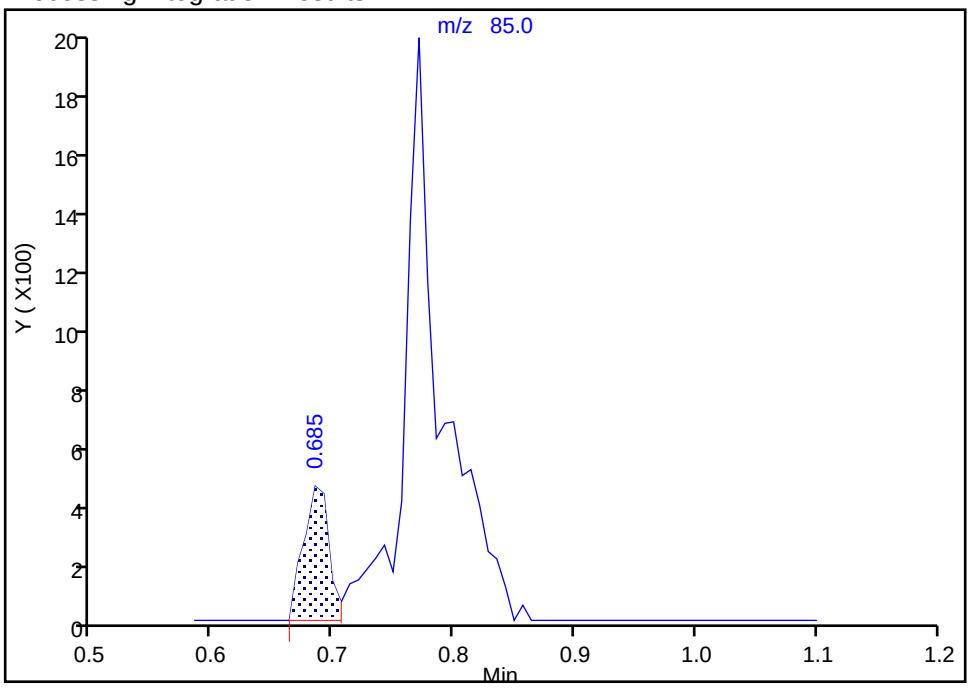
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

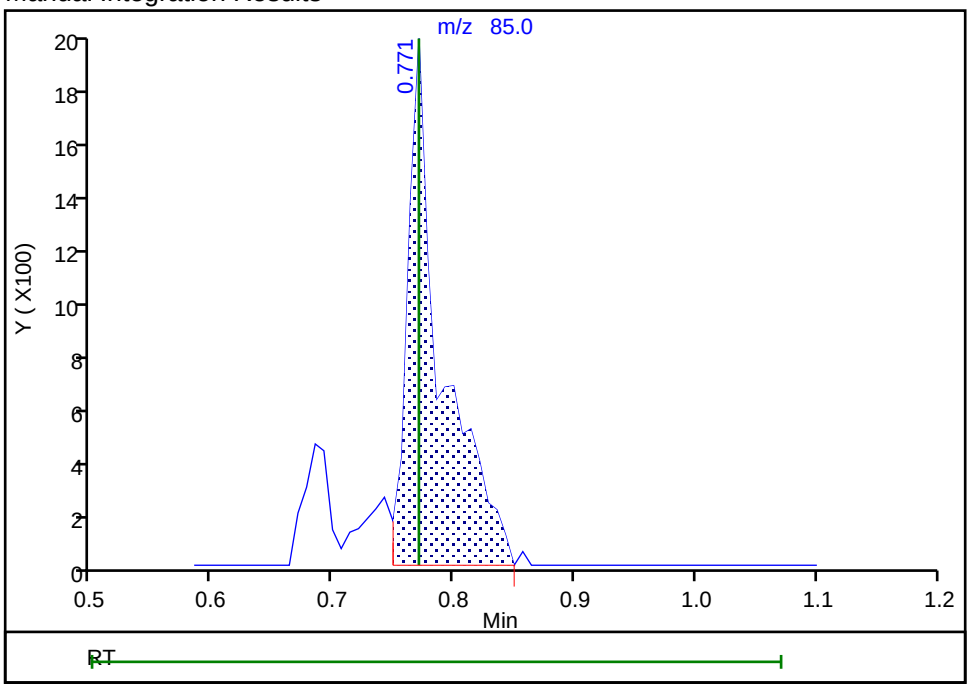
Processing Integration Results

RT: 0.68
Area: 658
Amount: 0.308765
Amount Units: ug/l



Manual Integration Results

RT: 0.77
Area: 3758
Amount: 1.035338
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:19:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

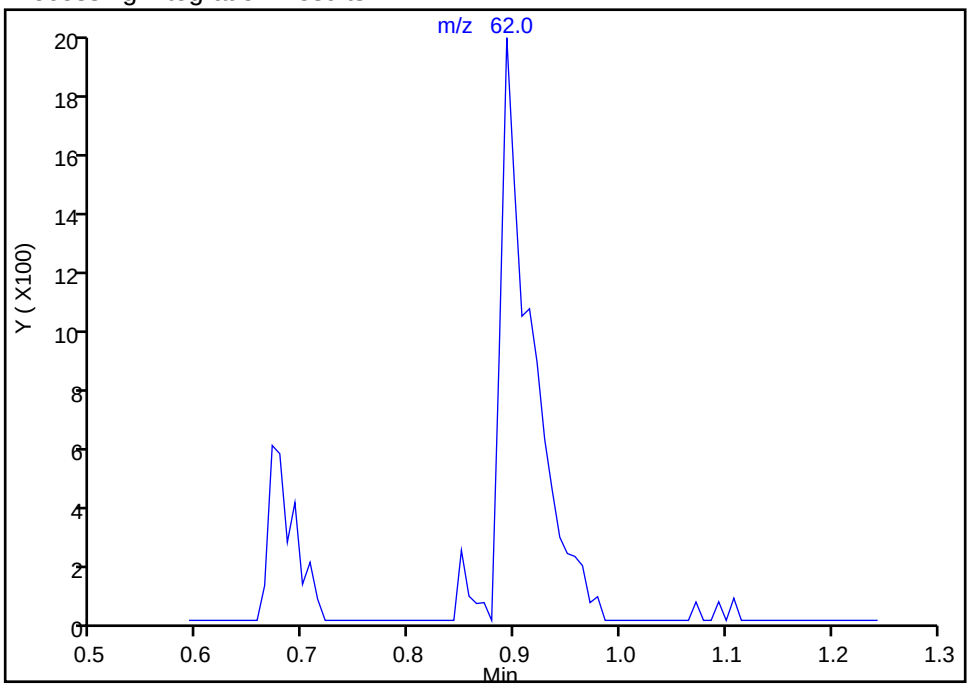
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

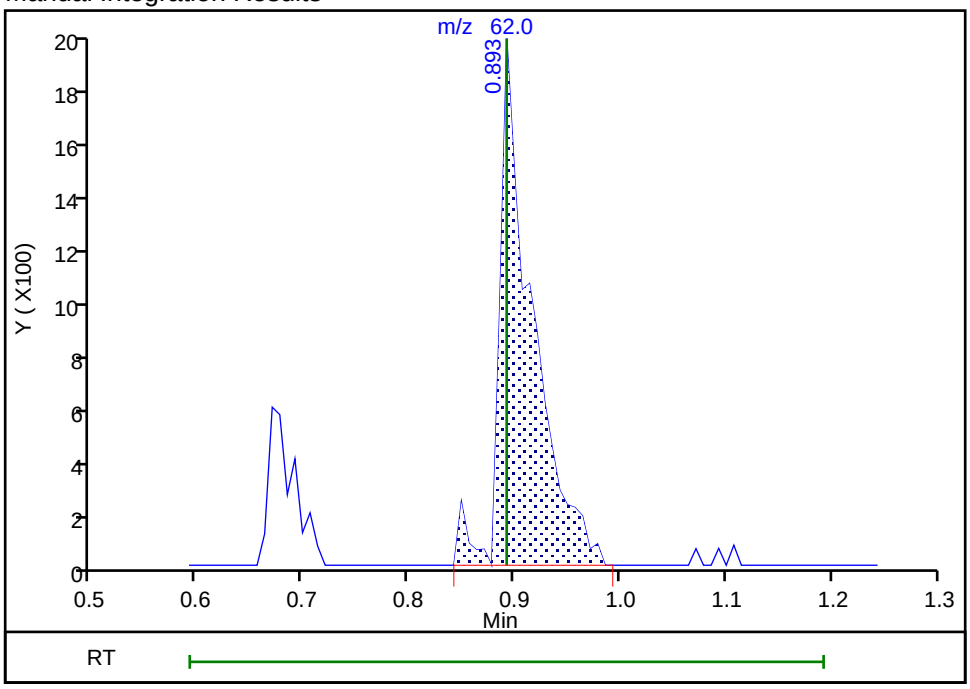
Not Detected
Expected RT: 0.89

Processing Integration Results



Manual Integration Results

RT: 0.89
Area: 4228
Amount: 1.138764
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:16:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

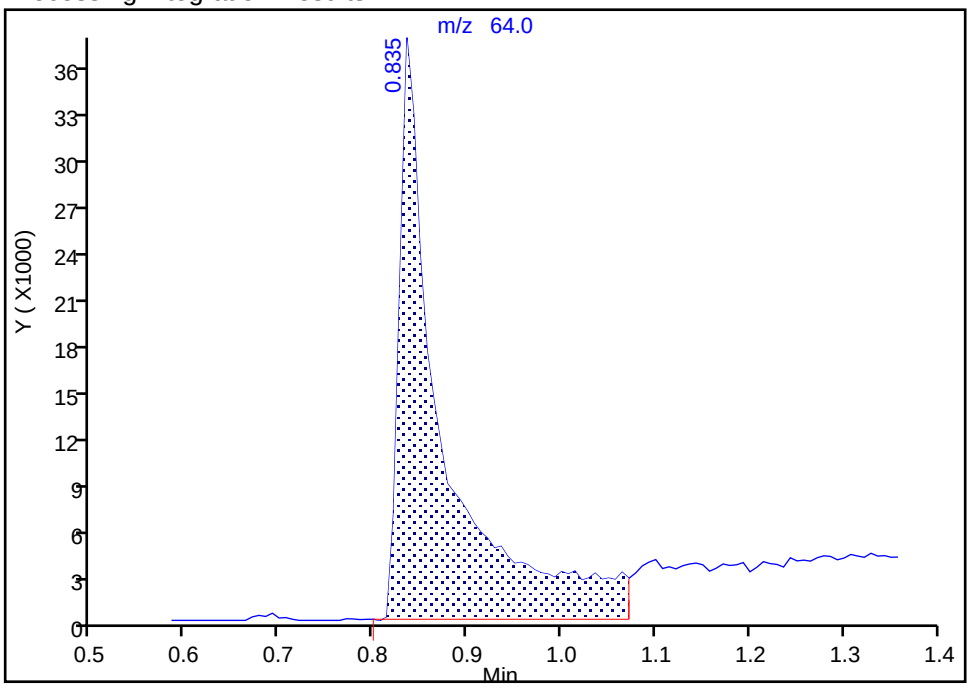
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Chloroethane, CAS: 75-00-3

Signal: 1

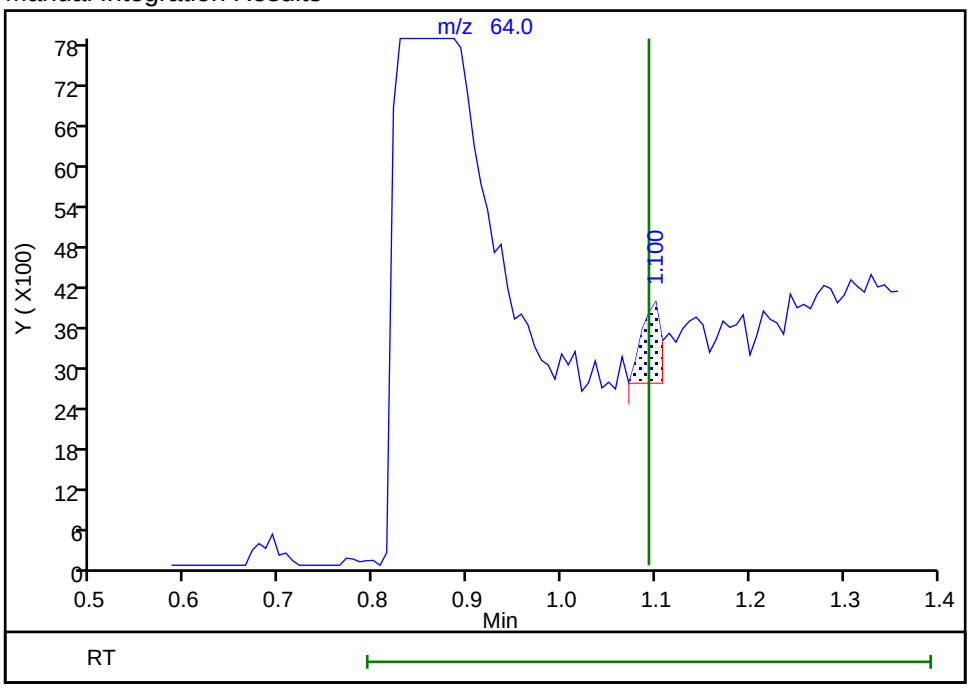
Processing Integration Results

RT: 0.84
Area: 120203
Amount: 0.236987
Amount Units: ug/l



Manual Integration Results

RT: 1.10
Area: 1728
Amount: 0.876002
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:47:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

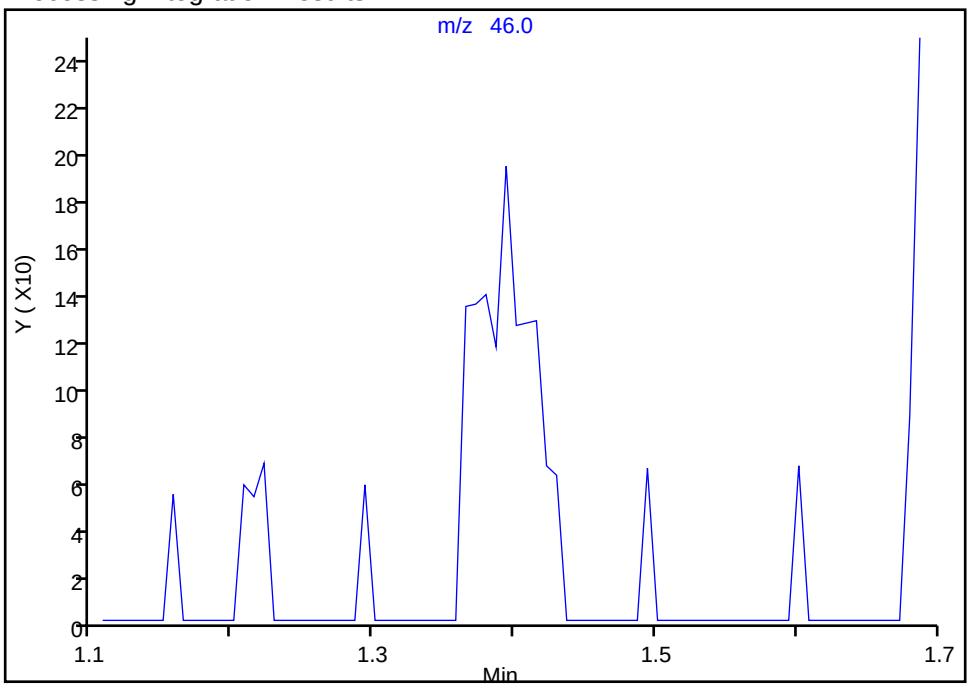
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

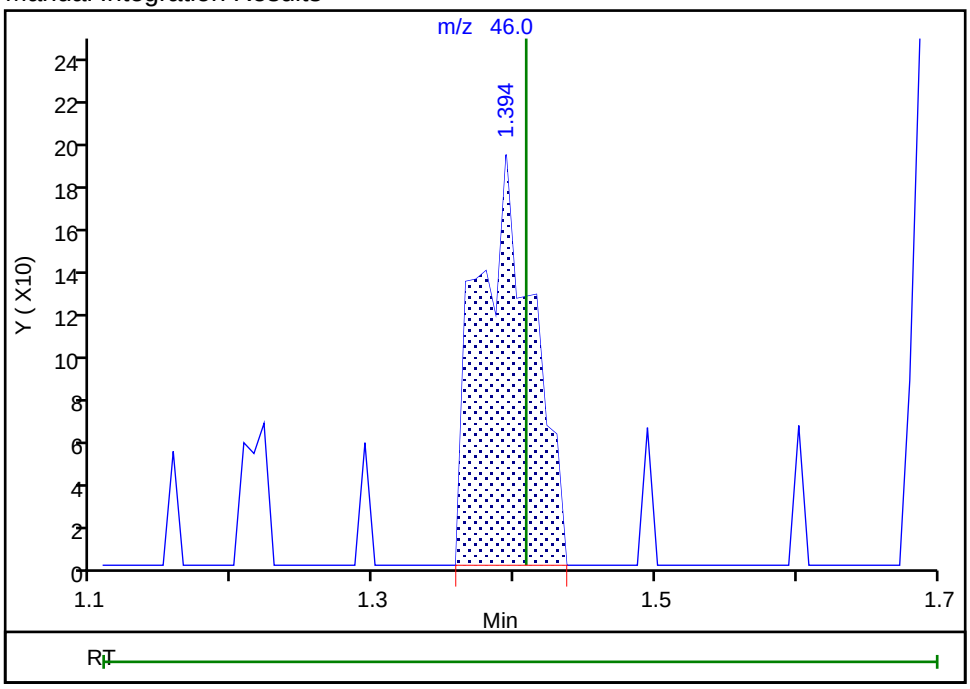
Not Detected
Expected RT: 1.41

Processing Integration Results



Manual Integration Results

RT: 1.39
Area: 520
Amount: 53.328039
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:20:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

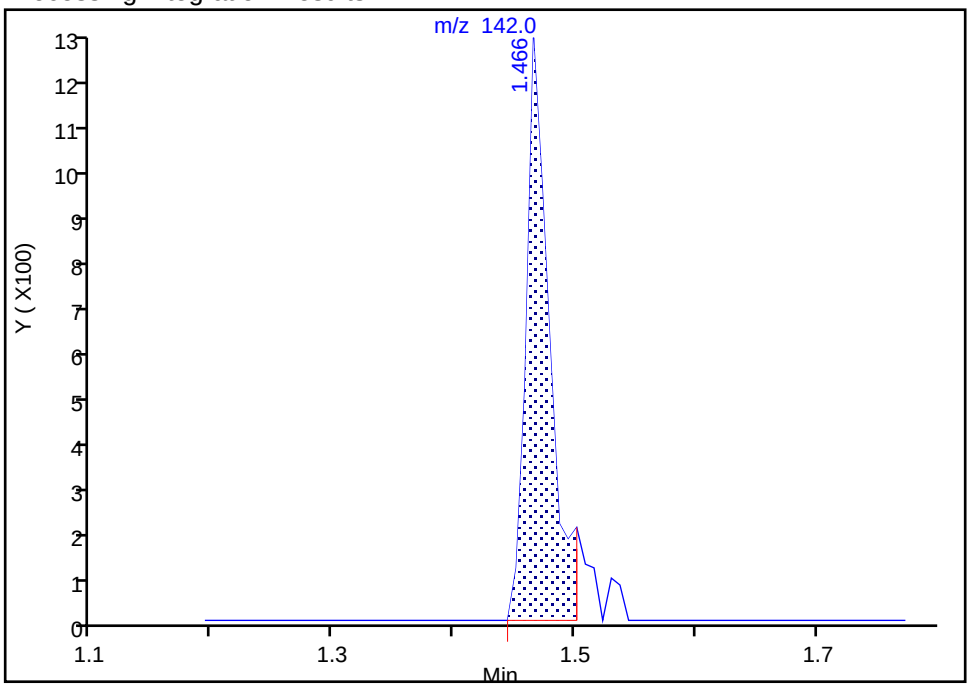
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

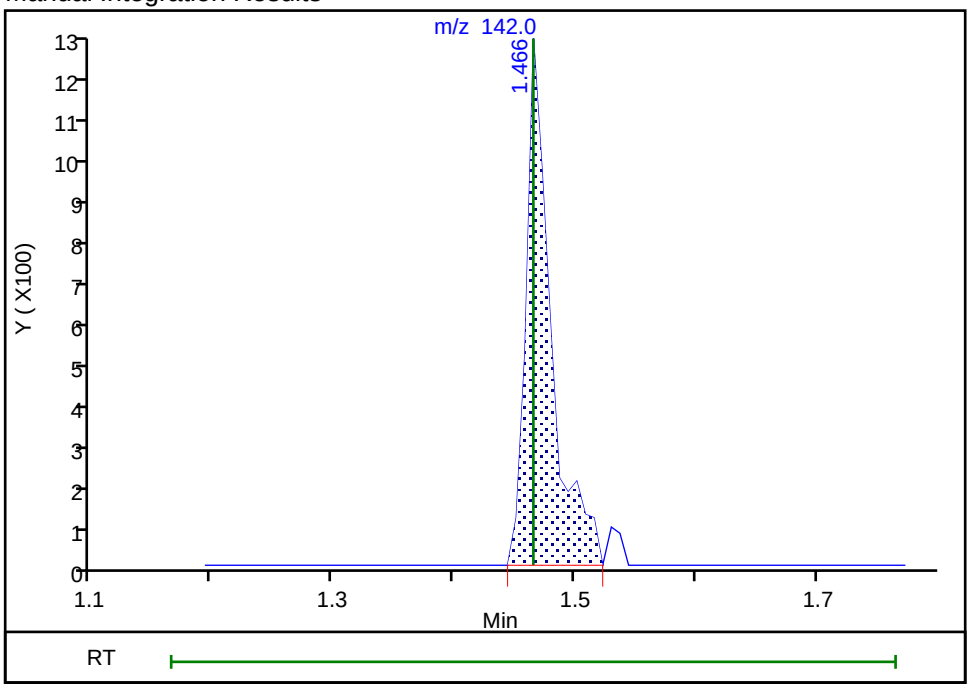
Processing Integration Results

RT: 1.47
Area: 1698
Amount: 0.442951
Amount Units: ug/l



Manual Integration Results

RT: 1.47
Area: 1799
Amount: 0.469297
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:24:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

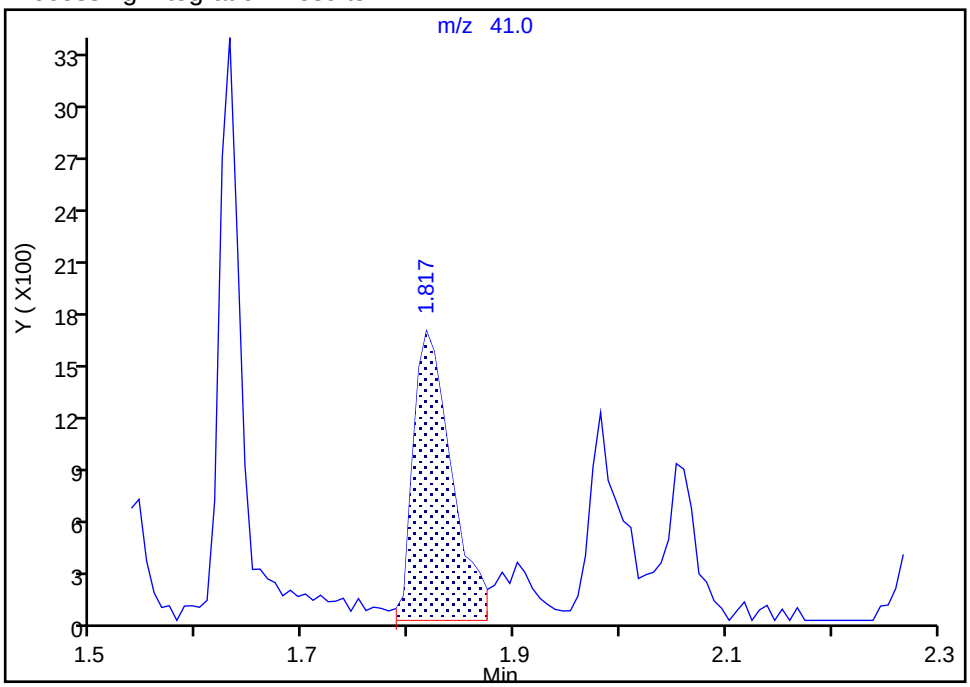
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

35 Acetonitrile, CAS: 75-05-8

Signal: 1

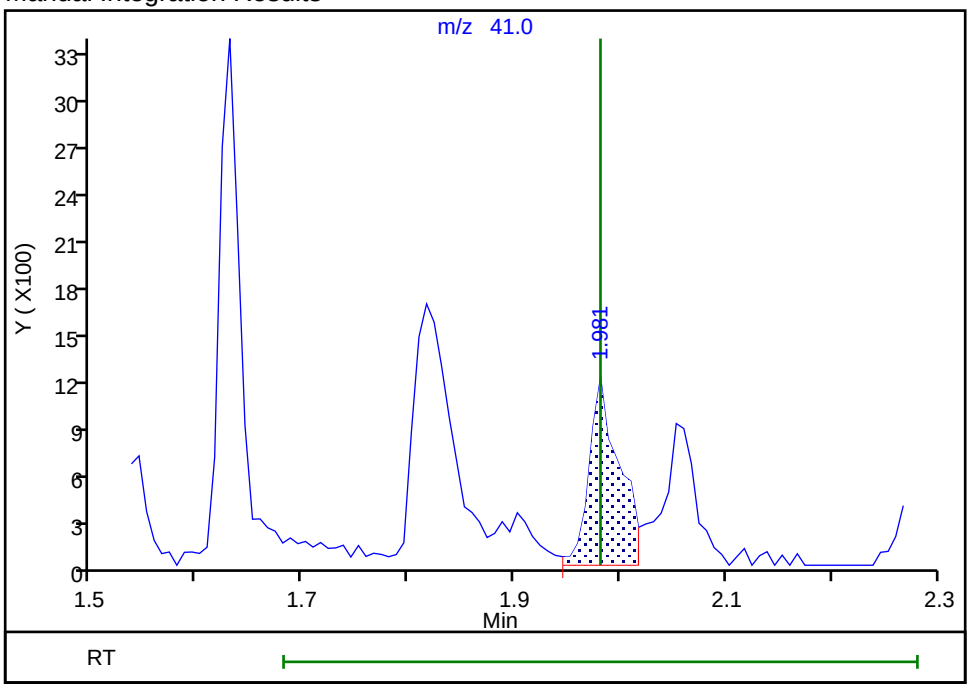
Processing Integration Results

RT: 1.82
Area: 4175
Amount: 9.993630
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 2375
Amount: 10.106438
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:47:41
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

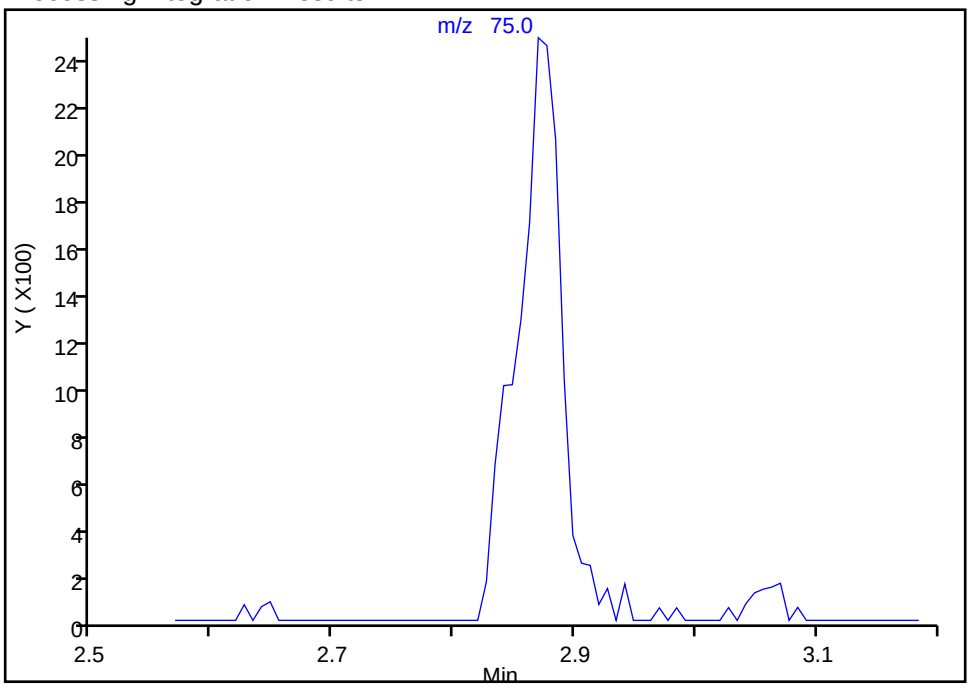
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

55 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

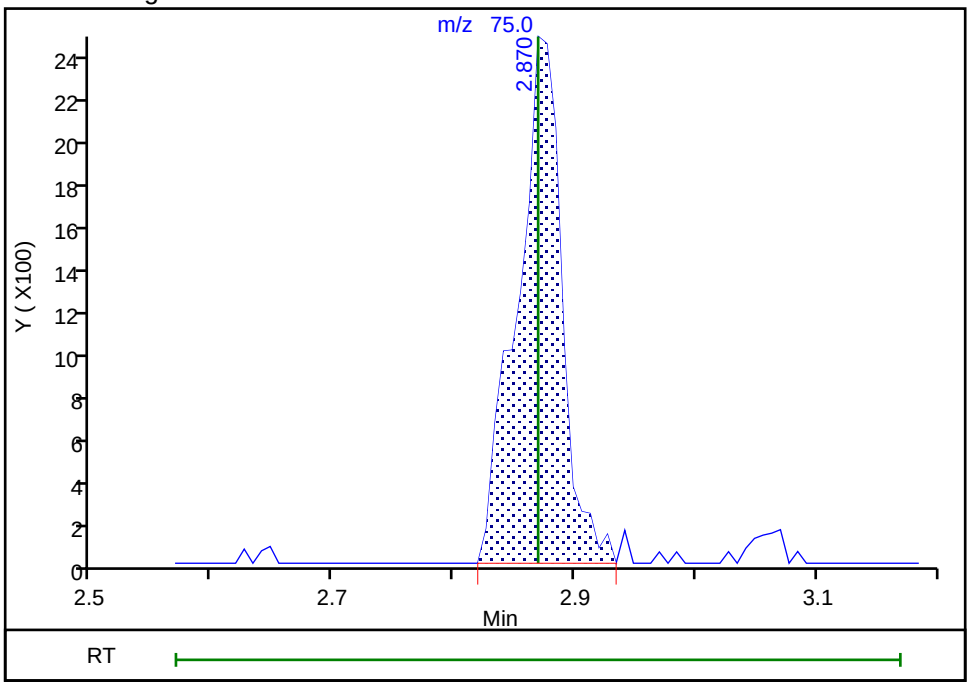
Not Detected
Expected RT: 2.87

Processing Integration Results



Manual Integration Results

RT: 2.87
Area: 6214
Amount: 1.546934
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:18:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

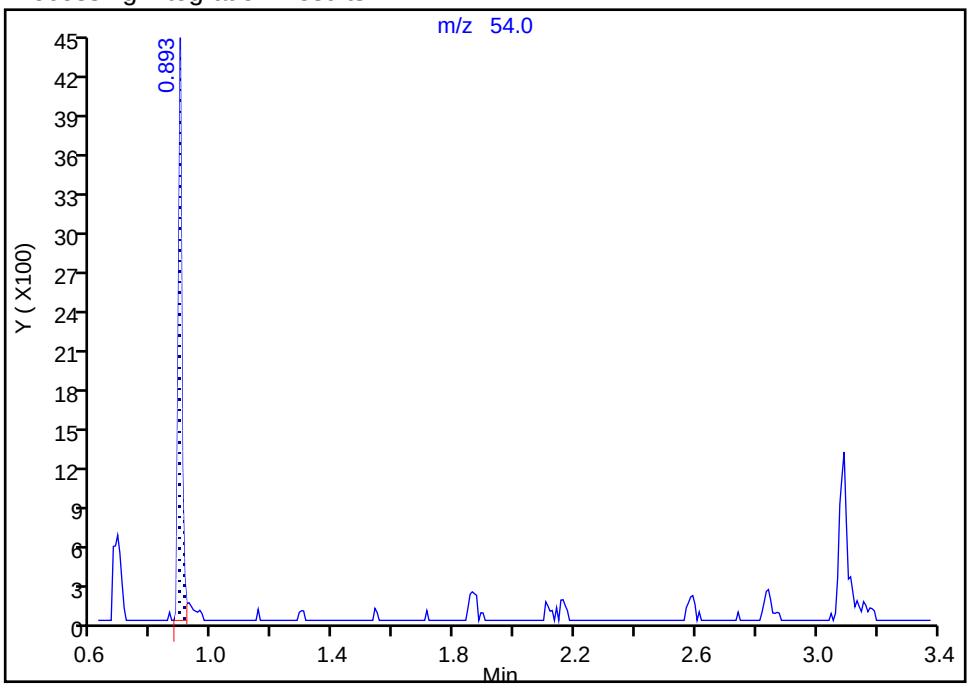
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 Propionitrile, CAS: 107-12-0

Signal: 1

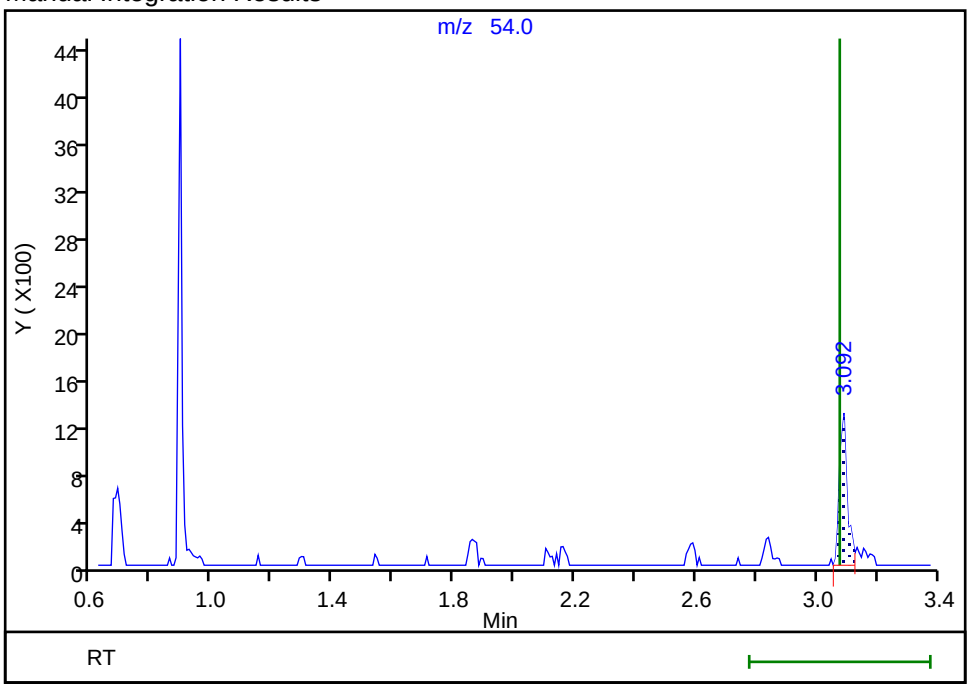
Processing Integration Results

RT: 0.89
Area: 3584
Amount: 13.553221
Amount Units: ug/l



Manual Integration Results

RT: 3.09
Area: 2300
Amount: 9.223009
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:07:09
Audit Action: Located Compound Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

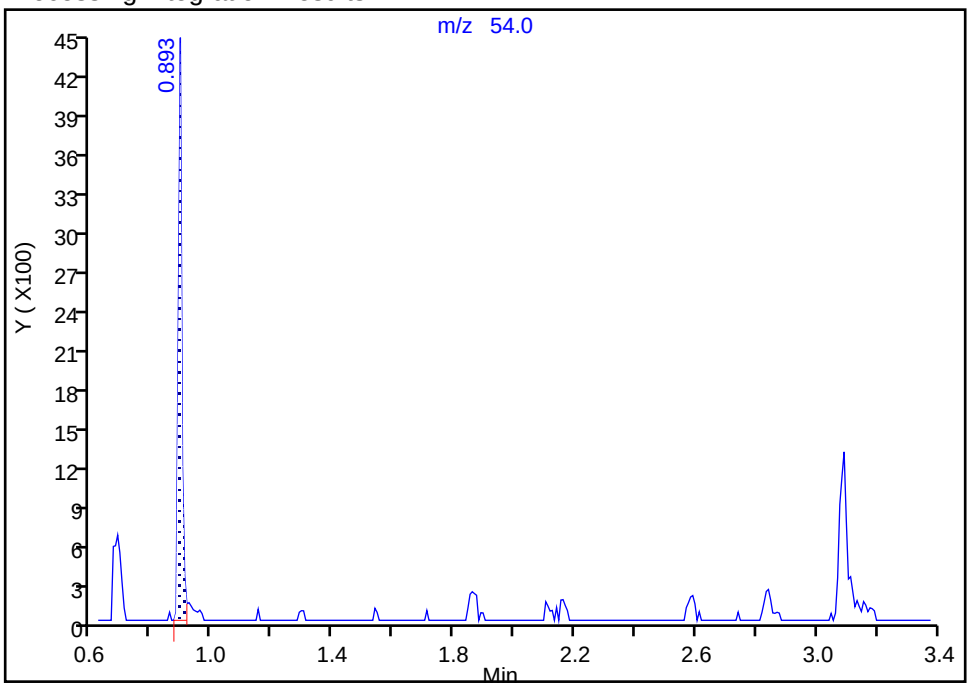
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 Propionitrile, CAS: 107-12-0

Signal: 1

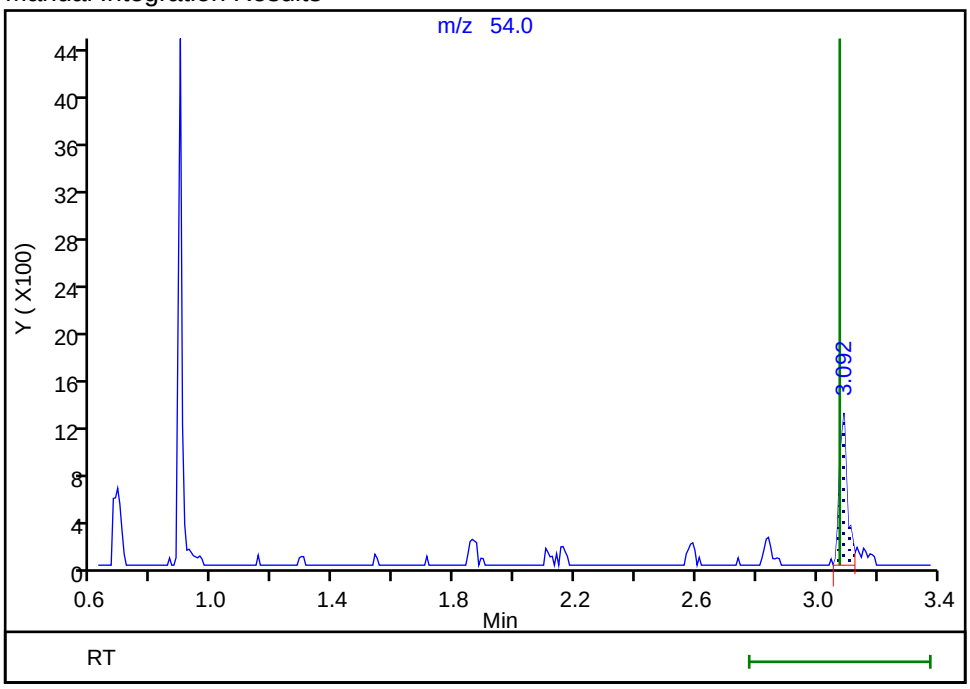
Processing Integration Results

RT: 0.89
Area: 3584
Amount: 13.553221
Amount Units: ug/l



Manual Integration Results

RT: 3.09
Area: 2300
Amount: 9.223009
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 11:57:01
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

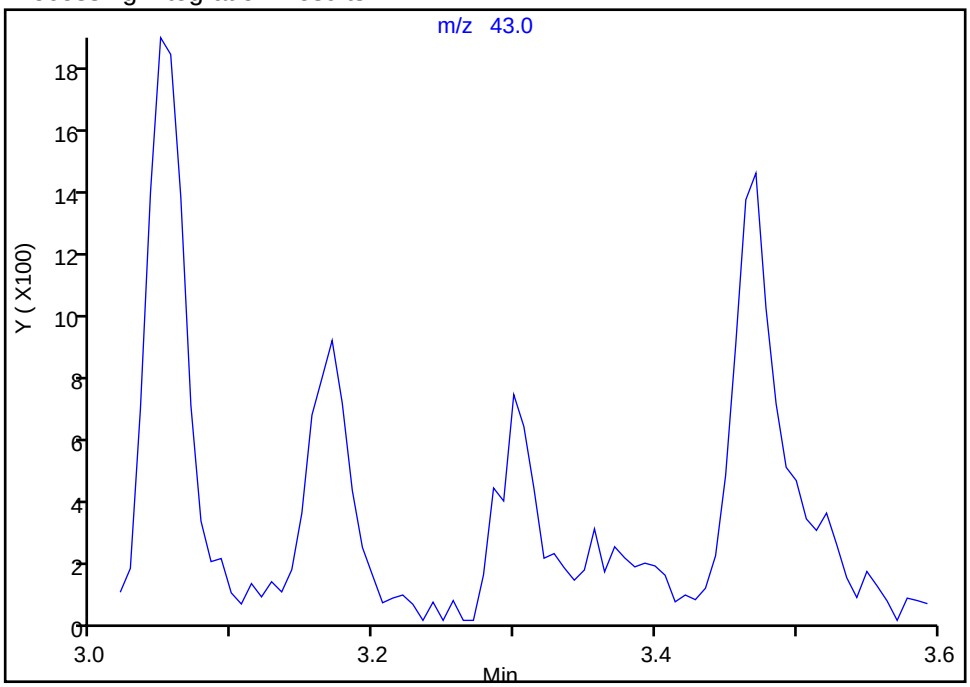
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

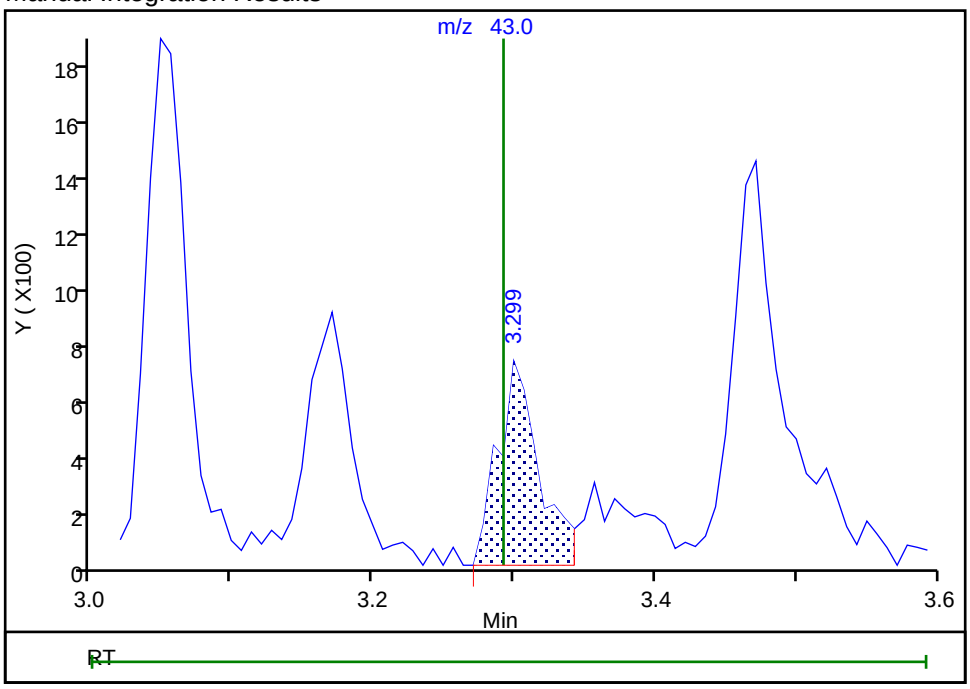
Not Detected
Expected RT: 3.29

Processing Integration Results



Manual Integration Results

RT: 3.30
Area: 1488
Amount: 23.679494
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:18:11
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

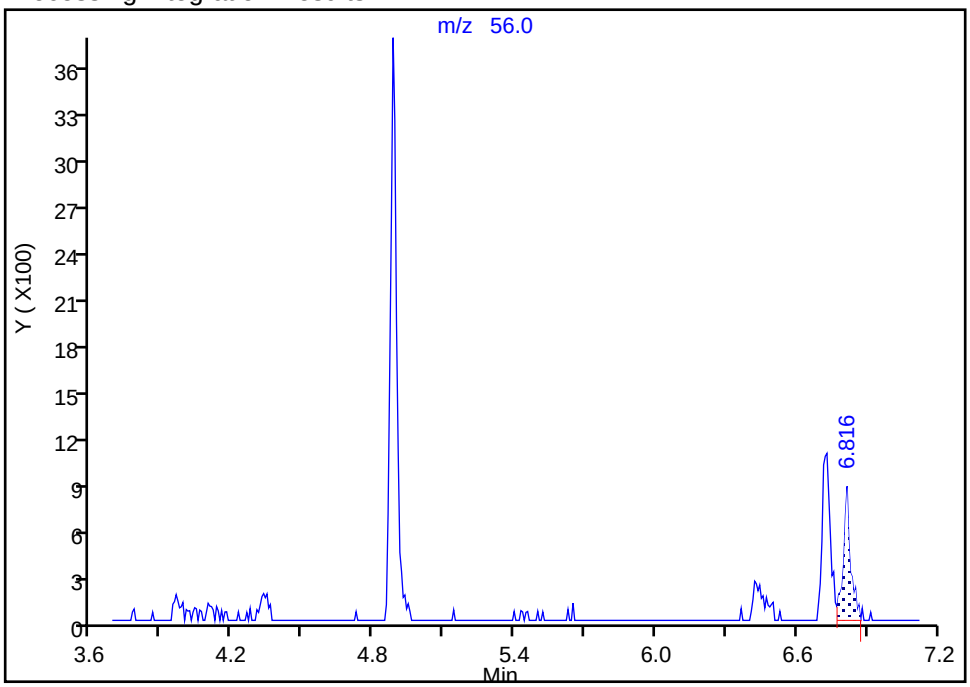
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

72 n-Butanol, CAS: 71-36-3

Signal: 1

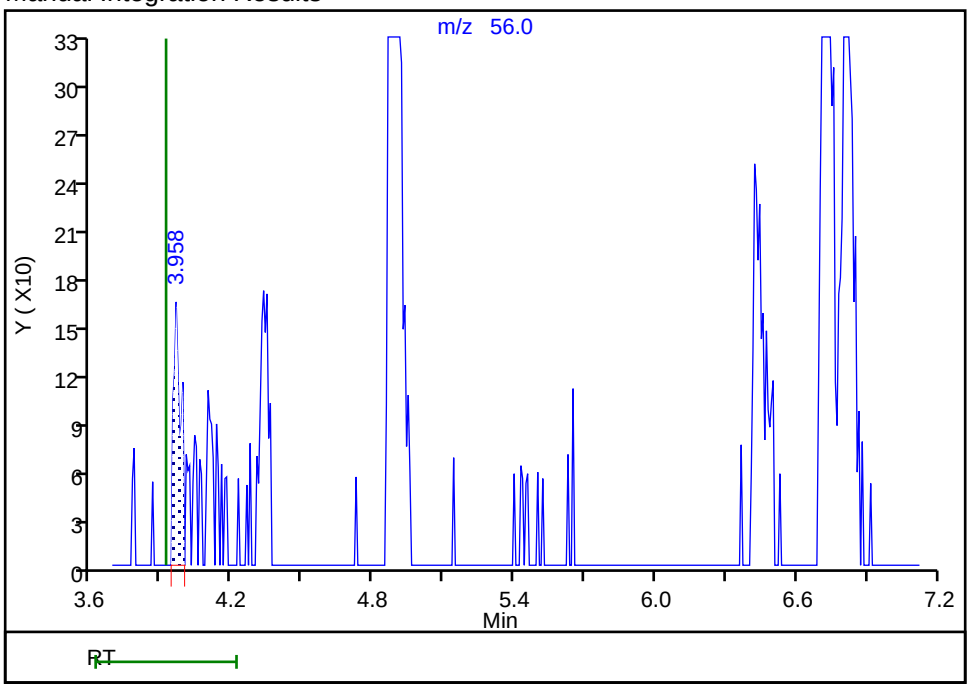
Processing Integration Results

RT: 6.82
Area: 1786
Amount: 46.291533
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 341
Amount: 8.843967
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:07:32
Audit Action: Located Compound Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

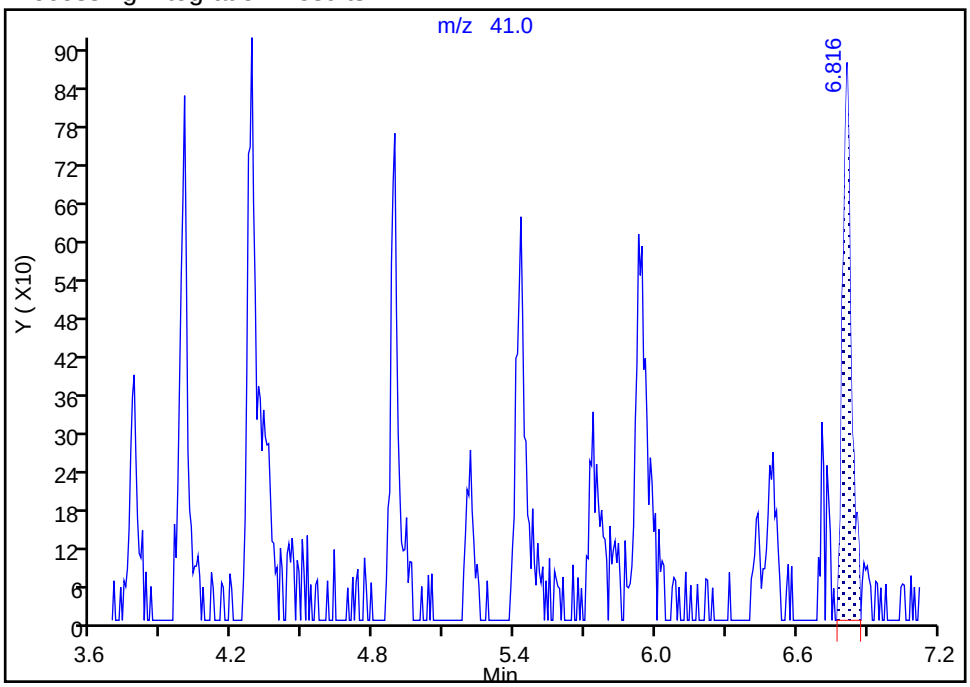
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

72 n-Butanol, CAS: 71-36-3

Signal: 2

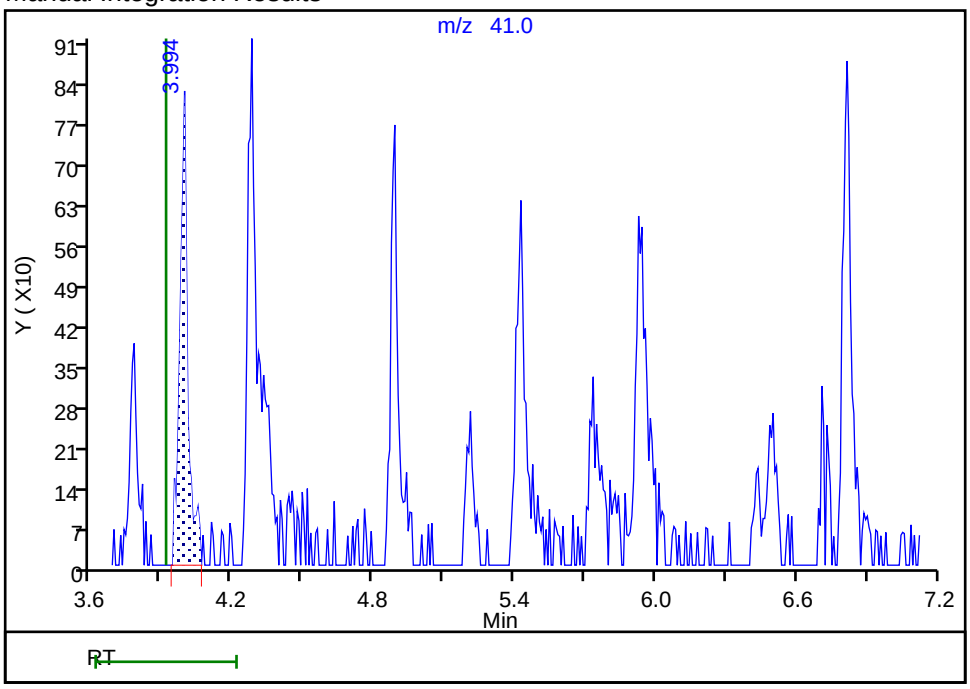
Processing Integration Results

RT: 6.82
Area: 2219
Amount: 46.291533
Amount Units: ug/l



Manual Integration Results

RT: 3.99
Area: 1900
Amount: 8.843967
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:22:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

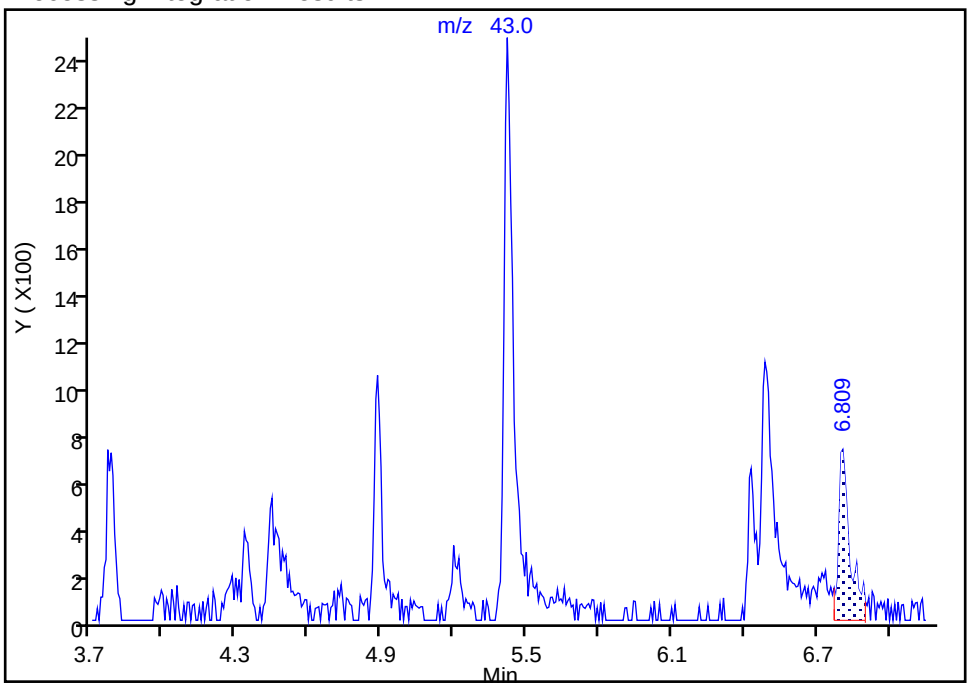
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

72 n-Butanol, CAS: 71-36-3

Signal: 3

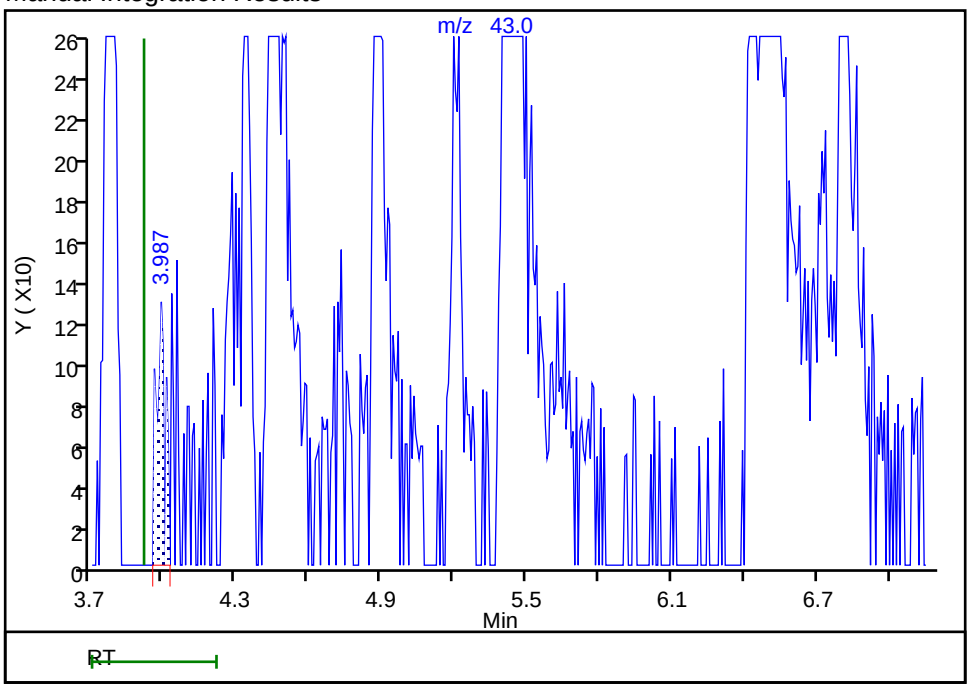
Processing Integration Results

RT: 6.81
Area: 2317
Amount: 46.291533
Amount Units: ug/l



Manual Integration Results

RT: 3.99
Area: 305
Amount: 8.843967
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:22:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

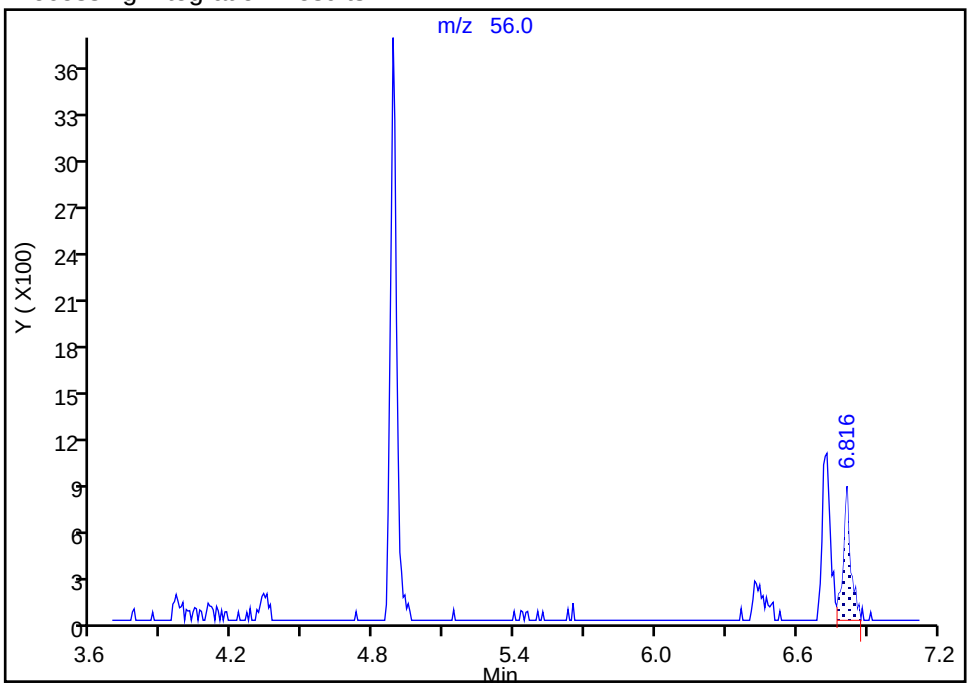
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

72 n-Butanol, CAS: 71-36-3

Signal: 1

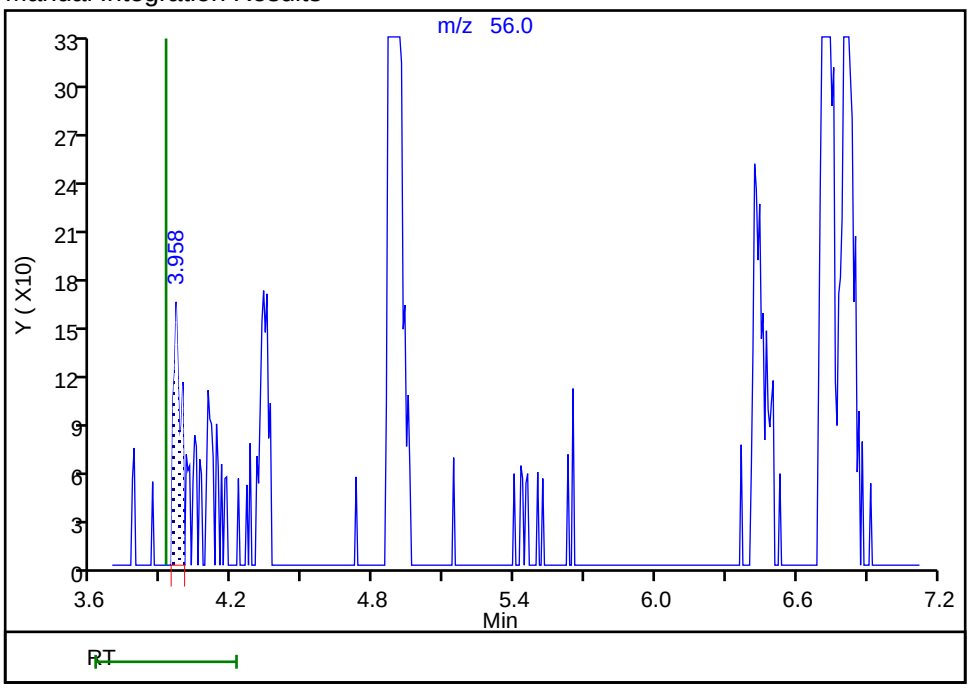
Processing Integration Results

RT: 6.82
Area: 1786
Amount: 46.291533
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 341
Amount: 8.843967
Amount Units: ug/l



Reviewer: baronm, 10-Sep-2020 10:29:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

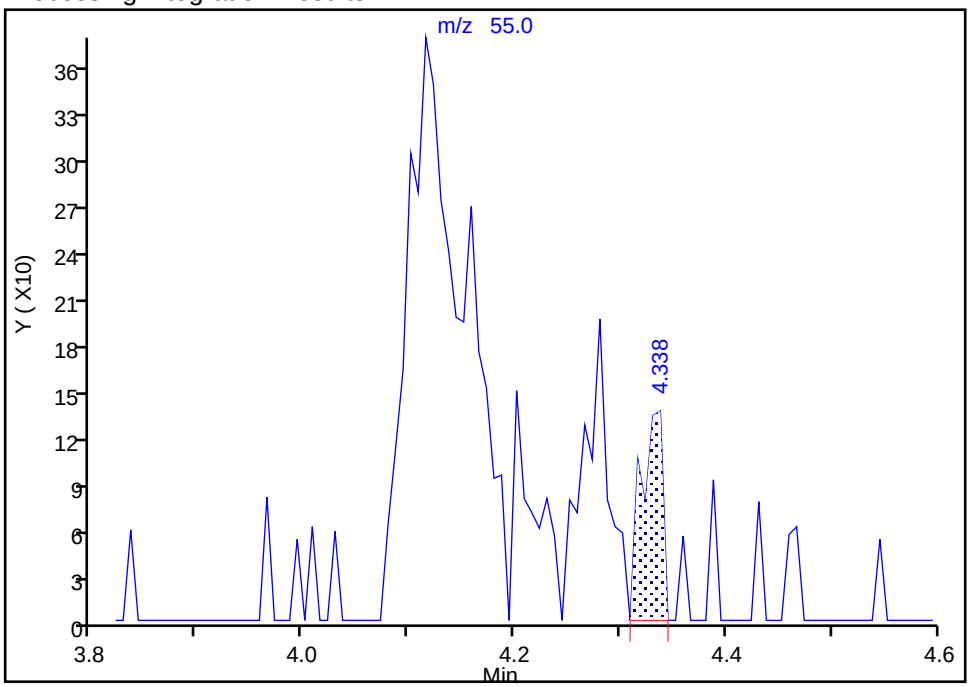
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

74 Ethyl acrylate, CAS: 140-88-5

Signal: 1

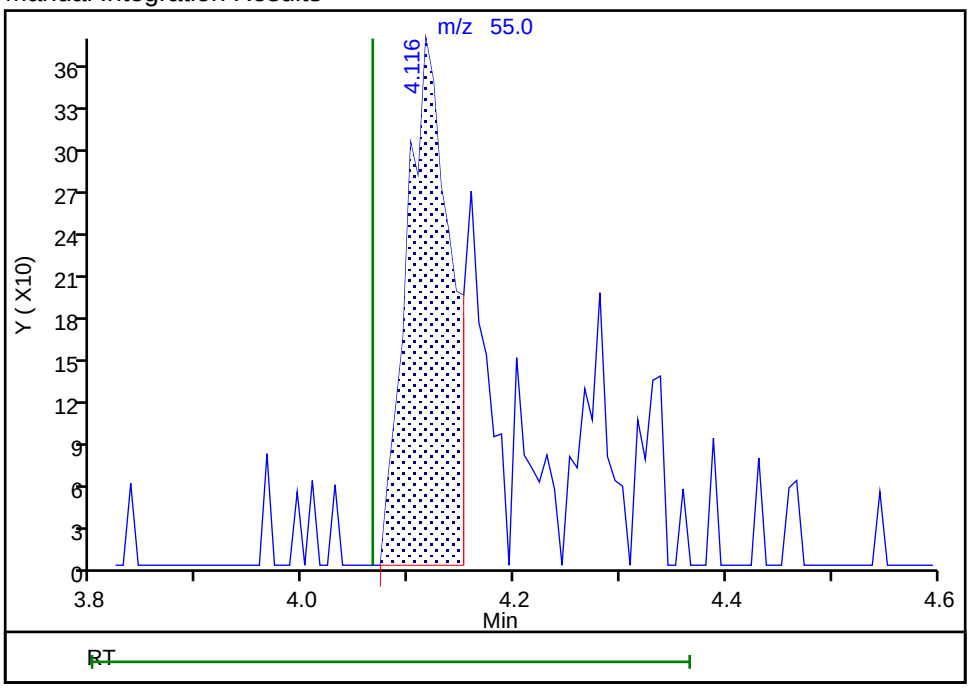
Processing Integration Results

RT: 4.34
Area: 190
Amount: 0.652791
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 1080
Amount: 1.020712
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:07:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

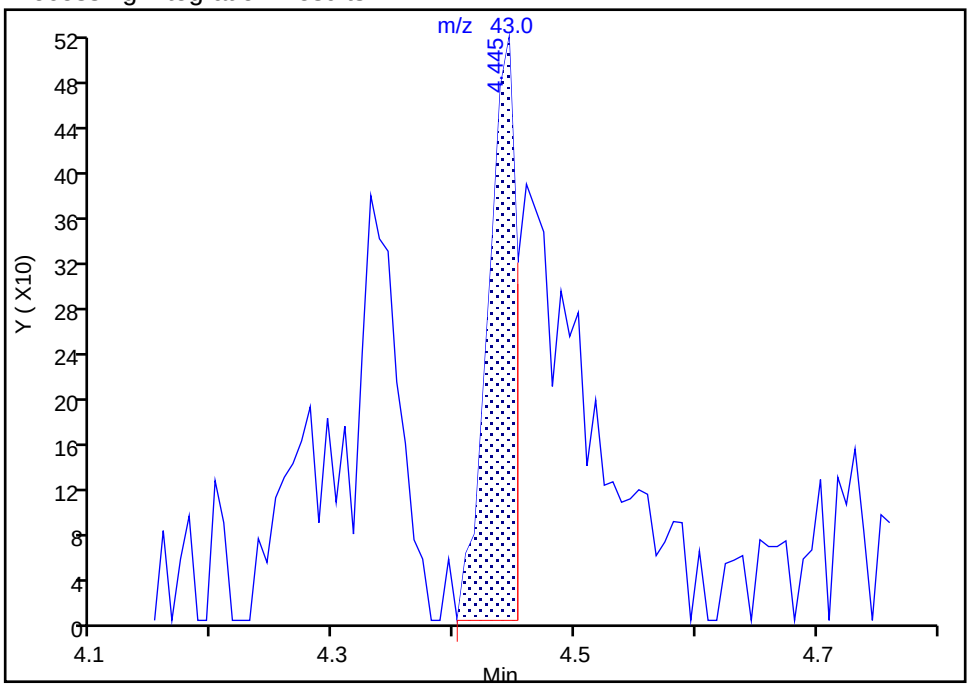
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 n-Propyl acetate, CAS: 109-60-4

Signal: 1

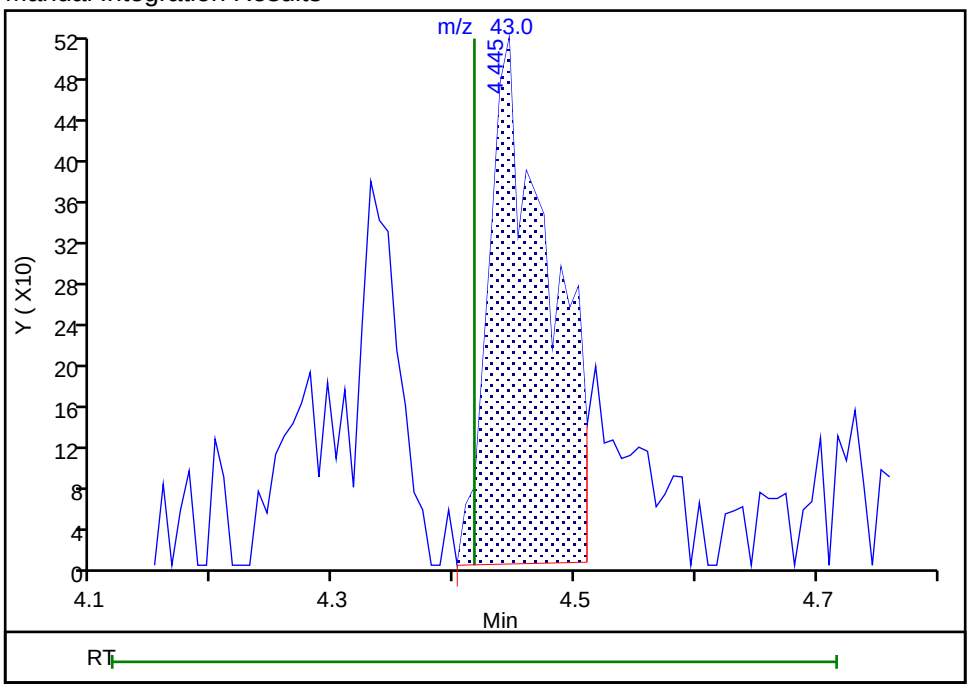
Processing Integration Results

RT: 4.45
Area: 843
Amount: 0.351508
Amount Units: ug/l



Manual Integration Results

RT: 4.45
Area: 1797
Amount: 0.820897
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 11:57:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

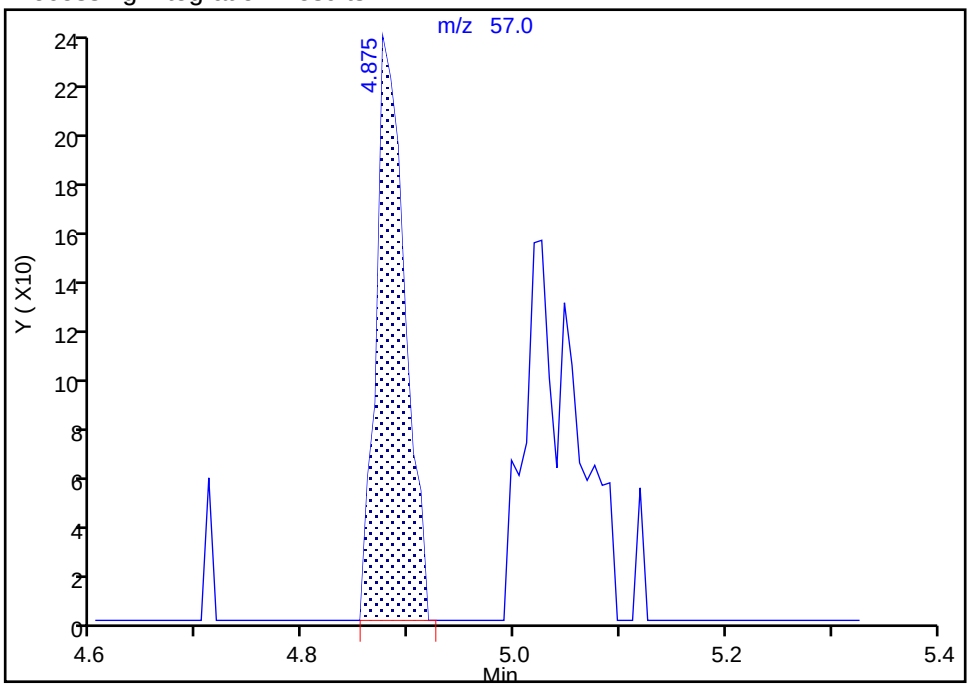
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

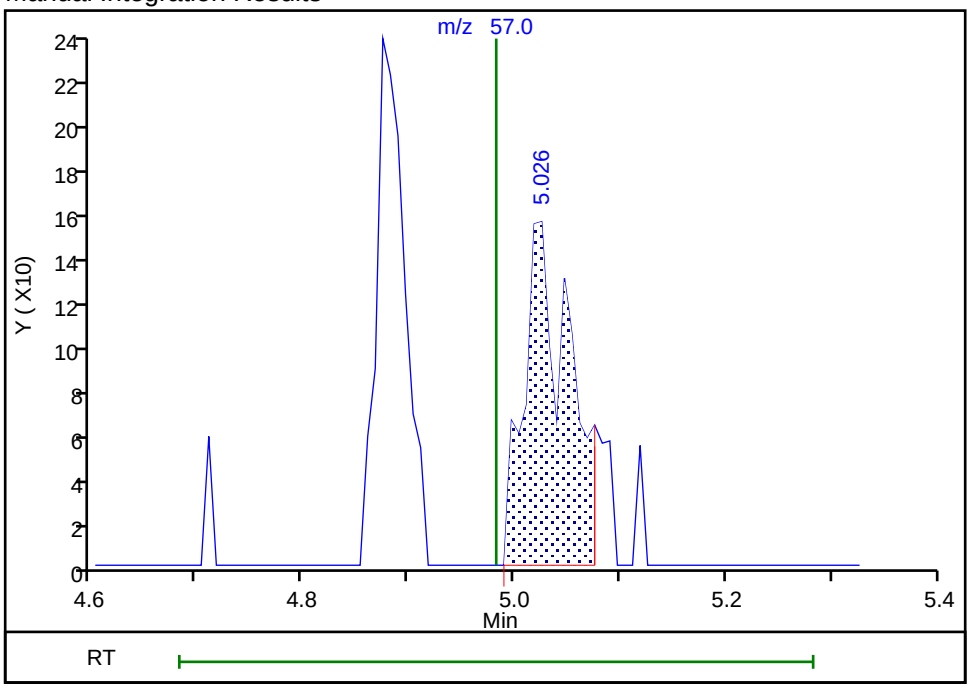
Processing Integration Results

RT: 4.88
Area: 440
Amount: 8.663925
Amount Units: ug/l



Manual Integration Results

RT: 5.03
Area: 457
Amount: 8.998456
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:14:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

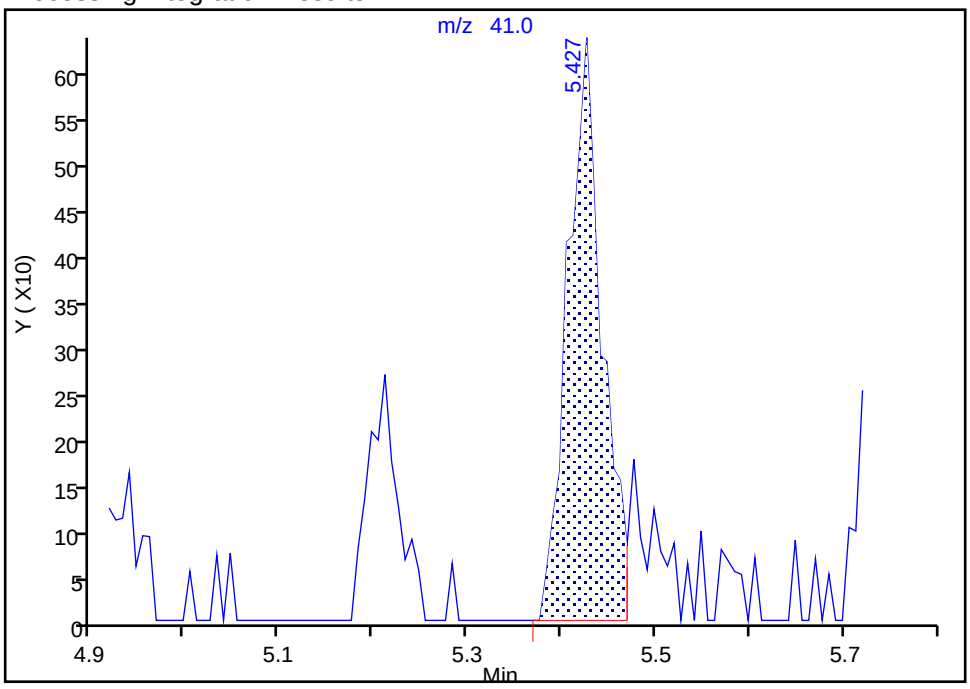
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

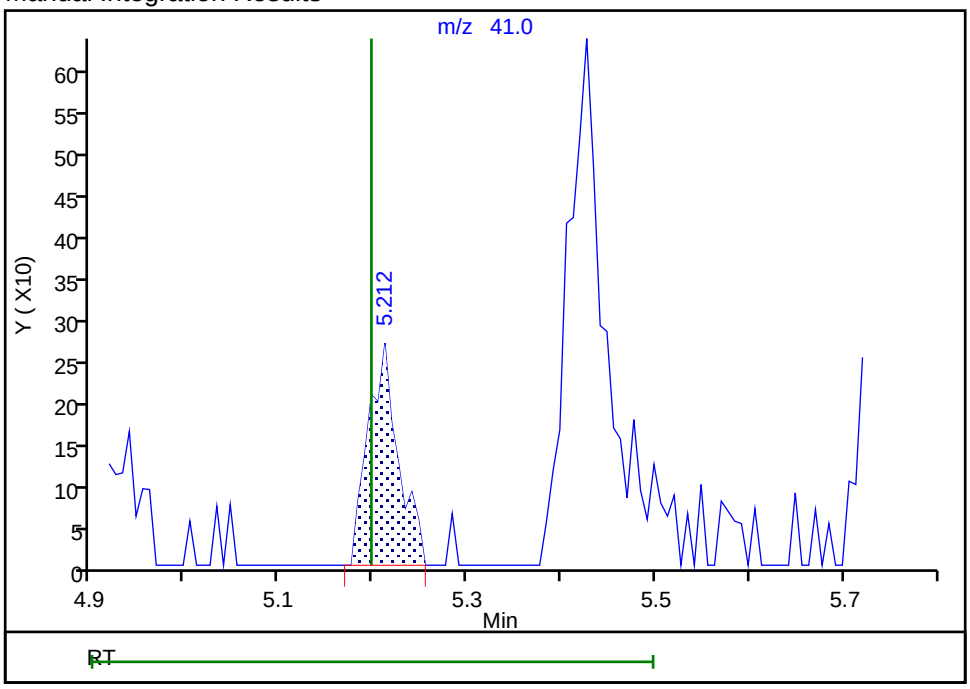
Processing Integration Results

RT: 5.43
Area: 1614
Amount: 5.851678
Amount Units: ug/l



Manual Integration Results

RT: 5.21
Area: 595
Amount: 2.059193
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:14:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

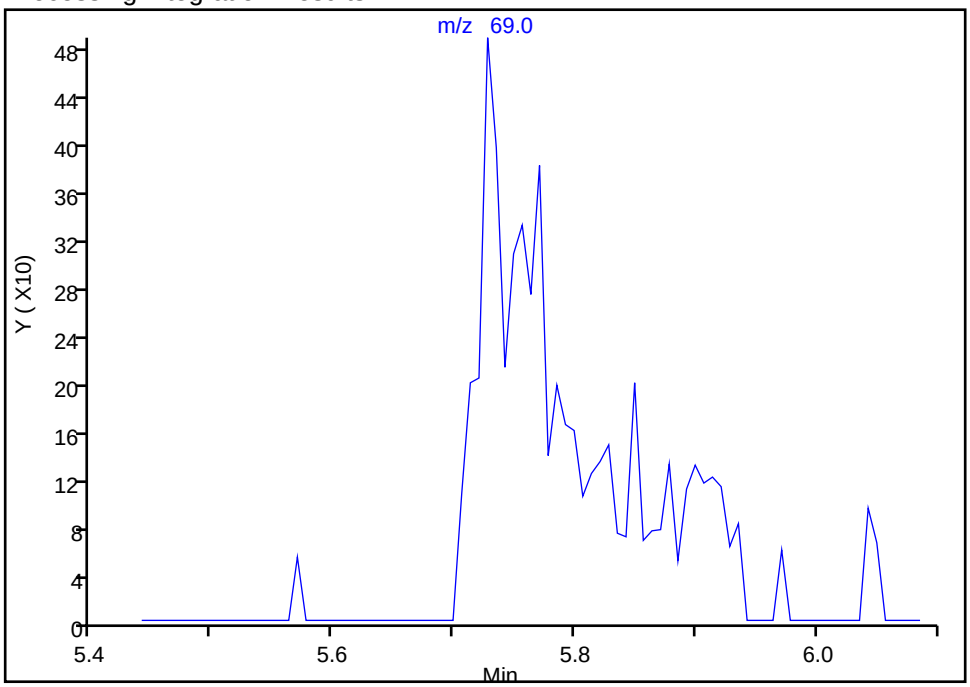
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

90 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

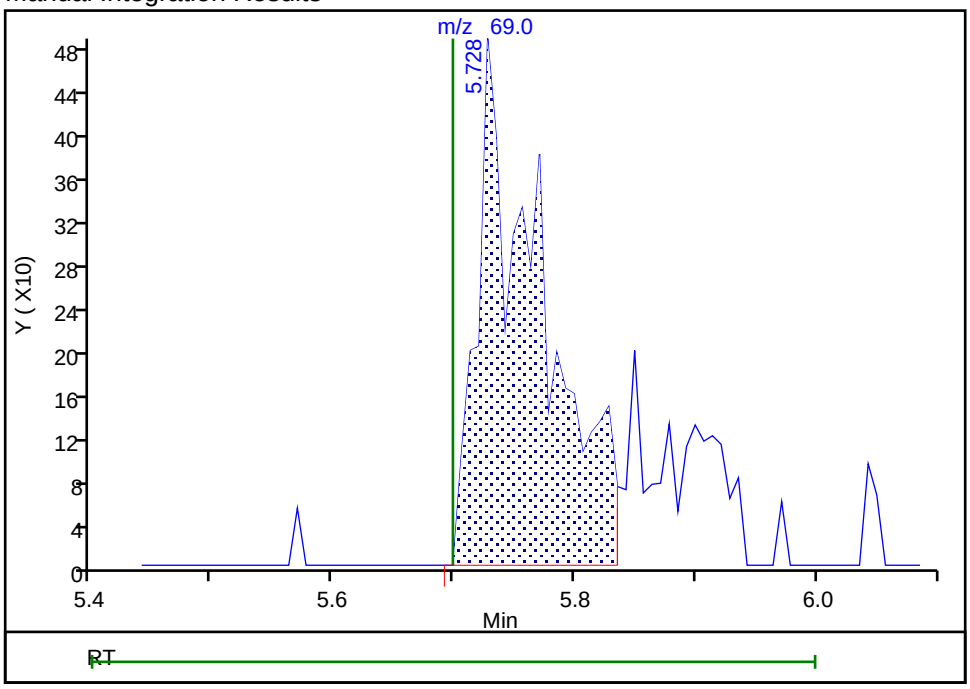
Not Detected
Expected RT: 5.70

Processing Integration Results



Manual Integration Results

RT: 5.73
Area: 1777
Amount: 0.777182
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:48:01
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

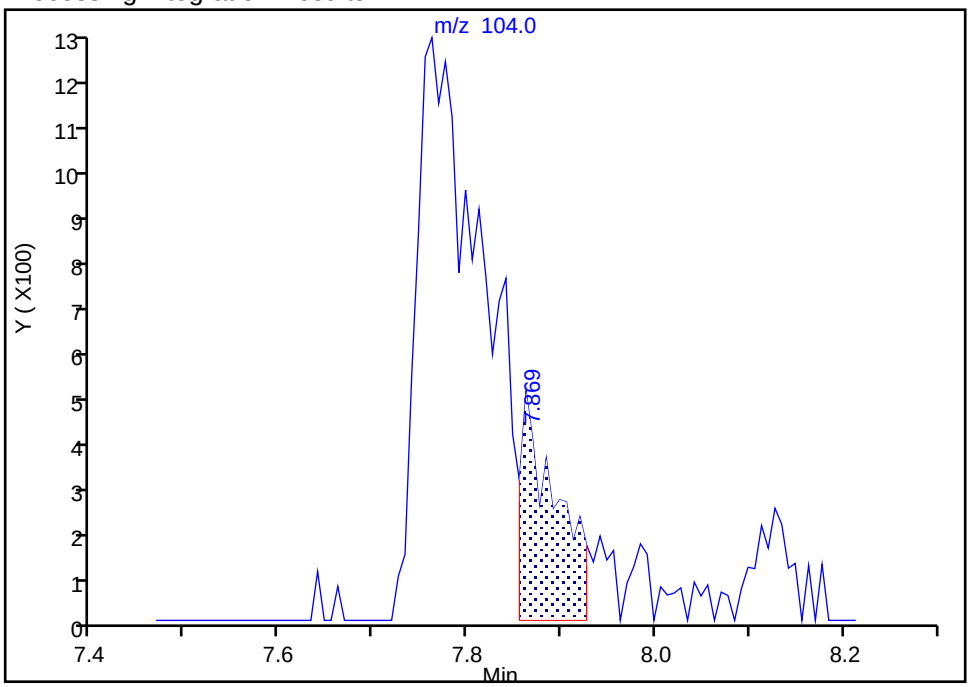
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

103 Styrene, CAS: 100-42-5

Signal: 1

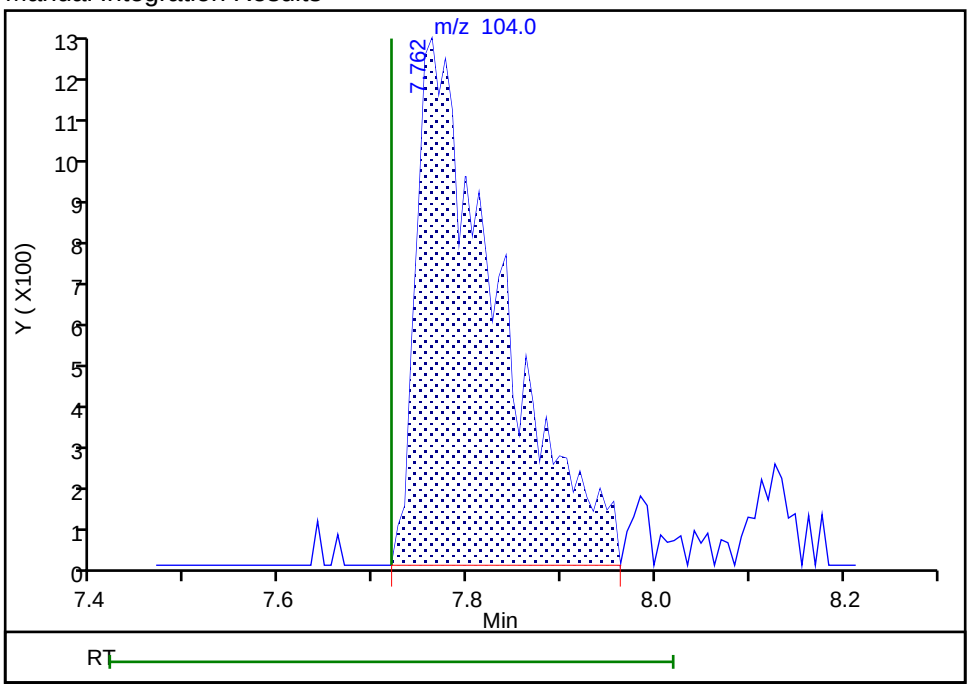
Processing Integration Results

RT: 7.87
Area: 1283
Amount: 0.193461
Amount Units: ug/l



Manual Integration Results

RT: 7.76
Area: 7343
Amount: 0.923415
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:09:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

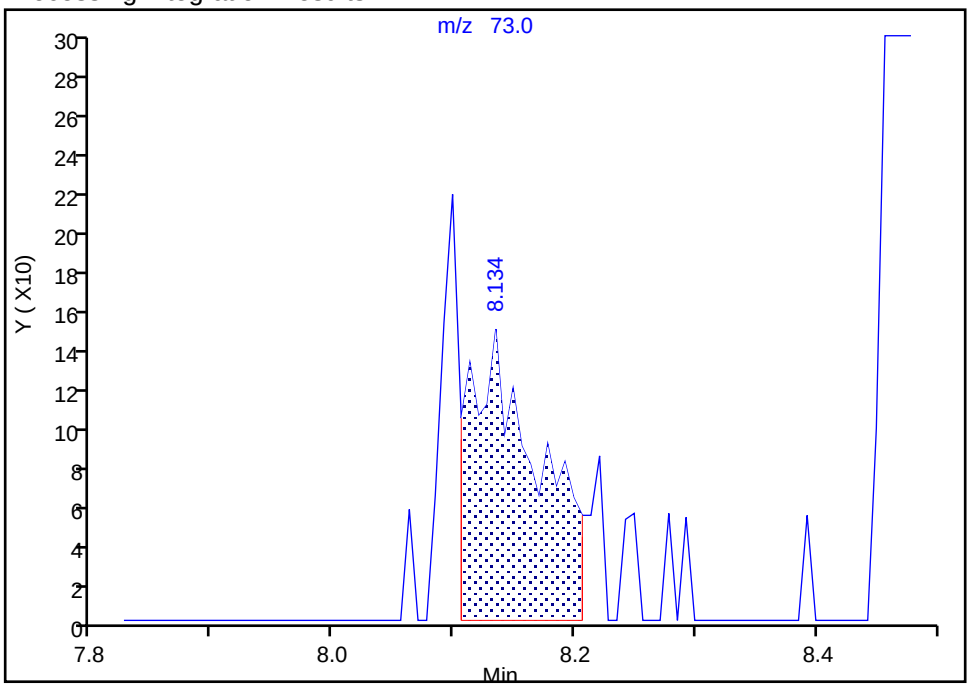
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

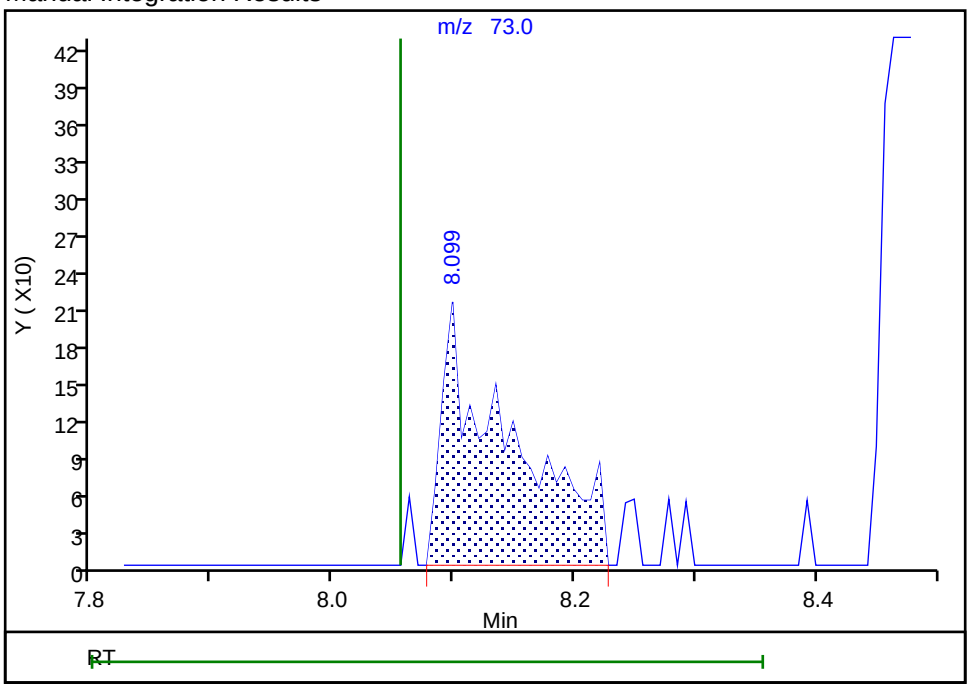
Processing Integration Results

RT: 8.13
Area: 593
Amount: 0.397969
Amount Units: ug/l



Manual Integration Results

RT: 8.10
Area: 835
Amount: 1.013673
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:22:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

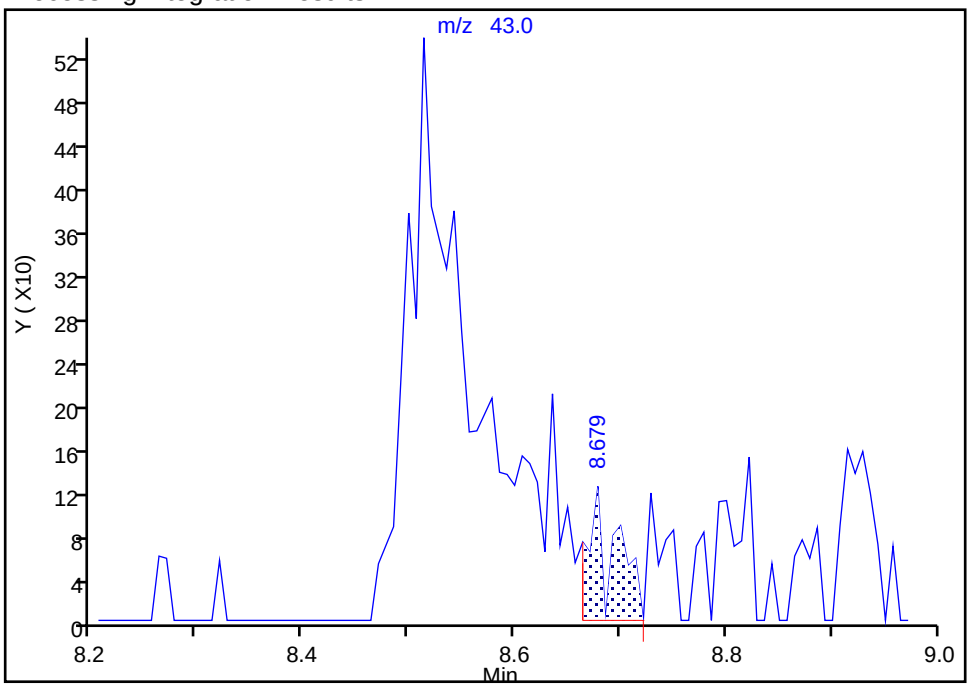
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

106 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

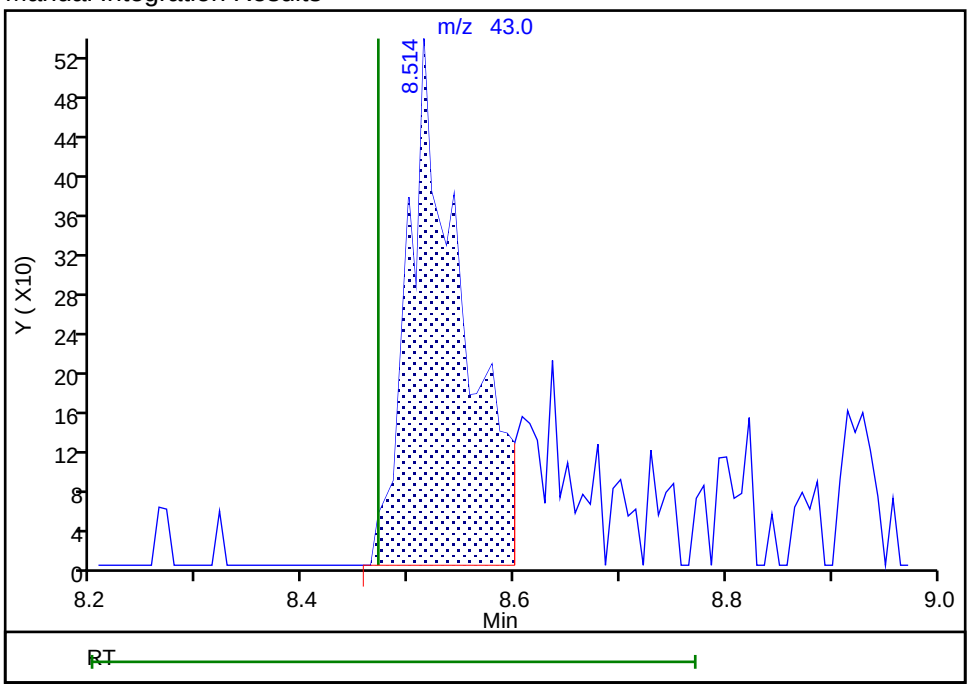
Processing Integration Results

RT: 8.68
Area: 227
Amount: 0.434639
Amount Units: ug/l



Manual Integration Results

RT: 8.51
Area: 1912
Amount: 1.025273
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:09:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

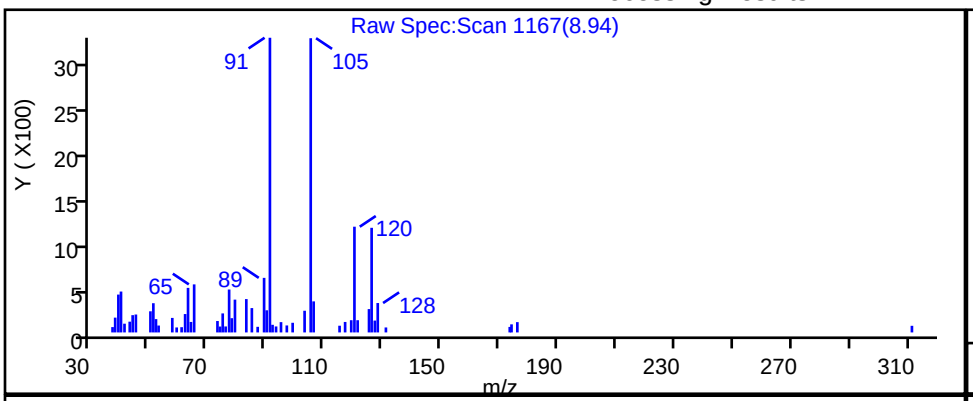
User Disabled Compound Report

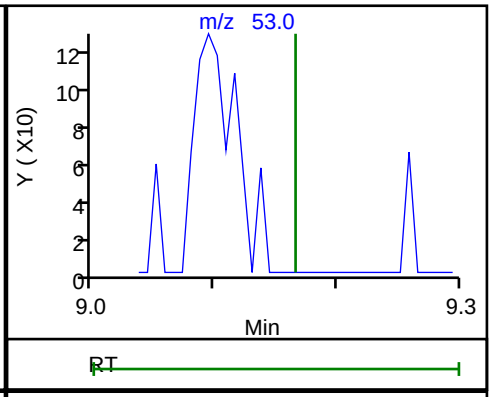
Eurofins TestAmerica, Edison

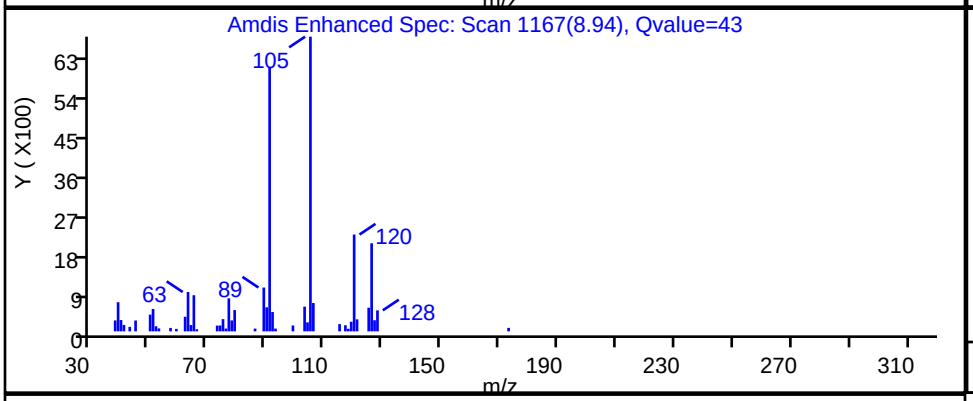
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79354.D
Injection Date: 04-Sep-2020 14:57:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

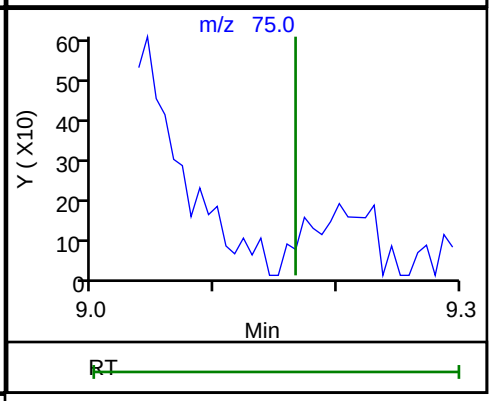
115 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

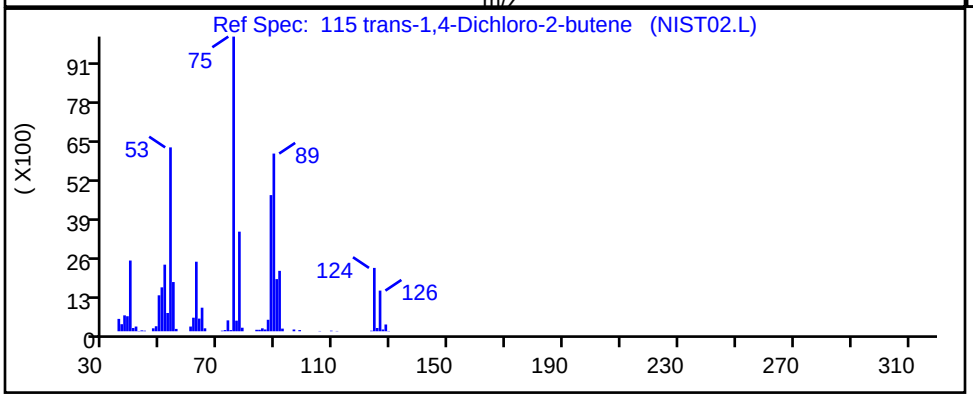
Processing Results











RT	Mass	Response	Amount
8.94	53.00	82	0.244940
8.92	75.00	759	

Reviewer: baronm, 05-Sep-2020 12:07:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Sep-2020 15:21:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0116303-005
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:38:13 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: starzecm Date: 04-Sep-2020 14:46:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.728	0.721	0.007	68	1081	5.00	4.47	
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	85	3587	5.00	4.16	a
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	99	17078	5.00	4.62	
4 1,1-Difluoroethane	65	0.807	0.807	0.000	89	8287	5.00	4.73	
5 Chlorodifluoromethane	67	0.821	0.814	0.007	95	2413	5.00	4.76	a
6 Chloromethane	50	0.893	0.892	0.001	68	25436	5.00	4.92	
8 Butadiene	54	0.893	0.892	0.001	91	15246	5.00	4.43	
7 Vinyl chloride	62	0.893	0.892	0.001	56	17466	5.00	4.62	a
9 Bromomethane	94	1.036	1.036	0.000	99	6734	5.00	4.48	
10 Chloroethane	64	1.093	1.093	0.000	98	11587	5.00	5.76	Ma
11 Pentane	72	1.150	1.150	0.000	97	4966	10.0	10.1	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	56	15241	5.00	4.41	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	98	23079	5.00	4.97	
14 2-Methyl-1,3-butadiene	67	1.294	1.286	0.008	96	18393	5.00	4.63	
15 Ethyl ether	59	1.294	1.294	0.000	98	9337	5.00	5.04	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	93	17228	5.00	4.78	
17 1,1-Dichloroethene	96	1.394	1.387	0.007	98	11646	5.00	4.71	
16 Ethanol	46	1.380	1.408	-0.028	32	1713	200.0	180.4	a
19 Carbon disulfide	76	1.408	1.408	0.000	99	46527	5.00	4.82	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.415	1.408	0.007	89	11574	5.00	4.79	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.415	1.415	0.000	95	17523	5.00	4.68	a
22 Iodomethane	142	1.466	1.466	0.000	97	10285	5.00	2.63	
23 Cyclopentene	67	1.537	1.537	0.000	96	31435	5.00	4.59	
24 Acrolein	56	1.559	1.559	0.000	93	3211	20.0	14.4	
25 3-Chloro-1-propene	76	1.630	1.630	0.000	94	7562	5.00	4.79	
26 Isopropyl alcohol	45	1.659	1.659	0.000	96	4566	50.0	49.4	
27 Methylene Chloride	84	1.695	1.695	0.000	92	15063	5.00	5.06	
28 Acetone	43	1.716	1.716	0.000	88	11181	25.0	23.2	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	13885	5.00	4.91	
30 Methyl acetate	43	1.788	1.781	0.007	98	11836	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	0.000	91	2899	5.00	4.25	
32 Methyl tert-butyl ether	73	1.838	1.838	0.000	84	28926	5.00	5.01	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	100	114474	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.903	1.902	0.001	100	7009	50.0	56.0	
35 Acetonitrile	41	1.981	1.981	0.000	99	12143	50.0	53.1	a
36 Isopropyl ether	45	2.053	2.053	0.000	97	44353	5.00	4.90	
37 2-Chloro-1,3-butadiene	88	2.110	2.110	0.000	88	12452	5.00	4.81	
38 1,1-Dichloroethane	63	2.117	2.117	0.000	100	26065	5.00	4.97	
39 Acrylonitrile	53	2.153	2.153	0.000	94	34857	50.0	51.3	
40 Tert-butyl ethyl ether	59	2.275	2.275	0.000	89	35847	5.00	4.81	
41 Vinyl acetate	43	2.289	2.282	0.007	100	41944	10.0	10.4	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	96	15638	5.00	5.00	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	97	17330	5.00	4.88	
44 Cyclohexane	56	2.590	2.583	0.007	91	24852	5.00	4.73	
45 Chlorobromomethane	128	2.590	2.590	0.000	90	6839	5.00	5.01	
46 Chloroform	83	2.648	2.647	0.001	98	22972	5.00	4.89	
47 Carbon tetrachloride	117	2.733	2.733	0.000	97	12442	5.00	4.49	
48 Ethyl acetate	70	2.748	2.748	0.000	99	1821	10.0	9.57	
49 Methyl acrylate	55	2.755	2.748	0.007	76	6855	5.00	4.63	
50 Tetrahydrofuran	42	2.762	2.755	0.007	95	6772	10.0	10.2	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	98	119812	50.0	50.7	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	98	17778	5.00	4.71	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	100	146821	250.0	250.0	
55 1,1-Dichloropropene	75	2.870	2.869	0.001	96	21330	5.00	5.21	a
54 2-Butanone (MEK)	72	2.870	2.869	0.001	90	5452	25.0	25.4	
56 Isooctane	57	2.956	2.955	0.001	99	39210	5.00	4.73	
57 n-Heptane	57	3.049	3.049	0.000	94	9455	5.00	4.65	
58 Benzene	78	3.056	3.056	0.000	96	58103	5.00	4.84	
59 Propionitrile	54	3.077	3.077	0.000	93	11490	50.0	47.3	
60 Methacrylonitrile	67	3.099	3.092	0.007	92	38315	50.0	50.8	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	119732	50.0	50.5	
62 Tert-amyl methyl ether	73	3.170	3.163	0.007	98	30230	5.00	4.87	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	15916	5.00	5.19	
64 Isobutyl alcohol	43	3.292	3.292	0.000	94	7071	125.0	115.5	
65 t-Amyl alcohol	59	3.357	3.357	0.000	87	4530	50.0	45.6	a
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	548804	50.0	50.0	
67 Isopropyl acetate	43	3.464	3.457	0.007	98	17689	5.00	5.08	
68 Methylcyclohexane	83	3.507	3.507	0.000	96	21835	5.00	4.51	
69 Trichloroethene	130	3.536	3.536	0.000	98	13926	5.00	4.70	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	93	28737	5.00	4.70	
71 Dibromomethane	93	3.901	3.894	0.007	96	6905	5.00	5.23	
72 n-Butanol	56	3.930	3.915	0.015	69	3568	125.0	94.9	a
73 1,2-Dichloropropane	63	3.987	3.980	0.007	92	14565	5.00	4.91	
75 Dichlorobromomethane	83	4.066	4.066	0.000	98	15658	5.00	4.81	
74 Ethyl acrylate	55	4.080	4.066	0.014	98	8046	5.00	4.45	M
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	66	15504	1000.0	1000.0	
77 Methyl methacrylate	100	4.274	4.259	0.015	92	3972	10.0	8.99	
78 1,4-Dioxane	88	4.274	4.273	0.001	35	1785	100.0	99.8	
79 n-Propyl acetate	43	4.424	4.417	0.007	98	9882	5.00	4.43	
80 2-Chloroethyl vinyl ether	63	4.696	4.675	0.021	33	1592	5.01	2.84	
81 cis-1,3-Dichloropropene	75	4.703	4.696	0.007	93	17150	5.00	4.36	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	499494	50.0	50.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	4.940	4.940	0.000	93	59660	5.00	4.89	
84 Epichlorohydrin	57	4.997	4.983	0.014	91	2440	100.0	48.5	
85 2-Nitropropane	41	5.190	5.197	-0.007	97	2558	10.0	8.69	a
86 Tetrachloroethene	166	5.362	5.362	0.000	97	13625	5.00	4.74	
87 4-Methyl-2-pentanone (MIBK)	43	5.412	5.405	0.007	97	37833	25.0	24.9	
88 trans-1,3-Dichloropropene	75	5.448	5.441	0.007	93	13917	5.00	4.45	
89 1,1,2-Trichloroethane	83	5.613	5.606	0.007	95	7946	5.00	4.77	
90 Ethyl methacrylate	69	5.713	5.699	0.014	90	10862	5.00	4.66	
91 Chlorodibromomethane	129	5.806	5.799	0.007	98	9794	5.00	4.56	
92 1,3-Dichloropropane	76	5.928	5.914	0.014	93	17208	5.00	4.97	
93 Ethylene Dibromide	107	6.057	6.050	0.007	99	7636	5.00	4.27	
94 n-Butyl acetate	43	6.408	6.401	0.007	98	9910	5.00	4.61	
95 2-Hexanone	43	6.465	6.458	0.007	94	23919	25.0	23.5	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	384707	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	94	38391	5.00	5.02	
98 Ethylbenzene	106	6.838	6.831	0.007	98	21119	5.00	4.93	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	94	11192	5.00	4.73	
100 m-Xylene & p-Xylene	106	7.053	7.046	0.007	0	25007	5.00	4.98	
101 o-Xylene	106	7.633	7.626	0.007	94	24870	5.00	4.89	
102 Bromoform	173	7.705	7.690	0.015	95	5800	5.00	4.78	
103 Styrene	104	7.726	7.719	0.007	95	37835	5.00	4.65	
104 n-Butyl acrylate	73	8.070	8.056	0.014	98	5873	5.00	4.64	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	64696	5.00	4.91	
106 Amyl acetate (mixed isomers)	43	8.478	8.471	0.007	39	12401	5.00	4.31	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	92	159019	50.0	51.1	
108 Bromobenzene	156	8.593	8.586	0.007	99	16184	5.00	5.05	
109 N-Propylbenzene	91	8.743	8.743	0.000	99	76993	5.00	4.80	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	97	10928	5.00	4.91	
111 2-Chlorotoluene	91	8.915	8.908	0.007	97	51336	5.00	4.64	
112 4-Ethyltoluene	105	8.937	8.929	0.008	98	62764	5.00	4.71	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	97	3042	5.00	5.17	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	54335	5.00	4.89	
115 trans-1,4-Dichloro-2-butene	53	9.209	9.166	0.043	39	1211	5.00	2.85	a
116 4-Chlorotoluene	91	9.187	9.173	0.014	97	48163	5.00	4.96	
117 tert-Butylbenzene	119	9.553	9.545	0.008	95	45475	5.00	4.73	
118 1,2,4-Trimethylbenzene	105	9.689	9.682	0.007	98	54807	5.00	4.78	
119 Butyl Methacrylate	87	9.703	9.696	0.007	94	13195	5.00	4.58	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	70498	5.00	4.83	
121 1,3-Dichlorobenzene	146	10.104	10.097	0.007	97	30024	5.00	4.74	
122 4-Isopropyltoluene	119	10.119	10.118	0.001	98	56813	5.00	4.61	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	95	216898	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.255	10.247	0.008	96	33274	5.00	4.99	
125 1,2,3-Trimethylbenzene	105	10.362	10.355	0.007	98	56856	5.00	4.89	
126 2,3-Dihydroindene	117	10.534	10.527	0.007	93	54276	5.00	4.81	
127 Benzyl chloride	126	10.735	10.713	0.022	76	2533	5.00	4.22	
128 p-Diethylbenzene	119	10.735	10.727	0.008	90	28516	5.00	4.59	
129 n-Butylbenzene	91	10.821	10.813	0.008	99	53640	5.00	4.78	
130 1,2-Dichlorobenzene	146	10.928	10.921	0.007	96	27923	5.00	4.82	
131 1,2,4,5-Tetramethylbenzene	119	11.931	11.924	0.007	97	50087	5.00	4.63	
132 1,2-Dibromo-3-Chloropropane	157	12.081	12.074	0.007	92	1659	5.00	4.48	
133 1,3,5-Trichlorobenzene	180	12.131	12.124	0.007	97	22827	5.00	4.97	
134 1,2,4-Trichlorobenzene	180	12.826	12.819	0.007	94	18563	5.00	4.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.841	12.840	0.000	97	8036	5.00	4.72	a
136 Naphthalene	128	13.134	13.127	0.007	99	32667	5.00	4.59	
137 1,2,3-Trichlorobenzene	180	13.306	13.299	0.007	94	15014	5.00	4.75	
S 138 1,2-Dichloroethene, Total	100				0		10.0	9.92	
S 139 1,3-Dichloropropene, Total	100				0		10.0	8.81	
S 140 Xylenes, Total	100				0		10.0	9.87	
S 142 Total BTEX	1				0		25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added: 10.00	Units: uL		
ACROLEIN W_00112	Amount Added: 4.00	Units: uL		
GASES Li_00384	Amount Added: 10.00	Units: uL		
524freon_00027	Amount Added: 10.00	Units: uL		
8260ISNEW_00129	Amount Added: 1.00	Units: uL	Run Reagent	
8260SURR250_00212	Amount Added: 1.00	Units: uL	Run Reagent	

Report Date: 10-Sep-2020 10:38:16 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D

Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13 Operator ID:

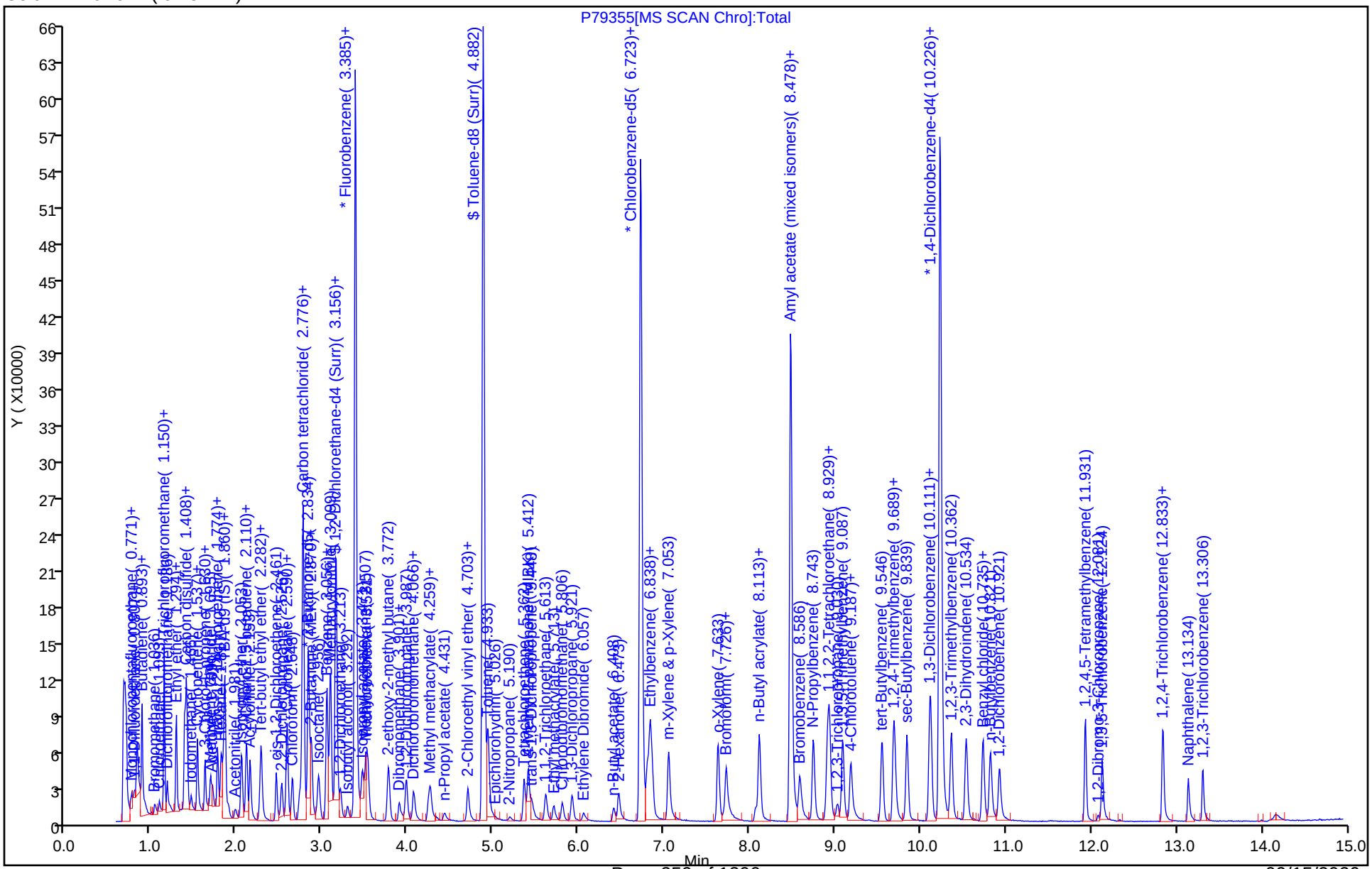
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

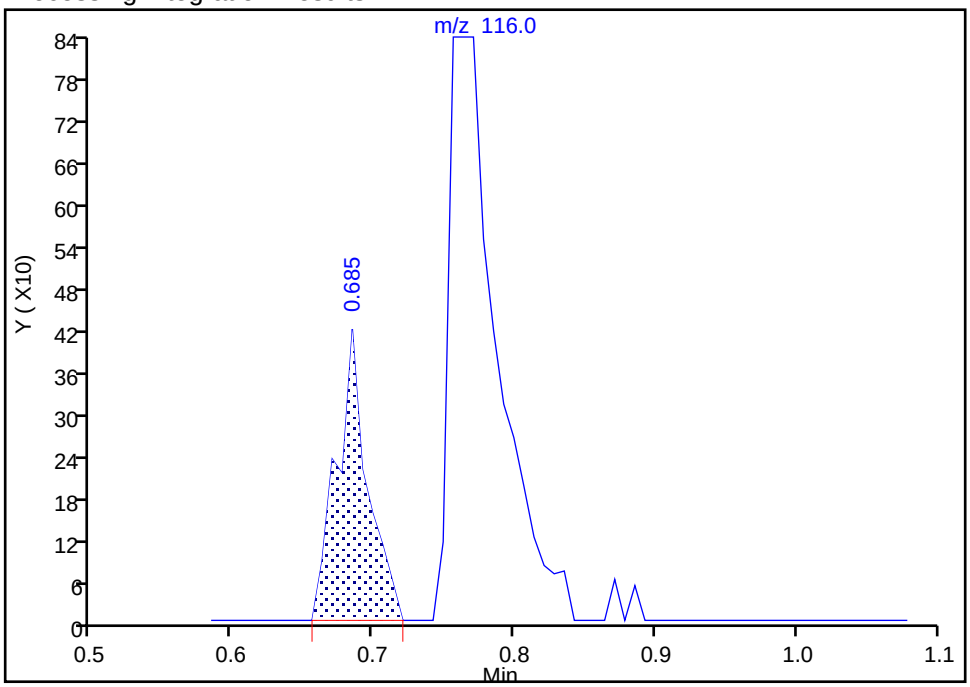
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

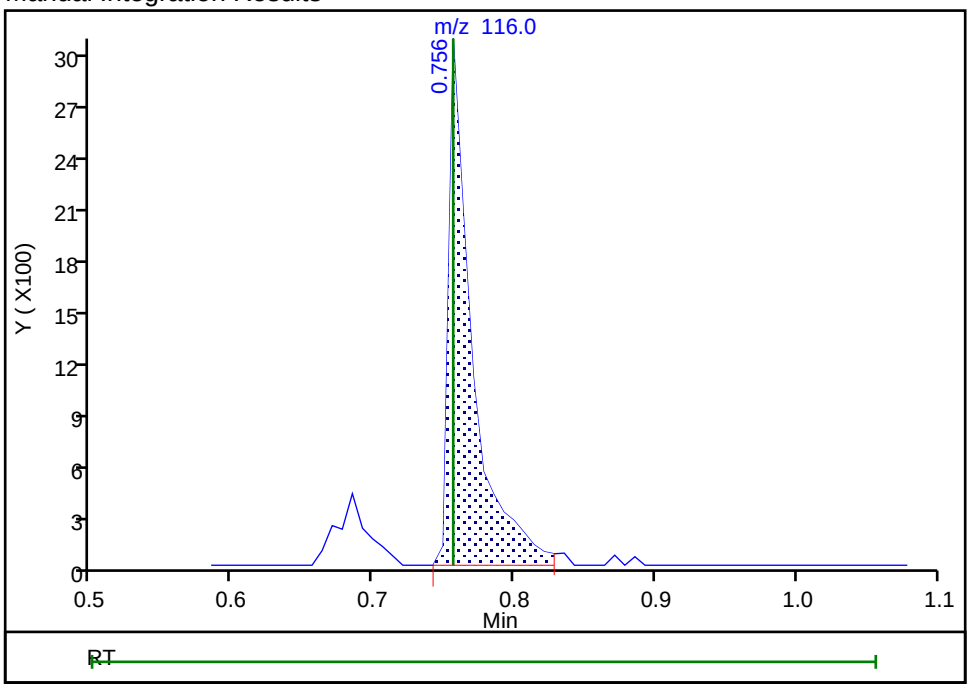
Processing Integration Results

RT: 0.68
Area: 638
Amount: 5.024448
Amount Units: ug/l



Manual Integration Results

RT: 0.76
Area: 3587
Amount: 4.163868
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:40:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

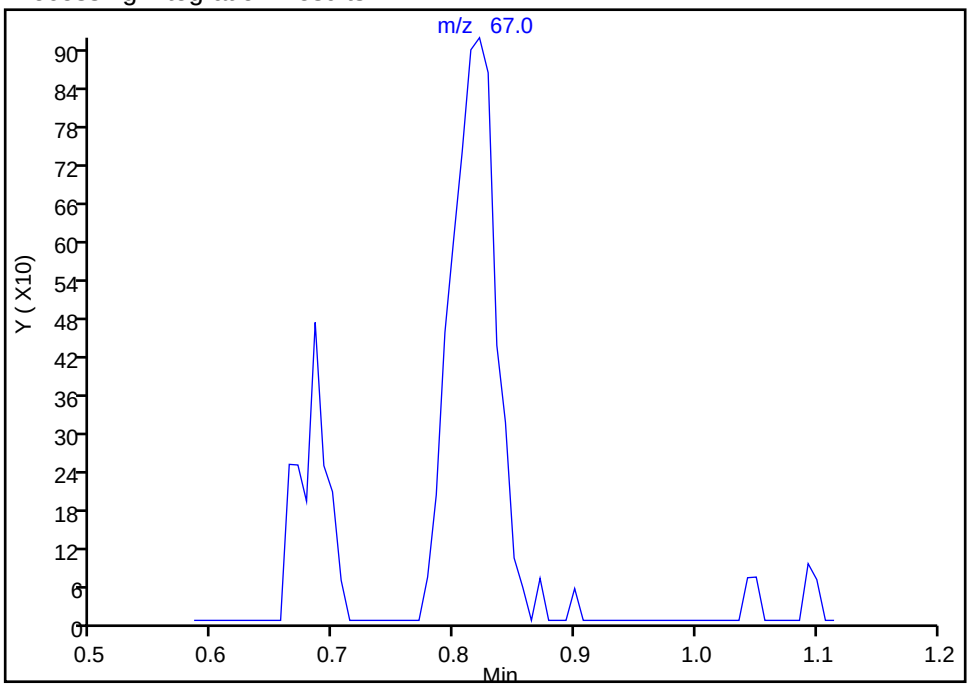
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

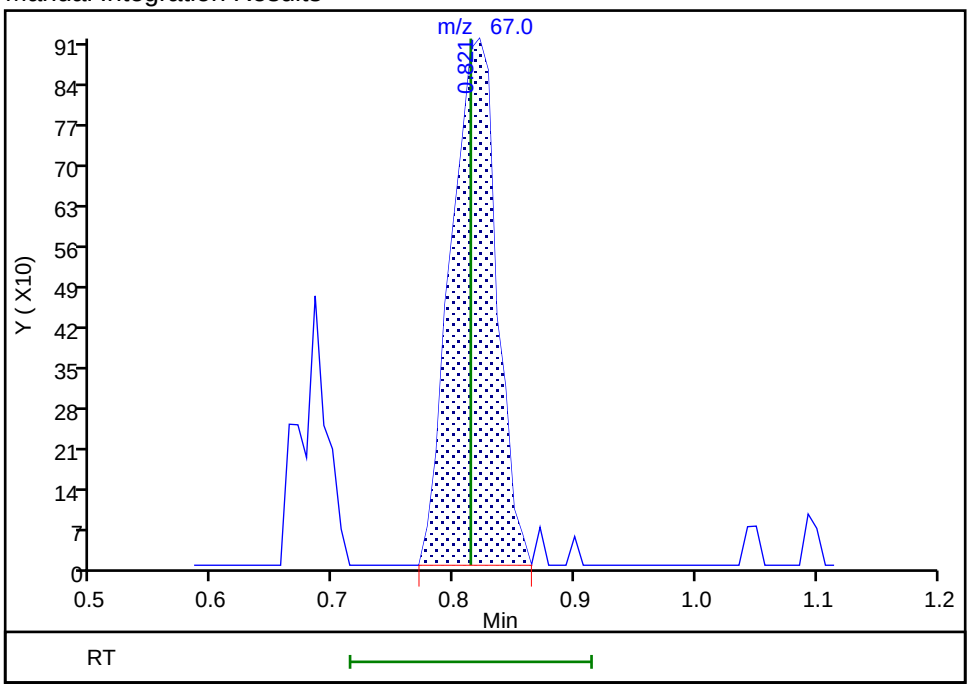
Not Detected
Expected RT: 0.81

Processing Integration Results



Manual Integration Results

RT: 0.82
Area: 2413
Amount: 4.761146
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:40:51
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

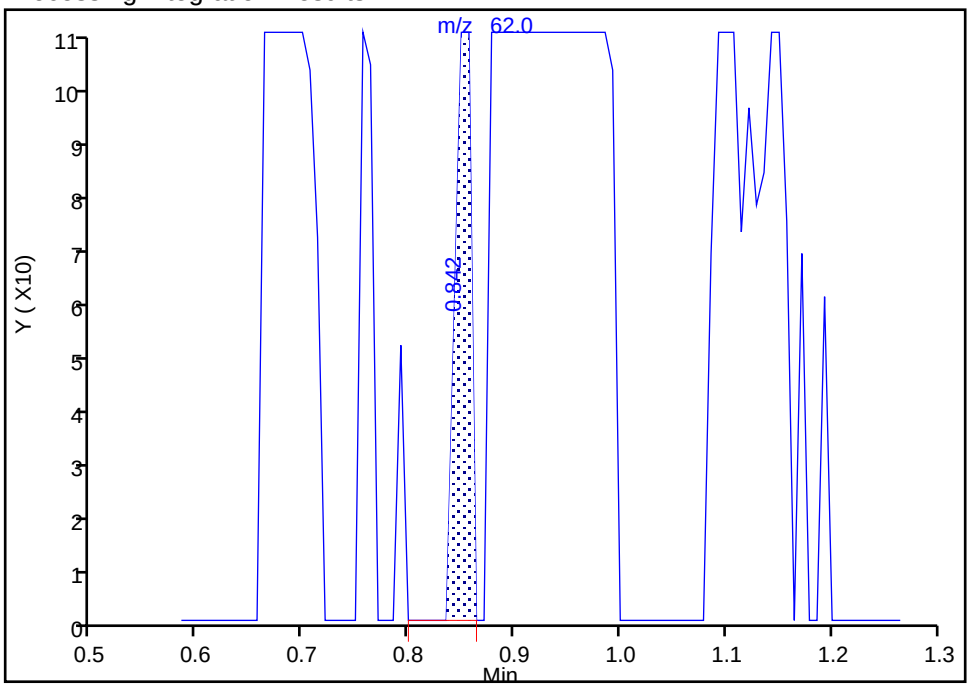
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

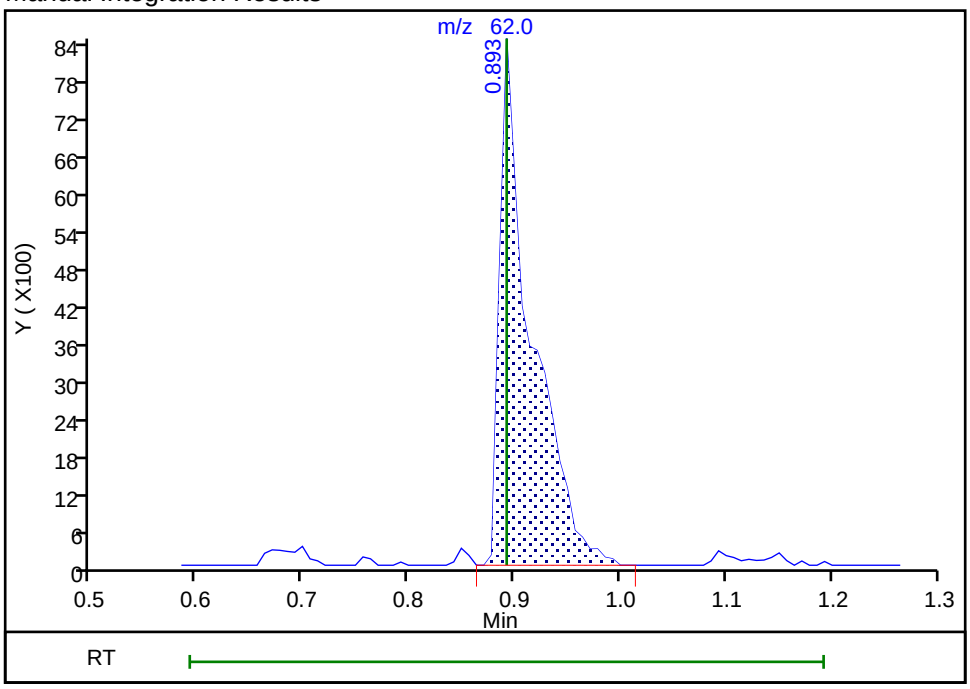
Processing Integration Results

RT: 0.84
Area: 208
Amount: 0.071241
Amount Units: ug/l



Manual Integration Results

RT: 0.89
Area: 17466
Amount: 4.615518
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:40:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

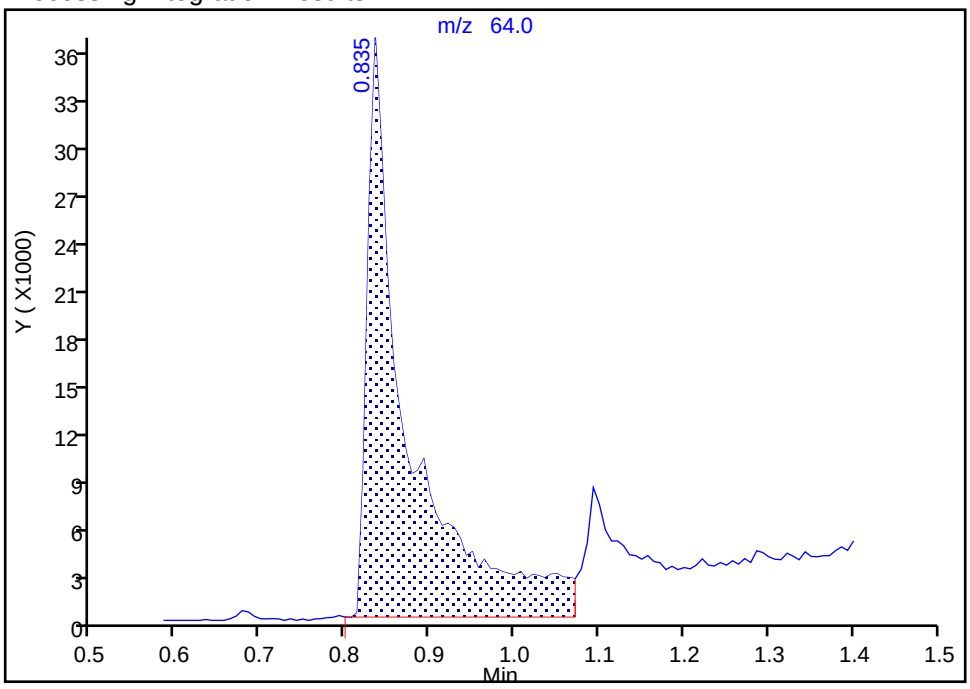
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Chloroethane, CAS: 75-00-3

Signal: 1

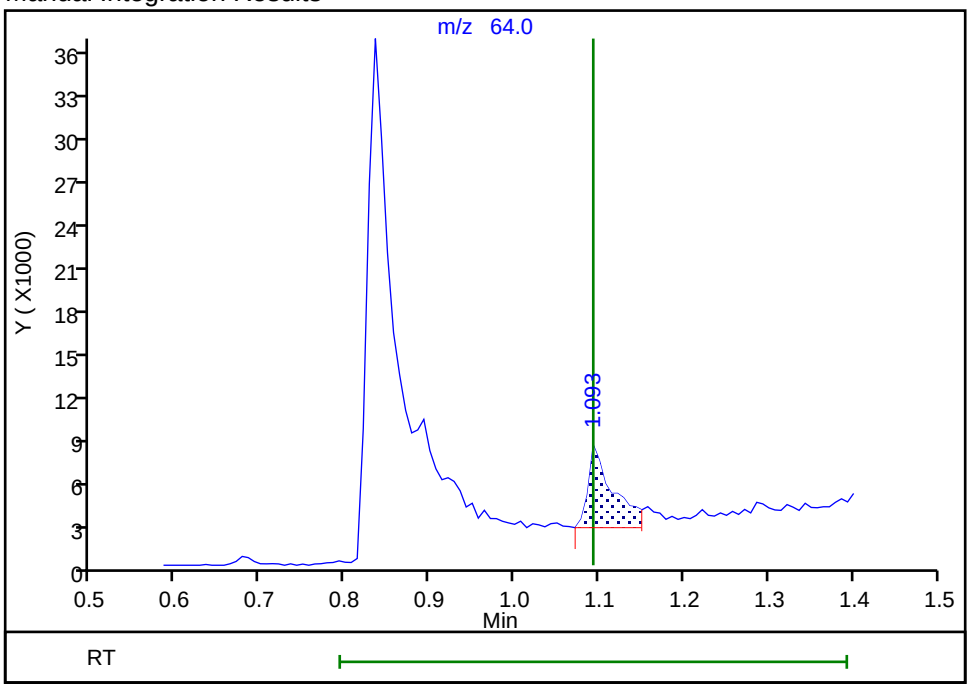
Processing Integration Results

RT: 0.84
Area: 119362
Amount: 0.228626
Amount Units: ug/l



Manual Integration Results

RT: 1.09
Area: 11587
Amount: 5.763158
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:41:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

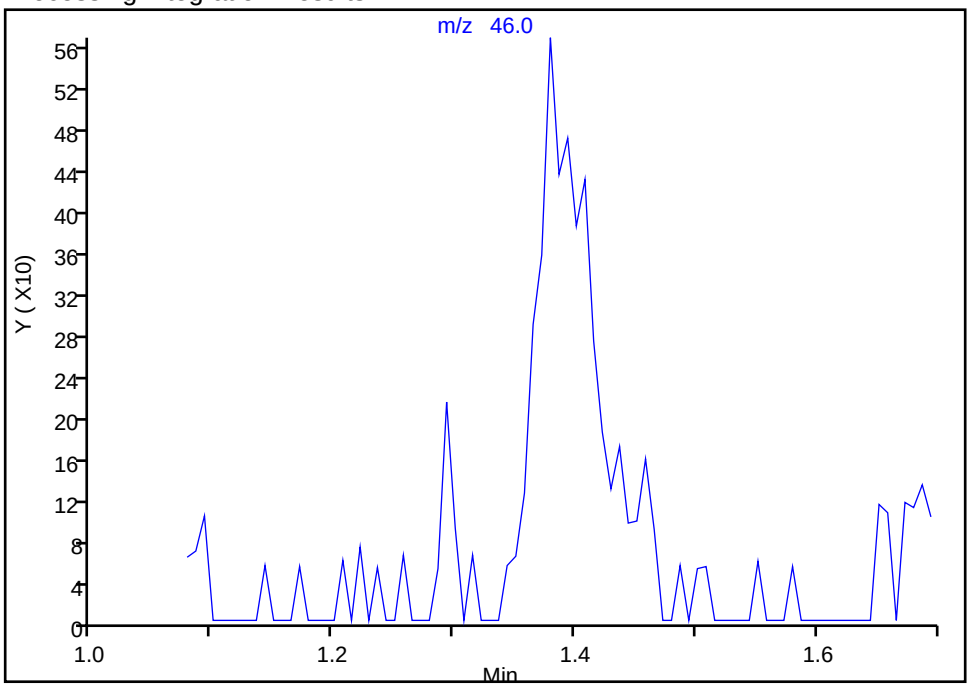
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

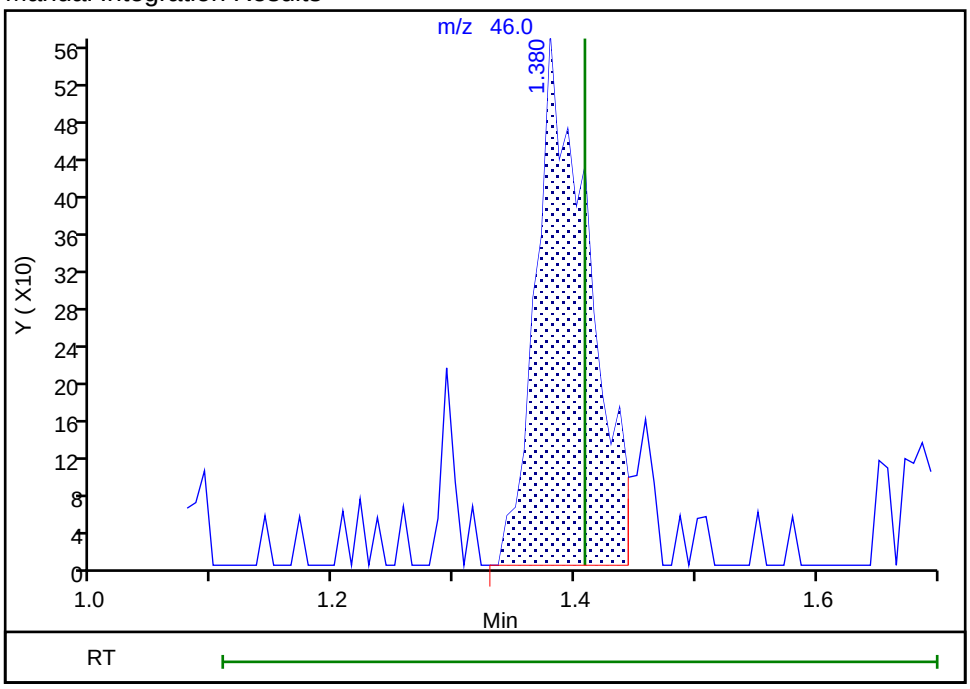
Not Detected
Expected RT: 1.41

Processing Integration Results



Manual Integration Results

RT: 1.38
Area: 1713
Amount: 180.3585
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:42:48
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

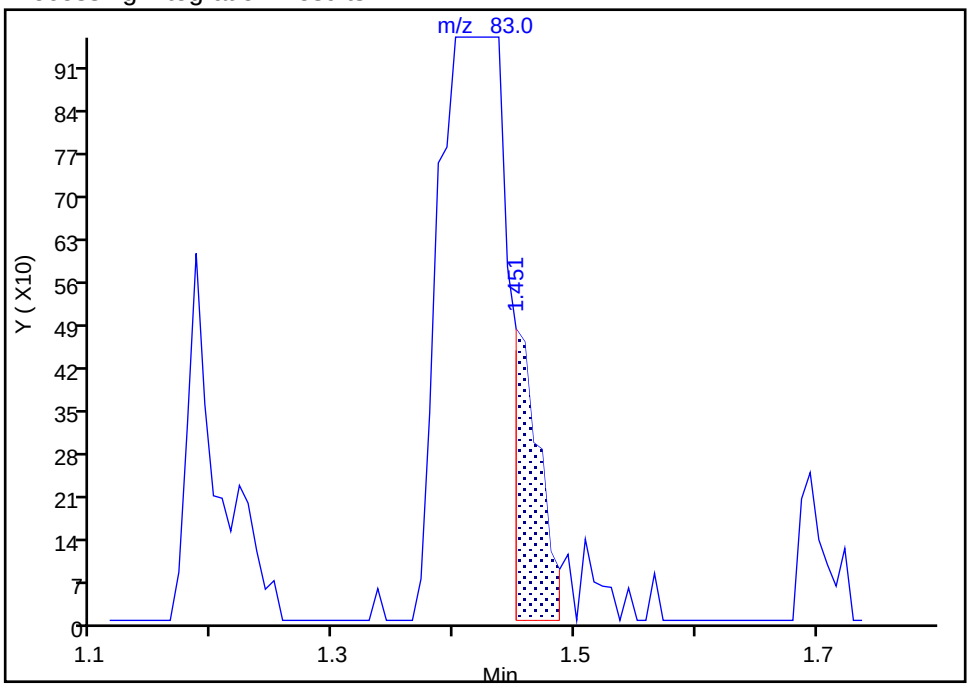
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 1,1,1-Trifluoro-2,2-dichloroetha, CAS: 306-83-2

Signal: 1

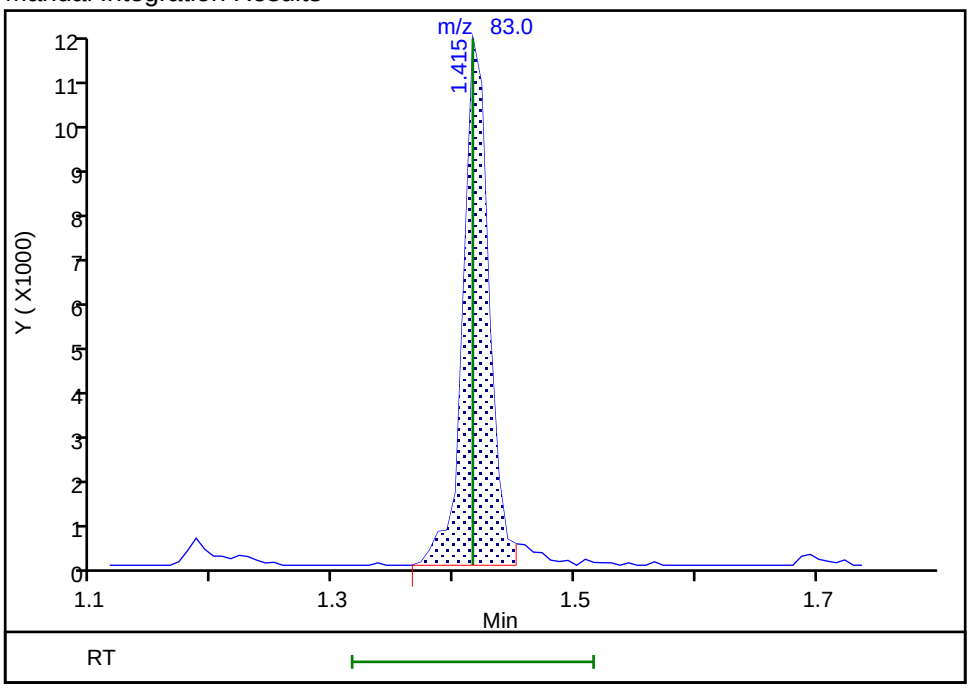
Processing Integration Results

RT: 1.45
Area: 731
Amount: 0.287735
Amount Units: ug/l



Manual Integration Results

RT: 1.42
Area: 17523
Amount: 4.684757
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:42:28
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

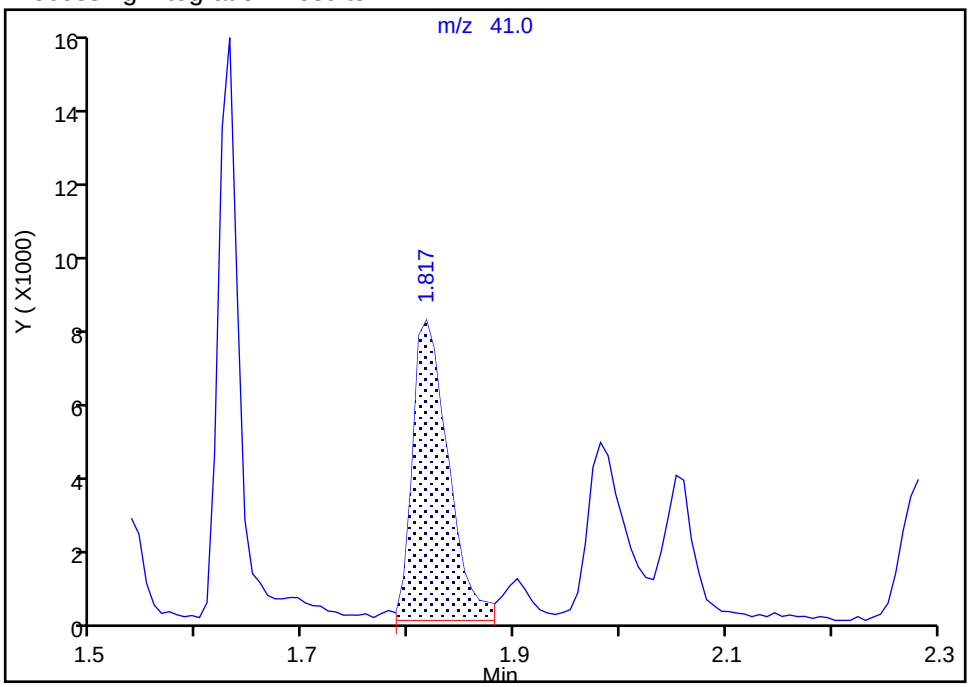
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

35 Acetonitrile, CAS: 75-05-8

Signal: 1

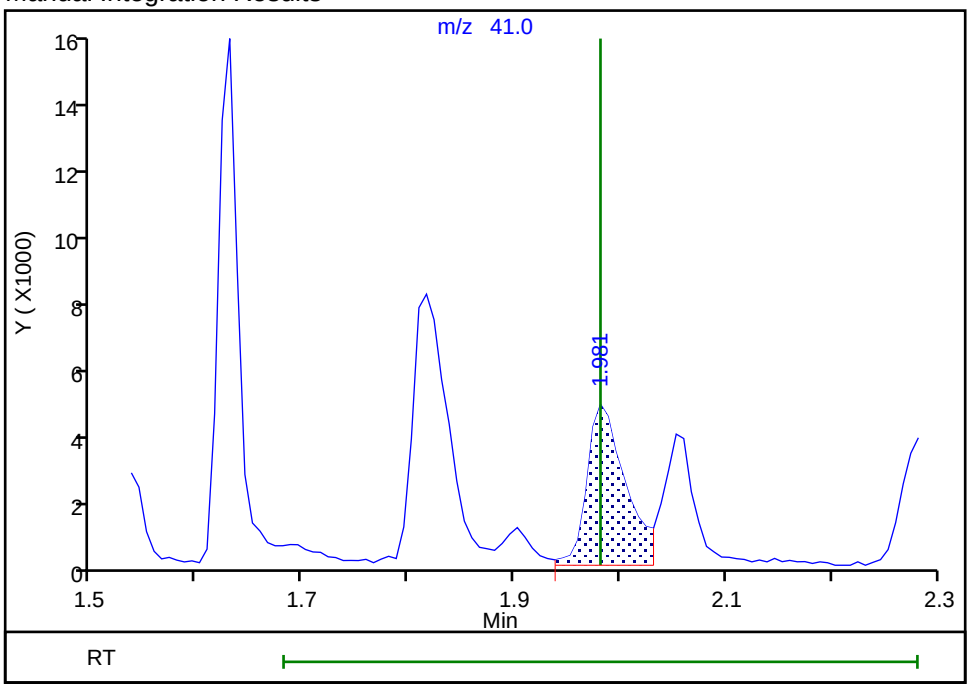
Processing Integration Results

RT: 1.82
Area: 18719
Amount: 46.439067
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 12143
Amount: 53.050268
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:43:46
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

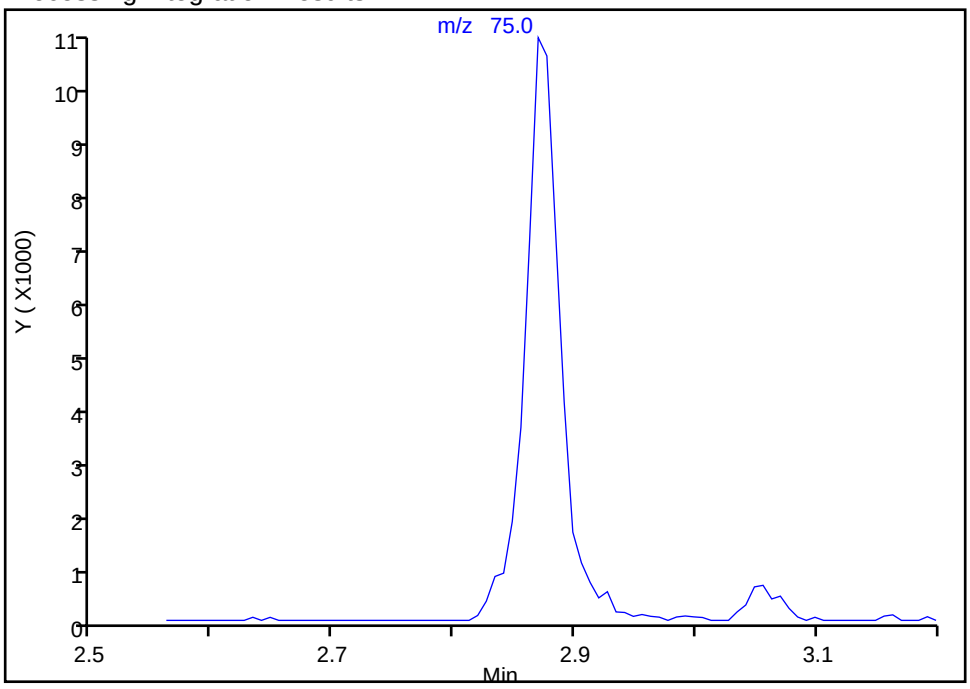
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

55 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

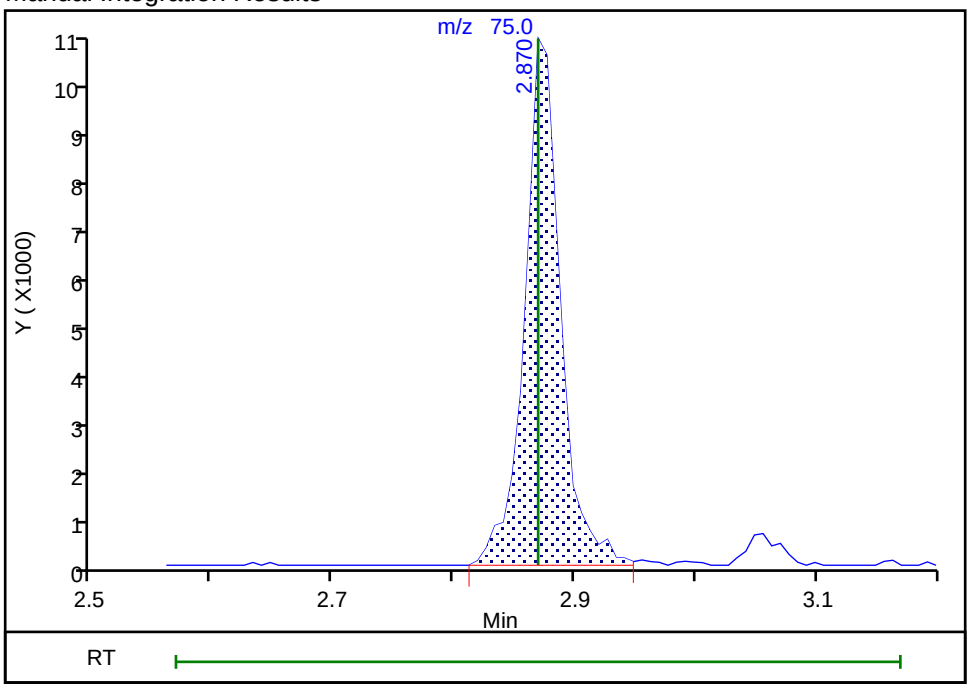
Not Detected
Expected RT: 2.87

Processing Integration Results



Manual Integration Results

RT: 2.87
Area: 21330
Amount: 5.211473
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:44:09
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

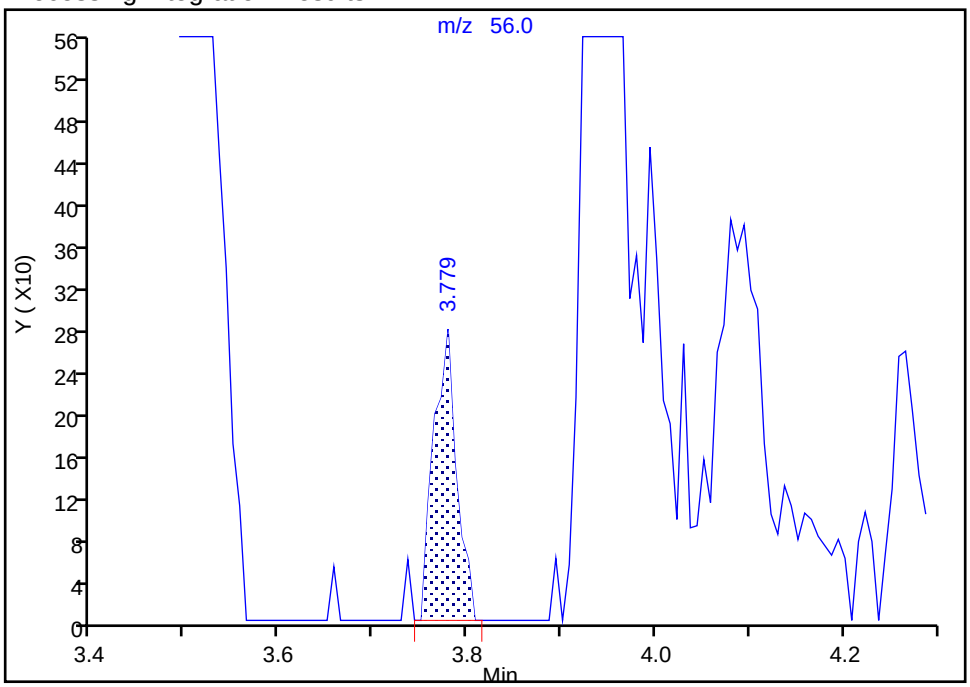
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

72 n-Butanol, CAS: 71-36-3

Signal: 1

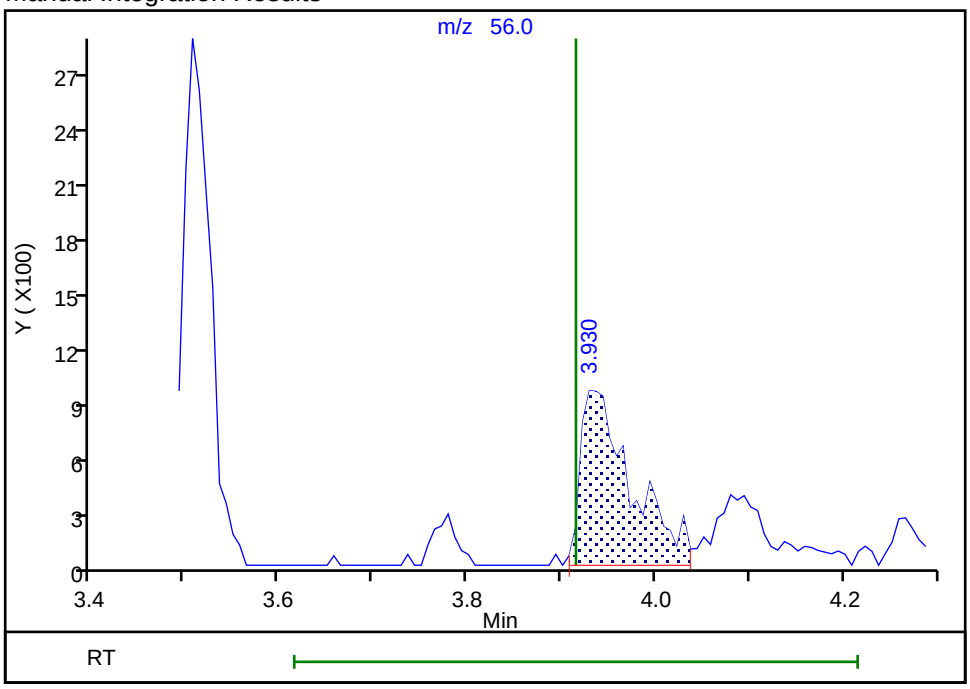
Processing Integration Results

RT: 3.78
Area: 466
Amount: 12.477019
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 3568
Amount: 94.887462
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:30:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

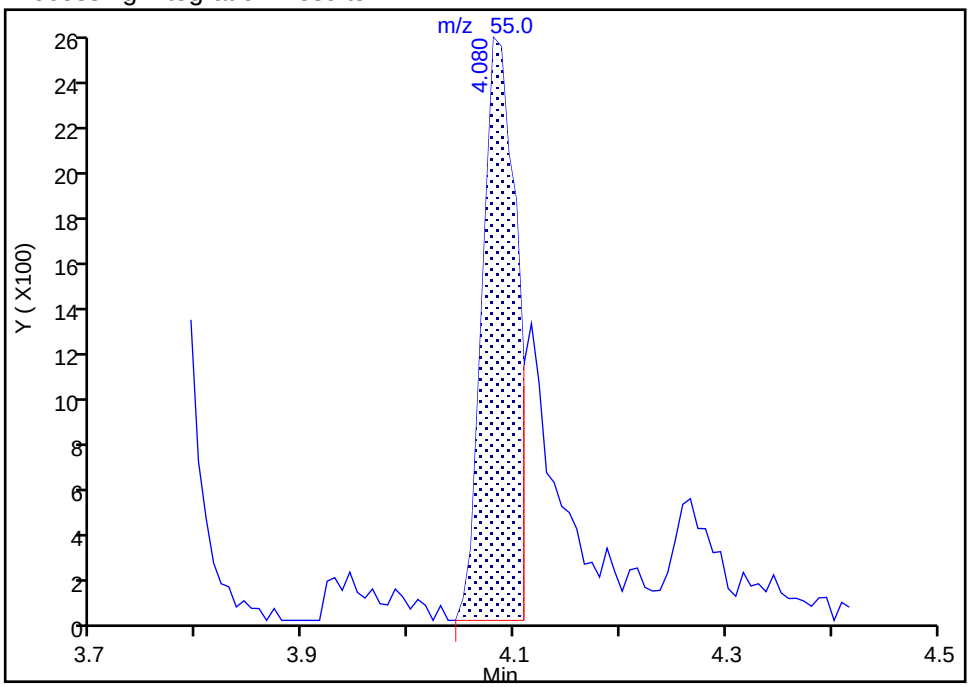
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

74 Ethyl acrylate, CAS: 140-88-5

Signal: 1

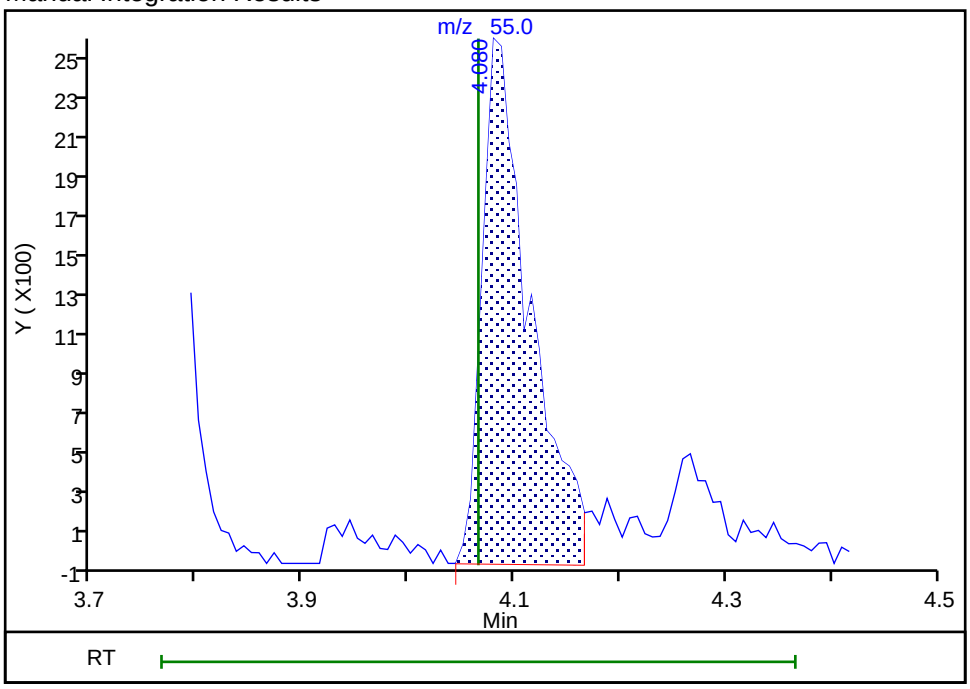
Processing Integration Results

RT: 4.08
Area: 5756
Amount: 2.563893
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 8046
Amount: 4.453863
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 11:59:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

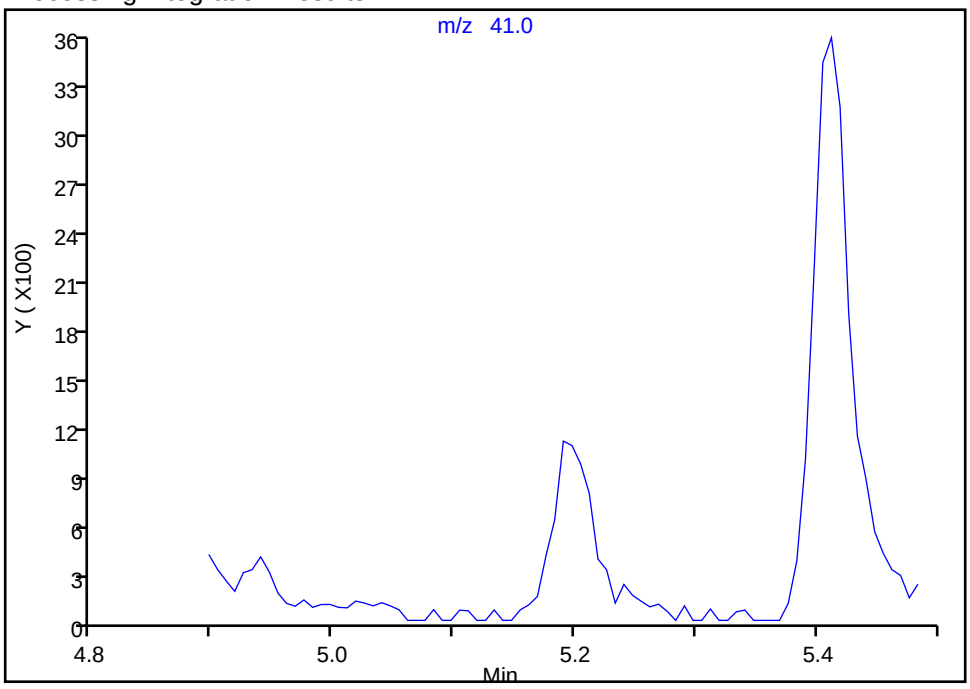
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

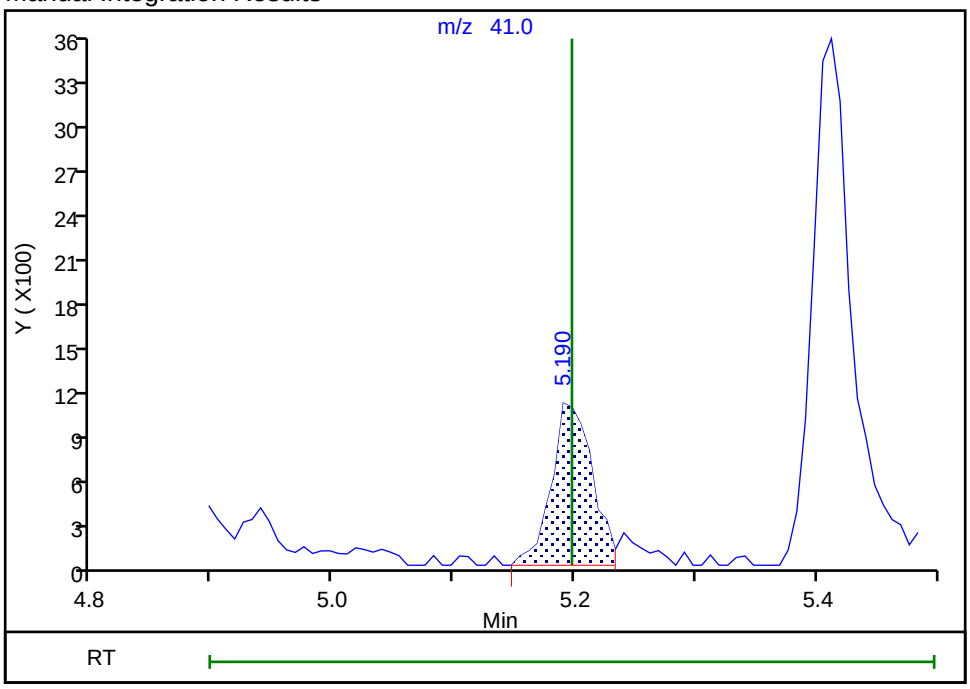
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 2558
Amount: 8.685777
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:13:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

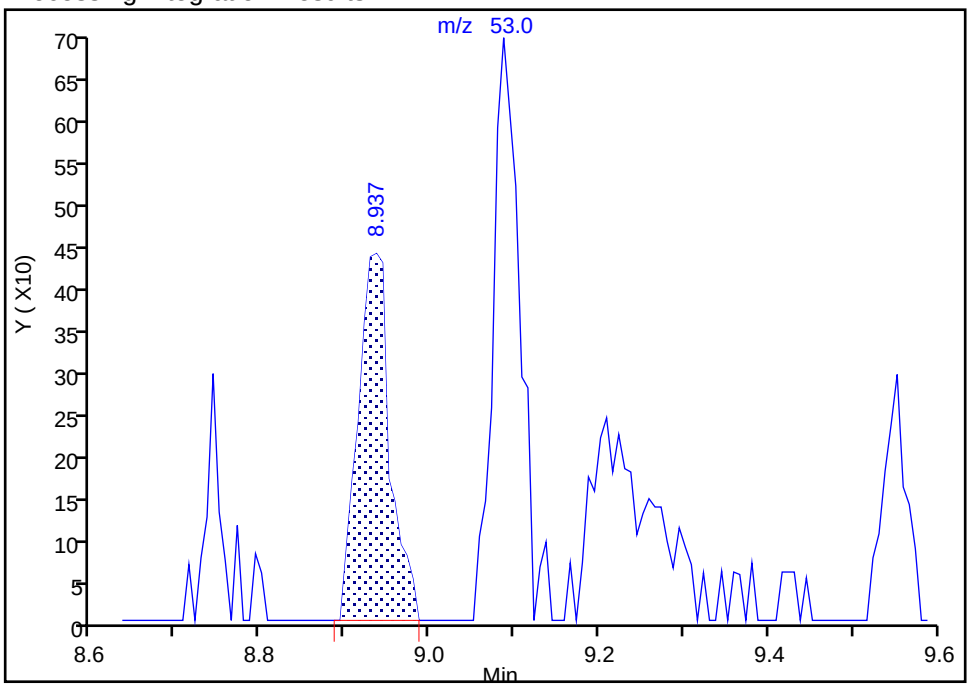
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

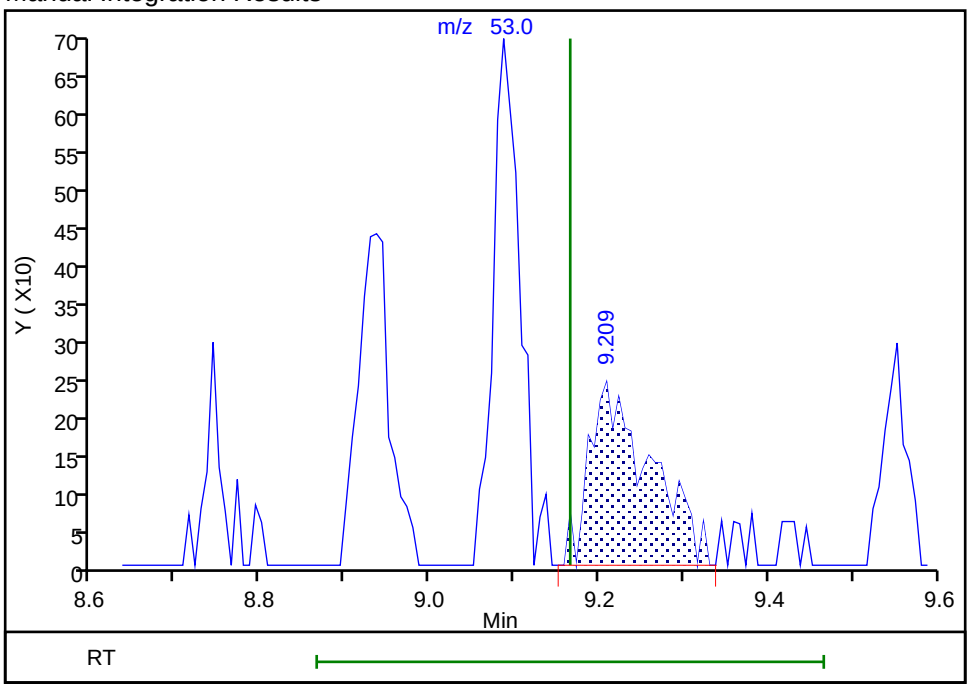
Processing Integration Results

RT: 8.94
Area: 1154
Amount: 3.377841
Amount Units: ug/l



Manual Integration Results

RT: 9.21
Area: 1211
Amount: 2.851459
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:06:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

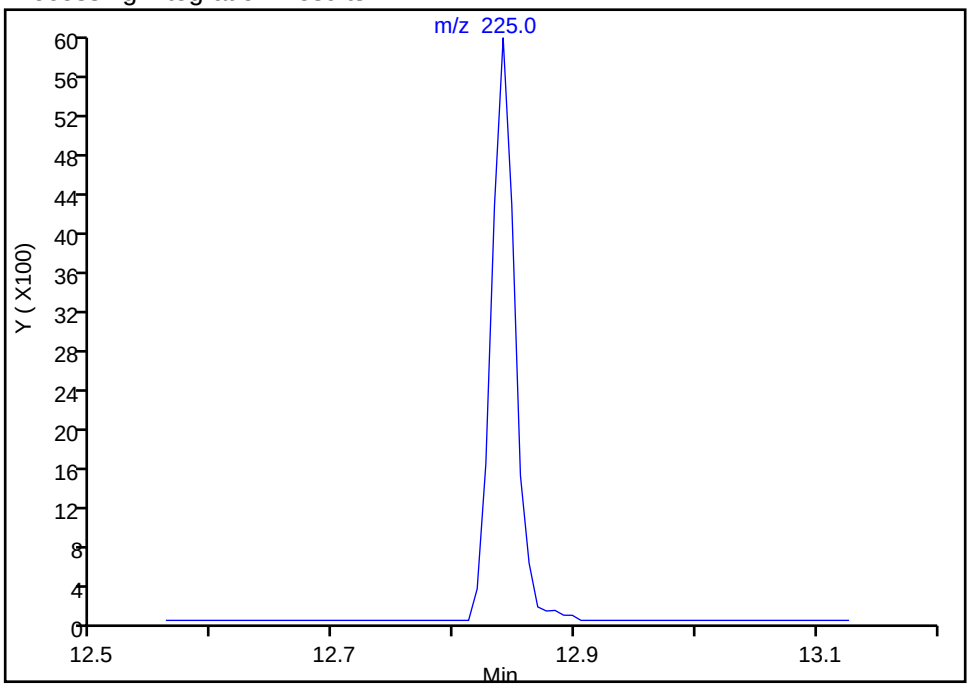
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79355.D
Injection Date: 04-Sep-2020 15:21:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

135 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

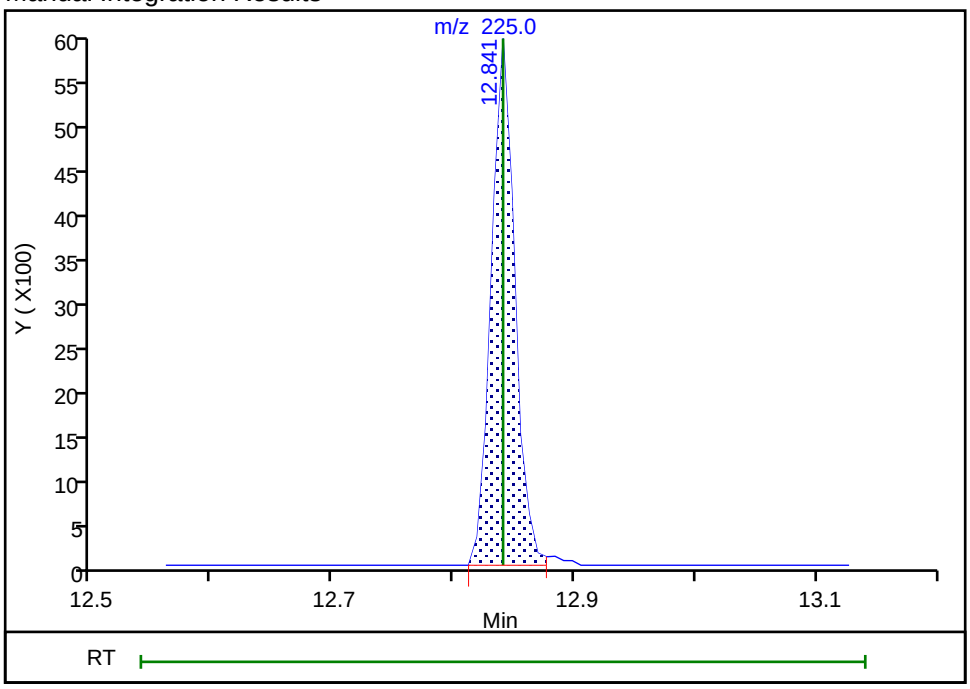
Not Detected
Expected RT: 12.84

Processing Integration Results



Manual Integration Results

RT: 12.84
Area: 8036
Amount: 4.716233
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 14:45:50
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 04-Sep-2020 15:45:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0116303-006
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:38:31 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: baronm Date: 06-Sep-2020 07:12:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.721	0.721	0.000	68	4726	20.0	18.8	M
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	87	16846	20.0	18.8	
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	99	76055	20.0	19.8	
4 1,1-Difluoroethane	65	0.807	0.807	0.000	89	34592	20.0	19.0	
5 Chlorodifluoromethane	67	0.814	0.814	0.000	95	10240	20.0	19.4	a
6 Chloromethane	50	0.892	0.892	0.000	80	100553	20.0	18.7	
8 Butadiene	54	0.892	0.892	0.000	96	72263	20.0	20.2	
7 Vinyl chloride	62	0.892	0.892	0.000	96	75711	20.0	19.3	
9 Bromomethane	94	1.036	1.036	0.000	97	28668	20.0	19.6	
10 Chloroethane	64	1.093	1.093	0.000	99	45616	20.0	21.8	M
11 Pentane	72	1.150	1.150	0.000	96	21238	40.0	44.3	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	57	70080	20.0	19.5	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	98	94922	20.0	19.7	
14 2-Methyl-1,3-butadiene	67	1.286	1.286	0.000	97	84871	20.0	20.5	
15 Ethyl ether	59	1.294	1.294	0.000	95	37723	20.0	19.6	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	50980	20.0	19.9	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	78	75300	20.0	20.1	
16 Ethanol	46	1.408	1.408	0.000	27	6934	800.0	750.1	a
19 Carbon disulfide	76	1.408	1.408	0.000	99	195533	20.0	19.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	89	50985	20.0	20.3	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.415	1.415	0.000	92	78053	20.0	20.1	
22 Iodomethane	142	1.466	1.466	0.000	97	52089	20.0	12.8	
23 Cyclopentene	67	1.537	1.537	0.000	96	144269	20.0	20.3	
24 Acrolein	56	1.559	1.559	0.000	95	8390	40.0	38.8	
25 3-Chloro-1-propene	76	1.630	1.630	0.000	94	30186	20.0	18.4	
26 Isopropyl alcohol	45	1.659	1.659	0.000	96	16121	200.0	179.3	
27 Methylene Chloride	84	1.695	1.695	0.000	91	60699	20.0	19.6	
28 Acetone	43	1.716	1.716	0.000	88	42570	100.0	91.5	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	94	58053	20.0	19.8	
30 Methyl acetate	43	1.781	1.781	0.000	98	42068	40.0	38.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	0.000	89	15447	20.0	21.8	
32 Methyl tert-butyl ether	73	1.838	1.838	0.000	88	117508	20.0	19.6	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	100	111415	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.902	1.902	0.000	100	25630	200.0	210.2	
35 Acetonitrile	41	1.981	1.981	0.000	100	42730	200.0	191.8	
36 Isopropyl ether	45	2.053	2.053	0.000	98	187280	20.0	19.9	
37 2-Chloro-1,3-butadiene	88	2.110	2.110	0.000	90	53898	20.0	20.0	
38 1,1-Dichloroethane	63	2.117	2.117	0.000	100	105914	20.0	19.4	
39 Acrylonitrile	53	2.153	2.153	0.000	95	139063	200.0	196.9	
40 Tert-butyl ethyl ether	59	2.275	2.275	0.000	89	151474	20.0	19.6	
41 Vinyl acetate	43	2.282	2.282	0.000	100	151225	40.0	36.1	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	97	60535	20.0	18.6	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	72273	20.0	19.6	
44 Cyclohexane	56	2.583	2.583	0.000	91	112116	20.0	20.5	
45 Chlorobromomethane	128	2.590	2.590	0.000	93	27217	20.0	19.2	
46 Chloroform	83	2.647	2.647	0.000	99	95335	20.0	19.5	
47 Carbon tetrachloride	117	2.733	2.733	0.000	98	53428	20.0	18.5	
48 Ethyl acetate	70	2.748	2.748	0.000	98	8210	40.0	44.3	
49 Methyl acrylate	55	2.748	2.748	0.000	77	30616	20.0	19.9	
50 Tetrahydrofuran	42	2.755	2.755	0.000	95	26816	40.0	41.5	
52 1,1,1-Trichloroethane	97	2.776	2.776	0.000	98	77080	20.0	19.6	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	98	120577	50.0	49.1	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	100	142853	250.0	250.0	
55 1,1-Dichloropropene	75	2.869	2.869	0.000	98	83603	20.0	19.7	
54 2-Butanone (MEK)	72	2.869	2.869	0.000	98	21668	100.0	103.8	
56 Isooctane	57	2.955	2.955	0.000	99	176521	20.0	20.5	
57 n-Heptane	57	3.049	3.049	0.000	92	43511	20.0	20.6	
58 Benzene	78	3.056	3.056	0.000	96	248383	20.0	20.1	
59 Propionitrile	54	3.077	3.077	0.000	94	46041	200.0	194.8	
60 Methacrylonitrile	67	3.092	3.092	0.000	91	158756	200.0	202.7	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	123183	50.0	50.0	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	99	125065	20.0	19.4	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	59557	20.0	18.7	
64 Isobutyl alcohol	43	3.292	3.292	0.000	96	28978	500.0	486.4	
65 t-Amyl alcohol	59	3.357	3.357	0.000	95	18265	200.0	188.9	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	570384	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	98	66033	20.0	18.2	
68 Methylcyclohexane	83	3.507	3.507	0.000	96	103611	20.0	20.6	
69 Trichloroethene	130	3.536	3.536	0.000	97	60650	20.0	19.7	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	93	121796	20.0	19.2	
71 Dibromomethane	93	3.894	3.894	0.000	96	27162	20.0	19.8	
72 n-Butanol	56	3.915	3.915	0.000	91	15148	500.0	412.0	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	60700	20.0	19.7	
75 Dichlorobromomethane	83	4.066	4.066	0.000	100	65786	20.0	19.5	
74 Ethyl acrylate	55	4.066	4.066	0.000	98	41058	20.0	19.9	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	93	14880	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.259	0.000	92	18324	40.0	39.9	
78 1,4-Dioxane	88	4.273	4.273	0.000	40	6975	400.0	406.5	
79 n-Propyl acetate	43	4.417	4.417	0.000	99	46190	20.0	19.9	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	96	7768	20.0	13.3	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	78477	20.0	19.4	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	510468	50.0	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	4.940	4.940	0.000	93	248986	20.0	19.8	
84 Epichlorohydrin	57	4.983	4.983	0.000	99	13992	400.0	280.7	a
85 2-Nitropropane	41	5.197	5.197	0.000	97	10374	40.0	33.9	a
86 Tetrachloroethene	166	5.362	5.362	0.000	97	56857	20.0	19.2	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.405	0.000	97	158019	100.0	106.9	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	94	64238	20.0	20.0	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	33891	20.0	19.8	
90 Ethyl methacrylate	69	5.699	5.699	0.000	90	48156	20.0	19.9	
91 Chlorodibromomethane	129	5.799	5.799	0.000	98	42676	20.0	19.3	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	95	72110	20.0	20.2	
93 Ethylene Dibromide	107	6.050	6.050	0.000	98	37940	20.0	20.6	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	46824	20.0	19.5	
95 2-Hexanone	43	6.458	6.458	0.000	95	109780	100.0	110.7	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	396072	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	94	154586	20.0	19.6	
98 Ethylbenzene	106	6.831	6.831	0.000	98	87032	20.0	19.7	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	96	47888	20.0	19.7	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	108099	20.0	20.9	
101 o-Xylene	106	7.626	7.626	0.000	94	103586	20.0	19.8	
102 Bromoform	173	7.690	7.690	0.000	95	23389	20.0	18.7	
103 Styrene	104	7.719	7.719	0.000	97	172023	20.0	20.5	
104 n-Butyl acrylate	73	8.056	8.056	0.000	98	27988	20.0	20.0	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	275910	20.0	20.3	
106 Amyl acetate (mixed isomers)	43	8.471	8.471	0.000	88	65023	20.0	20.4	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	92	161410	50.0	50.3	
108 Bromobenzene	156	8.586	8.586	0.000	98	64671	20.0	19.8	
109 N-Propylbenzene	91	8.743	8.743	0.000	99	333905	20.0	20.5	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	97	45006	20.0	19.9	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	221339	20.0	19.7	
112 4-Ethyltoluene	105	8.929	8.929	0.000	98	272920	20.0	20.1	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	12409	20.0	20.7	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	93	227437	20.0	20.1	
115 trans-1,4-Dichloro-2-butene	53	9.166	9.166	0.000	80	7238	20.0	16.7	
116 4-Chlorotoluene	91	9.173	9.173	0.000	98	200889	20.0	20.3	
117 tert-Butylbenzene	119	9.545	9.545	0.000	95	197112	20.0	20.1	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	235892	20.0	20.2	
119 Butyl Methacrylate	87	9.696	9.696	0.000	93	62255	20.0	19.8	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	301449	20.0	20.3	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	96	129288	20.0	20.1	
122 4-Isopropyltoluene	119	10.118	10.118	0.000	98	256268	20.0	20.4	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	95	220745	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.247	10.247	0.000	96	133344	20.0	19.7	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	237975	20.0	20.1	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	229507	20.0	20.0	
127 Benzyl chloride	126	10.713	10.713	0.000	97	13077	20.0	19.1	
128 p-Diethylbenzene	119	10.727	10.727	0.000	93	126096	20.0	20.0	
129 n-Butylbenzene	91	10.813	10.813	0.000	99	234371	20.0	20.5	
130 1,2-Dichlorobenzene	146	10.921	10.921	0.000	97	116216	20.0	19.7	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	225892	20.0	20.5	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	93	7792	20.0	20.7	
133 1,3,5-Trichlorobenzene	180	12.124	12.124	0.000	98	95559	20.0	20.4	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	78620	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.840	12.840	0.000	97	34508	20.0	19.9	
136 Naphthalene	128	13.127	13.127	0.000	100	138476	20.0	19.1	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	64083	20.0	19.9	
S 138 1,2-Dichloroethene, Total	100				0		40.0	38.4	
S 139 1,3-Dichloropropene, Total	100				0		40.0	39.3	
S 140 Xylenes, Total	100				0		40.0	40.7	
S 142 Total BTEX	1				0		100.0	100.3	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
524freon_00027	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 10:38:35 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D

Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13 Operator ID:

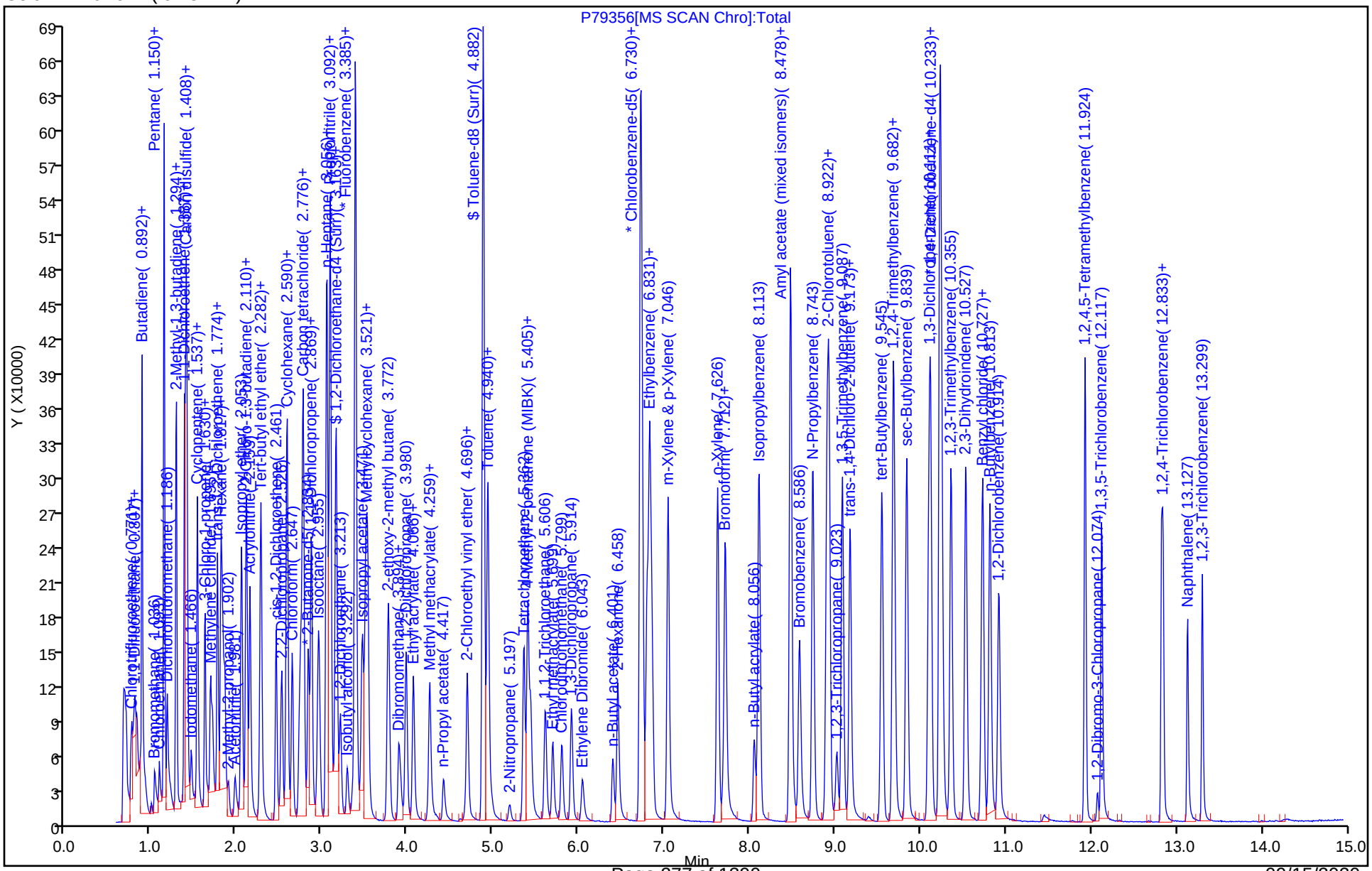
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

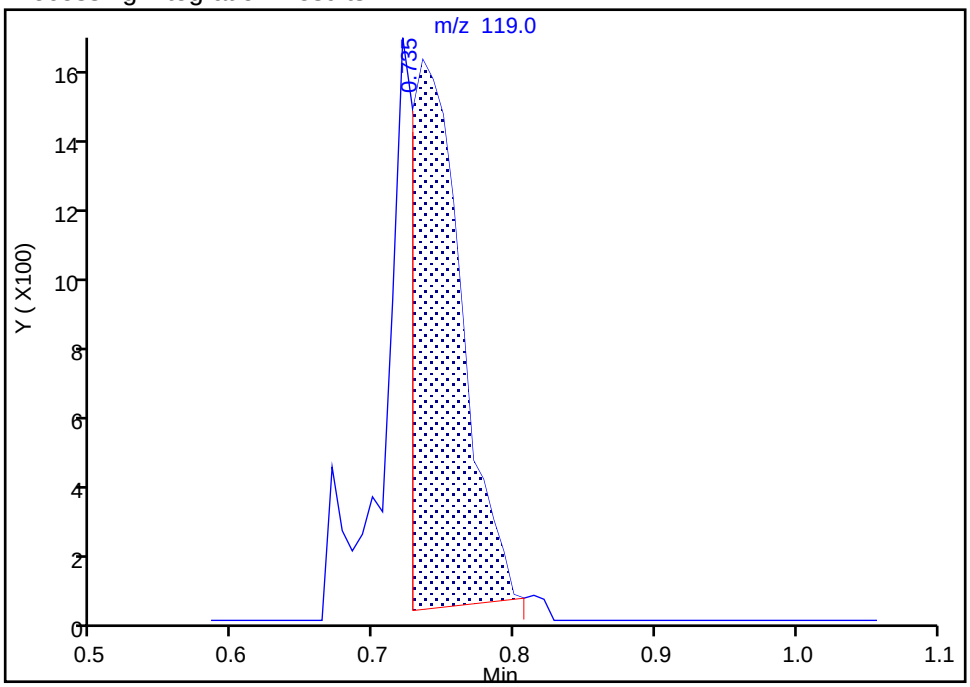
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Monochloropentafluoroethane, CAS: 76-15-3

Signal: 1

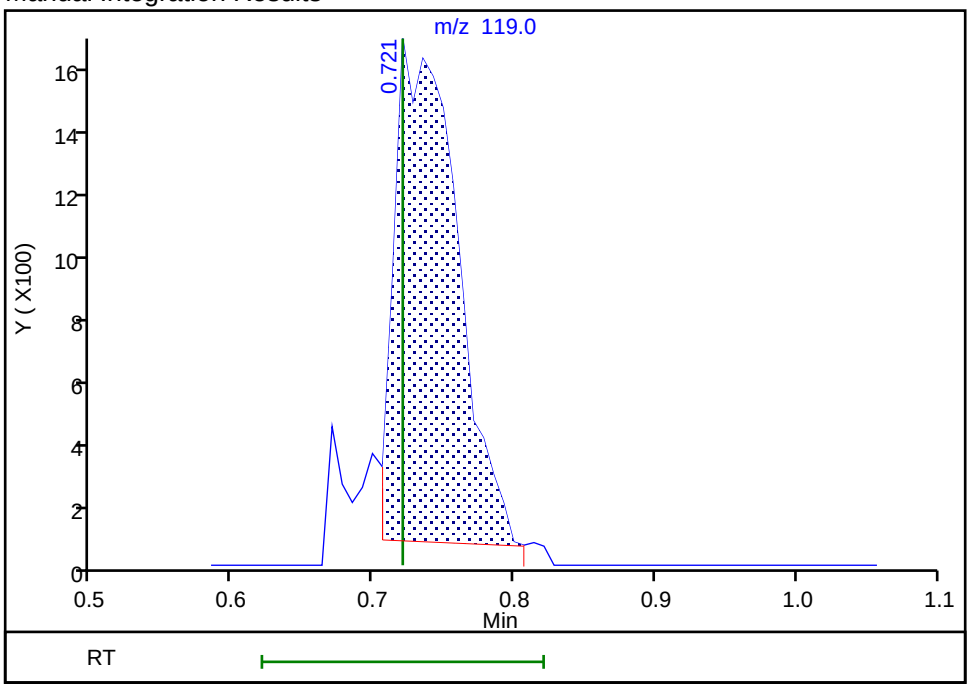
Processing Integration Results

RT: 0.73
Area: 3739
Amount: 15.366439
Amount Units: ug/l



Manual Integration Results

RT: 0.72
Area: 4726
Amount: 18.787706
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:03:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

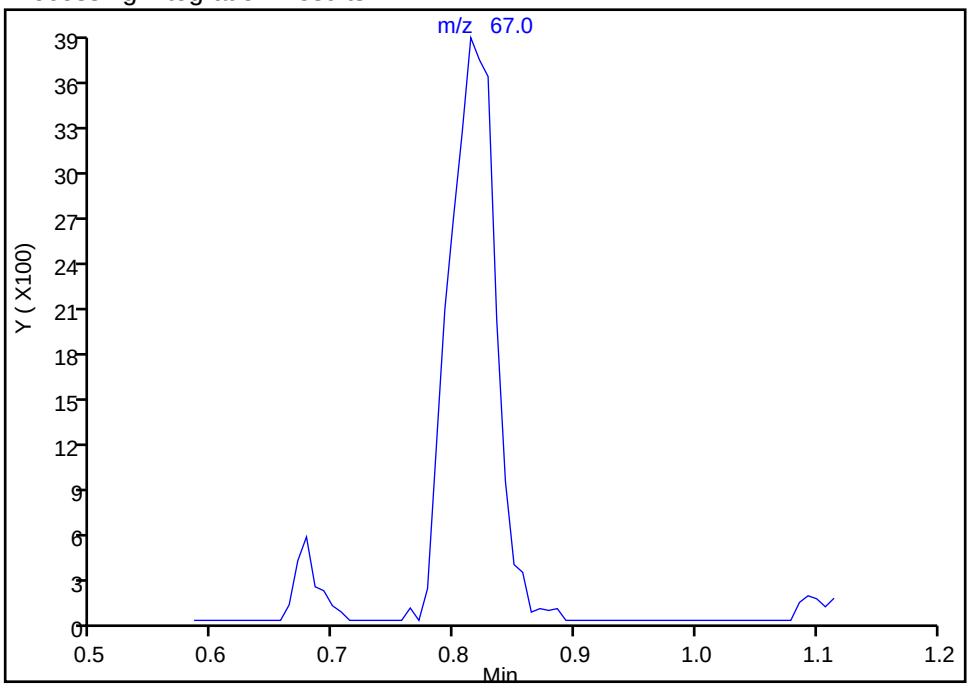
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

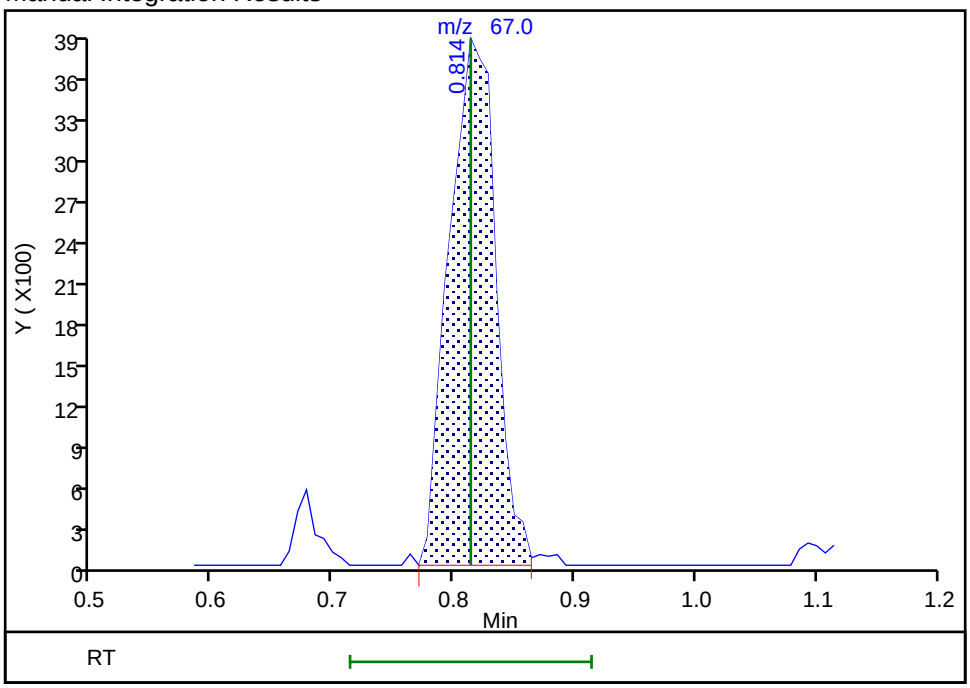
Not Detected
Expected RT: 0.81

Processing Integration Results



Manual Integration Results

RT: 0.81
Area: 10240
Amount: 19.440349
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 15:04:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

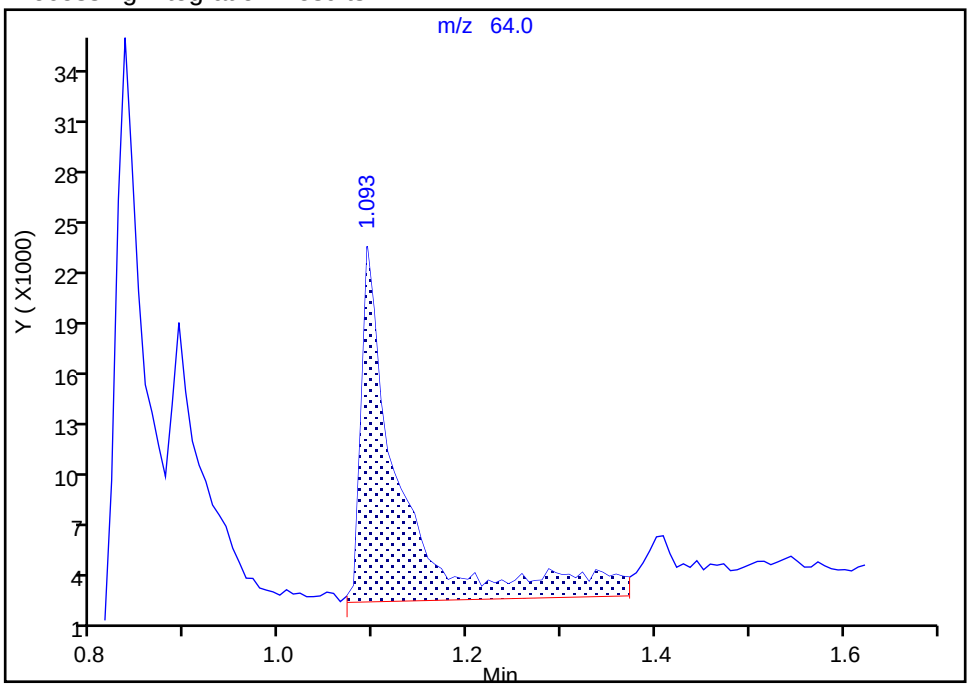
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Chloroethane, CAS: 75-00-3

Signal: 1

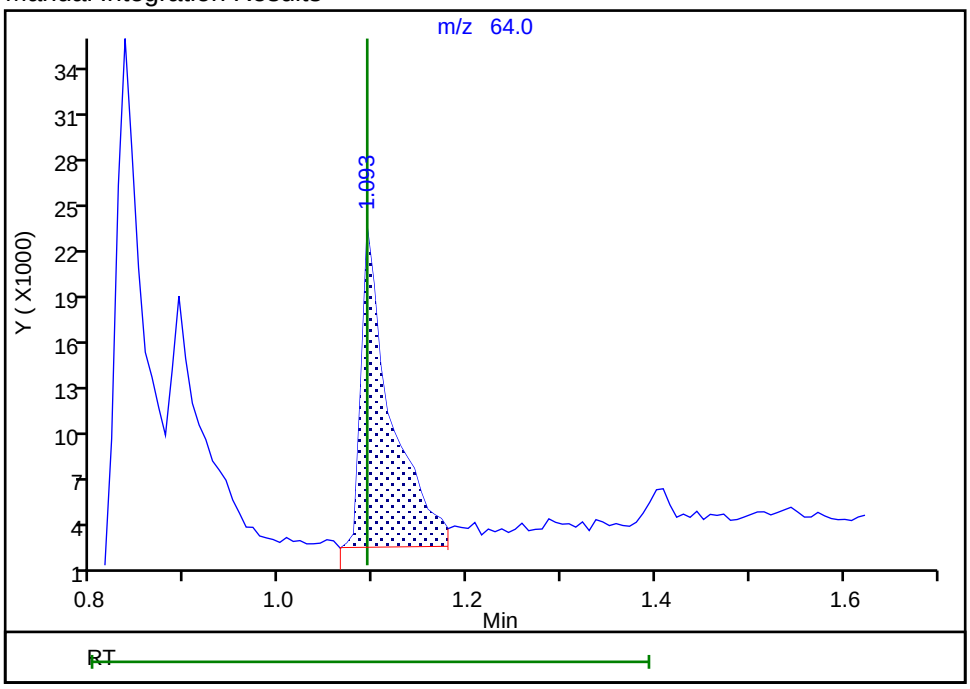
Processing Integration Results

RT: 1.09
Area: 60101
Amount: 26.802940
Amount Units: ug/l



Manual Integration Results

RT: 1.09
Area: 45616
Amount: 21.830145
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:04:09
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Edison

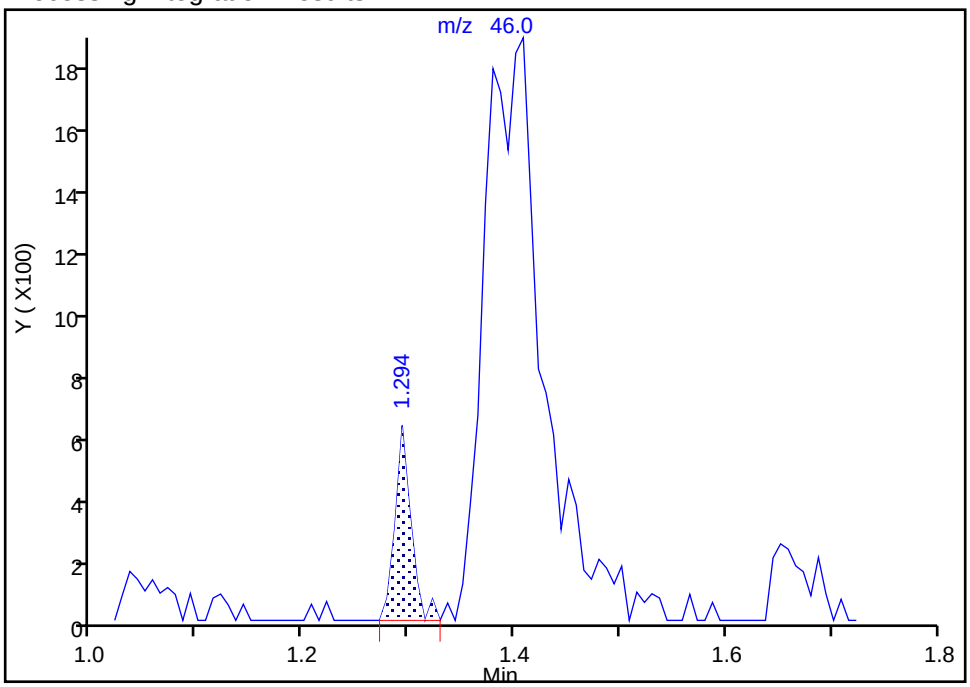
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

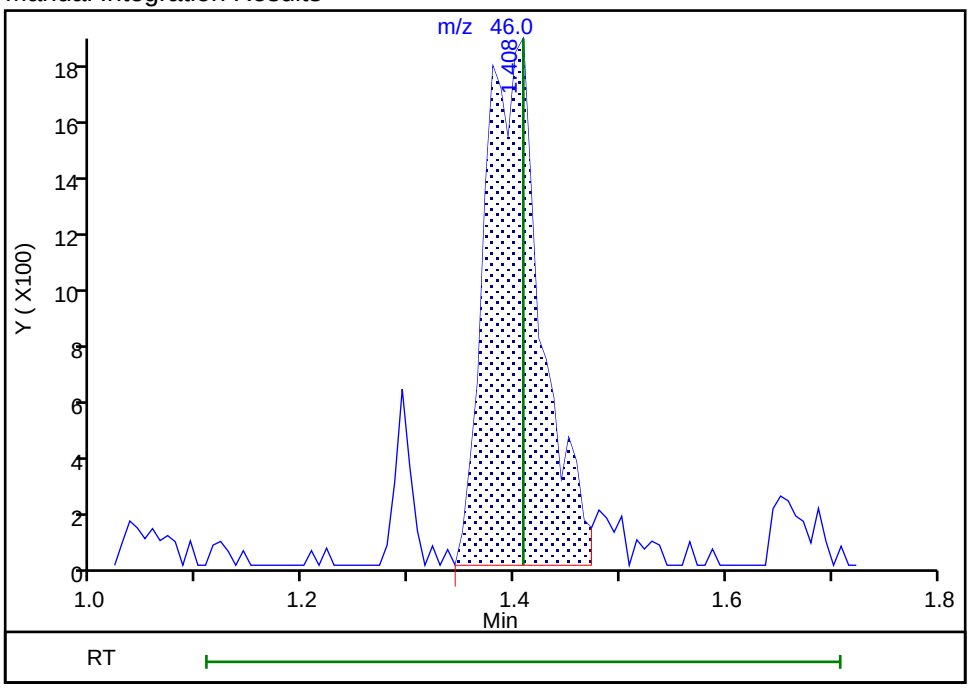
Processing Integration Results

RT: 1.29
Area: 663
Amount: 112.3043
Amount Units: ug/l



Manual Integration Results

RT: 1.41
Area: 6934
Amount: 750.1125
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 15:04:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

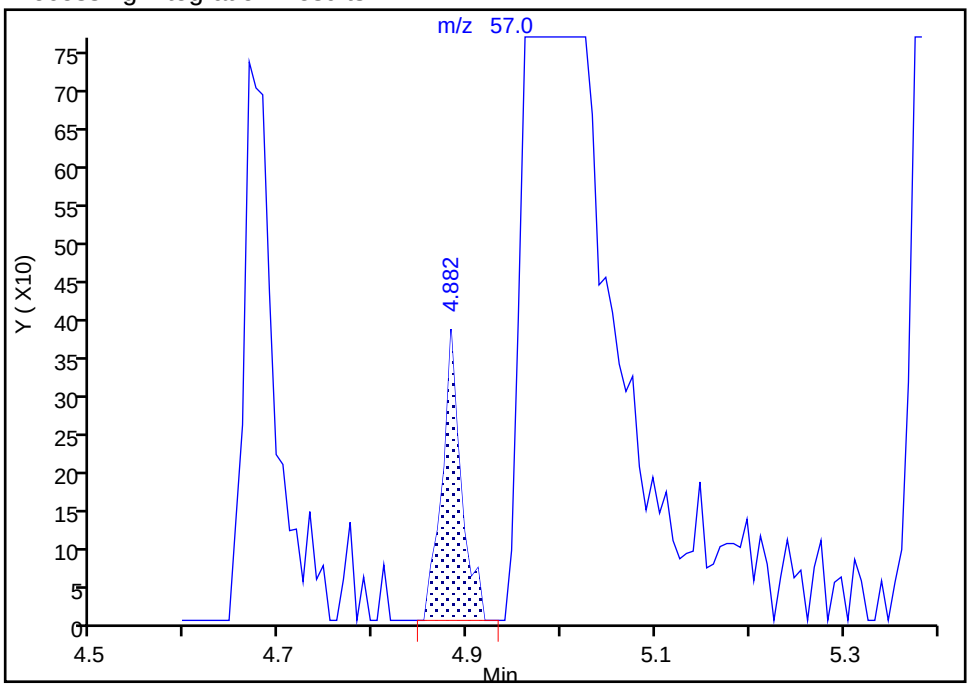
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

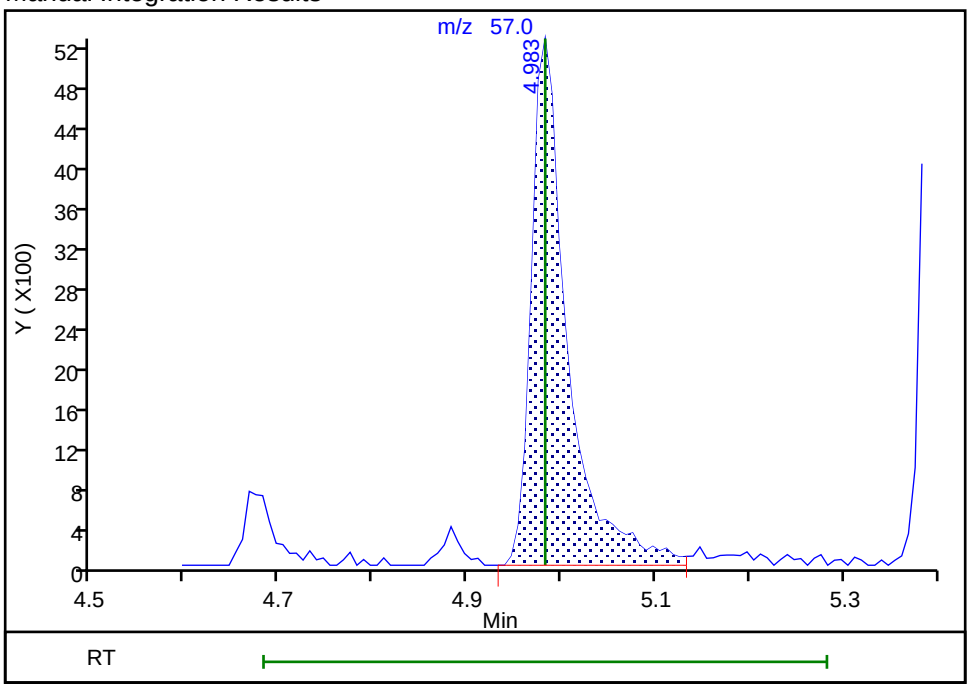
Processing Integration Results

RT: 4.88
Area: 539
Amount: 15.183941
Amount Units: ug/l



Manual Integration Results

RT: 4.98
Area: 13992
Amount: 280.7404
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 15:06:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

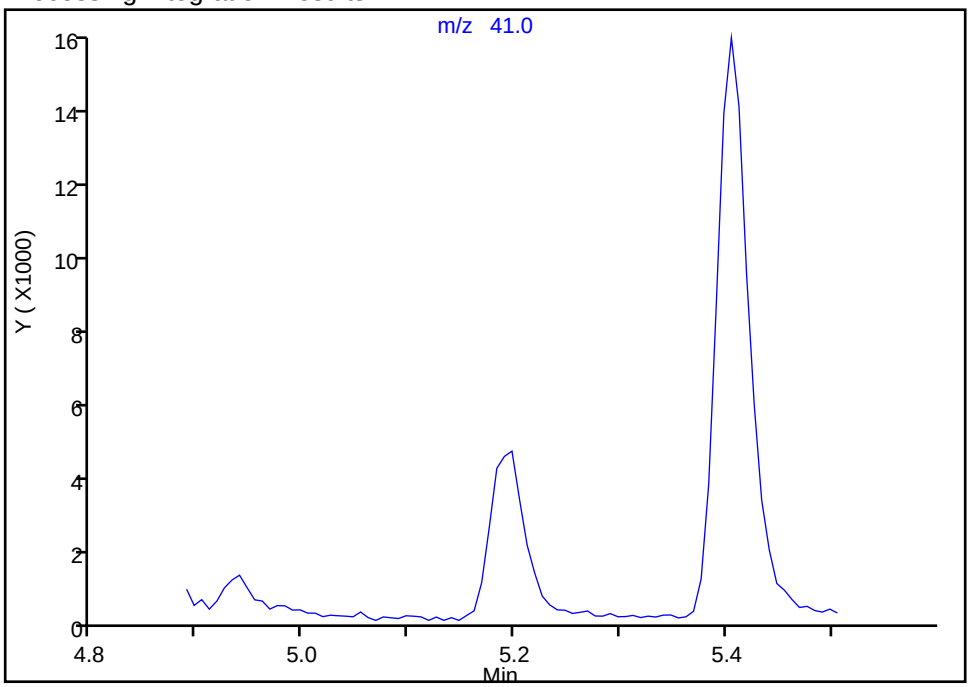
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79356.D
Injection Date: 04-Sep-2020 15:45:30 Instrument ID: CVOAMS13
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

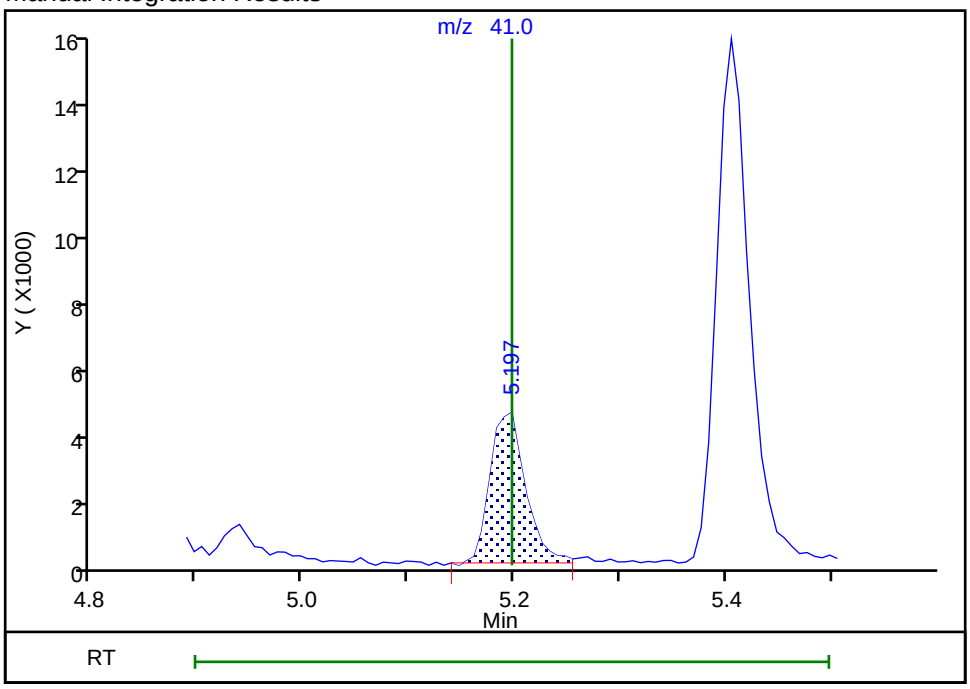
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 10374
Amount: 33.892556
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:12:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79357.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 04-Sep-2020 16:09:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0116303-007
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:38:49 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: starzecm Date: 04-Sep-2020 15:37:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.728	0.721	0.007	70	11186	50.0	44.7	
2 Chlorotrifluoroethene	116	0.757	0.756	0.001	88	41027	50.0	46.1	
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	99	187202	50.0	48.9	
4 1,1-Difluoroethane	65	0.807	0.807	0.000	93	83104	50.0	45.8	
5 Chlorodifluoromethane	67	0.821	0.814	0.007	97	25723	50.0	49.1	a
6 Chloromethane	50	0.893	0.892	0.001	98	265854	50.0	49.8	
8 Butadiene	54	0.893	0.892	0.001	92	180254	50.0	50.7	
7 Vinyl chloride	62	0.893	0.892	0.001	56	195179	50.0	49.9	
9 Bromomethane	94	1.036	1.036	0.000	99	74861	50.0	47.0	
10 Chloroethane	64	1.093	1.093	0.000	99	106827	50.0	51.4	
11 Pentane	72	1.150	1.150	0.000	96	47651	100.0	93.6	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	61	183391	50.0	51.4	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	99	243460	50.0	50.7	
14 2-Methyl-1,3-butadiene	67	1.287	1.286	0.001	96	205064	50.0	49.9	
15 Ethyl ether	59	1.294	1.294	0.000	92	96289	50.0	50.2	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	75	180162	50.0	48.3	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	124171	50.0	48.6	
16 Ethanol	46	1.408	1.408	0.000	76	18644	2000.0	1899.7	a
19 Carbon disulfide	76	1.408	1.408	0.000	99	480480	50.0	48.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.416	1.408	0.008	92	119706	50.0	47.9	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.416	1.415	0.001	92	190942	50.0	49.4	
22 Iodomethane	142	1.466	1.466	0.000	95	162100	50.0	40.1	
23 Cyclopentene	67	1.537	1.537	0.000	96	346990	50.0	49.0	
24 Acrolein	56	1.559	1.559	0.000	96	22758	100.0	99.0	
25 3-Chloro-1-propene	76	1.630	1.630	0.000	94	80220	50.0	49.2	
26 Isopropyl alcohol	45	1.659	1.659	0.000	97	43572	500.0	456.4	
27 Methylene Chloride	84	1.695	1.695	0.000	92	151225	50.0	49.1	
28 Acetone	43	1.716	1.716	0.000	87	109326	250.0	218.9	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	144381	50.0	49.4	
30 Methyl acetate	43	1.781	1.781	0.000	99	129401	100.0	112.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	0.000	89	34872	50.0	49.5	
32 Methyl tert-butyl ether	73	1.838	1.838	0.000	88	302014	50.0	50.6	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	99	118290	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.903	1.902	0.001	100	63871	500.0	492.7	
35 Acetonitrile	41	1.981	1.981	0.000	100	119206	500.0	504.0	
36 Isopropyl ether	45	2.053	2.053	0.000	98	479907	50.0	51.3	
37 2-Chloro-1,3-butadiene	88	2.110	2.110	0.000	90	134890	50.0	50.4	
38 1,1-Dichloroethane	63	2.117	2.117	0.000	100	267263	50.0	49.3	
39 Acrylonitrile	53	2.153	2.153	0.000	94	349337	500.0	497.2	
40 Tert-butyl ethyl ether	59	2.282	2.275	0.007	89	393578	50.0	51.1	
41 Vinyl acetate	43	2.282	2.282	0.000	100	414482	100.0	99.4	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	98	152965	50.0	47.3	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	99	183711	50.0	50.0	
44 Cyclohexane	56	2.583	2.583	0.000	92	262475	50.0	48.3	
45 Chlorobromomethane	128	2.590	2.590	0.000	90	69379	50.0	49.1	
46 Chloroform	83	2.648	2.647	0.001	99	241017	50.0	49.6	
47 Carbon tetrachloride	117	2.734	2.733	0.001	98	139102	50.0	48.5	
48 Ethyl acetate	70	2.748	2.748	0.000	98	20943	100.0	103.8	
49 Methyl acrylate	55	2.748	2.748	0.000	58	79700	50.0	52.1	
50 Tetrahydrofuran	42	2.755	2.755	0.000	95	69916	100.0	99.4	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	97	120630	50.0	49.4	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	98	197131	50.0	50.5	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	99	155624	250.0	250.0	
55 1,1-Dichloropropene	75	2.870	2.869	0.001	98	202888	50.0	48.1	
54 2-Butanone (MEK)	72	2.870	2.869	0.001	100	55843	250.0	245.6	
56 Isooctane	57	2.956	2.955	0.001	99	398266	50.0	46.5	
57 n-Heptane	57	3.049	3.049	0.000	92	99655	50.0	47.4	
58 Benzene	78	3.056	3.056	0.000	96	623917	50.0	50.1	
59 Propionitrile	54	3.077	3.077	0.000	97	130125	500.0	518.4	
60 Methacrylonitrile	67	3.092	3.092	0.000	91	404787	500.0	519.5	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	130501	50.0	53.2	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	99	330913	50.0	51.6	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	155414	50.0	49.0	
64 Isobutyl alcohol	43	3.292	3.292	0.000	95	75173	1250.0	1188.5	
65 t-Amyl alcohol	59	3.357	3.357	0.000	96	49048	500.0	477.8	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	567446	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	189901	50.0	52.7	
68 Methylcyclohexane	83	3.514	3.507	0.007	96	245162	50.0	49.0	
69 Trichloroethene	130	3.536	3.536	0.000	98	153554	50.0	50.1	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	93	318350	50.0	50.4	
71 Dibromomethane	93	3.894	3.894	0.000	96	69397	50.0	50.8	
72 n-Butanol	56	3.915	3.915	0.000	88	44814	1250.0	1136.4	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	93	157156	50.0	51.2	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	172749	50.0	51.3	
74 Ethyl acrylate	55	4.066	4.066	0.000	68	111737	50.0	52.9	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	73	15812	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.259	0.000	92	48928	100.0	107.1	
78 1,4-Dioxane	88	4.266	4.273	-0.007	96	18706	1000.0	1025.8	
79 n-Propyl acetate	43	4.417	4.417	0.000	100	123542	50.0	53.6	
80 2-Chloroethyl vinyl ether	63	4.668	4.675	-0.007	96	27833	50.1	47.9	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	217536	50.0	53.3	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	511255	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	4.933	4.940	-0.007	93	633484	50.0	50.0	
84 Epichlorohydrin	57	4.968	4.983	-0.015	100	52334	1000.0	920.4	a
85 2-Nitropropane	41	5.190	5.197	-0.007	98	30161	100.0	99.0	a
86 Tetrachloroethene	166	5.355	5.362	-0.007	98	148555	50.0	49.8	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.405	0.000	95	415853	250.0	258.3	
88 trans-1,3-Dichloropropene	75	5.434	5.441	-0.007	94	175032	50.0	54.0	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	88686	50.0	51.4	
90 Ethyl methacrylate	69	5.692	5.699	-0.007	90	127890	50.0	53.1	
91 Chlorodibromomethane	129	5.799	5.799	0.000	98	112017	50.0	50.3	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	94	187991	50.0	52.3	
93 Ethylene Dibromide	107	6.043	6.050	-0.007	99	99746	50.0	53.8	
94 n-Butyl acetate	43	6.394	6.401	-0.007	99	129286	50.0	52.0	
95 2-Hexanone	43	6.451	6.458	-0.007	95	289479	250.0	267.9	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	399105	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	396659	50.0	50.0	
98 Ethylbenzene	106	6.831	6.831	0.000	98	222648	50.0	50.1	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	95	130225	50.0	53.0	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	272822	50.0	52.3	
101 o-Xylene	106	7.626	7.626	0.000	95	267785	50.0	50.8	
102 Bromoform	173	7.690	7.690	0.000	96	65010	50.0	51.7	
103 Styrene	104	7.712	7.719	-0.007	96	444655	50.0	52.7	
104 n-Butyl acrylate	73	8.048	8.056	-0.008	97	73809	50.0	51.1	
105 Isopropylbenzene	105	8.106	8.113	-0.007	95	692109	50.0	50.6	
106 Amyl acetate (mixed isomers)	43	8.464	8.471	-0.007	90	176787	50.0	53.0	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	92	165058	50.0	51.1	
108 Bromobenzene	156	8.586	8.586	0.000	98	169325	50.0	50.9	
109 N-Propylbenzene	91	8.736	8.743	-0.007	99	845216	50.0	50.8	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	98	120554	50.0	52.3	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	561931	50.0	49.0	
112 4-Ethyltoluene	105	8.930	8.929	0.001	98	693783	50.0	50.2	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	99	32185	50.0	52.8	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	581260	50.0	50.4	
115 trans-1,4-Dichloro-2-butene	53	9.152	9.166	-0.014	39	21533	50.0	48.9	
116 4-Chlorotoluene	91	9.173	9.173	0.000	98	514860	50.0	51.1	
117 tert-Butylbenzene	119	9.546	9.545	0.001	95	497969	50.0	49.9	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	600215	50.0	50.4	
119 Butyl Methacrylate	87	9.696	9.696	0.000	92	171118	50.0	52.0	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	756973	50.0	50.0	
121 1,3-Dichlorobenzene	146	10.090	10.097	-0.007	98	333939	50.0	50.8	
122 4-Isopropyltoluene	119	10.119	10.118	0.001	98	647792	50.0	50.7	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	224980	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.247	0.001	96	342051	50.0	49.5	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	609921	50.0	50.6	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	95	586285	50.0	50.1	
127 Benzyl chloride	126	10.706	10.713	-0.007	98	40821	50.0	55.8	
128 p-Diethylbenzene	119	10.727	10.727	0.000	94	325177	50.0	50.5	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	594378	50.0	51.0	
130 1,2-Dichlorobenzene	146	10.914	10.921	-0.007	97	307828	50.0	51.2	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	594174	50.0	53.0	
132 1,2-Dibromo-3-Chloropropane	157	12.067	12.074	-0.007	95	21742	50.0	56.6	
133 1,3,5-Trichlorobenzene	180	12.117	12.124	-0.007	98	250860	50.0	52.6	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	209542	50.0	52.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.841	12.840	0.001	97	85054	50.0	48.1	
136 Naphthalene	128	13.120	13.127	-0.007	100	367710	50.0	49.8	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	166305	50.0	50.8	
S 138 1,2-Dichloroethene, Total	100				0		100.0	96.8	
S 139 1,3-Dichloropropene, Total	100				0		100.0	107.2	
S 140 Xylenes, Total	100				0		100.0	103.1	
S 142 Total BTEX	1				0		250.0	253.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added: 50.00	Units: uL		
ACROLEIN W_00112	Amount Added: 10.00	Units: uL		
GASES Li_00384	Amount Added: 50.00	Units: uL		
524freon_00027	Amount Added: 50.00	Units: uL		
8260ISNEW_00129	Amount Added: 1.00	Units: uL	Run Reagent	
8260SURR250_00212	Amount Added: 1.00	Units: uL	Run Reagent	

Report Date: 10-Sep-2020 10:38:54 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79357.D

Injection Date: 04-Sep-2020 16:09:30 Instrument ID: CVOAMS13 Operator ID:

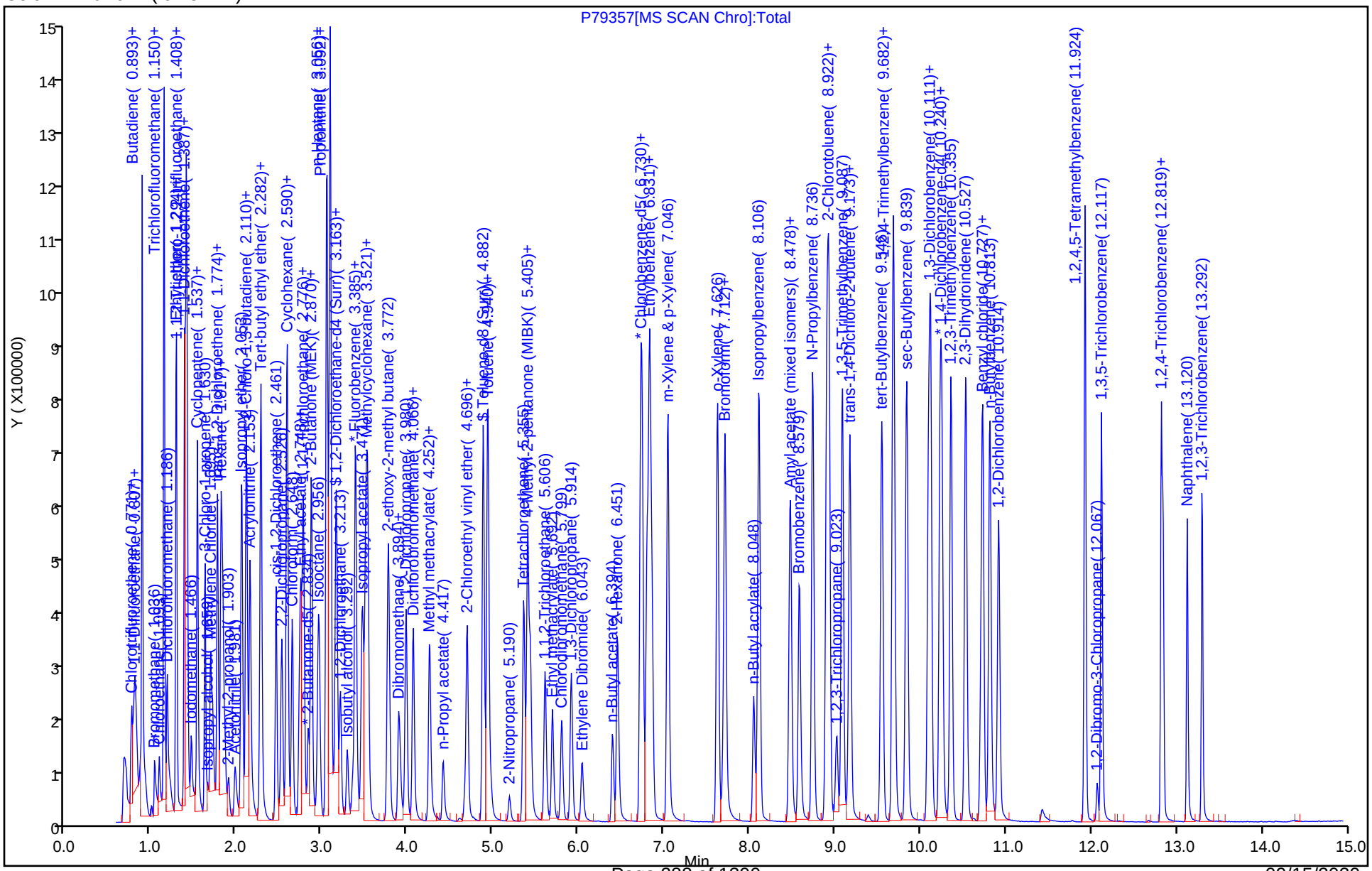
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

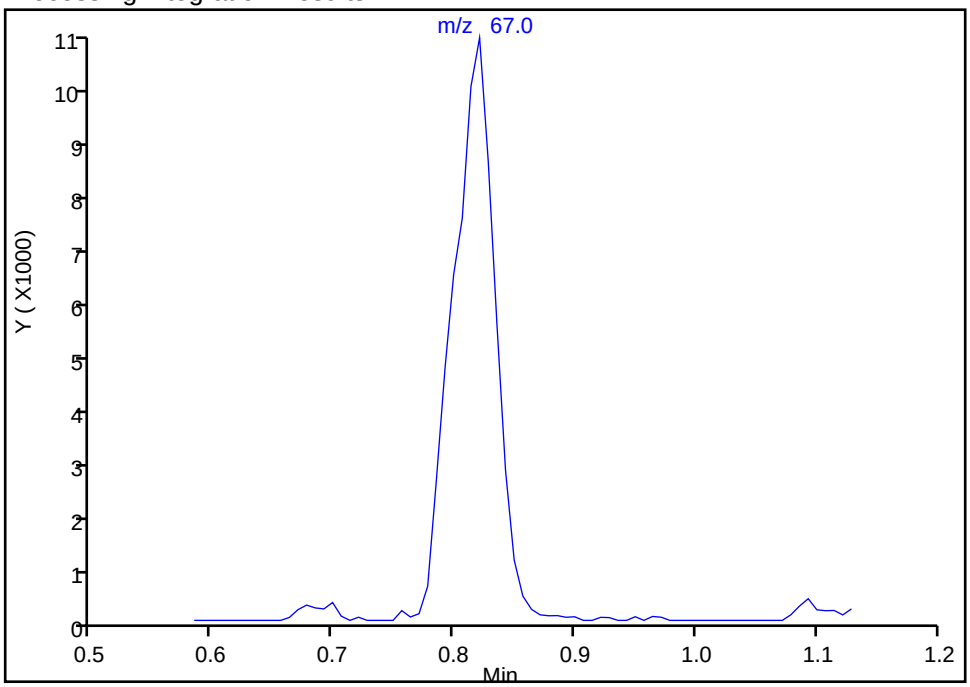
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79357.D
Injection Date: 04-Sep-2020 16:09:30 Instrument ID: CVOAMS13
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

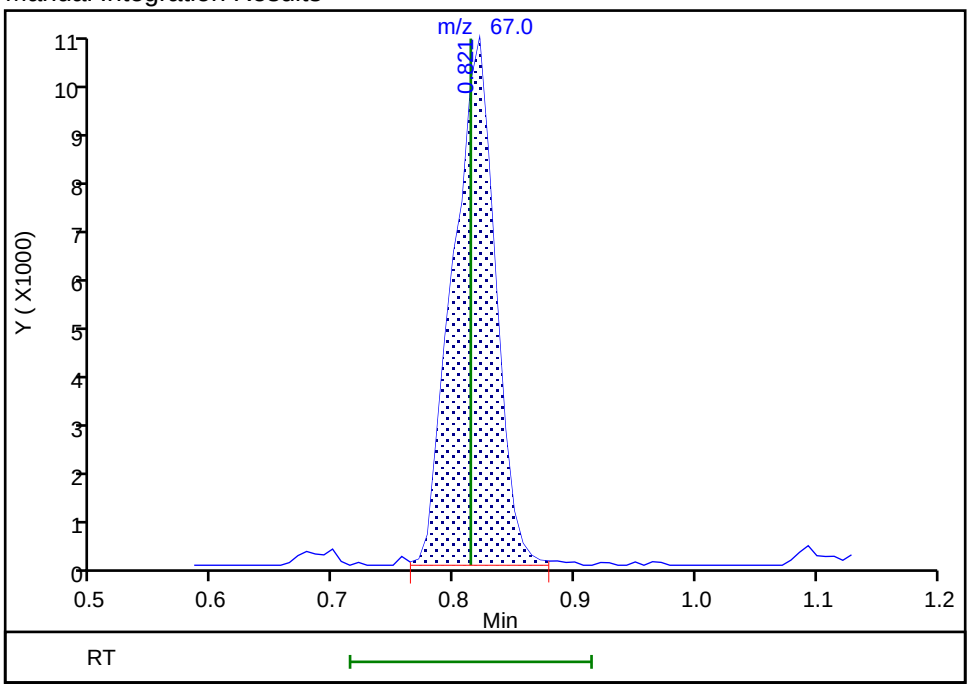
Not Detected
Expected RT: 0.81

Processing Integration Results



Manual Integration Results

RT: 0.82
Area: 25723
Amount: 49.087229
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 15:37:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

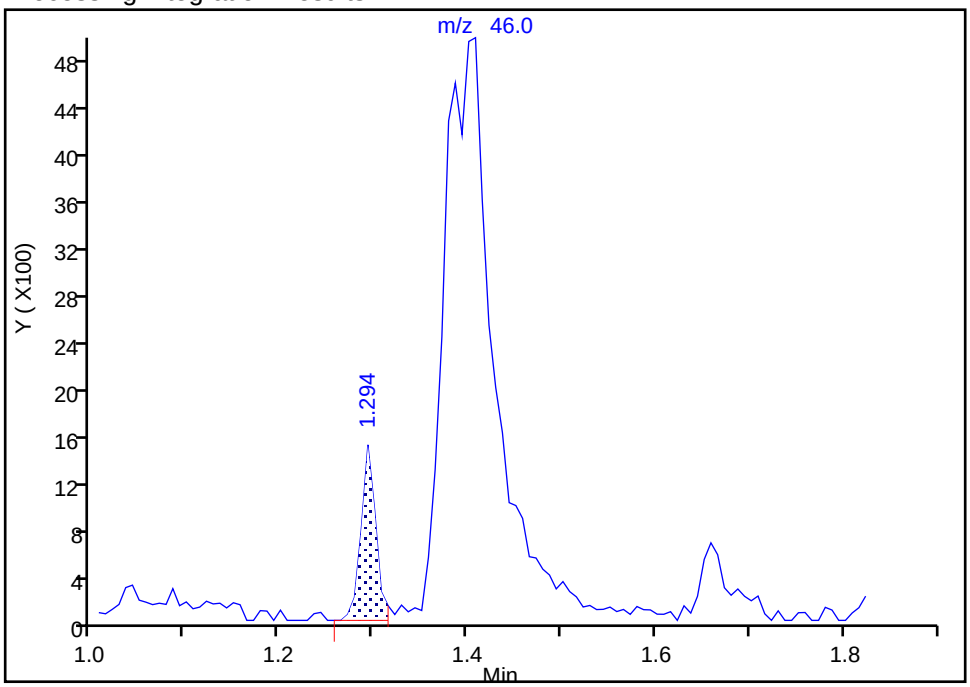
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79357.D
Injection Date: 04-Sep-2020 16:09:30 Instrument ID: CVOAMS13
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

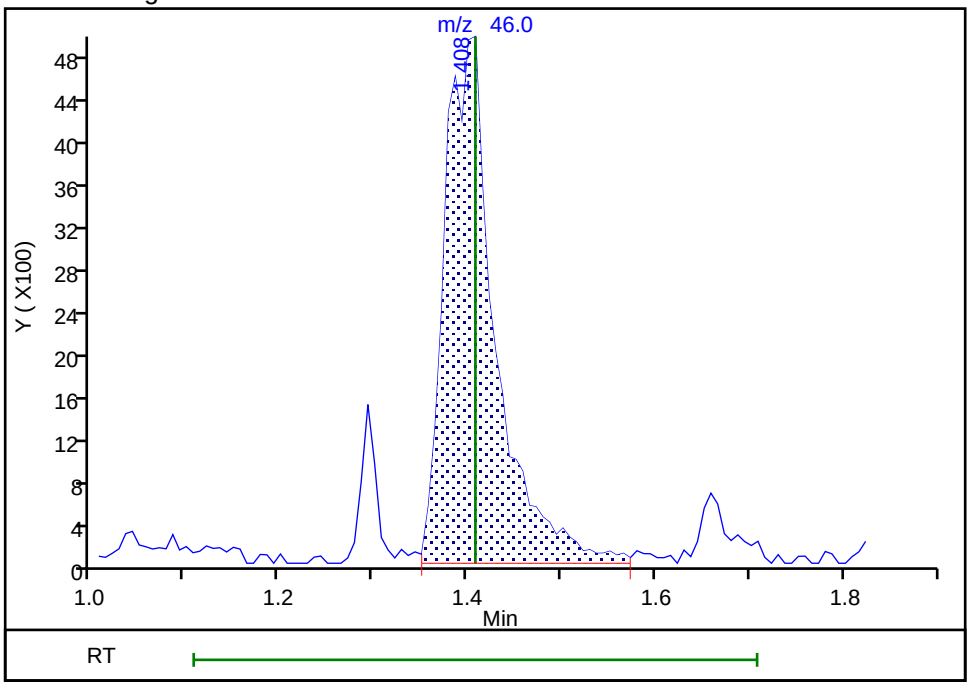
Processing Integration Results

RT: 1.29
Area: 1638
Amount: 264.0425
Amount Units: ug/l



Manual Integration Results

RT: 1.41
Area: 18644
Amount: 1899.6662
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:12:09
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

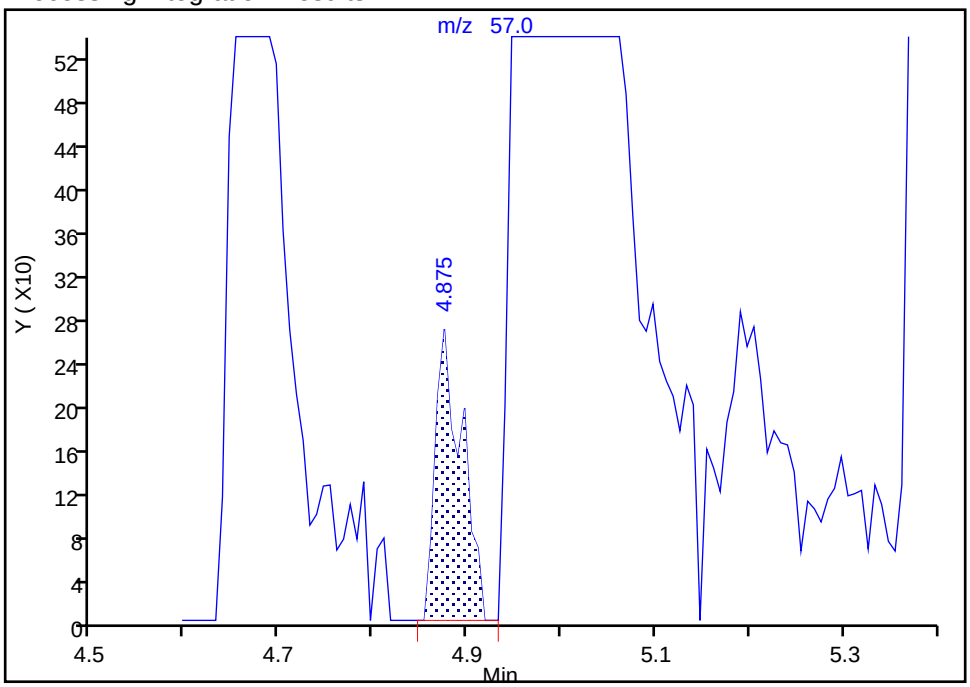
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79357.D
Injection Date: 04-Sep-2020 16:09:30 Instrument ID: CVOAMS13
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

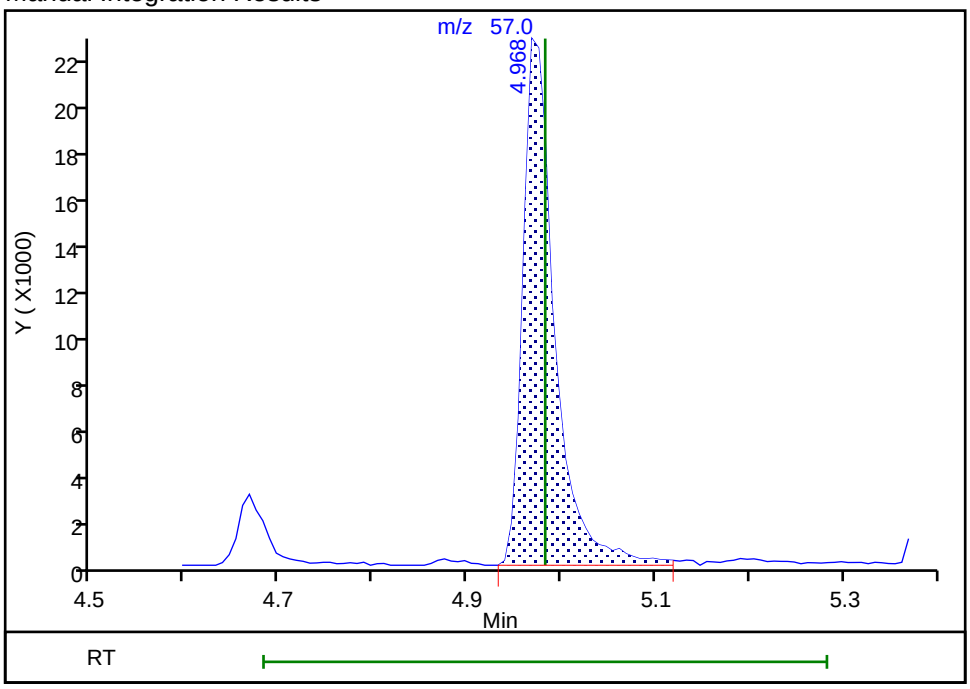
Processing Integration Results

RT: 4.88
Area: 526
Amount: 13.690616
Amount Units: ug/l



Manual Integration Results

RT: 4.97
Area: 52334
Amount: 920.3729
Amount Units: ug/l



Reviewer: starzecm, 04-Sep-2020 15:37:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

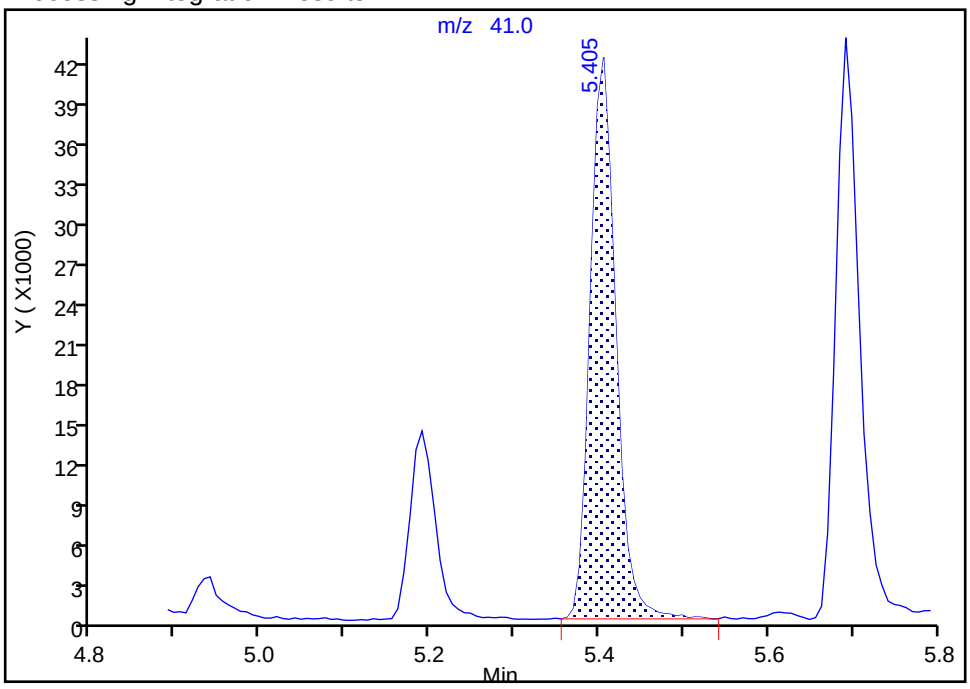
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79357.D
Injection Date: 04-Sep-2020 16:09:30 Instrument ID: CVOAMS13
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

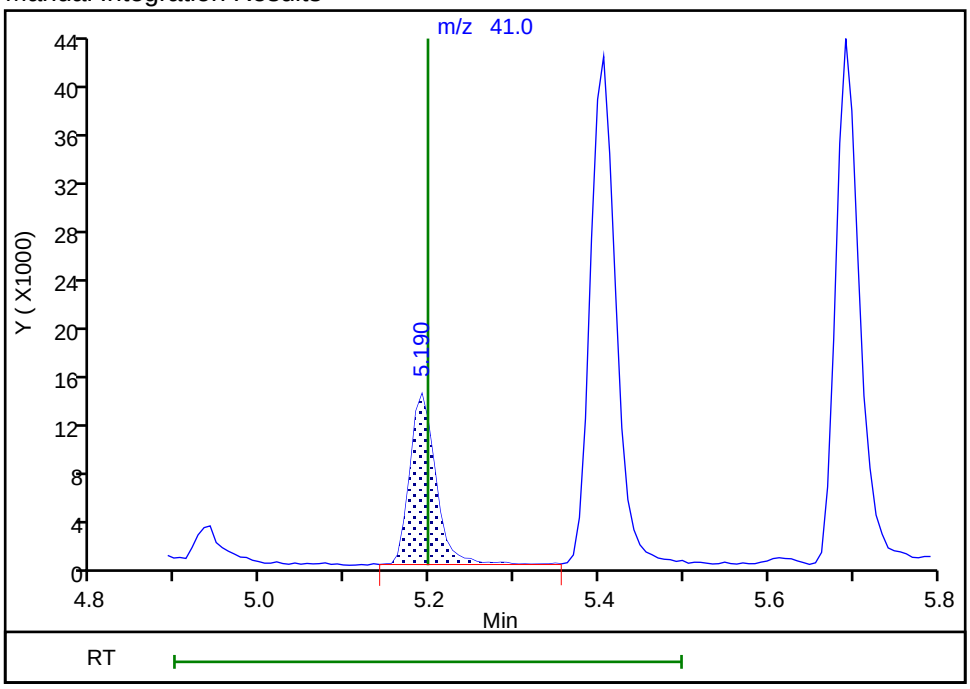
Processing Integration Results

RT: 5.41
Area: 88418
Amount: 96.765381
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 30161
Amount: 99.048205
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:08:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 04-Sep-2020 16:33:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0116303-008
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:39:08 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: boykink Date: 05-Sep-2020 00:16:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.728	0.721	0.007	68	55399	200.0	210.9	a
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	87	213205	200.0	228.1	
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	99	842683	200.0	209.9	
4 1,1-Difluoroethane	65	0.807	0.807	0.000	93	346160	200.0	181.9	
5 Chlorodifluoromethane	67	0.821	0.814	0.007	97	104936	200.0	190.8	a
6 Chloromethane	50	0.892	0.892	0.000	97	1115644	200.0	199.1	
8 Butadiene	54	0.892	0.892	0.000	94	773489	200.0	207.3	
7 Vinyl chloride	62	0.892	0.892	0.000	86	816164	200.0	198.8	
9 Bromomethane	94	1.036	1.036	0.000	99	381620	200.0	233.0	
10 Chloroethane	64	1.093	1.093	0.000	99	437022	200.0	200.3	
11 Pentane	72	1.150	1.150	0.000	96	213875	400.0	425.3	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	98	791377	200.0	211.2	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	99	988703	200.0	196.2	
14 2-Methyl-1,3-butadiene	67	1.286	1.286	0.000	96	896070	200.0	207.8	
15 Ethyl ether	59	1.294	1.294	0.000	95	408174	200.0	202.9	
17 1,1-Dichloroethene	96	1.394	1.387	0.007	97	550740	200.0	205.5	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	83	778229	200.0	198.9	
16 Ethanol	46	1.408	1.408	0.000	80	72547	8000.0	7484.5	a
19 Carbon disulfide	76	1.408	1.408	0.000	99	2105421	200.0	200.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	56	554137	200.0	211.3	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.415	1.415	0.000	92	822579	200.0	202.7	
22 Iodomethane	142	1.466	1.466	0.000	96	876527	200.0	204.9	
23 Cyclopentene	67	1.537	1.537	0.000	96	1489341	200.0	200.6	
24 Acrolein	56	1.566	1.559	0.007	93	51820	200.0	228.3	
25 3-Chloro-1-propene	76	1.630	1.630	0.000	94	356679	200.0	208.2	
26 Isopropyl alcohol	45	1.659	1.659	0.000	98	179401	2000.0	1902.5	
27 Methylene Chloride	84	1.695	1.695	0.000	91	631304	200.0	195.4	
28 Acetone	43	1.716	1.716	0.000	88	475188	1000.0	1016.0	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	615832	200.0	200.9	
30 Methyl acetate	43	1.781	1.781	0.000	99	427833	400.0	375.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	-0.001	90	163677	200.0	221.3	
32 Methyl tert-butyl ether	73	1.831	1.838	-0.007	87	1267437	200.0	202.1	
* 33 TBA-d9 (IS)	65	1.859	1.860	-0.001	99	116827	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.902	1.902	0.000	100	257906	2000.0	2000.8	
35 Acetonitrile	41	1.981	1.981	0.000	99	448269	2000.0	1919.0	
36 Isopropyl ether	45	2.053	2.053	0.000	97	2009218	200.0	204.7	
37 2-Chloro-1,3-butadiene	88	2.103	2.110	-0.007	90	579320	200.0	206.2	
38 1,1-Dichloroethane	63	2.117	2.117	0.000	100	1136397	200.0	199.7	
39 Acrylonitrile	53	2.160	2.153	0.007	94	1488785	2000.0	2019.1	
40 Tert-butyl ethyl ether	59	2.275	2.275	0.000	89	1673940	200.0	206.9	
41 Vinyl acetate	43	2.282	2.282	0.000	100	1826519	400.0	417.2	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	98	678589	200.0	200.1	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	775196	200.0	201.2	
44 Cyclohexane	56	2.583	2.583	0.000	92	1199483	200.0	210.5	
45 Chlorobromomethane	128	2.590	2.590	0.000	91	302079	200.0	203.8	
46 Chloroform	83	2.647	2.647	0.000	99	1022953	200.0	200.5	
47 Carbon tetrachloride	117	2.733	2.733	0.000	98	642971	200.0	213.8	
48 Ethyl acetate	70	2.748	2.748	0.000	99	87559	400.0	422.1	
49 Methyl acrylate	55	2.748	2.748	0.000	85	344589	200.0	214.4	
50 Tetrahydrofuran	42	2.755	2.755	0.000	96	291683	400.0	403.1	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	99	844830	200.0	206.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	97	128526	50.0	50.1	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	98	160047	250.0	250.0	
55 1,1-Dichloropropene	75	2.869	2.869	0.000	97	876224	200.0	200.8	
54 2-Butanone (MEK)	72	2.869	2.869	0.000	100	242797	1000.0	1038.2	
56 Isooctane	57	2.955	2.955	0.000	99	1958645	200.0	217.8	
57 n-Heptane	57	3.049	3.049	0.000	93	472746	200.0	214.1	
58 Benzene	78	3.056	3.056	0.000	96	2668664	200.0	200.1	
59 Propionitrile	54	3.084	3.077	0.007	96	525916	2000.0	2121.5	
60 Methacrylonitrile	67	3.092	3.092	0.000	92	1667489	2000.0	2039.2	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	121939	50.0	47.4	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	99	1415698	200.0	210.3	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	645223	200.0	193.9	
64 Isobutyl alcohol	43	3.292	3.292	0.000	95	332754	5000.0	5327.0	
65 t-Amyl alcohol	59	3.357	3.357	0.000	98	218748	2000.0	2157.7	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	595538	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	761069	200.0	201.4	
68 Methylcyclohexane	83	3.514	3.507	0.007	97	1142664	200.0	217.4	
69 Trichloroethene	130	3.536	3.536	0.000	98	669215	200.0	208.2	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	93	1434376	200.0	216.2	
71 Dibromomethane	93	3.887	3.894	-0.007	97	292356	200.0	203.9	
72 n-Butanol	56	3.908	3.915	-0.007	88	207653	5000.0	5052.2	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	664337	200.0	206.4	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	736764	200.0	208.6	
74 Ethyl acrylate	55	4.059	4.066	-0.007	98	499304	200.0	211.1	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	73	16172	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.259	-0.007	93	213231	400.0	444.9	
78 1,4-Dioxane	88	4.259	4.273	-0.014	96	72363	4000.0	3879.9	
79 n-Propyl acetate	43	4.410	4.417	-0.007	99	536909	200.0	221.8	
80 2-Chloroethyl vinyl ether	63	4.667	4.675	-0.008	97	146693	200.5	240.8	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	953812	200.0	218.3	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	551075	50.0	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	4.940	4.940	0.000	93	2721314	200.0	200.8	
84 Epichlorohydrin	57	4.968	4.983	-0.015	99	287832	4000.0	4035.2	a
85 2-Nitropropane	41	5.190	5.197	-0.007	96	134976	400.0	422.3	a
86 Tetrachloroethene	166	5.355	5.362	-0.007	98	651928	200.0	204.2	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.405	0.000	95	1775270	1000.0	1072.2	
88 trans-1,3-Dichloropropene	75	5.434	5.441	-0.007	95	776364	200.0	223.6	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	382089	200.0	206.7	
90 Ethyl methacrylate	69	5.692	5.699	-0.007	90	565187	200.0	223.5	
91 Chlorodibromomethane	129	5.799	5.799	0.000	98	501890	200.0	210.5	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	95	779411	200.0	202.6	
93 Ethylene Dibromide	107	6.036	6.050	-0.014	98	429394	200.0	216.2	
94 n-Butyl acetate	43	6.394	6.401	-0.007	99	605244	200.0	214.9	
95 2-Hexanone	43	6.451	6.458	-0.007	95	1247693	1000.0	1122.9	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	87	427242	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	1705190	200.0	200.9	
98 Ethylbenzene	106	6.831	6.831	0.000	98	955498	200.0	200.8	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	96	555386	200.0	211.3	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	1187799	200.0	212.8	
101 o-Xylene	106	7.626	7.626	0.000	95	1140173	200.0	201.9	
102 Bromoform	173	7.690	7.690	0.000	96	285754	200.0	212.1	
103 Styrene	104	7.712	7.719	-0.007	97	1891908	200.0	209.4	
104 n-Butyl acrylate	73	8.048	8.056	-0.008	97	343856	200.0	211.2	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	2943384	200.0	201.0	
106 Amyl acetate (mixed isomers)	43	8.464	8.471	-0.007	90	774550	200.0	210.7	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	92	170465	50.0	49.3	
108 Bromobenzene	156	8.586	8.586	0.000	98	709661	200.0	206.9	
109 N-Propylbenzene	91	8.743	8.743	0.000	99	3601702	200.0	209.9	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	97	492837	200.0	207.1	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	2380971	200.0	201.3	
112 4-Ethyltoluene	105	8.929	8.929	0.000	98	2979644	200.0	208.9	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	99	134903	200.0	214.4	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	2494661	200.0	209.6	
115 trans-1,4-Dichloro-2-butene	53	9.151	9.166	-0.015	90	111606	200.0	245.6	
116 4-Chlorotoluene	91	9.173	9.173	0.000	98	2189374	200.0	210.7	
117 tert-Butylbenzene	119	9.553	9.545	0.008	95	2119520	200.0	205.9	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	2562120	200.0	208.7	
119 Butyl Methacrylate	87	9.696	9.696	0.000	93	778176	200.0	210.6	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	3204917	200.0	205.1	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	97	1421890	200.0	209.8	
122 4-Isopropyltoluene	119	10.126	10.118	0.008	98	2753070	200.0	208.8	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	232080	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.255	10.247	0.008	96	1415792	200.0	198.5	
125 1,2,3-Trimethylbenzene	105	10.362	10.355	0.007	98	2519702	200.0	202.6	
126 2,3-Dihydroindene	117	10.534	10.527	0.007	95	2434293	200.0	201.7	
127 Benzyl chloride	126	10.706	10.713	-0.007	99	182937	200.0	214.6	
128 p-Diethylbenzene	119	10.734	10.727	0.007	94	1400739	200.0	210.9	
129 n-Butylbenzene	91	10.813	10.813	0.000	99	2516592	200.0	209.4	
130 1,2-Dichlorobenzene	146	10.914	10.921	-0.007	97	1296949	200.0	209.1	
131 1,2,4,5-Tetramethylbenzene	119	11.931	11.924	0.007	98	2479879	200.0	214.4	
132 1,2-Dibromo-3-Chloropropane	157	12.067	12.074	-0.007	95	84236	200.0	212.7	
133 1,3,5-Trichlorobenzene	180	12.117	12.124	-0.007	97	1014884	200.0	206.3	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	845782	200.0	204.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.840	12.840	0.000	97	366310	200.0	200.9	
136 Naphthalene	128	13.120	13.127	-0.007	100	1438478	200.0	188.9	
137 1,2,3-Trichlorobenzene	180	13.292	13.299	-0.007	96	672673	200.0	199.1	
S 138 1,2-Dichloroethene, Total	100				0		400.0	400.9	
S 139 1,3-Dichloropropene, Total	100				0		400.0	441.8	
S 140 Xylenes, Total	100				0		400.0	414.8	
S 142 Total BTEX	1				0		1000.0	1016.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	20.00	Units: uL	
GAS Hi_00370	Amount Added:	20.00	Units: uL	
8FreonHi_00023	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00102	Amount Added:	20.00	Units: uL	
Ethanol mix_00043	Amount Added:	20.00	Units: uL	
MIX I Hi_00129	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 10:39:10 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D

Injection Date: 04-Sep-2020 16:33:30 Instrument ID: CVOAMS13 Operator ID:

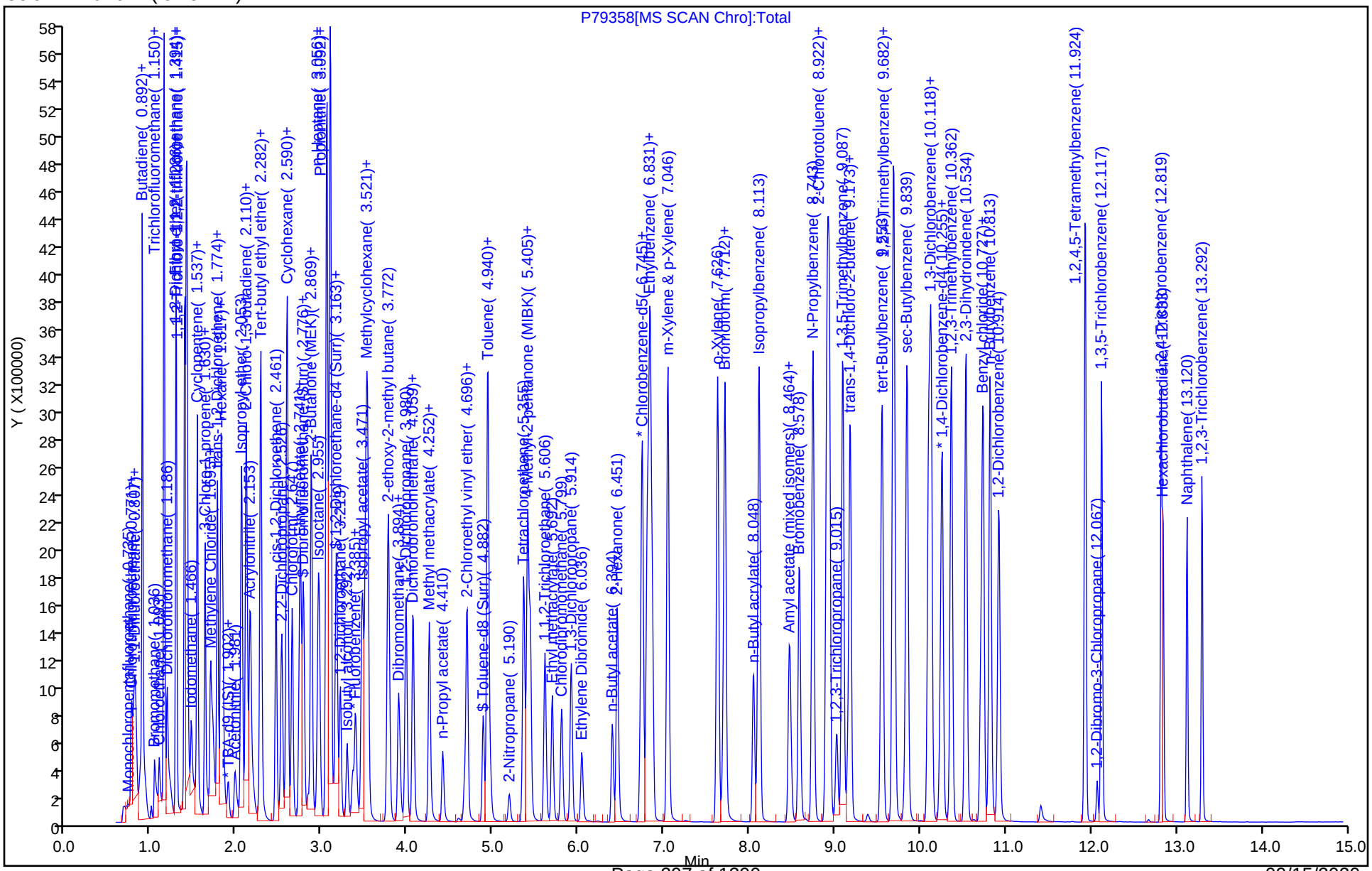
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

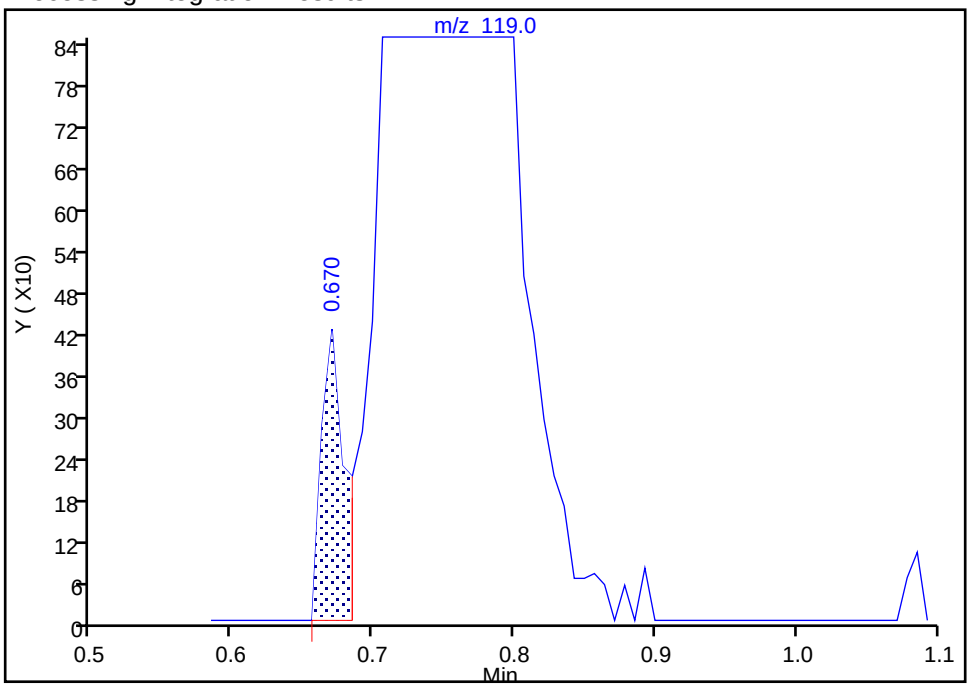
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D
Injection Date: 04-Sep-2020 16:33:30 Instrument ID: CVOAMS13
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Monochloropentafluoroethane, CAS: 76-15-3

Signal: 1

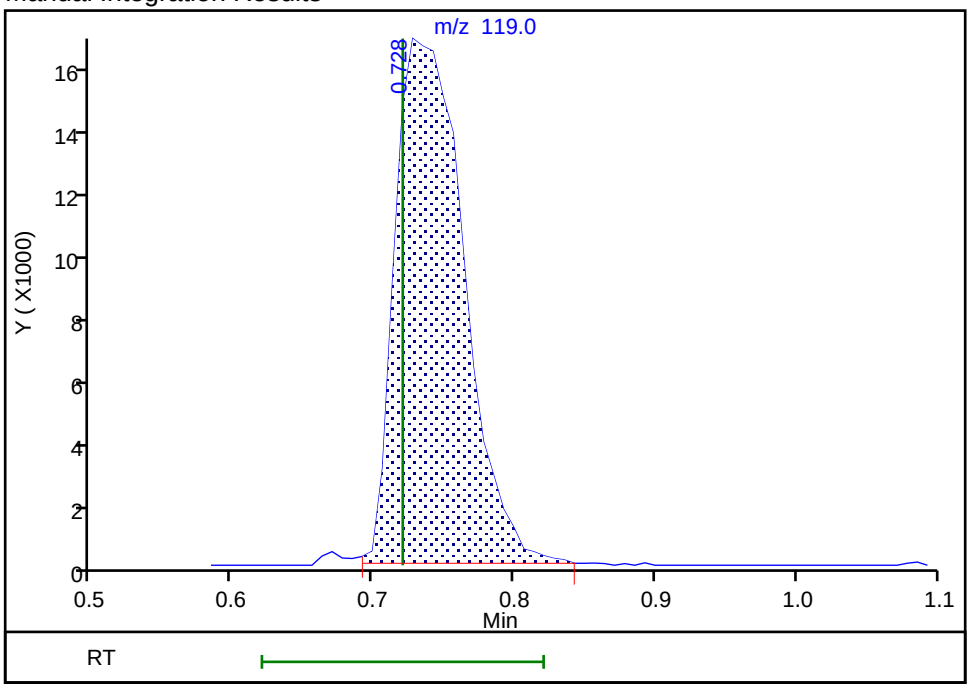
Processing Integration Results

RT: 0.67
Area: 490
Amount: 1.932448
Amount Units: ug/l



Manual Integration Results

RT: 0.73
Area: 55399
Amount: 210.9307
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:13:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

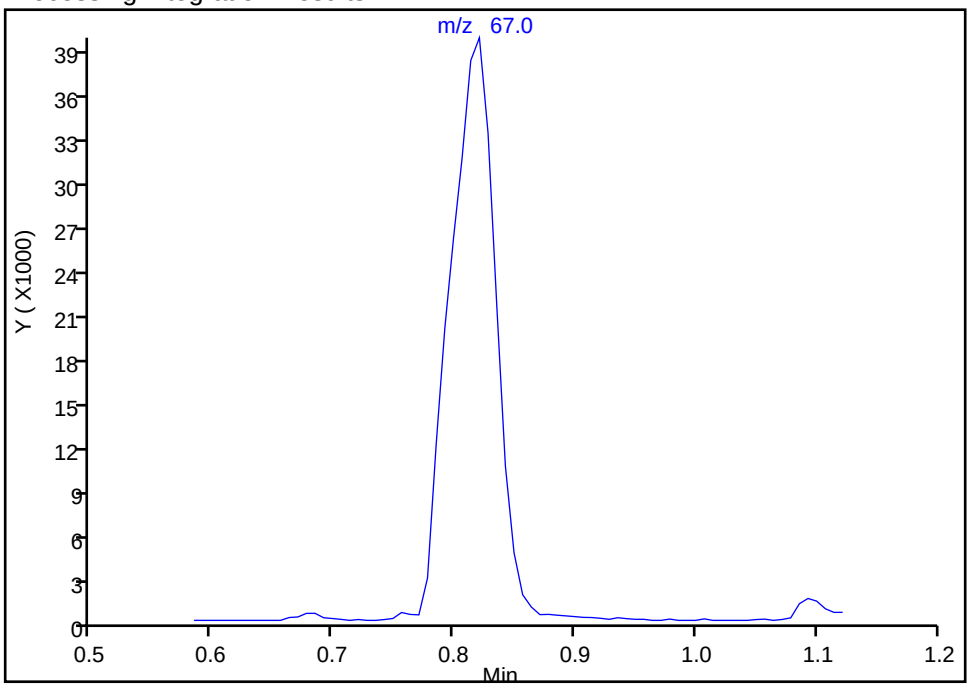
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D
Injection Date: 04-Sep-2020 16:33:30 Instrument ID: CVOAMS13
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

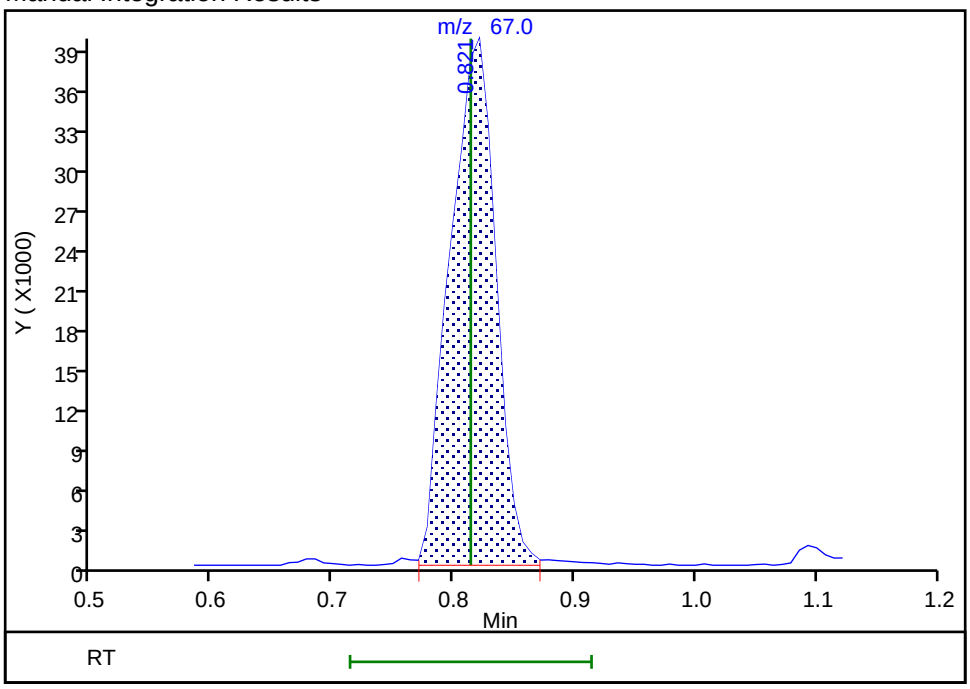
Not Detected
Expected RT: 0.81

Processing Integration Results



Manual Integration Results

RT: 0.82
Area: 104936
Amount: 190.8036
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:13:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

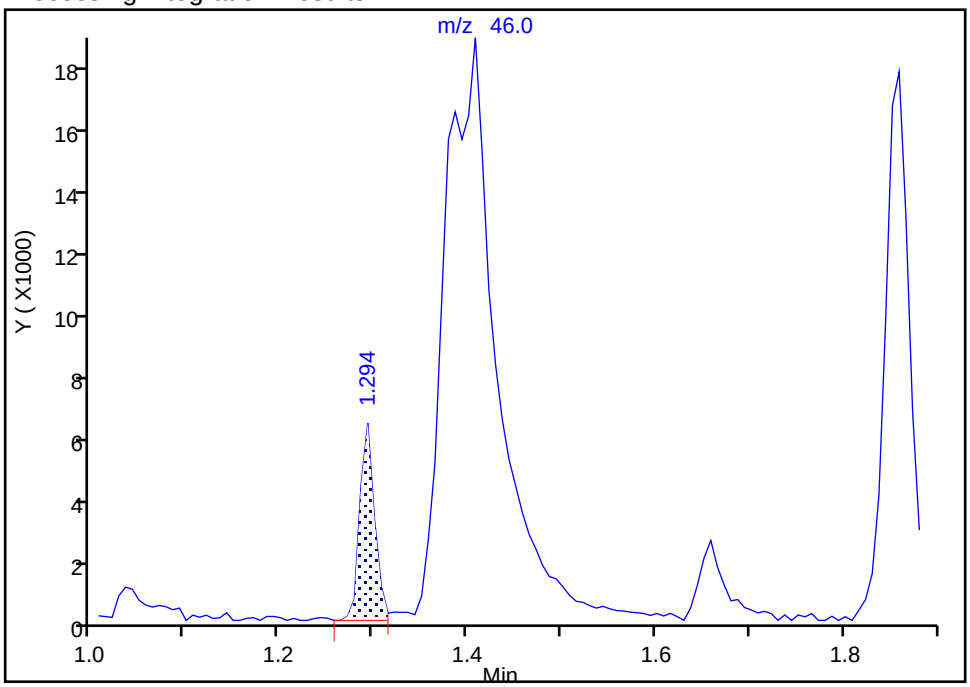
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D
Injection Date: 04-Sep-2020 16:33:30 Instrument ID: CVOAMS13
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

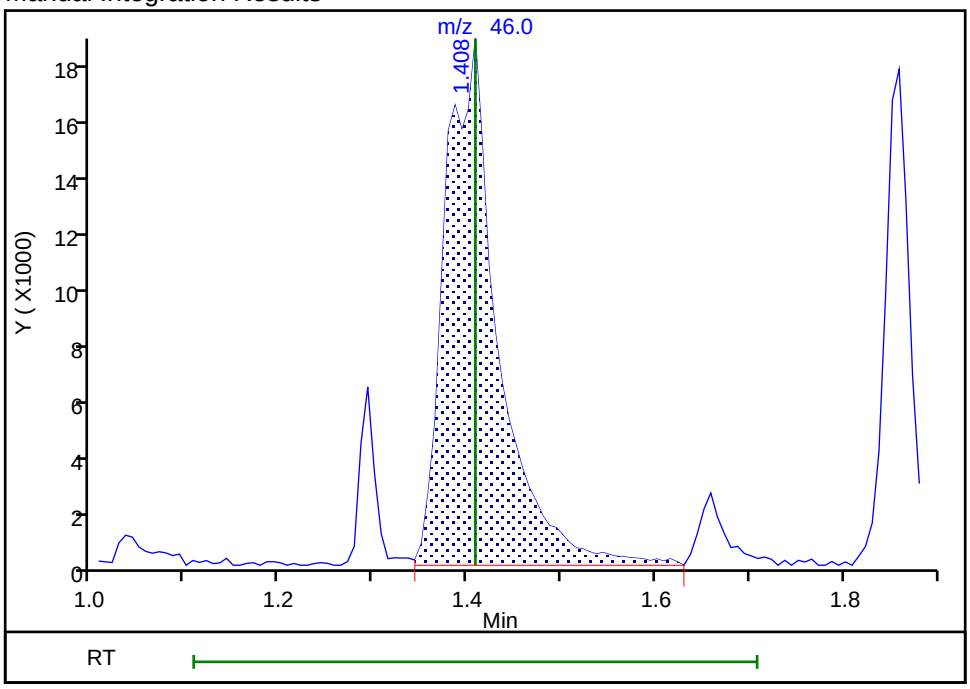
Processing Integration Results

RT: 1.29
Area: 6843
Amount: 934.0051
Amount Units: ug/l



Manual Integration Results

RT: 1.41
Area: 72547
Amount: 7484.4943
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:13:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

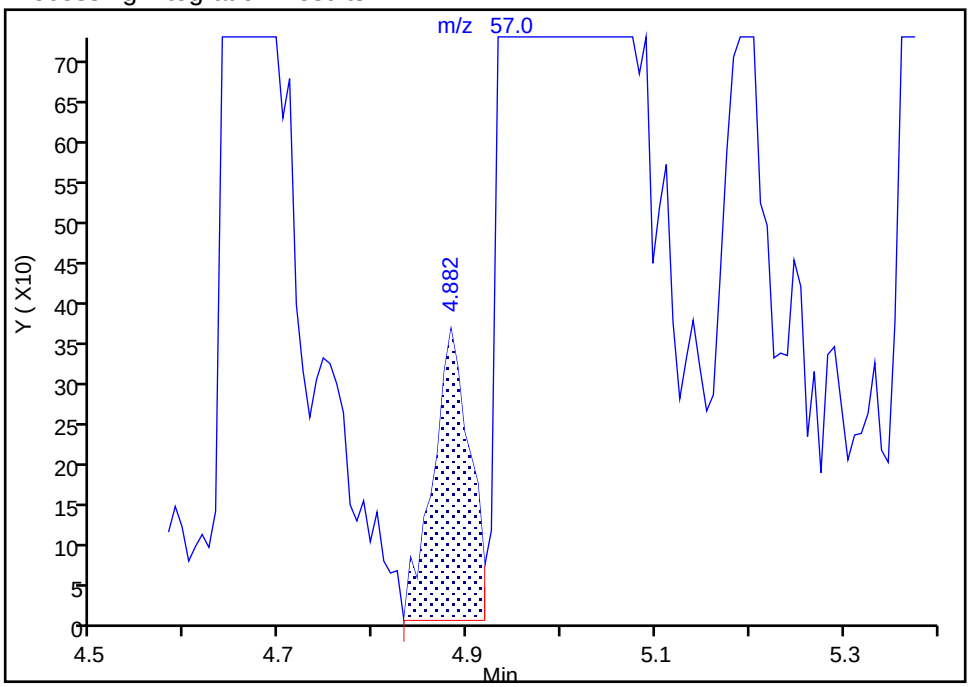
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D
Injection Date: 04-Sep-2020 16:33:30 Instrument ID: CVOAMS13
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

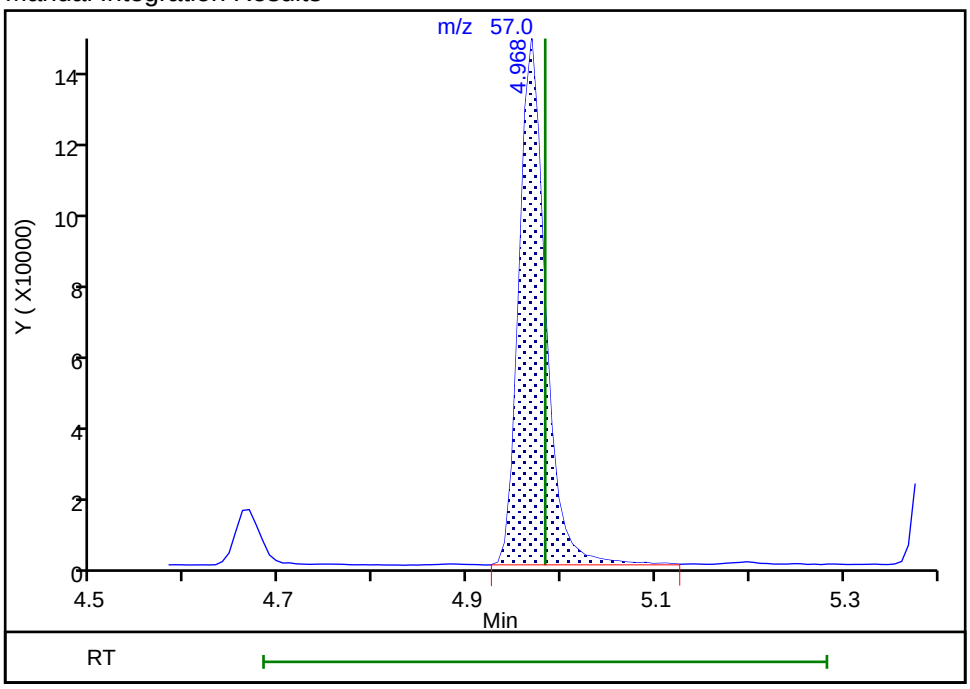
Processing Integration Results

RT: 4.88
Area: 983
Amount: 26.899773
Amount Units: ug/l



Manual Integration Results

RT: 4.97
Area: 287832
Amount: 4035.1740
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:16:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

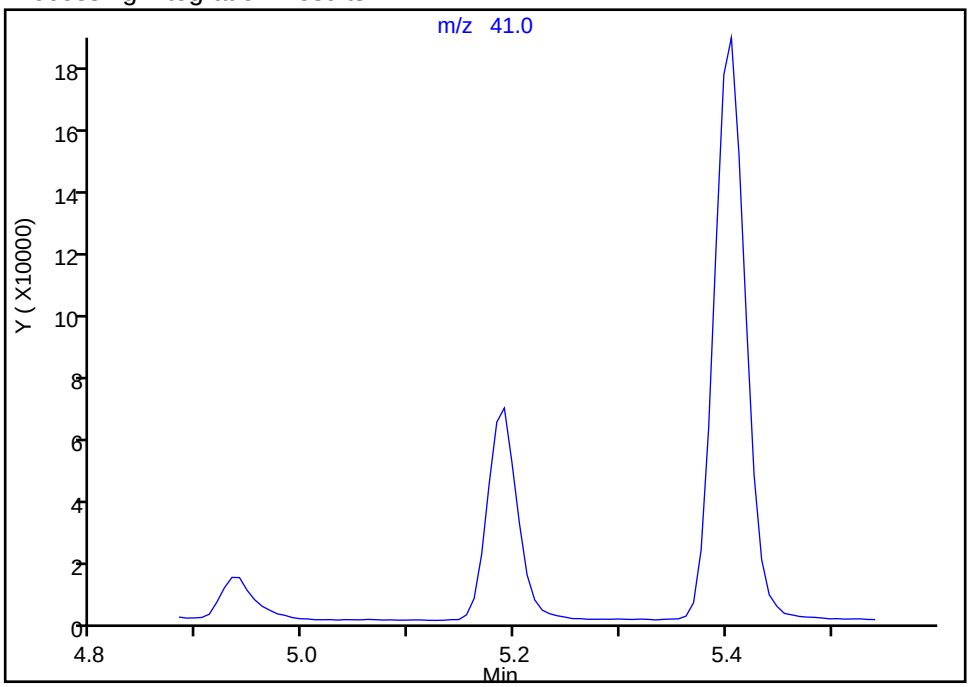
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79358.D
Injection Date: 04-Sep-2020 16:33:30 Instrument ID: CVOAMS13
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

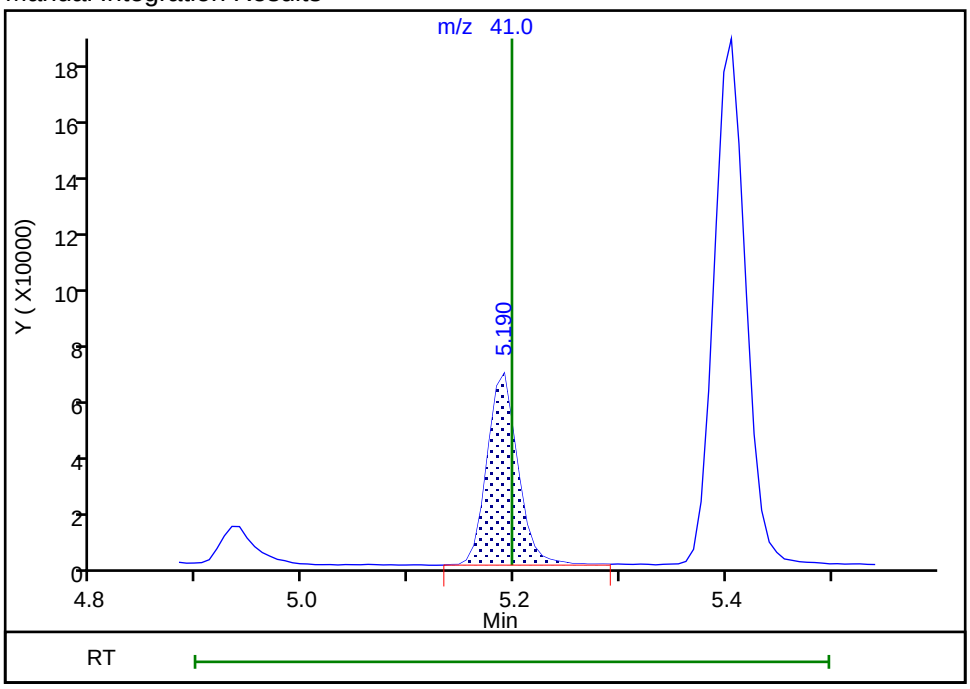
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 134976
Amount: 422.3500
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:10:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Sep-2020 16:58:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0116303-009
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub62

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:39:27 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: baronm Date: 05-Sep-2020 12:41:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.735	0.721	0.014	96	153563	500.0	561.9	a
2 Chlorotrifluoroethene	116	0.757	0.756	0.001	88	597178	500.0	613.9	
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	99	2138983	500.0	512.0	
4 1,1-Difluoroethane	65	0.807	0.807	0.000	95	915944	500.0	462.6	
5 Chlorodifluoromethane	67	0.821	0.814	0.007	97	286055	500.0	499.9	a
6 Chloromethane	50	0.893	0.892	0.001	99	2873454	500.0	492.7	
8 Butadiene	54	0.900	0.892	0.008	95	2024494	500.0	521.5	
7 Vinyl chloride	62	0.893	0.892	0.001	98	2102724	500.0	492.1	
9 Bromomethane	94	1.036	1.036	0.000	99	1058616	500.0	575.8	
10 Chloroethane	64	1.093	1.093	0.000	99	965466	500.0	425.3	
11 Pentane	72	1.143	1.150	-0.007	95	510382	1000.0	963.5	
12 Trichlorofluoromethane	101	1.158	1.150	0.008	97	2018986	500.0	517.7	
13 Dichlorofluoromethane	67	1.179	1.186	-0.007	98	2402602	500.0	458.2	
14 2-Methyl-1,3-butadiene	67	1.287	1.286	0.001	97	2379512	500.0	530.2	
15 Ethyl ether	59	1.294	1.294	0.000	94	1057648	500.0	505.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.394	1.387	0.007	89	2055897	500.0	505.1	
17 1,1-Dichloroethene	96	1.394	1.387	0.007	97	1418804	500.0	508.7	
16 Ethanol	46	1.408	1.408	0.000	35	192362	20000	18839	a
19 Carbon disulfide	76	1.416	1.408	0.008	100	5398702	500.0	494.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	91	1408561	500.0	516.2	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.423	1.415	0.008	94	2199434	500.0	520.8	a
22 Iodomethane	142	1.466	1.466	0.000	96	2250918	500.0	499.3	
23 Cyclopentene	67	1.537	1.537	0.000	97	3919618	500.0	507.3	
24 Acrolein	56	1.566	1.559	0.007	92	110641	400.0	462.7	
25 3-Chloro-1-propene	76	1.638	1.630	0.008	94	929413	500.0	521.5	
26 Isopropyl alcohol	45	1.666	1.659	0.007	98	453215	5000.0	4562.6	
27 Methylene Chloride	84	1.695	1.695	0.000	91	1621460	500.0	482.3	
28 Acetone	43	1.724	1.716	0.008	87	1071045	2500.0	2496.3	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	1586745	500.0	497.3	
30 Methyl acetate	43	1.788	1.781	0.007	97	1110827	1000.0	926.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	0.000	89	417628	500.0	542.8	
32 Methyl tert-butyl ether	73	1.838	1.838	0.000	89	3242233	500.0	497.0	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	99	123066	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.903	1.902	0.001	100	688184	5000.0	4999.9	
35 Acetonitrile	41	1.981	1.981	0.000	99	1232698	5000.0	5009.4	
36 Isopropyl ether	45	2.060	2.053	0.007	97	5266152	500.0	515.7	
37 2-Chloro-1,3-butadiene	88	2.110	2.110	0.000	92	1524691	500.0	521.6	
38 1,1-Dichloroethane	63	2.125	2.117	0.008	100	2930827	500.0	495.0	
39 Acrylonitrile	53	2.161	2.153	0.008	94	3986357	5000.0	5195.6	
40 Tert-butyl ethyl ether	59	2.282	2.275	0.007	89	4379554	500.0	520.3	
41 Vinyl acetate	43	2.282	2.282	0.000	100	4707045	1000.0	1033.3	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	98	1754817	500.0	497.2	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	1983171	500.0	494.7	
44 Cyclohexane	56	2.590	2.583	0.007	92	3017859	500.0	509.0	
45 Chlorobromomethane	128	2.597	2.590	0.007	92	783070	500.0	507.7	
46 Chloroform	83	2.655	2.647	0.008	99	2613155	500.0	492.3	
47 Carbon tetrachloride	117	2.734	2.733	0.001	99	1753099	500.0	560.2	
48 Ethyl acetate	70	2.748	2.748	0.000	99	232661	1000.0	999.2	
49 Methyl acrylate	55	2.748	2.748	0.000	61	918247	500.0	549.2	
50 Tetrahydrofuran	42	2.755	2.755	0.000	98	769588	1000.0	947.4	
$ 51 Dibromofluoromethane (Surr)	113	2.777	2.776	0.001	94	132990	50.0	49.8	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	99	2148975	500.0	503.7	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	96	179665	250.0	250.0	a
55 1,1-Dichloropropene	75	2.877	2.869	0.008	97	2209037	500.0	499.9	
54 2-Butanone (MEK)	72	2.870	2.869	0.001	100	621699	2500.0	2368.2	
56 Isooctane	57	2.963	2.955	0.008	99	5065144	500.0	541.3	
57 n-Heptane	57	3.056	3.049	0.007	94	1188377	500.0	517.3	
58 Benzene	78	3.056	3.056	0.000	96	6741611	500.0	480.3	
59 Propionitrile	54	3.099	3.077	0.022	88	1384313	5000.0	5301.2	
60 Methacrylonitrile	67	3.106	3.092	0.014	92	4364305	5000.0	5129.1	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.163	3.156	0.007	0	133687	50.0	49.9	
62 Tert-amyl methyl ether	73	3.171	3.163	0.008	99	3745941	500.0	534.8	
63 1,2-Dichloroethane	62	3.214	3.213	0.001	96	1650015	500.0	476.5	
64 Isobutyl alcohol	43	3.299	3.292	0.007	96	937256	12500	14244	
65 t-Amyl alcohol	59	3.364	3.357	0.007	99	602472	5000.0	5641.5	
* 66 Fluorobenzene	96	3.393	3.385	0.008	99	619689	50.0	50.0	
67 Isopropyl acetate	43	3.464	3.457	0.007	99	1983357	500.0	504.3	
68 Methylcyclohexane	83	3.514	3.507	0.007	96	2940010	500.0	537.6	
69 Trichloroethene	130	3.536	3.536	0.000	98	1733049	500.0	518.1	
70 2-ethoxy-2-methyl butane	59	3.779	3.772	0.007	93	3831768	500.0	555.0	
71 Dibromomethane	93	3.894	3.894	0.000	96	776124	500.0	520.3	
72 n-Butanol	56	3.915	3.915	0.000	88	594810	12500	12494	
73 1,2-Dichloropropane	63	3.987	3.980	0.007	92	1706920	500.0	509.6	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	1950550	500.0	530.8	
74 Ethyl acrylate	55	4.059	4.066	-0.007	98	1325732	500.0	489.0	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	83	16670	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.259	0.000	93	562331	1000.0	1127.6	
78 1,4-Dioxane	88	4.266	4.273	-0.007	96	196250	10000	10208	
79 n-Propyl acetate	43	4.410	4.417	-0.007	99	1407703	500.0	558.8	
80 2-Chloroethyl vinyl ether	63	4.668	4.675	-0.007	97	512328	501.2	808.2	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	2531452	500.0	550.5	
$ 82 Toluene-d8 (Surr)	98	4.890	4.882	0.008	99	568428	50.0	49.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	4.940	4.940	0.000	94	6985837	500.0	489.8	
84 Epichlorohydrin	57	4.968	4.983	-0.015	98	1076562	10000	9996.9	a
85 2-Nitropropane	41	5.191	5.197	-0.007	96	401764	1000.0	1208.2	a
86 Tetrachloroethene	166	5.362	5.362	0.000	98	1693883	500.0	504.2	
87 4-Methyl-2-pentanone (MIBK)	43	5.413	5.405	0.008	96	4551250	2500.0	2448.8	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	95	2115743	500.0	578.9	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	97	1004352	500.0	516.4	
90 Ethyl methacrylate	69	5.692	5.699	-0.007	90	1470388	500.0	558.8	
91 Chlorodibromomethane	129	5.807	5.799	0.008	98	1342232	500.0	534.9	
92 1,3-Dichloropropane	76	5.921	5.914	0.007	94	2063481	500.0	509.8	
93 Ethylene Dibromide	107	6.043	6.050	-0.007	98	1136144	500.0	543.7	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	1561177	500.0	486.3	
95 2-Hexanone	43	6.458	6.458	0.000	95	3200586	2500.0	2566.0	
* 96 Chlorobenzene-d5	117	6.731	6.723	0.008	87	449616	50.0	50.0	
97 Chlorobenzene	112	6.752	6.745	0.007	95	4409049	500.0	493.5	
98 Ethylbenzene	106	6.845	6.831	0.014	98	2523965	500.0	504.1	
99 1,1,1,2-Tetrachloroethane	131	6.867	6.859	0.008	97	1483682	500.0	536.5	
100 m-Xylene & p-Xylene	106	7.053	7.046	0.007	0	3047634	500.0	518.9	
101 o-Xylene	106	7.633	7.626	0.007	95	2899229	500.0	487.9	
102 Bromoform	173	7.698	7.690	0.008	96	779054	500.0	549.5	
103 Styrene	104	7.719	7.719	0.000	96	4841761	500.0	509.3	
104 n-Butyl acrylate	73	8.049	8.056	-0.007	98	906398	500.0	489.7	
105 Isopropylbenzene	105	8.120	8.113	0.007	96	7430702	500.0	482.2	
106 Amyl acetate (mixed isomers)	43	8.471	8.471	0.000	90	2050851	500.0	489.0	
$ 107 4-Bromofluorobenzene	174	8.486	8.478	0.008	91	175673	50.0	48.3	
108 Bromobenzene	156	8.586	8.586	0.000	98	1851197	500.0	522.2	
109 N-Propylbenzene	91	8.751	8.743	0.008	99	8986684	500.0	506.6	
110 1,1,2,2-Tetrachloroethane	83	8.901	8.894	0.007	99	1295322	500.0	526.8	
111 2-Chlorotoluene	91	8.915	8.908	0.007	97	6120662	500.0	500.7	
112 4-Ethyltoluene	105	8.944	8.929	0.015	98	7785180	500.0	528.2	
113 1,2,3-Trichloropropane	110	9.030	9.023	0.007	99	346260	500.0	532.4	
114 1,3,5-Trimethylbenzene	105	9.102	9.087	0.015	94	6331744	500.0	514.8	
115 trans-1,4-Dichloro-2-butene	53	9.152	9.166	-0.014	90	325652	500.0	693.4	
116 4-Chlorotoluene	91	9.187	9.173	0.014	97	5575558	500.0	519.1	
117 tert-Butylbenzene	119	9.560	9.545	0.015	95	5347740	500.0	502.8	
118 1,2,4-Trimethylbenzene	105	9.689	9.682	0.007	97	6534418	500.0	515.1	
119 Butyl Methacrylate	87	9.703	9.696	0.007	92	2127034	500.0	490.6	
120 sec-Butylbenzene	105	9.854	9.839	0.015	99	8040037	500.0	497.8	
121 1,3-Dichlorobenzene	146	10.104	10.097	0.007	98	3667475	500.0	523.7	
122 4-Isopropyltoluene	119	10.133	10.118	0.015	98	7005086	500.0	514.2	
* 123 1,4-Dichlorobenzene-d4	152	10.240	10.226	0.014	95	239855	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.262	10.247	0.015	96	3633198	500.0	492.8	
125 1,2,3-Trimethylbenzene	105	10.369	10.355	0.014	98	6559615	500.0	510.3	
126 2,3-Dihydroindene	117	10.541	10.527	0.014	95	6296307	500.0	504.8	
127 Benzyl chloride	126	10.706	10.713	-0.007	99	508966	500.0	486.6	
128 p-Diethylbenzene	119	10.742	10.727	0.015	94	3637762	500.0	529.9	
129 n-Butylbenzene	91	10.828	10.813	0.015	99	6293963	500.0	506.7	
130 1,2-Dichlorobenzene	146	10.928	10.921	0.007	97	3338000	500.0	520.8	
131 1,2,4,5-Tetramethylbenzene	119	11.931	11.924	0.007	98	6356940	500.0	531.7	
132 1,2-Dibromo-3-Chloropropane	157	12.067	12.074	-0.007	95	225792	500.0	551.6	
133 1,3,5-Trichlorobenzene	180	12.124	12.124	0.000	98	2669157	500.0	525.1	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	2234541	500.0	523.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.841	12.840	0.001	97	935397	500.0	496.4	
136 Naphthalene	128	13.120	13.127	-0.007	99	3788295	500.0	481.3	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	96	1772317	500.0	507.6	
S 138 1,2-Dichloroethene, Total	100				0		1000.0	994.6	
S 139 1,3-Dichloropropene, Total	100				0		1000.0	1129.4	
S 140 Xylenes, Total	100				0		1000.0	1006.9	
S 142 Total BTEX	1				0		2500.0	2481.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

Ethanol mix_00043	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00102	Amount Added:	50.00	Units: uL	
8FreonHi_00023	Amount Added:	50.00	Units: uL	
GAS Hi_00370	Amount Added:	50.00	Units: uL	
ACROLEIN W_00112	Amount Added:	40.00	Units: uL	
MIX I Hi_00129	Amount Added:	50.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 10:39:32 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13 Operator ID:

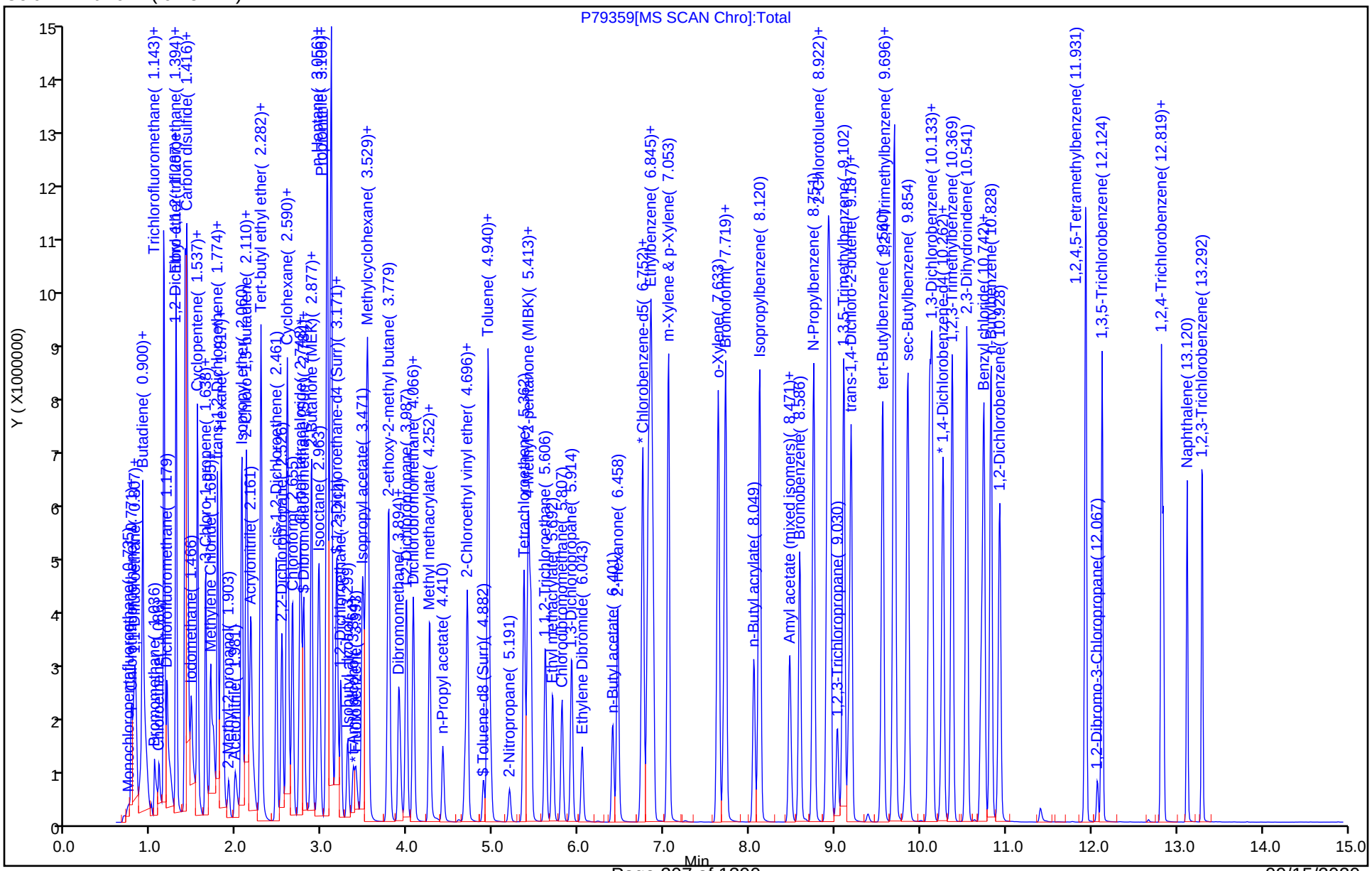
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

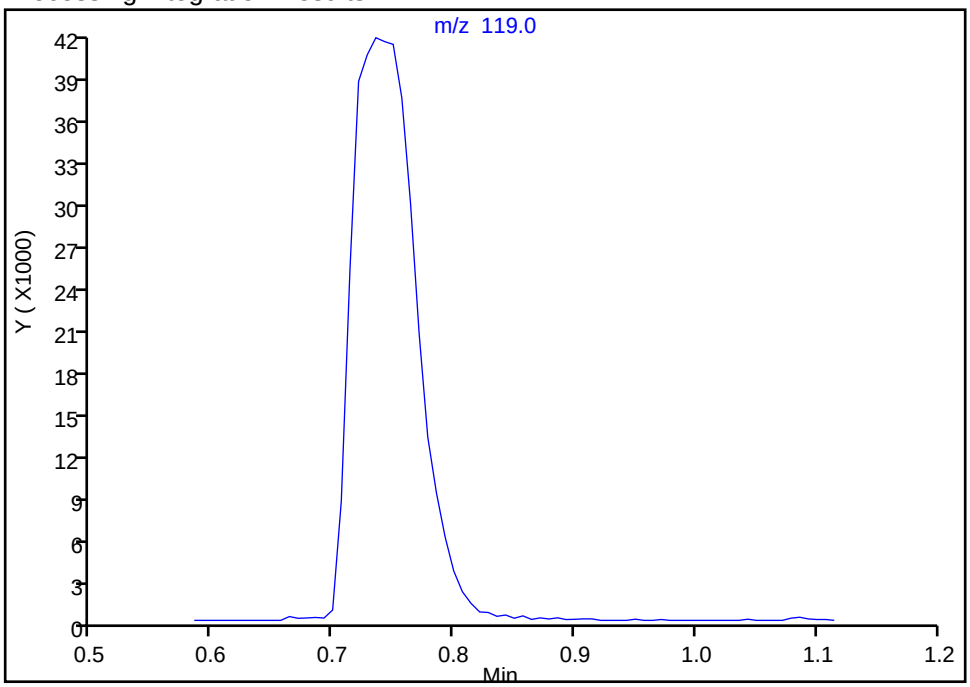
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Monochloropentafluoroethane, CAS: 76-15-3

Signal: 1

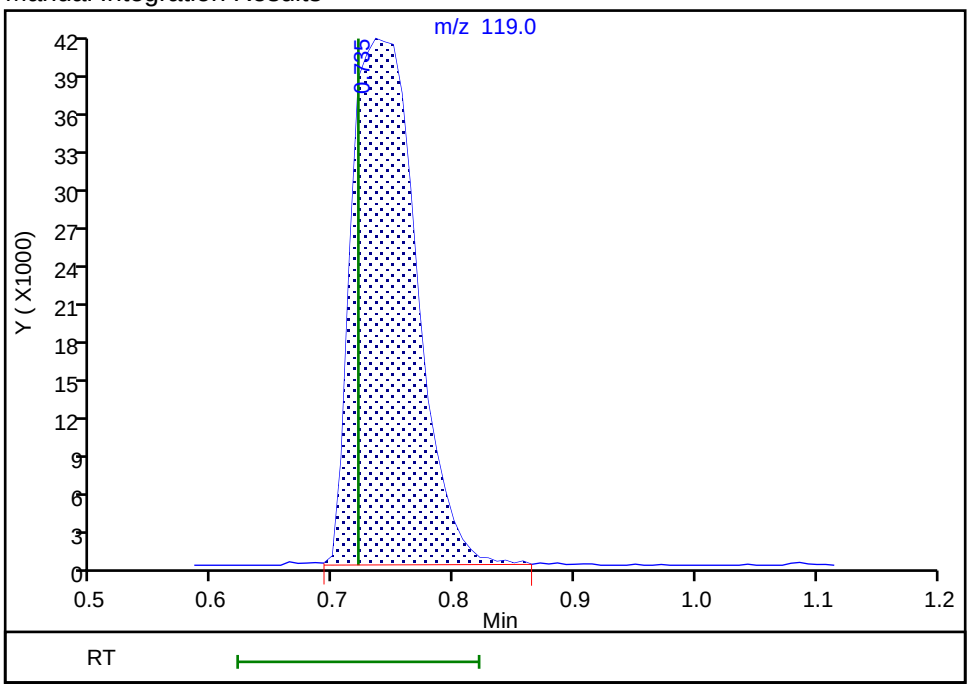
Not Detected
Expected RT: 0.72

Processing Integration Results



Manual Integration Results

RT: 0.74
Area: 153563
Amount: 561.9015
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:16:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

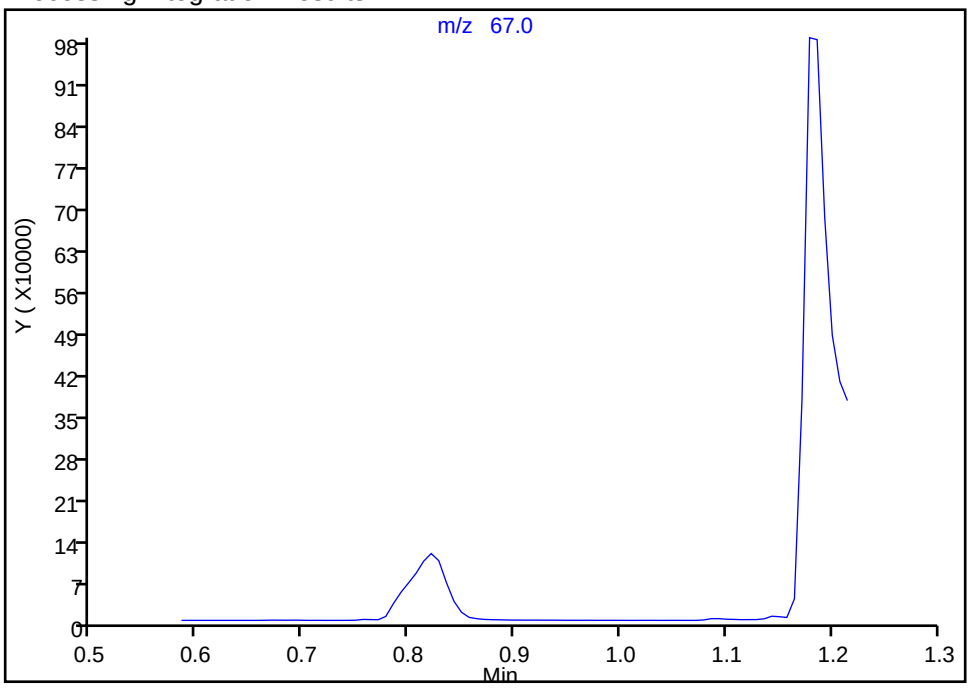
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

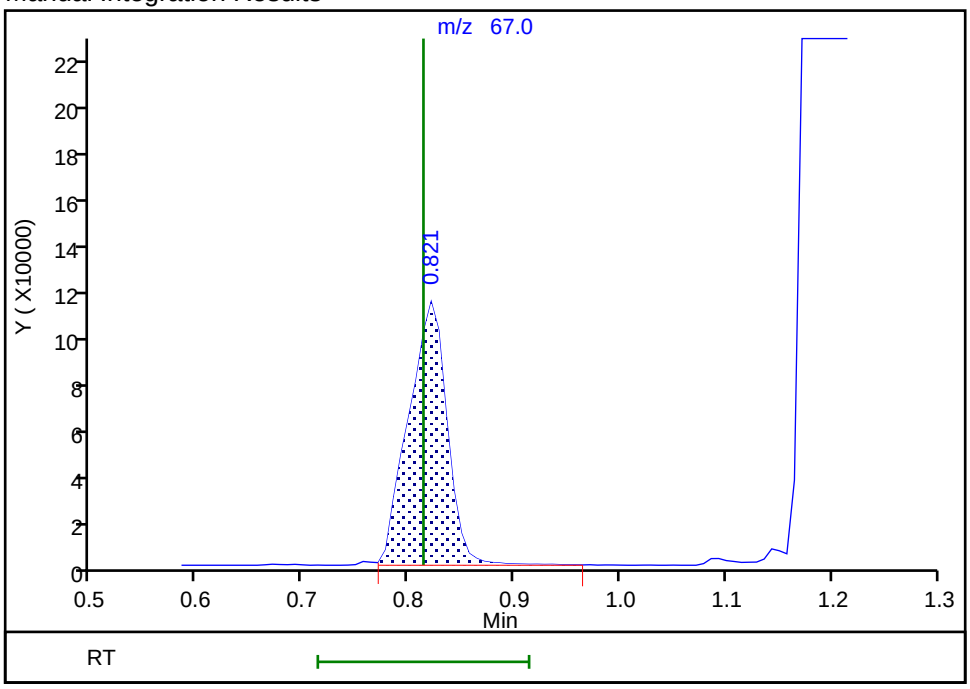
Not Detected
Expected RT: 0.81

Processing Integration Results



Manual Integration Results

RT: 0.82
Area: 286055
Amount: 499.8586
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:17:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

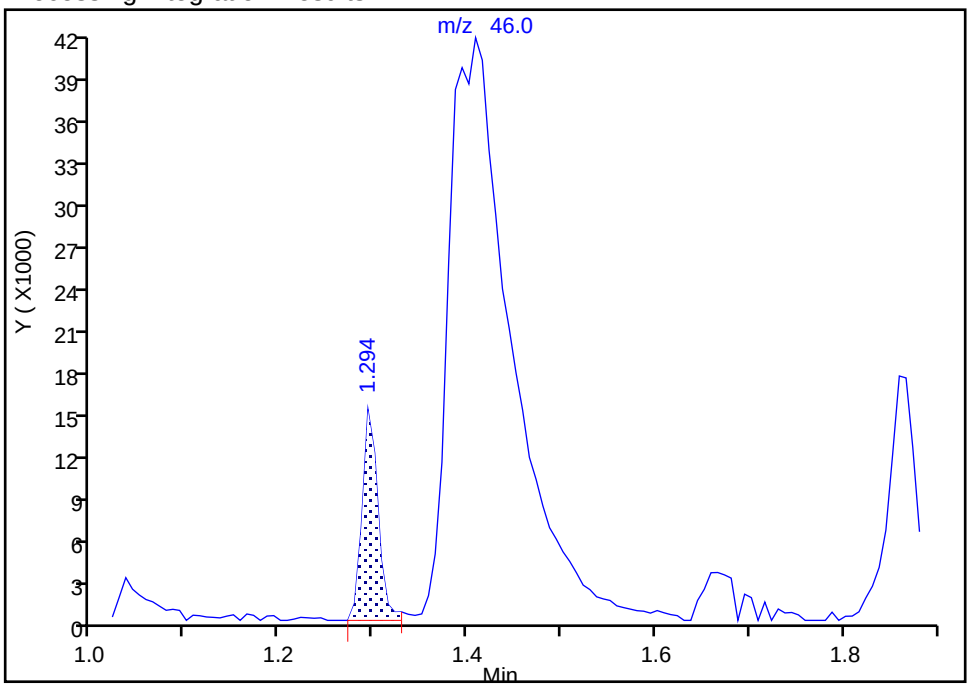
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

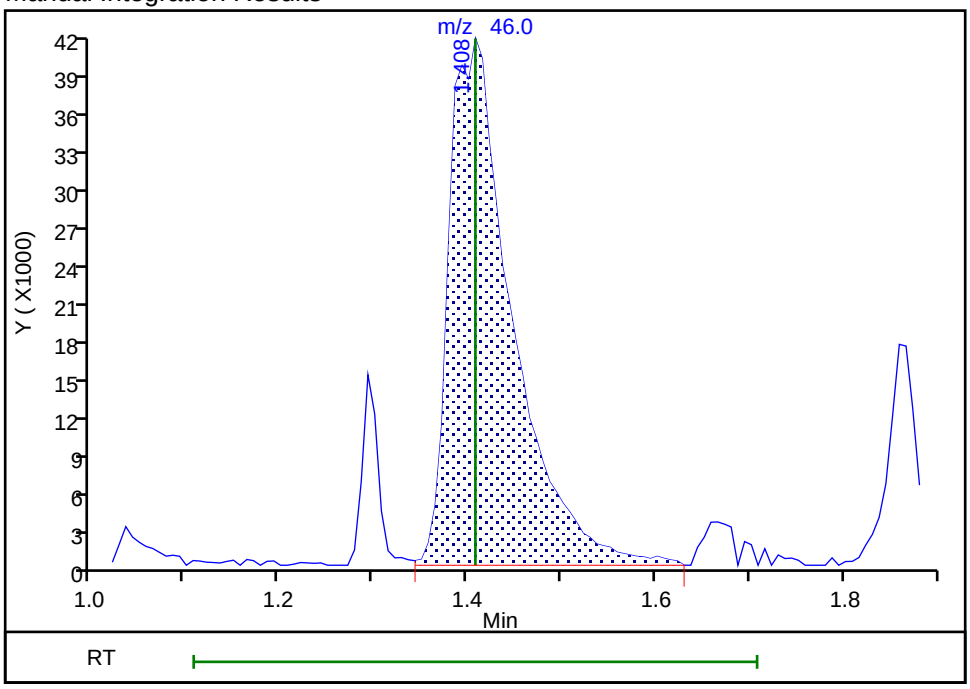
Processing Integration Results

RT: 1.29
Area: 17630
Amount: 1969.0141
Amount Units: ug/l



Manual Integration Results

RT: 1.41
Area: 192362
Amount: 18839
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:17:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

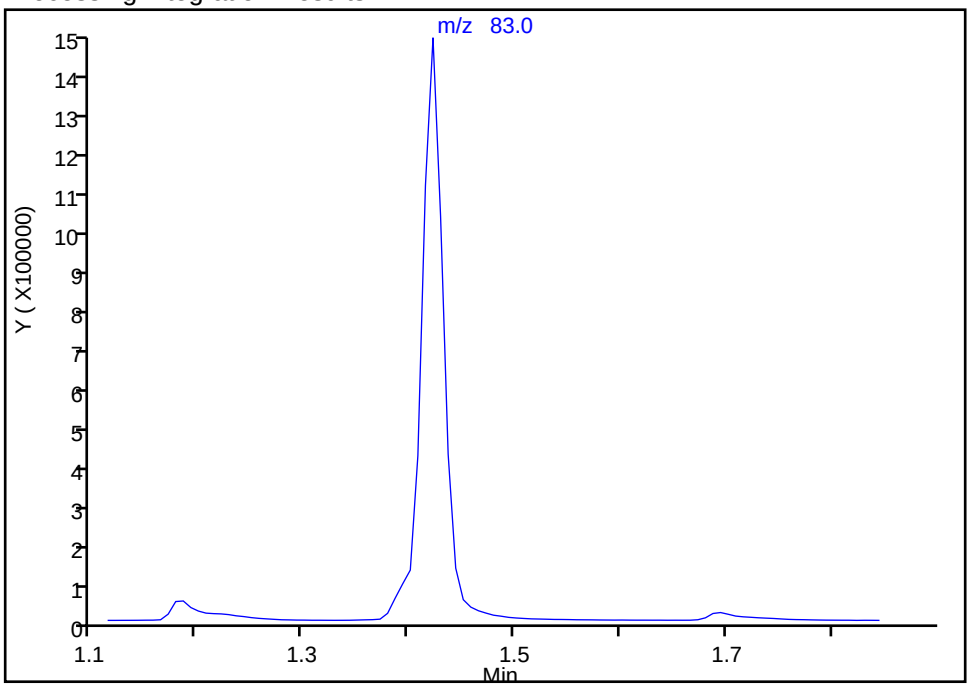
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 1,1,1-Trifluoro-2,2-dichloroetha, CAS: 306-83-2

Signal: 1

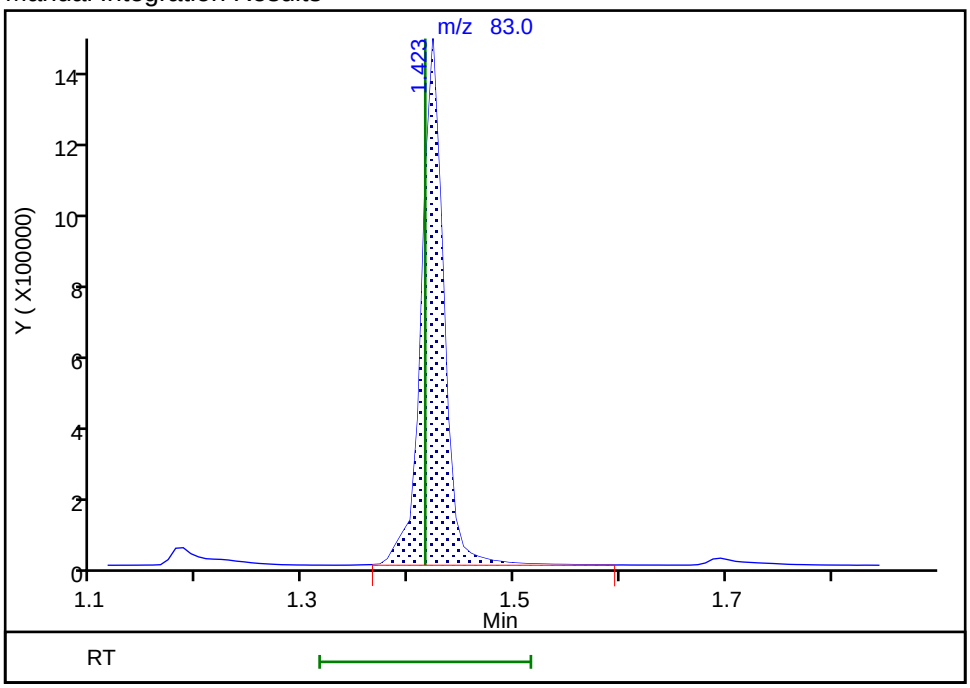
Not Detected
Expected RT: 1.42

Processing Integration Results



Manual Integration Results

RT: 1.42
Area: 2199434
Amount: 520.7545
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:17:23
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

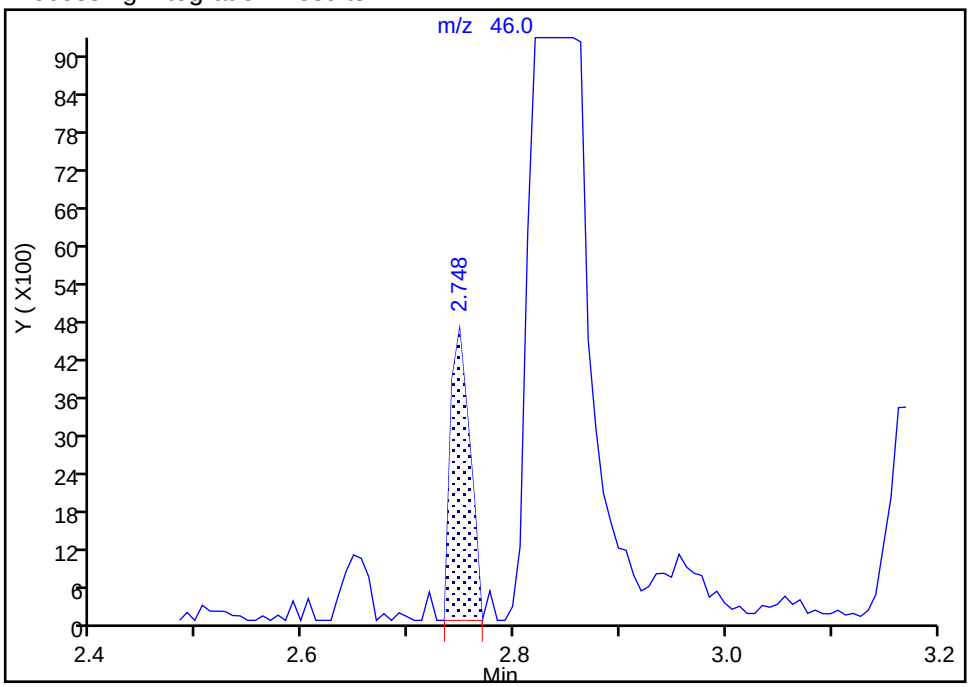
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 53 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

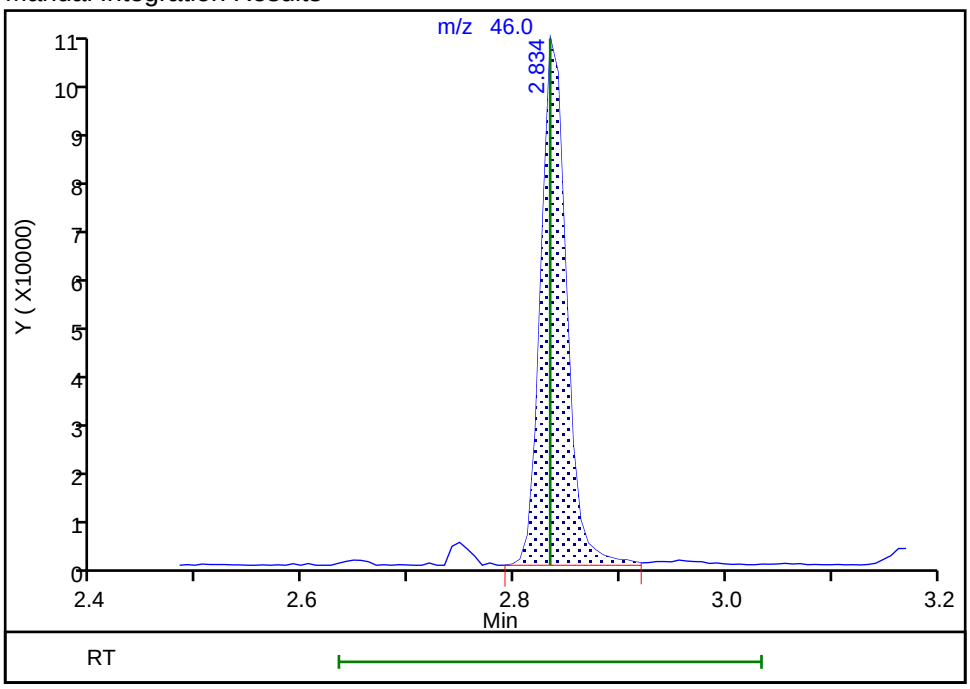
Processing Integration Results

RT: 2.75
Area: 5828
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 2.83
Area: 179665
Amount: 250.0000
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:25:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

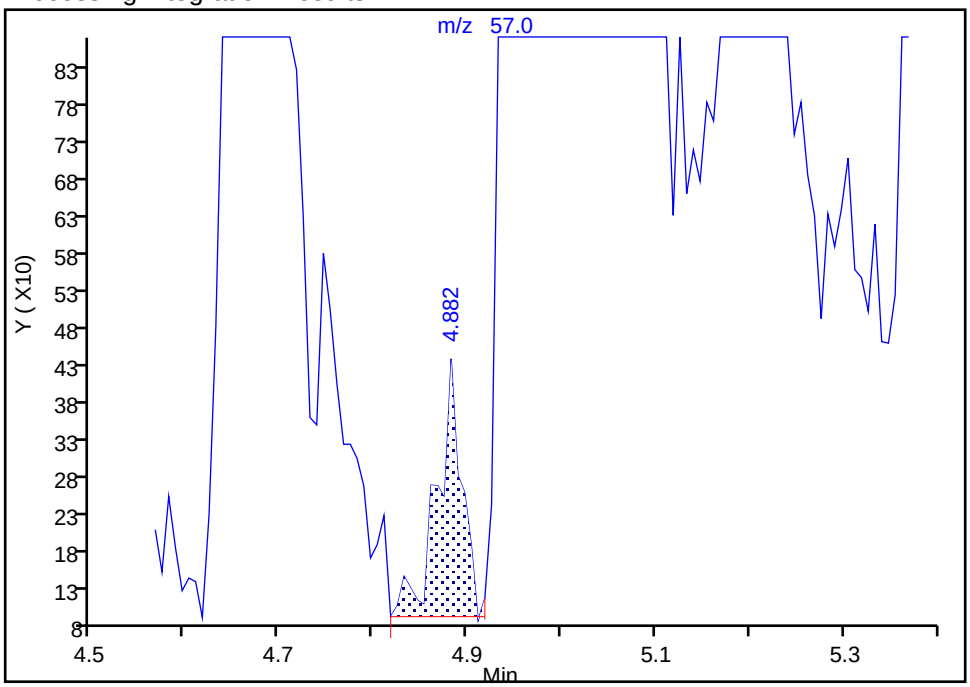
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

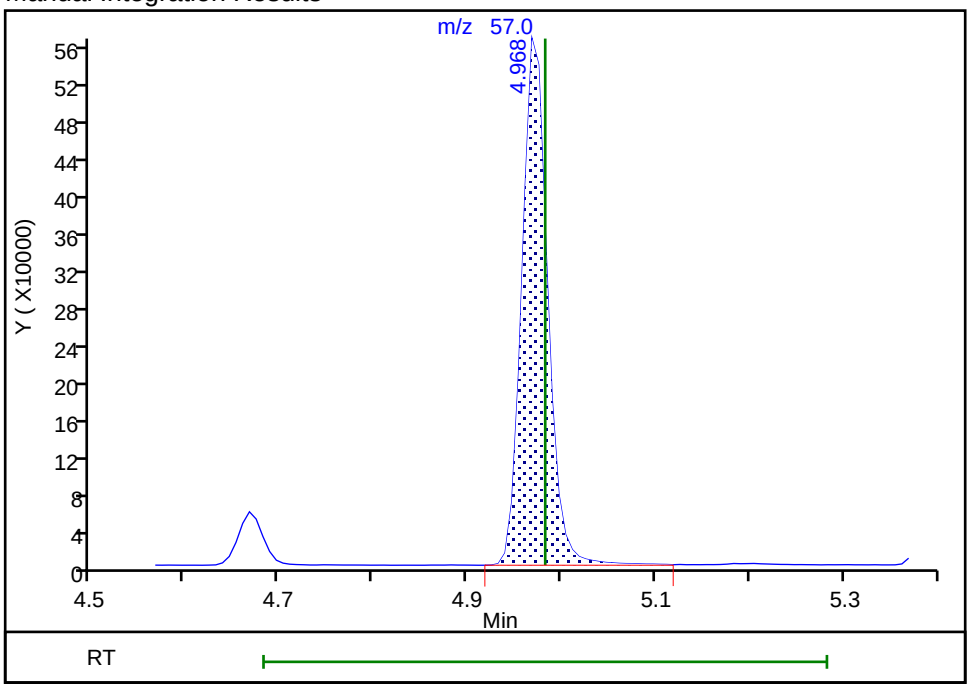
Processing Integration Results

RT: 4.88
Area: 635
Amount: 12.810448
Amount Units: ug/l



Manual Integration Results

RT: 4.97
Area: 1076562
Amount: 9996.8603
Amount Units: ug/l



Reviewer: boykink, 05-Sep-2020 00:29:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

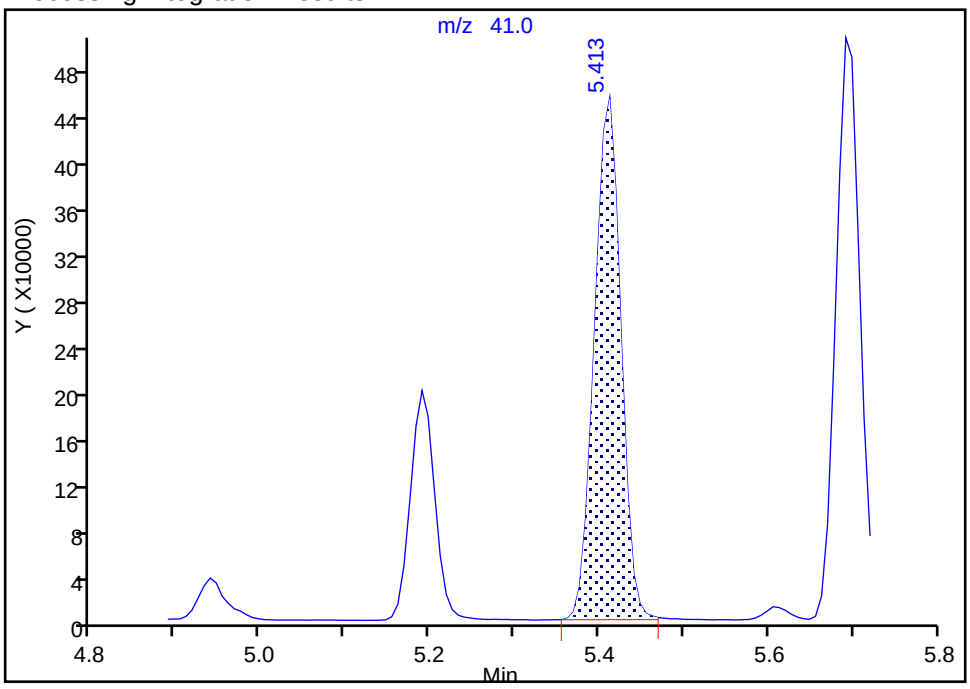
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D
Injection Date: 04-Sep-2020 16:58:30 Instrument ID: CVOAMS13
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

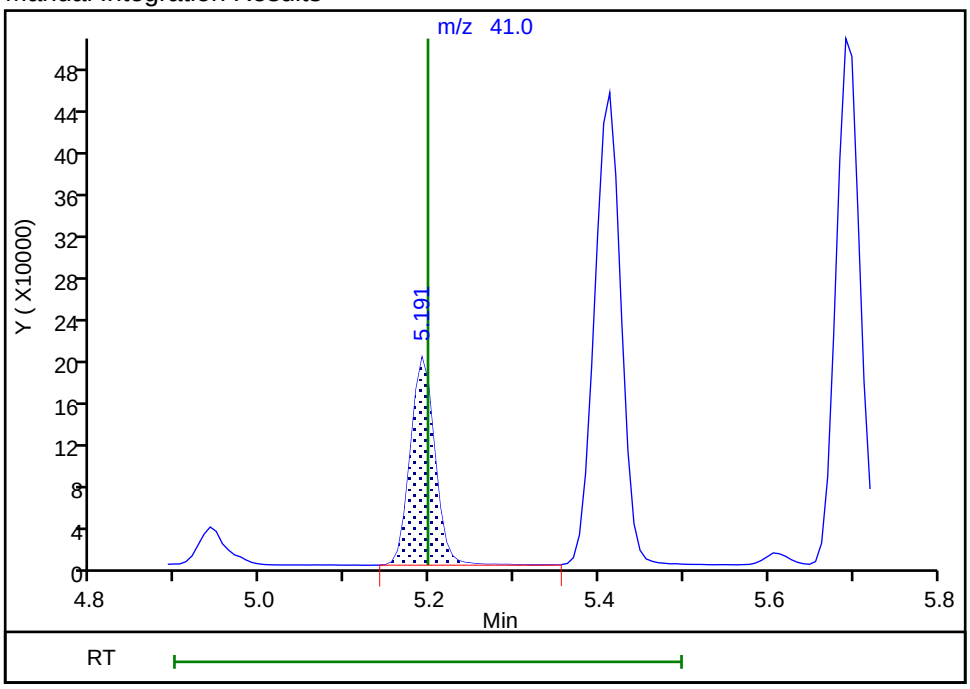
Processing Integration Results

RT: 5.41
Area: 982283
Amount: 1417.7766
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 401764
Amount: 1208.1550
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 12:11:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: ICV 460-721970/18 Calibration Date: 09/04/2020 20:34

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monochloropentafluoroethane	Ave	0.0221	0.0097		8.83	20.0	-55.9*	30.0
Chlorotrifluoroethene	Ave	0.0785	0.0566		14.4	20.0	-27.9	30.0
Dichlorodifluoromethane	Ave	0.3371	0.3929	0.1000	23.3	20.0	16.6	30.0
1,1-Difluoroethane	Ave	0.1598	0.1308		16.4	20.0	-18.1	30.0
Chlorodifluoromethane	Ave	0.0462	0.0422		18.3	20.0	-8.5	30.0
Butadiene	Ave	0.3132	0.3432		21.9	20.0	9.6	30.0
Chloromethane	Ave	0.4706	0.5395	0.1000	22.9	20.0	14.6	30.0
Vinyl chloride	Ave	0.3448	0.4126	0.1000	23.9	20.0	19.7	30.0
Bromomethane	Ave	2.558	3.790	0.1000	29.6	20.0	48.2*	30.0
Chloroethane	Ave	0.1832	0.2318	0.1000	25.3	20.0	26.6	30.0
Pentane	Ave	4.304	5.923		55.0	40.0	37.6*	30.0
Trichlorofluoromethane	Ave	0.3147	0.3837	0.1000	24.4	20.0	21.9	30.0
Dichlorofluoromethane	Ave	0.4231	0.4988		23.6	20.0	17.9	30.0
2-Methyl-1,3-butadiene	Ave	0.3621	0.4343		24.0	20.0	19.9	30.0
Ethyl ether	Ave	0.1689	0.2009		23.8	20.0	18.9	30.0
1,1-Dichloroethene	Ave	0.2250	0.2719	0.1000	24.2	20.0	20.8	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3284	0.3424		20.8	20.0	4.2	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2202	0.2586	0.1000	23.5	20.0	17.5	30.0
Carbon disulfide	Ave	0.8803	0.9881	0.1000	22.4	20.0	12.2	30.0
Ethanol	Ave	0.0830	0.0931		897	800	12.2	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.3408	0.3623		21.3	20.0	6.3	30.0
Iodomethane	QuaF		0.2300		12.9	20.0	-35.4*	30.0
Cyclopentene	Ave	0.6234	0.7513		24.1	20.0	20.5	30.0
Acrolein	Ave	1.943	1.150		23.7	40.1	-40.8*	30.0
Allyl chloride	Ave	0.1438	0.1592		22.1	20.0	10.7	30.0
Isopropyl alcohol	Ave	0.8071	0.8232		204	200	2.0	30.0
Methylene Chloride	Ave	0.2712	0.3066	0.1000	22.6	20.0	13.0	30.0
Acetone	QuaF		0.8158	0.0500	100	100	0.3	30.0
trans-1,2-Dichloroethene	Ave	0.2574	0.2970	0.1000	23.1	20.0	15.4	30.0
Methyl acetate	Ave	9.744	11.24	0.1000	46.1	40.0	15.4	30.0
Hexane	Ave	0.0621	0.0749		24.1	20.0	20.7	30.0
Methyl tert-butyl ether	Ave	0.5264	0.5856	0.1000	22.2	20.0	11.2	30.0
2-Methyl-2-propanol	QuaF		1.293		236	200	18.1	30.0
Acetonitrile	Ave	2.000	2.163		216	200	8.2	30.0
Isopropyl ether	Ave	0.8239	0.9643		23.4	20.0	17.0	30.0
2-Chloro-1,3-butadiene	Ave	0.2359	0.2624		22.3	20.0	11.3	30.0
1,1-Dichloroethane	Ave	0.4778	0.5281	0.2000	22.1	20.0	10.5	30.0
Acrylonitrile	Ave	0.0619	0.0699		226	200	12.8	30.0
Tert-butyl ethyl ether	Ave	0.6791	0.7647		22.5	20.0	12.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: ICV 460-721970/18 Calibration Date: 09/04/2020 20:34

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Vinyl acetate	Ave	0.3676	0.3236		35.2	40.0	-12.0	30.0
cis-1,2-Dichloroethene	Ave	0.2848	0.3187	0.1000	22.4	20.0	11.9	30.0
2,2-Dichloropropane	Ave	0.3235	0.3192		19.7	20.0	-1.3	30.0
Cyclohexane	Ave	0.4784	0.5577	0.1000	23.3	20.0	16.6	30.0
Chlorobromomethane	Ave	0.1245	0.1322		21.2	20.0	6.2	30.0
Chloroform	Ave	0.4283	0.4680	0.2000	21.9	20.0	9.3	30.0
Carbon tetrachloride	Ave	0.2525	0.2786	0.1000	22.1	20.0	10.3	30.0
Ethyl acetate	Ave	0.3240	0.3877		47.9	40.0	19.7	30.0
Methyl acrylate	Ave	0.1349	0.1495		22.2	20.0	10.8	30.0
Tetrahydrofuran	Ave	1.130	1.262		44.7	40.0	11.6	30.0
1,1,1-Trichloroethane	Ave	0.3442	0.3840	0.1000	22.3	20.0	11.6	30.0
1,1-Dichloropropene	QuaF		0.4000		21.5	20.0	7.4	30.0
2-Butanone (MEK)	Ave	0.3653	0.4231	0.0500	116	100	15.8	30.0
2,2,4-Trimethylpentane	Ave	0.7550	0.8355		22.1	20.0	10.7	30.0
n-Heptane	Ave	0.1853	0.1933		20.9	20.0	4.3	30.0
Benzene	Ave	1.561	1.763	0.5000	22.6	20.0	12.9	30.0
Propionitrile	Ave	2.122	2.469		233	200	16.3	30.0
Methacrylonitrile	Ave	0.0687	0.0775		226	200	12.9	30.0
Tert-amyl methyl ether	Ave	0.5651	0.6443		22.8	20.0	14.0	30.0
1,2-Dichloroethane	Ave	0.2794	0.3005	0.1000	21.5	20.0	7.5	30.0
Isobutyl alcohol	Ave	0.5347	0.5433		508	500	1.6	30.0
Isopropyl acetate	Ave	0.3173	0.3187		20.1	20.0	0.5	30.0
Methylcyclohexane	Ave	0.4413	0.5026	0.1000	22.8	20.0	13.9	30.0
Trichloroethene	Ave	0.2699	0.3063	0.2000	22.7	20.0	13.5	30.0
Dibromomethane	Ave	0.1204	0.1317		21.9	20.0	9.4	30.0
n-Butanol	QuaF		0.2955		448	500	-10.5	30.0
1,2-Dichloropropane	Ave	0.2703	0.3030	0.1000	22.4	20.0	12.1	30.0
Dichlorobromomethane	Ave	0.2965	0.3312	0.2000	22.3	20.0	11.7	30.0
Ethyl acrylate	Qua2		0.2032		22.4	20.0	11.9	30.0
Methyl methacrylate	Ave	0.0402	0.0465		46.2	40.0	15.6	30.0
1,4-Dioxane	Ave	1.153	1.264		438	400	9.6	30.0
n-Propyl acetate	Ave	0.2033	0.2201		21.7	20.0	8.3	30.0
2-Chloroethyl vinyl ether	Ave	0.0511	0.0407		15.9	20.0	-20.3	30.0
cis-1,3-Dichloropropene	Ave	0.5114	0.5562	0.2000	21.8	20.0	8.8	30.0
Toluene	Ave	1.586	1.759	0.4000	22.2	20.0	10.9	30.0
Epichlorohydrin	QuaF		0.0485		11.4	20.0	-43.2*	30.0
2-Nitropropane	Ave	0.0268	0.0259		38.6	40.0	-3.5	30.0
Tetrachloroethene	Ave	0.3736	0.4062	0.2000	21.7	20.0	8.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.586	3.009	0.0500	116	100	16.3	30.0
trans-1,3-Dichloropropene	Ave	0.4064	0.4205	0.1000	20.7	20.0	3.5	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2398	0.1000	22.2	20.0	10.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: ICV 460-721970/18 Calibration Date: 09/04/2020 20:34

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl methacrylate	Ave	0.2123	0.2356		22.2	20.0	11.0	30.0
Chlorodibromomethane	Ave	0.2791	0.3028	0.1000	21.7	20.0	8.5	30.0
1,3-Dichloropropane	Ave	0.4502	0.5002		22.2	20.0	11.1	30.0
Ethylene Dibromide	Ave	0.2324	0.2641	0.1000	22.7	20.0	13.7	30.0
n-Butyl acetate	Qua2		0.3323		21.8	20.0	9.1	30.0
2-Hexanone	Ave	1.736	2.066	0.0500	119	100	19.0	30.0
Chlorobenzene	Ave	0.9935	1.098	0.5000	22.1	20.0	10.5	30.0
Ethylbenzene	Ave	0.5568	0.6154	0.1000	22.1	20.0	10.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3075	0.3412		22.2	20.0	11.0	30.0
m-Xylene & p-Xylene	Ave	0.6531	0.7498	0.1000	23.0	20.0	14.8	30.0
o-Xylene	Ave	0.6608	0.7377	0.3000	22.3	20.0	11.6	30.0
Bromoform	Ave	0.1577	0.1690	0.1000	21.4	20.0	7.2	30.0
Styrene	Ave	1.057	1.212	0.3000	22.9	20.0	14.7	30.0
n-Butyl acrylate	Qua2		0.1920		21.7	20.0	8.3	30.0
Isopropylbenzene	Ave	1.714	1.942	0.1000	22.7	20.0	13.3	30.0
Amyl acetate (mixed isomers)	Qua2		0.7905		21.8	20.0	9.2	30.0
Bromobenzene	Ave	0.7390	0.8320		22.5	20.0	12.6	30.0
N-Propylbenzene	Ave	3.698	4.166		22.5	20.0	12.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5126	0.5414	0.3000	21.1	20.0	5.6	30.0
2-Chlorotoluene	Ave	2.548	2.813		22.1	20.0	10.4	30.0
4-Ethyltoluene	Ave	3.072	3.485		22.7	20.0	13.4	30.0
1,2,3-Trichloropropane	Ave	0.1356	0.1510		22.3	20.0	11.3	30.0
1,3,5-Trimethylbenzene	Ave	2.564	2.870		22.4	20.0	11.9	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0979	0.0972		19.9	20.0	-0.7	30.0
4-Chlorotoluene	Ave	2.239	2.513		22.5	20.0	12.3	30.0
tert-Butylbenzene	Ave	2.217	2.487		22.4	20.0	12.2	30.0
1,2,4-Trimethylbenzene	Ave	2.645	2.944		22.3	20.0	11.3	30.0
Butyl Methacrylate	Qua2		0.7940		22.2	20.0	11.2	30.0
sec-Butylbenzene	Ave	3.367	3.753		22.3	20.0	11.5	30.0
1,3-Dichlorobenzene	Ave	1.460	1.599	0.6000	21.9	20.0	9.6	30.0
4-Isopropyltoluene	Ave	2.840	3.182		22.4	20.0	12.1	30.0
1,4-Dichlorobenzene	Ave	1.537	1.672	0.5000	21.8	20.0	8.8	30.0
1,2,3-Trimethylbenzene	Ave	2.680	3.043		22.7	20.0	13.6	30.0
Indan	Ave	2.600	2.962		22.8	20.0	13.9	30.0
Benzyl chloride	Qua2		0.1436		18.5	20.0	-7.4	30.0
p-Diethylbenzene	Ave	1.431	1.659		23.2	20.0	15.9	30.0
n-Butylbenzene	Ave	2.589	2.847		22.0	20.0	10.0	30.0
1,2-Dichlorobenzene	Ave	1.336	1.464	0.4000	21.9	20.0	9.5	30.0
1,2,4,5-Tetramethylbenzene	Ave	2.492	2.877		23.1	20.0	15.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0853	0.0895	0.0500	21.0	20.0	4.8	30.0
1,3,5-Trichlorobenzene	Ave	1.060	1.194		22.5	20.0	12.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: ICV 460-721970/18 Calibration Date: 09/04/2020 20:34

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.8895	0.9706	0.2000	21.8	20.0	9.1	30.0
Hexachlorobutadiene	Ave	0.3928	0.4115		21.0	20.0	4.8	30.0
Naphthalene	Ave	1.641	1.606		19.6	20.0	-2.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7279	0.7668		21.1	20.0	5.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2153	0.2277		52.9	50.0	5.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2161	0.2355		54.5	50.0	9.0	30.0
Toluene-d8 (Surr)	Ave	1.290	1.397		54.2	50.0	8.3	30.0
4-Bromofluorobenzene	Ave	0.4048	0.4425		54.7	50.0	9.3	30.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 04-Sep-2020 20:34:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0116303-018
Operator ID: Instrument ID: CVOAMS13
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 10:32:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: baronm Date: 10-Sep-2020 10:37:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.742	0.721	0.021	68	2025	20.0	8.83	M
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	88	11768	20.0	14.4	
3 Dichlorodifluoromethane	85	0.771	0.771	0.000	99	81758	20.0	23.3	
4 1,1-Difluoroethane	65	0.807	0.807	0.000	89	27217	20.0	16.4	
5 Chlorodifluoromethane	67	0.828	0.814	0.014	96	8790	20.0	18.3	a
6 Chloromethane	50	0.893	0.892	0.001	97	112258	20.0	22.9	
8 Butadiene	54	0.893	0.892	0.001	97	71406	20.0	21.9	
7 Vinyl chloride	62	0.893	0.892	0.001	97	85863	20.0	23.9	
9 Bromomethane	94	1.036	1.036	0.000	99	40540	20.0	29.6	
10 Chloroethane	64	1.093	1.093	0.000	99	48243	20.0	25.3	M
11 Pentane	72	1.150	1.150	0.000	97	23140	40.0	55.0	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	55	79843	20.0	24.4	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	99	103796	20.0	23.6	
14 2-Methyl-1,3-butadiene	67	1.287	1.286	0.001	96	90380	20.0	24.0	
15 Ethyl ether	59	1.294	1.294	0.000	95	41795	20.0	23.8	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	70	71240	20.0	20.8	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	56570	20.0	24.2	
16 Ethanol	46	1.408	1.408	0.000	27	7271	800.0	897.3	a
19 Carbon disulfide	76	1.408	1.408	0.000	99	205612	20.0	22.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	93	53810	20.0	23.5	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.415	1.415	0.000	96	75396	20.0	21.3	
22 Iodomethane	142	1.466	1.466	0.000	96	47852	20.0	12.9	
23 Cyclopentene	67	1.537	1.537	0.000	96	156335	20.0	24.1	
24 Acrolein	56	1.559	1.559	0.000	93	4500	40.1	23.7	
25 3-Chloro-1-propene	76	1.630	1.630	0.000	94	33122	20.0	22.1	
26 Isopropyl alcohol	45	1.659	1.659	0.000	97	16080	200.0	204.0	
27 Methylene Chloride	84	1.695	1.695	0.000	92	63803	20.0	22.6	
28 Acetone	43	1.709	1.716	-0.007	87	43630	100.0	100.3	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	61805	20.0	23.1	
30 Methyl acetate	43	1.781	1.781	0.000	98	43917	40.0	46.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.817	1.817	0.000	90	15587	20.0	24.1	
32 Methyl tert-butyl ether	73	1.831	1.838	-0.007	88	121848	20.0	22.2	
* 33 TBA-d9 (IS)	65	1.860	1.860	0.000	100	97671	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.903	1.902	0.001	100	25252	200.0	236.2	
35 Acetonitrile	41	1.981	1.981	0.000	99	42255	200.0	216.4	
36 Isopropyl ether	45	2.053	2.053	0.000	98	200655	20.0	23.4	
37 2-Chloro-1,3-butadiene	88	2.110	2.110	0.000	89	54607	20.0	22.3	
38 1,1-Dichloroethane	63	2.117	2.117	0.000	100	109900	20.0	22.1	
39 Acrylonitrile	53	2.153	2.153	0.000	95	145372	200.0	225.7	
40 Tert-butyl ethyl ether	59	2.275	2.275	0.000	89	159126	20.0	22.5	
41 Vinyl acetate	43	2.282	2.282	0.000	100	134675	40.0	35.2	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	96	66317	20.0	22.4	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	66429	20.0	19.7	
44 Cyclohexane	56	2.583	2.583	0.000	91	116054	20.0	23.3	
45 Chlorobromomethane	128	2.590	2.590	0.000	95	27499	20.0	21.2	
46 Chloroform	83	2.647	2.647	0.000	98	97387	20.0	21.9	
47 Carbon tetrachloride	117	2.733	2.733	0.000	99	57978	20.0	22.1	
48 Ethyl acetate	70	2.748	2.748	0.000	99	8293	40.0	47.9	
49 Methyl acrylate	55	2.748	2.748	0.000	87	31099	20.0	22.2	
50 Tetrahydrofuran	42	2.755	2.755	0.000	96	26995	40.0	44.7	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.776	0.000	98	118453	50.0	52.9	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	97	79909	20.0	22.3	
* 53 2-Butanone-d5	46	2.834	2.834	0.000	100	133699	250.0	250.0	
55 1,1-Dichloropropene	75	2.870	2.869	0.001	98	83245	20.0	21.5	
54 2-Butanone (MEK)	72	2.870	2.869	0.001	98	22626	100.0	115.8	
56 Isooctane	57	2.956	2.955	0.001	99	173853	20.0	22.1	
57 n-Heptane	57	3.049	3.049	0.000	95	40223	20.0	20.9	
58 Benzene	78	3.056	3.056	0.000	96	259468	20.0	22.6	
59 Propionitrile	54	3.077	3.077	0.000	92	48225	200.0	232.7	
60 Methacrylonitrile	67	3.092	3.092	0.000	91	161245	200.0	225.7	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	122509	50.0	54.5	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	99	134062	20.0	22.8	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	62523	20.0	21.5	
64 Isobutyl alcohol	43	3.292	3.292	0.000	96	26531	500.0	508.0	
65 t-Amyl alcohol	59	3.357	3.357	0.000	92	17589	200.0	207.5	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	520222	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	66324	20.0	20.1	
68 Methylcyclohexane	83	3.514	3.507	0.007	96	104591	20.0	22.8	
69 Trichloroethene	130	3.536	3.536	0.000	98	63738	20.0	22.7	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	93	130315	20.0	22.5	
71 Dibromomethane	93	3.894	3.894	0.000	96	27403	20.0	21.9	
72 n-Butanol	56	3.915	3.915	0.000	89	14430	500.0	447.5	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	63048	20.0	22.4	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	68909	20.0	22.3	
74 Ethyl acrylate	55	4.066	4.066	0.000	97	42288	20.0	22.4	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	88	13148	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.259	0.000	91	19358	40.0	46.2	
78 1,4-Dioxane	88	4.266	4.273	-0.007	35	6649	400.0	438.5	
79 n-Propyl acetate	43	4.417	4.417	0.000	100	45801	20.0	21.7	
80 2-Chloroethyl vinyl ether	63	4.667	4.675	-0.008	97	8479	20.0	15.9	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	81874	20.0	21.8	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	514202	50.0	54.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	4.940	4.940	0.000	93	258968	20.0	22.2	
84 Epichlorohydrin	57	4.990	4.983	0.007	1	519	20.0	11.4	a
85 2-Nitropropane	41	5.190	5.197	-0.007	97	10773	40.0	38.6	a
86 Tetrachloroethene	166	5.362	5.362	0.000	98	59791	20.0	21.7	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.405	0.000	97	160902	100.0	116.3	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	94	61904	20.0	20.7	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	35299	20.0	22.2	
90 Ethyl methacrylate	69	5.699	5.699	0.000	90	49030	20.0	22.2	
91 Chlorodibromomethane	129	5.799	5.799	0.000	98	44574	20.0	21.7	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	95	73642	20.0	22.2	
93 Ethylene Dibromide	107	6.043	6.050	-0.007	98	38884	20.0	22.7	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	48921	20.0	21.8	
95 2-Hexanone	43	6.458	6.458	0.000	96	110481	100.0	119.0	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	87	368030	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	161644	20.0	22.1	
98 Ethylbenzene	106	6.831	6.831	0.000	98	90587	20.0	22.1	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	94	50235	20.0	22.2	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	110382	20.0	23.0	
101 o-Xylene	106	7.626	7.626	0.000	94	108595	20.0	22.3	
102 Bromoform	173	7.697	7.690	0.007	95	24879	20.0	21.4	
103 Styrene	104	7.712	7.719	-0.007	96	178474	20.0	22.9	
104 n-Butyl acrylate	73	8.056	8.056	0.000	98	28260	20.0	21.7	
105 Isopropylbenzene	105	8.113	8.113	0.000	96	285869	20.0	22.7	
106 Amyl acetate (mixed isomers)	43	8.471	8.471	0.000	89	64894	20.0	21.8	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	92	162869	50.0	54.7	
108 Bromobenzene	156	8.586	8.586	0.000	97	68300	20.0	22.5	
109 N-Propylbenzene	91	8.743	8.743	0.000	99	341964	20.0	22.5	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	99	44441	20.0	21.1	
111 2-Chlorotoluene	91	8.908	8.908	0.000	96	230889	20.0	22.1	
112 4-Ethyltoluene	105	8.929	8.929	0.000	98	286112	20.0	22.7	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	12392	20.0	22.3	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	235599	20.0	22.4	
115 trans-1,4-Dichloro-2-butene	53	9.166	9.166	0.000	64	7977	20.0	19.9	
116 4-Chlorotoluene	91	9.173	9.173	0.000	98	206334	20.0	22.5	
117 tert-Butylbenzene	119	9.546	9.545	0.001	96	204188	20.0	22.4	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	241642	20.0	22.3	
119 Butyl Methacrylate	87	9.696	9.696	0.000	92	65181	20.0	22.2	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	308098	20.0	22.3	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	97	131304	20.0	21.9	
122 4-Isopropyltoluene	119	10.119	10.118	0.001	98	261251	20.0	22.4	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	205232	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.247	10.247	0.000	96	137233	20.0	21.8	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	249810	20.0	22.7	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	243174	20.0	22.8	
127 Benzyl chloride	126	10.713	10.713	0.000	96	11791	20.0	18.5	
128 p-Diethylbenzene	119	10.727	10.727	0.000	93	136183	20.0	23.2	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	233725	20.0	22.0	
130 1,2-Dichlorobenzene	146	10.914	10.921	-0.007	97	120160	20.0	21.9	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	236206	20.0	23.1	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	92	7344	20.0	21.0	
133 1,3,5-Trichlorobenzene	180	12.117	12.124	-0.007	97	98006	20.0	22.5	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	93	79678	20.0	21.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.841	12.840	0.000	96	33784	20.0	21.0	
136 Naphthalene	128	13.127	13.127	0.000	99	131832	20.0	19.6	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	62945	20.0	21.1	
S 138 1,2-Dichloroethene, Total	100				0		40.0	45.5	
S 139 1,3-Dichloropropene, Total	100				0		40.0	42.4	
S 140 Xylenes, Total	100				0		40.0	45.3	
S 142 Total BTEX	1				0		100.0	112.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS C SP_00372	Amount Added:	20.00	Units: uL	
8260 SP_00129	Amount Added:	20.00	Units: uL	
ACROLEIN SP_00116	Amount Added:	4.00	Units: uL	
8FreonsSS_00023	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 10:37:26 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D

Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13 Operator ID:

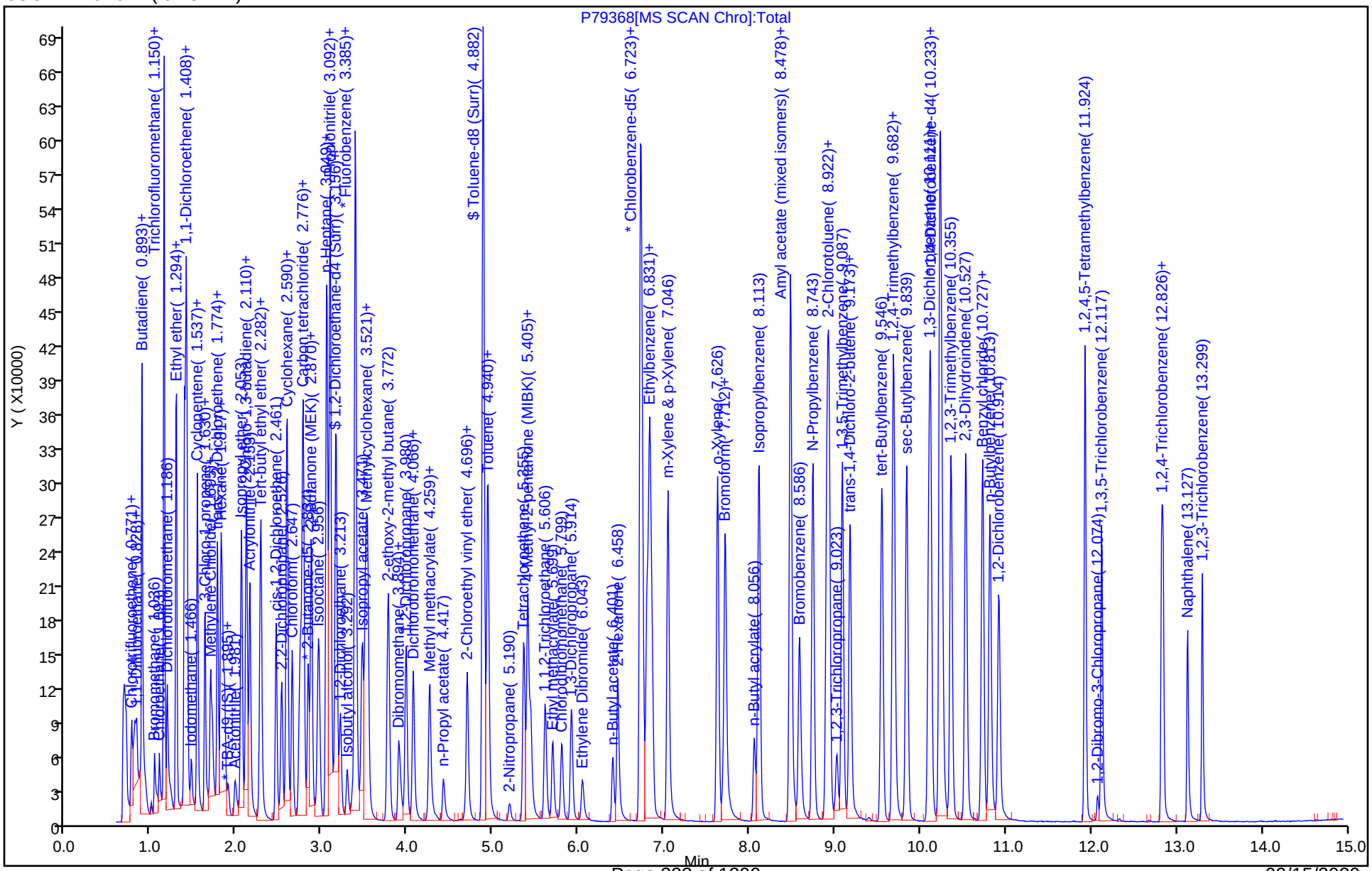
Lims ID: ICV Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison

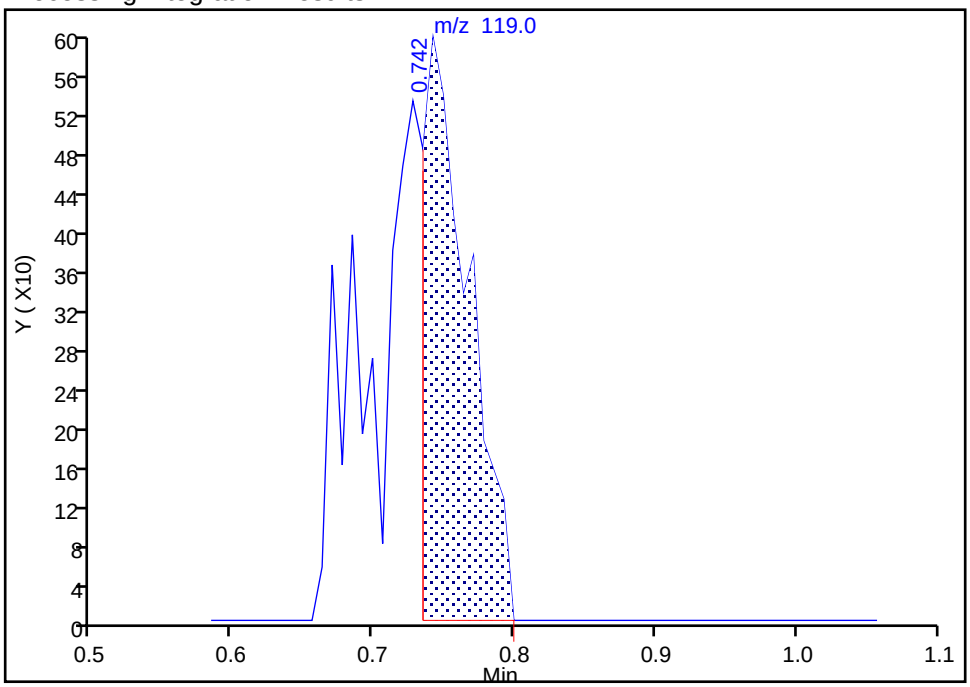
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Monochloropentafluoroethane, CAS: 76-15-3

Signal: 1

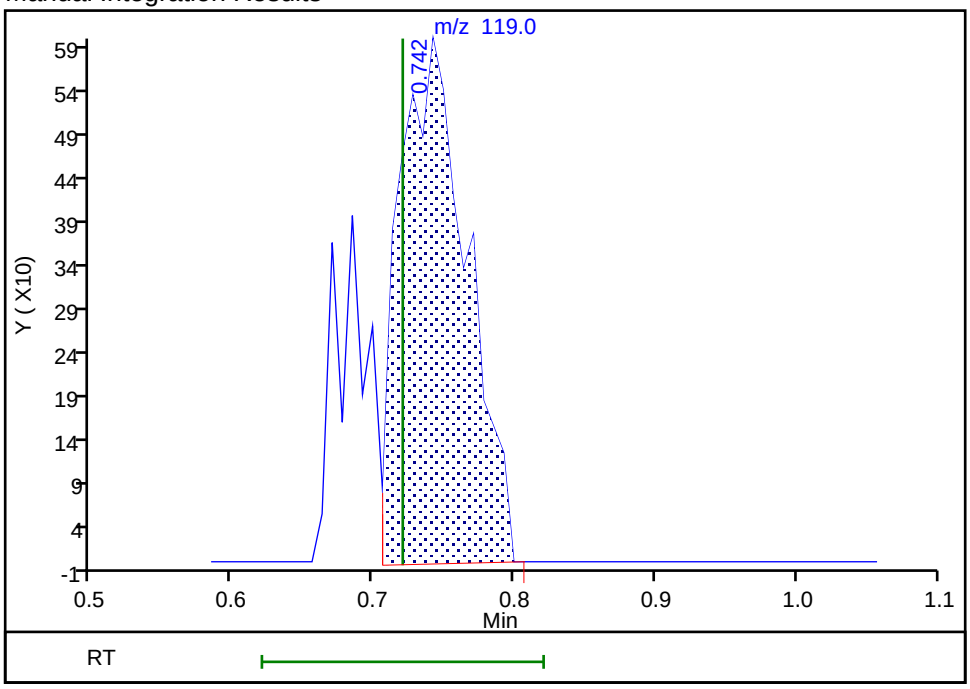
Processing Integration Results

RT: 0.74
Area: 1383
Amount: 6.028105
Amount Units: ug/l



Manual Integration Results

RT: 0.74
Area: 2025
Amount: 8.826402
Amount Units: ug/l



Reviewer: baronm, 06-Sep-2020 07:25:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

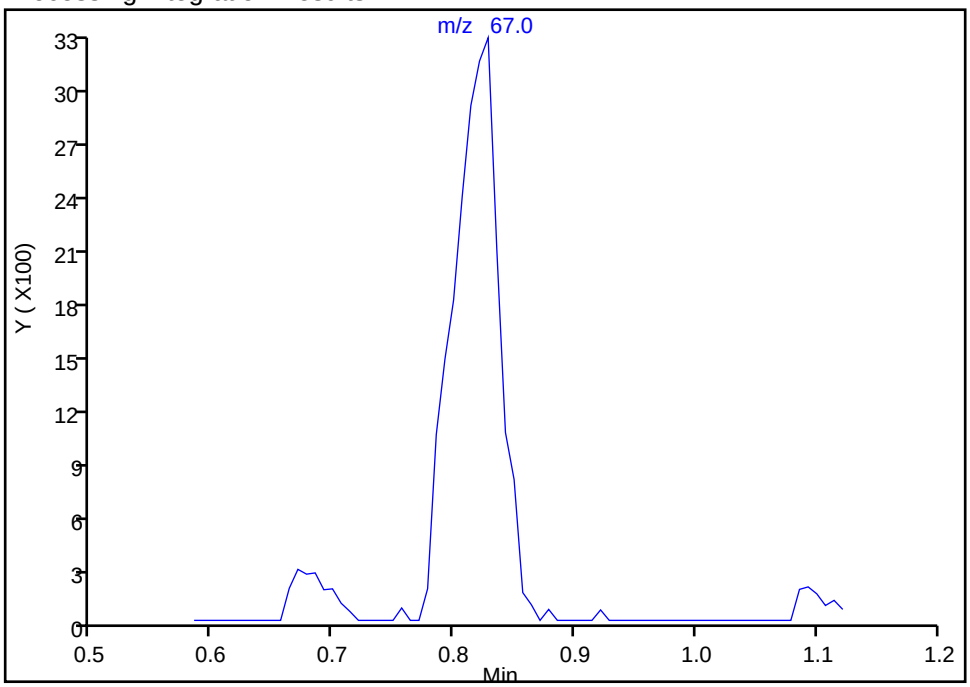
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

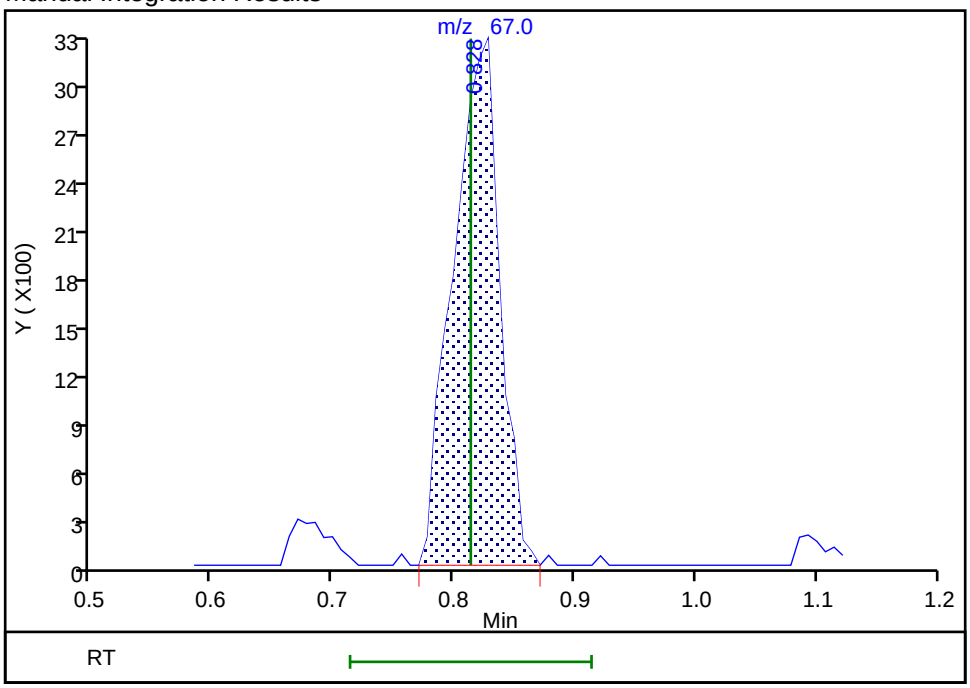
Not Detected
Expected RT: 0.81

Processing Integration Results



Manual Integration Results

RT: 0.83
Area: 8790
Amount: 18.296651
Amount Units: ug/l



Reviewer: baronm, 06-Sep-2020 07:25:13
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

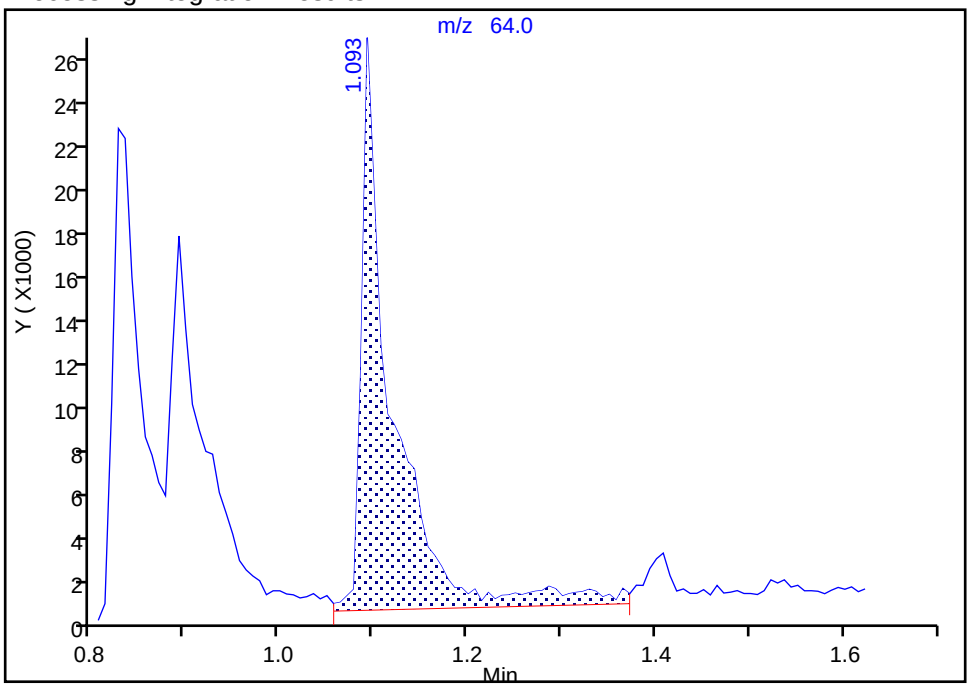
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Chloroethane, CAS: 75-00-3

Signal: 1

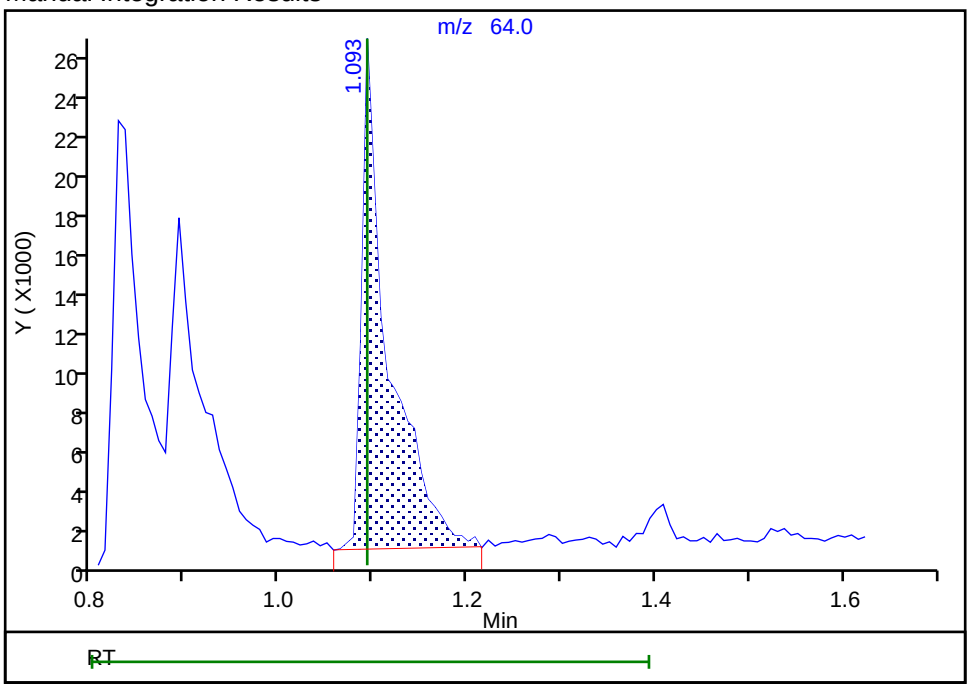
Processing Integration Results

RT: 1.09
Area: 56666
Amount: 29.733128
Amount Units: ug/l



Manual Integration Results

RT: 1.09
Area: 48243
Amount: 25.313509
Amount Units: ug/l



Reviewer: baronm, 06-Sep-2020 07:25:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

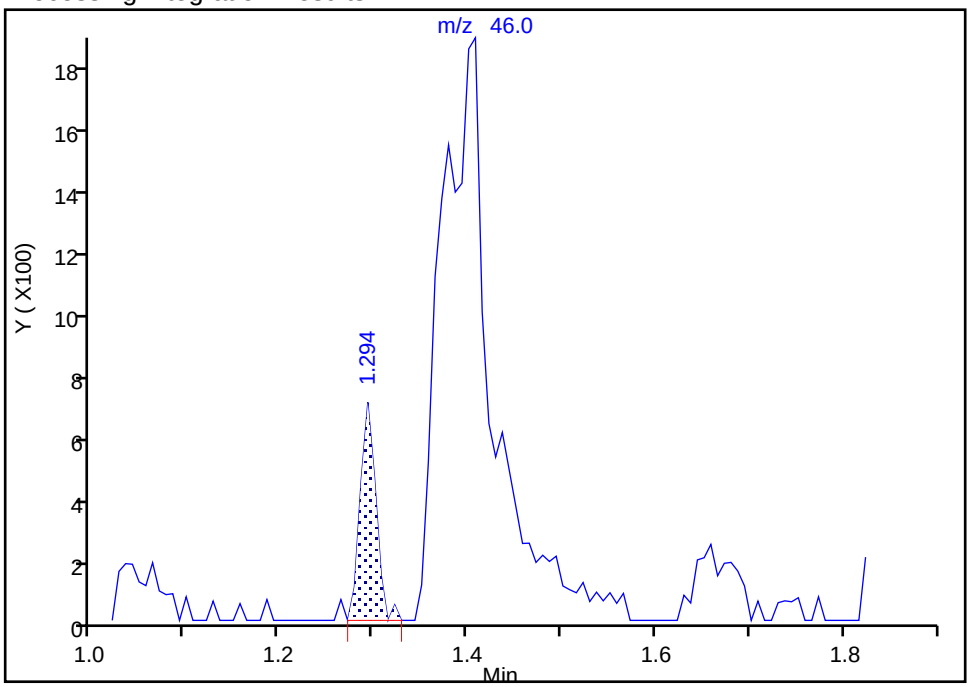
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

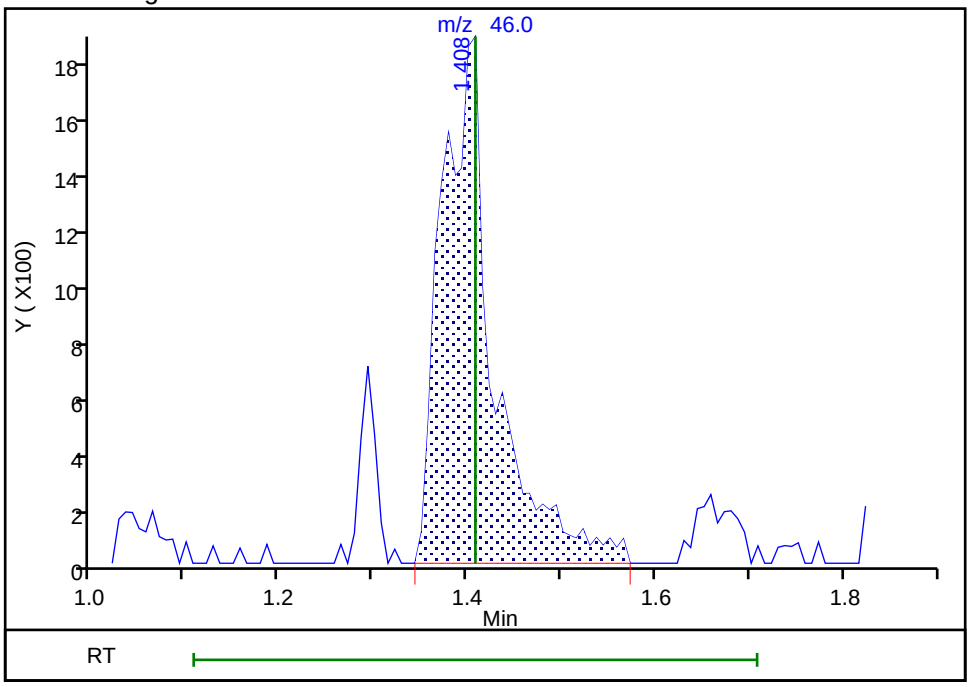
Processing Integration Results

RT: 1.29
Area: 822
Amount: 101.4361
Amount Units: ug/l



Manual Integration Results

RT: 1.41
Area: 7271
Amount: 897.2526
Amount Units: ug/l



Reviewer: baronm, 06-Sep-2020 07:25:52
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

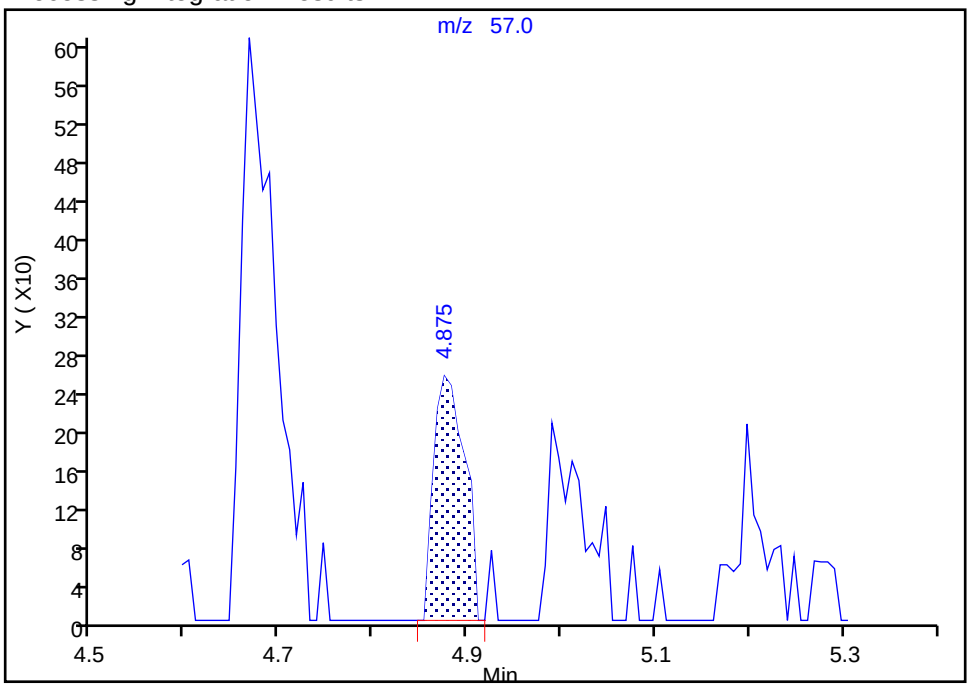
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

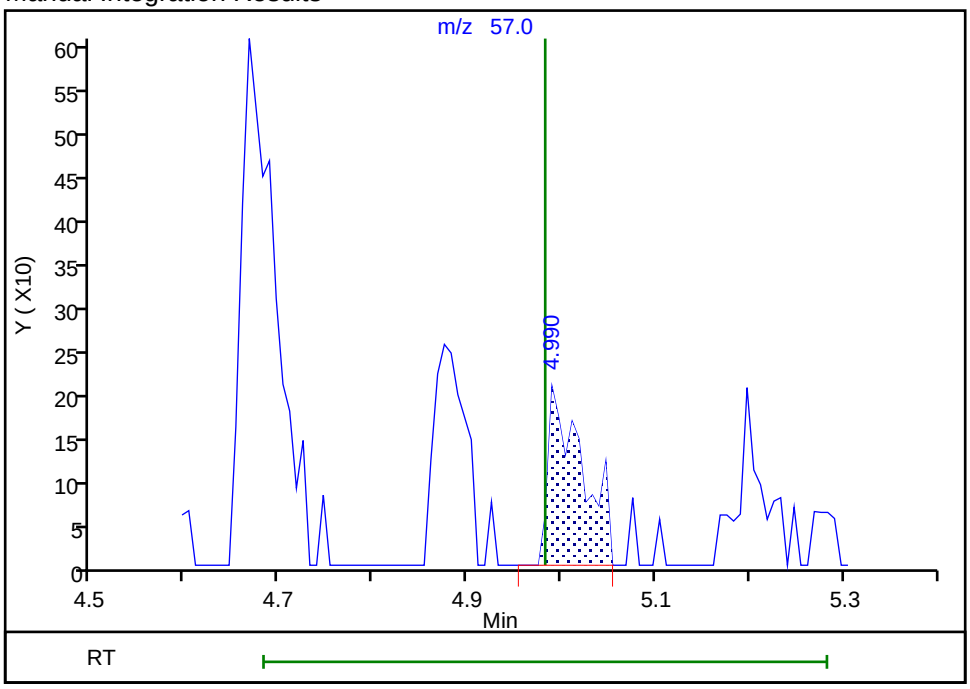
Processing Integration Results

RT: 4.88
Area: 583
Amount: 12.750933
Amount Units: ug/l



Manual Integration Results

RT: 4.99
Area: 519
Amount: 11.352370
Amount Units: ug/l



Reviewer: baronm, 06-Sep-2020 07:26:44
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

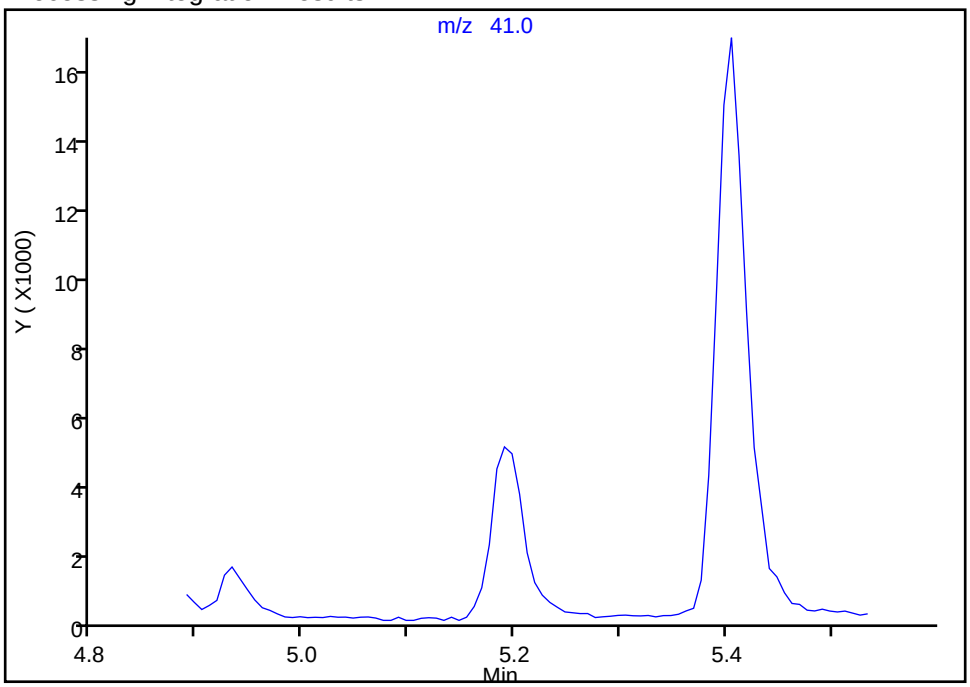
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79368.D
Injection Date: 04-Sep-2020 20:34:30 Instrument ID: CVOAMS13
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Nitropropane, CAS: 79-46-9

Signal: 1

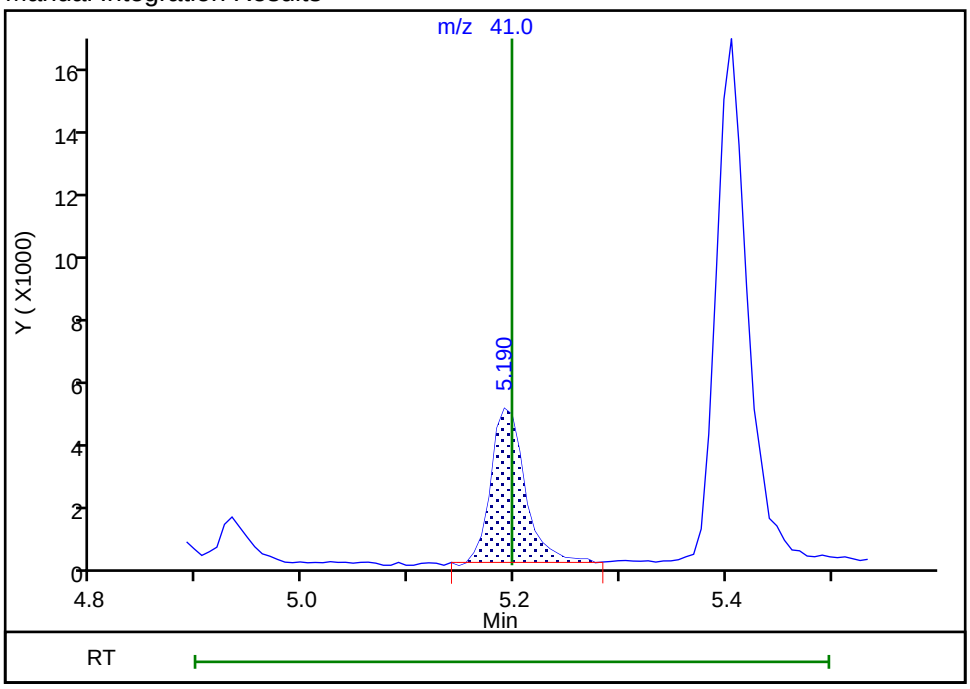
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 10773
Amount: 38.589874
Amount Units: ug/l



Reviewer: baronm, 06-Sep-2020 07:26:52
Audit Action: Assigned Compound ID Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722597/3 Calibration Date: 09/08/2020 19:49

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3371	0.3537	0.1000	21.0	20.0	4.9	20.0
Butadiene	Ave	0.3132	0.3087		19.7	20.0	-1.4	20.0
Chloromethane	Ave	0.4706	0.4510	0.1000	19.2	20.0	-4.2	20.0
Vinyl chloride	Ave	0.3448	0.3437	0.1000	19.9	20.0	-0.3	20.0
Bromomethane	Ave	2.558	3.962	0.1000	31.0	20.0	54.9*	50.0
Chloroethane	Ave	0.1832	0.1929	0.1000	21.1	20.0	5.3	50.0
Pentane	Ave	4.304	6.175		57.4	40.0	43.5*	20.0
Trichlorofluoromethane	Ave	0.3147	0.3365	0.1000	21.4	20.0	7.0	20.0
Dichlorofluoromethane	Ave	0.4231	0.4276		20.2	20.0	1.1	20.0
2-Methyl-1,3-butadiene	Ave	0.3621	0.3855		21.3	20.0	6.5	20.0
Ethyl ether	Ave	0.1689	0.1512		17.9	20.0	-10.5	20.0
1,1-Dichloroethene	Ave	0.2250	0.2363	0.1000	21.0	20.0	5.0	20.0
Carbon disulfide	Ave	0.8803	0.8658	0.1000	19.7	20.0	-1.6	50.0
Ethanol	Ave	0.0830	0.0800		772	800	-3.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2202	0.2423	0.1000	22.0	20.0	10.1	20.0
Iodomethane	QuaF		0.1309		7.35	20.0	-63.2*	20.0
Cyclopentene	Ave	0.6234	0.6754		21.7	20.0	8.3	20.0
Acrolein	Ave	1.943	2.113		43.5	40.0	8.7	50.0
Allyl chloride	Ave	0.1438	0.1473		20.5	20.0	2.4	20.0
Isopropyl alcohol	Ave	0.8071	0.6846		170	200	-15.2	50.0
Methylene Chloride	Ave	0.2712	0.2749	0.1000	20.3	20.0	1.4	20.0
Acetone	QuaF		0.8277	0.0500	102	100	1.8	50.0
trans-1,2-Dichloroethene	Ave	0.2574	0.2668	0.1000	20.7	20.0	3.6	20.0
Methyl acetate	Ave	9.744	11.85	0.1000	48.6	40.0	21.6*	20.0
Hexane	Ave	0.0621	0.0710		22.9	20.0	14.3	20.0
Methyl tert-butyl ether	Ave	0.5264	0.4908	0.1000	18.6	20.0	-6.8	20.0
2-Methyl-2-propanol	QuaF		1.089		199	200	-0.5	50.0
Acetonitrile	Ave	2.000	1.961		196	200	-1.9	20.0
Isopropyl ether	Ave	0.8239	0.7919		19.2	20.0	-3.9	20.0
2-Chloro-1,3-butadiene	Ave	0.2359	0.2519		21.4	20.0	6.8	20.0
1,1-Dichloroethane	Ave	0.4778	0.4787	0.2000	20.0	20.0	0.2	20.0
Acrylonitrile	Ave	0.0619	0.0558		180	200	-9.8	20.0
Tert-butyl ethyl ether	Ave	0.6791	0.6236		18.4	20.0	-8.2	20.0
Vinyl acetate	Ave	0.3676	0.3074		33.5	40.0	-16.4	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2885	0.1000	20.3	20.0	1.3	20.0
2,2-Dichloropropane	Ave	0.3235	0.3106		19.2	20.0	-4.0	20.0
Cyclohexane	Ave	0.4784	0.4973	0.1000	20.8	20.0	4.0	50.0
Chlorobromomethane	Ave	0.1245	0.1252		20.1	20.0	0.6	20.0
Chloroform	Ave	0.4283	0.4344	0.2000	20.3	20.0	1.4	20.0
Carbon tetrachloride	Ave	0.2525	0.2843	0.1000	22.5	20.0	12.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722597/3 Calibration Date: 09/08/2020 19:49

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3240	0.4139		51.1	40.0	27.7*	20.0
Methyl acrylate	Ave	0.1349	0.1082		16.0	20.0	-19.8	20.0
Tetrahydrofuran	Ave	1.130	1.230		43.5	40.0	8.8	20.0
1,1,1-Trichloroethane	Ave	0.3442	0.3612	0.1000	21.0	20.0	4.9	20.0
2-Butanone (MEK)	Ave	0.3653	0.4291	0.0500	117	100	17.5	50.0
1,1-Dichloropropene	QuaF		0.3787		20.3	20.0	1.7	20.0
2,2,4-Trimethylpentane	Ave	0.7550	0.8129		21.5	20.0	7.7	20.0
Benzene	Ave	1.561	1.594	0.5000	20.4	20.0	2.1	20.0
n-Heptane	Ave	0.1853	0.1999		21.6	20.0	7.8	20.0
Propionitrile	Ave	2.122	2.223		210	200	4.8	20.0
Methacrylonitrile	Ave	0.0687	0.0598		174	200	-12.9	20.0
Tert-amyl methyl ether	Ave	0.5651	0.5121		18.1	20.0	-9.4	20.0
1,2-Dichloroethane	Ave	0.2794	0.2546	0.1000	18.2	20.0	-8.9	20.0
Isobutyl alcohol	Ave	0.5347	0.4763		445	500	-10.9	50.0
Isopropyl acetate	Ave	0.3173	0.2379		15.0	20.0	-25.0*	20.0
Methylcyclohexane	Ave	0.4413	0.4759	0.1000	21.6	20.0	7.8	50.0
Trichloroethene	Ave	0.2699	0.2787	0.2000	20.7	20.0	3.3	20.0
Dibromomethane	Ave	0.1204	0.1103		18.3	20.0	-8.4	20.0
n-Butanol	QuaF		0.2395		382	500	-23.5	50.0
1,2-Dichloropropane	Ave	0.2703	0.2611	0.1000	19.3	20.0	-3.4	20.0
Dichlorobromomethane	Ave	0.2965	0.2859	0.2000	19.3	20.0	-3.6	20.0
Ethyl acrylate	Qua2		0.1466		16.3	20.0	-18.4	20.0
Methyl methacrylate	Ave	0.0402	0.0368		36.6	40.0	-8.6	20.0
1,4-Dioxane	Ave	1.153	1.038		360	400	-10.0	50.0
n-Propyl acetate	Ave	0.2033	0.1647		16.2	20.0	-19.0	20.0
2-Chloroethyl vinyl ether	Ave	0.0511	0.0299		11.7	20.0	-41.6*	20.0
cis-1,3-Dichloropropene	Ave	0.5114	0.4931	0.2000	19.3	20.0	-3.6	50.0
Toluene	Ave	1.586	1.636	0.4000	20.6	20.0	3.2	20.0
Epichlorohydrin	QuaF		0.0685		313	400	-21.6*	20.0
2-Nitropropane	Ave	0.0268	0.0214		31.9	40.0	-20.2*	20.0
Tetrachloroethene	Ave	0.3736	0.3986	0.2000	21.3	20.0	6.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.586	3.000	0.0500	116	100	16.0	50.0
trans-1,3-Dichloropropene	Ave	0.4064	0.3892	0.1000	19.2	20.0	-4.2	50.0
1,1,2-Trichloroethane	Ave	0.2163	0.1999	0.1000	18.5	20.0	-7.6	20.0
Ethyl methacrylate	Ave	0.2123	0.1912		18.0	20.0	-10.0	20.0
Chlorodibromomethane	Ave	0.2791	0.2629	0.1000	18.8	20.0	-5.8	50.0
1,3-Dichloropropane	Ave	0.4502	0.4274		19.0	20.0	-5.1	20.0
Ethylene Dibromide	Ave	0.2324	0.2232	0.1000	19.2	20.0	-4.0	20.0
n-Butyl acetate	Qua2		0.2494		16.5	20.0	-17.5	20.0
2-Hexanone	Ave	1.736	2.027	0.0500	117	100	16.8	50.0
Chlorobenzene	Ave	0.9935	1.018	0.5000	20.5	20.0	2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722597/3 Calibration Date: 09/08/2020 19:49

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylbenzene	Ave	0.5568	0.5869	0.1000	21.1	20.0	5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3075	0.3159		20.5	20.0	2.7	20.0
m-Xylene & p-Xylene	Ave	0.6531	0.7112	0.1000	21.8	20.0	8.9	20.0
o-Xylene	Ave	0.6608	0.6904	0.3000	20.9	20.0	4.5	20.0
Bromoform	Ave	0.1577	0.1434	0.1000	18.2	20.0	-9.1	20.0
Styrene	Ave	1.057	1.126	0.3000	21.3	20.0	6.5	20.0
n-Butyl acrylate	Qua2		0.1533		17.4	20.0	-13.1	20.0
Isopropylbenzene	Ave	1.714	1.817	0.1000	21.2	20.0	6.0	20.0
Amyl acetate (mixed isomers)	Qua2		0.6002		16.7	20.0	-16.5	20.0
Bromobenzene	Ave	0.7390	0.7762		21.0	20.0	5.0	20.0
N-Propylbenzene	Ave	3.698	3.921		21.2	20.0	6.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5126	0.4730	0.3000	18.5	20.0	-7.7	20.0
2-Chlorotoluene	Ave	2.548	2.590		20.3	20.0	1.6	20.0
4-Ethyltoluene	Ave	3.072	3.231		21.0	20.0	5.2	20.0
1,2,3-Trichloropropane	Ave	0.1356	0.1329		19.6	20.0	-2.0	20.0
1,3,5-Trimethylbenzene	Ave	2.564	2.693		21.0	20.0	5.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0979	0.0970		19.8	20.0	-0.9	20.0
4-Chlorotoluene	Ave	2.239	2.316		20.7	20.0	3.4	20.0
tert-Butylbenzene	Ave	2.217	2.339		21.1	20.0	5.5	20.0
1,2,4-Trimethylbenzene	Ave	2.645	2.717		20.5	20.0	2.7	20.0
Butyl Methacrylate	Qua2		0.6576		18.5	20.0	-7.4	20.0
sec-Butylbenzene	Ave	3.367	3.544		21.1	20.0	5.3	20.0
1,3-Dichlorobenzene	Ave	1.460	1.522	0.6000	20.9	20.0	4.3	20.0
4-Isopropyltoluene	Ave	2.840	3.004		21.2	20.0	5.8	20.0
1,4-Dichlorobenzene	Ave	1.537	1.539	0.5000	20.0	20.0	0.1	20.0
1,2,3-Trimethylbenzene	Ave	2.680	2.713		20.2	20.0	1.2	20.0
Indan	Ave	2.600	2.557		19.7	20.0	-1.7	20.0
Benzyl chloride	Qua2		0.1442		18.6	20.0	-7.0	50.0
p-Diethylbenzene	Ave	1.431	1.491		20.8	20.0	4.2	20.0
n-Butylbenzene	Ave	2.589	2.697		20.8	20.0	4.2	20.0
1,2-Dichlorobenzene	Ave	1.336	1.348	0.4000	20.2	20.0	0.9	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.492	2.489		20.0	20.0	-0.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0853	0.0722	0.0500	16.9	20.0	-15.3	50.0
1,3,5-Trichlorobenzene	Ave	1.060	1.081		20.4	20.0	2.0	20.0
1,2,4-Trichlorobenzene	Ave	0.8895	0.7903	0.2000	17.8	20.0	-11.1	20.0
Hexachlorobutadiene	Ave	0.3928	0.3674		18.7	20.0	-6.5	20.0
Naphthalene	Ave	1.641	1.200		14.6	20.0	-26.9	50.0
1,2,3-Trichlorobenzene	Ave	0.7279	0.5368		14.7	20.0	-26.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.2153	0.2022		47.0	50.0	-6.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2161	0.1957		45.3	50.0	-9.5	20.0
Toluene-d8 (Surr)	Ave	1.290	1.244		48.2	50.0	-3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722597/3 Calibration Date: 09/08/2020 19:49

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79481.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4048	0.3999		49.4	50.0	-1.2	20.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79481.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Sep-2020 19:49:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0116444-003
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub61

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 14:24:18 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: yallabg Date: 08-Sep-2020 20:32:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	81728	20.0	21.0	
6 Chloromethane	50	0.886	0.886	0.000	82	104199	20.0	19.2	
8 Butadiene	54	0.886	0.886	0.000	96	71331	20.0	19.7	
7 Vinyl chloride	62	0.893	0.893	0.000	98	79407	20.0	19.9	
9 Bromomethane	94	1.036	1.036	0.000	99	35712	20.0	31.0	
10 Chloroethane	64	1.093	1.093	0.000	99	44573	20.0	21.1	
11 Pentane	72	1.143	1.143	0.000	96	21643	40.0	57.4	
12 Trichlorofluoromethane	101	1.143	1.143	0.000	60	77756	20.0	21.4	
13 Dichlorofluoromethane	67	1.179	1.179	0.000	98	98794	20.0	20.2	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	97	89078	20.0	21.3	
15 Ethyl ether	59	1.294	1.294	0.000	92	34923	20.0	17.9	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	54606	20.0	21.0	
16 Ethanol	46	1.401	1.401	0.000	26	5610	800.0	771.6	a
19 Carbon disulfide	76	1.401	1.401	0.000	99	200029	20.0	19.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	93	55982	20.0	22.0	
22 Iodomethane	142	1.466	1.466	0.000	97	30242	20.0	7.35	
23 Cyclopentene	67	1.537	1.537	0.000	96	156046	20.0	21.7	
24 Acrolein	56	1.559	1.559	0.000	89	7405	40.0	43.5	
25 3-Chloro-1-propene	76	1.623	1.623	0.000	94	34032	20.0	20.5	
26 Isopropyl alcohol	45	1.645	1.645	0.000	97	11998	200.0	169.6	
27 Methylene Chloride	84	1.688	1.688	0.000	93	63514	20.0	20.3	
28 Acetone	43	1.709	1.709	0.000	88	37306	100.0	101.8	
29 trans-1,2-Dichloroethene	96	1.767	1.767	0.000	93	61644	20.0	20.7	
30 Methyl acetate	43	1.781	1.781	0.000	99	41533	40.0	48.6	
31 Hexane	86	1.817	1.817	0.000	91	16395	20.0	22.9	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	94	113390	20.0	18.6	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	87627	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	99	19088	200.0	199.1	
35 Acetonitrile	41	1.974	1.974	0.000	98	34375	200.0	196.2	
36 Isopropyl ether	45	2.046	2.046	0.000	98	182962	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	89	58206	20.0	21.4	
38 1,1-Dichloroethane	63	2.118	2.118	0.000	100	110610	20.0	20.0	
39 Acrylonitrile	53	2.146	2.146	0.000	95	129004	200.0	180.4	
40 Tert-butyl ethyl ether	59	2.268	2.268	0.000	89	144079	20.0	18.4	
41 Vinyl acetate	43	2.282	2.282	0.000	100	142046	40.0	33.5	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	66649	20.0	20.3	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	97	71768	20.0	19.2	
44 Cyclohexane	56	2.583	2.583	0.000	92	114907	20.0	20.8	
45 Chlorobromomethane	128	2.590	2.590	0.000	89	28927	20.0	20.1	
46 Chloroform	83	2.648	2.648	0.000	99	100357	20.0	20.3	
47 Carbon tetrachloride	117	2.734	2.734	0.000	97	65695	20.0	22.5	
48 Ethyl acetate	70	2.741	2.741	0.000	98	7462	40.0	51.1	
49 Methyl acrylate	55	2.748	2.748	0.000	77	25005	20.0	16.0	
50 Tetrahydrofuran	42	2.748	2.748	0.000	97	22168	40.0	43.5	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	116799	50.0	47.0	
52 1,1,1-Trichloroethane	97	2.777	2.777	0.000	97	83458	20.0	21.0	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	112681	250.0	250.0	
54 2-Butanone (MEK)	72	2.863	2.863	0.000	99	19342	100.0	117.5	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	97	87501	20.0	20.3	
56 Isooctane	57	2.956	2.956	0.000	99	187804	20.0	21.5	
57 n-Heptane	57	3.049	3.049	0.000	92	46178	20.0	21.6	
58 Benzene	78	3.049	3.049	0.000	97	261149	20.0	20.4	
59 Propionitrile	54	3.070	3.070	0.000	99	38964	200.0	209.6	
60 Methacrylonitrile	67	3.085	3.085	0.000	90	138188	200.0	174.2	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	113023	50.0	45.3	
62 Tert-amyl methyl ether	73	3.156	3.156	0.000	97	118319	20.0	18.1	
63 1,2-Dichloroethane	62	3.214	3.214	0.000	96	58835	20.0	18.2	
64 Isobutyl alcohol	43	3.278	3.278	0.000	95	20868	500.0	445.4	
65 t-Amyl alcohol	59	3.350	3.350	0.000	91	14613	200.0	192.2	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	577608	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	54959	20.0	15.0	
68 Methylcyclohexane	83	3.507	3.507	0.000	96	109951	20.0	21.6	
69 Trichloroethene	130	3.536	3.536	0.000	97	64402	20.0	20.7	
70 2-ethoxy-2-methyl butane	59	3.765	3.765	0.000	94	117256	20.0	18.2	
71 Dibromomethane	93	3.894	3.894	0.000	95	25477	20.0	18.3	
72 n-Butanol	56	3.915	3.915	0.000	87	10495	500.0	382.3	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	93	60328	20.0	19.3	
75 Dichlorobromomethane	83	4.059	4.059	0.000	99	66048	20.0	19.3	
74 Ethyl acrylate	55	4.066	4.066	0.000	98	33875	20.0	16.3	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	85	13500	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.252	0.000	91	16995	40.0	36.6	
78 1,4-Dioxane	88	4.266	4.266	0.000	48	5603	400.0	359.9	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	38049	20.0	16.2	M
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	95	6917	20.0	11.7	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	80775	20.0	19.3	
$ 82 Toluene-d8 (Surr)	98	4.883	4.883	0.000	99	509598	50.0	48.2	
83 Toluene	91	4.940	4.940	0.000	93	268075	20.0	20.6	
84 Epichlorohydrin	57	4.983	4.983	0.000	93	12352	400.0	313.4	
85 2-Nitropropane	41	5.191	5.191	0.000	97	9897	40.0	31.9	
86 Tetrachloroethene	166	5.355	5.355	0.000	98	65292	20.0	21.3	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.405	0.000	95	135219	100.0	116.0	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	95	63759	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	32740	20.0	18.5	
90 Ethyl methacrylate	69	5.692	5.692	0.000	89	44169	20.0	18.0	
91 Chlorodibromomethane	129	5.799	5.799	0.000	98	43075	20.0	18.8	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	94	70009	20.0	19.0	
93 Ethylene Dibromide	107	6.043	6.043	0.000	99	36558	20.0	19.2	
94 n-Butyl acetate	43	6.401	6.401	0.000	98	40853	20.0	16.5	
95 2-Hexanone	43	6.458	6.458	0.000	95	91382	100.0	116.8	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	409547	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	166711	20.0	20.5	
98 Ethylbenzene	106	6.831	6.831	0.000	98	96146	20.0	21.1	
99 1,1,1,2-Tetrachloroethane	131	6.852	6.852	0.000	95	51745	20.0	20.5	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	116513	20.0	21.8	
101 o-Xylene	106	7.626	7.626	0.000	95	113107	20.0	20.9	
102 Bromoform	173	7.690	7.690	0.000	96	23490	20.0	18.2	
103 Styrene	104	7.719	7.719	0.000	97	184523	20.0	21.3	
104 n-Butyl acrylate	73	8.049	8.049	0.000	97	25106	20.0	17.4	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	297612	20.0	21.2	
106 Amyl acetate (mixed isomers)	43	8.471	8.471	0.000	90	54473	20.0	16.7	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	93	163788	50.0	49.4	
108 Bromobenzene	156	8.586	8.586	0.000	96	70438	20.0	21.0	
109 N-Propylbenzene	91	8.743	8.743	0.000	100	355831	20.0	21.2	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	98	42929	20.0	18.5	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	235061	20.0	20.3	
112 4-Ethyltoluene	105	8.930	8.930	0.000	98	293183	20.0	21.0	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	12062	20.0	19.6	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	244354	20.0	21.0	
115 trans-1,4-Dichloro-2-butene	53	9.166	9.166	0.000	39	8807	20.0	19.8	a
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	210163	20.0	20.7	
117 tert-Butylbenzene	119	9.546	9.546	0.000	95	212267	20.0	21.1	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	246578	20.0	20.5	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	59675	20.0	18.5	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	321607	20.0	21.1	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	97	138148	20.0	20.9	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	272661	20.0	21.2	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	226879	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.248	0.000	97	139665	20.0	20.0	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	246177	20.0	20.2	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	95	232049	20.0	19.7	
127 Benzyl chloride	126	10.713	10.713	0.000	97	13084	20.0	18.6	
128 p-Diethylbenzene	119	10.728	10.728	0.000	94	135344	20.0	20.8	
129 n-Butylbenzene	91	10.814	10.814	0.000	98	244781	20.0	20.8	
130 1,2-Dichlorobenzene	146	10.914	10.914	0.000	97	122362	20.0	20.2	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	225836	20.0	20.0	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	94	6555	20.0	16.9	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	98092	20.0	20.4	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	71720	20.0	17.8	
135 Hexachlorobutadiene	225	12.841	12.841	0.000	97	33341	20.0	18.7	
136 Naphthalene	128	13.127	13.127	0.000	100	108885	20.0	14.6	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	48716	20.0	14.7	
S 138 1,2-Dichloroethene, Total	100				0		40.0	41.0	
S 139 1,3-Dichloropropene, Total	100				0		40.0	38.4	
S 140 Xylenes, Total	100				0		40.0	42.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 142 Total BTEX	1				0		100.0	104.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

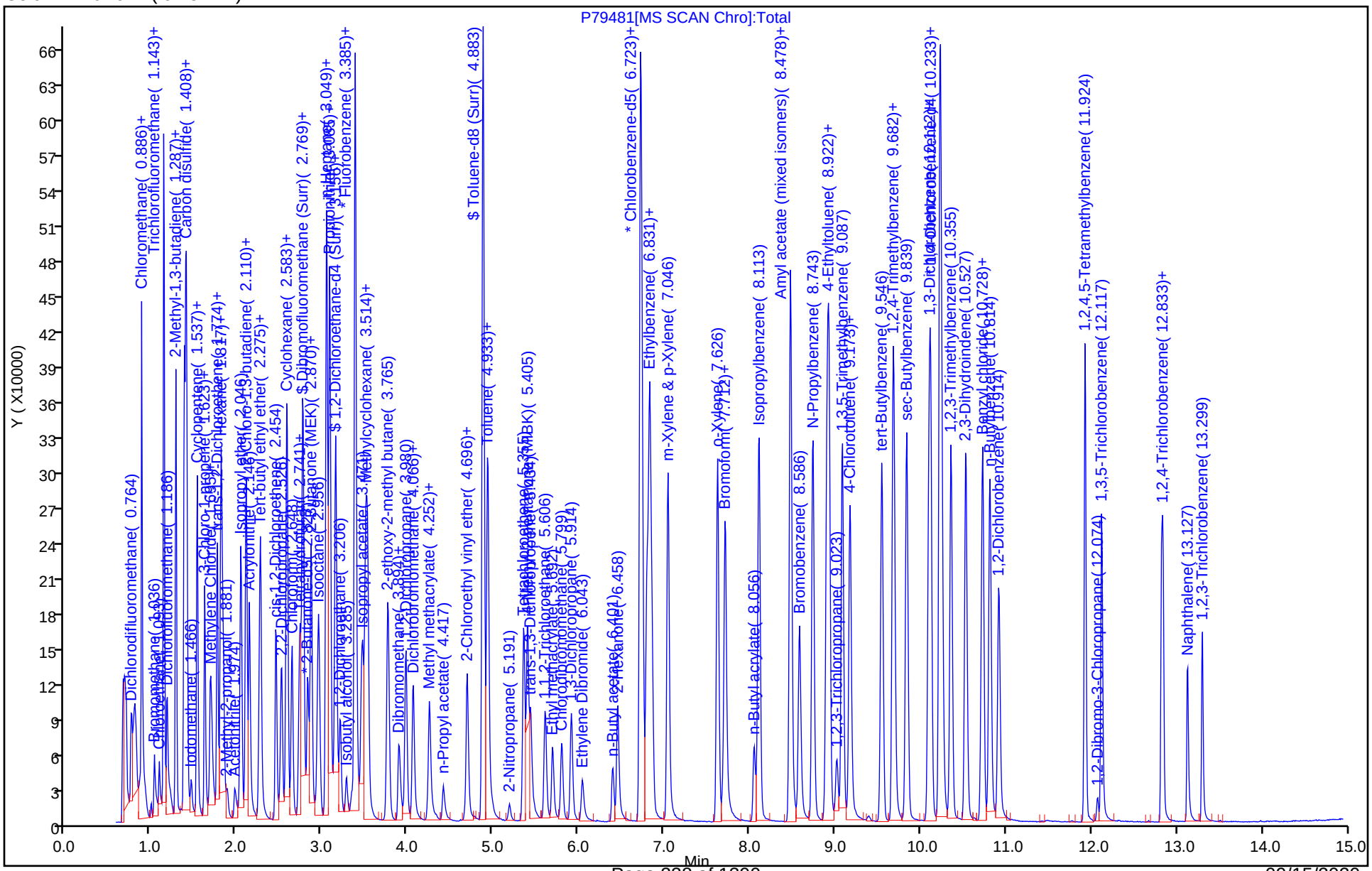
Report Date: 09-Sep-2020 14:24:21 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79481.D

Injection Date:	08-Sep-2020 19:49:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

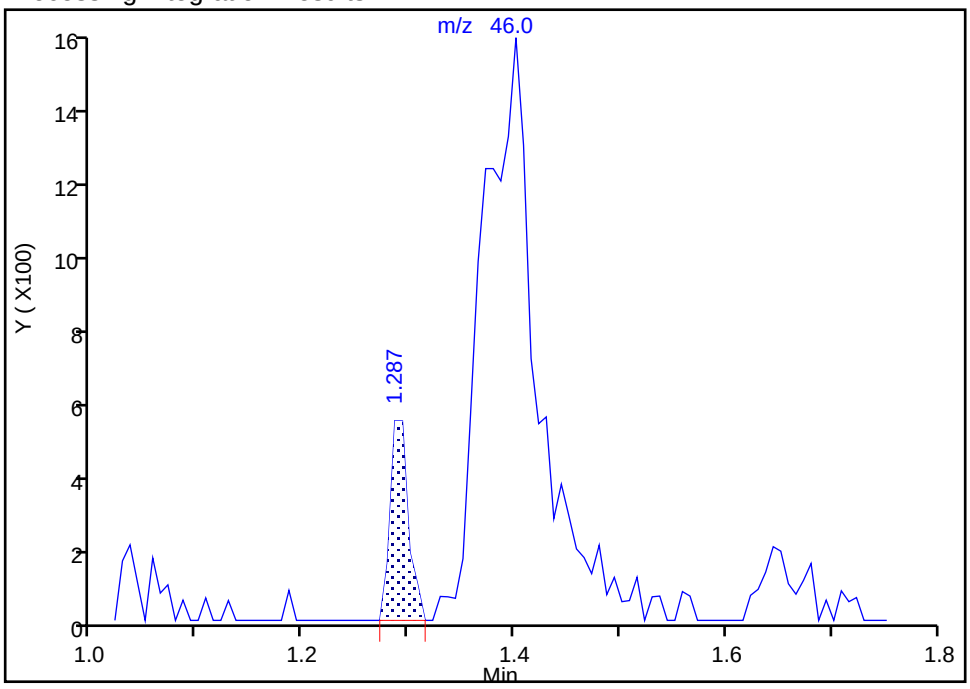
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79481.D
Injection Date: 08-Sep-2020 19:49:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

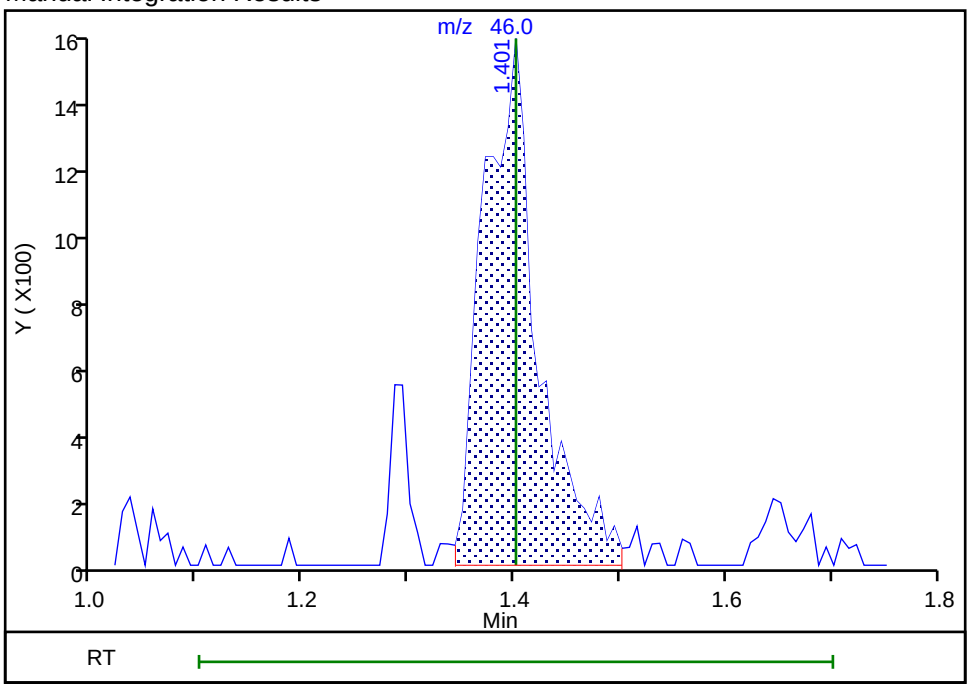
Processing Integration Results

RT: 1.29
Area: 644
Amount: 88.579689
Amount Units: ug/l



Manual Integration Results

RT: 1.40
Area: 5610
Amount: 771.6336
Amount Units: ug/l



Reviewer: sgroa, 08-Sep-2020 19:11:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

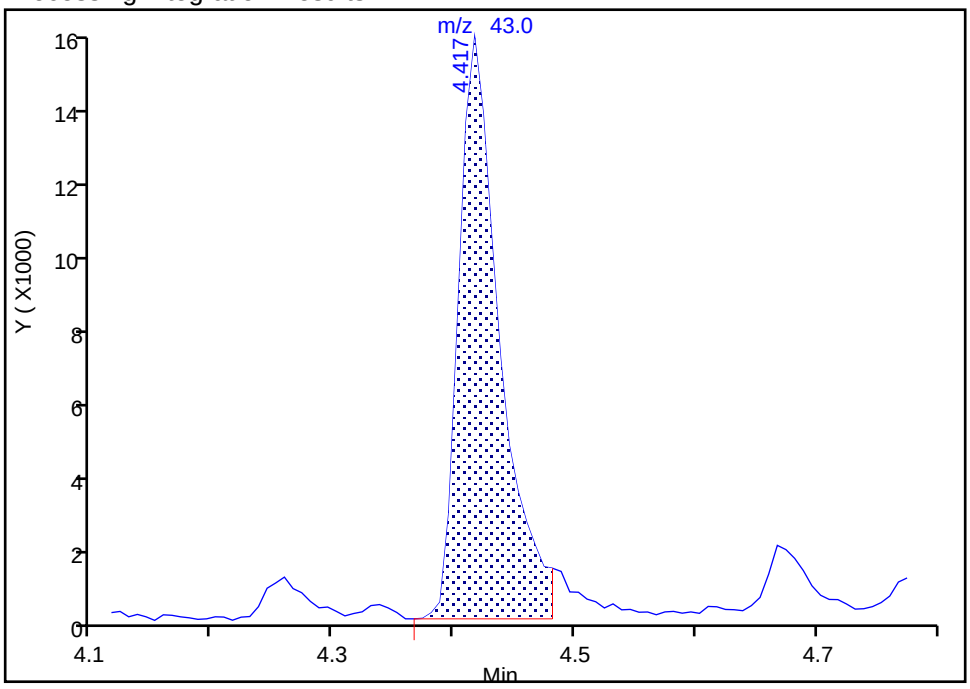
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79481.D
Injection Date: 08-Sep-2020 19:49:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 n-Propyl acetate, CAS: 109-60-4

Signal: 1

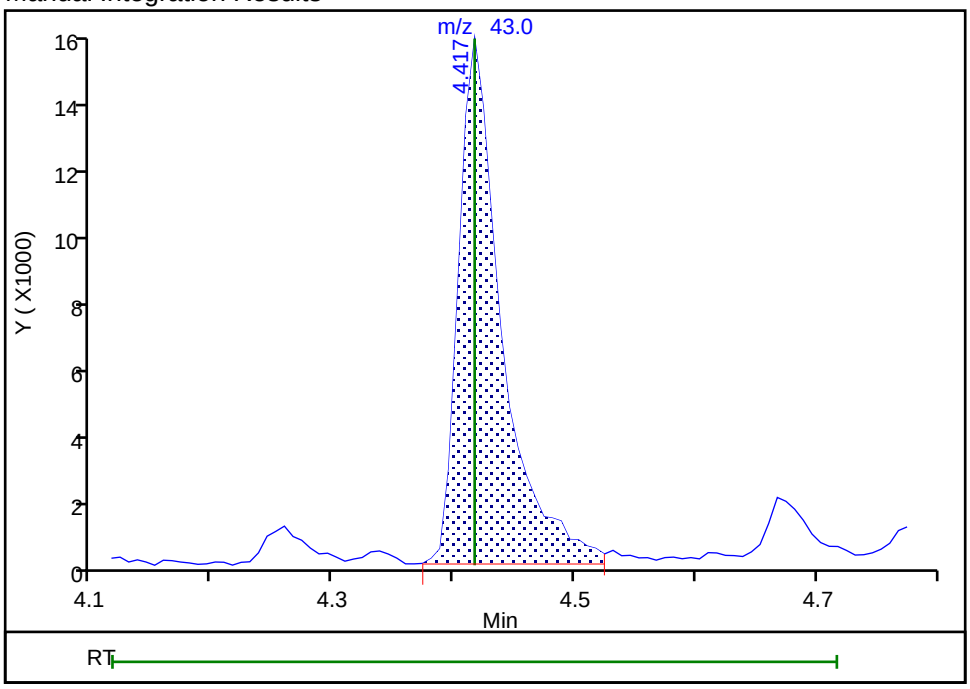
Processing Integration Results

RT: 4.42
Area: 36328
Amount: 15.470138
Amount Units: ug/l



Manual Integration Results

RT: 4.42
Area: 38049
Amount: 16.203019
Amount Units: ug/l



Reviewer: xuyvo, 09-Sep-2020 14:23:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

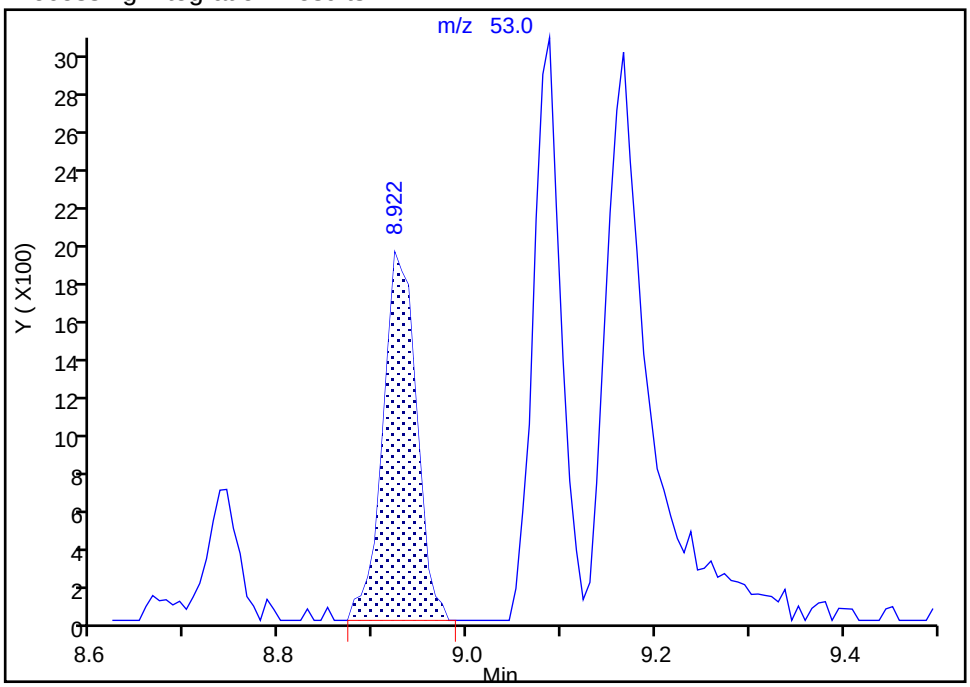
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79481.D
Injection Date: 08-Sep-2020 19:49:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

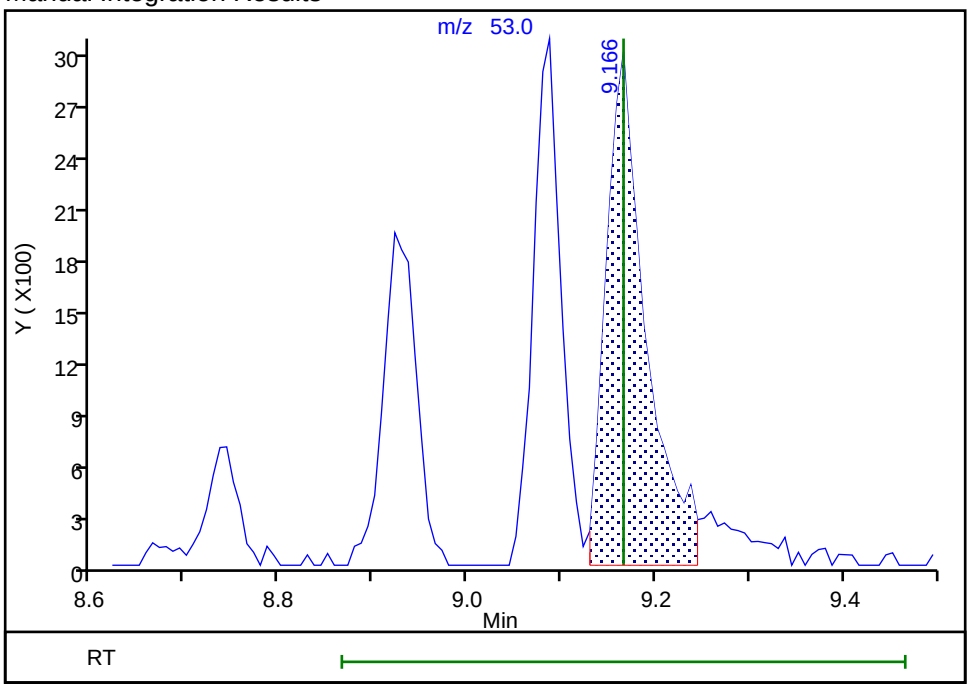
Processing Integration Results

RT: 8.92
Area: 4774
Amount: 10.746492
Amount Units: ug/l



Manual Integration Results

RT: 9.17
Area: 8807
Amount: 19.824959
Amount Units: ug/l



Reviewer: sgroa, 08-Sep-2020 19:14:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722709/3 Calibration Date: 09/09/2020 08:33

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79506.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3371	0.3620	0.1000	21.5	20.0	7.4	20.0
Butadiene	Ave	0.3132	0.2952		18.8	20.0	-5.8	20.0
Chloromethane	Ave	0.4706	0.4340	0.1000	18.4	20.0	-7.8	20.0
Vinyl chloride	Ave	0.3448	0.3287	0.1000	19.1	20.0	-4.7	20.0
Bromomethane	Ave	2.558	3.260	0.1000	25.5	20.0	27.4	50.0
Chloroethane	Ave	0.1832	0.1791	0.1000	19.6	20.0	-2.2	50.0
Pentane	Ave	4.304	5.370		49.9	40.0	24.8*	20.0
Trichlorofluoromethane	Ave	0.3147	0.3548	0.1000	22.6	20.0	12.8	20.0
Dichlorofluoromethane	Ave	0.4231	0.4116		19.5	20.0	-2.7	20.0
2-Methyl-1,3-butadiene	Ave	0.3621	0.3720		20.5	20.0	2.7	20.0
Ethyl ether	Ave	0.1689	0.1500		17.8	20.0	-11.2	20.0
1,1-Dichloroethene	Ave	0.2250	0.2331	0.1000	20.7	20.0	3.6	20.0
Carbon disulfide	Ave	0.8803	0.8519	0.1000	19.4	20.0	-3.2	50.0
Ethanol	Ave	0.0830	0.0754		727	800	-9.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2202	0.2420	0.1000	22.0	20.0	9.9	20.0
Iodomethane	QuaF		0.1608		9.03	20.0	-54.8*	20.0
Cyclopentene	Ave	0.6234	0.6755		21.7	20.0	8.3	20.0
Acrolein	Ave	1.943	1.549		31.9	40.0	-20.3	50.0
Allyl chloride	Ave	0.1438	0.1412		19.6	20.0	-1.8	20.0
Isopropyl alcohol	Ave	0.8071	0.6961		172	200	-13.8	50.0
Methylene Chloride	Ave	0.2712	0.2679	0.1000	19.8	20.0	-1.2	20.0
Acetone	QuaF		0.8383	0.0500	103	100	3.1	50.0
trans-1,2-Dichloroethene	Ave	0.2574	0.2634	0.1000	20.5	20.0	2.3	20.0
Methyl acetate	Ave	9.744	10.27	0.1000	42.2	40.0	5.4	20.0
Hexane	Ave	0.0621	0.0744		24.0	20.0	19.9	20.0
Methyl tert-butyl ether	Ave	0.5264	0.5083	0.1000	19.3	20.0	-3.4	20.0
2-Methyl-2-propanol	QuaF		1.080		197	200	-1.3	50.0
Acetonitrile	Ave	2.000	1.609		161	200	-19.5	20.0
Isopropyl ether	Ave	0.8239	0.7782		18.9	20.0	-5.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2359	0.2478		21.0	20.0	5.1	20.0
1,1-Dichloroethane	Ave	0.4778	0.4633	0.2000	19.4	20.0	-3.0	20.0
Acrylonitrile	Ave	0.0619	0.0578		187	200	-6.6	20.0
Tert-butyl ethyl ether	Ave	0.6791	0.6334		18.7	20.0	-6.7	20.0
Vinyl acetate	Ave	0.3676	0.3054		33.2	40.0	-16.9	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2812	0.1000	19.8	20.0	-1.2	20.0
2,2-Dichloropropane	Ave	0.3235	0.3080		19.0	20.0	-4.8	20.0
Cyclohexane	Ave	0.4784	0.4932	0.1000	20.6	20.0	3.1	50.0
Chlorobromomethane	Ave	0.1245	0.1240		19.9	20.0	-0.4	20.0
Chloroform	Ave	0.4283	0.4165	0.2000	19.4	20.0	-2.8	20.0
Carbon tetrachloride	Ave	0.2525	0.2835	0.1000	22.5	20.0	12.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722709/3 Calibration Date: 09/09/2020 08:33

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79506.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3240	0.4026		49.7	40.0	24.3*	20.0
Methyl acrylate	Ave	0.1349	0.1150		17.1	20.0	-14.7	20.0
Tetrahydrofuran	Ave	1.130	1.274		45.1	40.0	12.7	20.0
1,1,1-Trichloroethane	Ave	0.3442	0.3529	0.1000	20.5	20.0	2.5	20.0
2-Butanone (MEK)	Ave	0.3653	0.4374	0.0500	120	100	19.7	50.0
1,1-Dichloropropene	QuaF		0.3786		20.3	20.0	1.7	20.0
2,2,4-Trimethylpentane	Ave	0.7550	0.8178		21.7	20.0	8.3	20.0
n-Heptane	Ave	0.1853	0.2021		21.8	20.0	9.1	20.0
Benzene	Ave	1.561	1.536	0.5000	19.7	20.0	-1.6	20.0
Propionitrile	Ave	2.122	2.080		196	200	-2.0	20.0
Methacrylonitrile	Ave	0.0687	0.0644		188	200	-6.2	20.0
Tert-amyl methyl ether	Ave	0.5651	0.5484		19.4	20.0	-3.0	20.0
1,2-Dichloroethane	Ave	0.2794	0.2558	0.1000	18.3	20.0	-8.4	20.0
Isobutyl alcohol	Ave	0.5347	0.4720		441	500	-11.7	50.0
Isopropyl acetate	Ave	0.3173	0.2560		16.1	20.0	-19.3	20.0
Methylcyclohexane	Ave	0.4413	0.4827	0.1000	21.9	20.0	9.4	50.0
Trichloroethene	Ave	0.2699	0.2798	0.2000	20.7	20.0	3.6	20.0
Dibromomethane	Ave	0.1204	0.1140		18.9	20.0	-5.3	20.0
n-Butanol	QuaF		0.2513		381	500	-23.8	50.0
1,2-Dichloropropane	Ave	0.2703	0.2581	0.1000	19.1	20.0	-4.5	20.0
Dichlorobromomethane	Ave	0.2965	0.2831	0.2000	19.1	20.0	-4.5	20.0
Ethyl acrylate	Qua2		0.1599		17.7	20.0	-11.3	20.0
Methyl methacrylate	Ave	0.0402	0.0405		40.3	40.0	0.8	20.0
1,4-Dioxane	Ave	1.153	1.085		376	400	-6.0	50.0
n-Propyl acetate	Ave	0.2033	0.1744		17.2	20.0	-14.2	20.0
2-Chloroethyl vinyl ether	Ave	0.0511	0.0269		10.5	20.0	-47.5*	20.0
cis-1,3-Dichloropropene	Ave	0.5114	0.4745	0.2000	18.6	20.0	-7.2	50.0
Toluene	Ave	1.586	1.610	0.4000	20.3	20.0	1.5	20.0
Epichlorohydrin	QuaF		0.0770		351	400	-12.2	20.0
2-Nitropropane	Ave	0.0268	0.0226		33.8	40.0	-15.6	20.0
Tetrachloroethene	Ave	0.3736	0.4032	0.2000	21.6	20.0	7.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.586	3.156	0.0500	122	100	22.0	50.0
trans-1,3-Dichloropropene	Ave	0.4064	0.3938	0.1000	19.4	20.0	-3.1	50.0
1,1,2-Trichloroethane	Ave	0.2163	0.2031	0.1000	18.8	20.0	-6.1	20.0
Ethyl methacrylate	Ave	0.2123	0.2003		18.9	20.0	-5.7	20.0
Chlorodibromomethane	Ave	0.2791	0.2634	0.1000	18.9	20.0	-5.6	50.0
1,3-Dichloropropane	Ave	0.4502	0.4290		19.1	20.0	-4.7	20.0
Ethylene Dibromide	Ave	0.2324	0.2248	0.1000	19.4	20.0	-3.2	20.0
n-Butyl acetate	Qua2		0.2551		16.9	20.0	-15.7	20.0
2-Hexanone	Ave	1.736	2.142	0.0500	123	100	23.4	50.0
Chlorobenzene	Ave	0.9935	1.003	0.5000	20.2	20.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722709/3 Calibration Date: 09/09/2020 08:33

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79506.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylbenzene	Ave	0.5568	0.5790	0.1000	20.8	20.0	4.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3075	0.3121		20.3	20.0	1.5	20.0
m-Xylene & p-Xylene	Ave	0.6531	0.7044	0.1000	21.6	20.0	7.9	20.0
o-Xylene	Ave	0.6608	0.6688	0.3000	20.2	20.0	1.2	20.0
Bromoform	Ave	0.1577	0.1485	0.1000	18.8	20.0	-5.8	20.0
Styrene	Ave	1.057	1.080	0.3000	20.4	20.0	2.1	20.0
n-Butyl acrylate	Qua2		0.1590		18.0	20.0	-9.9	20.0
Isopropylbenzene	Ave	1.714	1.781	0.1000	20.8	20.0	3.9	20.0
Amyl acetate (mixed isomers)	Qua2		0.6248		17.4	20.0	-13.1	20.0
Bromobenzene	Ave	0.7390	0.7622		20.6	20.0	3.1	20.0
N-Propylbenzene	Ave	3.698	3.791		20.5	20.0	2.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5126	0.4836	0.3000	18.9	20.0	-5.7	20.0
2-Chlorotoluene	Ave	2.548	2.465		19.3	20.0	-3.3	20.0
4-Ethyltoluene	Ave	3.072	3.158		20.6	20.0	2.8	20.0
1,2,3-Trichloropropane	Ave	0.1356	0.1324		19.5	20.0	-2.3	20.0
1,3,5-Trimethylbenzene	Ave	2.564	2.613		20.4	20.0	1.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0979	0.1015		20.7	20.0	3.7	20.0
4-Chlorotoluene	Ave	2.239	2.233		19.9	20.0	-0.3	20.0
tert-Butylbenzene	Ave	2.217	2.297		20.7	20.0	3.6	20.0
1,2,4-Trimethylbenzene	Ave	2.645	2.677		20.2	20.0	1.2	20.0
Butyl Methacrylate	Qua2		0.6558		18.5	20.0	-7.7	20.0
sec-Butylbenzene	Ave	3.367	3.461		20.6	20.0	2.8	20.0
1,3-Dichlorobenzene	Ave	1.460	1.502	0.6000	20.6	20.0	2.9	20.0
4-Isopropyltoluene	Ave	2.840	2.957		20.8	20.0	4.1	20.0
1,4-Dichlorobenzene	Ave	1.537	1.552	0.5000	20.2	20.0	1.0	20.0
1,2,3-Trimethylbenzene	Ave	2.680	2.642		19.7	20.0	-1.4	20.0
Indan	Ave	2.600	2.575		19.8	20.0	-1.0	20.0
Benzyl chloride	Qua2		0.1519		19.6	20.0	-2.2	50.0
p-Diethylbenzene	Ave	1.431	1.450		20.3	20.0	1.3	20.0
n-Butylbenzene	Ave	2.589	2.679		20.7	20.0	3.5	20.0
1,2-Dichlorobenzene	Ave	1.336	1.347	0.4000	20.2	20.0	0.8	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.492	2.498		20.0	20.0	0.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0853	0.0765	0.0500	17.9	20.0	-10.3	50.0
1,3,5-Trichlorobenzene	Ave	1.060	1.097		20.7	20.0	3.5	20.0
1,2,4-Trichlorobenzene	Ave	0.8895	0.8311	0.2000	18.7	20.0	-6.6	20.0
Hexachlorobutadiene	Ave	0.3928	0.3770		19.2	20.0	-4.0	20.0
Naphthalene	Ave	1.641	1.315		16.0	20.0	-19.9	50.0
1,2,3-Trichlorobenzene	Ave	0.7279	0.5904		16.2	20.0	-18.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2153	0.2007		46.6	50.0	-6.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2161	0.1976		45.7	50.0	-8.6	20.0
Toluene-d8 (Surr)	Ave	1.290	1.236		47.9	50.0	-4.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722709/3 Calibration Date: 09/09/2020 08:33

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79506.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4048	0.4120		50.9	50.0	1.8	20.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79506.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Sep-2020 08:33:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0116470-003
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub61

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 11:14:21 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: moroneyc Date: 09-Sep-2020 08:07:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	82139	20.0	21.5	
6 Chloromethane	50	0.885	0.885	0.000	93	98479	20.0	18.4	
8 Butadiene	54	0.885	0.885	0.000	96	66983	20.0	18.8	
7 Vinyl chloride	62	0.893	0.893	0.000	97	74590	20.0	19.1	
9 Bromomethane	94	1.036	1.036	0.000	99	29771	20.0	25.5	
10 Chloroethane	64	1.093	1.093	0.000	99	40640	20.0	19.6	
11 Pentane	72	1.143	1.143	0.000	96	21648	40.0	49.9	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	61	80505	20.0	22.6	
13 Dichlorofluoromethane	67	1.179	1.179	0.000	99	93396	20.0	19.5	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	96	84407	20.0	20.5	
15 Ethyl ether	59	1.294	1.294	0.000	96	34044	20.0	17.8	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	52896	20.0	20.7	
16 Ethanol	46	1.401	1.401	0.000	24	6083	800.0	727.5	
19 Carbon disulfide	76	1.401	1.401	0.000	99	193293	20.0	19.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	88	54913	20.0	22.0	
22 Iodomethane	142	1.466	1.466	0.000	97	36483	20.0	9.03	
23 Cyclopentene	67	1.537	1.537	0.000	96	153264	20.0	21.7	
24 Acrolein	56	1.559	1.559	0.000	90	6243	40.0	31.9	
25 3-Chloro-1-propene	76	1.623	1.623	0.000	94	32049	20.0	19.6	
26 Isopropyl alcohol	45	1.652	1.652	0.000	97	14032	200.0	172.5	
27 Methylene Chloride	84	1.688	1.688	0.000	91	60786	20.0	19.8	
28 Acetone	43	1.709	1.709	0.000	87	38273	100.0	103.1	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	94	59777	20.0	20.5	
30 Methyl acetate	43	1.781	1.781	0.000	99	41414	40.0	42.2	
31 Hexane	86	1.817	1.817	0.000	91	16893	20.0	24.0	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	96	115327	20.0	19.3	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	100786	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	99	21764	200.0	197.3	
35 Acetonitrile	41	1.974	1.974	0.000	100	32428	200.0	160.9	
36 Isopropyl ether	45	2.046	2.046	0.000	97	176581	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	89	56235	20.0	21.0	
38 1,1-Dichloroethane	63	2.117	2.117	0.000	100	105130	20.0	19.4	
39 Acrylonitrile	53	2.146	2.146	0.000	92	131189	200.0	186.8	
40 Tert-butyl ethyl ether	59	2.268	2.268	0.000	89	143713	20.0	18.7	
41 Vinyl acetate	43	2.282	2.282	0.000	99	138585	40.0	33.2	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	63808	20.0	19.8	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	69879	20.0	19.0	
44 Cyclohexane	56	2.583	2.583	0.000	91	111911	20.0	20.6	
45 Chlorobromomethane	128	2.590	2.590	0.000	88	28133	20.0	19.9	
46 Chloroform	83	2.648	2.648	0.000	99	94499	20.0	19.4	
47 Carbon tetrachloride	117	2.733	2.733	0.000	98	64332	20.0	22.5	
48 Ethyl acetate	70	2.741	2.741	0.000	99	7353	40.0	49.7	
49 Methyl acrylate	55	2.748	2.748	0.000	80	26102	20.0	17.1	
50 Tetrahydrofuran	42	2.755	2.755	0.000	95	23267	40.0	45.1	
52 1,1,1-Trichloroethane	97	2.776	2.776	0.000	98	80083	20.0	20.5	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	113863	50.0	46.6	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	114143	250.0	250.0	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	96	85896	20.0	20.3	
54 2-Butanone (MEK)	72	2.862	2.862	0.000	99	19969	100.0	119.7	
56 Isooctane	57	2.956	2.956	0.000	99	185575	20.0	21.7	
57 n-Heptane	57	3.049	3.049	0.000	96	45862	20.0	21.8	
58 Benzene	78	3.056	3.056	0.000	95	249640	20.0	19.7	
59 Propionitrile	54	3.070	3.070	0.000	96	41929	200.0	196.1	
60 Methacrylonitrile	67	3.092	3.092	0.000	91	146048	200.0	187.5	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	112065	50.0	45.7	
62 Tert-amyl methyl ether	73	3.156	3.156	0.000	99	124443	20.0	19.4	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	97	58048	20.0	18.3	
64 Isobutyl alcohol	43	3.285	3.285	0.000	95	23783	500.0	441.3	
65 t-Amyl alcohol	59	3.349	3.349	0.000	93	16755	200.0	191.6	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	567265	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	58093	20.0	16.1	
68 Methylcyclohexane	83	3.507	3.507	0.000	96	109523	20.0	21.9	
69 Trichloroethene	130	3.536	3.536	0.000	96	63478	20.0	20.7	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	95	117552	20.0	18.6	
71 Dibromomethane	93	3.894	3.894	0.000	95	25871	20.0	18.9	
72 n-Butanol	56	3.908	3.908	0.000	90	12665	500.0	381.0	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	58568	20.0	19.1	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	64234	20.0	19.1	
74 Ethyl acrylate	55	4.066	4.066	0.000	98	36287	20.0	17.7	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	86	14807	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.259	0.000	91	18400	40.0	40.3	
78 1,4-Dioxane	88	4.266	4.266	0.000	36	6424	400.0	376.2	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	39567	20.0	17.2	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	95	6108	20.0	10.5	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	77087	20.0	18.6	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	502090	50.0	47.9	
83 Toluene	91	4.940	4.940	0.000	93	261504	20.0	20.3	
84 Epichlorohydrin	57	4.983	4.983	0.000	97	14055	400.0	351.1	
85 2-Nitropropane	41	5.190	5.190	0.000	97	10278	40.0	33.8	
86 Tetrachloroethene	166	5.355	5.355	0.000	98	65514	20.0	21.6	
87 4-Methyl-2-pentanone (MIBK)	43	5.398	5.398	0.000	96	144093	100.0	122.0	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	99	63985	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	33000	20.0	18.8	
90 Ethyl methacrylate	69	5.692	5.692	0.000	90	45440	20.0	18.9	
91 Chlorodibromomethane	129	5.806	5.806	0.000	98	42788	20.0	18.9	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	93	69698	20.0	19.1	
93 Ethylene Dibromide	107	6.043	6.043	0.000	100	36531	20.0	19.4	
94 n-Butyl acetate	43	6.401	6.401	0.000	98	41440	20.0	16.9	
95 2-Hexanone	43	6.458	6.458	0.000	93	97808	100.0	123.4	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	406183	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	96	162967	20.0	20.2	
98 Ethylbenzene	106	6.831	6.831	0.000	98	94065	20.0	20.8	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	96	50713	20.0	20.3	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	114449	20.0	21.6	
101 o-Xylene	106	7.626	7.626	0.000	95	108669	20.0	20.2	
102 Bromoform	173	7.690	7.690	0.000	96	24123	20.0	18.8	
103 Styrene	104	7.712	7.712	0.000	96	175451	20.0	20.4	
104 n-Butyl acrylate	73	8.056	8.056	0.000	99	25839	20.0	18.0	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	289348	20.0	20.8	
106 Amyl acetate (mixed isomers)	43	8.464	8.464	0.000	91	56159	20.0	17.4	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	94	167335	50.0	50.9	
108 Bromobenzene	156	8.586	8.586	0.000	95	68505	20.0	20.6	
109 N-Propylbenzene	91	8.736	8.736	0.000	99	340723	20.0	20.5	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	98	43462	20.0	18.9	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	221568	20.0	19.3	
112 4-Ethyltoluene	105	8.929	8.929	0.000	98	283854	20.0	20.6	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	11902	20.0	19.5	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	234819	20.0	20.4	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.159	0.000	86	9122	20.0	20.7	
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	200748	20.0	19.9	
117 tert-Butylbenzene	119	9.546	9.546	0.000	96	206433	20.0	20.7	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	240623	20.0	20.2	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	58946	20.0	18.5	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	311099	20.0	20.6	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	134977	20.0	20.6	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	265791	20.0	20.8	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	93	224702	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.247	10.247	0.000	96	139502	20.0	20.2	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	237501	20.0	19.7	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	231458	20.0	19.8	
127 Benzyl chloride	126	10.706	10.706	0.000	97	13656	20.0	19.6	
128 p-Diethylbenzene	119	10.727	10.727	0.000	94	130357	20.0	20.3	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	240770	20.0	20.7	
130 1,2-Dichlorobenzene	146	10.921	10.921	0.000	98	121047	20.0	20.2	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	97	224530	20.0	20.0	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	92	6878	20.0	17.9	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	98570	20.0	20.7	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	74697	20.0	18.7	
135 Hexachlorobutadiene	225	12.841	12.841	0.000	97	33889	20.0	19.2	
136 Naphthalene	128	13.127	13.127	0.000	99	118177	20.0	16.0	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	96	53065	20.0	16.2	
S 138 1,2-Dichloroethene, Total	100				0		40.0	40.2	
S 139 1,3-Dichloropropene, Total	100				0		40.0	37.9	
S 140 Xylenes, Total	100				0		40.0	41.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 142 Total BTEX	1				0		100.0	102.6	

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 11:14:24 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79506.D

Injection Date: 09-Sep-2020 08:33:30 Instrument ID: CVOAMS13 Operator ID:

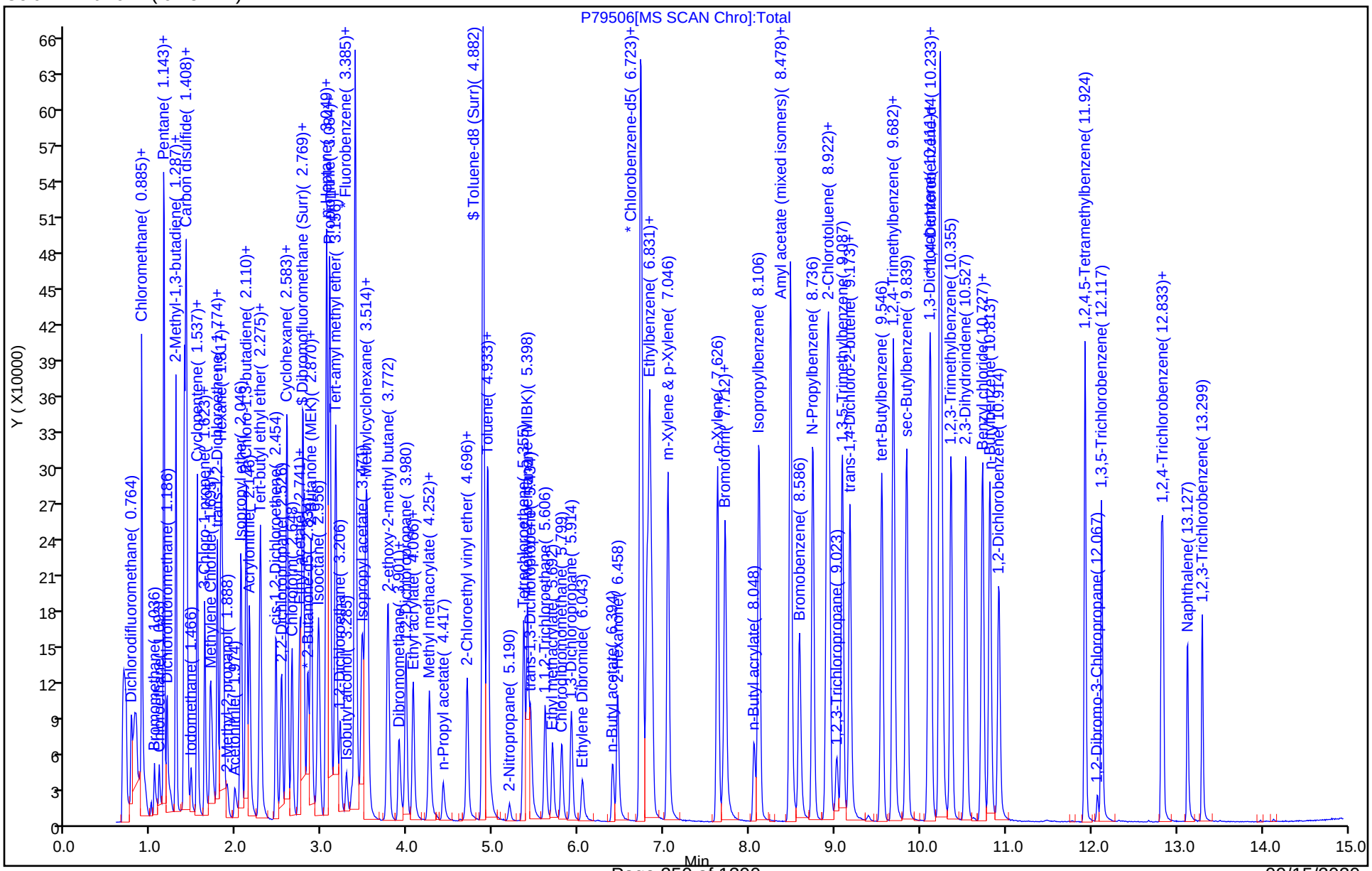
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722834/4 Calibration Date: 09/09/2020 19:04

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79533.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3371	0.2753	0.1000	16.3	20.0	-18.3	20.0
Butadiene	Ave	0.3132	0.2685		17.1	20.0	-14.3	20.0
Chloromethane	Ave	0.4706	0.4013	0.1000	17.1	20.0	-14.7	20.0
Vinyl chloride	Ave	0.3448	0.3099	0.1000	18.0	20.0	-10.1	20.0
Bromomethane	Ave	2.558	3.678	0.1000	28.7	20.0	43.7	50.0
Chloroethane	Ave	0.1832	0.1759	0.1000	19.2	20.0	-4.0	50.0
Pentane	Ave	4.304	5.203		48.4	40.0	20.9*	20.0
Trichlorofluoromethane	Ave	0.3147	0.3210	0.1000	20.4	20.0	2.0	20.0
Dichlorofluoromethane	Ave	0.4231	0.4019		19.0	20.0	-5.0	20.0
2-Methyl-1,3-butadiene	Ave	0.3621	0.3579		19.8	20.0	-1.2	20.0
Ethyl ether	Ave	0.1689	0.1553		18.4	20.0	-8.0	20.0
1,1-Dichloroethene	Ave	0.2250	0.2340	0.1000	20.8	20.0	4.0	20.0
Carbon disulfide	Ave	0.8803	0.8379	0.1000	19.0	20.0	-4.8	50.0
Ethanol	Ave	0.0830	0.0973		938	800	17.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2202	0.2318	0.1000	21.1	20.0	5.3	20.0
Iodomethane	QuaF		0.2057		11.6	20.0	-42.2*	20.0
Cyclopentene	Ave	0.6234	0.6507		20.9	20.0	4.4	20.0
Acrolein	Ave	1.943	1.482		30.5	40.0	-23.7	50.0
Allyl chloride	Ave	0.1438	0.1447		20.1	20.0	0.6	20.0
Isopropyl alcohol	Ave	0.8071	0.7834		194	200	-2.9	50.0
Methylene Chloride	Ave	0.2712	0.2825	0.1000	20.8	20.0	4.1	20.0
Acetone	QuaF		0.9353	0.0500	115	100	15.2	50.0
trans-1,2-Dichloroethene	Ave	0.2574	0.2731	0.1000	21.2	20.0	6.1	20.0
Methyl acetate	Ave	9.744	11.13	0.1000	45.7	40.0	14.2	20.0
Hexane	Ave	0.0621	0.0692		22.3	20.0	11.5	20.0
Methyl tert-butyl ether	Ave	0.5264	0.5397	0.1000	20.5	20.0	2.5	20.0
2-Methyl-2-propanol	QuaF		1.251		229	200	14.3	50.0
Acetonitrile	Ave	2.000	1.783		178	200	-10.8	20.0
Isopropyl ether	Ave	0.8239	0.7703		18.7	20.0	-6.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2359	0.2434		20.6	20.0	3.2	20.0
1,1-Dichloroethane	Ave	0.4778	0.4742	0.2000	19.9	20.0	-0.7	20.0
Acrylonitrile	Ave	0.0619	0.0603		195	200	-2.6	20.0
Tert-butyl ethyl ether	Ave	0.6791	0.6511		19.2	20.0	-4.1	20.0
Vinyl acetate	Ave	0.3676	0.3089		33.6	40.0	-16.0	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2915	0.1000	20.5	20.0	2.4	20.0
2,2-Dichloropropane	Ave	0.3235	0.3157		19.5	20.0	-2.4	20.0
Cyclohexane	Ave	0.4784	0.4665	0.1000	19.5	20.0	-2.5	50.0
Chlorobromomethane	Ave	0.1245	0.1316		21.1	20.0	5.7	20.0
Chloroform	Ave	0.4283	0.4303	0.2000	20.1	20.0	0.5	20.0
Carbon tetrachloride	Ave	0.2525	0.2850	0.1000	22.6	20.0	12.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722834/4 Calibration Date: 09/09/2020 19:04

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79533.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3240	0.4478		55.3	40.0	38.2*	20.0
Methyl acrylate	Ave	0.1349	0.1206		17.9	20.0	-10.6	20.0
Tetrahydrofuran	Ave	1.130	1.358		48.0	40.0	20.1*	20.0
1,1,1-Trichloroethane	Ave	0.3442	0.3535	0.1000	20.5	20.0	2.7	20.0
2-Butanone (MEK)	Ave	0.3653	0.4841	0.0500	133	100	32.5	50.0
1,1-Dichloropropene	QuaF		0.3835		20.6	20.0	3.0	20.0
2,2,4-Trimethylpentane	Ave	0.7550	0.7794		20.6	20.0	3.2	20.0
Benzene	Ave	1.561	1.524	0.5000	19.5	20.0	-2.4	20.0
n-Heptane	Ave	0.1853	0.1921		20.7	20.0	3.6	20.0
Propionitrile	Ave	2.122	2.288		216	200	7.9	20.0
Methacrylonitrile	Ave	0.0687	0.0663		193	200	-3.4	20.0
Tert-amyl methyl ether	Ave	0.5651	0.5395		19.1	20.0	-4.5	20.0
1,2-Dichloroethane	Ave	0.2794	0.2703	0.1000	19.3	20.0	-3.3	20.0
Isobutyl alcohol	Ave	0.5347	0.5034		471	500	-5.9	50.0
Isopropyl acetate	Ave	0.3173	0.2643		16.7	20.0	-16.7	20.0
Methylcyclohexane	Ave	0.4413	0.4392	0.1000	19.9	20.0	-0.5	50.0
Trichloroethene	Ave	0.2699	0.2893	0.2000	21.4	20.0	7.2	20.0
Dibromomethane	Ave	0.1204	0.1218		20.2	20.0	1.2	20.0
n-Butanol	QuaF		0.3020		457	500	-8.5	50.0
1,2-Dichloropropane	Ave	0.2703	0.2572	0.1000	19.0	20.0	-4.8	20.0
Dichlorobromomethane	Ave	0.2965	0.3014	0.2000	20.3	20.0	1.7	20.0
Ethyl acrylate	Qua2		0.1650		18.3	20.0	-8.6	20.0
Methyl methacrylate	Ave	0.0402	0.0430		42.7	40.0	6.9	20.0
1,4-Dioxane	Ave	1.153	1.411		489	400	22.4	50.0
n-Propyl acetate	Ave	0.2033	0.1768		17.4	20.0	-13.0	20.0
2-Chloroethyl vinyl ether	Ave	0.0511	0.0337		13.2	20.0	-34.2*	20.0
cis-1,3-Dichloropropene	Ave	0.5114	0.4916	0.2000	19.2	20.0	-3.9	50.0
Toluene	Ave	1.586	1.611	0.4000	20.3	20.0	1.6	20.0
Epichlorohydrin	QuaF		0.0920		418	400	4.4	20.0
2-Nitropropane	Ave	0.0268	0.0240		35.8	40.0	-10.4	20.0
Tetrachloroethene	Ave	0.3736	0.3902	0.2000	20.9	20.0	4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.586	3.265	0.0500	126	100	26.3	50.0
trans-1,3-Dichloropropene	Ave	0.4064	0.3860	0.1000	19.0	20.0	-5.0	50.0
1,1,2-Trichloroethane	Ave	0.2163	0.2091	0.1000	19.3	20.0	-3.3	20.0
Ethyl methacrylate	Ave	0.2123	0.2130		20.1	20.0	0.3	20.0
Chlorodibromomethane	Ave	0.2791	0.2731	0.1000	19.6	20.0	-2.1	50.0
1,3-Dichloropropane	Ave	0.4502	0.4297		19.1	20.0	-4.6	20.0
Ethylene Dibromide	Ave	0.2324	0.2334	0.1000	20.1	20.0	0.4	20.0
n-Butyl acetate	Qua2		0.2497		16.5	20.0	-17.4	20.0
2-Hexanone	Ave	1.736	2.271	0.0500	131	100	30.8	50.0
Chlorobenzene	Ave	0.9935	1.026	0.5000	20.6	20.0	3.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722834/4 Calibration Date: 09/09/2020 19:04

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79533.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylbenzene	Ave	0.5568	0.5844	0.1000	21.0	20.0	4.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3075	0.3082		20.0	20.0	0.2	20.0
m-Xylene & p-Xylene	Ave	0.6531	0.6990	0.1000	21.4	20.0	7.0	20.0
o-Xylene	Ave	0.6608	0.6669	0.3000	20.2	20.0	0.9	20.0
Bromoform	Ave	0.1577	0.1545	0.1000	19.6	20.0	-2.0	20.0
Styrene	Ave	1.057	1.110	0.3000	21.0	20.0	5.0	20.0
n-Butyl acrylate	Qua2		0.1609		18.2	20.0	-8.9	20.0
Isopropylbenzene	Ave	1.714	1.790	0.1000	20.9	20.0	4.4	20.0
Amyl acetate (mixed isomers)	Qua2		0.6416		17.8	20.0	-10.9	20.0
Bromobenzene	Ave	0.7390	0.7878		21.3	20.0	6.6	20.0
N-Propylbenzene	Ave	3.698	3.793		20.5	20.0	2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5126	0.4958	0.3000	19.3	20.0	-3.3	20.0
2-Chlorotoluene	Ave	2.548	2.509		19.7	20.0	-1.5	20.0
4-Ethyltoluene	Ave	3.072	3.177		20.7	20.0	3.4	20.0
1,2,3-Trichloropropane	Ave	0.1356	0.1389		20.5	20.0	2.4	20.0
1,3,5-Trimethylbenzene	Ave	2.564	2.637		20.6	20.0	2.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0979	0.1040		21.2	20.0	6.2	20.0
4-Chlorotoluene	Ave	2.239	2.285		20.4	20.0	2.0	20.0
tert-Butylbenzene	Ave	2.217	2.292		20.7	20.0	3.4	20.0
1,2,4-Trimethylbenzene	Ave	2.645	2.674		20.2	20.0	1.1	20.0
Butyl Methacrylate	Qua2		0.6789		19.1	20.0	-4.5	20.0
sec-Butylbenzene	Ave	3.367	3.434		20.4	20.0	2.0	20.0
1,3-Dichlorobenzene	Ave	1.460	1.549	0.6000	21.2	20.0	6.1	20.0
4-Isopropyltoluene	Ave	2.840	2.939		20.7	20.0	3.5	20.0
1,4-Dichlorobenzene	Ave	1.537	1.608	0.5000	20.9	20.0	4.6	20.0
1,2,3-Trimethylbenzene	Ave	2.680	2.726		20.3	20.0	1.7	20.0
Indan	Ave	2.600	2.628		20.2	20.0	1.1	20.0
Benzyl chloride	Qua2		0.1551		19.9	20.0	-0.3	50.0
p-Diethylbenzene	Ave	1.431	1.455		20.3	20.0	1.7	20.0
n-Butylbenzene	Ave	2.589	2.609		20.2	20.0	0.8	20.0
1,2-Dichlorobenzene	Ave	1.336	1.376	0.4000	20.6	20.0	3.0	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.492	2.531		20.3	20.0	1.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0853	0.0851	0.0500	20.0	20.0	-0.2	50.0
1,3,5-Trichlorobenzene	Ave	1.060	1.122		21.2	20.0	5.9	20.0
1,2,4-Trichlorobenzene	Ave	0.8895	0.8811	0.2000	19.8	20.0	-0.9	20.0
Hexachlorobutadiene	Ave	0.3928	0.3883		19.8	20.0	-1.1	20.0
Naphthalene	Ave	1.641	1.456		17.7	20.0	-11.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7279	0.6595		18.1	20.0	-9.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2153	0.2197		51.0	50.0	2.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2161	0.2064		47.7	50.0	-4.5	20.0
Toluene-d8 (Surr)	Ave	1.290	1.273		49.3	50.0	-1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVIS 460-722834/4 Calibration Date: 09/09/2020 19:04

Instrument ID: CVOAMS13 Calib Start Date: 09/04/2020 14:09

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 09/04/2020 16:58

Lab File ID: P79533.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4048	0.4390		54.2	50.0	8.5	20.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79533.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Sep-2020 19:04:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0116494-004
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub61

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: sgroa Date: 09-Sep-2020 18:23:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	55806	20.0	16.3	
6 Chloromethane	50	0.886	0.886	0.000	92	81360	20.0	17.1	
8 Butadiene	54	0.886	0.886	0.000	95	54440	20.0	17.1	
7 Vinyl chloride	62	0.893	0.893	0.000	96	62823	20.0	18.0	
9 Bromomethane	94	1.036	1.036	0.000	99	29469	20.0	28.7	
10 Chloroethane	64	1.093	1.093	0.000	98	35664	20.0	19.2	
11 Pentane	72	1.143	1.143	0.000	95	18138	40.0	48.4	
12 Trichlorofluoromethane	101	1.151	1.151	0.000	61	65079	20.0	20.4	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	98	81480	20.0	19.0	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	96	72555	20.0	19.8	
15 Ethyl ether	59	1.294	1.294	0.000	96	31488	20.0	18.4	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	47438	20.0	20.8	
16 Ethanol	46	1.401	1.401	0.000	23	6782	800.0	937.9	a
19 Carbon disulfide	76	1.401	1.401	0.000	99	169861	20.0	19.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	89	46989	20.0	21.1	
22 Iodomethane	142	1.466	1.466	0.000	95	41705	20.0	11.6	
23 Cyclopentene	67	1.537	1.537	0.000	96	131907	20.0	20.9	
24 Acrolein	56	1.559	1.559	0.000	94	5166	40.0	30.5	
25 3-Chloro-1-propene	76	1.623	1.623	0.000	94	29339	20.0	20.1	
26 Isopropyl alcohol	45	1.645	1.645	0.000	97	13655	200.0	194.1	
27 Methylene Chloride	84	1.688	1.688	0.000	91	57262	20.0	20.8	
28 Acetone	43	1.709	1.709	0.000	88	37475	100.0	115.2	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	55366	20.0	21.2	
30 Methyl acetate	43	1.781	1.781	0.000	99	38784	40.0	45.7	
31 Hexane	86	1.817	1.817	0.000	91	14030	20.0	22.3	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	96	109412	20.0	20.5	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	99	87155	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	99	21804	200.0	228.6	
35 Acetonitrile	41	1.981	1.981	0.000	98	31083	200.0	178.4	
36 Isopropyl ether	45	2.046	2.046	0.000	98	156157	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	89	49348	20.0	20.6	
38 1,1-Dichloroethane	63	2.118	2.118	0.000	100	96132	20.0	19.9	
39 Acrylonitrile	53	2.146	2.146	0.000	93	122199	200.0	194.7	
40 Tert-butyl ethyl ether	59	2.268	2.268	0.000	89	131994	20.0	19.2	
41 Vinyl acetate	43	2.282	2.282	0.000	100	125228	40.0	33.6	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	59102	20.0	20.5	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	97	63999	20.0	19.5	
44 Cyclohexane	56	2.583	2.583	0.000	90	94576	20.0	19.5	
45 Chlorobromomethane	128	2.590	2.590	0.000	88	26675	20.0	21.1	
46 Chloroform	83	2.648	2.648	0.000	99	87240	20.0	20.1	
47 Carbon tetrachloride	117	2.734	2.734	0.000	97	57778	20.0	22.6	
48 Ethyl acetate	70	2.741	2.741	0.000	98	7176	40.0	55.3	
49 Methyl acrylate	55	2.748	2.748	0.000	80	24445	20.0	17.9	
50 Tetrahydrofuran	42	2.755	2.755	0.000	96	21756	40.0	48.0	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	111332	50.0	51.0	
52 1,1,1-Trichloroethane	97	2.777	2.777	0.000	98	71660	20.0	20.5	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	100164	250.0	250.0	
54 2-Butanone (MEK)	72	2.863	2.863	0.000	99	19394	100.0	132.5	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	96	77737	20.0	20.6	
56 Isooctane	57	2.956	2.956	0.000	99	157992	20.0	20.6	
57 n-Heptane	57	3.049	3.049	0.000	94	38940	20.0	20.7	
58 Benzene	78	3.049	3.049	0.000	95	227875	20.0	19.5	
59 Propionitrile	54	3.070	3.070	0.000	97	39890	200.0	215.7	
60 Methacrylonitrile	67	3.092	3.092	0.000	90	134451	200.0	193.2	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	104578	50.0	47.7	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	98	109371	20.0	19.1	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	97	54787	20.0	19.3	
64 Isobutyl alcohol	43	3.285	3.285	0.000	95	21937	500.0	470.7	
65 t-Amyl alcohol	59	3.350	3.350	0.000	92	15923	200.0	210.5	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	506797	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	53584	20.0	16.7	
68 Methylcyclohexane	83	3.507	3.507	0.000	95	89039	20.0	19.9	
69 Trichloroethene	130	3.536	3.536	0.000	97	58647	20.0	21.4	
70 2-ethoxy-2-methyl butane	59	3.765	3.765	0.000	94	106624	20.0	18.9	
71 Dibromomethane	93	3.894	3.894	0.000	94	24698	20.0	20.2	
72 n-Butanol	56	3.915	3.915	0.000	87	13162	500.0	457.4	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	93	52139	20.0	19.0	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	61097	20.0	20.3	
74 Ethyl acrylate	55	4.066	4.066	0.000	55	33447	20.0	18.3	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	86	12024	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.252	0.000	91	17436	40.0	42.7	
78 1,4-Dioxane	88	4.259	4.259	0.000	34	6787	400.0	489.4	
79 n-Propyl acetate	43	4.417	4.417	0.000	99	35837	20.0	17.4	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	96	6843	20.0	13.2	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	91	73524	20.0	19.2	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	475794	50.0	49.3	
83 Toluene	91	4.933	4.933	0.000	93	240912	20.0	20.3	
84 Epichlorohydrin	57	4.983	4.983	0.000	93	14746	400.0	417.7	a
85 2-Nitropropane	41	5.190	5.190	0.000	97	9742	40.0	35.8	
86 Tetrachloroethene	166	5.362	5.362	0.000	97	58365	20.0	20.9	
87 4-Methyl-2-pentanone (MIBK)	43	5.398	5.398	0.000	94	130829	100.0	126.3	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	99	57731	20.0	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	31267	20.0	19.3	
90 Ethyl methacrylate	69	5.692	5.692	0.000	89	43186	20.0	20.1	
91 Chlorodibromomethane	129	5.807	5.807	0.000	99	40844	20.0	19.6	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	93	64259	20.0	19.1	
93 Ethylene Dibromide	107	6.043	6.043	0.000	98	34908	20.0	20.1	
94 n-Butyl acetate	43	6.401	6.401	0.000	97	37350	20.0	16.5	
95 2-Hexanone	43	6.458	6.458	0.000	93	90977	100.0	130.8	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	373898	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	153404	20.0	20.6	
98 Ethylbenzene	106	6.831	6.831	0.000	98	87397	20.0	21.0	
99 1,1,1,2-Tetrachloroethane	131	6.852	6.852	0.000	97	46090	20.0	20.0	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	104538	20.0	21.4	
101 o-Xylene	106	7.626	7.626	0.000	95	99740	20.0	20.2	
102 Bromoform	173	7.698	7.698	0.000	96	23105	20.0	19.6	
103 Styrene	104	7.712	7.712	0.000	96	166028	20.0	21.0	
104 n-Butyl acrylate	73	8.056	8.056	0.000	98	24060	20.0	18.2	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	267653	20.0	20.9	
106 Amyl acetate (mixed isomers)	43	8.464	8.464	0.000	91	53363	20.0	17.8	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	95	164146	50.0	54.2	
108 Bromobenzene	156	8.586	8.586	0.000	96	65525	20.0	21.3	
109 N-Propylbenzene	91	8.743	8.743	0.000	99	315502	20.0	20.5	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	97	41235	20.0	19.3	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	208688	20.0	19.7	
112 4-Ethyltoluene	105	8.930	8.930	0.000	98	264241	20.0	20.7	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	11550	20.0	20.5	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	219296	20.0	20.6	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.159	0.000	40	8646	20.0	21.2	a
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	190037	20.0	20.4	
117 tert-Butylbenzene	119	9.546	9.546	0.000	95	190651	20.0	20.7	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	222418	20.0	20.2	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	56464	20.0	19.1	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	285645	20.0	20.4	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	128829	20.0	21.2	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	244467	20.0	20.7	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	93	207926	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.248	0.000	97	133698	20.0	20.9	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	226754	20.0	20.3	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	95	218551	20.0	20.2	
127 Benzyl chloride	126	10.713	10.713	0.000	97	12900	20.0	19.9	
128 p-Diethylbenzene	119	10.728	10.728	0.000	94	120990	20.0	20.3	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	217016	20.0	20.2	
130 1,2-Dichlorobenzene	146	10.914	10.914	0.000	98	114439	20.0	20.6	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	97	210522	20.0	20.3	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	91	7079	20.0	20.0	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	98	93351	20.0	21.2	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	73278	20.0	19.8	
135 Hexachlorobutadiene	225	12.841	12.841	0.000	97	32295	20.0	19.8	
136 Naphthalene	128	13.127	13.127	0.000	100	121098	20.0	17.7	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	54848	20.0	18.1	
S 138 1,2-Dichloroethene, Total	100				0		40.0	41.7	
S 139 1,3-Dichloropropene, Total	100				0		40.0	38.2	
S 140 Xylenes, Total	100				0		40.0	41.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 142 Total BTEX	1				0		100.0	102.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 14:25:33 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79533.D

Injection Date: 09-Sep-2020 19:04:30 Instrument ID: CVOAMS13 Operator ID:

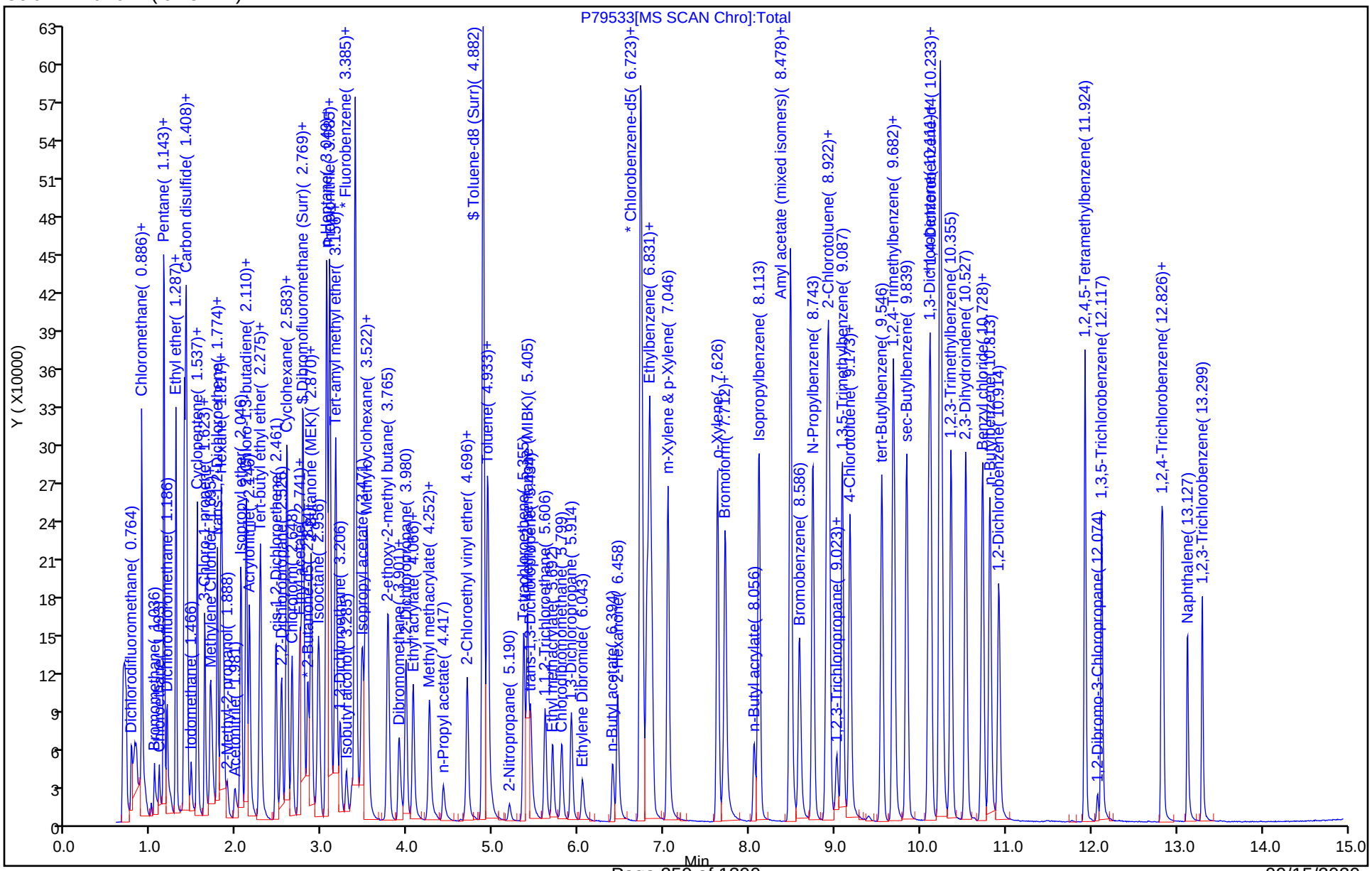
Lims ID: CCVIS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

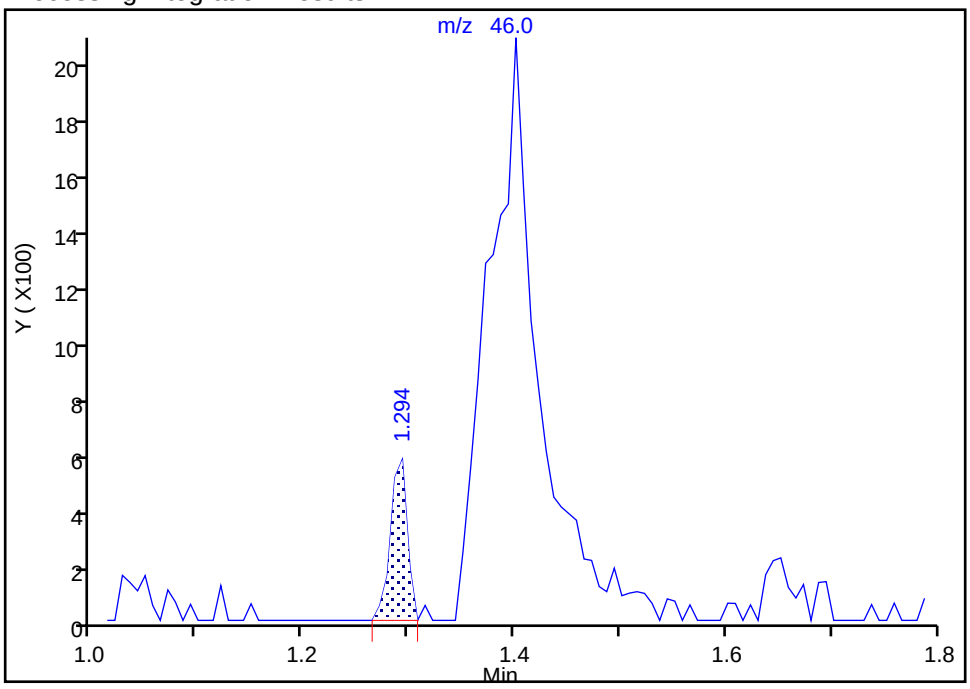
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79533.D
Injection Date: 09-Sep-2020 19:04:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

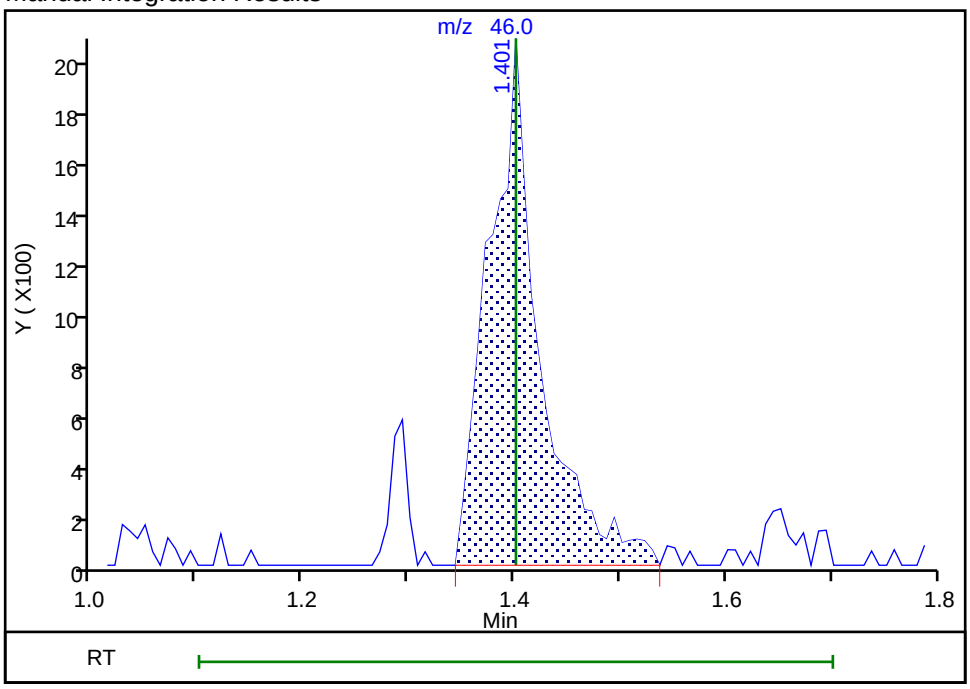
Processing Integration Results

RT: 1.29
Area: 624
Amount: 86.293585
Amount Units: ug/l



Manual Integration Results

RT: 1.40
Area: 6782
Amount: 937.8896
Amount Units: ug/l



Reviewer: sgroa, 09-Sep-2020 18:22:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

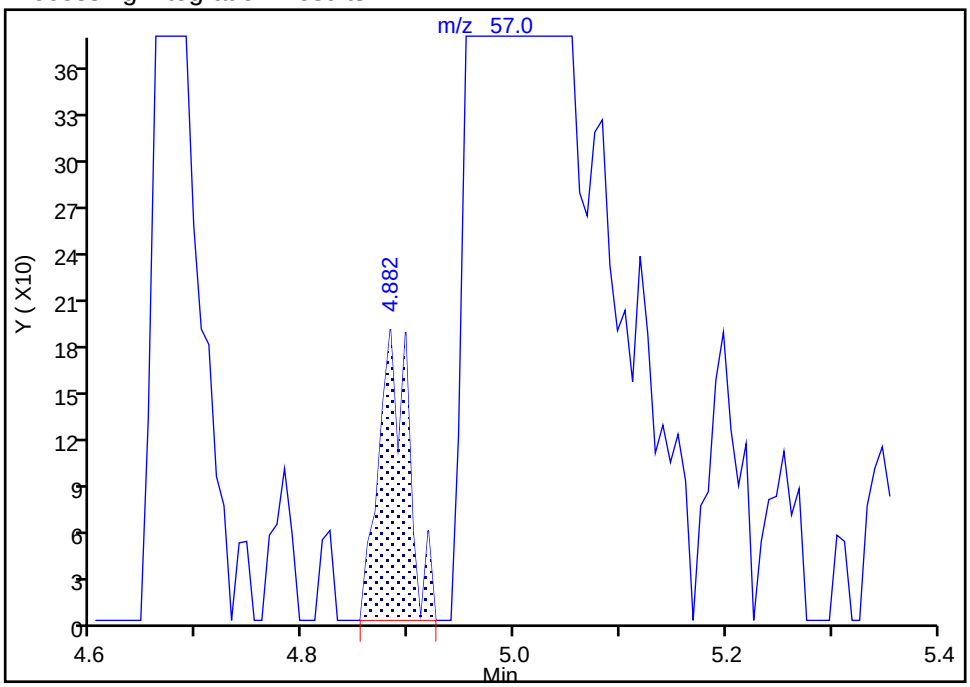
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79533.D
Injection Date: 09-Sep-2020 19:04:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

84 Epichlorohydrin, CAS: 106-89-8

Signal: 1

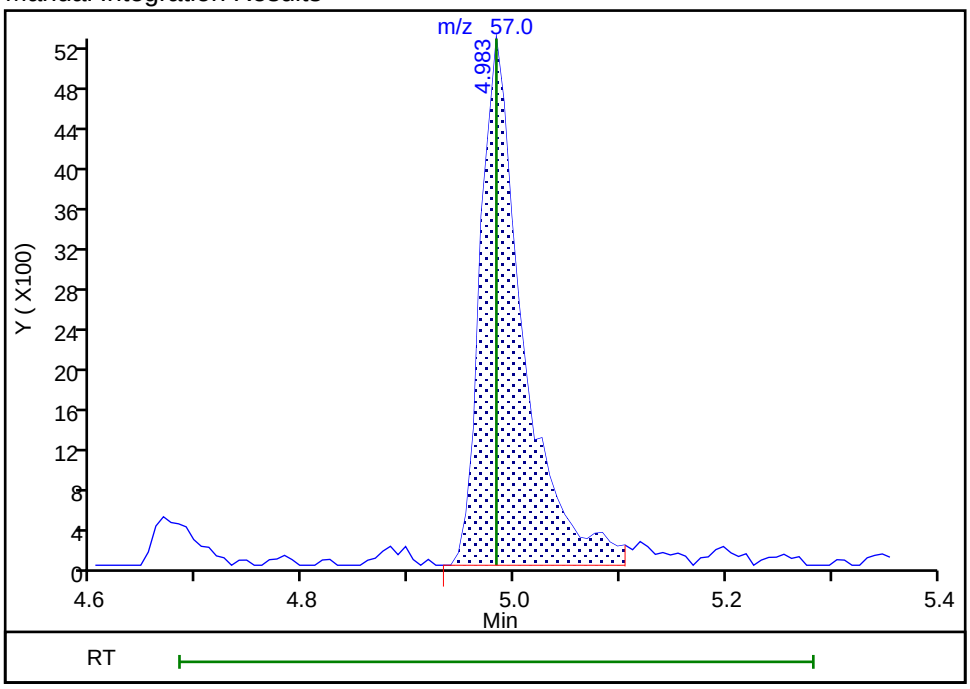
Processing Integration Results

RT: 4.88
Area: 367
Amount: 10.715751
Amount Units: ug/l



Manual Integration Results

RT: 4.98
Area: 14746
Amount: 417.7364
Amount Units: ug/l



Reviewer: xuyvo, 10-Sep-2020 11:00:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

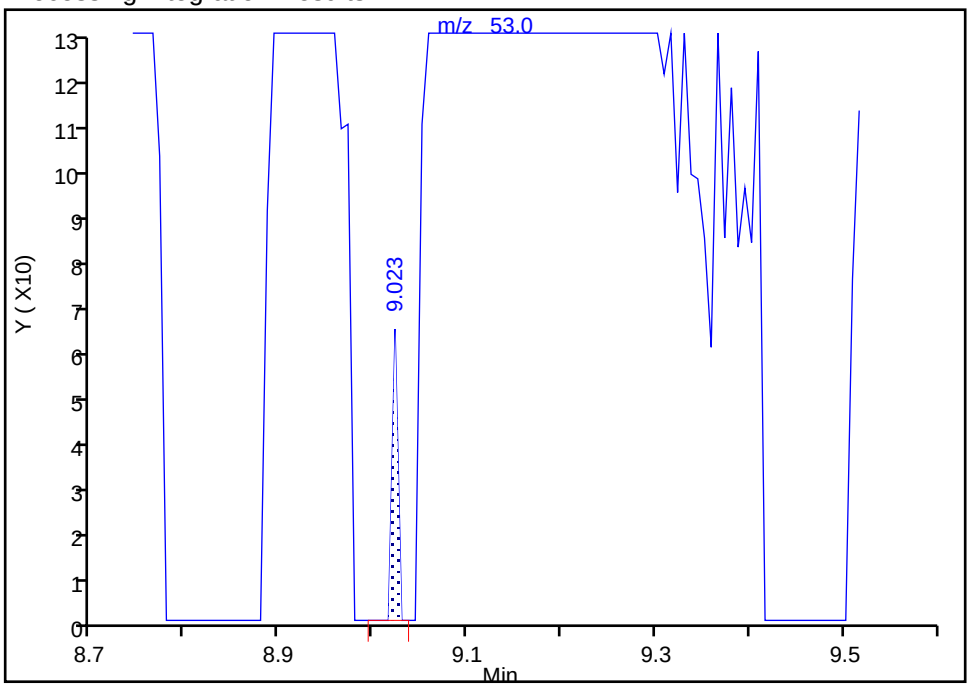
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79533.D
Injection Date: 09-Sep-2020 19:04:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

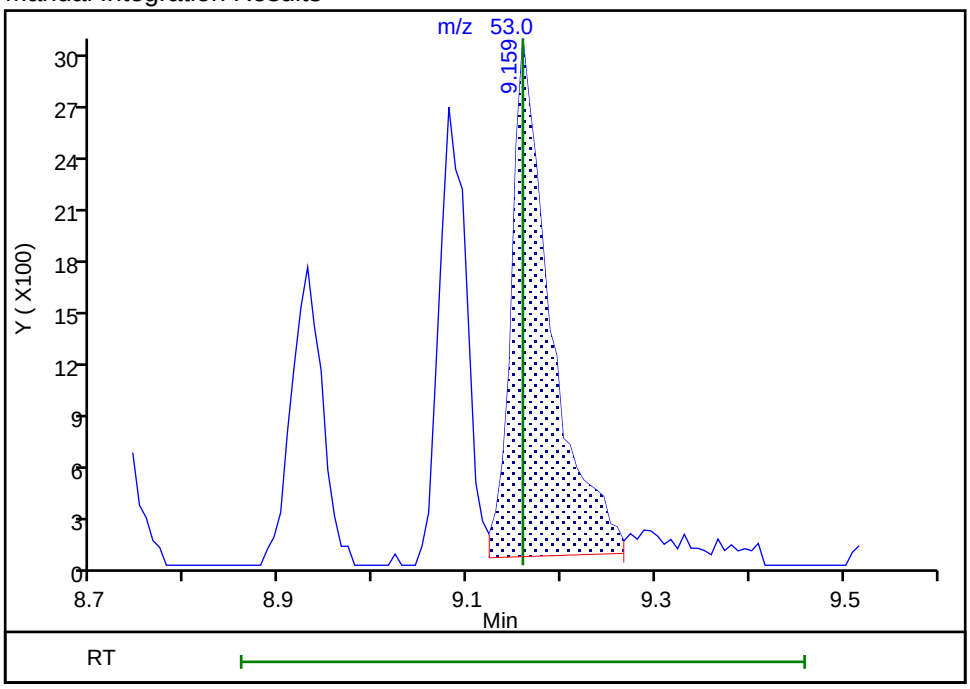
Processing Integration Results

RT: 9.02
Area: 28
Amount: 0.068775
Amount Units: ug/l



Manual Integration Results

RT: 9.16
Area: 8646
Amount: 21.236602
Amount Units: ug/l



Reviewer: xuyvo, 10-Sep-2020 11:00:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79350.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	04-Sep-2020 13:21:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0116303-001				
Operator ID:		Instrument ID:	CVOAMS13		
Method:	\\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\8260W_13.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	05-Sep-2020 12:39:16	Calib Date:	04-Sep-2020 16:58:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1014				
First Level Reviewer: starzecm		Date:	04-Sep-2020 12:34:18		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 143 BFB	95	2.007	2.007	0.000	89	27033	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

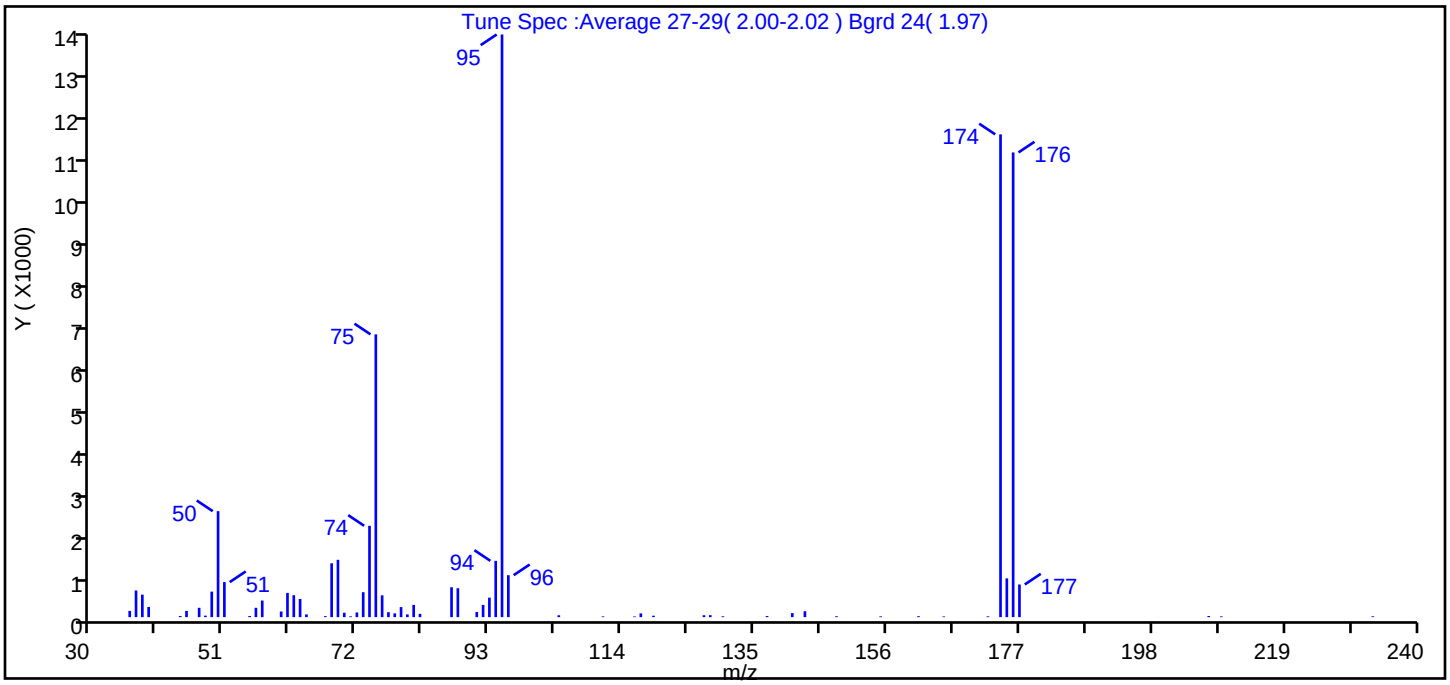
BFB_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79350.D
Injection Date: 04-Sep-2020 13:21:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 143 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.2
75	30 to 60% of m/z 95	48.5
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	6.6 (8.0)
176	Greater than 95% but less than 101% of m/z 174	79.8 (96.3)
177	5 to 9% of m/z 176	5.6 (7.0)

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79350.D\8260W_13.rslt\spectra.d
Injection Date: 04-Sep-2020 13:21:30
Spectrum: Tune Spec :Average 27-29(2.00-2.02) Bgrd 24(1.97)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	140	63.00	407	82.00	74	137.00	25
37.00	596	64.00	61	87.00	669	141.00	90
38.00	504	67.00	23	88.00	647	143.00	133
39.00	228	68.00	1205	91.00	116	148.00	20
44.00	26	69.00	1283	92.00	274	155.00	18
45.00	140	70.00	99	93.00	436	161.00	21
47.00	209	71.00	18	94.00	1260	165.00	16
48.00	34	72.00	105	95.00	13040	172.00	18
49.00	571	73.00	558	96.00	939	174.00	10805
50.00	2372	74.00	2044	104.00	42	175.00	867
51.00	784	75.00	6329	111.00	17	176.00	10400
55.00	25	76.00	488	116.00	16	177.00	731
56.00	209	77.00	111	117.00	84	207.00	25
57.00	371	78.00	85	119.00	32	209.00	17
60.00	126	79.00	225	127.00	43	233.00	19
61.00	542	80.00	61	128.00	45		
62.00	491	81.00	274	130.00	19		

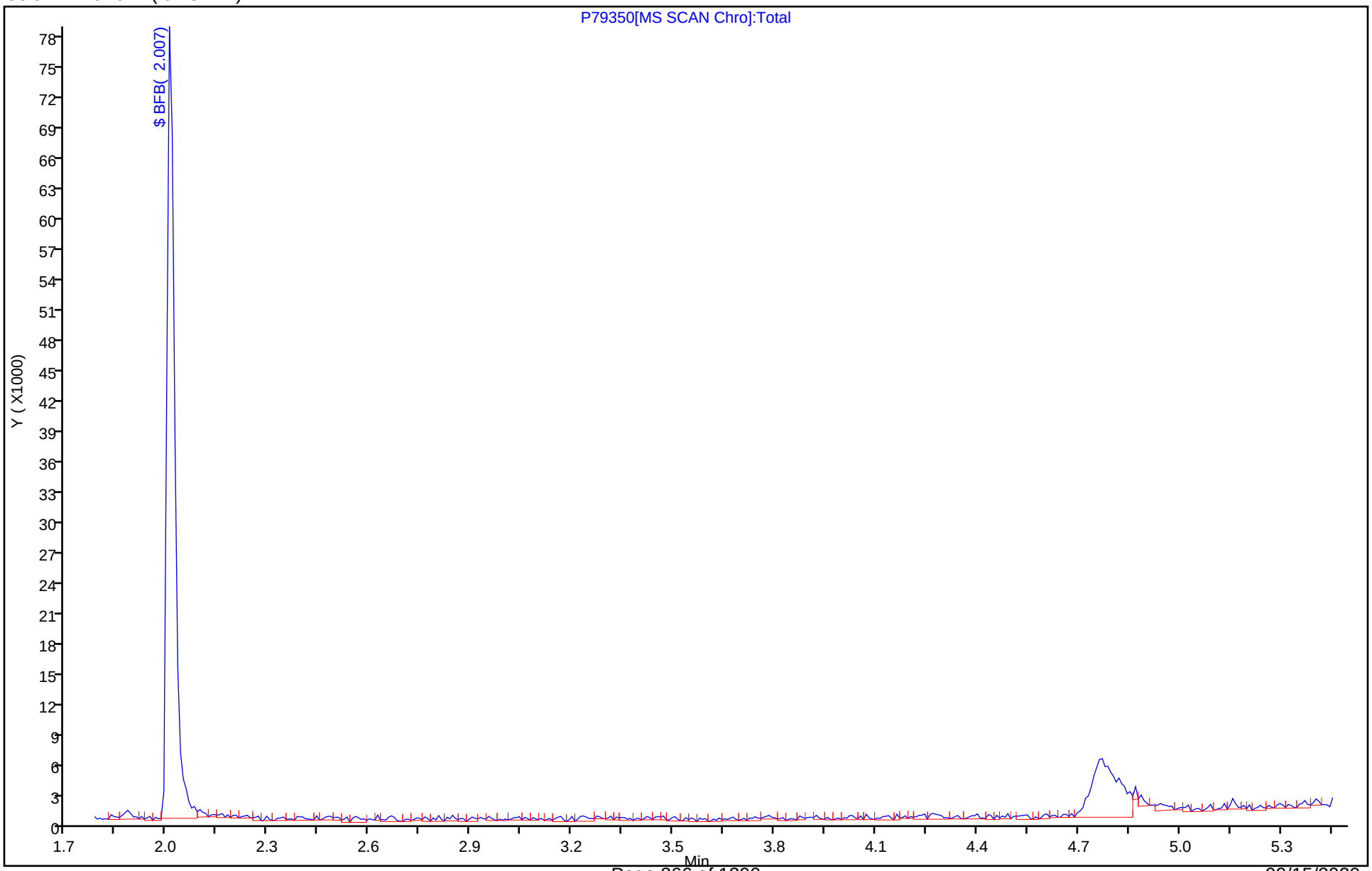
Report Date: 05-Sep-2020 12:39:16 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79350.D

Injection Date:	04-Sep-2020 13:21:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	99
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79479.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-Sep-2020 19:03:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0116444-001				
Operator ID:		Instrument ID:	CVOAMS13		
Method:	\\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	08-Sep-2020 20:17:20	Calib Date:	04-Sep-2020 16:58:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1016				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 143 BFB	95	2.015	2.015	0.000	96	33954	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

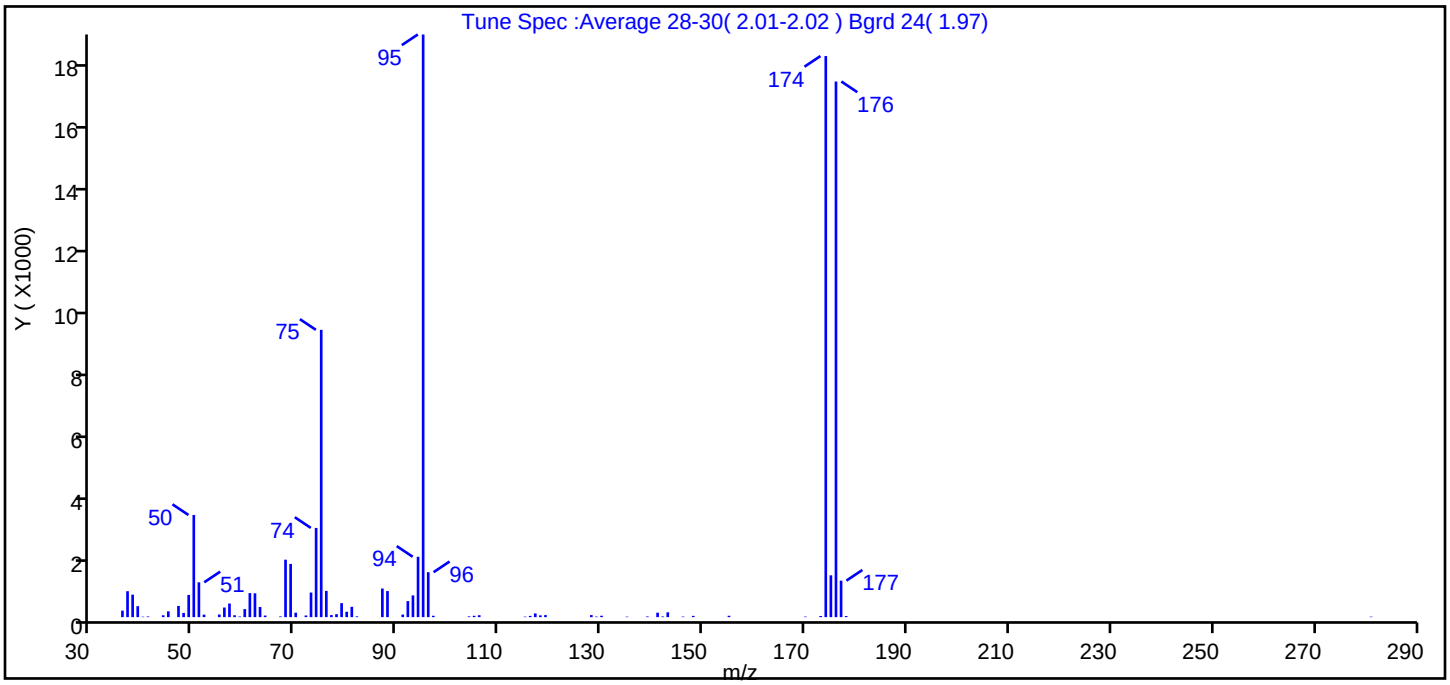
BFB_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79479.D
Injection Date: 08-Sep-2020 19:03:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 143 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.5
75	30 to 60% of m/z 95	49.3
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	96.3
175	5 to 9% of m/z 174	7.2 (7.5)
176	Greater than 95% but less than 101% of m/z 174	91.9 (95.5)
177	5 to 9% of m/z 176	6.3 (6.8)

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79479.D\8260W_13.rslt\spectra.d
Injection Date: 08-Sep-2020 19:03:30
Spectrum: Tune Spec :Average 28-30(2.01-2.02) Bgrd 24(1.97)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	203	60.00	251	82.00	24	129.00	17
37.00	808	61.00	749	87.00	891	130.00	44
38.00	700	62.00	742	88.00	812	135.00	16
39.00	342	63.00	316	91.00	80	139.00	21
40.00	14	64.00	50	92.00	500	141.00	138
41.00	21	67.00	22	93.00	677	142.00	21
44.00	58	68.00	1789	94.00	1880	143.00	150
45.00	180	69.00	1658	95.00	18144	146.00	17
47.00	349	70.00	139	96.00	1400	148.00	40
48.00	131	72.00	52	97.00	43	155.00	43
49.00	691	73.00	766	104.00	23	170.00	17
50.00	3181	74.00	2779	105.00	42	173.00	36
51.00	1085	75.00	8947	106.00	60	174.00	17472
52.00	79	76.00	817	115.00	16	175.00	1303
55.00	82	77.00	64	116.00	39	176.00	16680
56.00	300	78.00	93	117.00	116	177.00	1137
57.00	424	79.00	436	118.00	55	178.00	34
58.00	59	80.00	167	119.00	64	281.00	16
59.00	19	81.00	322	128.00	64		

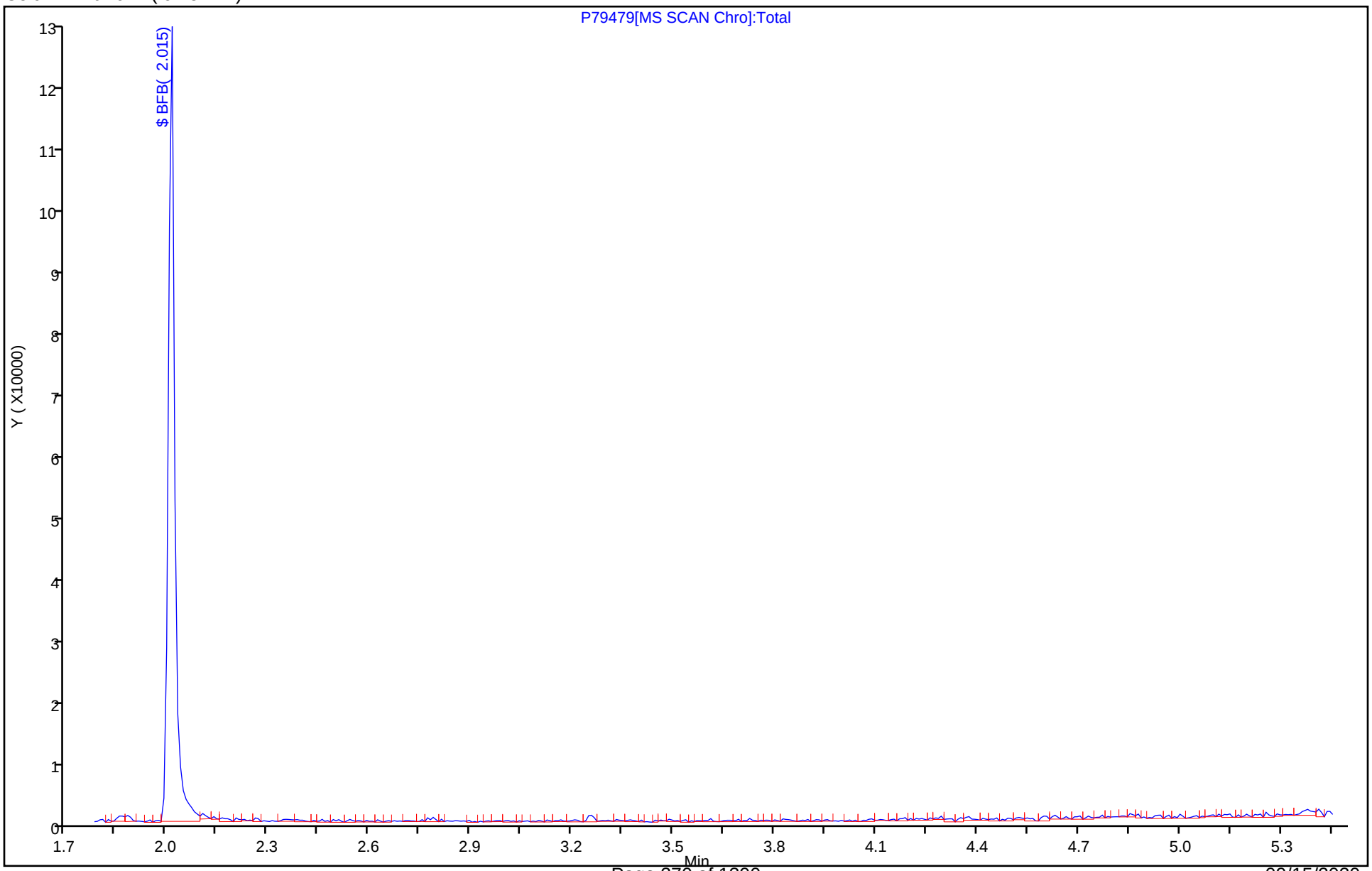
Report Date: 08-Sep-2020 20:17:20 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79479.D

Injection Date:	08-Sep-2020 19:03:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	99
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79504.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Sep-2020 07:47:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0116470-001
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 07:56:24 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: moroneyc Date: 09-Sep-2020 06:57:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 143 BFB	95	2.007	2.007	0.000	92	20995	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

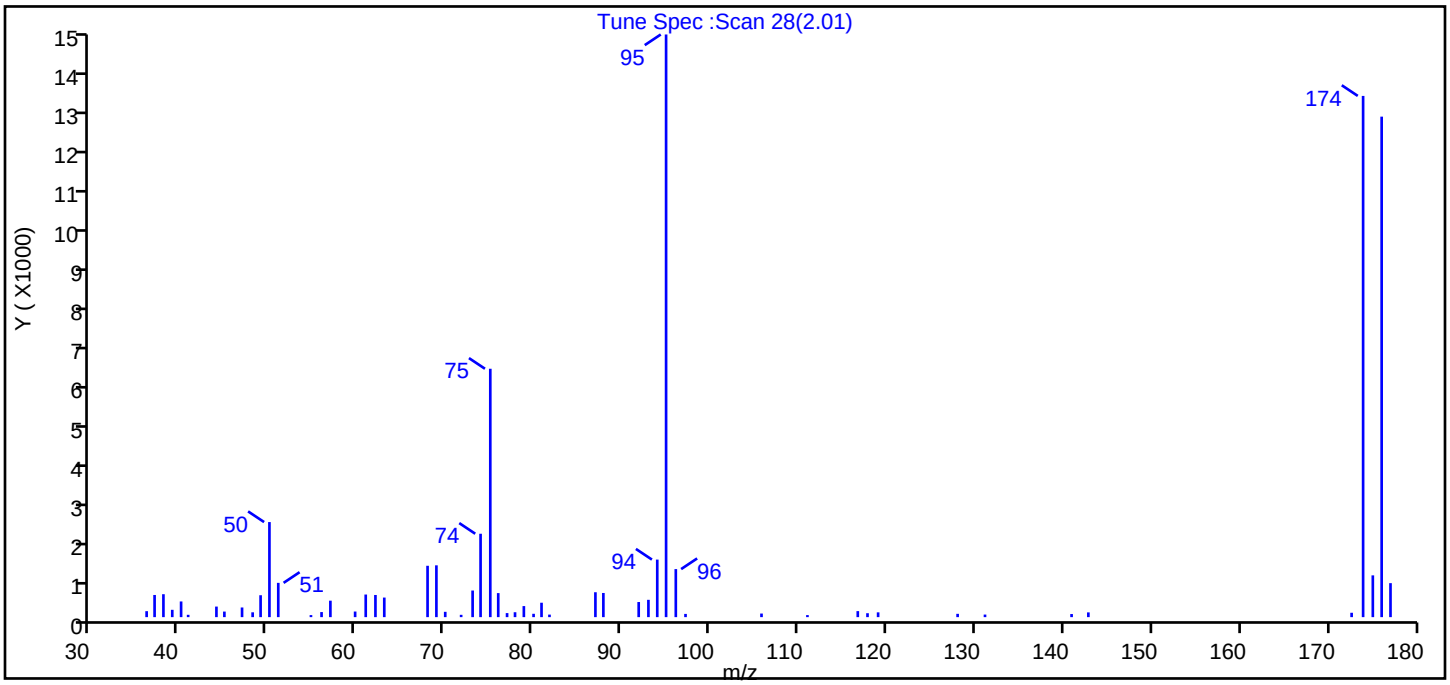
BFB_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79504.D
Injection Date: 09-Sep-2020 07:47:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 143 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.3
75	30 to 60% of m/z 95	42.6
96	5 to 9% of m/z 95	8.2
173	Less than 2% of m/z 174	0.8 (0.8)
174	50 to 120% of m/z 95	89.5
175	5 to 9% of m/z 174	7.2 (8.0)
176	Greater than 95% but less than 101% of m/z 174	85.9 (96.0)
177	5 to 9% of m/z 176	5.8 (6.8)

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79504.D\8260W_13.rslt\spectra.d
Injection Date: 09-Sep-2020 07:47:30
Spectrum: Tune Spec :Scan 28(2.01)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	146	56.00	124	77.00	99	106.00	88
37.00	541	57.00	402	78.00	120	111.00	50
38.00	560	60.00	137	79.00	270	117.00	147
39.00	179	61.00	552	80.00	82	118.00	96
40.00	383	62.00	541	81.00	352	119.00	117
41.00	57	63.00	478	82.00	62	128.00	81
44.00	258	68.00	1254	87.00	608	131.00	63
45.00	136	69.00	1265	88.00	590	141.00	76
47.00	236	70.00	130	92.00	369	143.00	116
48.00	118	72.00	57	93.00	423	173.00	107
49.00	535	73.00	650	94.00	1405	174.00	12725
50.00	2321	74.00	2036	95.00	14225	175.00	1020
51.00	837	75.00	6064	96.00	1173	176.00	12219
55.00	50	76.00	587	97.00	79	177.00	830

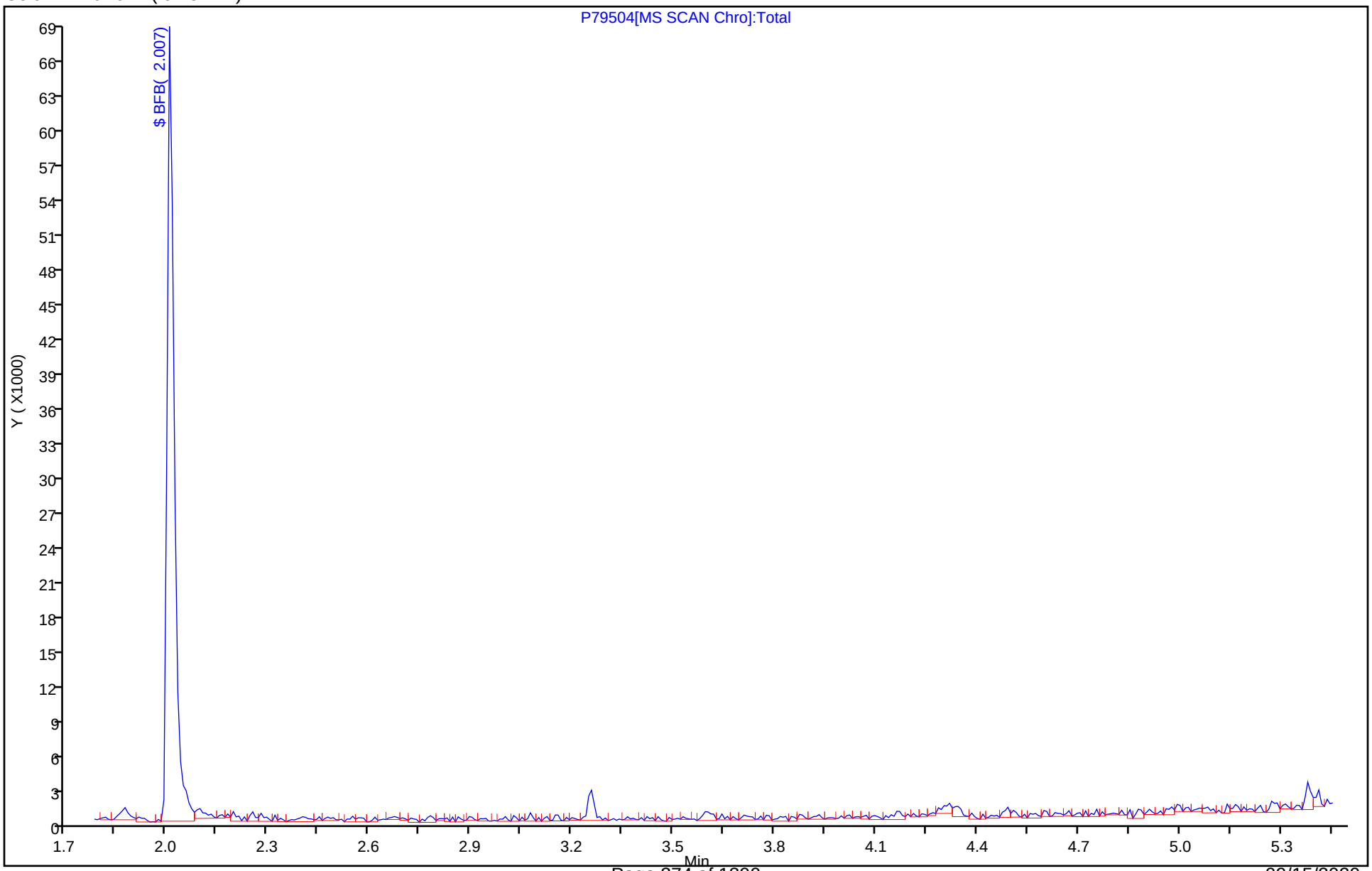
Report Date: 09-Sep-2020 07:56:25 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79504.D

Injection Date:	09-Sep-2020 07:47:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	99
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79530.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	09-Sep-2020 17:54:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0116494-001				
Operator ID:		Instrument ID:	CVOAMS13		
Method:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	09-Sep-2020 19:44:47	Calib Date:	04-Sep-2020 16:58:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1016				
First Level Reviewer: sgroa		Date:	09-Sep-2020 17:03:02		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 143 BFB	95	2.015	2.015	0.000	86	34505	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

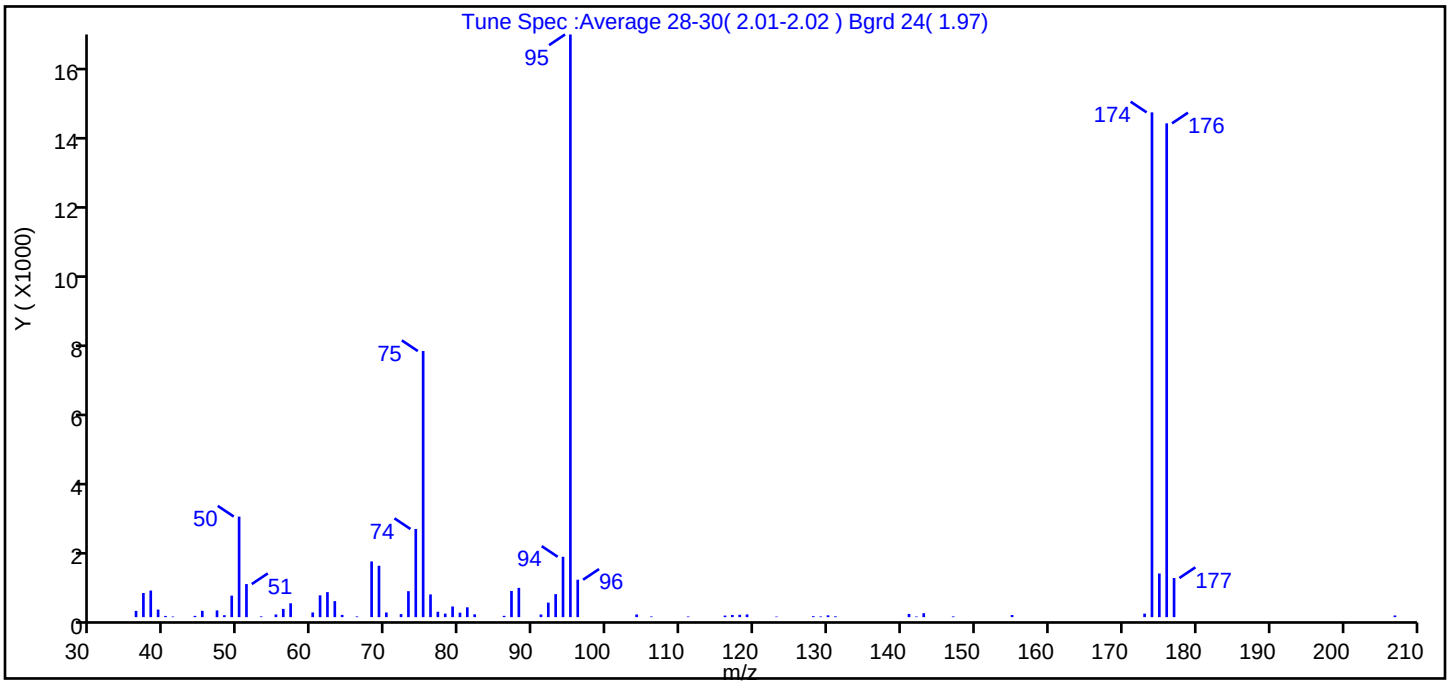
BFB_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79530.D
Injection Date: 09-Sep-2020 17:54:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 143 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	45.7
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	86.6
175	5 to 9% of m/z 174	7.5 (8.6)
176	Greater than 95% but less than 101% of m/z 174	84.7 (97.8)
177	5 to 9% of m/z 176	6.7 (7.9)

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79530.D\8260W_13.rslt\spectra.d
Injection Date: 09-Sep-2020 17:54:30
Spectrum: Tune Spec :Average 28-30(2.01-2.02) Bgrd 24(1.97)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	180	61.00	626	82.00	81	128.00	27
37.00	693	62.00	718	86.00	38	129.00	19
38.00	763	63.00	461	87.00	751	130.00	52
39.00	217	64.00	65	88.00	840	131.00	24
40.00	35	66.00	20	91.00	77	141.00	92
41.00	17	68.00	1598	92.00	417	142.00	18
44.00	37	69.00	1474	93.00	660	143.00	112
45.00	182	70.00	133	94.00	1732	147.00	21
47.00	193	72.00	88	95.00	16720	155.00	61
48.00	56	73.00	745	96.00	1074	173.00	101
49.00	617	74.00	2529	104.00	77	174.00	14485
50.00	2886	75.00	7636	106.00	19	175.00	1251
51.00	949	76.00	652	111.00	18	176.00	14170
53.00	21	77.00	155	116.00	45	177.00	1123
55.00	77	78.00	101	117.00	63	207.00	48
56.00	237	79.00	306	118.00	68		
57.00	398	80.00	128	119.00	78		
60.00	135	81.00	282	123.00	16		

Report Date: 09-Sep-2020 19:44:48 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79530.D

Injection Date:	09-Sep-2020 17:54:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	99
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722597/10

Matrix: Water Lab File ID: P79488.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 22:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722597/10

Matrix: Water Lab File ID: P79488.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 22:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-123
460-00-4	4-Bromofluorobenzene	108		76-120
1868-53-7	Dibromofluoromethane (Surr)	107		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722597/10

Matrix: Water Lab File ID: P79488.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 22:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79488.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Sep-2020 22:33:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0116444-010
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 07:05:09 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: moroneyc Date: 09-Sep-2020 07:00:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	103726	1000.0	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	114705	50.0	53.7	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	99	130040	250.0	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	110776	50.0	51.7	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	495972	50.0	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	62	14125	1000.0	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.883	0.000	99	475272	50.0	51.1	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	360979	50.0	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	93	158525	50.0	54.2	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	201418	50.0	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

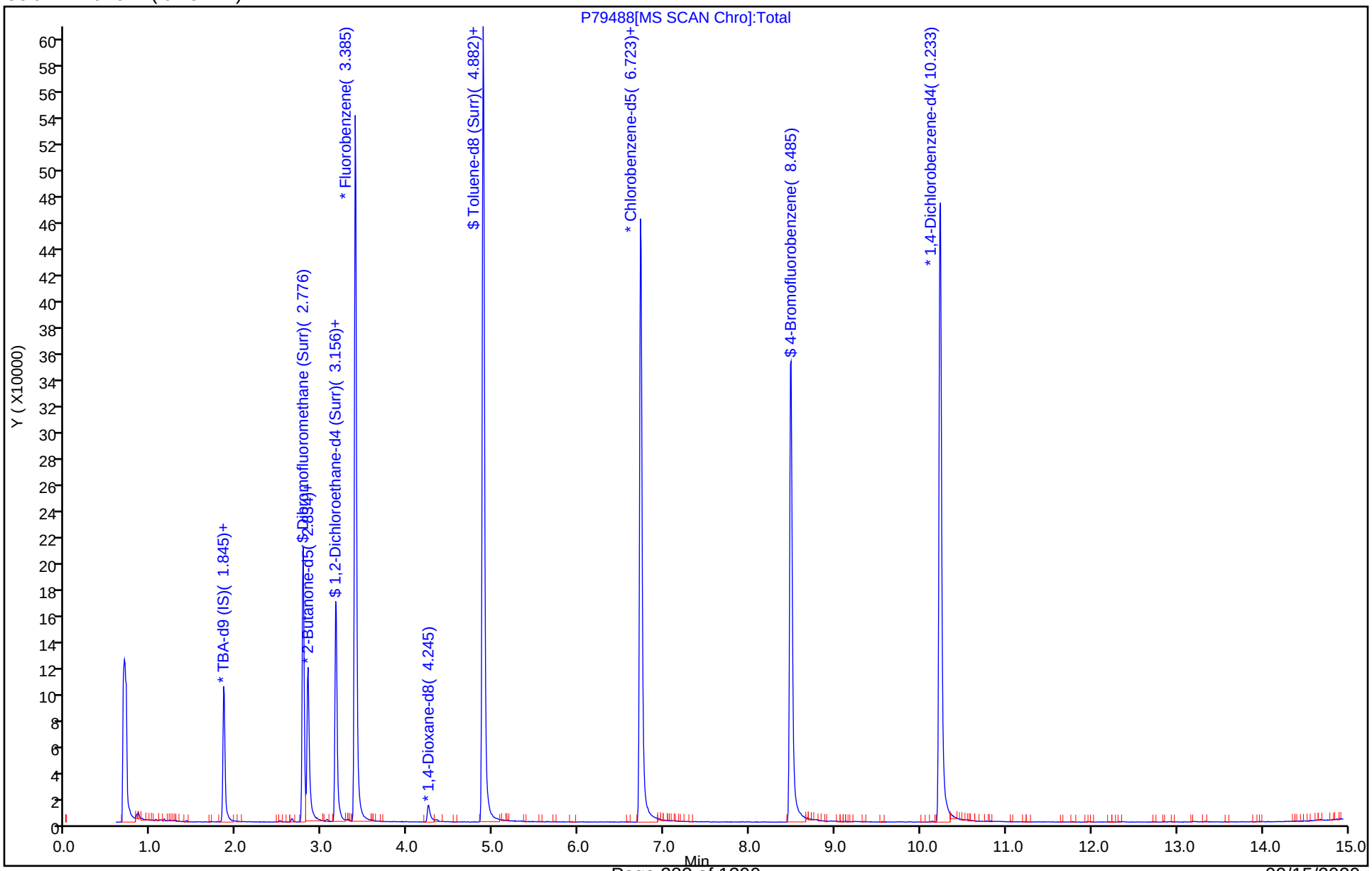
Report Date: 09-Sep-2020 07:05:24 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79488.D

Injection Date:	08-Sep-2020 22:33:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



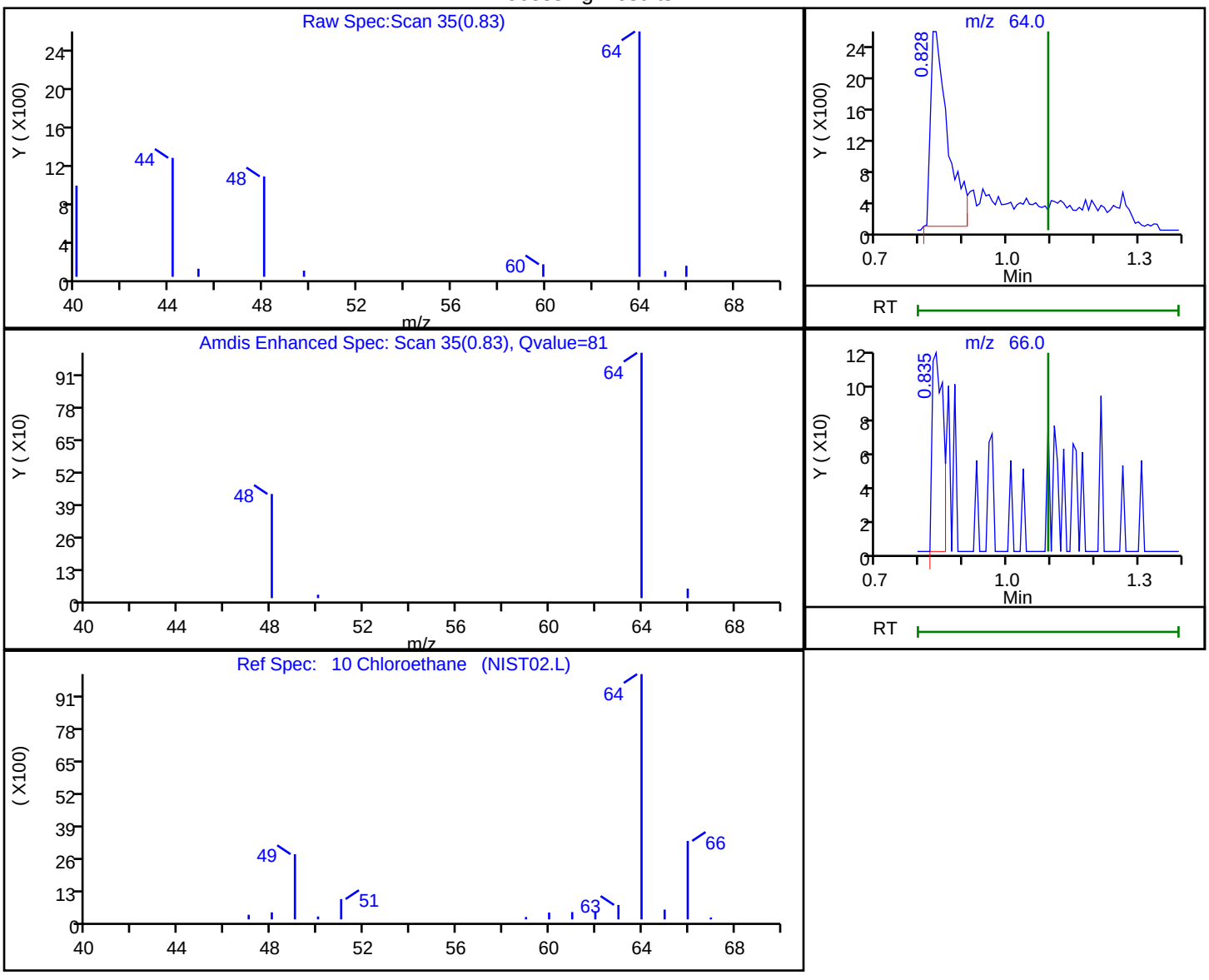
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79488.D
Injection Date: 08-Sep-2020 22:33:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
0.83	64.00	6945	3.822274
0.84	66.00	209	

Reviewer: moroneyc, 09-Sep-2020 06:59:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

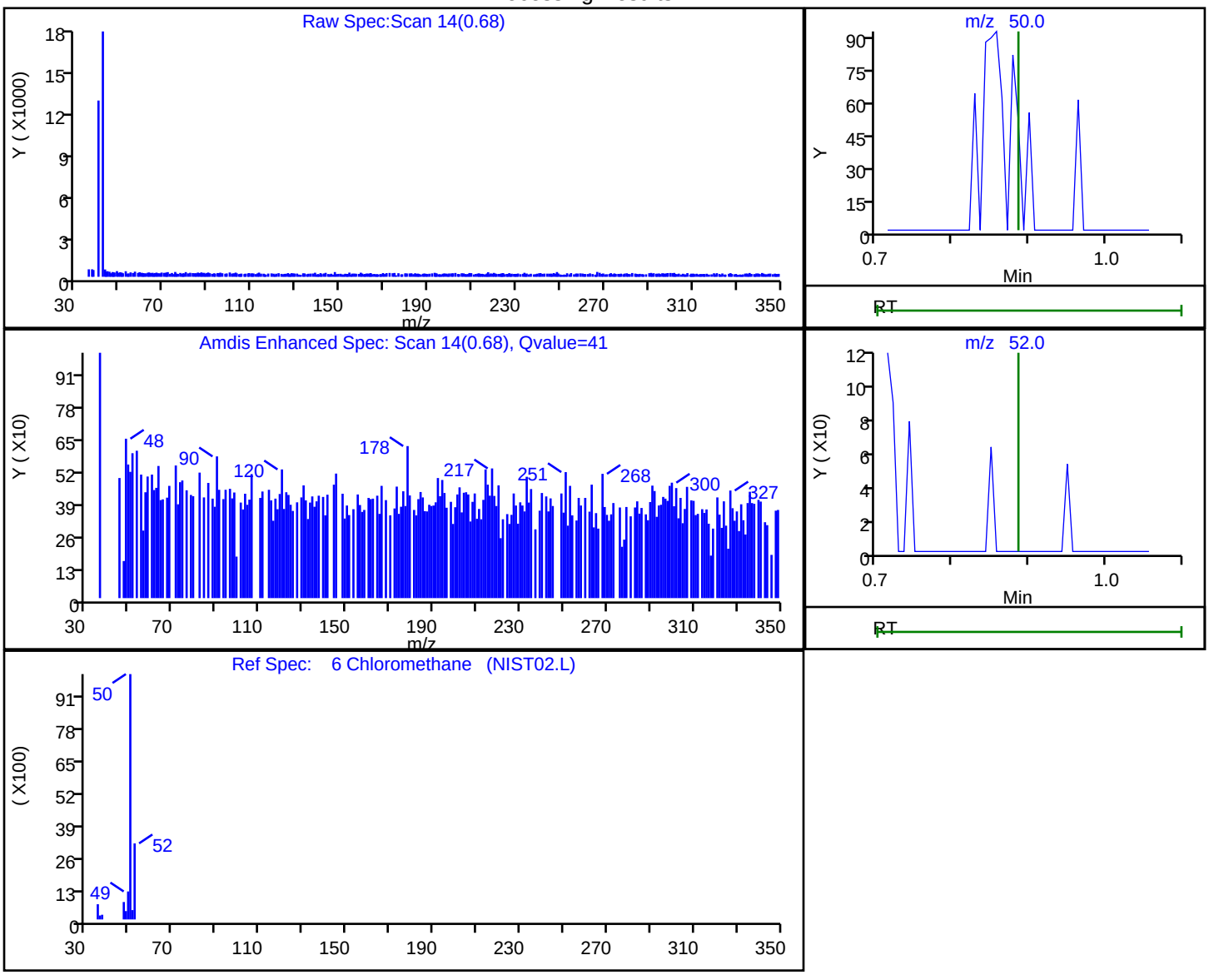
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79488.D
Injection Date: 08-Sep-2020 22:33:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.68	50.00	1059	0.226879
0.68	52.00	535	

Reviewer: moroneyc, 09-Sep-2020 06:59:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

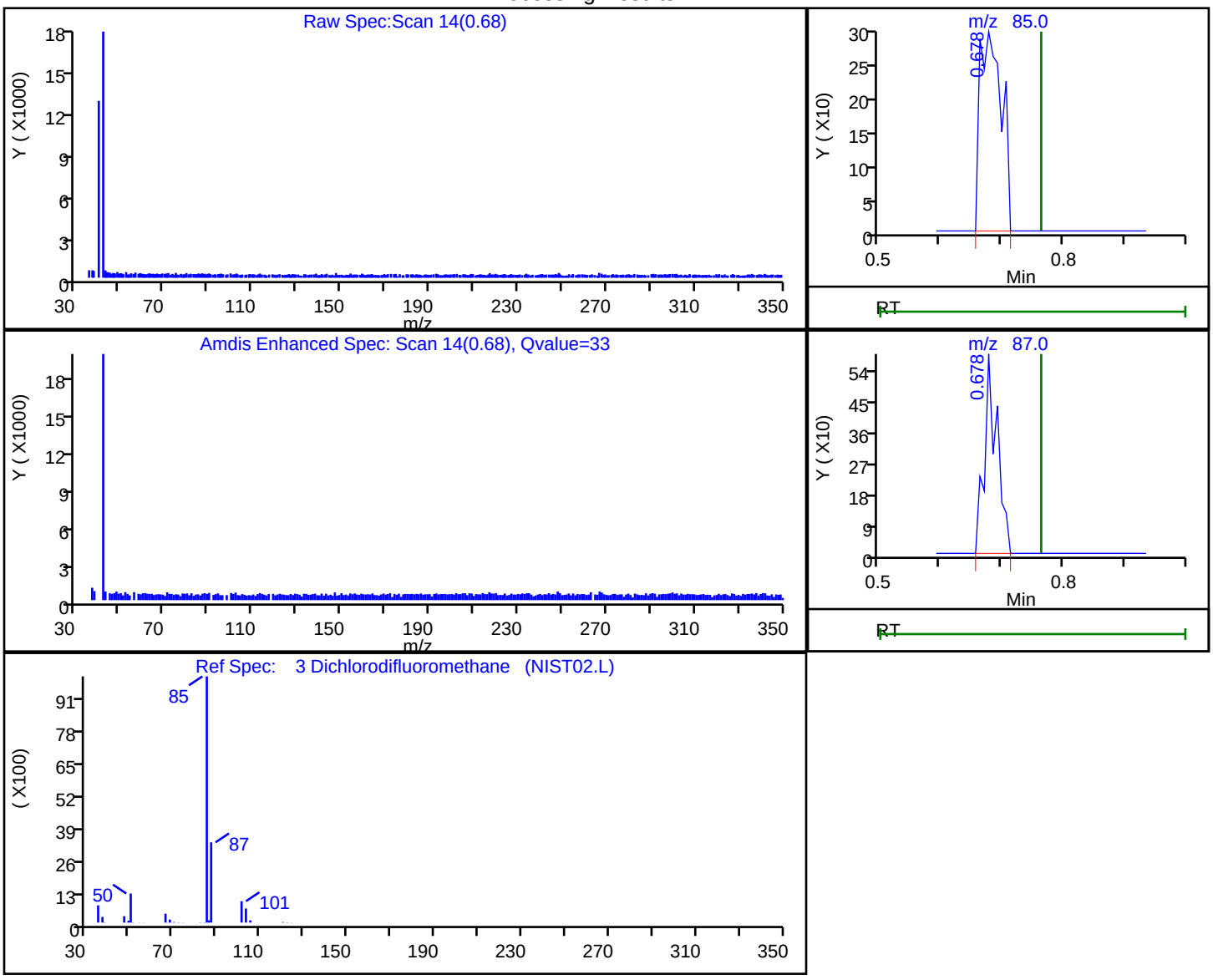
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79488.D
Injection Date: 08-Sep-2020 22:33:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.68	85.00	735	0.219837
0.68	87.00	852	

Reviewer: moroneyc, 09-Sep-2020 06:59:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722709/8

Matrix: Water Lab File ID: P79511.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 10:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722709/8

Matrix: Water Lab File ID: P79511.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 10:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-123
460-00-4	4-Bromofluorobenzene	101		76-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722709/8

Matrix: Water Lab File ID: P79511.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 10:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79511.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Sep-2020 10:31:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0116470-008
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 12:10:49 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: moroneyc Date: 09-Sep-2020 10:01:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	114331	1000.0	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	114416	50.0	49.4	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	100	126850	250.0	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	109224	50.0	47.0	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	537540	50.0	50.0	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	63	14451	1000.0	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	484835	50.0	48.3	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	389344	50.0	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	94	158483	50.0	50.3	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	216799	50.0	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

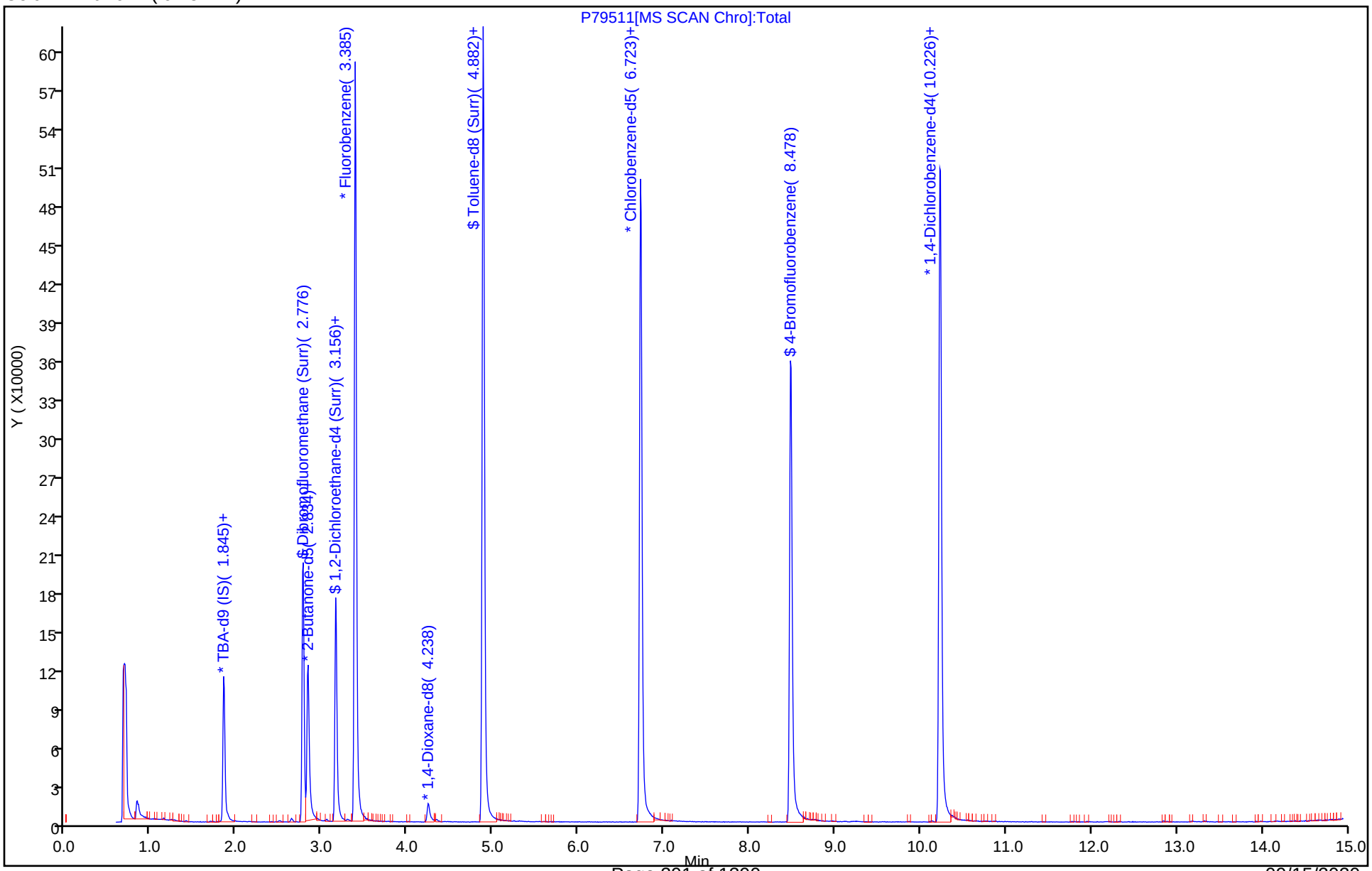
Report Date: 10-Sep-2020 12:10:50 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79511.D

Injection Date:	09-Sep-2020 10:31:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



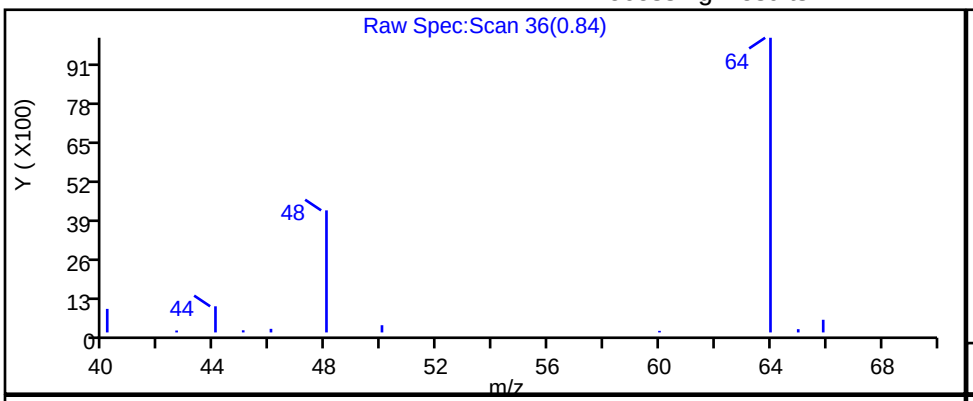
User Disabled Compound Report

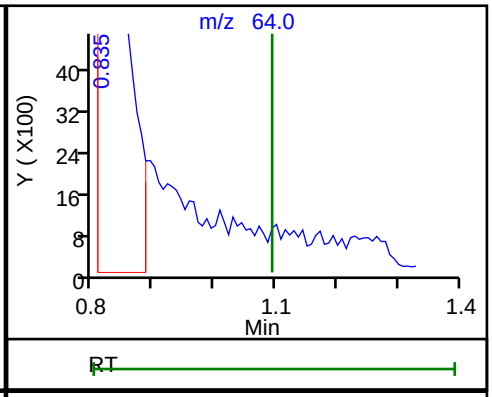
Eurofins TestAmerica, Edison

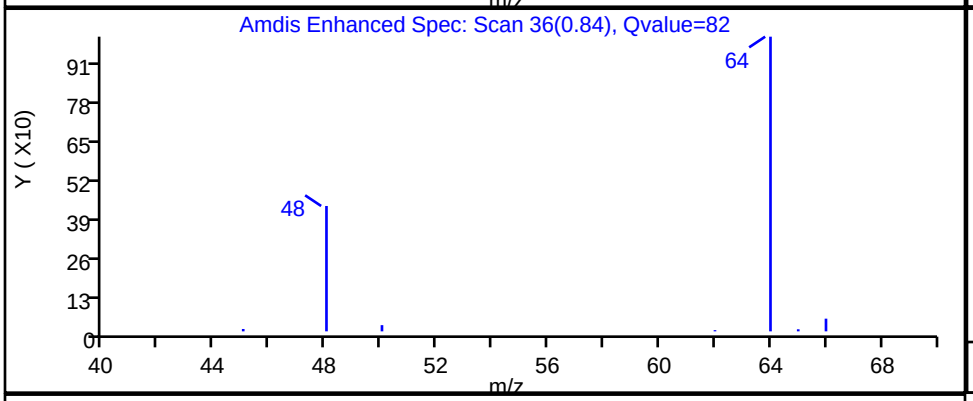
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79511.D
Injection Date: 09-Sep-2020 10:31:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

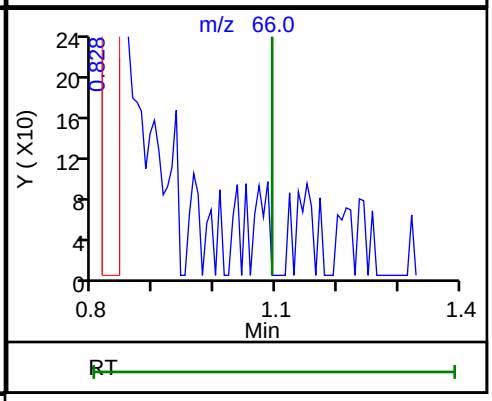
10 Chloroethane, CAS: 75-00-3

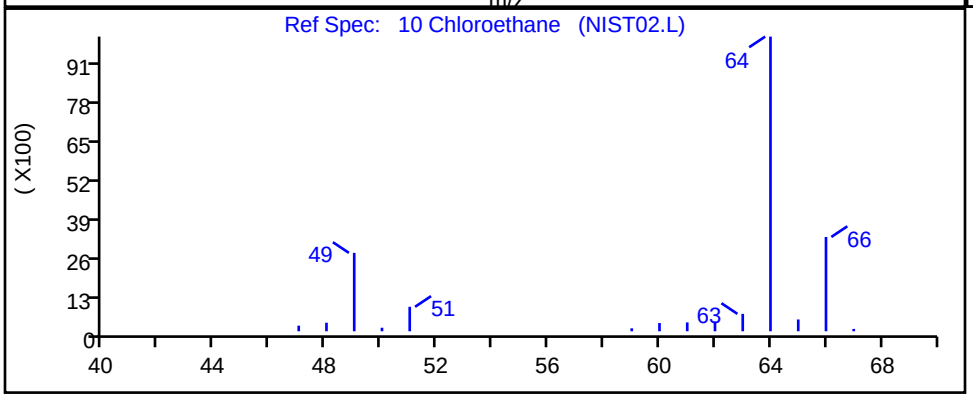
Processing Results











RT	Mass	Response	Amount
0.84	64.00	23408	11.886672
0.83	66.00	675	

Reviewer: moroneyc, 09-Sep-2020 10:01:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

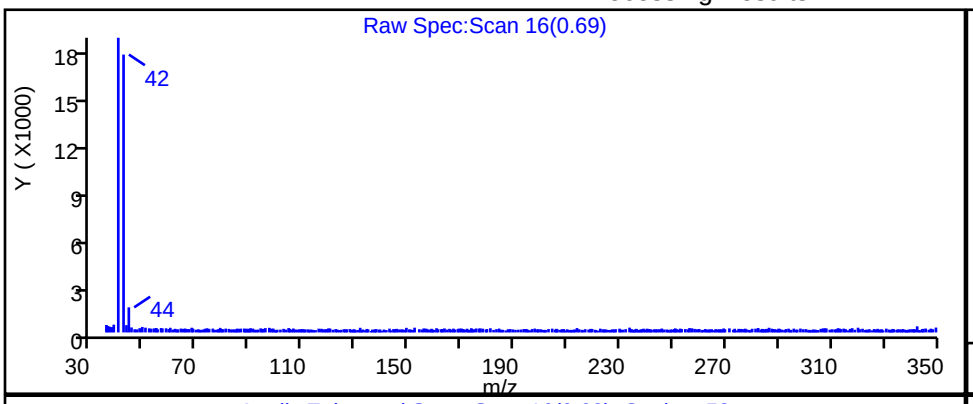
User Disabled Compound Report

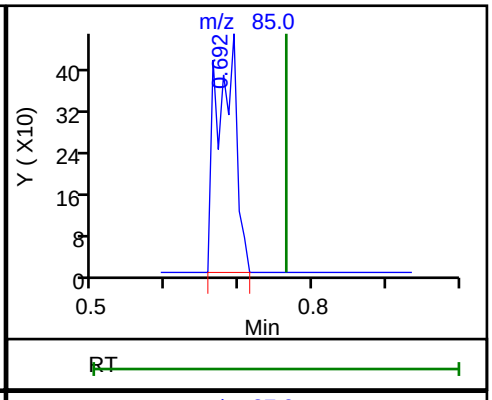
Eurofins TestAmerica, Edison

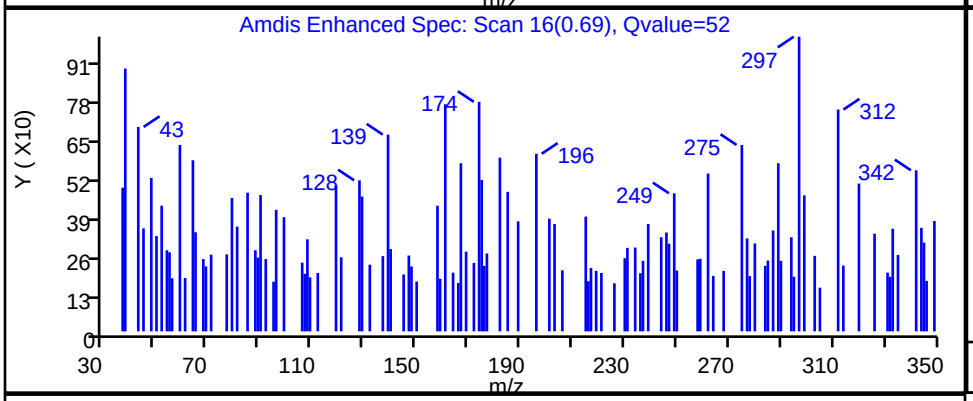
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79511.D				
Injection Date:	09-Sep-2020 10:31:30	Instrument ID:	CVOAMS13		
Lims ID:	MB				
Client ID:					
Operator ID:		ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

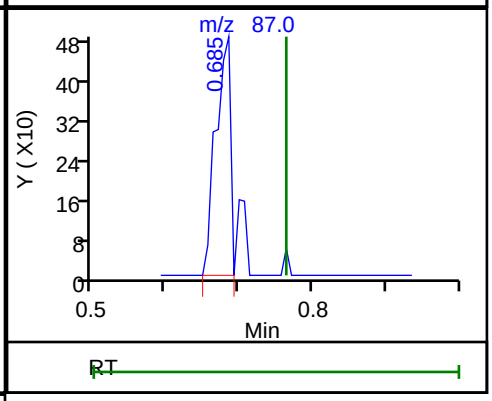
3 Dichlorodifluoromethane, CAS: 75-71-8

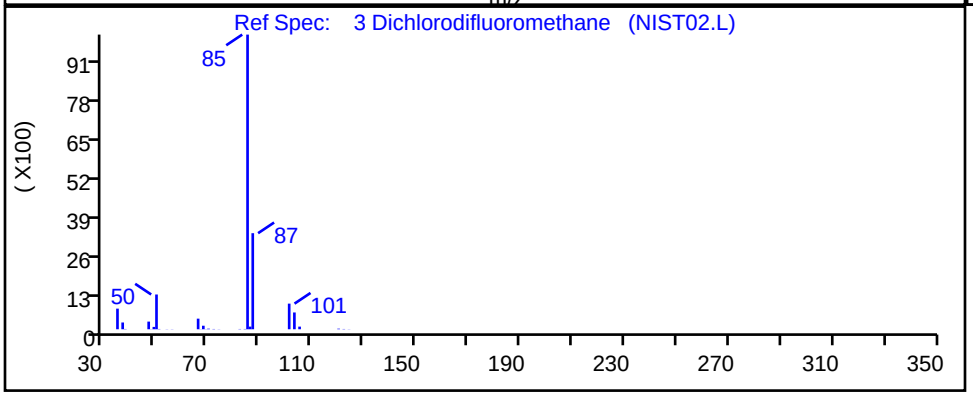
Processing Results











RT	Mass	Response	Amount
0.69	85.00	856	0.236229
0.68	87.00	677	

Reviewer: moroneyc, 09-Sep-2020 10:01:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

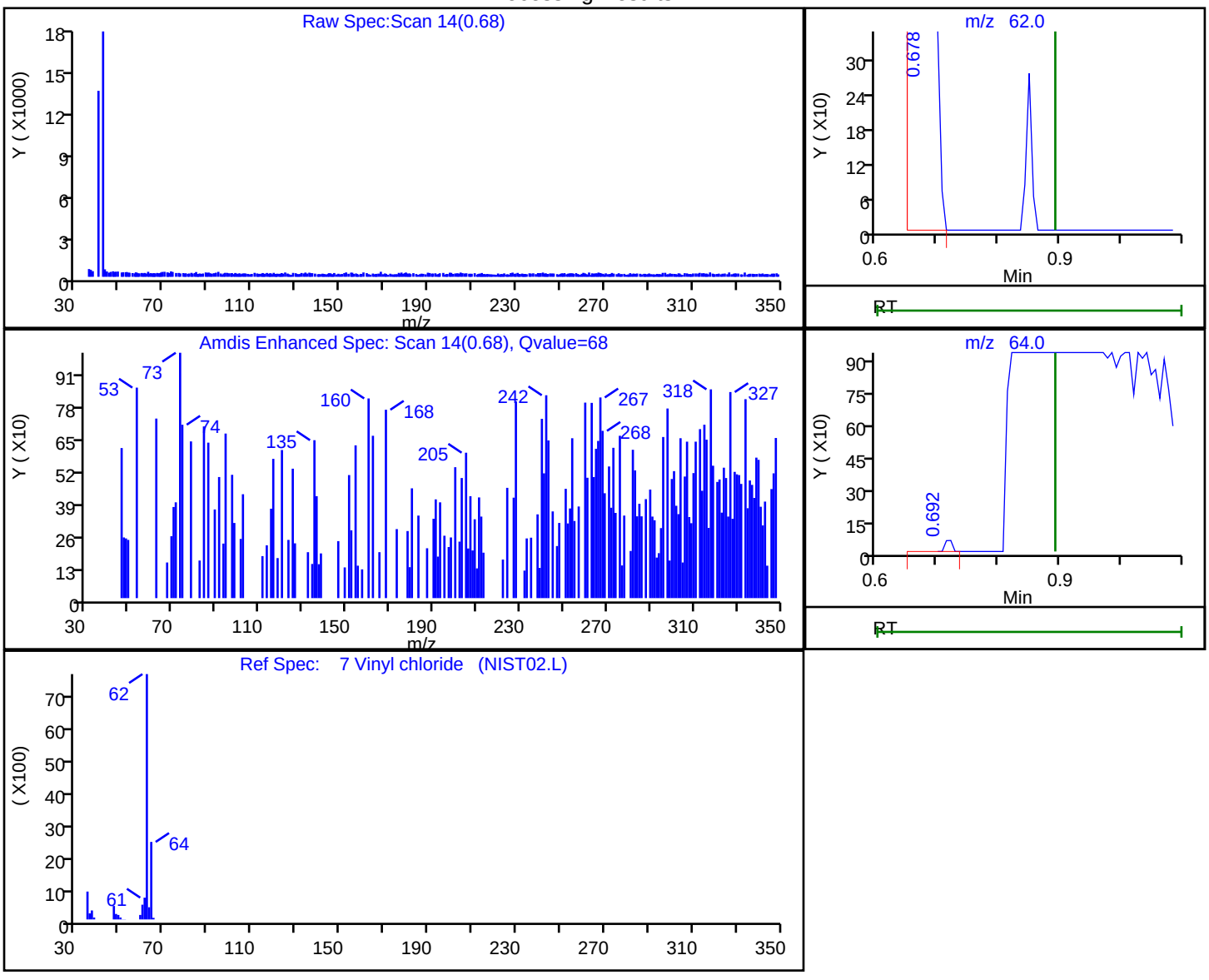
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79511.D
Injection Date: 09-Sep-2020 10:31:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	770	0.207742
0.69	64.00	918	

Reviewer: moroneyc, 09-Sep-2020 10:01:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722834/9

Matrix: Water Lab File ID: P79538.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 21:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722834/9

Matrix: Water Lab File ID: P79538.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 21:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-123
460-00-4	4-Bromofluorobenzene	105		76-120
1868-53-7	Dibromofluoromethane (Surr)	103		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722834/9

Matrix: Water Lab File ID: P79538.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 21:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Sep-2020 21:01:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0116494-009
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: sgroa Date: 09-Sep-2020 20:20:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	83555	1000.0	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	108174	50.0	51.4	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	96067	250.0	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	97790	50.0	46.3	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	488796	50.0	50.0	
* 76 1,4-Dioxane-d8	96	4.245	4.238	0.007	63	11233	1000.0	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	453592	50.0	49.7	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	353801	50.0	50.0	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	95	150716	50.0	52.6	
* 123 1,4-Dichlorobenzene-d4	152	10.233	10.226	0.007	94	197833	50.0	50.0	

Reagents:

8260ISNEW_00129 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00212 Amount Added: 1.00 Units: uL Run Reagent

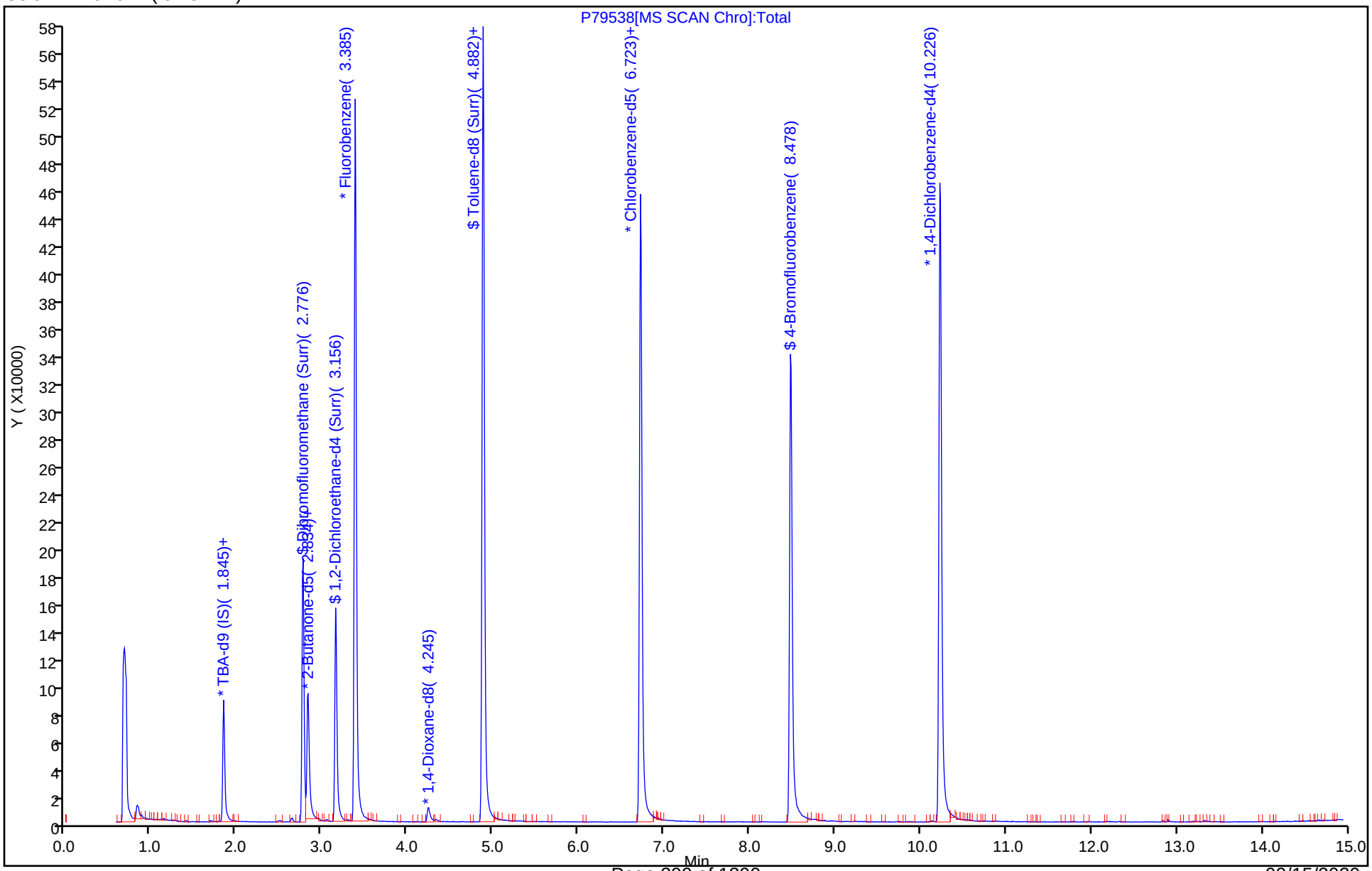
Report Date: 10-Sep-2020 14:26:08 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D

Injection Date:	09-Sep-2020 21:01:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



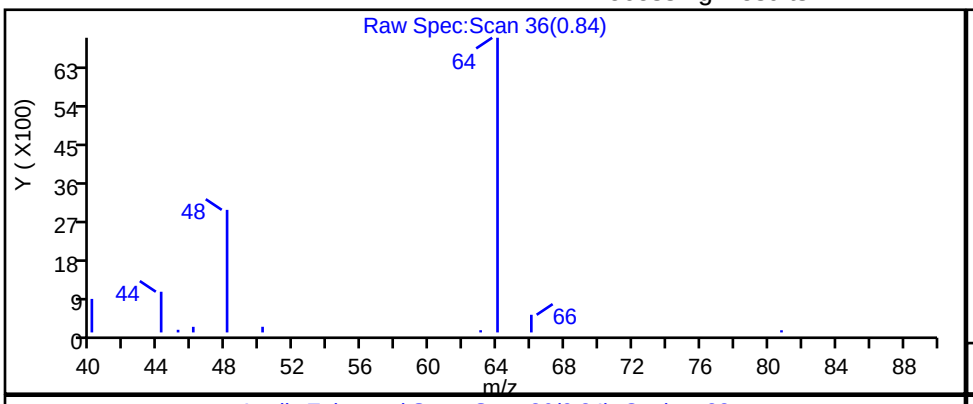
User Disabled Compound Report

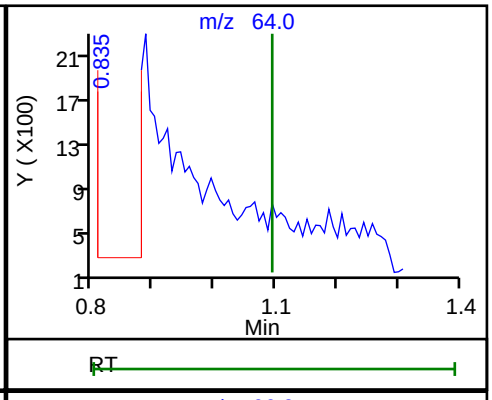
Eurofins TestAmerica, Edison

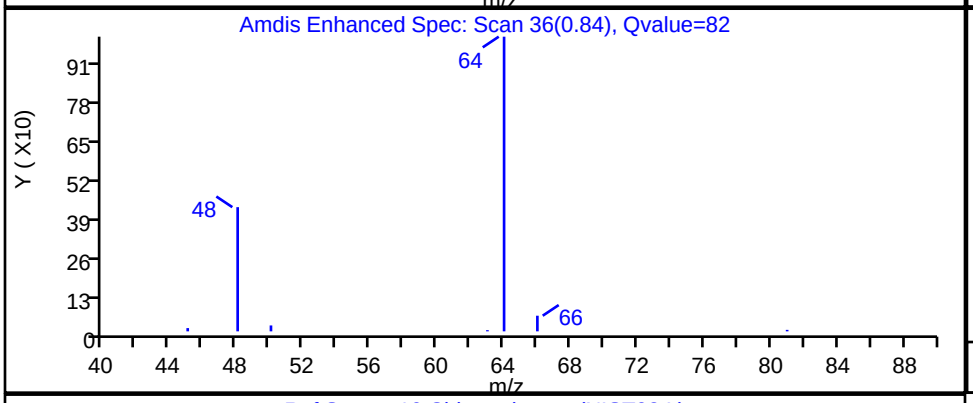
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D
Injection Date: 09-Sep-2020 21:01:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

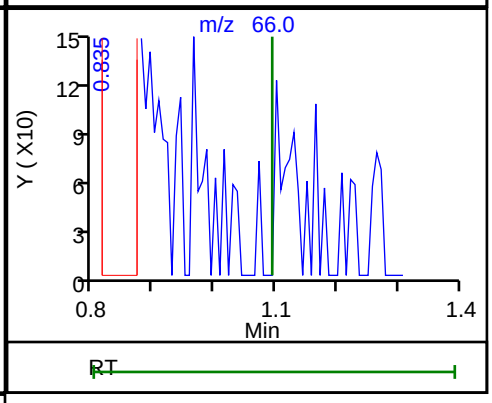
10 Chloroethane, CAS: 75-00-3

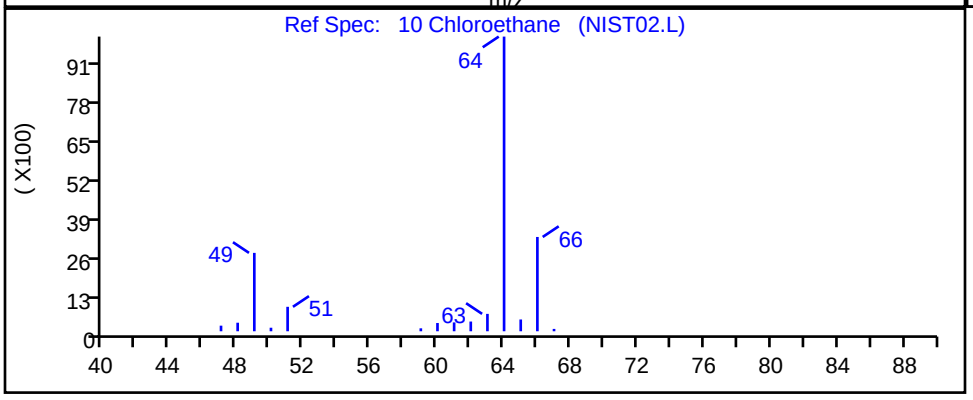
Processing Results











RT	Mass	Response	Amount
0.84	64.00	15980	8.923925
0.84	66.00	799	

Reviewer: sgroa, 09-Sep-2020 20:19:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

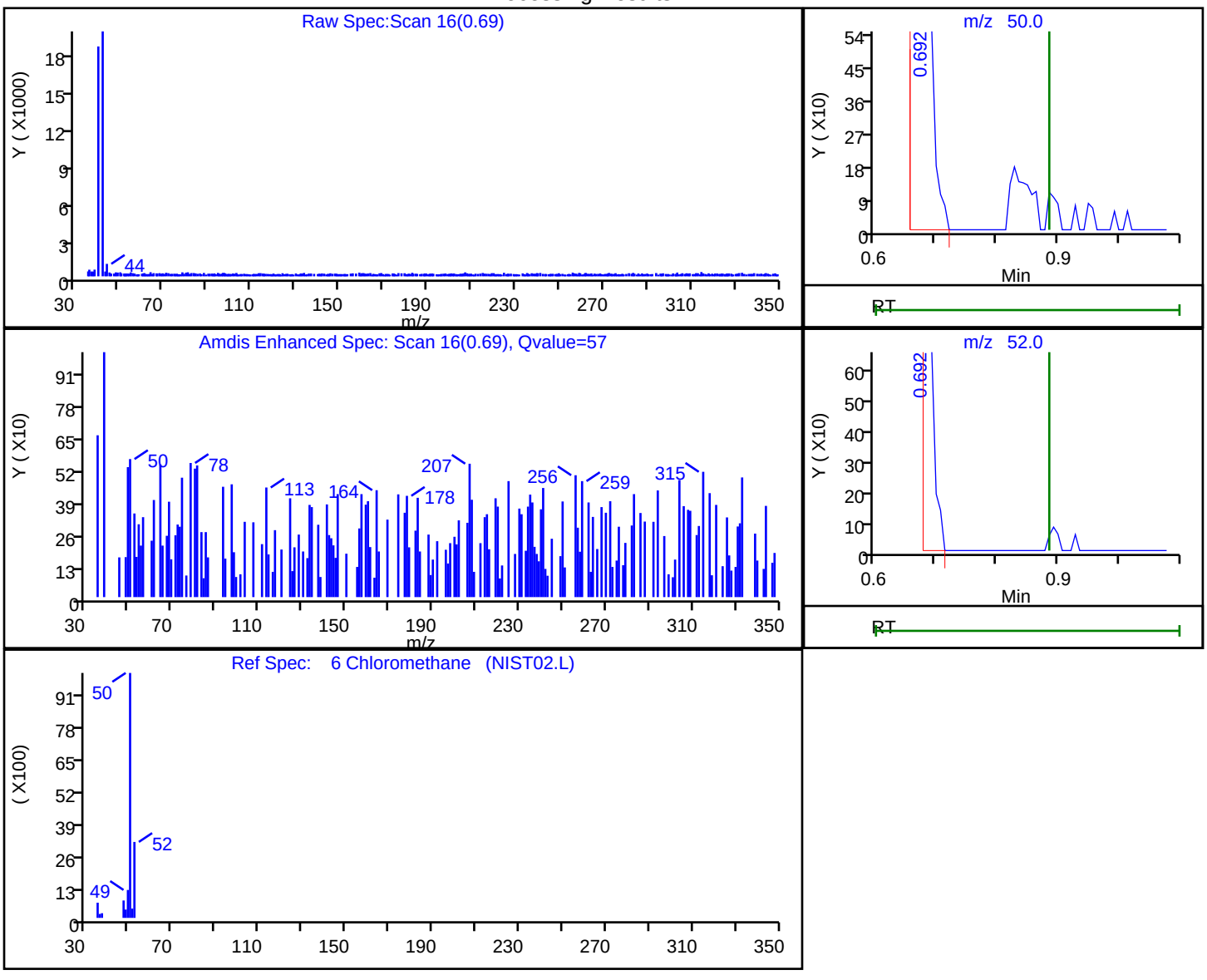
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D
Injection Date: 09-Sep-2020 21:01:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.69	50.00	964	0.209558
0.69	52.00	638	

Reviewer: sgroa, 09-Sep-2020 20:19:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

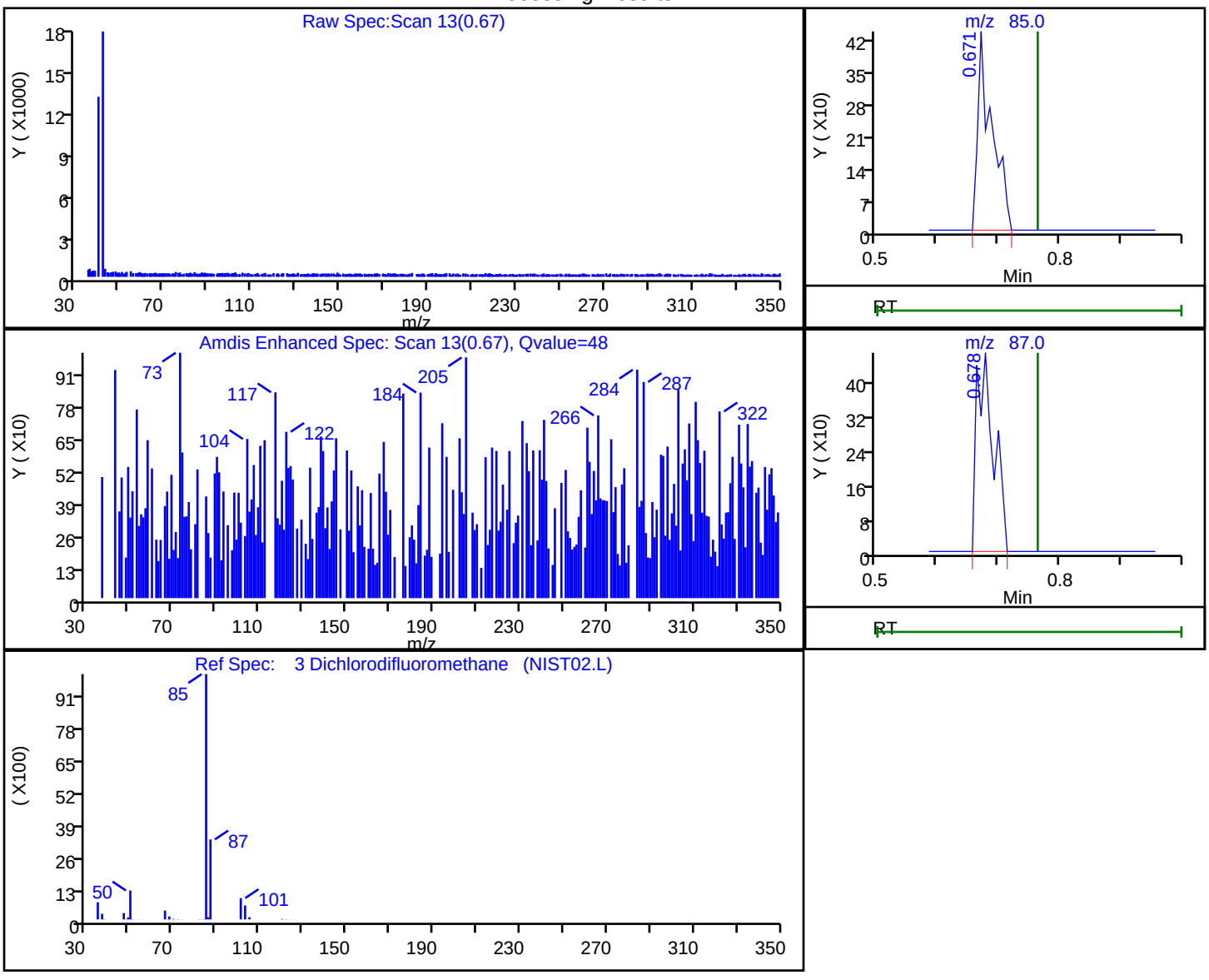
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D
Injection Date: 09-Sep-2020 21:01:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.67	85.00	714	0.216691
0.68	87.00	892	

Reviewer: xuyvo, 10-Sep-2020 10:51:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

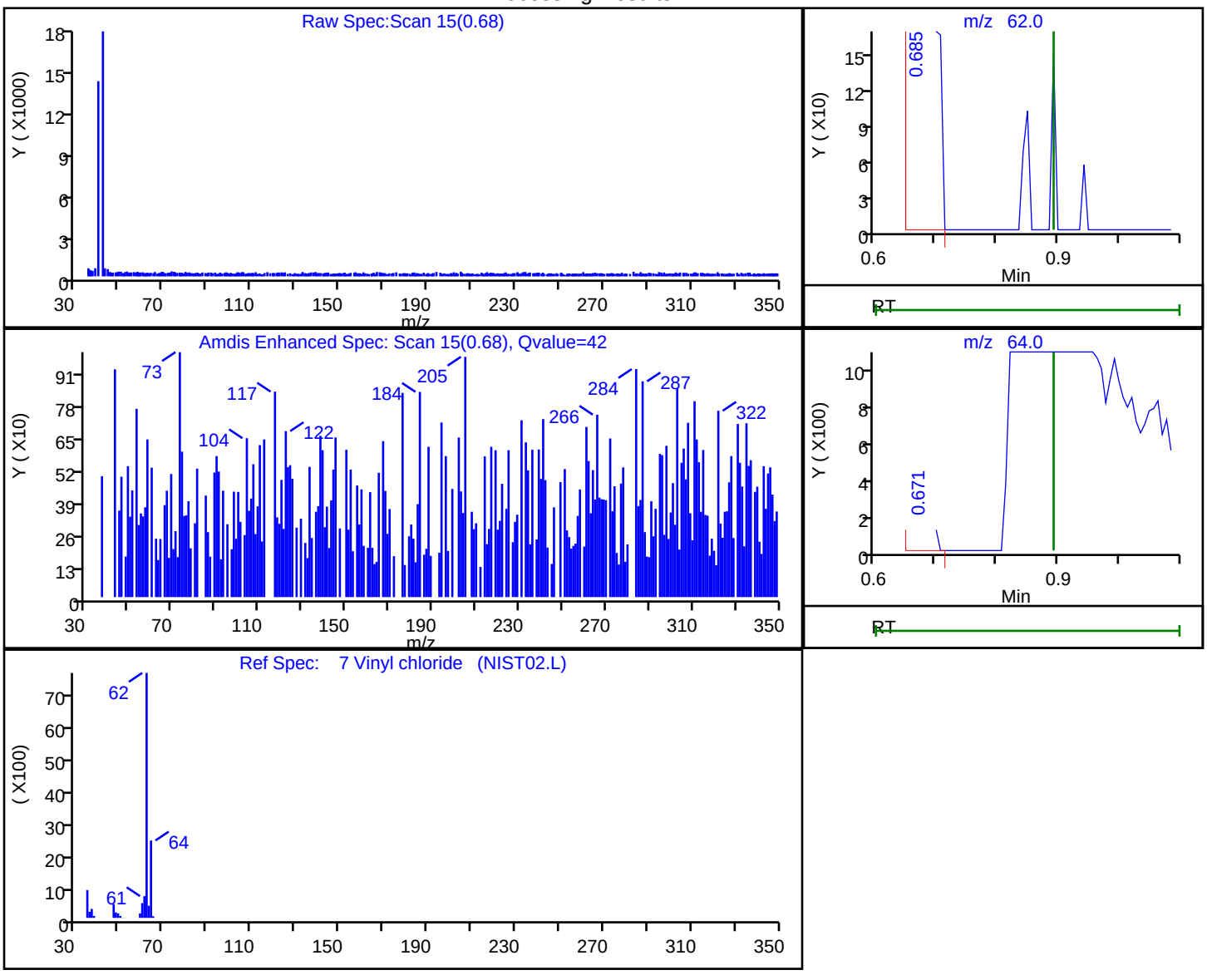
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D
Injection Date: 09-Sep-2020 21:01:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.68	62.00	700	0.207690
0.67	64.00	781	

Reviewer: sgroa, 09-Sep-2020 20:19:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

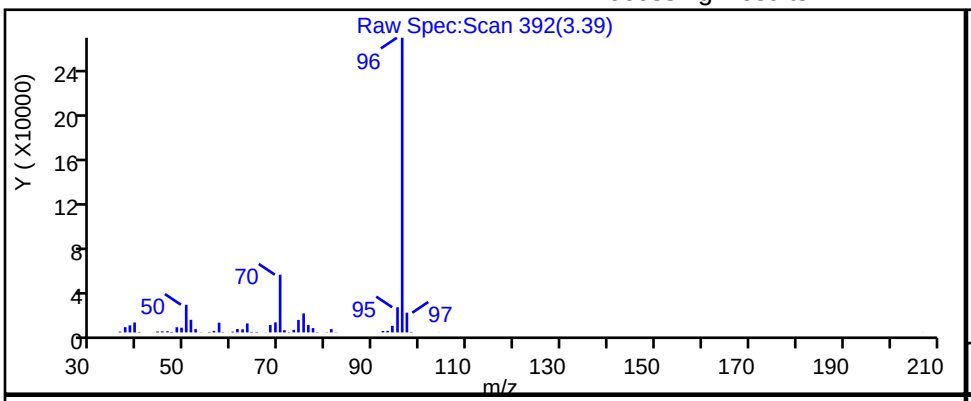
User Disabled Compound Report

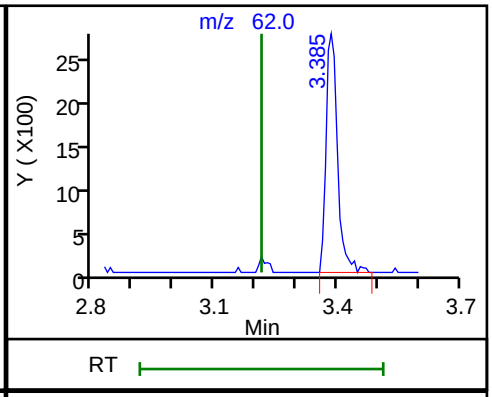
Eurofins TestAmerica, Edison

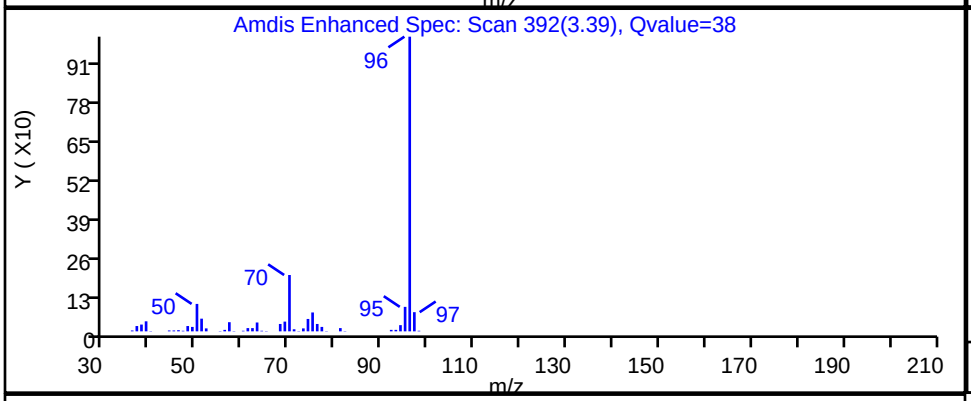
Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79538.D
Injection Date: 09-Sep-2020 21:01:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

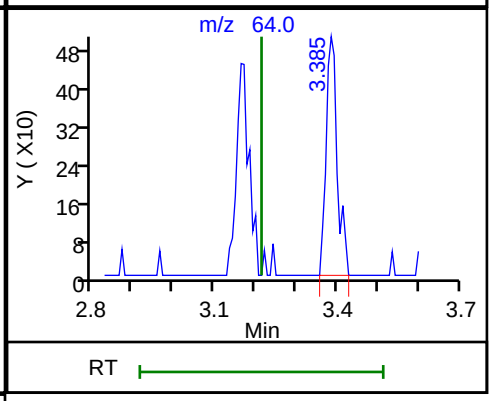
63 1,2-Dichloroethane, CAS: 107-06-2

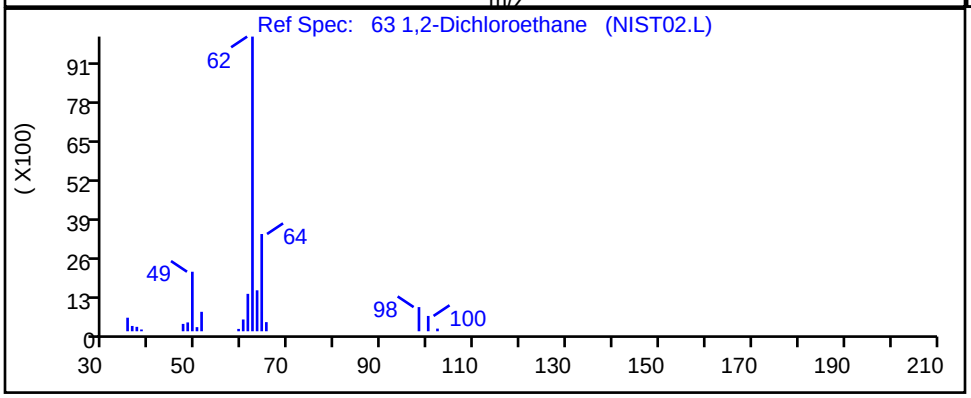
Processing Results











RT	Mass	Response	Amount
3.39	62.00	5499	2.013277
3.39	64.00	970	

Reviewer: sgroa, 09-Sep-2020 20:20:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722597/4

Matrix: Water Lab File ID: P79482.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 20:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.7		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	18.7		1.0	0.43
75-34-3	1,1-Dichloroethane	20.2		1.0	0.26
75-35-4	1,1-Dichloroethene	20.7		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	17.3		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	19.3		1.0	0.37
78-87-5	1,2-Dichloropropane	19.5		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.0		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.7		1.0	0.33
123-91-1	1,4-Dioxane	434		50	28
78-93-3	2-Butanone (MEK)	119		5.0	1.9
591-78-6	2-Hexanone	125		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	123		5.0	1.3
67-64-1	Acetone	98.2		5.0	4.4
71-43-2	Benzene	19.9		1.0	0.20
75-25-2	Bromoform	18.1		1.0	0.54
74-83-9	Bromomethane	32.6		1.0	0.55
75-15-0	Carbon disulfide	19.5		1.0	0.82
56-23-5	Carbon tetrachloride	22.5		1.0	0.21
108-90-7	Chlorobenzene	20.3		1.0	0.38
74-97-5	Chlorobromomethane	20.3		1.0	0.41
124-48-1	Chlorodibromomethane	18.9		1.0	0.28
75-00-3	Chloroethane	20.2		1.0	0.32
67-66-3	Chloroform	19.8		1.0	0.33
74-87-3	Chloromethane	18.7		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	18.9		1.0	0.22
110-82-7	Cyclohexane	20.3		1.0	0.32
75-27-4	Dichlorobromomethane	19.9		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.9		1.0	0.31
100-41-4	Ethylbenzene	20.7		1.0	0.30
106-93-4	Ethylene Dibromide	18.9		1.0	0.50
98-82-8	Isopropylbenzene	20.7		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722597/4

Matrix: Water Lab File ID: P79482.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 20:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	48.2		5.0	0.79
1634-04-4	Methyl tert-butyl ether	19.2		1.0	0.47
108-87-2	Methylcyclohexane	21.4		1.0	0.26
75-09-2	Methylene Chloride	20.1		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	21.3		1.0	0.30
95-47-6	o-Xylene	20.4		1.0	0.36
100-42-5	Styrene	20.7		1.0	0.42
127-18-4	Tetrachloroethene	21.0		1.0	0.25
108-88-3	Toluene	20.2		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.7		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.4		1.0	0.49
79-01-6	Trichloroethene	20.5		1.0	0.31
75-69-4	Trichlorofluoromethane	20.7		1.0	0.32
75-01-4	Vinyl chloride	19.4		1.0	0.17
107-06-2	1,2-Dichloroethane	18.2		1.0	0.43
95-50-1	1,2-Dichlorobenzene	20.7		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-123
460-00-4	4-Bromofluorobenzene	100		76-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-124
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79482.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Sep-2020 20:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0116444-004
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 14:26:26 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: xuyvo Date: 09-Sep-2020 14:26:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	99	76192	20.0	19.9	
6 Chloromethane	50	0.885	0.886	-0.001	91	99846	20.0	18.7	
8 Butadiene	54	0.885	0.886	-0.001	96	66975	20.0	18.8	
7 Vinyl chloride	62	0.893	0.893	0.000	97	75921	20.0	19.4	
9 Bromomethane	94	1.036	1.036	0.000	99	36675	20.0	32.6	
10 Chloroethane	64	1.093	1.093	0.000	99	42131	20.0	20.2	
11 Pentane	72	1.143	1.143	0.000	96	20881	40.0	54.8	
12 Trichlorofluoromethane	101	1.143	1.143	0.000	61	73937	20.0	20.7	
13 Dichlorofluoromethane	67	1.186	1.179	0.007	98	94910	20.0	19.7	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	97	84925	20.0	20.6	
15 Ethyl ether	59	1.294	1.294	0.000	95	33198	20.0	17.3	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	98	52975	20.0	20.7	
16 Ethanol	46	1.401	1.401	0.000	23	6508	800.0	885.3	
19 Carbon disulfide	76	1.401	1.401	0.000	99	194913	20.0	19.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	94	52721	20.0	21.1	
22 Iodomethane	142	1.466	1.466	0.000	96	40229	20.0	9.94	
23 Cyclopentene	67	1.537	1.537	0.000	96	148437	20.0	20.9	
24 Acrolein	56	1.552	1.559	-0.007	90	7672	40.0	44.6	
25 3-Chloro-1-propene	76	1.623	1.623	0.000	94	32461	20.0	19.9	
26 Isopropyl alcohol	45	1.652	1.645	0.007	96	13905	200.0	194.4	
27 Methylene Chloride	84	1.695	1.688	0.007	92	61888	20.0	20.1	
28 Acetone	43	1.709	1.709	0.000	88	35161	100.0	98.2	
29 trans-1,2-Dichloroethene	96	1.774	1.767	0.007	93	60475	20.0	20.7	
30 Methyl acetate	43	1.781	1.781	0.000	99	41631	40.0	48.2	
31 Hexane	86	1.810	1.817	-0.007	91	16240	20.0	23.0	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	95	114915	20.0	19.2	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	88603	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	100	21841	200.0	225.2	
35 Acetonitrile	41	1.981	1.974	0.007	100	33497	200.0	189.1	
36 Isopropyl ether	45	2.046	2.046	0.000	98	180832	20.0	19.3	
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	90	55031	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	2.118	2.118	0.000	99	109476	20.0	20.2	
39 Acrylonitrile	53	2.146	2.146	0.000	95	126982	200.0	180.4	
40 Tert-butyl ethyl ether	59	2.268	2.268	0.000	89	144797	20.0	18.8	
41 Vinyl acetate	43	2.282	2.282	0.000	100	144045	40.0	34.5	
42 cis-1,2-Dichloroethene	96	2.454	2.461	-0.007	98	64513	20.0	19.9	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	70223	20.0	19.1	
44 Cyclohexane	56	2.583	2.583	0.000	90	110427	20.0	20.3	
45 Chlorobromomethane	128	2.590	2.590	0.000	72	28652	20.0	20.3	
46 Chloroform	83	2.648	2.648	0.000	99	96181	20.0	19.8	
47 Carbon tetrachloride	117	2.734	2.734	0.000	98	64546	20.0	22.5	
48 Ethyl acetate	70	2.741	2.741	0.000	98	7280	40.0	51.0	
49 Methyl acrylate	55	2.748	2.748	0.000	85	25386	20.0	16.6	
50 Tetrahydrofuran	42	2.755	2.748	0.007	95	21899	40.0	44.0	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	114892	50.0	46.9	
52 1,1,1-Trichloroethane	97	2.777	2.777	-0.001	98	81151	20.0	20.7	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	110078	250.0	250.0	
54 2-Butanone (MEK)	72	2.862	2.863	-0.001	100	19155	100.0	119.1	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	97	86158	20.0	20.4	
56 Isooctane	57	2.956	2.956	0.000	99	182106	20.0	21.2	
57 n-Heptane	57	3.049	3.049	0.000	93	45739	20.0	21.7	
58 Benzene	78	3.049	3.049	0.000	95	255682	20.0	19.9	
59 Propionitrile	54	3.070	3.070	0.000	96	41235	200.0	219.3	
60 Methacrylonitrile	67	3.092	3.085	0.007	90	140342	200.0	179.8	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	111651	50.0	45.4	
62 Tert-amyl methyl ether	73	3.156	3.156	0.000	98	120370	20.0	18.7	
63 1,2-Dichloroethane	62	3.206	3.214	-0.008	97	57649	20.0	18.2	
64 Isobutyl alcohol	43	3.285	3.278	0.007	96	23356	500.0	493.0	
65 t-Amyl alcohol	59	3.342	3.350	-0.008	92	15430	200.0	200.7	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	568410	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	56091	20.0	15.6	
68 Methylcyclohexane	83	3.507	3.507	0.000	96	107246	20.0	21.4	
69 Trichloroethene	130	3.536	3.536	0.000	97	62825	20.0	20.5	
70 2-ethoxy-2-methyl butane	59	3.765	3.765	0.000	93	120054	20.0	19.0	
71 Dibromomethane	93	3.894	3.894	0.000	95	25608	20.0	18.7	
72 n-Butanol	56	3.908	3.915	-0.007	91	12390	500.0	446.3	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	59902	20.0	19.5	
75 Dichlorobromomethane	83	4.066	4.059	0.007	99	67065	20.0	19.9	
74 Ethyl acrylate	55	4.066	4.066	0.000	53	35479	20.0	17.3	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	85	12814	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.252	0.000	90	17854	40.0	39.0	
78 1,4-Dioxane	88	4.259	4.266	-0.007	34	6417	400.0	434.2	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	38769	20.0	16.8	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	97	6817	20.0	11.7	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	91	79622	20.0	18.9	
$ 82 Toluene-d8 (Surr)	98	4.882	4.883	0.000	99	504962	50.0	47.5	
83 Toluene	91	4.933	4.940	-0.007	93	264688	20.0	20.2	
84 Epichlorohydrin	57	4.983	4.983	0.000	97	12053	400.0	313.1	
85 2-Nitropropane	41	5.190	5.191	-0.001	99	9817	40.0	32.2	
86 Tetrachloroethene	166	5.362	5.355	0.007	97	64625	20.0	21.0	
87 4-Methyl-2-pentanone (MIBK)	43	5.398	5.405	-0.007	95	139675	100.0	122.7	
88 trans-1,3-Dichloropropene	75	5.434	5.441	-0.007	99	65020	20.0	19.4	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	97	33255	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethyl methacrylate	69	5.692	5.692	0.000	89	44094	20.0	18.3	
91 Chlorodibromomethane	129	5.799	5.799	0.000	98	43474	20.0	18.9	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	93	68539	20.0	18.5	
93 Ethylene Dibromide	107	6.043	6.043	0.000	97	36222	20.0	18.9	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	39196	20.0	15.8	
95 2-Hexanone	43	6.458	6.458	0.000	95	95255	100.0	124.6	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	412206	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	166586	20.0	20.3	
98 Ethylbenzene	106	6.831	6.831	0.000	98	95021	20.0	20.7	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.852	0.007	96	51019	20.0	20.1	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	114932	20.0	21.3	
101 o-Xylene	106	7.626	7.626	0.000	95	111087	20.0	20.4	
102 Bromoform	173	7.690	7.690	0.000	96	23504	20.0	18.1	
103 Styrene	104	7.712	7.719	-0.007	97	180708	20.0	20.7	
104 n-Butyl acrylate	73	8.056	8.049	0.007	97	24912	20.0	17.1	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	292995	20.0	20.7	
106 Amyl acetate (mixed isomers)	43	8.471	8.471	0.000	91	56974	20.0	17.7	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	93	166530	50.0	49.9	
108 Bromobenzene	156	8.586	8.586	0.000	96	68314	20.0	20.6	
109 N-Propylbenzene	91	8.743	8.743	0.000	99	351444	20.0	21.2	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	98	43345	20.0	18.9	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	232459	20.0	20.3	
112 4-Ethyltoluene	105	8.930	8.930	0.000	98	289265	20.0	21.0	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	11770	20.0	19.4	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	238277	20.0	20.7	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.166	-0.007	39	8995	20.0	20.5	a
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	211935	20.0	21.1	
117 tert-Butylbenzene	119	9.546	9.546	0.000	95	207907	20.0	20.9	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	242940	20.0	20.5	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	59747	20.0	18.7	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	319347	20.0	21.2	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	97	137799	20.0	21.0	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	267958	20.0	21.0	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	224246	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.248	0.000	96	142439	20.0	20.7	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	243114	20.0	20.2	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	95	233243	20.0	20.0	
127 Benzyl chloride	126	10.713	10.713	0.000	97	14256	20.0	20.4	
128 p-Diethylbenzene	119	10.727	10.728	-0.001	94	132567	20.0	20.7	
129 n-Butylbenzene	91	10.813	10.814	-0.001	98	240763	20.0	20.7	
130 1,2-Dichlorobenzene	146	10.914	10.914	0.000	97	124106	20.0	20.7	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	228394	20.0	20.4	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	93	7081	20.0	18.5	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	98	98753	20.0	20.8	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	77034	20.0	19.3	
135 Hexachlorobutadiene	225	12.841	12.841	0.000	97	34320	20.0	19.5	
136 Naphthalene	128	13.127	13.127	0.000	100	123495	20.0	16.8	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	56433	20.0	17.3	
S 138 1,2-Dichloroethene, Total	100				0		40.0	40.6	
S 139 1,3-Dichloropropene, Total	100				0		40.0	38.3	
S 140 Xylenes, Total	100				0		40.0	41.7	
S 142 Total BTEX	1				0		100.0	102.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 09-Sep-2020 14:26:29 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79482.D

Injection Date: 08-Sep-2020 20:12:30 Instrument ID: CVOAMS13 Operator ID:

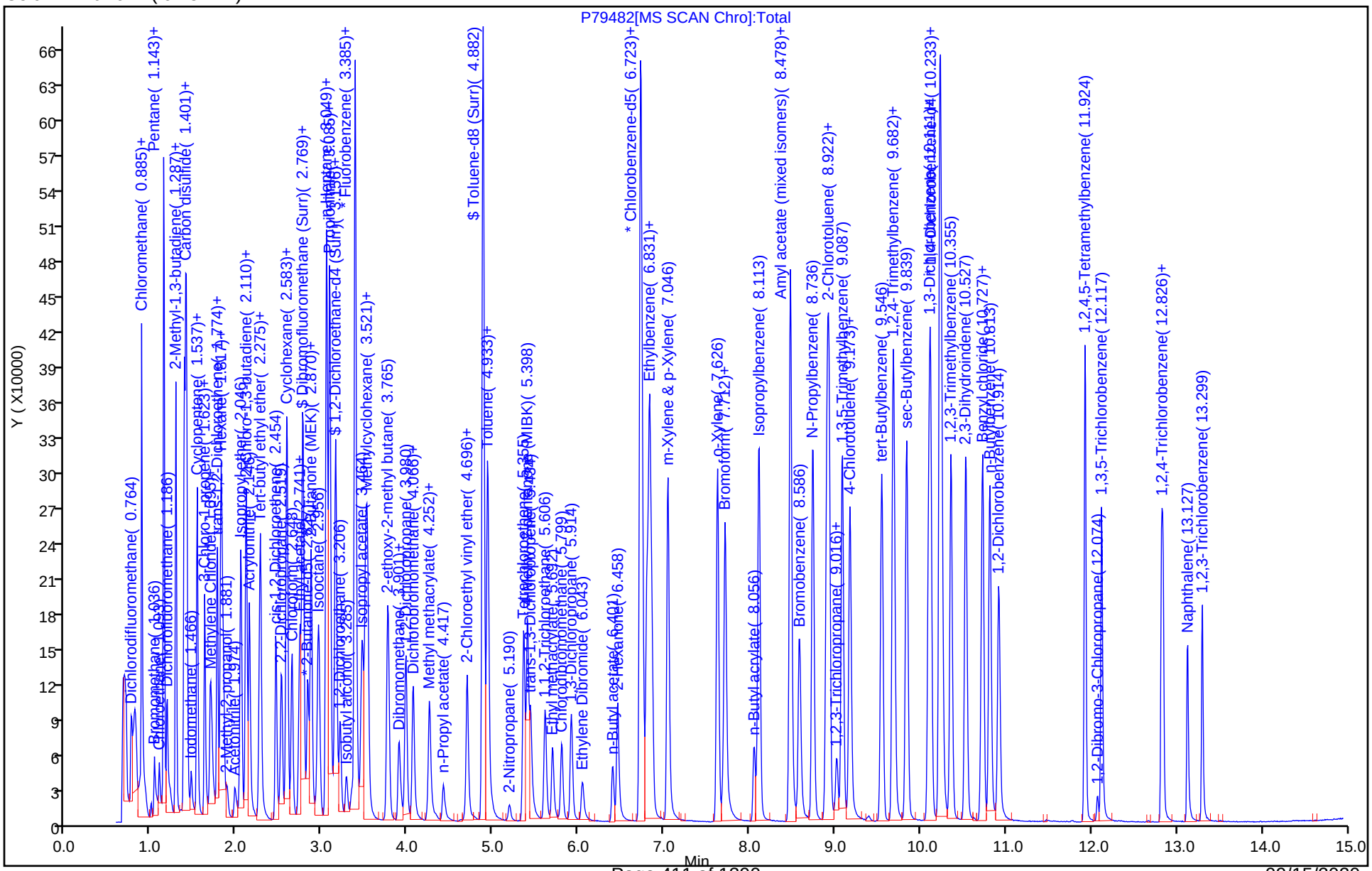
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722709/4

Matrix: Water Lab File ID: P79507.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 08:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.0		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.3		1.0	0.43
75-34-3	1,1-Dichloroethane	19.2		1.0	0.26
75-35-4	1,1-Dichloroethene	20.3		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	18.4		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.37
78-87-5	1,2-Dichloropropane	19.1		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.6		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.7		1.0	0.33
123-91-1	1,4-Dioxane	432		50	28
78-93-3	2-Butanone (MEK)	103		5.0	1.9
591-78-6	2-Hexanone	108		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	103		5.0	1.3
67-64-1	Acetone	87.0		5.0	4.4
71-43-2	Benzene	18.7		1.0	0.20
75-25-2	Bromoform	18.9		1.0	0.54
74-83-9	Bromomethane	18.3		1.0	0.55
75-15-0	Carbon disulfide	19.2		1.0	0.82
56-23-5	Carbon tetrachloride	21.8		1.0	0.21
108-90-7	Chlorobenzene	19.4		1.0	0.38
74-97-5	Chlorobromomethane	20.3		1.0	0.41
124-48-1	Chlorodibromomethane	19.6		1.0	0.28
75-00-3	Chloroethane	18.5		1.0	0.32
67-66-3	Chloroform	19.7		1.0	0.33
74-87-3	Chloromethane	17.9		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	19.8		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	19.0		1.0	0.22
110-82-7	Cyclohexane	20.2		1.0	0.32
75-27-4	Dichlorobromomethane	19.5		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.9		1.0	0.31
100-41-4	Ethylbenzene	19.8		1.0	0.30
106-93-4	Ethylene Dibromide	20.0		1.0	0.50
98-82-8	Isopropylbenzene	20.0		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722709/4

Matrix: Water Lab File ID: P79507.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 08:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	38.4		5.0	0.79
1634-04-4	Methyl tert-butyl ether	20.5		1.0	0.47
108-87-2	Methylcyclohexane	21.4		1.0	0.26
75-09-2	Methylene Chloride	20.2		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	20.6		1.0	0.30
95-47-6	o-Xylene	19.5		1.0	0.36
100-42-5	Styrene	20.1		1.0	0.42
127-18-4	Tetrachloroethene	20.3		1.0	0.25
108-88-3	Toluene	19.6		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.5		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.5		1.0	0.49
79-01-6	Trichloroethene	20.6		1.0	0.31
75-69-4	Trichlorofluoromethane	21.6		1.0	0.32
75-01-4	Vinyl chloride	18.6		1.0	0.17
107-06-2	1,2-Dichloroethane	18.9		1.0	0.43
95-50-1	1,2-Dichlorobenzene	20.0		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	21.9		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-123
460-00-4	4-Bromofluorobenzene	104		76-120
1868-53-7	Dibromofluoromethane (Surr)	98		77-124
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79507.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Sep-2020 08:57:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0116470-004
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 11:14:21 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: moroneyc Date: 09-Sep-2020 08:56:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	99	74284	20.0	19.9	
6 Chloromethane	50	0.893	0.885	0.008	94	93505	20.0	17.9	
8 Butadiene	54	0.893	0.885	0.008	92	61535	20.0	17.7	
7 Vinyl chloride	62	0.893	0.893	0.000	62	70943	20.0	18.6	
9 Bromomethane	94	1.036	1.036	0.000	99	27269	20.0	18.3	
10 Chloroethane	64	1.093	1.093	0.000	99	37529	20.0	18.5	
11 Pentane	72	1.150	1.143	0.007	95	20486	40.0	41.9	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	61	75346	20.0	21.6	
13 Dichlorofluoromethane	67	1.186	1.179	0.007	98	87453	20.0	18.7	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	-0.001	96	81197	20.0	20.3	
15 Ethyl ether	59	1.294	1.294	0.000	94	34640	20.0	18.5	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	50622	20.0	20.3	
16 Ethanol	46	1.401	1.401	0.000	28	7376	800.0	782.5	
19 Carbon disulfide	76	1.408	1.401	0.007	99	186838	20.0	19.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	88	51739	20.0	21.2	
22 Iodomethane	142	1.466	1.466	0.000	96	39776	20.0	10.1	
23 Cyclopentene	67	1.537	1.537	0.000	96	146819	20.0	21.3	
24 Acrolein	56	1.559	1.559	0.000	94	9368	40.0	42.4	
25 3-Chloro-1-propene	76	1.630	1.623	0.007	94	31378	20.0	19.7	
26 Isopropyl alcohol	45	1.652	1.652	0.000	97	16166	200.0	176.3	
27 Methylene Chloride	84	1.695	1.688	0.007	91	60515	20.0	20.2	
28 Acetone	43	1.709	1.709	0.000	88	41207	100.0	87.0	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	94	55565	20.0	19.5	
30 Methyl acetate	43	1.781	1.781	0.000	98	42461	40.0	38.4	
31 Hexane	86	1.817	1.817	0.000	91	16130	20.0	23.5	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	95	119414	20.0	20.5	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	113614	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.895	1.888	0.007	99	25977	200.0	208.9	
35 Acetonitrile	41	1.981	1.974	0.007	99	38428	200.0	169.2	
36 Isopropyl ether	45	2.053	2.046	0.007	97	175406	20.0	19.2	
37 2-Chloro-1,3-butadiene	88	2.110	2.103	0.007	89	52929	20.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	2.117	2.117	0.000	99	101372	20.0	19.2	
39 Acrylonitrile	53	2.153	2.146	0.007	94	135271	200.0	197.4	
40 Tert-butyl ethyl ether	59	2.275	2.268	0.007	89	144680	20.0	19.2	
41 Vinyl acetate	43	2.282	2.282	0.000	100	156404	40.0	38.4	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	62377	20.0	19.8	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	67978	20.0	19.0	
44 Cyclohexane	56	2.590	2.583	0.007	90	106824	20.0	20.2	
45 Chlorobromomethane	128	2.590	2.590	0.000	84	28012	20.0	20.3	
46 Chloroform	83	2.647	2.648	-0.001	99	93214	20.0	19.7	
47 Carbon tetrachloride	117	2.733	2.733	0.000	97	61066	20.0	21.8	
48 Ethyl acetate	70	2.748	2.741	0.007	99	7879	40.0	41.8	
49 Methyl acrylate	55	2.748	2.748	0.000	94	28845	20.0	19.3	
50 Tetrahydrofuran	42	2.755	2.755	0.000	96	25120	40.0	38.2	
$ 51 Dibromofluoromethane (Surr)	113	2.776	2.769	0.007	98	116509	50.0	48.9	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	98	76345	20.0	20.0	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	145323	250.0	250.0	
54 2-Butanone (MEK)	72	2.862	2.862	0.000	99	21929	100.0	103.3	
55 1,1-Dichloropropene	75	2.877	2.870	0.007	97	82369	20.0	20.0	
56 Isooctane	57	2.955	2.956	-0.001	99	176640	20.0	21.1	
57 n-Heptane	57	3.049	3.049	0.000	95	42861	20.0	20.9	
58 Benzene	78	3.056	3.056	0.000	96	238498	20.0	18.7	
59 Propionitrile	54	3.070	3.070	0.000	95	47906	200.0	198.7	
60 Methacrylonitrile	67	3.092	3.092	0.000	90	154852	200.0	203.7	
62 Tert-amyl methyl ether	73	3.163	3.156	0.007	98	124452	20.0	19.9	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	116461	50.0	48.7	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	58476	20.0	18.9	
64 Isobutyl alcohol	43	3.285	3.285	0.000	97	27479	500.0	452.3	
65 t-Amyl alcohol	59	3.349	3.349	0.000	90	20195	200.0	204.8	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	553525	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	69686	20.0	19.8	
68 Methylcyclohexane	83	3.514	3.507	0.007	96	104538	20.0	21.4	
69 Trichloroethene	130	3.536	3.536	0.000	97	61404	20.0	20.6	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	93	117738	20.0	19.1	
71 Dibromomethane	93	3.894	3.894	0.000	97	26325	20.0	19.8	
72 n-Butanol	56	3.915	3.908	0.007	86	14804	500.0	395.0	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	57121	20.0	19.1	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	64062	20.0	19.5	
74 Ethyl acrylate	55	4.066	4.066	0.000	60	38922	20.0	19.4	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	87	16021	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.259	-0.007	89	19101	40.0	42.9	
78 1,4-Dioxane	88	4.266	4.266	0.000	37	7986	400.0	432.2	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	42741	20.0	19.0	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	96	11613	20.0	20.5	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	79063	20.0	19.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	100	495916	50.0	47.2	
83 Toluene	91	4.940	4.940	0.000	93	253360	20.0	19.6	
84 Epichlorohydrin	57	4.975	4.983	-0.008	98	22685	400.0	442.1	a
85 2-Nitropropane	41	5.190	5.190	0.000	97	12138	40.0	40.9	
86 Tetrachloroethene	166	5.362	5.355	0.007	98	61899	20.0	20.3	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.398	0.007	96	154708	100.0	102.9	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	99	64753	20.0	19.5	
89 1,1,2-Trichloroethane	83	5.613	5.606	0.007	96	34008	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethyl methacrylate	69	5.699	5.692	0.007	89	48209	20.0	20.5	
91 Chlorodibromomethane	129	5.799	5.806	-0.007	98	44550	20.0	19.6	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	94	71382	20.0	19.4	
93 Ethylene Dibromide	107	6.050	6.043	0.007	100	37845	20.0	20.0	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	43919	20.0	17.8	
95 2-Hexanone	43	6.458	6.458	0.000	95	108874	100.0	107.9	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	407654	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	96	156909	20.0	19.4	
98 Ethylbenzene	106	6.831	6.831	0.000	98	89895	20.0	19.8	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	96	49950	20.0	19.9	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	109907	20.0	20.6	
101 o-Xylene	106	7.626	7.626	0.000	94	104975	20.0	19.5	
102 Bromoform	173	7.690	7.690	0.000	96	24305	20.0	18.9	
103 Styrene	104	7.712	7.712	0.000	97	173459	20.0	20.1	
104 n-Butyl acrylate	73	8.048	8.056	-0.008	97	27301	20.0	18.9	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	279193	20.0	20.0	
106 Amyl acetate (mixed isomers)	43	8.464	8.464	0.000	91	60507	20.0	18.3	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	94	171219	50.0	51.9	
108 Bromobenzene	156	8.586	8.586	0.000	96	68237	20.0	20.1	
109 N-Propylbenzene	91	8.743	8.736	0.007	99	328521	20.0	19.3	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	96	46940	20.0	19.9	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	216786	20.0	18.5	
112 4-Ethyltoluene	105	8.929	8.929	0.000	98	275360	20.0	19.5	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	97	12783	20.0	20.5	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	226439	20.0	19.2	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.159	0.000	42	9651	20.0	21.4	
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	199250	20.0	19.4	
117 tert-Butylbenzene	119	9.545	9.546	-0.001	96	198440	20.0	19.5	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	233161	20.0	19.2	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	61544	20.0	18.8	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	301797	20.0	19.5	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	131826	20.0	19.6	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	257490	20.0	19.7	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	93	229833	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.247	10.247	0.000	96	138992	20.0	19.7	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	235843	20.0	19.1	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	95	230848	20.0	19.3	
127 Benzyl chloride	126	10.713	10.706	0.007	98	15782	20.0	22.0	
128 p-Diethylbenzene	119	10.727	10.727	0.000	94	129926	20.0	19.8	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	232663	20.0	19.5	
130 1,2-Dichlorobenzene	146	10.914	10.921	-0.007	98	122694	20.0	20.0	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	217945	20.0	19.0	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	91	8603	20.0	21.9	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	98603	20.0	20.2	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	80227	20.0	19.6	
135 Hexachlorobutadiene	225	12.840	12.841	0.000	97	32936	20.0	18.2	
136 Naphthalene	128	13.120	13.127	-0.007	100	145075	20.0	19.2	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	61455	20.0	18.4	
S 138 1,2-Dichloroethene, Total	100				0		40.0	39.3	
S 139 1,3-Dichloropropene, Total	100				0		40.0	38.5	
S 140 Xylenes, Total	100				0		40.0	40.1	
S 142 Total BTEX	1				0		100.0	98.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 11:14:34 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79507.D

Injection Date: 09-Sep-2020 08:57:30 Instrument ID: CVOAMS13 Operator ID:

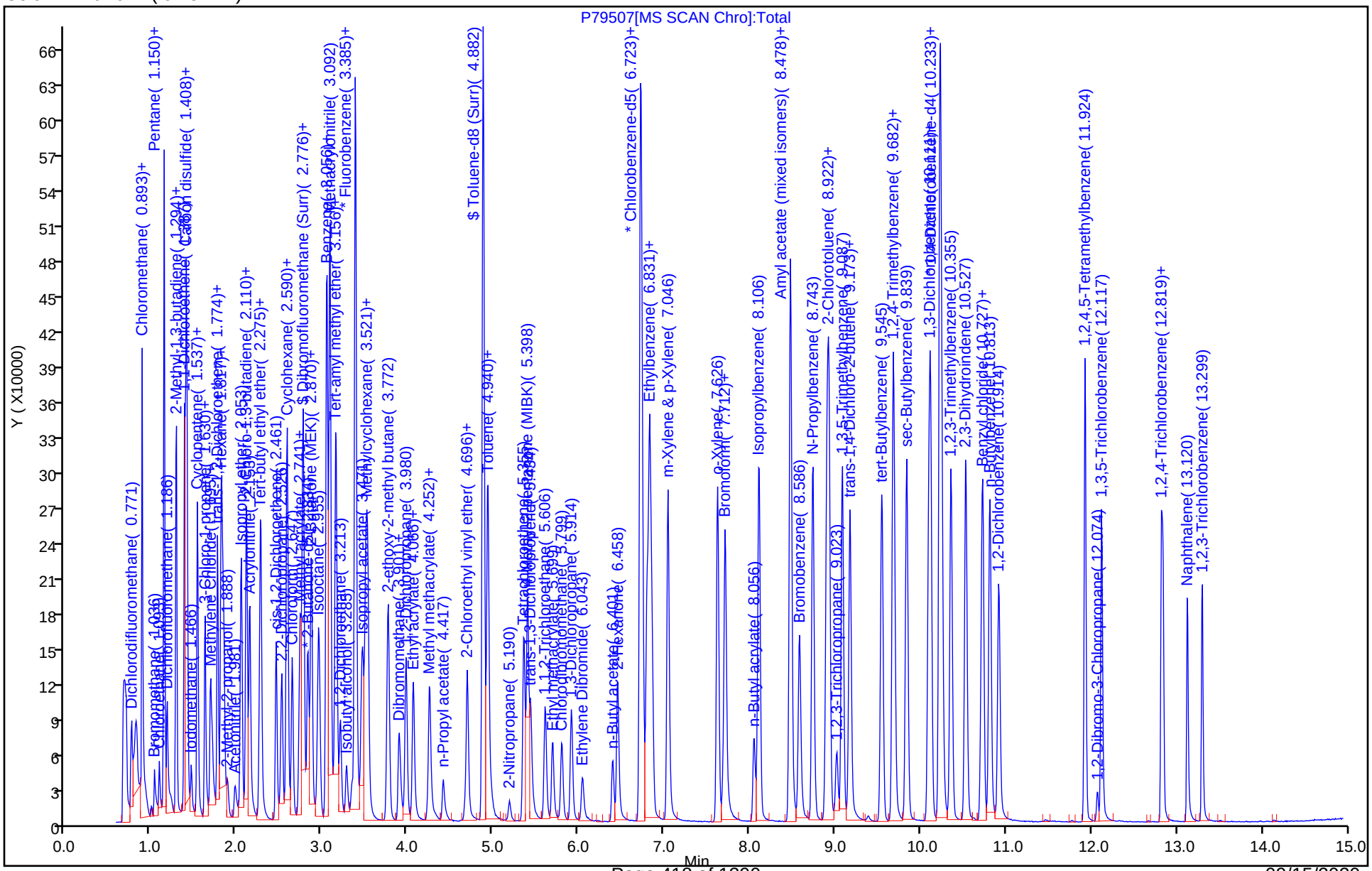
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722834/5

Matrix: Water Lab File ID: P79534.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 19:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.4		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	18.7		1.0	0.43
75-34-3	1,1-Dichloroethane	19.5		1.0	0.26
75-35-4	1,1-Dichloroethene	20.8		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	18.5		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	19.8		1.0	0.37
78-87-5	1,2-Dichloropropane	19.2		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.0		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.6		1.0	0.33
123-91-1	1,4-Dioxane	445		50	28
78-93-3	2-Butanone (MEK)	120		5.0	1.9
591-78-6	2-Hexanone	120		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	118		5.0	1.3
67-64-1	Acetone	100		5.0	4.4
71-43-2	Benzene	19.5		1.0	0.20
75-25-2	Bromoform	19.6		1.0	0.54
74-83-9	Bromomethane	23.7		1.0	0.55
75-15-0	Carbon disulfide	19.4		1.0	0.82
56-23-5	Carbon tetrachloride	22.8		1.0	0.21
108-90-7	Chlorobenzene	20.8		1.0	0.38
74-97-5	Chlorobromomethane	20.1		1.0	0.41
124-48-1	Chlorodibromomethane	19.2		1.0	0.28
75-00-3	Chloroethane	17.2		1.0	0.32
67-66-3	Chloroform	19.8		1.0	0.33
74-87-3	Chloromethane	16.1		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	20.1		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	19.0		1.0	0.22
110-82-7	Cyclohexane	19.7		1.0	0.32
75-27-4	Dichlorobromomethane	19.7		1.0	0.34
75-71-8	Dichlorodifluoromethane	15.3		1.0	0.31
100-41-4	Ethylbenzene	20.7		1.0	0.30
106-93-4	Ethylene Dibromide	20.2		1.0	0.50
98-82-8	Isopropylbenzene	20.8		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722834/5

Matrix: Water Lab File ID: P79534.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 19:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	42.7		5.0	0.79
1634-04-4	Methyl tert-butyl ether	19.5		1.0	0.47
108-87-2	Methylcyclohexane	20.8		1.0	0.26
75-09-2	Methylene Chloride	20.3		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	21.4		1.0	0.30
95-47-6	o-Xylene	20.5		1.0	0.36
100-42-5	Styrene	21.3		1.0	0.42
127-18-4	Tetrachloroethene	21.5		1.0	0.25
108-88-3	Toluene	20.3		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.5		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.4		1.0	0.49
79-01-6	Trichloroethene	21.5		1.0	0.31
75-69-4	Trichlorofluoromethane	19.7		1.0	0.32
75-01-4	Vinyl chloride	17.2		1.0	0.17
107-06-2	1,2-Dichloroethane	18.8		1.0	0.43
95-50-1	1,2-Dichlorobenzene	20.8		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-123
460-00-4	4-Bromofluorobenzene	103		76-120
1868-53-7	Dibromofluoromethane (Surr)	95		77-124
2037-26-5	Toluene-d8 (Surr)	94		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79534.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Sep-2020 19:27:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0116494-005
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: sgroa Date: 09-Sep-2020 19:44:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	55876	20.0	15.3	
6 Chloromethane	50	0.885	0.886	-0.001	99	81785	20.0	16.1	
8 Butadiene	54	0.885	0.886	-0.001	94	53067	20.0	15.7	
7 Vinyl chloride	62	0.893	0.893	0.000	96	63984	20.0	17.2	
9 Bromomethane	94	1.036	1.036	0.000	97	27661	20.0	23.7	
10 Chloroethane	64	1.093	1.093	0.000	99	34101	20.0	17.2	
11 Pentane	72	1.151	1.143	0.007	96	18548	40.0	44.8	
12 Trichlorofluoromethane	101	1.151	1.151	-0.001	60	67127	20.0	19.7	
13 Dichlorofluoromethane	67	1.179	1.186	-0.007	98	80193	20.0	17.5	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	96	77084	20.0	19.7	
15 Ethyl ether	59	1.294	1.294	0.000	97	32727	20.0	17.9	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	50473	20.0	20.8	
16 Ethanol	46	1.401	1.401	0.000	23	6492	800.0	814.2	a
19 Carbon disulfide	76	1.401	1.401	0.000	99	184733	20.0	19.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	95	50885	20.0	21.4	
22 Iodomethane	142	1.466	1.466	0.000	96	46679	20.0	12.1	
23 Cyclopentene	67	1.537	1.537	0.000	95	142462	20.0	21.1	
24 Acrolein	56	1.552	1.559	-0.007	92	7023	40.0	37.6	
25 3-Chloro-1-propene	76	1.623	1.623	0.000	95	31049	20.0	20.0	
26 Isopropyl alcohol	45	1.652	1.645	0.007	97	15581	200.0	200.9	
27 Methylene Chloride	84	1.688	1.688	0.000	90	59593	20.0	20.3	
28 Acetone	43	1.709	1.709	0.000	88	37255	100.0	100.5	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	92	57090	20.0	20.5	
30 Methyl acetate	43	1.781	1.781	0.000	99	39957	40.0	42.7	
31 Hexane	86	1.817	1.817	0.000	92	14665	20.0	21.9	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	94	111071	20.0	19.5	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	96105	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	100	22372	200.0	212.7	
35 Acetonitrile	41	1.974	1.981	-0.007	98	31861	200.0	165.8	
36 Isopropyl ether	45	2.046	2.046	0.000	97	166087	20.0	18.7	
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	89	53122	20.0	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	2.118	2.118	0.000	99	100792	20.0	19.5	
39 Acrylonitrile	53	2.146	2.146	0.000	91	124675	200.0	186.3	
40 Tert-butyl ethyl ether	59	2.268	2.268	0.000	89	136649	20.0	18.6	
41 Vinyl acetate	43	2.282	2.282	0.000	100	136360	40.0	34.3	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	61799	20.0	20.1	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	69162	20.0	19.8	
44 Cyclohexane	56	2.583	2.583	0.000	90	101877	20.0	19.7	
45 Chlorobromomethane	128	2.590	2.590	0.000	89	26989	20.0	20.1	
46 Chloroform	83	2.648	2.648	0.000	99	91566	20.0	19.8	
47 Carbon tetrachloride	117	2.734	2.734	0.000	98	62107	20.0	22.8	
48 Ethyl acetate	70	2.741	2.741	0.000	99	7290	40.0	49.3	
49 Methyl acrylate	55	2.748	2.748	0.000	95	25327	20.0	17.4	
50 Tetrahydrofuran	42	2.748	2.755	-0.007	96	22400	40.0	43.5	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	109979	50.0	47.3	
52 1,1,1-Trichloroethane	97	2.777	2.777	0.000	98	76477	20.0	20.6	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	99	114017	250.0	250.0	
54 2-Butanone (MEK)	72	2.862	2.863	0.000	100	20046	100.0	120.3	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	97	81238	20.0	20.2	
56 Isooctane	57	2.956	2.956	0.000	99	162895	20.0	20.0	
57 n-Heptane	57	3.049	3.049	0.000	94	40524	20.0	20.2	
58 Benzene	78	3.049	3.049	0.000	95	240270	20.0	19.5	
59 Propionitrile	54	3.070	3.070	0.000	95	40635	200.0	199.3	
60 Methacrylonitrile	67	3.092	3.092	0.000	90	139767	200.0	188.3	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	106661	50.0	45.7	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	98	116845	20.0	19.1	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	97	56823	20.0	18.8	
64 Isobutyl alcohol	43	3.285	3.285	0.000	95	23525	500.0	457.8	
65 t-Amyl alcohol	59	3.350	3.350	0.000	91	17032	200.0	204.2	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	540454	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	57005	20.0	16.6	
68 Methylcyclohexane	83	3.507	3.507	0.000	95	99049	20.0	20.8	
69 Trichloroethene	130	3.529	3.536	-0.007	96	62657	20.0	21.5	
70 2-ethoxy-2-methyl butane	59	3.765	3.765	0.000	94	112639	20.0	18.7	
71 Dibromomethane	93	3.894	3.894	0.000	94	25719	20.0	19.8	
72 n-Butanol	56	3.915	3.915	0.000	87	13313	500.0	419.8	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	56147	20.0	19.2	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	63257	20.0	19.7	
74 Ethyl acrylate	55	4.066	4.066	0.000	98	34232	20.0	17.6	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	87	14129	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.252	0.000	88	18667	40.0	42.9	
78 1,4-Dioxane	88	4.259	4.259	0.000	36	7253	400.0	445.1	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	37442	20.0	17.0	
80 2-Chloroethyl vinyl ether	63	4.668	4.675	-0.007	96	8510	20.0	15.4	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	76444	20.0	19.0	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	475653	50.0	46.8	
83 Toluene	91	4.933	4.933	0.000	93	253423	20.0	20.3	
84 Epichlorohydrin	57	4.976	4.983	-0.007	98	16473	400.0	410.2	a
85 2-Nitropropane	41	5.190	5.190	0.000	98	10356	40.0	35.7	
86 Tetrachloroethene	166	5.362	5.362	0.000	97	63392	20.0	21.5	
87 4-Methyl-2-pentanone (MIBK)	43	5.398	5.398	0.000	95	139685	100.0	118.4	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	99	62199	20.0	19.4	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	31898	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethyl methacrylate	69	5.699	5.692	0.007	90	43054	20.0	18.8	
91 Chlorodibromomethane	129	5.799	5.807	-0.007	98	42122	20.0	19.2	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	93	68980	20.0	19.4	
93 Ethylene Dibromide	107	6.043	6.043	0.000	99	37032	20.0	20.2	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	39022	20.0	16.4	
95 2-Hexanone	43	6.458	6.458	0.000	95	94973	100.0	120.0	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	393935	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	97	162647	20.0	20.8	
98 Ethylbenzene	106	6.831	6.831	0.000	98	90995	20.0	20.7	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.852	0.007	96	49286	20.0	20.3	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	110288	20.0	21.4	
101 o-Xylene	106	7.626	7.626	0.000	95	106896	20.0	20.5	
102 Bromoform	173	7.690	7.698	-0.008	96	24390	20.0	19.6	
103 Styrene	104	7.712	7.712	0.000	97	177090	20.0	21.3	
104 n-Butyl acrylate	73	8.049	8.056	-0.007	98	25513	20.0	18.3	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	281234	20.0	20.8	
106 Amyl acetate (mixed isomers)	43	8.464	8.464	0.000	91	56430	20.0	17.7	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	94	163722	50.0	51.3	
108 Bromobenzene	156	8.586	8.586	0.000	95	70227	20.0	21.4	
109 N-Propylbenzene	91	8.736	8.743	-0.007	100	333868	20.0	20.4	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	96	43953	20.0	19.4	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	221591	20.0	19.6	
112 4-Ethyltoluene	105	8.930	8.930	0.000	98	277638	20.0	20.4	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	11901	20.0	19.8	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	233394	20.0	20.5	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.159	0.000	39	9778	20.0	22.5	a
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	202581	20.0	20.4	
117 tert-Butylbenzene	119	9.546	9.546	0.000	95	199597	20.0	20.3	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	234879	20.0	20.0	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	60257	20.0	19.1	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	303715	20.0	20.4	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	135794	20.0	21.0	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	99	259961	20.0	20.7	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	221549	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.248	0.000	96	139969	20.0	20.6	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	241247	20.0	20.3	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	232077	20.0	20.1	
127 Benzyl chloride	126	10.713	10.713	0.000	97	13837	20.0	20.1	
128 p-Diethylbenzene	119	10.727	10.728	-0.001	95	130648	20.0	20.6	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	231484	20.0	20.2	
130 1,2-Dichlorobenzene	146	10.914	10.914	0.000	98	123061	20.0	20.8	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	222936	20.0	20.2	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	91	7530	20.0	19.9	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	99840	20.0	21.3	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	93	77981	20.0	19.8	
135 Hexachlorobutadiene	225	12.841	12.841	0.000	97	34596	20.0	19.9	
136 Naphthalene	128	13.127	13.127	0.000	100	131034	20.0	18.0	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	59792	20.0	18.5	
S 138 1,2-Dichloroethene, Total	100				0		40.0	40.6	
S 139 1,3-Dichloropropene, Total	100				0		40.0	38.4	
S 140 Xylenes, Total	100				0		40.0	42.0	
S 142 Total BTEX	1				0		100.0	102.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 14:25:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79534.D

Injection Date: 09-Sep-2020 19:27:30 Instrument ID: CVOAMS13 Operator ID:

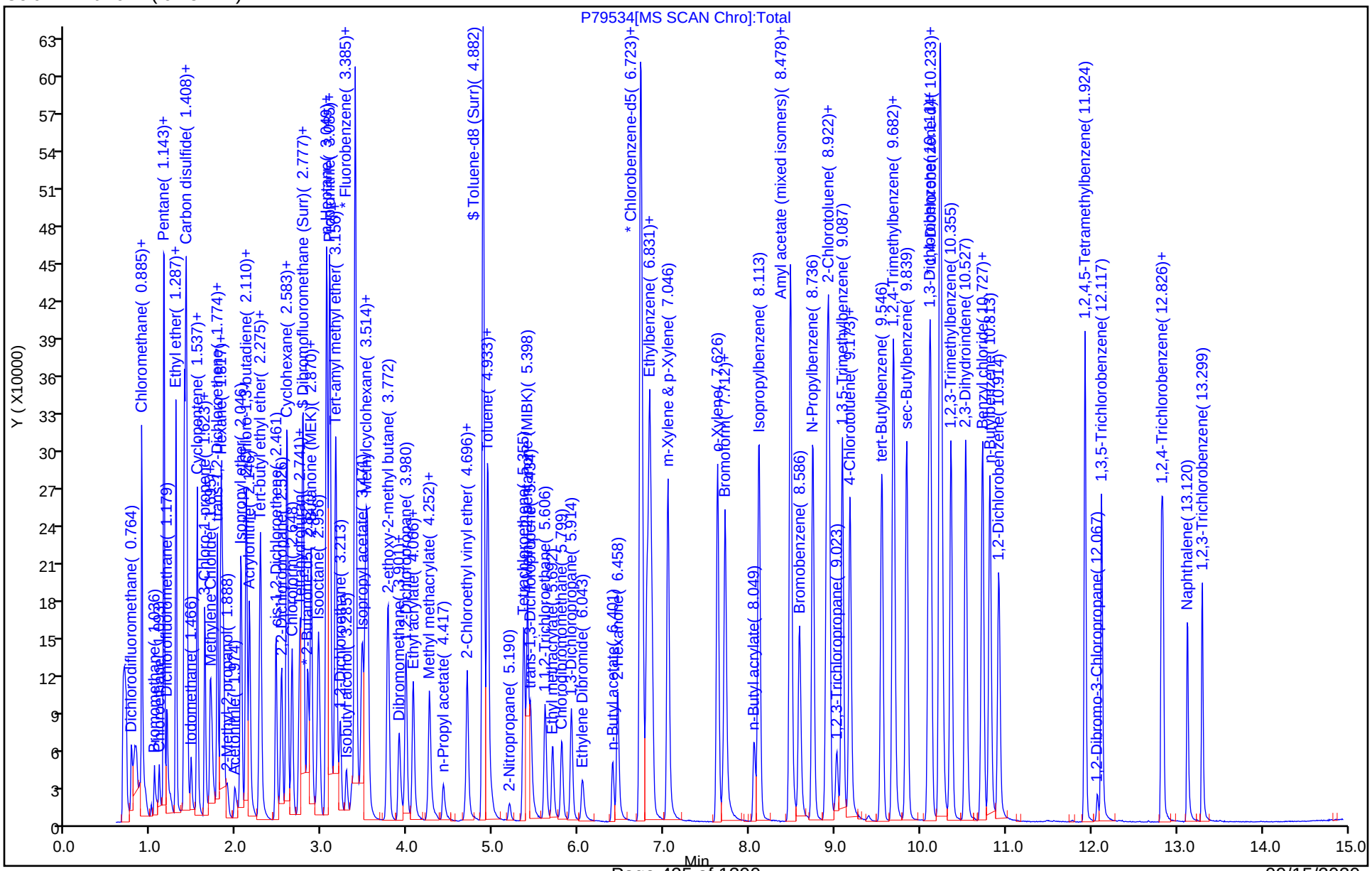
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-722597/5

Matrix: Water Lab File ID: P79483.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 20:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.7		1.0	0.31
79-00-5	1,1,2-Trichloroethane	18.2		1.0	0.43
75-34-3	1,1-Dichloroethane	19.7		1.0	0.26
75-35-4	1,1-Dichloroethene	21.1		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	17.7		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	18.8		1.0	0.37
78-87-5	1,2-Dichloropropane	19.6		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.2		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.9		1.0	0.33
123-91-1	1,4-Dioxane	483		50	28
78-93-3	2-Butanone (MEK)	126		5.0	1.9
591-78-6	2-Hexanone	125		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	124		5.0	1.3
67-64-1	Acetone	107		5.0	4.4
71-43-2	Benzene	19.8		1.0	0.20
75-25-2	Bromoform	17.5		1.0	0.54
74-83-9	Bromomethane	34.5		1.0	0.55
75-15-0	Carbon disulfide	19.9		1.0	0.82
56-23-5	Carbon tetrachloride	22.8		1.0	0.21
108-90-7	Chlorobenzene	20.5		1.0	0.38
74-97-5	Chlorobromomethane	19.7		1.0	0.41
124-48-1	Chlorodibromomethane	18.0		1.0	0.28
75-00-3	Chloroethane	19.9		1.0	0.32
67-66-3	Chloroform	19.6		1.0	0.33
74-87-3	Chloromethane	18.7		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	18.9		1.0	0.22
110-82-7	Cyclohexane	20.4		1.0	0.32
75-27-4	Dichlorobromomethane	19.5		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.8		1.0	0.31
100-41-4	Ethylbenzene	20.9		1.0	0.30
106-93-4	Ethylene Dibromide	18.5		1.0	0.50
98-82-8	Isopropylbenzene	21.0		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-722597/5

Matrix: Water Lab File ID: P79483.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 20:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722597 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	48.0		5.0	0.79
1634-04-4	Methyl tert-butyl ether	18.1		1.0	0.47
108-87-2	Methylcyclohexane	21.6		1.0	0.26
75-09-2	Methylene Chloride	20.3		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	21.7		1.0	0.30
95-47-6	o-Xylene	20.5		1.0	0.36
100-42-5	Styrene	21.1		1.0	0.42
127-18-4	Tetrachloroethene	21.1		1.0	0.25
108-88-3	Toluene	20.4		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.4		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.8		1.0	0.49
79-01-6	Trichloroethene	21.1		1.0	0.31
75-69-4	Trichlorofluoromethane	21.9		1.0	0.32
75-01-4	Vinyl chloride	19.5		1.0	0.17
107-06-2	1,2-Dichloroethane	18.1		1.0	0.43
95-50-1	1,2-Dichlorobenzene	20.7		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-123
460-00-4	4-Bromofluorobenzene	98		76-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-124
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79483.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 08-Sep-2020 20:35:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0116444-005
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 14:26:26 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1060

First Level Reviewer: xuyvo Date: 09-Sep-2020 14:27:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	99	75596	20.0	19.8	
6 Chloromethane	50	0.885	0.886	-0.001	93	99604	20.0	18.7	
8 Butadiene	54	0.885	0.886	-0.001	95	65744	20.0	18.6	
7 Vinyl chloride	62	0.893	0.893	0.000	98	76011	20.0	19.5	
9 Bromomethane	94	1.036	1.036	0.000	99	36350	20.0	34.5	
10 Chloroethane	64	1.093	1.093	0.000	99	41163	20.0	19.9	
11 Pentane	72	1.143	1.143	0.000	96	20590	40.0	55.7	
12 Trichlorofluoromethane	101	1.143	1.143	0.000	62	77794	20.0	21.9	
13 Dichlorofluoromethane	67	1.186	1.179	0.007	99	94803	20.0	19.8	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	96	83739	20.0	20.4	
15 Ethyl ether	59	1.287	1.294	-0.007	96	32493	20.0	17.0	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	53780	20.0	21.1	
16 Ethanol	46	1.401	1.401	0.000	25	6654	800.0	934.0	
19 Carbon disulfide	76	1.401	1.401	0.000	99	197787	20.0	19.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	98	54091	20.0	21.7	
22 Iodomethane	142	1.466	1.466	0.000	97	45596	20.0	11.3	
23 Cyclopentene	67	1.537	1.537	0.000	95	153676	20.0	21.8	
24 Acrolein	56	1.552	1.559	-0.007	93	8269	40.0	49.6	
25 3-Chloro-1-propene	76	1.623	1.623	0.000	94	33496	20.0	20.6	
26 Isopropyl alcohol	45	1.645	1.645	0.000	97	12986	200.0	187.4	
27 Methylene Chloride	84	1.695	1.688	0.007	93	62215	20.0	20.3	
28 Acetone	43	1.709	1.709	0.000	88	35838	100.0	107.1	
29 trans-1,2-Dichloroethene	96	1.766	1.767	-0.001	94	59447	20.0	20.4	
30 Methyl acetate	43	1.781	1.781	0.000	98	40161	40.0	48.0	
31 Hexane	86	1.817	1.817	0.000	91	16105	20.0	22.9	
32 Methyl tert-butyl ether	73	1.824	1.831	-0.007	96	108001	20.0	18.1	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	99	85867	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	98	20556	200.0	218.7	
35 Acetonitrile	41	1.981	1.974	0.007	99	32142	200.0	187.2	
36 Isopropyl ether	45	2.046	2.046	0.000	98	177964	20.0	19.1	
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	91	54113	20.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	2.117	2.118	-0.001	100	106223	20.0	19.7	
39 Acrylonitrile	53	2.146	2.146	0.000	94	123610	200.0	176.5	
40 Tert-butyl ethyl ether	59	2.268	2.268	0.000	89	142028	20.0	18.5	
41 Vinyl acetate	43	2.282	2.282	0.000	100	133631	40.0	32.1	
42 cis-1,2-Dichloroethene	96	2.454	2.461	-0.007	98	63961	20.0	19.9	
43 2,2-Dichloropropane	77	2.519	2.526	-0.007	98	70856	20.0	19.4	
44 Cyclohexane	56	2.583	2.583	0.000	90	110367	20.0	20.4	
45 Chlorobromomethane	128	2.590	2.590	0.000	70	27802	20.0	19.7	
46 Chloroform	83	2.648	2.648	0.000	99	95042	20.0	19.6	
47 Carbon tetrachloride	117	2.733	2.734	-0.001	98	65006	20.0	22.8	
48 Ethyl acetate	70	2.748	2.741	0.007	98	6975	40.0	52.3	
49 Methyl acrylate	55	2.748	2.748	0.000	98	25882	20.0	17.0	
50 Tetrahydrofuran	42	2.748	2.748	0.000	96	21713	40.0	46.7	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	114528	50.0	47.0	
52 1,1,1-Trichloroethane	97	2.776	2.777	-0.001	97	80895	20.0	20.8	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	98	102909	250.0	250.0	
54 2-Butanone (MEK)	72	2.870	2.863	0.007	100	19001	100.0	126.4	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	98	86683	20.0	20.6	
56 Isooctane	57	2.956	2.956	0.000	99	181506	20.0	21.3	
57 n-Heptane	57	3.049	3.049	0.000	89	45580	20.0	21.7	
58 Benzene	78	3.049	3.049	0.000	95	252555	20.0	19.8	
59 Propionitrile	54	3.070	3.070	0.000	97	38573	200.0	211.7	
60 Methacrylonitrile	67	3.084	3.085	-0.001	90	135694	200.0	174.7	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	107776	50.0	44.1	
62 Tert-amyl methyl ether	73	3.156	3.156	0.000	98	116013	20.0	18.1	
63 1,2-Dichloroethane	62	3.206	3.214	-0.008	97	57170	20.0	18.1	
64 Isobutyl alcohol	43	3.278	3.278	0.000	95	22644	500.0	493.2	
65 t-Amyl alcohol	59	3.342	3.350	-0.008	91	13915	200.0	186.7	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	565626	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	56019	20.0	15.6	
68 Methylcyclohexane	83	3.507	3.507	0.000	96	107995	20.0	21.6	
69 Trichloroethene	130	3.529	3.536	-0.007	97	64541	20.0	21.1	
70 2-ethoxy-2-methyl butane	59	3.765	3.765	0.000	94	117829	20.0	18.7	
71 Dibromomethane	93	3.894	3.894	0.000	96	25124	20.0	18.5	
72 n-Butanol	56	3.915	3.915	0.000	86	12348	500.0	459.0	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	94	59926	20.0	19.6	
75 Dichlorobromomethane	83	4.066	4.059	0.007	100	65259	20.0	19.5	
74 Ethyl acrylate	55	4.066	4.066	0.000	98	34180	20.0	16.8	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	82	11441	1000.0	1000.0	
77 Methyl methacrylate	100	4.252	4.252	0.000	90	16077	40.0	35.3	
78 1,4-Dioxane	88	4.266	4.266	0.000	37	6367	400.0	482.5	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	37224	20.0	16.2	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	96	6253	20.0	10.8	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	91	78886	20.0	18.9	
$ 82 Toluene-d8 (Surr)	98	4.882	4.883	0.000	99	503453	50.0	47.9	
83 Toluene	91	4.933	4.940	-0.007	93	263746	20.0	20.4	
84 Epichlorohydrin	57	4.990	4.983	0.007	93	10926	400.0	303.8	
85 2-Nitropropane	41	5.190	5.191	-0.001	99	8972	40.0	29.6	
86 Tetrachloroethene	166	5.355	5.355	0.000	98	64254	20.0	21.1	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.405	0.000	95	132313	100.0	124.3	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	95	62384	20.0	18.8	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	32037	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethyl methacrylate	69	5.692	5.692	0.000	90	42517	20.0	17.7	
91 Chlorodibromomethane	129	5.799	5.799	0.000	99	41020	20.0	18.0	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	94	67387	20.0	18.4	
93 Ethylene Dibromide	107	6.043	6.043	0.000	97	35127	20.0	18.5	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	38126	20.0	15.5	
95 2-Hexanone	43	6.458	6.458	0.000	95	89566	100.0	125.4	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	407770	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	165788	20.0	20.5	
98 Ethylbenzene	106	6.831	6.831	0.000	98	94813	20.0	20.9	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.852	0.007	96	50404	20.0	20.1	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	115510	20.0	21.7	
101 o-Xylene	106	7.626	7.626	0.000	95	110477	20.0	20.5	
102 Bromoform	173	7.697	7.690	0.007	94	22507	20.0	17.5	
103 Styrene	104	7.712	7.719	-0.007	97	182084	20.0	21.1	
104 n-Butyl acrylate	73	8.056	8.049	0.007	98	24385	20.0	17.0	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	293493	20.0	21.0	
106 Amyl acetate (mixed isomers)	43	8.471	8.471	0.000	90	52971	20.0	16.9	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	93	162056	50.0	49.1	
108 Bromobenzene	156	8.586	8.586	0.000	96	68596	20.0	21.2	
109 N-Propylbenzene	91	8.736	8.743	-0.007	99	351612	20.0	21.7	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	96	40871	20.0	18.2	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	231947	20.0	20.8	
112 4-Ethyltoluene	105	8.929	8.930	-0.001	98	290152	20.0	21.6	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	11336	20.0	19.1	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	240002	20.0	21.4	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.166	-0.007	43	8444	20.0	19.7	
116 4-Chlorotoluene	91	9.173	9.173	0.000	98	203927	20.0	20.8	
117 tert-Butylbenzene	119	9.546	9.546	0.000	95	207933	20.0	21.4	
118 1,2,4-Trimethylbenzene	105	9.674	9.682	-0.008	97	242975	20.0	21.0	
119 Butyl Methacrylate	87	9.696	9.696	0.000	92	58732	20.0	18.9	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	315833	20.0	21.5	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	135579	20.0	21.2	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	267057	20.0	21.5	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	218624	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.247	10.248	-0.001	96	140779	20.0	20.9	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	240356	20.0	20.5	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	95	230639	20.0	20.3	
127 Benzyl chloride	126	10.713	10.713	0.000	97	12705	20.0	18.7	
128 p-Diethylbenzene	119	10.727	10.728	-0.001	94	132424	20.0	21.2	
129 n-Butylbenzene	91	10.813	10.814	-0.001	98	243378	20.0	21.5	
130 1,2-Dichlorobenzene	146	10.914	10.914	0.000	98	121044	20.0	20.7	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	226758	20.0	20.8	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	94	6914	20.0	18.5	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	97470	20.0	21.0	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	73269	20.0	18.8	
135 Hexachlorobutadiene	225	12.841	12.841	-0.001	97	34290	20.0	20.0	
136 Naphthalene	128	13.127	13.127	0.000	99	118709	20.0	16.5	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	56220	20.0	17.7	
S 138 1,2-Dichloroethene, Total	100				0		40.0	40.3	
S 139 1,3-Dichloropropene, Total	100				0		40.0	37.7	
S 140 Xylenes, Total	100				0		40.0	42.2	
S 142 Total BTEX	1				0		100.0	103.3	

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 09-Sep-2020 14:27:12 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200908-116444.b\P79483.D

Injection Date: 08-Sep-2020 20:35:30 Instrument ID: CVOAMS13 Operator ID:

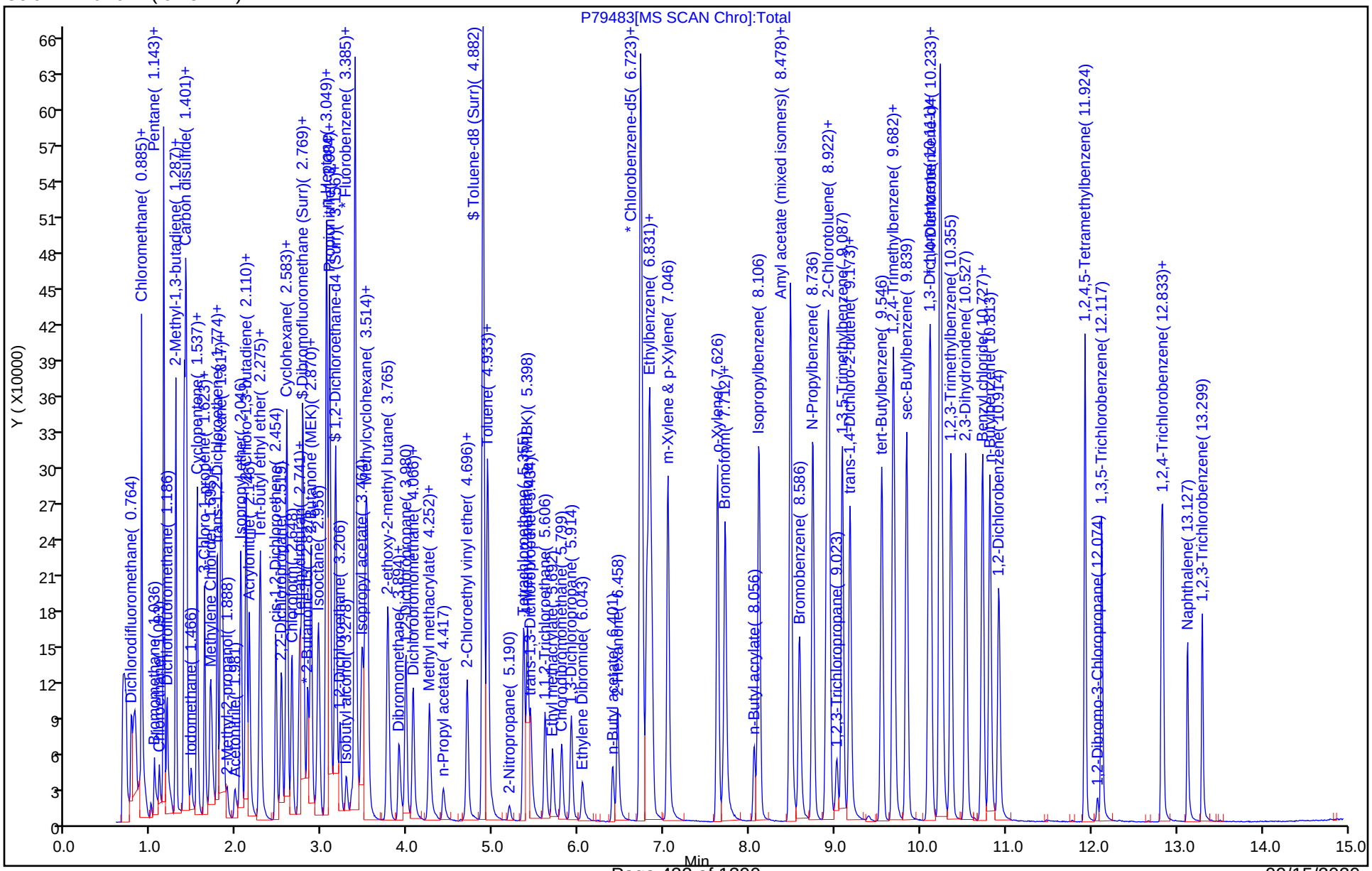
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-722709/5

Matrix: Water Lab File ID: P79508.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 09:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.43
75-34-3	1,1-Dichloroethane	19.2		1.0	0.26
75-35-4	1,1-Dichloroethene	21.0		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	19.2		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.37
78-87-5	1,2-Dichloropropane	19.8		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.3		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.0		1.0	0.33
123-91-1	1,4-Dioxane	478		50	28
78-93-3	2-Butanone (MEK)	106		5.0	1.9
591-78-6	2-Hexanone	109		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	105		5.0	1.3
67-64-1	Acetone	91.9		5.0	4.4
71-43-2	Benzene	19.6		1.0	0.20
75-25-2	Bromoform	20.1		1.0	0.54
74-83-9	Bromomethane	19.4		1.0	0.55
75-15-0	Carbon disulfide	19.5		1.0	0.82
56-23-5	Carbon tetrachloride	22.6		1.0	0.21
108-90-7	Chlorobenzene	20.1		1.0	0.38
74-97-5	Chlorobromomethane	20.4		1.0	0.41
124-48-1	Chlorodibromomethane	20.4		1.0	0.28
75-00-3	Chloroethane	14.9		1.0	0.32
67-66-3	Chloroform	19.7		1.0	0.33
74-87-3	Chloromethane	17.7		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	20.0		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	19.1		1.0	0.22
110-82-7	Cyclohexane	20.4		1.0	0.32
75-27-4	Dichlorobromomethane	19.8		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.9		1.0	0.31
100-41-4	Ethylbenzene	20.4		1.0	0.30
106-93-4	Ethylene Dibromide	21.2		1.0	0.50
98-82-8	Isopropylbenzene	20.6		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-722709/5

Matrix: Water Lab File ID: P79508.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 09:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	38.6		5.0	0.79
1634-04-4	Methyl tert-butyl ether	20.9		1.0	0.47
108-87-2	Methylcyclohexane	21.7		1.0	0.26
75-09-2	Methylene Chloride	20.2		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	20.9		1.0	0.30
95-47-6	o-Xylene	20.2		1.0	0.36
100-42-5	Styrene	20.7		1.0	0.42
127-18-4	Tetrachloroethene	21.4		1.0	0.25
108-88-3	Toluene	20.0		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.9		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	20.5		1.0	0.49
79-01-6	Trichloroethene	21.1		1.0	0.31
75-69-4	Trichlorofluoromethane	21.7		1.0	0.32
75-01-4	Vinyl chloride	19.2		1.0	0.17
107-06-2	1,2-Dichloroethane	19.3		1.0	0.43
95-50-1	1,2-Dichlorobenzene	20.2		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	21.7		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-123
460-00-4	4-Bromofluorobenzene	105		76-120
1868-53-7	Dibromofluoromethane (Surr)	97		77-124
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79508.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Sep-2020 09:20:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0116470-005
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 11:14:21 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: moroneyc Date: 09-Sep-2020 08:57:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	99	74572	20.0	19.9	
6 Chloromethane	50	0.893	0.885	0.008	63	92921	20.0	17.7	
8 Butadiene	54	0.893	0.885	0.008	92	66484	20.0	19.1	
7 Vinyl chloride	62	0.893	0.893	0.000	59	73606	20.0	19.2	
9 Bromomethane	94	1.036	1.036	0.000	98	28432	20.0	19.4	
10 Chloroethane	64	1.093	1.093	0.000	99	30494	20.0	14.9	
11 Pentane	72	1.150	1.143	0.007	95	20496	40.0	41.2	
12 Trichlorofluoromethane	101	1.150	1.150	0.000	61	76159	20.0	21.7	
13 Dichlorofluoromethane	67	1.186	1.179	0.007	98	87544	20.0	18.6	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	97	86338	20.0	21.4	
15 Ethyl ether	59	1.294	1.294	0.000	95	35621	20.0	18.9	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	97	52560	20.0	21.0	
16 Ethanol	46	1.408	1.401	0.007	28	7659	800.0	798.5	a
19 Carbon disulfide	76	1.408	1.401	0.007	99	190764	20.0	19.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	95	54276	20.0	22.1	
22 Iodomethane	142	1.466	1.466	0.000	97	43594	20.0	11.0	
23 Cyclopentene	67	1.537	1.537	0.000	96	149629	20.0	21.5	
24 Acrolein	56	1.559	1.559	0.000	91	9248	40.0	41.2	
25 3-Chloro-1-propene	76	1.630	1.623	0.007	94	32660	20.0	20.4	
26 Isopropyl alcohol	45	1.652	1.652	0.000	97	17348	200.0	185.9	
27 Methylene Chloride	84	1.695	1.688	0.007	92	60912	20.0	20.2	
28 Acetone	43	1.709	1.709	0.000	87	42874	100.0	91.9	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	59896	20.0	20.9	
30 Methyl acetate	43	1.781	1.781	0.000	98	43457	40.0	38.6	
31 Hexane	86	1.817	1.817	0.000	91	16748	20.0	24.2	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	94	122699	20.0	20.9	
* 33 TBA-d9 (IS)	65	1.845	1.845	0.000	100	115607	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.895	1.888	0.007	99	26174	200.0	206.9	
35 Acetonitrile	41	1.981	1.974	0.007	100	38127	200.0	164.9	
36 Isopropyl ether	45	2.053	2.046	0.007	97	178013	20.0	19.4	
37 2-Chloro-1,3-butadiene	88	2.110	2.103	0.007	88	54603	20.0	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	2.118	2.117	0.001	100	101998	20.0	19.2	
39 Acrylonitrile	53	2.153	2.146	0.007	94	137686	200.0	199.7	
40 Tert-butyl ethyl ether	59	2.275	2.268	0.007	90	147069	20.0	19.4	
41 Vinyl acetate	43	2.282	2.282	0.000	100	152523	40.0	37.3	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	63473	20.0	20.0	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	70898	20.0	19.7	
44 Cyclohexane	56	2.590	2.583	0.007	90	108430	20.0	20.4	
45 Chlorobromomethane	128	2.590	2.590	0.000	71	28221	20.0	20.4	
46 Chloroform	83	2.648	2.648	0.000	99	93781	20.0	19.7	
47 Carbon tetrachloride	117	2.734	2.733	0.001	98	63623	20.0	22.6	
48 Ethyl acetate	70	2.748	2.741	0.007	99	8045	40.0	43.3	
49 Methyl acrylate	55	2.748	2.748	0.000	81	29223	20.0	19.4	
50 Tetrahydrofuran	42	2.755	2.755	0.000	95	26048	40.0	40.2	
$ 51 Dibromofluoromethane (Surr)	113	2.777	2.769	0.007	98	116415	50.0	48.5	
52 1,1,1-Trichloroethane	97	2.784	2.776	0.008	98	79824	20.0	20.8	
* 53 2-Butanone-d5	46	2.827	2.827	0.000	100	143241	250.0	250.0	
54 2-Butanone (MEK)	72	2.870	2.862	0.008	100	22177	100.0	106.0	
55 1,1-Dichloropropene	75	2.877	2.870	0.007	96	83288	20.0	20.1	
56 Isooctane	57	2.956	2.956	0.000	99	178523	20.0	21.2	
57 n-Heptane	57	3.049	3.049	0.000	91	44441	20.0	21.5	
58 Benzene	78	3.056	3.056	0.000	96	246655	20.0	19.6	
59 Propionitrile	54	3.070	3.070	0.000	92	46567	200.0	189.8	
60 Methacrylonitrile	67	3.092	3.092	0.000	90	157425	200.0	205.9	
62 Tert-amyl methyl ether	73	3.163	3.156	0.007	99	127075	20.0	20.2	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	115777	50.0	48.1	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	97	59908	20.0	19.3	
64 Isobutyl alcohol	43	3.285	3.285	0.000	96	27455	500.0	444.2	
65 t-Amyl alcohol	59	3.350	3.349	0.001	90	20072	200.0	200.1	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	556895	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	99	63912	20.0	18.1	
68 Methylcyclohexane	83	3.514	3.507	0.007	96	106544	20.0	21.7	
69 Trichloroethene	130	3.536	3.536	0.000	96	63381	20.0	21.1	
70 2-ethoxy-2-methyl butane	59	3.772	3.772	0.000	95	119665	20.0	19.3	
71 Dibromomethane	93	3.894	3.894	0.000	94	27087	20.0	20.2	
72 n-Butanol	56	3.908	3.908	0.000	87	16386	500.0	429.4	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	93	59469	20.0	19.8	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	65368	20.0	19.8	
74 Ethyl acrylate	55	4.066	4.066	0.000	61	41584	20.0	20.6	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	89	14367	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.259	0.000	90	20497	40.0	45.7	
78 1,4-Dioxane	88	4.266	4.266	0.000	36	7915	400.0	477.7	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	41370	20.0	18.3	
80 2-Chloroethyl vinyl ether	63	4.675	4.675	0.000	96	11773	20.0	20.7	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	78568	20.0	19.1	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	498328	50.0	48.0	
83 Toluene	91	4.940	4.940	0.000	93	255236	20.0	20.0	
84 Epichlorohydrin	57	4.976	4.983	-0.007	99	21890	400.0	433.1	
85 2-Nitropropane	41	5.190	5.190	0.000	96	11184	40.0	37.4	
86 Tetrachloroethene	166	5.362	5.355	0.007	98	64410	20.0	21.4	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.398	0.007	96	155089	100.0	104.7	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	94	67187	20.0	20.5	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	35094	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethyl methacrylate	69	5.692	5.692	0.000	89	49130	20.0	20.8	
91 Chlorodibromomethane	129	5.806	5.806	0.000	98	45765	20.0	20.4	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	94	72113	20.0	19.9	
93 Ethylene Dibromide	107	6.043	6.043	0.000	100	39619	20.0	21.2	
94 n-Butyl acetate	43	6.401	6.401	0.000	99	44254	20.0	18.1	
95 2-Hexanone	43	6.458	6.458	0.000	95	108240	100.0	108.8	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	86	402348	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	95	160608	20.0	20.1	
98 Ethylbenzene	106	6.831	6.831	0.000	98	91368	20.0	20.4	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.859	0.000	95	50745	20.0	20.5	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	110056	20.0	20.9	
101 o-Xylene	106	7.626	7.626	0.000	95	107308	20.0	20.2	
102 Bromoform	173	7.690	7.690	0.000	95	25468	20.0	20.1	
103 Styrene	104	7.712	7.712	0.000	97	176323	20.0	20.7	
104 n-Butyl acrylate	73	8.056	8.056	0.000	98	27446	20.0	19.3	
105 Isopropylbenzene	105	8.106	8.113	-0.007	95	283527	20.0	20.6	
106 Amyl acetate (mixed isomers)	43	8.464	8.464	0.000	90	59885	20.0	17.9	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	94	170589	50.0	52.4	
108 Bromobenzene	156	8.586	8.586	0.000	96	68596	20.0	20.0	
109 N-Propylbenzene	91	8.743	8.736	0.007	100	337943	20.0	19.7	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	97	47741	20.0	20.1	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	221638	20.0	18.8	
112 4-Ethyltoluene	105	8.930	8.929	0.001	99	280379	20.0	19.7	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	97	13500	20.0	21.5	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	233441	20.0	19.6	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.159	0.000	86	10577	20.0	23.3	
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	202292	20.0	19.5	
117 tert-Butylbenzene	119	9.546	9.546	0.000	96	202717	20.0	19.7	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	238604	20.0	19.5	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	62064	20.0	18.8	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	309281	20.0	19.8	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	97	137572	20.0	20.3	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	263373	20.0	20.0	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	231809	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.247	0.001	96	142272	20.0	20.0	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	241789	20.0	19.5	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	237331	20.0	19.7	
127 Benzyl chloride	126	10.713	10.706	0.007	98	15436	20.0	21.3	
128 p-Diethylbenzene	119	10.727	10.727	0.000	94	129980	20.0	19.6	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	234804	20.0	19.6	
130 1,2-Dichlorobenzene	146	10.914	10.921	-0.007	98	125084	20.0	20.2	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	226389	20.0	19.6	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	92	8571	20.0	21.7	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	100944	20.0	20.5	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	80693	20.0	19.6	
135 Hexachlorobutadiene	225	12.841	12.841	0.001	97	34875	20.0	19.2	
136 Naphthalene	128	13.120	13.127	-0.007	100	148997	20.0	19.6	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	95	64755	20.0	19.2	
S 138 1,2-Dichloroethene, Total	100				0		40.0	40.9	
S 139 1,3-Dichloropropene, Total	100				0		40.0	39.6	
S 140 Xylenes, Total	100				0		40.0	41.1	
S 142 Total BTEX	1				0		100.0	101.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 11:14:44 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116470.b\P79508.D

Injection Date: 09-Sep-2020 09:20:30 Instrument ID: CVOAMS13 Operator ID:

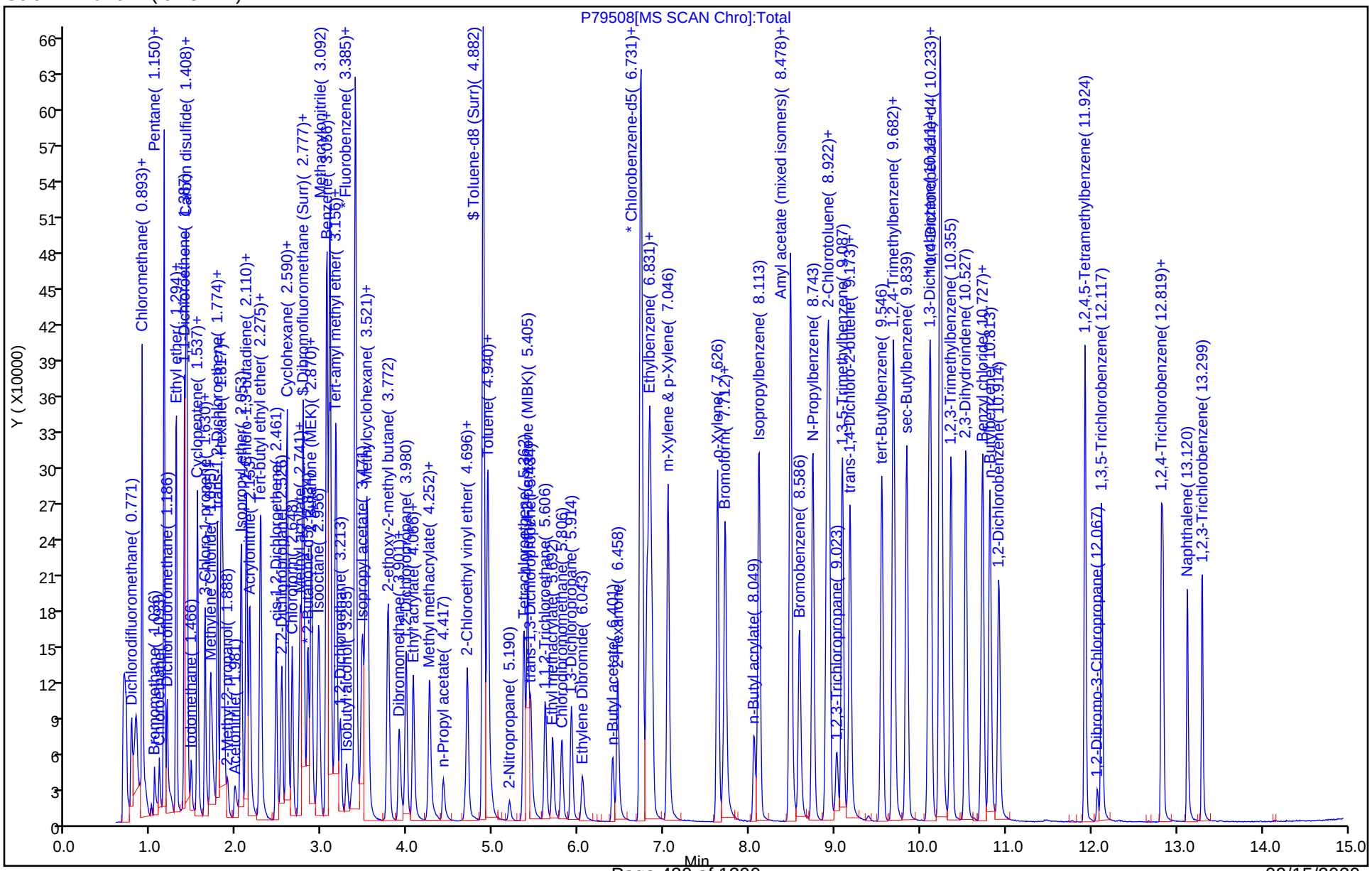
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-217576-A-4 MS

Matrix: Water Lab File ID: P79554.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 03:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.0		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	23.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.0		1.0	0.43
75-34-3	1,1-Dichloroethane	21.9		1.0	0.26
75-35-4	1,1-Dichloroethene	23.5		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	22.1		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	23.3		1.0	0.37
78-87-5	1,2-Dichloropropane	22.1		1.0	0.35
541-73-1	1,3-Dichlorobenzene	23.7		1.0	0.34
106-46-7	1,4-Dichlorobenzene	23.5		1.0	0.33
123-91-1	1,4-Dioxane	457		50	28
78-93-3	2-Butanone (MEK)	159		5.0	1.9
591-78-6	2-Hexanone	162		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	162		5.0	1.3
67-64-1	Acetone	136		5.0	4.4
71-43-2	Benzene	21.8		1.0	0.20
75-25-2	Bromoform	25.4		1.0	0.54
74-83-9	Bromomethane	26.6		1.0	0.55
75-15-0	Carbon disulfide	21.9		1.0	0.82
56-23-5	Carbon tetrachloride	25.9		1.0	0.21
108-90-7	Chlorobenzene	23.6		1.0	0.38
74-97-5	Chlorobromomethane	25.7		1.0	0.41
124-48-1	Chlorodibromomethane	23.7		1.0	0.28
75-00-3	Chloroethane	20.0		1.0	0.32
67-66-3	Chloroform	23.3		1.0	0.33
74-87-3	Chloromethane	17.6		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	28.8		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	20.7		1.0	0.22
110-82-7	Cyclohexane	21.2		1.0	0.32
75-27-4	Dichlorobromomethane	23.8		1.0	0.34
75-71-8	Dichlorodifluoromethane	17.7		1.0	0.31
100-41-4	Ethylbenzene	23.6		1.0	0.30
106-93-4	Ethylene Dibromide	24.5		1.0	0.50
98-82-8	Isopropylbenzene	23.3		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-217576-A-4 MS

Matrix: Water Lab File ID: P79554.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 03:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	43.5		5.0	0.79
1634-04-4	Methyl tert-butyl ether	25.7		1.0	0.47
108-87-2	Methylcyclohexane	23.2		1.0	0.26
75-09-2	Methylene Chloride	23.9		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	24.4		1.0	0.30
95-47-6	o-Xylene	23.0		1.0	0.36
100-42-5	Styrene	23.9		1.0	0.42
127-18-4	Tetrachloroethene	27.2		1.0	0.25
108-88-3	Toluene	22.9		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	24.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	21.3		1.0	0.49
79-01-6	Trichloroethene	26.5		1.0	0.31
75-69-4	Trichlorofluoromethane	23.1		1.0	0.32
75-01-4	Vinyl chloride	19.7		1.0	0.17
107-06-2	1,2-Dichloroethane	22.6		1.0	0.43
95-50-1	1,2-Dichlorobenzene	23.6		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	26.7		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-123
460-00-4	4-Bromofluorobenzene	117		76-120
1868-53-7	Dibromofluoromethane (Surr)	107		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79554.D
Lims ID: 460-217576-A-4 MS
Client ID: DDC-07-PD
Sample Type: MS
Inject. Date: 10-Sep-2020 03:28:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217576-A-4 MS
Misc. Info.: 460-0116494-025
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 14:25:29 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: baronm Date: 10-Sep-2020 14:23:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	83	3925		5.34	
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	99	55800	20.0	17.7	
4 1,1-Difluoroethane	65	0.814	0.807	0.007	88	16753		11.2	
5 Chlorodifluoromethane	67	0.821	0.814	0.007	95	6786		15.7	a
6 Chloromethane	50	0.893	0.886	0.007	99	77627	20.0	17.6	
8 Butadiene	54	0.893	0.886	0.007	92	53477	20.0	18.2	
7 Vinyl chloride	62	0.893	0.893	0.000	75	63637	20.0	19.7	
9 Bromomethane	94	1.036	1.036	0.000	98	25854	20.0	26.6	
10 Chloroethane	64	1.093	1.093	0.000	98	34277	20.0	20.0	
11 Pentane	72	1.150	1.143	0.007	95	16957	40.0	41.0	
12 Trichlorofluoromethane	101	1.150	1.151	-0.001	66	68106	20.0	23.1	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	98	80863	20.0	20.4	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	96	72435	20.0	21.4	
15 Ethyl ether	59	1.294	1.294	0.000	94	33407	20.0	21.1	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	74	64894		21.1	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	96	49436	20.0	23.5	
16 Ethanol	46	1.401	1.401	0.000	25	7280	800.0	913.2	
19 Carbon disulfide	76	1.408	1.401	0.007	99	180071	20.0	21.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	86	49226	20.0	23.9	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.415	1.415	0.000	96	69365		21.8	a
22 Iodomethane	142	1.466	1.466	0.000	96	29565	20.0	8.87	
23 Cyclopentene	67	1.537	1.537	0.000	96	132540	20.0	22.7	
24 Acrolein	56	1.559	1.559	0.000	95	8117	40.0	43.5	
25 3-Chloro-1-propene	76	1.630	1.623	0.007	94	29143	20.0	21.7	
26 Isopropyl alcohol	45	1.652	1.645	0.007	97	19644	200.0	253.3	
27 Methylene Chloride	84	1.695	1.688	0.007	90	60540	20.0	23.9	
28 Acetone	43	1.709	1.709	0.000	88	41733	100.0	135.6	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	92	57870	20.0	24.0	
30 Methyl acetate	43	1.781	1.781	0.000	99	40721	40.0	43.5	
31 Hexane	86	1.817	1.817	0.000	90	14757	20.0	25.4	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	90	126753	20.0	25.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.852	1.845	0.007	99	96087	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.888	1.888	0.000	99	25883	200.0	246.1	
35 Acetonitrile	41	1.981	1.981	0.000	98	33694	200.0	175.4	
36 Isopropyl ether	45	2.053	2.046	0.007	97	170588	20.0	22.1	
37 2-Chloro-1,3-butadiene	88	2.103	2.103	0.000	90	52265	20.0	23.7	
38 1,1-Dichloroethane	63	2.117	2.118	-0.001	100	97716	20.0	21.9	
39 Acrylonitrile	53	2.153	2.146	0.007	93	135985	200.0	234.7	
40 Tert-butyl ethyl ether	59	2.275	2.268	0.007	90	146197	20.0	23.0	
41 Vinyl acetate	43	2.282	2.282	0.000	100	119214	40.0	34.7	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	76656	20.0	28.8	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	98	54308	20.0	17.9	
44 Cyclohexane	56	2.583	2.583	0.000	88	95024	20.0	21.2	
45 Chlorobromomethane	128	2.590	2.590	0.000	82	29913	20.0	25.7	
46 Chloroform	83	2.648	2.648	0.000	100	93454	20.0	23.3	
47 Carbon tetrachloride	117	2.733	2.734	-0.001	98	61150	20.0	25.9	
48 Ethyl acetate	70	2.741	2.741	0.000	97	7639	40.0	62.1	
49 Methyl acrylate	55	2.748	2.748	0.000	90	27414	20.0	21.7	
50 Tetrahydrofuran	42	2.755	2.755	0.000	97	26494	40.0	61.7	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	107927	50.0	53.6	
52 1,1,1-Trichloroethane	97	2.776	2.777	-0.001	98	77392	20.0	24.0	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	98	94971	250.0	250.0	
54 2-Butanone (MEK)	72	2.870	2.863	0.008	99	22111	100.0	159.3	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	96	81267	20.0	23.3	
56 Isooctane	57	2.956	2.956	0.000	99	151393	20.0	21.4	
57 n-Heptane	57	3.049	3.049	0.000	93	35804	20.0	20.6	
58 Benzene	78	3.056	3.049	0.007	95	239247	20.0	21.8	
59 Propionitrile	54	3.070	3.070	0.000	92	45993	200.0	225.6	
60 Methacrylonitrile	67	3.092	3.092	0.000	90	159549	200.0	248.4	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	104220	50.0	51.5	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	99	129324	20.0	24.5	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	97	59213	20.0	22.6	
64 Isobutyl alcohol	43	3.285	3.285	0.000	96	26972	500.0	525.0	
65 t-Amyl alcohol	59	3.350	3.350	0.000	94	19978	200.0	239.6	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	467866	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	98	61801	20.0	20.8	
68 Methylcyclohexane	83	3.514	3.507	0.007	95	95671	20.0	23.2	
69 Trichloroethene	130	3.536	3.536	0.000	97	66970	20.0	26.5	
70 2-ethoxy-2-methyl butane	59	3.772	3.765	0.007	95	114990	20.0	22.1	
71 Dibromomethane	93	3.894	3.894	0.000	93	27263	20.0	24.2	
72 n-Butanol	56	3.908	3.915	-0.007	90	15369	500.0	484.2	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	55811	20.0	22.1	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	66109	20.0	23.8	
74 Ethyl acrylate	55	4.066	4.066	0.000	59	41048	20.0	24.1	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	90	14294	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.252	0.007	88	20378	40.0	54.1	
78 1,4-Dioxane	88	4.259	4.259	0.000	34	7541	400.0	457.4	
79 n-Propyl acetate	43	4.417	4.417	0.000	98	38972	20.0	20.5	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	91	74482	20.0	20.7	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	463110	50.0	51.1	
83 Toluene	91	4.940	4.933	0.007	93	255316	20.0	22.9	
84 Epichlorohydrin	57	4.990	4.983	0.007	93	8575	400.0	259.2	
85 2-Nitropropane	41	5.190	5.190	0.000	98	11412	40.0	45.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Tetrachloroethene	166	5.362	5.362	0.000	96	71425	20.0	27.2	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.398	0.007	94	159049	100.0	161.9	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	93	60763	20.0	21.3	
89 1,1,2-Trichloroethane	83	5.613	5.606	0.007	96	34932	20.0	23.0	
90 Ethyl methacrylate	69	5.692	5.692	0.000	88	50294	20.0	25.3	
91 Chlorodibromomethane	129	5.799	5.807	-0.007	98	46433	20.0	23.7	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	93	71565	20.0	22.6	
93 Ethylene Dibromide	107	6.043	6.043	0.000	99	39986	20.0	24.5	
94 n-Butyl acetate	43	6.401	6.401	0.000	98	39915	20.0	18.7	
95 2-Hexanone	43	6.458	6.458	0.000	94	107080	100.0	162.4	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	85	351265	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	96	164538	20.0	23.6	
98 Ethylbenzene	106	6.831	6.831	0.000	98	92425	20.0	23.6	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.852	0.007	96	51796	20.0	24.0	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	112031	20.0	24.4	
101 o-Xylene	106	7.626	7.626	0.000	95	106549	20.0	23.0	
102 Bromoform	173	7.697	7.698	-0.001	96	28138	20.0	25.4	
103 Styrene	104	7.719	7.712	0.007	97	177664	20.0	23.9	
104 n-Butyl acrylate	73	8.056	8.056	0.000	98	28922	20.0	23.2	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	279988	20.0	23.3	
106 Amyl acetate (mixed isomers)	43	8.464	8.464	0.000	91	56959	20.0	19.8	
$ 107 4-Bromofluorobenzene	174	8.478	8.478	0.000	96	166009	50.0	58.4	
108 Bromobenzene	156	8.586	8.586	0.000	94	72932	20.0	24.8	
109 N-Propylbenzene	91	8.743	8.743	0.000	100	328710	20.0	22.3	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	96	48486	20.0	23.8	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	217809	20.0	21.5	
112 4-Ethyltoluene	105	8.930	8.930	0.000	98	275190	20.0	22.5	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	97	13810	20.0	25.6	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	229133	20.0	22.4	
115 trans-1,4-Dichloro-2-butene	53	9.159	9.159	0.000	39	10375	20.0	26.6	a
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	199133	20.0	22.3	
117 tert-Butylbenzene	119	9.546	9.546	0.000	96	202270	20.0	22.9	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	236286	20.0	22.4	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	62469	20.0	22.0	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	301813	20.0	22.5	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	137824	20.0	23.7	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	259196	20.0	22.9	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	93	199106	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.248	10.248	0.000	97	143634	20.0	23.5	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	98	239285	20.0	22.4	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	237285	20.0	22.9	
127 Benzyl chloride	126	10.713	10.713	0.000	97	12397	20.0	20.0	
128 p-Diethylbenzene	119	10.727	10.728	-0.001	94	127204	20.0	22.3	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	219643	20.0	21.3	
130 1,2-Dichlorobenzene	146	10.914	10.914	0.000	98	125698	20.0	23.6	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	223975	20.0	22.6	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	89	9073	20.0	26.7	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	99639	20.0	23.6	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	82647	20.0	23.3	
135 Hexachlorobutadiene	225	12.841	12.841	0.000	97	32550	20.0	20.8	
136 Naphthalene	128	13.127	13.127	0.000	100	139740	20.0	21.4	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	96	63999	20.0	22.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 1,2-Dichloroethene, Total	100				0		40.0	52.8	
S 139 1,3-Dichloropropene, Total	100				0		40.0	42.0	
S 140 Xylenes, Total	100				0		40.0	47.4	
S 142 Total BTEX	1				0		100.0	115.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

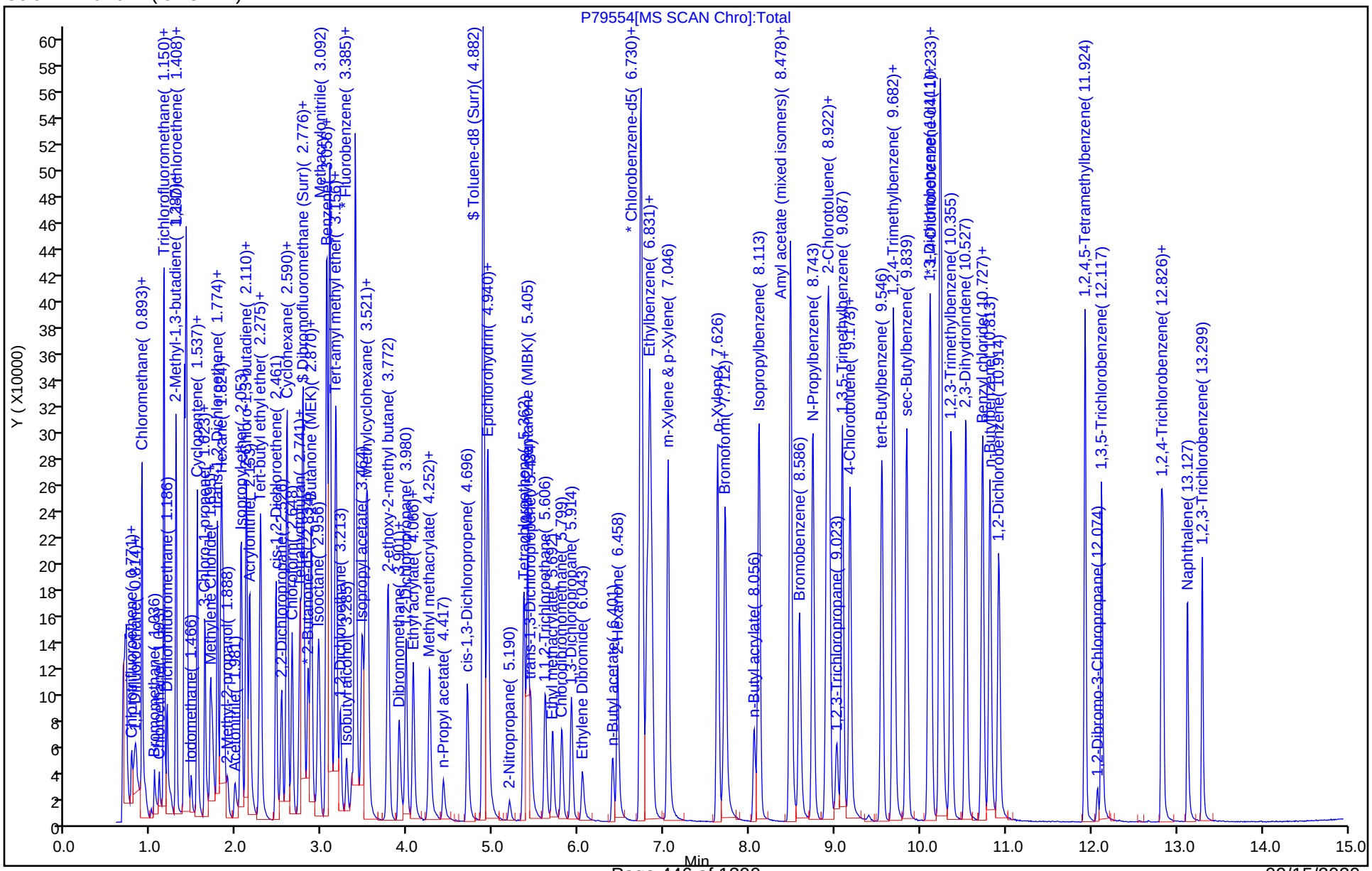
Report Date: 10-Sep-2020 14:26:32 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79554.D

Injection Date:	10-Sep-2020 03:28:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-217576-A-4 MS			Worklist Smp#:	25
Client ID:	DDC-07-PD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-217576-A-4 MSD

Matrix: Water Lab File ID: P79555.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 03:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.0		1.0	0.43
75-34-3	1,1-Dichloroethane	17.9		1.0	0.26
75-35-4	1,1-Dichloroethene	19.4		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	19.8		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	19.3		1.0	0.37
78-87-5	1,2-Dichloropropane	17.8		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.6		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.3		1.0	0.33
123-91-1	1,4-Dioxane	405		50	28
78-93-3	2-Butanone (MEK)	125		5.0	1.9
591-78-6	2-Hexanone	124		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	124		5.0	1.3
67-64-1	Acetone	108		5.0	4.4
71-43-2	Benzene	17.9		1.0	0.20
75-25-2	Bromoform	20.7		1.0	0.54
74-83-9	Bromomethane	22.2		1.0	0.55
75-15-0	Carbon disulfide	18.1		1.0	0.82
56-23-5	Carbon tetrachloride	21.3		1.0	0.21
108-90-7	Chlorobenzene	19.3		1.0	0.38
74-97-5	Chlorobromomethane	20.3		1.0	0.41
124-48-1	Chlorodibromomethane	19.1		1.0	0.28
75-00-3	Chloroethane	17.5		1.0	0.32
67-66-3	Chloroform	19.1		1.0	0.33
74-87-3	Chloromethane	15.5		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	23.1		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	16.8		1.0	0.22
110-82-7	Cyclohexane	17.2		1.0	0.32
75-27-4	Dichlorobromomethane	19.4		1.0	0.34
75-71-8	Dichlorodifluoromethane	15.9		1.0	0.31
100-41-4	Ethylbenzene	19.2		1.0	0.30
106-93-4	Ethylene Dibromide	20.0		1.0	0.50
98-82-8	Isopropylbenzene	19.4		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: 460-217576-A-4 MSD

Matrix: Water Lab File ID: P79555.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/10/2020 03:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722834 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	32.9		5.0	0.79
1634-04-4	Methyl tert-butyl ether	20.8		1.0	0.47
108-87-2	Methylcyclohexane	19.1		1.0	0.26
75-09-2	Methylene Chloride	19.4		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	19.6		1.0	0.30
95-47-6	o-Xylene	19.1		1.0	0.36
100-42-5	Styrene	19.6		1.0	0.42
127-18-4	Tetrachloroethene	23.0		1.0	0.25
108-88-3	Toluene	19.0		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.7		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.3		1.0	0.49
79-01-6	Trichloroethene	21.6		1.0	0.31
75-69-4	Trichlorofluoromethane	20.0		1.0	0.32
75-01-4	Vinyl chloride	16.7		1.0	0.17
107-06-2	1,2-Dichloroethane	18.0		1.0	0.43
95-50-1	1,2-Dichlorobenzene	19.5		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	21.0		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-123
460-00-4	4-Bromofluorobenzene	108		76-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-124
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79555.D
Lims ID: 460-217576-A-4 MSD
Client ID: DDC-07-PD
Sample Type: MSD
Inject. Date: 10-Sep-2020 03:52:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217576-A-4 MSD
Misc. Info.: 460-0116494-026
Operator ID: Instrument ID: CVOAMS13

Method: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 15:03:38 Calib Date: 04-Sep-2020 16:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS13\20200904-116303.b\P79359.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1019

First Level Reviewer: sgroa Date: 10-Sep-2020 08:18:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	84	4040		5.11	
3 Dichlorodifluoromethane	85	0.771	0.764	0.007	99	53864	20.0	15.9	
4 1,1-Difluoroethane	65	0.814	0.807	0.007	88	16442		10.2	
5 Chlorodifluoromethane	67	0.828	0.814	0.014	95	6325		13.6	a
6 Chloromethane	50	0.893	0.886	0.007	69	73444	20.0	15.5	
8 Butadiene	54	0.893	0.886	0.007	91	50833	20.0	16.1	
7 Vinyl chloride	62	0.893	0.893	0.000	96	58139	20.0	16.7	
9 Bromomethane	94	1.036	1.036	0.000	97	24306	20.0	22.2	
10 Chloroethane	64	1.093	1.093	0.000	99	32229	20.0	17.5	M
11 Pentane	72	1.150	1.143	0.007	96	14940	40.0	32.3	
12 Trichlorofluoromethane	101	1.150	1.151	-0.001	67	63379	20.0	20.0	
13 Dichlorofluoromethane	67	1.186	1.186	0.000	98	74118	20.0	17.4	
14 2-Methyl-1,3-butadiene	67	1.287	1.287	0.000	96	63048	20.0	17.3	
15 Ethyl ether	59	1.294	1.294	0.000	94	29998	20.0	17.6	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.387	1.387	0.000	78	62306		18.8	
17 1,1-Dichloroethene	96	1.387	1.387	0.000	96	43975	20.0	19.4	
16 Ethanol	46	1.401	1.401	0.000	24	7141	800.0	800.3	a
19 Carbon disulfide	76	1.408	1.401	0.007	99	160424	20.0	18.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.408	1.408	0.000	93	43344	20.0	19.5	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.415	1.415	0.000	94	67796		19.7	a
22 Iodomethane	142	1.466	1.466	0.000	97	32854	20.0	9.15	
23 Cyclopentene	67	1.537	1.537	0.000	95	118367	20.0	18.8	
24 Acrolein	56	1.559	1.559	0.000	93	5628	40.0	26.9	
25 3-Chloro-1-propene	76	1.630	1.623	0.007	93	26506	20.0	18.3	
26 Isopropyl alcohol	45	1.652	1.645	0.007	99	18568	200.0	213.9	
27 Methylene Chloride	84	1.695	1.688	0.007	89	53110	20.0	19.4	
28 Acetone	43	1.709	1.709	0.000	88	37501	100.0	108.1	
29 trans-1,2-Dichloroethene	96	1.774	1.774	0.000	93	51115	20.0	19.7	
30 Methyl acetate	43	1.781	1.781	0.000	97	34489	40.0	32.9	
31 Hexane	86	1.817	1.817	0.000	88	12435	20.0	19.9	
32 Methyl tert-butyl ether	73	1.831	1.831	0.000	98	110408	20.0	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.852	1.845	0.007	100	107546	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.895	1.888	0.007	99	24431	200.0	207.6	
35 Acetonitrile	41	1.981	1.981	0.000	100	32550	200.0	151.4	
36 Isopropyl ether	45	2.053	2.046	0.007	97	148866	20.0	17.9	
37 2-Chloro-1,3-butadiene	88	2.110	2.103	0.007	88	45716	20.0	19.2	
38 1,1-Dichloroethane	63	2.117	2.118	-0.001	99	86204	20.0	17.9	
39 Acrylonitrile	53	2.153	2.146	0.007	95	117332	200.0	188.1	
40 Tert-butyl ethyl ether	59	2.275	2.268	0.007	89	128518	20.0	18.8	
41 Vinyl acetate	43	2.282	2.282	0.000	100	109507	40.0	29.6	
42 cis-1,2-Dichloroethene	96	2.461	2.461	0.000	99	66150	20.0	23.1	
43 2,2-Dichloropropane	77	2.526	2.526	0.000	97	47811	20.0	14.7	
44 Cyclohexane	56	2.583	2.583	0.000	89	82950	20.0	17.2	
45 Chlorobromomethane	128	2.590	2.590	0.000	82	25400	20.0	20.3	
46 Chloroform	83	2.648	2.648	0.000	99	82530	20.0	19.1	
47 Carbon tetrachloride	117	2.733	2.734	-0.001	98	54208	20.0	21.3	
48 Ethyl acetate	70	2.741	2.741	0.000	99	6653	40.0	48.1	
49 Methyl acrylate	55	2.748	2.748	0.000	98	26607	20.0	19.6	
50 Tetrahydrofuran	42	2.755	2.755	0.000	95	22702	40.0	47.0	
$ 51 Dibromofluoromethane (Surr)	113	2.769	2.769	0.000	98	108987	50.0	50.2	
52 1,1,1-Trichloroethane	97	2.784	2.777	0.007	98	68764	20.0	19.8	
* 53 2-Butanone-d5	46	2.834	2.827	0.007	99	106756	250.0	250.0	
54 2-Butanone (MEK)	72	2.870	2.863	0.008	100	19520	100.0	125.1	
55 1,1-Dichloropropene	75	2.870	2.870	0.000	96	72294	20.0	19.3	
56 Isooctane	57	2.956	2.956	0.000	99	132860	20.0	17.5	
57 n-Heptane	57	3.049	3.049	0.000	92	32497	20.0	17.4	
58 Benzene	78	3.056	3.049	0.007	97	210783	20.0	17.9	
59 Propionitrile	54	3.070	3.070	0.000	96	39034	200.0	171.1	
60 Methacrylonitrile	67	3.092	3.092	0.000	89	139120	200.0	201.1	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.156	3.156	0.000	0	106483	50.0	48.9	
62 Tert-amyl methyl ether	73	3.163	3.163	0.000	98	113133	20.0	19.9	
63 1,2-Dichloroethane	62	3.213	3.213	0.000	96	50595	20.0	18.0	
64 Isobutyl alcohol	43	3.285	3.285	0.000	97	24151	500.0	420.0	
65 t-Amyl alcohol	59	3.349	3.350	-0.001	90	19161	200.0	205.3	
* 66 Fluorobenzene	96	3.385	3.385	0.000	99	503910	50.0	50.0	
67 Isopropyl acetate	43	3.457	3.457	0.000	100	52690	20.0	16.5	
68 Methylcyclohexane	83	3.514	3.507	0.007	95	84784	20.0	19.1	
69 Trichloroethene	130	3.536	3.536	0.000	96	58772	20.0	21.6	
70 2-ethoxy-2-methyl butane	59	3.772	3.765	0.007	96	102444	20.0	18.2	
71 Dibromomethane	93	3.894	3.894	0.000	94	24478	20.0	20.2	
72 n-Butanol	56	3.915	3.915	0.000	90	15002	500.0	422.7	
73 1,2-Dichloropropane	63	3.980	3.980	0.000	92	48504	20.0	17.8	
75 Dichlorobromomethane	83	4.066	4.066	0.000	99	57882	20.0	19.4	
74 Ethyl acrylate	55	4.066	4.066	0.000	58	33783	20.0	18.6	
* 76 1,4-Dioxane-d8	96	4.238	4.238	0.000	94	15564	1000.0	1000.0	
77 Methyl methacrylate	100	4.259	4.252	0.007	87	18090	40.0	44.6	
78 1,4-Dioxane	88	4.266	4.259	0.007	39	7270	400.0	405.0	
79 n-Propyl acetate	43	4.417	4.417	0.000	97	32990	20.0	16.1	
81 cis-1,3-Dichloropropene	75	4.696	4.696	0.000	92	65094	20.0	16.8	
$ 82 Toluene-d8 (Surr)	98	4.882	4.882	0.000	99	463721	50.0	47.6	
83 Toluene	91	4.940	4.933	0.007	93	227582	20.0	19.0	
84 Epichlorohydrin	57	4.990	4.983	0.007	97	7407	400.0	200.1	
85 2-Nitropropane	41	5.190	5.190	0.000	98	9589	40.0	35.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Tetrachloroethene	166	5.362	5.362	0.000	96	64986	20.0	23.0	
87 4-Methyl-2-pentanone (MIBK)	43	5.405	5.398	0.007	95	137322	100.0	124.3	
88 trans-1,3-Dichloropropene	75	5.441	5.441	0.000	98	56084	20.0	18.3	
89 1,1,2-Trichloroethane	83	5.606	5.606	0.000	96	31070	20.0	19.0	
90 Ethyl methacrylate	69	5.699	5.692	0.007	88	43662	20.0	20.4	
91 Chlorodibromomethane	129	5.806	5.807	0.000	97	40335	20.0	19.1	
92 1,3-Dichloropropane	76	5.914	5.914	0.000	93	63687	20.0	18.7	
93 Ethylene Dibromide	107	6.043	6.043	0.000	99	35148	20.0	20.0	
94 n-Butyl acetate	43	6.401	6.401	0.000	98	37449	20.0	16.4	
95 2-Hexanone	43	6.458	6.458	0.000	94	91944	100.0	124.1	
* 96 Chlorobenzene-d5	117	6.723	6.723	0.000	84	377909	50.0	50.0	
97 Chlorobenzene	112	6.745	6.745	0.000	98	144648	20.0	19.3	
98 Ethylbenzene	106	6.831	6.831	0.000	98	80626	20.0	19.2	
99 1,1,1,2-Tetrachloroethane	131	6.859	6.852	0.007	95	46545	20.0	20.0	
100 m-Xylene & p-Xylene	106	7.046	7.046	0.000	0	96791	20.0	19.6	
101 o-Xylene	106	7.626	7.626	0.000	95	95537	20.0	19.1	
102 Bromoform	173	7.690	7.698	-0.008	96	24663	20.0	20.7	
103 Styrene	104	7.719	7.712	0.007	98	157013	20.0	19.6	
104 n-Butyl acrylate	73	8.056	8.056	0.000	97	23960	20.0	18.0	
105 Isopropylbenzene	105	8.113	8.113	0.000	95	250815	20.0	19.4	
106 Amyl acetate (mixed isomers)	43	8.471	8.464	0.007	91	48164	20.0	15.5	
$ 107 4-Bromofluorobenzene	174	8.485	8.478	0.007	96	165057	50.0	54.0	
108 Bromobenzene	156	8.586	8.586	0.000	93	64255	20.0	20.1	
109 N-Propylbenzene	91	8.743	8.743	0.000	100	289803	20.0	18.1	
110 1,1,2,2-Tetrachloroethane	83	8.894	8.894	0.000	97	42660	20.0	19.2	
111 2-Chlorotoluene	91	8.908	8.908	0.000	97	192234	20.0	17.4	
112 4-Ethyltoluene	105	8.929	8.930	-0.001	98	244249	20.0	18.3	
113 1,2,3-Trichloropropane	110	9.023	9.023	0.000	98	12509	20.0	21.3	
114 1,3,5-Trimethylbenzene	105	9.087	9.087	0.000	94	207118	20.0	18.6	
115 trans-1,4-Dichloro-2-butene	53	9.166	9.159	0.007	39	8956	20.0	21.1	a
116 4-Chlorotoluene	91	9.173	9.173	0.000	97	176802	20.0	18.2	
117 tert-Butylbenzene	119	9.546	9.546	0.000	96	180763	20.0	18.8	
118 1,2,4-Trimethylbenzene	105	9.682	9.682	0.000	97	208402	20.0	18.2	
119 Butyl Methacrylate	87	9.696	9.696	0.000	91	55822	20.0	18.1	
120 sec-Butylbenzene	105	9.839	9.839	0.000	99	263066	20.0	18.0	
121 1,3-Dichlorobenzene	146	10.097	10.097	0.000	98	124097	20.0	19.6	
122 4-Isopropyltoluene	119	10.119	10.119	0.000	98	227565	20.0	18.5	
* 123 1,4-Dichlorobenzene-d4	152	10.226	10.226	0.000	94	216814	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.247	10.248	-0.001	97	128766	20.0	19.3	
125 1,2,3-Trimethylbenzene	105	10.355	10.355	0.000	97	213778	20.0	18.4	
126 2,3-Dihydroindene	117	10.527	10.527	0.000	94	212728	20.0	18.9	
127 Benzyl chloride	126	10.713	10.713	0.000	97	11358	20.0	17.0	
128 p-Diethylbenzene	119	10.727	10.728	-0.001	95	113266	20.0	18.3	
129 n-Butylbenzene	91	10.813	10.813	0.000	98	198607	20.0	17.7	
130 1,2-Dichlorobenzene	146	10.921	10.914	0.007	98	112762	20.0	19.5	
131 1,2,4,5-Tetramethylbenzene	119	11.924	11.924	0.000	98	199061	20.0	18.4	
132 1,2-Dibromo-3-Chloropropane	157	12.074	12.074	0.000	92	7776	20.0	21.0	
133 1,3,5-Trichlorobenzene	180	12.117	12.117	0.000	97	88136	20.0	19.2	
134 1,2,4-Trichlorobenzene	180	12.819	12.819	0.000	94	74499	20.0	19.3	
135 Hexachlorobutadiene	225	12.841	12.841	-0.001	97	30516	20.0	17.9	
136 Naphthalene	128	13.120	13.127	-0.007	100	134292	20.0	18.9	
137 1,2,3-Trichlorobenzene	180	13.299	13.299	0.000	96	62520	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 138 1,2-Dichloroethene, Total	100				0		40.0	42.8	
S 139 1,3-Dichloropropene, Total	100				0		40.0	35.1	
S 140 Xylenes, Total	100				0		40.0	38.7	
S 142 Total BTEX	1				0		100.0	94.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00385	Amount Added:	20.00	Units: uL	
8260ISNEW_00129	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00212	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Sep-2020 15:03:41 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79555.D

Injection Date: 10-Sep-2020 03:52:30 Instrument ID: CVOAMS13 Operator ID:

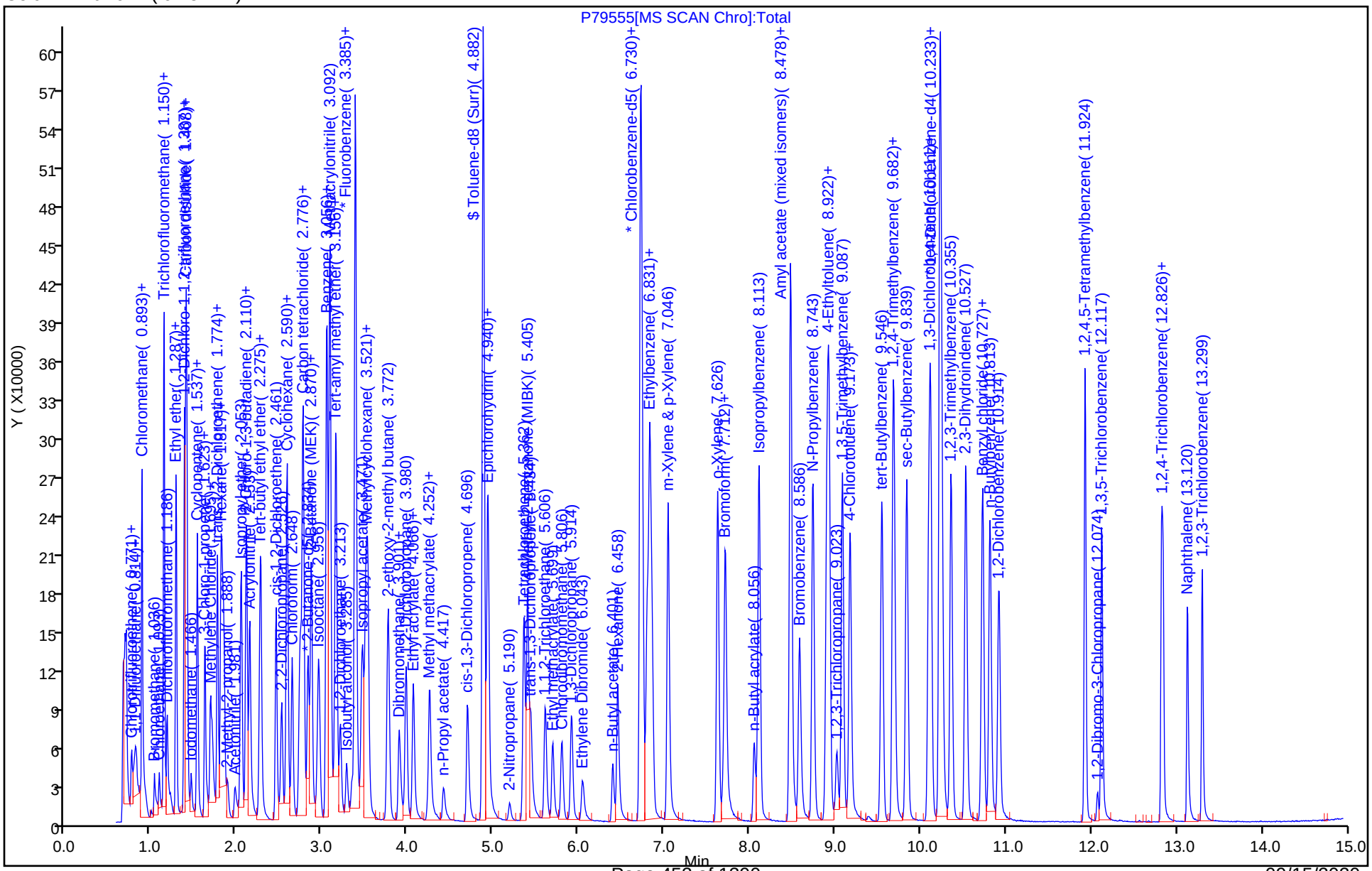
Lims ID: 460-217576-A-4 MSD Worklist Smp#: 26

Client ID: DDC-07-PD

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 25

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

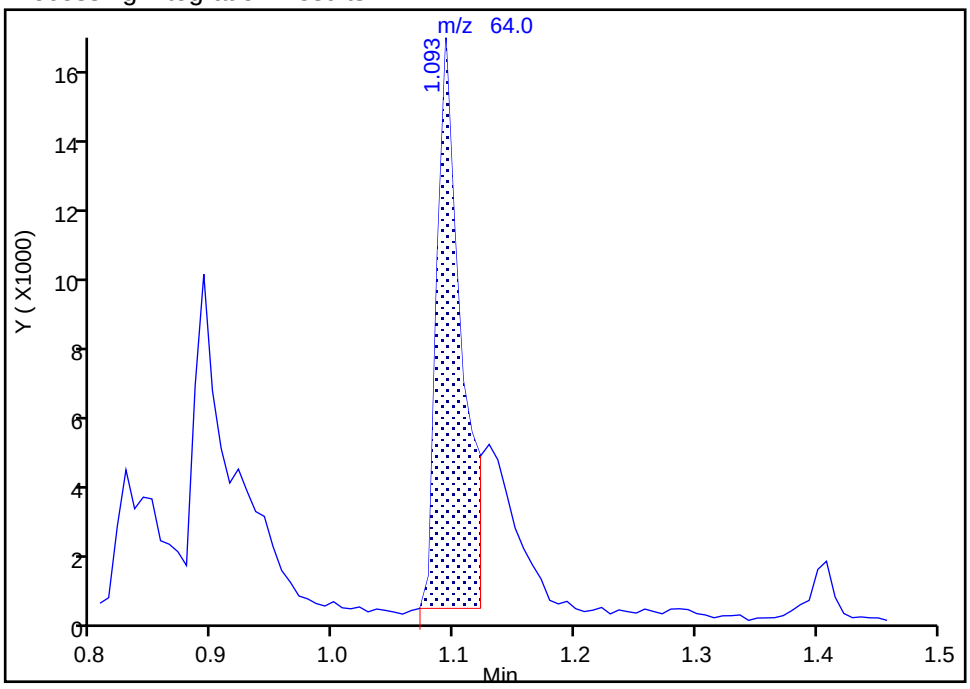
Data File:	\\chromfs\Edison\ChromData\CVOAMS13\20200909-116494.b\P79555.D		
Injection Date:	10-Sep-2020 03:52:30	Instrument ID:	CVOAMS13
Lims ID:	460-217576-A-4 MSD		
Client ID:	DDC-07-PD		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

10 Chloroethane, CAS: 75-00-3

Signal: 1

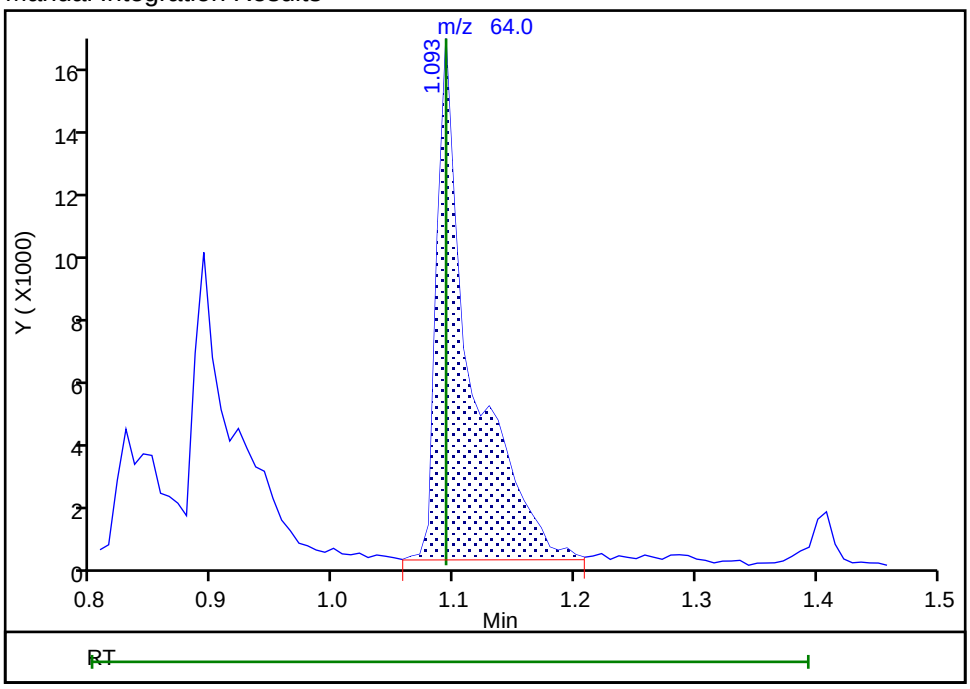
Processing Integration Results

RT: 1.09
Area: 22807
Amount: 12.354408
Amount Units: ug/l



Manual Integration Results

RT: 1.09
Area: 32229
Amount: 17.458246
Amount Units: ug/l



Reviewer: baronm, 10-Sep-2020 15:03:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 09/04/2020 13:21

Analysis Batch Number: 721970 End Date: 09/04/2020 20:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-721970/1		09/04/2020 13:21	1	P79350.D	Rtx-624 0.25(mm)
STD8 460-721970/3 IC		09/04/2020 14:09	1	P79352.D	Rtx-624 0.25(mm)
STD1 460-721970/4 IC		09/04/2020 14:57	1	P79354.D	Rtx-624 0.25(mm)
STD5 460-721970/5 IC		09/04/2020 15:21	1	P79355.D	Rtx-624 0.25(mm)
STD20 460-721970/6 ICIS		09/04/2020 15:45	1	P79356.D	Rtx-624 0.25(mm)
STD50 460-721970/7 IC		09/04/2020 16:09	1	P79357.D	Rtx-624 0.25(mm)
STD200 460-721970/8 IC		09/04/2020 16:33	1	P79358.D	Rtx-624 0.25(mm)
STD500 460-721970/9 IC		09/04/2020 16:58	1	P79359.D	Rtx-624 0.25(mm)
ICV 460-721970/18		09/04/2020 20:34	1	P79368.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 09/08/2020 19:03

Analysis Batch Number: 722597 End Date: 09/09/2020 06:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-722597/1		09/08/2020 19:03	1	P79479.D	Rtx-624 0.25(mm)
CCVIS 460-722597/3		09/08/2020 19:49	1	P79481.D	Rtx-624 0.25(mm)
LCS 460-722597/4		09/08/2020 20:12	1	P79482.D	Rtx-624 0.25(mm)
LCSD 460-722597/5		09/08/2020 20:35	1	P79483.D	Rtx-624 0.25(mm)
MB 460-722597/10		09/08/2020 22:33	1	P79488.D	Rtx-624 0.25(mm)
460-217547-8	TB	09/09/2020 01:38	1	P79489.D	Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 02:02	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 02:25	1		Rtx-624 0.25(mm)
460-217547-7	FB	09/09/2020 02:49	1	P79492.D	Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 03:12	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 03:36	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 03:59	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 04:23	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 04:47	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 05:10	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 05:34	1		Rtx-624 0.25(mm)
460-217547-2	MW-204	09/09/2020 06:21	1	P79501.D	Rtx-624 0.25(mm)
460-217547-3	MW-205	09/09/2020 06:44	1	P79502.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 09/09/2020 07:47

Analysis Batch Number: 722709 End Date: 09/09/2020 11:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-722709/1		09/09/2020 07:47	1	P79504.D	Rtx-624 0.25(mm)
CCVIS 460-722709/3		09/09/2020 08:33	1	P79506.D	Rtx-624 0.25(mm)
LCS 460-722709/4		09/09/2020 08:57	1	P79507.D	Rtx-624 0.25(mm)
LCSD 460-722709/5		09/09/2020 09:20	1	P79508.D	Rtx-624 0.25(mm)
MB 460-722709/8		09/09/2020 10:31	1	P79511.D	Rtx-624 0.25(mm)
460-217547-5	MW-213	09/09/2020 11:42	1	P79514.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 09/09/2020 17:54

Analysis Batch Number: 722834 End Date: 09/10/2020 03:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-722834/1		09/09/2020 17:54	1	P79530.D	Rtx-624 0.25(mm)
CCVIS 460-722834/4		09/09/2020 19:04	1	P79533.D	Rtx-624 0.25(mm)
LCS 460-722834/5		09/09/2020 19:27	1	P79534.D	Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 19:51	1		Rtx-624 0.25(mm)
MB 460-722834/9		09/09/2020 21:01	1	P79538.D	Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 21:32	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 21:55	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 22:19	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 22:43	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 23:07	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 23:30	1		Rtx-624 0.25(mm)
ZZZZZ		09/09/2020 23:54	1		Rtx-624 0.25(mm)
460-217547-6	DUP	09/10/2020 00:18	1	P79546.D	Rtx-624 0.25(mm)
460-217547-1	MW-203	09/10/2020 00:42	1	P79547.D	Rtx-624 0.25(mm)
460-217547-4	MW-206	09/10/2020 01:06	1	P79548.D	Rtx-624 0.25(mm)
460-217576-A-4 MS		09/10/2020 03:28	1	P79554.D	Rtx-624 0.25(mm)
460-217576-A-4 MSD		09/10/2020 03:52	1	P79555.D	Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 721970 Batch Start Date: 09/04/20 13:21 Batch Analyst: Starzec, Margaret

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	14DIOXINTER 00118	524freon 00027	8260 SP 00129	8260ISNEW 00129
BFB 460-721970/1		8260C		5 mL	5 mL				
STD8 460-721970/3 IC		8260C		5 mL	5 mL				1 uL
STD1 460-721970/4 IC		8260C		5 mL	5 mL	30 uL	10 uL		1 uL
STD5 460-721970/5 IC		8260C		5 mL	5 mL		10 uL		1 uL
STD20 460-721970/6 ICIS		8260C		5 mL	5 mL		20 uL		1 uL
STD50 460-721970/7 IC		8260C		5 mL	5 mL		50 uL		1 uL
STD200 460-721970/8 IC		8260C		5 mL	5 mL				1 uL
STD500 460-721970/9 IC		8260C		5 mL	5 mL				1 uL
ICV 460-721970/18		8260C		5 mL	5 mL			20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260MIX1COMB 00125	8260SURR250 00212	8FreonHi 00023	8FreonsSS 00023	ACROLEIN SP 00116	ACROLEIN W 00112
BFB 460-721970/1		8260C							
STD8 460-721970/3 IC		8260C			1 uL				
STD1 460-721970/4 IC		8260C		10 uL	1 uL				4 uL
STD5 460-721970/5 IC		8260C		10 uL	1 uL				4 uL
STD20 460-721970/6 ICIS		8260C		20 uL	1 uL				4 uL
STD50 460-721970/7 IC		8260C		50 uL	1 uL				10 uL
STD200 460-721970/8 IC		8260C			1 uL	20 uL			20 uL
STD500 460-721970/9 IC		8260C			1 uL	50 uL			40 uL
ICV 460-721970/18		8260C			1 uL		20 uL	4 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 721970 Batch Start Date: 09/04/20 13:21 Batch Analyst: Starzec, Margaret

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACRY/EPIH MIX 00077	BFB 00026	Ethanol mix 00043	GAS C SP 00372	GAS Hi 00370	GASES Li 00384
BFB 460-721970/1		8260C			1 uL				
STD8 460-721970/3 IC		8260C		20 uL					2.5 uL
STD1 460-721970/4 IC		8260C							10 uL
STD5 460-721970/5 IC		8260C							10 uL
STD20 460-721970/6 ICIS		8260C							20 uL
STD50 460-721970/7 IC		8260C							50 uL
STD200 460-721970/8 IC		8260C				20 uL		20 uL	
STD500 460-721970/9 IC		8260C				50 uL		50 uL	
ICV 460-721970/18		8260C					20 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MIX 2 Hi 00102	MIX I Hi 00129				
BFB 460-721970/1		8260C							
STD8 460-721970/3 IC		8260C							
STD1 460-721970/4 IC		8260C							
STD5 460-721970/5 IC		8260C							
STD20 460-721970/6 ICIS		8260C							
STD50 460-721970/7 IC		8260C							
STD200 460-721970/8 IC		8260C		20 uL	20 uL				
STD500 460-721970/9 IC		8260C		50 uL	50 uL				
ICV 460-721970/18		8260C							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 721970 Batch Start Date: 09/04/20 13:21 Batch Analyst: Starzec, Margaret

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 722597 Batch Start Date: 09/08/20 19:03 Batch Analyst: Sgro, Angela M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260ISNEW 00129	8260MIX1COMB 00125	8260SURR250 00212
BFB 460-722597/1		8260C		5 mL	5 mL				
CCVIS 460-722597/3		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
LCS 460-722597/4		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
LCSD 460-722597/5		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
MB 460-722597/10		8260C		5 mL	5 mL		1 uL		1 uL
460-217547-A-8	TB	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL
460-217547-A-7	FB	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL
460-217547-B-2	MW-204	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL
460-217547-A-3	MW-205	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00112	BFB 00026	GASES Li 00384			
BFB 460-722597/1		8260C			1 uL				
CCVIS 460-722597/3		8260C		4 uL		20 uL			
LCS 460-722597/4		8260C		4 uL		20 uL			
LCSD 460-722597/5		8260C		4 uL		20 uL			
MB 460-722597/10		8260C							
460-217547-A-8	TB	8260C	T						
460-217547-A-7	FB	8260C	T						
460-217547-B-2	MW-204	8260C	T						
460-217547-A-3	MW-205	8260C	T						

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 722597 Batch Start Date: 09/08/20 19:03 Batch Analyst: Sgro, Angela M

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 722709 Batch Start Date: 09/09/20 07:47 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260ISNEW 00129	8260MIX1COMB 00125	8260SURR250 00212
BFB 460-722709/1		8260C		5 mL	5 mL				
CCVIS 460-722709/3		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
LCS 460-722709/4		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
LCSD 460-722709/5		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
MB 460-722709/8		8260C		5 mL	5 mL		1 uL		1 uL
460-217547-B-5	MW-213	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00112	BFB 00026	GASES Li 00385			
BFB 460-722709/1		8260C			1 uL				
CCVIS 460-722709/3		8260C		4 uL		20 uL			
LCS 460-722709/4		8260C		4 uL		20 uL			
LCSD 460-722709/5		8260C		4 uL		20 uL			
MB 460-722709/8		8260C							
460-217547-B-5	MW-213	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 722834 Batch Start Date: 09/09/20 17:54 Batch Analyst: Sgro, Angela M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260ISNEW 00129	8260MIX1COMB 00125	8260SURR250 00212
BFB 460-722834/1		8260C		5 mL	5 mL				
CCVIS 460-722834/4		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
LCS 460-722834/5		8260C		5 mL	5 mL		1 uL	20 uL	1 uL
MB 460-722834/9		8260C		5 mL	5 mL		1 uL		1 uL
460-217547-A-6	DUP	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL
460-217547-A-1	MW-203	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL
460-217547-A-4	MW-206	8260C	T	5 mL	5 mL	<2 SU	1 uL		1 uL
460-217576-A-4 MS	DDC-07-PD	8260C	T	5 mL	5 mL	<2 SU	1 uL	20 uL	1 uL
460-217576-A-4 MSD	DDC-07-PD	8260C	T	5 mL	5 mL	<2 SU	1 uL	20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00112	BFB 00026	GASES Li 00385			
BFB 460-722834/1		8260C			1 uL				
CCVIS 460-722834/4		8260C		4 uL		20 uL			
LCS 460-722834/5		8260C		4 uL		20 uL			
MB 460-722834/9		8260C							
460-217547-A-6	DUP	8260C	T						
460-217547-A-1	MW-203	8260C	T						
460-217547-A-4	MW-206	8260C	T						
460-217576-A-4 MS	DDC-07-PD	8260C	T	4 uL		20 uL			
460-217576-A-4 MSD	DDC-07-PD	8260C	T	4 uL		20 uL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217547-1

SDG No.:

Batch Number: 722834 Batch Start Date: 09/09/20 17:54 Batch Analyst: Sgro, Angela M

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method PFC IDA

Fluorinated Hydrocarbons by Method PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
MW-203	460-217547-1	36	57	93	67	77	100	213 *5	82
MW-204	460-217547-2	39	54	91	63	66	90	143	66
MW-205	460-217547-3	58	77	92	86	88	95	101	92
MW-213	460-217547-5	49	68	88	81	91	92	157 *5	91
DUP	460-217547-6	60	79	90	92	85	95	108	90
FB	460-217547-7	84	90	97	102	101	101	112	100
	MB 320-410910/1-A	84	86	103	95	92	106	103	93
	LCS 320-410910/2-A	55	56	72	64	66	76	68	58
	LCSD 320-410910/3-A	63	65	83	70	76	84	78	70

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHxS = 18O2 PFHxS	25-150
C4PFHA = 13C4 PFHpA	25-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFOSA #	M282FTS #	PFDA #	d3NMFOS #	d5NEFOS #	PFUnA #
MW-203	460-217547-1	97	86	75	166 *5	81	73	76	75
MW-204	460-217547-2	87	70	66	113	70	56	67	69
MW-205	460-217547-3	94	91	77	101	84	68	74	91
MW-213	460-217547-5	88	94	72	113	100	61	71	89
DUP	460-217547-6	95	93	79	95	99	68	74	93
FB	460-217547-7	101	102	88	118	106	87	89	114
	MB 320-410910/1-A	104	95	90	115	101	86	89	99
	LCS 320-410910/2-A	72	64	58	76	66	58	62	69
	LCSD 320-410910/3-A	81	70	69	79	75	66	73	71

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFNA = 13C5 PFNA	25-150
PFOSA = 13C8 FOSA	25-150
M282FTS = M2-8:2 FTS	25-150
PFDA = 13C2 PFDA	25-150
d3NMFOS = d3-NMeFOSAA	25-150
d5NEFOS = d5-NEtFOSAA	25-150
PFUnA = 13C2 PFUnA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
MW-203	460-217547-1	74	69
MW-204	460-217547-2	70	58
MW-205	460-217547-3	71	84
MW-213	460-217547-5	72	74
DUP	460-217547-6	81	97
FB	460-217547-7	96	93
	MB 320-410910/1-A	94	93
	LCS 320-410910/2-A	65	57
	LCSD 320-410910/3-A	73	88

	QC LIMITS
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2 PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Acquity ID: 2.1 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
MW-206	460-217547-4	57	70	81	78	80	86	107	81
	MB 320-411226/1-A	73	90	94	89	92	100	94	92
	LCS 320-411226/2-A	90	94	96	90	96	98	101	93
	LCSD 320-411226/3-A	86	89	94	90	91	94	95	89

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHxS = 18O2 PFHxS	25-150
C4PFHA = 13C4 PFHpA	25-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Acquity ID: 2.1 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFOSA #	M282FTS #	PFDA #	d3NMFOS #	PFUnA #	d5NEFOS #
MW-206	460-217547-4	82	87	74	93	80	67	75	71
	MB 320-411226/1-A	101	97	89	102	100	78	98	84
	LCS 320-411226/2-A	99	100	88	96	99	76	100	84
	LCSD 320-411226/3-A	97	94	81	92	95	79	96	79

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFNA = 13C5 PFNA	25-150
PFOSA = 13C8 FOSA	25-150
M282FTS = M2-8:2 FTS	25-150
PFDA = 13C2 PFDA	25-150
d3NMFOS = d3-NMeFOSAA	25-150
PFUnA = 13C2 PFUnA	25-150
d5NEFOS = d5-NEtFOSAA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Acquity ID: 2.1 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
MW-206	460-217547-4	70	64
	MB 320-411226/1-A	97	92
	LCS 320-411226/2-A	95	92
	LCSD 320-411226/3-A	88	89

	QC LIMITS
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2 PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A18_PFC_A_075.d

Lab ID: LCS 320-410910/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	39.79	99	76-136	
Perfluoropentanoic acid (PFPeA)	40.0	37.53	94	71-131	
Perfluorohexanoic acid (PFHxA)	40.0	36.61	92	73-133	
Perfluoroheptanoic acid (PFHpA)	40.0	34.02	85	72-132	
Perfluorooctanoic acid (PFOA)	40.0	39.17	98	70-130	
Perfluorononanoic acid (PFNA)	40.0	37.61	94	75-135	
Perfluorodecanoic acid (PFDA)	40.0	34.20	86	76-136	
Perfluoroundecanoic acid (PFUnA)	40.0	42.31	106	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	31.77	79	71-131	
Perfluorotridecanoic acid (PFTriA)	40.0	31.90	80	71-131	
Perfluorotetradecanoic acid (PFTeA)	40.0	45.97	115	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.55	92	67-127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.14	88	59-119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.25	95	76-136	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.50	96	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.21	89	71-131	
Perfluorooctanesulfonamide (FOSA)	40.0	39.32	98	73-133	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.79	102	76-136	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	36.89	92	76-136	
6:2 FTS	37.9	35.12	93	59-175	
8:2 FTS	38.3	36.14	94	75-135	
13C4 PFBA	100	54.88	55	25-150	
13C5 PFPeA	100	56.03	56	25-150	
13C2 PFHxA	100	63.98	64	25-150	
13C4 PFHpA	100	66.20	66	25-150	
13C4 PFOA	100	58.14	58	25-150	
13C5 PFNA	100	64.17	64	25-150	
13C2 PFDA	100	65.62	66	25-150	
13C2 PFUnA	100	69.05	69	25-150	
13C2 PFDoA	100	64.77	65	25-150	
13C2 PFTeDA	100	57.49	57	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A18_PFC_A_075.d

Lab ID: LCS 320-410910/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C3 PFBS	93.0	66.66	72	25-150	
18O2 PFHxS	94.6	71.61	76	25-150	
13C4 PFOS	95.6	68.55	72	25-150	
13C8 FOSA	100	58.33	58	25-150	
d3-NMeFOSAA	100	57.83	58	25-150	
d5-NEtFOSAA	100	61.77	62	25-150	
M2-6:2 FTS	95.0	64.46	68	25-150	
M2-8:2 FTS	95.8	72.48	76	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.11_A9_PFC_AA_026.d

Lab ID: LCS 320-411226/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	43.69	109	76-136	
Perfluoropentanoic acid (PFPeA)	40.0	39.79	99	71-131	
Perfluorohexanoic acid (PFHxA)	40.0	42.56	106	73-133	
Perfluoroheptanoic acid (PFHpA)	40.0	42.66	107	72-132	
Perfluorooctanoic acid (PFOA)	40.0	41.65	104	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.80	107	75-135	
Perfluorodecanoic acid (PFDA)	40.0	43.22	108	76-136	
Perfluoroundecanoic acid (PFUnA)	40.0	42.76	107	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	39.08	98	71-131	
Perfluorotridecanoic acid (PFTriA)	40.0	37.81	95	71-131	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.52	96	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	38.07	108	67-127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.33	94	59-119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.41	106	76-136	
Perfluorooctanesulfonic acid (PFOS)	37.1	38.35	103	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.33	99	71-131	
Perfluorooctanesulfonamide (FOSA)	40.0	42.22	106	73-133	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.82	115	76-136	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.81	105	76-136	
6:2 FTS	37.9	37.34	98	59-175	
8:2 FTS	38.3	39.15	102	75-135	
13C4 PFBA	100	89.92	90	25-150	
13C5 PFPeA	100	93.59	94	25-150	
13C2 PFHxA	100	89.61	90	25-150	
13C4 PFHpA	100	95.68	96	25-150	
13C4 PFOA	100	93.22	93	25-150	
13C5 PFNA	100	99.94	100	25-150	
13C2 PFDA	100	99.18	99	25-150	
13C2 PFUnA	100	100.3	100	25-150	
13C2 PFDoA	100	95.33	95	25-150	
13C2 PFTeDA	100	92.20	92	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.11_A9_PFC_AA_026.d

Lab ID: LCS 320-411226/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C3 PFBS	93.0	89.57	96	25-150	
18O2 PFHxS	94.6	92.48	98	25-150	
13C4 PFOS	95.6	94.94	99	25-150	
13C8 FOSA	100	88.13	88	25-150	
d3-NMeFOSAA	100	76.16	76	25-150	
d5-NEtFOSAA	100	83.54	84	25-150	
M2-6:2 FTS	95.0	95.61	101	25-150	
M2-8:2 FTS	95.8	91.77	96	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A18_PFC_A_076.d

Lab ID: LCSD 320-410910/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	39.95	100	0	30	76-136	
Perfluoropentanoic acid (PFPeA)	40.0	39.21	98	4	30	71-131	
Perfluorohexanoic acid (PFHxA)	40.0	39.20	98	7	30	73-133	
Perfluoroheptanoic acid (PFHpA)	40.0	36.55	91	7	30	72-132	
Perfluorooctanoic acid (PFOA)	40.0	39.44	99	1	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	44.28	111	16	30	75-135	
Perfluorodecanoic acid (PFDA)	40.0	32.38	81	5	30	76-136	
Perfluoroundecanoic acid (PFUnA)	40.0	42.82	107	1	30	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	32.50	81	2	30	71-131	
Perfluorotridecanoic acid (PFTriA)	40.0	33.88	85	6	30	71-131	
Perfluorotetradecanoic acid (PFTeA)	40.0	42.61	107	8	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.20	91	1	30	67-127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.49	89	1	30	59-119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.83	99	4	30	76-136	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.53	96	0	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	33.52	87	2	30	71-131	
Perfluorooctanesulfonamide (FOSA)	40.0	38.85	97	1	30	73-133	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.80	99	2	30	76-136	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.29	93	1	30	76-136	
6:2 FTS	37.9	34.57	91	2	30	59-175	
8:2 FTS	38.3	37.33	97	3	30	75-135	
13C4 PFBA	100	63.30	63			25-150	
13C5 PFPeA	100	64.85	65			25-150	
13C2 PFHxA	100	69.92	70			25-150	
13C4 PFHpA	100	76.44	76			25-150	
13C4 PFOA	100	70.35	70			25-150	
13C5 PFNA	100	69.97	70			25-150	
13C2 PFDA	100	75.35	75			25-150	
13C2 PFUnA	100	71.26	71			25-150	
13C2 PFDoA	100	72.73	73			25-150	
13C2 PFTeDA	100	87.81	88			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A18_PFC_A_076.d

Lab ID: LCSD 320-410910/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C3 PFBS	93.0	77.08	83			25-150	
18O2 PFHxS	94.6	79.73	84			25-150	
13C4 PFOS	95.6	77.46	81			25-150	
13C8 FOSA	100	68.60	69			25-150	
d3-NMeFOSAA	100	66.49	66			25-150	
d5-NEtFOSAA	100	72.74	73			25-150	
M2-6:2 FTS	95.0	74.37	78			25-150	
M2-8:2 FTS	95.8	75.94	79			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.11_A9_PFC_AA_027.d

Lab ID: LCSD 320-411226/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	43.48	109	0	30	76-136	
Perfluoropentanoic acid (PFPeA)	40.0	39.01	98	2	30	71-131	
Perfluorohexanoic acid (PFHxA)	40.0	41.96	105	1	30	73-133	
Perfluoroheptanoic acid (PFHpA)	40.0	42.11	105	1	30	72-132	
Perfluorooctanoic acid (PFOA)	40.0	41.33	103	1	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	45.26	113	6	30	75-135	
Perfluorodecanoic acid (PFDA)	40.0	41.84	105	3	30	76-136	
Perfluoroundecanoic acid (PFUnA)	40.0	45.15	113	5	30	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	45.36	113	15	30	71-131	
Perfluorotridecanoic acid (PFTriA)	40.0	40.17	100	6	30	71-131	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.04	98	1	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	37.40	106	2	30	67-127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.52	95	1	30	59-119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.88	107	1	30	76-136	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.79	102	1	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.93	101	2	30	71-131	
Perfluorooctanesulfonamide (FOSA)	40.0	45.31	113	7	30	73-133	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.86	110	4	30	76-136	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	42.04	105	1	30	76-136	
6:2 FTS	37.9	35.19	93	6	30	59-175	
8:2 FTS	38.3	40.25	105	3	30	75-135	
13C4 PFBA	100	86.21	86			25-150	
13C5 PFPeA	100	89.37	89			25-150	
13C2 PFHxA	100	89.66	90			25-150	
13C4 PFHpA	100	91.28	91			25-150	
13C4 PFOA	100	88.67	89			25-150	
13C5 PFNA	100	93.99	94			25-150	
13C2 PFDA	100	94.51	95			25-150	
13C2 PFUnA	100	96.43	96			25-150	
13C2 PFDoA	100	87.92	88			25-150	
13C2 PFTeDA	100	89.09	89			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.11_A9_PFC_AA_027.d

Lab ID: LCSD 320-411226/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C3 PFBS	93.0	87.09	94			25-150	
18O2 PFHxS	94.6	89.31	94			25-150	
13C4 PFOS	95.6	92.89	97			25-150	
13C8 FOSA	100	81.27	81			25-150	
d3-NMeFOSAA	100	78.66	79			25-150	
d5-NEtFOSAA	100	79.34	79			25-150	
M2-6:2 FTS	95.0	90.28	95			25-150	
M2-8:2 FTS	95.8	88.12	92			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab File ID: 2020.09.10_A18_PFC_A_074.d Lab Sample ID: MB 320-410910/1-A

Matrix: Water Date Extracted: 09/09/2020 18:52

Instrument ID: A18 Date Analyzed: 09/10/2020 15:11

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-410910/2-A	2020.09.10_A18_PFC_A_075.d	09/10/2020 15:20
	LCSD 320-410910/3-A	2020.09.10_A18_PFC_A_076.d	09/10/2020 15:29
FB	460-217547-7	2020.09.10_A18_PFC_A_077.d	09/10/2020 15:38
MW-203	460-217547-1	2020.09.11_A18_PFC_A_016.d	09/11/2020 12:41
MW-204	460-217547-2	2020.09.11_A18_PFC_A_017.d	09/11/2020 12:50
MW-205	460-217547-3	2020.09.11_A18_PFC_A_018.d	09/11/2020 13:00
MW-213	460-217547-5	2020.09.11_A18_PFC_A_019.d	09/11/2020 13:09
DUP	460-217547-6	2020.09.11_A18_PFC_A_020.d	09/11/2020 13:18

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab File ID: 2020.09.11_A9_PFC_AA_025.d Lab Sample ID: MB 320-411226/1-A

Matrix: Water Date Extracted: 09/10/2020 18:32

Instrument ID: A9 Date Analyzed: 09/11/2020 13:14

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-411226/2-A	2020.09.11_A9_PFC_AA_026.d	09/11/2020 13:24
	LCSD 320-411226/3-A	2020.09.11_A9_PFC_AA_027.d	09/11/2020 13:33
MW-206	460-217547-4	2020.09.11_A9_PFC_AA_039.d	09/11/2020 15:25

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Sample No.: IC 320-406555/5 Date Analyzed: 08/25/2020 17:10

Instrument ID: A18 GC Column: Gemini C18 3x50 ID: 3(mm)

Lab File ID (Standard): 2020.08.25_A18_ICAL Heated Purge: (Y/N) N

Calibration ID: 51647

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		10564097	4.16				
UPPER LIMIT		15846146	4.36				
LOWER LIMIT		5282049	3.96				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-406555/9		10921372	4.14				
ICV 320-406555/10		10812430	4.14				
CCV 320-410948/3 CCVIS		10561280	4.10				
CCV 320-411371/3 CCVIS		12703244	4.10				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Sample No.: CCV 320-410948/3 Date Analyzed: 09/10/2020 12:54

Instrument ID: A18 GC Column: Gemini C18 3x50 ID: 3(mm)

Lab File ID (Standard): 2020.09.10_A18_PFC_ Heated Purge: (Y/N) N

Calibration ID: 51647

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		10561280	4.10				
UPPER LIMIT		15841920	4.30				
LOWER LIMIT		5280640	3.90				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-410948/1		12124580	4.11				
CCVL 320-410948/2		11318081	4.10				
CCV 320-411087/1		10146011	4.08				
MB 320-410910/1-A		11427575	4.07				
LCS 320-410910/2-A		12085104	4.07				
LCSD 320-410910/3-A		11853441	4.07				
460-217547-7	FB	11939642	4.08				
CCV 320-411087/13		10911451	4.08				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Sample No.: CCV 320-411371/3 Date Analyzed: 09/11/2020 11:10

Instrument ID: A18 GC Column: Gemini C18 3x50 ID: 3(mm)

Lab File ID (Standard): 2020.09.11_A18_PFC_ Heated Purge: (Y/N) N

Calibration ID: 51647

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		12703244	4.10				
UPPER LIMIT		19054866	4.30				
LOWER LIMIT		6351622	3.90				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-411371/1		13554288	4.10				
CCVL 320-411371/2		11242049	4.09				
CCV 320-411377/1		11619087	4.09				
460-217547-1	MW-203	11958048	4.09				
460-217547-2	MW-204	12198246	4.08				
460-217547-3	MW-205	12038587	4.08				
460-217547-5	MW-213	11995113	4.10				
460-217547-6	DUP	12435808	4.08				
CCV 320-411377/10		11668243	4.09				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Sample No.: IC 320-410935/5 Date Analyzed: 09/10/2020 10:46

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm)

Lab File ID (Standard): 2020.09.10_A9 _PFC_ Heated Purge: (Y/N) N

Calibration ID: 51814

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		6156052	3.37				
UPPER LIMIT		9234078	3.57				
LOWER LIMIT		3078026	3.17				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-410935/14		6274513	3.36				
ICV 320-410935/15		6105955	3.35				
CCV 320-411300/3 CCVIS		6083088	3.37				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Sample No.: CCV 320-411300/3 Date Analyzed: 09/11/2020 09:49

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm)

Lab File ID (Standard): 2020.09.11_A9_PFC_A Heated Purge: (Y/N) N

Calibration ID: 51814

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		6083088	3.37				
UPPER LIMIT		9124632	3.57				
LOWER LIMIT		3041544	3.17				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-411300/1		6327562	3.38				
CCVL 320-411300/2		5724089	3.37				
CCV 320-411454/1		6002612	3.35				
MB 320-411226/1-A		6092365	3.35				
LCS 320-411226/2-A		6014667	3.34				
LCSD 320-411226/3-A		6230408	3.35				
CCV 320-411454/13		6006964	3.35				
460-217547-4	MW-206	6232796	3.34				
CCV 320-411454/18		5894884	3.35				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-203 Lab Sample ID: 460-217547-1

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_016.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 13:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 249.7(mL) Date Analyzed: 09/11/2020 12:41

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.13	B	2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.71	J	2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	2.03		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.57	J	2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	5.15		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.76	J	2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.35	J	2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.47	J B	2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	25.0		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.31	B	2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.65	J	20.0	1.90
27619-97-2	6:2 FTS	11.1	J	20.0	2.00
39108-34-4	8:2 FTS	2.00	U	20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-203 Lab Sample ID: 460-217547-1

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_016.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 13:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 249.7(mL) Date Analyzed: 09/11/2020 12:41

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	36		25-150
STL01893	13C5 PFPeA	57		25-150
STL00993	13C2 PFHxA	67		25-150
STL01892	13C4 PFHpA	77		25-150
STL00990	13C4 PFOA	82		25-150
STL00995	13C5 PFNA	86		25-150
STL00996	13C2 PFDA	81		25-150
STL00997	13C2 PFUnA	75		25-150
STL00998	13C2 PFDoA	74		25-150
STL02116	13C2 PFTeDA	69		25-150
STL02337	13C3 PFBS	93		25-150
STL00994	18O2 PFHxS	100		25-150
STL00991	13C4 PFOS	97		25-150
STL01056	13C8 FOSA	75		25-150
STL02118	d3-NMeFOSAA	73		25-150
STL02117	d5-NEtFOSAA	76		25-150
STL02279	M2-6:2 FTS	213	*5	25-150
STL02280	M2-8:2 FTS	166	*5	25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d
Lims ID: 460-217547-E-1-A
Client ID: MW-203
Sample Type: Client
Inject. Date: 11-Sep-2020 12:41:50 ALS Bottle#: 7 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-e-1-a DUE 9/22 (#410910) (WATER)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 09:53:39 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 09:53:39
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.566	2.566	0.0	0.627	6912177	0.9115		36.5	4139	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.574	2.566	0.008	1.003	127765	0.0532			0.9	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.920	2.909	0.011	0.713	8476553	1.44		57.5	1092	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.909	2.920	-0.011	0.996	144610	0.0428			0.2	M
D 9 13C3 PFBS										
301.90 > 80.00	2.950	2.951	-0.001	0.721	10009195	2.16		92.9	193	
D 11 13C2 PFHxA										
315.00 > 270.00	3.290	3.290	0.0	0.804	9895082	1.68		67.2	3696	
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.290	3.290	0.0	1.000	193041	0.0506	Target=13.16		0.7	M
313.00 > 119.00	3.290	3.290	0.0	1.000	14896		12.96(6.58-19.74)		2.1	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.702	3.702	0.0	0.905	5808645	2.37		100	5318	
D 18 13C4 PFHpA										
367.00 > 322.00	3.693	3.702	-0.009	0.902	9668893	1.92		76.9	6351	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.702	3.702	0.0	1.003	153818	0.0392	Target=3.69		1.6	M
363.00 > 169.00	3.693	3.702	-0.009	1.000	39157		3.93(1.85-5.54)		11.9	M
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.702	3.702	0.0	1.000	106366	0.0367	Target=3.35		1.5	M
399.00 > 99.00	3.702	3.702	0.0	1.000	28686		3.71(1.67-5.02)		4.1	M
D 20 M2-6:2 FTS										
429.00 > 81.00	4.076	4.068	0.008	0.996	4735691	5.06		213	366	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
21 6:2 FTS										
427.00 > 407.00	4.076	4.068	0.008	1.000	1270636	0.2772			999	
D 25 13C4 PFOA										
417.00 > 372.00	4.092	4.092	0.0	1.000	9800350	2.05		81.9	6376	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.092	4.092	0.0	1.000	514484	0.1286	Target=2.91		8.8	M
413.00 > 169.00	4.092	4.092	0.0	1.000	208282		2.47(1.45-4.36)		83.1	M
* 23 13C2 PFOA										
415.00 > 370.00	4.092	4.092	0.0		11958048	2.50			4949	
D 27 13C4 PFOS										
503.00 > 80.00	4.454	4.454	0.0	1.088	3842826	2.32		97.0	353	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.454	4.454	0.0	1.000	1039823	0.6248	Target=4.72		60.9	M
499.00 > 99.00	4.454	4.454	0.0	1.000	181621		5.73(2.36-7.07)		62.2	M
D 30 13C5 PFNA										
468.00 > 423.00	4.470	4.470	0.0	1.092	8296949	2.15		86.1	6278	
31 Perfluorononanoic acid										M
463.00 > 419.00	4.478	4.478	0.0	1.002	60310	0.0189	Target=8.08		3.0	M
463.00 > 169.00	4.478	4.478	0.0	1.002	6319		9.54(4.04-12.12)		6.9	M
D 33 13C8 FOSA										
506.00 > 78.00	4.794	4.786	0.008	1.172	5042875	1.89		75.4	6088	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.803	4.786	0.017	1.002	108393	0.0577			16.3	
D 39 13C2 PFDA										
515.00 > 470.00	4.828	4.828	0.0	1.180	7616915	2.03		81.4	5755	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.837	4.828	0.009	1.182	5377799	3.98		166	845	
37 Perfluorodecanoic acid										M
513.00 > 469.00	4.828	4.828	0.0	1.000	25781	0.008779	Target=10.81		2.0	M
513.00 > 169.00	4.820	4.828	-0.008	0.998	3259		7.91(5.40-16.21)		2.8	
36 8:2 FTS										
527.00 > 507.00	4.828	4.828	0.0	0.998	8752	0.002196			53.7	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.000	5.000	0.0	1.222	4563361	1.82		72.6	3963	
41 NMeFOSAA										M
570.00 > 419.00	5.011	5.000	0.011	1.002	18578	0.0137			16.1	M
D 43 13C2 PFUnA										
565.00 > 520.00	5.157	5.157	0.0	1.260	6928134	1.87		74.7	8634	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.166	5.157	0.009	1.262	5048702	1.90		76.0	3155	
46 NEtFOSA										
584.00 > 419.00	5.166	5.166	0.0	1.000	192577	0.1411			256	
D 56 13C2 PFDoA										
615.00 > 570.00	5.448	5.448	0.0	1.331	6773574	1.85		74.0	7492	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.448	5.448	0.0	1.000	10120	0.003653	Target=8.64		2.8	
613.00 > 169.00	5.448	5.448	0.0	1.000	1455		6.96(4.32-12.96)		5.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 61 13C2 PFTeDA										
715.00 > 670.00	5.960	5.959	0.001	1.456	5198001	1.72		68.9	6298	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 14-Sep-2020 09:53:39 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d

Injection Date: 11-Sep-2020 12:41:50 Instrument ID: A18

Lims ID: 460-217547-E-1-A Lab Sample ID: 320-217547-1

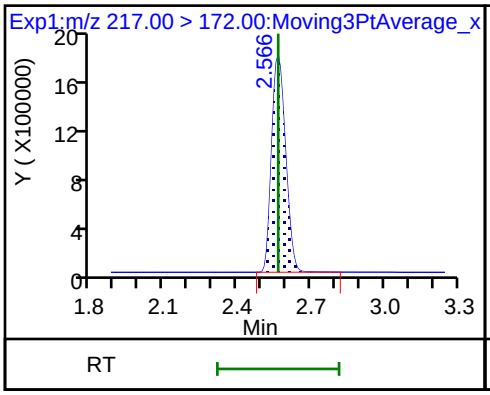
Client ID: MW-203

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 2

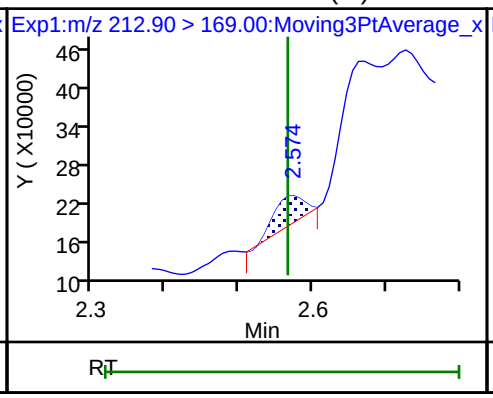
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

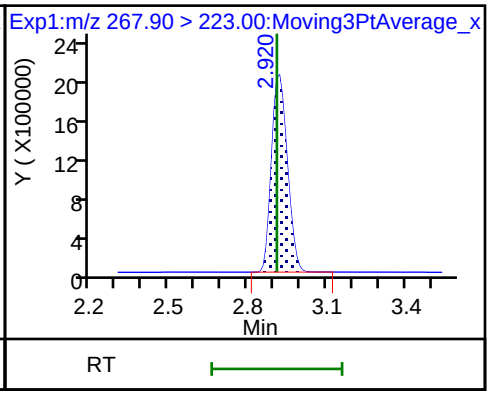
D 1 13C4 PFBA



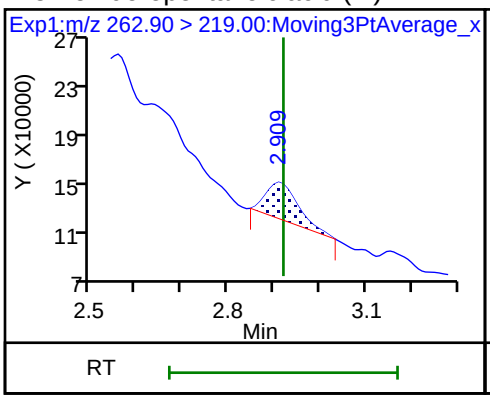
2 Perfluorobutanoic acid (M)



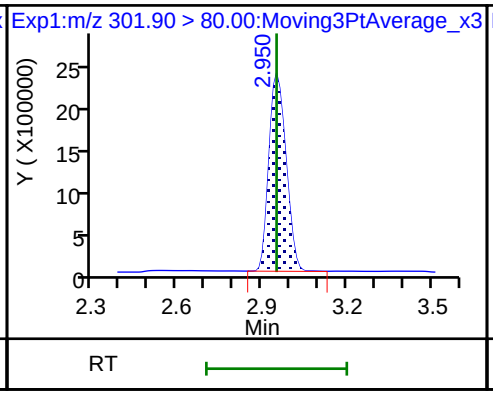
D 4 13C5 PFPeA



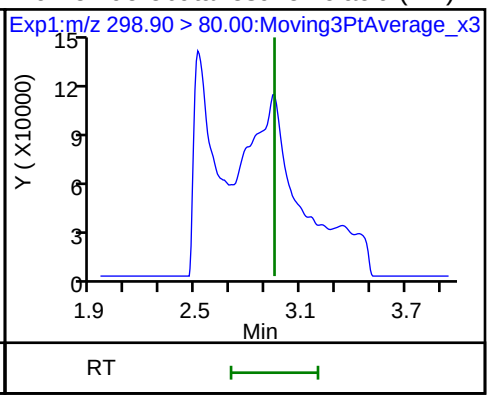
5 Perfluoropentanoic acid (M)



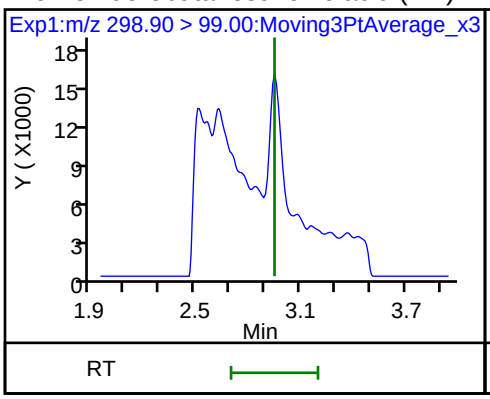
D 9 13C3 PFBS



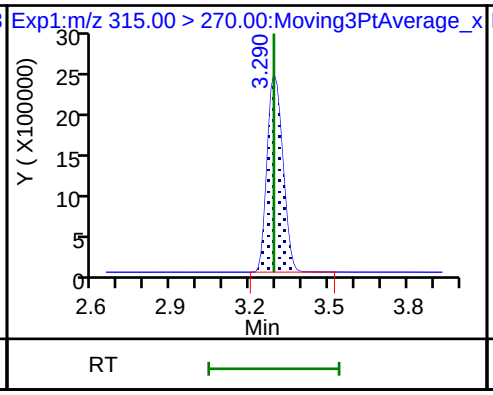
6 Perfluorobutanesulfonic acid (ND)



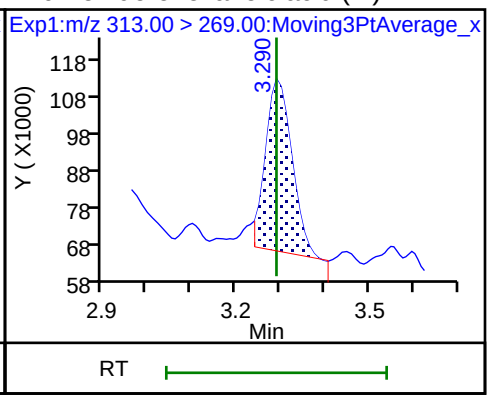
6 Perfluorobutanesulfonic acid (ND)



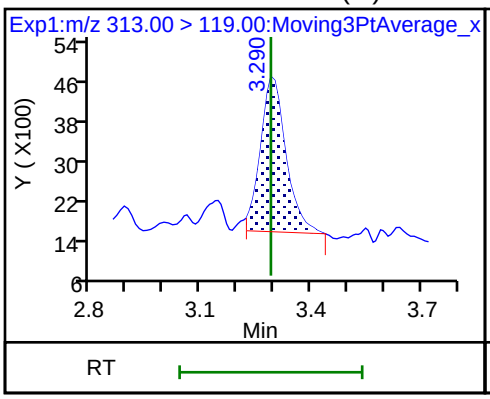
D 11 13C2 PFHxA



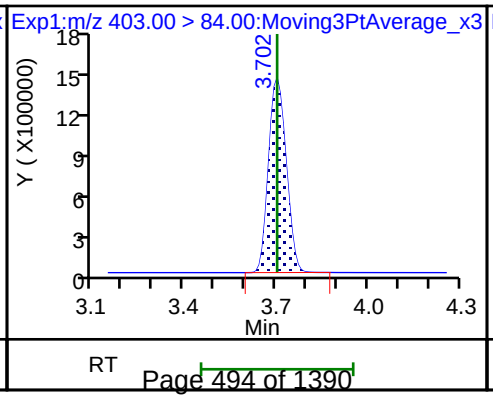
10 Perfluorohexanoic acid (M)



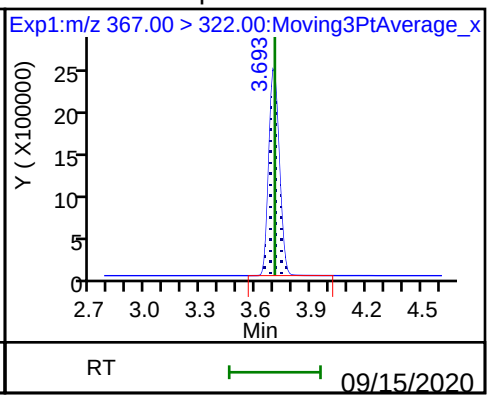
10 Perfluorohexanoic acid (M)



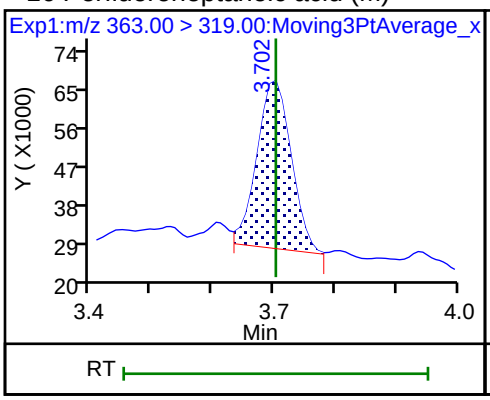
D 17 18O2 PFHxS



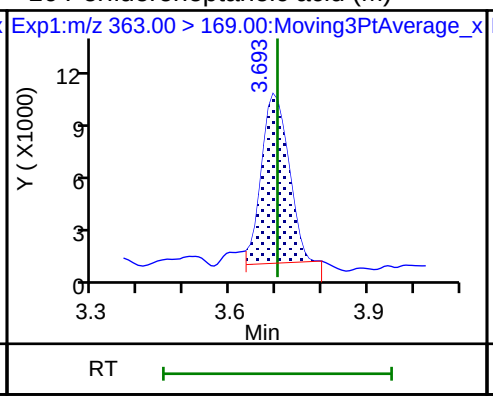
D 18 13C4 PFHpA



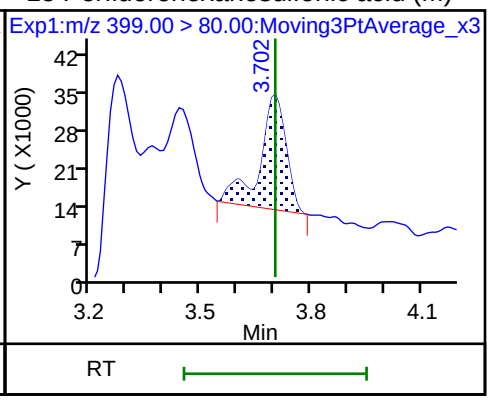
16 Perfluoroheptanoic acid (M)



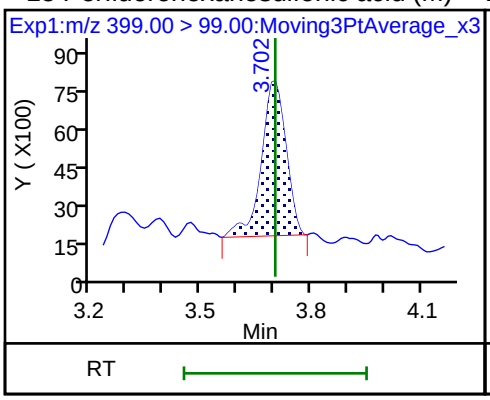
16 Perfluoroheptanoic acid (M)



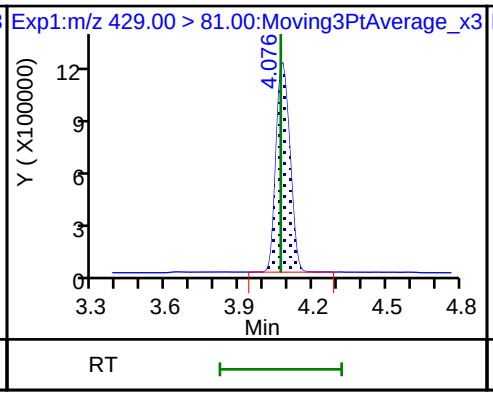
15 Perfluorohexanesulfonic acid (M)



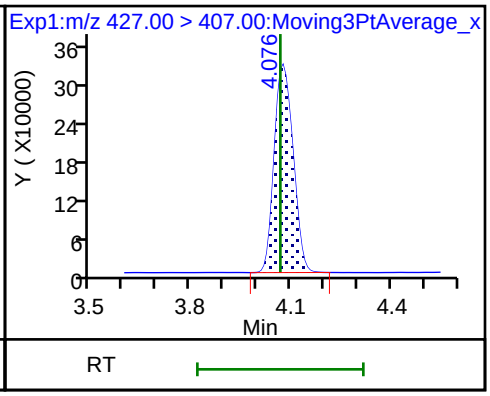
15 Perfluorohexanesulfonic acid (M)



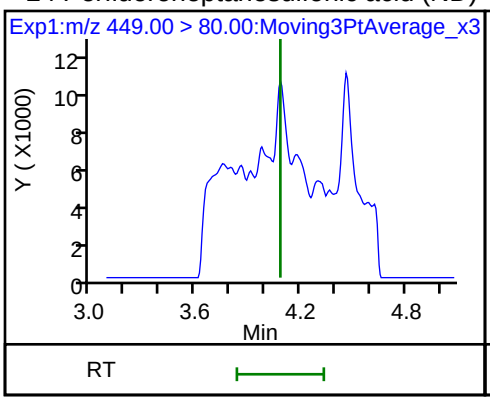
D 20 M2-6:2 FTS



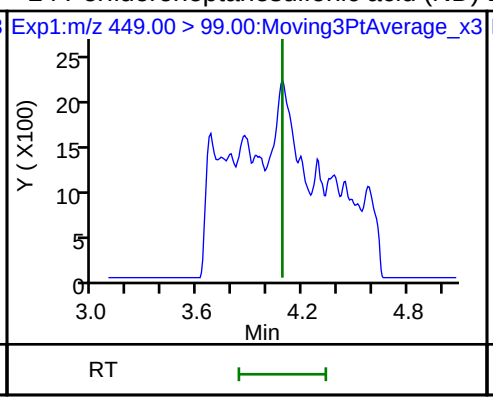
21 6:2 FTS



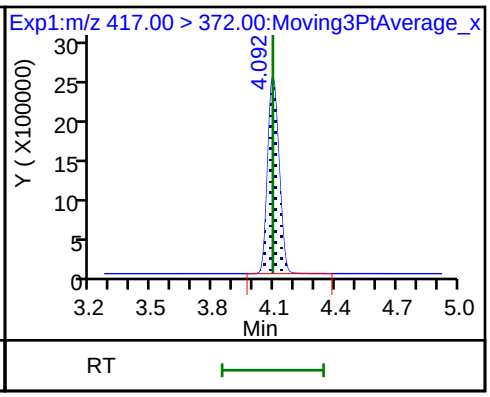
24 Perfluoroheptanesulfonic acid (ND)



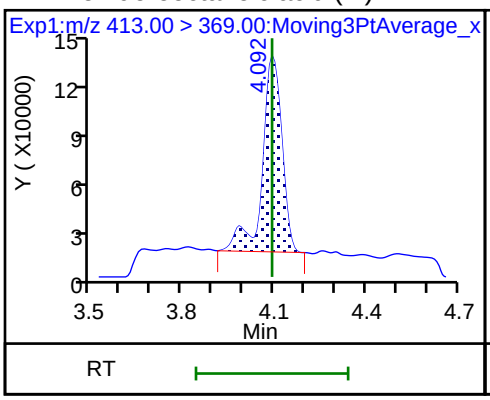
24 Perfluoroheptanesulfonic acid (ND)



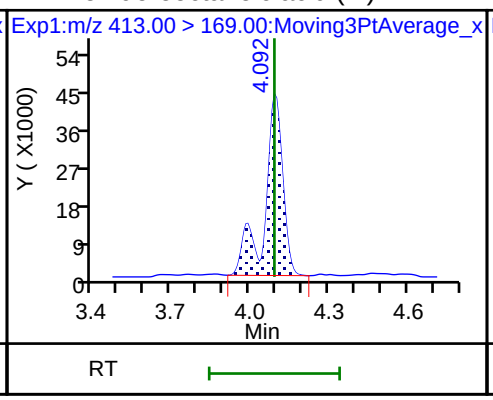
D 25 13C4 PFOA



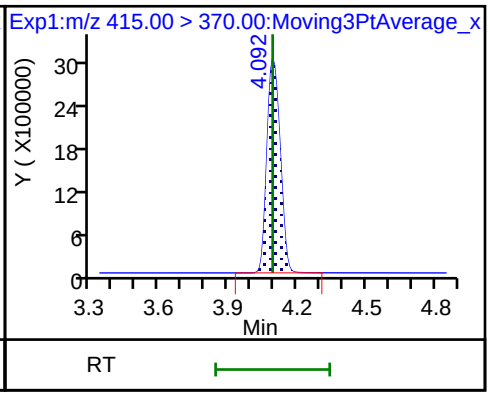
22 Perfluorooctanoic acid (M)



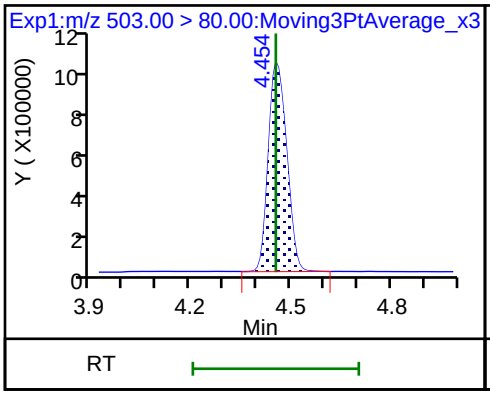
22 Perfluorooctanoic acid (M)



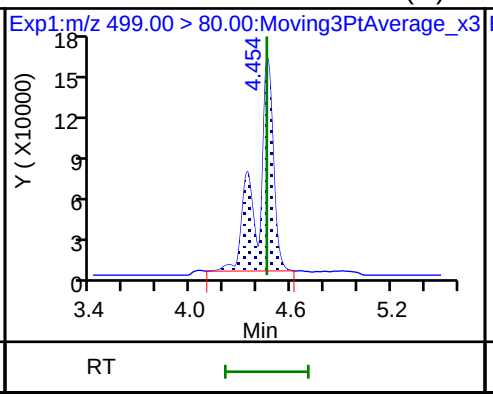
* 23 13C2 PFOA



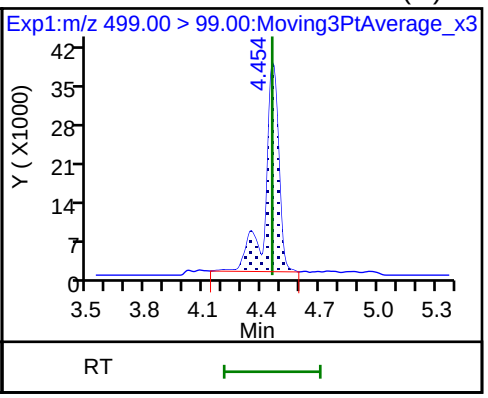
D 27 13C4 PFOS



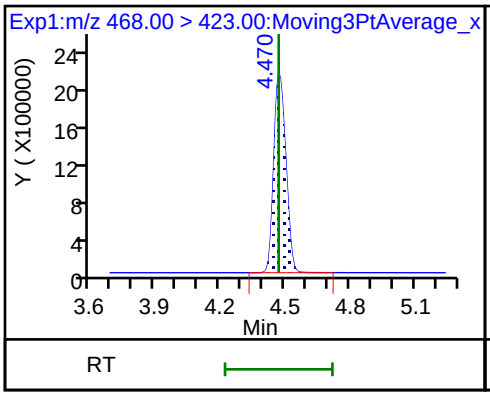
29 Perfluorooctanesulfonic acid (M)



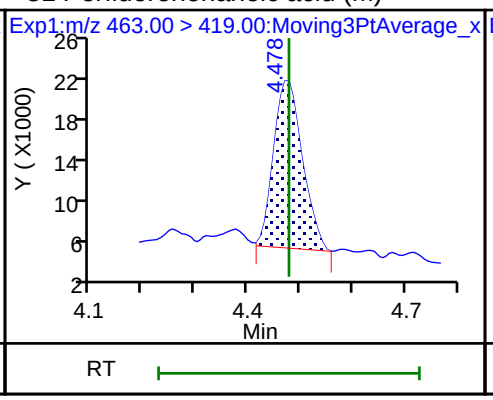
29 Perfluorooctanesulfonic acid (M)



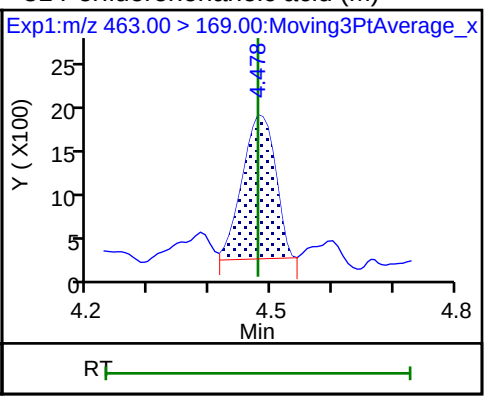
D 30 13C5 PFNA



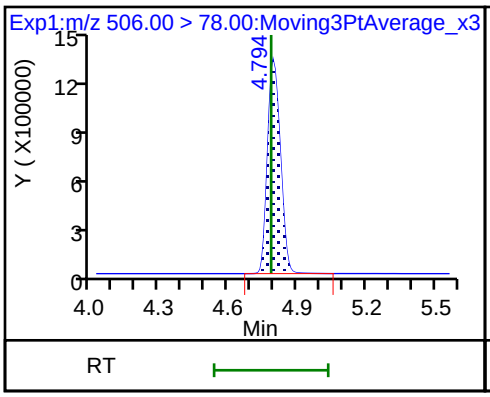
31 Perfluorononanoic acid (M)



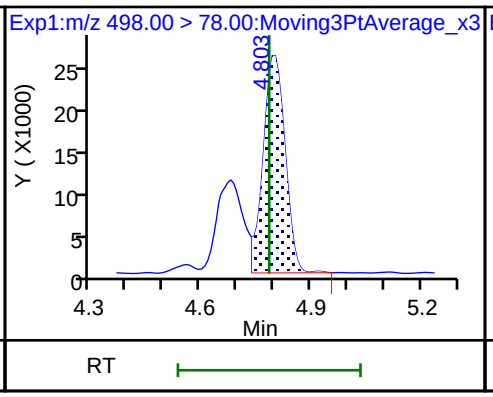
31 Perfluorononanoic acid (M)



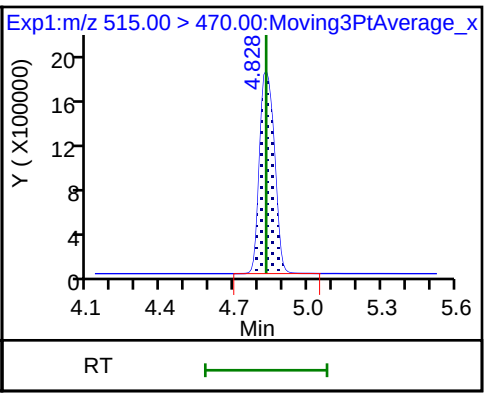
D 33 13C8 FOSA



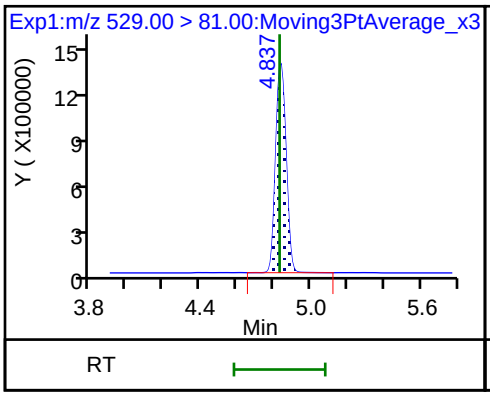
34 Perfluorooctanesulfonamide



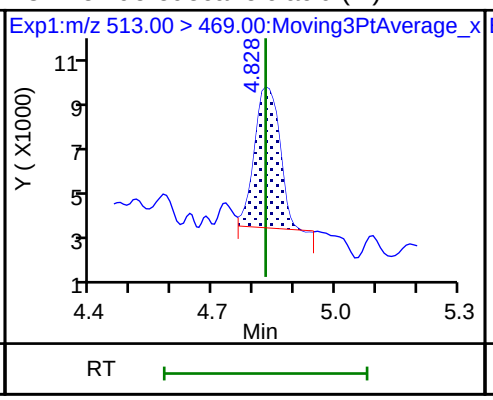
D 39 13C2 PFDA



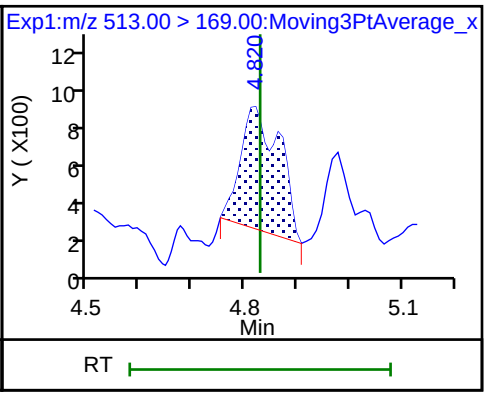
D 38 M2-8:2 FTS



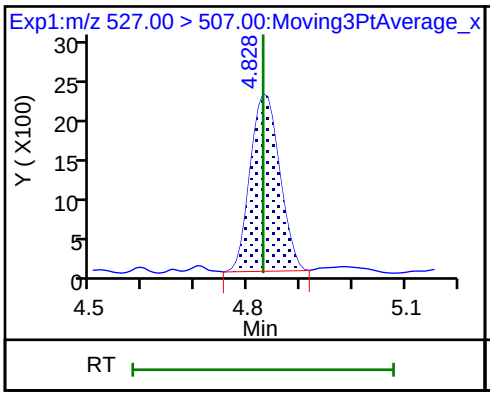
37 Perfluorodecanoic acid (M)



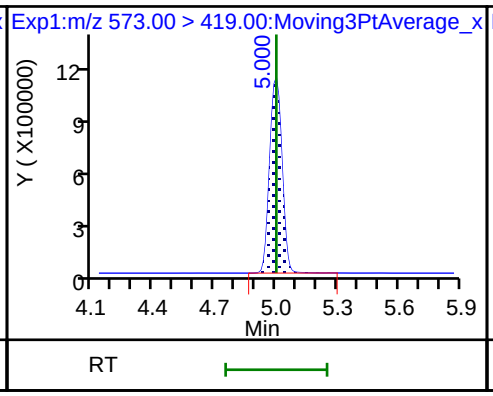
37 Perfluorodecanoic acid



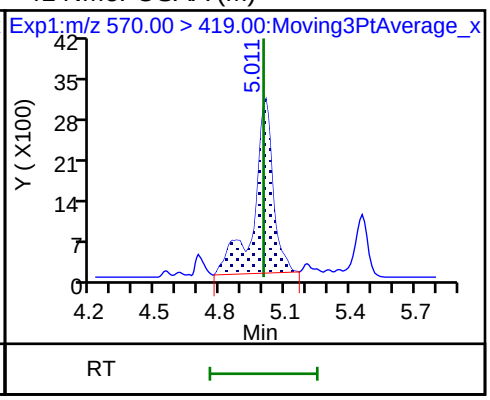
36 8:2 FTS



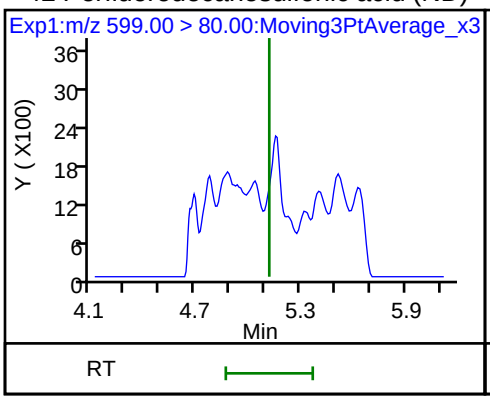
D 40 d3-NMeFOSAA



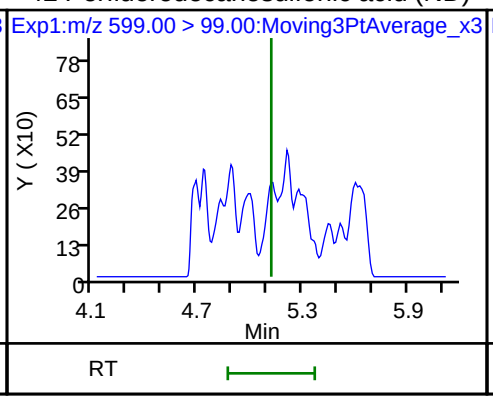
41 NMeFOSAA (M)



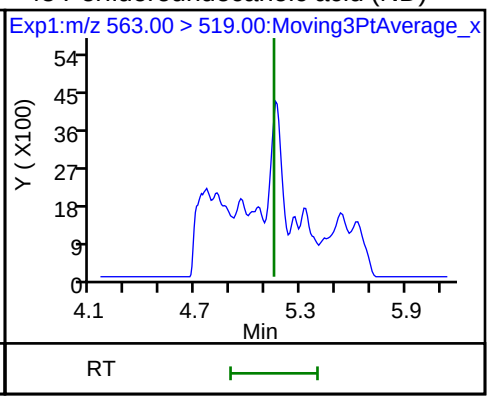
42 Perfluorodecanesulfonic acid (ND)



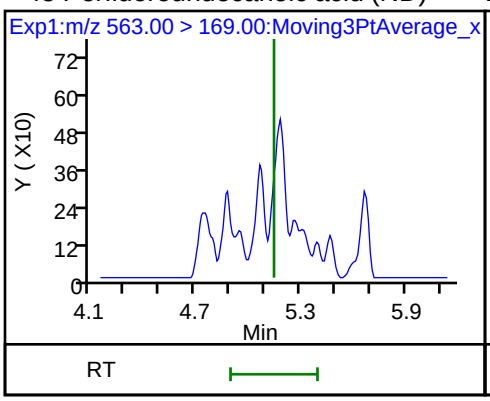
42 Perfluorodecanesulfonic acid (ND)



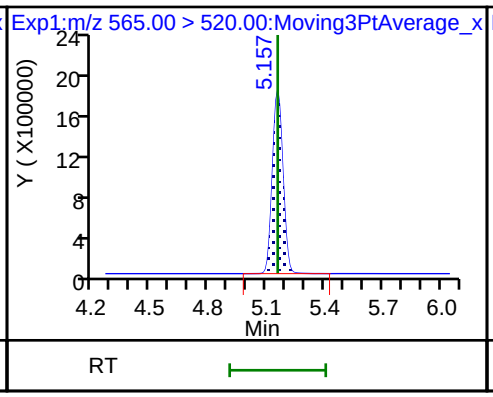
45 Perfluoroundecanoic acid (ND)



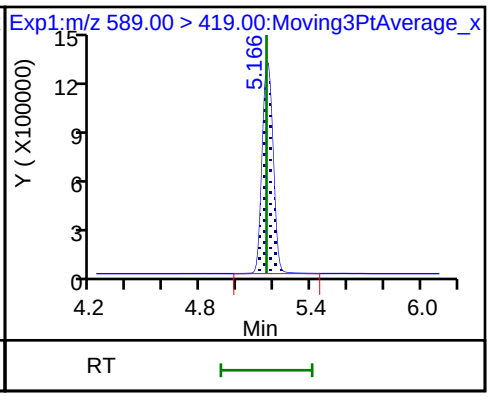
45 Perfluoroundecanoic acid (ND)



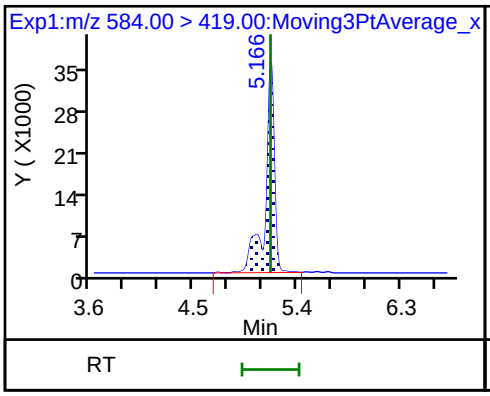
D 43 13C2 PFUnA



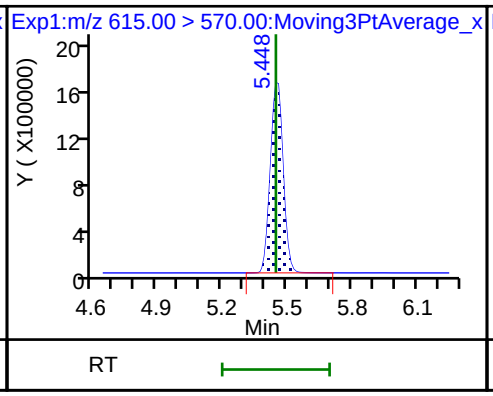
D 44 d5-NEtFOSAA



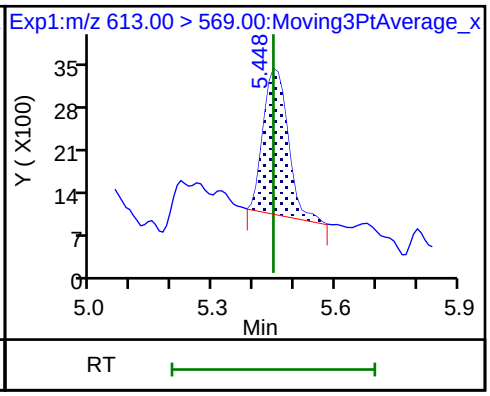
46 NEtFOSA



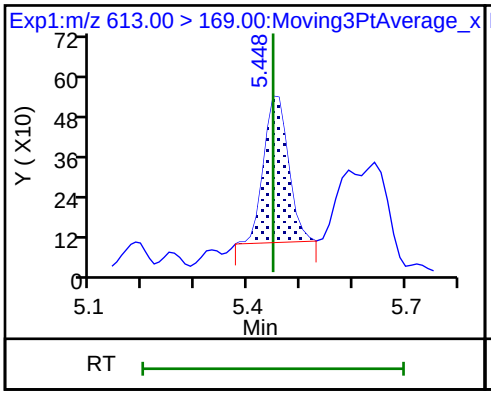
D 56 13C2 PFDoA



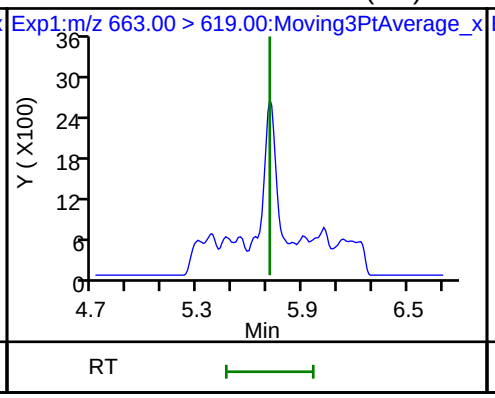
57 Perfluorododecanoic acid



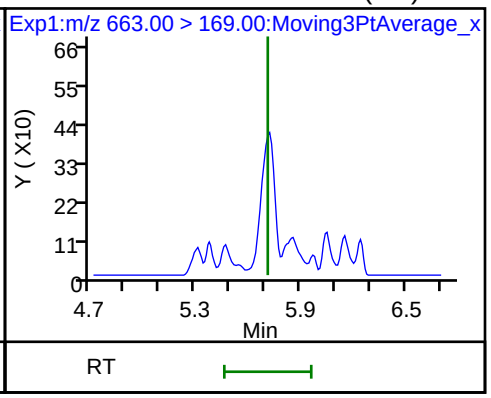
57 Perfluorododecanoic acid



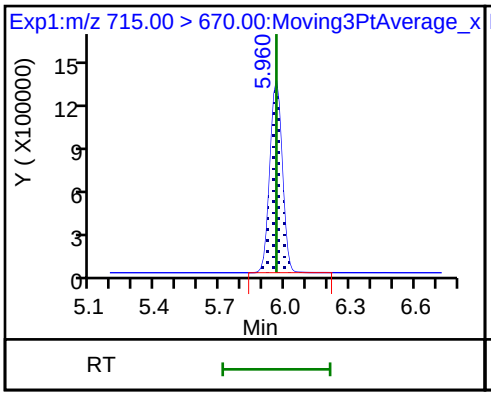
60 Perfluorotridecanoic acid (ND)



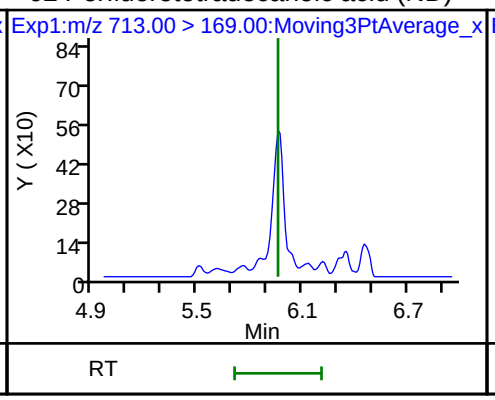
60 Perfluorotridecanoic acid (ND)



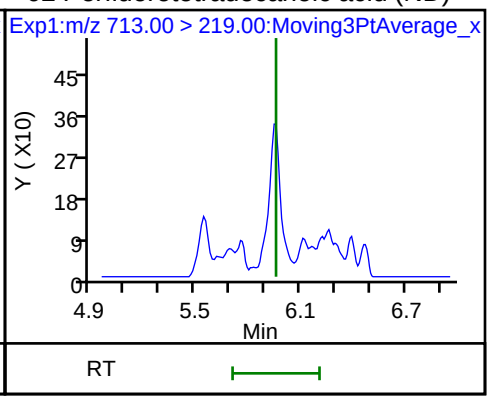
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

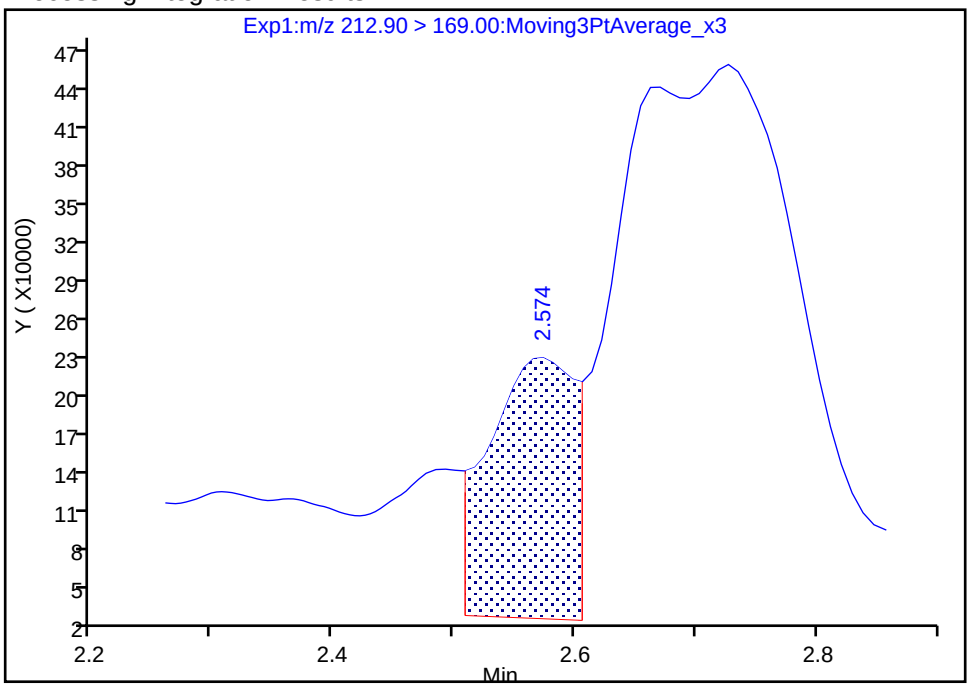
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

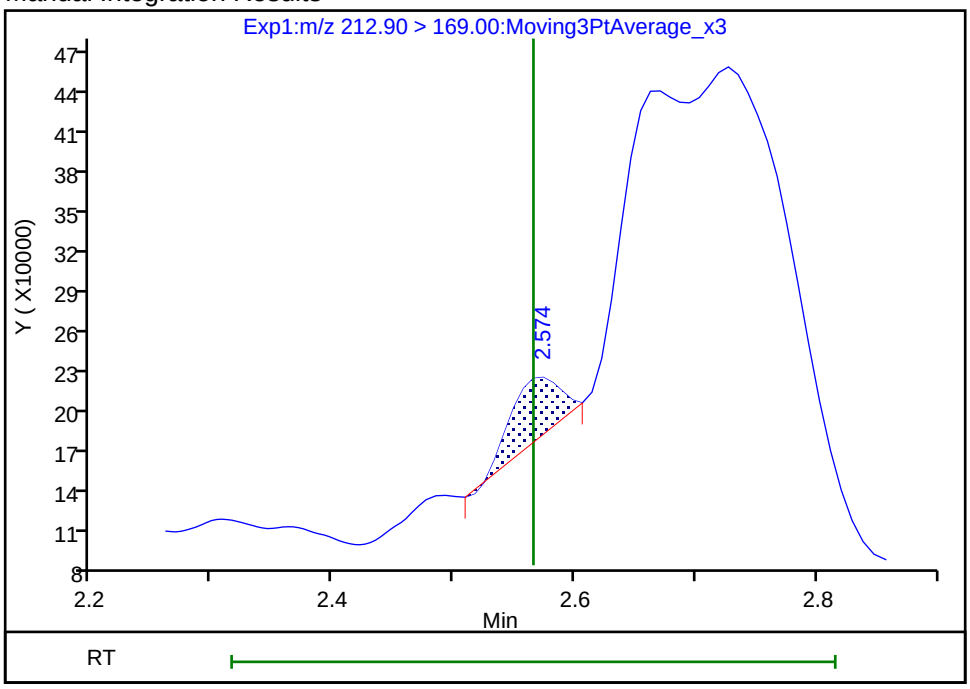
Processing Integration Results

RT: 2.57
Area: 997819
Amount: 0.415818
Amount Units: ng/ml



Manual Integration Results

RT: 2.57
Area: 127765
Amount: 0.053243
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:49:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

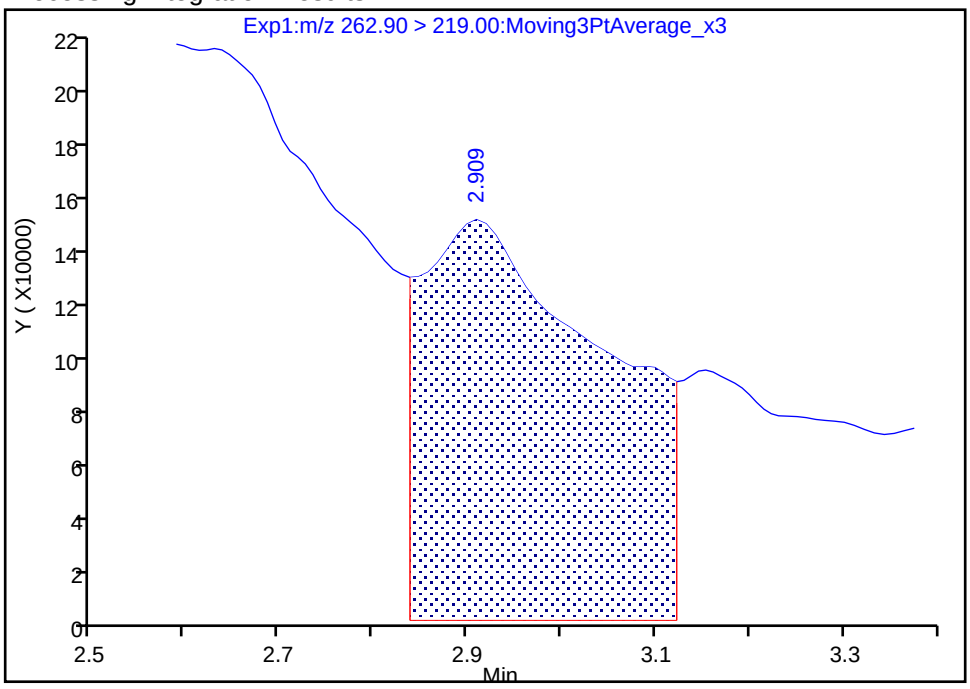
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

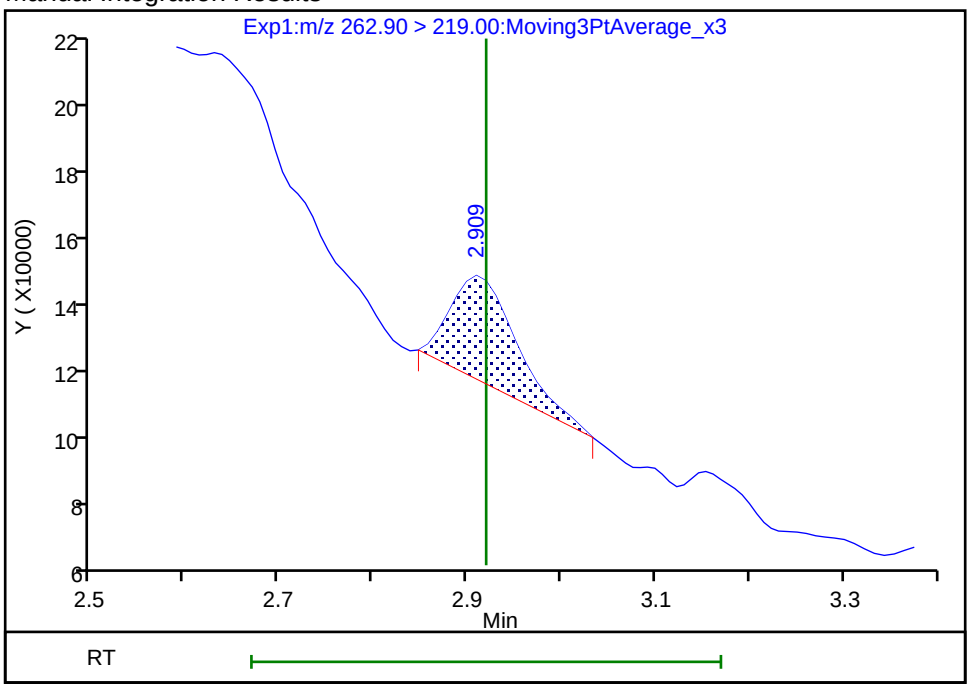
Processing Integration Results

RT: 2.91
Area: 2001157
Amount: 0.592012
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 144610
Amount: 0.042781
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:49:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

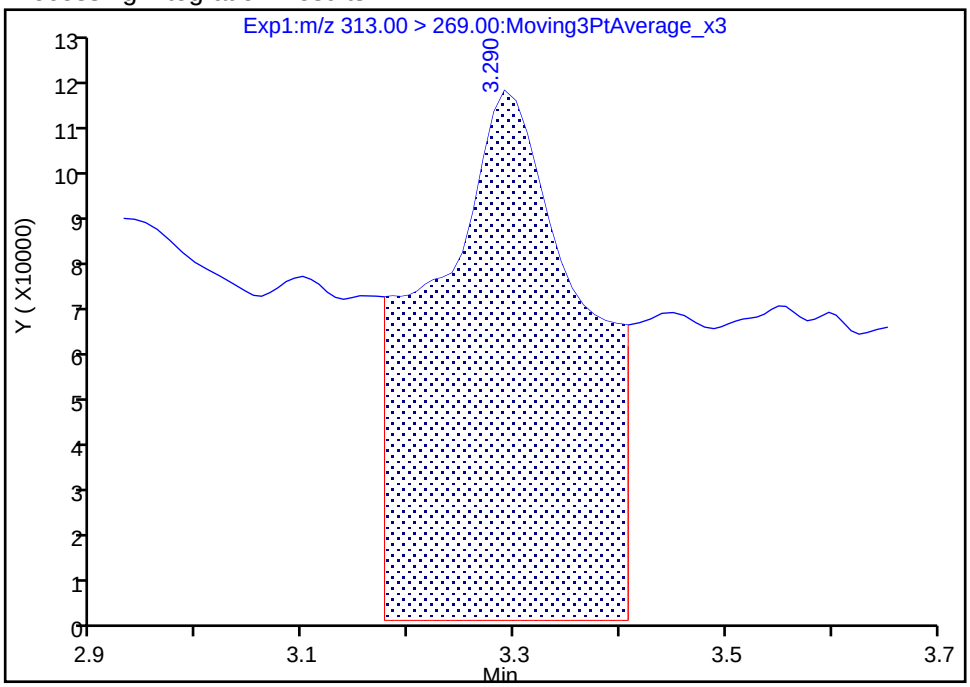
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

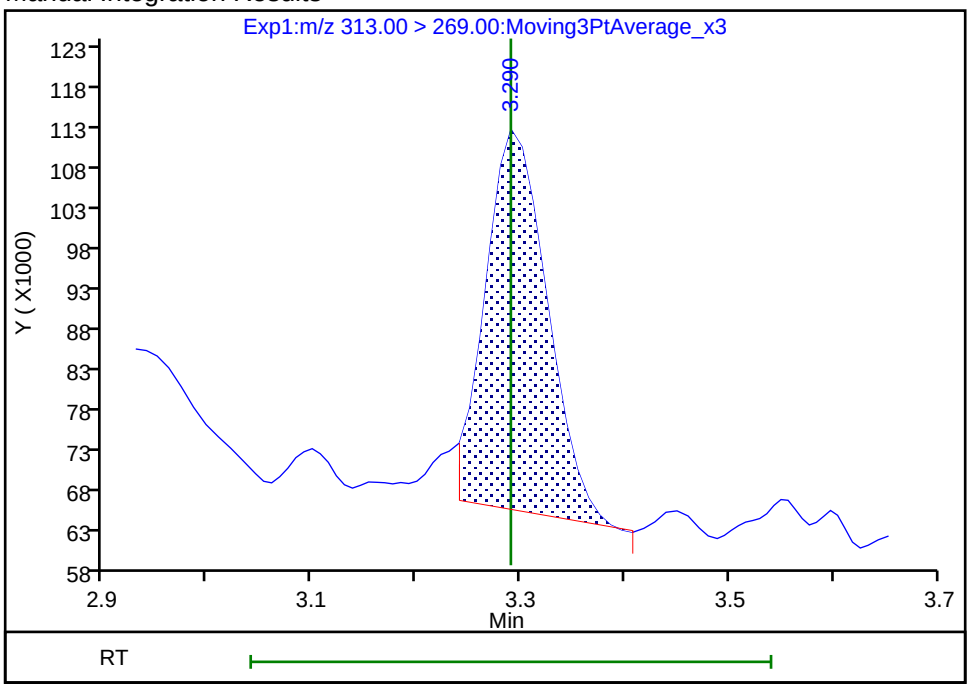
Processing Integration Results

RT: 3.29
Area: 1110591
Amount: 0.291123
Amount Units: ng/ml



Manual Integration Results

RT: 3.29
Area: 193041
Amount: 0.050602
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:50:49

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

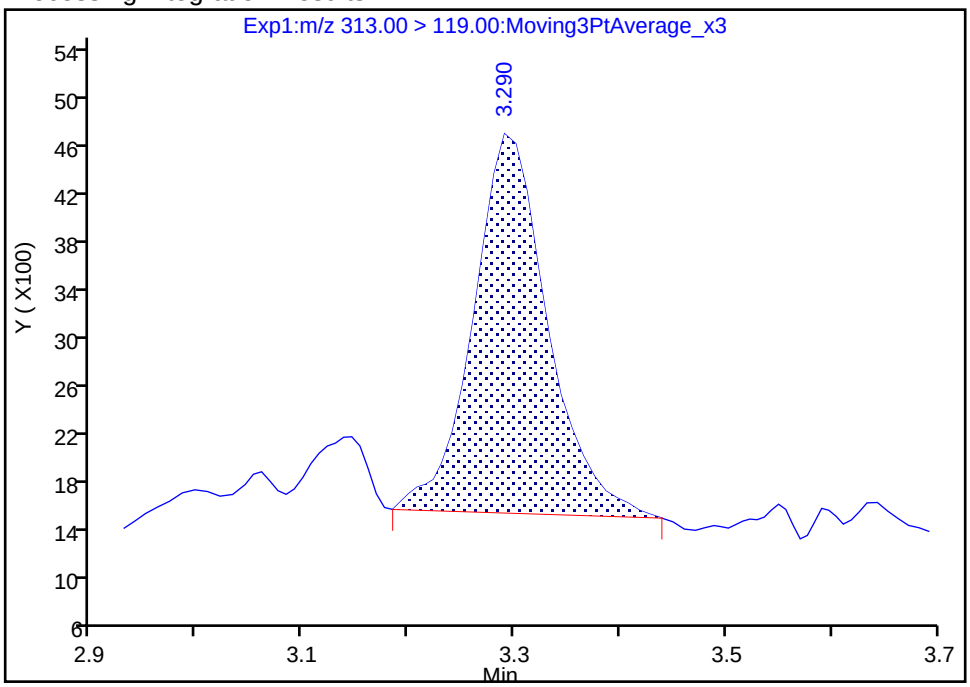
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

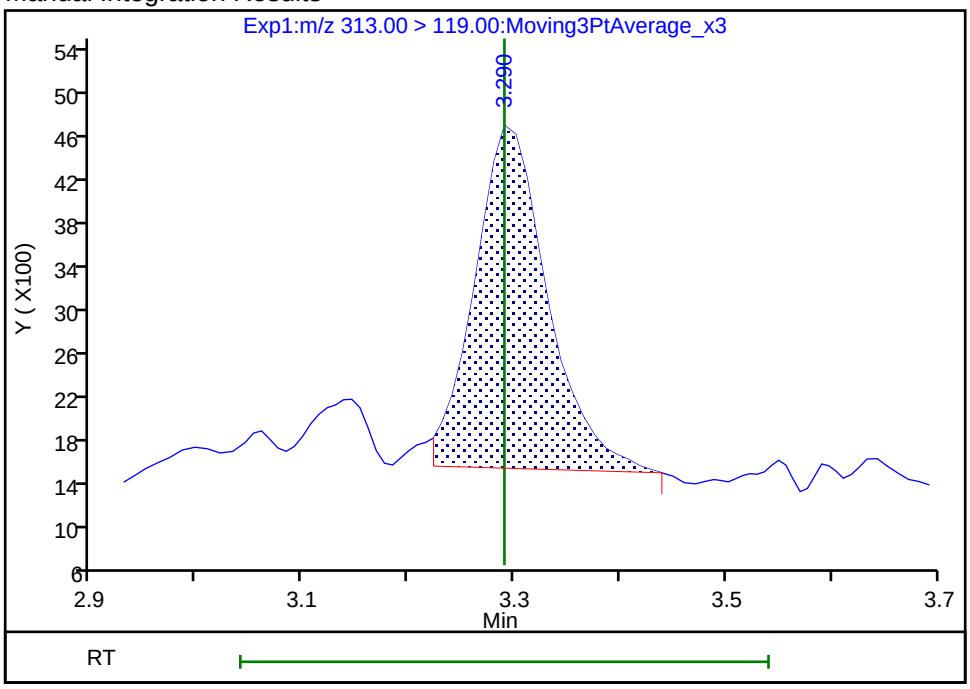
Processing Integration Results

RT: 3.29
Area: 15242
Amount: 0.291123
Amount Units: ng/ml



Manual Integration Results

RT: 3.29
Area: 14896
Amount: 0.050602
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:50:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

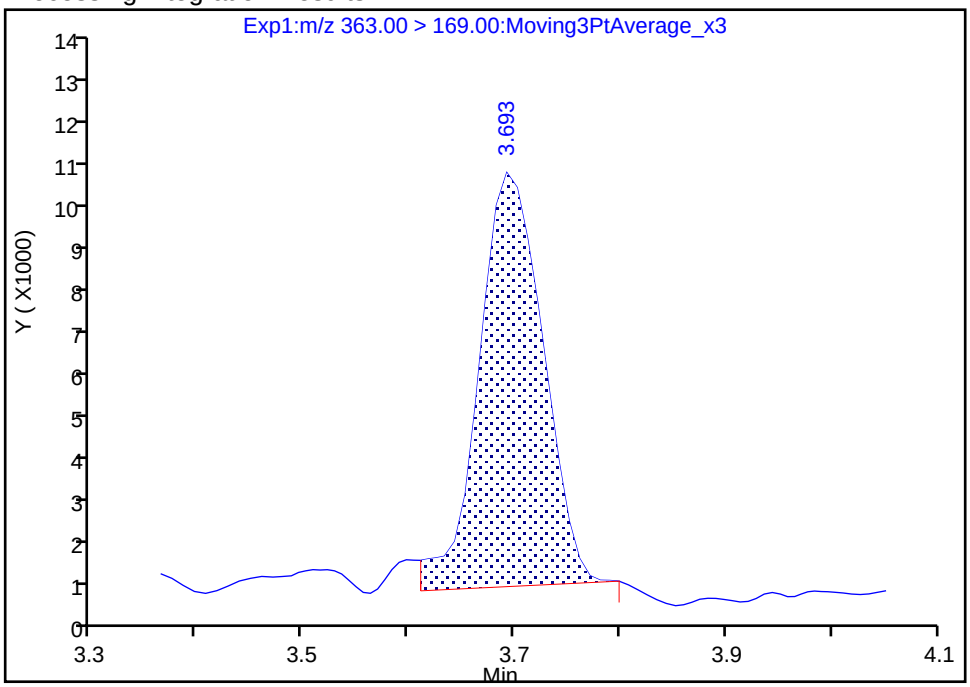
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

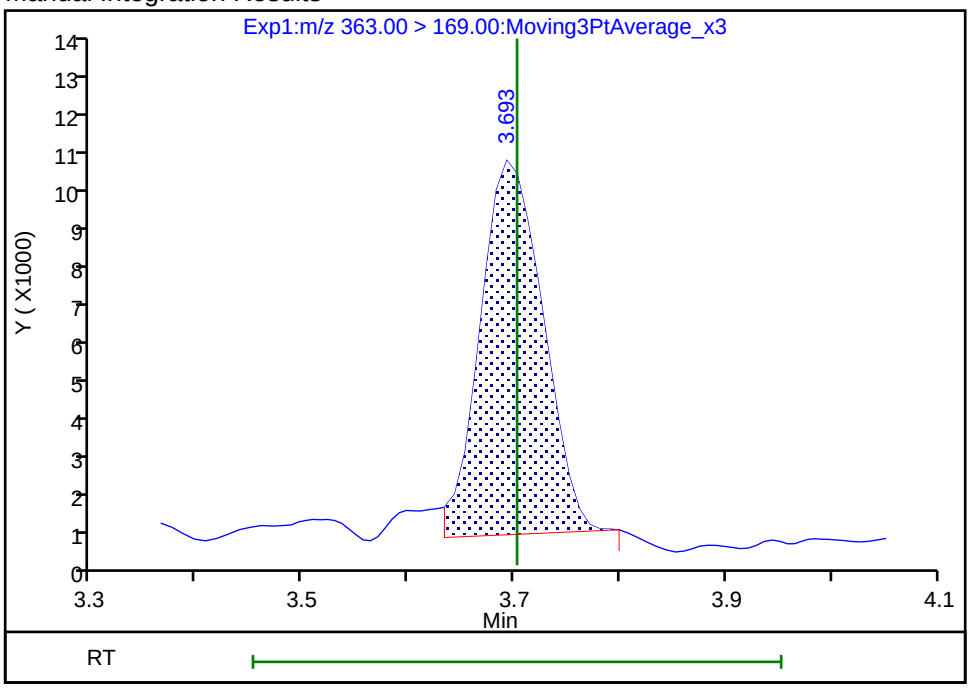
Processing Integration Results

RT: 3.69
Area: 40163
Amount: 0.058307
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 39157
Amount: 0.039232
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:51:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

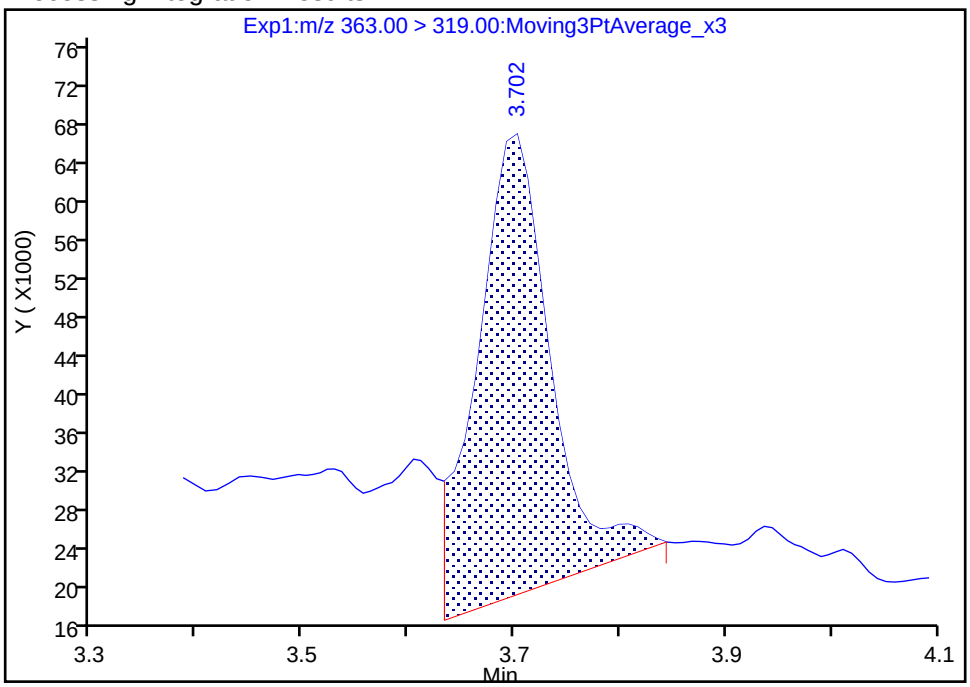
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

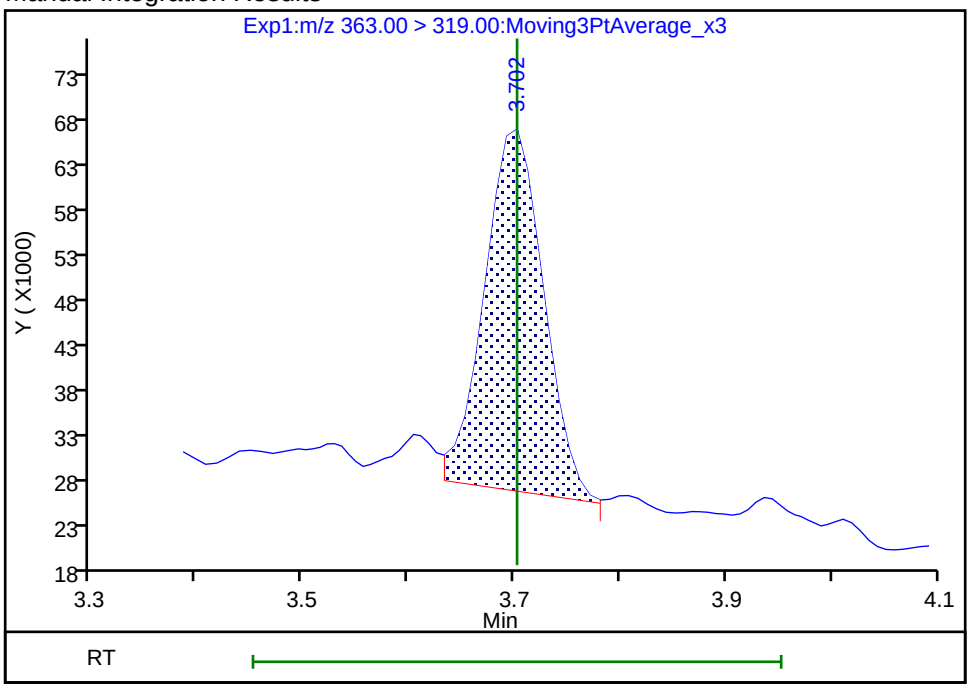
Processing Integration Results

RT: 3.70
Area: 228606
Amount: 0.058307
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 153818
Amount: 0.039232
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:51:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

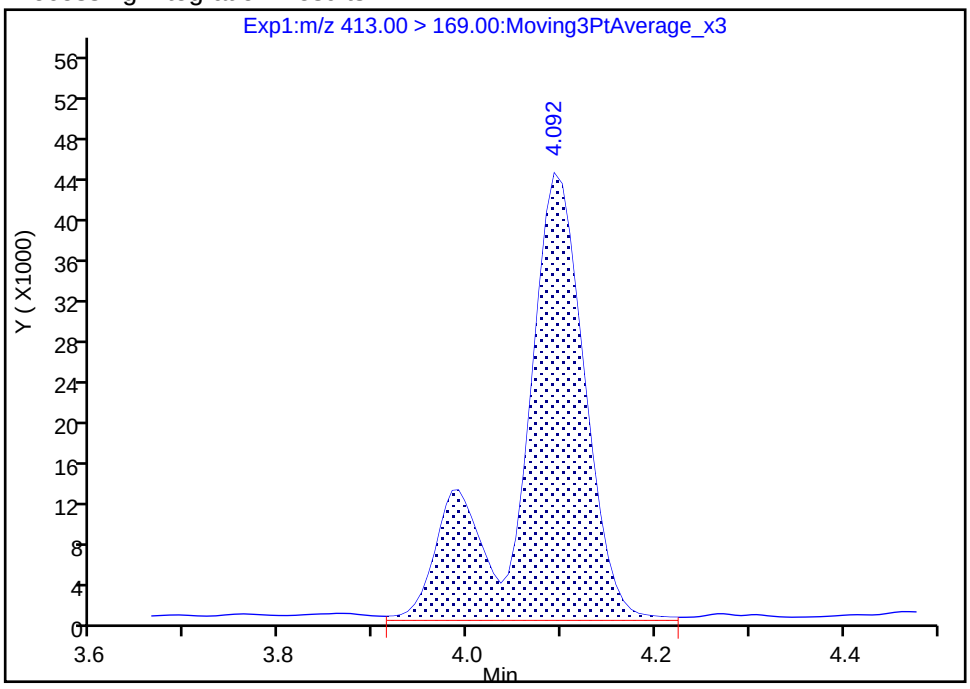
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

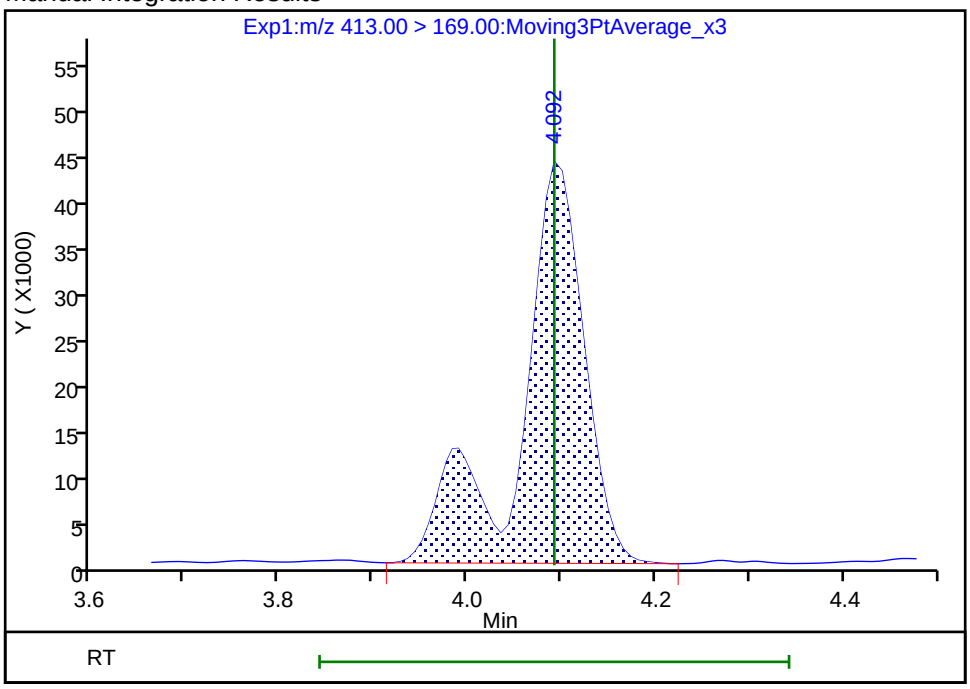
Processing Integration Results

RT: 4.09
Area: 214798
Amount: 0.279236
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 208282
Amount: 0.128618
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:52:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

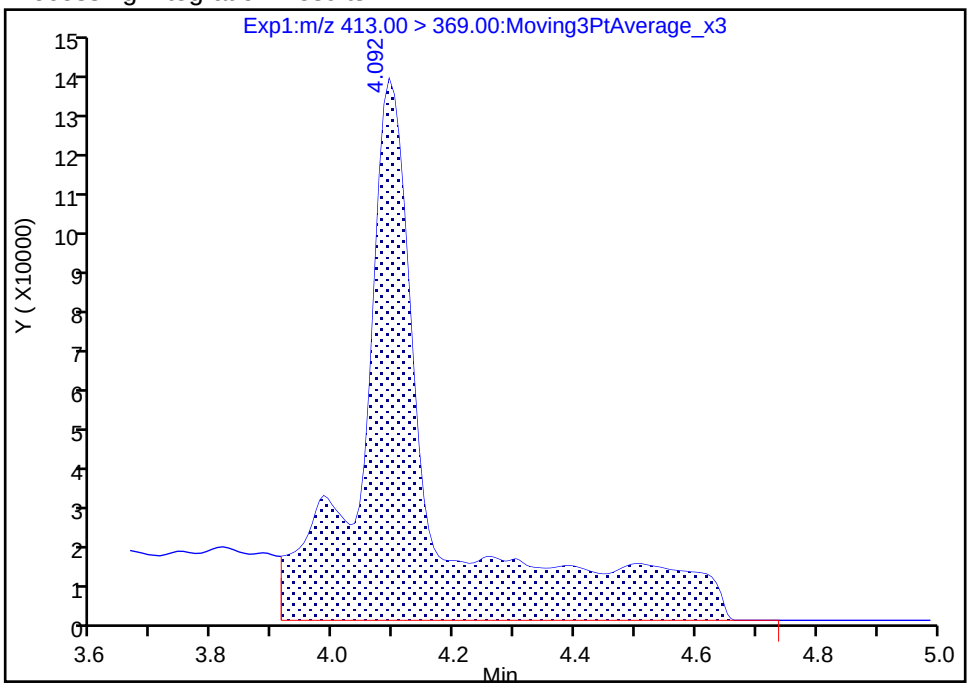
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

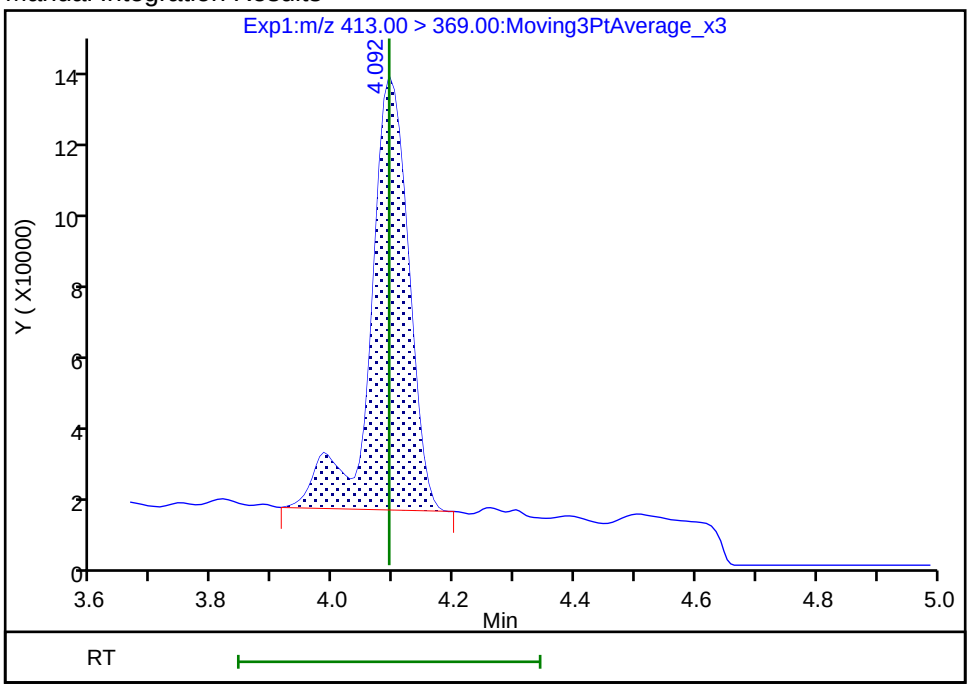
Processing Integration Results

RT: 4.09
Area: 1116971
Amount: 0.279236
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 514484
Amount: 0.128618
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:52:16
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

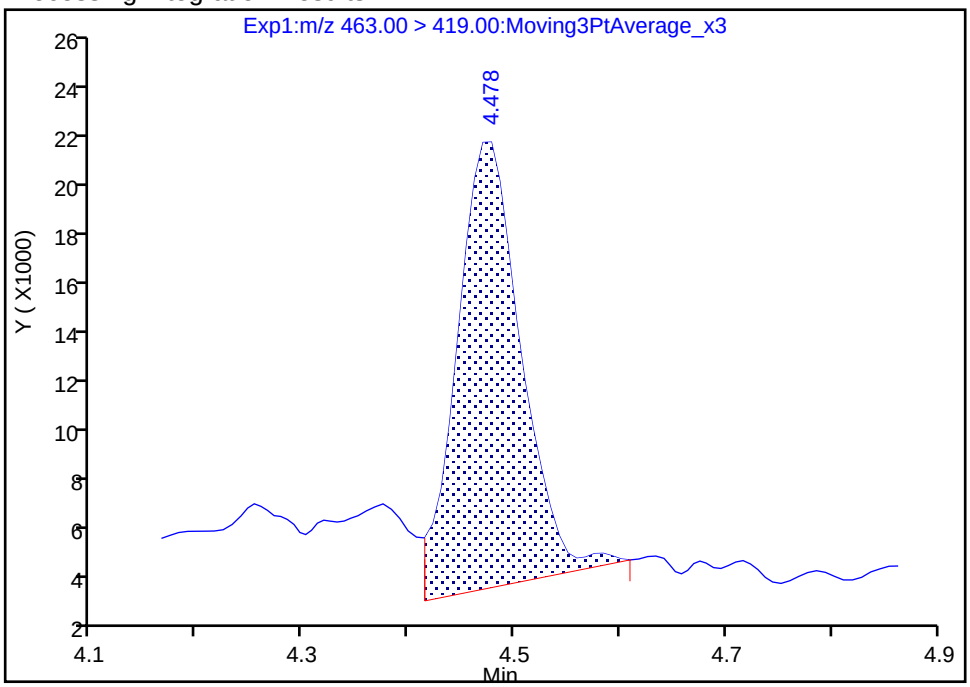
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

31 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

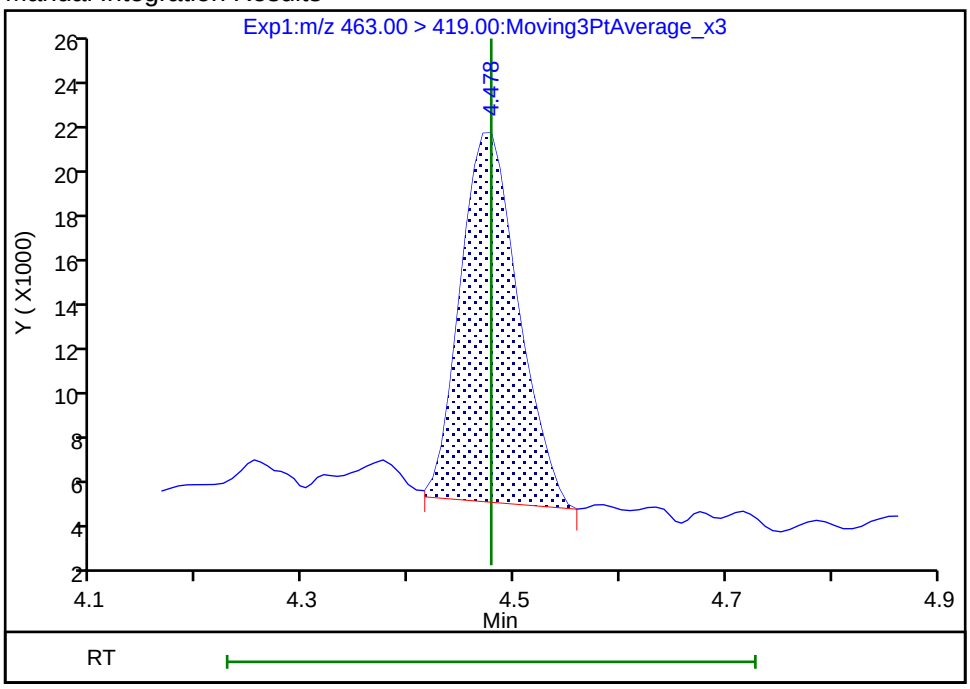
Processing Integration Results

RT: 4.48
Area: 72797
Amount: 0.022873
Amount Units: ng/ml



Manual Integration Results

RT: 4.48
Area: 60310
Amount: 0.018949
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:52:58
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

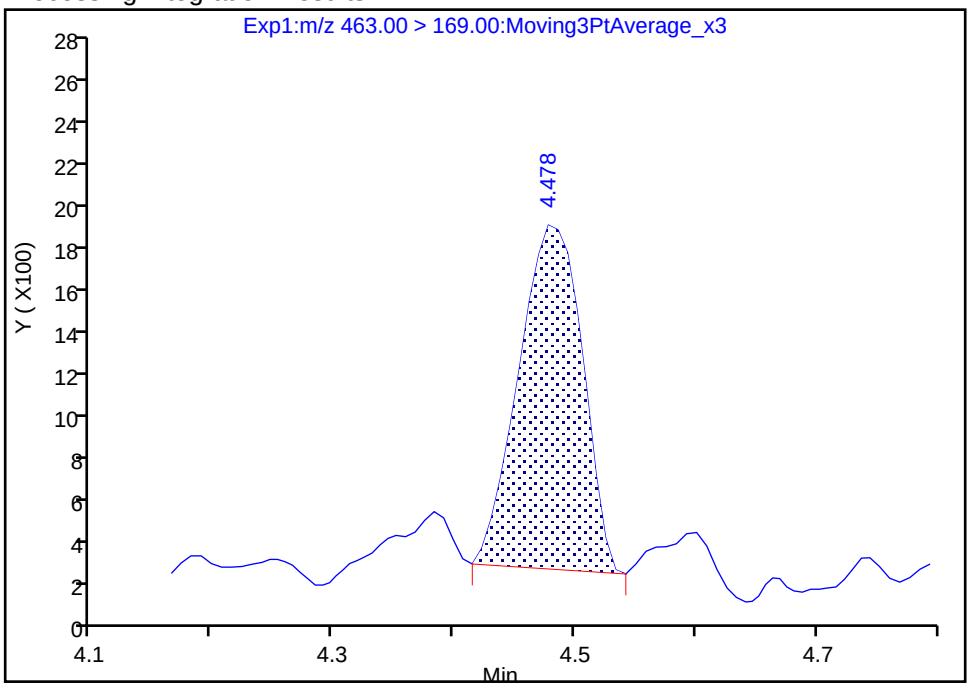
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

31 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

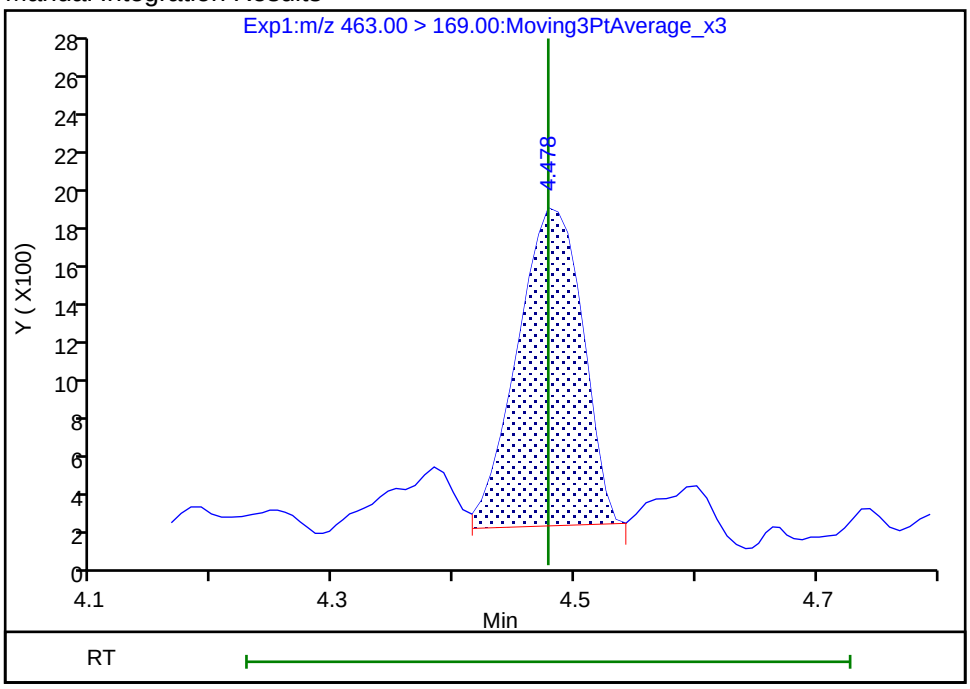
Processing Integration Results

RT: 4.48
Area: 6033
Amount: 0.022873
Amount Units: ng/ml



Manual Integration Results

RT: 4.48
Area: 6319
Amount: 0.018949
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:53:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

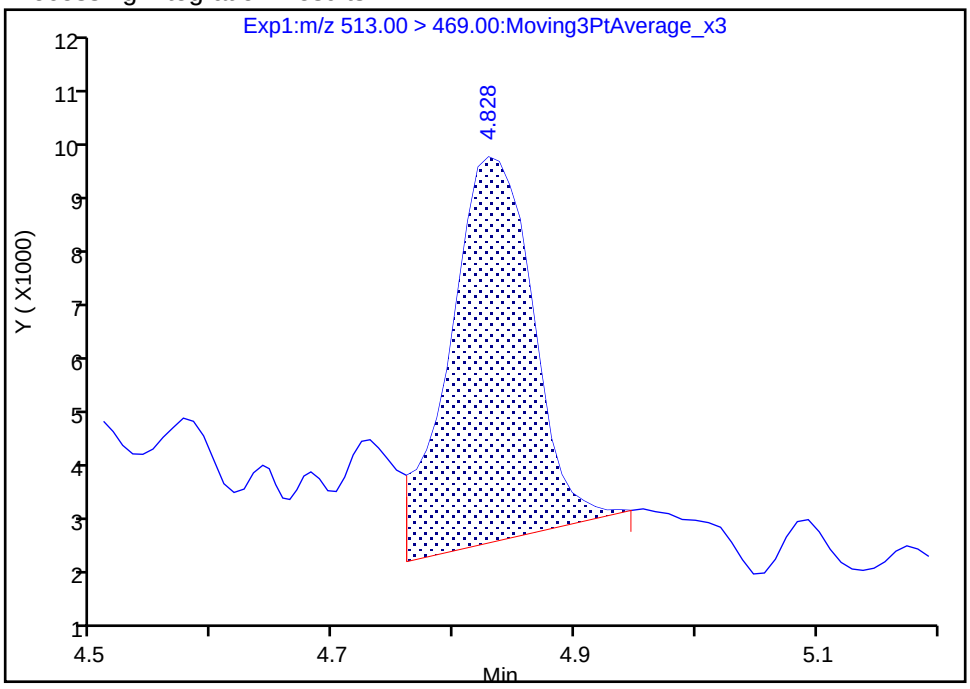
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

37 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

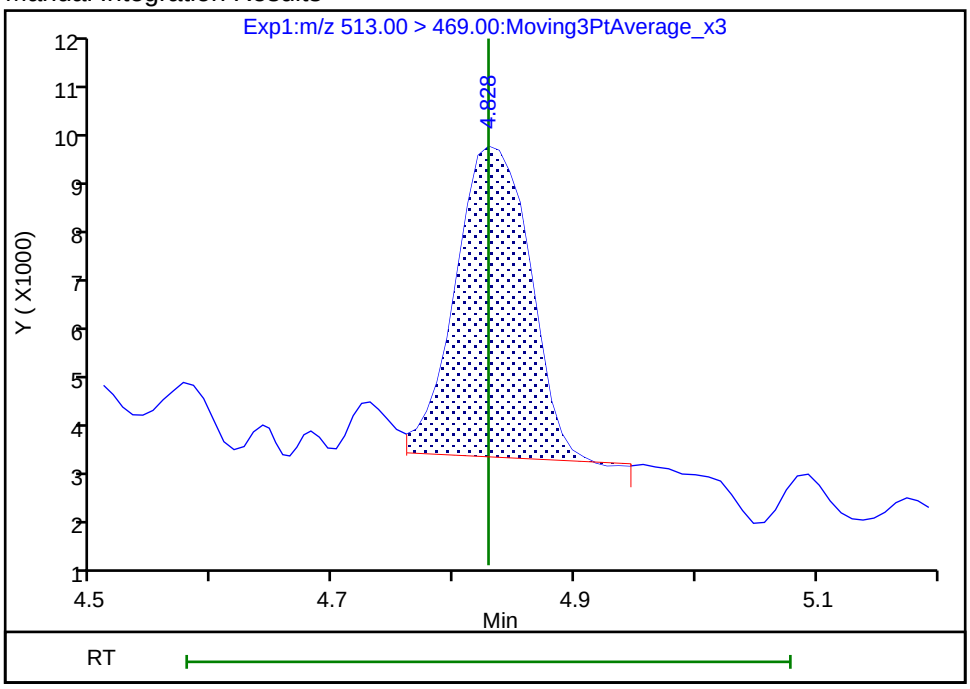
Processing Integration Results

RT: 4.83
Area: 32434
Amount: 0.011044
Amount Units: ng/ml



Manual Integration Results

RT: 4.83
Area: 25781
Amount: 0.008779
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:53:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

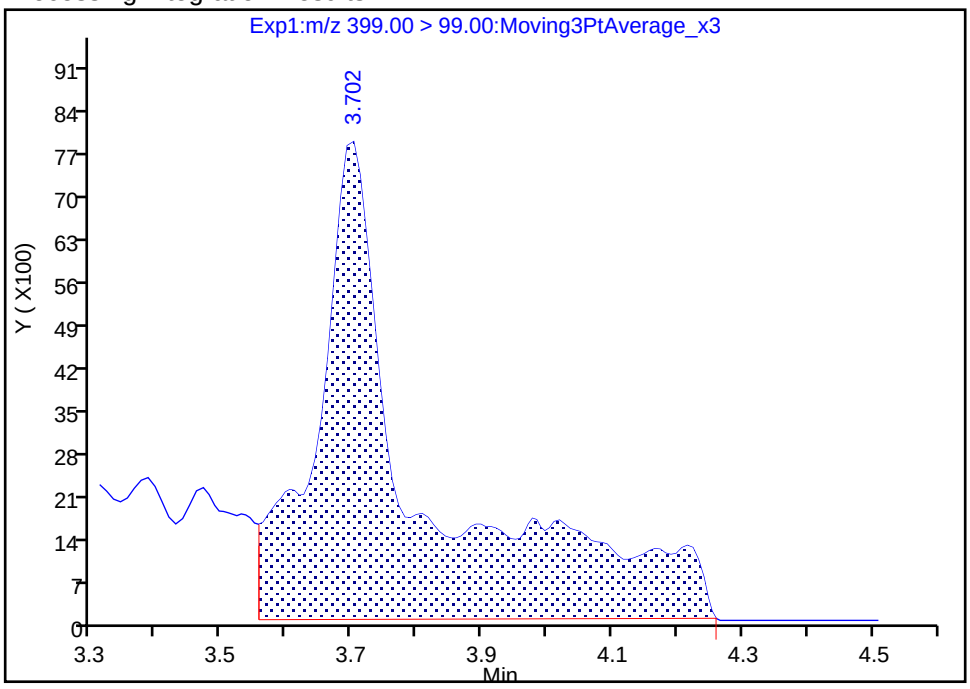
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

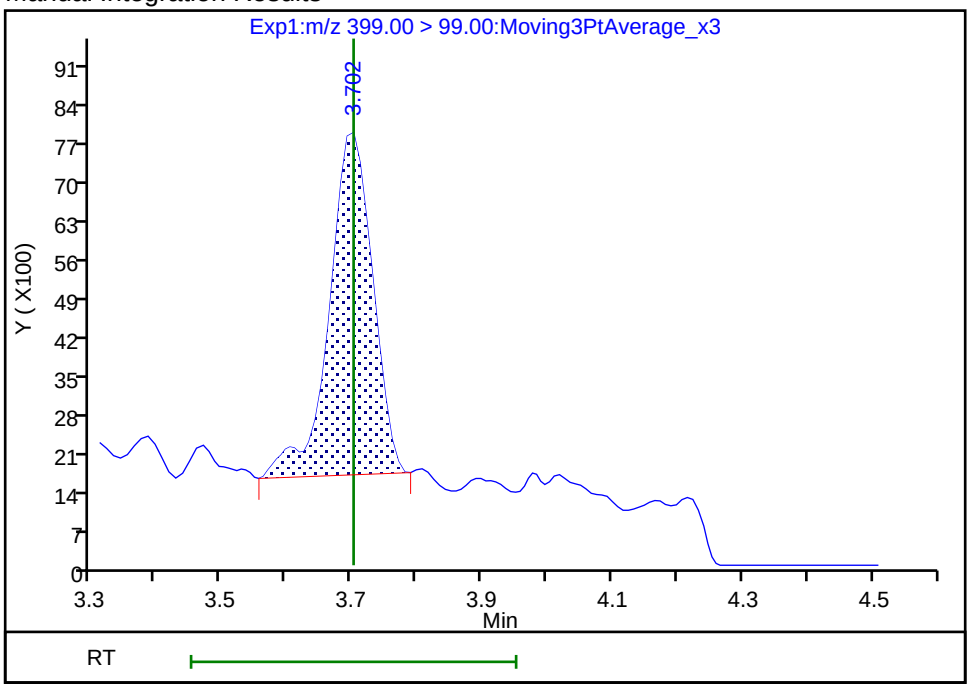
Processing Integration Results

RT: 3.70
Area: 87438
Amount: 0.189259
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 28686
Amount: 0.036656
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:51:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

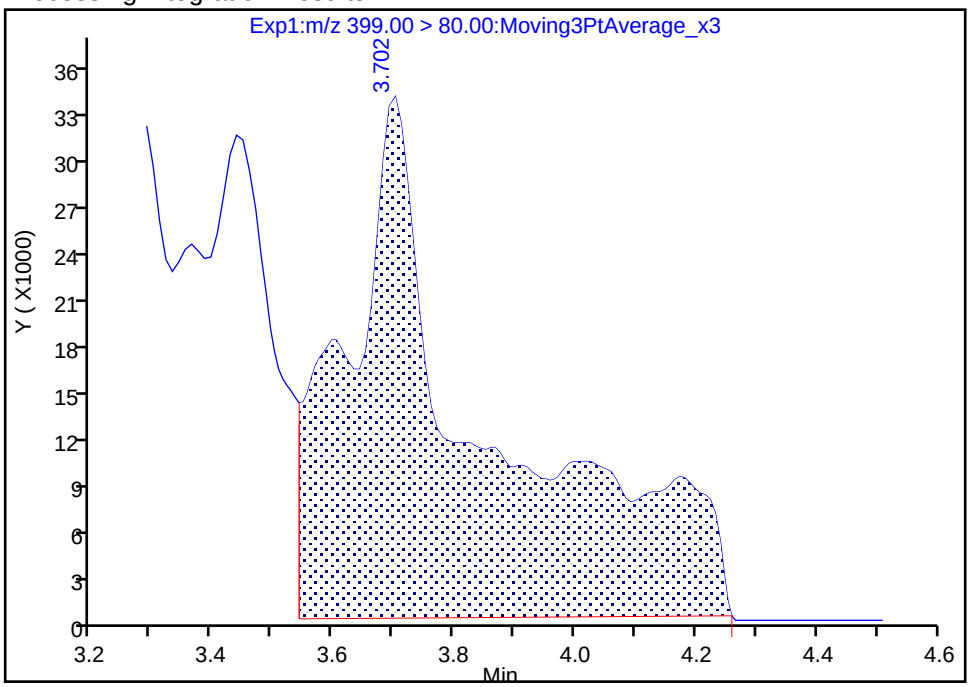
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00 mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

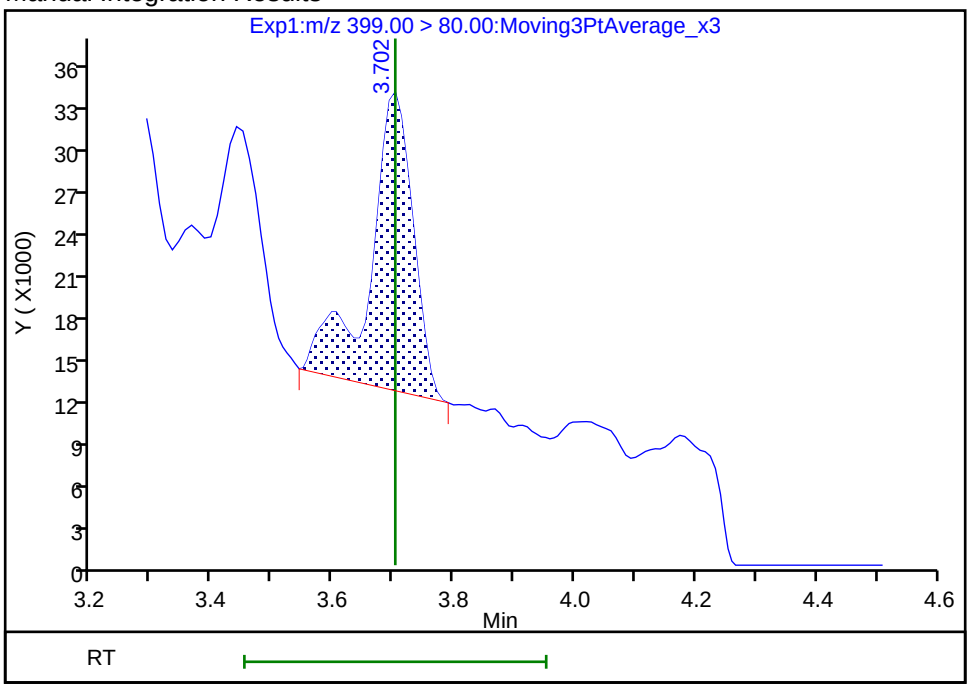
Processing Integration Results

RT: 3.70
Area: 549180
Amount: 0.189259
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 106366
Amount: 0.036656
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:51:56
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

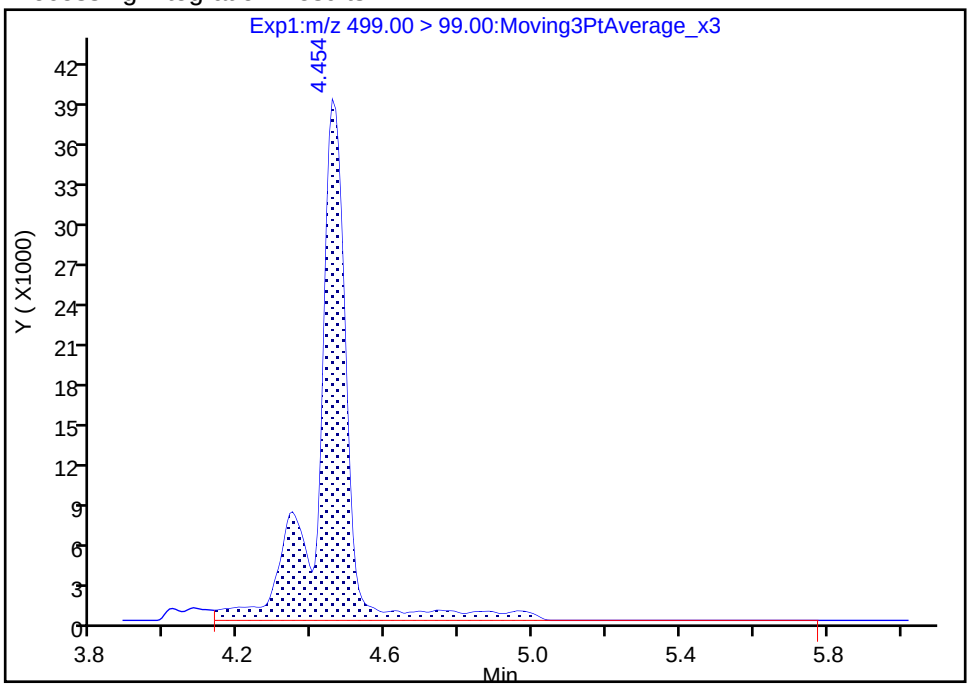
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

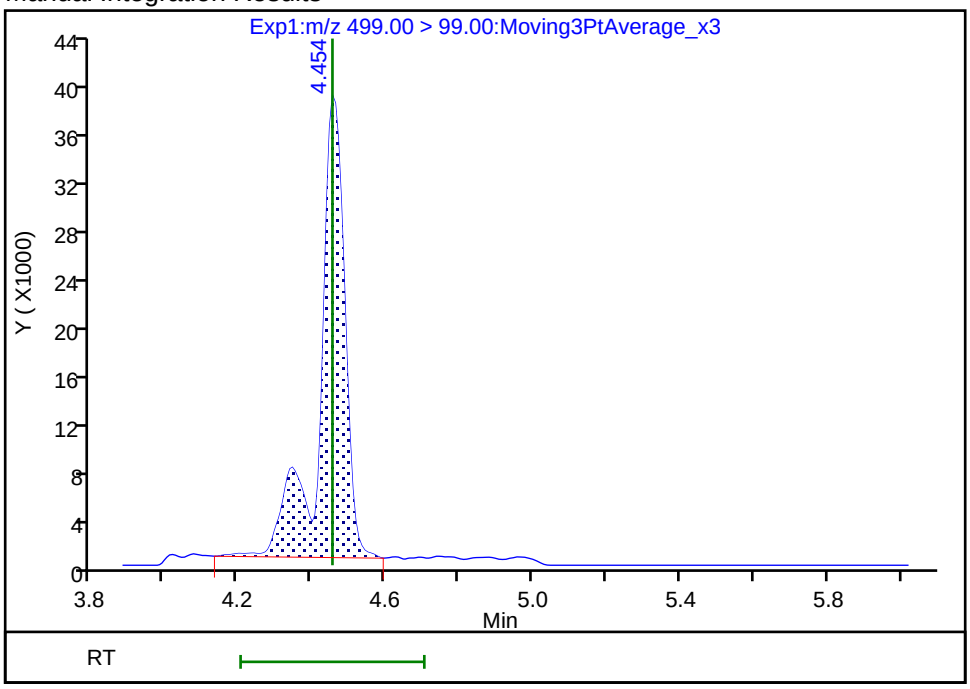
Processing Integration Results

RT: 4.45
Area: 215304
Amount: 0.694402
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 181621
Amount: 0.624815
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:52:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

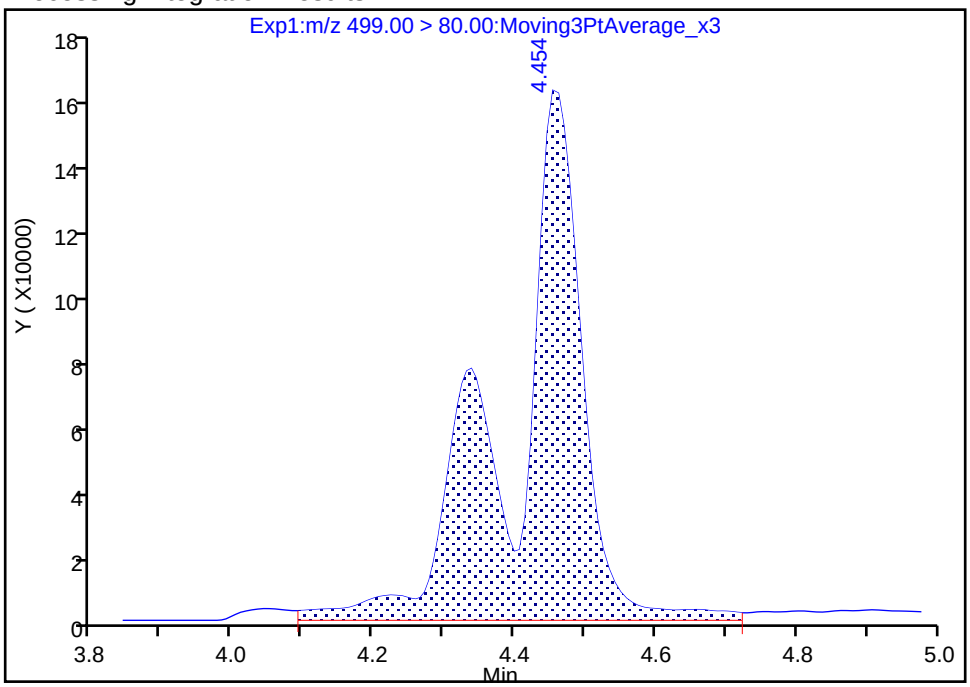
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

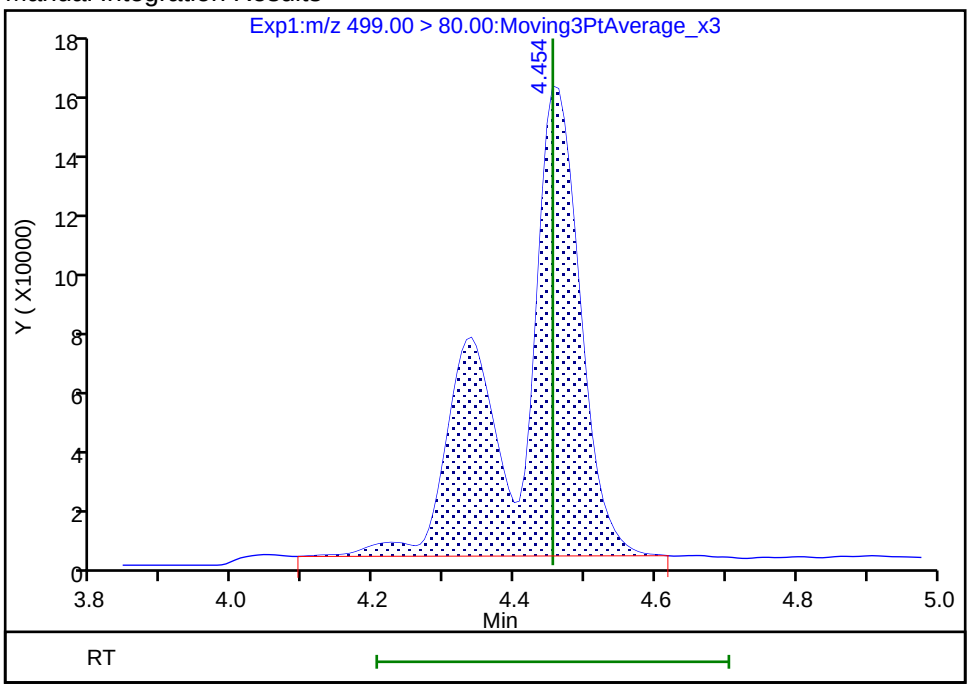
Processing Integration Results

RT: 4.45
Area: 1155632
Amount: 0.694402
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 1039823
Amount: 0.624815
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:52:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

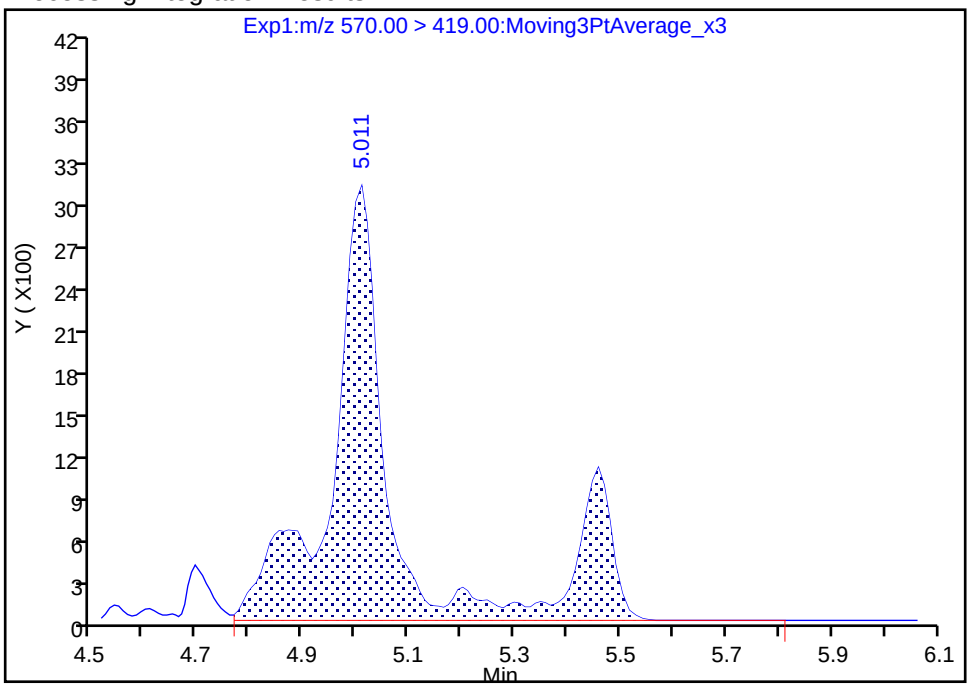
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_016.d				
Injection Date:	11-Sep-2020 12:41:50	Instrument ID:	A18		
Lims ID:	460-217547-E-1-A	Lab Sample ID:	320-217547-1		
Client ID:	MW-203				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

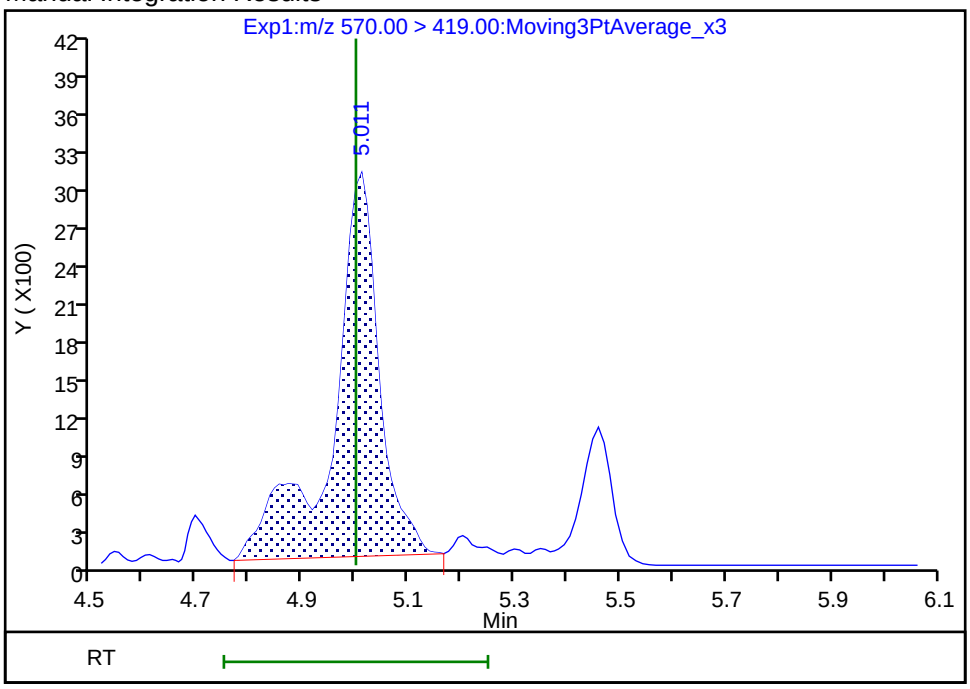
Processing Integration Results

RT: 5.01
Area: 26225
Amount: 0.019372
Amount Units: ng/ml



Manual Integration Results

RT: 5.01
Area: 18578
Amount: 0.013723
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:53:30

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-204 Lab Sample ID: 460-217547-2

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_017.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 11:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 255.7(mL) Date Analyzed: 09/11/2020 12:50

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.11	B	1.96	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.26	J	1.96	0.48
307-24-4	Perfluorohexanoic acid (PFHxA)	1.14	J	1.96	0.57
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.02	J	1.96	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	3.94		1.96	0.83
375-95-1	Perfluorononanoic acid (PFNA)	0.46	J	1.96	0.26
335-76-2	Perfluorodecanoic acid (PFDA)	0.30	U	1.96	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.08	U	1.96	1.08
307-55-1	Perfluorododecanoic acid (PFDoA)	0.54	U	1.96	0.54
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.27	U	1.96	1.27
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.96	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.64	J	1.96	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.08	J B	1.96	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.96	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	12.1		1.96	0.53
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.96	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.57	J B	1.96	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.03	U	19.6	3.03
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.86	U	19.6	1.86
27619-97-2	6:2 FTS	2.02	J	19.6	1.96
39108-34-4	8:2 FTS	1.96	U	19.6	1.96

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-204 Lab Sample ID: 460-217547-2

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_017.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 11:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 255.7(mL) Date Analyzed: 09/11/2020 12:50

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	39		25-150
STL01893	13C5 PFPeA	54		25-150
STL00993	13C2 PFHxA	63		25-150
STL01892	13C4 PFHpA	66		25-150
STL00990	13C4 PFOA	66		25-150
STL00995	13C5 PFNA	70		25-150
STL00996	13C2 PFDA	70		25-150
STL00997	13C2 PFUnA	69		25-150
STL00998	13C2 PFDoA	70		25-150
STL02116	13C2 PFTeDA	58		25-150
STL02337	13C3 PFBS	91		25-150
STL00994	18O2 PFHxS	90		25-150
STL00991	13C4 PFOS	87		25-150
STL01056	13C8 FOSA	66		25-150
STL02118	d3-NMeFOSAA	56		25-150
STL02117	d5-NEtFOSAA	67		25-150
STL02279	M2-6:2 FTS	143		25-150
STL02280	M2-8:2 FTS	113		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d
Lims ID: 460-217547-E-2-A
Client ID: MW-204
Sample Type: Client
Inject. Date: 11-Sep-2020 12:50:59 ALS Bottle#: 8 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-e-2-a
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 09:57:30 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 09:57:30
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.557	2.566	-0.009	0.626	7622919	0.9855		39.4	4581	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.557	2.566	-0.009	1.000	210714	0.0796			2.4	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.909	2.909	0.0	0.713	8159501	1.36		54.2	1717	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.909	2.920	-0.011	1.000	105104	0.0323			0.4	M
D 9 13C3 PFBS										
301.90 > 80.00	2.940	2.951	-0.011	0.720	9945943	2.11		90.5	520	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.940	2.951	-0.011	1.000	71084	0.0165	Target=2.37		1.1	M
298.90 > 99.00	2.940	2.951	-0.011	1.000	21403		3.32(1.19-3.56)		1.3	
D 11 13C2 PFHxA										
315.00 > 270.00	3.288	3.290	-0.002	0.805	9433784	1.57		62.8	4456	
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.278	3.290	-0.012	0.997	106270	0.0292	Target=13.16		0.7	M
313.00 > 119.00	3.278	3.290	-0.012	0.997	8852		12.01(6.58-19.74)		2.2	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.691	3.702	-0.011	0.904	5303385	2.12		89.8	6383	
D 18 13C4 PFHpA										
367.00 > 322.00	3.691	3.702	-0.011	0.904	8405070	1.64		65.6	3961	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.681	3.702	-0.021	0.997	88935	0.0261	Target=3.69		1.5	M
363.00 > 169.00	3.691	3.702	-0.011	1.000	28595		3.11(1.85-5.54)		12.9	M
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.691	3.702	-0.011	1.000	73455	0.0277	Target=3.35		2.6	M
399.00 > 99.00	3.691	3.702	-0.011	1.000	17568		4.18(1.67-5.02)		3.7	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.066	4.068	-0.002	0.996	3234647	3.39		143	440	
21 6:2 FTS										
427.00 > 407.00	4.066	4.068	-0.002	1.000	161783	0.0517			172	
D 25 13C4 PFOA										
417.00 > 372.00	4.082	4.092	-0.010	1.000	8073169	1.65		66.1	4935	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.082	4.092	-0.010	1.000	332174	0.1008	Target=2.91		8.0	M
413.00 > 169.00	4.082	4.092	-0.010	1.000	129831		2.56(1.45-4.36)		62.0	M
* 23 13C2 PFOA										
415.00 > 370.00	4.082	4.092	-0.010		12198246	2.50			5477	
D 27 13C4 PFOS										
503.00 > 80.00	4.446	4.454	-0.008	1.089	3513557	2.08		86.9	543	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.446	4.454	-0.008	1.000	470556	0.3092	Target=4.72		43.6	M
499.00 > 99.00	4.446	4.454	-0.008	1.000	83967		5.60(2.36-7.07)		37.6	M
D 30 13C5 PFNA										
468.00 > 423.00	4.462	4.470	-0.008	1.093	6928553	1.76		70.4	4601	
31 Perfluorononanoic acid										M
463.00 > 419.00	4.462	4.478	-0.016	1.000	31461	0.0118	Target=8.08		1.8	M
463.00 > 169.00	4.454	4.478	-0.024	0.998	4334		7.26(4.04-12.12)		6.5	M
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.172	4497619	1.65		66.0	6018	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.000	24351	0.0145			10.9	
D 39 13C2 PFDA										
515.00 > 470.00	4.820	4.828	-0.008	1.181	6658663	1.74		69.7	6260	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.820	4.828	-0.008	1.181	3725335	2.70		113	932	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.820	4.828	-0.008	1.000	15509	0.006041	Target=10.81		1.8	
513.00 > 169.00	4.828	4.828	0.0	1.002	1264		12.27(5.40-16.21)		2.1	
36 8:2 FTS										
527.00 > 507.00	4.846	4.828	0.018	1.005	1620	0.000587			12.6	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.977	5.000	-0.023	1.219	3619255	1.41		56.5	2392	
41 NMeFOSAA										M
570.00 > 419.00	4.977	5.000	-0.023	1.000	7312	0.006810			6.5	M
D 43 13C2 PFUnA										
565.00 > 520.00	5.138	5.157	-0.019	1.259	6558345	1.73		69.3	7471	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.147	5.157	-0.010	1.261	4551165	1.68		67.2	2933	
46 NEtFOSA										M
584.00 > 419.00	5.157	5.166	-0.010	1.002	11565	0.009400			31.2	M
D 56 13C2 PFDoA										
615.00 > 570.00	5.437	5.448	-0.011	1.332	6515498	1.75		69.8	7642	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 61 13C2 PFTeDA										
715.00 > 670.00	5.948	5.959	-0.011	1.457	4470320	1.45		58.1	5122	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 14-Sep-2020 09:57:30 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d

Injection Date: 11-Sep-2020 12:50:59 Instrument ID: A18

Lims ID: 460-217547-E-2-A Lab Sample ID: 320-217547-2

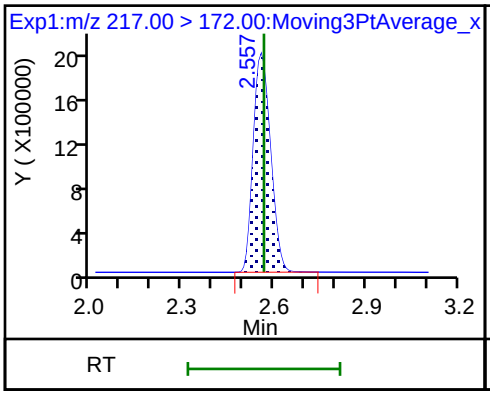
Client ID: MW-204

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 8 Worklist Smp#: 3

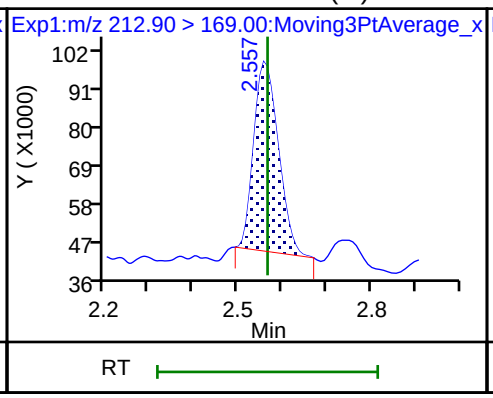
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

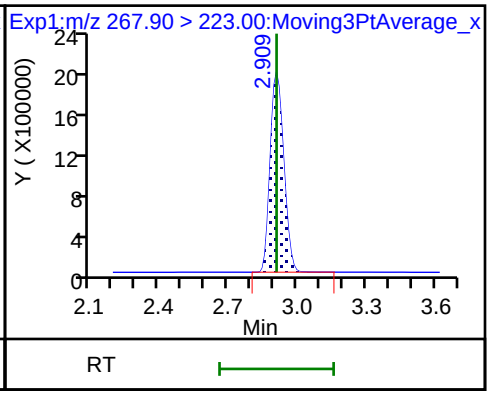
D 1 13C4 PFBA



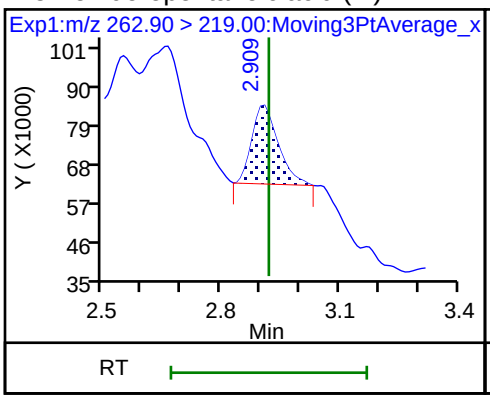
2 Perfluorobutanoic acid (M)



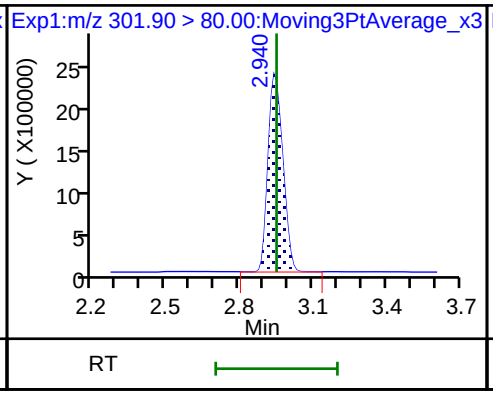
D 4 13C5 PFPeA



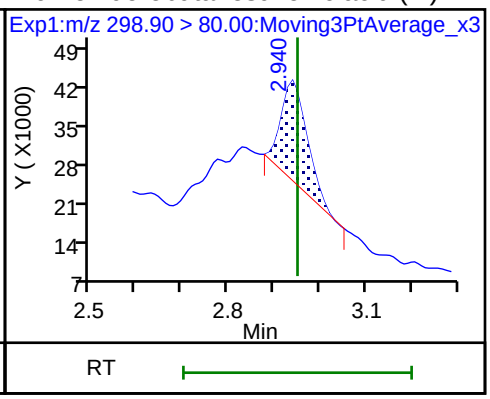
5 Perfluoropentanoic acid (M)



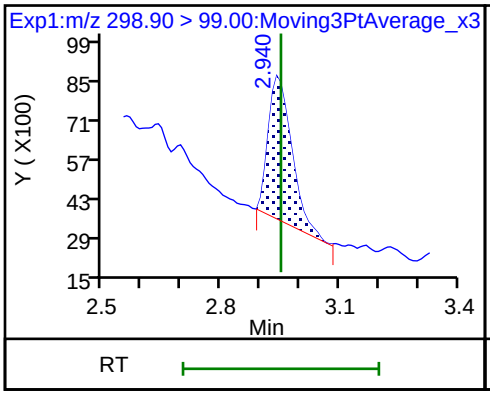
D 9 13C3 PFBS



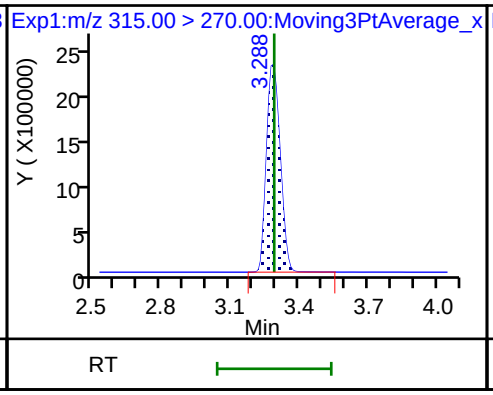
6 Perfluorobutanesulfonic acid (M)



6 Perfluorobutanesulfonic acid



D 11 13C2 PFHxA



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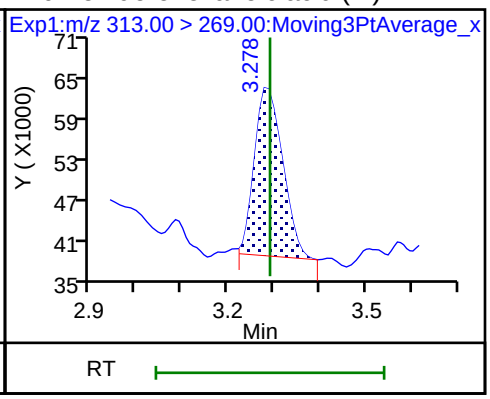

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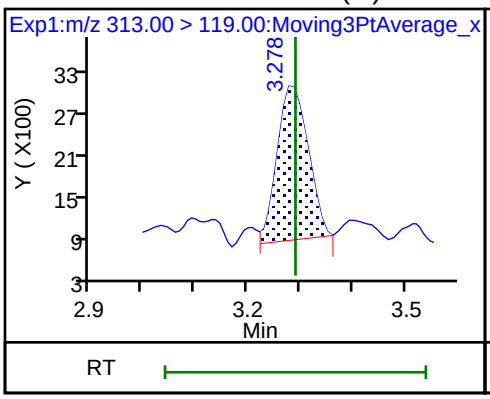
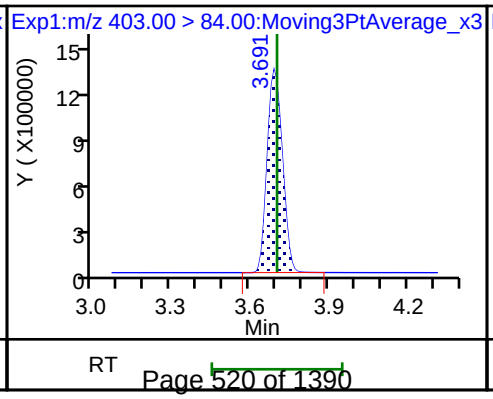


D 17 18O2 PFHxS



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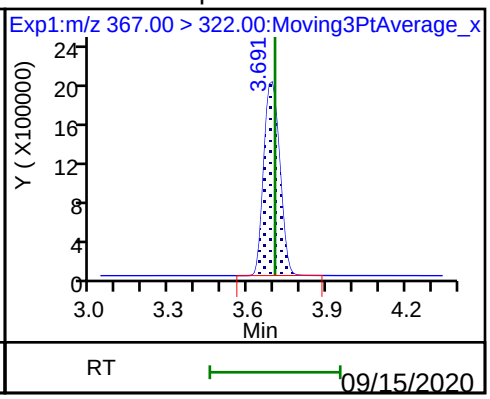
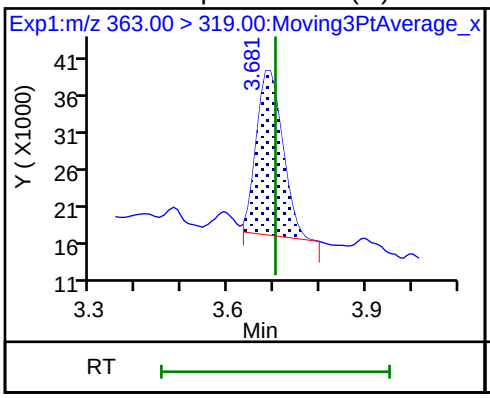
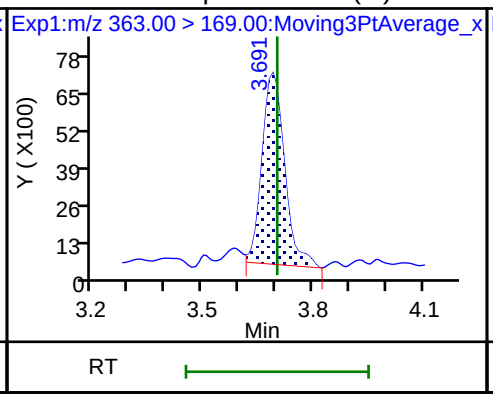


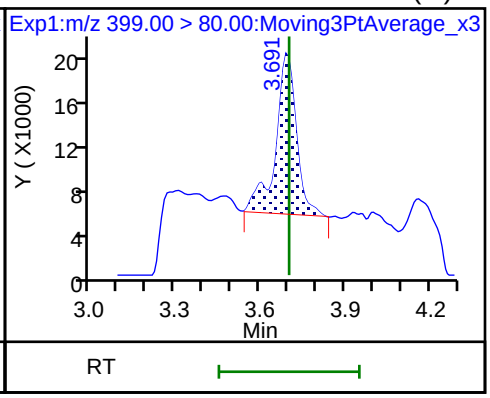
16 Perfluoroheptanoic acid (M)



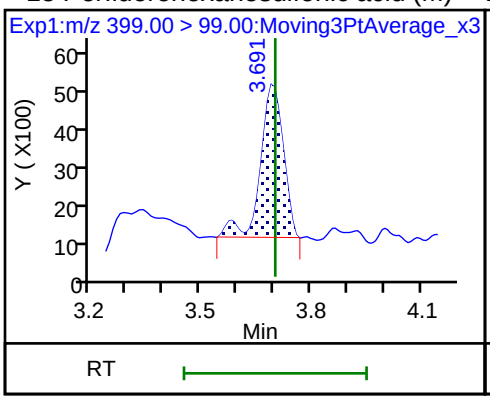
16 Perfluoroheptanoic acid (M)



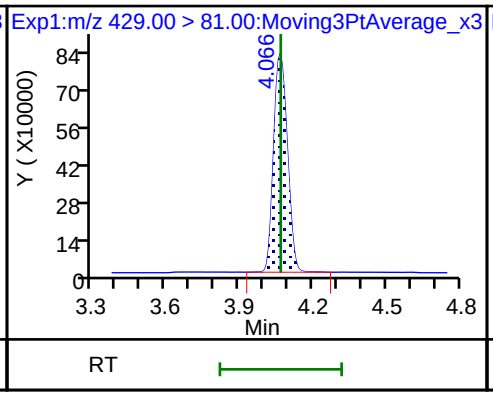
15 Perfluorohexanesulfonic acid (M)



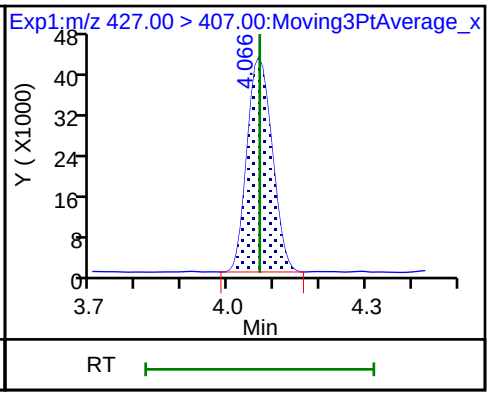
15 Perfluorohexanesulfonic acid (M)



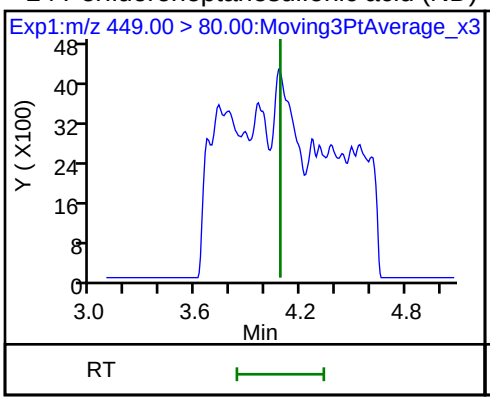
D 20 M2-6:2 FTS



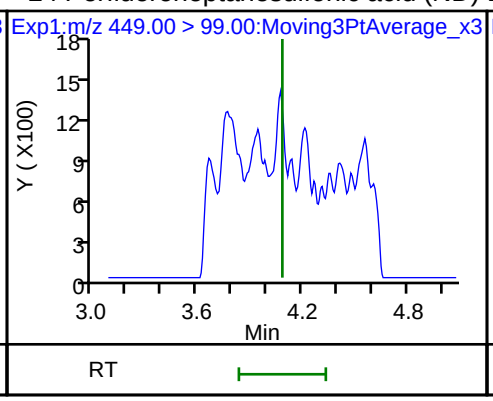
21 6:2 FTS

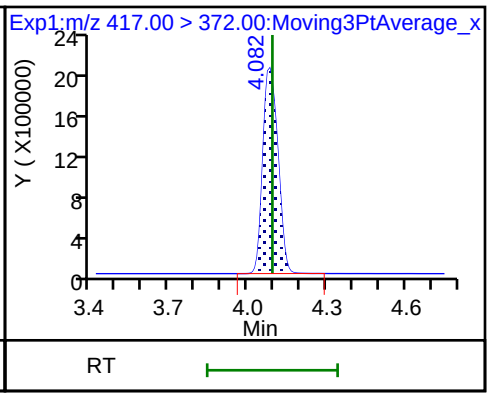


24 Perfluoroheptanesulfonic acid (ND)

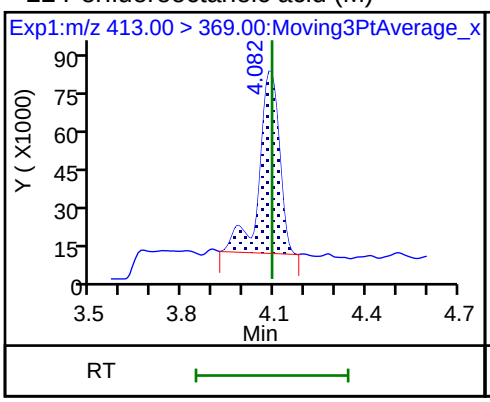


24 Perfluoroheptanesulfonic acid (ND) D 25 13C4 PFOA

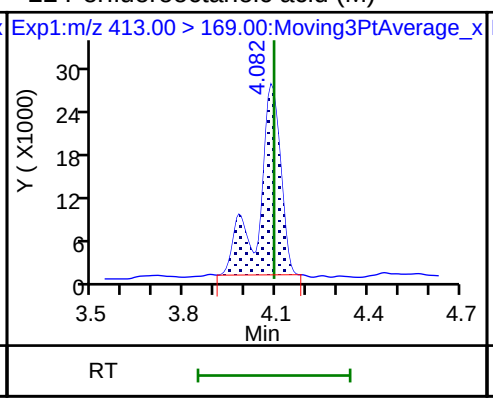




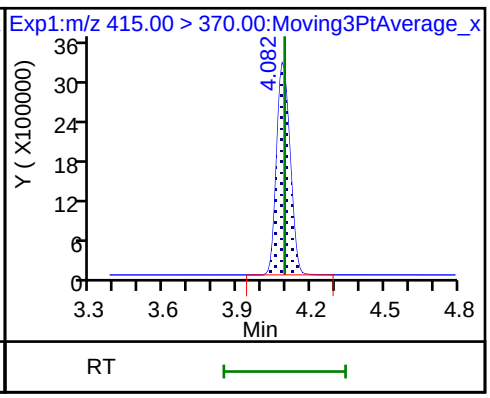
22 Perfluorooctanoic acid (M)



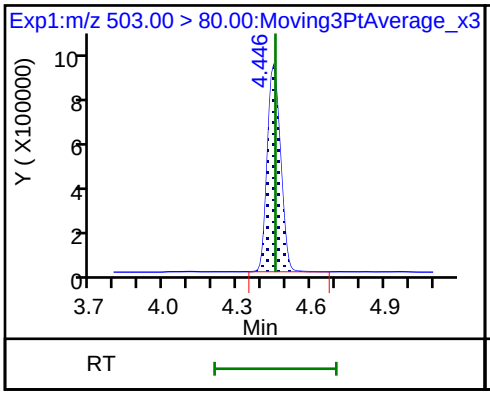
22 Perfluorooctanoic acid (M)



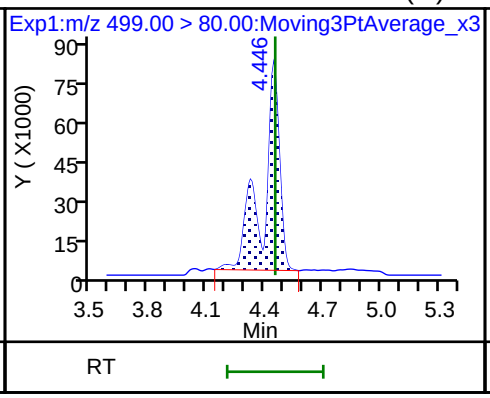
* 23 13C2 PFOA



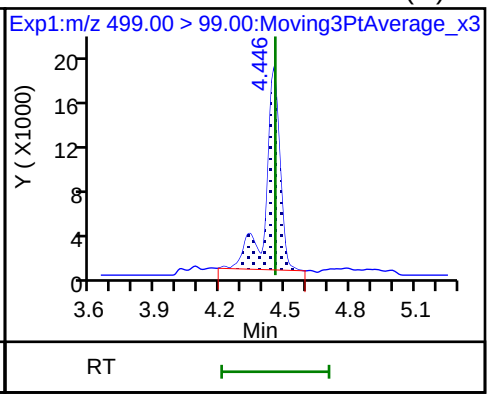
D 27 13C4 PFOS



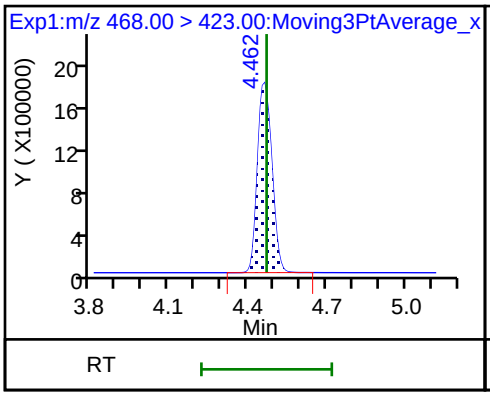
29 Perfluorooctanesulfonic acid (M)



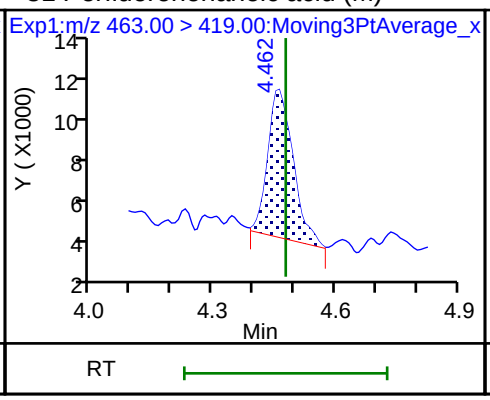
29 Perfluorooctanesulfonic acid (M)



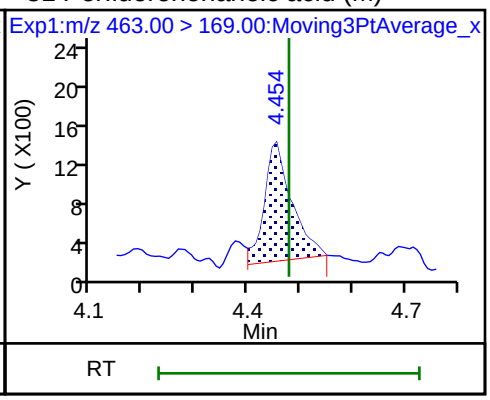
D 30 13C5 PFNA



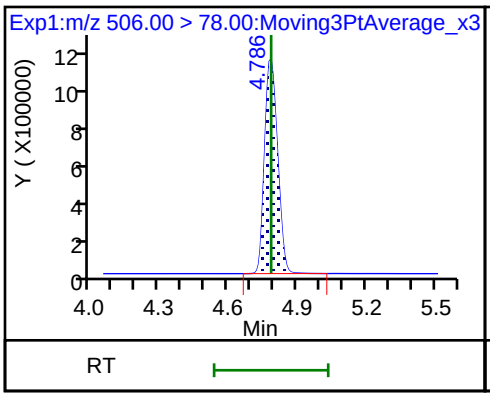
31 Perfluorononanoic acid (M)



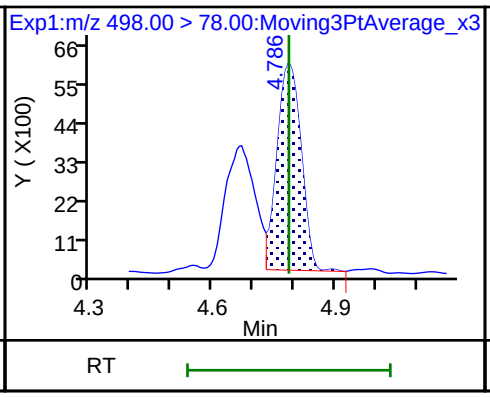
31 Perfluorononanoic acid (M)



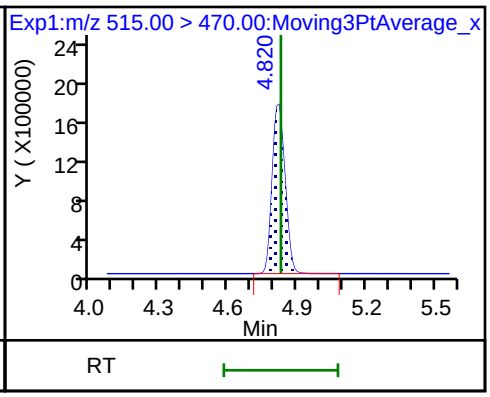
D 33 13C8 FOSA



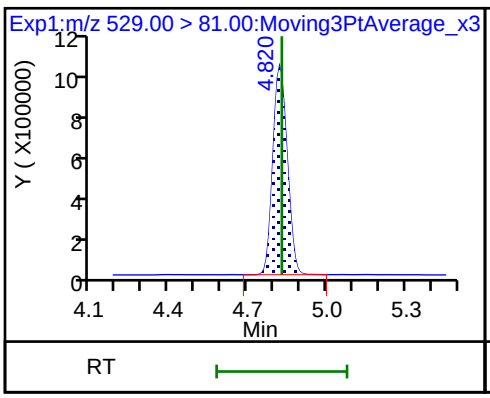
34 Perfluorooctanesulfonamide



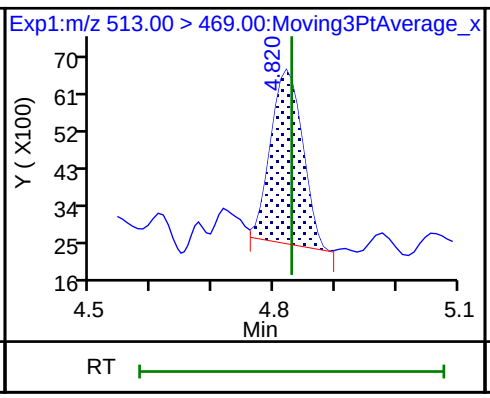
D 39 13C2 PFDA



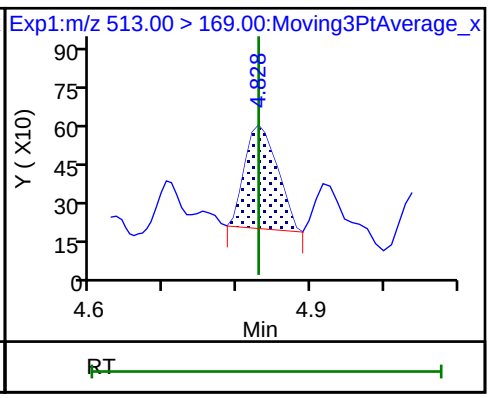
D 38 M2-8:2 FTS



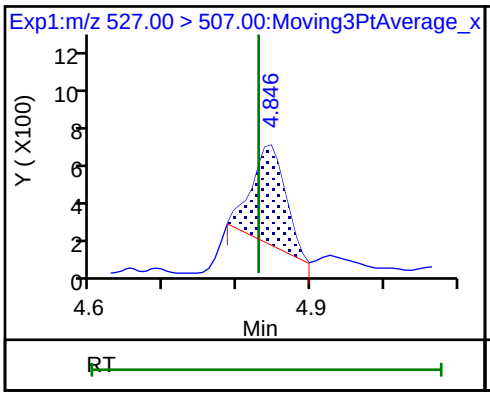
37 Perfluorodecanoic acid



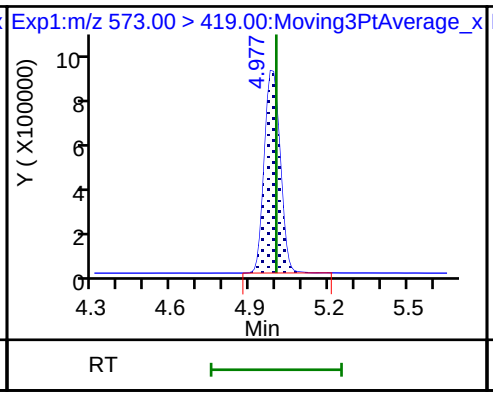
37 Perfluorodecanoic acid



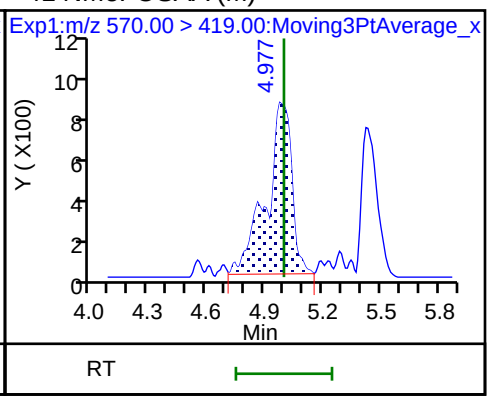
36 8:2 FTS



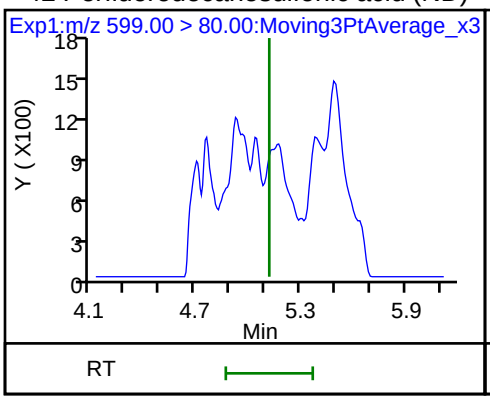
D 40 d3-NMeFOSAA



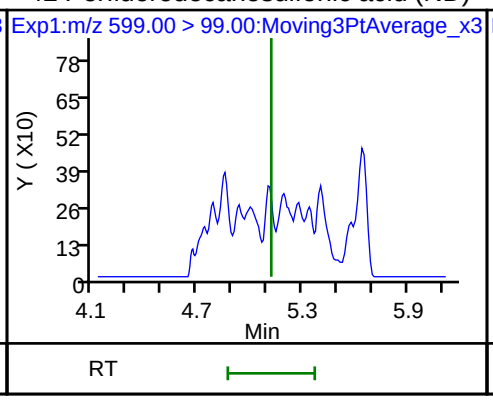
41 NMeFOSAA (M)



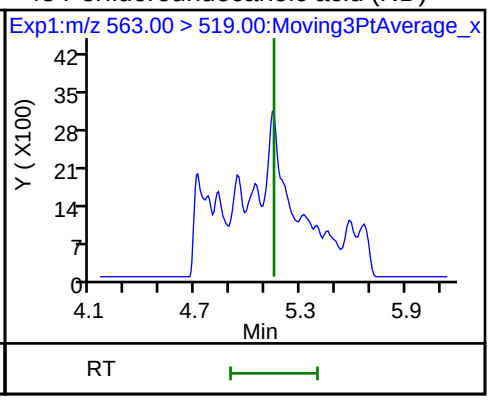
42 Perfluorodecanesulfonic acid (ND)



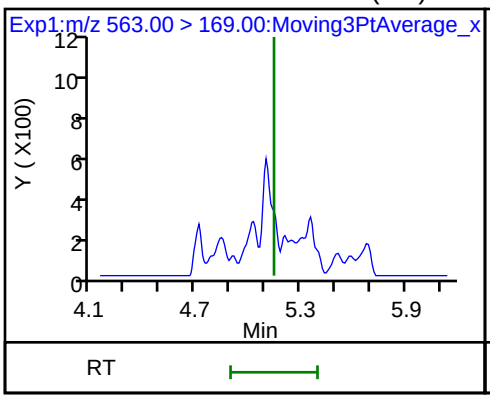
42 Perfluorodecanesulfonic acid (ND)



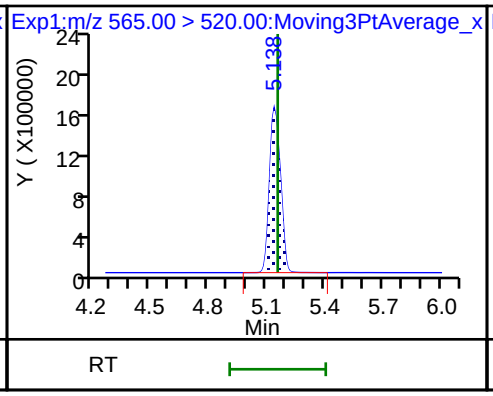
45 Perfluoroundecanoic acid (ND)



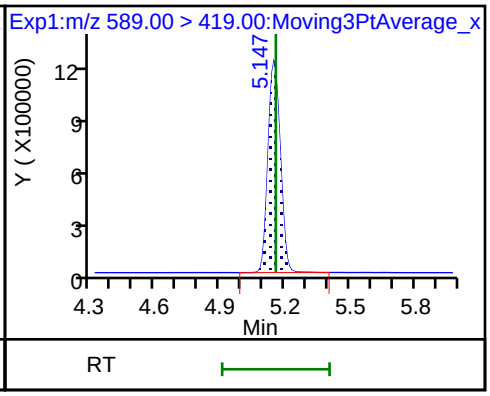
45 Perfluoroundecanoic acid (ND)



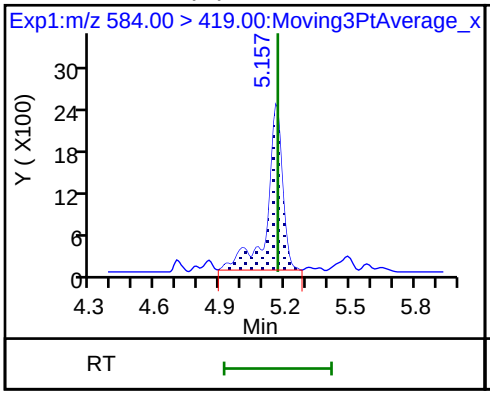
D 43 13C2 PFUnA



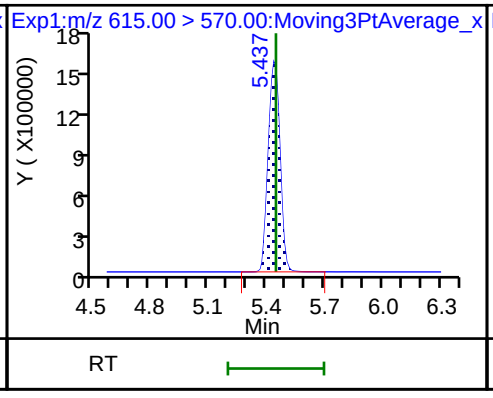
D 44 d5-NEtFOSAA



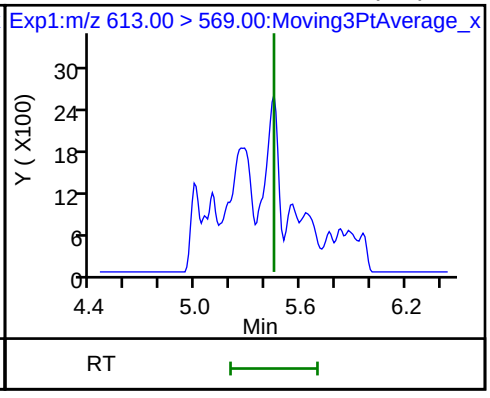
46 NEtFOSA (M)



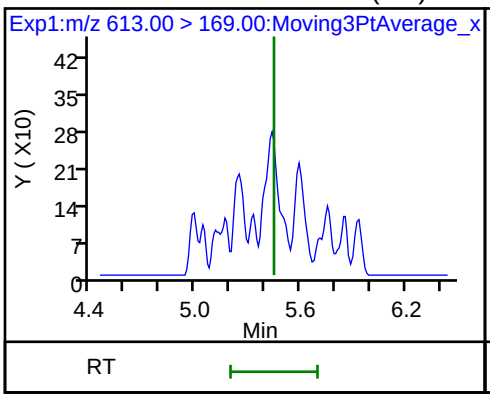
D 56 13C2 PFDoA



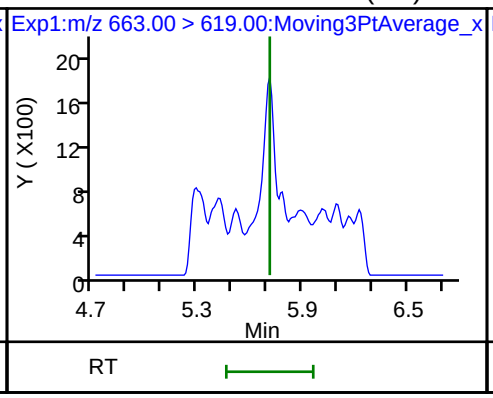
57 Perfluorododecanoic acid (ND)



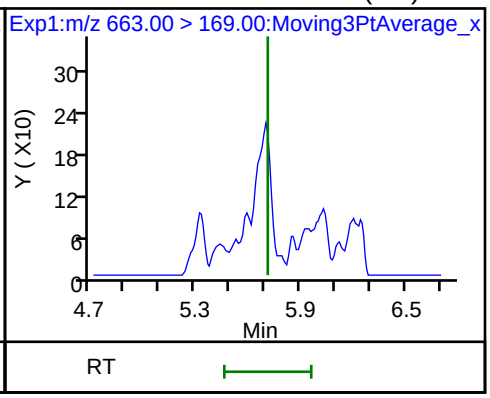
57 Perfluorododecanoic acid (ND)



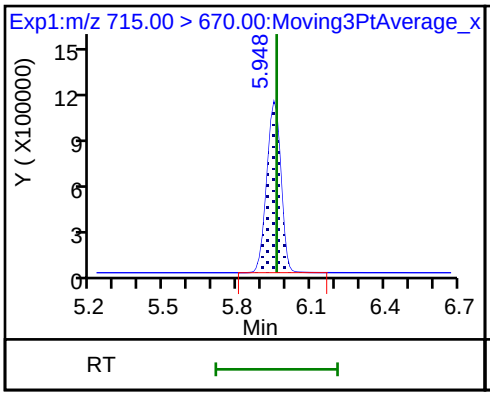
60 Perfluorotridecanoic acid (ND)



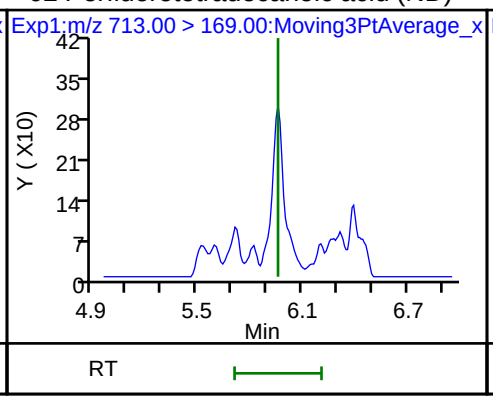
60 Perfluorotridecanoic acid (ND)



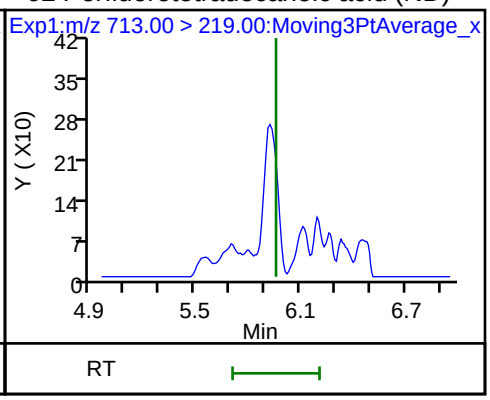
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Sacramento

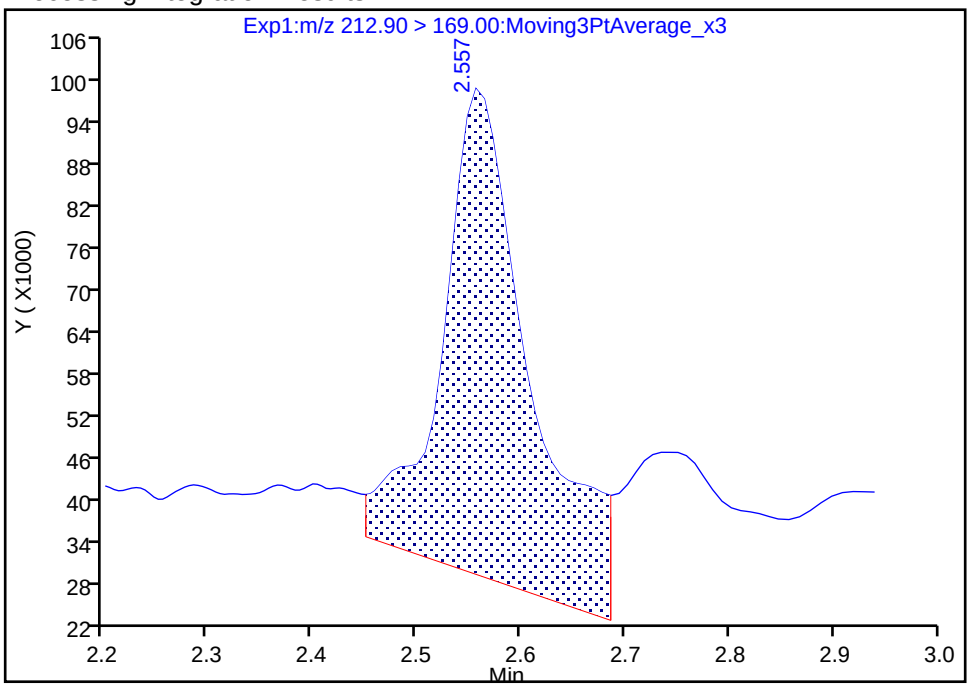
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

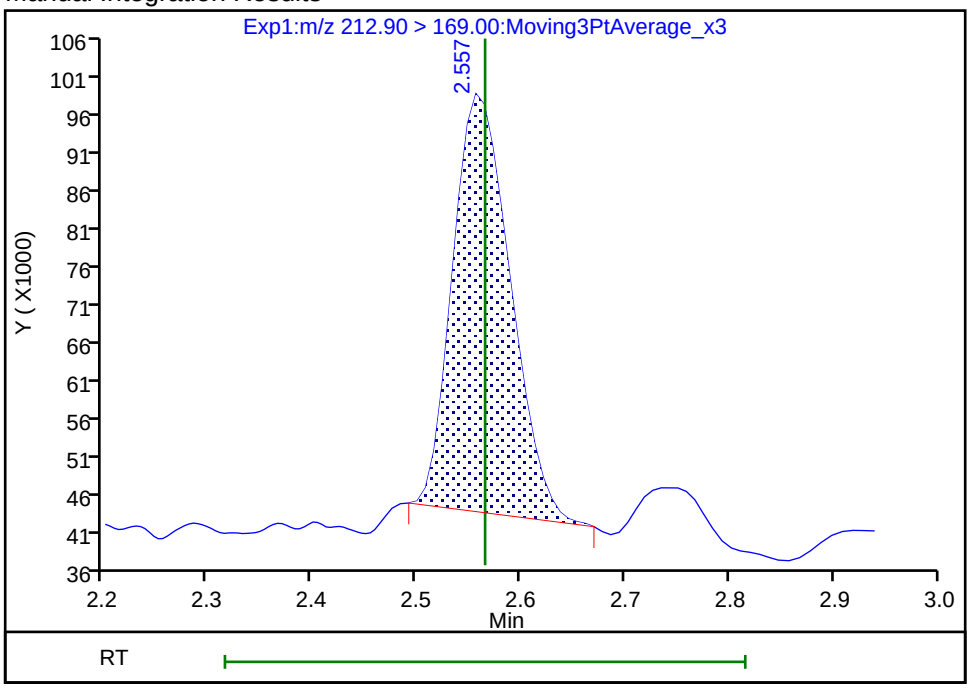
Processing Integration Results

RT: 2.56
Area: 411320
Amount: 0.155427
Amount Units: ng/ml



Manual Integration Results

RT: 2.56
Area: 210714
Amount: 0.079623
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:54:56
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

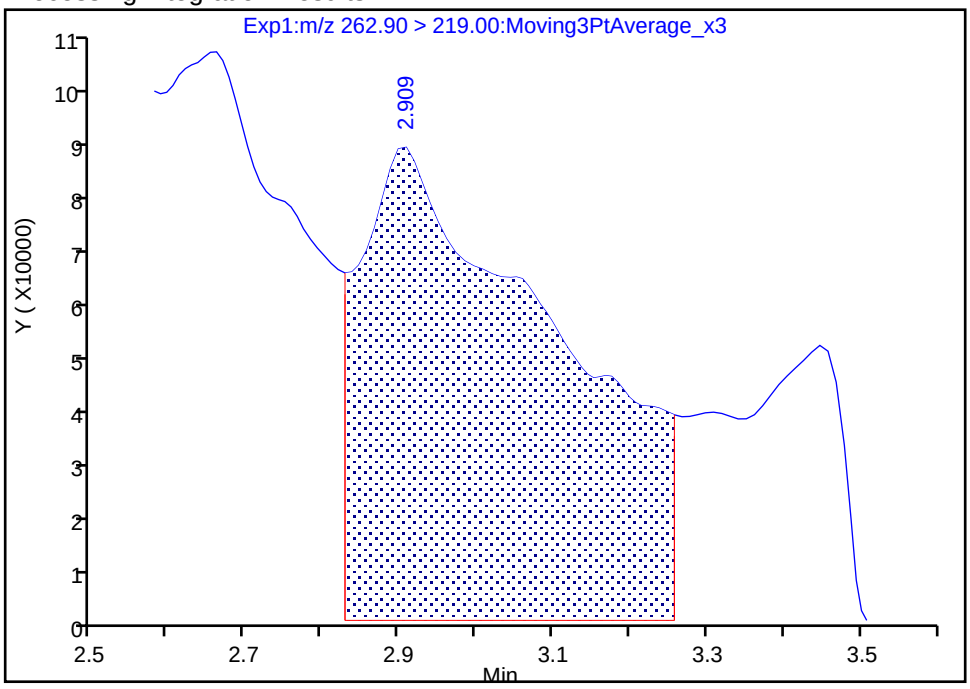
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

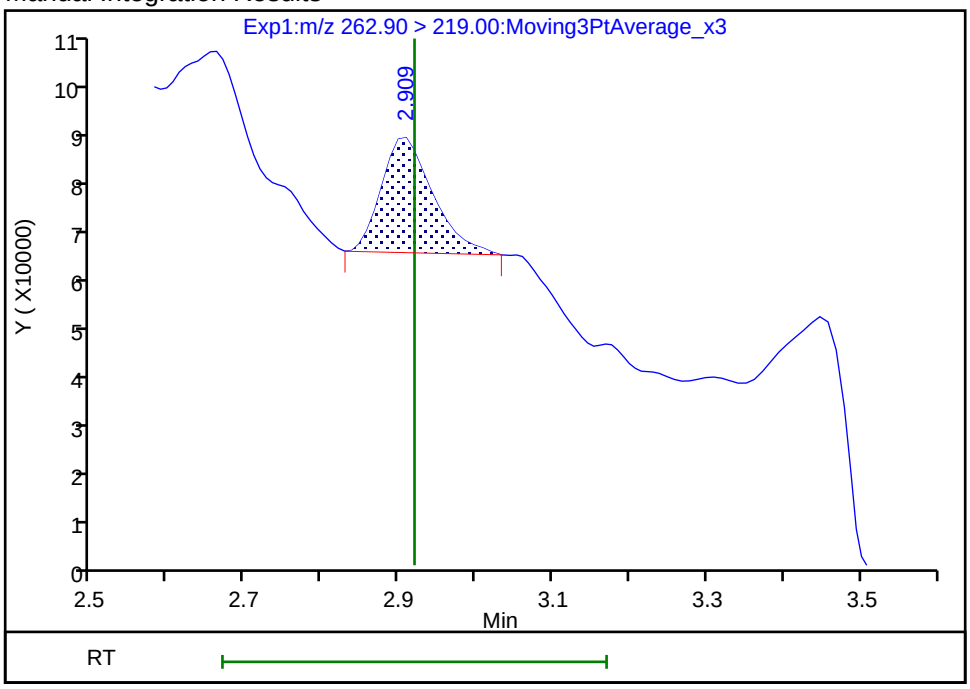
Processing Integration Results

RT: 2.91
Area: 1497461
Amount: 0.460215
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 105104
Amount: 0.032302
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:55:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

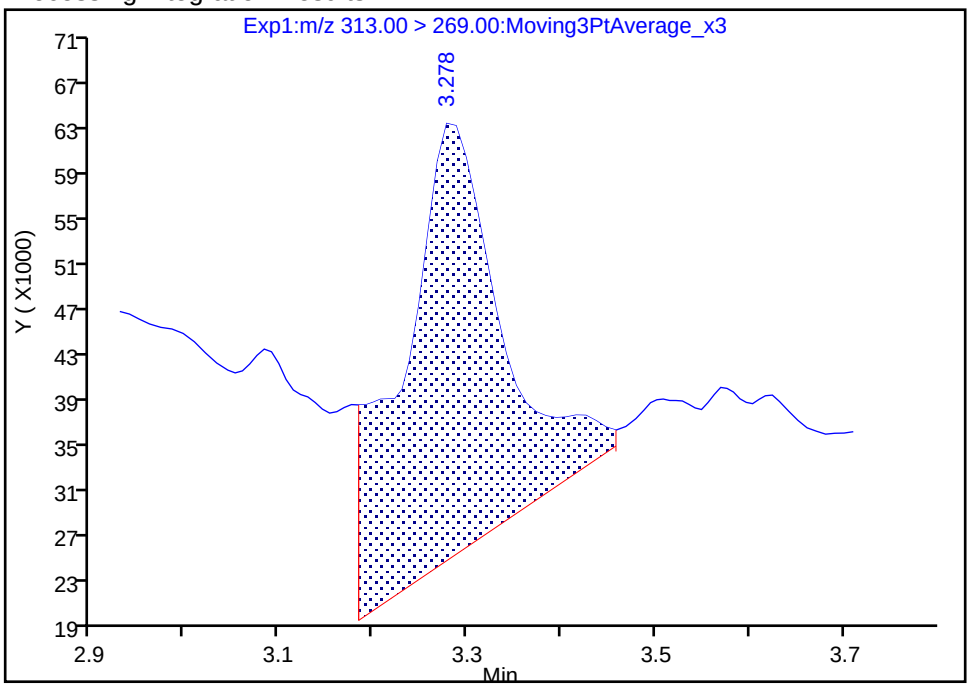
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

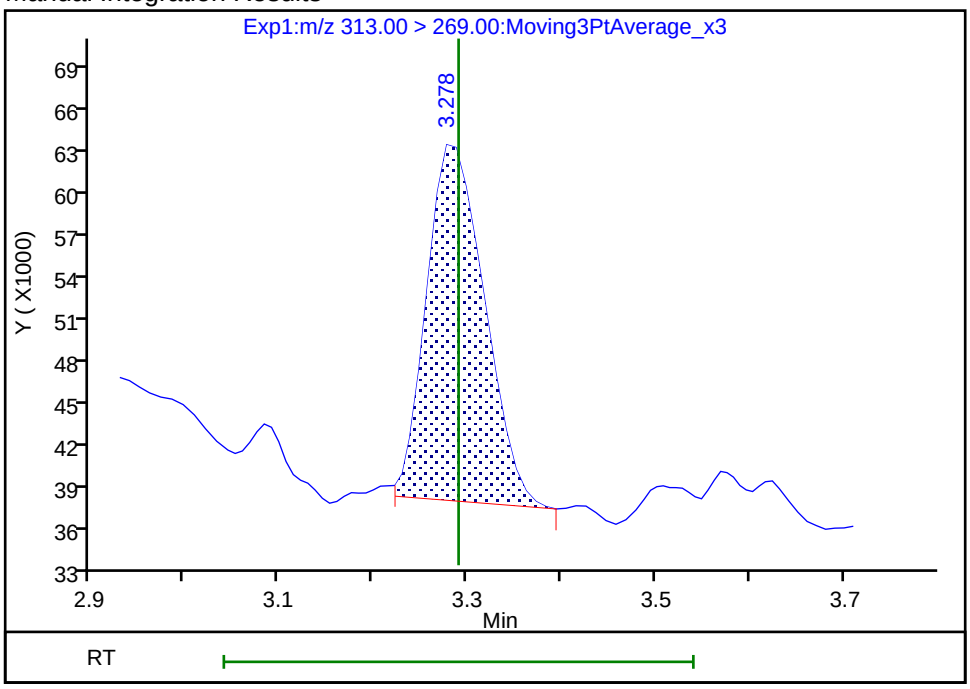
Processing Integration Results

RT: 3.28
Area: 277239
Amount: 0.076227
Amount Units: ng/ml



Manual Integration Results

RT: 3.28
Area: 106270
Amount: 0.029219
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:55:29

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

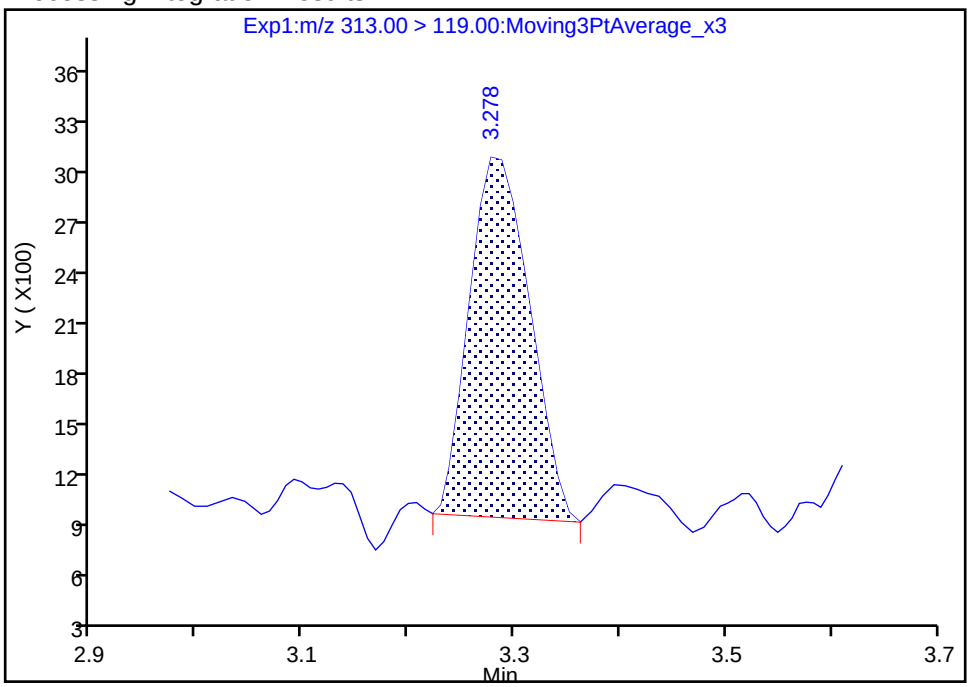
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

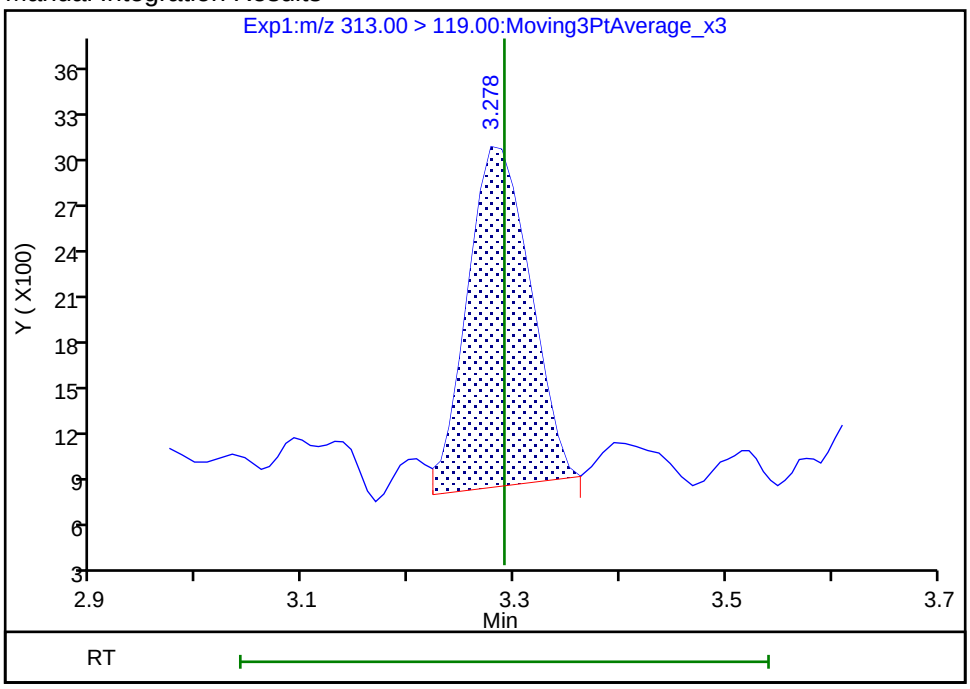
Processing Integration Results

RT: 3.28
Area: 8169
Amount: 0.076227
Amount Units: ng/ml



Manual Integration Results

RT: 3.28
Area: 8852
Amount: 0.029219
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:55:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

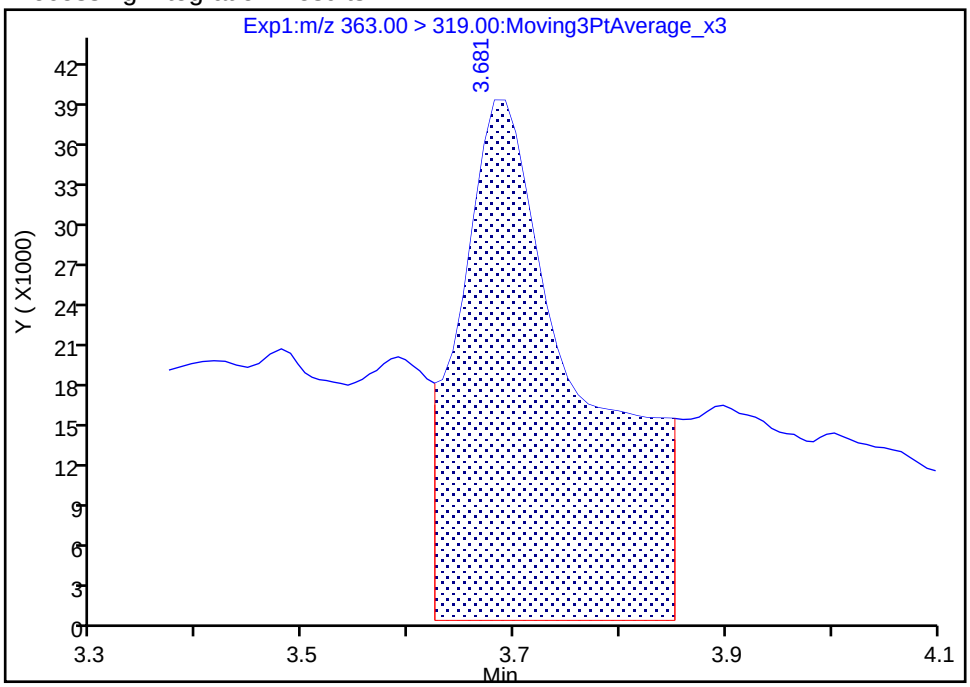
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

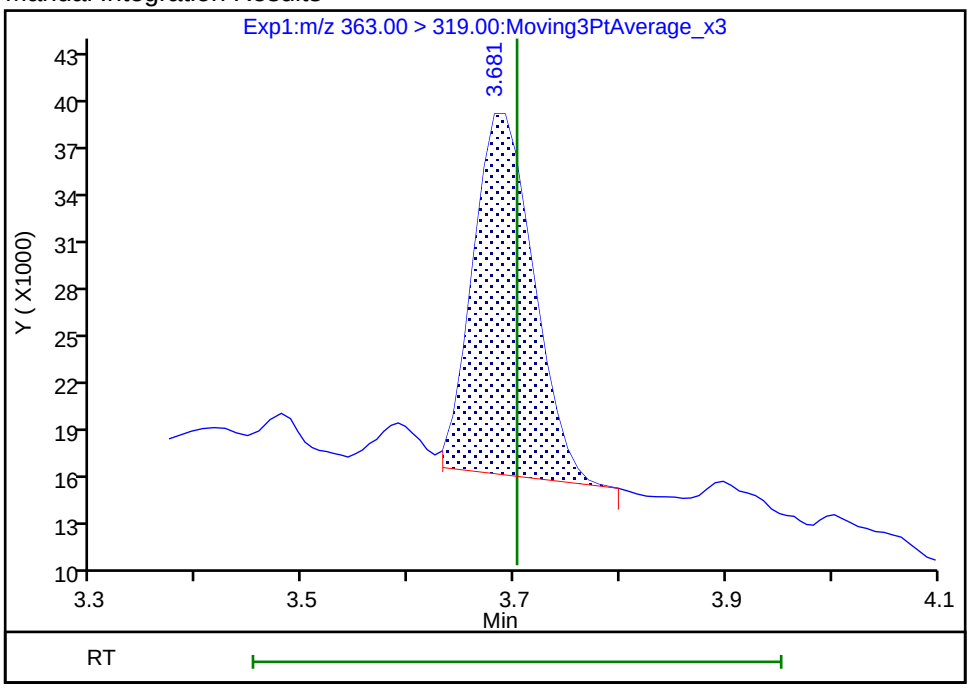
Processing Integration Results

RT: 3.68
Area: 307563
Amount: 0.090240
Amount Units: ng/ml



Manual Integration Results

RT: 3.68
Area: 88935
Amount: 0.026094
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:55:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

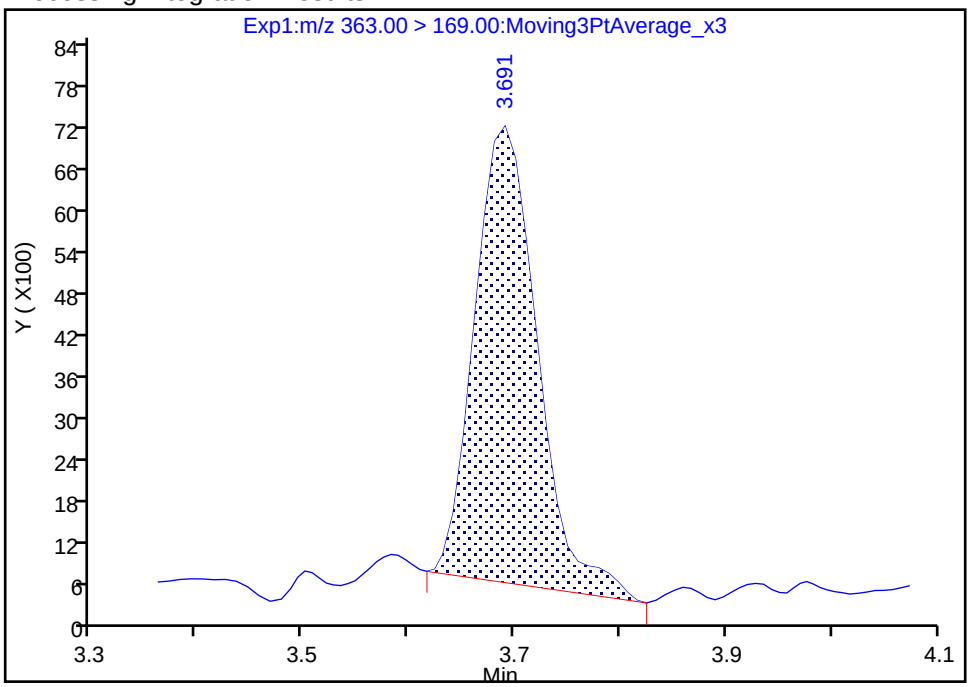
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

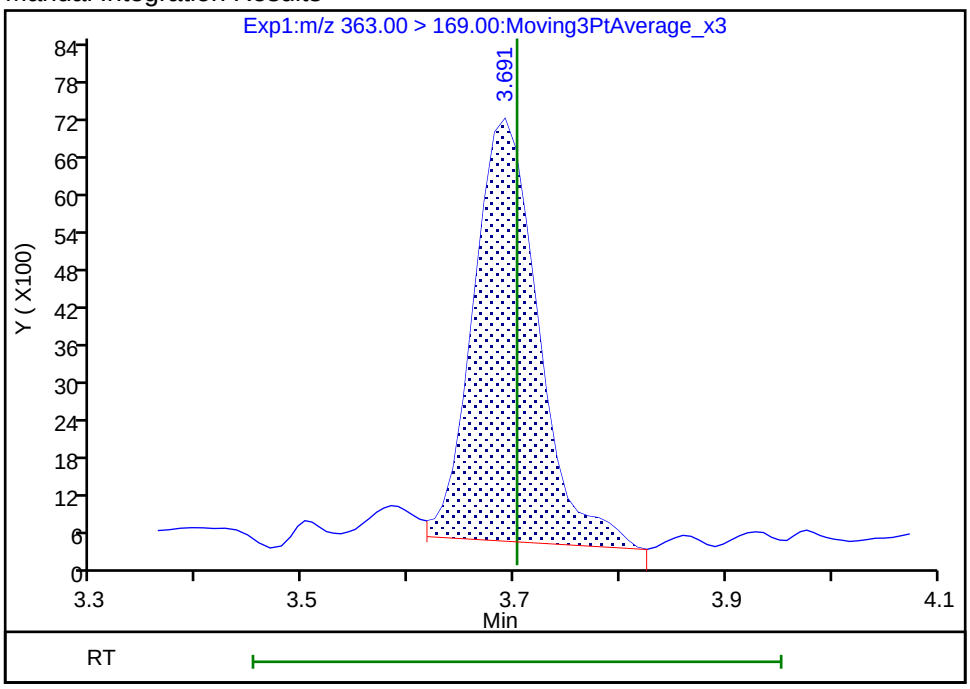
Processing Integration Results

RT: 3.69
Area: 27044
Amount: 0.090240
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 28595
Amount: 0.026094
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:55:58
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

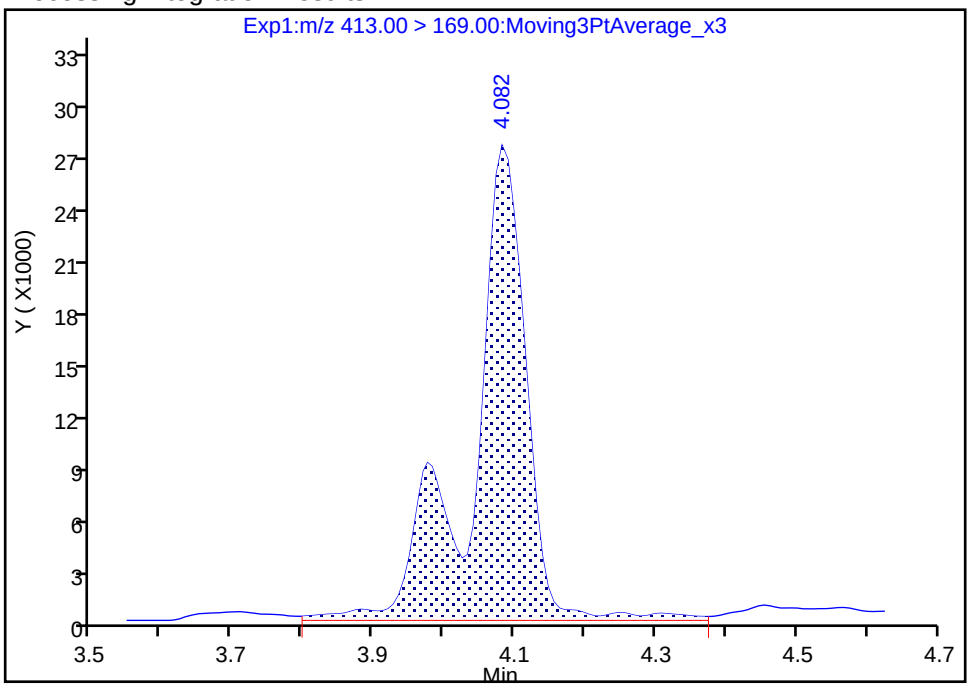
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

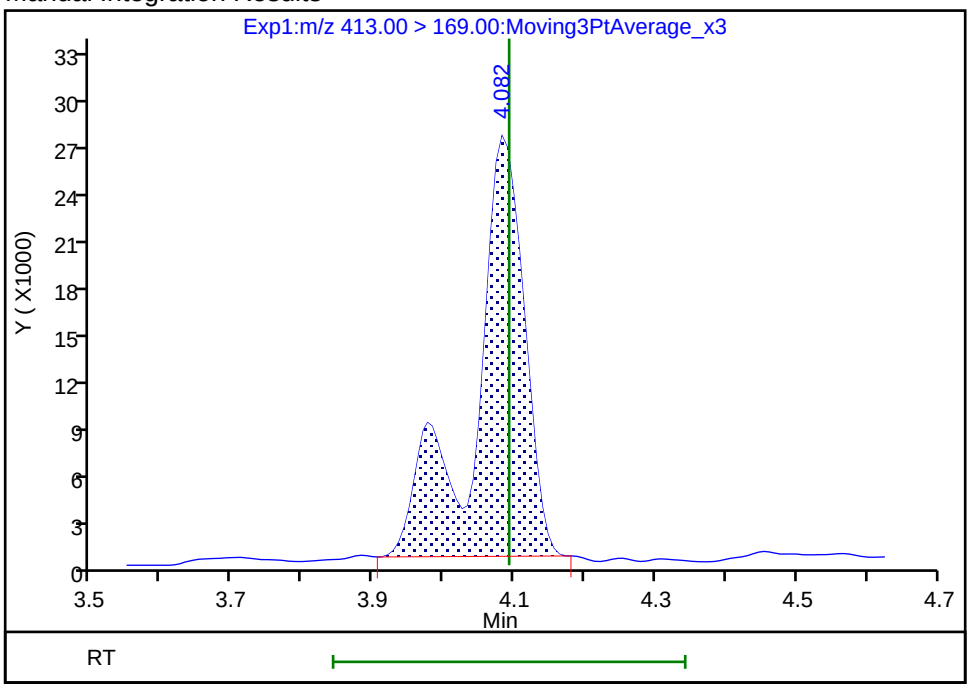
Processing Integration Results

RT: 4.08
Area: 145579
Amount: 0.190971
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 129831
Amount: 0.100808
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:23

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

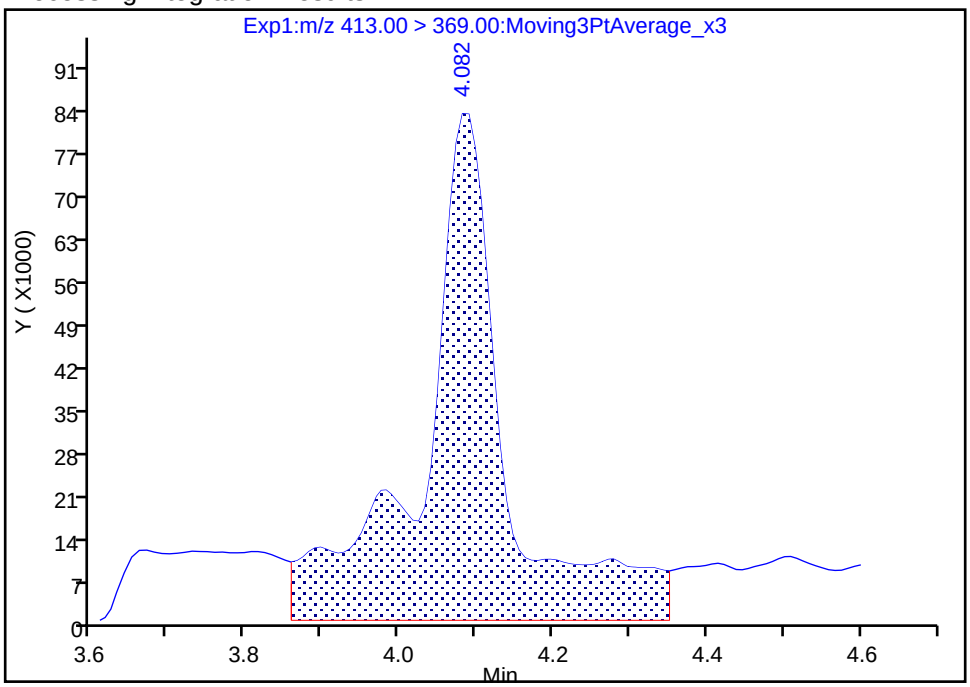
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

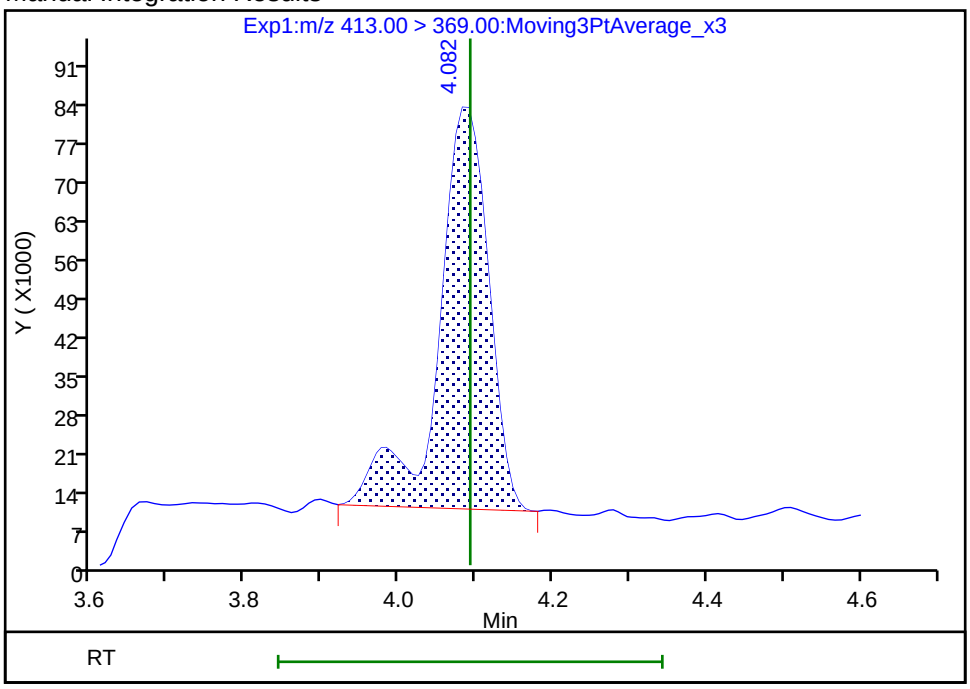
Processing Integration Results

RT: 4.08
Area: 629275
Amount: 0.190971
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 332174
Amount: 0.100808
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

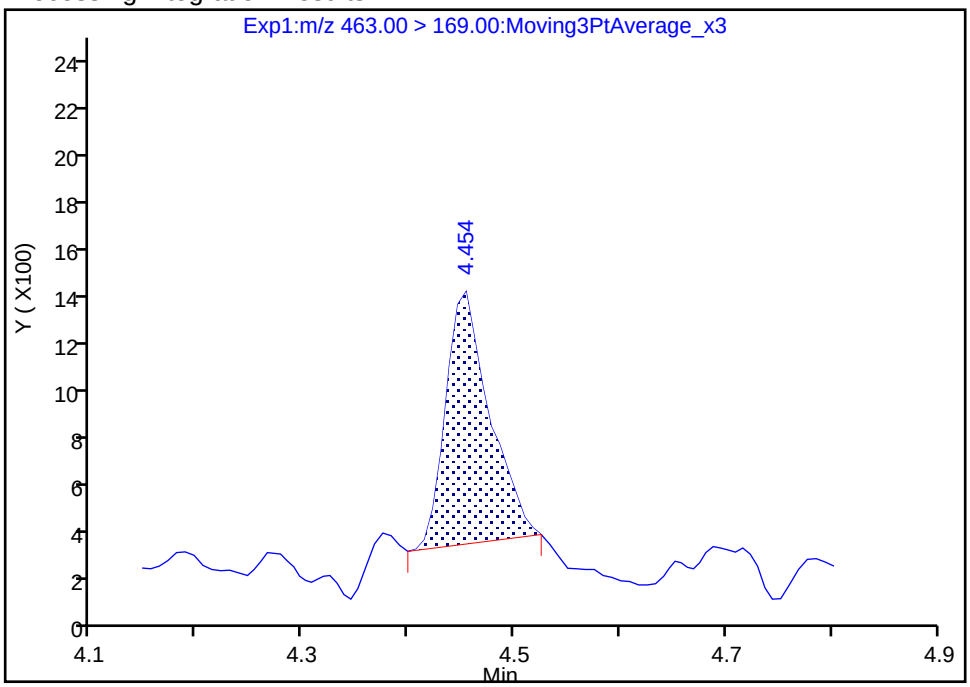
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

31 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

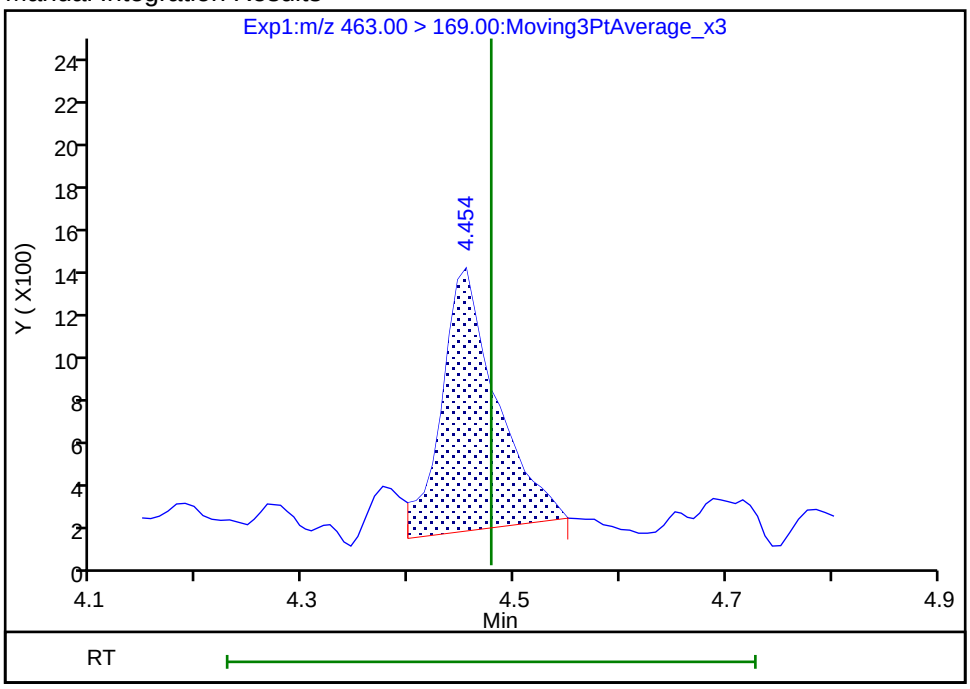
Processing Integration Results

RT: 4.45
Area: 3008
Amount: 0.015755
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 4334
Amount: 0.011837
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

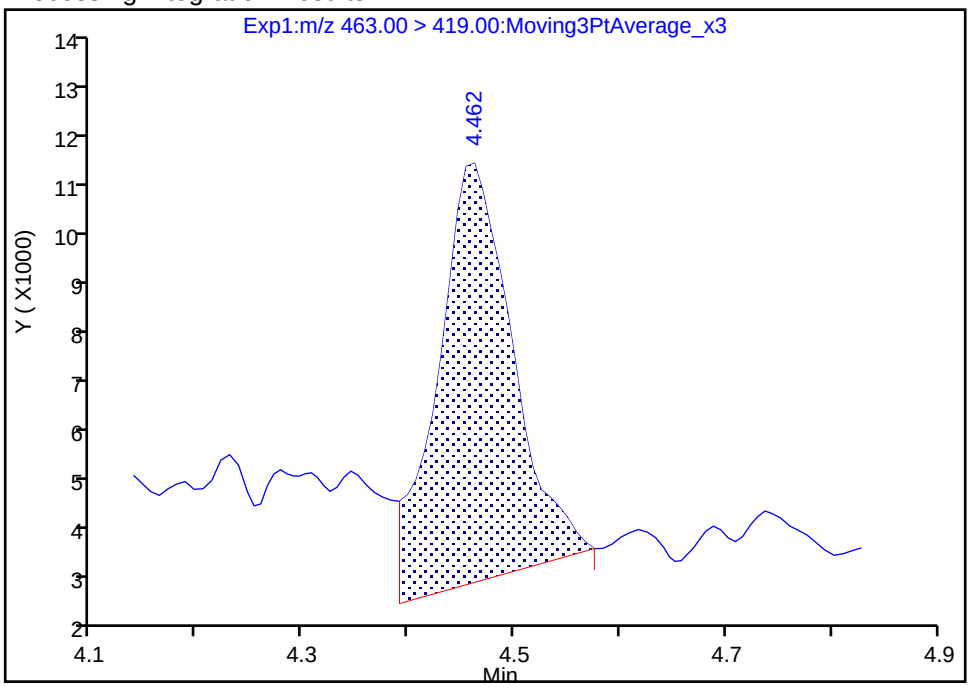
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

31 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

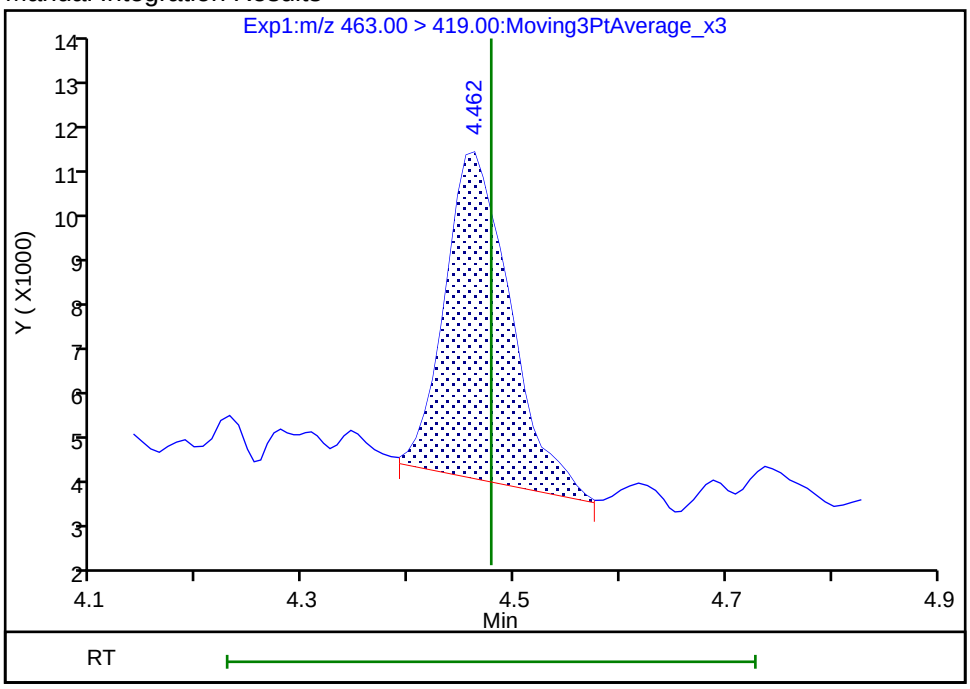
Processing Integration Results

RT: 4.46
Area: 41873
Amount: 0.015755
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 31461
Amount: 0.011837
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

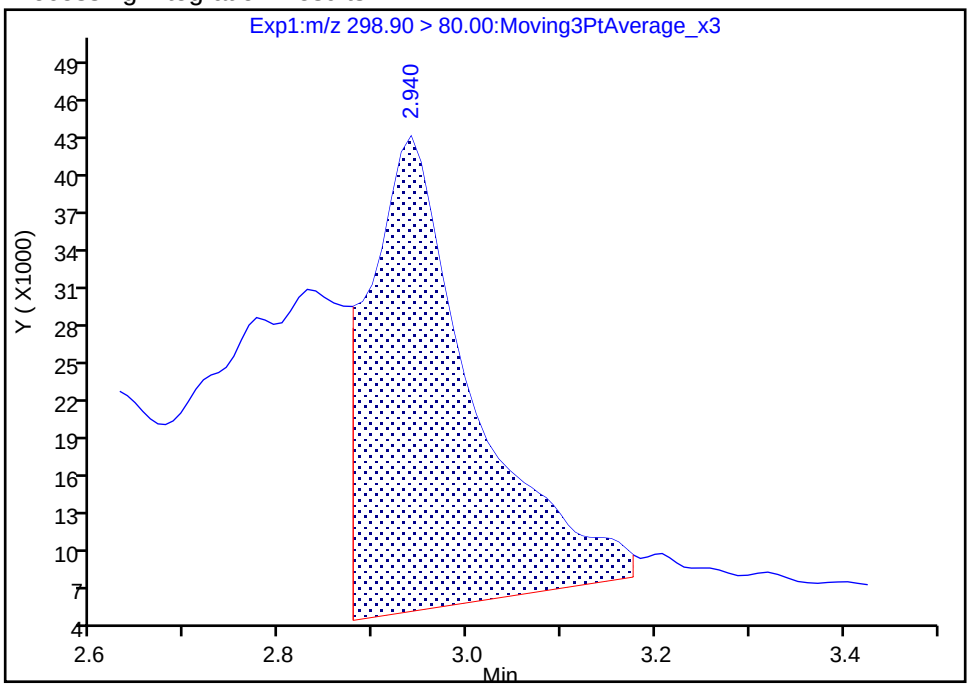
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

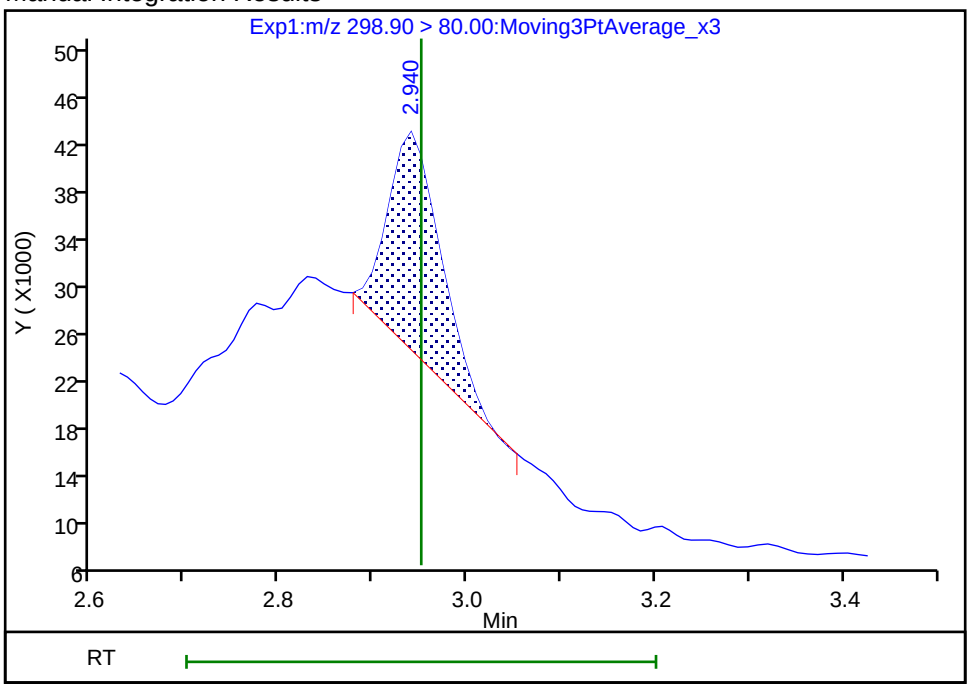
Processing Integration Results

RT: 2.94
Area: 287711
Amount: 0.066604
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 71084
Amount: 0.016456
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:55:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

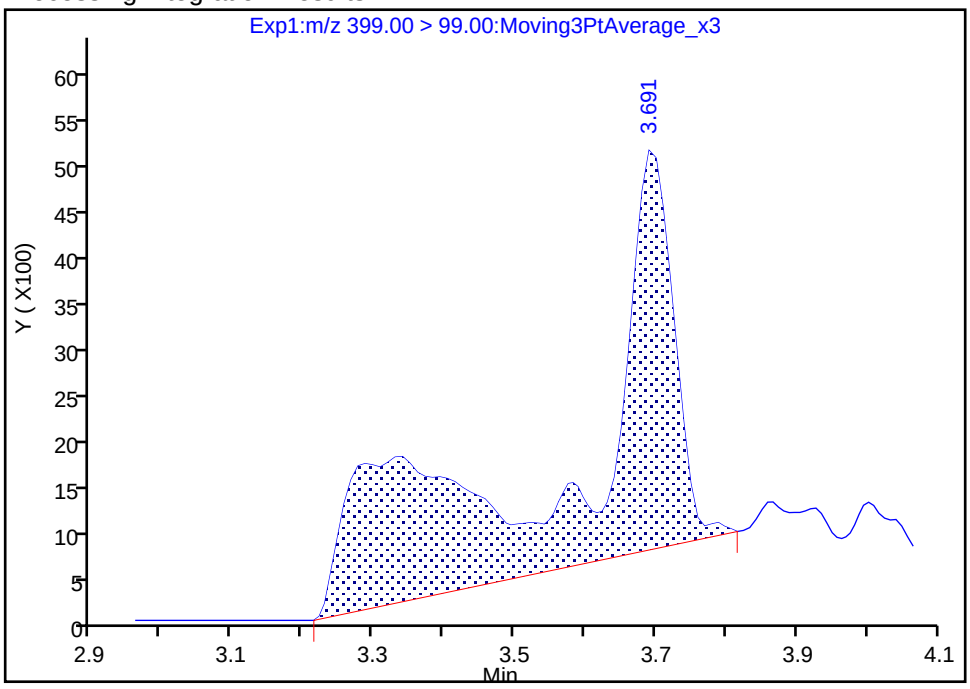
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

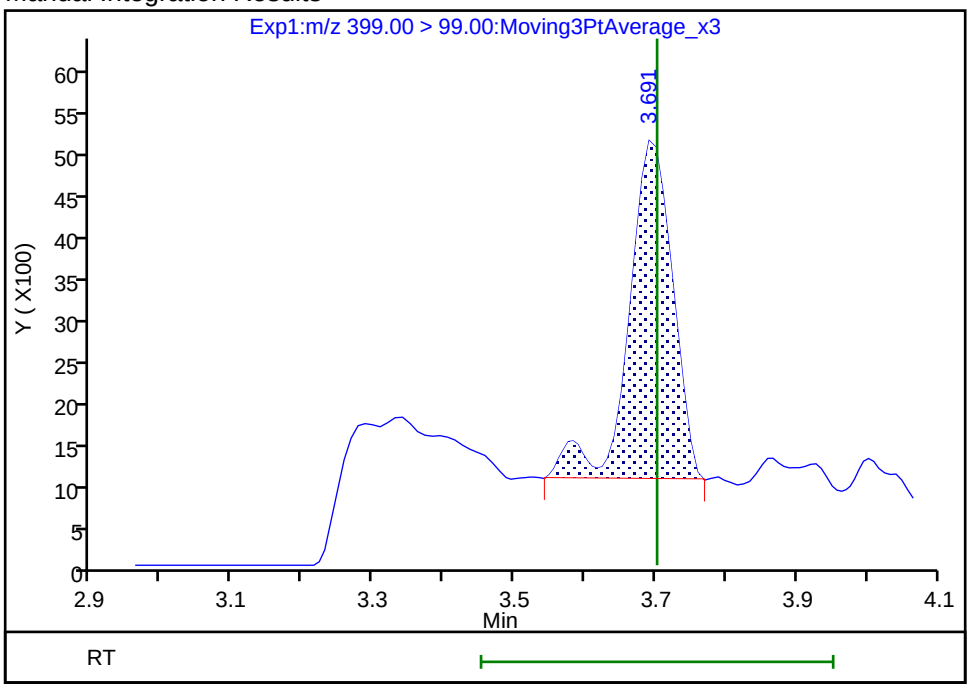
Processing Integration Results

RT: 3.69
Area: 43151
Amount: 0.094669
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 17568
Amount: 0.027726
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:06

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

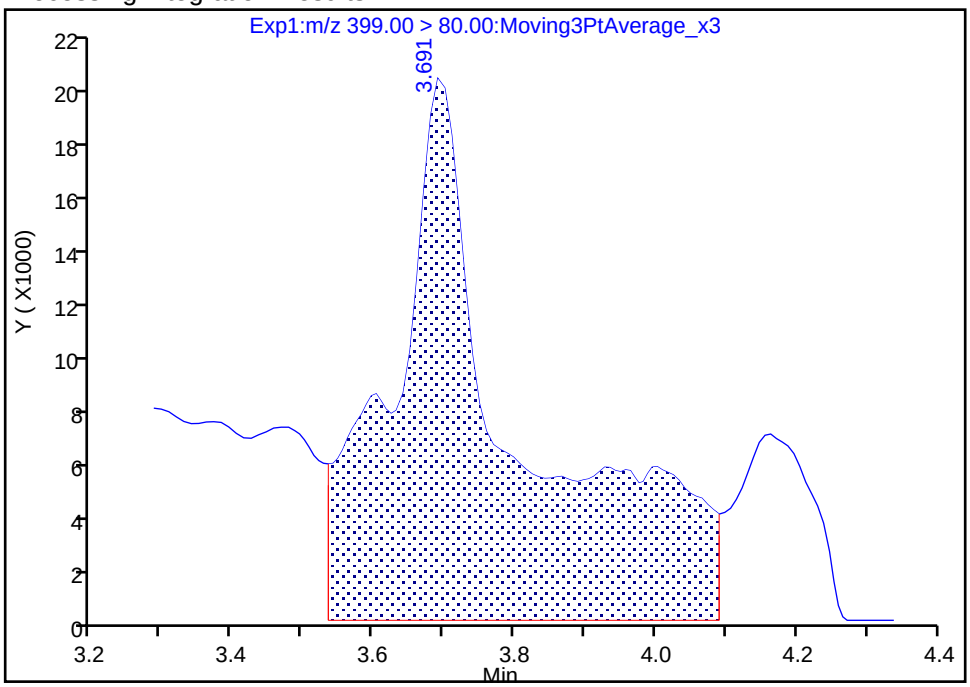
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

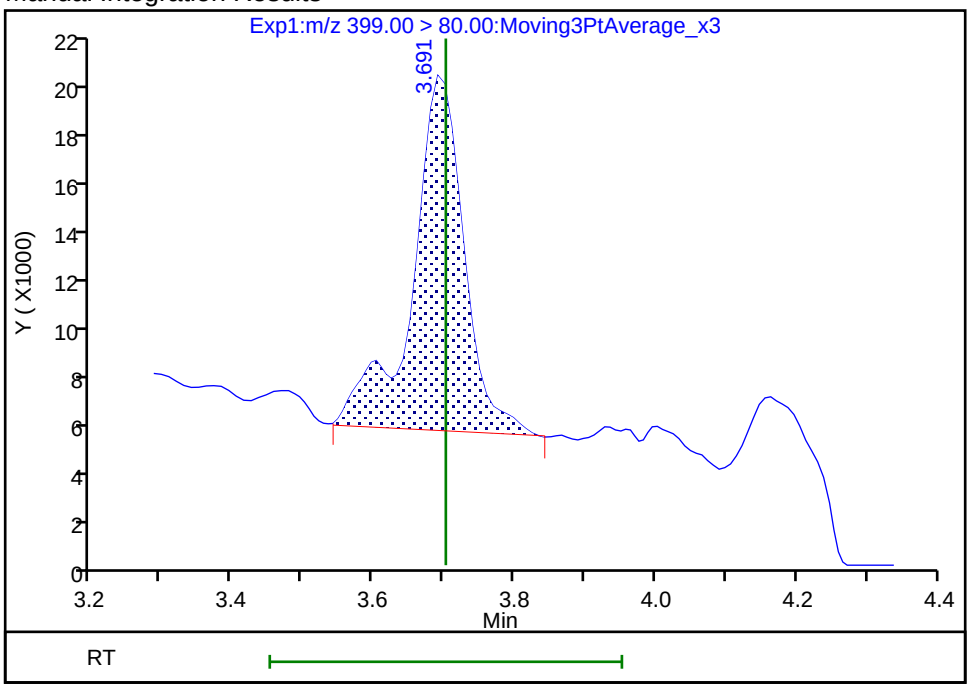
Processing Integration Results

RT: 3.69
Area: 250811
Amount: 0.094669
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 73455
Amount: 0.027726
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

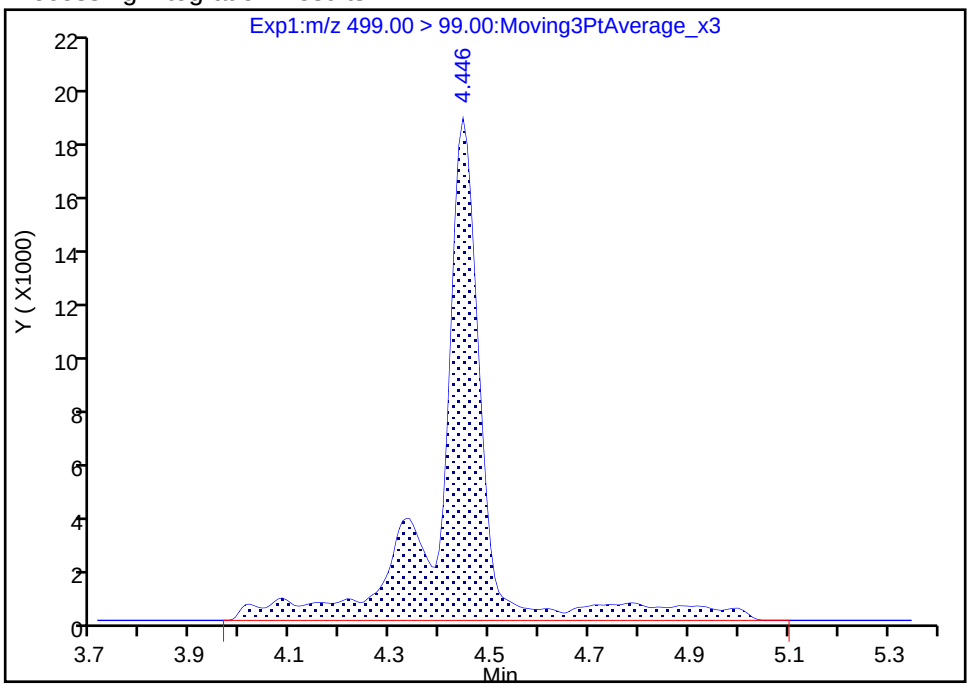
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

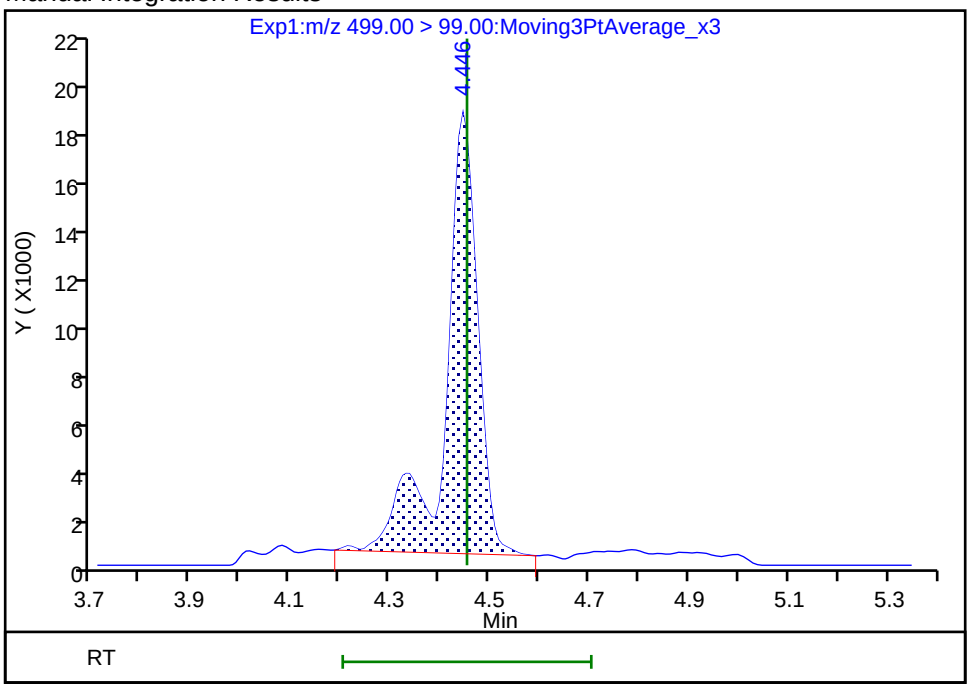
Processing Integration Results

RT: 4.45
Area: 115952
Amount: 0.328495
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 83967
Amount: 0.309248
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:35

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

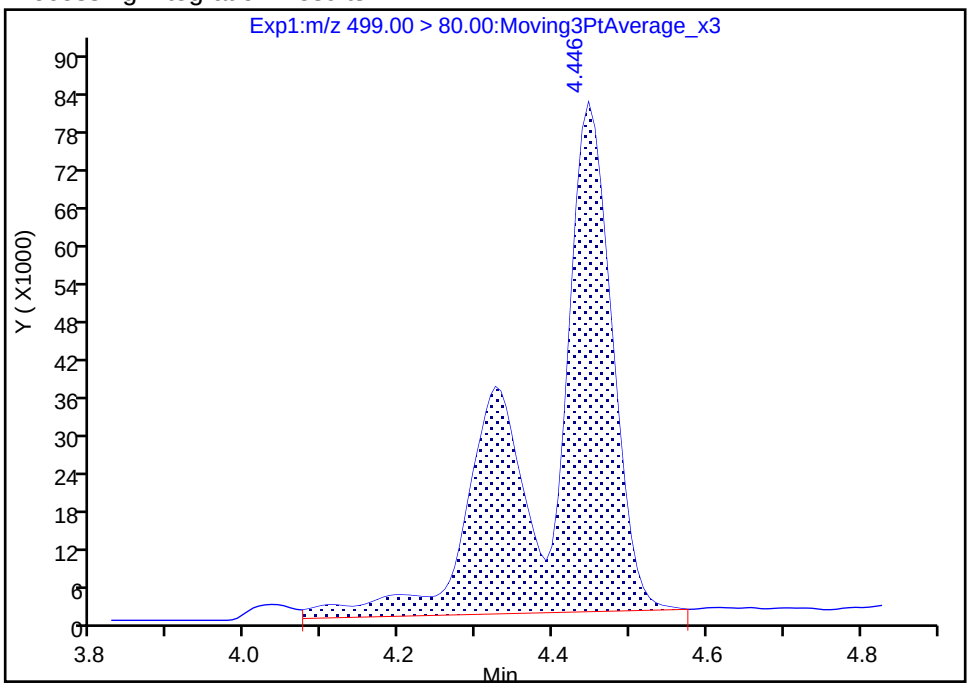
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

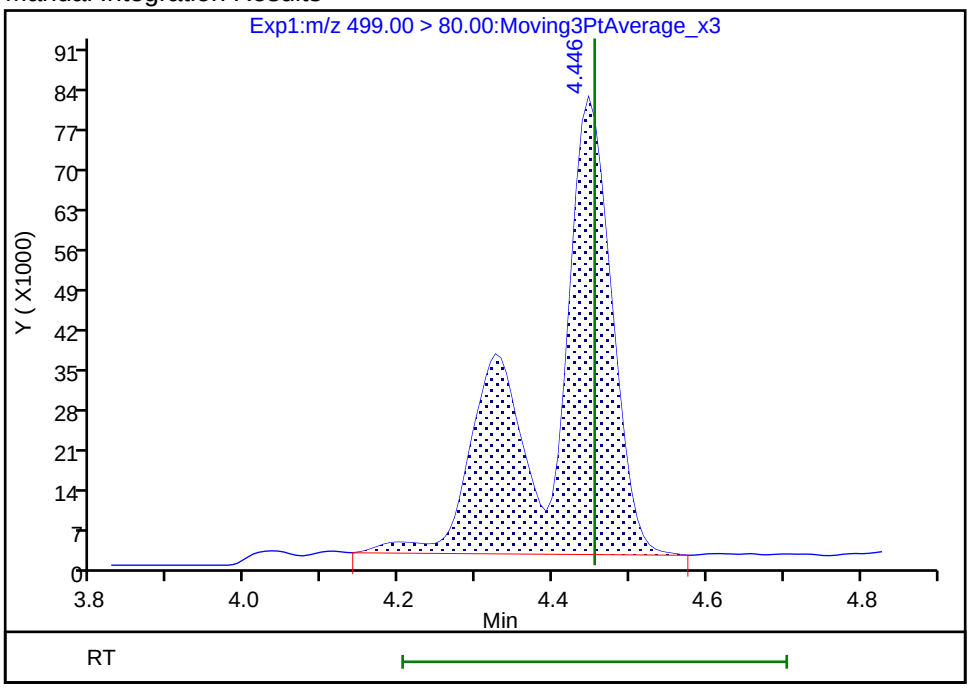
Processing Integration Results

RT: 4.45
Area: 499843
Amount: 0.328495
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 470556
Amount: 0.309248
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:56:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

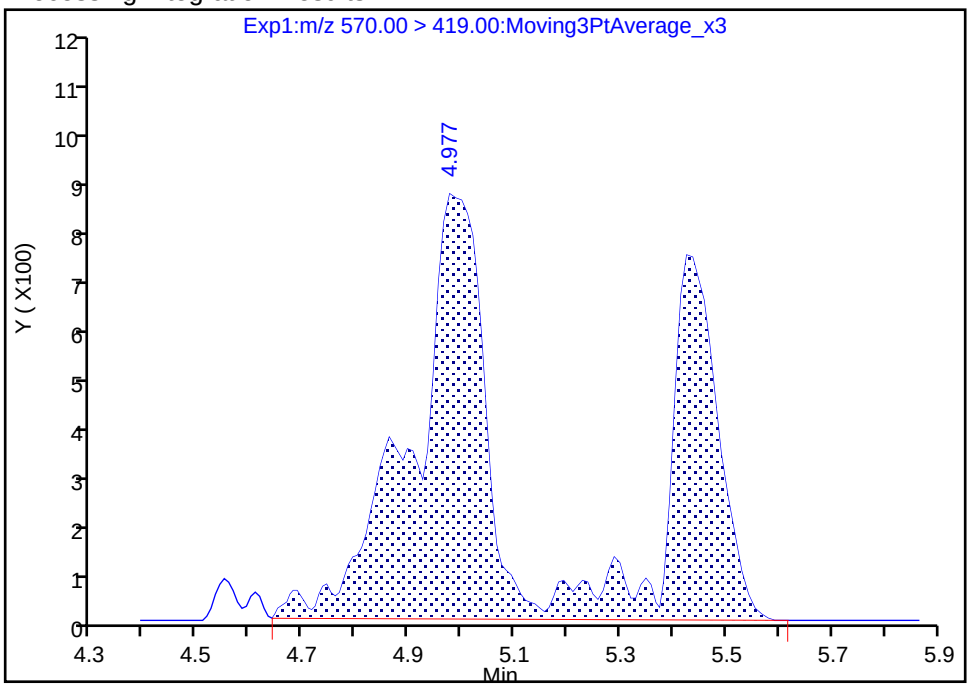
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

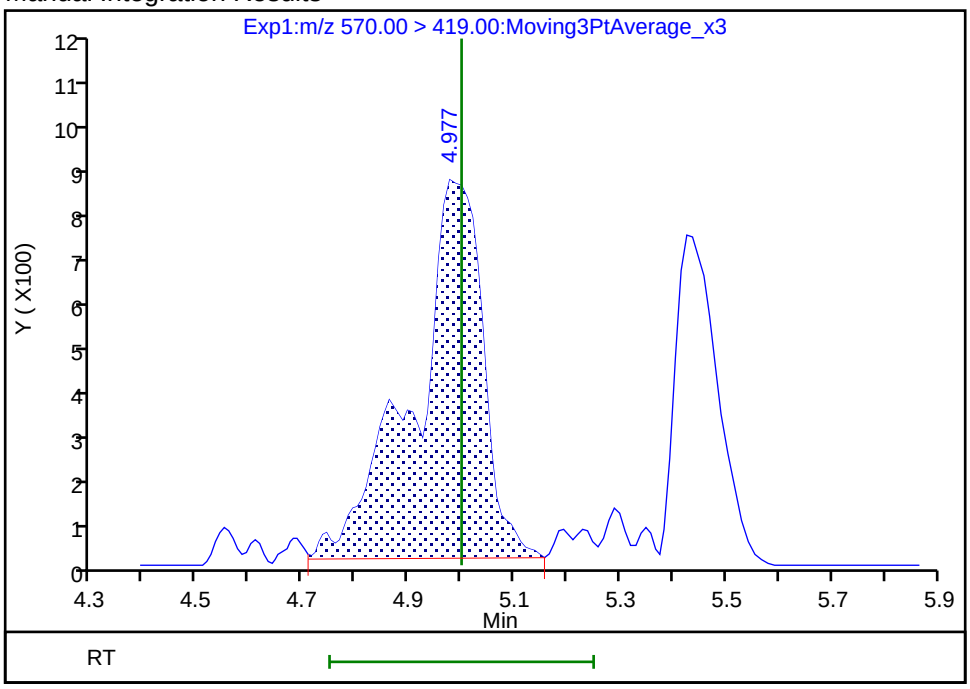
Processing Integration Results

RT: 4.98
Area: 12467
Amount: 0.011611
Amount Units: ng/ml



Manual Integration Results

RT: 4.98
Area: 7312
Amount: 0.006810
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:57:13

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

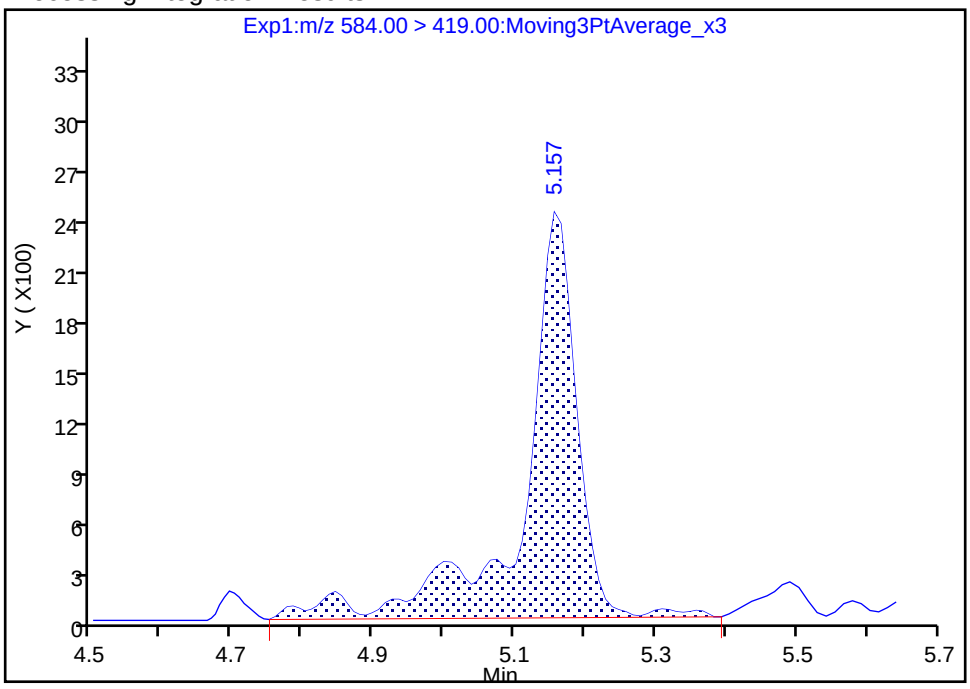
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_017.d				
Injection Date:	11-Sep-2020 12:50:59	Instrument ID:	A18		
Lims ID:	460-217547-E-2-A	Lab Sample ID:	320-217547-2		
Client ID:	MW-204				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	8	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

46 NEtFOSA, CAS: 2991-50-6

Signal: 1

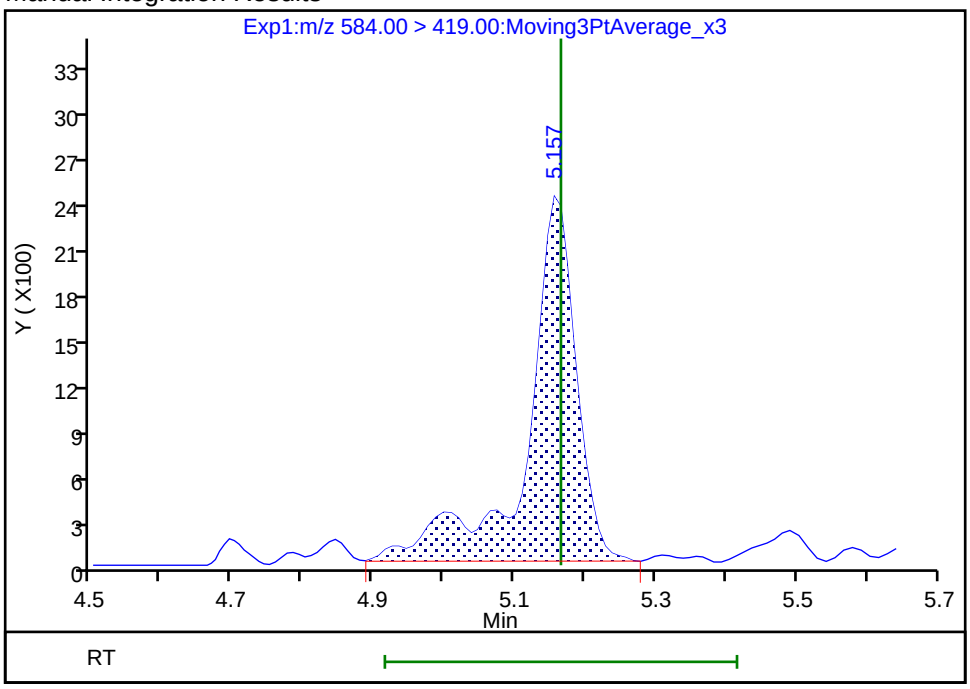
Processing Integration Results

RT: 5.16
Area: 12670
Amount: 0.010298
Amount Units: ng/ml



Manual Integration Results

RT: 5.16
Area: 11565
Amount: 0.009400
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:57:25

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-205 Lab Sample ID: 460-217547-3

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_018.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 12:40

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 251.6(mL) Date Analyzed: 09/11/2020 13:00

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.59	J B	1.99	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	1.99	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	1.99	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	1.99	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.84	U	1.99	0.84
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	1.99	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	1.99	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.09	U	1.99	1.09
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	1.99	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.29	U	1.99	1.29
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	1.99	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	J	1.99	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.44	J B	1.99	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.99	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.93	J	1.99	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	1.99	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.35	U	1.99	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.08	U	19.9	3.08
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89	U	19.9	1.89
27619-97-2	6:2 FTS	1.99	U	19.9	1.99
39108-34-4	8:2 FTS	1.99	U	19.9	1.99

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-205 Lab Sample ID: 460-217547-3

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_018.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 12:40

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 251.6(mL) Date Analyzed: 09/11/2020 13:00

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	58		25-150
STL01893	13C5 PFPeA	77		25-150
STL00993	13C2 PFHxA	86		25-150
STL01892	13C4 PFHpA	88		25-150
STL00990	13C4 PFOA	92		25-150
STL00995	13C5 PFNA	91		25-150
STL00996	13C2 PFDA	84		25-150
STL00997	13C2 PFUnA	91		25-150
STL00998	13C2 PFDoA	71		25-150
STL02116	13C2 PFTeDA	84		25-150
STL02337	13C3 PFBS	92		25-150
STL00994	18O2 PFHxS	95		25-150
STL00991	13C4 PFOS	94		25-150
STL01056	13C8 FOSA	77		25-150
STL02118	d3-NMeFOSAA	68		25-150
STL02117	d5-NEtFOSAA	74		25-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	101		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d
Lims ID: 460-217547-E-3-A
Client ID: MW-205
Sample Type: Client
Inject. Date: 11-Sep-2020 13:00:08 ALS Bottle#: 9 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-e-3-a
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 10:03:10 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 10:03:10
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.558	2.566	-0.008	0.627	11026219	1.44		57.8	5899	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.558	2.566	-0.008	1.000	57214	0.0149			1.3	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.910	2.909	0.001	0.713	11416359	1.92		76.9	4076	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.910	2.920	-0.010	1.000	47487	0.0104			0.7	M
D 9 13C3 PFBS										
301.90 > 80.00	2.940	2.951	-0.011	0.720	9931639	2.13		91.6	2742	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.940	2.951	-0.011	1.000	21574	0.005002	Target=2.37		2.0	
298.90 > 99.00	2.940	2.951	-0.011	1.000	10378		2.08(1.19-3.56)		1.6	
D 11 13C2 PFHxA										
315.00 > 270.00	3.281	3.290	-0.009	0.804	12714577	2.15		85.8	5655	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.281	3.290	-0.009	1.000	24791	0.005057	Target=13.16		0.6	
313.00 > 119.00	3.271	3.290	-0.019	0.997	1724		14.38(6.58-19.74)		0.9	
D 17 18O2 PFHxS										
403.00 > 84.00	3.690	3.702	-0.012	0.904	5511899	2.24		94.6	7862	
D 18 13C4 PFHpA										
367.00 > 322.00	3.690	3.702	-0.012	0.904	11173228	2.21		88.3	5884	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.690	3.702	-0.012	1.000	22013	0.004859	Target=3.69		0.8	
363.00 > 169.00	3.690	3.702	-0.012	1.000	4226		5.21(1.85-5.54)		2.2	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.690	3.702	-0.012	1.000	30559	0.0111	Target=3.35		7.7	M
399.00 > 99.00	3.690	3.702	-0.012	1.000	8257		3.70(1.67-5.02)		3.3	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.066	4.068	-0.002	0.996	2258125	2.39		101	1085	
21 6:2 FTS										
427.00 > 407.00	4.066	4.068	-0.002	1.000	6602	0.003021			11.1	
D 25 13C4 PFOA										
417.00 > 372.00	4.082	4.092	-0.010	1.000	11084658	2.30		92.0	6037	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.082	4.092	-0.010	1.000	62126	0.0137	Target=2.91		4.9	M
413.00 > 169.00	4.082	4.092	-0.010	1.000	27878		2.23(1.45-4.36)		18.5	M
* 23 13C2 PFOA										
415.00 > 370.00	4.082	4.092	-0.010		12038587	2.50			6653	
D 27 13C4 PFOS										
503.00 > 80.00	4.446	4.454	-0.008	1.089	3742244	2.24		93.8	1758	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.446	4.454	-0.008	1.000	37835	0.0233	Target=4.72		7.0	M
499.00 > 99.00	4.454	4.454	0.0	1.002	5618		6.73(2.36-7.07)		2.2	M
D 30 13C5 PFNA										
468.00 > 423.00	4.462	4.470	-0.008	1.093	8794415	2.27		90.6	5993	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.172	5199100	1.93		77.3	3726	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.000	15512	0.008016			93.4	
D 39 13C2 PFDA										
515.00 > 470.00	4.811	4.828	-0.017	1.179	7903196	2.10		83.9	10297	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.820	4.828	-0.008	1.181	3291550	2.42		101	1679	
36 8:2 FTS										
527.00 > 507.00	4.811	4.828	-0.017	0.998	1979	0.000811			29.8	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.989	5.000	-0.011	1.222	4312705	1.70		68.2	3144	
41 NMeFOSAA										
570.00 > 419.00	4.989	5.000	-0.011	1.000	8218	0.006423			9.9	
D 43 13C2 PFUnA										
565.00 > 520.00	5.139	5.157	-0.018	1.259	8475159	2.27		90.7	8738	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.148	5.157	-0.009	1.261	4917935	1.84		73.5	3660	
46 NEtFOSA										
584.00 > 419.00	5.157	5.166	-0.009	1.002	8449	0.006355			35.7	
D 56 13C2 PFDoA										
615.00 > 570.00	5.437	5.448	-0.011	1.332	6584327	1.79		71.5	6638	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.948	5.959	-0.011	1.457	6403714	2.11		84.3	6145	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.948	5.959	-0.011	1.000	1198	0.005542	Target=1.11		8.0	
713.00 > 219.00	5.936	5.959	-0.023	0.998	1911		0.63(0.56-1.67)		11.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 14-Sep-2020 10:03:10 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d

Injection Date: 11-Sep-2020 13:00:08 Instrument ID: A18

Lims ID: 460-217547-E-3-A Lab Sample ID: 320-217547-3

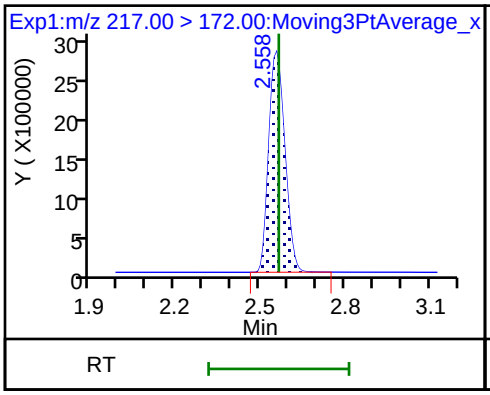
Client ID: MW-205

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 9 Worklist Smp#: 4

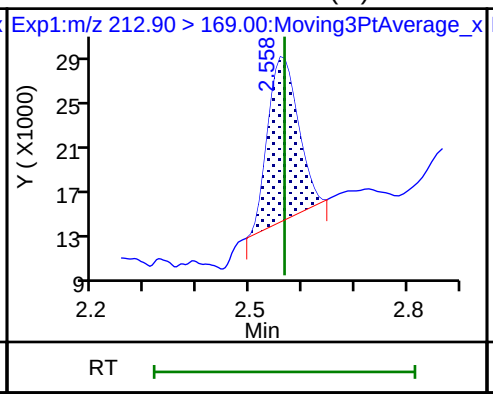
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

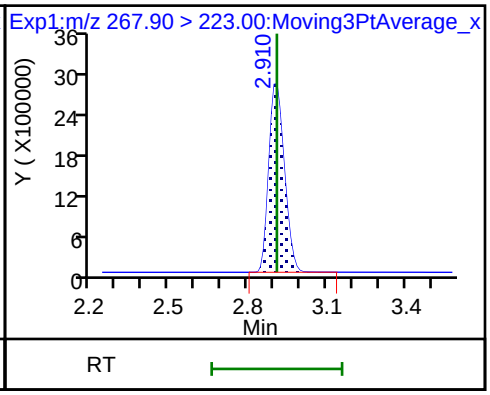
D 1 13C4 PFBA



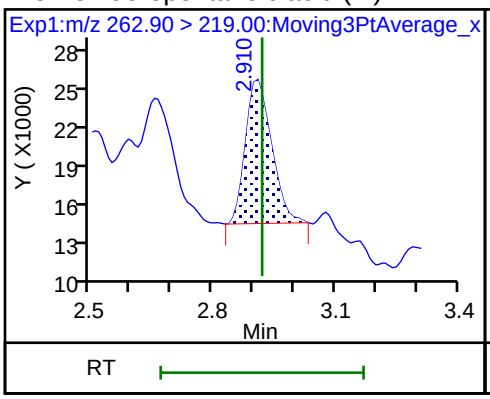
2 Perfluorobutanoic acid (M)



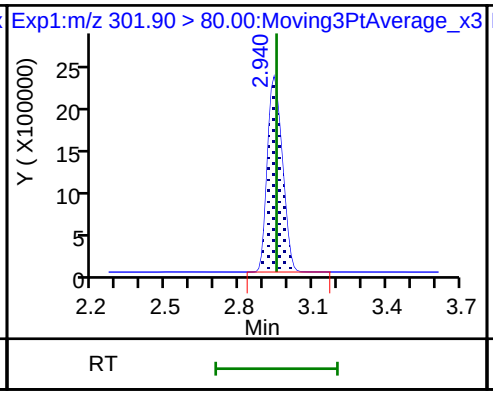
D 4 13C5 PFPeA



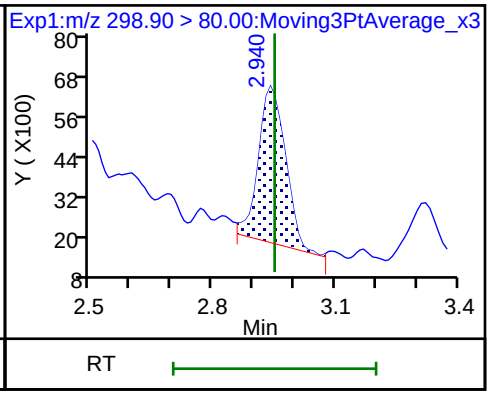
5 Perfluoropentanoic acid (M)



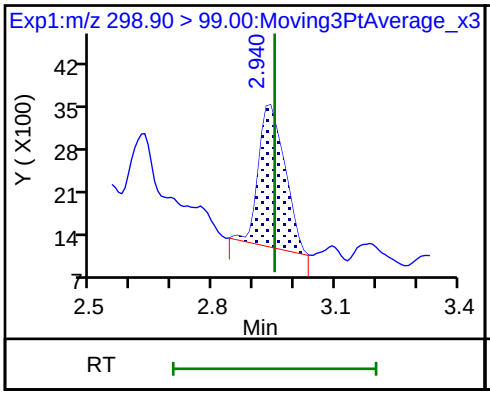
D 9 13C3 PFBS



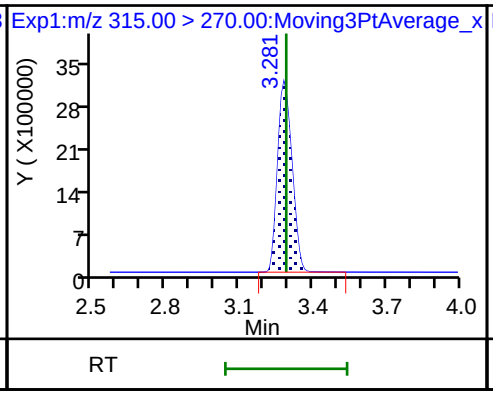
6 Perfluorobutanesulfonic acid



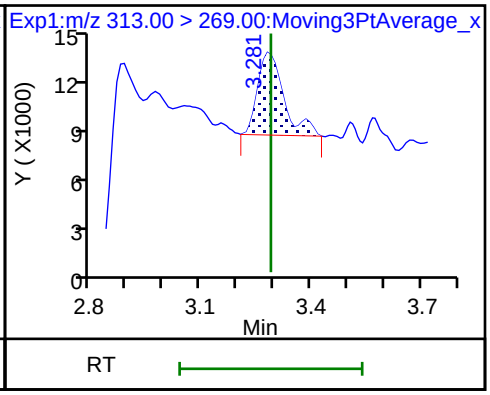
6 Perfluorobutanesulfonic acid



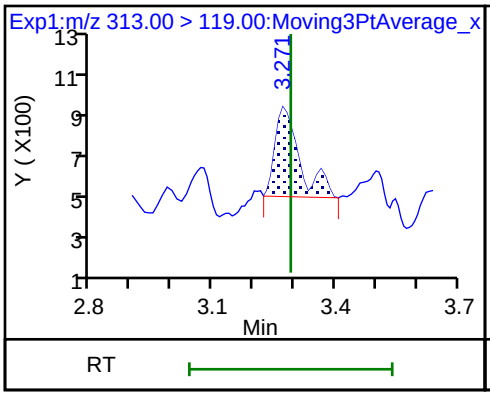
D 11 13C2 PFHxA



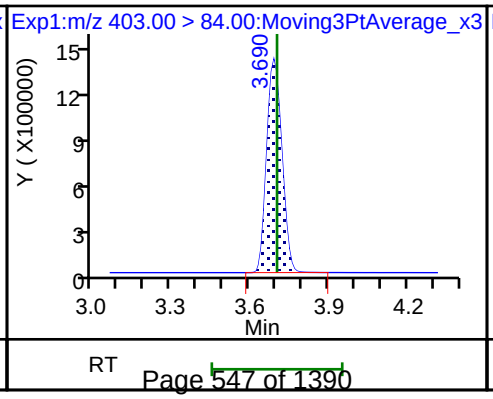
10 Perfluorohexanoic acid



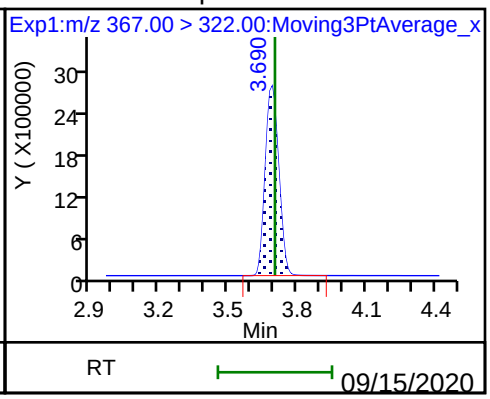
10 Perfluorohexanoic acid



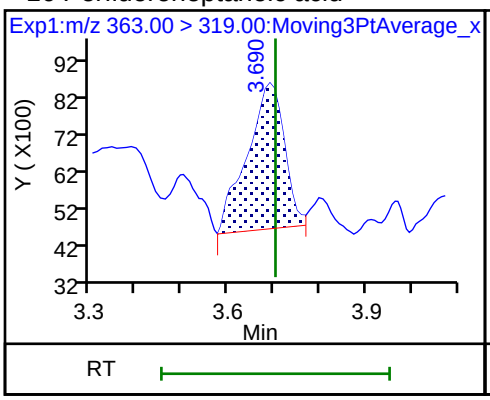
D 17 18O2 PFHxS



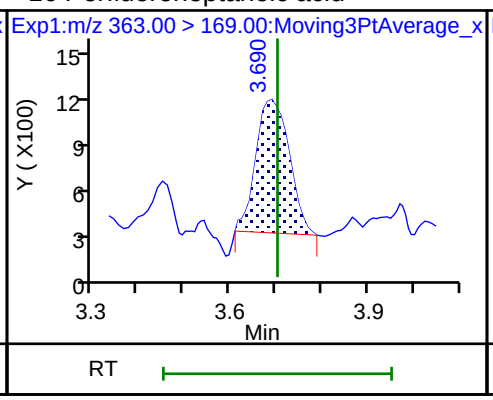
D 18 13C4 PFHpA



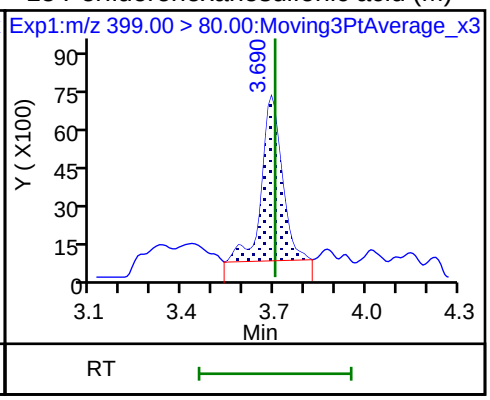
16 Perfluoroheptanoic acid



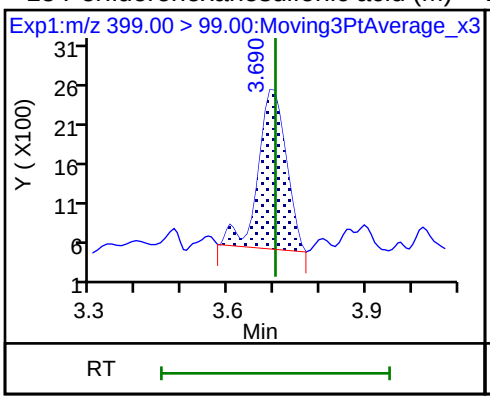
16 Perfluoroheptanoic acid



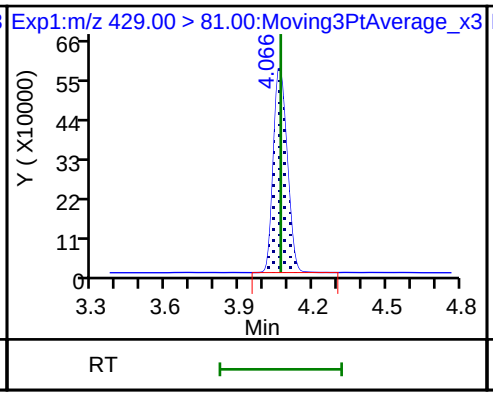
15 Perfluorohexanesulfonic acid (M)



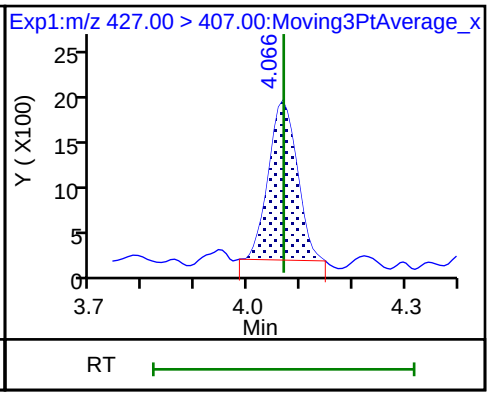
15 Perfluorohexanesulfonic acid (M)



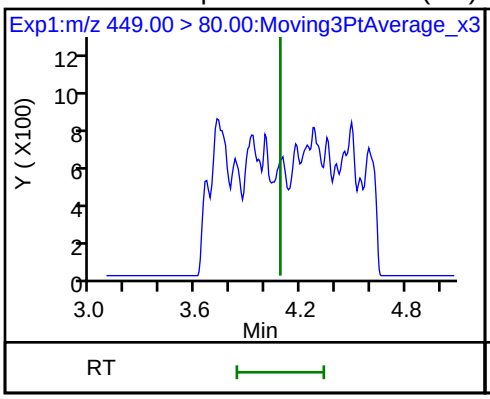
D 20 M2-6:2 FTS



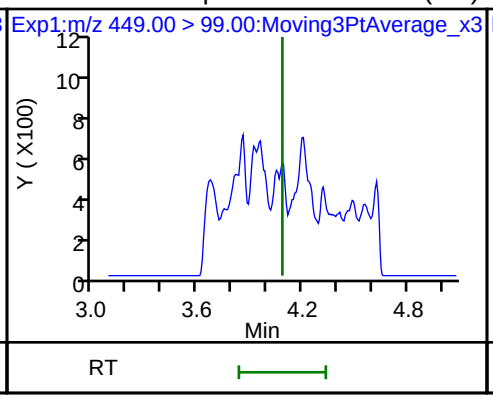
21 6:2 FTS

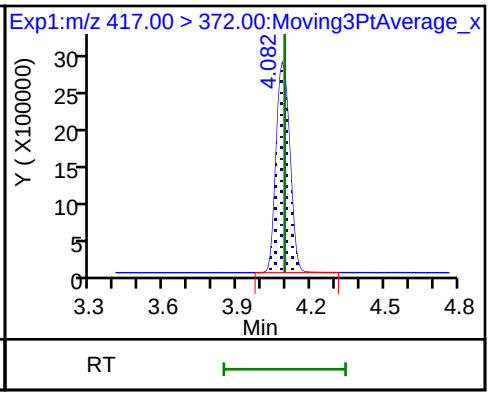


24 Perfluoroheptanesulfonic acid (ND)

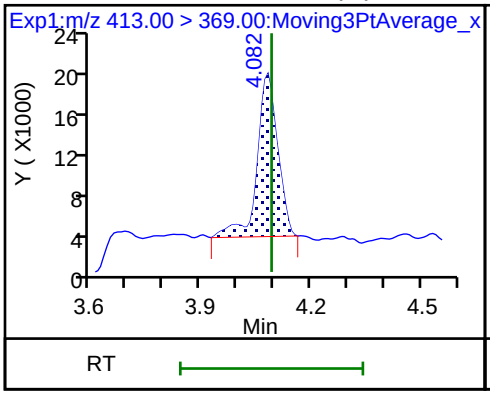


24 Perfluoroheptanesulfonic acid (ND) D 25 13C4 PFOA

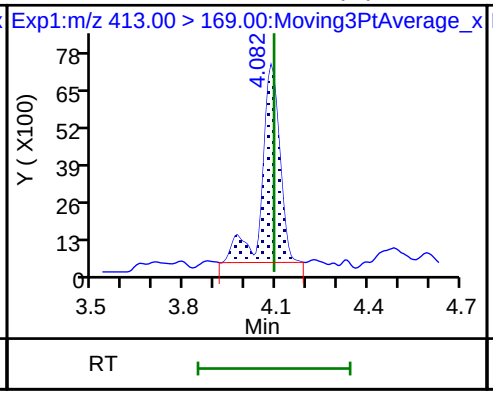




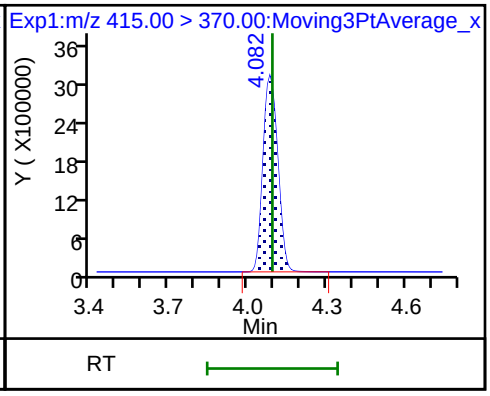
22 Perfluorooctanoic acid (M)



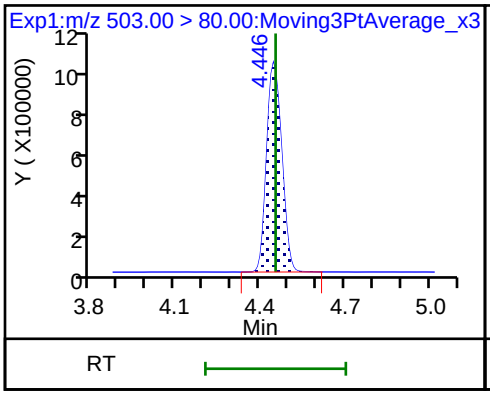
22 Perfluorooctanoic acid (M)



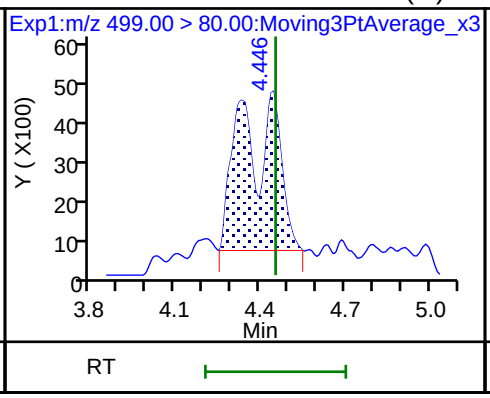
* 23 13C2 PFOA



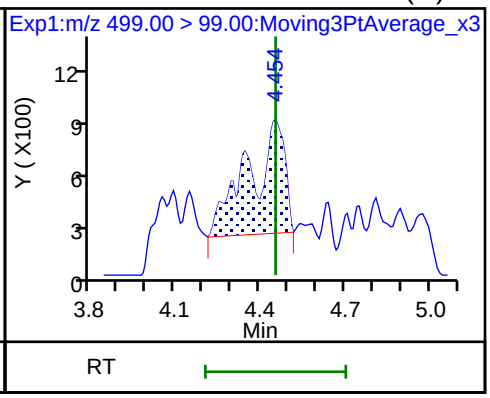
D 27 13C4 PFOS



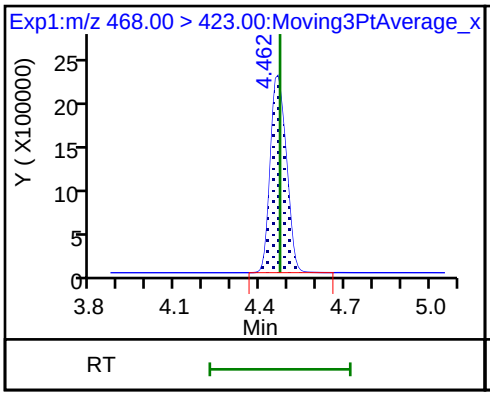
29 Perfluorooctanesulfonic acid (M)



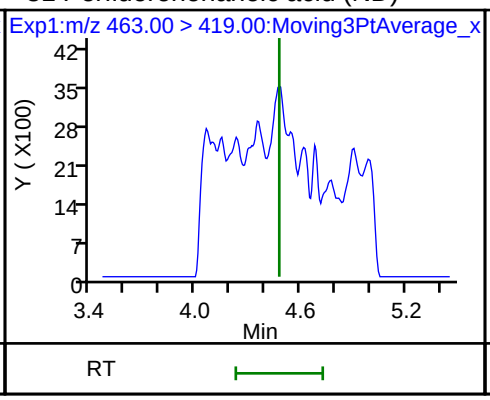
29 Perfluorooctanesulfonic acid (M)



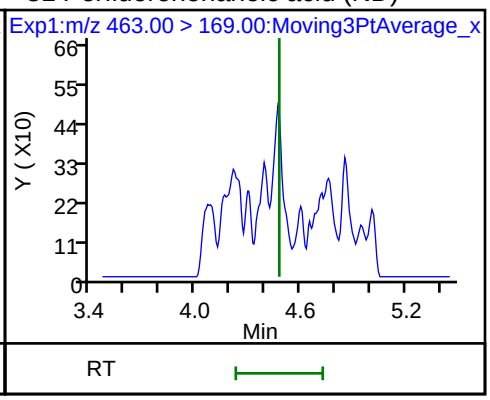
D 30 13C5 PFNA



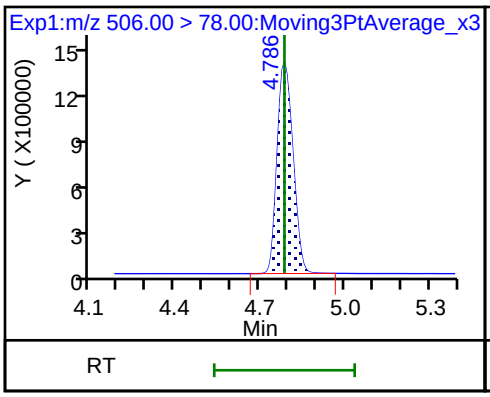
31 Perfluorononanoic acid (ND)



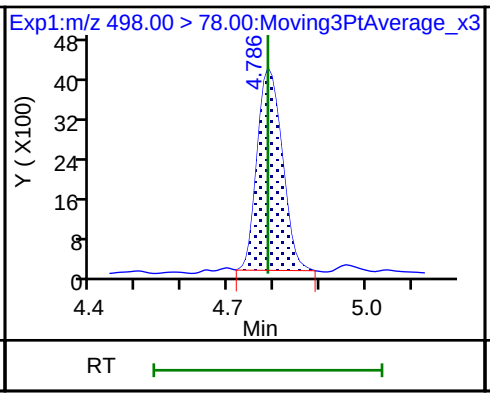
31 Perfluorononanoic acid (ND)



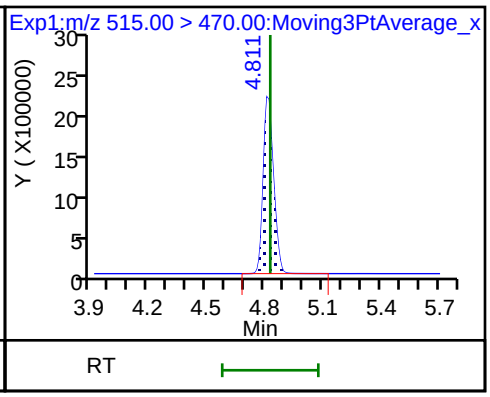
D 33 13C8 FOSA



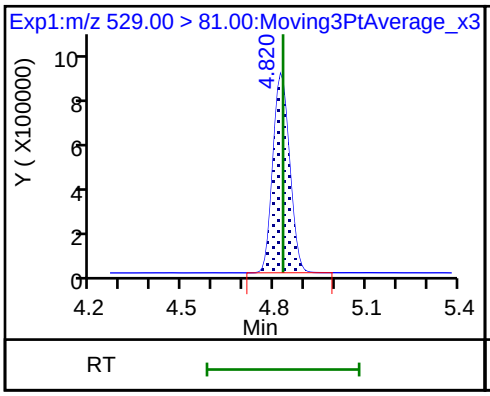
34 Perfluorooctanesulfonamide



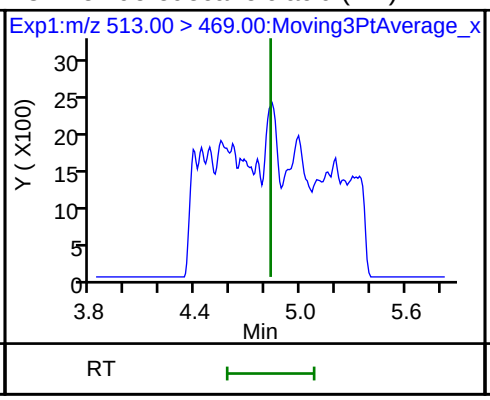
D 39 13C2 PFDA



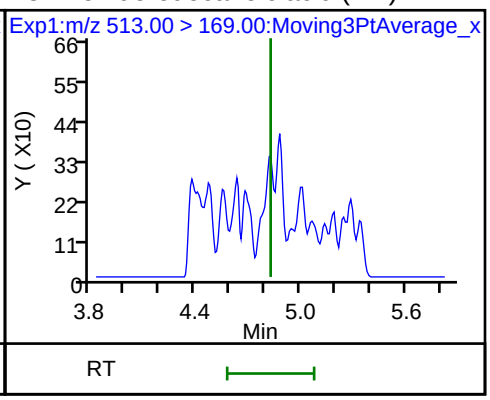
D 38 M2-8:2 FTS



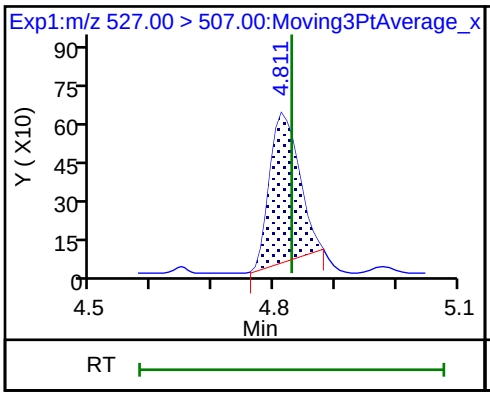
37 Perfluorodecanoic acid (ND)



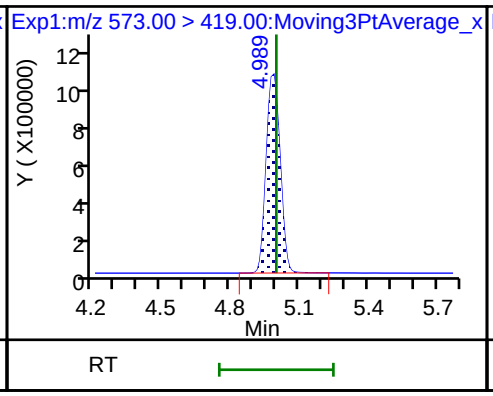
37 Perfluorodecanoic acid (ND)



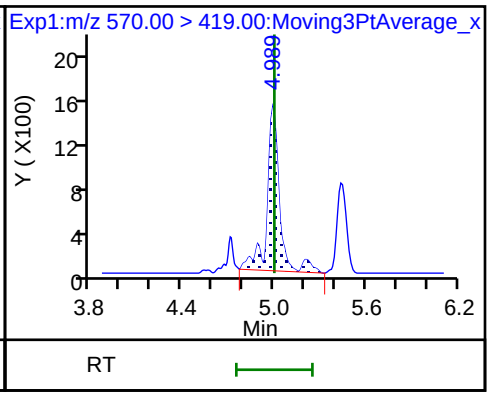
36 8:2 FTS



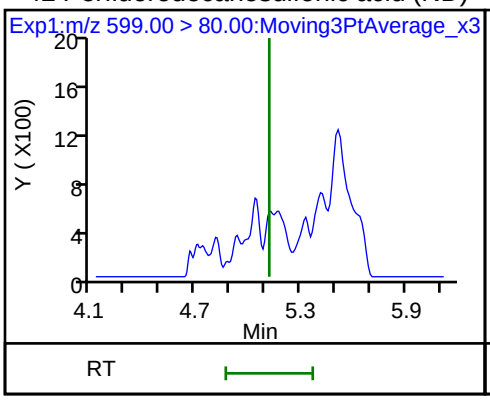
D 40 d3-NMeFOSAA



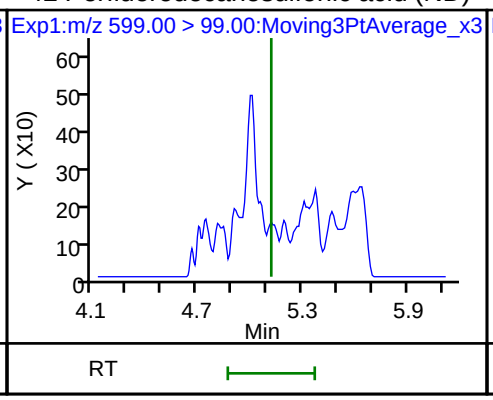
41 NMeFOSAA



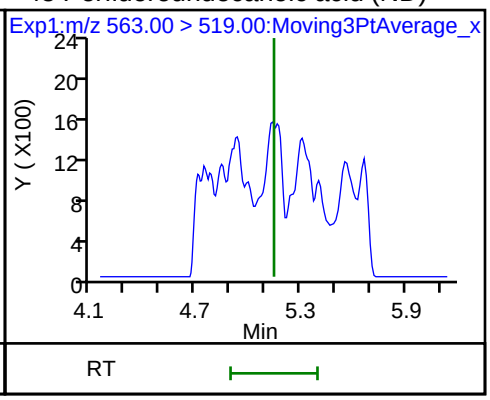
42 Perfluorodecanesulfonic acid (ND)



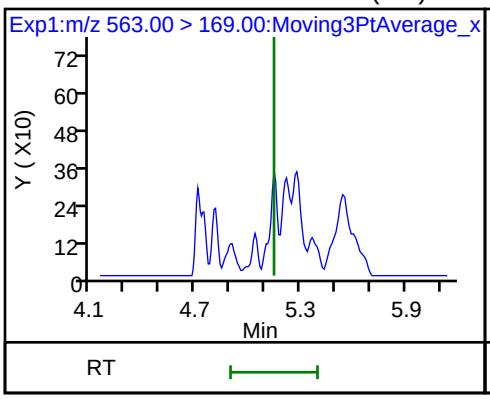
42 Perfluorodecanesulfonic acid (ND)



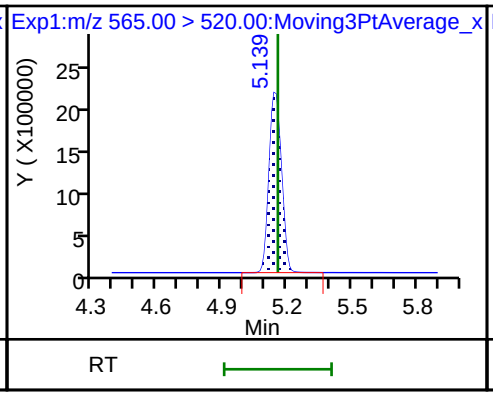
45 Perfluoroundecanoic acid (ND)



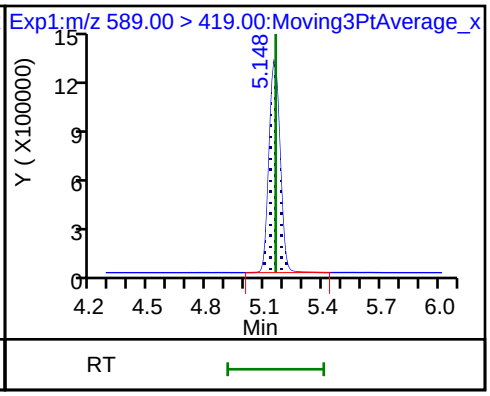
45 Perfluoroundecanoic acid (ND)



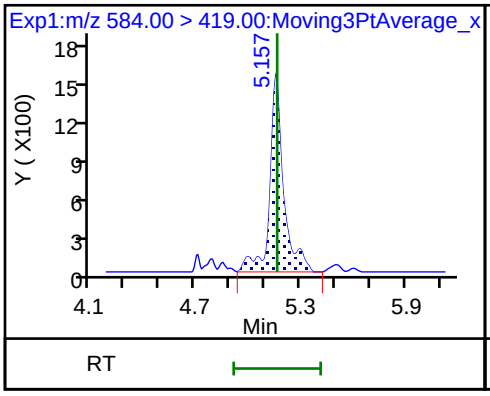
D 43 13C2 PFUnA



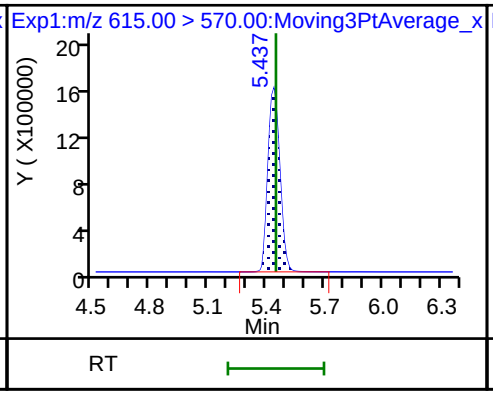
D 44 d5-NEtFOSAA



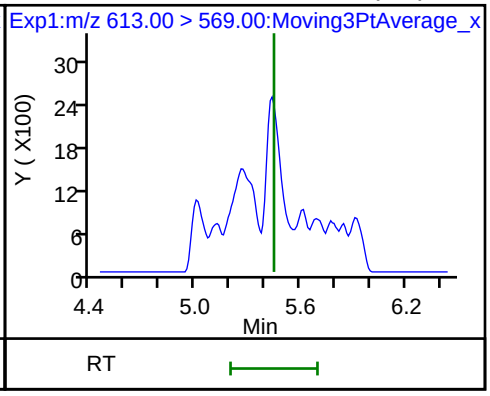
46 NEtFOSA



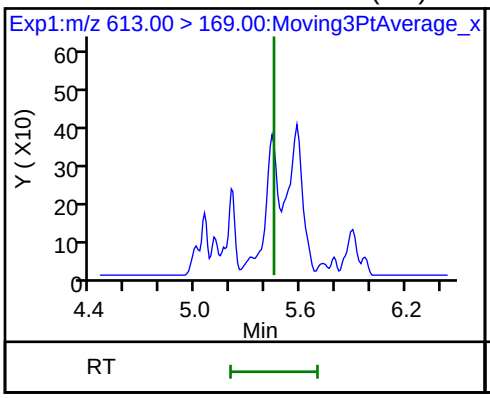
D 56 13C2 PFDoA



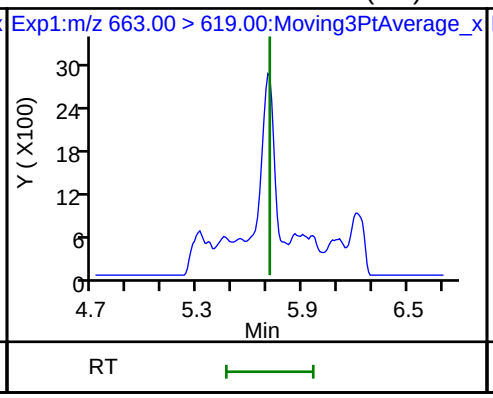
57 Perfluorododecanoic acid (ND)



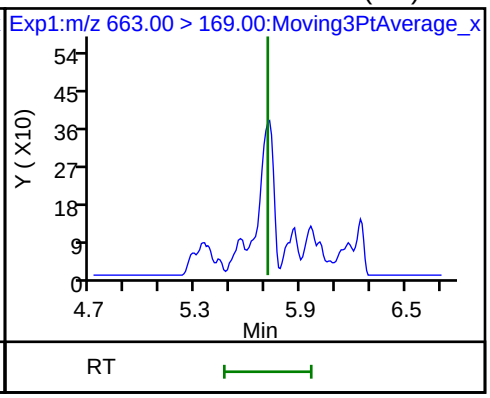
57 Perfluorododecanoic acid (ND)



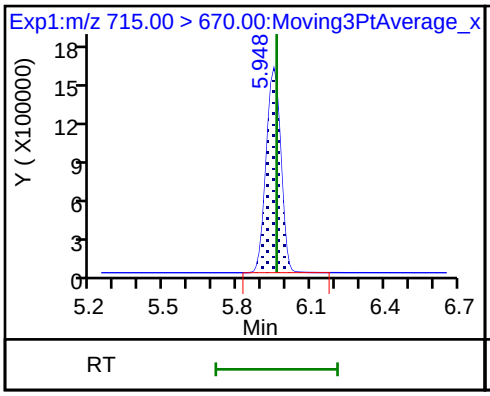
60 Perfluorotridecanoic acid (ND)



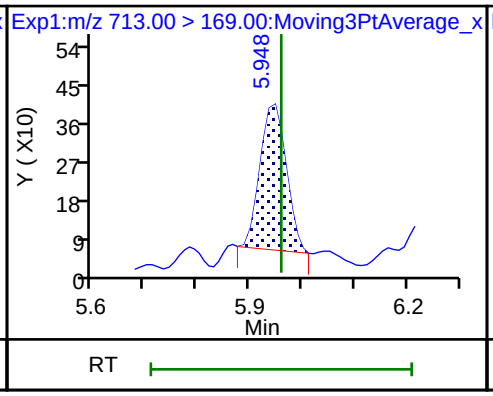
60 Perfluorotridecanoic acid (ND)



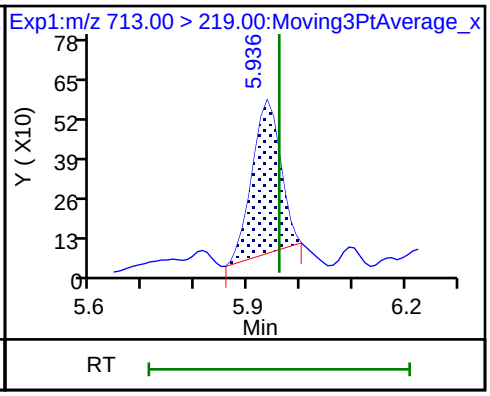
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid



62 Perfluorotetradecanoic acid



Eurofins TestAmerica, Sacramento

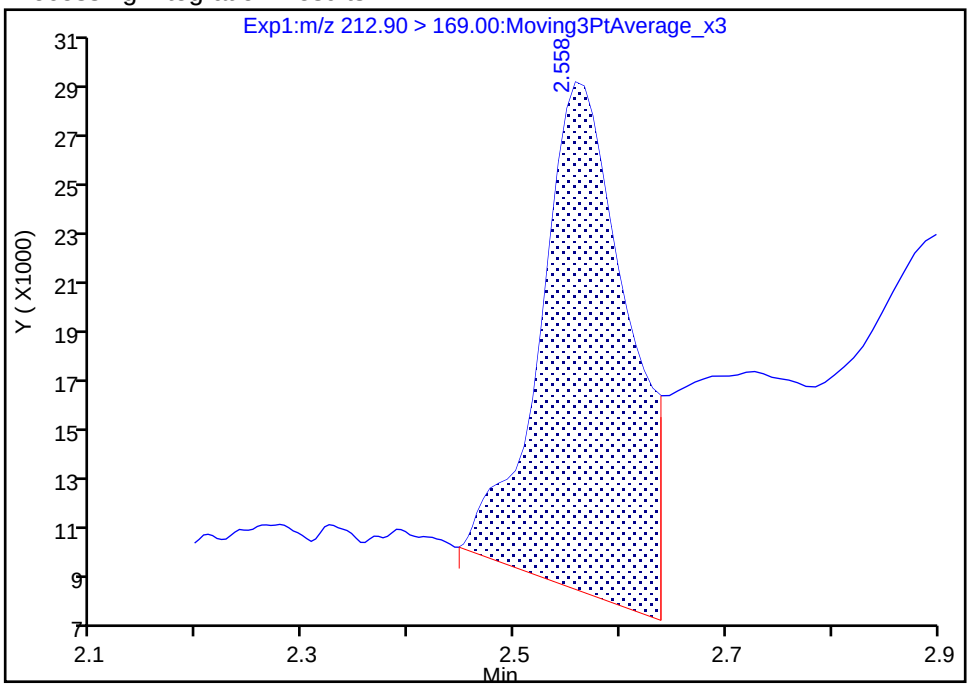
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

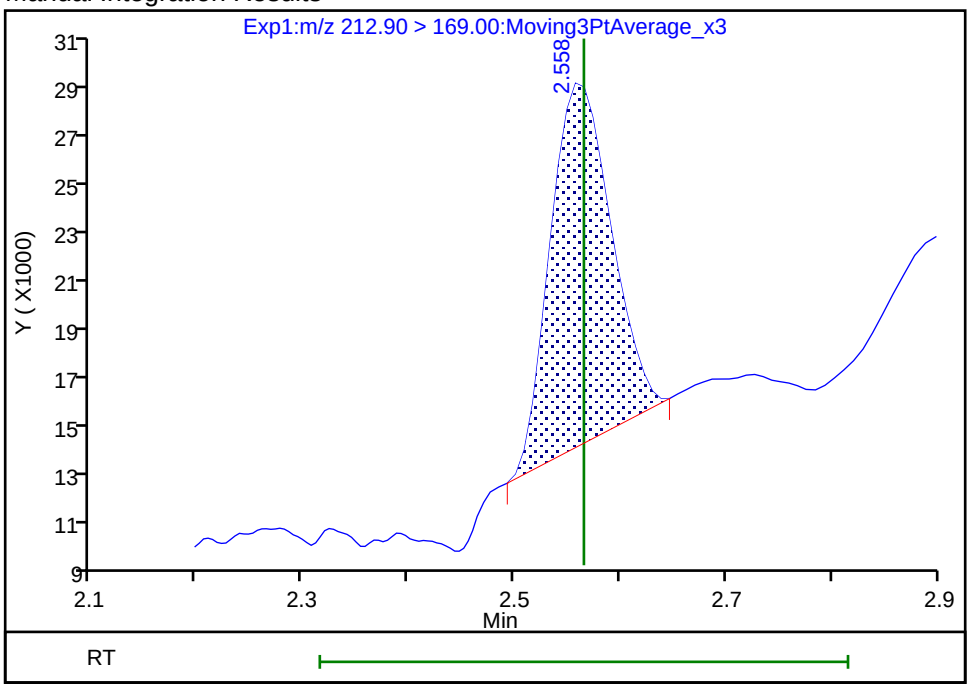
Processing Integration Results

RT: 2.56
Area: 115311
Amount: 0.030124
Amount Units: ng/ml



Manual Integration Results

RT: 2.56
Area: 57214
Amount: 0.014947
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:01:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

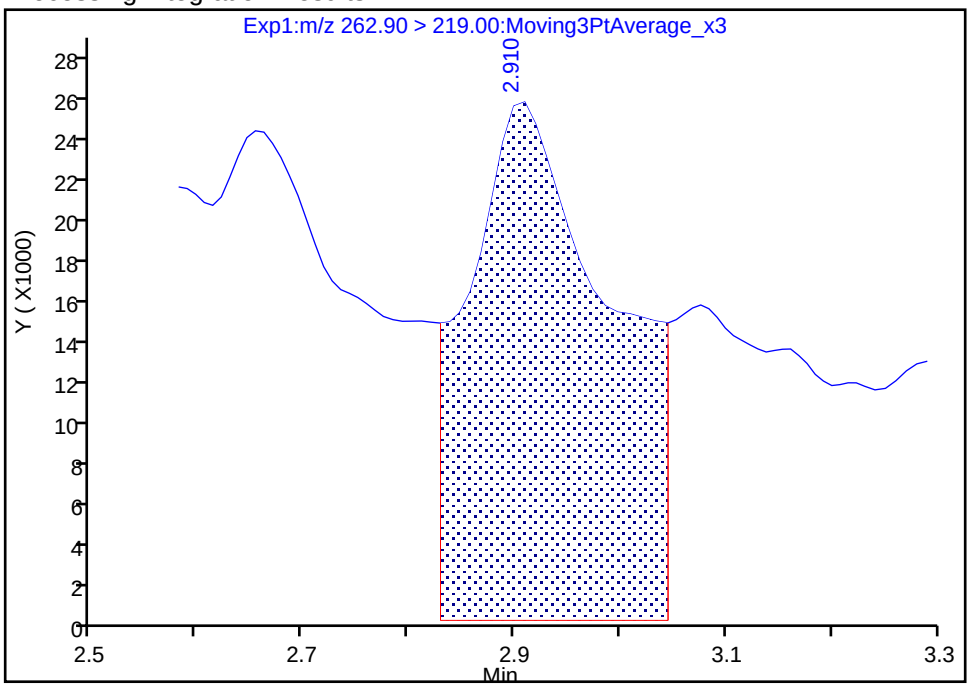
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

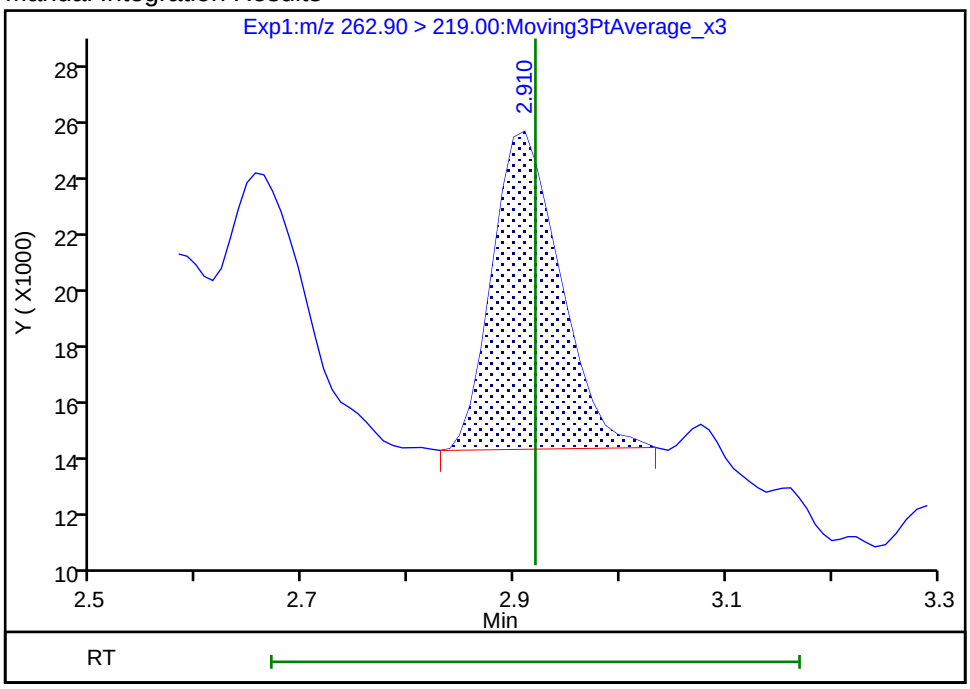
Processing Integration Results

RT: 2.91
Area: 233010
Amount: 0.051182
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 47487
Amount: 0.010431
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:00

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

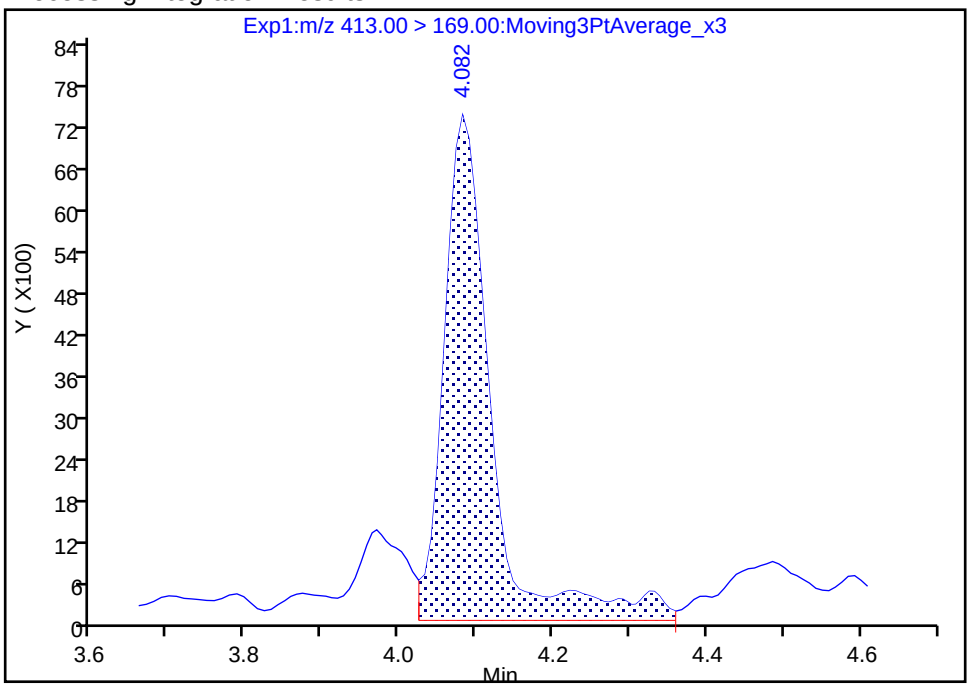
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

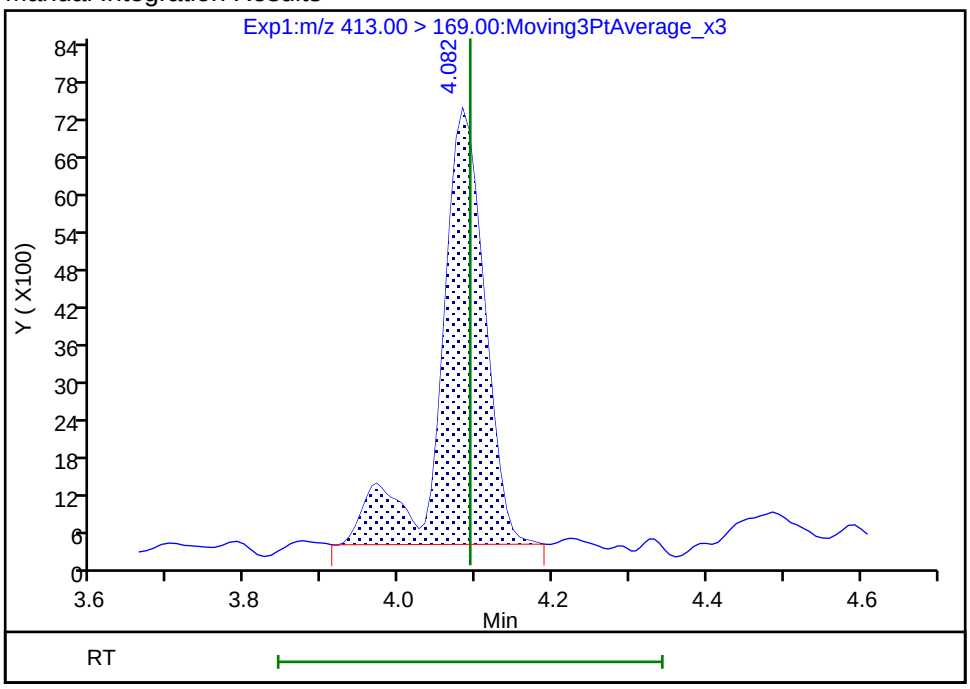
Processing Integration Results

RT: 4.08
Area: 31024
Amount: 0.040997
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 27878
Amount: 0.013732
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:28

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

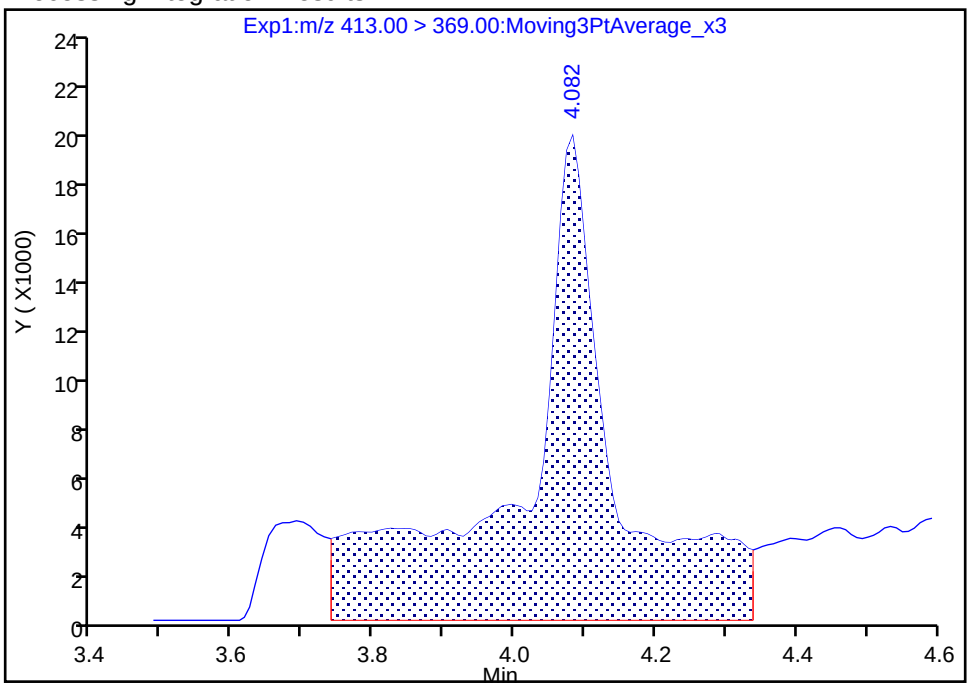
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

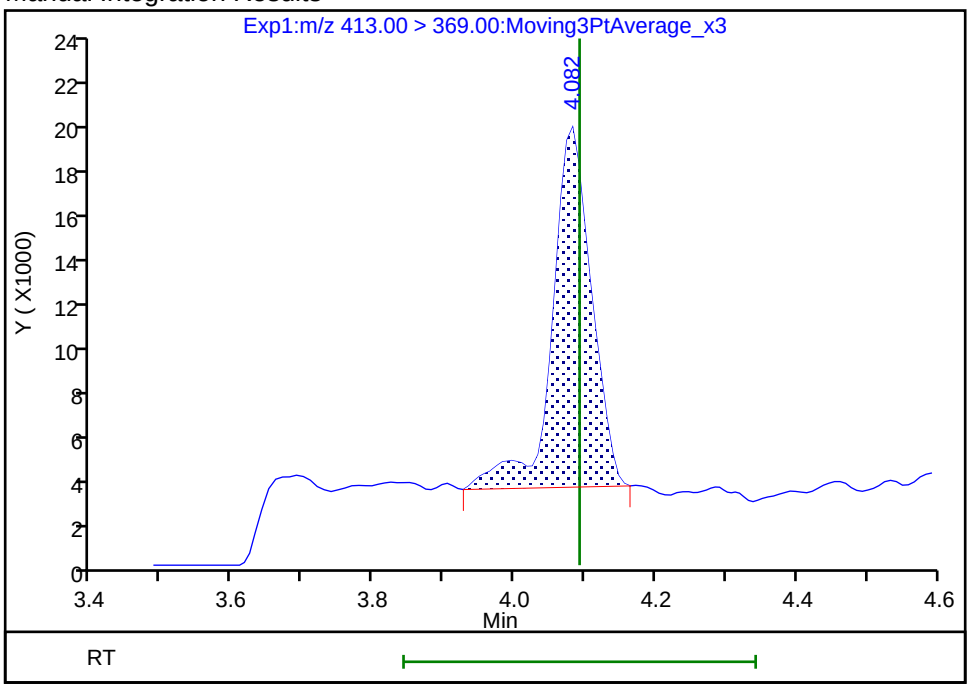
Processing Integration Results

RT: 4.08
Area: 185482
Amount: 0.040997
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 62126
Amount: 0.013732
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

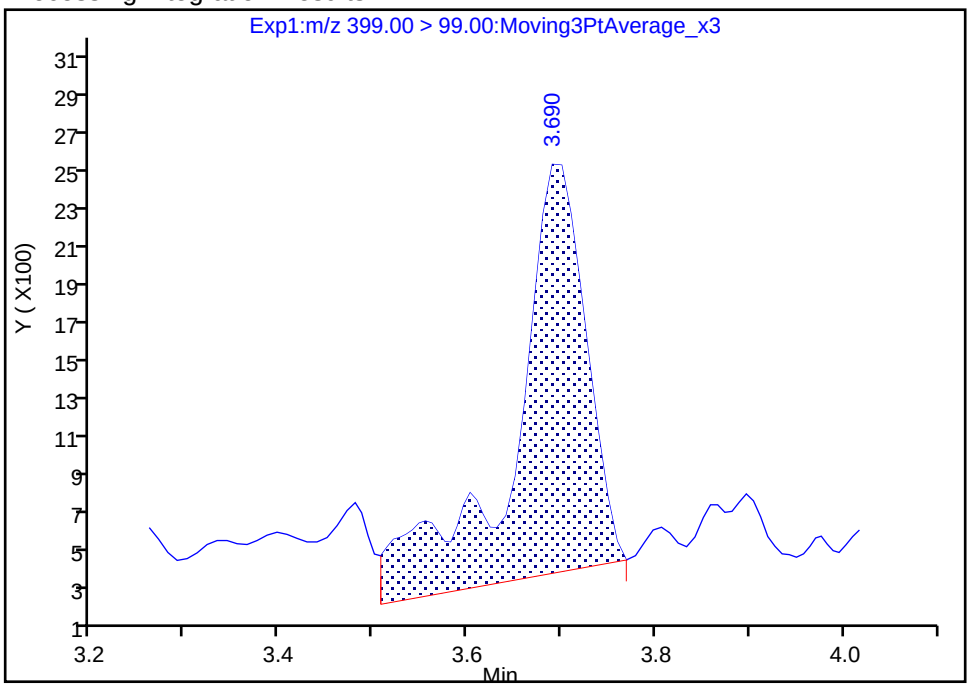
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

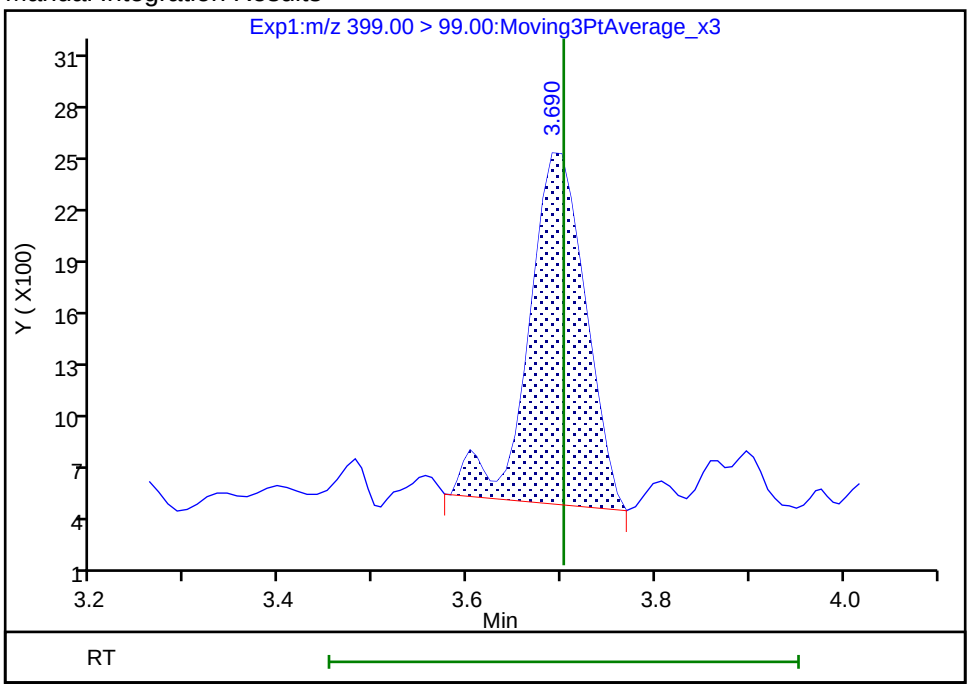
Processing Integration Results

RT: 3.69
Area: 11080
Amount: 0.017774
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 8257
Amount: 0.011098
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:15

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

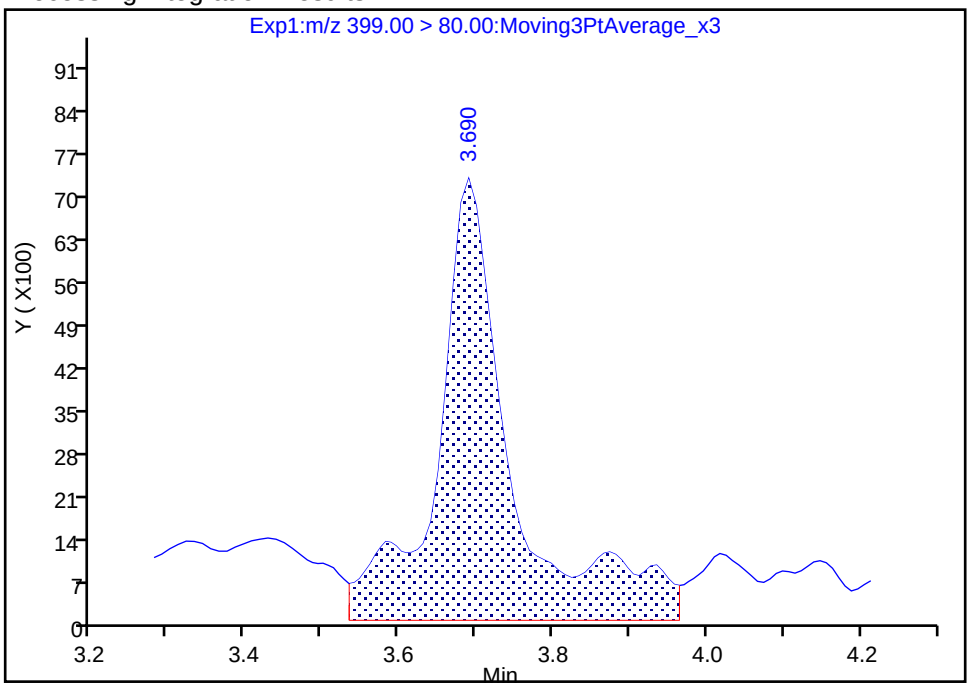
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

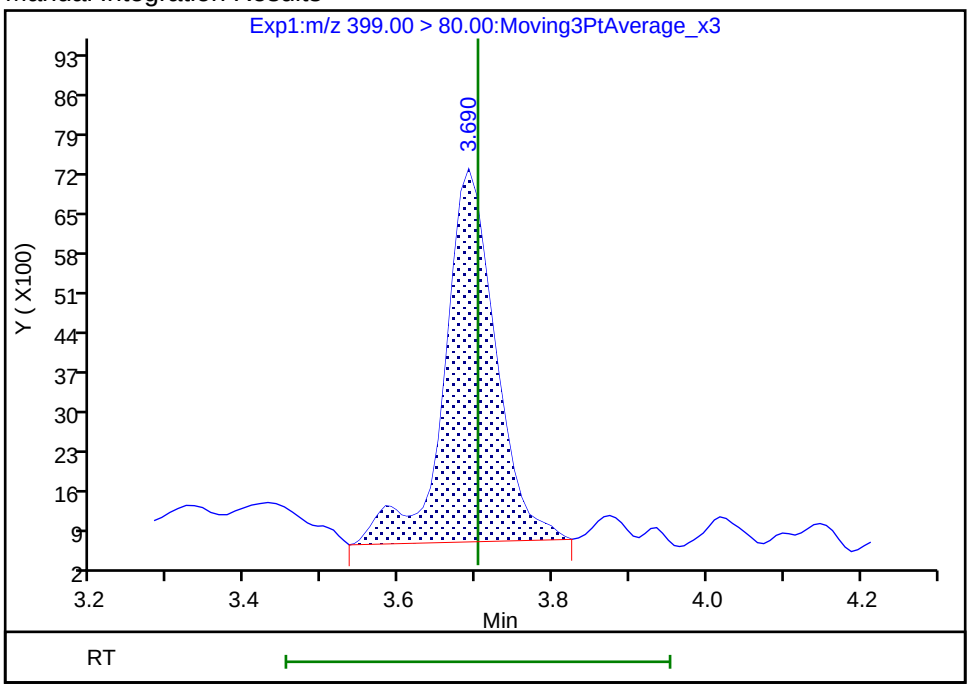
Processing Integration Results

RT: 3.69
Area: 48941
Amount: 0.017774
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 30559
Amount: 0.011098
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:20
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

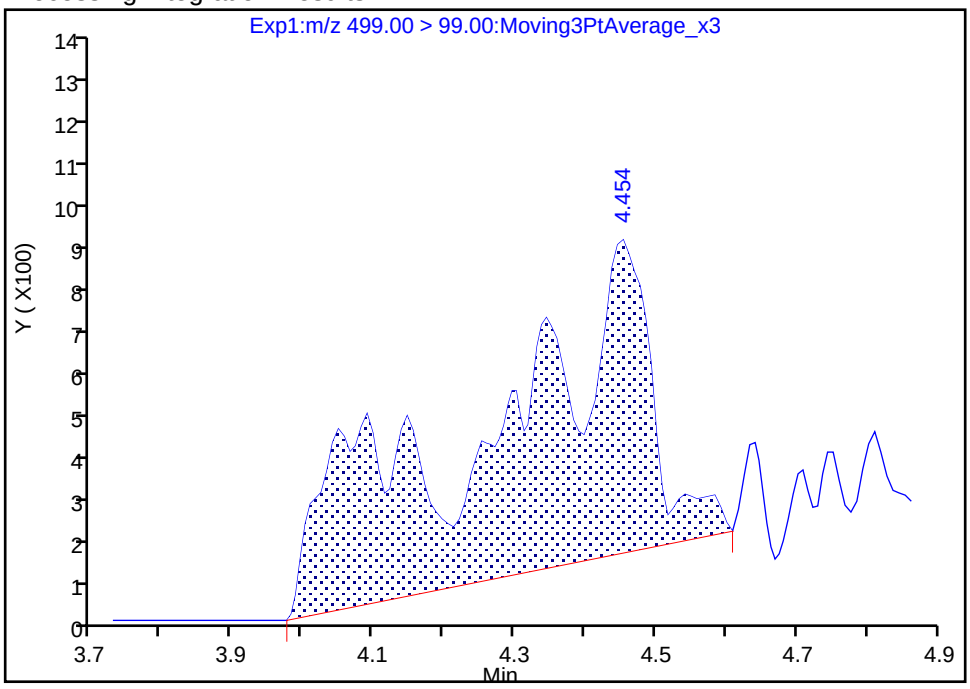
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

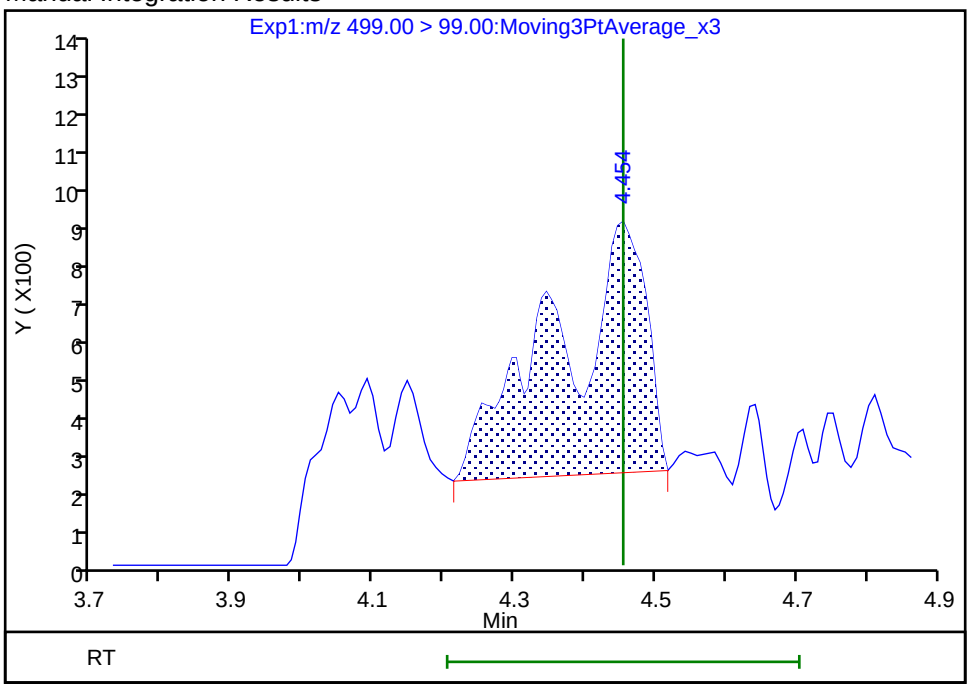
Processing Integration Results

RT: 4.45
Area: 11937
Amount: 0.026946
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 5618
Amount: 0.023346
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

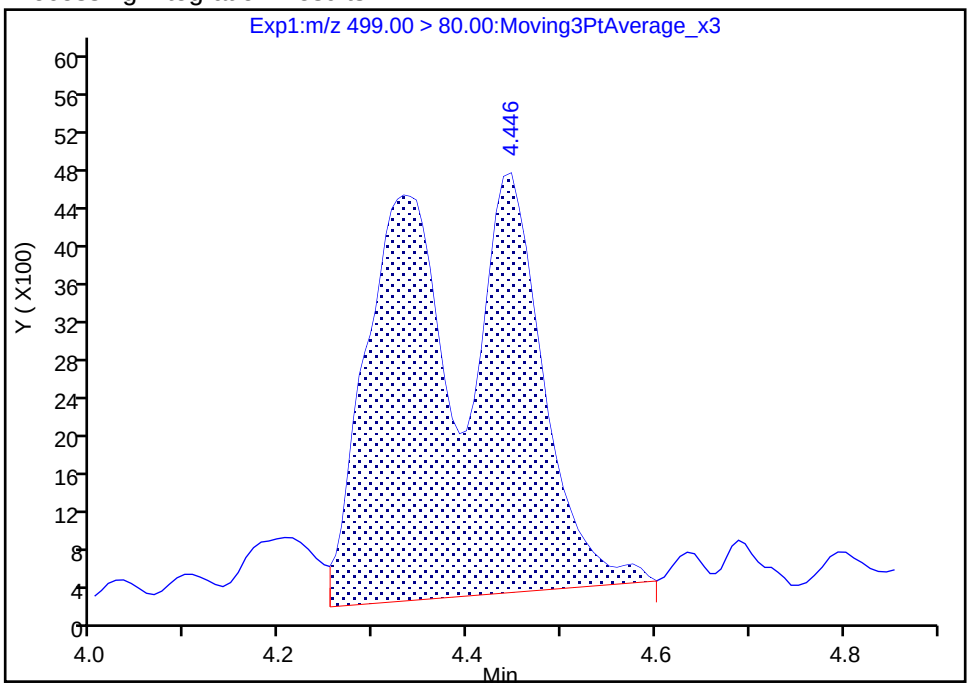
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_018.d				
Injection Date:	11-Sep-2020 13:00:08	Instrument ID:	A18		
Lims ID:	460-217547-E-3-A	Lab Sample ID:	320-217547-3		
Client ID:	MW-205				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	9	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

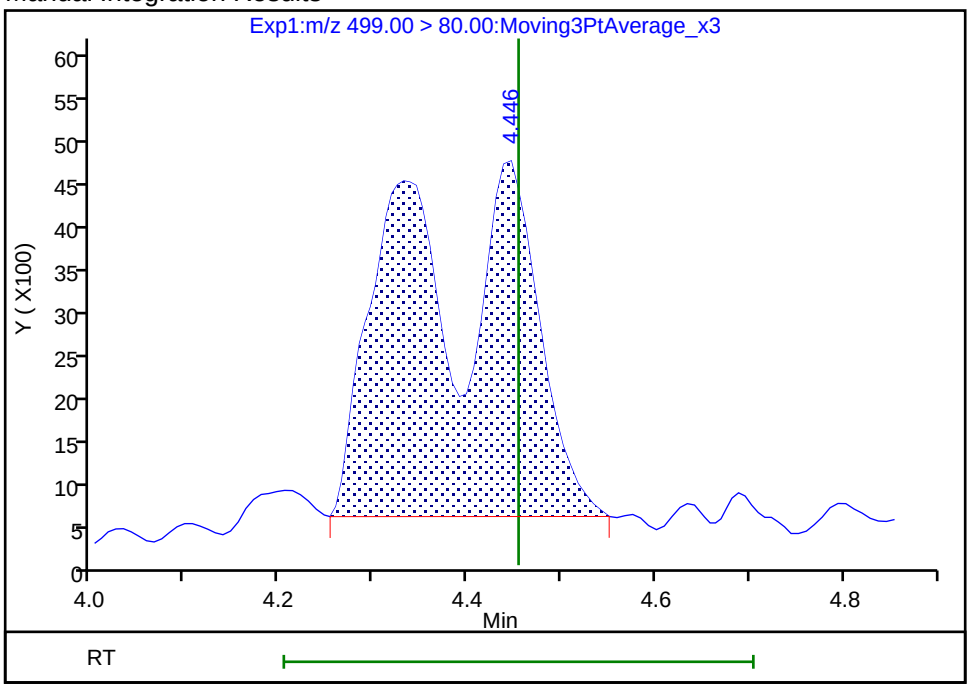
Processing Integration Results

RT: 4.45
Area: 43670
Amount: 0.026946
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 37835
Amount: 0.023346
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:02:57
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-206 Lab Sample ID: 460-217547-4

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_039.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 10:40

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 283.7(mL) Date Analyzed: 09/11/2020 15:25

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.79		1.76	0.31
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.83		1.76	0.43
307-24-4	Perfluorohexanoic acid (PFHxA)	2.28		1.76	0.51
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.47		1.76	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	12.1		1.76	0.75
375-95-1	Perfluorononanoic acid (PFNA)	0.75	J	1.76	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	0.45	J	1.76	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.97	U	1.76	0.97
307-55-1	Perfluorododecanoic acid (PFDoA)	0.48	U	1.76	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.15	U	1.76	1.15
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.76	0.26
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.06	J	1.76	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.93	B	1.76	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.43	J	1.76	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.7		1.76	0.48
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.28	U	1.76	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.66	J	1.76	0.31
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.73	U	17.6	2.73
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.67	U	17.6	1.67
27619-97-2	6:2 FTS	2.24	J	17.6	1.76
39108-34-4	8:2 FTS	1.76	U	17.6	1.76

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-206 Lab Sample ID: 460-217547-4

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_039.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 10:40

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 283.7(mL) Date Analyzed: 09/11/2020 15:25

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	57		25-150
STL01893	13C5 PFPeA	70		25-150
STL00993	13C2 PFHxA	78		25-150
STL01892	13C4 PFHpA	80		25-150
STL00990	13C4 PFOA	81		25-150
STL00995	13C5 PFNA	87		25-150
STL00996	13C2 PFDA	80		25-150
STL00997	13C2 PFUnA	75		25-150
STL00998	13C2 PFDoA	70		25-150
STL02116	13C2 PFTeDA	64		25-150
STL02337	13C3 PFBS	81		25-150
STL00994	18O2 PFHxS	86		25-150
STL00991	13C4 PFOS	82		25-150
STL01056	13C8 FOSA	74		25-150
STL02118	d3-NMeFOSAA	67		25-150
STL02117	d5-NEtFOSAA	71		25-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	93		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d
Lims ID: 460-217547-D-4-A
Client ID: MW-206
Sample Type: Client
Inject. Date: 11-Sep-2020 15:25:56 ALS Bottle#: 25 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-d-4-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTRLCMS02 Instrument ID: A9

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 18:26:57 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1003

First Level Reviewer: zibaa Date: 11-Sep-2020 17:37:15
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_036.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.889	1.893	-0.004	0.566	4831912	1.44		57.4	1893	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.889	1.893	-0.004	1.000	277429	0.1643			6.5	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.191	2.198	-0.007	0.656	4973896	1.75		70.1	1710	
3 Perfluoropentanoic acid										M
262.90 > 219.00	2.191	2.198	-0.007	1.000	104899	0.0518			1.1	M
D 6 13C3 PFBS										
301.90 > 80.00	2.216	2.224	-0.008	0.664	10535199	1.88		80.8	989	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.216	2.224	-0.008	1.000	135321	0.0299	Target=3.04		3.4	M
298.90 > 99.00	2.225	2.224	0.001	1.004	33583		4.03(1.52-4.56)		2.0	M
D 10 13C2 PFHxA										
315.00 > 270.00	2.548	2.547	0.001	0.763	5122301	1.94		77.7	2370	
11 Perfluorohexanoic acid										M
313.00 > 269.00	2.548	2.547	0.001	1.000	110711	0.0648	Target=10.29		3.4	M
313.00 > 119.00	2.548	2.547	0.001	1.000	12762		8.68(5.15-15.44)		5.4	
D 15 13C4 PFHpA										
367.00 > 322.00	2.935	2.940	-0.005	0.879	5164214	2.01		80.4	3416	
D 17 18O2 PFHxS										
403.00 > 84.00	2.941	2.940	0.001	0.881	5452499	2.03		86.0	5424	
18 Perfluoroheptanoic acid										M
363.00 > 319.00	2.935	2.940	-0.005	1.000	160568	0.0701	Target=3.69		7.2	M
363.00 > 169.00	2.935	2.940	-0.005	1.000	44056		3.64(1.85-5.54)		29.2	M
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.941	2.946	-0.005	1.000	148787	0.0547	Target=3.51		18.4	M
399.00 > 99.00	2.941	2.946	-0.005	1.000	41641		3.57(1.76-5.27)		15.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	3.318	3.324	-0.006	0.994	1215092	2.53		107	645	
22 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.318	3.324	-0.006	1.000	50064	0.0635			40.1	M
23 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.332	3.338	-0.006	0.897	25792	0.0121	Target=3.71		4.9	M
449.00 > 99.00	3.339	3.338	0.001	0.899	7517		3.43(1.85-5.56)		9.4	
D 26 13C4 PFOA										
417.00 > 372.00	3.339	3.345	-0.006	1.000	4851223	2.02		80.6	4748	
24 Perfluorooctanoic acid										M
413.00 > 369.00	3.339	3.345	-0.006	1.000	716648	0.3424	Target=2.51		39.0	M
413.00 > 169.00	3.339	3.345	-0.006	1.000	320090		2.24(1.26-3.77)		179	M
* 25 13C2 PFOA										
415.00 > 370.00	3.339	3.345	-0.006		6232796	2.50			5524	
D 31 13C4 PFOS										
503.00 > 80.00	3.714	3.720	-0.006	1.112	5507063	1.97		82.3	1346	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.714	3.720	-0.006	1.000	2632819	1.10	Target=4.39		247	
499.00 > 99.00	3.714	3.720	-0.006	1.000	556138		4.73(2.19-6.58)		672	M
D 29 13C5 PFNA										
468.00 > 423.00	3.730	3.735	-0.005	1.117	4520717	2.16		86.6	4607	
30 Perfluorononanoic acid										M
463.00 > 419.00	3.730	3.735	-0.005	1.000	38257	0.0213	Target=4.20		9.1	
463.00 > 169.00	3.722	3.735	-0.013	0.998	6580		5.81(2.10-6.30)		7.9	M
D 36 13C8 FOSA										
506.00 > 78.00	4.069	4.074	-0.005	1.219	2429277	1.85		73.8	2915	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.078	4.074	0.004	1.002	50890	0.0188			7.6	
D 33 13C2 PFDA										
515.00 > 470.00	4.086	4.092	-0.006	1.224	5317300	2.01		80.2	4518	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.095	4.092	0.003	1.002	26963	0.0127	Target=14.22		7.4	
513.00 > 169.00	4.095	4.092	0.003	1.002	1873		14.40(7.11-21.34)		7.9	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.095	4.092	0.003	1.000	1168	0.001655			12.3	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.095	4.092	0.003	1.227	1311645	2.23		93.2	808	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.257	4.253	0.004	1.275	2192600	1.66		66.6	3473	
D 46 13C2 PFUnA										
565.00 > 520.00	4.413	4.409	0.004	1.322	3827908	1.87		74.9	5388	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.418	-0.005	1.322	1569398	1.78		71.1	2558	
44 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.422	4.426	-0.004	1.002	4690	0.009210			15.6	M
D 56 13C2 PFDoA										
615.00 > 570.00	4.698	4.704	-0.006	1.407	3500442	1.74		69.8	4666	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 62 13C2 PFTeDA										
715.00 > 670.00	5.207	5.211	-0.004	1.559	2240474	1.60		64.0	4132	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 18:27:10 Chrom Revision: 2.3 11-Sep-2020 14:12:18

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d

Injection Date: 11-Sep-2020 15:25:56 Instrument ID: A9

Lims ID: 460-217547-D-4-A Lab Sample ID: 320-217547-4

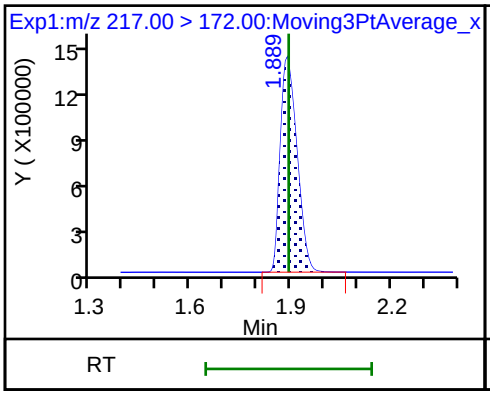
Client ID: MW-206

Operator ID: SACINSTRLCMS02 ALS Bottle#: 25 Worklist Smp#: 16

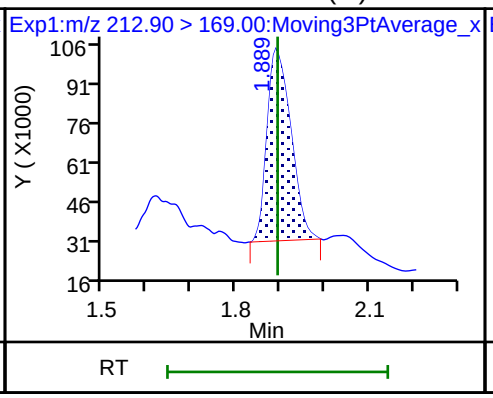
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

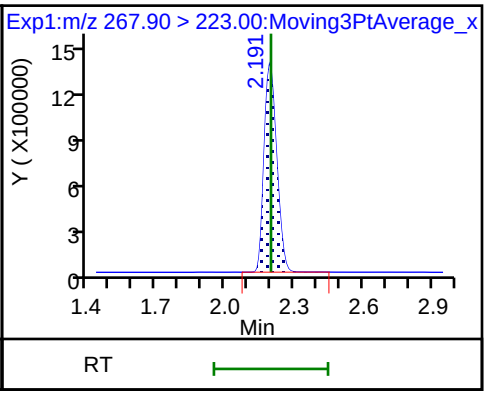
D 1 13C4 PFBA



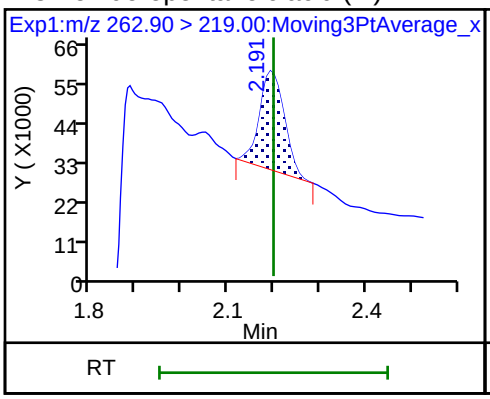
2 Perfluorobutanoic acid (M)



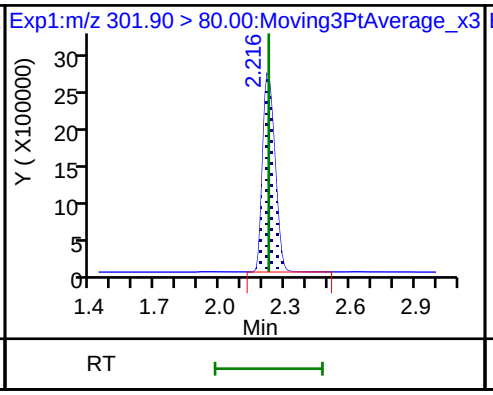
D 4 13C5 PFPeA



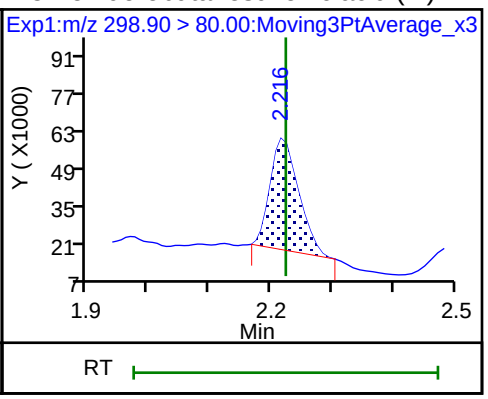
3 Perfluoropentanoic acid (M)



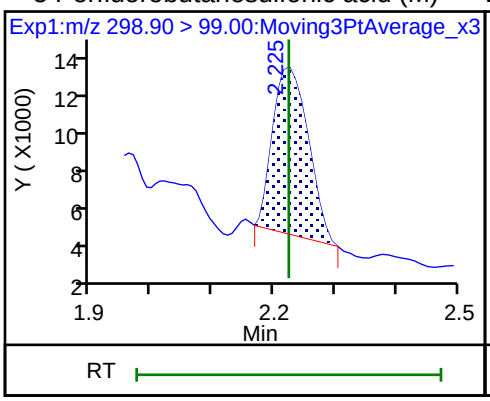
D 6 13C3 PFBS



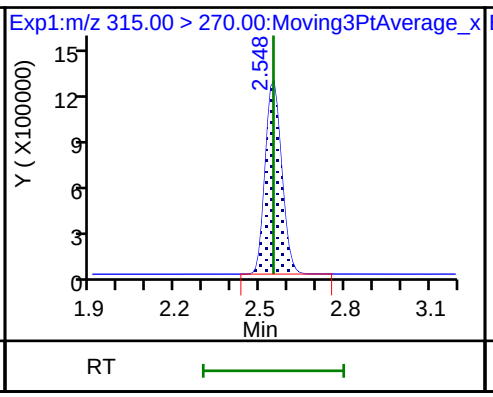
5 Perfluorobutanesulfonic acid (M)



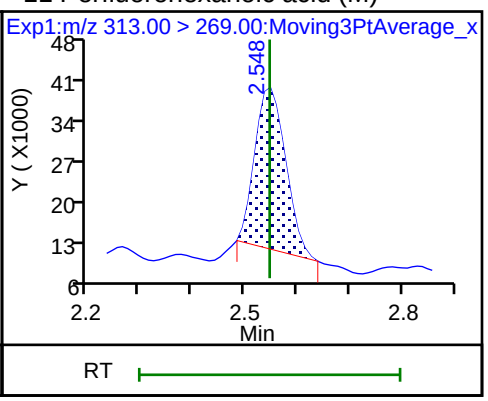
5 Perfluorobutanesulfonic acid (M)



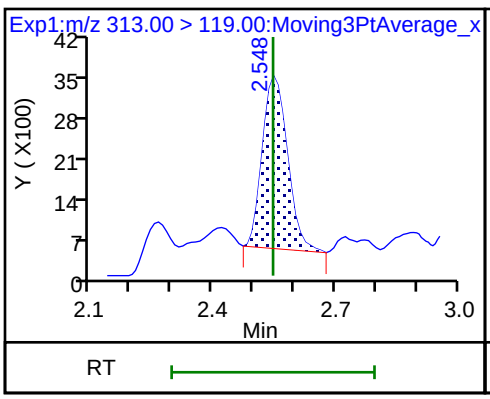
D 10 13C2 PFHxA



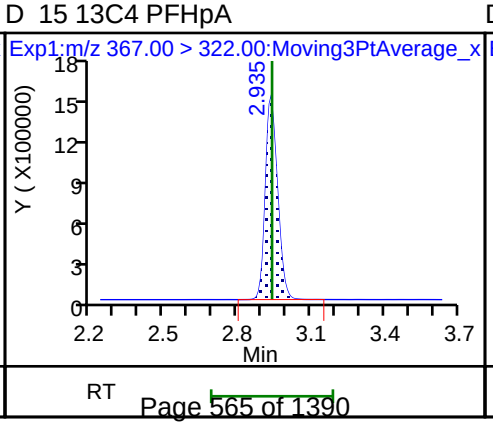
11 Perfluorohexanoic acid (M)



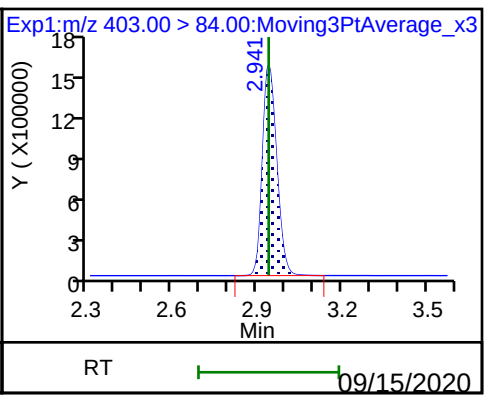
11 Perfluorohexanoic acid



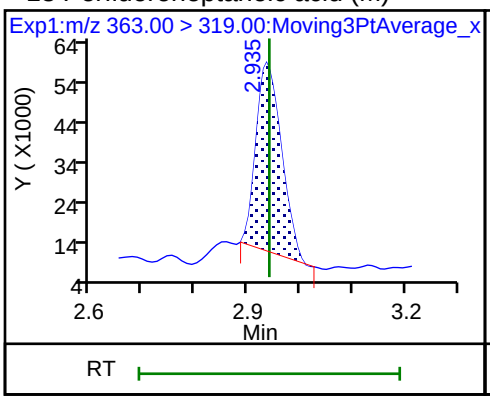
D 15 13C4 PFHpA



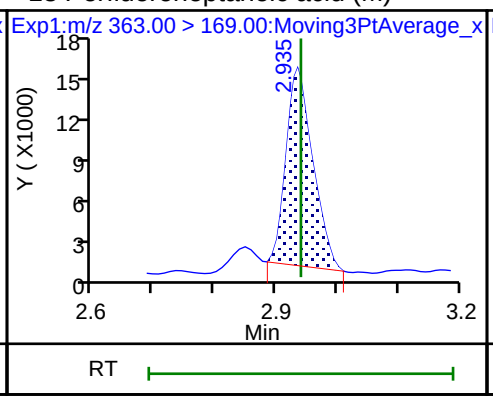
D 17 18O2 PFHxS



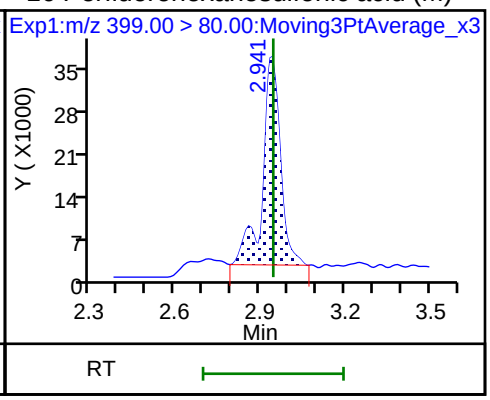
18 Perfluoroheptanoic acid (M)



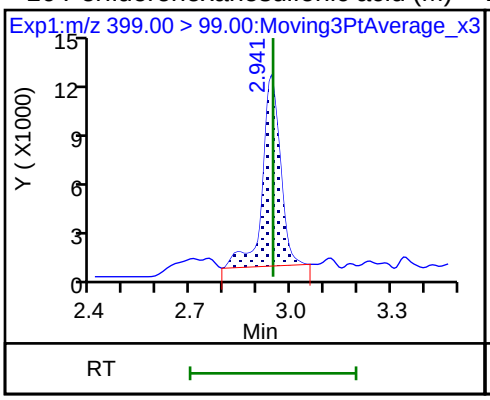
18 Perfluoroheptanoic acid (M)



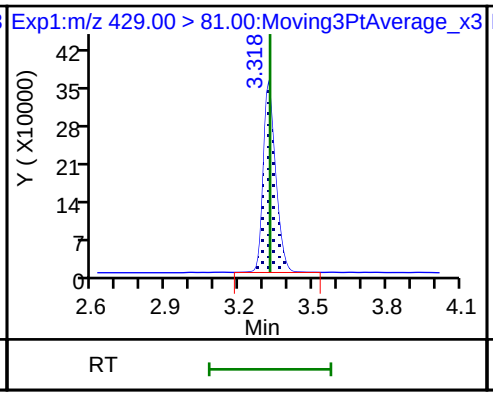
16 Perfluorohexanesulfonic acid (M)



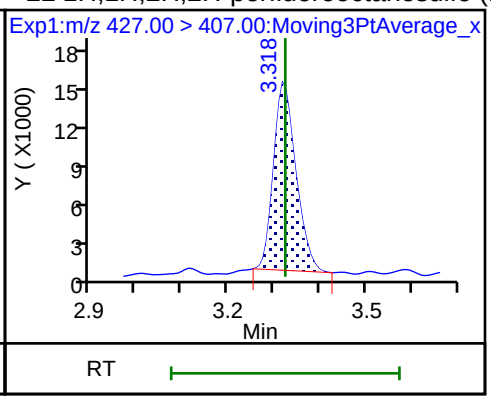
16 Perfluorohexanesulfonic acid (M)



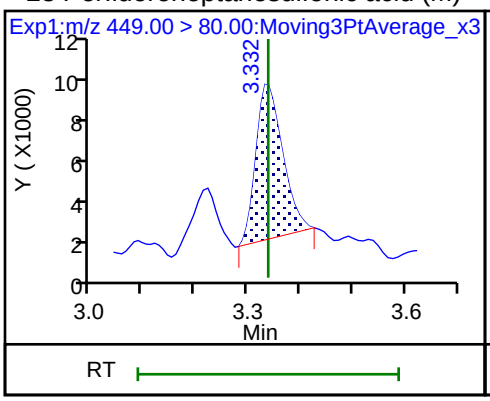
D 20 M2-6:2 FTS



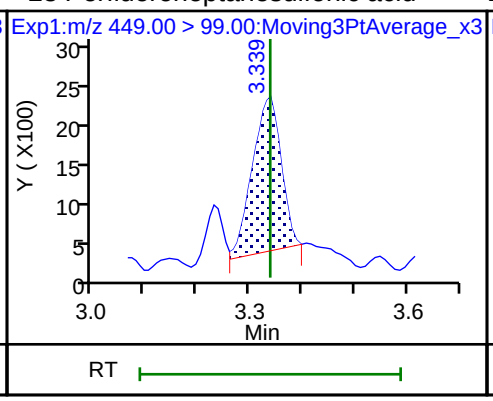
22 1H,1H,2H,2H-perfluorooctanesulfo (M)



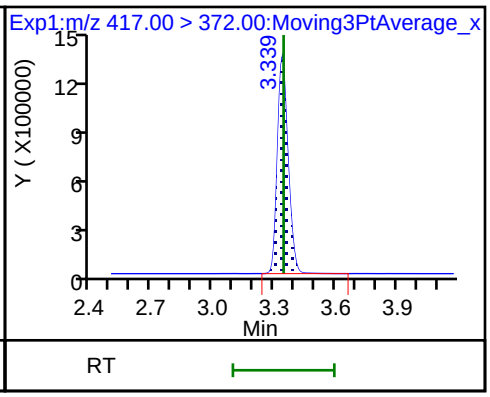
23 Perfluoroheptanesulfonic acid (M)



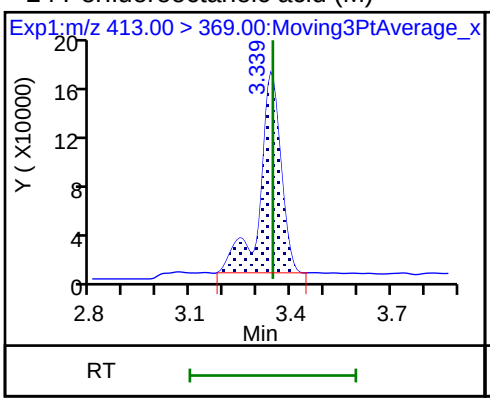
23 Perfluoroheptanesulfonic acid



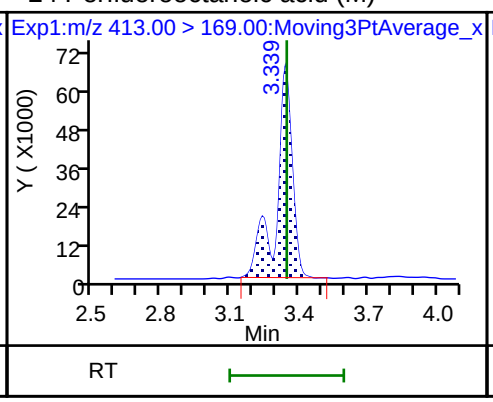
D 26 13C4 PFOA



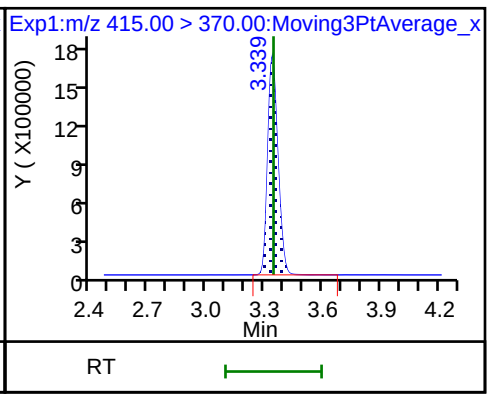
24 Perfluorooctanoic acid (M)



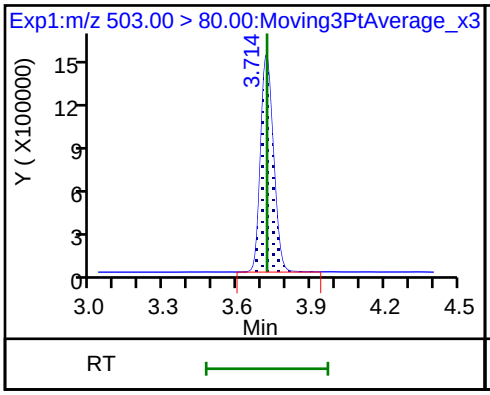
24 Perfluorooctanoic acid (M)



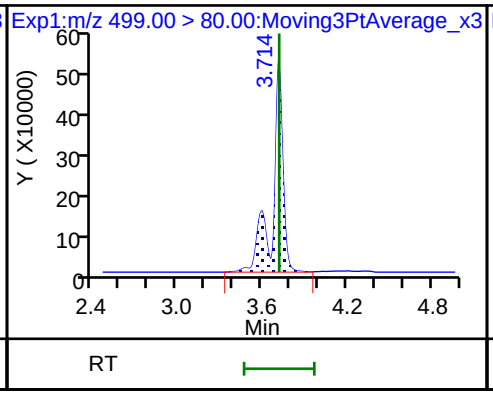
* 25 13C2 PFOA



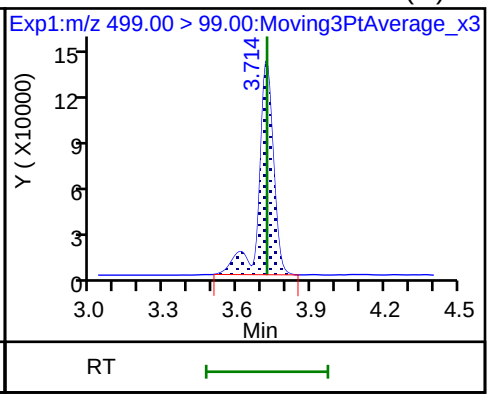
D 31 13C4 PFOS



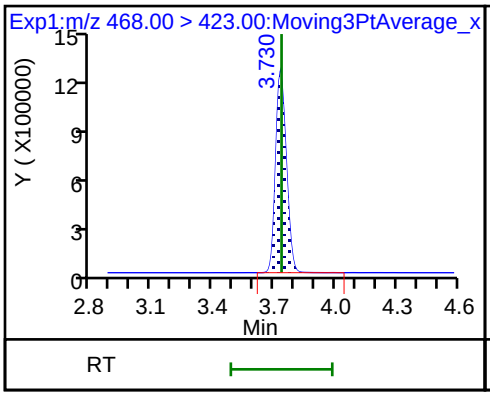
28 Perfluorooctanesulfonic acid



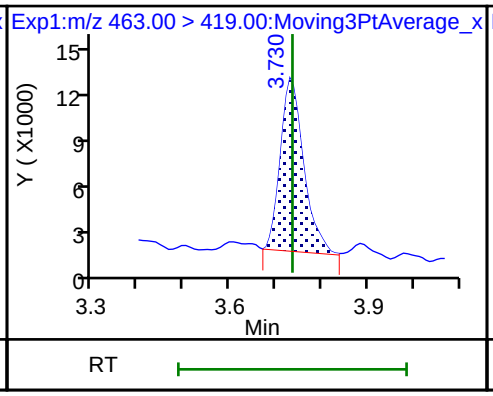
28 Perfluorooctanesulfonic acid (M)



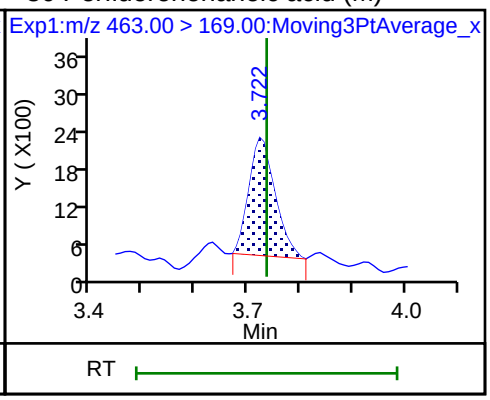
D 29 13C5 PFNA



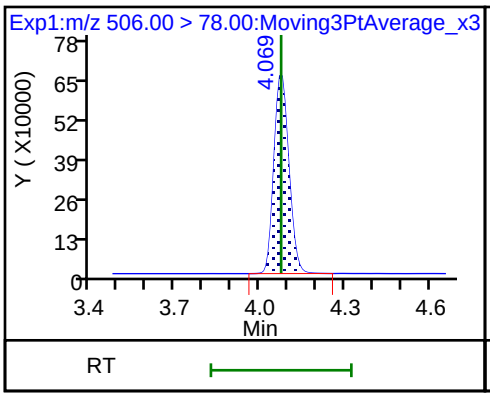
30 Perfluorononanoic acid



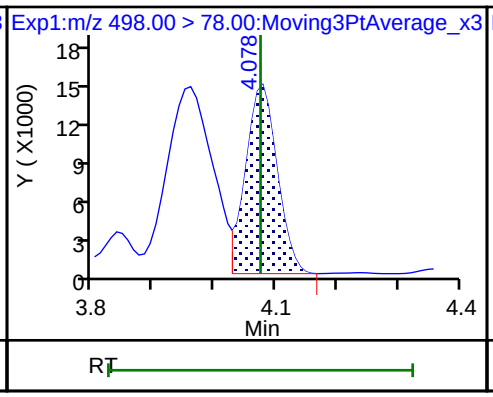
30 Perfluorononanoic acid (M)



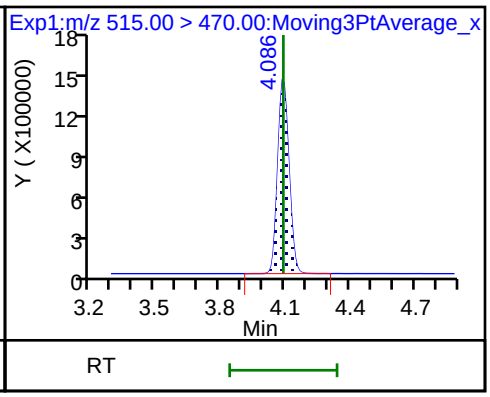
D 36 13C8 FOSA



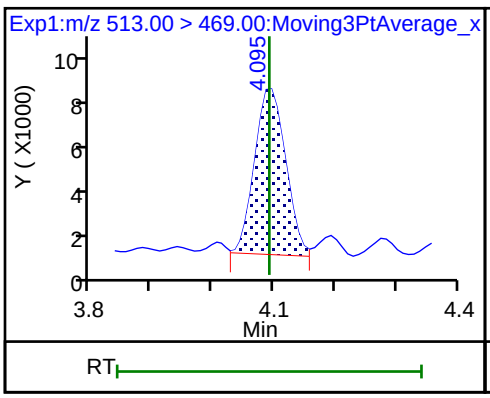
34 Perfluorooctanesulfonamide



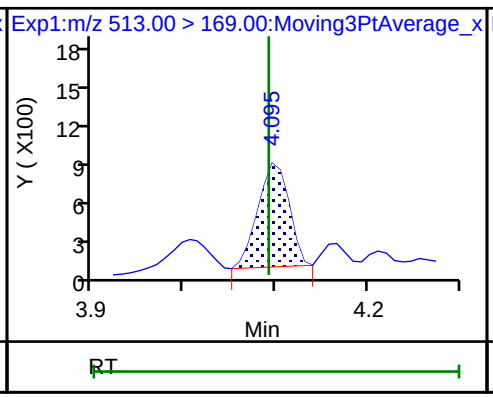
D 33 13C2 PFDA



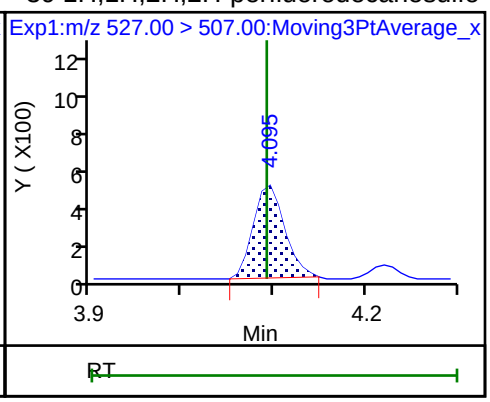
38 Perfluorodecanoic acid



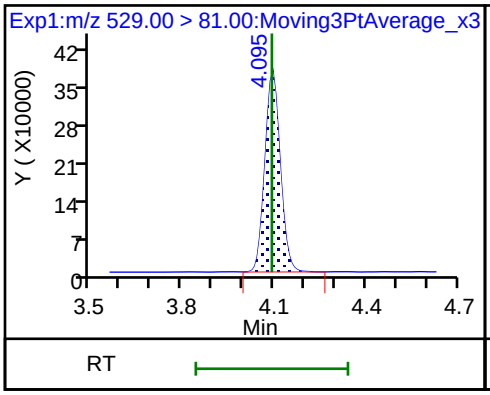
38 Perfluorodecanoic acid



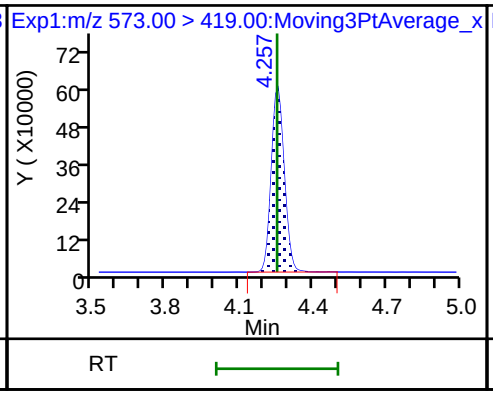
39 1H,1H,2H,2H-perfluorodecanesulfo



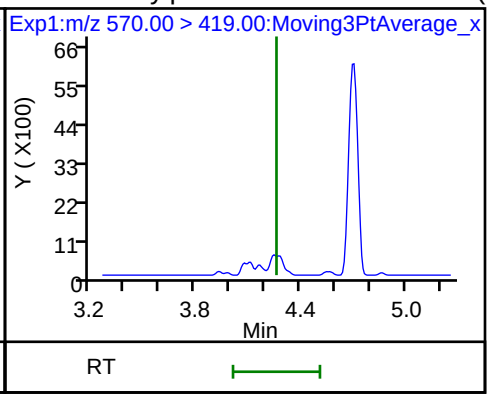
D 37 M2-8:2 FTS



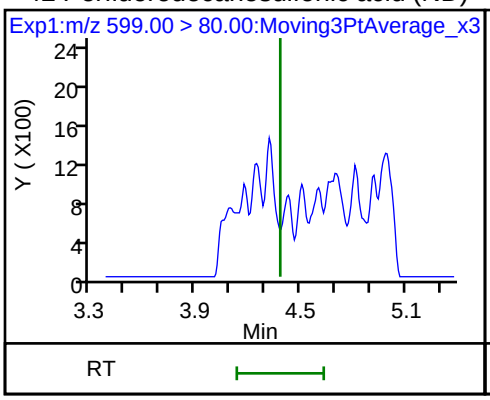
D 41 d3-NMeFOSAA



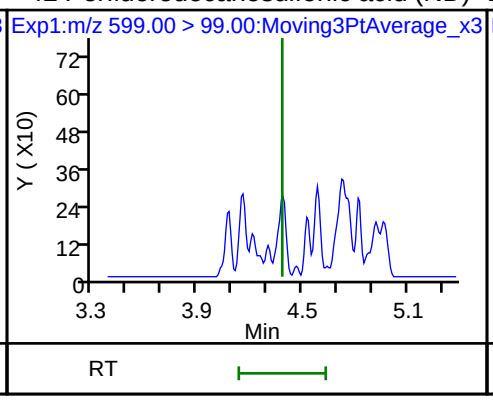
40 N-methylperfluorooctanesulfonami (ND)



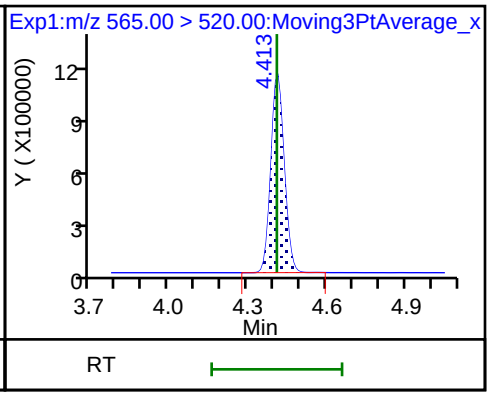
42 Perfluorodecanesulfonic acid (ND)



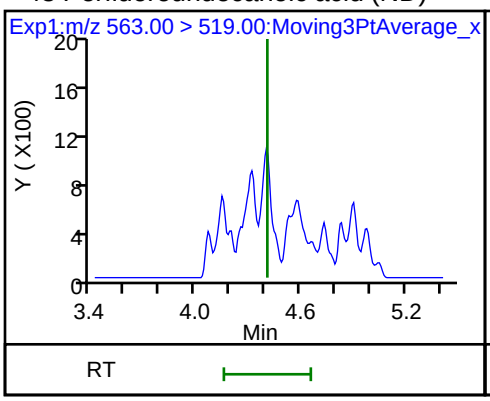
42 Perfluorodecanesulfonic acid (ND)



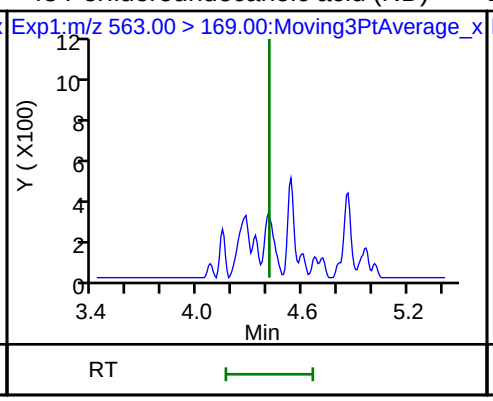
D 46 13C2 PFUnA



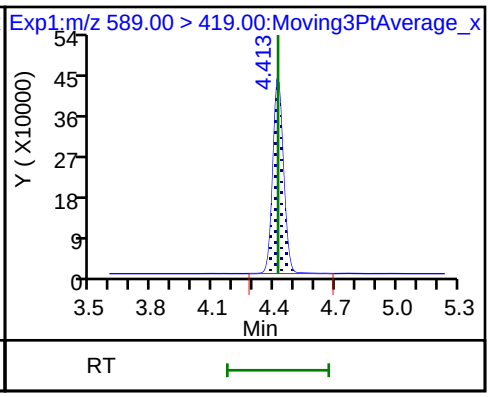
43 Perfluoroundecanoic acid (ND)



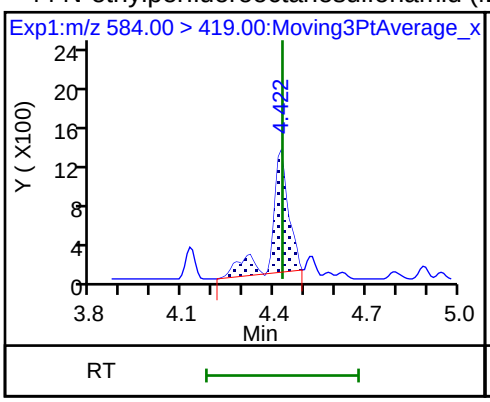
43 Perfluoroundecanoic acid (ND)



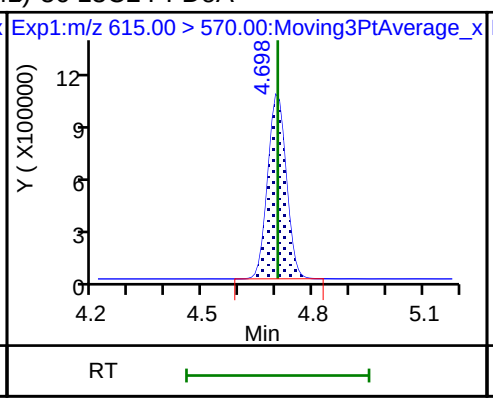
D 45 d5-NEtFOSAA



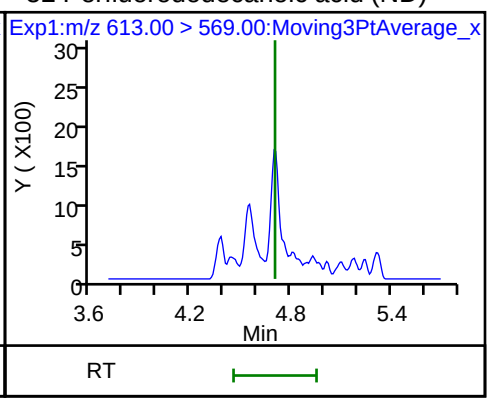
44 N-ethylperfluorooctanesulfonamid (ND)



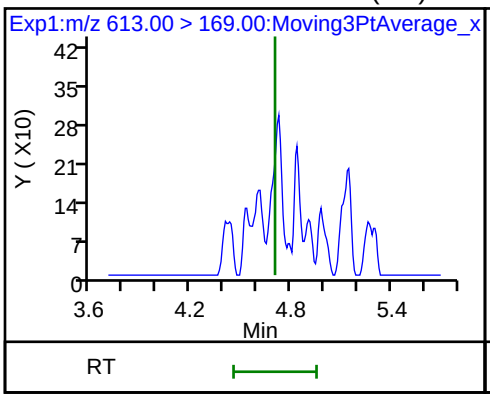
D 56 13C2 PFDoA



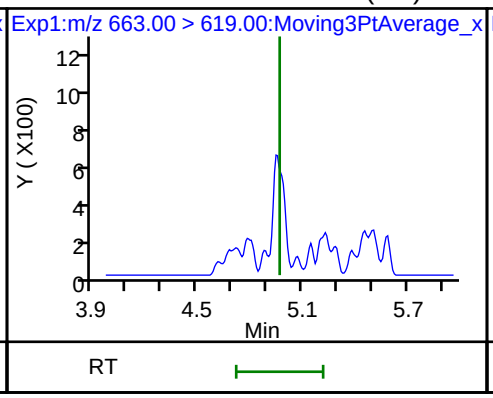
52 Perfluorododecanoic acid (ND)



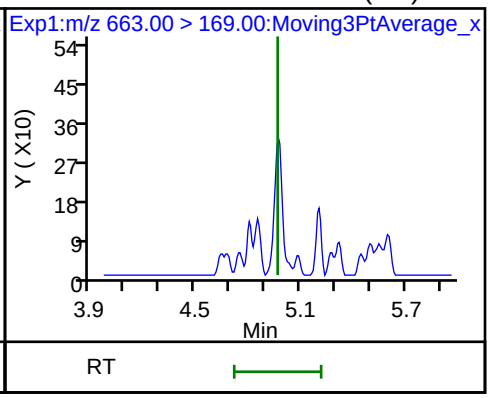
52 Perfluorododecanoic acid (ND)



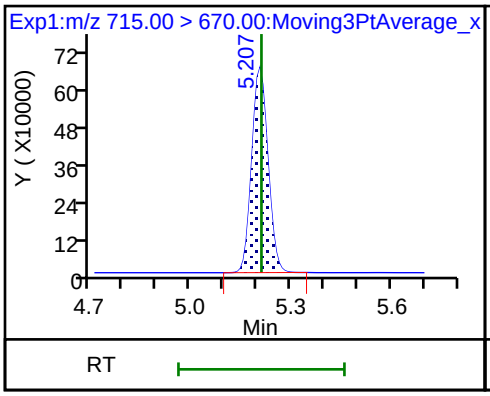
60 Perfluorotridecanoic acid (ND)



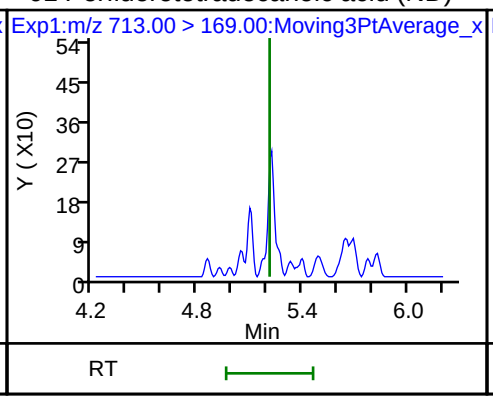
60 Perfluorotridecanoic acid (ND)



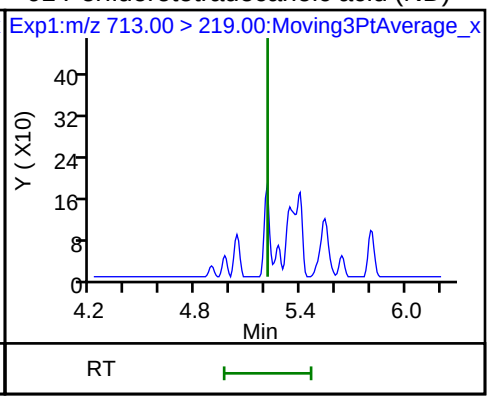
D 62 13C2 PFTeDA



61 Perfluorotetradecanoic acid (ND)



61 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

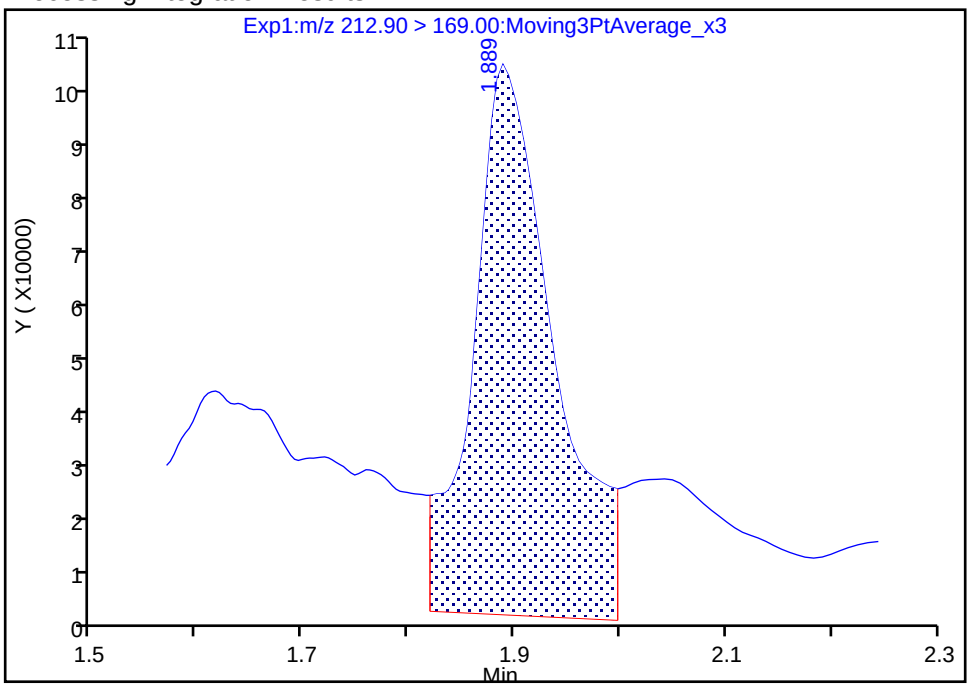
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

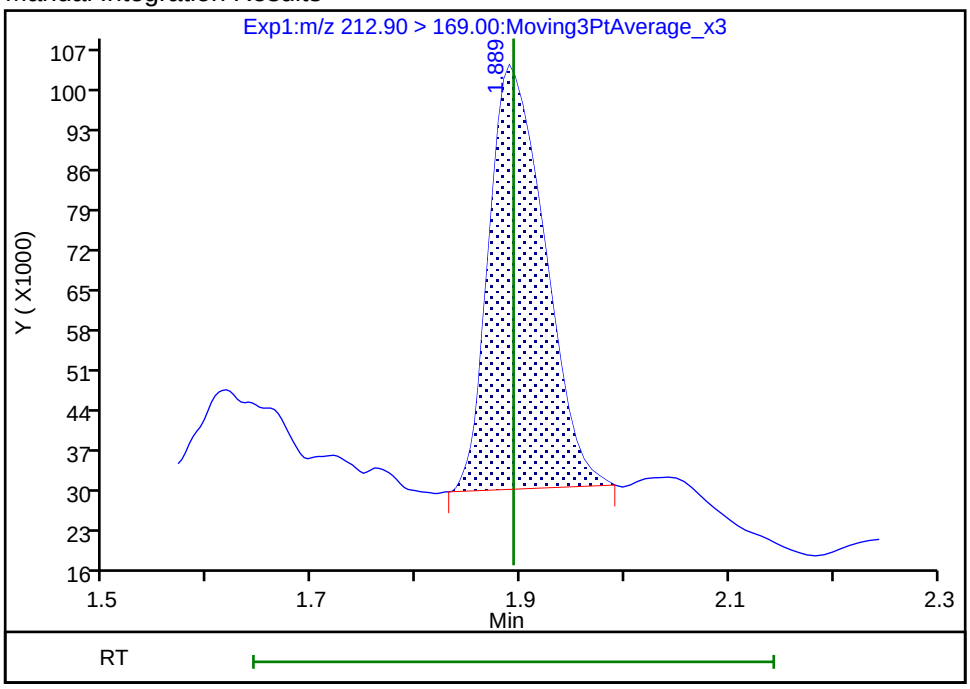
Processing Integration Results

RT: 1.89
Area: 510579
Amount: 0.302451
Amount Units: ng/ml



Manual Integration Results

RT: 1.89
Area: 277429
Amount: 0.164340
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:17:56

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

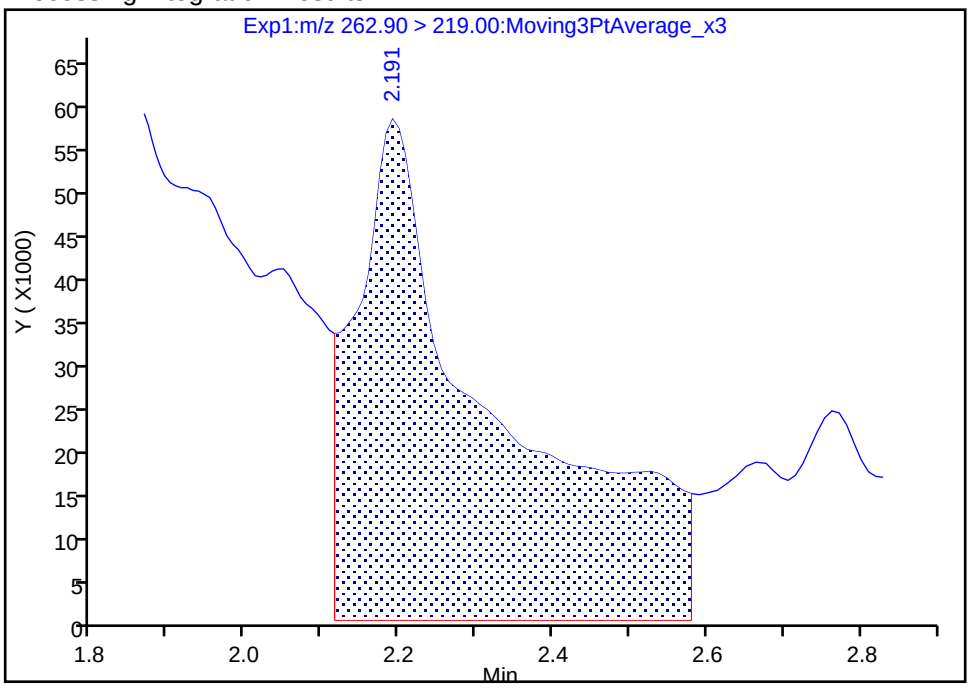
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

3 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

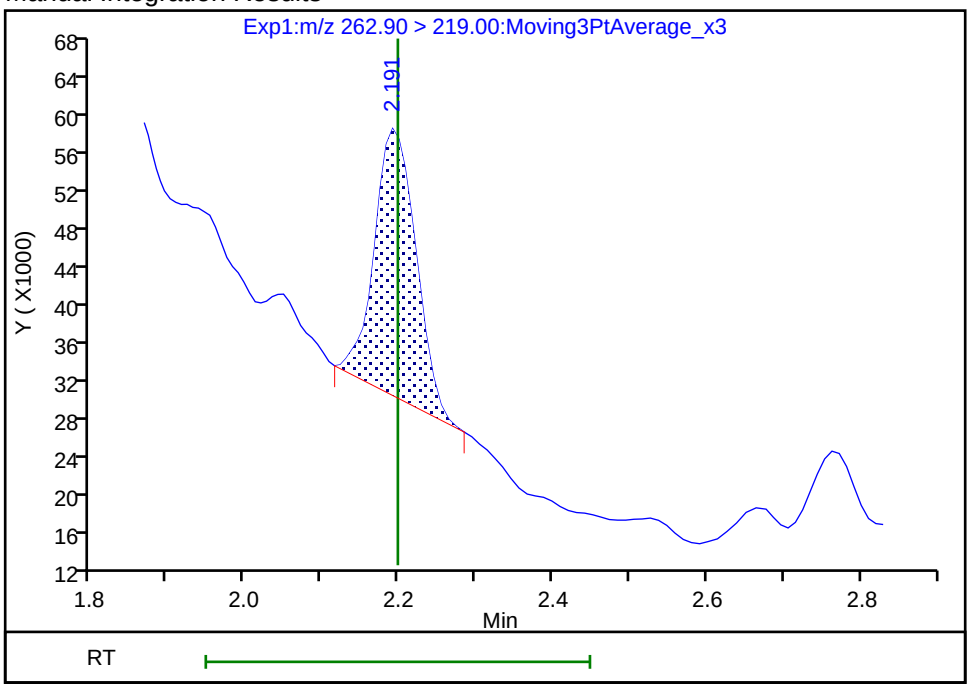
Processing Integration Results

RT: 2.19
Area: 742816
Amount: 0.366892
Amount Units: ng/ml



Manual Integration Results

RT: 2.19
Area: 104899
Amount: 0.051812
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:18:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

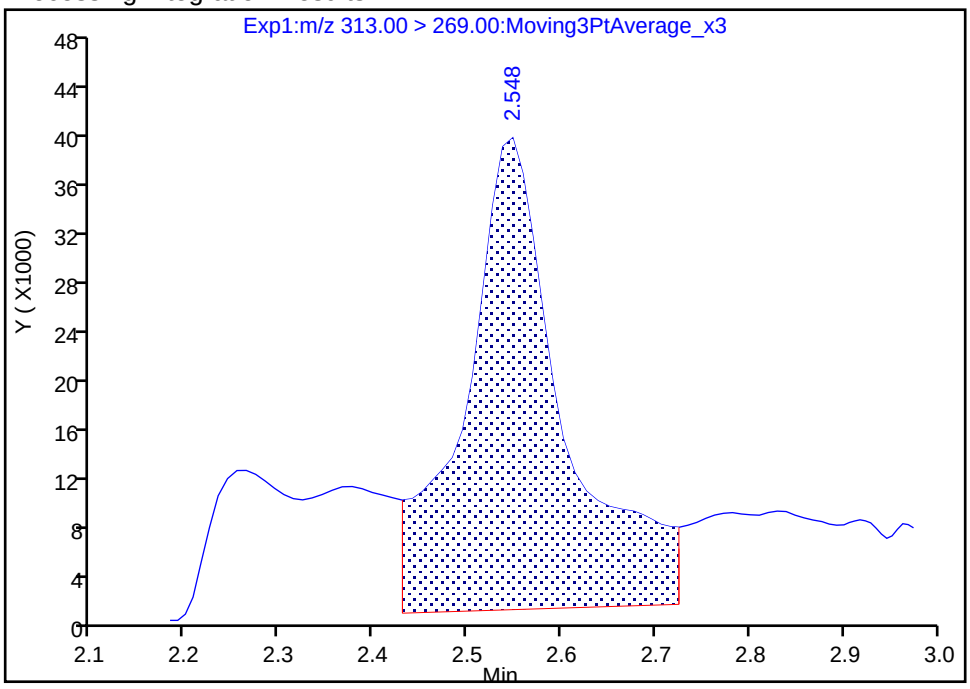
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

11 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

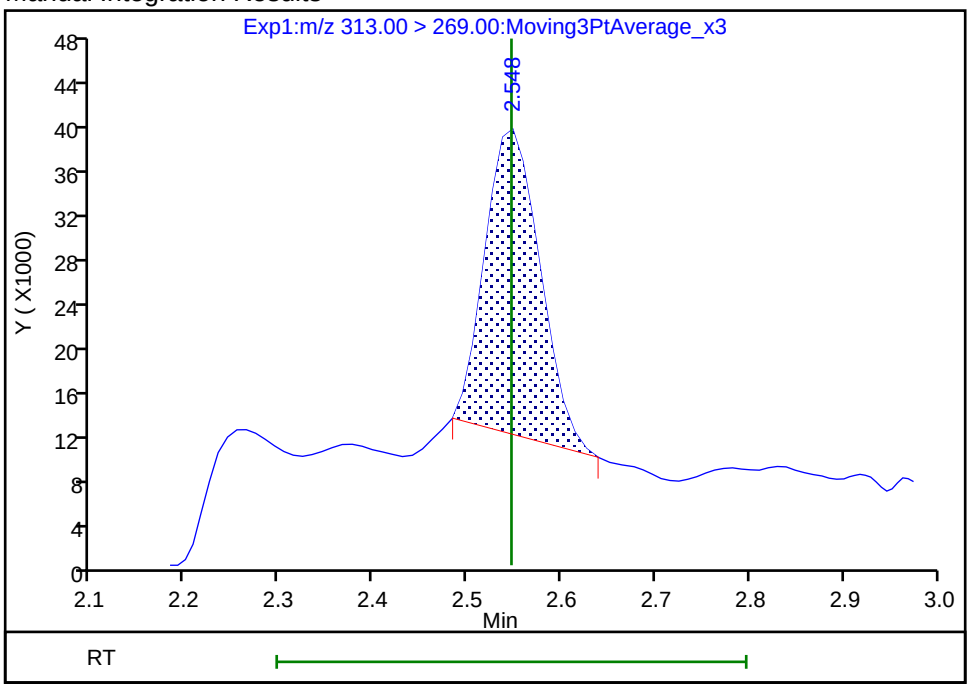
Processing Integration Results

RT: 2.55
Area: 279445
Amount: 0.163471
Amount Units: ng/ml



Manual Integration Results

RT: 2.55
Area: 110711
Amount: 0.064764
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:19:13

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

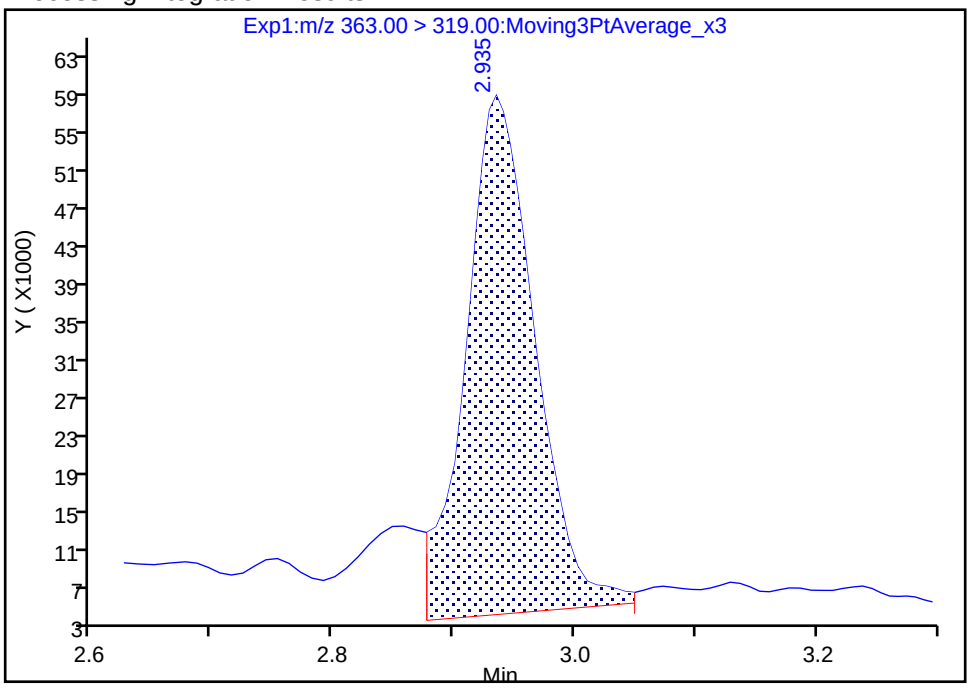
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

18 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

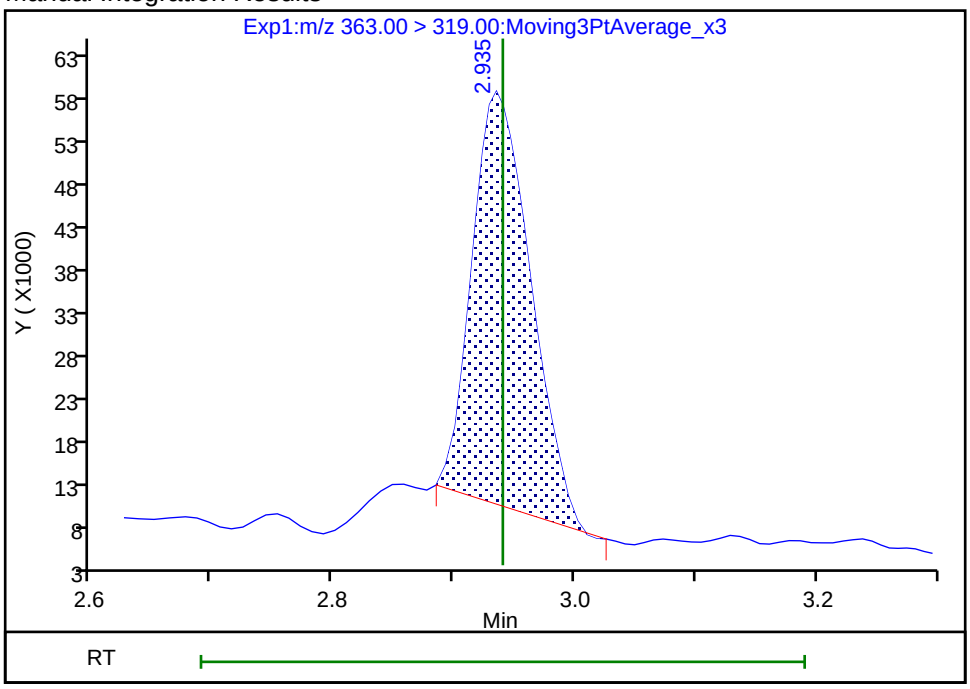
Processing Integration Results

RT: 2.93
Area: 217190
Amount: 0.094798
Amount Units: ng/ml



Manual Integration Results

RT: 2.93
Area: 160568
Amount: 0.070084
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:20:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

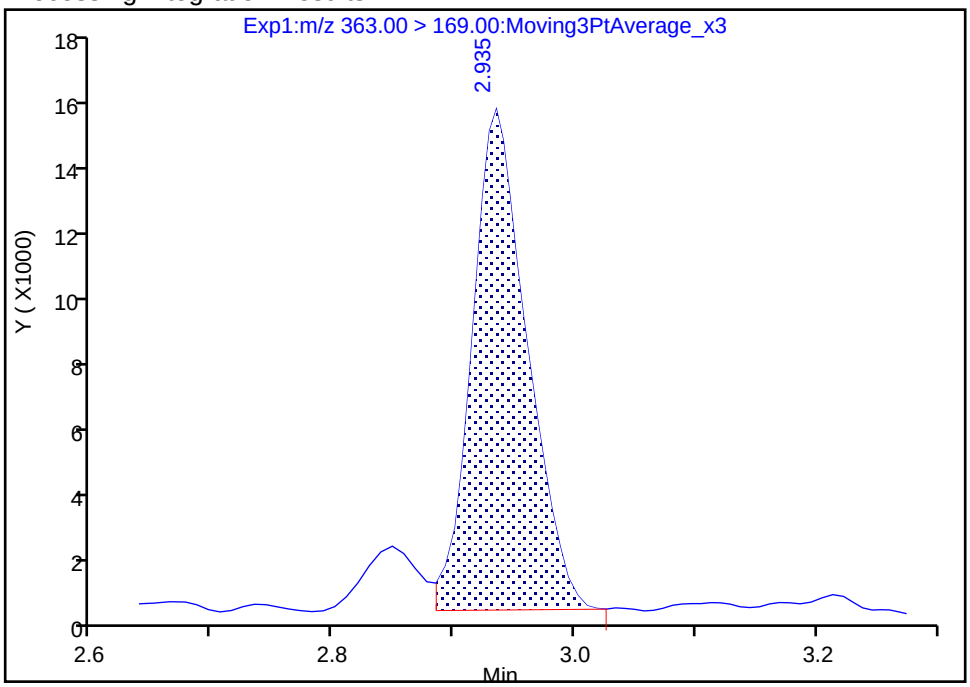
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

18 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

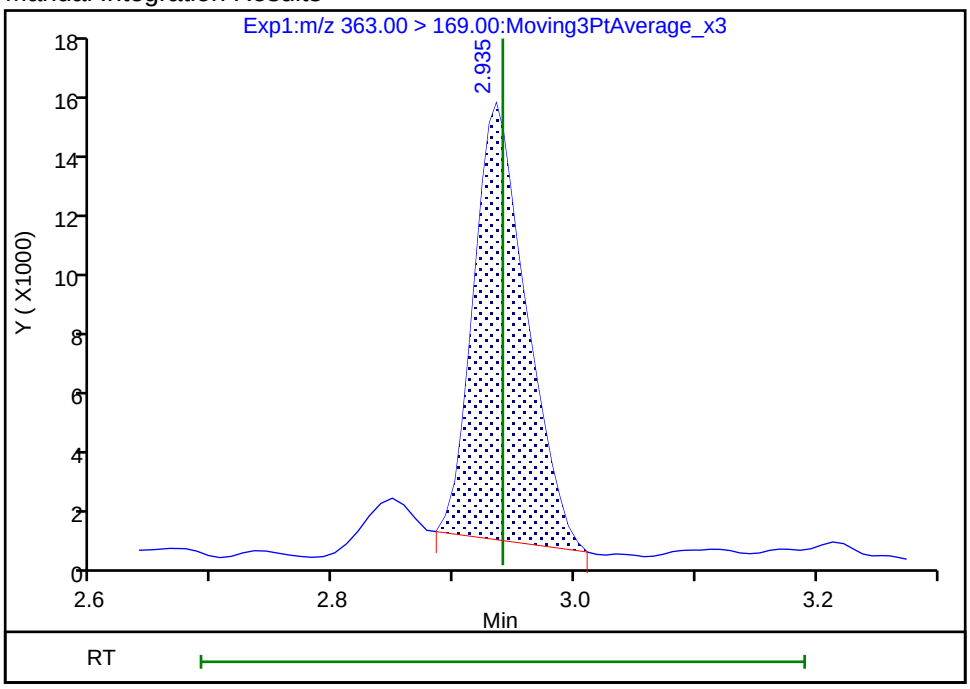
Processing Integration Results

RT: 2.93
Area: 47599
Amount: 0.094798
Amount Units: ng/ml



Manual Integration Results

RT: 2.93
Area: 44056
Amount: 0.070084
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:20:15
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

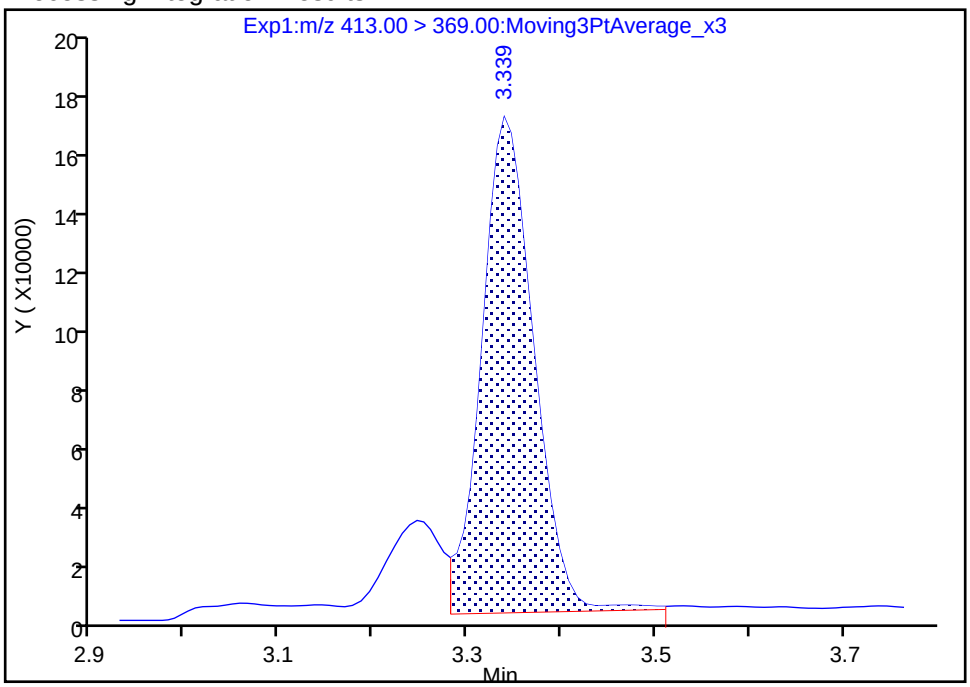
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

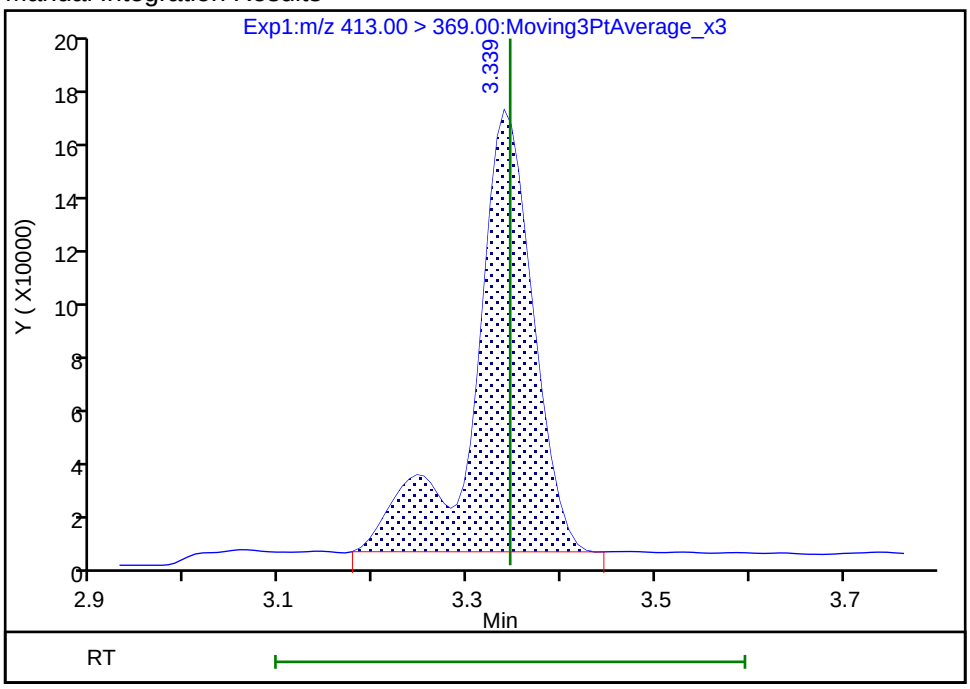
Processing Integration Results

RT: 3.34
Area: 638657
Amount: 0.305167
Amount Units: ng/ml



Manual Integration Results

RT: 3.34
Area: 716648
Amount: 0.342434
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:21:09
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

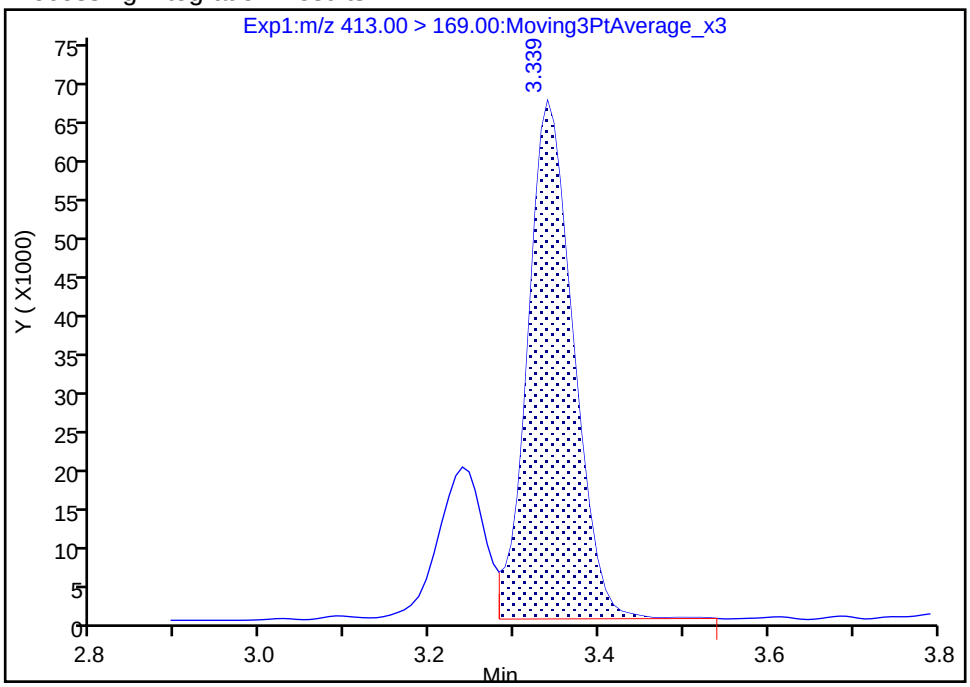
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

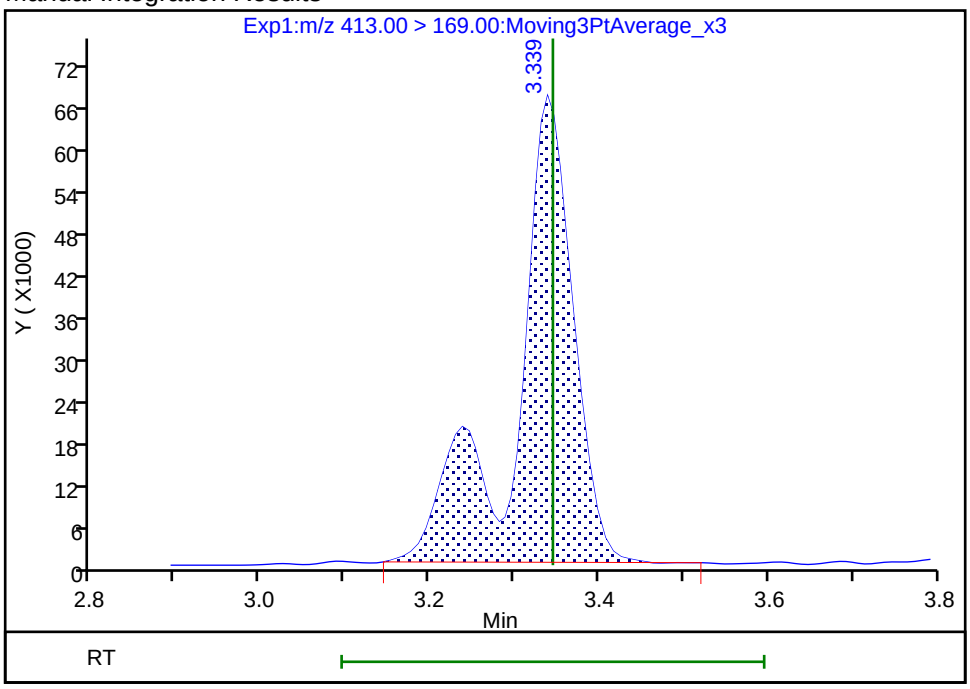
Processing Integration Results

RT: 3.34
Area: 251005
Amount: 0.305167
Amount Units: ng/ml



Manual Integration Results

RT: 3.34
Area: 320090
Amount: 0.342434
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:21:13

Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

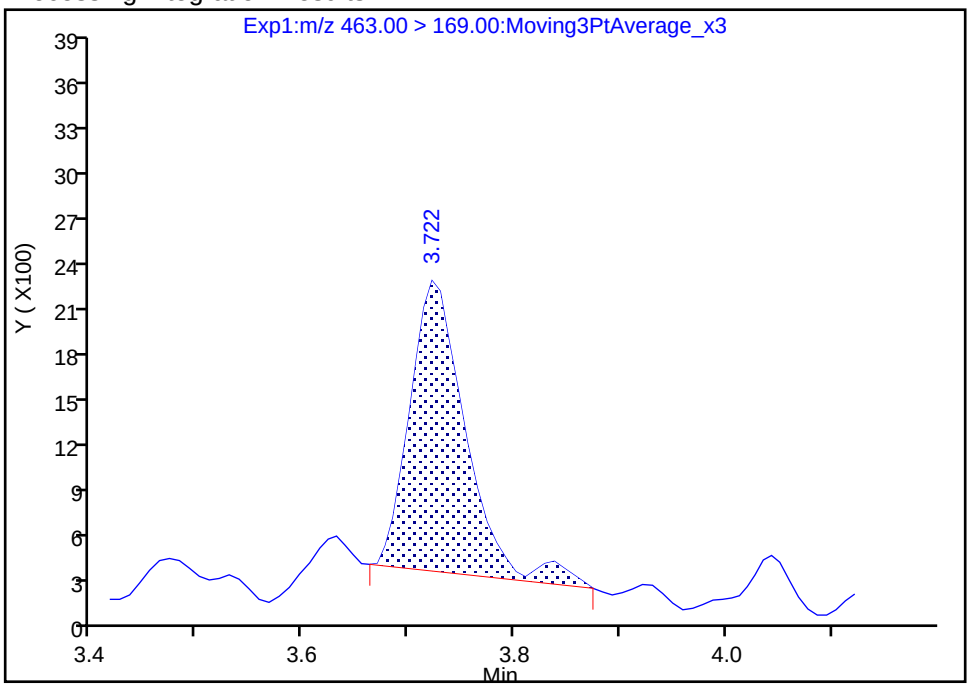
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

30 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

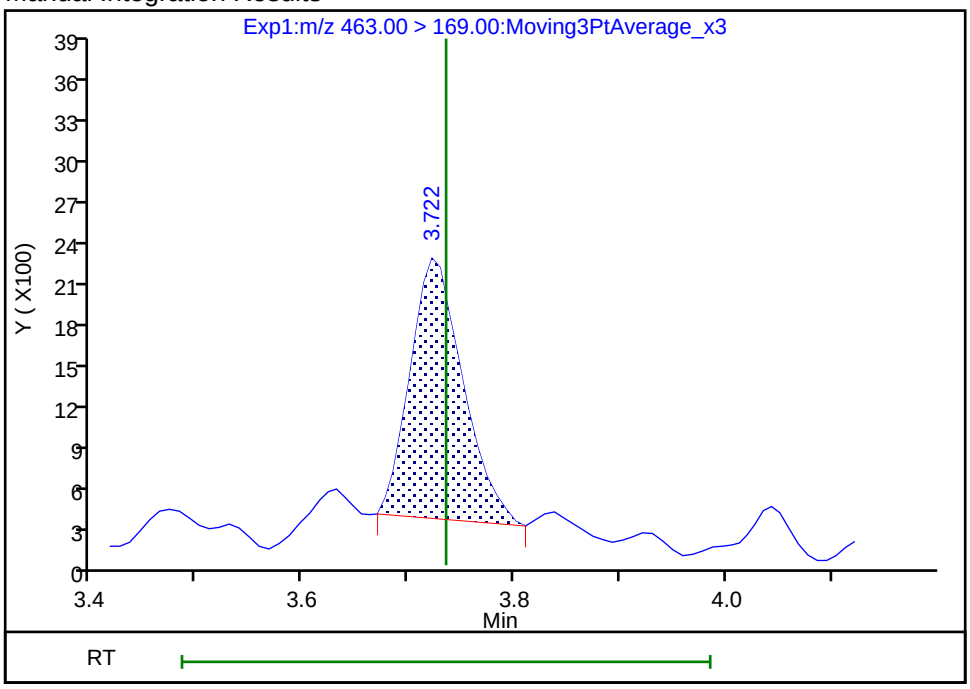
Processing Integration Results

RT: 3.72
Area: 7067
Amount: 0.021250
Amount Units: ng/ml



Manual Integration Results

RT: 3.72
Area: 6580
Amount: 0.021250
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:21:47
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

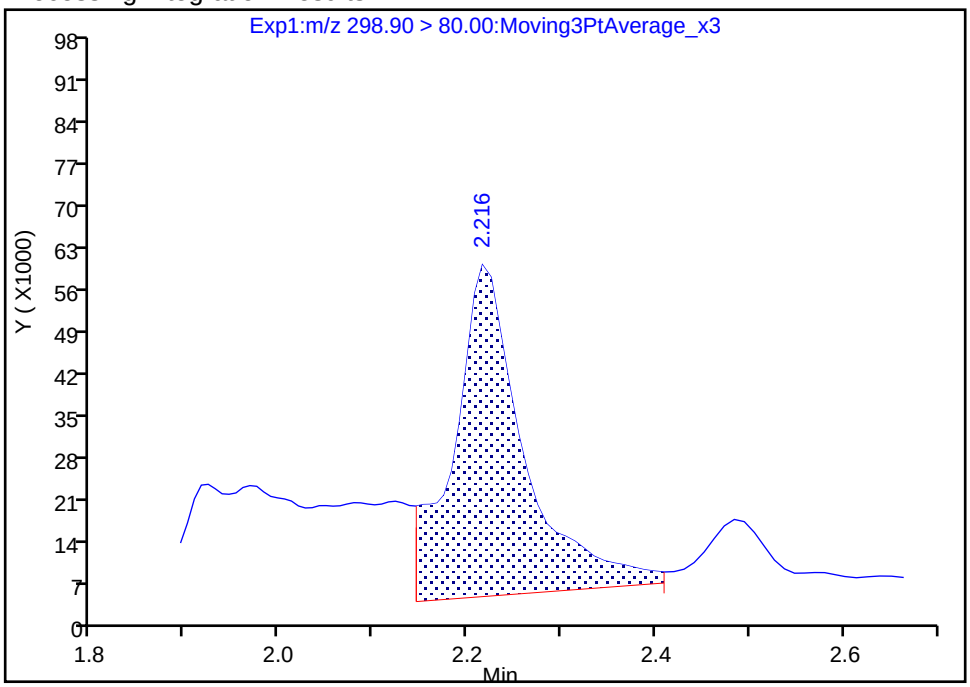
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

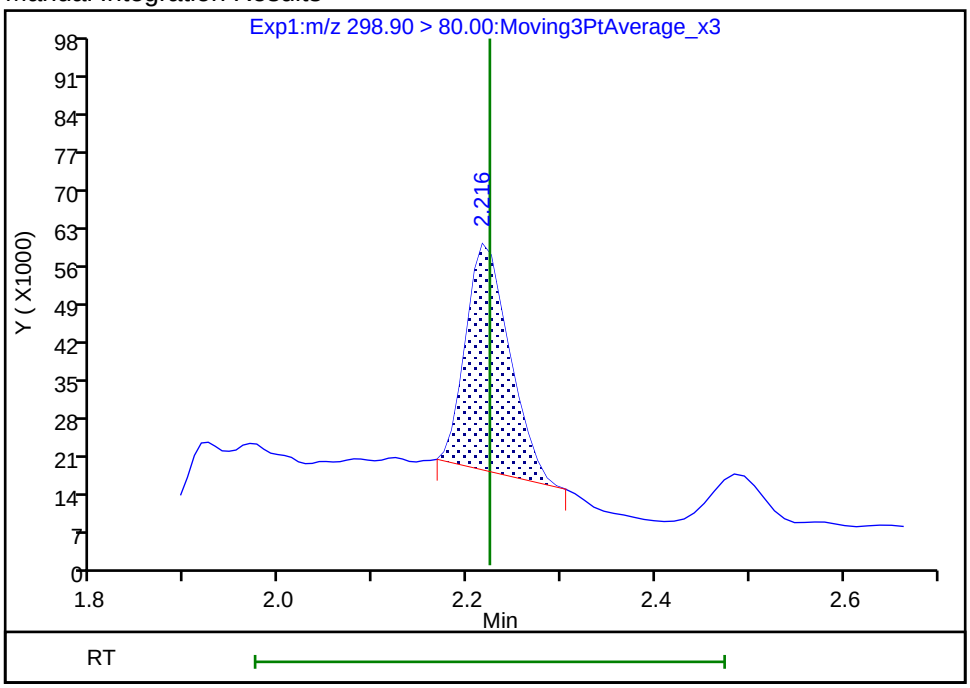
Processing Integration Results

RT: 2.22
Area: 288390
Amount: 0.063794
Amount Units: ng/ml



Manual Integration Results

RT: 2.22
Area: 135321
Amount: 0.029934
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:18:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

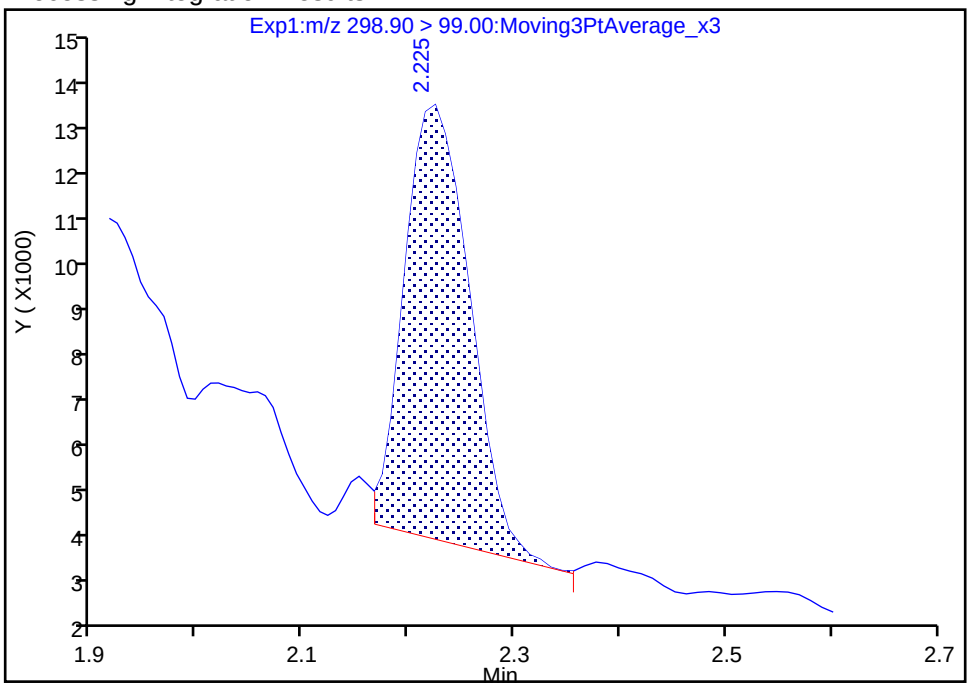
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

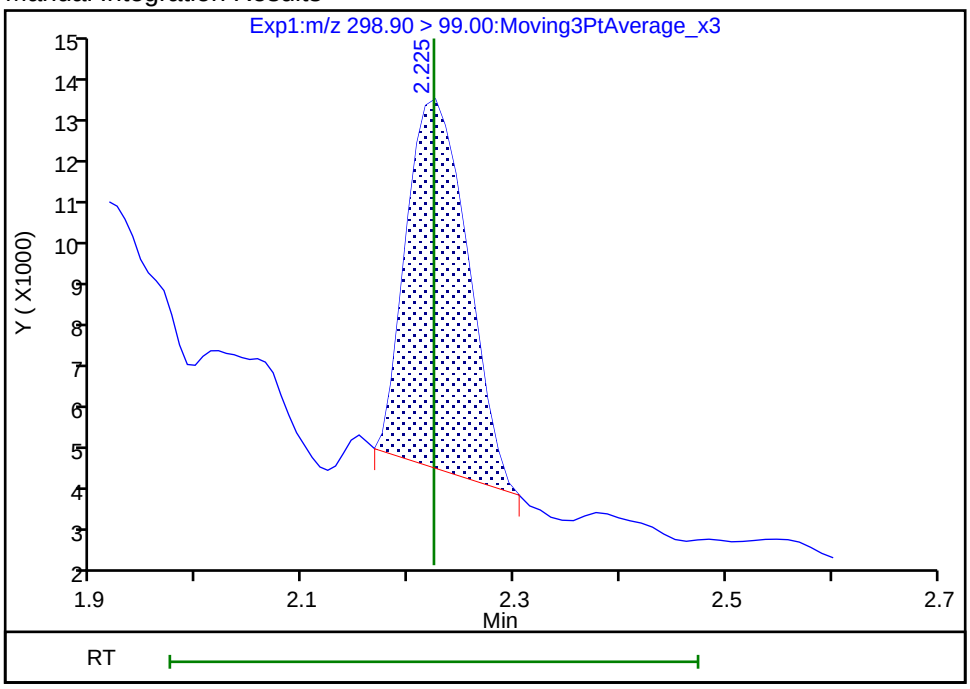
Processing Integration Results

RT: 2.22
Area: 38073
Amount: 0.063794
Amount Units: ng/ml



Manual Integration Results

RT: 2.22
Area: 33583
Amount: 0.029934
Amount Units: ng/ml



Reviewer: kurilyaki, 11-Sep-2020 18:26:30
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

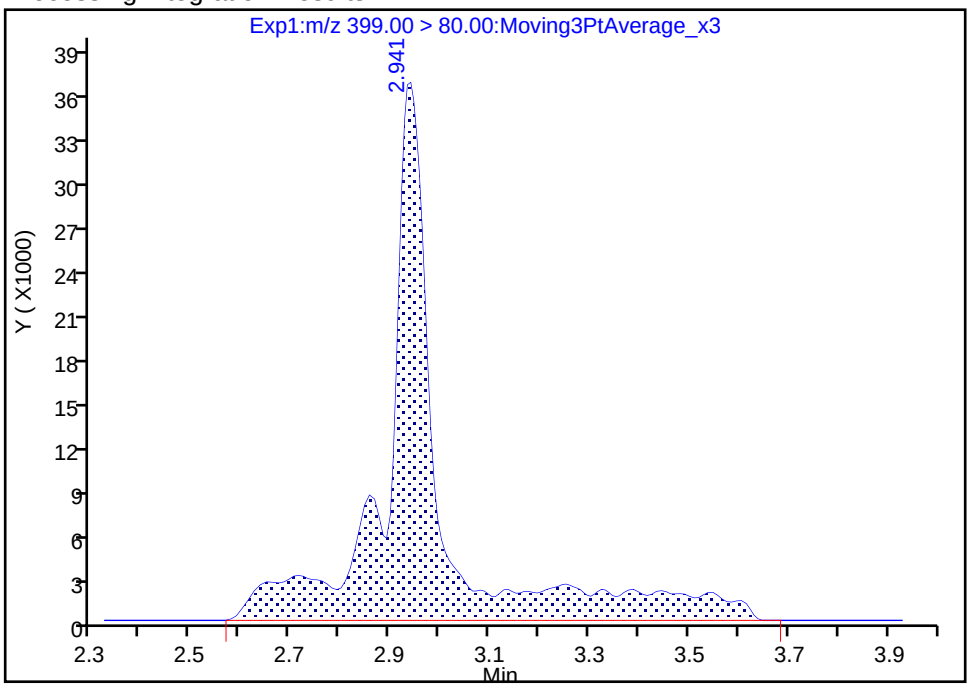
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

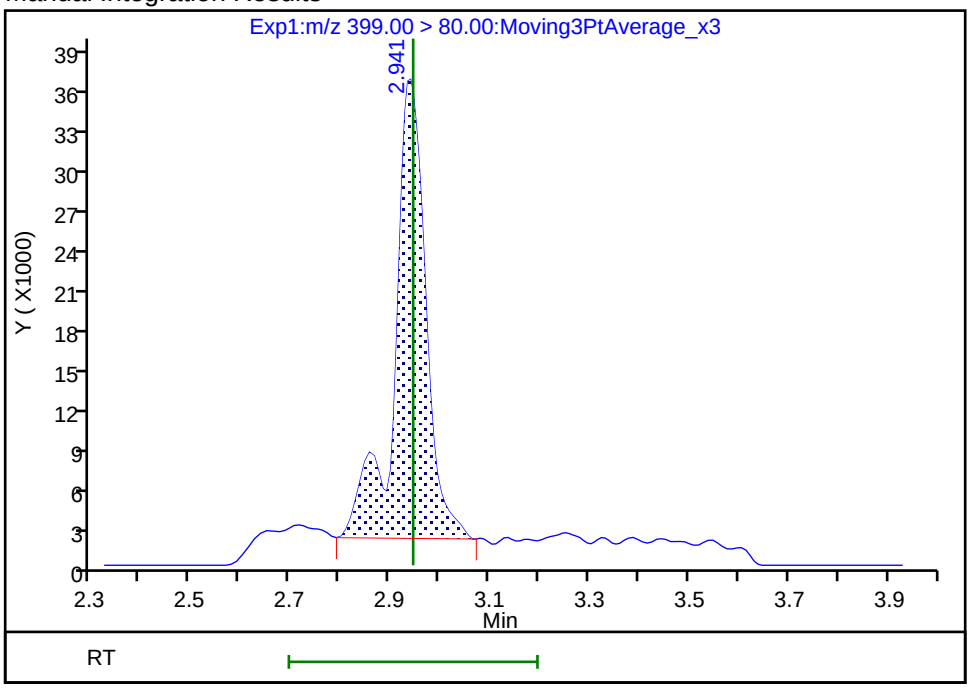
Processing Integration Results

RT: 2.94
Area: 270164
Amount: 0.099346
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 148787
Amount: 0.054713
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:19:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

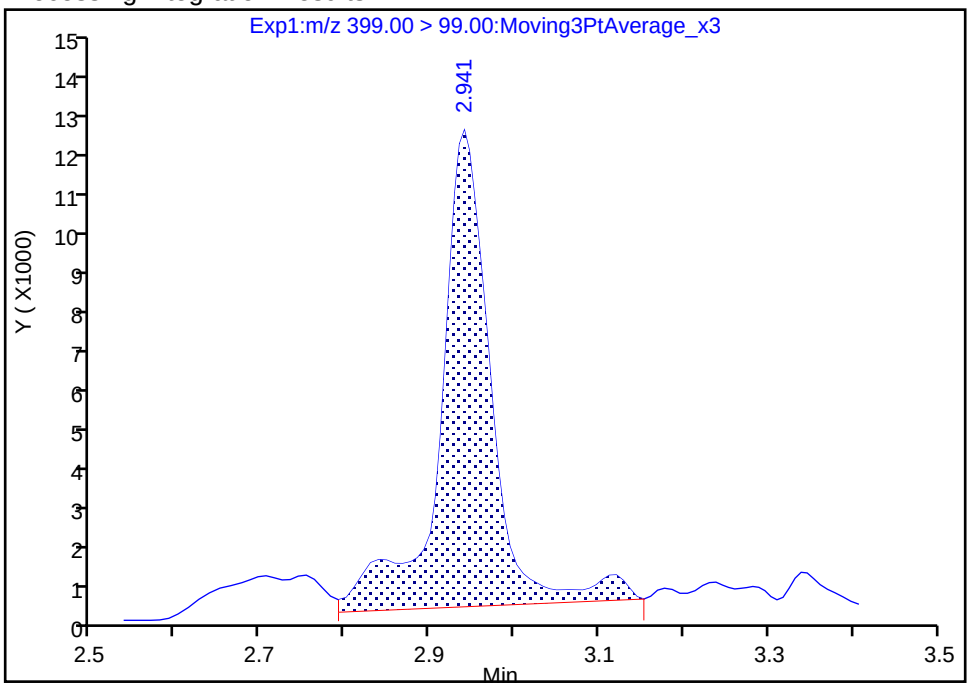
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

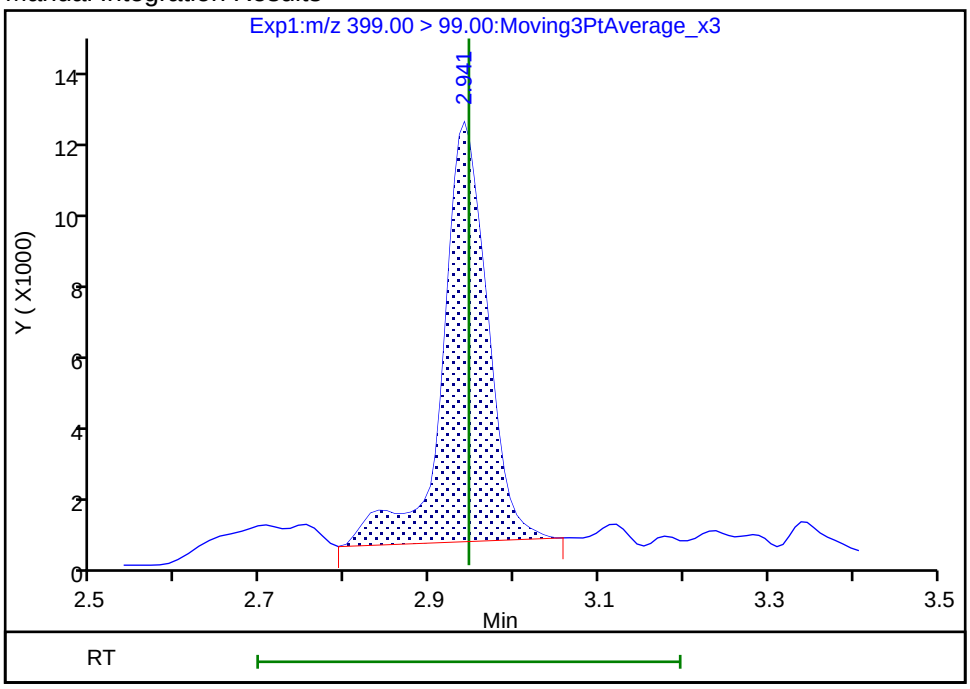
Processing Integration Results

RT: 2.94
Area: 48444
Amount: 0.099346
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 41641
Amount: 0.054713
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:19:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

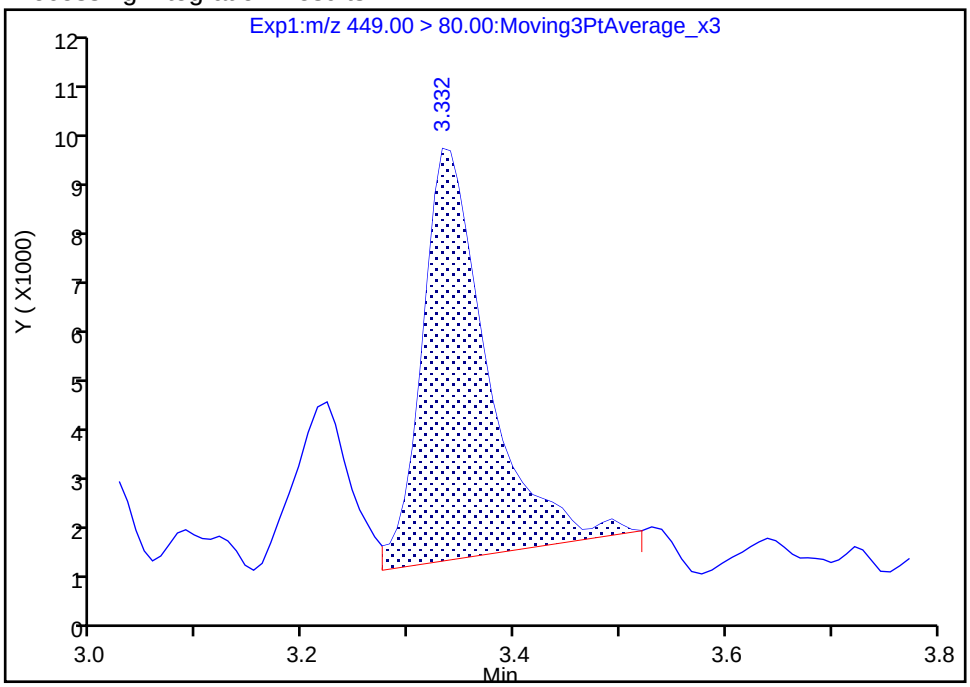
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

23 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

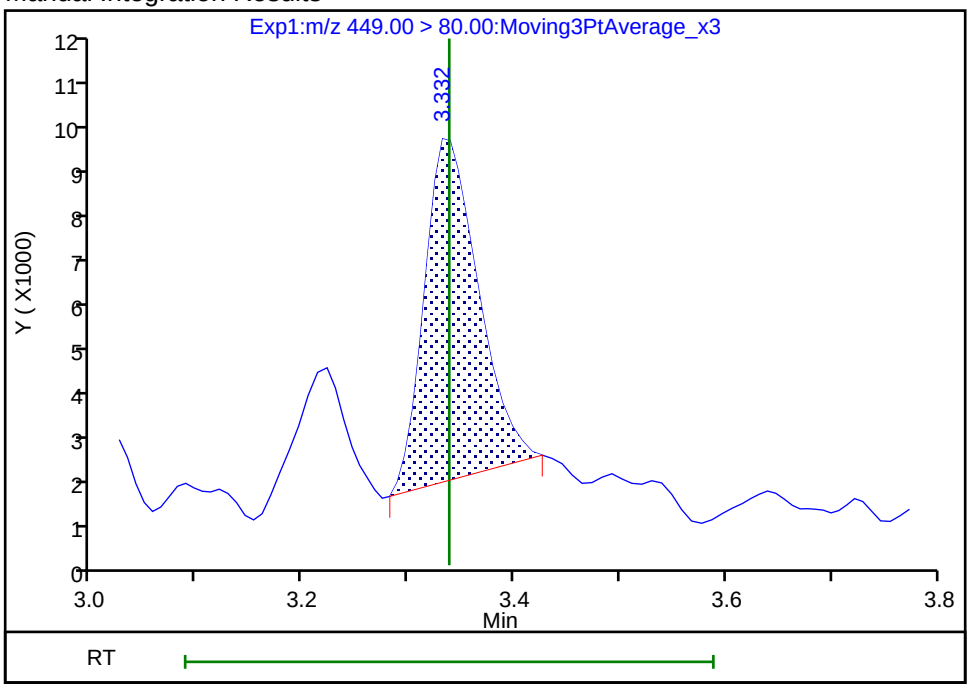
Processing Integration Results

RT: 3.33
Area: 33996
Amount: 0.015960
Amount Units: ng/ml



Manual Integration Results

RT: 3.33
Area: 25792
Amount: 0.012108
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:20:50

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

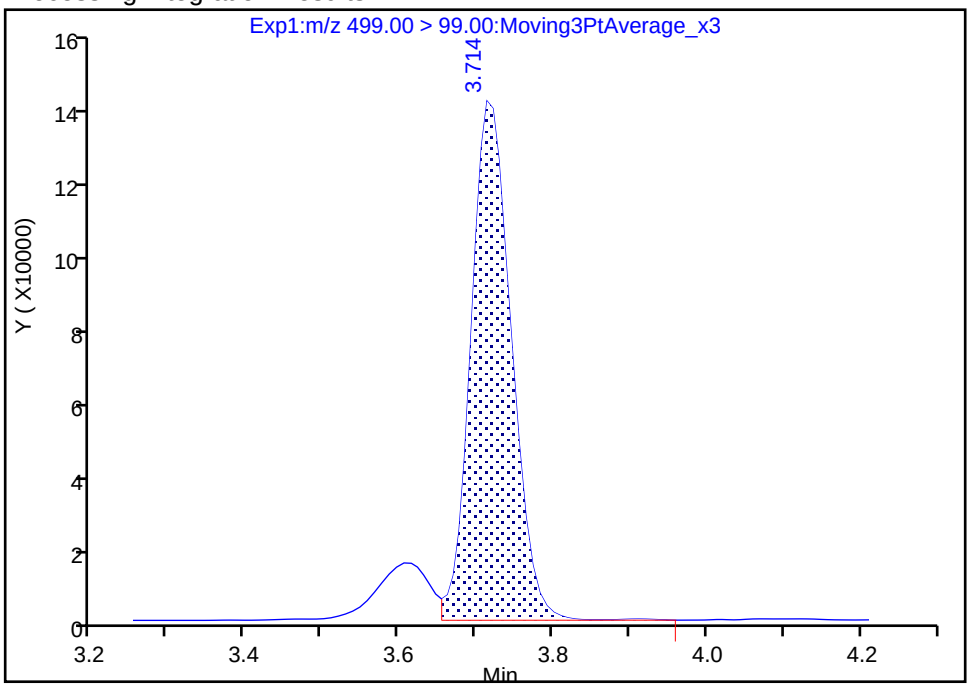
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

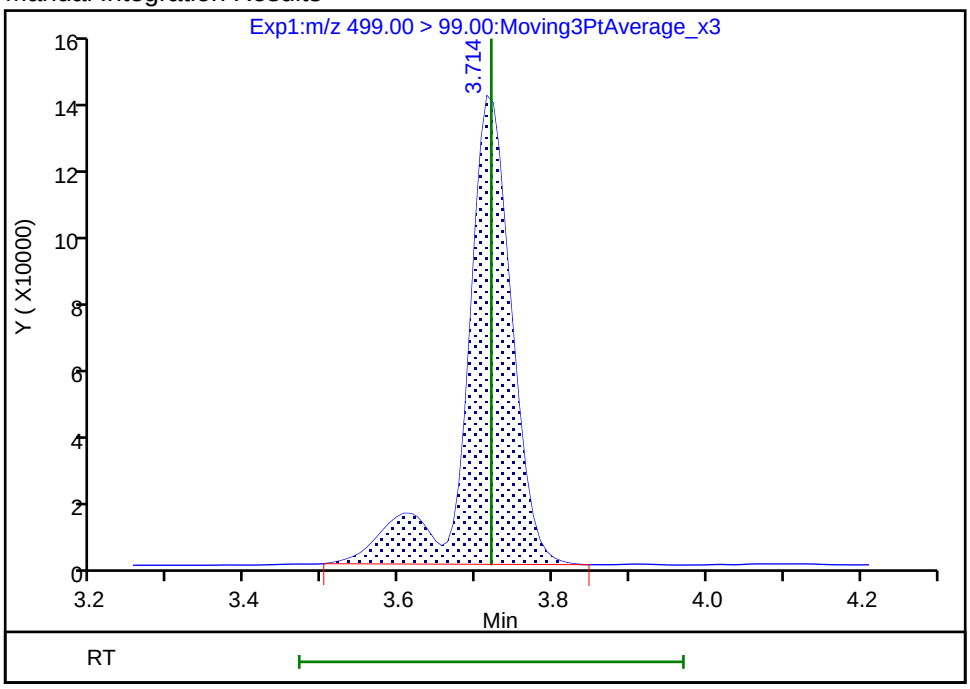
Processing Integration Results

RT: 3.71
Area: 492195
Amount: 1.099005
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 556138
Amount: 1.099005
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:21:25
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

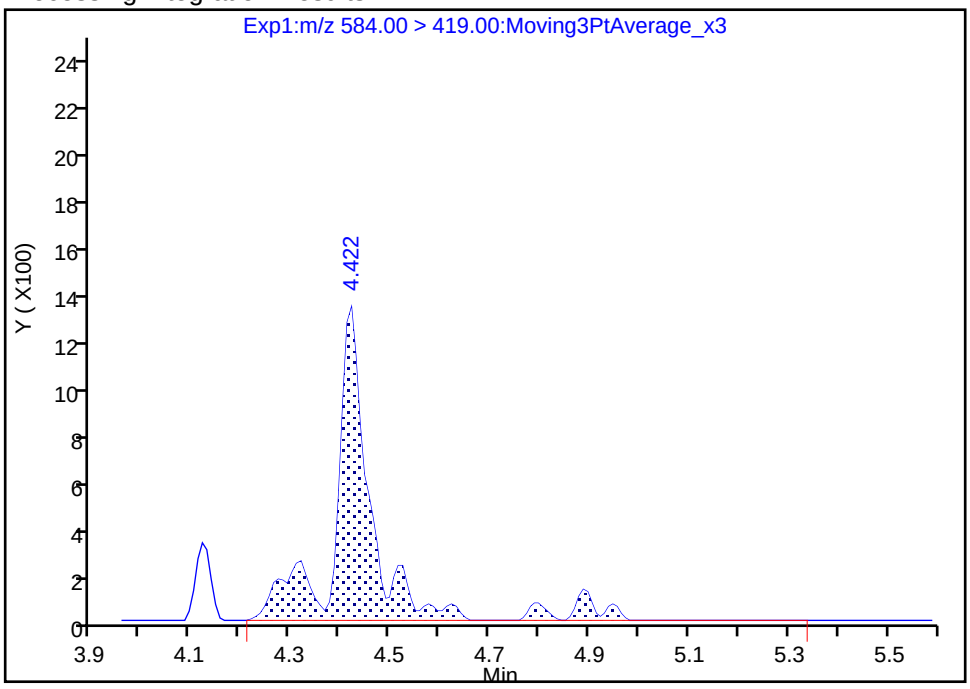
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

44 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

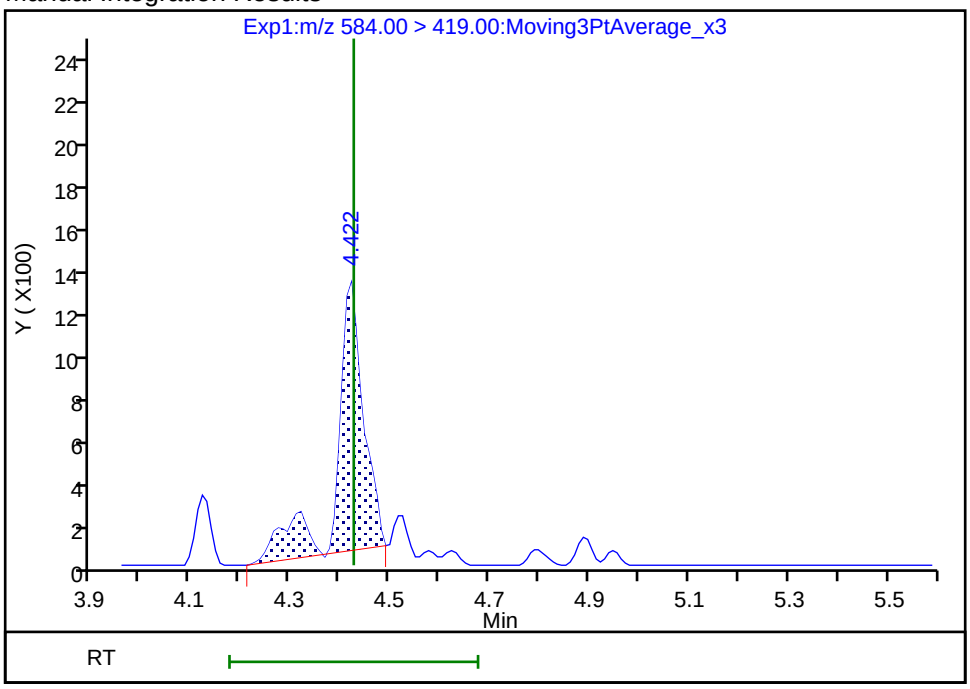
Processing Integration Results

RT: 4.42
Area: 6870
Amount: 0.013491
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 4690
Amount: 0.009210
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:22:35

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

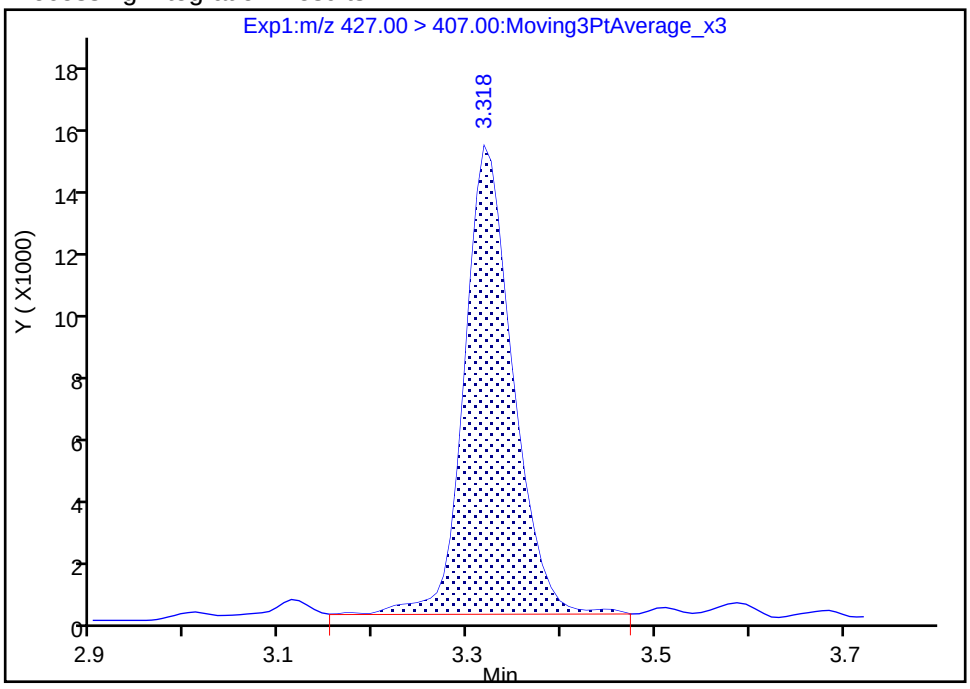
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_039.d				
Injection Date:	11-Sep-2020 15:25:56	Instrument ID:	A9		
Lims ID:	460-217547-D-4-A	Lab Sample ID:	320-217547-4		
Client ID:	MW-206				
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	25	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

22 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

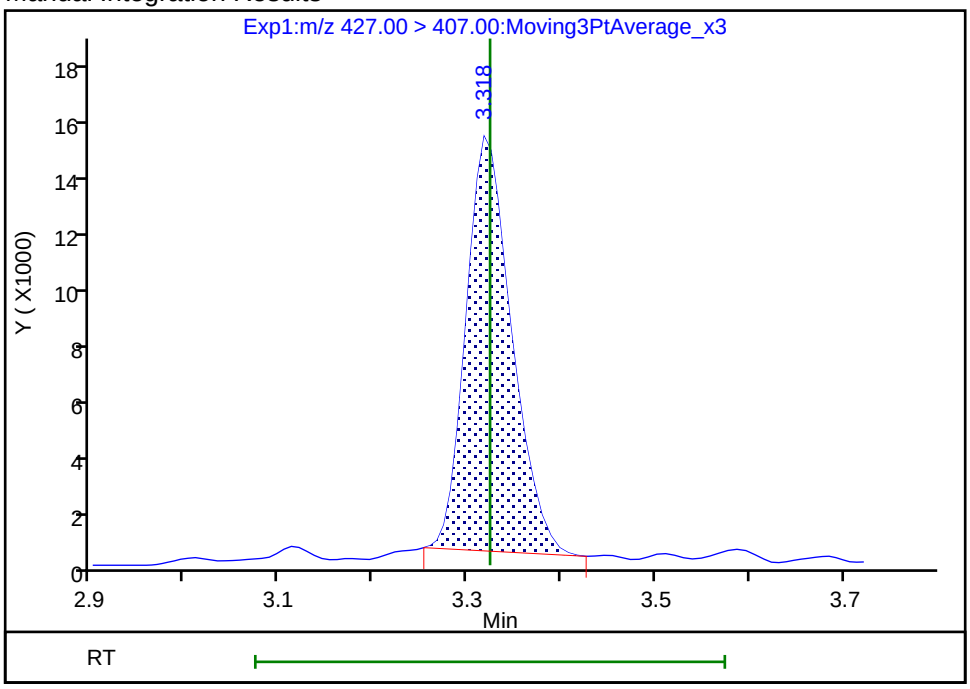
Processing Integration Results

RT: 3.32
Area: 54177
Amount: 0.068687
Amount Units: ng/ml



Manual Integration Results

RT: 3.32
Area: 50064
Amount: 0.063472
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:20:30

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-213 Lab Sample ID: 460-217547-5

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_019.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 09:40

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 265.7(mL) Date Analyzed: 09/11/2020 13:09

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	12.4	B	1.88	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	7.81		1.88	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	8.64		1.88	0.55
375-85-9	Perfluoroheptanoic acid (PFHpA)	6.13		1.88	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	26.5		1.88	0.80
375-95-1	Perfluorononanoic acid (PFNA)	2.51		1.88	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	1.61	J	1.88	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.04	U	1.88	1.04
307-55-1	Perfluorododecanoic acid (PFDoA)	0.52	U	1.88	0.52
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.22	U	1.88	1.22
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.88	0.27
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.27		1.88	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.94	B	1.88	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.79	J	1.88	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	60.7		1.88	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.88	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.76	J B	1.88	0.33
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.92	U	18.8	2.92
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79	U	18.8	1.79
27619-97-2	6:2 FTS	2.14	J	18.8	1.88
39108-34-4	8:2 FTS	1.88	U	18.8	1.88

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: MW-213 Lab Sample ID: 460-217547-5

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_019.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 09:40

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 265.7(mL) Date Analyzed: 09/11/2020 13:09

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	49		25-150
STL01893	13C5 PFPeA	68		25-150
STL00993	13C2 PFHxA	81		25-150
STL01892	13C4 PFHpA	91		25-150
STL00990	13C4 PFOA	91		25-150
STL00995	13C5 PFNA	94		25-150
STL00996	13C2 PFDA	100		25-150
STL00997	13C2 PFUnA	89		25-150
STL00998	13C2 PFDoA	72		25-150
STL02116	13C2 PFTeDA	74		25-150
STL02337	13C3 PFBS	88		25-150
STL00994	18O2 PFHxS	92		25-150
STL00991	13C4 PFOS	88		25-150
STL01056	13C8 FOSA	72		25-150
STL02118	d3-NMeFOSAA	61		25-150
STL02117	d5-NEtFOSAA	71		25-150
STL02279	M2-6:2 FTS	157	*5	25-150
STL02280	M2-8:2 FTS	113		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d
Lims ID: 460-217547-E-5-A
Client ID: MW-213
Sample Type: Client
Inject. Date: 11-Sep-2020 13:09:17 ALS Bottle#: 10 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-e-5-a
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 10:06:26 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 10:06:26
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.565	2.566	-0.001	0.626	9299589	1.22		48.9	4934	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.565	2.566	-0.001	1.000	1067902	0.3308			13.2	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.919	2.909	0.010	0.712	10058627	1.70		68.0	1855	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.919	2.920	-0.001	1.000	832729	0.2076			3.2	M
D 9 13C3 PFBS										
301.90 > 80.00	2.950	2.951	-0.001	0.720	9555598	2.06		88.5	363	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.950	2.951	-0.001	1.000	250763	0.0604	Target=2.37		2.4	M
298.90 > 99.00	2.950	2.951	-0.001	1.000	100991		2.48(1.19-3.56)		4.1	M
D 11 13C2 PFHxA										
315.00 > 270.00	3.288	3.290	-0.002	0.802	11981717	2.03		81.2	4434	
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.288	3.290	-0.002	1.000	1060602	0.2296	Target=13.16		8.9	M
313.00 > 119.00	3.288	3.290	-0.002	1.000	83645		12.68(6.58-19.74)		18.1	
D 17 18O2 PFHxS										
403.00 > 84.00	3.701	3.702	-0.001	0.903	5350588	2.18		92.1	7284	
D 18 13C4 PFHpA										
367.00 > 322.00	3.701	3.702	-0.001	0.903	11521527	2.29		91.4	5401	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.701	3.702	-0.001	1.000	761389	0.1630	Target=3.69		13.8	M
363.00 > 169.00	3.701	3.702	-0.001	1.000	215814		3.53(1.85-5.54)		43.8	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.701	3.702	-0.001	1.000	350602	0.1312	Target=3.35		17.3	M
399.00 > 99.00	3.701	3.702	-0.001	1.000	93275		3.76(1.67-5.02)		16.3	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.074	4.068	0.006	0.994	3514116	3.74		157	715	
21 6:2 FTS										
427.00 > 407.00	4.074	4.068	0.006	1.000	193798	0.0570			230	
24 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	4.082	4.084	-0.002	0.916	34272	0.0211	Target=4.35		4.6	M
449.00 > 99.00	4.082	4.084	-0.002	0.916	9737		3.52(2.18-6.53)		3.4	M
D 25 13C4 PFOA										
417.00 > 372.00	4.099	4.092	0.007	1.000	10952290	2.28		91.2	7002	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.099	4.092	0.007	1.000	3148349	0.7043	Target=2.91		114	M
413.00 > 169.00	4.099	4.092	0.007	1.000	1265974		2.49(1.45-4.36)		454	M
* 23 13C2 PFOA										
415.00 > 370.00	4.099	4.092	0.007		11995113	2.50			6807	
D 27 13C4 PFOS										
503.00 > 80.00	4.454	4.454	0.0	1.087	3481249	2.09		87.6	786	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.454	4.454	0.0	1.000	2431074	1.61	Target=4.72		365	M
499.00 > 99.00	4.454	4.454	0.0	1.000	448988		5.41(2.36-7.07)		189	M
D 30 13C5 PFNA										
468.00 > 423.00	4.470	4.470	0.0	1.091	9121675	2.36		94.3	6378	
31 Perfluorononanoic acid										
463.00 > 419.00	4.478	4.478	0.0	1.002	233283	0.0667	Target=8.08		19.0	
463.00 > 169.00	4.478	4.478	0.0	1.002	28834		8.09(4.04-12.12)		30.5	
D 33 13C8 FOSA										
506.00 > 78.00	4.794	4.786	0.008	1.170	4804130	1.79		71.6	4910	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.794	4.786	0.008	1.000	83843	0.0469			10.5	
D 39 13C2 PFDA										
515.00 > 470.00	4.829	4.828	0.001	1.178	9372588	2.50		99.8	9516	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.829	4.828	0.001	1.178	3677623	2.72		113	1325	
37 Perfluorodecanoic acid										M
513.00 > 469.00	4.829	4.828	0.001	1.000	154449	0.0427	Target=10.81		23.1	M
513.00 > 169.00	4.820	4.828	-0.008	0.998	15563		9.92(5.40-16.21)		22.0	
36 8:2 FTS										
527.00 > 507.00	4.837	4.828	0.009	1.002	4904	0.001799			40.6	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.989	5.000	-0.011	1.217	3820963	1.52		60.6	2689	
41 NMeFOSAA										
570.00 > 419.00	5.000	5.000	0.0	1.002	26177	0.0231			15.1	
D 43 13C2 PFUnA										
565.00 > 520.00	5.148	5.157	-0.009	1.256	8298350	2.23		89.2	9028	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.157	5.157	0.0	1.258	4711431	1.77		70.7	3027	
46 NEtFOSA										
584.00 > 419.00	5.157	5.166	-0.009	1.000	56968	0.0447			99.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	5.437	5.448	-0.011	1.327	6586677	1.79		71.8	6098	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.948	5.959	-0.011	1.451	5586478	1.84		73.8	6847	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 14-Sep-2020 10:06:26 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d

Injection Date: 11-Sep-2020 13:09:17 Instrument ID: A18

Lims ID: 460-217547-E-5-A Lab Sample ID: 320-217547-5

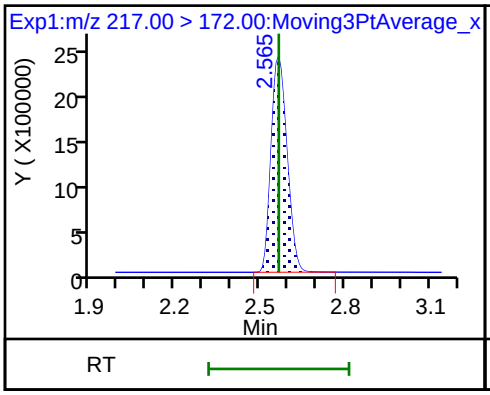
Client ID: MW-213

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 10 Worklist Smp#: 5

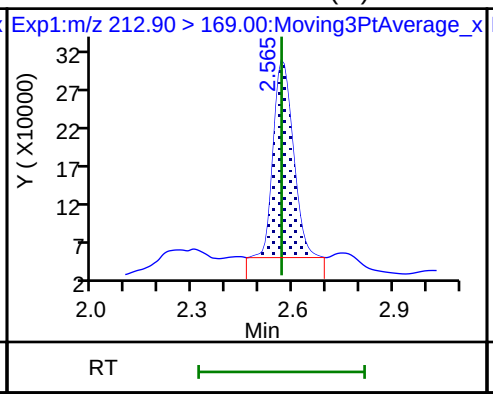
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

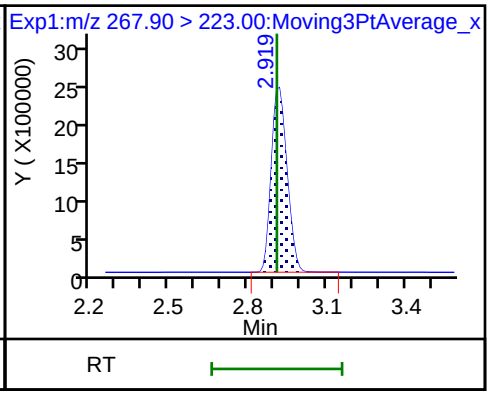
D 1 13C4 PFBA



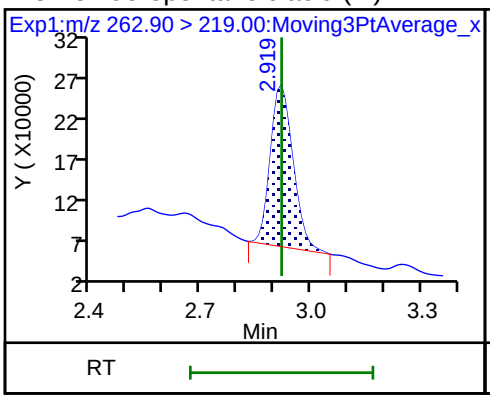
2 Perfluorobutanoic acid (M)



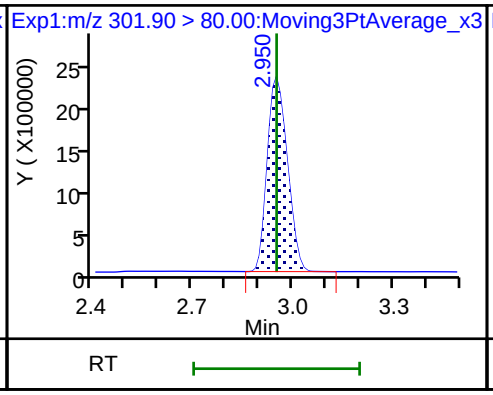
D 4 13C5 PFPeA



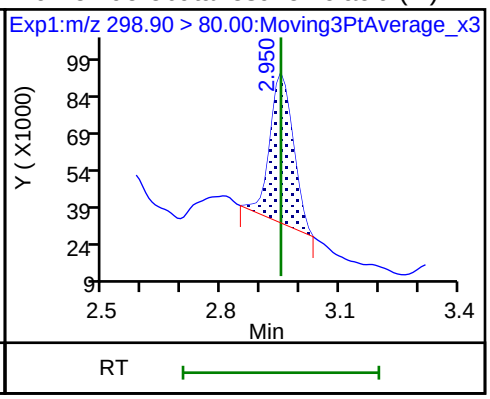
5 Perfluoropentanoic acid (M)



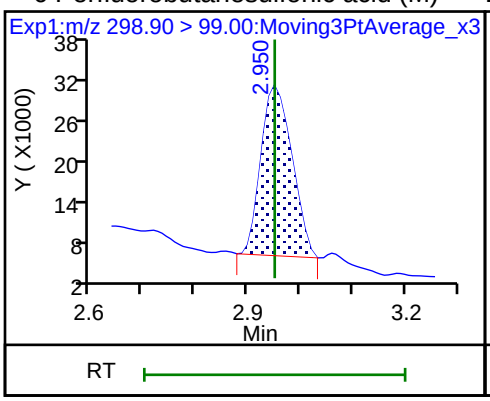
D 9 13C3 PFBS



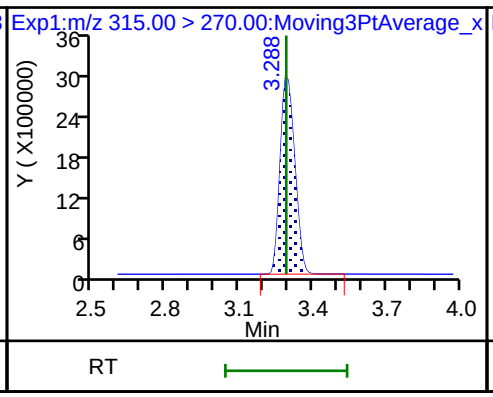
6 Perfluorobutanesulfonic acid (M)



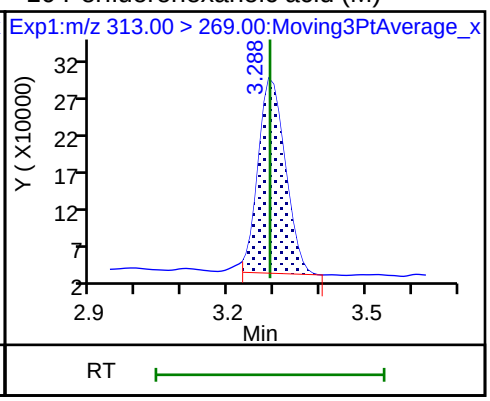
6 Perfluorobutanesulfonic acid (M)



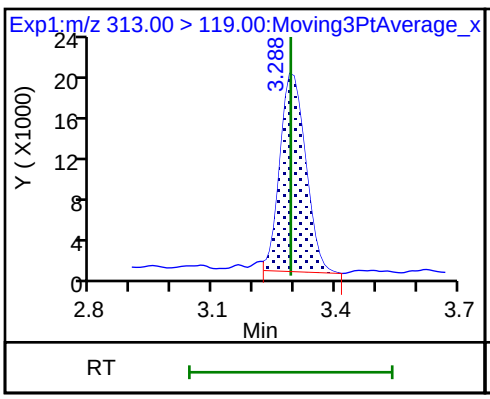
D 11 13C2 PFHxA



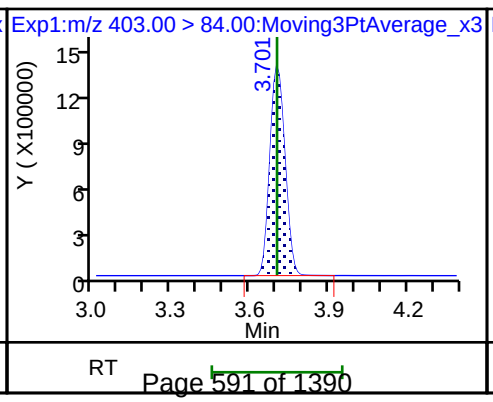
10 Perfluorohexanoic acid (M)



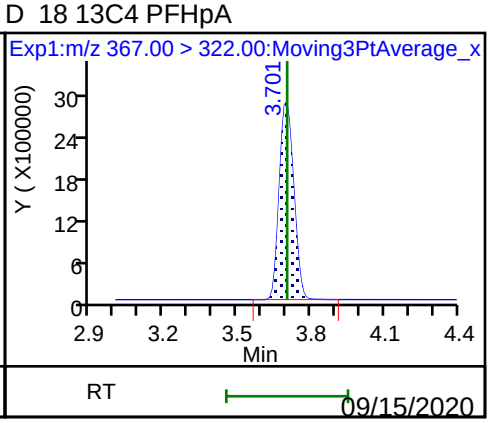
10 Perfluorohexanoic acid



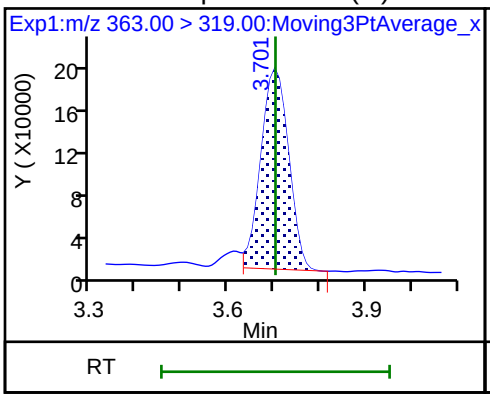
D 17 18O2 PFHxS



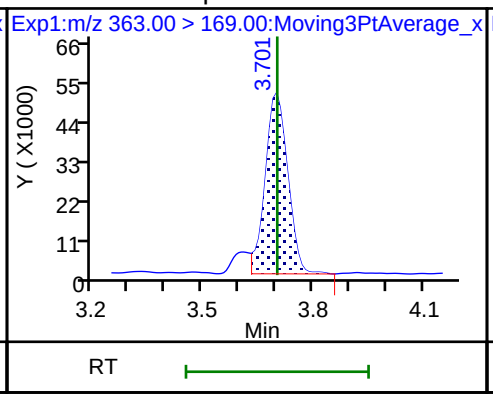
D 18 13C4 PFHpA



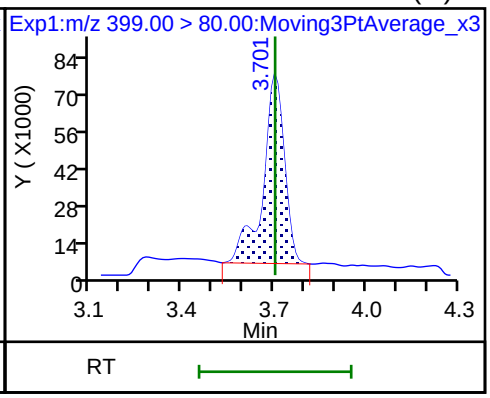
16 Perfluoroheptanoic acid (M)



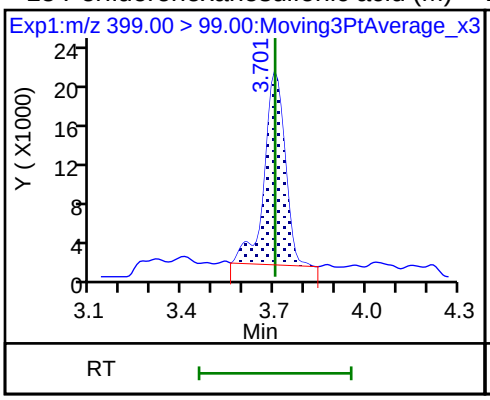
16 Perfluoroheptanoic acid



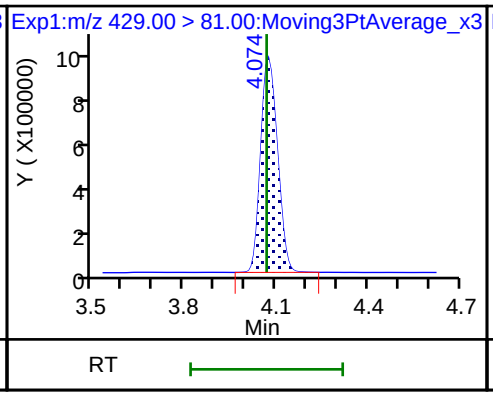
15 Perfluorohexanesulfonic acid (M)



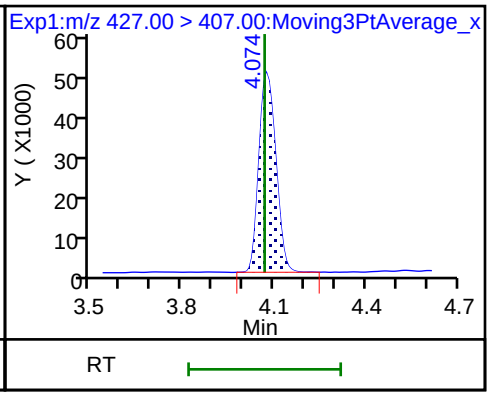
15 Perfluorohexanesulfonic acid (M)



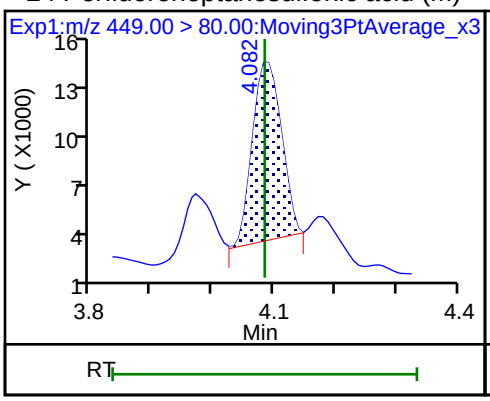
D 20 M2-6:2 FTS



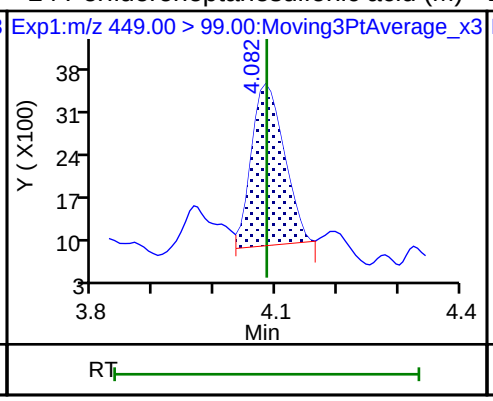
21 6:2 FTS



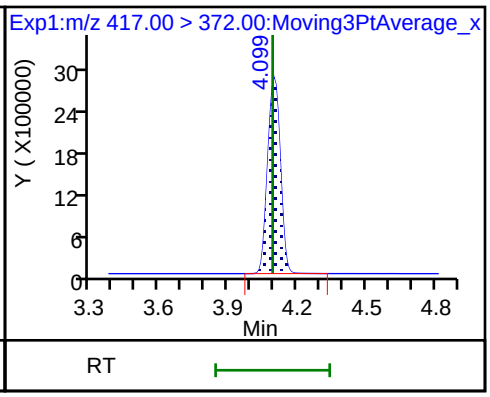
24 Perfluoroheptanesulfonic acid (M)



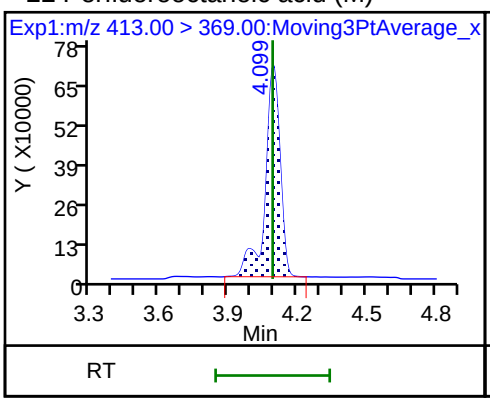
24 Perfluoroheptanesulfonic acid (M)



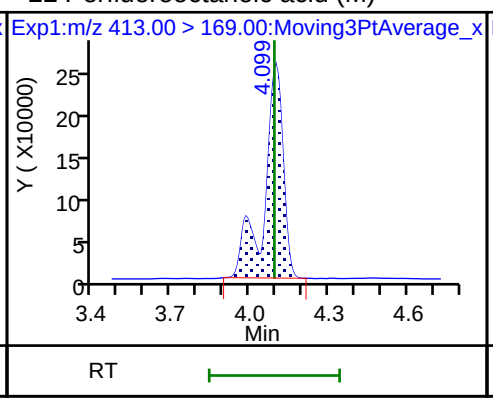
D 25 13C4 PFOA



22 Perfluorooctanoic acid (M)



22 Perfluorooctanoic acid (M)



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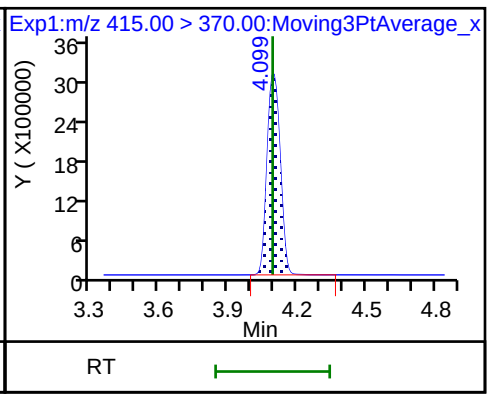
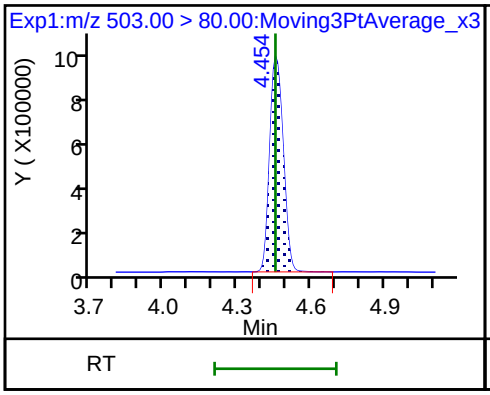
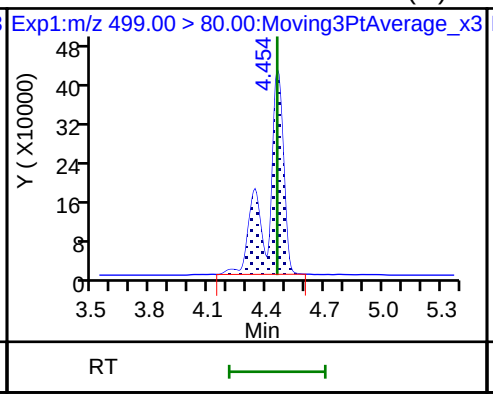


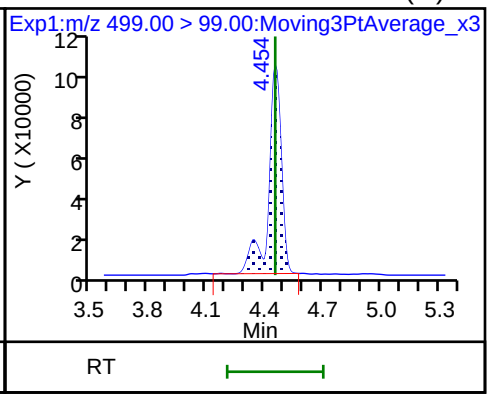
D 27 13C4 PFOS



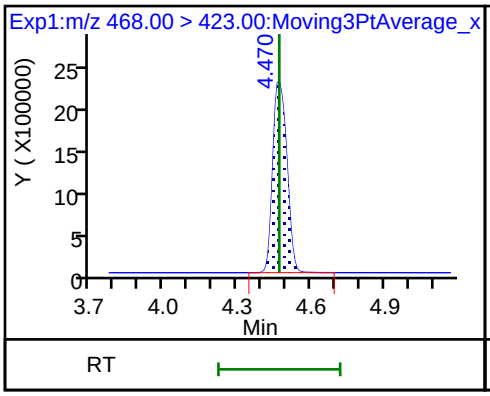
29 Perfluorooctanesulfonic acid (M)



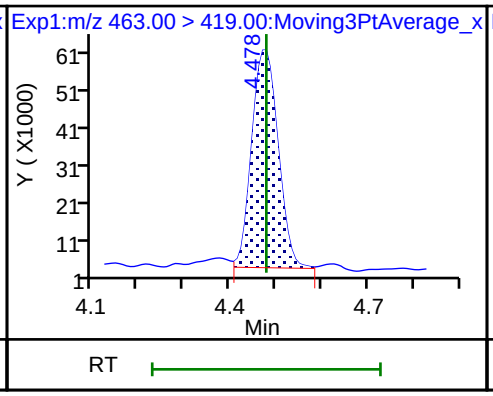
29 Perfluorooctanesulfonic acid (M)



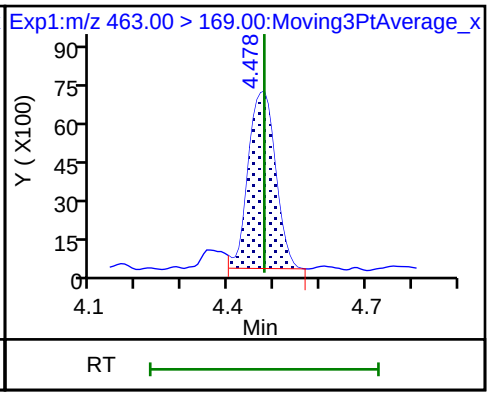
D 30 13C5 PFNA



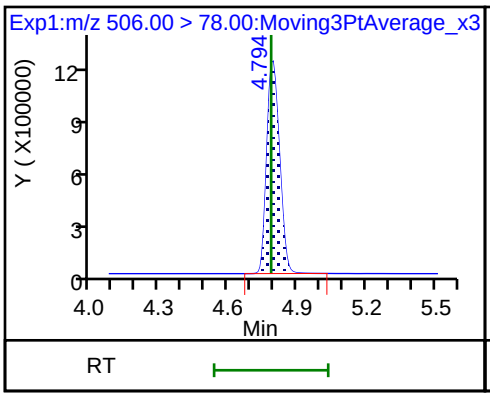
31 Perfluorononanoic acid



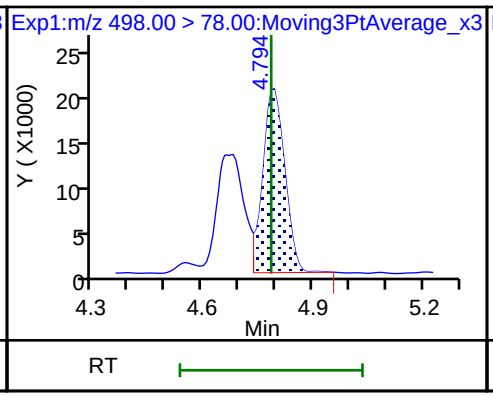
31 Perfluorononanoic acid



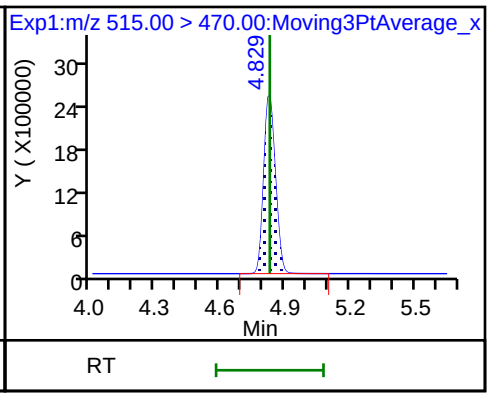
D 33 13C8 FOSA



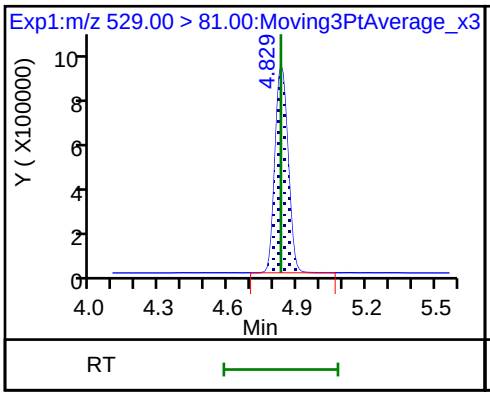
34 Perfluorooctanesulfonamide



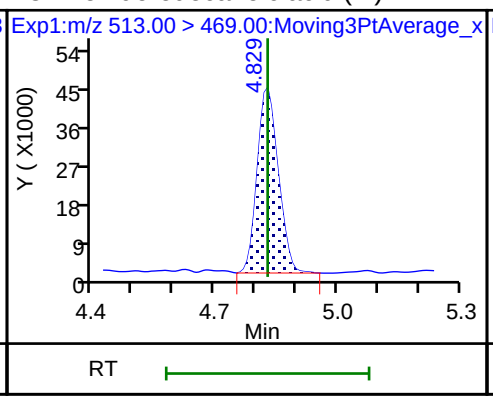
D 39 13C2 PFDA



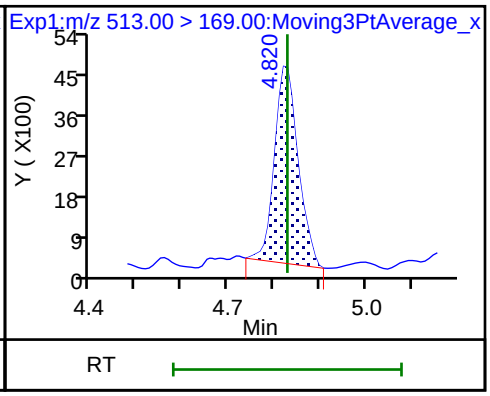
D 38 M2-8:2 FTS



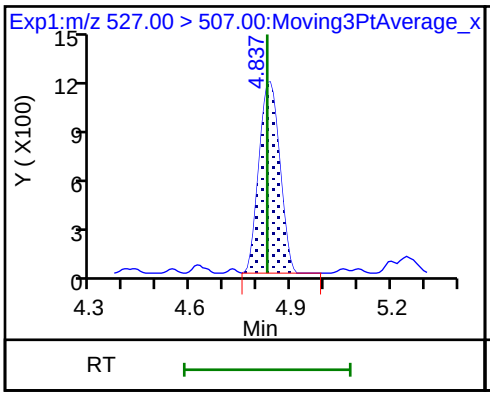
37 Perfluorodecanoic acid (M)



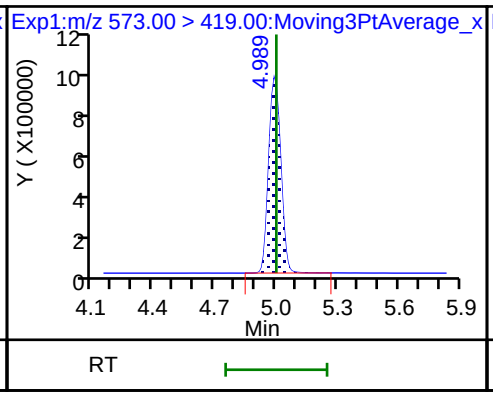
37 Perfluorodecanoic acid



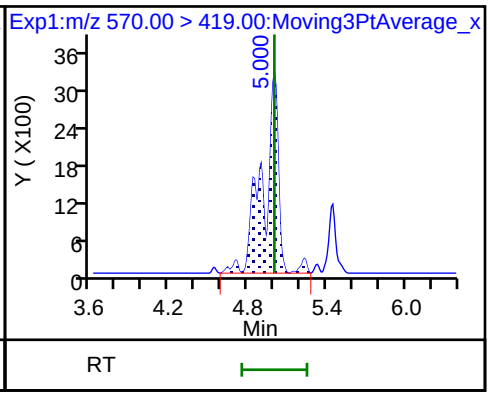
36 8:2 FTS



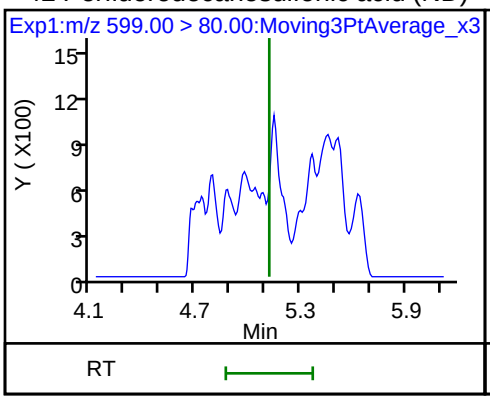
D 40 d3-NMeFOSAA



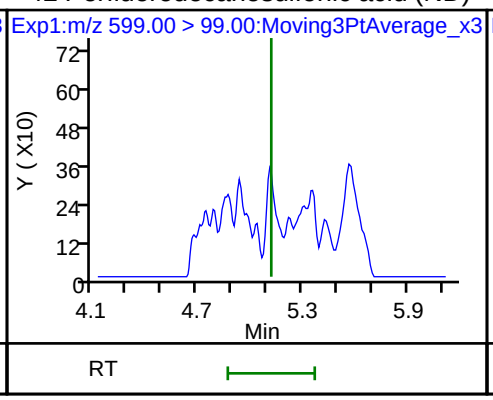
41 NMeFOSAA



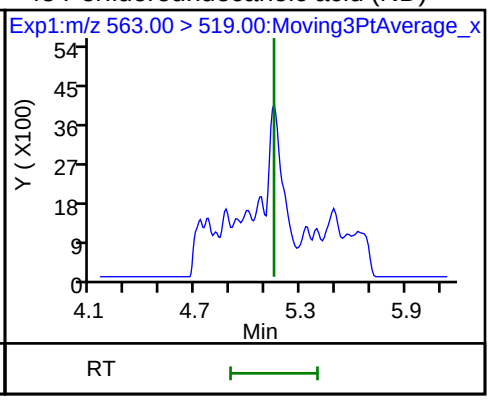
42 Perfluorodecanesulfonic acid (ND)



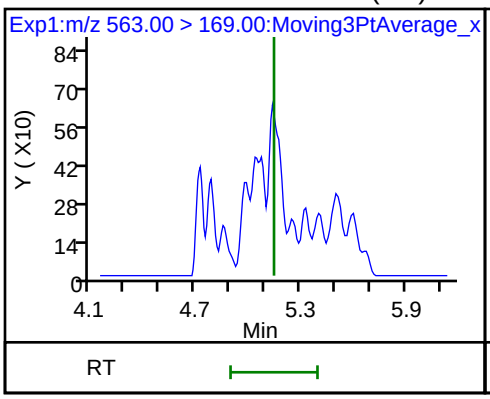
42 Perfluorodecanesulfonic acid (ND)



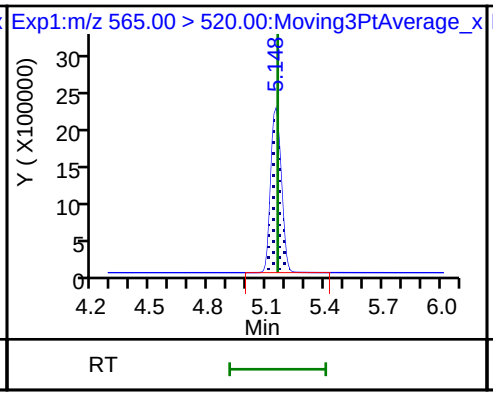
45 Perfluoroundecanoic acid (ND)



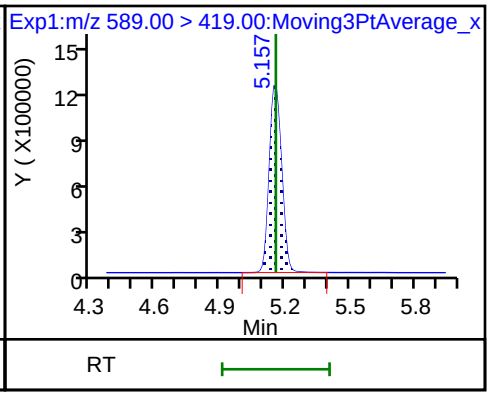
45 Perfluoroundecanoic acid (ND)



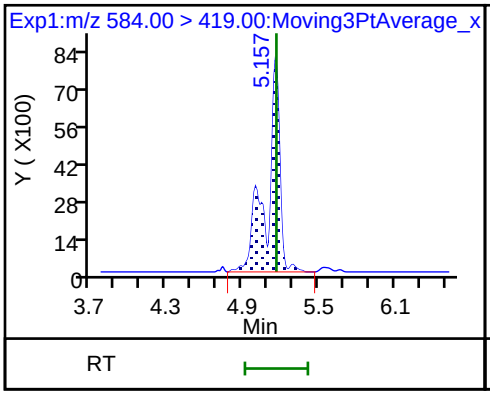
D 43 13C2 PFUnA



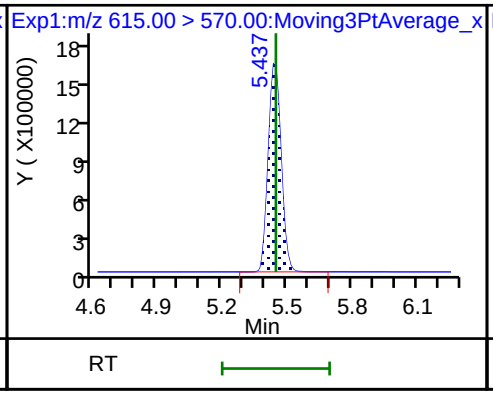
D 44 d5-NEtFOSAA



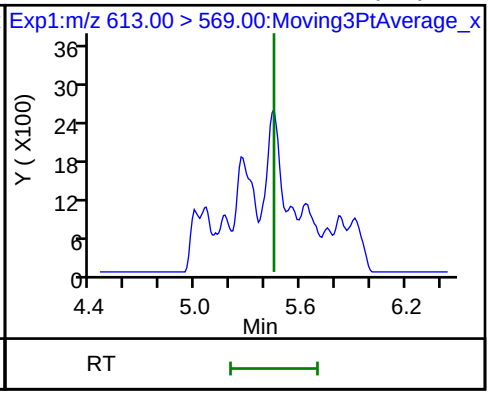
46 NEtFOSA



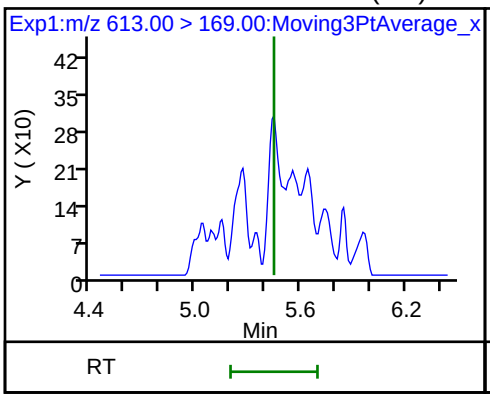
D 56 13C2 PFDoA



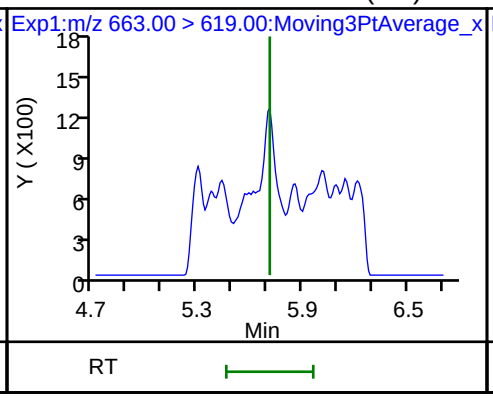
57 Perfluorododecanoic acid (ND)



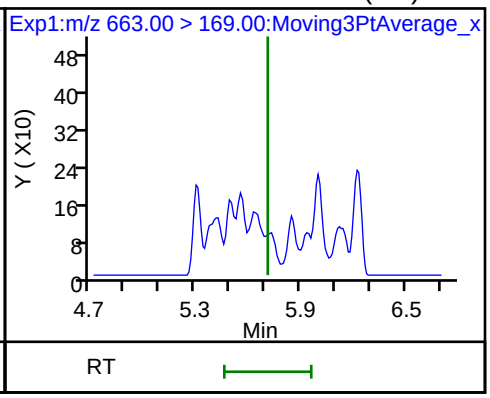
57 Perfluorododecanoic acid (ND)



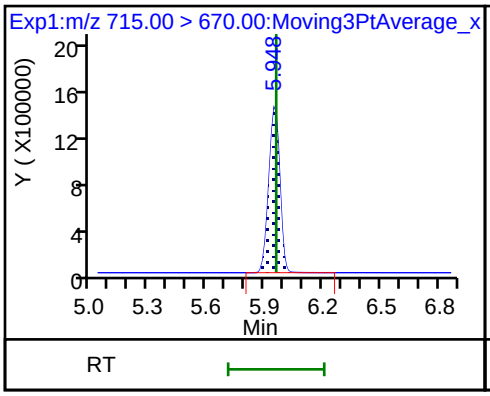
60 Perfluorotridecanoic acid (ND)



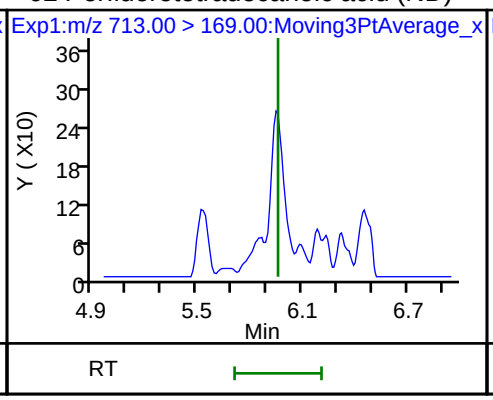
60 Perfluorotridecanoic acid (ND)



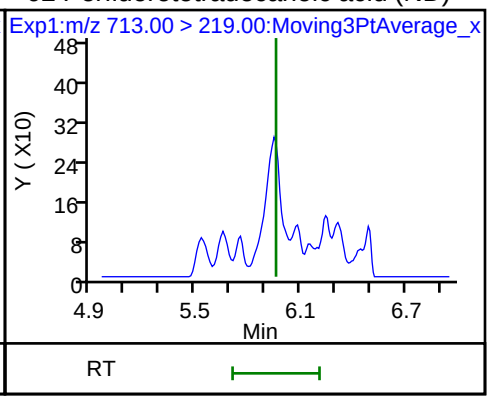
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

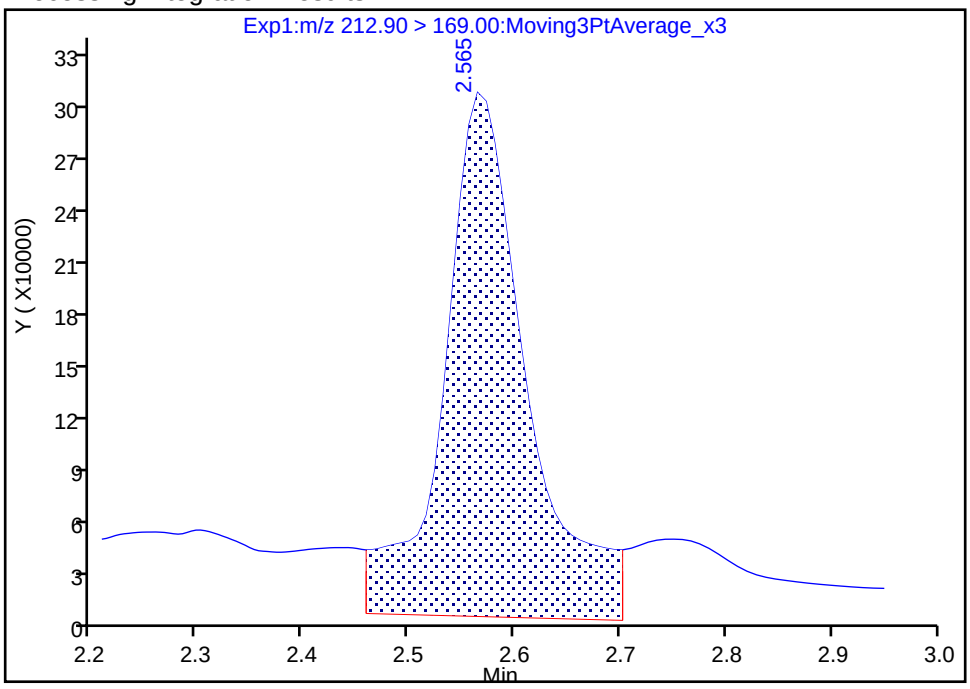
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

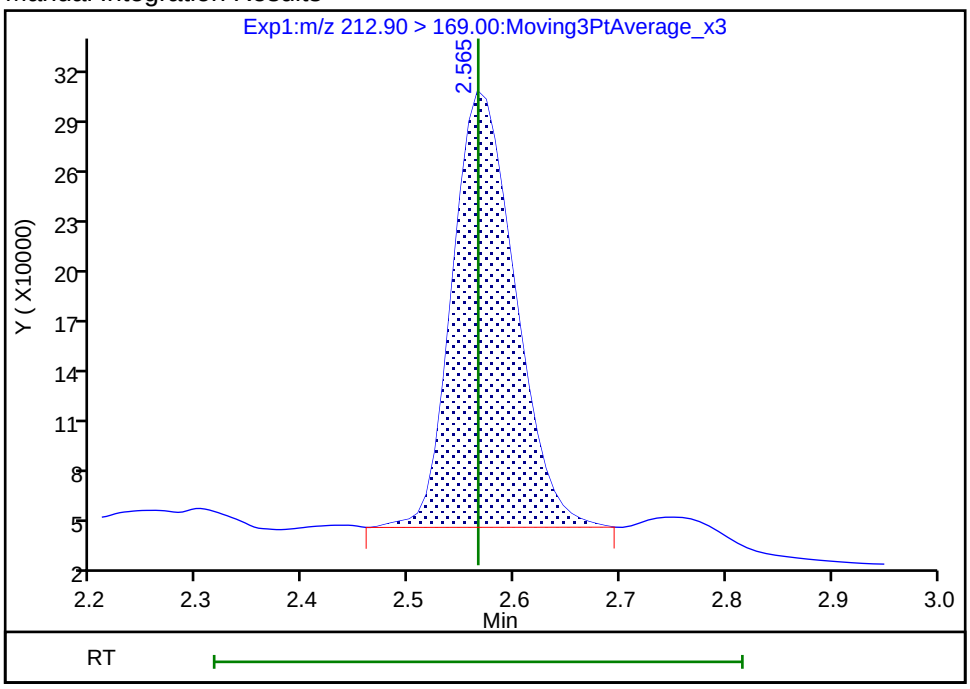
Processing Integration Results

RT: 2.56
Area: 1621274
Amount: 0.502180
Amount Units: ng/ml



Manual Integration Results

RT: 2.56
Area: 1067902
Amount: 0.330776
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:04:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

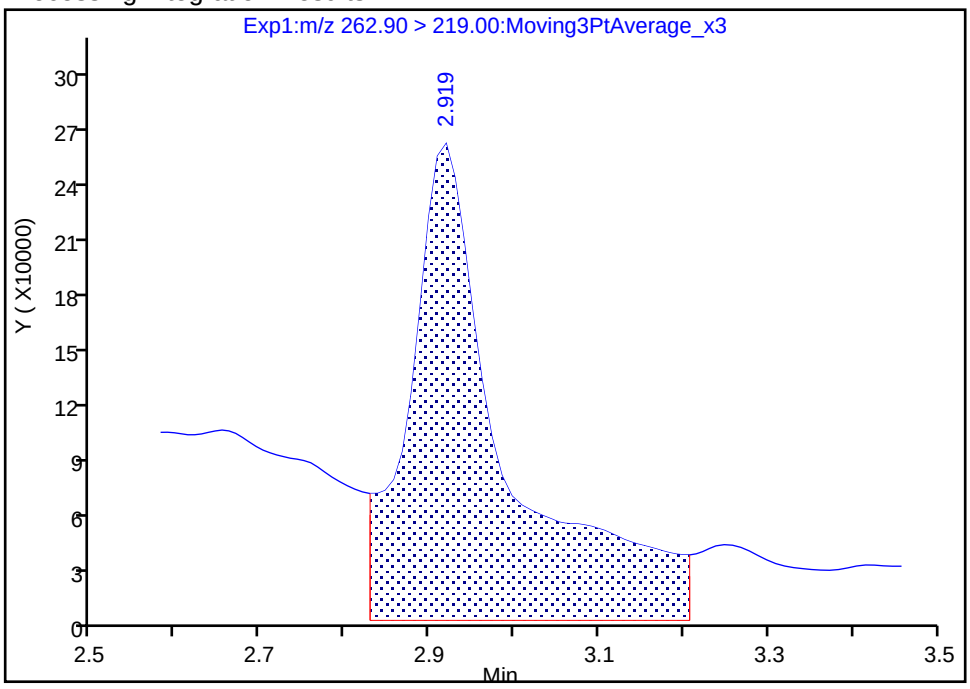
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

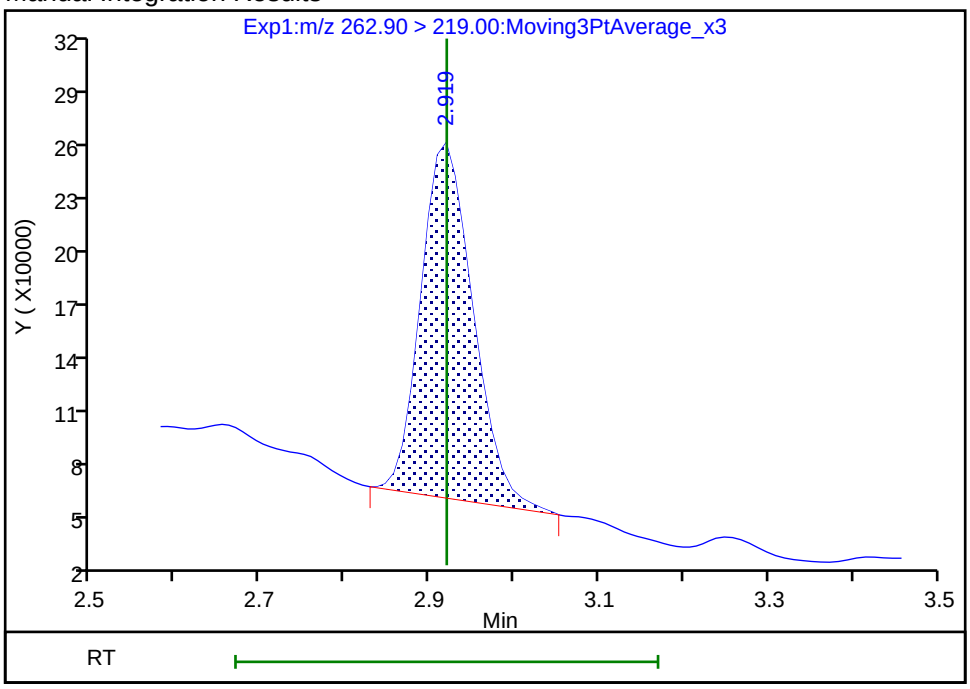
Processing Integration Results

RT: 2.92
Area: 2054104
Amount: 0.512097
Amount Units: ng/ml



Manual Integration Results

RT: 2.92
Area: 832729
Amount: 0.207603
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:04:14

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

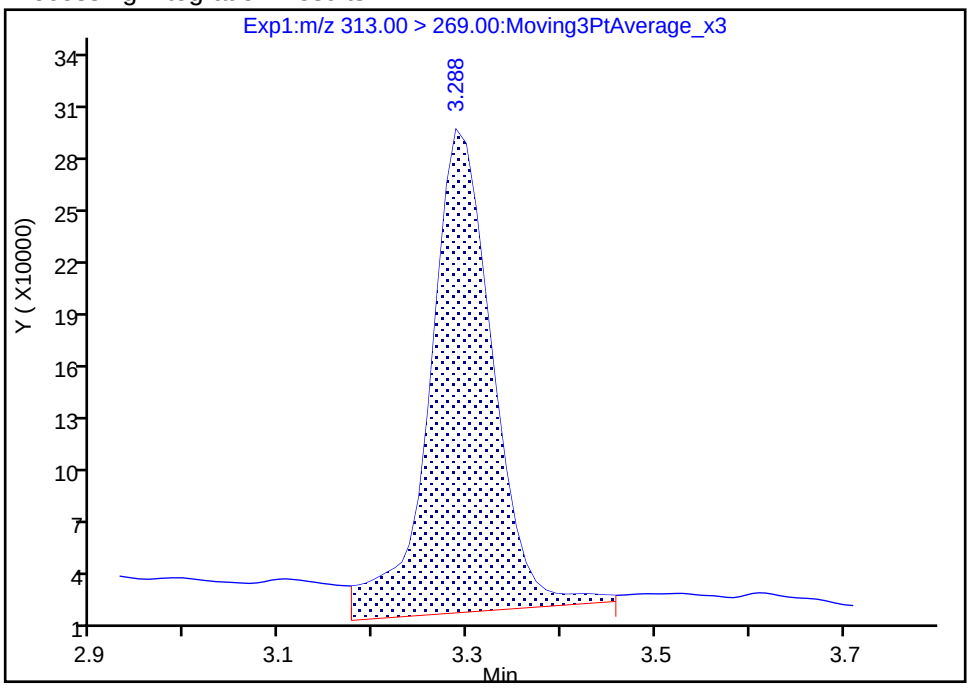
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

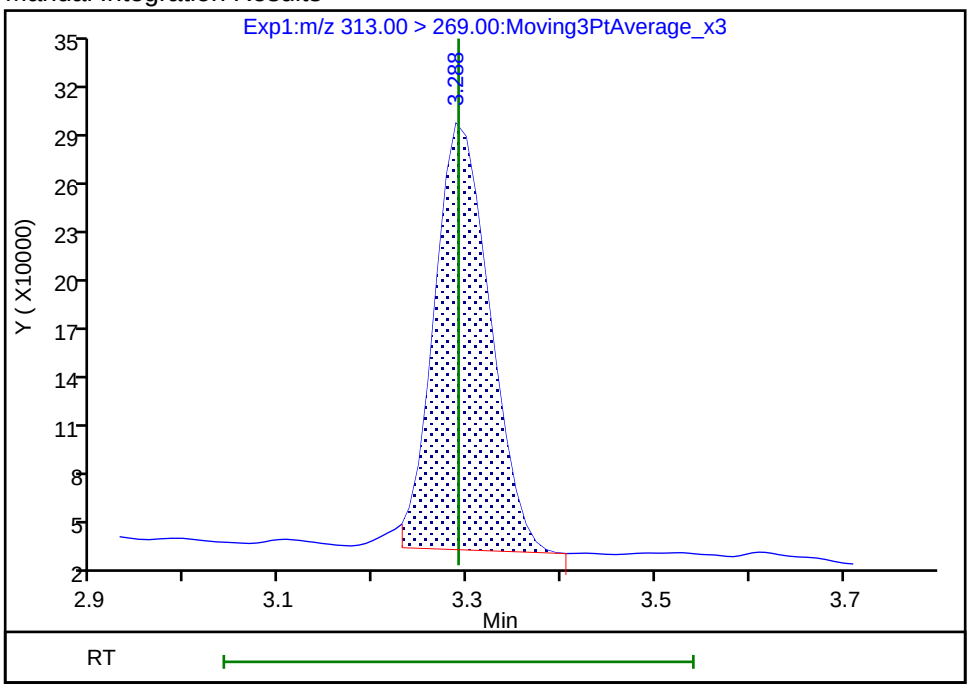
Processing Integration Results

RT: 3.29
Area: 1267645
Amount: 0.274423
Amount Units: ng/ml



Manual Integration Results

RT: 3.29
Area: 1060602
Amount: 0.229601
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:04:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

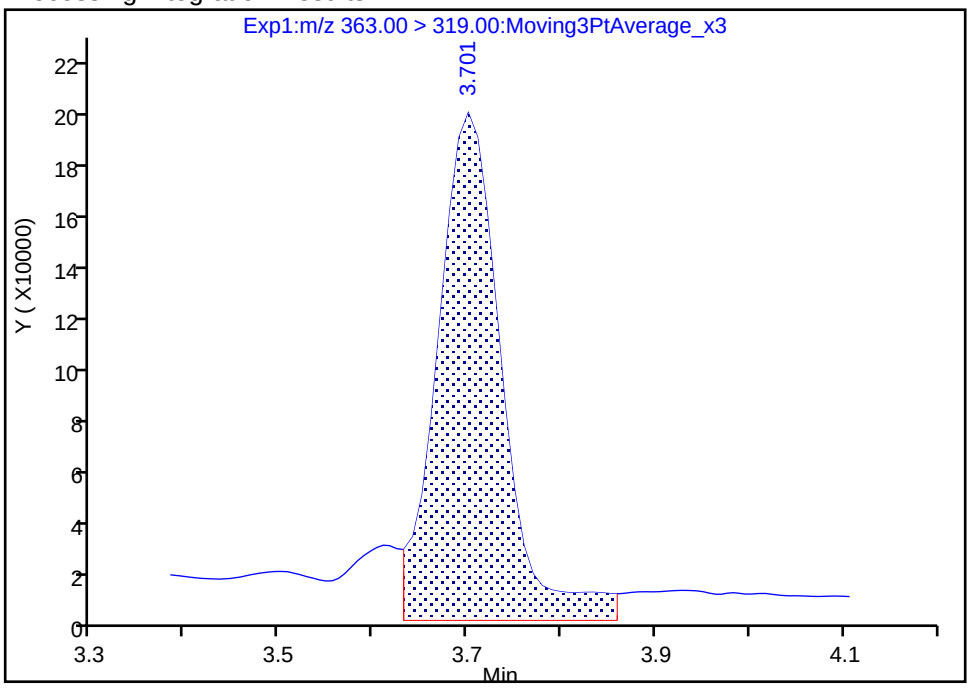
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

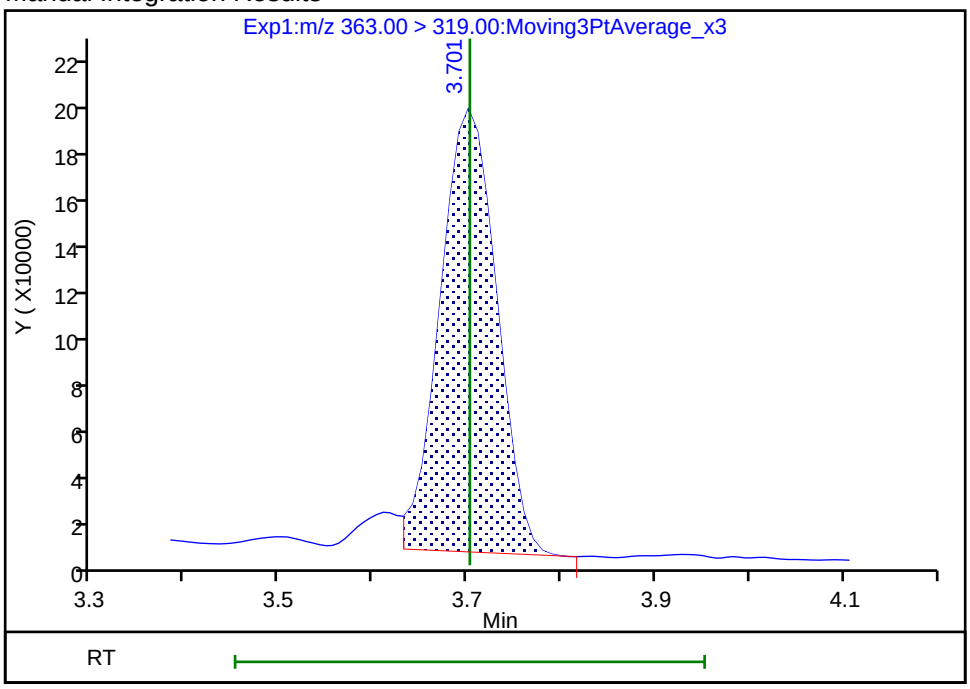
Processing Integration Results

RT: 3.70
Area: 922570
Amount: 0.197468
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 761389
Amount: 0.162969
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:04:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

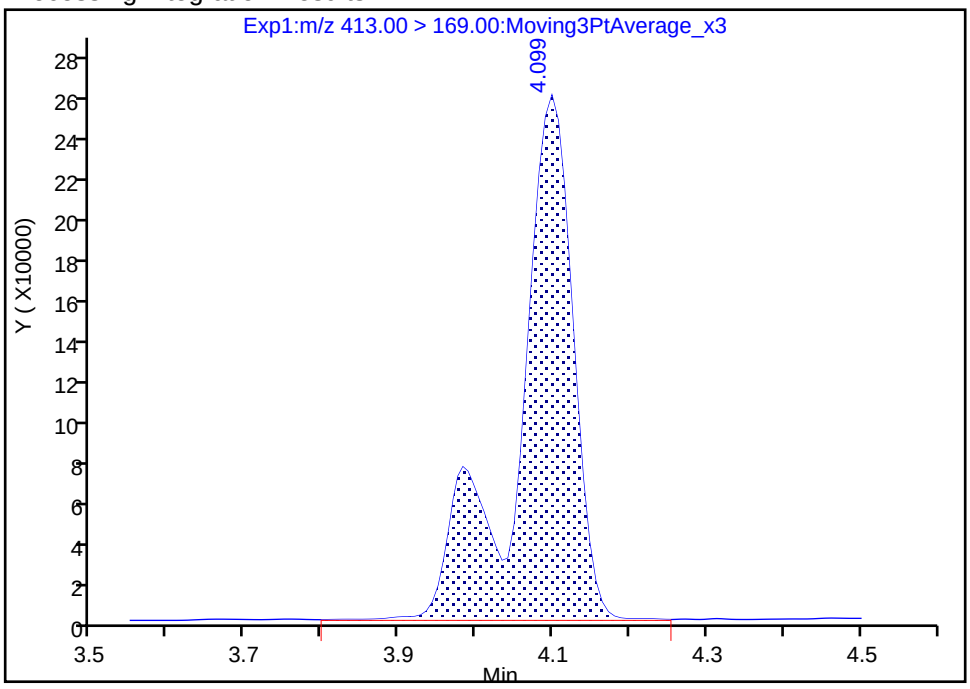
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

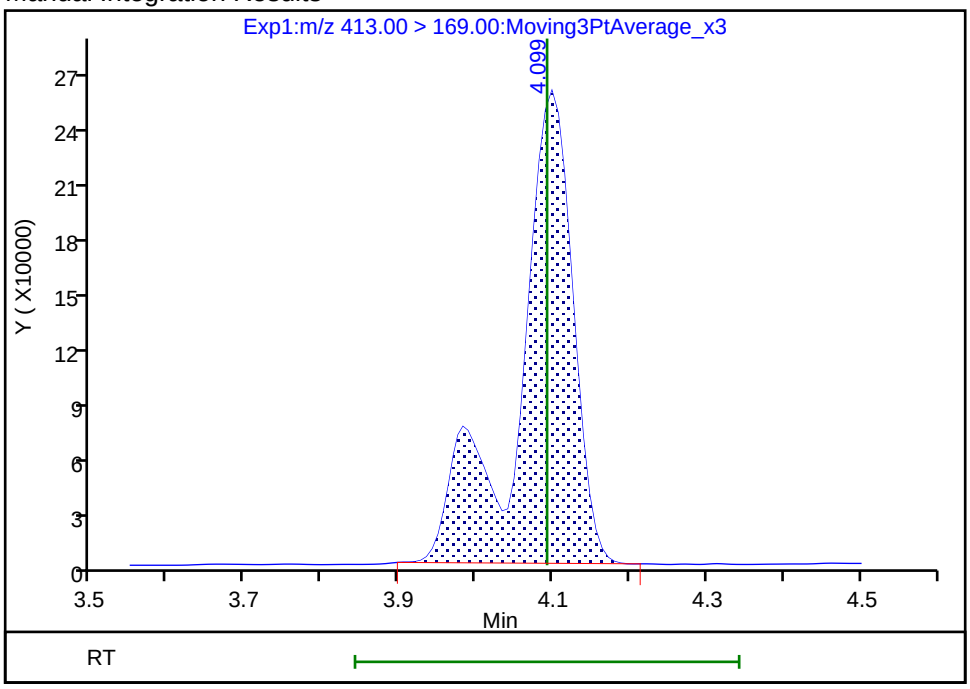
Processing Integration Results

RT: 4.10
Area: 1292734
Amount: 0.754345
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 1265974
Amount: 0.704287
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

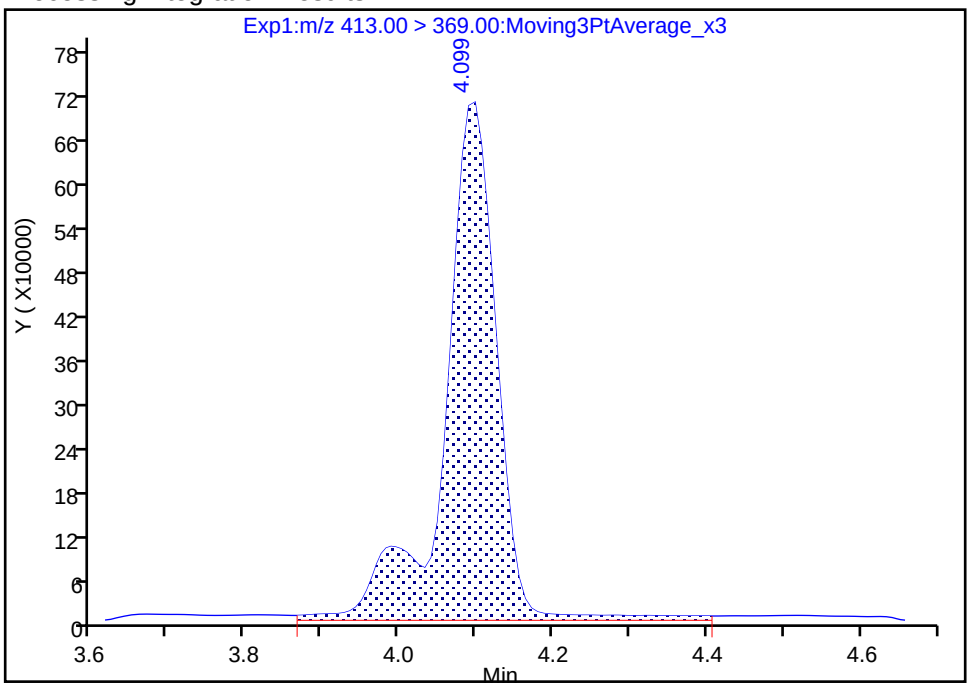
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

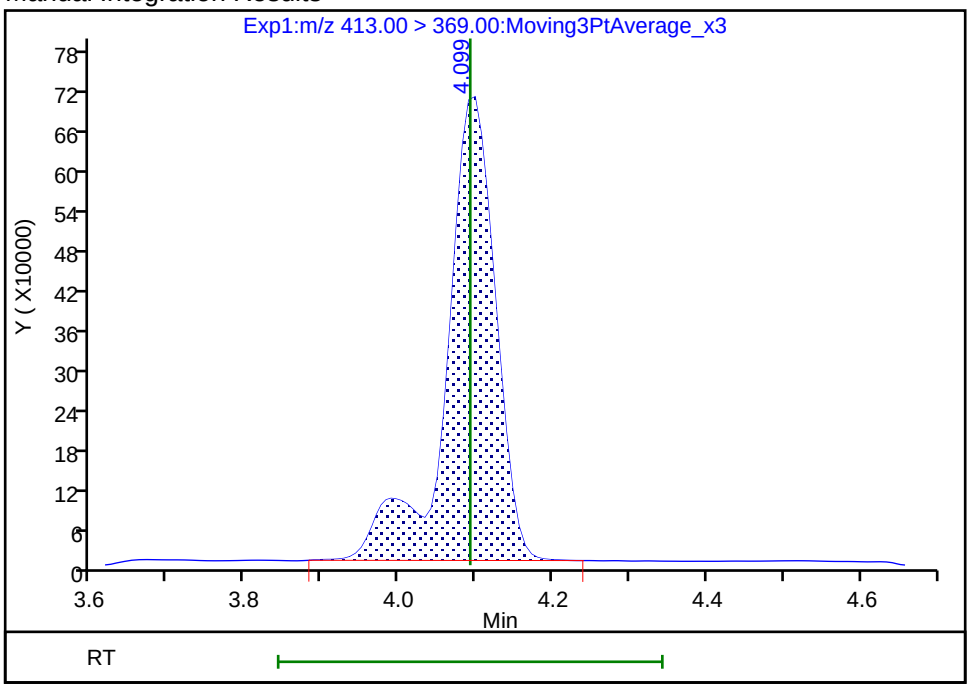
Processing Integration Results

RT: 4.10
Area: 3372122
Amount: 0.754345
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 3148349
Amount: 0.704287
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:43
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

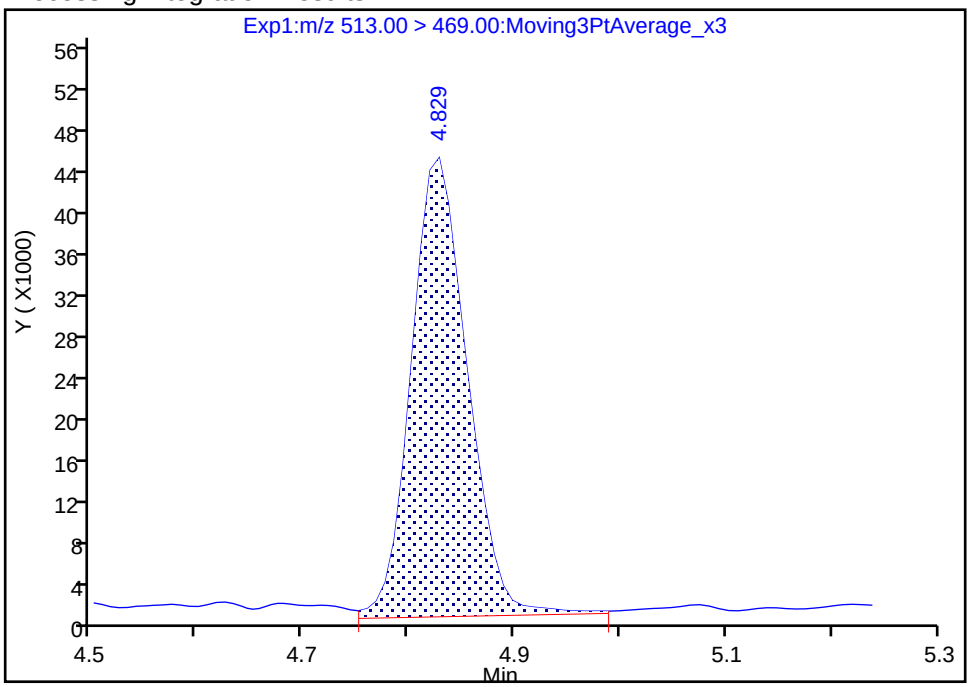
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

37 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

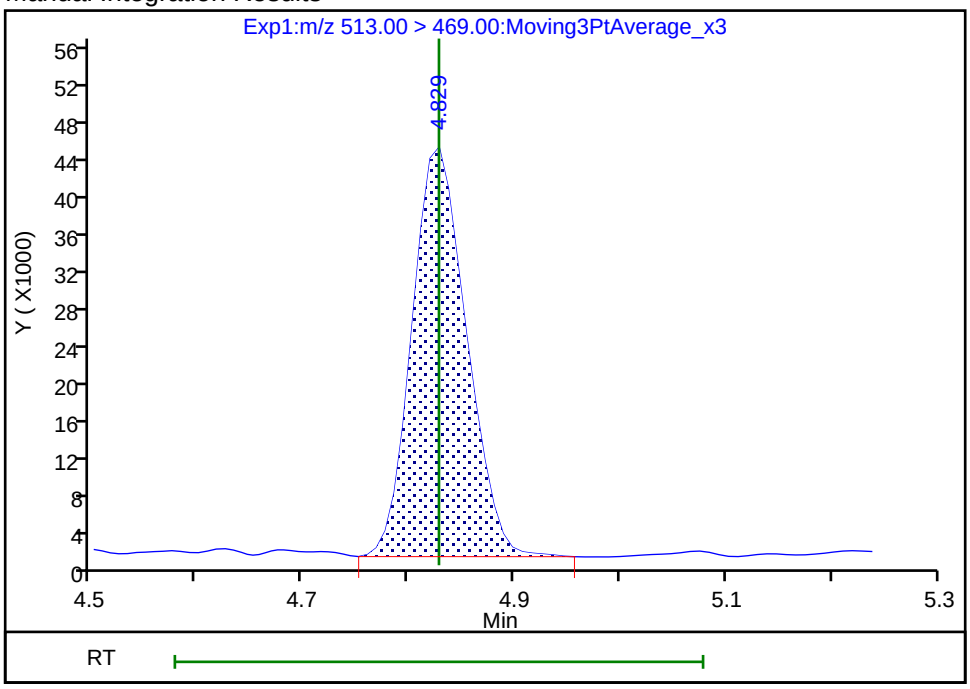
Processing Integration Results

RT: 4.83
Area: 161237
Amount: 0.044618
Amount Units: ng/ml



Manual Integration Results

RT: 4.83
Area: 154449
Amount: 0.042739
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:06:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

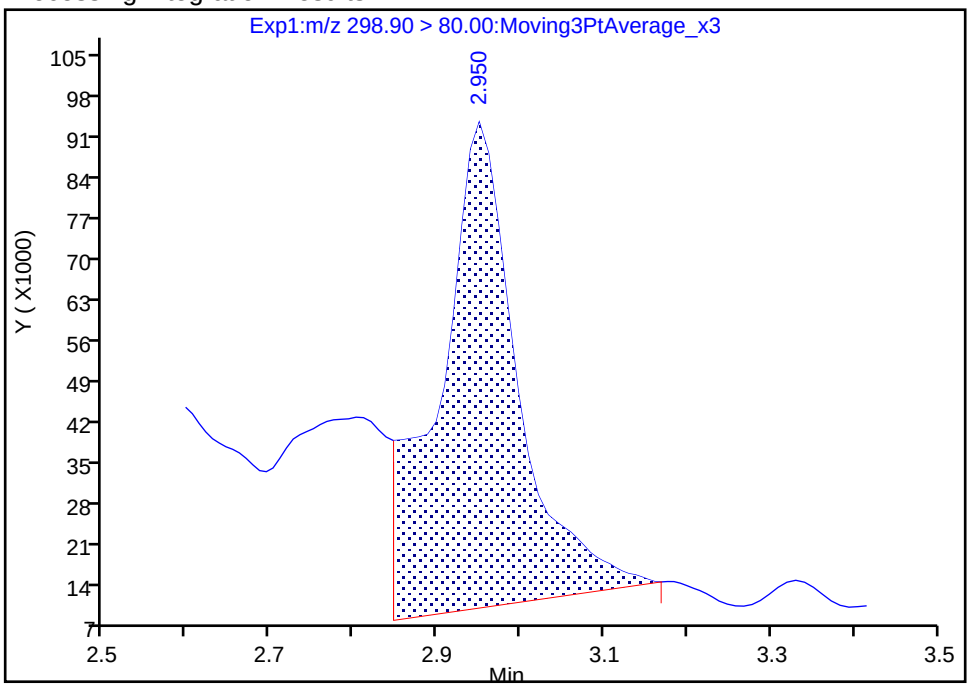
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

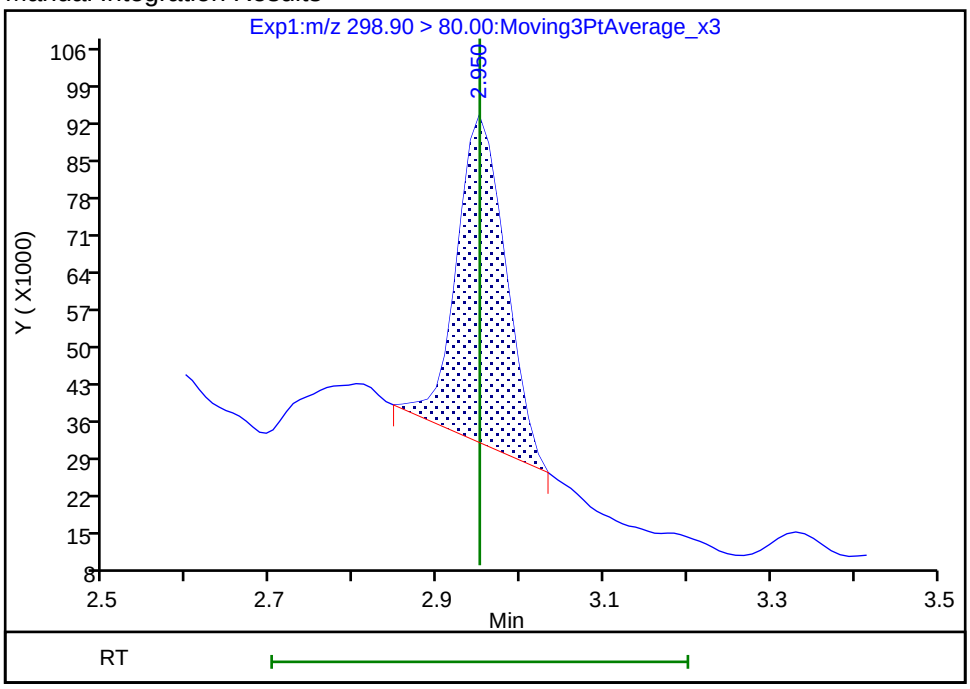
Processing Integration Results

RT: 2.95
Area: 547620
Amount: 0.131951
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 250763
Amount: 0.060422
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:04:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

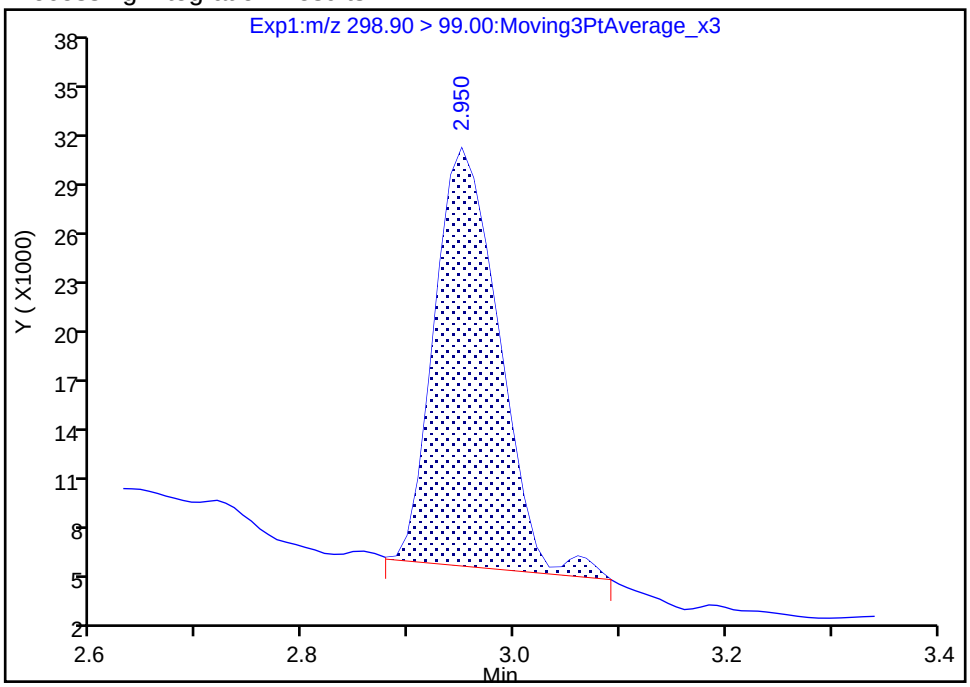
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

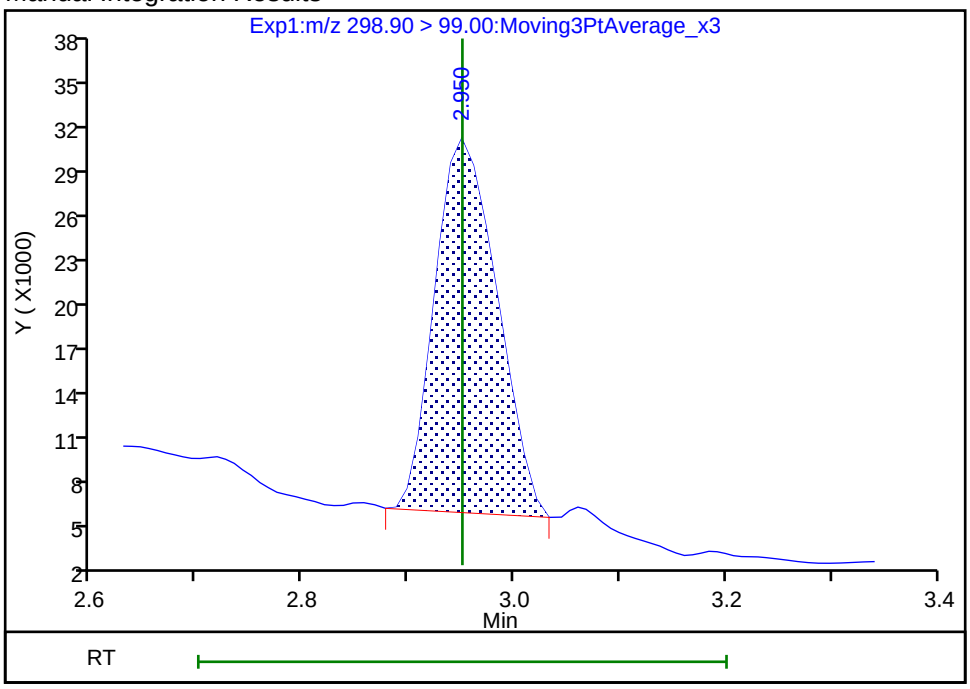
Processing Integration Results

RT: 2.95
Area: 105715
Amount: 0.131951
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 100991
Amount: 0.060422
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:04:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

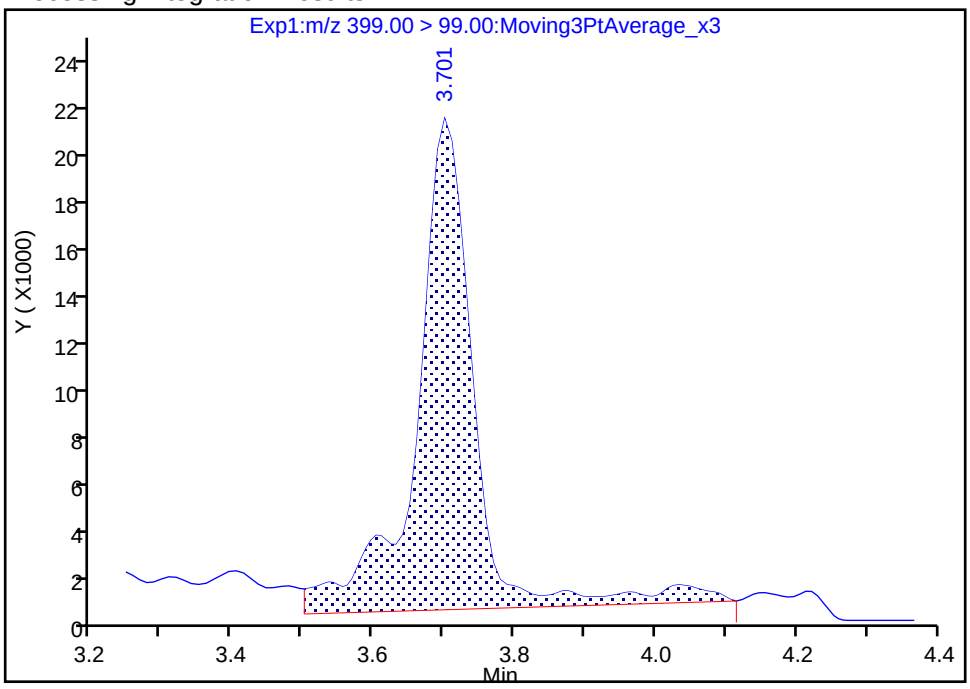
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

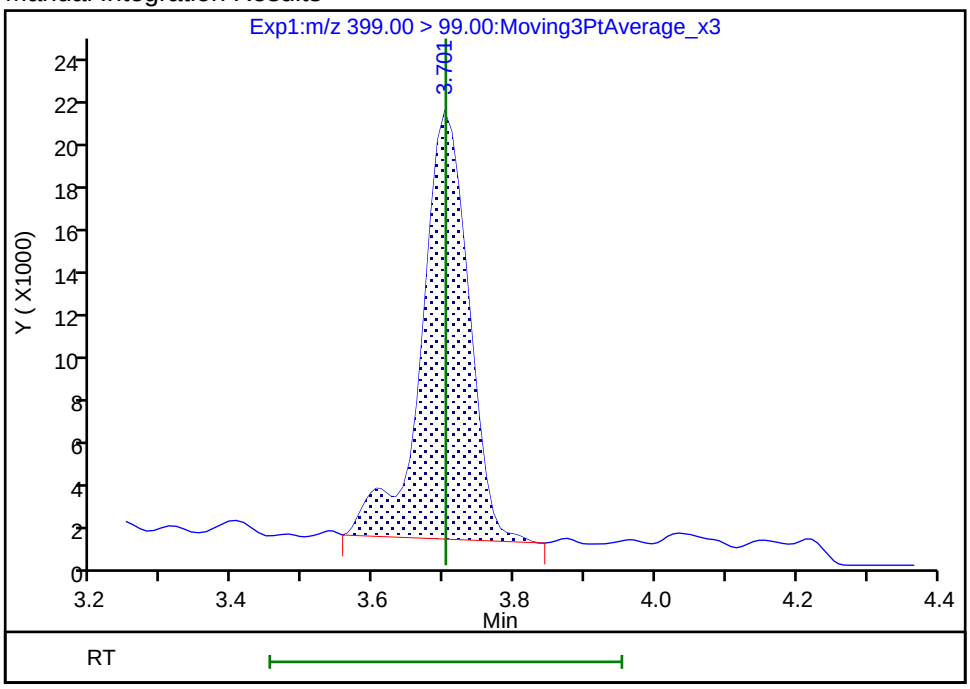
Processing Integration Results

RT: 3.70
Area: 117968
Amount: 0.159358
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 93275
Amount: 0.131168
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:04

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

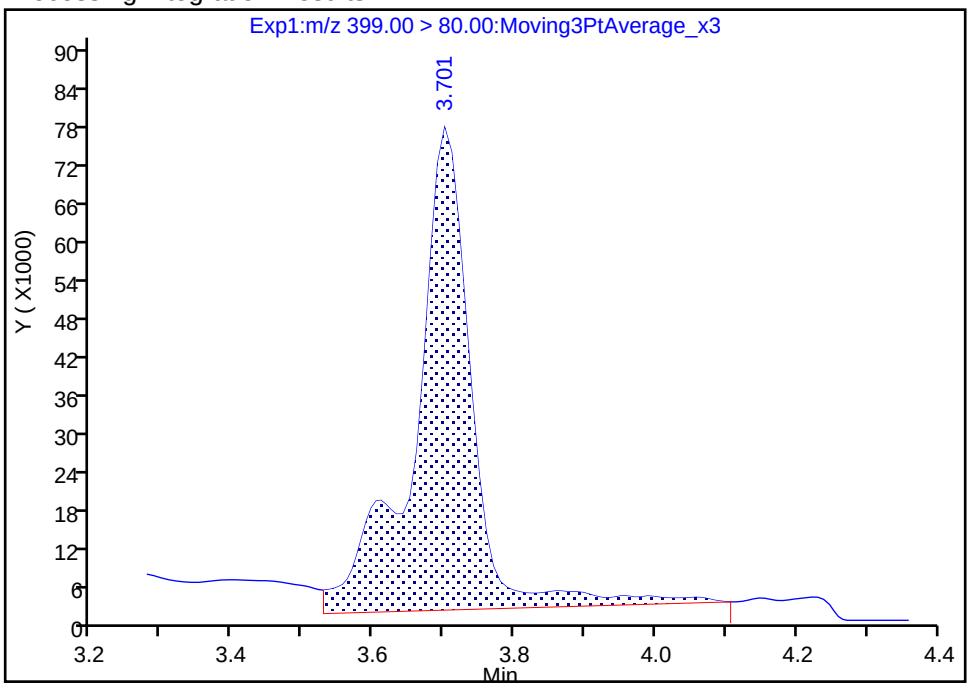
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

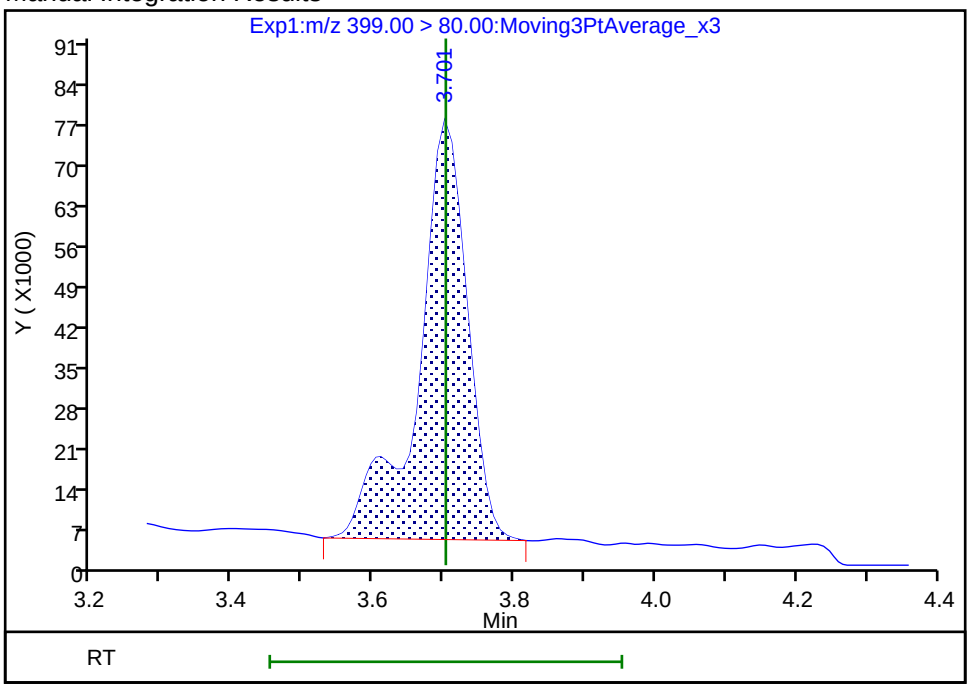
Processing Integration Results

RT: 3.70
Area: 425951
Amount: 0.159358
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 350602
Amount: 0.131168
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:10
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

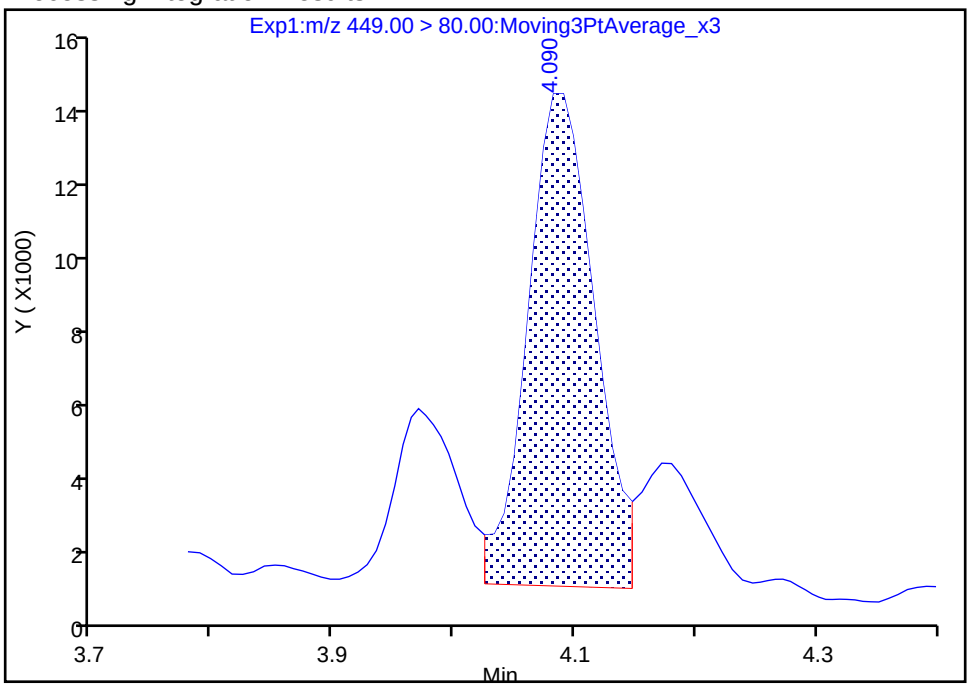
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

24 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

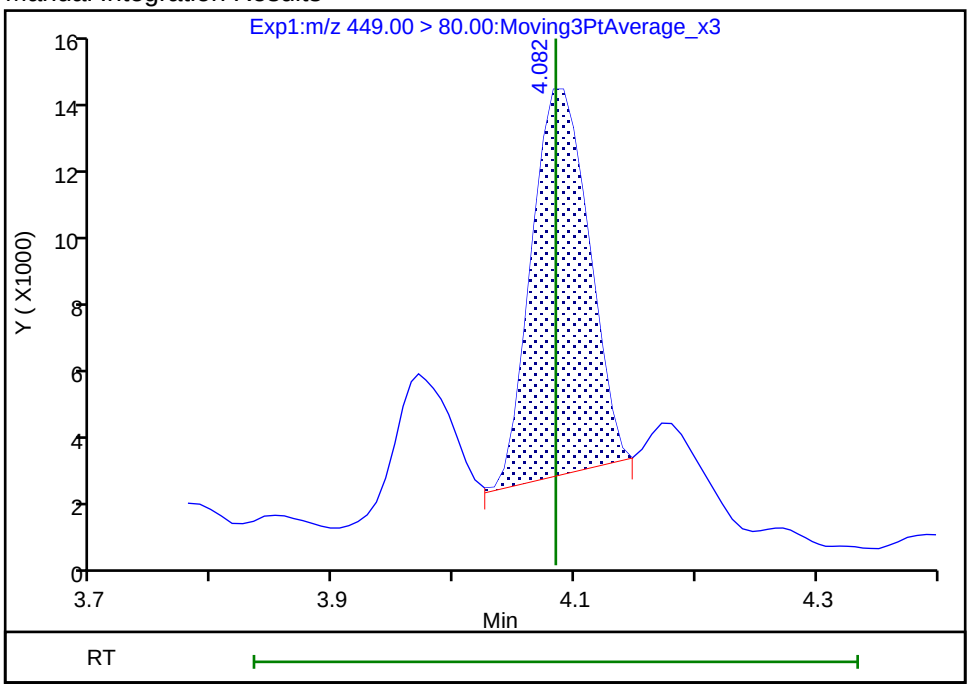
Processing Integration Results

RT: 4.09
Area: 45839
Amount: 0.028158
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 34272
Amount: 0.021053
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

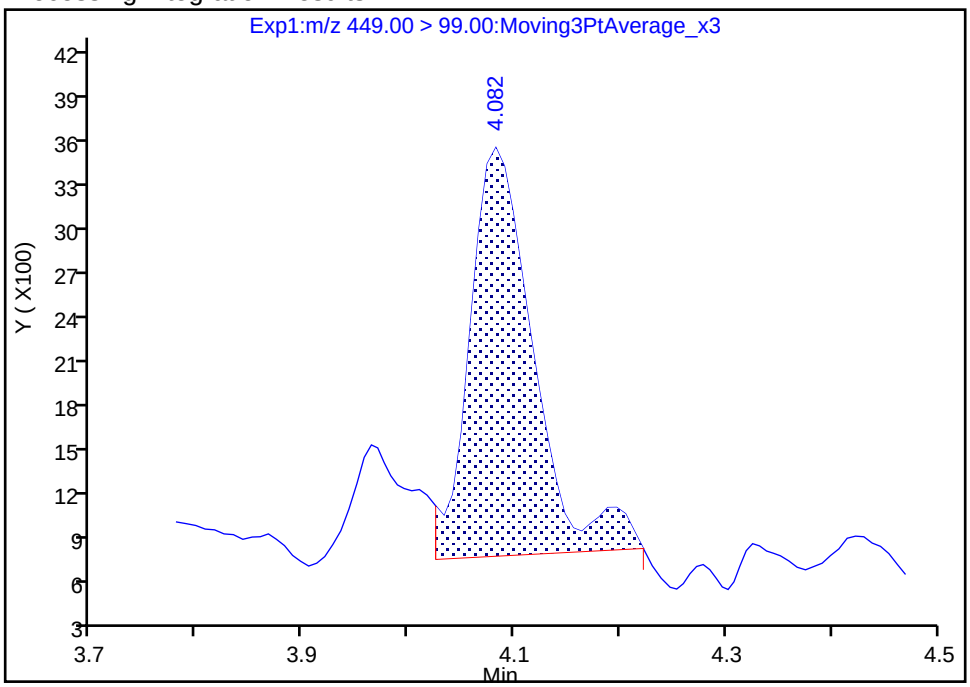
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

24 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

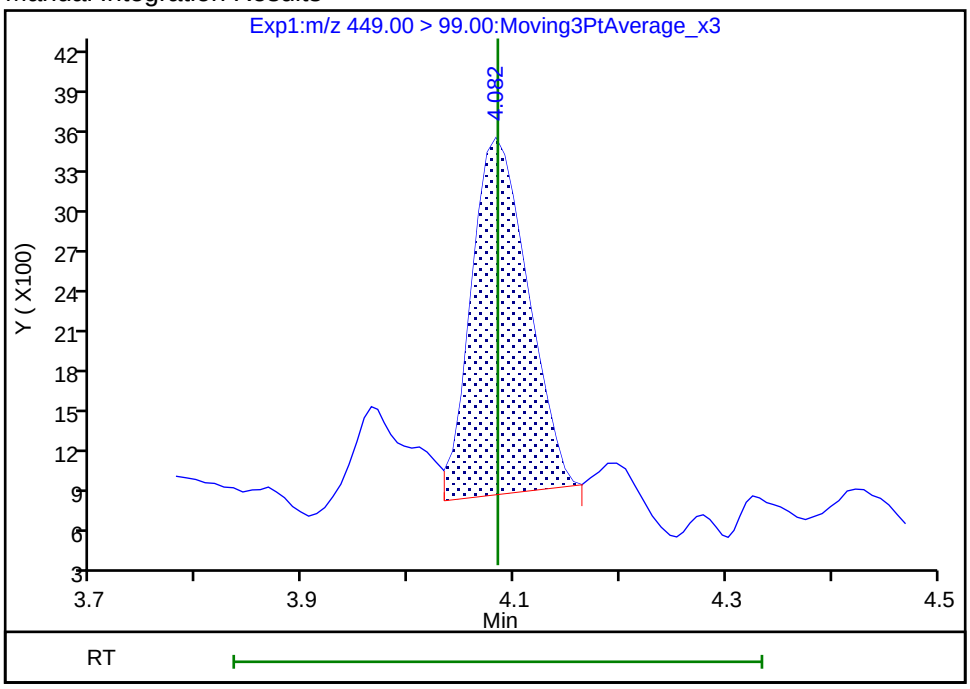
Processing Integration Results

RT: 4.08
Area: 11379
Amount: 0.028158
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 9737
Amount: 0.021053
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

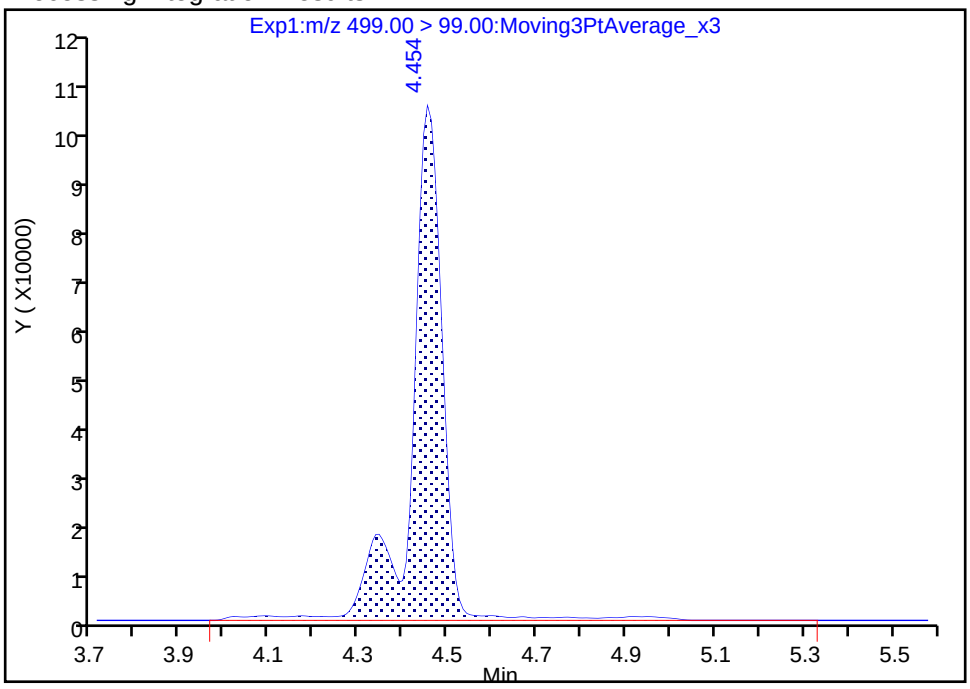
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

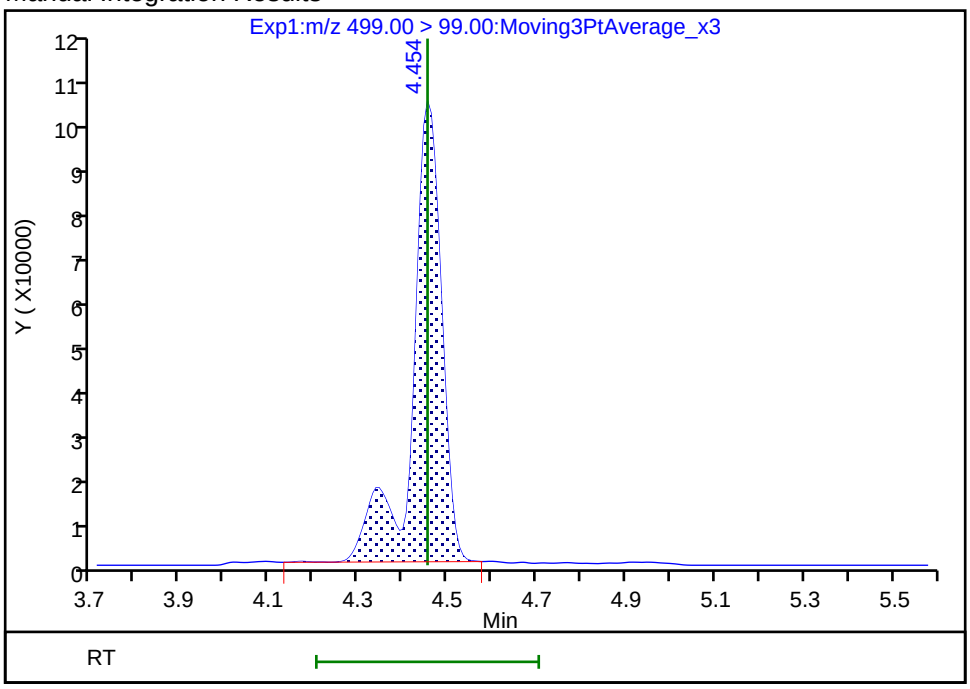
Processing Integration Results

RT: 4.45
Area: 487318
Amount: 1.638739
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 448988
Amount: 1.612521
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:52

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

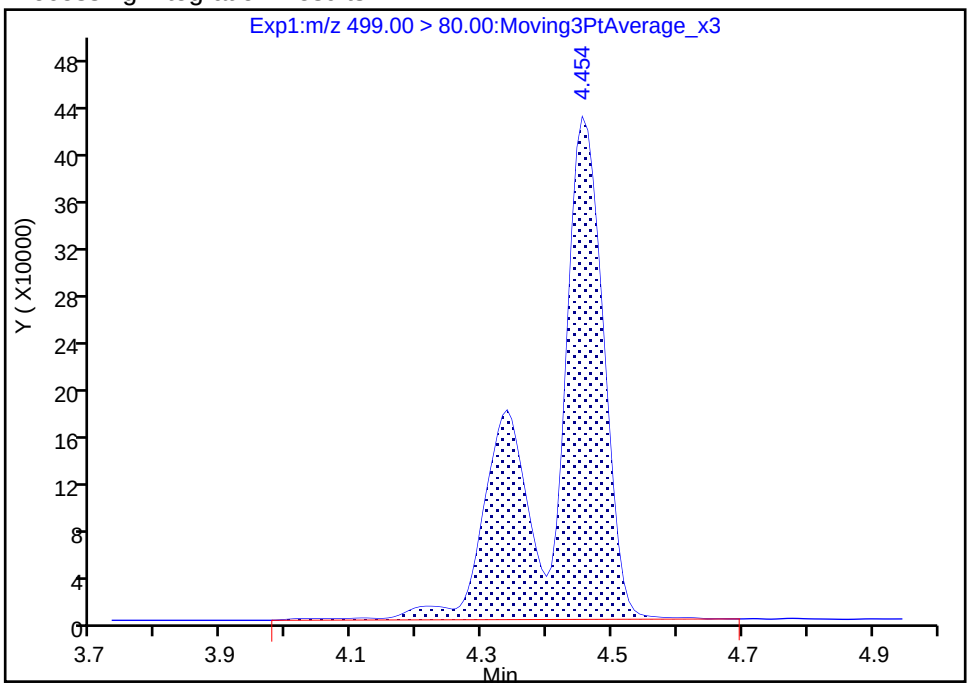
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_019.d				
Injection Date:	11-Sep-2020 13:09:17	Instrument ID:	A18		
Lims ID:	460-217547-E-5-A	Lab Sample ID:	320-217547-5		
Client ID:	MW-213				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	10	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

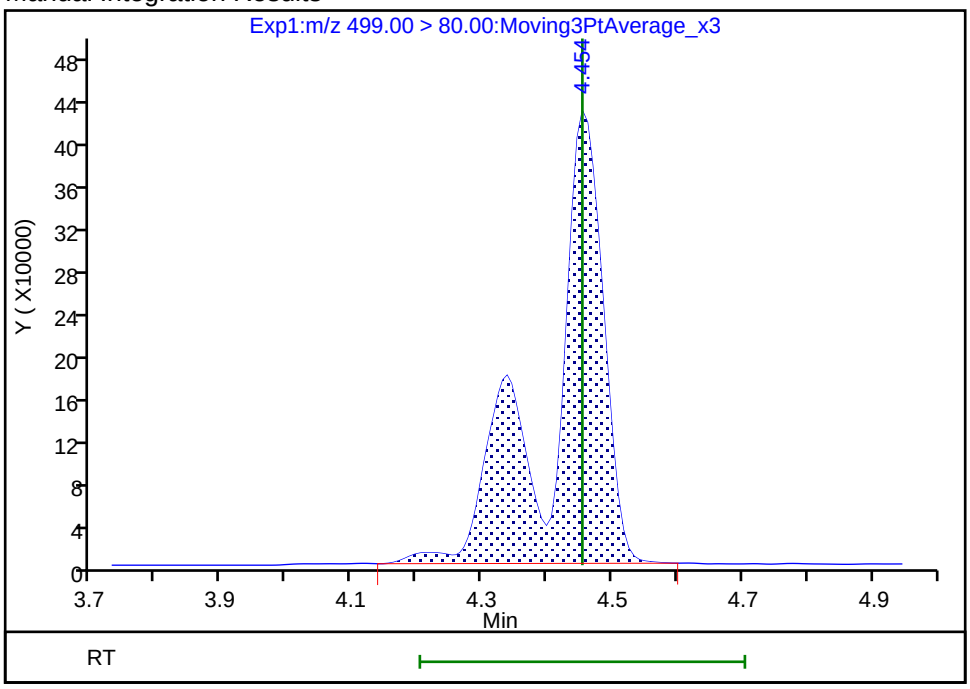
Processing Integration Results

RT: 4.45
Area: 2470600
Amount: 1.638739
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 2431074
Amount: 1.612521
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:05:58
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 460-217547-6

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_020.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 00:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250.8(mL) Date Analyzed: 09/11/2020 13:18

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.70	J B	1.99	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	1.99	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	1.99	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	1.99	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.85	U	1.99	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	1.99	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	1.99	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	1.99	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	1.99	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.30	U	1.99	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	1.99	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.99	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.37	J B	1.99	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.99	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.79	J	1.99	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	1.99	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.35	U	1.99	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.09	U	19.9	3.09
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89	U	19.9	1.89
27619-97-2	6:2 FTS	1.99	U	19.9	1.99
39108-34-4	8:2 FTS	1.99	U	19.9	1.99

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 460-217547-6

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_020.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 00:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250.8(mL) Date Analyzed: 09/11/2020 13:18

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411377 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	60		25-150
STL01893	13C5 PFPeA	79		25-150
STL00993	13C2 PFHxA	92		25-150
STL01892	13C4 PFHpA	85		25-150
STL00990	13C4 PFOA	90		25-150
STL00995	13C5 PFNA	93		25-150
STL00996	13C2 PFDA	99		25-150
STL00997	13C2 PFUnA	93		25-150
STL00998	13C2 PFDoA	81		25-150
STL02116	13C2 PFTeDA	97		25-150
STL02337	13C3 PFBS	90		25-150
STL00994	18O2 PFHxS	95		25-150
STL00991	13C4 PFOS	95		25-150
STL01056	13C8 FOSA	79		25-150
STL02118	d3-NMeFOSAA	68		25-150
STL02117	d5-NEtFOSAA	74		25-150
STL02279	M2-6:2 FTS	108		25-150
STL02280	M2-8:2 FTS	95		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d
Lims ID: 460-217547-E-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 11-Sep-2020 13:18:27 ALS Bottle#: 11 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-e-6-a
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 10:09:52 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 10:09:52
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.557	2.566	-0.009	0.626	11799712	1.50		59.9	6436	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.557	2.566	-0.009	1.000	72055	0.0176			1.6	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.909	2.909	0.0	0.713	12176859	1.99		79.4	4509	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.909	2.920	-0.011	1.000	48064	0.009898			0.9	M
D 9 13C3 PFBS										
301.90 > 80.00	2.940	2.951	-0.011	0.720	10118999	2.10		90.4	2627	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.940	2.951	-0.011	1.000	18902	0.004301	Target=2.37		2.1	M
298.90 > 99.00	2.940	2.951	-0.011	1.000	11540		1.64(1.19-3.56)		1.5	
D 11 13C2 PFHxA										
315.00 > 270.00	3.278	3.290	-0.012	0.803	14142886	2.31		92.4	4762	
D 17 18O2 PFHxS										
403.00 > 84.00	3.691	3.702	-0.011	0.904	5742253	2.26		95.4	11440	
D 18 13C4 PFHpA										
367.00 > 322.00	3.691	3.702	-0.011	0.904	11072258	2.12		84.7	6104	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.691	3.702	-0.011	1.000	22737	0.005064	Target=3.69		0.9	
363.00 > 169.00	3.701	3.702	-0.001	1.003	5281		4.31(1.85-5.54)		2.9	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.691	3.702	-0.011	1.000	26650	0.009290	Target=3.35		8.6	M
399.00 > 99.00	3.701	3.702	-0.001	1.003	11100		2.40(1.67-5.02)		3.3	M
D 20 M2-6:2 FTS										
429.00 > 81.00	4.067	4.068	-0.002	0.996	2494981	2.56		108	1162	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
21 6:2 FTS										
427.00 > 407.00	4.058	4.068	-0.010	0.998	14012	0.005802			18.5	
D 25 13C4 PFOA										
417.00 > 372.00	4.091	4.092	-0.001	1.002	11239004	2.26		90.3	6260	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.083	4.092	-0.009	0.998	66976	0.0146	Target=2.91		4.7	M
413.00 > 169.00	4.083	4.092	-0.009	0.998	27799		2.41(1.45-4.36)		13.7	M
* 23 13C2 PFOA										
415.00 > 370.00	4.083	4.092	-0.009		12435808	2.50			5581	
D 27 13C4 PFOS										
503.00 > 80.00	4.447	4.454	-0.007	1.089	3911924	2.27		95.0	1649	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.326	4.454	-0.128	0.973	33418	0.0197	Target=4.72		6.4	M
499.00 > 99.00	4.447	4.454	-0.007	1.000	5271		6.34(2.36-7.07)		2.1	M
D 30 13C5 PFNA										
468.00 > 423.00	4.463	4.470	-0.007	1.093	9359165	2.33		93.3	5975	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.172	5470734	1.97		78.7	7082	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.000	14337	0.007041			61.0	
D 39 13C2 PFDA										
515.00 > 470.00	4.820	4.828	-0.008	1.181	9659247	2.48		99.2	8286	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.820	4.828	-0.008	1.181	3188441	2.27		94.8	1565	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.978	5.000	-0.022	1.219	4419541	1.69		67.6	3251	
D 43 13C2 PFUnA										
565.00 > 520.00	5.138	5.157	-0.019	1.259	8991854	2.33		93.2	15940	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.147	5.157	-0.010	1.261	5109379	1.85		73.9	2636	
46 NEtFOSA										
584.00 > 419.00	5.147	5.166	-0.019	1.000	4282	0.003100			11.2	
D 56 13C2 PFDoA										
615.00 > 570.00	5.437	5.448	-0.011	1.332	7669032	2.02		80.6	6665	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.936	5.959	-0.023	1.454	7624481	2.43		97.1	6696	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 14-Sep-2020 10:09:52 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d

Injection Date: 11-Sep-2020 13:18:27 Instrument ID: A18

Lims ID: 460-217547-E-6-A Lab Sample ID: 320-217547-6

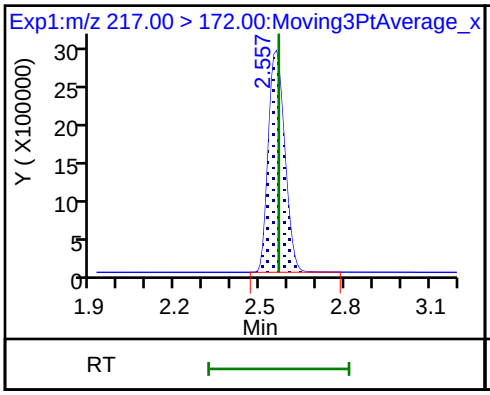
Client ID: DUP

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 11 Worklist Smp#: 6

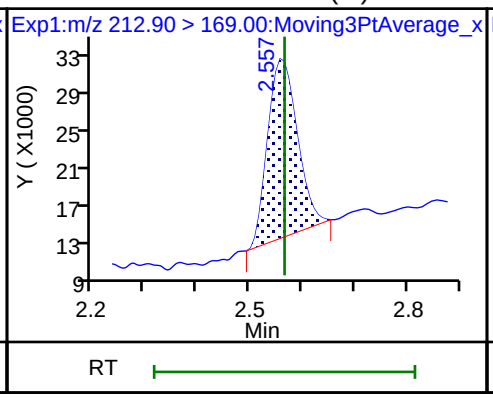
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

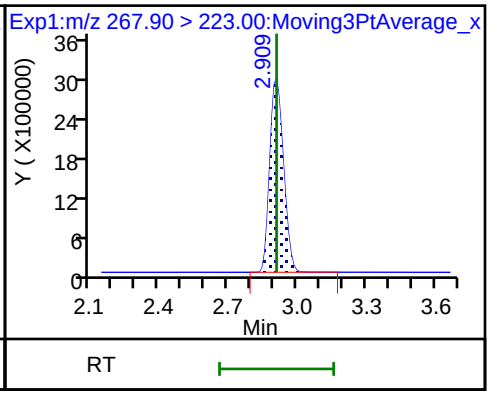
D 1 13C4 PFBA



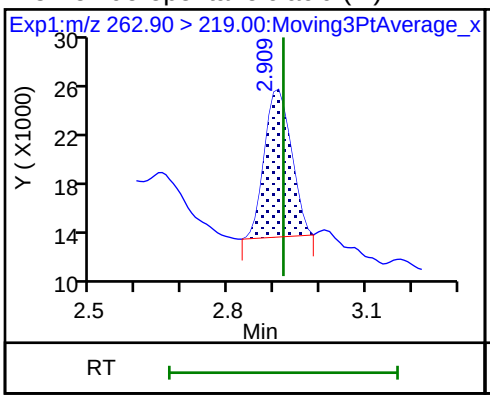
2 Perfluorobutanoic acid (M)



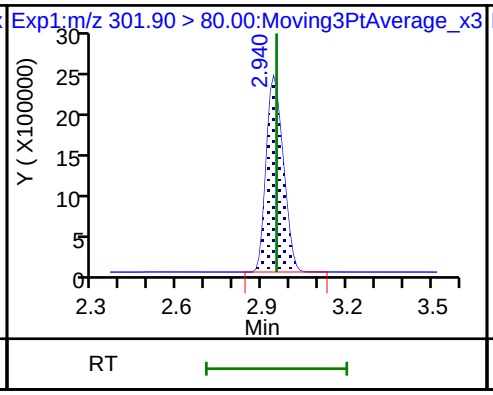
D 4 13C5 PFPeA



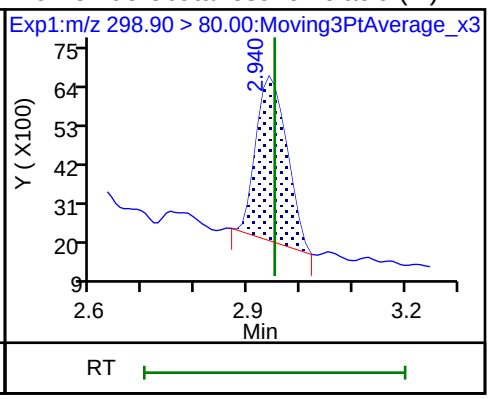
5 Perfluoropentanoic acid (M)



D 9 13C3 PFBS



6 Perfluorobutanesulfonic acid (M)



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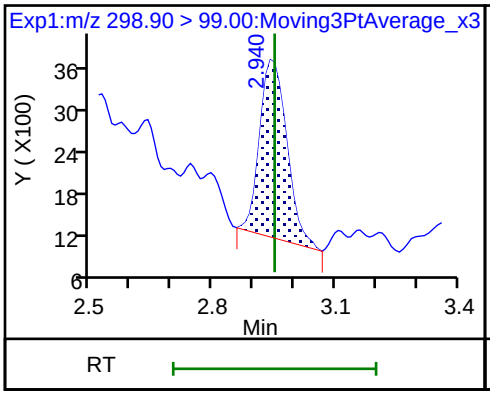
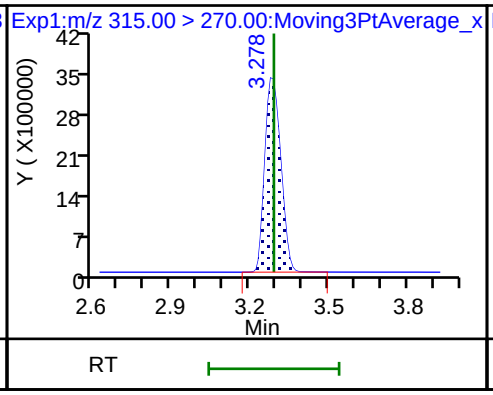
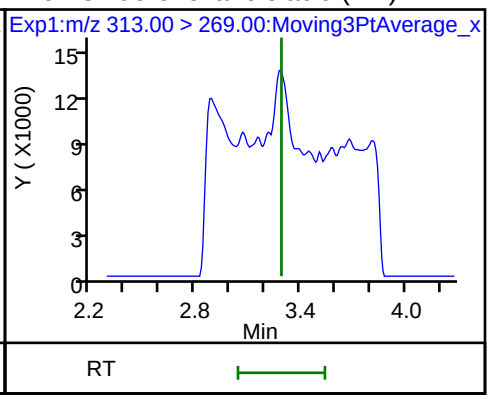


D 11 13C2 PFHxA



10 Perfluorohexanoic acid (ND)



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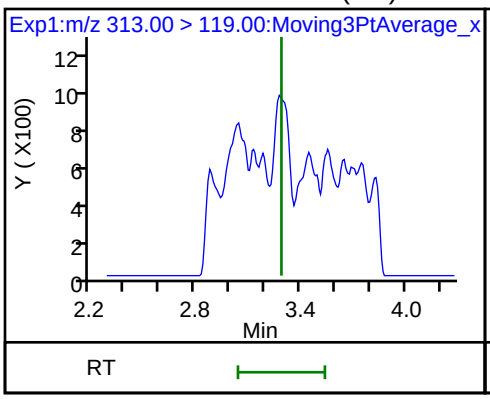
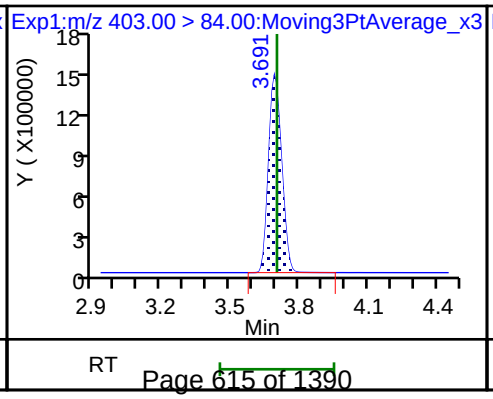


D 17 18O2 PFHxS



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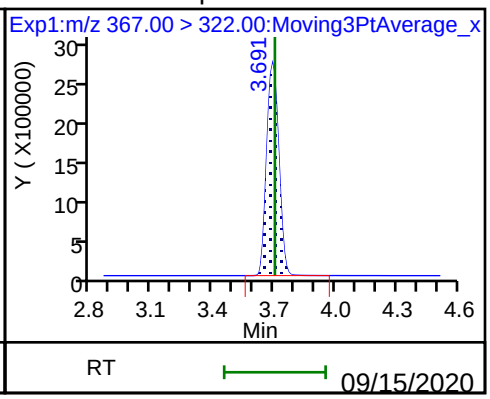
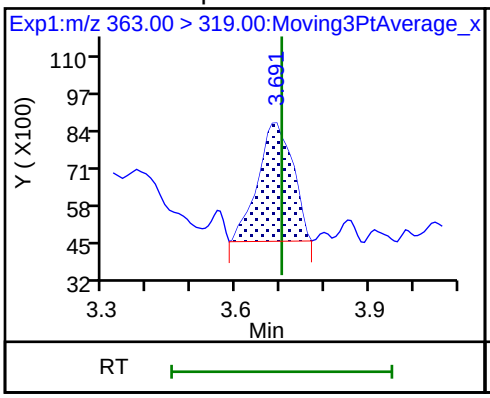


16 Perfluoroheptanoic acid



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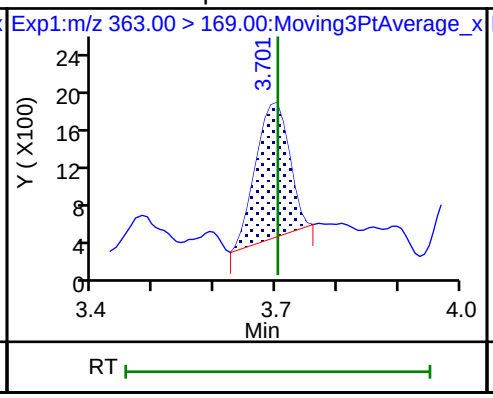
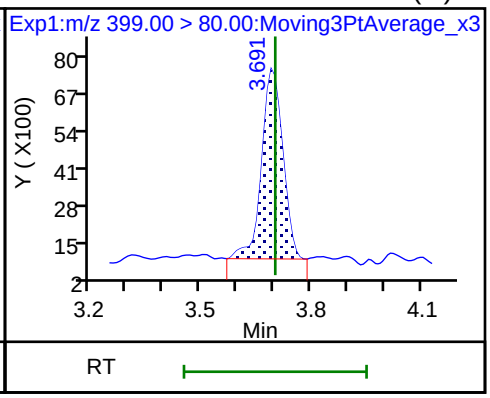
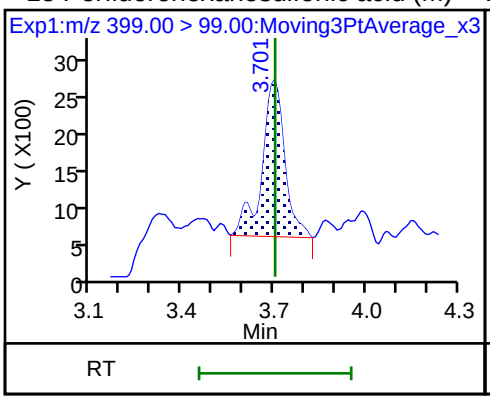


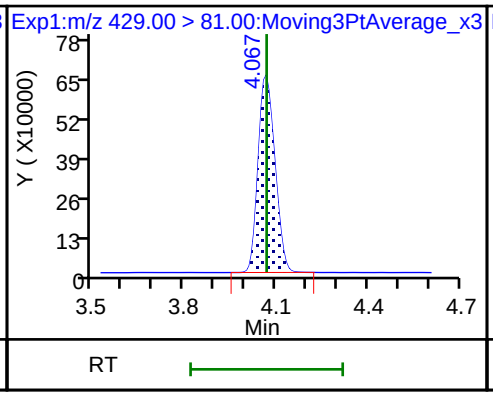
15 Perfluorohexanesulfonic acid (M)



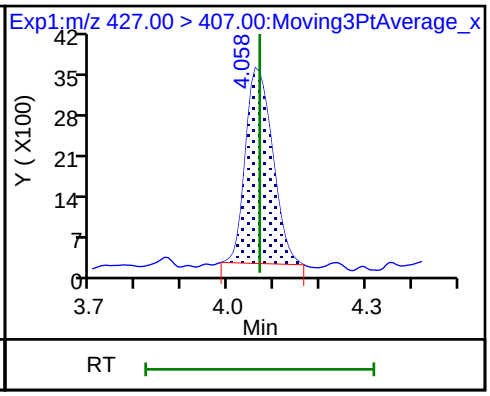
15 Perfluorohexanesulfonic acid (M)



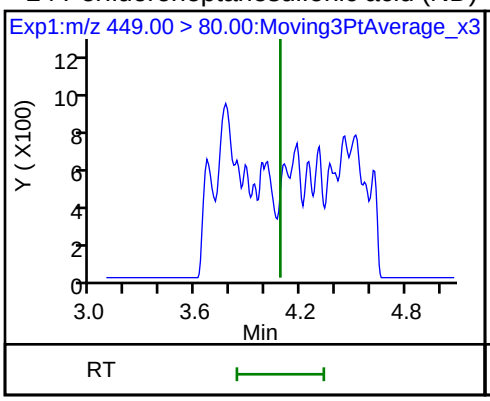
D 20 M2-6:2 FTS



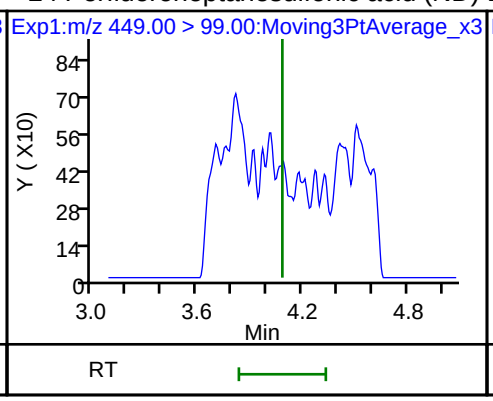
21 6:2 FTS

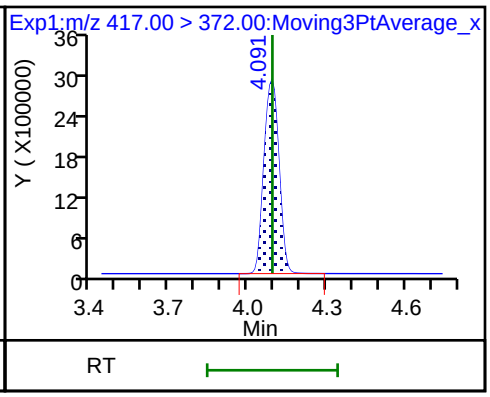


24 Perfluoroheptanesulfonic acid (ND)

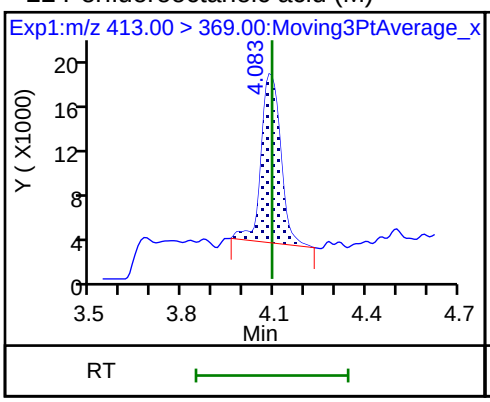


24 Perfluoroheptanesulfonic acid (ND) D 25 13C4 PFOA





22 Perfluorooctanoic acid (M)



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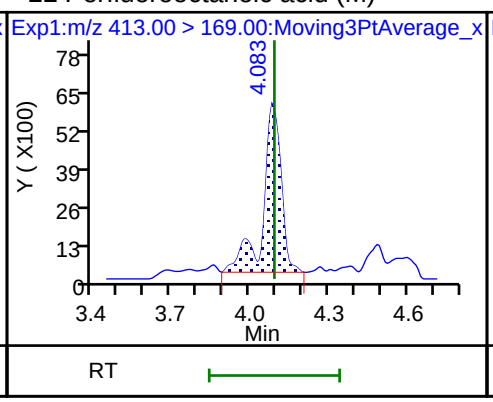
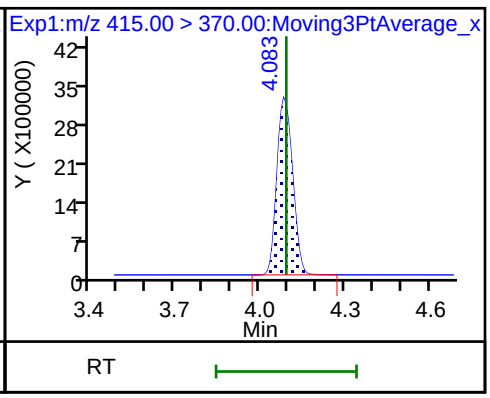
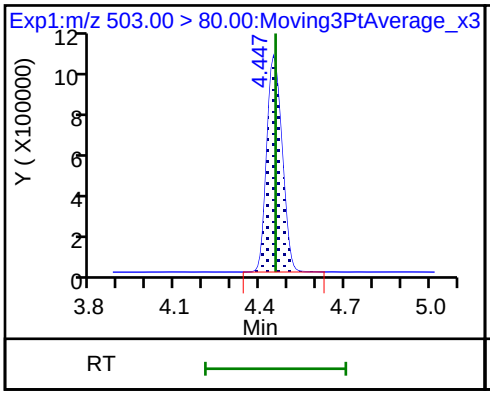


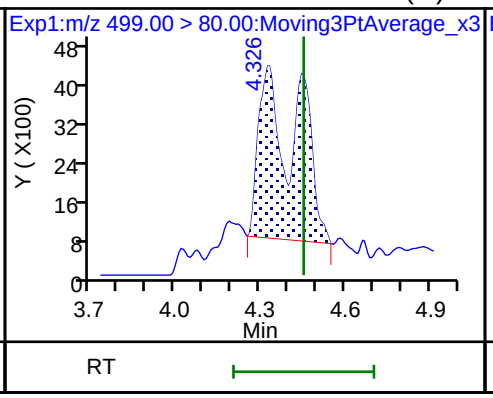
* 23 13C2 PFOA



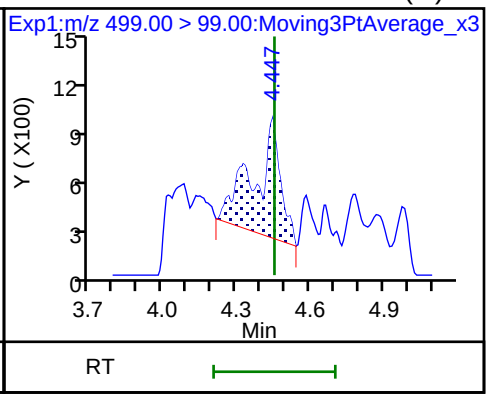
D 27 13C4 PFOS



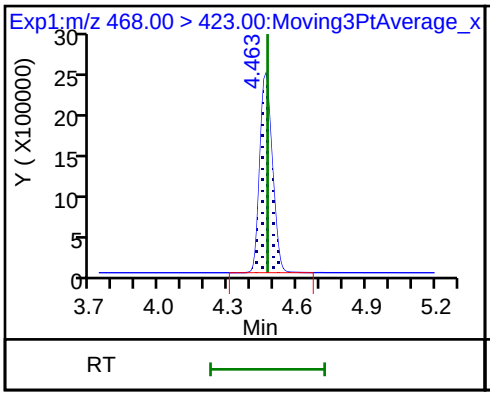
29 Perfluorooctanesulfonic acid (M)



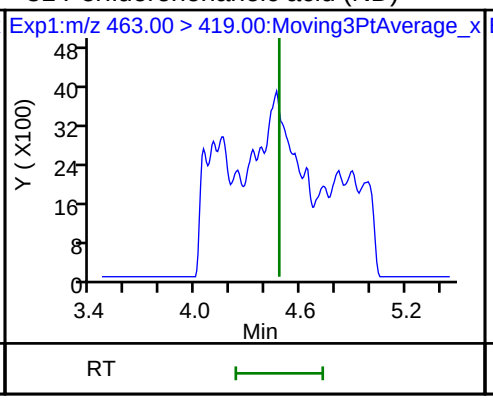
29 Perfluorooctanesulfonic acid (M)



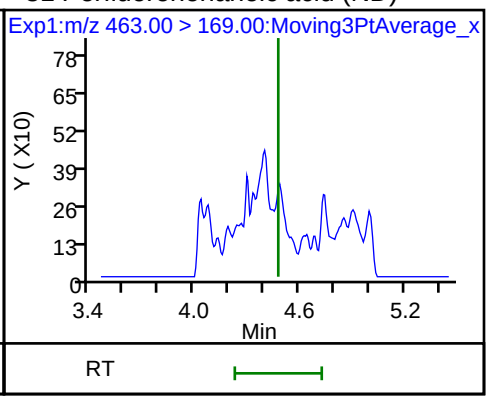
D 30 13C5 PFNA



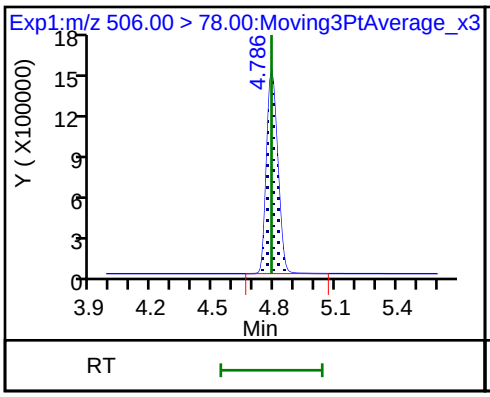
31 Perfluorononanoic acid (ND)



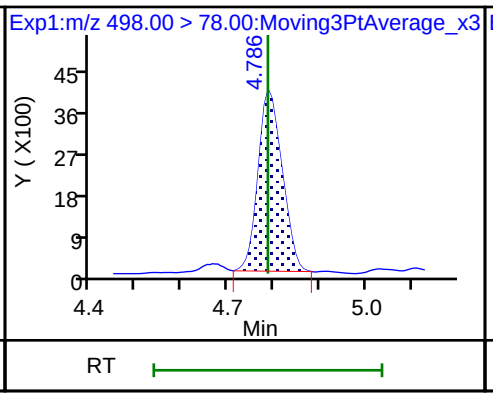
31 Perfluorononanoic acid (ND)



D 33 13C8 FOSA



34 Perfluorooctanesulfonamide



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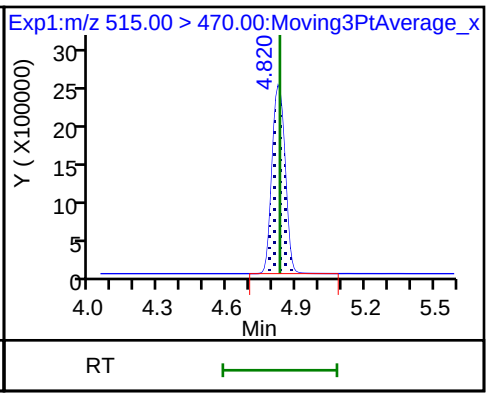
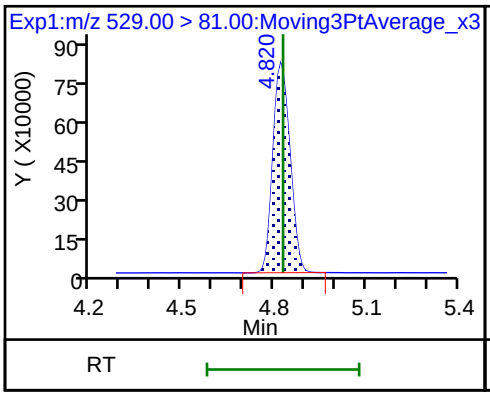


D 38 M2-8:2 FTS



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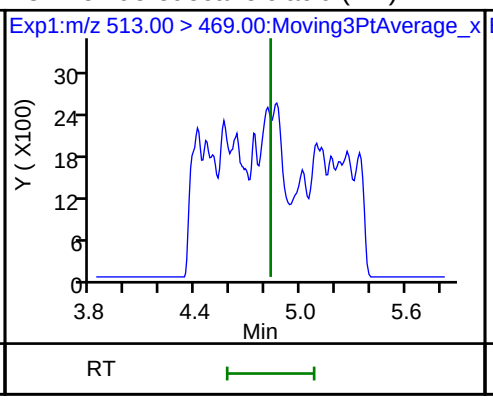

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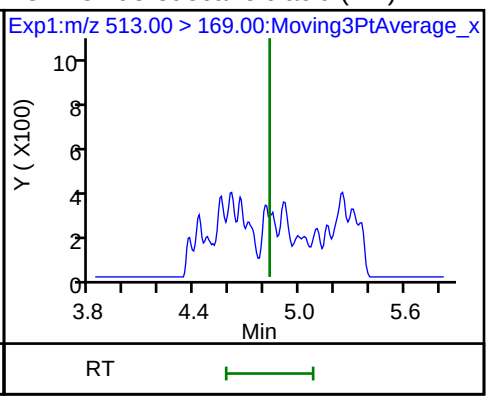
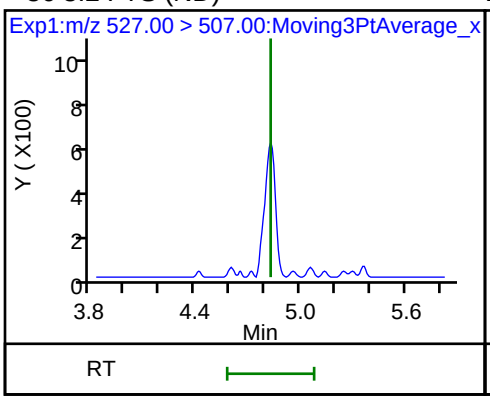
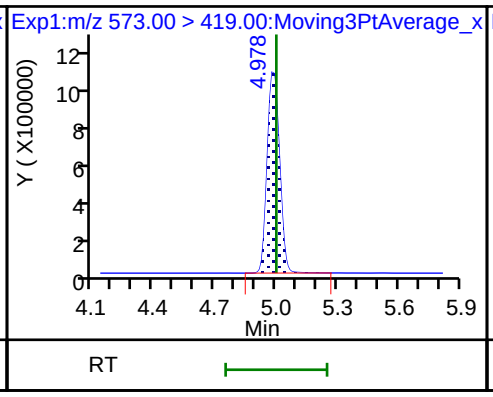


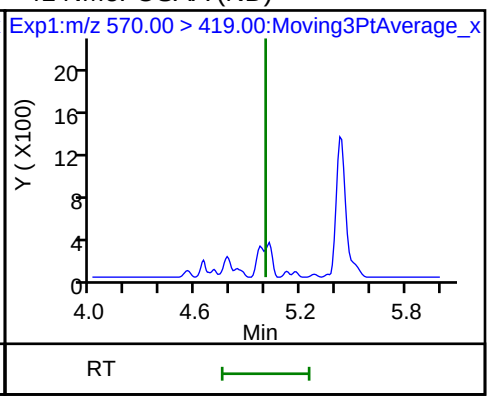
36 8:2 FTS (ND)



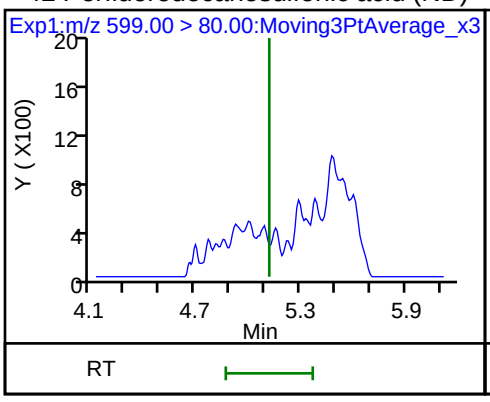
D 40 d3-NMeFOSAA



41 NMeFOSAA (ND)



42 Perfluorodecanesulfonic acid (ND)



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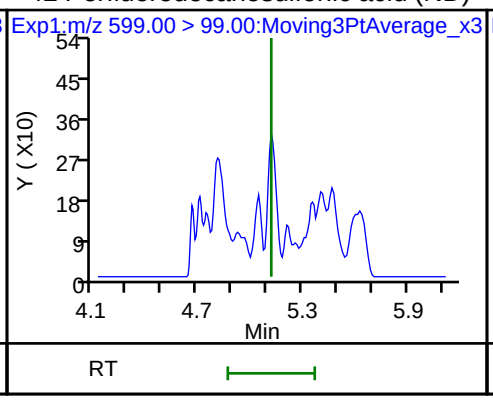
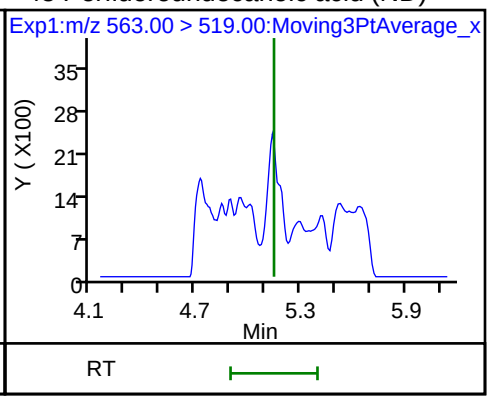
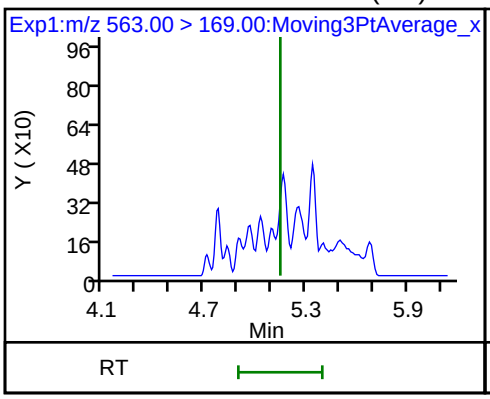


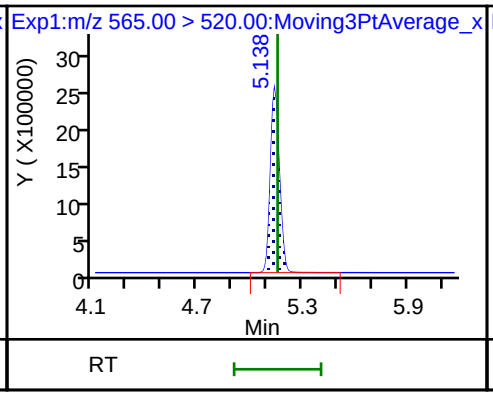
45 Perfluoroundecanoic acid (ND)



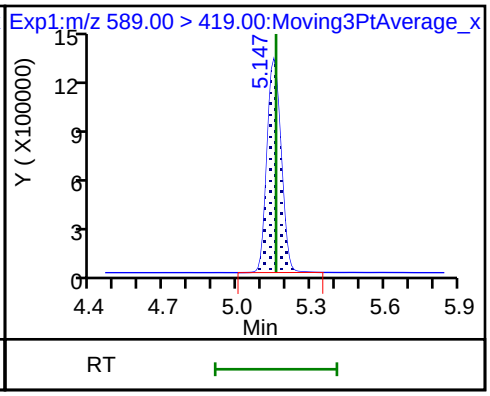
45 Perfluoroundecanoic acid (ND)



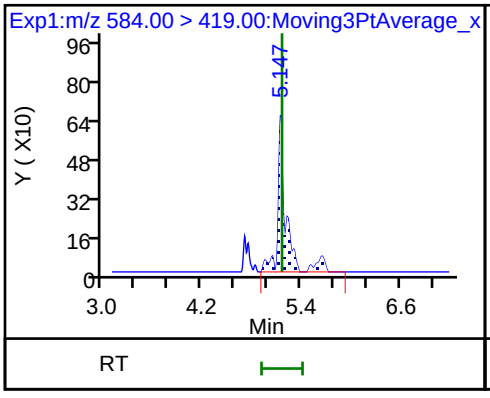
D 43 13C2 PFUnA



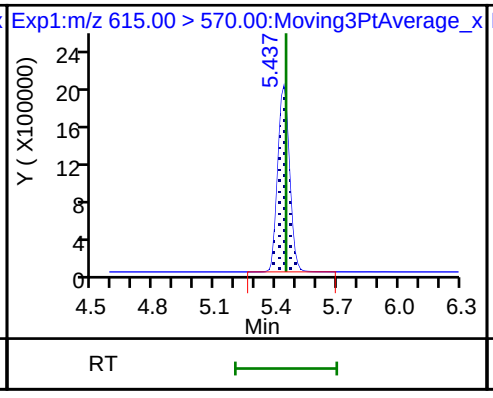
D 44 d5-NEtFOSAA



46 NEtFOSA



D 56 13C2 PFDoA



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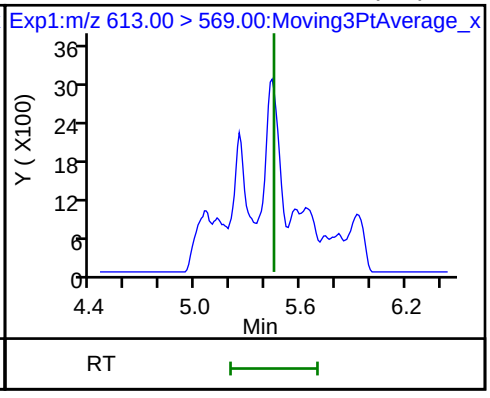
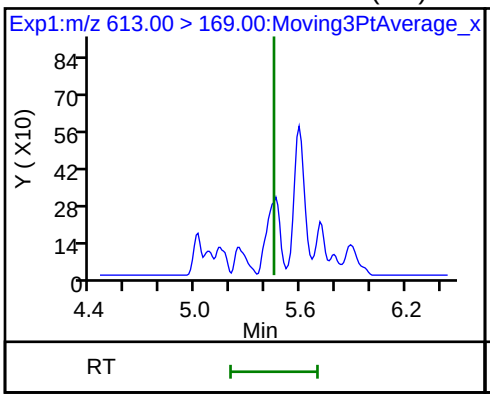
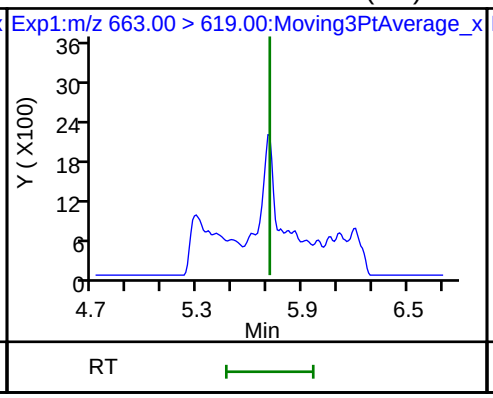


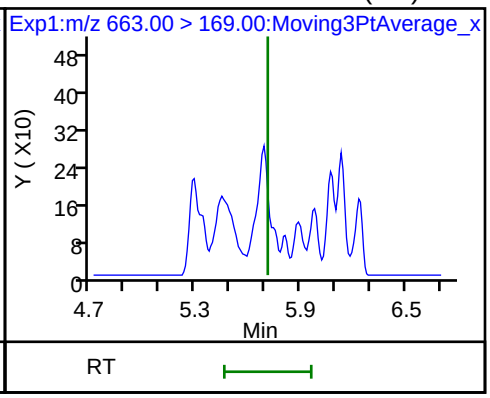
57 Perfluorododecanoic acid (ND)



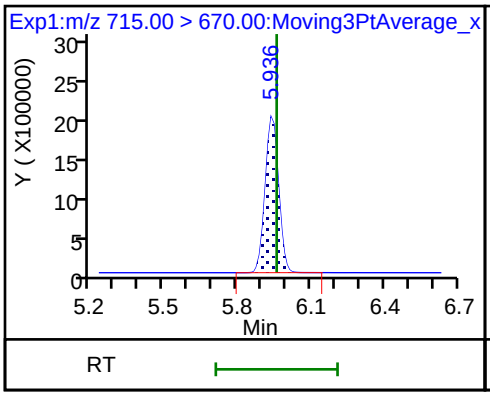
60 Perfluorotridecanoic acid (ND)



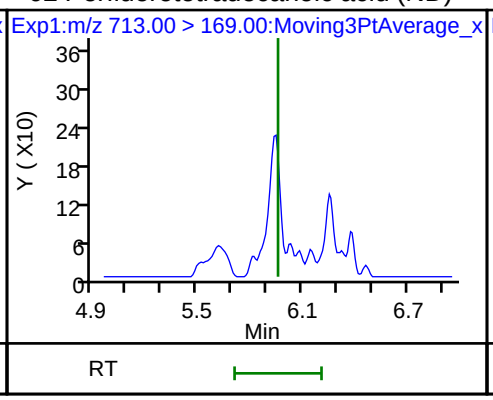
60 Perfluorotridecanoic acid (ND)



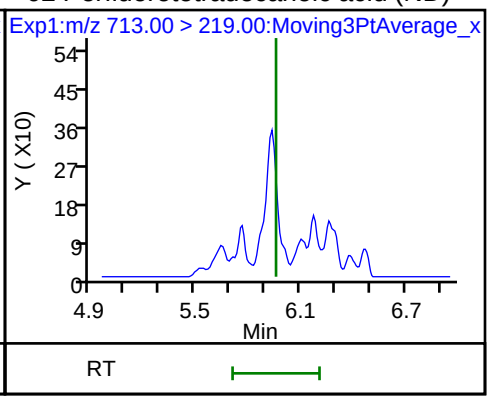
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

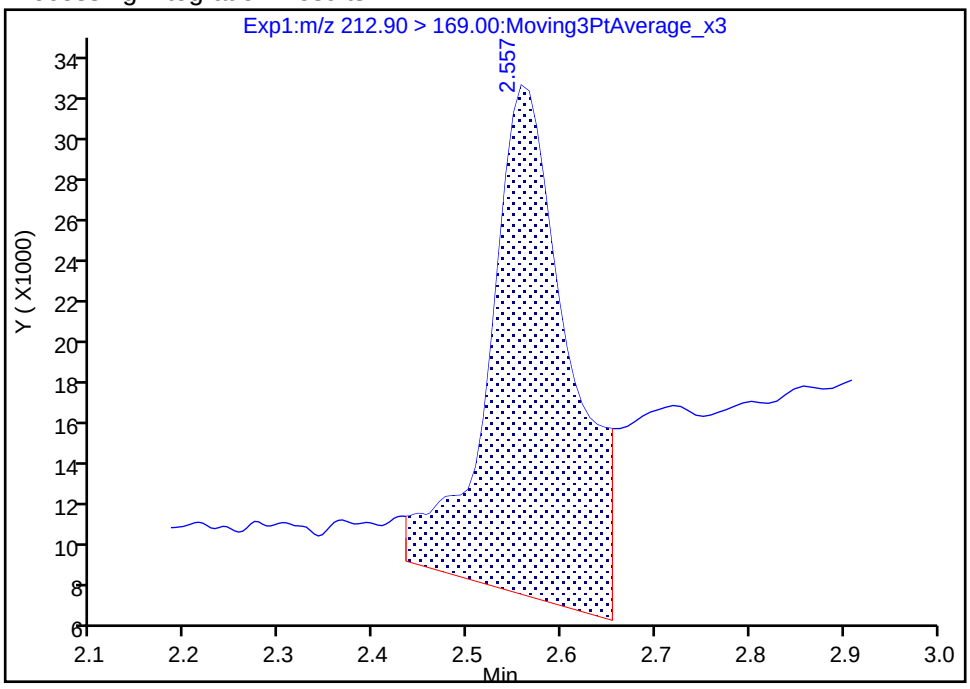
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

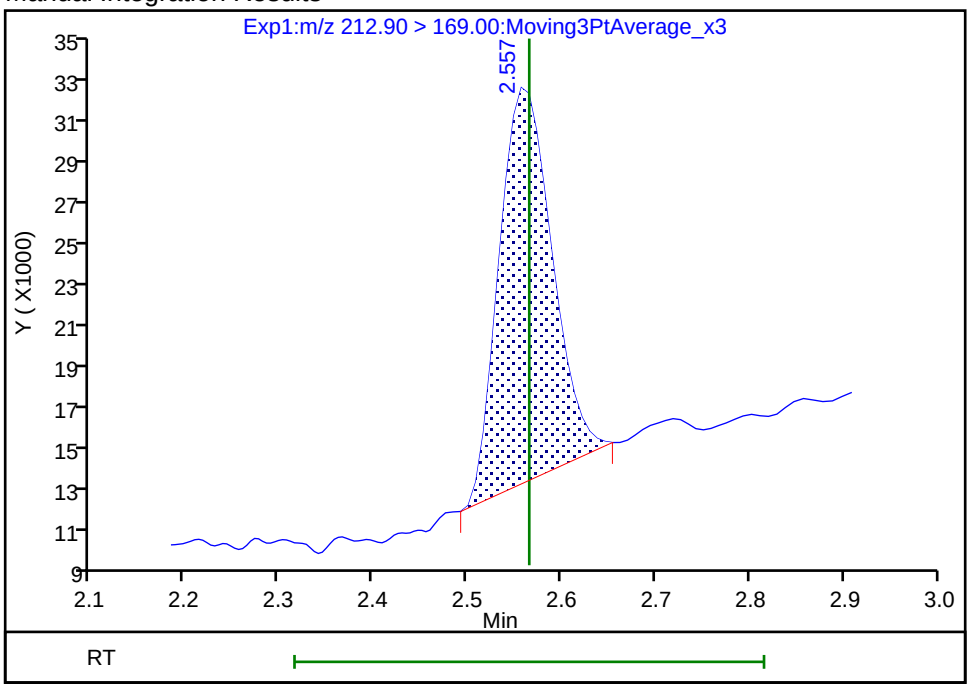
Processing Integration Results

RT: 2.56
Area: 146421
Amount: 0.035744
Amount Units: ng/ml



Manual Integration Results

RT: 2.56
Area: 72055
Amount: 0.017590
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:08:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

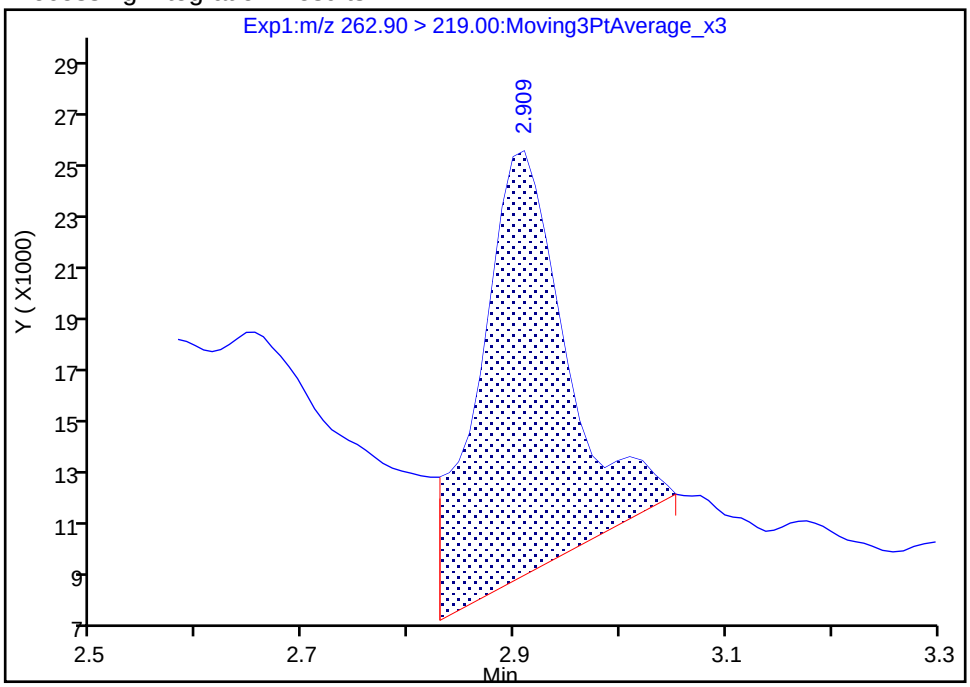
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

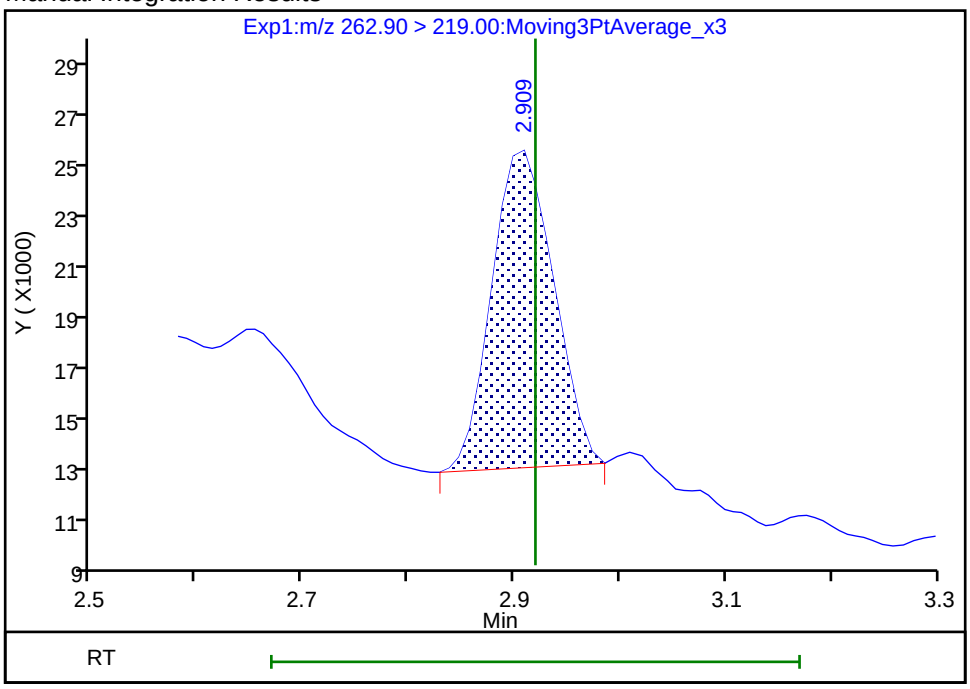
Processing Integration Results

RT: 2.91
Area: 90326
Amount: 0.018601
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 48064
Amount: 0.009898
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:08:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

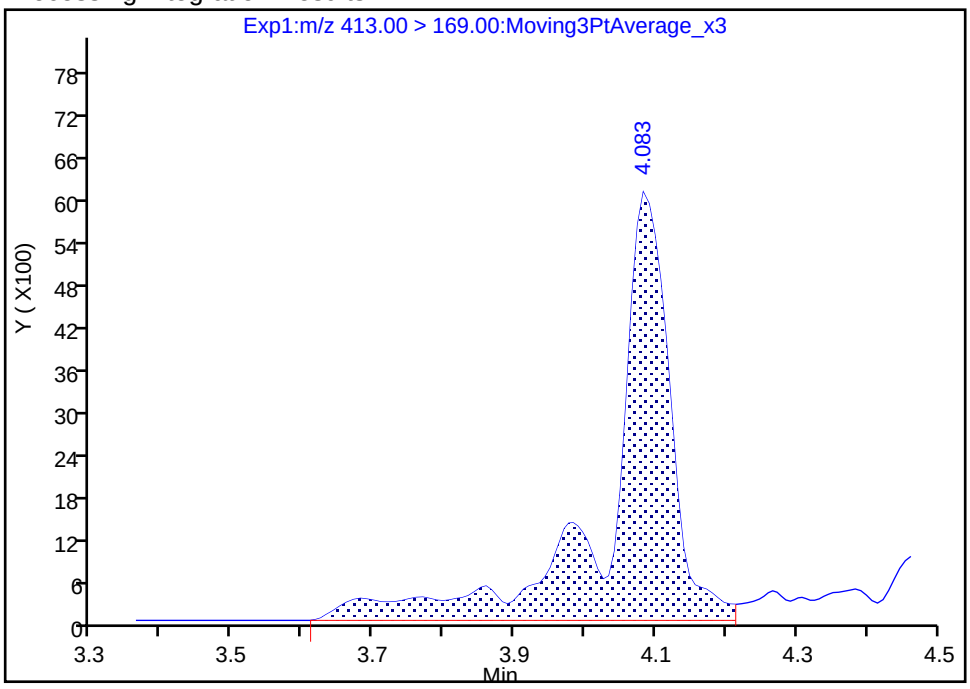
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

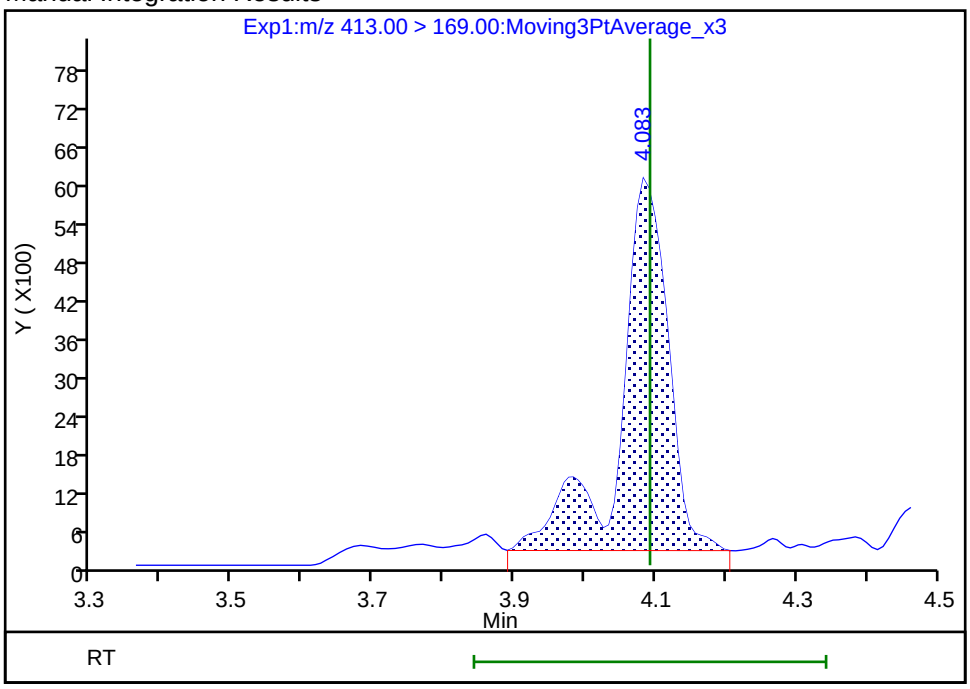
Processing Integration Results

RT: 4.08
Area: 36967
Amount: 0.029000
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 27799
Amount: 0.014600
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:09:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

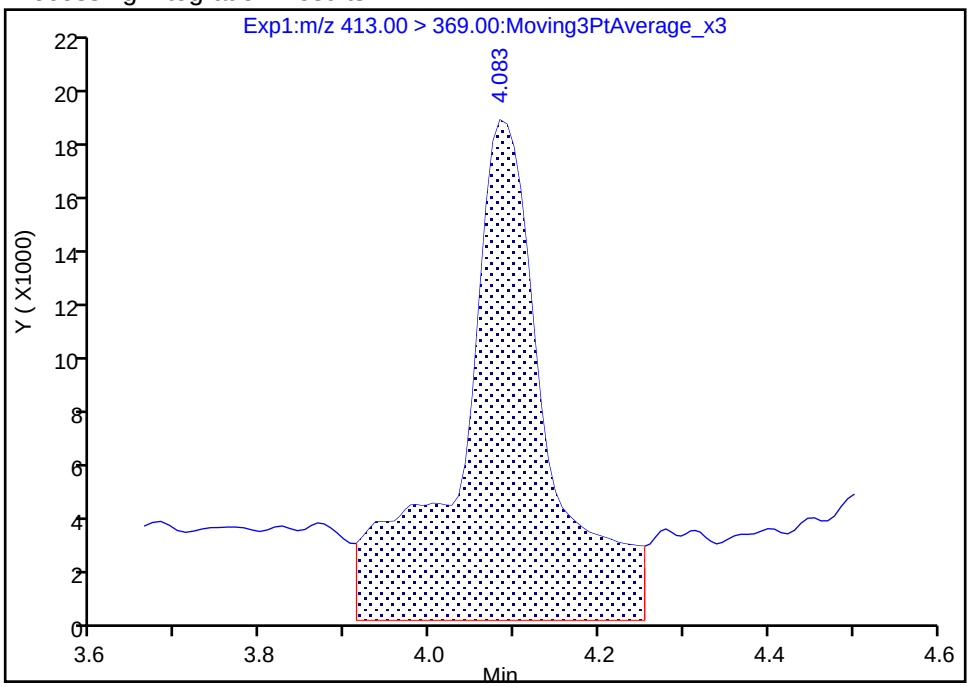
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

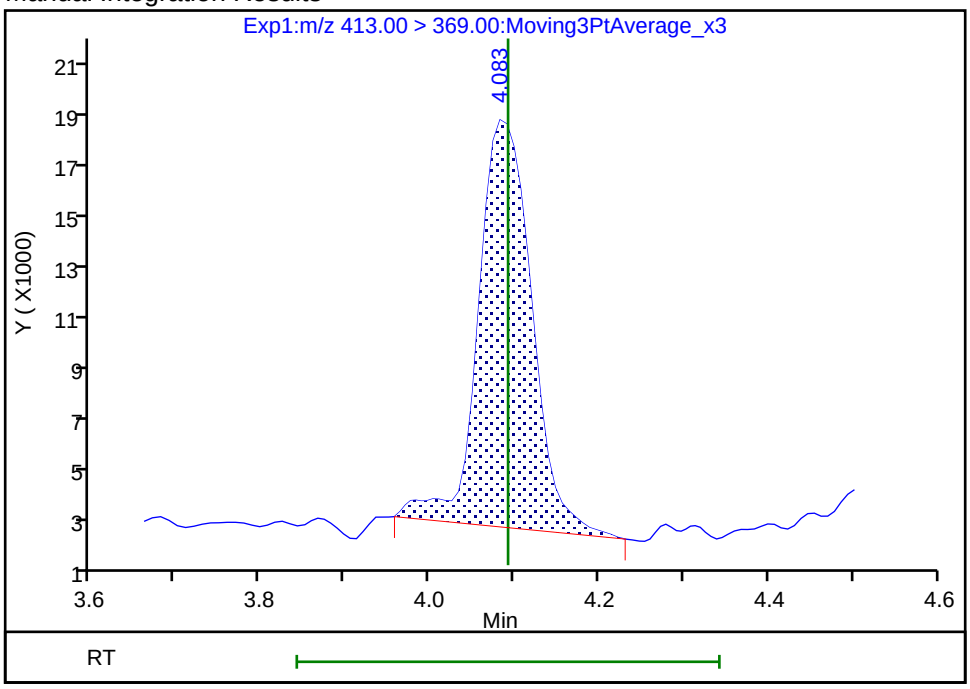
Processing Integration Results

RT: 4.08
Area: 133033
Amount: 0.029000
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 66976
Amount: 0.014600
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:09:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

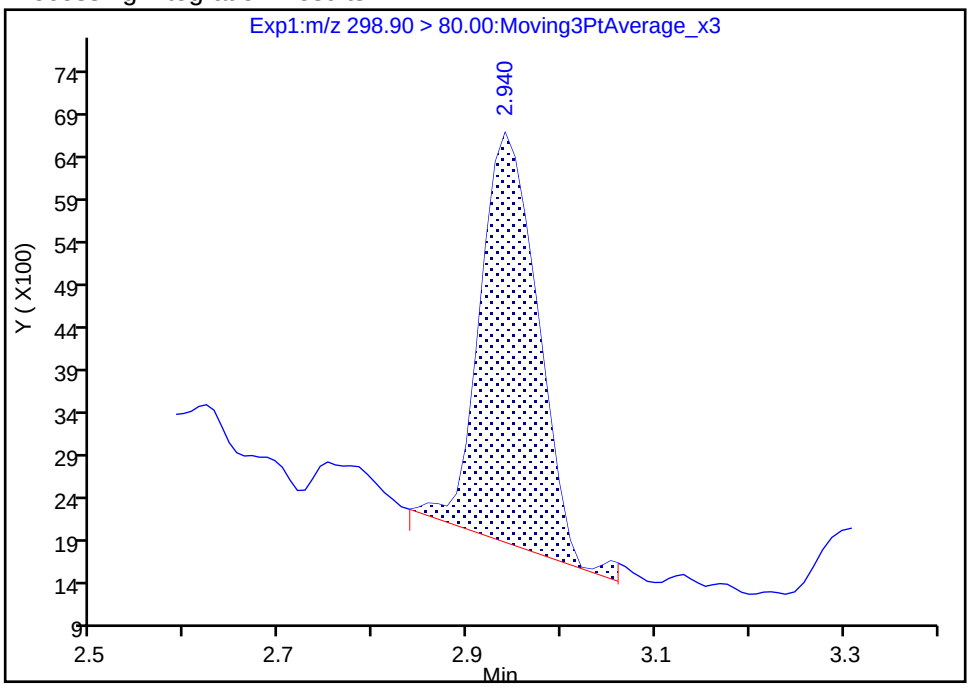
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

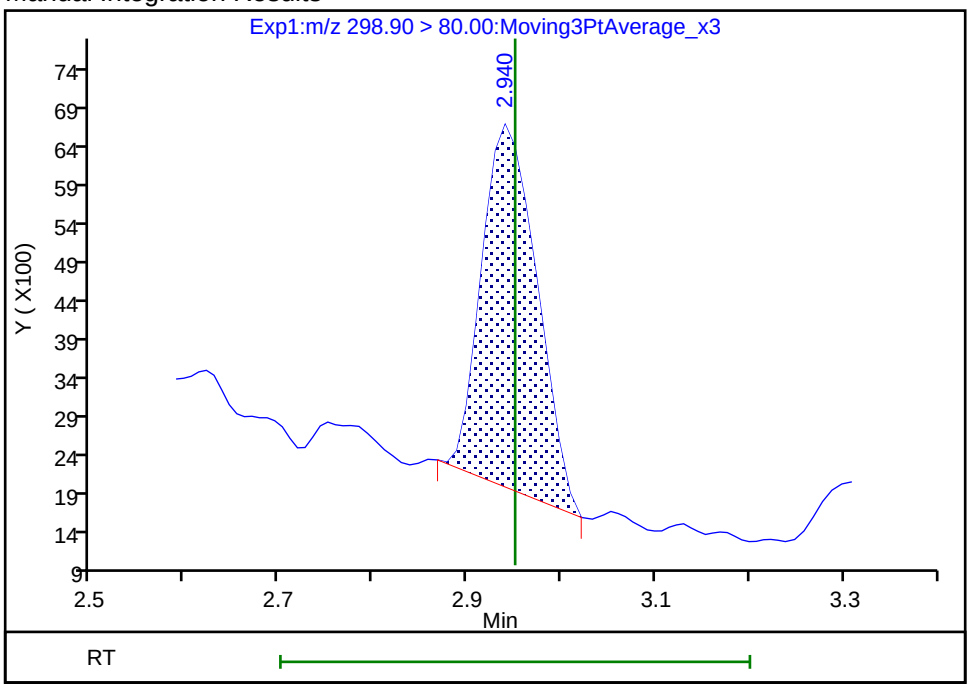
Processing Integration Results

RT: 2.94
Area: 20180
Amount: 0.004592
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 18902
Amount: 0.004301
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:08:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

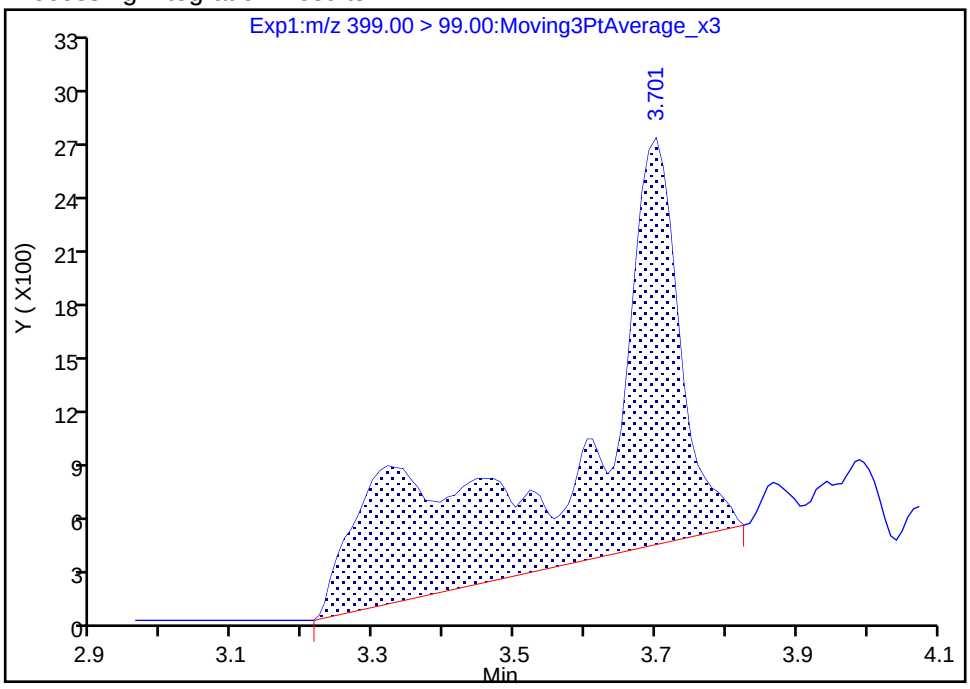
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

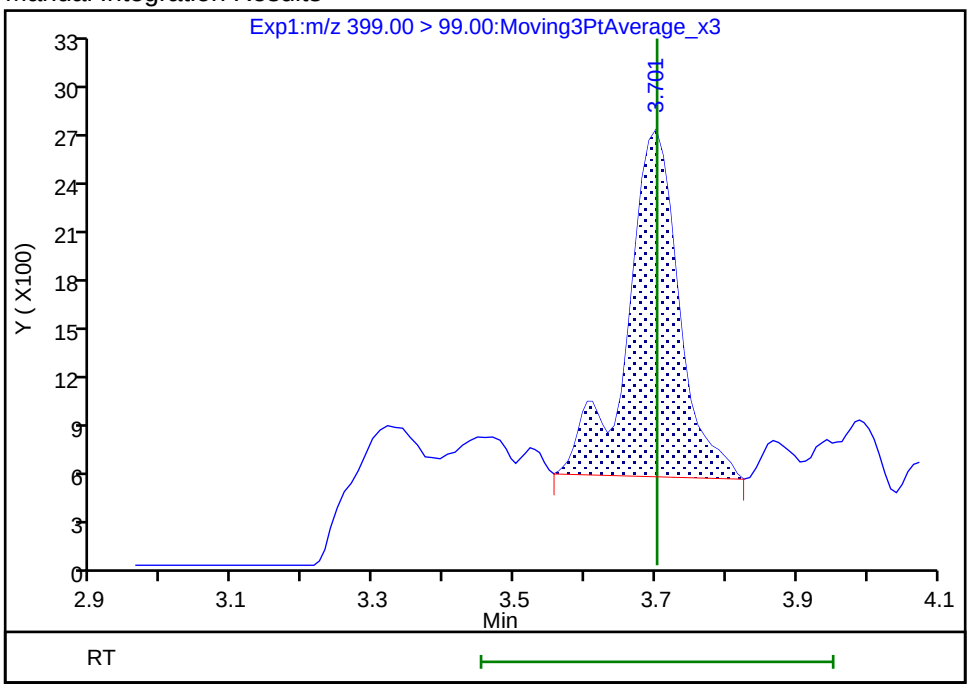
Processing Integration Results

RT: 3.70
Area: 23724
Amount: 0.021417
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 11100
Amount: 0.009290
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:08:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

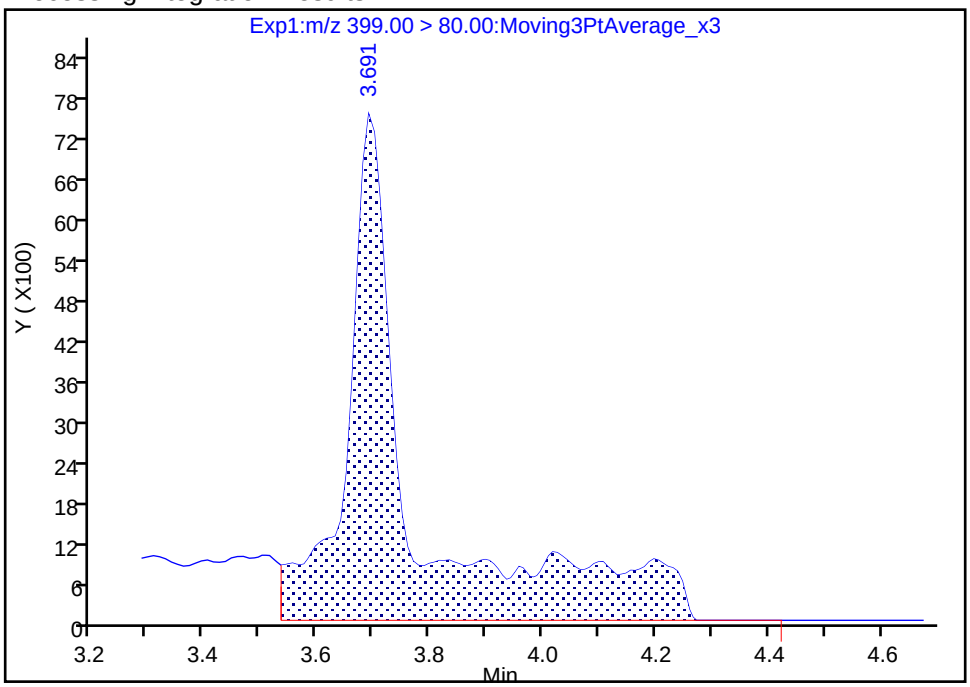
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

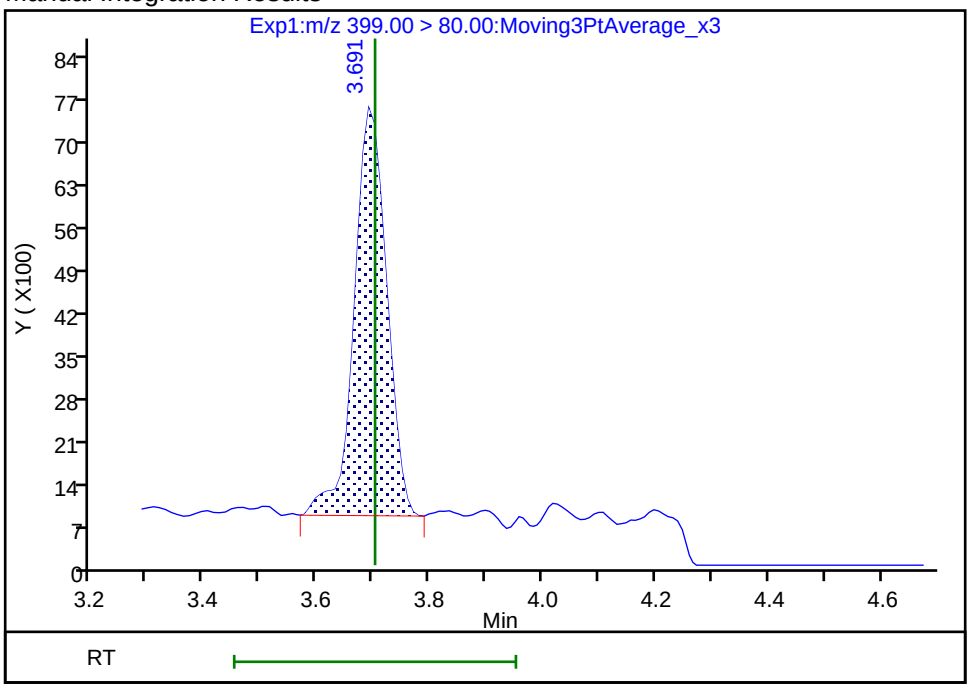
Processing Integration Results

RT: 3.69
Area: 61437
Amount: 0.021417
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 26650
Amount: 0.009290
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:09:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

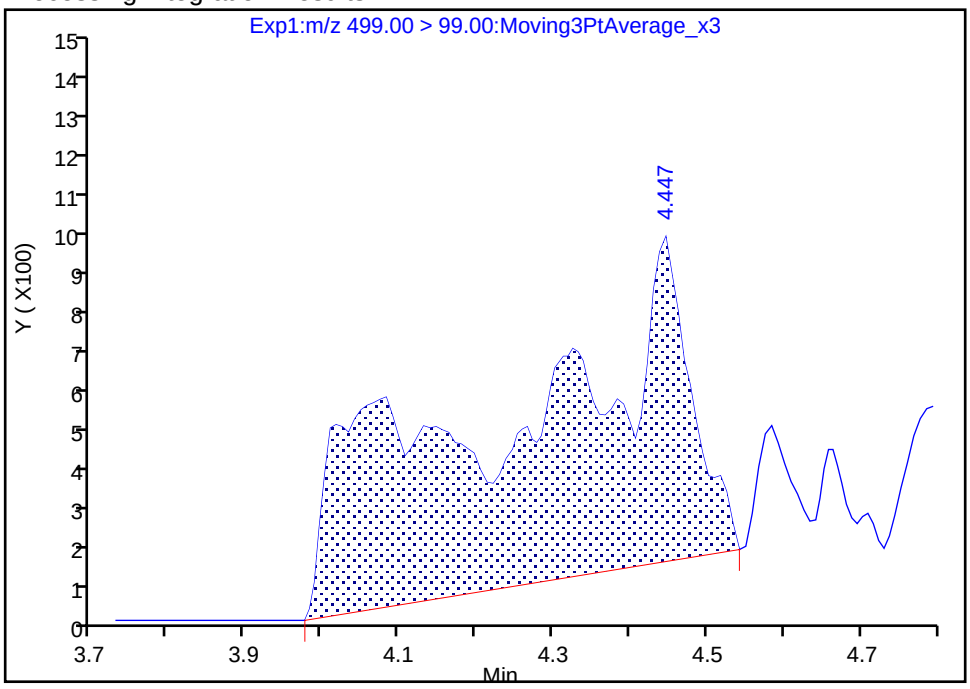
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

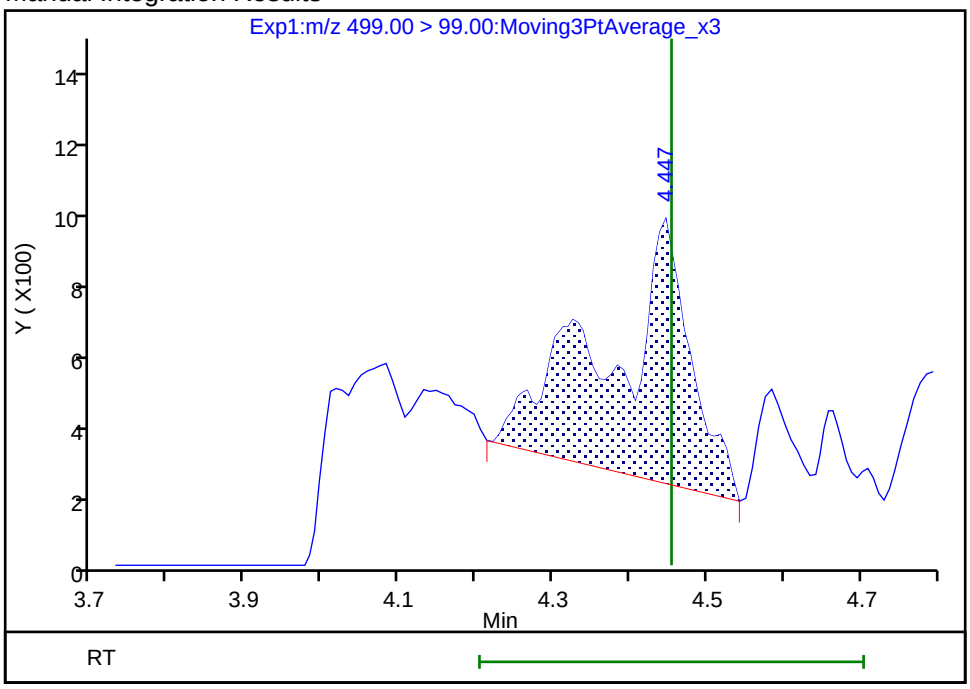
Processing Integration Results

RT: 4.45
Area: 13362
Amount: 0.026640
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 5271
Amount: 0.019726
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:09:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

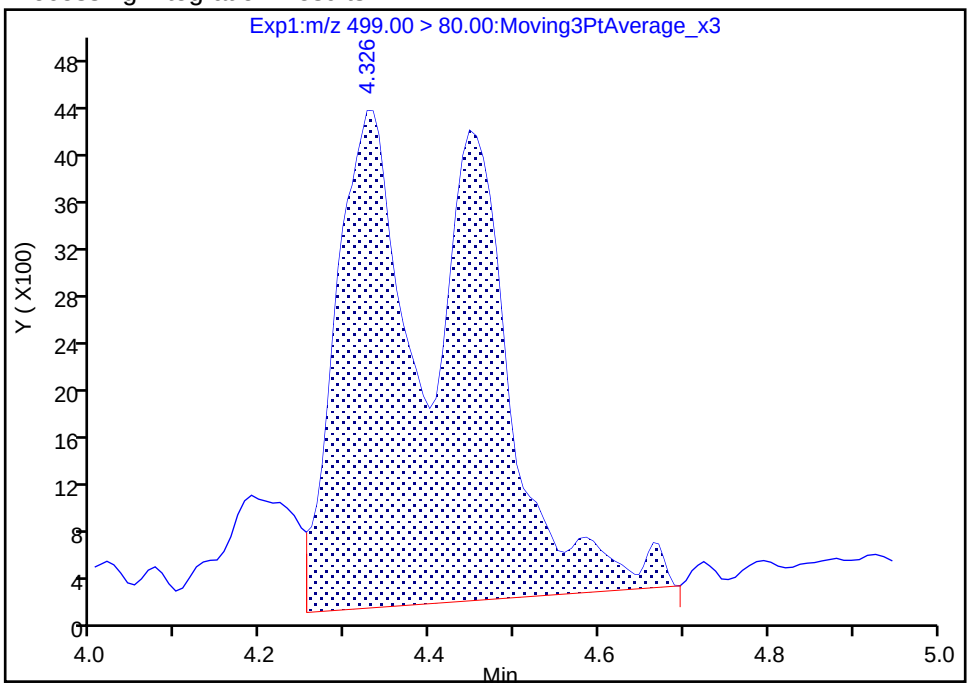
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_020.d				
Injection Date:	11-Sep-2020 13:18:27	Instrument ID:	A18		
Lims ID:	460-217547-E-6-A	Lab Sample ID:	320-217547-6		
Client ID:	DUP				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	11	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

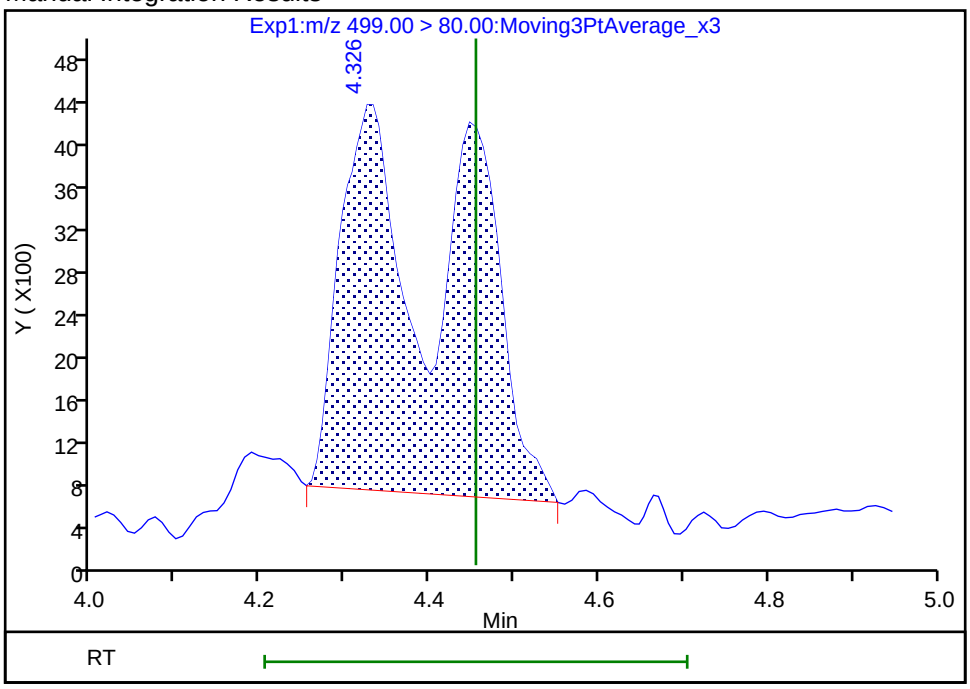
Processing Integration Results

RT: 4.33
Area: 45131
Amount: 0.026640
Amount Units: ng/ml



Manual Integration Results

RT: 4.33
Area: 33418
Amount: 0.019726
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:09:36
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217547-7

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_077.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 14:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 254.5(mL) Date Analyzed: 09/10/2020 15:38

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.35	J B	1.96	0.34
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.48	U	1.96	0.48
307-24-4	Perfluorohexanoic acid (PFHxA)	0.57	U	1.96	0.57
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	1.96	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.83	U	1.96	0.83
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	1.96	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.30	U	1.96	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.08	U	1.96	1.08
307-55-1	Perfluorododecanoic acid (PFDoA)	0.54	U	1.96	0.54
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.28	U	1.96	1.28
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.96	0.28
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.96	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27	J B	1.96	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.96	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.53	U	1.96	0.53
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.96	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.34	U	1.96	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.05	U	19.6	3.05
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.87	U	19.6	1.87
27619-97-2	6:2 FTS	1.96	U	19.6	1.96
39108-34-4	8:2 FTS	1.96	U	19.6	1.96

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217547-7

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_077.d

Analysis Method: 537 (modified) Date Collected: 09/02/2020 14:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 254.5(mL) Date Analyzed: 09/10/2020 15:38

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84		25-150
STL01893	13C5 PFPeA	90		25-150
STL00993	13C2 PFHxA	102		25-150
STL01892	13C4 PFHpA	101		25-150
STL00990	13C4 PFOA	100		25-150
STL00995	13C5 PFNA	102		25-150
STL00996	13C2 PFDA	106		25-150
STL00997	13C2 PFUnA	114		25-150
STL00998	13C2 PFDoA	96		25-150
STL02116	13C2 PFTeDA	93		25-150
STL02337	13C3 PFBS	97		25-150
STL00994	18O2 PFHxS	101		25-150
STL00991	13C4 PFOS	101		25-150
STL01056	13C8 FOSA	88		25-150
STL02118	d3-NMeFOSAA	87		25-150
STL02117	d5-NEtFOSAA	89		25-150
STL02279	M2-6:2 FTS	112		25-150
STL02280	M2-8:2 FTS	118		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d
Lims ID: 460-217547-D-7-A
Client ID: FB
Sample Type: Client
Inject. Date: 10-Sep-2020 15:38:41 ALS Bottle#: 41 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217547-d-7-a
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:32:55 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1040

First Level Reviewer: sanjumnair Date: 11-Sep-2020 08:32:55
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.546	2.557	-0.011	0.624	15962388	2.11		84.3	9384	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.546	2.557	-0.011	1.000	49837	0.008993			2.1	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.896	2.909	-0.013	0.710	13237125	2.25		89.9	5471	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.896	2.909	-0.013	1.000	41578	0.007877			2.0	M
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.937	2.940	-0.003	1.000	9096	0.002017	Target=2.30		2.0	
298.90 > 99.00	2.937	2.940	-0.003	1.000	5269		1.73(1.15-3.45)		1.4	
D 9 13C3 PFBS										
301.90 > 80.00	2.937	2.940	-0.003	0.720	10384929	2.25		96.6	5262	
D 11 13C2 PFHxA										
315.00 > 270.00	3.275	3.278	-0.003	0.803	15007795	2.55		102	8996	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.686	3.691	-0.005	1.000	15471	0.003006	Target=4.05		1.6	
363.00 > 169.00	3.676	3.691	-0.015	0.997	2714		5.70(2.03-6.08)		2.3	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.686	3.691	-0.005	1.000	19878	0.006789	Target=3.35		8.1	M
399.00 > 99.00	3.686	3.691	-0.005	1.000	5141		3.87(1.67-5.02)		4.0	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.686	3.691	-0.005	0.904	5860854	2.40		101	8908	
D 18 13C4 PFHpA										
367.00 > 322.00	3.686	3.691	-0.005	0.904	12694199	2.53		101	5474	
21 6:2 FTS										
427.00 > 407.00	4.063	4.058	0.005	1.000	10839	0.004505			14.7	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.063	4.058	0.005	0.996	2485576	2.66		112	1767	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.080	4.082	-0.002	1.000	35247	0.007196	Target=3.01		4.6	M
413.00 > 169.00	4.080	4.082	-0.002	1.000	13816		2.55(1.50-4.51)		10.3	M
* 23 13C2 PFOA										
415.00 > 370.00	4.080	4.082	-0.002		11939642	2.50			6682	
D 25 13C4 PFOA										
417.00 > 372.00	4.080	4.082	-0.002	1.000	12000060	2.51		100	8204	
D 27 13C4 PFOS										
503.00 > 80.00	4.443	4.446	-0.003	1.089	3996317	2.41		101	1839	
D 30 13C5 PFNA										
468.00 > 423.00	4.459	4.462	-0.003	1.093	9833326	2.55		102	9496	
D 33 13C8 FOSA										
506.00 > 78.00	4.783	4.786	-0.003	1.172	5863981	2.20		87.9	5967	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.792	4.786	0.006	1.002	10645	0.004877			54.9	
D 39 13C2 PFDA										
515.00 > 470.00	4.817	4.820	-0.003	1.181	9906155	2.65		106	10001	
36 8:2 FTS										
527.00 > 507.00	4.826	4.820	0.006	1.002	2988	0.001054			25.9	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.817	4.820	-0.003	1.181	3825093	2.84		118	2864	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.986	4.978	0.008	1.222	5456238	2.17		87.0	4759	
41 NMeFOSAA										
570.00 > 419.00	4.986	4.989	-0.003	1.000	5397	0.003334			5.4	
D 43 13C2 PFUnA										
565.00 > 520.00	5.137	5.139	-0.002	1.259	10572290	2.85		114	13711	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.146	5.148	-0.002	1.261	5871510	2.21		88.5	3621	
46 NEtFOSA										
584.00 > 419.00	5.164	5.157	0.007	1.004	5630	0.003547			21.9	
D 56 13C2 PFDoA										
615.00 > 570.00	5.425	5.437	-0.012	1.330	8774671	2.40		96.1	8797	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.936	5.948	-0.012	1.455	7022493	2.33		93.2	10415	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:32:56 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d

Injection Date: 10-Sep-2020 15:38:41 Instrument ID: A18

Lims ID: 460-217547-D-7-A Lab Sample ID: 320-217547-7

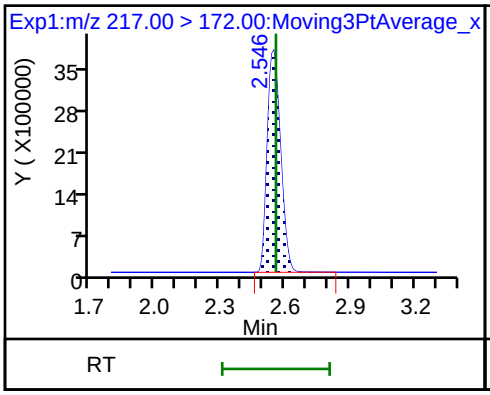
Client ID: FB

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 41 Worklist Smp#: 5

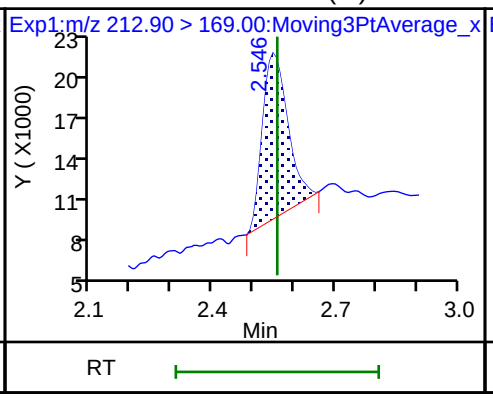
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

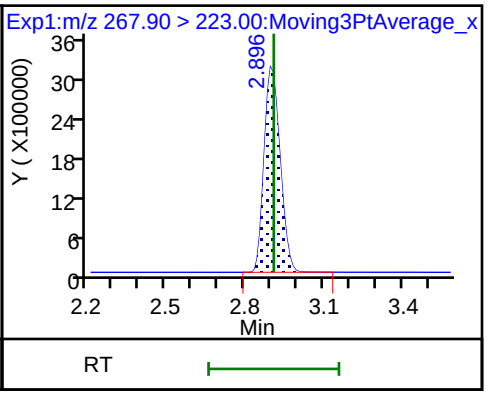
D 1 13C4 PFBA



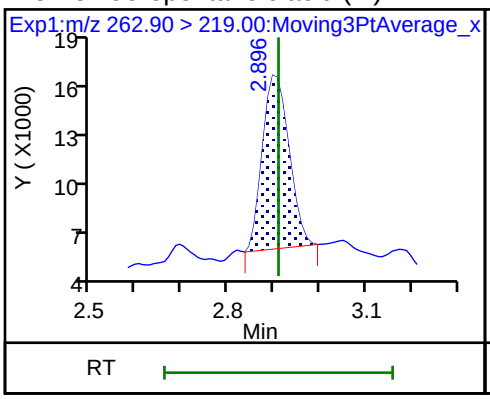
2 Perfluorobutanoic acid (M)



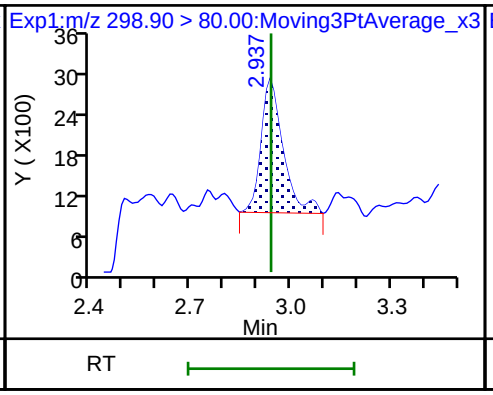
D 4 13C5 PFPeA



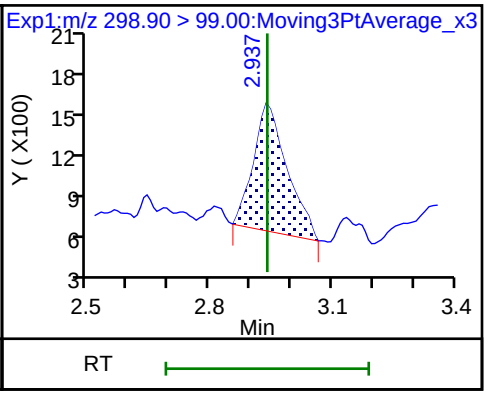
5 Perfluoropentanoic acid (M)



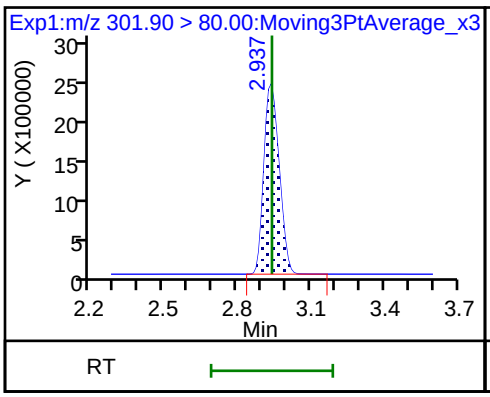
6 Perfluorobutanesulfonic acid



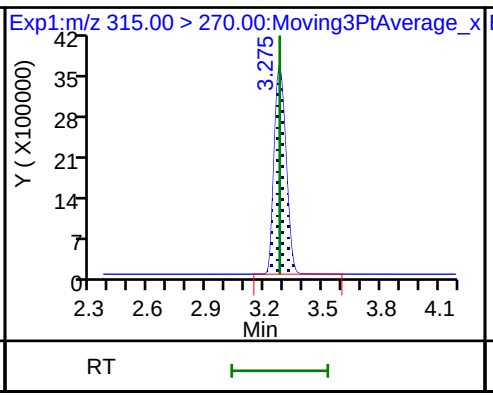
6 Perfluorobutanesulfonic acid



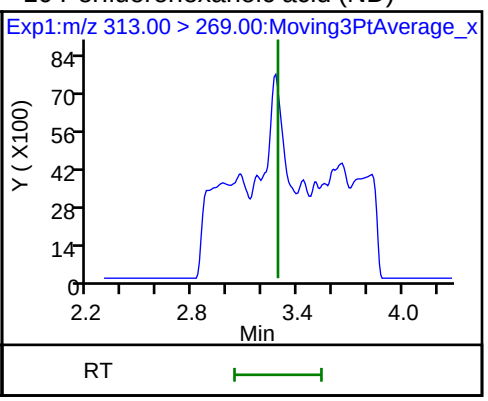
D 9 13C3 PFBS



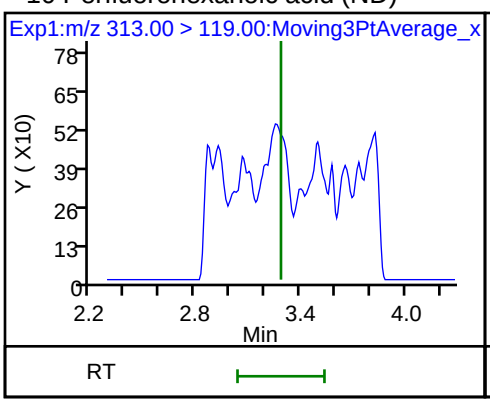
D 11 13C2 PFHxA



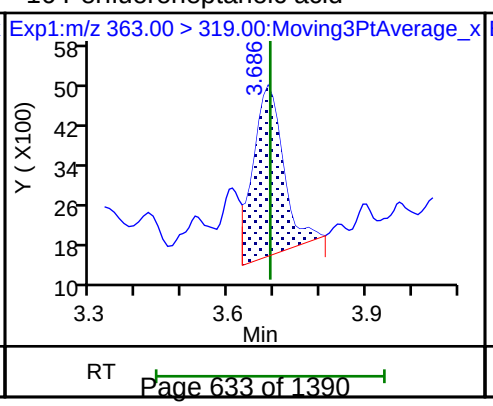
10 Perfluorohexanoic acid (ND)



10 Perfluorohexanoic acid (ND)



16 Perfluoroheptanoic acid



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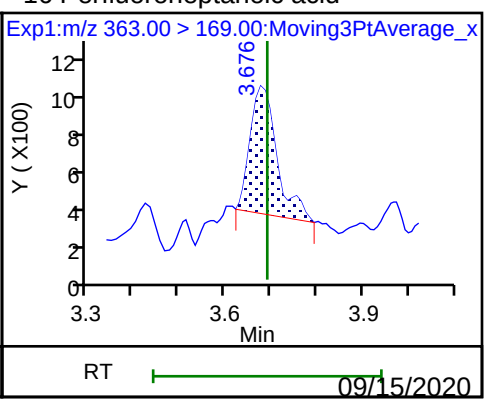
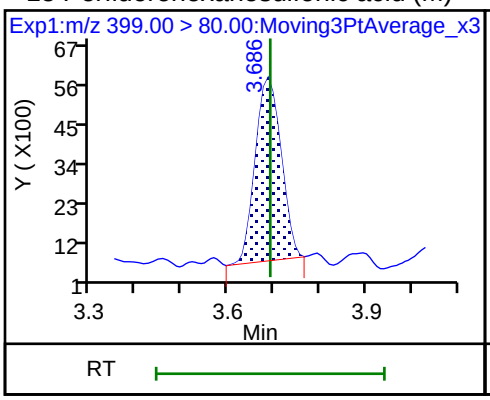
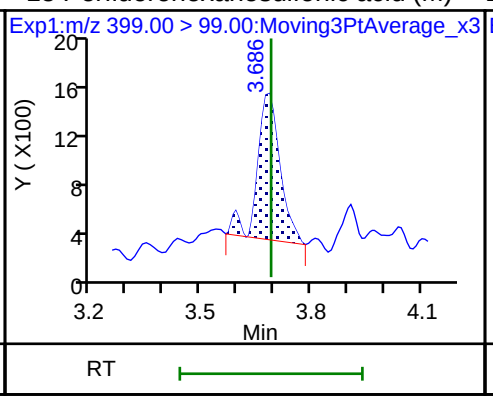


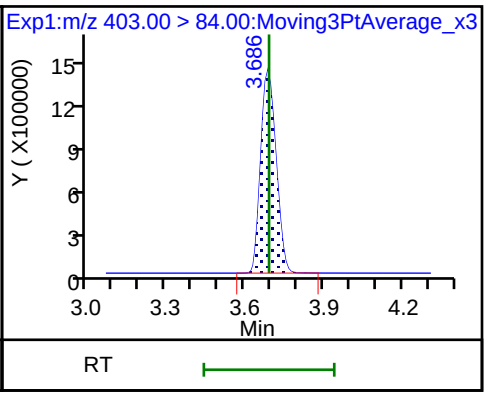
15 Perfluorohexanesulfonic acid (M)



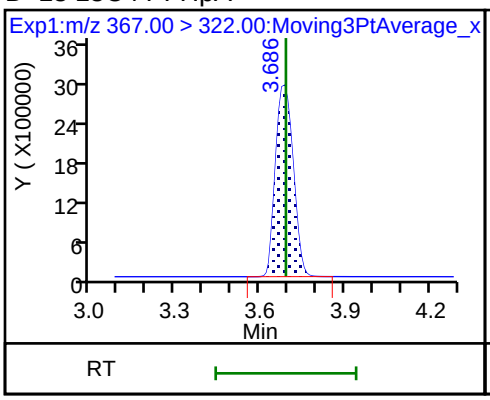
15 Perfluorohexanesulfonic acid (M)



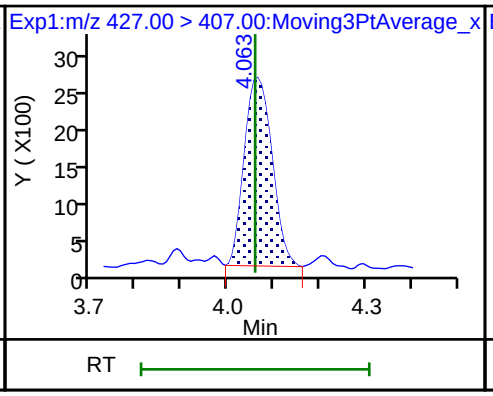
D 17 18O2 PFHxS



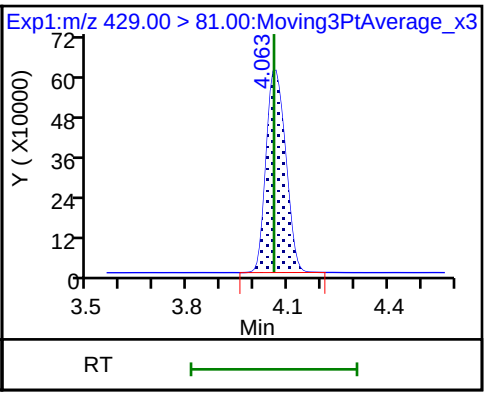
D 18 13C4 PFHpA



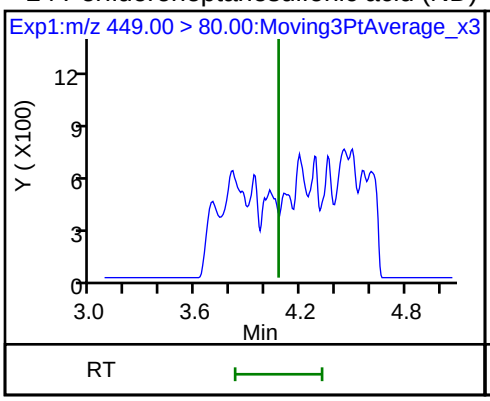
21 6:2 FTS



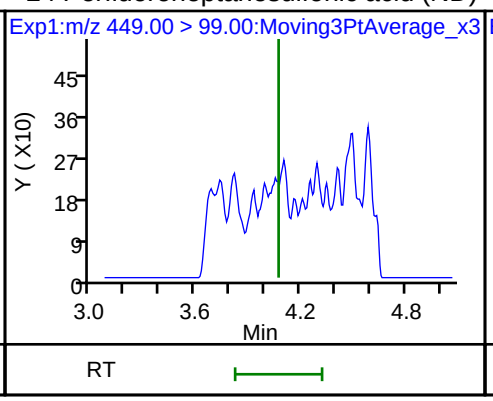
D 20 M2-6:2 FTS



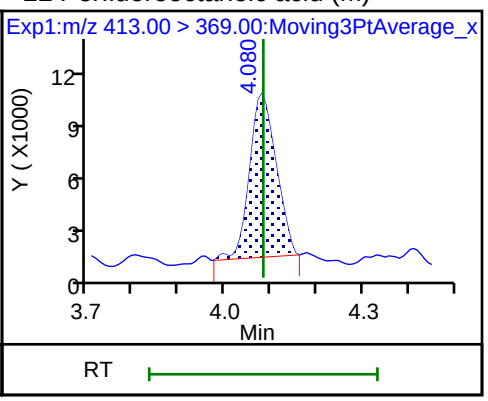
24 Perfluoroheptanesulfonic acid (ND)



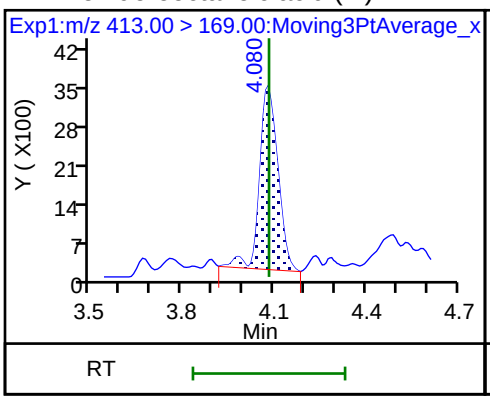
24 Perfluoroheptanesulfonic acid (ND)



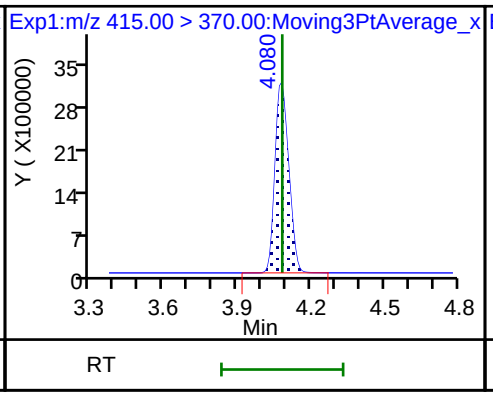
22 Perfluorooctanoic acid (M)



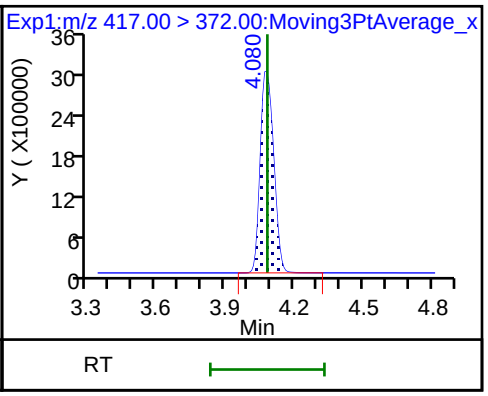
22 Perfluorooctanoic acid (M)



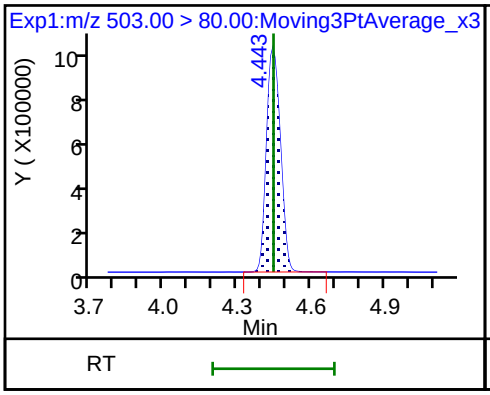
* 23 13C2 PFOA



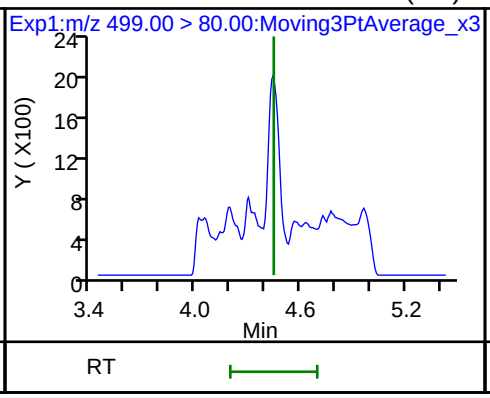
D 25 13C4 PFOA



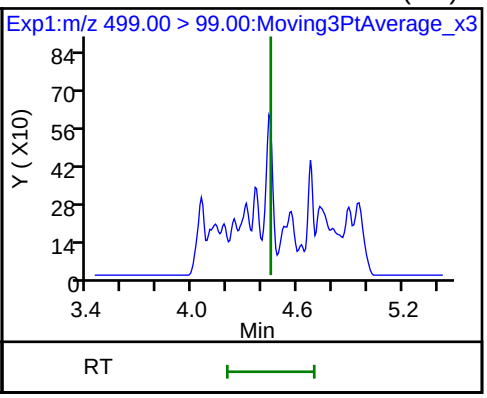
D 27 13C4 PFOS



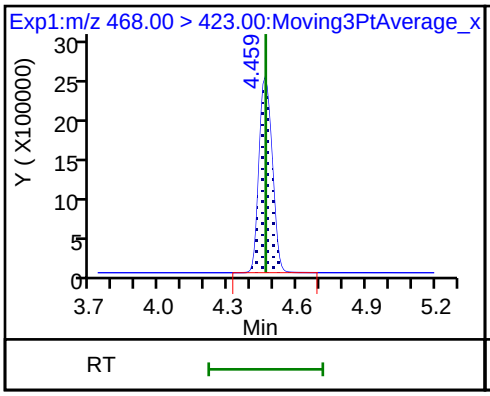
29 Perfluorooctanesulfonic acid (ND)



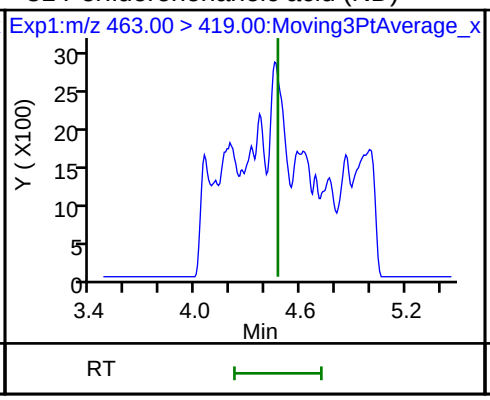
29 Perfluorooctanesulfonic acid (ND)



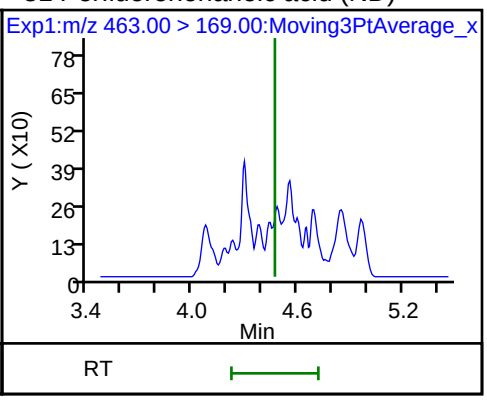
D 30 13C5 PFNA



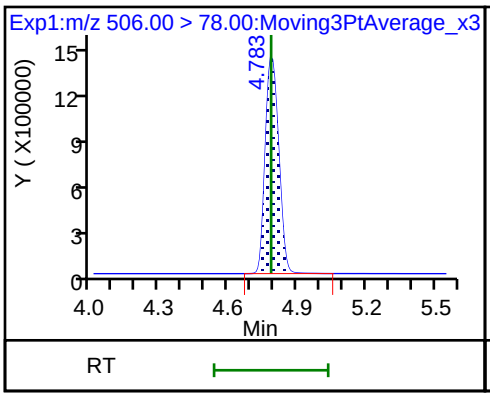
31 Perfluorononanoic acid (ND)



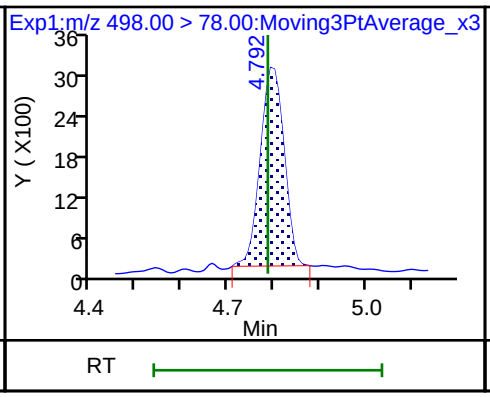
31 Perfluorononanoic acid (ND)



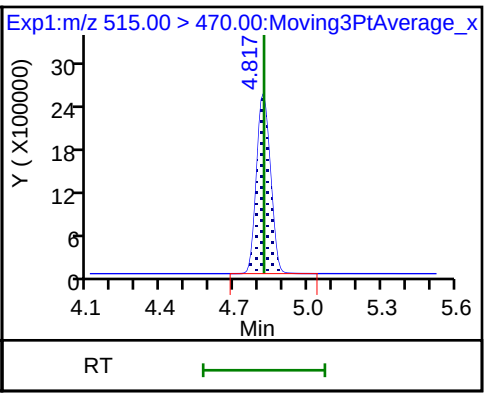
D 33 13C8 FOSA



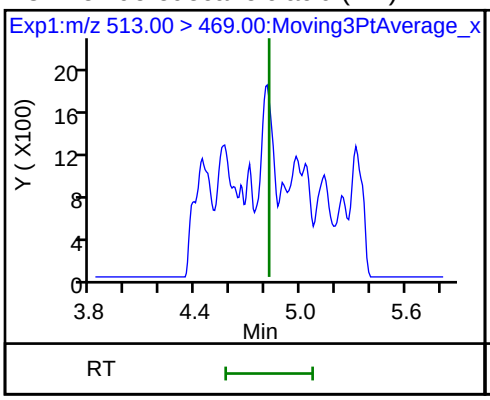
34 Perfluorooctanesulfonamide



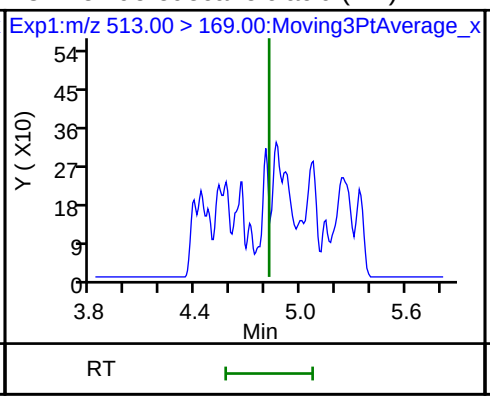
D 39 13C2 PFDA



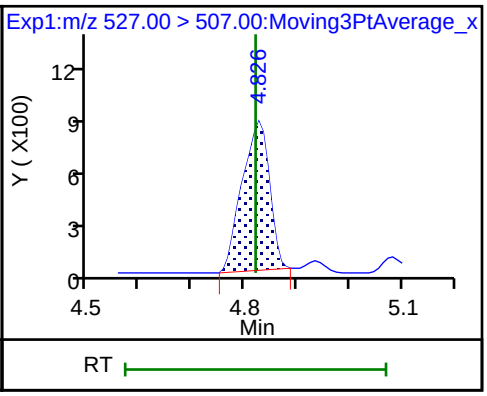
37 Perfluorodecanoic acid (ND)



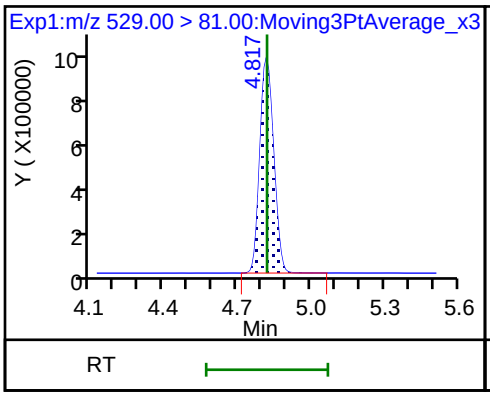
37 Perfluorodecanoic acid (ND)



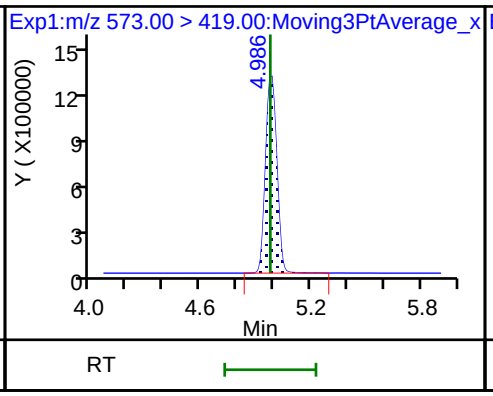
36 8:2 FTS



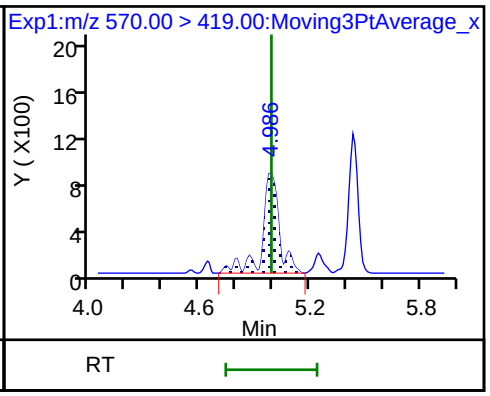
D 38 M2-8:2 FTS



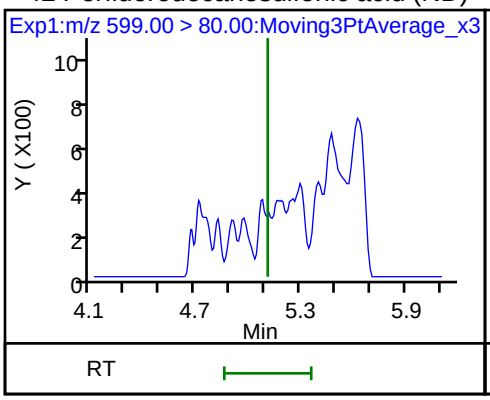
D 40 d3-NMeFOSAA



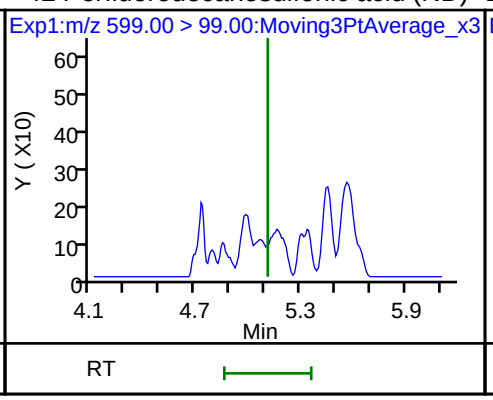
41 NMeFOSAA



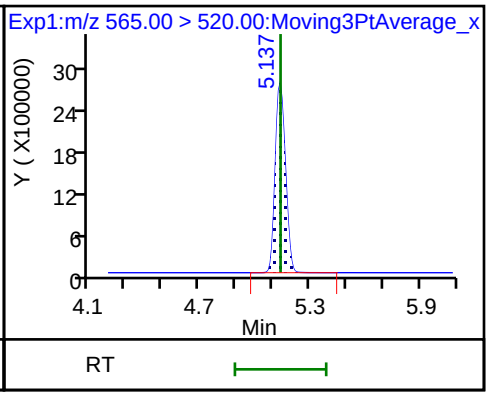
42 Perfluorodecanesulfonic acid (ND)



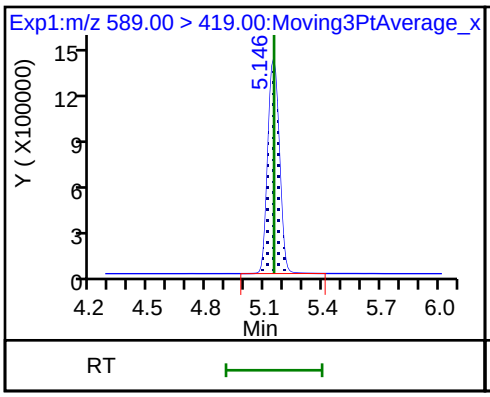
42 Perfluorodecanesulfonic acid (ND)



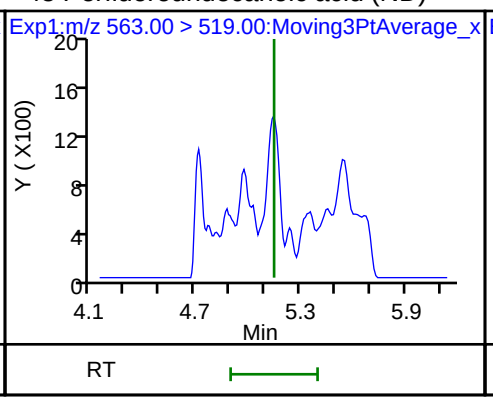
D 43 13C2 PFUnA



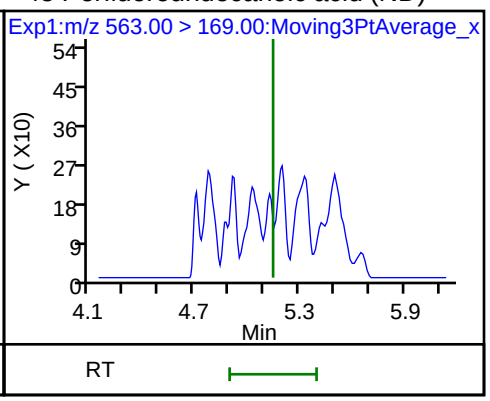
D 44 d5-NEtFOSAA



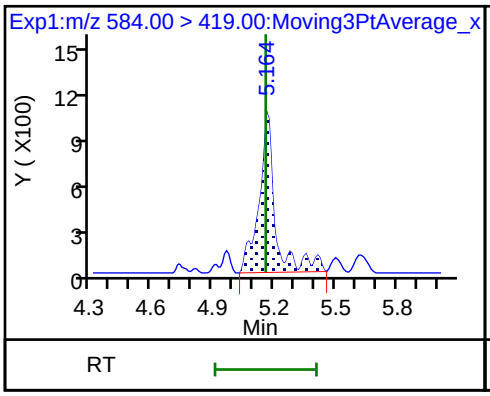
45 Perfluoroundecanoic acid (ND)



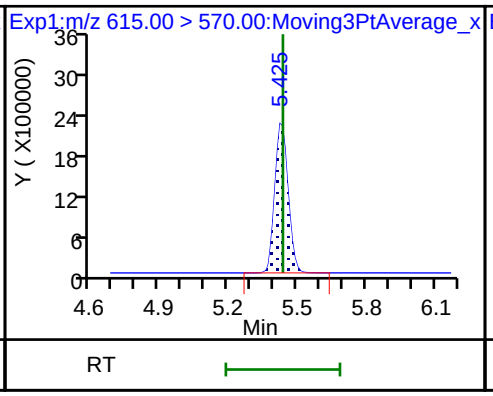
45 Perfluoroundecanoic acid (ND)



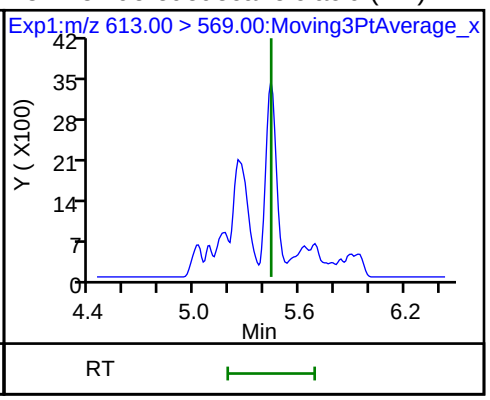
46 NEtFOSA



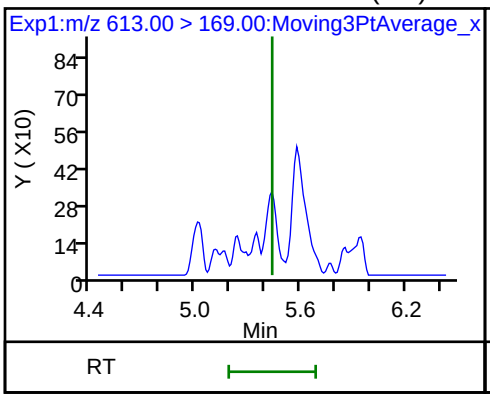
D 56 13C2 PFDoA



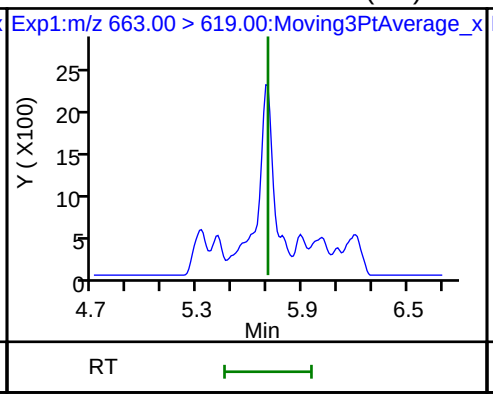
57 Perfluorododecanoic acid (ND)



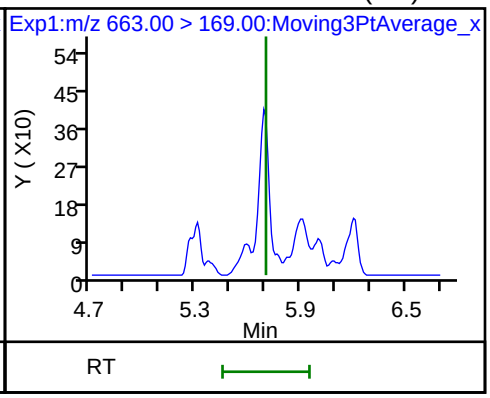
57 Perfluorododecanoic acid (ND)



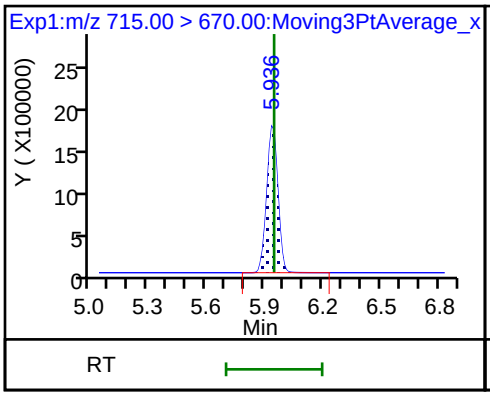
60 Perfluorotridecanoic acid (ND)



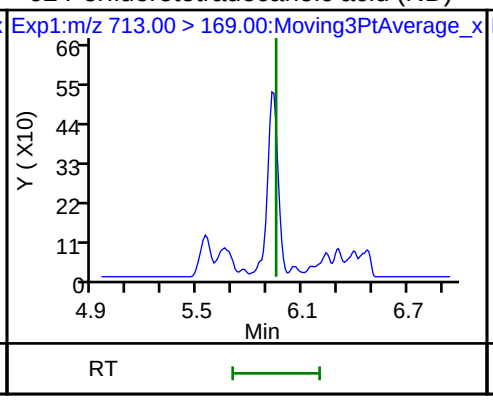
60 Perfluorotridecanoic acid (ND)



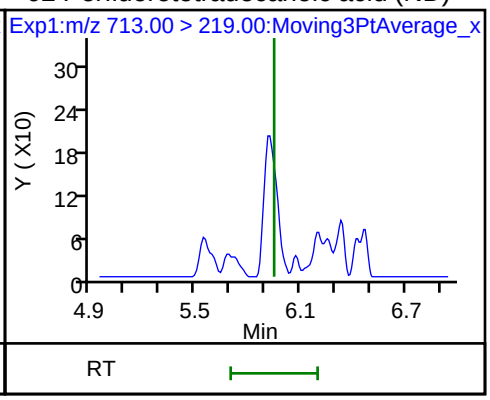
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Sacramento

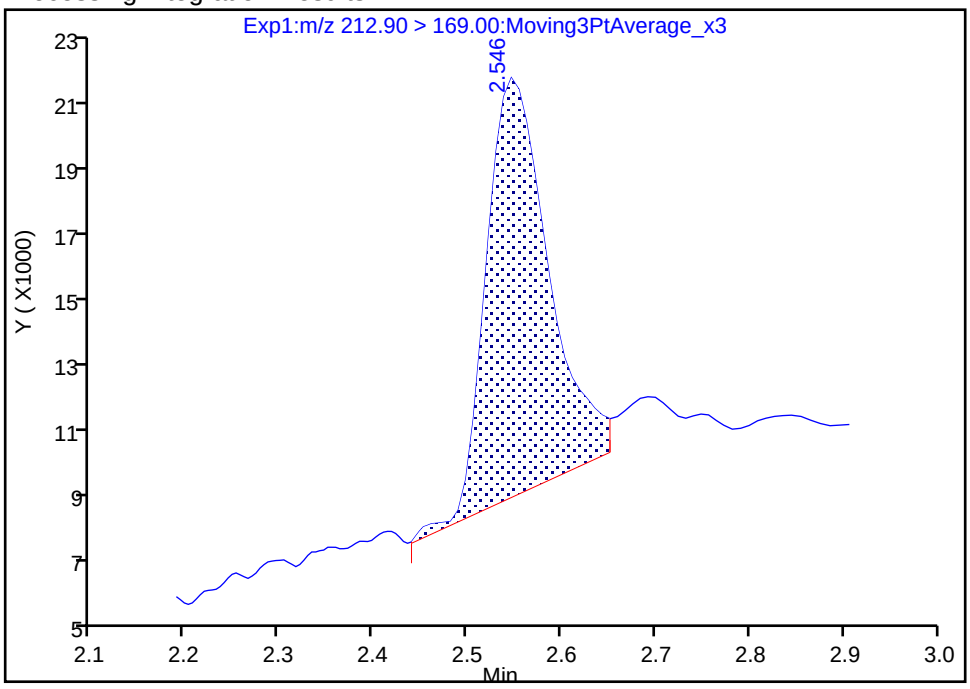
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d				
Injection Date:	10-Sep-2020 15:38:41	Instrument ID:	A18		
Lims ID:	460-217547-D-7-A	Lab Sample ID:	320-217547-7		
Client ID:	FB				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	41	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

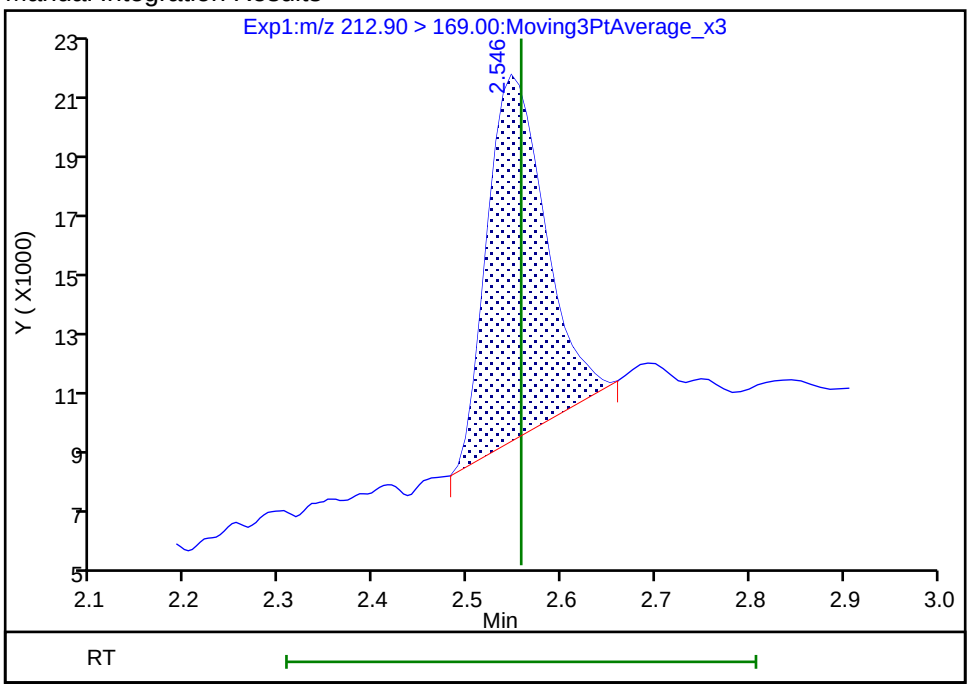
Processing Integration Results

RT: 2.55
Area: 55461
Amount: 0.010008
Amount Units: ng/ml



Manual Integration Results

RT: 2.55
Area: 49837
Amount: 0.008993
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:31:58
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

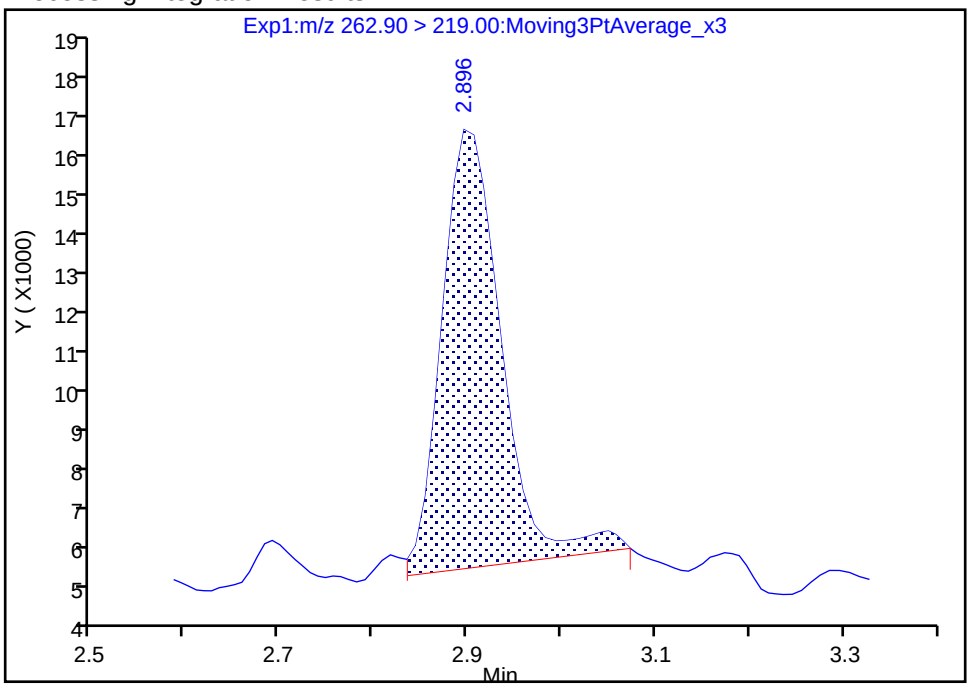
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d				
Injection Date:	10-Sep-2020 15:38:41	Instrument ID:	A18		
Lims ID:	460-217547-D-7-A	Lab Sample ID:	320-217547-7		
Client ID:	FB				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	41	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

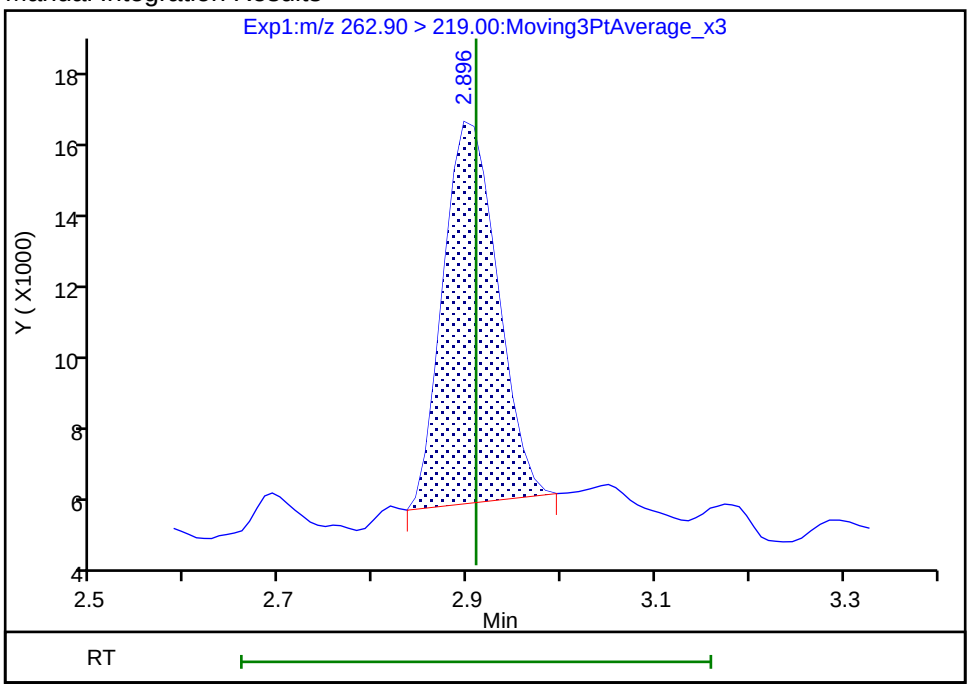
Processing Integration Results

RT: 2.90
Area: 47153
Amount: 0.008933
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 41578
Amount: 0.007877
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:32:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

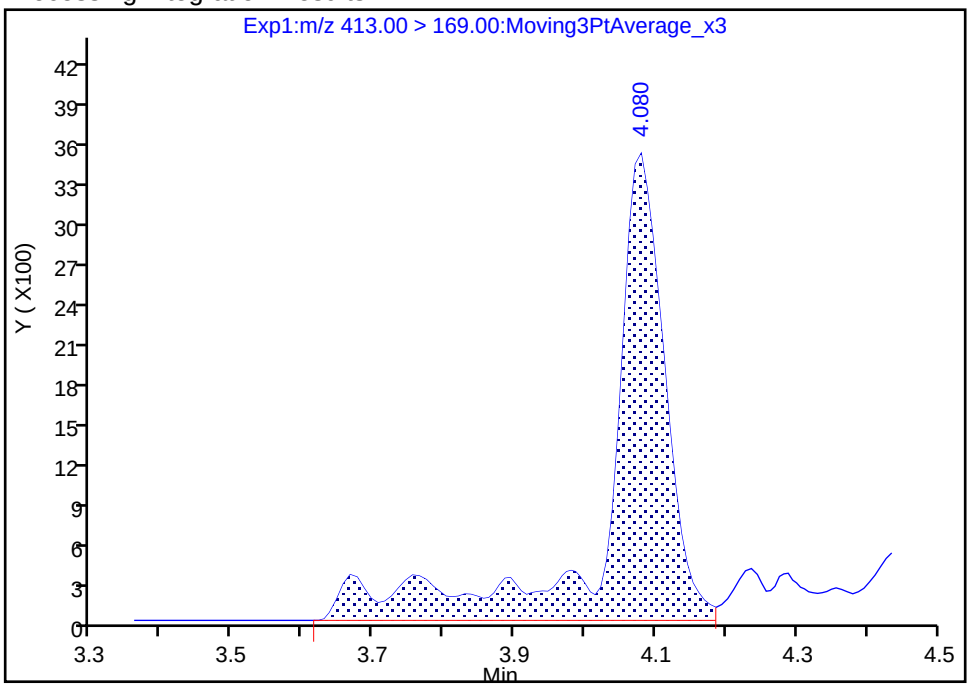
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d				
Injection Date:	10-Sep-2020 15:38:41	Instrument ID:	A18		
Lims ID:	460-217547-D-7-A	Lab Sample ID:	320-217547-7		
Client ID:	FB				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	41	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

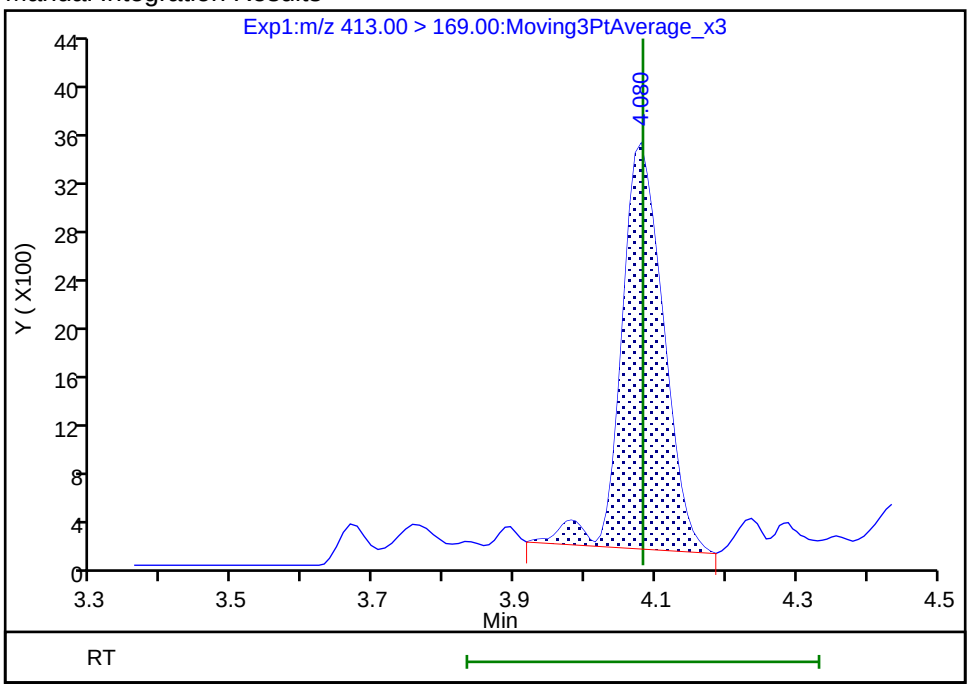
Processing Integration Results

RT: 4.08
Area: 19974
Amount: 0.016117
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 13816
Amount: 0.007196
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:32:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

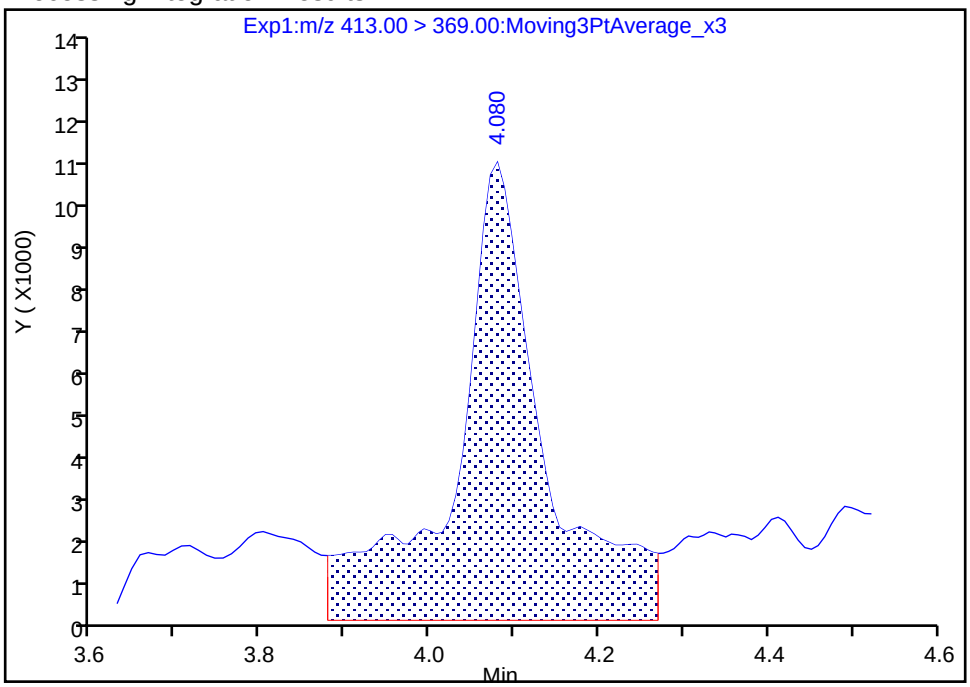
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d				
Injection Date:	10-Sep-2020 15:38:41	Instrument ID:	A18		
Lims ID:	460-217547-D-7-A	Lab Sample ID:	320-217547-7		
Client ID:	FB				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	41	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

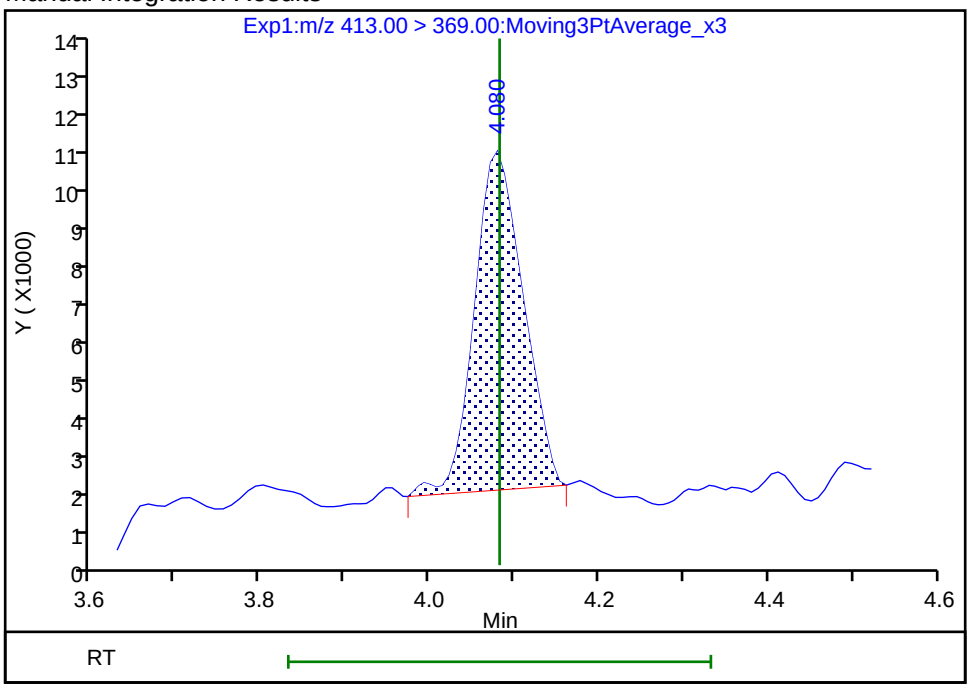
Processing Integration Results

RT: 4.08
Area: 78938
Amount: 0.016117
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 35247
Amount: 0.007196
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:32:43
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

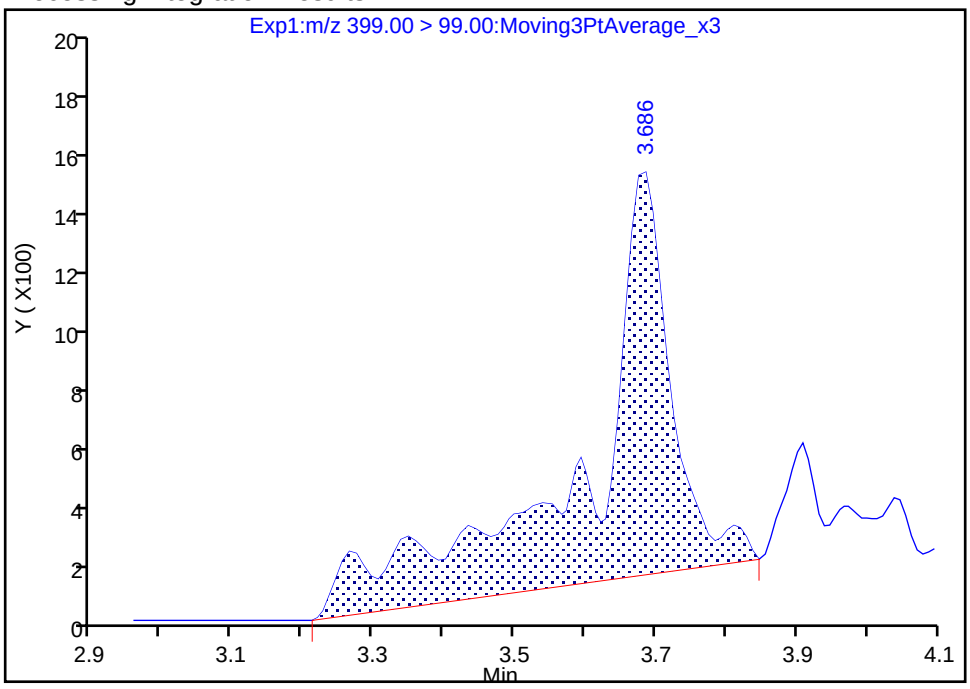
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d				
Injection Date:	10-Sep-2020 15:38:41	Instrument ID:	A18		
Lims ID:	460-217547-D-7-A	Lab Sample ID:	320-217547-7		
Client ID:	FB				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	41	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

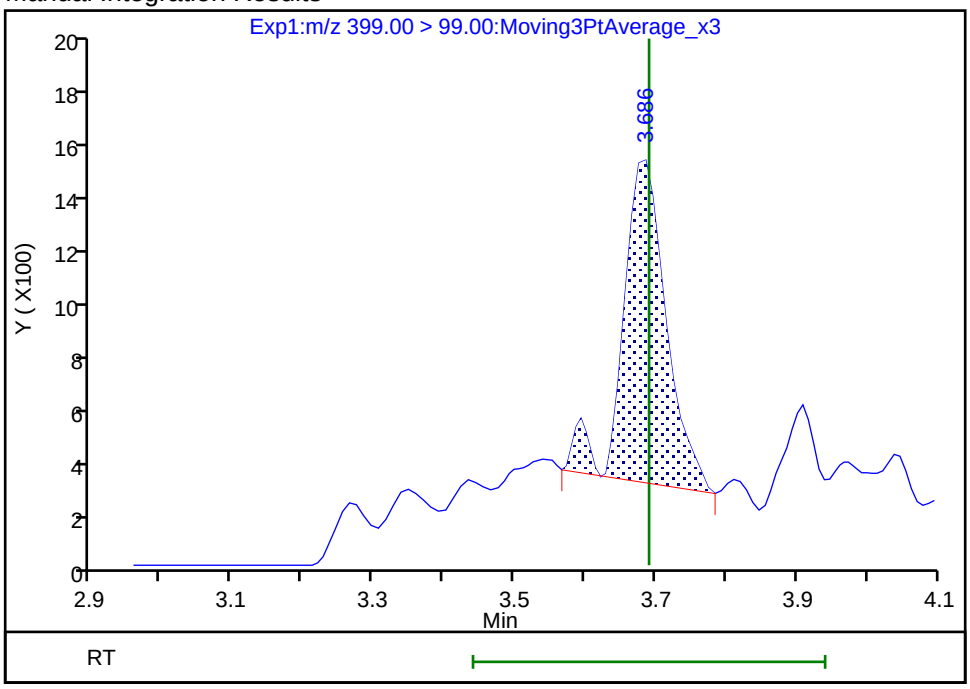
Processing Integration Results

RT: 3.69
Area: 11729
Amount: 0.012707
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 5141
Amount: 0.006789
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:32:22
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

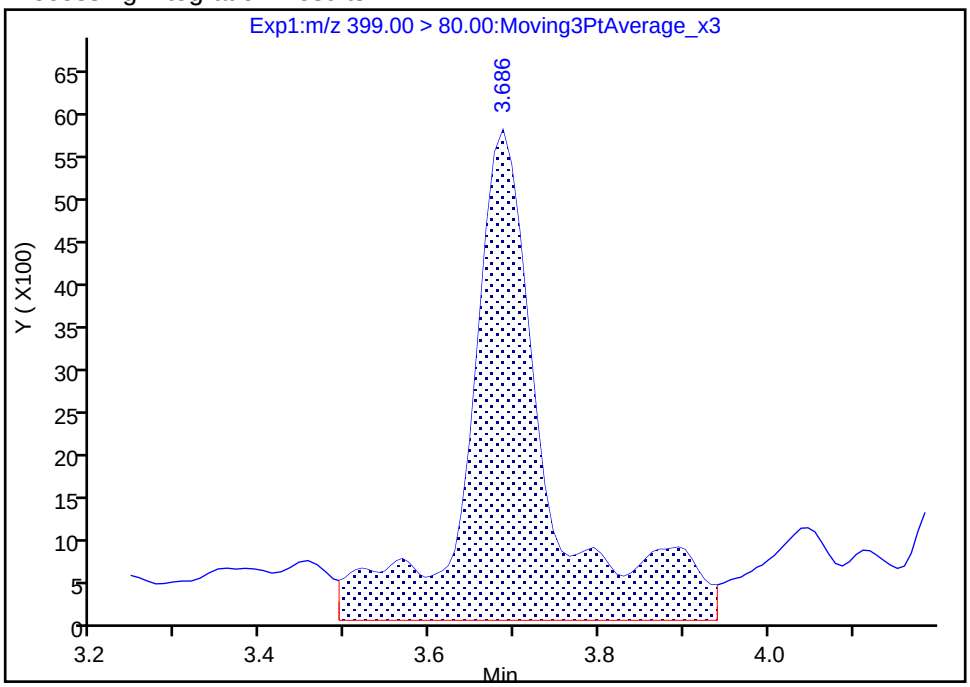
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_077.d				
Injection Date:	10-Sep-2020 15:38:41	Instrument ID:	A18		
Lims ID:	460-217547-D-7-A	Lab Sample ID:	320-217547-7		
Client ID:	FB				
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	41	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

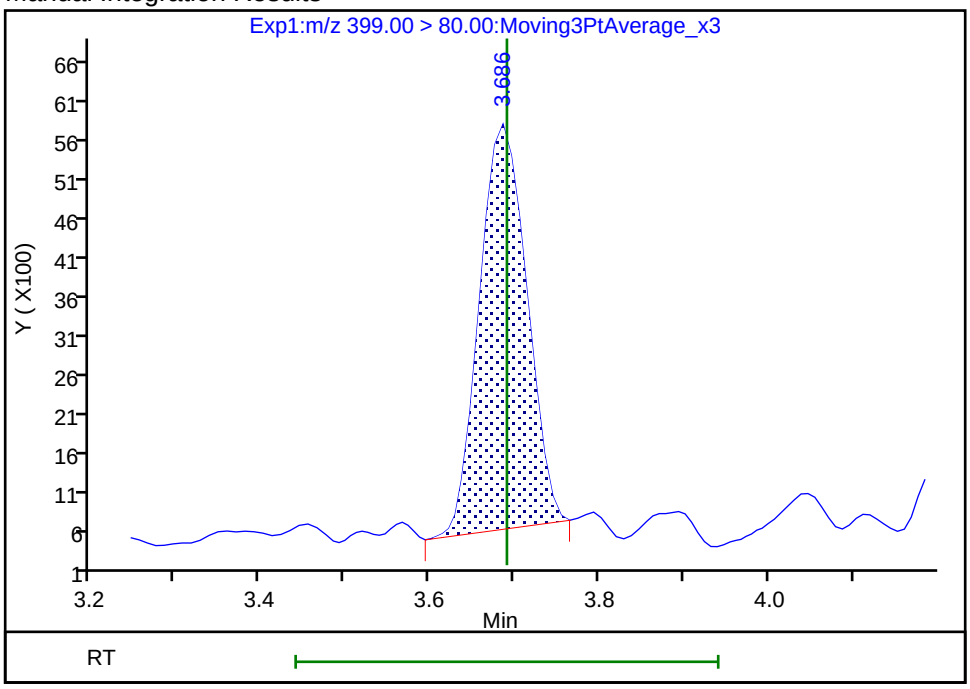
Processing Integration Results

RT: 3.69
Area: 37203
Amount: 0.012707
Amount Units: ng/ml



Manual Integration Results

RT: 3.69
Area: 19878
Amount: 0.006789
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:32:29
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-406555/2	2020.08.25_A18_ICAL_A_011.d
Level 2	IC 320-406555/3	2020.08.25_A18_ICAL_A_012.d
Level 3	IC 320-406555/4	2020.08.25_A18_ICAL_A_013.d
Level 4	IC 320-406555/5	2020.08.25_A18_ICAL_A_014.d
Level 5	IC 320-406555/6	2020.08.25_A18_ICAL_A_015.d
Level 6	IC 320-406555/7	2020.08.25_A18_ICAL_A_016.d
Level 7	IC 320-406555/8	2020.08.25_A18_ICAL_A_017.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	+++++ 0.8788	0.7965 0.8642	0.8164	0.9194	0.9321	AveID		0.8679				6.2		35.0			
Perfluoropentanoic acid (PFPeA)	+++++ 0.9457	1.0311 0.9616	0.9644	1.0091	1.0698	AveID		0.9969				4.8		35.0			
Perfluorobutanesulfonic acid (PFBS)	0.9991 1.0276	0.9511 1.0015	0.9275	1.0686	1.0932	AveID		1.0098				5.9		35.0			
4:2 FTS	2.0216 2.3707	2.0450 2.2387	2.1336	2.5678	2.5339	AveID		2.2730				9.8		35.0			
Perfluorohexanoic acid (PFHxA)	+++++ 0.8742	0.9654 0.9122	0.8917	1.0185	1.1210	AveID		0.9638				9.7		35.0			
Perfluoropentanesulfonic acid (PFPeS)	0.7018 0.8012	0.7340 0.8037	0.7819	0.8355	0.8896	AveID		0.7925				7.9		50.0			
HFPO-DA (GenX)	0.9638 0.9900	0.9277 0.9605	0.8878	1.0532	1.0362	AveID		0.9742				6.0		35.0			
Perfluoroheptanoic acid (PFHpA)	0.9657 1.0262	1.0856 1.0314	0.9662	1.0290	0.9922	AveID		1.0138				4.2		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3549 1.1392	1.2167 1.1235	1.1779	1.1229	1.1351	AveID		1.1815				7.1		35.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.7475 9.6941	9.1253 8.7505	9.6406	10.603	10.515	AveID		9.5823				8.0		50.0			
6:2 FTS	2.5128 2.1863	2.3177 2.1277	2.1707	2.3703	2.4061	AveID		2.2988				6.2		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.0496 1.1462	1.0544 1.0987	1.0930	1.2039	1.1775	AveID		1.1176				5.3		50.0			
Perfluorooctanoic acid (PFOA)	1.2170 0.9082	1.0137 0.9113	0.9517	1.0603	1.0805	AveID		1.0204				10.8		35.0			
Perfluorooctanesulfonic acid (PFOS)	0.9513 1.0616	0.9642 1.0536	1.0050	1.0923	1.1172	AveID		1.0350				6.1		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	0.8810 0.9408	0.8811 0.8429	0.9927	1.0431	1.1314	AveID		0.9590				10.8		35.0			
F-53B Major	2.8508 3.4000	2.9376 3.3635	3.1240	3.4960	3.4797	AveID		3.2359				8.2		50.0			
Perfluorooctanesulfonamide (FOSA)	0.8894 0.9173	0.8822 0.9652	0.9146	0.9866	0.9581	AveID		0.9305				4.3		35.0			
Perfluorononanesulfonic acid (PFNS)	0.8871 0.9502	0.8702 0.8714	0.9991	1.0097	0.9702	AveID		0.9368				6.4		50.0			
Perfluorodecanoic acid (PFDA)	0.9378 0.9491	0.8229 0.9723	0.9683	1.0939	1.0030	AveID		0.9639				8.4		35.0			
8:2 FTS	1.7244 1.8051	1.6240 1.7293	1.6603	1.9392	1.9431	AveID		1.7750				7.2		35.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.6674 0.7910	0.6947 0.8236	0.6940	0.7669	0.7541	AveID		0.7417				7.8		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.7191 0.8607	0.8409 0.8384	0.8239	0.8818	0.8804	AveID		0.8350				6.7		50.0			
Perfluoroundecanoic acid (PFUnA)	0.7260 0.7106	0.6358 0.7376	0.6759	0.8020	0.7891	AveID		0.7253				8.1		35.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.5603 0.7625	0.5831 0.7960	0.5972	0.6909	0.7407	AveID		0.6758				14.1		35.0			
NMeFOSE	0.8745 1.0752	1.0568 1.1205	1.0494	1.1409	1.2394	AveID		1.0795				10.3		35.0			
NMeFOSA	0.8276 0.9664	0.8511 0.9292	0.9210	1.1205	1.1082	AveID		0.9606				12.0		35.0			
F-53B Minor	3.4882 4.3805	3.7488 4.3313	3.8166	4.3761	4.5705	AveID		4.1017				10.0		50.0			
NEtFOSE	0.8260 1.1506	1.0227 1.0006	1.1349	1.2093	1.1662	AveID		1.0729				12.4		35.0			
NEtFOSA	0.9349 1.0028	1.1274 1.0135	1.0349	1.1506	1.1446	AveID		1.0584				7.9		35.0			
Perfluorododecanoic acid (PFDoA)	+++++ 0.9888	0.9762 0.9710	1.0603	1.0333	1.1055	AveID		1.0225				5.2		35.0			
10:2 FTS	1.9258 2.0619	1.8782 1.9418	1.9881	2.1950	2.1074	AveID		2.0140				5.6		50.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3213 0.3398	0.3485 0.3461	0.3092	0.3309	0.3343	AveID		0.3329				4.2		50.0			
Perfluorotridecanoic acid (PFTriA)	+++++ 0.8975	1.0195 0.9651	0.8649	0.8530	1.0452	AveID		0.9409				8.6		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.0766 0.0842	0.0886 0.0813	0.0881	0.0809	0.0910	AveID		0.0844				6.1		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7564 0.8053	1.2050 0.8810	0.9850	0.9458	0.9386	L2ID	0.0209	0.8774							0.9940		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.5234 0.6068	0.5953 0.7289	0.6417	0.7743	0.7528	AveID		0.6605				14.2		50.0			
13C4 PFBA	1.4854 1.5534	1.5421 1.6647	1.5768	1.5783	1.6967	Ave		1.5853				4.6		50.0			
13C5 PFPeA	1.1603 1.2478	1.2281 1.2625	1.2428	1.2199	1.2708	Ave		1.2332				3.0		50.0			
13C3 PFBS	0.9184 0.9290	0.9519 0.9767	0.9599	0.9964	1.0460	Ave		0.9684				4.5		50.0			
M2-4:2 FTS	0.2314 0.2175	0.2422 0.2211	0.2496	0.2293	0.2420	Ave		0.2333				5.1		50.0			
13C2 PFHxA	1.1847 1.2587	1.2322 1.2477	1.2900	1.1997	1.2029	Ave		1.2308				3.0		50.0			
13C3 HFPO-DA	0.2399 0.2430	0.2515 0.2670	0.2514	0.2401	0.2698	Ave		0.2518				4.9		50.0			
13C4 PFHpA	1.0083 1.0317	0.9866 1.0121	1.1007	1.0434	1.1733	Ave		1.0509				6.2		50.0			
18O2 PFHxS	0.4858 0.4906	0.5012 0.5086	0.5110	0.5255	0.5595	Ave		0.5117				4.9		50.0			
M2-6:2 FTS	0.2010 0.1781	0.1997 0.1736	0.2065	0.2058	0.2059	Ave		0.1958				7.1		50.0			
13C4 PFOA	0.9236 0.9997	1.0415 0.9443	1.0722	0.9898	1.0356	Ave		1.0010				5.4		50.0			
13C4 PFOS	0.3281 0.3319	0.3442 0.3575	0.3457	0.3467	0.3717	Ave		0.3465				4.3		50.0			
13C5 PFNA	0.8219 0.7315	0.8187 0.8002	0.8044	0.8027	0.8644	Ave		0.8063				4.9		50.0			
13C8 FOSA	0.5270 0.5418	0.5658 0.5665	0.5522	0.5530	0.6069	Ave		0.5590				4.5		50.0			
13C2 PFDA	0.8732 0.7154	0.8807 0.7081	0.7436	0.7795	0.7798	Ave		0.7829				8.9		50.0			
M2-8:2 FTS	0.2960 0.2431	0.3133 0.2311	0.3142	0.2911	0.2874	Ave		0.2823				11.6		50.0			
d3-NMeFOSAA	0.5076 0.5114	0.5129 0.5478	0.5205	0.5087	0.5694	Ave		0.5255				4.5		50.0			
13C2 PFUnA	0.7114 0.7856	0.8107 0.7732	0.8014	0.8125	0.7359	Ave		0.7758				5.0		50.0			
d5-NEtFOSAA	0.5713 0.5011	0.5803 0.4848	0.5887	0.5782	0.5848	Ave		0.5556				7.8		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
d7-N-MeFOSE-M	0.1392 0.1395	0.1294 0.1537	0.1367	0.1276	0.1426	Ave		0.1384				6.3		50.0			
d-N-MeFOSA-M	0.1715 0.2053	0.1856 0.2297	0.1831	0.1918	0.2087	Ave		0.1965				9.9		50.0			
d9-N-EtFOSE-M	0.1674 0.1537	0.1547 0.1945	0.1609	0.1600	0.1985	Ave		0.1700				11.0		50.0			
d-N-EtFOSA-M	0.1850 0.2116	0.1869 0.2306	0.1873	0.1941	0.2124	Ave		0.2011				8.6		50.0			
13C2 PFDoA	+++++ 0.7181	0.7408 0.7234	0.8064	0.8535	0.7481	Ave		0.7650				7.0		50.0			
13C2 PFTeDA	0.6585 0.6504	0.6437 0.5917	0.6092	0.6375	0.6269	Ave		0.6311				3.8		50.0			
13C2 PFHxDA	0.4614 0.4576	0.4945 0.4749	0.4342	0.4213	0.4889	Ave		0.4618				5.9		50.0			
13C8 PFOA	0.6749 0.6190	0.7076 0.6808	0.6965	0.6849	0.6656	Ave		0.6756				4.2		50.0			
13C8 PFOS	0.1054 0.1058	0.1104 0.1078	0.1092	0.1077	0.1112	Ave		0.1082				2.0		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-406555/2	2020.08.25_A18_ICAL_A_011.d
Level 2	IC 320-406555/3	2020.08.25_A18_ICAL_A_012.d
Level 3	IC 320-406555/4	2020.08.25_A18_ICAL_A_013.d
Level 4	IC 320-406555/5	2020.08.25_A18_ICAL_A_014.d
Level 5	IC 320-406555/6	2020.08.25_A18_ICAL_A_015.d
Level 6	IC 320-406555/7	2020.08.25_A18_ICAL_A_016.d
Level 7	IC 320-406555/8	2020.08.25_A18_ICAL_A_017.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	+++++ 30004201	279410 56740145	1434703	6131943	15043941	+++++ 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	+++++ 25936244	288057 47880922	1335754	5201851	12932809	+++++ 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	99013 18549061	182071 34105255	877185	3977334	9615968	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	53342 10586753	105243 18232538	554249	2323852	5448117	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	+++++ 24185372	270599 44890403	1281954	5163146	12827055	+++++ 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	73804 15346854	149083 29038841	784647	3300035	8302940	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	28220 5287445	53068 10115867	248757	1068621	2659360	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	118869 23268900	243648 41173087	1185266	4537270	11074099	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	73118 11177725	126222 20508587	610412	2269071	5498056	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	330079 66616540	673135 116216620	3498730	14631457	35025003	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	58465 8115080	99806 13812377	473474	1954343	4467087	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	40027 7960398	78602 14746979	400864	1678911	3963683	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanoic acid (PFOA)		AveID	137219 19956418	240184 33940571	1137192	4439056	10655191	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	35364 7186938	70065 13785552	359317	1484922	3665824	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	88392 15126434	164095 26602259	889961	3545158	9321539	0.0250 5.00	0.0500 10.0	0.250	1.00	2.51

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
F-53B Major		AveID	106429 23116216	214392 44196767	1121719	4773068	11467134	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctanesulfonamide (FOSA)		AveID	57218 10924659	113545 21565996	562825	2305329	5530939	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	34114 6654063	65415 11794985	369502	1419890	3293468	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveID	99970 14925465	164851 27154808	802442	3603160	7439717	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
8:2 FTS		AveID	59696 9239140	110874 15102670	556880	2284820	5089997	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	41357 8891336	81058 17794078	402573	1648495	4084387	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	27769 6052828	63477 11394459	305989	1245321	3000844	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveID	63047 12270214	117260 22491178	603692	2756370	5529773	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	39077 8399275	76967 15220352	391811	1688059	4120421	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NMeFOSE		AveID	14857 3296405	31116 6794003	159827	615221	1681316	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NMeFOSA		AveID	17321 4360251	35943 8417031	187901	907971	2200383	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
F-53B Minor		AveID	131623 30101960	276531 57524539	1385108	6038721	15223672	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
NEtFOSE		AveID	16882 3886177	35999 7675582	203478	817562	2201944	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NEtFOSA		AveID	21111 4663831	47929 9216155	215981	943681	2312855	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorododecanoic acid (PFDoA)		AveID	+++++ 15608260	164490 27702397	952853	3749242	7914890	+++++ 5.00	0.0500 10.0	0.250	1.01	2.52
10:2 FTS		AveID	67089 10619740	129032 17064790	671004	2602419	5554903	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveID	12460 2399332	26418 4723160	115329	469292	1144299	0.0242 4.84	0.0484 9.68	0.242	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveID	+++++ 14166734	171790 27534864	777286	3076494	7438469	+++++ 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	6156 1203652	12981 1898401	59784	218083	543432	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	98927 8100551	135536 16501588	476686	1683662	4364853	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	29478 6103585	66963 13652717	310536	1378512	3501130	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4 PFBA	13PF OA	Ave	18132924 17071288	17539640 16413711	17572811	16673548	16140239	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PF OA	Ave	14164604 13713409	13968137 12448068	13850765	12887366	12089027	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 PFBS	13PF OA	Ave	10426219 9495273	10069352 8956338	9949547	9789648	9254167	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2 FTS	13PF OA	Ave	2638569 2232877	2573214 2036093	2597711	2262460	2150089	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PF OA	Ave	14462351 13833154	14014978 12302361	14376817	12673553	11442684	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PF OA	Ave	2927999 2670374	2860041 2632961	2802026	2536511	2566383	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFHpA	13PF OA	Ave	12308941 11337825	11221961 9979836	12267287	11023105	11161570	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	5610177 5100068	5392336 4743964	5387347	5251864	5035082	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2 FTS	13PF OA	Ave	2331568 1859778	2157624 1626381	2185821	2065620	1860491	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	11275248 10986603	11846326 9310596	11949440	10456450	9851180	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	3829485 3486990	3743125 3369647	3683093	3501137	3380331	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	10032863 8038803	9311565 7890530	8965418	8480054	8222813	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	6433355 5954676	6435127 5585611	6153721	5841724	5772966	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDA	13PF OA	Ave	10660071 7862594	10016493 6981751	8286827	8234495	7417834	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2 FTS	13PF OA	Ave	3461927 2559241	3413693 2183392	3354161	2945635	2619467	2.40 2.40	2.40 2.40	2.40	2.40	2.40
d3-NMeFOSAA	13PF OA	Ave	6196740 5620374	5834171 5401400	5800390	5374136	5416409	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	8683933 8633431	9221199 7623503	8931580	8583621	7000959	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	6974320 5507372	6600178 4780383	6561199	6107918	5563223	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d7-N-MeFOSE-M	13PF OA	Ave	8494552 7664729	7361005 7579410	7614914	6740557	6782732	12.5 12.5	12.5 12.5	12.5	12.5	12.5
d-N-MeFOSA-M	13PF OA	Ave	2093005 2255932	2111503 2264660	2040174	2025907	1985528	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d9-N-EtFOSE-M	13PF OA	Ave	10219224 8444122	8799748 9589089	8964785	8451063	9440764	12.5 12.5	12.5 12.5	12.5	12.5	12.5

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 406555

SDG No.:

Instrument ID: A18 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2020 16:43 Calibration End Date: 08/25/2020 17:37 Calibration ID: 51647

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
d-N-EtFOSA-M	13PF OA	Ave	2258068 2325340	2125583 2273331	2086889	2050346	2020717	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	+++++ 7892285	8425257 7132495	8986881	9016643	7116690	+++++ 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFTeDA	13PF OA	Ave	8038301 7148108	7321736 5834435	6789692	6734824	5963271	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFHxDA	13PF OA	Ave	5632241 5029525	5624126 4682798	4839549	4450584	4650620	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 PFOA	13PF OA	Ave	8066210 6660436	7878856 6572152	7599439	7083297	6198885	2.45 2.45	2.45 2.45	2.45	2.45	2.45
13C8 PFOS	13PF OA	Ave	1229842 1111635	1200648 1015761	1162967	1087755	1011458	2.39 2.39	2.39 2.39	2.39	2.39	2.39

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Lims ID: IC STD 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Aug-2020 16:43:14 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 1 (21)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:42:16 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 10:42:16
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.576	2.577	-0.001	0.619	18132924	2.34		93.7	10249	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.576	2.580	-0.004	1.000	143339	0.0228		91.1	5.5	
D 4 13C5 PFPeA										
267.90 > 223.00	2.944	2.941	0.003	0.707	14164604	2.35		94.1	5748	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.944	2.941	0.003	1.000	175237	0.0310		124	8.5	M
D 9 13C3 PFBS										
301.90 > 80.00	2.979	2.977	0.002	0.716	10426219	2.20		94.8	4404	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.979	2.982	-0.003	1.000	99013	0.0219	Target=2.30	98.9	22.2	
298.90 > 99.00	2.979	2.982	-0.003	1.000	43417		2.28(1.15-3.45)	98.9	16.5	
8 4:2 FTS										
327.00 > 307.00	3.297	3.288	0.009	1.000	53342	0.0208		88.9	419	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.297	3.288	0.009	0.792	2638569	2.32		99.2	1063	
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.339	3.334	0.005	1.000	139898	0.0251	Target=13.78	100	11.4	M
313.00 > 119.00	3.339	3.334	0.005	1.000	10432		13.41(6.89-20.66)	100	7.9	
D 11 13C2 PFHxA										
315.00 > 270.00	3.339	3.334	0.005	0.802	14462351	2.41		96.3	8500	
12 Perfluoropentanesulfonic acid										M
349.00 > 80.00	3.350	3.349	0.001	1.124	73804	0.0208	Target=3.02	88.6	17.5	
349.00 > 99.00	3.350	3.349	0.001	1.124	24636		3.00(1.51-4.52)	88.6	17.4	M
13 HPFO-DA										
285.00 > 169.00	3.467	3.463	0.004	1.000	28220	0.0247		98.9	125	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.467	3.463	0.004	0.833	2927999	2.38		95.3	6688	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.756	3.750	0.006	1.000	118869	0.0238	Target=3.84	95.3	14.8	
363.00 > 169.00	3.756	3.750	0.006	1.000	29948		3.97(1.92-5.76)	95.3	20.4	
D 18 13C4 PFHpA										
367.00 > 322.00	3.756	3.750	0.006	0.902	12308941	2.40		95.9	6338	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.756	3.752	0.004	1.000	73118	0.0261	Target=3.50	115	22.6	M
399.00 > 99.00	3.756	3.752	0.004	1.000	20749		3.52(1.75-5.25)	115	16.9	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.756	3.752	0.004	0.902	5610177	2.25		94.9	5610	
19 DONA										
377.00 > 251.00	3.803	3.800	0.003	0.841	330079	0.0215	Target=2.42	91.3	430	
377.00 > 85.00	3.803	3.800	0.003	0.841	131465		2.51(1.21-3.63)	91.3	159	
21 6:2 FTS										
427.00 > 407.00	4.137	4.127	0.010	1.000	58465	0.0259		109	100	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.137	4.127	0.010	0.994	2331568	2.44		103	1568	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.154	4.143	0.011	0.918	40027	0.0224	Target=4.40	93.9	21.0	
449.00 > 99.00	4.154	4.143	0.011	0.918	9664		4.14(2.20-6.60)	93.9	14.8	
$ 26 13C8 PFOA										
421.00 > 376.00	4.154	4.147	0.007	0.998	8066210	2.44		99.9	8438	
D 25 13C4 PFOA										
417.00 > 372.00	4.162	4.150	0.012	1.000	11275248	2.31		92.3	6321	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.154	4.150	0.004	0.998	137219	0.0298	Target=2.94	119	21.3	M
413.00 > 169.00	4.162	4.150	0.012	1.000	49716		2.76(1.47-4.41)	119	51.7	M
* 23 13C2 PFOA										
415.00 > 370.00	4.162	4.151	0.011		12207545	2.50			7584	
$ 28 13C8 PFOS										
507.00 > 99.00	4.523	4.514	0.009	1.087	1229842	2.33		97.4	3635	
D 27 13C4 PFOS										
503.00 > 80.00	4.523	4.516	0.007	1.087	3829485	2.26		94.7	1472	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.531	4.518	0.013	1.002	35364	0.0213	Target=4.53	91.9	11.4	M
499.00 > 99.00	4.523	4.518	0.005	1.000	9090		3.89(2.26-6.79)	91.9	13.4	M
D 30 13C5 PFNA										
468.00 > 423.00	4.540	4.533	0.007	1.091	10032863	2.55		102	16542	
31 Perfluorononanoic acid										M
463.00 > 419.00	4.548	4.537	0.011	1.002	88392	0.0230	Target=8.97	91.9	16.8	M
463.00 > 169.00	4.540	4.537	0.003	1.000	9163		9.65(4.48-13.45)	91.9	14.9	M
32 9ClFOS										
531.00 > 351.00	4.730	4.724	0.006	1.046	106429	0.0205		88.1	346	
D 33 13C8 FOSA										
506.00 > 78.00	4.828	4.830	-0.002	1.160	6433355	2.36		94.3	4831	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.828	4.830	-0.002	1.000	57218	0.0239		95.6	374	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.880	4.868	0.012	1.079	34114	0.0227	Target=2.85	94.7	23.3	
549.00 > 99.00	4.871	4.868	0.003	1.077	11224		3.04(1.43-4.28)	94.7	20.6	
D 39 13C2 PFDA										
515.00 > 470.00	4.897	4.892	0.005	1.177	10660071	2.79		112	11551	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.907	4.897	0.010	1.179	3461927	2.51		105	1707	
36 8:2 FTS										
527.00 > 507.00	4.907	4.898	0.009	1.000	59696	0.0233		97.1	522	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.907	4.896	0.011	1.002	99970	0.0243	Target=10.16	97.3	38.6	
513.00 > 169.00	4.897	4.896	0.001	1.000	10410		9.60(5.08-15.24)	97.3	19.9	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.075	5.062	0.013	1.219	6196740	2.42		96.6	3666	
41 NMeFOSAA										M
570.00 > 419.00	5.075	5.065	0.010	1.000	41357	0.0225		90.0	94.0	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.202	5.191	0.011	1.150	27769	0.0208	Target=2.77	86.1	26.5	
599.00 > 99.00	5.202	5.191	0.011	1.150	11556		2.40(1.38-4.15)	86.1	48.3	
D 43 13C2 PFUnA										
565.00 > 520.00	5.229	5.221	0.008	1.256	8683933	2.29		91.7	10133	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.229	5.221	0.008	1.000	63047	0.0250	Target=8.43	100	38.1	
563.00 > 169.00	5.238	5.221	0.017	1.002	6430		9.81(4.22-12.65)	100	11.0	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.238	5.227	0.011	1.259	6974320	2.57		103	7941	
46 NEtFOSA										M
584.00 > 419.00	5.248	5.236	0.012	1.002	39077	0.0207		82.9	171	M
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.279	5.272	0.007	1.268	8494552	12.6		101	3512	
48 N-MeFOSE-M										
616.00 > 59.00	5.289	5.285	0.004	1.002	14857	0.0203		81.0	20.5	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.299	5.295	0.004	1.273	2093005	2.18		87.2	47.1	
50 NMeFOSA										M
512.00 > 169.00	5.299	5.301	-0.002	1.000	17321	0.0215		86.2	50.3	M
51 11ClFOS										
631.00 > 451.00	5.375	5.363	0.012	1.188	131623	0.0200		85.0	838	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.448	5.443	0.005	1.309	10219224	12.3		98.5	1533	
53 N-EtFOSE-M										
630.00 > 59.00	5.459	5.456	0.003	1.002	16882	0.0192		77.0	10.1	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.469	5.471	-0.002	1.314	2258068	2.30		92.0	443	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										M
526.00 > 169.00	5.480	5.480	0.0	1.002	21111	0.0221		88.3	46.9	M
D 56 13C2 PFDoA										
615.00 > 570.00	5.530	5.521	0.009	1.329	12301937	3.29		132	9653	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.530	5.523	0.007	1.000	97159	0.0193	Target=9.12	77.2	44.7	
613.00 > 169.00	5.530	5.523	0.007	1.000	16850		5.77(4.56-13.69)	77.2	35.9	
58 10:2 FTS										
627.00 > 607.00	5.555	5.541	0.014	1.132	67089	0.0230		95.6	515	
59 PFDoS										
699.00 > 80.00	5.774	5.751	0.023	1.277	12460	0.0234	Target=0.72	96.5	21.3	
699.00 > 99.00	5.765	5.751	0.014	1.275	16227		0.77(0.36-1.07)	96.5	116	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.812	5.795	0.017	1.051	80765	0.0174	Target=6.78	69.8	49.8	
663.00 > 169.00	5.812	5.795	0.017	1.051	11535		7.00(3.39-10.17)	69.8	44.4	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.053	6.038	0.015	1.454	8038301	2.61		104	8232	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.063	6.041	0.022	1.002	6156	0.0227	Target=0.85	90.7	50.6	
713.00 > 219.00	6.042	6.041	0.001	0.998	7352		0.84(0.43-1.28)	90.7	64.1	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.530	6.505	0.025	1.569	5632241	2.50		99.9	7053	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.530	6.507	0.023	1.000	98927	0.0262	Target=10.21	105	98.0	
813.00 > 169.00	6.523	6.507	0.016	0.999	8757		11.30(5.11-15.32)	105	80.9	
65 Perfluorooctadecanoic acid										M
913.00 > 869.00	7.047	7.009	0.038	1.079	29478	0.0198	Target=12.45	79.2	46.6	a
913.00 > 169.00	7.047	7.009	0.038	1.079	2482		11.88(6.22-18.67)	79.2	50.3	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00021 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:42:18 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d

Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18

Lims ID: IC STD 1

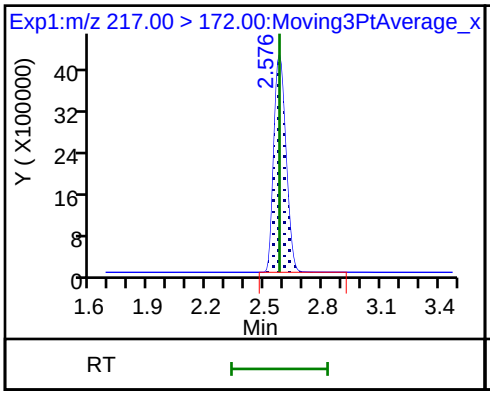
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2

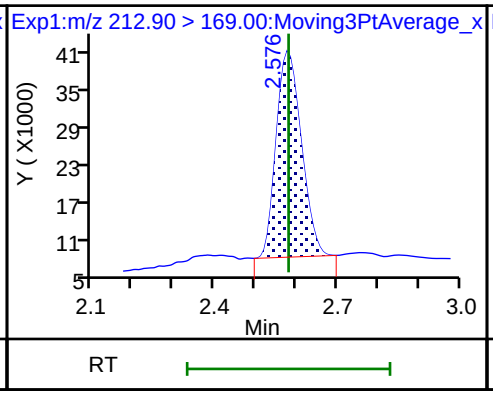
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

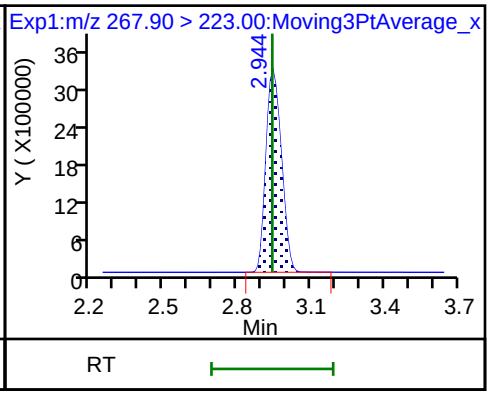
D 1 13C4 PFBA



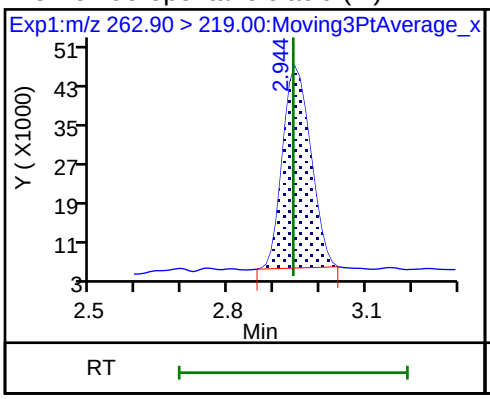
2 Perfluorobutanoic acid



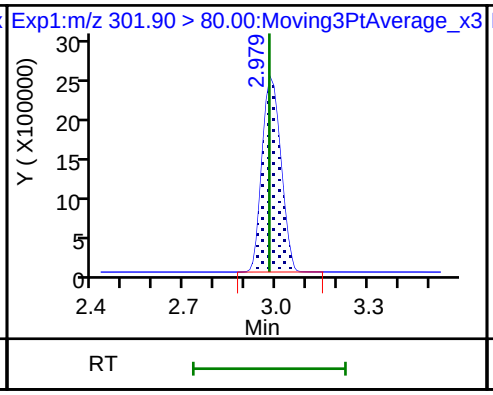
D 4 13C5 PFPeA



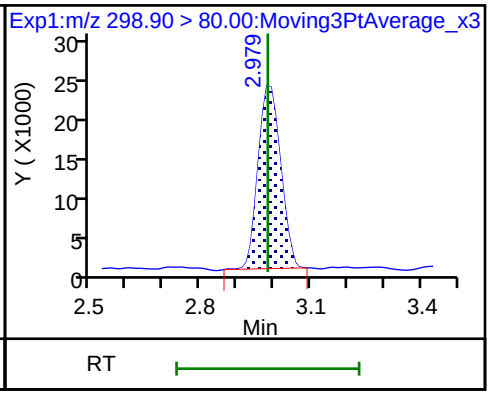
5 Perfluoropentanoic acid (M)



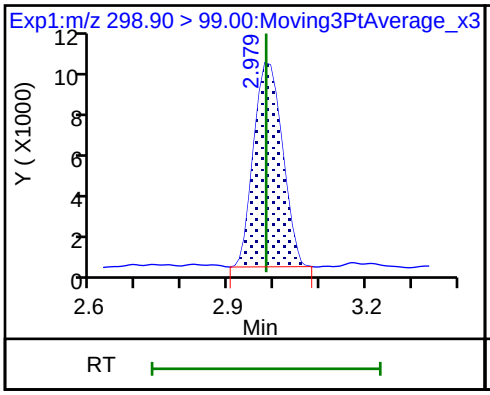
D 9 13C3 PFBS



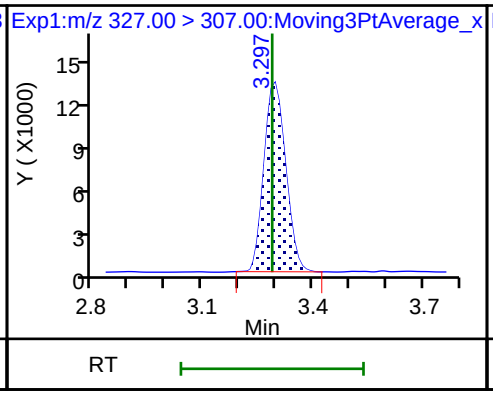
6 Perfluorobutanesulfonic acid



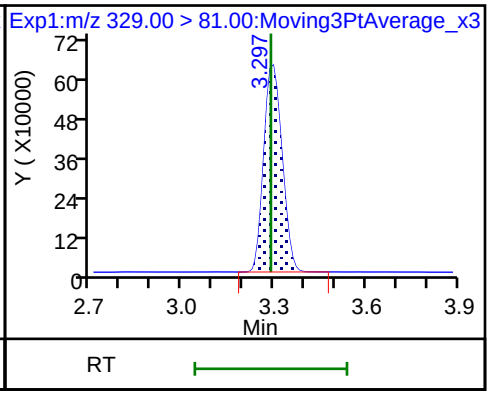
6 Perfluorobutanesulfonic acid



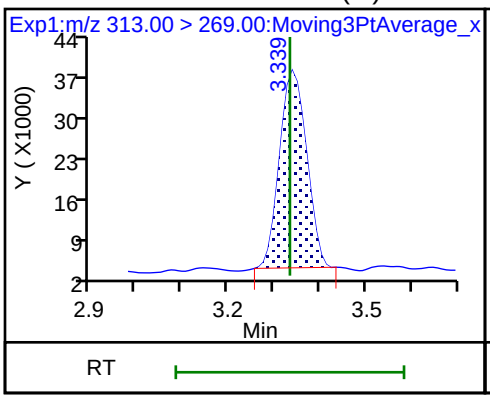
8 4:2 FTS



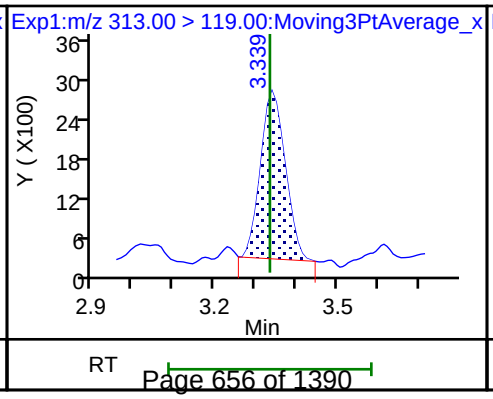
D 7 M2-4:2 FTS



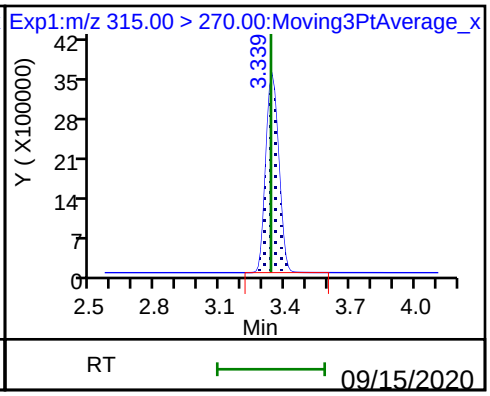
10 Perfluorohexanoic acid (M)



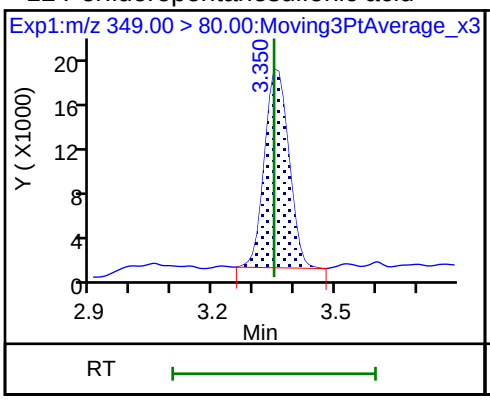
10 Perfluorohexanoic acid



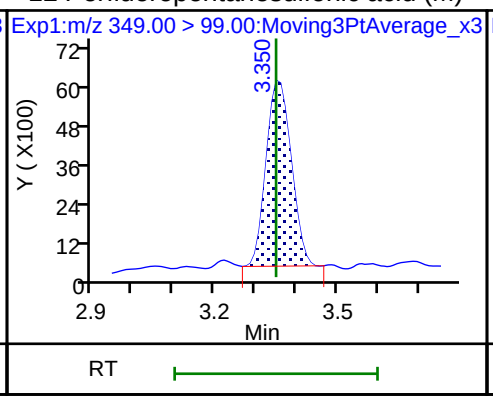
D 11 13C2 PFHxA



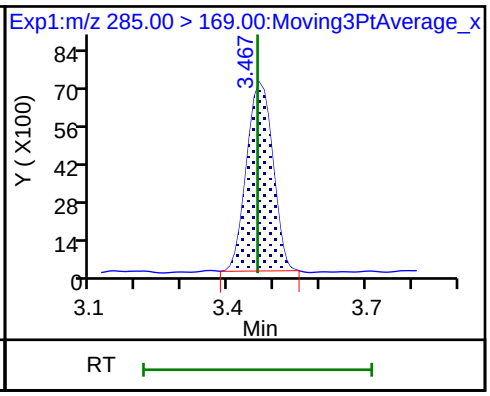
12 Perfluoropentanesulfonic acid



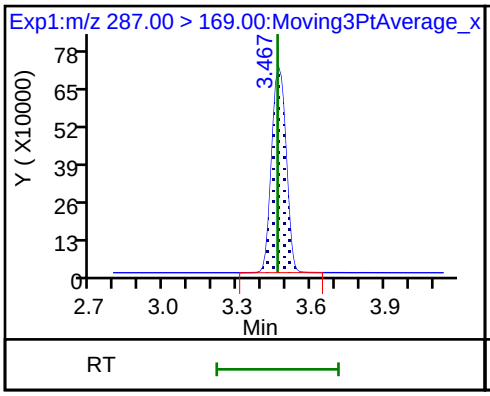
12 Perfluoropentanesulfonic acid (M)



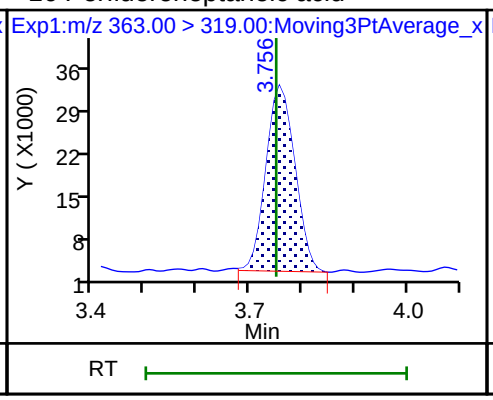
13 HPFO-DA



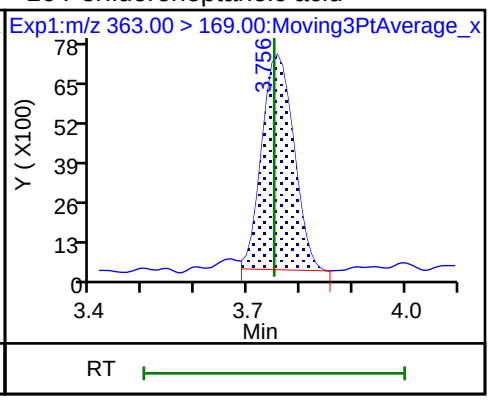
D 14 13C3 HFPO-DA



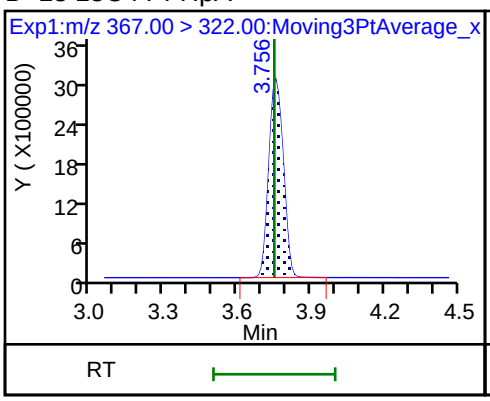
16 Perfluoroheptanoic acid



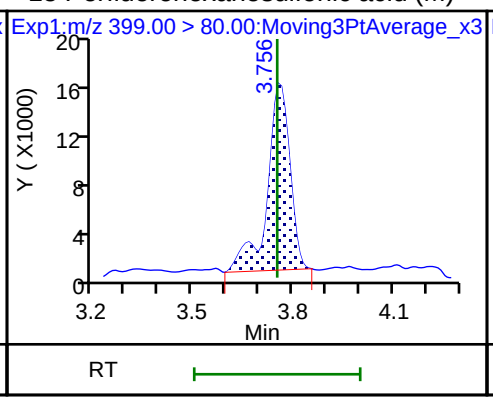
16 Perfluoroheptanoic acid



D 18 13C4 PFHpA



15 Perfluorohexanesulfonic acid (M)



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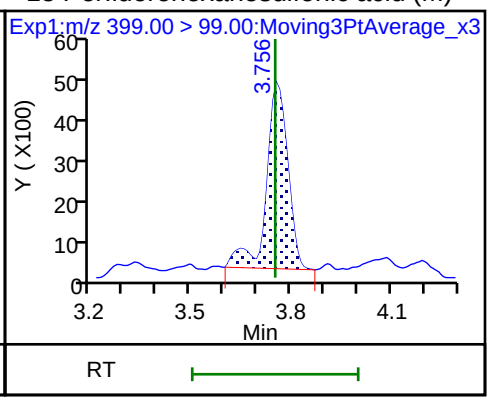
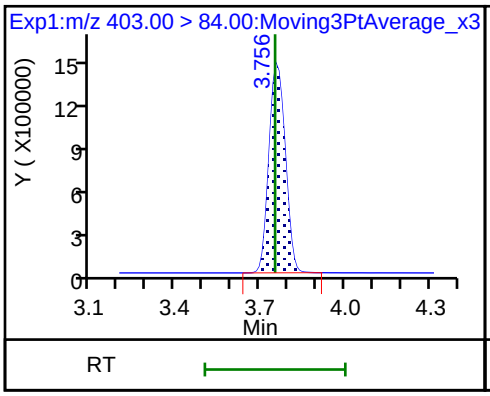
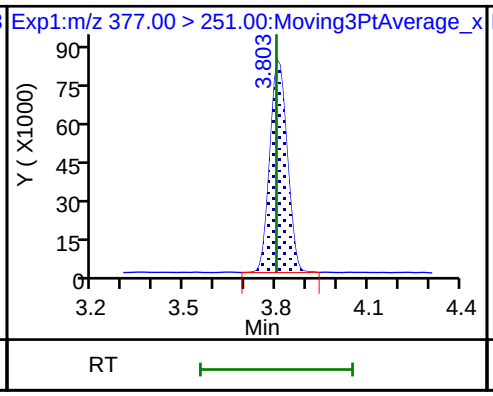


D 17 18O2 PFHxS



19 DONA



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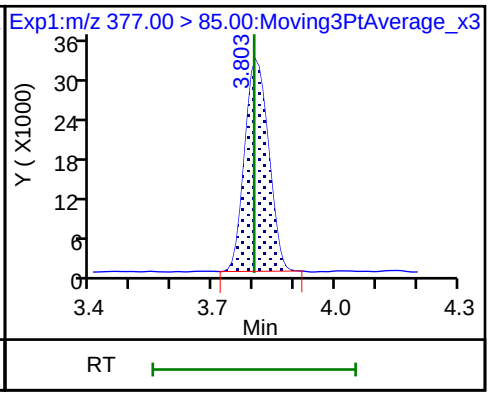
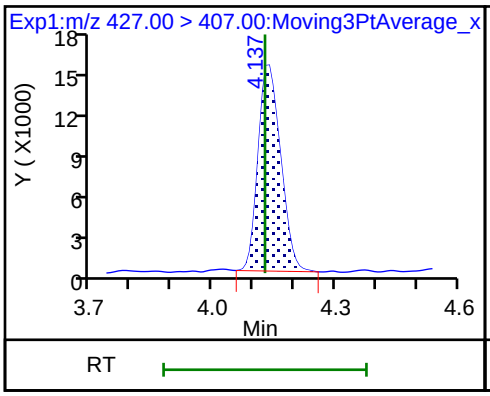
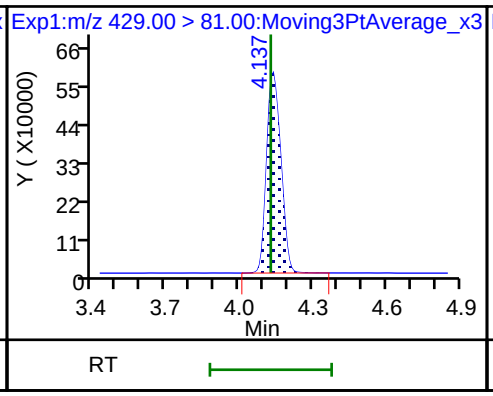


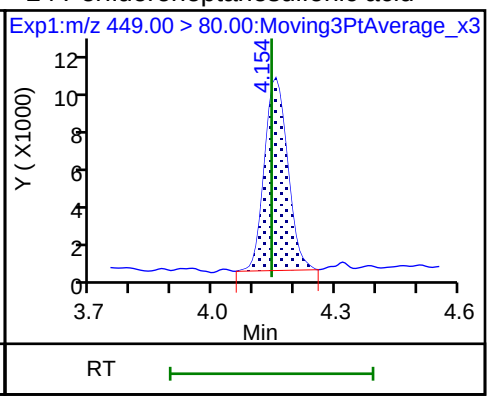
21 6:2 FTS



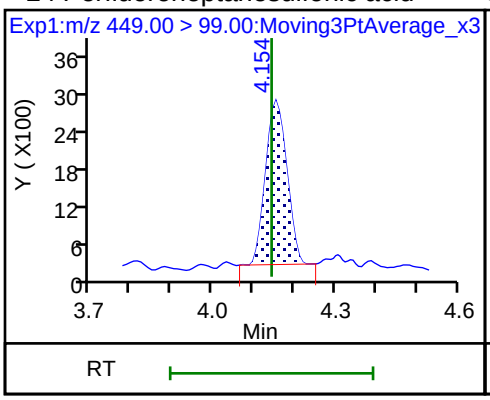
D 20 M2-6:2 FTS



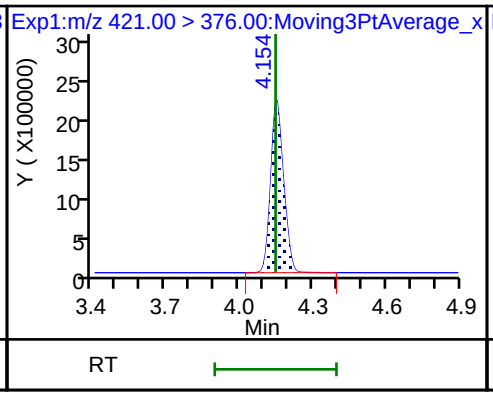
24 Perfluoroheptanesulfonic acid



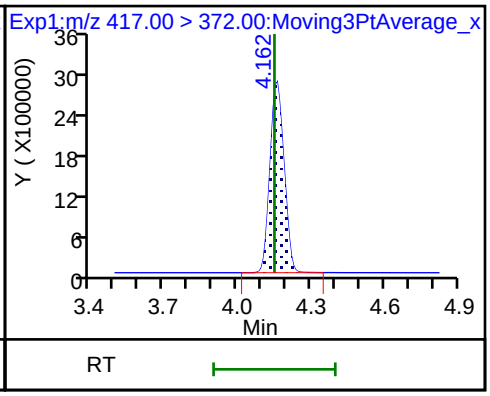
24 Perfluoroheptanesulfonic acid



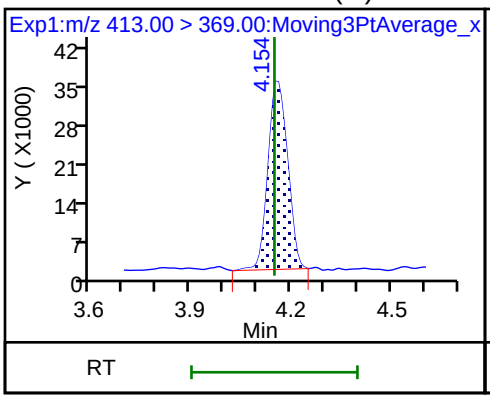
$ 26 13C8 PFOA



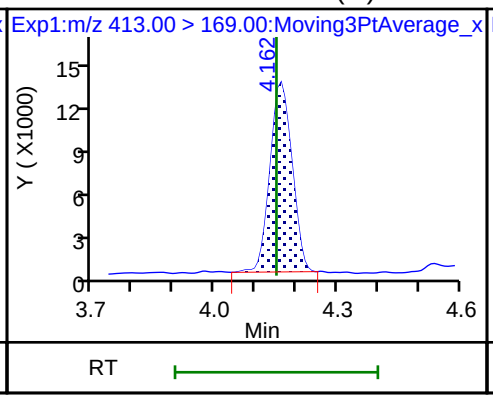
D 25 13C4 PFOA



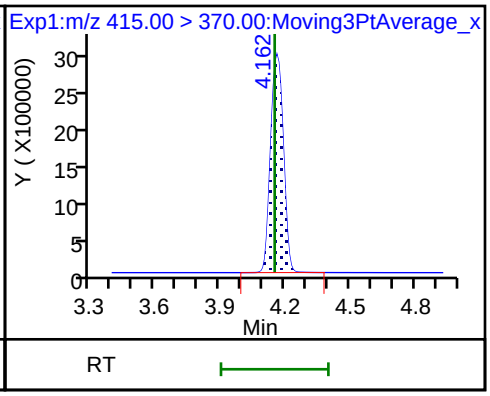
22 Perfluorooctanoic acid (M)



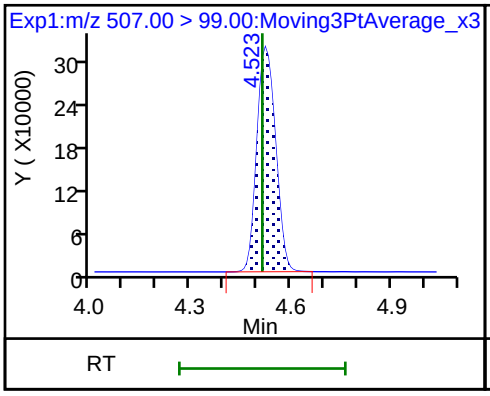
22 Perfluorooctanoic acid (M)



* 23 13C2 PFOA



$ 28 13C8 PFOS



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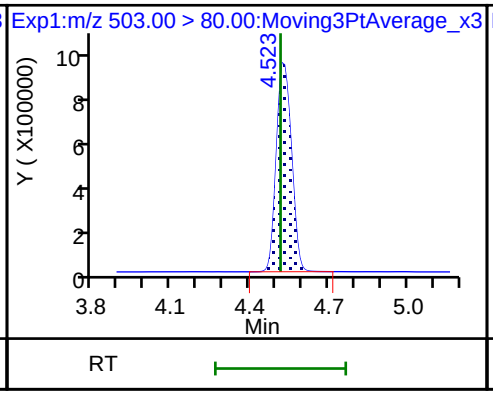
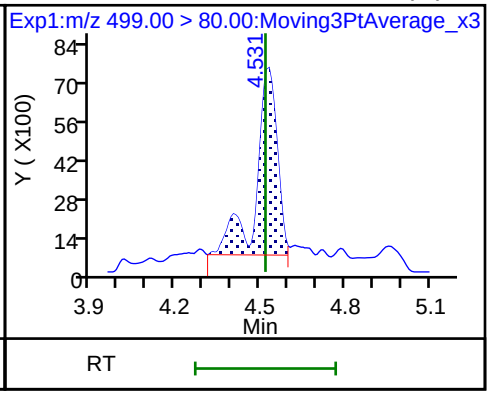
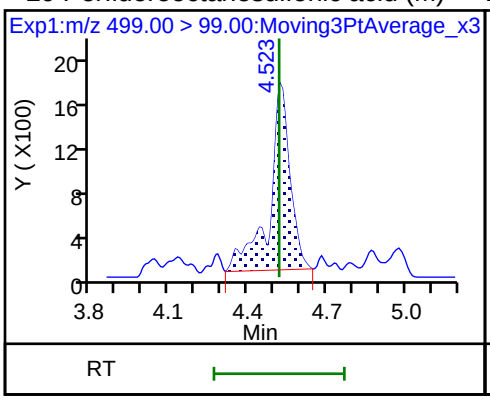


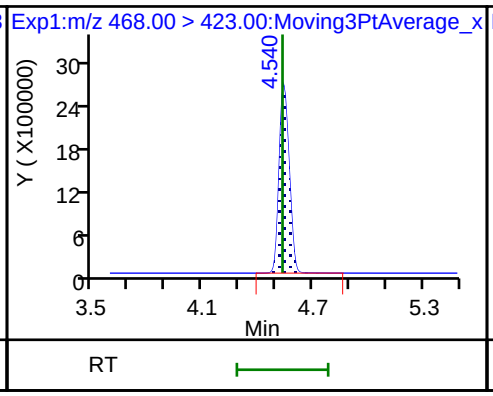
29 Perfluorooctanesulfonic acid (M)



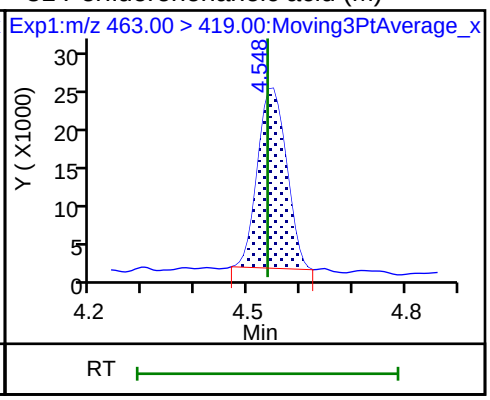
29 Perfluorooctanesulfonic acid (M)



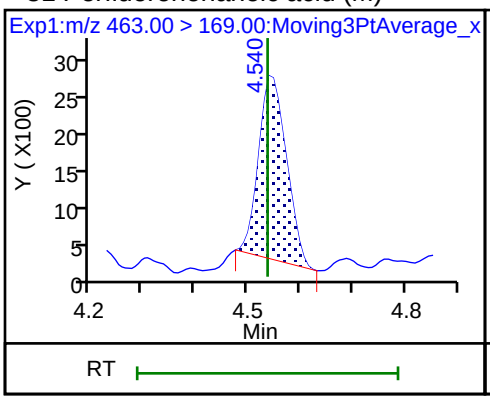
D 30 13C5 PFNA



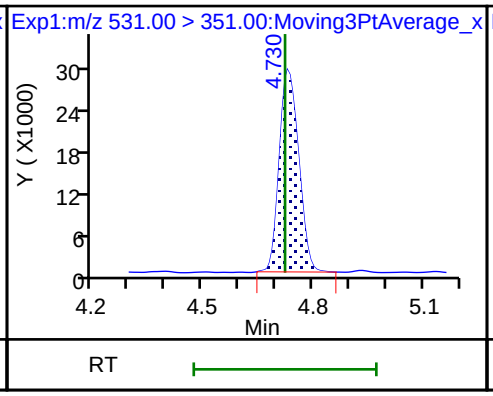
31 Perfluorononanoic acid (M)



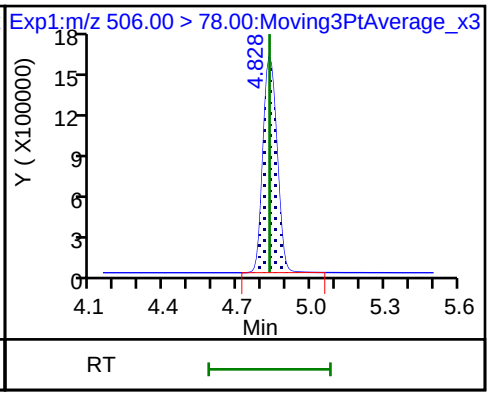
31 Perfluorononanoic acid (M)



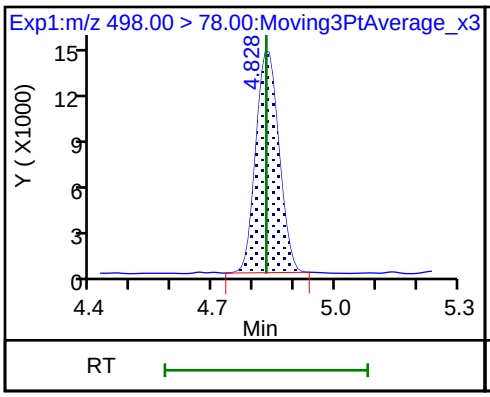
32 9ClFOS



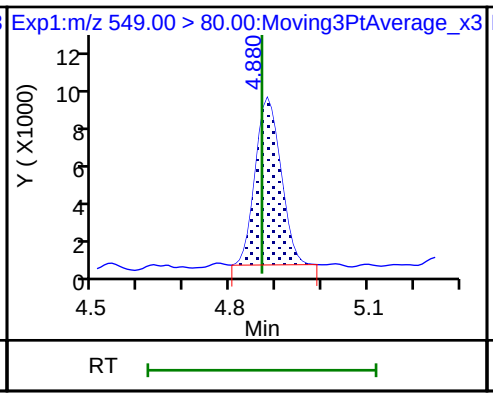
D 33 13C8 FOSA



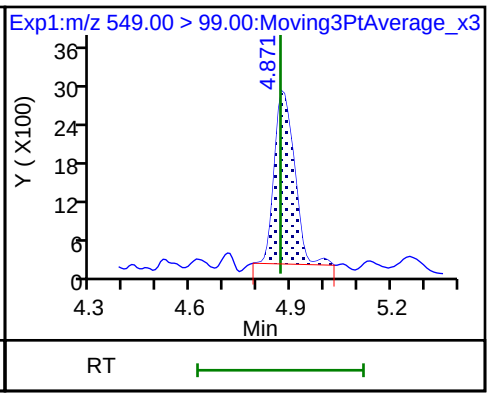
34 Perfluorooctanesulfonamide



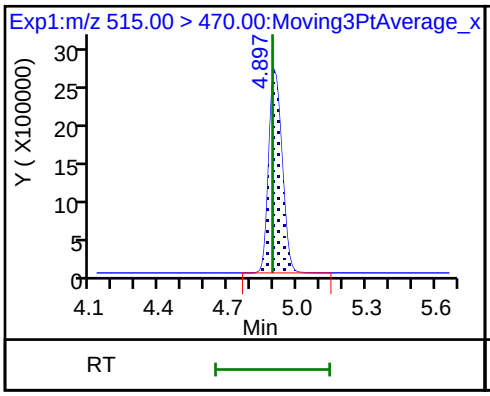
35 Perfluorononanesulfonic acid



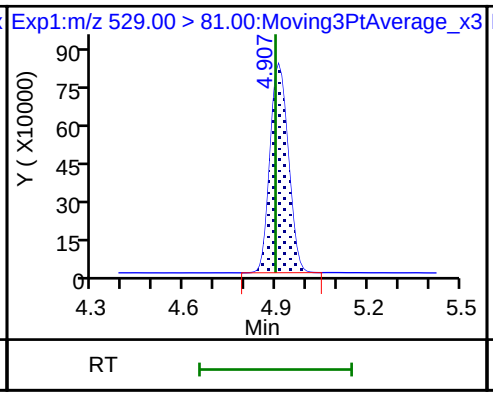
35 Perfluorononanesulfonic acid



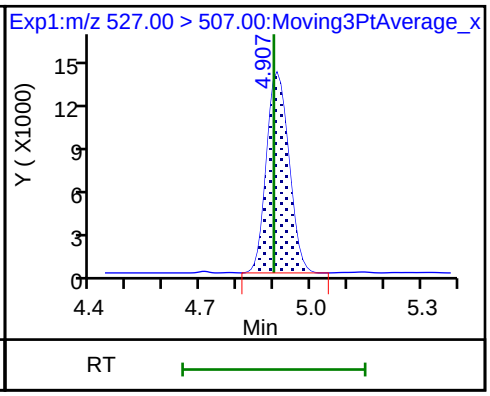
D 39 13C2 PFDA



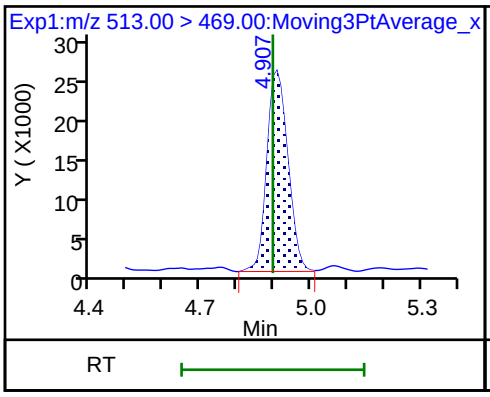
D 38 M2-8:2 FTS



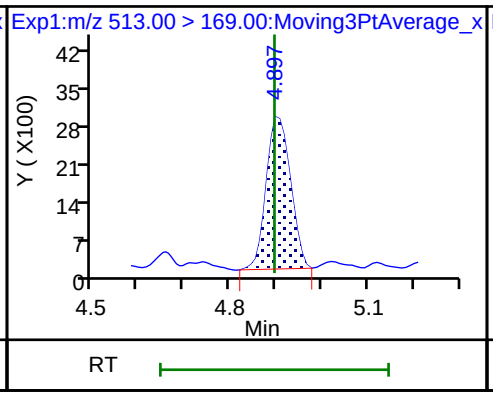
36 8:2 FTS



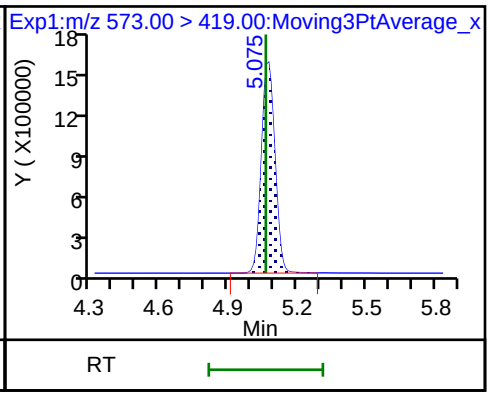
37 Perfluorodecanoic acid



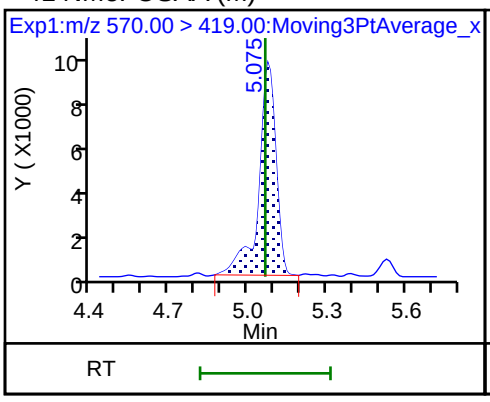
37 Perfluorodecanoic acid



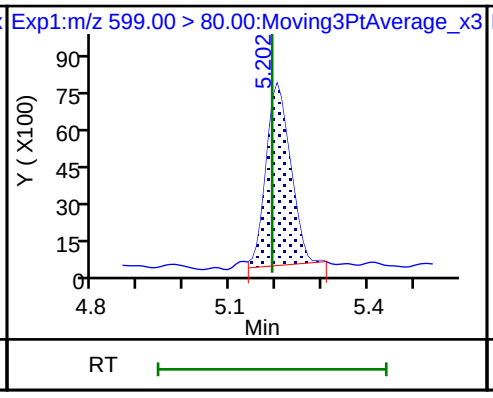
D 40 d3-NMeFOSAA



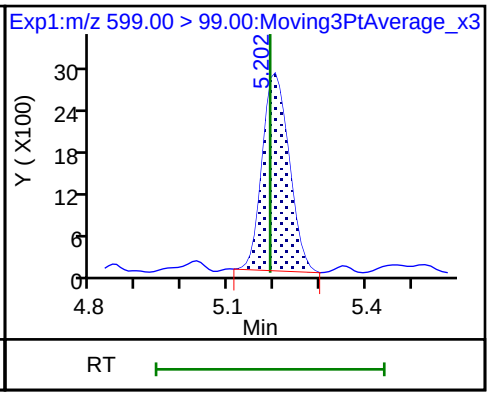
41 NMeFOSAA (M)



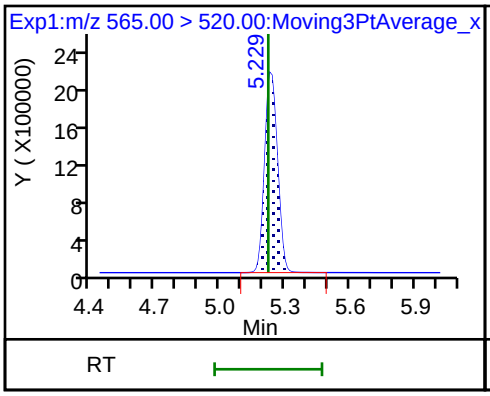
42 Perfluorodecanesulfonic acid



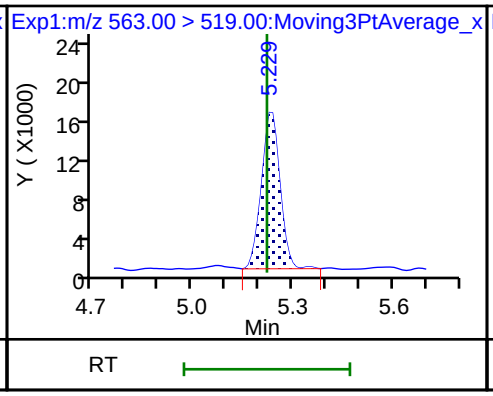
42 Perfluorodecanesulfonic acid



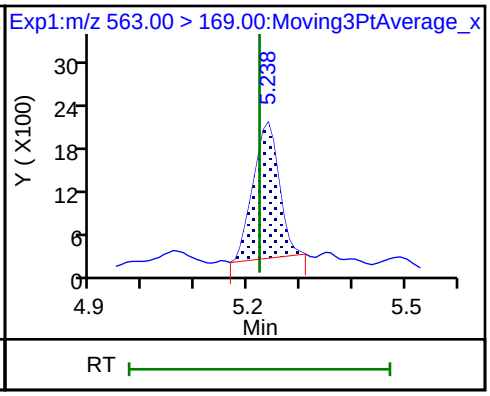
D 43 13C2 PFUnA



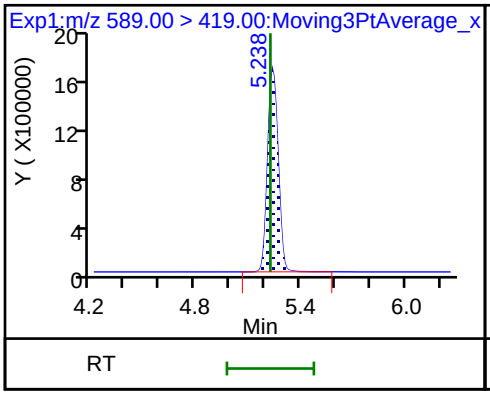
45 Perfluoroundecanoic acid



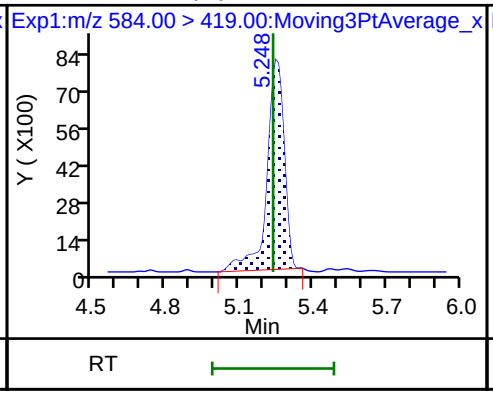
45 Perfluoroundecanoic acid



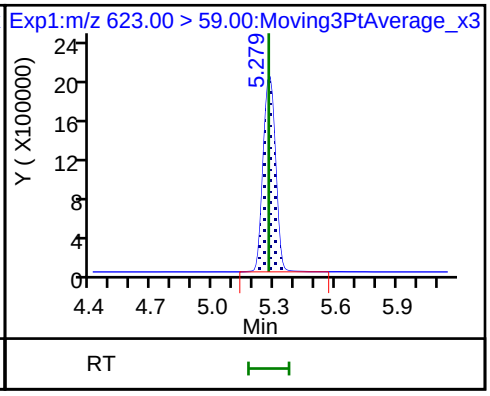
D 44 d5-NEtFOSAA



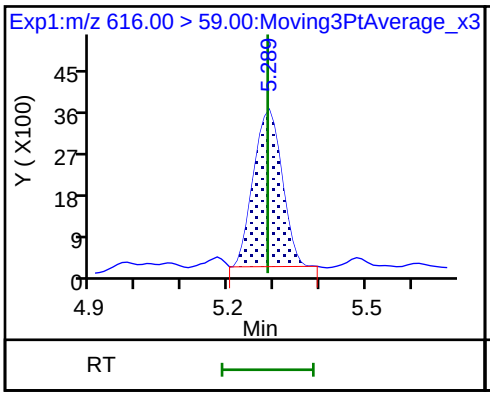
46 NEtFOSA (M)



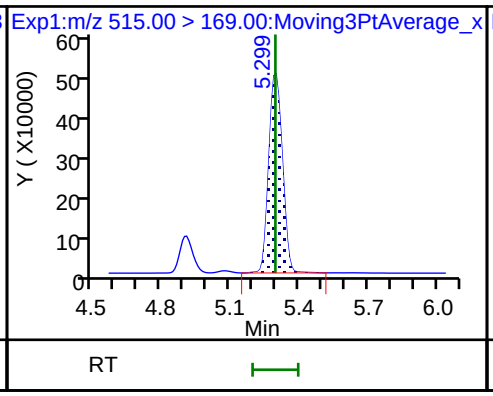
D 47 d7-N-MeFOSE-M



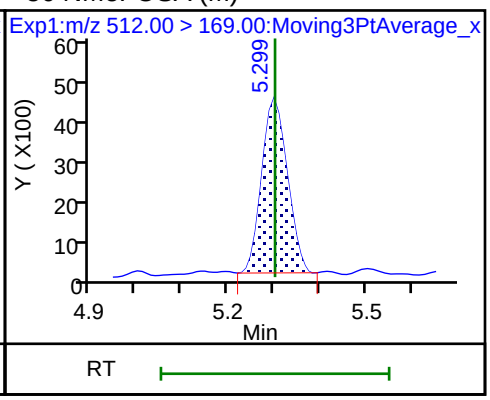
48 N-MeFOSE-M



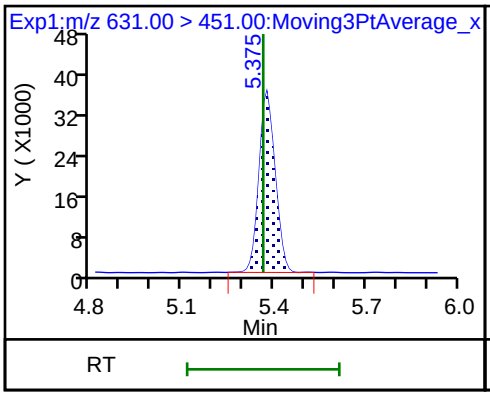
D 49 d-N-MeFOSA-M



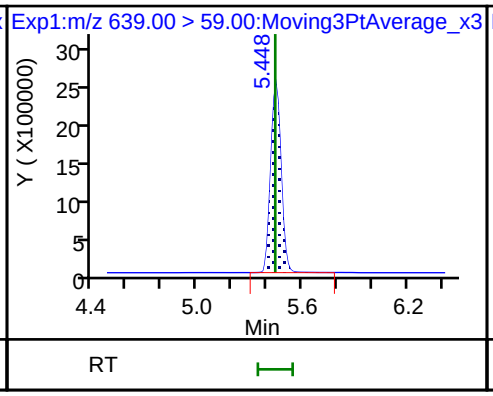
50 NMeFOSA (M)



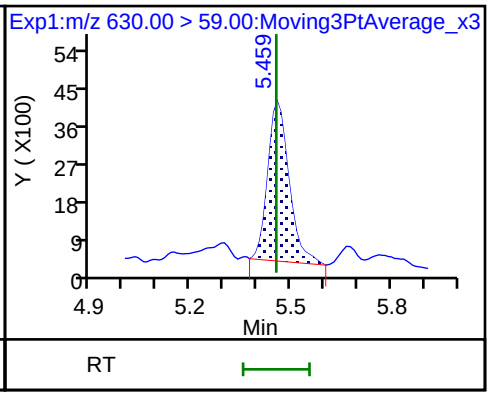
51 11ClFOS



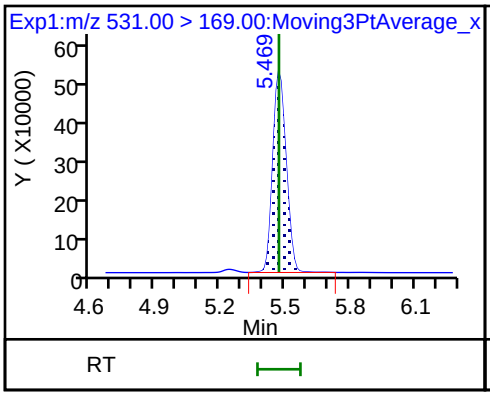
D 52 d9-N-EtFOSE-M



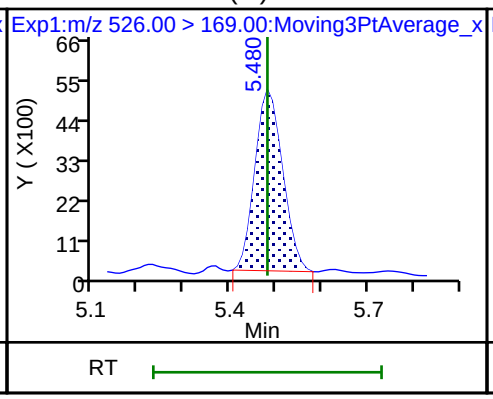
53 N-EtFOSE-M



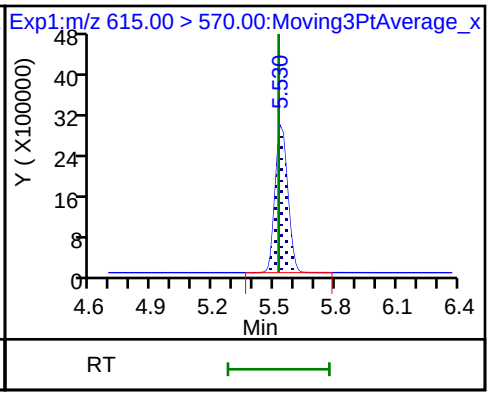
D 54 d-N-EtFOSA-M



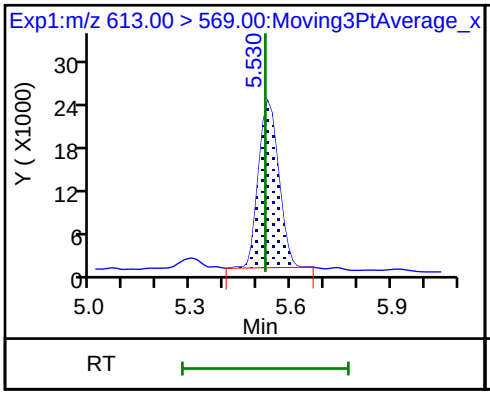
55 N-EtFOSA-M (M)



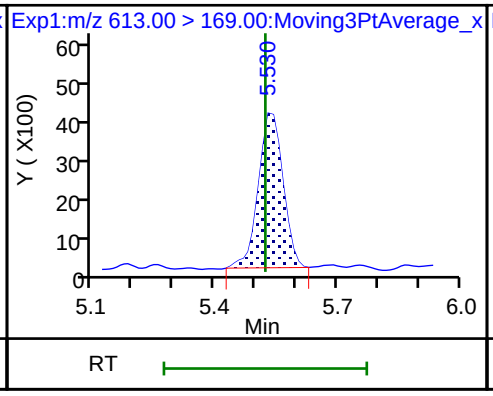
D 56 13C2 PFDoA



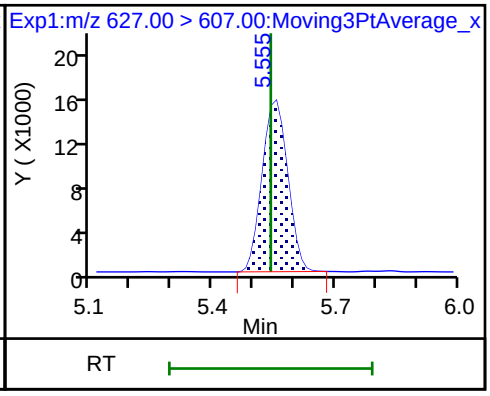
57 Perfluorododecanoic acid



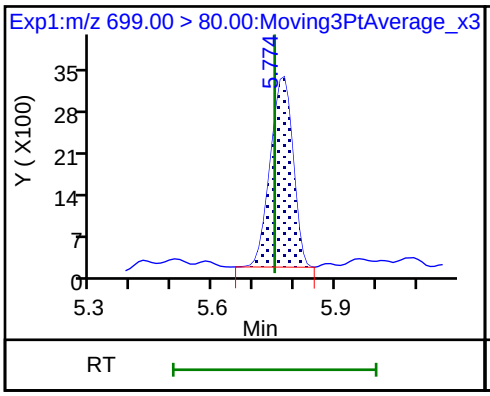
57 Perfluorododecanoic acid



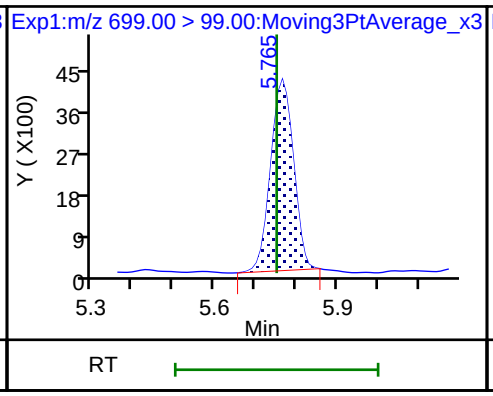
58 10:2 FTS



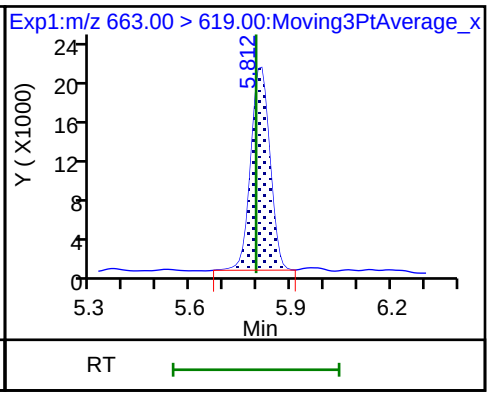
59 PFDoS



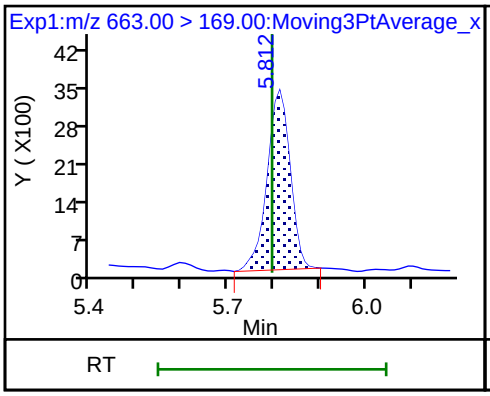
59 PFDoS



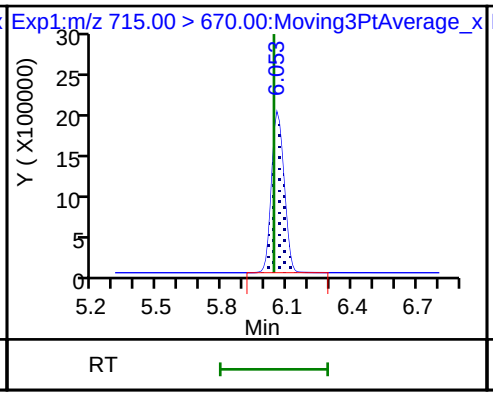
60 Perfluorotridecanoic acid



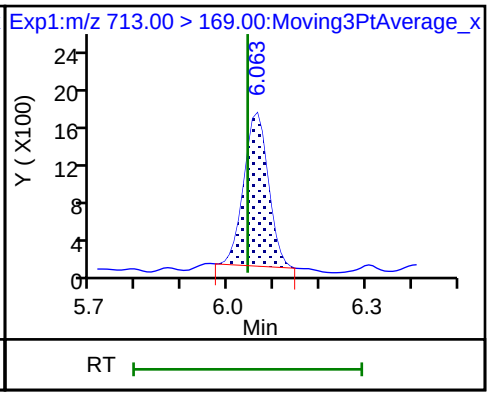
60 Perfluorotridecanoic acid



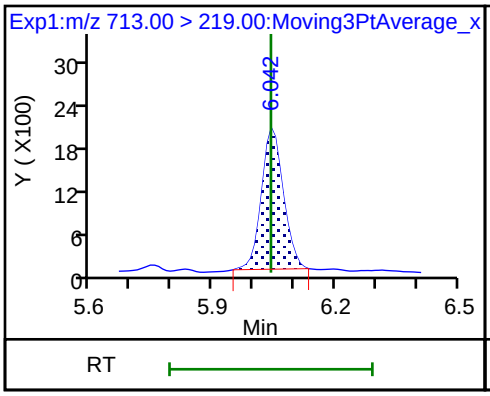
D 61 13C2 PFTeDA



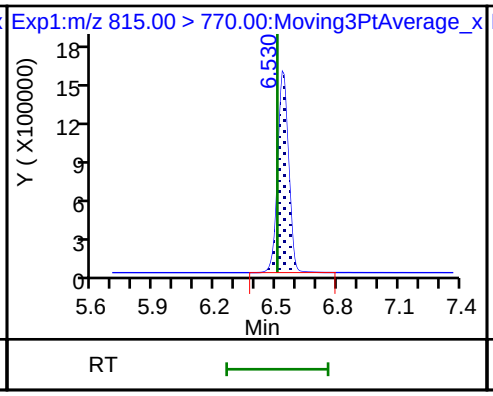
62 Perfluorotetradecanoic acid



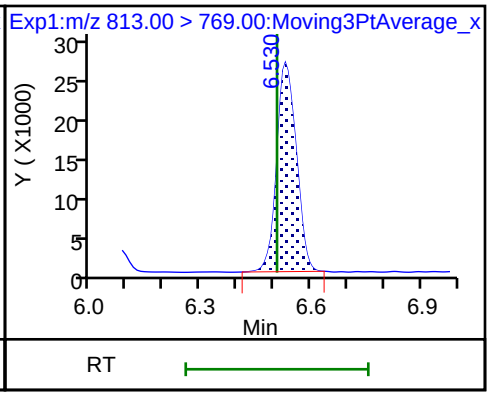
62 Perfluorotetradecanoic acid



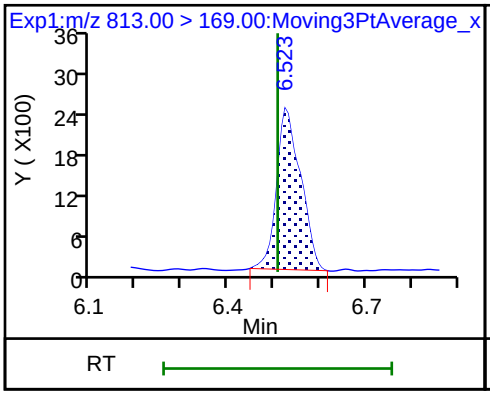
D 64 13C2 PFHxDA



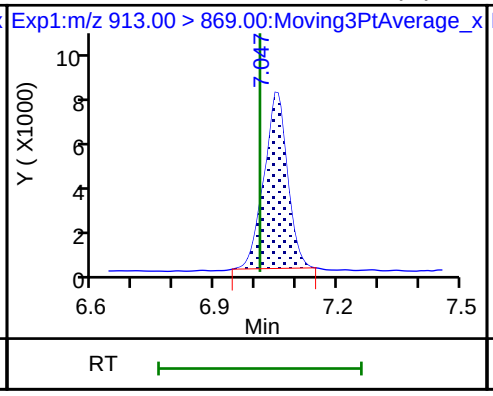
63 Perfluorohexadecanoic acid



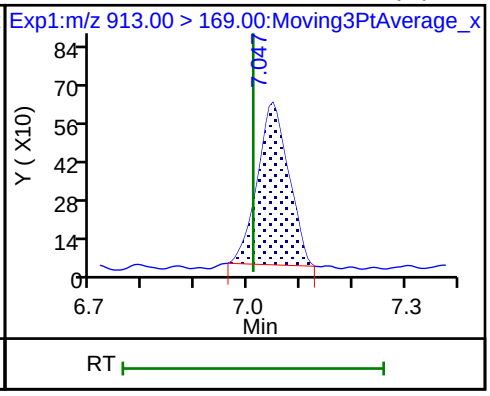
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (M)



65 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

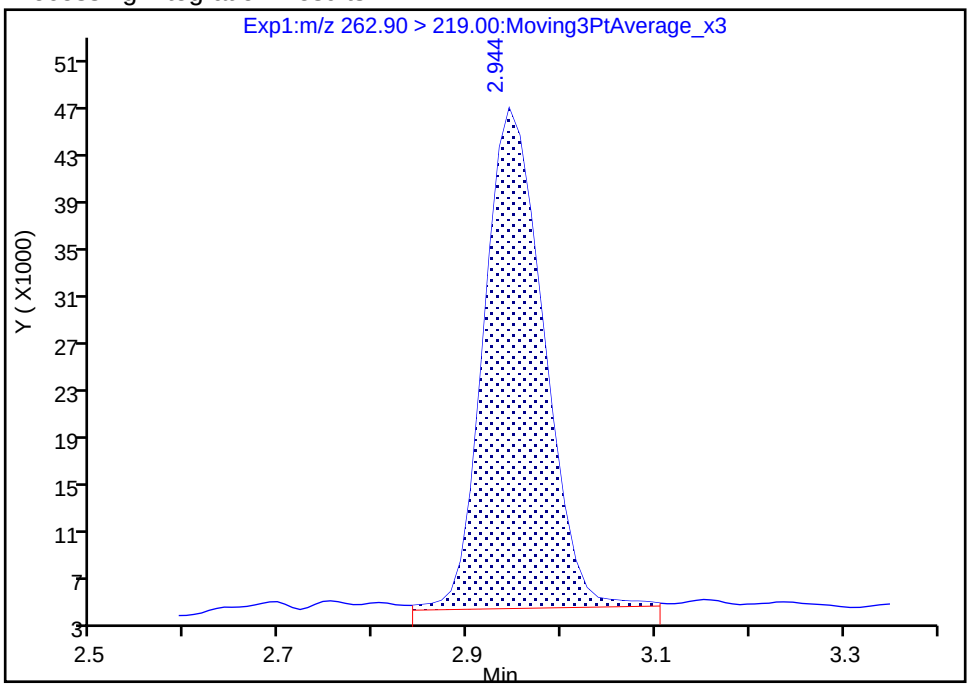
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

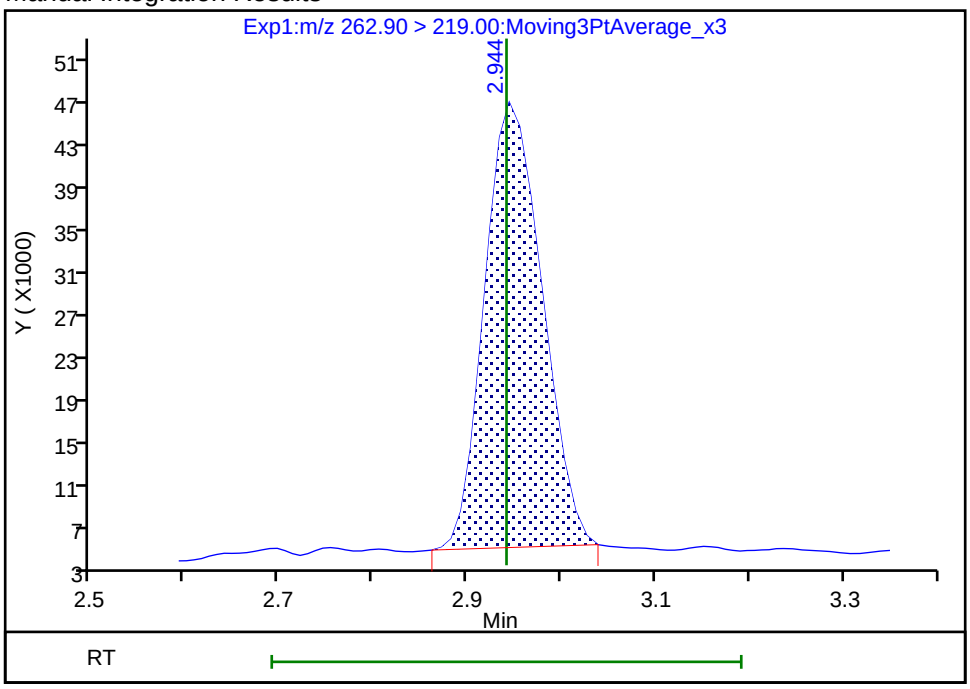
Processing Integration Results

RT: 2.94
Area: 184747
Amount: 0.030607
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 175237
Amount: 0.031023
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:42:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

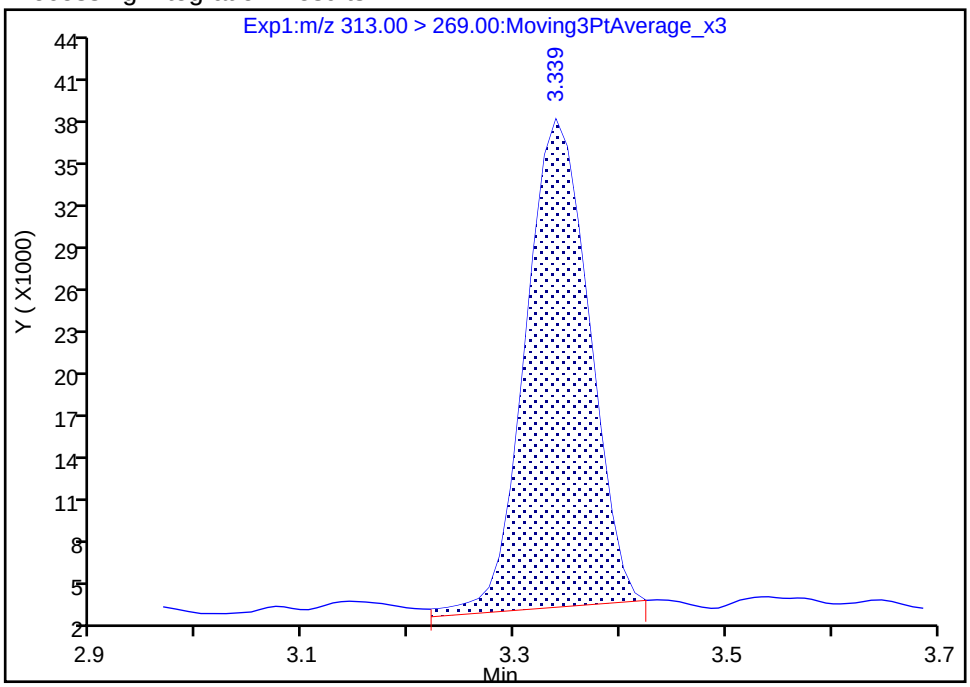
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

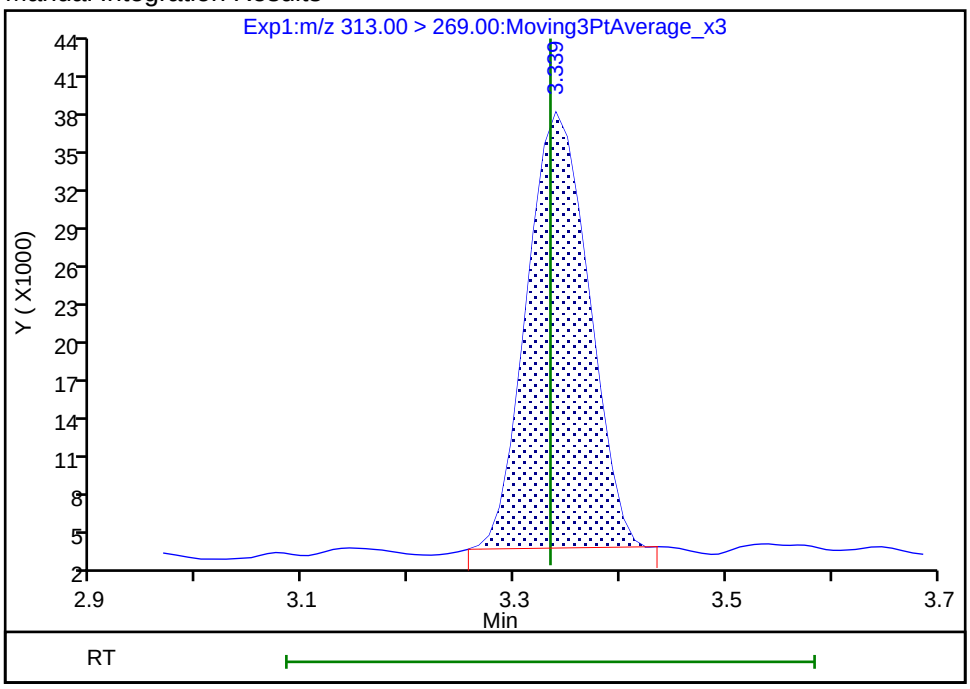
Processing Integration Results

RT: 3.34
Area: 145382
Amount: 0.025915
Amount Units: ng/ml



Manual Integration Results

RT: 3.34
Area: 139898
Amount: 0.025091
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:42:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

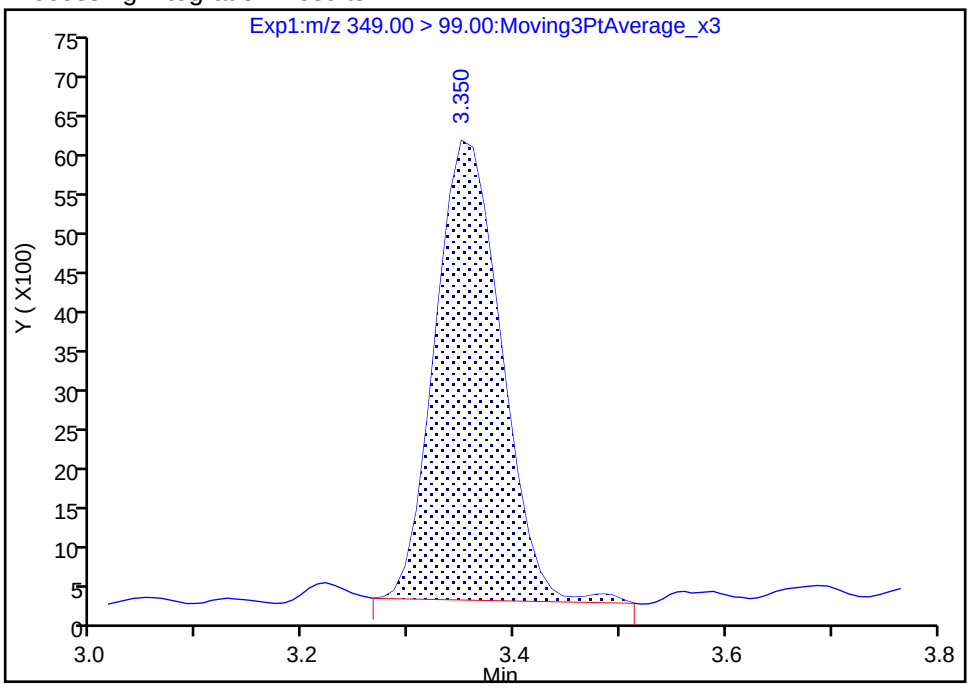
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

12 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

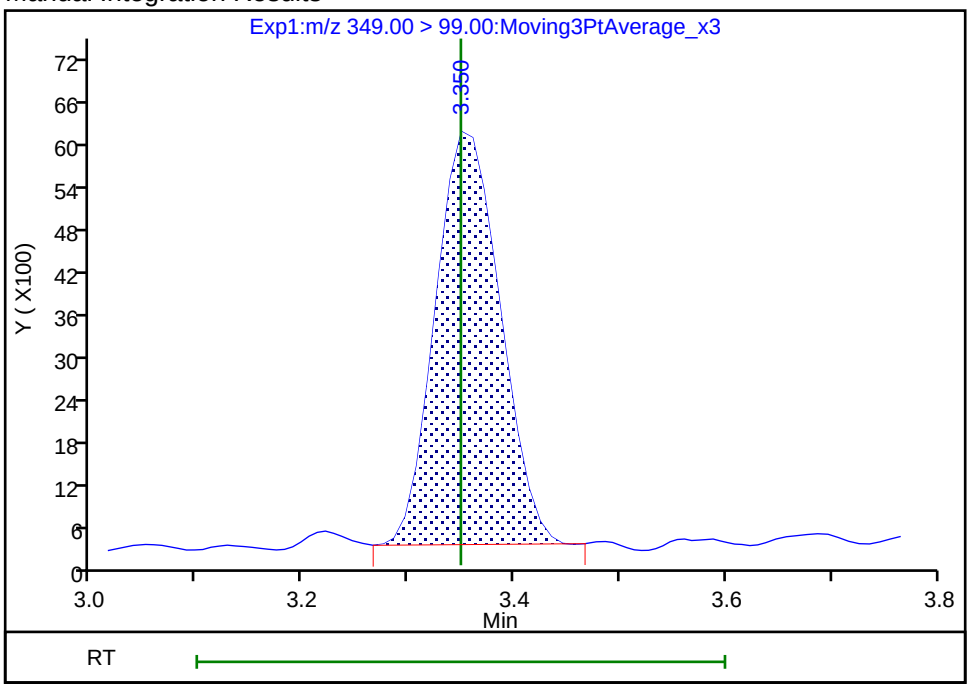
Processing Integration Results

RT: 3.35
Area: 25292
Amount: 0.020766
Amount Units: ng/ml



Manual Integration Results

RT: 3.35
Area: 24636
Amount: 0.020766
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:42:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

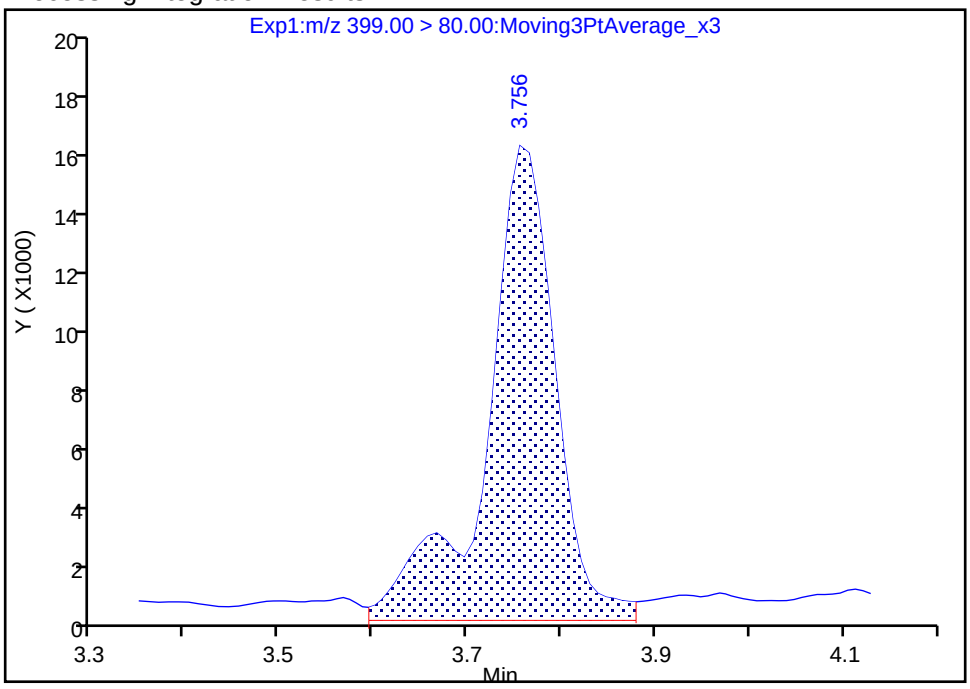
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

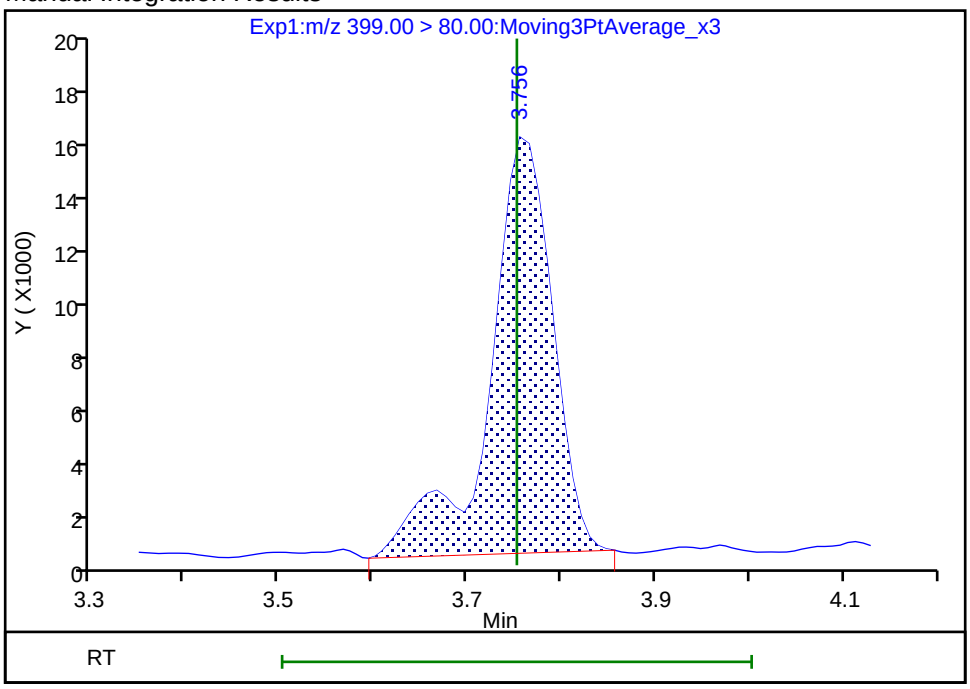
Processing Integration Results

RT: 3.76
Area: 83356
Amount: 0.029075
Amount Units: ng/ml



Manual Integration Results

RT: 3.76
Area: 73118
Amount: 0.026089
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:42:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

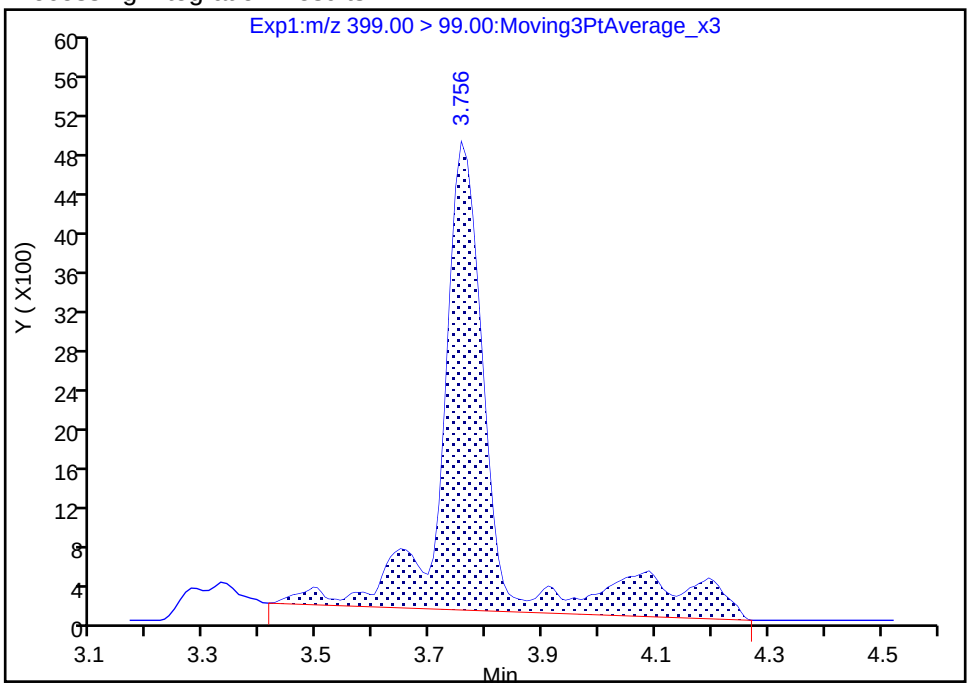
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

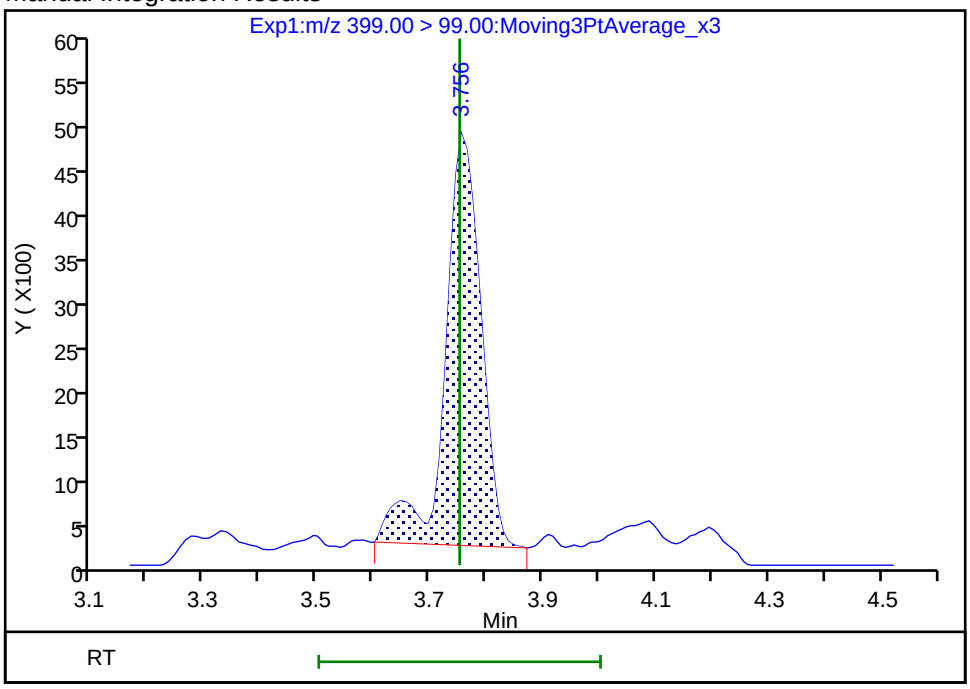
Processing Integration Results

RT: 3.76
Area: 30002
Amount: 0.029075
Amount Units: ng/ml



Manual Integration Results

RT: 3.76
Area: 20749
Amount: 0.026089
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:42:56
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

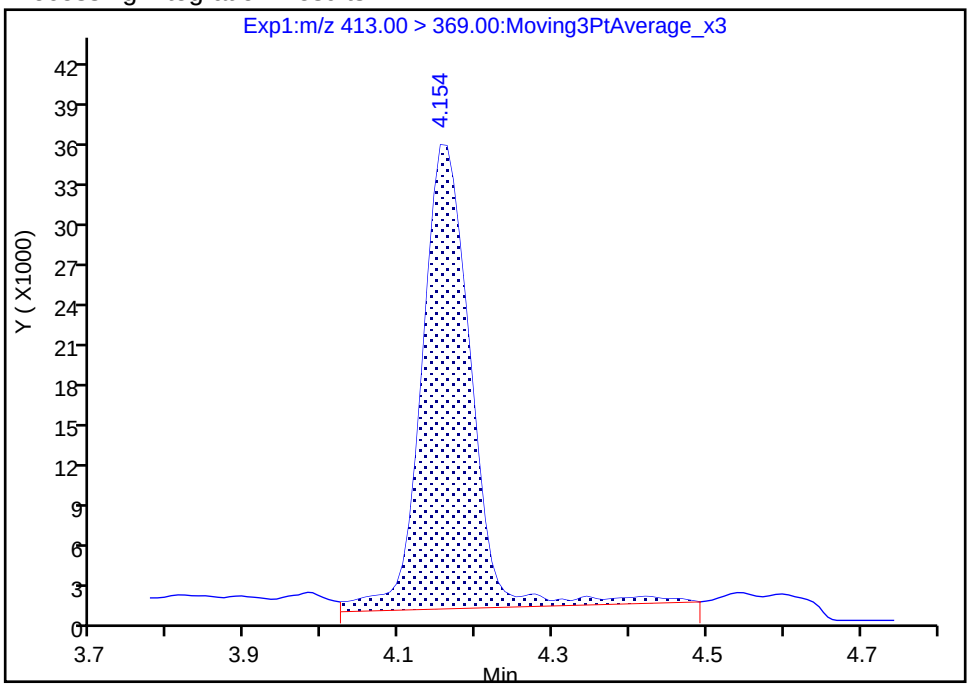
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

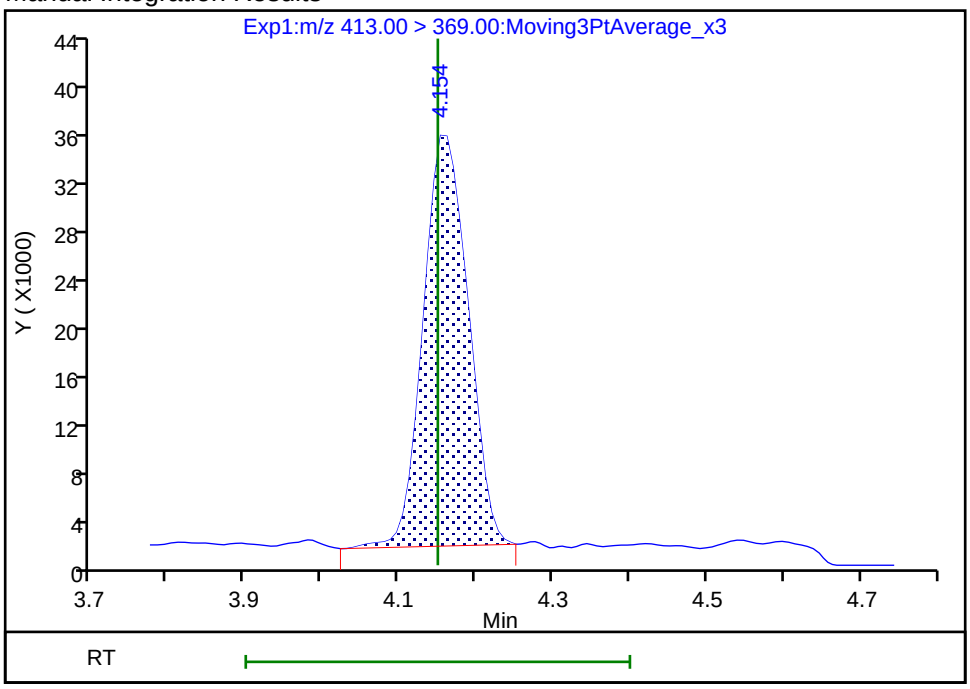
Processing Integration Results

RT: 4.15
Area: 153665
Amount: 0.031257
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 137219
Amount: 0.029817
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:43:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

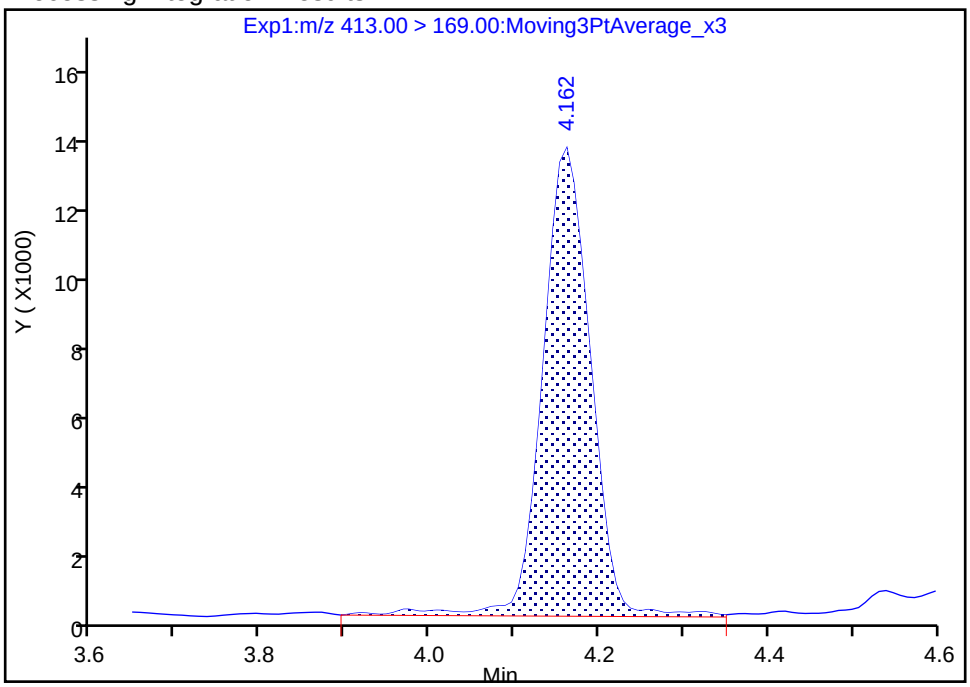
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

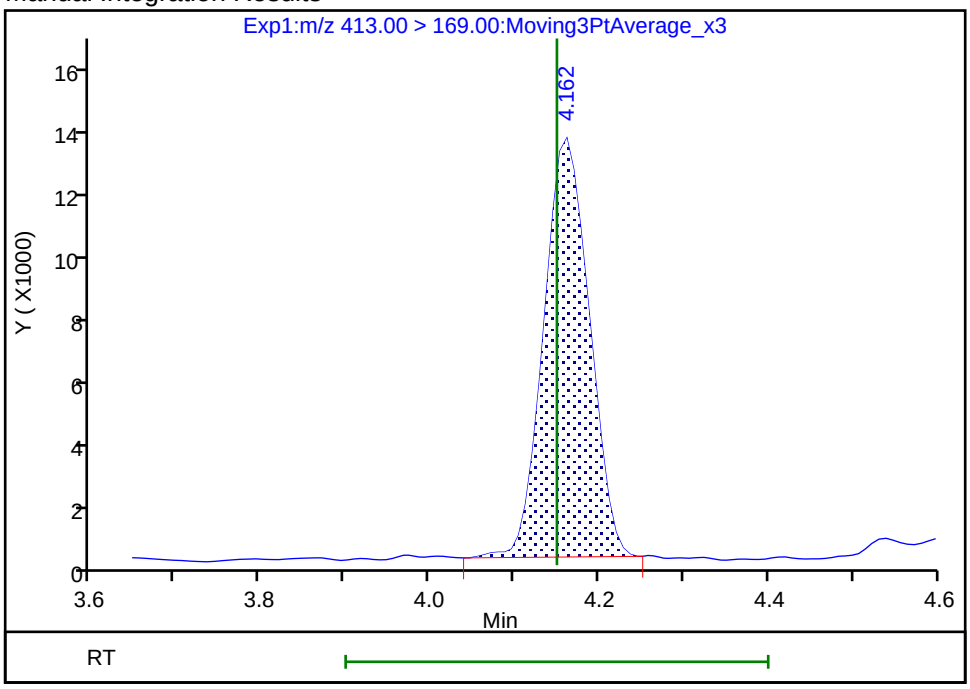
Processing Integration Results

RT: 4.16
Area: 53051
Amount: 0.031257
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 49716
Amount: 0.029817
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:43:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

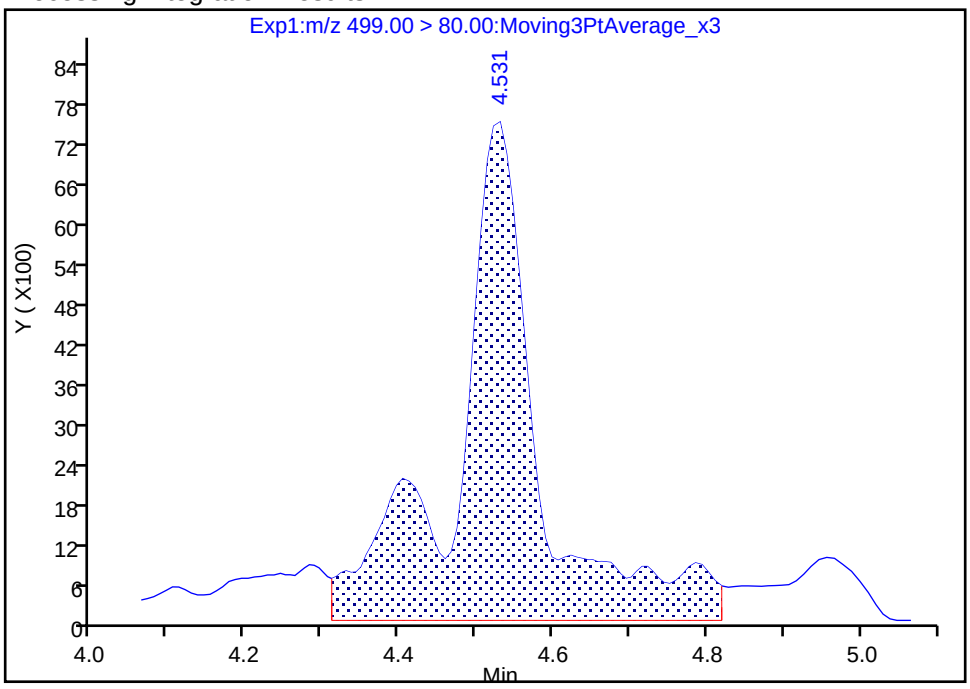
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

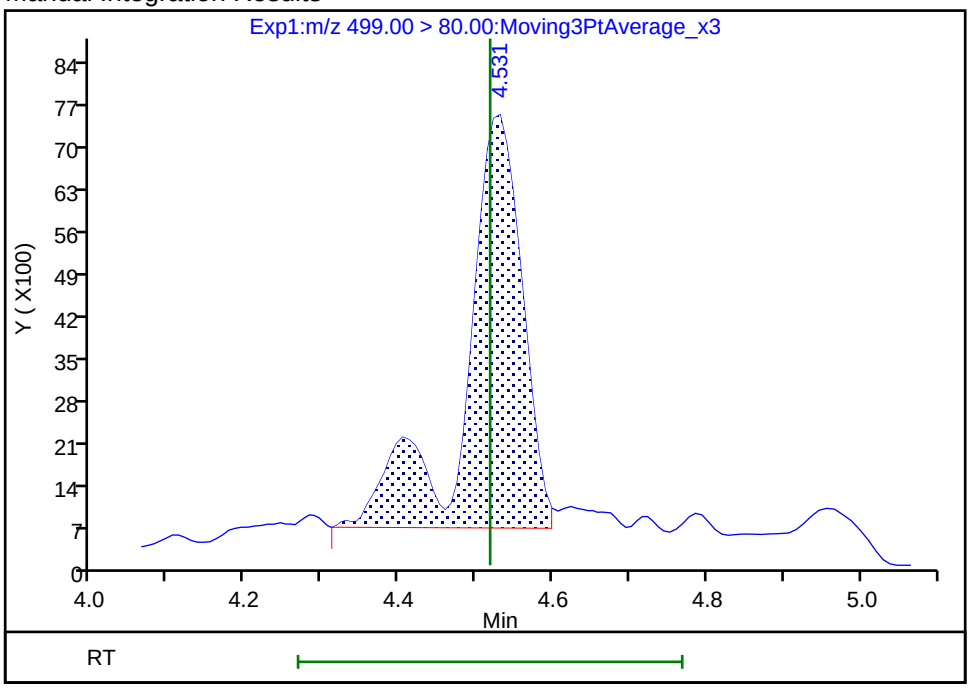
Processing Integration Results

RT: 4.53
Area: 56494
Amount: 0.031687
Amount Units: ng/ml



Manual Integration Results

RT: 4.53
Area: 35364
Amount: 0.021324
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:44:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

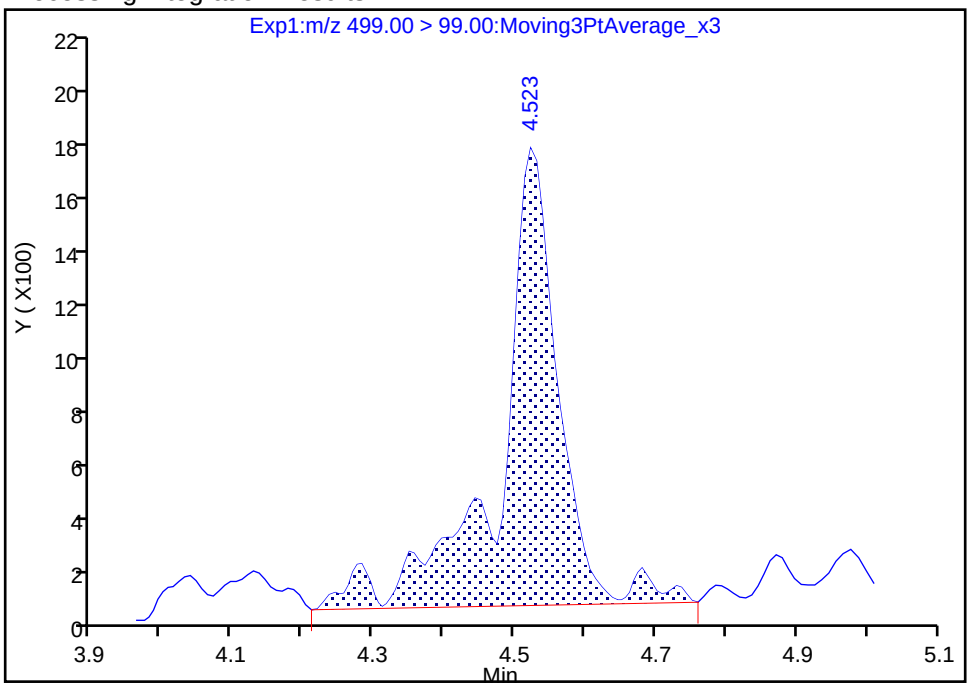
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

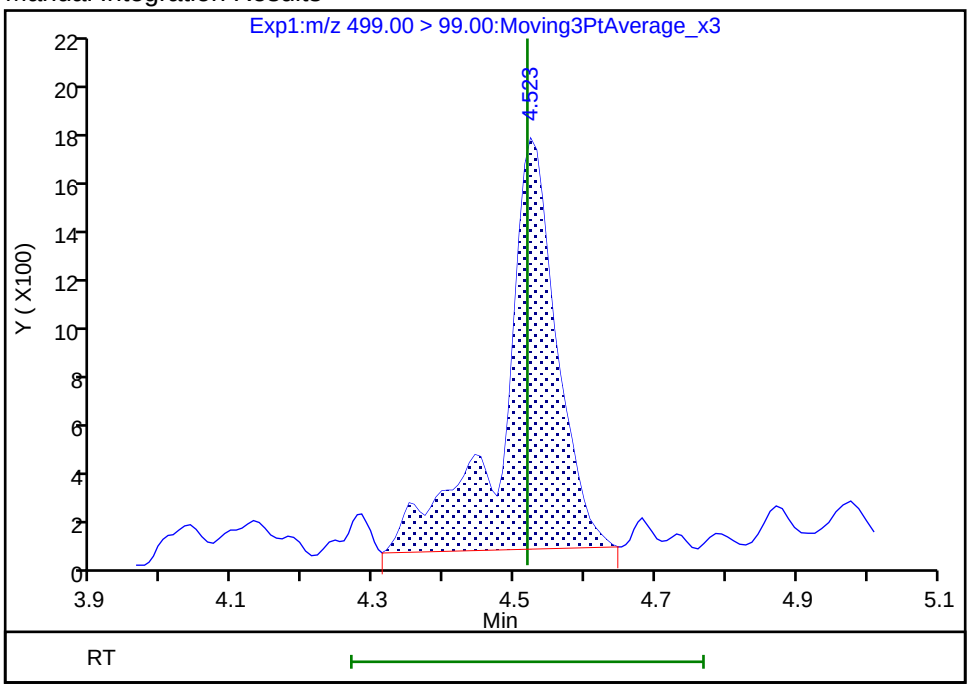
Processing Integration Results

RT: 4.52
Area: 10079
Amount: 0.031687
Amount Units: ng/ml



Manual Integration Results

RT: 4.52
Area: 9090
Amount: 0.021324
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:45:08
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

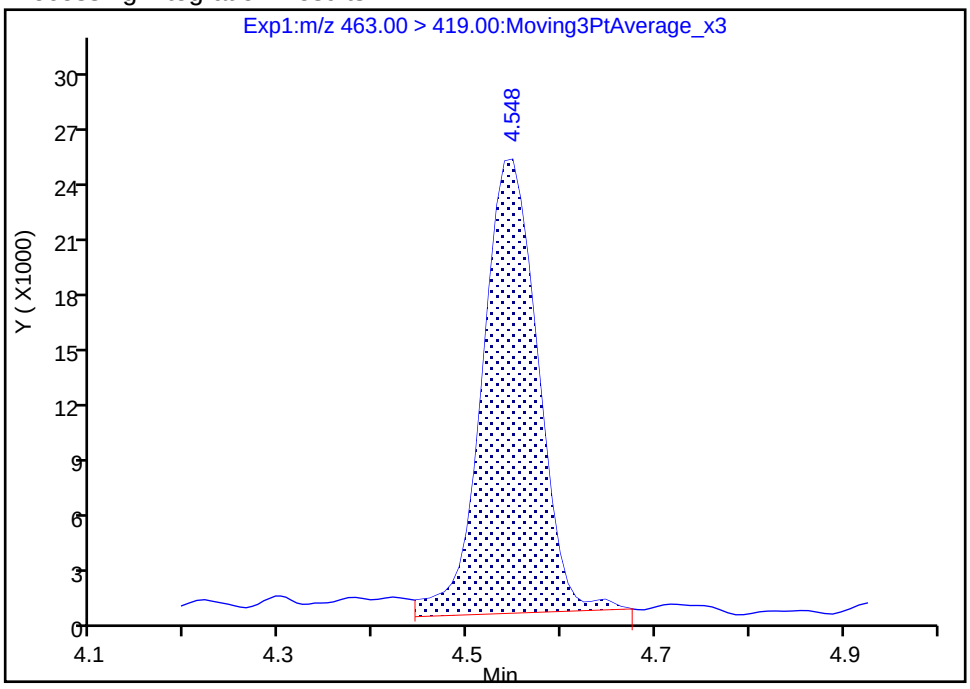
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

31 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

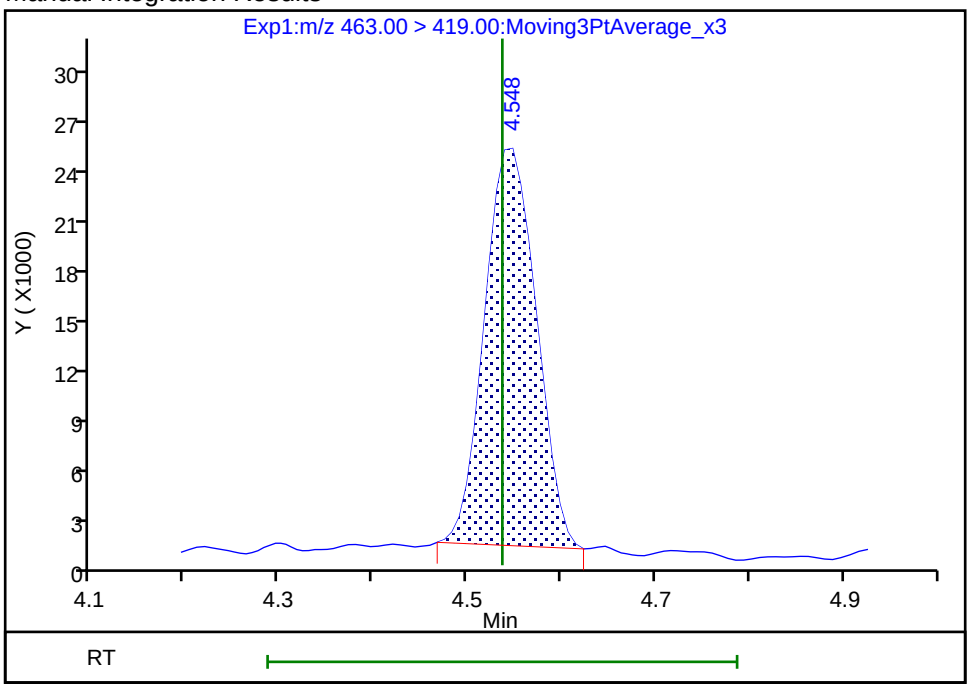
Processing Integration Results

RT: 4.55
Area: 98018
Amount: 0.025110
Amount Units: ng/ml



Manual Integration Results

RT: 4.55
Area: 88392
Amount: 0.022968
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:45:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

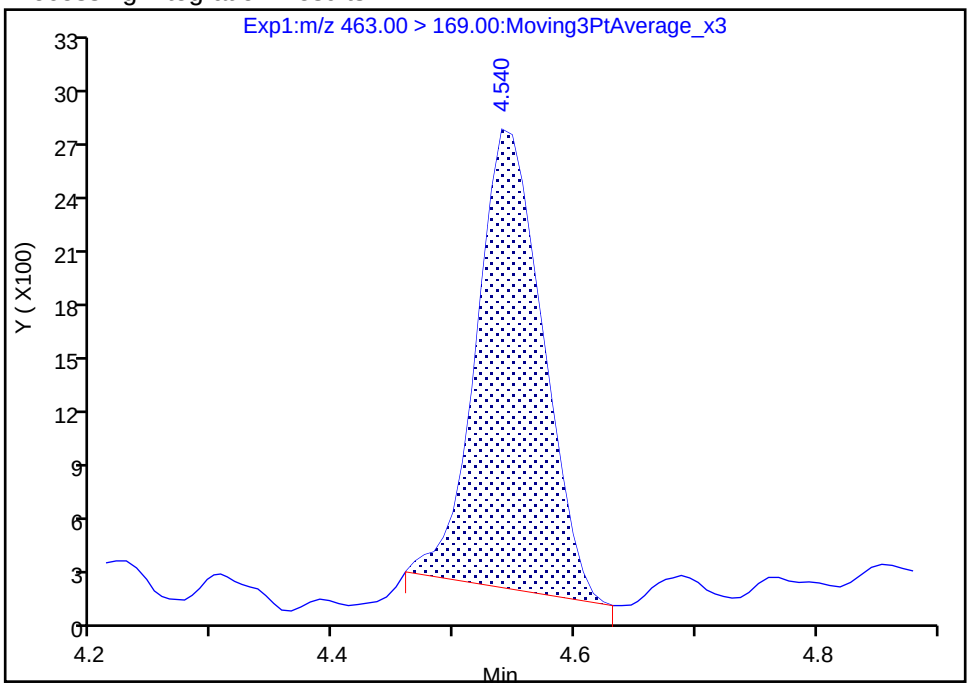
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

31 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

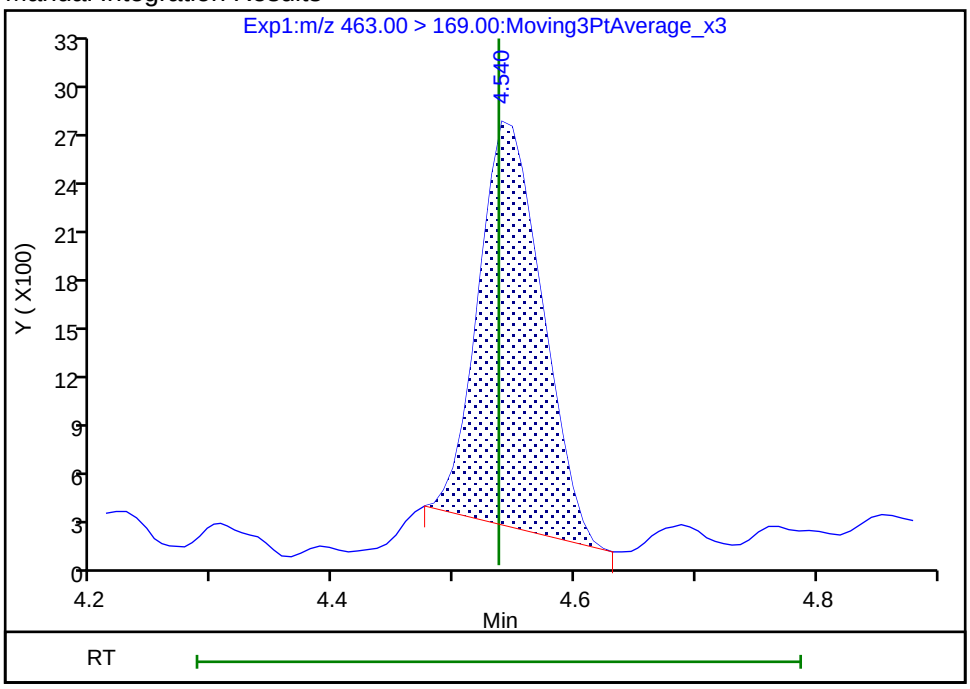
Processing Integration Results

RT: 4.54
Area: 9746
Amount: 0.025110
Amount Units: ng/ml



Manual Integration Results

RT: 4.54
Area: 9163
Amount: 0.022968
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:45:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

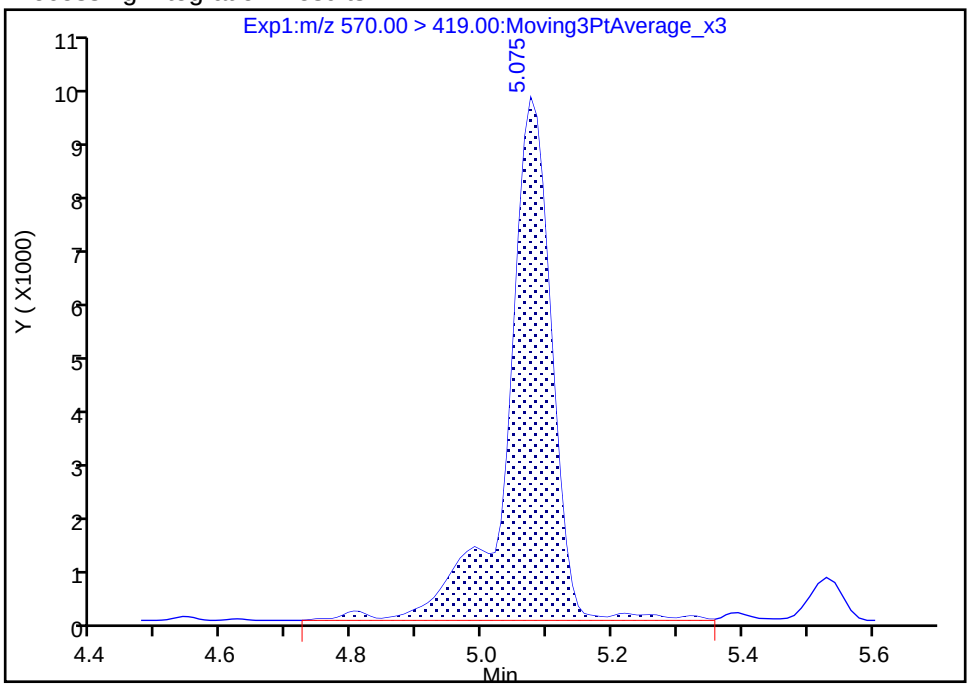
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

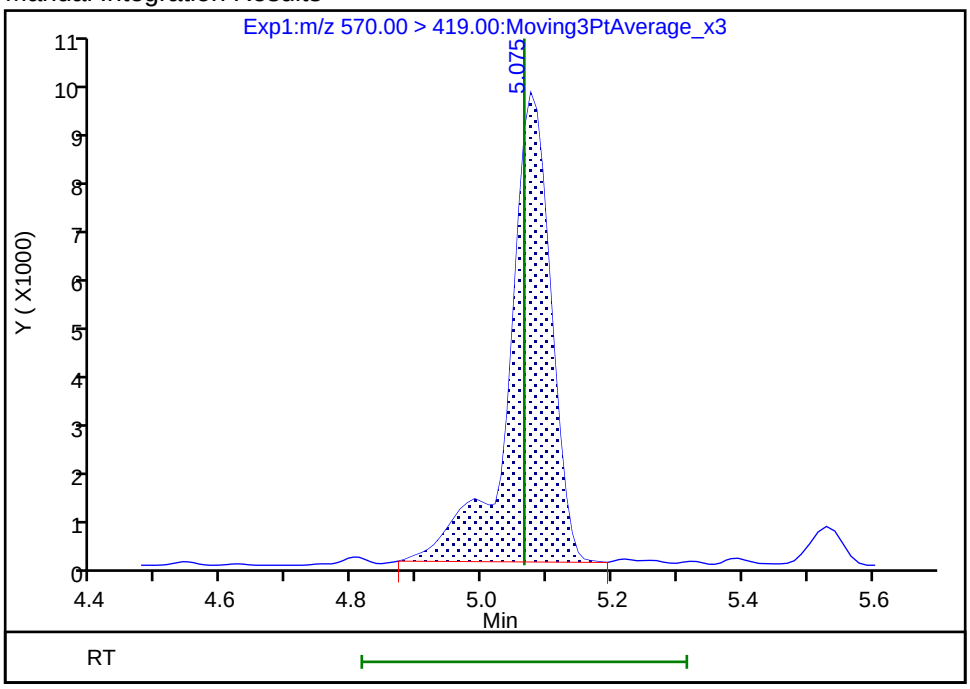
Processing Integration Results

RT: 5.07
Area: 43928
Amount: 0.023632
Amount Units: ng/ml



Manual Integration Results

RT: 5.07
Area: 41357
Amount: 0.022497
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:50:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

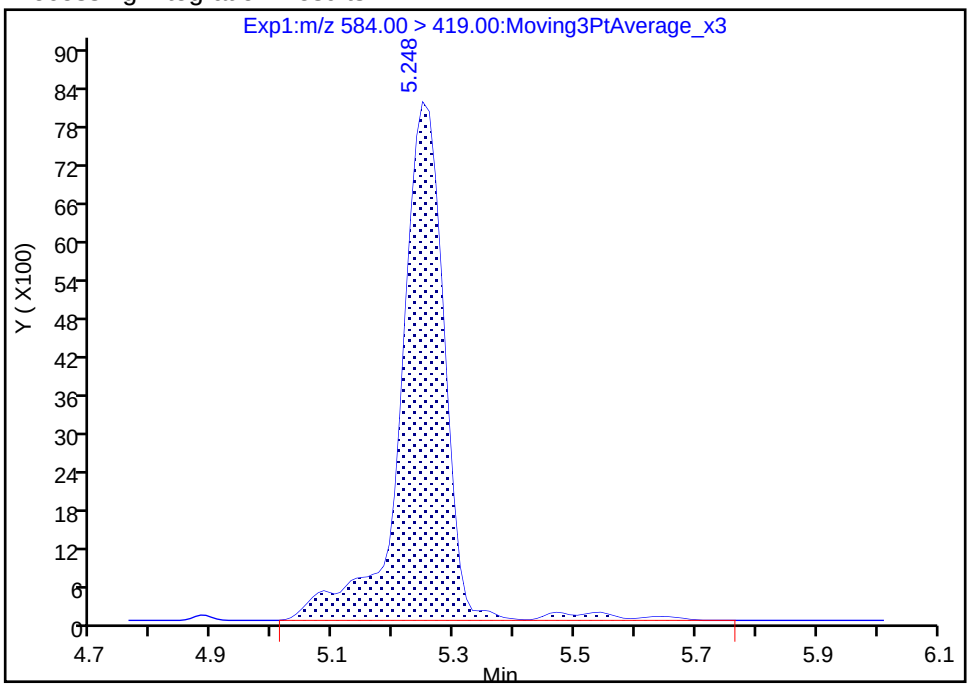
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

46 NEtFOSA, CAS: 2991-50-6

Signal: 1

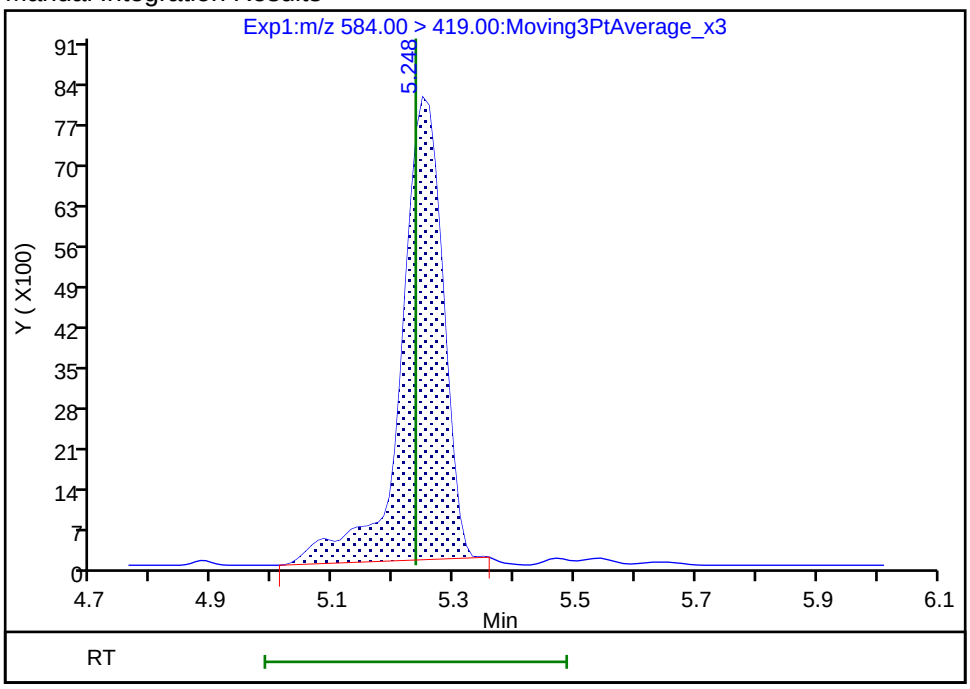
Processing Integration Results

RT: 5.25
Area: 41754
Amount: 0.021843
Amount Units: ng/ml



Manual Integration Results

RT: 5.25
Area: 39077
Amount: 0.020727
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:50:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

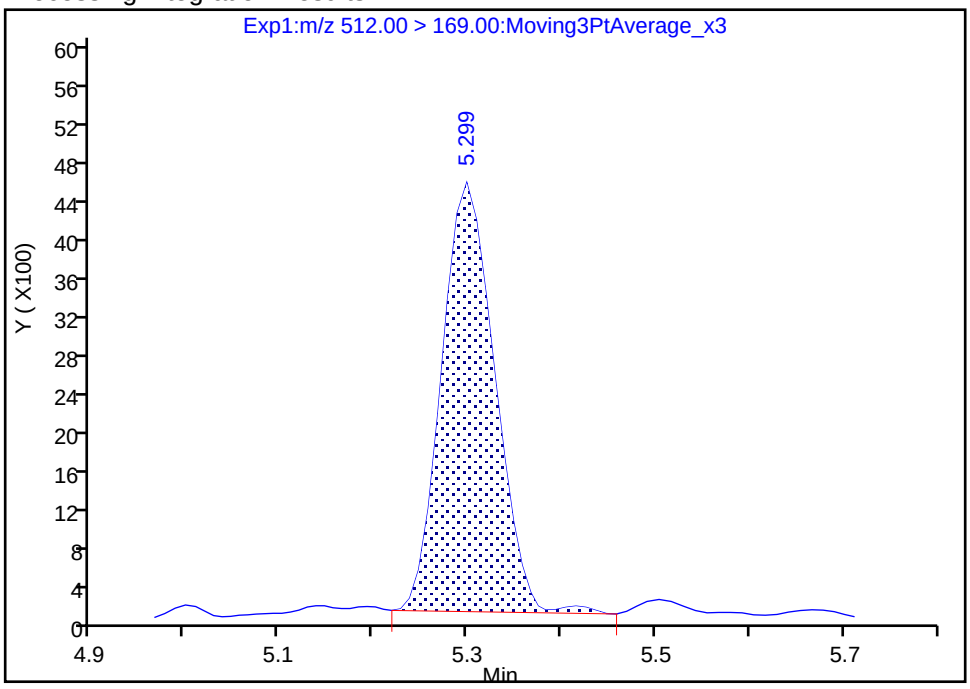
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

50 NMeFOSA, CAS: 31506-32-8

Signal: 1

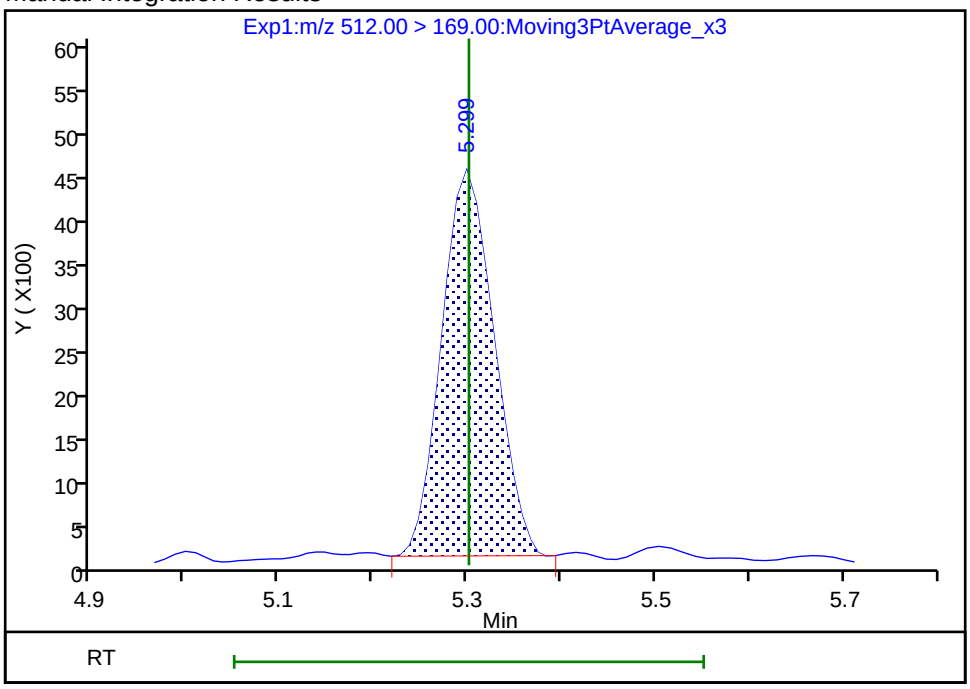
Processing Integration Results

RT: 5.30
Area: 17667
Amount: 0.021824
Amount Units: ng/ml



Manual Integration Results

RT: 5.30
Area: 17321
Amount: 0.021539
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:50:27
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

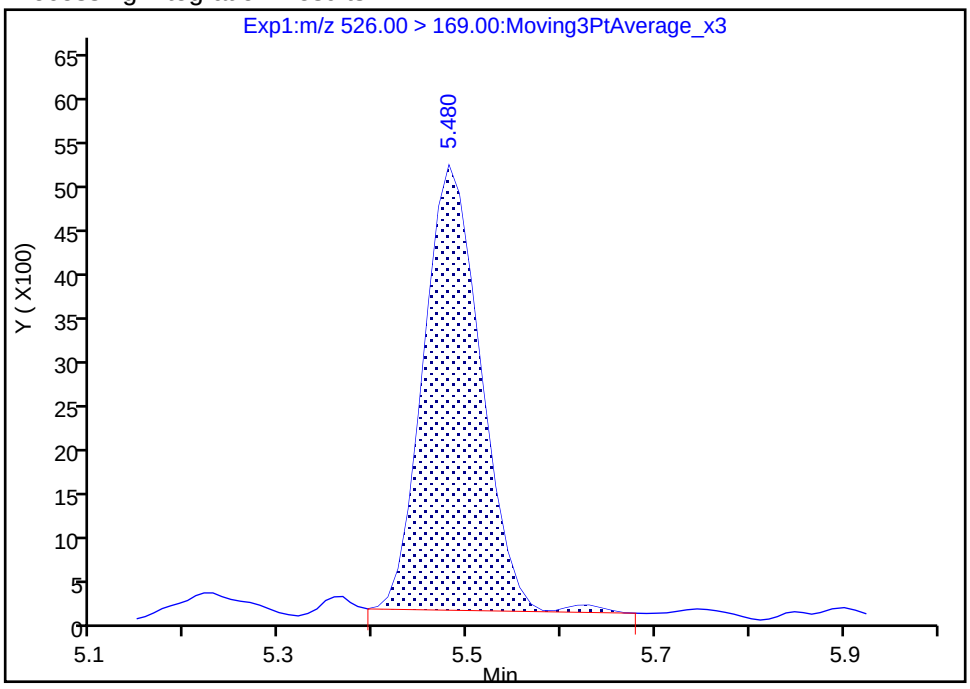
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

55 N-EtFOSA-M, CAS: 4151-50-2

Signal: 1

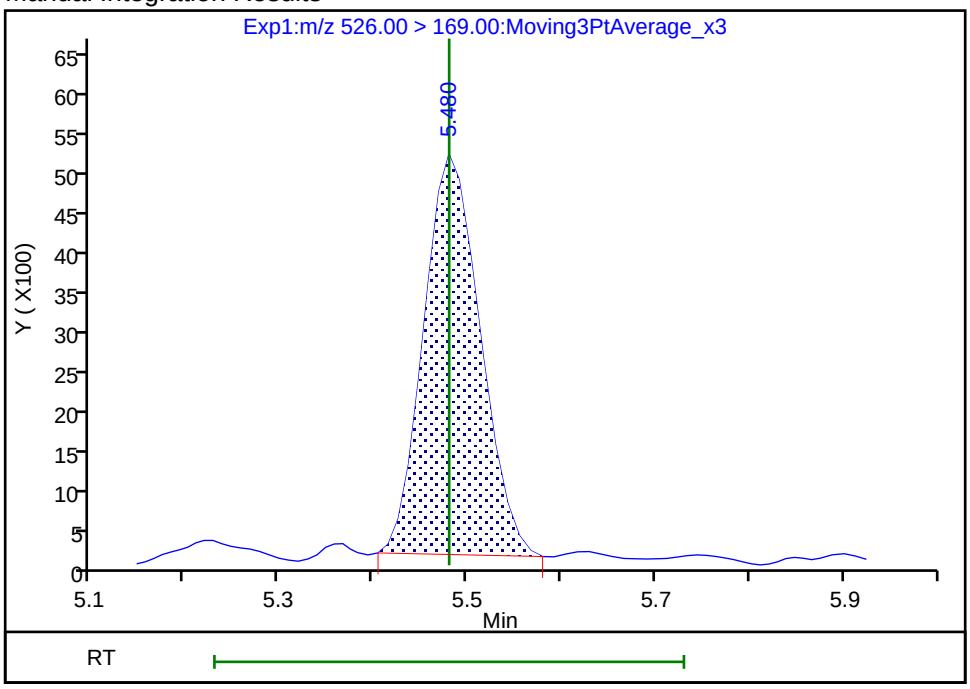
Processing Integration Results

RT: 5.48
Area: 21544
Amount: 0.022478
Amount Units: ng/ml



Manual Integration Results

RT: 5.48
Area: 21111
Amount: 0.022083
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:50:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

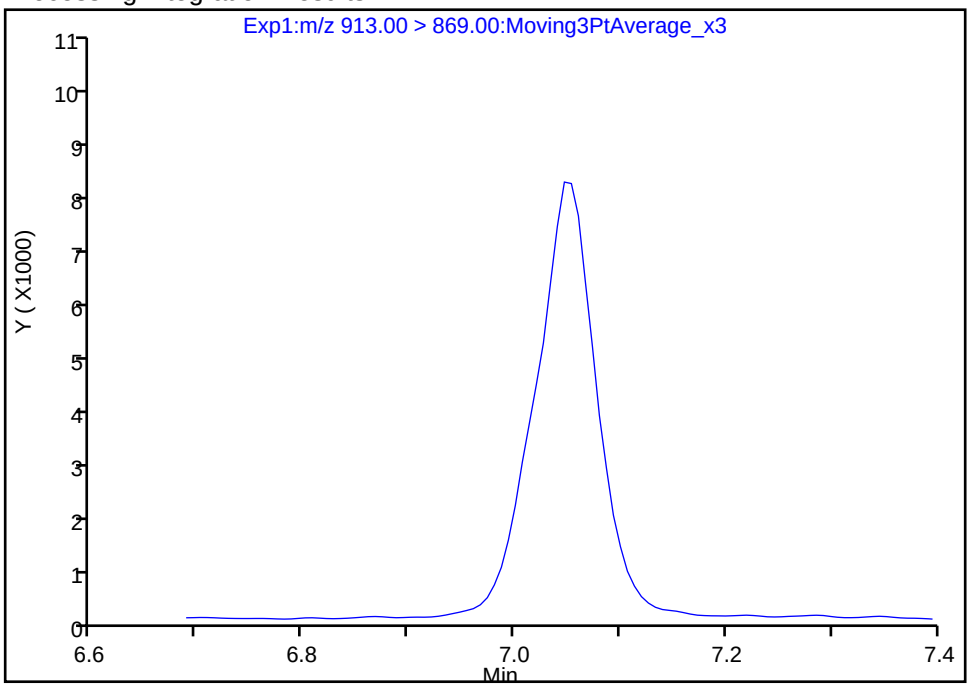
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

65 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

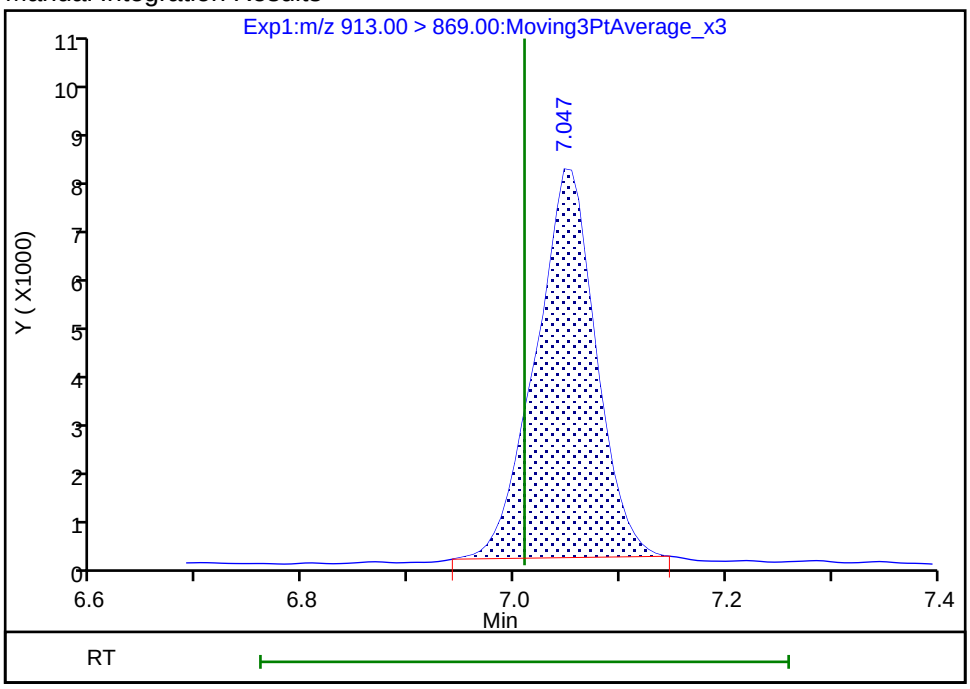
Not Detected
Expected RT: 7.01

Processing Integration Results



Manual Integration Results

RT: 7.05
Area: 29478
Amount: 0.019811
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:51:27
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

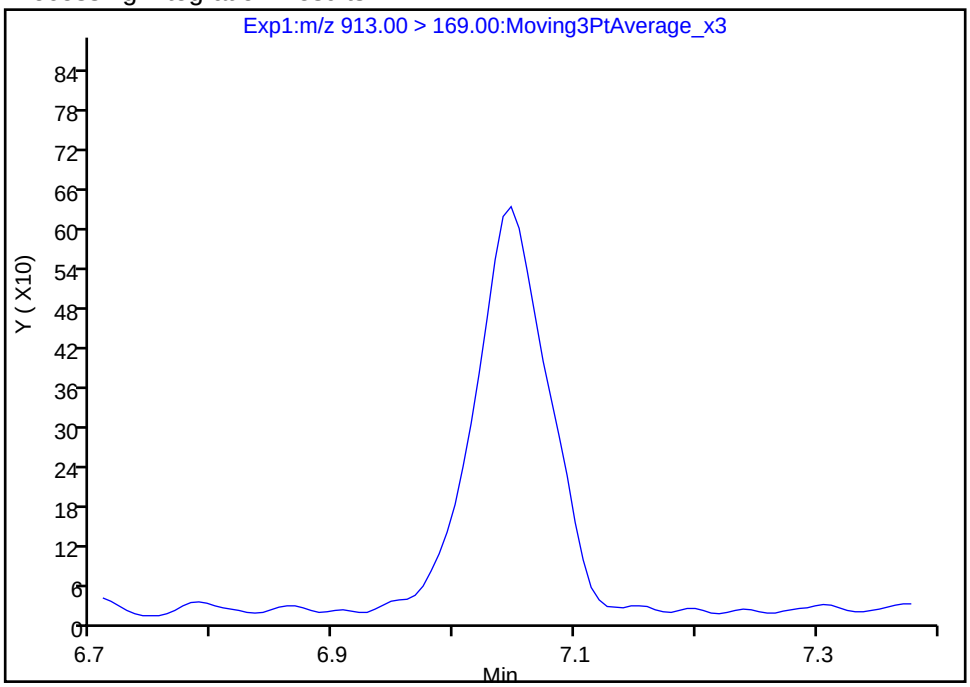
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_011.d
Injection Date: 25-Aug-2020 16:43:14 Instrument ID: A18
Lims ID: IC STD 1
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 6 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

65 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

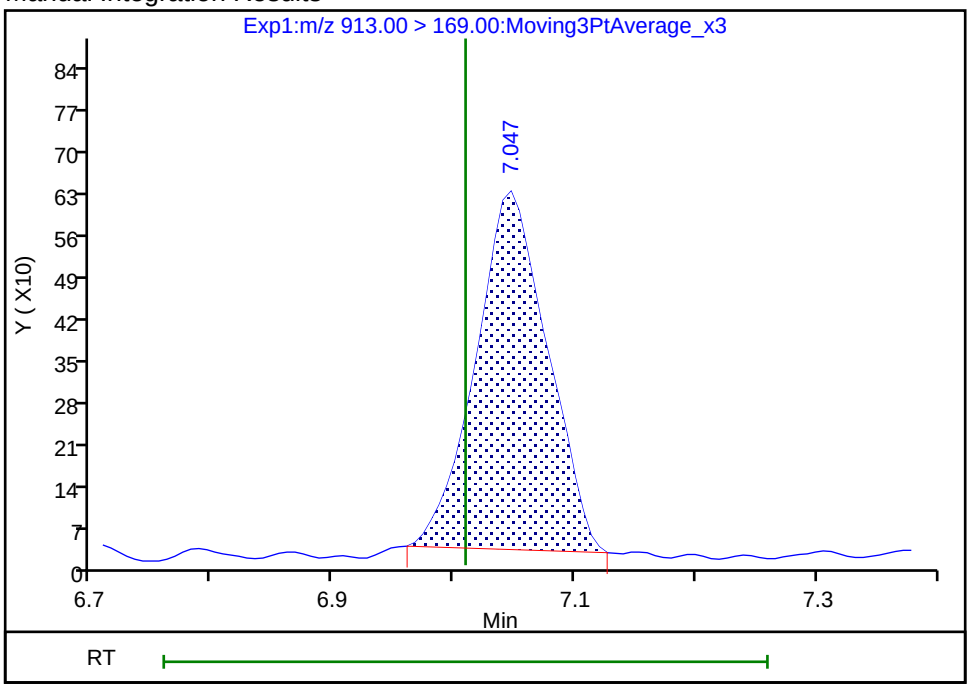
Not Detected
Expected RT: 7.01

Processing Integration Results



Manual Integration Results

RT: 7.05
Area: 2482
Amount: 0.019811
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:51:56
Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Lims ID: IC STD 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Aug-2020 16:52:21 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 2 (20)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:42:26 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 05:54:24
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.573	2.577	-0.004	0.621	17539640	2.43		97.3	8413	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.582	2.580	0.002	1.003	279410	0.0459		91.8	13.0	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.940	2.941	-0.001	1.000	288057	0.0517		103	15.7	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.940	2.941	-0.001	0.709	13968137	2.49		99.6	5891	
D 9 13C3 PFBS										
301.90 > 80.00	2.973	2.977	-0.004	0.717	10069352	2.29		98.3	4277	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.973	2.982	-0.009	1.000	182071	0.0416	Target=2.30	94.2	40.1	
298.90 > 99.00	2.973	2.982	-0.009	1.000	83766		2.17(1.15-3.45)	94.2	33.2	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.288	3.288	0.0	0.793	2573214	2.42		104	1010	
8 4:2 FTS										
327.00 > 307.00	3.288	3.288	0.0	1.000	105243	0.0420		90.0	775	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.330	3.334	-0.004	1.000	270599	0.0501	Target=13.78	100	23.2	
313.00 > 119.00	3.330	3.334	-0.004	1.000	18463		14.66(6.89-20.66)	100	16.3	
D 11 13C2 PFHxA										
315.00 > 270.00	3.330	3.334	-0.004	0.803	14014978	2.50		100	7448	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.341	3.349	-0.008	1.124	149083	0.0434	Target=3.02	92.6	35.4	
349.00 > 99.00	3.352	3.349	0.003	1.127	49925		2.99(1.51-4.52)	92.6	40.0	
13 HPFO-DA										
285.00 > 169.00	3.458	3.463	-0.005	1.000	53068	0.0476		95.2	223	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.458	3.463	-0.005	0.834	2860041	2.50		99.9	5592	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.751	3.750	0.001	1.000	243648	0.0535	Target=3.84	107	30.1	
363.00 > 169.00	3.741	3.750	-0.009	0.997	62183		3.92(1.92-5.76)	107	46.3	
D 18 13C4 PFHpA										
367.00 > 322.00	3.751	3.750	0.001	0.904	11221961	2.35		93.9	8376	
D 17 18O2 PFHxS										
403.00 > 84.00	3.751	3.752	-0.001	0.904	5392336	2.32		97.9	6338	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.751	3.752	-0.001	1.000	126222	0.0469	Target=3.50	103	40.6	
399.00 > 99.00	3.751	3.752	-0.001	1.000	35066		3.60(1.75-5.25)	103	33.2	M
19 DONA										
377.00 > 251.00	3.798	3.800	-0.002	0.841	673135	0.0449	Target=2.42	95.2	812	
377.00 > 85.00	3.798	3.800	-0.002	0.841	274532		2.45(1.21-3.63)	95.2	436	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.123	4.127	-0.004	0.994	2157624	2.42		102	1284	
21 6:2 FTS										
427.00 > 407.00	4.123	4.127	-0.004	1.000	99806	0.0478		101	157	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.139	4.143	-0.004	0.916	78602	0.0449	Target=4.40	94.3	38.5	
449.00 > 99.00	4.131	4.143	-0.012	0.914	16608		4.73(2.20-6.60)	94.3	29.0	
$ 26 13C8 PFOA										
421.00 > 376.00	4.147	4.147	0.0	1.000	7878856	2.56		105	5703	
D 25 13C4 PFOA										
417.00 > 372.00	4.147	4.150	-0.003	1.000	11846326	2.60		104	9802	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.147	4.150	-0.003	1.000	240184	0.0497	Target=2.94	99.3	39.5	M
413.00 > 169.00	4.155	4.150	0.005	1.002	87609		2.74(1.47-4.41)	99.3	84.4	
* 23 13C2 PFOA										
415.00 > 370.00	4.147	4.151	-0.004		11373826	2.50			8085	
$ 28 13C8 PFOS										
507.00 > 99.00	4.517	4.514	0.003	1.089	1200648	2.44		102	3580	
D 27 13C4 PFOS										
503.00 > 80.00	4.517	4.516	0.001	1.089	3743125	2.37		99.3	1488	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.517	4.518	-0.001	1.000	70065	0.0432	Target=4.53	93.2	23.9	M
499.00 > 99.00	4.517	4.518	-0.001	1.000	16976		4.13(2.26-6.79)	93.2	25.9	M
D 30 13C5 PFNA										
468.00 > 423.00	4.534	4.533	0.001	1.093	9311565	2.54		102	7380	
31 Perfluorononanoic acid										
463.00 > 419.00	4.542	4.537	0.005	1.002	164095	0.0459	Target=8.97	91.9	30.5	
463.00 > 169.00	4.534	4.537	-0.003	1.000	18657		8.80(4.48-13.45)	91.9	25.9	
32 9ClFOS										
531.00 > 351.00	4.723	4.724	-0.001	1.046	214392	0.0423		90.8	911	
D 33 13C8 FOSA										
506.00 > 78.00	4.828	4.830	-0.002	1.164	6435127	2.53		101	12688	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.828	4.830	-0.002	1.000	113545	0.0474		94.8	727	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.872	4.868	0.004	1.078	65415	0.0446	Target=2.85	92.9	50.5	
549.00 > 99.00	4.872	4.868	0.004	1.078	22994		2.84(1.43-4.28)	92.9	50.6	
D 39 13C2 PFDA										
515.00 > 470.00	4.889	4.892	-0.003	1.179	10016493	2.81		112	11177	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.898	4.896	0.002	1.002	164851	0.0427	Target=10.16	85.4	61.6	
513.00 > 169.00	4.898	4.896	0.002	1.002	17004		9.69(5.08-15.24)	85.4	31.0	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.898	4.897	0.001	1.181	3413693	2.66		111	1823	
36 8:2 FTS										
527.00 > 507.00	4.898	4.898	0.0	1.000	110874	0.0438		91.5	1270	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.066	5.062	0.004	1.222	5834171	2.44		97.6	4941	
41 NMeFOSAA										
570.00 > 419.00	5.066	5.065	0.001	1.000	81058	0.0468		93.7	157	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.193	5.191	0.002	1.150	63477	0.0485	Target=2.77	101	62.0	
599.00 > 99.00	5.193	5.191	0.002	1.150	23520		2.70(1.38-4.15)	101	85.9	
D 43 13C2 PFUnA										
565.00 > 520.00	5.220	5.221	-0.001	1.259	9221199	2.61		105	11729	
45 Perfluoroundecanoic acid										M
563.00 > 519.00	5.220	5.221	-0.001	1.000	117260	0.0438	Target=8.43	87.7	66.7	
563.00 > 169.00	5.220	5.221	-0.001	1.000	15887		7.38(4.22-12.65)	87.7	24.2	M
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.230	5.227	0.003	1.261	6600178	2.61		104	3241	
46 NEtFOSA										M
584.00 > 419.00	5.239	5.236	0.003	1.002	76967	0.0431		86.3	277	M
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.269	5.272	-0.003	1.271	7361005	11.7		93.5	2879	
48 N-MeFOSE-M										
616.00 > 59.00	5.280	5.285	-0.005	1.002	31116	0.0489		97.9	46.8	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.290	5.295	-0.005	1.276	2111503	2.36		94.5	52.3	
50 NMeFOSA										M
512.00 > 169.00	5.300	5.301	-0.001	1.002	35943	0.0443		88.6	79.1	M
51 11ClFOS										
631.00 > 451.00	5.367	5.363	0.004	1.188	276531	0.0430		91.4	868	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.437	5.443	-0.006	1.311	8799748	11.4		91.0	1250	
53 N-EtFOSE-M										
630.00 > 59.00	5.448	5.456	-0.008	1.002	35999	0.0477		95.3	32.3	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.469	5.471	-0.002	1.319	2125583	2.32		92.9	402	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.480	5.480	0.0	1.002	47929	0.0533		107	94.1	
D 56 13C2 PFDoA										
615.00 > 570.00	5.530	5.521	0.009	1.333	8425257	2.42		96.8	6629	
57 Perfluorododecanoic acid										M
613.00 > 569.00	5.530	5.523	0.007	1.000	164490	0.0477	Target=9.12	95.5	77.3	
613.00 > 169.00	5.530	5.523	0.007	1.000	20293		8.11(4.56-13.69)	95.5	45.5	M
58 10:2 FTS										
627.00 > 607.00	5.542	5.541	0.001	1.132	129032	0.0449		93.3	886	
59 PFDoS										
699.00 > 80.00	5.755	5.751	0.004	1.274	26418	0.0507	Target=0.72	105	29.3	
699.00 > 99.00	5.755	5.751	0.004	1.274	34324		0.77(0.36-1.07)	105	222	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.793	5.795	-0.002	1.048	171790	0.0542	Target=6.78	108	113	
663.00 > 169.00	5.793	5.795	-0.002	1.048	22701		7.57(3.39-10.17)	108	87.9	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.042	6.038	0.004	1.457	7321736	2.55		102	6430	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.052	6.041	0.011	1.002	12981	0.0525	Target=0.85	105	90.1	
713.00 > 219.00	6.042	6.041	0.001	1.000	14672		0.88(0.43-1.28)	105	115	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.510	6.505	0.005	1.570	5624126	2.68		107	5424	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.517	6.507	0.010	1.001	135536	0.0448	Target=10.21	89.6	133	
813.00 > 169.00	6.517	6.507	0.010	1.001	13920		9.74(5.11-15.32)	89.6	146	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	7.034	7.009	0.025	1.080	66963	0.0451	Target=12.45	90.1	96.1	
913.00 > 169.00	7.021	7.009	0.012	1.078	4636		14.44(6.22-18.67)	90.1	85.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00020 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:42:28 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d

Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18

Lims ID: IC STD 2

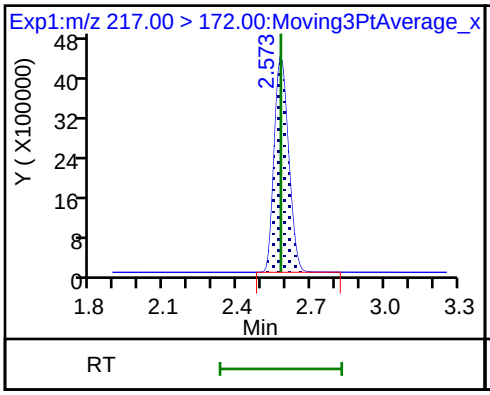
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3

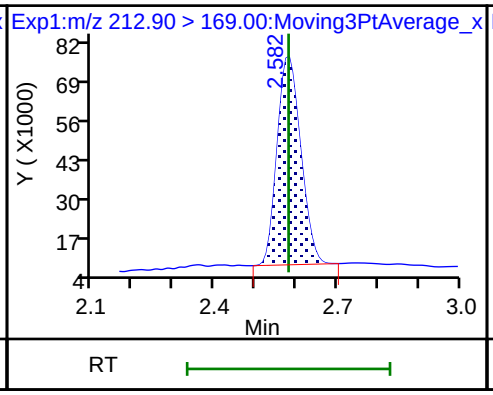
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

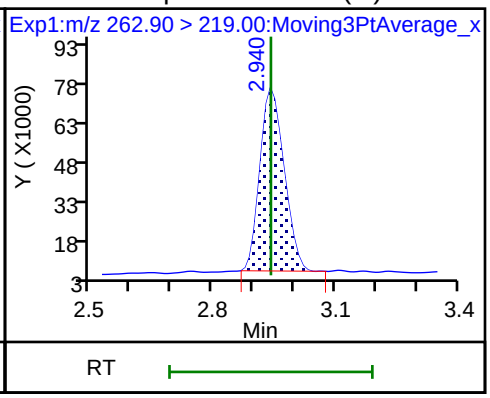
D 1 13C4 PFBA



2 Perfluorobutanoic acid



5 Perfluoropentanoic acid (M)



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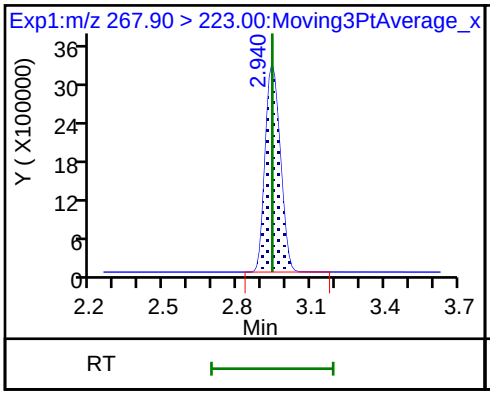

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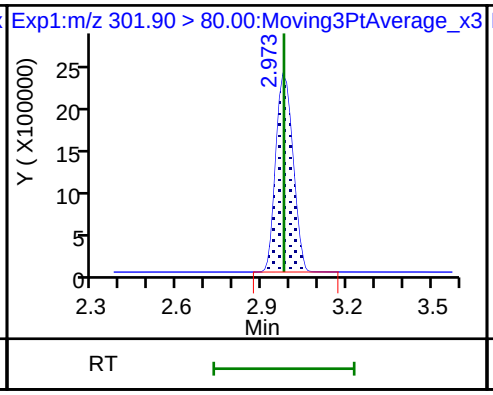
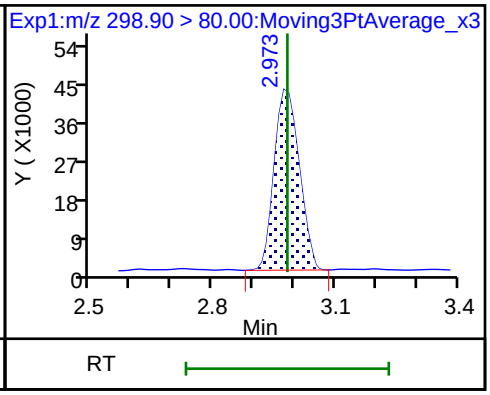
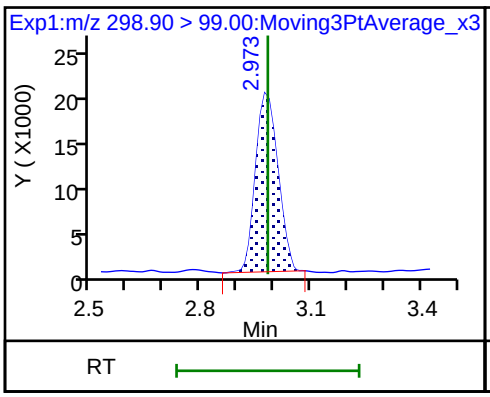


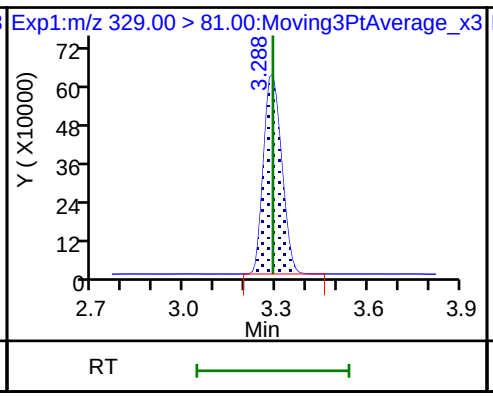
6 Perfluorobutanesulfonic acid



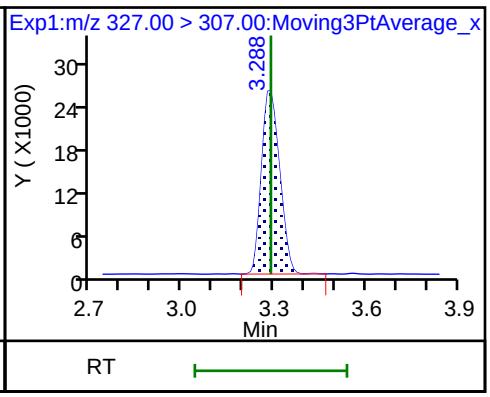
6 Perfluorobutanesulfonic acid



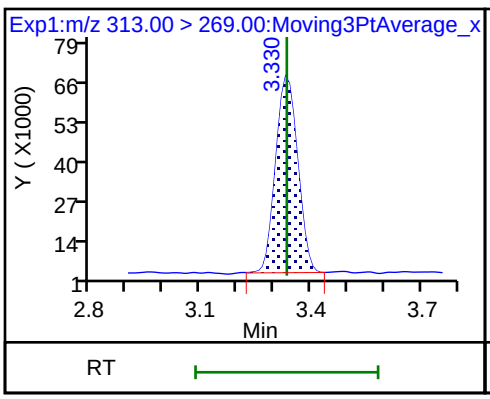
D 7 M2-4:2 FTS



8 4:2 FTS



10 Perfluorohexanoic acid



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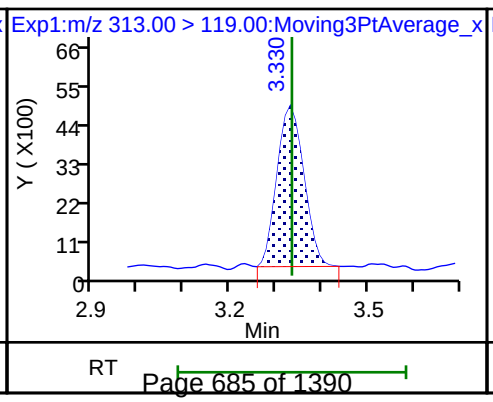
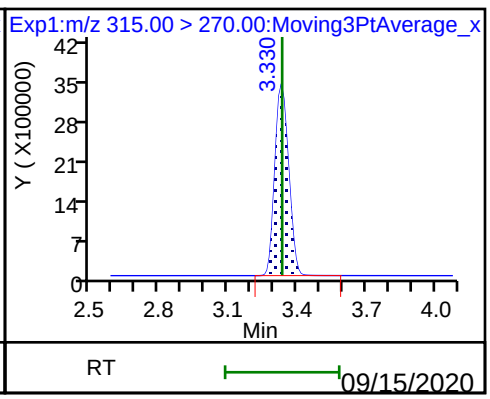
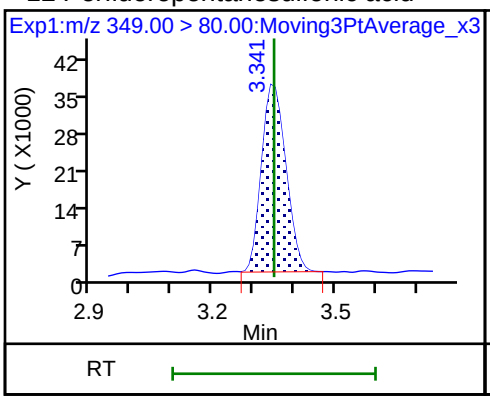


D 11 13C2 PFHxA



12 Perfluoropentanesulfonic acid



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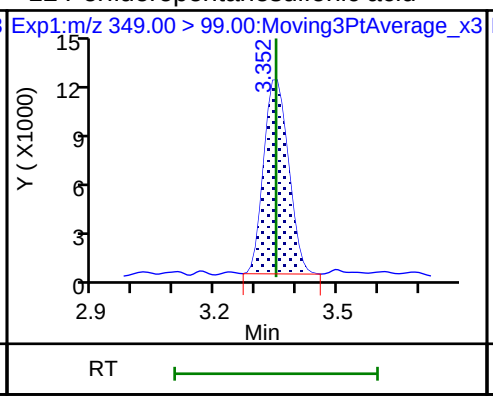
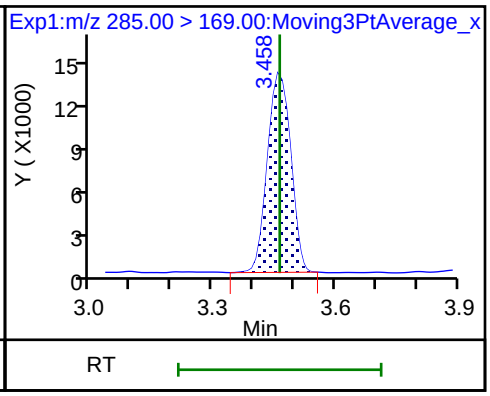
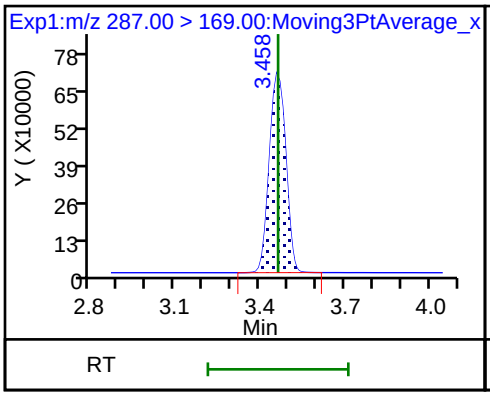


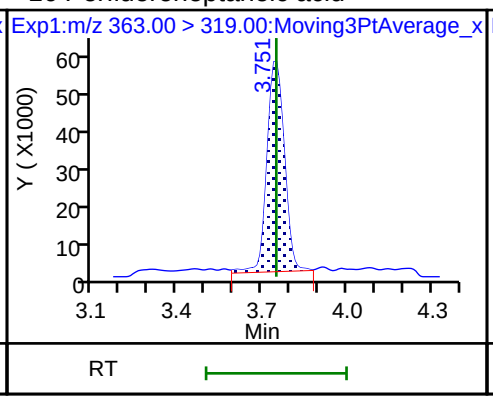
13 HPFO-DA



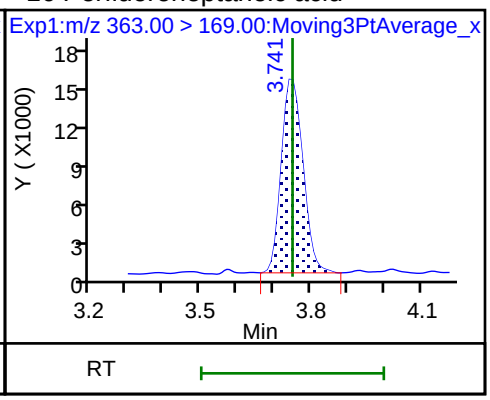
D 14 13C3 HFPO-DA



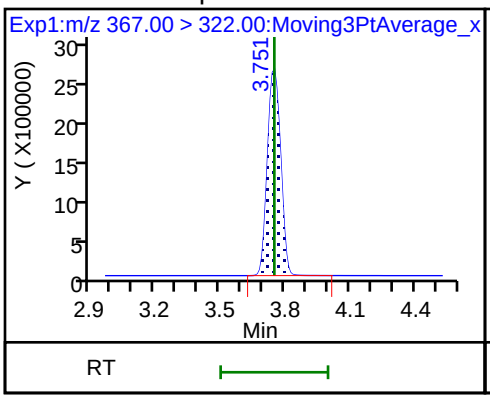
16 Perfluoroheptanoic acid



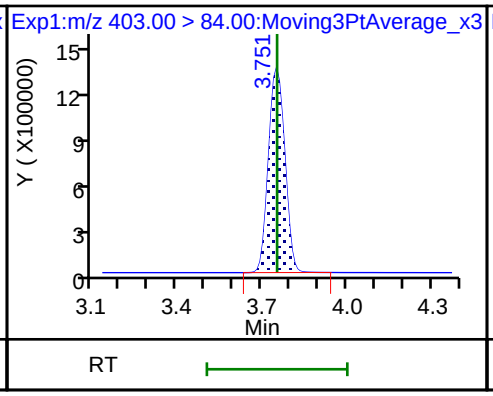
16 Perfluoroheptanoic acid



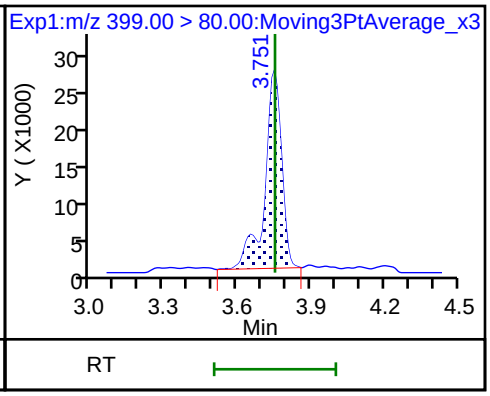
D 18 13C4 PFHpA



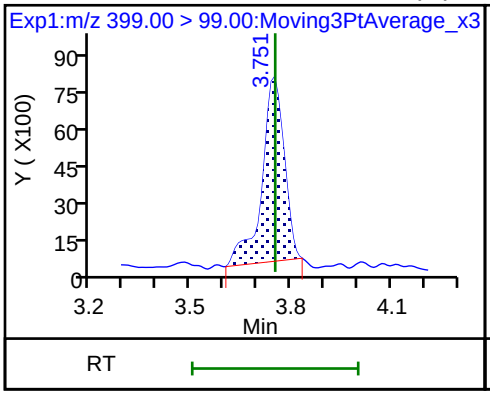
D 17 18O2 PFHxS



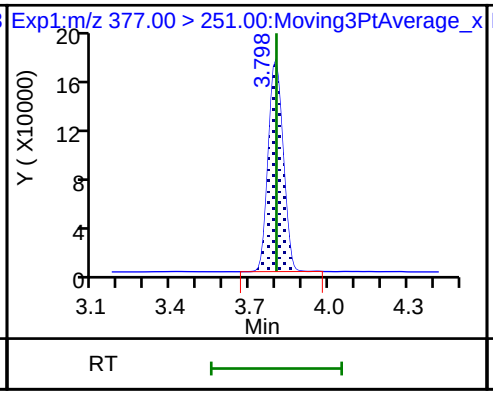
15 Perfluorohexanesulfonic acid



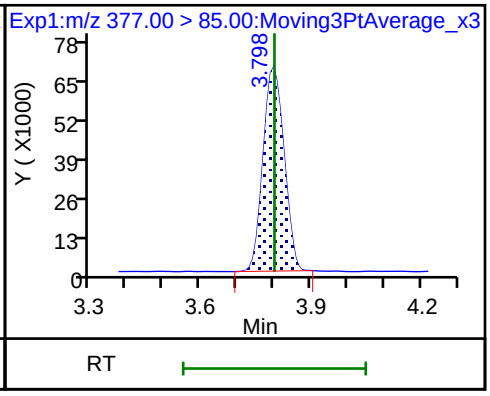
15 Perfluorohexanesulfonic acid (M)



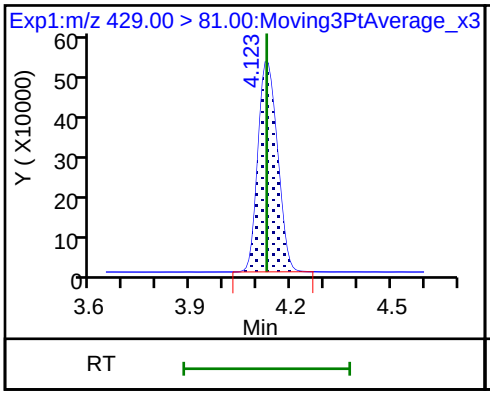
19 DONA



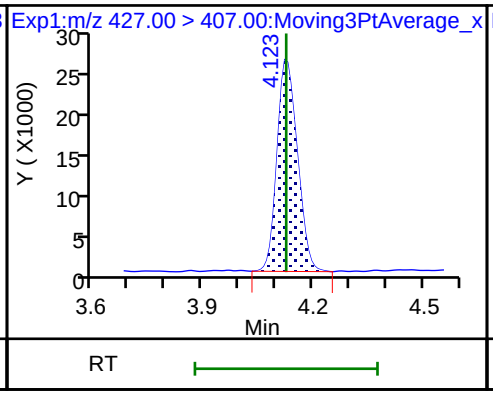
19 DONA



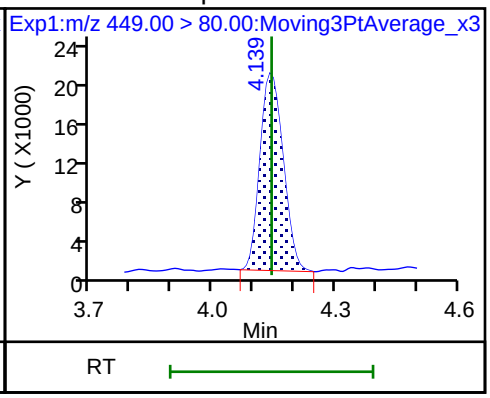
D 20 M2-6:2 FTS



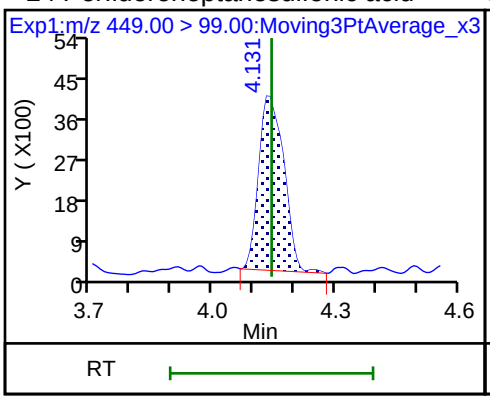
21 6:2 FTS



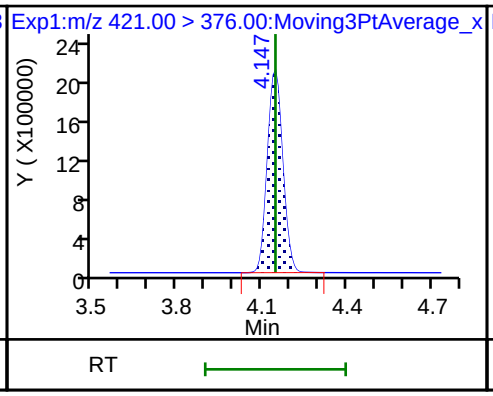
24 Perfluoroheptanesulfonic acid



24 Perfluoroheptanesulfonic acid



$ 26 13C8 PFOA



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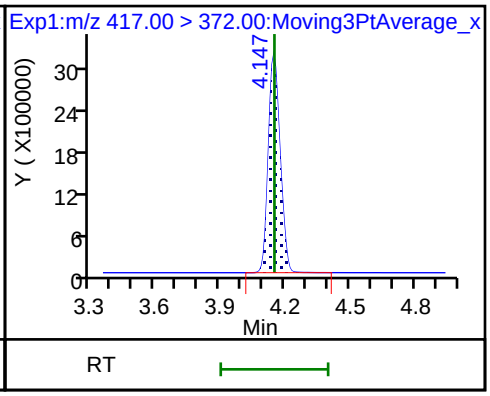
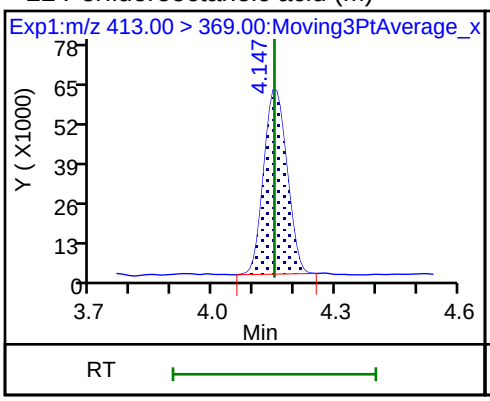
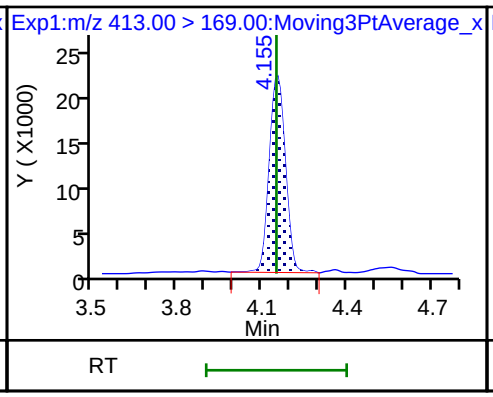


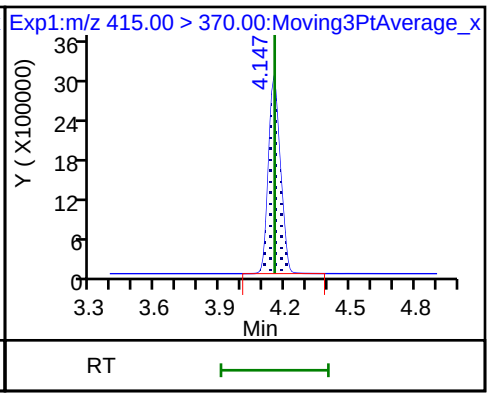
22 Perfluorooctanoic acid (M)



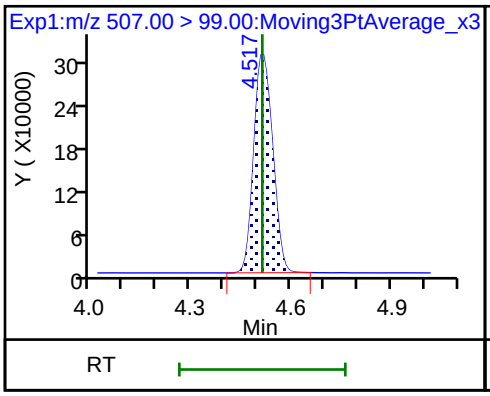
22 Perfluorooctanoic acid



* 23 13C2 PFOA



$ 28 13C8 PFOS



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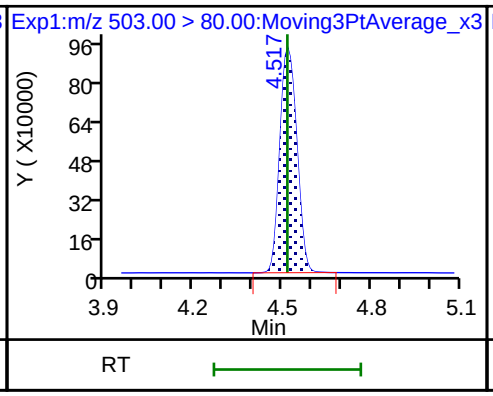
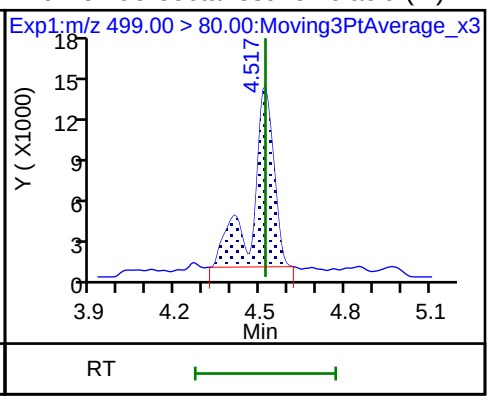
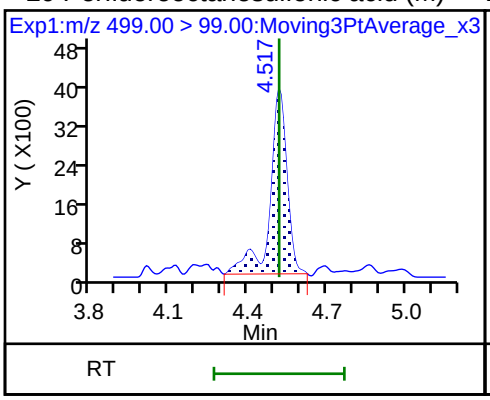


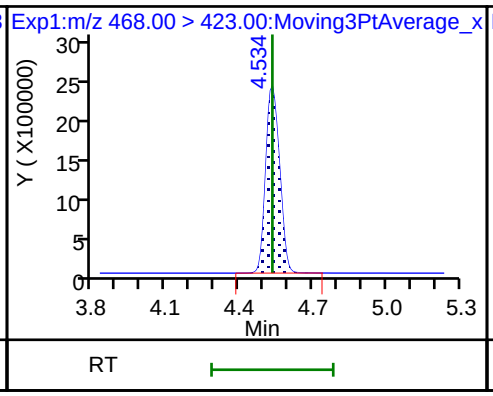
29 Perfluorooctanesulfonic acid (M)



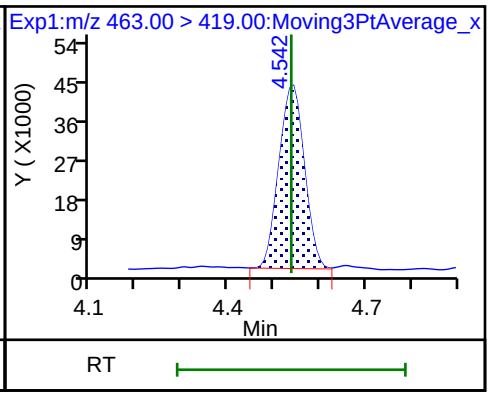
29 Perfluorooctanesulfonic acid (M)



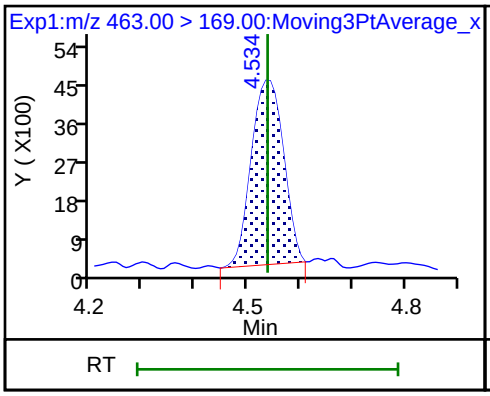
D 30 13C5 PFNA



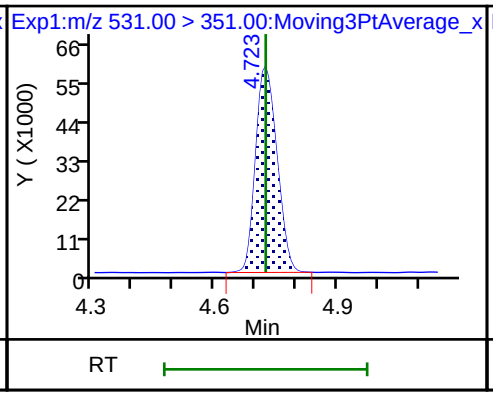
31 Perfluorononanoic acid



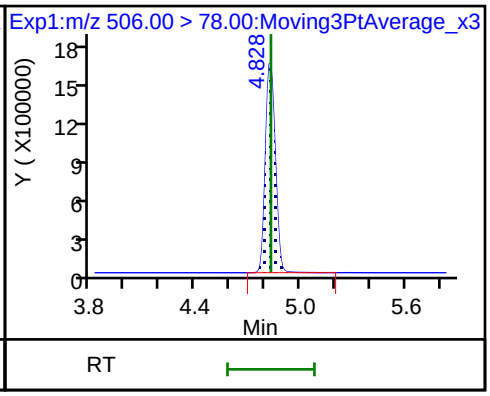
31 Perfluorononanoic acid



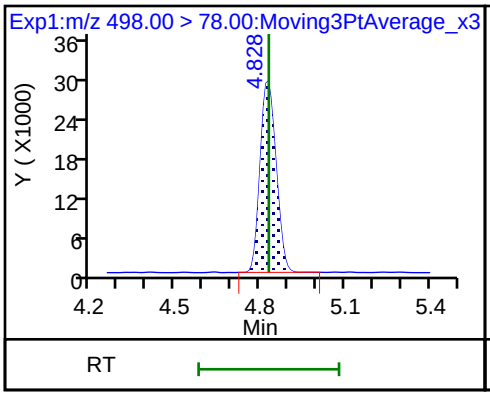
32 9ClFOS



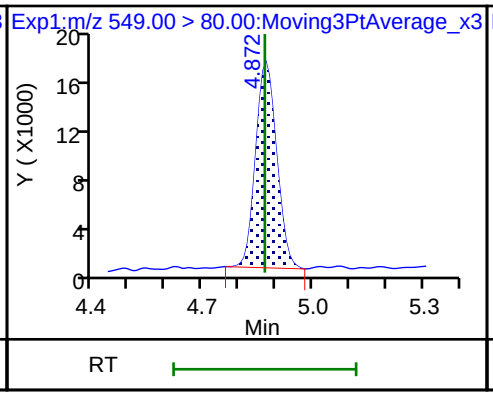
D 33 13C8 FOSA



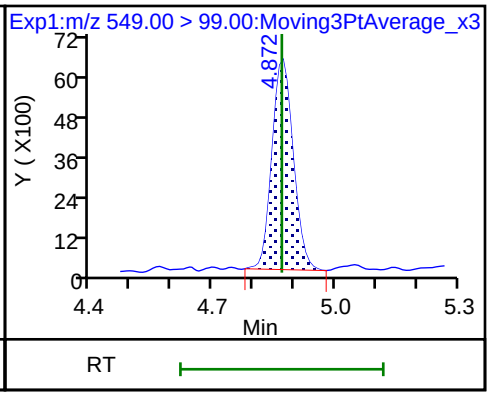
34 Perfluorooctanesulfonamide



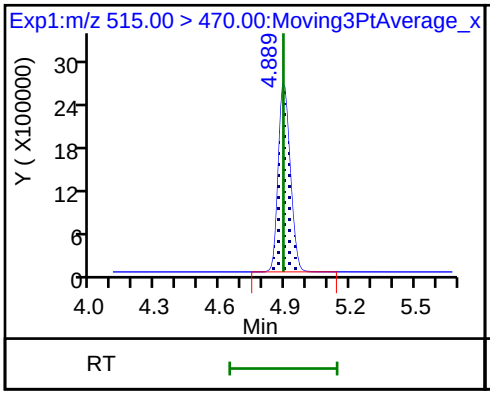
35 Perfluorononanesulfonic acid



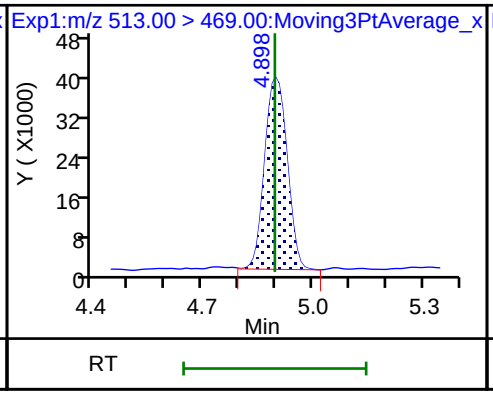
35 Perfluorononanesulfonic acid



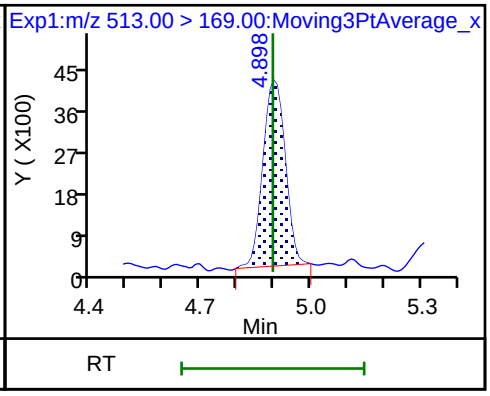
D 39 13C2 PFDA



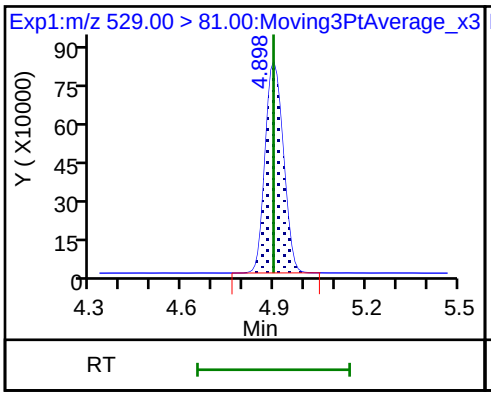
37 Perfluorodecanoic acid



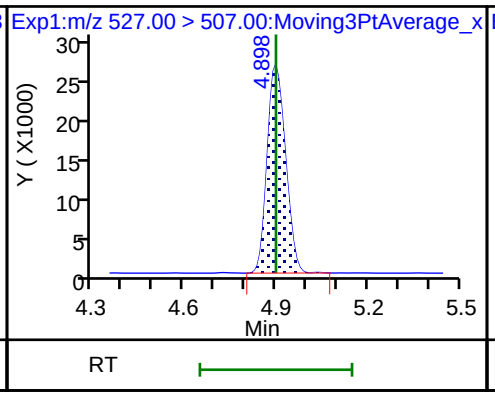
37 Perfluorodecanoic acid



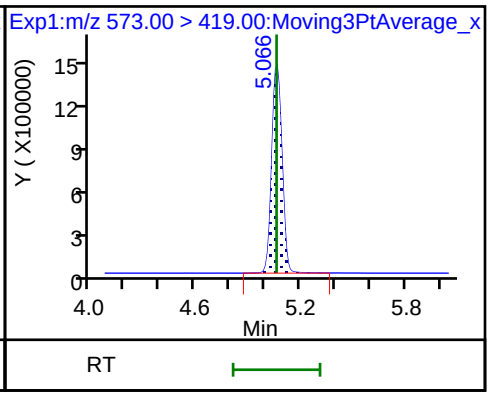
D 38 M2-8:2 FTS



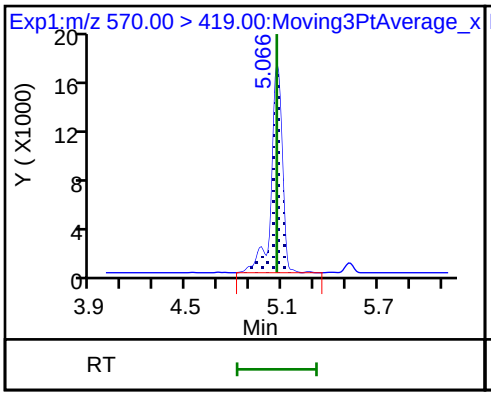
36 8:2 FTS



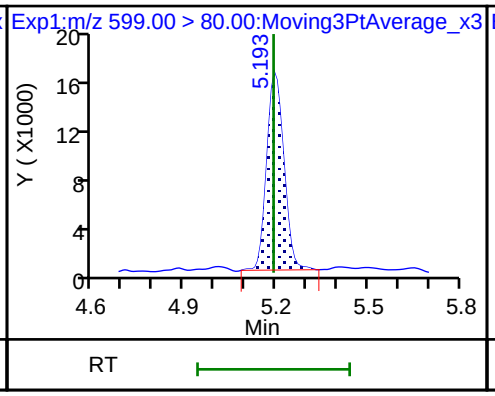
D 40 d3-NMeFOSAA



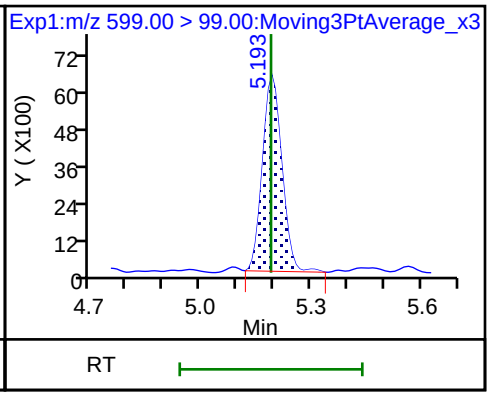
41 NMeFOSAA



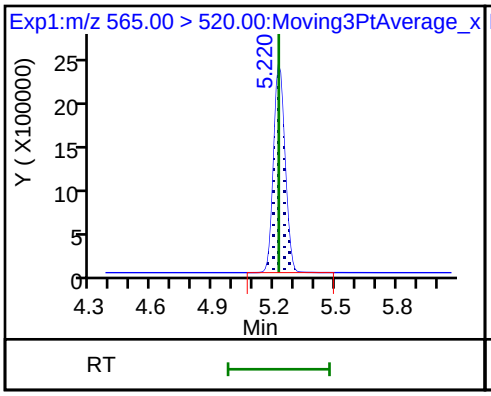
42 Perfluorodecanesulfonic acid



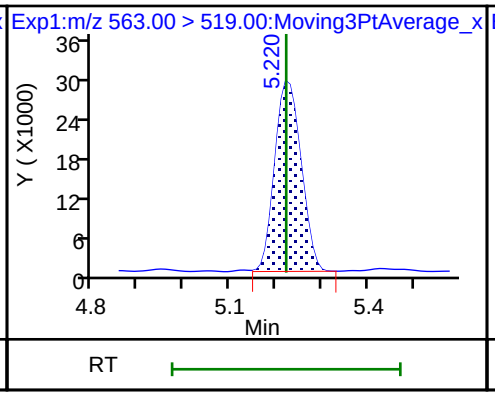
42 Perfluorodecanesulfonic acid



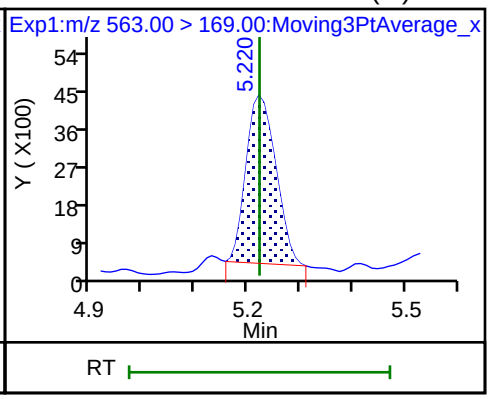
D 43 13C2 PFUnA



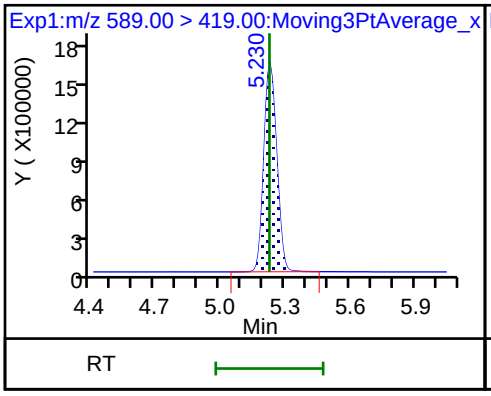
45 Perfluoroundecanoic acid



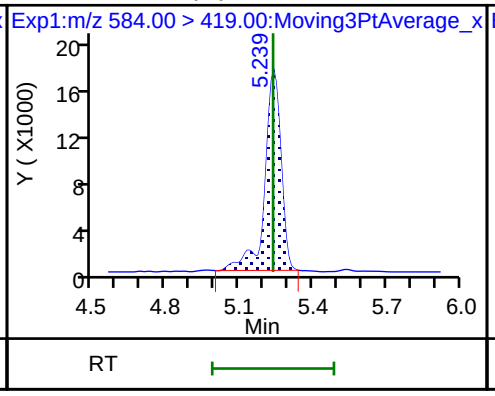
45 Perfluoroundecanoic acid (M)



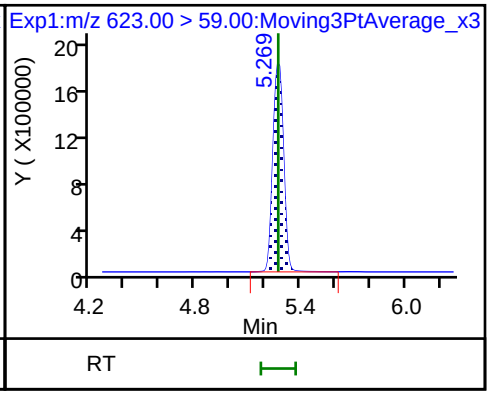
D 44 d5-NEtFOSAA



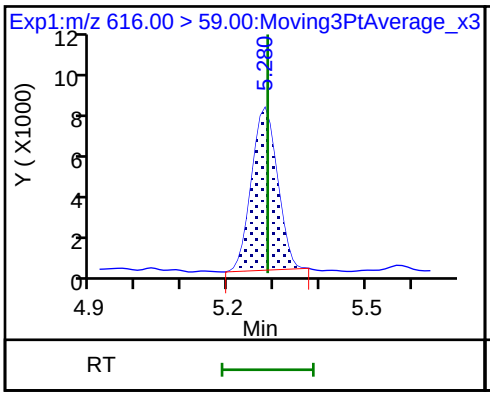
46 NEtFOSA (M)



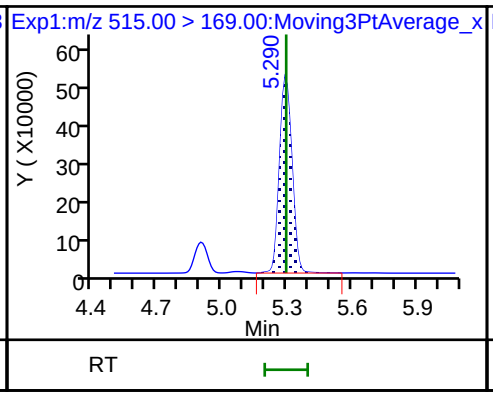
D 47 d7-N-MeFOSE-M



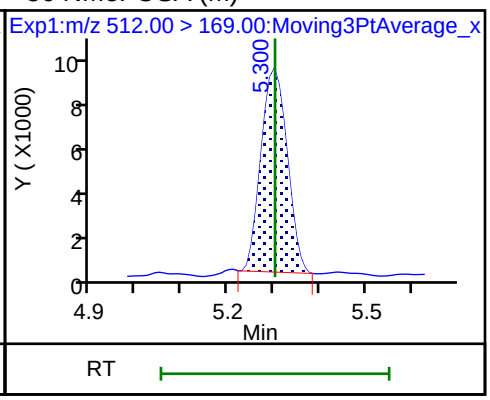
48 N-MeFOSE-M



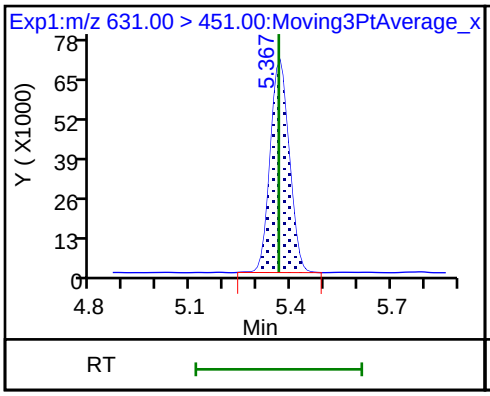
D 49 d-N-MeFOSA-M



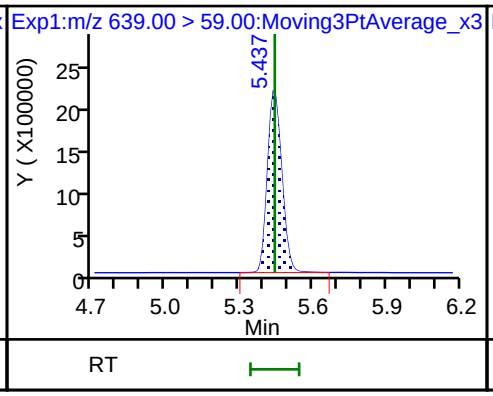
50 NMeFOSA (M)



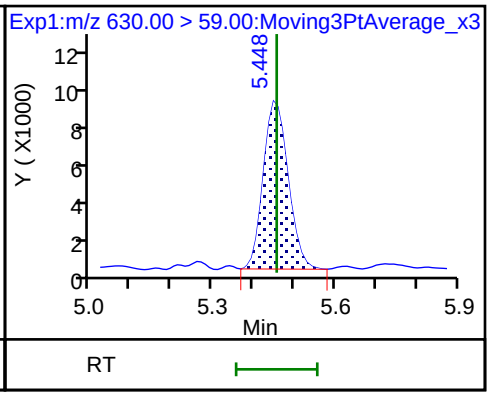
51 11ClFOS



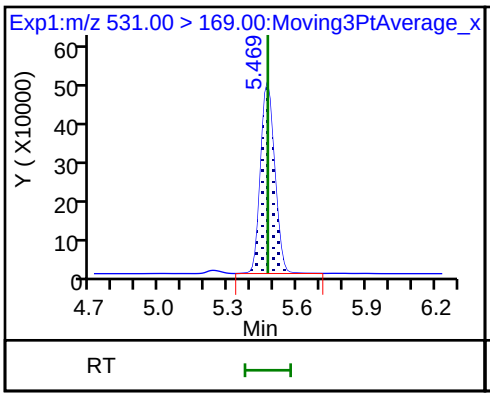
D 52 d9-N-EtFOSE-M



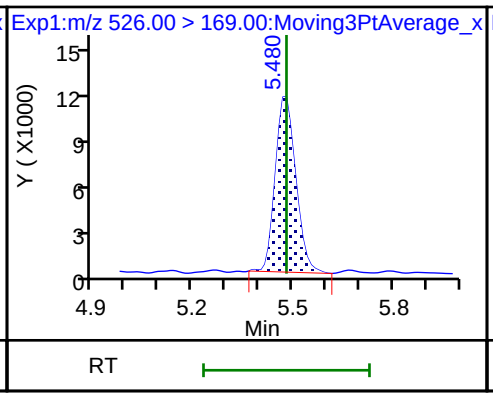
53 N-EtFOSE-M



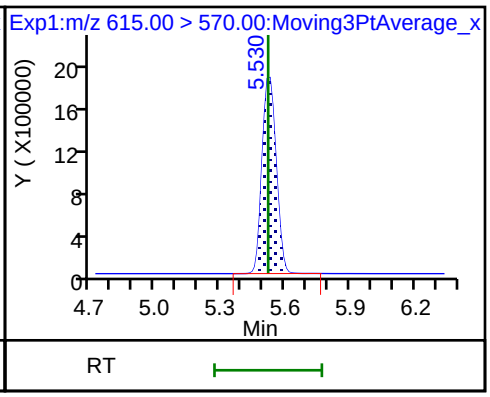
D 54 d-N-EtFOSA-M



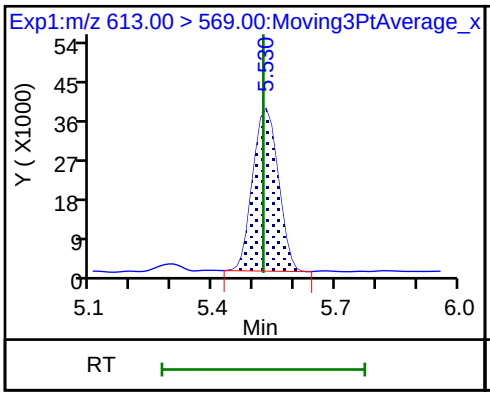
55 N-EtFOSA-M



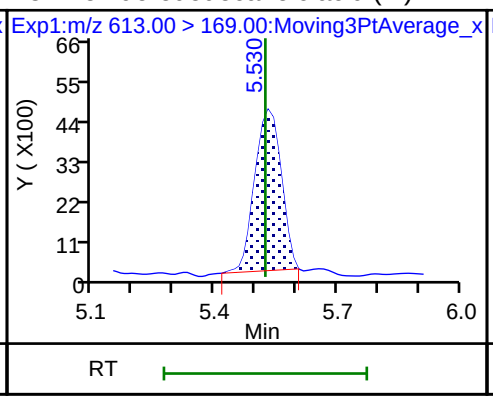
D 56 13C2 PFDoA



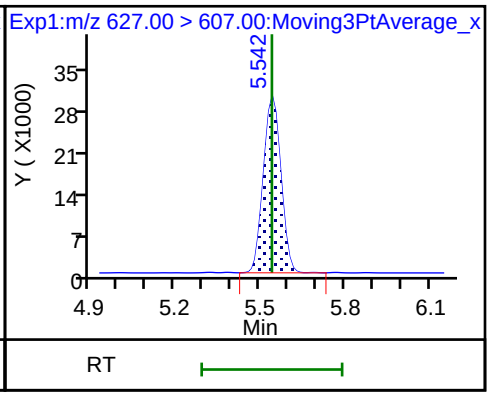
57 Perfluorododecanoic acid



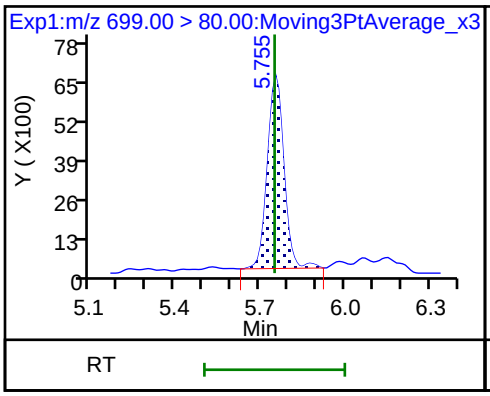
57 Perfluorododecanoic acid (M)



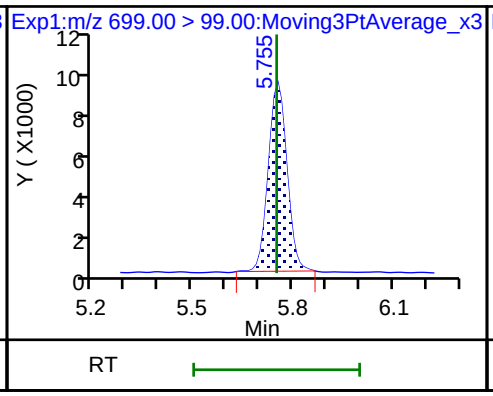
58 10:2 FTS



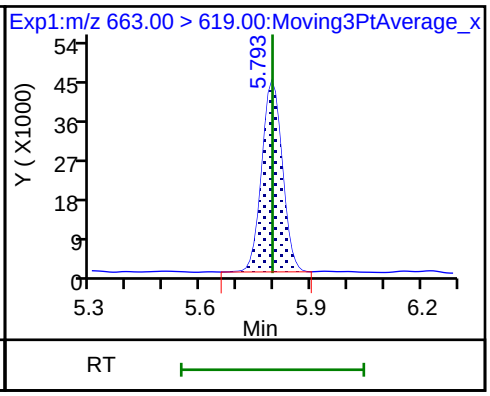
59 PFDoS



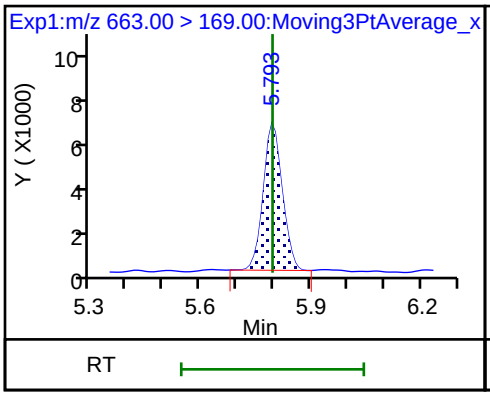
59 PFDoS



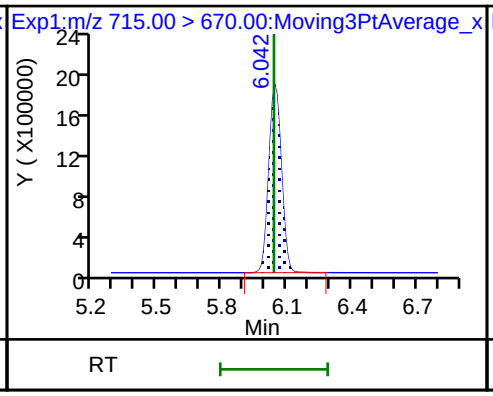
60 Perfluorotridecanoic acid



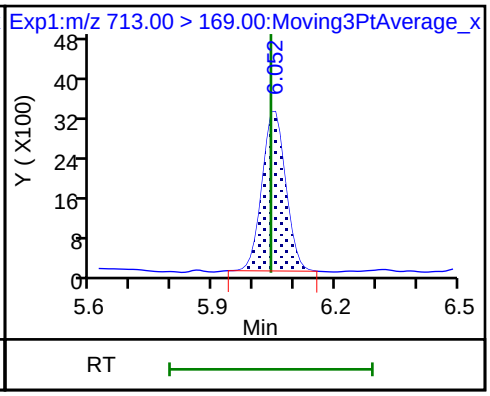
60 Perfluorotridecanoic acid



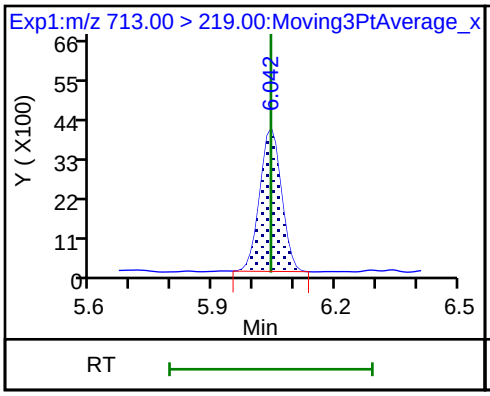
D 61 13C2 PFTeDA



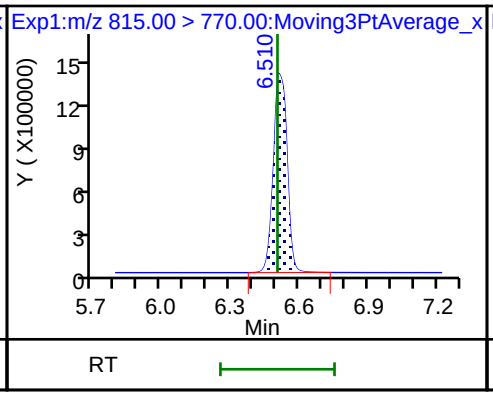
62 Perfluorotetradecanoic acid



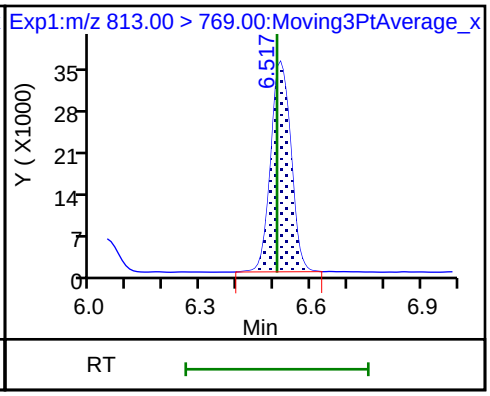
62 Perfluorotetradecanoic acid



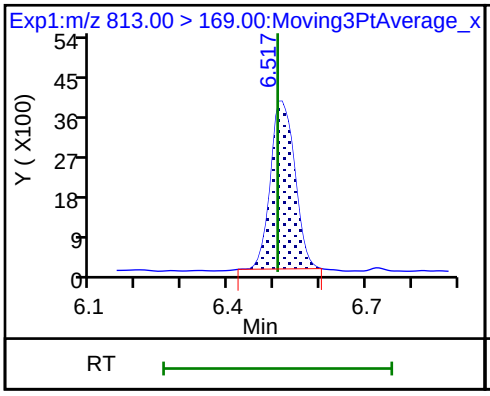
D 64 13C2 PFHxDA



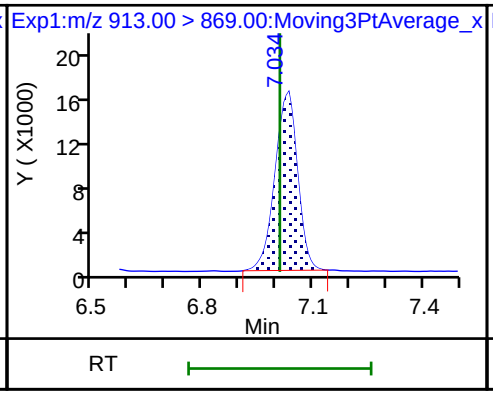
63 Perfluorohexadecanoic acid



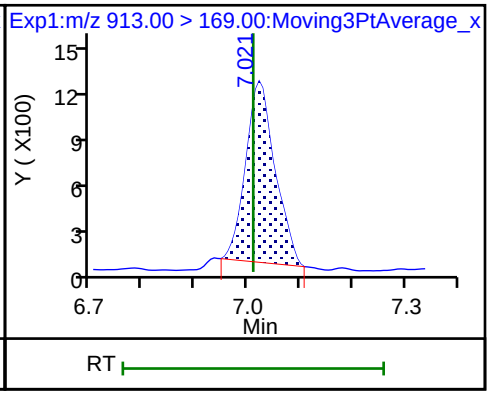
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

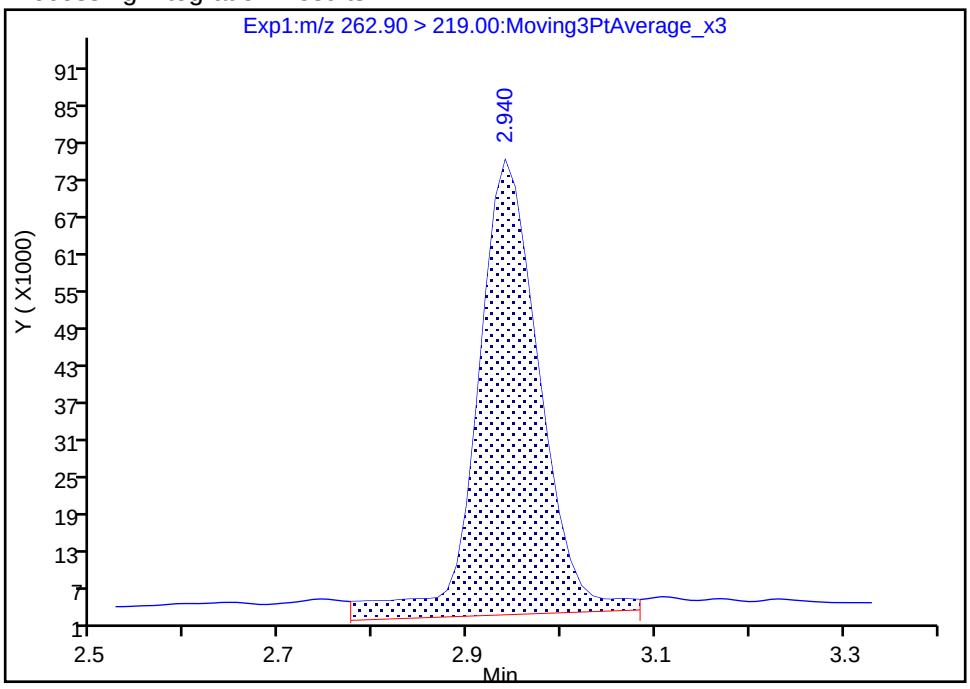
Data File:	\\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d				
Injection Date:	25-Aug-2020 16:52:21	Instrument ID:	A18		
Lims ID:	IC STD 2				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

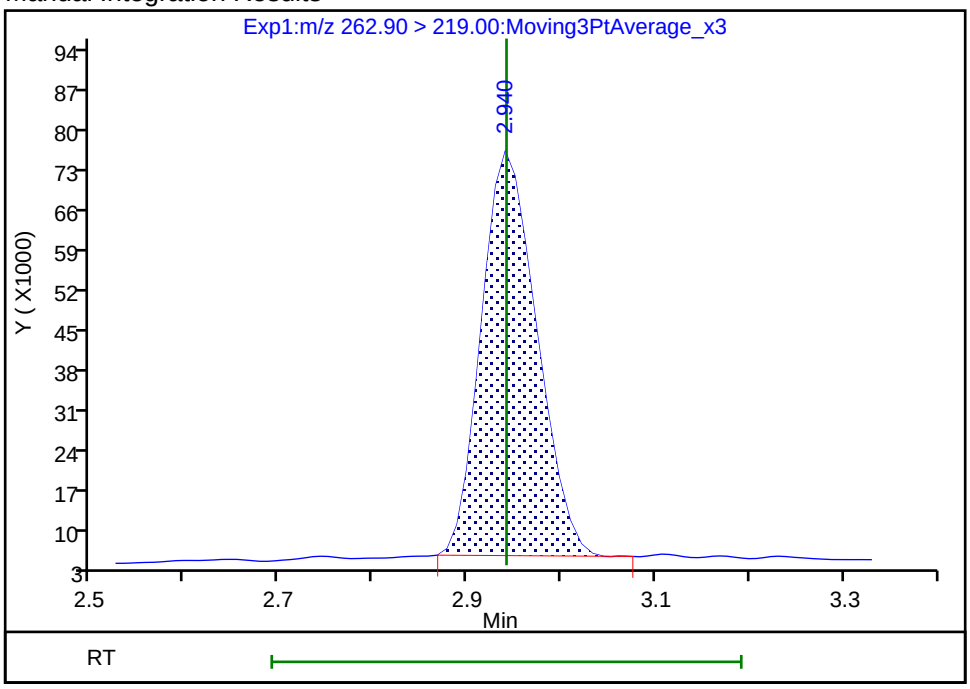
Processing Integration Results

RT: 2.94
Area: 335944
Amount: 0.056952
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 288057
Amount: 0.051714
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:52:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

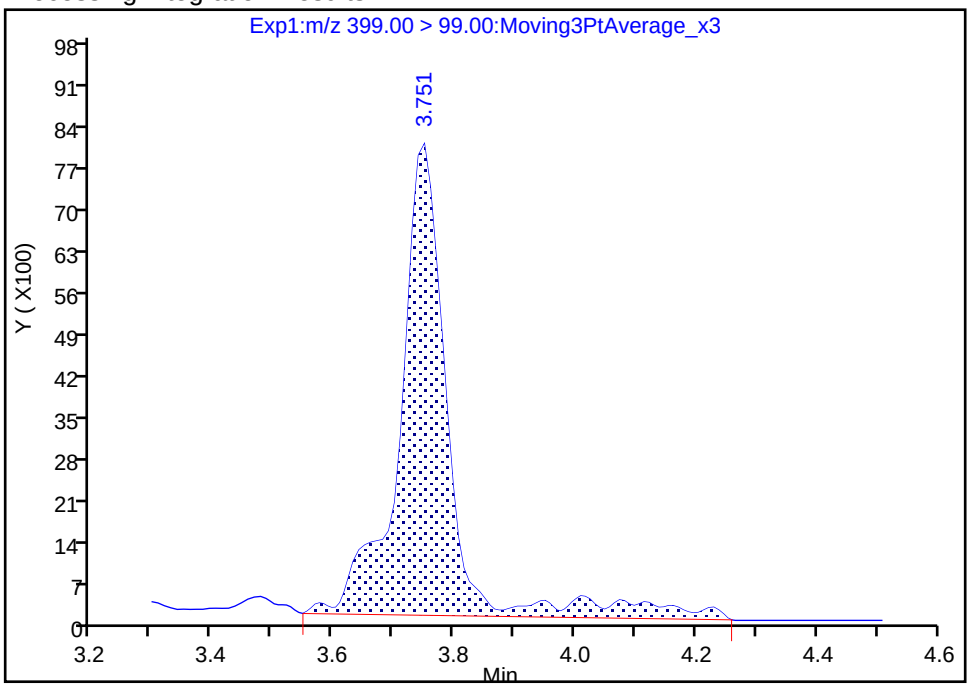
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

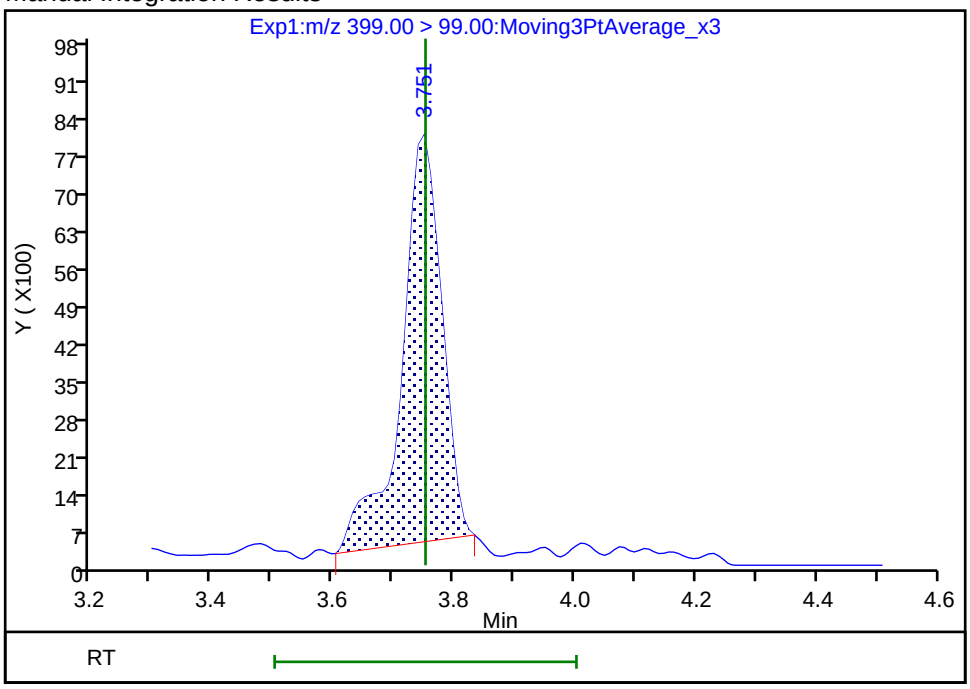
Processing Integration Results

RT: 3.75
Area: 44864
Amount: 0.046857
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 35066
Amount: 0.046857
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:52:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

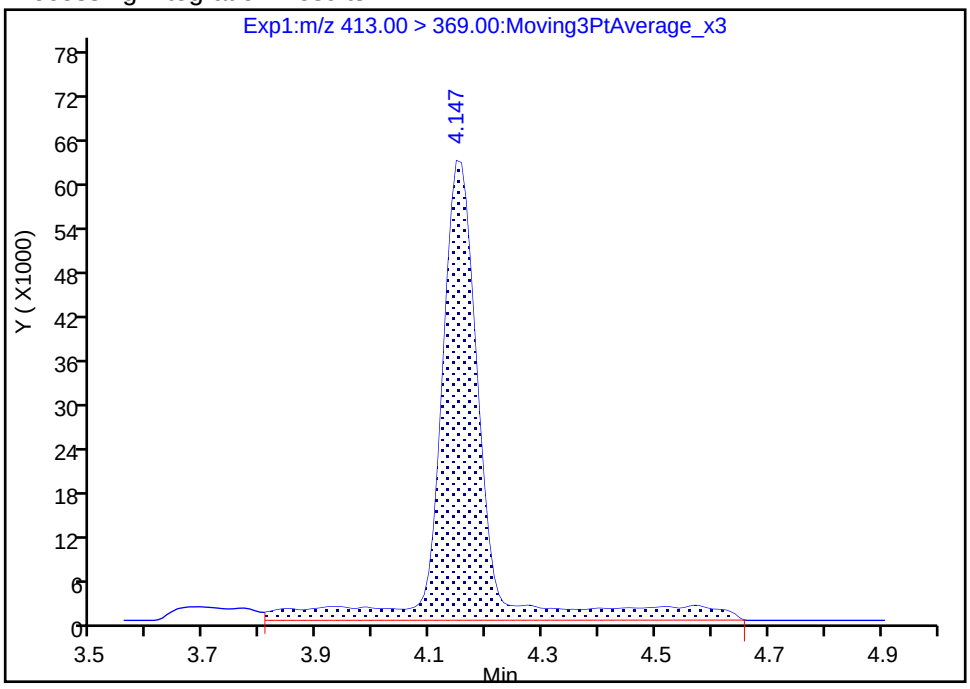
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

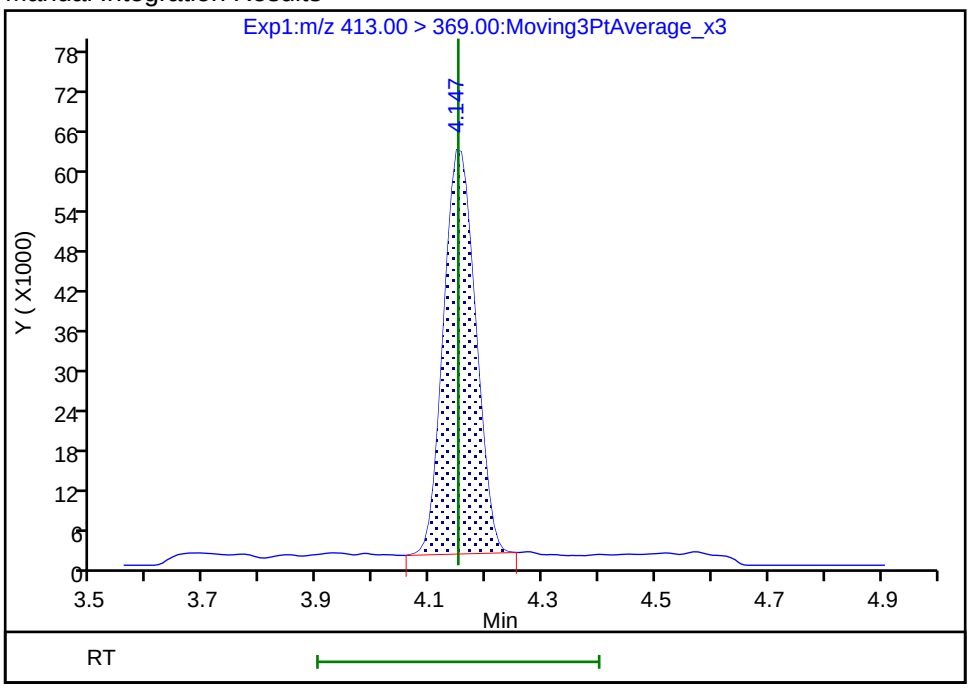
Processing Integration Results

RT: 4.15
Area: 321111
Amount: 0.063381
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 240184
Amount: 0.049674
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:53:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

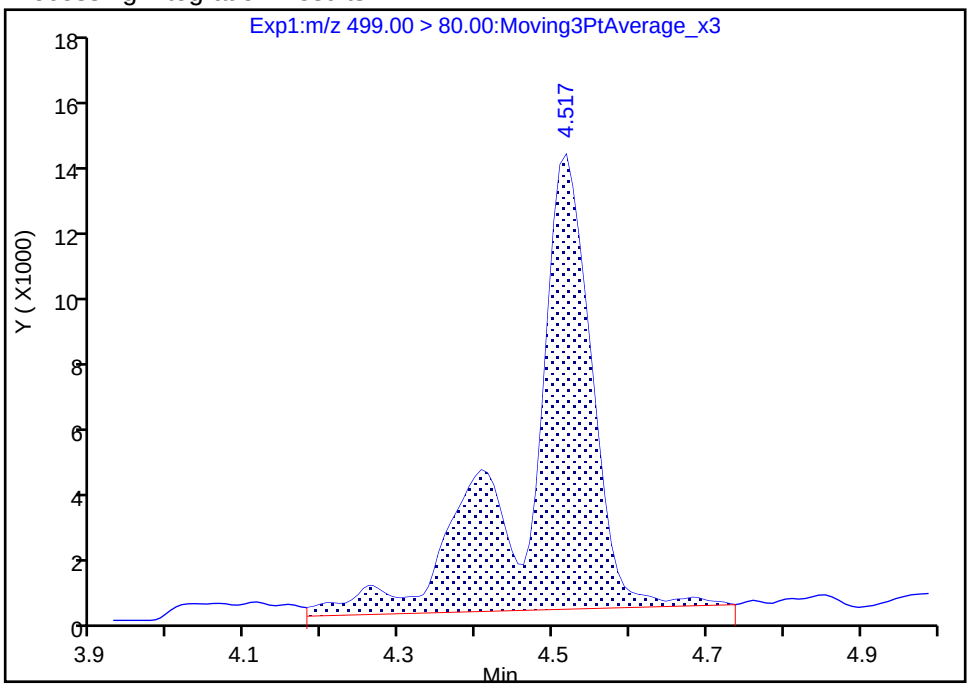
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

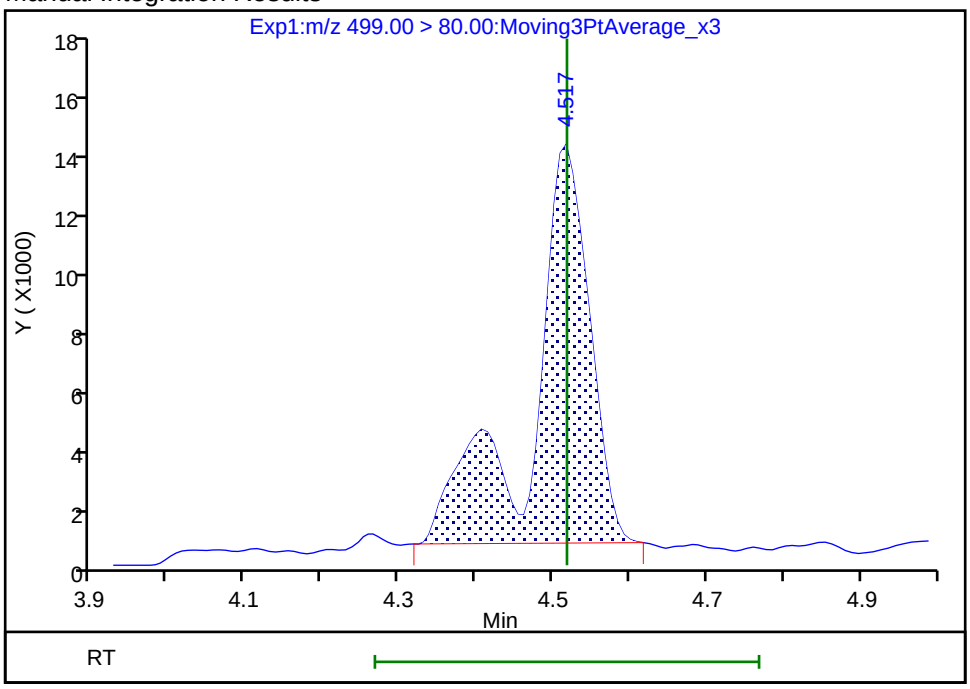
Processing Integration Results

RT: 4.52
Area: 83365
Amount: 0.051604
Amount Units: ng/ml



Manual Integration Results

RT: 4.52
Area: 70065
Amount: 0.043222
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:53:25
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

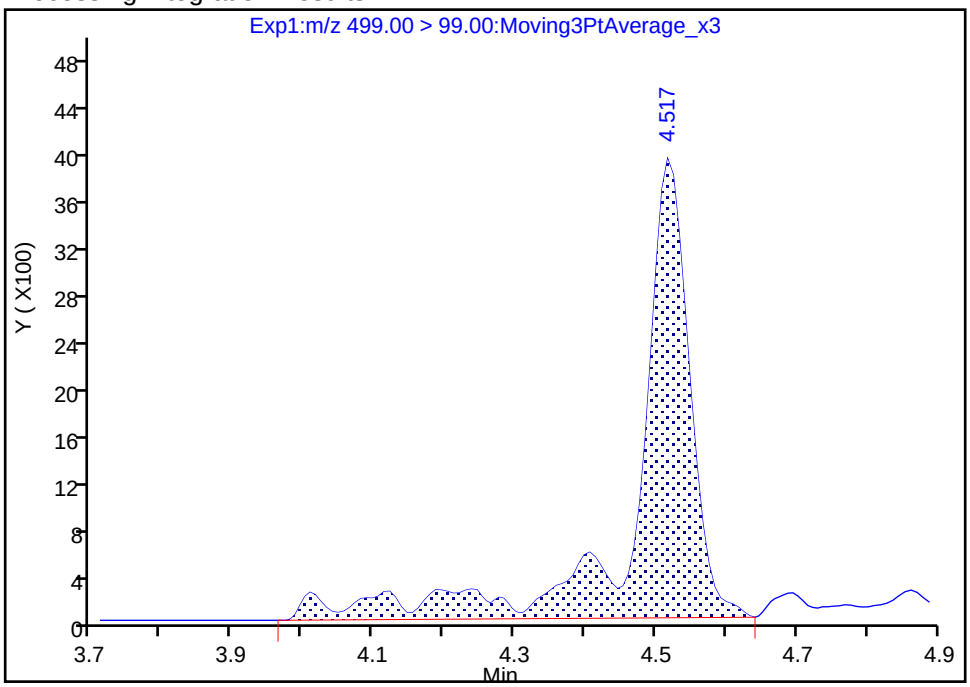
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

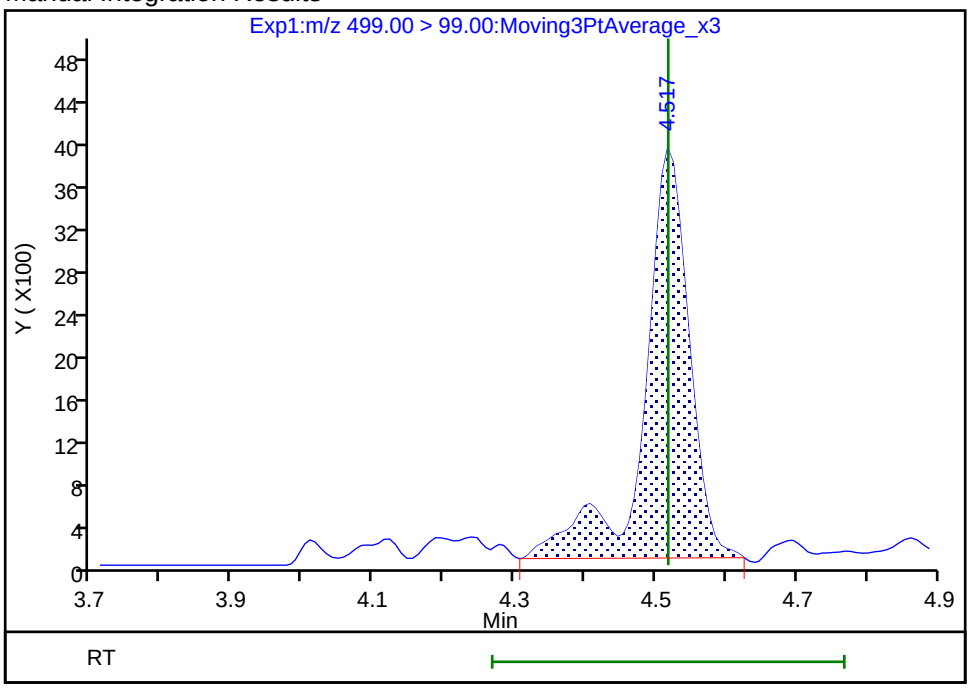
Processing Integration Results

RT: 4.52
Area: 21023
Amount: 0.051604
Amount Units: ng/ml



Manual Integration Results

RT: 4.52
Area: 16976
Amount: 0.043222
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:53:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

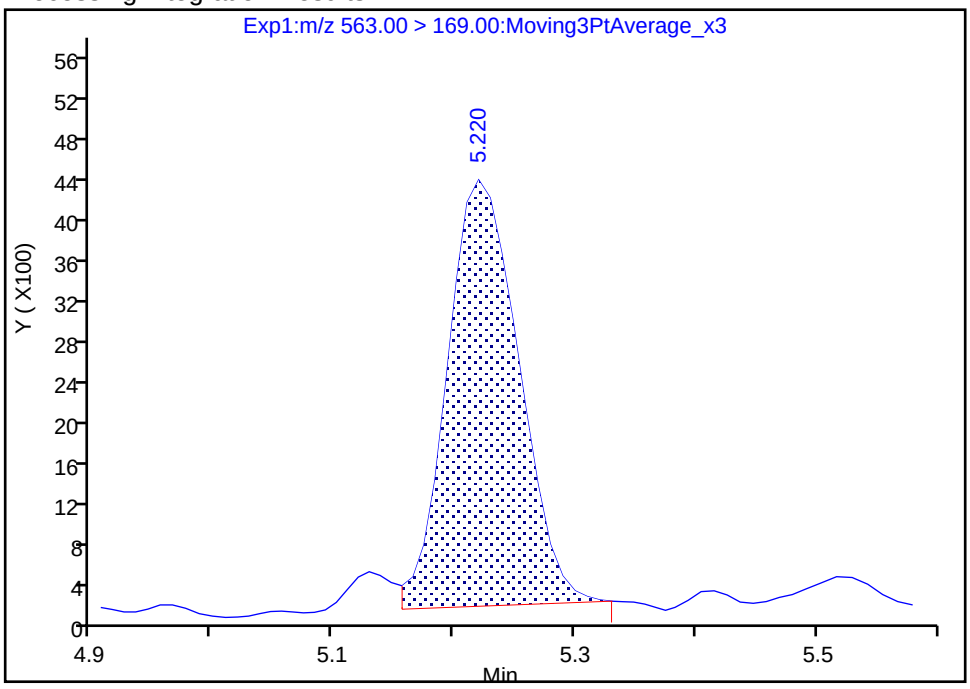
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

45 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

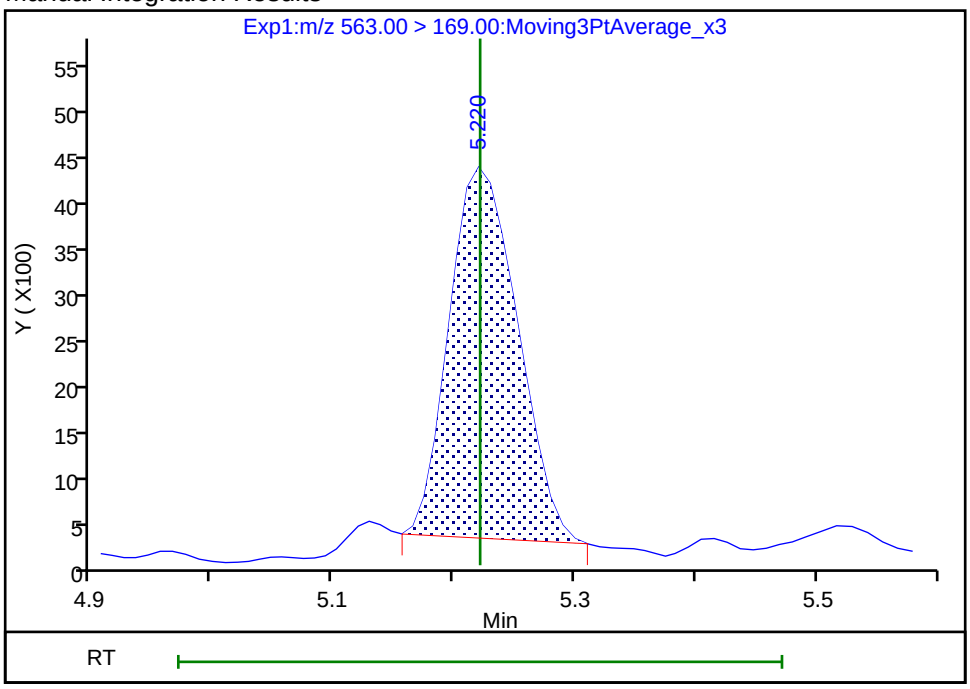
Processing Integration Results

RT: 5.22
Area: 17222
Amount: 0.043832
Amount Units: ng/ml



Manual Integration Results

RT: 5.22
Area: 15887
Amount: 0.043832
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:53:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

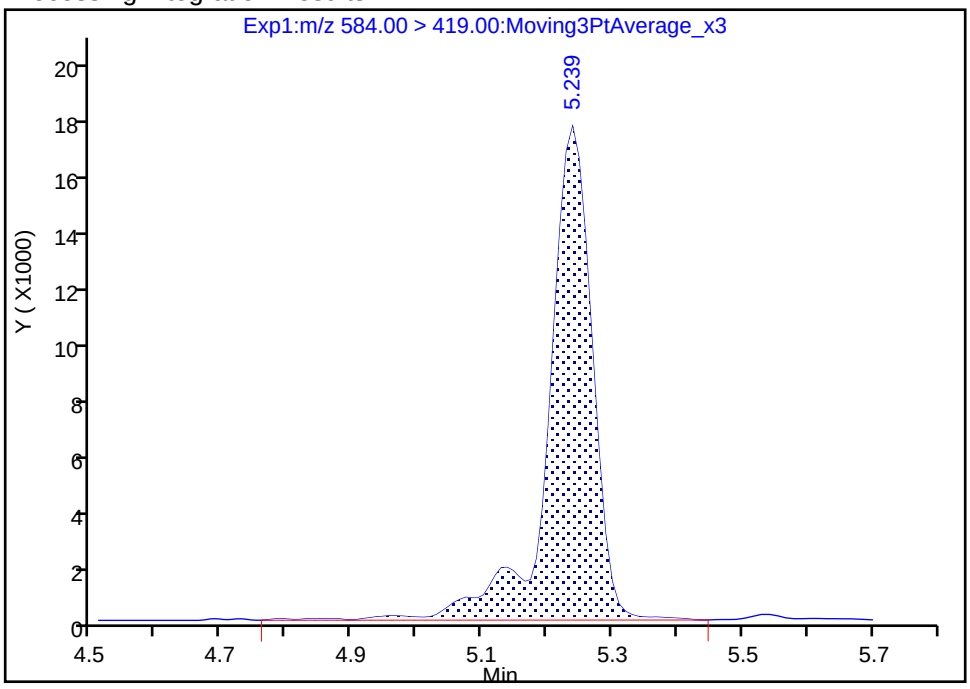
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

46 NEtFOSA, CAS: 2991-50-6

Signal: 1

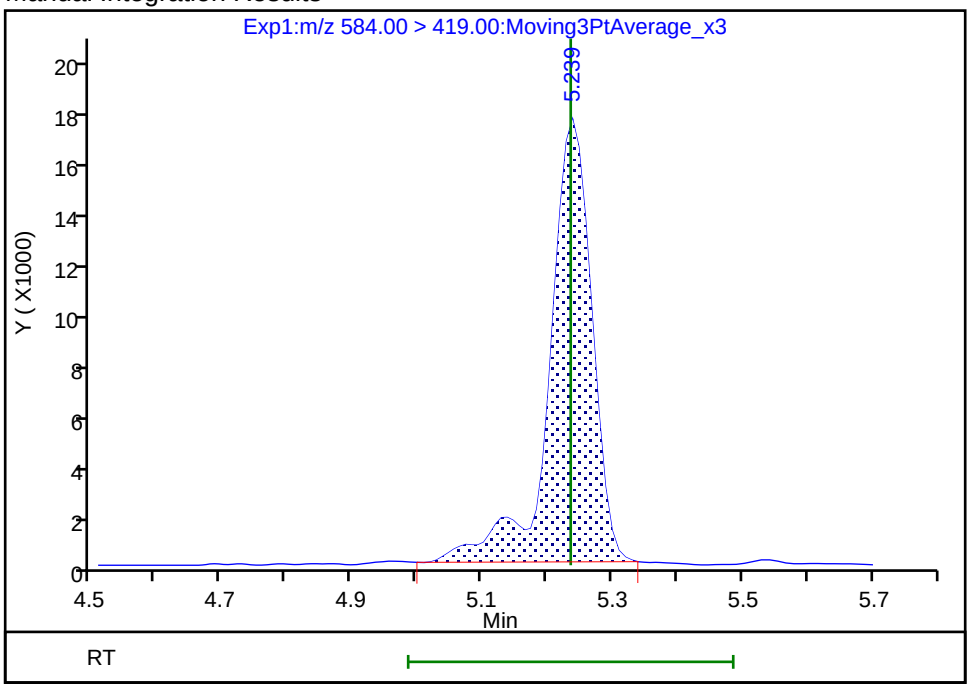
Processing Integration Results

RT: 5.24
Area: 80586
Amount: 0.044907
Amount Units: ng/ml



Manual Integration Results

RT: 5.24
Area: 76967
Amount: 0.043139
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:53:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

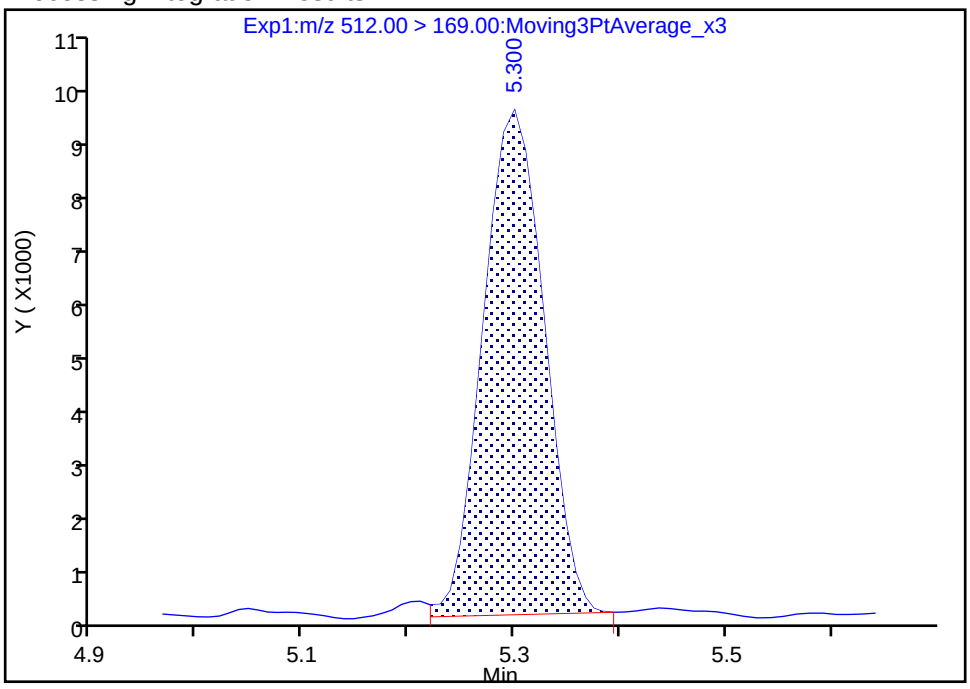
Data File:	\\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d				
Injection Date:	25-Aug-2020 16:52:21	Instrument ID:	A18		
Lims ID:	IC STD 2				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	7	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

50 NMeFOSA, CAS: 31506-32-8

Signal: 1

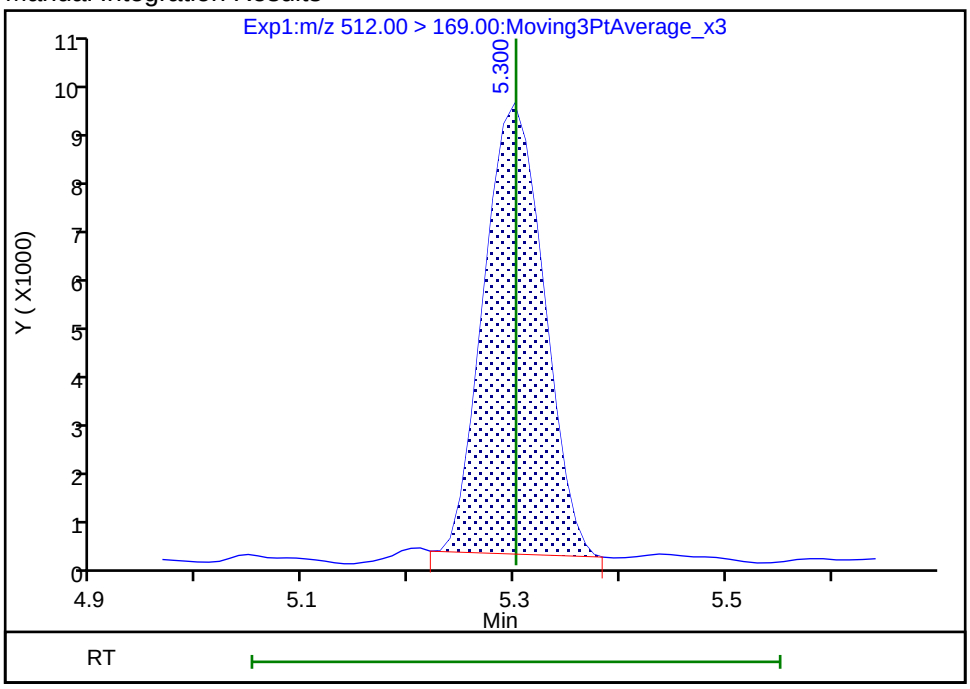
Processing Integration Results

RT: 5.30
Area: 37133
Amount: 0.045579
Amount Units: ng/ml



Manual Integration Results

RT: 5.30
Area: 35943
Amount: 0.044303
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:54:04

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

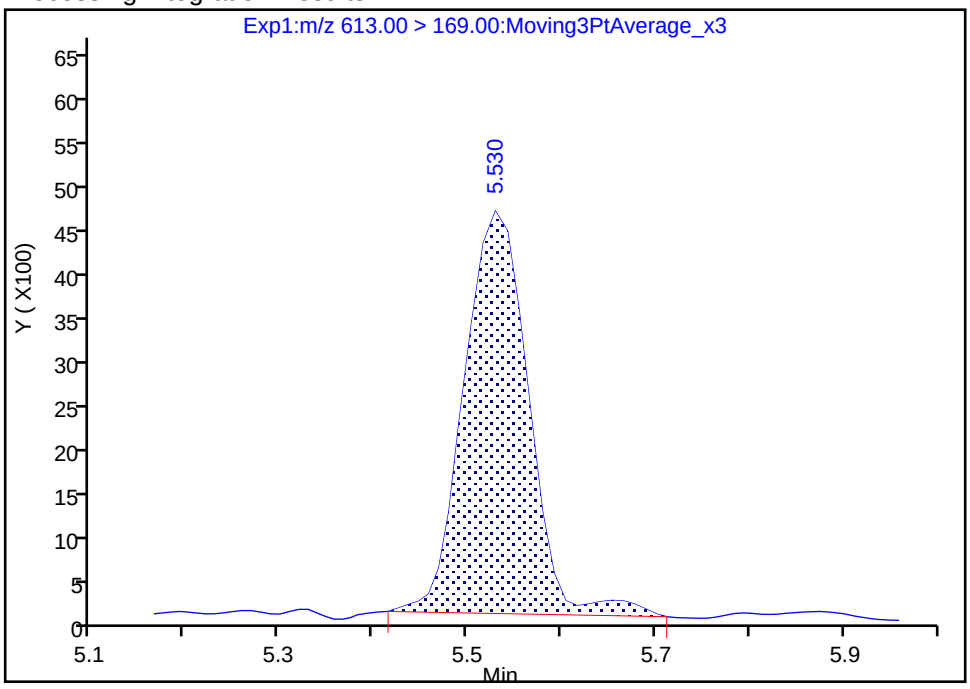
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_012.d
Injection Date: 25-Aug-2020 16:52:21 Instrument ID: A18
Lims ID: IC STD 2
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

57 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

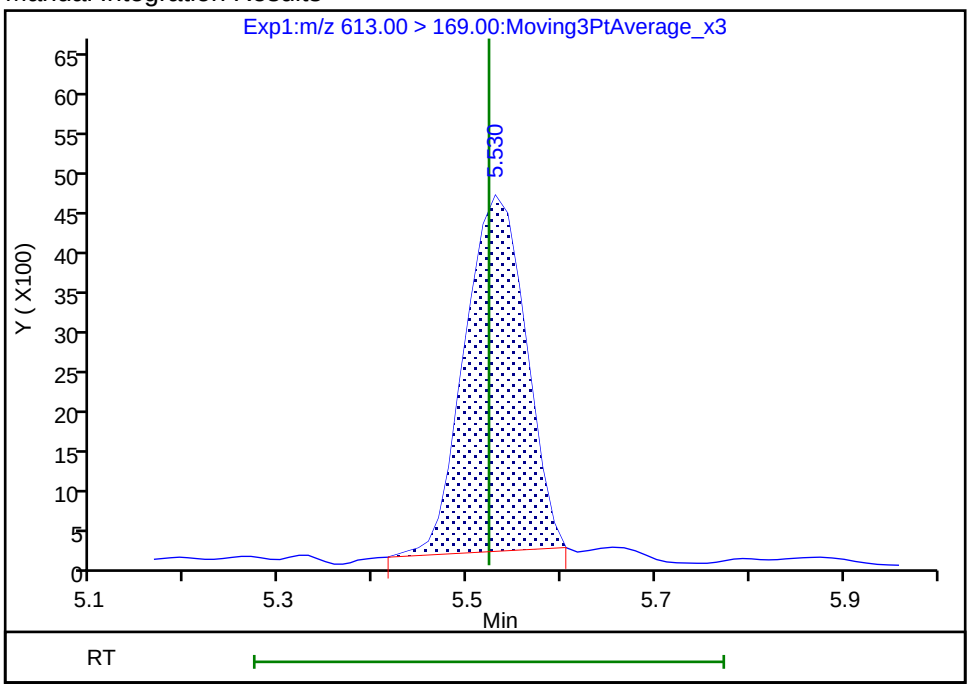
Processing Integration Results

RT: 5.53
Area: 21976
Amount: 0.049338
Amount Units: ng/ml



Manual Integration Results

RT: 5.53
Area: 20293
Amount: 0.047734
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:54:14
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_013.d
Lims ID: IC STD 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Aug-2020 17:01:30 ALS Bottle#: 8 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 3 (19)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:42:35 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 06:02:59
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.582	2.577	0.005	0.622	17572811	2.49		99.5	7917	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.582	2.580	0.002	1.000	1434703	0.2352		94.1	63.1	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.940	2.941	-0.001	1.000	1335754	0.2418		96.7	69.1	
D 4 13C5 PFPeA										
267.90 > 223.00	2.940	2.941	-0.001	0.709	13850765	2.52		101	7291	
D 9 13C3 PFBS										
301.90 > 80.00	2.974	2.977	-0.003	0.717	9949547	2.30		99.1	4253	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.986	2.982	0.004	1.004	877185	0.2030	Target=2.30	91.9	191	
298.90 > 99.00	2.986	2.982	0.004	1.004	389793		2.25(1.15-3.45)	91.9	158	
8 4:2 FTS										
327.00 > 307.00	3.288	3.288	0.0	1.000	554249	0.2192		93.9	3081	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.288	3.288	0.0	0.793	2597711	2.50		107	1106	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.331	3.334	-0.003	1.000	1281954	0.2313	Target=13.78	92.5	111	
313.00 > 119.00	3.331	3.334	-0.003	1.000	89809		14.27(6.89-20.66)	92.5	77.0	
D 11 13C2 PFHxA										
315.00 > 270.00	3.331	3.334	-0.003	0.803	14376817	2.62		105	7057	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.352	3.349	0.003	1.127	784647	0.2314	Target=3.02	98.7	181	
349.00 > 99.00	3.352	3.349	0.003	1.127	257817		3.04(1.51-4.52)	98.7	225	
13 HPFO-DA										
285.00 > 169.00	3.458	3.463	-0.005	1.000	248757	0.2278		91.1	990	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.458	3.463	-0.005	0.834	2802026	2.50		99.8	8835	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.750	3.750	0.0	1.000	1185266	0.2383	Target=3.84	95.3	153	
363.00 > 169.00	3.750	3.750	0.0	1.000	312608		3.79(1.92-5.76)	95.3	224	
D 18 13C4 PFHpA										
367.00 > 322.00	3.750	3.750	0.0	0.904	12267287	2.62		105	10130	
D 17 18O2 PFHxS										
403.00 > 84.00	3.750	3.752	-0.002	0.904	5387347	2.36		99.9	6409	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.750	3.752	-0.002	1.000	610412	0.2268	Target=3.50	99.7	232	
399.00 > 99.00	3.750	3.752	-0.002	1.000	167489		3.64(1.75-5.25)	99.7	160	
19 DONA										
377.00 > 251.00	3.799	3.800	-0.001	0.841	3498730	0.2369	Target=2.42	101	2909	
377.00 > 85.00	3.799	3.800	-0.001	0.841	1389149		2.52(1.21-3.63)	101	1936	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.124	4.127	-0.003	0.994	2185821	2.50		105	1467	
21 6:2 FTS										
427.00 > 407.00	4.124	4.127	-0.003	1.000	473474	0.2238		94.4	756	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.140	4.143	-0.003	0.916	400864	0.2328	Target=4.40	97.8	187	
449.00 > 99.00	4.140	4.143	-0.003	0.916	92595		4.33(2.20-6.60)	97.8	148	
D 25 13C4 PFOA										
417.00 > 372.00	4.148	4.150	-0.002	1.000	11949440	2.68		107	6114	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.148	4.150	-0.002	1.000	1137192	0.2332	Target=2.94	93.3	209	
413.00 > 169.00	4.156	4.150	0.006	1.002	349089		3.26(1.47-4.41)	93.3	624	
$ 26 13C8 PFOA										
421.00 > 376.00	4.140	4.147	-0.007	0.998	7599439	2.52		103	7784	
* 23 13C2 PFOA										
415.00 > 370.00	4.148	4.151	-0.003		11144889	2.50			9184	
$ 28 13C8 PFOS										
507.00 > 99.00	4.510	4.514	-0.004	1.087	1162967	2.41		101	2954	
D 27 13C4 PFOS										
503.00 > 80.00	4.518	4.516	0.002	1.089	3683093	2.38		99.8	1487	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.518	4.518	0.0	1.000	359317	0.2253	Target=4.53	97.1	116	M
499.00 > 99.00	4.510	4.518	-0.008	0.998	77031		4.66(2.26-6.79)	97.1	142	
D 30 13C5 PFNA										
468.00 > 423.00	4.535	4.533	0.002	1.093	8965418	2.49		99.8	7906	
31 Perfluorononanoic acid										
463.00 > 419.00	4.526	4.537	-0.011	0.998	889961	0.2588	Target=8.97	104	159	
463.00 > 169.00	4.535	4.537	-0.002	1.000	102571		8.68(4.48-13.45)	104	160	
32 9ClFOS										
531.00 > 351.00	4.724	4.724	0.0	1.046	1121719	0.2249		96.5	3320	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.829	4.830	-0.001	1.000	562825	0.2457		98.3	1822	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 33 13C8 FOSA										
506.00 > 78.00	4.829	4.830	-0.001	1.164	6153721	2.47		98.8	4973	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.864	4.868	-0.004	1.076	369502	0.2559	Target=2.85	107	250	
549.00 > 99.00	4.864	4.868	-0.004	1.076	124715		2.96(1.43-4.28)	107	259	
D 39 13C2 PFDA										
515.00 > 470.00	4.890	4.892	-0.002	1.179	8286827	2.37		95.0	8665	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.890	4.896	-0.006	1.000	802442	0.2511	Target=10.16	100	313	
513.00 > 169.00	4.898	4.896	0.002	1.002	76672		10.47(5.08-15.24)	100	111	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.898	4.897	0.001	1.181	3354161	2.67		111	2326	
36 8:2 FTS										
527.00 > 507.00	4.898	4.898	0.0	1.000	556880	0.2240		93.5	2867	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.057	5.062	-0.005	1.219	5800390	2.48		99.0	4661	
41 NMeFOSAA										M
570.00 > 419.00	5.066	5.065	0.001	1.002	402573	0.2339		93.6	483	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.193	5.191	0.002	1.149	305989	0.2378	Target=2.77	98.7	268	
599.00 > 99.00	5.193	5.191	0.002	1.149	108636		2.82(1.38-4.15)	98.7	384	
D 43 13C2 PFUnA										
565.00 > 520.00	5.219	5.221	-0.002	1.258	8931580	2.58		103	7066	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.219	5.221	-0.002	1.000	603692	0.2330	Target=8.43	93.2	295	
563.00 > 169.00	5.219	5.221	-0.002	1.000	79029		7.64(4.22-12.65)	93.2	98.8	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.229	5.227	0.002	1.261	6561199	2.65		106	4901	
46 NEtFOSA										
584.00 > 419.00	5.238	5.236	0.002	1.002	391811	0.2209		88.4	5063	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.268	5.272	-0.004	1.270	7614914	12.3		98.7	2969	
48 N-MeFOSE-M										
616.00 > 59.00	5.279	5.285	-0.006	1.002	159827	0.2430		97.2	255	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.289	5.295	-0.006	1.275	2040174	2.33		93.2	51.1	
50 NMeFOSA										
512.00 > 169.00	5.299	5.301	-0.002	1.002	187901	0.2397		95.9	341	
51 11ClFOS										
631.00 > 451.00	5.367	5.363	0.004	1.188	1385108	0.2191		93.0	2951	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.437	5.443	-0.006	1.311	8964785	11.8		94.7	1648	
53 N-EtFOSE-M										
630.00 > 59.00	5.459	5.456	0.003	1.004	203478	0.2644		106	216	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.469	5.471	-0.002	1.318	2086889	2.33		93.1	344	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.480	5.480	0.0	1.002	215981	0.2445		97.8	249	
D 56 13C2 PFDoA										
615.00 > 570.00	5.530	5.521	0.009	1.333	8986881	2.64		105	8149	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.530	5.523	0.007	1.000	952853	0.2592	Target=9.12	104	495	
613.00 > 169.00	5.530	5.523	0.007	1.000	91590		10.40(4.56-13.69)	104	213	
58 10:2 FTS										
627.00 > 607.00	5.543	5.541	0.002	1.132	671004	0.2379		98.7	4175	
59 PFDoS										
699.00 > 80.00	5.755	5.751	0.004	1.274	115329	0.2248	Target=0.72	92.9	140	
699.00 > 99.00	5.755	5.751	0.004	1.274	165533		0.70(0.36-1.07)	92.9	957	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.802	5.795	0.007	1.049	777286	0.2298	Target=6.78	91.9	563	
663.00 > 169.00	5.793	5.795	-0.002	1.048	113105		6.87(3.39-10.17)	91.9	256	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.043	6.038	0.005	1.457	6789692	2.41		96.5	9281	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.043	6.041	0.002	1.000	59784	0.2608	Target=0.85	104	358	
713.00 > 219.00	6.032	6.041	-0.009	0.998	79011		0.76(0.43-1.28)	104	632	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.510	6.505	0.005	1.569	4839549	2.35		94.0	4730	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.504	6.507	-0.003	0.999	476686	0.2568	Target=10.21	103	406	
813.00 > 169.00	6.504	6.507	-0.003	0.999	47167		10.11(5.11-15.32)	103	356	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	7.021	7.009	0.012	1.078	310536	0.2429	Target=12.45	97.2	352	
913.00 > 169.00	7.014	7.009	0.005	1.077	24817		12.51(6.22-18.67)	97.2	320	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00019 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:42:36 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_013.d

Injection Date: 25-Aug-2020 17:01:30 Instrument ID: A18

Lims ID: IC STD 3

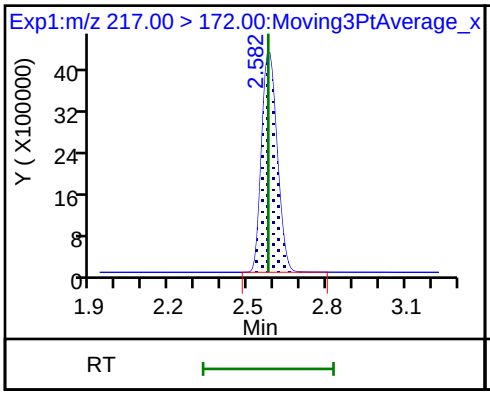
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 8 Worklist Smp#: 4

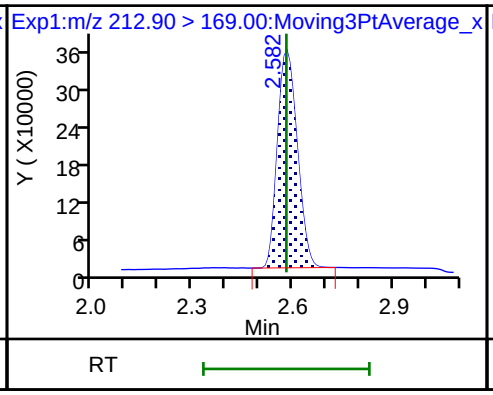
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

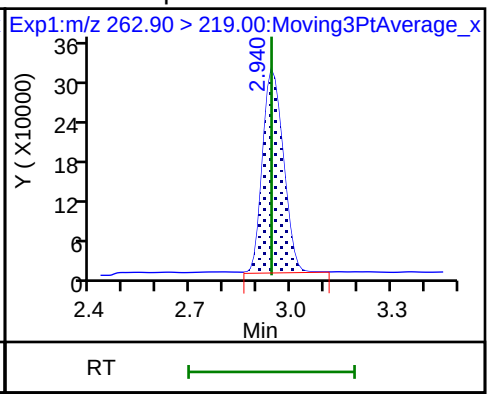
D 1 13C4 PFBA



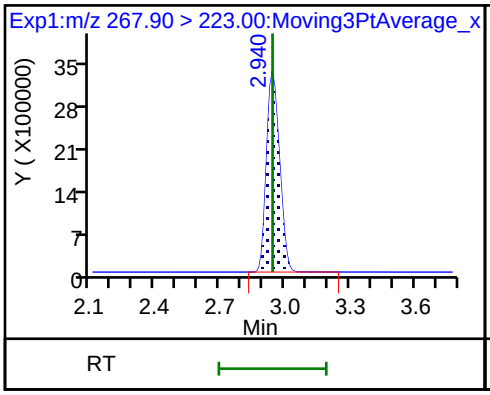
2 Perfluorobutanoic acid



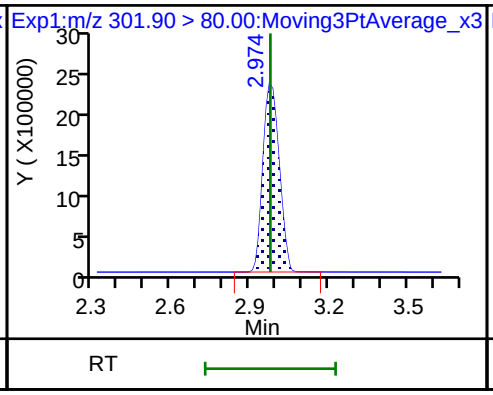
5 Perfluoropentanoic acid



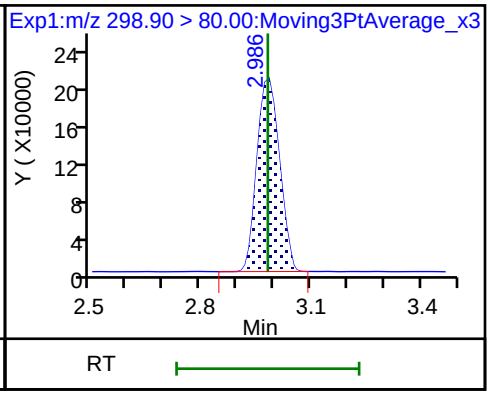
D 4 13C5 PFPeA



D 9 13C3 PFBS



6 Perfluorobutanesulfonic acid



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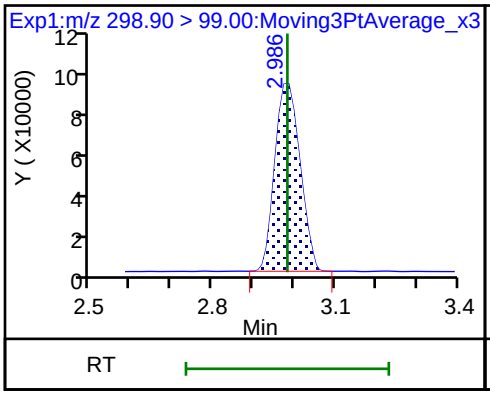
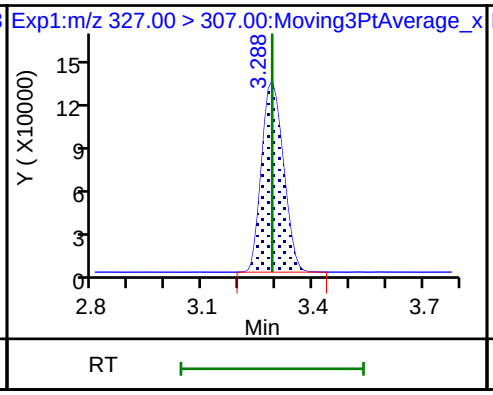
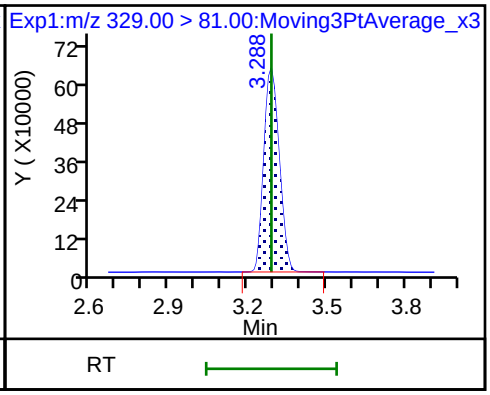


8 4:2 FTS



D 7 M2-4:2 FTS



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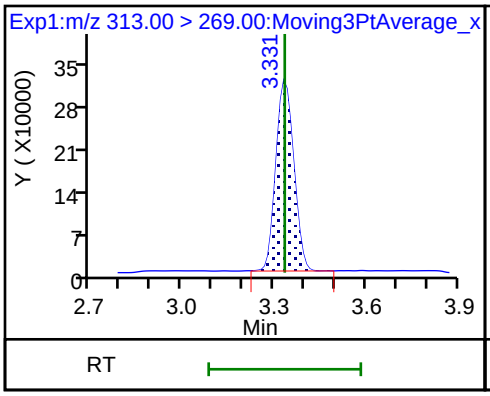

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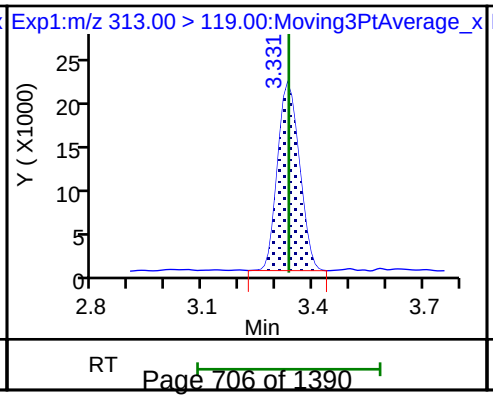
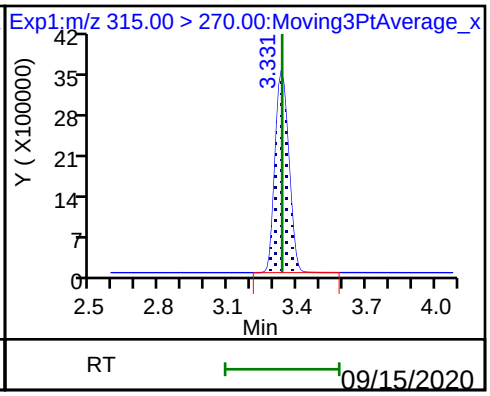
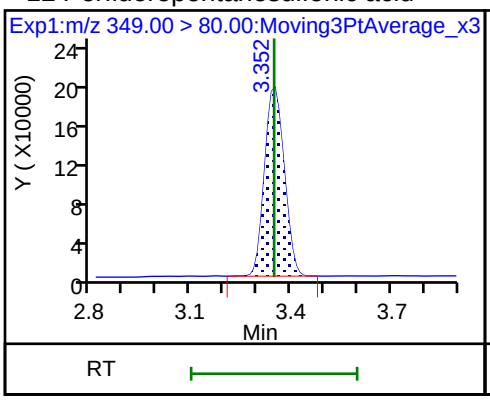


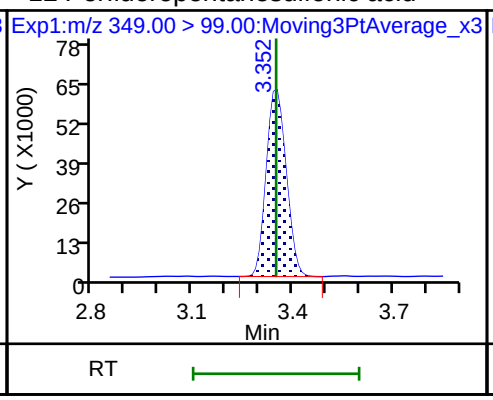
D 11 13C2 PFHxA



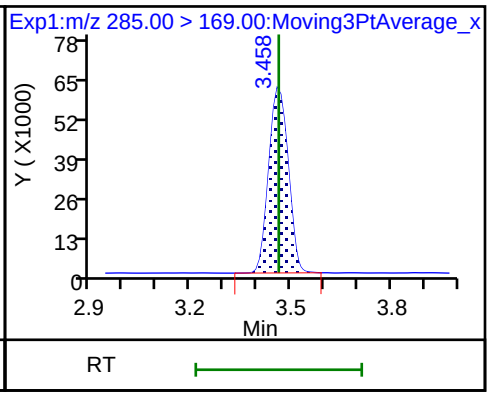
12 Perfluoropentanesulfonic acid



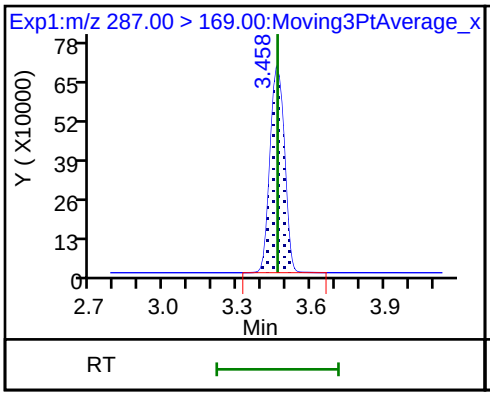
12 Perfluoropentanesulfonic acid



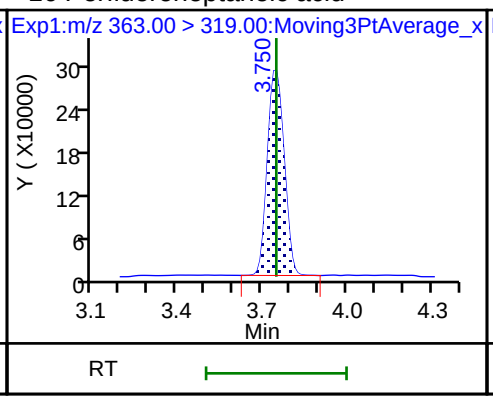
13 HPFO-DA



D 14 13C3 HFPO-DA



16 Perfluoroheptanoic acid



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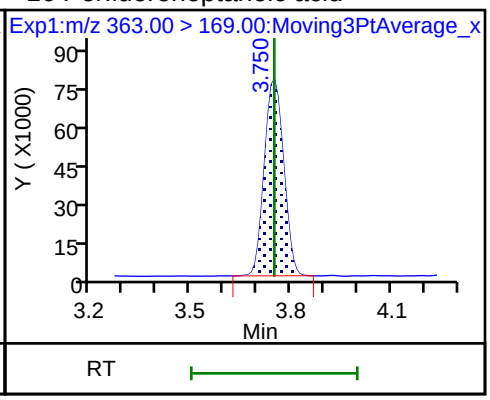
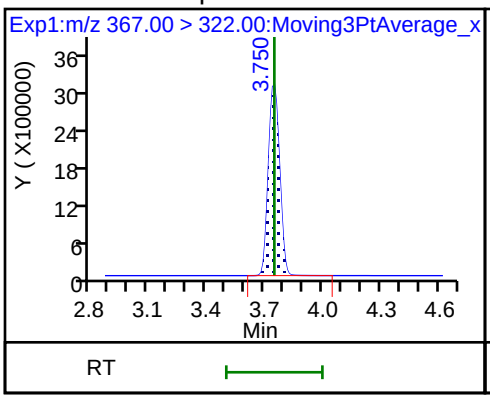


D 18 13C4 PFHpA



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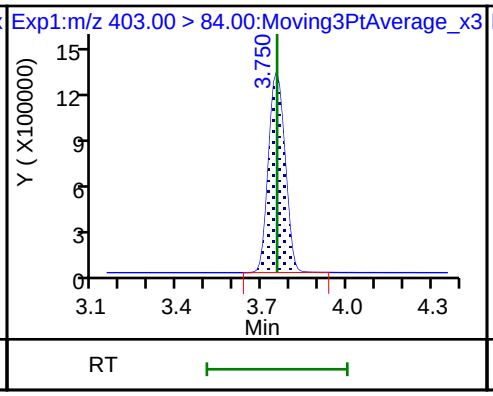
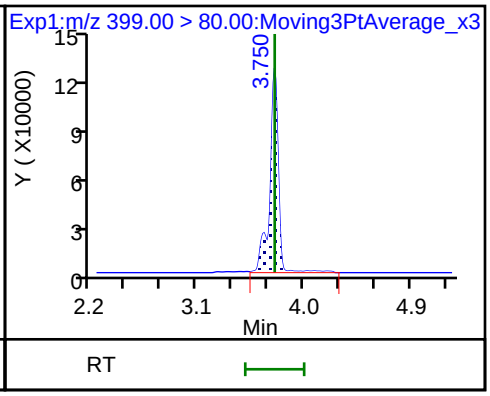
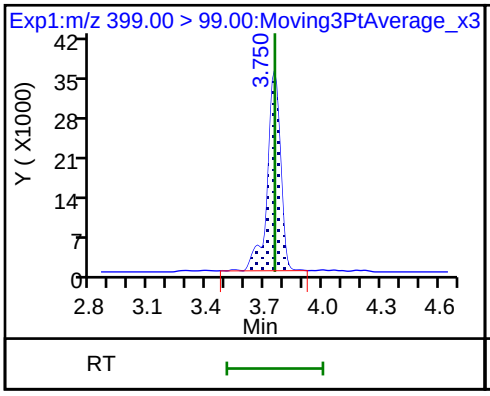


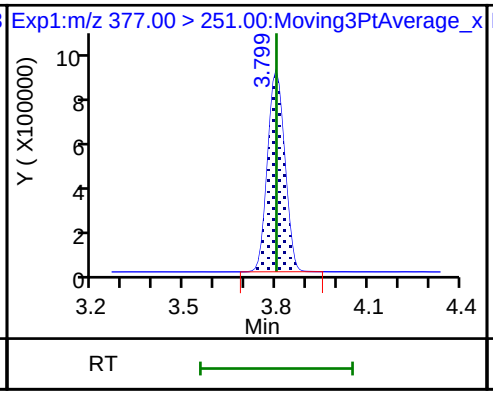
15 Perfluorohexanesulfonic acid



15 Perfluorohexanesulfonic acid



19 DONA



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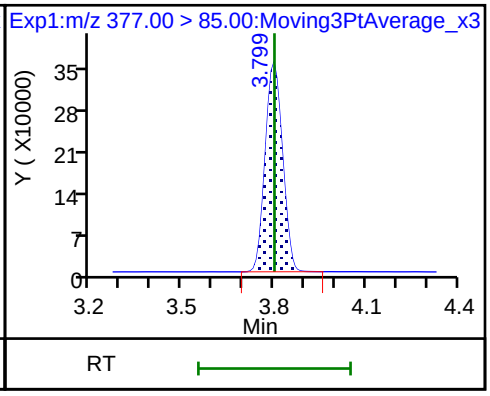
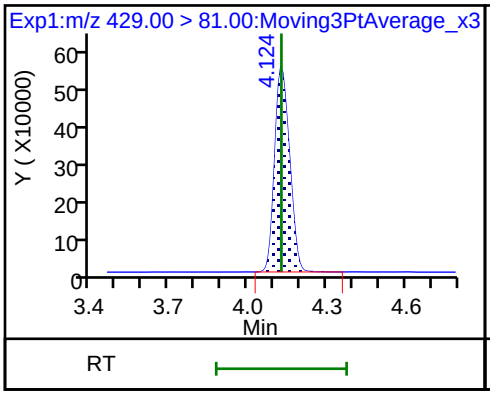
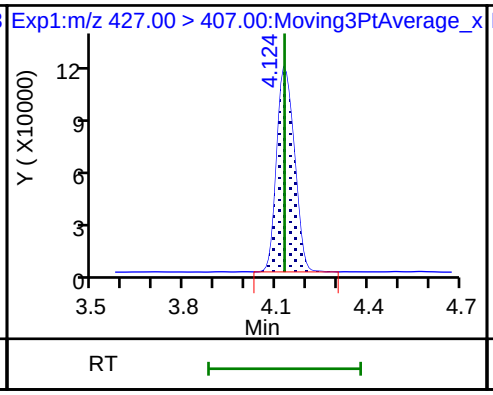


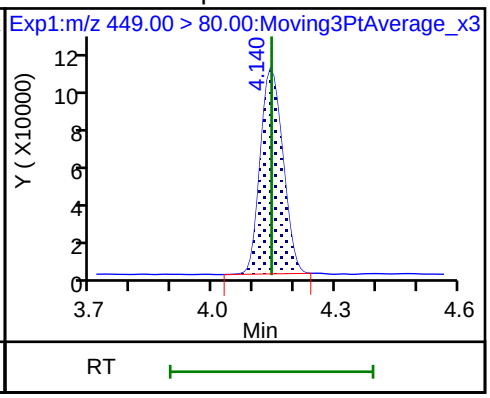
D 20 M2-6:2 FTS



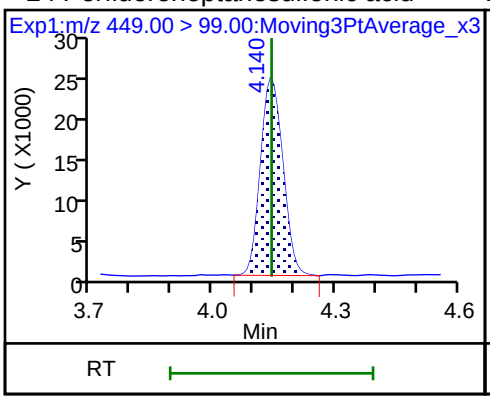
21 6:2 FTS



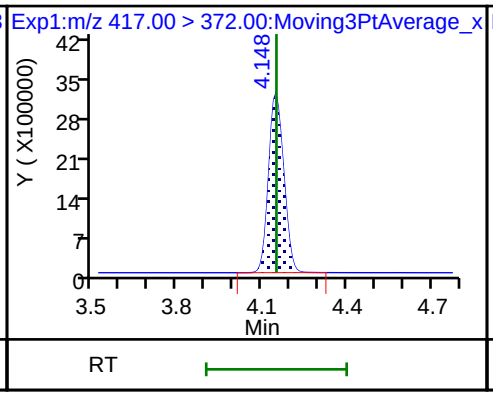
24 Perfluoroheptanesulfonic acid



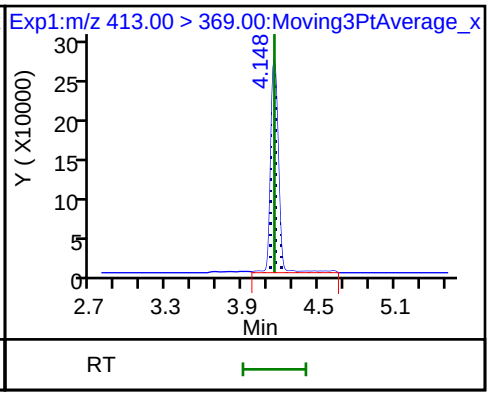
24 Perfluoroheptanesulfonic acid



D 25 13C4 PFOA



22 Perfluorooctanoic acid



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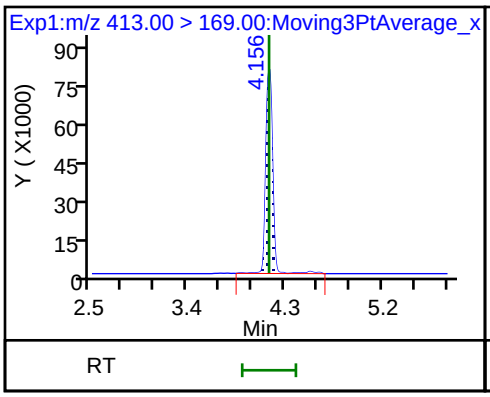
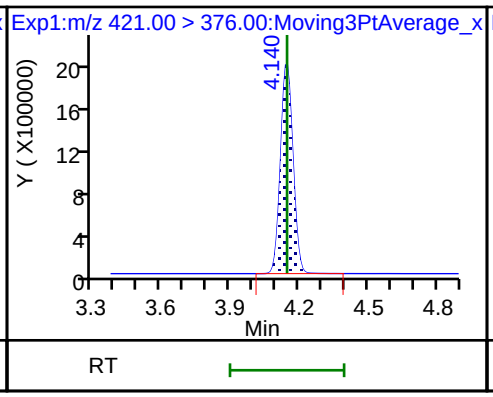
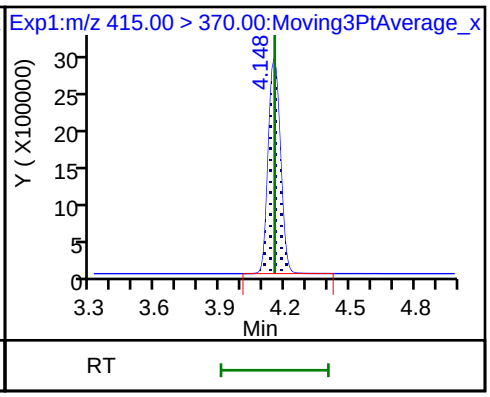


$ 26 13C8 PFOA



* 23 13C2 PFOA



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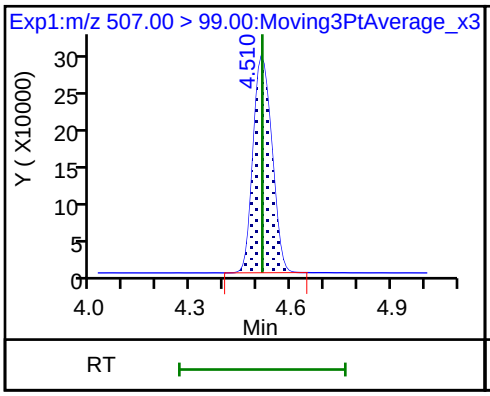

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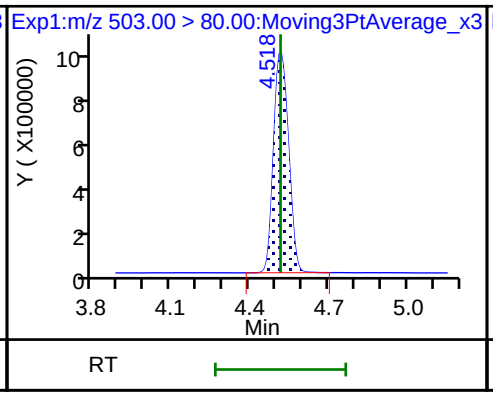
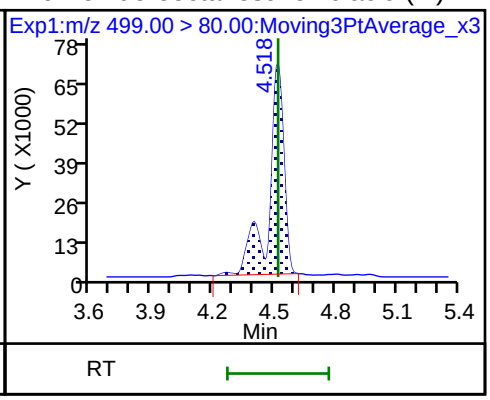
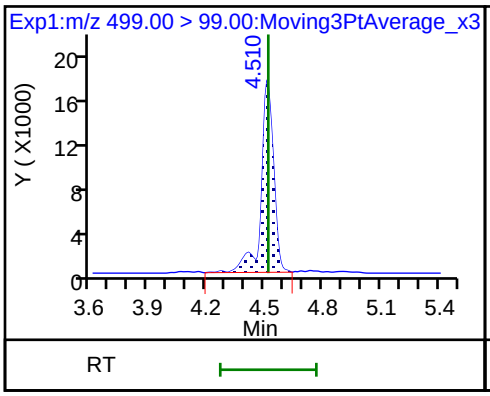


29 Perfluorooctanesulfonic acid (M)



29 Perfluorooctanesulfonic acid



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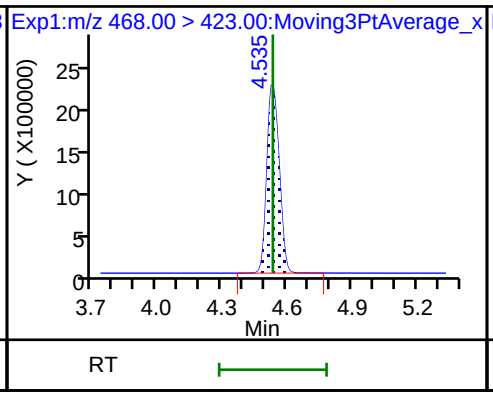
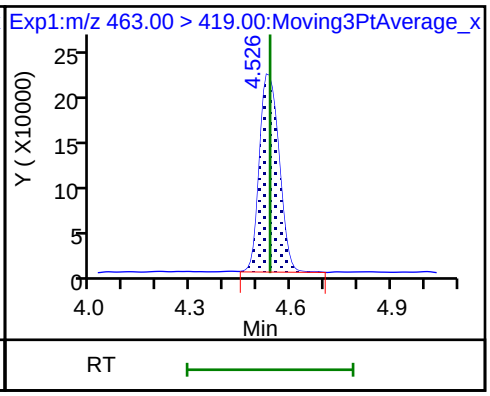
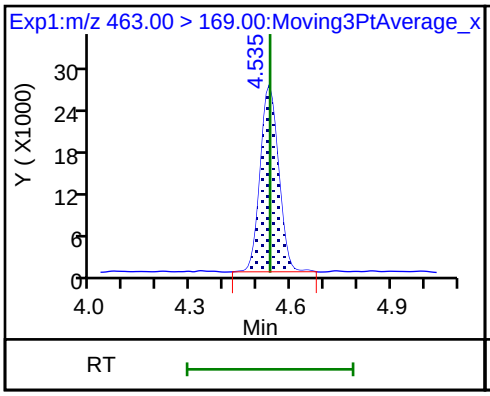


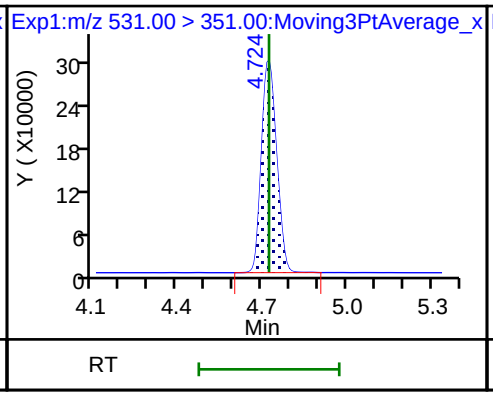
31 Perfluorononanoic acid



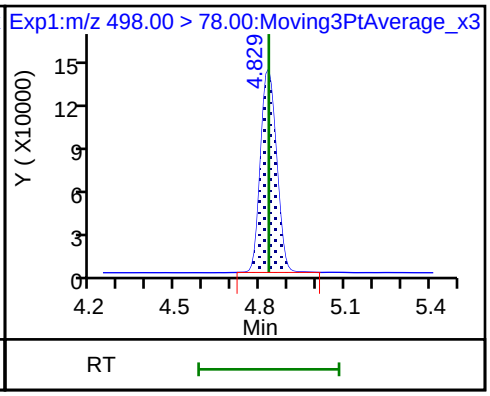
31 Perfluorononanoic acid



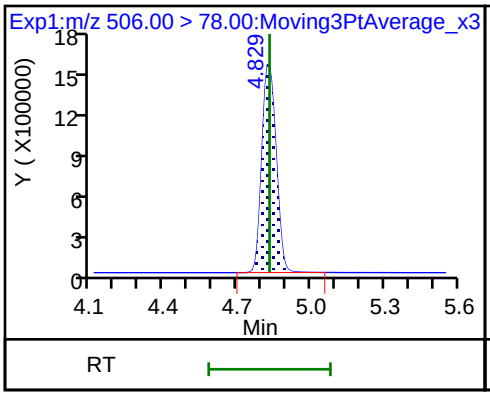
32 9ClFOS



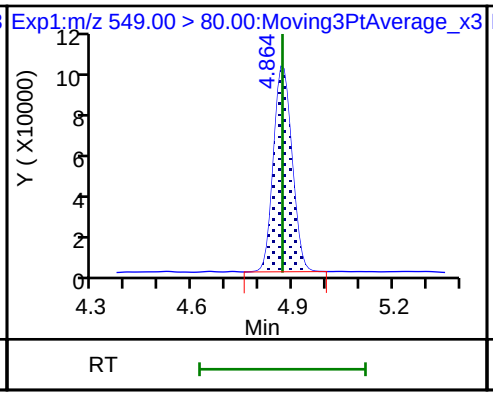
34 Perfluorooctanesulfonamide



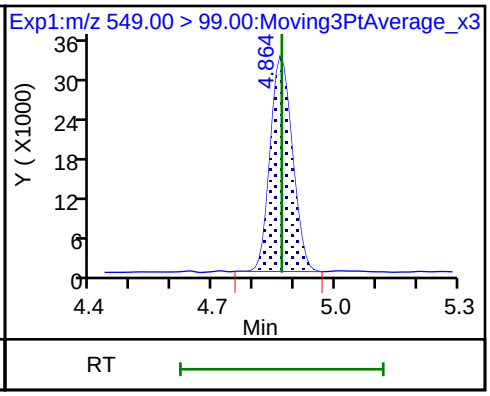
D 33 13C8 FOSA



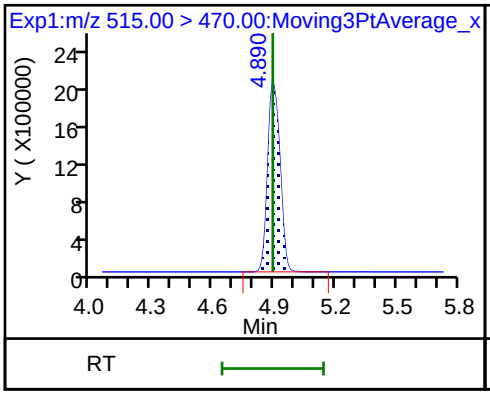
35 Perfluorononanesulfonic acid



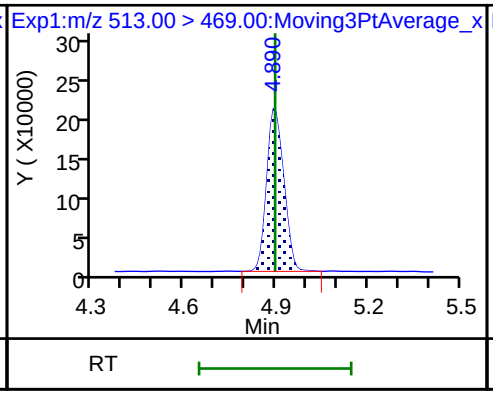
35 Perfluorononanesulfonic acid



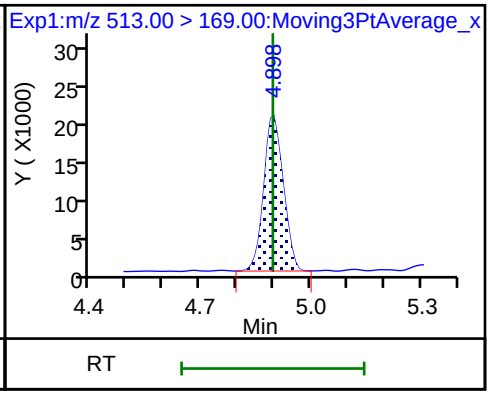
D 39 13C2 PFDA



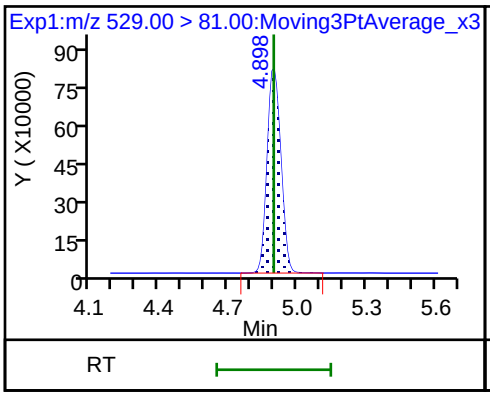
37 Perfluorodecanoic acid



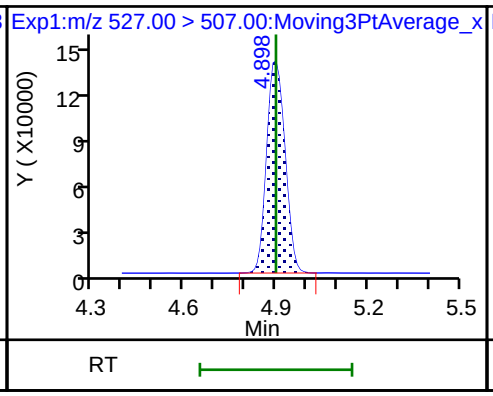
37 Perfluorodecanoic acid



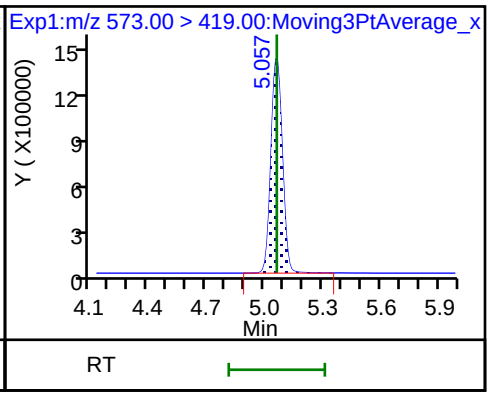
D 38 M2-8:2 FTS



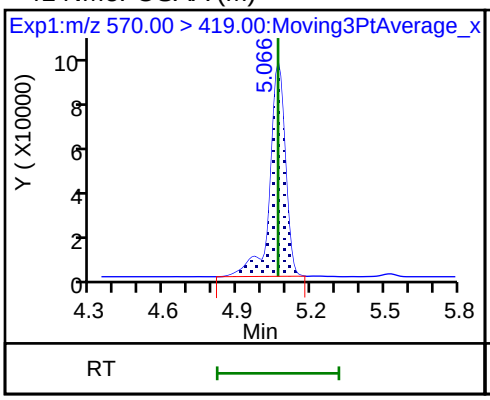
36 8:2 FTS



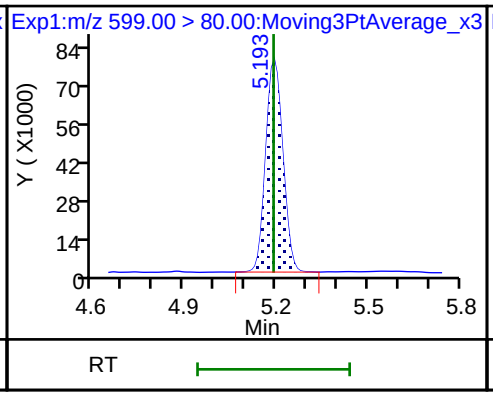
D 40 d3-NMeFOSAA



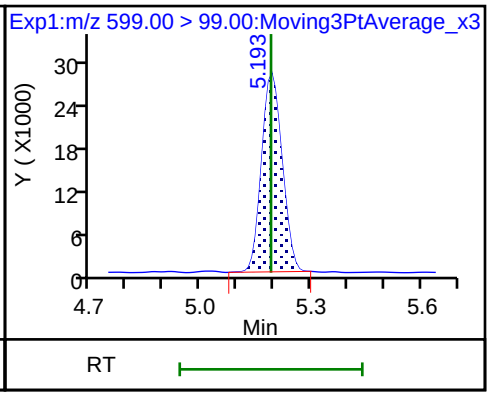
41 NMeFOSAA (M)



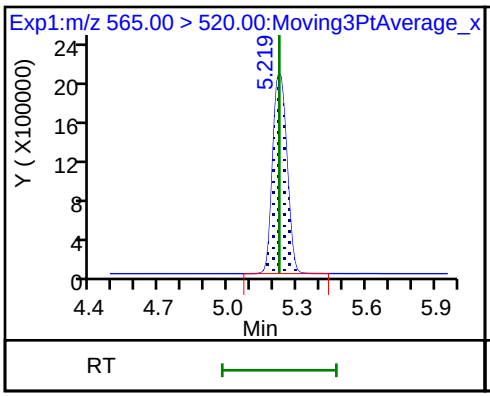
42 Perfluorodecanesulfonic acid



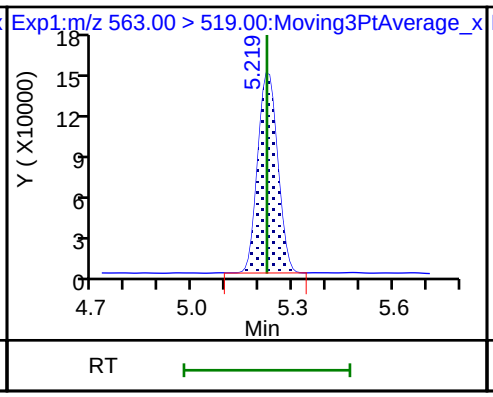
42 Perfluorodecanesulfonic acid



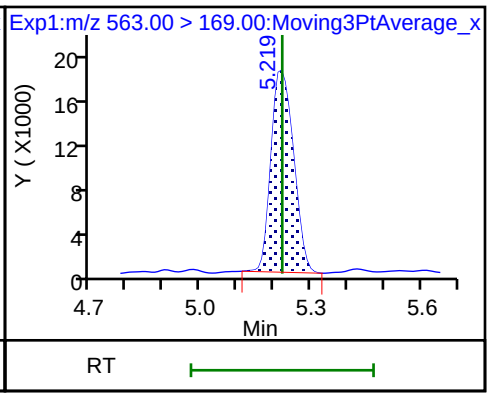
D 43 13C2 PFUnA



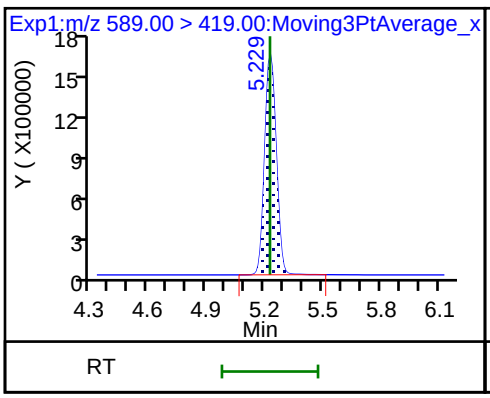
45 Perfluoroundecanoic acid



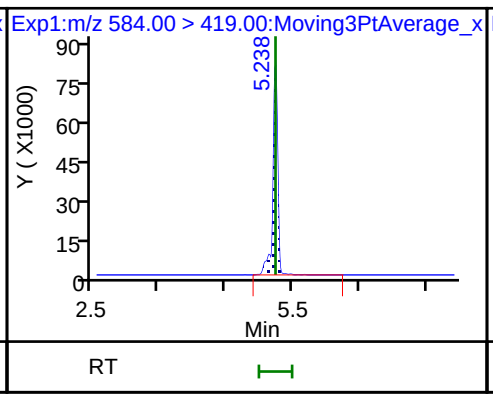
45 Perfluoroundecanoic acid



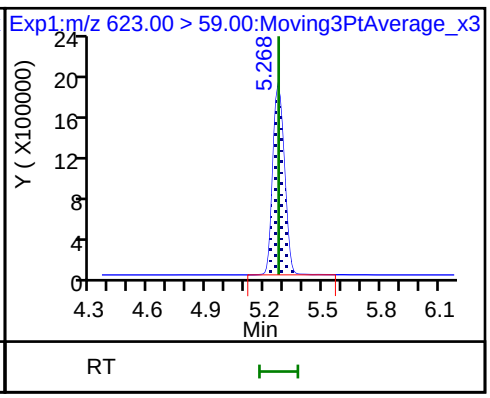
D 44 d5-NEtFOSAA



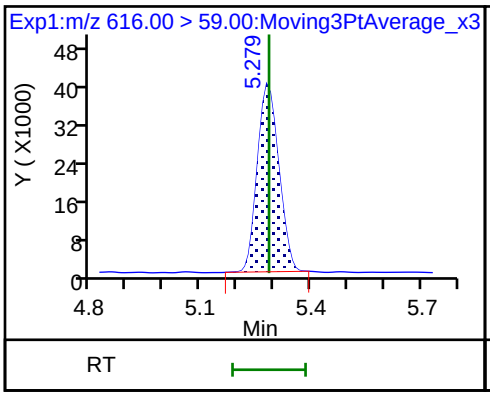
46 NEtFOSA



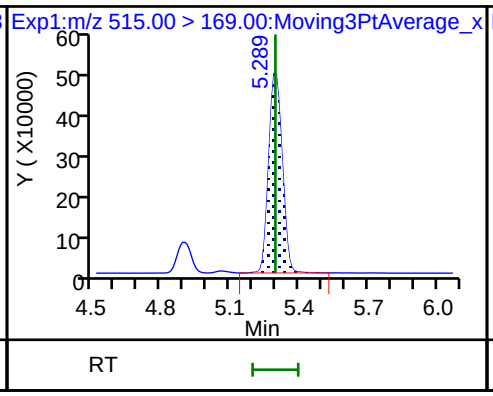
D 47 d7-N-MeFOSE-M



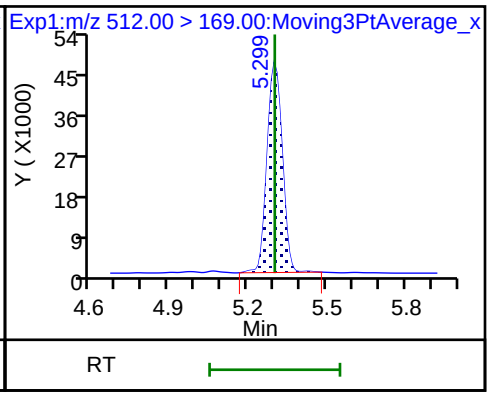
48 N-MeFOSE-M



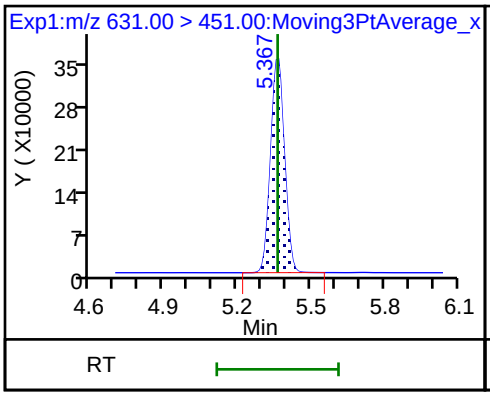
D 49 d-N-MeFOSA-M



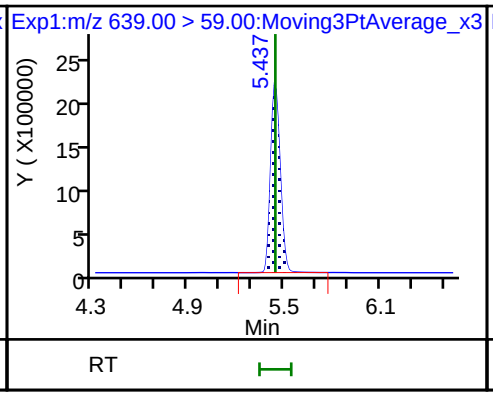
50 NMeFOSA



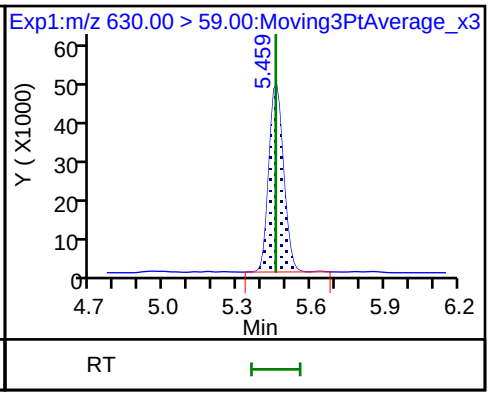
51 11ClFOS



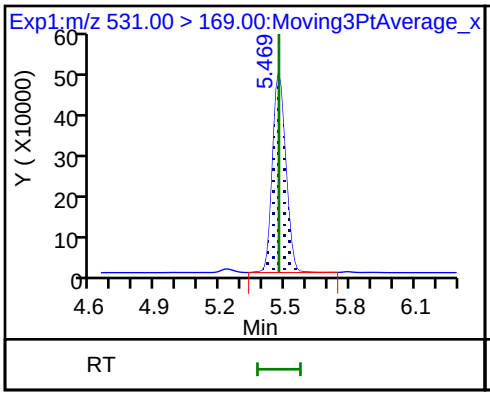
D 52 d9-N-EtFOSE-M



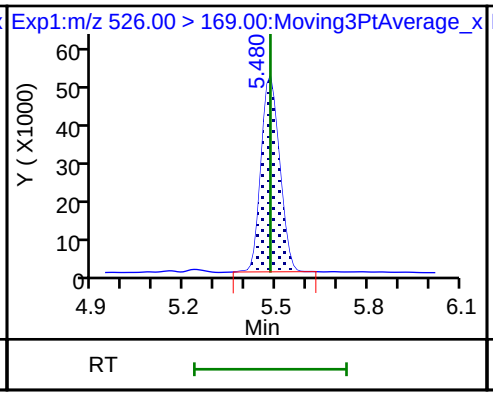
53 N-EtFOSE-M



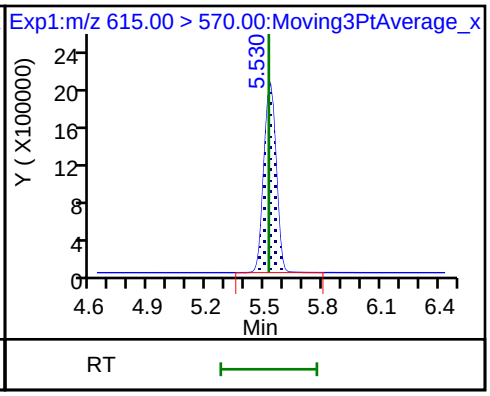
D 54 d-N-EtFOSA-M



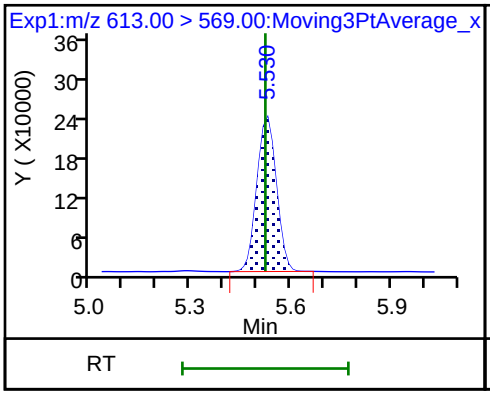
55 N-EtFOSA-M



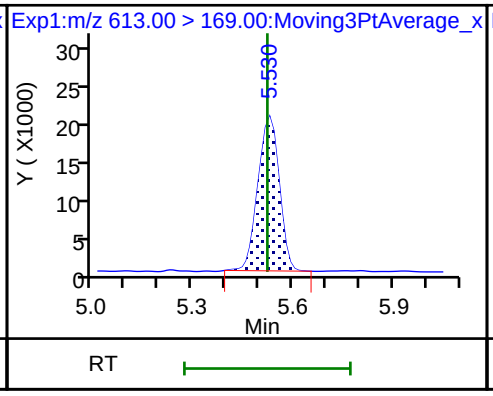
D 56 13C2 PFDoA



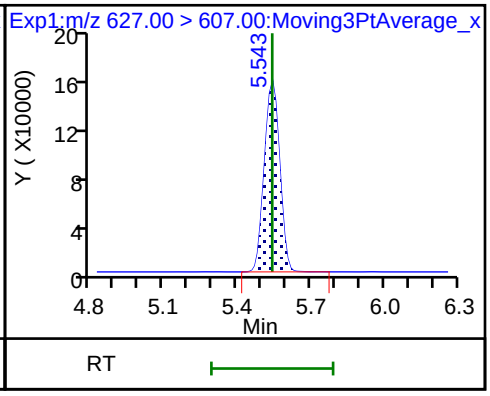
57 Perfluorododecanoic acid



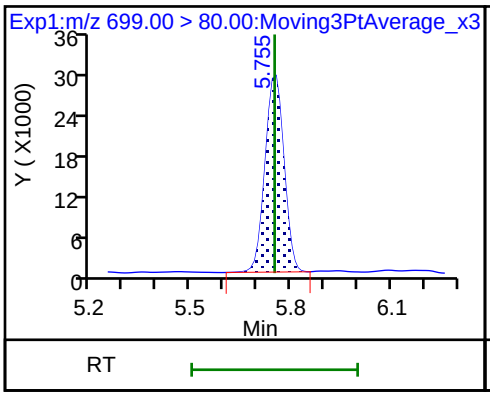
57 Perfluorododecanoic acid



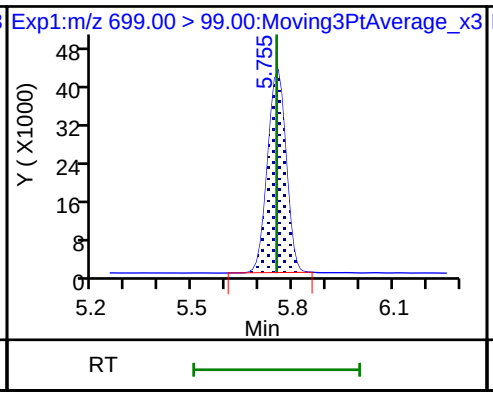
58 10:2 FTS



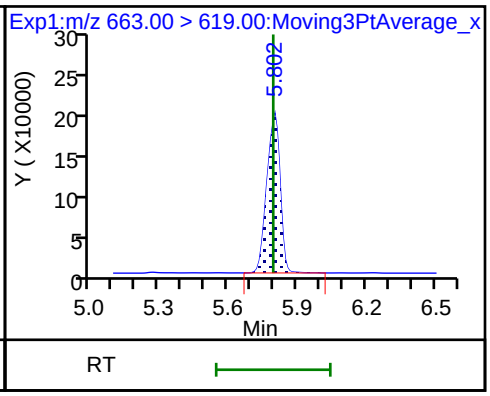
59 PFDoS



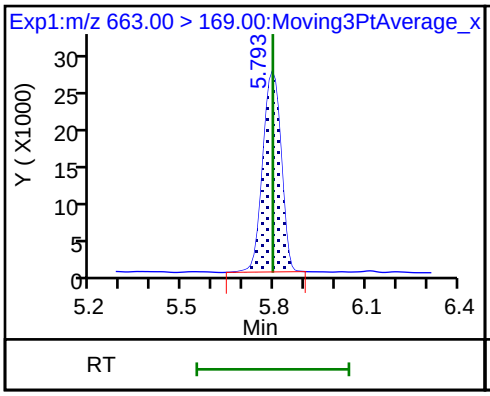
59 PFDoS



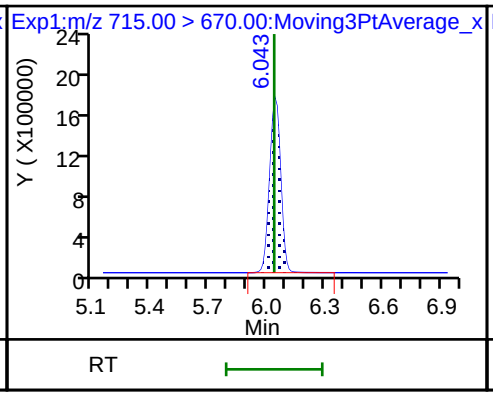
60 Perfluorotridecanoic acid



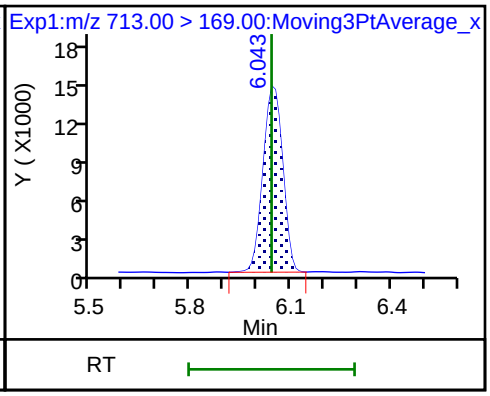
60 Perfluorotridecanoic acid



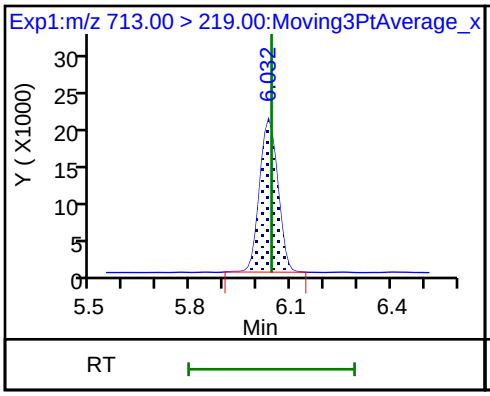
D 61 13C2 PFTeDA



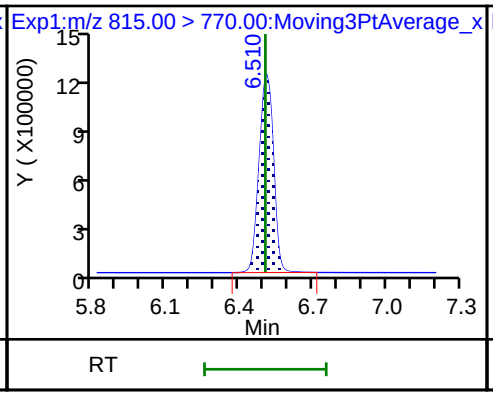
62 Perfluorotetradecanoic acid



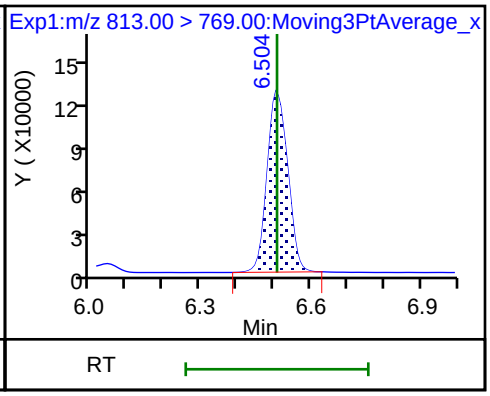
62 Perfluorotetradecanoic acid



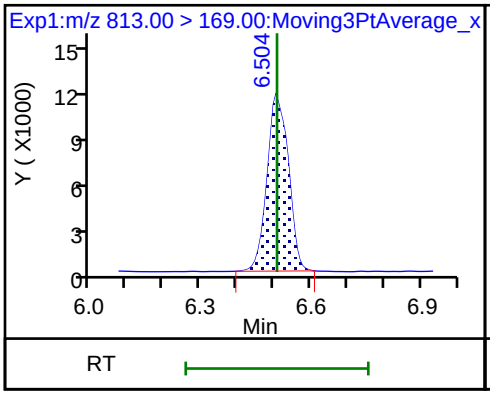
D 64 13C2 PFHxDA



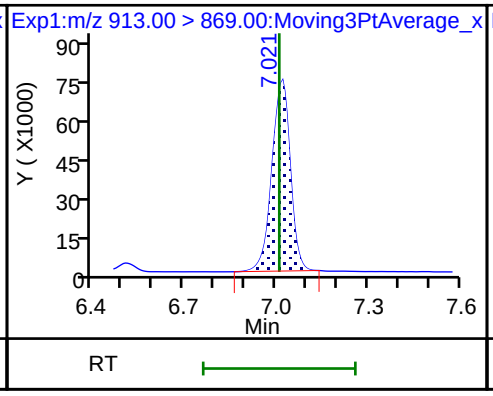
63 Perfluorohexadecanoic acid



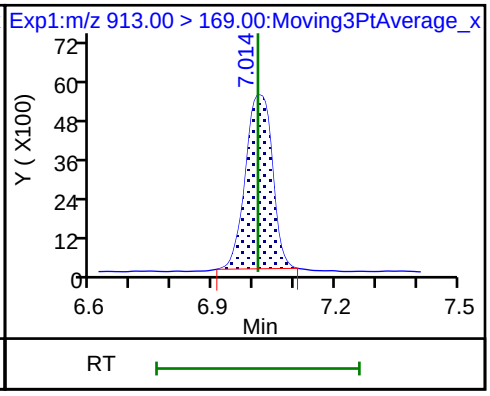
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

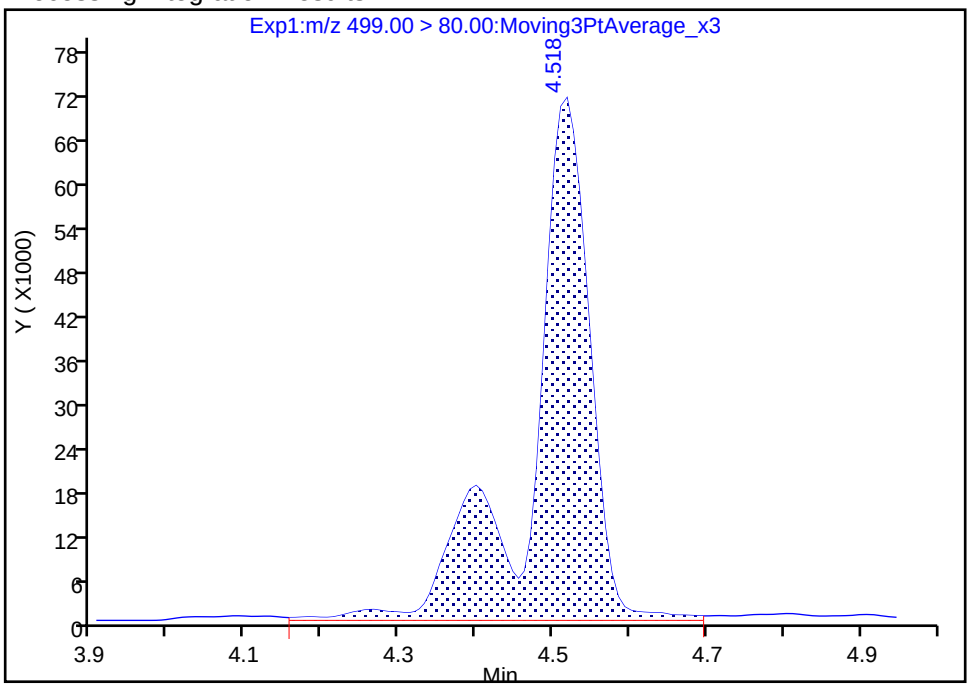
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_013.d
Injection Date: 25-Aug-2020 17:01:30 Instrument ID: A18
Lims ID: IC STD 3
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 8 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

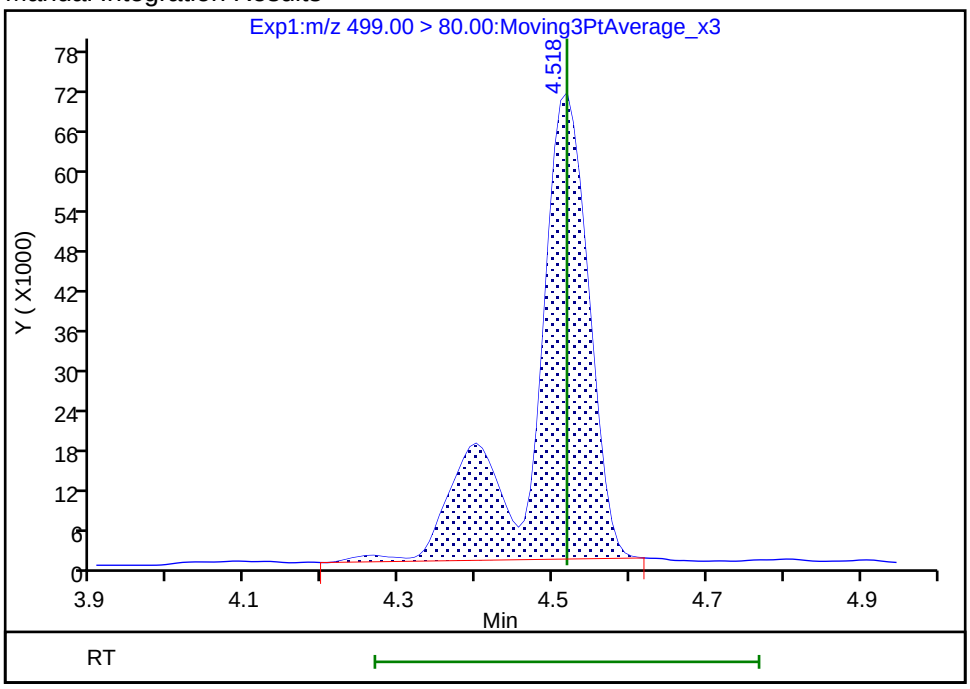
Processing Integration Results

RT: 4.52
Area: 383257
Amount: 0.247377
Amount Units: ng/ml



Manual Integration Results

RT: 4.52
Area: 359317
Amount: 0.225272
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:02:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

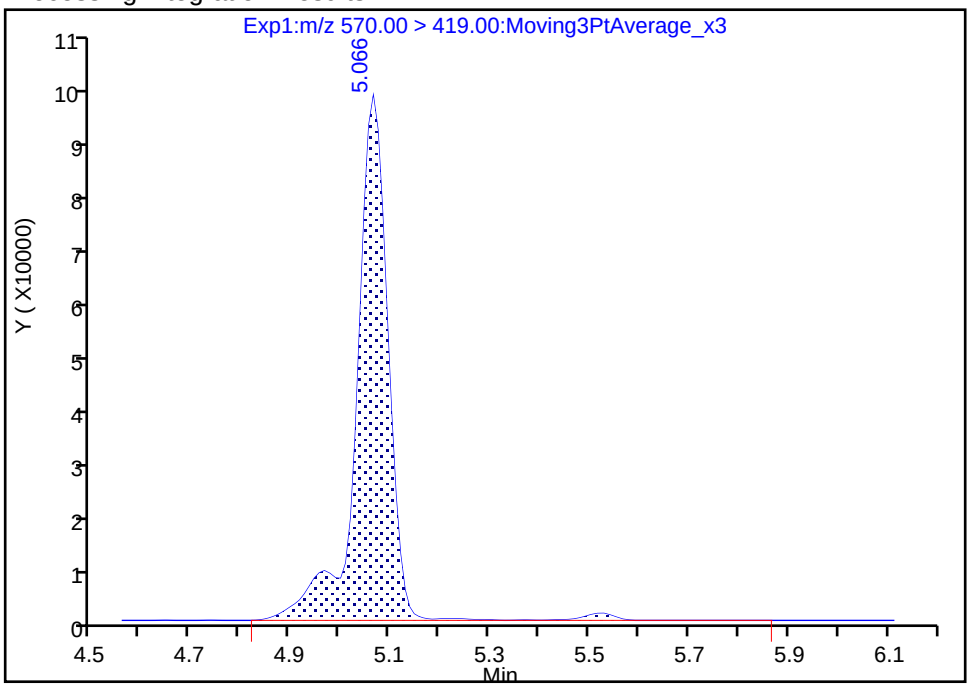
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_013.d
Injection Date: 25-Aug-2020 17:01:30 Instrument ID: A18
Lims ID: IC STD 3
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 8 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

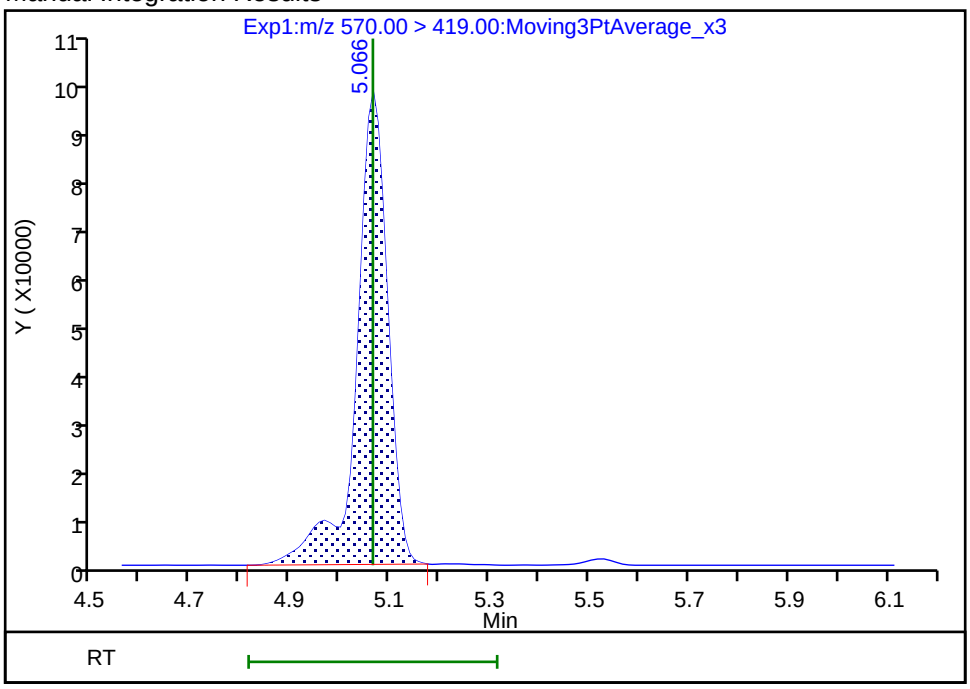
Processing Integration Results

RT: 5.07
Area: 412005
Amount: 0.238682
Amount Units: ng/ml



Manual Integration Results

RT: 5.07
Area: 402573
Amount: 0.233949
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:02:44
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_014.d
Lims ID: IC STD 4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 25-Aug-2020 17:10:36 ALS Bottle#: 9 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 4 (30)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:42:45 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 05:41:45
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.573	2.577	-0.004	0.618	16673548	2.49		99.6	8578	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.573	2.580	-0.007	1.000	6131943	1.06		106	244	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.940	2.941	-0.001	1.000	5201851	1.01		101	259	
D 4 13C5 PFPeA										
267.90 > 223.00	2.940	2.941	-0.001	0.706	12887366	2.47		98.9	5321	
D 9 13C3 PFBS										
301.90 > 80.00	2.973	2.977	-0.004	0.714	9789648	2.39		103	4378	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.985	2.982	0.003	1.004	3977334	0.9354	Target=2.30	106	849	
298.90 > 99.00	2.985	2.982	0.003	1.004	1710548		2.33(1.15-3.45)	106	672	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.288	3.288	0.0	0.790	2262460	2.29		98.3	979	
8 4:2 FTS										
327.00 > 307.00	3.288	3.288	0.0	1.000	2323852	1.06		113	8679	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.341	3.334	0.007	1.000	5163146	1.06	Target=13.78	106	424	
313.00 > 119.00	3.341	3.334	0.007	1.000	377402		13.68(6.89-20.66)	106	292	
D 11 13C2 PFHxA										
315.00 > 270.00	3.341	3.334	0.007	0.802	12673553	2.44		97.5	5304	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.352	3.349	0.003	1.127	3300035	0.9889	Target=3.02	105	748	
349.00 > 99.00	3.352	3.349	0.003	1.127	1090992		3.02(1.51-4.52)	105	811	
13 HPFO-DA										
285.00 > 169.00	3.469	3.463	0.006	1.000	1068621	1.08		108	3554	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.469	3.463	0.006	0.833	2536511	2.38		95.4	5125	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.750	3.750	0.0	1.000	4537270	1.02	Target=3.84	102	570	
363.00 > 169.00	3.750	3.750	0.0	1.000	1175771		3.86(1.92-5.76)	102	767	
D 18 13C4 PFHpA										
367.00 > 322.00	3.750	3.750	0.0	0.901	11023105	2.48		99.3	8595	
D 17 18O2 PFHxS										
403.00 > 84.00	3.760	3.752	0.008	0.903	5251864	2.43		103	6737	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.760	3.752	0.008	1.000	2269071	0.8649	Target=3.50	95.0	955	
399.00 > 99.00	3.760	3.752	0.008	1.000	673632		3.37(1.75-5.25)	95.0	663	
19 DONA										
377.00 > 251.00	3.807	3.800	0.007	0.841	14631457	1.04	Target=2.42	111	6210	
377.00 > 85.00	3.798	3.800	-0.002	0.839	5897895		2.48(1.21-3.63)	111	5206	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.131	4.127	0.004	0.992	2065620	2.50		105	1314	
21 6:2 FTS										
427.00 > 407.00	4.131	4.127	0.004	1.000	1954343	0.9775		103	2270	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.148	4.143	0.005	0.917	1678911	1.03	Target=4.40	108	741	
449.00 > 99.00	4.148	4.143	0.005	0.917	373914		4.49(2.20-6.60)	108	606	
$ 26 13C8 PFOA										
421.00 > 376.00	4.156	4.147	0.009	0.998	7083297	2.48		101	7081	
D 25 13C4 PFOA										
417.00 > 372.00	4.156	4.150	0.006	0.998	10456450	2.47		98.9	5364	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.156	4.150	0.006	1.000	4439056	1.04	Target=2.94	104	848	
413.00 > 169.00	4.156	4.150	0.006	1.000	1429845		3.10(1.47-4.41)	104	1917	
* 23 13C2 PFOA										
415.00 > 370.00	4.164	4.151	0.013		10564097	2.50			5935	
$ 28 13C8 PFOS										
507.00 > 99.00	4.518	4.514	0.004	1.085	1087755	2.38		99.5	3500	
D 27 13C4 PFOS										
503.00 > 80.00	4.526	4.516	0.010	1.087	3501137	2.39		100	1374	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.526	4.518	0.008	1.000	1484922	0.9793	Target=4.53	106	386	M
499.00 > 99.00	4.526	4.518	0.008	1.000	313496		4.74(2.26-6.79)	106	470	
31 Perfluorononanoic acid										
463.00 > 419.00	4.542	4.537	0.005	1.000	3545158	1.09	Target=8.97	109	581	
463.00 > 169.00	4.542	4.537	0.005	1.000	382752		9.26(4.48-13.45)	109	481	
D 30 13C5 PFNA										
468.00 > 423.00	4.542	4.533	0.009	1.091	8480054	2.49		99.6	5263	
32 9ClFOS										
531.00 > 351.00	4.731	4.724	0.007	1.045	4773068	1.01		108	8712	
D 33 13C8 FOSA										
506.00 > 78.00	4.837	4.830	0.007	1.162	5841724	2.47		98.9	3968	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.837	4.830	0.007	1.000	2305329	1.06		106	4979	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.872	4.868	0.004	1.077	1419890	1.03	Target=2.85	108	981	
549.00 > 99.00	4.872	4.868	0.004	1.077	519071		2.74(1.43-4.28)	108	1107	
D 39 13C2 PFDA										
515.00 > 470.00	4.898	4.892	0.006	1.176	8234495	2.49		99.6	11781	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.898	4.896	0.002	1.000	3603160	1.13	Target=10.16	113	1456	
513.00 > 169.00	4.898	4.896	0.002	1.000	375667		9.59(5.08-15.24)	113	219	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.908	4.897	0.011	1.179	2945635	2.47		103	1605	
36 8:2 FTS										
527.00 > 507.00	4.908	4.898	0.010	1.000	2284820	1.05		109	3838	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.066	5.062	0.004	1.217	5374136	2.42		96.8	3697	
41 NMeFOSAA										
570.00 > 419.00	5.075	5.065	0.010	1.002	1648495	1.03		103	13563	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.193	5.191	0.002	1.148	1245321	1.02	Target=2.77	106	1091	
599.00 > 99.00	5.193	5.191	0.002	1.148	445403		2.80(1.38-4.15)	106	1467	
D 43 13C2 PFUnA										
565.00 > 520.00	5.230	5.221	0.009	1.256	8583621	2.62		105	15140	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.221	5.221	0.0	0.998	2756370	1.11	Target=8.43	111	1305	
563.00 > 169.00	5.230	5.221	0.009	1.000	319144		8.64(4.22-12.65)	111	643	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.230	5.227	0.003	1.256	6107918	2.60		104	4844	
46 NEtFOSA										
584.00 > 419.00	5.240	5.236	0.004	1.002	1688059	1.02		102	357841	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.280	5.272	0.008	1.268	6740557	11.5		92.2	2121	
48 N-MeFOSE-M										
616.00 > 59.00	5.290	5.285	0.005	1.002	615221	1.06		106	771	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.300	5.295	0.005	1.273	2025907	2.44		97.6	59.3	
50 NMeFOSA										
512.00 > 169.00	5.311	5.301	0.010	1.002	907971	1.17		117	571	
51 11ClFOS										
631.00 > 451.00	5.367	5.363	0.004	1.186	6038721	1.01		107	12923	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.448	5.443	0.005	1.308	8451063	11.8		94.1	1398	
53 N-EtFOSE-M										
630.00 > 59.00	5.470	5.456	0.014	1.004	817562	1.13		113	661	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.480	5.471	0.009	1.316	2050346	2.41		96.5	283	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.491	5.480	0.011	1.002	943681	1.09		109	383	
D 56 13C2 PFDoA										
615.00 > 570.00	5.530	5.521	0.009	1.328	9016643	2.79		112	7887	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.530	5.523	0.007	1.000	3749242	1.02	Target=9.12	101	1446	
613.00 > 169.00	5.530	5.523	0.007	1.000	407481		9.20(4.56-13.69)	101	1023	
58 10:2 FTS										
627.00 > 607.00	5.543	5.541	0.002	1.129	2602419	1.05		109	4137	
59 PFDoS										
699.00 > 80.00	5.755	5.751	0.004	1.272	469292	0.9624	Target=0.72	99.4	763	
699.00 > 99.00	5.755	5.751	0.004	1.272	666829		0.70(0.36-1.07)	99.4	2762	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.802	5.795	0.007	1.049	3076494	0.9066	Target=6.78	90.7	1869	
663.00 > 169.00	5.793	5.795	-0.002	1.048	527109		5.84(3.39-10.17)	90.7	1339	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.053	6.038	0.015	1.454	6734824	2.53		101	9361	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.053	6.041	0.012	1.000	218083	0.9593	Target=0.85	95.8	867	
713.00 > 219.00	6.032	6.041	-0.009	0.997	265748		0.82(0.43-1.28)	95.8	1526	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.510	6.507	0.003	1.000	1683662	1.05	Target=10.21	105	1116	
813.00 > 169.00	6.504	6.507	-0.003	0.999	182226		9.24(5.11-15.32)	105	1173	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.510	6.505	0.005	1.563	4450584	2.28		91.2	5484	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	7.007	7.009	-0.002	1.076	1378512	1.17	Target=12.45	117	1243	
913.00 > 169.00	7.001	7.009	-0.008	1.075	111893		12.32(6.22-18.67)	117	1035	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:42:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_014.d

Injection Date: 25-Aug-2020 17:10:36 Instrument ID: A18

Lims ID: IC STD 4

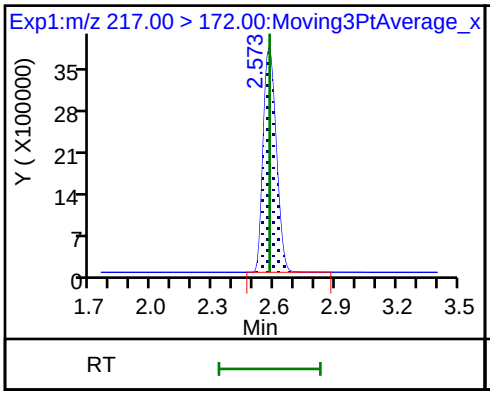
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 9 Worklist Smp#: 5

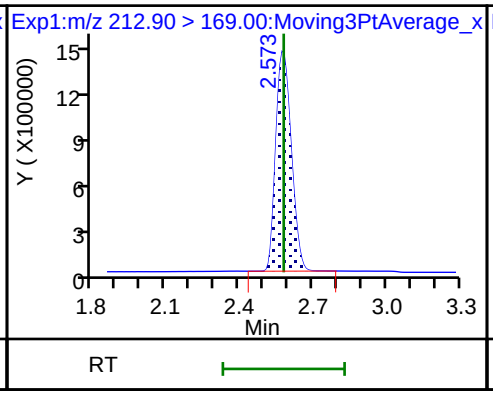
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

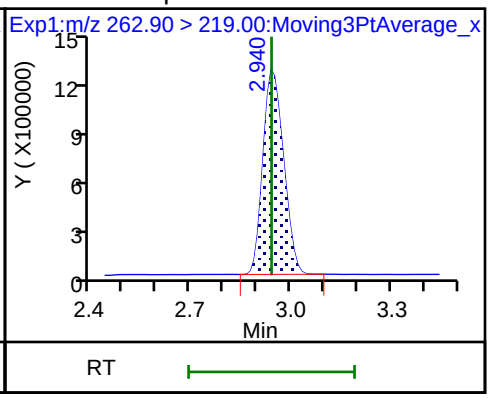
D 1 13C4 PFBA



2 Perfluorobutanoic acid



5 Perfluoropentanoic acid



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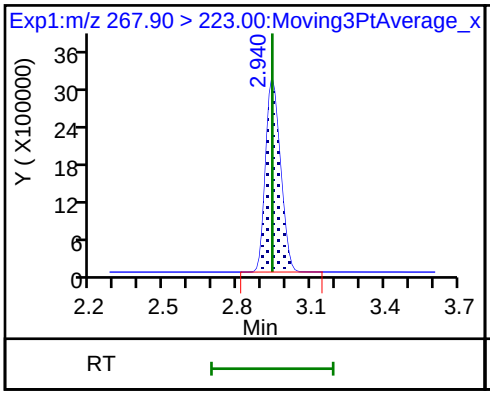
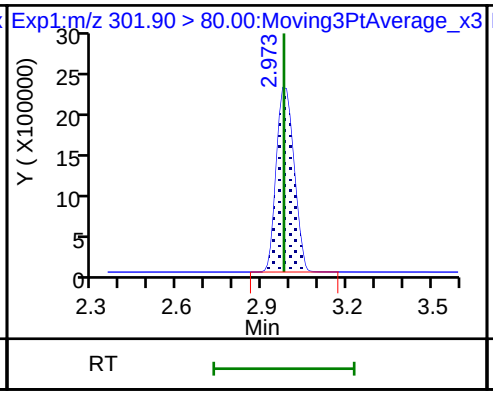
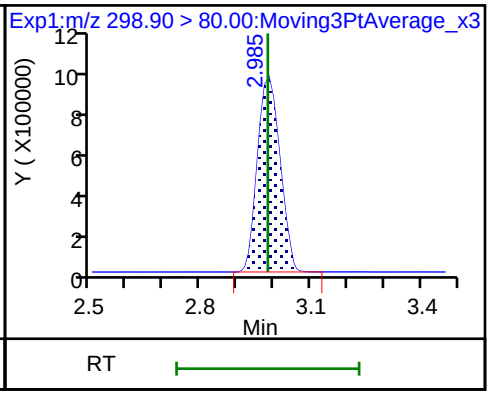


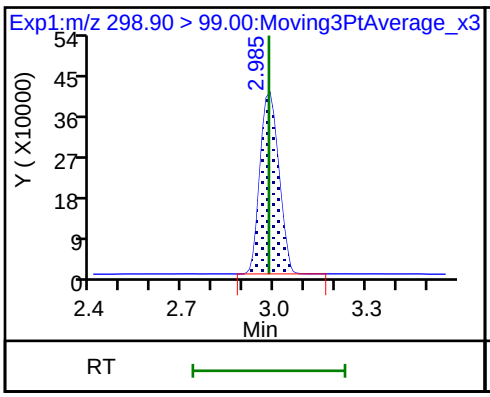
D 9 13C3 PFBS



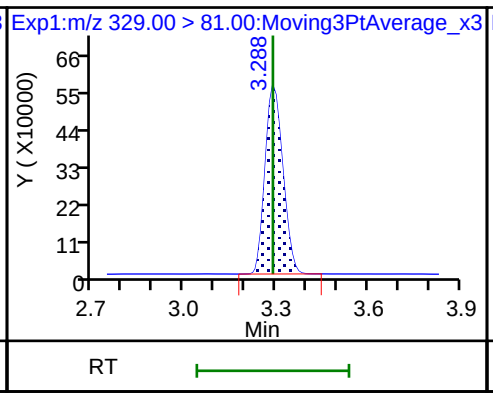
6 Perfluorobutanesulfonic acid



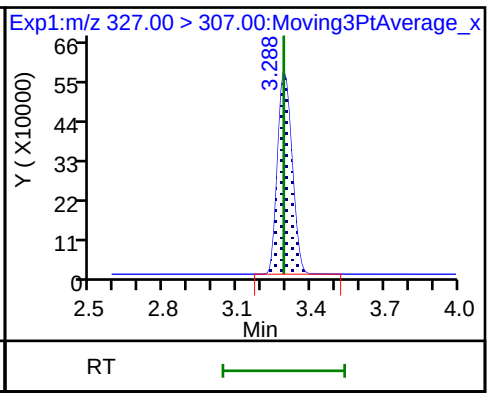
6 Perfluorobutanesulfonic acid



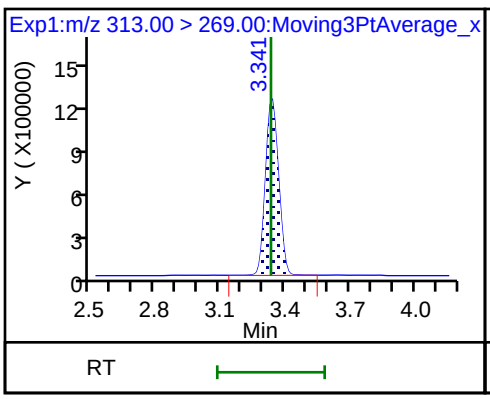
D 7 M2-4:2 FTS



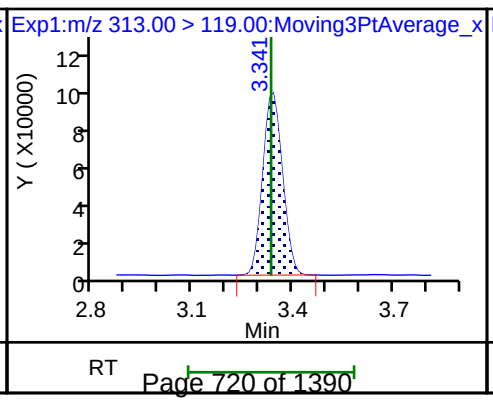
8 4:2 FTS



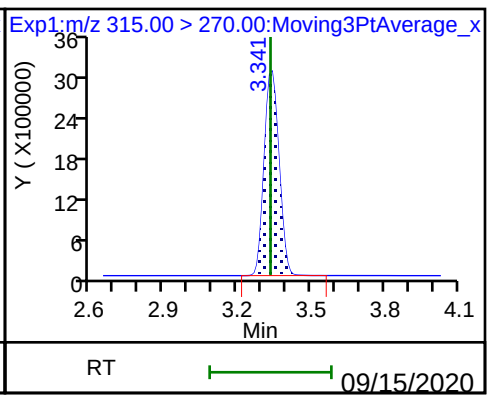
10 Perfluorohexanoic acid



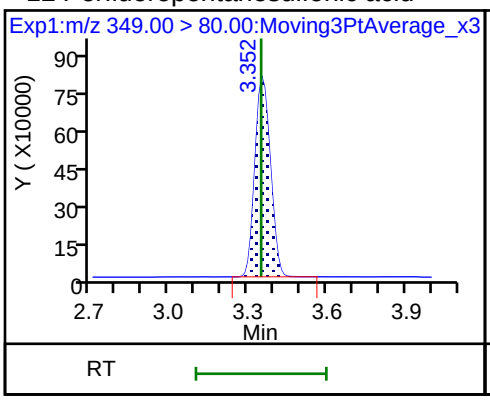
10 Perfluorohexanoic acid



D 11 13C2 PFHxA



12 Perfluoropentanesulfonic acid



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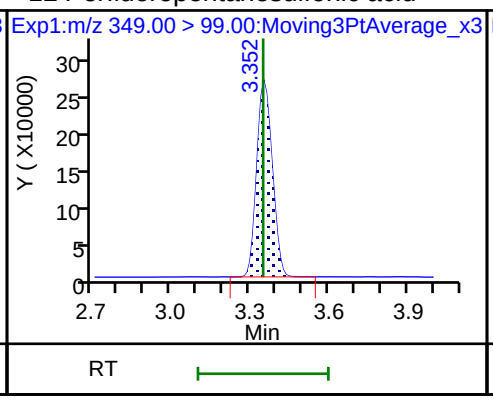
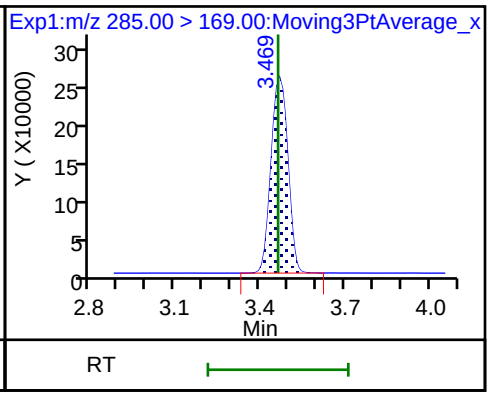
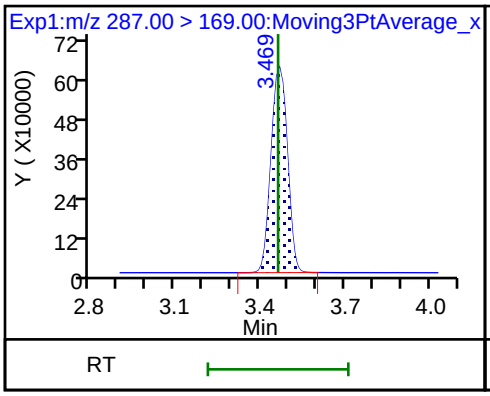


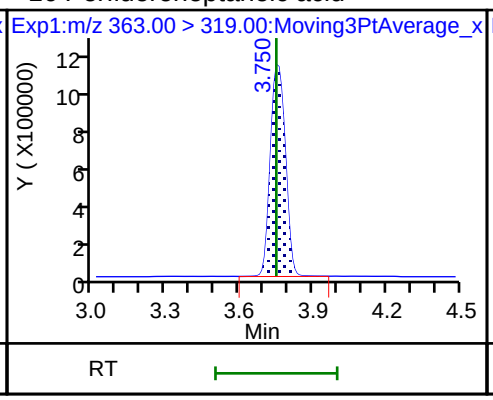
13 HPFO-DA



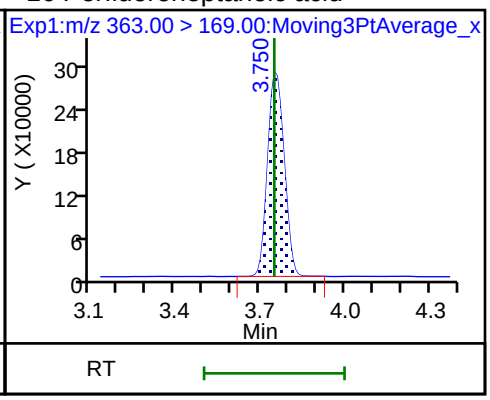
D 14 13C3 HFPO-DA



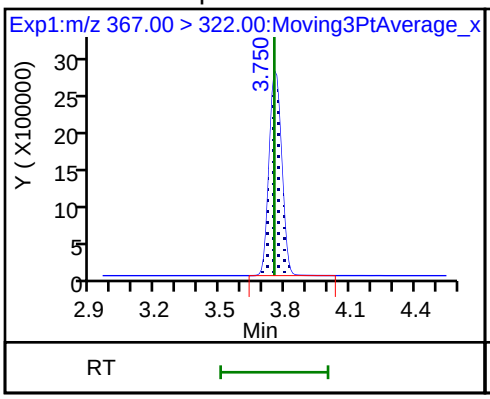
16 Perfluoroheptanoic acid



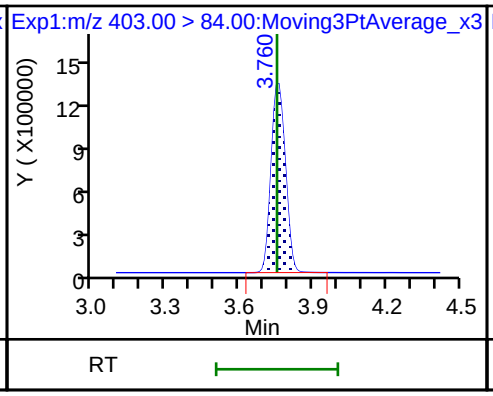
16 Perfluoroheptanoic acid



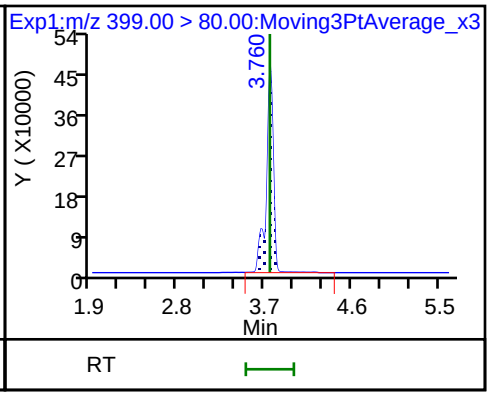
D 18 13C4 PFHpA



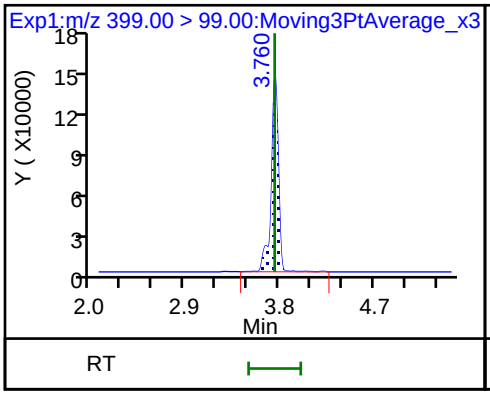
D 17 18O2 PFHxS



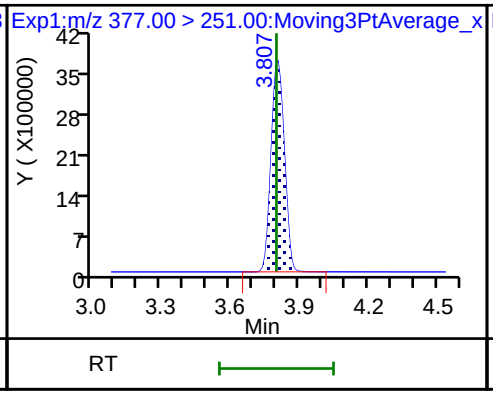
15 Perfluorohexanesulfonic acid



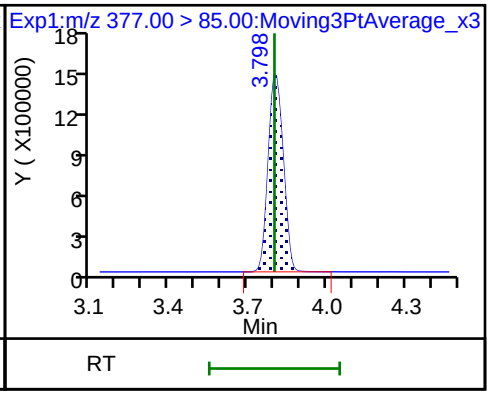
15 Perfluorohexanesulfonic acid



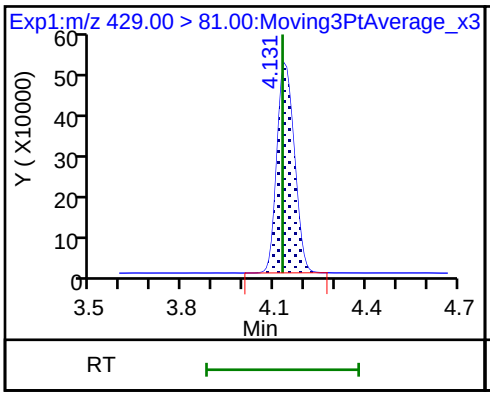
19 DONA



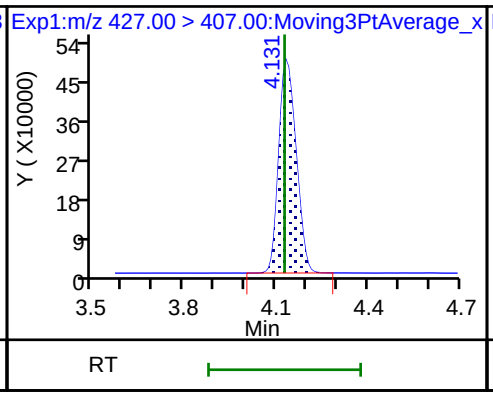
19 DONA



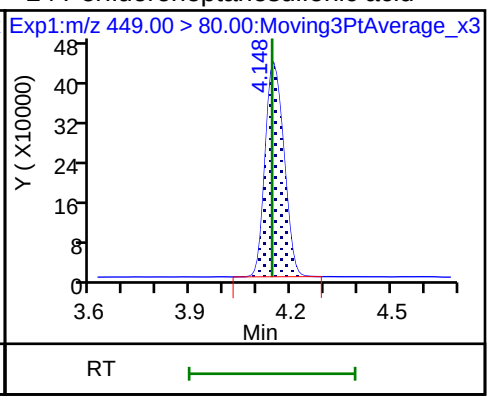
D 20 M2-6:2 FTS



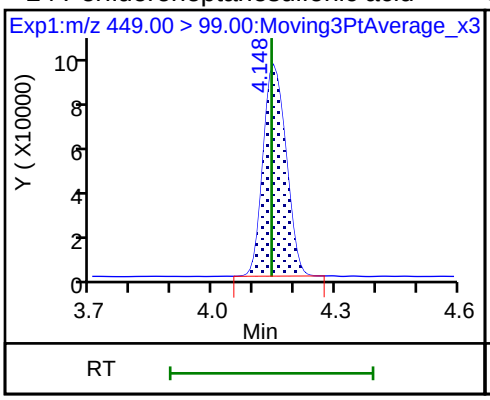
21 6:2 FTS



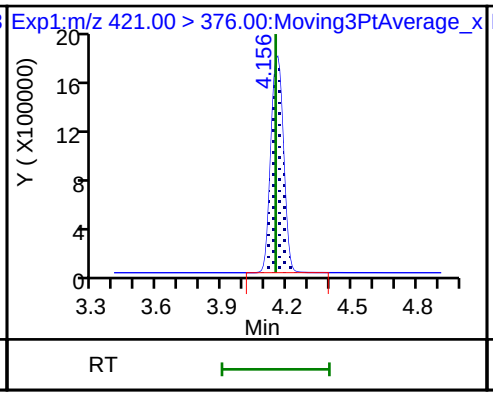
24 Perfluoroheptanesulfonic acid



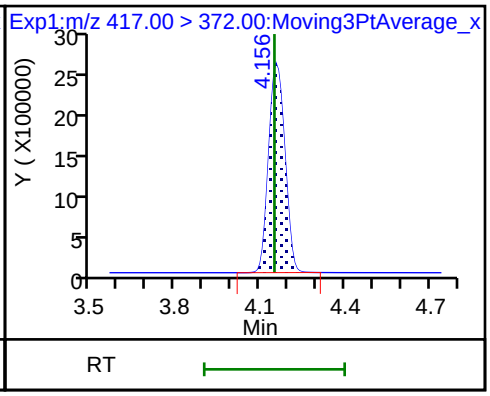
24 Perfluoroheptanesulfonic acid



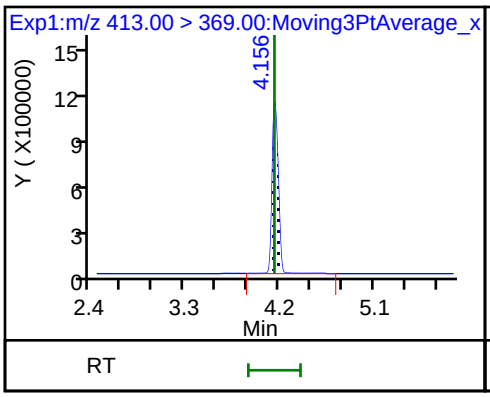
$ 26 13C8 PFOA



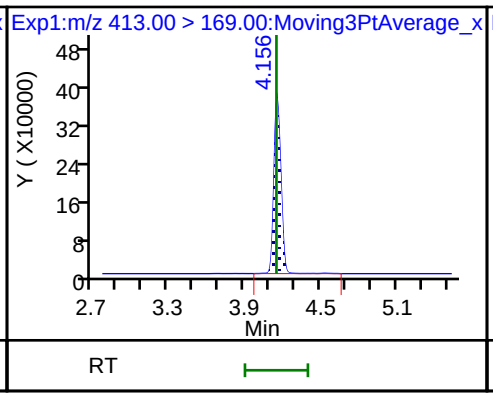
D 25 13C4 PFOA



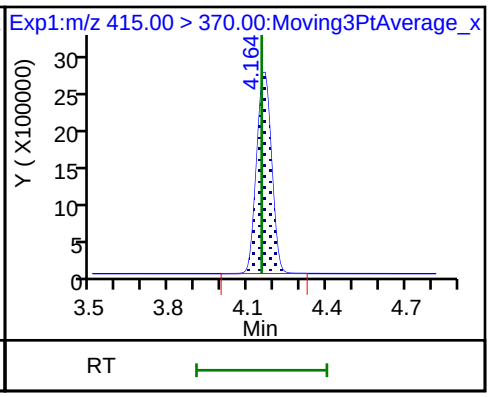
22 Perfluorooctanoic acid



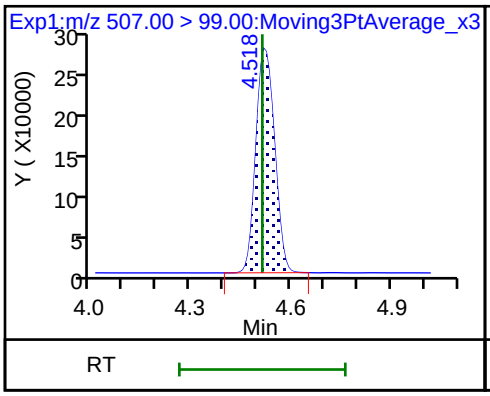
22 Perfluorooctanoic acid



* 23 13C2 PFOA



$ 28 13C8 PFOS



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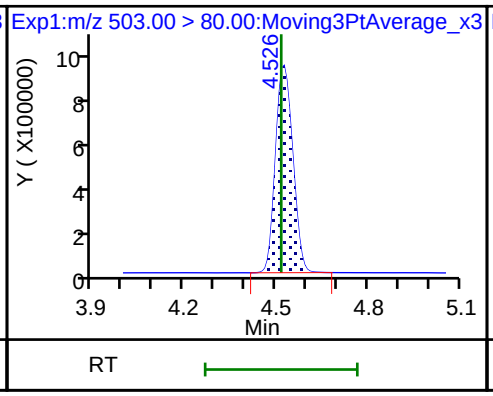
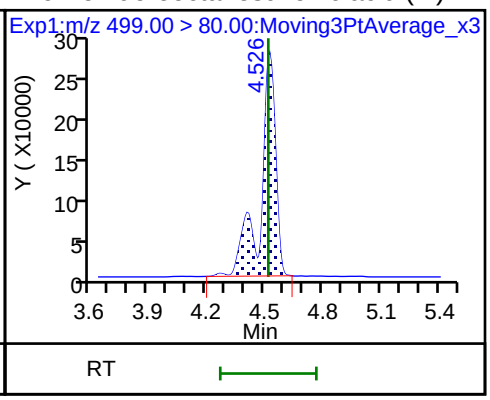
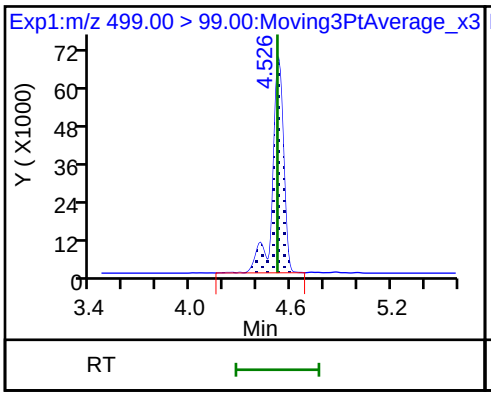


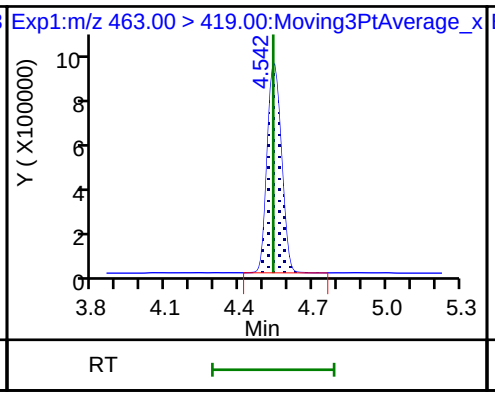
29 Perfluorooctanesulfonic acid (M)



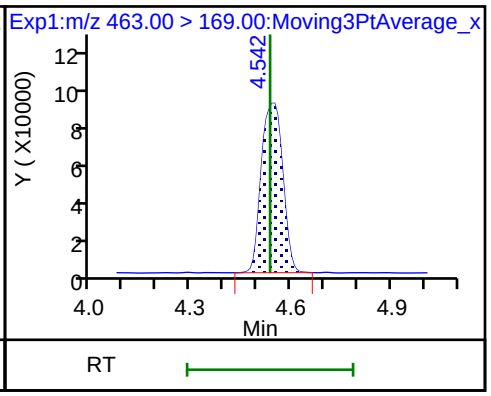
29 Perfluorooctanesulfonic acid



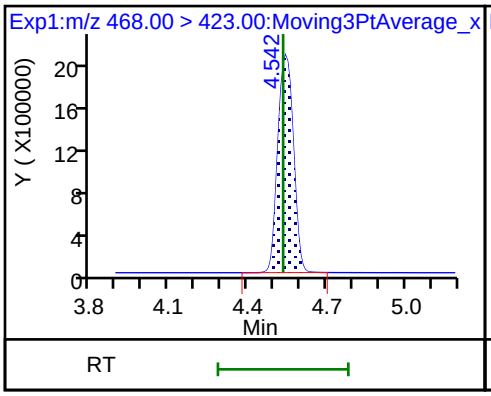
31 Perfluorononanoic acid



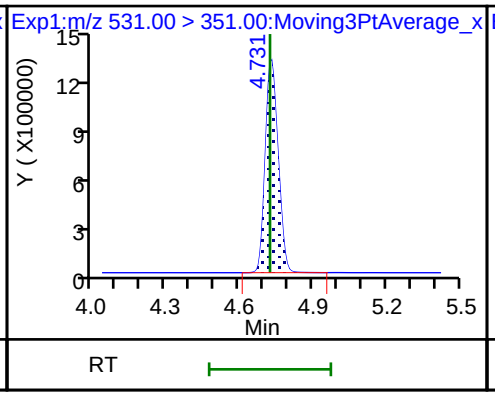
31 Perfluorononanoic acid



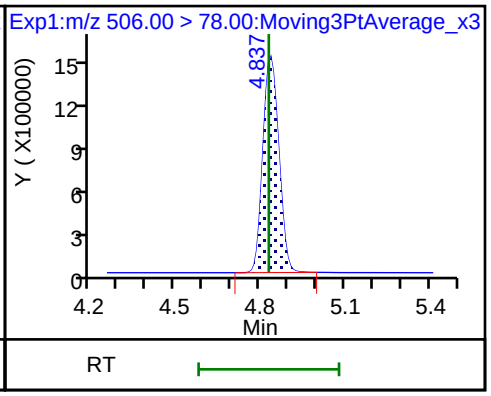
D 30 13C5 PFNA



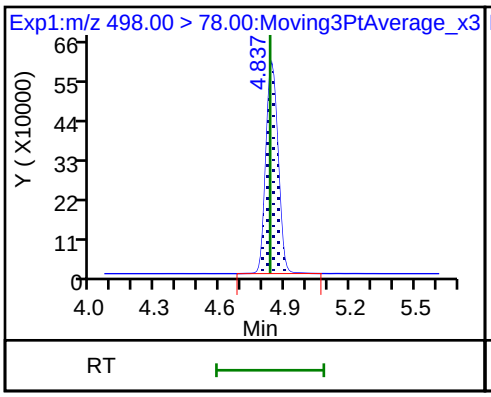
32 9ClFOS



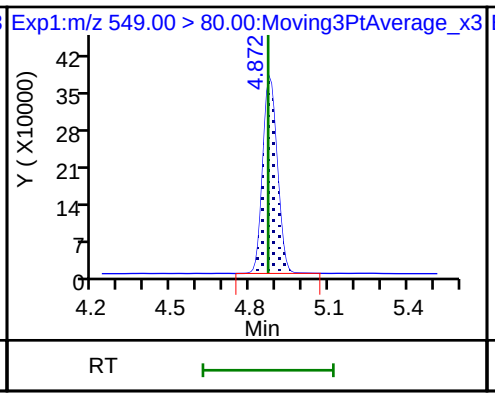
D 33 13C8 FOSA



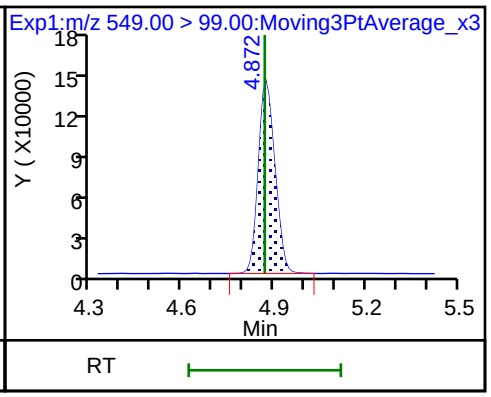
34 Perfluorooctanesulfonamide



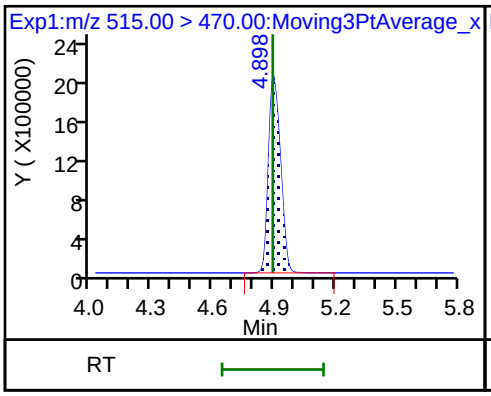
35 Perfluorononanesulfonic acid



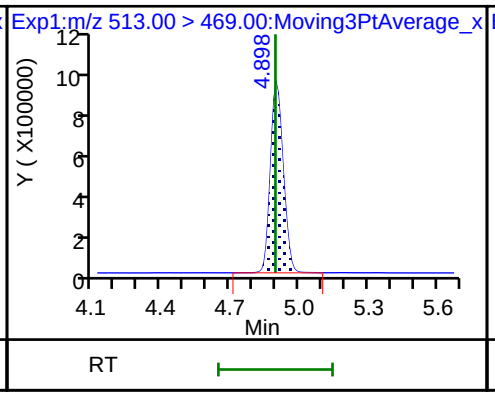
35 Perfluorononanesulfonic acid



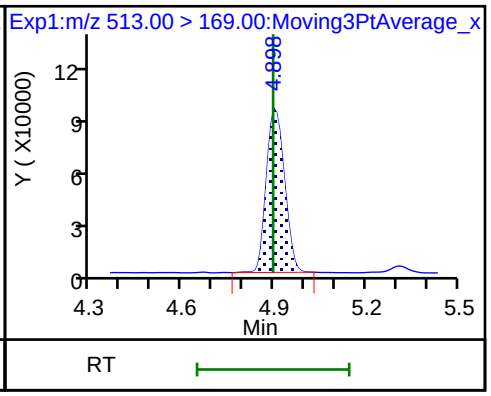
D 39 13C2 PFDA



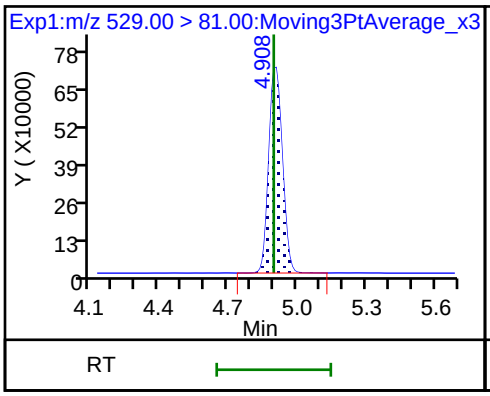
37 Perfluorodecanoic acid



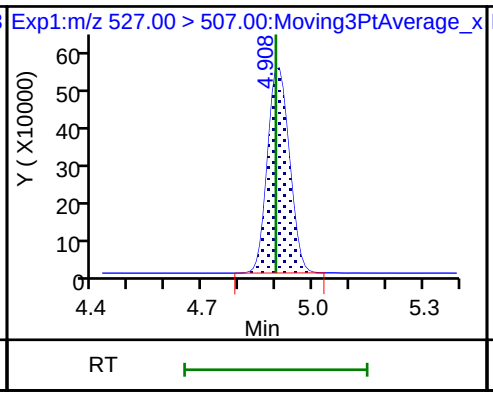
37 Perfluorodecanoic acid



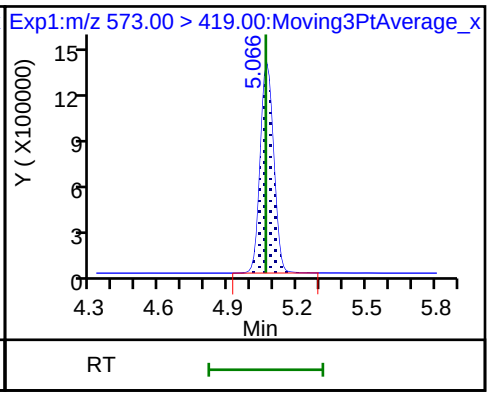
D 38 M2-8:2 FTS



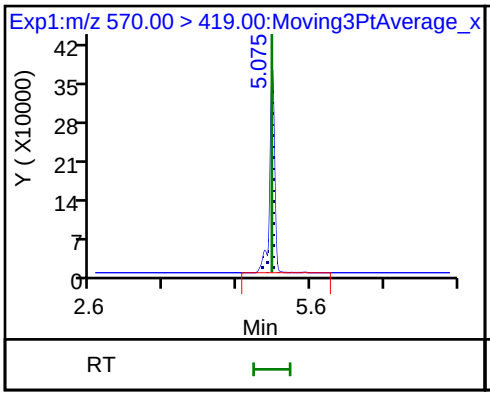
36 8:2 FTS



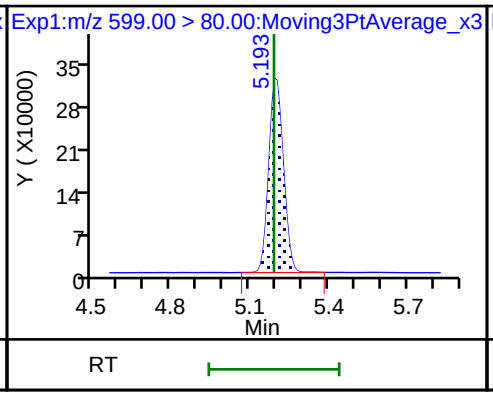
D 40 d3-NMeFOSAA



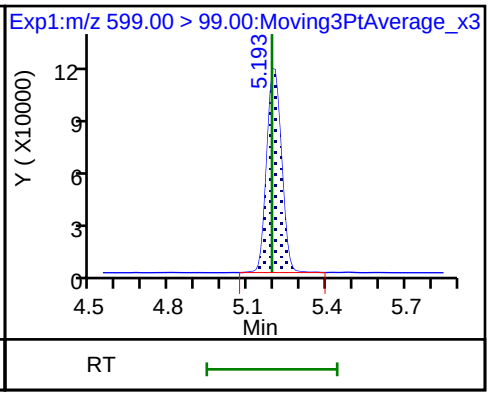
41 NMeFOSAA



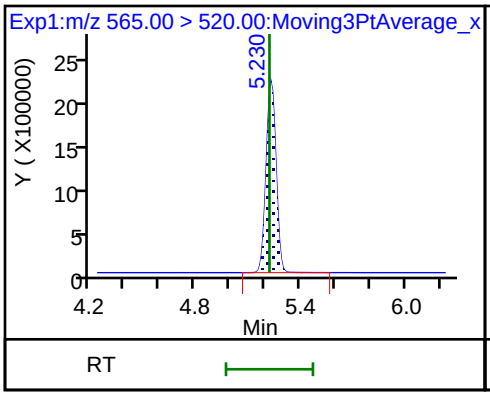
42 Perfluorodecanesulfonic acid



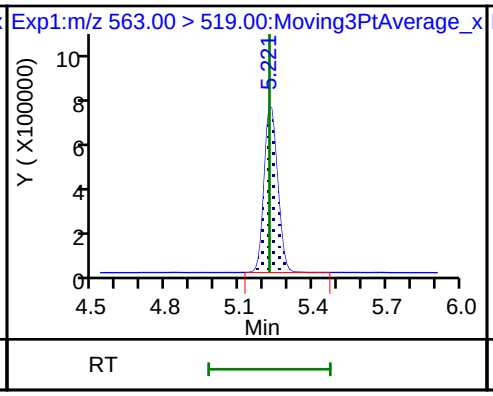
42 Perfluorodecanesulfonic acid



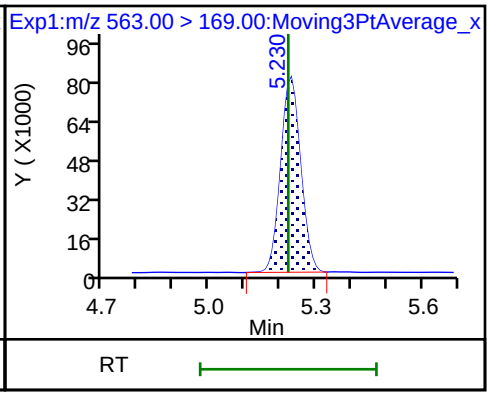
D 43 13C2 PFUnA



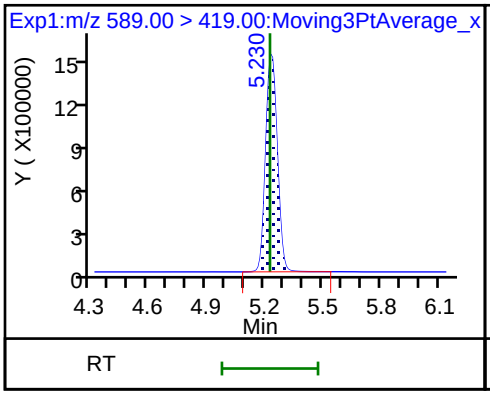
45 Perfluoroundecanoic acid



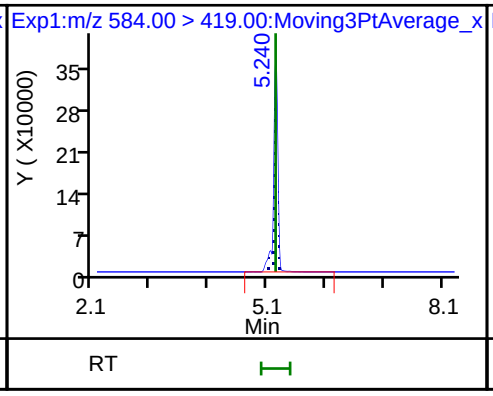
45 Perfluoroundecanoic acid



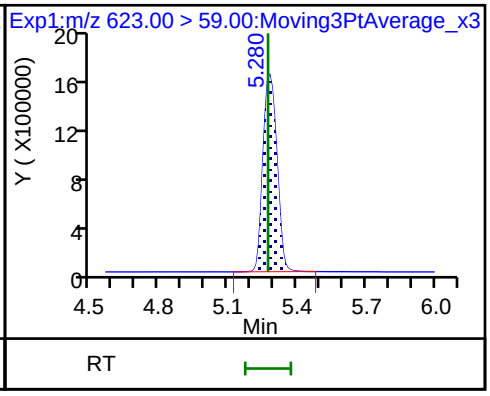
D 44 d5-NEtFOSAA



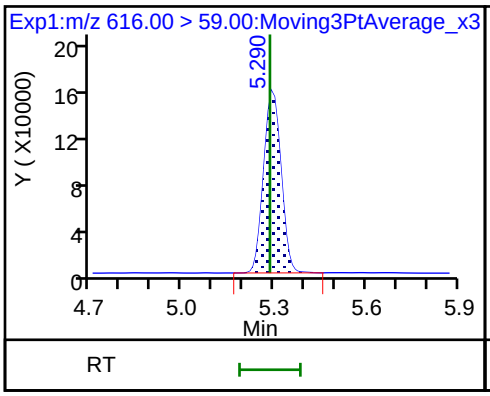
46 NEtFOSA



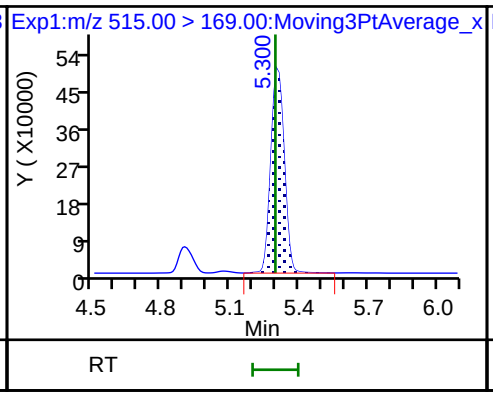
D 47 d7-N-MeFOSE-M



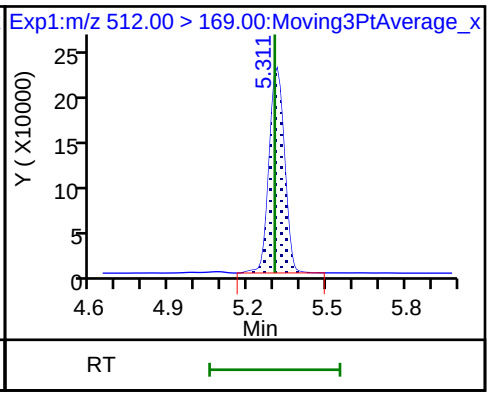
48 N-MeFOSE-M



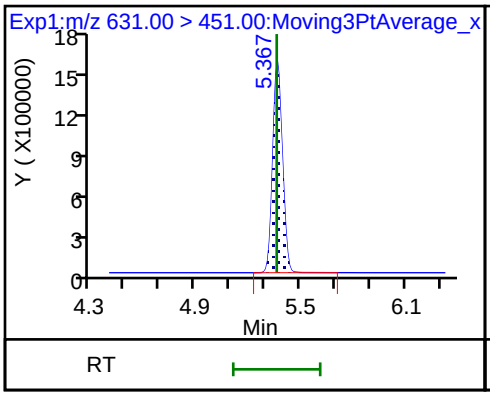
D 49 d-N-MeFOSA-M



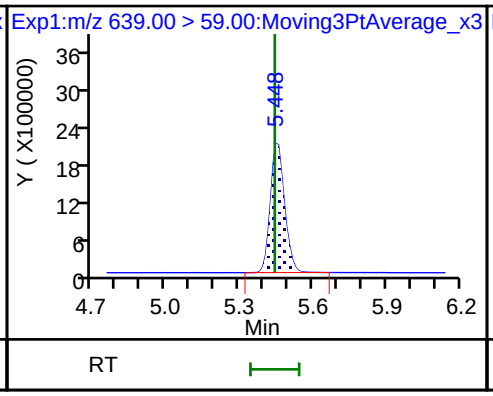
50 NMeFOSA



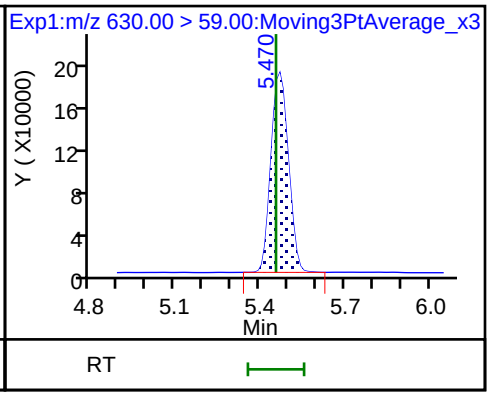
51 11ClFOS



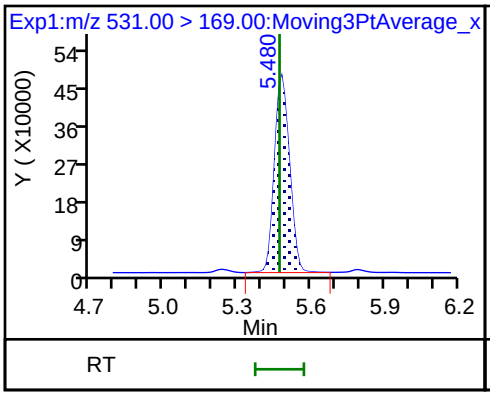
D 52 d9-N-EtFOSE-M



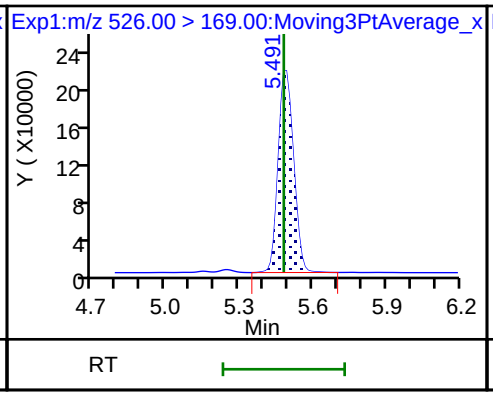
53 N-EtFOSE-M



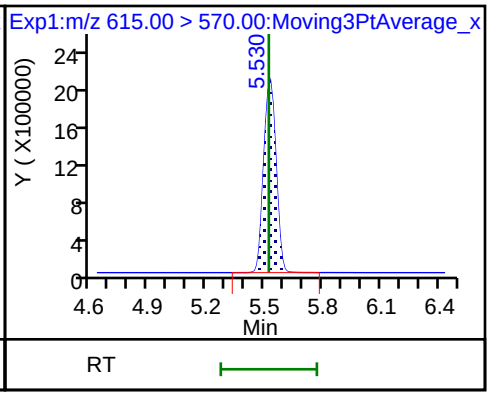
D 54 d-N-EtFOSA-M



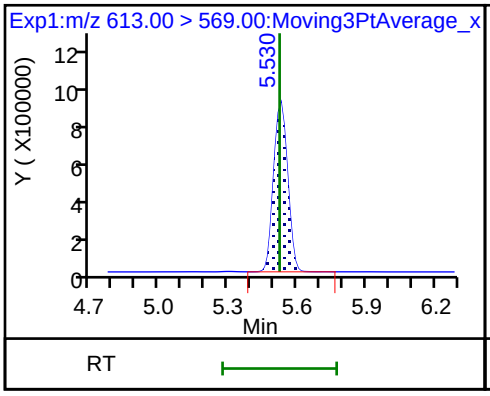
55 N-EtFOSA-M



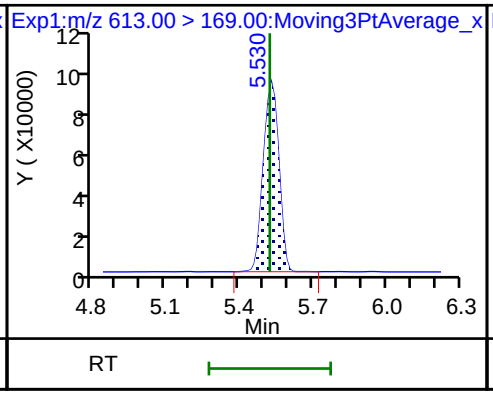
D 56 13C2 PFDoA



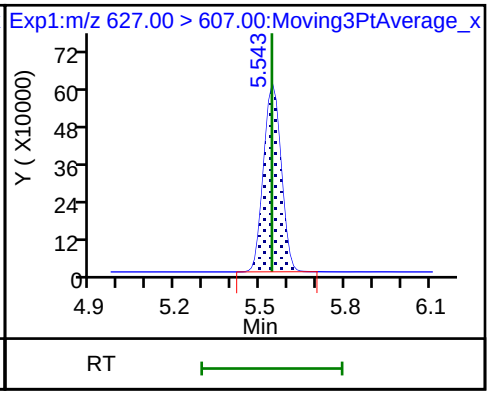
57 Perfluorododecanoic acid



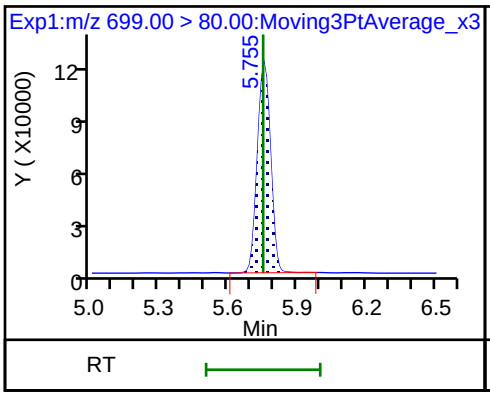
57 Perfluorododecanoic acid



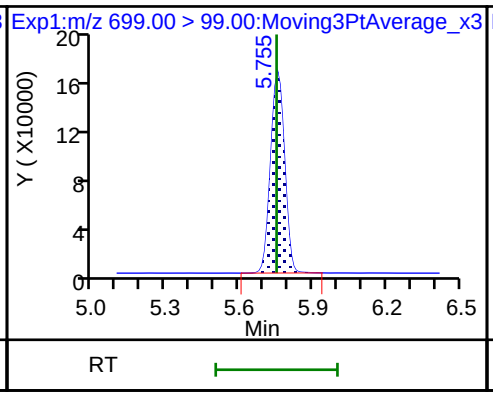
58 10:2 FTS



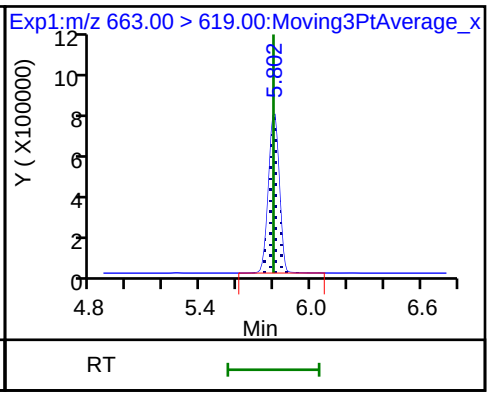
59 PFDoS



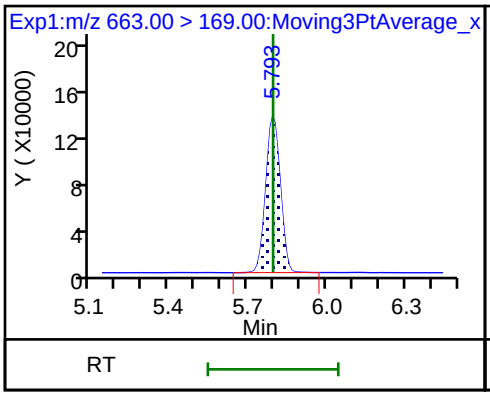
59 PFDoS



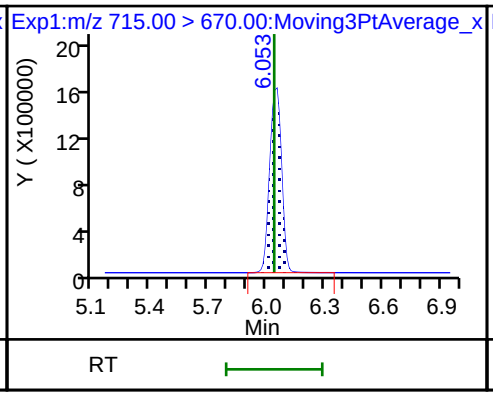
60 Perfluorotridecanoic acid



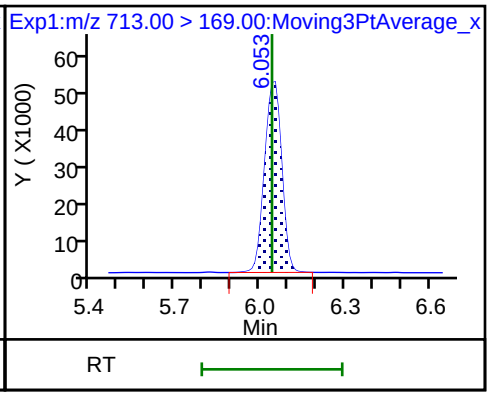
60 Perfluorotridecanoic acid



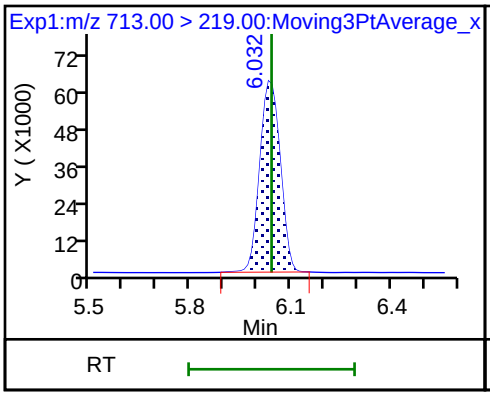
D 61 13C2 PFTeDA



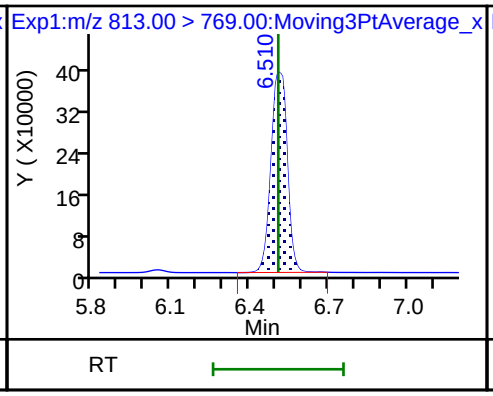
62 Perfluorotetradecanoic acid



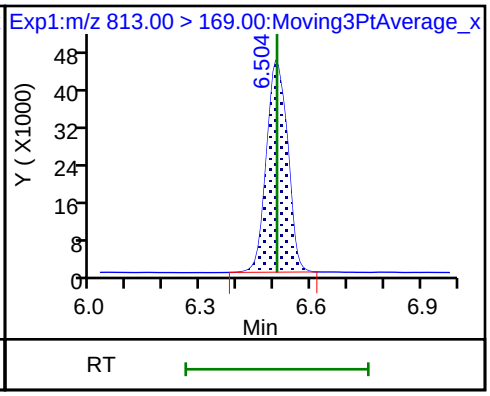
62 Perfluorotetradecanoic acid



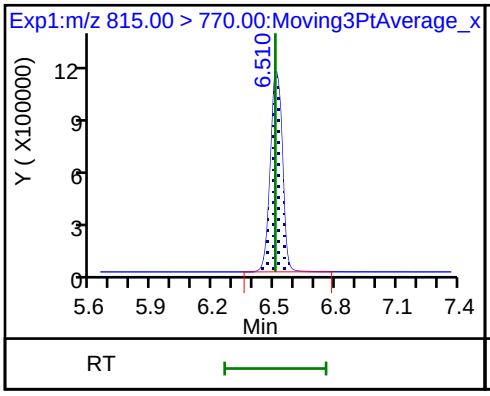
63 Perfluorohexadecanoic acid



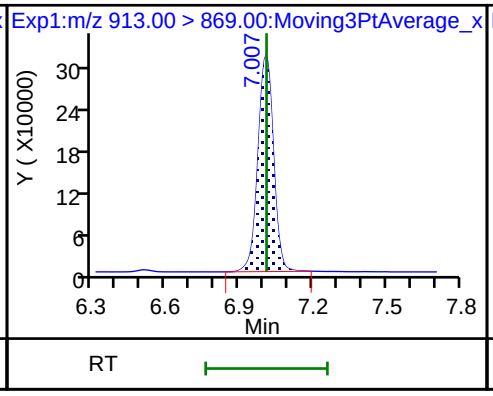
63 Perfluorohexadecanoic acid



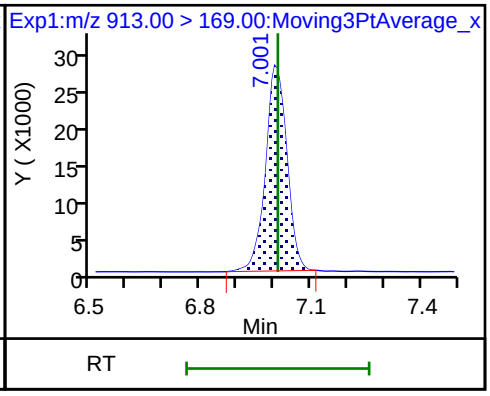
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

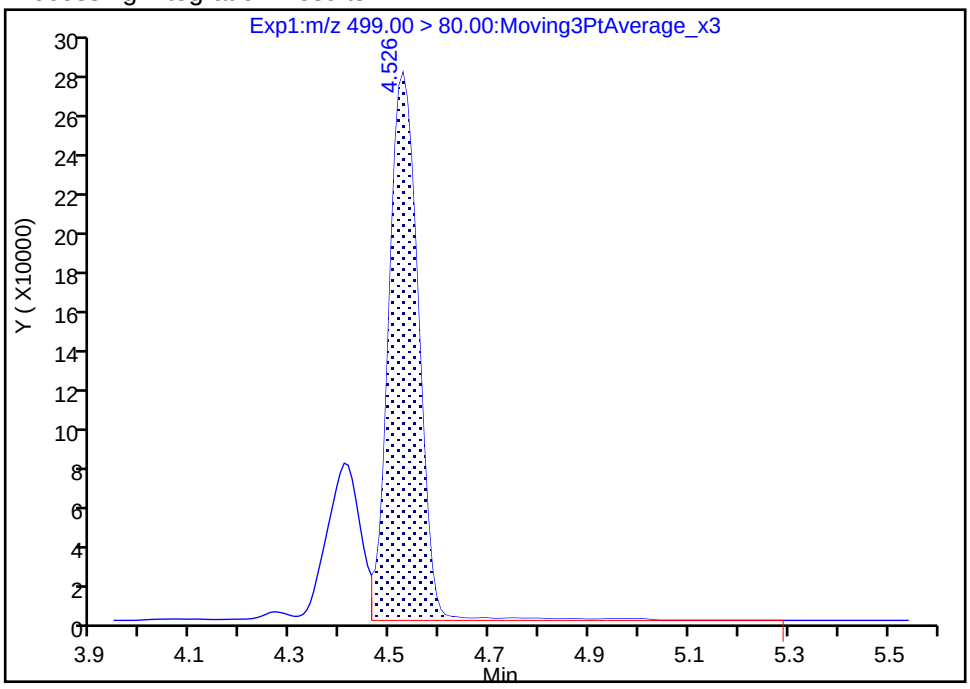
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_014.d
Injection Date: 25-Aug-2020 17:10:36 Instrument ID: A18
Lims ID: IC STD 4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 9 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

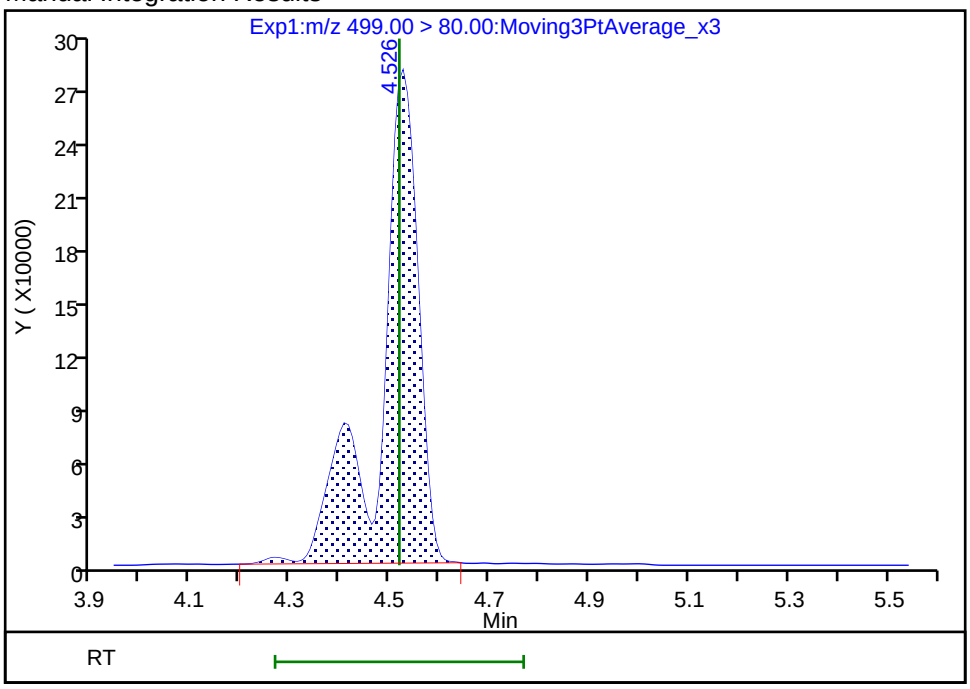
Processing Integration Results

RT: 4.53
Area: 1145570
Amount: 0.928000
Amount Units: ng/ml



Manual Integration Results

RT: 4.53
Area: 1484922
Amount: 0.979348
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 05:39:50
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_015.d
Lims ID: IC STD 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Aug-2020 17:19:42 ALS Bottle#: 10 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 5 (31)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:42:54 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 06:03:56
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.563	2.577	-0.014	0.621	16140239	2.68		107	8877	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.571	2.580	-0.009	1.003	15043941	2.68		107	594	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.927	2.941	-0.014	1.000	12932809	2.68		107	650	
D 4 13C5 PFPeA										
267.90 > 223.00	2.927	2.941	-0.014	0.709	12089027	2.58		103	5525	
D 9 13C3 PFBS										
301.90 > 80.00	2.971	2.977	-0.006	0.720	9254167	2.51		108	4619	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.971	2.982	-0.011	1.000	9615968	2.39	Target=2.30	108	1862	
298.90 > 99.00	2.971	2.982	-0.011	1.000	4058802		2.37(1.15-3.45)	108	1494	
8 4:2 FTS										
327.00 > 307.00	3.275	3.288	-0.013	1.000	5448117	2.60		111	11469	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.275	3.288	-0.013	0.793	2150089	2.42		104	893	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.317	3.334	-0.017	1.000	12827055	2.91	Target=13.78	116	949	
313.00 > 119.00	3.317	3.334	-0.017	1.000	892091		14.38(6.89-20.66)	116	650	
D 11 13C2 PFHxA										
315.00 > 270.00	3.317	3.334	-0.017	0.803	11442684	2.44		97.7	5599	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.338	3.349	-0.011	1.124	8302940	2.63	Target=3.02	112	1533	
349.00 > 99.00	3.338	3.349	-0.011	1.124	2685197		3.09(1.51-4.52)	112	1821	
13 HPFO-DA										
285.00 > 169.00	3.445	3.463	-0.018	1.000	2659360	2.66		106	4388	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.445	3.463	-0.018	0.834	2566383	2.68		107	5841	
D 18 13C4 PFHpA										
367.00 > 322.00	3.735	3.750	-0.015	0.905	11161570	2.79		112	7439	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.735	3.750	-0.015	1.000	11074099	2.45	Target=3.84	97.9	1174	
363.00 > 169.00	3.735	3.750	-0.015	1.000	3068041		3.61(1.92-5.76)	97.9	1775	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.735	3.752	-0.017	1.000	5498056	2.19	Target=3.50	96.1	1692	
399.00 > 99.00	3.735	3.752	-0.017	1.000	1605082		3.43(1.75-5.25)	96.1	1674	
D 17 18O2 PFHxS										
403.00 > 84.00	3.735	3.752	-0.017	0.905	5035082	2.59		109	7991	
19 DONA										
377.00 > 251.00	3.785	3.800	-0.015	0.841	35025003	2.58	Target=2.42	110	17958	
377.00 > 85.00	3.785	3.800	-0.015	0.841	14358153		2.44(1.21-3.63)	110	7919	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.112	4.127	-0.015	0.996	1860491	2.50		105	1144	
21 6:2 FTS										
427.00 > 407.00	4.112	4.127	-0.015	1.000	4467087	2.48		105	5382	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.129	4.143	-0.014	0.918	3963683	2.51	Target=4.40	105	1333	
449.00 > 99.00	4.129	4.143	-0.014	0.918	913129		4.34(2.20-6.60)	105	1165	
$ 26 13C8 PFOA										
421.00 > 376.00	4.129	4.147	-0.018	1.000	6198885	2.41		98.5	5212	
D 25 13C4 PFOA										
417.00 > 372.00	4.129	4.150	-0.021	1.000	9851180	2.59		103	9308	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.137	4.150	-0.013	1.002	10655191	2.65	Target=2.94	106	2159	
413.00 > 169.00	4.137	4.150	-0.013	1.002	3444552		3.09(1.47-4.41)	106	6385	
* 23 13C2 PFOA										
415.00 > 370.00	4.129	4.151	-0.022		9512827	2.50			5591	
$ 28 13C8 PFOS										
507.00 > 99.00	4.499	4.514	-0.015	1.090	1011458	2.46		103	3687	
D 27 13C4 PFOS										
503.00 > 80.00	4.499	4.516	-0.017	1.090	3380331	2.56		107	1454	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.499	4.518	-0.019	1.000	3665824	2.50	Target=4.53	108	828	M
499.00 > 99.00	4.499	4.518	-0.019	1.000	777070		4.72(2.26-6.79)	108	1084	
D 30 13C5 PFNA										
468.00 > 423.00	4.514	4.533	-0.019	1.093	8222813	2.68		107	9068	
31 Perfluorononanoic acid										
463.00 > 419.00	4.522	4.537	-0.015	1.002	9321539	2.96	Target=8.97	118	1522	
463.00 > 169.00	4.522	4.537	-0.015	1.002	959506		9.71(4.48-13.45)	118	1293	
32 9ClFOS										
531.00 > 351.00	4.707	4.724	-0.017	1.046	11467134	2.51		108	12560	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.817	4.830	-0.013	1.000	5530939	2.57		103	6370	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 33 13C8 FOSA										
506.00 > 78.00	4.817	4.830	-0.013	1.167	5772966	2.71		109	8563	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.852	4.868	-0.016	1.079	3293468	2.49	Target=2.85	104	1951	
549.00 > 99.00	4.852	4.868	-0.016	1.079	1170755		2.81(1.43-4.28)	104	1892	
D 39 13C2 PFDA										
515.00 > 470.00	4.878	4.892	-0.014	1.181	7417834	2.49		99.6	9359	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.878	4.896	-0.018	1.000	7439717	2.60	Target=10.16	104	2199	
513.00 > 169.00	4.878	4.896	-0.018	1.000	662102		11.24(5.08-15.24)	104	210	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.878	4.897	-0.019	1.181	2619467	2.44		102	1479	
36 8:2 FTS										
527.00 > 507.00	4.878	4.898	-0.020	1.000	5089997	2.62		109	13873	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.046	5.062	-0.016	1.222	5416409	2.71		108	4030	
41 NMeFOSAA										
570.00 > 419.00	5.046	5.065	-0.019	1.000	4084387	2.54		102	56428	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.173	5.191	-0.018	1.150	3000844	2.54	Target=2.77	105	2970	
599.00 > 99.00	5.173	5.191	-0.018	1.150	1030165		2.91(1.38-4.15)	105	5862	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.209	5.221	-0.012	0.998	5529773	2.72	Target=8.43	109	2841	
563.00 > 169.00	5.209	5.221	-0.012	0.998	639665		8.64(4.22-12.65)	109	1259	
D 43 13C2 PFUnA										
565.00 > 520.00	5.218	5.221	-0.003	1.264	7000959	2.37		94.9	7879	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.209	5.227	-0.018	1.262	5563223	2.63		105	3523	
46 NEtFOSA										
584.00 > 419.00	5.218	5.236	-0.018	1.002	4120421	2.74		110	1656	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.257	5.272	-0.015	1.273	6782732	12.9		103	2308	
48 N-MeFOSE-M										
616.00 > 59.00	5.277	5.285	-0.008	1.004	1681316	2.87		115	1739	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.287	5.295	-0.008	1.281	1985528	2.66		106	48.4	
50 NMeFOSA										
512.00 > 169.00	5.287	5.301	-0.014	1.000	2200383	2.88		115	641	
51 11ClFOS										
631.00 > 451.00	5.347	5.363	-0.016	1.189	15223672	2.62		111	16784	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.436	5.443	-0.007	1.317	9440764	14.6		117	1918	
53 N-EtFOSE-M										
630.00 > 59.00	5.446	5.456	-0.010	1.002	2201944	2.72		109	2278	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.457	5.471	-0.014	1.322	2020717	2.64		106	178	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.468	5.480	-0.012	1.002	2312855	2.70		108	443	
D 56 13C2 PFDoA										
615.00 > 570.00	5.502	5.521	-0.019	1.333	7116690	2.44		97.8	7277	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.502	5.523	-0.021	1.000	7914890	2.72	Target=9.12	108	3022	
613.00 > 169.00	5.502	5.523	-0.021	1.000	870587		9.09(4.56-13.69)	108	1381	
58 10:2 FTS										
627.00 > 607.00	5.528	5.541	-0.013	1.133	5554903	2.52		105	5321	
59 PFDoS										
699.00 > 80.00	5.733	5.751	-0.018	1.274	1144299	2.43	Target=0.72	100	1307	
699.00 > 99.00	5.733	5.751	-0.018	1.274	1664899		0.69(0.36-1.07)	100	4495	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.783	5.795	-0.012	1.051	7438469	2.78	Target=6.78	111	3236	
663.00 > 169.00	5.783	5.795	-0.012	1.051	1131272		6.58(3.39-10.17)	111	1874	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.022	6.038	-0.016	1.459	5963271	2.48		99.3	5312	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.022	6.041	-0.019	1.000	543432	2.70	Target=0.85	108	2135	
713.00 > 219.00	6.011	6.041	-0.030	0.998	642121		0.85(0.43-1.28)	108	2797	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.481	6.505	-0.024	1.570	4650620	2.65		106	5659	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.490	6.507	-0.017	1.001	4364853	2.65	Target=10.21	106	2744	
813.00 > 169.00	6.490	6.507	-0.017	1.001	394899		11.05(5.11-15.32)	106	1855	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.983	7.009	-0.026	1.077	3501130	2.85	Target=12.45	114	2317	
913.00 > 169.00	6.983	7.009	-0.026	1.077	267349		13.10(6.22-18.67)	114	1813	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL5_00031 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:42:56 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_015.d

Injection Date: 25-Aug-2020 17:19:42 Instrument ID: A18

Lims ID: IC STD 5

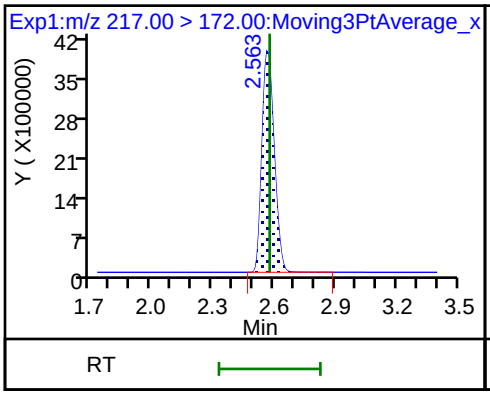
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 10 Worklist Smp#: 6

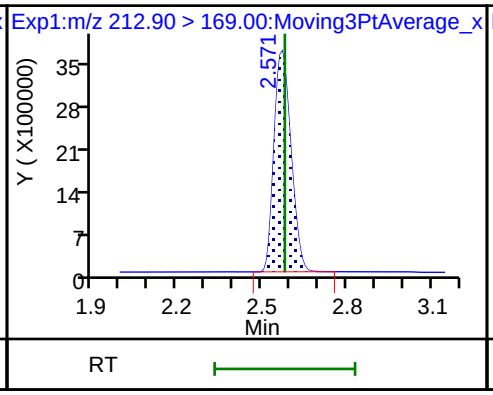
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

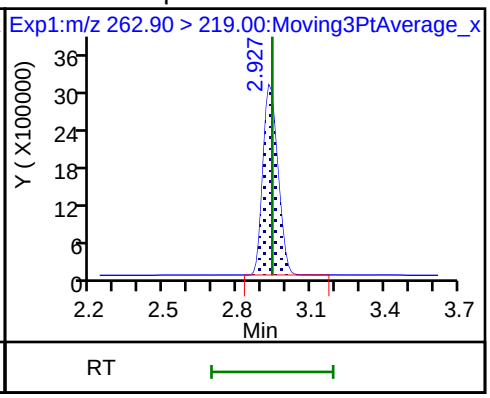
D 1 13C4 PFBA



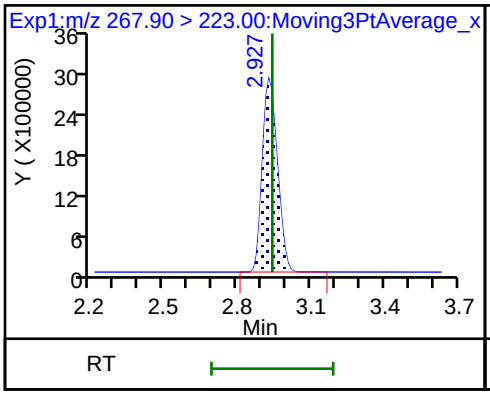
2 Perfluorobutanoic acid



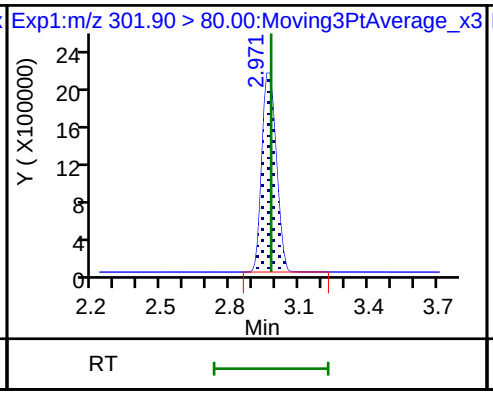
5 Perfluoropentanoic acid



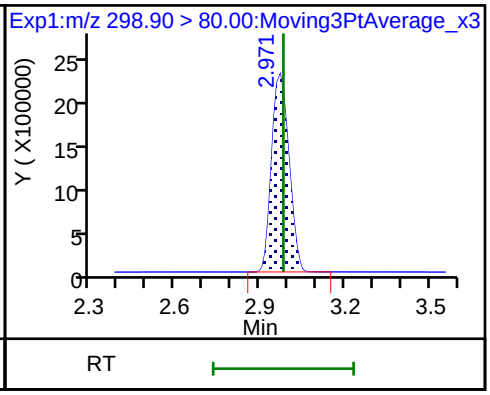
D 4 13C5 PFPeA



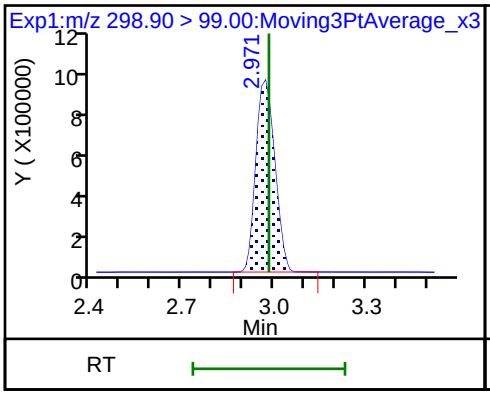
D 9 13C3 PFBS



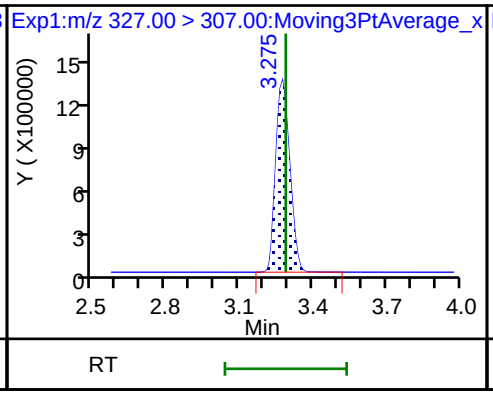
6 Perfluorobutanesulfonic acid



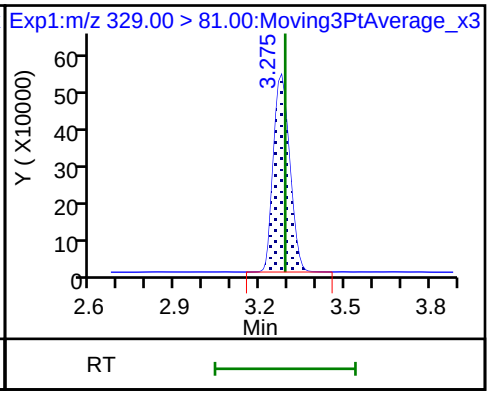
6 Perfluorobutanesulfonic acid



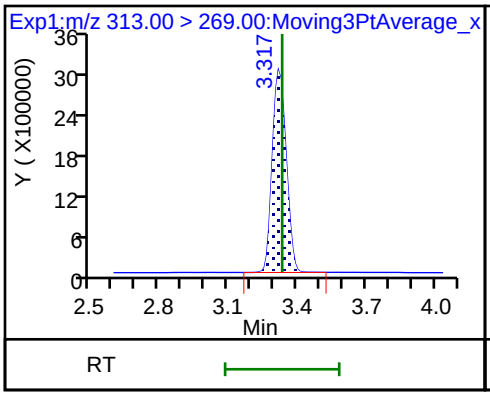
8 4:2 FTS



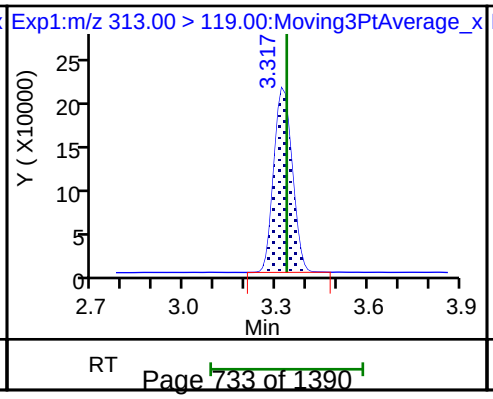
D 7 M2-4:2 FTS



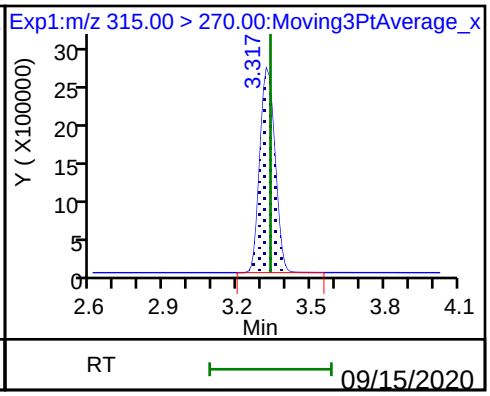
10 Perfluorohexanoic acid



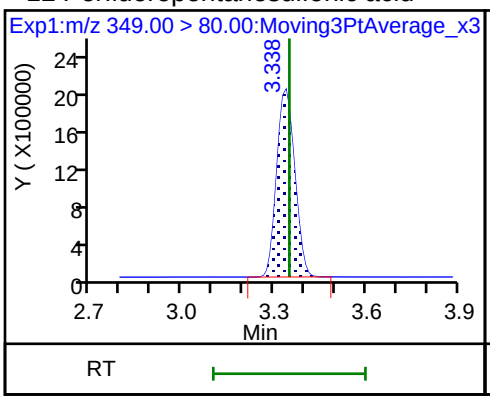
10 Perfluorohexanoic acid



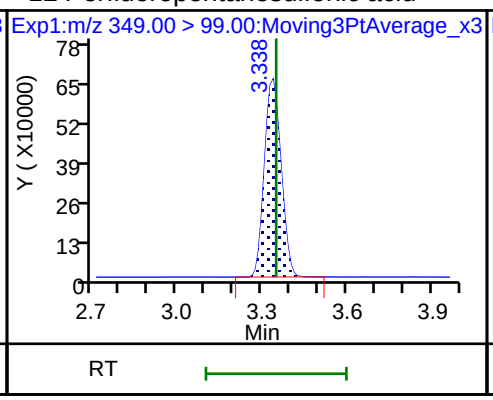
D 11 13C2 PFHxA



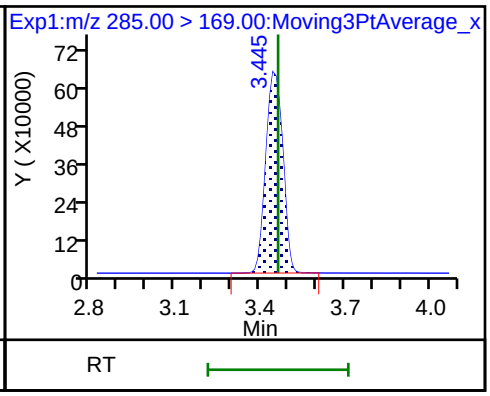
12 Perfluoropentanesulfonic acid



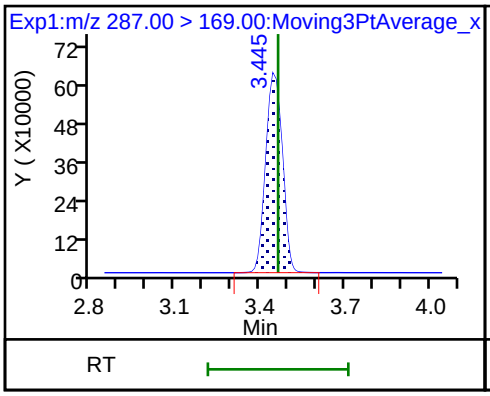
12 Perfluoropentanesulfonic acid



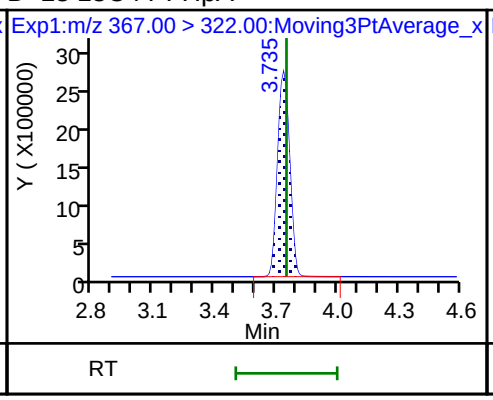
13 HPFO-DA



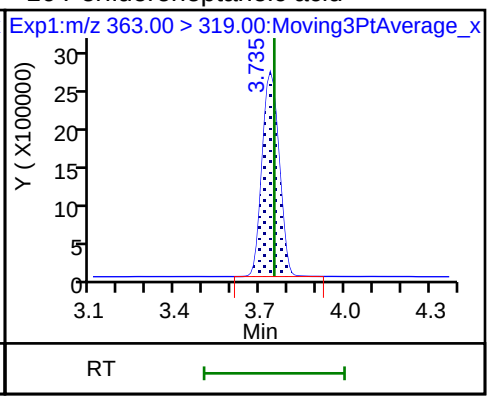
D 14 13C3 HFPO-DA



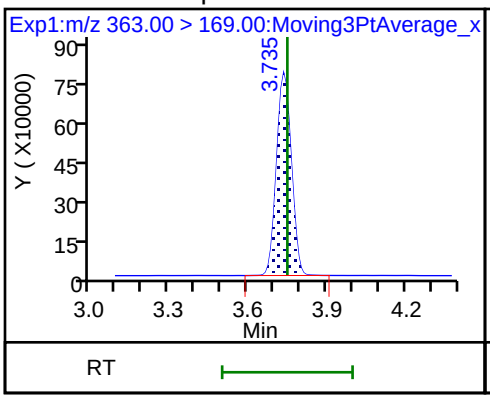
D 18 13C4 PFHpA



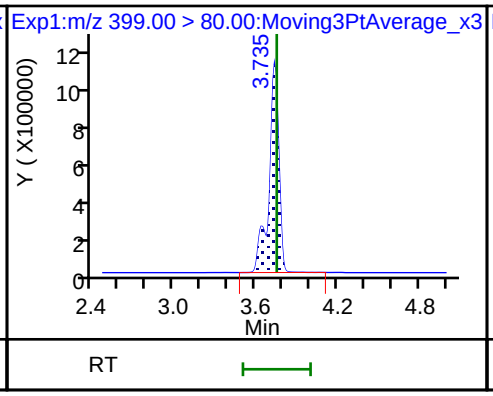
16 Perfluoroheptanoic acid



16 Perfluoroheptanoic acid



15 Perfluorohexanesulfonic acid



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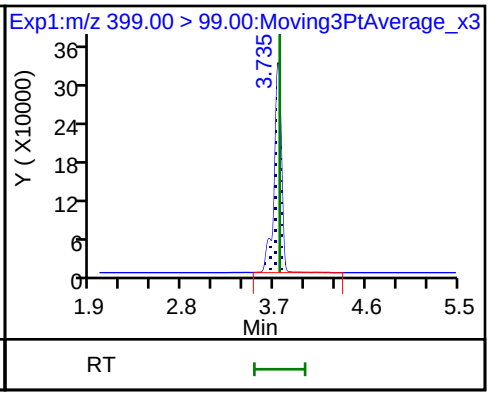
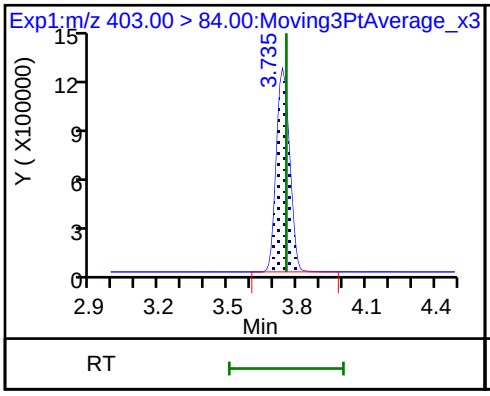
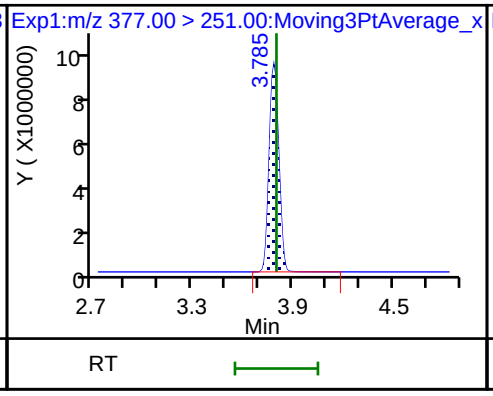


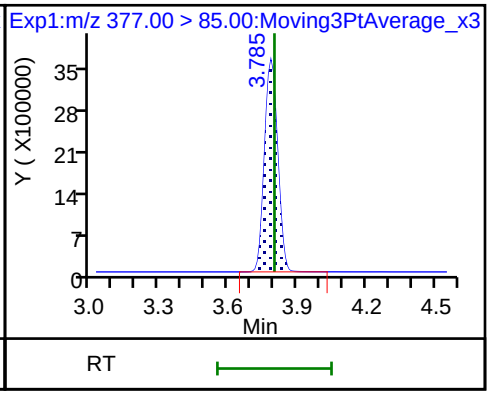
D 17 18O2 PFHxS



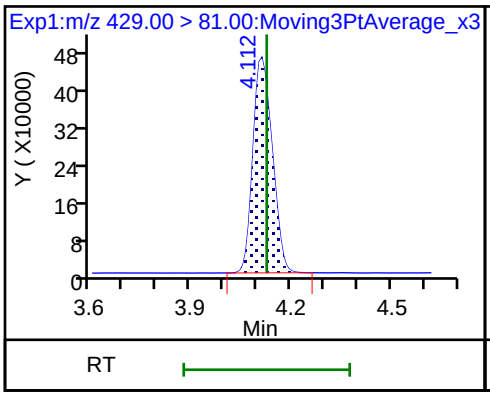
19 DONA



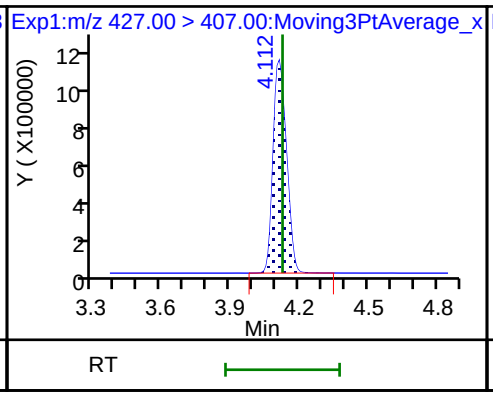
19 DONA



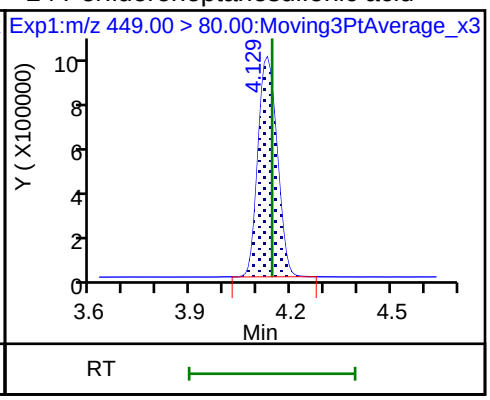
D 20 M2-6:2 FTS



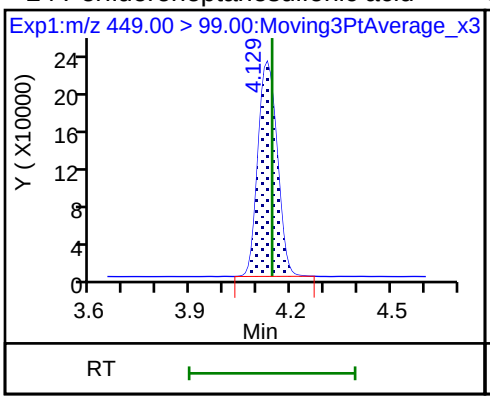
21 6:2 FTS



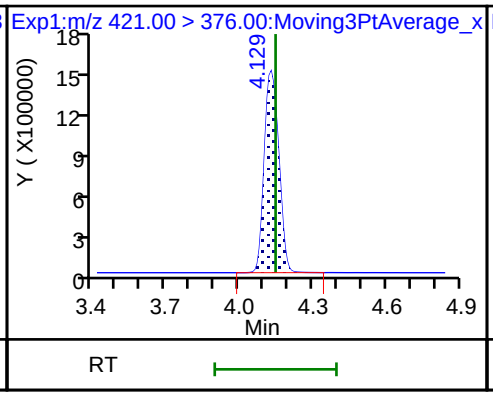
24 Perfluoroheptanesulfonic acid



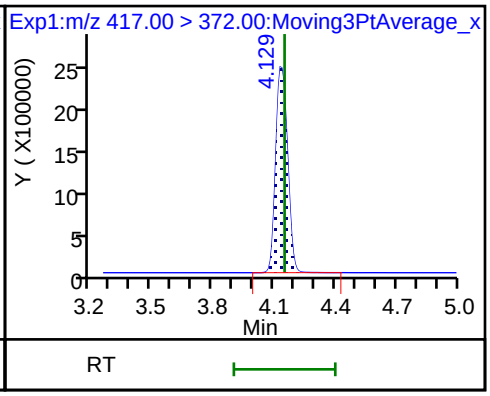
24 Perfluoroheptanesulfonic acid



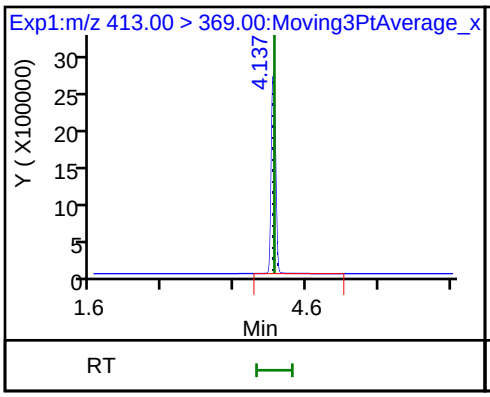
$ 26 13C8 PFOA



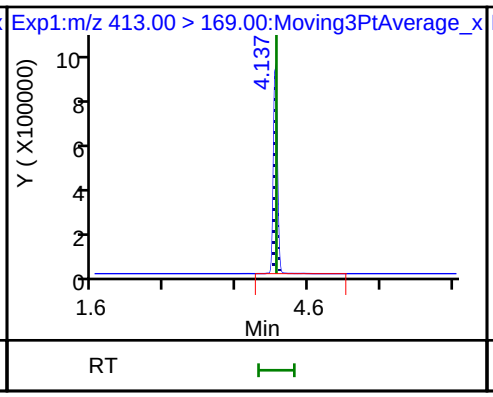
D 25 13C4 PFOA



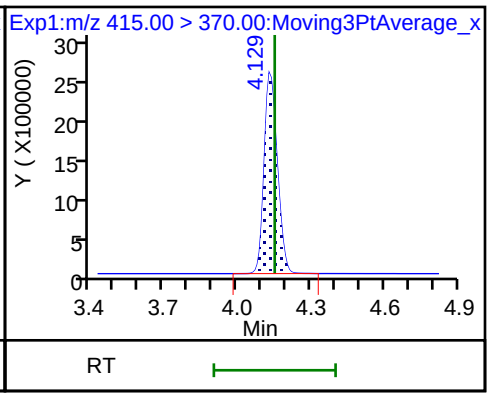
22 Perfluorooctanoic acid



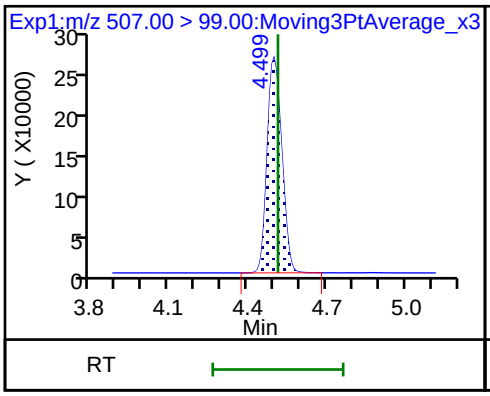
22 Perfluorooctanoic acid



* 23 13C2 PFOA



$ 28 13C8 PFOS



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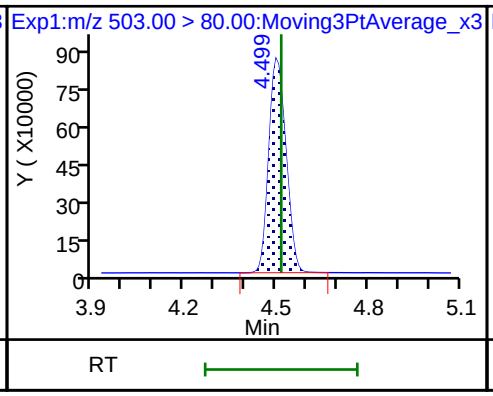
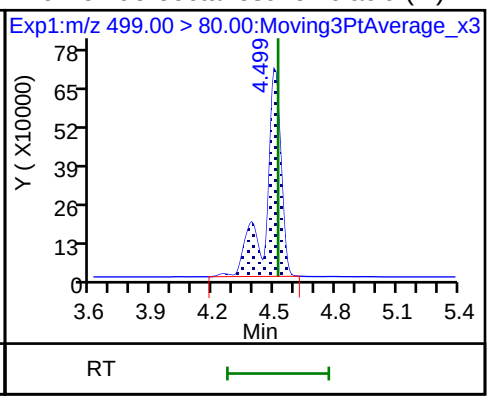
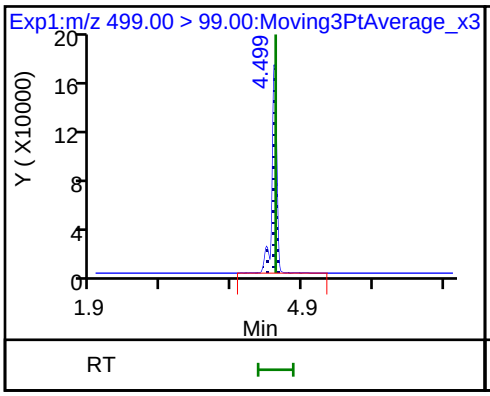


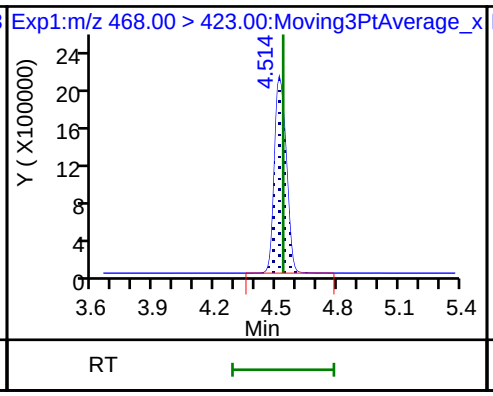
29 Perfluorooctanesulfonic acid (M)



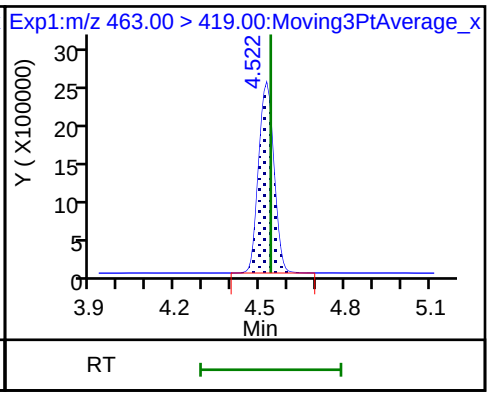
29 Perfluorooctanesulfonic acid



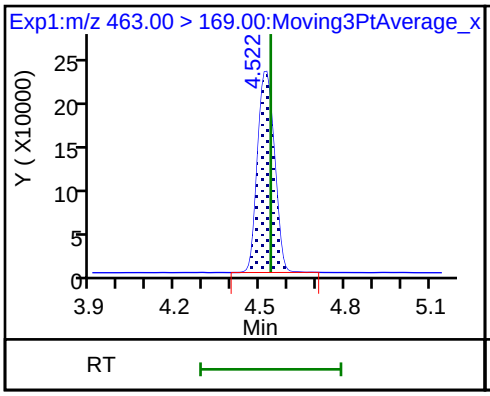
D 30 13C5 PFNA



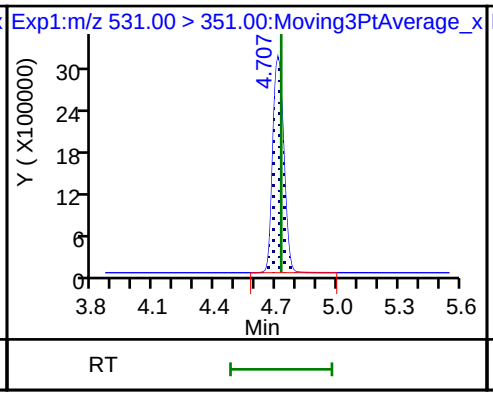
31 Perfluorononanoic acid



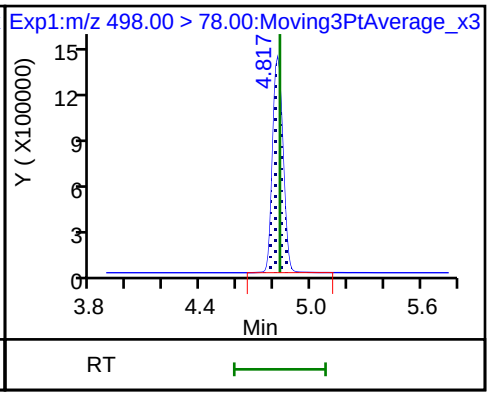
31 Perfluorononanoic acid



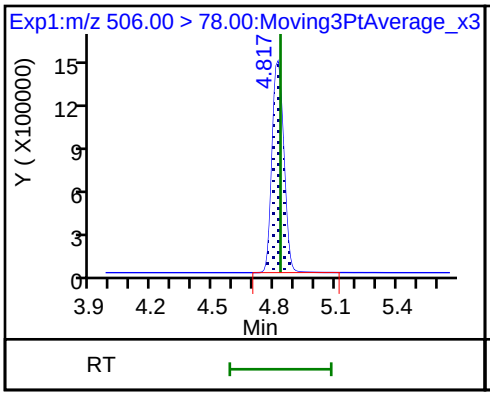
32 9ClFOS



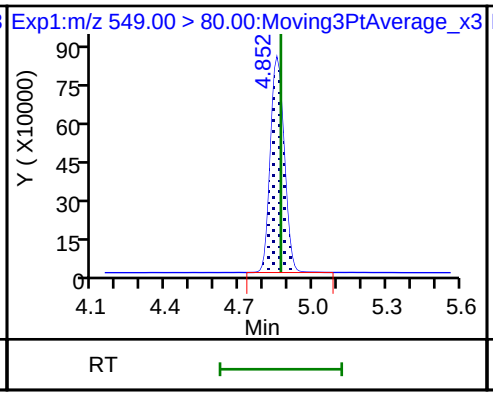
34 Perfluorooctanesulfonamide



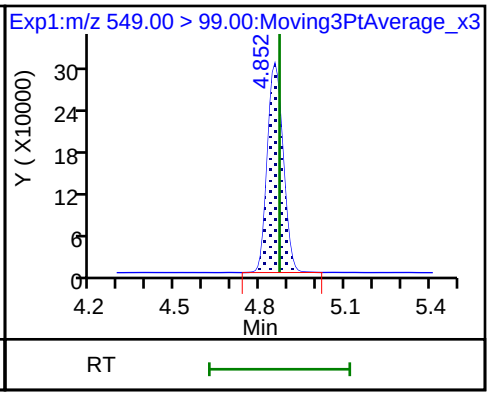
D 33 13C8 FOSA



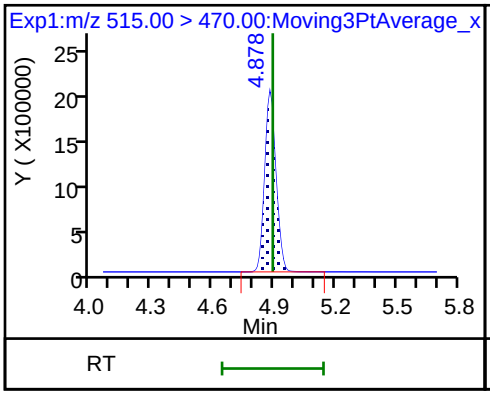
35 Perfluorononanesulfonic acid



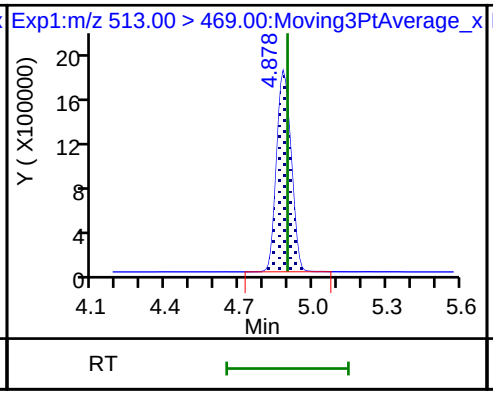
35 Perfluorononanesulfonic acid



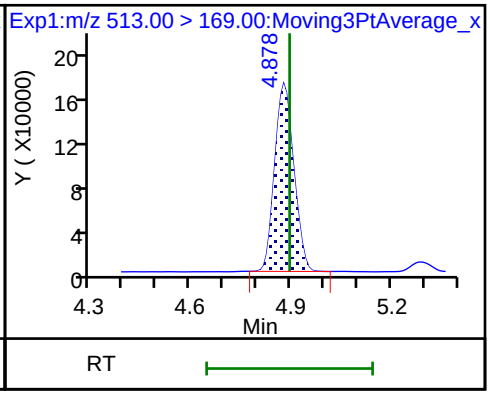
D 39 13C2 PFDA



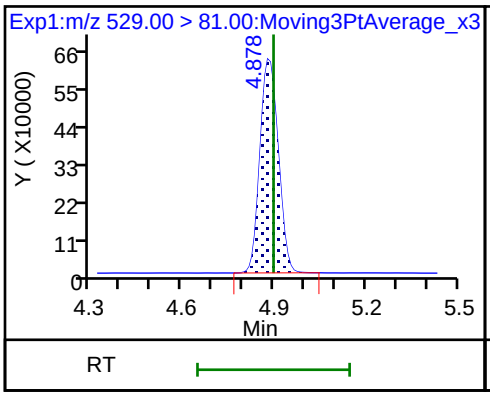
37 Perfluorodecanoic acid



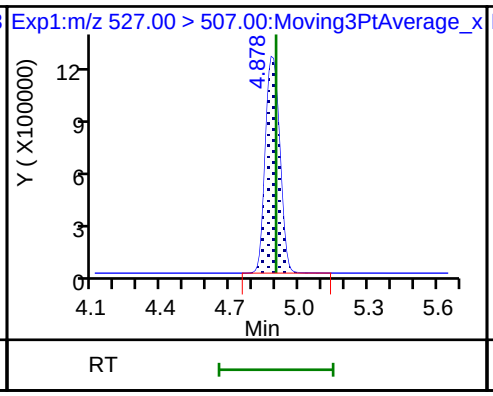
37 Perfluorodecanoic acid



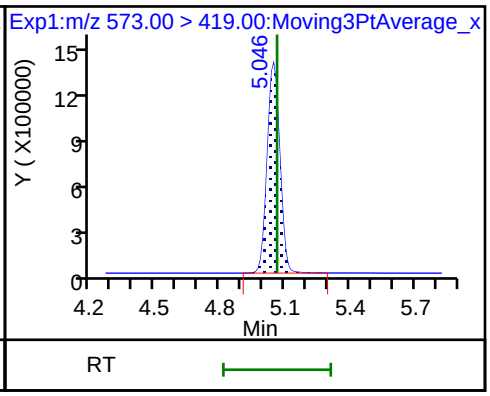
D 38 M2-8:2 FTS



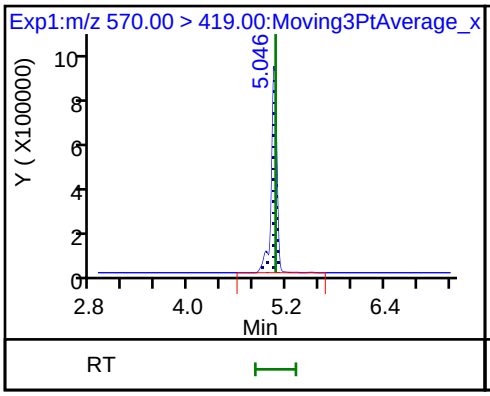
36 8:2 FTS



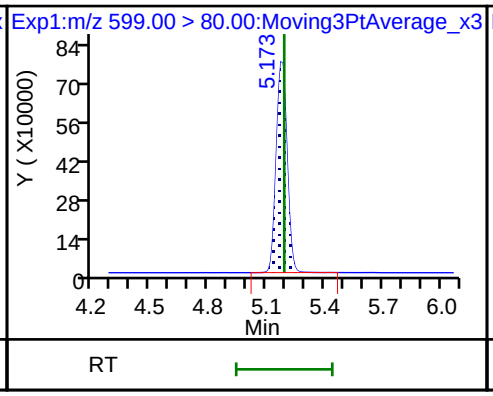
D 40 d3-NMeFOSAA



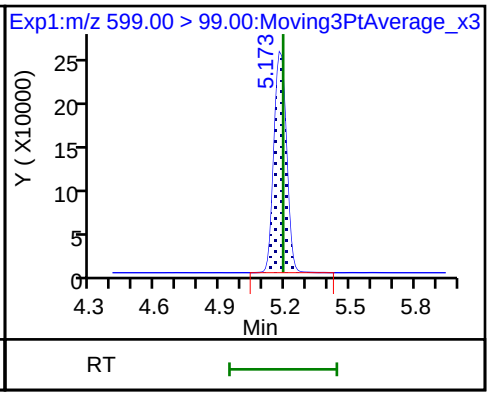
41 NMeFOSAA



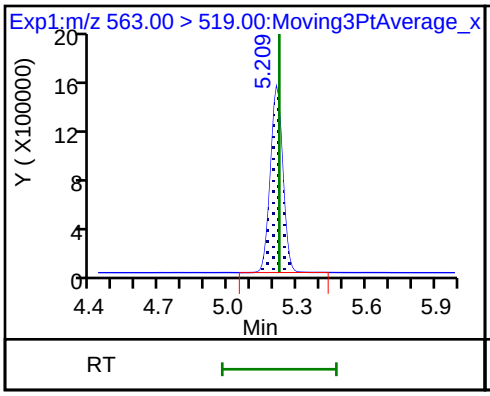
42 Perfluorodecanesulfonic acid



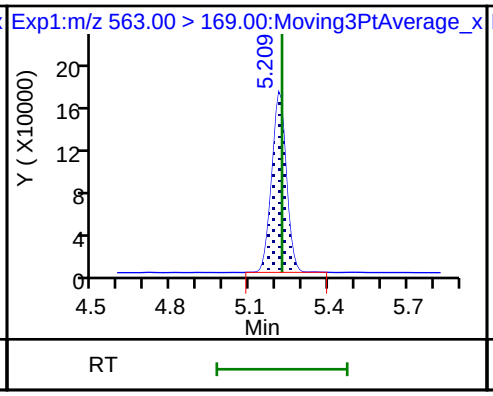
42 Perfluorodecanesulfonic acid



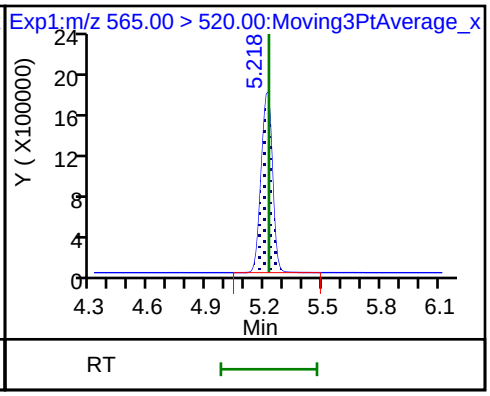
45 Perfluoroundecanoic acid



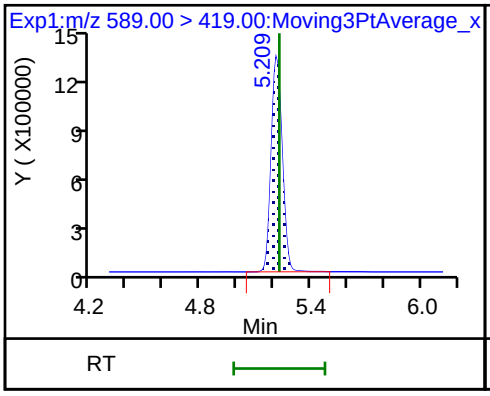
45 Perfluoroundecanoic acid



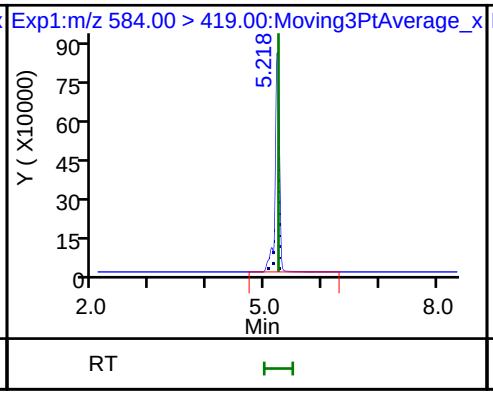
D 43 13C2 PFUnA



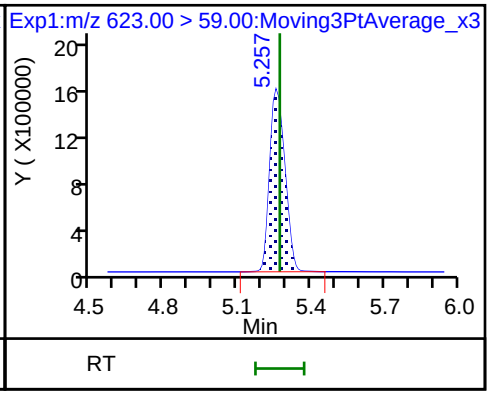
D 44 d5-NEtFOSAA



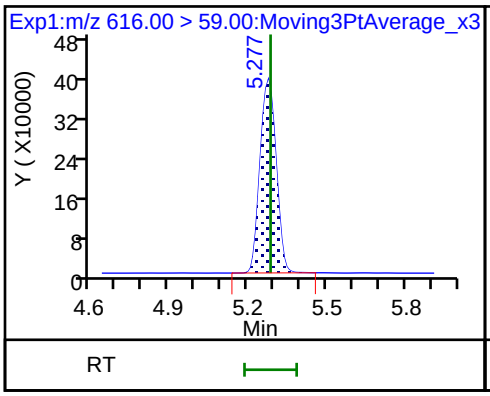
46 NEtFOSA



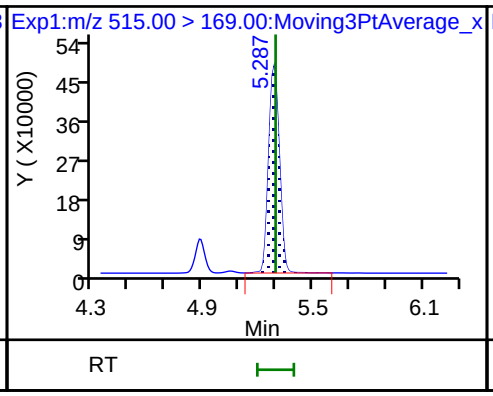
D 47 d7-N-MeFOSE-M



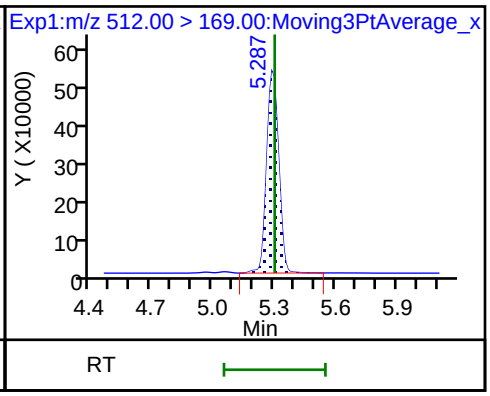
48 N-MeFOSE-M



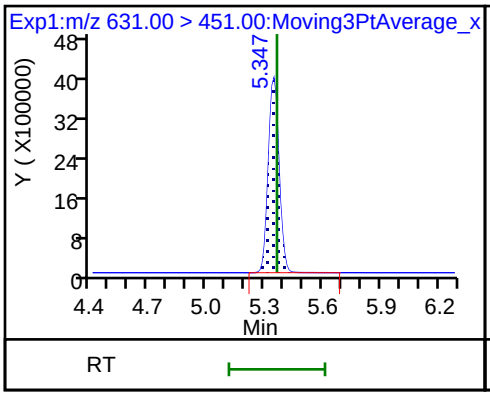
D 49 d-N-MeFOSA-M



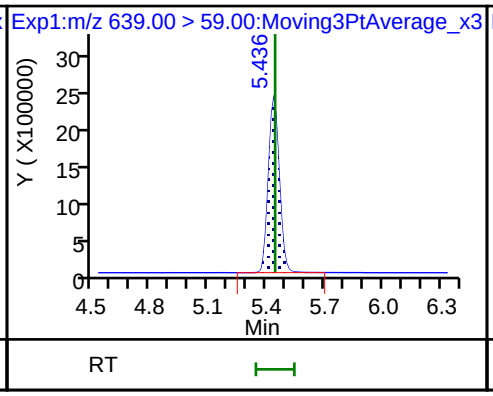
50 NMeFOSA



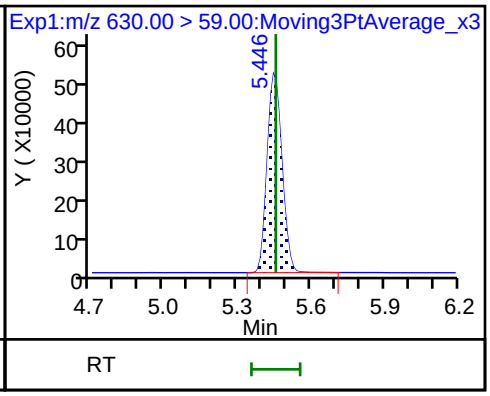
51 11ClFOS



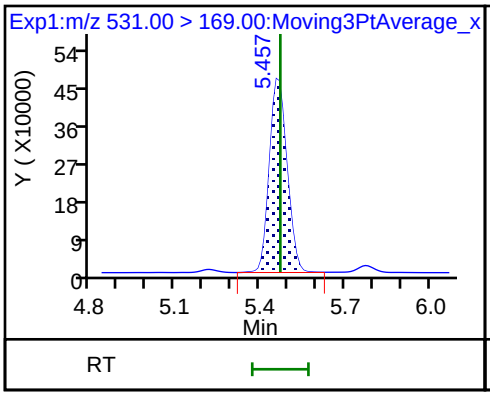
D 52 d9-N-EtFOSE-M



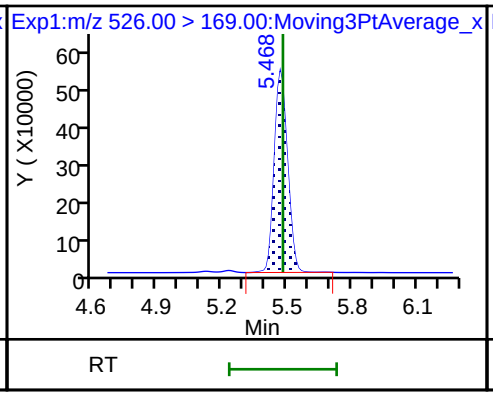
53 N-EtFOSE-M



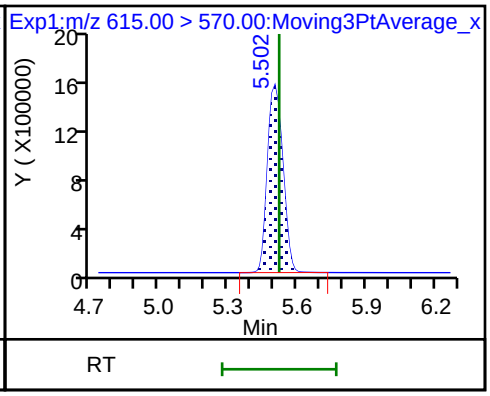
D 54 d-N-EtFOSA-M



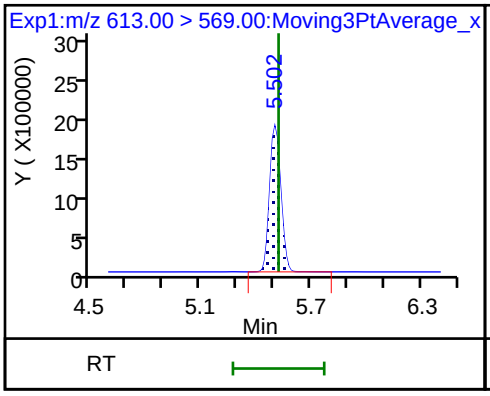
55 N-EtFOSA-M



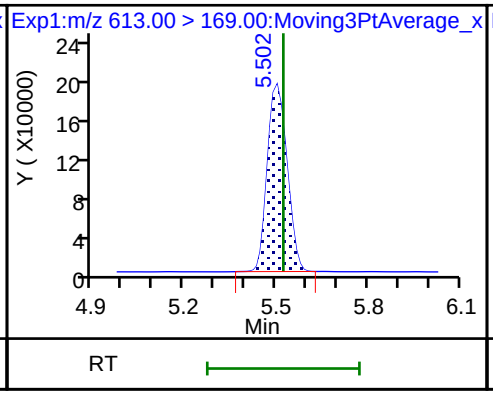
D 56 13C2 PFDoA



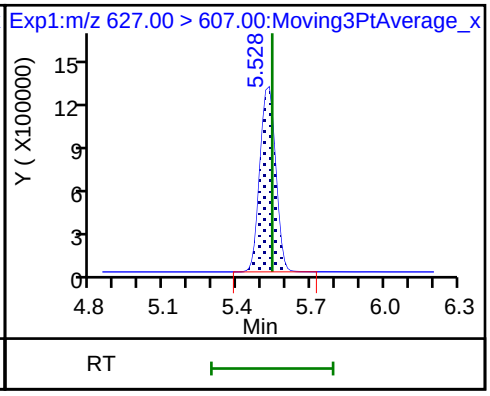
57 Perfluorododecanoic acid



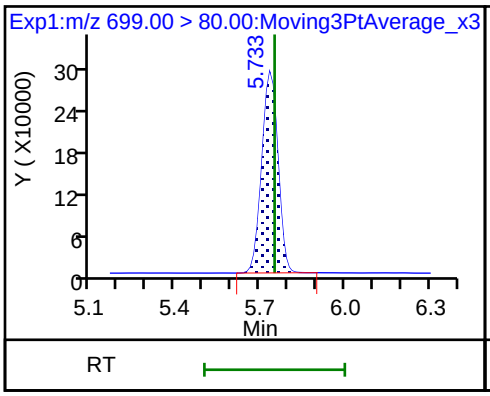
57 Perfluorododecanoic acid



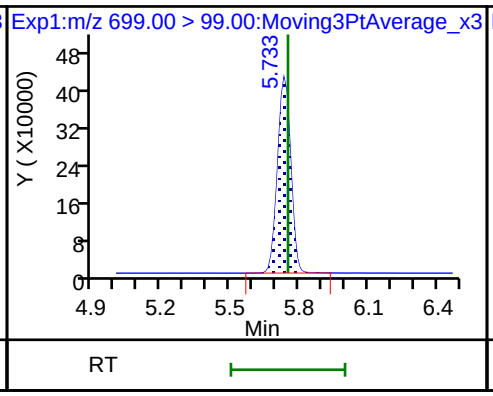
58 10:2 FTS



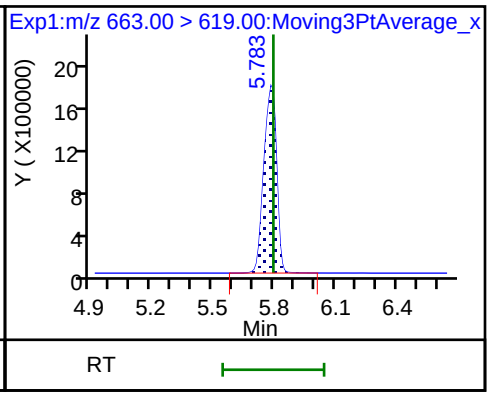
59 PFDoS



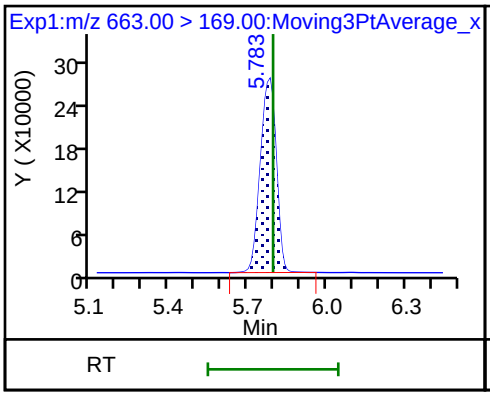
59 PFDoS



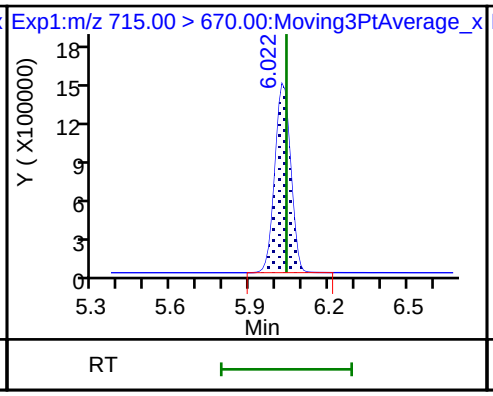
60 Perfluorotridecanoic acid



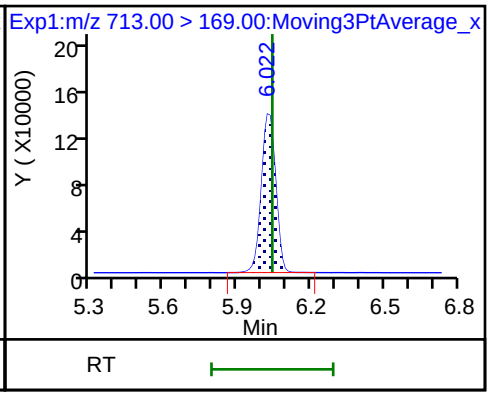
60 Perfluorotridecanoic acid



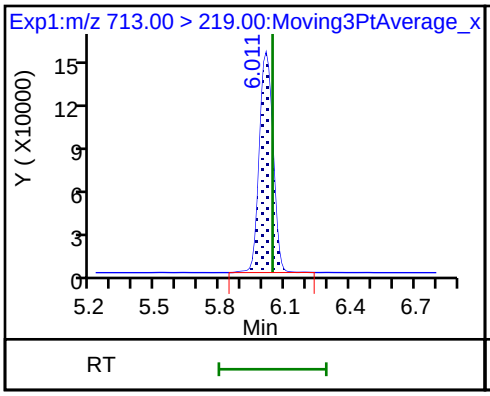
D 61 13C2 PFTeDA



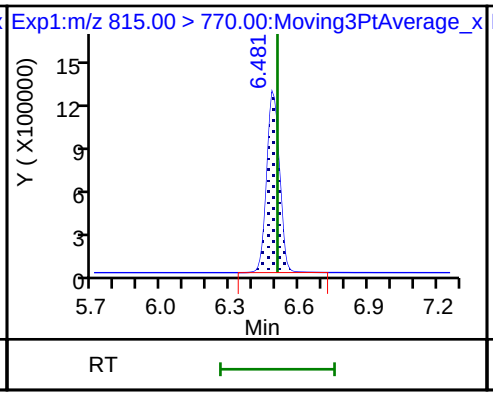
62 Perfluorotetradecanoic acid



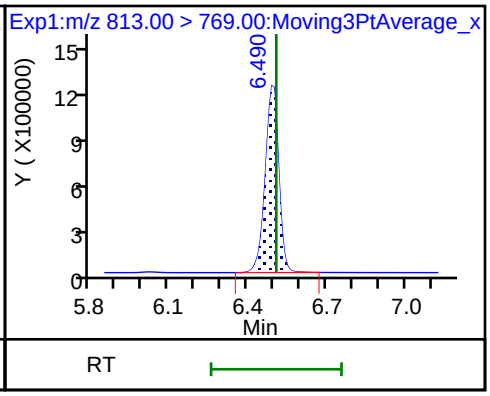
62 Perfluorotetradecanoic acid



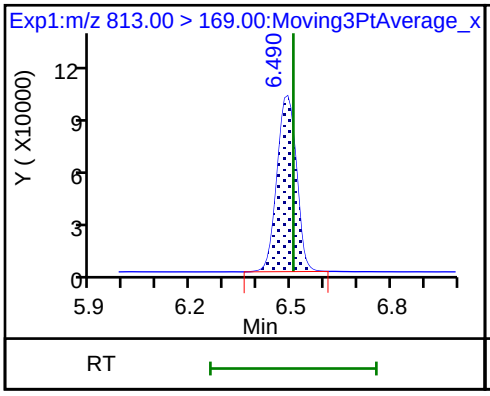
D 64 13C2 PFHxDA



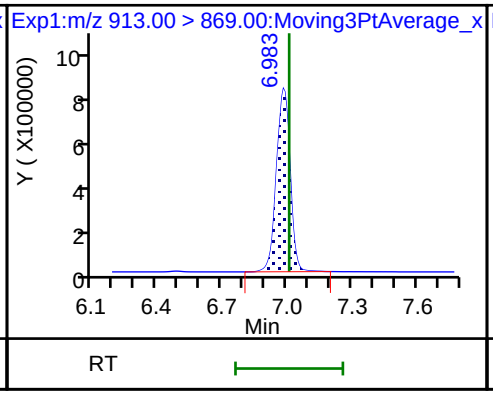
63 Perfluorohexadecanoic acid



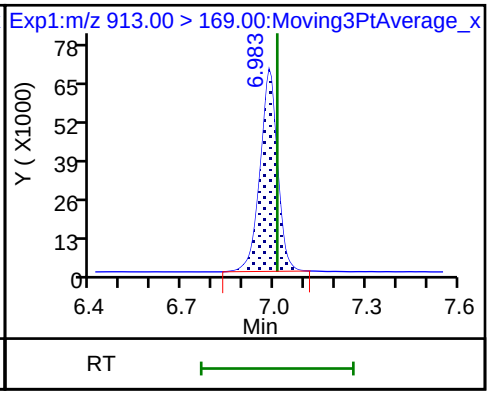
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

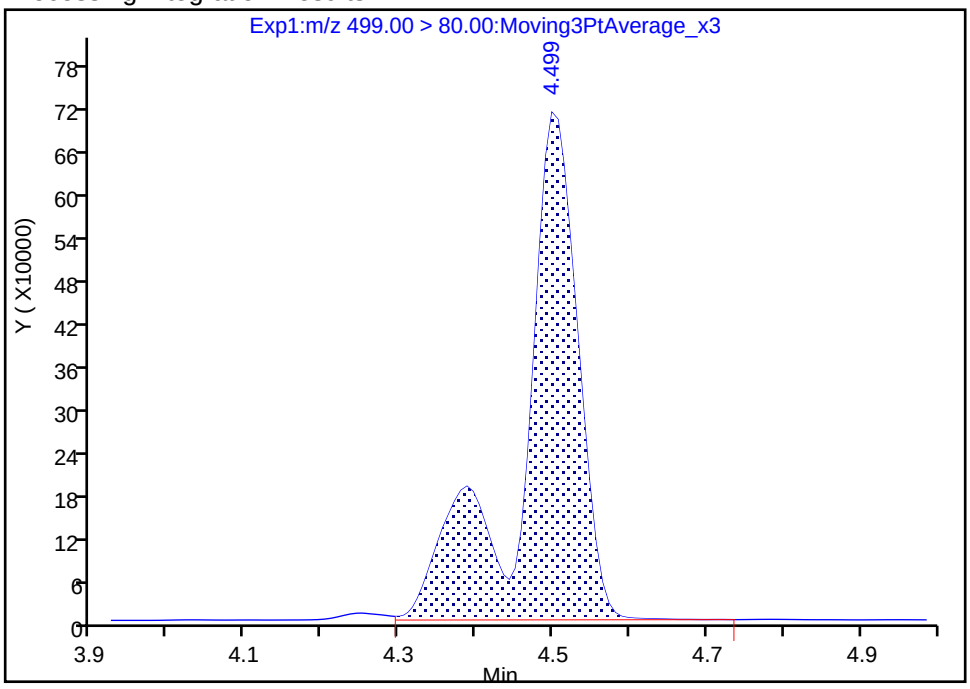
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_015.d
Injection Date: 25-Aug-2020 17:19:42 Instrument ID: A18
Lims ID: IC STD 5
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 10 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

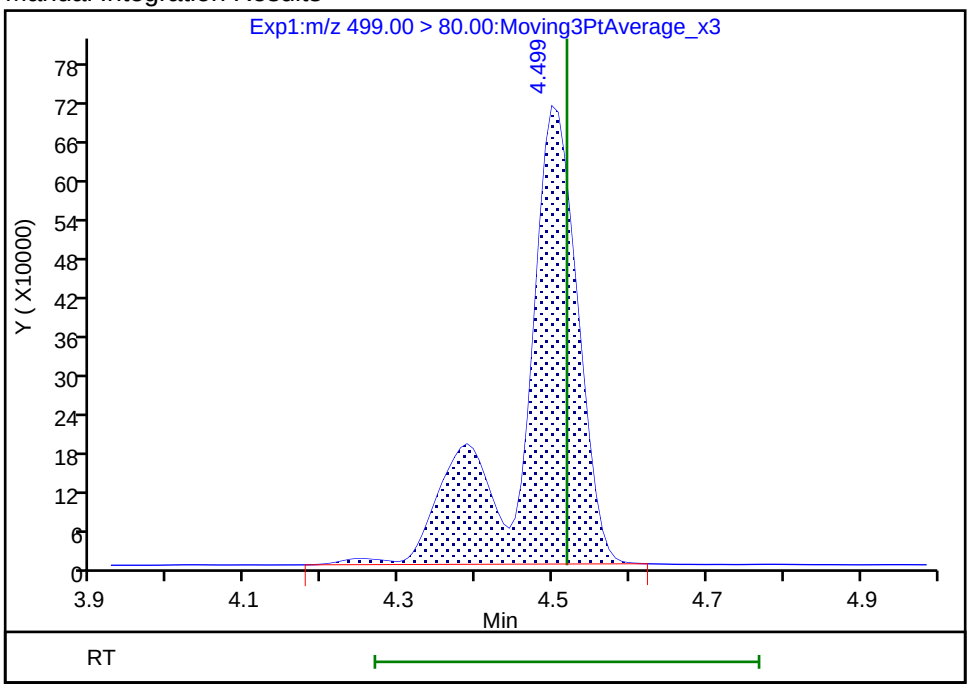
Processing Integration Results

RT: 4.50
Area: 3654200
Amount: 2.594584
Amount Units: ng/ml



Manual Integration Results

RT: 4.50
Area: 3665824
Amount: 2.504118
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:03:38
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_016.d
Lims ID: IC STD 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Aug-2020 17:28:48 ALS Bottle#: 11 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 6 (25)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:43:03 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 06:04:46
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.587	2.577	0.010	0.622	17071288	2.45		98.0	7993	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.587	2.580	0.007	1.000	30004201	5.06		101	1186	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.947	2.941	0.006	1.000	25936244	4.74		94.9	1336	
D 4 13C5 PFPeA										
267.90 > 223.00	2.947	2.941	0.006	0.708	13713409	2.53		101	5569	
D 9 13C3 PFBS										
301.90 > 80.00	2.982	2.977	0.005	0.717	9495273	2.23		95.9	4260	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.994	2.982	0.012	1.004	18549061	4.50	Target=2.30	102	3368	
298.90 > 99.00	2.994	2.982	0.012	1.004	7898606		2.35(1.15-3.45)	102	2690	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.295	3.288	0.007	0.792	2232877	2.18		93.2	971	
8 4:2 FTS										
327.00 > 307.00	3.295	3.288	0.007	1.000	10586753	4.87		104	13361	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.338	3.334	0.004	1.000	24185372	4.53	Target=13.78	90.7	1642	
313.00 > 119.00	3.338	3.334	0.004	1.000	1888643		12.81(6.89-20.66)	90.7	1221	
D 11 13C2 PFHxA										
315.00 > 270.00	3.338	3.334	0.004	0.802	13833154	2.56		102	5449	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.359	3.349	0.010	1.126	15346854	4.74	Target=3.02	101	3025	
349.00 > 99.00	3.359	3.349	0.010	1.126	5149483		2.98(1.51-4.52)	101	2248	
13 HPFO-DA										
285.00 > 169.00	3.476	3.463	0.013	1.000	5287445	5.08		102	4592	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.476	3.463	0.013	0.836	2670374	2.41		96.5	4914	
D 18 13C4 PFHpA										
367.00 > 322.00	3.755	3.750	0.005	0.902	11337825	2.45		98.2	6779	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.755	3.750	0.005	1.000	23268900	5.06	Target=3.84	101	2392	
363.00 > 169.00	3.764	3.750	0.014	1.003	6137409		3.79(1.92-5.76)	101	3098	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.764	3.752	0.012	1.000	11177725	4.39	Target=3.50	96.4	5252	
399.00 > 99.00	3.764	3.752	0.012	1.000	3205606		3.49(1.75-5.25)	96.4	3724	
D 17 18O2 PFHxS										
403.00 > 84.00	3.764	3.752	0.012	0.905	5100068	2.27		95.9	5111	
19 DONA										
377.00 > 251.00	3.811	3.800	0.011	0.843	66616540	4.76	Target=2.42	101	21114	
377.00 > 85.00	3.811	3.800	0.011	0.843	27995843		2.38(1.21-3.63)	101	9275	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.136	4.127	0.009	0.994	1859778	2.16		91.0	1289	
21 6:2 FTS										
427.00 > 407.00	4.136	4.127	0.009	1.000	8115080	4.51		95.1	6654	
* 23 13C2 PFOA										
415.00 > 370.00	4.161	4.151	0.010		10989918	2.50			6306	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.152	4.143	0.009	0.918	7960398	4.88	Target=4.40	103	2507	
449.00 > 99.00	4.152	4.143	0.009	0.918	1834088		4.34(2.20-6.60)	103	1847	
$ 26 13C8 PFOA										
421.00 > 376.00	4.152	4.147	0.005	0.998	6660436	2.24		91.6	4520	
D 25 13C4 PFOA										
417.00 > 372.00	4.161	4.150	0.011	1.000	10986603	2.50		99.9	9240	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.161	4.150	0.011	1.000	19956418	4.45	Target=2.94	89.0	4015	
413.00 > 169.00	4.161	4.150	0.011	1.000	6809040		2.93(1.47-4.41)	89.0	11537	
$ 28 13C8 PFOS										
507.00 > 99.00	4.521	4.514	0.007	1.087	1111635	2.34		97.8	2881	
D 27 13C4 PFOS										
503.00 > 80.00	4.521	4.516	0.005	1.087	3486990	2.29		95.8	1540	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.521	4.518	0.003	1.000	7186938	4.76	Target=4.53	103	1207	M
499.00 > 99.00	4.521	4.518	0.003	1.000	1488684		4.83(2.26-6.79)	103	1322	
D 30 13C5 PFNA										
468.00 > 423.00	4.538	4.533	0.005	1.091	8038803	2.27		90.7	8847	
31 Perfluorononanoic acid										
463.00 > 419.00	4.538	4.537	0.001	1.000	15126434	4.91	Target=8.97	98.1	2004	
463.00 > 169.00	4.538	4.537	0.001	1.000	1764451		8.57(4.48-13.45)	98.1	1644	
32 9ClFOS										
531.00 > 351.00	4.734	4.724	0.010	1.047	23116216	4.90		105	28943	
D 33 13C8 FOSA										
506.00 > 78.00	4.841	4.830	0.011	1.163	5954676	2.42		96.9	7398	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.841	4.830	0.011	1.000	10924659	4.93		98.6	8467	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.875	4.868	0.007	1.078	6654063	4.87	Target=2.85	101	3561	
549.00 > 99.00	4.875	4.868	0.007	1.078	2392228		2.78(1.43-4.28)	101	3224	
D 39 13C2 PFDA										
515.00 > 470.00	4.902	4.892	0.010	1.178	7862594	2.28		91.4	9831	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.902	4.896	0.006	1.000	14925465	4.92	Target=10.16	98.5	4286	
513.00 > 169.00	4.902	4.896	0.006	1.000	1559590		9.57(5.08-15.24)	98.5	202	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.902	4.897	0.005	1.178	2559241	2.06		86.1	1488	
36 8:2 FTS										
527.00 > 507.00	4.912	4.898	0.014	1.002	9239140	4.87		102	18048	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.069	5.062	0.007	1.218	5620374	2.43		97.3	6069	
41 NMeFOSAA										
570.00 > 419.00	5.069	5.065	0.004	1.000	8891336	5.33		107	41230	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.197	5.191	0.006	1.149	6052828	4.97	Target=2.77	103	4927	
599.00 > 99.00	5.197	5.191	0.006	1.149	2101230		2.88(1.38-4.15)	103	3772	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.233	5.221	0.012	1.002	12270214	4.90	Target=8.43	98.0	4768	
563.00 > 169.00	5.224	5.221	0.003	1.000	1595674		7.69(4.22-12.65)	98.0	2318	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.233	5.227	0.006	1.258	5507372	2.25		90.2	4616	
D 43 13C2 PFUnA										
565.00 > 520.00	5.224	5.221	0.003	1.256	8633431	2.53		101	9943	
46 NEtFOSA										
584.00 > 419.00	5.243	5.236	0.007	1.002	8399275	5.64		113	45993	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.284	5.272	0.012	1.270	7664729	12.6		101	4162	
48 N-MeFOSE-M										
616.00 > 59.00	5.294	5.285	0.009	1.002	3296405	4.98		99.6	2768	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.304	5.295	0.009	1.275	2255932	2.61		104	77.7	
50 NMeFOSA										
512.00 > 169.00	5.314	5.301	0.013	1.002	4360251	5.03		101	871	
51 11ClFOS										
631.00 > 451.00	5.370	5.363	0.007	1.188	30101960	5.03		107	152081	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.450	5.443	0.007	1.310	8444122	11.3		90.4	1706	
53 N-EtFOSE-M										
630.00 > 59.00	5.461	5.456	0.005	1.002	3886177	5.36		107	2931	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.483	5.471	0.012	1.318	2325340	2.63		105	123	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.483	5.480	0.003	1.000	4663831	4.74		94.7	525	
D 56 13C2 PFDoA										
615.00 > 570.00	5.522	5.521	0.001	1.327	7892285	2.35		93.9	9987	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.535	5.523	0.011	1.002	15608260	4.84	Target=9.12	96.7	4969	
613.00 > 169.00	5.522	5.523	-0.001	1.000	1677973		9.30(4.56-13.69)	96.7	2033	
58 10:2 FTS										
627.00 > 607.00	5.547	5.541	0.006	1.132	10619740	4.93		102	15203	
59 PFDoS										
699.00 > 80.00	5.749	5.751	-0.002	1.272	2399332	4.94	Target=0.72	102	2421	
699.00 > 99.00	5.749	5.751	-0.002	1.272	3427368		0.70(0.36-1.07)	102	5632	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.788	5.795	-0.007	1.048	14166734	4.77	Target=6.78	95.4	3912	
663.00 > 169.00	5.788	5.795	-0.007	1.048	1930040		7.34(3.39-10.17)	95.4	1997	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.036	6.038	-0.002	1.451	7148108	2.58		103	7718	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.036	6.041	-0.005	1.000	1203652	4.99	Target=0.85	99.8	4214	
713.00 > 219.00	6.026	6.041	-0.015	0.998	1240663		0.97(0.43-1.28)	99.8	3471	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.501	6.505	-0.004	1.562	5029525	2.48		99.1	6072	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.501	6.507	-0.006	1.000	8100551	4.57	Target=10.21	91.3	3300	
813.00 > 169.00	6.494	6.507	-0.013	0.999	884514		9.16(5.11-15.32)	91.3	2841	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.991	7.009	-0.018	1.075	6103585	4.59	Target=12.45	91.9	3205	
913.00 > 169.00	6.991	7.009	-0.018	1.075	562621		10.85(6.22-18.67)	91.9	2378	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL6_00025 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:43:05 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_016.d

Injection Date: 25-Aug-2020 17:28:48 Instrument ID: A18

Lims ID: IC STD 6

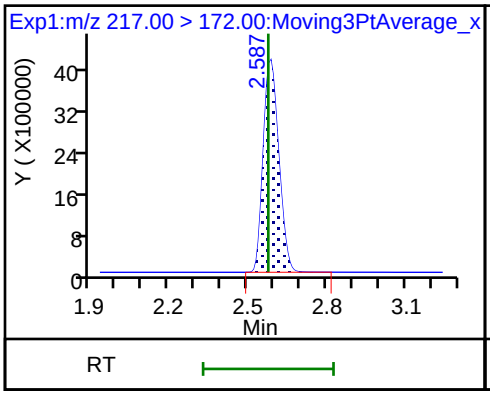
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 11 Worklist Smp#: 7

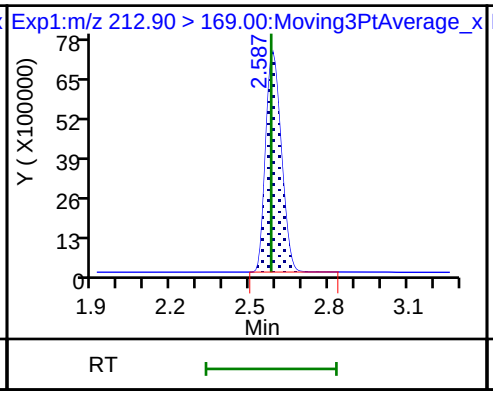
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

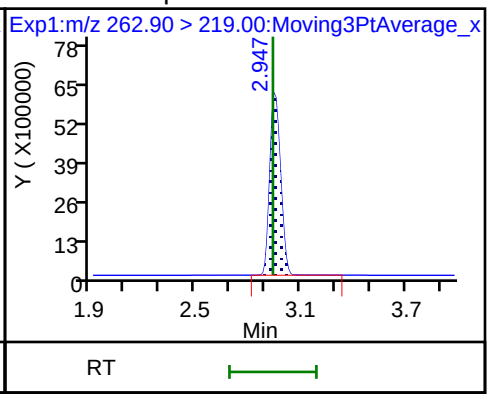
D 1 13C4 PFBA



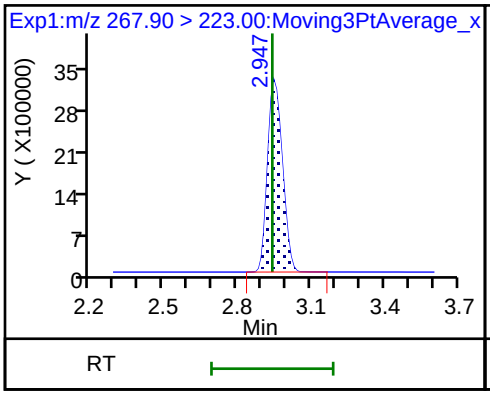
2 Perfluorobutanoic acid



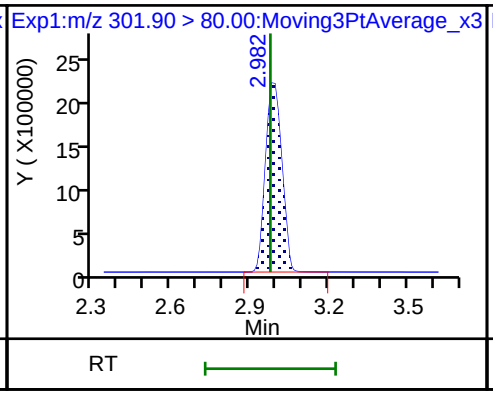
5 Perfluoropentanoic acid



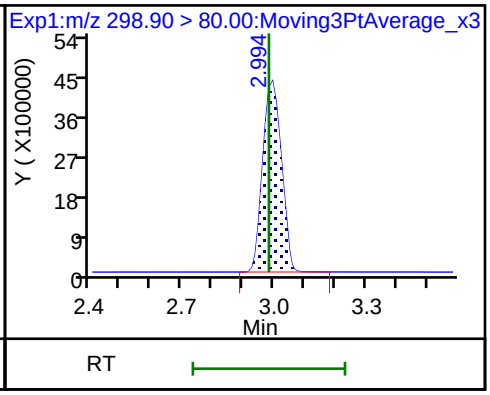
D 4 13C5 PFPeA



D 9 13C3 PFBS



6 Perfluorobutanesulfonic acid



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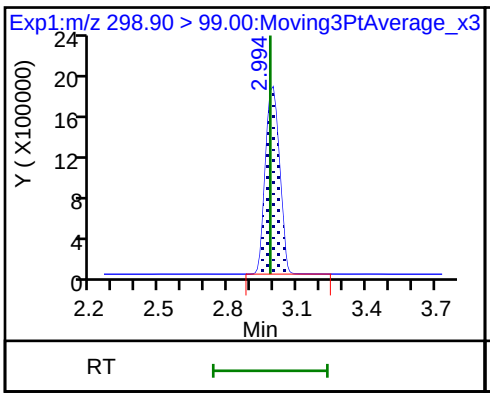
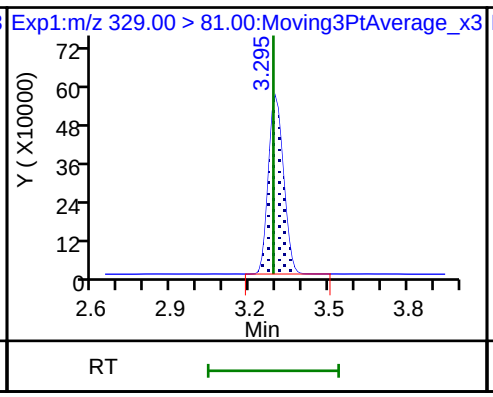
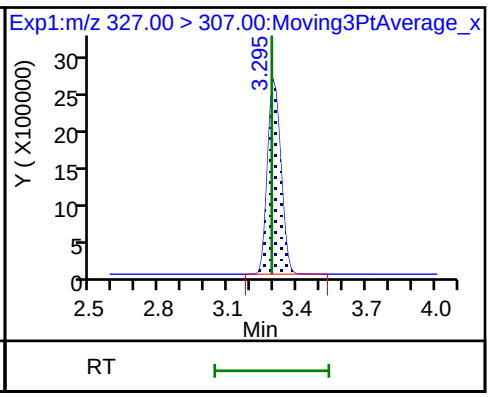


D 7 M2-4:2 FTS



8 4:2 FTS



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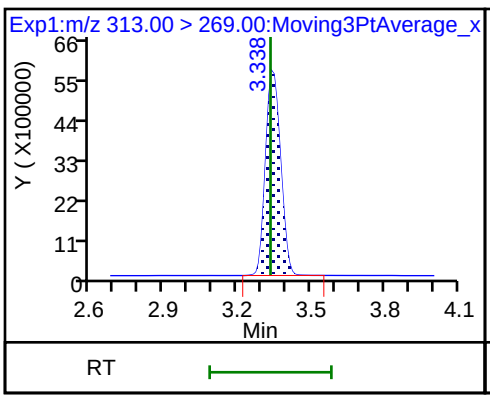

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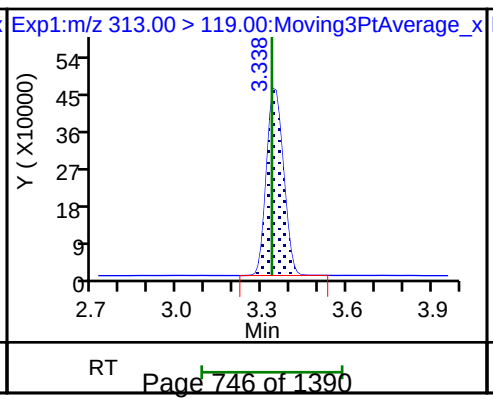
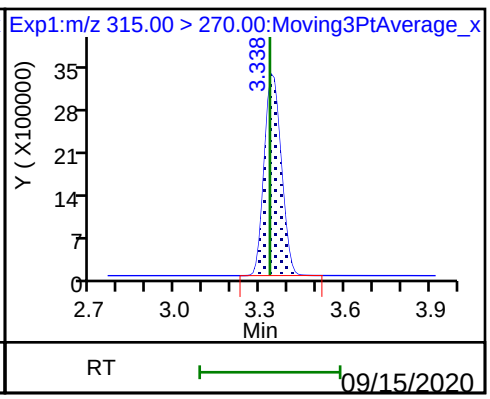
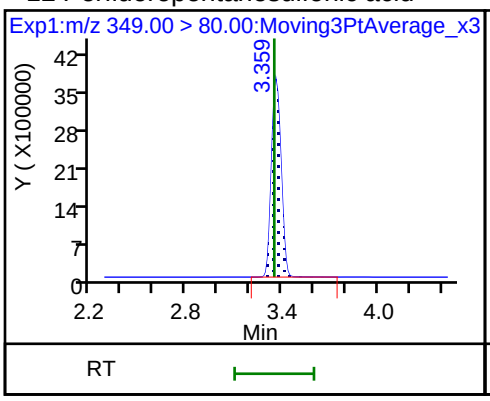


D 11 13C2 PFHxA



12 Perfluoropentanesulfonic acid



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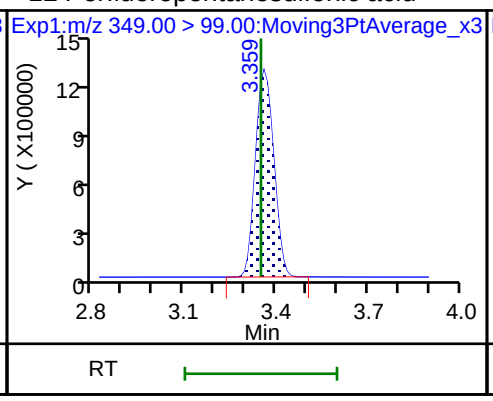
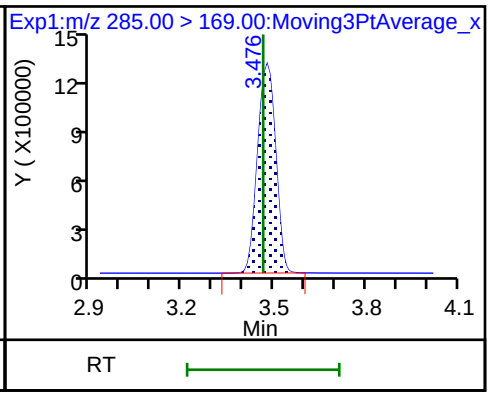
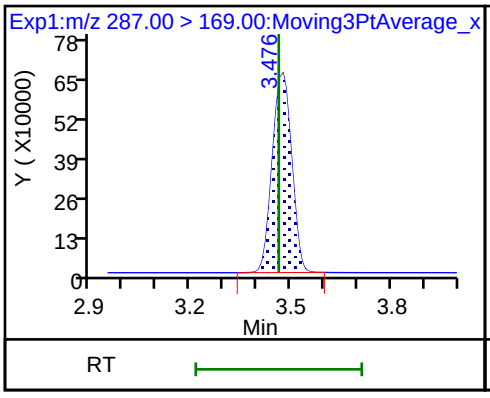


13 HPFO-DA



D 14 13C3 HFPO-DA



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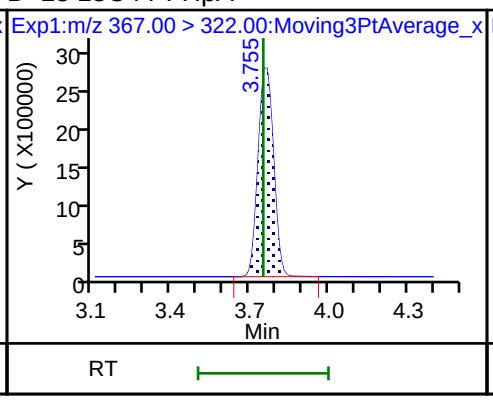
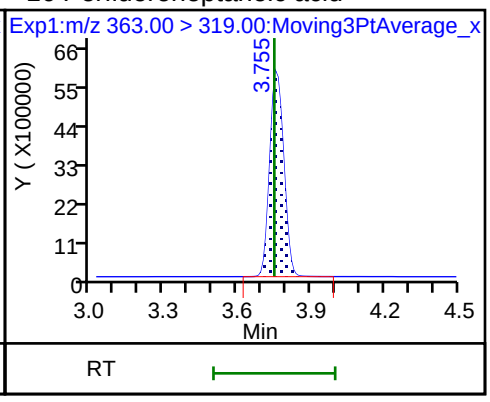


16 Perfluoroheptanoic acid



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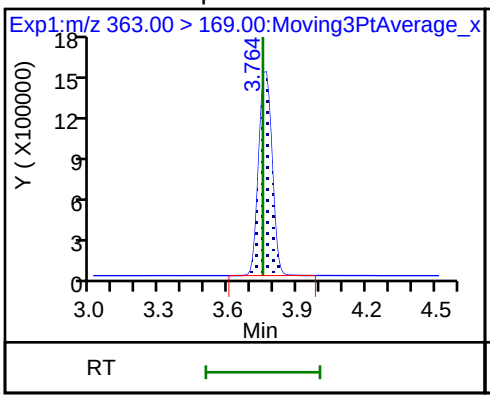
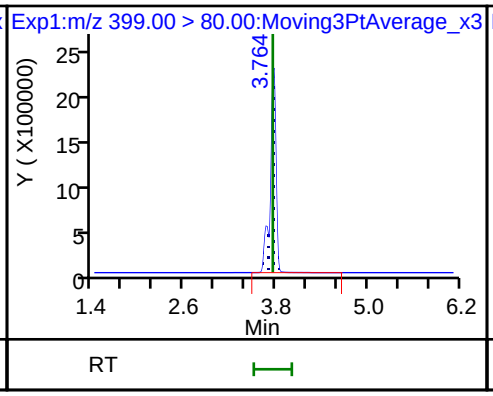


15 Perfluorohexanesulfonic acid



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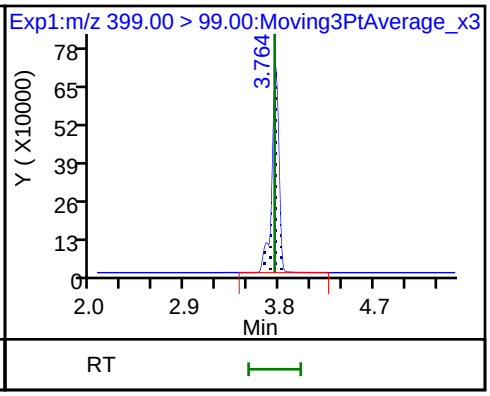
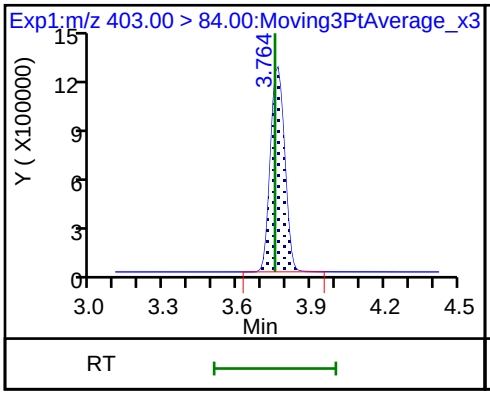
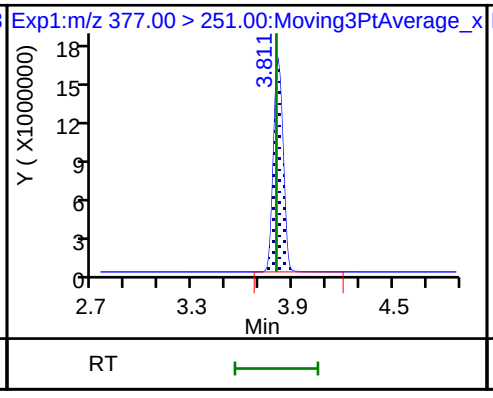


D 17 18O2 PFHxS



19 DONA



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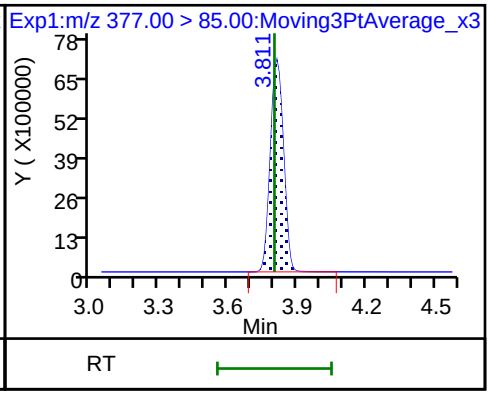
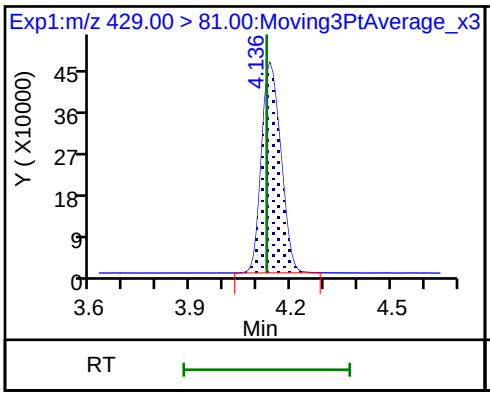
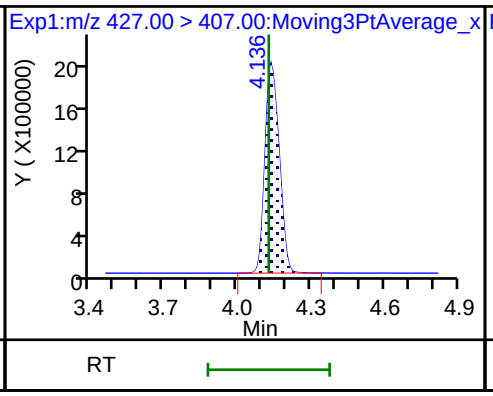


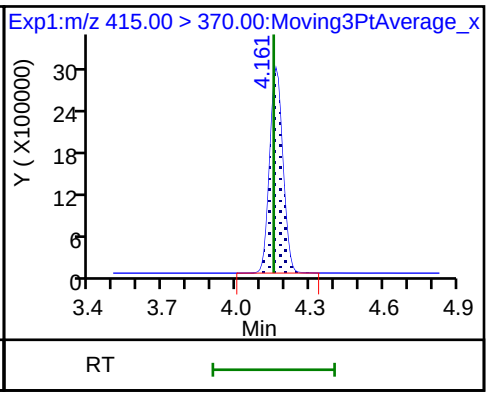
D 20 M2-6:2 FTS



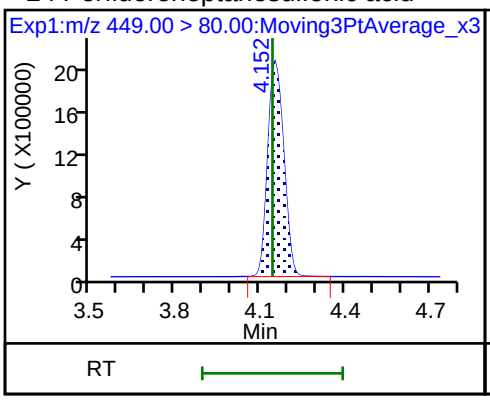
21 6:2 FTS



* 23 13C2 PFOA



24 Perfluoroheptanesulfonic acid



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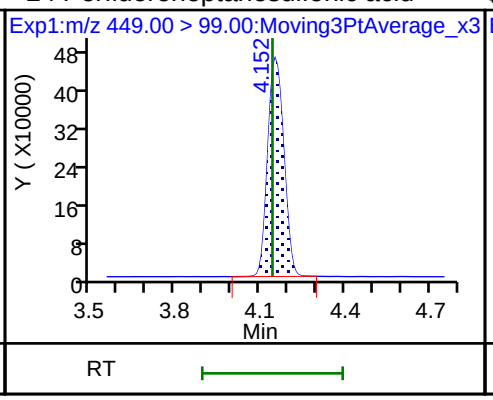
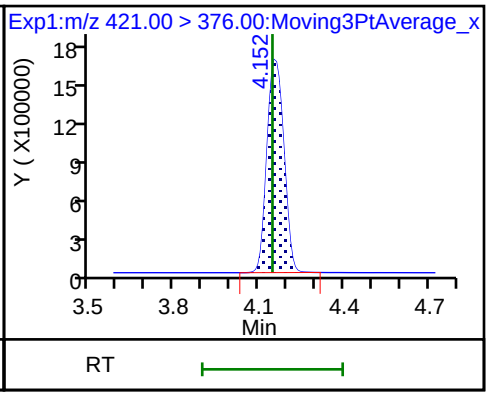


$ 26 13C8 PFOA



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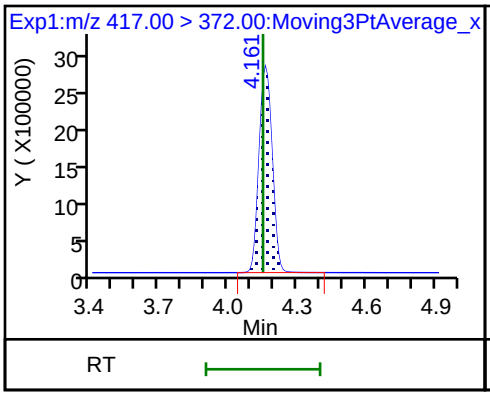
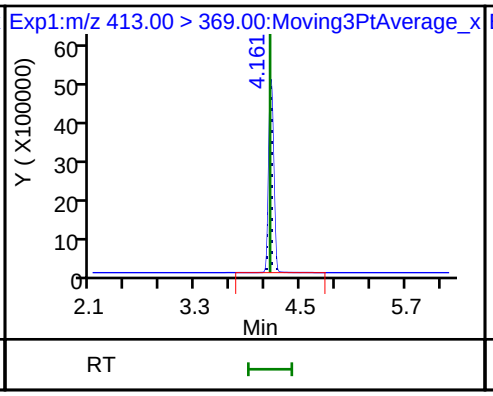
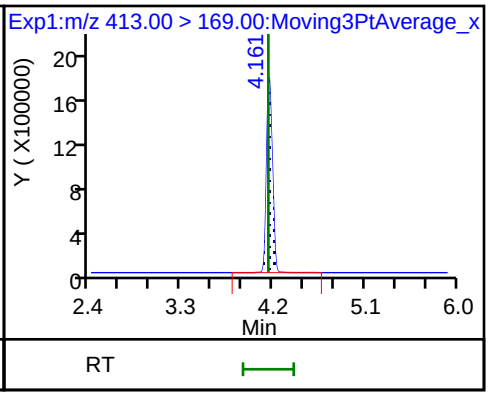


22 Perfluorooctanoic acid



22 Perfluorooctanoic acid



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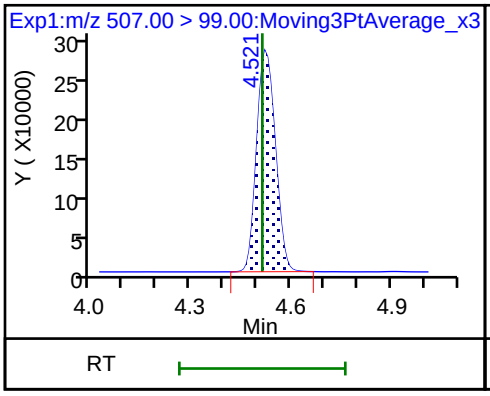

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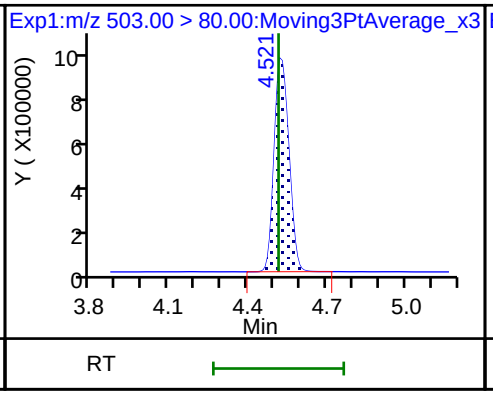
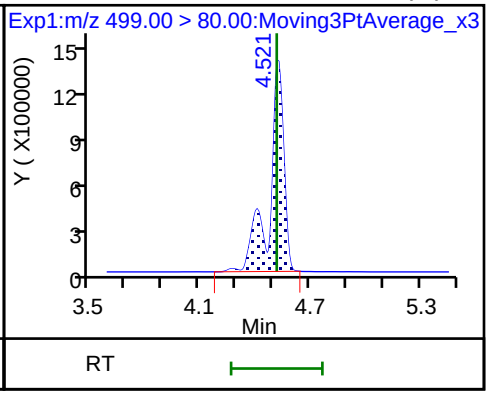
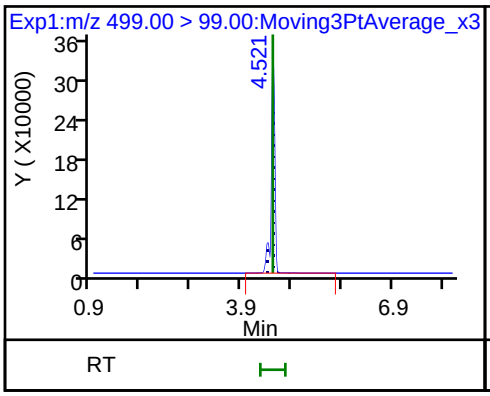


29 Perfluorooctanesulfonic acid (M)



29 Perfluorooctanesulfonic acid



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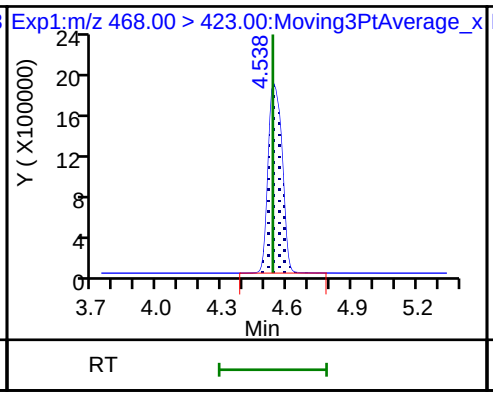
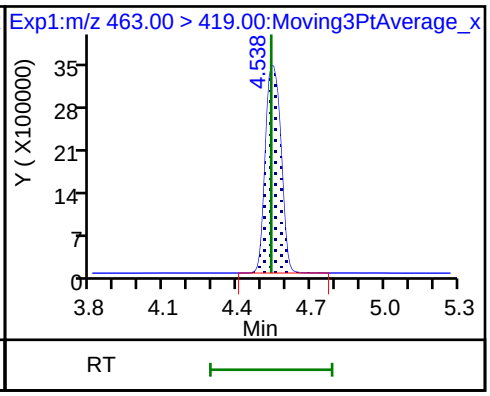
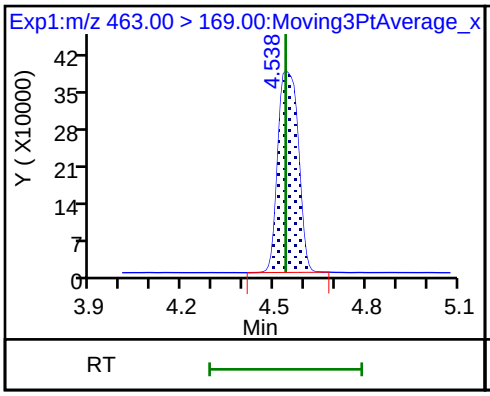


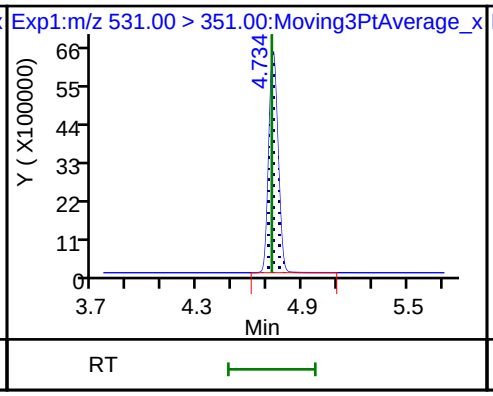
31 Perfluorononanoic acid



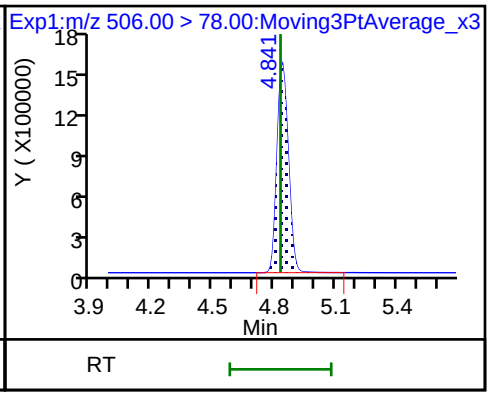
31 Perfluorononanoic acid



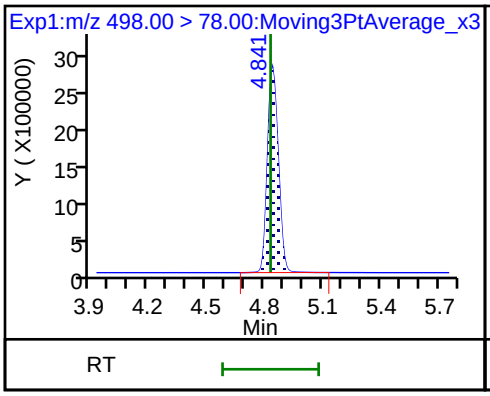
32 9ClFOS



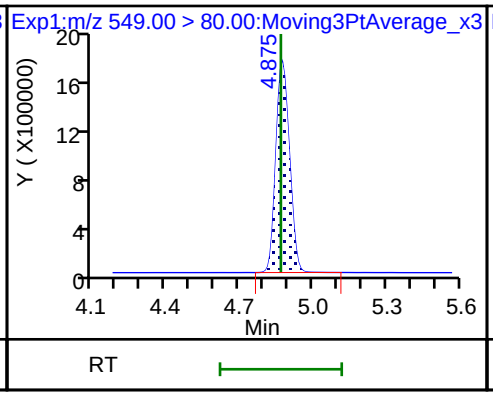
D 33 13C8 FOSA



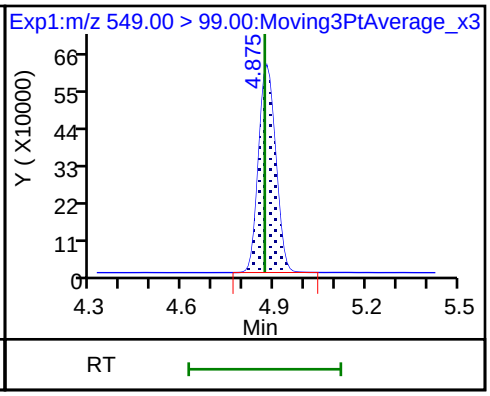
34 Perfluorooctanesulfonamide



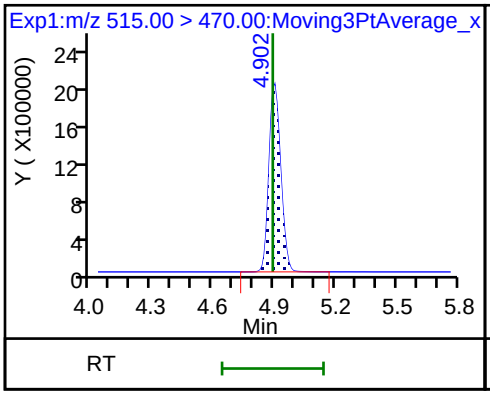
35 Perfluorononanesulfonic acid



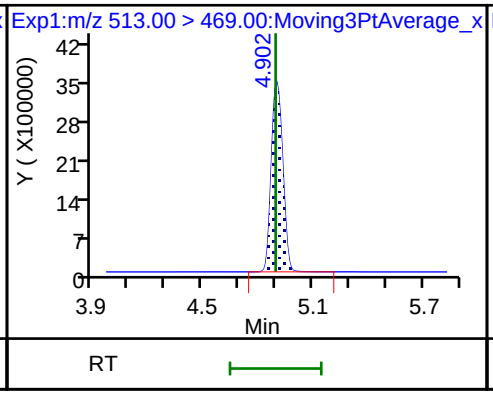
35 Perfluorononanesulfonic acid



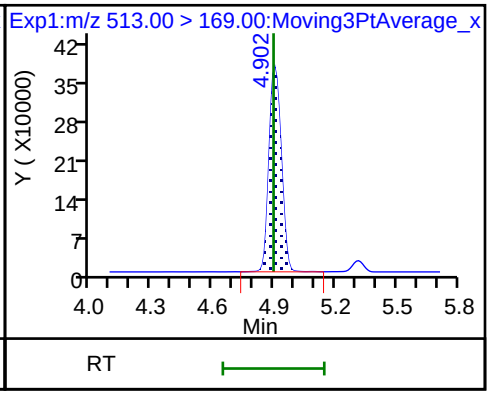
D 39 13C2 PFDA



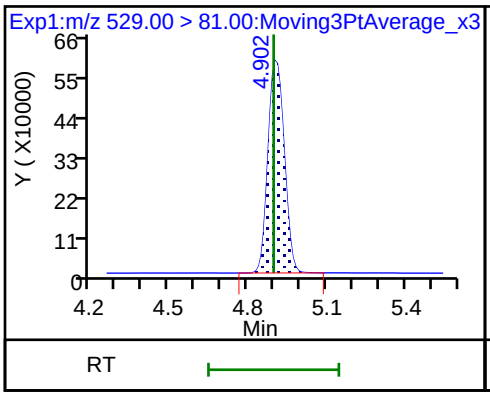
37 Perfluorodecanoic acid



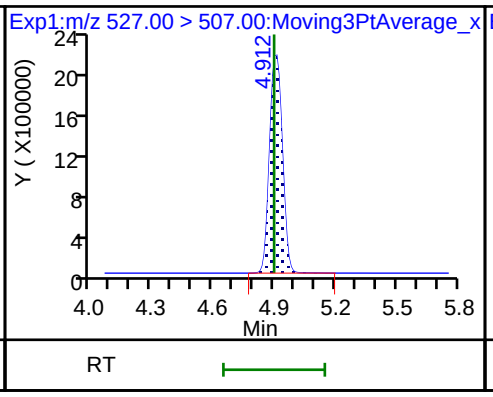
37 Perfluorodecanoic acid



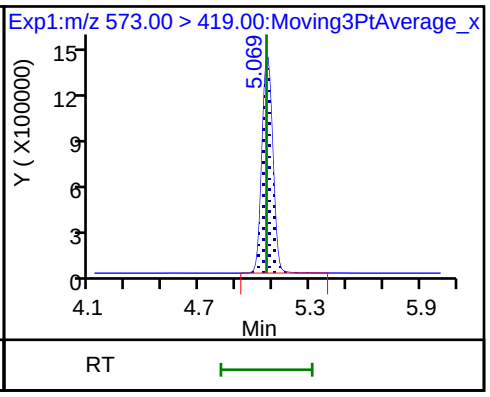
D 38 M2-8:2 FTS



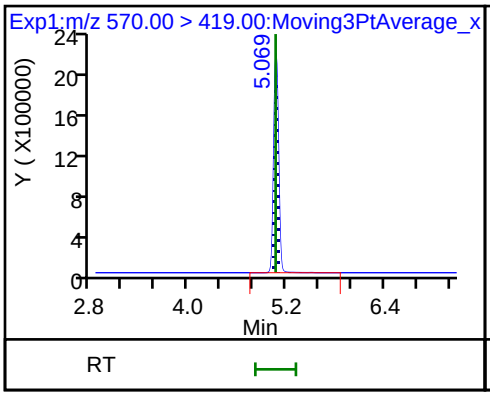
36 8:2 FTS



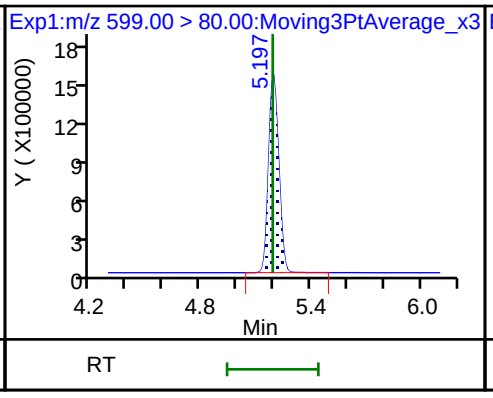
D 40 d3-NMeFOSAA



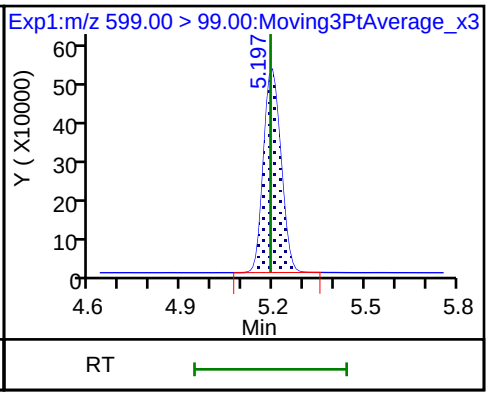
41 NMeFOSAA



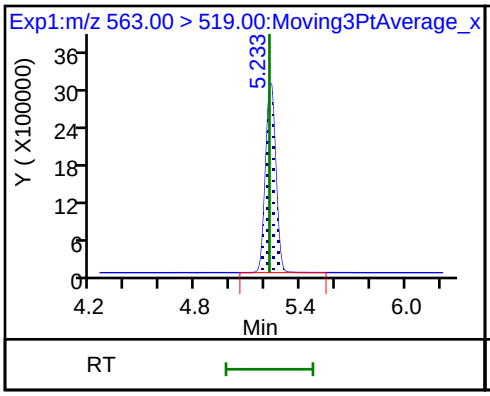
42 Perfluorodecanesulfonic acid



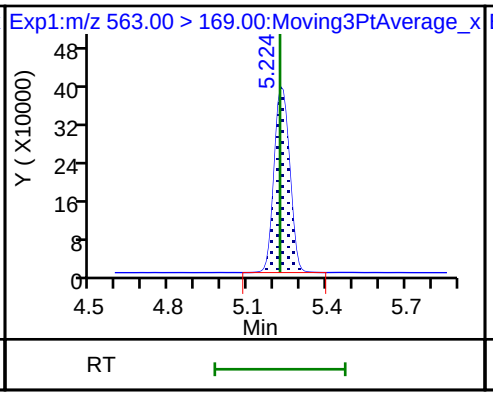
42 Perfluorodecanesulfonic acid



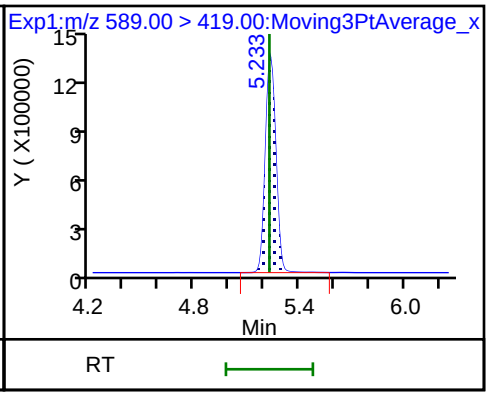
45 Perfluoroundecanoic acid



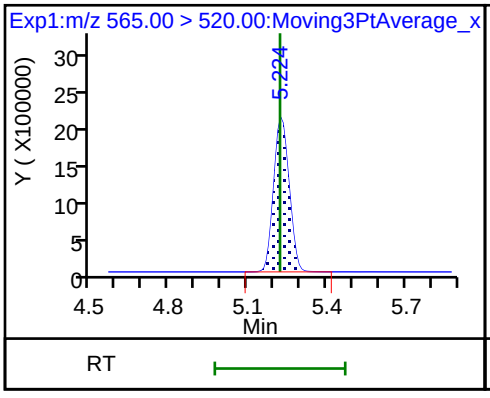
45 Perfluoroundecanoic acid



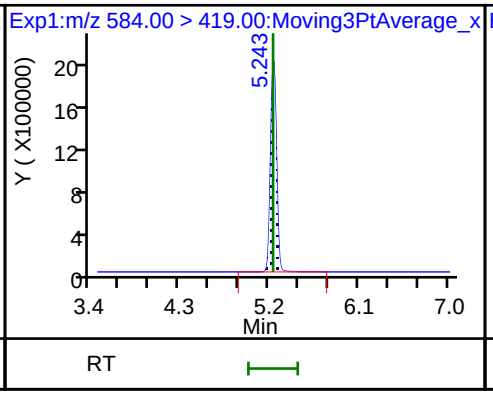
D 44 d5-NEtFOSAA



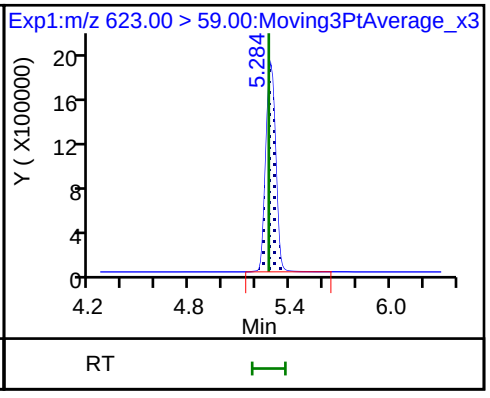
D 43 13C2 PFUnA



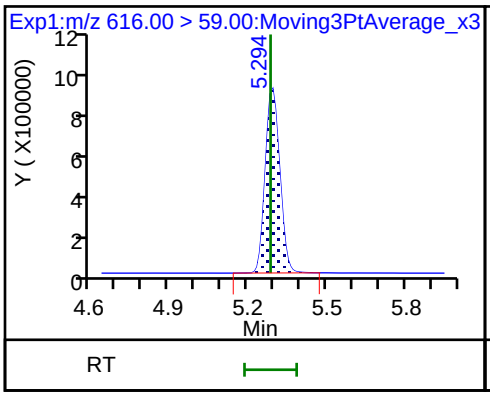
46 NEtFOSA



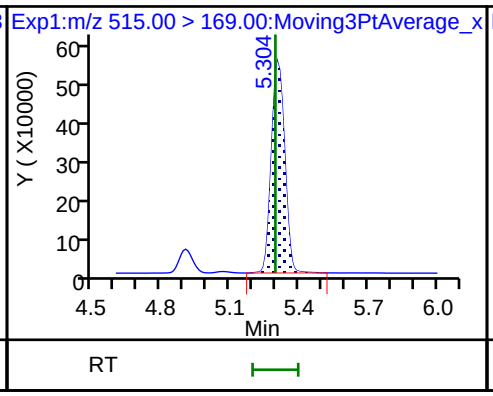
D 47 d7-N-MeFOSE-M



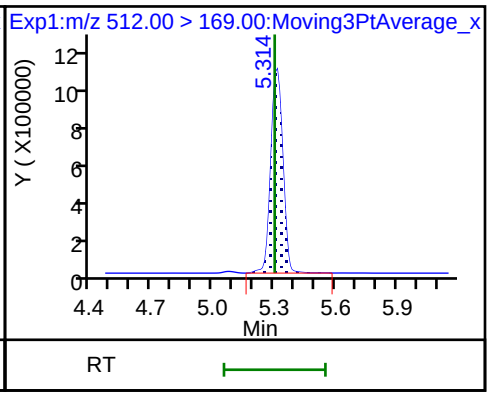
48 N-MeFOSE-M



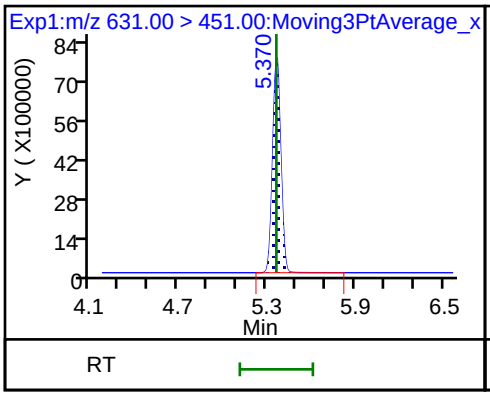
D 49 d-N-MeFOSA-M



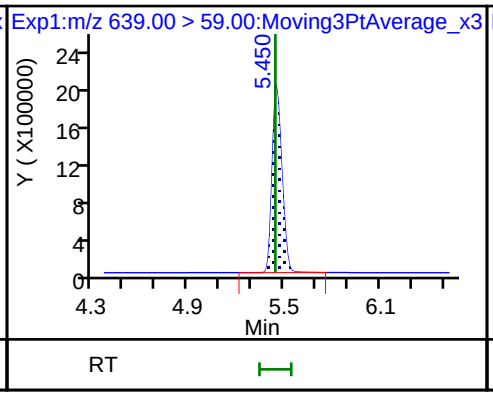
50 NMeFOSA



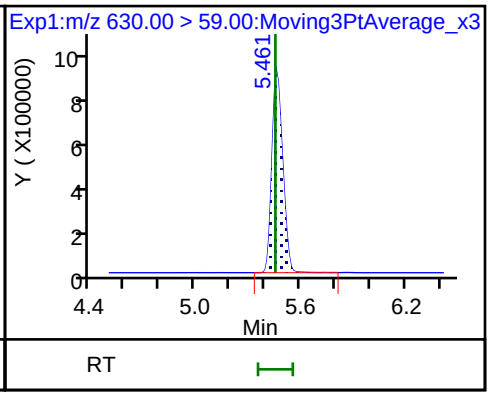
51 11ClFOS



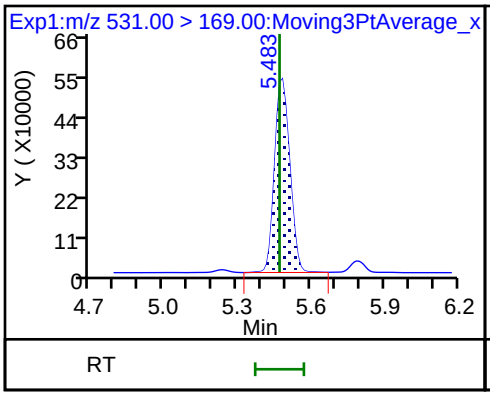
D 52 d9-N-EtFOSE-M



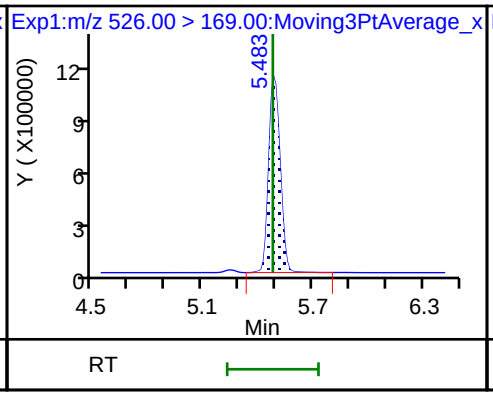
53 N-EtFOSE-M



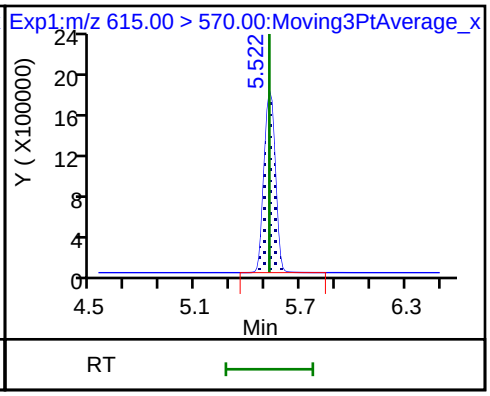
D 54 d-N-EtFOSA-M



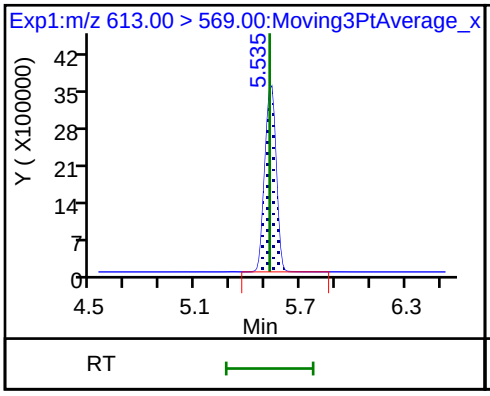
55 N-EtFOSA-M



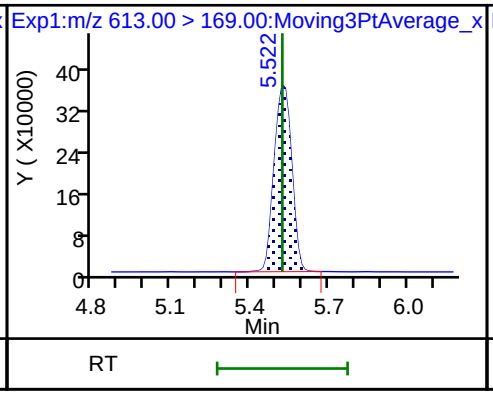
D 56 13C2 PFDoA



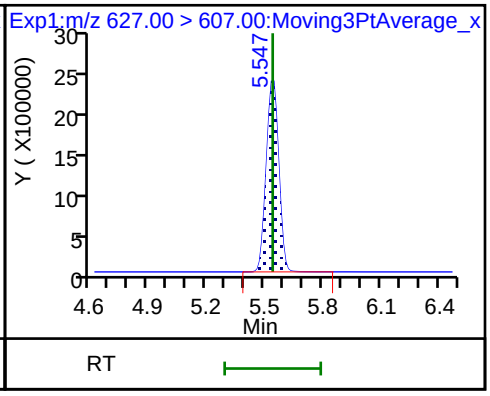
57 Perfluorododecanoic acid



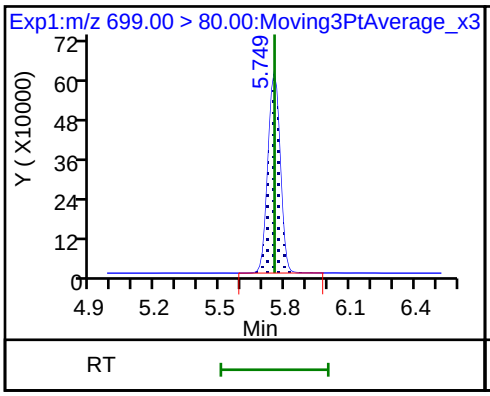
57 Perfluorododecanoic acid



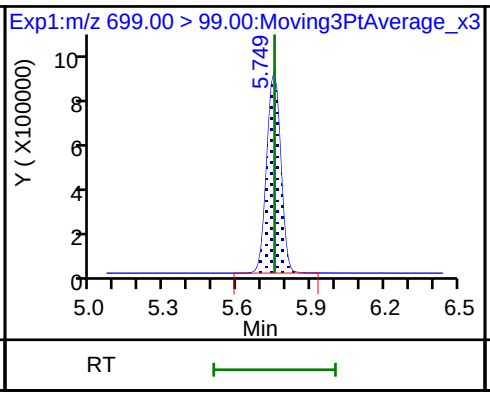
58 10:2 FTS



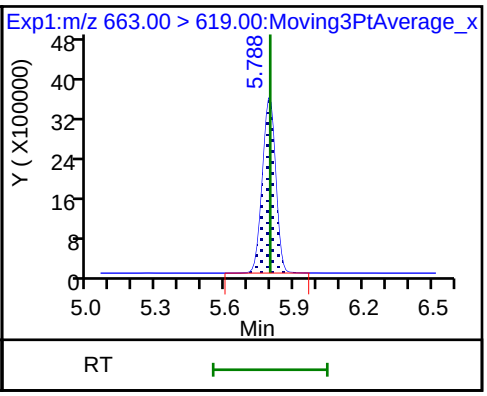
59 PFDoS



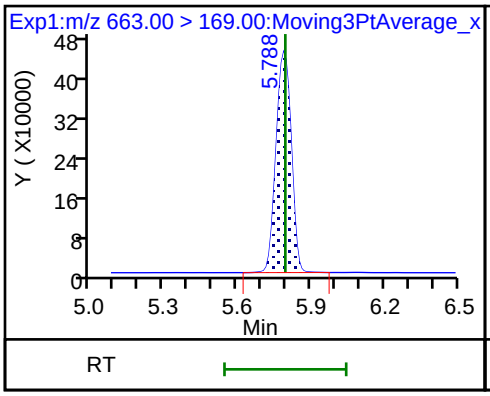
59 PFDoS



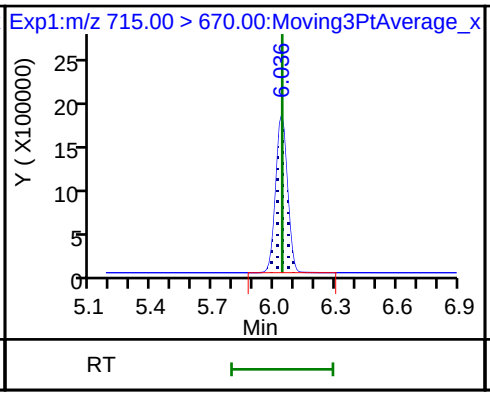
60 Perfluorotridecanoic acid



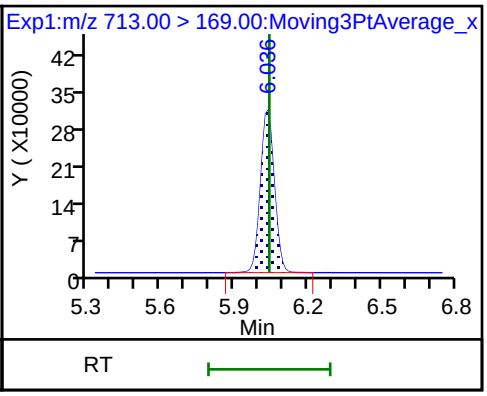
60 Perfluorotridecanoic acid



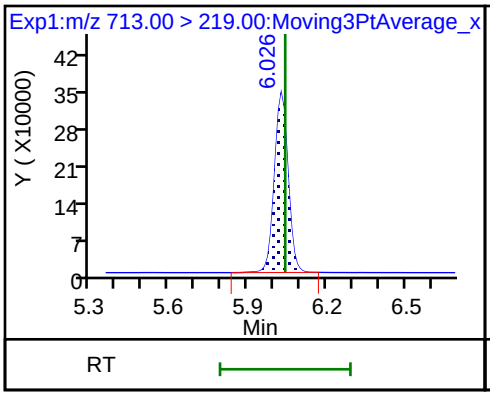
D 61 13C2 PFTeDA



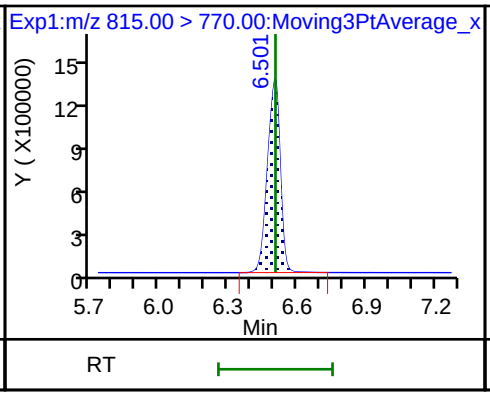
62 Perfluorotetradecanoic acid



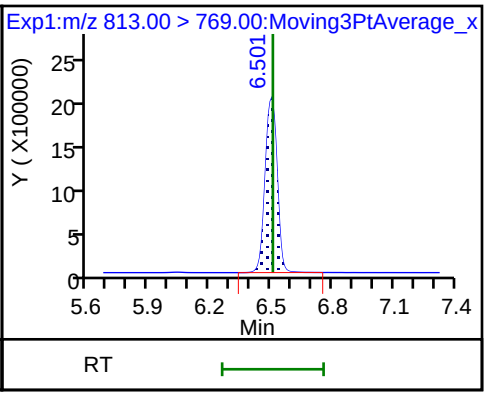
62 Perfluorotetradecanoic acid



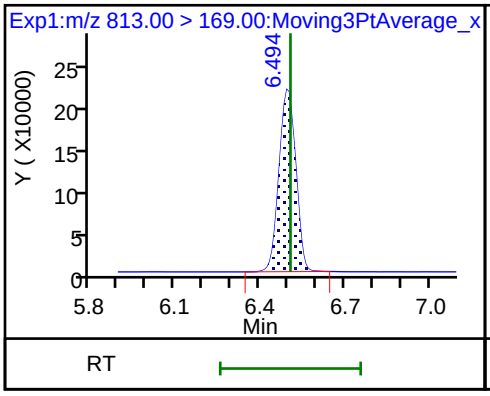
D 64 13C2 PFHxDA



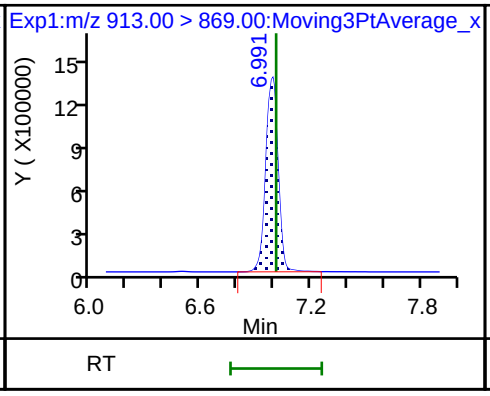
63 Perfluorohexadecanoic acid



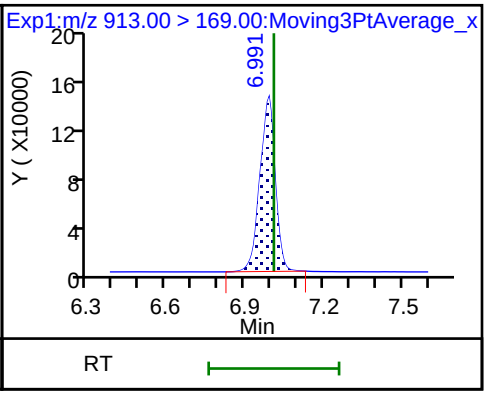
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

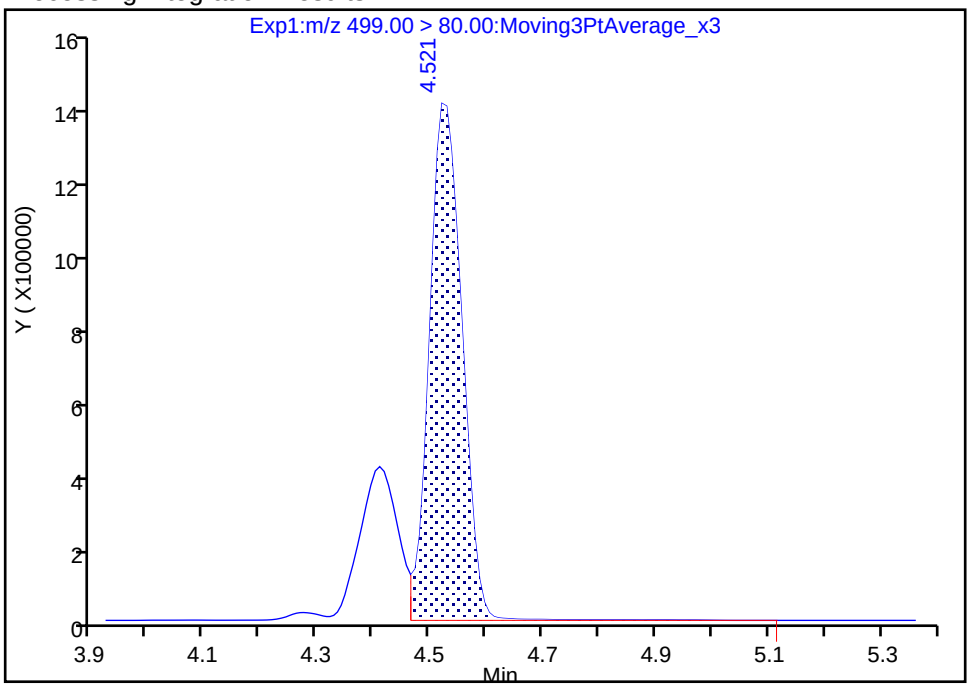
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_016.d
Injection Date: 25-Aug-2020 17:28:48 Instrument ID: A18
Lims ID: IC STD 6
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 11 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

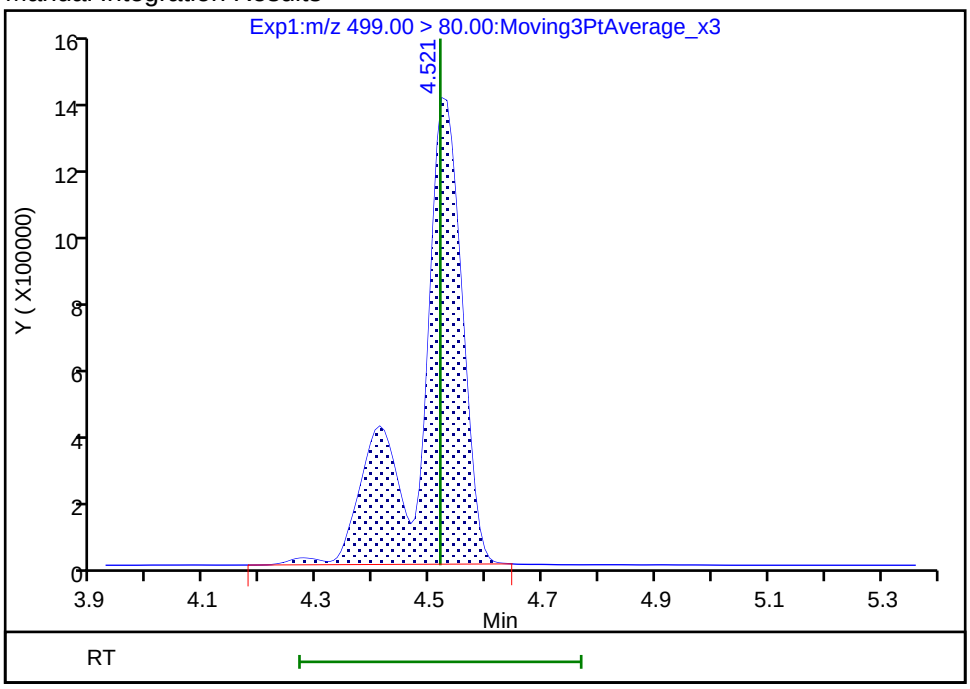
Processing Integration Results

RT: 4.52
Area: 5350627
Amount: 3.681019
Amount Units: ng/ml



Manual Integration Results

RT: 4.52
Area: 7186938
Amount: 4.759218
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:04:30
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d
Lims ID: IC STD 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Aug-2020 17:37:57 ALS Bottle#: 12 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD 7 (24)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:43:12 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 06:05:22
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.582	2.577	0.005	0.622	16413711	2.63		105	7757	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.590	2.580	0.010	1.003	56740145	9.96		99.6	2144	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.951	2.941	0.010	1.000	47880922	9.65		96.5	2285	
D 4 13C5 PFPeA										
267.90 > 223.00	2.951	2.941	0.010	0.711	12448068	2.56		102	5071	
D 9 13C3 PFBS										
301.90 > 80.00	2.986	2.977	0.009	0.720	8956338	2.35		101	4004	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.986	2.982	0.004	1.000	34105255	8.77	Target=2.30	99.2	6719	
298.90 > 99.00	2.986	2.982	0.004	1.000	14620564		2.33(1.15-3.45)	99.2	5049	
8 4:2 FTS										
327.00 > 307.00	3.288	3.288	0.0	1.000	18232538	9.20		98.5	12561	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.288	3.288	0.0	0.793	2036093	2.21		94.8	941	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.341	3.334	0.007	1.000	44890403	9.46	Target=13.78	94.6	2751	
313.00 > 119.00	3.341	3.334	0.007	1.000	3493122		12.85(6.89-20.66)	94.6	1688	
D 11 13C2 PFHxA										
315.00 > 270.00	3.341	3.334	0.007	0.805	12302361	2.53		101	6826	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.352	3.349	0.003	1.123	29038841	9.51	Target=3.02	101	4426	
349.00 > 99.00	3.352	3.349	0.003	1.123	9714798		2.99(1.51-4.52)	101	3836	
13 HPFO-DA										
285.00 > 169.00	3.469	3.463	0.006	1.000	10115867	9.86		98.6	10111	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.469	3.463	0.006	0.836	2632961	2.65		106	5261	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.750	3.750	0.0	1.000	41173087	10.2	Target=3.84	102	3744	
363.00 > 169.00	3.750	3.750	0.0	1.000	10430431		3.95(1.92-5.76)	102	3945	
D 18 13C4 PFHpA										
367.00 > 322.00	3.750	3.750	0.0	0.904	9979836	2.41		96.3	7094	
D 17 18O2 PFHxS										
403.00 > 84.00	3.750	3.752	-0.002	0.904	4743964	2.35		99.4	5176	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.750	3.752	-0.002	1.000	20508587	8.65	Target=3.50	95.1	9345	
399.00 > 99.00	3.750	3.752	-0.002	1.000	5972295		3.43(1.75-5.25)	95.1	6528	
19 DONA										
377.00 > 251.00	3.799	3.800	-0.001	0.843	116216620	8.60	Target=2.42	91.3	20519	
377.00 > 85.00	3.799	3.800	-0.001	0.843	53526438		2.17(1.21-3.63)	91.3	20640	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.124	4.127	-0.003	0.994	1626381	2.11		88.7	992	
21 6:2 FTS										
427.00 > 407.00	4.124	4.127	-0.003	1.000	13812377	8.77		92.6	8081	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.140	4.143	-0.003	0.919	14746979	9.36	Target=4.40	98.3	4839	
449.00 > 99.00	4.140	4.143	-0.003	0.919	3349525		4.40(2.20-6.60)	98.3	3236	
$ 26 13C8 PFOA										
421.00 > 376.00	4.148	4.147	0.001	1.000	6572152	2.47		101	3338	
D 25 13C4 PFOA										
417.00 > 372.00	4.148	4.150	-0.002	1.000	9310596	2.36		94.3	6931	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.148	4.150	-0.002	1.000	33940571	8.93	Target=2.94	89.3	5308	
413.00 > 169.00	4.148	4.150	-0.002	1.000	12649032		2.68(1.47-4.41)	89.3	15767	
* 23 13C2 PFOA										
415.00 > 370.00	4.148	4.151	-0.003		9860148	2.50			4205	
$ 28 13C8 PFOS										
507.00 > 99.00	4.507	4.514	-0.007	1.087	1015761	2.38		99.6	1728	
D 27 13C4 PFOS										
503.00 > 80.00	4.507	4.516	-0.009	1.087	3369647	2.47		103	1357	
29 Perfluorooctanesulfonic acid										
499.00 > 80.00	4.515	4.518	-0.003	1.002	13785552	9.45	Target=4.53	102	2538	
499.00 > 99.00	4.507	4.518	-0.011	1.000	2907749		4.74(2.26-6.79)	102	1617	
D 30 13C5 PFNA										
468.00 > 423.00	4.531	4.533	-0.002	1.092	7890530	2.48		99.3	7686	
31 Perfluorononanoic acid										
463.00 > 419.00	4.540	4.537	0.003	1.002	26602259	8.79	Target=8.97	87.9	3038	
463.00 > 169.00	4.531	4.537	-0.006	1.000	3277623		8.12(4.48-13.45)	87.9	2575	
32 9ClFOS										
531.00 > 351.00	4.717	4.724	-0.007	1.046	44196767	9.69		104	47410	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.829	4.830	-0.001	1.000	21565996	10.4		104	11691	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 33 13C8 FOSA										
506.00 > 78.00	4.829	4.830	-0.001	1.164	5585611	2.53		101	7808	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.863	4.868	-0.005	1.079	11794985	8.93	Target=2.85	93.0	5032	
549.00 > 99.00	4.863	4.868	-0.005	1.079	4237806		2.78(1.43-4.28)	93.0	4194	
D 39 13C2 PFDA										
515.00 > 470.00	4.889	4.892	-0.003	1.179	6981751	2.26		90.4	9979	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.898	4.896	0.002	1.002	27154808	10.1	Target=10.16	101	6239	
513.00 > 169.00	4.889	4.896	-0.007	1.000	2477798		10.96(5.08-15.24)	101	167	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.889	4.897	-0.008	1.179	2183392	1.96		81.9	1202	
36 8:2 FTS										
527.00 > 507.00	4.889	4.898	-0.009	1.000	15102670	9.33		97.4	6946	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.056	5.062	-0.006	1.219	5401400	2.61		104	4317	
41 NMeFOSAA										
570.00 > 419.00	5.056	5.065	-0.009	1.000	17794078	11.1		111	46382	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.184	5.191	-0.007	1.150	11394459	9.68	Target=2.77	100	9270	
599.00 > 99.00	5.184	5.191	-0.007	1.150	3971592		2.87(1.38-4.15)	100	7572	
D 43 13C2 PFUnA										
565.00 > 520.00	5.210	5.221	-0.011	1.256	7623503	2.49		99.7	8999	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.219	5.221	-0.002	1.002	22491178	10.2	Target=8.43	102	5929	
563.00 > 169.00	5.219	5.221	-0.002	1.002	2439519		9.22(4.22-12.65)	102	3246	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.219	5.227	-0.008	1.258	4780383	2.18		87.3	3758	
46 NEtFOSA										
584.00 > 419.00	5.229	5.236	-0.007	1.002	15220352	11.8		118	40258	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.268	5.272	-0.004	1.270	7579410	13.9		111	3904	
48 N-MeFOSE-M										
616.00 > 59.00	5.289	5.285	0.004	1.004	6794003	10.4		104	8369	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.299	5.295	0.004	1.277	2264660	2.92		117	82.2	
50 NMeFOSA										
512.00 > 169.00	5.299	5.301	-0.002	1.000	8417031	9.67		96.7	833	
51 11ClFOS										
631.00 > 451.00	5.348	5.363	-0.015	1.187	57524539	9.95		106	11699	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.447	5.443	0.004	1.313	9589089	14.3		114	2500	
53 N-EtFOSE-M										
630.00 > 59.00	5.447	5.456	-0.009	1.000	7675582	9.33		93.3	6945	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.469	5.471	-0.002	1.318	2273331	2.87		115	95.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.480	5.480	0.0	1.002	9216155	9.58		95.8	628	
D 56 13C2 PFDoA										
615.00 > 570.00	5.504	5.521	-0.017	1.327	7132495	2.36		94.6	6670	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.504	5.523	-0.019	1.000	27702397	9.50	Target=9.12	95.0	7832	
613.00 > 169.00	5.504	5.523	-0.019	1.000	3205500		8.64(4.56-13.69)	95.0	3338	
58 10:2 FTS										
627.00 > 607.00	5.529	5.541	-0.012	1.131	17064790	9.29		96.4	7266	
59 PFDoS										
699.00 > 80.00	5.733	5.751	-0.018	1.272	4723160	10.1	Target=0.72	104	3983	
699.00 > 99.00	5.733	5.751	-0.018	1.272	6938141		0.68(0.36-1.07)	104	8369	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.783	5.795	-0.012	1.051	27534864	10.3	Target=6.78	103	6958	
663.00 > 169.00	5.774	5.795	-0.021	1.049	4251848		6.48(3.39-10.17)	103	3771	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.022	6.038	-0.016	1.452	5834435	2.34		93.8	5873	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.022	6.041	-0.019	1.000	1898401	9.64	Target=0.85	96.4	3063	
713.00 > 219.00	6.022	6.041	-0.019	1.000	2206268		0.86(0.43-1.28)	96.4	4203	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.490	6.505	-0.015	1.564	4682798	2.57		103	4757	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.499	6.507	-0.008	1.001	16501588	10.0	Target=10.21	100	5145	
813.00 > 169.00	6.499	6.507	-0.008	1.001	1516223		10.88(5.11-15.32)	100	3237	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.983	7.009	-0.026	1.076	13652717	11.0	Target=12.45	110	4044	
913.00 > 169.00	6.983	7.009	-0.026	1.076	1134600		12.03(6.22-18.67)	110	3924	

Reagents:

LCPFC_LL7_00024 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:43:14 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Injection Date: 25-Aug-2020 17:37:57 Instrument ID: A18

Lims ID: IC STD 7

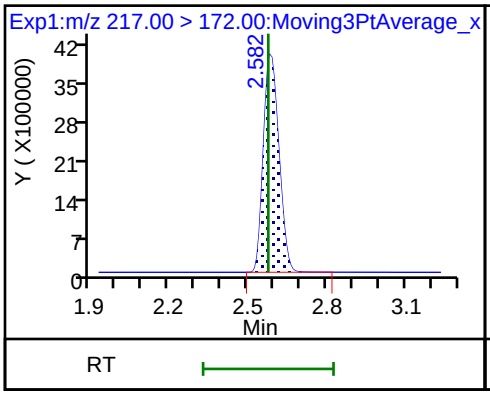
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 12 Worklist Smp#: 8

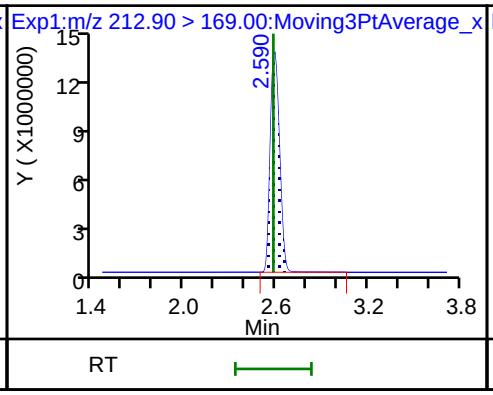
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

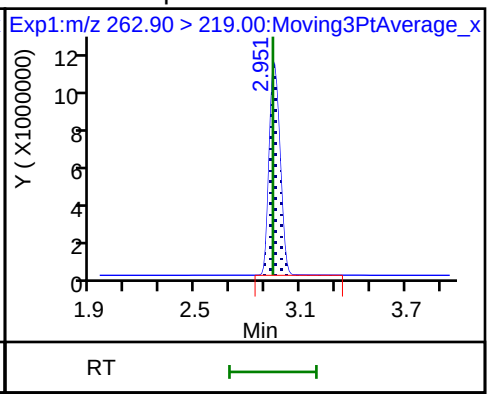
D 1 13C4 PFBA



2 Perfluorobutanoic acid



5 Perfluoropentanoic acid



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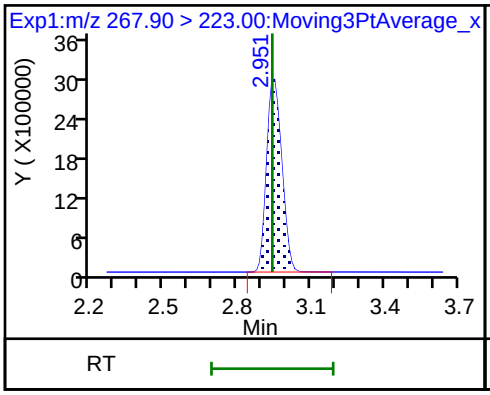
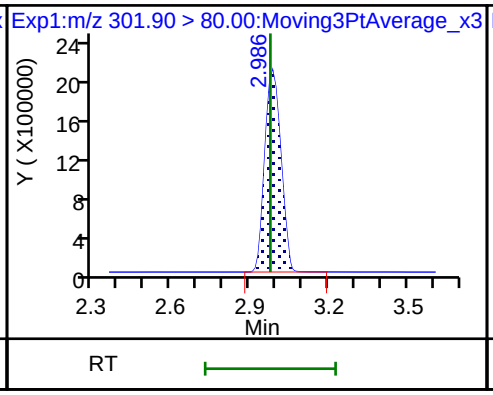
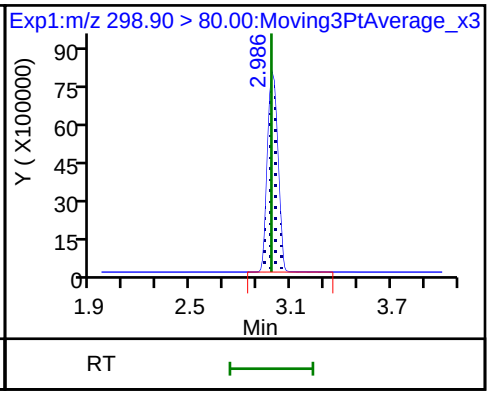


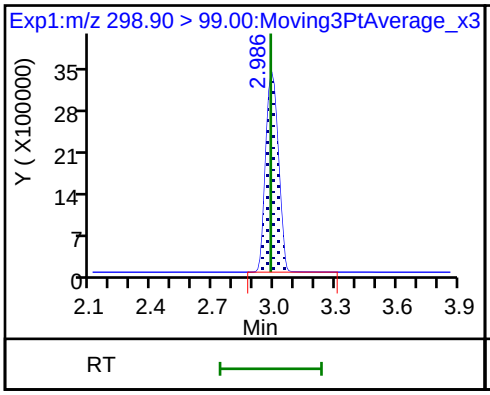
D 9 13C3 PFBS



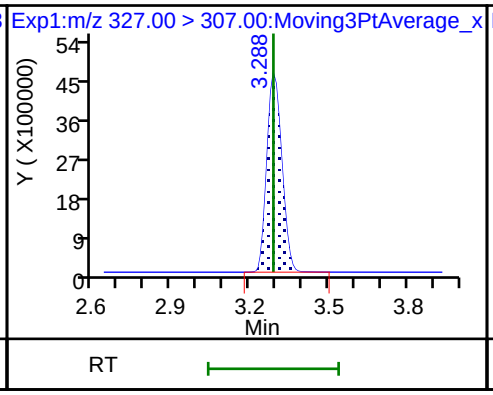
6 Perfluorobutanesulfonic acid



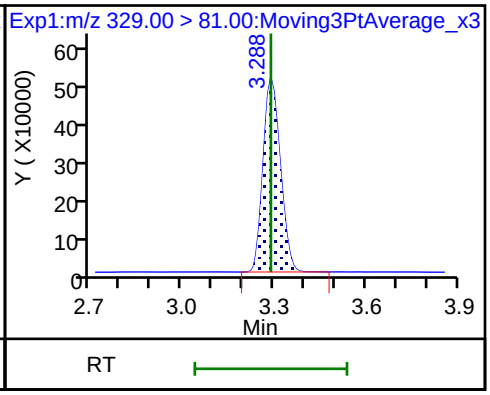
6 Perfluorobutanesulfonic acid



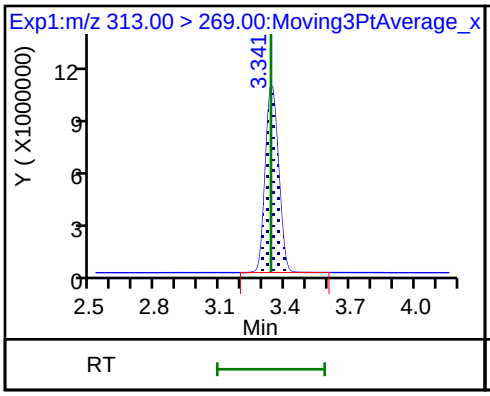
8 4:2 FTS



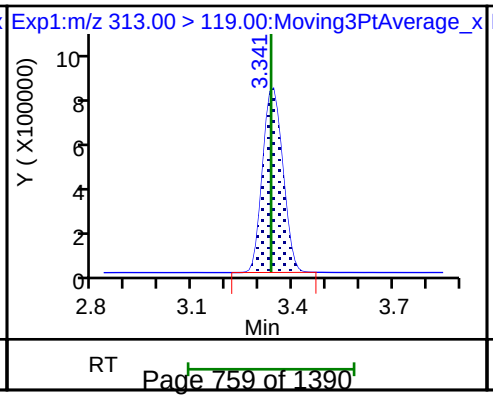
D 7 M2-4:2 FTS



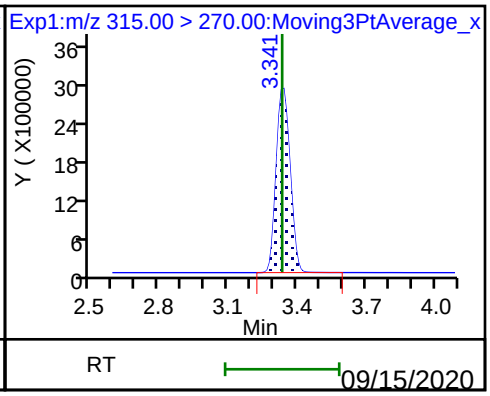
10 Perfluorohexanoic acid



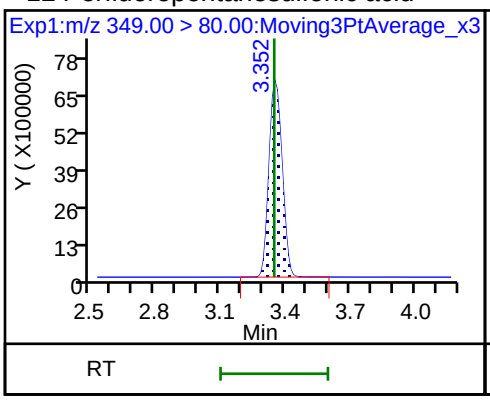
10 Perfluorohexanoic acid



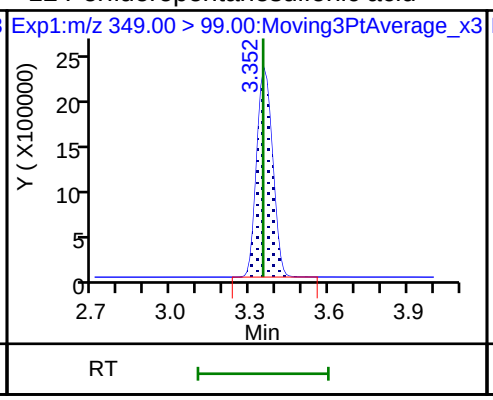
D 11 13C2 PFHxA



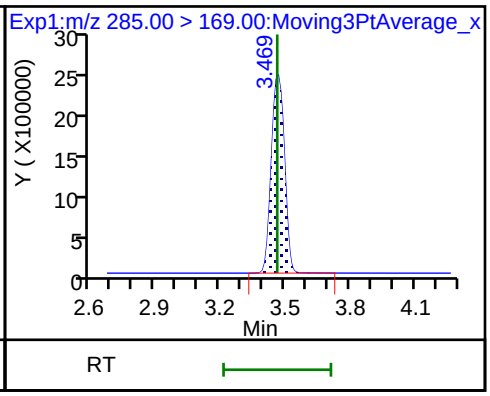
12 Perfluoropentanesulfonic acid



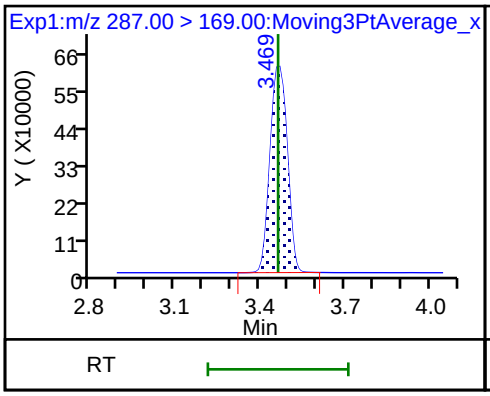
12 Perfluoropentanesulfonic acid



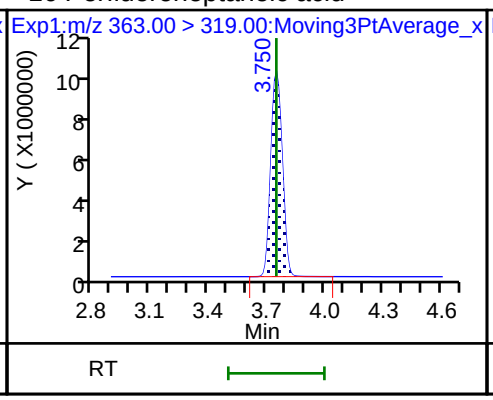
13 HPFO-DA



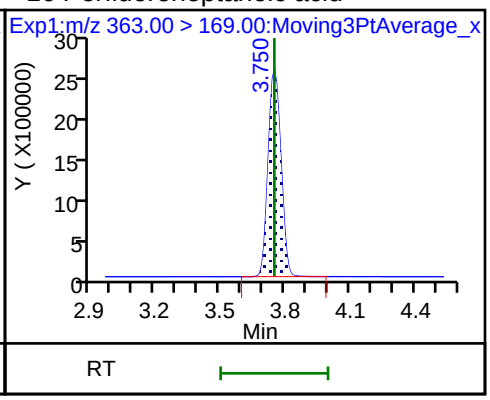
D 14 13C3 HFPO-DA



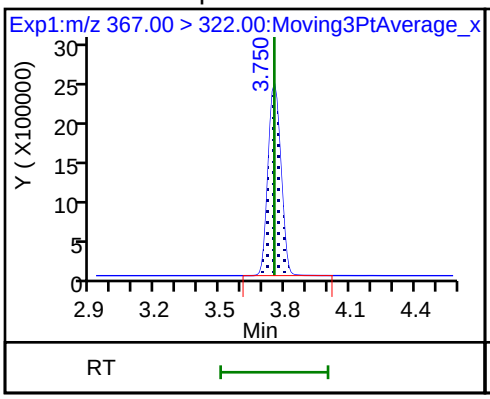
16 Perfluoroheptanoic acid



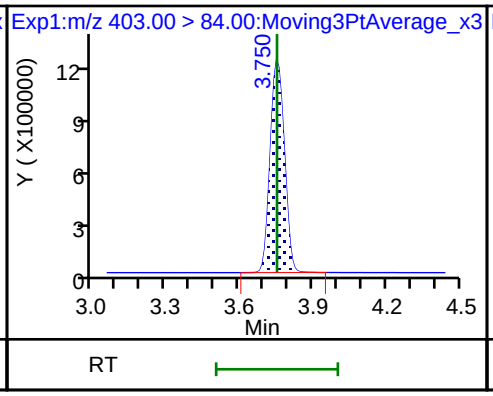
16 Perfluoroheptanoic acid



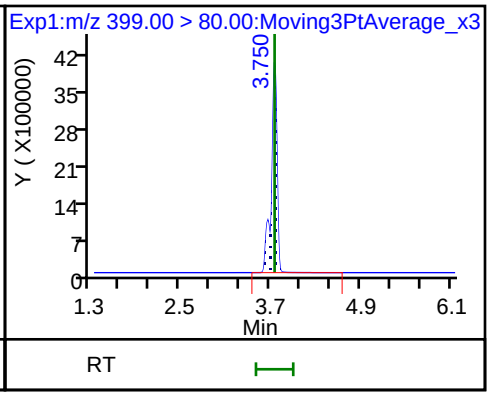
D 18 13C4 PFHpA



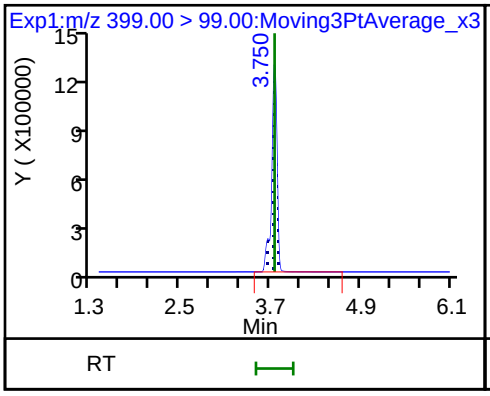
D 17 18O2 PFHxS



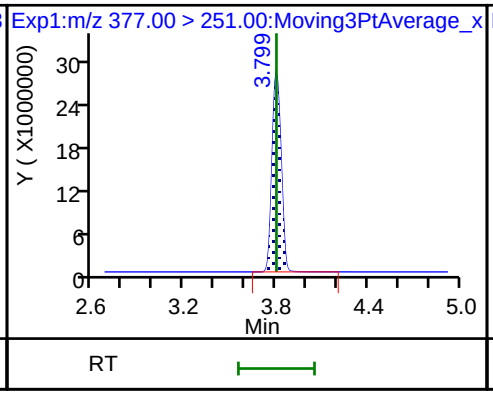
15 Perfluorohexanesulfonic acid



15 Perfluorohexanesulfonic acid



19 DONA



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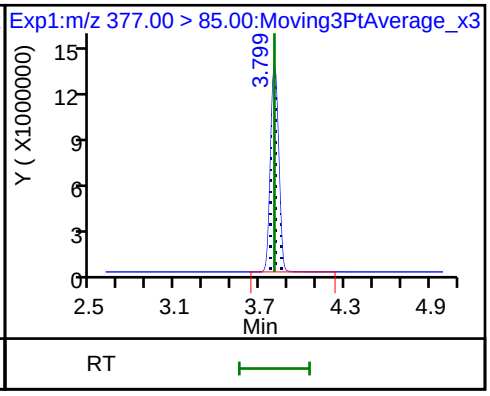
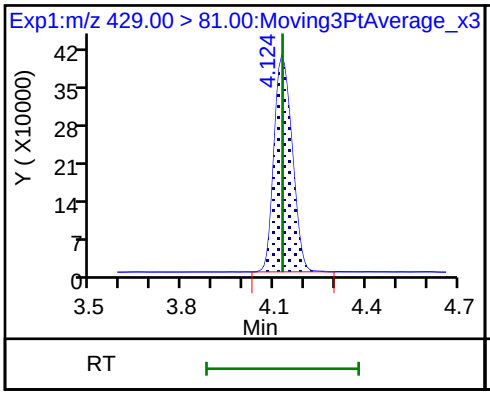
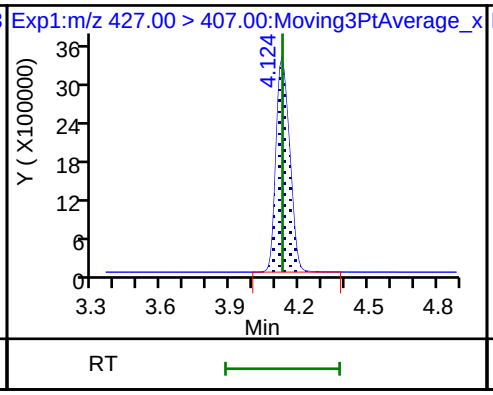


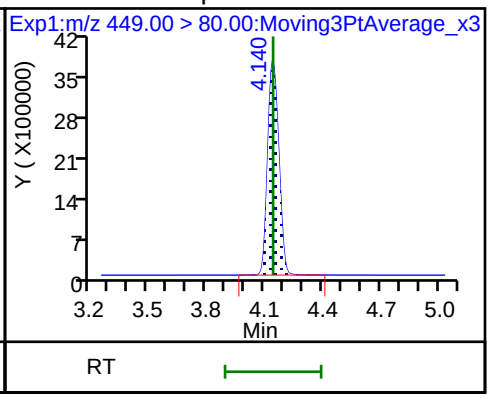
D 20 M2-6:2 FTS



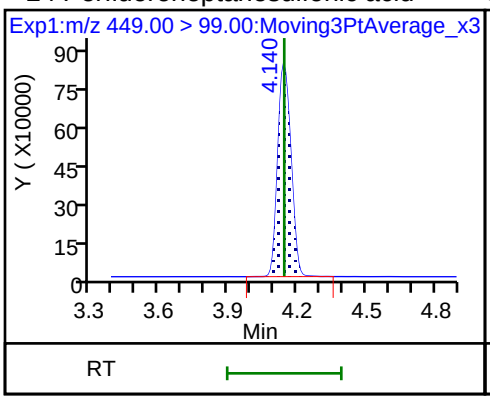
21 6:2 FTS



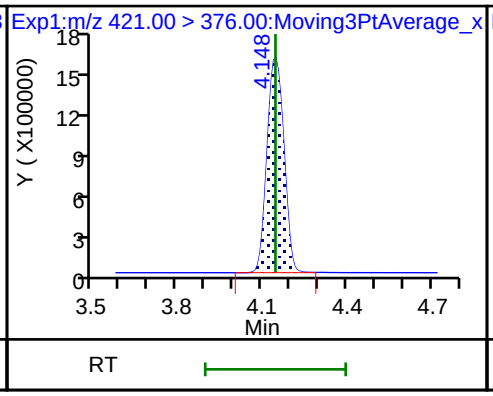
24 Perfluoroheptanesulfonic acid



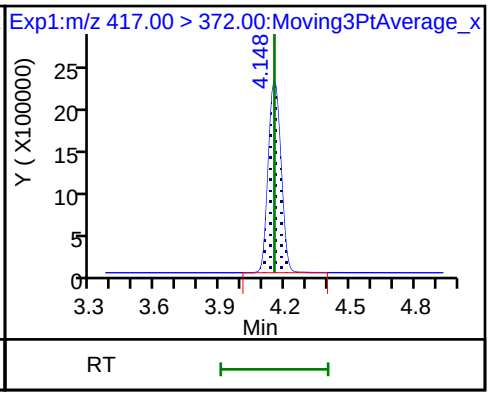
24 Perfluoroheptanesulfonic acid



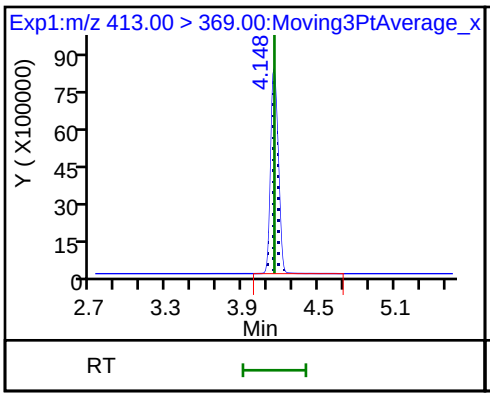
$ 26 13C8 PFOA



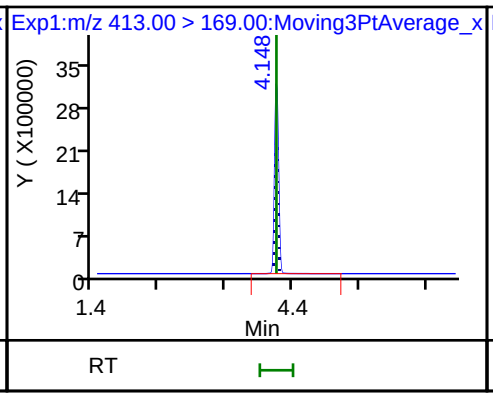
D 25 13C4 PFOA



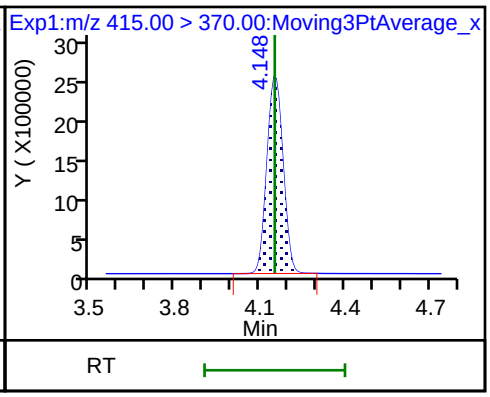
22 Perfluorooctanoic acid



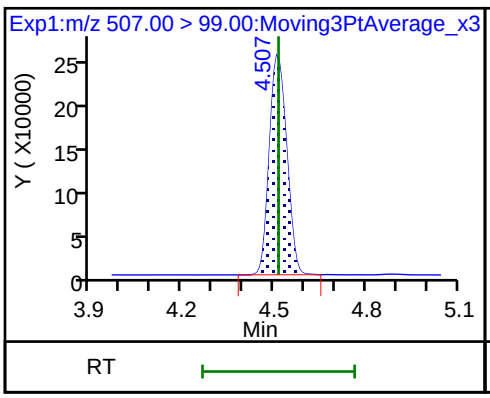
22 Perfluorooctanoic acid



* 23 13C2 PFOA



$ 28 13C8 PFOS



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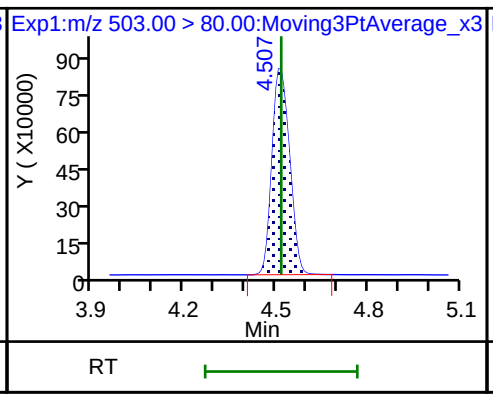
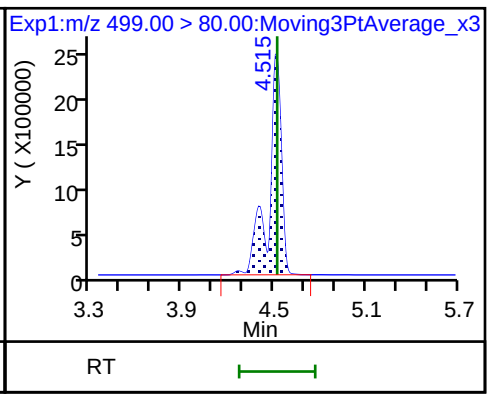
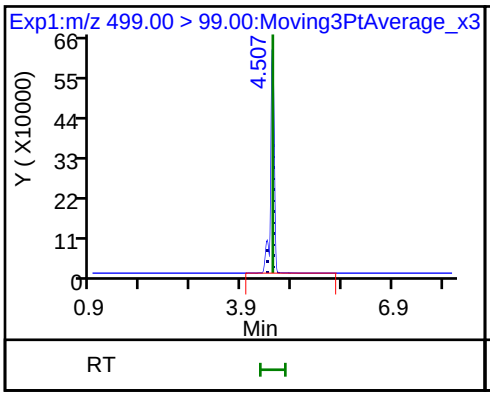


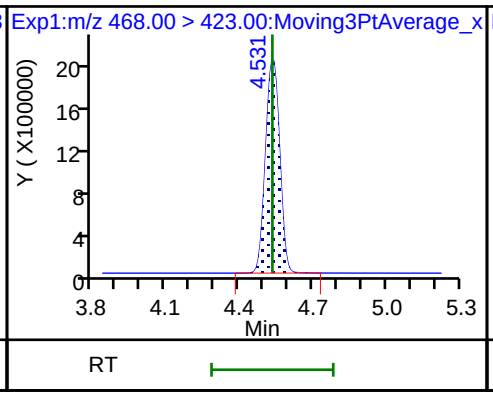
29 Perfluorooctanesulfonic acid



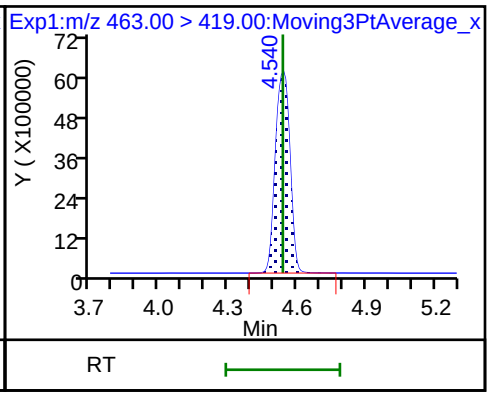
29 Perfluorooctanesulfonic acid



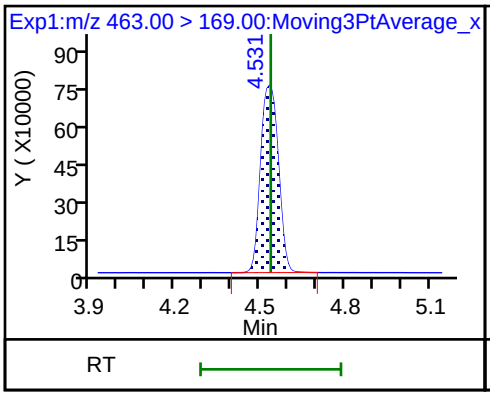
D 30 13C5 PFNA



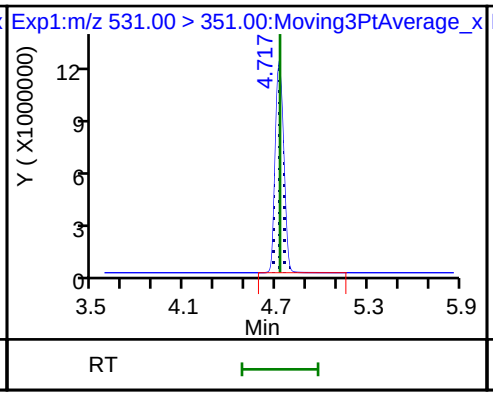
31 Perfluorononanoic acid



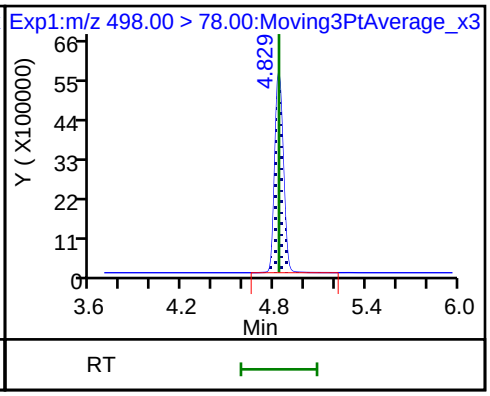
31 Perfluorononanoic acid



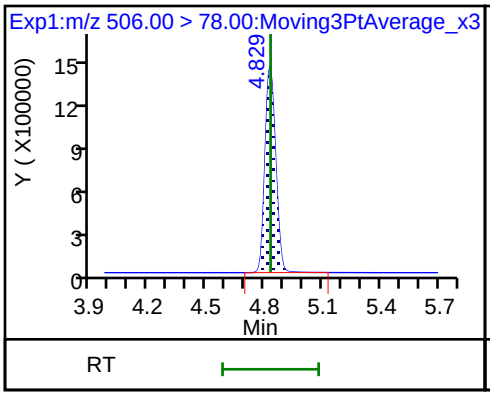
32 9ClFOS



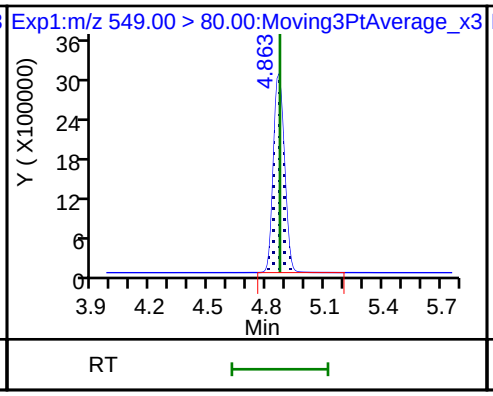
34 Perfluorooctanesulfonamide



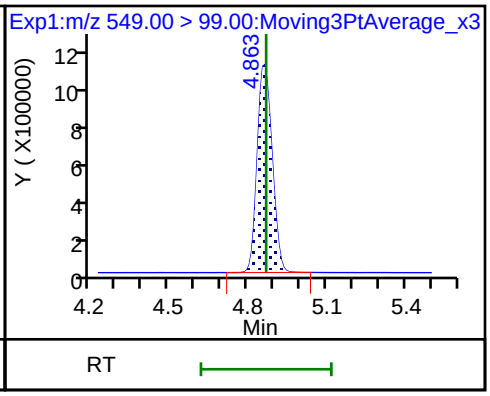
D 33 13C8 FOSA



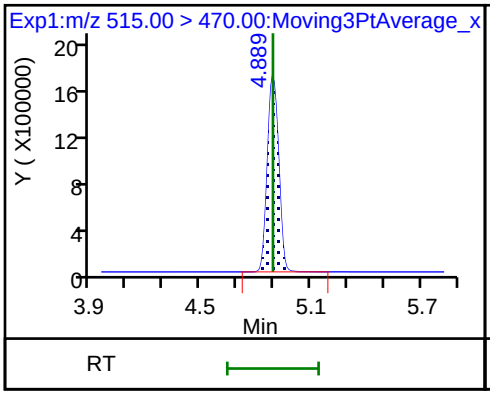
35 Perfluorononanesulfonic acid



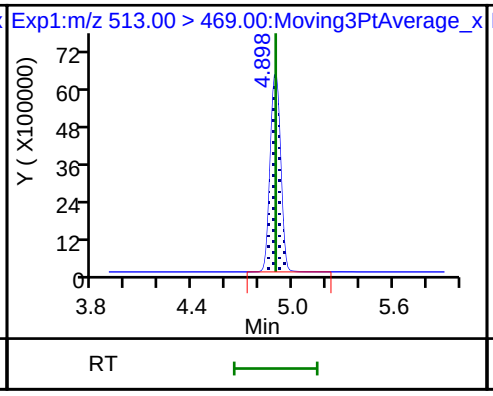
35 Perfluorononanesulfonic acid



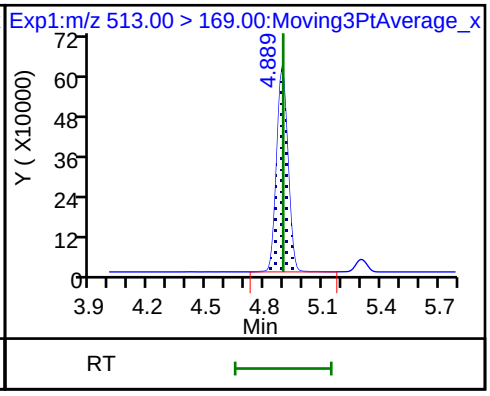
D 39 13C2 PFDA



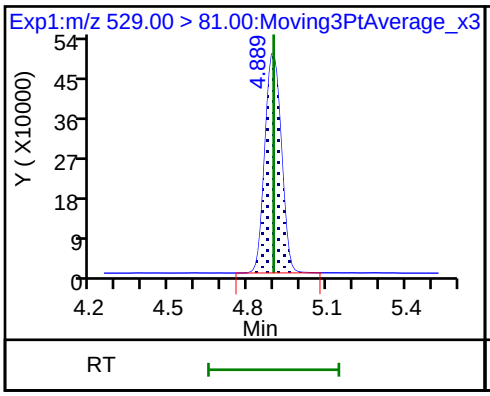
37 Perfluorodecanoic acid



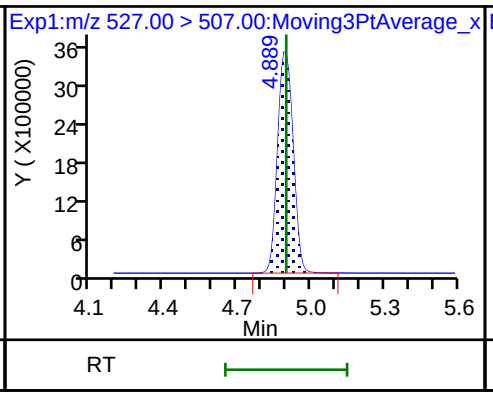
37 Perfluorodecanoic acid



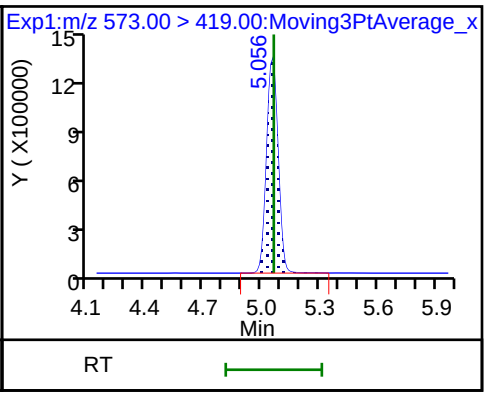
D 38 M2-8:2 FTS



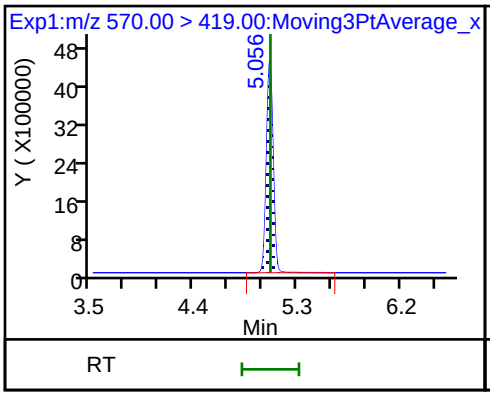
36 8:2 FTS



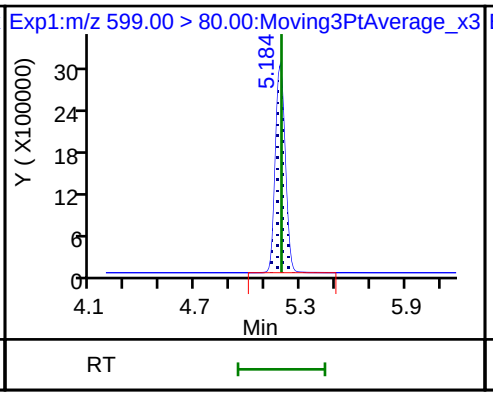
D 40 d3-NMeFOSAA



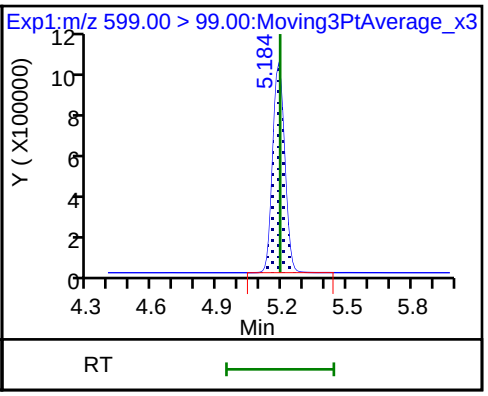
41 NMeFOSAA



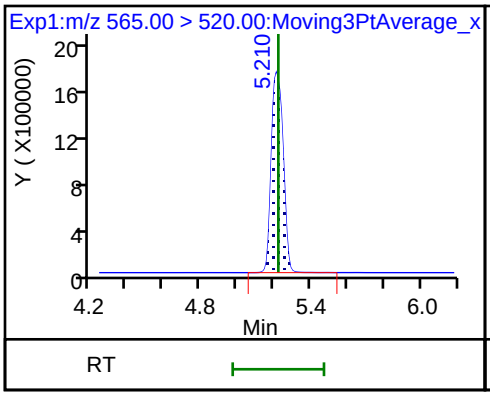
42 Perfluorodecanesulfonic acid



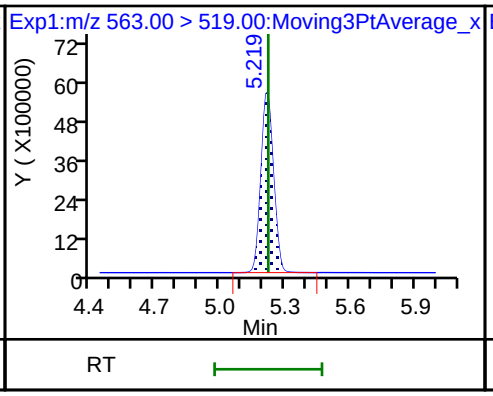
42 Perfluorodecanesulfonic acid



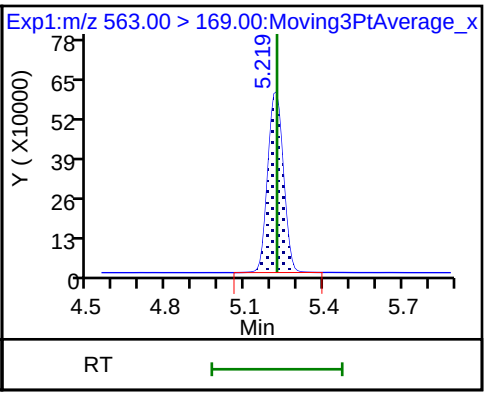
D 43 13C2 PFUnA



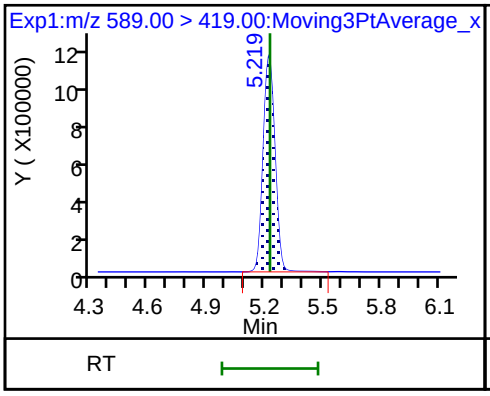
45 Perfluoroundecanoic acid



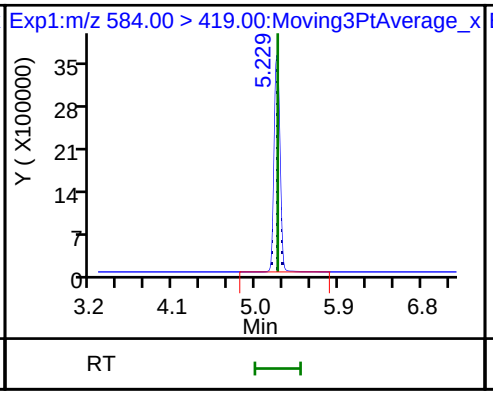
45 Perfluoroundecanoic acid



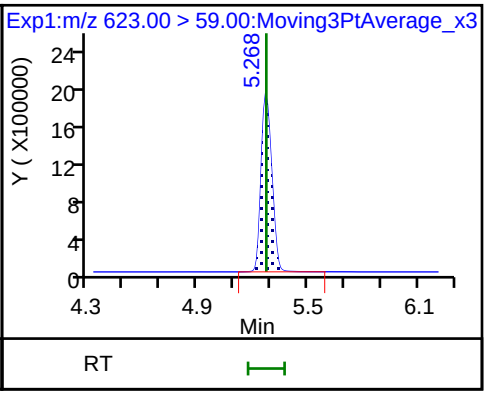
D 44 d5-NEtFOSAA



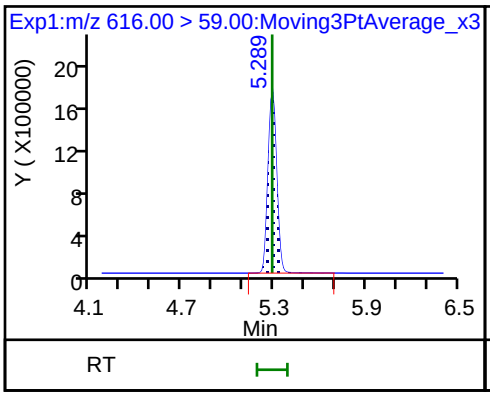
46 NEtFOSA



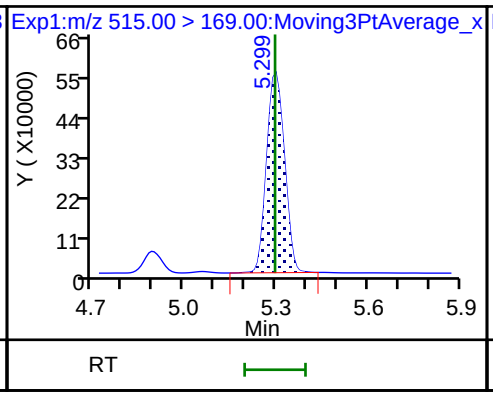
D 47 d7-N-MeFOSE-M



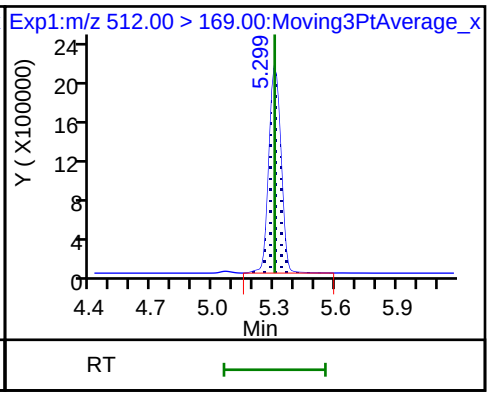
48 N-MeFOSE-M



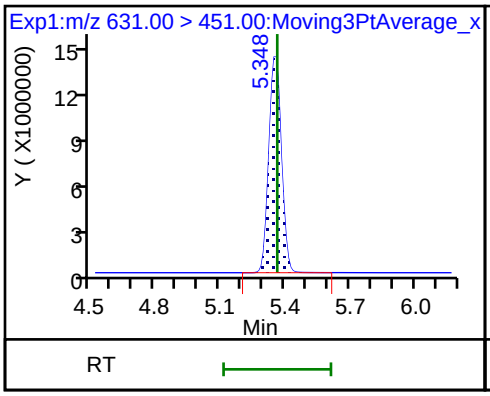
D 49 d-N-MeFOSA-M



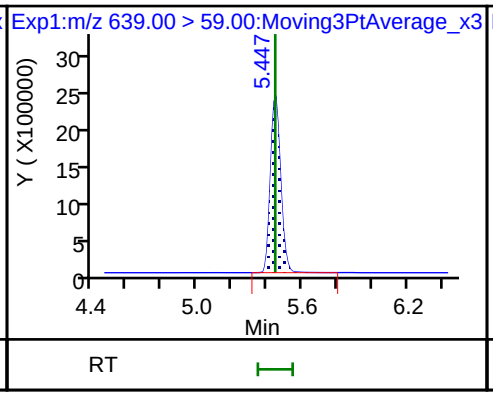
50 NMeFOSA



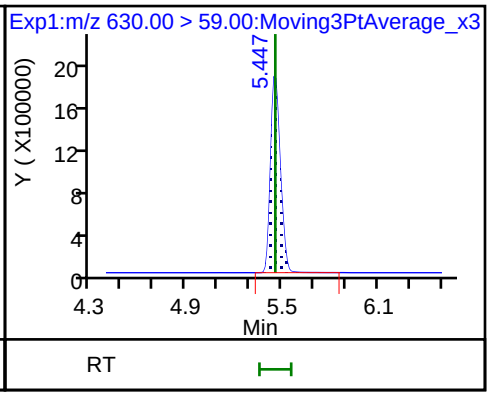
51 11ClFOS



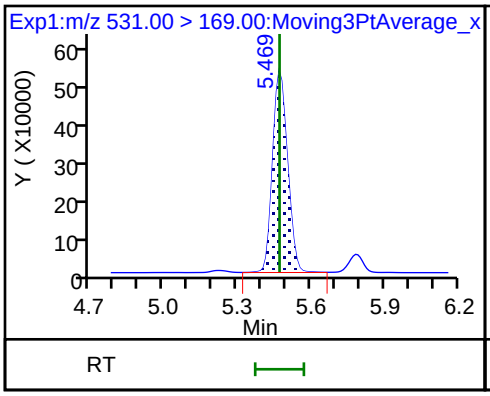
D 52 d9-N-EtFOSE-M



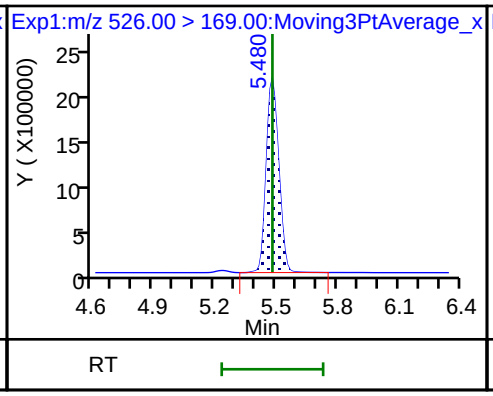
53 N-EtFOSE-M



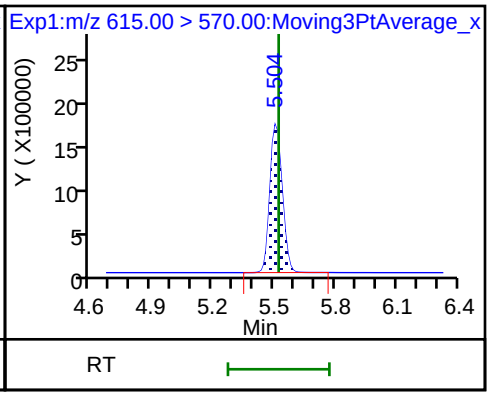
D 54 d-N-EtFOSA-M



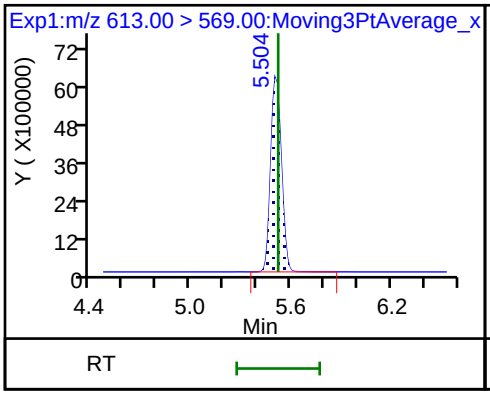
55 N-EtFOSA-M



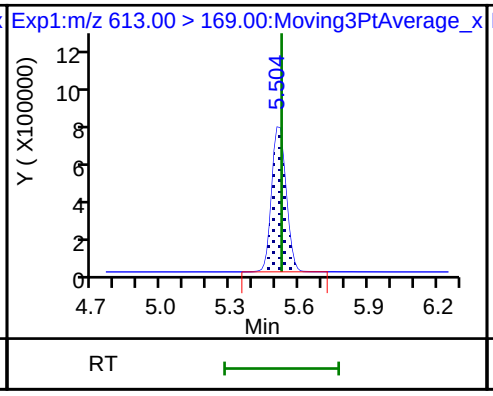
D 56 13C2 PFDoA



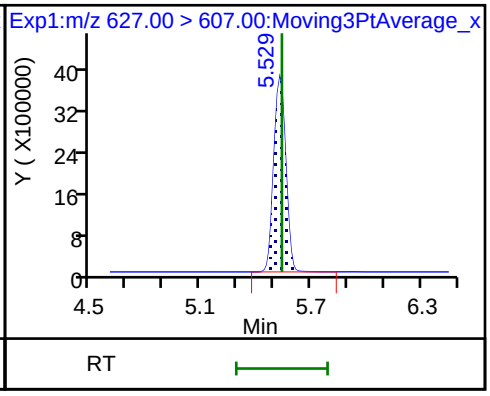
57 Perfluorododecanoic acid



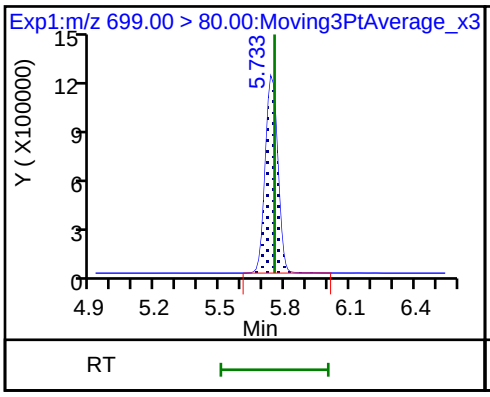
57 Perfluorododecanoic acid



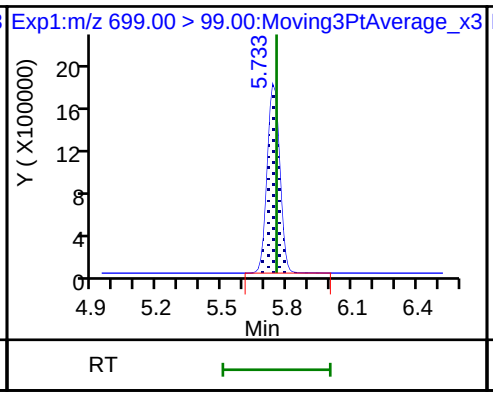
58 10:2 FTS



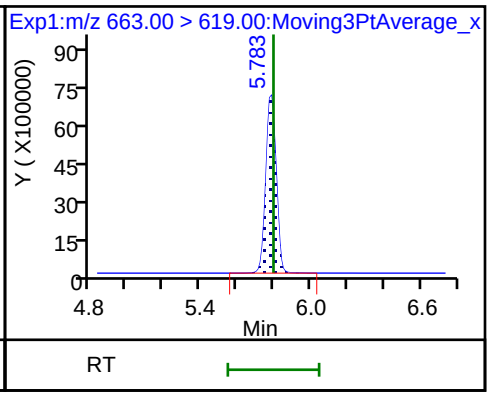
59 PFDoS



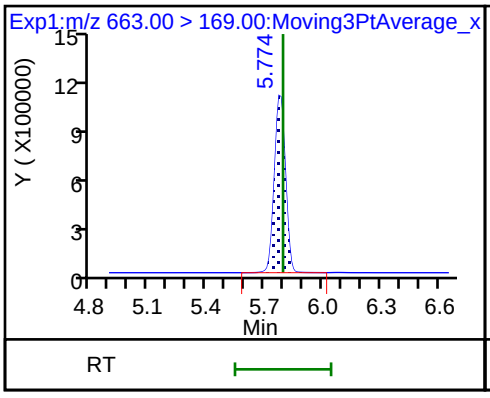
59 PFDoS



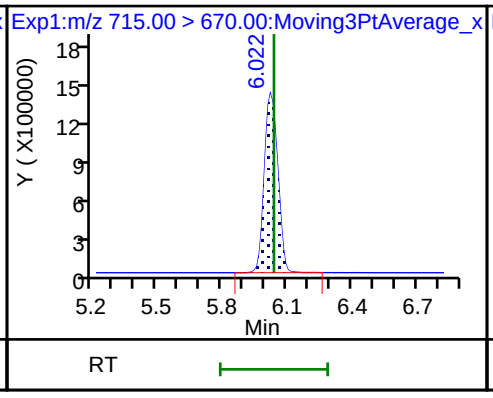
60 Perfluorotridecanoic acid



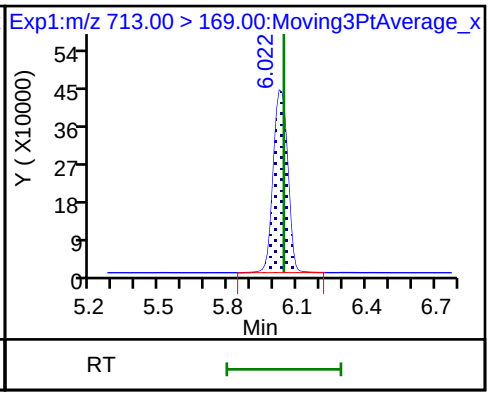
60 Perfluorotridecanoic acid



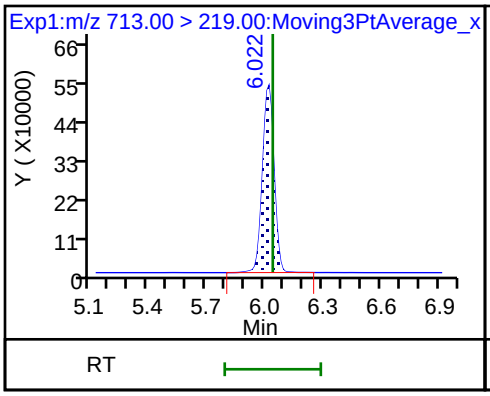
D 61 13C2 PFTeDA



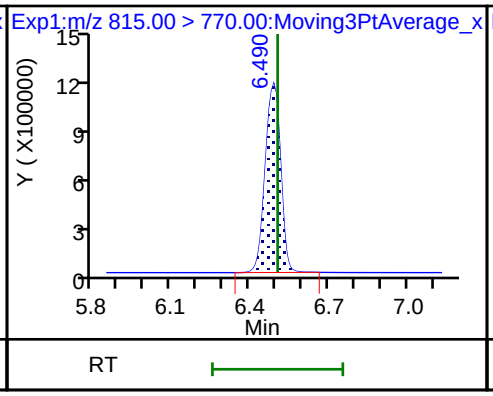
62 Perfluorotetradecanoic acid



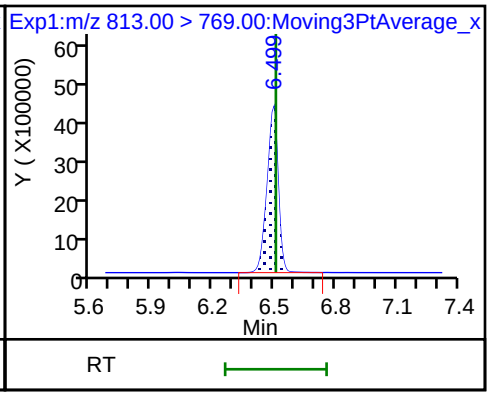
62 Perfluorotetradecanoic acid



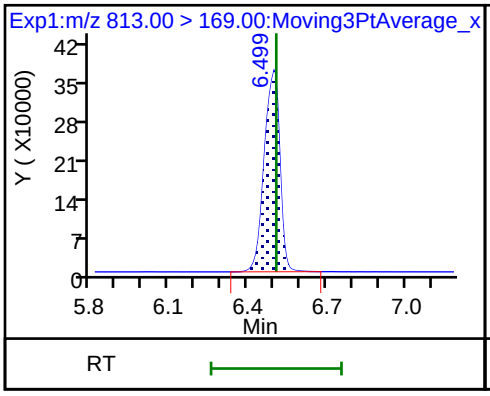
D 64 13C2 PFHxDA



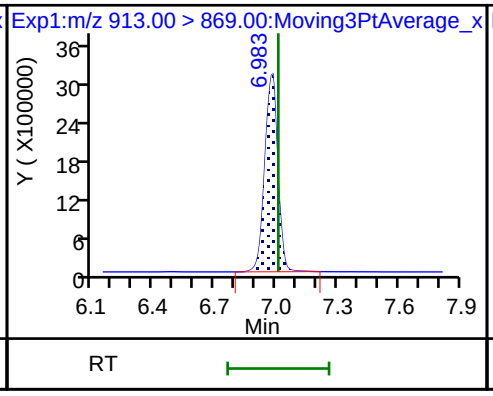
63 Perfluorohexadecanoic acid



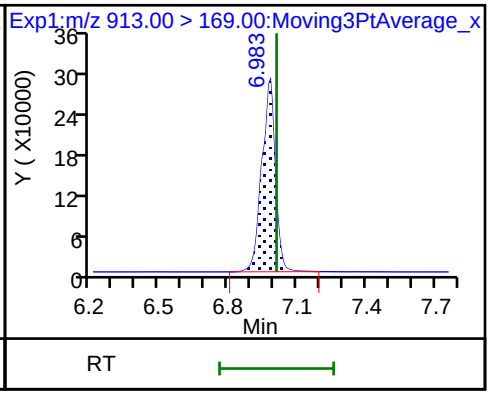
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-410935/2	2020.09.10_A9 _PFC_ICAL_A_016.d
Level 2	IC 320-410935/3	2020.09.10_A9 _PFC_ICAL_A_017.d
Level 3	IC 320-410935/4	2020.09.10_A9 _PFC_ICAL_A_018.d
Level 4	IC 320-410935/5	2020.09.10_A9 _PFC_ICAL_A_019.d
Level 5	IC 320-410935/6	2020.09.10_A9 _PFC_ICAL_A_020.d
Level 6	IC 320-410935/7	2020.09.10_A9 _PFC_ICAL_A_021.d
Level 7	IC 320-410935/13	2020.09.10_A9 _PFC_ICAL_AA_022.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	0.7984 0.8724	0.8085 0.7802	0.8809	0.9930	0.9806	AveID		0.8734				9.8		35.0			
Perfluoropentanoic acid (PFPeA)	1.2236 0.9301	1.0568 0.8432	0.9557	1.0564	1.0576	AveID		1.0176				12.0		35.0			
Perfluorobutanesulfonic acid (PFBS)	0.9954 0.9053	0.9876 0.8439	1.0369	1.1321	1.0823	AveID		0.9977				9.9		35.0			
4:2 FTS	1.6048 2.0978	1.8955 1.9010	1.8943	2.3096	2.1429	AveID		1.9780				11.5		35.0			
Perfluorohexanoic acid (PFHxA)	0.8200 0.7814	0.8436 0.7581	0.8148	0.8865	0.9359	AveID		0.8343				7.3		35.0			
Perfluoropentanesulfonic acid (PFPeS)	0.3671 0.4054	0.3812 0.3832	0.4016	0.4218	0.4506	AveID		0.4016				7.0		50.0			
HFPO-DA (GenX)	0.3984 0.4009	0.3707 0.3835	0.3613	0.4298	0.4265	AveID		0.3959				6.6		35.0			
Perfluoroheptanoic acid (PFHpA)	1.1188 1.0690	1.1768 0.9477	1.1031	1.1617	1.1866	AveID		1.1091				7.5		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3468 1.1387	1.1811 1.0845	1.1224	1.1617	1.2215	AveID		1.1795				7.3		35.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.8302 1.7547	1.6897 1.4714	1.8301	2.0923	2.0240	AveID		1.8132				11.4		50.0			
6:2 FTS	1.7229 1.4874	1.3811 1.4725	1.4525	1.6127	1.6628	AveID		1.5417				8.1		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	0.8601 0.9443	0.8552 0.8323	0.8917	1.0252	1.0623	AveID		0.9244				9.7		50.0			
Perfluorooctanoic acid (PFOA)	1.3089 0.9615	1.1345 0.8881	1.0886	1.0953	1.0725	AveID		1.0785				12.4		35.0			
Perfluorooctanesulfonic acid (PFOS)	1.0782 1.0649	0.9432 0.9717	0.9821	1.0796	1.1580	AveID		1.0397				7.3		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	0.9941 0.9924	0.9537 0.9239	1.0217	1.0435	1.0398	AveID		0.9956				4.5		35.0			
F-53B Major	0.6094 0.6379	0.5073 0.5994	0.6254	0.6657	0.7470	AveID		0.6274				11.5		50.0			
Perfluorooctanesulfonamide (FOSA)	2.7919 2.6408	2.8747 2.4914	2.8497	2.9033	2.9200	AveID		2.7817				5.7		35.0			
Perfluorononanesulfonic acid (PFNS)	0.7178 0.7587	0.7404 0.6606	0.7828	0.8317	0.8215	AveID		0.7591				7.9		50.0			
Perfluorodecanoic acid (PFDA)	0.9574 0.9943	0.9743 0.8406	1.0440	1.0943	1.0815	AveID		0.9981				8.7		35.0			
8:2 FTS	1.2097 1.2933	1.3896 1.2691	1.1625	1.2781	1.4169	AveID		1.2884				7.0		35.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.6243 0.8250	0.6571 0.8318	0.7788	0.7933	0.8045	AveID		0.7593				11.0		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.8252 0.8461	0.7478 0.7978	0.8333	0.9132	0.9810	AveID		0.8492				9.0		50.0			
Perfluoroundecanoic acid (PFUnA)	0.6284 0.7224	0.6636 0.6866	0.6952	0.7282	0.7490	AveID		0.6962				5.9		35.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.7879 0.9088	0.7478 0.8626	0.7425	0.8237	0.8048	AveID		0.8112				7.4		35.0			
NMeFOSE	1.1354 1.0508	0.8405 1.0312	0.9786	1.1361	1.1306	AveID		1.0433				10.4		35.0			
NMeFOSA	1.0323 1.0075	0.9583 1.0292	0.9351	1.1496	1.1895	AveID		1.0431				9.0		35.0			
F-53B Minor	0.5965 0.7644	0.5993 0.7393	0.6905	0.8708	0.9181	AveID		0.7398				16.8		50.0			
NEtFOSE	1.0362 1.0198	0.8057 1.0457	0.9479	1.0626	1.0390	AveID		0.9939				9.1		35.0			
Perfluorododecanoic acid (PFDoA)	0.8254 0.9151	0.9409 0.8067	1.0044	0.9667	0.9786	AveID		0.9197				8.3		35.0			
NEtFOSA	0.9884 0.9651	0.9486 0.9722	0.9404	1.0695	1.0814	AveID		0.9951				5.7		35.0			
10:2 FTS	0.7542 0.8456	0.8744 0.8885	0.7372	0.7508	0.8993	AveID		0.8214				8.7		50.0			
Perfluorododecanesulfonic acid (PFDoS)	0.1099 0.1363	0.1135 0.1348	0.1220	0.1283	0.1432	AveID		0.1269				9.7		50.0			
Perfluorotridecanoic acid (PFTriA)	0.6732 0.7174	0.6743 0.6425	0.7707	0.8009	0.8077	AveID		0.7267				9.2		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2102 0.1691	0.1583 0.1608	0.1799	0.1767	0.1798	AveID		0.1764				9.8		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7556 0.9145	1.2422 0.8693	0.9350	1.0123	0.9895	L2ID	0.0200	0.9147							0.9940		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.6896 0.7308	0.6698 0.6901	0.6937	0.8108	0.9509	AveID		0.7480				13.5		50.0			
13C4 PFBA	1.3324 1.3469	1.2870 1.4548	1.3405	1.3297	1.3569	Ave		1.3497				3.8		50.0			
13C5 PFPeA	1.1305 1.1572	1.0969 1.2020	1.1876	1.0856	1.1079	Ave		1.1382				4.0		50.0			
13C3 PFBS	2.2704 2.2747	2.1272 2.3284	2.2096	2.2690	2.2610	Ave		2.2486				2.8		50.0			
M2-4:2 FTS	0.2463 0.2183	0.2152 0.2193	0.2268	0.2151	0.2217	Ave		0.2233				4.9		50.0			
13C2 PFHxA	1.0817 1.1028	1.0087 1.1124	1.0582	1.0382	1.0067	Ave		1.0584				4.0		50.0			
13C3 HFPO-DA	0.7312 0.7475	0.6883 0.7756	0.7176	0.7169	0.7076	Ave		0.7264				3.9		50.0			
13C4 PFHpA	1.0606 1.0242	0.9779 1.0508	1.0380	1.0321	1.0265	Ave		1.0300				2.6		50.0			
18O2 PFHxS	1.0840 1.0431	1.0201 1.0805	1.1134	1.0985	1.0908	Ave		1.0758				3.0		50.0			
M2-6:2 FTS	0.2021 0.1899	0.1924 0.1828	0.1948	0.1944	0.1913	Ave		0.1925				3.0		50.0			
13C4 PFOA	0.9910 0.9401	0.9467 0.9922	0.9327	0.9835	0.9718	Ave		0.9654				2.6		50.0			
13C4 PFOS	1.1223 1.0946	1.1177 1.1900	1.1235	1.1210	1.0904	Ave		1.1228				2.9		50.0			
13C5 PFNA	0.8171 0.7936	0.8086 0.8513	0.8185	0.8985	0.8756	Ave		0.8376				4.6		50.0			
13C8 FOSA	0.5550 0.5316	0.5074 0.5224	0.5263	0.5284	0.5246	Ave		0.5280				2.7		50.0			
13C2 PFDA	1.1198 1.0437	1.0575 1.0577	1.0867	1.0102	1.0666	Ave		1.0632				3.2		50.0			
M2-8:2 FTS	0.2684 0.2208	0.2235 0.2132	0.2503	0.2522	0.2216	Ave		0.2357				8.9		50.0			
d3-NMeFOSAA	0.5340 0.5485	0.5214 0.5688	0.5106	0.5017	0.5149	Ave		0.5286				4.5		50.0			
13C2 PFUnA	0.7979 0.8094	0.7936 0.8322	0.8260	0.8432	0.8364	Ave		0.8198				2.4		50.0			
d5-NEtFOSAA	0.3501 0.3458	0.3437 0.3504	0.3670	0.3620	0.3600	Ave		0.3541				2.5		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
d7-N-MeFOSE-M	0.1734 0.1674	0.1672 0.1789	0.1705	0.1611	0.1714	Ave		0.1700				3.3		50.0			
d-N-MeFOSA-M	0.2311 0.2558	0.2176 0.2654	0.2313	0.2279	0.2353	Ave		0.2378				7.0		50.0			
d9-N-EtFOSE-M	0.1738 0.1767	0.1722 0.1937	0.1779	0.1727	0.1825	Ave		0.1785				4.3		50.0			
d-N-EtFOSA-M	0.2385 0.2687	0.2289 0.2720	0.2363	0.2405	0.2432	Ave		0.2469				6.8		50.0			
13C2 PFDoA	0.8389 0.7939	0.7987 0.8329	0.7732	0.7926	0.8054	Ave		0.8051				2.9		50.0			
13C2 PFTeDA	0.5545 0.5608	0.5421 0.6091	0.5439	0.5613	0.5586	Ave		0.5615				4.0		50.0			
13C2 PFHxDA	0.4152 0.4316	0.4193 0.4502	0.4141	0.3980	0.3781	Ave		0.4152				5.5		50.0			
13C8 PFOA	0.7951 0.6656	0.7995 0.9302	0.8111	0.8171	0.8429	Ave		0.8088				9.7		50.0			
13C8 PFOS	0.2654 0.2601	0.2432 0.2630	0.2572	0.2504	0.2402	Ave		0.2542				3.9		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-410935/2	2020.09.10_A9 _PFC_ICAL_A_016.d
Level 2	IC 320-410935/3	2020.09.10_A9 _PFC_ICAL_A_017.d
Level 3	IC 320-410935/4	2020.09.10_A9 _PFC_ICAL_A_018.d
Level 4	IC 320-410935/5	2020.09.10_A9 _PFC_ICAL_A_019.d
Level 5	IC 320-410935/6	2020.09.10_A9 _PFC_ICAL_A_020.d
Level 6	IC 320-410935/7	2020.09.10_A9 _PFC_ICAL_A_021.d
Level 7	IC 320-410935/13	2020.09.10_A9 _PFC_ICAL_AA_022.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	69313 14698994	137934 26016733	755326	3251427	7863642	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	90133 13464235	153662 23231288	725976	2824036	6924391	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	130179 22773485	246180 39815345	1295442	5591416	12784101	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	24055 5351034	50503 8926658	256695	1142837	2622239	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	57793 10779295	112791 19328145	551503	2266324	5568440	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	50944 10821051	100810 19185228	532432	2210542	5647334	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	18983 3748656	33818 6818485	165835	758774	1783468	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	77317 13697410	152546 22824600	732378	2952448	7198107	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	86565 13521969	145334 24439953	727417	2859421	7166091	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	126078 22633015	235814 37803976	1238833	5440739	12286344	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	21509 3349205	33398 5847420	171579	731791	1781972	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	59882 12310163	120618 21612393	610012	2694297	6516571	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanoic acid (PFOA)		AveID	84521 11308200	142372 20197112	649485	2655085	6159339	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	73172 13532057	129682 24594195	654930	2765721	6924966	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	52926 9851874	102230 18028540	534880	2313472	5380779	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
F-53B Major		AveID	41537 8140600	70052 15237600	418832	1712587	4486251	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctanesulfonamide (FOSA)		AveID	100960 17563337	193336 29831465	959339	3777803	9052662	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	50392 9973320	105305 17298133	540009	2204044	5081895	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveID	69860 12982222	136570 20379921	725683	2722259	6816935	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
8:2 FTS		AveID	20267 3422014	39446 5940630	178280	760505	1777666	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	21721 5660500	45421 10844354	254355	980061	2448364	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	58175 11169249	106796 20976727	577252	2430075	6094197	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveID	32671 7315314	69809 13097707	367263	1513496	3702181	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	17973 3931329	34070 6927848	174286	734316	1712166	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NMeFOSE		AveID	12829 2200699	18624 4229635	106728	450645	1144996	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NMeFOSA		AveID	15545 3224319	27638 6260597	138365	645147	1653934	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
F-53B Minor		AveID	41091 9859916	83643 18995447	467393	2264304	5572953	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
NEtFOSE		AveID	11732 2254902	18393 4643129	107836	451734	1120322	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorododecanoic acid (PFDoA)		AveID	45119 9088336	99619 15400710	496720	1897971	4657557	0.0250 5.00	0.0500 10.0	0.250	1.01	2.50
NEtFOSA		AveID	15363 3243753	28777 6060955	142130	633467	1554311	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
10:2 FTS		AveID	12715 2251394	24976 4185075	113753	449573	1135361	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveID	7783 1806840	16271 3559961	84857	342753	893169	0.0242 4.84	0.0484 9.68	0.242	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveID	36800 7125186	71389 12266037	381160	1563186	3844406	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	7595 1186334	11378 2245611	62584	244523	593557	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	47498 4937240	69039 8969968	247697	992148	2210855	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	18658 3945625	37227 7120596	183768	794719	2124571	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4 PFBA	13PF OA	Ave	8681635 8424890	8530166 8336188	8574576	8185504	8019248	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PF OA	Ave	7365999 7238418	7270115 6887818	7596317	6683295	6547408	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 PFBS	13PF OA	Ave	13758101 13232169	13111521 12408129	13144085	12990046	12426682	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2 FTS	13PF OA	Ave	1498962 1275389	1332209 1173922	1355074	1237052	1223709	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PF OA	Ave	7048312 6897732	6685304 6374110	6768409	6391446	5949563	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PF OA	Ave	4764722 4675328	4561962 4444390	4590213	4413524	4181969	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFHpA	13PF OA	Ave	6910814 6406416	6481134 6021243	6639108	6353500	6066212	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	6681612 6172326	6395663 5857043	6737106	6397044	6098488	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2 FTS	13PF OA	Ave	1251075 1128229	1211683 994866	1183789	1136846	1073906	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	6457425 5880244	6274406 5685447	5966056	6054330	5743064	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	6991246 6545285	7081760 6518762	6869985	6597517	6160459	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	5324119 4963721	5359539 4878315	5235235	5531319	5174599	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	3616177 3325401	3362698 2993418	3366493	3252977	3100275	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDA	13PF OA	Ave	7296508 6528469	7008972 6061061	6950885	6218902	6303374	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2 FTS	13PF OA	Ave	1675390 1323008	1419334 1170256	1533540	1487565	1254651	2.40 2.40	2.40 2.40	2.40	2.40	2.40
d3-NMeFOSAA	13PF OA	Ave	3479311 3430778	3456007 3259183	3265971	3088740	3043182	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	5199324 5062947	5260148 4768918	5283112	5190650	4942965	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	2280997 2162876	2277884 2007740	2347427	2228634	2127548	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d7-N-MeFOSE-M	13PF OA	Ave	5649485 5236014	5539720 5127070	5453120	4958225	5063638	12.5 12.5	12.5 12.5	12.5	12.5	12.5
d-N-MeFOSA-M	13PF OA	Ave	1505895 1600165	1442000 1520689	1479722	1402993	1390439	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d9-N-EtFOSE-M	13PF OA	Ave	5660827 5527700	5707198 5550151	5688046	5314215	5391350	12.5 12.5	12.5 12.5	12.5	12.5	12.5

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1 Analy Batch No.: 410935

SDG No.:

Instrument ID: A9 GC Column: Acquity ID: 2.1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/10/2020 10:18 Calibration End Date: 09/10/2020 12:29 Calibration ID: 51814

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
d-N-EtFOSA-M	13PF OA	Ave	1554351 1680611	1516817 1558608	1511320	1480814	1437287	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	5466137 4965995	5293603 4772733	4945538	4879307	4759594	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFTeDA	13PF OA	Ave	3612854 3507700	3593219 3490257	3478825	3455387	3301033	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFHxDA	13PF OA	Ave	2705504 2699505	2778903 2579666	2649042	2450268	2234345	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 PFOA	13PF OA	Ave	5071767 4075755	5187915 5218033	5079092	4924358	4876993	2.45 2.45	2.45 2.45	2.45	2.45	2.45
13C8 PFOS	13PF OA	Ave	1653033 1555416	1541260 1440919	1572962	1473644	1357043	2.39 2.39	2.39 2.39	2.39	2.39	2.39

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Sep-2020 10:18:34 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD1_21
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:14:04 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 10:37:58
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.900	1.901	-0.001	0.561	8681635	2.47		98.7	3375	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.908	1.904	0.004	1.004	69313	0.0229		91.4	5.2	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.214	2.211	0.003	0.654	7365999	2.48		99.3	3206	
3 Perfluoropentanoic acid										M
262.90 > 219.00	2.214	2.211	0.003	1.000	90133	0.0301		120	7.6	M
D 6 13C3 PFBS										
301.90 > 80.00	2.243	2.241	0.002	0.662	13758101	2.35		101	2987	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.243	2.244	-0.001	1.000	130179	0.0221	Target=3.10	99.8	11.6	M
298.90 > 99.00	2.243	2.244	-0.001	1.000	40896		3.18(1.55-4.65)	99.8	11.4	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.536	2.533	0.003	0.749	1498962	2.58		110	830	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.536	2.535	0.001	1.000	24055	0.0189		81.1	146	
D 10 13C2 PFHxA										
315.00 > 270.00	2.578	2.573	0.005	0.761	7048312	2.56		102	3547	
11 Perfluorohexanoic acid										M
313.00 > 269.00	2.578	2.573	0.005	1.000	57793	0.0246	Target=9.68	98.3	9.3	M
313.00 > 119.00	2.568	2.573	-0.005	0.996	6073		9.52(4.84-14.52)	98.3	3.9	
12 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.589	2.587	0.002	1.154	50944	0.0214	Target=2.01	91.4	14.2	M
349.00 > 99.00	2.589	2.587	0.002	1.154	23693		2.15(1.00-3.01)	91.4	29.2	
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.696	2.691	0.005	1.000	18983	0.0252		101	112	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.696	2.692	0.004	0.796	4764722	2.52		101	4656	
D 15 13C4 PFHpA										
367.00 > 322.00	2.968	2.965	0.003	0.877	6910814	2.57		103	4048	
18 Perfluoroheptanoic acid										M
363.00 > 319.00	2.974	2.966	0.008	1.002	77317	0.0252	Target=3.74	101	14.6	M
363.00 > 169.00	2.968	2.966	0.002	1.000	20838		3.71(1.87-5.61)	101	19.7	
D 17 18O2 PFHxS										
403.00 > 84.00	2.974	2.969	0.005	0.878	6681612	2.38		101	1956	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.980	2.971	0.009	1.002	86565	0.0260	Target=3.29	114	26.2	M
399.00 > 99.00	2.980	2.971	0.009	1.002	27606		3.14(1.65-4.94)	114	26.6	M
19 DONA										
377.00 > 251.00	3.024	3.017	0.007	0.804	126078	0.0238	Target=1.80	101	266	
377.00 > 85.00	3.017	3.017	0.0	0.802	62980		2.00(0.90-2.70)	101	153	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.360	3.352	0.008	0.992	1251075	2.49		105	1240	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.360	3.353	0.007	1.000	21509	0.0265		112	39.6	
$ 21 13C8 PFOA										
421.00 > 376.00	3.368	3.362	0.006	0.995	5071767	2.41		98.3	5663	
23 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.376	3.369	0.007	0.898	59882	0.0221	Target=3.65	93.0	21.1	M
449.00 > 99.00	3.376	3.369	0.007	0.898	16337		3.67(1.83-5.48)	93.0	47.8	
24 Perfluorooctanoic acid										M
413.00 > 369.00	3.376	3.375	0.001	0.997	84521	0.0303	Target=2.37	121	21.3	M
413.00 > 169.00	3.386	3.375	0.011	1.000	34639		2.44(1.19-3.56)	121	47.9	
* 25 13C2 PFOA										
415.00 > 370.00	3.386	3.376	0.010		6515967	2.50			4301	
D 26 13C4 PFOA										
417.00 > 372.00	3.386	3.376	0.010	1.000	6457425	2.57		103	3633	
$ 27 13C8 PFOS										
507.00 > 99.00	3.753	3.748	0.005	1.108	1653033	2.49		104	3034	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.762	3.756	0.006	1.000	73172	0.0241	Target=4.12	104	11.3	M
499.00 > 99.00	3.762	3.756	0.006	1.000	16625		4.40(2.06-6.17)	104	36.5	M
D 31 13C4 PFOS										
503.00 > 80.00	3.762	3.756	0.006	1.111	6991246	2.39		100.0	1542	
D 29 13C5 PFNA										
468.00 > 423.00	3.780	3.767	0.013	1.116	5324119	2.44		97.6	2881	
30 Perfluorononanoic acid										
463.00 > 419.00	3.780	3.770	0.010	1.000	52926	0.0250	Target=4.21	99.8	42.8	
463.00 > 169.00	3.780	3.770	0.010	1.000	12883		4.11(2.11-6.32)	99.8	20.3	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.965	3.956	0.009	1.054	41537	0.0226		97.1	202	
D 36 13C8 FOSA										
506.00 > 78.00	4.091	4.086	0.005	1.208	3616177	2.63		105	3559	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.091	4.086	0.005	1.000	100960	0.0251		100	220	
35 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.118	4.106	0.012	1.095	50392	0.0227	Target=5.56	94.6	32.1	
549.00 > 99.00	4.118	4.106	0.012	1.095	9023		5.58(2.78-8.34)	94.6	30.6	M
D 33 13C2 PFDA										
515.00 > 470.00	4.135	4.130	0.005	1.221	7296508	2.63		105	5783	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.144	4.132	0.012	1.002	69860	0.0240	Target=14.33	95.9	48.5	
513.00 > 169.00	4.153	4.132	0.021	1.004	4344		16.08(7.16-21.49)	95.9	12.9	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.144	4.133	0.011	1.224	1675390	2.73		114	1219	
39 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.153	4.135	0.018	1.002	20267	0.0225		93.9	202	M
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.307	4.295	0.011	1.272	3479311	2.53		101	3340	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.307	4.299	0.007	1.000	21721	0.0206		82.2	1.9	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.443	4.427	0.016	1.181	58175	0.0234	Target=4.29	97.2	24.9	
599.00 > 99.00	4.434	4.427	0.007	1.179	12486		4.66(2.15-6.44)	97.2	45.6	
D 46 13C2 PFUnA										
565.00 > 520.00	4.469	4.455	0.013	1.320	5199324	2.43		97.3	5111	
43 Perfluoroundecanoic acid										M
563.00 > 519.00	4.469	4.455	0.013	1.000	32671	0.0226	Target=6.74	90.3	48.4	M
563.00 > 169.00	4.469	4.455	0.013	1.000	3844		8.50(3.37-10.11)	90.3	9.5	M
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.469	4.460	0.008	1.320	2280997	2.47		98.9	2230	
44 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.477	4.467	0.010	1.002	17973	0.0243		97.1	146	M
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.546	4.546	0.0	1.342	5649485	12.8		102	4827	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.563	4.557	0.006	1.004	12829	0.0272		109	26.6	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.563	4.565	-0.002	1.348	1505895	2.43		97.2	220	
50 NMeFOSA										
512.00 > 169.00	4.572	4.569	0.003	1.002	15545	0.0247		99.0	79.3	
51 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.599	4.588	0.011	1.222	41091	0.0190		80.6	271	M
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.721	4.718	0.003	1.394	5660827	12.2		97.3	5552	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.730	4.731	-0.001	1.002	11732	0.0261		104	29.7	
52 Perfluorododecanoic acid										M
613.00 > 569.00	4.763	4.747	0.016	1.002	45119	0.0224	Target=6.67	89.8	64.7	M
613.00 > 169.00	4.763	4.747	0.016	1.002	7832		5.76(3.34-10.01)	89.8	62.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	4.756	4.747	0.009	1.405	5466137	2.60		104	5032	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.739	4.741	-0.002	1.400	1554351	2.42		96.6	1048	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.748	4.749	-0.001	1.002	15363	0.0248		99.3	61.9	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.778	4.766	0.012	1.153	12715	0.0221		91.8	223	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.994	4.978	0.016	1.327	7783	0.0210	Target=1.02	86.7	13.3	
699.00 > 99.00	4.994	4.978	0.016	1.327	8598		0.91(0.51-1.53)	86.7	68.2	
60 Perfluorotridecanoic acid										M
663.00 > 619.00	5.029	5.013	0.016	1.057	36800	0.0232	Target=4.80	92.6	144	M
663.00 > 169.00	5.029	5.013	0.016	1.057	7515		4.90(2.40-7.20)	92.6	46.5	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.276	5.258	0.018	1.558	3612854	2.47		98.8	5115	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.276	5.259	0.017	1.000	7595	0.0298	Target=1.37	119	83.1	
713.00 > 219.00	5.285	5.259	0.026	1.002	5204		1.46(0.69-2.06)	119	42.9	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.726	5.703	0.023	1.691	2705504	2.50		100	6854	
64 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.726	5.705	0.021	1.000	47498	0.0261	Target=4.63	104	118	M
813.00 > 169.00	5.726	5.705	0.021	1.000	9855		4.82(2.32-6.95)	104	111	
65 Perfluorooctadecanoic acid										M
913.00 > 869.00	6.173	6.139	0.034	1.078	18658	0.0231	Target=4.01	92.2	90.5	M
913.00 > 169.00	6.173	6.139	0.034	1.078	5090		3.67(2.01-6.02)	92.2	53.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00021 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:14:08 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d

Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9

Lims ID: IC L1

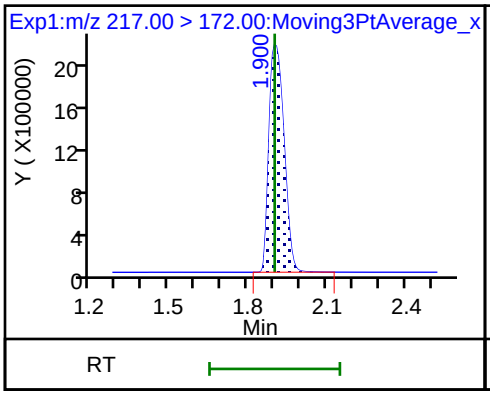
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



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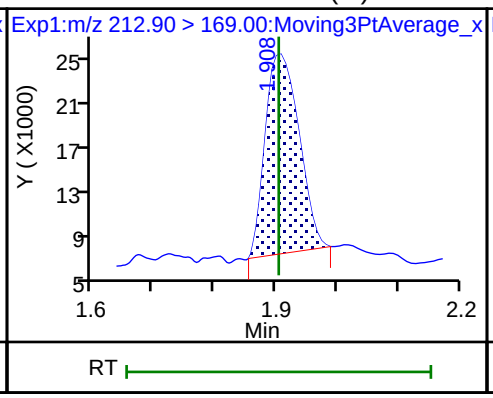
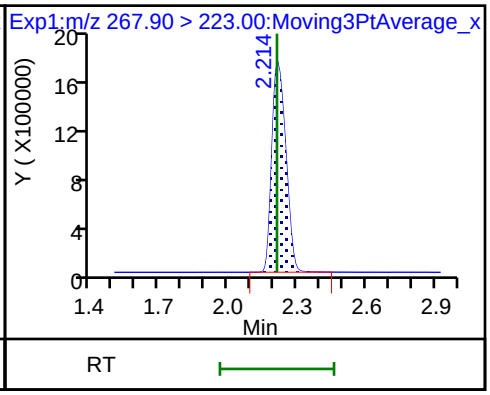


D 4 13C5 PFPeA



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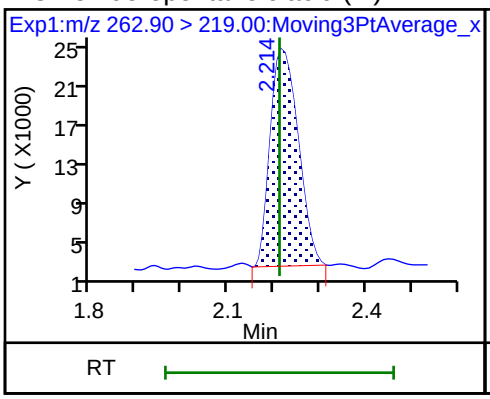
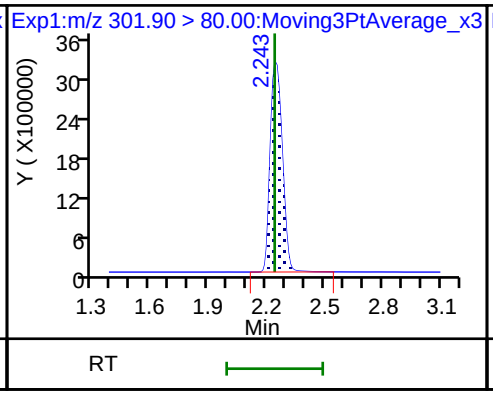


D 6 13C3 PFBS



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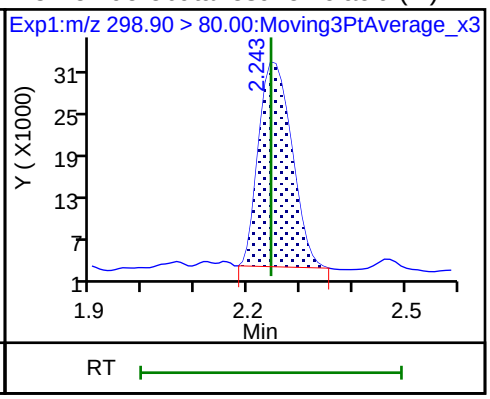
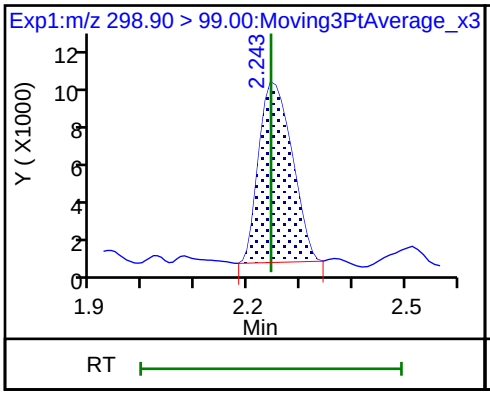
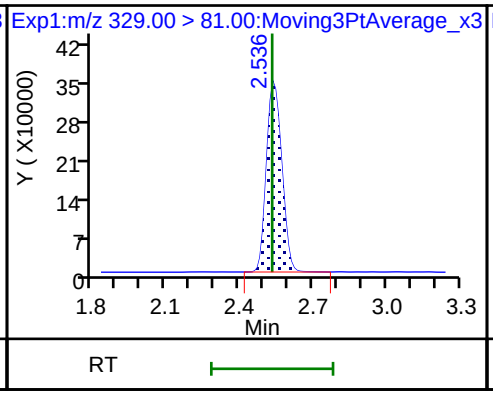


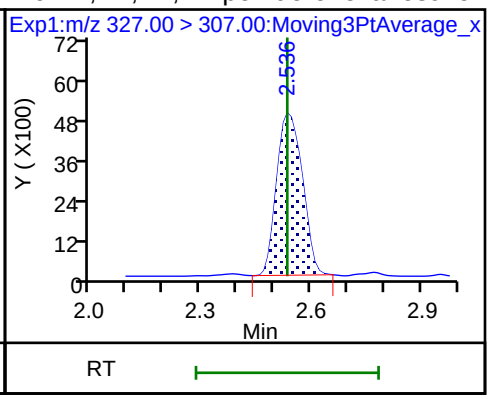
5 Perfluorobutanesulfonic acid



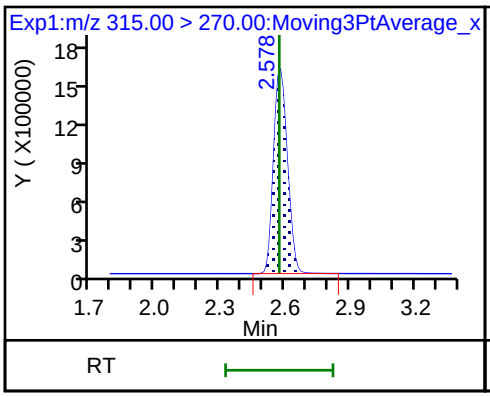
D 8 M2-4:2 FTS



9 1H,1H,2H,2H-perfluorohexanesulfo



D 10 13C2 PFHxA



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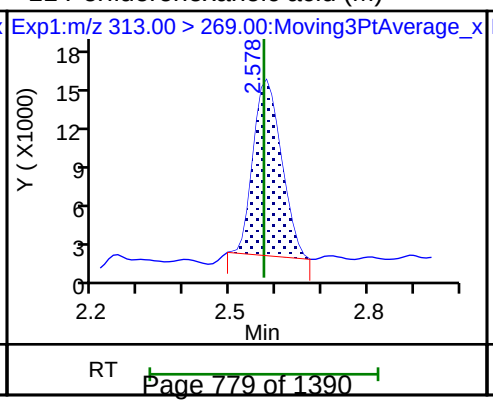

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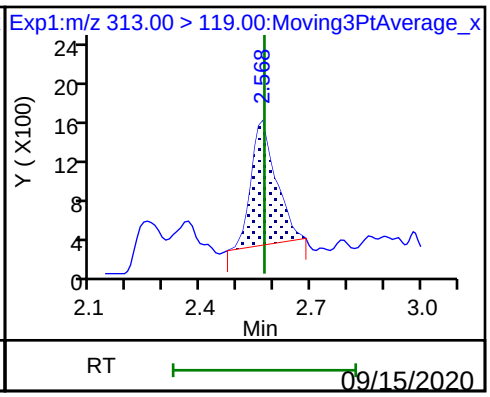
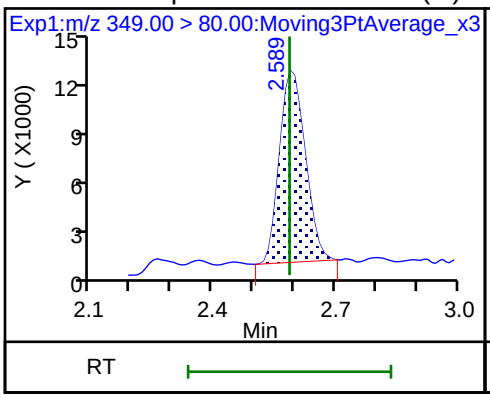


12 Perfluoropentanesulfonic acid (M)



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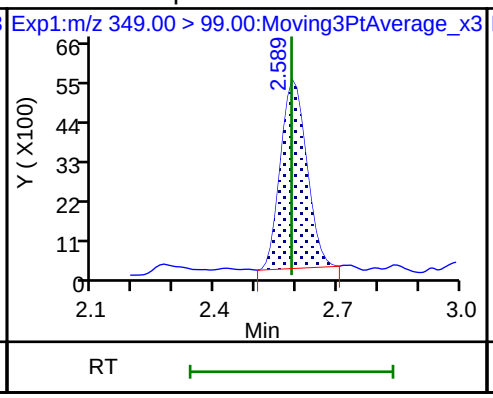
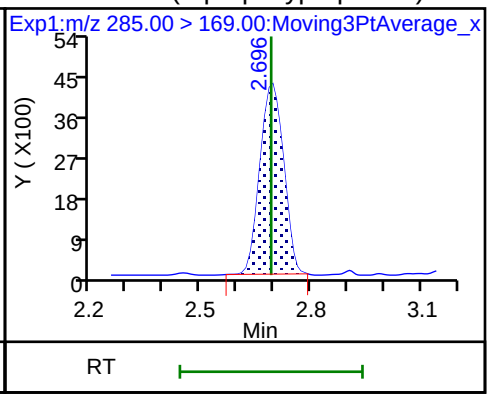
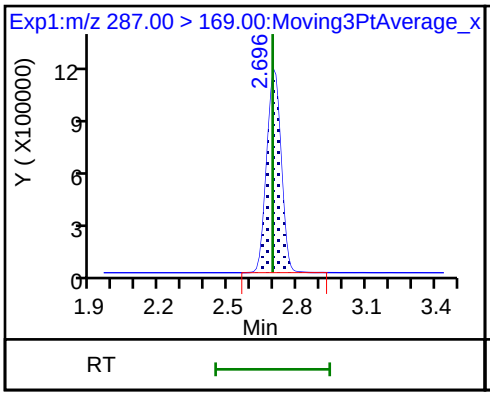


14 Perfluoro(2-propoxypropanoic) ac



D 13 13C3 HFPO-DA



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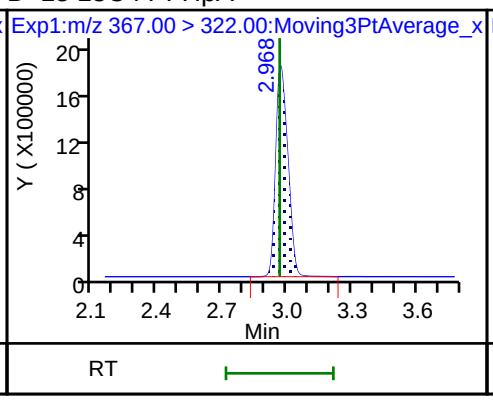
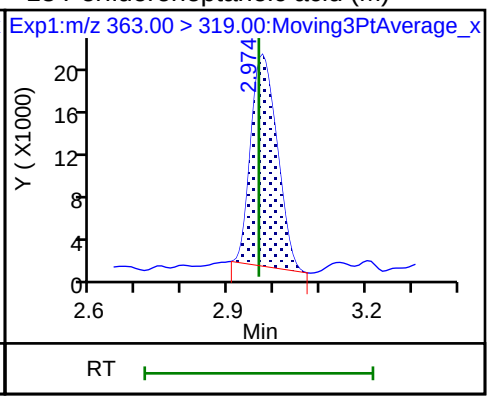


18 Perfluoroheptanoic acid (M)



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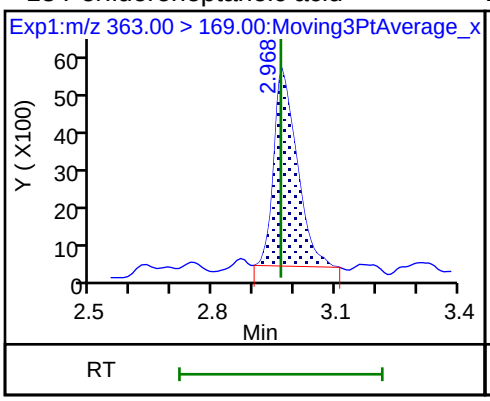
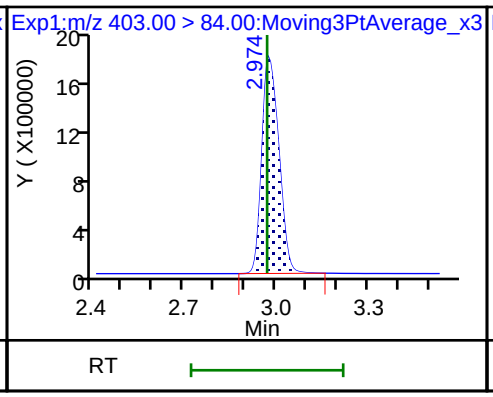
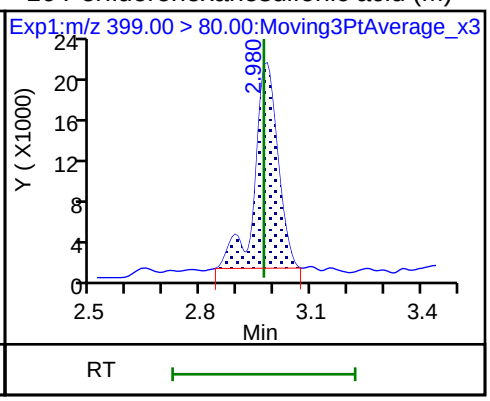


D 17 18O2 PFHxS



16 Perfluorohexanesulfonic acid (M)



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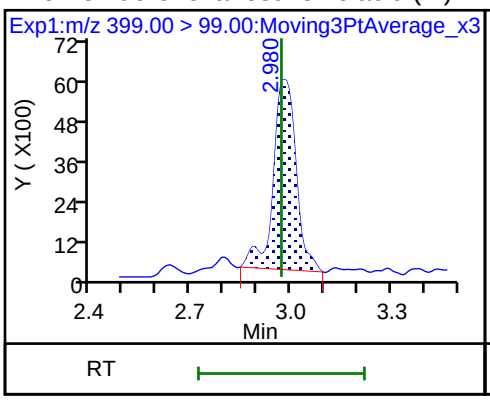
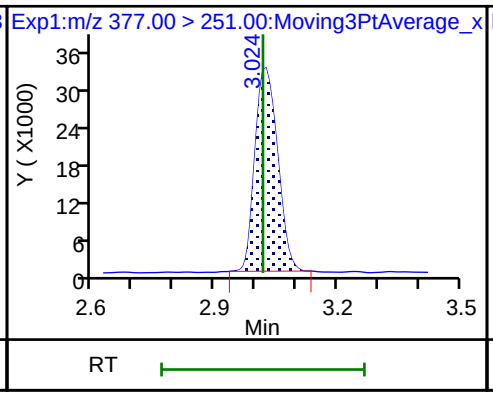


19 DONA



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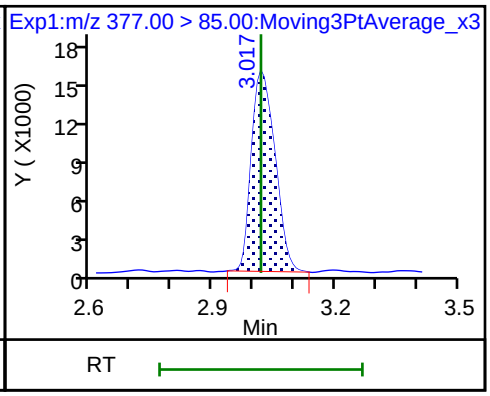
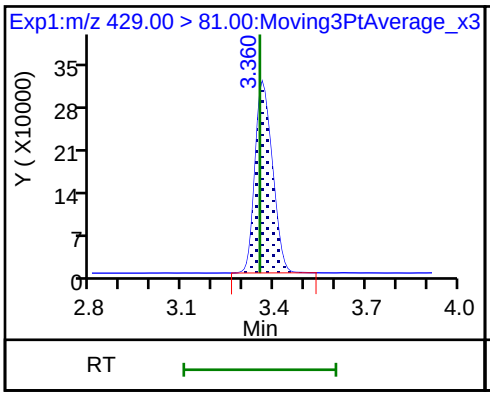
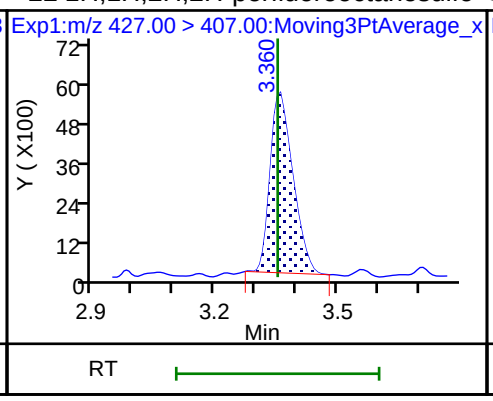


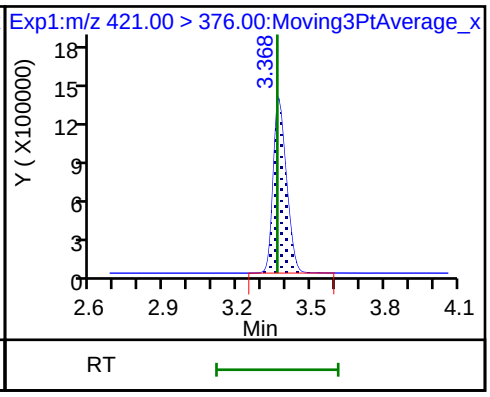
D 20 M2-6:2 FTS



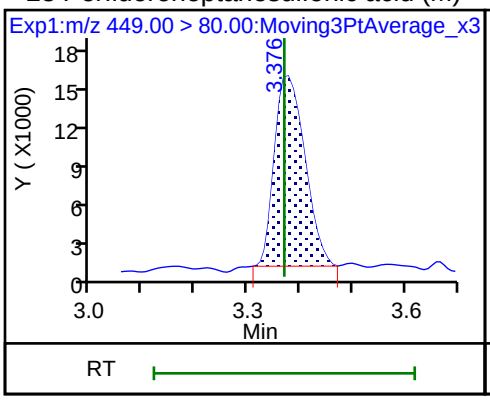
22 1H,1H,2H,2H-perfluorooctanesulfo



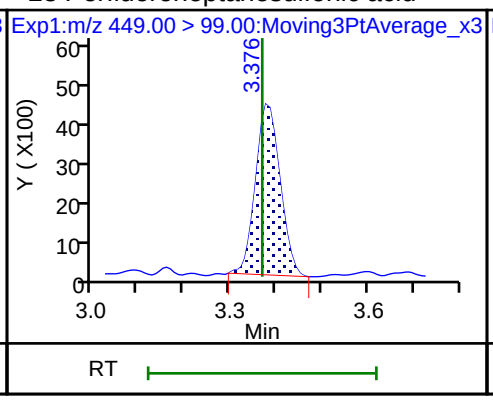
$ 21 13C8 PFOA



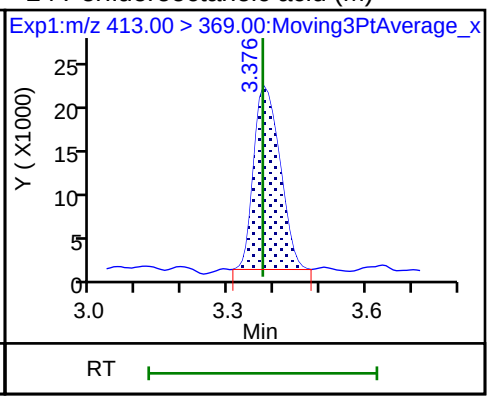
23 Perfluoroheptanesulfonic acid (M)



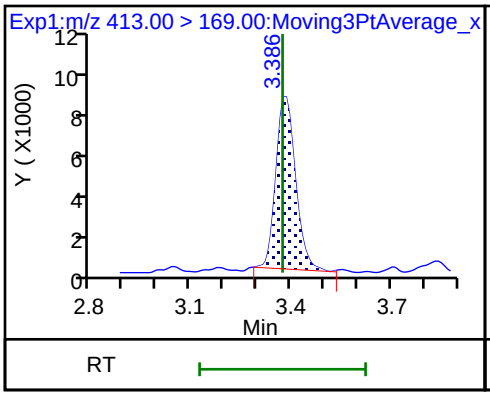
23 Perfluoroheptanesulfonic acid



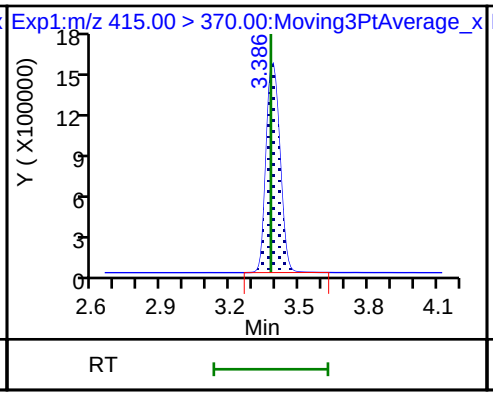
24 Perfluorooctanoic acid (M)



24 Perfluorooctanoic acid



* 25 13C2 PFOA



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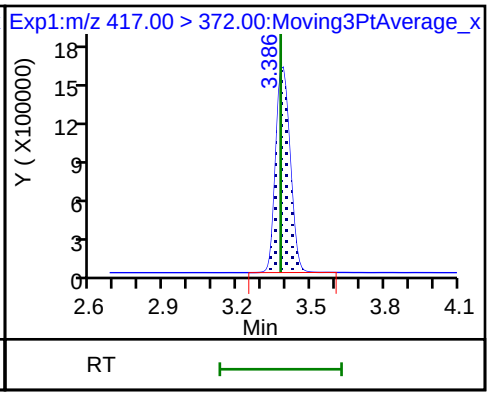
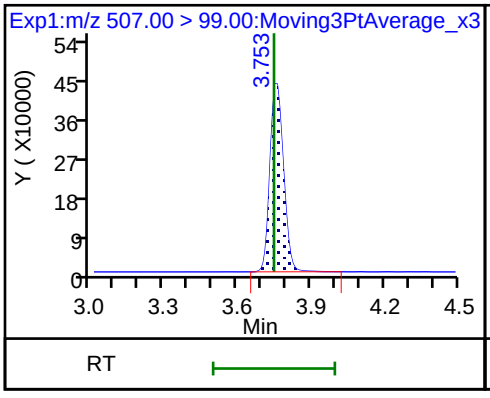
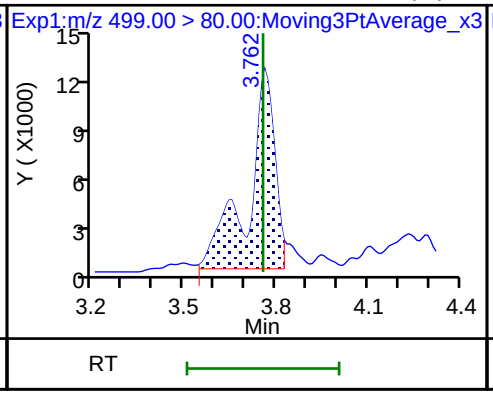


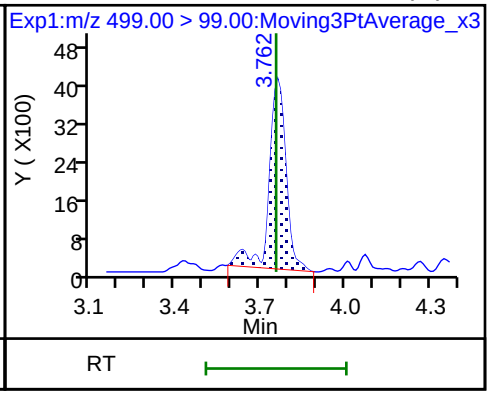
$ 27 13C8 PFOS



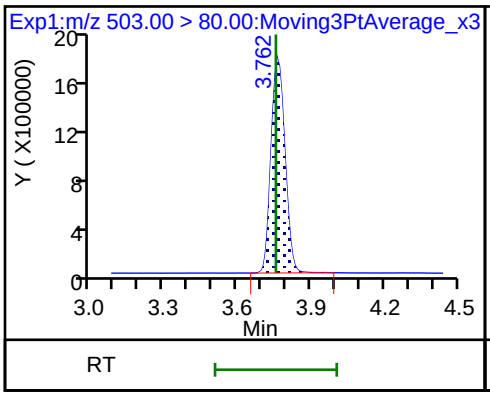
28 Perfluorooctanesulfonic acid (M)



28 Perfluorooctanesulfonic acid (M)



D 31 13C4 PFOS



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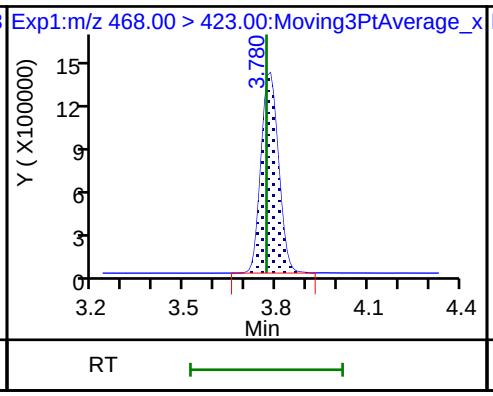
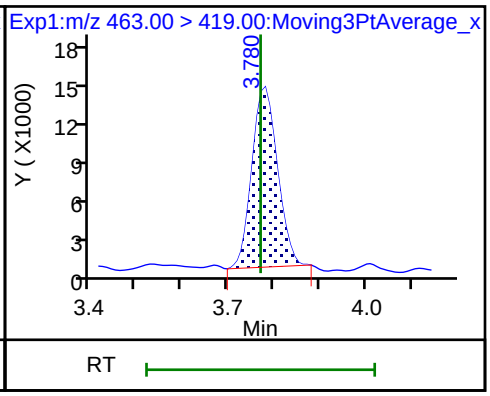


30 Perfluorononanoic acid



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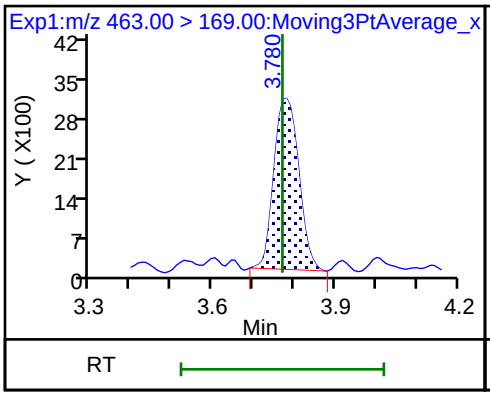
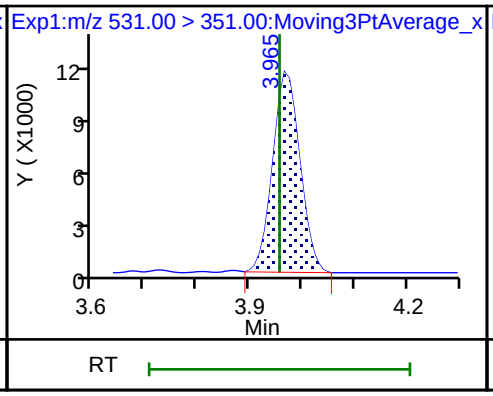
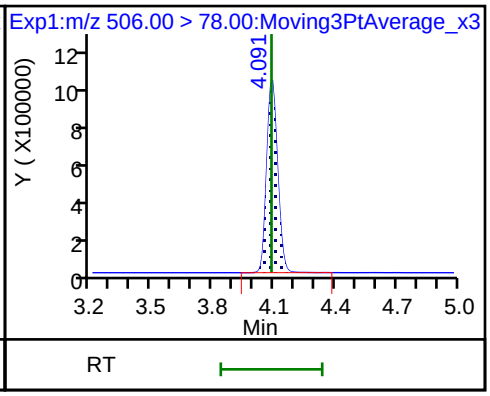


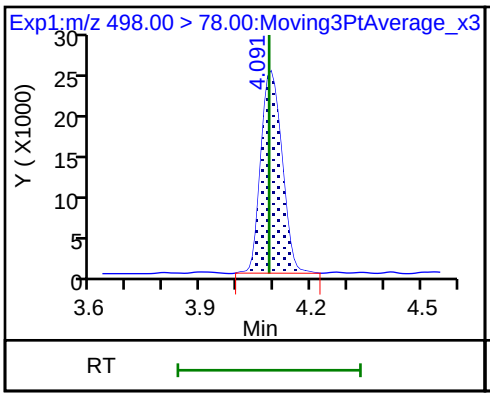
32 9-Chlorohexadecafluoro-3-oxanona



D 36 13C8 FOSA



34 Perfluorooctanesulfonamide



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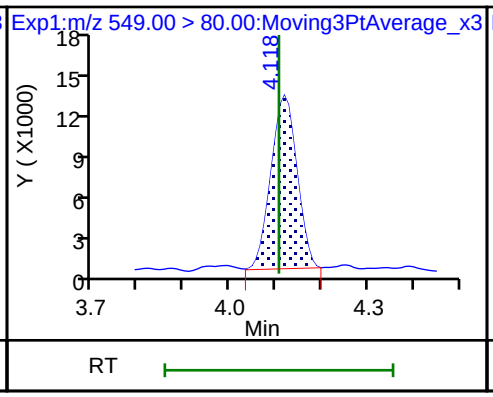
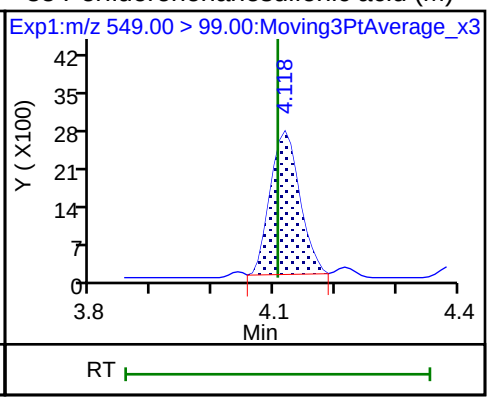
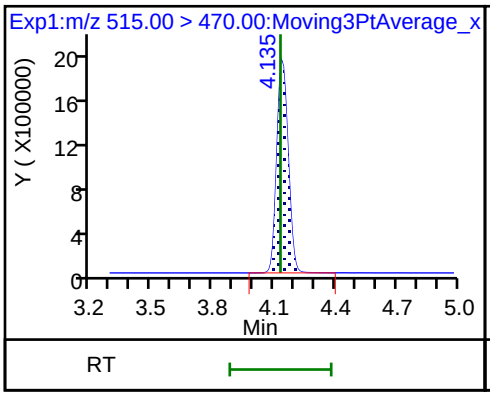


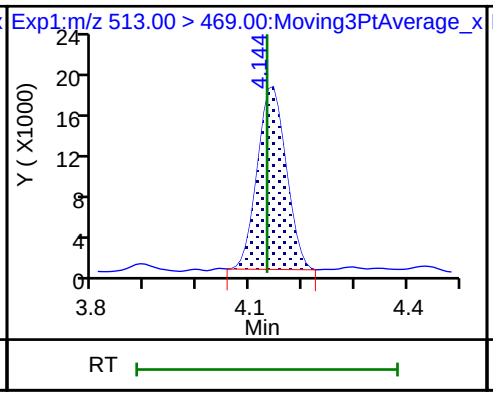
35 Perfluorononanesulfonic acid (M)



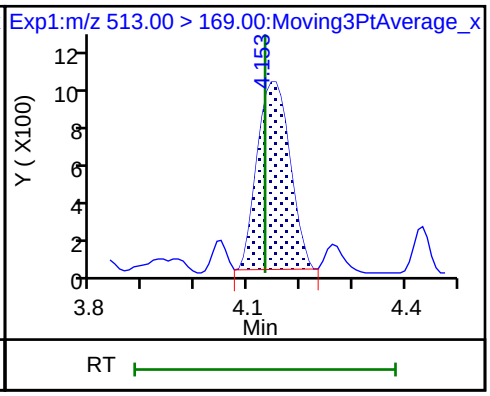
D 33 13C2 PFDA



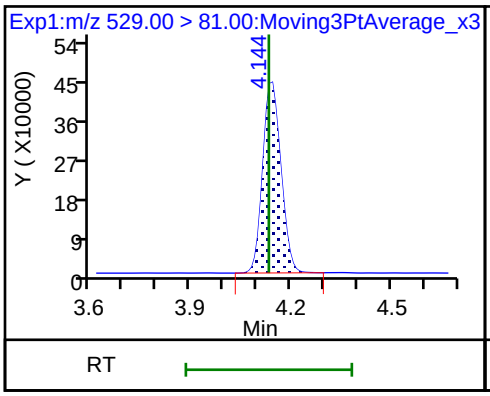
38 Perfluorodecanoic acid



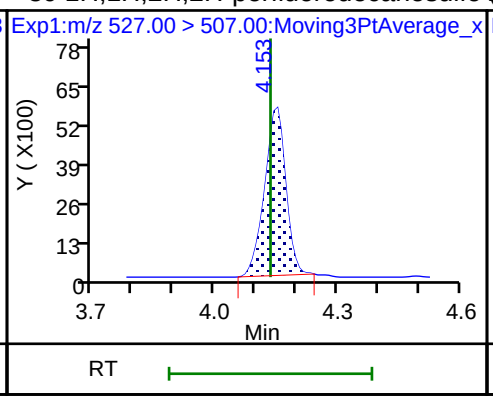
38 Perfluorodecanoic acid



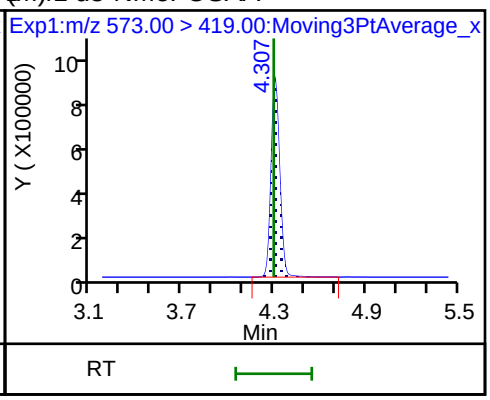
D 37 M2-8:2 FTS



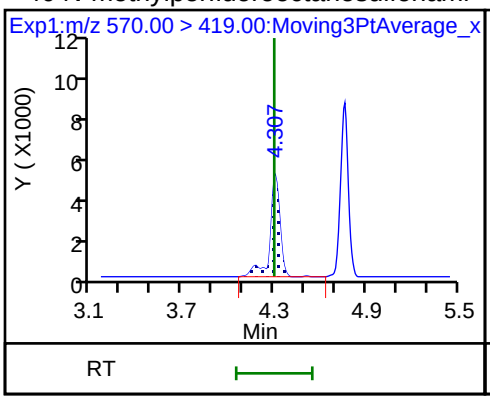
39 1H,1H,2H,2H-perfluorodecanesulfo (M)



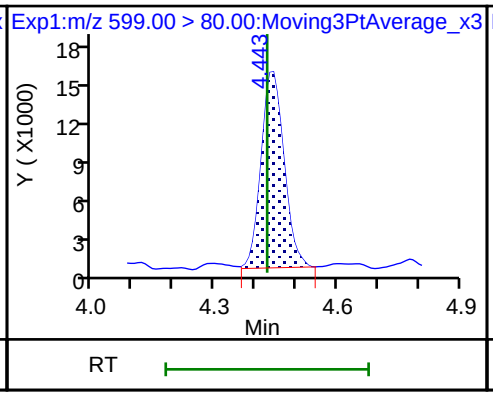
D 41 d3-NMeFOSAA



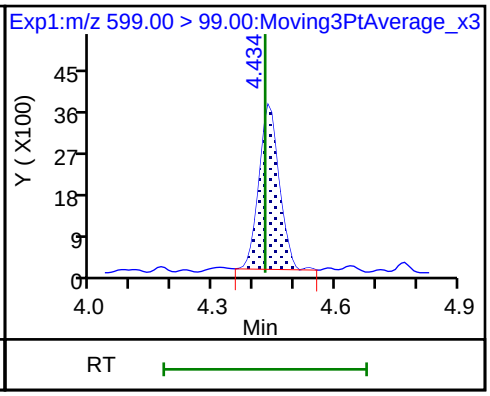
40 N-methylperfluorooctanesulfonami



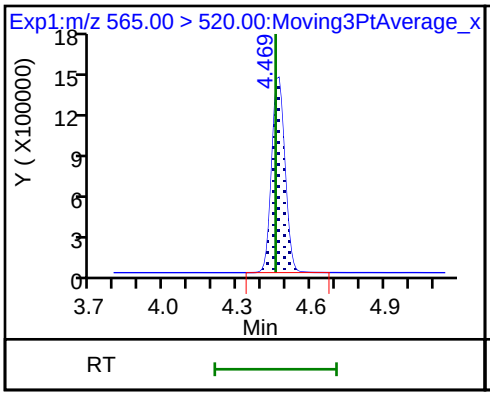
42 Perfluorodecanesulfonic acid



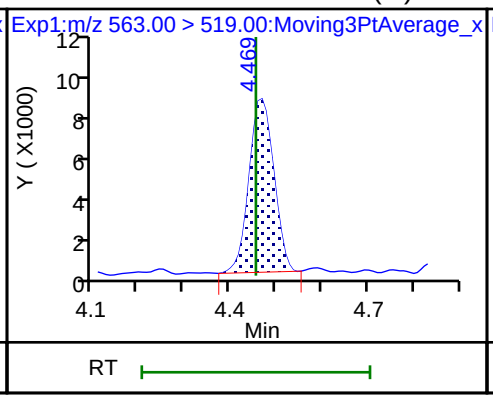
42 Perfluorodecanesulfonic acid



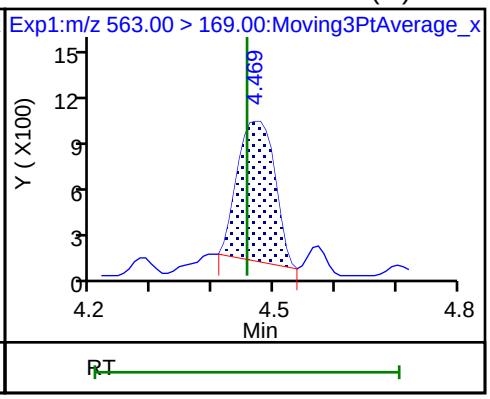
D 46 13C2 PFUnA



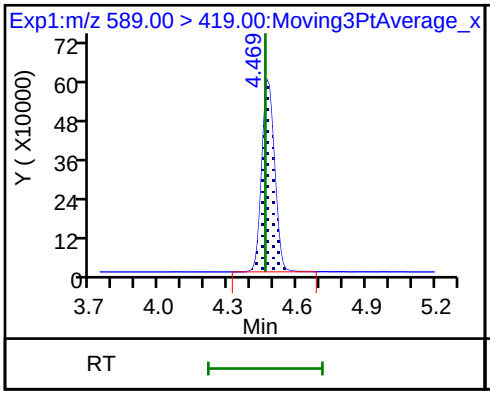
43 Perfluoroundecanoic acid (M)



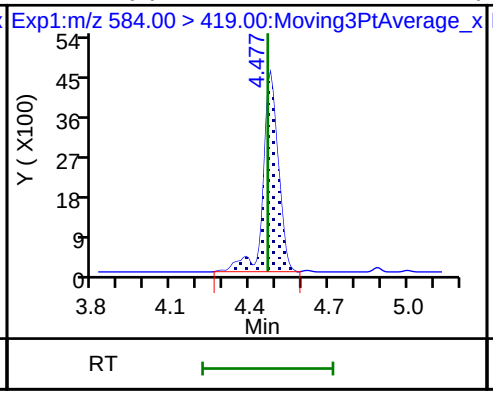
43 Perfluoroundecanoic acid (M)



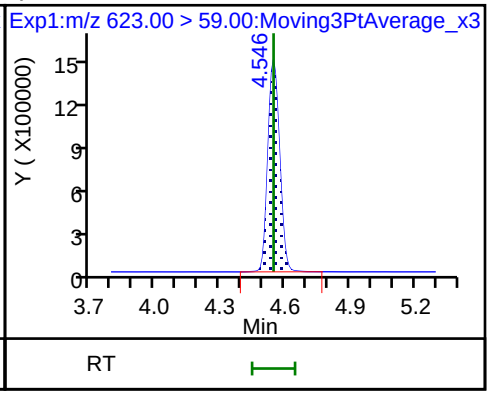
D 45 d5-NEtFOSAA



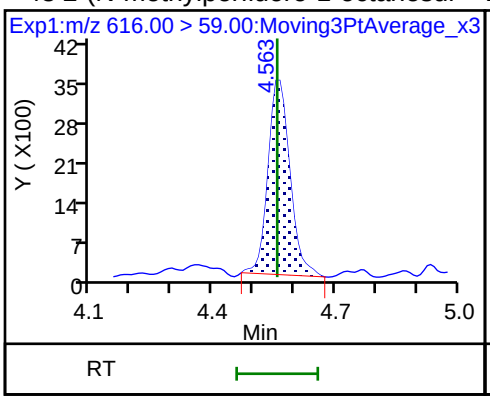
44 N-ethylperfluorooctanesulfonamid (M)



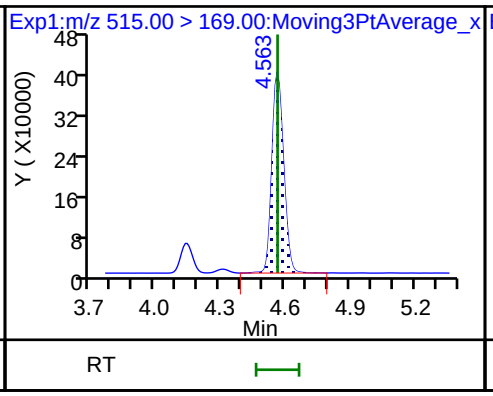
D 47 d7-N-MeFOSE-M



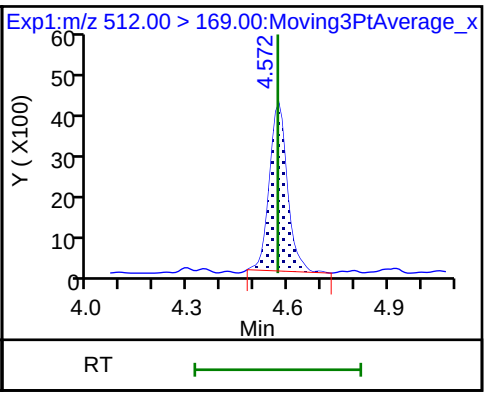
48 2-(N-methylperfluoro-1-octanesul



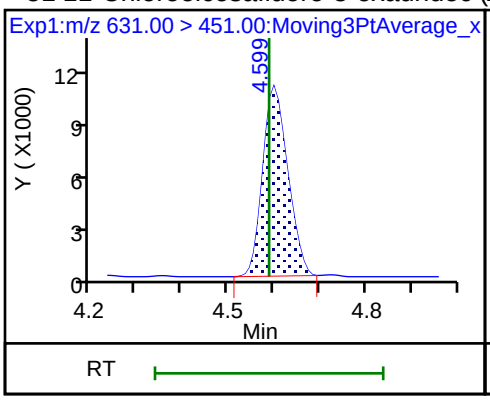
D 49 d-N-MeFOSA-M



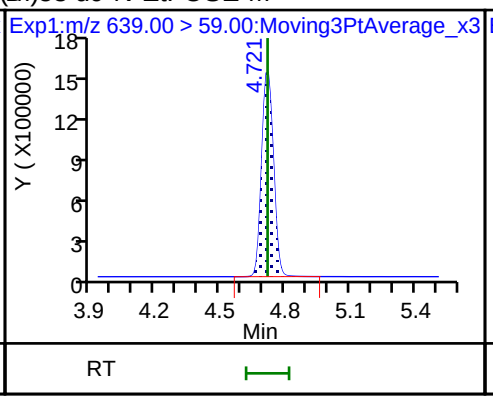
50 NMeFOSA



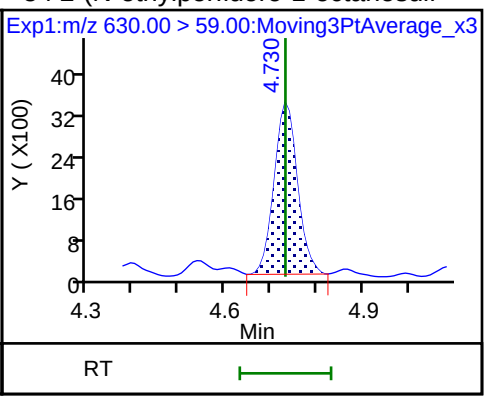
51 11-Chloroeicosafluoro-3-oxaundec (M)



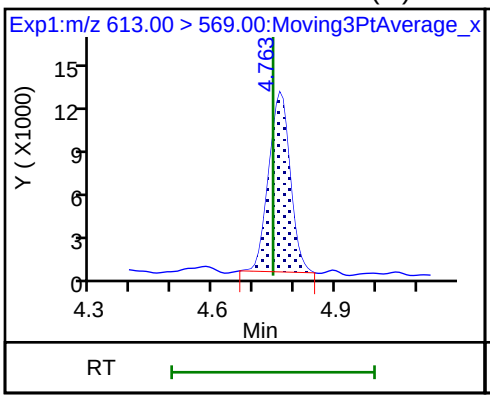
D 53 d9-N-EtFOSE-M



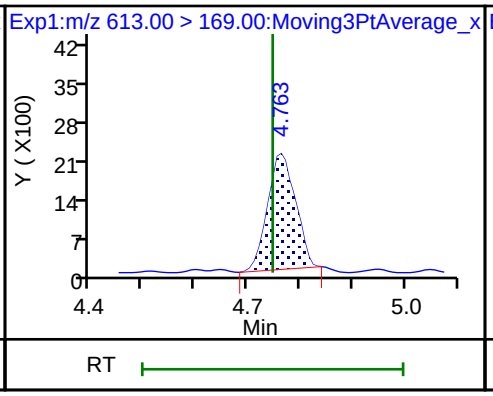
54 2-(N-ethylperfluoro-1-octanesulf



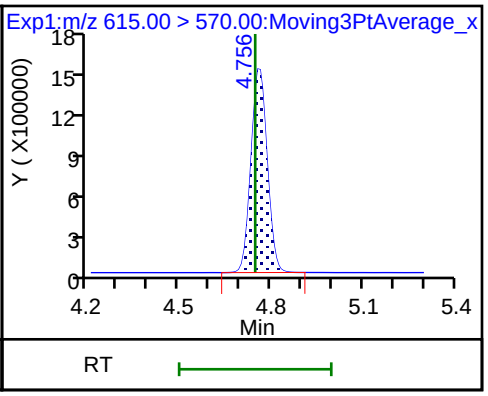
52 Perfluorododecanoic acid (M)



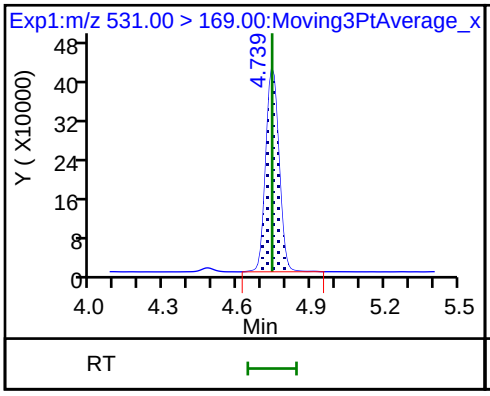
52 Perfluorododecanoic acid



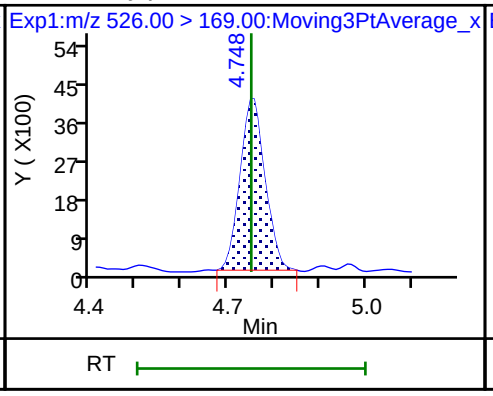
D 56 13C2 PFDoA



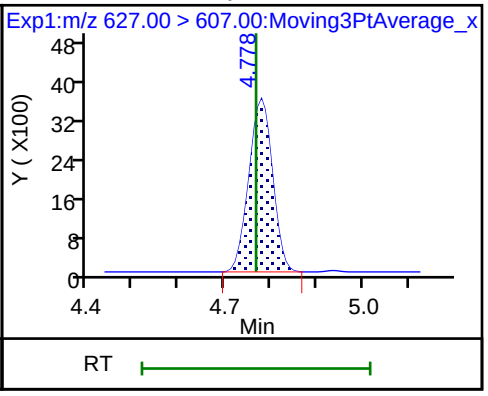
D 58 d-N-EtFOSA-M



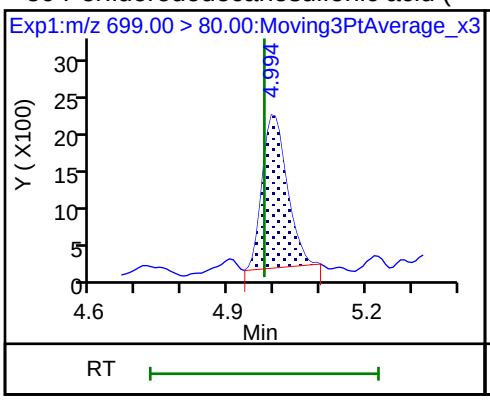
57 N-ethylperfluoro-1-octanesulfona



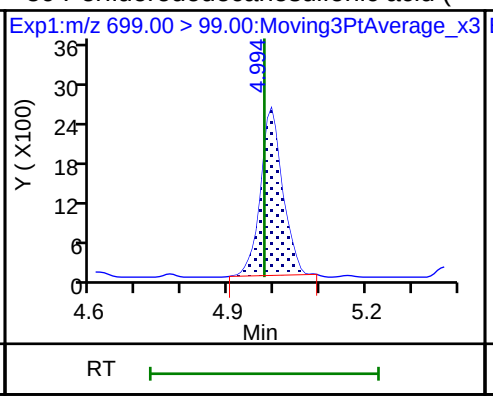
55 1H,1H,2H,2H-perfluorododecanesul



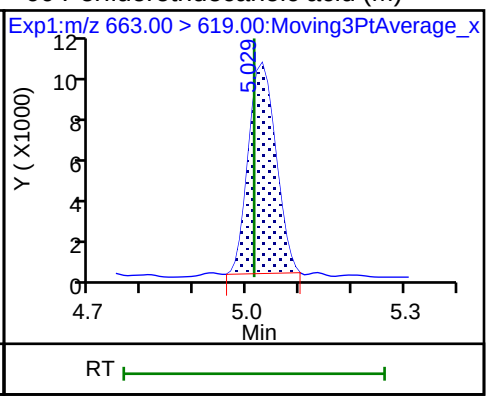
59 Perfluorododecanesulfonic acid (



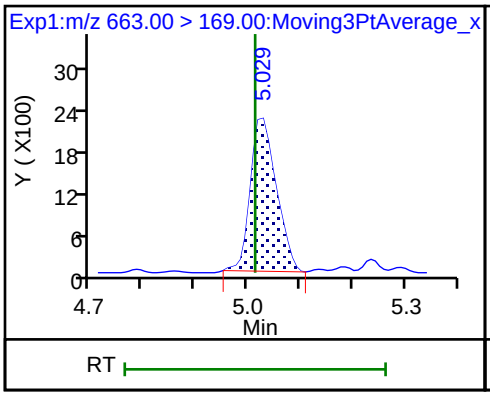
59 Perfluorododecanesulfonic acid (



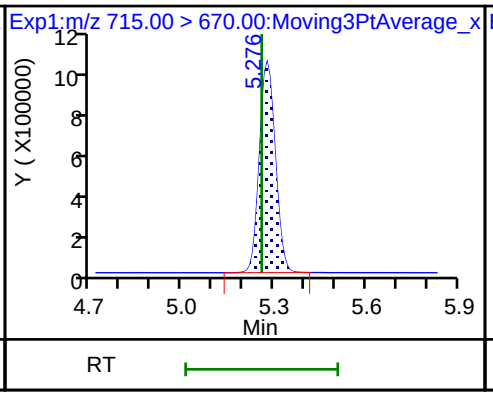
60 Perfluorotridecanoic acid (M)



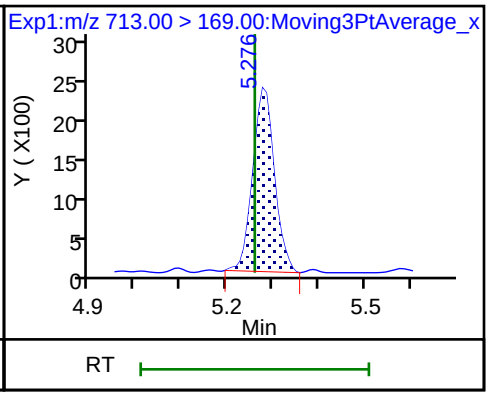
60 Perfluorotridecanoic acid



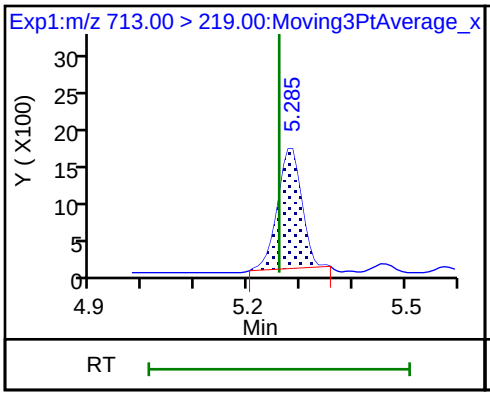
D 62 13C2 PFTeDA



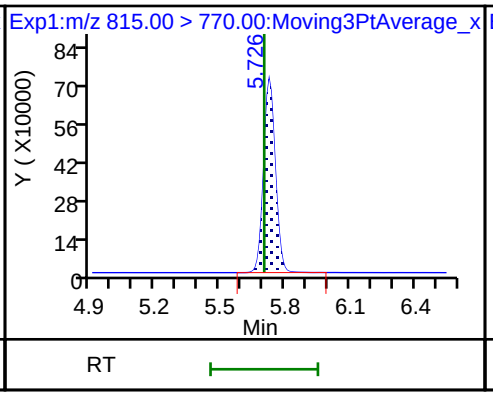
61 Perfluorotetradecanoic acid



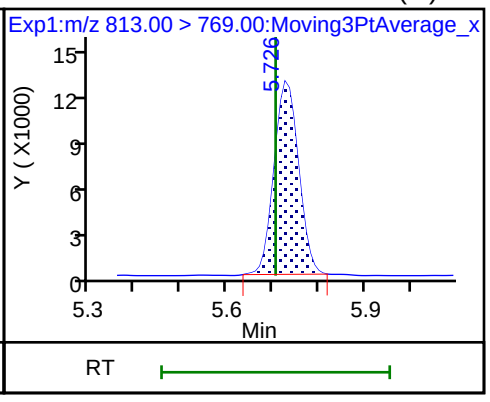
61 Perfluorotetradecanoic acid



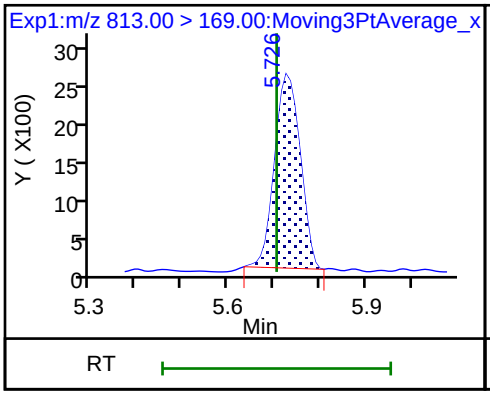
D 63 13C2 PFHxDA



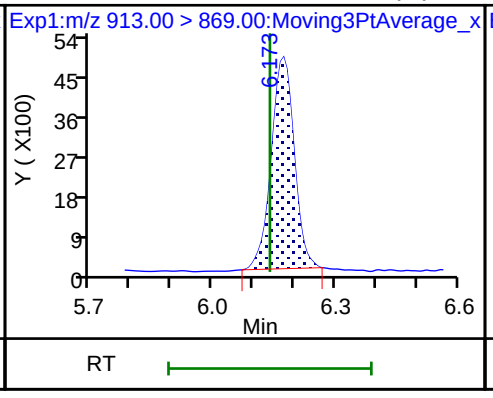
64 Perfluorohexadecanoic acid (M)



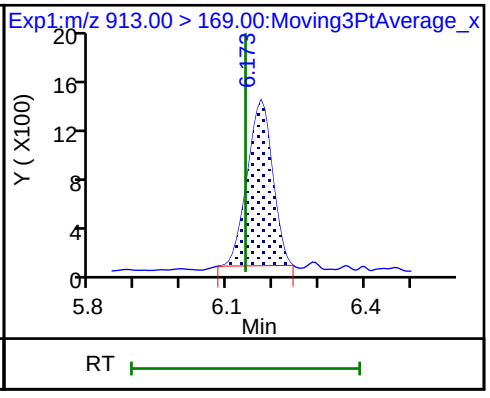
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (M)



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

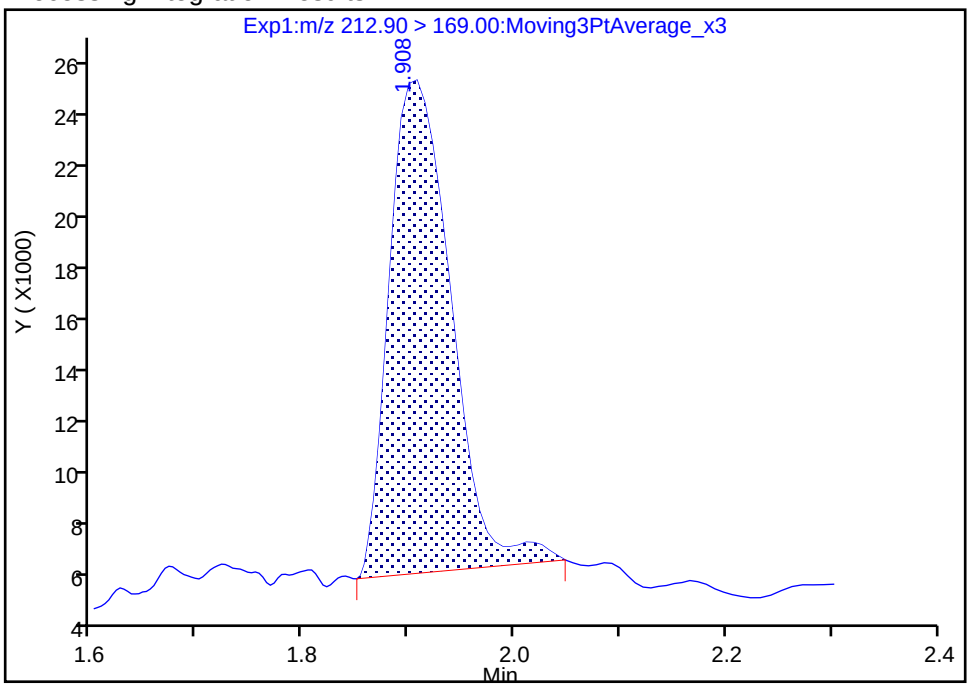
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

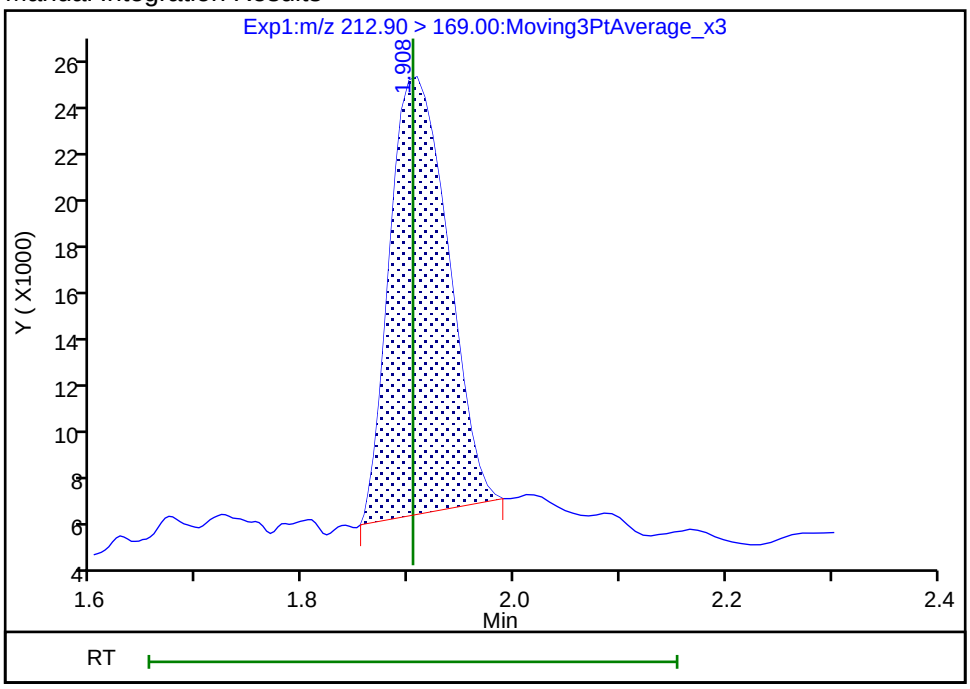
Processing Integration Results

RT: 1.91
Area: 74605
Amount: 0.025220
Amount Units: ng/ml



Manual Integration Results

RT: 1.91
Area: 69313
Amount: 0.022852
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:44:38
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

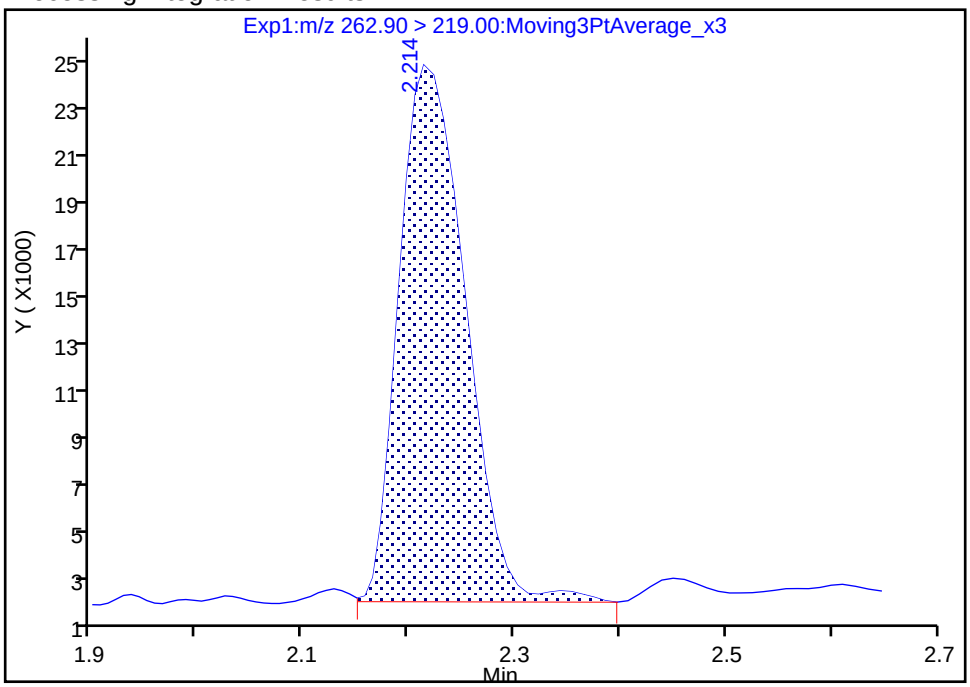
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

3 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

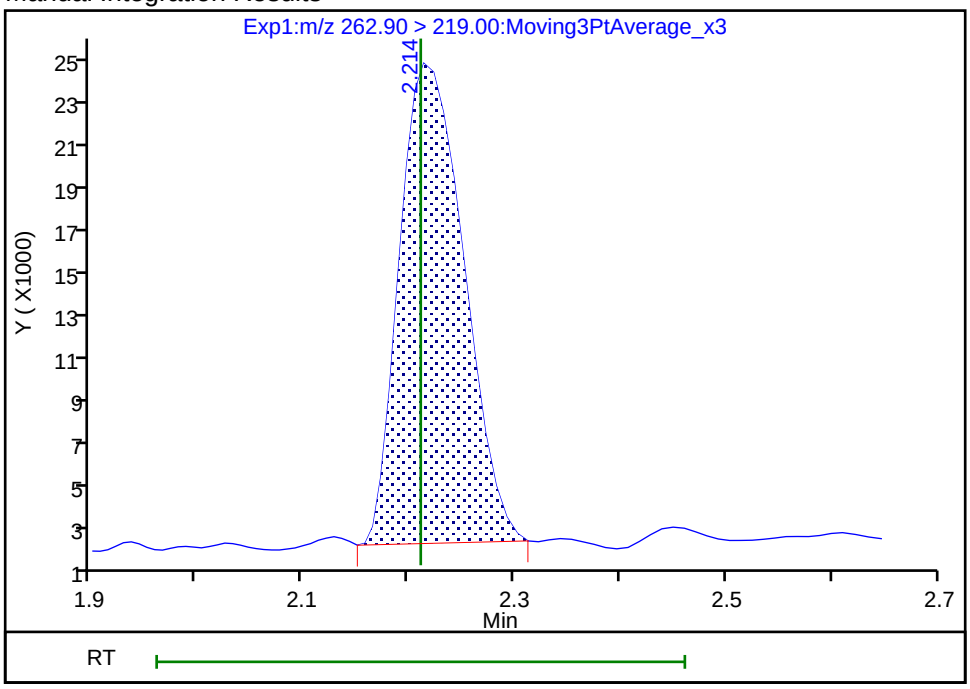
Processing Integration Results

RT: 2.21
Area: 93918
Amount: 0.025605
Amount Units: ng/ml



Manual Integration Results

RT: 2.21
Area: 90133
Amount: 0.030061
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:45:09
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

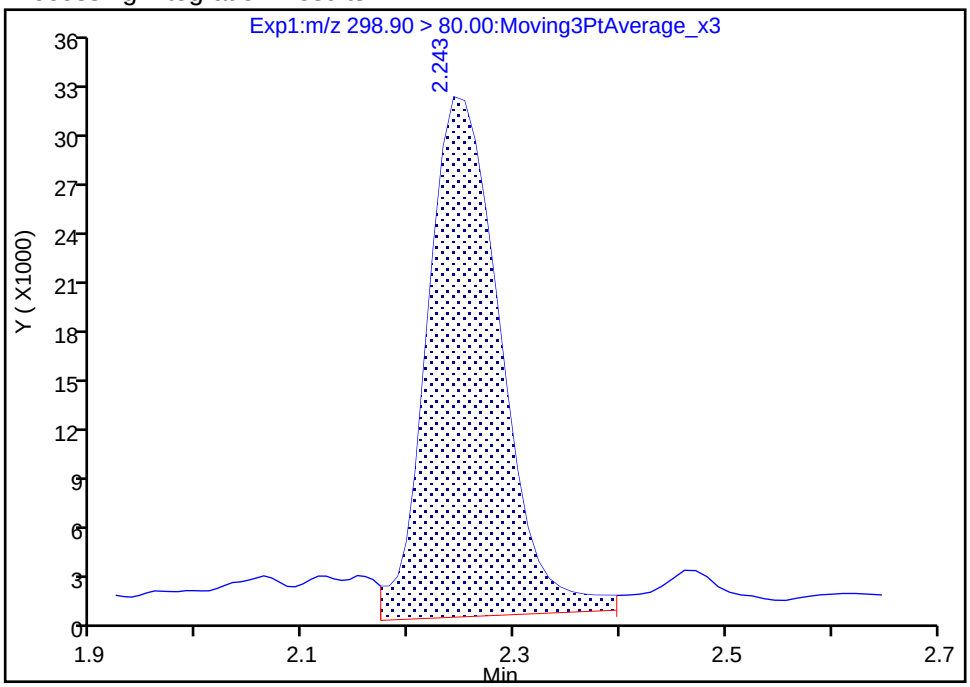
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

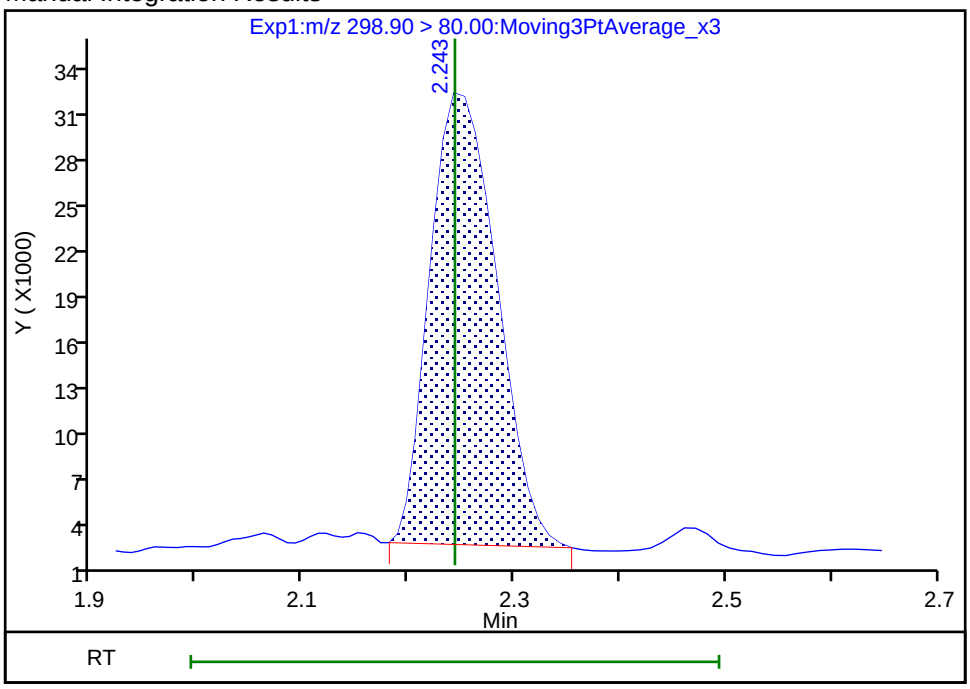
Processing Integration Results

RT: 2.24
Area: 150456
Amount: 0.022864
Amount Units: ng/ml



Manual Integration Results

RT: 2.24
Area: 130179
Amount: 0.022051
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:45:32
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

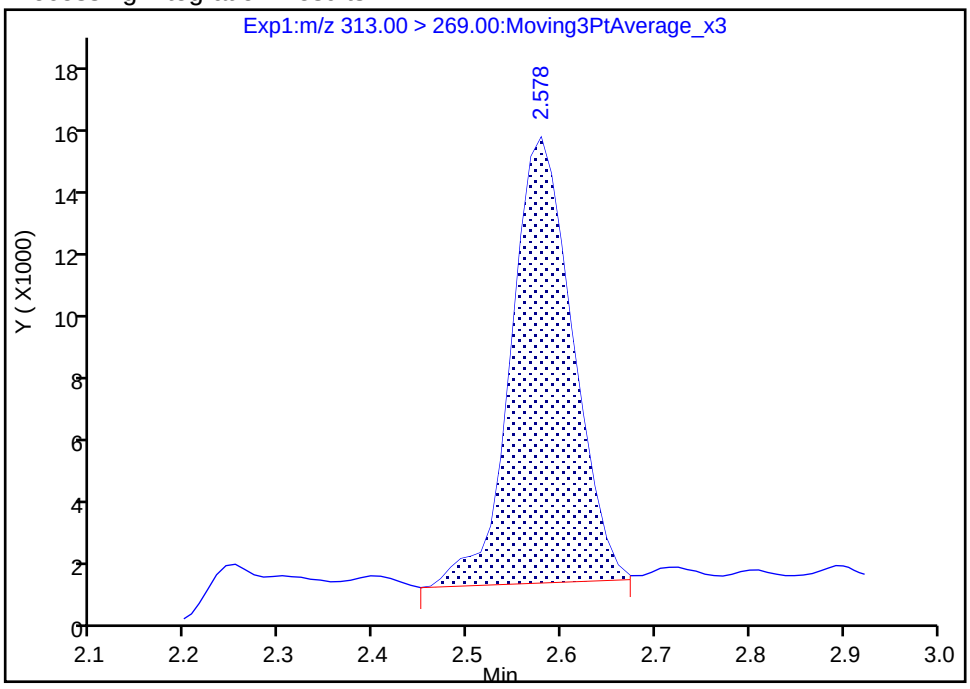
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

11 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

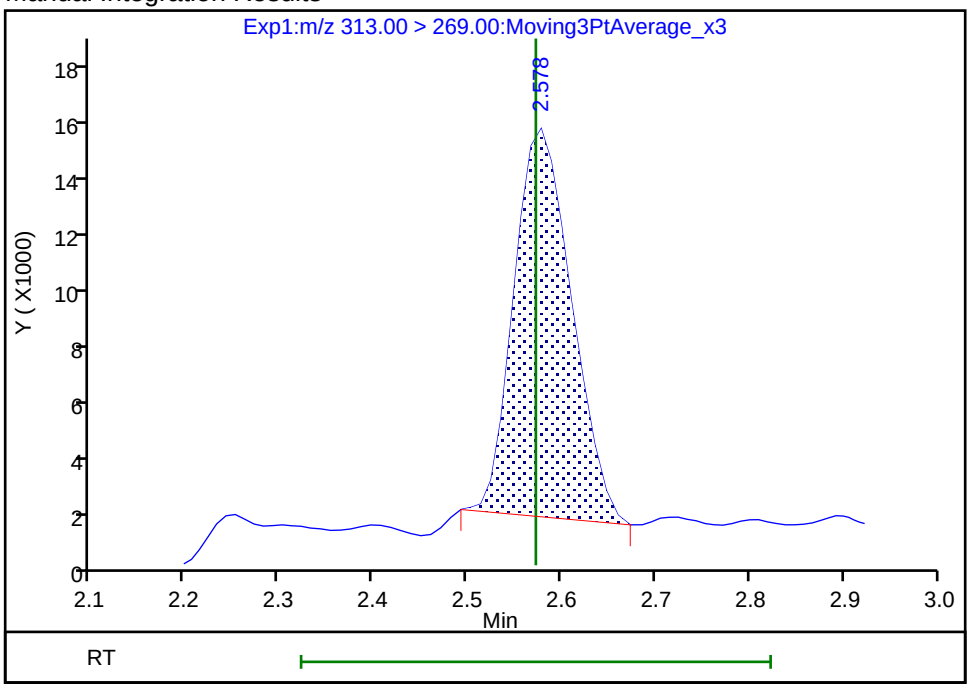
Processing Integration Results

RT: 2.58
Area: 63990
Amount: 0.024903
Amount Units: ng/ml



Manual Integration Results

RT: 2.58
Area: 57793
Amount: 0.024570
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:46:22
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

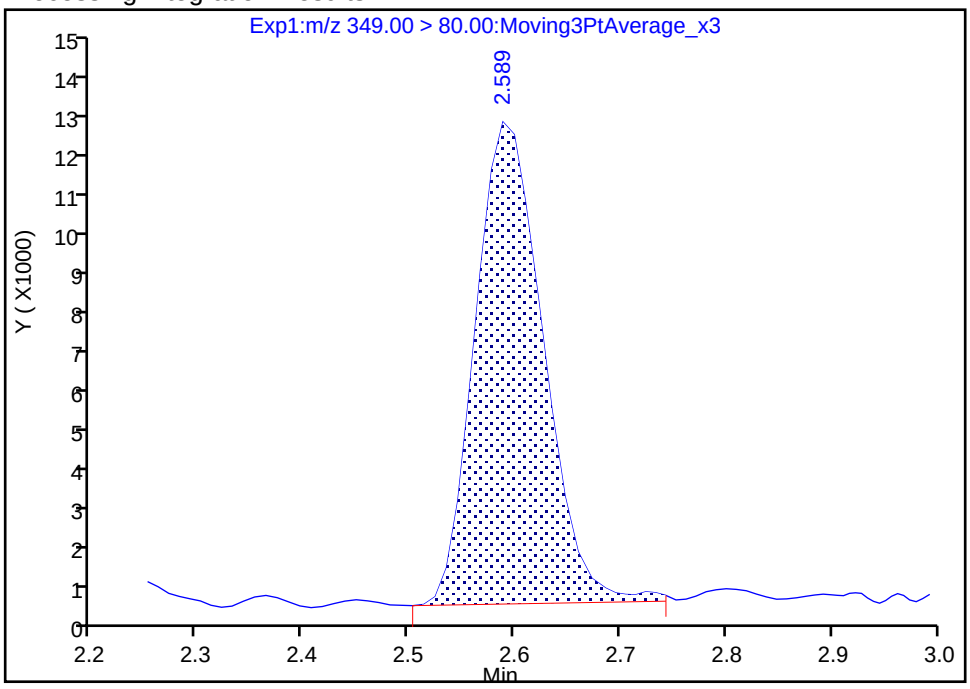
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

12 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

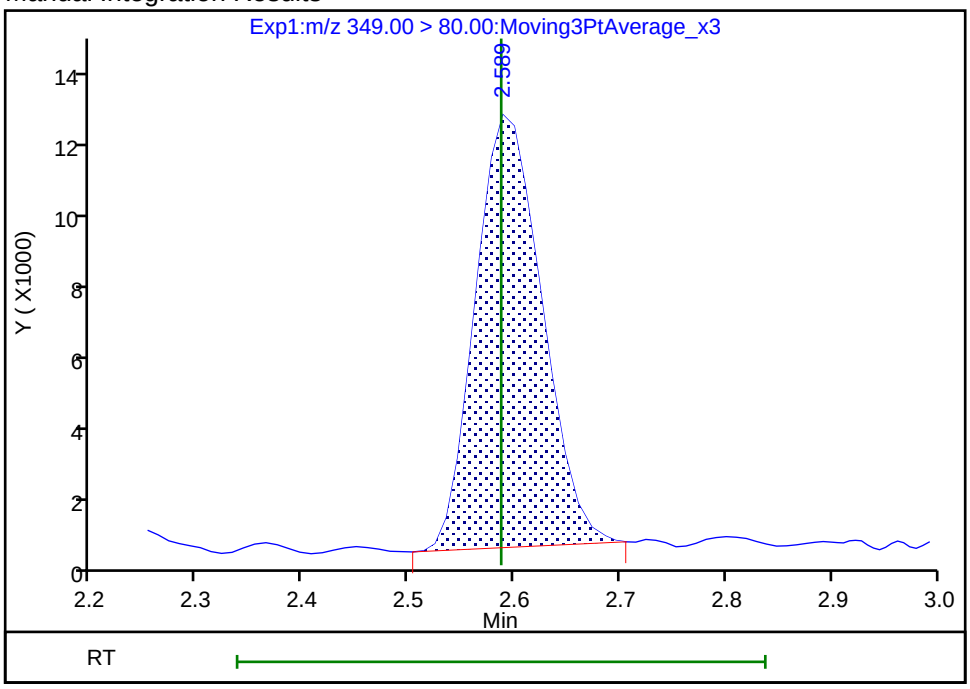
Processing Integration Results

RT: 2.59
Area: 52482
Amount: 0.023359
Amount Units: ng/ml



Manual Integration Results

RT: 2.59
Area: 50944
Amount: 0.021439
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:46:45
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

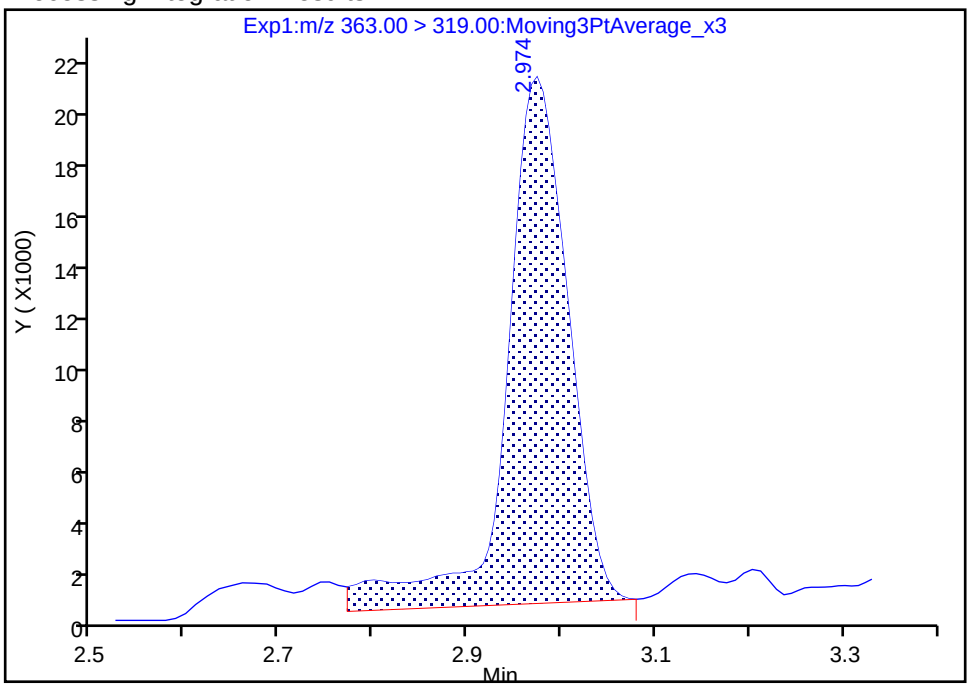
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

18 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

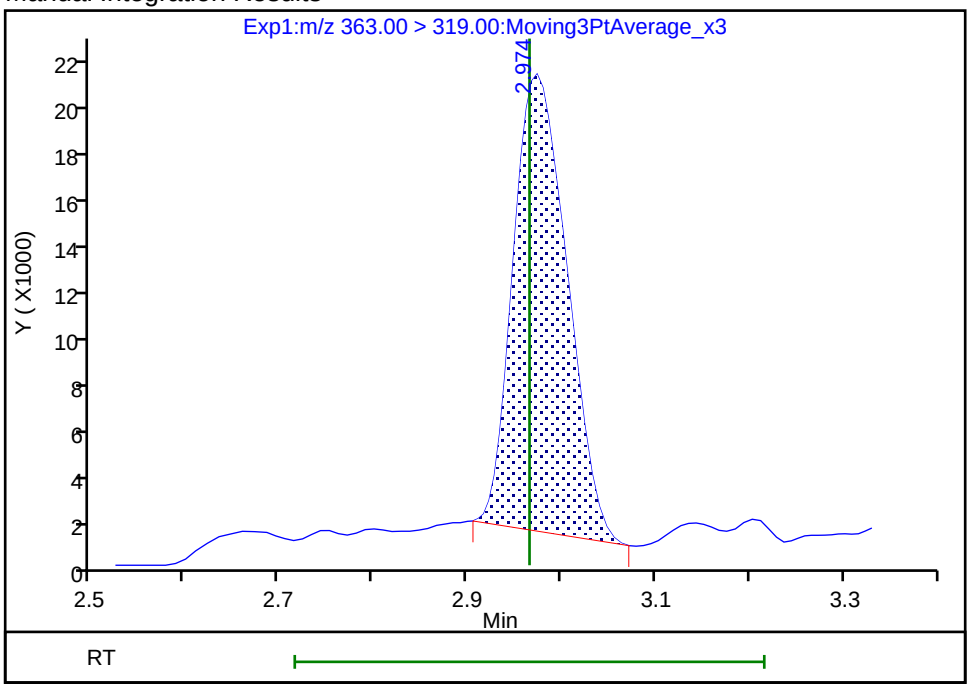
Processing Integration Results

RT: 2.97
Area: 93187
Amount: 0.026344
Amount Units: ng/ml



Manual Integration Results

RT: 2.97
Area: 77317
Amount: 0.025218
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:47:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

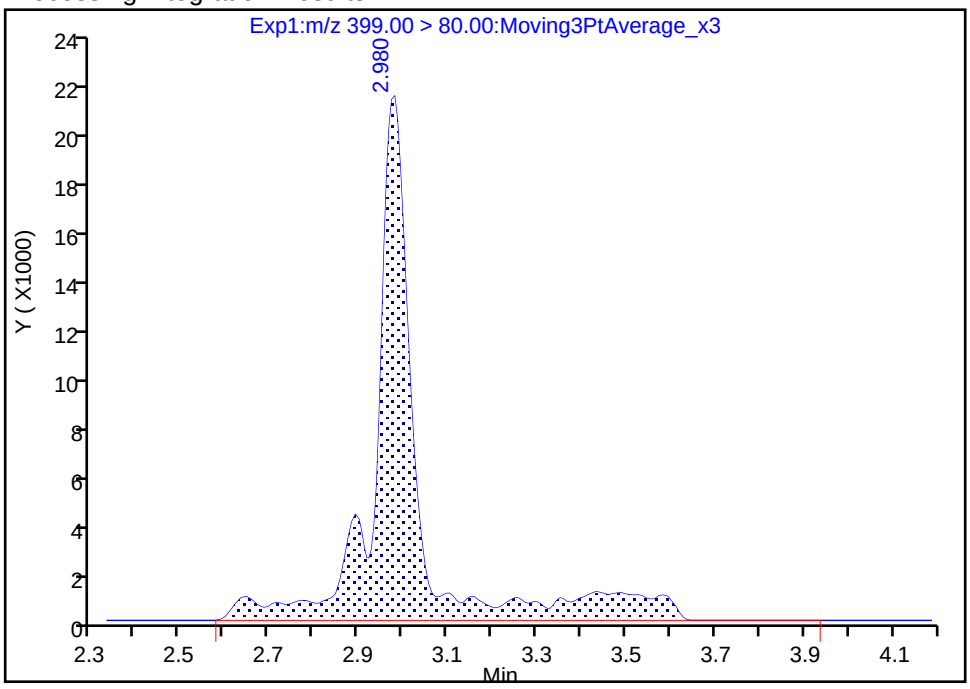
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

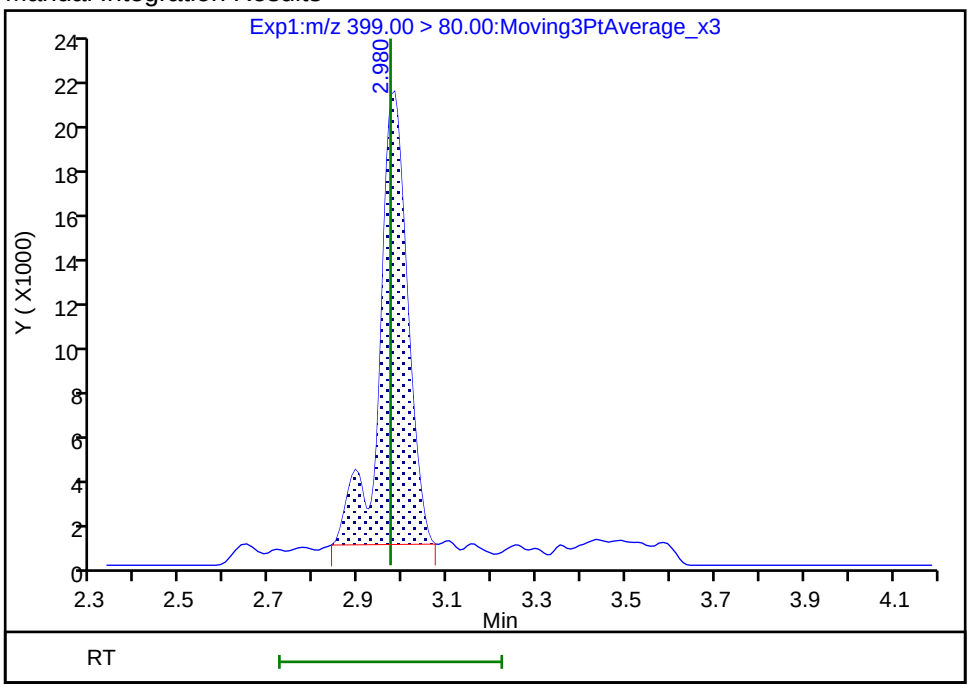
Processing Integration Results

RT: 2.98
Area: 136639
Amount: 0.025975
Amount Units: ng/ml



Manual Integration Results

RT: 2.98
Area: 86565
Amount: 0.025976
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:48:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

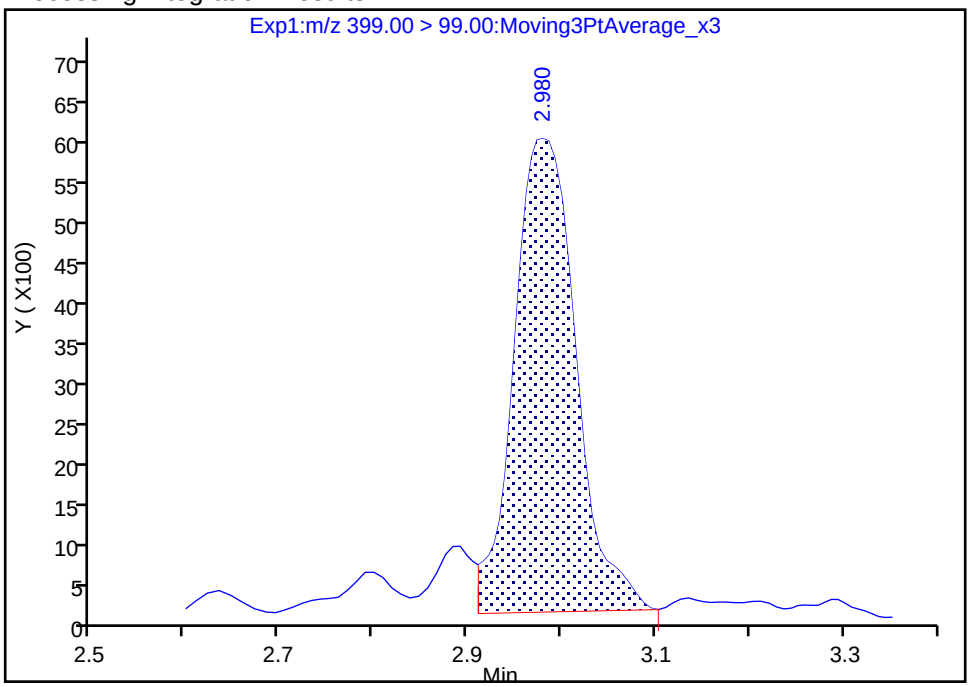
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

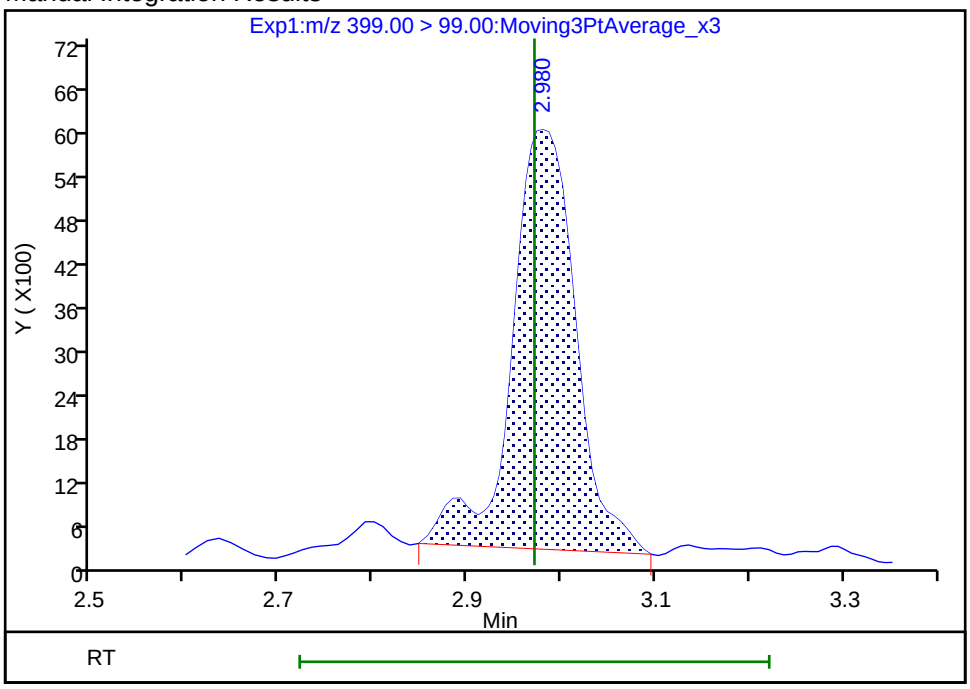
Processing Integration Results

RT: 2.98
Area: 27126
Amount: 0.025975
Amount Units: ng/ml



Manual Integration Results

RT: 2.98
Area: 27606
Amount: 0.025976
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:48:49
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

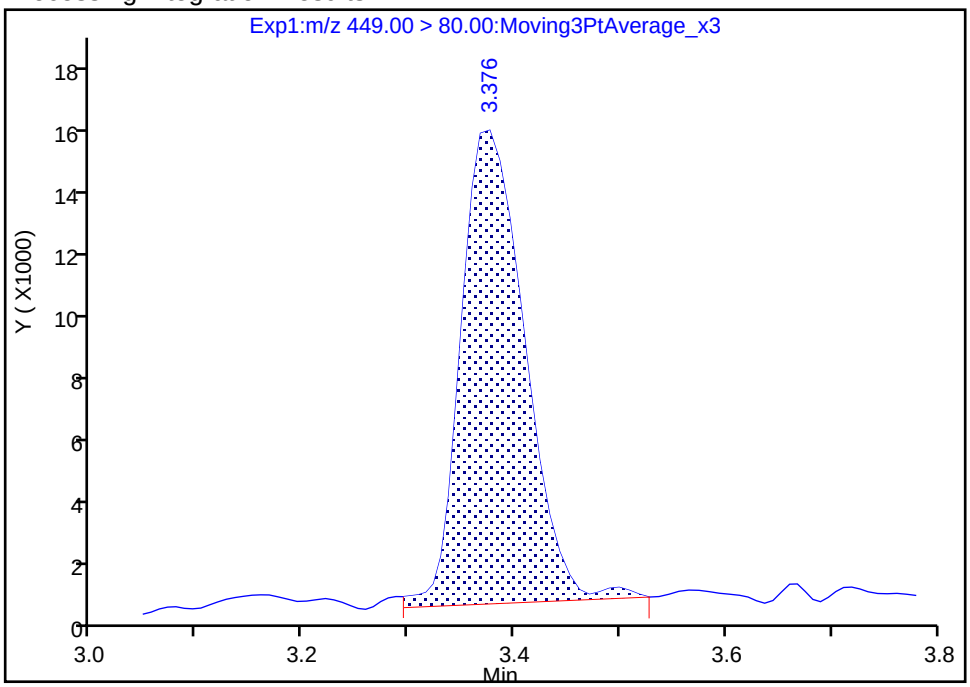
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

23 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

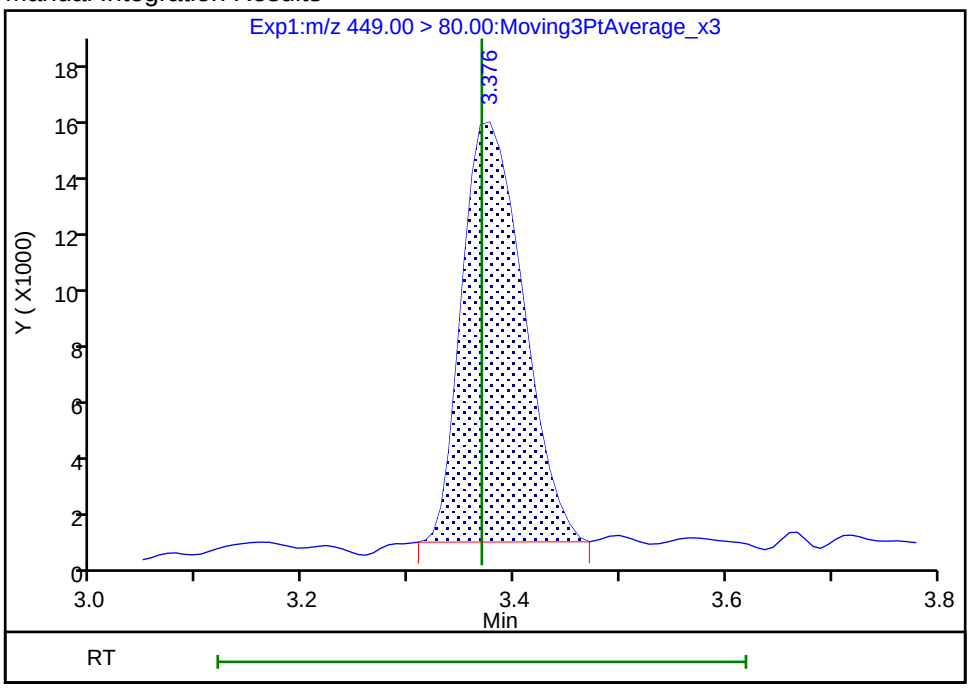
Processing Integration Results

RT: 3.38
Area: 63650
Amount: 0.024087
Amount Units: ng/ml



Manual Integration Results

RT: 3.38
Area: 59882
Amount: 0.022144
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:49:39
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

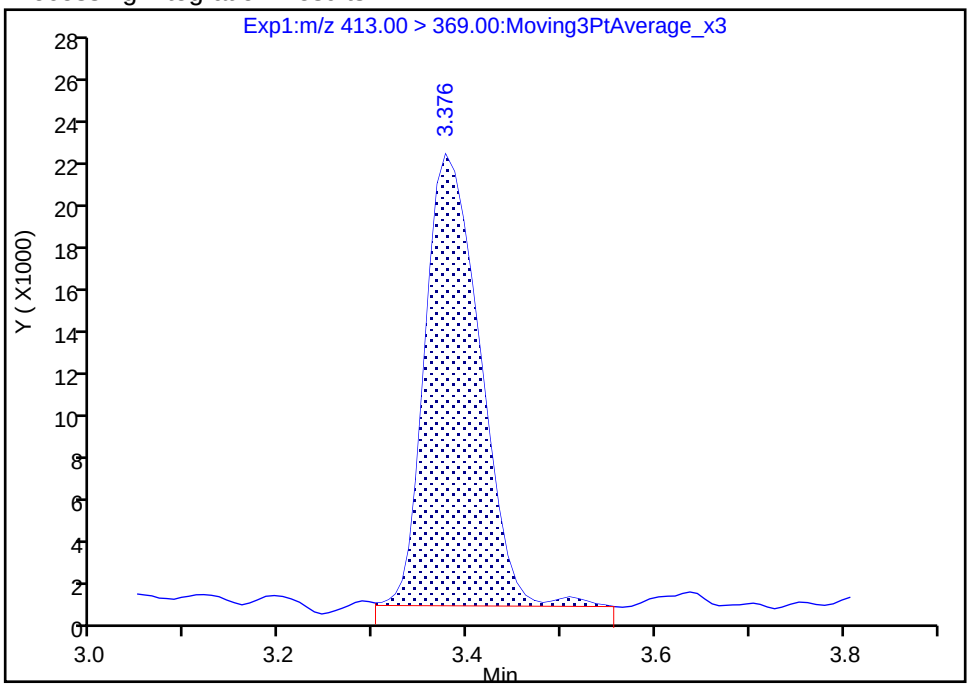
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

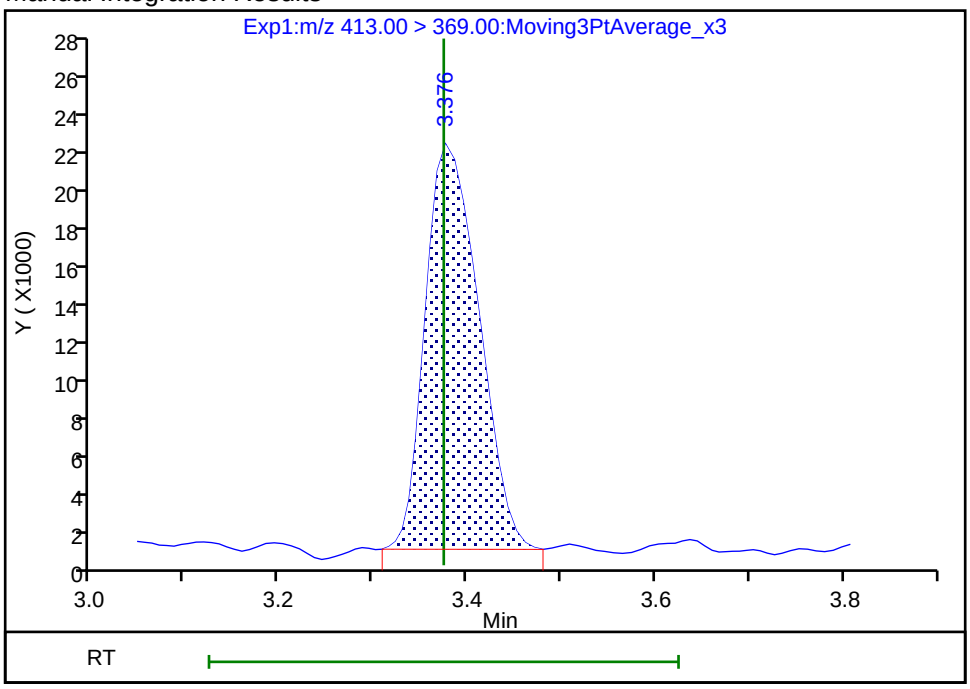
Processing Integration Results

RT: 3.38
Area: 87190
Amount: 0.026599
Amount Units: ng/ml



Manual Integration Results

RT: 3.38
Area: 84521
Amount: 0.030341
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:50:14
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

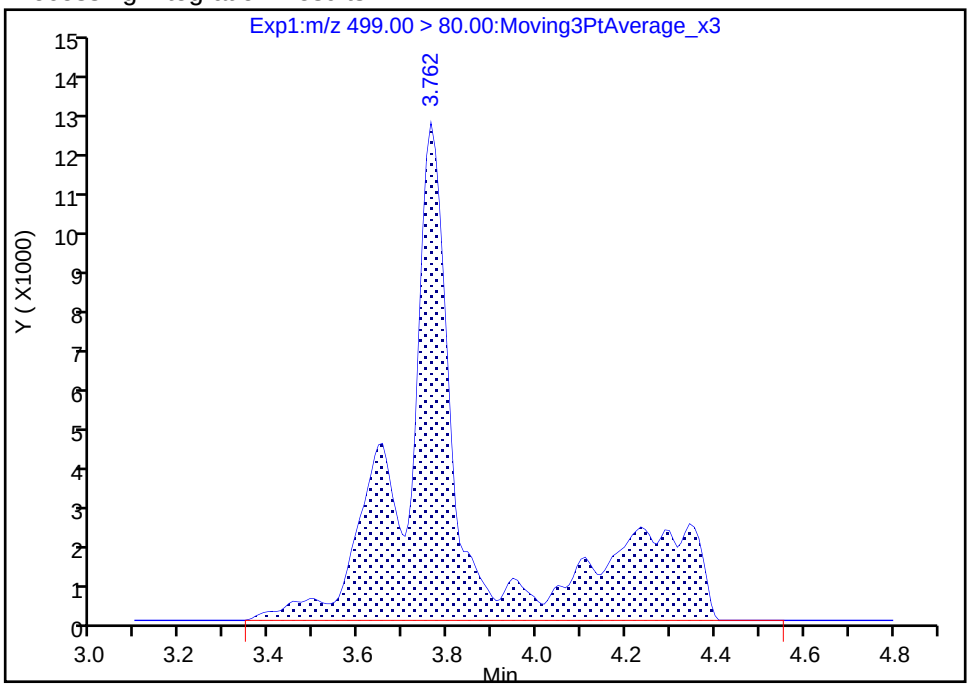
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

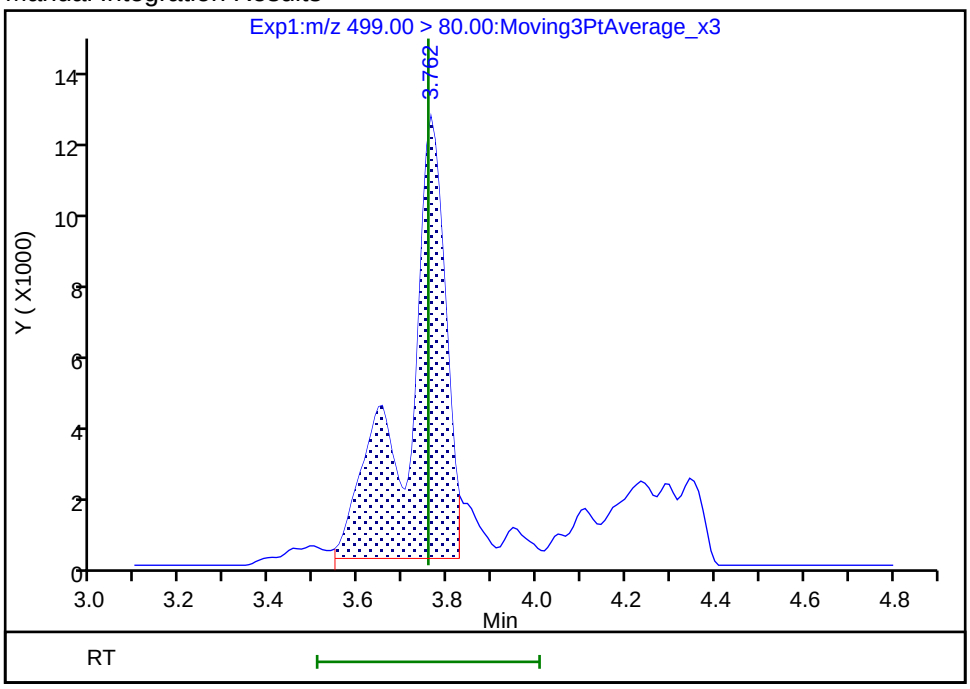
RT: 3.76
Area: 126589
Amount: 0.025772
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 73172
Amount: 0.024060
Amount Units: ng/ml

Manual Integration Results



Reviewer: zibaa, 10-Sep-2020 10:51:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

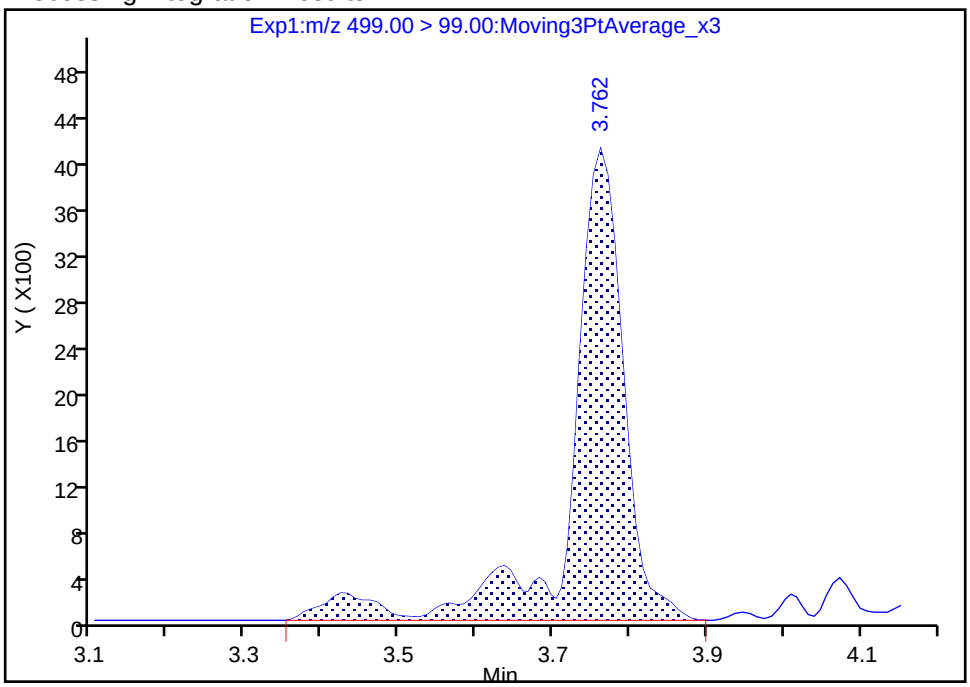
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

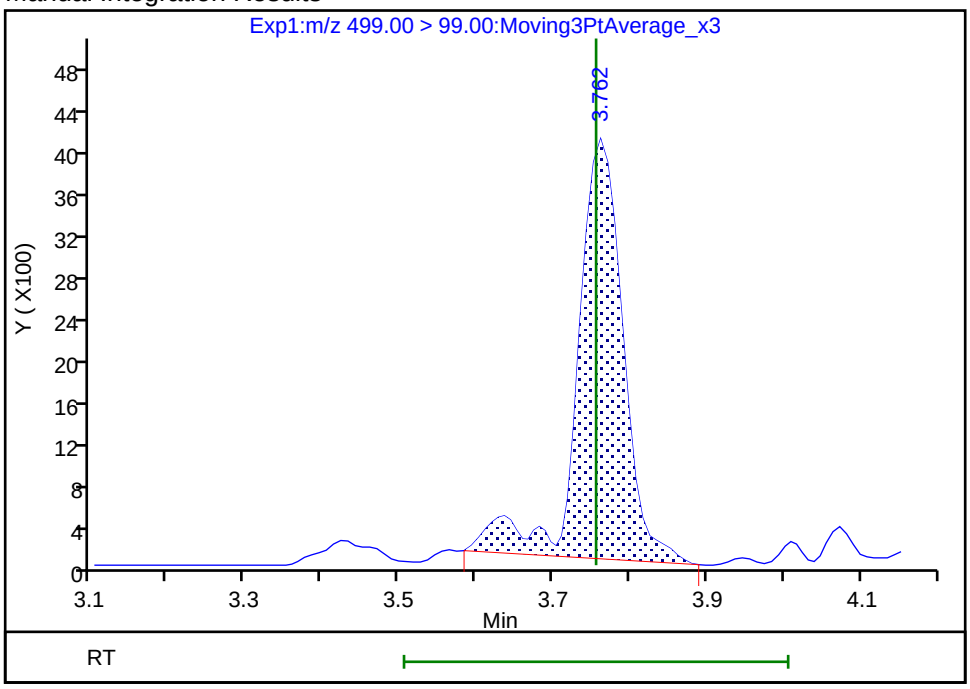
Processing Integration Results

RT: 3.76
Area: 19515
Amount: 0.025772
Amount Units: ng/ml



Manual Integration Results

RT: 3.76
Area: 16625
Amount: 0.024060
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:51:56
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

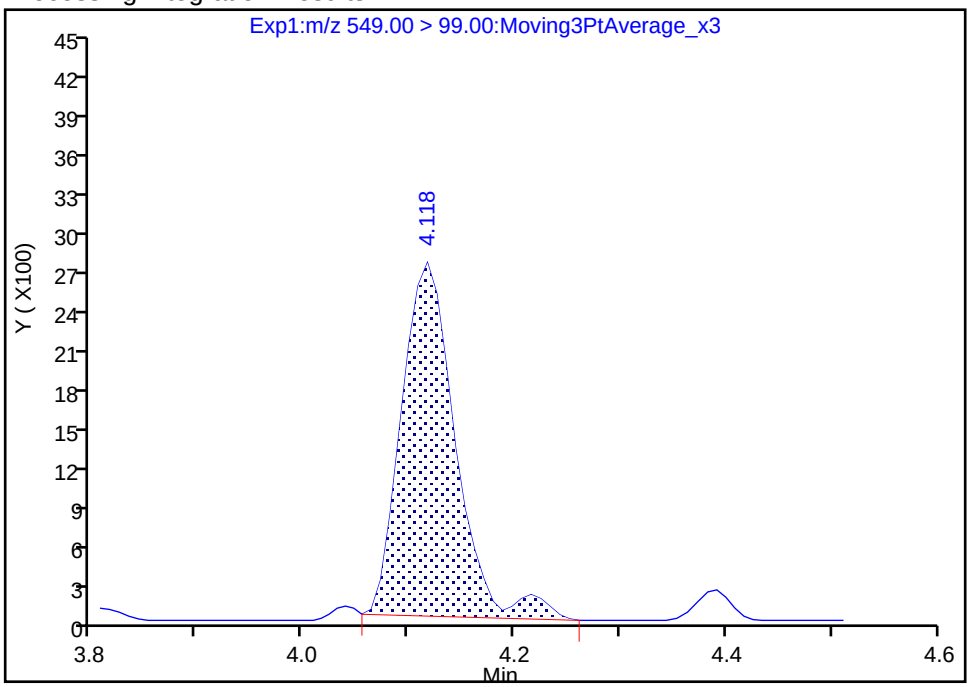
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

35 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

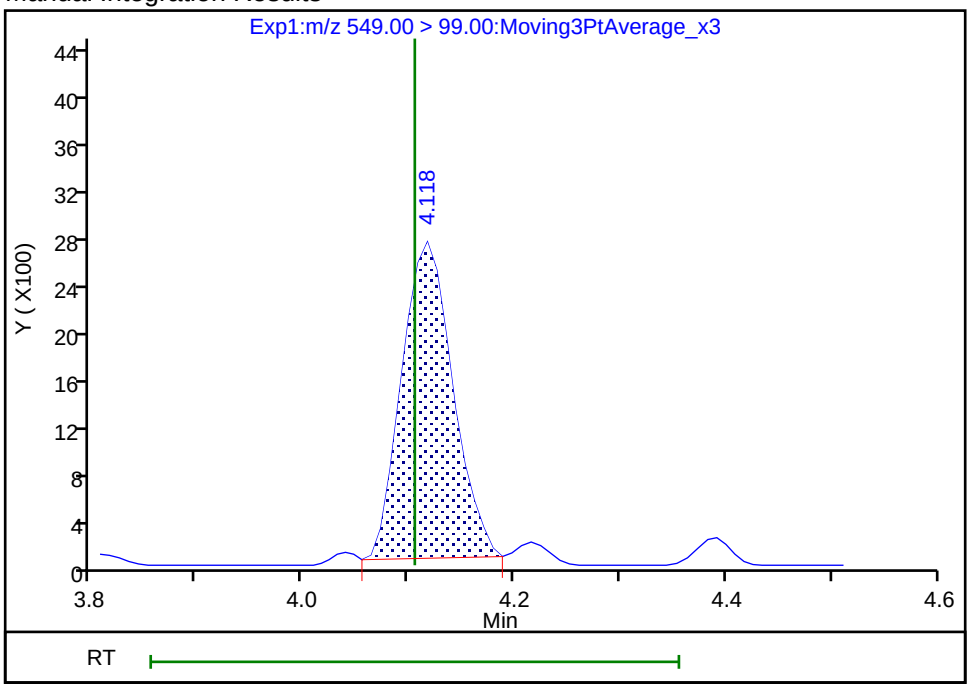
Processing Integration Results

RT: 4.12
Area: 9669
Amount: 0.023488
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 9023
Amount: 0.022695
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:53:07
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

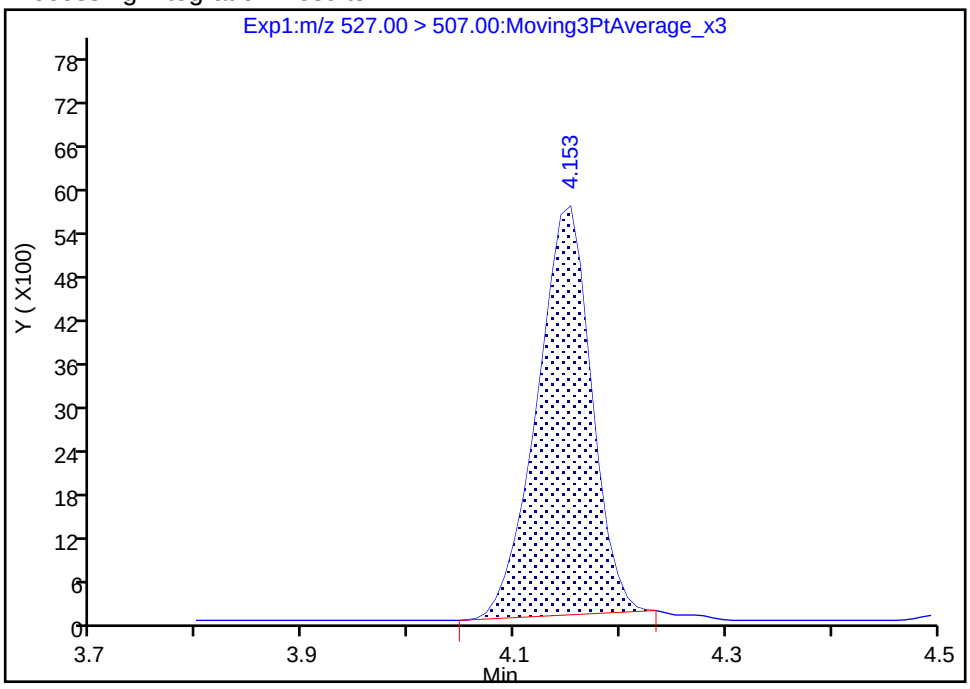
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

39 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

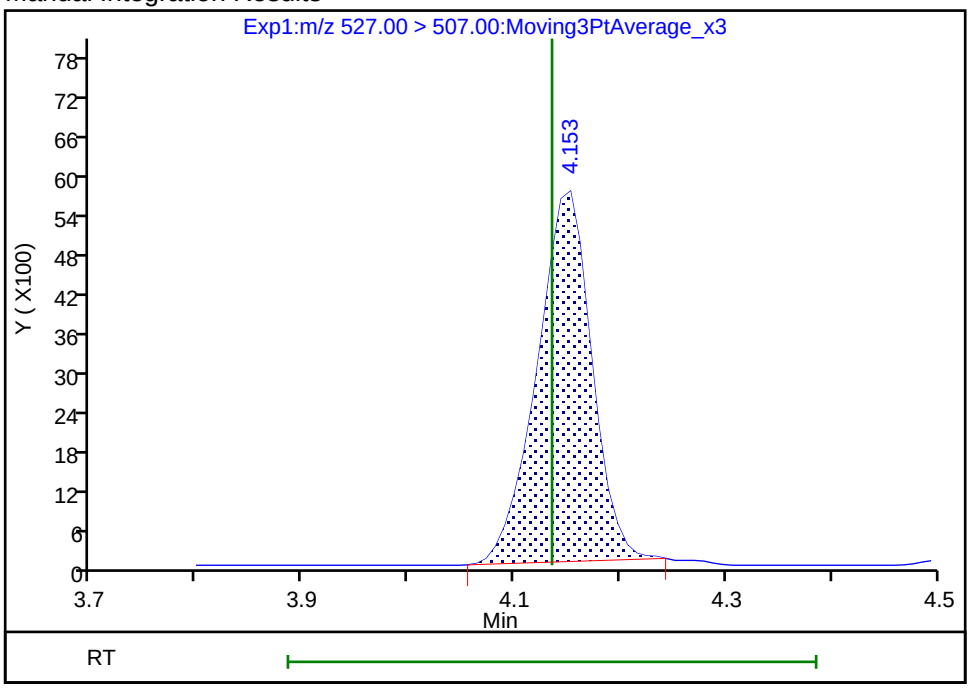
Processing Integration Results

RT: 4.15
Area: 20068
Amount: 0.022175
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 20267
Amount: 0.022486
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:53:38
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

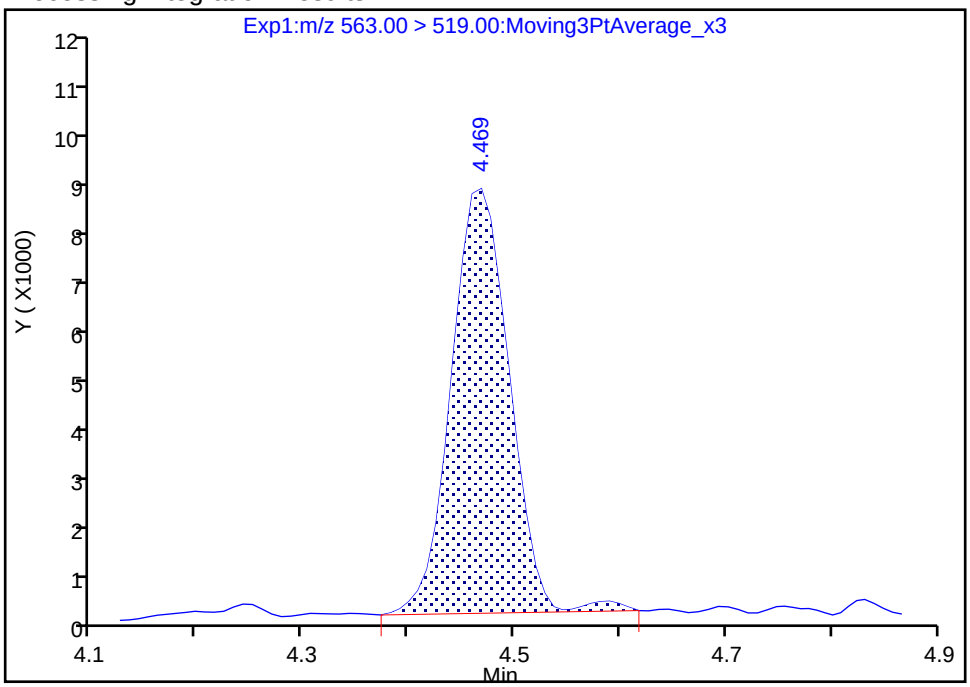
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

43 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

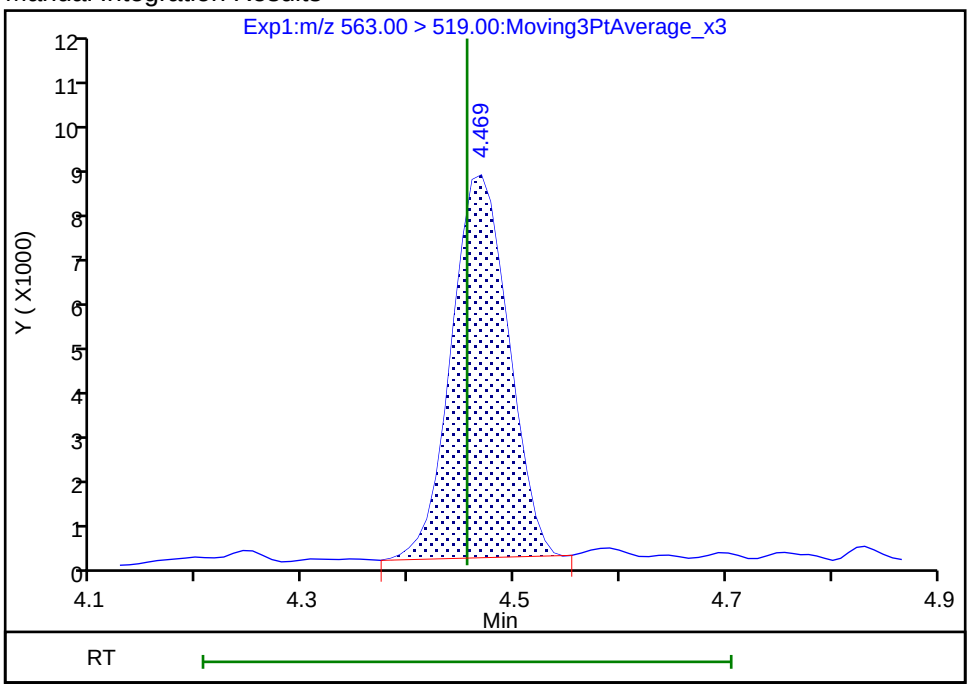
Processing Integration Results

RT: 4.47
Area: 33415
Amount: 0.024180
Amount Units: ng/ml



Manual Integration Results

RT: 4.47
Area: 32671
Amount: 0.022564
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:54:10
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

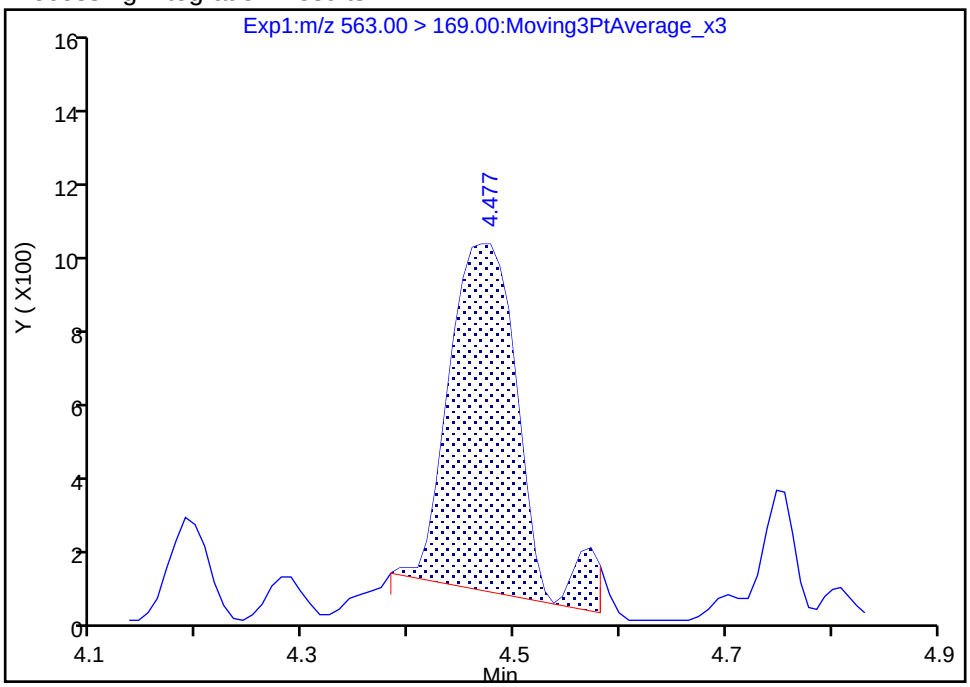
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

43 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

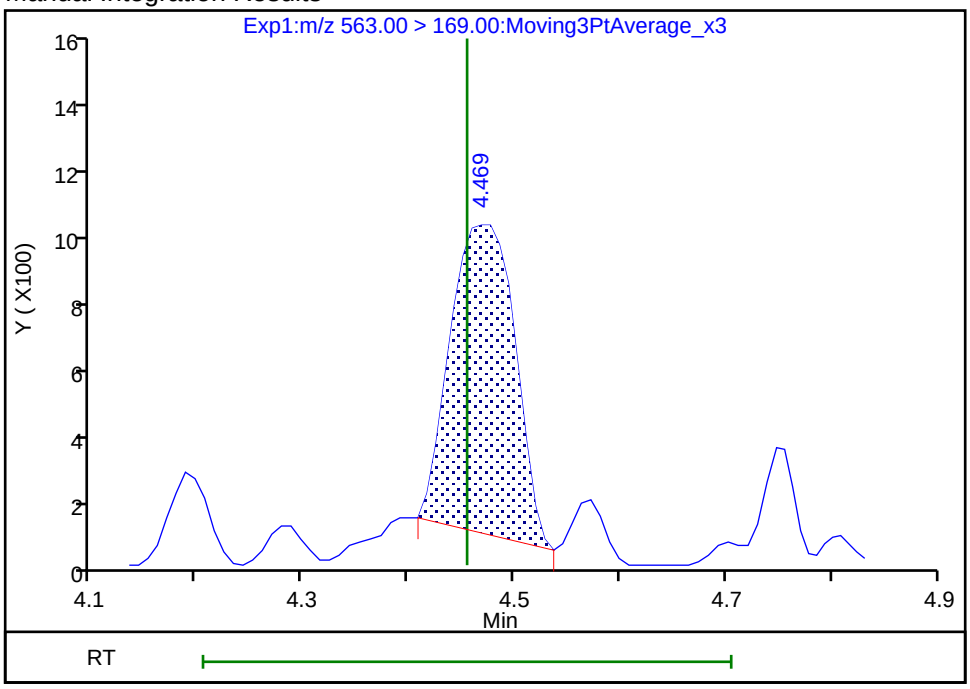
Processing Integration Results

RT: 4.48
Area: 4245
Amount: 0.024180
Amount Units: ng/ml



Manual Integration Results

RT: 4.47
Area: 3844
Amount: 0.022564
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:54:21
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

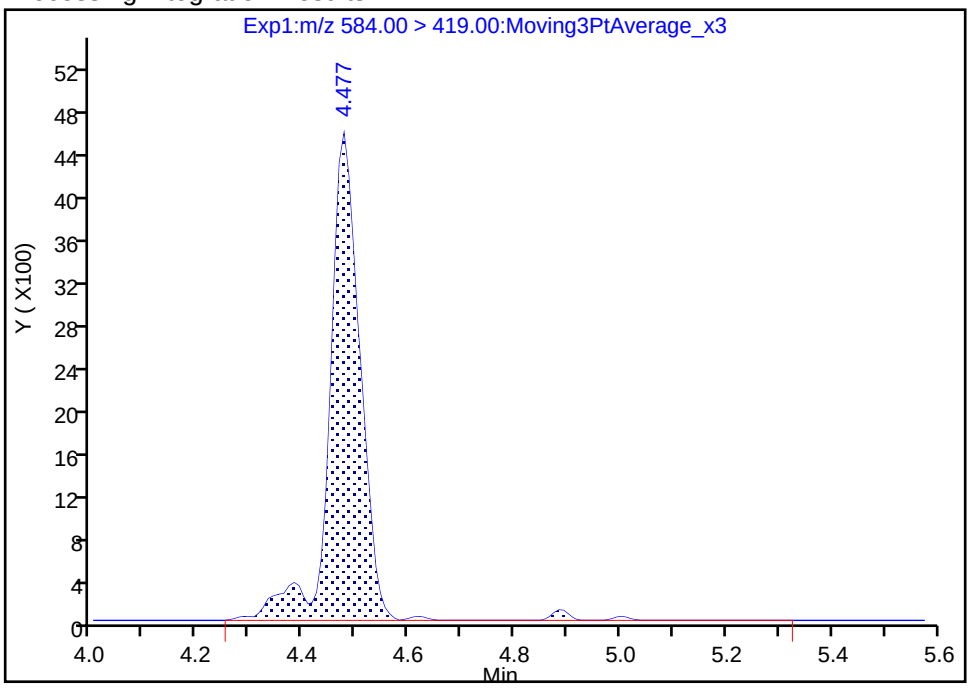
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

44 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

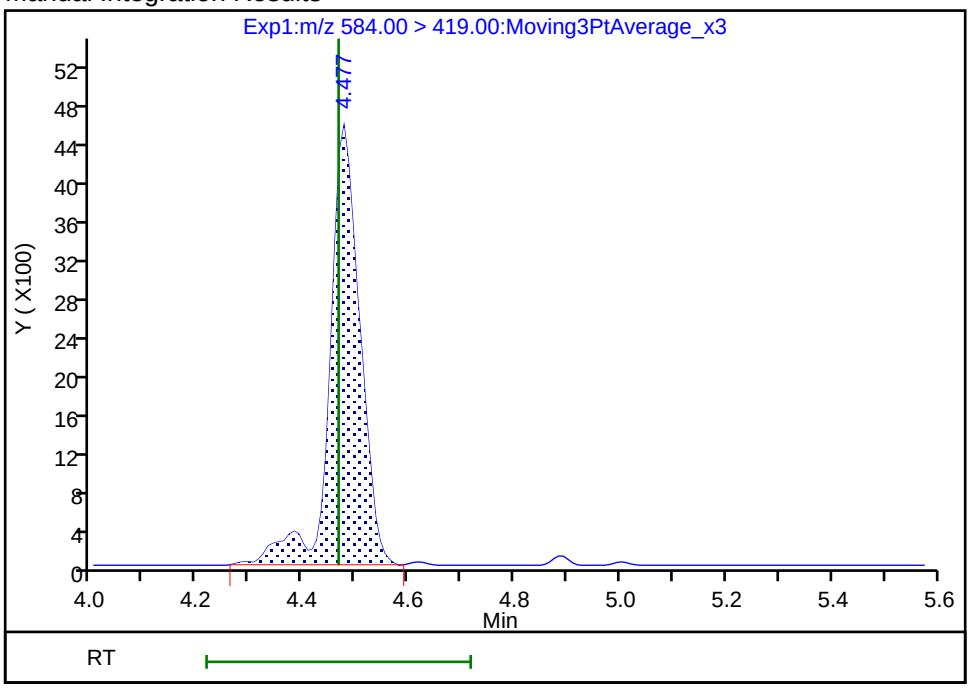
Processing Integration Results

RT: 4.48
Area: 18417
Amount: 0.025429
Amount Units: ng/ml



Manual Integration Results

RT: 4.48
Area: 17973
Amount: 0.024284
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:55:01
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

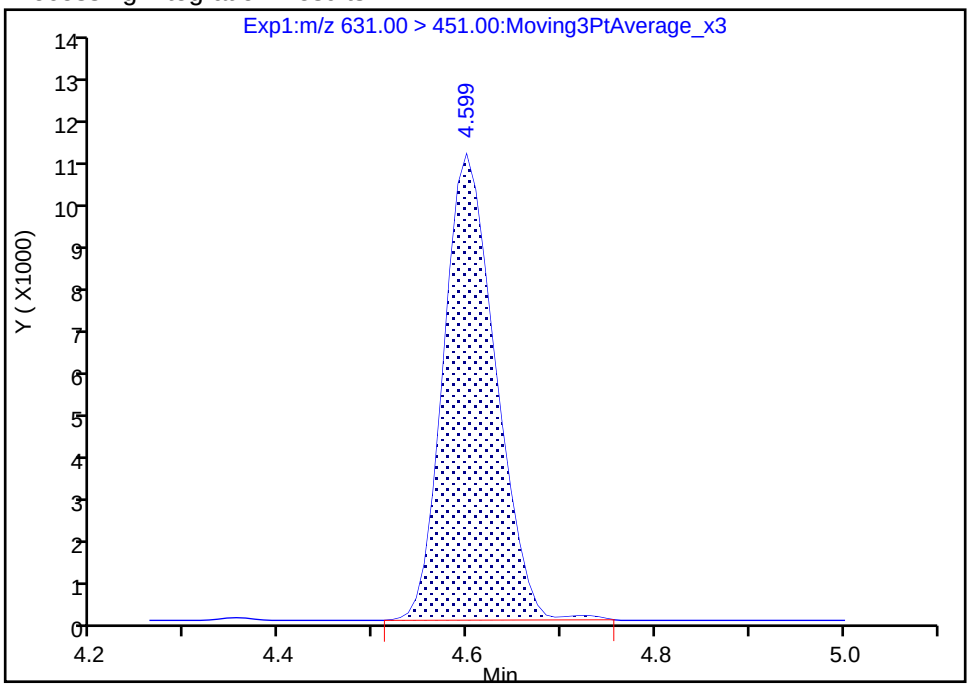
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

51 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

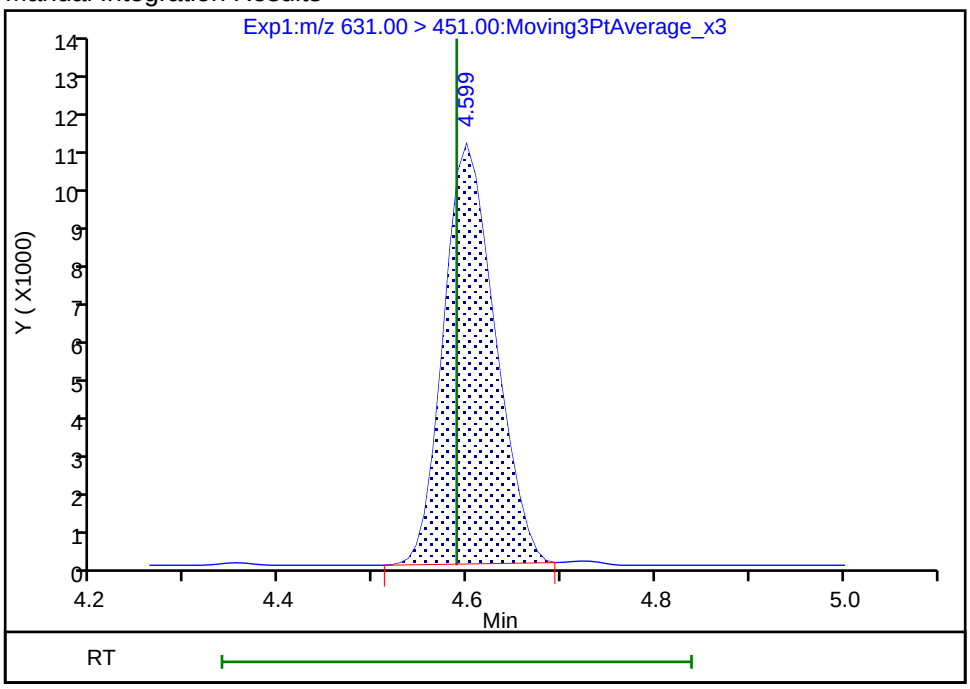
Processing Integration Results

RT: 4.60
Area: 41658
Amount: 0.023655
Amount Units: ng/ml



Manual Integration Results

RT: 4.60
Area: 41091
Amount: 0.018987
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:55:36
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

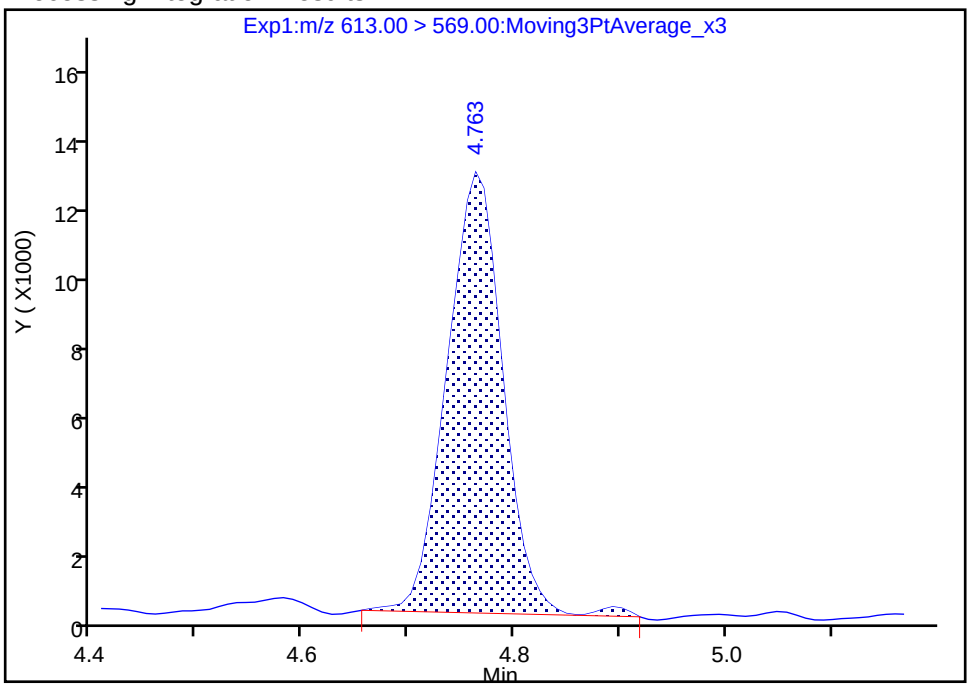
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

52 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

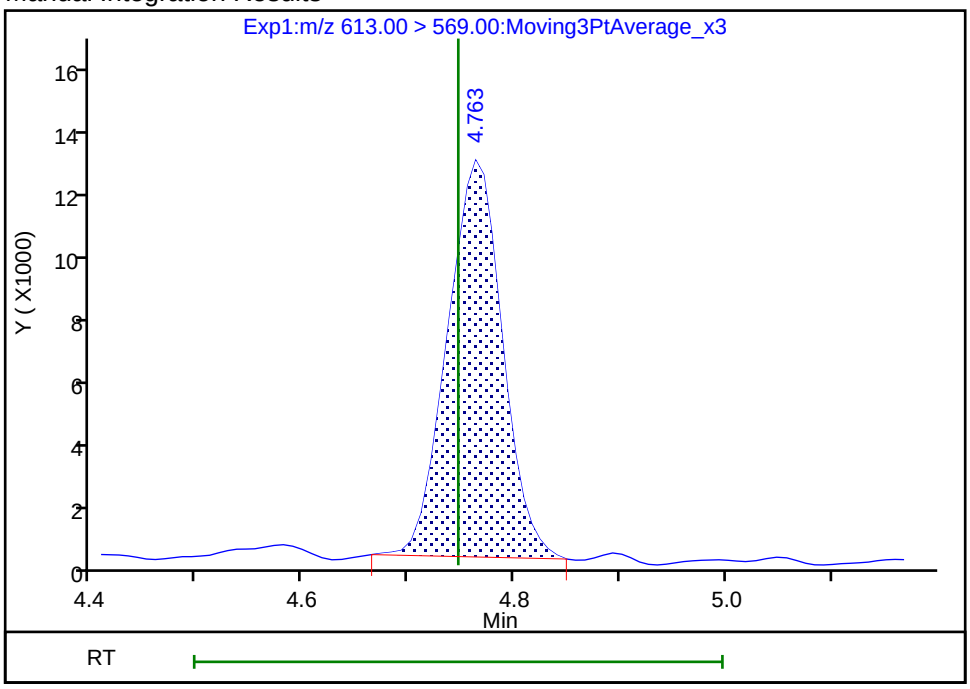
Processing Integration Results

RT: 4.76
Area: 46205
Amount: 0.023661
Amount Units: ng/ml



Manual Integration Results

RT: 4.76
Area: 45119
Amount: 0.022438
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:56:26
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

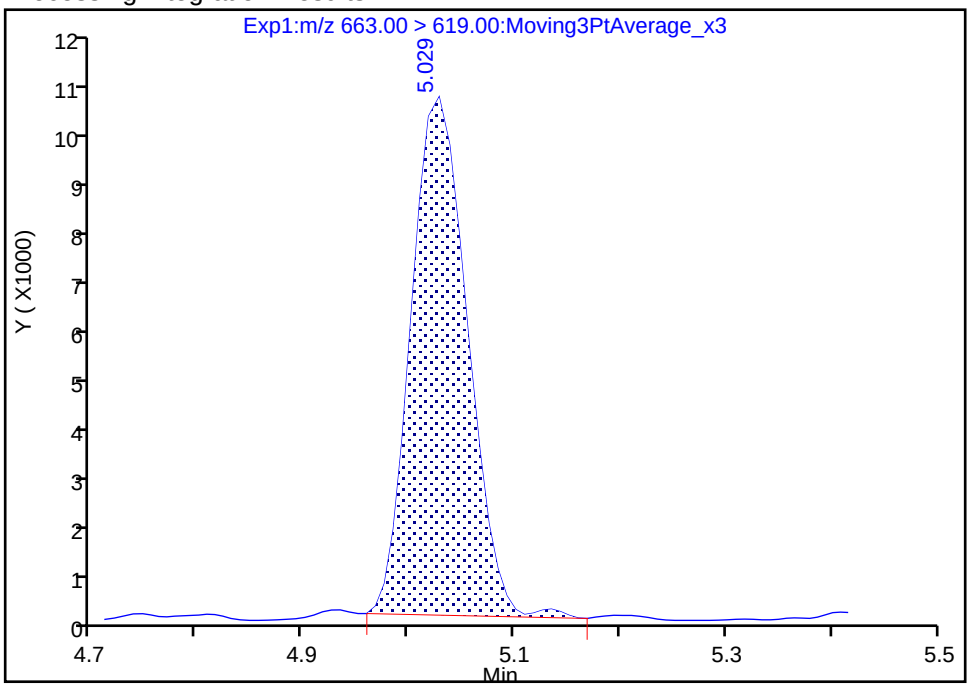
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

60 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

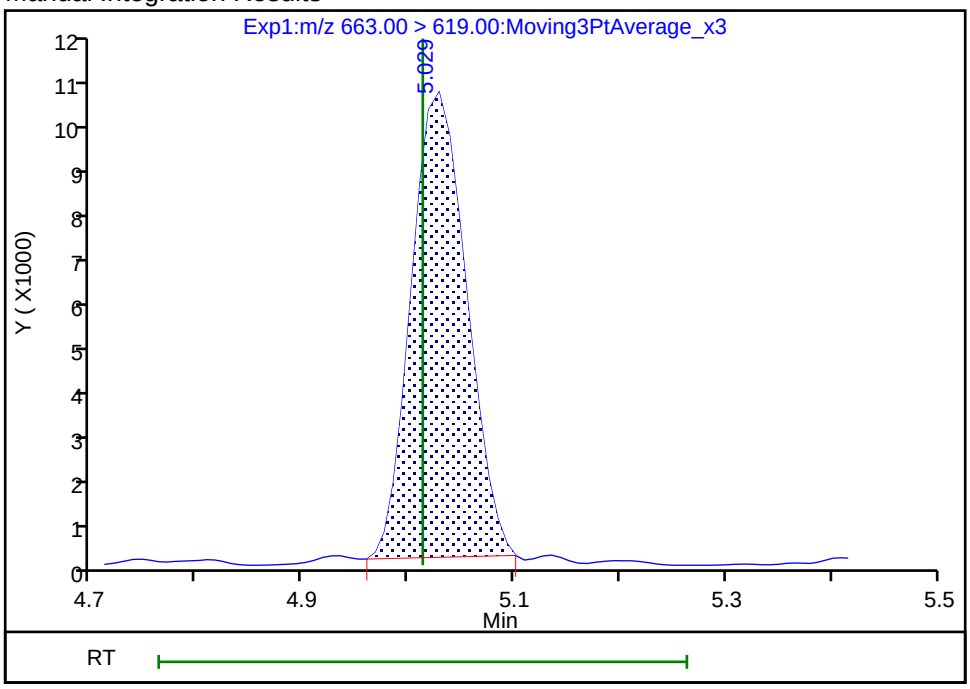
Processing Integration Results

RT: 5.03
Area: 37755
Amount: 0.025301
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 36800
Amount: 0.023161
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:57:06
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

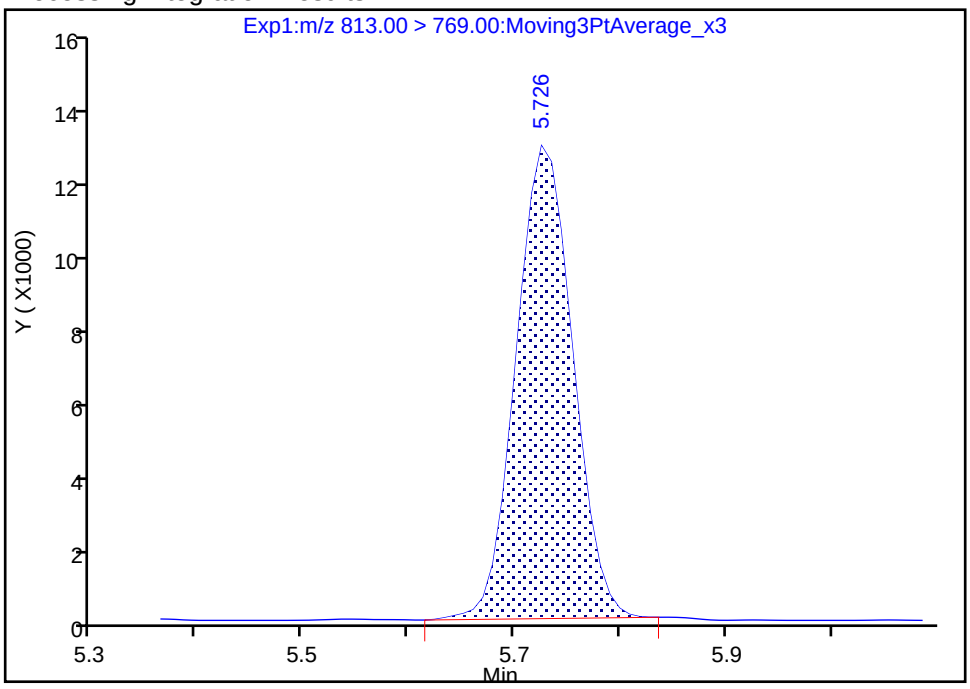
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d
Injection Date: 10-Sep-2020 10:18:34 Instrument ID: A9
Lims ID: IC L1
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

64 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

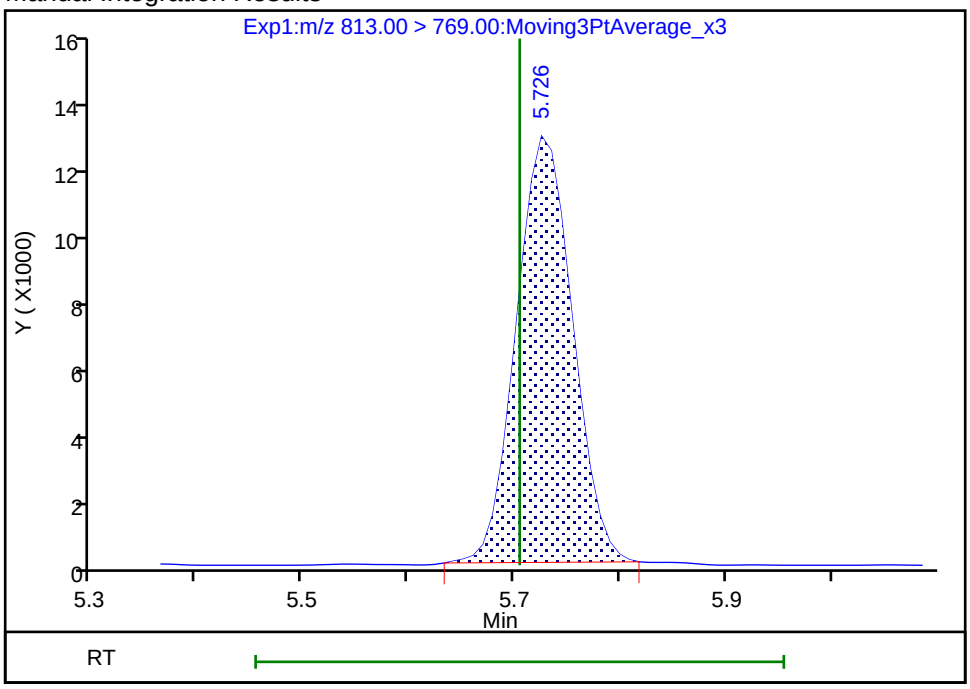
Processing Integration Results

RT: 5.73
Area: 47955
Amount: 0.029398
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 47498
Amount: 0.026093
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:57:42
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

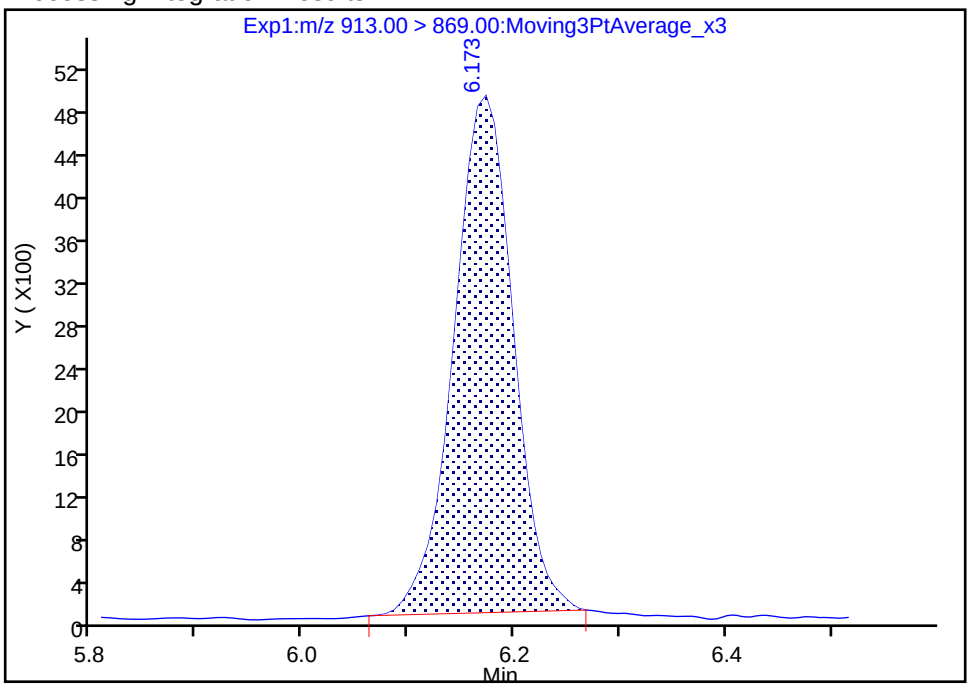
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_016.d				
Injection Date:	10-Sep-2020 10:18:34	Instrument ID:	A9		
Lims ID:	IC L1				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	10	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

65 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

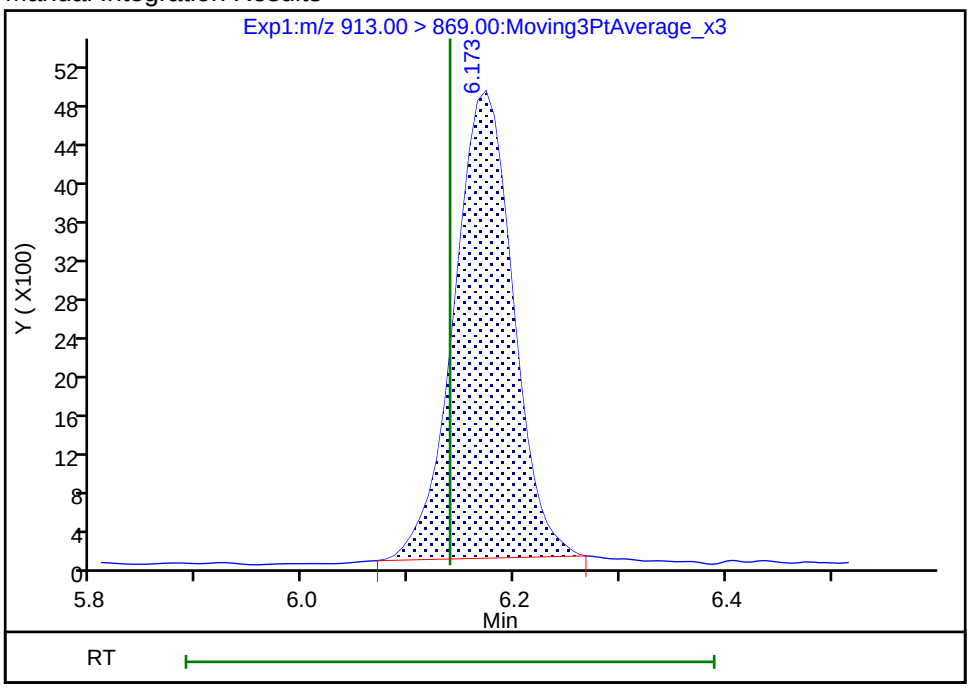
Processing Integration Results

RT: 6.17
Area: 18670
Amount: 0.025372
Amount Units: ng/ml



Manual Integration Results

RT: 6.17
Area: 18658
Amount: 0.023050
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 10:57:57
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Sep-2020 10:27:55 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD2_20
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:14:15 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 11:13:51
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.902	1.901	0.001	0.563	8530166	2.38		95.4	3122	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.902	1.904	-0.002	1.000	137934	0.0463		92.6	10.3	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.207	2.211	-0.004	0.654	7270115	2.41		96.4	3781	
3 Perfluoropentanoic acid										M
262.90 > 219.00	2.207	2.211	-0.004	1.000	153662	0.0519		104	13.1	M
D 6 13C3 PFBS										
301.90 > 80.00	2.244	2.241	0.003	0.664	13111521	2.20		94.6	3246	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.244	2.244	0.0	1.000	246180	0.0438	Target=3.10	99.0	22.0	M
298.90 > 99.00	2.244	2.244	0.0	1.000	78132		3.15(1.55-4.65)	99.0	15.4	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.537	2.533	0.004	0.751	1332209	2.25		96.4	821	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.537	2.535	0.002	1.000	50503	0.0448		95.8	836	
D 10 13C2 PFHxA										
315.00 > 270.00	2.569	2.573	-0.004	0.761	6685304	2.38		95.3	2857	
11 Perfluorohexanoic acid										M
313.00 > 269.00	2.569	2.573	-0.004	1.000	112791	0.0506	Target=9.68	101	18.0	M
313.00 > 119.00	2.569	2.573	-0.004	1.000	11801		9.56(4.84-14.52)	101	7.4	M
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.591	2.587	0.004	1.154	100810	0.0445	Target=2.01	94.9	27.2	
349.00 > 99.00	2.591	2.587	0.004	1.154	51265		1.97(1.00-3.01)	94.9	59.1	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.696	2.692	0.004	0.798	4561962	2.37		94.8	4348	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										M
285.00 > 169.00	2.687	2.691	-0.004	0.996	33818	0.0468		93.6	178	M
D 15 13C4 PFHpA										
367.00 > 322.00	2.963	2.965	-0.002	0.877	6481134	2.37		94.9	3817	
D 17 18O2 PFHxS										
403.00 > 84.00	2.969	2.969	0.0	0.879	6395663	2.24		94.8	3248	
18 Perfluoroheptanoic acid										M
363.00 > 319.00	2.969	2.966	0.003	1.002	152546	0.0531	Target=3.74	106	32.1	M
363.00 > 169.00	2.969	2.966	0.003	1.002	36134		4.22(1.87-5.61)	106	40.4	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.969	2.971	-0.002	1.000	145334	0.0456	Target=3.29	100	35.8	M
399.00 > 99.00	2.963	2.971	-0.008	0.998	45392		3.20(1.65-4.94)	100	37.6	M
19 DONA										
377.00 > 251.00	3.017	3.017	0.0	0.802	235814	0.0439	Target=1.80	93.2	406	
377.00 > 85.00	3.017	3.017	0.0	0.802	127960		1.84(0.90-2.70)	93.2	253	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.353	3.352	0.001	0.993	1211683	2.37		100.0	760	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.360	3.353	0.007	1.002	33398	0.0425		89.6	57.0	
$ 21 13C8 PFOA										
421.00 > 376.00	3.360	3.362	-0.002	0.995	5187915	2.42		98.9	6360	
24 Perfluorooctanoic acid										M
413.00 > 369.00	3.377	3.375	0.002	1.000	142372	0.0526	Target=2.37	105	36.7	M
413.00 > 169.00	3.377	3.375	0.002	1.000	58415		2.44(1.19-3.56)	105	90.7	
23 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.368	3.369	-0.001	0.895	120618	0.0440	Target=3.65	92.5	39.8	M
449.00 > 99.00	3.368	3.369	-0.001	0.895	31901		3.78(1.83-5.48)	92.5	77.5	
D 26 13C4 PFOA										
417.00 > 372.00	3.377	3.376	0.001	1.000	6274406	2.45		98.1	4938	
* 25 13C2 PFOA										
415.00 > 370.00	3.377	3.376	0.001		6627803	2.50			4421	
$ 27 13C8 PFOS										
507.00 > 99.00	3.753	3.748	0.005	1.111	1541260	2.29		95.7	1817	
D 31 13C4 PFOS										
503.00 > 80.00	3.762	3.756	0.006	1.114	7081760	2.38		99.5	1631	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.753	3.756	-0.003	0.998	129682	0.0421	Target=4.12	90.7	22.2	M
499.00 > 99.00	3.753	3.756	-0.003	0.998	33146		3.91(2.06-6.17)	90.7	78.6	M
D 29 13C5 PFNA										
468.00 > 423.00	3.771	3.767	0.004	1.117	5359539	2.41		96.5	3717	
30 Perfluorononanoic acid										
463.00 > 419.00	3.771	3.770	0.001	1.000	102230	0.0479	Target=4.21	95.8	85.9	
463.00 > 169.00	3.771	3.770	0.001	1.000	23382		4.37(2.11-6.32)	95.8	41.7	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.956	3.956	0.0	1.052	70052	0.0377		80.9	242	
D 36 13C8 FOSA										
506.00 > 78.00	4.082	4.086	-0.004	1.209	3362698	2.40		96.1	2632	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.082	4.086	-0.004	1.000	193336	0.0517		103	326	
35 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.109	4.106	0.003	1.092	105305	0.0468	Target=5.56	97.5	65.6	M
549.00 > 99.00	4.109	4.106	0.003	1.092	21473		4.90(2.78-8.34)	97.5	118	
D 33 13C2 PFDA										
515.00 > 470.00	4.136	4.130	0.006	1.225	7008972	2.49		99.5	3813	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.136	4.133	0.003	1.225	1419334	2.27		94.8	1099	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.136	4.132	0.004	1.000	136570	0.0488	Target=14.33	97.6	84.3	
513.00 > 169.00	4.136	4.132	0.004	1.000	10455		13.06(7.16-21.49)	97.6	35.9	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.136	4.135	0.001	1.000	39446	0.0517		108	273	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.298	4.295	0.003	1.273	3456007	2.47		98.7	2379	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.298	4.299	-0.001	1.000	45421	0.0433		86.5	5.7	
42 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.426	4.427	-0.001	1.176	106796	0.0424	Target=4.29	88.1	47.6	M
599.00 > 99.00	4.434	4.427	0.007	1.179	27977		3.82(2.15-6.44)	88.1	99.9	
D 46 13C2 PFUnA										
565.00 > 520.00	4.460	4.455	0.005	1.321	5260148	2.42		96.8	6249	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.460	4.460	0.0	1.321	2277884	2.43		97.0	2826	
43 Perfluoroundecanoic acid										M
563.00 > 519.00	4.460	4.455	0.005	1.000	69809	0.0477	Target=6.74	95.3	88.5	M
563.00 > 169.00	4.452	4.455	-0.003	0.998	12386		5.64(3.37-10.11)	95.3	39.7	M
44 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.469	4.467	0.002	1.002	34070	0.0461		92.2	168	M
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.537	4.546	-0.009	1.344	5539720	12.3		98.3	5996	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.554	4.557	-0.003	1.004	18624	0.0403		80.6	41.6	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.563	4.565	-0.002	1.351	1442000	2.29		91.5	220	
50 NMeFOSA										
512.00 > 169.00	4.563	4.569	-0.006	1.000	27638	0.0459		91.9	121	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.590	4.588	0.002	1.220	83643	0.0382		81.0	233	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.712	4.718	-0.006	1.395	5707198	12.1		96.5	5559	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.721	4.731	-0.010	1.002	18393	0.0405		81.1	45.5	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.739	4.741	-0.002	1.403	1516817	2.32		92.7	983	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.748	4.749	-0.001	1.002	28777	0.0477		95.3	95.2	
D 56 13C2 PFDoA										
615.00 > 570.00	4.756	4.747	0.009	1.408	5293603	2.48		99.2	7987	
52 Perfluorododecanoic acid										M
613.00 > 569.00	4.748	4.747	0.001	0.998	99619	0.0512	Target=6.67	102	155	
613.00 > 169.00	4.756	4.747	0.009	1.000	16285		6.12(3.34-10.01)	102	67.2	M
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.771	4.766	0.005	1.154	24976	0.0513		106	233	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.985	4.978	0.007	1.325	16271	0.0433	Target=1.02	89.4	31.4	
699.00 > 99.00	4.985	4.978	0.007	1.325	15010		1.08(0.51-1.53)	89.4	87.8	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.019	5.013	0.006	1.055	71389	0.0464	Target=4.80	92.8	253	
663.00 > 169.00	5.019	5.013	0.006	1.055	14440		4.94(2.40-7.20)	92.8	193	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.269	5.258	0.011	1.560	3593219	2.41		96.6	5811	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.269	5.259	0.010	1.000	11378	0.0449	Target=1.37	89.7	93.5	
713.00 > 219.00	5.260	5.259	0.001	0.998	9079		1.25(0.69-2.06)	89.7	74.5	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.717	5.703	0.014	1.693	2778903	2.52		101	7110	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.717	5.705	0.012	1.000	69039	0.0460	Target=4.63	92.0	188	
813.00 > 169.00	5.717	5.705	0.012	1.000	15337		4.50(2.32-6.95)	92.0	133	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.158	6.139	0.019	1.077	37227	0.0448	Target=4.01	89.6	154	
913.00 > 169.00	6.158	6.139	0.019	1.077	9063		4.11(2.01-6.02)	89.6	102	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00020 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:14:20 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d

Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9

Lims ID: IC L2

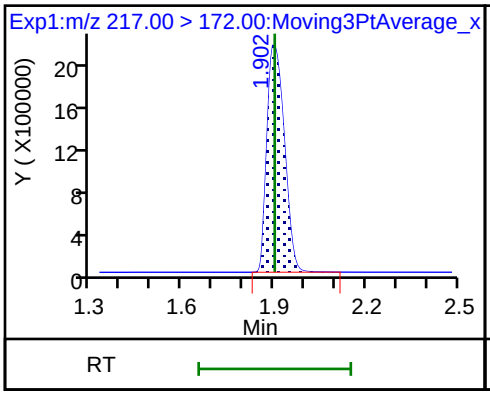
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3

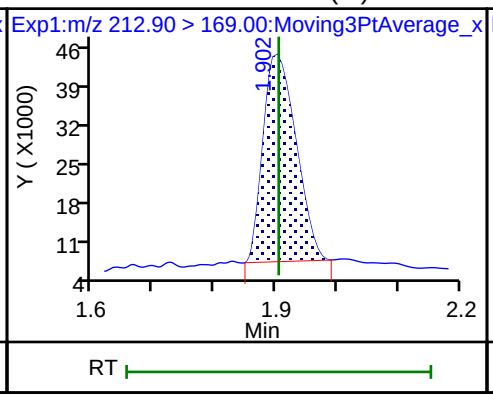
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

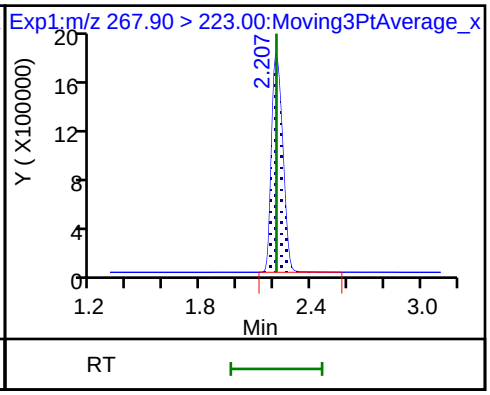
D 1 13C4 PFBA



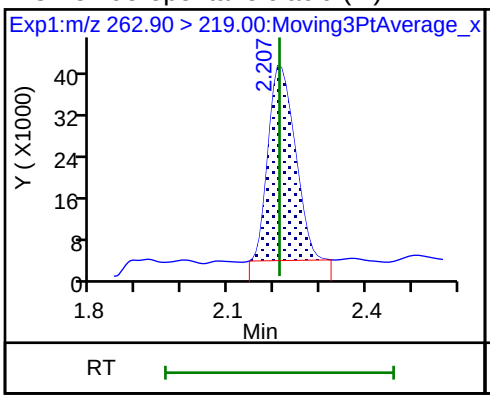
2 Perfluorobutanoic acid (M)



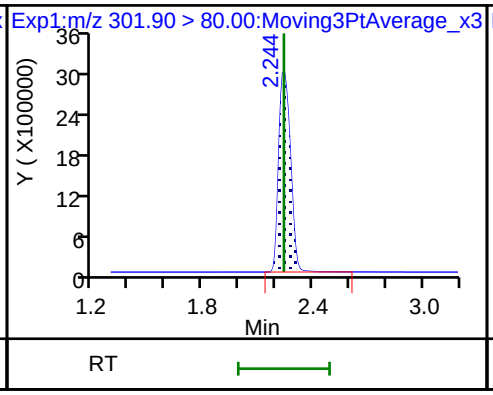
D 4 13C5 PFPeA



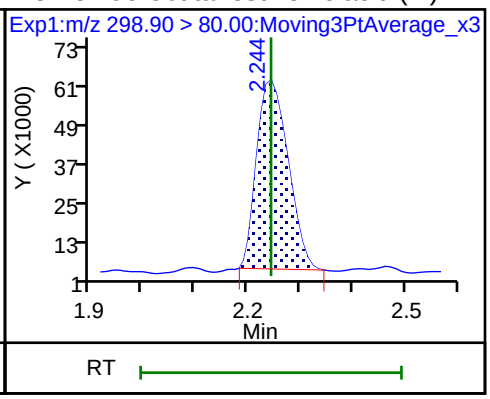
3 Perfluoropentanoic acid (M)



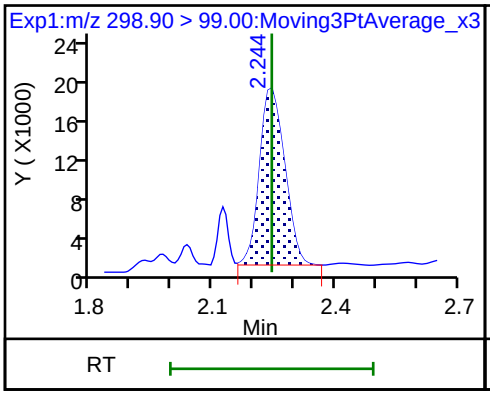
D 6 13C3 PFBS



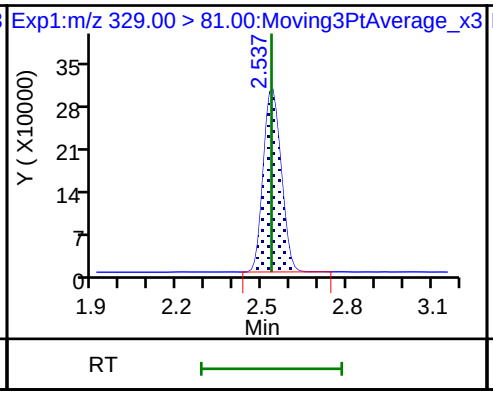
5 Perfluorobutanesulfonic acid (M)



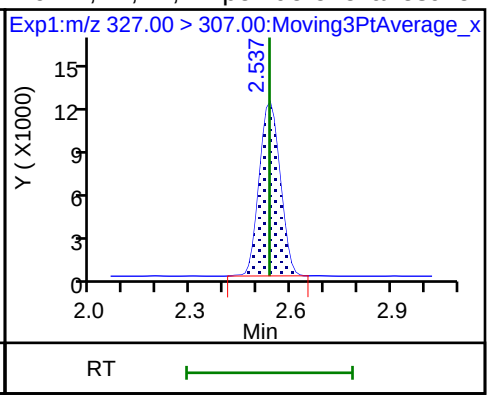
5 Perfluorobutanesulfonic acid



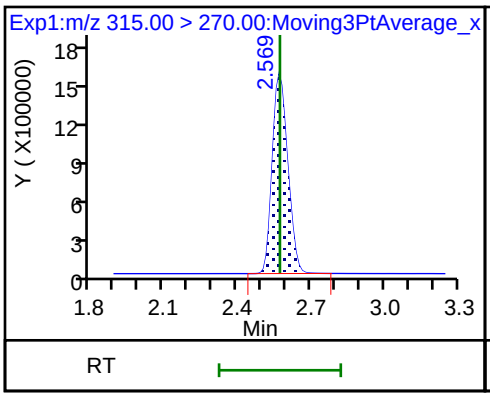
D 8 M2-4:2 FTS



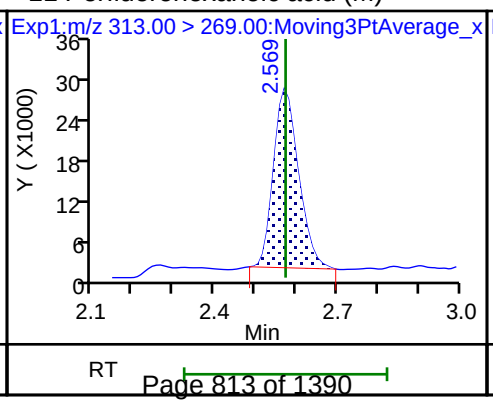
9 1H,1H,2H,2H-perfluorohexanesulfo



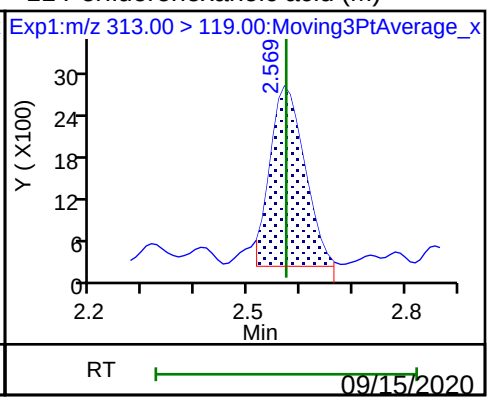
D 10 13C2 PFHxA



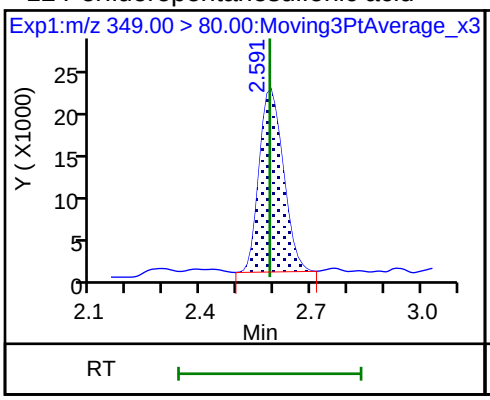
11 Perfluorohexanoic acid (M)



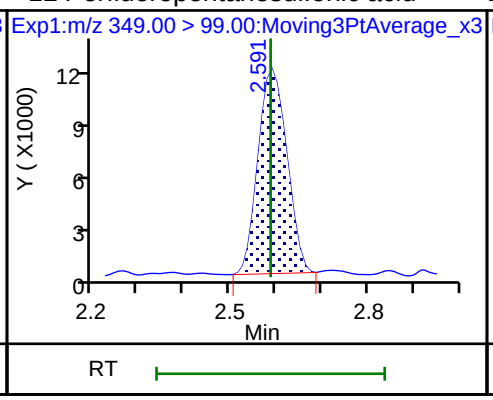
11 Perfluorohexanoic acid (M)



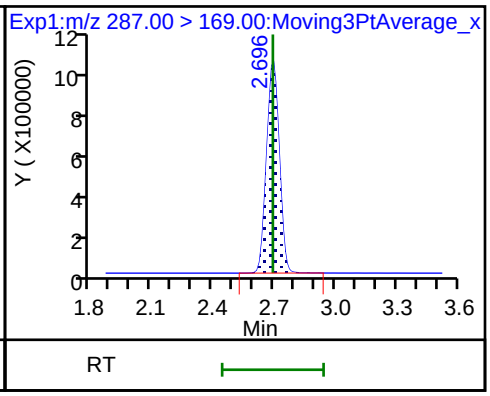
12 Perfluoropentanesulfonic acid



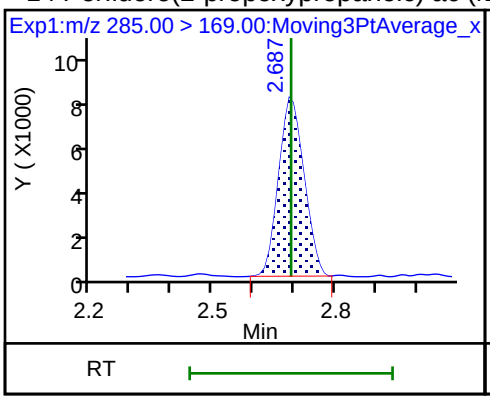
12 Perfluoropentanesulfonic acid



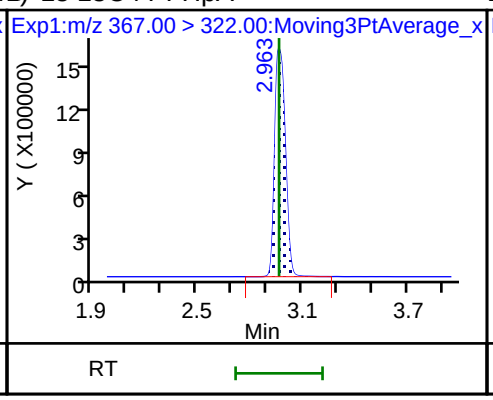
D 13 13C3 HFPO-DA



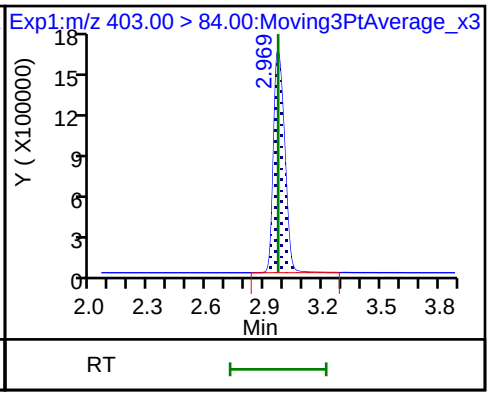
14 Perfluoro(2-propoxypropanoic) ac (M)



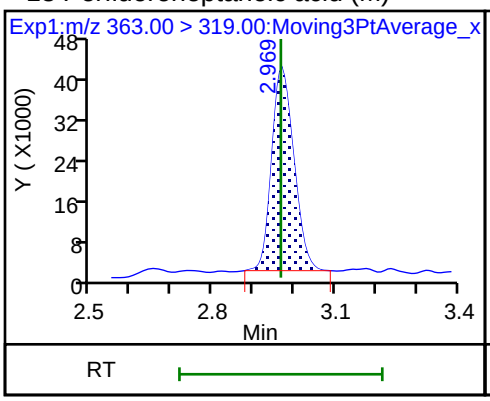
D 15 13C4 PFHpA



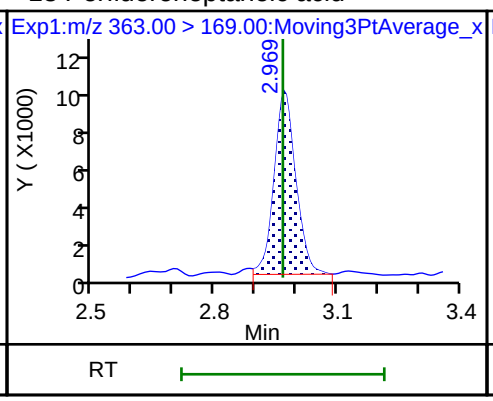
D 17 18O2 PFHxS



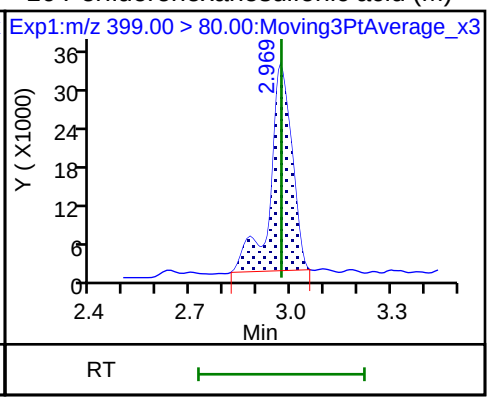
18 Perfluoroheptanoic acid (M)



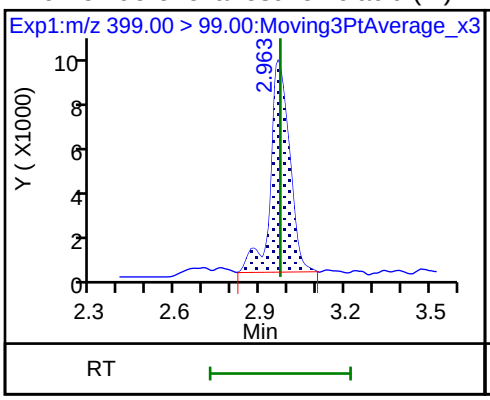
18 Perfluoroheptanoic acid



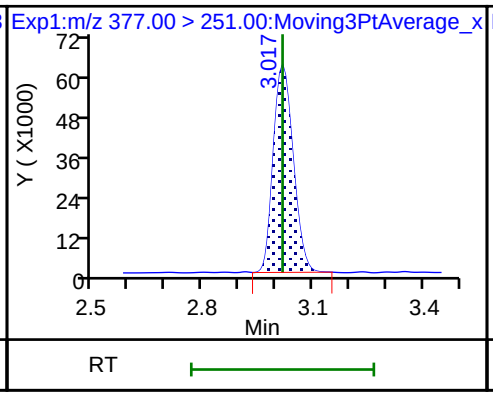
16 Perfluorohexanesulfonic acid (M)



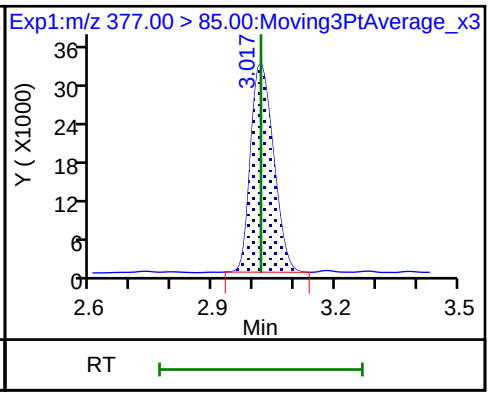
16 Perfluorohexanesulfonic acid (M)



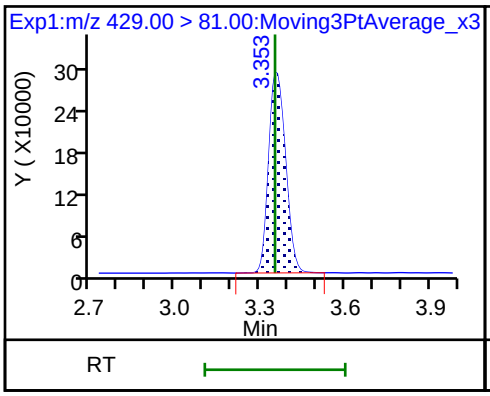
19 DONA



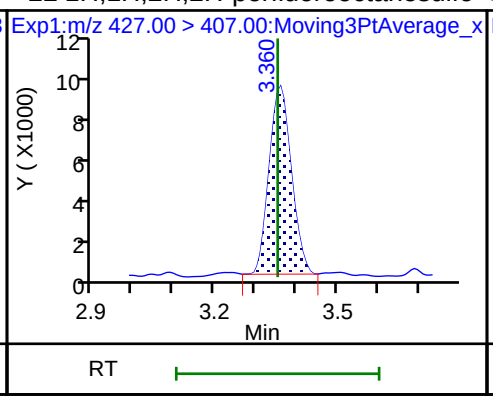
19 DONA



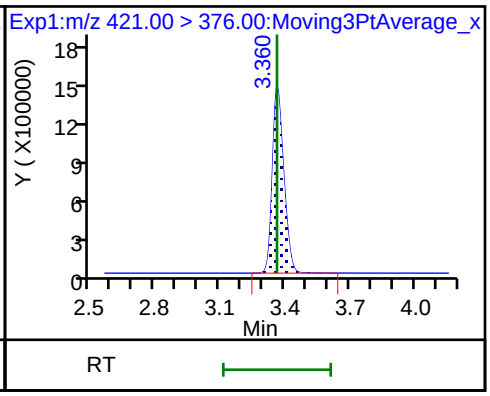
D 20 M2-6:2 FTS



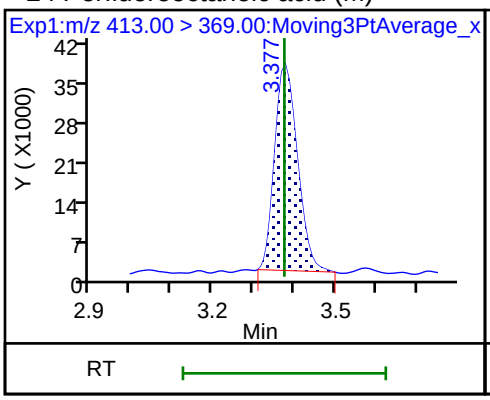
22 1H,1H,2H,2H-perfluorooctanesulfo



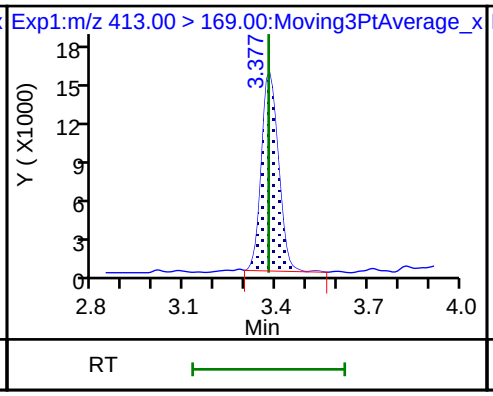
$ 21 13C8 PFOA



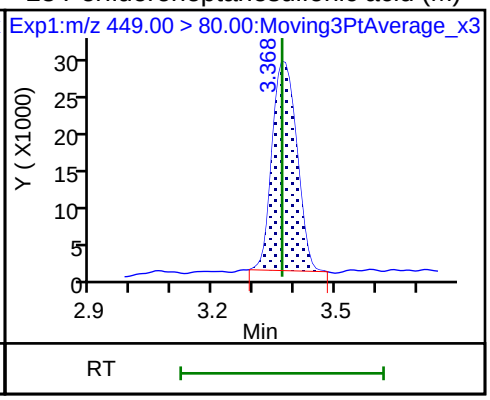
24 Perfluorooctanoic acid (M)



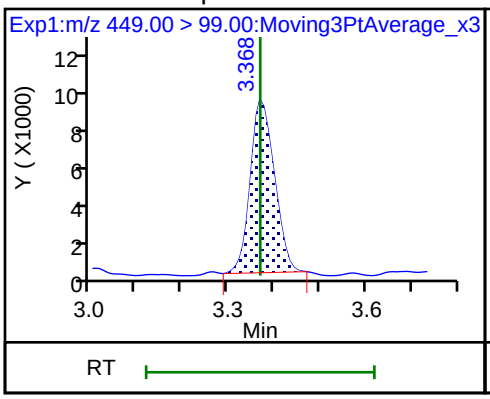
24 Perfluorooctanoic acid



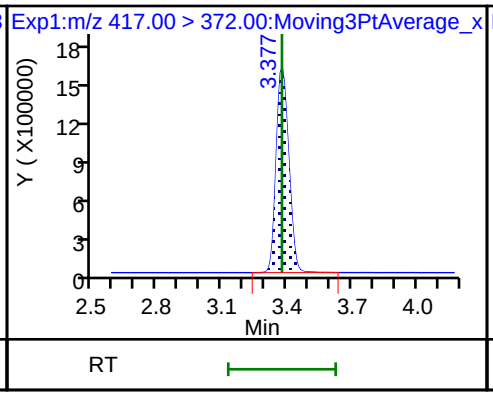
23 Perfluoroheptanesulfonic acid (M)



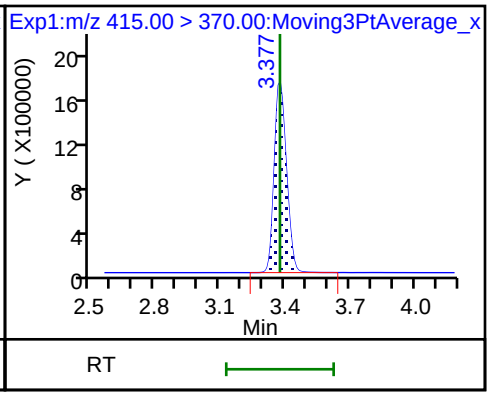
23 Perfluoroheptanesulfonic acid



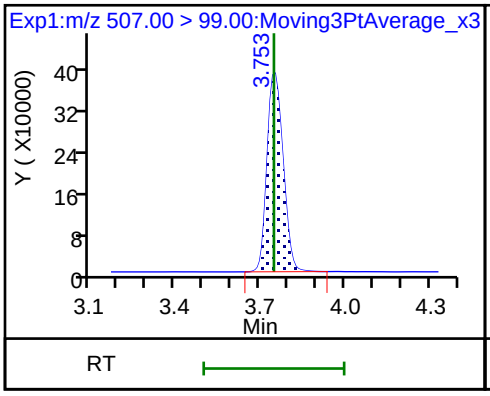
D 26 13C4 PFOA



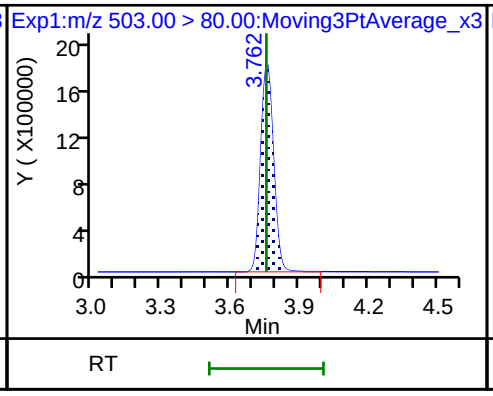
* 25 13C2 PFOA



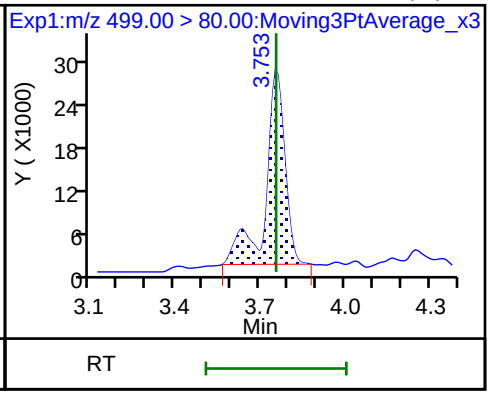
$ 27 13C8 PFOS



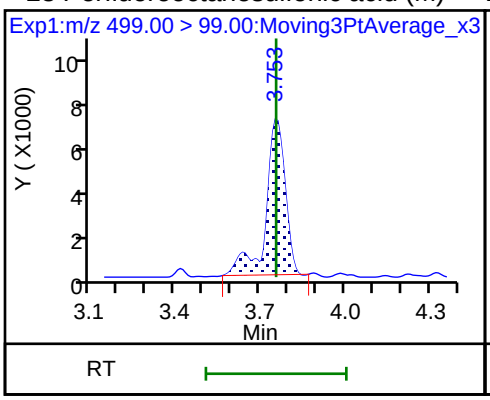
D 31 13C4 PFOS



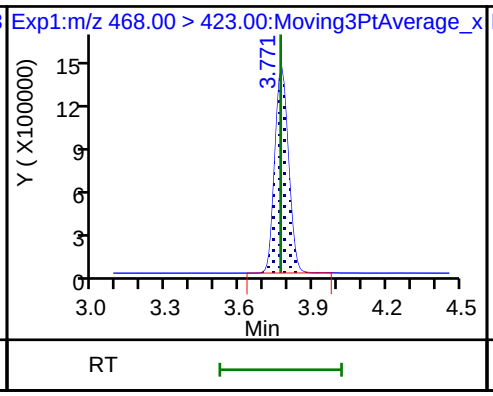
28 Perfluorooctanesulfonic acid (M)



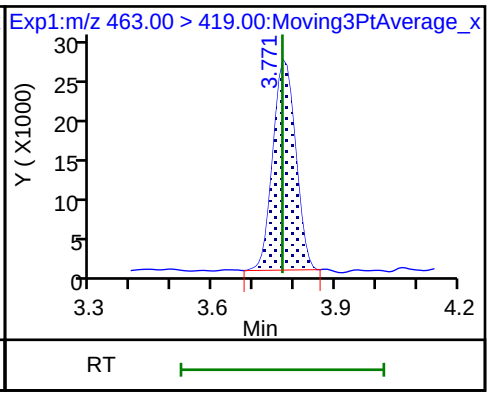
28 Perfluorooctanesulfonic acid (M)



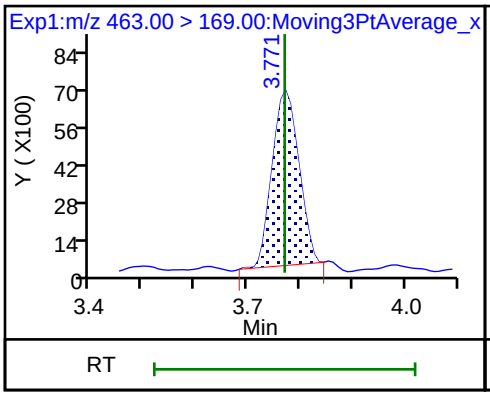
D 29 13C5 PFNA



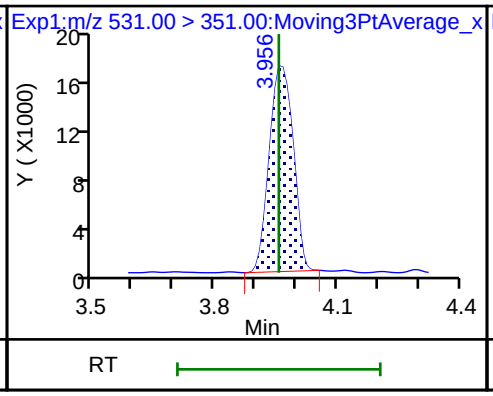
30 Perfluorononanoic acid



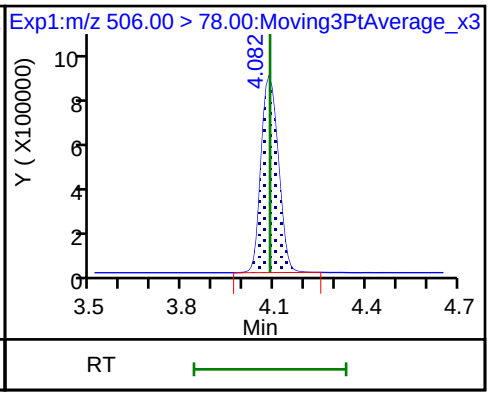
30 Perfluorononanoic acid



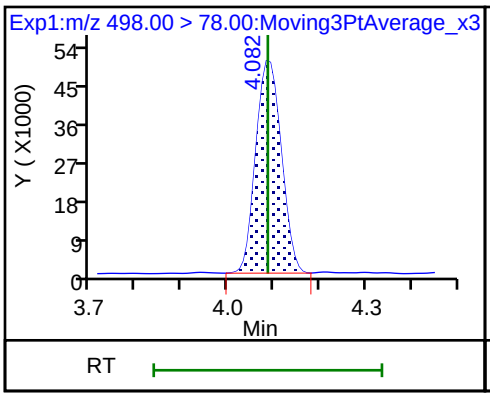
32 9-Chlorohexadecafluoro-3-oxanona



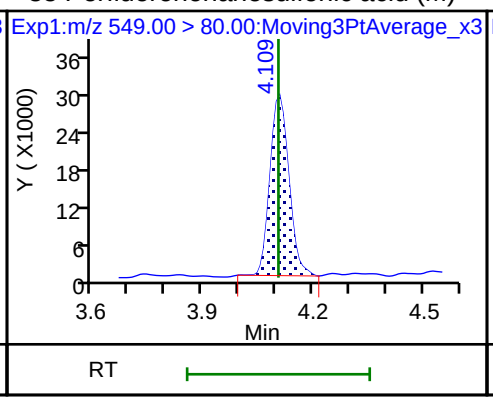
D 36 13C8 FOSA



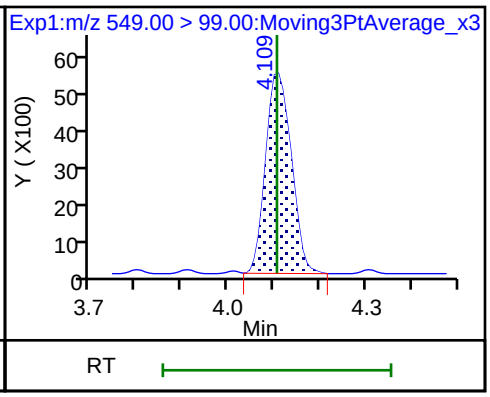
34 Perfluorooctanesulfonamide



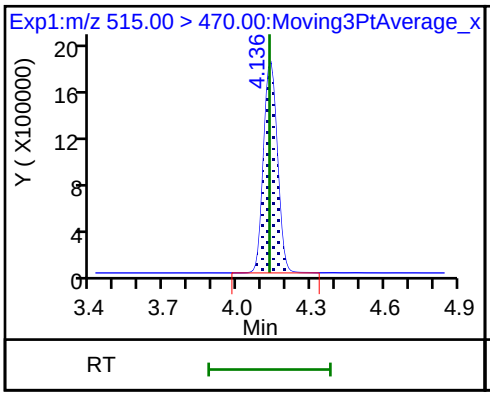
35 Perfluorononanesulfonic acid (M)



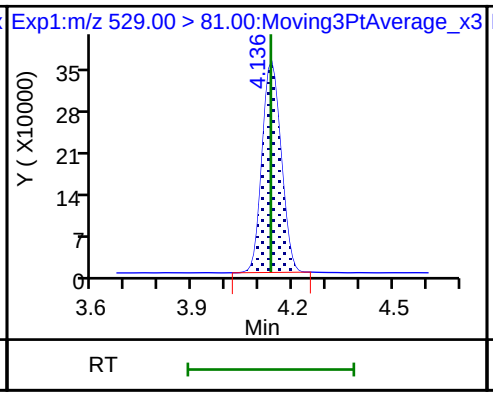
35 Perfluorononanesulfonic acid



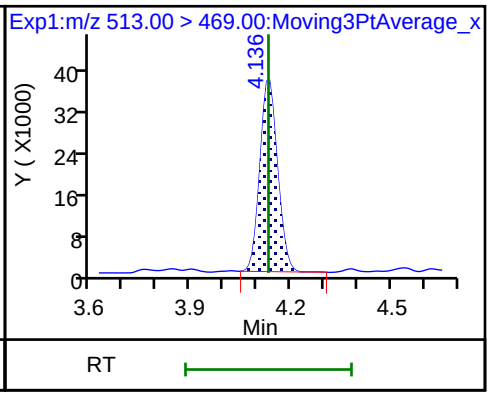
D 33 13C2 PFDA



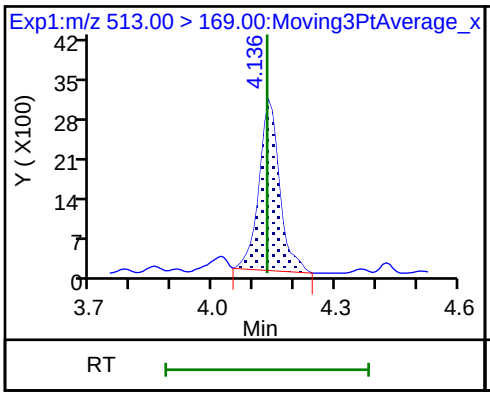
D 37 M2-8:2 FTS



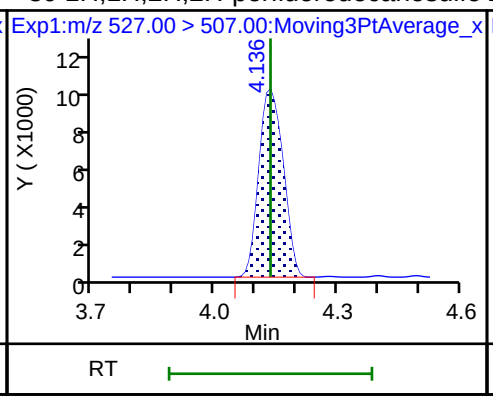
38 Perfluorodecanoic acid



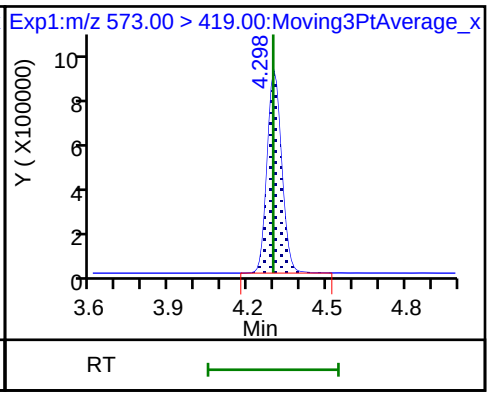
38 Perfluorodecanoic acid



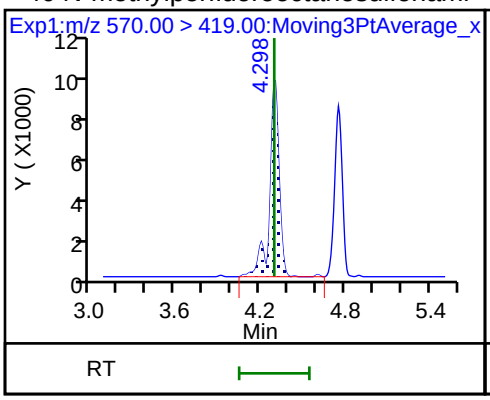
39 1H,1H,2H,2H-perfluorodecanesulfo



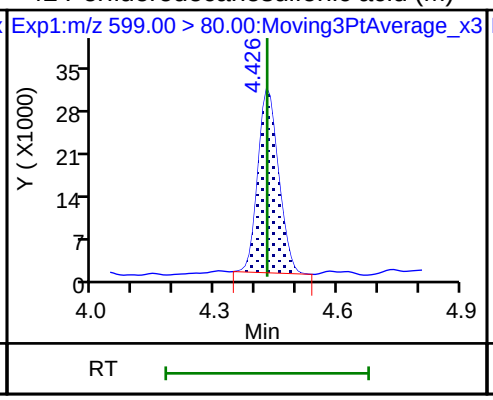
D 41 d3-NMeFOSAA



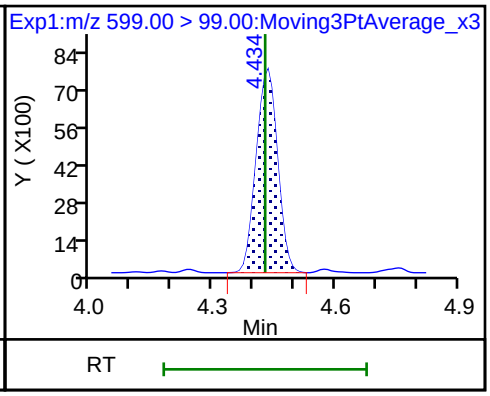
40 N-methylperfluorooctanesulfonami



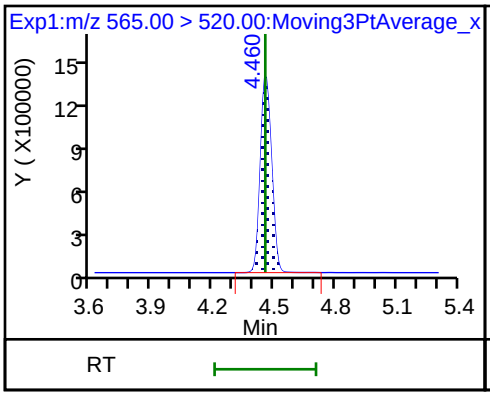
42 Perfluorodecanesulfonic acid (M)



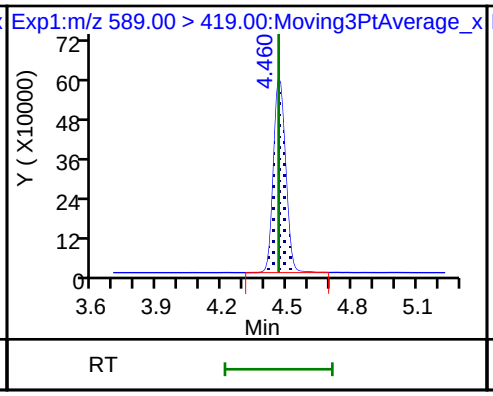
42 Perfluorodecanesulfonic acid



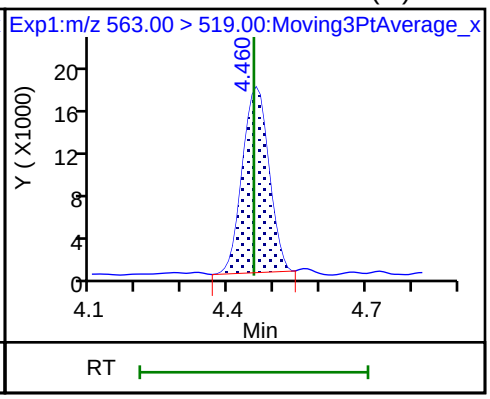
D 46 13C2 PFUnA



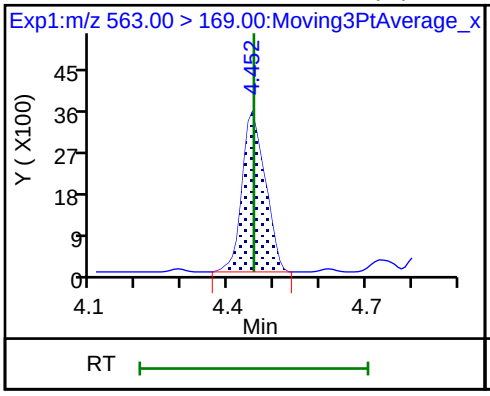
D 45 d5-NEtFOSAA



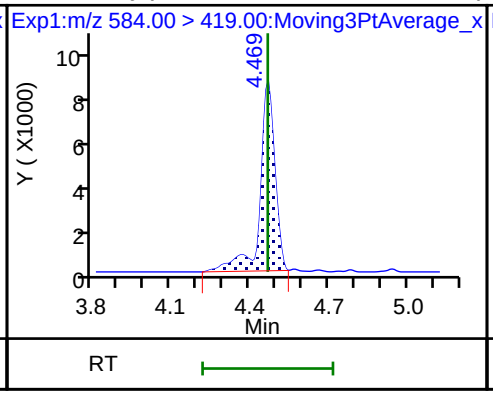
43 Perfluoroundecanoic acid (M)



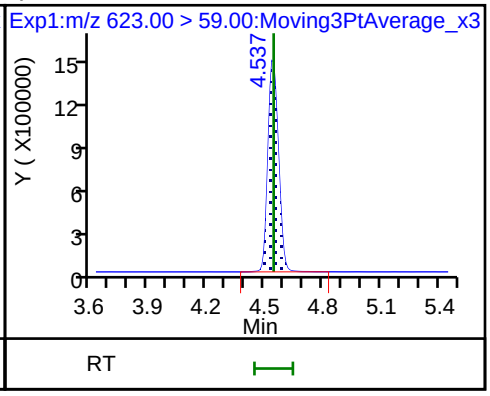
43 Perfluoroundecanoic acid (M)



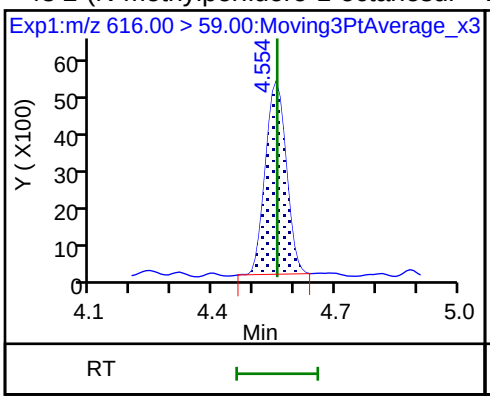
44 N-ethylperfluorooctanesulfonamid (M)



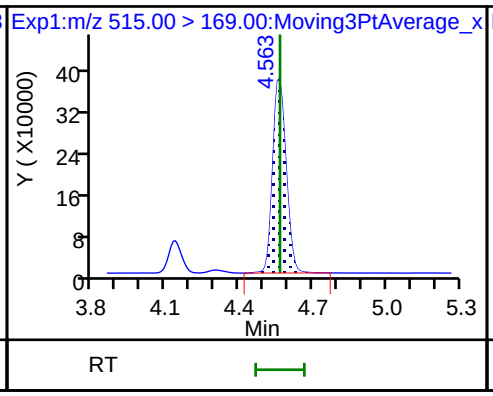
D 47 d7-N-MeFOSE-M



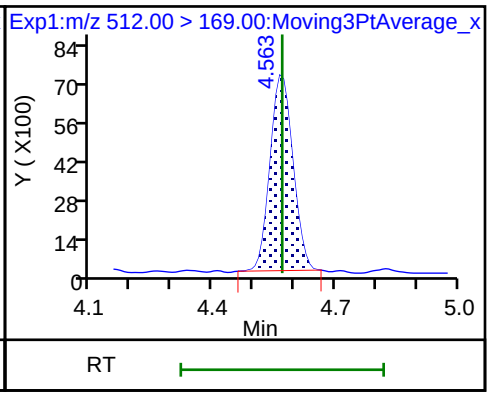
48 2-(N-methylperfluoro-1-octanesul



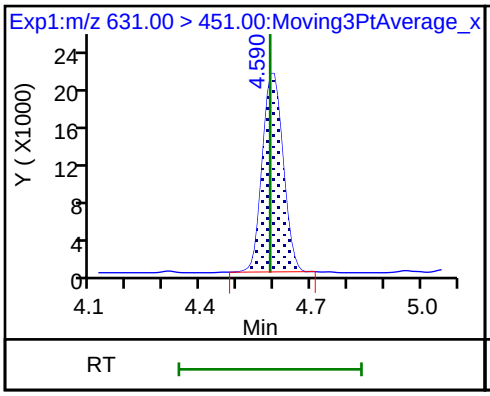
D 49 d-N-MeFOSA-M



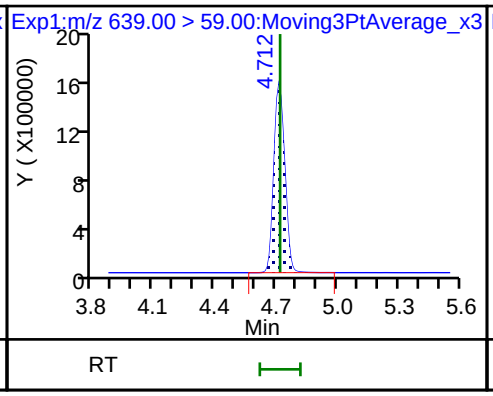
50 NMeFOSA



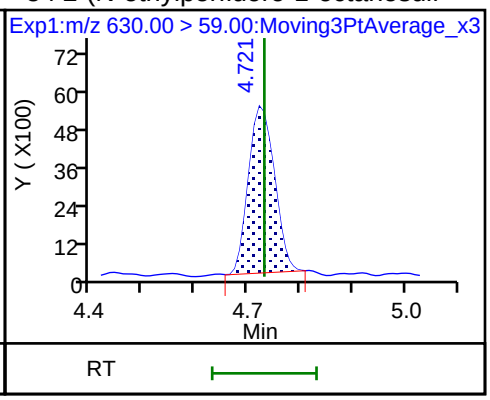
51 11-Chloroeicosafluoro-3-oxaundec



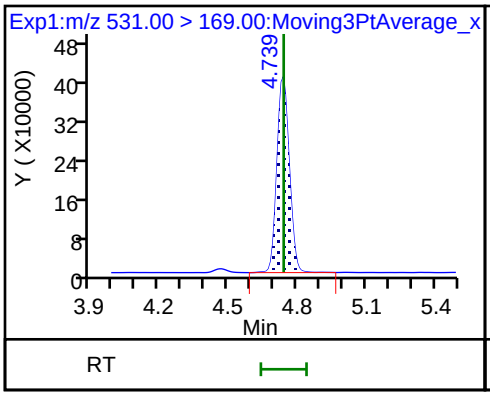
D 53 d9-N-EtFOSE-M



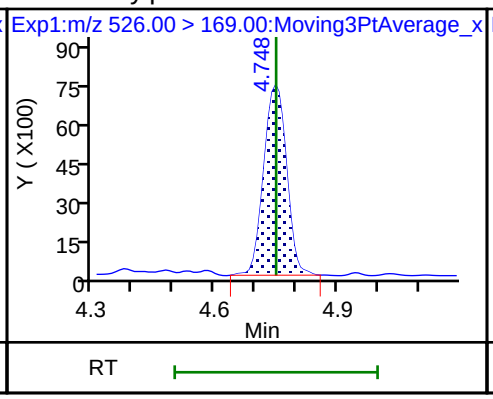
54 2-(N-ethylperfluoro-1-octanesulf



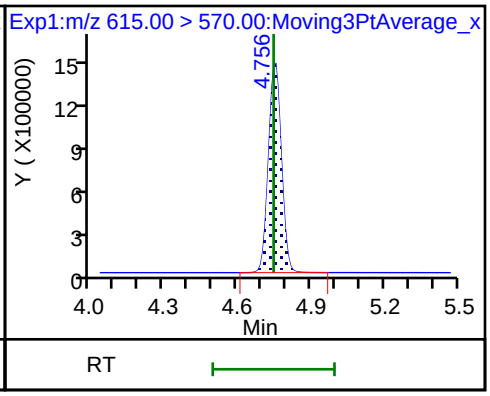
D 58 d-N-EtFOSA-M



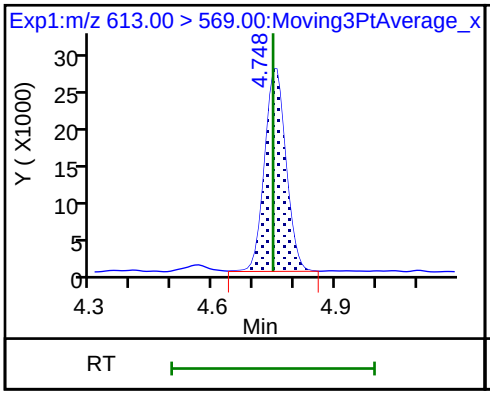
57 N-ethylperfluoro-1-octanesulfona



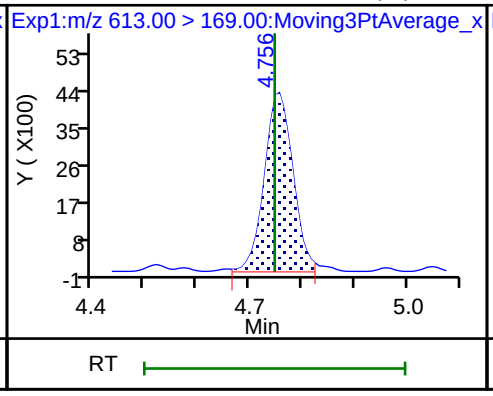
D 56 13C2 PFDoA



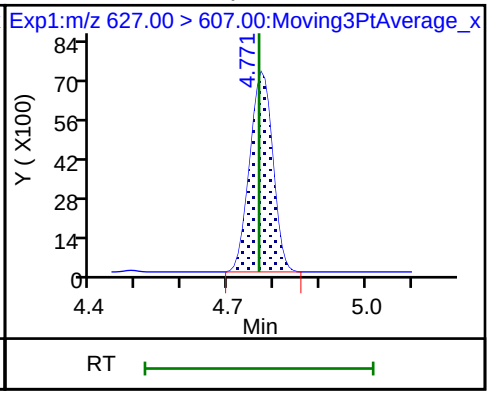
52 Perfluorododecanoic acid



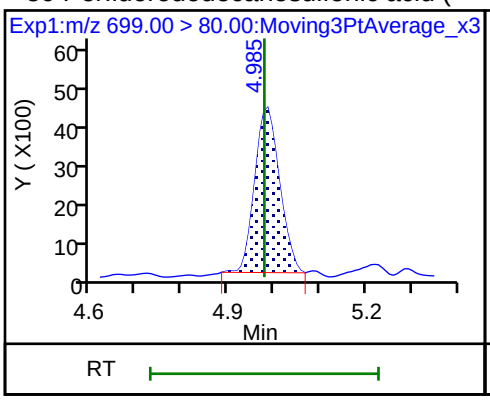
52 Perfluorododecanoic acid (M)



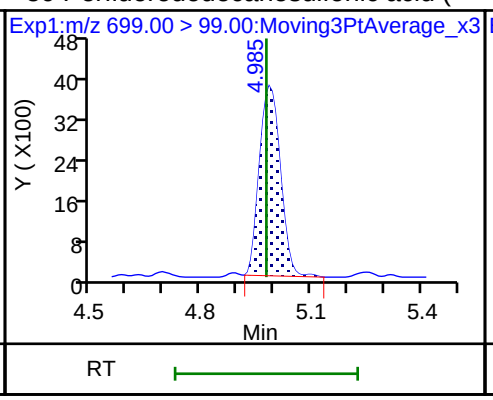
55 1H,1H,2H,2H-perfluorododecanesul



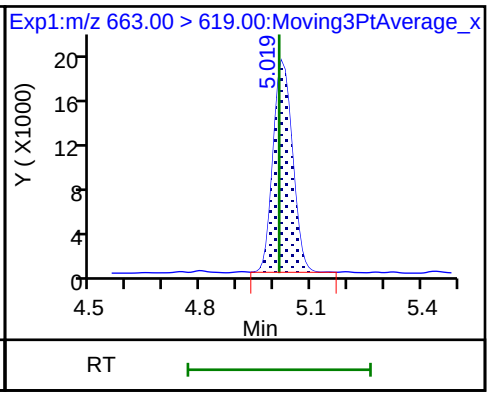
59 Perfluorododecanesulfonic acid (



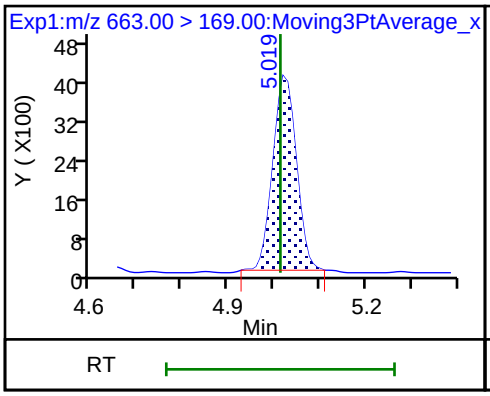
59 Perfluorododecanesulfonic acid (



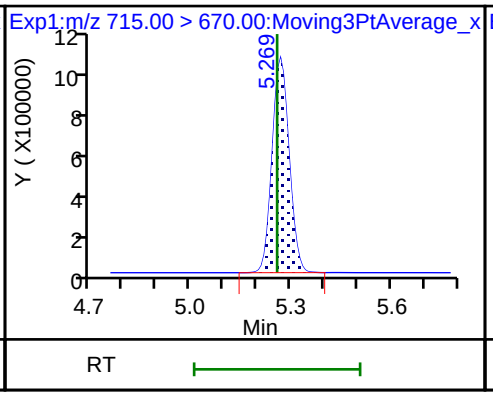
60 Perfluorotridecanoic acid



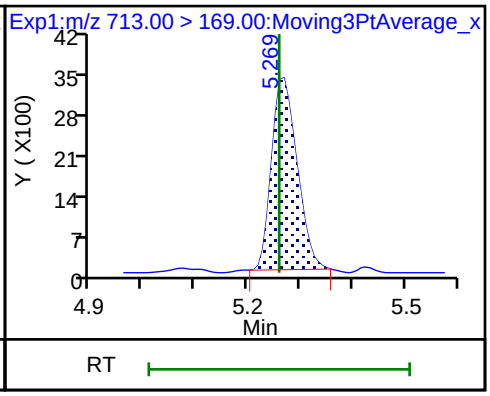
60 Perfluorotridecanoic acid



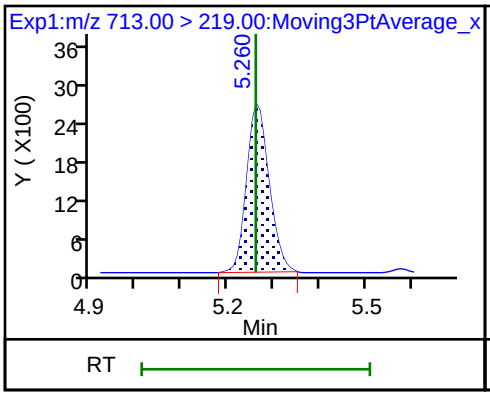
D 62 13C2 PFTeDA



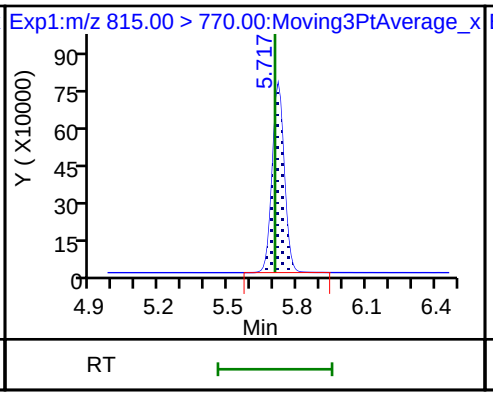
61 Perfluorotetradecanoic acid



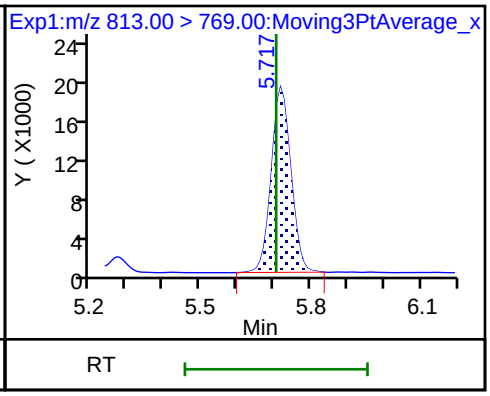
61 Perfluorotetradecanoic acid



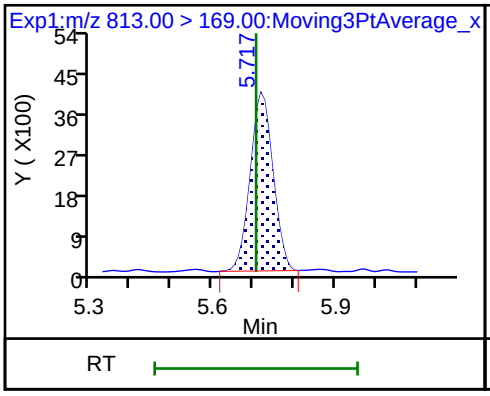
D 63 13C2 PFHxDA



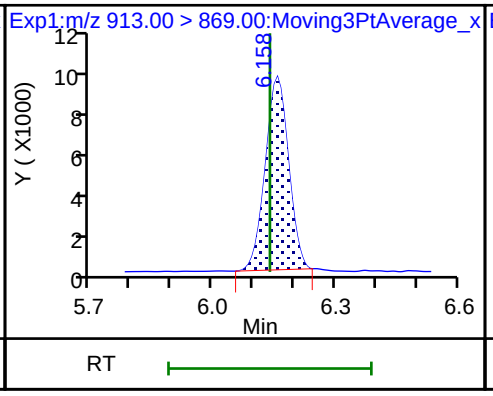
64 Perfluorohexadecanoic acid



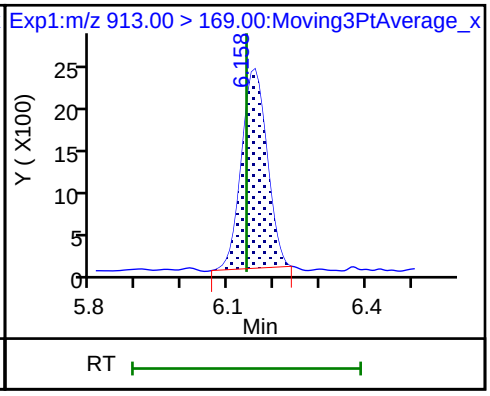
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

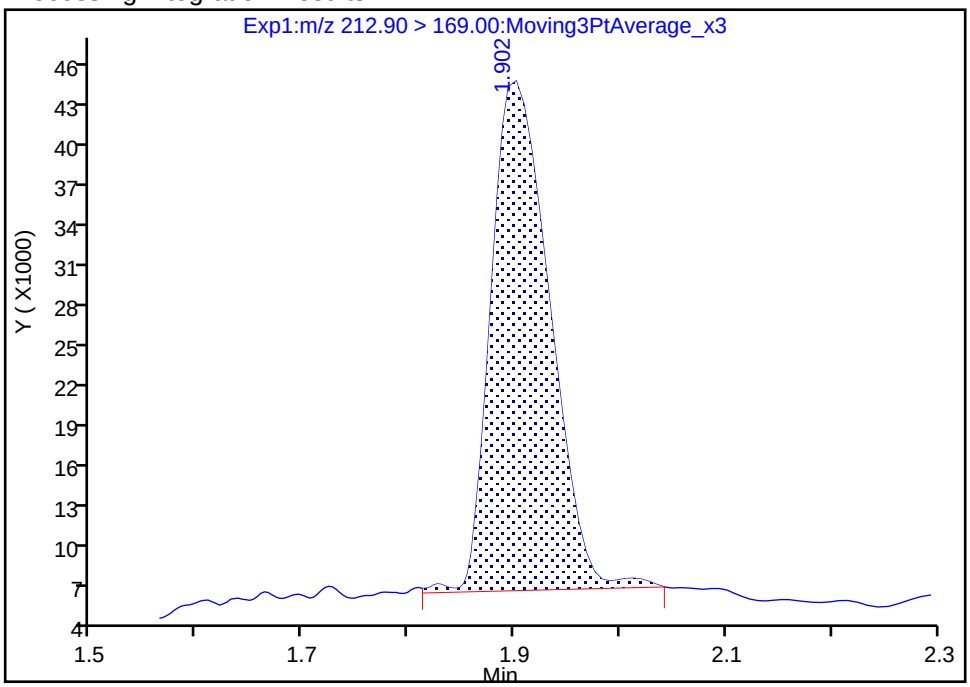
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

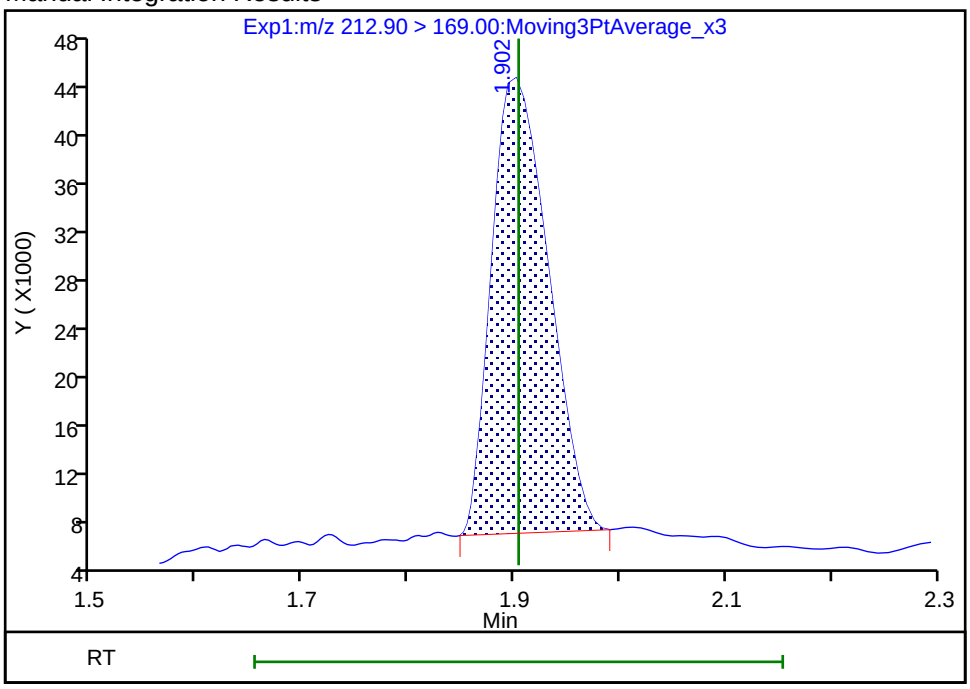
Processing Integration Results

RT: 1.90
Area: 144047
Amount: 0.051399
Amount Units: ng/ml



Manual Integration Results

RT: 1.90
Area: 137934
Amount: 0.046283
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:00:57
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

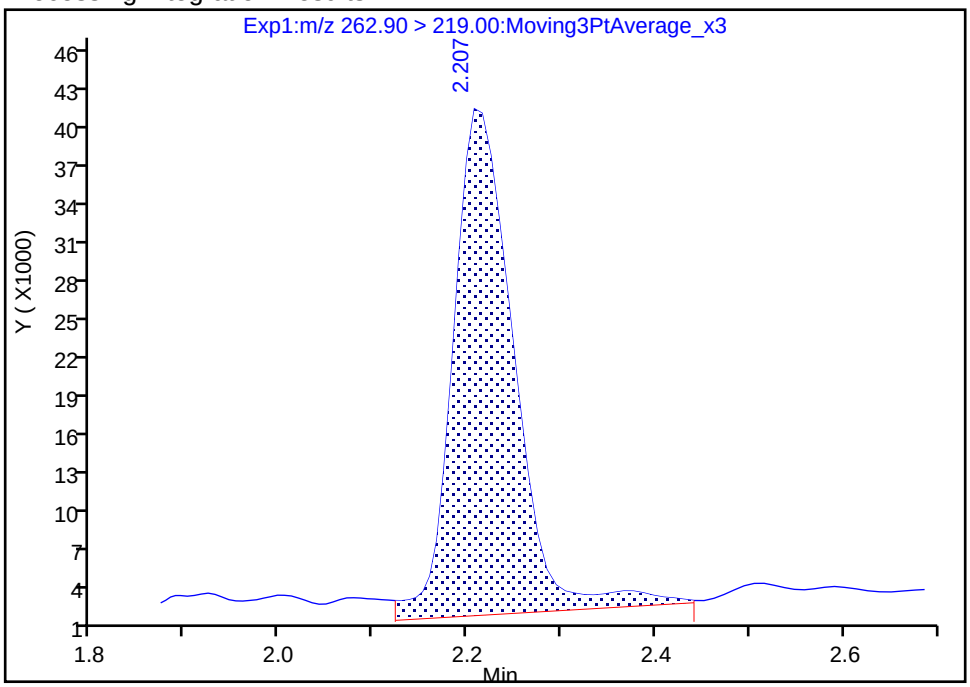
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d				
Injection Date:	10-Sep-2020 10:27:55	Instrument ID:	A9		
Lims ID:	IC L2				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	11	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

3 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

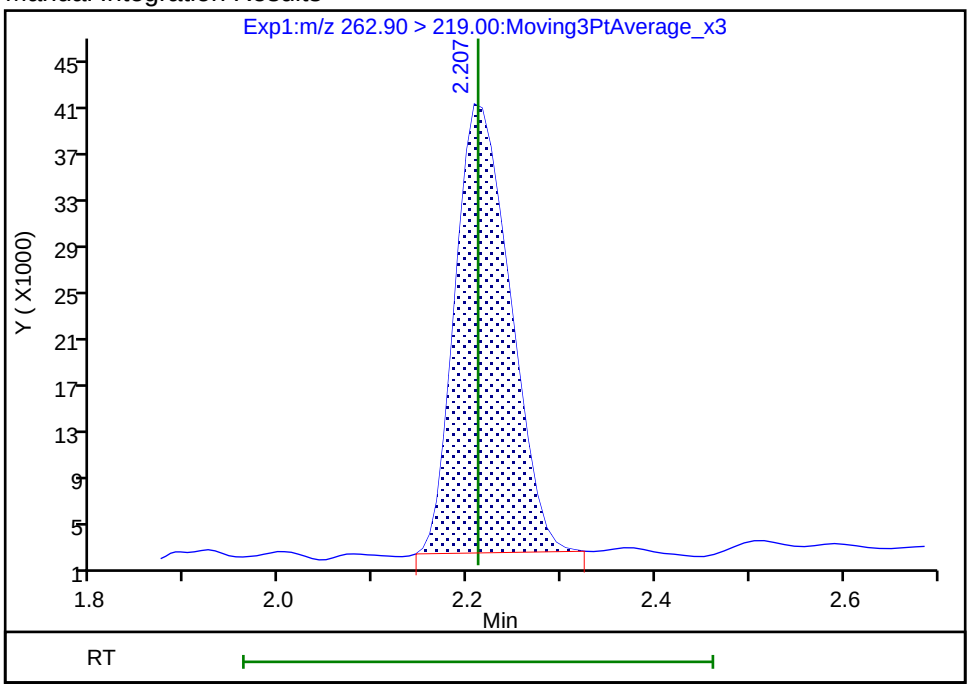
Processing Integration Results

RT: 2.21
Area: 176623
Amount: 0.049817
Amount Units: ng/ml



Manual Integration Results

RT: 2.21
Area: 153662
Amount: 0.051925
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:01:22
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

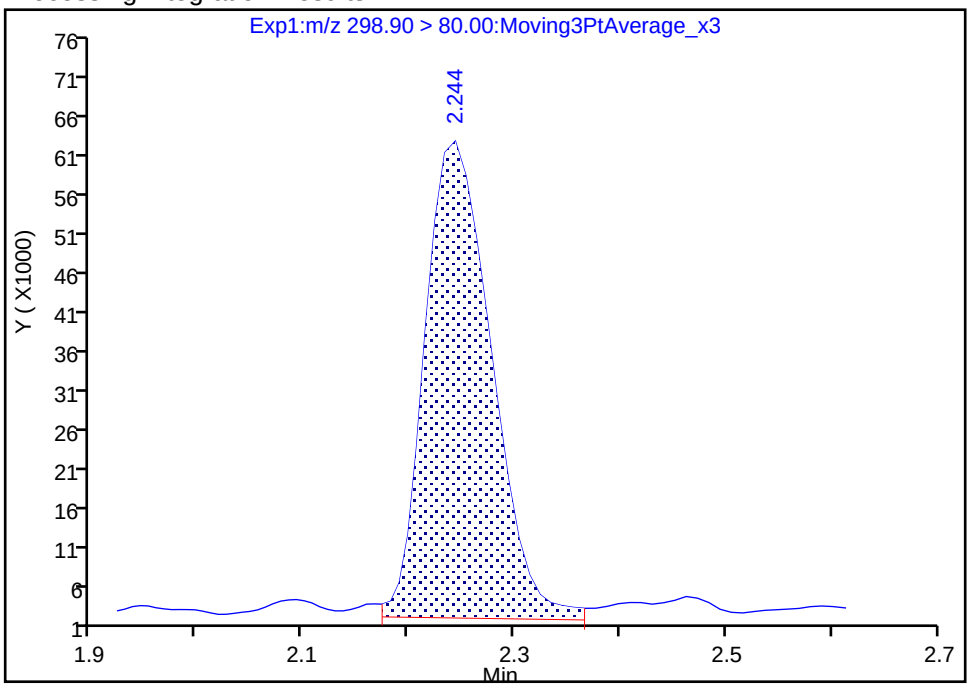
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d				
Injection Date:	10-Sep-2020 10:27:55	Instrument ID:	A9		
Lims ID:	IC L2				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	11	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

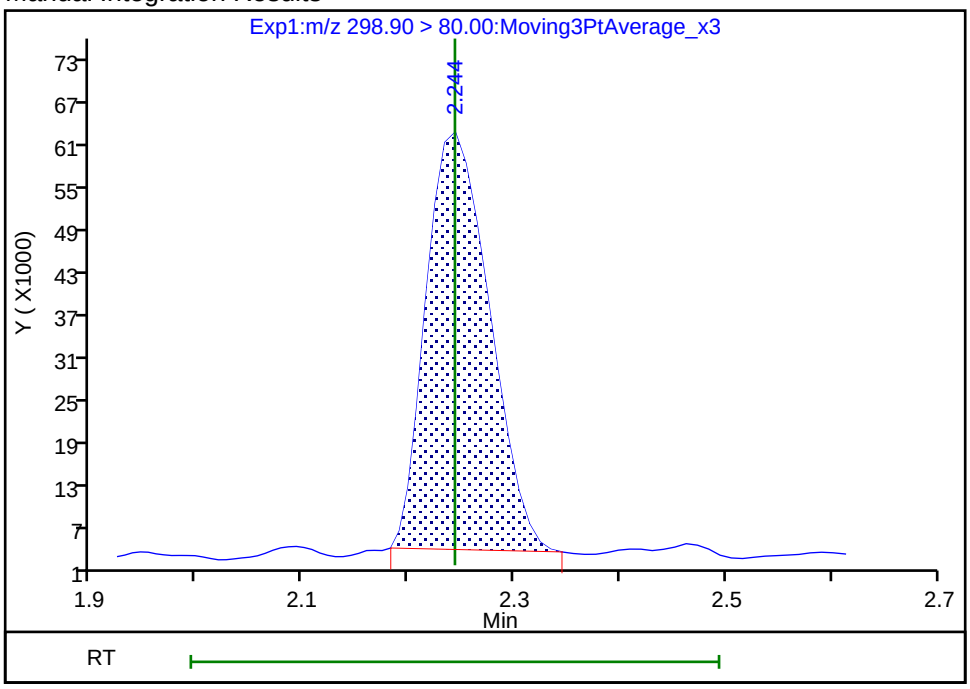
Processing Integration Results

RT: 2.24
Area: 267599
Amount: 0.045869
Amount Units: ng/ml



Manual Integration Results

RT: 2.24
Area: 246180
Amount: 0.043756
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:01:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

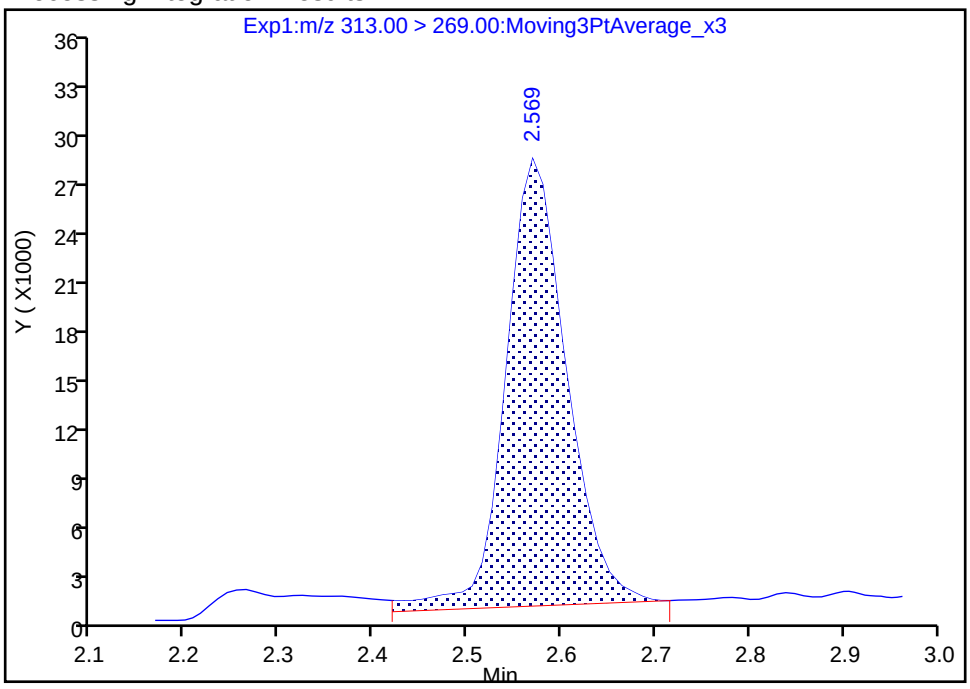
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

11 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

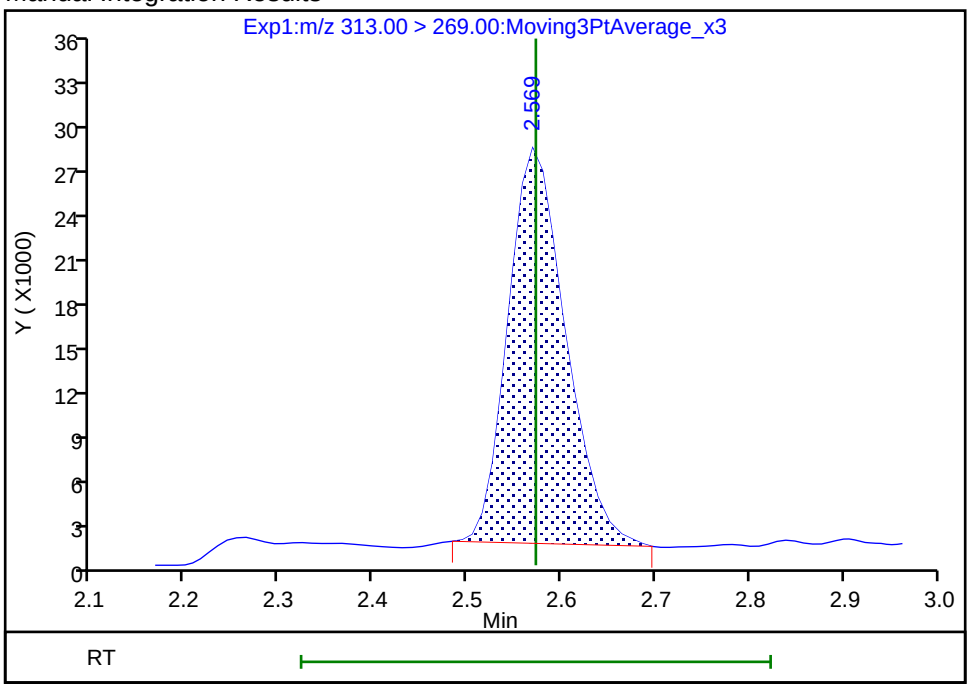
Processing Integration Results

RT: 2.57
Area: 122335
Amount: 0.052738
Amount Units: ng/ml



Manual Integration Results

RT: 2.57
Area: 112791
Amount: 0.050555
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:02:05
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

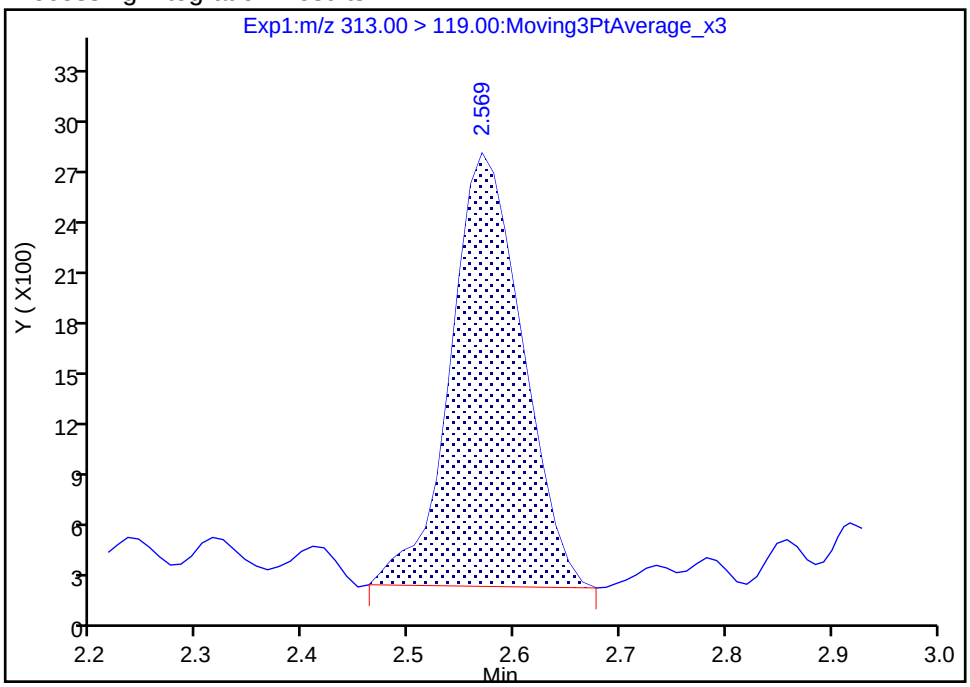
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

11 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

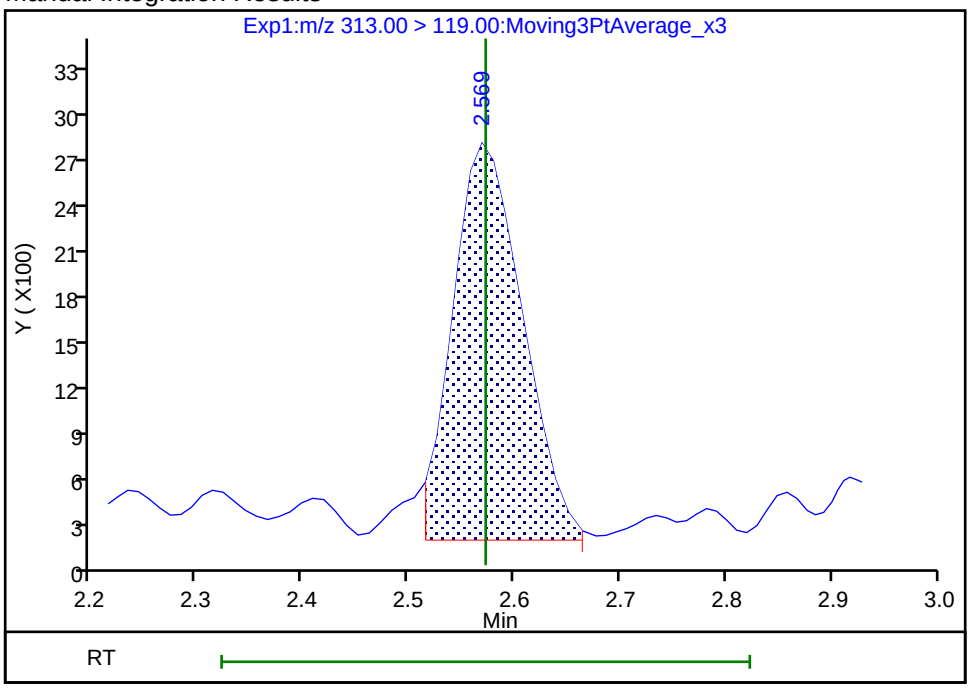
Processing Integration Results

RT: 2.57
Area: 12034
Amount: 0.052738
Amount Units: ng/ml



Manual Integration Results

RT: 2.57
Area: 11801
Amount: 0.050555
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:02:48
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

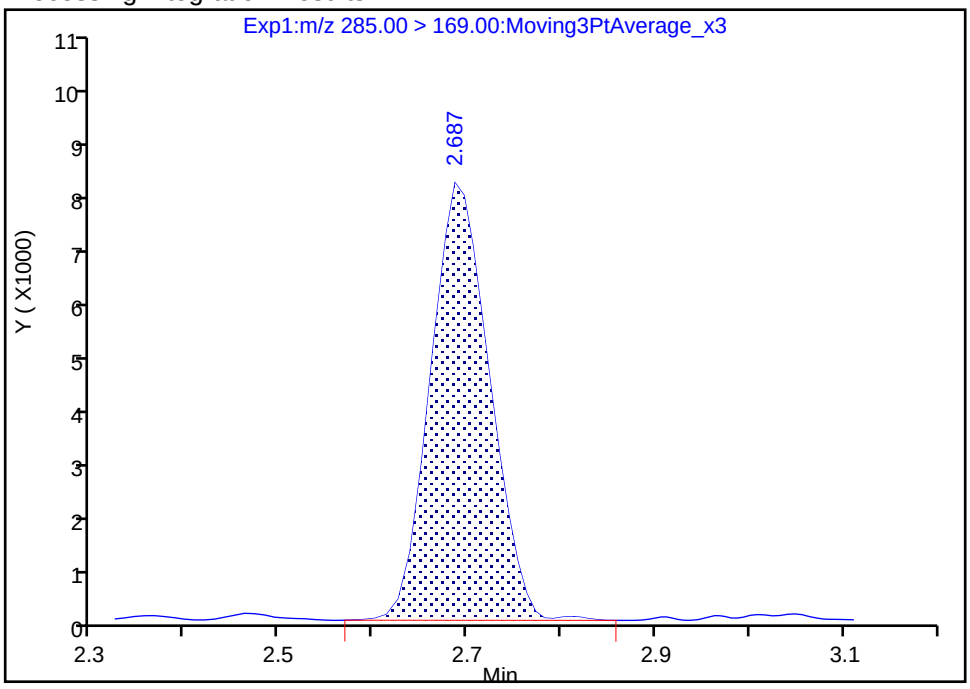
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

14 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

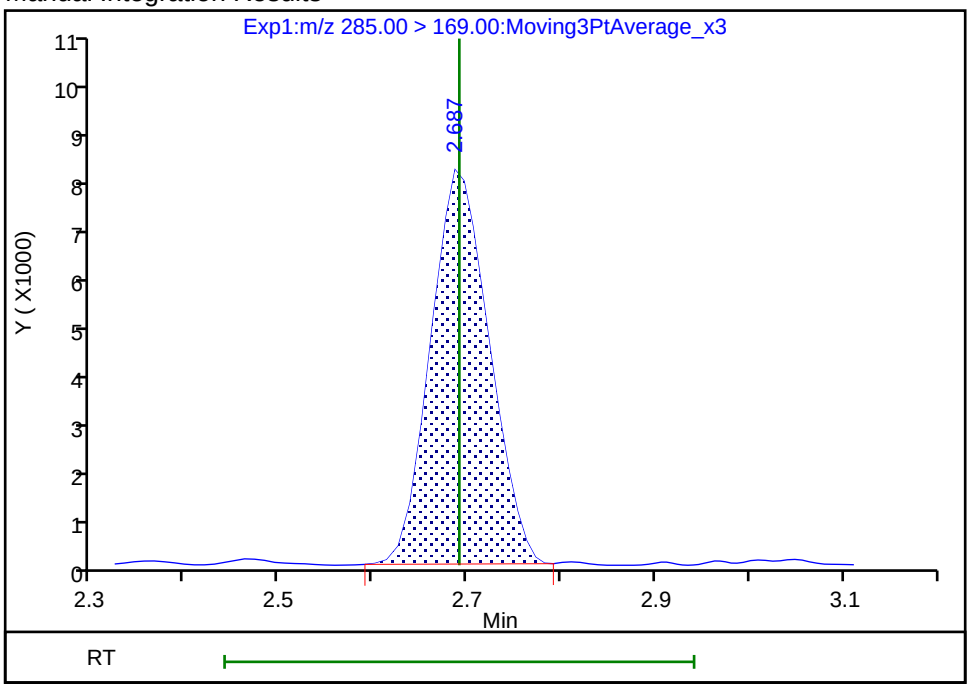
Processing Integration Results

RT: 2.69
Area: 34226
Amount: 0.048495
Amount Units: ng/ml



Manual Integration Results

RT: 2.69
Area: 33818
Amount: 0.046816
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:03:37
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

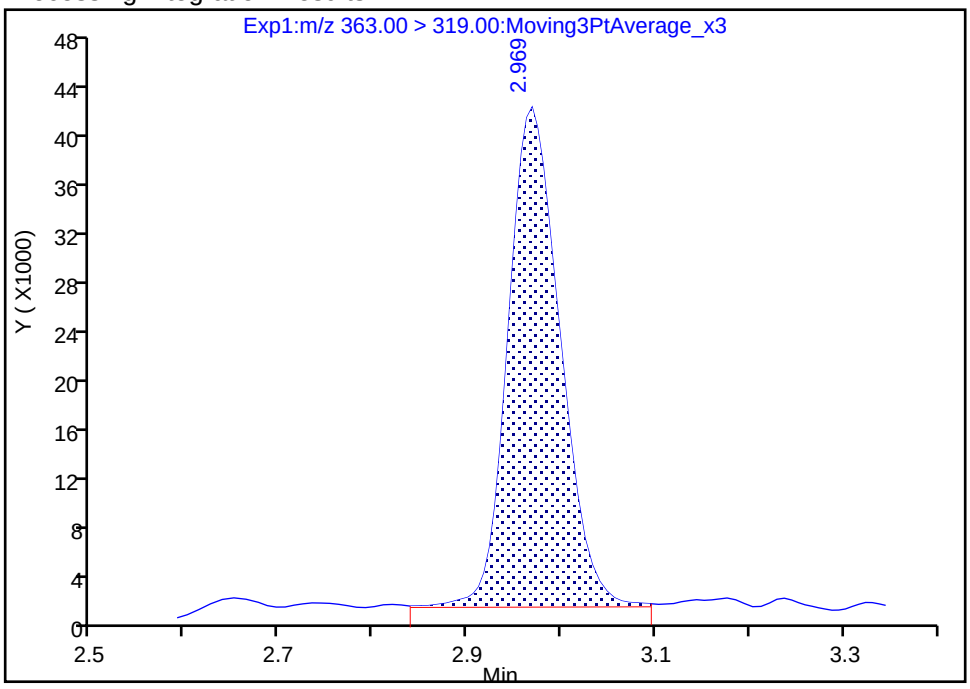
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d				
Injection Date:	10-Sep-2020 10:27:55	Instrument ID:	A9		
Lims ID:	IC L2				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	11	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

18 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

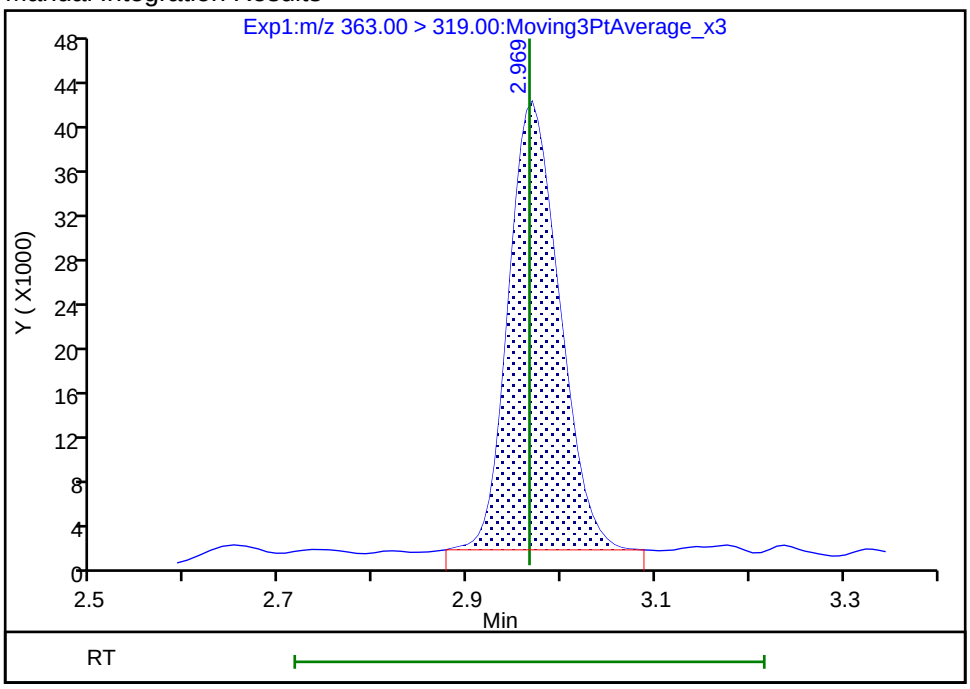
Processing Integration Results

RT: 2.97
Area: 156949
Amount: 0.051975
Amount Units: ng/ml



Manual Integration Results

RT: 2.97
Area: 152546
Amount: 0.053053
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:04:01
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

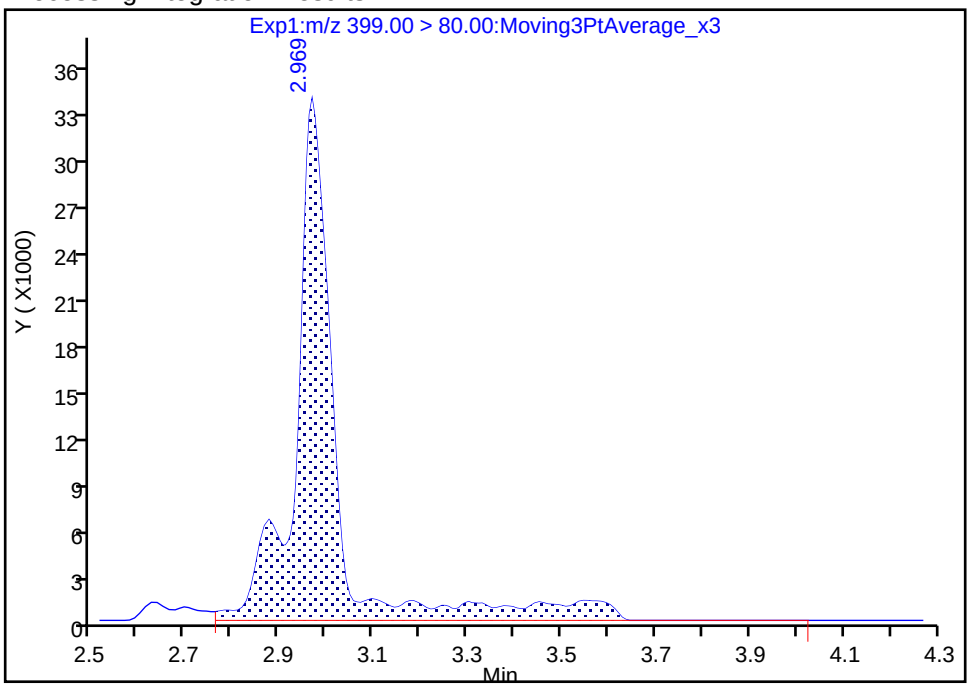
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

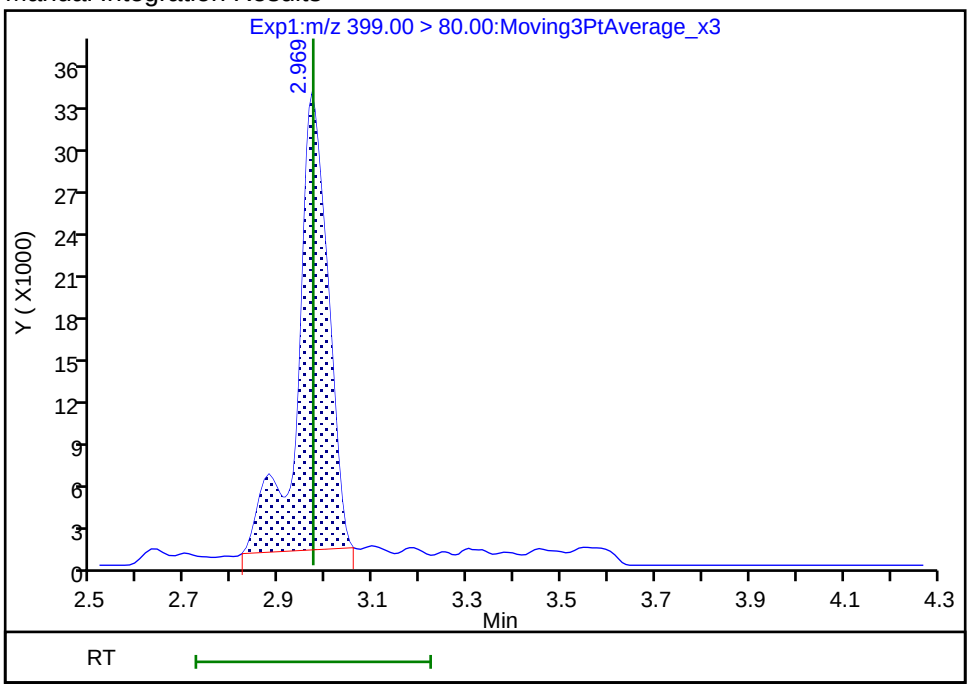
Processing Integration Results

RT: 2.97
Area: 196621
Amount: 0.049380
Amount Units: ng/ml



Manual Integration Results

RT: 2.97
Area: 145334
Amount: 0.045562
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:04:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

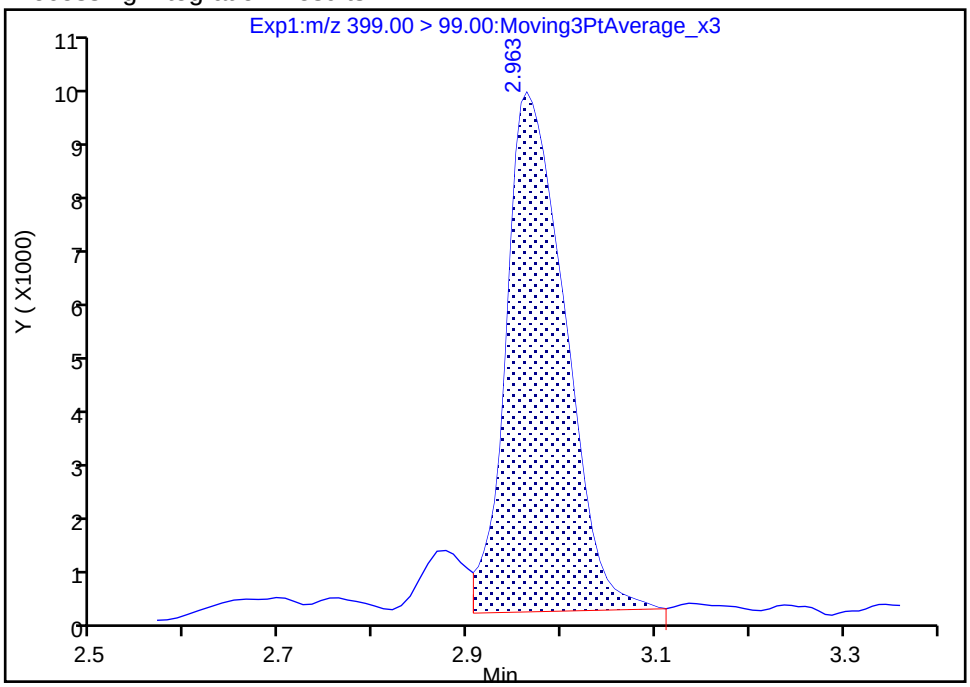
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

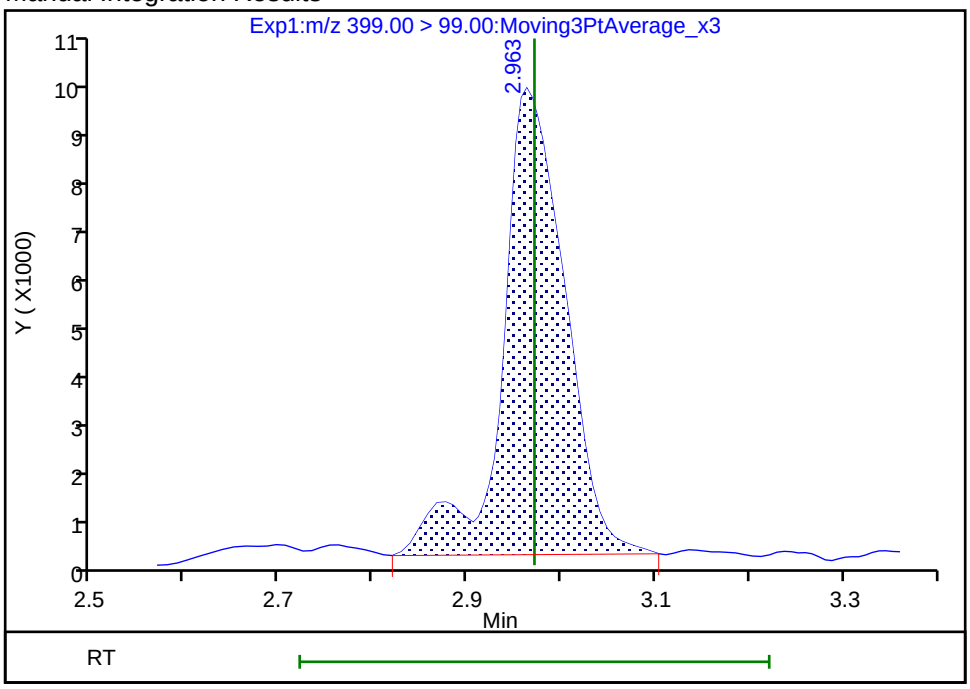
Processing Integration Results

RT: 2.96
Area: 42458
Amount: 0.049380
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 45392
Amount: 0.045562
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:05:03
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

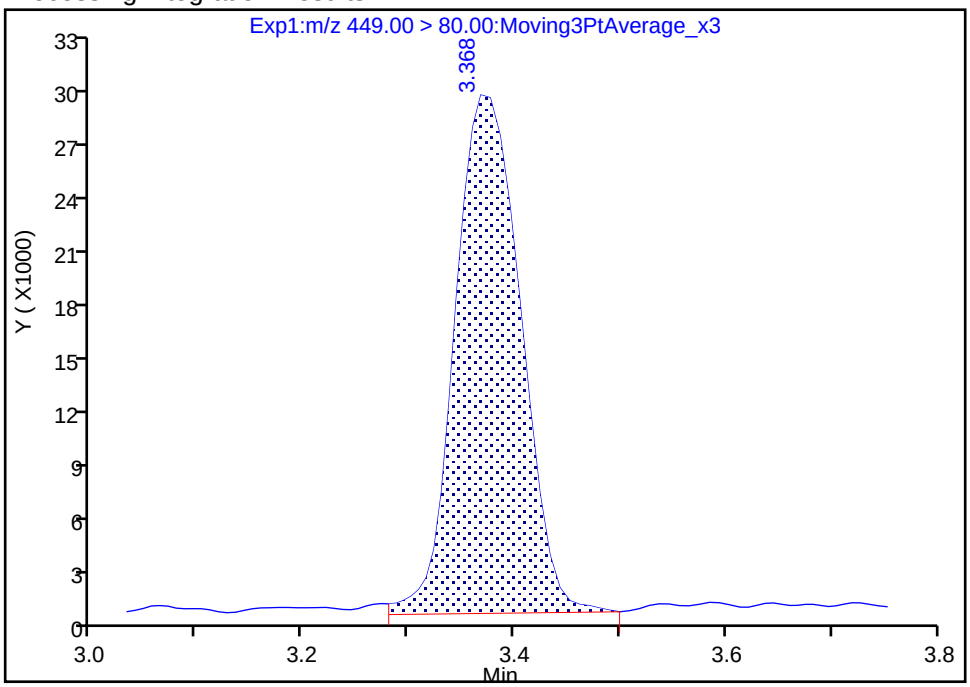
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

23 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

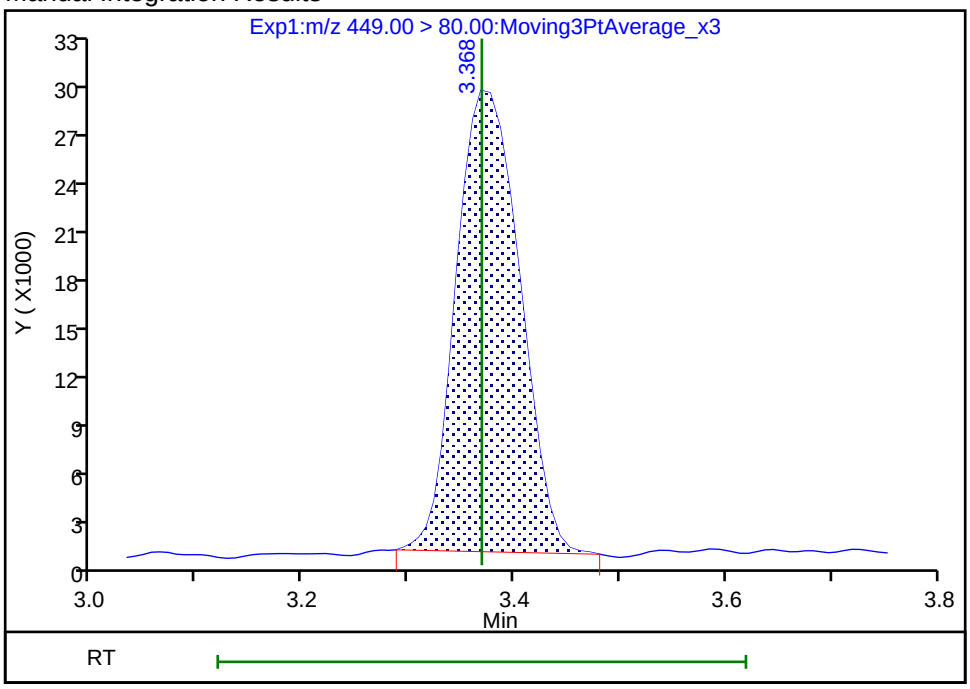
Processing Integration Results

RT: 3.37
Area: 125879
Amount: 0.048479
Amount Units: ng/ml



Manual Integration Results

RT: 3.37
Area: 120618
Amount: 0.044034
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:05:35
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

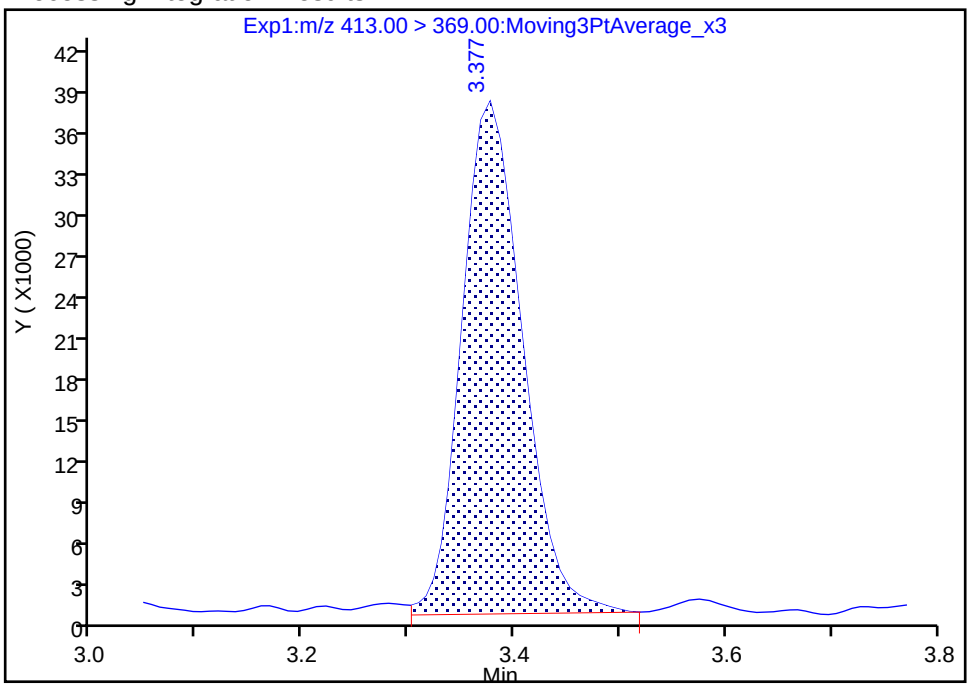
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

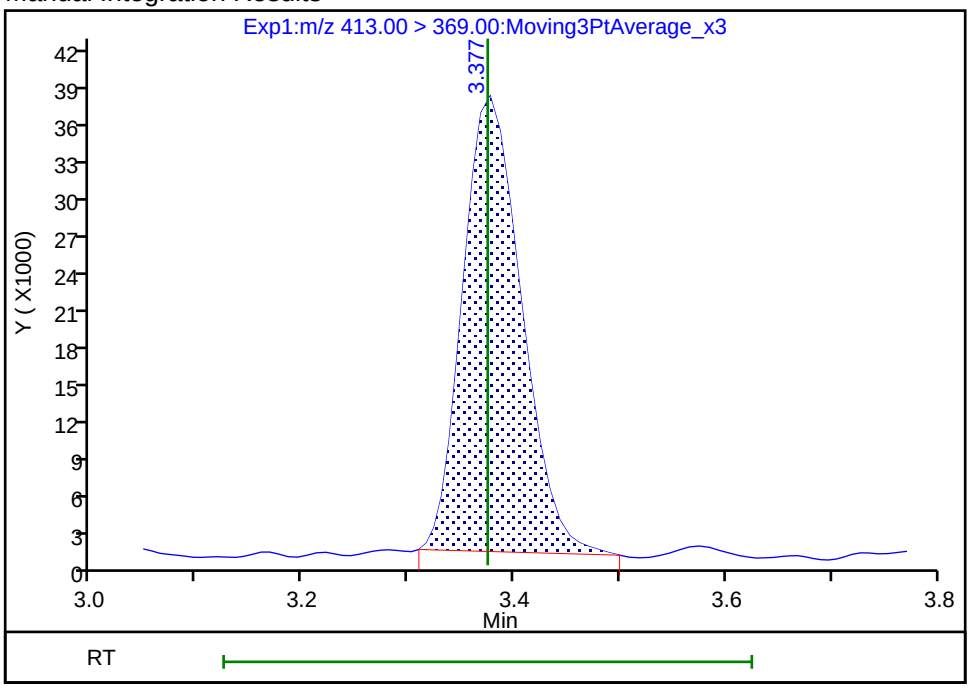
Processing Integration Results

RT: 3.38
Area: 149062
Amount: 0.047576
Amount Units: ng/ml



Manual Integration Results

RT: 3.38
Area: 142372
Amount: 0.052599
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:05:59
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

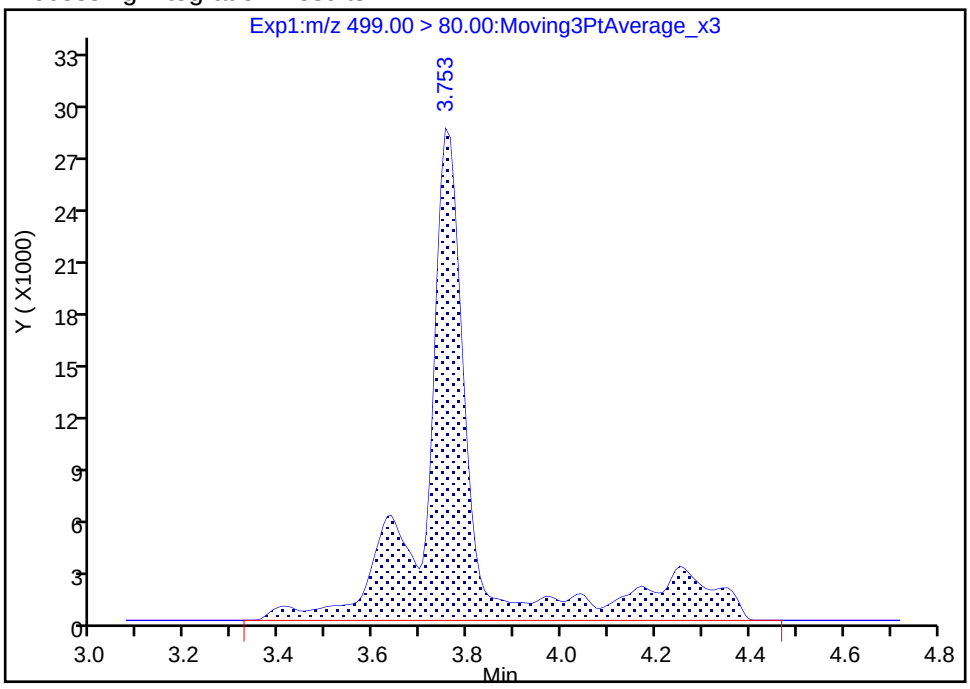
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

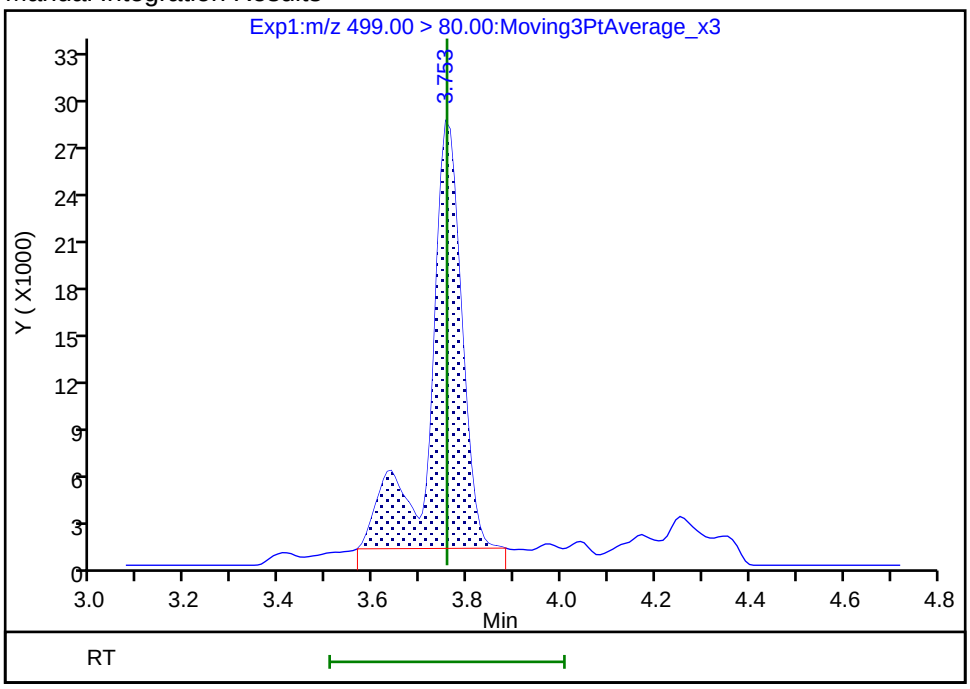
Processing Integration Results

RT: 3.75
Area: 205274
Amount: 0.053886
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 129682
Amount: 0.042096
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:06:28
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

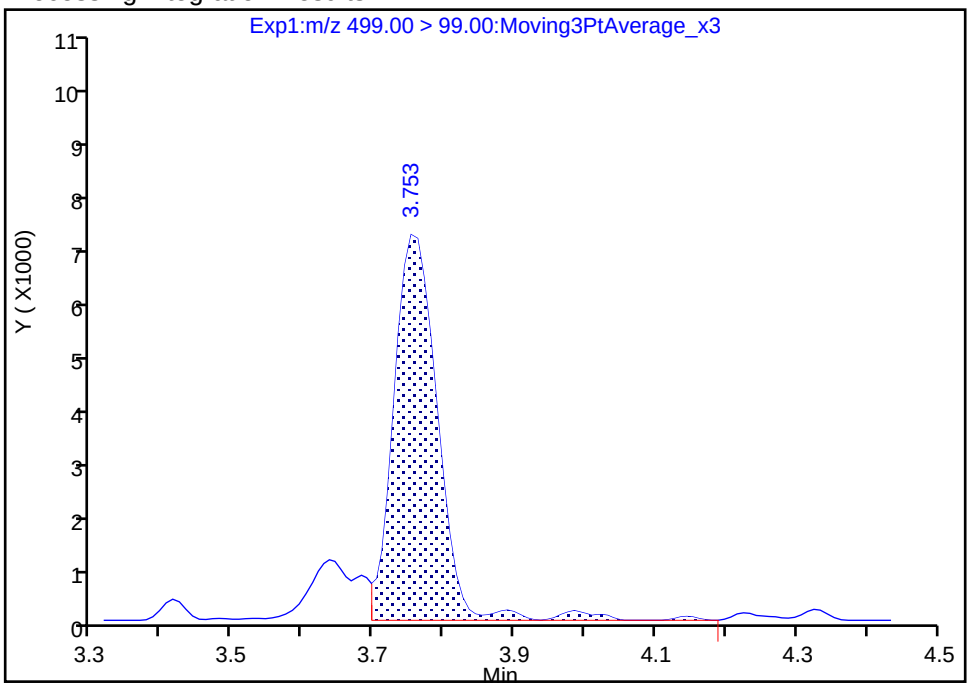
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

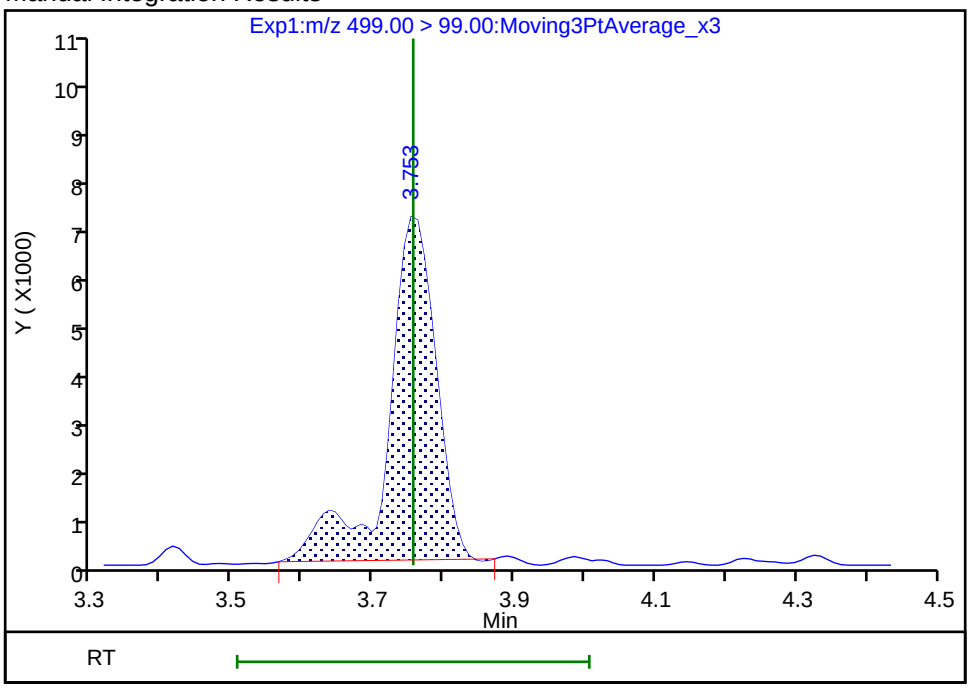
Processing Integration Results

RT: 3.75
Area: 30833
Amount: 0.053886
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 33146
Amount: 0.042096
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:06:45
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

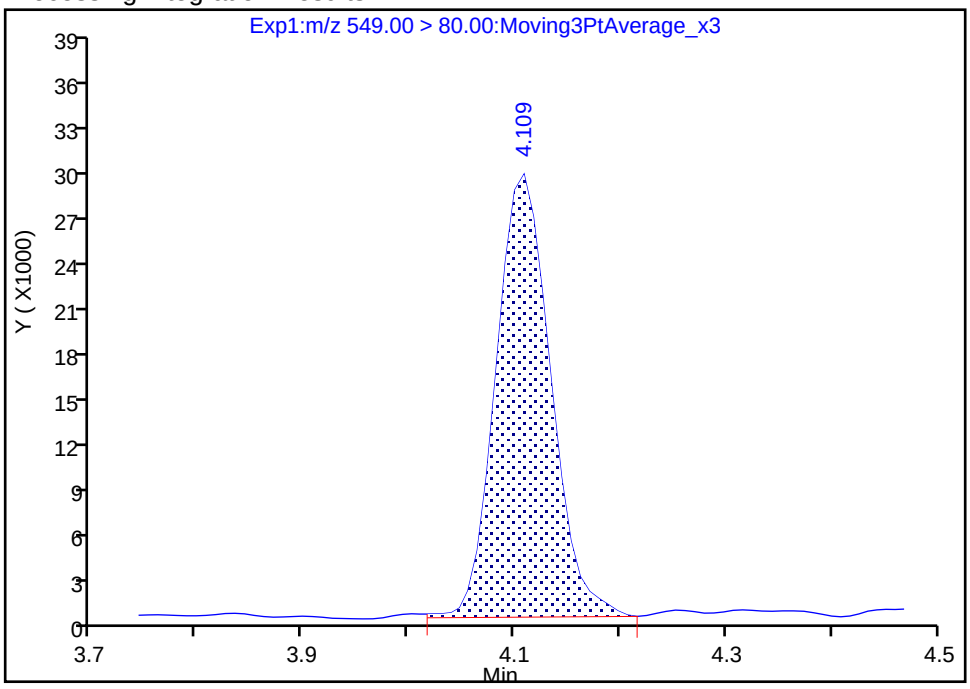
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

35 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 1

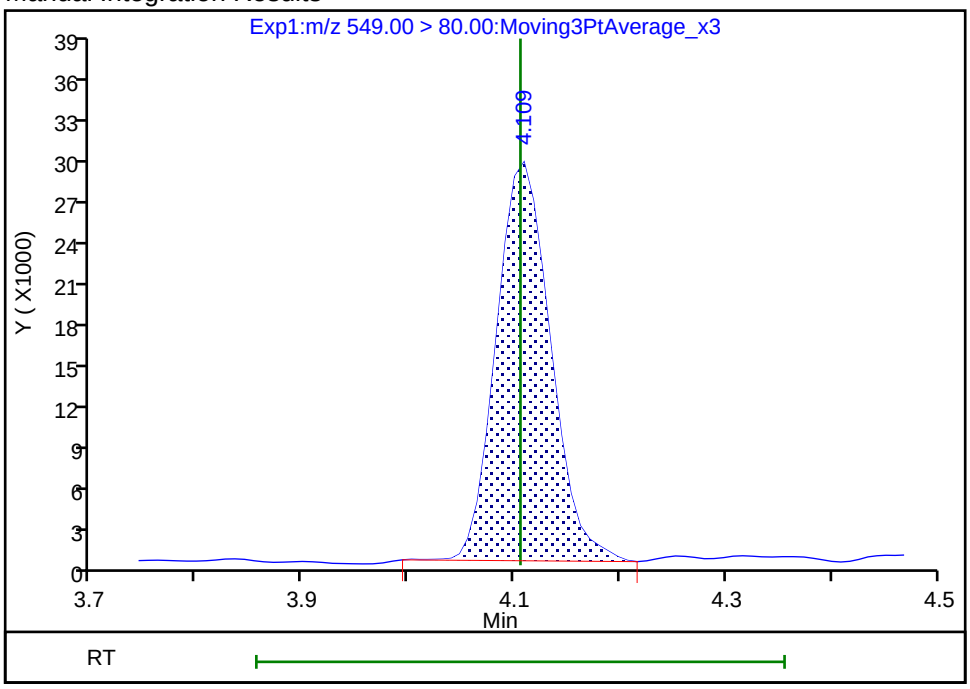
Processing Integration Results

RT: 4.11
Area: 106542
Amount: 0.049025
Amount Units: ng/ml



Manual Integration Results

RT: 4.11
Area: 105305
Amount: 0.046819
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:07:46
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

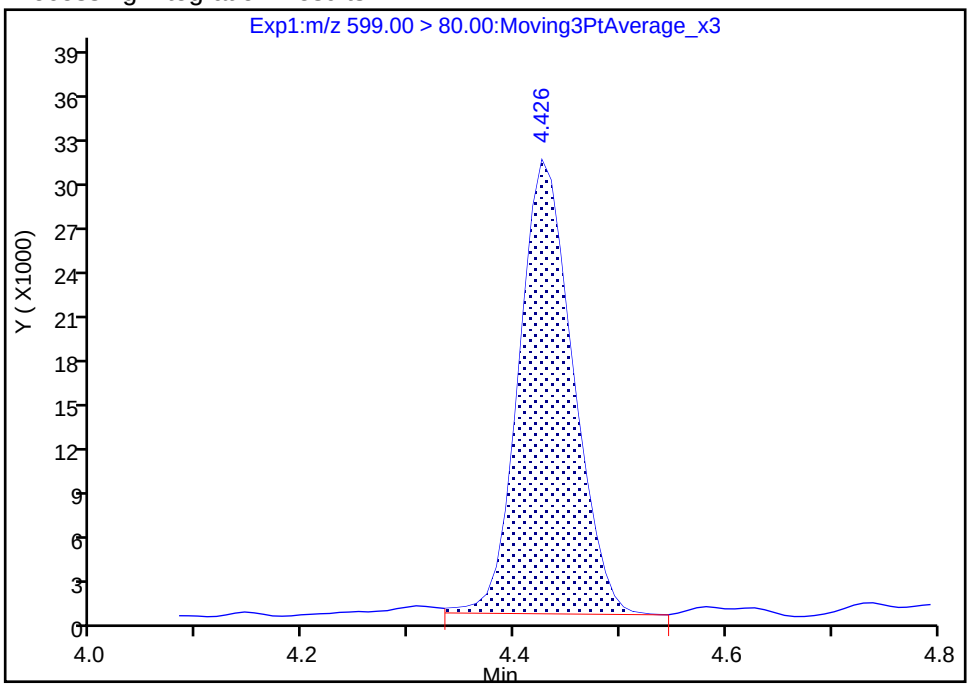
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

42 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

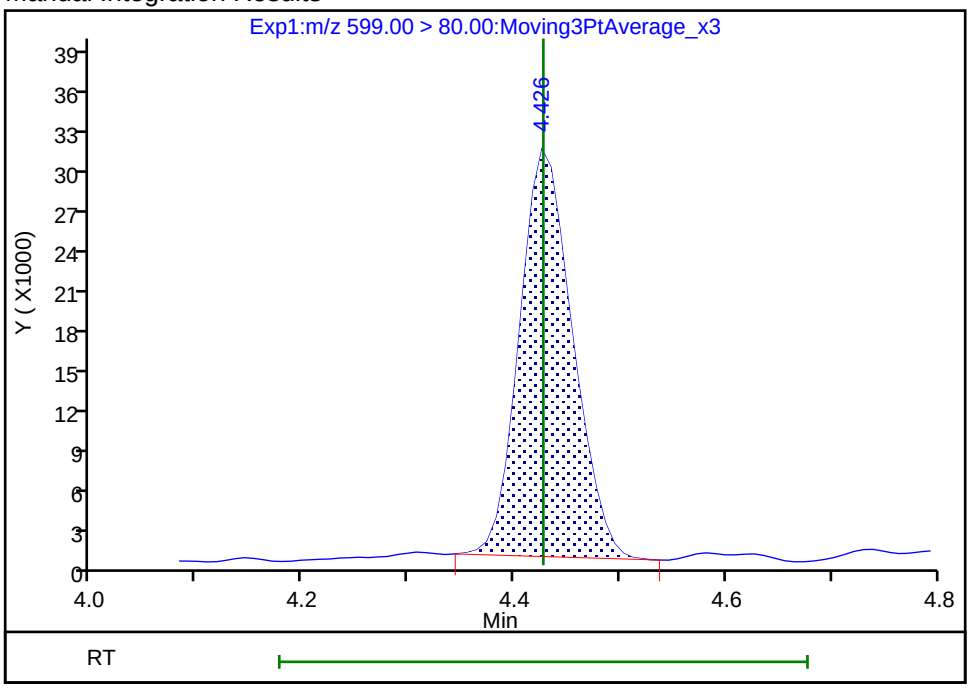
Processing Integration Results

RT: 4.43
Area: 109114
Amount: 0.046343
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 106796
Amount: 0.042442
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:09:25
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

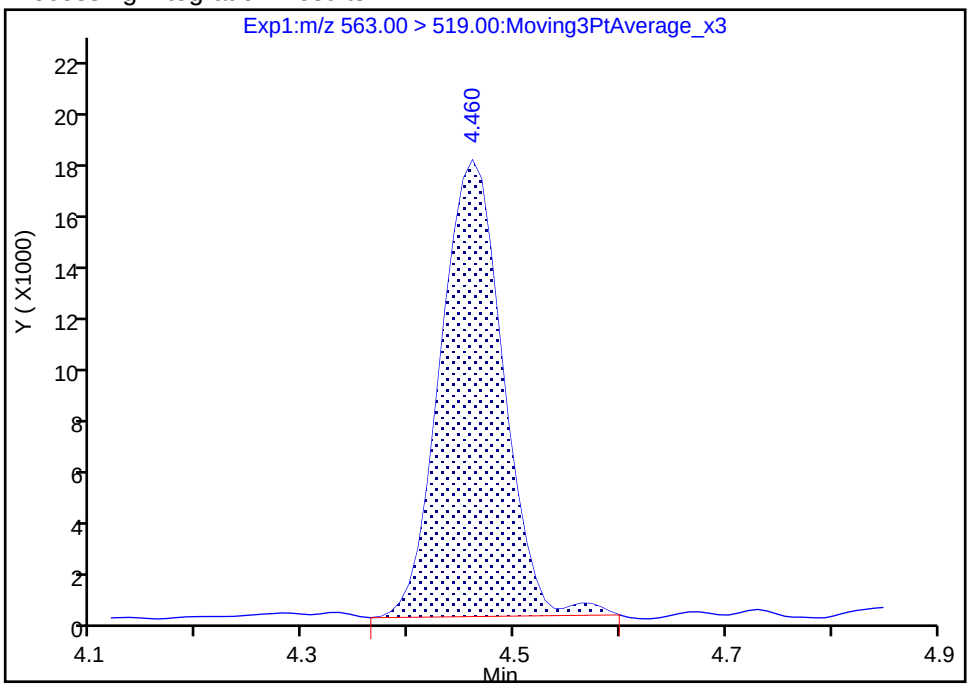
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d				
Injection Date:	10-Sep-2020 10:27:55	Instrument ID:	A9		
Lims ID:	IC L2				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	11	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

43 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

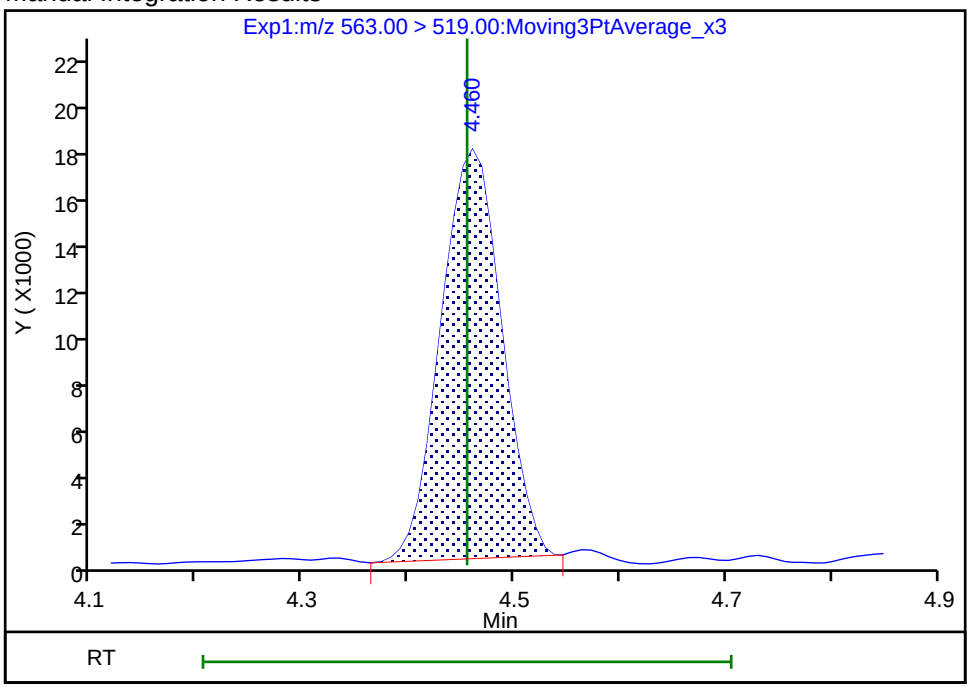
Processing Integration Results

RT: 4.46
Area: 72197
Amount: 0.052202
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 69809
Amount: 0.047657
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:09:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

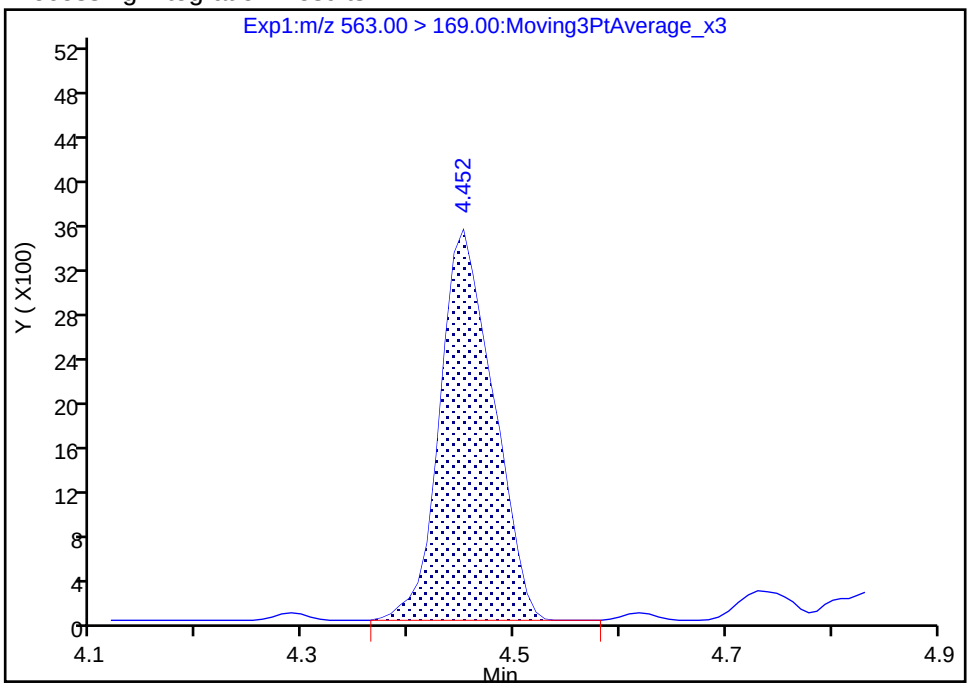
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

43 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

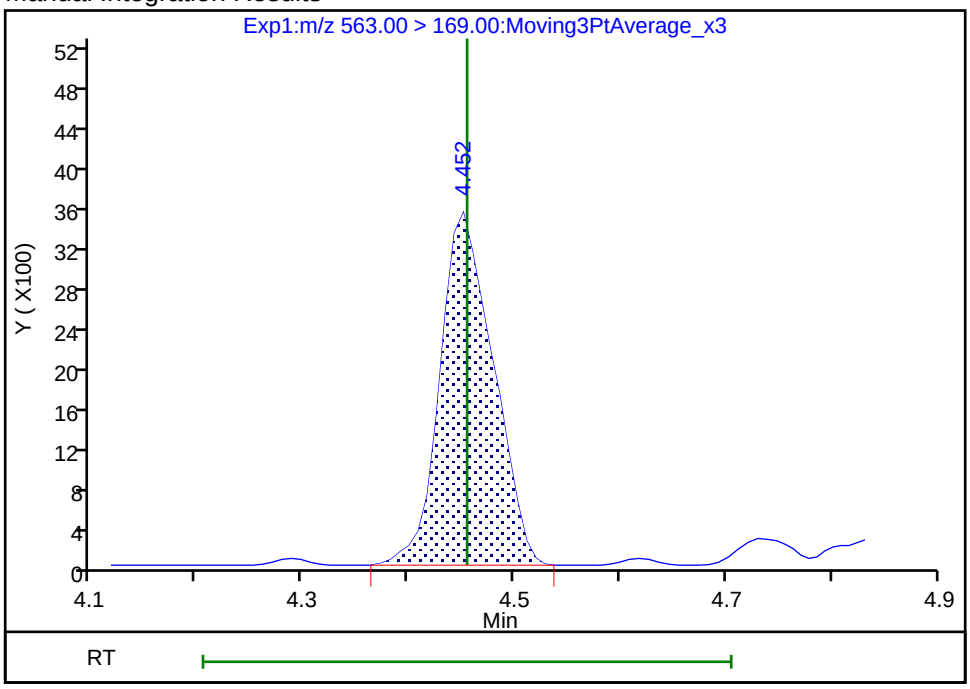
Processing Integration Results

RT: 4.45
Area: 12386
Amount: 0.052202
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 12386
Amount: 0.047657
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:10:09
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

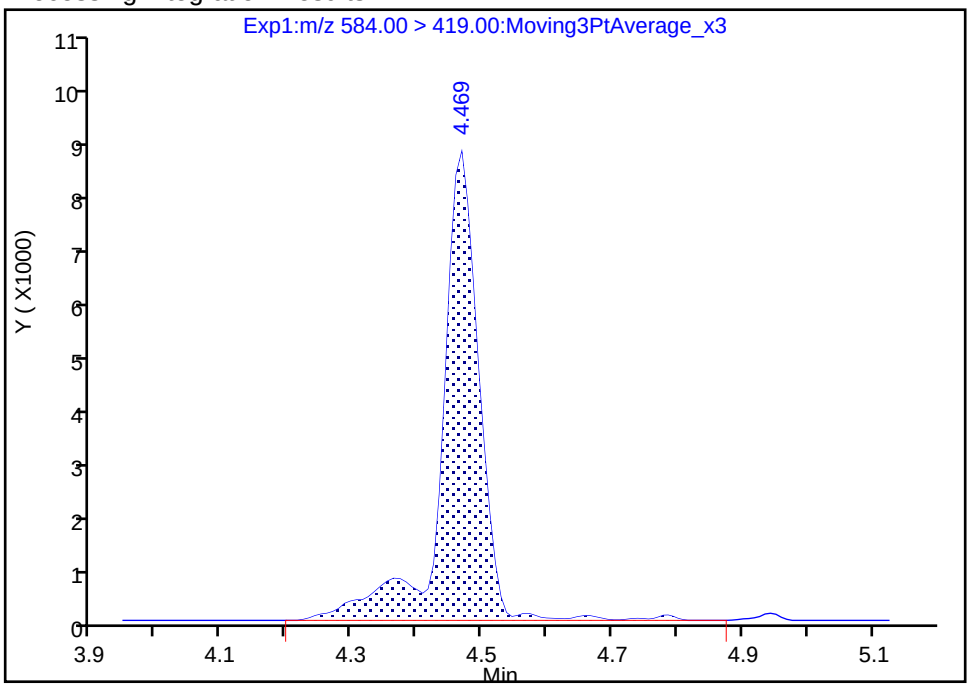
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d				
Injection Date:	10-Sep-2020 10:27:55	Instrument ID:	A9		
Lims ID:	IC L2				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	11	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

44 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

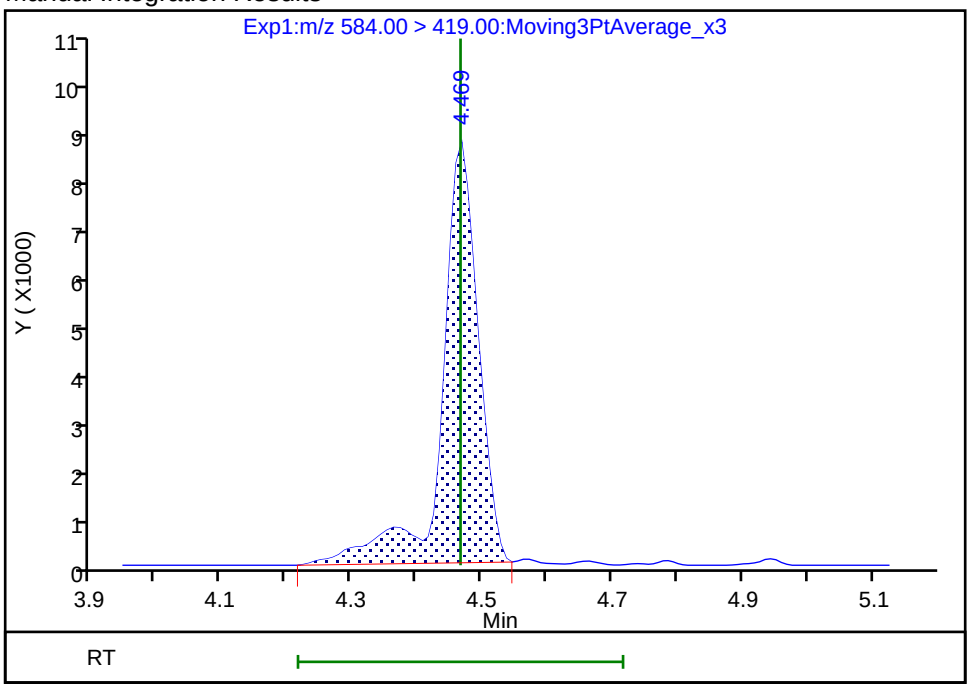
Processing Integration Results

RT: 4.47
Area: 35544
Amount: 0.049753
Amount Units: ng/ml



Manual Integration Results

RT: 4.47
Area: 34070
Amount: 0.046097
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:10:47
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

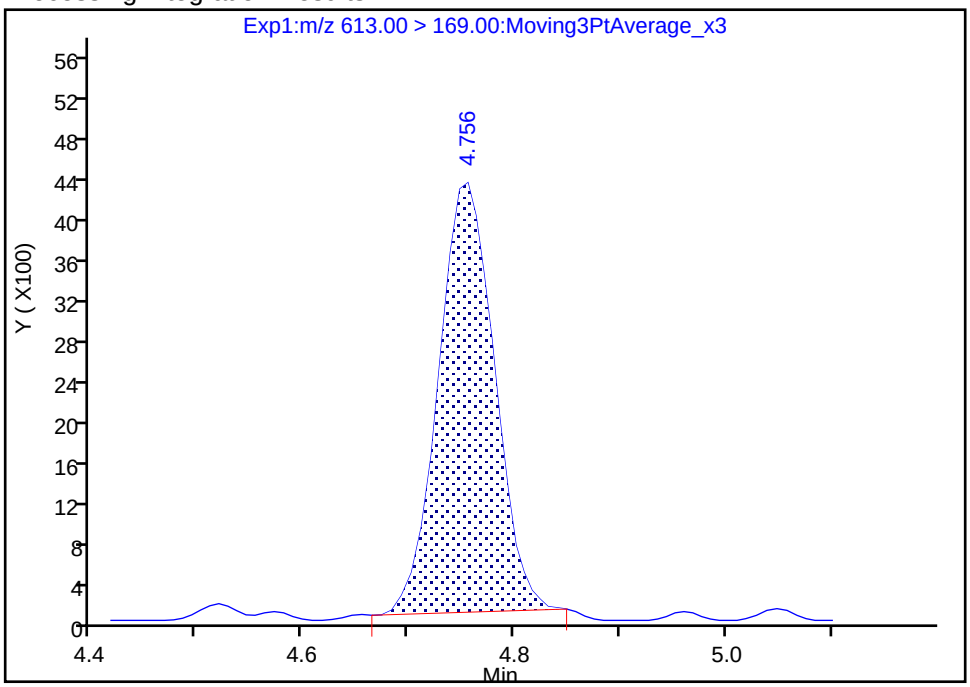
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_017.d
Injection Date: 10-Sep-2020 10:27:55 Instrument ID: A9
Lims ID: IC L2
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

52 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

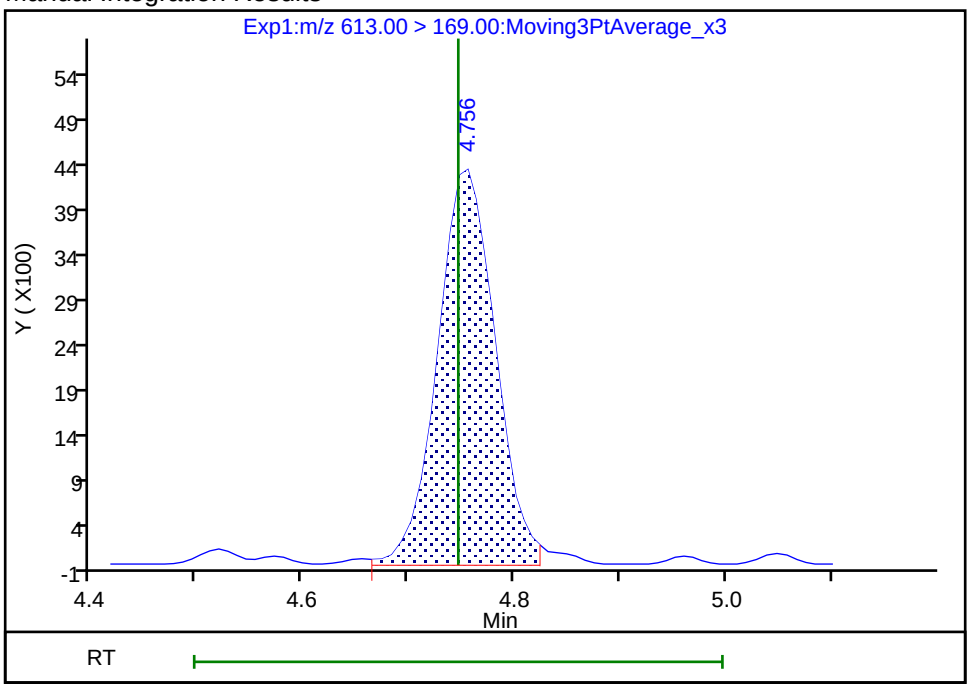
Processing Integration Results

RT: 4.76
Area: 15478
Amount: 0.053270
Amount Units: ng/ml



Manual Integration Results

RT: 4.76
Area: 16285
Amount: 0.051156
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:11:54
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_018.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Sep-2020 10:37:16 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD3_19
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:14:27 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 11:19:37
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.909	1.901	0.008	0.565	8574576	2.48		99.3	3351	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.909	1.904	0.005	1.000	755326	0.2521		101	54.1	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.215	2.211	0.004	1.000	725976	0.2348		93.9	59.2	
D 4 13C5 PFPeA										
267.90 > 223.00	2.215	2.211	0.004	0.656	7596317	2.61		104	3833	
D 6 13C3 PFBS										
301.90 > 80.00	2.244	2.241	0.003	0.664	13144085	2.28		98.3	2814	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.244	2.244	0.0	1.000	1295442	0.2297	Target=3.10	104	94.2	M
298.90 > 99.00	2.254	2.244	0.010	1.004	396090		3.27(1.55-4.65)	104	104	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.537	2.535	0.002	1.000	256695	0.2236		95.8	1272	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.537	2.533	0.004	0.751	1355074	2.37		102	859	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.580	2.573	0.007	1.000	551503	0.2442	Target=9.68	97.7	81.5	
313.00 > 119.00	2.580	2.573	0.007	1.000	54217		10.17(4.84-14.52)	97.7	39.5	
D 10 13C2 PFHxA										
315.00 > 270.00	2.580	2.573	0.007	0.763	6768409	2.50		100.0	2945	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.590	2.587	0.003	1.154	532432	0.2345	Target=2.01	100	134	
349.00 > 99.00	2.590	2.587	0.003	1.154	260592		2.04(1.00-3.01)	100	305	
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.697	2.691	0.006	1.000	165835	0.2282		91.3	829	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.697	2.692	0.005	0.798	4590213	2.47		98.8	4176	
D 15 13C4 PFHpA										
367.00 > 322.00	2.970	2.965	0.005	0.879	6639108	2.52		101	2577	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.970	2.966	0.004	1.000	732378	0.2487	Target=3.74	99.5	142	
363.00 > 169.00	2.970	2.966	0.004	1.000	192659		3.80(1.87-5.61)	99.5	202	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.975	2.971	0.004	1.000	727417	0.2165	Target=3.29	95.2	147	
399.00 > 99.00	2.975	2.971	0.004	1.000	212871		3.42(1.65-4.94)	95.2	193	M
D 17 18O2 PFHxS										
403.00 > 84.00	2.975	2.969	0.006	0.880	6737106	2.45		103	3283	
19 DONA										
377.00 > 251.00	3.018	3.017	0.001	0.802	1238833	0.2377	Target=1.80	101	2280	
377.00 > 85.00	3.018	3.017	0.001	0.802	650367		1.90(0.90-2.70)	101	983	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.362	3.352	0.010	0.995	1183789	2.40		101	1251	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.362	3.353	0.009	1.000	171579	0.2233		94.2	257	
$ 21 13C8 PFOA										
421.00 > 376.00	3.362	3.362	0.0	0.995	5079092	2.45		100	6608	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.371	3.369	0.002	0.895	610012	0.2296	Target=3.65	96.5	210	
449.00 > 99.00	3.371	3.369	0.002	0.895	169525		3.60(1.83-5.48)	96.5	357	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.379	3.375	0.004	1.000	649485	0.2524	Target=2.37	101	153	
413.00 > 169.00	3.379	3.375	0.004	1.000	274516		2.37(1.19-3.56)	101	336	
* 25 13C2 PFOA										
415.00 > 370.00	3.379	3.376	0.003		6396362	2.50			4306	
D 26 13C4 PFOA										
417.00 > 372.00	3.379	3.376	0.003	1.000	5966056	2.42		96.6	3242	
$ 27 13C8 PFOS										
507.00 > 99.00	3.756	3.748	0.008	1.111	1572962	2.42		101	1733	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.756	0.009	1.000	654930	0.2191	Target=4.12	94.5	113	M
499.00 > 99.00	3.765	3.756	0.009	1.000	163427		4.01(2.06-6.17)	94.5	435	
D 31 13C4 PFOS										
503.00 > 80.00	3.765	3.756	0.009	1.114	6869985	2.39		100	1600	
30 Perfluorononanoic acid										
463.00 > 419.00	3.774	3.770	0.004	1.000	534880	0.2566	Target=4.21	103	342	
463.00 > 169.00	3.774	3.770	0.004	1.000	116920		4.57(2.11-6.32)	103	285	
D 29 13C5 PFNA										
468.00 > 423.00	3.774	3.767	0.007	1.117	5235235	2.44		97.7	4583	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.959	3.956	0.003	1.052	418832	0.2322		99.7	1122	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.086	4.086	0.0	1.000	959339	0.2561		102	1447	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C8 FOSA										
506.00 > 78.00	4.086	4.086	0.0	1.209	3366493	2.49		99.7	3012	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.113	4.106	0.007	1.093	540009	0.2475	Target=5.56	103	324	
549.00 > 99.00	4.113	4.106	0.007	1.093	97827		5.52(2.78-8.34)	103	462	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.140	4.132	0.008	1.000	725683	0.2615	Target=14.33	105	519	
513.00 > 169.00	4.131	4.132	-0.001	0.998	46171		15.72(7.16-21.49)	105	144	
D 33 13C2 PFDA										
515.00 > 470.00	4.140	4.130	0.010	1.225	6950885	2.56		102	5052	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.140	4.135	0.005	1.000	178280	0.2161		90.2	945	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.140	4.133	0.007	1.225	1533540	2.54		106	1175	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.311	4.299	0.012	1.002	254355	0.2564		103	22.7	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.295	0.007	1.273	3265971	2.42		96.6	2392	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.430	4.427	0.003	1.177	577252	0.2365	Target=4.29	98.1	272	
599.00 > 99.00	4.430	4.427	0.003	1.177	138288		4.17(2.15-6.44)	98.1	346	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.465	4.455	0.010	1.000	367263	0.2496	Target=6.74	99.9	514	
563.00 > 169.00	4.456	4.455	0.001	0.998	52662		6.97(3.37-10.11)	99.9	140	
D 46 13C2 PFUnA										
565.00 > 520.00	4.465	4.455	0.010	1.321	5283112	2.52		101	7176	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.465	4.460	0.005	1.321	2347427	2.59		104	1441	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.473	4.467	0.006	1.002	174286	0.2288		91.5	276	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.550	4.546	0.004	1.346	5453120	12.5		100	4567	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.559	4.557	0.002	1.002	106728	0.2345		93.8	254	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.568	4.565	0.003	1.352	1479722	2.43		97.3	212	
50 NMeFOSA										
512.00 > 169.00	4.577	4.569	0.008	1.002	138365	0.2241		89.6	536	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.595	4.588	0.007	1.220	467393	0.2198		93.3	1105	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.726	4.718	0.008	1.399	5688046	12.5		99.6	6043	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.735	4.731	0.004	1.002	107836	0.2384		95.4	243	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.744	4.741	0.003	1.404	1511320	2.39		95.7	996	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
52 Perfluorododecanoic acid										
613.00 > 569.00	4.752	4.747	0.005	1.000	496720	0.2730	Target=6.67	109	661	
613.00 > 169.00	4.759	4.747	0.012	1.002	66415		7.48(3.34-10.01)	109	300	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.752	4.749	0.003	1.002	142130	0.2363		94.5	381	
D 56 13C2 PFDoA										
615.00 > 570.00	4.752	4.747	0.005	1.406	4945538	2.40		96.0	6130	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.775	4.766	0.009	1.153	113753	0.2163		89.7	818	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.989	4.978	0.011	1.325	84857	0.2327	Target=1.02	96.2	125	
699.00 > 99.00	4.989	4.978	0.011	1.325	78318		1.08(0.51-1.53)	96.2	520	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.024	5.013	0.011	1.057	381160	0.2651	Target=4.80	106	1254	
663.00 > 169.00	5.024	5.013	0.011	1.057	75177		5.07(2.40-7.20)	106	278	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.272	5.259	0.013	1.000	62584	0.2549	Target=1.37	102	456	
713.00 > 219.00	5.264	5.259	0.005	0.998	42435		1.47(0.69-2.06)	102	686	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.272	5.258	0.014	1.560	3478825	2.42		96.9	4256	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.720	5.705	0.015	1.000	247697	0.2337	Target=4.63	93.5	669	
813.00 > 169.00	5.720	5.705	0.015	1.000	52916		4.68(2.32-6.95)	93.5	413	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.720	5.703	0.017	1.693	2649042	2.49		99.7	4577	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.153	6.139	0.014	1.076	183768	0.2319	Target=4.01	92.7	602	
913.00 > 169.00	6.153	6.139	0.014	1.076	46477		3.95(2.01-6.02)	92.7	402	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00019 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:14:31 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_018.d

Injection Date: 10-Sep-2020 10:37:16 Instrument ID: A9

Lims ID: IC L3

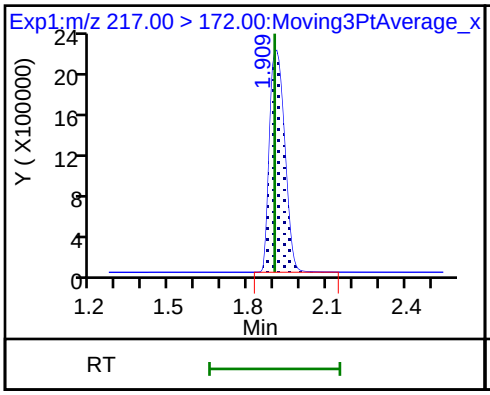
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 12 Worklist Smp#: 4

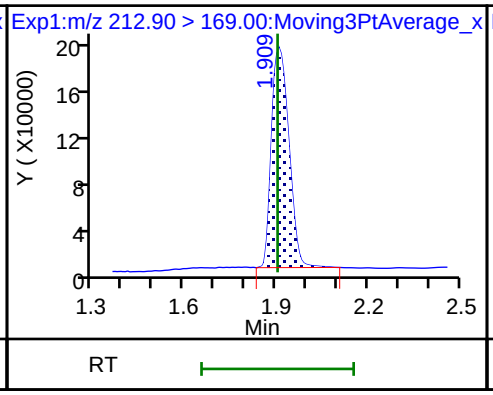
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

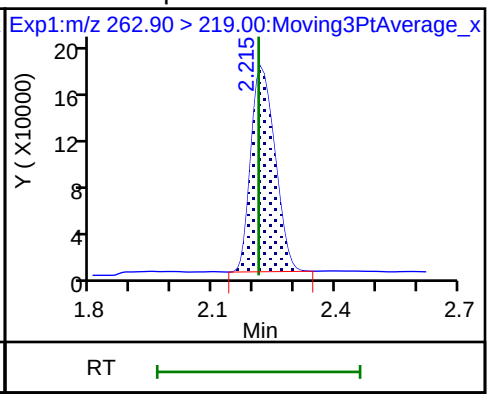
D 1 13C4 PFBA



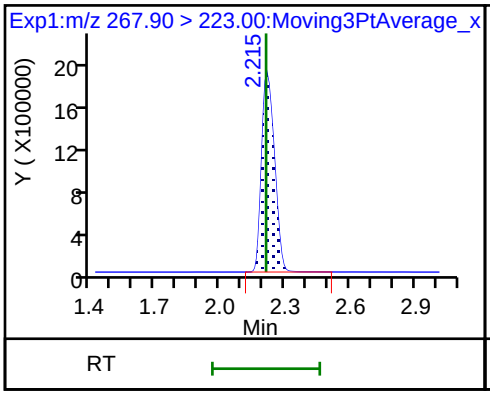
2 Perfluorobutanoic acid



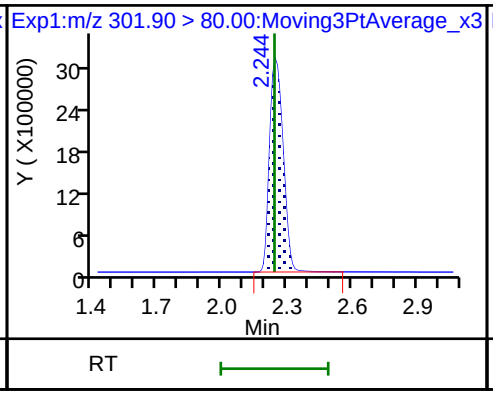
3 Perfluoropentanoic acid



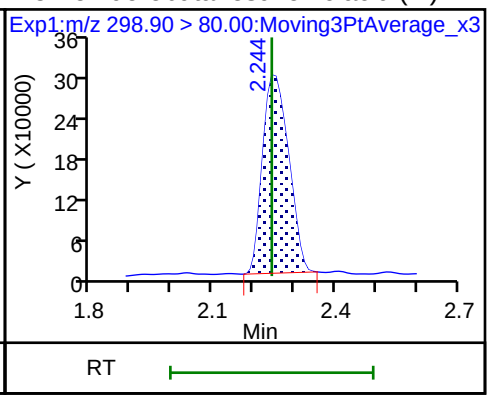
D 4 13C5 PFPeA



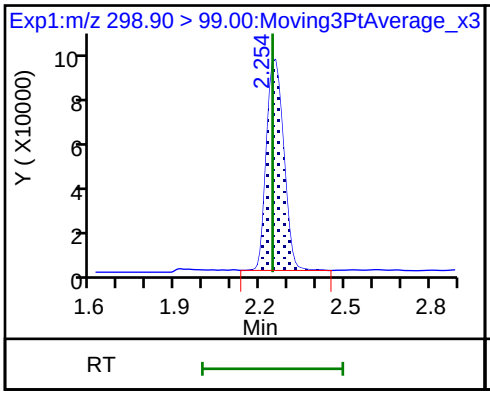
D 6 13C3 PFBS



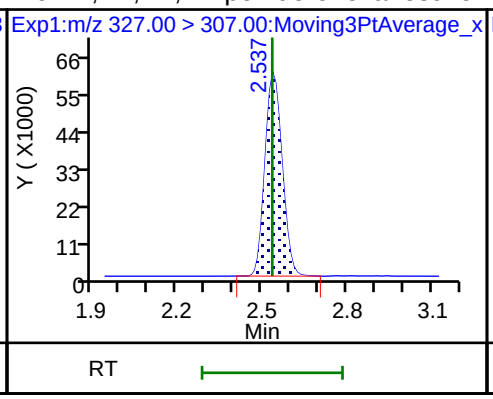
5 Perfluorobutanesulfonic acid (M)



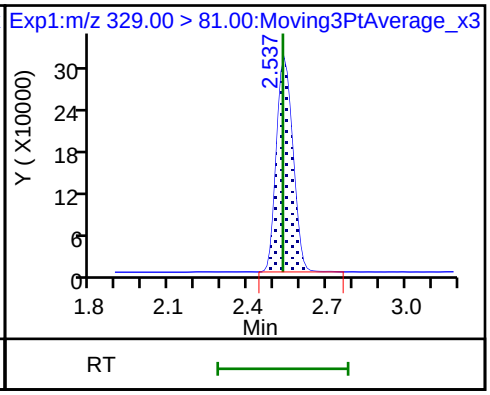
5 Perfluorobutanesulfonic acid



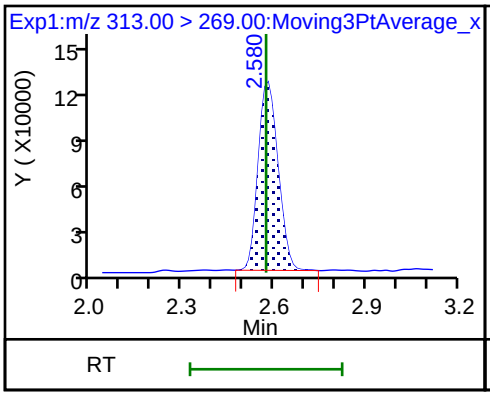
9 1H,1H,2H,2H-perfluorohexanesulfo



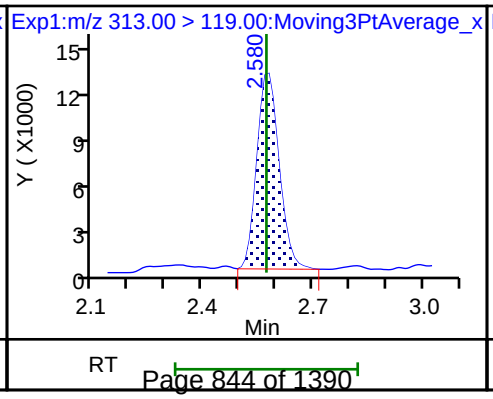
D 8 M2-4:2 FTS



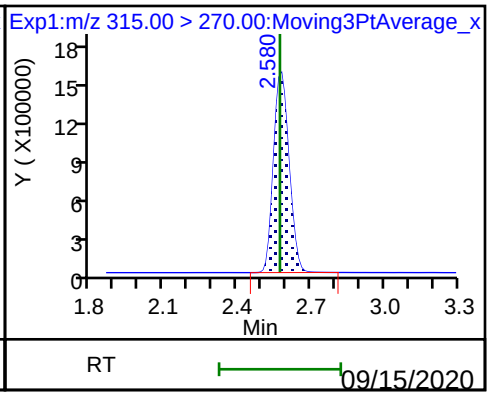
11 Perfluorohexanoic acid



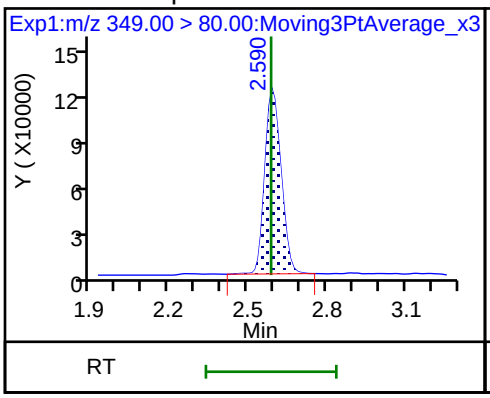
11 Perfluorohexanoic acid



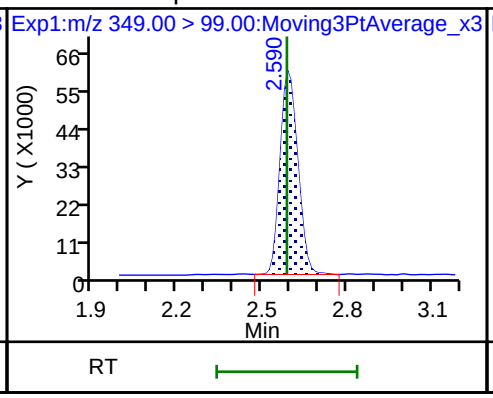
D 10 13C2 PFHxA



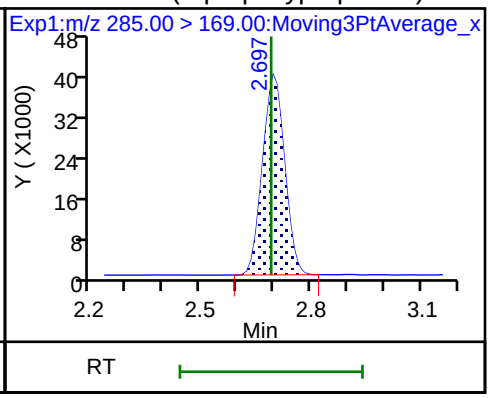
12 Perfluoropentanesulfonic acid



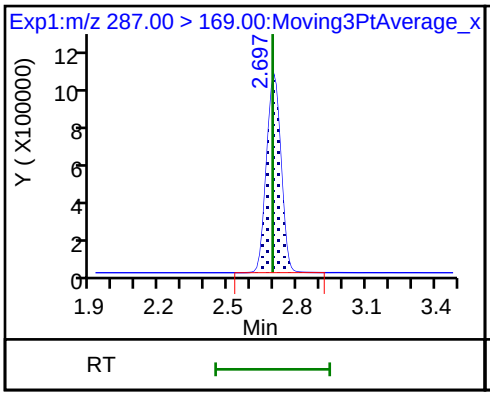
12 Perfluoropentanesulfonic acid



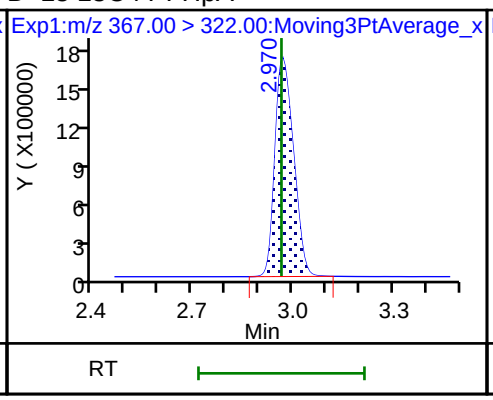
14 Perfluoro(2-propoxypropanoic) ac



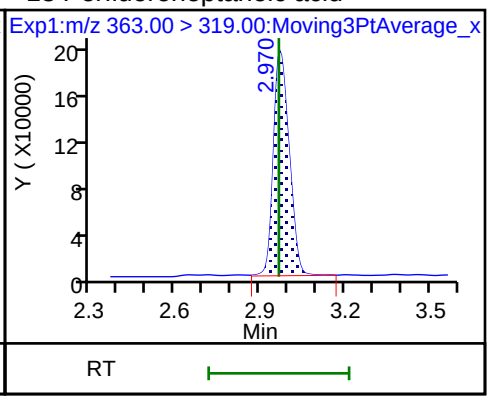
D 13 13C3 HFPO-DA



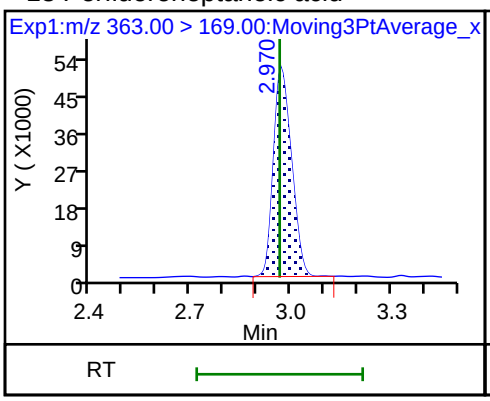
D 15 13C4 PFHpA



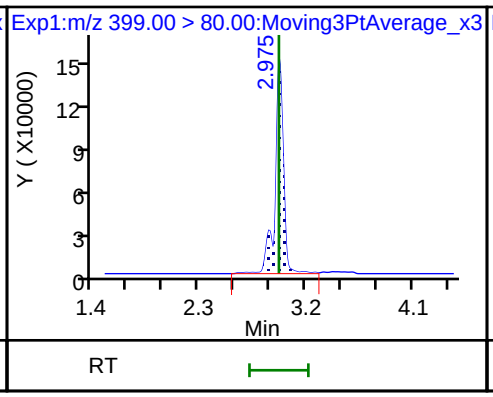
18 Perfluoroheptanoic acid



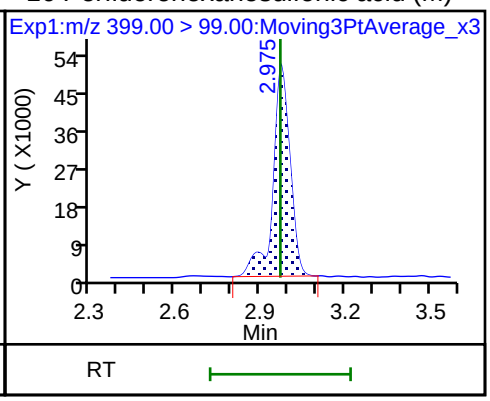
18 Perfluoroheptanoic acid



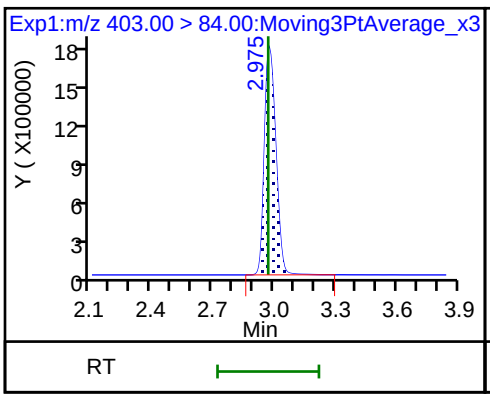
16 Perfluorohexanesulfonic acid



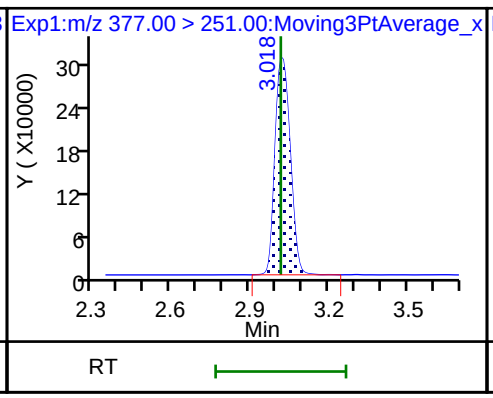
16 Perfluorohexanesulfonic acid (M)



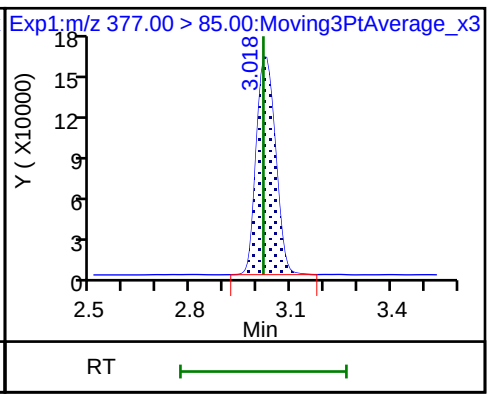
D 17 18O2 PFHxS



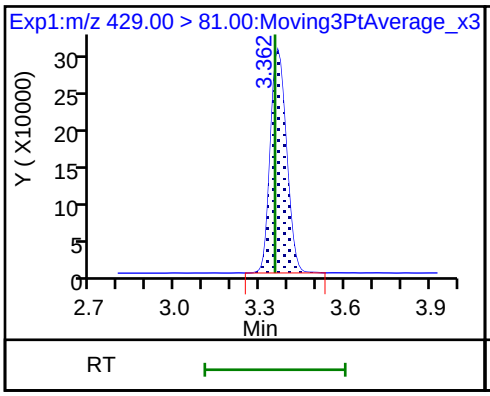
19 DONA



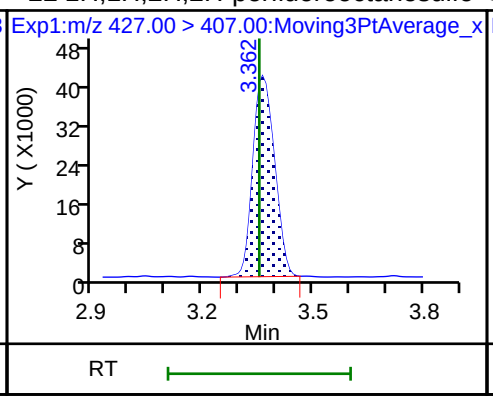
19 DONA



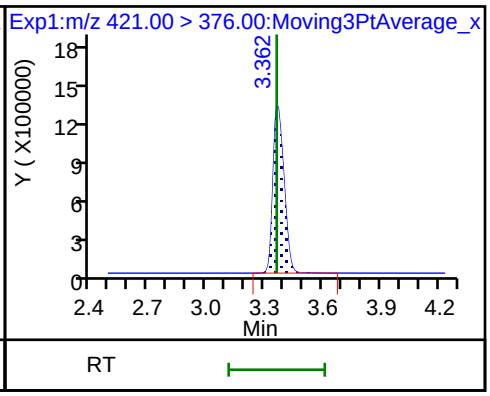
D 20 M2-6:2 FTS



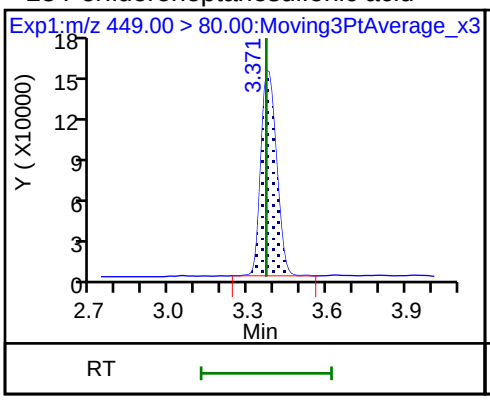
22 1H,1H,2H,2H-perfluorooctanesulfo



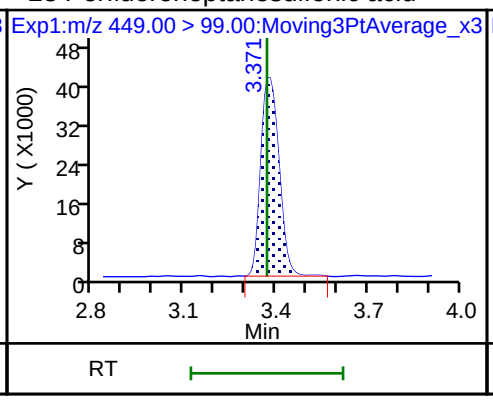
$ 21 13C8 PFOA



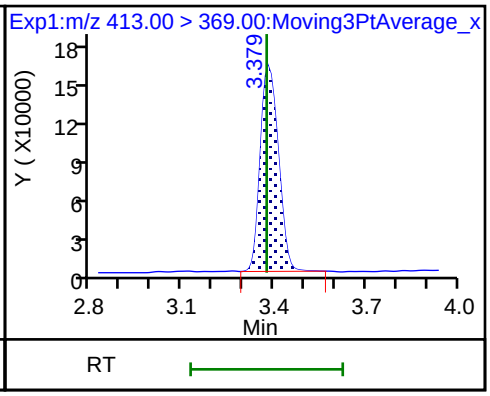
23 Perfluoroheptanesulfonic acid



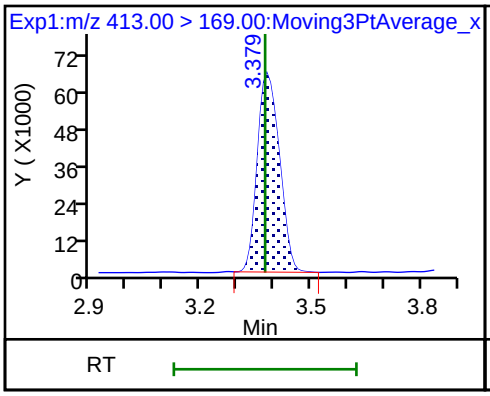
23 Perfluoroheptanesulfonic acid



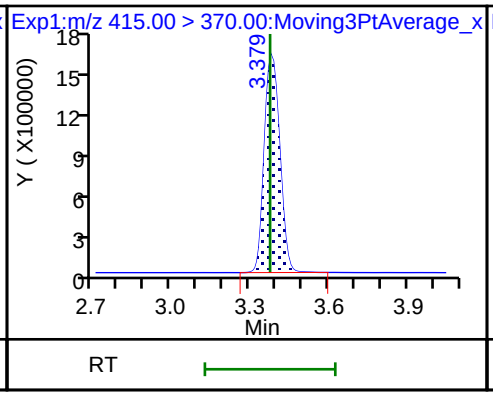
24 Perfluorooctanoic acid



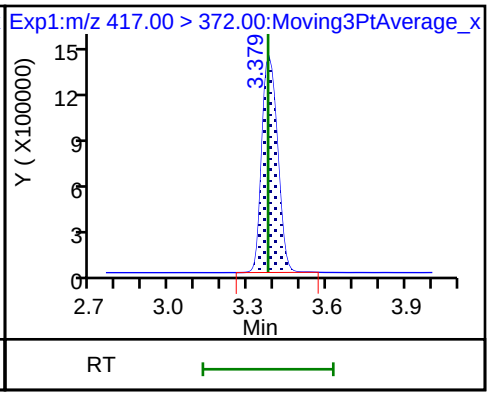
24 Perfluorooctanoic acid



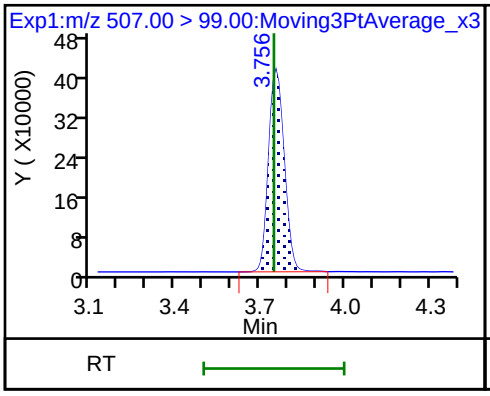
* 25 13C2 PFOA



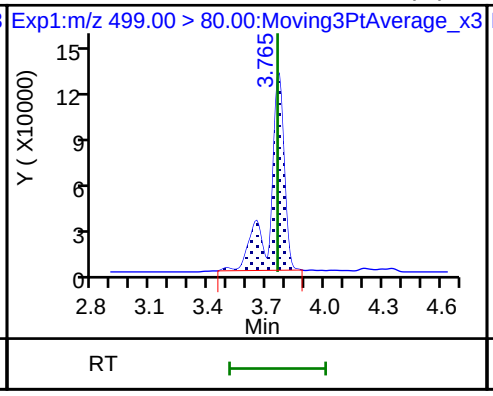
D 26 13C4 PFOA



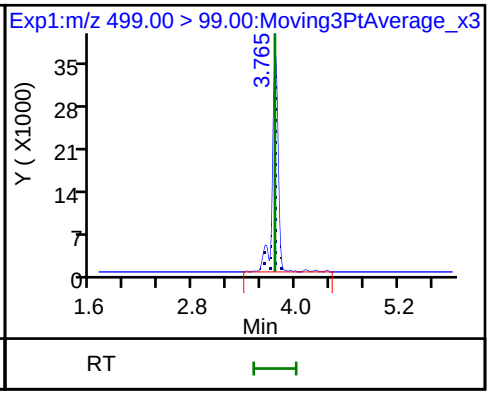
$ 27 13C8 PFOS



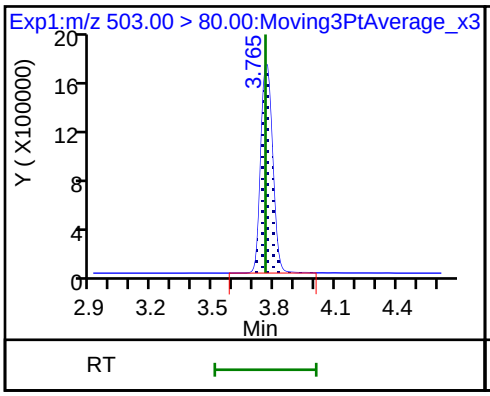
28 Perfluorooctanesulfonic acid (M)



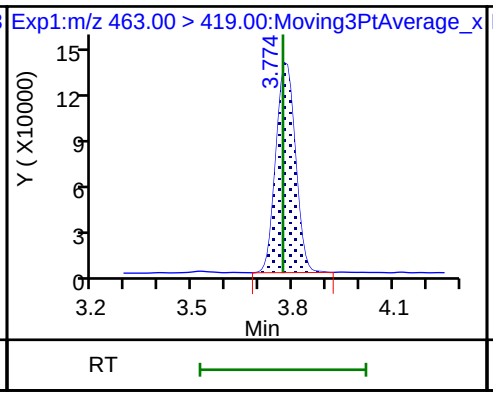
28 Perfluorooctanesulfonic acid



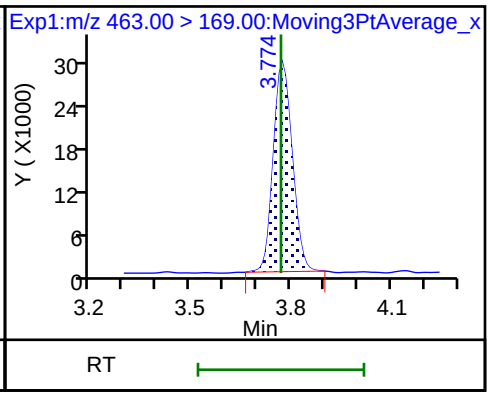
D 31 13C4 PFOS



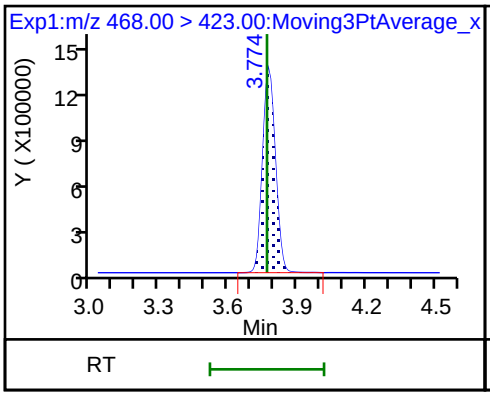
30 Perfluorononanoic acid



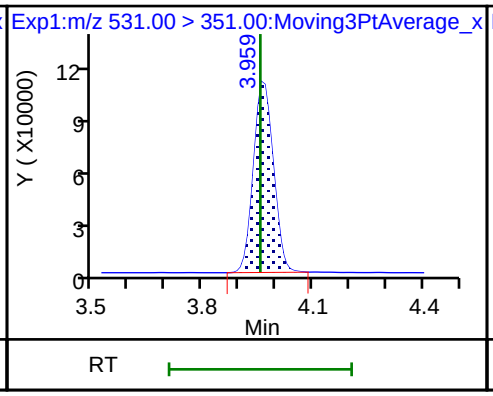
30 Perfluorononanoic acid



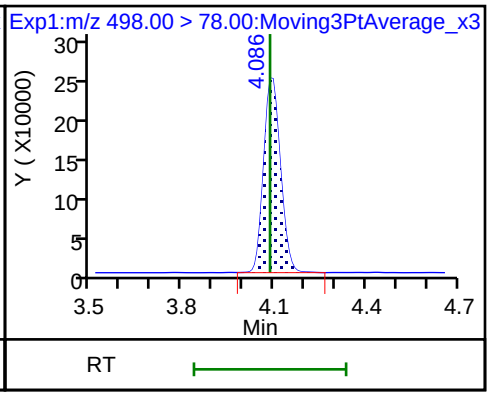
D 29 13C5 PFNA



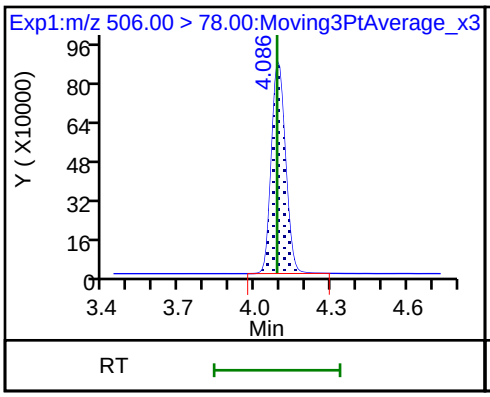
32 9-Chlorohexadecafluoro-3-oxanona



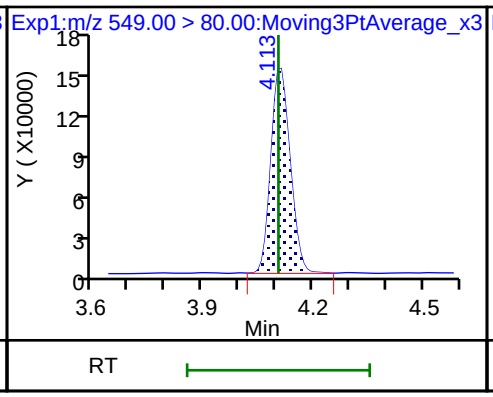
34 Perfluorooctanesulfonamide



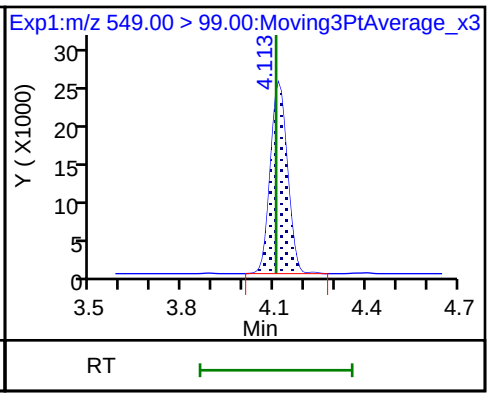
D 36 13C8 FOSA



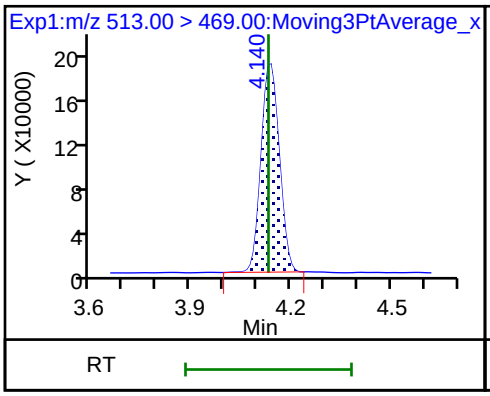
35 Perfluorononanesulfonic acid



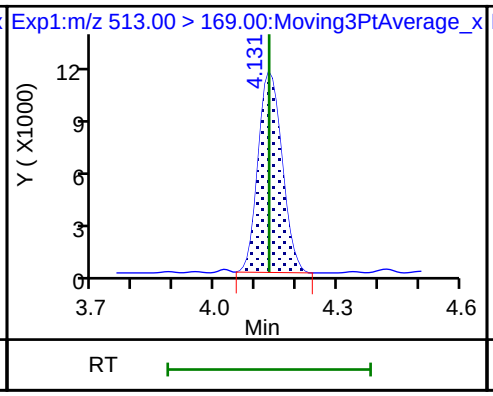
35 Perfluorononanesulfonic acid



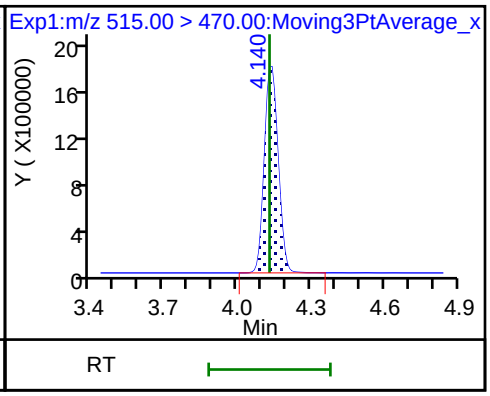
38 Perfluorodecanoic acid



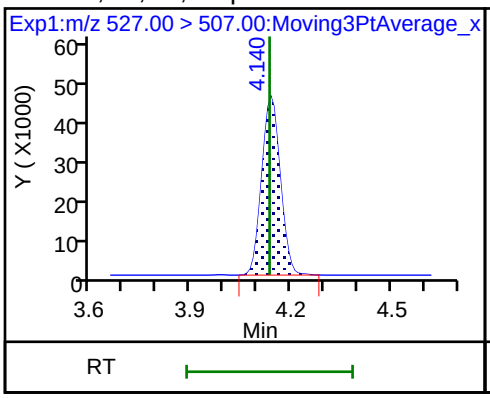
38 Perfluorodecanoic acid



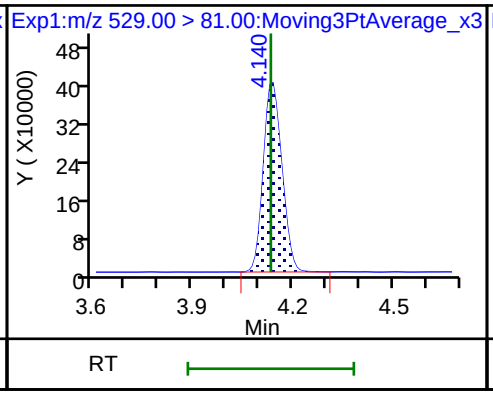
D 33 13C2 PFDA



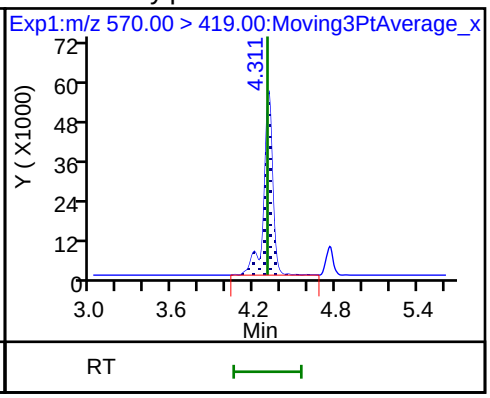
39 1H,1H,2H,2H-perfluorodecanesulfo



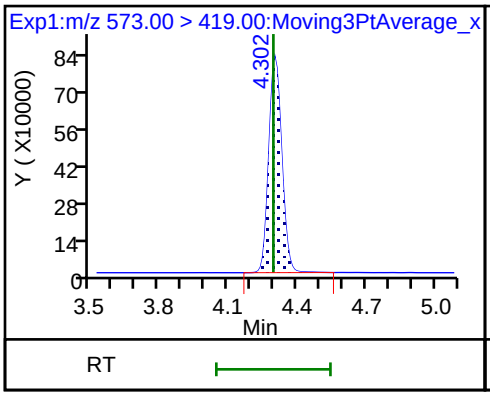
D 37 M2-8:2 FTS



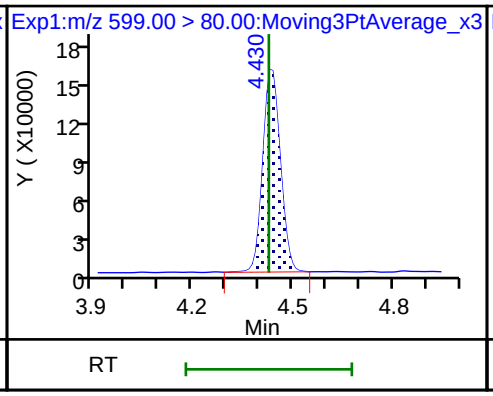
40 N-methylperfluorooctanesulfonami



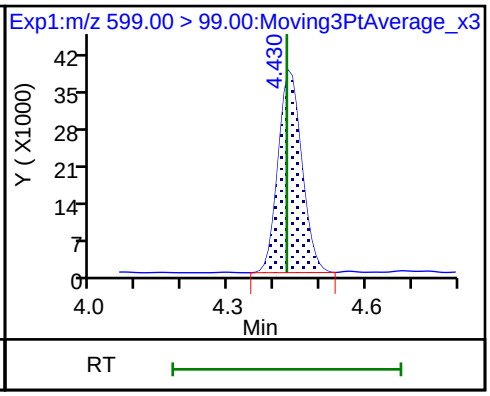
D 41 d3-NMeFOSAA



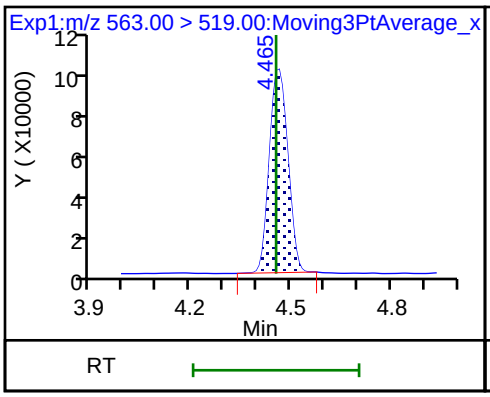
42 Perfluorodecanesulfonic acid



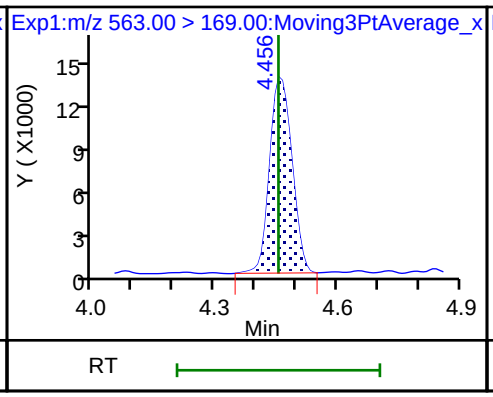
42 Perfluorodecanesulfonic acid



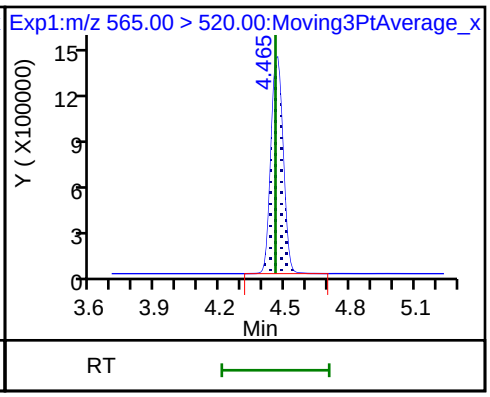
43 Perfluoroundecanoic acid



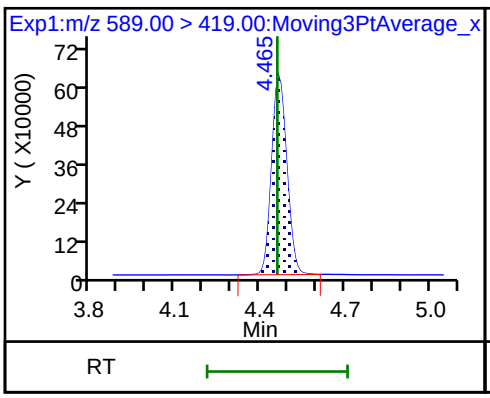
43 Perfluoroundecanoic acid



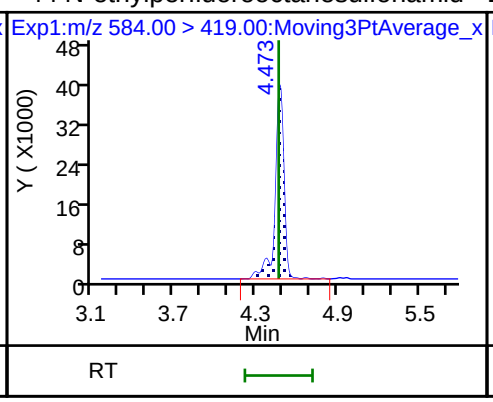
D 46 13C2 PFUnA



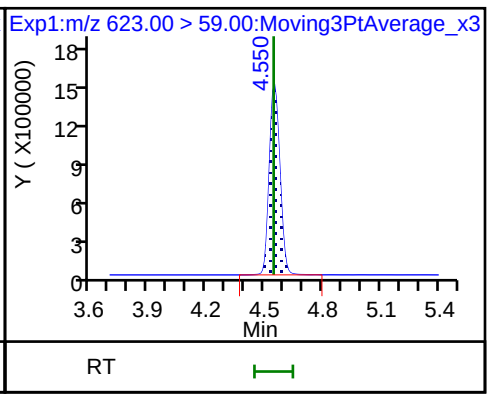
D 45 d5-NEtFOSAA



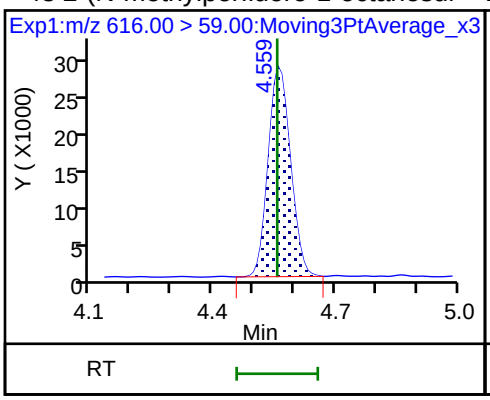
44 N-ethylperfluorooctanesulfonamid



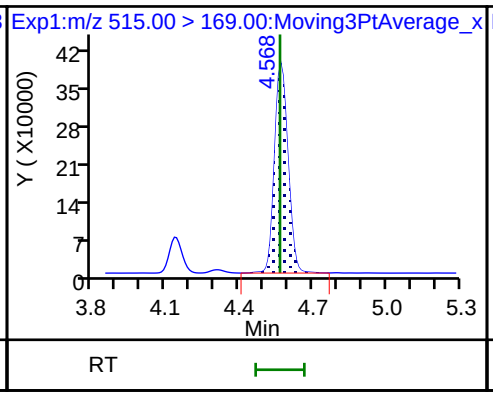
D 47 d7-N-MeFOSE-M



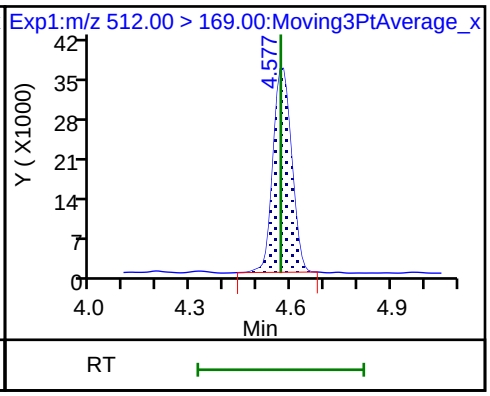
48 2-(N-methylperfluoro-1-octanesul



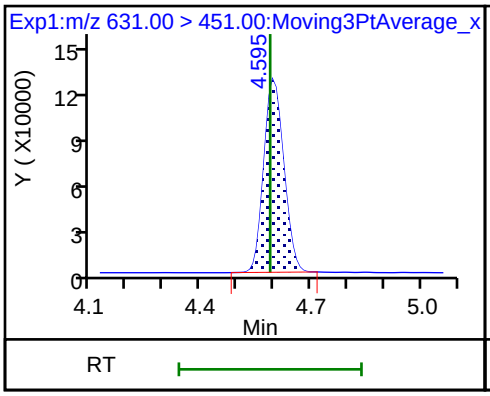
D 49 d-N-MeFOSA-M



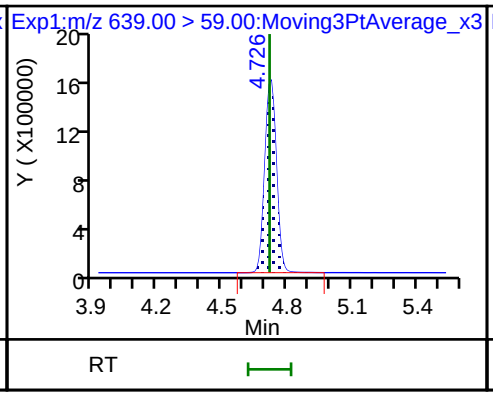
50 NMeFOSA



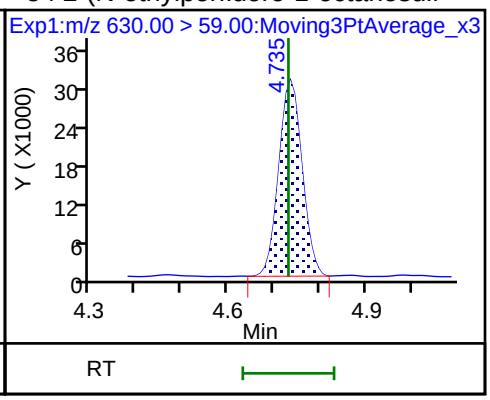
51 11-Chloroeicosafluoro-3-oxaundec



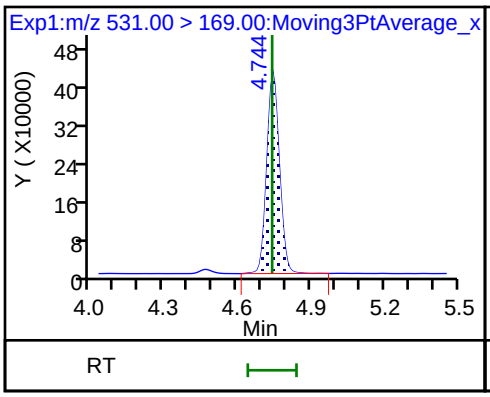
D 53 d9-N-EtFOSE-M



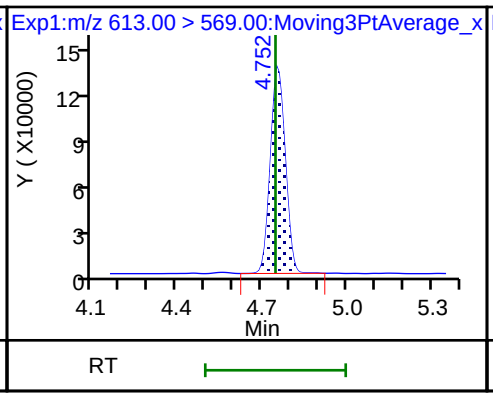
54 2-(N-ethylperfluoro-1-octanesulf



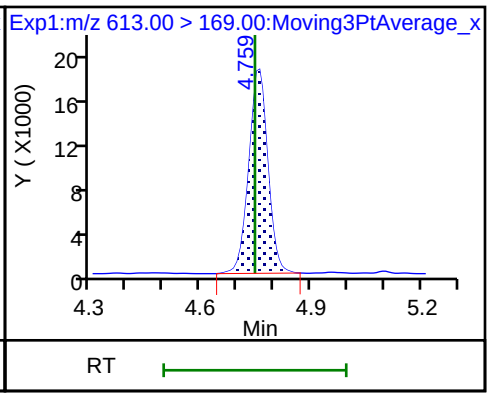
D 58 d-N-EtFOSA-M



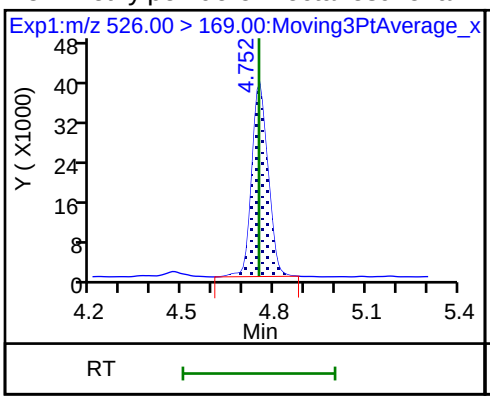
52 Perfluorododecanoic acid



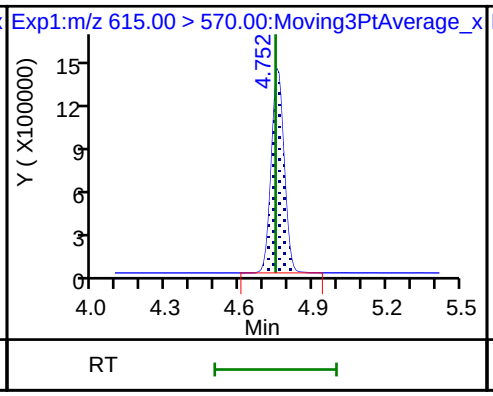
52 Perfluorododecanoic acid



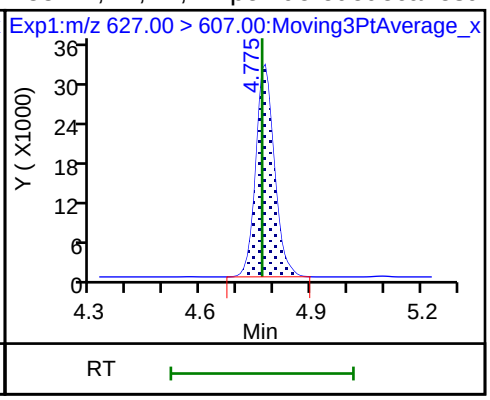
57 N-ethylperfluoro-1-octanesulfona



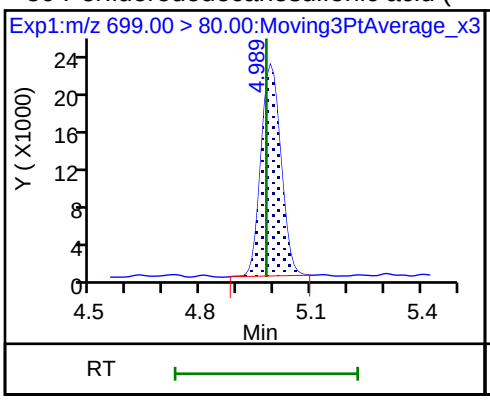
D 56 13C2 PFDoA



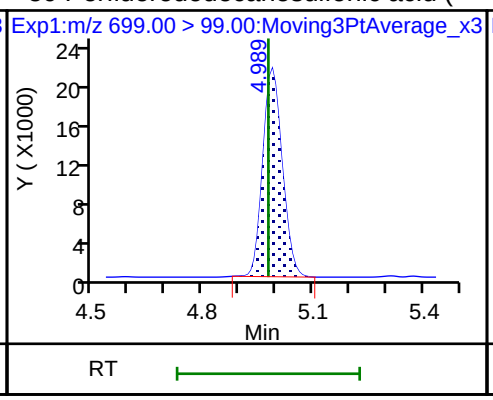
55 1H,1H,2H,2H-perfluorododecanesul



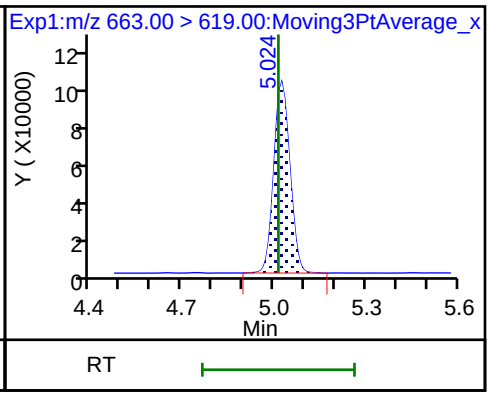
59 Perfluorododecanesulfonic acid (



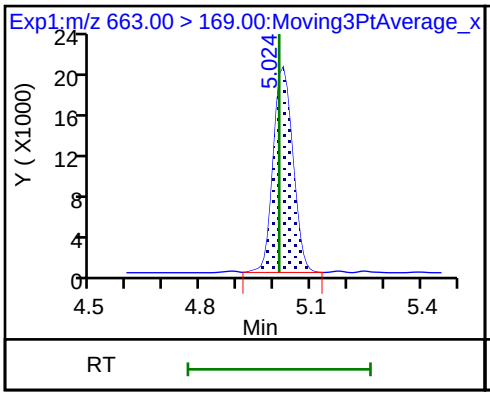
59 Perfluorododecanesulfonic acid (



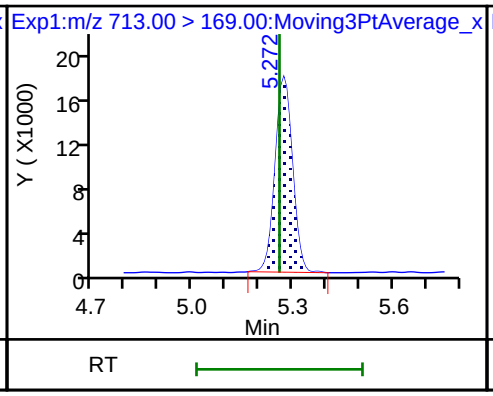
60 Perfluorotridecanoic acid



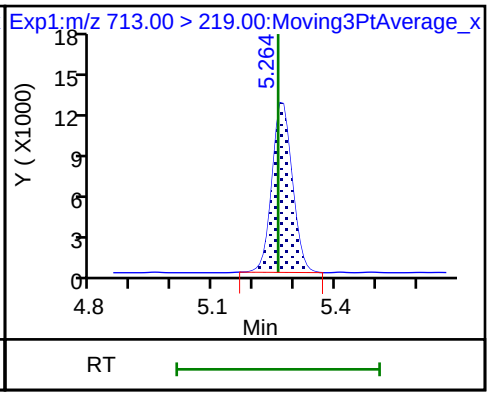
60 Perfluorotridecanoic acid



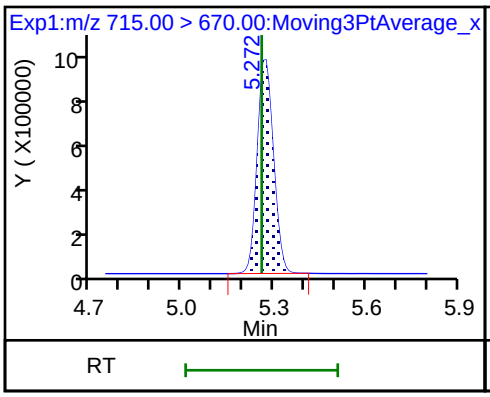
61 Perfluorotetradecanoic acid



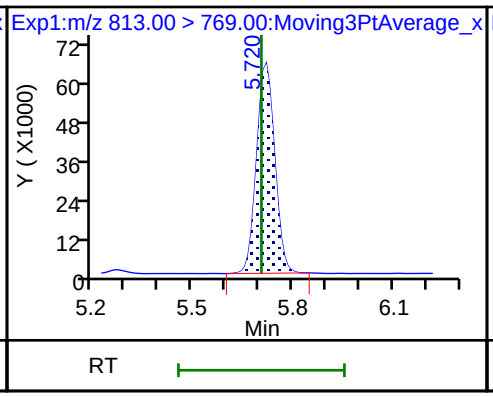
61 Perfluorotetradecanoic acid



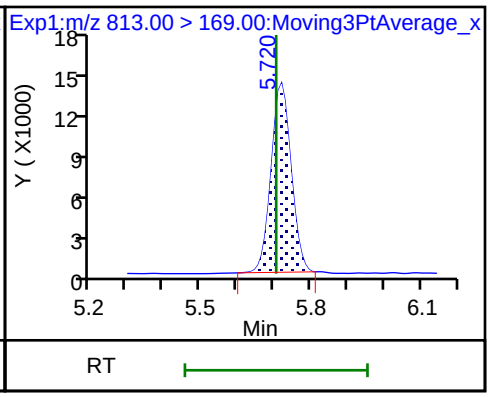
D 62 13C2 PFTeDA



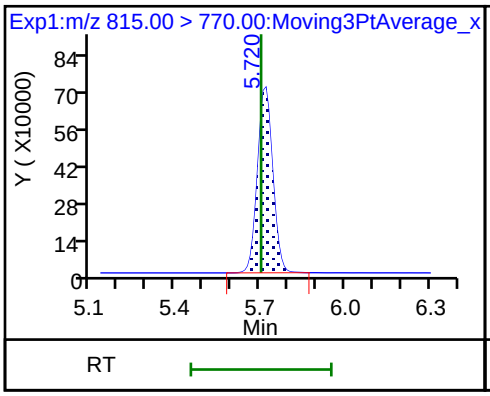
64 Perfluorohexadecanoic acid



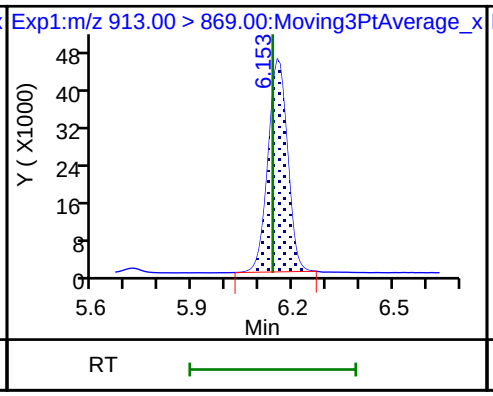
64 Perfluorohexadecanoic acid



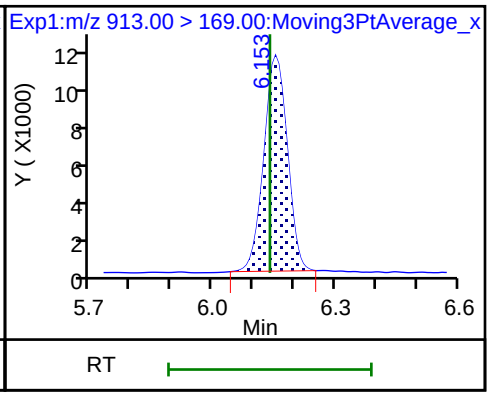
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

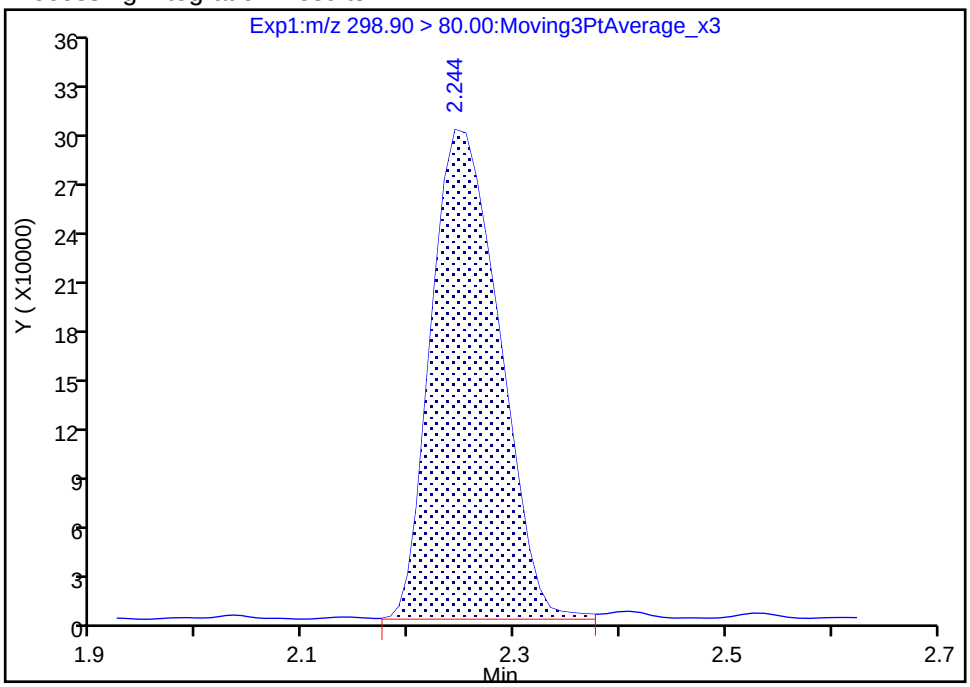
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_018.d
Injection Date: 10-Sep-2020 10:37:16 Instrument ID: A9
Lims ID: IC L3
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

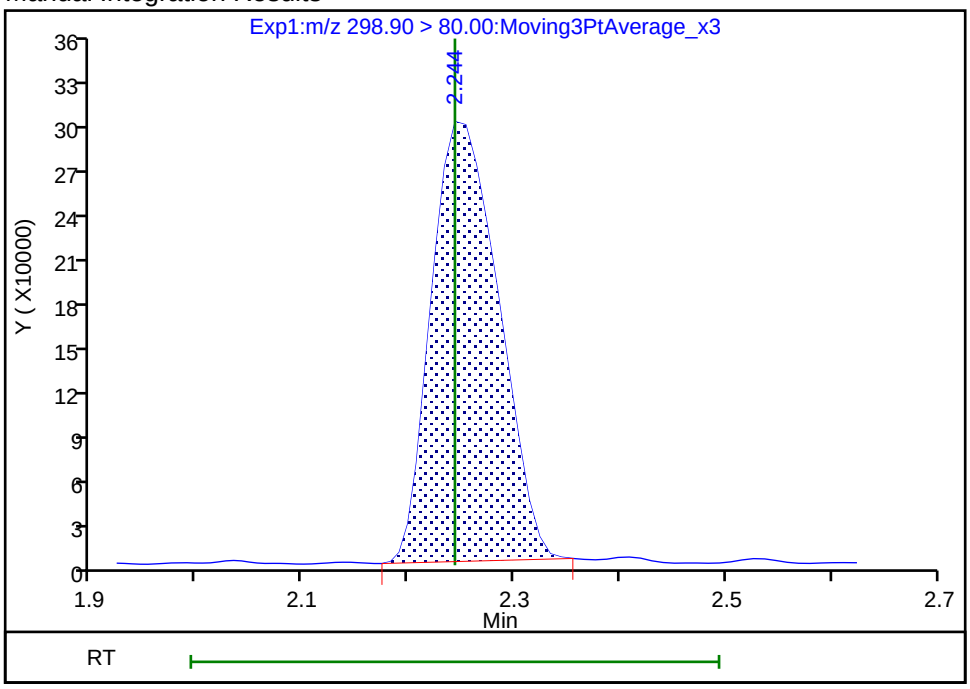
Processing Integration Results

RT: 2.24
Area: 1322452
Amount: 0.222532
Amount Units: ng/ml



Manual Integration Results

RT: 2.24
Area: 1295442
Amount: 0.229684
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:15:42
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

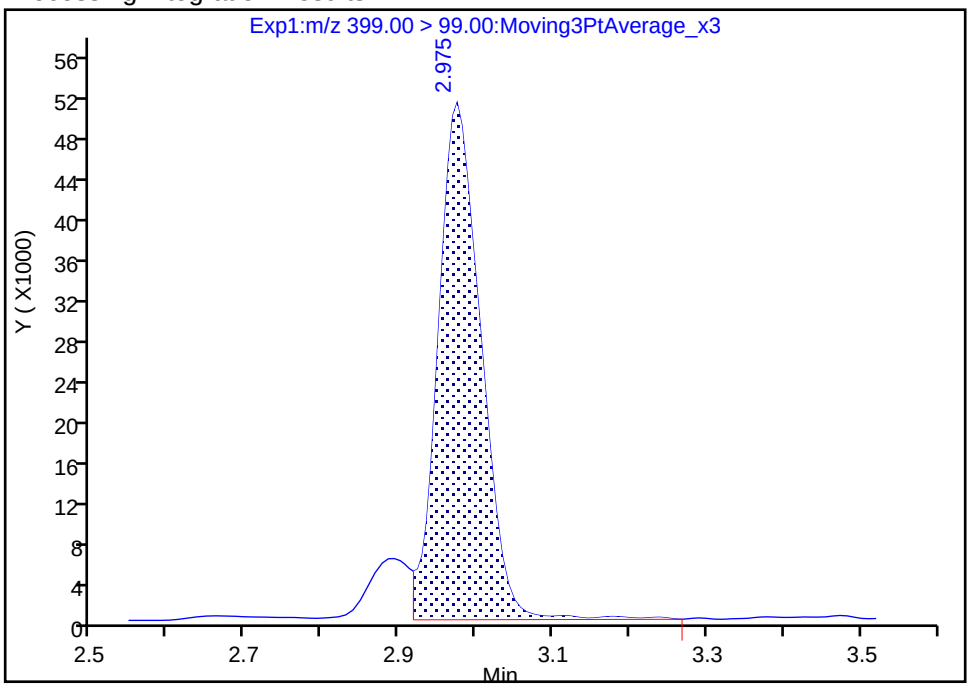
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_018.d
Injection Date: 10-Sep-2020 10:37:16 Instrument ID: A9
Lims ID: IC L3
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

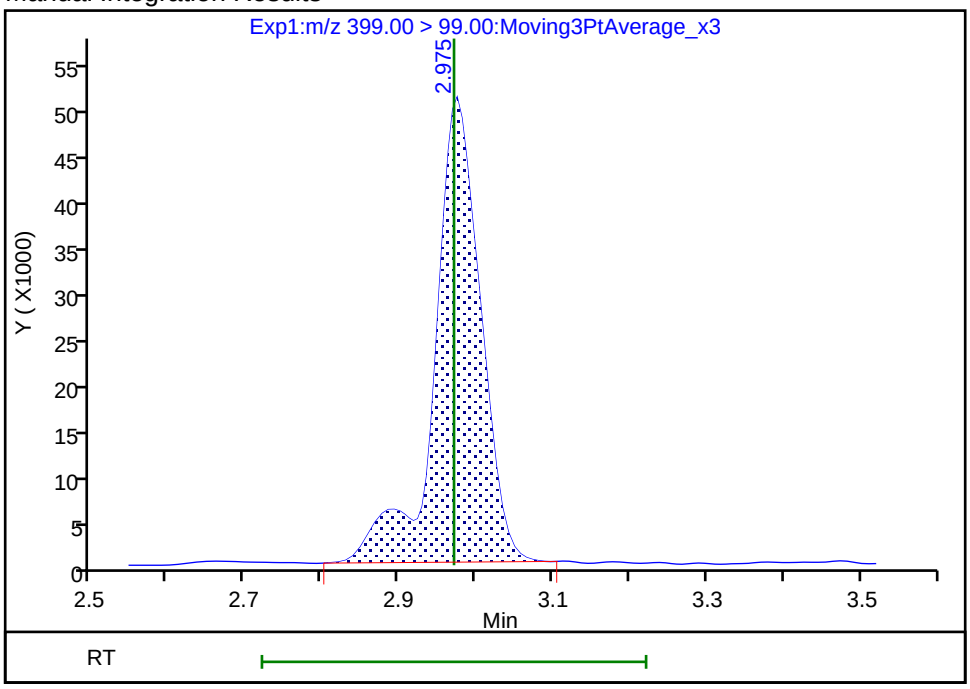
Processing Integration Results

RT: 2.98
Area: 197330
Amount: 0.211608
Amount Units: ng/ml



Manual Integration Results

RT: 2.98
Area: 212871
Amount: 0.216485
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:16:22
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

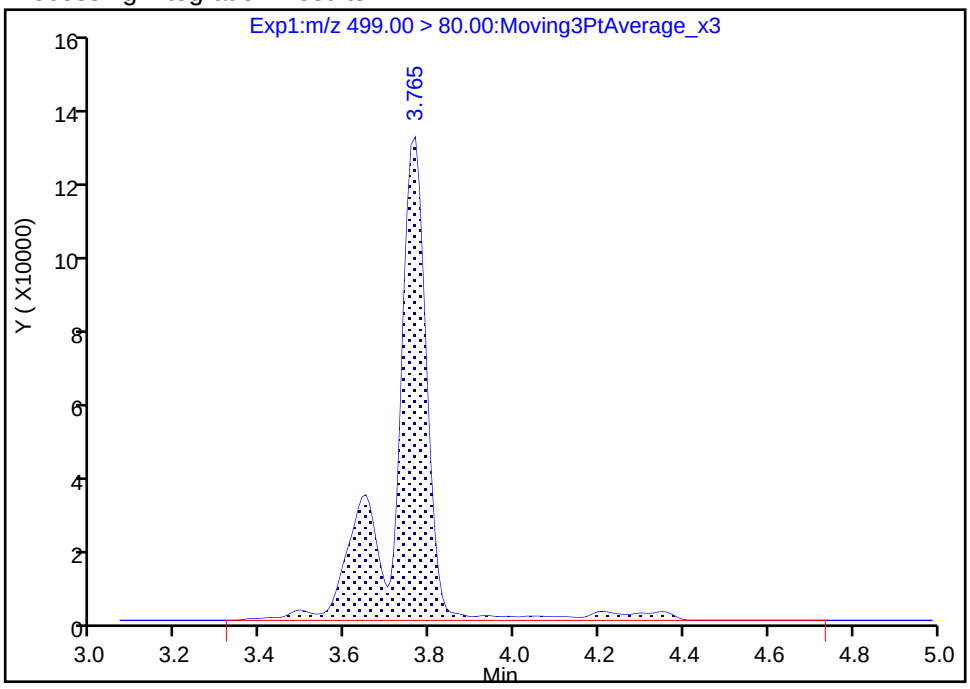
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_018.d
Injection Date: 10-Sep-2020 10:37:16 Instrument ID: A9
Lims ID: IC L3
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

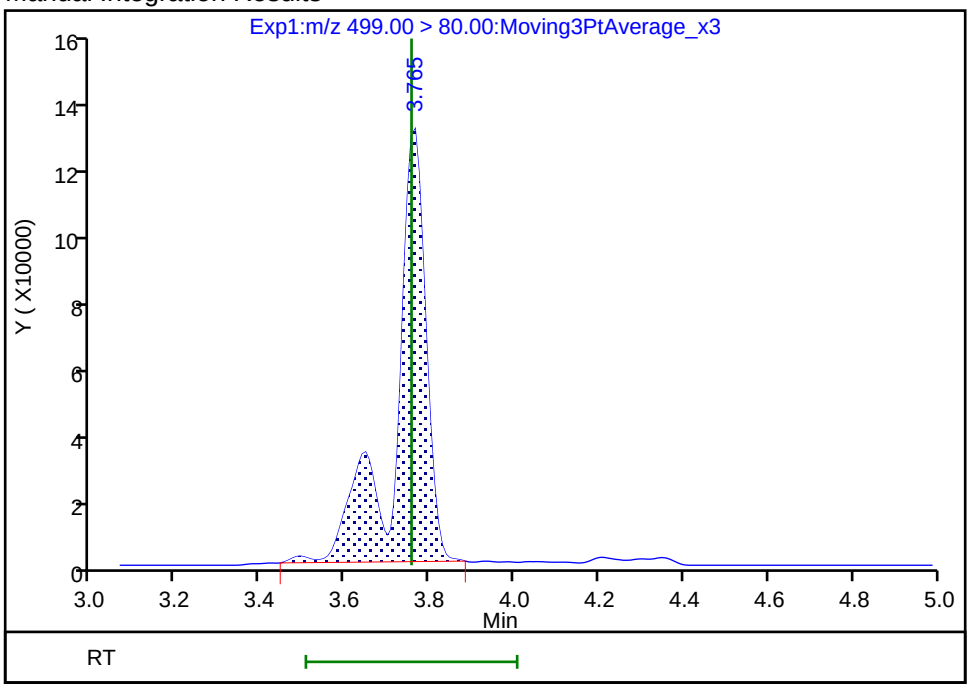
Processing Integration Results

RT: 3.76
Area: 723531
Amount: 0.234381
Amount Units: ng/ml



Manual Integration Results

RT: 3.76
Area: 654930
Amount: 0.219148
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:17:21
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_019.d
Lims ID: IC L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 10-Sep-2020 10:46:36 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD4_30
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:14:37 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 11:23:43
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.901	1.901	0.0	0.564	8185504	2.46		98.5	3204	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.901	1.904	-0.003	1.000	3251427	1.14		114	242	
D 4 13C5 PFPeA										
267.90 > 223.00	2.207	2.211	-0.004	0.655	6683295	2.38		95.4	3472	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.207	2.211	-0.004	1.000	2824036	1.04		104	244	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.244	2.244	0.0	1.004	5591416	1.00	Target=3.10	113	399	
298.90 > 99.00	2.234	2.244	-0.010	1.000	1653102		3.38(1.55-4.65)	113	369	
D 6 13C3 PFBS										
301.90 > 80.00	2.234	2.241	-0.007	0.663	12990046	2.35		101	4666	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.537	2.535	0.002	1.004	1142837	1.09		117	6591	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.526	2.533	-0.007	0.749	1237052	2.25		96.4	673	
D 10 13C2 PFHxA										
315.00 > 270.00	2.569	2.573	-0.004	0.762	6391446	2.45		98.1	3246	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.569	2.573	-0.004	1.000	2266324	1.06	Target=9.68	106	325	
313.00 > 119.00	2.569	2.573	-0.004	1.000	244616		9.26(4.84-14.52)	106	185	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.580	2.587	-0.007	1.155	2210542	0.9853	Target=2.01	105	508	
349.00 > 99.00	2.580	2.587	-0.007	1.155	1103398		2.00(1.00-3.01)	105	773	
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.686	2.691	-0.005	1.000	758774	1.09		109	3230	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.686	2.692	-0.006	0.797	4413524	2.47		98.7	3056	
D 15 13C4 PFHpA										
367.00 > 322.00	2.959	2.965	-0.007	0.878	6353500	2.51		100	3277	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.959	2.966	-0.008	1.000	2952448	1.05	Target=3.74	105	531	
363.00 > 169.00	2.959	2.966	-0.008	1.000	767862		3.85(1.87-5.61)	105	684	
D 17 18O2 PFHxS										
403.00 > 84.00	2.964	2.969	-0.005	0.879	6397044	2.41		102	3273	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.964	2.971	-0.007	1.000	2859421	0.8962	Target=3.29	98.5	577	
399.00 > 99.00	2.964	2.971	-0.007	1.000	820713		3.48(1.65-4.94)	98.5	469	M
19 DONA										
377.00 > 251.00	3.011	3.017	-0.006	0.803	5440739	1.09	Target=1.80	115	4004	
377.00 > 85.00	3.011	3.017	-0.006	0.803	2927941		1.86(0.90-2.70)	115	3699	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.347	3.352	-0.005	0.993	1136846	2.40		101	1273	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.347	3.353	-0.006	1.000	731791	0.99		105	1061	
$ 21 13C8 PFOA										
421.00 > 376.00	3.354	3.362	-0.008	0.995	4924358	2.47		101	6048	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.362	3.369	-0.007	0.897	2694297	1.06	Target=3.65	111	880	
449.00 > 99.00	3.362	3.369	-0.007	0.897	712823		3.78(1.83-5.48)	111	958	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.371	3.375	-0.004	1.000	2655085	1.02	Target=2.37	102	526	
413.00 > 169.00	3.371	3.375	-0.004	1.000	1076530		2.47(1.19-3.56)	102	1114	
* 25 13C2 PFOA										
415.00 > 370.00	3.371	3.376	-0.005		6156052	2.50			4701	
D 26 13C4 PFOA										
417.00 > 372.00	3.371	3.376	-0.005	1.000	6054330	2.55		102	4916	
$ 27 13C8 PFOS										
507.00 > 99.00	3.747	3.748	-0.001	1.112	1473644	2.35		98.5	2057	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.757	3.756	0.0	1.002	2765721	0.9637	Target=4.12	104	356	
499.00 > 99.00	3.747	3.756	-0.009	1.000	652160		4.24(2.06-6.17)	104	874	M
D 31 13C4 PFOS										
503.00 > 80.00	3.747	3.756	-0.009	1.112	6597517	2.39		99.8	1450	
30 Perfluorononanoic acid										
463.00 > 419.00	3.766	3.770	-0.004	1.000	2313472	1.05	Target=4.21	105	1662	
463.00 > 169.00	3.766	3.770	-0.004	1.000	538397		4.30(2.11-6.32)	105	1082	
D 29 13C5 PFNA										
468.00 > 423.00	3.766	3.767	-0.001	1.117	5531319	2.68		107	4810	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.951	3.956	-0.005	1.054	1712587	0.9888		106	2078	
D 36 13C8 FOSA										
506.00 > 78.00	4.079	4.086	-0.007	1.210	3252977	2.50		100	2704	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.079	4.086	-0.007	1.000	3777803	1.04		104	2777	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.097	4.106	-0.009	1.093	2204044	1.05	Target=5.56	110	1260	
549.00 > 99.00	4.105	4.106	-0.001	1.096	354130		6.22(2.78-8.34)	110	1218	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.123	4.132	-0.009	1.000	2722259	1.10	Target=14.33	110	1406	
513.00 > 169.00	4.123	4.132	-0.009	1.000	179528		15.16(7.16-21.49)	110	299	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.132	4.135	-0.003	1.000	760505	0.9503		99.2	4574	
D 33 13C2 PFDA										
515.00 > 470.00	4.123	4.130	-0.007	1.223	6218902	2.38		95.0	4860	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.132	4.133	-0.001	1.226	1487565	2.56		107	1249	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.294	4.295	-0.001	1.274	3088740	2.37		94.9	2222	
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.294	4.299	-0.005	1.000	980061	1.04		104	201	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.423	4.427	-0.004	1.180	2430075	1.04	Target=4.29	108	999	
599.00 > 99.00	4.423	4.427	-0.004	1.180	527232		4.61(2.15-6.44)	108	1367	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.449	4.455	-0.006	1.000	1513496	1.05	Target=6.74	105	1835	
563.00 > 169.00	4.449	4.455	-0.006	1.000	229521		6.59(3.37-10.11)	105	556	
D 46 13C2 PFUnA										
565.00 > 520.00	4.449	4.455	-0.006	1.320	5190650	2.57		103	7871	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.457	4.460	-0.003	1.322	2228634	2.56		102	3444	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.466	4.467	-0.001	1.002	734316	1.02		102	9722	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.543	4.546	-0.003	1.348	4958225	11.8		94.8	4579	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.551	4.557	-0.006	1.002	450645	1.09		109	950	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.560	4.565	-0.005	1.353	1402993	2.40		95.9	230	
50 NMeFOSA										
512.00 > 169.00	4.570	4.569	0.001	1.002	645147	1.10		110	978	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.588	4.588	0.0	1.224	2264304	1.11		118	2721	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.719	4.718	0.001	1.400	5314215	12.1		96.7	4978	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.728	4.731	-0.003	1.002	451734	1.07		107	936	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.737	4.741	-0.004	1.405	1480814	2.44		97.4	915	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
52 Perfluorododecanoic acid										
613.00 > 569.00	4.746	4.747	-0.001	1.000	1897971	1.06	Target=6.67	105	2467	
613.00 > 169.00	4.746	4.747	-0.001	1.000	276673		6.86(3.34-10.01)	105	1966	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.746	4.749	-0.003	1.002	633467	1.07		107	656	
D 56 13C2 PFDoA										
615.00 > 570.00	4.746	4.747	-0.001	1.408	4879307	2.46		98.5	7671	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.761	4.766	-0.005	1.152	449573	0.8812		91.4	1751	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.974	4.978	-0.004	1.327	342753	0.9788	Target=1.02	101	717	
699.00 > 99.00	4.974	4.978	-0.004	1.327	344176		1.00(0.51-1.53)	101	1458	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.008	5.013	-0.005	1.055	1563186	1.10	Target=4.80	110	2359	
663.00 > 169.00	5.016	5.013	0.003	1.057	342486		4.56(2.40-7.20)	110	1258	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.257	5.259	-0.002	1.000	244523	1.00	Target=1.37	100	1297	
713.00 > 219.00	5.257	5.259	-0.002	1.000	181996		1.34(0.69-2.06)	100	1163	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.257	5.258	-0.001	1.560	3455387	2.50		100.0	5914	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.705	5.705	0.0	1.000	992148	1.08	Target=4.63	108	2148	
813.00 > 169.00	5.705	5.705	0.0	1.000	213806		4.64(2.32-6.95)	108	1371	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.705	5.703	0.002	1.693	2450268	2.40		95.9	5520	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.140	6.139	0.001	1.076	794719	1.08	Target=4.01	108	1399	
913.00 > 169.00	6.140	6.139	0.001	1.076	198255		4.01(2.01-6.02)	108	968	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:14:41 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_019.d

Injection Date: 10-Sep-2020 10:46:36 Instrument ID: A9

Lims ID: IC L4

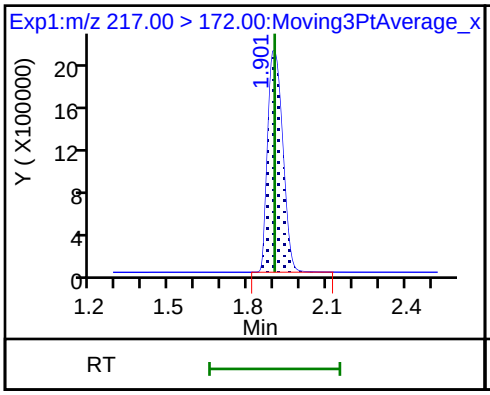
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 13 Worklist Smp#: 5

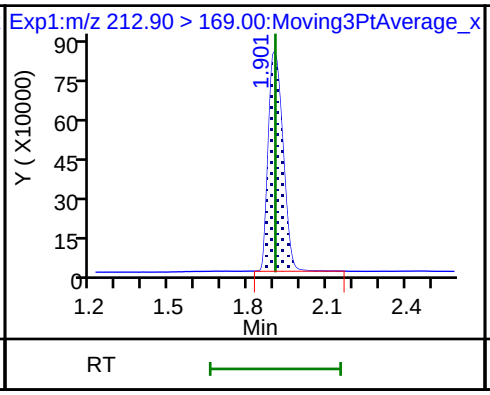
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

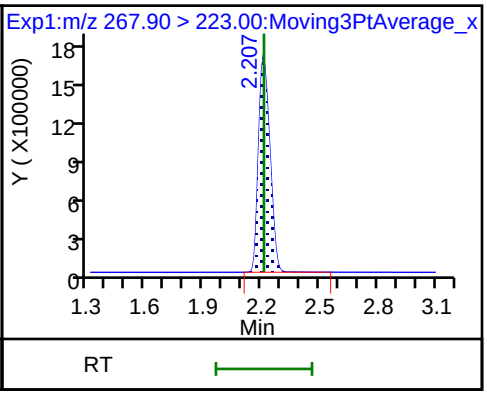
D 1 13C4 PFBA



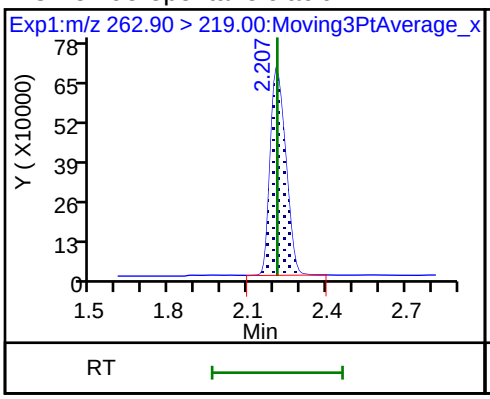
2 Perfluorobutanoic acid



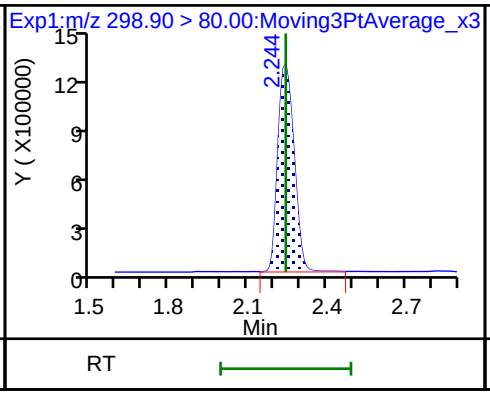
D 4 13C5 PFPeA



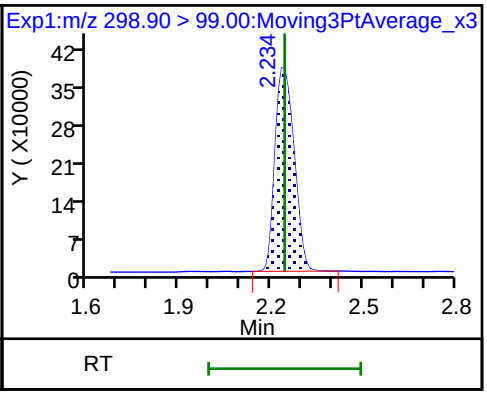
3 Perfluoropentanoic acid



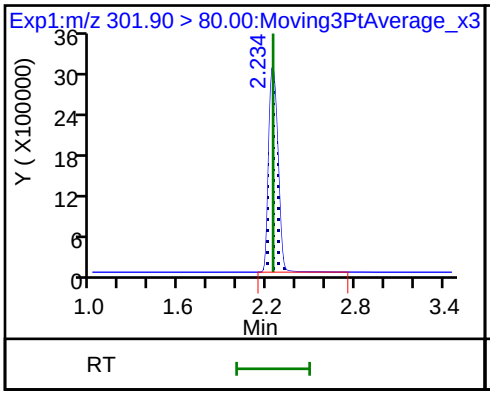
5 Perfluorobutanesulfonic acid



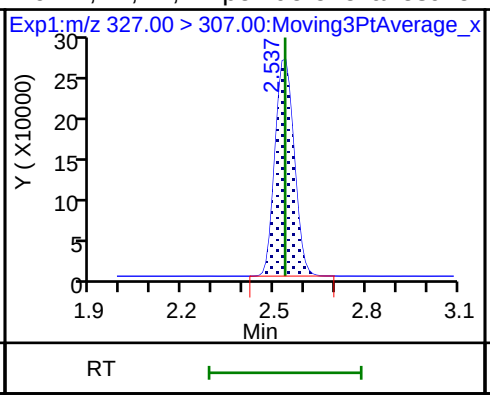
5 Perfluorobutanesulfonic acid



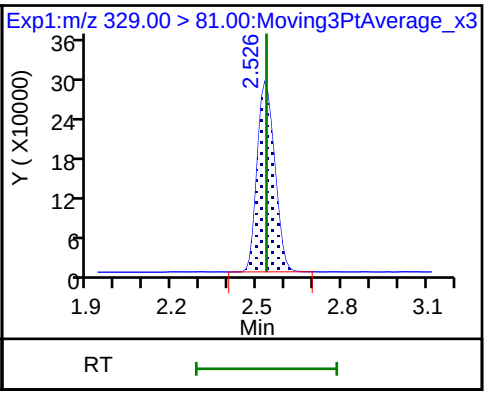
D 6 13C3 PFBS



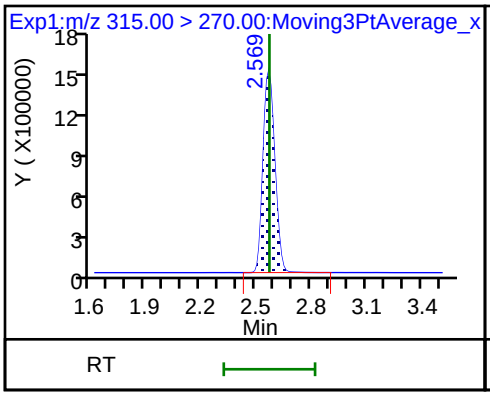
9 1H,1H,2H,2H-perfluorohexanesulfo



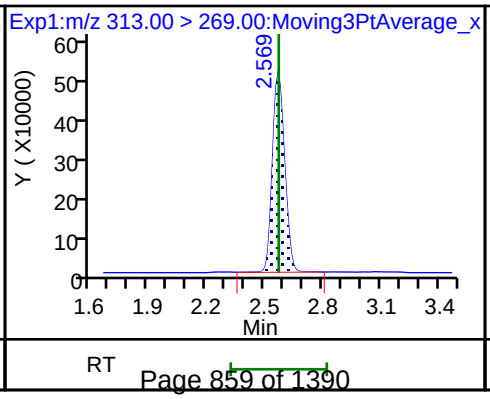
D 8 M2-4:2 FTS



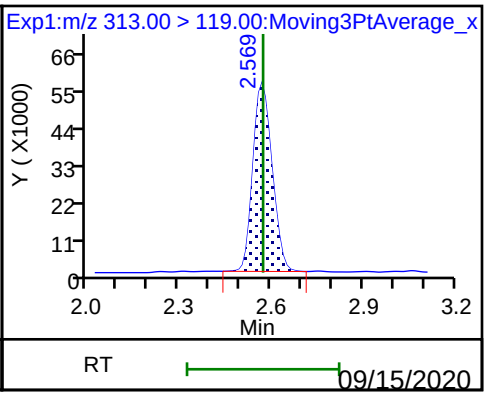
D 10 13C2 PFHxA



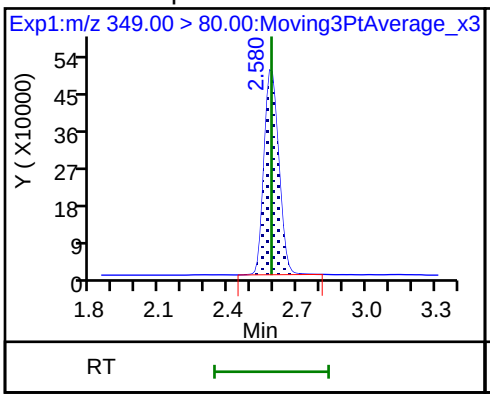
11 Perfluorohexanoic acid



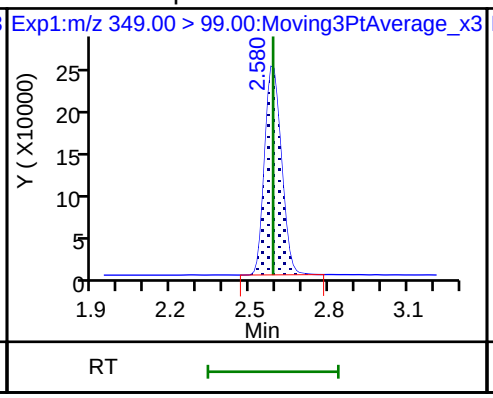
11 Perfluorohexanoic acid



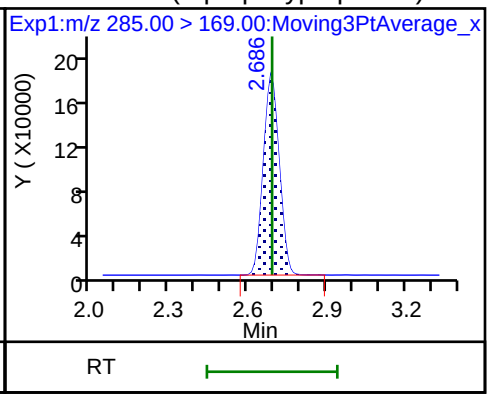
12 Perfluoropentanesulfonic acid



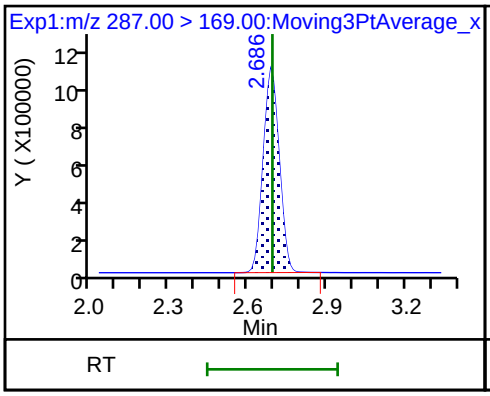
12 Perfluoropentanesulfonic acid



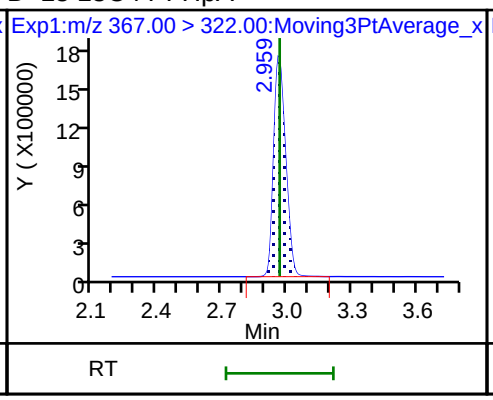
14 Perfluoro(2-propoxypropanoic) ac



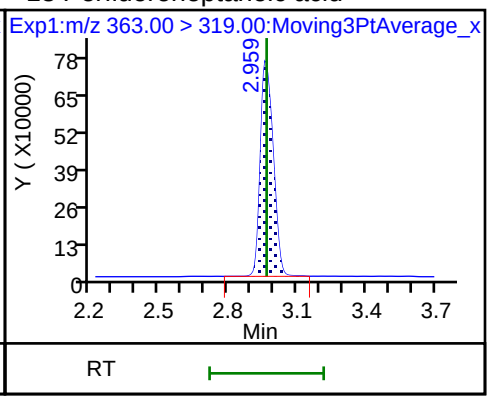
D 13 13C3 HFPO-DA



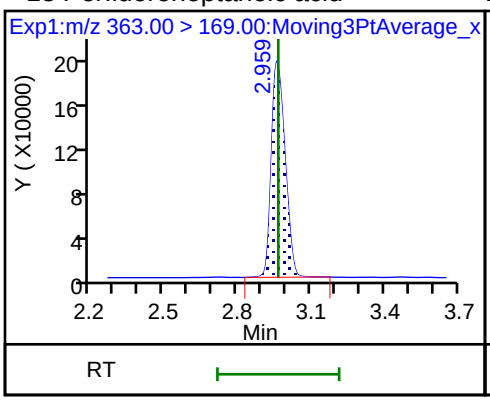
D 15 13C4 PFHpA



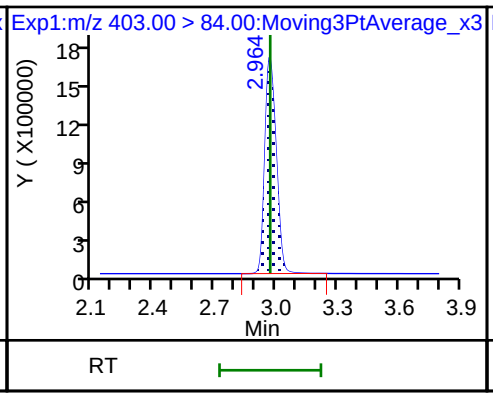
18 Perfluoroheptanoic acid



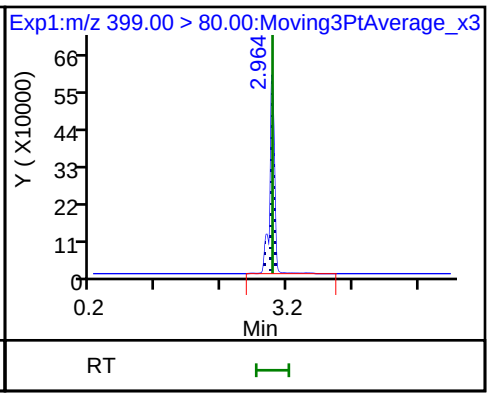
18 Perfluoroheptanoic acid



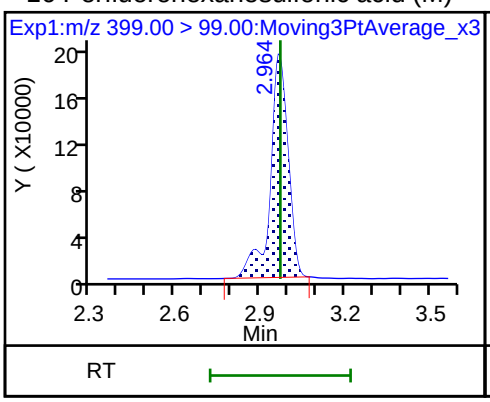
D 17 18O2 PFHxS



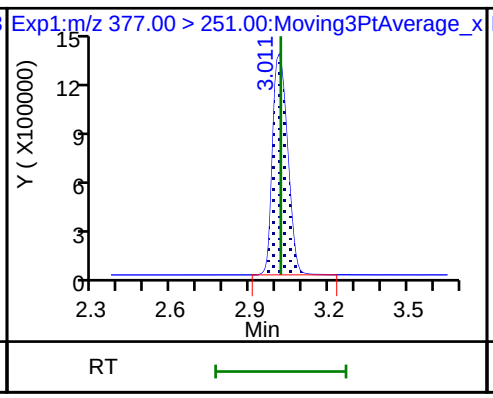
16 Perfluorohexanesulfonic acid



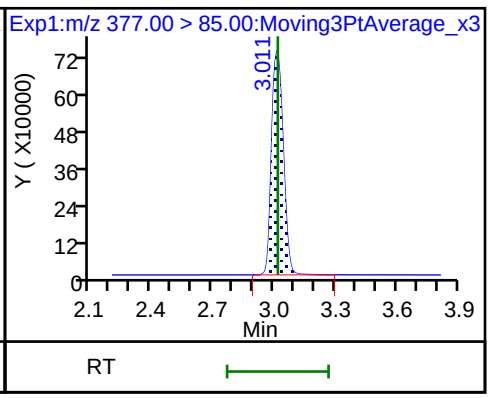
16 Perfluorohexanesulfonic acid (M)



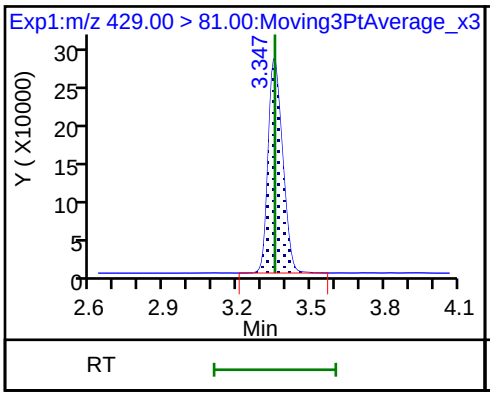
19 DONA



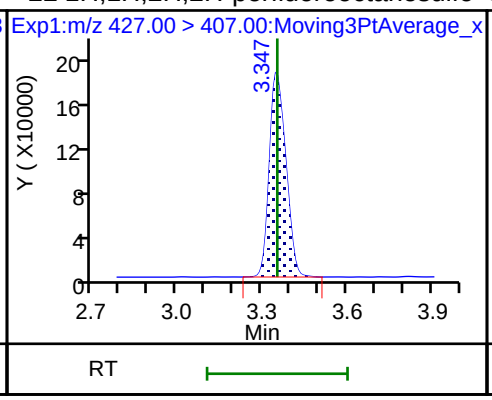
19 DONA



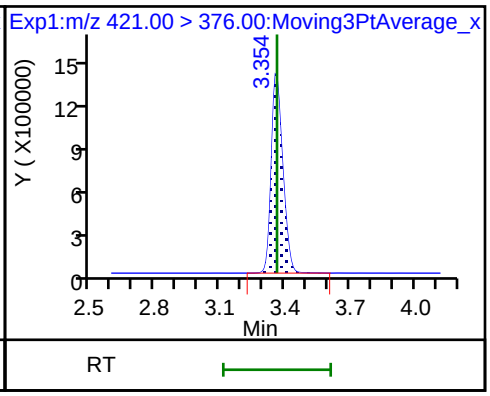
D 20 M2-6:2 FTS



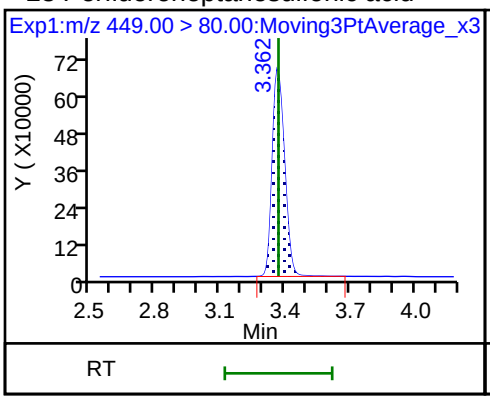
22 1H,1H,2H,2H-perfluorooctanesulfo



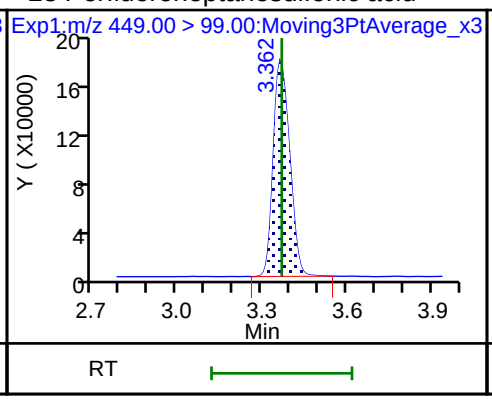
$ 21 13C8 PFOA



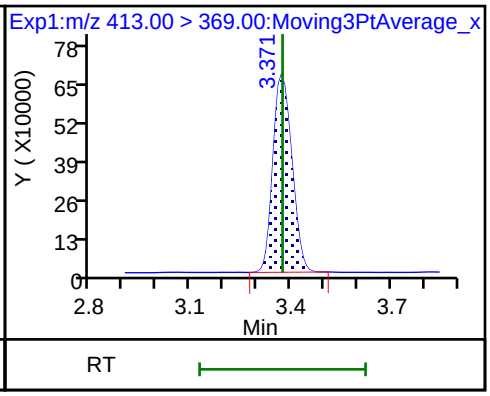
23 Perfluoroheptanesulfonic acid



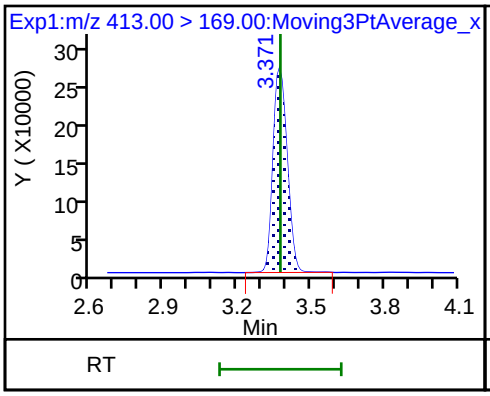
23 Perfluoroheptanesulfonic acid



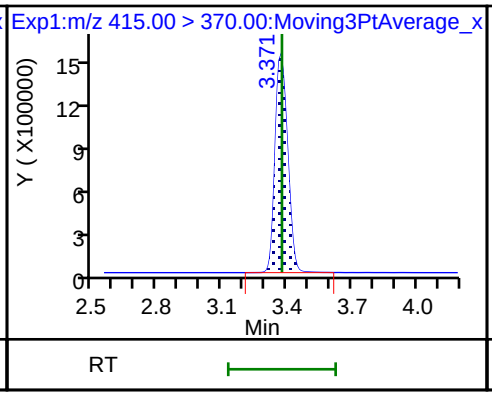
24 Perfluorooctanoic acid



24 Perfluorooctanoic acid



* 25 13C2 PFOA



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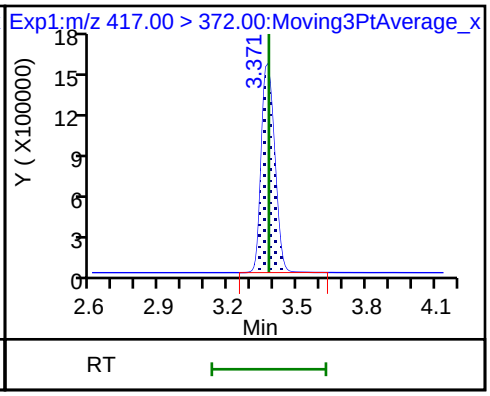
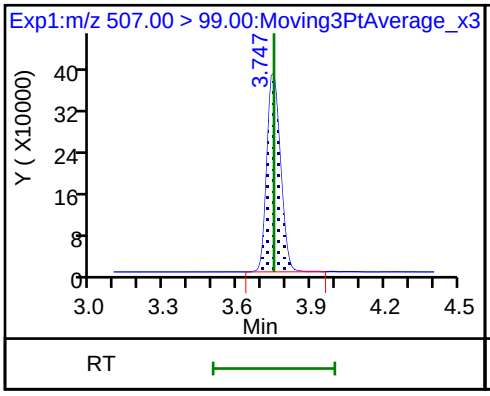
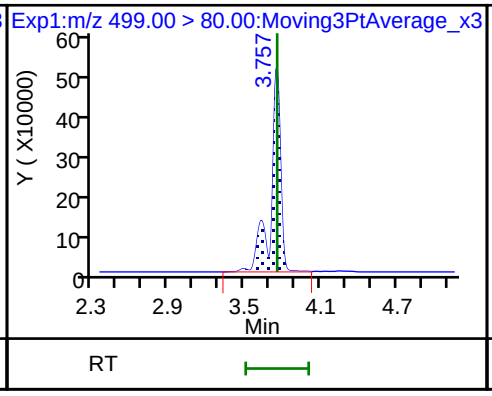


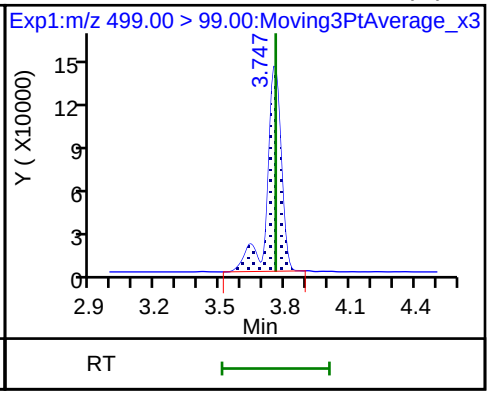
$ 27 13C8 PFOS



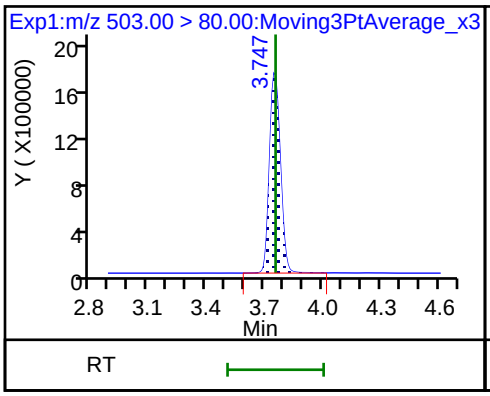
28 Perfluorooctanesulfonic acid



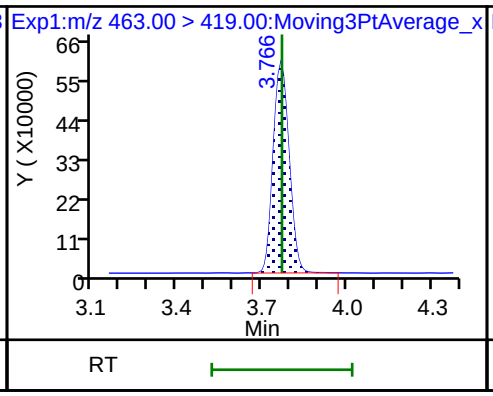
28 Perfluorooctanesulfonic acid (M)



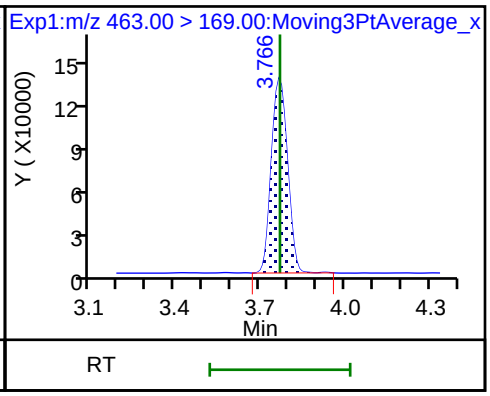
D 31 13C4 PFOS



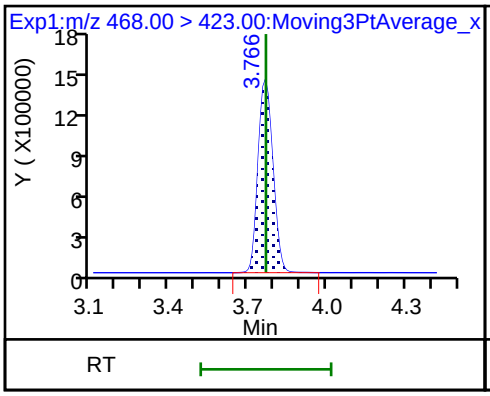
30 Perfluorononanoic acid



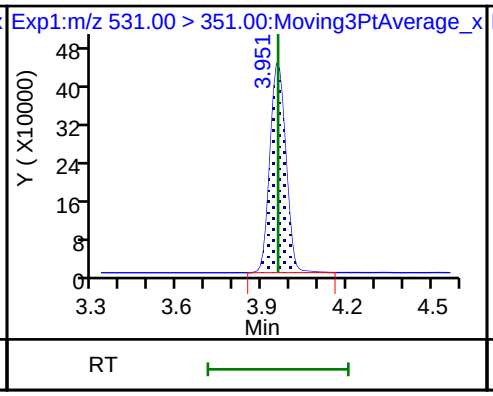
30 Perfluorononanoic acid



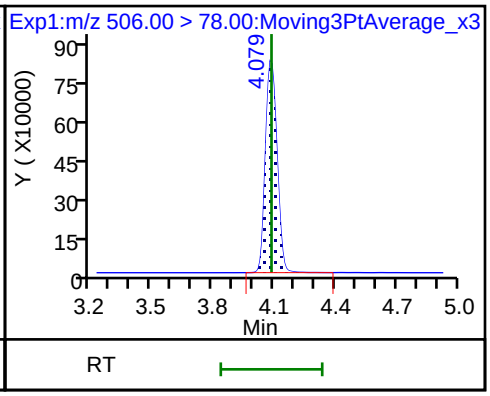
D 29 13C5 PFNA



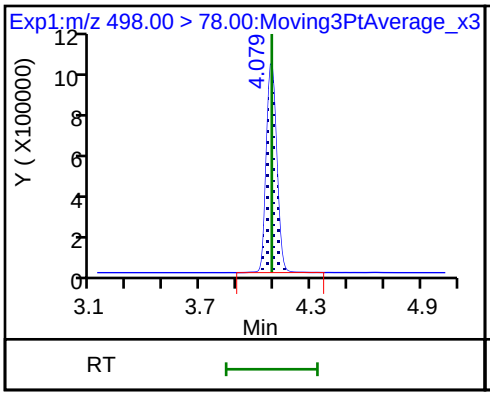
32 9-Chlorohexadecafluoro-3-oxanona



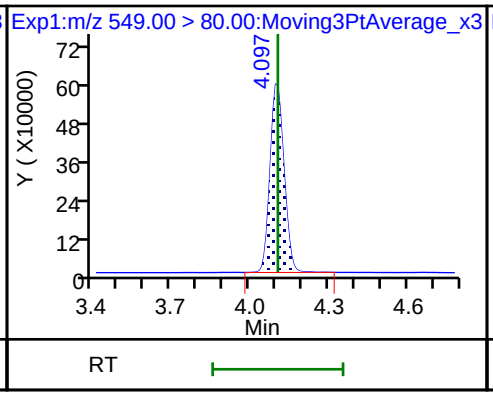
D 36 13C8 FOSA



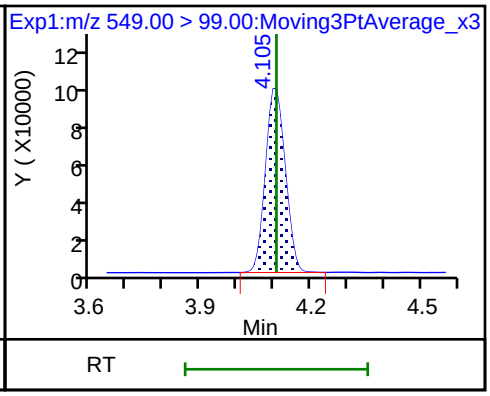
34 Perfluorooctanesulfonamide



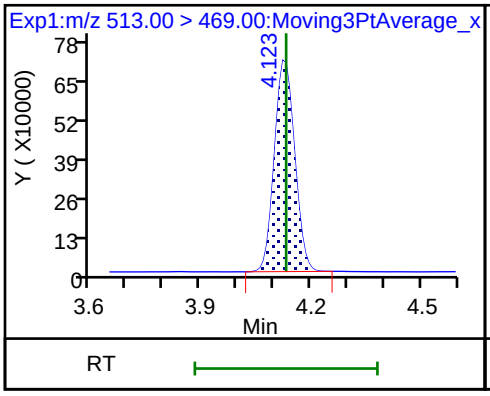
35 Perfluorononanesulfonic acid



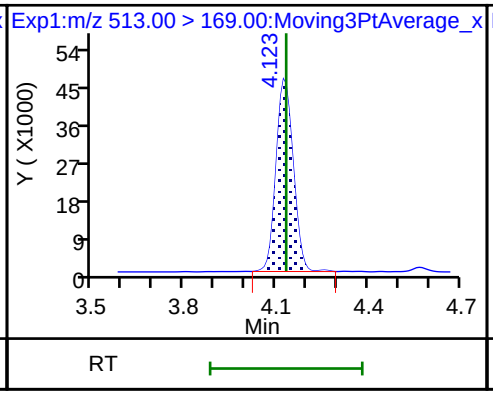
35 Perfluorononanesulfonic acid



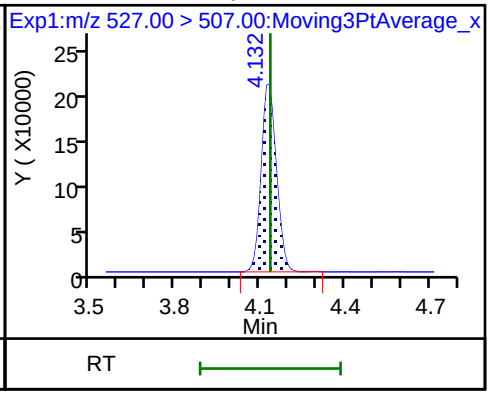
38 Perfluorodecanoic acid



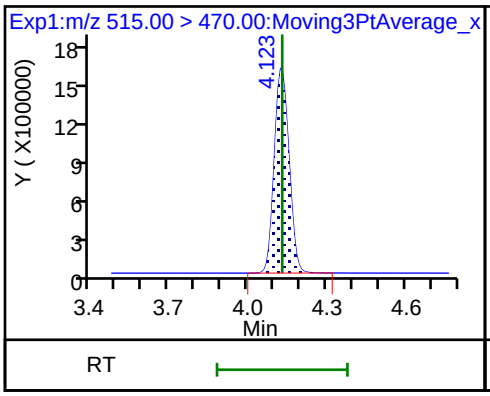
38 Perfluorodecanoic acid



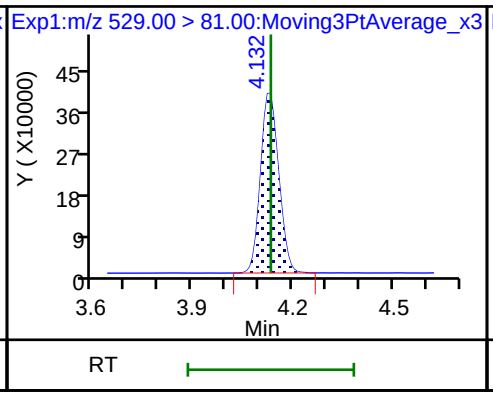
39 1H,1H,2H,2H-perfluorodecanesulfo



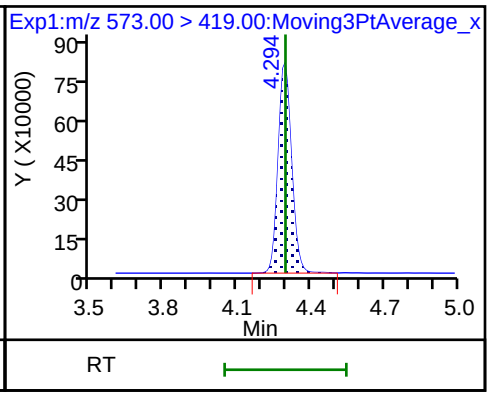
D 33 13C2 PFDA



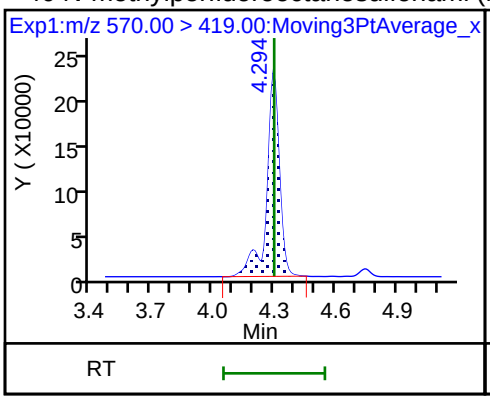
D 37 M2-8:2 FTS



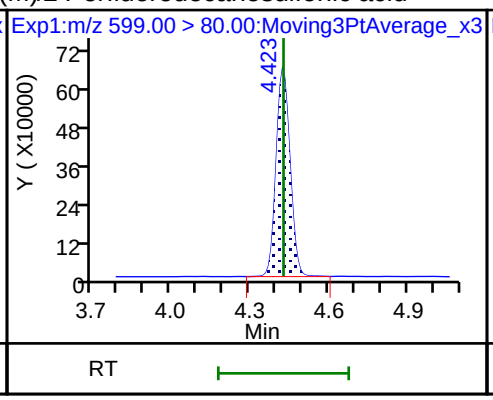
D 41 d3-NMeFOSAA



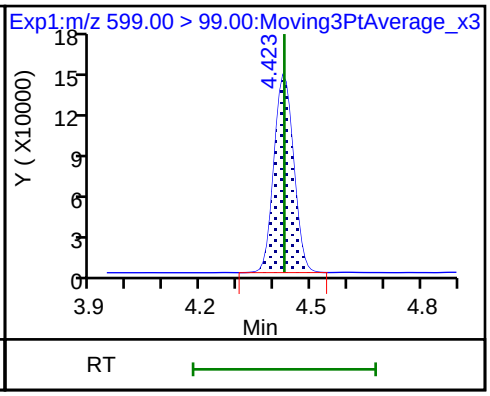
40 N-methylperfluorooctanesulfonami (M)



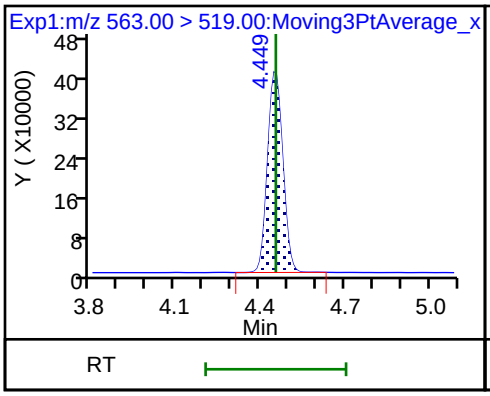
42 Perfluorodecanesulfonic acid



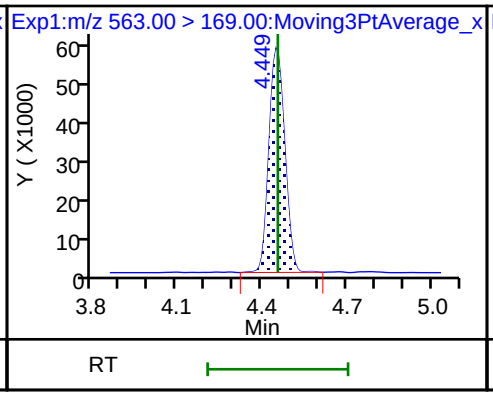
42 Perfluorodecanesulfonic acid



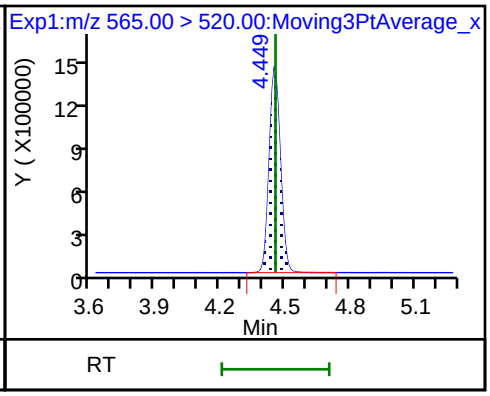
43 Perfluoroundecanoic acid



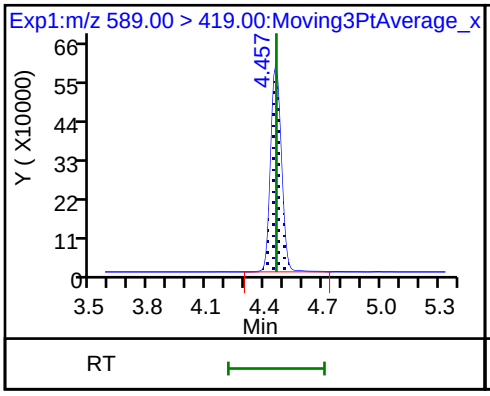
43 Perfluoroundecanoic acid



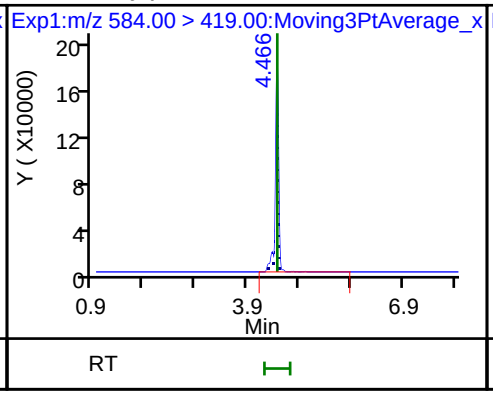
D 46 13C2 PFUnA



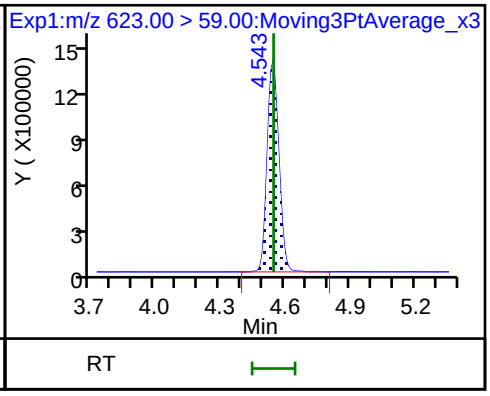
D 45 d5-NEtFOSAA



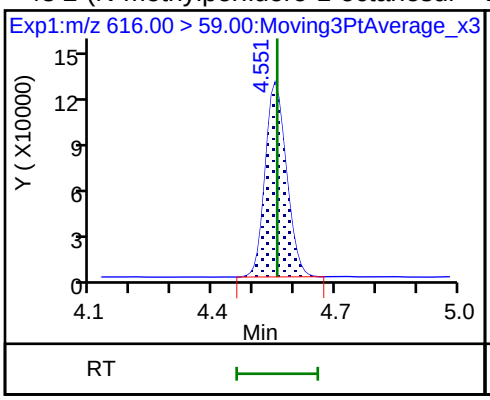
44 N-ethylperfluorooctanesulfonamid



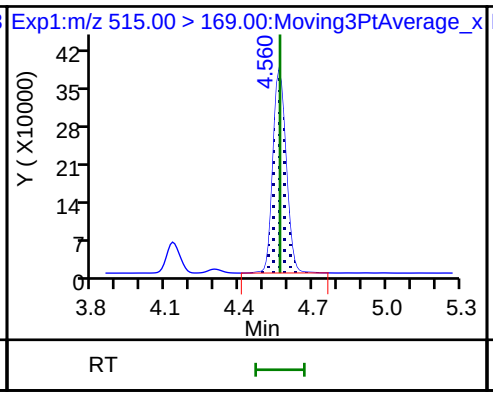
D 47 d7-N-MeFOSE-M



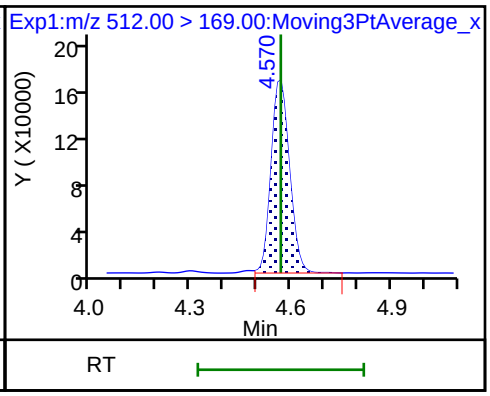
48 2-(N-methylperfluoro-1-octanesul



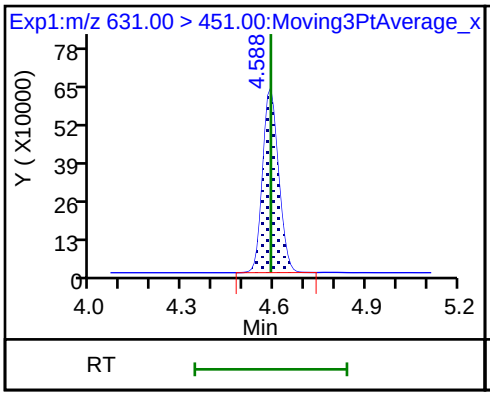
D 49 d-N-MeFOSA-M



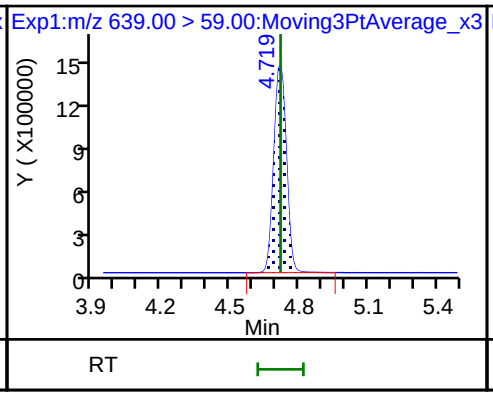
50 NMeFOSA



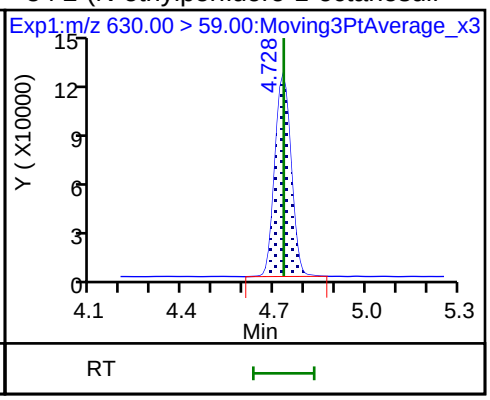
51 11-Chloroeicosafluoro-3-oxaundec



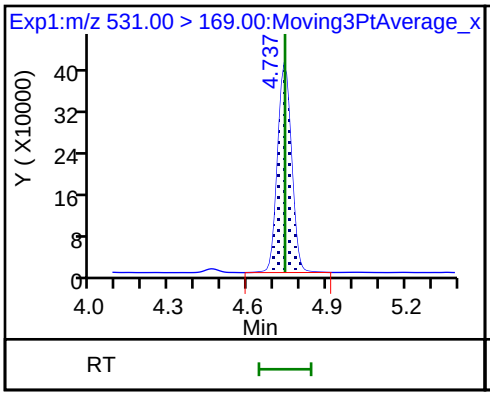
D 53 d9-N-EtFOSE-M



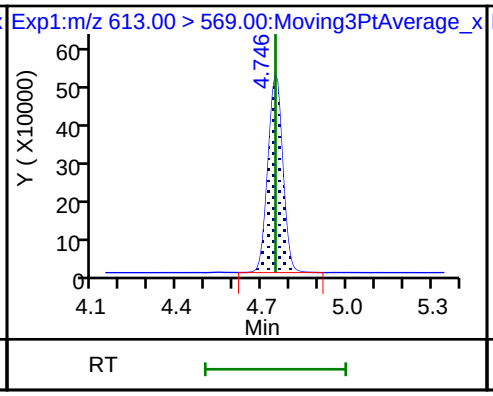
54 2-(N-ethylperfluoro-1-octanesulf



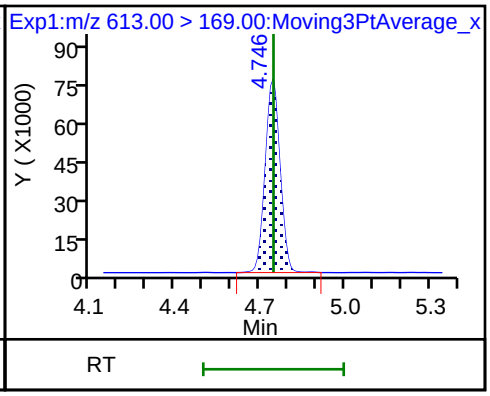
D 58 d-N-EtFOSA-M



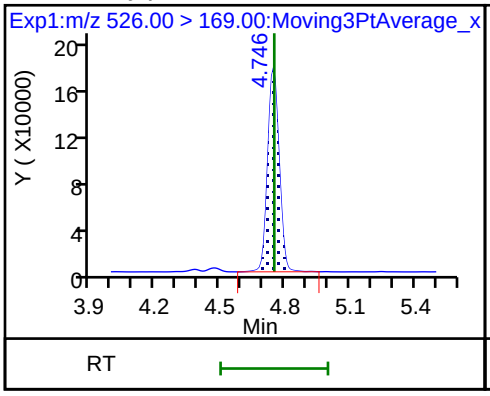
52 Perfluorododecanoic acid



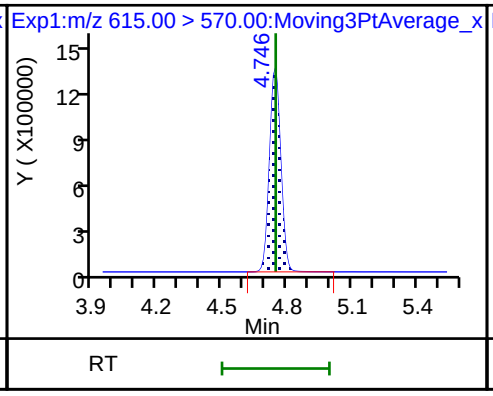
52 Perfluorododecanoic acid



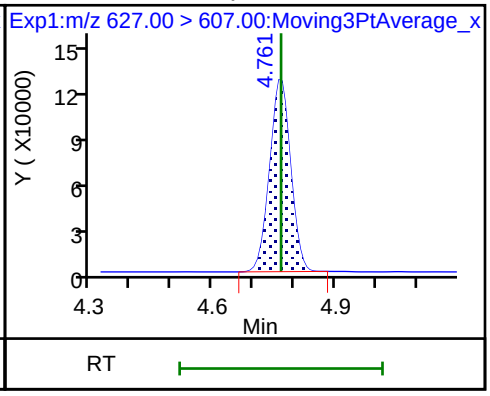
57 N-ethylperfluoro-1-octanesulfona



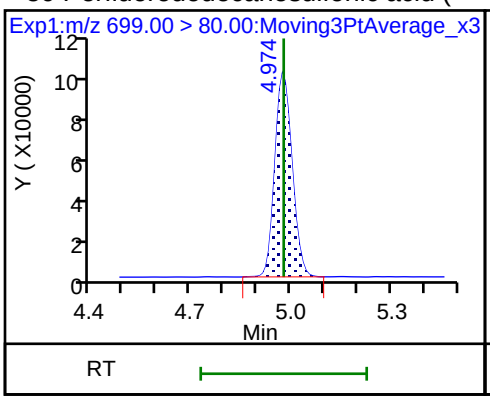
D 56 13C2 PFDoA



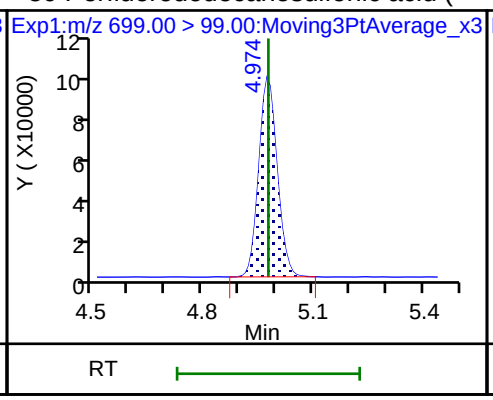
55 1H,1H,2H,2H-perfluorododecanesul



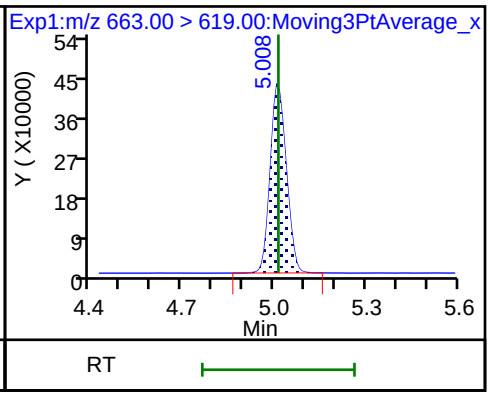
59 Perfluorododecanesulfonic acid (



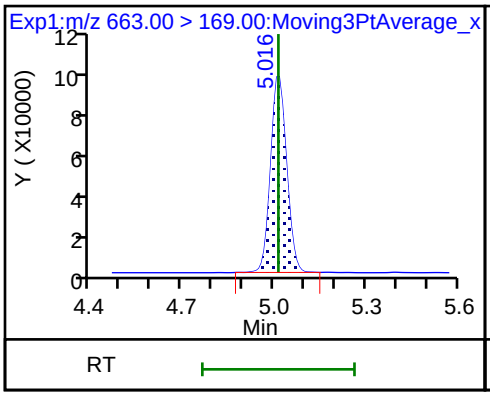
59 Perfluorododecanesulfonic acid (



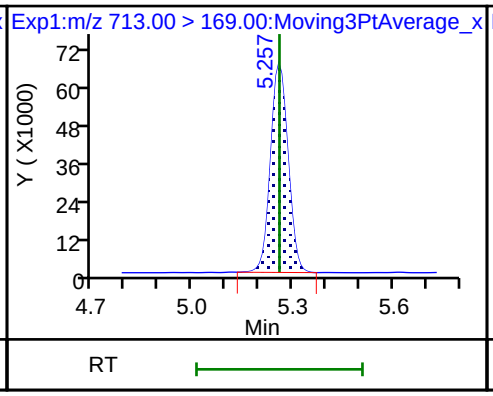
60 Perfluorotridecanoic acid



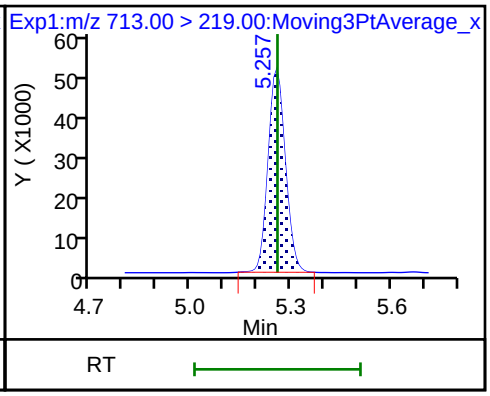
60 Perfluorotridecanoic acid



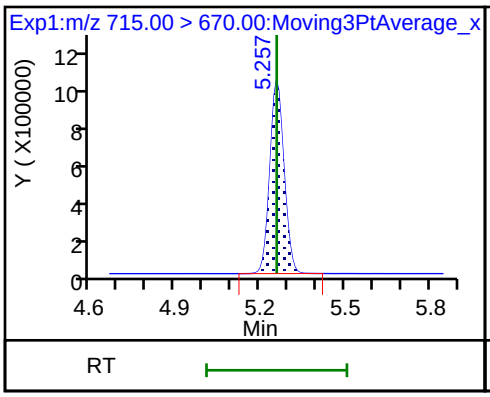
61 Perfluorotetradecanoic acid



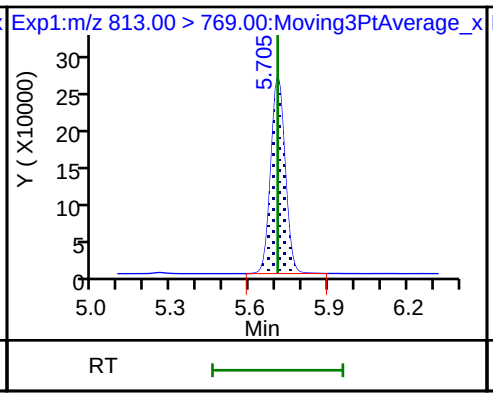
61 Perfluorotetradecanoic acid



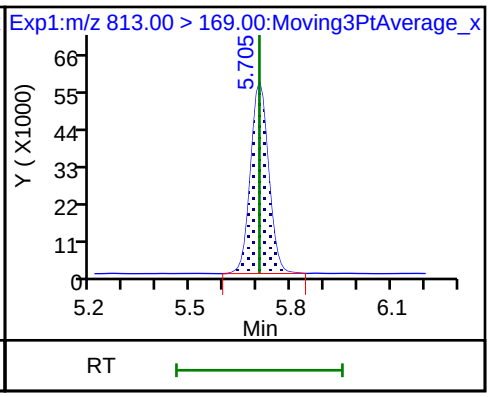
D 62 13C2 PFTeDA



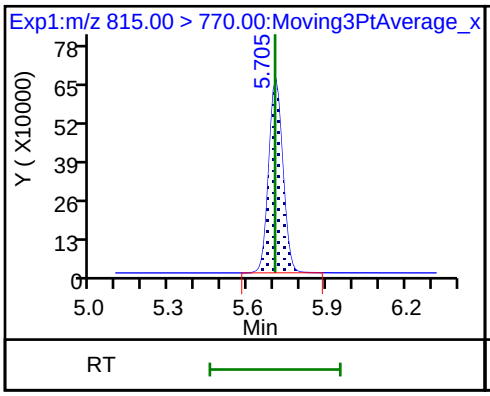
64 Perfluorohexadecanoic acid



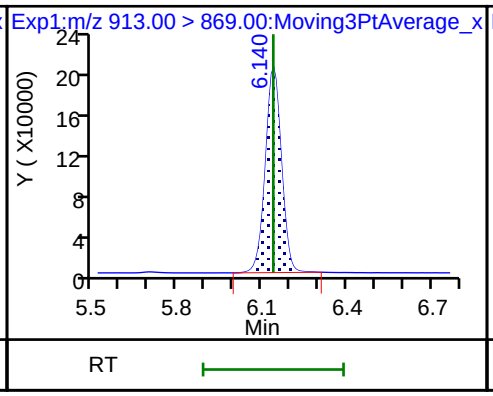
64 Perfluorohexadecanoic acid



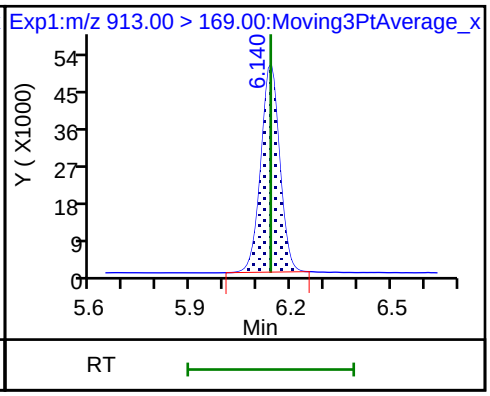
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

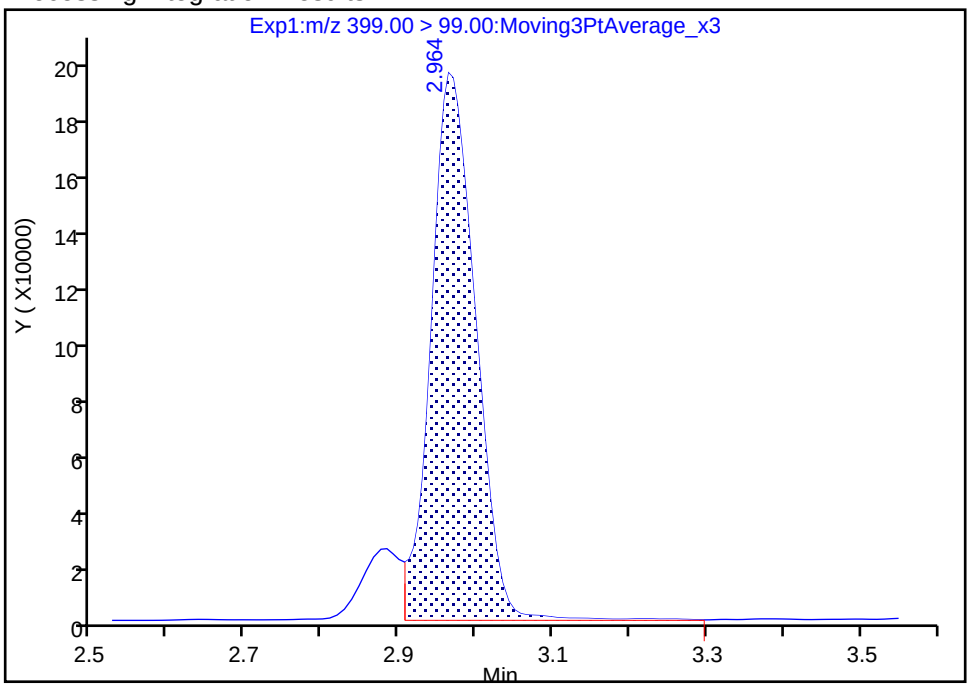
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_019.d				
Injection Date:	10-Sep-2020 10:46:36	Instrument ID:	A9		
Lims ID:	IC L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

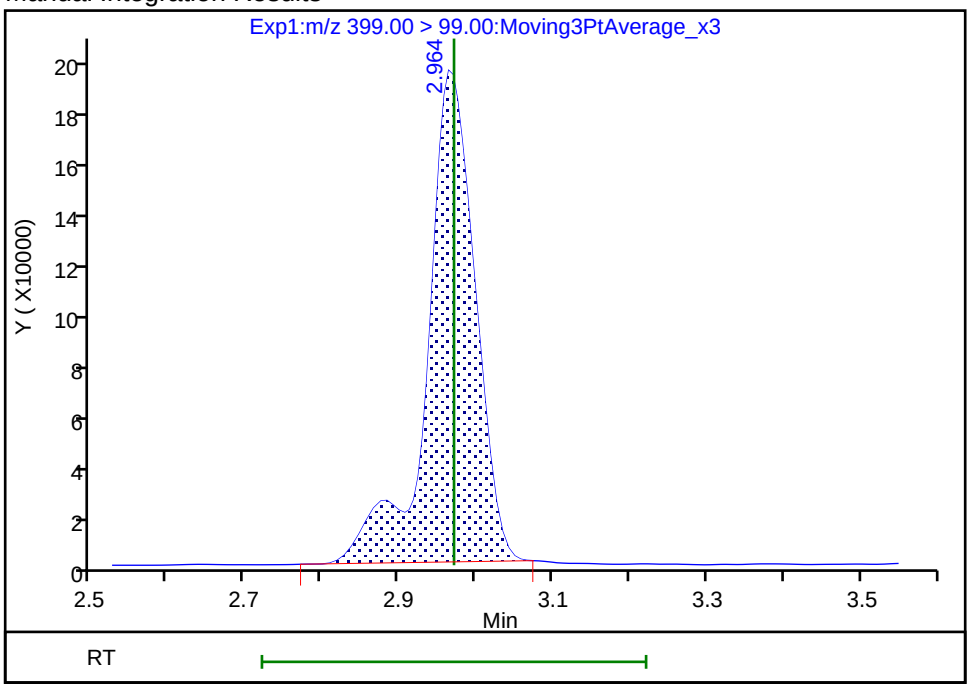
Processing Integration Results

RT: 2.96
Area: 760926
Amount: 0.876035
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 820713
Amount: 0.896225
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:21:14
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

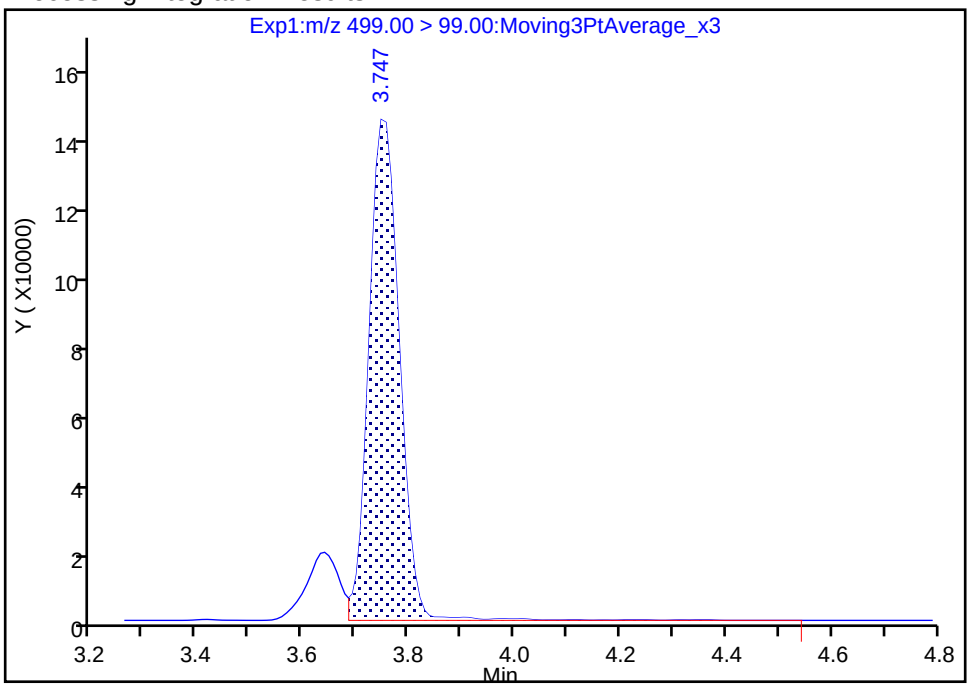
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_019.d
Injection Date: 10-Sep-2020 10:46:36 Instrument ID: A9
Lims ID: IC L4
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

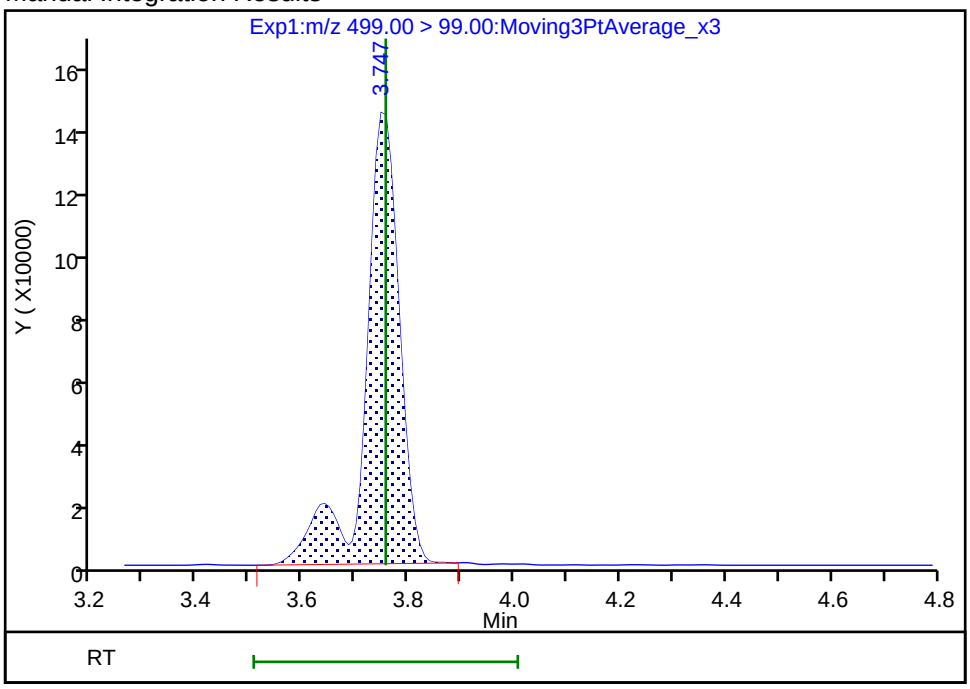
Processing Integration Results

RT: 3.75
Area: 581889
Amount: 0.951149
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 652160
Amount: 0.963666
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:21:37
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

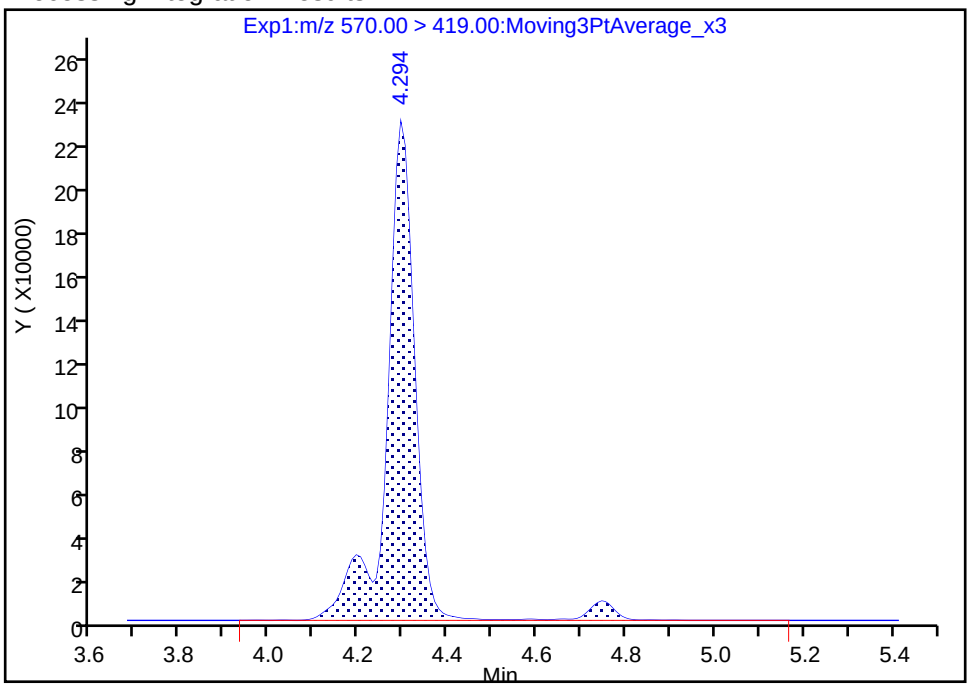
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_019.d				
Injection Date:	10-Sep-2020 10:46:36	Instrument ID:	A9		
Lims ID:	IC L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

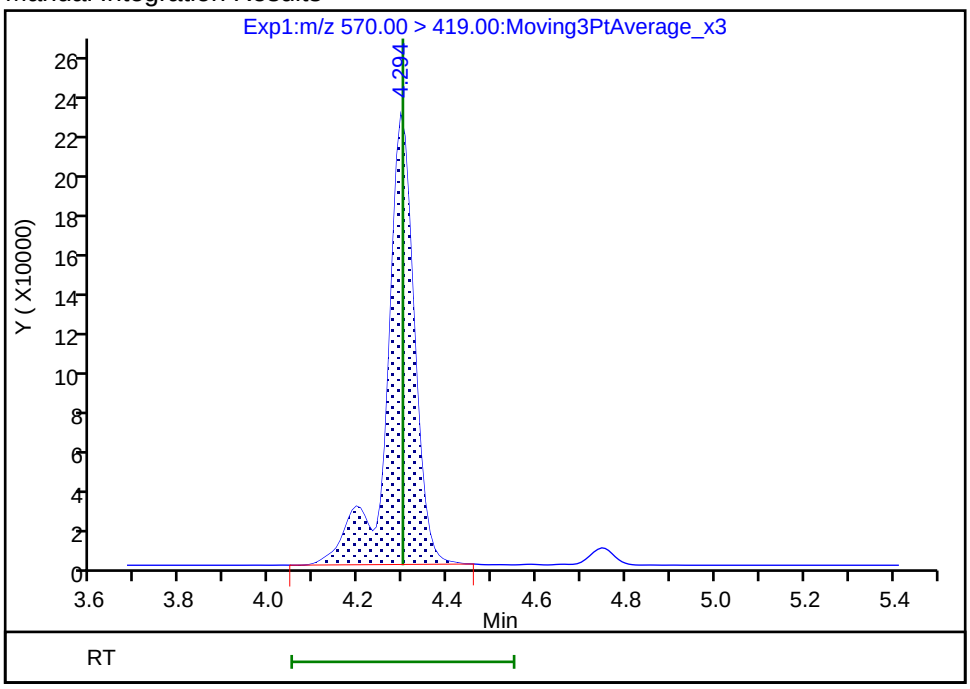
Processing Integration Results

RT: 4.29
Area: 1026488
Amount: 1.118458
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 980061
Amount: 1.044774
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:22:06

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_020.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Sep-2020 10:55:57 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD5_31
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:14:48 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 11:30:47
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.894	1.904	-0.010	1.000	7863642	2.81		112	520	
D 1 13C4 PFBA										
217.00 > 172.00	1.894	1.901	-0.007	0.563	8019248	2.51		101	3324	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.207	2.211	-0.004	1.000	6924391	2.60		104	583	
D 4 13C5 PFPeA										
267.90 > 223.00	2.207	2.211	-0.004	0.657	6547408	2.43		97.3	3312	
D 6 13C3 PFBS										
301.90 > 80.00	2.233	2.241	-0.008	0.664	12426682	2.34		101	3655	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.233	2.244	-0.011	1.000	12784101	2.40	Target=3.10	108	712	
298.90 > 99.00	2.233	2.244	-0.011	1.000	4164866		3.07(1.55-4.65)	108	899	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.526	2.533	-0.007	0.751	1223709	2.32		99.3	746	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.526	2.535	-0.009	1.000	2622239	2.53		108	8492	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.568	2.573	-0.005	1.000	5568440	2.80	Target=9.68	112	727	
313.00 > 119.00	2.568	2.573	-0.005	1.000	550520		10.11(4.84-14.52)	112	357	
D 10 13C2 PFHxA										
315.00 > 270.00	2.568	2.573	-0.005	0.764	5949563	2.38		95.1	2302	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.579	2.587	-0.008	1.155	5647334	2.63	Target=2.01	112	1088	
349.00 > 99.00	2.579	2.587	-0.008	1.155	2685469		2.10(1.00-3.01)	112	1481	
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.687	2.691	-0.004	1.000	1783468	2.69		108	2965	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.687	2.692	-0.005	0.799	4181969	2.44		97.4	4319	
D 15 13C4 PFHpA										
367.00 > 322.00	2.958	2.965	-0.007	0.880	6066212	2.49		99.7	3297	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.952	2.966	-0.014	0.998	7198107	2.67	Target=3.74	107	1261	
363.00 > 169.00	2.958	2.966	-0.008	1.000	1887305		3.81(1.87-5.61)	107	1446	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.958	2.971	-0.013	0.998	7166091	2.36	Target=3.29	104	1514137	
399.00 > 99.00	2.963	2.971	-0.008	1.000	2074536		3.45(1.65-4.94)	104	886	M
D 17 18O2 PFHxS										
403.00 > 84.00	2.963	2.969	-0.006	0.882	6098488	2.40		101	1936	
19 DONA										
377.00 > 251.00	3.010	3.017	-0.007	0.804	12286344	2.63	Target=1.80	112	6958	
377.00 > 85.00	3.010	3.017	-0.007	0.804	7243301		1.70(0.90-2.70)	112	6354	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.346	3.353	-0.007	1.000	1781972	2.56		108	2164	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.346	3.352	-0.006	0.995	1073906	2.36		99.4	942	
$ 21 13C8 PFOA										
421.00 > 376.00	3.354	3.362	-0.008	0.998	4876993	2.55		104	6257	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.361	3.369	-0.008	0.897	6516571	2.73	Target=3.65	115	2166	
449.00 > 99.00	3.361	3.369	-0.008	0.897	1681078		3.88(1.83-5.48)	115	1743	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.361	3.375	-0.014	0.997	6159339	2.49	Target=2.37	99.4	1082	
413.00 > 169.00	3.361	3.375	-0.014	0.997	2500674		2.46(1.19-3.56)	99.4	2185	
* 25 13C2 PFOA										
415.00 > 370.00	3.361	3.376	-0.015		5909870	2.50			5366	
D 26 13C4 PFOA										
417.00 > 372.00	3.370	3.376	-0.006	1.003	5743064	2.52		101	5214	
$ 27 13C8 PFOS										
507.00 > 99.00	3.737	3.748	-0.011	1.112	1357043	2.26		94.5	2108	
D 31 13C4 PFOS										
503.00 > 80.00	3.746	3.756	-0.010	1.114	6160459	2.32		97.1	1415	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.746	3.756	-0.010	1.000	6924966	2.58	Target=4.12	111	649	M
499.00 > 99.00	3.746	3.756	-0.010	1.000	1636862		4.23(2.06-6.17)	111	1613	M
30 Perfluorononanoic acid										
463.00 > 419.00	3.764	3.770	-0.006	1.002	5380779	2.61	Target=4.21	104	3623	
463.00 > 169.00	3.764	3.770	-0.006	1.002	1265200		4.25(2.11-6.32)	104	1816	
D 29 13C5 PFNA										
468.00 > 423.00	3.755	3.767	-0.012	1.117	5174599	2.61		105	4196	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.949	3.956	-0.007	1.054	4486251	2.77		119	6540	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.077	4.086	-0.009	1.000	9052662	2.62		105	2706	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C8 FOSA										
506.00 > 78.00	4.077	4.086	-0.009	1.213	3100275	2.48		99.4	3024	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.095	4.106	-0.011	1.093	5081895	2.60	Target=5.56	108	1763	
549.00 > 99.00	4.095	4.106	-0.011	1.093	846532		6.00(2.78-8.34)	108	2580	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.122	4.132	-0.010	1.000	6816935	2.71	Target=14.33	108	2959	
513.00 > 169.00	4.122	4.132	-0.010	1.000	460697		14.80(7.16-21.49)	108	400	
D 33 13C2 PFDA										
515.00 > 470.00	4.122	4.130	-0.008	1.226	6303374	2.51		100	4120	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.122	4.135	-0.013	1.000	1777666	2.63		110	2823	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.122	4.133	-0.011	1.226	1254651	2.25		94.0	855	
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.293	4.299	-0.006	1.002	2448364	2.65		106	396	M
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.283	4.295	-0.012	1.274	3043182	2.44		97.4	2867	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.421	4.427	-0.006	1.180	6094197	2.78	Target=4.29	116	2236	
599.00 > 99.00	4.421	4.427	-0.006	1.180	1279471		4.76(2.15-6.44)	116	4186	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.447	4.455	-0.008	1.000	3702181	2.69	Target=6.74	108	4547	
563.00 > 169.00	4.447	4.455	-0.008	1.000	562007		6.59(3.37-10.11)	108	1599	
D 46 13C2 PFUnA										
565.00 > 520.00	4.447	4.455	-0.008	1.323	4942965	2.55		102	7236	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.456	4.460	-0.004	1.326	2127548	2.54		102	2100	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.456	4.467	-0.011	1.000	1712166	2.48		99.2	1528	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.541	4.546	-0.005	1.351	5063638	12.6		101	4338	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.550	4.557	-0.007	1.002	1144996	2.71		108	2086	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.558	4.565	-0.007	1.356	1390439	2.47		98.9	215	
50 NMeFOSA										
512.00 > 169.00	4.558	4.569	-0.011	1.000	1653934	2.85		114	1679	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.577	4.588	-0.011	1.222	5572953	2.92		124	5289	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.707	4.718	-0.011	1.400	5391350	12.8		102	3536	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.726	4.731	-0.005	1.004	1120322	2.61		105	1875	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.735	4.741	-0.006	1.409	1437287	2.46		98.5	766	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
52 Perfluorododecanoic acid										
613.00 > 569.00	4.735	4.747	-0.012	1.000	4657557	2.66	Target=6.67	106	3856	
613.00 > 169.00	4.735	4.747	-0.012	1.000	649766		7.17(3.34-10.01)	106	2502	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.744	4.749	-0.005	1.002	1554311	2.72		109	749	
D 56 13C2 PFDoA										
615.00 > 570.00	4.735	4.747	-0.012	1.409	4759594	2.50		100	9147	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.759	4.766	-0.007	1.155	1135361	2.64		109	3089	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.972	4.978	-0.006	1.327	893169	2.73	Target=1.02	113	1710	
699.00 > 99.00	4.972	4.978	-0.006	1.327	842446		1.06(0.51-1.53)	113	5224	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.006	5.013	-0.007	1.057	3844406	2.78	Target=4.80	111	5918	
663.00 > 169.00	5.006	5.013	-0.007	1.057	802558		4.79(2.40-7.20)	111	2402	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.256	5.259	-0.003	1.002	593557	2.55	Target=1.37	102	1996	
713.00 > 219.00	5.247	5.259	-0.012	1.000	431586		1.38(0.69-2.06)	102	2053	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.247	5.258	-0.011	1.561	3301033	2.49		99.5	7988	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.701	5.705	-0.004	1.002	2210855	2.68	Target=4.63	107	3597	
813.00 > 169.00	5.701	5.705	-0.004	1.002	467070		4.73(2.32-6.95)	107	2912	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.692	5.703	-0.011	1.693	2234345	2.28		91.1	4391	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.137	6.139	-0.002	1.078	2124571	3.18	Target=4.01	127	1940	
913.00 > 169.00	6.137	6.139	-0.002	1.078	501524		4.24(2.01-6.02)	127	1371	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL5_00032 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:14:51 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_020.d

Injection Date: 10-Sep-2020 10:55:57 Instrument ID: A9

Lims ID: IC L5

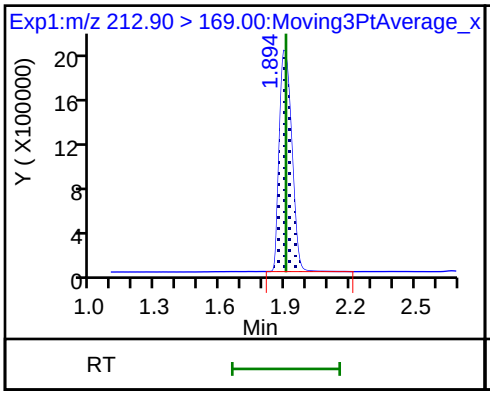
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 14 Worklist Smp#: 6

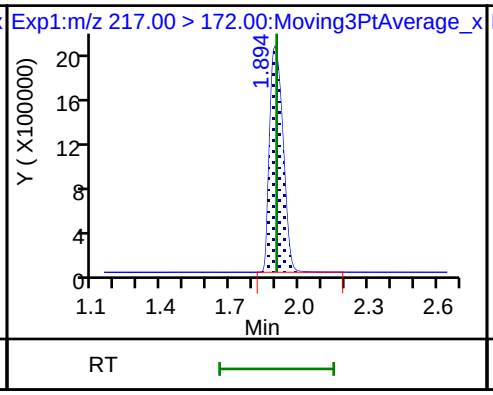
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

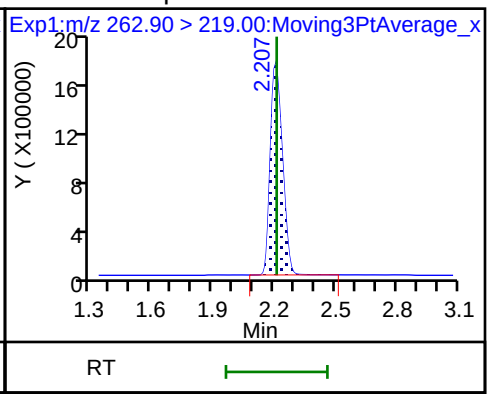
2 Perfluorobutanoic acid



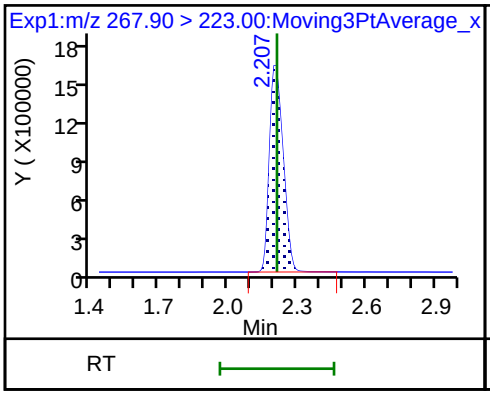
D 1 13C4 PFBA



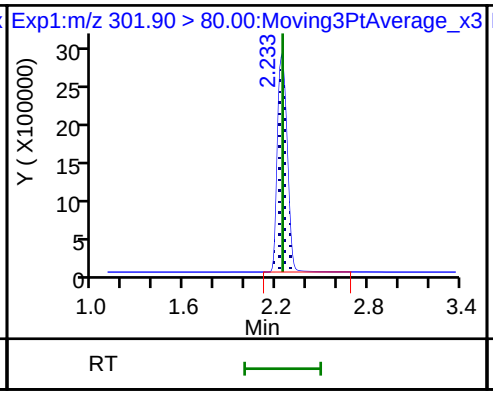
3 Perfluoropentanoic acid



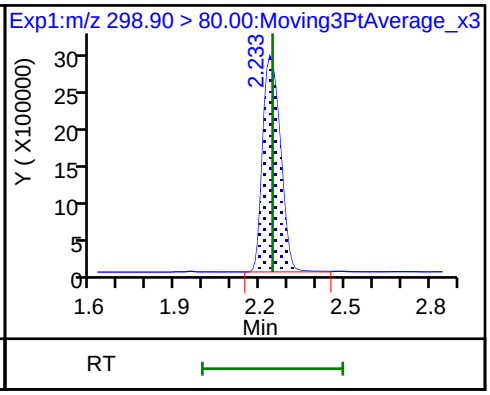
D 4 13C5 PFPeA



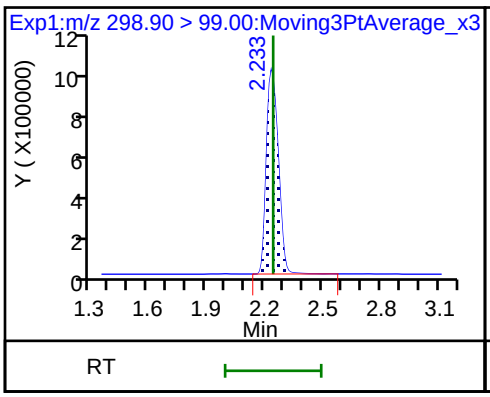
D 6 13C3 PFBS



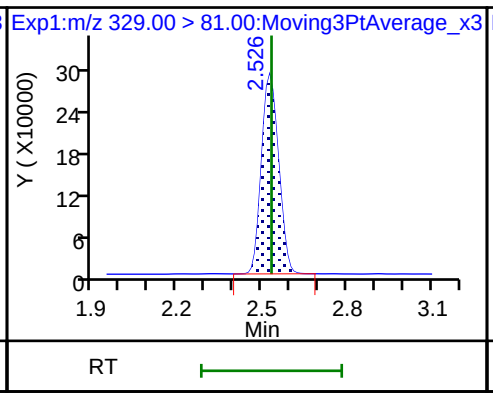
5 Perfluorobutanesulfonic acid



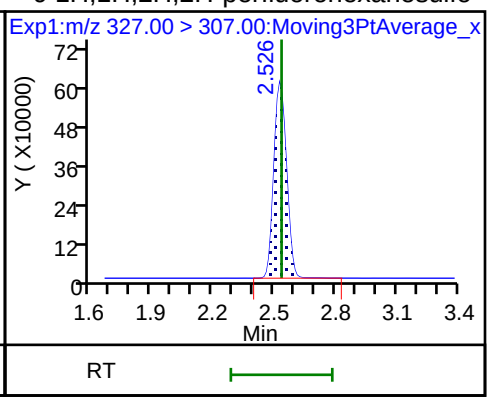
5 Perfluorobutanesulfonic acid



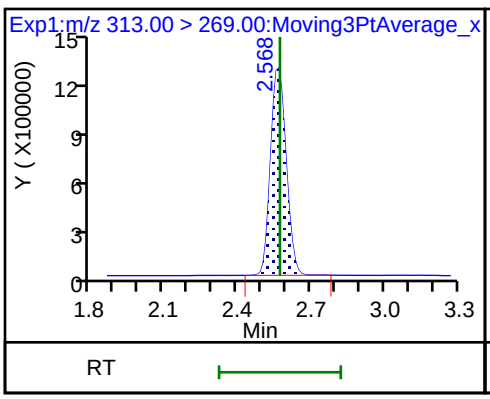
D 8 M2-4:2 FTS



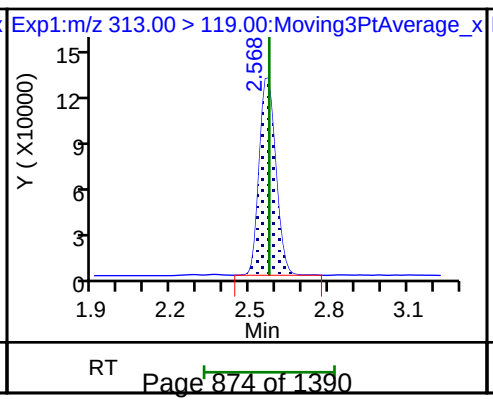
9 1H,1H,2H,2H-perfluorohexanesulfo



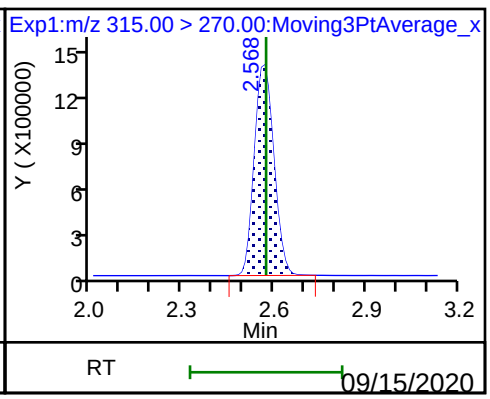
11 Perfluorohexanoic acid



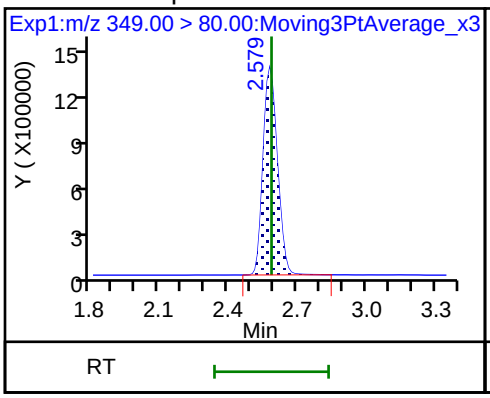
11 Perfluorohexanoic acid



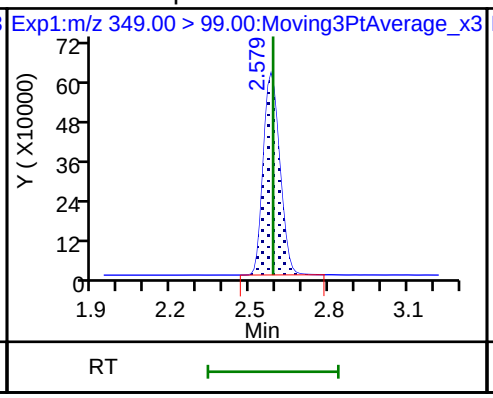
D 10 13C2 PFHxA



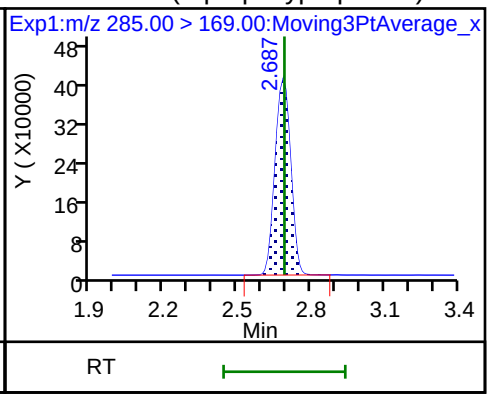
12 Perfluoropentanesulfonic acid



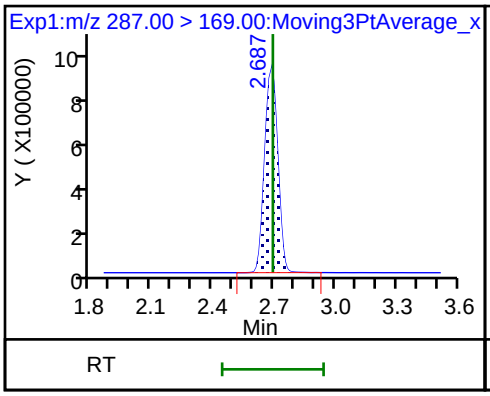
12 Perfluoropentanesulfonic acid



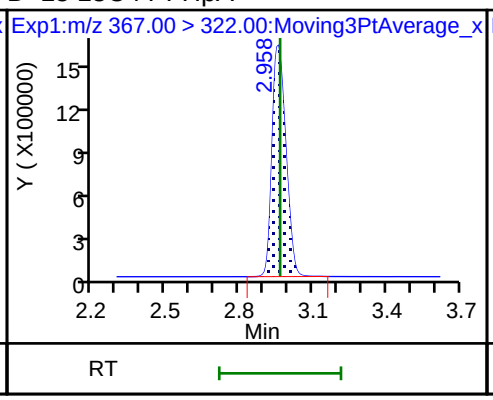
14 Perfluoro(2-propoxypropanoic) ac



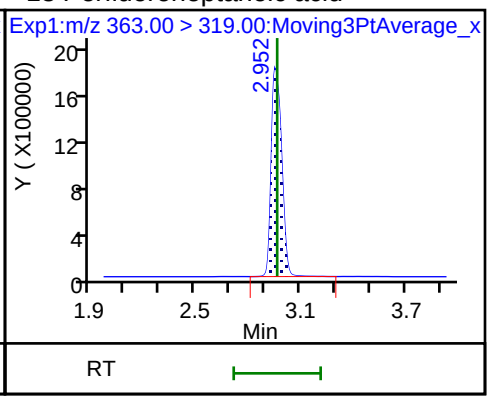
D 13 13C3 HFPO-DA



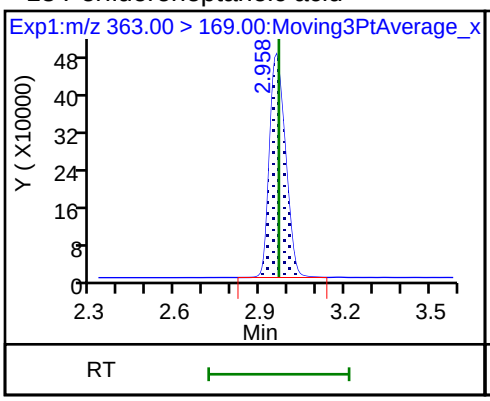
D 15 13C4 PFHpA



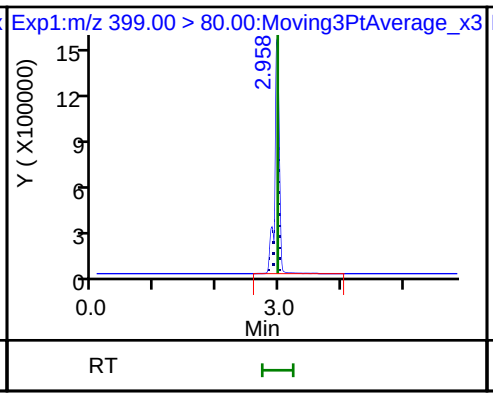
18 Perfluoroheptanoic acid



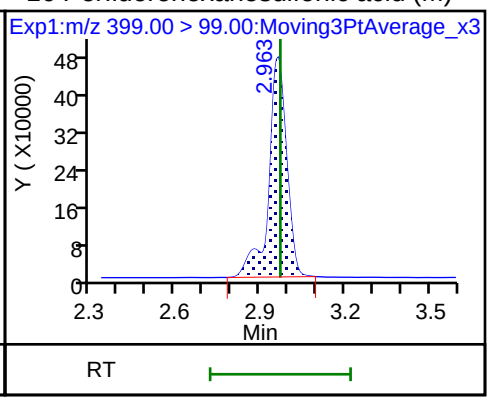
18 Perfluoroheptanoic acid



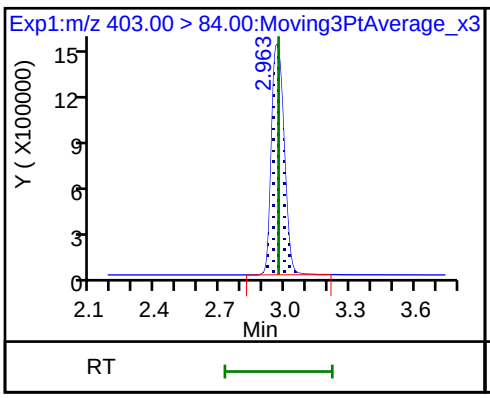
16 Perfluorohexanesulfonic acid



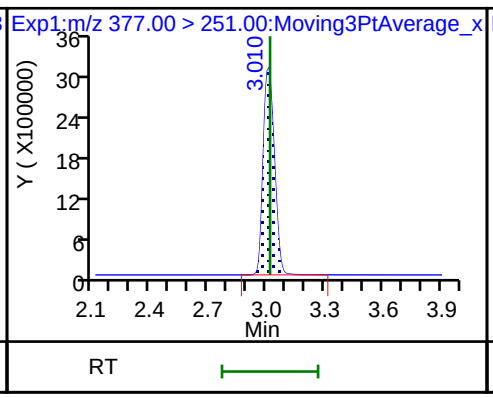
16 Perfluorohexanesulfonic acid (M)



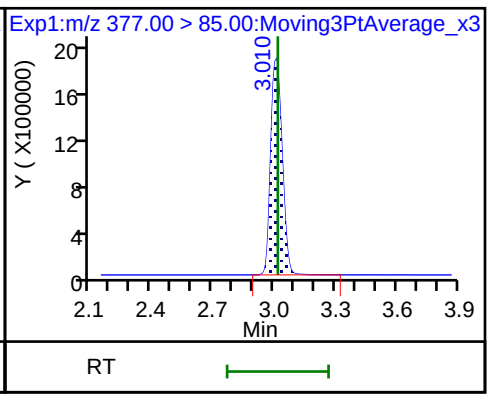
D 17 18O2 PFHxS



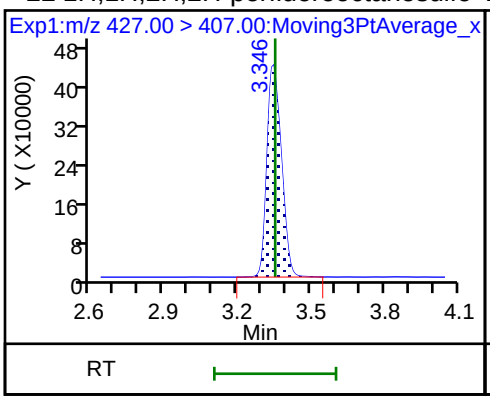
19 DONA



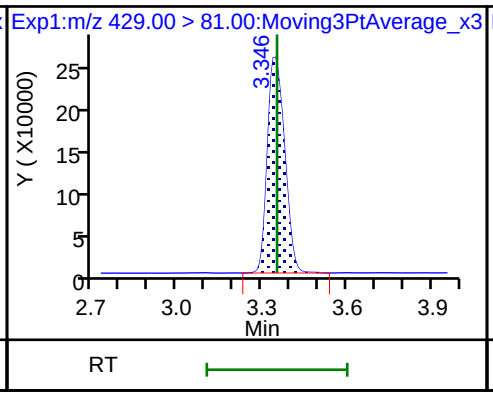
19 DONA



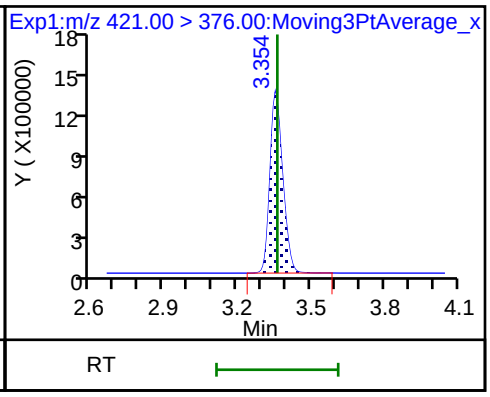
22 1H,1H,2H,2H-perfluorooctanesulfo



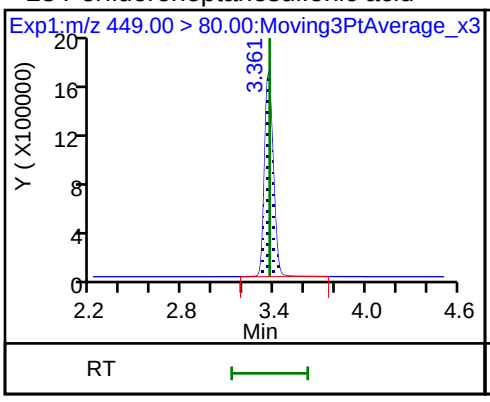
D 20 M2-6:2 FTS



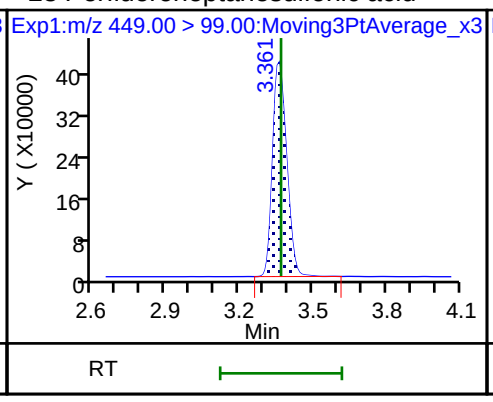
$ 21 13C8 PFOA



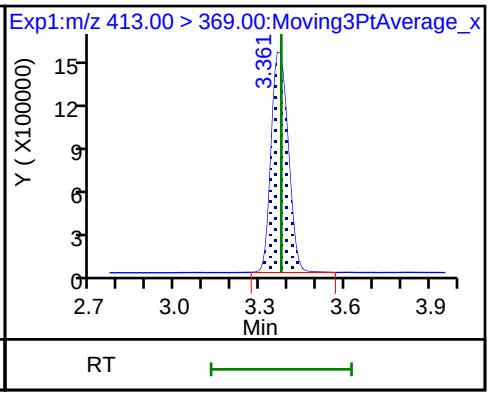
23 Perfluoroheptanesulfonic acid



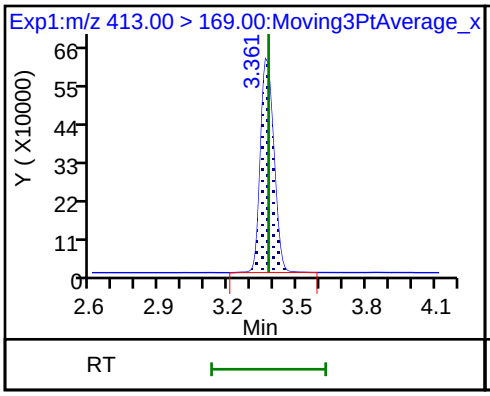
23 Perfluoroheptanesulfonic acid



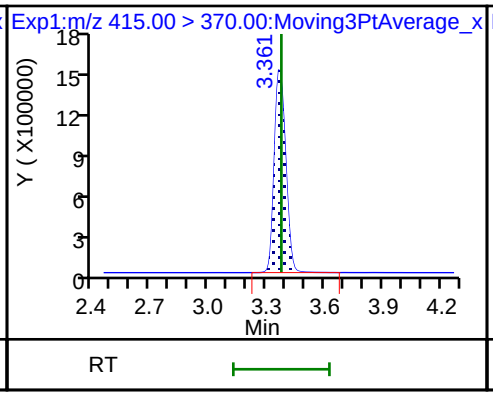
24 Perfluorooctanoic acid



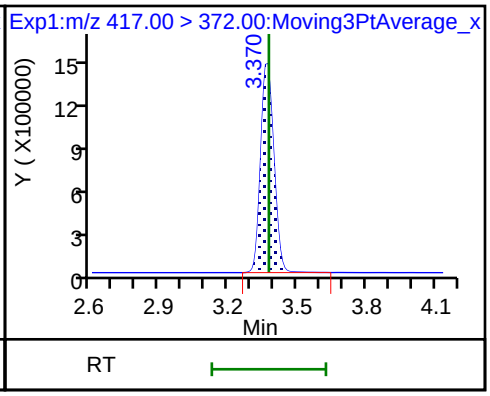
24 Perfluorooctanoic acid



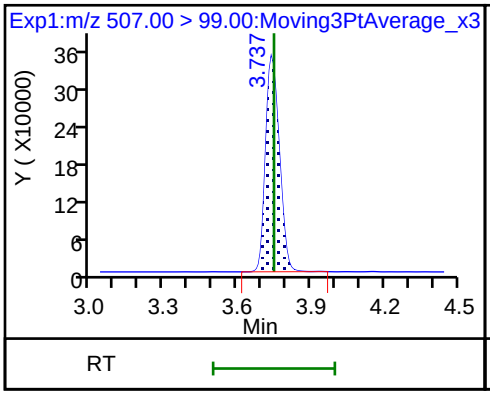
* 25 13C2 PFOA



D 26 13C4 PFOA



$ 27 13C8 PFOS



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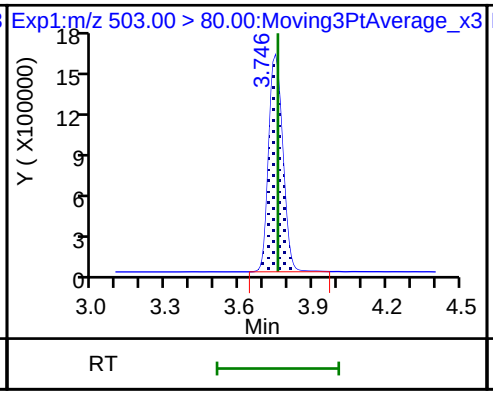
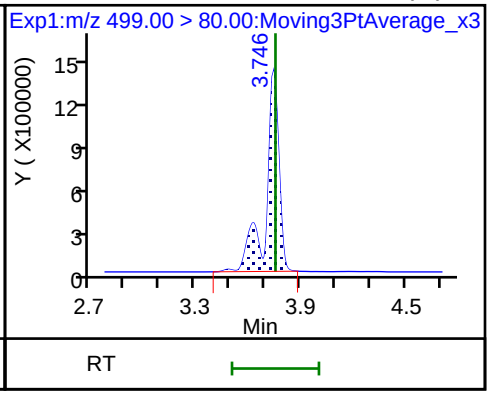
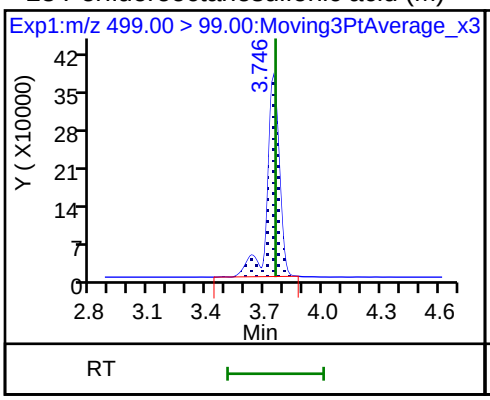


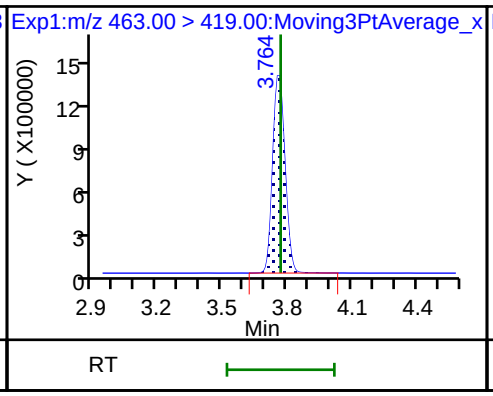
28 Perfluorooctanesulfonic acid (M)



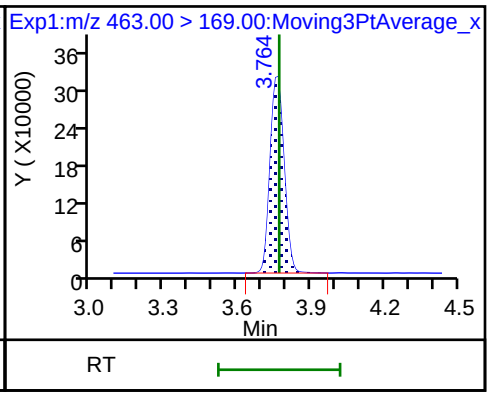
28 Perfluorooctanesulfonic acid (M)



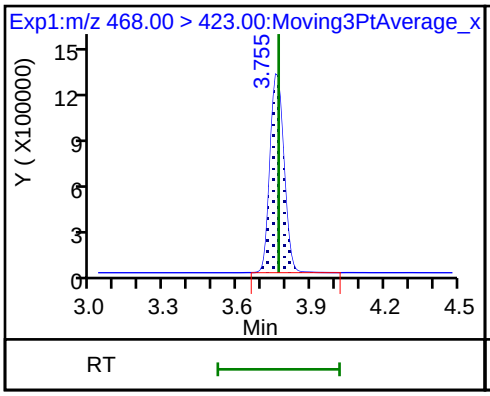
30 Perfluorononanoic acid



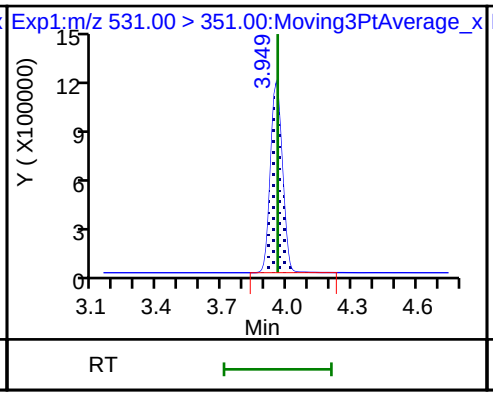
30 Perfluorononanoic acid



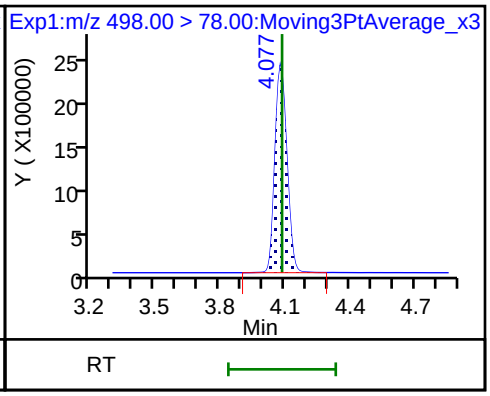
D 29 13C5 PFNA



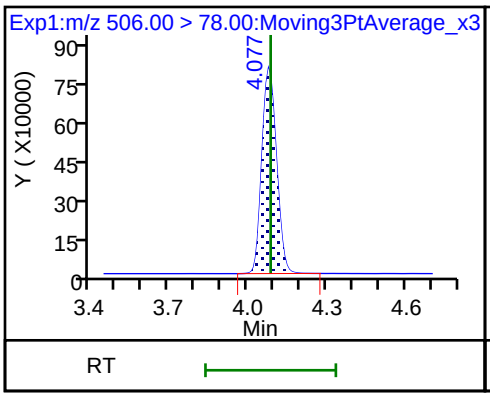
32 9-Chlorohexadecafluoro-3-oxanona



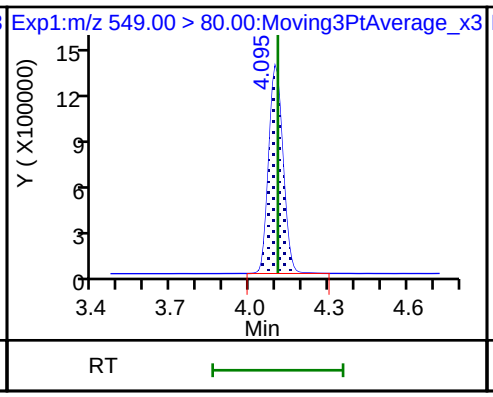
34 Perfluorooctanesulfonamide



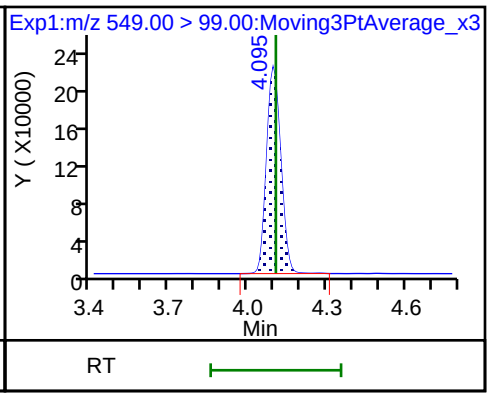
D 36 13C8 FOSA



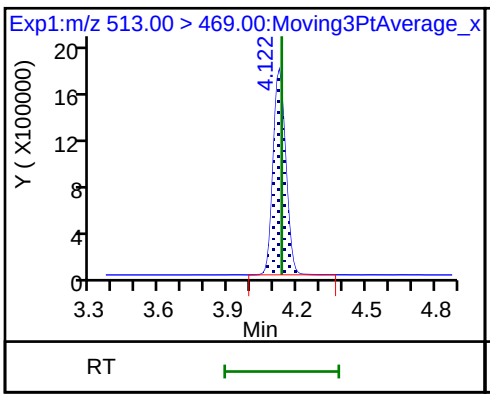
35 Perfluorononanesulfonic acid



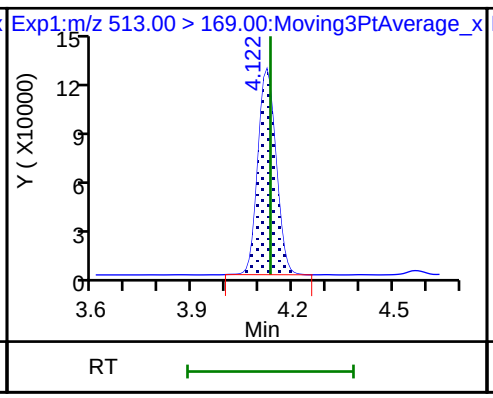
35 Perfluorononanesulfonic acid



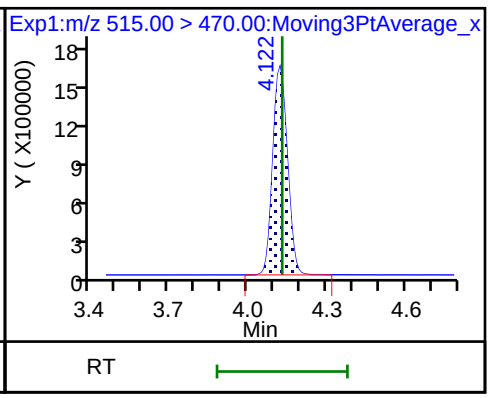
38 Perfluorodecanoic acid



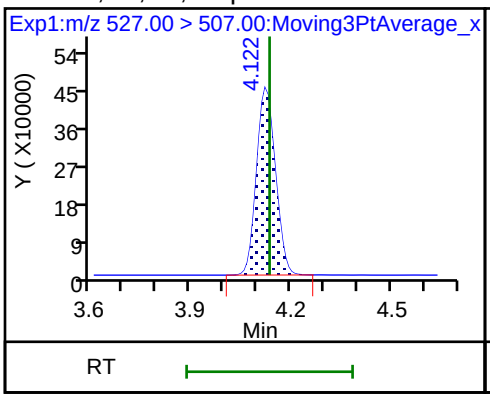
38 Perfluorodecanoic acid



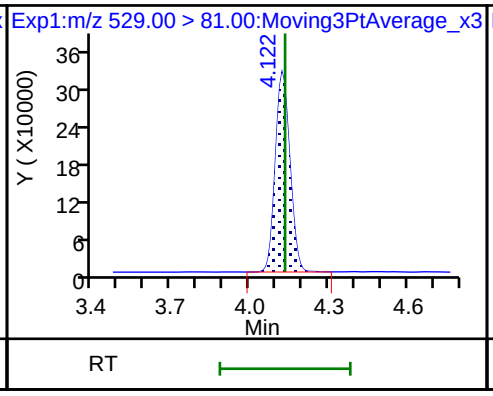
D 33 13C2 PFDA



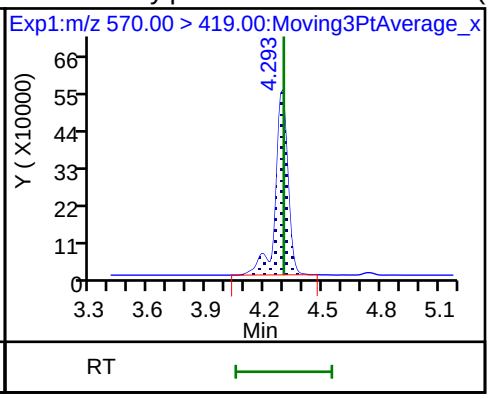
39 1H,1H,2H,2H-perfluorodecanesulfo



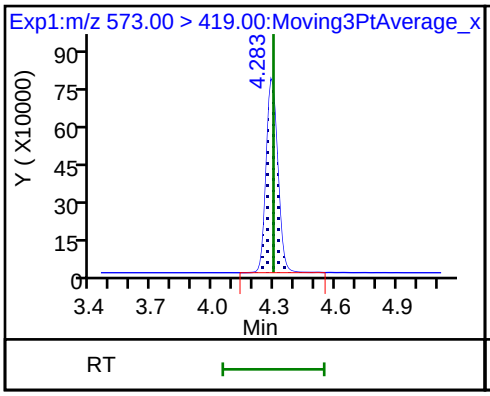
D 37 M2-8:2 FTS



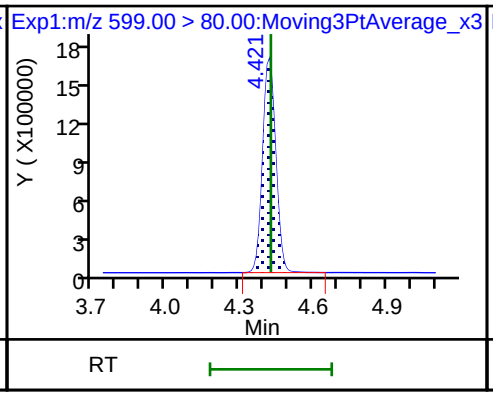
40 N-methylperfluorooctanesulfonami (M)



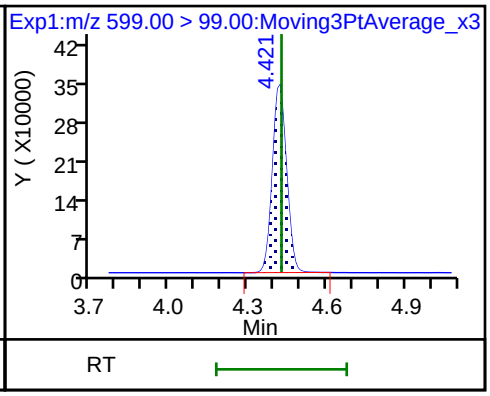
D 41 d3-NMeFOSAA



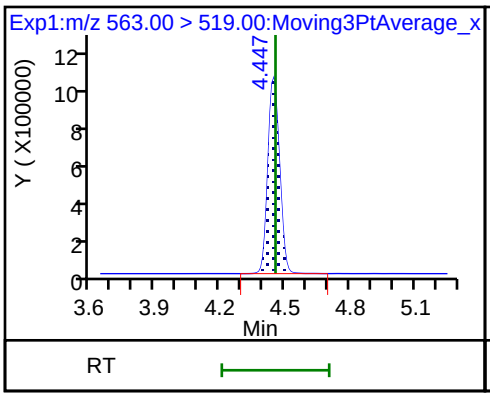
42 Perfluorodecanesulfonic acid



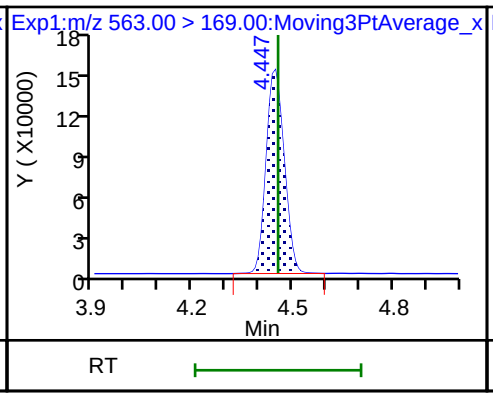
42 Perfluorodecanesulfonic acid



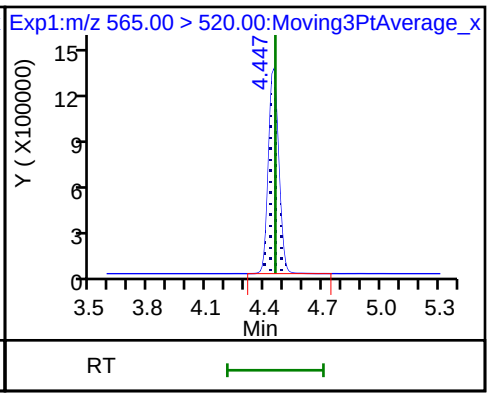
43 Perfluoroundecanoic acid



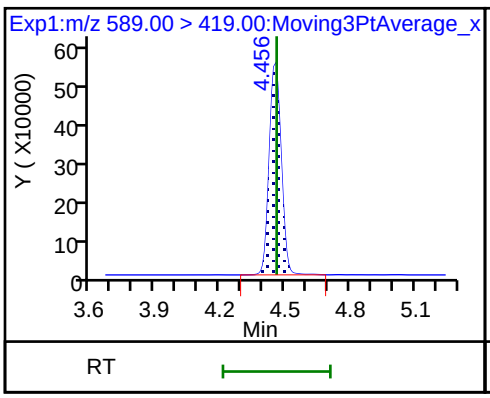
43 Perfluoroundecanoic acid



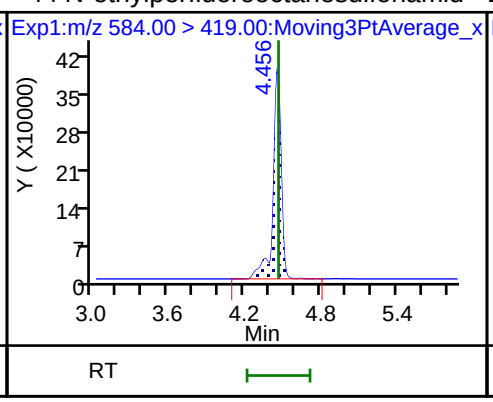
D 46 13C2 PFUnA



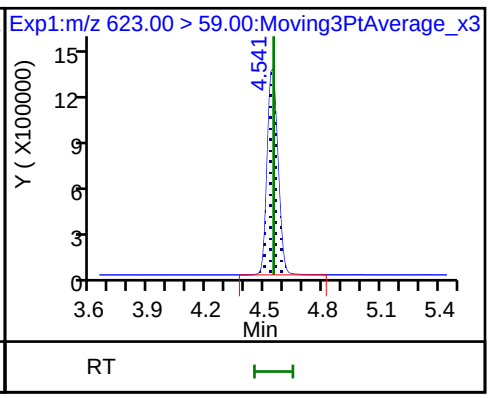
D 45 d5-NEtFOSAA



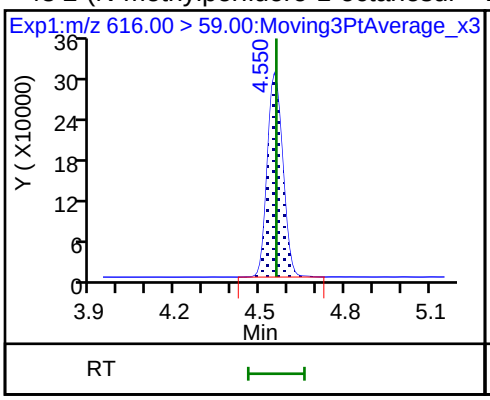
44 N-ethylperfluorooctanesulfonamid



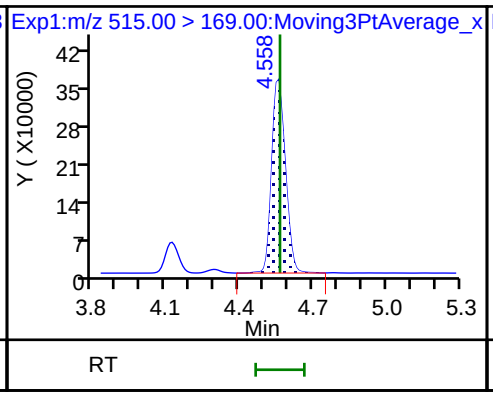
D 47 d7-N-MeFOSE-M



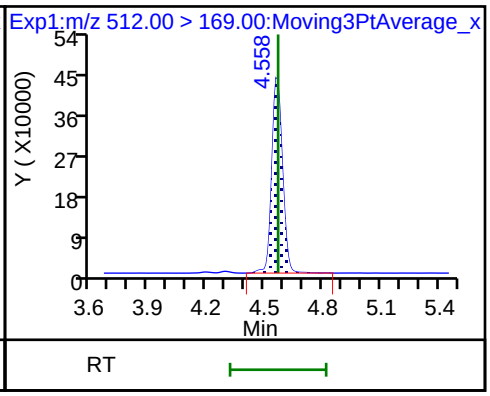
48 2-(N-methylperfluoro-1-octanesul



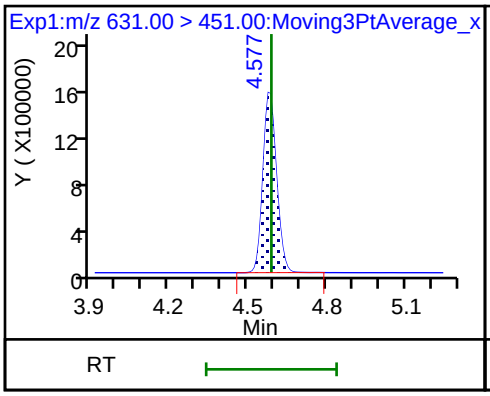
D 49 d-N-MeFOSA-M



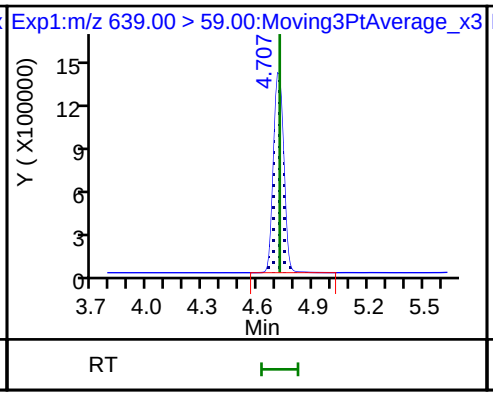
50 NMeFOSA



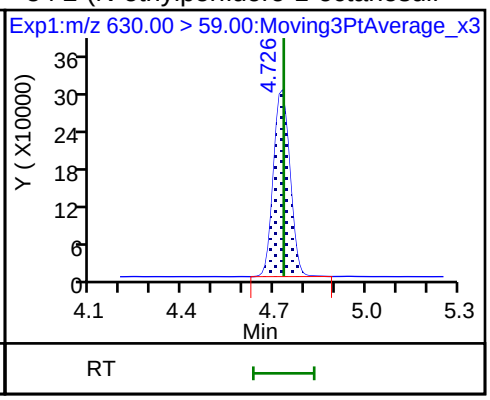
51 11-Chloroeicosafluoro-3-oxaundec



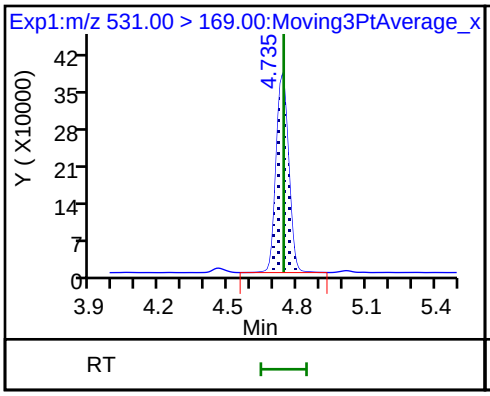
D 53 d9-N-EtFOSE-M



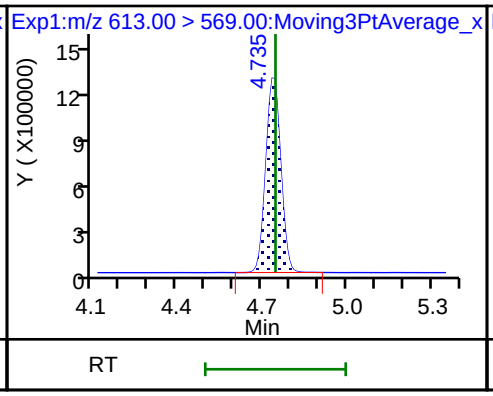
54 2-(N-ethylperfluoro-1-octanesulf



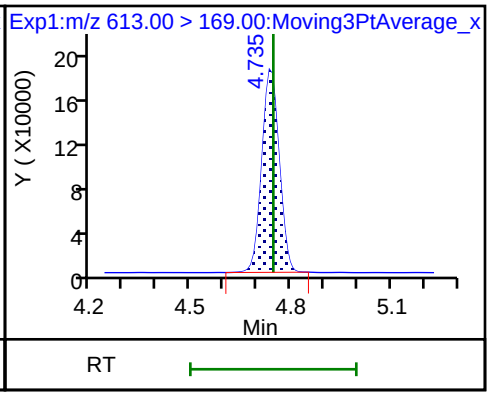
D 58 d-N-EtFOSA-M



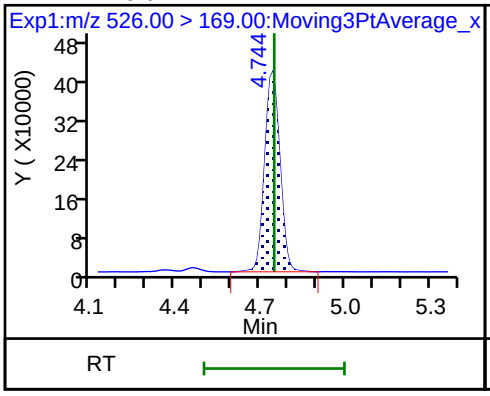
52 Perfluorododecanoic acid



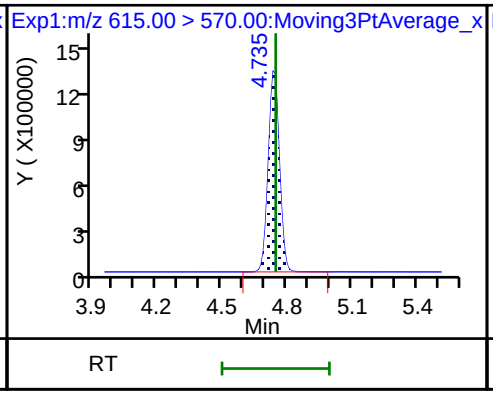
52 Perfluorododecanoic acid



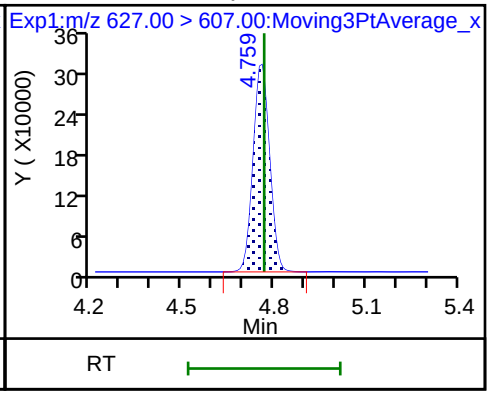
57 N-ethylperfluoro-1-octanesulfona



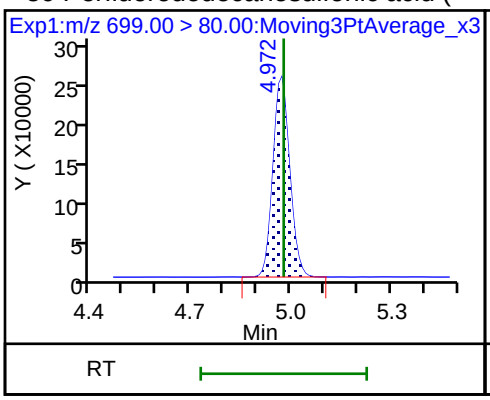
D 56 13C2 PFDoA



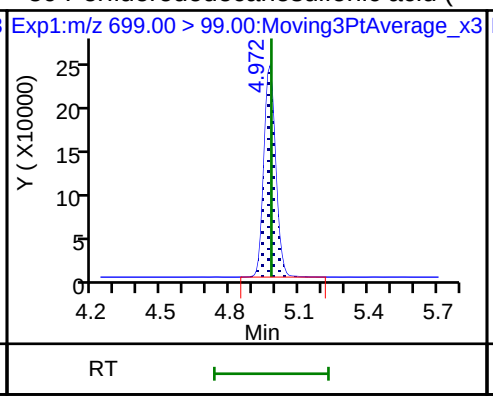
55 1H,1H,2H,2H-perfluorododecanesul



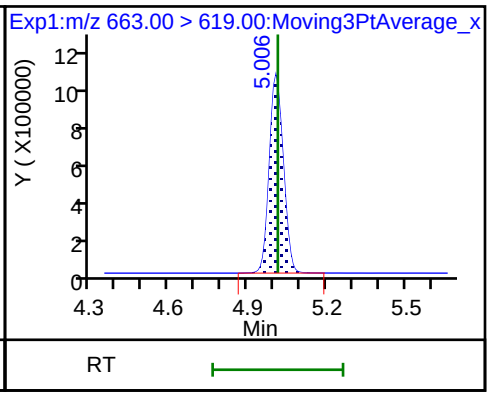
59 Perfluorododecanesulfonic acid (



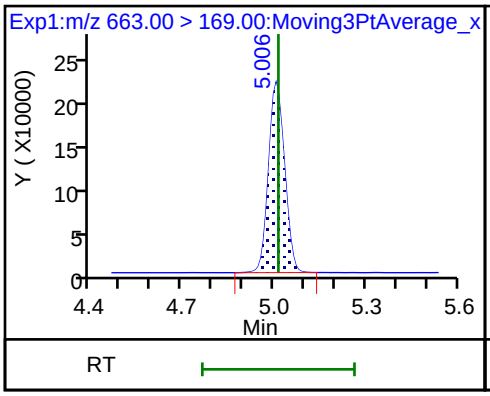
59 Perfluorododecanesulfonic acid (



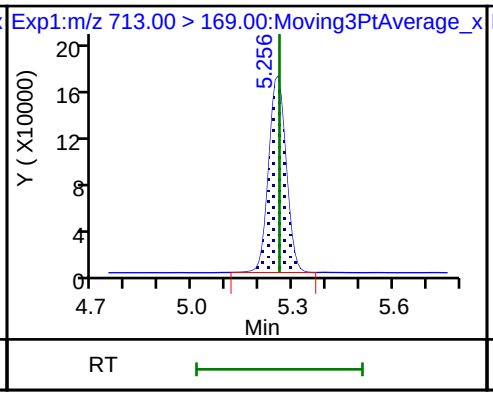
60 Perfluorotridecanoic acid



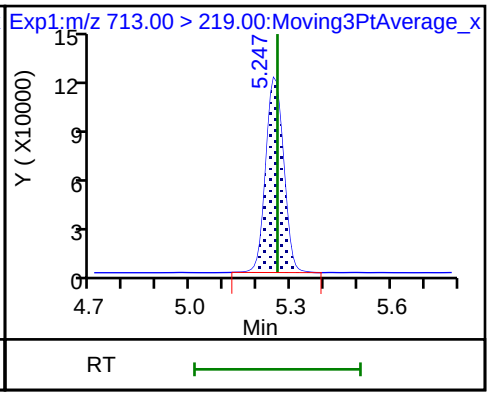
60 Perfluorotridecanoic acid



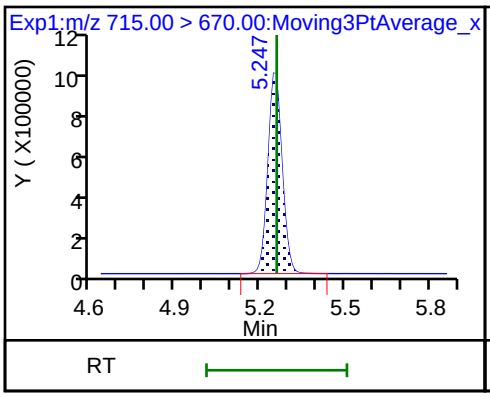
61 Perfluorotetradecanoic acid



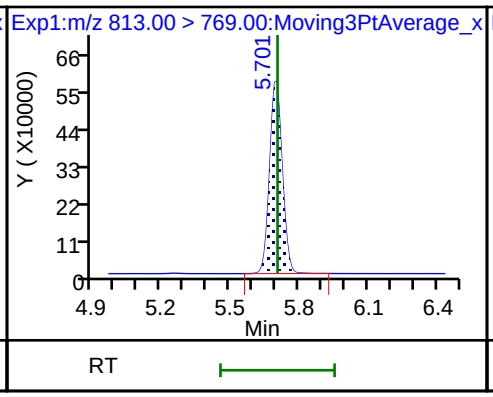
61 Perfluorotetradecanoic acid



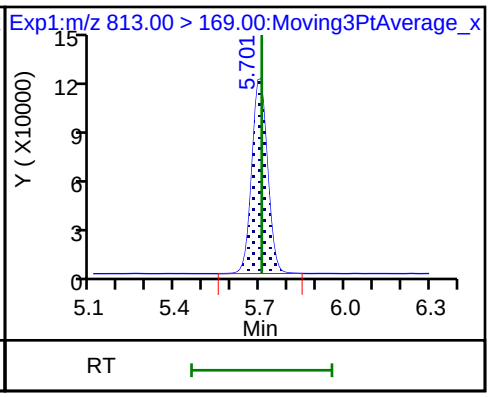
D 62 13C2 PFTeDA



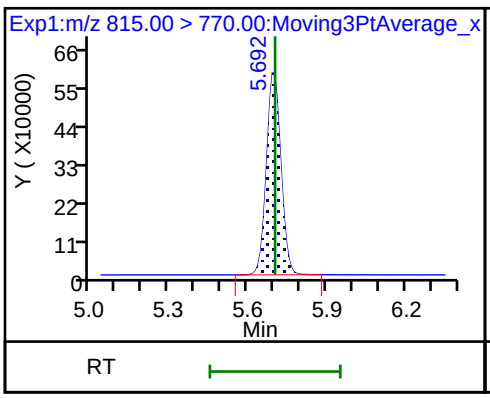
64 Perfluorohexadecanoic acid



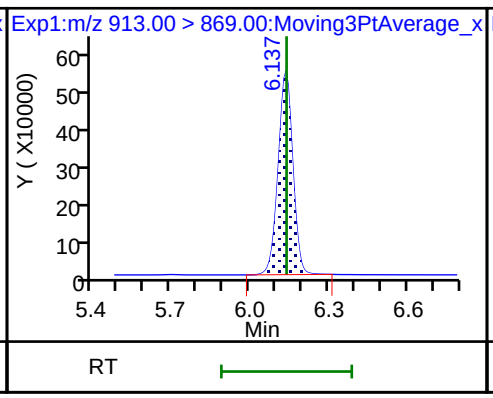
64 Perfluorohexadecanoic acid



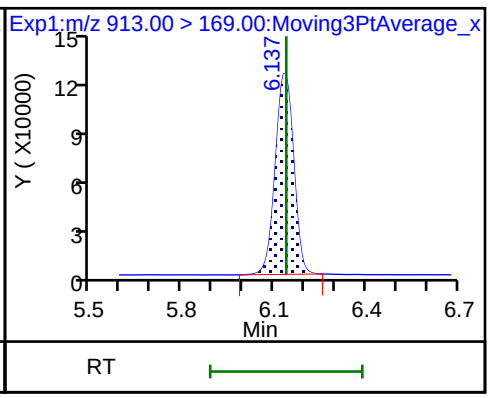
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

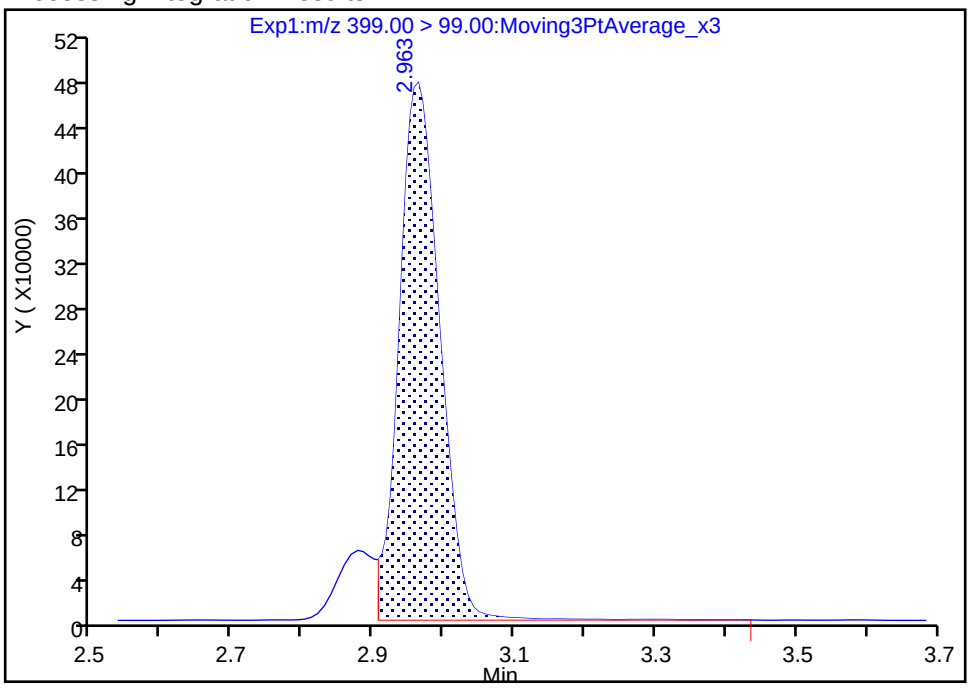
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_020.d
Injection Date: 10-Sep-2020 10:55:57 Instrument ID: A9
Lims ID: IC L5
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

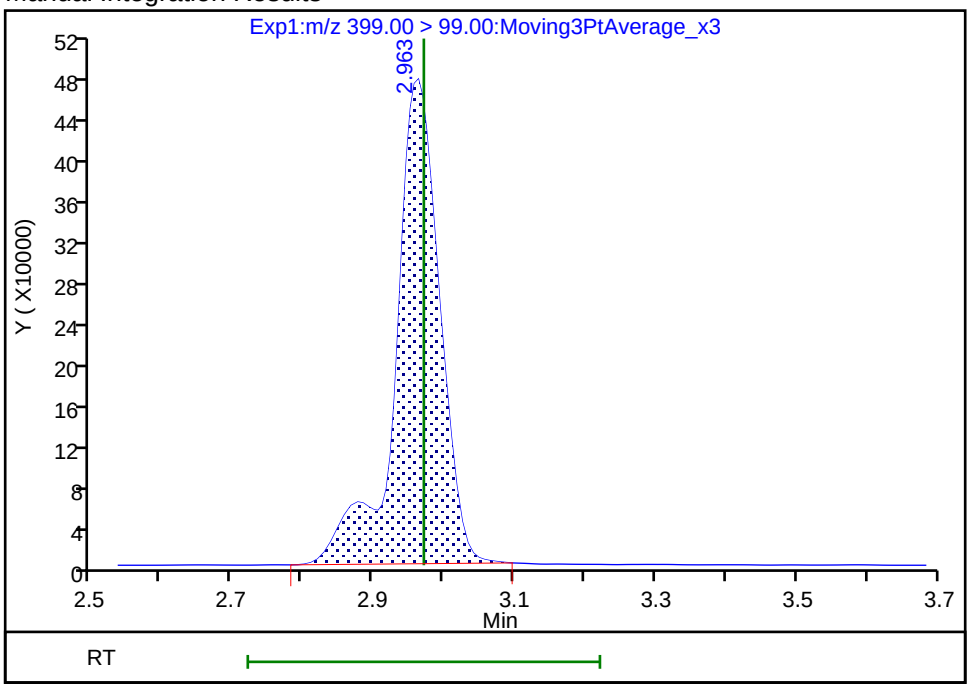
Processing Integration Results

RT: 2.96
Area: 1881556
Amount: 2.302941
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 2074536
Amount: 2.356016
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:25:55
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

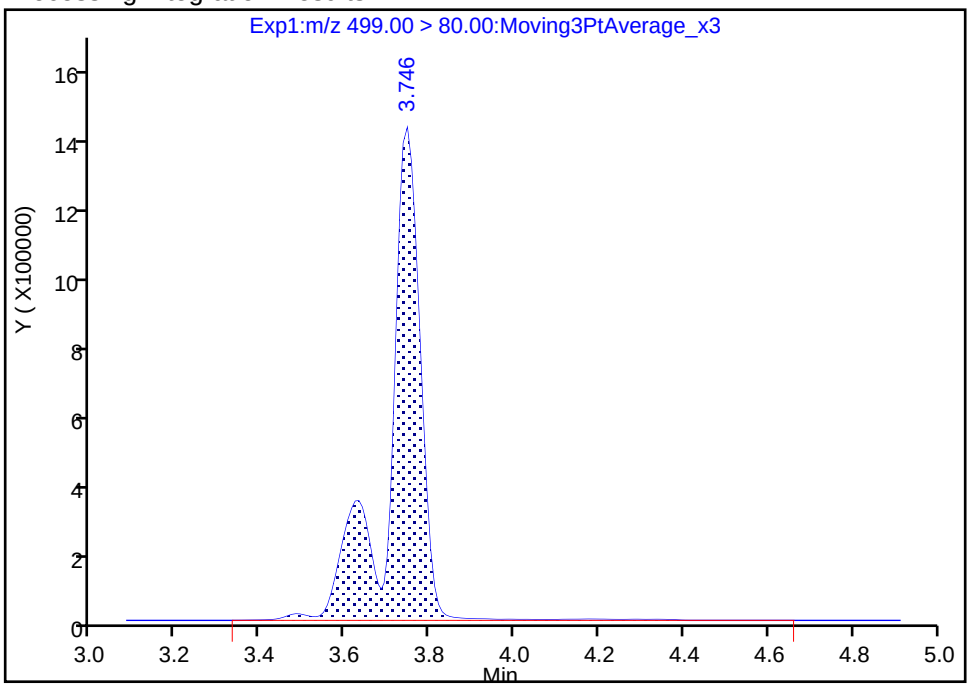
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_020.d
Injection Date: 10-Sep-2020 10:55:57 Instrument ID: A9
Lims ID: IC L5
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

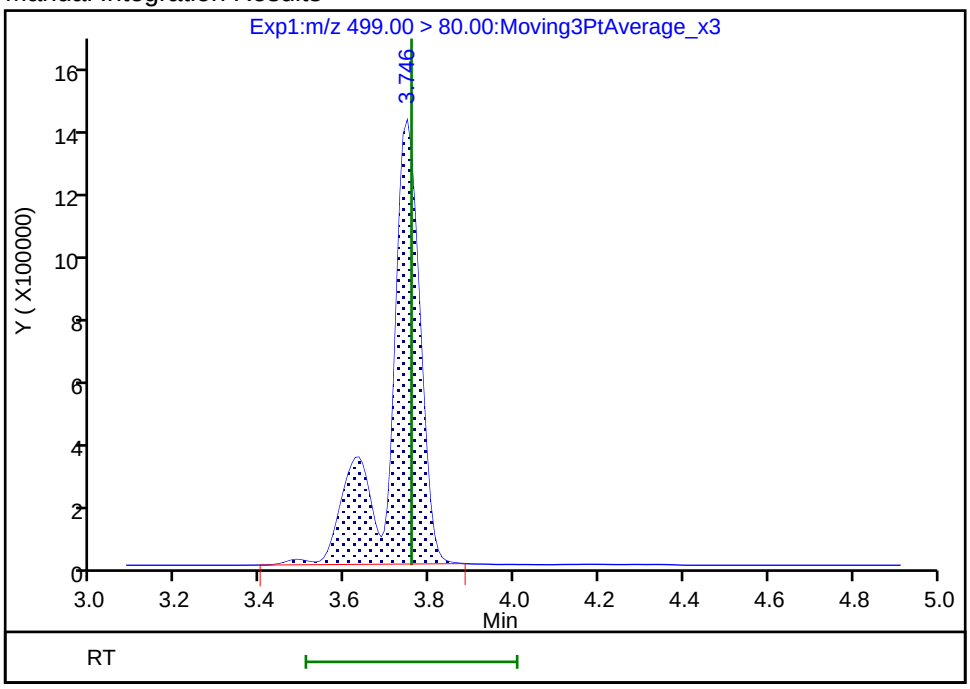
Processing Integration Results

RT: 3.75
Area: 7078236
Amount: 2.606951
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 6924966
Amount: 2.584063
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:26:49
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

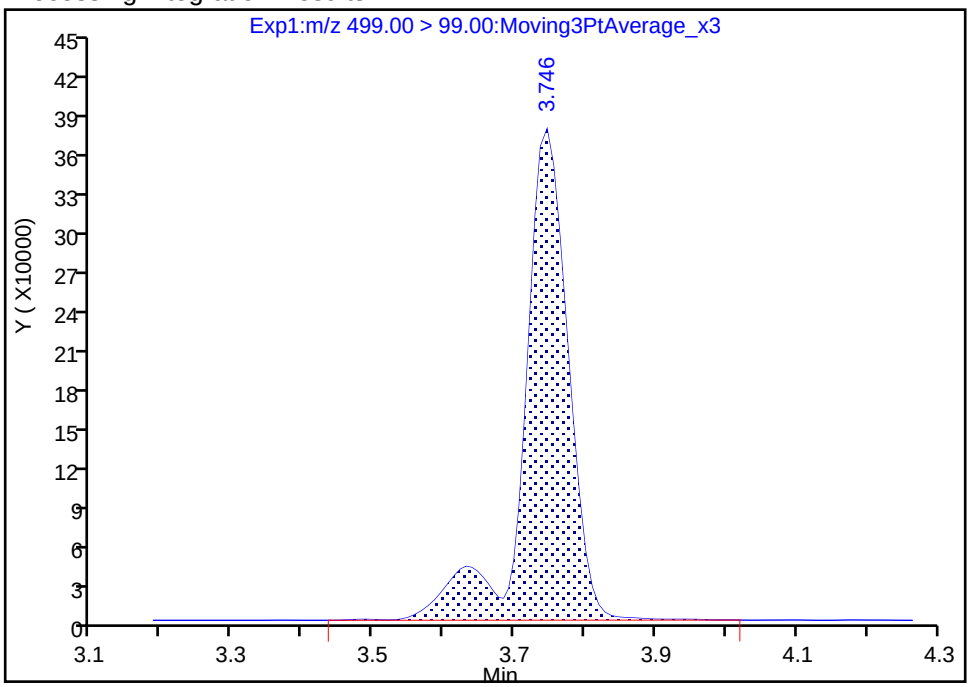
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_020.d
Injection Date: 10-Sep-2020 10:55:57 Instrument ID: A9
Lims ID: IC L5
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

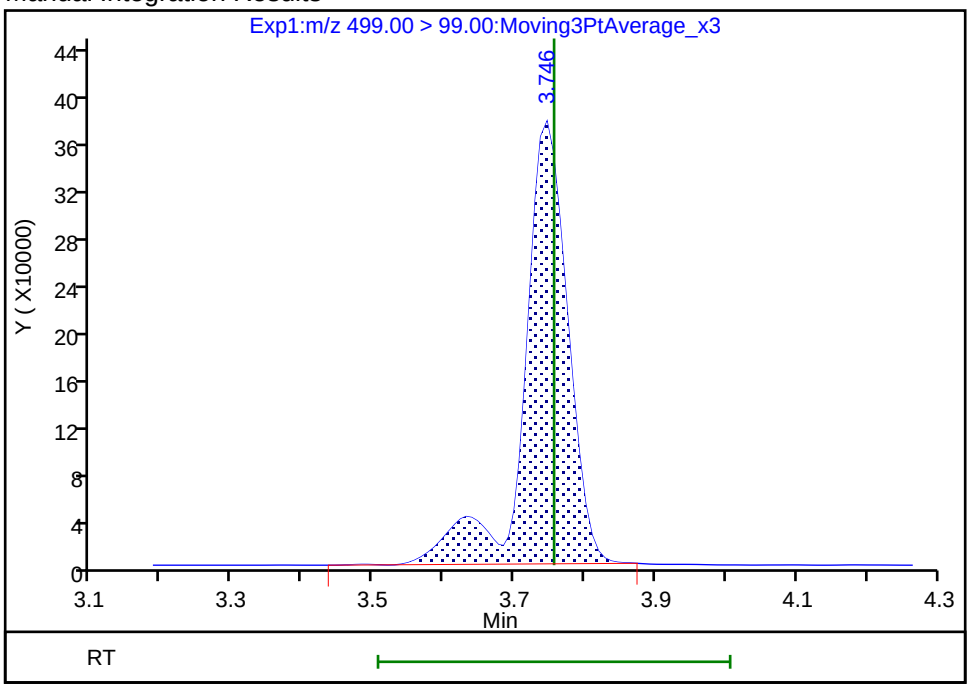
Processing Integration Results

RT: 3.75
Area: 1660071
Amount: 2.606951
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 1636862
Amount: 2.584063
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:27:06
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

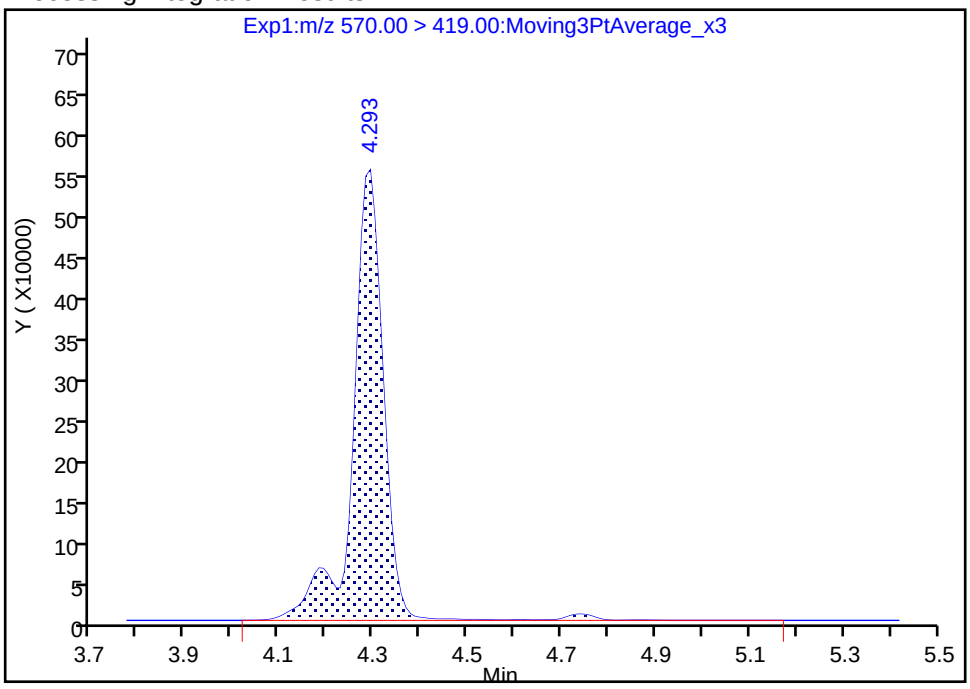
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_020.d				
Injection Date:	10-Sep-2020 10:55:57	Instrument ID:	A9		
Lims ID:	IC L5				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	14	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

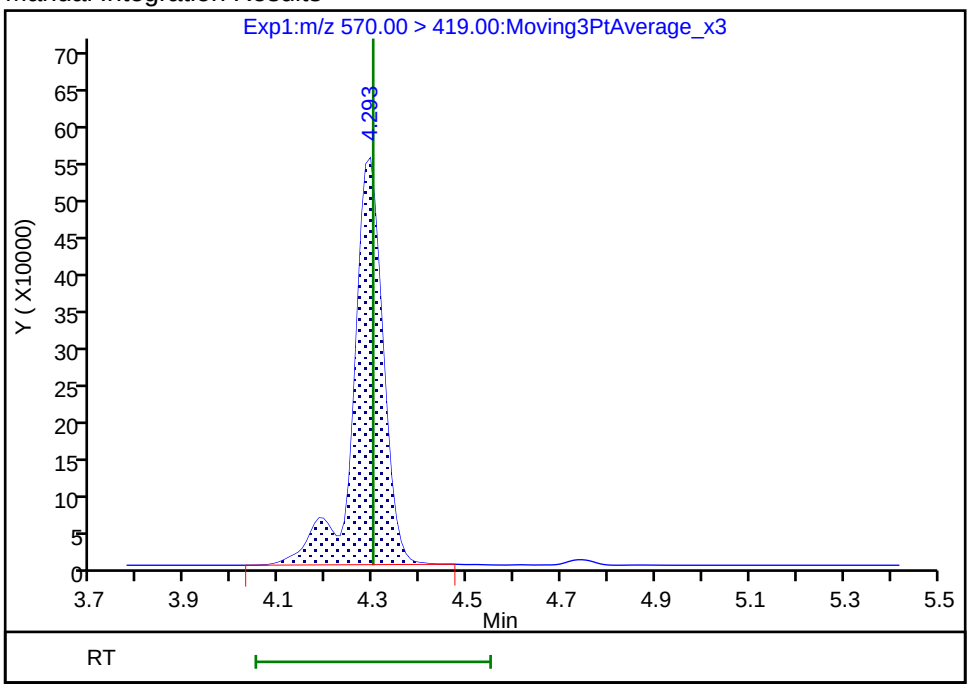
Processing Integration Results

RT: 4.29
Area: 2504917
Amount: 2.798522
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 2448364
Amount: 2.649101
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:27:46
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_021.d
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Sep-2020 11:05:17 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD6_25
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:14:58 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 11:34:45
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.916	1.901	0.015	0.562	8424890	2.49		99.8	3212	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.923	1.904	0.019	1.004	14698994	4.99		99.9	995	
D 4 13C5 PFPeA										
267.90 > 223.00	2.234	2.211	0.023	0.656	7238418	2.54		102	3719	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.234	2.211	0.023	1.000	13464235	4.57		91.4	1018	
D 6 13C3 PFBS										
301.90 > 80.00	2.264	2.241	0.023	0.664	13232169	2.35		101	2812	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.264	2.244	0.020	1.000	22773485	4.01	Target=3.10	90.7	1339	
298.90 > 99.00	2.264	2.244	0.020	1.000	7829054		2.91(1.55-4.65)	90.7	1552	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.558	2.533	0.025	0.751	1275389	2.28		97.8	815	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.558	2.535	0.023	1.000	5351034	4.95		106	9924	
D 10 13C2 PFHxA										
315.00 > 270.00	2.590	2.573	0.017	0.760	6897732	2.60		104	3719	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.590	2.573	0.017	1.000	10779295	4.68	Target=9.68	93.7	1470	
313.00 > 119.00	2.590	2.573	0.017	1.000	1077249		10.01(4.84-14.52)	93.7	626	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.611	2.587	0.024	1.154	10821051	4.73	Target=2.01	101	1560	
349.00 > 99.00	2.611	2.587	0.024	1.154	5622760		1.92(1.00-3.01)	101	2258	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.716	2.692	0.024	0.797	4675328	2.57		103	4308	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.716	2.691	0.025	1.000	3748656	5.06		101	4567	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.994	2.966	0.028	1.000	13697410	4.82	Target=3.74	96.4	2084	
363.00 > 169.00	2.994	2.966	0.028	1.000	3845699		3.56(1.87-5.61)	96.4	2813	
D 15 13C4 PFHpA										
367.00 > 322.00	2.994	2.965	0.029	0.879	6406416	2.49		99.4	4425	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.994	2.971	0.023	1.000	13521969	4.39	Target=3.29	96.5	1001	
399.00 > 99.00	2.994	2.971	0.023	1.000	4142358		3.26(1.65-4.94)	96.5	943	M
D 17 18O2 PFHxS										
403.00 > 84.00	2.994	2.969	0.025	0.879	6172326	2.29		97.0	3537	
19 DONA										
377.00 > 251.00	3.042	3.017	0.025	0.804	22633015	4.56	Target=1.80	96.8	7365	
377.00 > 85.00	3.042	3.017	0.025	0.804	13530118		1.67(0.90-2.70)	96.8	7883	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.379	3.352	0.027	0.992	1128229	2.34		98.6	1110	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.379	3.353	0.026	1.000	3349205	4.57		96.5	3221	
$ 21 13C8 PFOA										
421.00 > 376.00	3.398	3.362	0.036	0.997	4075755	2.01		82.3	3969	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.407	3.375	0.032	1.000	11308200	4.46	Target=2.37	89.2	1859	
413.00 > 169.00	3.407	3.375	0.032	1.000	4965143		2.28(1.19-3.56)	89.2	3529	
* 25 13C2 PFOA										
415.00 > 370.00	3.407	3.376	0.031		6254928	2.50			4536	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.398	3.369	0.029	0.898	12310163	4.86	Target=3.65	102	2065	
449.00 > 99.00	3.398	3.369	0.029	0.898	3438034		3.58(1.83-5.48)	102	2972	
D 26 13C4 PFOA										
417.00 > 372.00	3.407	3.376	0.031	1.000	5880244	2.43		97.4	5098	
$ 27 13C8 PFOS										
507.00 > 99.00	3.774	3.748	0.026	1.107	1555416	2.45		102	1671	
D 31 13C4 PFOS										
503.00 > 80.00	3.783	3.756	0.027	1.110	6545285	2.33		97.5	1686	
28 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.783	3.756	0.027	1.000	13532057	4.75	Target=4.12	102	980	
499.00 > 99.00	3.783	3.756	0.027	1.000	3267478		4.14(2.06-6.17)	102	2624	
D 29 13C5 PFNA										
468.00 > 423.00	3.792	3.767	0.025	1.113	4963721	2.37		94.7	4790	
30 Perfluorononanoic acid										
463.00 > 419.00	3.792	3.770	0.022	1.000	9851874	4.98	Target=4.21	99.7	5266	
463.00 > 169.00	3.792	3.770	0.022	1.000	2465631		4.00(2.11-6.32)	99.7	2878	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.978	3.956	0.022	1.052	8140600	4.74		102	4055	
D 36 13C8 FOSA										
506.00 > 78.00	4.113	4.086	0.027	1.207	3325401	2.52		101	2969	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.113	4.086	0.027	1.000	17563337	4.75		94.9	4774	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.131	4.106	0.025	1.092	9973320	4.80	Target=5.56	100.0	2587	
549.00 > 99.00	4.131	4.106	0.025	1.092	1804360		5.53(2.78-8.34)	100.0	2607	
D 33 13C2 PFDA										
515.00 > 470.00	4.148	4.130	0.018	1.217	6528469	2.45		98.2	5335	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.157	4.133	0.024	1.220	1323008	2.24		93.7	1094	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.157	4.132	0.025	1.002	12982222	4.98	Target=14.33	99.6	4767	
513.00 > 169.00	4.157	4.132	0.025	1.002	959108		13.54(7.16-21.49)	99.6	413	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.157	4.135	0.022	1.000	3422014	4.81		100	3929	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.320	4.295	0.025	1.268	3430778	2.59		104	2020	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.320	4.299	0.021	1.000	5660500	5.43		109	641	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.447	4.427	0.020	1.176	11169249	4.80	Target=4.29	99.6	3012	
599.00 > 99.00	4.447	4.427	0.020	1.176	2722852		4.10(2.15-6.44)	99.6	3970	
D 46 13C2 PFUnA										
565.00 > 520.00	4.473	4.455	0.018	1.313	5062947	2.47		98.7	5558	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.473	4.455	0.018	1.000	7315314	5.19	Target=6.74	104	6708	
563.00 > 169.00	4.473	4.455	0.018	1.000	1107225		6.61(3.37-10.11)	104	3122	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.481	4.460	0.021	1.315	2162876	2.44		97.6	1680	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.490	4.467	0.023	1.002	3931329	5.60		112	2624	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.568	4.546	0.022	1.340	5236014	12.3		98.5	5053	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.577	4.557	0.020	1.002	2200699	5.04		101	3134	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.586	4.565	0.021	1.346	1600165	2.69		108	250	
50 NMeFOSA										
512.00 > 169.00	4.586	4.569	0.017	1.000	3224319	4.83		96.6	2093	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.613	4.588	0.025	1.220	9859916	4.87		103	5738	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.735	4.718	0.017	1.390	5527700	12.4		99.0	6058	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.752	4.731	0.021	1.004	2254902	5.13		103	3706	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.759	4.741	0.018	1.397	1680611	2.72		109	874	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	4.767	4.747	0.020	1.399	4965995	2.47		98.6	10129	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.767	4.747	0.020	1.000	9088336	4.97	Target=6.67	99.5	5812	
613.00 > 169.00	4.759	4.747	0.012	0.998	1294982		7.02(3.34-10.01)	99.5	4290	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.767	4.749	0.018	1.002	3243753	4.85		97.0	1065	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.782	4.766	0.016	1.150	2251394	4.96		103	4587	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.989	4.978	0.011	1.319	1806840	5.20	Target=1.02	107	2374	
699.00 > 99.00	4.989	4.978	0.011	1.319	1827083		0.99(0.51-1.53)	107	6236	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.024	5.013	0.011	1.054	7125186	4.94	Target=4.80	98.7	7903	
663.00 > 169.00	5.024	5.013	0.011	1.054	1524781		4.67(2.40-7.20)	98.7	3764	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.264	5.258	0.006	1.545	3507700	2.50		99.9	5632	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.264	5.259	0.005	1.000	1186334	4.79	Target=1.37	95.9	3683	
713.00 > 219.00	5.264	5.259	0.005	1.000	867997		1.37(0.69-2.06)	95.9	3938	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.701	5.703	-0.002	1.673	2699505	2.60		104	5922	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.710	5.705	0.005	1.002	4937240	4.98	Target=4.63	99.5	5494	
813.00 > 169.00	5.701	5.705	-0.004	1.000	1075429		4.59(2.32-6.95)	99.5	3775	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.137	6.139	-0.002	1.076	3945625	4.89	Target=4.01	97.7	2169	
913.00 > 169.00	6.137	6.139	-0.002	1.076	978432		4.03(2.01-6.02)	97.7	1692	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL6_00025 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:15:02 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_021.d

Injection Date: 10-Sep-2020 11:05:17 Instrument ID: A9

Lims ID: IC L6

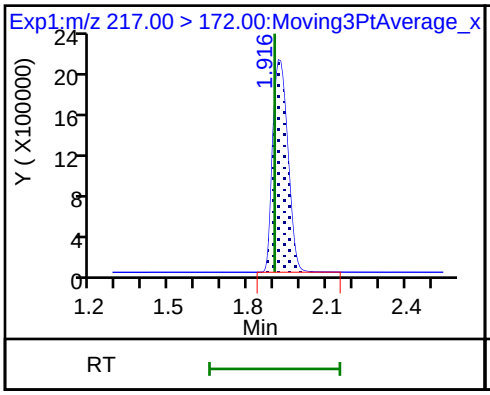
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 15 Worklist Smp#: 7

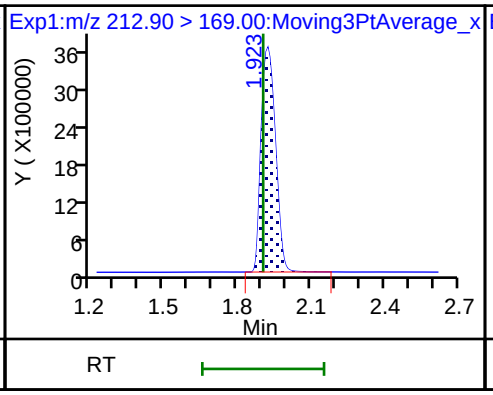
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

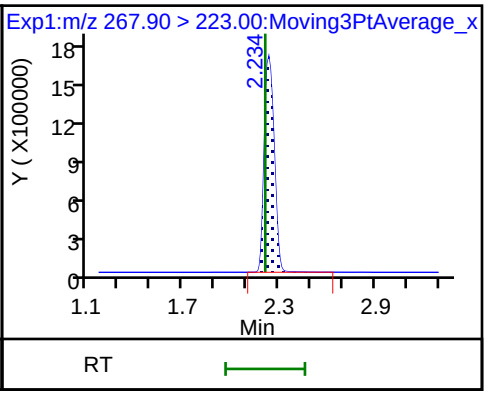
D 1 13C4 PFBA



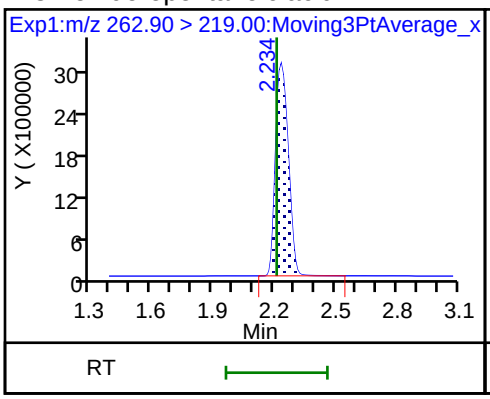
2 Perfluorobutanoic acid



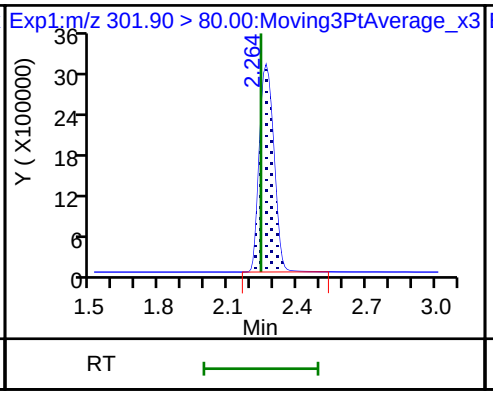
D 4 13C5 PFPeA



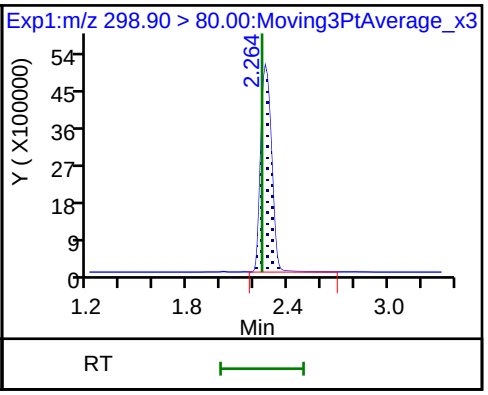
3 Perfluoropentanoic acid



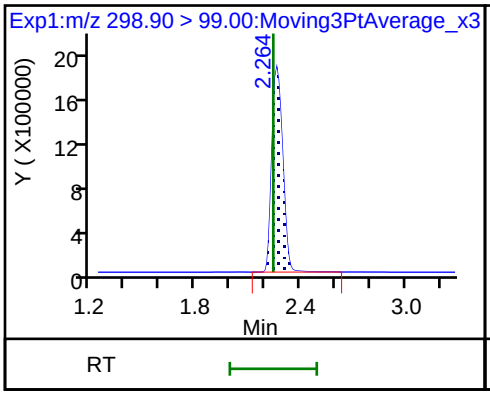
D 6 13C3 PFBS



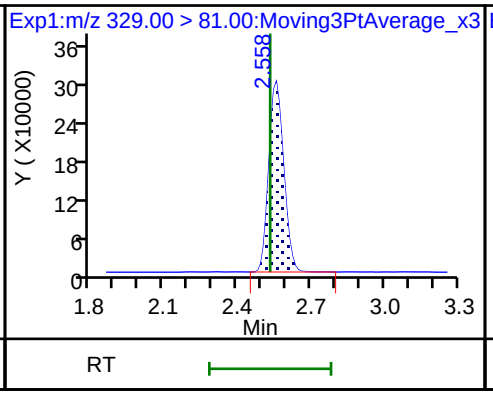
5 Perfluorobutanesulfonic acid



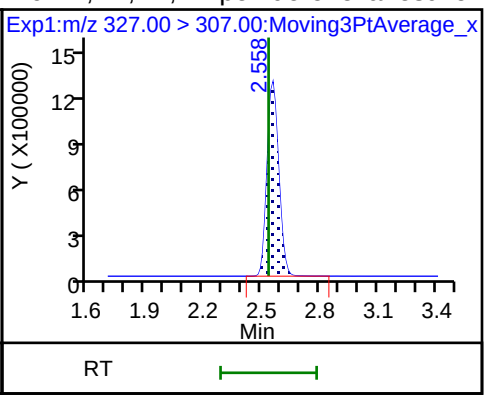
5 Perfluorobutanesulfonic acid



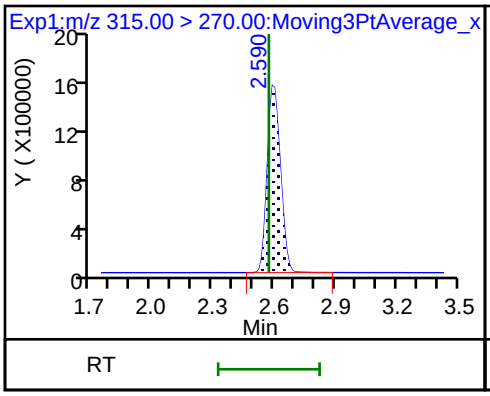
D 8 M2-4:2 FTS



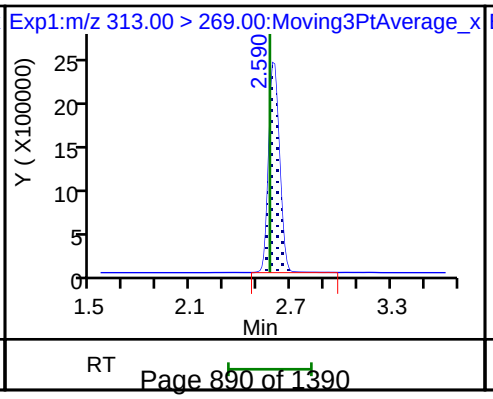
9 1H,1H,2H,2H-perfluorohexanesulfo



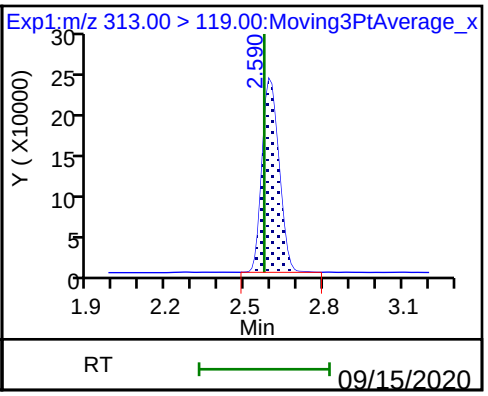
D 10 13C2 PFHxA



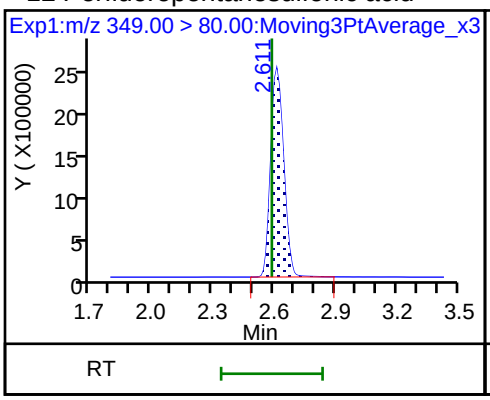
11 Perfluorohexanoic acid



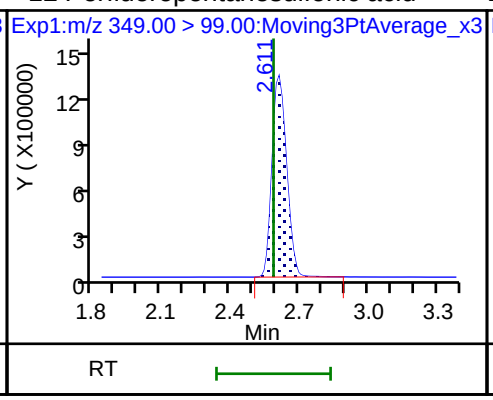
11 Perfluorohexanoic acid



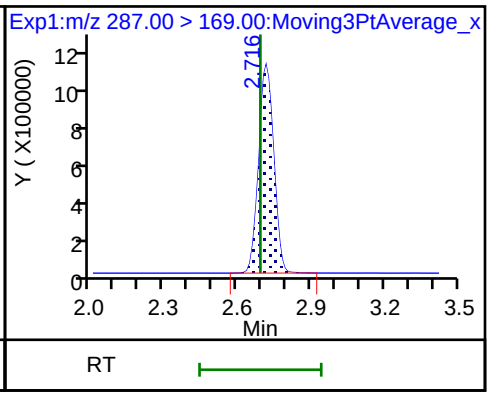
12 Perfluoropentanesulfonic acid



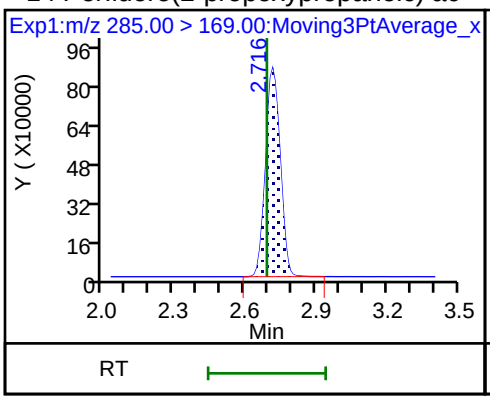
12 Perfluoropentanesulfonic acid



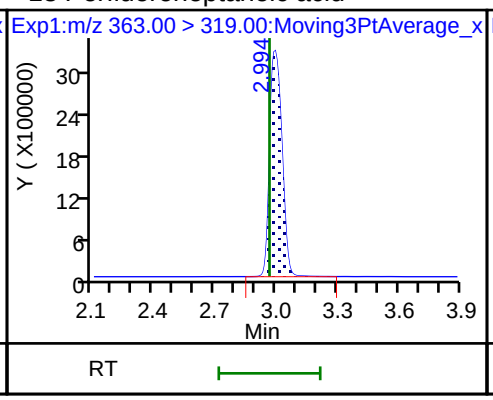
D 13 13C3 HFPO-DA



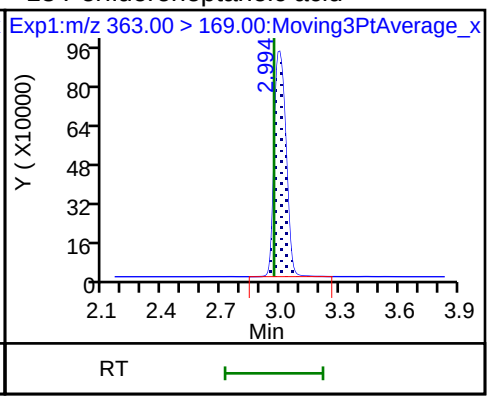
14 Perfluoro(2-propoxypropanoic) ac



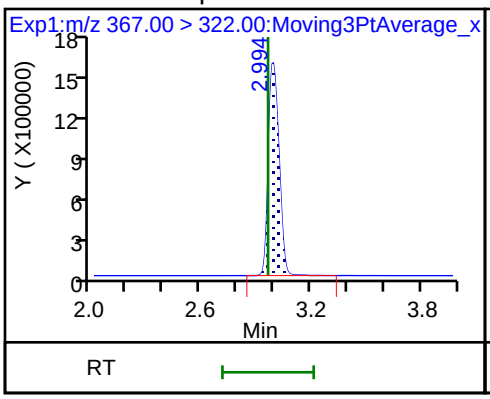
18 Perfluoroheptanoic acid



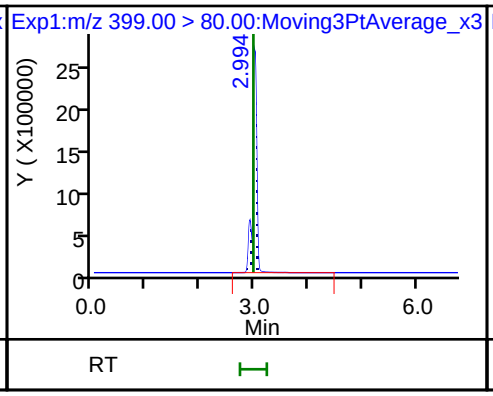
18 Perfluoroheptanoic acid



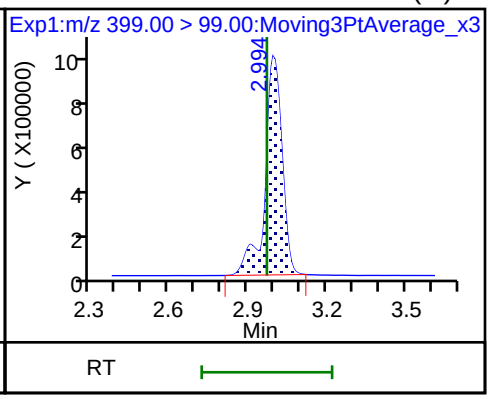
D 15 13C4 PFHpA



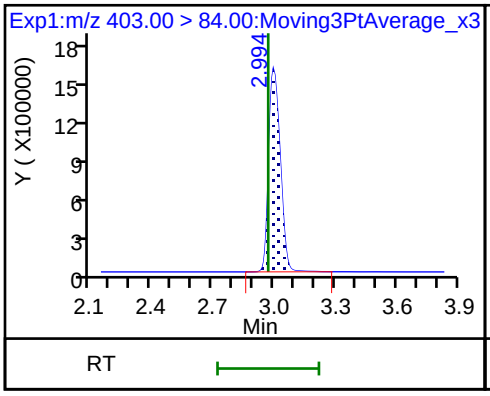
16 Perfluorohexanesulfonic acid



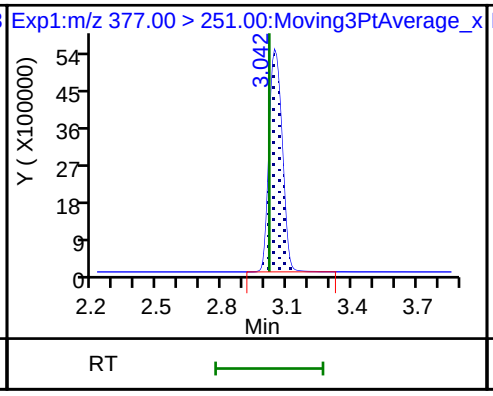
16 Perfluorohexanesulfonic acid (M)



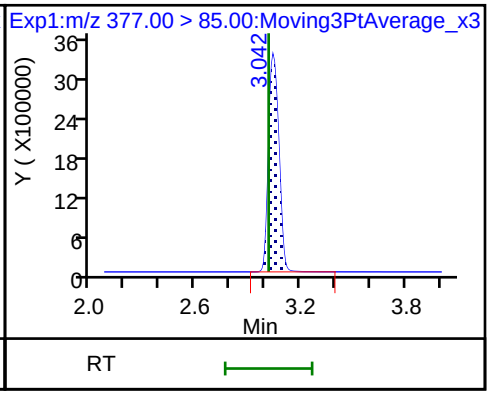
D 17 18O2 PFHxS



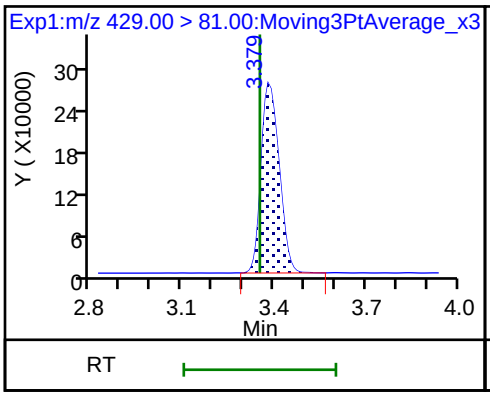
19 DONA



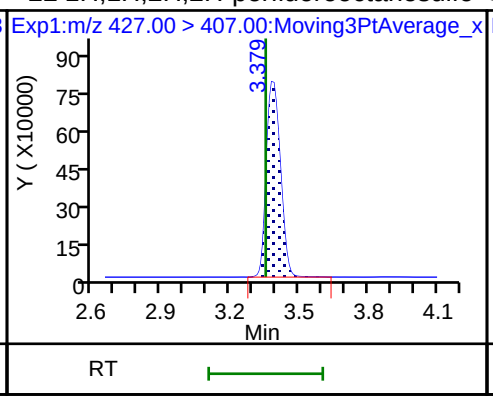
19 DONA



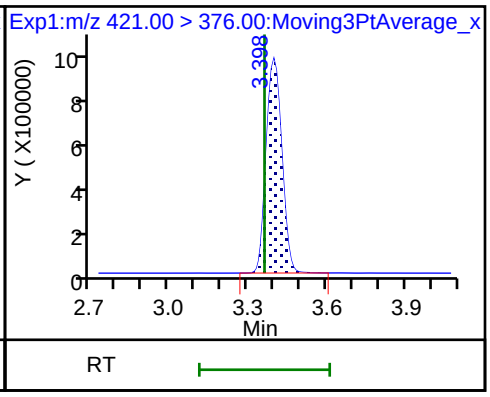
D 20 M2-6:2 FTS



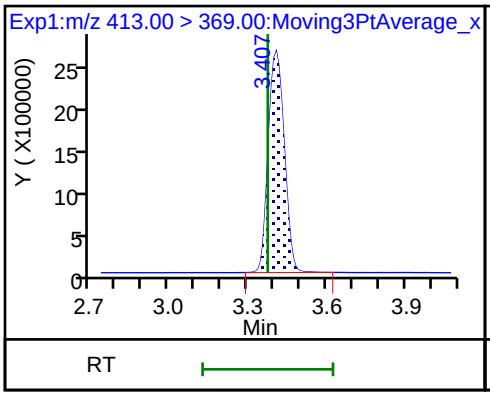
22 1H,1H,2H,2H-perfluorooctanesulfo



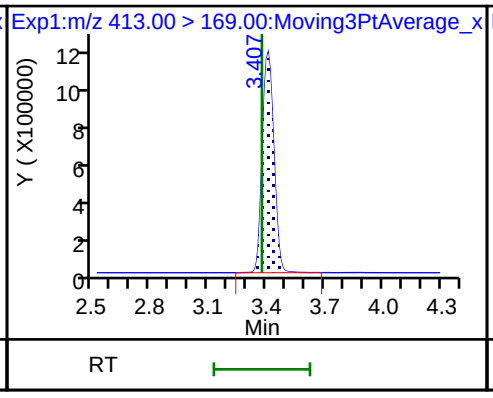
$ 21 13C8 PFOA



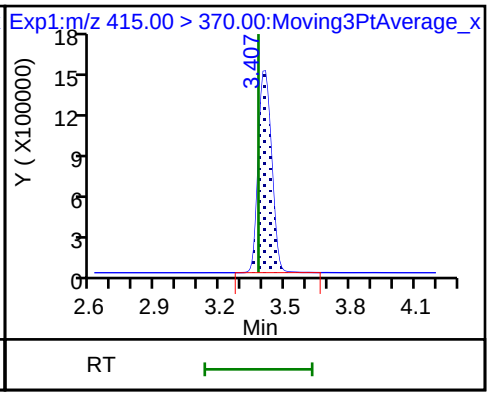
24 Perfluorooctanoic acid



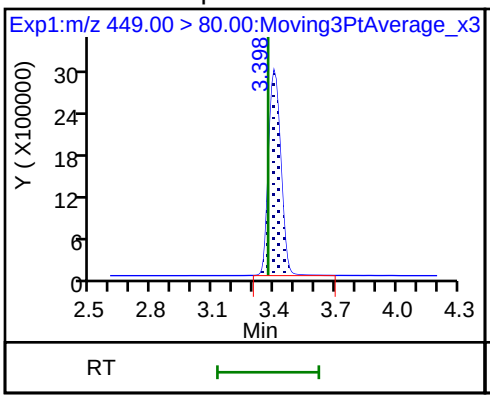
24 Perfluorooctanoic acid



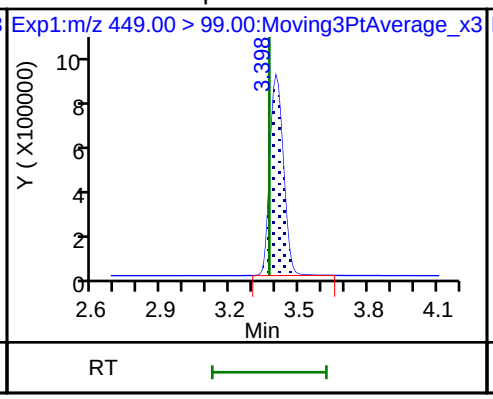
* 25 13C2 PFOA



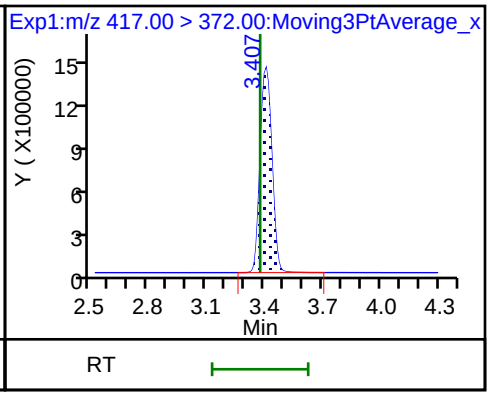
23 Perfluoroheptanesulfonic acid



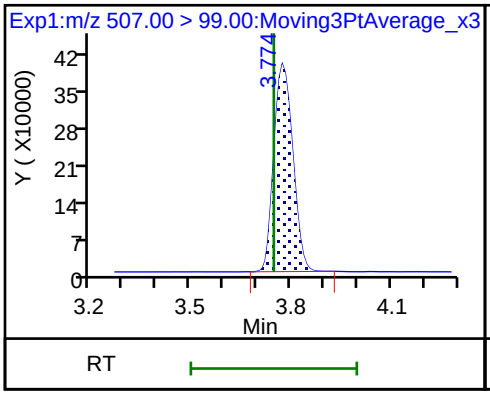
23 Perfluoroheptanesulfonic acid



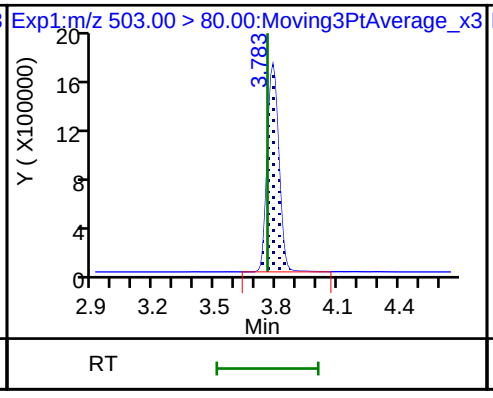
D 26 13C4 PFOA



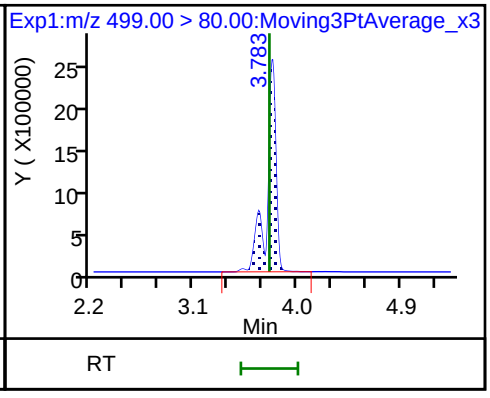
$ 27 13C8 PFOS



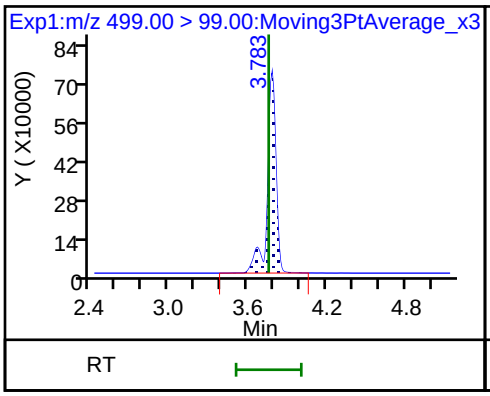
D 31 13C4 PFOS



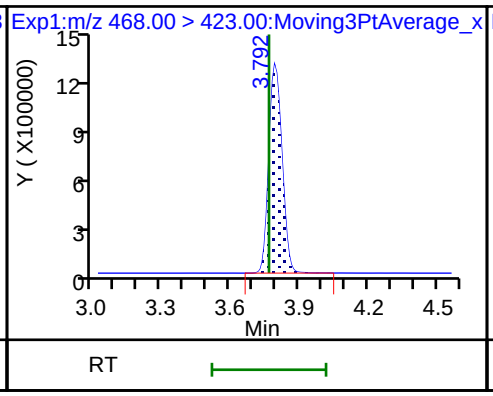
28 Perfluorooctanesulfonic acid



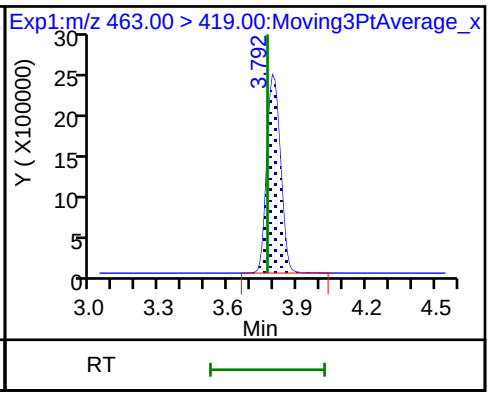
28 Perfluorooctanesulfonic acid



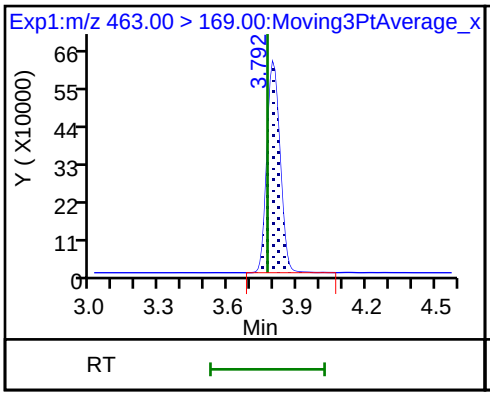
D 29 13C5 PFNA



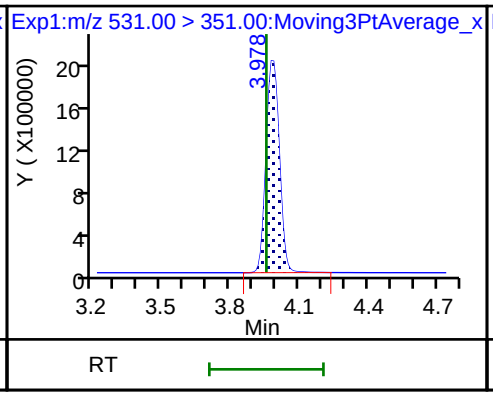
30 Perfluorononanoic acid



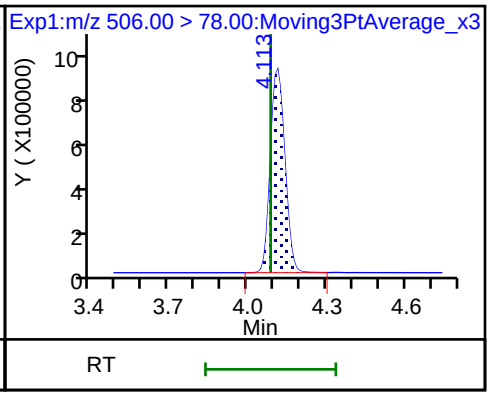
30 Perfluorononanoic acid



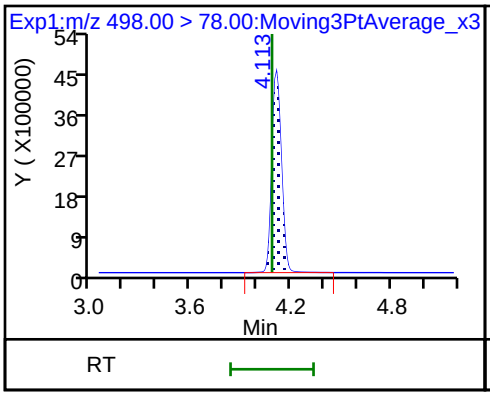
32 9-Chlorohexadecafluoro-3-oxanona



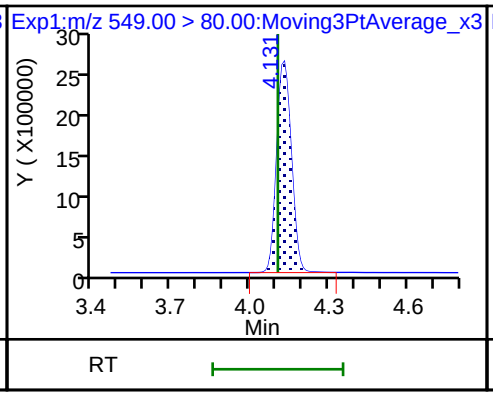
D 36 13C8 FOSA



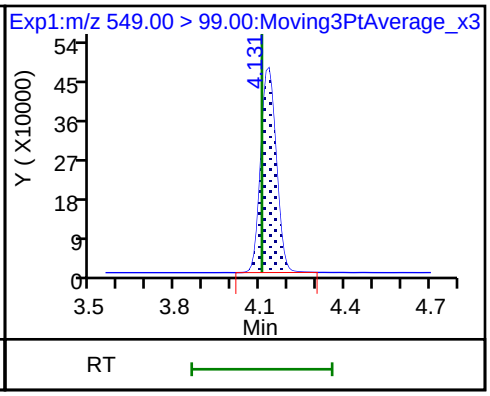
34 Perfluorooctanesulfonamide



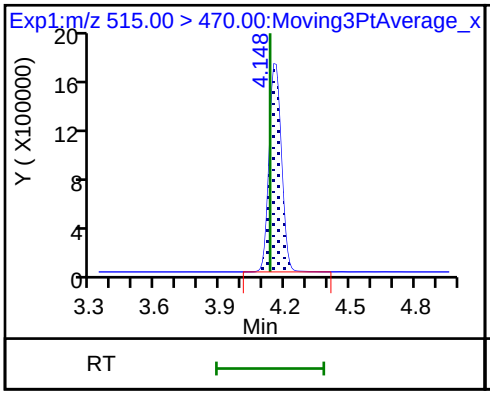
35 Perfluorononanesulfonic acid



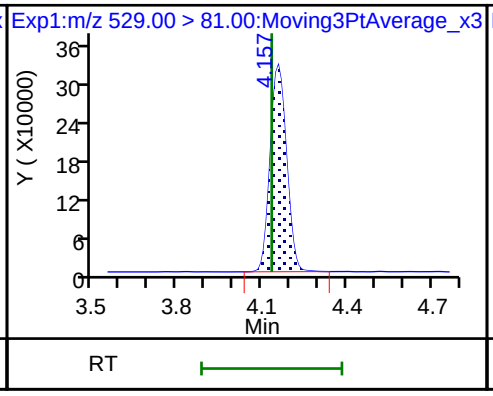
35 Perfluorononanesulfonic acid



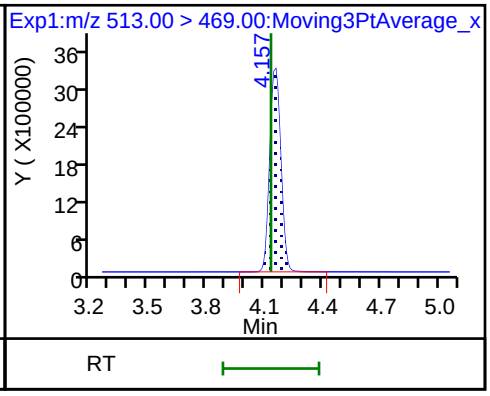
D 33 13C2 PFDA



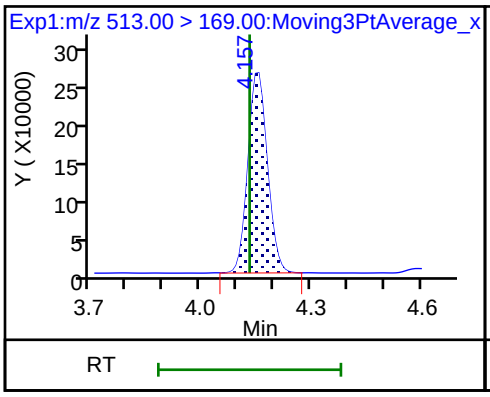
D 37 M2-8:2 FTS



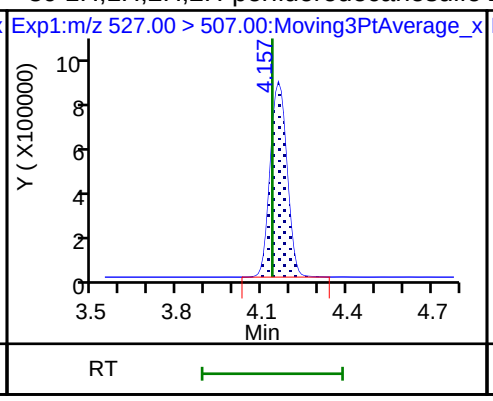
38 Perfluorodecanoic acid



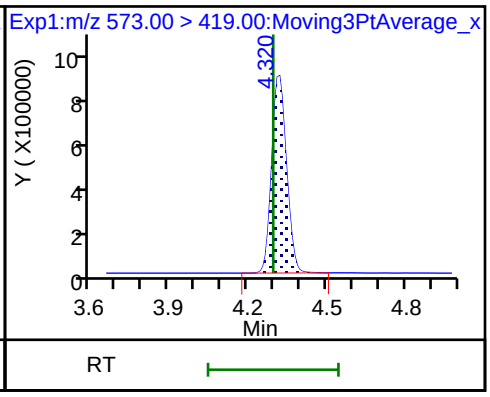
38 Perfluorodecanoic acid



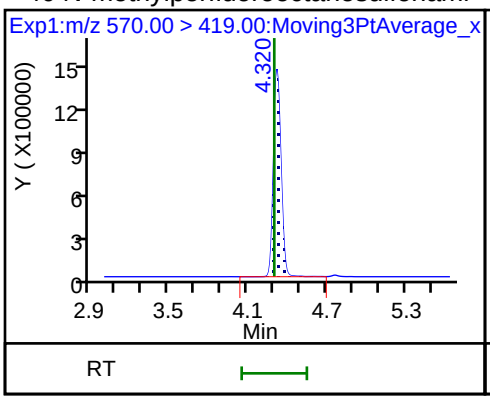
39 1H,1H,2H,2H-perfluorodecanesulfo



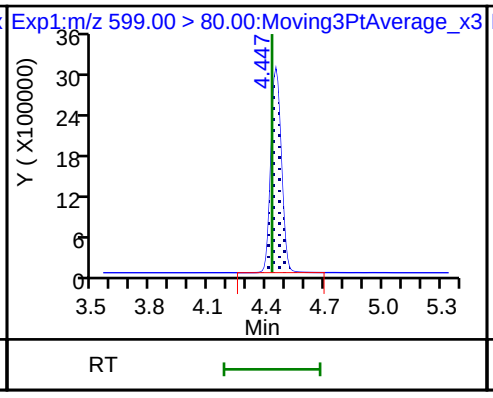
D 41 d3-NMeFOSAA



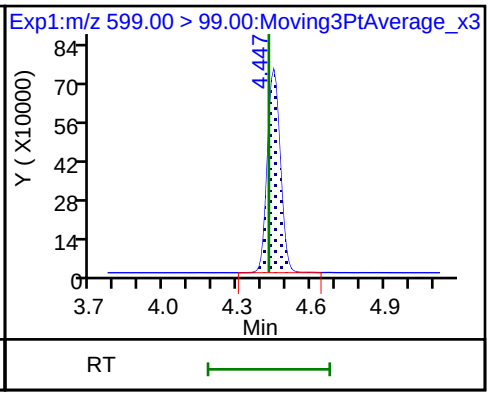
40 N-methylperfluorooctanesulfonami



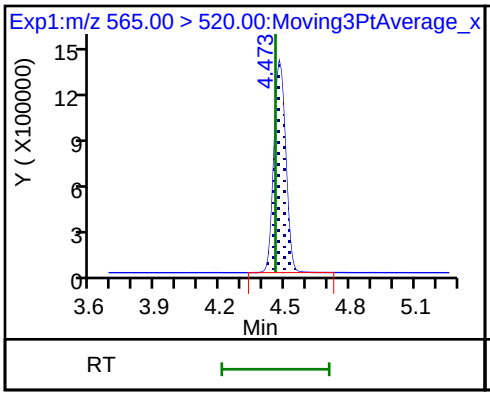
42 Perfluorodecanesulfonic acid



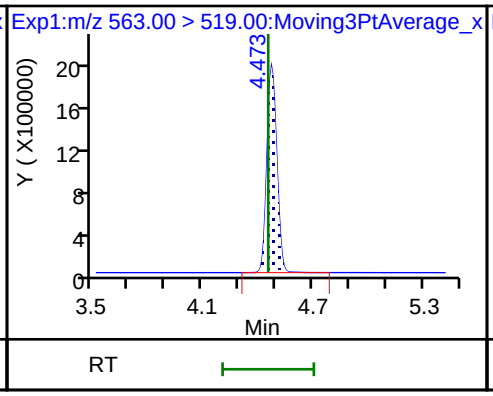
42 Perfluorodecanesulfonic acid



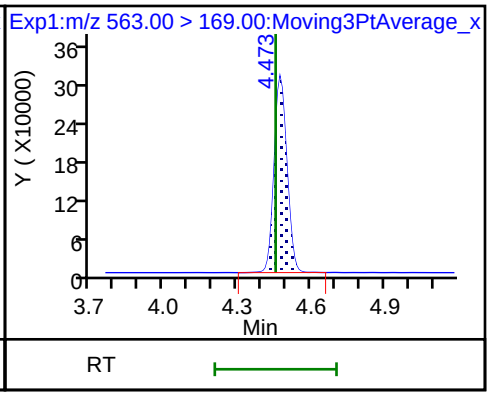
D 46 13C2 PFUnA



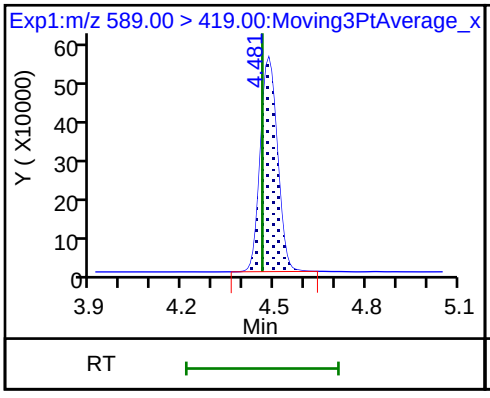
43 Perfluoroundecanoic acid



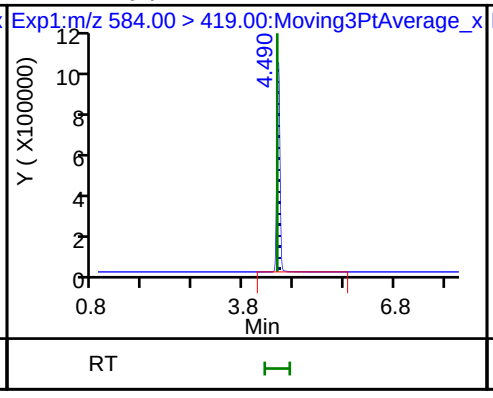
43 Perfluoroundecanoic acid



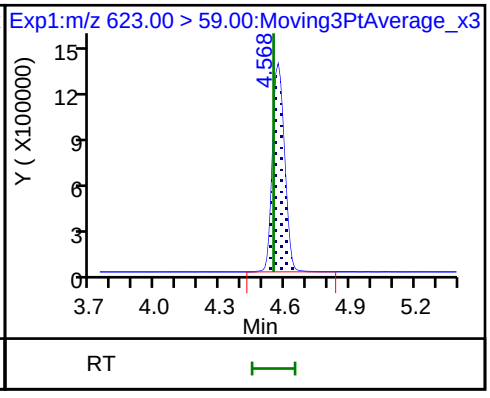
D 45 d5-NEtFOSAA



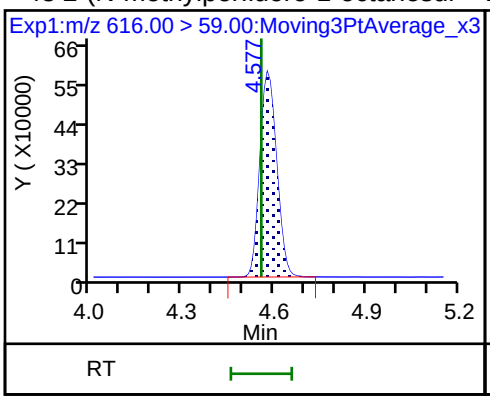
44 N-ethylperfluorooctanesulfonamid



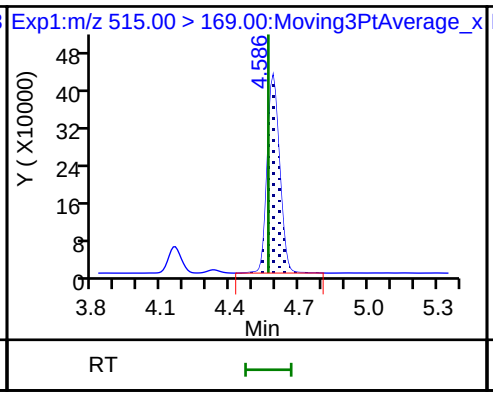
D 47 d7-N-MeFOSE-M



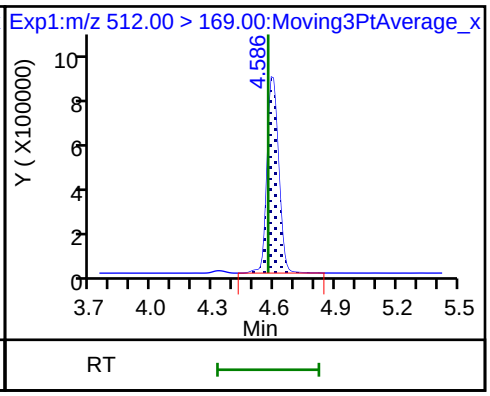
48 2-(N-methylperfluoro-1-octanesul



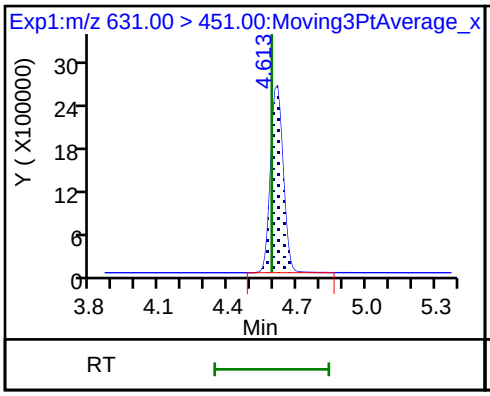
D 49 d-N-MeFOSA-M



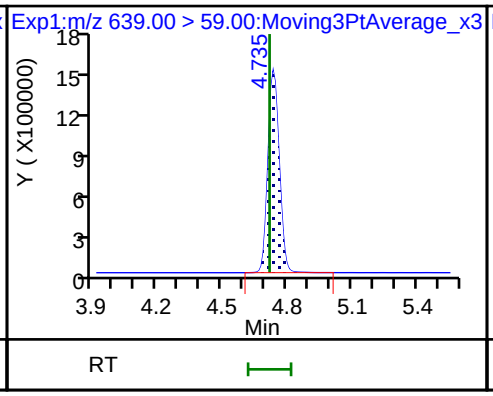
50 NMeFOSA



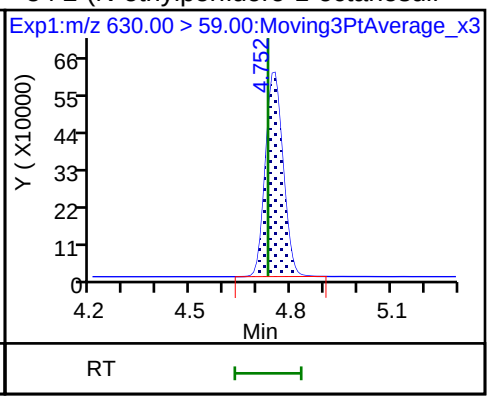
51 11-Chloroeicosafluoro-3-oxaundec



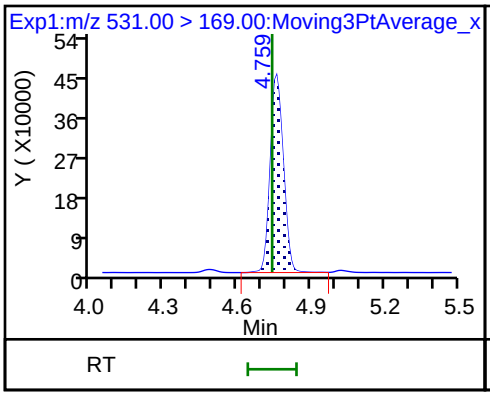
D 53 d9-N-EtFOSE-M



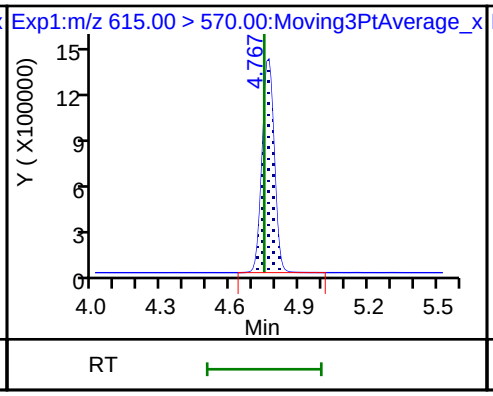
54 2-(N-ethylperfluoro-1-octanesulf



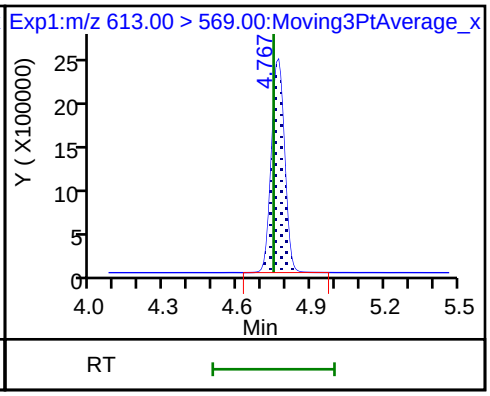
D 58 d-N-EtFOSA-M



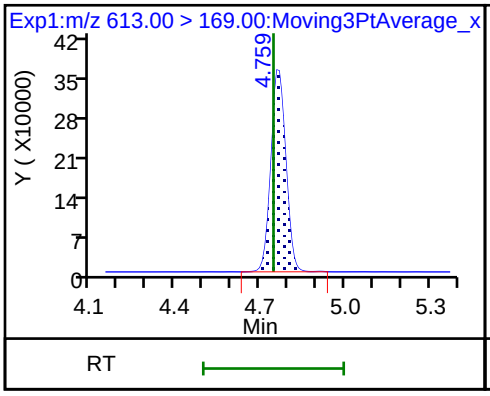
D 56 13C2 PFDoA



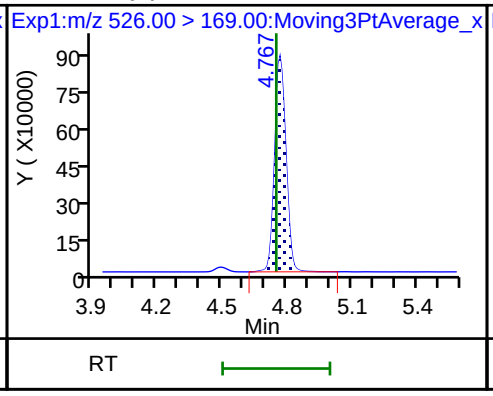
52 Perfluorododecanoic acid



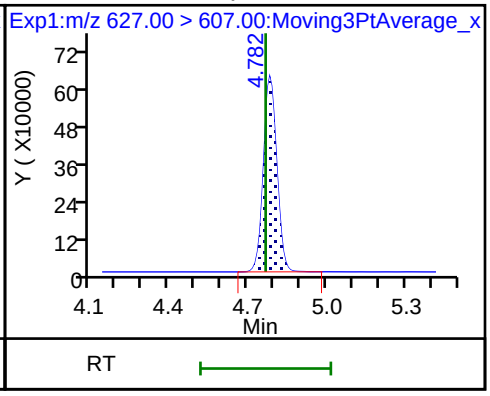
52 Perfluorododecanoic acid



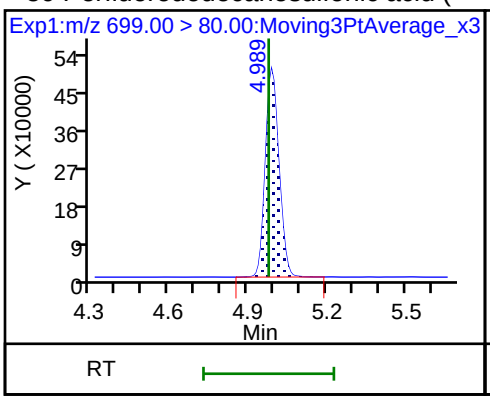
57 N-ethylperfluoro-1-octanesulfona



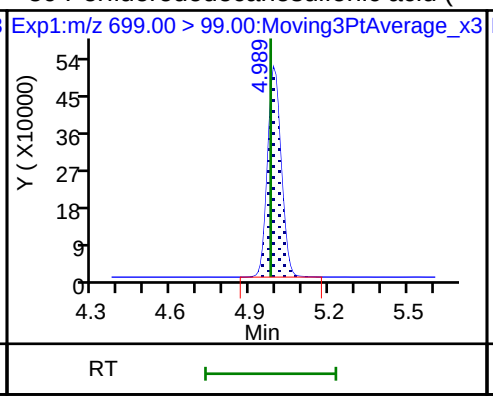
55 1H,1H,2H,2H-perfluorododecanesul



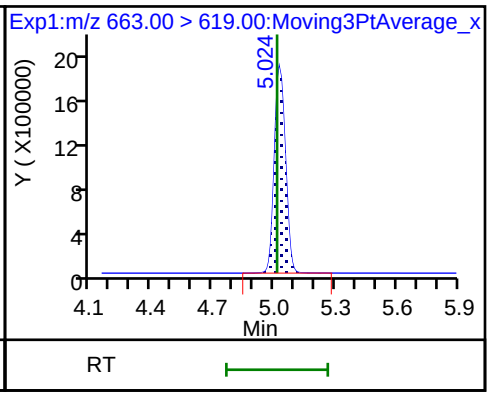
59 Perfluorododecanesulfonic acid (



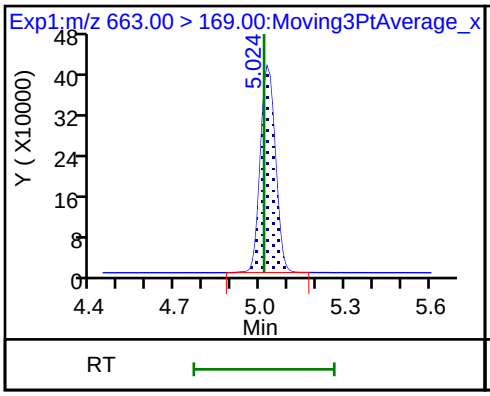
59 Perfluorododecanesulfonic acid (



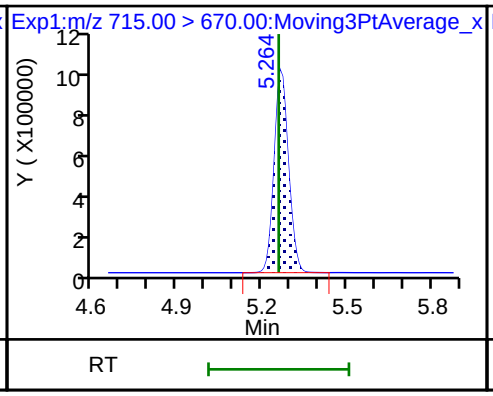
60 Perfluorotridecanoic acid



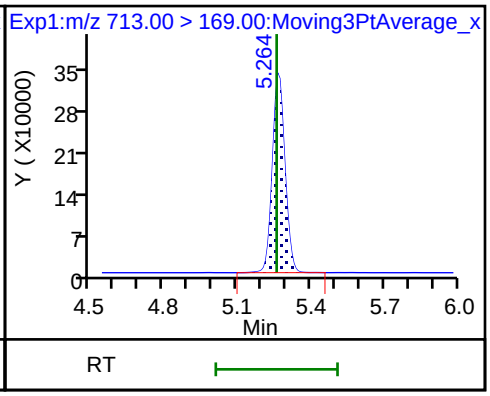
60 Perfluorotridecanoic acid



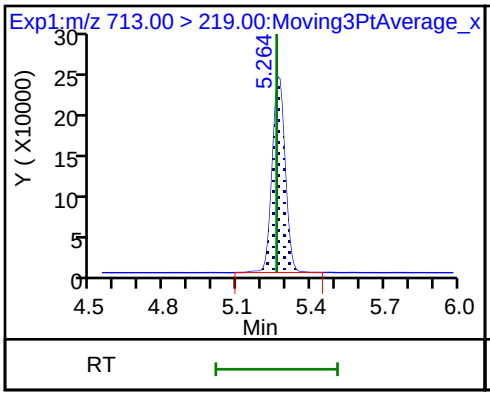
D 62 13C2 PFTeDA



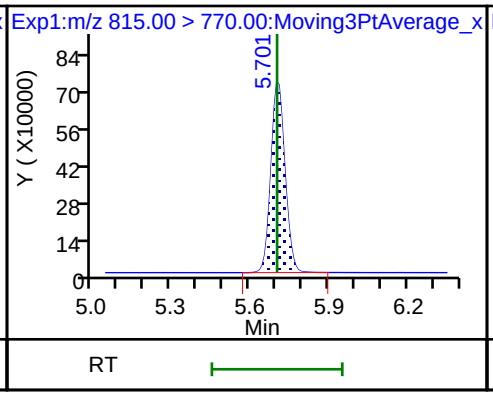
61 Perfluorotetradecanoic acid



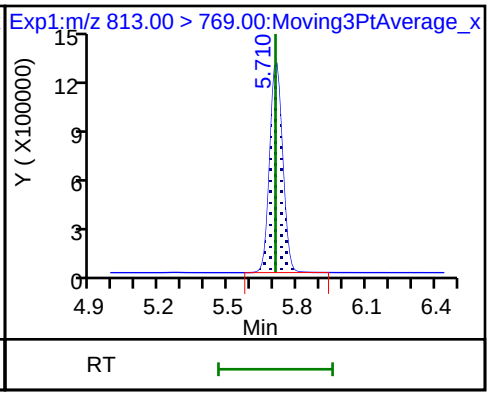
61 Perfluorotetradecanoic acid



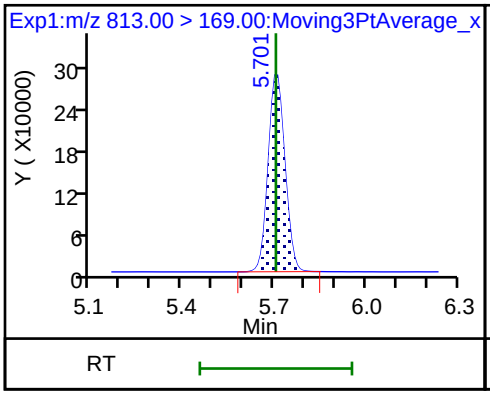
D 63 13C2 PFHxDA



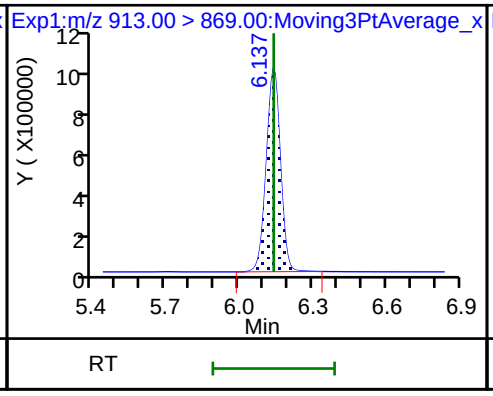
64 Perfluorohexadecanoic acid



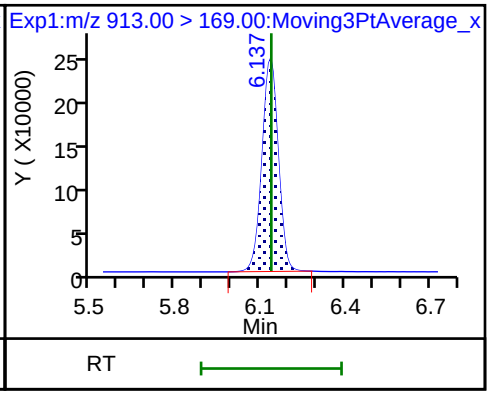
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

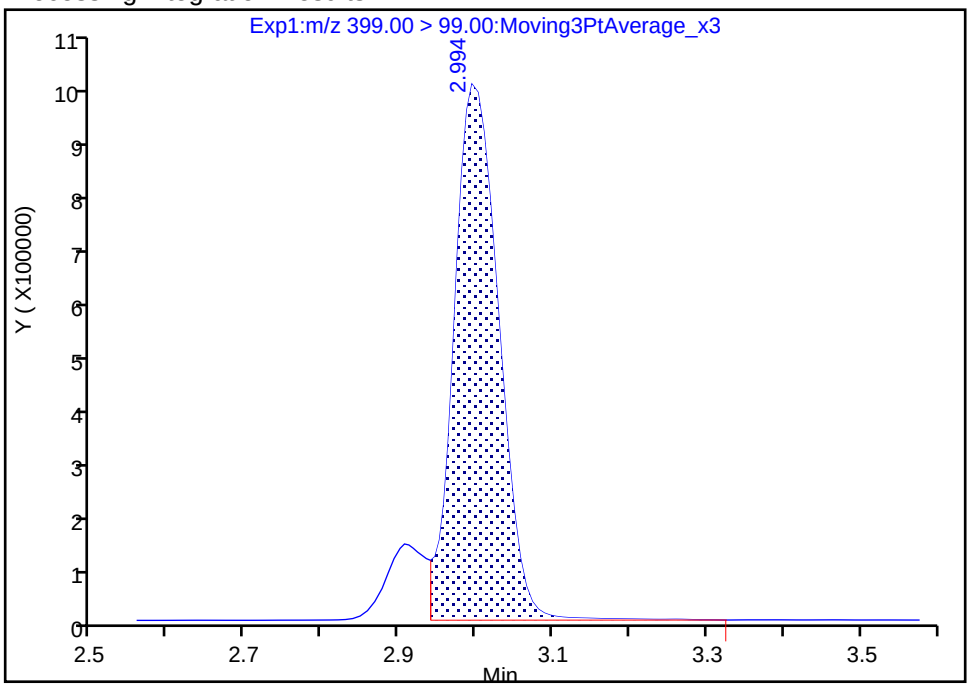
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_A_021.d				
Injection Date:	10-Sep-2020 11:05:17	Instrument ID:	A9		
Lims ID:	IC L6				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	15	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

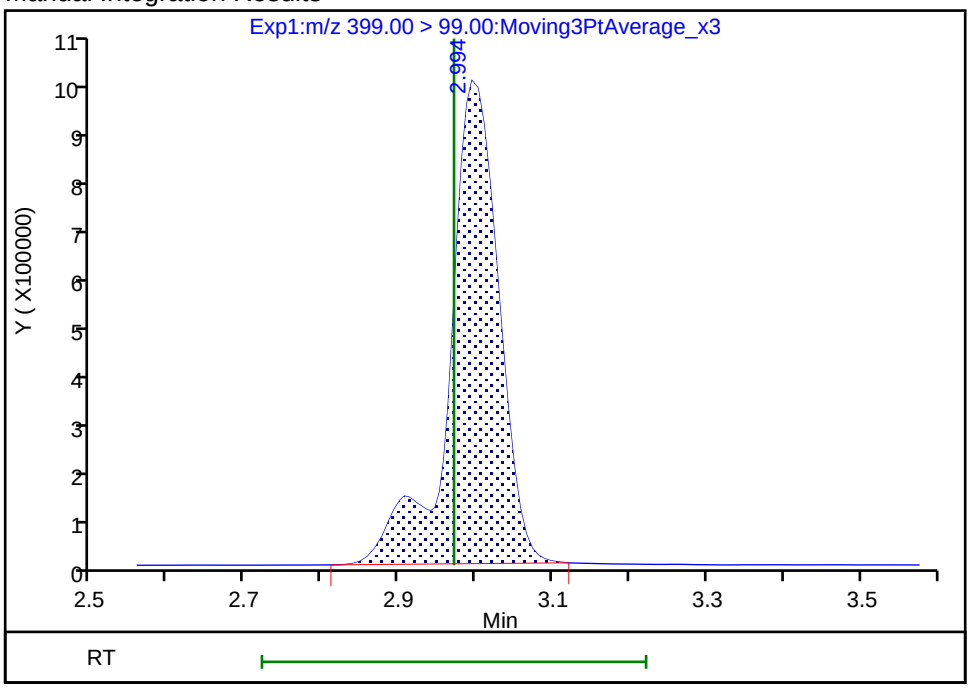
Processing Integration Results

RT: 2.99
Area: 3739336
Amount: 4.406403
Amount Units: ng/ml



Manual Integration Results

RT: 2.99
Area: 4142358
Amount: 4.392474
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 11:32:24
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Sep-2020 12:29:20 ALS Bottle#: 16 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CAL STD7_24
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:15:08 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 12:59:43
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.893	1.901	-0.008	0.565	8336188	2.69		108	3116	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.893	1.904	-0.011	1.000	26016733	8.93		89.3	1726	
D 4 13C5 PFPeA										
267.90 > 223.00	2.198	2.211	-0.013	0.656	6887818	2.64		106	2787	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.198	2.211	-0.013	1.000	23231288	8.29		82.9	1836	
D 6 13C3 PFBS										
301.90 > 80.00	2.233	2.241	-0.008	0.666	12408129	2.41		104	2732	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.233	2.244	-0.011	1.000	39815345	7.48	Target=3.10	84.6	2328	
298.90 > 99.00	2.233	2.244	-0.011	1.000	14546931		2.74(1.55-4.65)	84.6	2555	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.515	2.533	-0.018	0.750	1173922	2.29		98.2	893	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.526	2.535	-0.009	1.004	8926658	8.98		96.1	13126	
D 10 13C2 PFHxA										
315.00 > 270.00	2.558	2.573	-0.015	0.763	6374110	2.63		105	3439	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.558	2.573	-0.015	1.000	19328145	9.09	Target=9.68	90.9	2343	
313.00 > 119.00	2.558	2.573	-0.015	1.000	2115130		9.14(4.84-14.52)	90.9	1293	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.579	2.587	-0.008	1.155	19185228	8.95	Target=2.01	95.4	2631	
349.00 > 99.00	2.579	2.587	-0.008	1.155	10228189		1.88(1.00-3.01)	95.4	2561	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.674	2.692	-0.018	0.797	4444390	2.67		107	3977	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.674	2.691	-0.017	1.000	6818485	9.69		96.9	4008	
D 17 18O2 PFHxS										
403.00 > 84.00	2.957	2.969	-0.012	0.882	5857043	2.38		100	2833	
D 15 13C4 PFHpA										
367.00 > 322.00	2.952	2.965	-0.013	0.880	6021243	2.55		102	3416	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.957	2.971	-0.014	1.000	24439953	8.37	Target=3.29	91.9	1158	
399.00 > 99.00	2.957	2.971	-0.014	1.000	7961571		3.07(1.65-4.94)	91.9	1400	M
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.952	2.966	-0.014	1.000	22824600	8.54	Target=3.74	85.4	2513	
363.00 > 169.00	2.952	2.966	-0.014	1.000	7089932		3.22(1.87-5.61)	85.4	3062	
19 DONA										
377.00 > 251.00	3.002	3.017	-0.015	0.803	37803976	7.64	Target=1.80	81.1	11288	
377.00 > 85.00	3.002	3.017	-0.015	0.803	23538154		1.61(0.90-2.70)	81.1	7390	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.331	3.352	-0.021	0.993	994866	2.25		94.9	1032	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.331	3.353	-0.022	1.000	5847420	9.05		95.5	4163	
$ 21 13C8 PFOA										
421.00 > 376.00	3.346	3.362	-0.016	0.998	5218033	2.81		115	6850	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.353	3.369	-0.016	0.897	21612393	8.57	Target=3.65	90.0	2276	
449.00 > 99.00	3.353	3.369	-0.016	0.897	6598072		3.28(1.83-5.48)	90.0	2456	
D 26 13C4 PFOA										
417.00 > 372.00	3.353	3.376	-0.023	1.000	5685447	2.57		103	5572	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.353	3.375	-0.022	1.000	20197112	8.23	Target=2.37	82.3	3017	
413.00 > 169.00	3.361	3.375	-0.014	1.002	9354471		2.16(1.19-3.56)	82.3	4811	
* 25 13C2 PFOA										
415.00 > 370.00	3.353	3.376	-0.023		5730185	2.50			3043	
$ 27 13C8 PFOS										
507.00 > 99.00	3.729	3.748	-0.019	1.112	1440919	2.47		103	2434	
D 31 13C4 PFOS										
503.00 > 80.00	3.737	3.756	-0.019	1.114	6518762	2.53		106	1700	
28 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.737	3.756	-0.019	1.000	24594195	8.67	Target=4.12	93.5	1103	
499.00 > 99.00	3.737	3.756	-0.019	1.000	6341156		3.88(2.06-6.17)	93.5	2692	
D 29 13C5 PFNA										
468.00 > 423.00	3.746	3.767	-0.021	1.117	4878315	2.54		102	7512	
30 Perfluorononanoic acid										
463.00 > 419.00	3.746	3.770	-0.024	1.000	18028540	9.28	Target=4.21	92.8	6282	
463.00 > 169.00	3.746	3.770	-0.024	1.000	4663544		3.87(2.11-6.32)	92.8	2718	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.939	3.956	-0.017	1.054	15237600	8.90		95.5	6490	
D 36 13C8 FOSA										
506.00 > 78.00	4.079	4.086	-0.008	1.216	2993418	2.47		98.9	3317	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.079	4.086	-0.008	1.000	29831465	8.96		89.6	4148	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.087	4.106	-0.019	1.094	17298133	8.36	Target=5.56	87.0	3704	
549.00 > 99.00	4.079	4.106	-0.028	1.091	3360285		5.15(2.78-8.34)	87.0	5755	
D 33 13C2 PFDA										
515.00 > 470.00	4.114	4.130	-0.016	1.227	6061061	2.49		99.5	6236	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.114	4.133	-0.019	1.227	1170256	2.17		90.4	909	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.114	4.132	-0.018	1.000	20379921	8.42	Target=14.33	84.2	6366	
513.00 > 169.00	4.114	4.132	-0.018	1.000	1708537		11.93(7.16-21.49)	84.2	368	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.114	4.135	-0.021	1.000	5940630	9.44		98.5	6344	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.276	4.295	-0.019	1.275	3259183	2.69		108	2287	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.276	4.299	-0.023	1.000	10844354	11.0		110	145724	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.405	4.427	-0.022	1.179	20976727	9.06	Target=4.29	93.9	4541	
599.00 > 99.00	4.405	4.427	-0.022	1.179	5356240		3.92(2.15-6.44)	93.9	5852	
D 46 13C2 PFUnA										
565.00 > 520.00	4.431	4.455	-0.024	1.321	4768918	2.54		102	7479	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.431	4.455	-0.024	1.000	13097707	9.86	Target=6.74	98.6	6818	
563.00 > 169.00	4.431	4.455	-0.024	1.000	2089251		6.27(3.37-10.11)	98.6	3975	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.440	4.460	-0.020	1.324	2007740	2.47		98.9	1745	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.448	4.467	-0.019	1.002	6927848	10.6		106	102265	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.542	4.546	-0.004	1.355	5127070	13.2		105	4920	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.551	4.557	-0.006	1.002	4229635	9.88		98.8	5010	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.560	4.565	-0.005	1.360	1520689	2.79		112	246	
50 NMeFOSA										
512.00 > 169.00	4.560	4.569	-0.009	1.000	6260597	9.87		98.7	2416	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.569	4.588	-0.019	1.223	18995447	9.41		99.9	6121	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.709	4.718	-0.009	1.404	5550151	13.6		109	5083	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.728	4.731	-0.003	1.004	4643129	10.5		105	6088	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.737	4.741	-0.004	1.412	1558608	2.75		110	806	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	4.728	4.747	-0.019	1.410	4772733	2.59		103	6688	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.728	4.747	-0.019	1.000	15400710	8.77	Target=6.67	87.7	8034	
613.00 > 169.00	4.728	4.747	-0.019	1.000	2446749		6.29(3.34-10.01)	87.7	5172	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.746	4.749	-0.003	1.002	6060955	9.77		97.7	1028	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.746	4.766	-0.020	1.154	4185075	10.4		108	13879	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.957	4.978	-0.021	1.327	3559961	10.3	Target=1.02	106	4630	
699.00 > 99.00	4.949	4.978	-0.029	1.324	3559978		1.00(0.51-1.53)	106	8455	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.990	5.013	-0.023	1.056	12266037	8.84	Target=4.80	88.4	10868	
663.00 > 169.00	4.990	5.013	-0.023	1.056	2630849		4.66(2.40-7.20)	88.4	4340	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.232	5.258	-0.026	1.560	3490257	2.71		108	5806	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.232	5.259	-0.027	1.000	2245611	9.12	Target=1.37	91.2	5503	
713.00 > 219.00	5.232	5.259	-0.027	1.000	1683803		1.33(0.69-2.06)	91.2	4672	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.668	5.703	-0.035	1.690	2579666	2.71		108	6298	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.668	5.705	-0.037	1.000	8969968	9.48	Target=4.63	94.8	5955	
813.00 > 169.00	5.668	5.705	-0.037	1.000	2010908		4.46(2.32-6.95)	94.8	6266	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.092	6.139	-0.047	1.075	7120596	9.23	Target=4.01	92.3	2909	
913.00 > 169.00	6.092	6.139	-0.047	1.075	1745340		4.08(2.01-6.02)	92.3	2295	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL7_00024 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:15:12 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Injection Date: 10-Sep-2020 12:29:20 Instrument ID: A9

Lims ID: IC L7

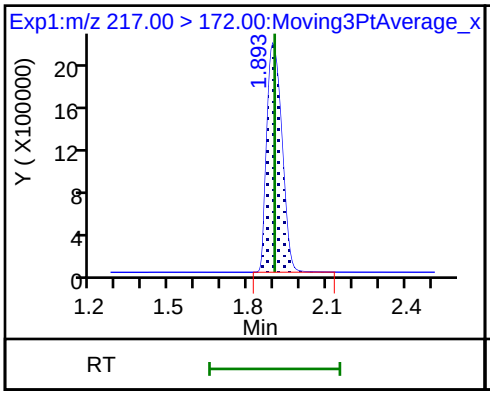
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 16 Worklist Smp#: 13

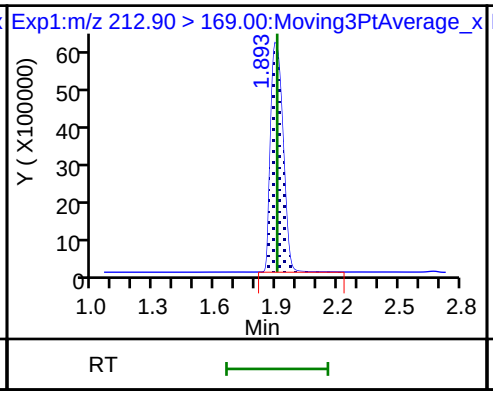
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

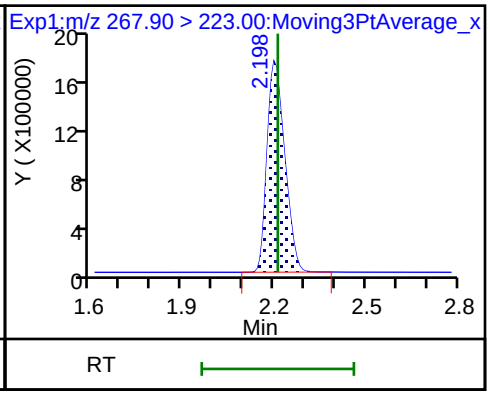
D 1 13C4 PFBA



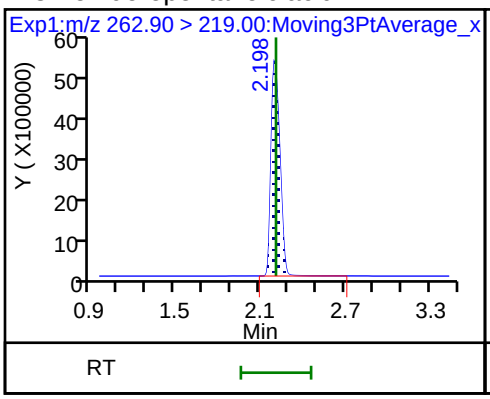
2 Perfluorobutanoic acid



D 4 13C5 PFPeA



3 Perfluoropentanoic acid



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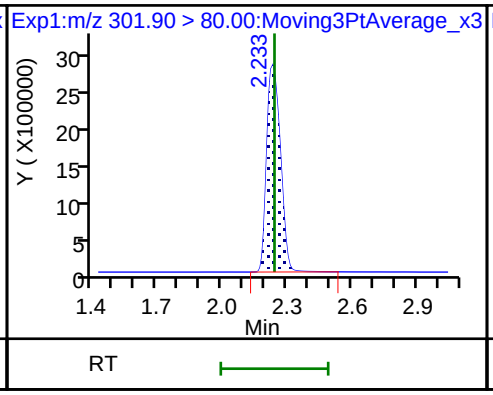
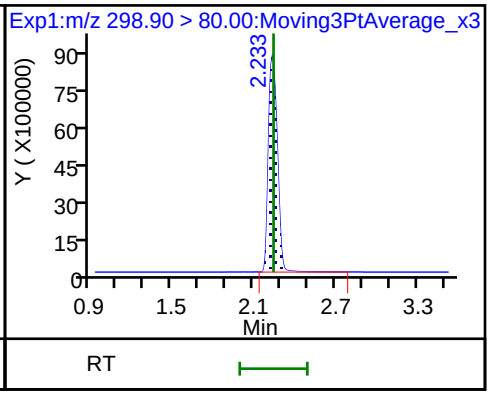
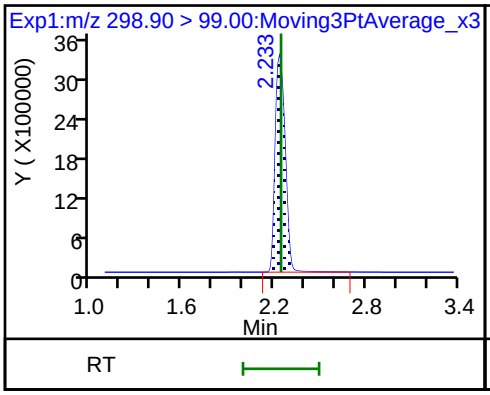


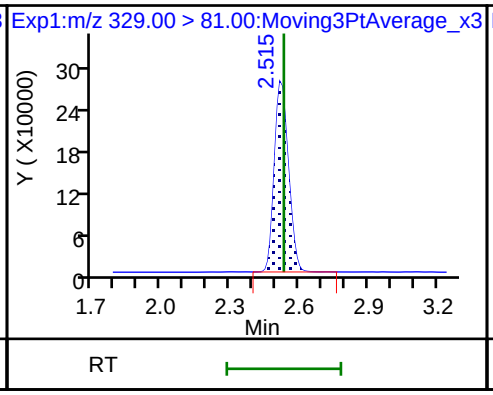
5 Perfluorobutanesulfonic acid



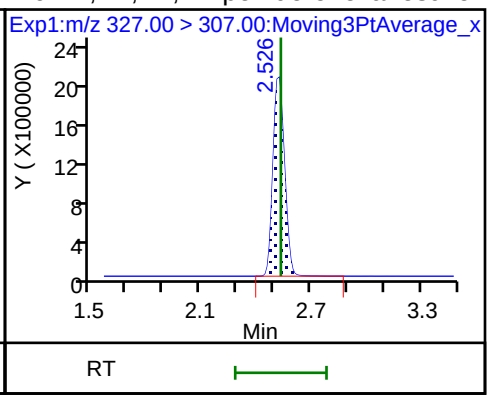
5 Perfluorobutanesulfonic acid



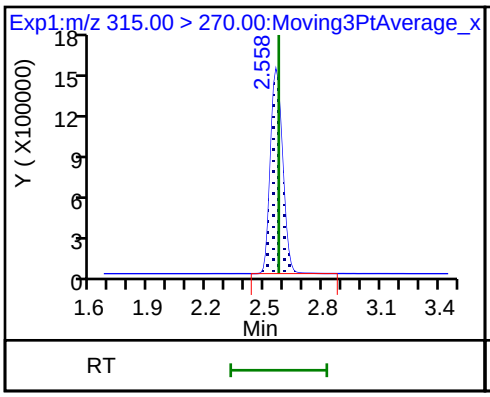
D 8 M2-4:2 FTS



9 1H,1H,2H,2H-perfluorohexanesulfo



D 10 13C2 PFHxA



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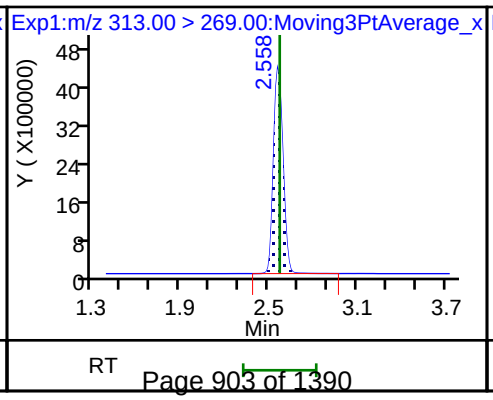
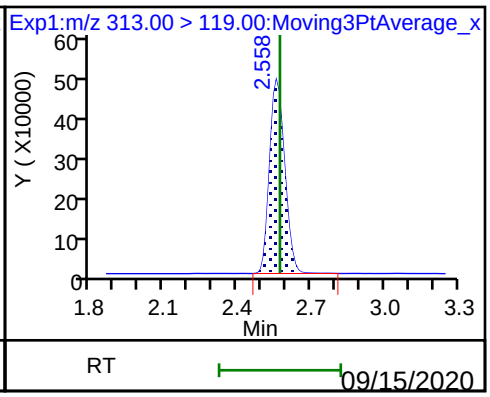
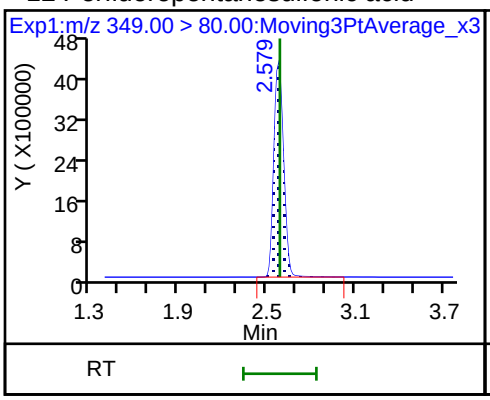


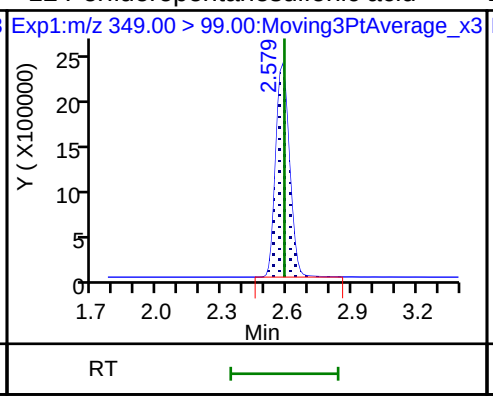
11 Perfluorohexanoic acid



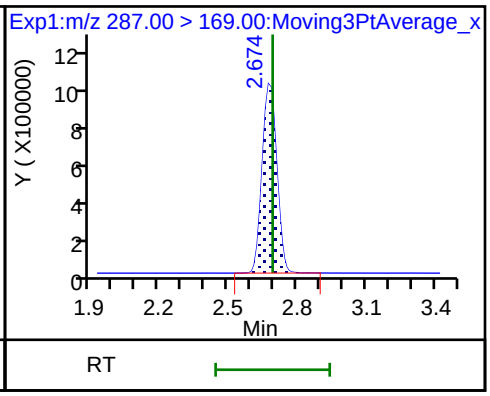
12 Perfluoropentanesulfonic acid



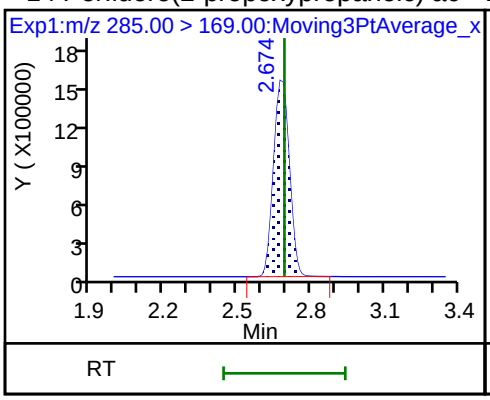
12 Perfluoropentanesulfonic acid



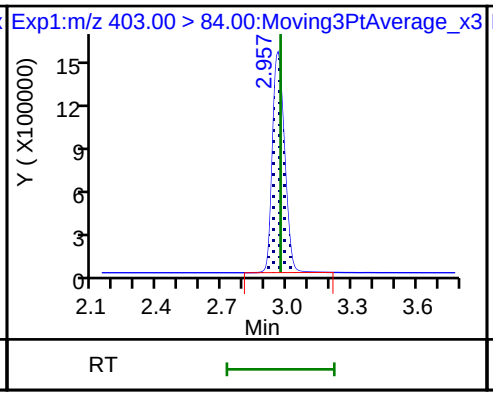
D 13 13C3 HFPO-DA



14 Perfluoro(2-propoxypropanoic) ac



D 17 18O2 PFHxS



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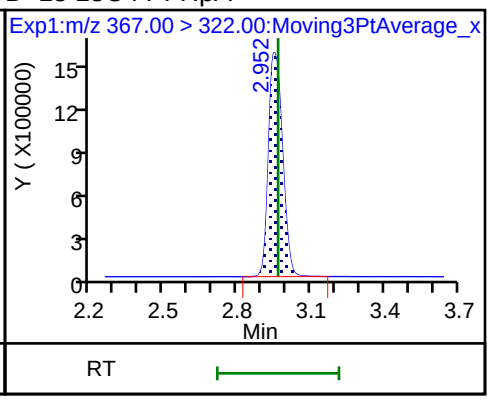
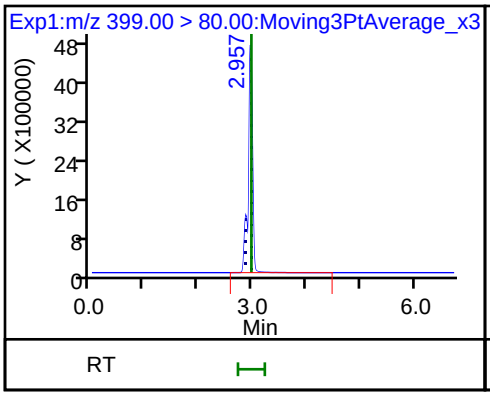
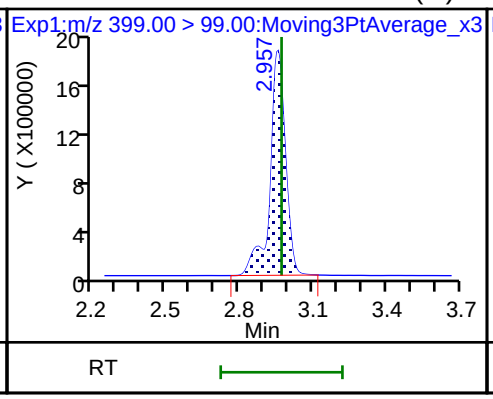


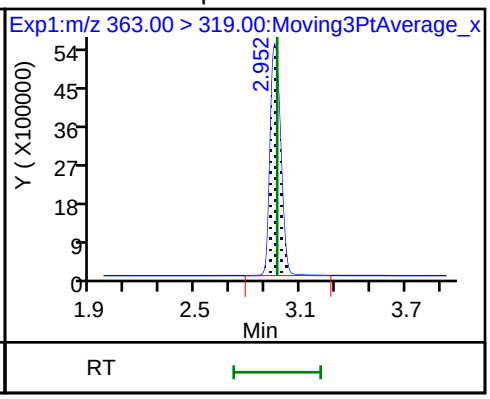
16 Perfluorohexanesulfonic acid



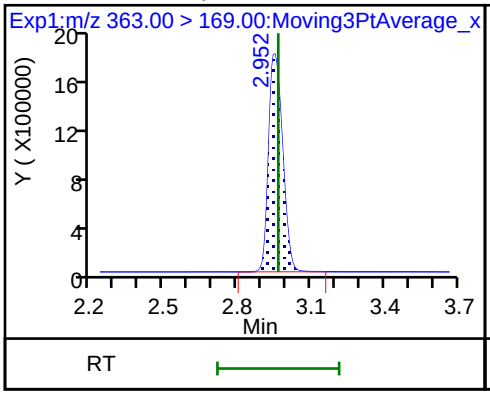
16 Perfluorohexanesulfonic acid (M)



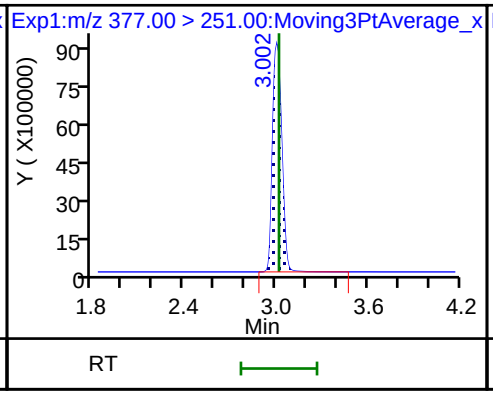
18 Perfluoroheptanoic acid



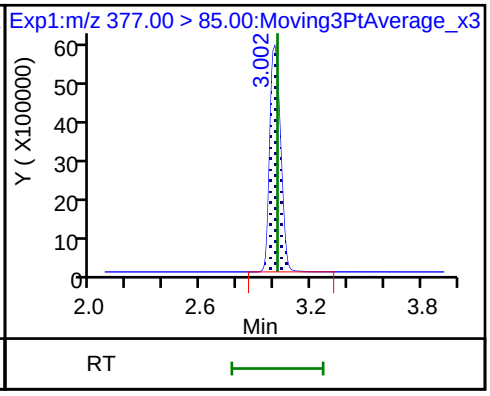
18 Perfluoroheptanoic acid



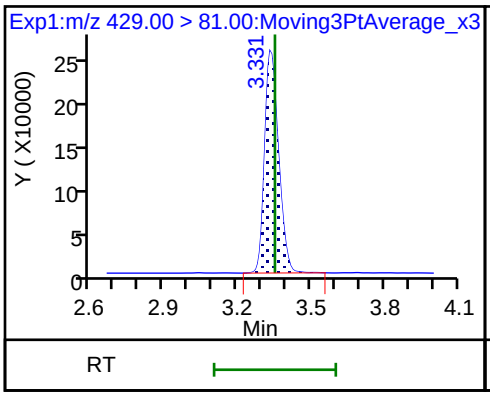
19 DONA



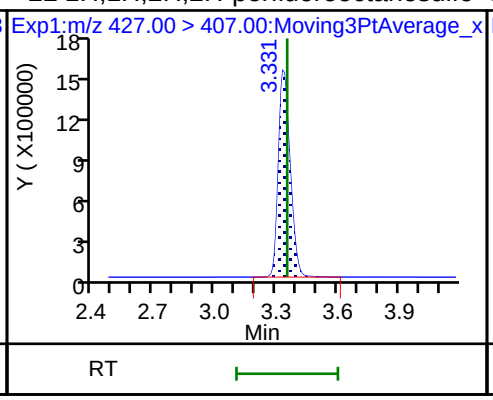
19 DONA



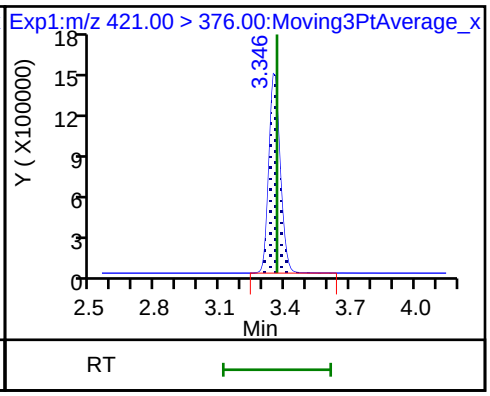
D 20 M2-6:2 FTS



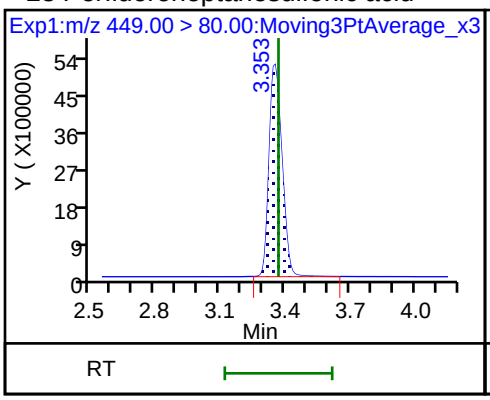
22 1H,1H,2H,2H-perfluorooctanesulfo



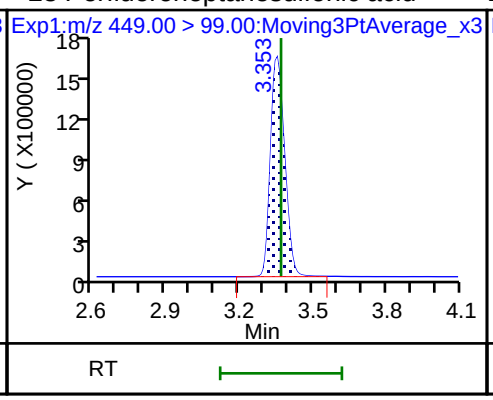
$ 21 13C8 PFOA



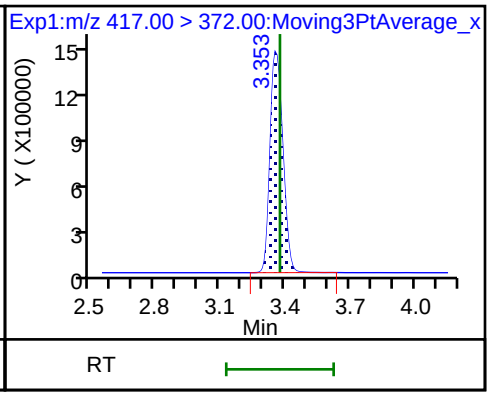
23 Perfluoroheptanesulfonic acid



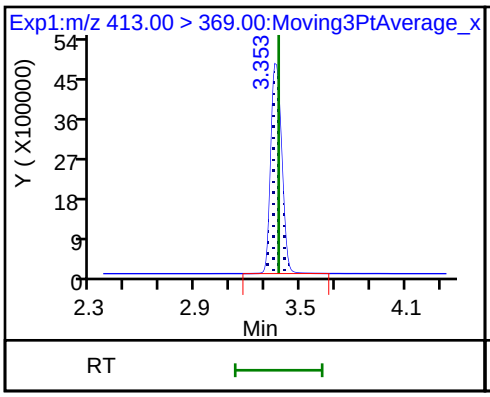
23 Perfluoroheptanesulfonic acid



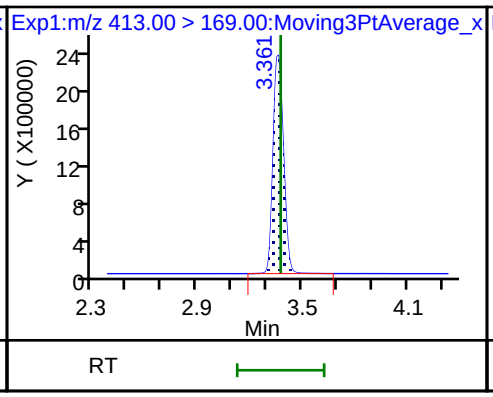
D 26 13C4 PFOA



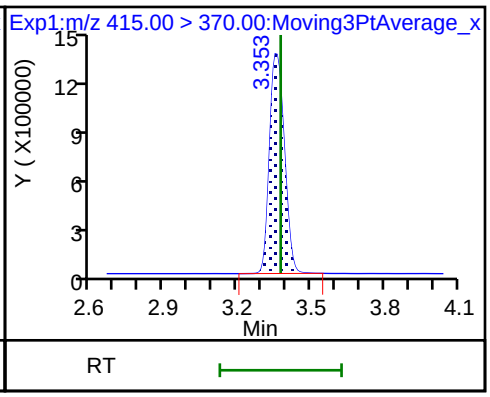
24 Perfluorooctanoic acid



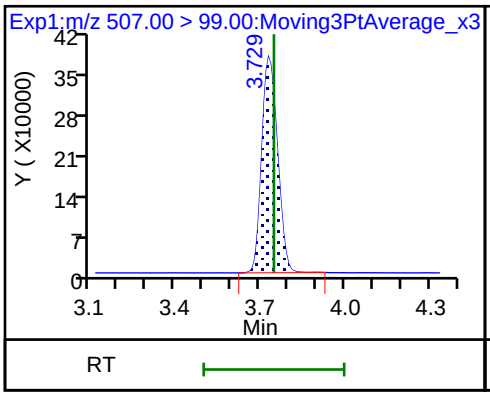
24 Perfluorooctanoic acid



* 25 13C2 PFOA



$ 27 13C8 PFOS



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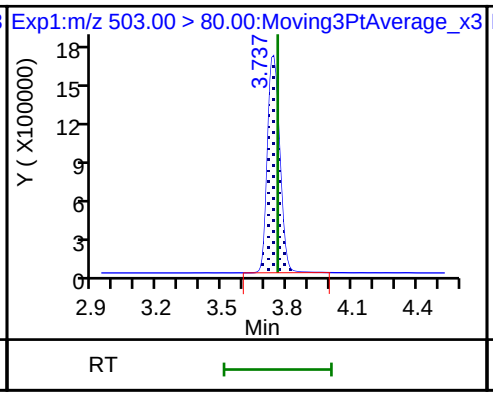
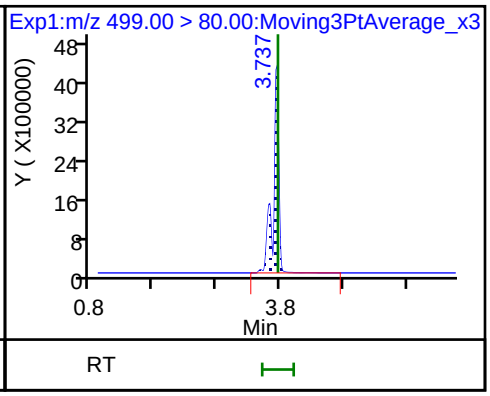
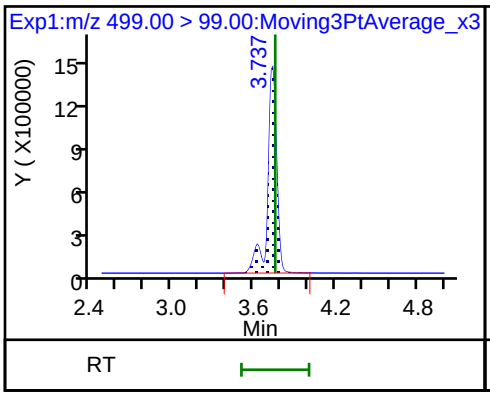


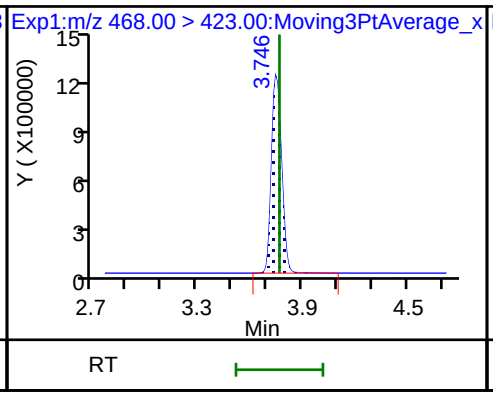
28 Perfluorooctanesulfonic acid



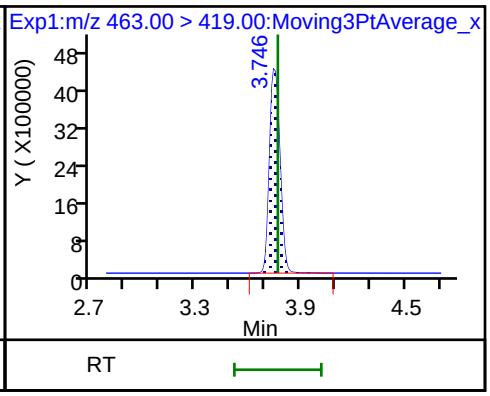
28 Perfluorooctanesulfonic acid



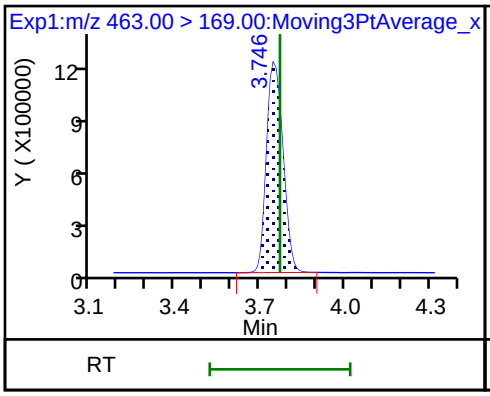
D 29 13C5 PFNA



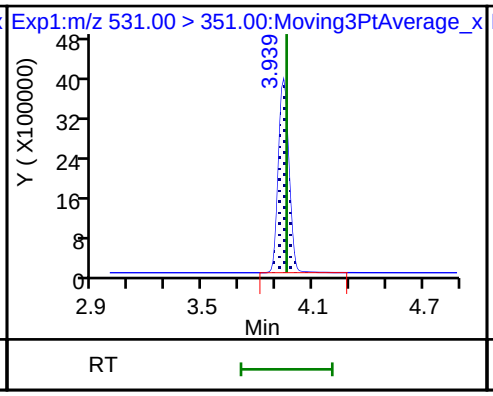
30 Perfluorononanoic acid



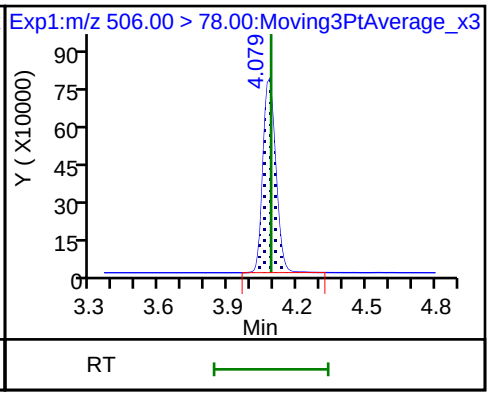
30 Perfluorononanoic acid



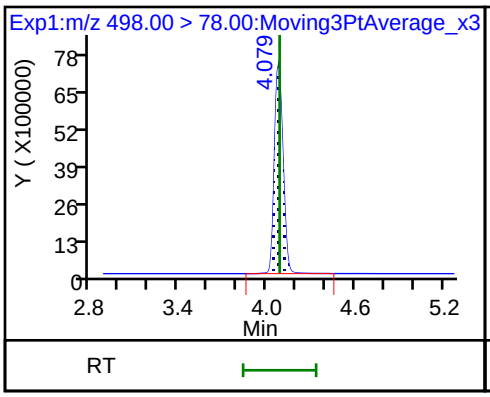
32 9-Chlorohexadecafluoro-3-oxanona



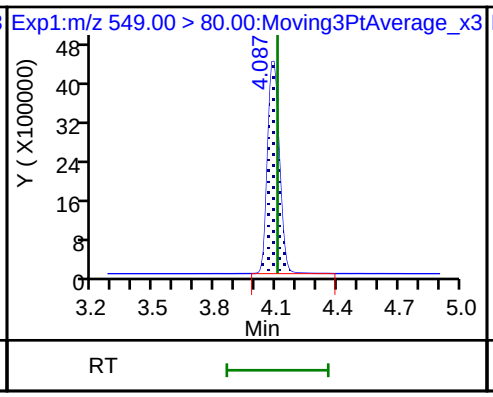
D 36 13C8 FOSA



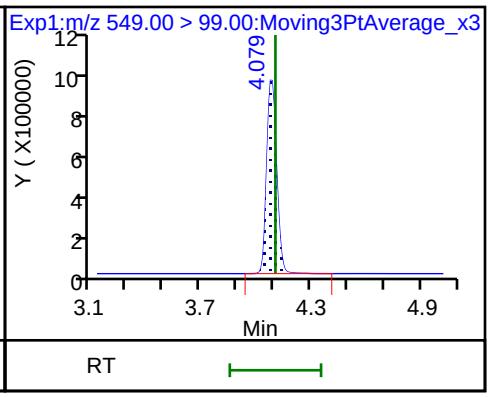
34 Perfluorooctanesulfonamide



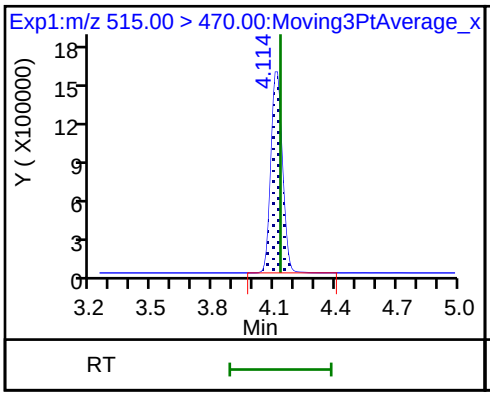
35 Perfluorononanesulfonic acid



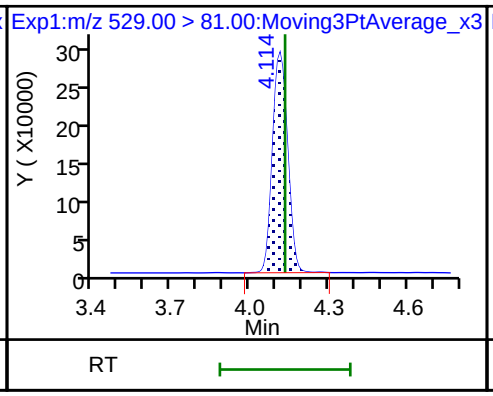
35 Perfluorononanesulfonic acid



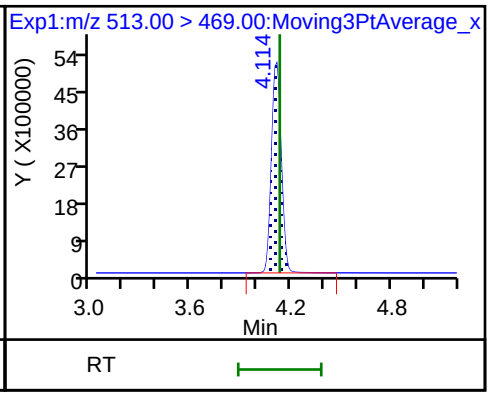
D 33 13C2 PFDA



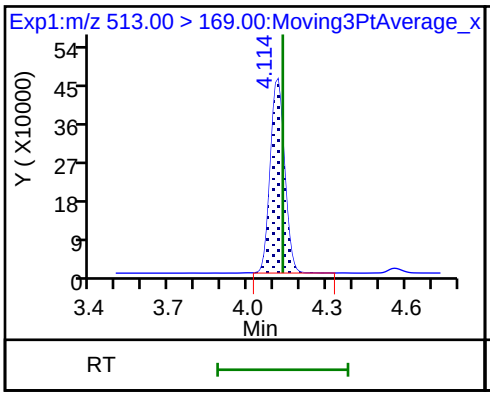
D 37 M2-8:2 FTS



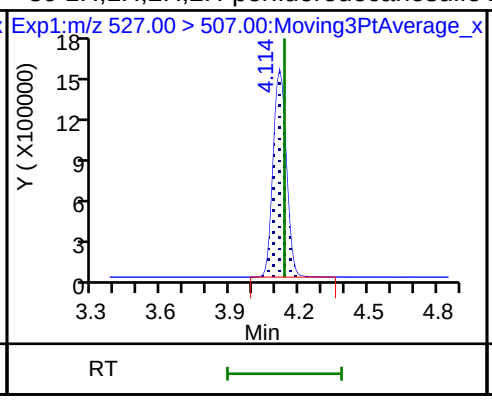
38 Perfluorodecanoic acid



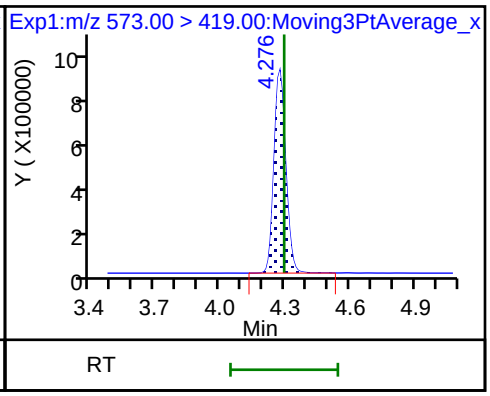
38 Perfluorodecanoic acid



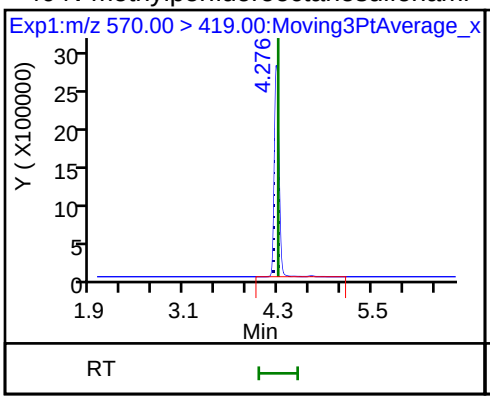
39 1H,1H,2H,2H-perfluorodecanesulfo



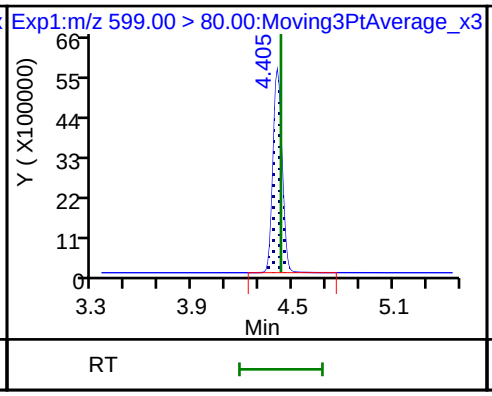
D 41 d3-NMeFOSAA



40 N-methylperfluorooctanesulfonami



42 Perfluorodecanesulfonic acid



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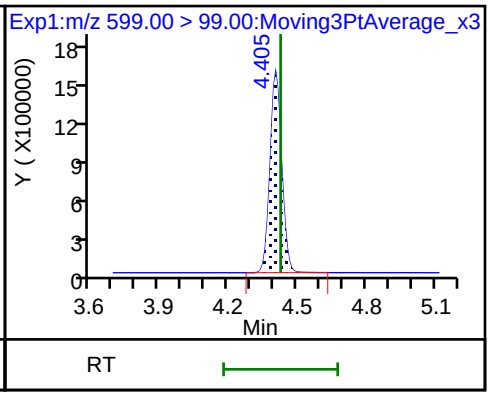
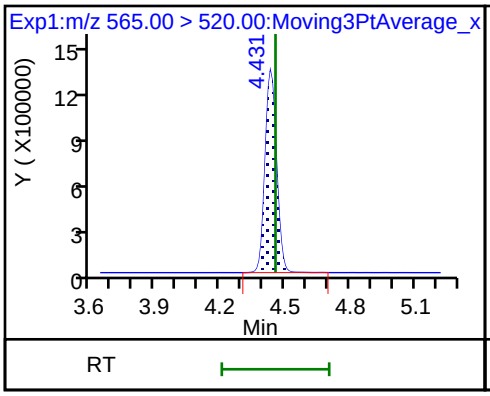
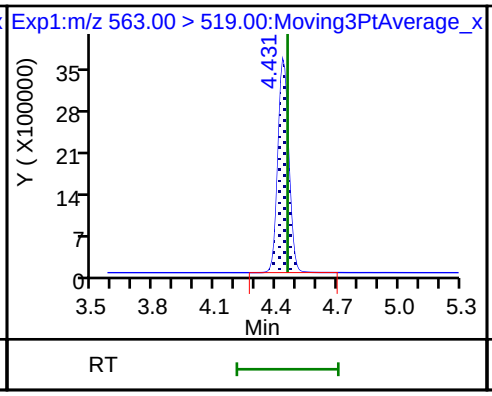


D 46 13C2 PFUnA



43 Perfluoroundecanoic acid



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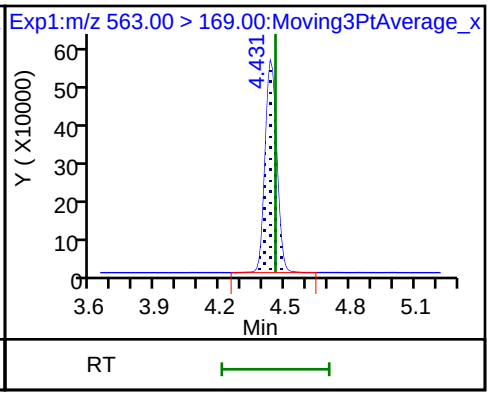
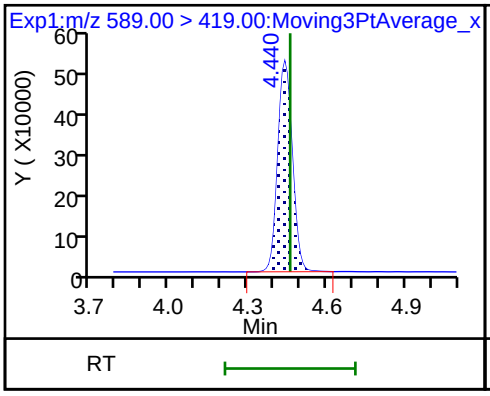
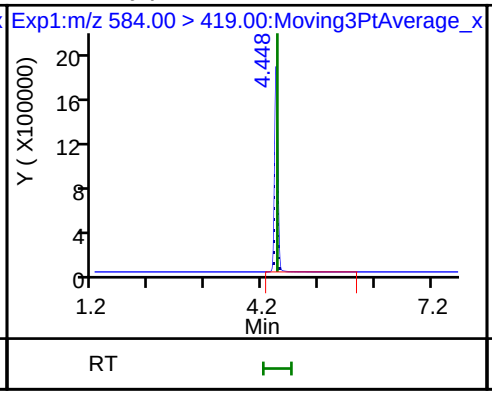


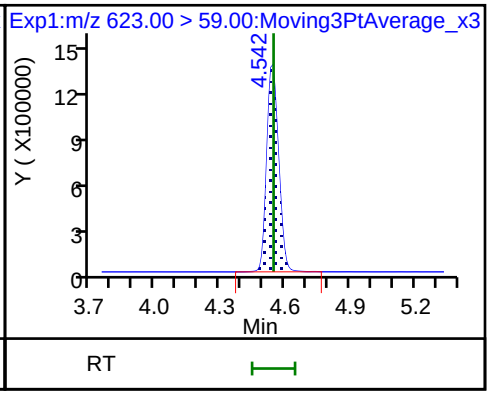
D 45 d5-NEtFOSAA



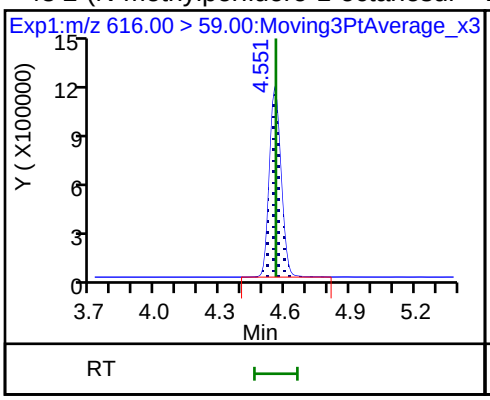
44 N-ethylperfluorooctanesulfonamid



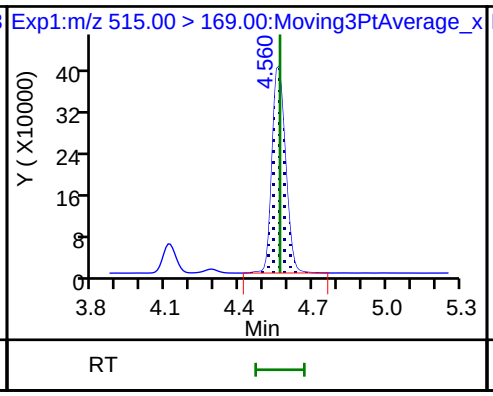
D 47 d7-N-MeFOSE-M



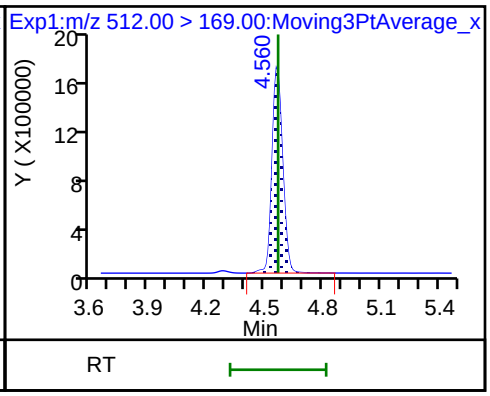
48 2-(N-methylperfluoro-1-octanesul



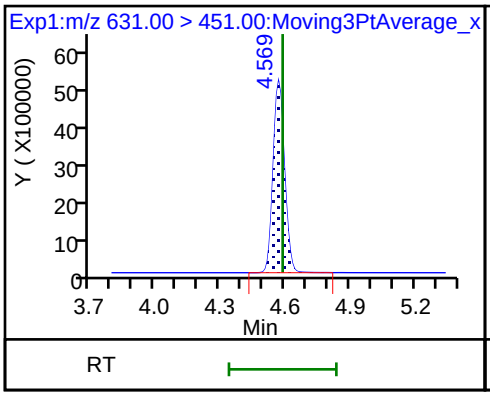
D 49 d-N-MeFOSA-M



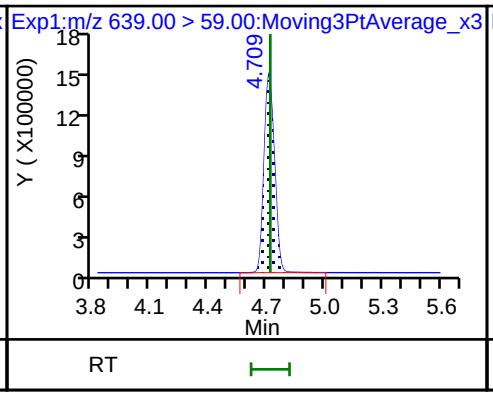
50 NMeFOSA



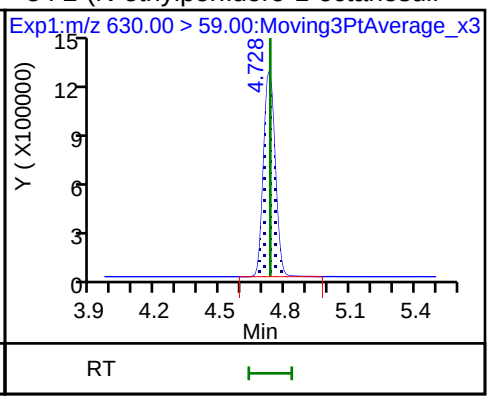
51 11-Chloroeicosafluoro-3-oxaundec



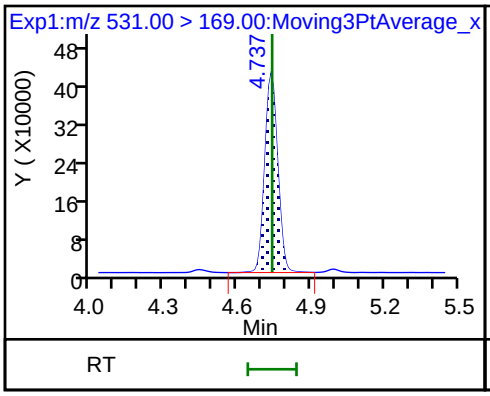
D 53 d9-N-EtFOSE-M



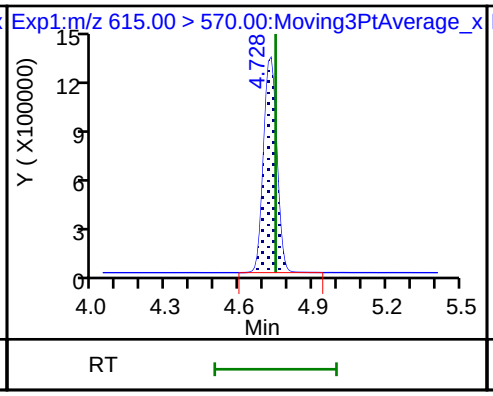
54 2-(N-ethylperfluoro-1-octanesulf



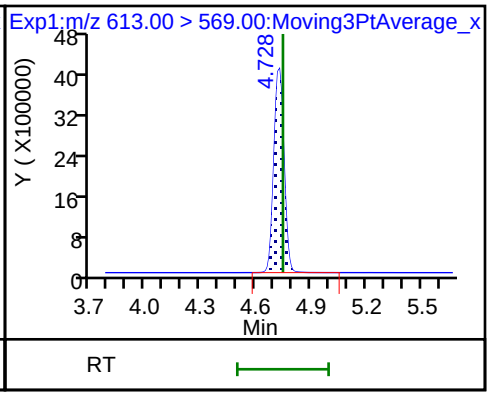
D 58 d-N-EtFOSA-M



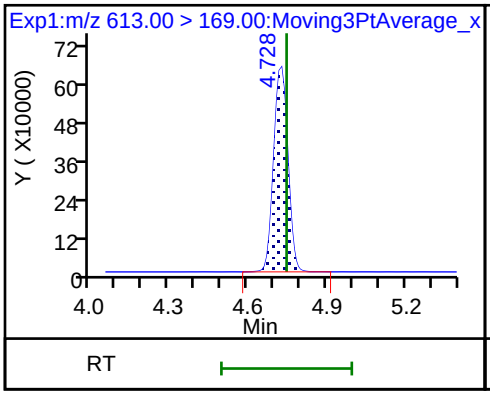
D 56 13C2 PFDoA



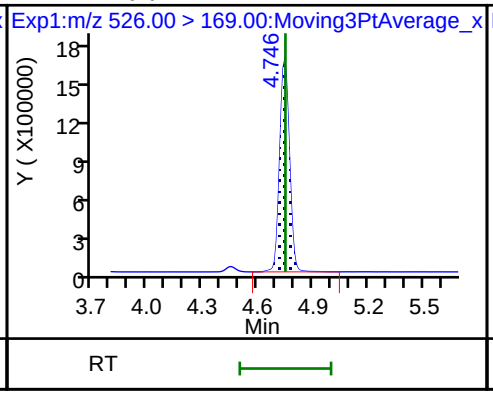
52 Perfluorododecanoic acid



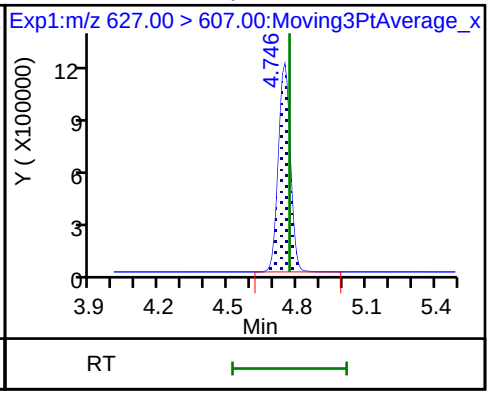
52 Perfluorododecanoic acid



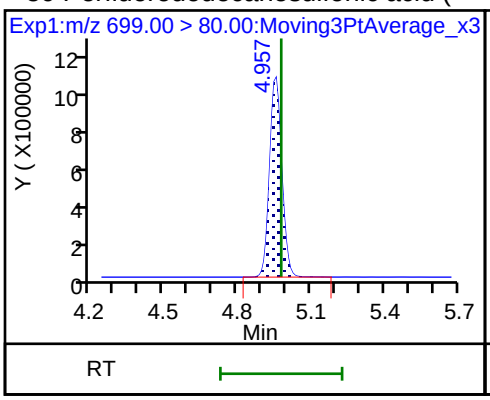
57 N-ethylperfluoro-1-octanesulfona



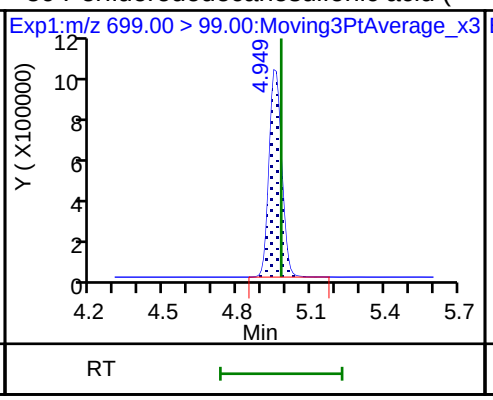
55 1H,1H,2H,2H-perfluorododecanesul



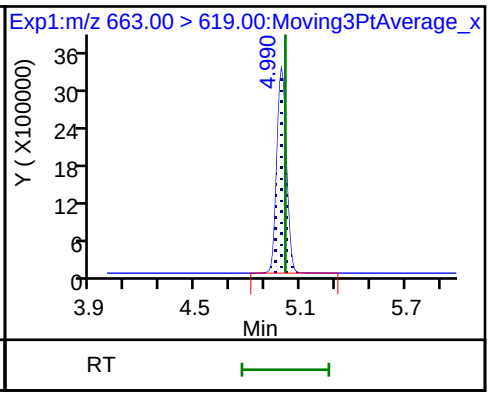
59 Perfluorododecanesulfonic acid (



59 Perfluorododecanesulfonic acid (



60 Perfluorotridecanoic acid



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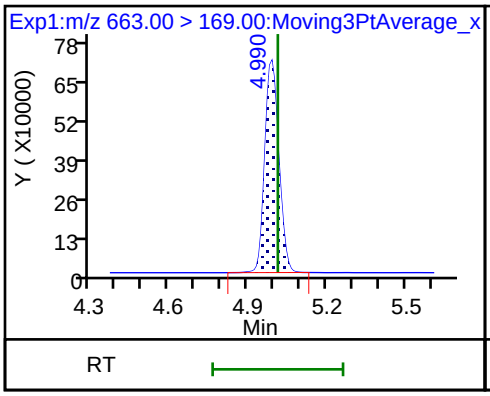
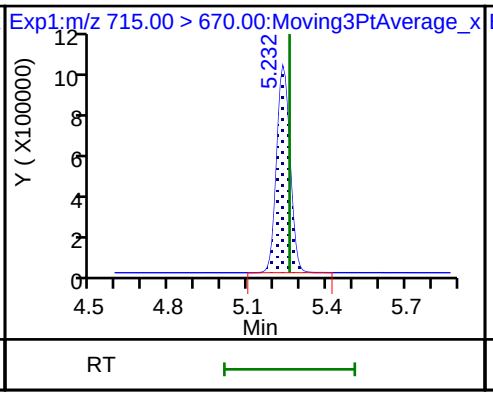
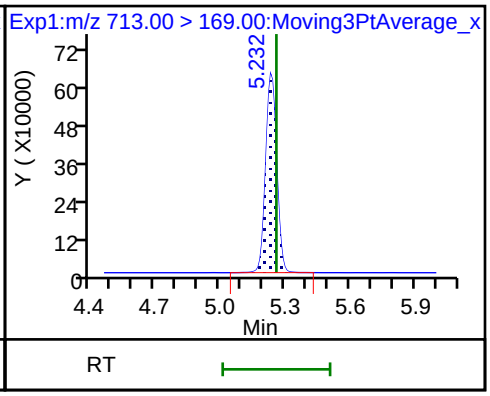


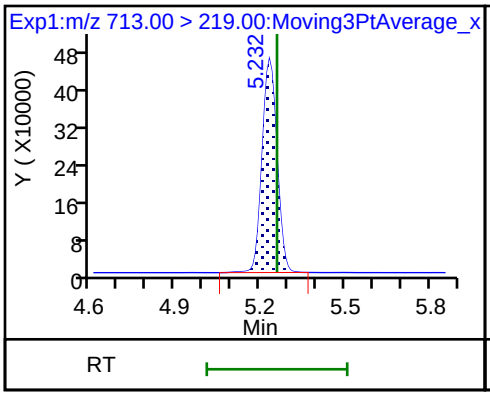
D 62 13C2 PFTeDA



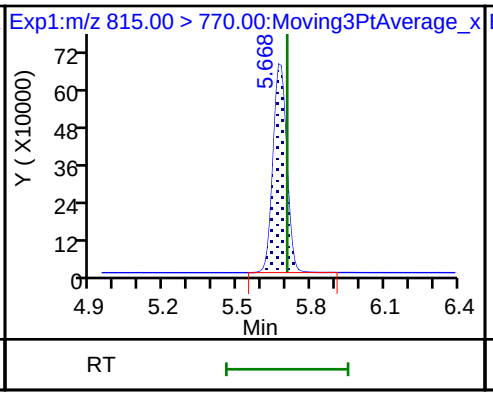
61 Perfluorotetradecanoic acid



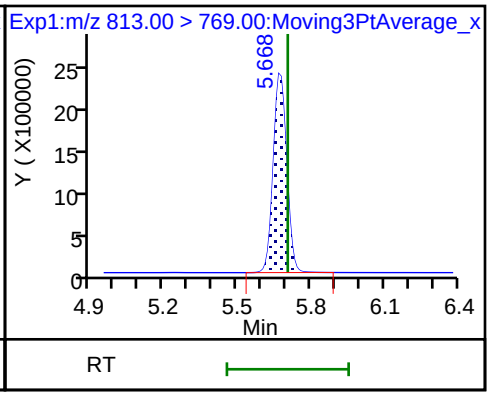
61 Perfluorotetradecanoic acid



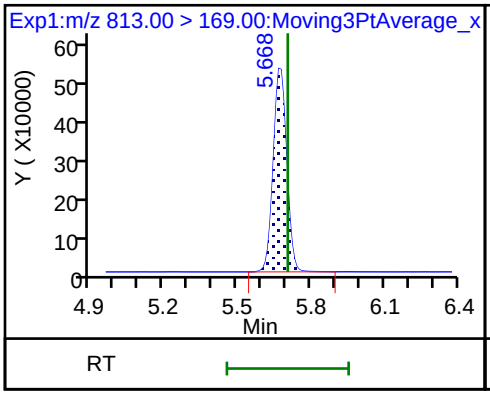
D 63 13C2 PFHxDA



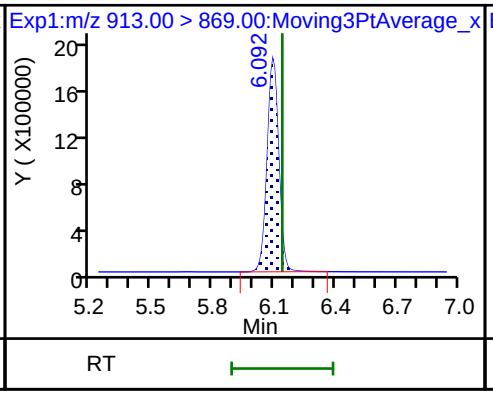
64 Perfluorohexadecanoic acid



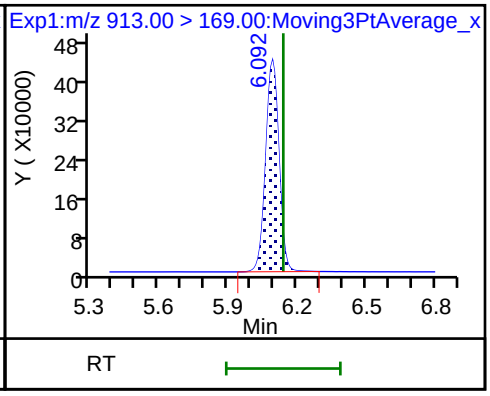
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

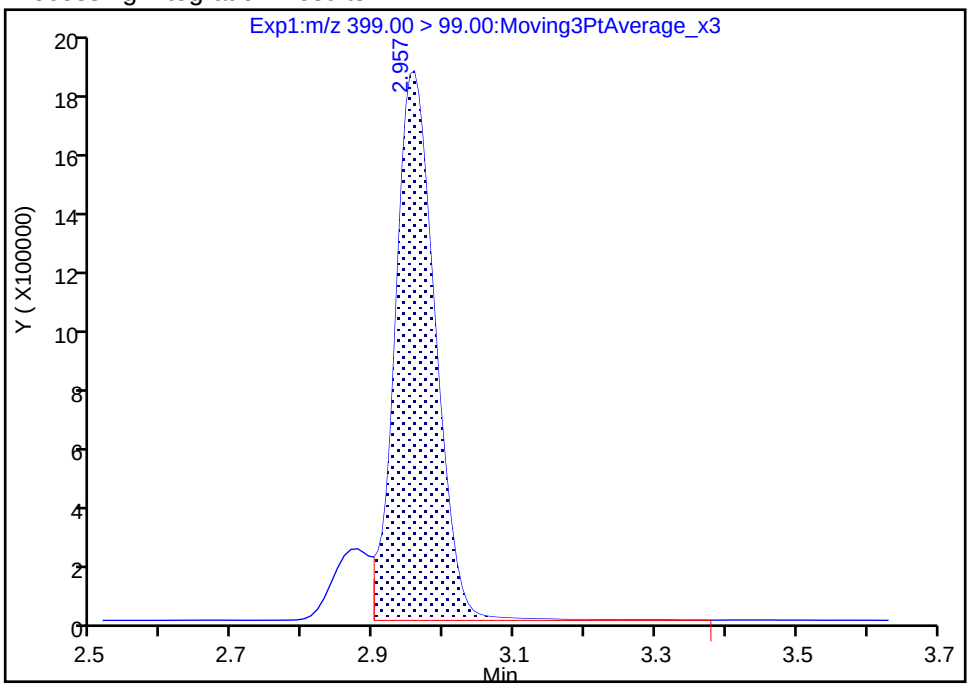
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d
Injection Date: 10-Sep-2020 12:29:20 Instrument ID: A9
Lims ID: IC L7
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 16 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

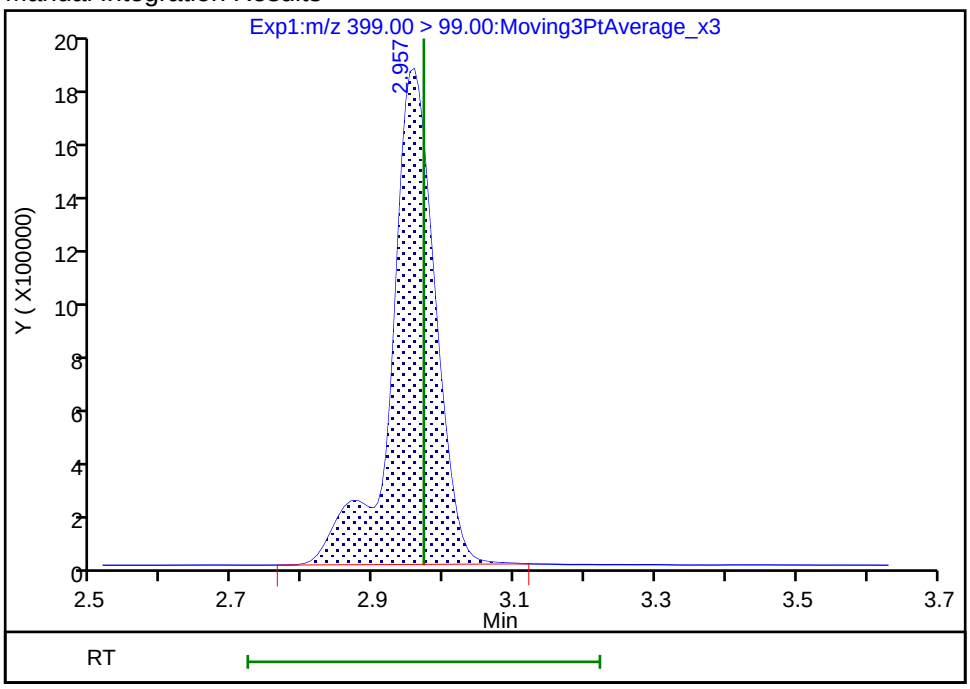
Processing Integration Results

RT: 2.96
Area: 7179478
Amount: 8.366428
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 7961571
Amount: 8.366428
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 12:57:12
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: ICV 320-406555/10 Calibration Date: 08/25/2020 17:56

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.08.25_A18_ICAL_A_019.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.8711		2.51	2.50	0.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	0.9901		2.48	2.50	-0.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.016		2.52	2.50	0.6	50.0
4:2 FTS	AveID	2.273	2.316		2.38	2.34	1.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	0.996		2.58	2.50	3.3	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.7690		2.28	2.35	-3.0	50.0
HFPO-DA (GenX)	AveID	0.9742	1.003		2.57	2.50	3.0	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	0.9762		2.41	2.50	-3.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.174		2.48	2.50	-0.6	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	9.684		2.53	2.50	1.1	50.0
6:2 FTS	AveID	2.299	2.122		2.19	2.37	-7.7	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.118		2.38	2.38	0.0	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.037		2.54	2.50	1.6	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	0.9822		2.37	2.50	-5.1	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	1.279		3.33	2.50	33.4	40.0
F-53B Major	AveID	3.236	3.282		2.54	2.50	1.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9067		2.44	2.50	-2.6	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	0.9057		2.32	2.40	-3.3	50.0
8:2 FTS	AveID	1.775	1.811		2.44	2.40	2.0	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.9146		2.37	2.50	-5.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.6894		2.32	2.50	-7.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.7745		2.24	2.41	-7.2	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.6644		2.46	2.50	-1.7	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.7746		2.67	2.50	6.8	40.0
NMeFOSE	AveID	1.080	1.073		2.49	2.50	-0.6	40.0
NMeFOSA	AveID	0.9606	0.7837		2.04	2.50	-18.4	50.0
F-53B Minor	AveID	4.102	4.010		2.44	2.50	-2.2	50.0
NEtFOSE	AveID	1.073	1.064		2.48	2.50	-0.8	40.0
NEtFOSA	AveID	1.058	0.8109		1.92	2.50	-23.4	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.8265		2.02	2.50	-19.2	40.0
10:2 FTS	AveID	2.014	1.971		2.36	2.41	-2.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3221		2.34	2.42	-3.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

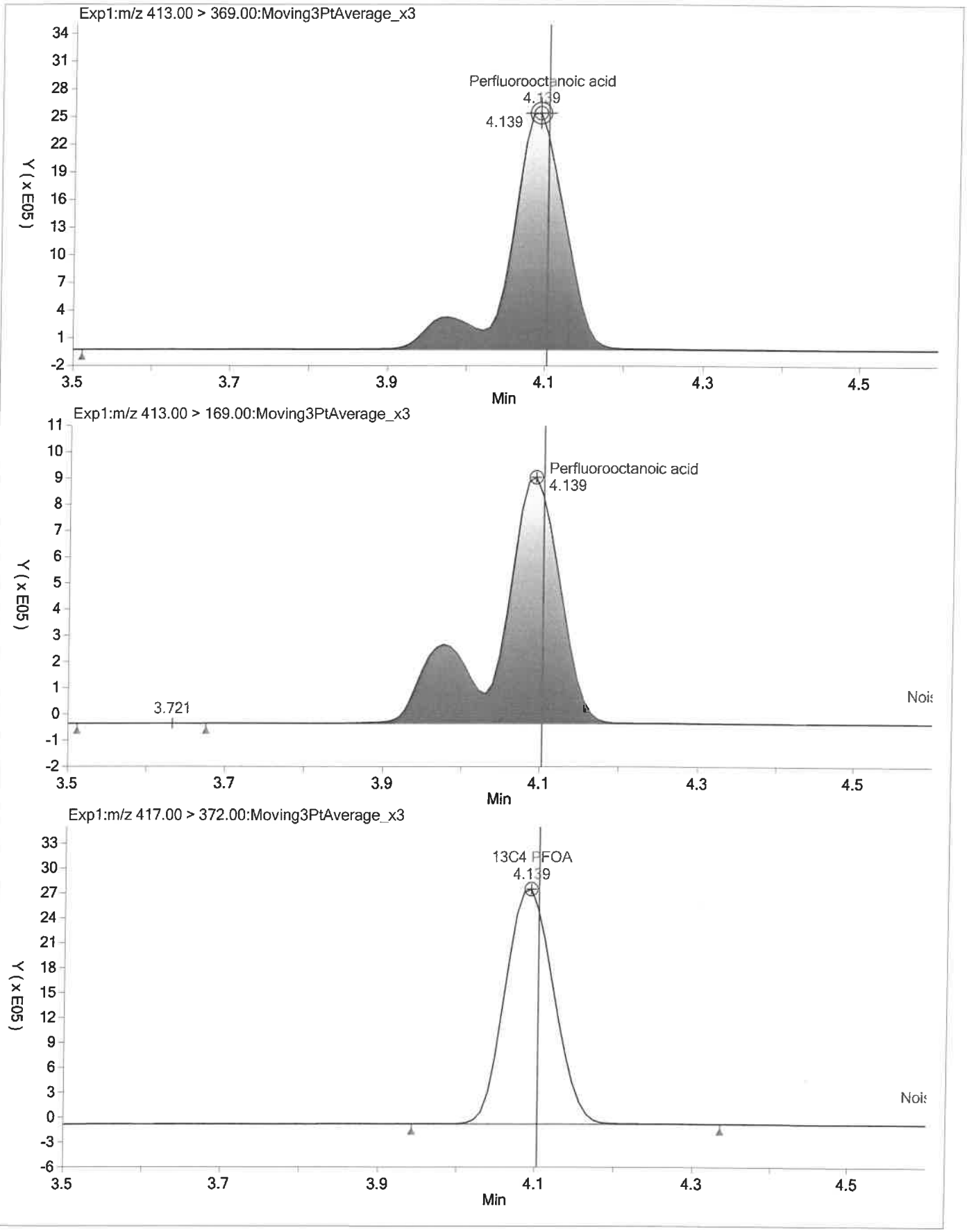
Lab Sample ID: ICV 320-406555/10 Calibration Date: 08/25/2020 17:56

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.08.25_A18_ICAL_A_019.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	0.7267		1.93	2.50	-22.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.0969		2.87	2.50	14.8	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8964		2.53	2.50	1.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.6813		2.58	2.50	3.2	50.0
13C4 PFBA	Ave	1.585	1.609		2.54	2.50	1.5	50.0
13C5 PFPeA	Ave	1.233	1.203		2.44	2.50	-2.4	50.0
13C3 PFBS	Ave	0.9684	1.002		2.41	2.33	3.5	50.0
M2-4:2 FTS	Ave	0.2333	0.2164		2.17	2.34	-7.2	50.0
13C2 PFHxA	Ave	1.231	1.285		2.61	2.50	4.4	50.0
13C3 HFPO-DA	Ave	0.2518	0.2504		2.49	2.50	-0.6	50.0
13C4 PFHpA	Ave	1.051	1.139		2.71	2.50	8.4	50.0
18O2 PFHxS	Ave	0.5117	0.5194		2.40	2.37	1.5	50.0
M2-6:2 FTS	Ave	0.1958	0.1942		2.36	2.38	-0.8	50.0
13C4 PFOA	Ave	1.001	0.9054		2.26	2.50	-9.5	50.0
13C4 PFOS	Ave	0.3465	0.3545		2.45	2.39	2.3	50.0
13C5 PFNA	Ave	0.8063	0.6961		2.16	2.50	-13.7	50.0
13C8 FOSA	Ave	0.5590	0.5630		2.52	2.50	0.7	50.0
13C2 PFDA	Ave	0.7829	0.8809		2.81	2.50	12.5	50.0
M2-8:2 FTS	Ave	0.2823	0.2677		2.27	2.40	-5.2	50.0
d3-NMeFOSAA	Ave	0.5255	0.5376		2.56	2.50	2.3	50.0
13C2 PFUnA	Ave	0.7758	0.7715		2.49	2.50	-0.6	50.0
d5-NEtFOSAA	Ave	0.5556	0.5547		2.50	2.50	-0.2	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1526		13.8	12.5	10.3	50.0
d-N-MeFOSA-M	Ave	0.1965	0.1961		2.50	2.50	-0.2	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1467		10.8	12.5	-13.7	50.0
d-N-EtFOSA-M	Ave	0.2011	0.2042		2.54	2.50	1.6	50.0
13C2 PFDoA	Ave	0.7650	0.9317		3.05	2.50	21.8	50.0
13C2 PFTeDA	Ave	0.6311	0.5734		2.27	2.50	-9.2	50.0
13C2 PFHxDA	Ave	0.4618	0.4670		2.53	2.50	1.1	50.0
13C8 PFOA	Ave	0.6756	0.6944		2.52	2.45	2.8	50.0
13C8 PFOS	Ave	0.1082	0.1074		2.37	2.39	-0.7	50.0


Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x3
Perfluorooctanoic acid
4.139
4.139
Y (x E05)
Min
Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3
Perfluorooctanoic acid
4.139
3.721
Nois
Y (x E05)
Min
Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x3
13C4 PFOA
4.139
Nois
Y (x E05)
Min

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_019.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-Aug-2020 17:56:13 ALS Bottle#: 14 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV (44)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist:

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:44:05 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 06:08:32
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.565	2.576	-0.011	0.620	17397189	2.54		101	6861	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.573	2.576	-0.003	1.003	15153823	2.51			524	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.930	2.944	-0.014	1.000	12881033	2.48			600	
D 4 13C5 PFPeA										
267.90 > 223.00	2.930	2.944	-0.014	0.708	13010009	2.44		97.6	6287	
D 9 13C3 PFBS										
301.90 > 80.00	2.973	2.979	-0.006	0.718	10075111	2.41		103	4541	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.973	2.979	-0.006	1.000	11003815	2.51	Target=2.30		2154	
298.90 > 99.00	2.973	2.979	-0.006	1.000	4866165		2.26(1.15-3.45)		1532	
8 4:2 FTS										
327.00 > 307.00	3.278	3.297	-0.019	1.000	5061673	2.38			12968	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.278	3.297	-0.019	0.792	2185368	2.17		92.8	960	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.330	3.339	-0.009	1.003	13836739	2.58	Target=13.78		945	
313.00 > 119.00	3.320	3.339	-0.019	1.000	1061407		13.04(6.89-20.66)		734	
D 11 13C2 PFHxA										
315.00 > 270.00	3.320	3.339	-0.019	0.802	13892177	2.61		104	5974	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.341	3.350	-0.009	1.124	7814378	2.28	Target=3.02		1725	
349.00 > 99.00	3.341	3.350	-0.009	1.124	2533332		3.08(1.51-4.52)		1526	
13 HPFO-DA										
285.00 > 169.00	3.447	3.467	-0.020	1.000	2715555	2.57			4298	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.447	3.467	-0.020	0.833	2707455	2.49		99.4	5493	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.740	3.756	-0.016	1.000	12024504	2.41	Target=3.84		1302	
363.00 > 169.00	3.740	3.756	-0.016	1.000	3255387		3.69(1.92-5.76)		1863	
D 18 13C4 PFHpA										
367.00 > 322.00	3.740	3.756	-0.016	0.904	12317873	2.71		108	8354	
D 17 18O2 PFHxS										
403.00 > 84.00	3.740	3.756	-0.016	0.904	5312882	2.40		102	8582	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.740	3.756	-0.016	1.000	6592703	2.48	Target=3.50		3248	
399.00 > 99.00	3.740	3.756	-0.016	1.000	1779859		3.70(1.75-5.25)		1126	
19 DONA										
377.00 > 251.00	3.789	3.803	-0.014	0.842	37117029	2.53	Target=2.42		7689	
377.00 > 85.00	3.789	3.803	-0.014	0.842	15119397		2.45(1.21-3.63)		6540	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.115	4.137	-0.022	0.994	1994342	2.36		99.2	1335	
21 6:2 FTS										
427.00 > 407.00	4.115	4.137	-0.022	1.000	4223076	2.19			3335	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.131	4.154	-0.023	0.998	10151401	2.54	Target=2.94		1074	
413.00 > 169.00	4.140	4.154	-0.014	1.000	3545726		2.86(1.47-4.41)		5788	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.131	4.154	-0.023	0.918	4078118	2.38	Target=4.40		1290	
449.00 > 99.00	4.131	4.154	-0.023	0.918	908596		4.49(2.20-6.60)		1239	
$ 26 13C8 PFOA										
421.00 > 376.00	4.140	4.154	-0.014	1.000	7350744	2.52		103	4465	
D 25 13C4 PFOA										
417.00 > 372.00	4.140	4.162	-0.022	1.000	9789906	2.26		90.5	5134	
* 23 13C2 PFOA										
415.00 > 370.00	4.140	4.162	-0.022		10812430	2.50			9478	
$ 28 13C8 PFOS										
507.00 > 99.00	4.494	4.523	-0.029	1.086	1110519	2.37		99.3	3175	
D 27 13C4 PFOS										
503.00 > 80.00	4.502	4.523	-0.021	1.088	3664048	2.44		102	1647	
29 Perfluorooctanesulfonic acid										
499.00 > 80.00	4.502	4.531	-0.029	1.000	3764469	2.37	Target=4.53		763	
499.00 > 99.00	4.502	4.531	-0.029	1.000	794252		4.74(2.26-6.79)		756	
D 30 13C5 PFNA										
468.00 > 423.00	4.510	4.540	-0.030	1.089	7526756	2.16		86.3	10750	
31 Perfluorononanoic acid										
463.00 > 419.00	4.518	4.548	-0.030	1.002	9627201	3.33	Target=8.97		1482	
463.00 > 169.00	4.518	4.548	-0.030	1.002	1066862		9.02(4.48-13.45)		1222	
32 9ClFOS										
531.00 > 351.00	4.702	4.730	-0.028	1.045	12579834	2.54			14132	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.820	4.828	-0.008	1.000	5518852	2.44			3846	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 33 13C8 FOSA										
506.00 > 78.00	4.820	4.828	-0.008	1.164	6086932	2.52		101	8593	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.855	4.880	-0.025	1.078	3332390	2.32	Target=2.85		1780	
549.00 > 99.00	4.855	4.880	-0.025	1.078	1167139		2.86(1.43-4.28)		1825	
D 39 13C2 PFDA										
515.00 > 470.00	4.872	4.897	-0.025	1.177	9524873	2.81		113	20968	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.880	4.907	-0.027	1.002	8711509	2.37	Target=10.16		2562	
513.00 > 169.00	4.880	4.907	-0.027	1.002	950044		9.17(5.08-15.24)		289	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.880	4.907	-0.027	1.179	2773294	2.27		94.8	1504	
36 8:2 FTS										
527.00 > 507.00	4.880	4.907	-0.027	1.000	5023116	2.44			6585	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.039	5.075	-0.036	1.217	5812322	2.56		102	4359	
41 NMeFOSAA										
570.00 > 419.00	5.048	5.075	-0.027	1.002	4006753	2.32			29628	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.175	5.202	-0.027	1.150	2861688	2.24	Target=2.77		2212	
599.00 > 99.00	5.175	5.202	-0.027	1.150	1029720		2.78(1.38-4.15)		1871	
D 43 13C2 PFUnA										
565.00 > 520.00	5.202	5.229	-0.027	1.257	8341373	2.49		99.4	5432	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.211	5.229	-0.018	1.002	6461307	2.67	Target=8.43		2579	
563.00 > 169.00	5.211	5.229	-0.018	1.002	719900		8.98(4.22-12.65)		369	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.202	5.238	-0.036	1.257	5997387	2.50		99.8	4672	
46 NEtFOSA										
584.00 > 419.00	5.211	5.248	-0.037	1.002	3984863	2.46			19621	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.259	5.279	-0.020	1.270	8248407	13.8		110	5135	
48 N-MeFOSE-M										
616.00 > 59.00	5.280	5.289	-0.009	1.004	1770356	2.49			2365	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.290	5.299	-0.009	1.278	2120375	2.49		99.8	47.3	
50 NMeFOSA										
512.00 > 169.00	5.300	5.299	0.001	1.002	1661720	2.04			534	
51 11ClFOS										
631.00 > 451.00	5.340	5.375	-0.035	1.186	15367392	2.44			25471	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.437	5.448	-0.011	1.313	7931566	10.8		86.3	2325	
53 N-EtFOSE-M										
630.00 > 59.00	5.448	5.459	-0.011	1.002	1687494	2.48			1646	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.469	5.469	0.0	1.321	2208252	2.54		102	194	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.469	5.480	-0.011	1.000	1790628	1.92			346	
D 56 13C2 PFDoA										
615.00 > 570.00	5.504	5.530	-0.026	1.330	10073696	3.04		122	13535	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.504	5.530	-0.026	1.000	8325750	2.02	Target=9.12		3543	
613.00 > 169.00	5.491	5.530	-0.039	0.998	968463		8.60(4.56-13.69)		1554	
58 10:2 FTS										
627.00 > 607.00	5.517	5.555	-0.038	1.130	5499389	2.36			8426	
59 PFDoS										
699.00 > 80.00	5.723	5.774	-0.051	1.271	1194979	2.34	Target=0.72		1271	
699.00 > 99.00	5.723	5.774	-0.051	1.271	1702168		0.70(0.36-1.07)		4690	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.774	5.812	-0.038	1.049	7320609	1.93	Target=6.78		3518	
663.00 > 169.00	5.774	5.812	-0.038	1.049	1050084		6.97(3.39-10.17)		717	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.012	6.053	-0.041	1.452	6199387	2.27		90.8	9309	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	6.012	6.063	-0.051	1.000	600820	2.87	Target=0.85		1809	
713.00 > 219.00	6.012	6.063	-0.051	1.000	635923		0.94(0.43-1.28)		317	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.481	6.530	-0.049	1.566	5049478	2.53		101	6411	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.473	6.530	-0.057	0.999	4526506	2.53	Target=10.21		2441	
813.00 > 169.00	6.473	6.530	-0.057	0.999	478101		9.47(5.11-15.32)		2280	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.954	7.047	-0.093	1.073	3440193	2.58	Target=12.45		2272	
913.00 > 169.00	6.954	7.047	-0.093	1.073	254124		13.54(6.22-18.67)		1831	

Reagents:

LCPFCIC_FULL_00044 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:44:06 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_019.d

Injection Date: 25-Aug-2020 17:56:13 Instrument ID: A18

Lims ID: ICV

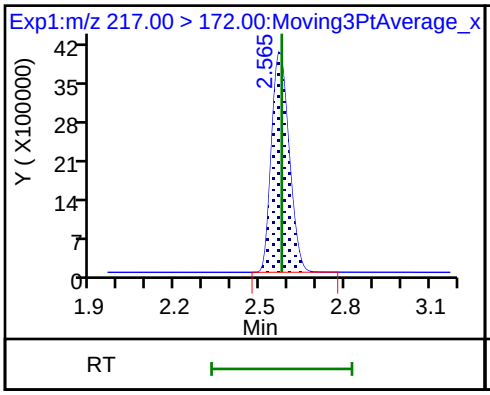
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 14 Worklist Smp#: 10

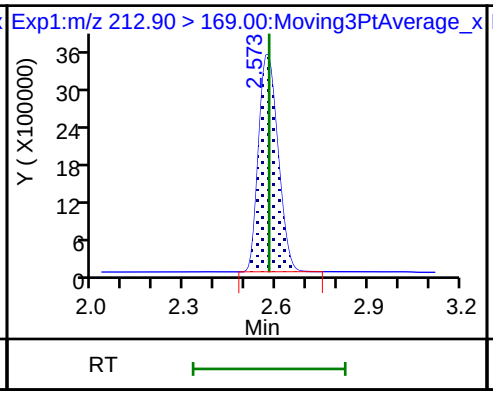
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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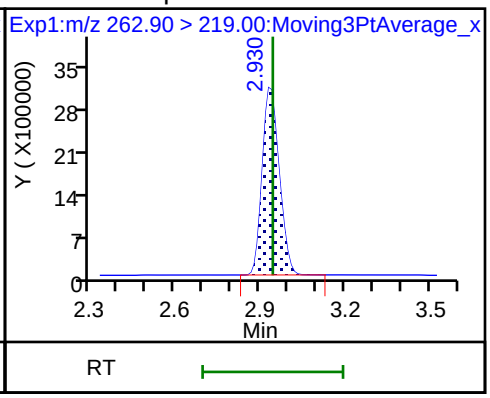

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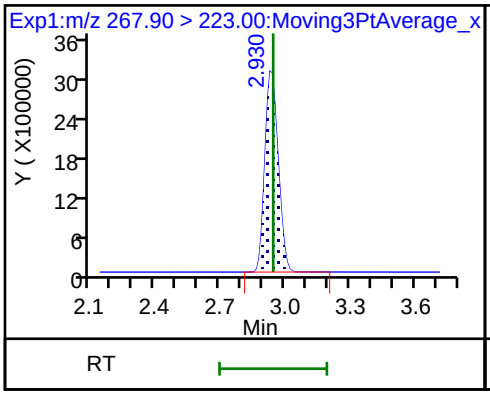
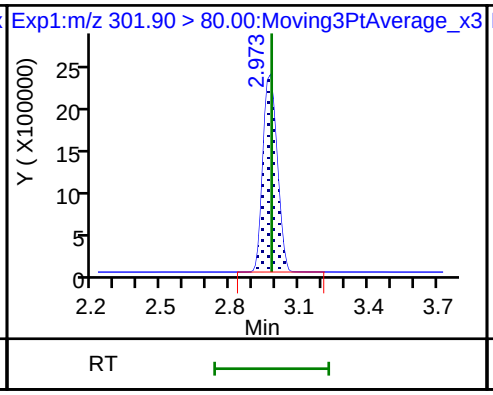
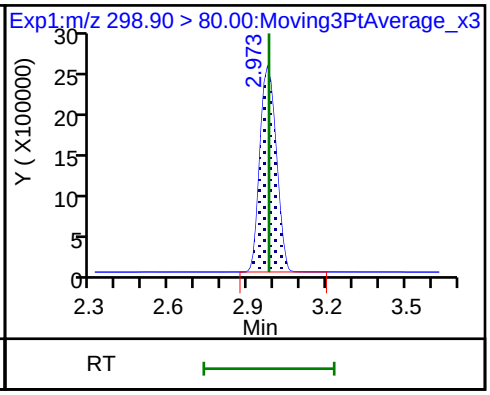


D 9 13C3 PFBS



6 Perfluorobutanesulfonic acid



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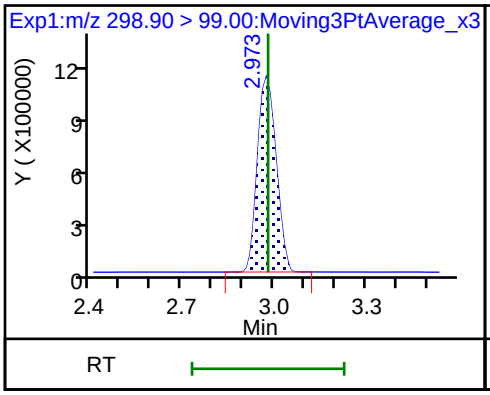
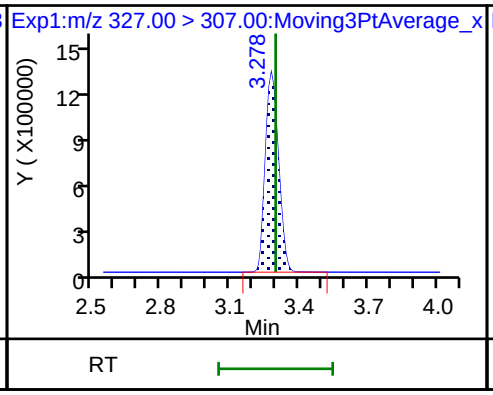
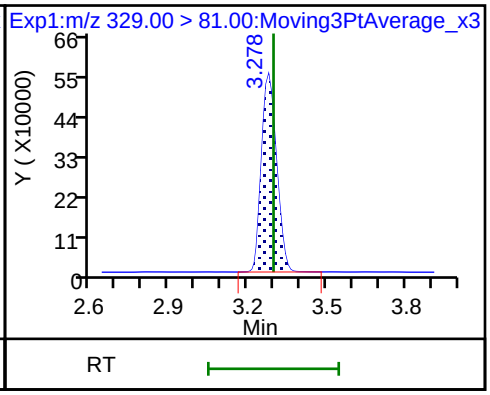


8 4:2 FTS



D 7 M2-4:2 FTS



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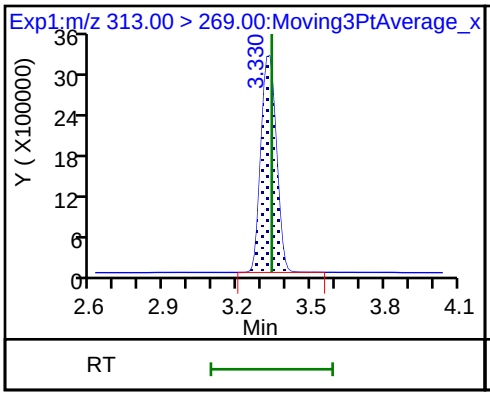

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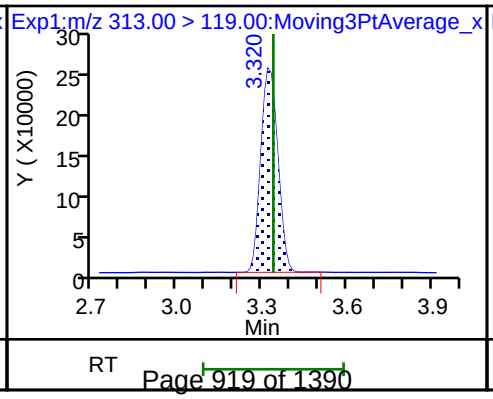
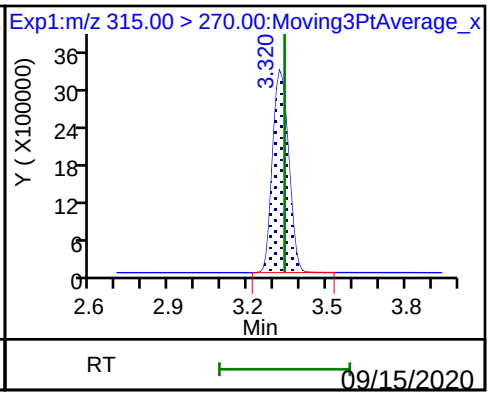
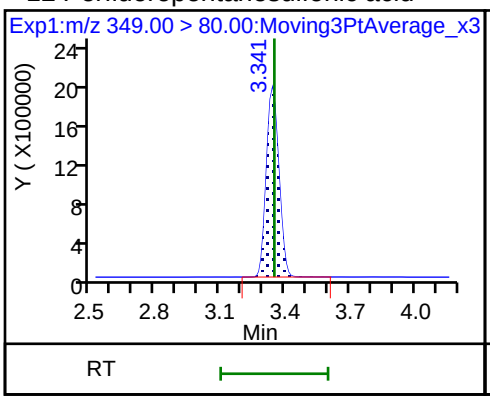


D 11 13C2 PFHxA



12 Perfluoropentanesulfonic acid



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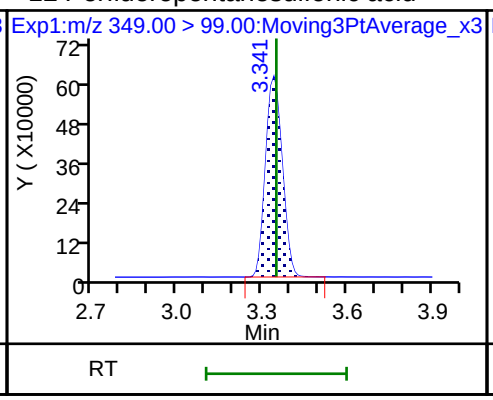
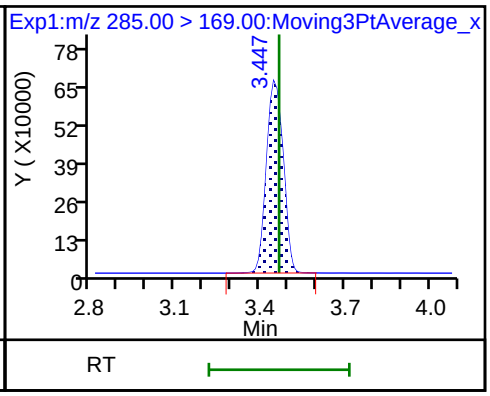


13 HPFO-DA



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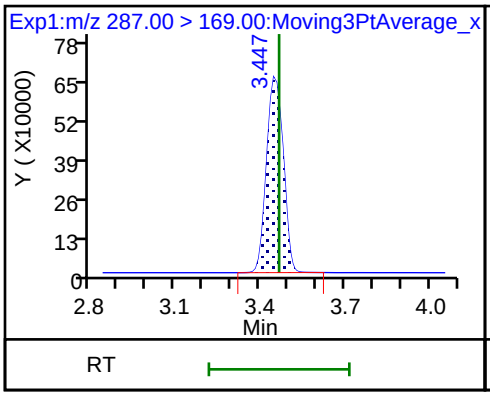
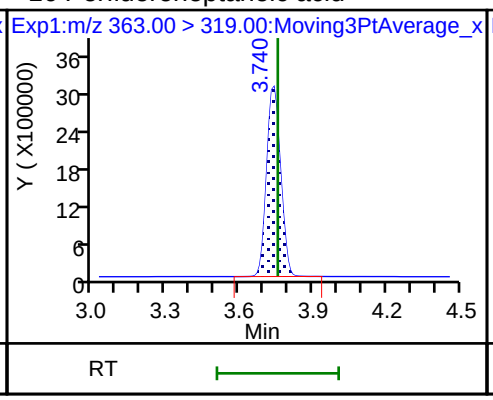


16 Perfluoroheptanoic acid



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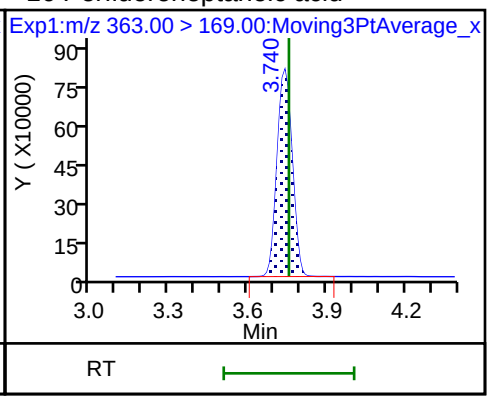

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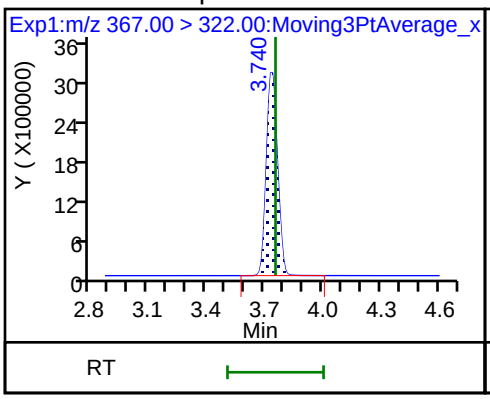

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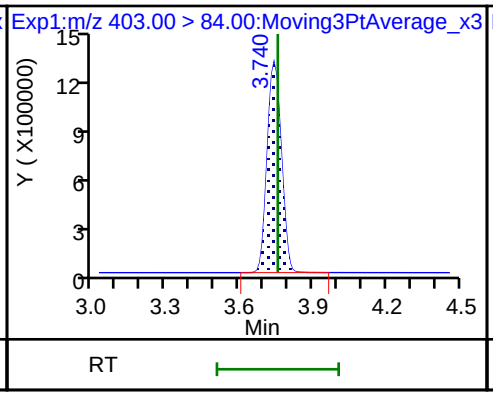

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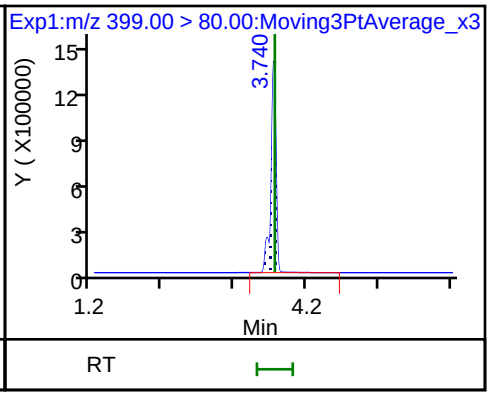

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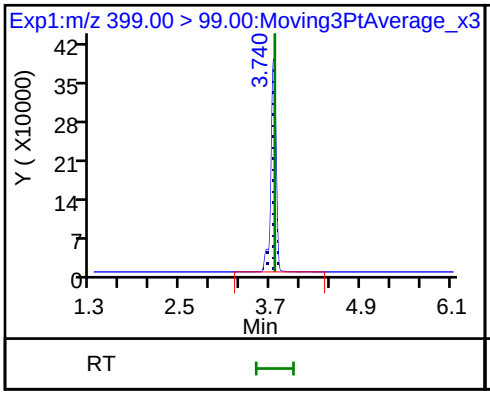

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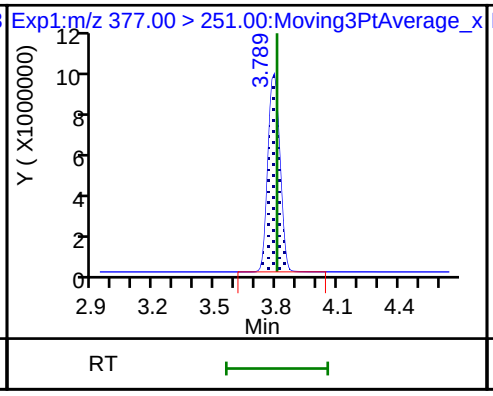

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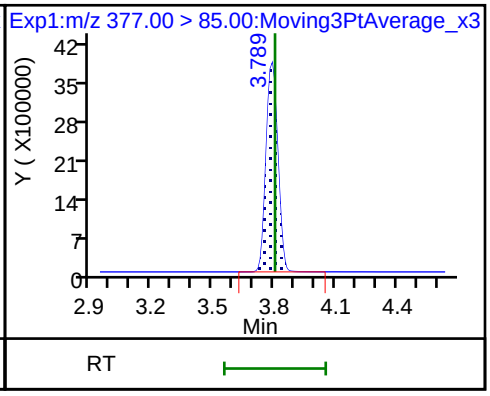

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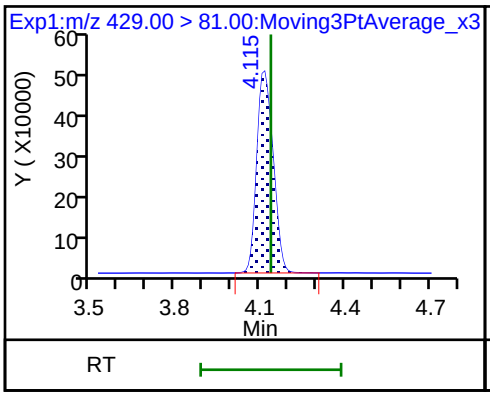

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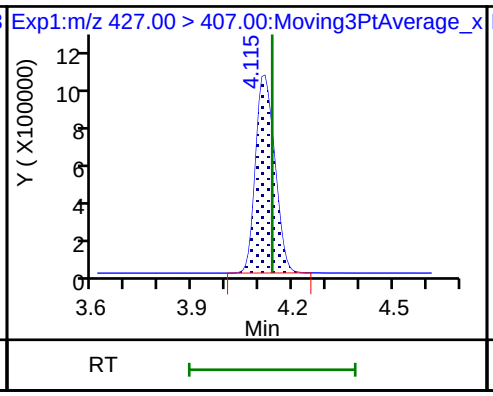
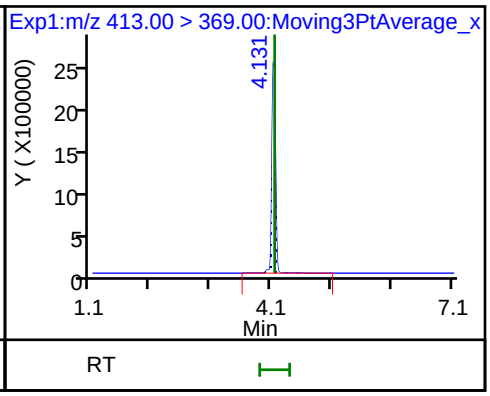


22 Perfluorooctanoic acid



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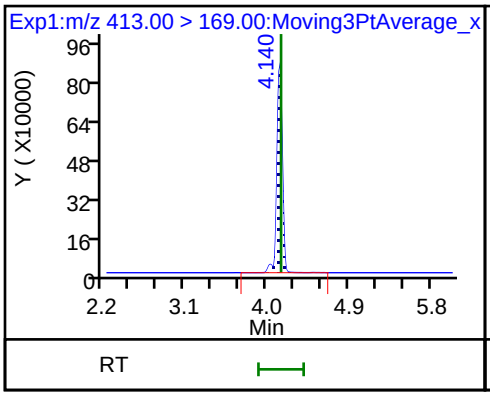
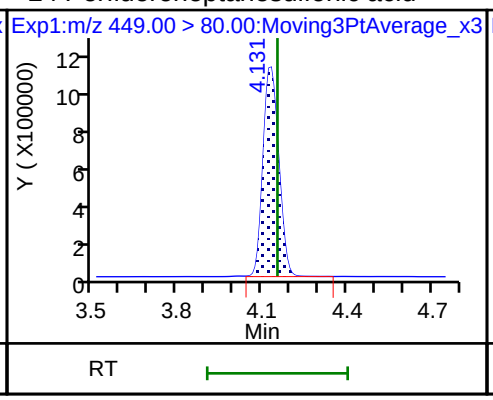


24 Perfluoroheptanesulfonic acid



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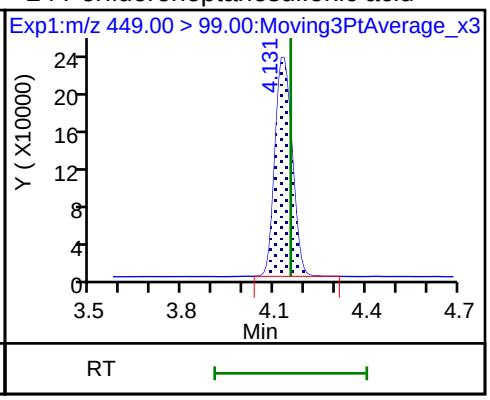

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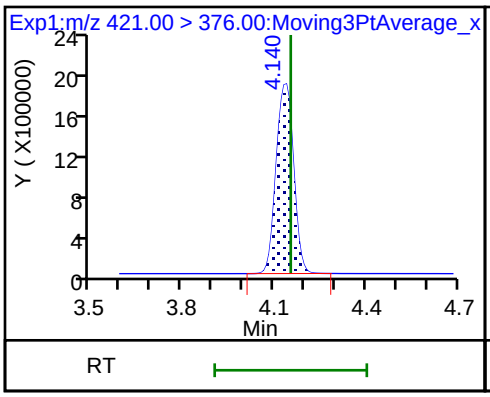

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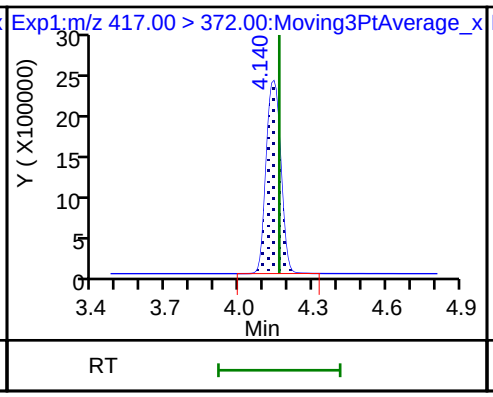
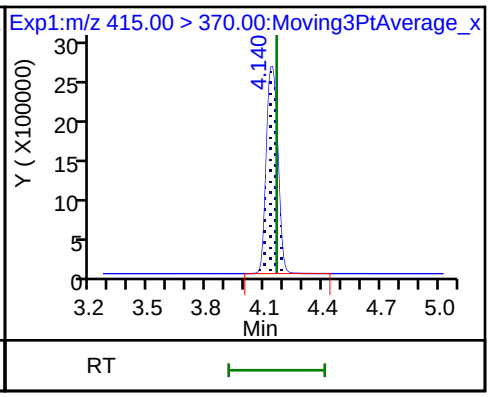


* 23 13C2 PFOA



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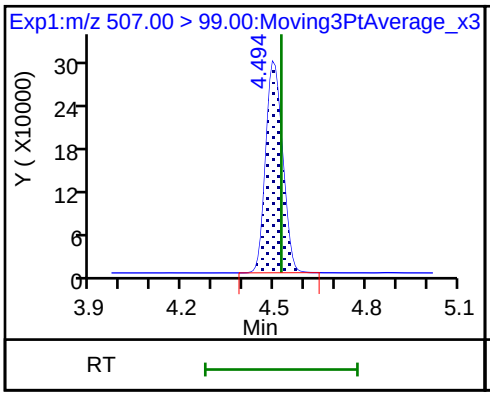

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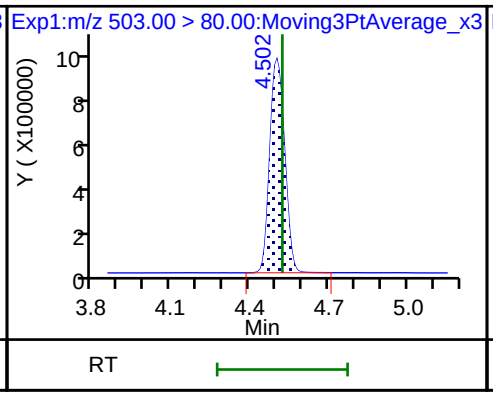

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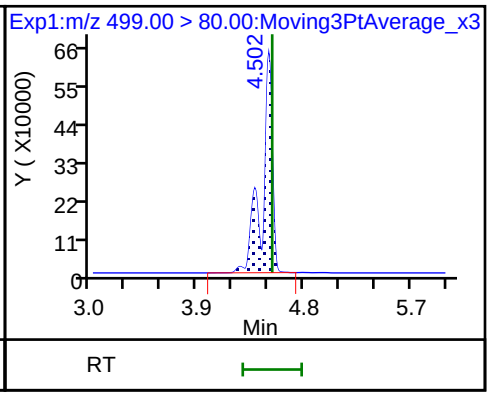

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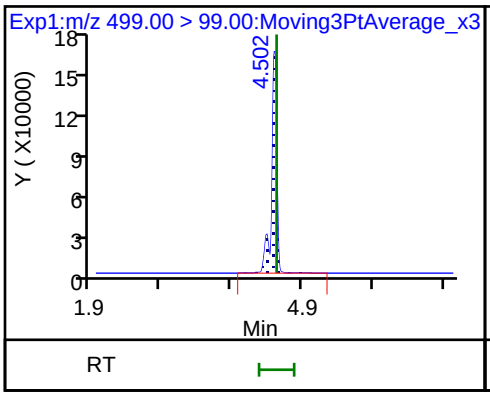

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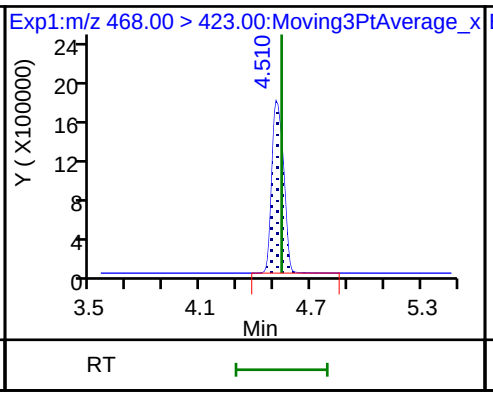

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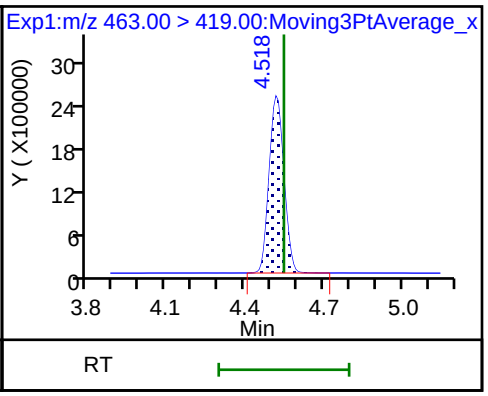

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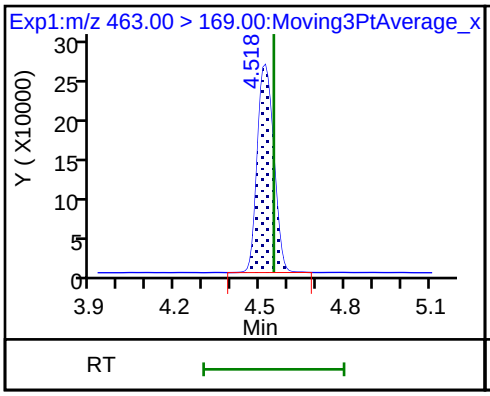
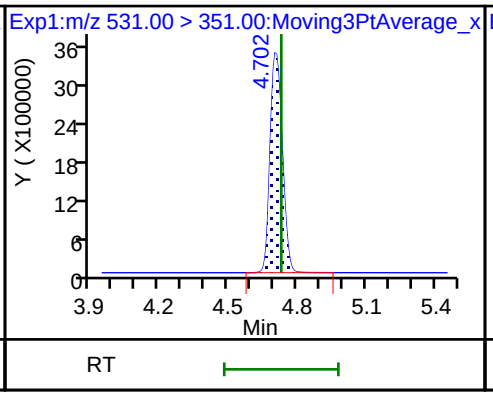


32 9ClFOS



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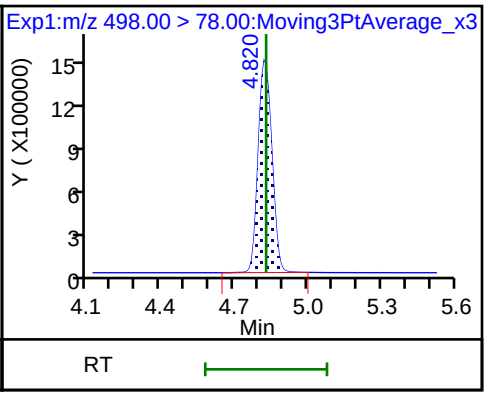
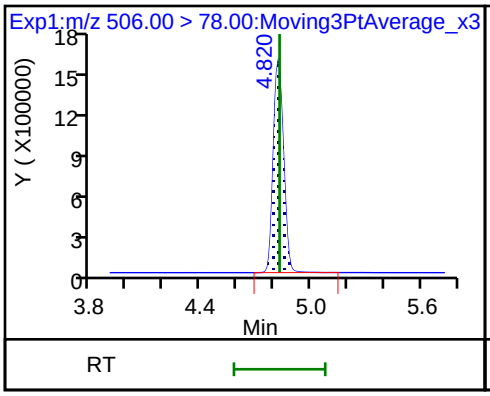


D 33 13C8 FOSA



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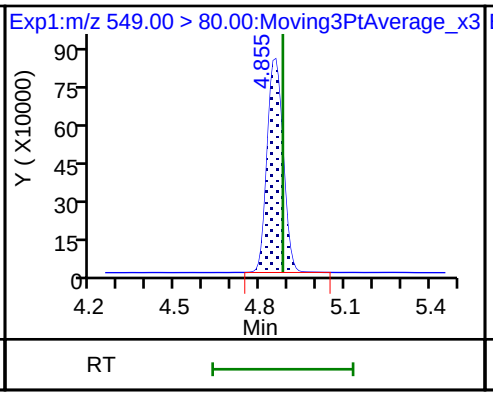

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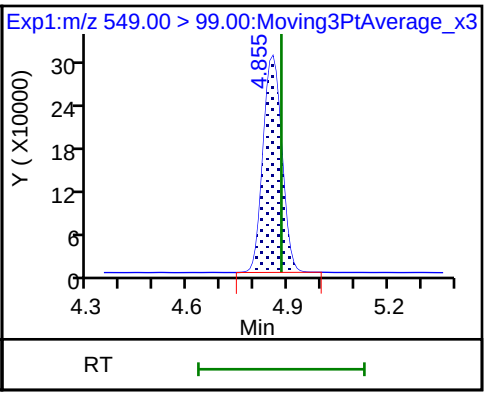

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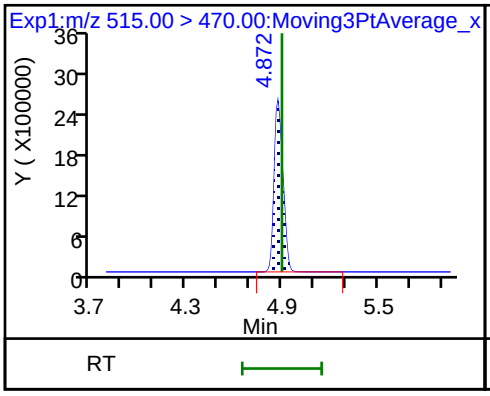
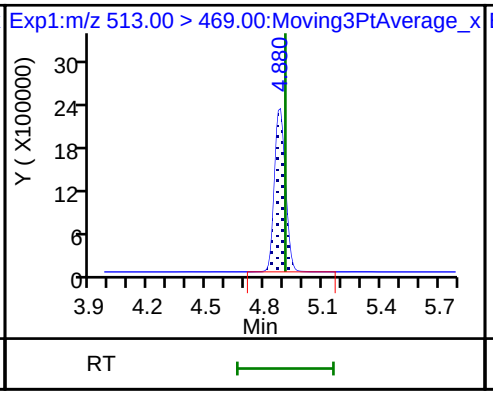


37 Perfluorodecanoic acid



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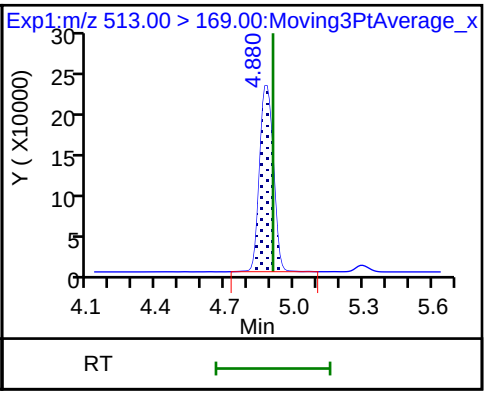
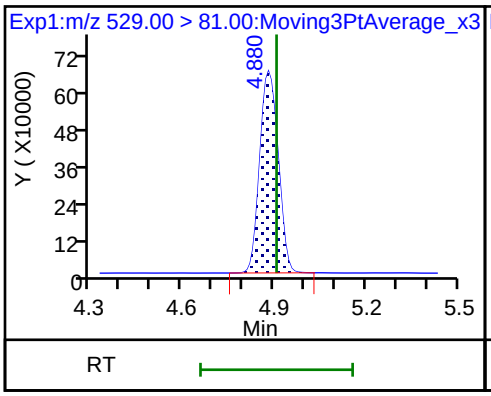
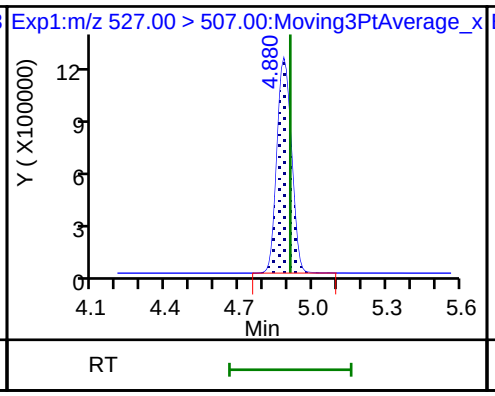


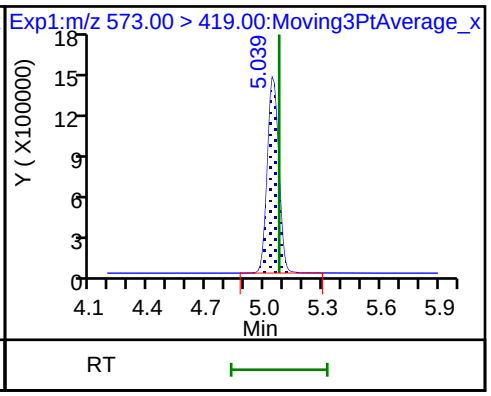
D 38 M2-8:2 FTS



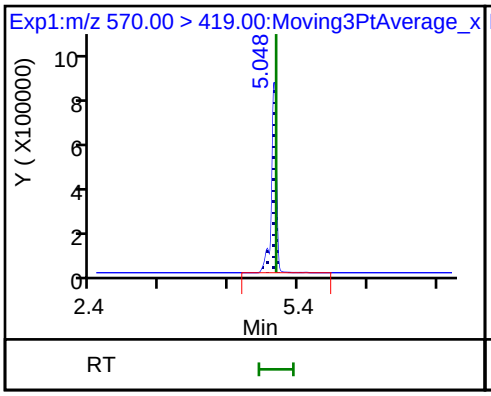
36 8:2 FTS



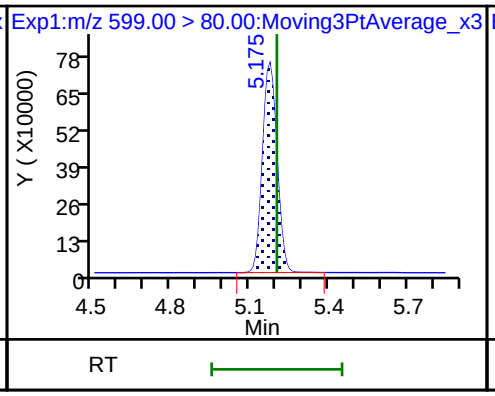
D 40 d3-NMeFOSAA



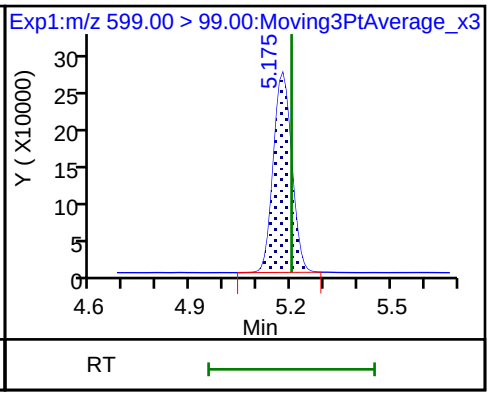
41 NMeFOSAA



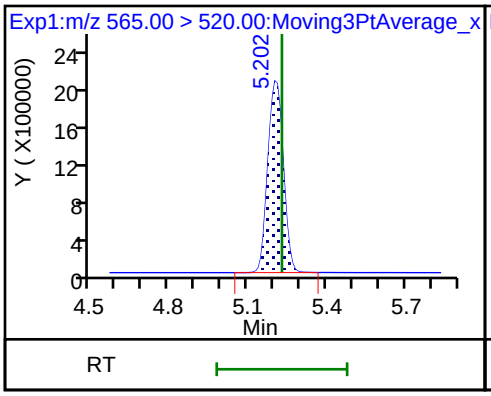
42 Perfluorodecanesulfonic acid



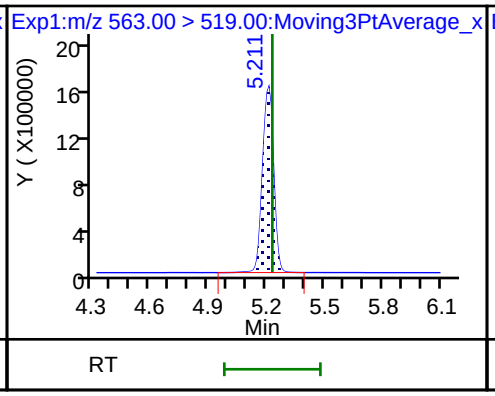
42 Perfluorodecanesulfonic acid



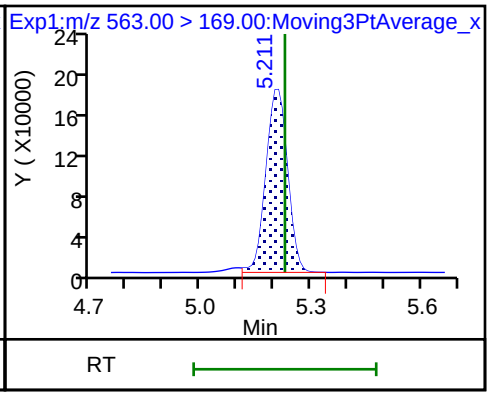
D 43 13C2 PFUnA



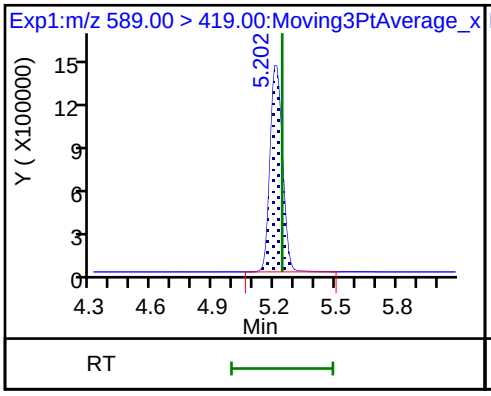
45 Perfluoroundecanoic acid



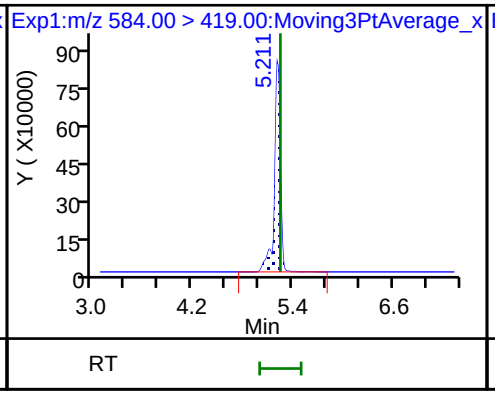
45 Perfluoroundecanoic acid



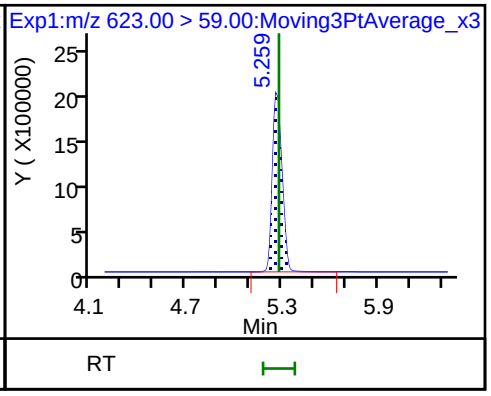
D 44 d5-NEtFOSAA



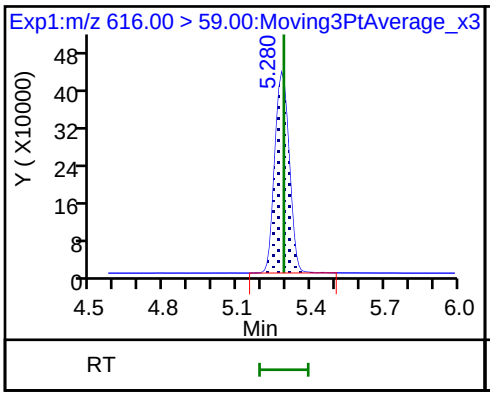
46 NEtFOSA



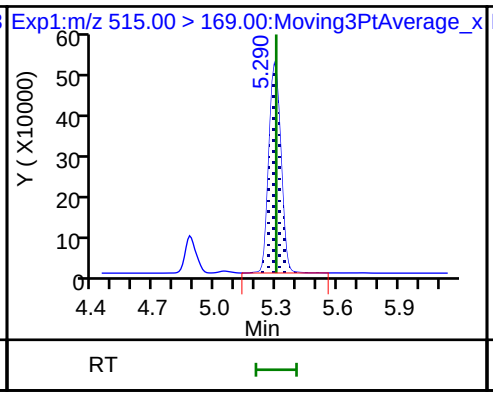
D 47 d7-N-MeFOSE-M



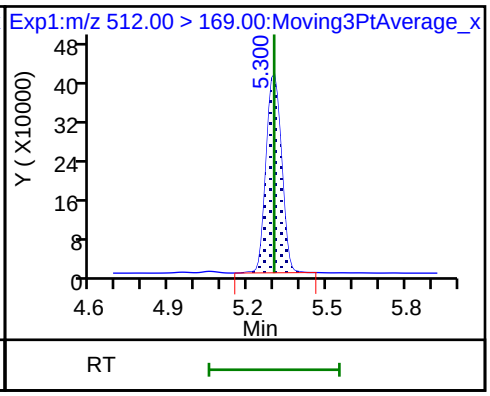
48 N-MeFOSE-M



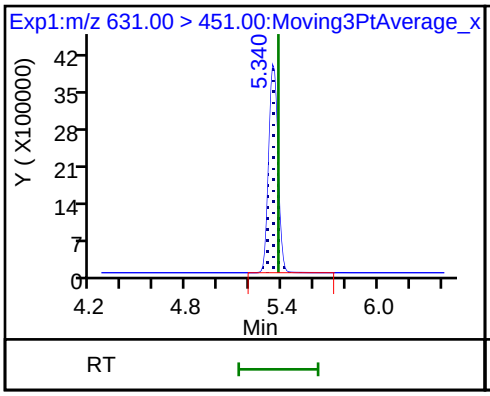
D 49 d-N-MeFOSA-M



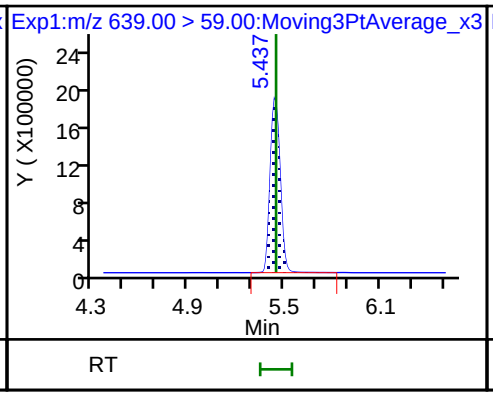
50 NMeFOSA



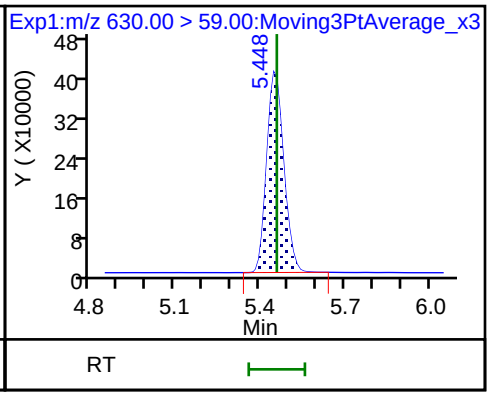
51 11ClFOS



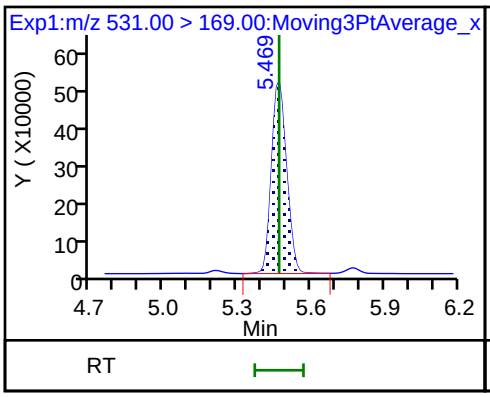
D 52 d9-N-EtFOSE-M



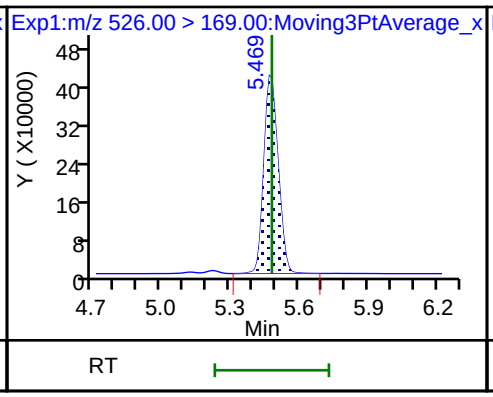
53 N-EtFOSE-M



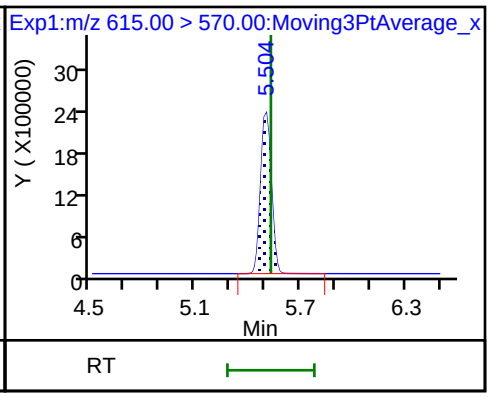
D 54 d-N-EtFOSA-M



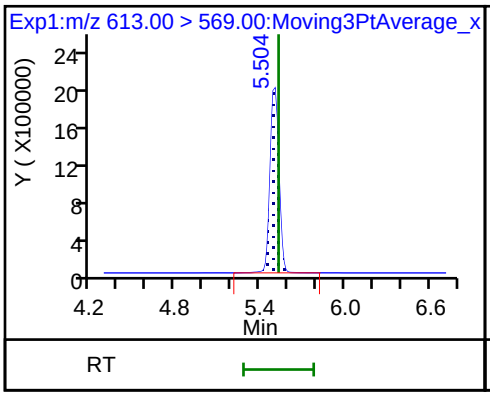
55 N-EtFOSA-M



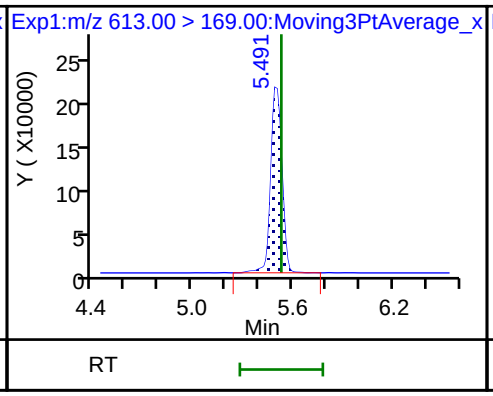
D 56 13C2 PFDoA



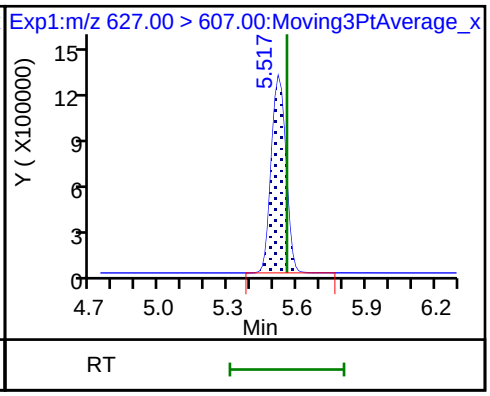
57 Perfluorododecanoic acid



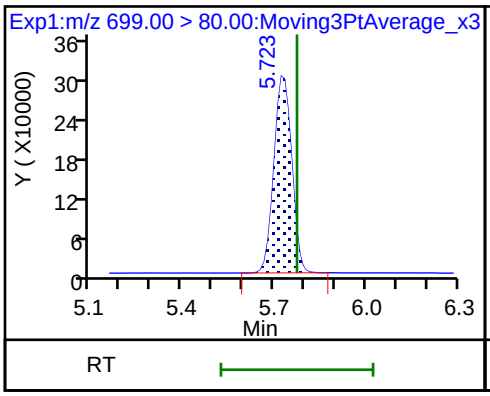
57 Perfluorododecanoic acid



58 10:2 FTS



59 PFDoS



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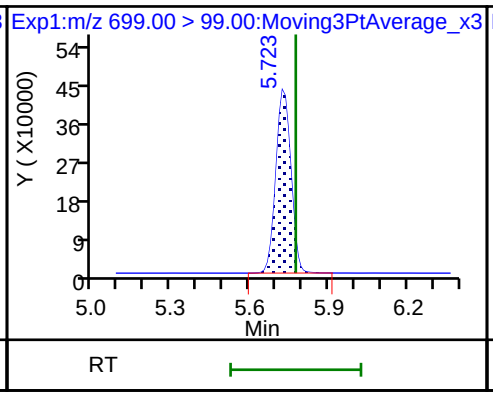
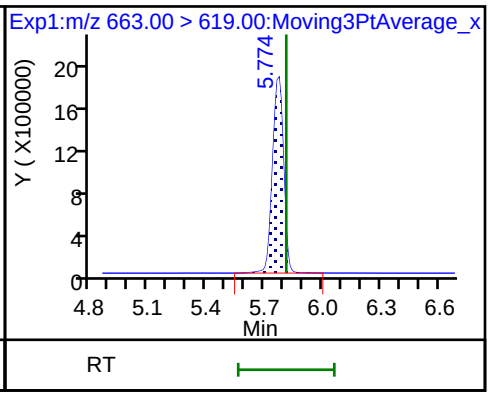
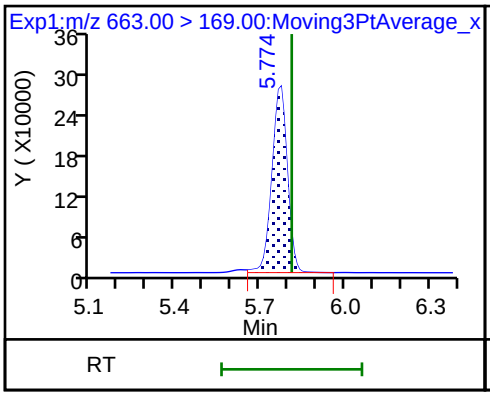


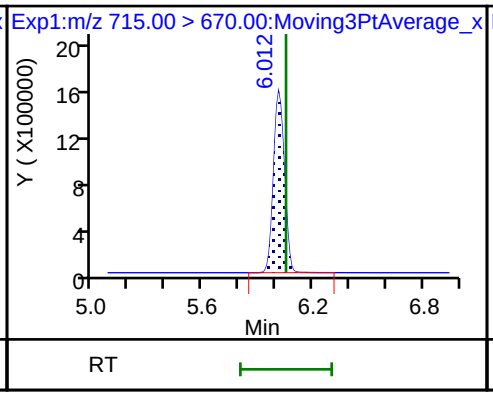
60 Perfluorotridecanoic acid



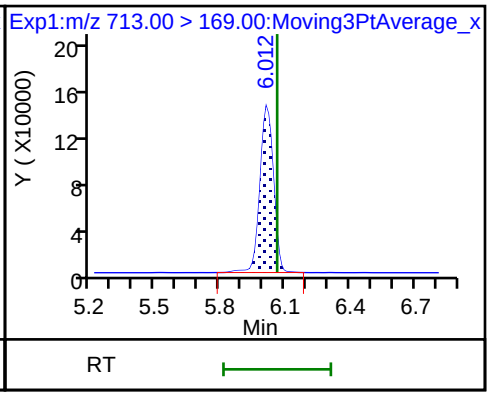
60 Perfluorotridecanoic acid



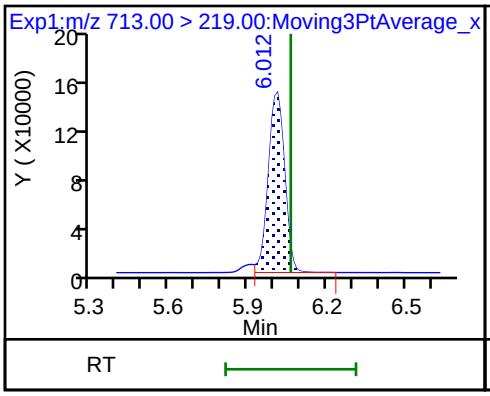
D 61 13C2 PFTeDA



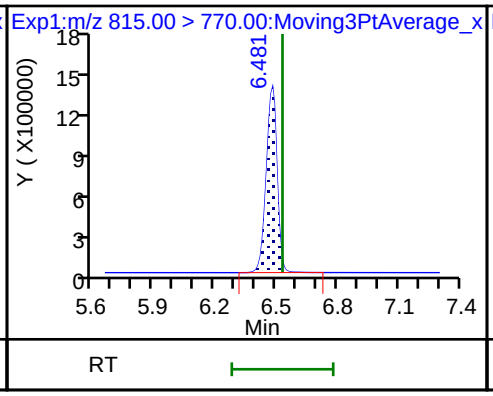
62 Perfluorotetradecanoic acid



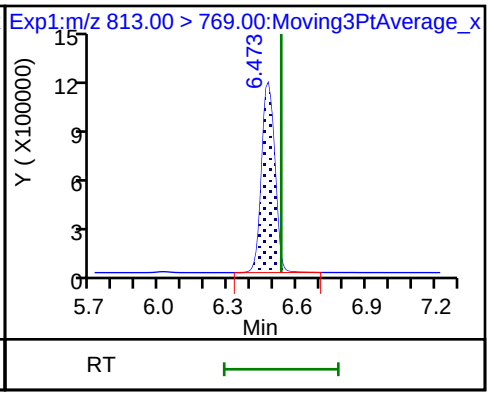
62 Perfluorotetradecanoic acid



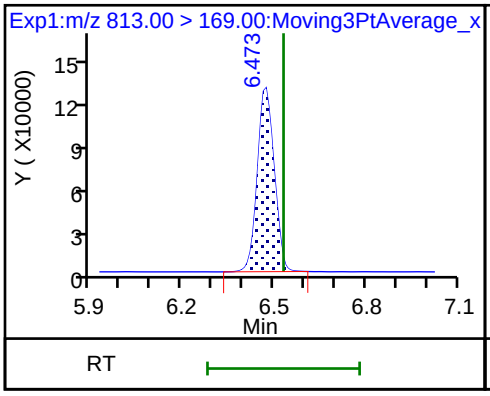
D 64 13C2 PFHxDA



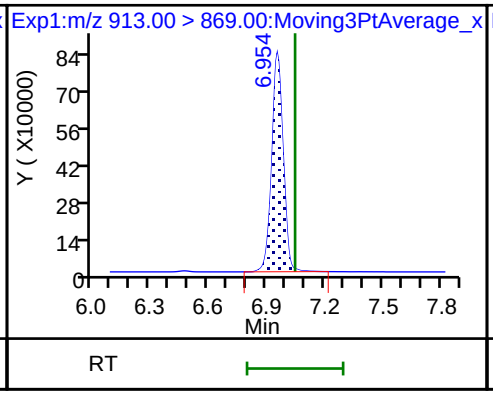
63 Perfluorohexadecanoic acid



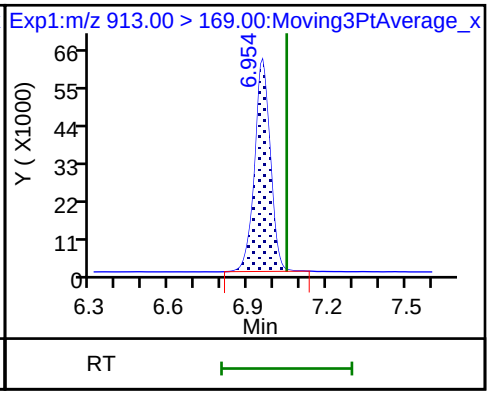
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVL 320-410948/2 Calibration Date: 09/10/2020 12:45

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_AAA_017.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.7817		0.0450	0.0500	-9.9	50.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.073		0.0538	0.0500	7.6	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	0.9302		0.0407	0.0442	-7.9	50.0
4:2 FTS	AveID	2.273	2.317		0.476	0.467	1.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	0.9359		0.0486	0.0500	-2.9	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.7304		0.0432	0.0469	-7.8	50.0
HFPO-DA (GenX)	AveID	0.9742	0.9127		0.0468	0.0500	-6.3	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	0.9412		0.0464	0.0500	-7.2	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.174		0.0452	0.0455	-0.6	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	8.243		0.0405	0.0471	-14.0	50.0
6:2 FTS	AveID	2.299	2.339		0.482	0.474	1.8	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.038		0.0442	0.0476	-7.1	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.059		0.0519	0.0500	3.8	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.043		0.0467	0.0464	0.7	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	0.9003		0.0469	0.0500	-6.1	50.0
F-53B Major	AveID	3.236	2.895		0.0417	0.0466	-10.5	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.8846		0.0475	0.0500	-4.9	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	0.8579		0.0440	0.0480	-8.4	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.8086		0.0419	0.0500	-16.1	50.0
8:2 FTS	AveID	1.775	1.605		0.433	0.479	-9.6	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.5816		0.392	0.500	-21.6	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.6975		0.0403	0.0482	-16.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.5947		0.0410	0.0500	-18.0	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.5986		0.443	0.500	-11.4	50.0
NMeFOSE	AveID	1.080	1.152		0.0534	0.0500	6.7	50.0
NMeFOSA	AveID	0.9606	0.8433		0.750	0.0500	-12.2	50.0
F-53B Minor	AveID	4.102	3.278		0.0376	0.0471	-20.1	50.0
NEtFOSE	AveID	1.073	0.997		0.0464	0.0500	-7.1	50.0
NEtFOSA	AveID	1.058	0.9735		1.00	0.0500	-8.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.8265		0.0404	0.0500	-19.2	50.0
10:2 FTS	AveID	2.014	1.975		0.0473	0.0482	-2.0	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.2958		0.0430	0.0484	-11.1	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVL 320-410948/2 Calibration Date: 09/10/2020 12:45

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_AAA_017.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	0.7272		0.0386	0.0500	-22.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.1062		0.0629	0.0500	25.8	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.163		0.0424	0.0500	-15.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.7099		0.0537	0.0500	7.5	50.0
13C4 PFBA	Ave	1.585	1.485		2.34	2.50	-6.3	50.0
13C5 PFPeA	Ave	1.233	1.226		2.49	2.50	-0.6	50.0
13C3 PFBS	Ave	0.9684	1.028		2.47	2.33	6.1	50.0
M2-4:2 FTS	Ave	0.2333	0.2308		2.31	2.34	-1.1	50.0
13C2 PFHxA	Ave	1.231	1.322		2.69	2.50	7.4	50.0
13C3 HFPO-DA	Ave	0.2518	0.2332		2.32	2.50	-7.4	50.0
13C4 PFHpA	Ave	1.051	1.083		2.58	2.50	3.0	50.0
18O2 PFHxS	Ave	0.5117	0.5625		2.60	2.37	9.9	50.0
M2-6:2 FTS	Ave	0.1958	0.2003		2.43	2.38	2.3	50.0
13C4 PFOA	Ave	1.001	1.064		2.66	2.50	6.3	50.0
13C4 PFOS	Ave	0.3465	0.3679		2.54	2.39	6.2	50.0
13C5 PFNA	Ave	0.8063	0.8576		2.66	2.50	6.4	50.0
13C8 FOSA	Ave	0.5590	0.5831		2.61	2.50	4.3	50.0
M2-8:2 FTS	Ave	0.2823	0.2861		2.43	2.40	1.3	50.0
13C2 PFDA	Ave	0.7829	0.9292		2.97	2.50	18.7	50.0
d3-NMeFOSAA	Ave	0.5255	0.5183		2.47	2.50	-1.4	50.0
13C2 PFUnA	Ave	0.7758	0.9248		2.98	2.50	19.2	50.0
d5-NEtFOSAA	Ave	0.5556	0.5968		2.69	2.50	7.4	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1573		14.2	12.5	13.7	50.0
d-N-MeFOSA-M	Ave	0.1965	0.2097		2.67	2.50	6.7	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1952		14.4	12.5	14.8	50.0
d-N-EtFOSA-M	Ave	0.2011	0.2128		2.65	2.50	5.8	50.0
13C2 PFDoA	Ave	0.7650	0.9564		3.13	2.50	25.0	50.0
13C2 PFTeDA	Ave	0.6311	0.6654		2.64	2.50	5.4	50.0
13C2 PFHxDA	Ave	0.4618	0.4815		2.61	2.50	4.3	50.0
13C8 PFOA	Ave	0.6756	0.7736		2.80	2.45	14.5	50.0
13C8 PFOS	Ave	0.1082	0.1073		2.37	2.39	-0.9	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 10-Sep-2020 12:45:05 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL (26)
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:21:23 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1002

First Level Reviewer: vangm Date: 10-Sep-2020 13:21:23
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.565	2.555	0.010	0.626	16810864	2.34		93.7	7657	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.565	2.555	0.010	1.000	262810	0.0450		90.1	19.1	
D 4 13C5 PFPeA										
267.90 > 223.00	2.919	2.907	0.012	0.712	13872585	2.48		99.4	5535	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.919	2.907	0.012	1.000	297729	0.0538		108	17.8	
D 9 13C3 PFBS										
301.90 > 80.00	2.950	2.938	0.012	0.720	10817121	2.47		106	4427	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.950	2.948	0.002	1.000	191296	0.0407	Target=2.30	92.1	43.3	
298.90 > 99.00	2.950	2.948	0.002	1.000	83615		2.29(1.15-3.45)		33.5	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.248	3.236	0.012	0.792	2439878	2.31		98.9	1068	
8 4:2 FTS										
327.00 > 307.00	3.248	3.236	0.012	1.000	1130480	0.4760		102	6397	
D 11 13C2 PFHxA										
315.00 > 270.00	3.298	3.286	0.012	0.805	14962770	2.69		107	6775	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.298	3.286	0.012	1.000	280074	0.0486	Target=13.78	97.1	28.8	
313.00 > 119.00	3.298	3.286	0.012	1.000	21190		13.22(6.89-20.66)		14.0	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.309	3.296	0.013	1.122	159379	0.0432	Target=3.02	92.2	36.6	
349.00 > 99.00	3.309	3.296	0.013	1.122	56308		2.83(1.51-4.52)		48.5	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.426	3.413	0.013	0.836	2639535	2.32		92.6	5398	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 HPFO-DA										
285.00 > 169.00	3.426	3.413	0.013	1.000	48184	0.0468		93.7	300	
D 18 13C4 PFHpA										
367.00 > 322.00	3.701	3.696	0.005	0.903	12251897	2.58		103	6095	
D 17 18O2 PFHxS										
403.00 > 84.00	3.711	3.696	0.015	0.905	6023069	2.60		110	5990	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.701	3.696	0.005	1.000	230628	0.0464	Target=3.84	92.8	33.3	
363.00 > 169.00	3.711	3.696	0.015	1.003	58225		3.96(1.92-5.76)		49.1	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.711	3.696	0.015	1.000	136082	0.0452	Target=3.50	99.4	43.5	M
399.00 > 99.00	3.711	3.696	0.015	1.000	37981		3.58(1.75-5.25)		35.5	M
19 DONA										
377.00 > 251.00	3.750	3.746	0.004	0.840	646748	0.0405	Target=2.42	86.0	978	
377.00 > 85.00	3.750	3.746	0.004	0.840	279962		2.31(1.21-3.63)		539	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.074	4.072	0.002	0.994	2153133	2.43		102	1503	
21 6:2 FTS										
427.00 > 407.00	4.082	4.072	0.010	1.002	1005285	0.4824		102	1445	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.099	4.080	0.019	0.919	82314	0.0442	Target=4.40	92.9	40.9	
449.00 > 99.00	4.091	4.080	0.011	0.917	19232		4.28(2.20-6.60)		29.7	
$ 26 13C8 PFOA										
421.00 > 376.00	4.099	4.080	0.019	1.000	8571400	2.80		114	6856	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.099	4.096	0.003	0.998	254970	0.0519	Target=2.94	104	40.6	M
413.00 > 169.00	4.107	4.096	0.011	1.000	89878		2.84(1.47-4.41)		77.9	
D 25 13C4 PFOA										
417.00 > 372.00	4.107	4.096	0.011	1.002	12039662	2.66		106	4514	
* 23 13C2 PFOA										
415.00 > 370.00	4.099	4.096	0.003		11318081	2.50			5963	
$ 28 13C8 PFOS										
507.00 > 99.00	4.462	4.451	0.011	1.089	1160691	2.37		99.1	2575	
D 27 13C4 PFOS										
503.00 > 80.00	4.462	4.451	0.011	1.089	3981120	2.54		106	1624	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.470	4.459	0.011	1.002	80586	0.0467	Target=4.53	101	31.0	M
499.00 > 99.00	4.462	4.459	0.003	1.000	18255		4.41(2.26-6.79)		34.7	M
D 30 13C5 PFNA										
468.00 > 423.00	4.478	4.467	0.011	1.093	9706225	2.66		106	8126	
31 Perfluorononanoic acid										
463.00 > 419.00	4.486	4.467	0.019	1.002	174779	0.0469	Target=8.97	93.9	42.0	
463.00 > 169.00	4.478	4.467	0.011	1.000	19665		8.89(4.48-13.45)		37.1	
32 9ClFOS										
531.00 > 351.00	4.670	4.657	0.013	1.046	224701	0.0417		89.5	659	
D 33 13C8 FOSA										
506.00 > 78.00	4.795	4.791	0.003	1.170	6599934	2.61		104	7087	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.795	4.791	0.003	1.000	116764	0.0475		95.1	525	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.812	4.800	0.012	1.078	68596	0.0440	Target=2.85	91.6	55.2	
549.00 > 99.00	4.812	4.800	0.012	1.078	25329		2.71(1.43-4.28)		56.7	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.837	4.826	0.011	0.998	170075	0.0419	Target=10.16	83.9	75.2	
513.00 > 169.00	4.837	4.826	0.011	0.998	17623		9.65(5.08-15.24)		28.0	
D 39 13C2 PFDA										
515.00 > 470.00	4.846	4.826	0.020	1.182	10517037	2.97		119	5745	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.837	4.834	0.003	1.180	3101583	2.43		101	1950	
36 8:2 FTS										
527.00 > 507.00	4.846	4.834	0.012	1.002	995458	0.4331		90.4	4391	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.011	4.997	0.014	1.223	5866181	2.47		98.6	3850	
41 NMeFOSAA										
570.00 > 419.00	5.011	4.997	0.014	1.000	682312	0.3921		78.4	3815	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.130	5.128	0.002	1.150	55998	0.0403	Target=2.77	83.5	63.2	
599.00 > 99.00	5.130	5.128	0.002	1.150	22504		2.49(1.38-4.15)		133	
D 43 13C2 PFUnA										
565.00 > 520.00	5.166	5.155	0.011	1.260	10466903	2.98		119	9509	
45 Perfluoroundecanoic acid										M
563.00 > 519.00	5.166	5.155	0.011	1.000	124501	0.0410	Target=8.43	82.0	83.8	
563.00 > 169.00	5.166	5.155	0.011	1.000	14232		8.75(4.22-12.65)		30.1	M
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.166	5.164	0.002	1.260	6754601	2.69		107	4592	
46 NEtFOSA										
584.00 > 419.00	5.175	5.173	0.002	1.002	808633	0.4429		88.6	7181	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.259	5.256	0.003	1.283	8903504	14.2		114	6574	
48 N-MeFOSE-M										
616.00 > 59.00	5.269	5.267	0.003	1.002	41036	0.0534		107	83.1	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.269	5.267	0.003	1.286	2373423	2.67		107	46.8	
50 NMeFOSA										
512.00 > 169.00	5.280	5.277	0.003	1.002	40030	0.0439		87.8	65.5	
51 11ClFOS										
631.00 > 451.00	5.300	5.297	0.003	1.188	257206	0.0376		79.9	1250	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.426	5.424	0.002	1.324	11044673	14.4		115	5620	
53 N-EtFOSE-M										
630.00 > 59.00	5.437	5.435	0.002	1.002	44027	0.0464		92.9	105	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.448	5.446	0.002	1.329	2408242	2.65		106	436	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.459	5.446	0.013	1.000	178919	0.0404	Target=9.12	80.8	84.1	
613.00 > 169.00	5.459	5.446	0.013	1.000	18666		9.59(4.56-13.69)		38.3	
55 N-EtFOSA-M										
526.00 > 169.00	5.459	5.457	0.002	1.002	46887	0.0460		92.0	31.1	
D 56 13C2 PFDoA										
615.00 > 570.00	5.459	5.457	0.002	1.332	10824348	3.13		125	8544	
58 10:2 FTS										
627.00 > 607.00	5.469	5.467	0.002	1.131	123254	0.0473		98.0	662	
59 PFDoS										
699.00 > 80.00	5.690	5.677	0.013	1.275	23849	0.0430	Target=0.72	88.9	29.5	
699.00 > 99.00	5.690	5.677	0.013	1.275	32254		0.74(0.36-1.07)		116	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.723	5.711	0.012	1.048	157425	0.0386	Target=6.78	77.3	120	
663.00 > 169.00	5.723	5.711	0.012	1.048	22789		6.91(3.39-10.17)		54.2	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.971	5.959	0.012	1.000	15991	0.0629	Target=0.85	126	104	
713.00 > 219.00	5.959	5.959	0.0	0.998	15185		1.05(0.43-1.28)		131	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.971	5.970	0.001	1.457	7531527	2.64		105	9273	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.421	6.403	0.018	1.566	5450085	2.61		104	6625	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.412	6.412	0.0	0.999	126809	0.0424	Target=10.21	84.9	108	
813.00 > 169.00	6.421	6.412	0.009	1.000	15950		7.95(5.11-15.32)		128	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.868	6.861	0.007	1.070	77377	0.0537	Target=12.45	107	90.5	
913.00 > 169.00	6.868	6.861	0.007	1.070	6360		12.17(6.22-18.67)		109	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LLCCVL_00026 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:21:25 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d

Injection Date: 10-Sep-2020 12:45:05 Instrument ID: A18

Lims ID: CCVL

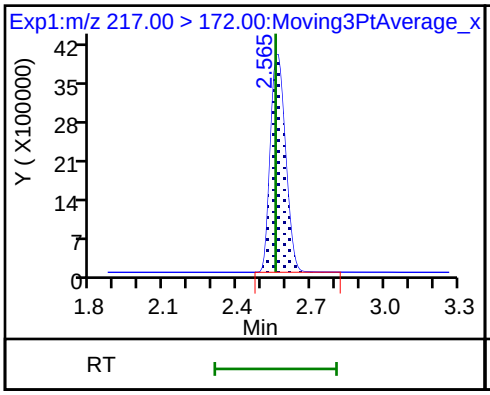
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2

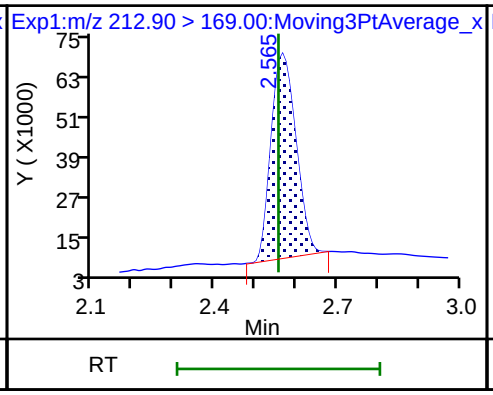
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

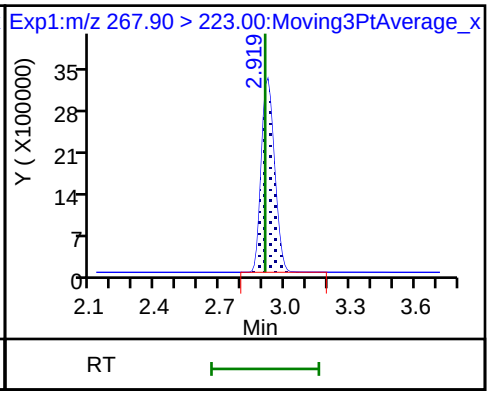
D 1 13C4 PFBA



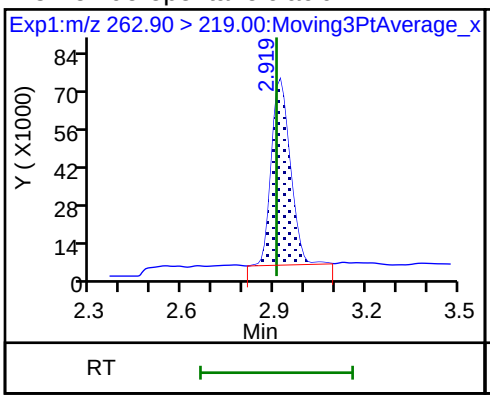
2 Perfluorobutanoic acid



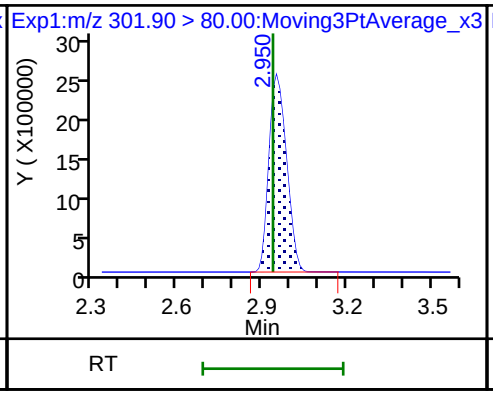
D 4 13C5 PFPeA



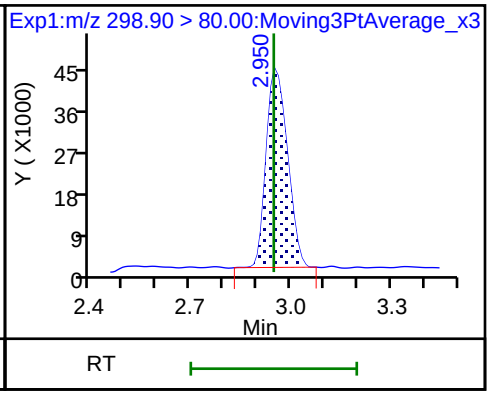
5 Perfluoropentanoic acid



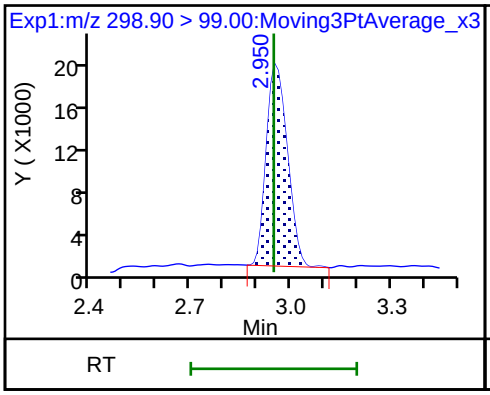
D 9 13C3 PFBS



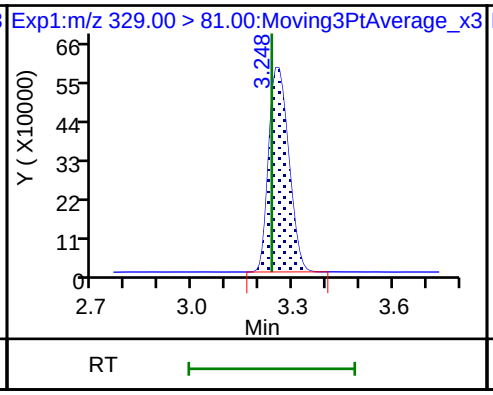
6 Perfluorobutanesulfonic acid



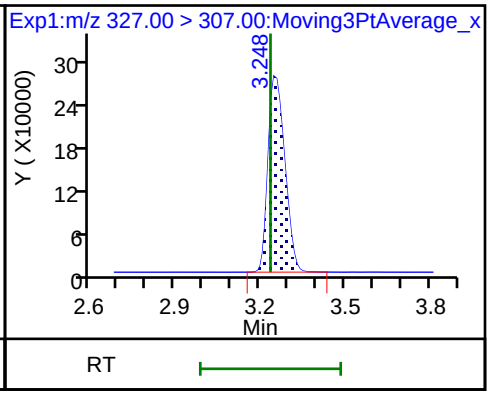
6 Perfluorobutanesulfonic acid



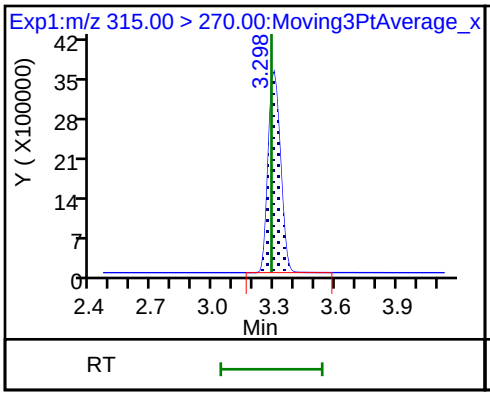
D 7 M2-4:2 FTS



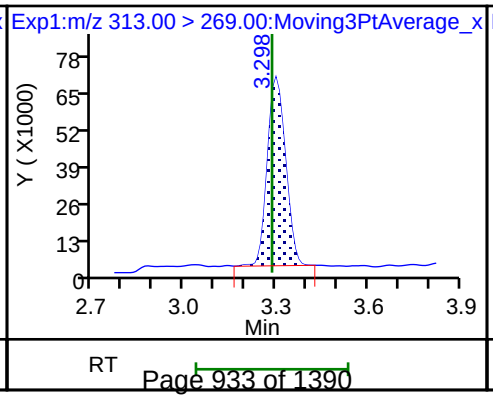
8 4:2 FTS



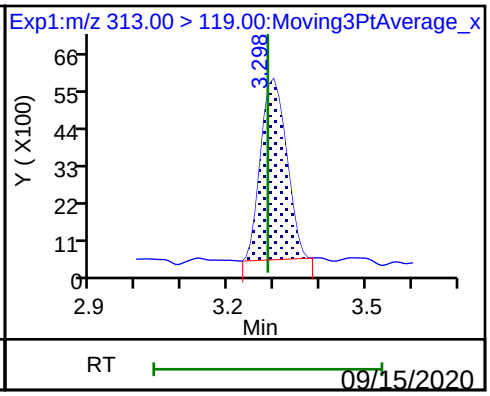
D 11 13C2 PFHxA



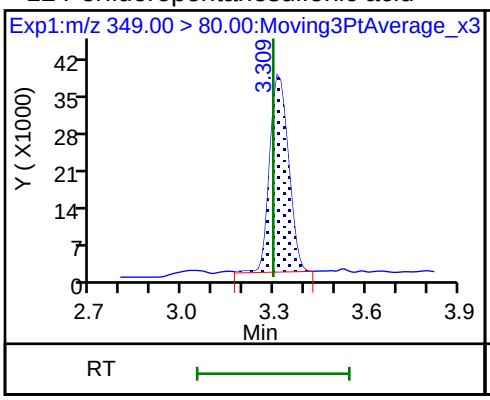
10 Perfluorohexanoic acid



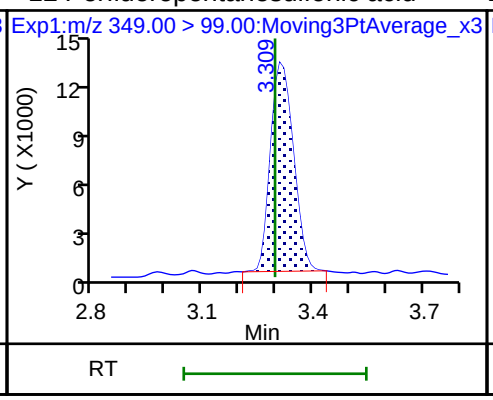
10 Perfluorohexanoic acid



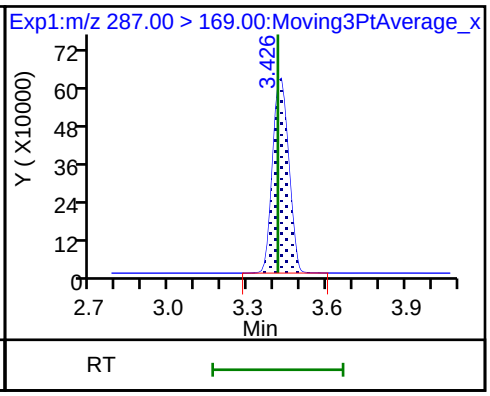
12 Perfluoropentanesulfonic acid



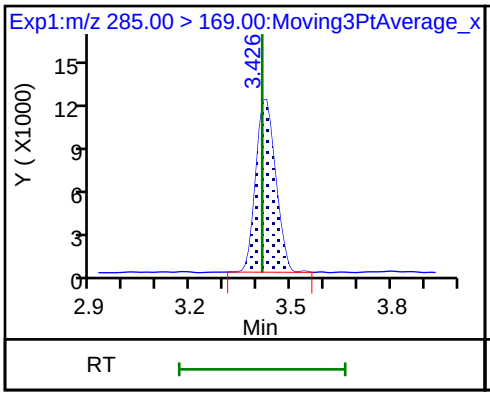
12 Perfluoropentanesulfonic acid



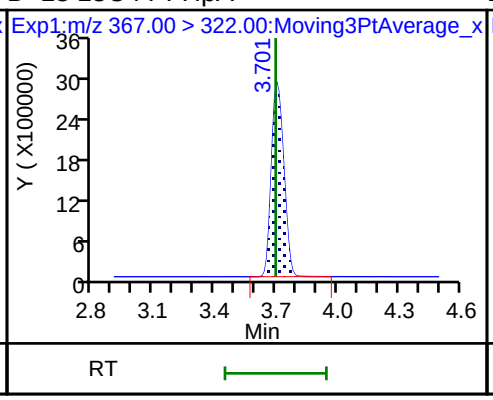
D 14 13C3 HFPO-DA



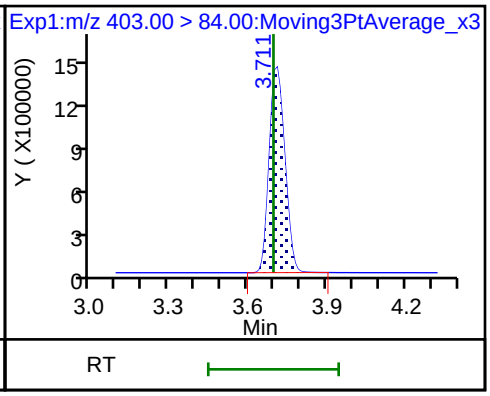
13 HPFO-DA



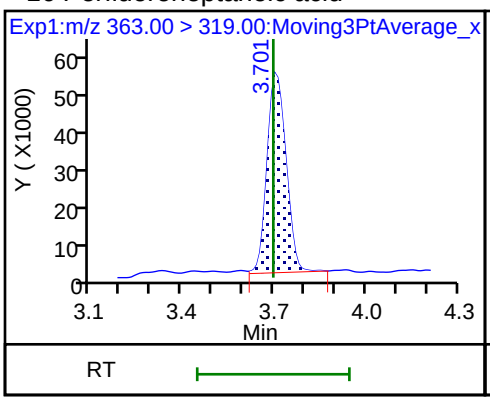
D 18 13C4 PFHpA



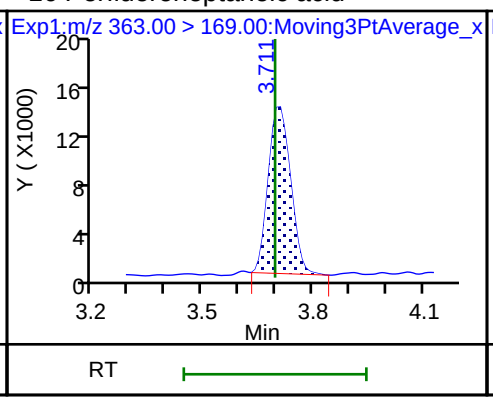
D 17 18O2 PFHxS



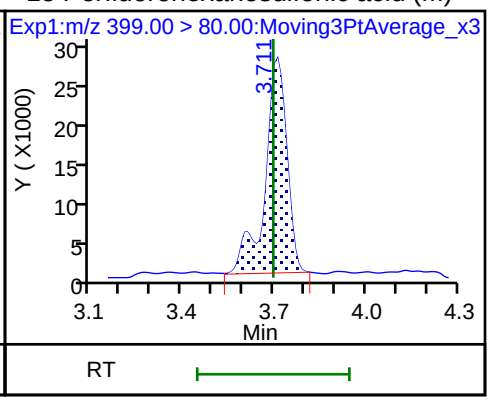
16 Perfluoroheptanoic acid



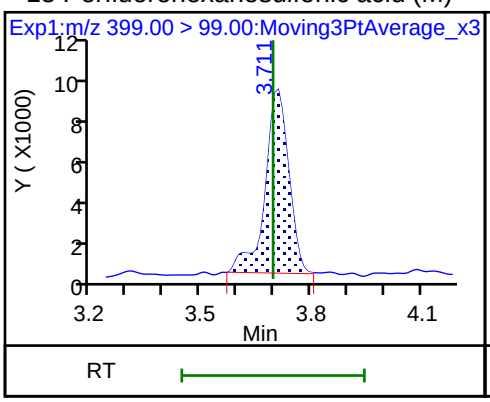
16 Perfluoroheptanoic acid



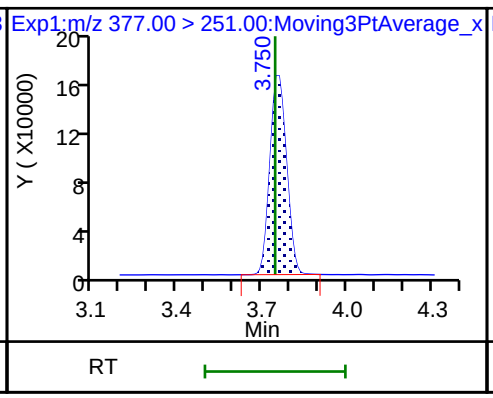
15 Perfluorohexanesulfonic acid (M)



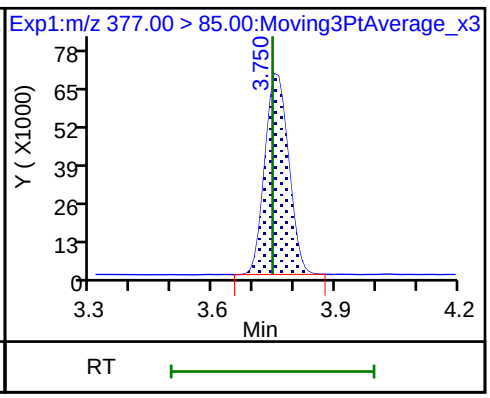
15 Perfluorohexanesulfonic acid (M)



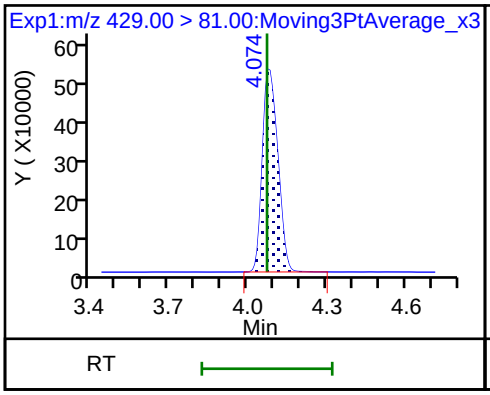
19 DONA



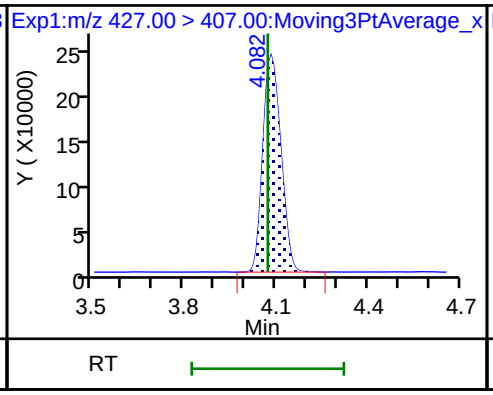
19 DONA



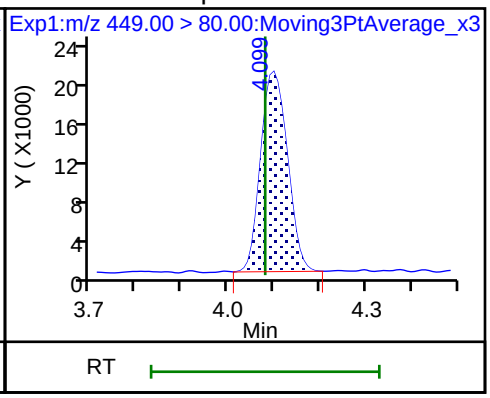
D 20 M2-6:2 FTS



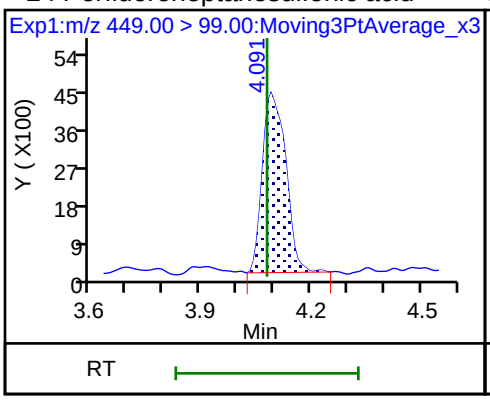
21 6:2 FTS



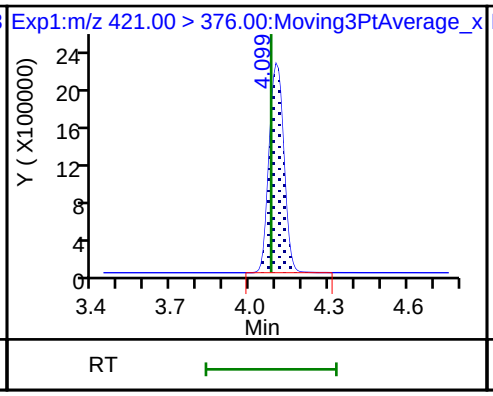
24 Perfluoroheptanesulfonic acid



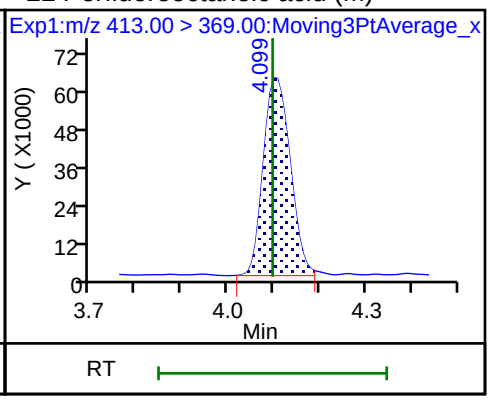
24 Perfluoroheptanesulfonic acid



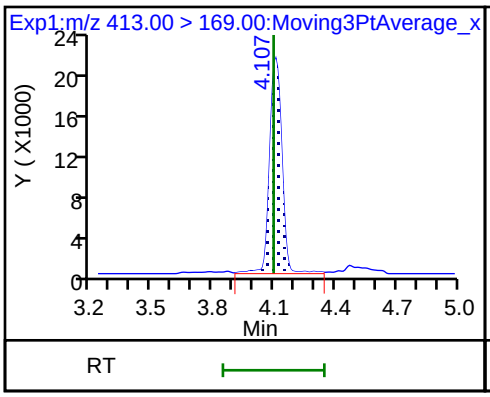
$ 26 13C8 PFOA



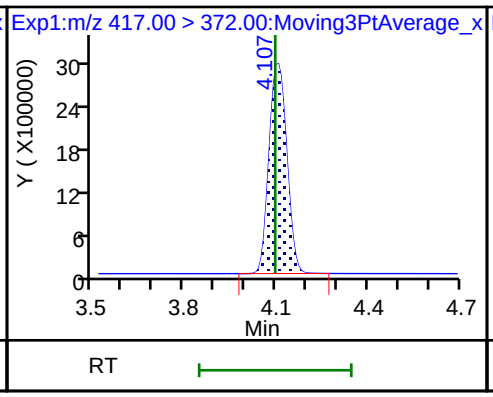
22 Perfluorooctanoic acid (M)



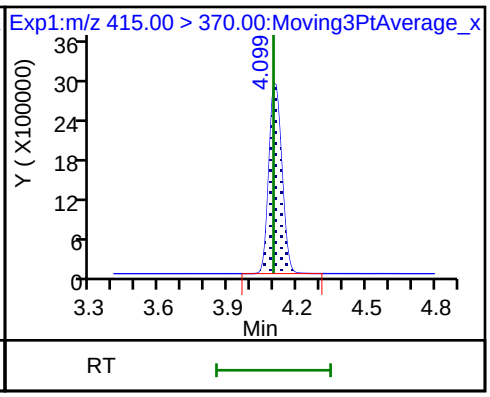
22 Perfluorooctanoic acid



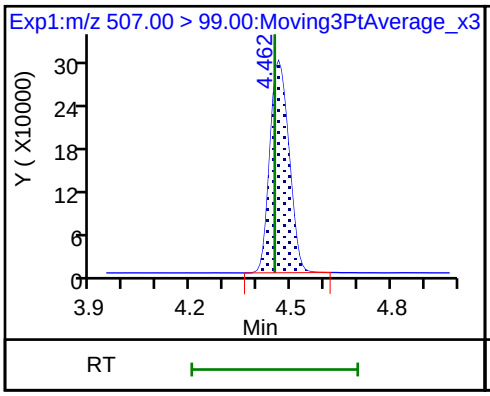
D 25 13C4 PFOA



* 23 13C2 PFOA



$ 28 13C8 PFOS



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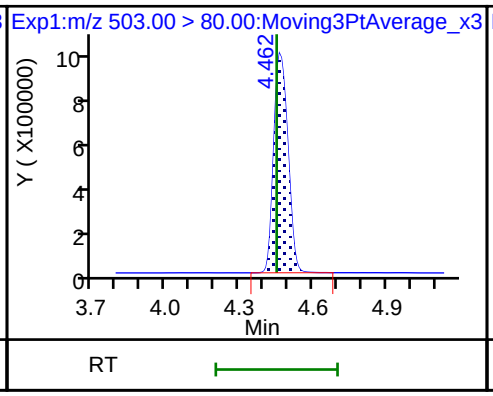
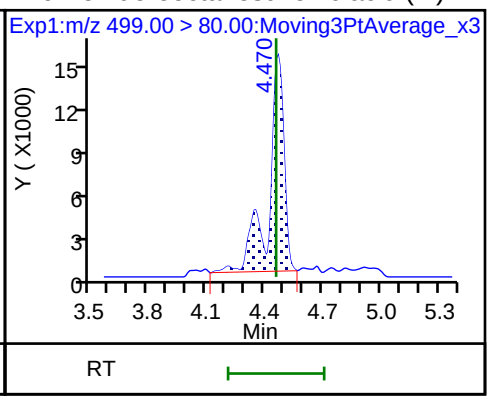
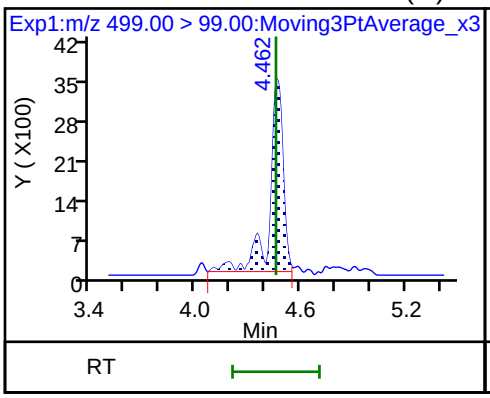


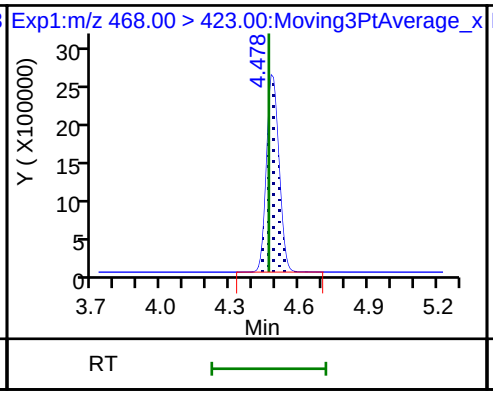
29 Perfluorooctanesulfonic acid (M)



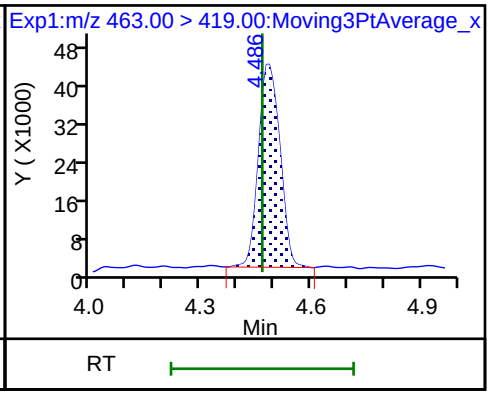
29 Perfluorooctanesulfonic acid (M)



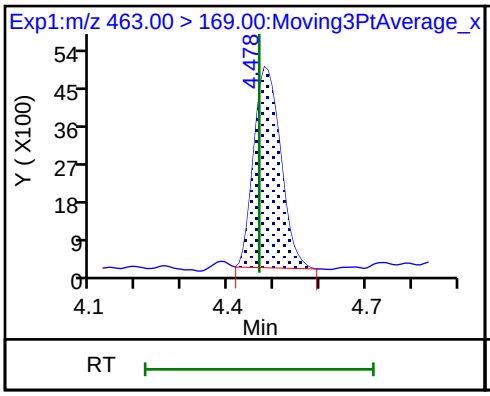
D 30 13C5 PFNA



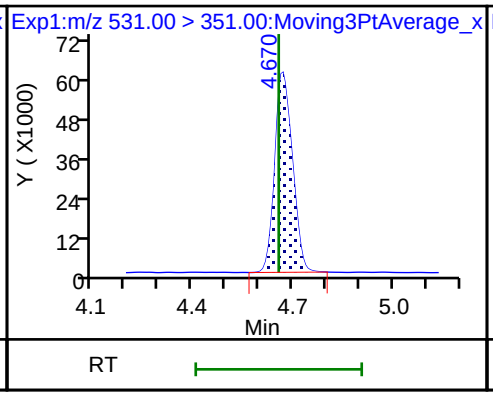
31 Perfluorononanoic acid



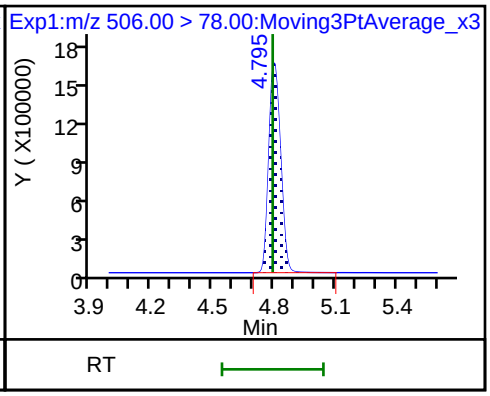
31 Perfluorononanoic acid



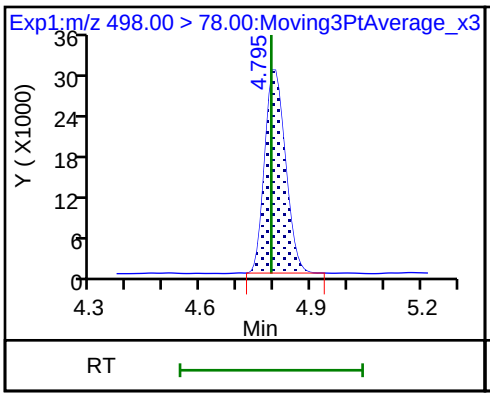
32 9ClFOS



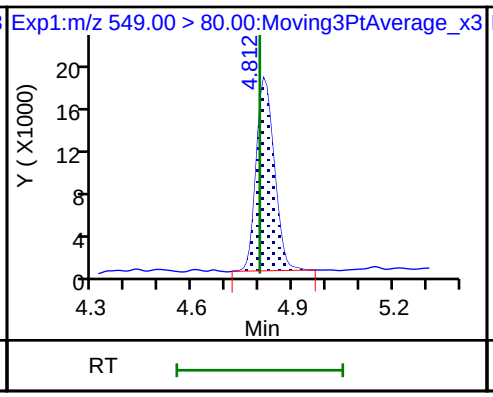
D 33 13C8 FOSA



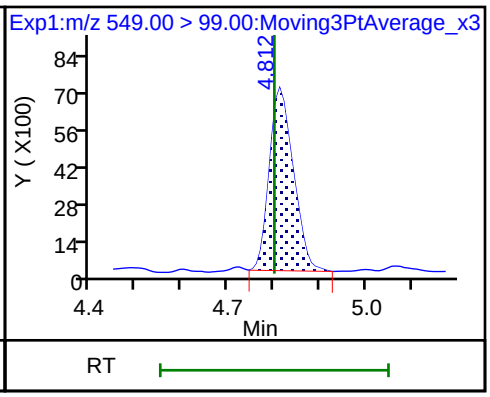
34 Perfluorooctanesulfonamide



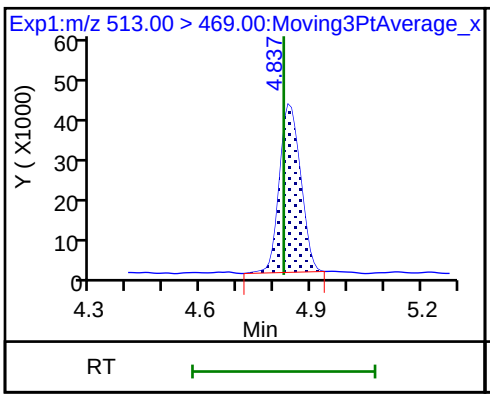
35 Perfluorononanesulfonic acid



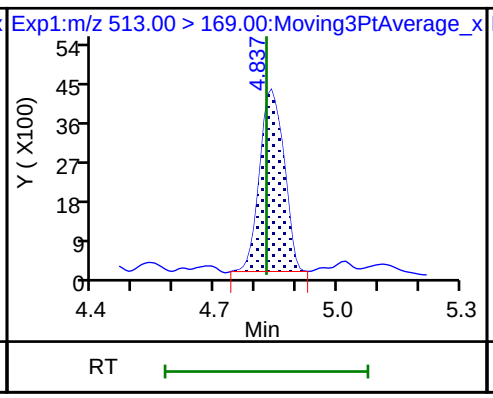
35 Perfluorononanesulfonic acid



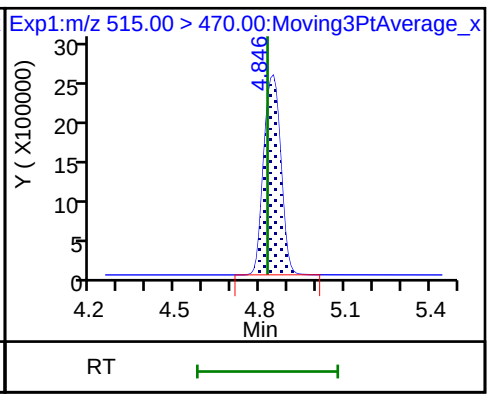
37 Perfluorodecanoic acid



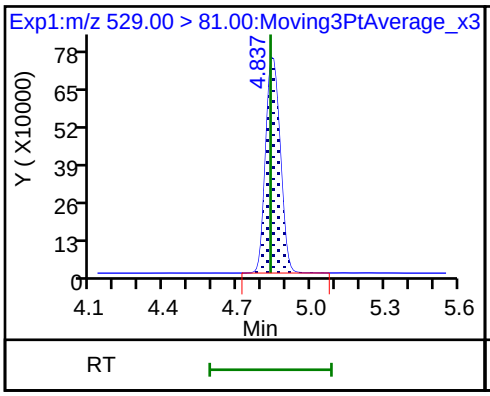
37 Perfluorodecanoic acid



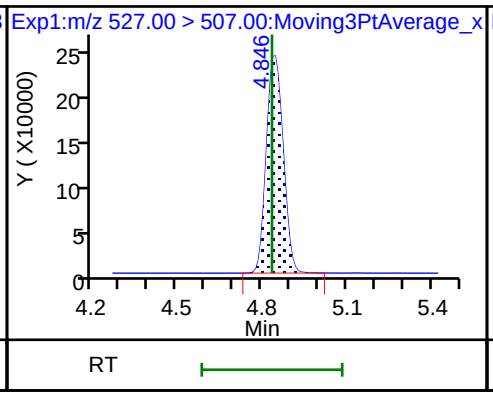
D 39 13C2 PFDA



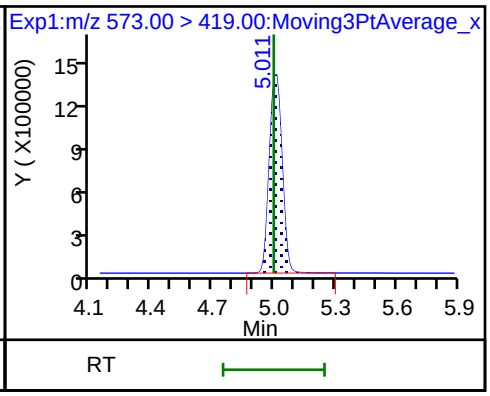
D 38 M2-8:2 FTS



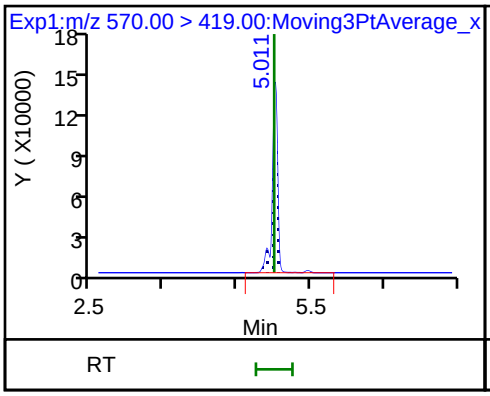
36 8:2 FTS



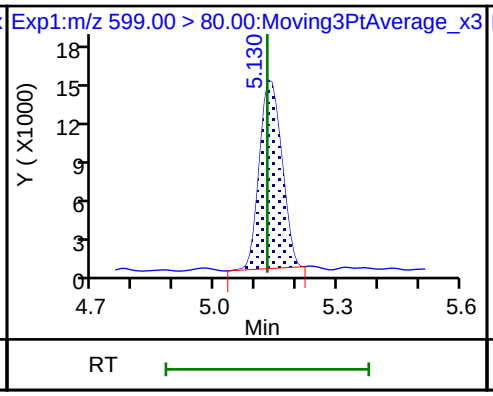
D 40 d3-NMeFOSAA



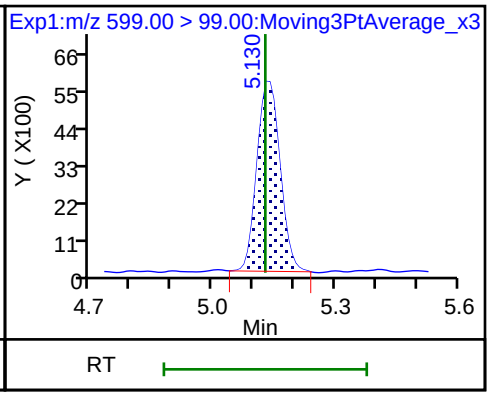
41 NMeFOSAA



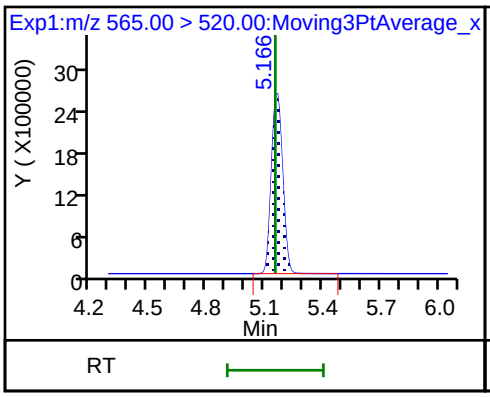
42 Perfluorodecanesulfonic acid



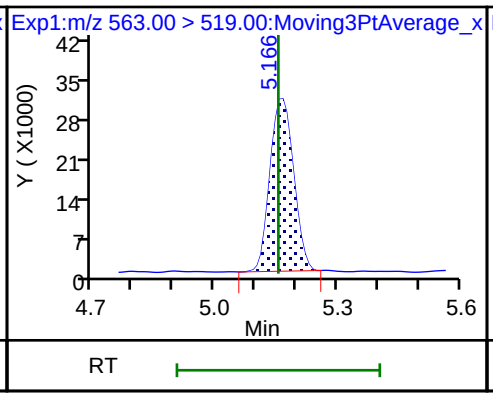
42 Perfluorodecanesulfonic acid



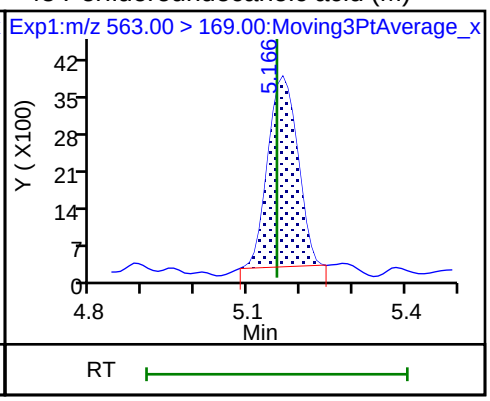
D 43 13C2 PFUnA



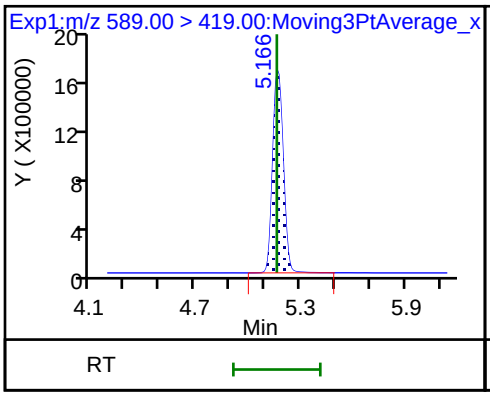
45 Perfluoroundecanoic acid



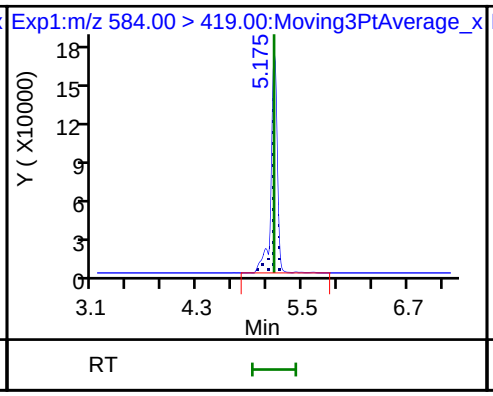
45 Perfluoroundecanoic acid (M)



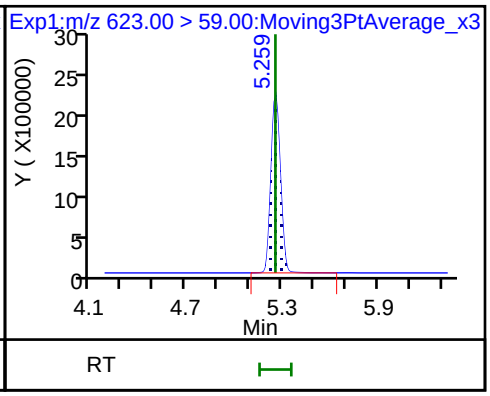
D 44 d5-NEtFOSAA



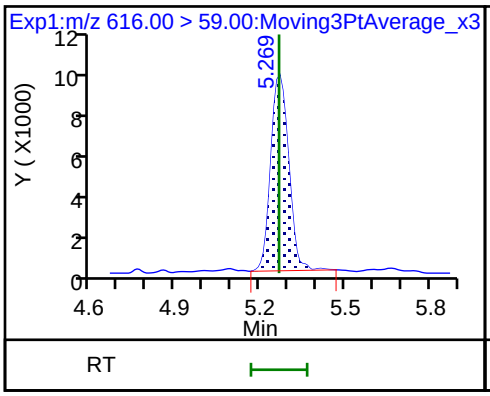
46 NEtFOSA



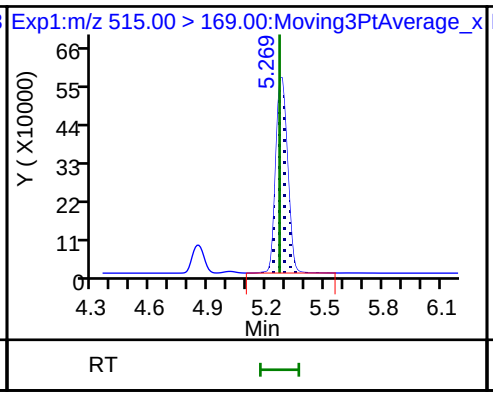
D 47 d7-N-MeFOSE-M



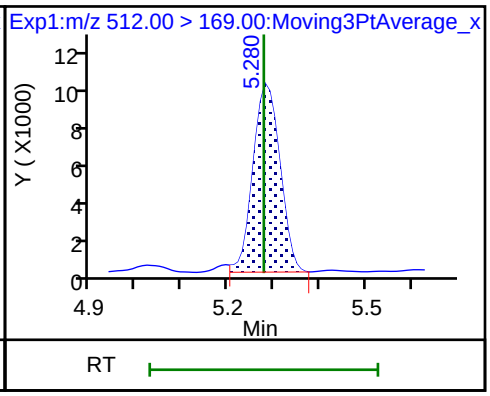
48 N-MeFOSE-M



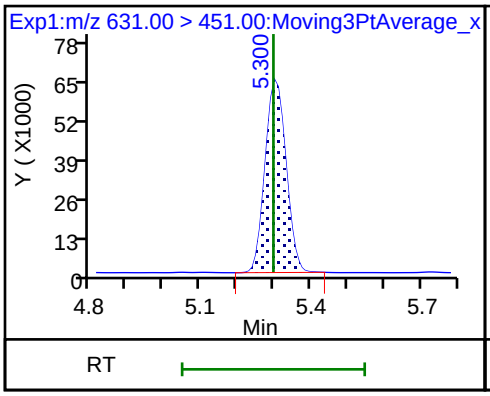
D 49 d-N-MeFOSA-M



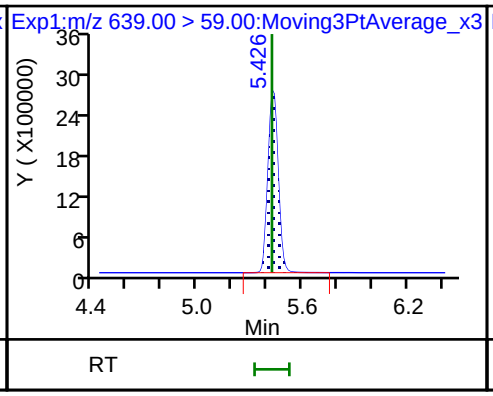
50 NMeFOSA



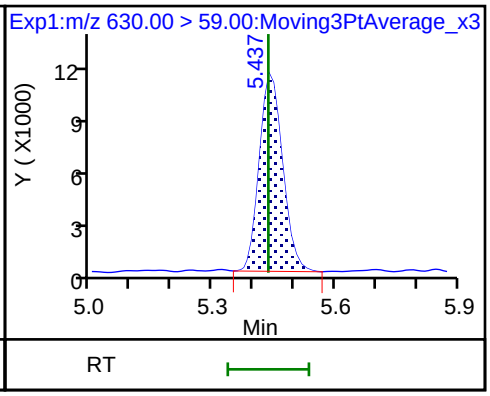
51 11ClFOS



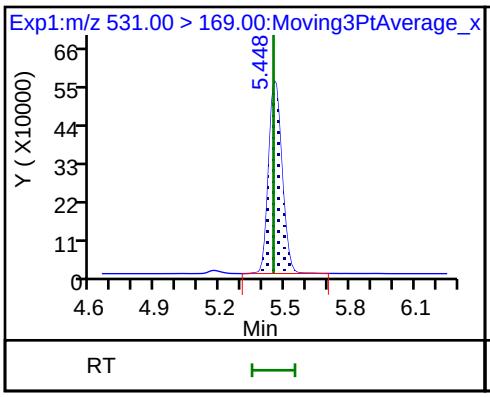
D 52 d9-N-EtFOSE-M



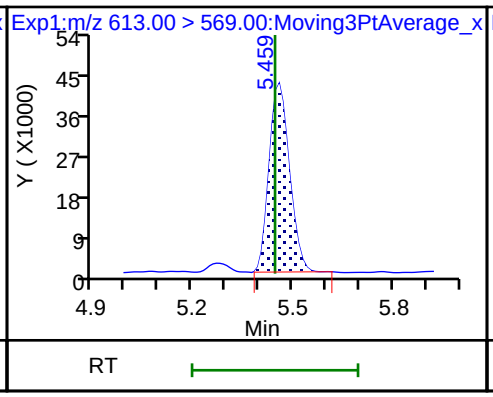
53 N-EtFOSE-M



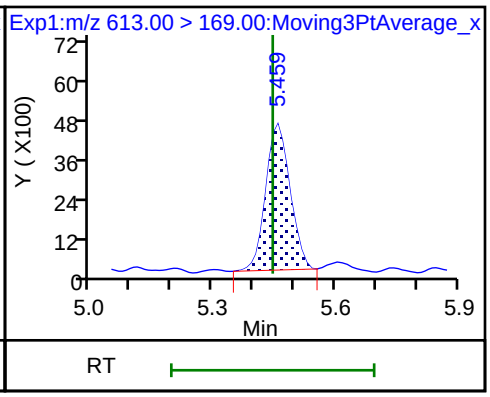
D 54 d-N-EtFOSA-M



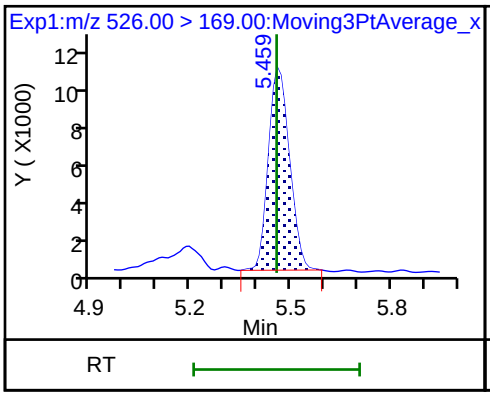
57 Perfluorododecanoic acid



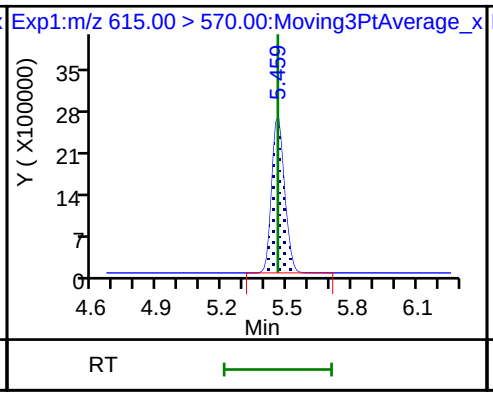
57 Perfluorododecanoic acid



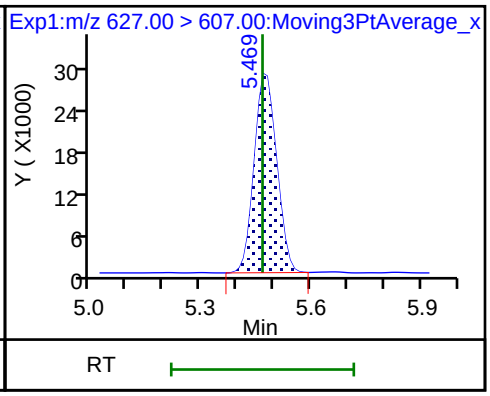
55 N-EtFOSA-M



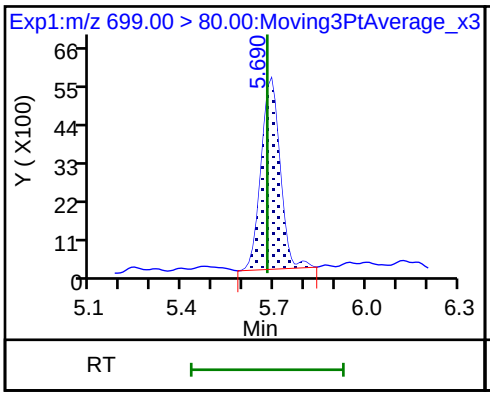
D 56 13C2 PFDoA



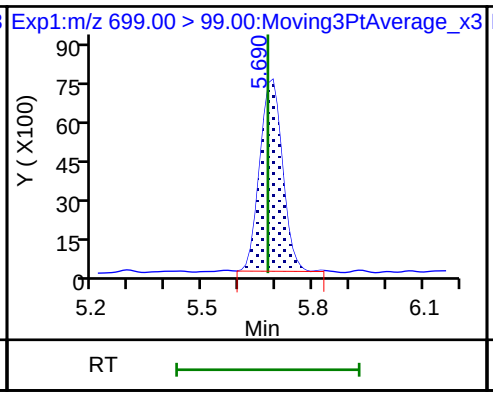
58 10:2 FTS



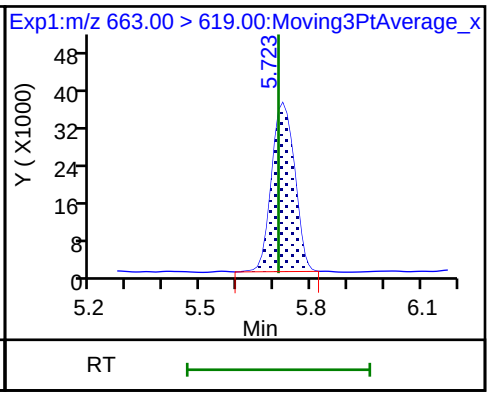
59 PFDoS



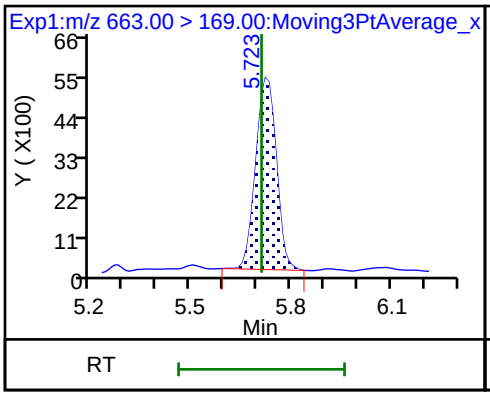
59 PFDoS



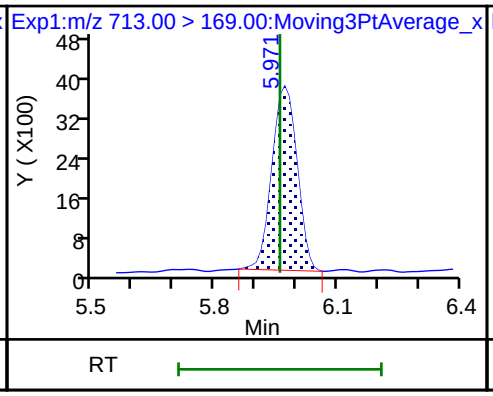
60 Perfluorotridecanoic acid



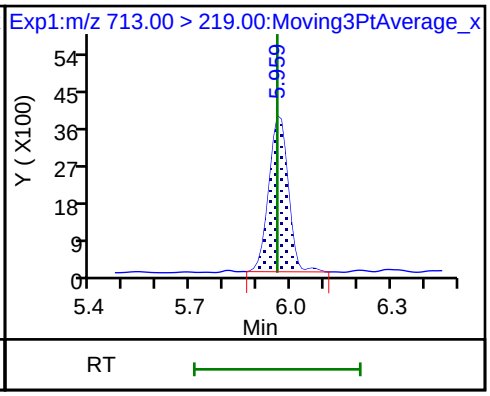
60 Perfluorotridecanoic acid



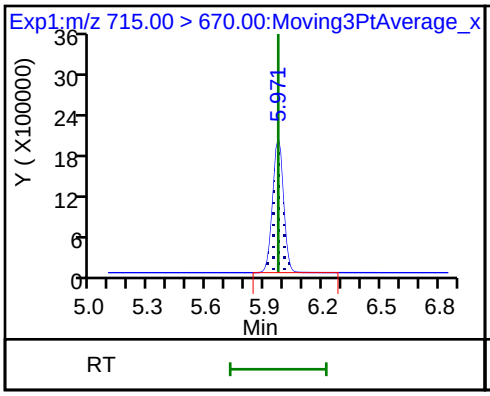
62 Perfluorotetradecanoic acid



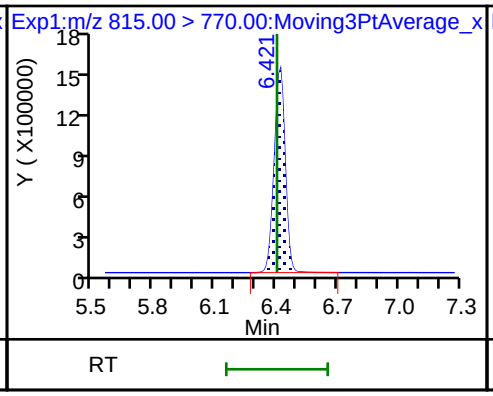
62 Perfluorotetradecanoic acid



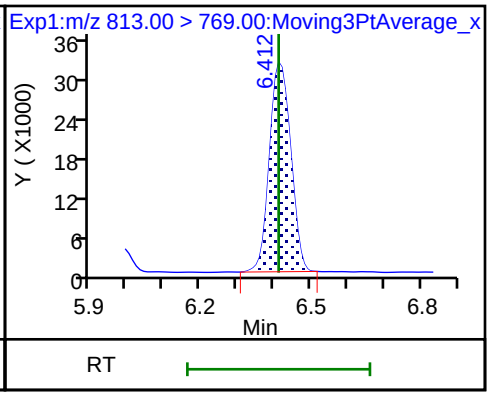
D 61 13C2 PFTeDA



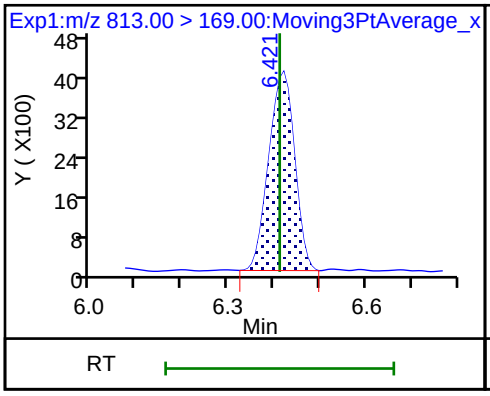
D 64 13C2 PFHxDA



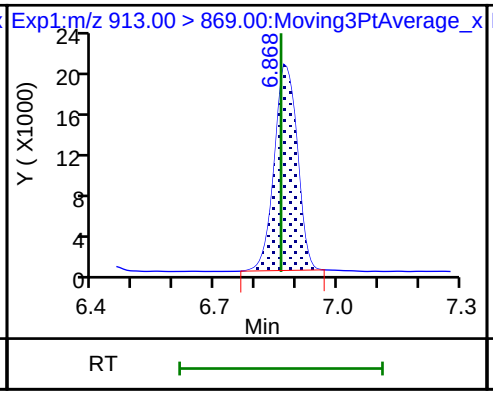
63 Perfluorohexadecanoic acid



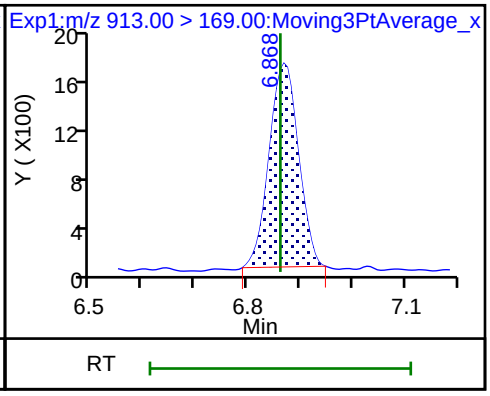
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

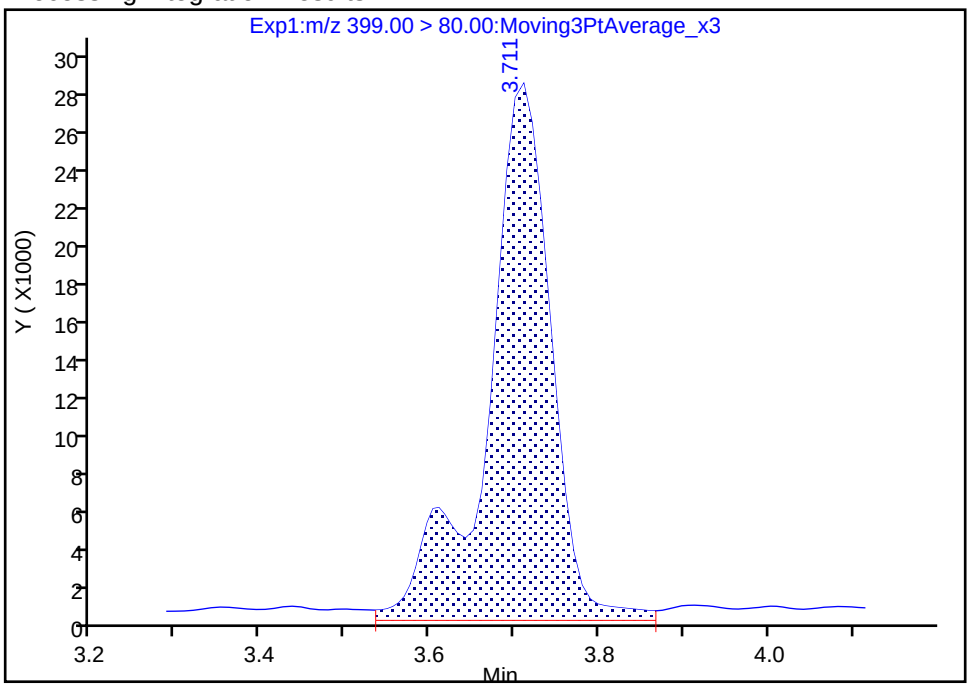
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d
Injection Date: 10-Sep-2020 12:45:05 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

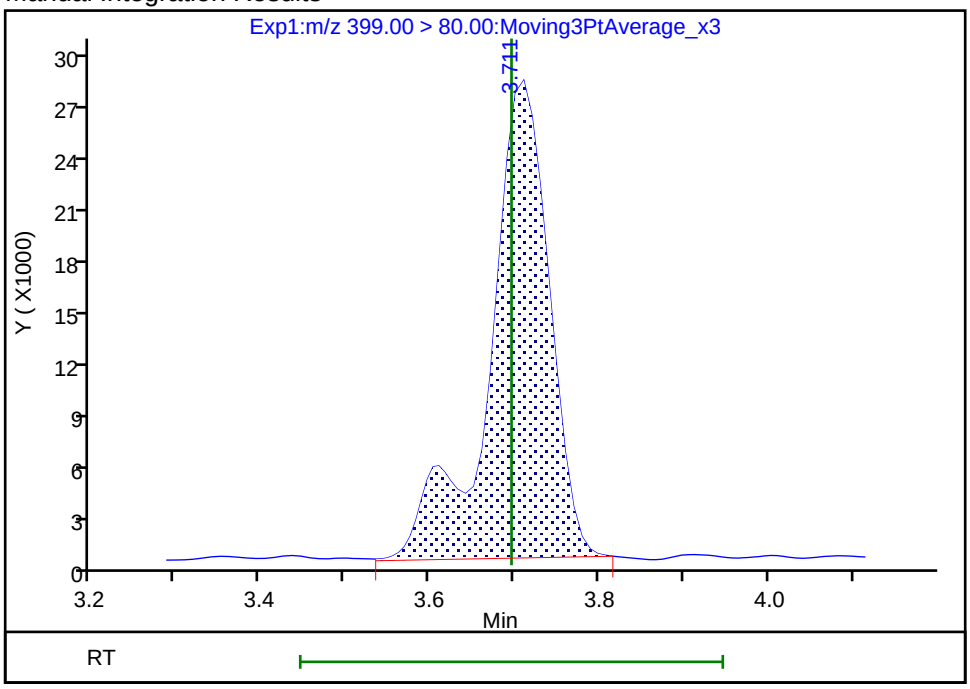
Processing Integration Results

RT: 3.71
Area: 147429
Amount: 0.048998
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 136082
Amount: 0.045227
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:20:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

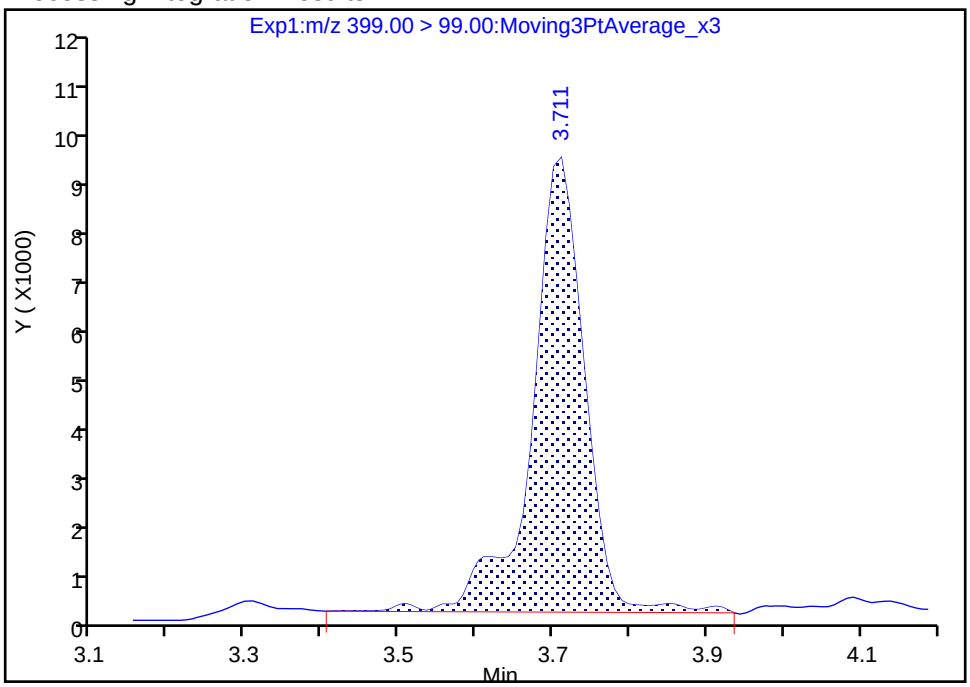
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d
Injection Date: 10-Sep-2020 12:45:05 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

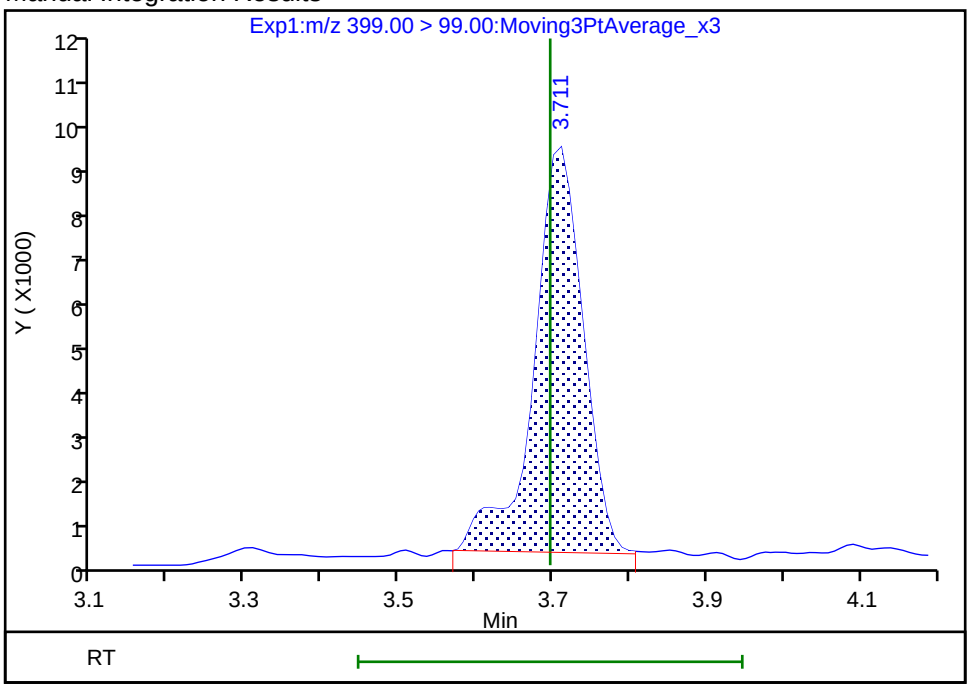
Processing Integration Results

RT: 3.71
Area: 41051
Amount: 0.048998
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 37981
Amount: 0.045227
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:20:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

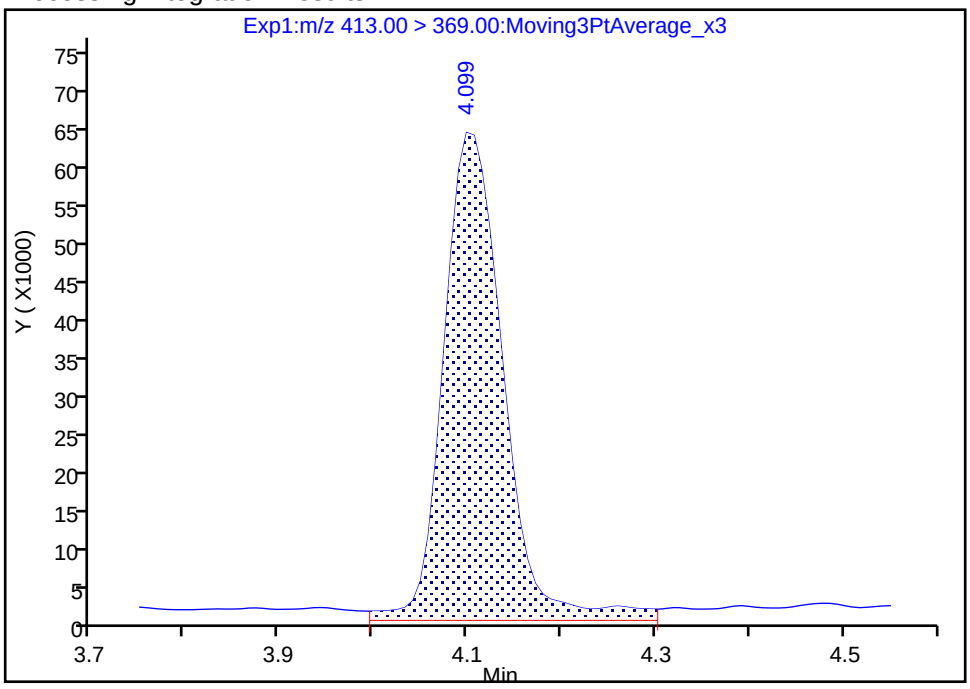
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d
Injection Date: 10-Sep-2020 12:45:05 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

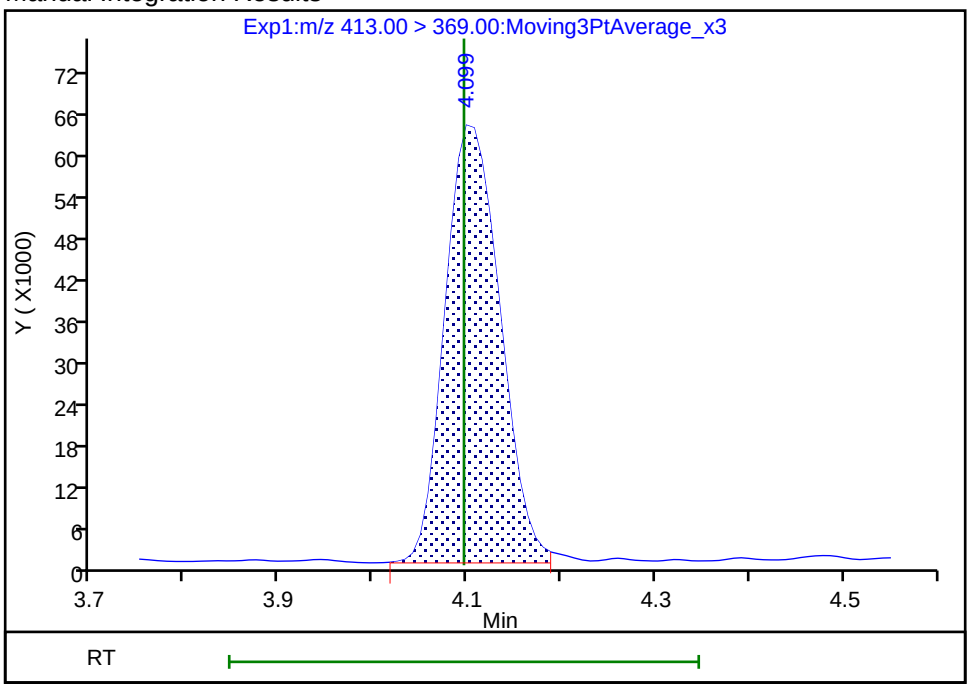
Processing Integration Results

RT: 4.10
Area: 280874
Amount: 0.057157
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 254970
Amount: 0.051886
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:20:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

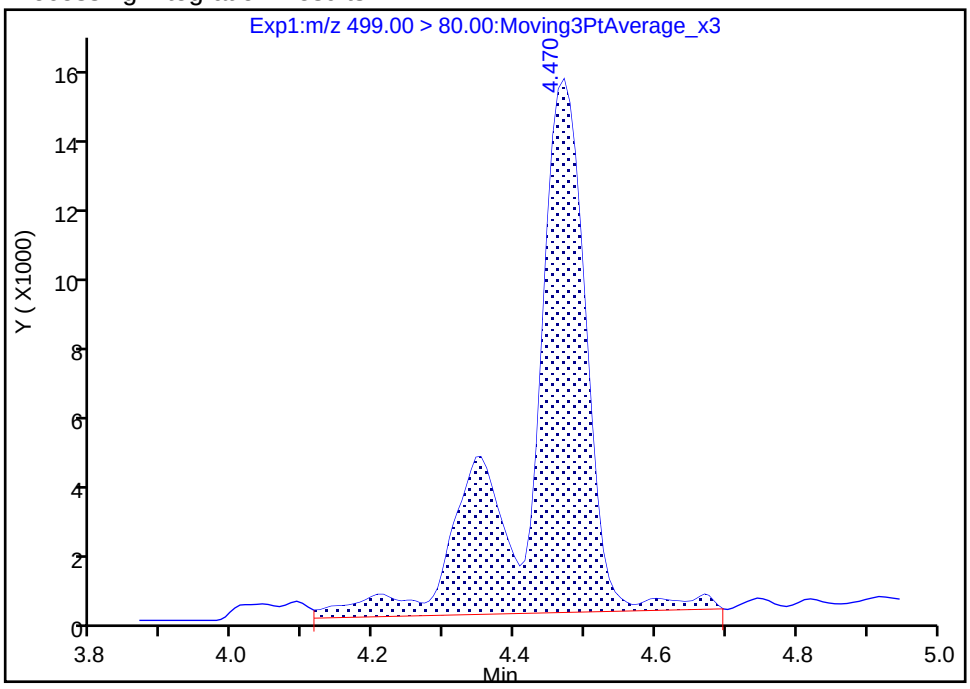
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d
Injection Date: 10-Sep-2020 12:45:05 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

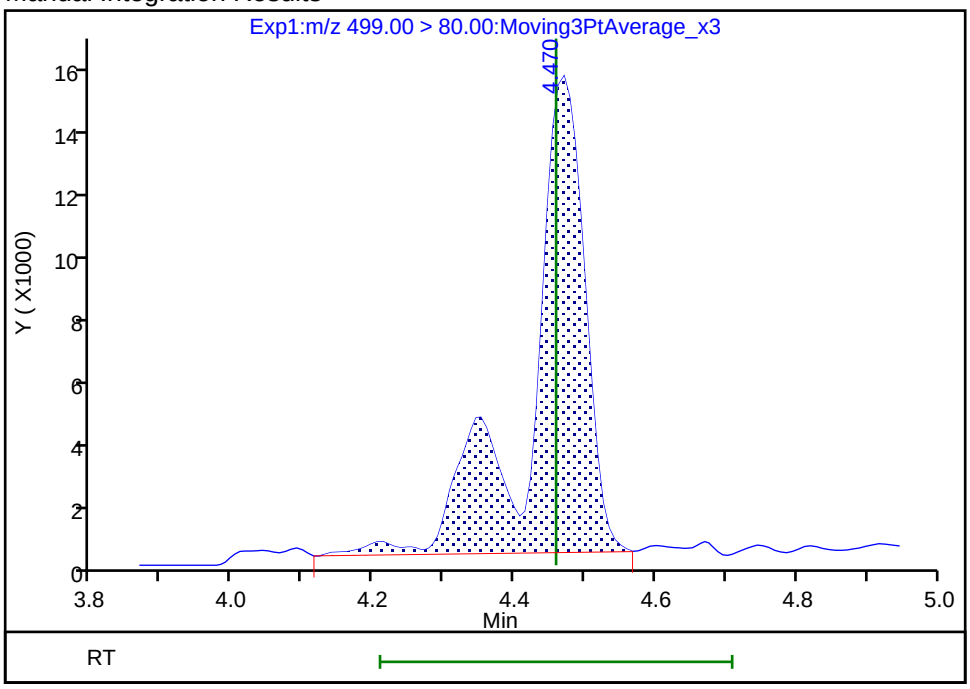
Processing Integration Results

RT: 4.47
Area: 87853
Amount: 0.050956
Amount Units: ng/ml



Manual Integration Results

RT: 4.47
Area: 80586
Amount: 0.046741
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:20:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

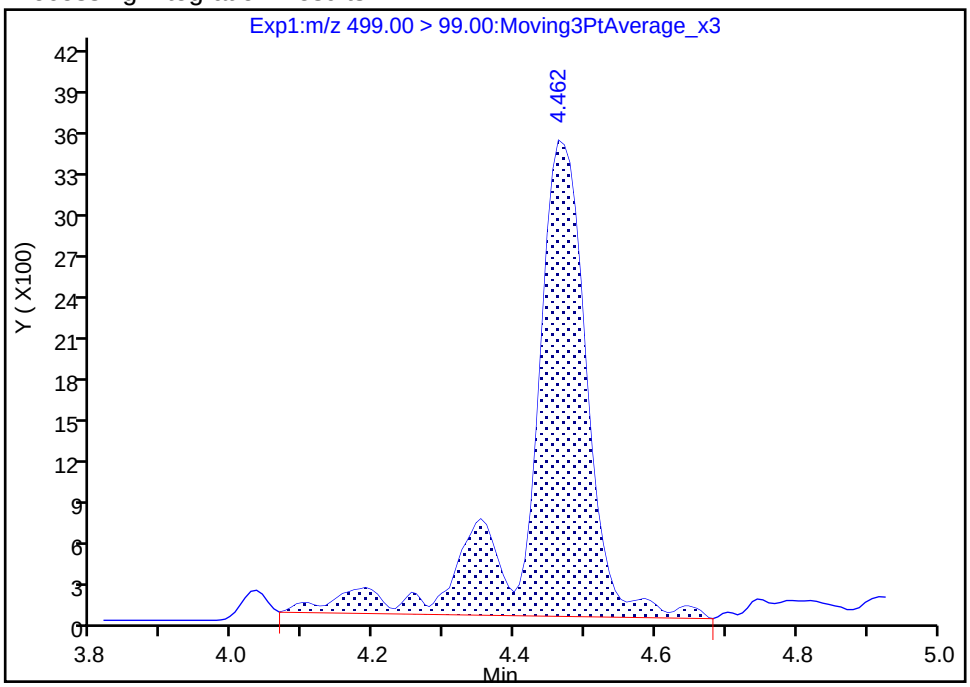
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d				
Injection Date:	10-Sep-2020 12:45:05	Instrument ID:	A18		
Lims ID:	CCVL				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	51	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00 mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

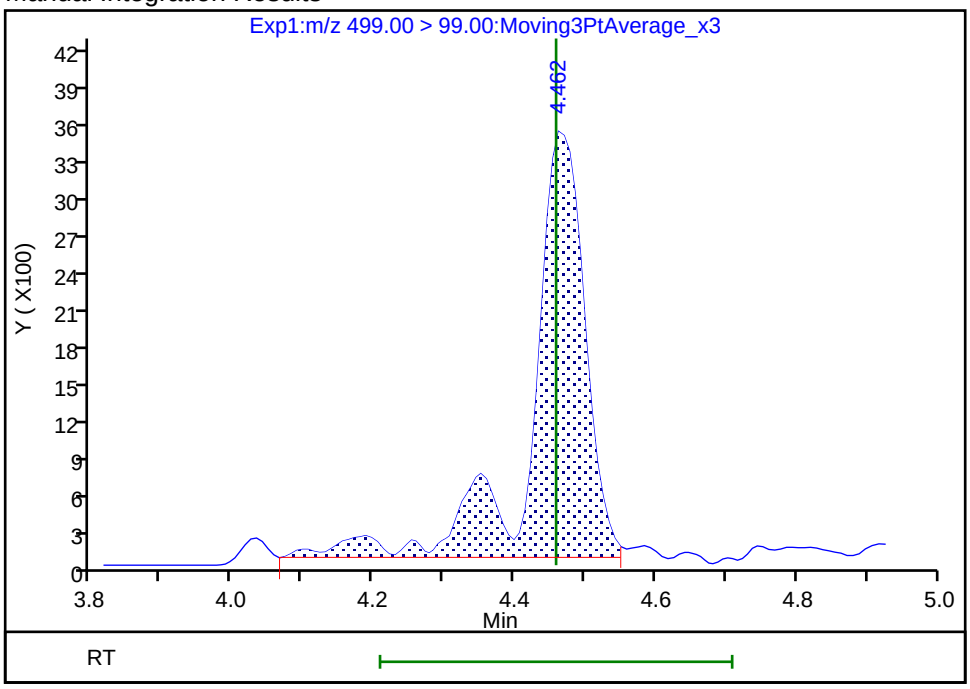
Processing Integration Results

RT: 4.46
Area: 19546
Amount: 0.050956
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 18255
Amount: 0.046741
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:20:59
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

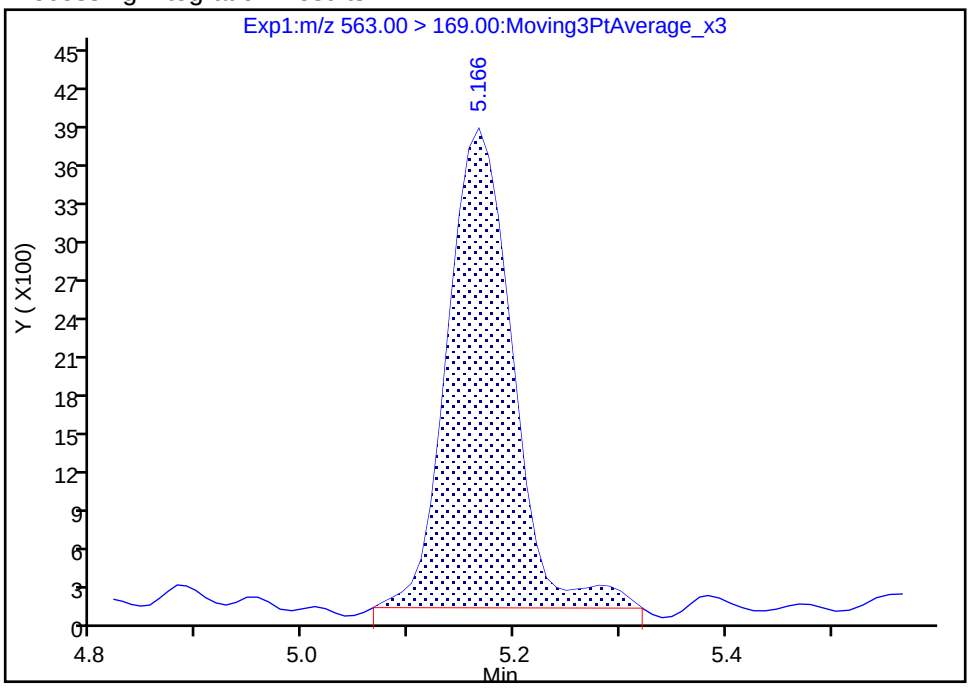
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_017.d
Injection Date: 10-Sep-2020 12:45:05 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

45 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

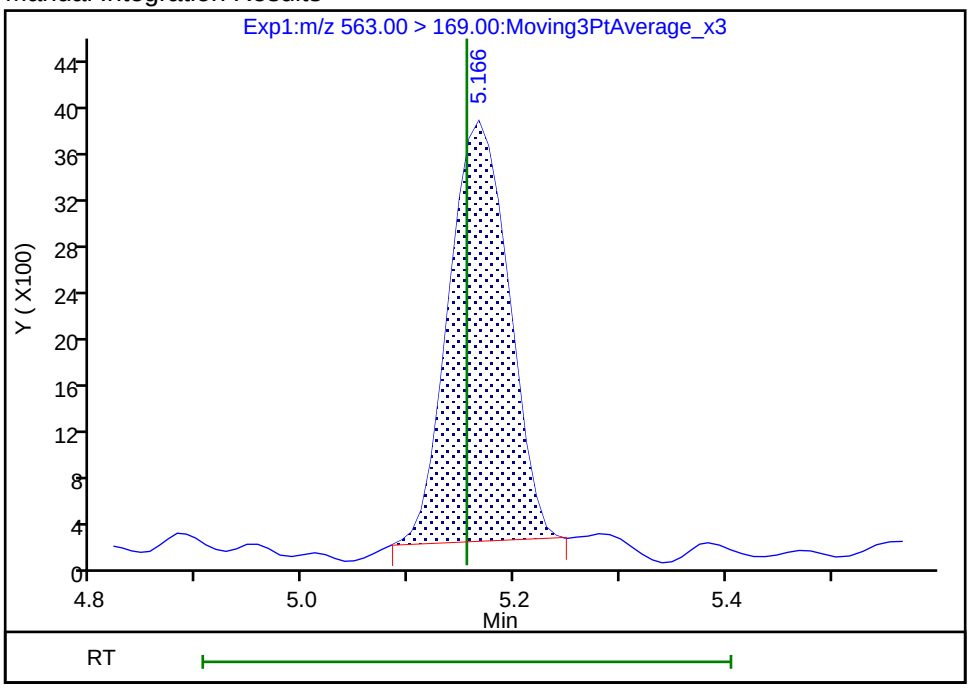
Processing Integration Results

RT: 5.17
Area: 15900
Amount: 0.041000
Amount Units: ng/ml



Manual Integration Results

RT: 5.17
Area: 14232
Amount: 0.041000
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:21:11
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-410948/3 Calibration Date: 09/10/2020 12:54

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_AAA_018.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.9451		1.09	1.00	8.9	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.105		1.11	1.00	10.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.058		0.926	0.884	4.8	50.0
4:2 FTS	AveID	2.273	2.562		1.05	0.934	12.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	1.052		1.09	1.00	9.2	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.8529		1.01	0.938	7.6	50.0
HFPO-DA (GenX)	AveID	0.9742	1.097		1.13	1.00	12.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	1.031		1.02	1.00	1.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.148		0.885	0.910	-2.8	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	10.42		1.02	0.942	8.7	50.0
6:2 FTS	AveID	2.299	2.338		0.964	0.948	1.7	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.298		1.11	0.952	16.1	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.018		0.998	1.00	-0.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.136		1.02	0.928	9.8	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	0.9905		1.04	1.00	3.3	40.0
F-53B Major	AveID	3.236	3.499		1.01	0.932	8.1	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9803		1.05	1.00	5.4	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	1.012		1.04	0.960	8.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.9212		0.956	1.00	-4.4	40.0
8:2 FTS	AveID	1.775	1.900		1.03	0.958	7.0	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.7722		1.04	1.00	4.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.9198		1.06	0.964	10.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.8587		1.19	1.00	18.4	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.7143		1.06	1.00	5.7	40.0
NMeFOSE	AveID	1.080	1.217		1.13	1.00	12.8	40.0
NMeFOSA	AveID	0.9606	1.074		1.12	1.00	11.8	50.0
F-53B Minor	AveID	4.102	4.610		1.06	0.942	12.4	50.0
NEtFOSE	AveID	1.073	1.205		1.12	1.00	12.3	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	1.059		1.04	1.01	3.6	40.0
NEtFOSA	AveID	1.058	1.133		1.07	1.00	7.1	40.0
10:2 FTS	AveID	2.014	2.363		1.13	0.964	17.4	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3369		0.980	0.968	1.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-410948/3 Calibration Date: 09/10/2020 12:54

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_AAA_018.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	0.995		1.06	1.00	5.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.0857		1.02	1.00	1.6	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.999		1.12	1.00	11.5	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.6283		0.951	1.00	-4.9	50.0
13C4 PFBA	Ave	1.585	1.553		2.45	2.50	-2.0	50.0
13C5 PFPeA	Ave	1.233	1.164		2.36	2.50	-5.6	50.0
13C3 PFBS	Ave	0.9684	1.052		2.53	2.33	8.7	50.0
M2-4:2 FTS	Ave	0.2333	0.2331		2.33	2.34	-0.0	50.0
13C2 PFHxA	Ave	1.231	1.257		2.55	2.50	2.2	50.0
13C3 HFPO-DA	Ave	0.2518	0.2413		2.40	2.50	-4.2	50.0
13C4 PFHpA	Ave	1.051	1.144		2.72	2.50	8.9	50.0
18O2 PFHxS	Ave	0.5117	0.5618		2.60	2.37	9.8	50.0
M2-6:2 FTS	Ave	0.1958	0.2058		2.50	2.38	5.1	50.0
13C4 PFOA	Ave	1.001	1.018		2.54	2.50	1.7	50.0
13C4 PFOS	Ave	0.3465	0.3595		2.48	2.39	3.7	50.0
13C5 PFNA	Ave	0.8063	0.9041		2.80	2.50	12.1	50.0
13C8 FOSA	Ave	0.5590	0.5999		2.68	2.50	7.3	50.0
13C2 PFDA	Ave	0.7829	0.8130		2.60	2.50	3.8	50.0
M2-8:2 FTS	Ave	0.2823	0.2710		2.30	2.40	-4.0	50.0
d3-NMeFOSAA	Ave	0.5255	0.5335		2.54	2.50	1.5	50.0
13C2 PFUnA	Ave	0.7758	0.8885		2.86	2.50	14.5	50.0
d5-NEtFOSAA	Ave	0.5556	0.5916		2.66	2.50	6.5	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1630		14.7	12.5	17.8	50.0
d-N-MeFOSA-M	Ave	0.1965	0.2132		2.71	2.50	8.5	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1794		13.2	12.5	5.6	50.0
d-N-EtFOSA-M	Ave	0.2011	0.2070		2.57	2.50	2.9	50.0
13C2 PFDoA	Ave	0.7650	0.8479		2.77	2.50	10.8	50.0
13C2 PFTeDA	Ave	0.6311	0.7138		2.83	2.50	13.1	50.0
13C2 PFHxDA	Ave	0.4618	0.5483		2.97	2.50	18.7	50.0
13C8 PFOA	Ave	0.6756	0.8216		2.98	2.45	21.6	50.0
13C8 PFOS	Ave	0.1082	0.1156		2.55	2.39	6.8	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_018.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Sep-2020 12:54:15 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4 (30)
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:22:05 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1002

First Level Reviewer: vangm Date: 10-Sep-2020 13:22:05
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.555	2.555	0.0	0.624	16404727	2.45		98.0	7250	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.555	2.555	0.0	1.000	6201636	1.09		109	451	
D 4 13C5 PFPeA										
267.90 > 223.00	2.907	2.907	0.0	0.710	12289872	2.36		94.4	5020	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.907	2.907	0.0	1.000	5432211	1.11		111	319	
D 9 13C3 PFBS										
301.90 > 80.00	2.938	2.938	0.0	0.717	10337529	2.53		109	4689	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.948	2.948	0.0	1.004	4159294	0.9264	Target=2.30	105	866	
298.90 > 99.00	2.938	2.948	-0.010	1.000	1758332		2.37(1.15-3.45)		683	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.236	3.236	0.0	0.790	2299183	2.33		99.9	1171	
8 4:2 FTS										
327.00 > 307.00	3.236	3.236	0.0	1.000	2356350	1.05		113	9533	
D 11 13C2 PFHxA										
315.00 > 270.00	3.286	3.286	0.0	0.802	13280496	2.55		102	5058	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.286	3.286	0.0	1.000	5589753	1.09	Target=13.78	109	503	
313.00 > 119.00	3.286	3.286	0.0	1.000	412825		13.54(6.89-20.66)		247	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.296	3.296	0.0	1.122	3557013	1.01	Target=3.02	108	750	
349.00 > 99.00	3.296	3.296	0.0	1.122	1167061		3.05(1.51-4.52)		916	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.413	3.413	0.0	0.833	2548162	2.40		95.8	5158	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 HPFO-DA										
285.00 > 169.00	3.413	3.413	0.0	1.000	1117993	1.13		113	3641	
D 17 18O2 PFHxS										
403.00 > 84.00	3.696	3.696	0.0	0.902	5613082	2.60		110	4797	
D 18 13C4 PFHpA										
367.00 > 322.00	3.696	3.696	0.0	0.902	12084106	2.72		109	4983	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.696	3.696	0.0	1.000	2480298	0.8845	Target=3.50	97.2	765	
399.00 > 99.00	3.696	3.696	0.0	1.000	727140		3.41(1.75-5.25)		715	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.696	3.696	0.0	1.000	4983445	1.02	Target=3.84	102	657	
363.00 > 169.00	3.686	3.696	-0.010	0.997	1339228		3.72(1.92-5.76)		1069	
19 DONA										
377.00 > 251.00	3.746	3.746	0.0	0.841	14908644	1.02	Target=2.42	109	6242	
377.00 > 85.00	3.746	3.746	0.0	0.841	6179407		2.41(1.21-3.63)		4573	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.072	4.072	0.0	0.994	2064475	2.50		105	1470	
21 6:2 FTS										
427.00 > 407.00	4.072	4.072	0.0	1.000	1926796	0.9642		102	3293	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.080	4.080	0.0	0.917	1876992	1.11	Target=4.40	116	755	
449.00 > 99.00	4.080	4.080	0.0	0.917	427633		4.39(2.20-6.60)		569	
$ 26 13C8 PFOA										
421.00 > 376.00	4.080	4.080	0.0	0.996	8494440	2.98		122	5113	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.096	4.096	0.0	1.000	4382581	1.00	Target=2.94	99.7	841	
413.00 > 169.00	4.088	4.096	-0.008	0.998	1478774		2.96(1.47-4.41)		7975	
D 25 13C4 PFOA										
417.00 > 372.00	4.096	4.096	0.0	1.000	10755160	2.54		102	4906	
* 23 13C2 PFOA										
415.00 > 370.00	4.096	4.096	0.0		10561280	2.50			5683	
$ 28 13C8 PFOS										
507.00 > 99.00	4.451	4.451	0.0	1.087	1166968	2.55		107	3009	
D 27 13C4 PFOS										
503.00 > 80.00	4.451	4.451	0.0	1.087	3630081	2.48		104	1410	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.459	4.459	0.0	1.002	1601488	1.02	Target=4.53	110	486	M
499.00 > 99.00	4.451	4.459	-0.008	1.000	336115		4.76(2.26-6.79)		545	
D 30 13C5 PFNA										
468.00 > 423.00	4.467	4.467	0.0	1.091	9548404	2.80		112	5332	
31 Perfluorononanoic acid										
463.00 > 419.00	4.467	4.467	0.0	1.000	3790477	1.03	Target=8.97	103	788	
463.00 > 169.00	4.475	4.467	0.008	1.002	421785		8.99(4.48-13.45)		613	
32 9ClFOS										
531.00 > 351.00	4.657	4.657	0.0	1.046	4953068	1.01		108	4976	
D 33 13C8 FOSA										
506.00 > 78.00	4.791	4.791	0.0	1.170	6335485	2.68		107	5532	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.791	4.791	0.0	1.000	2484348	1.05		105	3329	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.800	4.800	0.0	1.078	1474954	1.04	Target=2.85	108	1047	
549.00 > 99.00	4.808	4.800	0.008	1.080	537830		2.74(1.43-4.28)		916	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.826	4.826	0.0	1.000	3163918	0.9557	Target=10.16	95.6	1289	
513.00 > 169.00	4.826	4.826	0.0	1.000	353938		8.94(5.08-15.24)		233	
D 39 13C2 PFDA										
515.00 > 470.00	4.826	4.826	0.0	1.178	8586618	2.60		104	6578	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.834	4.834	0.0	1.180	2742146	2.30		96.0	1540	
36 8:2 FTS										
527.00 > 507.00	4.834	4.834	0.0	1.000	2083961	1.03		107	5833	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.997	4.997	0.0	1.220	5634252	2.54		102	2769	
41 NMeFOSAA										
570.00 > 419.00	4.997	4.997	0.0	1.000	1740417	1.04		104	11453	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.128	5.128	0.0	1.152	1346774	1.06	Target=2.77	110	1046	
599.00 > 99.00	5.128	5.128	0.0	1.152	468969		2.87(1.38-4.15)		1343	
D 43 13C2 PFUnA										
565.00 > 520.00	5.155	5.155	0.0	1.258	9383706	2.86		115	8988	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.155	5.155	0.0	1.000	3226433	1.19	Target=8.43	118	1795	
563.00 > 169.00	5.155	5.155	0.0	1.000	364432		8.85(4.22-12.65)		487	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.164	5.164	0.0	1.261	6248107	2.66		106	2229	
46 NEtFOSA										
584.00 > 419.00	5.173	5.173	0.0	1.002	1785149	1.06		106	1410	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.256	5.256	0.0	1.283	8605213	14.7		118	5036	
48 N-MeFOSE-M										
616.00 > 59.00	5.267	5.267	0.0	1.002	838051	1.13		113	1218	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.267	5.267	0.0	1.286	2252060	2.71		109	44.8	
50 NMeFOSA										
512.00 > 169.00	5.277	5.277	0.0	1.002	967411	1.12		112	558	
51 11ClFOS										
631.00 > 451.00	5.297	5.297	0.0	1.190	6595637	1.06		112	6900	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.424	5.424	0.0	1.324	9475778	13.2		106	4327	
53 N-EtFOSE-M										
630.00 > 59.00	5.435	5.435	0.0	1.002	913590	1.12		112	1759	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.446	5.446	0.0	1.330	2186014	2.57		103	284	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.446	5.446	0.0	0.998	3817152	1.04	Target=9.12	104	1422	
613.00 > 169.00	5.457	5.446	0.011	1.000	434880		8.78(4.56-13.69)		1033	
55 N-EtFOSA-M										
526.00 > 169.00	5.457	5.457	0.0	1.002	990860	1.07		107	362	
D 56 13C2 PFDoA										
615.00 > 570.00	5.457	5.457	0.0	1.332	8955283	2.77		111	11295	
58 10:2 FTS										
627.00 > 607.00	5.467	5.467	0.0	1.131	2608630	1.13		117	3599	
59 PFDoS										
699.00 > 80.00	5.677	5.677	0.0	1.275	495304	0.9796	Target=0.72	101	567	
699.00 > 99.00	5.677	5.677	0.0	1.275	723860		0.68(0.36-1.07)		2103	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.711	5.711	0.0	1.047	3565595	1.06	Target=6.78	106	2349	
663.00 > 169.00	5.711	5.711	0.0	1.047	554289		6.43(3.39-10.17)		1163	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.959	5.959	0.0	0.998	258800	1.02	Target=0.85	102	1173	
713.00 > 219.00	5.947	5.959	-0.012	0.996	256409		1.01(0.43-1.28)		1034	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.970	5.970	0.0	1.457	7539008	2.83		113	7145	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.403	6.403	0.0	1.563	5790506	2.97		119	6053	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.412	6.412	0.0	1.001	2314737	1.12	Target=10.21	112	1673	
813.00 > 169.00	6.412	6.412	0.0	1.001	222337		10.41(5.11-15.32)		1286	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.861	6.861	0.0	1.072	1455233	0.9513	Target=12.45	95.1	1199	
913.00 > 169.00	6.861	6.861	0.0	1.072	127781		11.39(6.22-18.67)		1256	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:22:06 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_018.d

Injection Date: 10-Sep-2020 12:54:15 Instrument ID: A18

Lims ID: CCV L4

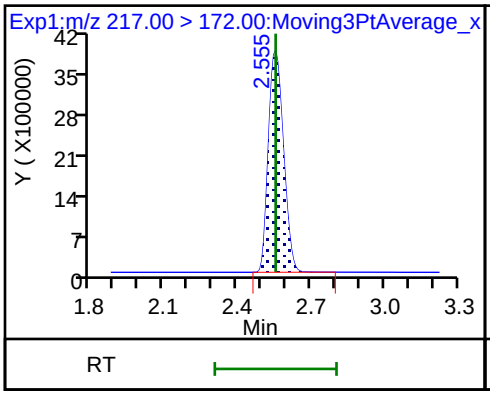
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 3

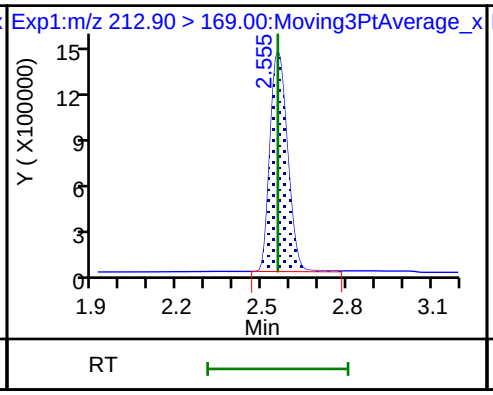
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

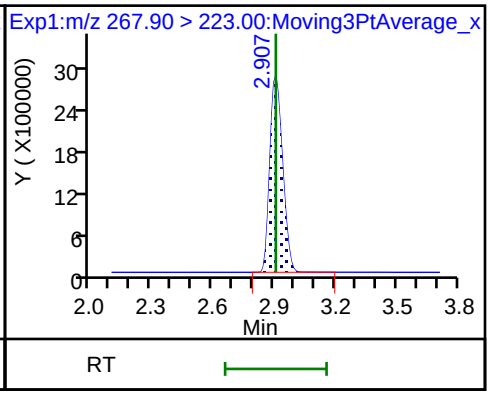
D 1 13C4 PFBA



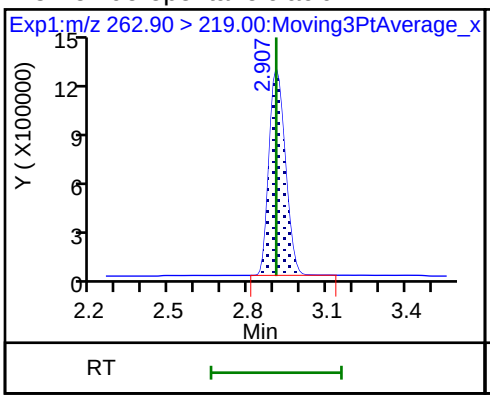
2 Perfluorobutanoic acid



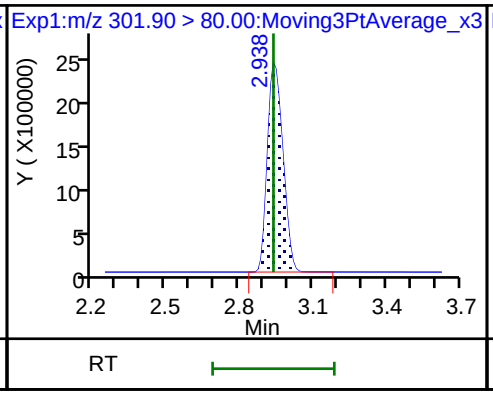
D 4 13C5 PFPeA



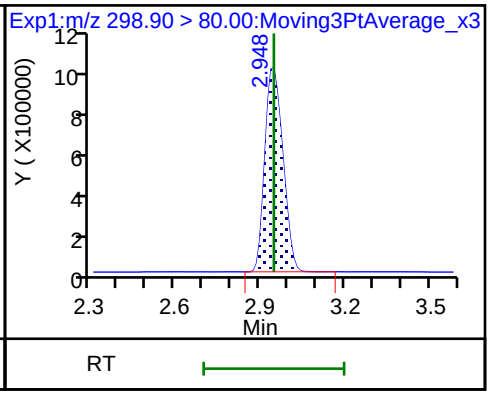
5 Perfluoropentanoic acid



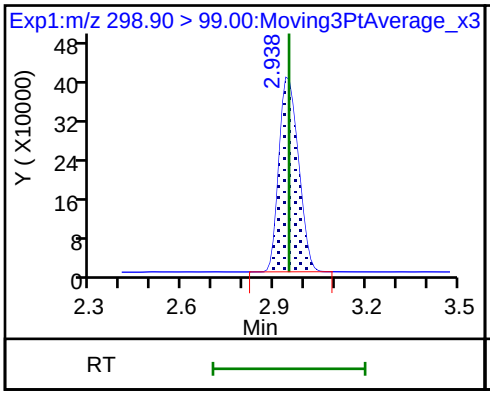
D 9 13C3 PFBS



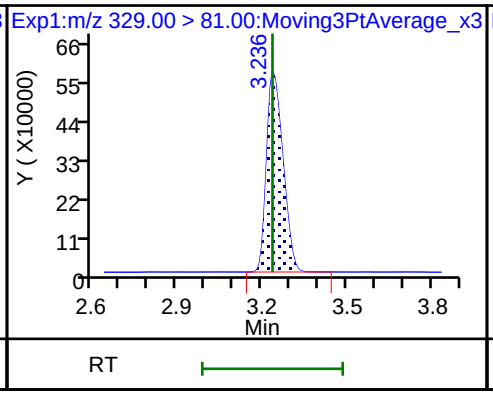
6 Perfluorobutanesulfonic acid



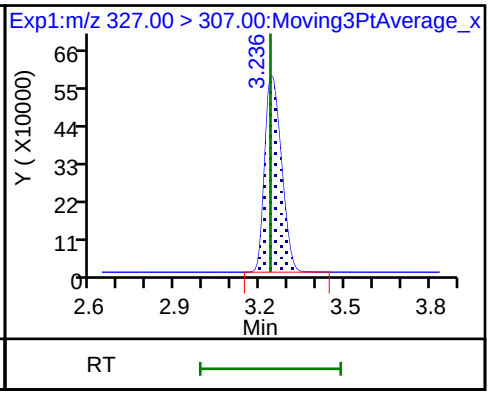
6 Perfluorobutanesulfonic acid



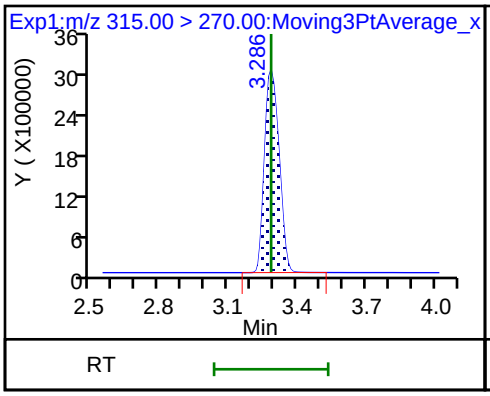
D 7 M2-4:2 FTS



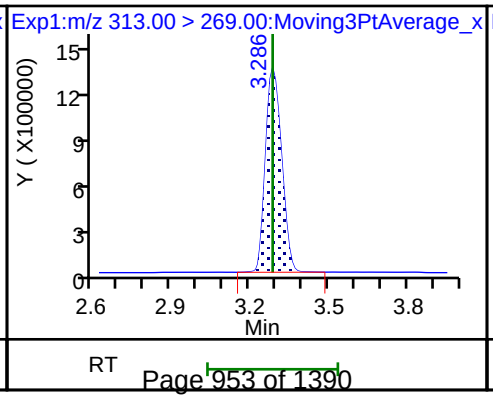
8 4:2 FTS



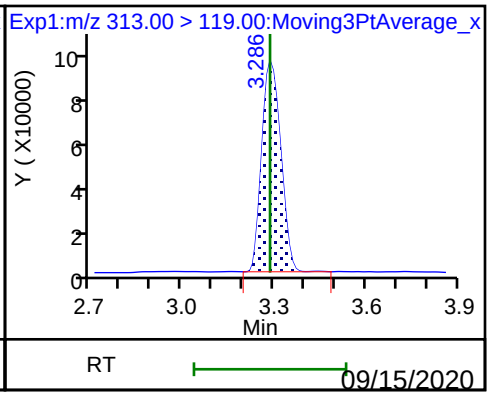
D 11 13C2 PFHxA



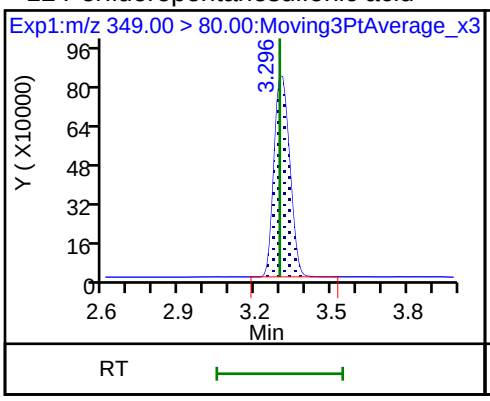
10 Perfluorohexanoic acid



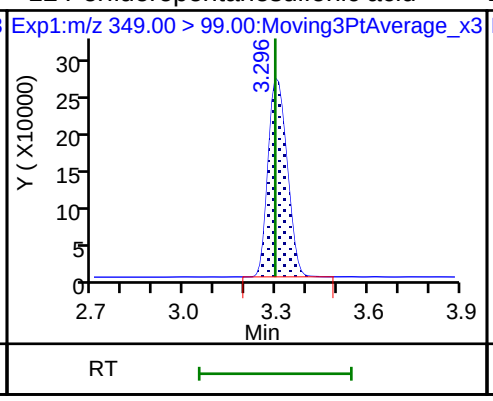
10 Perfluorohexanoic acid



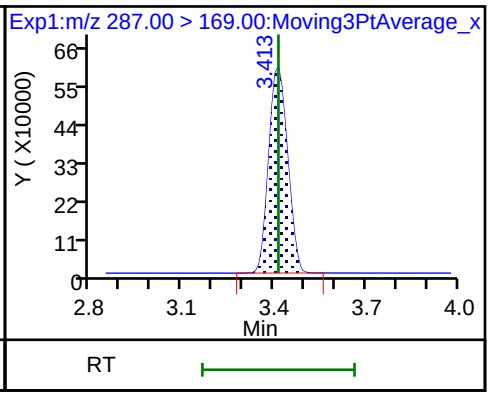
12 Perfluoropentanesulfonic acid



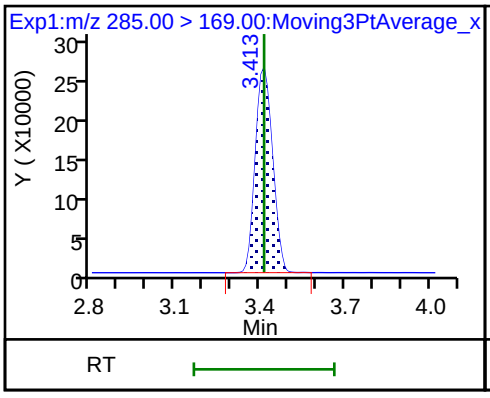
12 Perfluoropentanesulfonic acid



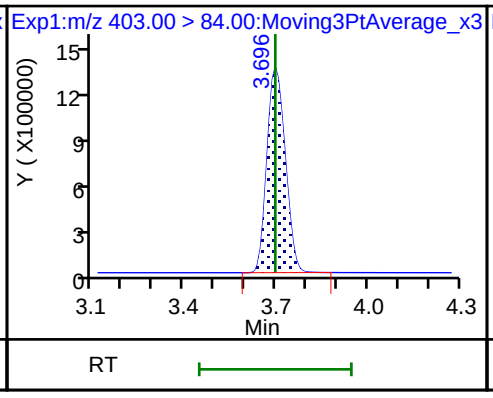
D 14 13C3 HFPO-DA



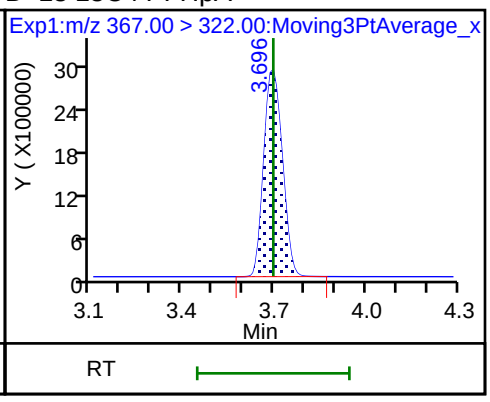
13 HPFO-DA



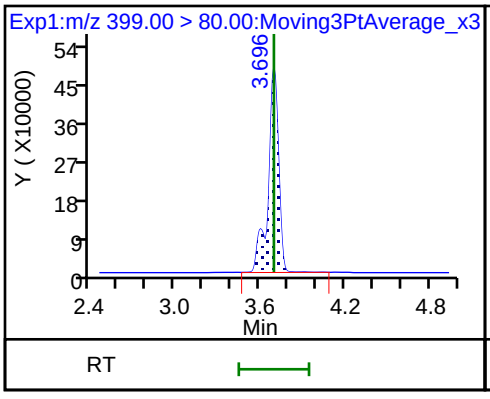
D 17 18O2 PFHxS



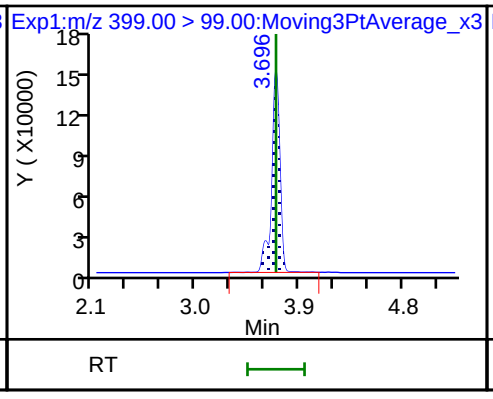
D 18 13C4 PFHpA



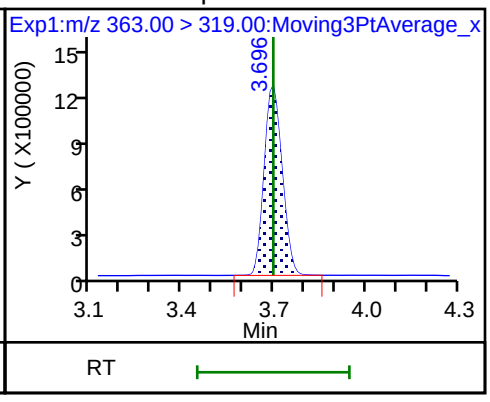
15 Perfluorohexanesulfonic acid



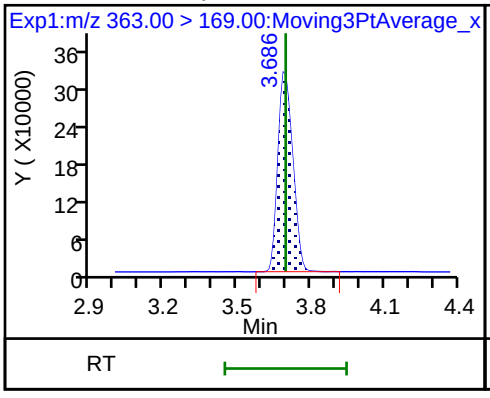
15 Perfluorohexanesulfonic acid



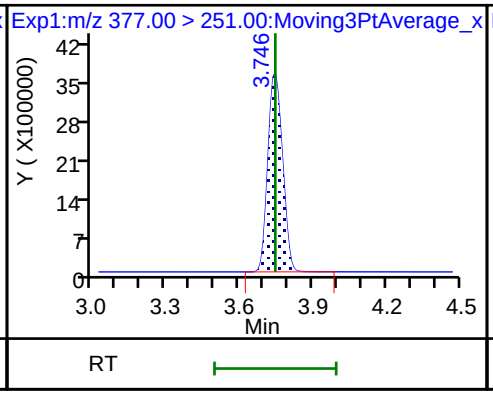
16 Perfluoroheptanoic acid



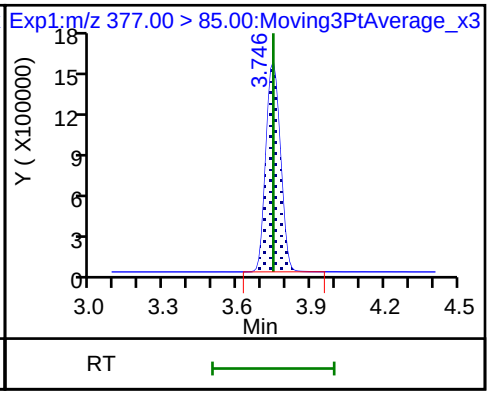
16 Perfluoroheptanoic acid



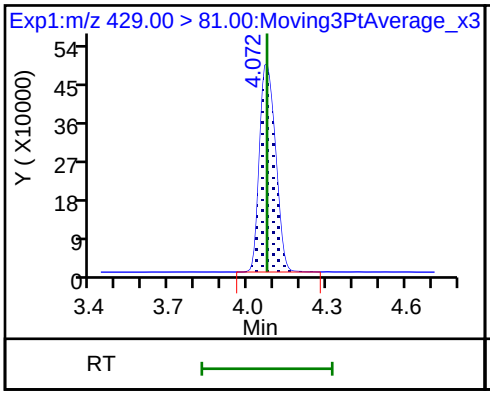
19 DONA



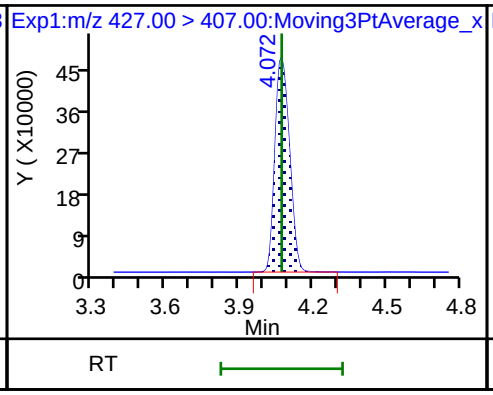
19 DONA



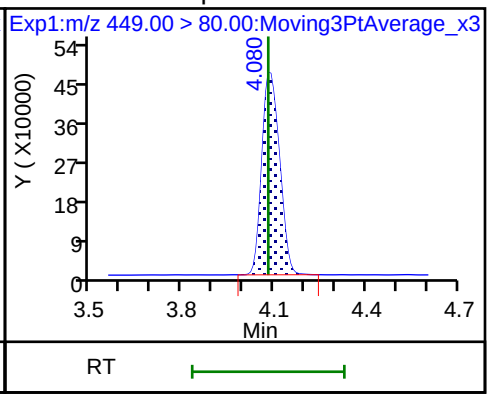
D 20 M2-6:2 FTS



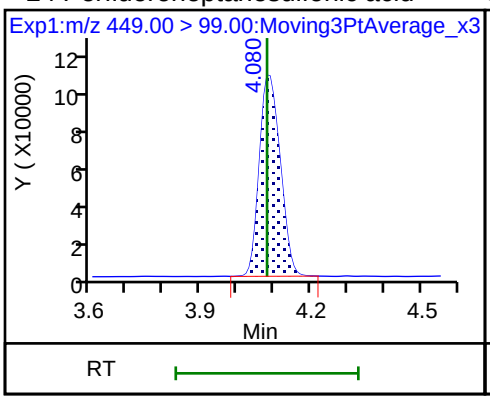
21 6:2 FTS



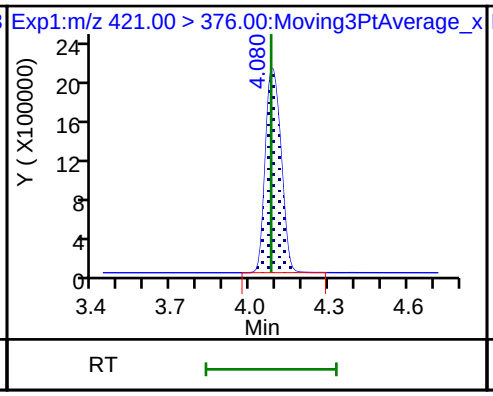
24 Perfluoroheptanesulfonic acid



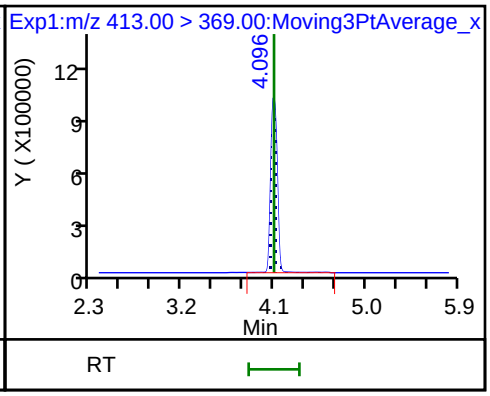
24 Perfluoroheptanesulfonic acid



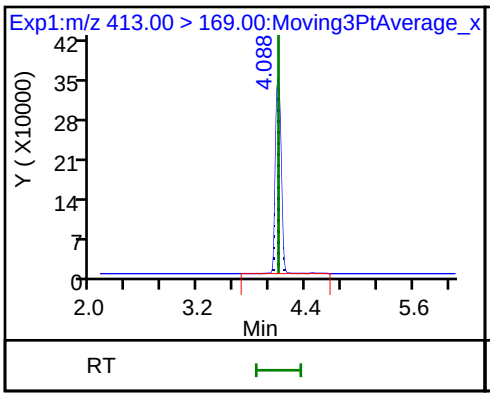
$ 26 13C8 PFOA



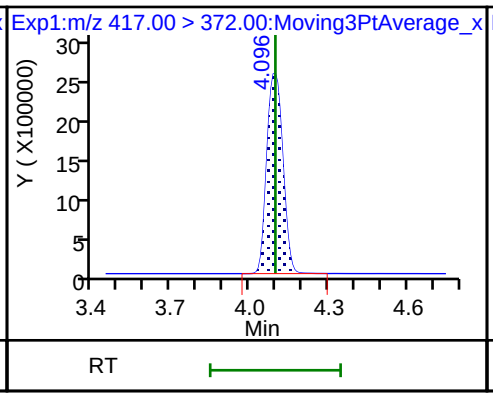
22 Perfluorooctanoic acid



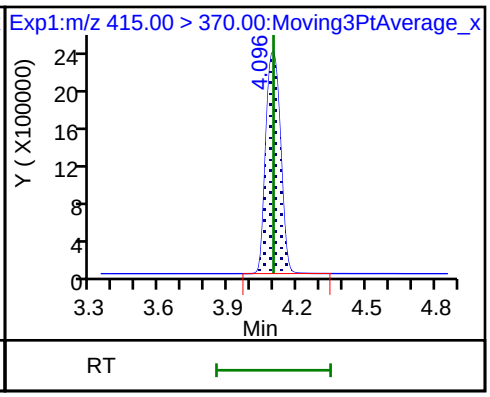
22 Perfluorooctanoic acid



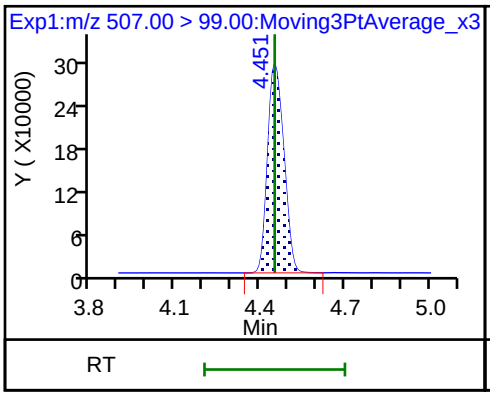
D 25 13C4 PFOA



* 23 13C2 PFOA



$ 28 13C8 PFOS



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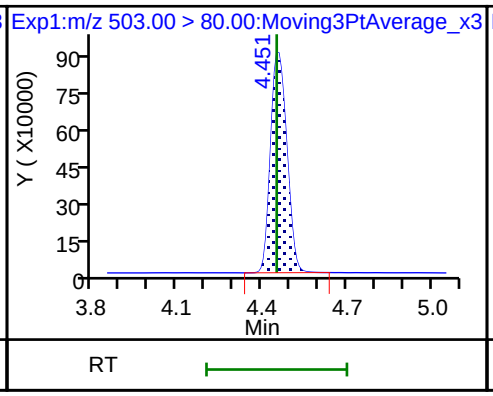
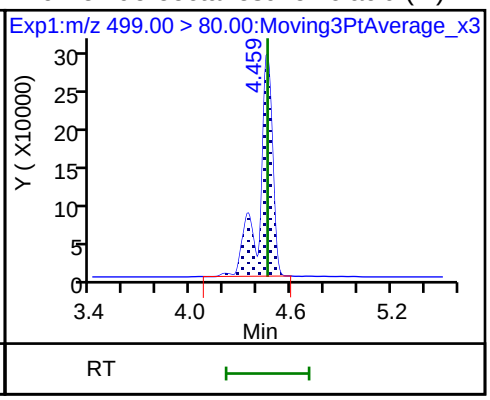
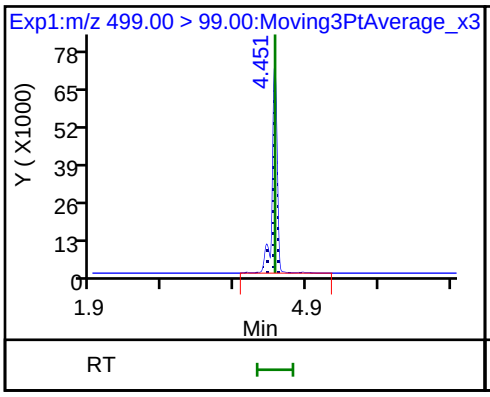


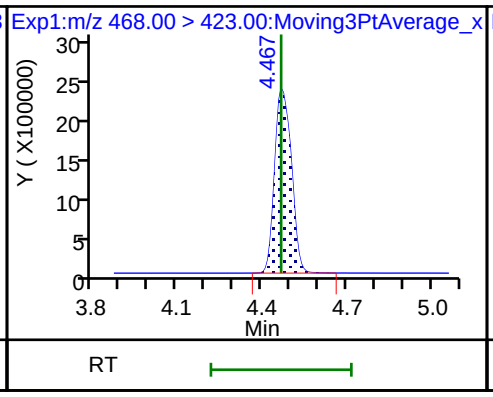
29 Perfluorooctanesulfonic acid (M)



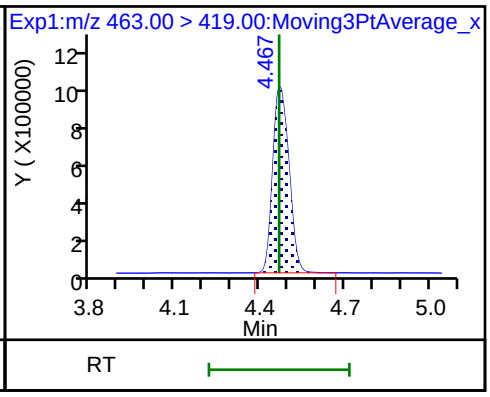
29 Perfluorooctanesulfonic acid



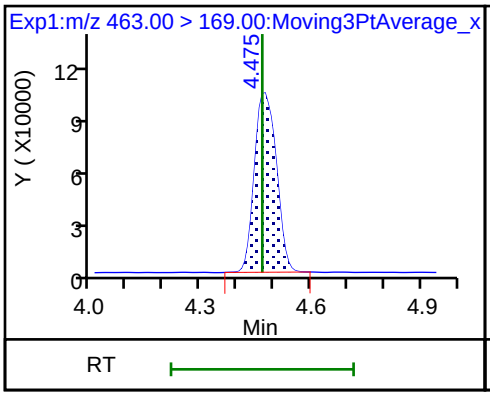
D 30 13C5 PFNA



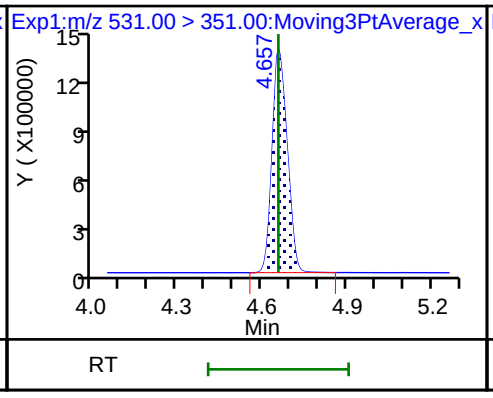
31 Perfluorononanoic acid



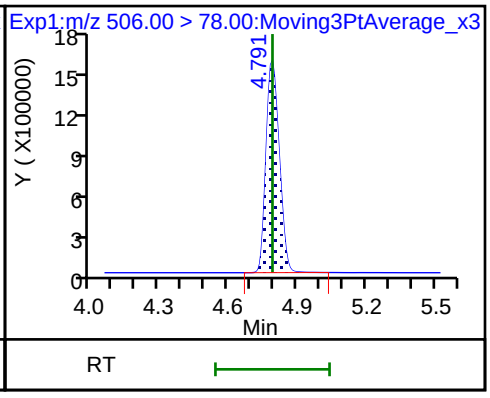
31 Perfluorononanoic acid



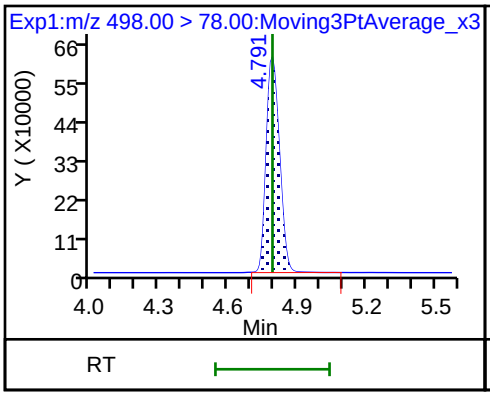
32 9ClFOS



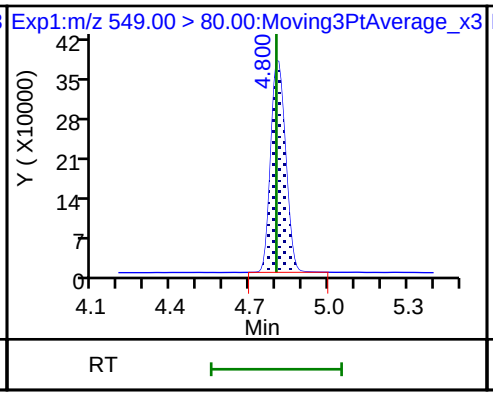
D 33 13C8 FOSA



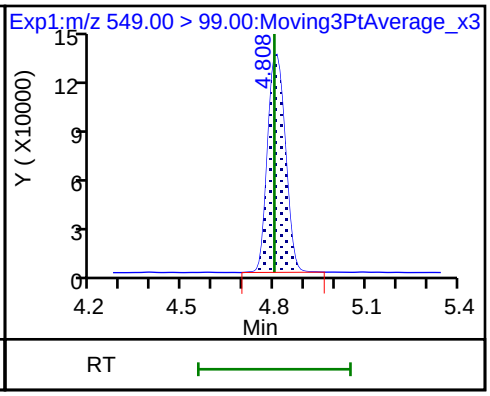
34 Perfluorooctanesulfonamide



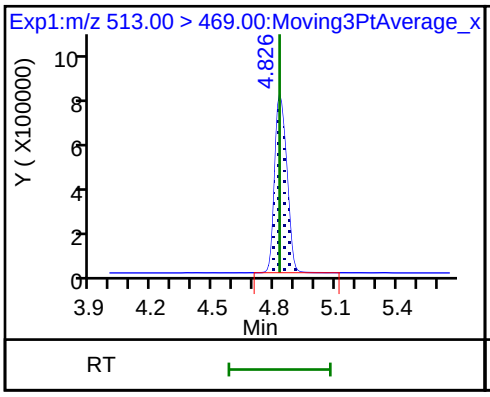
35 Perfluorononanesulfonic acid



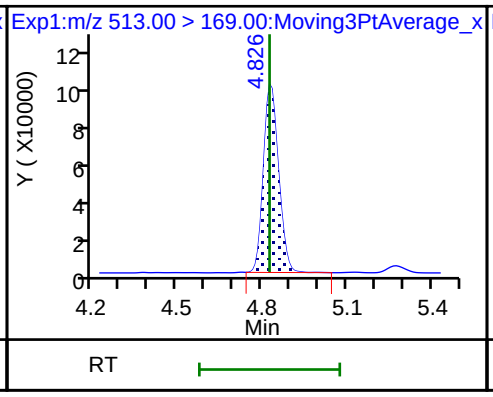
35 Perfluorononanesulfonic acid



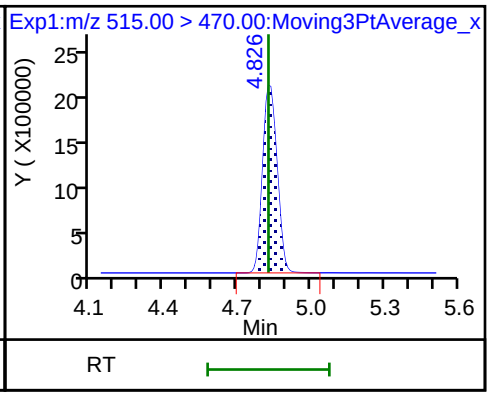
37 Perfluorodecanoic acid



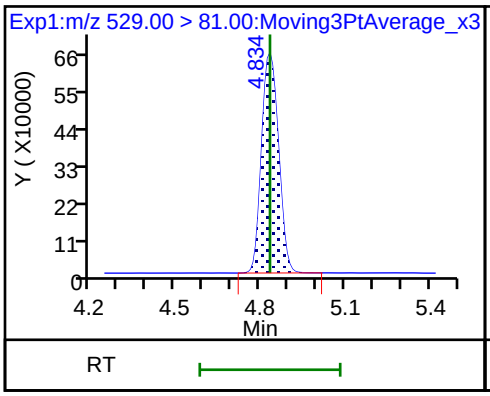
37 Perfluorodecanoic acid



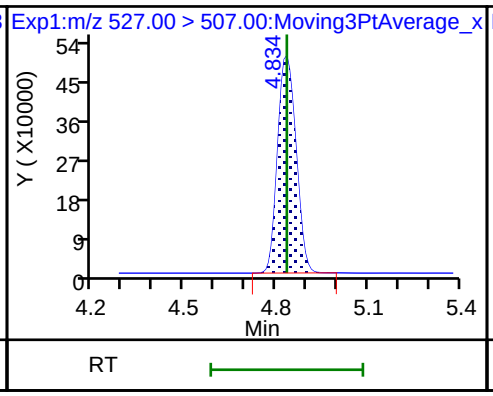
D 39 13C2 PFDA



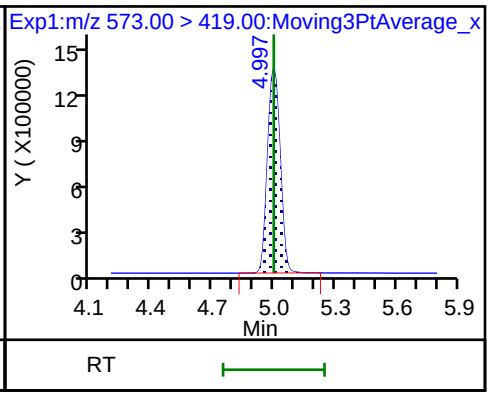
D 38 M2-8:2 FTS



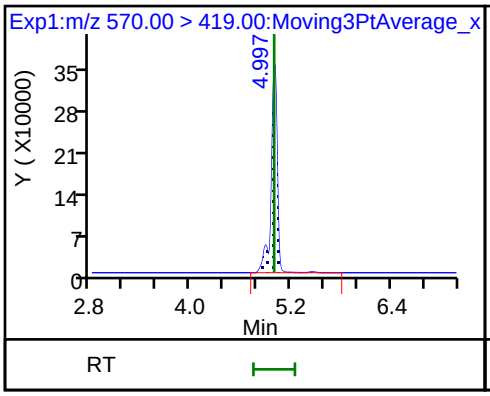
36 8:2 FTS



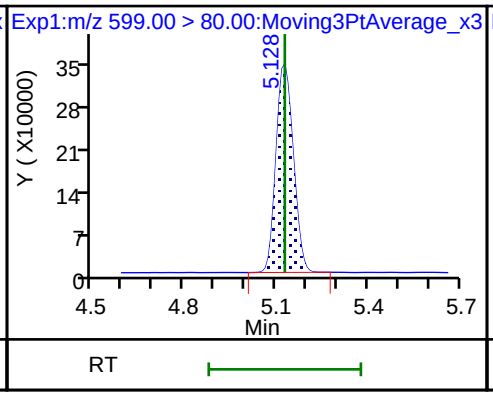
D 40 d3-NMeFOSAA



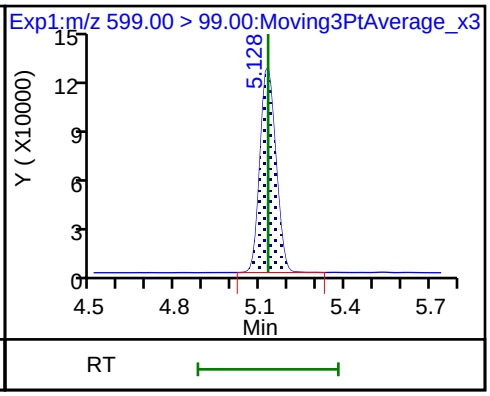
41 NMeFOSAA



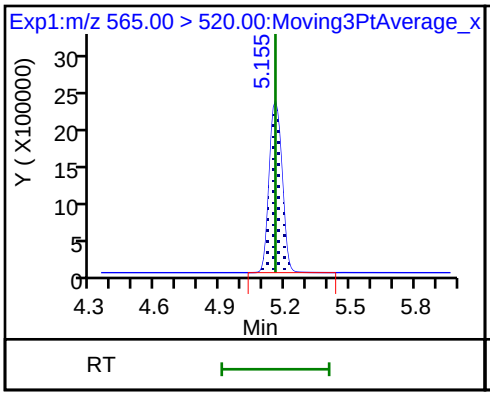
42 Perfluorodecanesulfonic acid



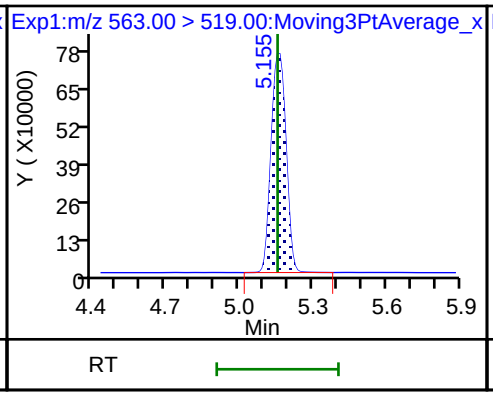
42 Perfluorodecanesulfonic acid



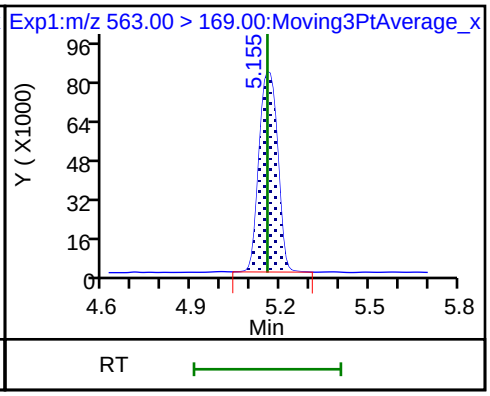
D 43 13C2 PFUnA



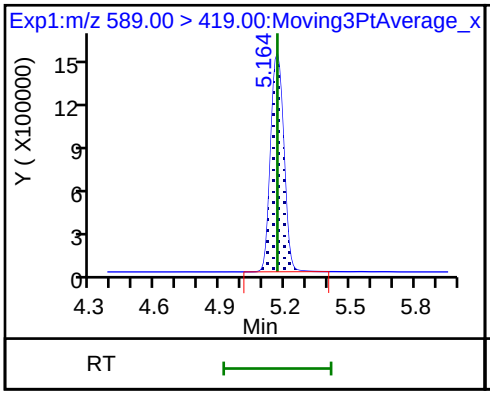
45 Perfluoroundecanoic acid



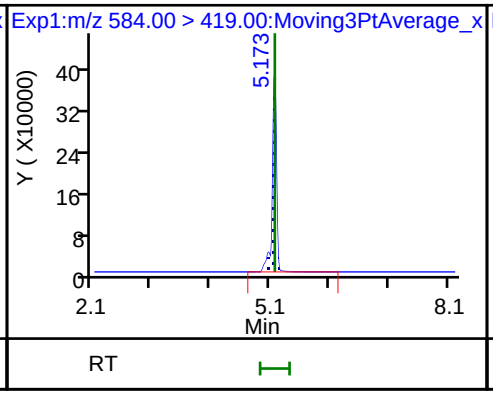
45 Perfluoroundecanoic acid



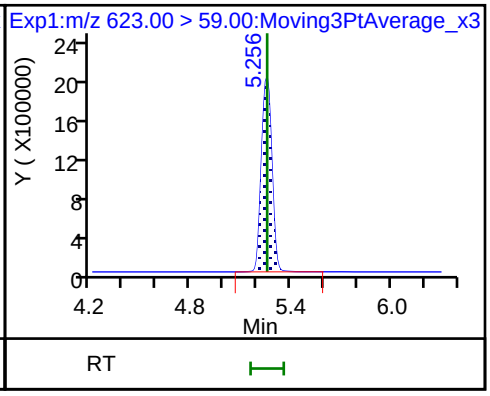
D 44 d5-NEtFOSAA



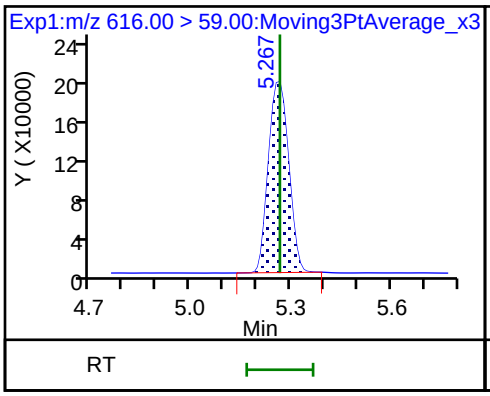
46 NEtFOSA



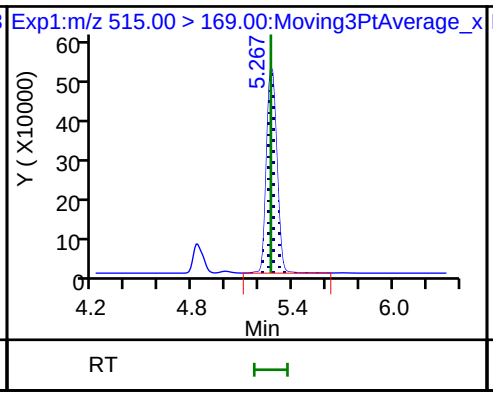
D 47 d7-N-MeFOSE-M



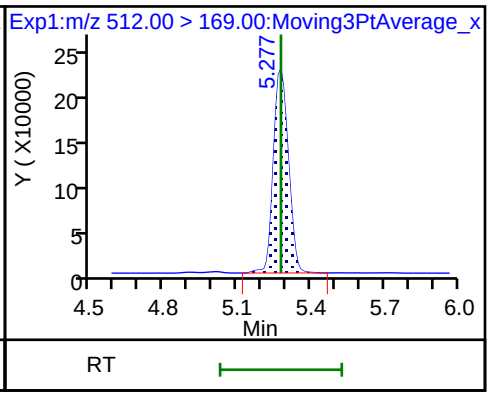
48 N-MeFOSE-M



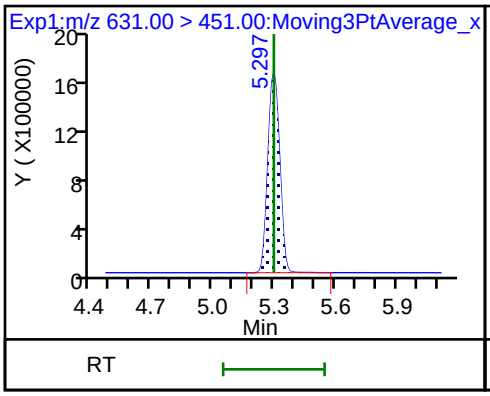
D 49 d-N-MeFOSA-M



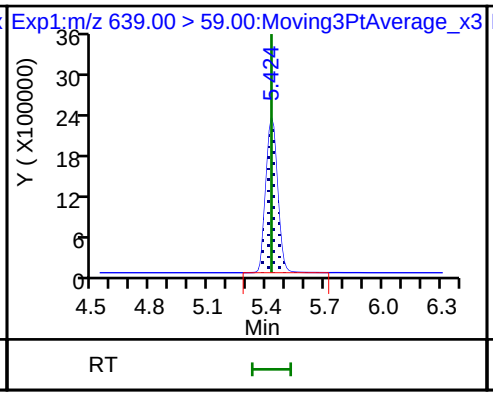
50 NMeFOSA



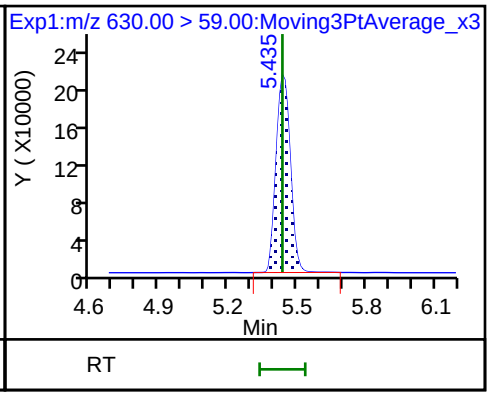
51 11ClFOS



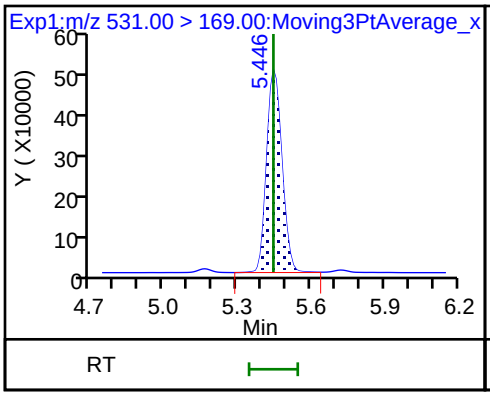
D 52 d9-N-EtFOSE-M



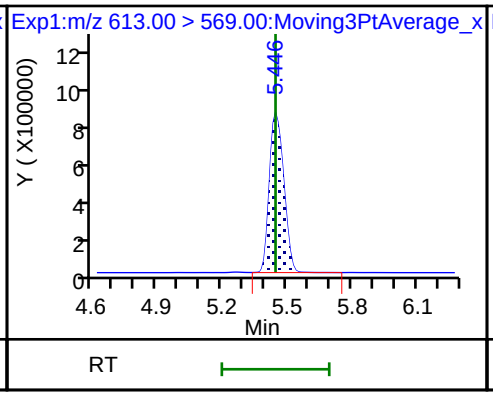
53 N-EtFOSE-M



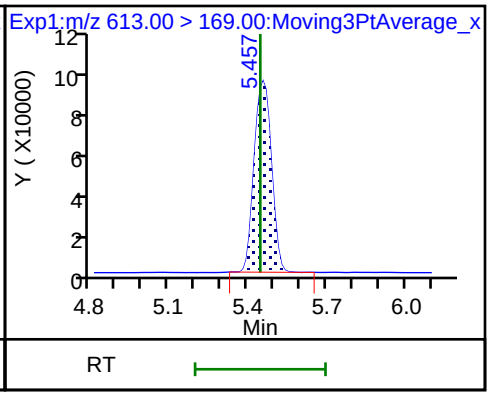
D 54 d-N-EtFOSA-M



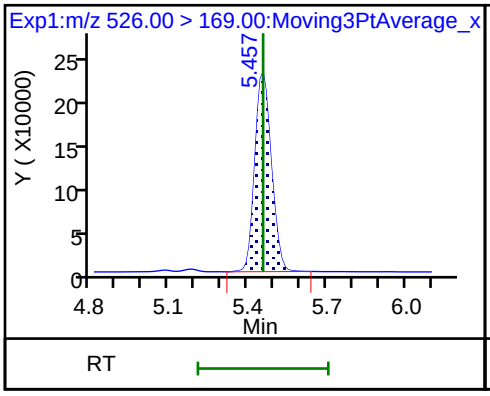
57 Perfluorododecanoic acid



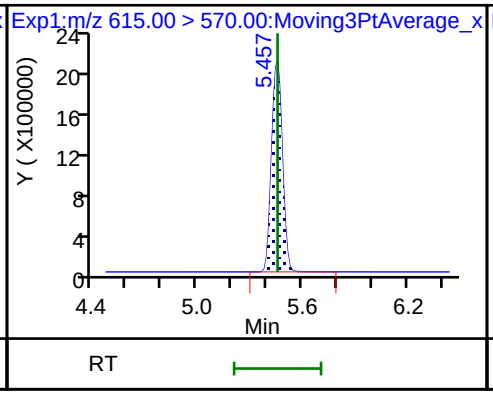
57 Perfluorododecanoic acid



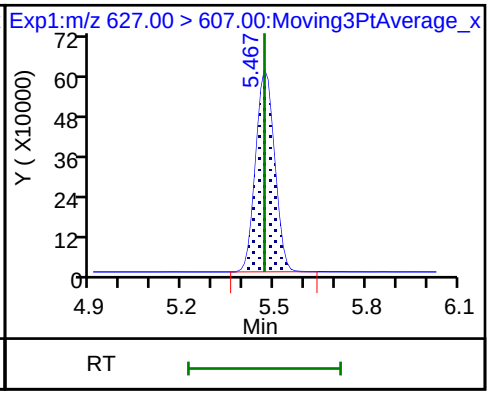
55 N-EtFOSA-M



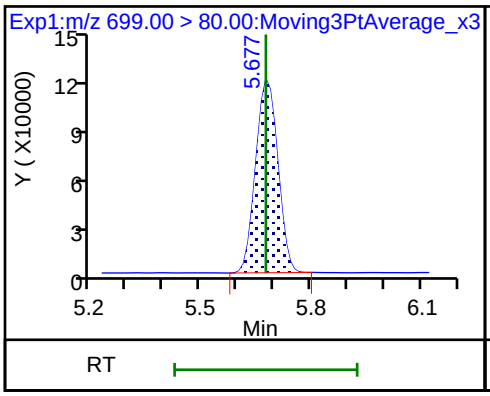
D 56 13C2 PFDoA



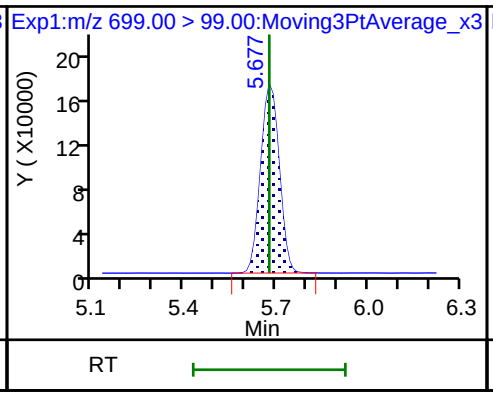
58 10:2 FTS



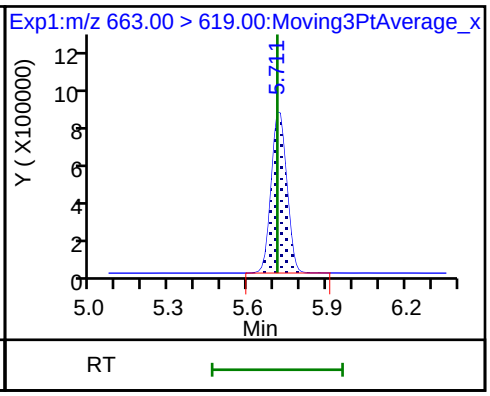
59 PFDoS



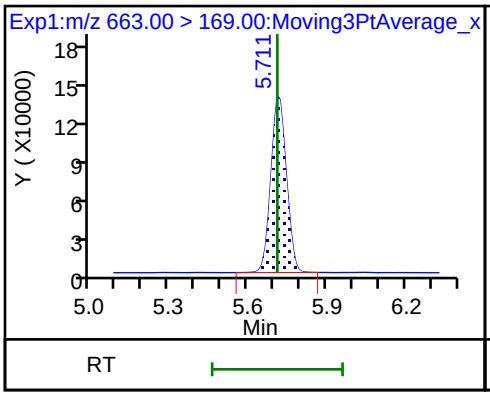
59 PFDoS



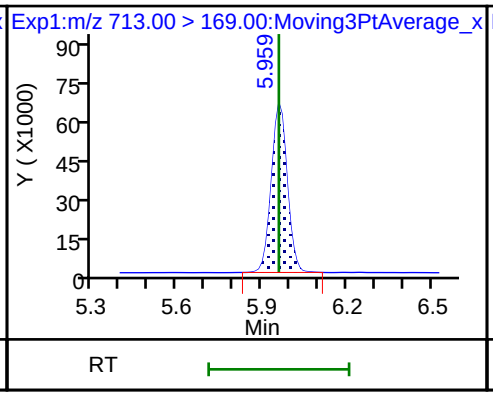
60 Perfluorotridecanoic acid



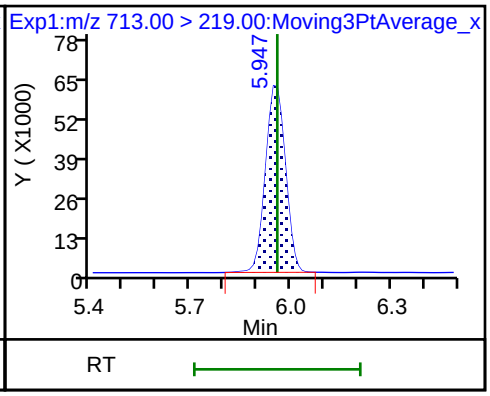
60 Perfluorotridecanoic acid



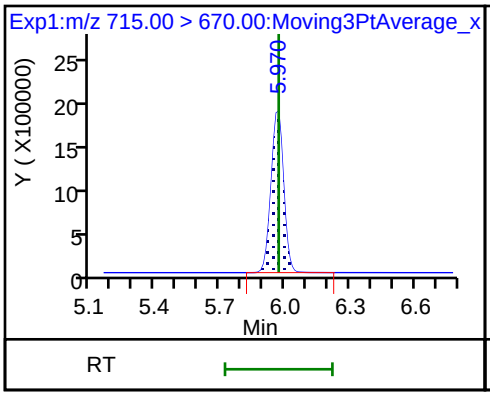
62 Perfluorotetradecanoic acid



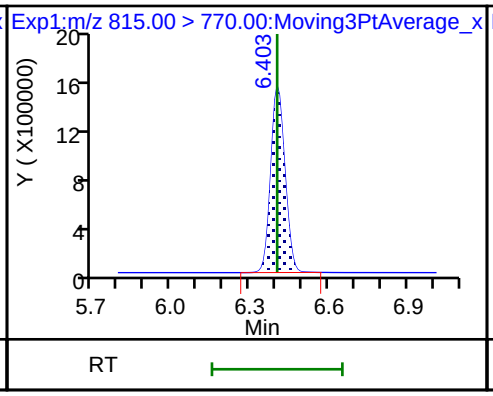
62 Perfluorotetradecanoic acid



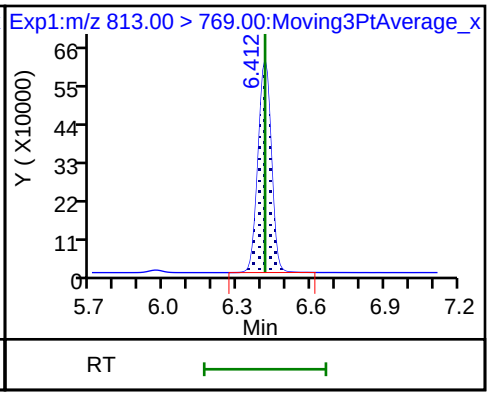
D 61 13C2 PFTeDA



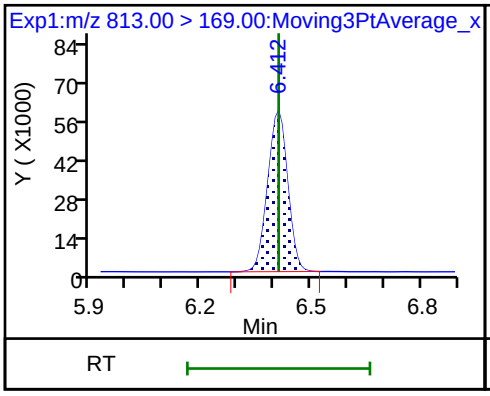
D 64 13C2 PFHxDA



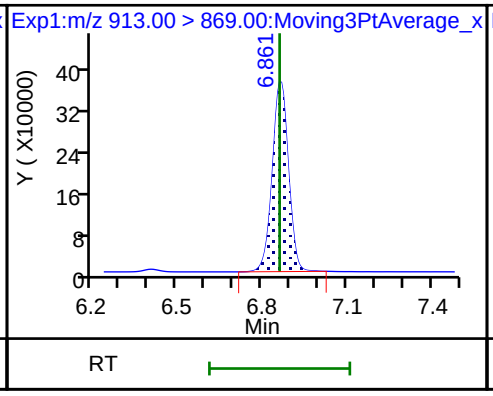
63 Perfluorohexadecanoic acid



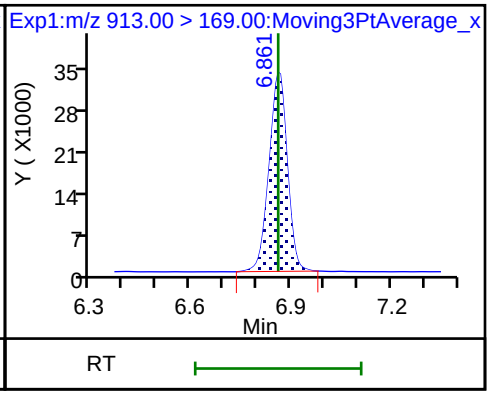
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

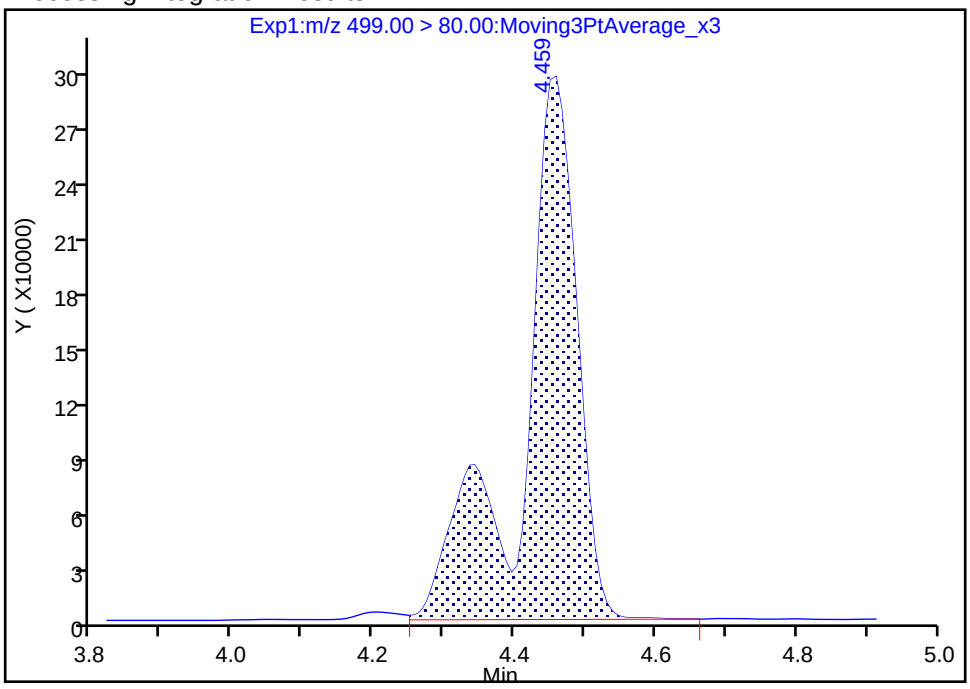
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_018.d
Injection Date: 10-Sep-2020 12:54:15 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

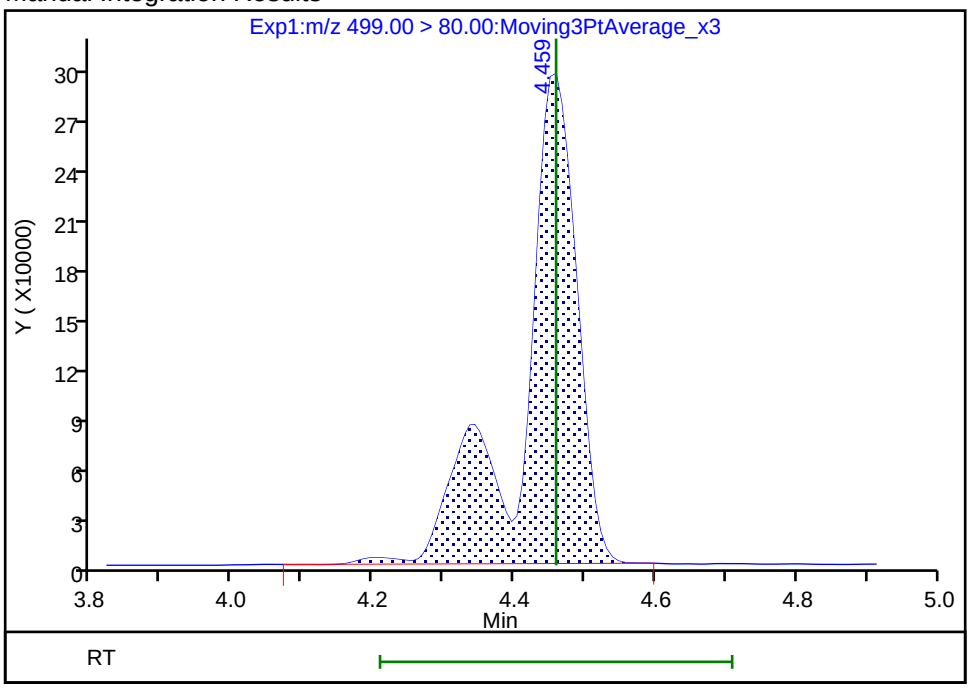
Processing Integration Results

RT: 4.46
Area: 1598455
Amount: 1.016779
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 1601488
Amount: 1.018708
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:21:55
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411087/1 Calibration Date: 09/10/2020 15:02

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_A_073.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.9230		1.06	1.00	6.3	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.064		1.07	1.00	6.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.058		0.926	0.884	4.8	50.0
4:2 FTS	AveID	2.273	2.524		1.04	0.934	11.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	1.001		1.04	1.00	3.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.8373		0.991	0.938	5.7	50.0
HFPO-DA (GenX)	AveID	0.9742	1.051		1.08	1.00	7.9	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	1.122		1.11	1.00	10.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.132		0.872	0.910	-4.2	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	10.26		1.01	0.942	7.0	50.0
6:2 FTS	AveID	2.299	2.283		0.942	0.948	-0.7	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.170		0.997	0.952	4.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.167		1.15	1.00	14.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.129		1.01	0.928	9.0	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	1.007		1.05	1.00	5.0	40.0
F-53B Major	AveID	3.236	3.372		0.971	0.932	4.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9635		1.04	1.00	3.5	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	0.9911		1.02	0.960	5.8	50.0
8:2 FTS	AveID	1.775	1.949		1.05	0.958	9.8	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.8479		0.880	1.00	-12.0	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.7530		1.02	1.00	1.5	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.8813		1.02	0.964	5.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.6701		0.925	1.00	-7.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.7098		1.05	1.00	5.0	40.0
NMeFOSE	AveID	1.080	1.288		1.19	1.00	19.3	40.0
NMeFOSA	AveID	0.9606	1.076		1.12	1.00	12.1	50.0
F-53B Minor	AveID	4.102	4.332		0.995	0.942	5.6	50.0
NEtFOSE	AveID	1.073	1.126		1.05	1.00	5.0	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.9900		0.974	1.01	-3.2	40.0
NEtFOSA	AveID	1.058	1.177		1.11	1.00	11.2	40.0
10:2 FTS	AveID	2.014	2.393		1.15	0.964	18.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3263		0.949	0.968	-2.0	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411087/1 Calibration Date: 09/10/2020 15:02

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_A_073.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	1.204		1.28	1.00	28.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.1103		1.31	1.00	30.7	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9462		1.06	1.00	5.5	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.7669		1.16	1.00	16.1	50.0
13C4 PFBA	Ave	1.585	1.599		2.52	2.50	0.8	50.0
13C5 PFPeA	Ave	1.233	1.173		2.38	2.50	-4.9	50.0
13C3 PFBS	Ave	0.9684	1.081		2.60	2.33	11.6	50.0
M2-4:2 FTS	Ave	0.2333	0.2365		2.37	2.34	1.4	50.0
13C2 PFHxA	Ave	1.231	1.313		2.67	2.50	6.6	50.0
13C3 HFPO-DA	Ave	0.2518	0.2510		2.49	2.50	-0.3	50.0
13C4 PFHpA	Ave	1.051	1.099		2.61	2.50	4.6	50.0
18O2 PFHxS	Ave	0.5117	0.5758		2.66	2.37	12.5	50.0
M2-6:2 FTS	Ave	0.1958	0.2093		2.54	2.38	6.9	50.0
13C4 PFOA	Ave	1.001	1.004		2.51	2.50	0.3	50.0
13C4 PFOS	Ave	0.3465	0.3785		2.61	2.39	9.2	50.0
13C5 PFNA	Ave	0.8063	0.9449		2.93	2.50	17.2	50.0
13C8 FOSA	Ave	0.5590	0.6151		2.75	2.50	10.0	50.0
13C2 PFDA	Ave	0.7829	0.9176		2.93	2.50	17.2	50.0
M2-8:2 FTS	Ave	0.2823	0.2843		2.41	2.40	0.7	50.0
d3-NMeFOSAA	Ave	0.5255	0.5668		2.70	2.50	7.9	50.0
13C2 PFUnA	Ave	0.7758	0.9369		3.02	2.50	20.8	50.0
d5-NEtFOSAA	Ave	0.5556	0.6047		2.72	2.50	8.8	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1651		14.9	12.5	19.3	50.0
d-N-MeFOSA-M	Ave	0.1965	0.2192		2.79	2.50	11.5	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1985		14.6	12.5	16.8	50.0
13C2 PFDoA	Ave	0.7650	0.8634		2.82	2.50	12.9	50.0
d-N-EtFOSA-M	Ave	0.2011	0.2078		2.58	2.50	3.3	50.0
13C2 PFTeDA	Ave	0.6311	0.6729		2.67	2.50	6.6	50.0
13C2 PFHxDA	Ave	0.4618	0.5246		2.84	2.50	13.6	50.0
13C8 PFOA	Ave	0.6756	0.8119		2.94	2.45	20.2	50.0
13C8 PFOS	Ave	0.1082	0.1184		2.62	2.39	9.5	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 10-Sep-2020 15:02:11 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:42:21 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1040

First Level Reviewer: sanjumnair Date: 11-Sep-2020 08:42:21
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.557	2.557	0.0	0.626	16220054	2.52		101	7780	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.557	2.557	0.0	1.000	5988481	1.06		106	306	
D 4 13C5 PFPeA										
267.90 > 223.00	2.909	2.909	0.0	0.713	11896289	2.38		95.1	4054	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.909	2.909	0.0	1.000	5061483	1.07		107	224	
D 9 13C3 PFBS										
301.90 > 80.00	2.940	2.940	0.0	0.720	10197568	2.59		112	5038	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.940	2.940	0.0	1.000	4101533	0.9261	Target=2.30	105	879	
298.90 > 99.00	2.940	2.940	0.0	1.000	1785239		2.30(1.15-3.45)		591	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.238	3.238	0.0	0.793	2241357	2.37		101	1019	
8 4:2 FTS										
327.00 > 307.00	3.238	3.238	0.0	1.000	2262698	1.04		111	8331	
D 11 13C2 PFHxA										
315.00 > 270.00	3.278	3.278	0.0	0.803	13316684	2.67		107	7278	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.288	3.288	0.0	1.003	5332717	1.04	Target=13.78	104	356	
313.00 > 119.00	3.288	3.288	0.0	1.003	399497		13.35(6.89-20.66)		219	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.298	3.298	0.0	1.122	3444896	0.99	Target=3.02	106	715	
349.00 > 99.00	3.298	3.298	0.0	1.122	1160363		2.97(1.51-4.52)		657	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.405	3.405	0.0	0.834	2546827	2.49		99.7	3737	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 HPFO-DA										
285.00 > 169.00	3.405	3.405	0.0	1.000	1070625	1.08		108	2686	
D 18 13C4 PFHpA										
367.00 > 322.00	3.691	3.691	0.0	0.904	11148005	2.61		105	7753	
D 17 18O2 PFHxS										
403.00 > 84.00	3.691	3.691	0.0	0.904	5527056	2.66		113	5817	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.691	3.691	0.0	1.000	2408297	0.8722	Target=3.50	95.8	1131	
399.00 > 99.00	3.691	3.691	0.0	1.000	719597		3.35(1.75-5.25)		469	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.691	3.691	0.0	1.000	5005088	1.11	Target=3.84	111	559	
363.00 > 169.00	3.691	3.691	0.0	1.000	1234615		4.05(1.92-5.76)		783	
19 DONA										
377.00 > 251.00	3.740	3.740	0.0	0.841	14840088	1.01	Target=2.42	107	6574	
377.00 > 85.00	3.740	3.740	0.0	0.841	6200096		2.39(1.21-3.63)		3853	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.058	4.058	0.0	0.994	2017285	2.54		107	1364	
21 6:2 FTS										
427.00 > 407.00	4.058	4.058	0.0	1.000	1838530	0.9416		99.3	1823	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.074	4.074	0.0	0.916	1711639	1.00	Target=4.40	105	693	
449.00 > 99.00	4.074	4.074	0.0	0.916	403749		4.24(2.20-6.60)		456	
D 25 13C4 PFOA										
417.00 > 372.00	4.082	4.082	0.0	1.000	10187699	2.51		100	4870	
* 23 13C2 PFOA										
415.00 > 370.00	4.082	4.082	0.0		10146011	2.50			6079	
$ 26 13C8 PFOA										
421.00 > 376.00	4.082	4.082	0.0	1.000	8065010	2.94		120	6335	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.082	4.082	0.0	1.000	4760824	1.14	Target=2.94	114	702	
413.00 > 169.00	4.082	4.082	0.0	1.000	1583021		3.01(1.47-4.41)		3846	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.446	4.446	0.0	1.000	1608900	1.01	Target=4.53	109	665	M
499.00 > 99.00	4.446	4.446	0.0	1.000	354044		4.54(2.26-6.79)		12663	
D 27 13C4 PFOS										
503.00 > 80.00	4.446	4.446	0.0	1.089	3671440	2.61		109	1450	
$ 28 13C8 PFOS										
507.00 > 99.00	4.446	4.446	0.0	1.089	1148833	2.62		109	2452	
31 Perfluorononanoic acid										
463.00 > 419.00	4.470	4.470	0.0	1.002	3869061	1.05	Target=8.97	105	688	
463.00 > 169.00	4.462	4.470	-0.008	1.000	458164		8.44(4.48-13.45)		688	
D 30 13C5 PFNA										
468.00 > 423.00	4.462	4.462	0.0	1.093	9587243	2.93		117	7898	
32 9ClFOS										
531.00 > 351.00	4.647	4.647	0.0	1.045	4827595	0.9712		104	4394	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.172	6241246	2.75		110	5452	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.794	4.794	0.0	1.078	1461593	1.02	Target=2.85	106	982	
549.00 > 99.00	4.794	4.794	0.0	1.078	524604		2.79(1.43-4.28)		868	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.000	2405332	1.04		104	4764	
D 39 13C2 PFDA										
515.00 > 470.00	4.820	4.820	0.0	1.181	9310095	2.93		117	11269	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.820	4.820	0.0	1.000	3157727	0.8797	Target=10.16	88.0	890	
513.00 > 169.00	4.811	4.820	-0.009	0.998	357534		8.83(5.08-15.24)		201	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.820	4.820	0.0	1.181	2763039	2.41		101	1764	
36 8:2 FTS										
527.00 > 507.00	4.820	4.820	0.0	1.000	2153640	1.05		110	4377	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.978	4.978	0.0	1.219	5750582	2.70		108	2801	
41 NMeFOSAA										
570.00 > 419.00	4.989	4.989	0.0	1.002	1732082	1.02		102	1132	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.112	5.112	0.0	1.150	1305105	1.02	Target=2.77	106	978	
599.00 > 99.00	5.112	5.112	0.0	1.150	457395		2.85(1.38-4.15)		1104	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.148	5.148	0.0	1.002	2550679	0.9249	Target=8.43	92.4	1164	
563.00 > 169.00	5.139	5.148	-0.009	1.000	302001		8.45(4.22-12.65)		414	
D 43 13C2 PFUnA										
565.00 > 520.00	5.139	5.139	0.0	1.259	9505889	3.02		121	8640	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.148	5.148	0.0	1.261	6135640	2.72		109	3093	
46 NEtFOSA										
584.00 > 419.00	5.157	5.157	0.0	1.002	1742104	1.05		105	1746	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.240	5.240	0.0	1.284	8376518	14.9		119	3780	
48 N-MeFOSE-M										
616.00 > 59.00	5.249	5.249	0.0	1.002	863269	1.19		119	1138	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.259	5.259	0.0	1.288	2224078	2.79		112	51.3	
51 11ClFOS										
631.00 > 451.00	5.280	5.280	0.0	1.187	6268327	0.99		106	6875	
50 NMeFOSA										
512.00 > 169.00	5.270	5.270	0.0	1.002	957598	1.12		112	538	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.416	5.416	0.0	1.327	10068793	14.6		117	3607	
D 56 13C2 PFDoA										
615.00 > 570.00	5.437	5.437	0.0	1.332	8760534	2.82		113	6695	
53 N-EtFOSE-M										
630.00 > 59.00	5.426	5.426	0.0	1.002	907022	1.05		105	1272	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.437	5.437	0.0	1.000	3490135	0.9740	Target=9.12	96.8	1274	
613.00 > 169.00	5.437	5.437	0.0	1.000	421709		8.28(4.56-13.69)		903	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.437	5.437	0.0	1.332	2107990	2.58		103	264	
55 N-EtFOSA-M										
526.00 > 169.00	5.448	5.448	0.0	1.002	992154	1.11		111	341	
58 10:2 FTS										
627.00 > 607.00	5.459	5.459	0.0	1.133	2661075	1.15		119	3931	
59 PFDoS										
699.00 > 80.00	5.667	5.667	0.0	1.275	485147	0.9487	Target=0.72	98.0	540	
699.00 > 99.00	5.667	5.667	0.0	1.275	679869		0.71(0.36-1.07)		1468	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.701	5.701	0.0	1.049	4219612	1.28	Target=6.78	128	2207	
663.00 > 169.00	5.701	5.701	0.0	1.049	578718		7.29(3.39-10.17)		917	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.948	5.948	0.0	1.000	301506	1.31	Target=0.85	131	1377	
713.00 > 219.00	5.937	5.948	-0.011	0.998	302440		1.00(0.43-1.28)		1928	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.948	5.948	0.0	1.457	6827275	2.67		107	10156	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.377	6.377	0.0	1.562	5322160	2.84		114	5983	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.386	6.386	0.0	1.001	2014403	1.05	Target=10.21	105	1394	
813.00 > 169.00	6.386	6.386	0.0	1.001	202085		9.97(5.11-15.32)		1223	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.835	6.835	0.0	1.072	1632584	1.16	Target=12.45	116	1606	
913.00 > 169.00	6.829	6.835	-0.006	1.071	134838		12.11(6.22-18.67)		1137	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 08:42:21 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d

Injection Date: 10-Sep-2020 15:02:11 Instrument ID: A18

Lims ID: CCV L4

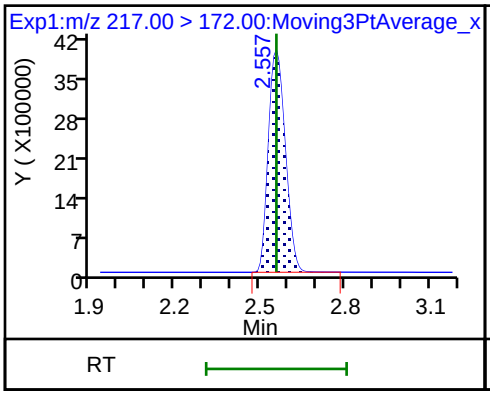
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 1

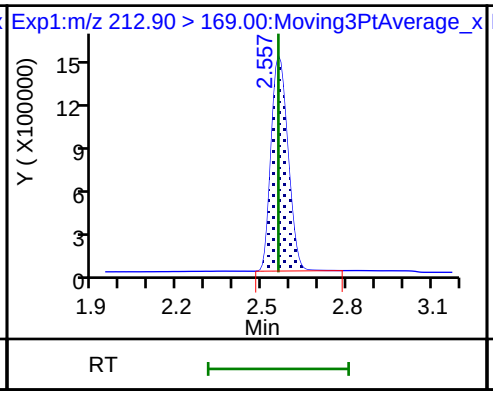
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

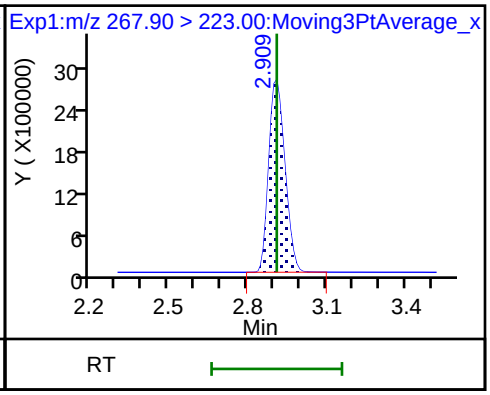
D 1 13C4 PFBA



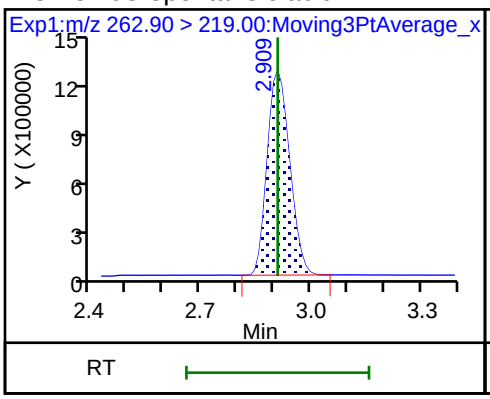
2 Perfluorobutanoic acid



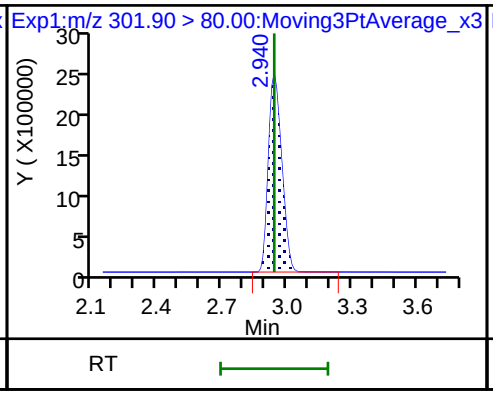
D 4 13C5 PFPeA



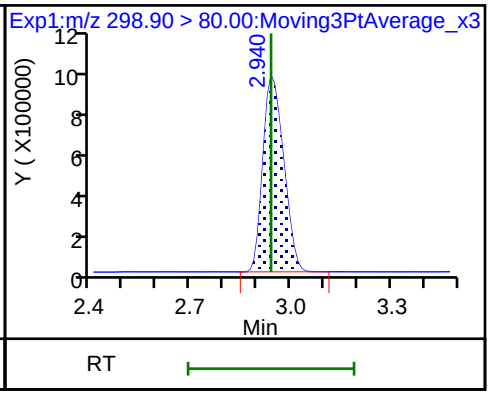
5 Perfluoropentanoic acid



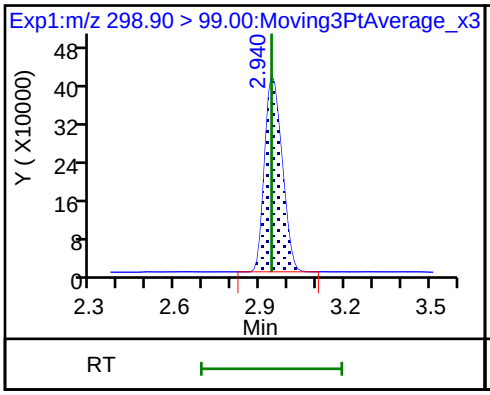
D 9 13C3 PFBS



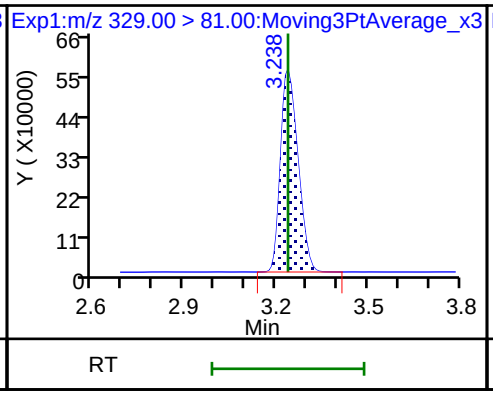
6 Perfluorobutanesulfonic acid



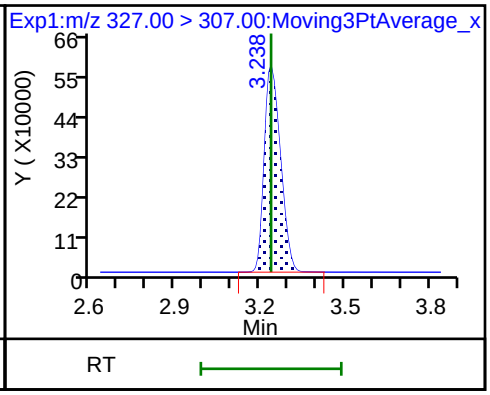
6 Perfluorobutanesulfonic acid



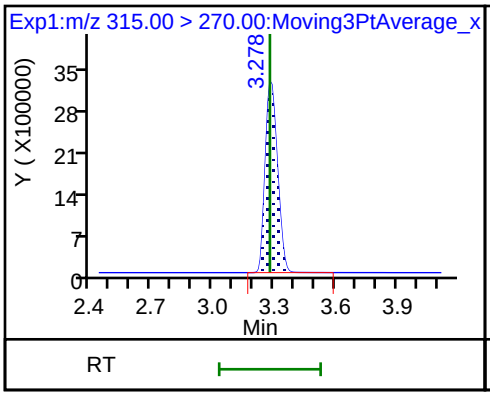
D 7 M2-4:2 FTS



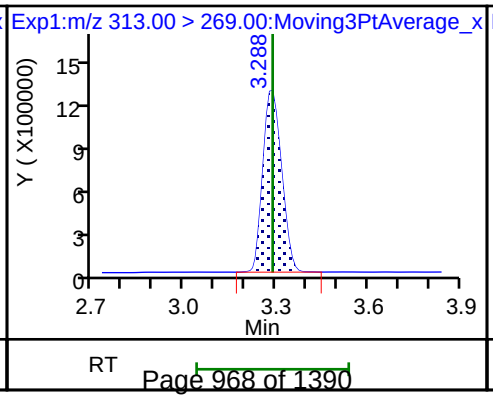
8 4:2 FTS



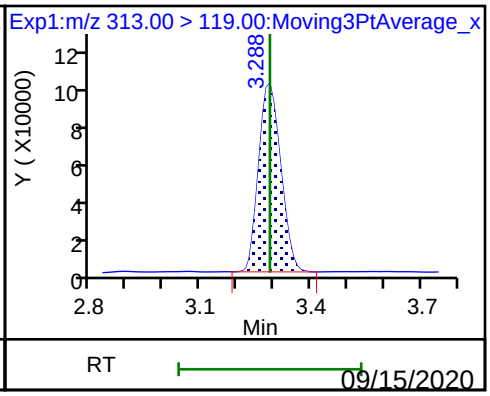
D 11 13C2 PFHxA



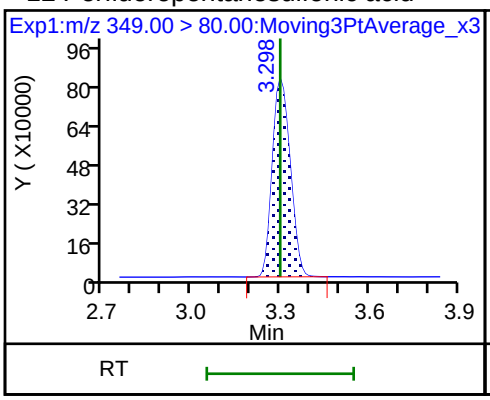
10 Perfluorohexanoic acid



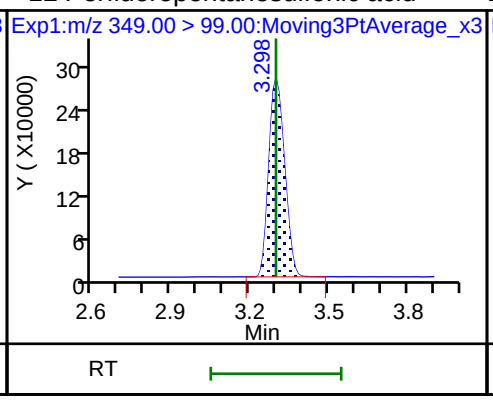
10 Perfluorohexanoic acid



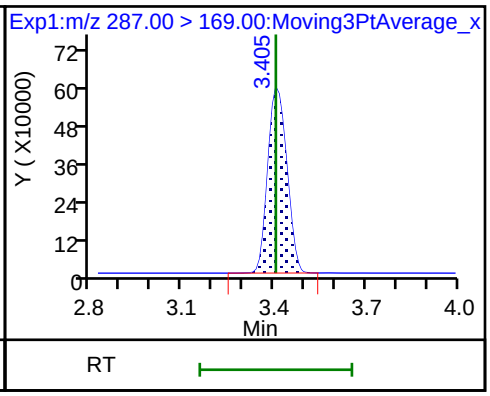
12 Perfluoropentanesulfonic acid



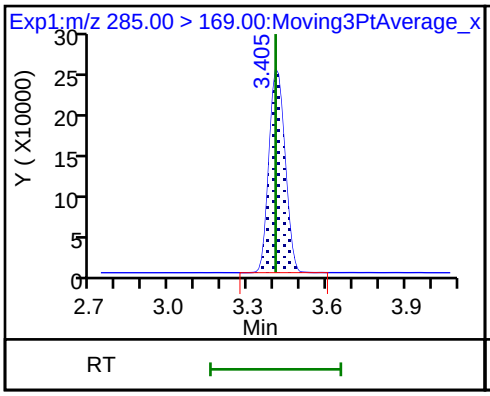
12 Perfluoropentanesulfonic acid



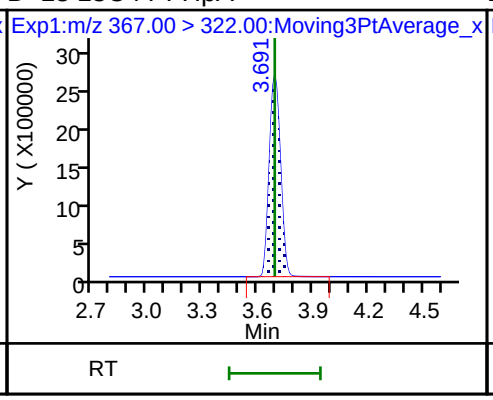
D 14 13C3 HFPO-DA



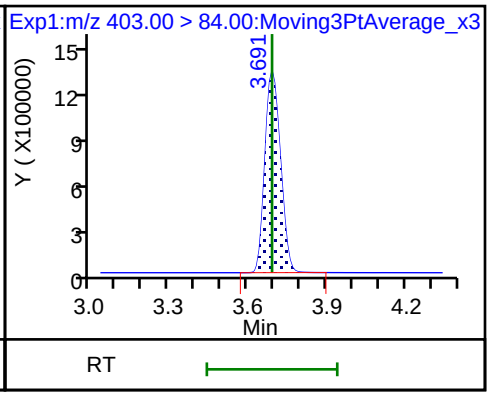
13 HPFO-DA



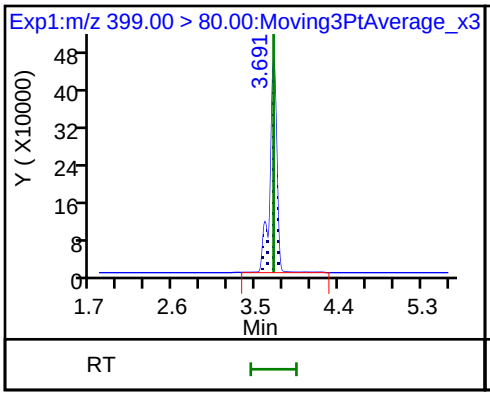
D 18 13C4 PFHpA



D 17 18O2 PFHxS



15 Perfluorohexanesulfonic acid



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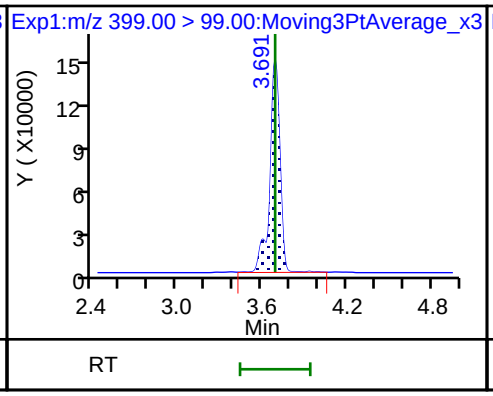
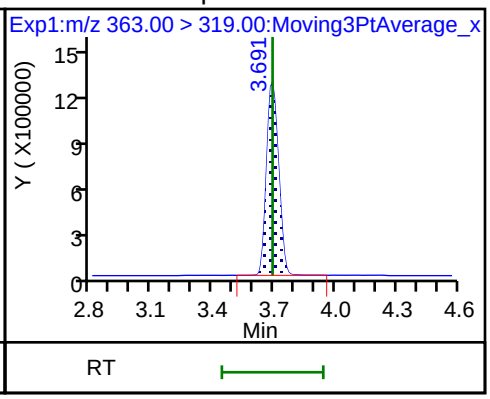
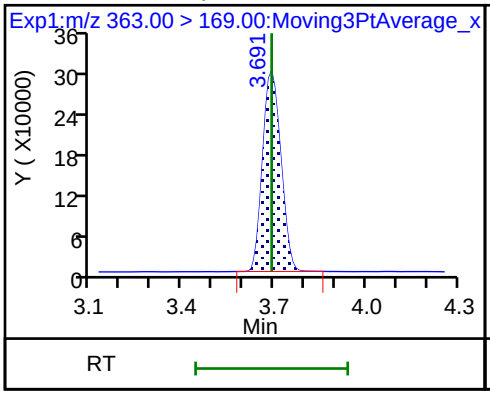


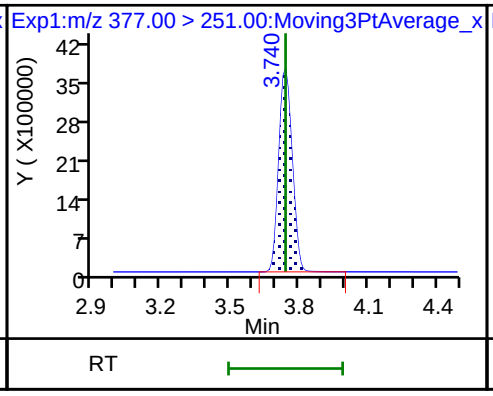
16 Perfluoroheptanoic acid



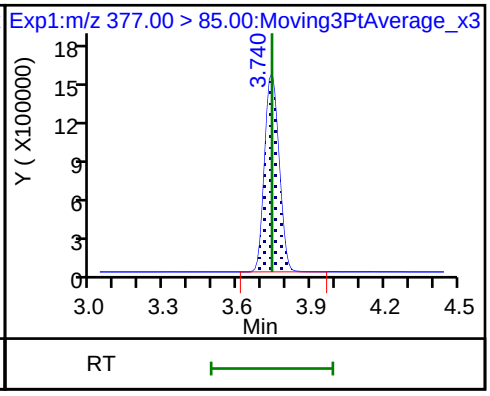
16 Perfluoroheptanoic acid



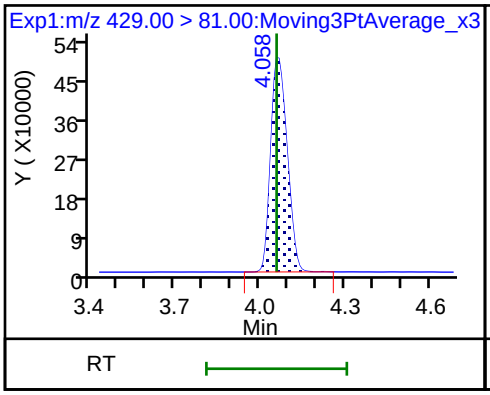
19 DONA



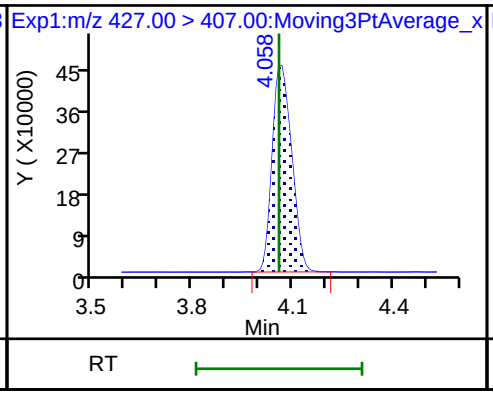
19 DONA



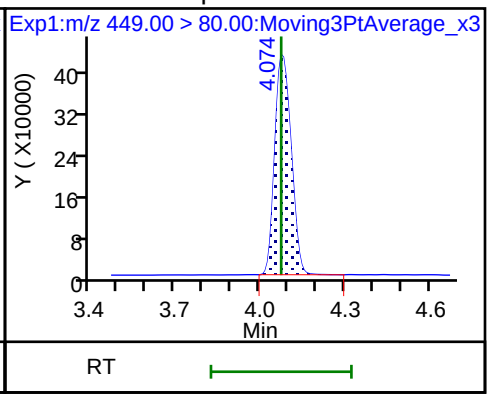
D 20 M2-6:2 FTS



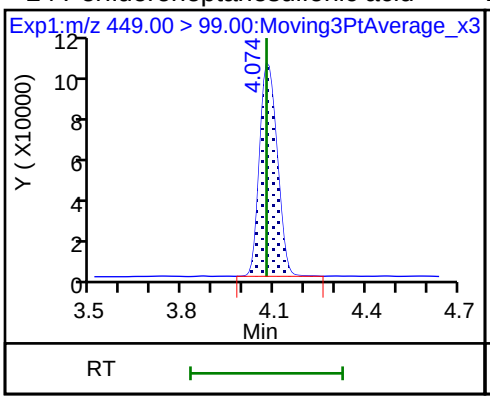
21 6:2 FTS



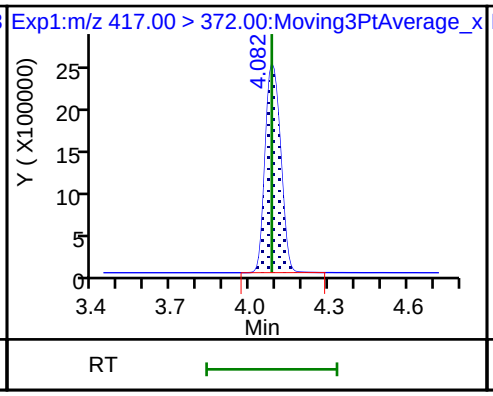
24 Perfluoroheptanesulfonic acid



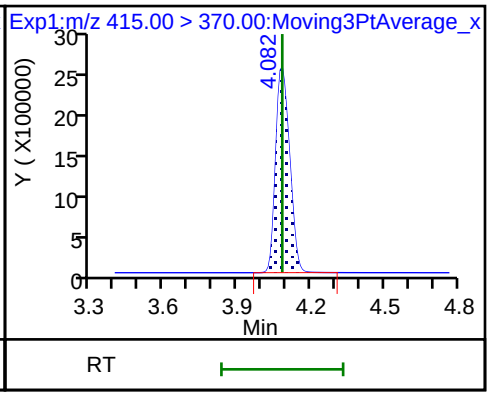
24 Perfluoroheptanesulfonic acid



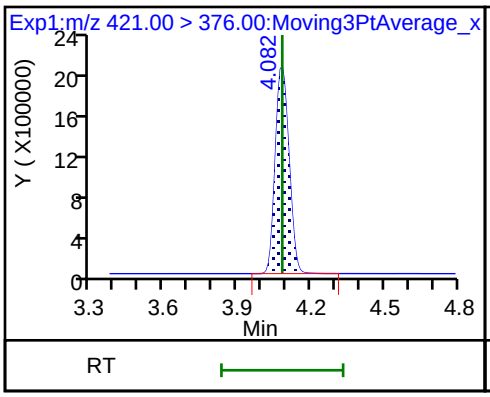
D 25 13C4 PFOA



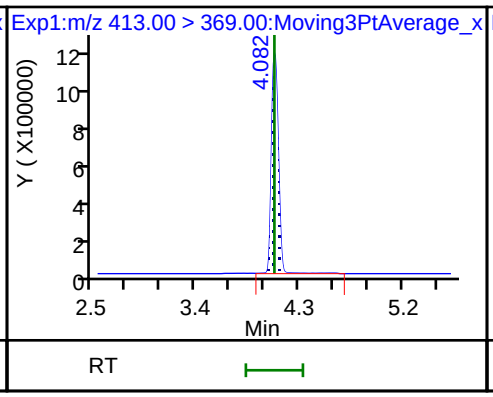
* 23 13C2 PFOA



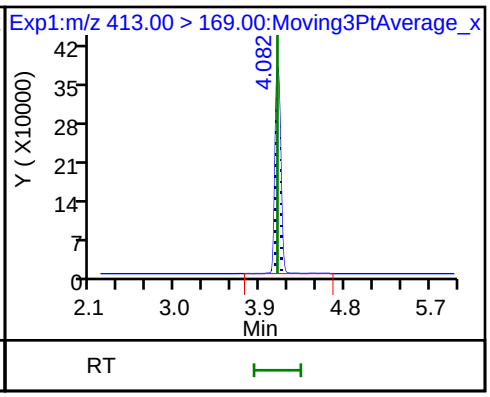
$ 26 13C8 PFOA



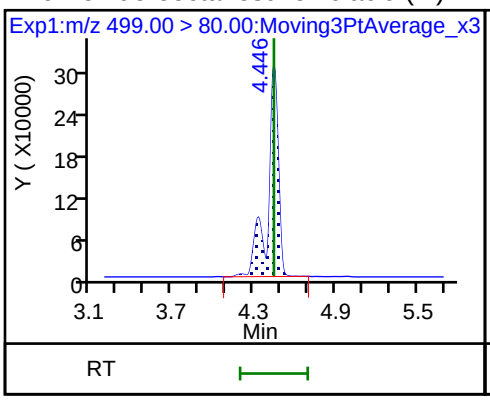
22 Perfluorooctanoic acid



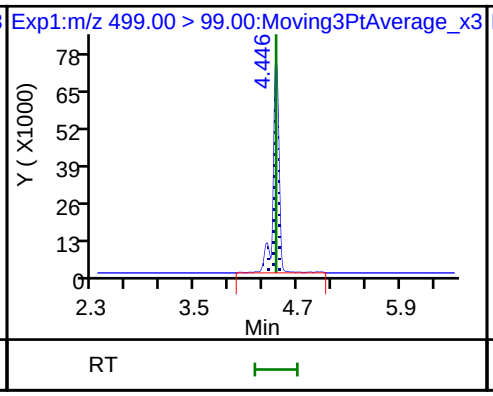
22 Perfluorooctanoic acid



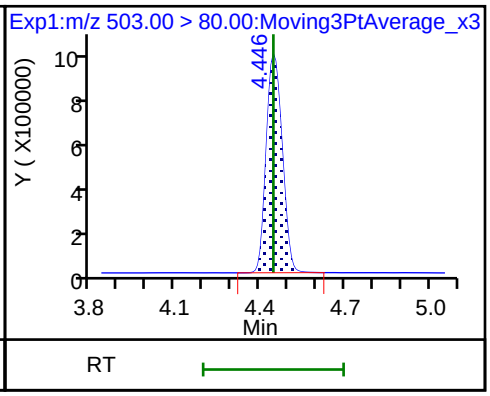
29 Perfluorooctanesulfonic acid (M)



29 Perfluorooctanesulfonic acid



D 27 13C4 PFOS



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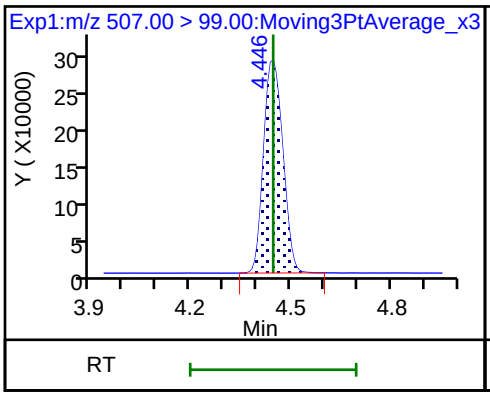
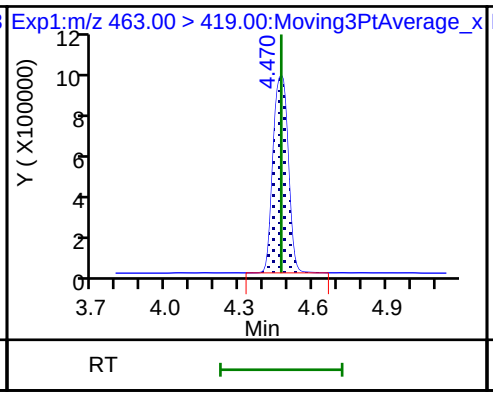
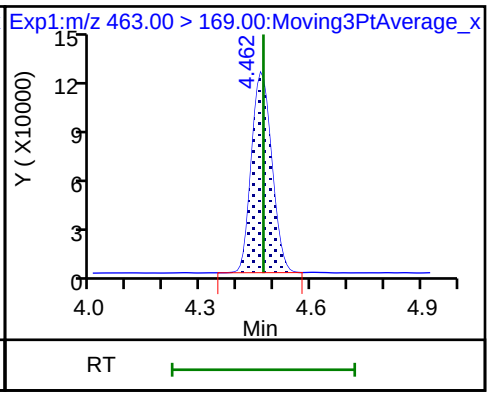


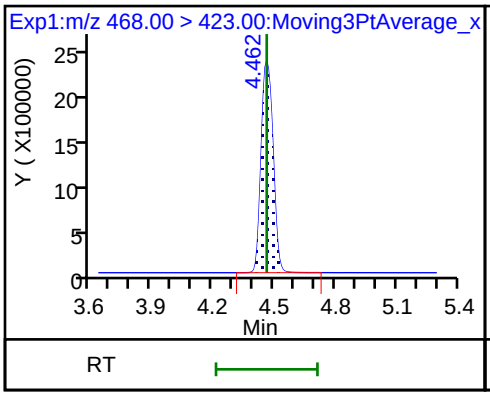
31 Perfluorononanoic acid



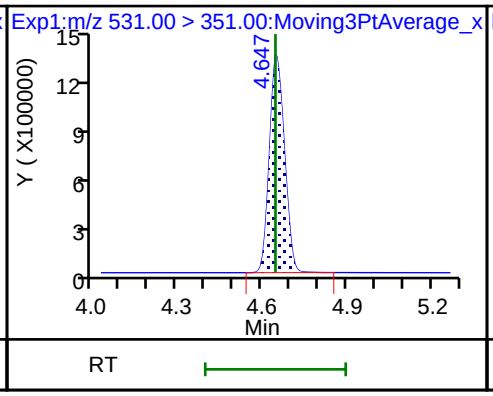
31 Perfluorononanoic acid



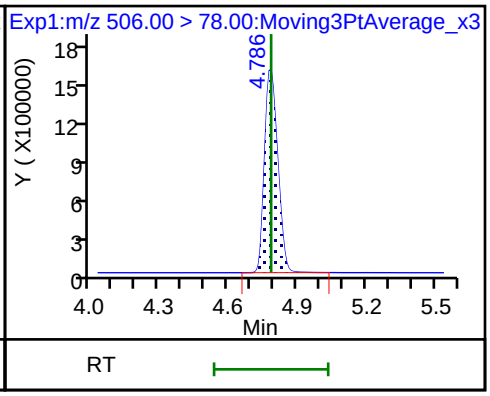
D 30 13C5 PFNA



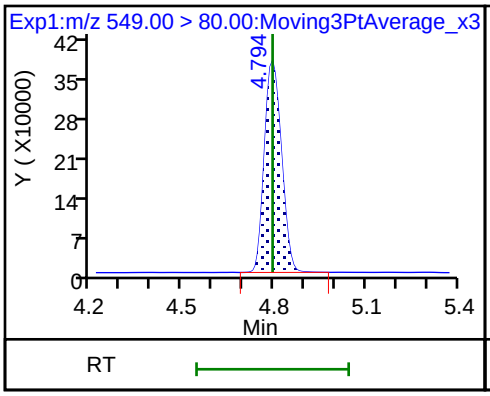
32 9ClFOS



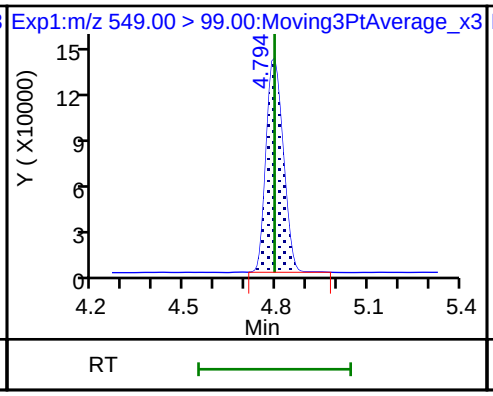
D 33 13C8 FOSA



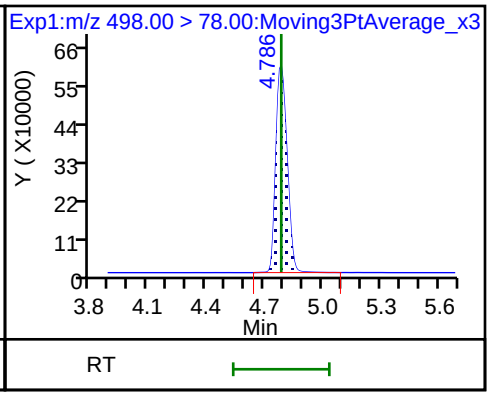
35 Perfluorononanesulfonic acid



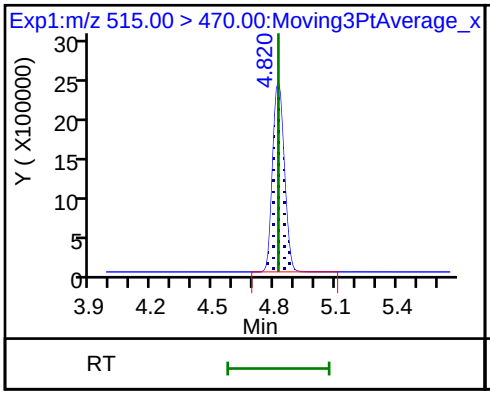
35 Perfluorononanesulfonic acid



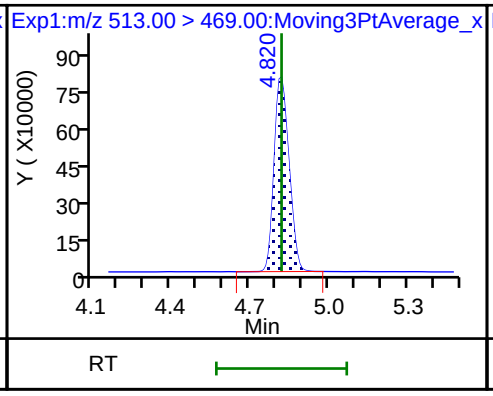
34 Perfluorooctanesulfonamide



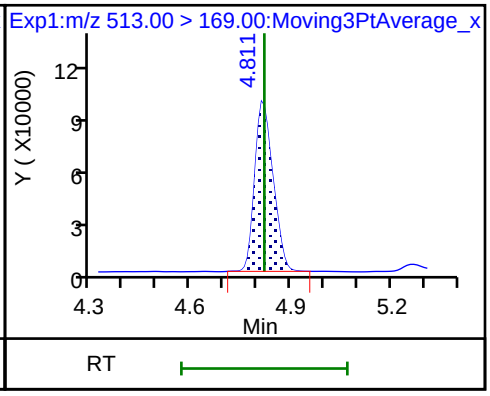
D 39 13C2 PFDA



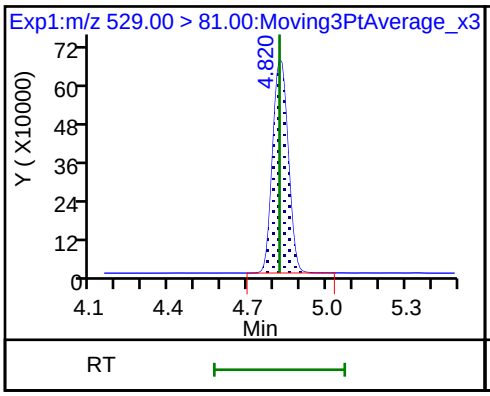
37 Perfluorodecanoic acid



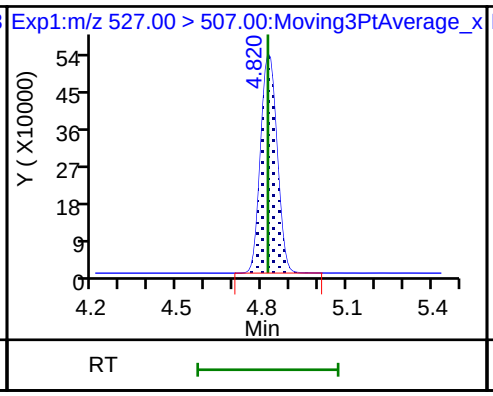
37 Perfluorodecanoic acid



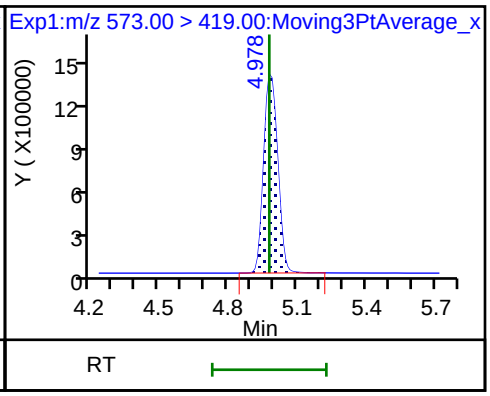
D 38 M2-8:2 FTS



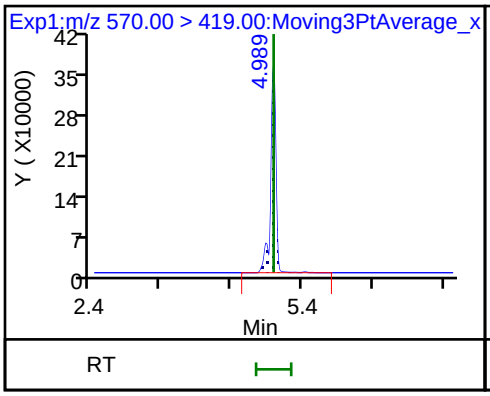
36 8:2 FTS



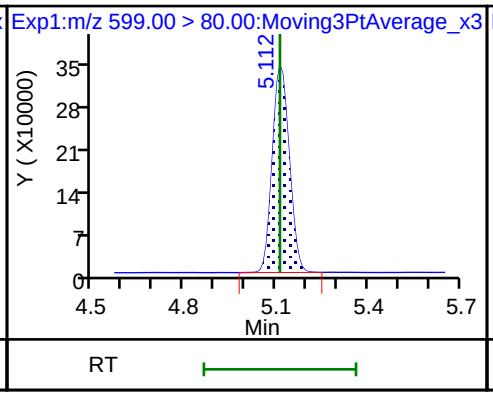
D 40 d3-NMeFOSAA



41 NMeFOSAA



42 Perfluorodecanesulfonic acid



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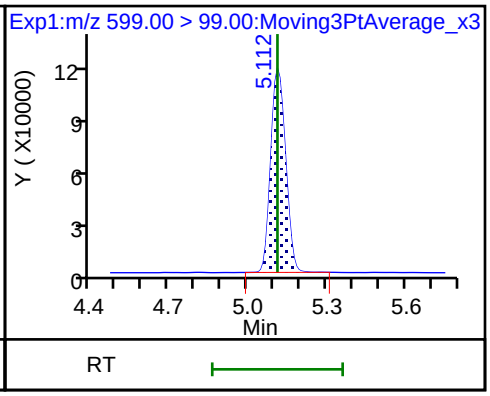
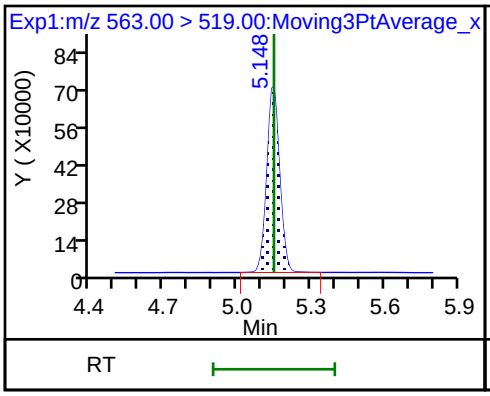


45 Perfluoroundecanoic acid



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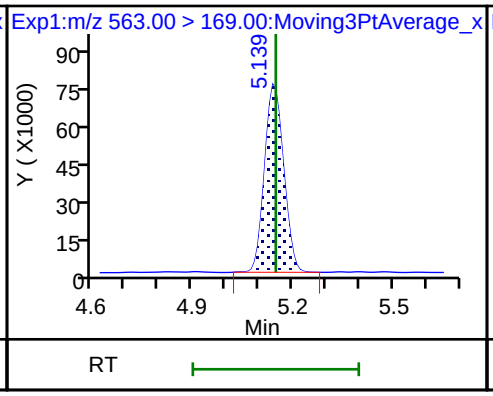
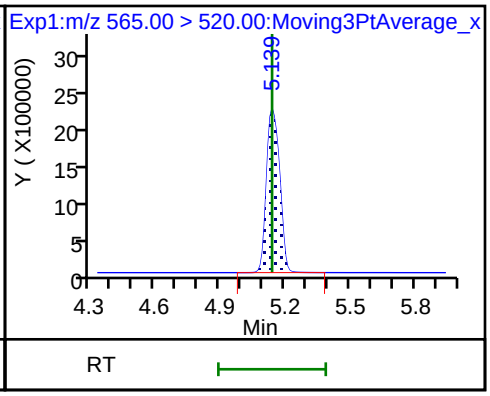
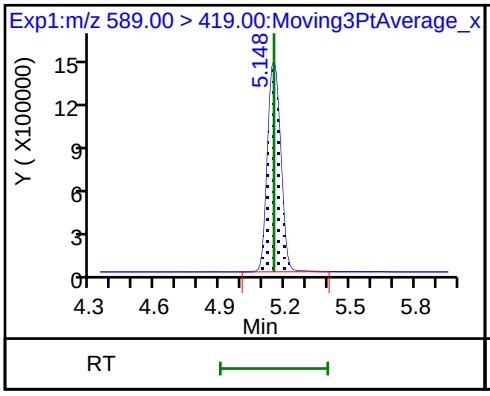


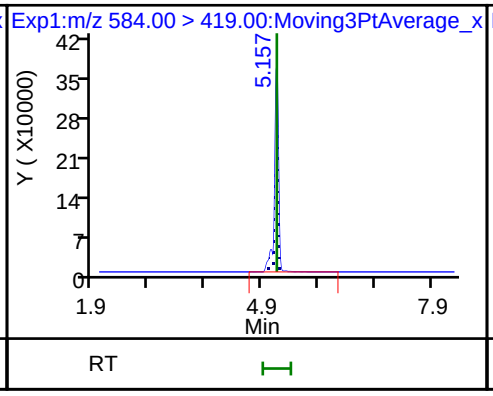
D 43 13C2 PFUnA



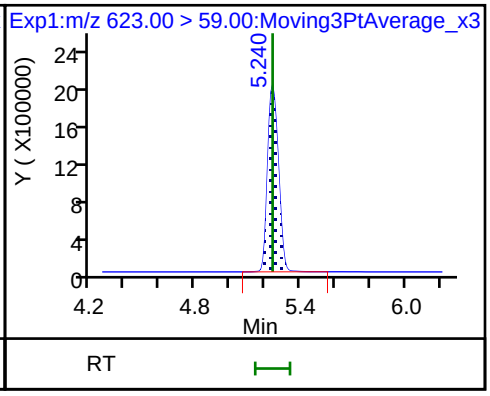
D 44 d5-NEtFOSAA



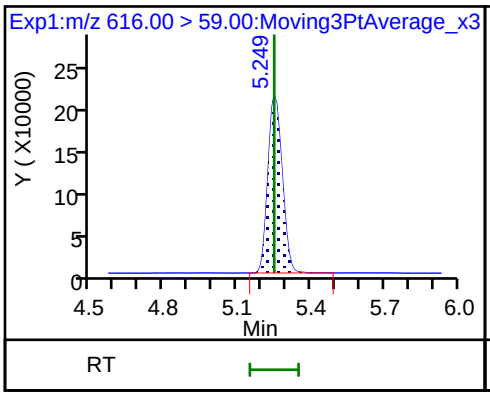
46 NEtFOSA



D 47 d7-N-MeFOSE-M



48 N-MeFOSE-M



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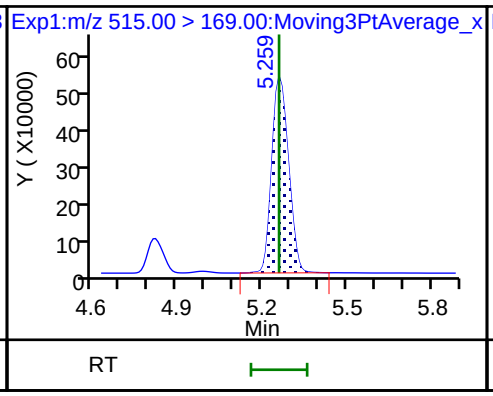
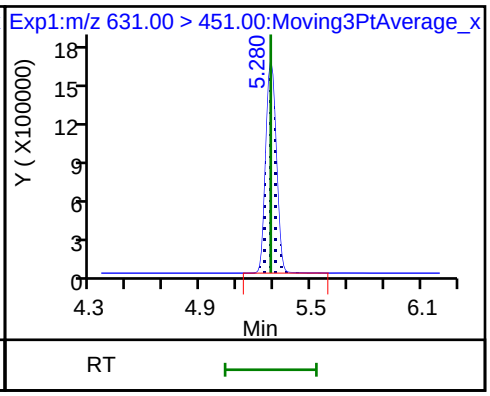
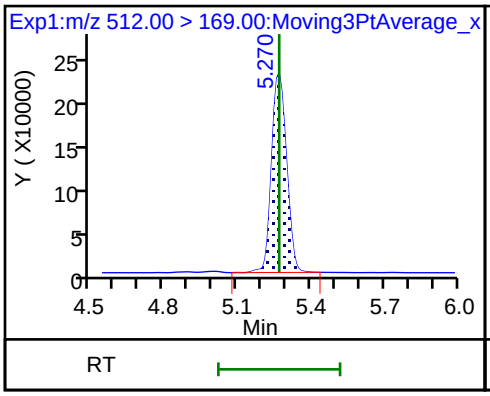


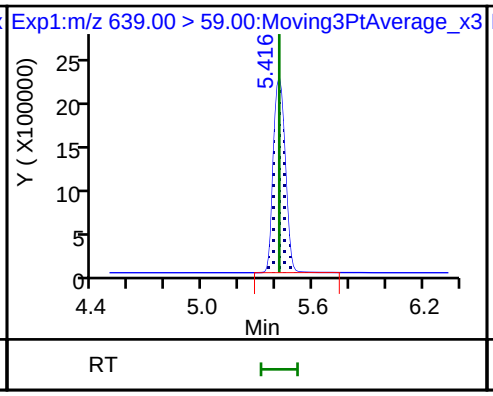
51 11ClFOS



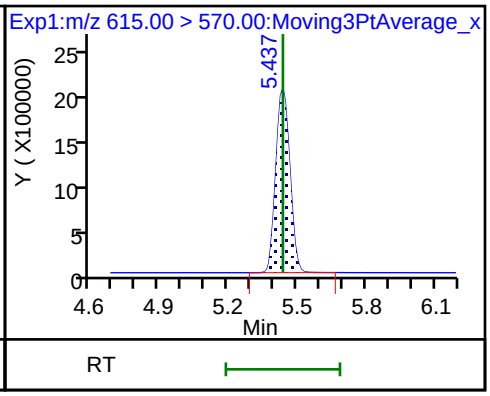
50 NMeFOSA



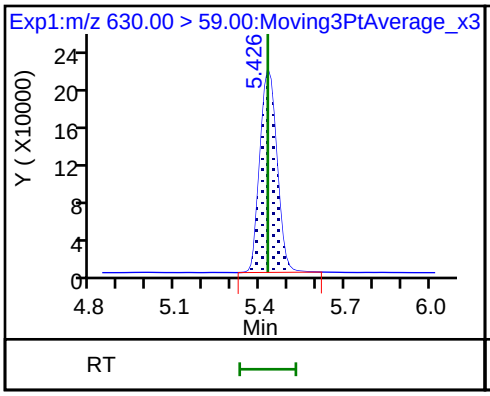
D 52 d9-N-EtFOSE-M



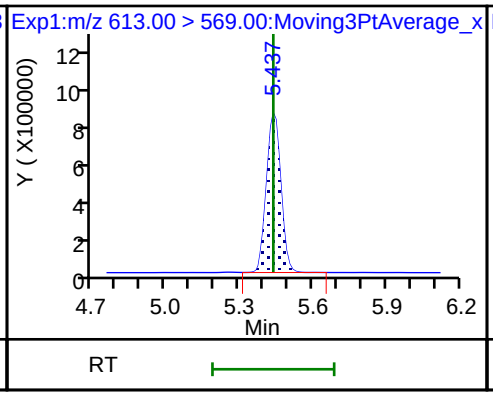
D 56 13C2 PFDoA



53 N-EtFOSE-M



57 Perfluorododecanoic acid



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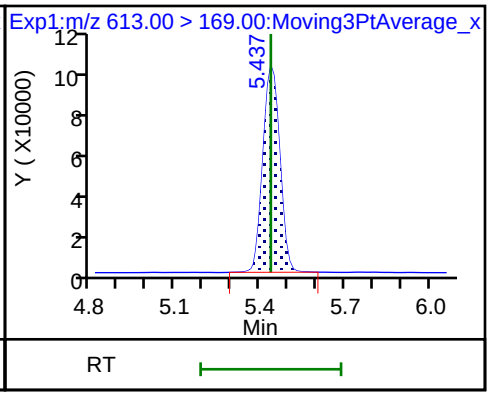

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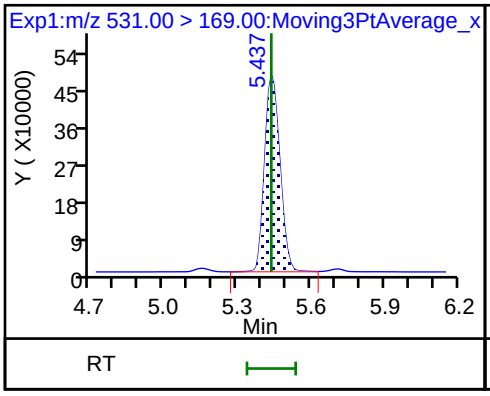
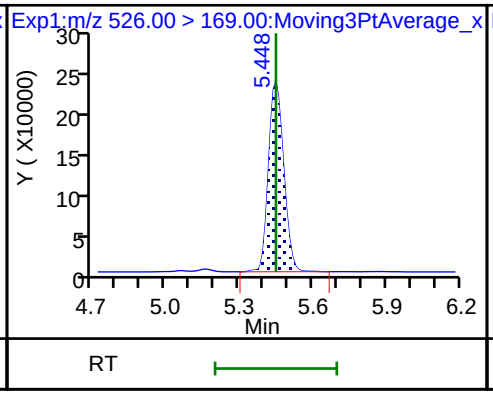
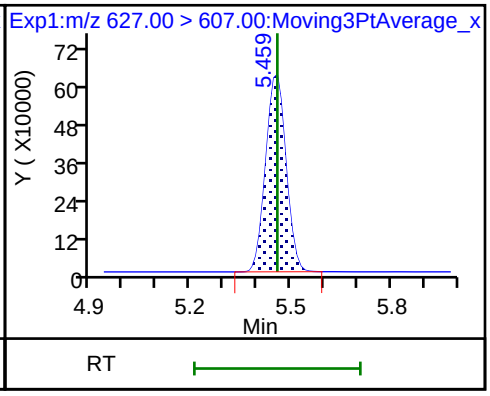


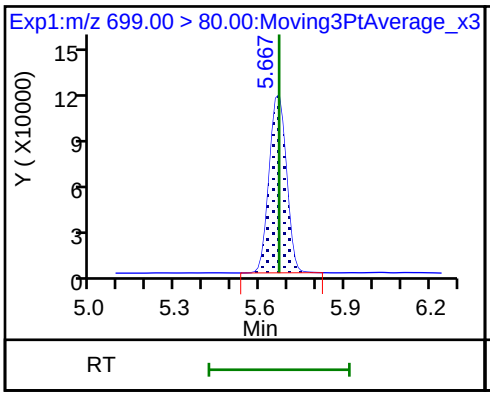
55 N-EtFOSA-M



58 10:2 FTS



59 PFDoS



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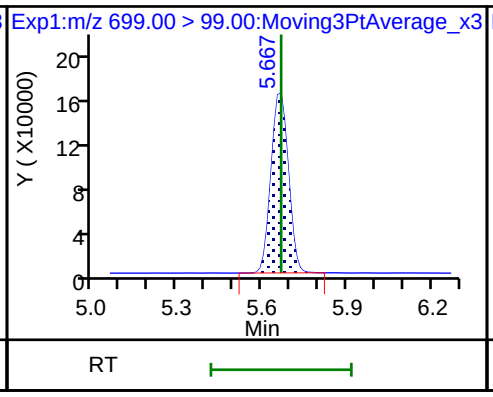
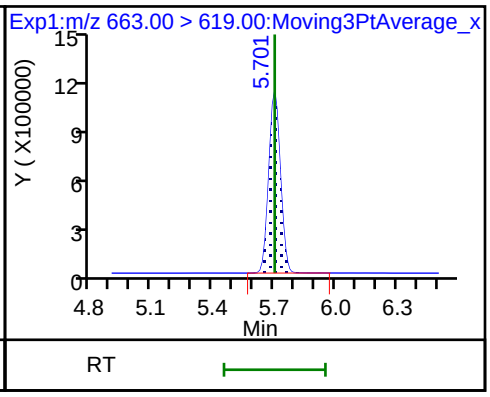


60 Perfluorotridecanoic acid



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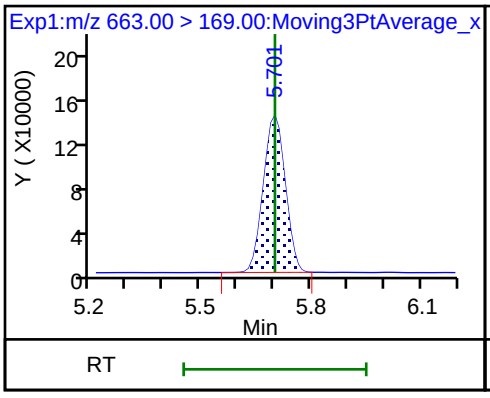
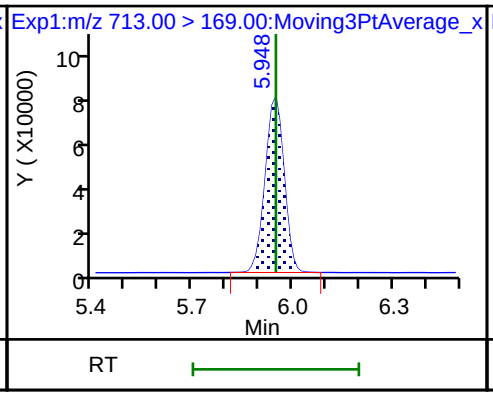
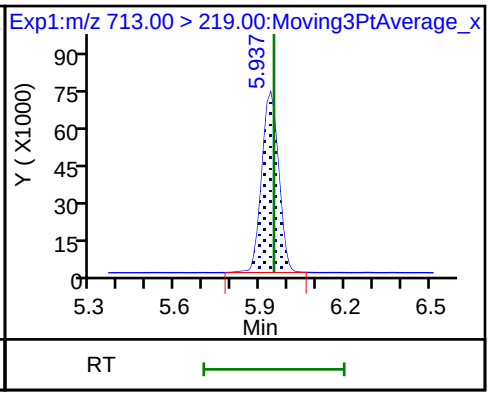


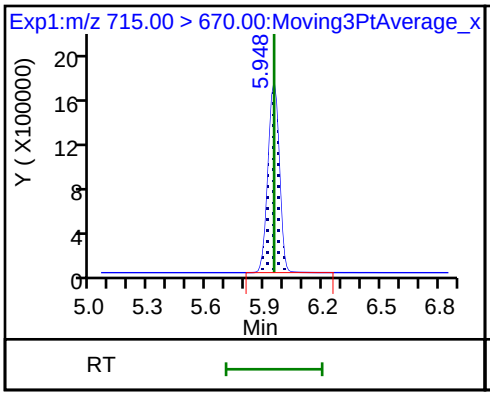
62 Perfluorotetradecanoic acid



62 Perfluorotetradecanoic acid



D 61 13C2 PFTeDA



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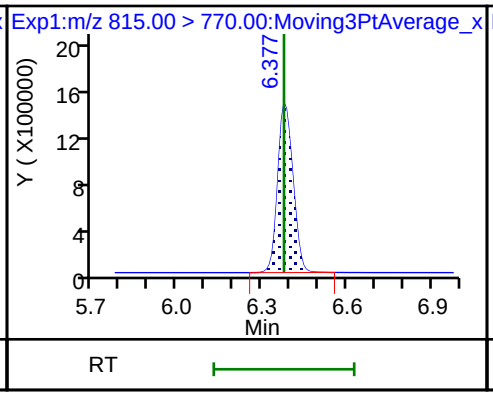
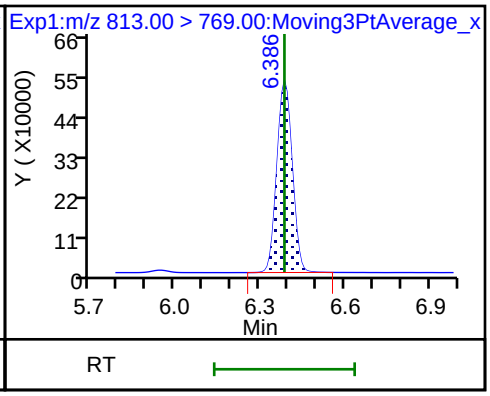
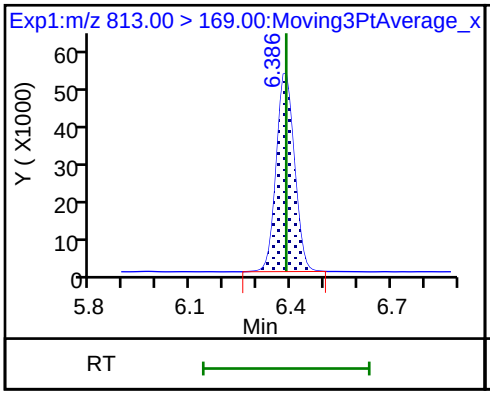


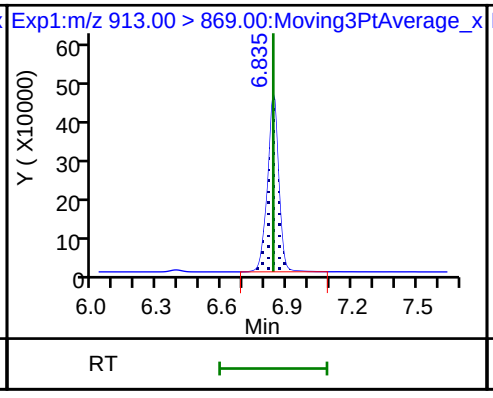
63 Perfluorohexadecanoic acid



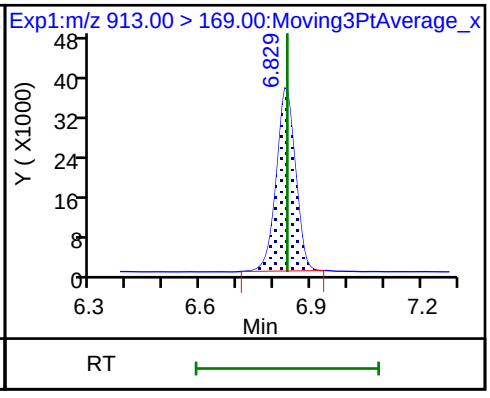
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

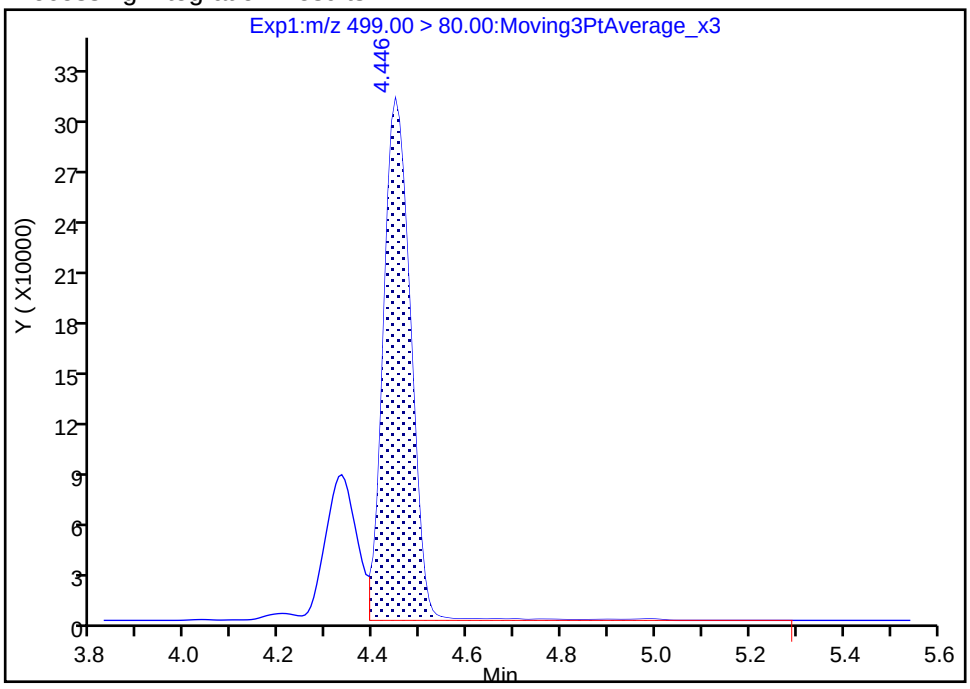
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d
Injection Date: 10-Sep-2020 15:02:11 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

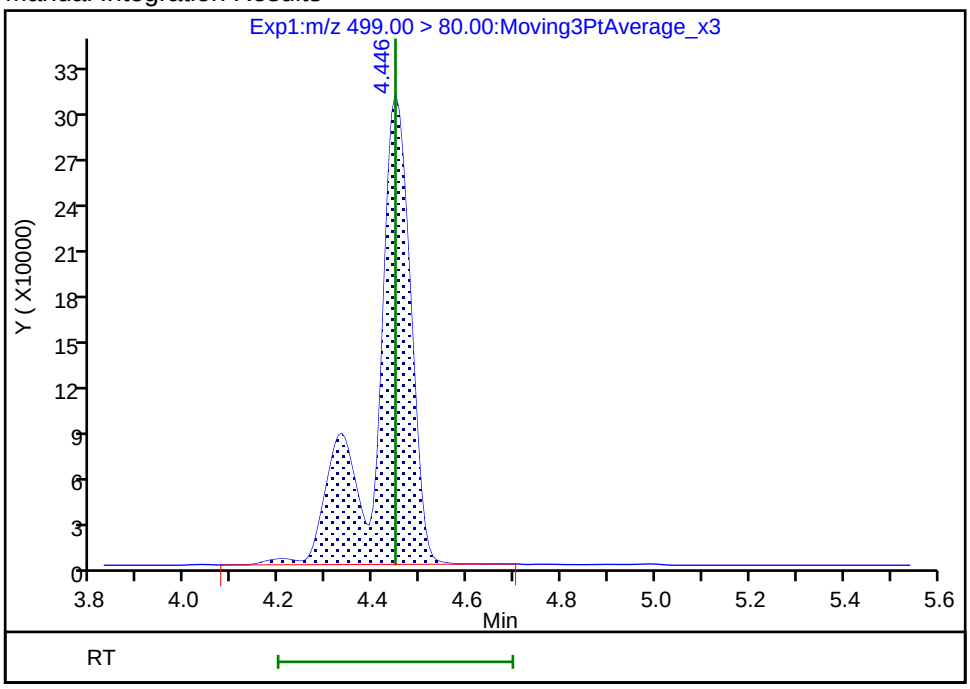
Processing Integration Results

RT: 4.45
Area: 1224438
Amount: 0.770092
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 1608900
Amount: 1.011894
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 15:19:22
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411087/13 Calibration Date: 09/10/2020 16:51

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_A_085.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.9206		2.65	2.50	6.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.065		2.67	2.50	6.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.048		2.29	2.21	3.8	50.0
4:2 FTS	AveID	2.273	2.475		2.54	2.34	8.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	1.022		2.65	2.50	6.0	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.8373		2.48	2.35	5.6	50.0
HFPO-DA (GenX)	AveID	0.9742	1.080		2.77	2.50	10.8	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	0.9720		2.40	2.50	-4.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.099		2.12	2.28	-7.0	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	10.56		2.60	2.36	10.2	50.0
6:2 FTS	AveID	2.299	2.291		2.36	2.37	-0.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.204		2.56	2.38	7.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.133		2.78	2.50	11.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.107		2.48	2.32	7.0	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	1.084		2.83	2.51	13.0	40.0
F-53B Major	AveID	3.236	3.385		2.44	2.33	4.6	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9556		2.57	2.50	2.7	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	1.002		2.57	2.40	6.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	1.026		2.66	2.50	6.5	40.0
8:2 FTS	AveID	1.775	1.923		2.60	2.40	8.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.7468		2.52	2.50	0.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.9618		2.78	2.41	15.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.6805		2.35	2.50	-6.2	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.7290		2.70	2.50	7.9	40.0
NMeFOSE	AveID	1.080	1.062		2.46	2.50	-1.6	40.0
NMeFOSA	AveID	0.9606	1.119		2.91	2.50	16.5	50.0
F-53B Minor	AveID	4.102	4.507		2.59	2.36	9.9	50.0
NEtFOSE	AveID	1.073	1.169		2.72	2.50	9.0	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.9776		2.41	2.52	-4.4	40.0
10:2 FTS	AveID	2.014	2.272		2.72	2.41	12.8	50.0
NEtFOSA	AveID	1.058	1.218		2.88	2.50	15.1	40.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3381		2.46	2.42	1.6	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411087/13 Calibration Date: 09/10/2020 16:51

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.10_A18_PFC_A_085.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	0.9366		2.49	2.50	-0.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.0858		2.55	2.50	1.7	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.037		2.93	2.50	17.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.8597		3.25	2.50	30.2	50.0
13C4 PFBA	Ave	1.585	1.481		2.34	2.50	-6.6	50.0
13C5 PFPeA	Ave	1.233	1.117		2.26	2.50	-9.5	50.0
13C3 PFBS	Ave	0.9684	0.9811		2.36	2.33	1.3	50.0
M2-4:2 FTS	Ave	0.2333	0.2181		2.18	2.34	-6.5	50.0
13C2 PFHxA	Ave	1.231	1.221		2.48	2.50	-0.8	50.0
13C3 HFPO-DA	Ave	0.2518	0.2401		2.38	2.50	-4.7	50.0
13C4 PFHpA	Ave	1.051	1.091		2.60	2.50	3.8	50.0
18O2 PFHxS	Ave	0.5117	0.5320		2.46	2.37	4.0	50.0
M2-6:2 FTS	Ave	0.1958	0.1808		2.19	2.38	-7.7	50.0
13C4 PFOA	Ave	1.001	0.9629		2.41	2.50	-3.8	50.0
13C4 PFOS	Ave	0.3465	0.3427		2.36	2.39	-1.1	50.0
13C5 PFNA	Ave	0.8063	0.8552		2.65	2.50	6.1	50.0
13C8 FOSA	Ave	0.5590	0.5536		2.48	2.50	-1.0	50.0
13C2 PFDA	Ave	0.7829	0.7957		2.54	2.50	1.6	50.0
M2-8:2 FTS	Ave	0.2823	0.2395		2.03	2.40	-15.2	50.0
d3-NMeFOSAA	Ave	0.5255	0.5242		2.49	2.50	-0.2	50.0
13C2 PFUnA	Ave	0.7758	0.8977		2.89	2.50	15.7	50.0
d5-NEtFOSAA	Ave	0.5556	0.5390		2.43	2.50	-3.0	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1652		14.9	12.5	19.4	50.0
d-N-MeFOSA-M	Ave	0.1965	0.1920		2.44	2.50	-2.3	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1996		14.7	12.5	17.5	50.0
13C2 PFDoA	Ave	0.7650	0.9009		2.94	2.50	17.8	50.0
d-N-EtFOSA-M	Ave	0.2011	0.1850		2.30	2.50	-8.0	50.0
13C2 PFTeDA	Ave	0.6311	0.7750		3.07	2.50	22.8	50.0
13C2 PFHxDA	Ave	0.4618	0.4872		2.64	2.50	5.5	50.0
13C8 PFOA	Ave	0.6756	0.7555		2.74	2.45	11.8	50.0
13C8 PFOS	Ave	0.1082	0.1082		2.39	2.39	-0.0	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_085.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 10-Sep-2020 16:51:37 ALS Bottle#: 53 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:39:03 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1040

First Level Reviewer: sanjumnair Date: 11-Sep-2020 08:39:03
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.546	2.546	0.0	0.624	16160588	2.34		93.4	8337	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.546	2.546	0.0	1.000	14877457	2.65		106	720	
D 4 13C5 PFPeA										
267.90 > 223.00	2.896	2.896	0.0	0.710	12184111	2.26		90.5	5117	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.896	2.896	0.0	1.000	12970555	2.67		107	542	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.937	2.937	0.0	1.004	9920119	2.29	Target=2.30	104	2073	
298.90 > 99.00	2.937	2.937	0.0	1.004	4303712		2.31(1.15-3.45)		1278	
D 9 13C3 PFBS										
301.90 > 80.00	2.927	2.927	0.0	0.717	9955672	2.36		101	3869	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.228	3.228	0.0	0.791	2222333	2.18		93.5	1067	
8 4:2 FTS										
327.00 > 307.00	3.228	3.228	0.0	1.000	5499276	2.54		109	12924	
D 11 13C2 PFHxA										
315.00 > 270.00	3.275	3.275	0.0	0.803	13321318	2.48		99.2	6415	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.275	3.275	0.0	1.000	13608935	2.65	Target=13.78	106	802	
313.00 > 119.00	3.275	3.275	0.0	1.000	950343		14.32(6.89-20.66)		455	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.285	3.285	0.0	1.122	8407188	2.48	Target=3.02	106	1594	
349.00 > 99.00	3.285	3.285	0.0	1.122	2863921		2.94(1.51-4.52)		1530	
13 HPFO-DA										
285.00 > 169.00	3.402	3.402	0.0	1.000	2828325	2.77		111	5588	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.402	3.402	0.0	0.834	2619439	2.38		95.3	4763	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.676	3.676	0.0	1.000	11573438	2.40	Target=3.84	95.9	1051	
363.00 > 169.00	3.676	3.676	0.0	1.000	3438330		3.37(1.92-5.76)		1715	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.686	3.686	0.0	1.000	5804279	2.12	Target=3.50	93.0	1715	
399.00 > 99.00	3.686	3.686	0.0	1.000	1698838		3.42(1.75-5.25)		779	
D 17 18O2 PFHxS										
403.00 > 84.00	3.686	3.686	0.0	0.904	5491721	2.46		104	7271	
D 18 13C4 PFHpA										
367.00 > 322.00	3.676	3.676	0.0	0.901	11906667	2.60		104	7070	
19 DONA										
377.00 > 251.00	3.725	3.725	0.0	0.838	37195179	2.60	Target=2.42	110	9175	
377.00 > 85.00	3.725	3.725	0.0	0.838	15279007		2.43(1.21-3.63)		8513	
21 6:2 FTS										
427.00 > 407.00	4.055	4.055	0.0	1.000	4283373	2.36		99.6	3881	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.055	4.055	0.0	0.994	1873847	2.19		92.3	1221	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.071	4.071	0.0	0.916	4285876	2.56	Target=4.40	108	1405	
449.00 > 99.00	4.071	4.071	0.0	0.916	997435		4.30(2.20-6.60)		1080	
* 23 13C2 PFOA										
415.00 > 370.00	4.079	4.079	0.0		10911451	2.50			5661	
$ 26 13C8 PFOA										
421.00 > 376.00	4.071	4.071	0.0	0.998	8070240	2.74		112	6797	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.079	4.079	0.0	1.000	11916137	2.78	Target=2.94	111	1324	
413.00 > 169.00	4.071	4.079	-0.008	0.998	4194179		2.84(1.47-4.41)		2179	
D 25 13C4 PFOA										
417.00 > 372.00	4.079	4.079	0.0	1.000	10506416	2.40		96.2	5445	
D 27 13C4 PFOS										
503.00 > 80.00	4.443	4.443	0.0	1.089	3574792	2.36		98.9	1446	
$ 28 13C8 PFOS										
507.00 > 99.00	4.435	4.435	0.0	1.087	1128310	2.39		100.0	2745	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.443	4.443	0.0	1.000	3841863	2.48	Target=4.53	107	1126	M
499.00 > 99.00	4.443	4.443	0.0	1.000	800731		4.80(2.26-6.79)		954	M
D 30 13C5 PFNA										
468.00 > 423.00	4.459	4.459	0.0	1.093	9330962	2.65		106	6908	
31 Perfluorononanoic acid										
463.00 > 419.00	4.459	4.459	0.0	1.000	10134741	2.83	Target=8.97	113	1813	
463.00 > 169.00	4.459	4.459	0.0	1.000	1191243		8.51(4.48-13.45)		1823	
32 9ClFOS										
531.00 > 351.00	4.651	4.651	0.0	1.047	11795424	2.44		105	10967	
D 33 13C8 FOSA										
506.00 > 78.00	4.783	4.783	0.0	1.172	6040572	2.48		99.0	5515	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.783	4.783	0.0	1.000	5772499	2.57		103	3579	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.791	4.791	0.0	1.078	3595203	2.57	Target=2.85	107	2068	
549.00 > 99.00	4.791	4.791	0.0	1.078	1301895		2.76(1.43-4.28)		1698	
D 39 13C2 PFDA										
515.00 > 470.00	4.817	4.817	0.0	1.181	8682004	2.54		102	8505	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.817	4.817	0.0	1.000	8910715	2.66	Target=10.16	106	2198	
513.00 > 169.00	4.817	4.817	0.0	1.000	848274		10.50(5.08-15.24)		247	
36 8:2 FTS										
527.00 > 507.00	4.825	4.825	0.0	1.000	4816130	2.60		108	5044	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.825	4.825	0.0	1.183	2503878	2.03		84.8	1691	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.986	4.986	0.0	1.222	5720092	2.49		99.8	3165	
41 NMeFOSAA										
570.00 > 419.00	4.986	4.986	0.0	1.000	4271745	2.52		101	27275	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.109	5.109	0.0	1.150	3466922	2.78	Target=2.77	115	2264	
599.00 > 99.00	5.109	5.109	0.0	1.150	1172471		2.96(1.38-4.15)		2350	
D 43 13C2 PFUnA										
565.00 > 520.00	5.146	5.146	0.0	1.261	9794930	2.89		116	8657	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.146	5.146	0.0	1.261	5881306	2.43		97.0	2766	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.137	5.137	0.0	0.998	6672141	2.35	Target=8.43	93.8	2457	
563.00 > 169.00	5.137	5.137	0.0	0.998	921324		7.24(4.22-12.65)		1119	
46 NEtFOSA										
584.00 > 419.00	5.155	5.155	0.0	1.002	4287528	2.70		108	1468	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.246	5.246	0.0	1.286	9014449	14.9		119	3693	
48 N-MeFOSE-M										
616.00 > 59.00	5.256	5.256	0.0	1.002	1915122	2.46		98.4	2074	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.266	5.266	0.0	1.291	2094514	2.44		97.7	49.3	
50 NMeFOSA										
512.00 > 169.00	5.277	5.277	0.0	1.002	2344445	2.91		117	646	
51 11ClFOS										
631.00 > 451.00	5.287	5.287	0.0	1.190	15874970	2.59		110	12205	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.424	5.424	0.0	1.330	10891178	14.7		117	3561	
53 N-EtFOSE-M										
630.00 > 59.00	5.435	5.435	0.0	1.002	2546344	2.72		109	2244	
D 56 13C2 PFDoA										
615.00 > 570.00	5.435	5.435	0.0	1.332	9829758	2.94		118	7876	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.435	5.435	0.0	1.000	9667707	2.40	Target=9.12	95.6	3026	
613.00 > 169.00	5.435	5.435	0.0	1.000	1147860		8.42(4.56-13.69)		1782	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.446	5.446	0.0	1.335	2019131	2.30		92.0	217	
55 N-EtFOSA-M										
526.00 > 169.00	5.457	5.457	0.0	1.002	2459167	2.88		115	446	
58 10:2 FTS										
627.00 > 607.00	5.457	5.457	0.0	1.131	5723925	2.72		113	5209	
59 PFDoS										
699.00 > 80.00	5.665	5.665	0.0	1.275	1223662	2.46	Target=0.72	102	1239	
699.00 > 99.00	5.665	5.665	0.0	1.275	1776699		0.69(0.36-1.07)		2816	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.701	5.701	0.0	1.049	9206843	2.49	Target=6.78	99.5	3652	
663.00 > 169.00	5.701	5.701	0.0	1.049	1288089		7.15(3.39-10.17)		1918	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.947	5.947	0.0	1.458	8456331	3.07		123	8167	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.936	5.936	0.0	0.998	726488	2.55	Target=0.85	102	2214	
713.00 > 219.00	5.936	5.936	0.0	0.998	771213		0.94(0.43-1.28)		2786	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.376	6.376	0.0	1.563	5316507	2.64		106	5767	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.385	6.385	0.0	1.001	5511668	2.93	Target=10.21	117	2797	
813.00 > 169.00	6.385	6.385	0.0	1.001	551679		9.99(5.11-15.32)		2354	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.823	6.823	0.0	1.070	4570466	3.25	Target=12.45	130	2683	
913.00 > 169.00	6.823	6.823	0.0	1.070	375473		12.17(6.22-18.67)		2222	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL5_00031 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 08:39:04 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_085.d

Injection Date: 10-Sep-2020 16:51:37 Instrument ID: A18

Lims ID: CCV L5

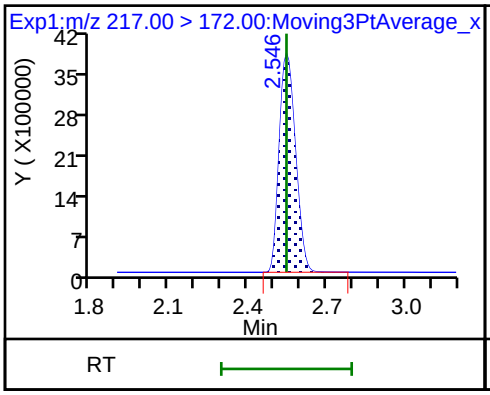
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 53 Worklist Smp#: 13

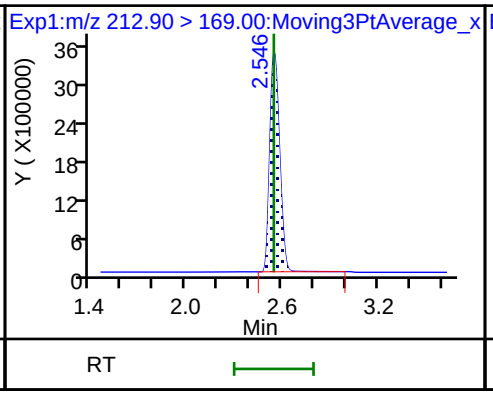
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

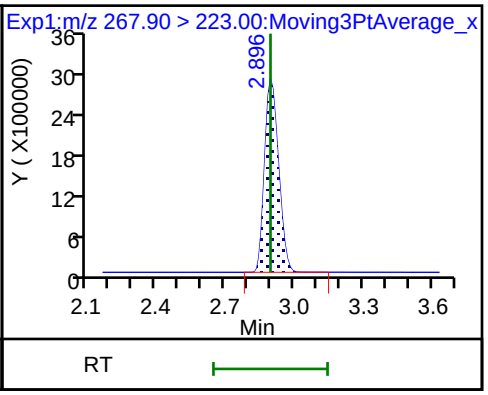
D 1 13C4 PFBA



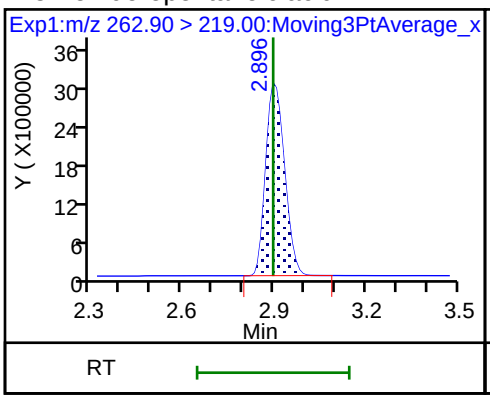
2 Perfluorobutanoic acid



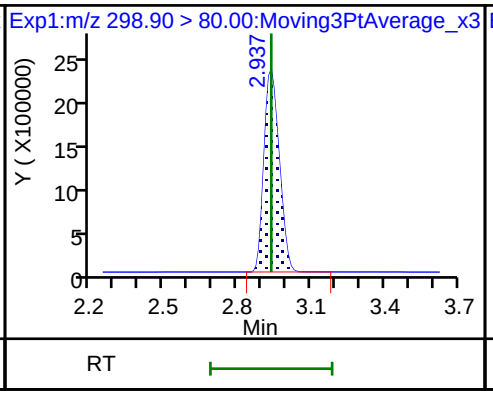
D 4 13C5 PFPeA



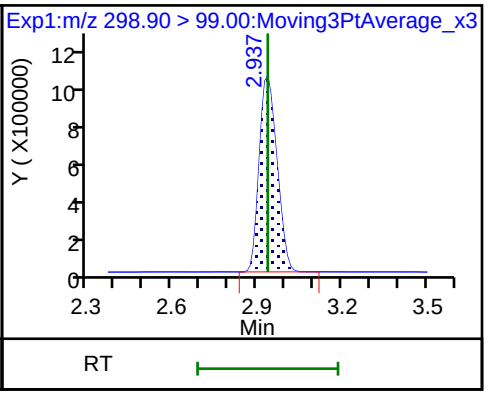
5 Perfluoropentanoic acid



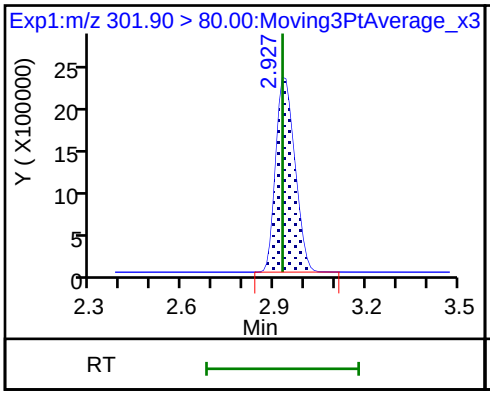
6 Perfluorobutanesulfonic acid



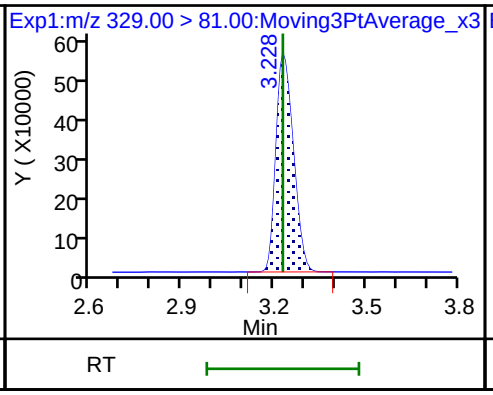
6 Perfluorobutanesulfonic acid



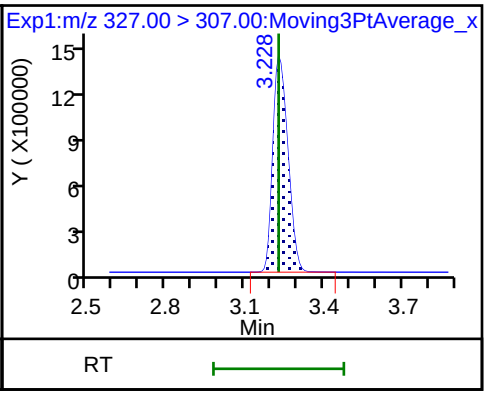
D 9 13C3 PFBS



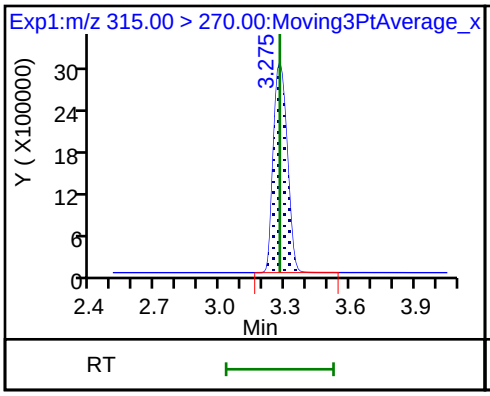
D 7 M2-4:2 FTS



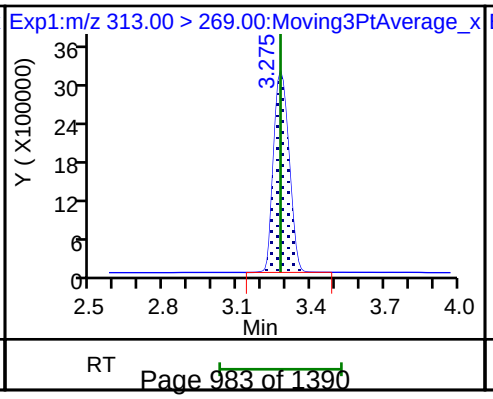
8 4:2 FTS



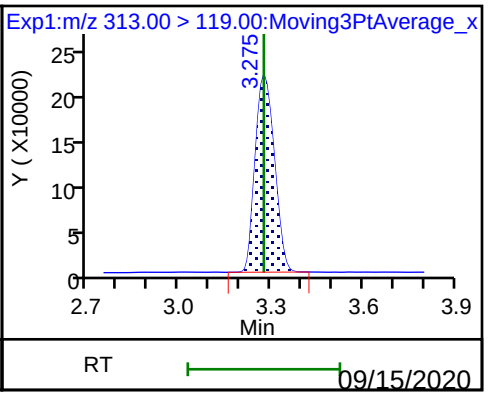
D 11 13C2 PFHxA



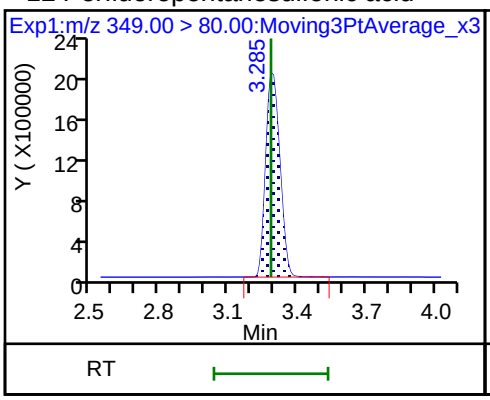
10 Perfluorohexanoic acid



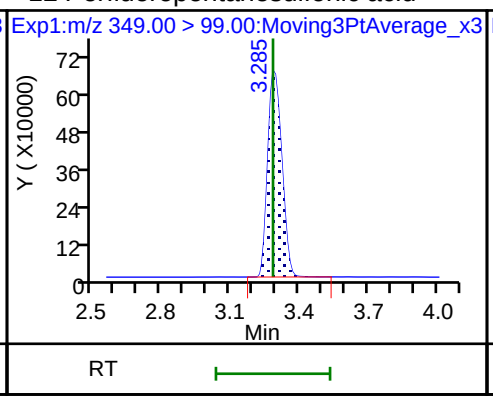
10 Perfluorohexanoic acid



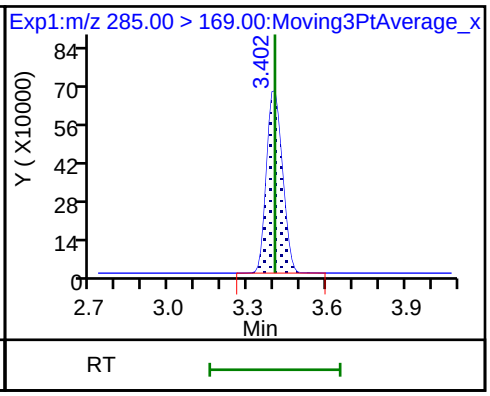
12 Perfluoropentanesulfonic acid



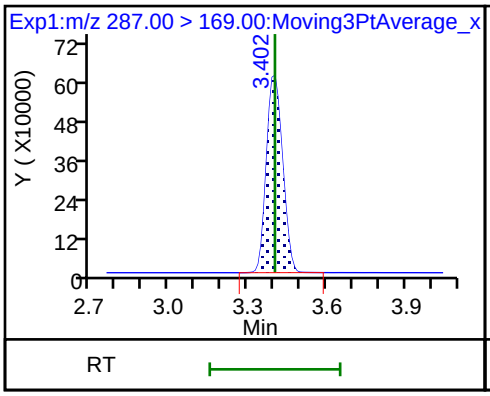
12 Perfluoropentanesulfonic acid



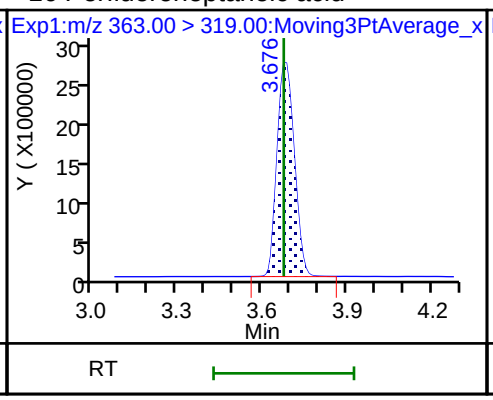
13 HPFO-DA



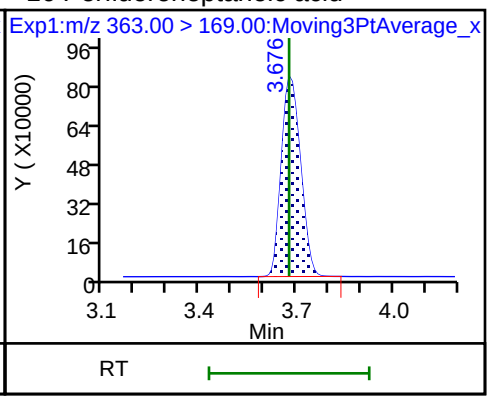
D 14 13C3 HFPO-DA



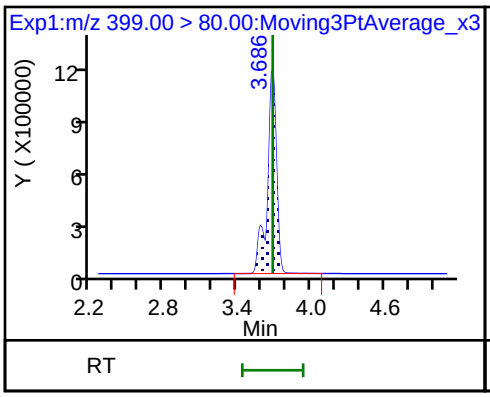
16 Perfluoroheptanoic acid



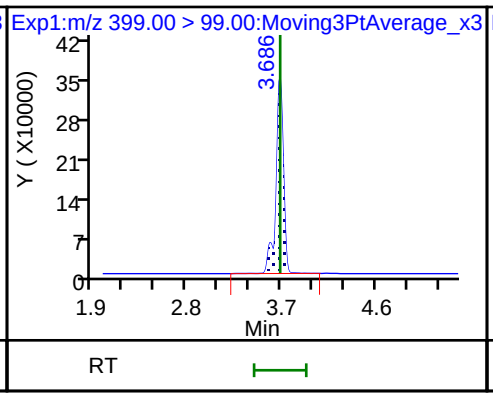
16 Perfluoroheptanoic acid



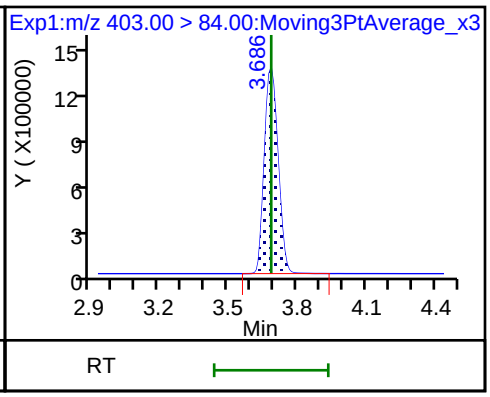
15 Perfluorohexanesulfonic acid



15 Perfluorohexanesulfonic acid



D 17 18O2 PFHxS



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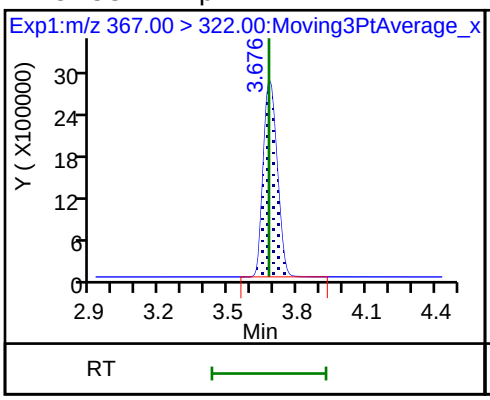
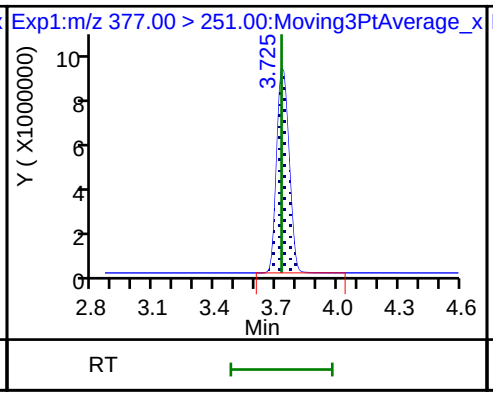
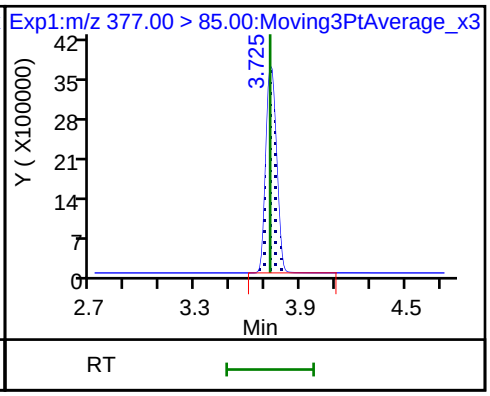


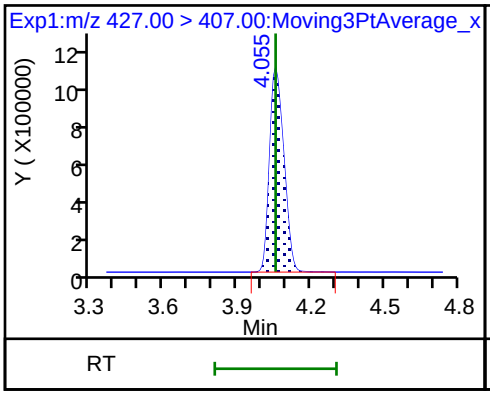
19 DONA



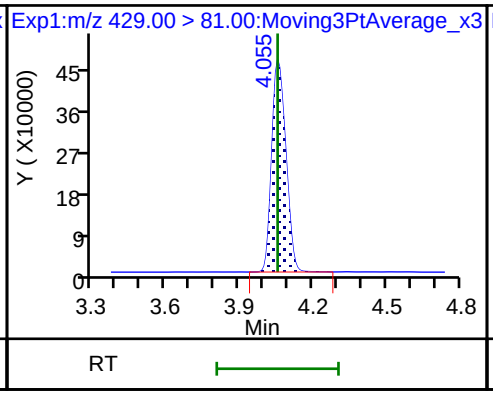
19 DONA



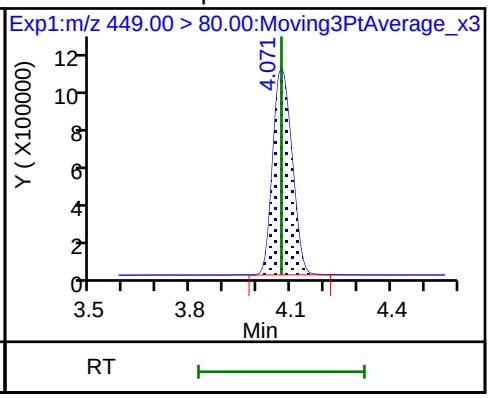
21 6:2 FTS



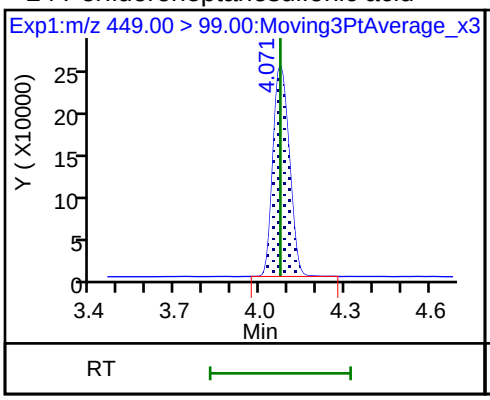
D 20 M2-6:2 FTS



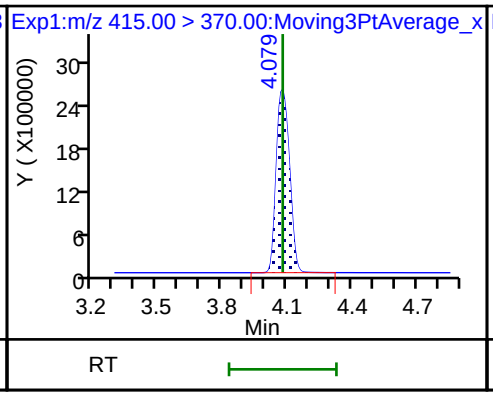
24 Perfluoroheptanesulfonic acid



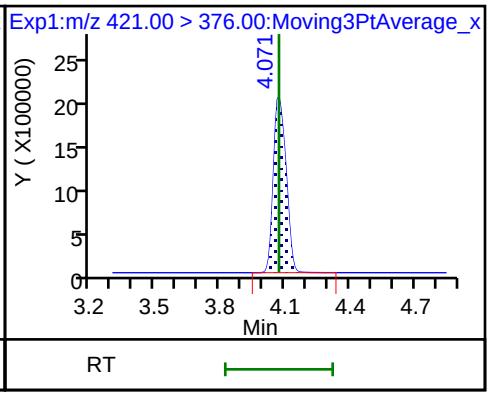
24 Perfluoroheptanesulfonic acid



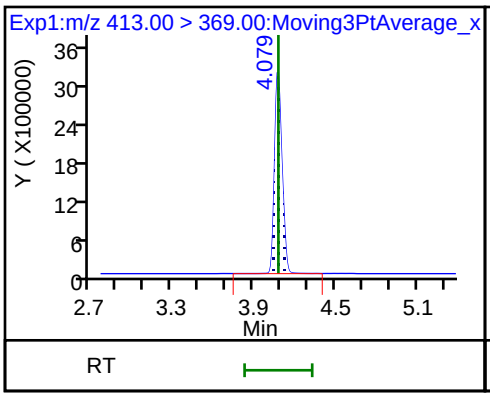
* 23 13C2 PFOA



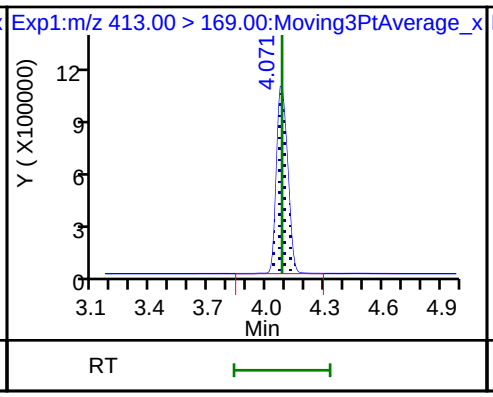
$ 26 13C8 PFOA



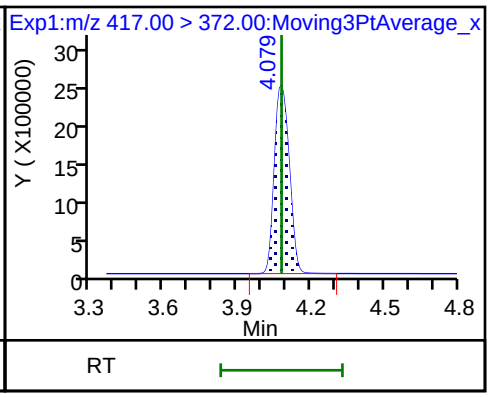
22 Perfluorooctanoic acid



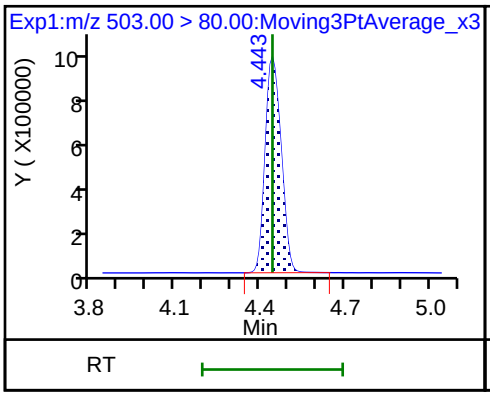
22 Perfluorooctanoic acid



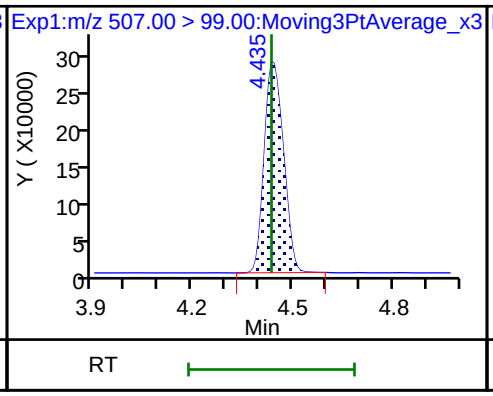
D 25 13C4 PFOA



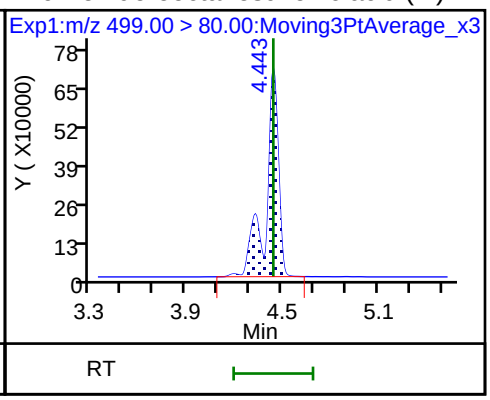
D 27 13C4 PFOS



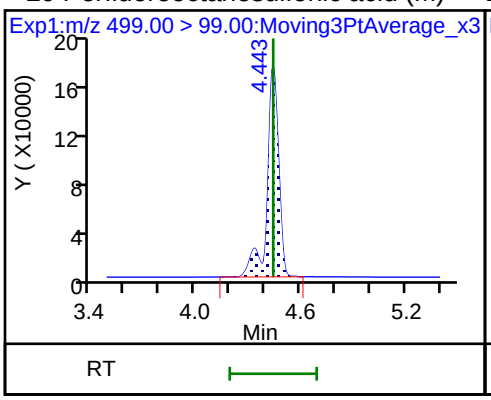
$ 28 13C8 PFOS



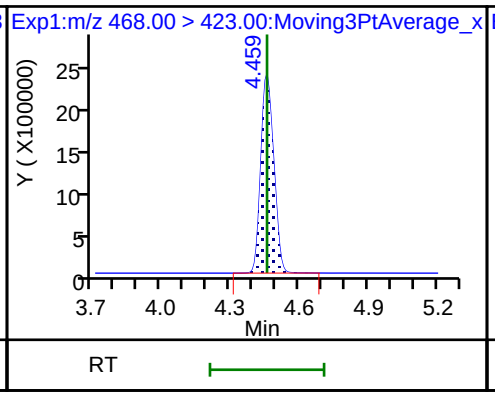
29 Perfluorooctanesulfonic acid (M)



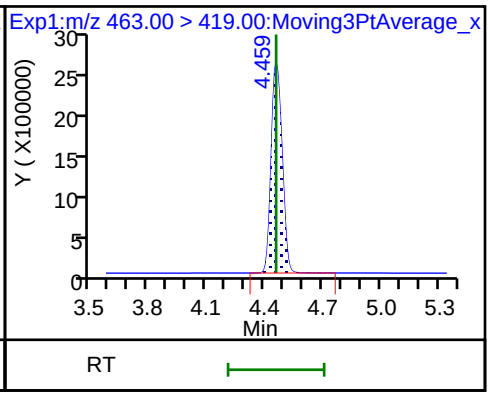
29 Perfluorooctanesulfonic acid (M)



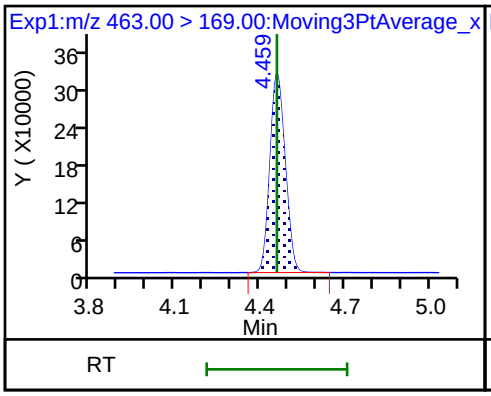
D 30 13C5 PFNA



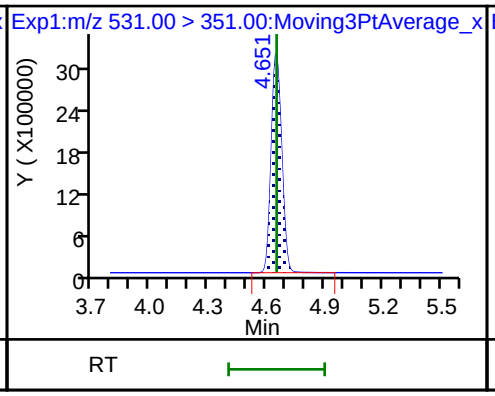
31 Perfluorononanoic acid



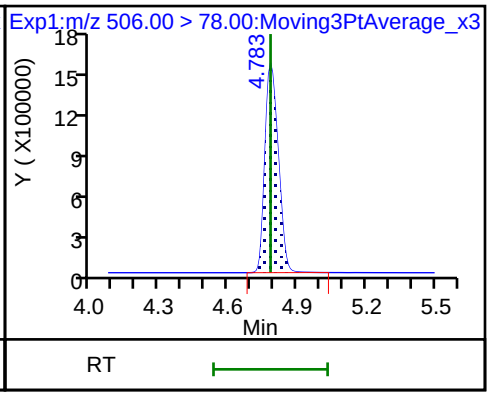
31 Perfluorononanoic acid



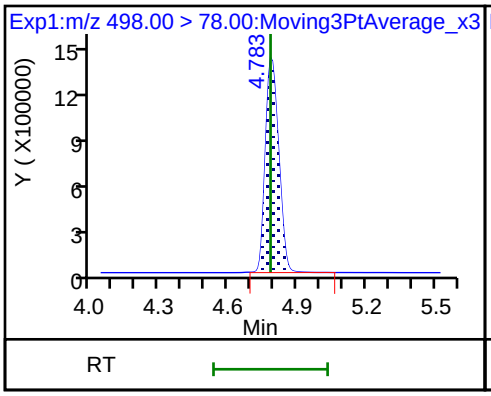
32 9ClFOS



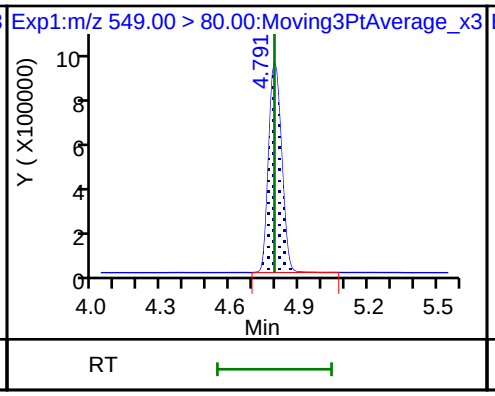
D 33 13C8 FOSA



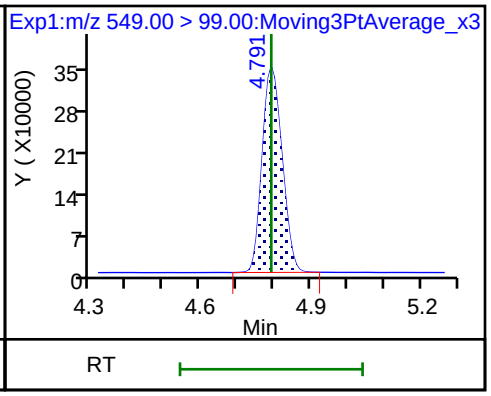
34 Perfluorooctanesulfonamide



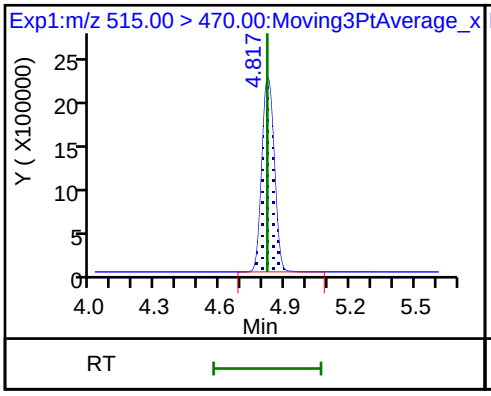
35 Perfluorononanesulfonic acid



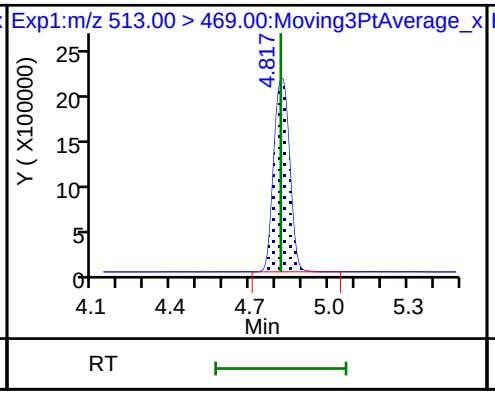
35 Perfluorononanesulfonic acid



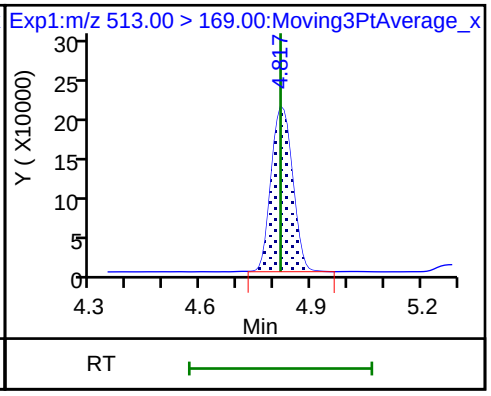
D 39 13C2 PFDA



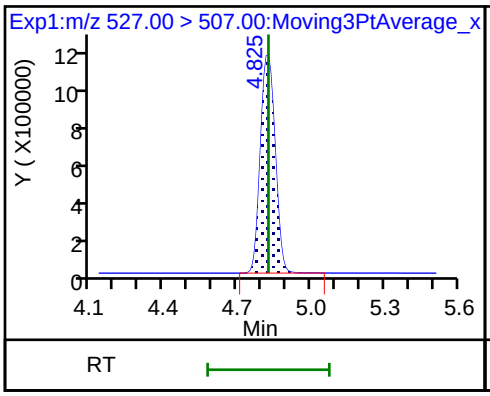
37 Perfluorodecanoic acid



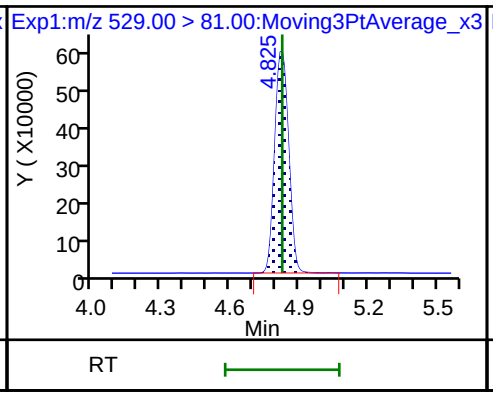
37 Perfluorodecanoic acid



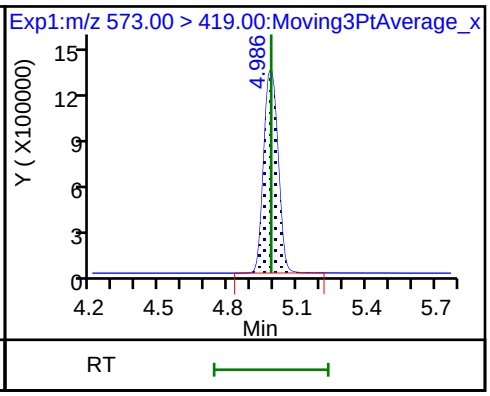
36 8:2 FTS



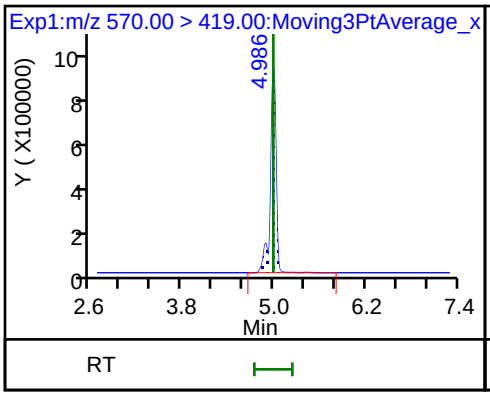
D 38 M2-8:2 FTS



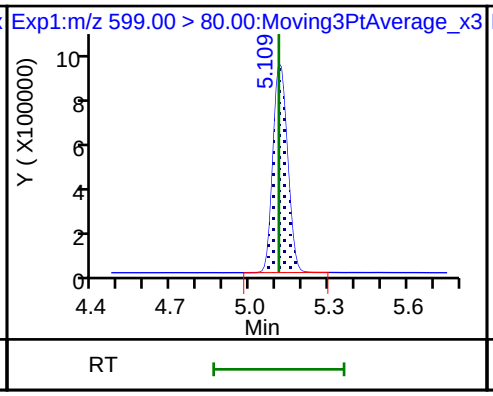
D 40 d3-NMeFOSAA



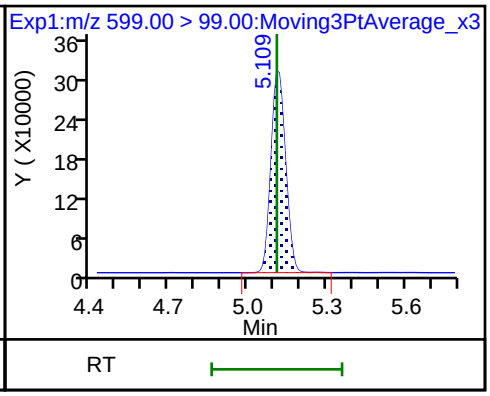
41 NMeFOSAA



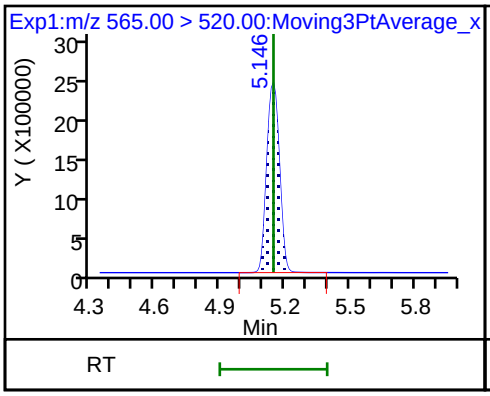
42 Perfluorodecanesulfonic acid



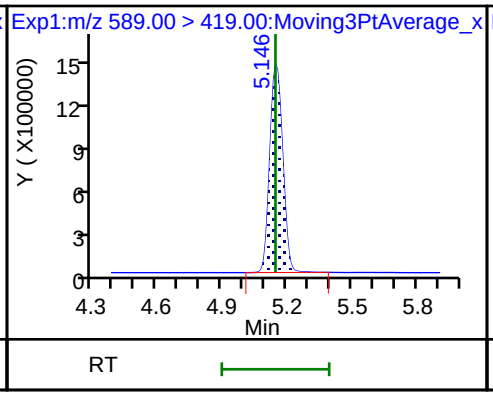
42 Perfluorodecanesulfonic acid



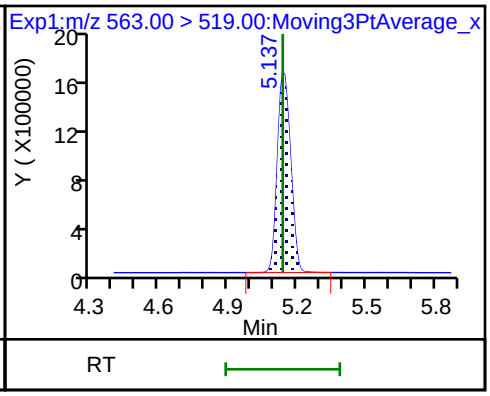
D 43 13C2 PFUnA



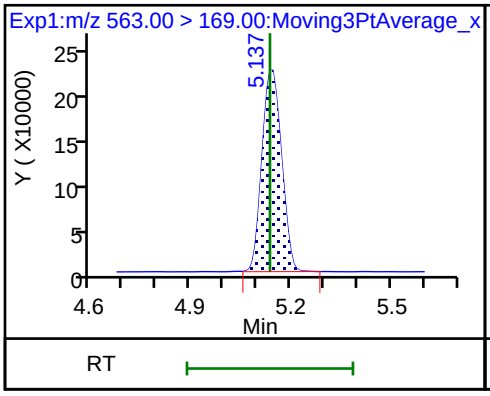
D 44 d5-NEtFOSAA



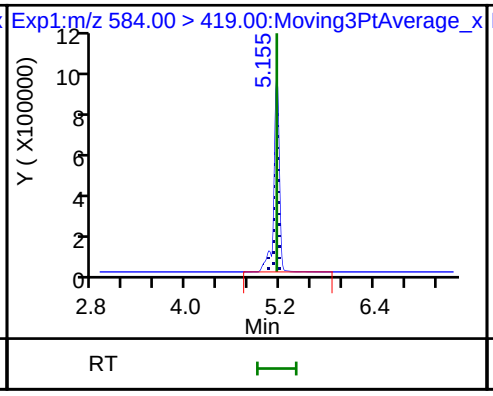
45 Perfluoroundecanoic acid



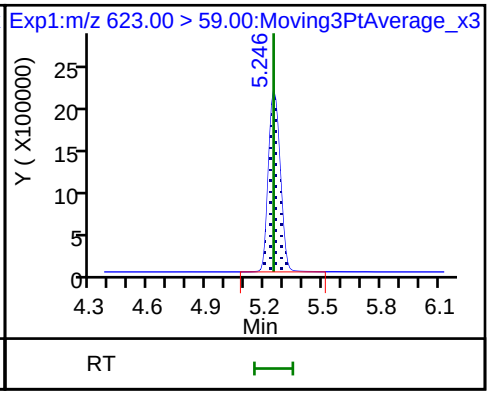
45 Perfluoroundecanoic acid



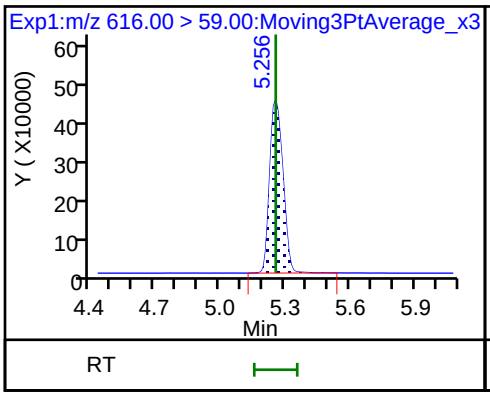
46 NEtFOSA



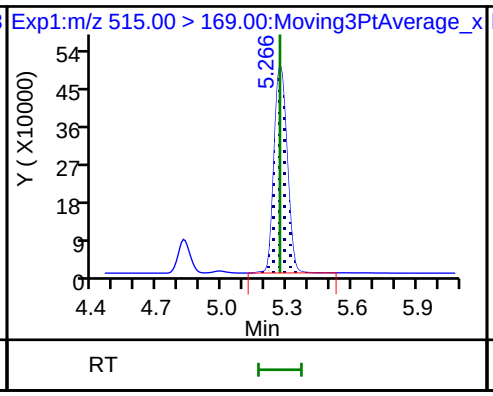
D 47 d7-N-MeFOSE-M



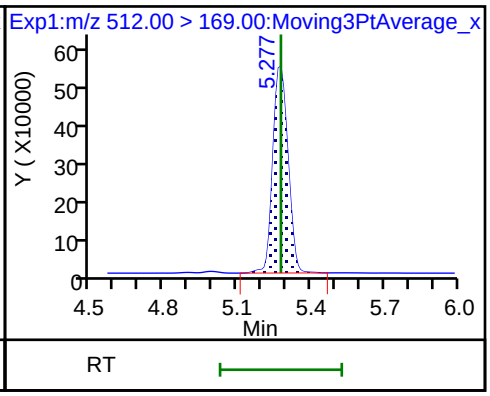
48 N-MeFOSE-M



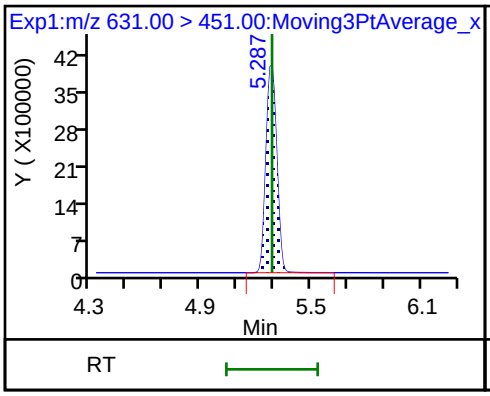
D 49 d-N-MeFOSA-M



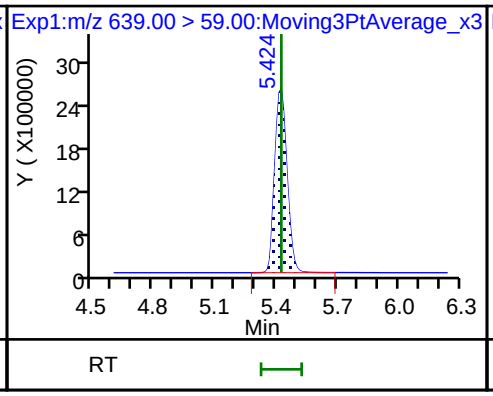
50 NMeFOSA



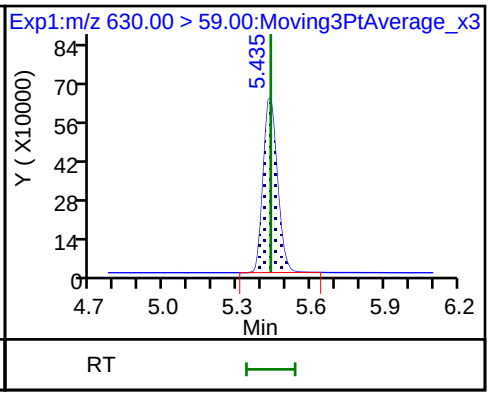
51 11ClFOS



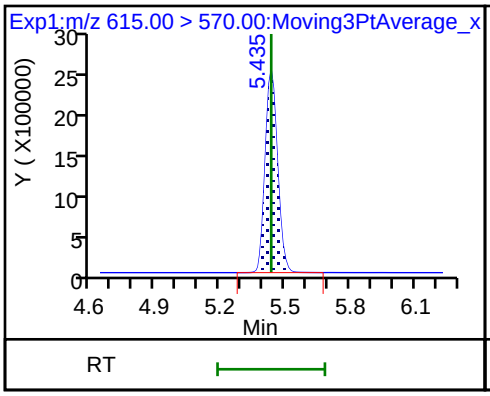
D 52 d9-N-EtFOSE-M



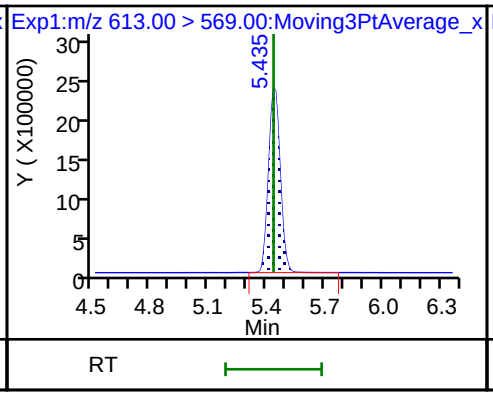
53 N-EtFOSE-M



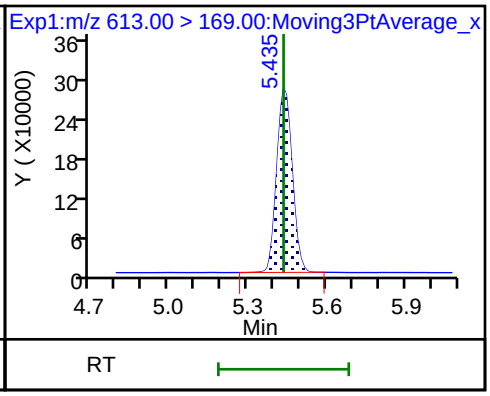
D 56 13C2 PFDoA



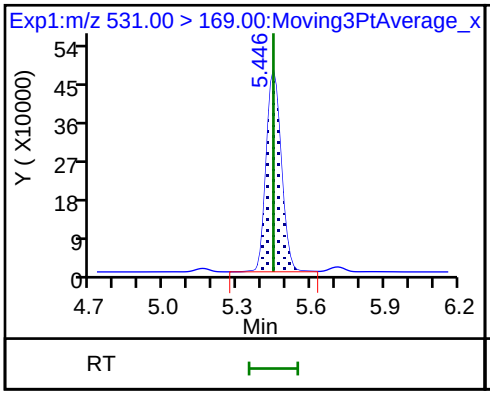
57 Perfluorododecanoic acid



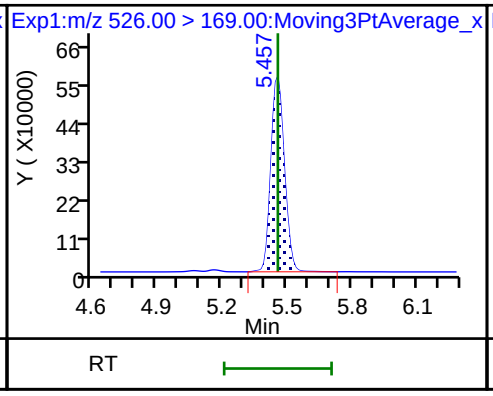
57 Perfluorododecanoic acid



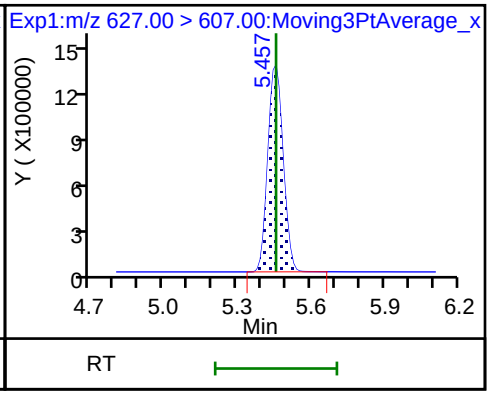
D 54 d-N-EtFOSA-M



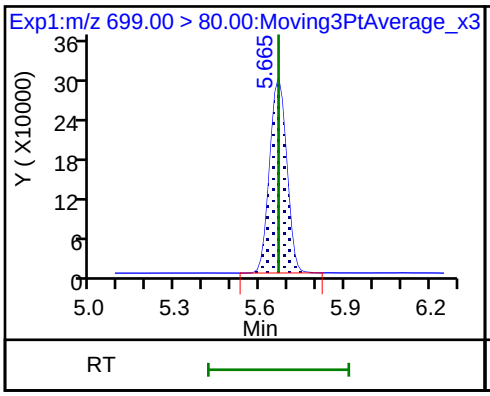
55 N-EtFOSA-M



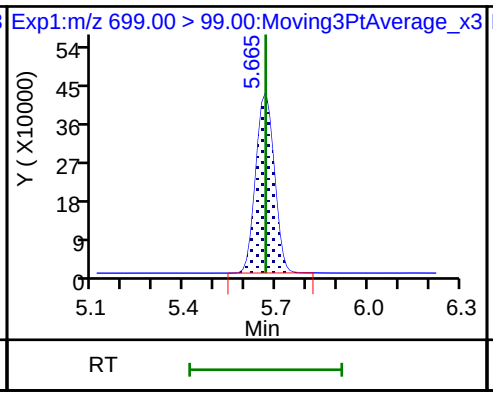
58 10:2 FTS



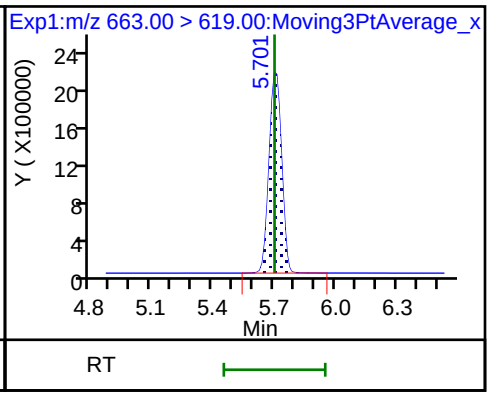
59 PFDoS



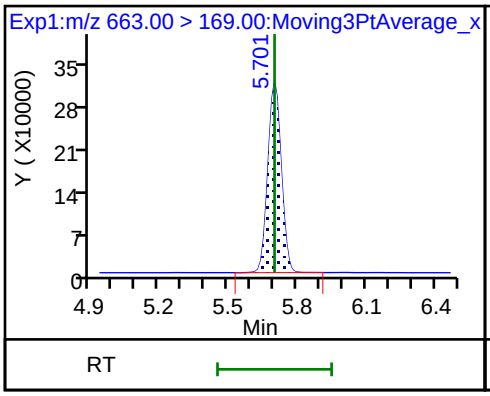
59 PFDoS



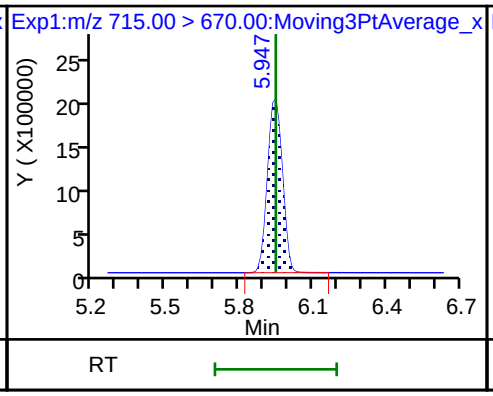
60 Perfluorotridecanoic acid



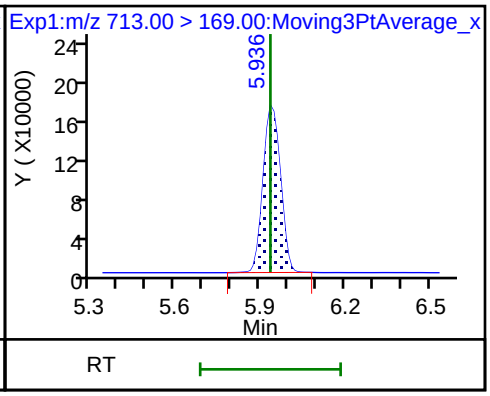
60 Perfluorotridecanoic acid



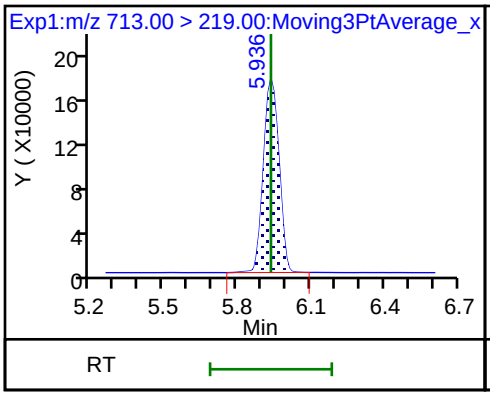
D 61 13C2 PFTeDA



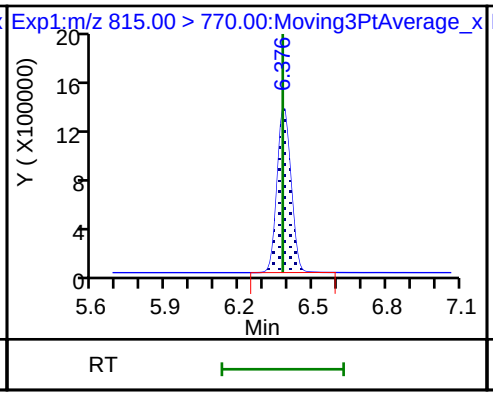
62 Perfluorotetradecanoic acid



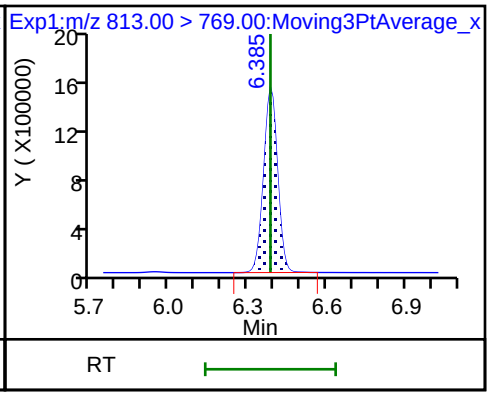
62 Perfluorotetradecanoic acid



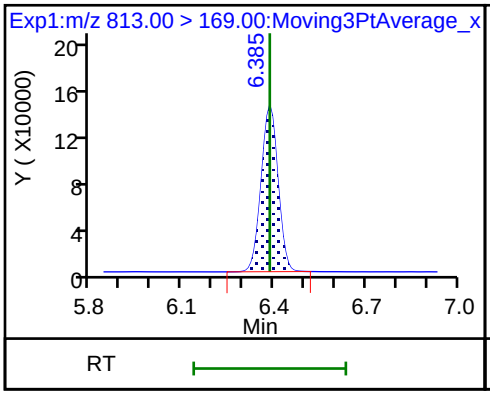
D 64 13C2 PFHxDA



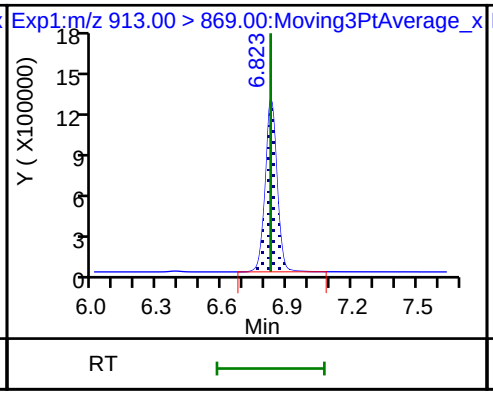
63 Perfluorohexadecanoic acid



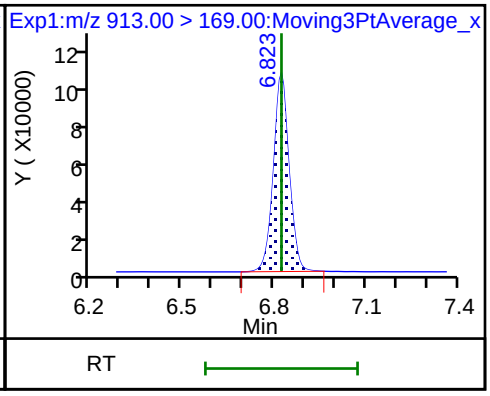
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

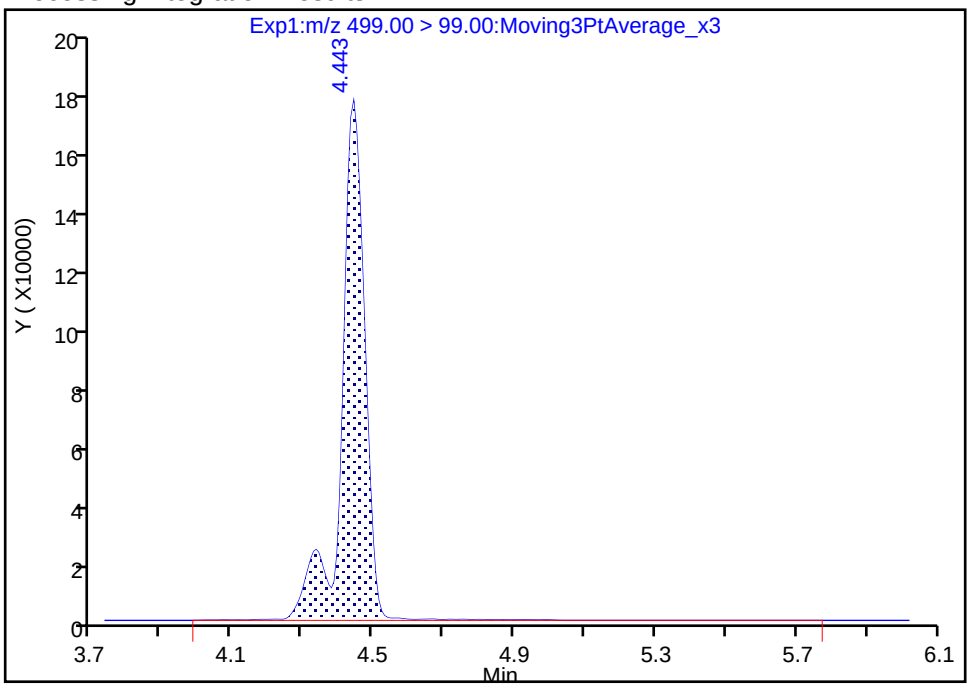
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_085.d
Injection Date: 10-Sep-2020 16:51:37 Instrument ID: A18
Lims ID: CCV L5
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 53 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

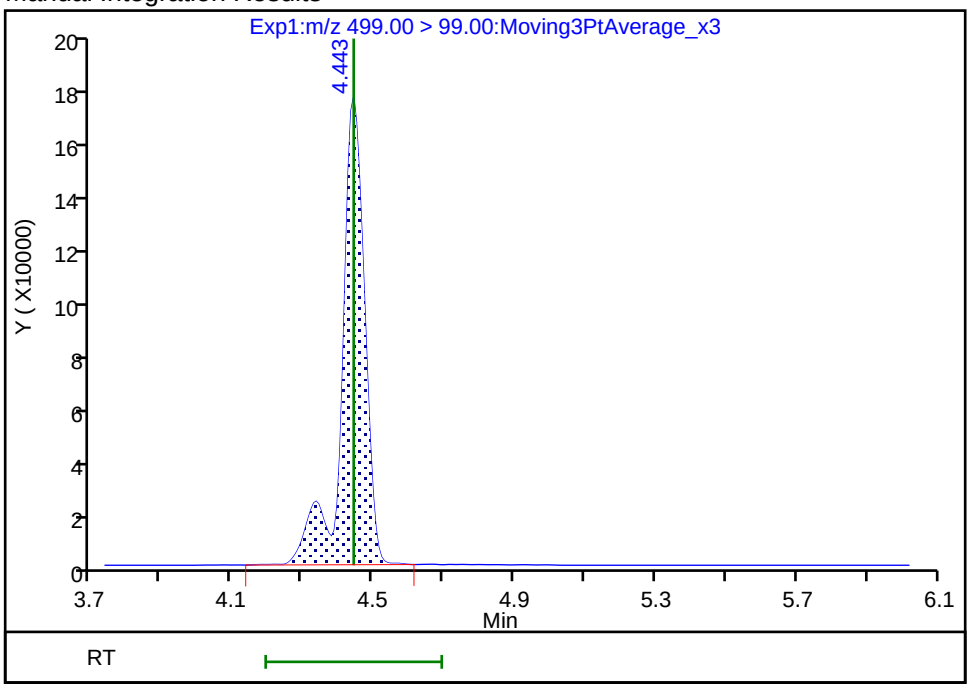
Processing Integration Results

RT: 4.44
Area: 811701
Amount: 1.831639
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 800731
Amount: 2.481610
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:38:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

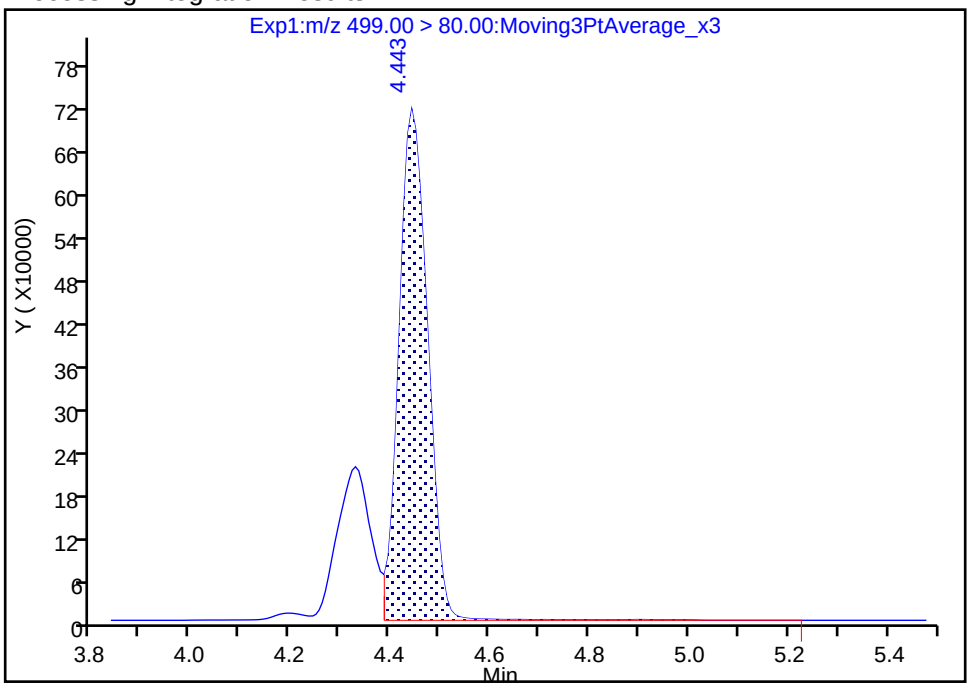
Data File:	\\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_085.d				
Injection Date:	10-Sep-2020 16:51:37	Instrument ID:	A18		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	53	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00 mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

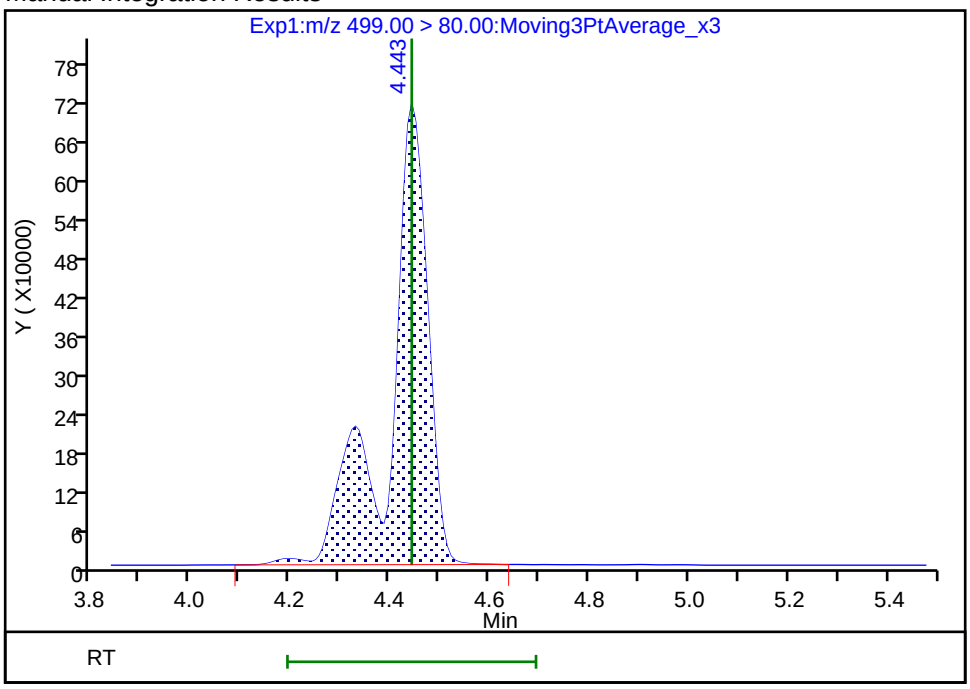
Processing Integration Results

RT: 4.44
Area: 2835622
Amount: 1.831639
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 3841863
Amount: 2.481610
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:38:55
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVL 320-411371/2 Calibration Date: 09/11/2020 11:01

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.8190		0.0472	0.0500	-5.6	50.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.061		0.0532	0.0500	6.4	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	0.9247		0.0405	0.0442	-8.4	50.0
4:2 FTS	AveID	2.273	2.238		0.460	0.467	-1.5	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	0.9779		0.0507	0.0500	1.5	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.7386		0.0437	0.0469	-6.8	50.0
HFPO-DA (GenX)	AveID	0.9742	0.8967		0.0460	0.0500	-8.0	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	0.9376		0.0462	0.0500	-7.5	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.182		0.0455	0.0455	0.0	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	8.884		0.0437	0.0471	-7.3	50.0
6:2 FTS	AveID	2.299	2.394		0.494	0.474	4.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.023		0.0435	0.0476	-8.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.122		0.0550	0.0500	9.9	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.012		0.0453	0.0464	-2.3	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	0.9302		0.0485	0.0500	-3.0	50.0
F-53B Major	AveID	3.236	2.937		0.0423	0.0466	-9.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.8871		0.0477	0.0500	-4.7	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	0.8191		0.0420	0.0480	-12.6	50.0
8:2 FTS	AveID	1.775	1.612		0.435	0.479	-9.2	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.7436		0.0386	0.0500	-22.9	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.5976		0.403	0.500	-19.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.7269		0.0420	0.0482	-13.0	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.6577		0.0453	0.0500	-9.3	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.6060		0.448	0.500	-10.3	50.0
NMeFOSE	AveID	1.080	0.9831		0.0455	0.0500	-8.9	50.0
NMeFOSA	AveID	0.9606	0.9290		0.750	0.0500	-3.3	50.0
F-53B Minor	AveID	4.102	3.309		0.0380	0.0471	-19.3	50.0
NEtFOSE	AveID	1.073	0.9893		0.0461	0.0500	-7.8	50.0
NEtFOSA	AveID	1.058	1.073		1.00	0.0500	1.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	1.079		0.0528	0.0500	5.5	50.0
10:2 FTS	AveID	2.014	2.174		0.0520	0.0482	7.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3044		0.0443	0.0484	-8.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVL 320-411371/2 Calibration Date: 09/11/2020 11:01

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	0.8498		0.0452	0.0500	-9.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.0699		0.0414	0.0500	-17.2	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.334		0.0522	0.0500	4.4	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.7032		0.0532	0.0500	6.5	50.0
13C4 PFBA	Ave	1.585	1.526		2.41	2.50	-3.7	50.0
13C5 PFPeA	Ave	1.233	1.245		2.52	2.50	0.9	50.0
13C3 PFBS	Ave	0.9684	1.024		2.46	2.33	5.8	50.0
M2-4:2 FTS	Ave	0.2333	0.2306		2.31	2.34	-1.2	50.0
13C2 PFHxA	Ave	1.231	1.333		2.71	2.50	8.3	50.0
13C3 HFPO-DA	Ave	0.2518	0.2533		2.52	2.50	0.6	50.0
13C4 PFHpA	Ave	1.051	1.166		2.77	2.50	10.9	50.0
18O2 PFHxS	Ave	0.5117	0.5658		2.62	2.37	10.6	50.0
M2-6:2 FTS	Ave	0.1958	0.1951		2.37	2.38	-0.4	50.0
13C4 PFOA	Ave	1.001	1.125		2.81	2.50	12.4	50.0
13C4 PFOS	Ave	0.3465	0.3743		2.58	2.39	8.0	50.0
13C5 PFNA	Ave	0.8063	0.9695		3.01	2.50	20.3	50.0
13C8 FOSA	Ave	0.5590	0.5974		2.67	2.50	6.9	50.0
13C2 PFDA	Ave	0.7829	1.002		3.20	2.50	28.0	50.0
M2-8:2 FTS	Ave	0.2823	0.2874		2.44	2.40	1.8	50.0
d3-NMeFOSAA	Ave	0.5255	0.5097		2.43	2.50	-3.0	50.0
13C2 PFUnA	Ave	0.7758	0.8180		2.64	2.50	5.4	50.0
d5-NEtFOSAA	Ave	0.5556	0.6040		2.72	2.50	8.7	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1611		14.6	12.5	16.4	50.0
d-N-MeFOSA-M	Ave	0.1965	0.2092		2.66	2.50	6.5	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.2063		15.2	12.5	21.4	50.0
d-N-EtFOSA-M	Ave	0.2011	0.2000		2.49	2.50	-0.6	50.0
13C2 PFDoA	Ave	0.7650	0.8825		2.88	2.50	15.3	50.0
13C2 PFTeDA	Ave	0.6311	0.7193		2.85	2.50	14.0	50.0
13C2 PFHxDA	Ave	0.4618	0.4990		2.70	2.50	8.1	50.0
13C8 PFOA	Ave	0.6756	0.7790		2.82	2.45	15.3	50.0
13C8 PFOS	Ave	0.1082	0.1044		2.31	2.39	-3.5	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 11-Sep-2020 11:01:18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL (26)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 10:00:30 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: fariasa Date: 11-Sep-2020 11:39:31
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.549	2.566	-0.017	0.623	17154784	2.41		96.3	10757	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.549	2.566	-0.017	1.000	280985	0.0472		94.4	12.7	
D 4 13C5 PFPeA										
267.90 > 223.00	2.899	2.920	-0.021	0.709	13991854	2.52		101	6150	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.909	2.920	-0.011	1.004	296768	0.0532		106	13.0	
D 9 13C3 PFBS										
301.90 > 80.00	2.940	2.951	-0.011	0.719	10708011	2.46		106	4459	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.940	2.951	-0.011	1.000	188231	0.0405	Target=2.30	91.6	45.3	
298.90 > 99.00	2.940	2.951	-0.011	1.000	81134		2.32(1.15-3.45)		30.6	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.239	3.251	-0.012	0.792	2421488	2.31		98.8	1149	
8 4:2 FTS										
327.00 > 307.00	3.239	3.251	-0.012	1.000	1083943	0.4598		98.5	4849	
D 11 13C2 PFHxA										
315.00 > 270.00	3.288	3.301	-0.013	0.804	14984517	2.71		108	5331	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.288	3.301	-0.013	1.000	293061	0.0507	Target=13.78	101	20.4	
313.00 > 119.00	3.288	3.301	-0.013	1.000	22177		13.21(6.89-20.66)		12.1	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.299	3.312	-0.013	1.122	159540	0.0437	Target=3.02	93.2	37.0	
349.00 > 99.00	3.299	3.312	-0.013	1.122	58365		2.73(1.51-4.52)		39.8	
13 HPFO-DA										
285.00 > 169.00	3.416	3.418	-0.002	1.000	51067	0.0460		92.0	301	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.416	3.418	-0.002	0.835	2847595	2.51		101	4451	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.701	3.702	-0.001	1.003	245701	0.0462	Target=3.84	92.5	28.8	
363.00 > 169.00	3.701	3.702	-0.001	1.003	63243		3.89(1.92-5.76)		53.6	
D 18 13C4 PFHpA										
367.00 > 322.00	3.691	3.702	-0.011	0.902	13102911	2.77		111	6052	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.701	3.702	-0.001	1.000	136879	0.0455	Target=3.50	100	46.0	M
399.00 > 99.00	3.701	3.702	-0.001	1.000	38909		3.52(1.75-5.25)		25.4	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.701	3.702	-0.001	0.905	6017036	2.61		111	5779	
19 DONA										
377.00 > 251.00	3.741	3.751	-0.010	0.840	704369	0.0437	Target=2.42	92.7	878	
377.00 > 85.00	3.741	3.751	-0.010	0.840	276848		2.54(1.21-3.63)		373	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.067	4.076	-0.009	0.994	2083709	2.37		99.6	1348	
21 6:2 FTS										
427.00 > 407.00	4.067	4.076	-0.009	1.000	995415	0.4935		104	1471	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.091	4.092	-0.001	0.918	81931	0.0435	Target=4.40	91.5	38.9	
449.00 > 99.00	4.083	4.092	-0.009	0.916	19899		4.12(2.20-6.60)		28.5	
$ 26 13C8 PFOA										
421.00 > 376.00	4.083	4.092	-0.009	0.998	8573222	2.82		115	5239	
* 23 13C2 PFOA										
415.00 > 370.00	4.091	4.092	-0.001		11242049	2.50			6002	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.091	4.092	-0.001	1.000	283739	0.0550	Target=2.94	110	36.3	M
413.00 > 169.00	4.091	4.092	-0.001	1.000	96415		2.94(1.47-4.41)		85.6	M
D 25 13C4 PFOA										
417.00 > 372.00	4.091	4.092	-0.001	1.000	12648234	2.81		112	6324	
$ 28 13C8 PFOS										
507.00 > 99.00	4.455	4.454	0.001	1.089	1122322	2.31		96.5	3248	
D 27 13C4 PFOS										
503.00 > 80.00	4.455	4.454	0.001	1.089	4023170	2.58		108	1837	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.455	4.454	0.001	1.000	79009	0.0453	Target=4.53	97.7	32.3	M
499.00 > 99.00	4.455	4.454	0.001	1.000	17660		4.47(2.26-6.79)		23.5	M
D 30 13C5 PFNA										
468.00 > 423.00	4.471	4.478	-0.007	1.093	10899709	3.01		120	7850	
31 Perfluorononanoic acid										
463.00 > 419.00	4.471	4.486	-0.015	1.000	202774	0.0485	Target=8.97	97.0	38.1	
463.00 > 169.00	4.471	4.486	-0.015	1.000	23536		8.62(4.48-13.45)		40.0	
32 9ClFOS										
531.00 > 351.00	4.659	4.658	0.001	1.046	230381	0.0423		90.8	703	
D 33 13C8 FOSA										
506.00 > 78.00	4.787	4.794	-0.007	1.170	6716090	2.67		107	5495	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.787	4.794	-0.007	1.000	119151	0.0477		95.3	695	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.804	4.803	0.001	1.078	66186	0.0420	Target=2.85	87.4	53.6	
549.00 > 99.00	4.804	4.803	0.001	1.078	24524		2.70(1.43-4.28)		49.7	
D 39 13C2 PFDA										
515.00 > 470.00	4.830	4.828	0.002	1.180	11262577	3.20		128	12078	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.838	4.828	0.010	1.002	167488	0.0386	Target=10.16	77.1	51.3	
513.00 > 169.00	4.830	4.828	0.002	1.000	16491		10.16(5.08-15.24)		29.3	
36 8:2 FTS										
527.00 > 507.00	4.830	4.837	-0.007	0.998	997618	0.4349		90.8	4170	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.838	4.837	0.001	1.183	3095066	2.44		102	1907	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.001	5.000	0.001	1.222	5730564	2.43		97.0	3295	
41 NMeFOSAA										
570.00 > 419.00	5.001	5.000	0.001	1.000	684870	0.4029		80.6	701	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.130	5.130	0.0	1.151	58976	0.0420	Target=2.77	87.0	62.0	
599.00 > 99.00	5.121	5.130	-0.009	1.149	20629		2.86(1.38-4.15)		55.7	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.157	5.148	0.009	1.000	120957	0.0453	Target=8.43	90.7	50.0	
563.00 > 169.00	5.148	5.148	0.0	0.998	12881		9.39(4.22-12.65)		29.9	
D 43 13C2 PFUnA										
565.00 > 520.00	5.157	5.157	0.0	1.260	9195611	2.64		105	7521	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.166	5.166	0.0	1.263	6789722	2.72		109	3006	
46 NEtFOSA										
584.00 > 419.00	5.166	5.166	0.0	1.000	822892	0.4483		89.7	1634	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.239	5.248	-0.009	1.281	9052857	14.5		116	3417	
48 N-MeFOSE-M										
616.00 > 59.00	5.249	5.258	-0.009	1.002	35601	0.0455		91.1	53.7	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.259	5.269	-0.010	1.285	2351820	2.66		106	44.5	
50 NMeFOSA										
512.00 > 169.00	5.269	5.279	-0.010	1.002	43695	0.0484		96.7	54.6	
51 11ClFOS										
631.00 > 451.00	5.300	5.299	0.001	1.190	262374	0.0380		80.7	1679	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.415	5.426	-0.011	1.324	11598704	15.2		121	5740	
53 N-EtFOSE-M										
630.00 > 59.00	5.426	5.437	-0.011	1.002	45900	0.0461		92.2	68.4	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.437	5.447	-0.010	1.329	2248255	2.49		99.4	396	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.448	5.447	0.001	1.000	214137	0.0528	Target=9.12	106	89.5	
613.00 > 169.00	5.448	5.447	0.001	1.000	20936		10.23(4.56-13.69)		49.0	
55 N-EtFOSA-M										
526.00 > 169.00	5.448	5.458	-0.010	1.002	48254	0.0507		101	37.2	
D 56 13C2 PFDoA										
615.00 > 570.00	5.448	5.458	-0.010	1.332	9920565	2.88		115	7042	
58 10:2 FTS										
627.00 > 607.00	5.469	5.469	0.0	1.130	135417	0.0520		108	1436	
59 PFDoS										
699.00 > 80.00	5.679	5.678	0.001	1.275	24803	0.0443	Target=0.72	91.5	29.6	
699.00 > 99.00	5.679	5.678	0.001	1.275	33303		0.74(0.36-1.07)		139	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.723	5.722	0.001	1.050	168603	0.0452	Target=6.78	90.3	122	
663.00 > 169.00	5.723	5.722	0.001	1.050	23130		7.29(3.39-10.17)		64.6	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.971	5.959	0.012	1.002	11297	0.0414	Target=0.85	82.8	64.1	
713.00 > 219.00	5.959	5.959	0.0	1.000	15919		0.71(0.43-1.28)		132	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.959	5.959	0.0	1.457	8086275	2.85		114	6778	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.412	6.402	0.010	1.567	5610045	2.70		108	5302	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.420	6.411	0.009	1.001	149701	0.0522	Target=10.21	104	129	
813.00 > 169.00	6.412	6.411	0.001	1.000	15838		9.45(5.11-15.32)		148	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.875	6.850	0.025	1.072	78901	0.0532	Target=12.45	106	102	
913.00 > 169.00	6.875	6.850	0.025	1.072	6650		11.86(6.22-18.67)		117	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LLCCVL_00026 Amount Added: 1.00 Units: mL

Report Date: 14-Sep-2020 10:00:32 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d

Injection Date: 11-Sep-2020 11:01:18 Instrument ID: A18

Lims ID: CCVL

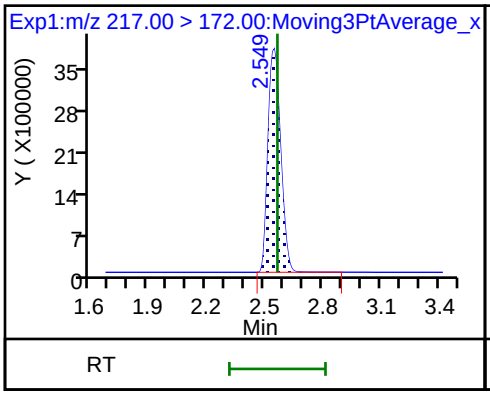
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2

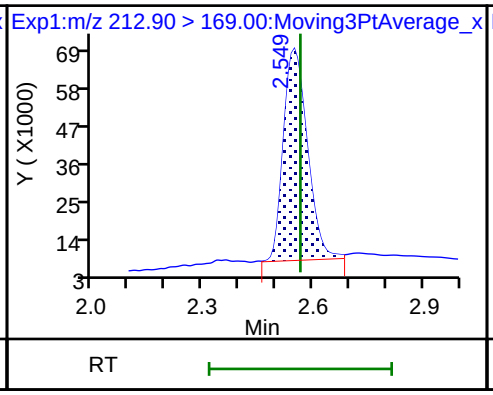
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

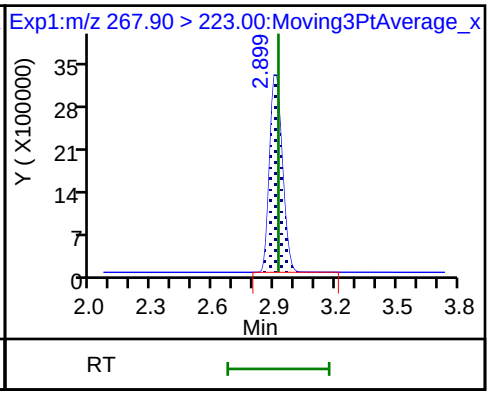
D 1 13C4 PFBA



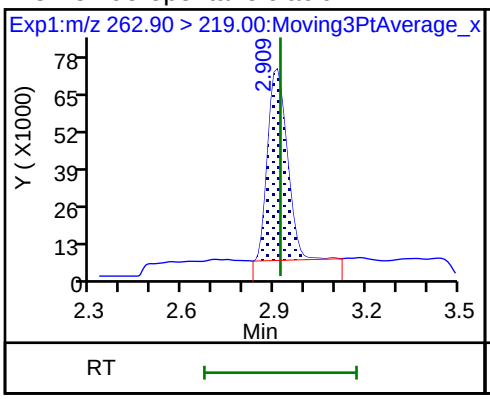
2 Perfluorobutanoic acid



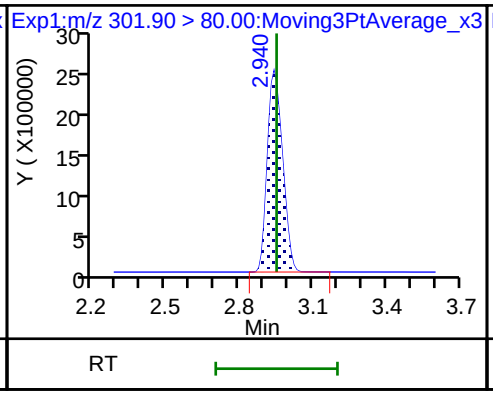
D 4 13C5 PFPeA



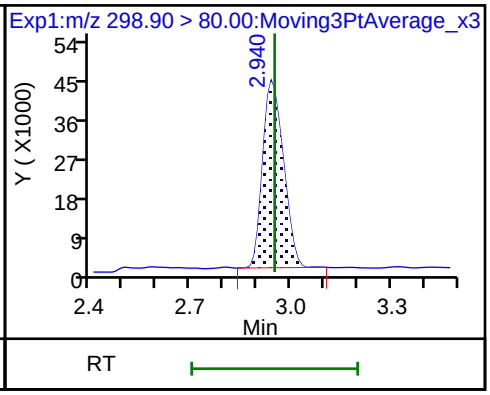
5 Perfluoropentanoic acid



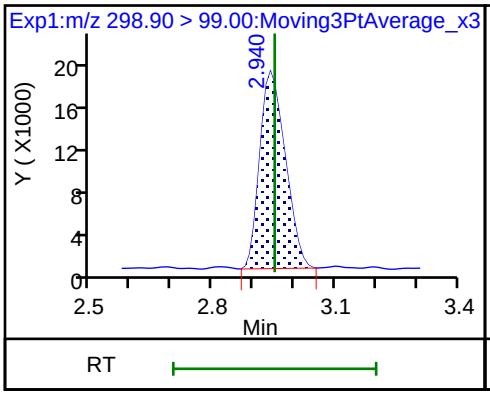
D 9 13C3 PFBS



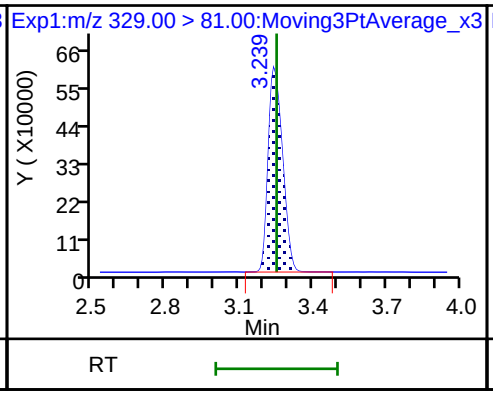
6 Perfluorobutanesulfonic acid



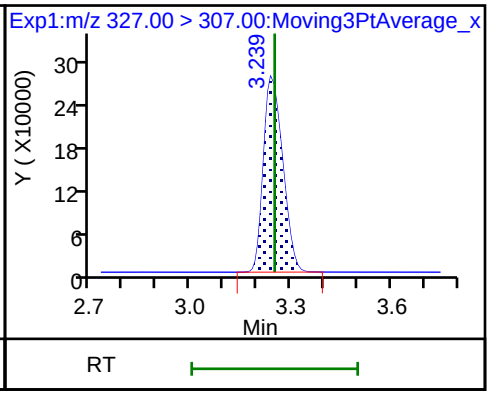
6 Perfluorobutanesulfonic acid



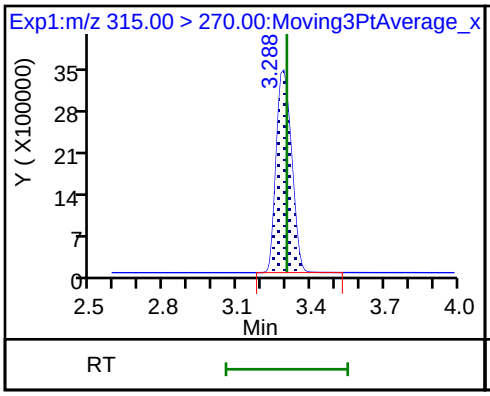
D 7 M2-4:2 FTS



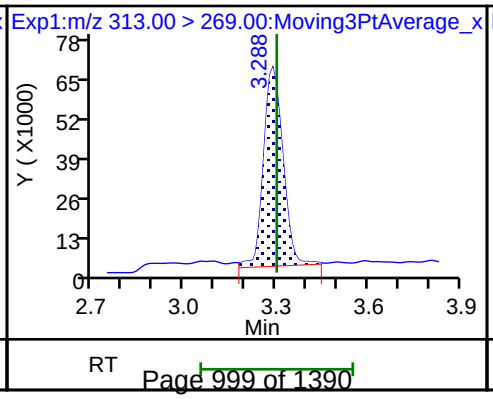
8 4:2 FTS



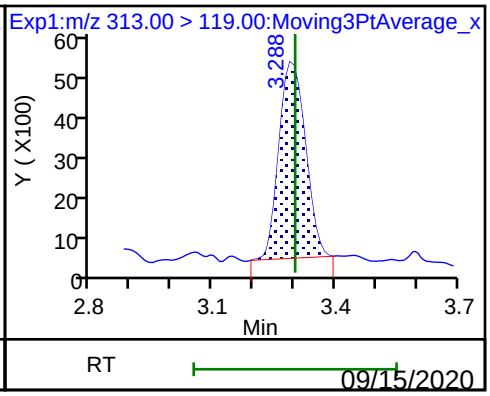
D 11 13C2 PFHxA



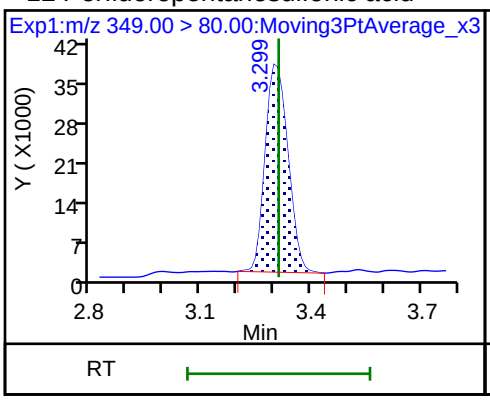
10 Perfluorohexanoic acid



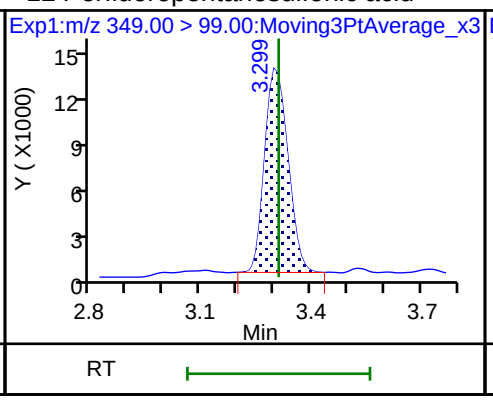
10 Perfluorohexanoic acid



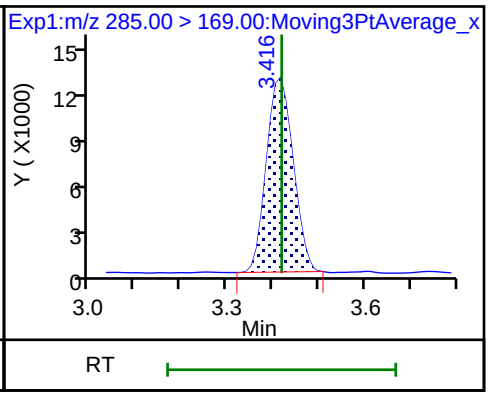
12 Perfluoropentanesulfonic acid



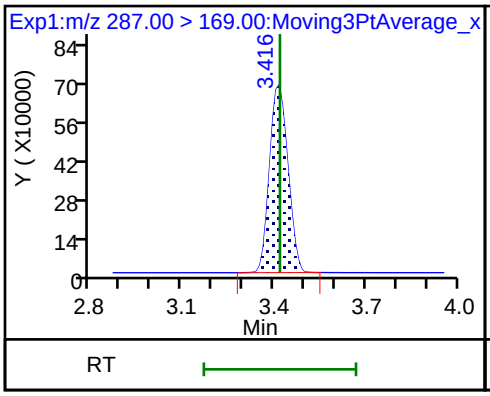
12 Perfluoropentanesulfonic acid



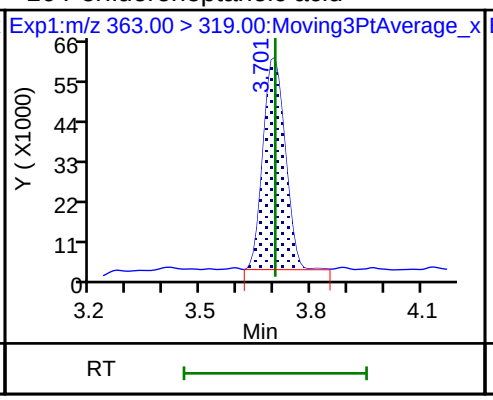
13 HPFO-DA



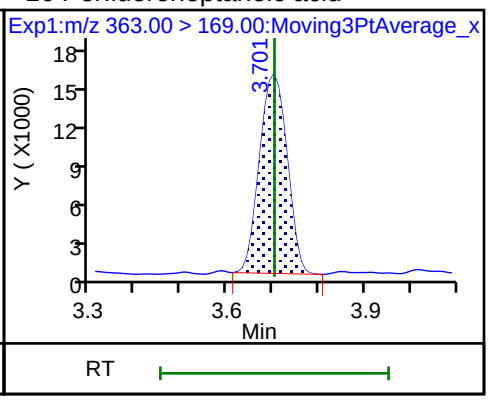
D 14 13C3 HFPO-DA



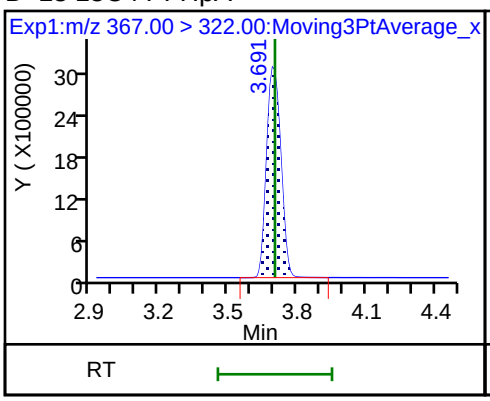
16 Perfluoroheptanoic acid



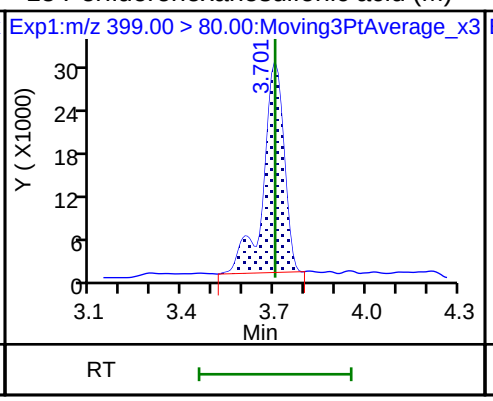
16 Perfluoroheptanoic acid



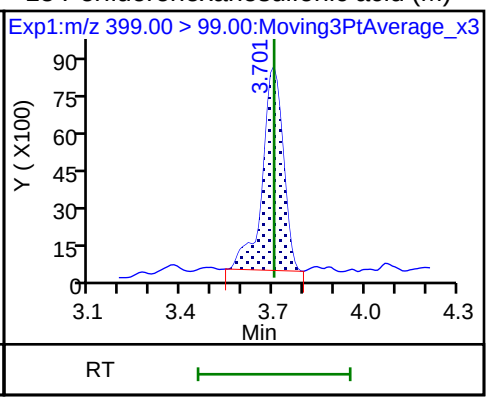
D 18 13C4 PFHpA



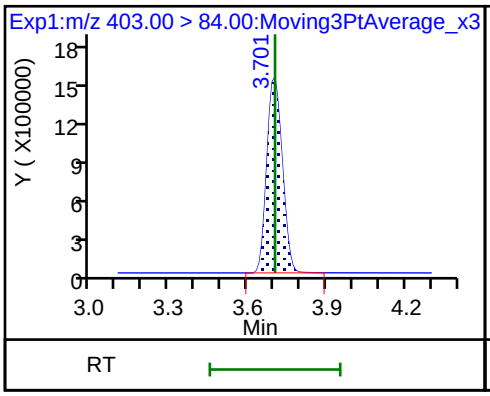
15 Perfluorohexanesulfonic acid (M)



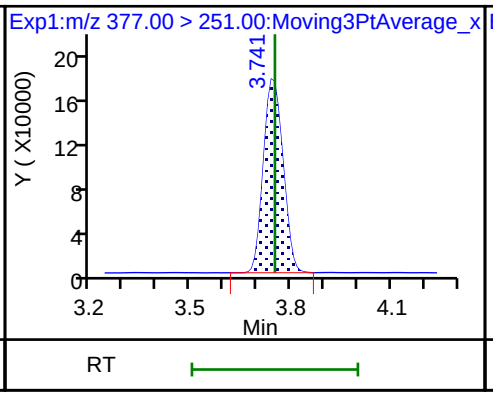
15 Perfluorohexanesulfonic acid (M)



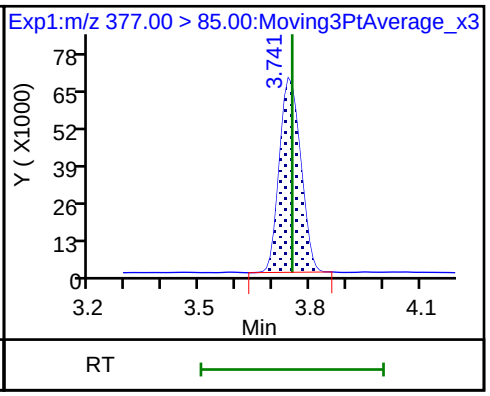
D 17 18O2 PFHxS



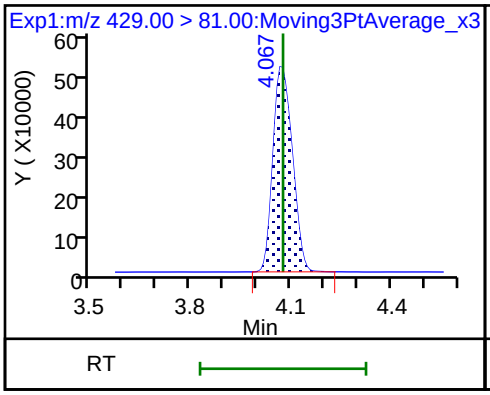
19 DONA



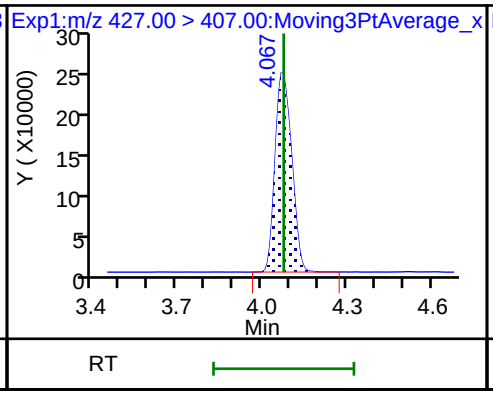
19 DONA



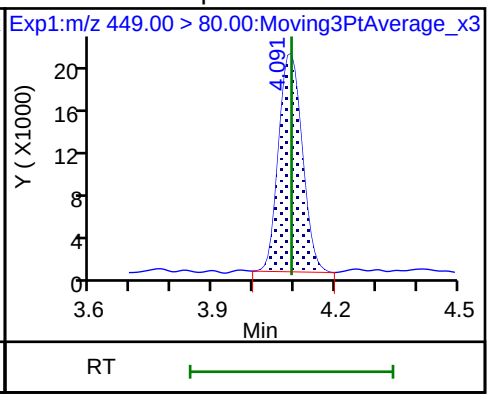
D 20 M2-6:2 FTS



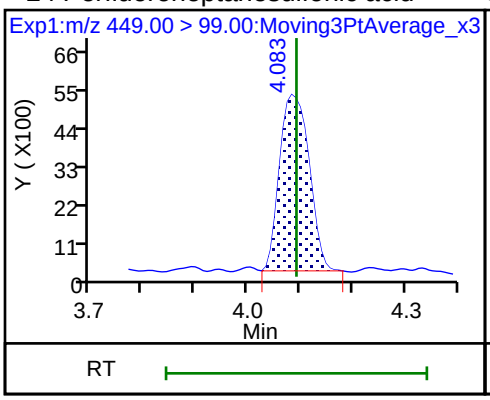
21 6:2 FTS



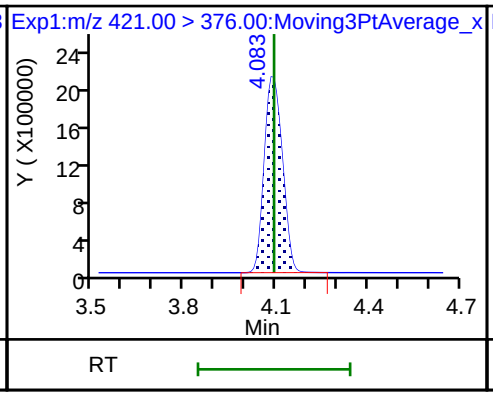
24 Perfluoroheptanesulfonic acid



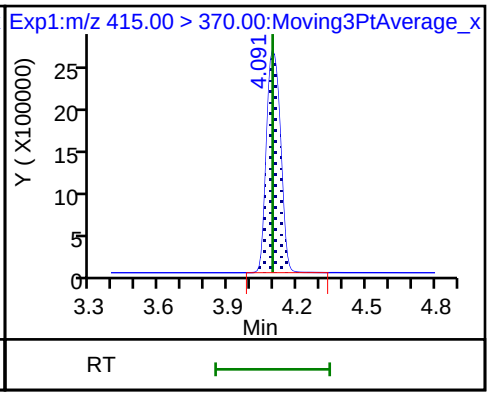
24 Perfluoroheptanesulfonic acid



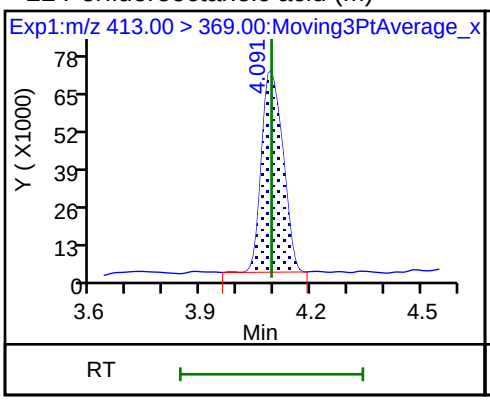
$ 26 13C8 PFOA



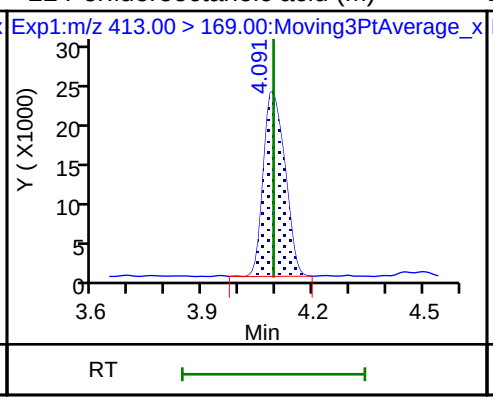
* 23 13C2 PFOA



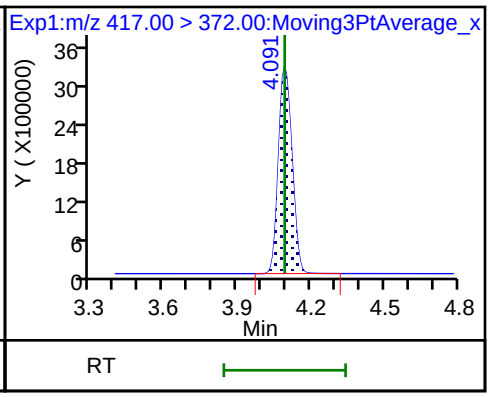
22 Perfluorooctanoic acid (M)



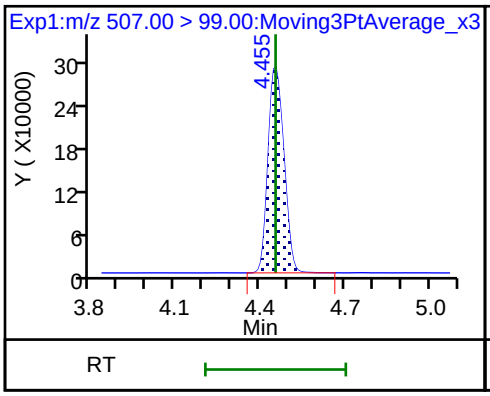
22 Perfluorooctanoic acid (M)



D 25 13C4 PFOA



$ 28 13C8 PFOS



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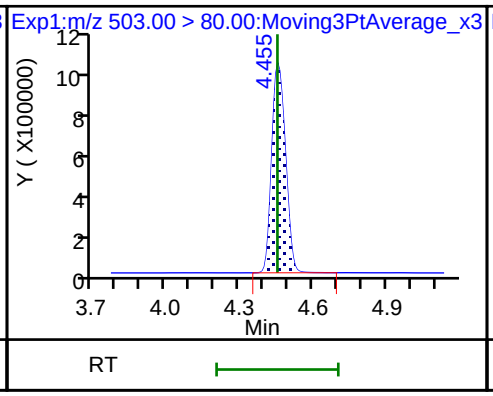
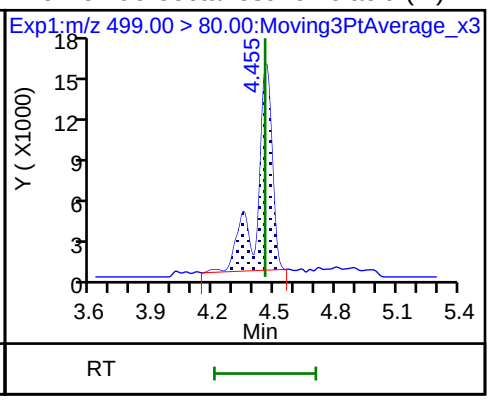
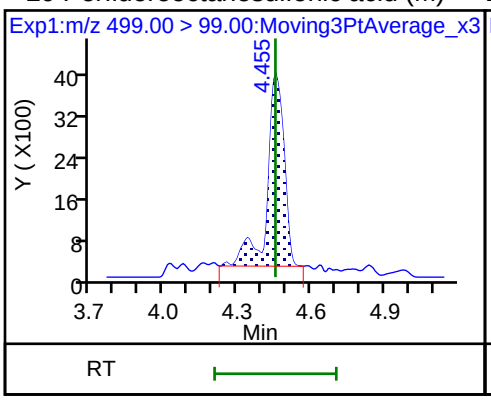


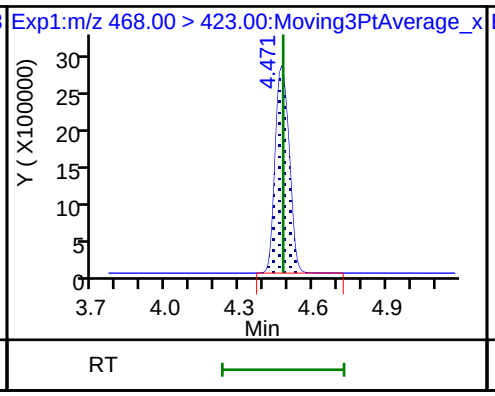
29 Perfluorooctanesulfonic acid (M)



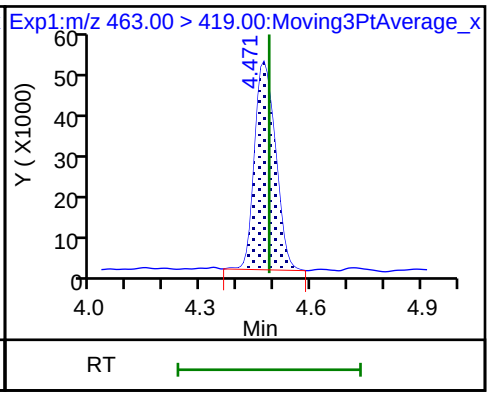
29 Perfluorooctanesulfonic acid (M)



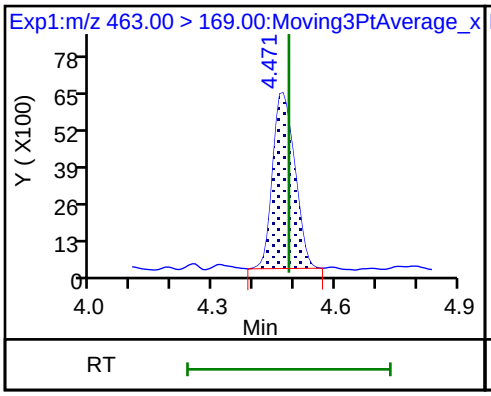
D 30 13C5 PFNA



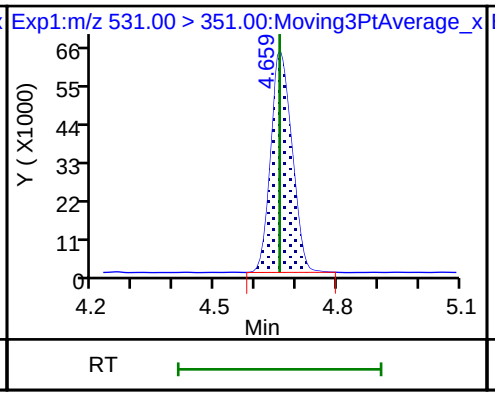
31 Perfluorononanoic acid



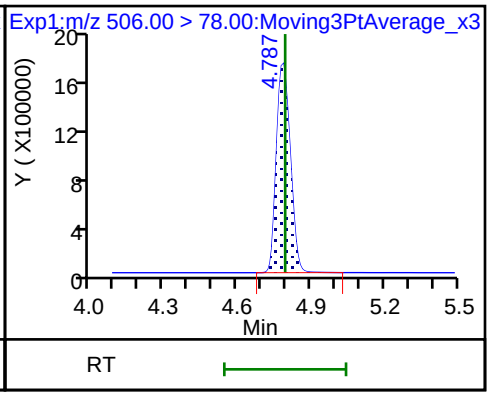
31 Perfluorononanoic acid



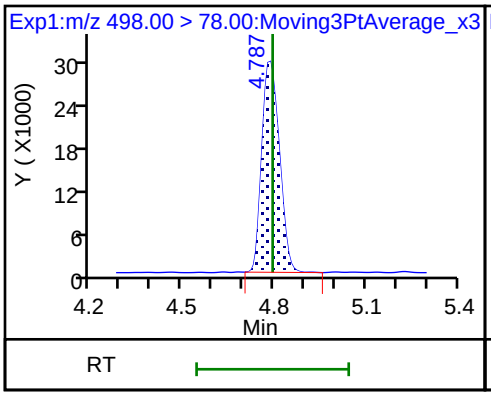
32 9ClFOS



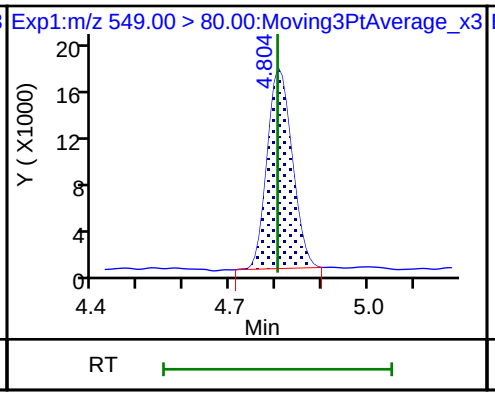
D 33 13C8 FOSA



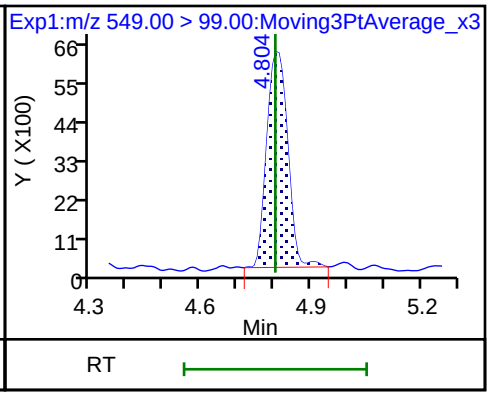
34 Perfluorooctanesulfonamide



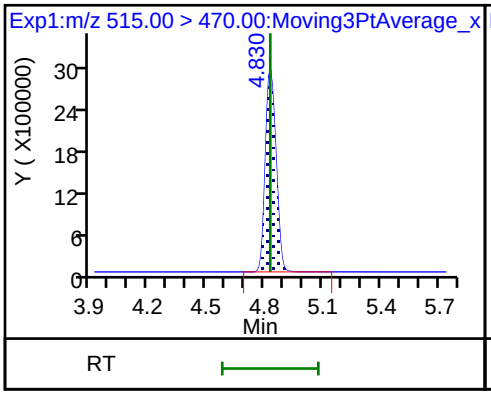
35 Perfluorononanesulfonic acid



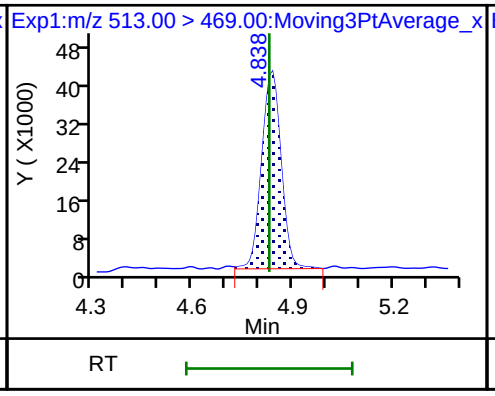
35 Perfluorononanesulfonic acid



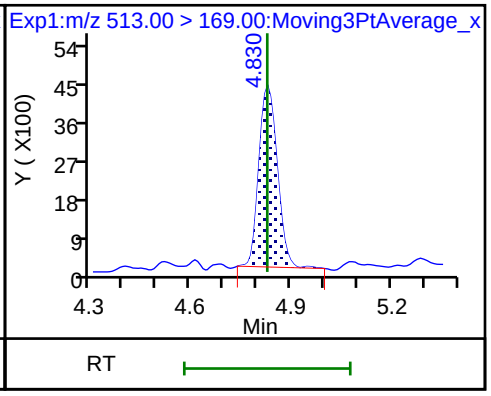
D 39 13C2 PFDA



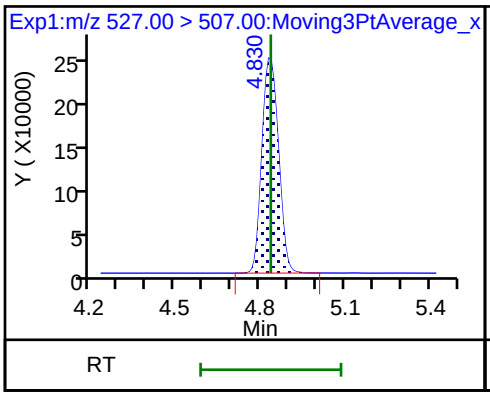
37 Perfluorodecanoic acid



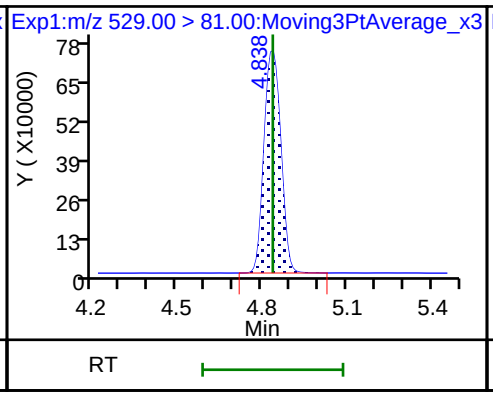
37 Perfluorodecanoic acid



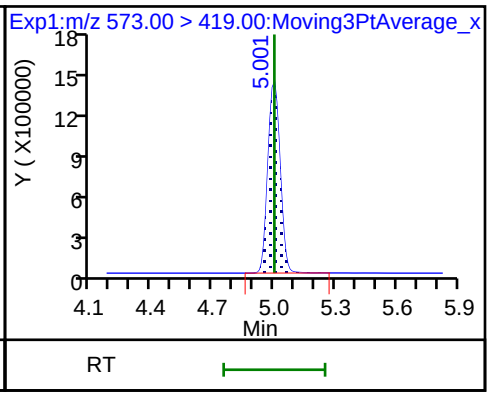
36 8:2 FTS



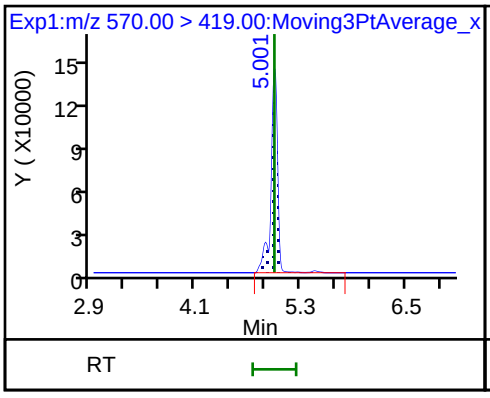
D 38 M2-8:2 FTS



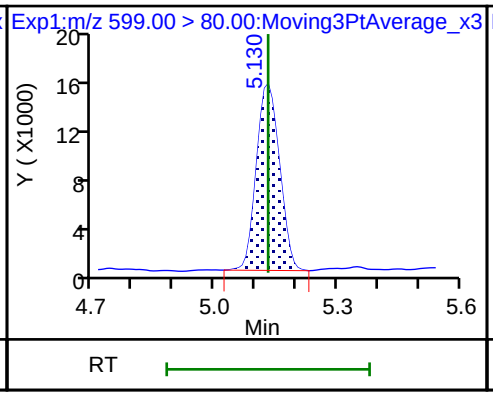
D 40 d3-NMeFOSAA



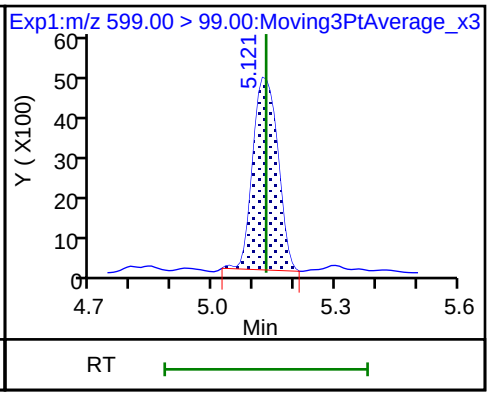
41 NMeFOSAA



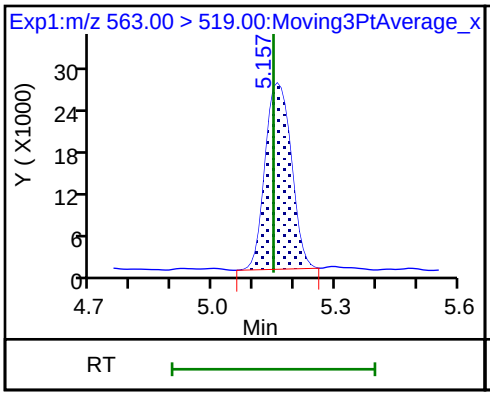
42 Perfluorodecanesulfonic acid



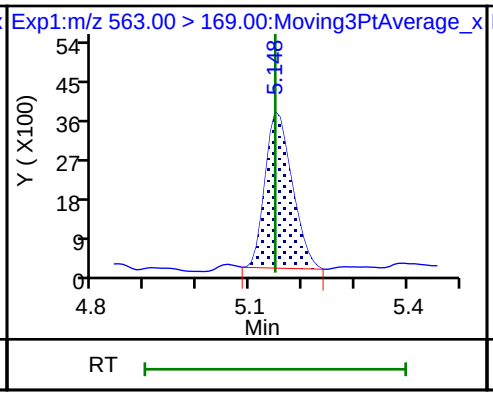
42 Perfluorodecanesulfonic acid



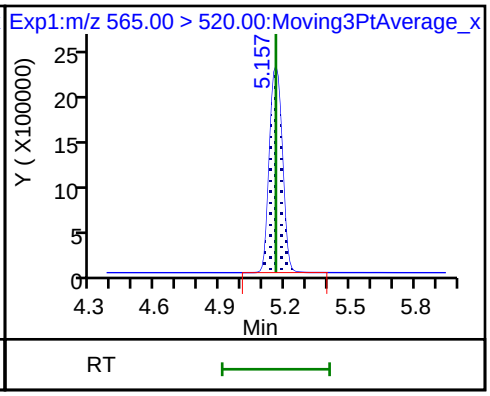
45 Perfluoroundecanoic acid



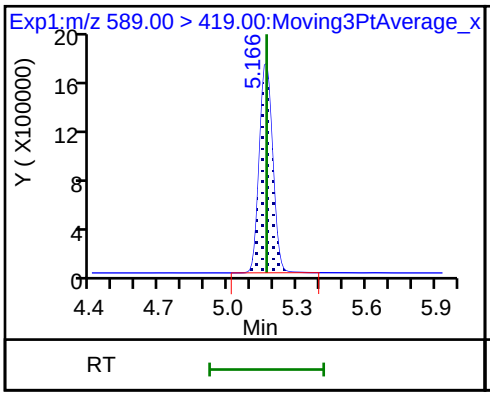
45 Perfluoroundecanoic acid



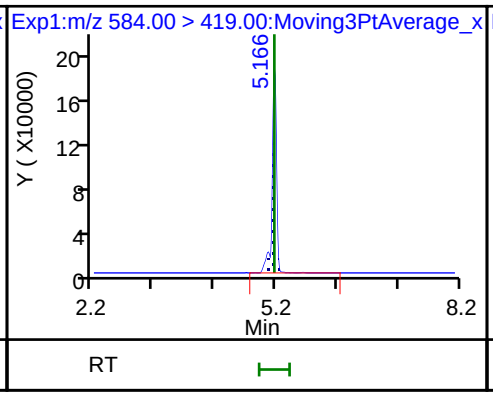
D 43 13C2 PFUnA



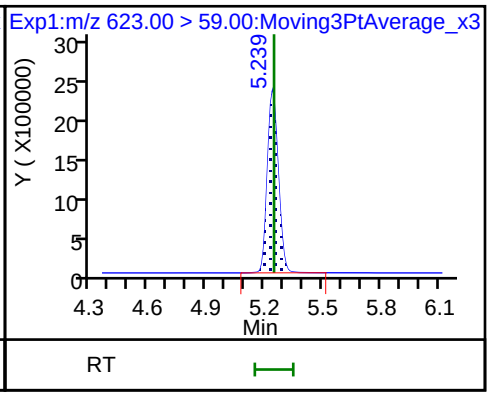
D 44 d5-NEtFOSAA



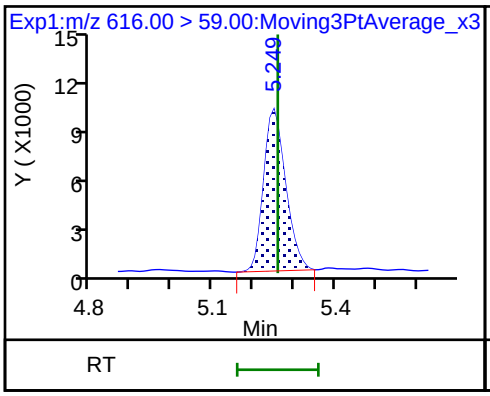
46 NEtFOSA



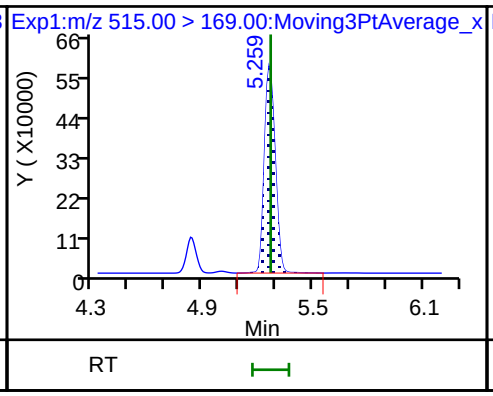
D 47 d7-N-MeFOSE-M



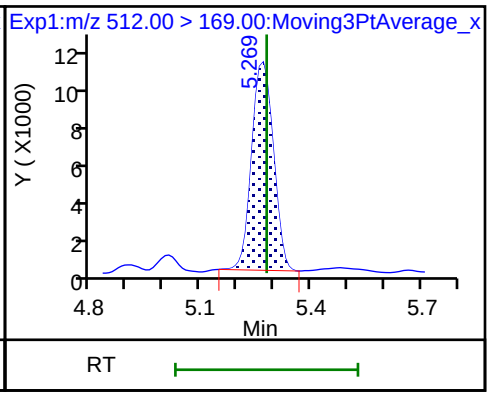
48 N-MeFOSE-M



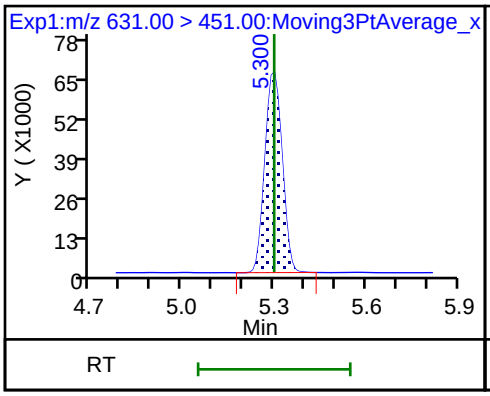
D 49 d-N-MeFOSA-M



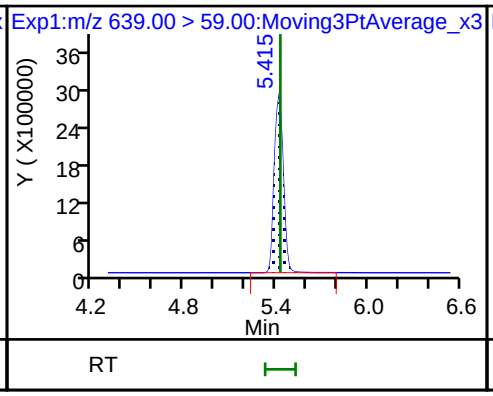
50 NMeFOSA



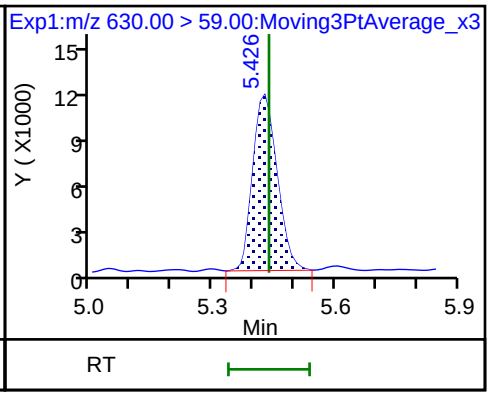
51 11ClFOS



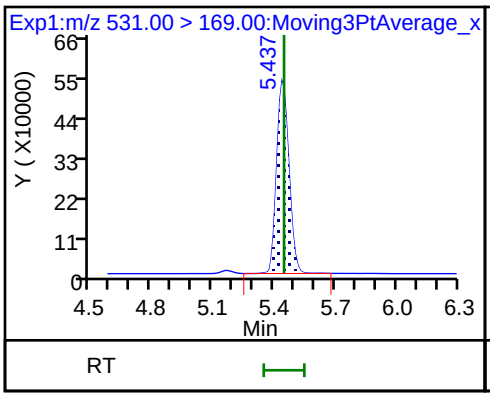
D 52 d9-N-EtFOSE-M



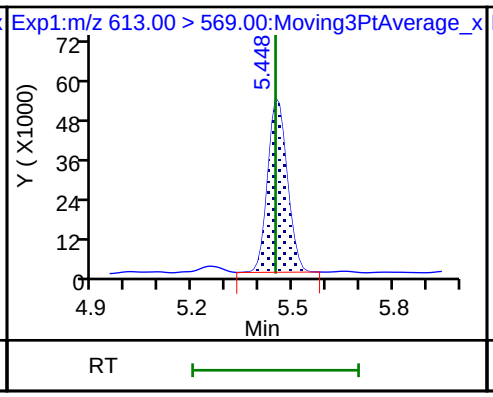
53 N-EtFOSE-M



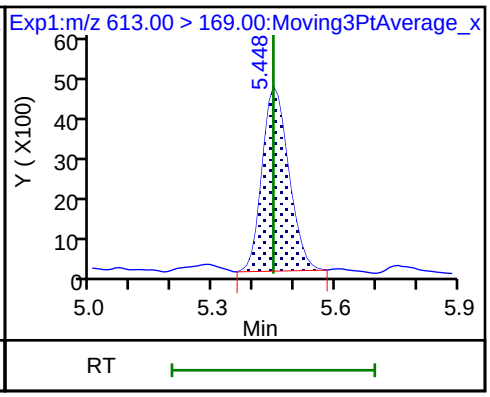
D 54 d-N-EtFOSA-M



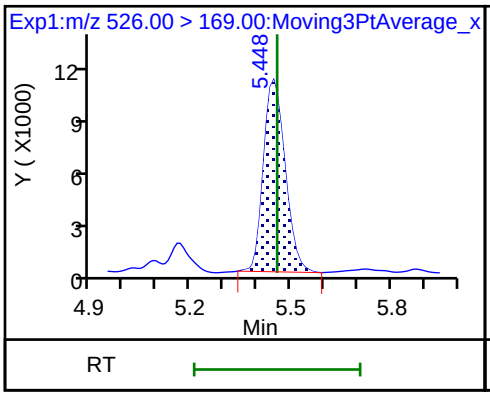
57 Perfluorododecanoic acid



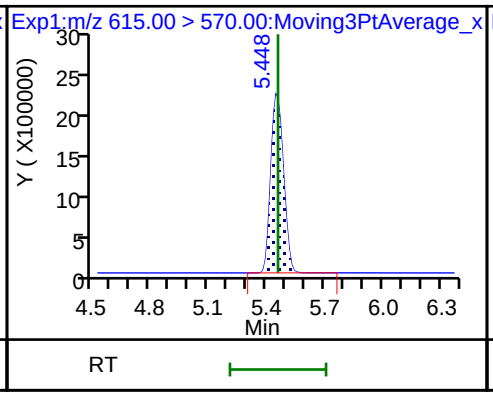
57 Perfluorododecanoic acid



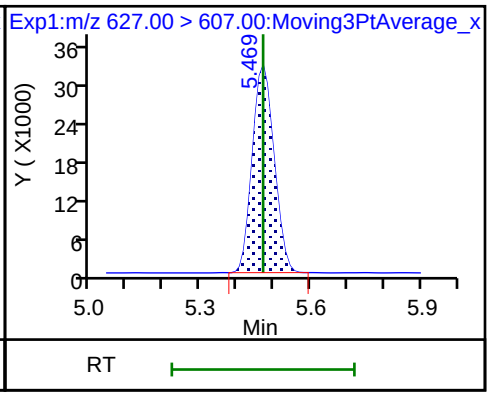
55 N-EtFOSA-M



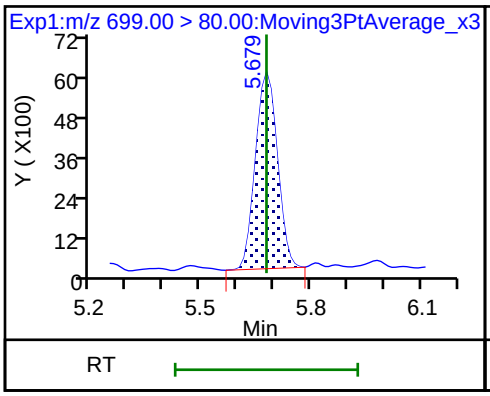
D 56 13C2 PFDoA



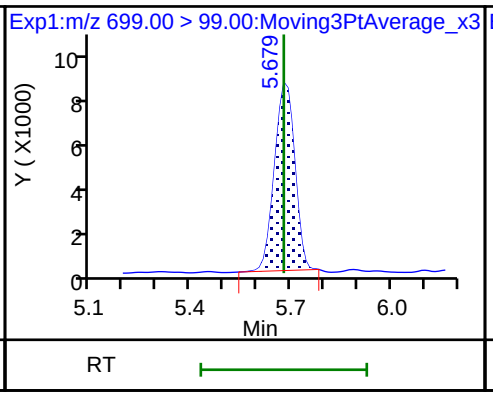
58 10:2 FTS



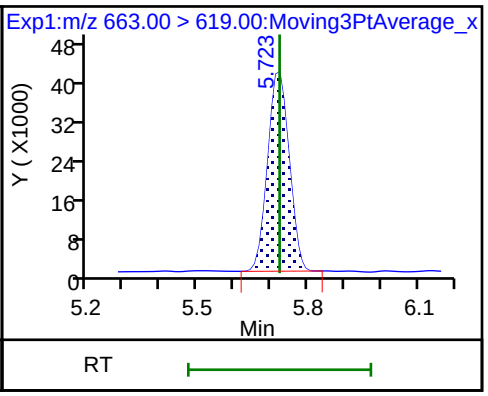
59 PFDoS



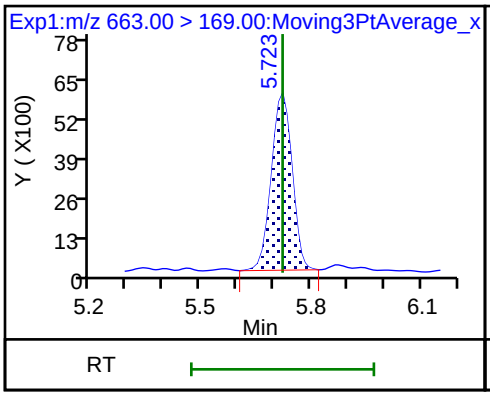
59 PFDoS



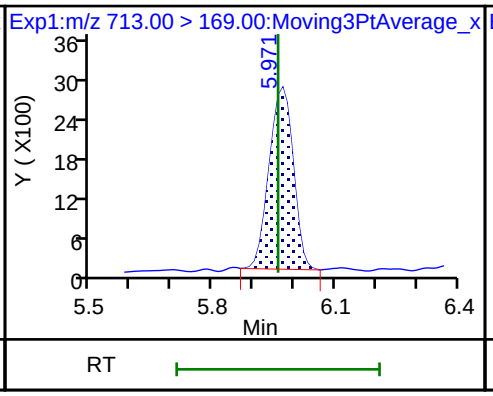
60 Perfluorotridecanoic acid



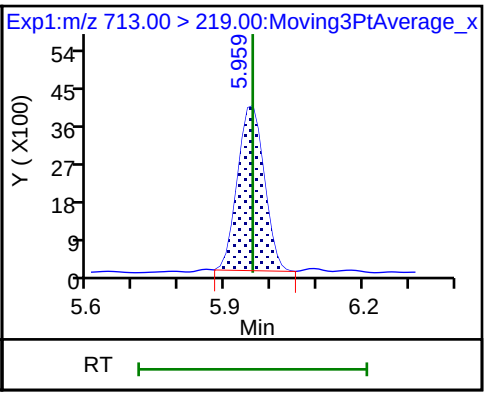
60 Perfluorotridecanoic acid



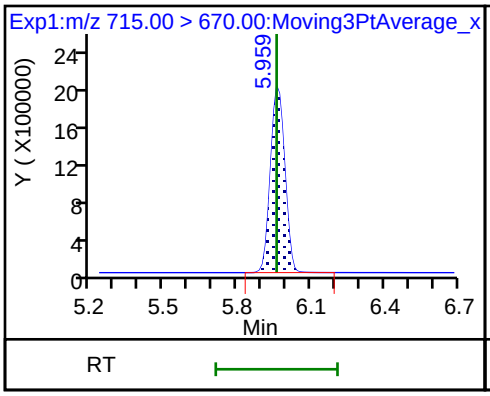
62 Perfluorotetradecanoic acid



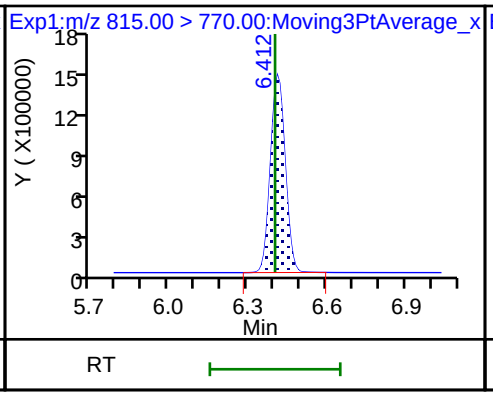
62 Perfluorotetradecanoic acid



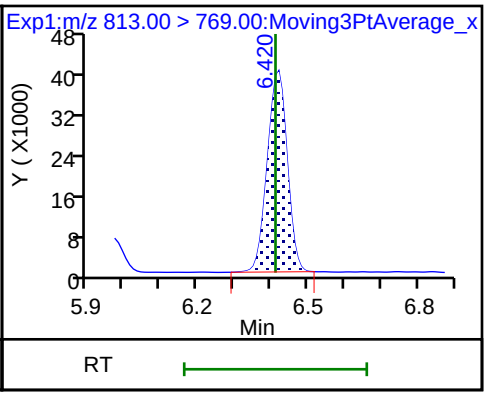
D 61 13C2 PFTeDA



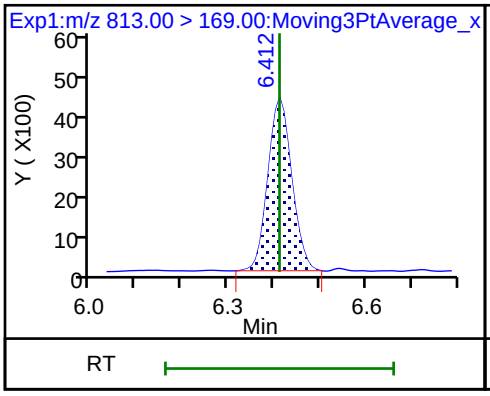
D 64 13C2 PFHxDA



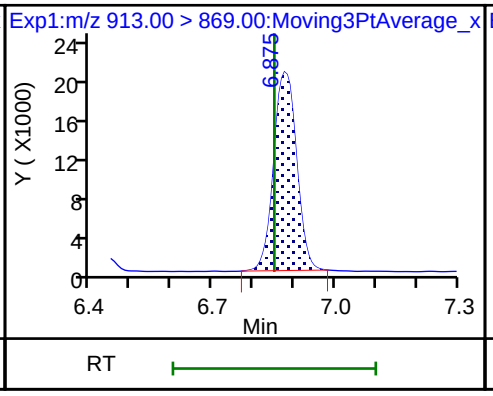
63 Perfluorohexadecanoic acid



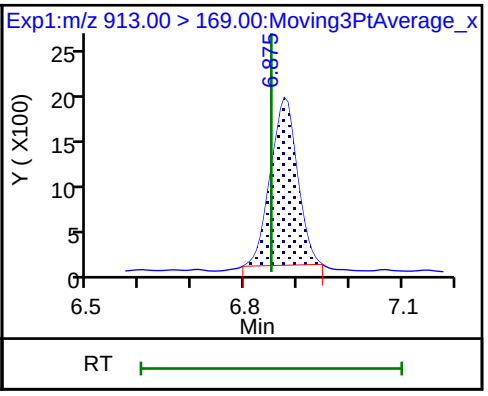
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

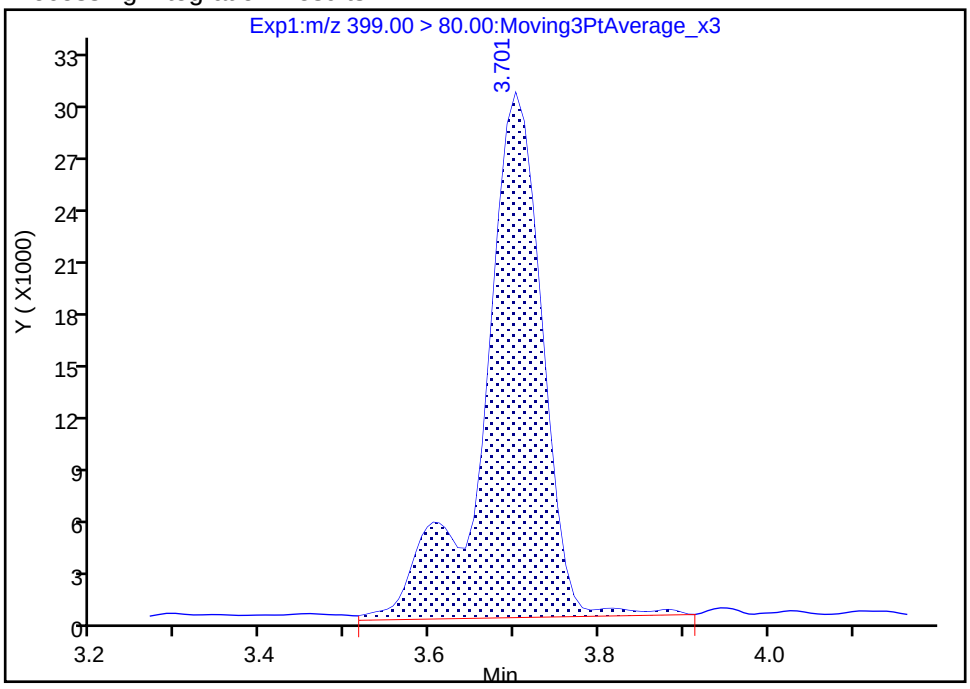
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d
Injection Date: 11-Sep-2020 11:01:18 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

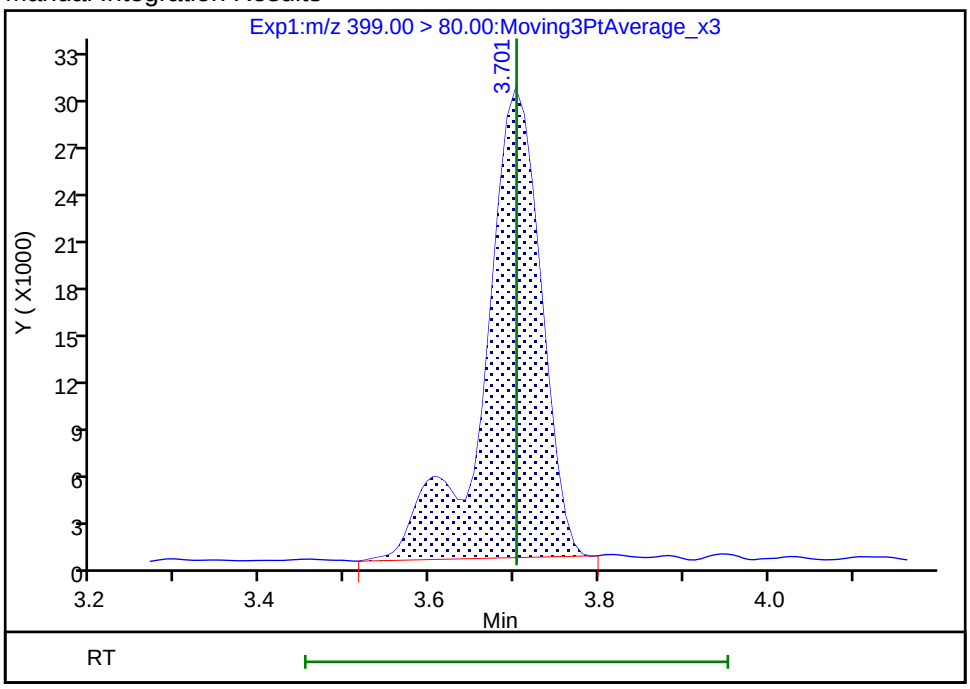
Processing Integration Results

RT: 3.70
Area: 143792
Amount: 0.047837
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 136879
Amount: 0.045538
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:59:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

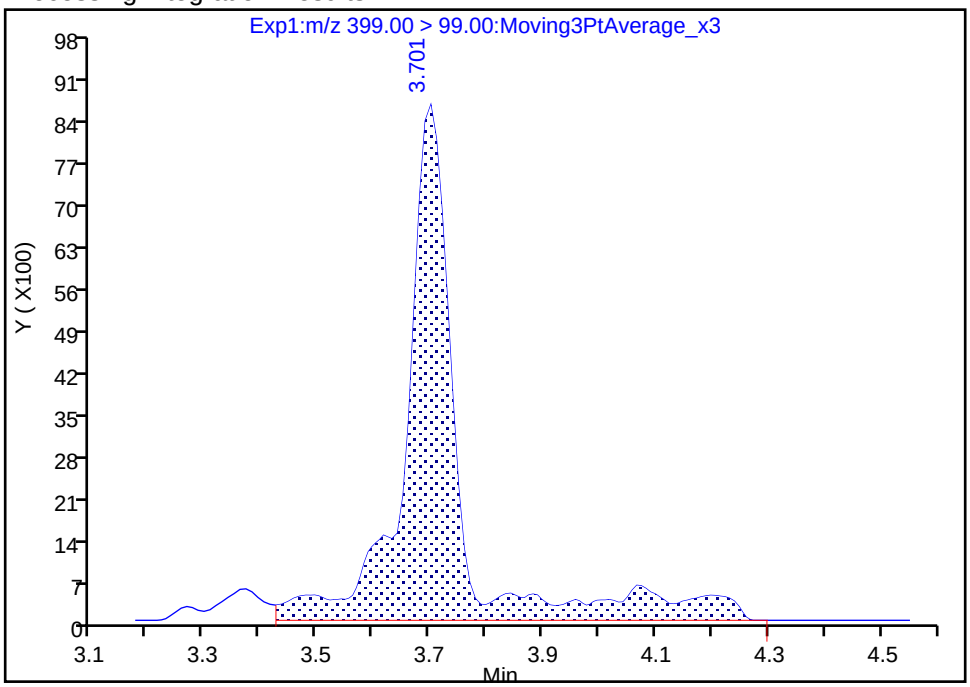
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d
Injection Date: 11-Sep-2020 11:01:18 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

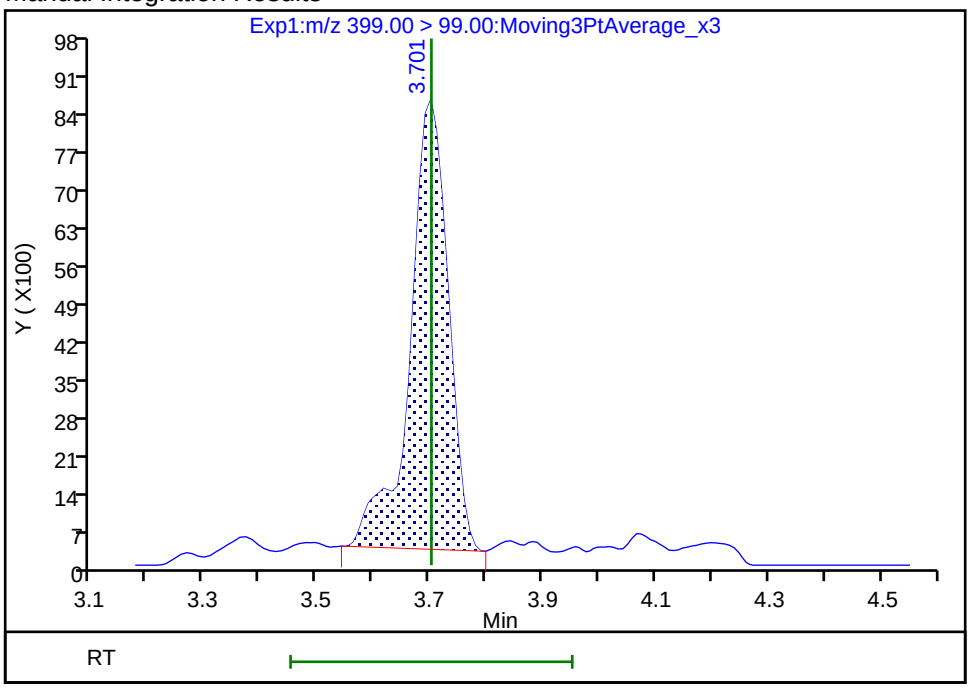
Processing Integration Results

RT: 3.70
Area: 55899
Amount: 0.047837
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 38909
Amount: 0.045538
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:59:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

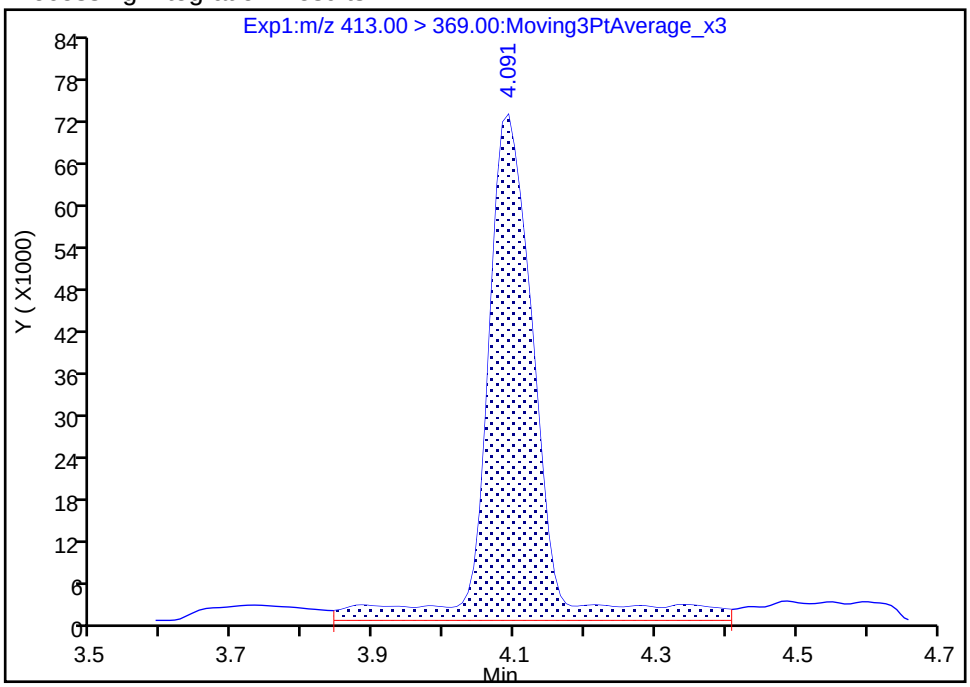
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d
Injection Date: 11-Sep-2020 11:01:18 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

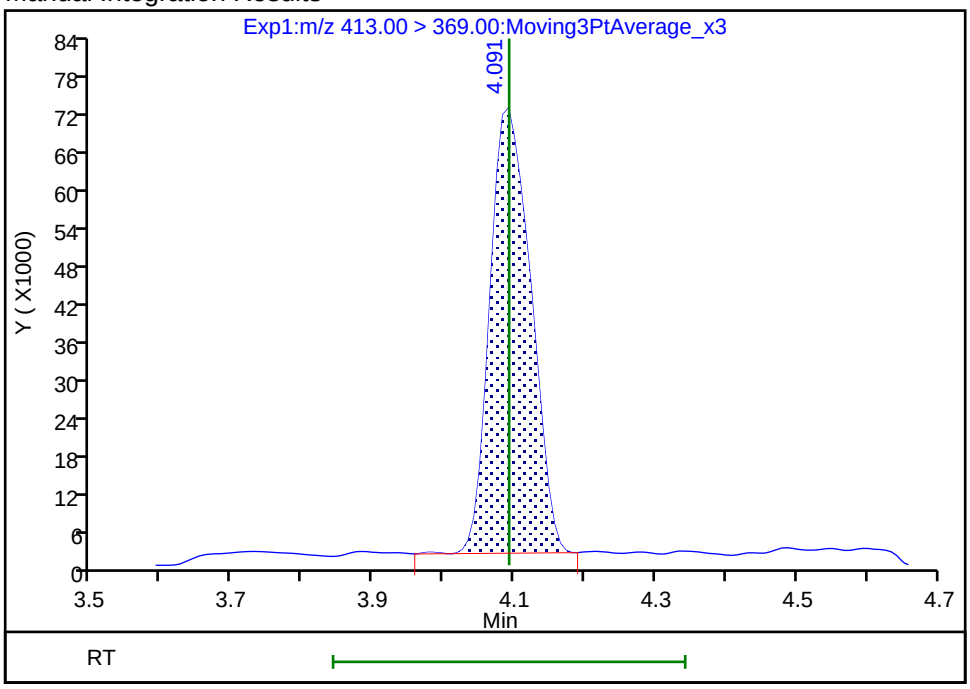
Processing Integration Results

RT: 4.09
Area: 349457
Amount: 0.067692
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 283739
Amount: 0.054962
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:59:50
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

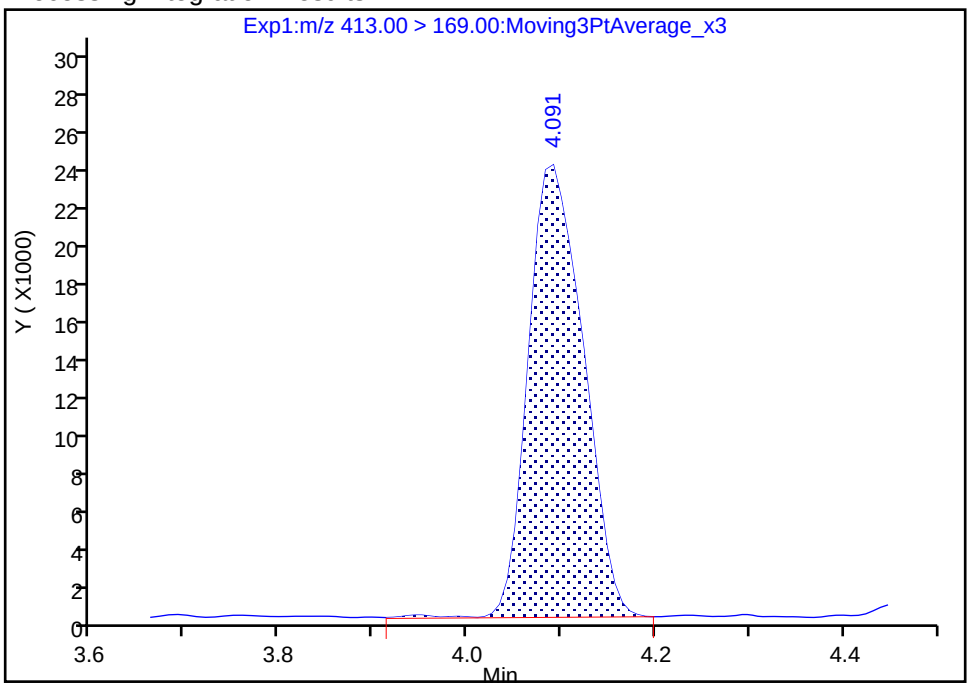
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d
Injection Date: 11-Sep-2020 11:01:18 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

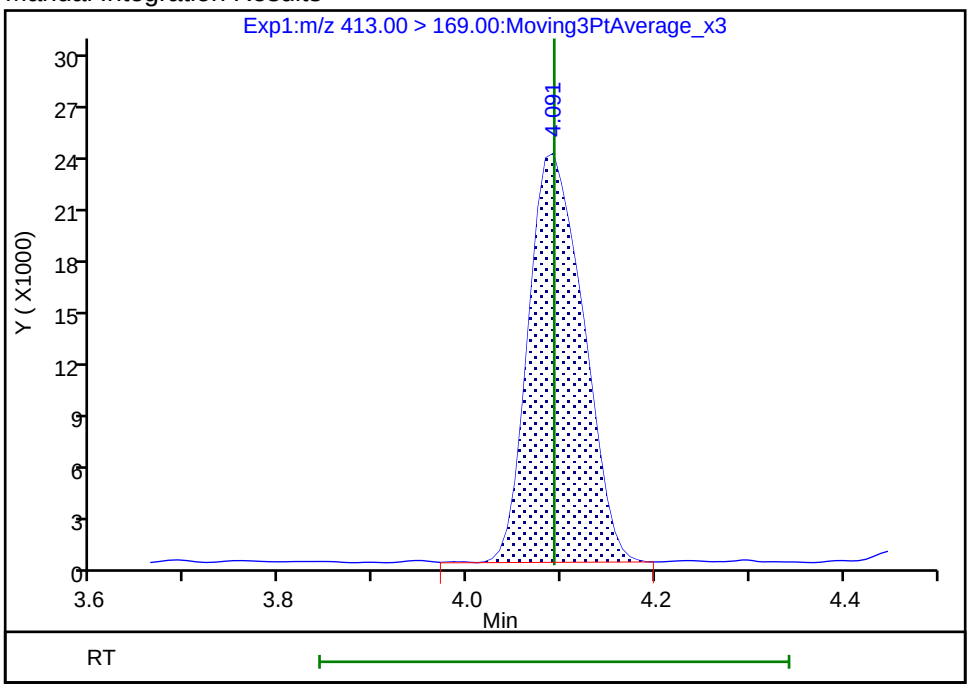
Processing Integration Results

RT: 4.09
Area: 96937
Amount: 0.067692
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 96415
Amount: 0.054962
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:00:04
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

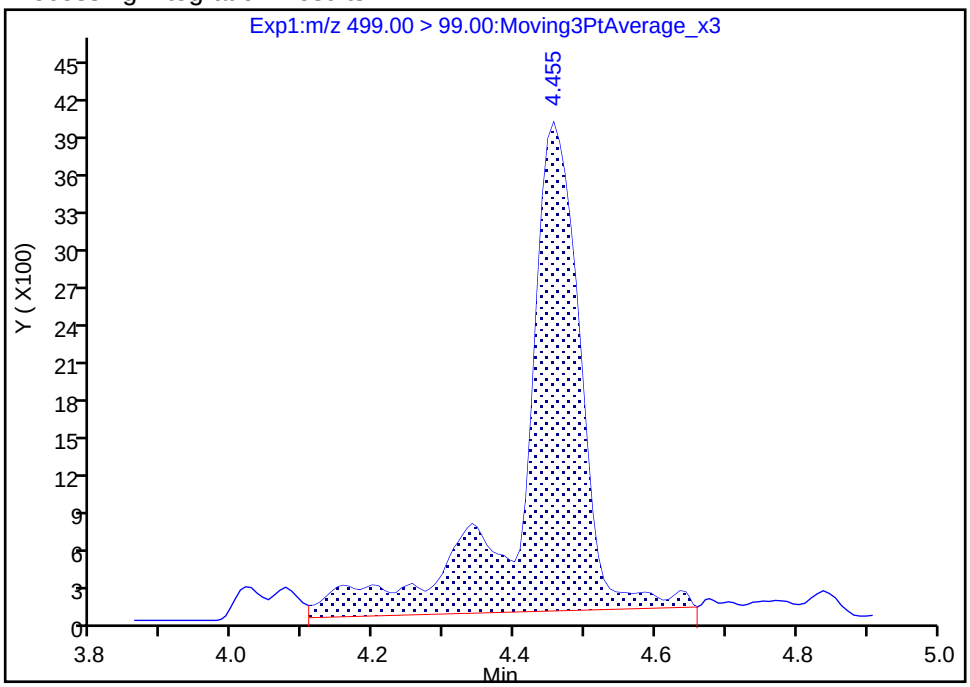
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d
Injection Date: 11-Sep-2020 11:01:18 Instrument ID: A18
Lims ID: CCVL
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

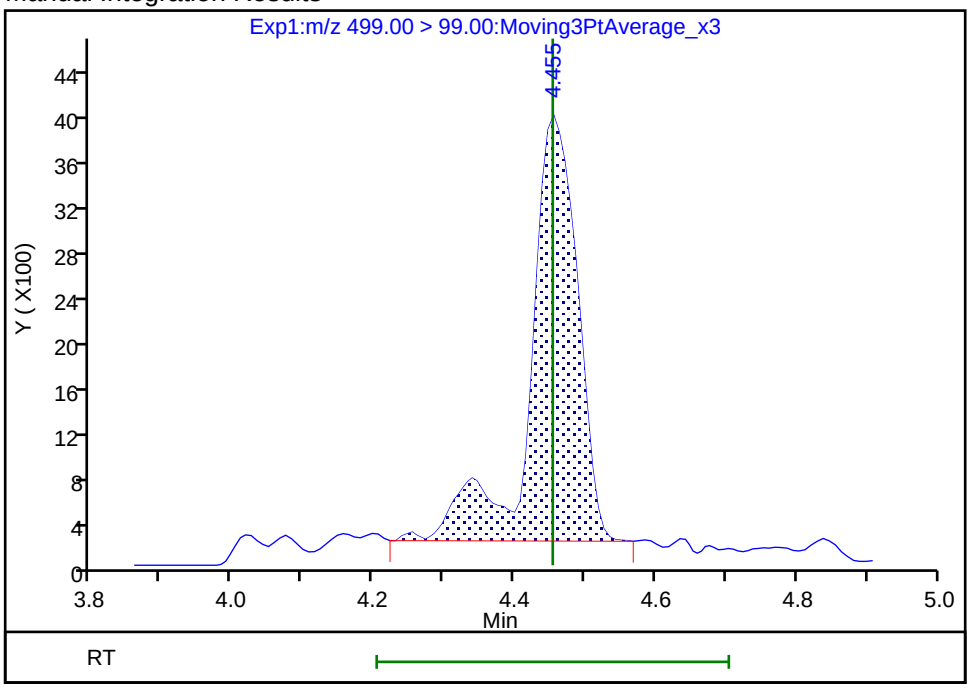
RT: 4.46
Area: 22600
Amount: 0.049685
Amount Units: ng/ml

Processing Integration Results



RT: 4.46
Area: 17660
Amount: 0.045347
Amount Units: ng/ml

Manual Integration Results



Reviewer: sanjumnair, 14-Sep-2020 10:00:13
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

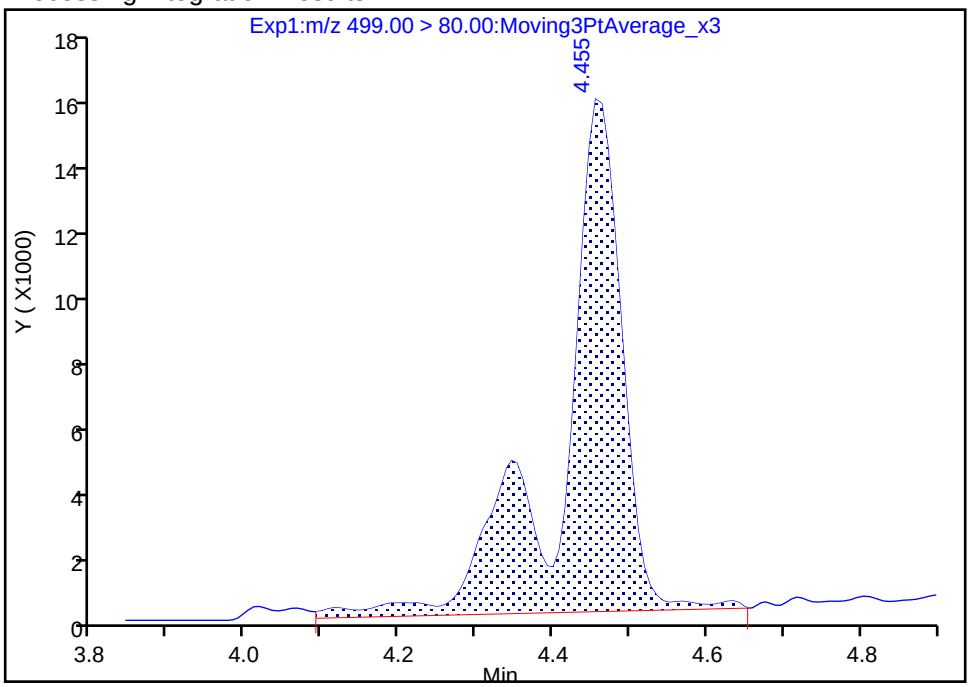
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_005.d				
Injection Date:	11-Sep-2020 11:01:18	Instrument ID:	A18		
Lims ID:	CCVL				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	51	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

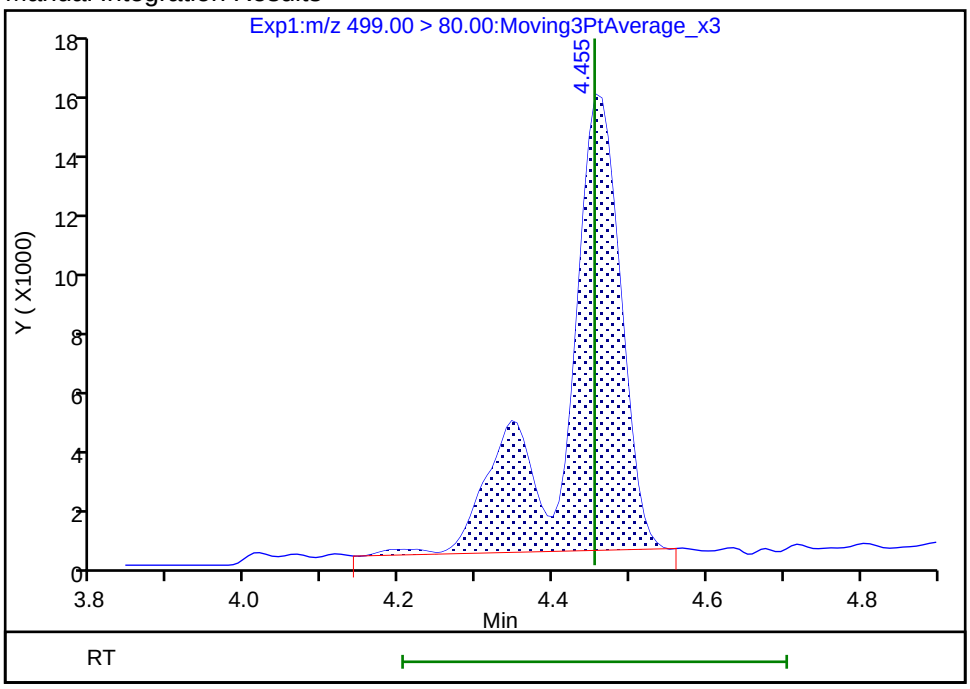
Processing Integration Results

RT: 4.46
Area: 86567
Amount: 0.049685
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 79009
Amount: 0.045347
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:00:21
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411371/3 Calibration Date: 09/11/2020 11:10

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.9190		1.06	1.00	5.9	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.058		1.06	1.00	6.1	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.053		0.922	0.884	4.3	50.0
4:2 FTS	AveID	2.273	2.513		1.03	0.934	10.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	0.9889		1.03	1.00	2.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.8456		1.00	0.938	6.7	50.0
HFPO-DA (GenX)	AveID	0.9742	1.040		1.07	1.00	6.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	1.019		1.01	1.00	0.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.114		0.858	0.910	-5.7	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	10.59		1.04	0.942	10.5	50.0
6:2 FTS	AveID	2.299	2.398		0.989	0.948	4.3	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.204		1.03	0.952	7.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.057		1.04	1.00	3.6	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.111		0.997	0.928	7.4	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	1.152		1.20	1.00	20.2	40.0
F-53B Major	AveID	3.236	3.412		0.983	0.932	5.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9648		1.04	1.00	3.7	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	1.030		1.06	0.960	9.9	50.0
8:2 FTS	AveID	1.775	1.858		1.00	0.958	4.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.9027		0.936	1.00	-6.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.7573		1.02	1.00	2.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.8808		1.02	0.964	5.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.7714		1.07	1.00	6.4	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.7020		1.04	1.00	3.9	40.0
NMeFOSE	AveID	1.080	1.253		1.16	1.00	16.0	40.0
NMeFOSA	AveID	0.9606	1.041		1.08	1.00	8.4	50.0
F-53B Minor	AveID	4.102	4.197		0.964	0.942	2.3	50.0
NEtFOSE	AveID	1.073	1.161		1.08	1.00	8.2	40.0
NEtFOSA	AveID	1.058	1.163		1.10	1.00	9.8	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.9599		0.944	1.01	-6.1	40.0
10:2 FTS	AveID	2.014	2.300		1.10	0.964	14.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3294		0.958	0.968	-1.0	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411371/3 Calibration Date: 09/11/2020 11:10

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	0.8457		0.899	1.00	-10.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.1017		1.21	1.00	20.6	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.048		1.17	1.00	17.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.9311		1.41	1.00	41.0	50.0
13C4 PFBA	Ave	1.585	1.300		2.05	2.50	-18.0	50.0
13C5 PFPeA	Ave	1.233	1.002		2.03	2.50	-18.8	50.0
13C3 PFBS	Ave	0.9684	0.8641		2.08	2.33	-10.8	50.0
M2-4:2 FTS	Ave	0.2333	0.1824		1.83	2.34	-21.8	50.0
13C2 PFHxA	Ave	1.231	1.124		2.28	2.50	-8.7	50.0
13C3 HFPO-DA	Ave	0.2518	0.2166		2.15	2.50	-14.0	50.0
13C4 PFHpA	Ave	1.051	0.9874		2.35	2.50	-6.0	50.0
18O2 PFHxS	Ave	0.5117	0.4704		2.17	2.37	-8.1	50.0
M2-6:2 FTS	Ave	0.1958	0.1590		1.93	2.38	-18.8	50.0
13C4 PFOA	Ave	1.001	0.9879		2.47	2.50	-1.3	50.0
13C4 PFOS	Ave	0.3465	0.3032		2.09	2.39	-12.5	50.0
13C5 PFNA	Ave	0.8063	0.7801		2.42	2.50	-3.2	50.0
13C8 FOSA	Ave	0.5590	0.4944		2.21	2.50	-11.6	50.0
13C2 PFDA	Ave	0.7829	0.7476		2.39	2.50	-4.5	50.0
M2-8:2 FTS	Ave	0.2823	0.2273		1.93	2.40	-19.5	50.0
d3-NMeFOSAA	Ave	0.5255	0.4407		2.10	2.50	-16.1	50.0
13C2 PFUnA	Ave	0.7758	0.8218		2.65	2.50	5.9	50.0
d5-NEtFOSAA	Ave	0.5556	0.5039		2.27	2.50	-9.3	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1402		12.7	12.5	1.3	50.0
d-N-MeFOSA-M	Ave	0.1965	0.1734		2.21	2.50	-11.8	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1884		13.9	12.5	10.9	50.0
d-N-EtFOSA-M	Ave	0.2011	0.1698		2.11	2.50	-15.6	50.0
13C2 PFDoA	Ave	0.7650	0.9645		3.15	2.50	26.1	50.0
13C2 PFTeDA	Ave	0.6311	0.6133		2.43	2.50	-2.8	50.0
13C2 PFHxDA	Ave	0.4618	0.4119		2.23	2.50	-10.8	50.0
13C8 PFOA	Ave	0.6756	0.7428		2.69	2.45	9.9	50.0
13C8 PFOS	Ave	0.1082	0.0973		2.15	2.39	-10.1	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Sep-2020 11:10:24 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4 (30)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 10:01:34 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: fariasa Date: 11-Sep-2020 11:41:25
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.557	2.557	0.0	0.624	16516876	2.05		82.0	9565	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.565	2.565	0.0	1.003	6071865	1.06		106	293	
D 4 13C5 PFPeA										
267.90 > 223.00	2.919	2.919	0.0	0.712	12727777	2.03		81.2	4325	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.919	2.919	0.0	1.000	5385992	1.06		106	236	
D 9 13C3 PFBS										
301.90 > 80.00	2.950	2.950	0.0	0.720	10208351	2.07		89.2	3932	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.950	2.950	0.0	1.000	4086542	0.9217	Target=2.30	104	891	
298.90 > 99.00	2.950	2.950	0.0	1.000	1763295		2.32(1.15-3.45)		649	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.248	3.248	0.0	0.792	2164370	1.83		78.2	1015	
8 4:2 FTS										
327.00 > 307.00	3.248	3.248	0.0	1.000	2175757	1.03		111	7520	
D 11 13C2 PFHxA										
315.00 > 270.00	3.298	3.298	0.0	0.805	14276065	2.28		91.3	5349	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.298	3.298	0.0	1.000	5647001	1.03	Target=13.78	103	388	
313.00 > 119.00	3.298	3.298	0.0	1.000	436975		12.92(6.89-20.66)		248	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.309	3.309	0.0	1.122	3482739	1.00	Target=3.02	107	784	
349.00 > 99.00	3.309	3.309	0.0	1.122	1170855		2.97(1.51-4.52)		754	
13 HPFO-DA										
285.00 > 169.00	3.426	3.426	0.0	1.000	1143974	1.07		107	2778	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.426	3.426	0.0	0.836	2751176	2.15		86.0	6346	
D 18 13C4 PFHpA										
367.00 > 322.00	3.701	3.701	0.0	0.903	12542839	2.35		94.0	8419	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.701	3.701	0.0	1.000	5111527	1.00	Target=3.84	100	550	
363.00 > 169.00	3.701	3.701	0.0	1.000	1412196		3.62(1.92-5.76)		1014	
D 17 18O2 PFHxS										
403.00 > 84.00	3.711	3.711	0.0	0.905	5653425	2.17		91.9	9171	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.711	3.711	0.0	1.000	2423229	0.8580	Target=3.50	94.3	683	M
399.00 > 99.00	3.711	3.711	0.0	1.000	697402		3.47(1.75-5.25)		432	M
19 DONA										
377.00 > 251.00	3.750	3.750	0.0	0.840	15373482	1.04	Target=2.42	111	4817	
377.00 > 85.00	3.750	3.750	0.0	0.840	6361255		2.42(1.21-3.63)		4812	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.074	4.074	0.0	0.994	1918911	1.93		81.2	1414	
21 6:2 FTS										
427.00 > 407.00	4.074	4.074	0.0	1.000	1836780	0.9889		104	2957	
* 23 13C2 PFOA										
415.00 > 370.00	4.099	4.099	0.0		12703244	2.50			7387	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.099	4.099	0.0	1.000	5309552	1.04	Target=2.94	104	621	M
413.00 > 169.00	4.099	4.099	0.0	1.000	1775774		2.99(1.47-4.41)		1122	M
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.090	4.090	0.0	0.917	1765926	1.03	Target=4.40	108	811	
449.00 > 99.00	4.090	4.090	0.0	0.917	416013		4.24(2.20-6.60)		535	
$ 26 13C8 PFOA										
421.00 > 376.00	4.090	4.090	0.0	0.998	9237591	2.69		110	7328	
D 25 13C4 PFOA										
417.00 > 372.00	4.099	4.099	0.0	1.000	12549874	2.47		98.7	6049	
$ 28 13C8 PFOS										
507.00 > 99.00	4.462	4.462	0.0	1.089	1181957	2.15		89.9	2969	
D 27 13C4 PFOS										
503.00 > 80.00	4.462	4.462	0.0	1.089	3682642	2.09		87.5	1523	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.462	4.462	0.0	1.000	1589264	1.00	Target=4.53	107	492	M
499.00 > 99.00	4.462	4.462	0.0	1.000	328773		4.83(2.26-6.79)		434	M
D 30 13C5 PFNA										
468.00 > 423.00	4.486	4.486	0.0	1.094	9910059	2.42		96.8	4965	
31 Perfluorononanoic acid										
463.00 > 419.00	4.486	4.486	0.0	1.000	4577325	1.20	Target=8.97	120	811	
463.00 > 169.00	4.470	4.486	-0.016	0.996	465145		9.84(4.48-13.45)		749	
32 9ClFOS										
531.00 > 351.00	4.664	4.664	0.0	1.045	4899207	0.9826		105	6807	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.168	6280011	2.21		88.4	4382	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.794	4.794	0.0	1.002	2423586	1.04		104	3612	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.811	4.811	0.0	1.078	1522913	1.05	Target=2.85	110	1073	
549.00 > 99.00	4.811	4.811	0.0	1.078	543341		2.80(1.43-4.28)		854	
D 39 13C2 PFDA										
515.00 > 470.00	4.837	4.837	0.0	1.180	9496473	2.39		95.5	10840	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.837	4.837	0.0	1.000	3428931	0.9365	Target=10.16	93.6	940	
513.00 > 169.00	4.837	4.837	0.0	1.000	374437		9.16(5.08-15.24)		215	
36 8:2 FTS										
527.00 > 507.00	4.837	4.837	0.0	1.000	2055591	1.00		105	4771	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.837	4.837	0.0	1.180	2766510	1.93		80.5	1893	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.000	5.000	0.0	1.220	5598943	2.10		83.9	3400	
41 NMeFOSAA										
570.00 > 419.00	5.011	5.011	0.0	1.002	1696036	1.02		102	8289	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.130	5.130	0.0	1.150	1308327	1.02	Target=2.77	105	1169	
599.00 > 99.00	5.130	5.130	0.0	1.150	462545		2.83(1.38-4.15)		1210	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.157	5.157	0.0	1.000	3224489	1.06	Target=8.43	106	1400	
563.00 > 169.00	5.157	5.157	0.0	1.000	372794		8.65(4.22-12.65)		704	
D 43 13C2 PFUnA										
565.00 > 520.00	5.157	5.157	0.0	1.258	10439296	2.65		106	7147	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.166	5.166	0.0	1.260	6401157	2.27		90.7	3393	
46 NEtFOSA										
584.00 > 419.00	5.175	5.175	0.0	1.002	1797442	1.04		104	9273	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.239	5.239	0.0	1.278	8907504	12.7		101	5326	
48 N-MeFOSE-M										
616.00 > 59.00	5.249	5.249	0.0	1.002	892625	1.16		116	913	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.269	5.269	0.0	1.286	2202131	2.21		88.2	42.8	
50 NMeFOSA										
512.00 > 169.00	5.269	5.269	0.0	1.000	917251	1.08		108	410	
51 11ClFOS										
631.00 > 451.00	5.300	5.300	0.0	1.188	6092219	0.9639		102	6578	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.415	5.415	0.0	1.321	11967253	13.9		111	4680	
53 N-EtFOSE-M										
630.00 > 59.00	5.437	5.437	0.0	1.004	1111872	1.08		108	1722	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.448	5.448	0.0	1.329	2157061	2.11		84.4	309	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.459	5.459	0.0	1.000	4732492	0.9444	Target=9.12	93.9	1543	
613.00 > 169.00	5.459	5.459	0.0	1.000	552336		8.57(4.56-13.69)		1385	
55 N-EtFOSA-M										
526.00 > 169.00	5.448	5.448	0.0	1.000	1003106	1.10		110	373	
D 56 13C2 PFDoA										
615.00 > 570.00	5.459	5.459	0.0	1.332	12251851	3.15		126	13338	
58 10:2 FTS										
627.00 > 607.00	5.469	5.469	0.0	1.131	2561560	1.10		114	3324	
59 PFDoS										
699.00 > 80.00	5.691	5.691	0.0	1.275	491372	0.9580	Target=0.72	99.0	506	
699.00 > 99.00	5.691	5.691	0.0	1.275	696635		0.71(0.36-1.07)		1934	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.723	5.723	0.0	1.048	4144541	0.8988	Target=6.78	89.9	2155	
663.00 > 169.00	5.723	5.723	0.0	1.048	576204		7.19(3.39-10.17)		1515	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.971	5.971	0.0	1.000	317418	1.21	Target=0.85	121	1379	
713.00 > 219.00	5.960	5.971	-0.011	0.998	359319		0.88(0.43-1.28)		1165	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.971	5.971	0.0	1.457	7791306	2.43		97.2	7095	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.420	6.420	0.0	1.567	5232109	2.23		89.2	5594	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.420	6.420	0.0	1.000	2193932	1.17	Target=10.21	117	1475	
813.00 > 169.00	6.412	6.420	-0.008	0.999	226689		9.68(5.11-15.32)		1392	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.881	6.881	0.0	1.072	1948628	1.41	Target=12.45	141	1600	
913.00 > 169.00	6.881	6.881	0.0	1.072	154693		12.60(6.22-18.67)		1364	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 14-Sep-2020 10:01:35 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d

Injection Date: 11-Sep-2020 11:10:24 Instrument ID: A18

Lims ID: CCV L4

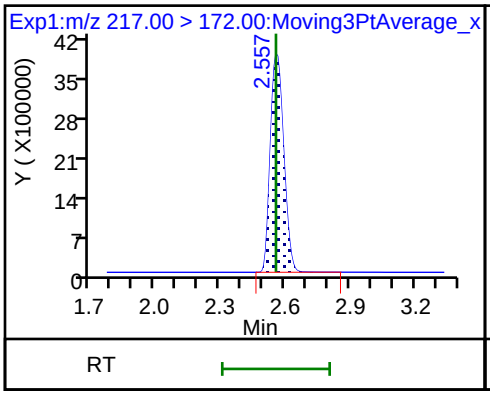
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 3

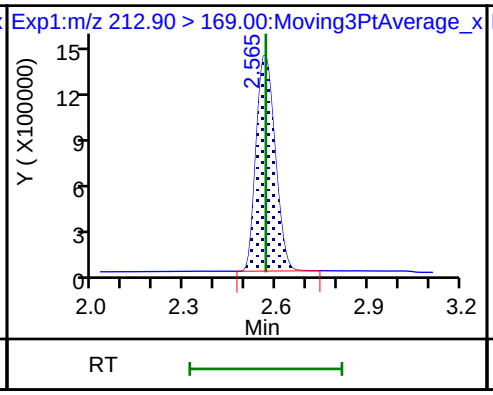
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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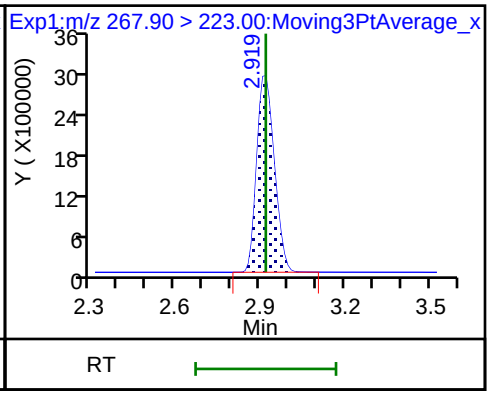
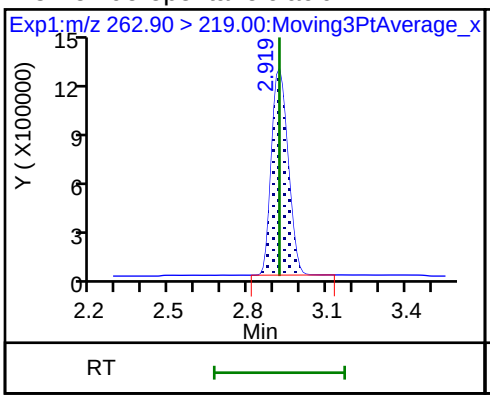
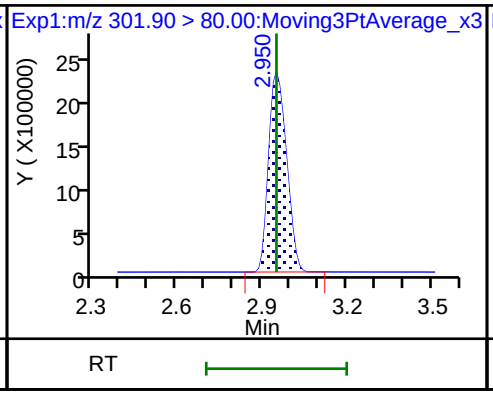


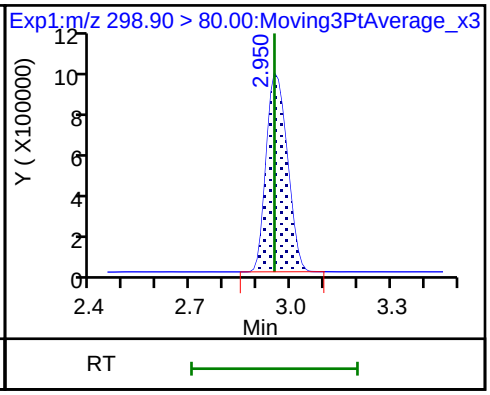
5 Perfluoropentanoic acid



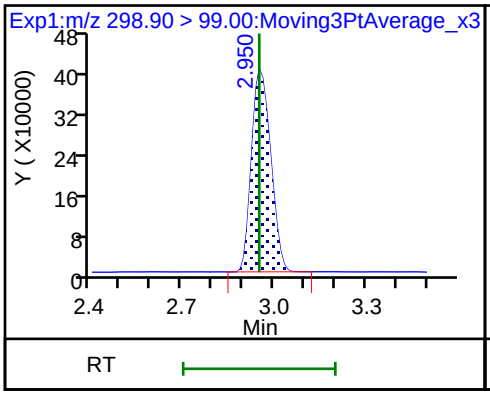
D 9 13C3 PFBS



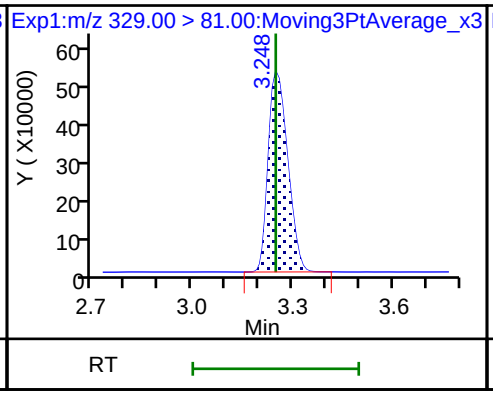
6 Perfluorobutanesulfonic acid



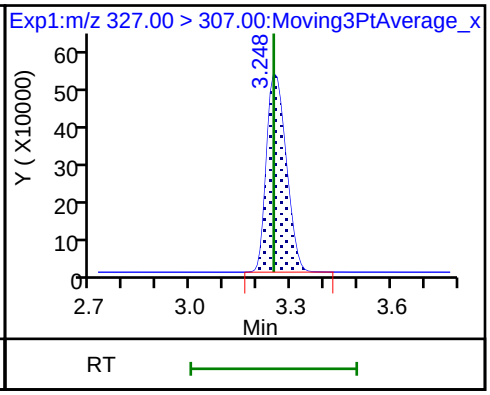
6 Perfluorobutanesulfonic acid



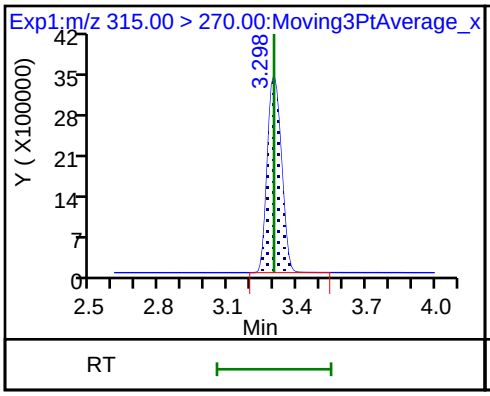
D 7 M2-4:2 FTS



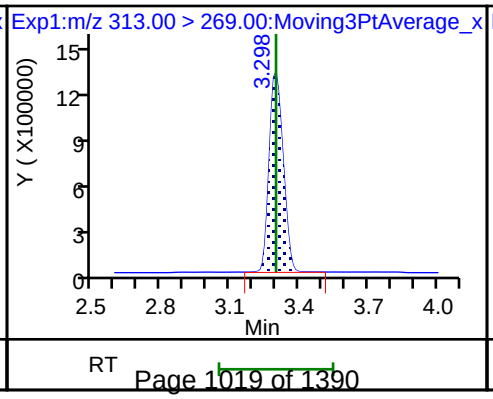
8 4:2 FTS



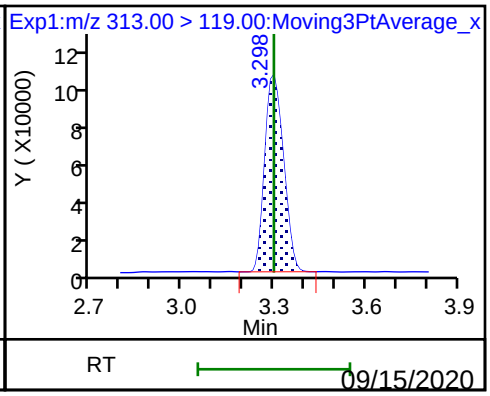
D 11 13C2 PFHxA



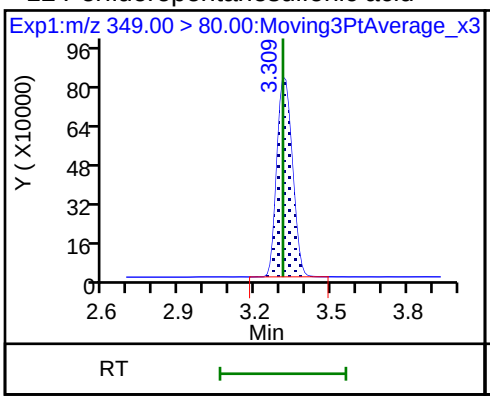
10 Perfluorohexanoic acid



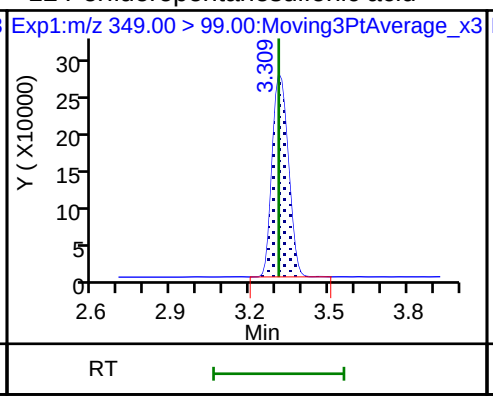
10 Perfluorohexanoic acid



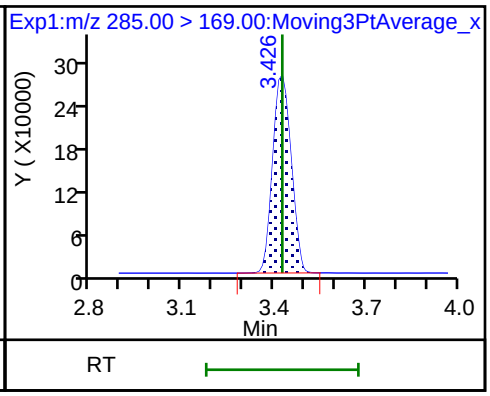
12 Perfluoropentanesulfonic acid



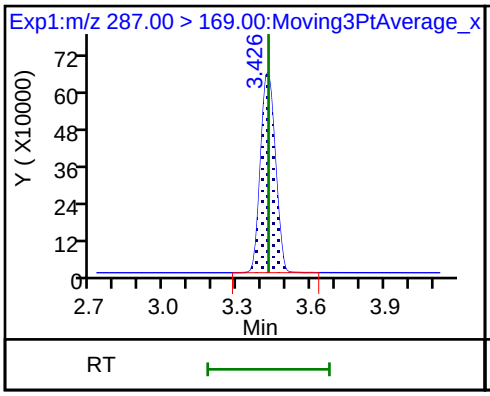
12 Perfluoropentanesulfonic acid



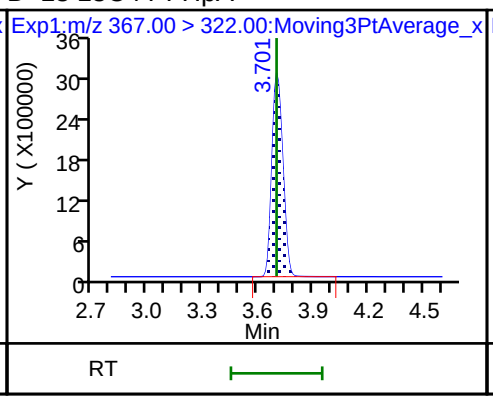
13 HPFO-DA



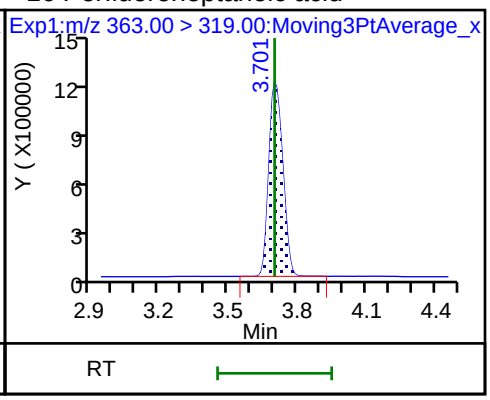
D 14 13C3 HFPO-DA



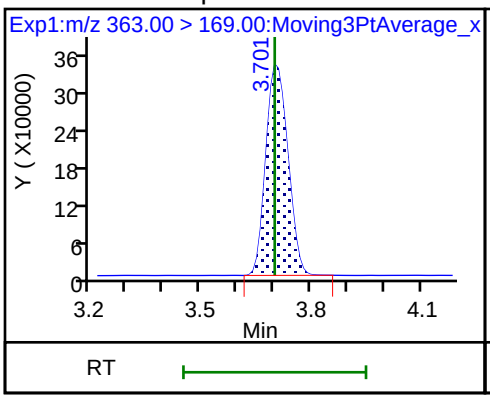
D 18 13C4 PFHpA



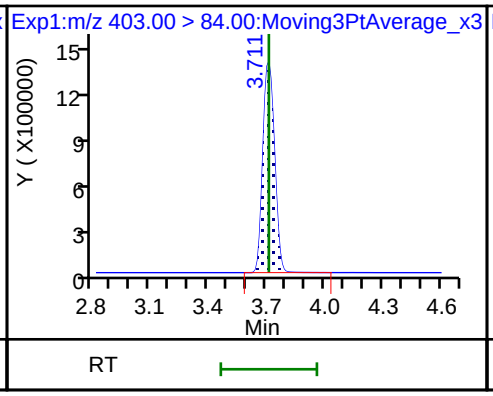
16 Perfluoroheptanoic acid



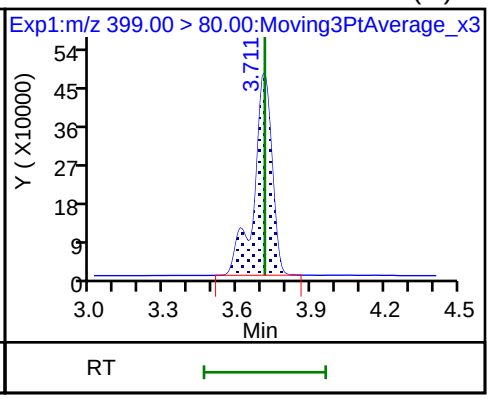
16 Perfluoroheptanoic acid



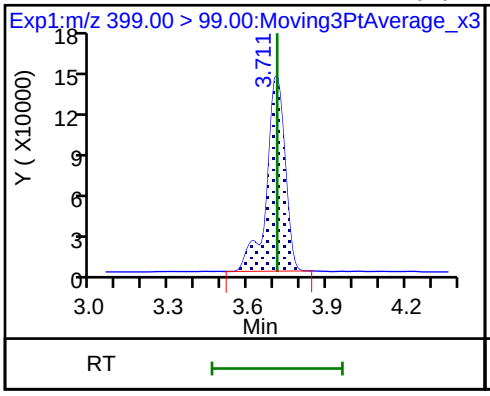
D 17 18O2 PFHxS



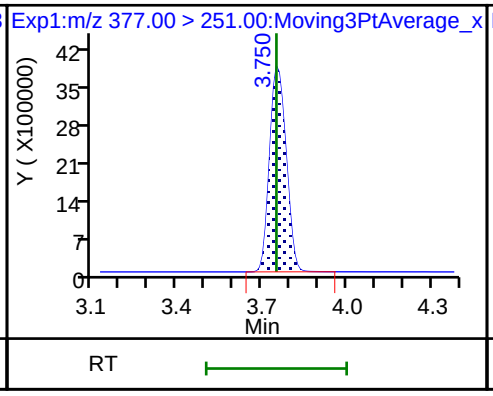
15 Perfluorohexanesulfonic acid (M)



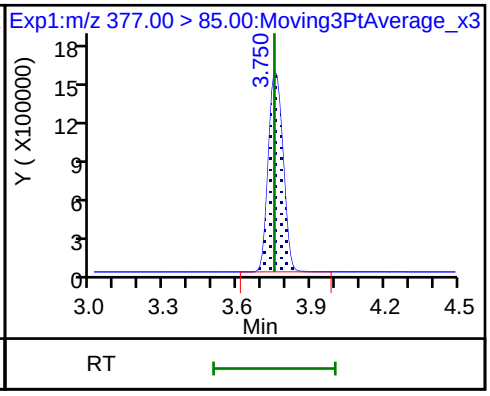
15 Perfluorohexanesulfonic acid (M)



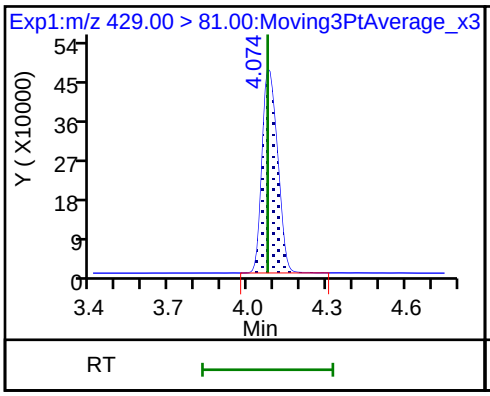
19 DONA



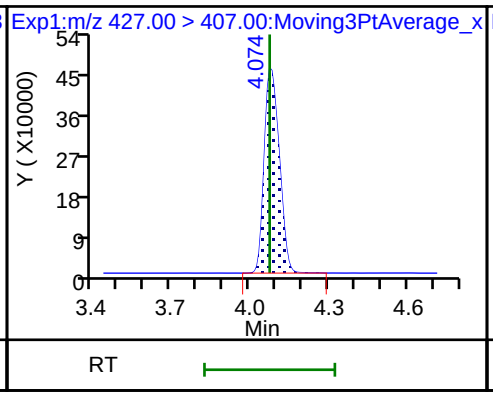
19 DONA



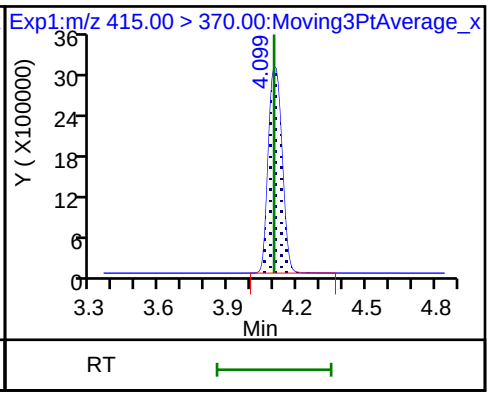
D 20 M2-6:2 FTS



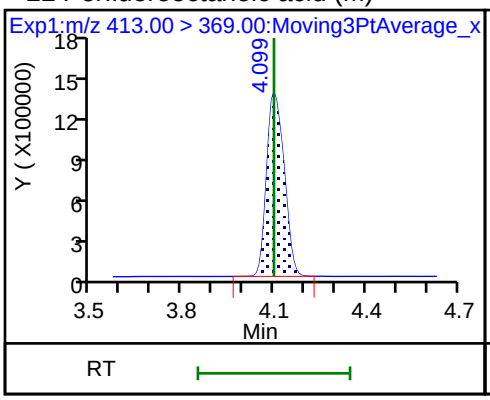
21 6:2 FTS



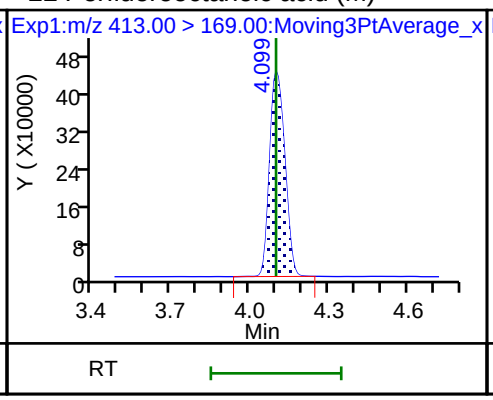
* 23 13C2 PFOA



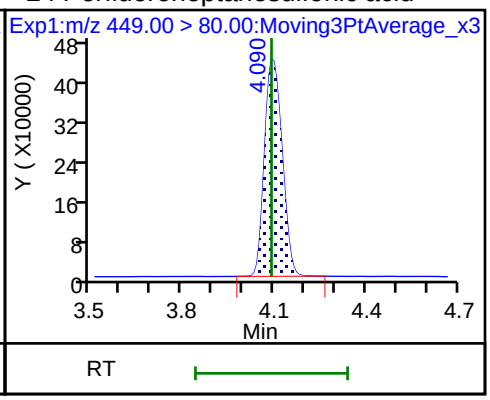
22 Perfluorooctanoic acid (M)



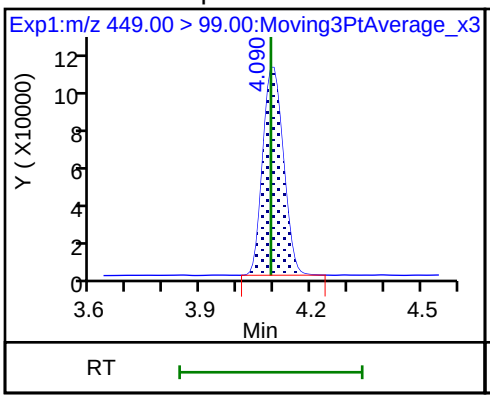
22 Perfluorooctanoic acid (M)



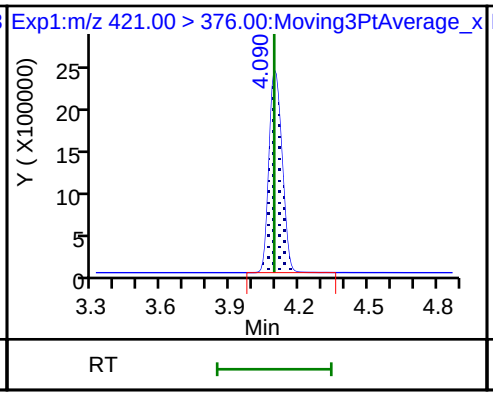
24 Perfluoroheptanesulfonic acid



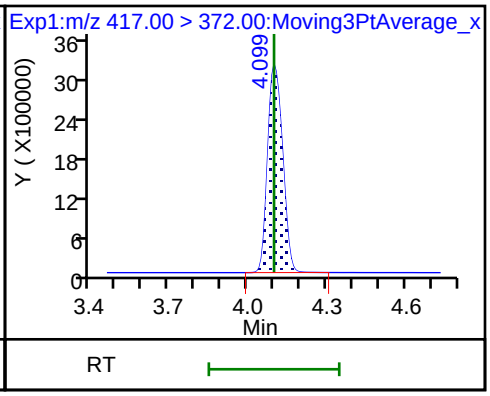
24 Perfluoroheptanesulfonic acid



$ 26 13C8 PFOA



D 25 13C4 PFOA



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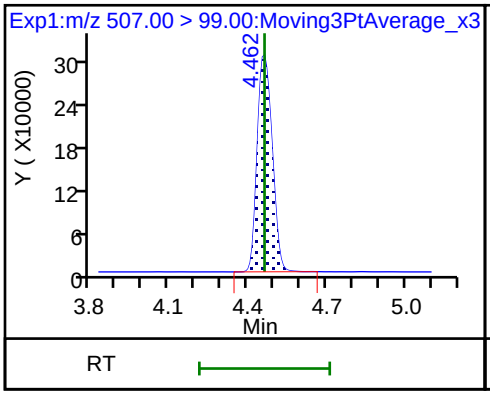

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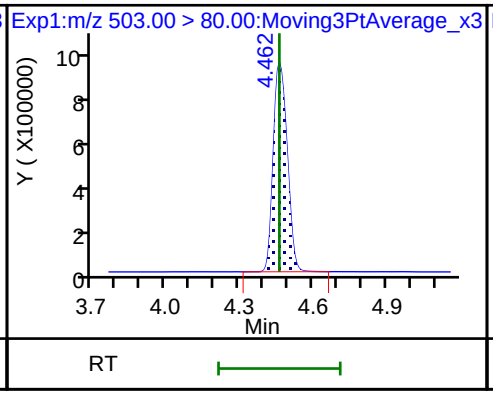
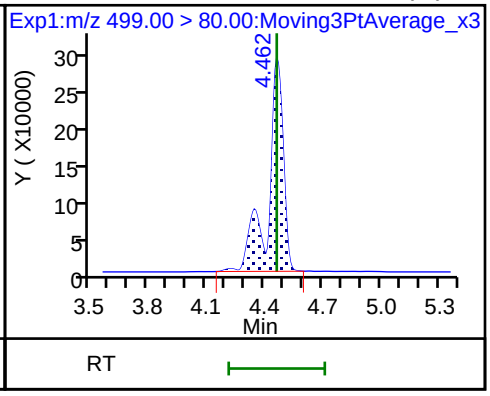
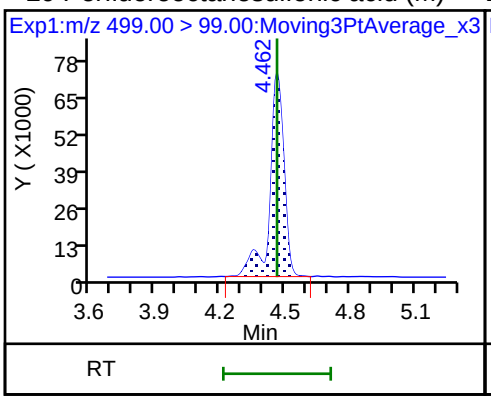


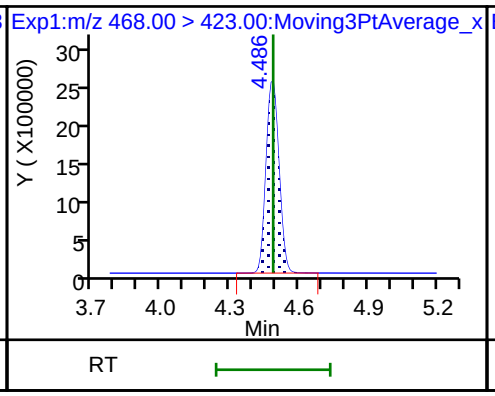
29 Perfluorooctanesulfonic acid (M)



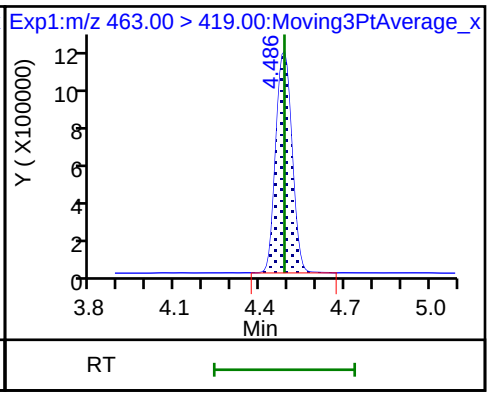
29 Perfluorooctanesulfonic acid (M)



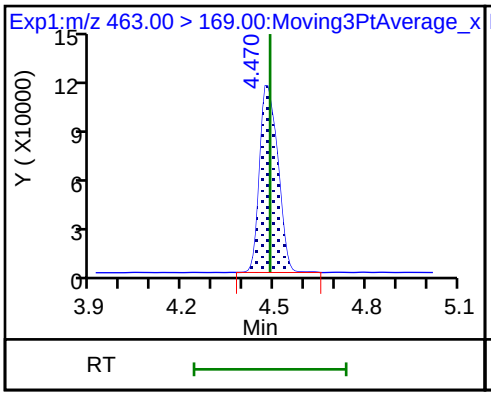
D 30 13C5 PFNA



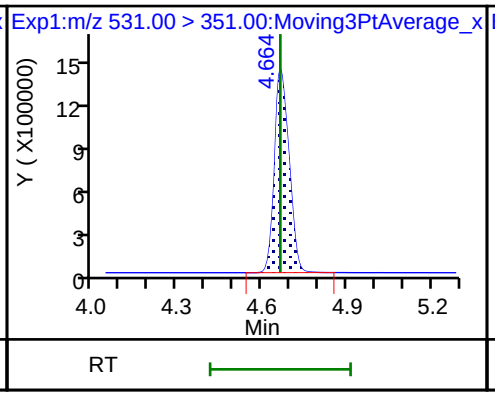
31 Perfluorononanoic acid



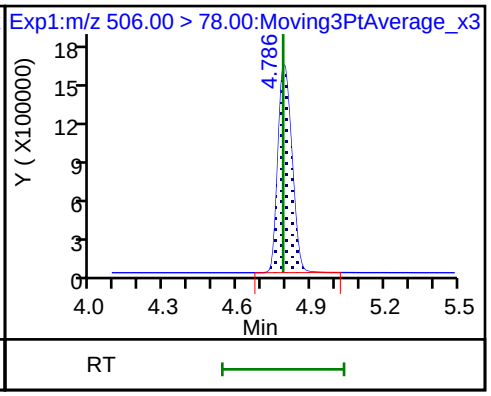
31 Perfluorononanoic acid



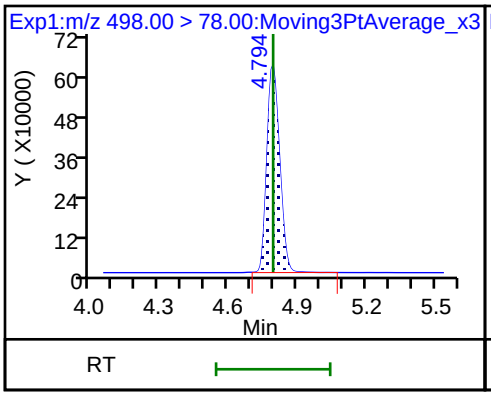
32 9ClFOS



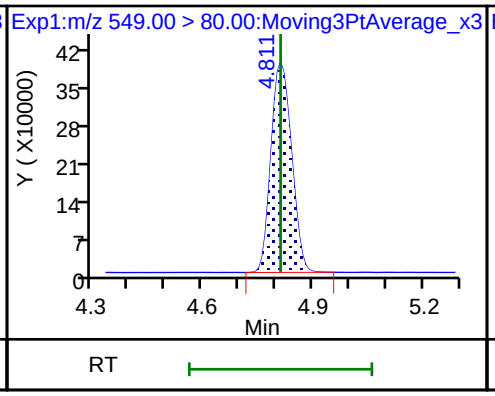
D 33 13C8 FOSA



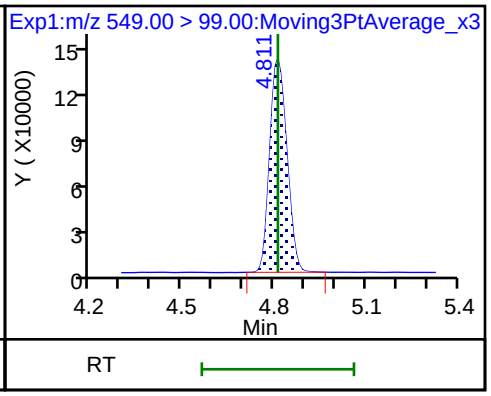
34 Perfluorooctanesulfonamide



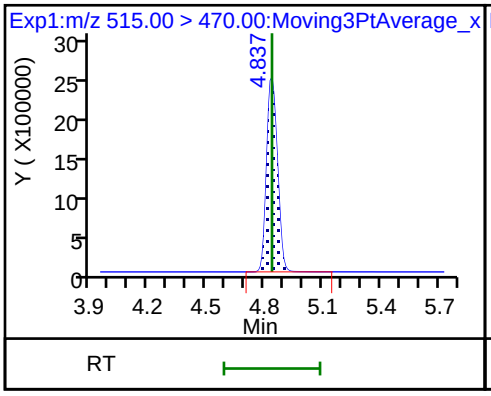
35 Perfluorononanesulfonic acid



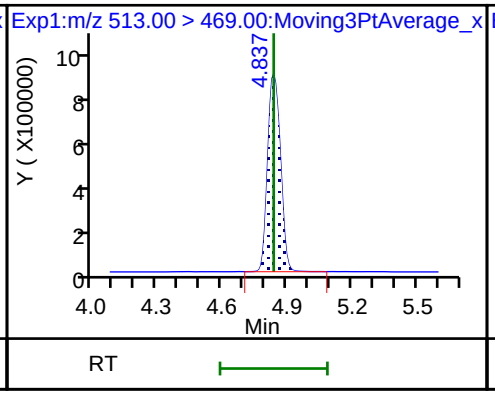
35 Perfluorononanesulfonic acid



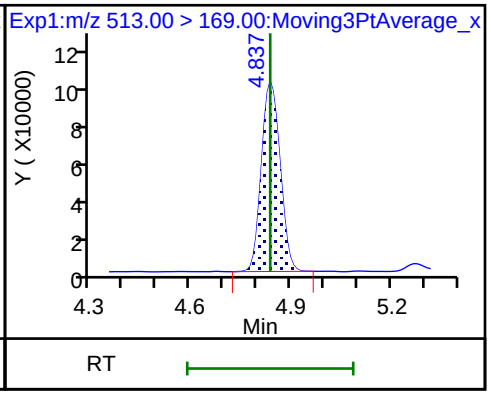
D 39 13C2 PFDA



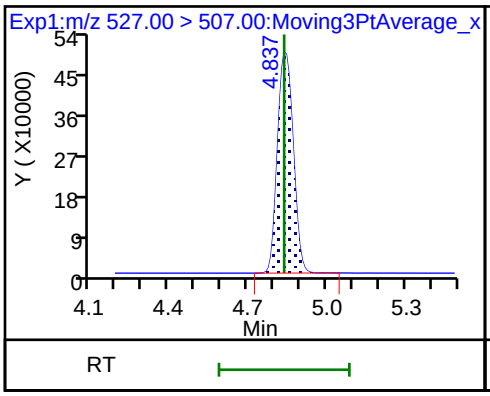
37 Perfluorodecanoic acid



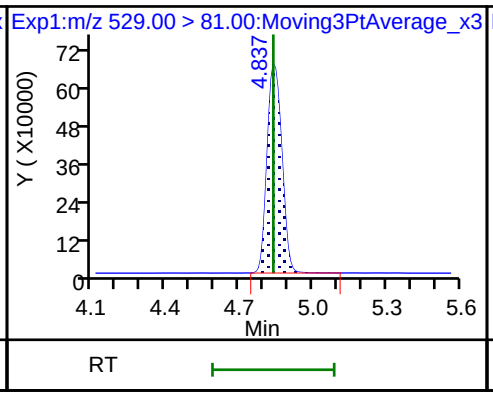
37 Perfluorodecanoic acid



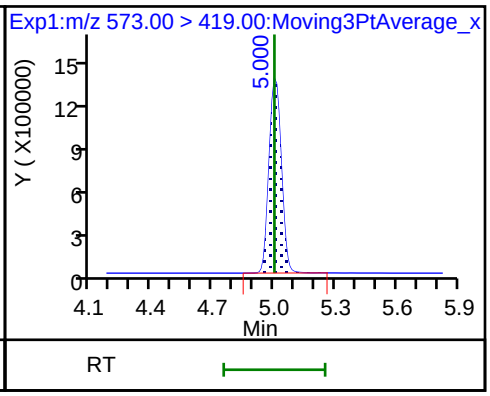
36 8:2 FTS



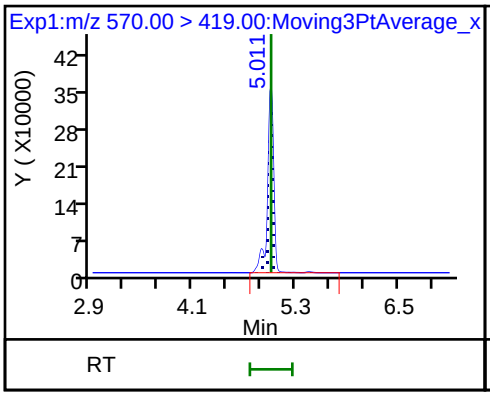
D 38 M2-8:2 FTS



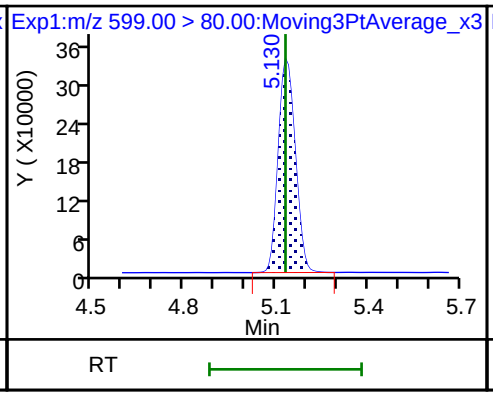
D 40 d3-NMeFOSAA



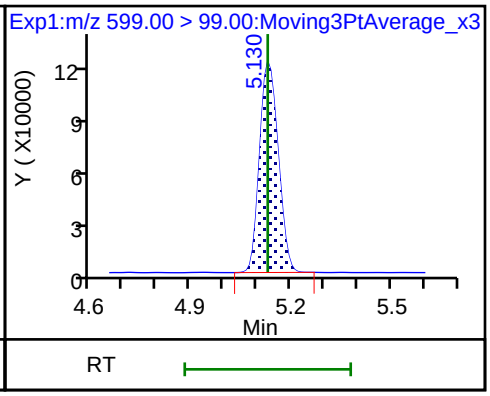
41 NMeFOSAA



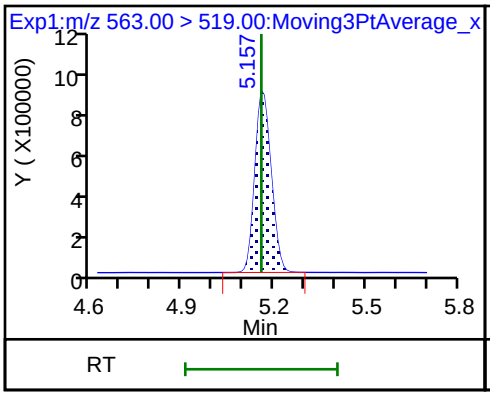
42 Perfluorodecanesulfonic acid



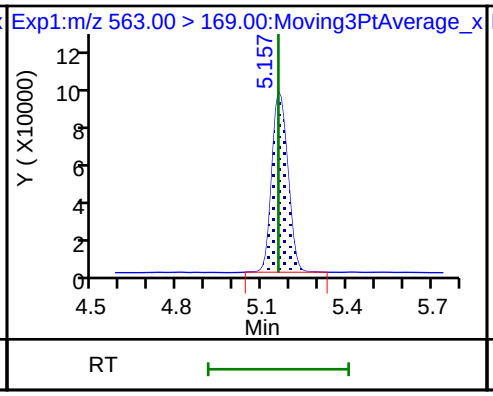
42 Perfluorodecanesulfonic acid



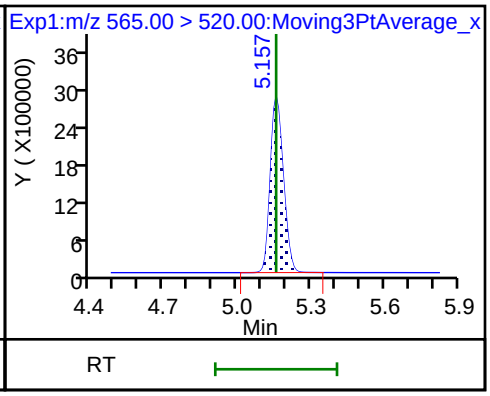
45 Perfluoroundecanoic acid



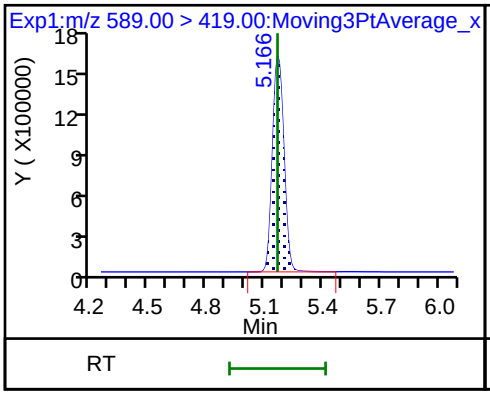
45 Perfluoroundecanoic acid



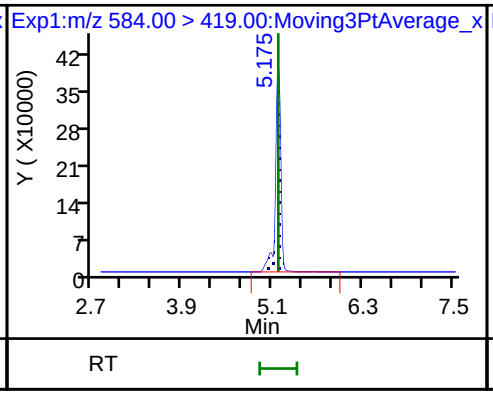
D 43 13C2 PFUnA



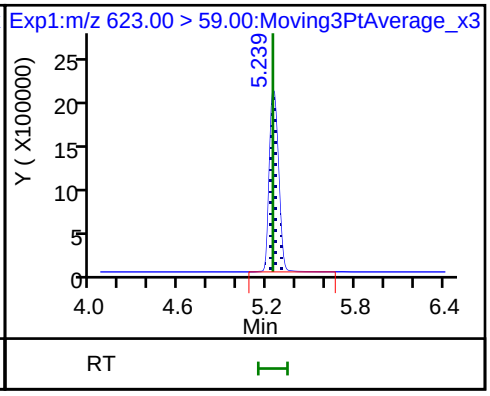
D 44 d5-NEtFOSAA



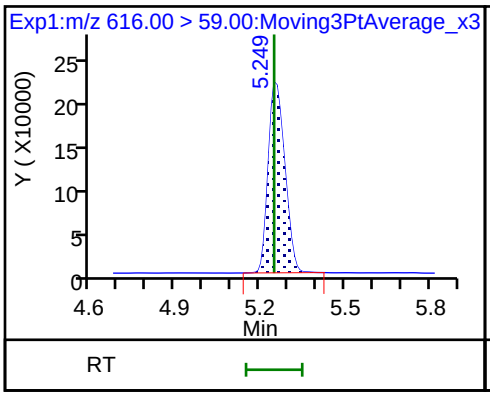
46 NEtFOSA



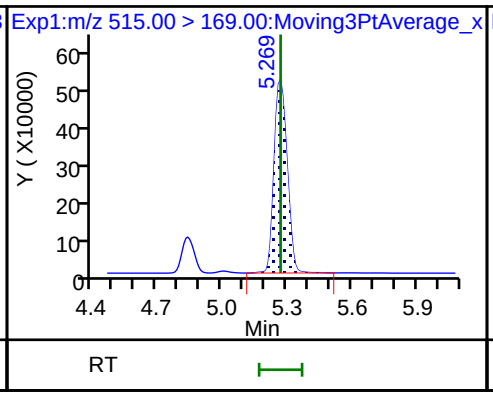
D 47 d7-N-MeFOSE-M



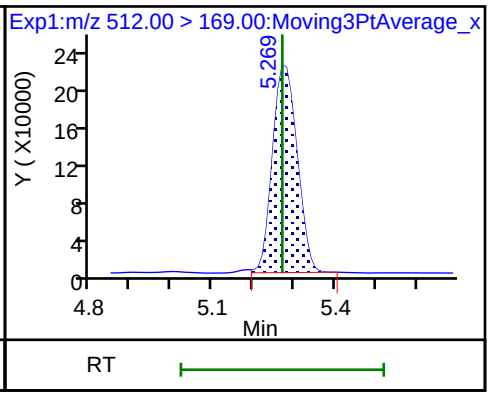
48 N-MeFOSE-M



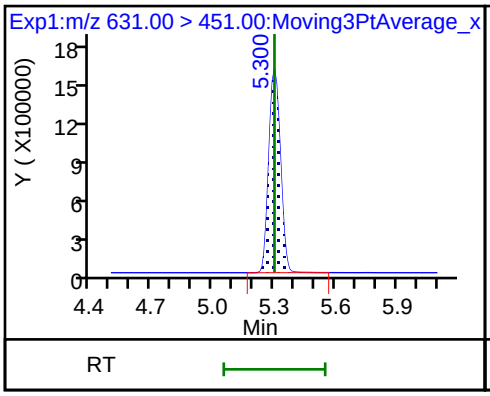
D 49 d-N-MeFOSA-M



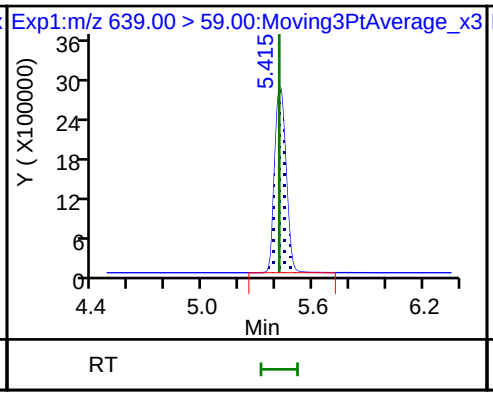
50 NMeFOSA



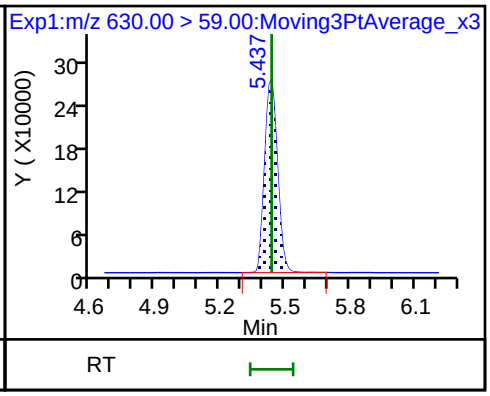
51 11ClFOS



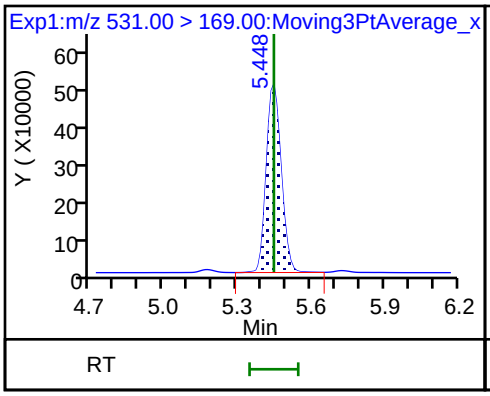
D 52 d9-N-EtFOSE-M



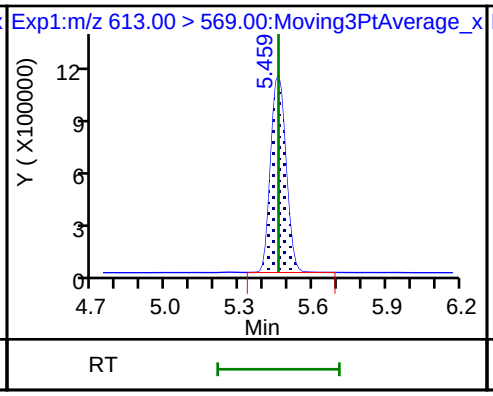
53 N-EtFOSE-M



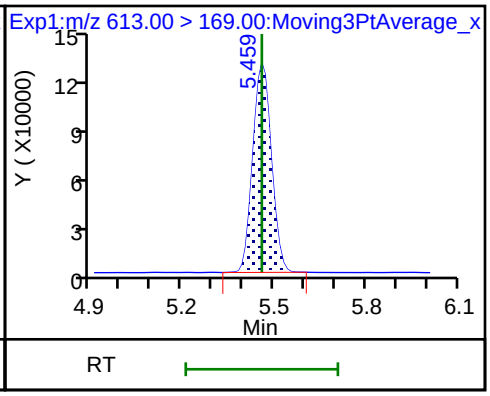
D 54 d-N-EtFOSA-M



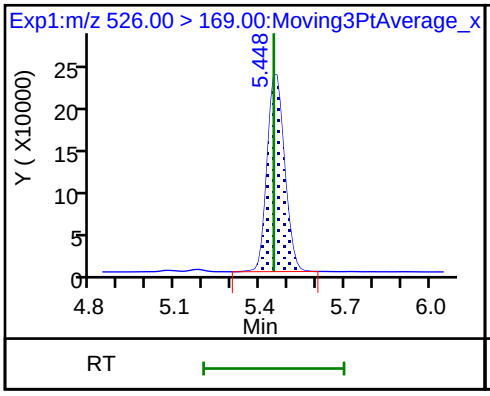
57 Perfluorododecanoic acid



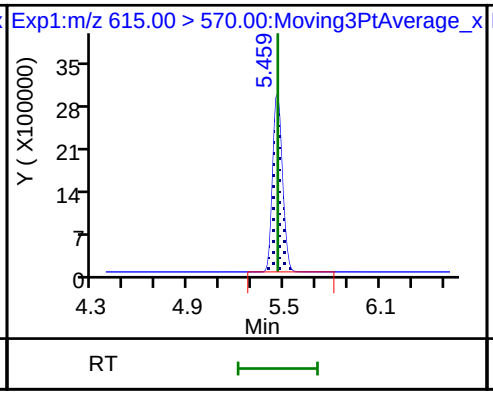
57 Perfluorododecanoic acid



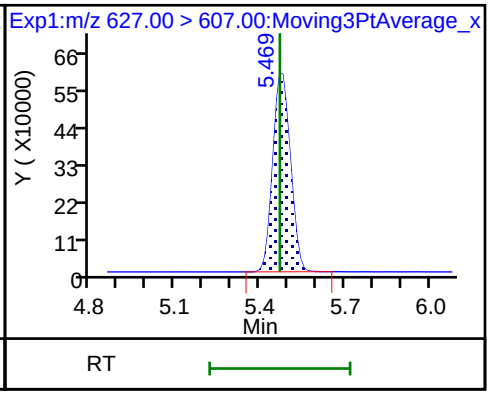
55 N-EtFOSA-M



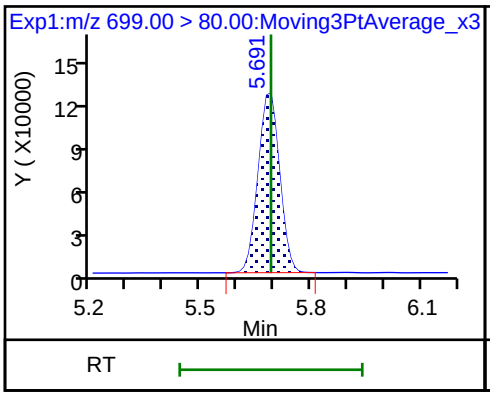
D 56 13C2 PFDoA



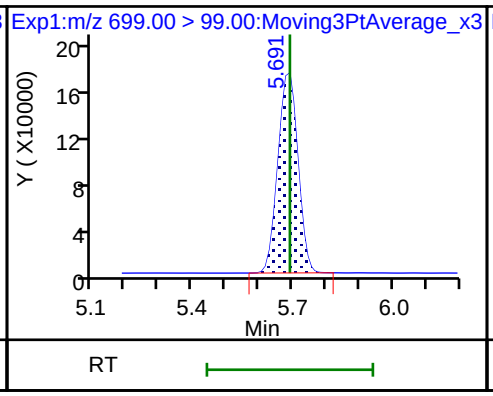
58 10:2 FTS



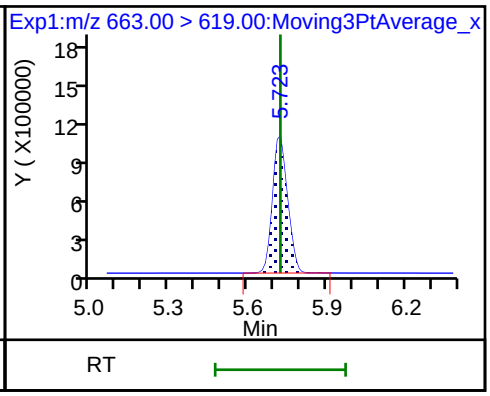
59 PFDoS



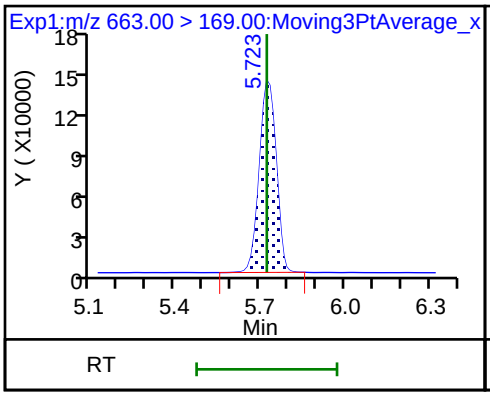
59 PFDoS



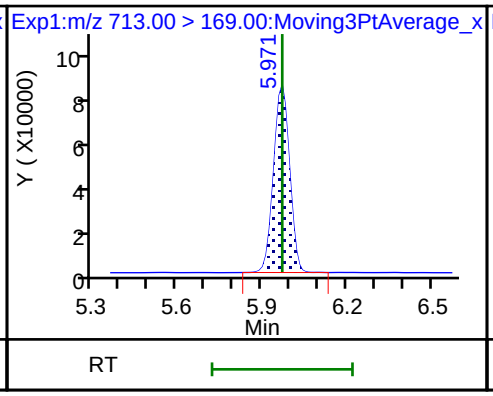
60 Perfluorotridecanoic acid



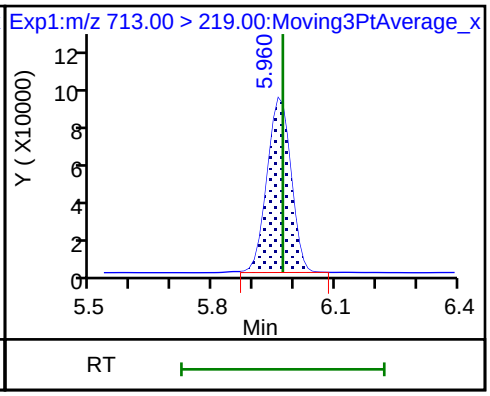
60 Perfluorotridecanoic acid



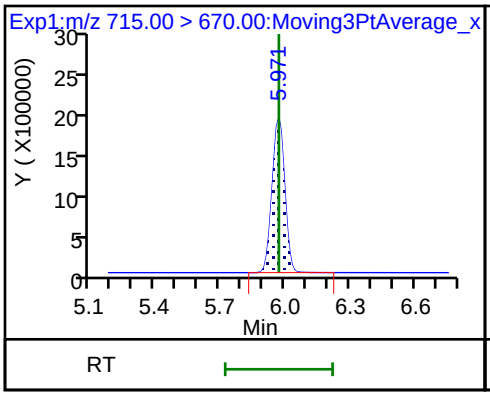
62 Perfluorotetradecanoic acid



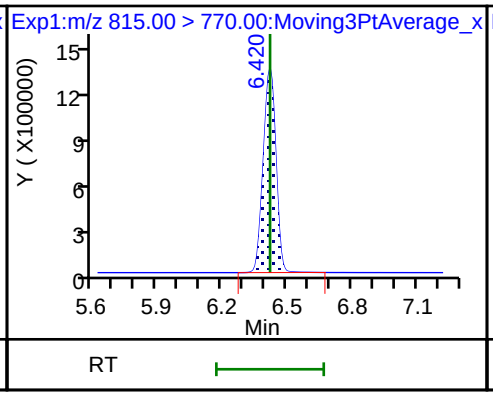
62 Perfluorotetradecanoic acid



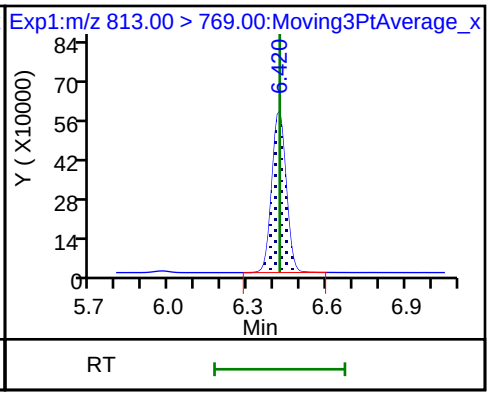
D 61 13C2 PFTeDA



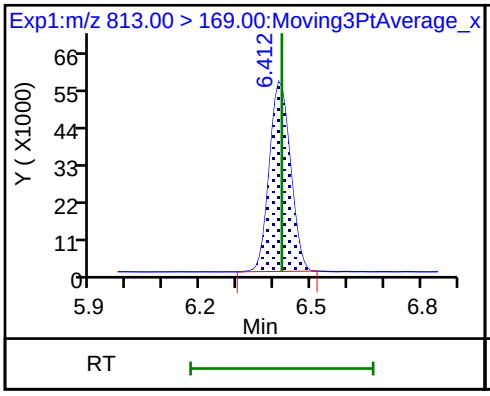
D 64 13C2 PFHxDA



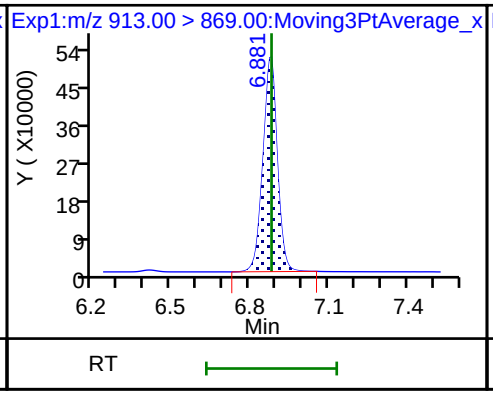
63 Perfluorohexadecanoic acid



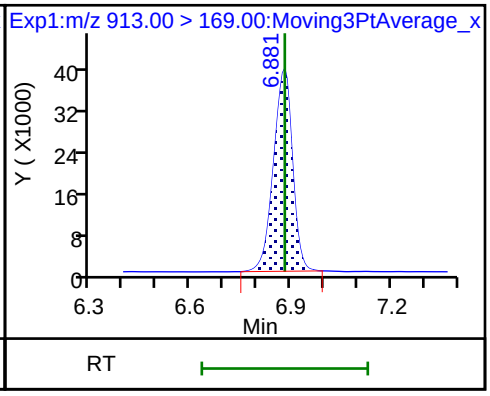
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

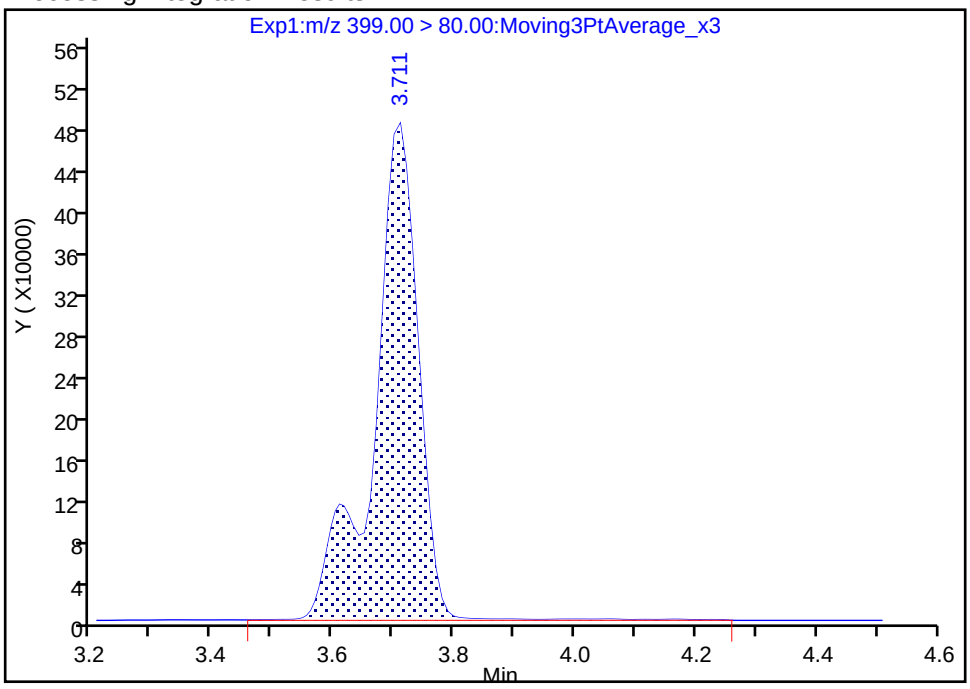
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d
Injection Date: 11-Sep-2020 11:10:24 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

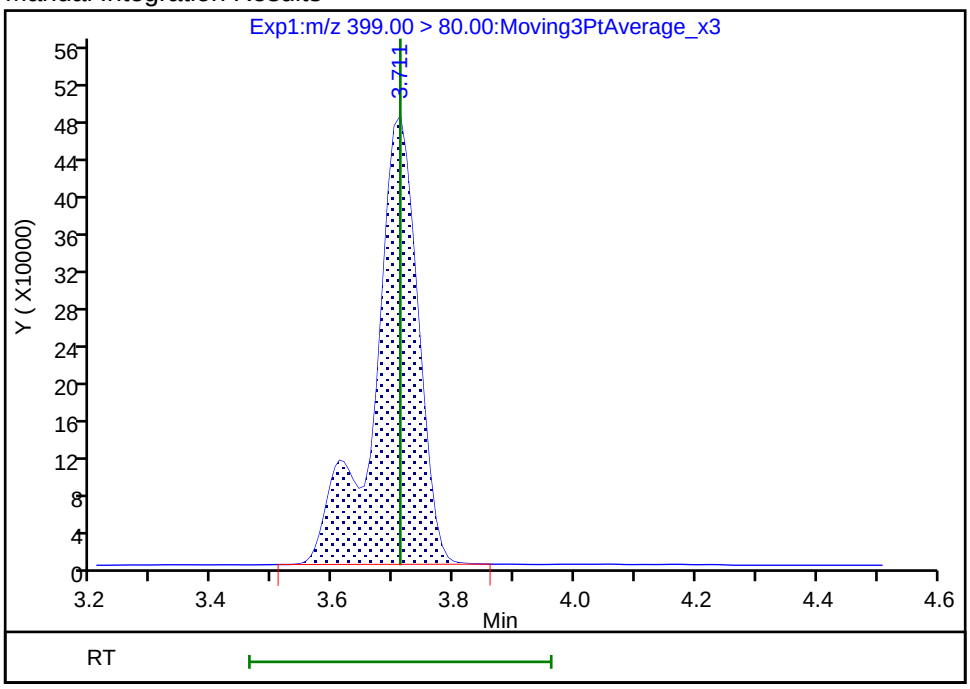
Processing Integration Results

RT: 3.71
Area: 2463744
Amount: 0.872368
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 2423229
Amount: 0.858022
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:00:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

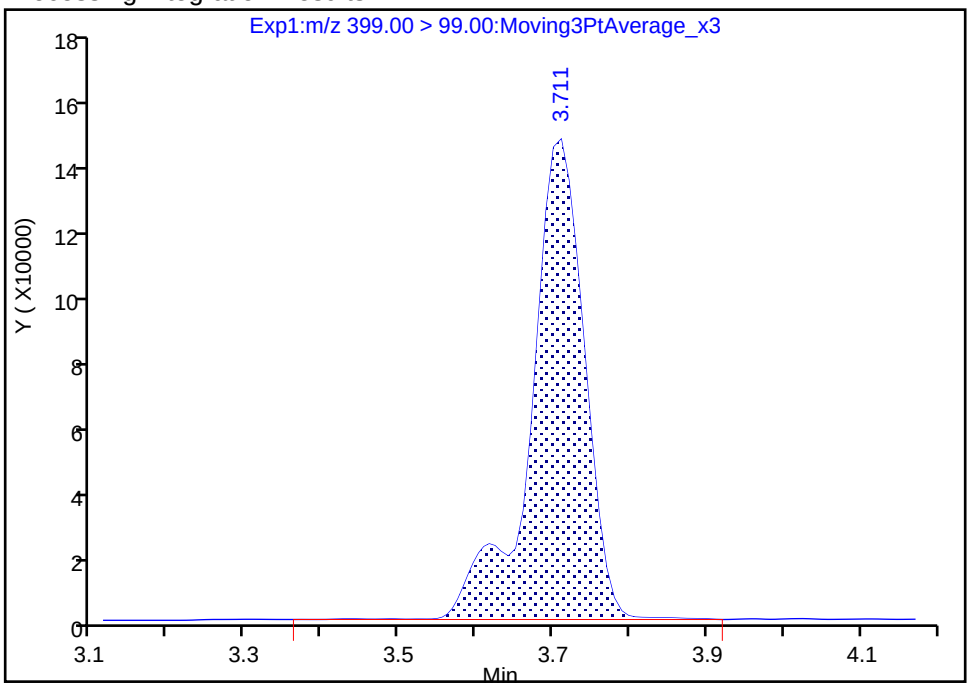
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d				
Injection Date:	11-Sep-2020 11:10:24	Instrument ID:	A18		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	52	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

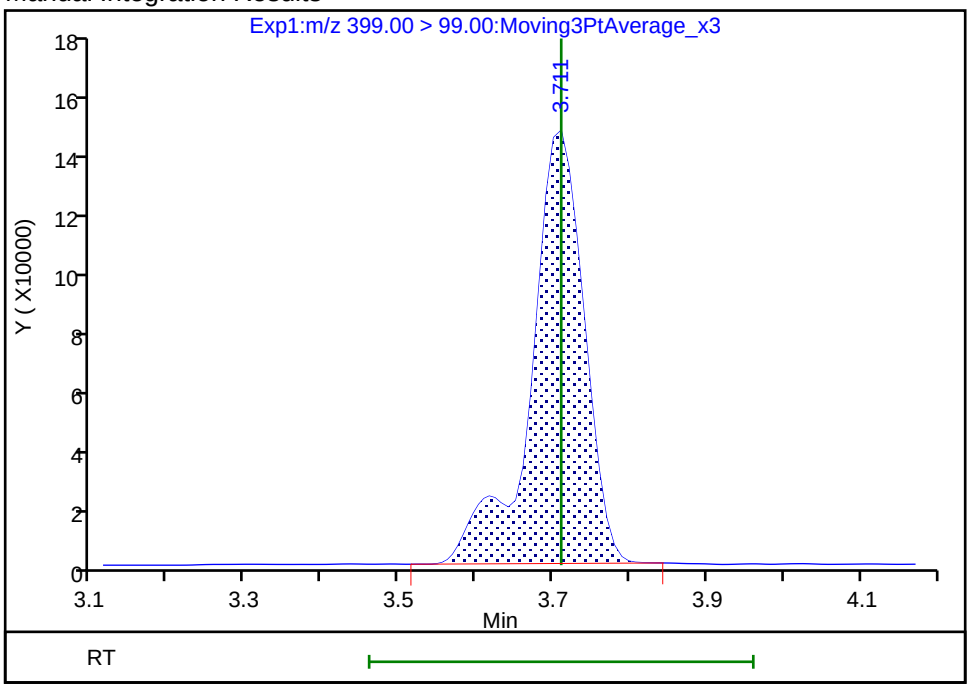
Processing Integration Results

RT: 3.71
Area: 705141
Amount: 0.872368
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 697402
Amount: 0.858022
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:00:58
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

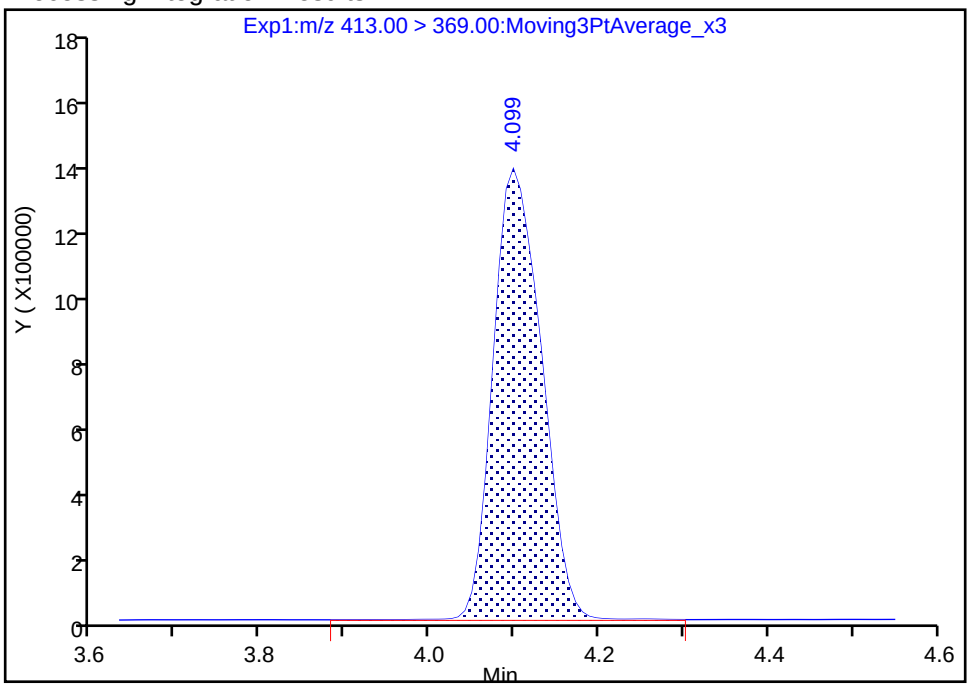
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d
Injection Date: 11-Sep-2020 11:10:24 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

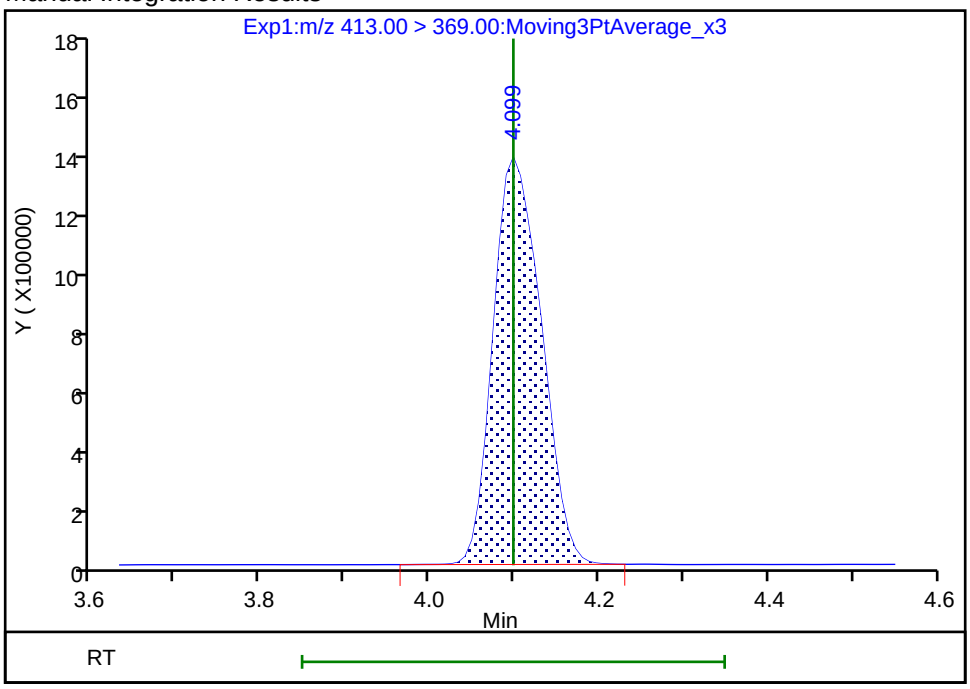
Processing Integration Results

RT: 4.10
Area: 5372454
Amount: 1.048830
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 5309552
Amount: 1.036550
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:01:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

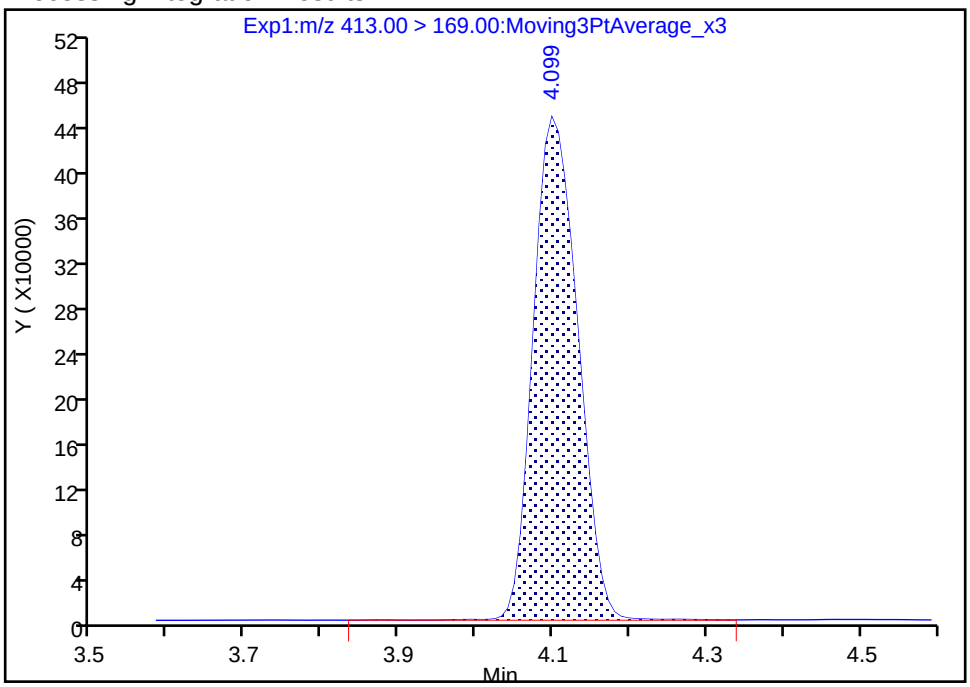
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d				
Injection Date:	11-Sep-2020 11:10:24	Instrument ID:	A18		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	52	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

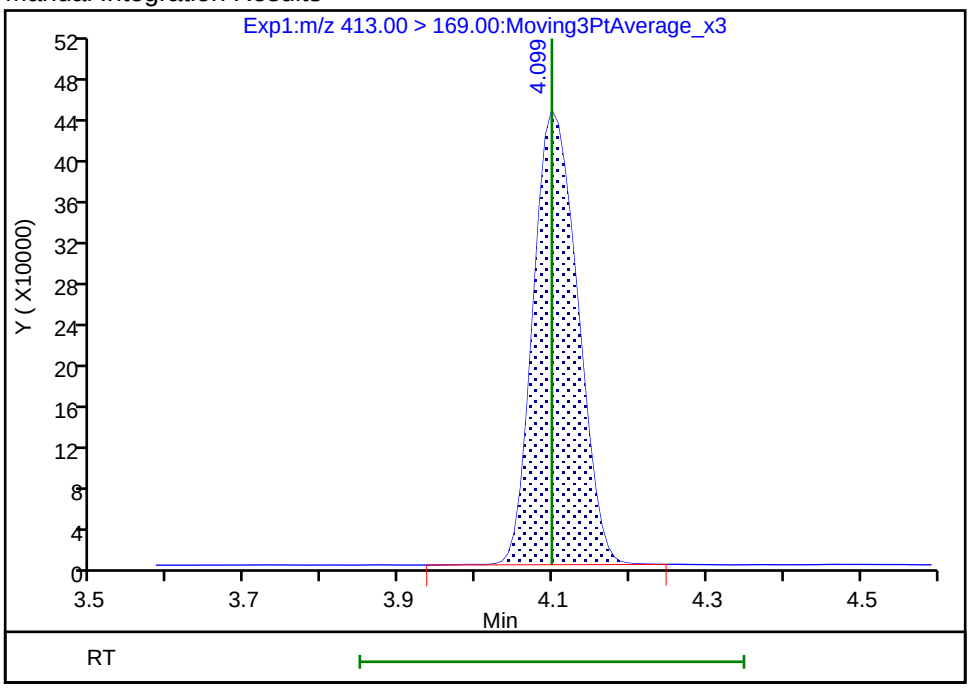
Processing Integration Results

RT: 4.10
Area: 1786161
Amount: 1.048830
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 1775774
Amount: 1.036550
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:01:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

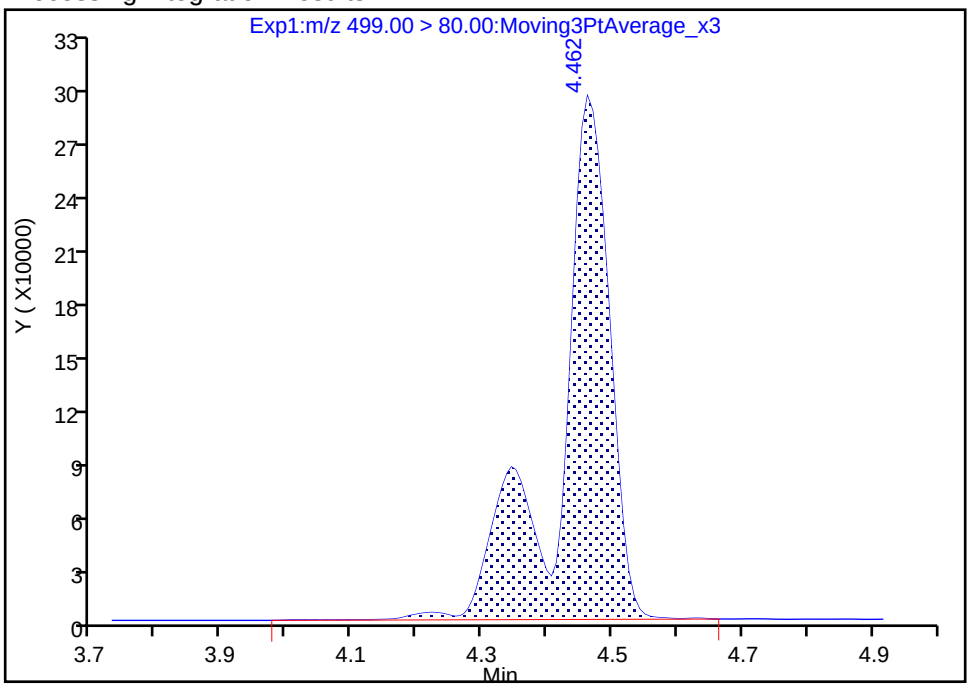
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d
Injection Date: 11-Sep-2020 11:10:24 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

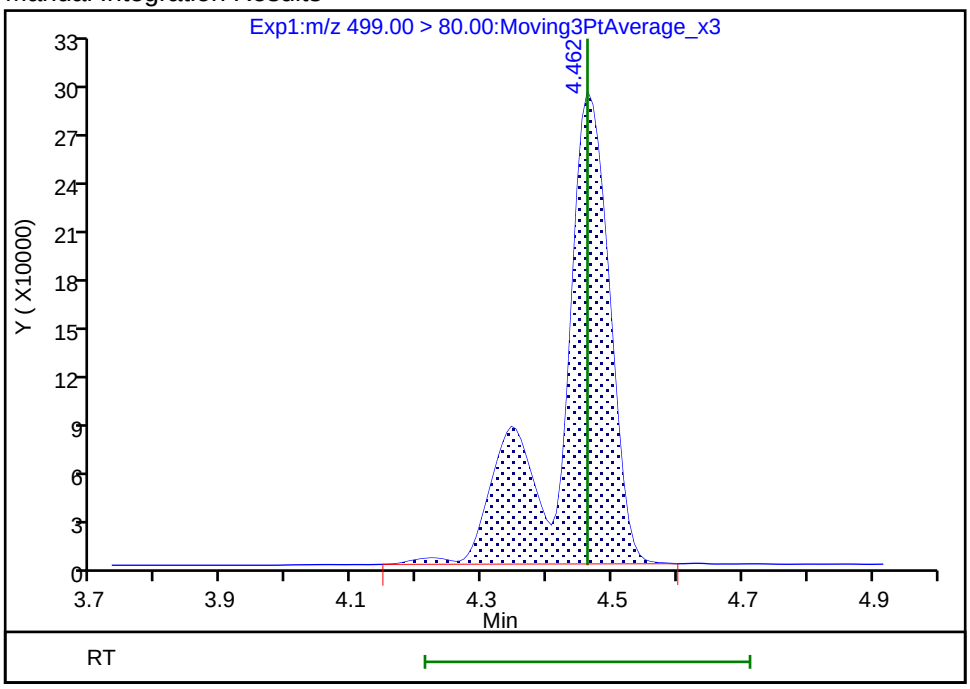
Processing Integration Results

RT: 4.46
Area: 1601184
Amount: 1.003978
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 1589264
Amount: 0.996504
Amount Units: ng/ml



Reviewer: fariasa, 11-Sep-2020 11:41:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

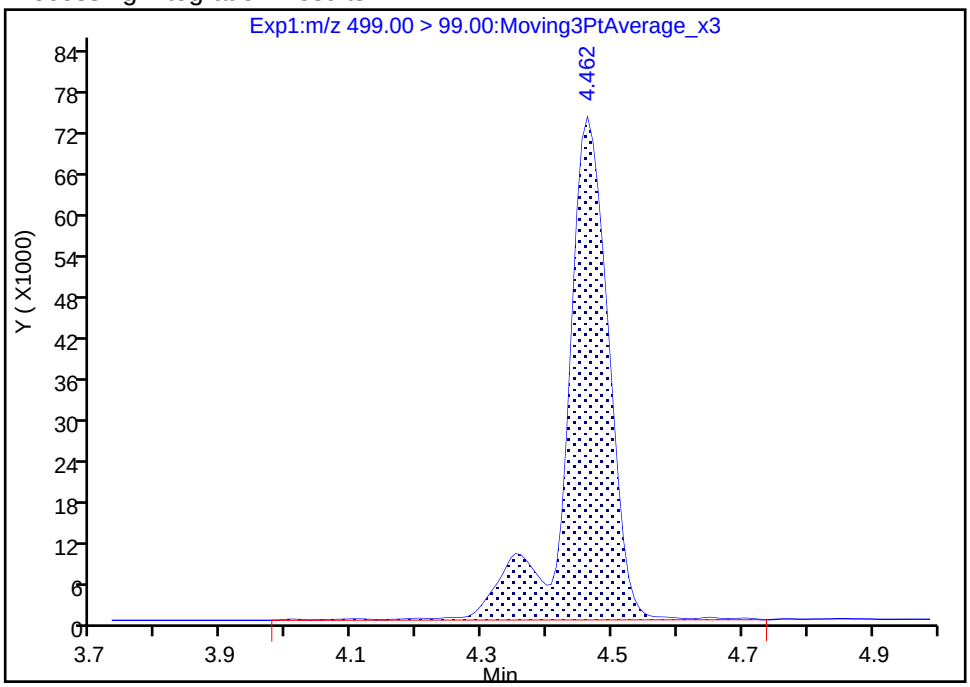
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_006.d				
Injection Date:	11-Sep-2020 11:10:24	Instrument ID:	A18		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	52	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00 mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

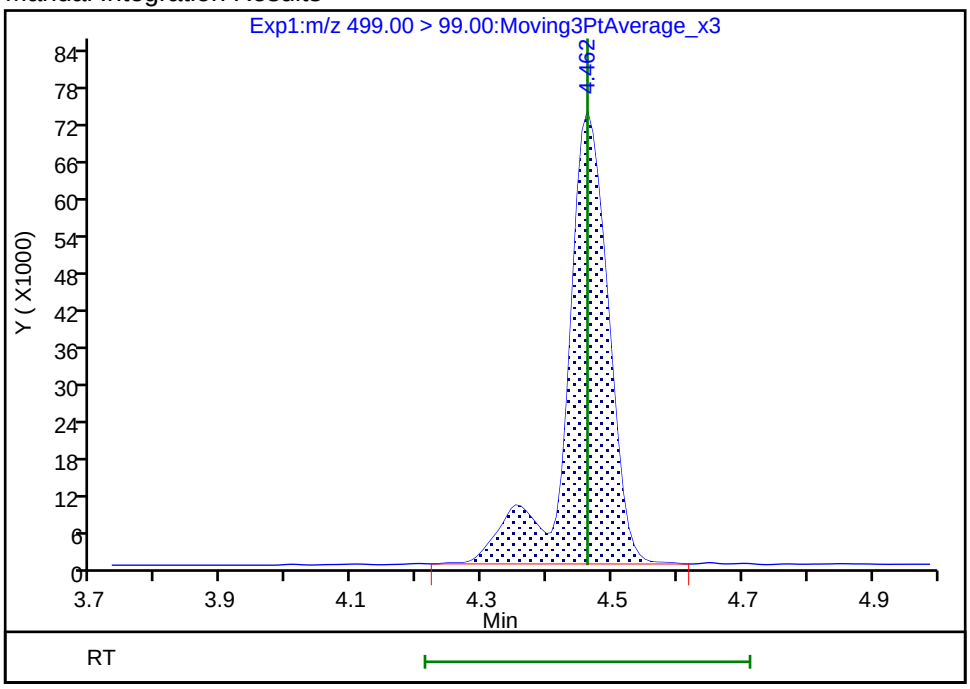
Processing Integration Results

RT: 4.46
Area: 335115
Amount: 1.003978
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 328773
Amount: 0.996504
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:01:26
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411377/1 Calibration Date: 09/11/2020 12:32

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_015.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.9127		2.63	2.50	5.2	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.060		2.66	2.50	6.3	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.072		2.35	2.21	6.1	50.0
4:2 FTS	AveID	2.273	2.465		2.53	2.34	8.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	1.011		2.62	2.50	4.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.8360		2.47	2.35	5.5	50.0
HFPO-DA (GenX)	AveID	0.9742	1.061		2.72	2.50	8.9	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	0.999		2.46	2.50	-1.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.095		2.11	2.28	-7.3	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	10.14		2.49	2.36	5.8	50.0
6:2 FTS	AveID	2.299	2.307		2.38	2.37	0.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.164		2.48	2.38	4.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.042		2.56	2.50	2.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.079		2.42	2.32	4.2	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	0.9553		2.50	2.51	-0.4	40.0
F-53B Major	AveID	3.236	3.345		2.41	2.33	3.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9297		2.50	2.50	-0.0	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	0.9570		2.45	2.40	2.2	50.0
8:2 FTS	AveID	1.775	1.843		2.49	2.40	3.8	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.8666		2.25	2.50	-10.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.7654		2.58	2.50	3.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.8653		2.50	2.41	3.6	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.8480		2.93	2.50	16.9	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.7317		2.71	2.50	8.3	40.0
NMeFOSE	AveID	1.080	1.187		2.75	2.50	10.0	40.0
NMeFOSA	AveID	0.9606	1.166		3.04	2.50	21.4	50.0
F-53B Minor	AveID	4.102	4.160		2.39	2.36	1.4	50.0
NEtFOSE	AveID	1.073	1.198		2.79	2.50	11.6	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.8837		2.17	2.52	-13.6	40.0
NEtFOSA	AveID	1.058	1.184		2.80	2.50	11.9	40.0
10:2 FTS	AveID	2.014	2.219		2.66	2.41	10.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3213		2.34	2.42	-3.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411377/1 Calibration Date: 09/11/2020 12:32

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_015.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	1.158		3.08	2.50	23.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.0895		2.65	2.50	6.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9463		2.67	2.50	6.9	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.9594		3.63	2.50	45.3	50.0
13C4 PFBA	Ave	1.585	1.465		2.31	2.50	-7.6	50.0
13C5 PFPeA	Ave	1.233	1.094		2.22	2.50	-11.3	50.0
13C3 PFBS	Ave	0.9684	0.9539		2.29	2.33	-1.5	50.0
M2-4:2 FTS	Ave	0.2333	0.2027		2.03	2.34	-13.1	50.0
13C2 PFHxA	Ave	1.231	1.186		2.41	2.50	-3.6	50.0
13C3 HFPO-DA	Ave	0.2518	0.2326		2.31	2.50	-7.6	50.0
13C4 PFHpA	Ave	1.051	1.059		2.52	2.50	0.8	50.0
18O2 PFHxS	Ave	0.5117	0.5307		2.45	2.37	3.7	50.0
M2-6:2 FTS	Ave	0.1958	0.1717		2.08	2.38	-12.3	50.0
13C4 PFOA	Ave	1.001	1.075		2.68	2.50	7.4	50.0
13C4 PFOS	Ave	0.3465	0.3492		2.41	2.39	0.8	50.0
13C5 PFNA	Ave	0.8063	0.8479		2.63	2.50	5.2	50.0
13C8 FOSA	Ave	0.5590	0.5487		2.45	2.50	-1.8	50.0
13C2 PFDA	Ave	0.7829	0.8298		2.65	2.50	6.0	50.0
M2-8:2 FTS	Ave	0.2823	0.2452		2.08	2.40	-13.1	50.0
d3-NMeFOSAA	Ave	0.5255	0.4886		2.33	2.50	-7.0	50.0
13C2 PFUnA	Ave	0.7758	0.8438		2.72	2.50	8.8	50.0
d5-NEtFOSAA	Ave	0.5556	0.5150		2.32	2.50	-7.3	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1606		14.5	12.5	16.0	50.0
d-N-MeFOSA-M	Ave	0.1965	0.1803		2.29	2.50	-8.3	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.1982		14.6	12.5	16.6	50.0
13C2 PFDoA	Ave	0.7650	0.8183		2.67	2.50	7.0	50.0
d-N-EtFOSA-M	Ave	0.2011	0.1774		2.21	2.50	-11.8	50.0
13C2 PFTeDA	Ave	0.6311	0.7346		2.91	2.50	16.4	50.0
13C2 PFHxDA	Ave	0.4618	0.4817		2.61	2.50	4.3	50.0
13C8 PFOA	Ave	0.6756	0.7151		2.59	2.45	5.8	50.0
13C8 PFOS	Ave	0.1082	0.1042		2.30	2.39	-3.7	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 11-Sep-2020 12:32:41 ALS Bottle#: 53 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 09:08:18 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 09:08:18
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.566	2.566	0.0	0.627	17022673	2.31		92.4	8896	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.566	2.566	0.0	1.000	15537184	2.63		105	649	
D 4 13C5 PFPeA										
267.90 > 223.00	2.909	2.909	0.0	0.711	12712778	2.22		88.7	4618	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.920	2.920	0.0	1.004	13477479	2.66		106	547	
D 9 13C3 PFBS										
301.90 > 80.00	2.951	2.951	0.0	0.721	10307192	2.29		98.5	4774	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.951	2.951	0.0	1.000	10499031	2.35	Target=2.30	106	2167	
298.90 > 99.00	2.951	2.951	0.0	1.000	4429924		2.37(1.15-3.45)		1336	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.251	3.251	0.0	0.794	2199940	2.03		86.9	1044	
8 4:2 FTS										
327.00 > 307.00	3.251	3.251	0.0	1.000	5422076	2.53		108	11332	
D 11 13C2 PFHxA										
315.00 > 270.00	3.290	3.290	0.0	0.804	13783400	2.41		96.4	5344	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.290	3.290	0.0	1.000	13930774	2.62	Target=13.78	105	775	
313.00 > 119.00	3.290	3.290	0.0	1.000	1058367		13.16(6.89-20.66)		506	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.312	3.312	0.0	1.122	8690785	2.47	Target=3.02	105	1661	
349.00 > 99.00	3.312	3.312	0.0	1.122	2934866		2.96(1.51-4.52)		1388	
13 HPFO-DA										
285.00 > 169.00	3.418	3.418	0.0	1.000	2867202	2.72		109	4533	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.418	3.418	0.0	0.835	2703167	2.31		92.4	4476	
D 18 13C4 PFHpA										
367.00 > 322.00	3.702	3.702	0.0	0.905	12305371	2.52		101	5229	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.702	3.702	0.0	1.000	12287192	2.46	Target=3.84	98.5	1064	
363.00 > 169.00	3.702	3.702	0.0	1.000	3326747		3.69(1.92-5.76)		1861	
D 17 18O2 PFHxS										
403.00 > 84.00	3.702	3.702	0.0	0.905	5833710	2.45		104	5843	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.702	3.702	0.0	1.000	6145849	2.11	Target=3.50	92.7	1822	
399.00 > 99.00	3.702	3.702	0.0	1.000	1836497		3.35(1.75-5.25)		1017	
19 DONA										
377.00 > 251.00	3.751	3.751	0.0	0.842	38747006	2.49	Target=2.42	106	11295	
377.00 > 85.00	3.751	3.751	0.0	0.842	15998952		2.42(1.21-3.63)		6574	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.068	4.068	0.0	0.994	1895649	2.08		87.7	1205	
21 6:2 FTS										
427.00 > 407.00	4.068	4.068	0.0	1.000	4364000	2.38		100	3875	
$ 26 13C8 PFOA										
421.00 > 376.00	4.084	4.084	0.0	0.998	8134639	2.59		106	6040	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.084	4.084	0.0	0.917	4498355	2.48	Target=4.40	104	1568	
449.00 > 99.00	4.084	4.084	0.0	0.917	1033712		4.35(2.20-6.60)		1042	
D 25 13C4 PFOA										
417.00 > 372.00	4.092	4.092	0.0	1.000	12487081	2.68		107	8877	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.092	4.092	0.0	1.000	13024813	2.56	Target=2.94	102	1920	
413.00 > 169.00	4.092	4.092	0.0	1.000	4483394		2.91(1.47-4.41)		388891	
* 23 13C2 PFOA										
415.00 > 370.00	4.092	4.092	0.0		11619087	2.50			5393	
$ 28 13C8 PFOS										
507.00 > 99.00	4.454	4.454	0.0	1.088	1157902	2.30		96.3	2354	
D 27 13C4 PFOS										
503.00 > 80.00	4.454	4.454	0.0	1.088	3879252	2.41		101	1667	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.454	4.454	0.0	1.000	4062986	2.42	Target=4.53	104	1020	M
499.00 > 99.00	4.454	4.454	0.0	1.000	861653		4.72(2.26-6.79)		824	M
D 30 13C5 PFNA										
468.00 > 423.00	4.470	4.470	0.0	1.092	9851275	2.63		105	7582	
31 Perfluorononanoic acid										
463.00 > 419.00	4.478	4.478	0.0	1.002	9429827	2.50	Target=8.97	99.6	1333	
463.00 > 169.00	4.470	4.478	-0.008	1.000	1166806		8.08(4.48-13.45)		1463	
32 9ClFOS										
531.00 > 351.00	4.658	4.658	0.0	1.046	12652175	2.41		103	11858	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.169	6375070	2.45		98.2	8041	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.000	5927154	2.50		99.9	4751	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.803	4.803	0.0	1.078	3727919	2.45	Target=2.85	102	2101	
549.00 > 99.00	4.803	4.803	0.0	1.078	1341279		2.78(1.43-4.28)		1663	
D 39 13C2 PFDA										
515.00 > 470.00	4.828	4.828	0.0	1.180	9641548	2.65		106	6814	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.828	4.828	0.0	1.000	8354947	2.25	Target=10.16	89.9	1864	
513.00 > 169.00	4.828	4.828	0.0	1.000	773192		10.81(5.08-15.24)		203	
36 8:2 FTS										
527.00 > 507.00	4.828	4.828	0.0	1.000	5031223	2.49		104	9115	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.828	4.828	0.0	1.180	2729589	2.08		86.9	1588	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.000	5.000	0.0	1.222	5676981	2.32		93.0	3277	
41 NMeFOSAA										
570.00 > 419.00	5.000	5.000	0.0	1.000	4345165	2.58		103	228595	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.120	5.120	0.0	1.150	3384841	2.50	Target=2.77	104	2141	
599.00 > 99.00	5.120	5.120	0.0	1.150	1194021		2.83(1.38-4.15)		2364	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.148	5.148	0.0	0.998	8321844	2.93	Target=8.43	117	2721	
563.00 > 169.00	5.148	5.148	0.0	0.998	867029		9.60(4.22-12.65)		1592	
D 43 13C2 PFUnA										
565.00 > 520.00	5.157	5.157	0.0	1.260	9804030	2.72		109	9716	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.157	5.157	0.0	1.260	5983583	2.32		92.7	3331	
46 NEtFOSA										
584.00 > 419.00	5.166	5.166	0.0	1.002	4378026	2.71		108	58786	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.249	5.249	0.0	1.283	9329364	14.5		116	4407	
48 N-MeFOSE-M										
616.00 > 59.00	5.259	5.259	0.0	1.002	2215179	2.75		110	2070	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.269	5.269	0.0	1.288	2094499	2.29		91.7	40.4	
50 NMeFOSA										
512.00 > 169.00	5.269	5.269	0.0	1.000	2442943	3.04		121	657	
51 11ClFOS										
631.00 > 451.00	5.290	5.290	0.0	1.188	15902445	2.39		101	14909	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.415	5.415	0.0	1.323	11515359	14.6		117	6037	
53 N-EtFOSE-M										
630.00 > 59.00	5.437	5.437	0.0	1.004	2758336	2.79		112	2674	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.448	5.448	0.0	1.000	8452131	2.17	Target=9.12	86.4	2072	
613.00 > 169.00	5.448	5.448	0.0	1.000	978306		8.64(4.56-13.69)		1459	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	5.448	5.448	0.0	1.331	9507876	2.67		107	7054	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.448	5.448	0.0	1.331	2060864	2.20		88.2	195	
55 N-EtFOSA-M										
526.00 > 169.00	5.458	5.458	0.0	1.002	2440402	2.80		112	396	
58 10:2 FTS										
627.00 > 607.00	5.469	5.469	0.0	1.133	6094498	2.66		110	10057	
59 PFDoS										
699.00 > 80.00	5.666	5.666	0.0	1.272	1262048	2.34	Target=0.72	96.5	1189	
699.00 > 99.00	5.678	5.666	0.012	1.275	1843492		0.68(0.36-1.07)		2699	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.712	5.712	0.0	1.049	11007379	3.08	Target=6.78	123	5750	
663.00 > 169.00	5.712	5.712	0.0	1.049	1470593		7.48(3.39-10.17)		2348	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.959	5.959	0.0	1.456	8535883	2.91		116	7581	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.959	5.959	0.0	1.000	764528	2.65	Target=0.85	106	1981	
713.00 > 219.00	5.948	5.959	-0.011	0.998	688253		1.11(0.43-1.28)		3173	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.394	6.394	0.0	1.562	5597075	2.61		104	6024	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.394	6.394	0.0	1.000	5296267	2.67	Target=10.21	107	2641	
813.00 > 169.00	6.394	6.394	0.0	1.000	463731		11.42(5.11-15.32)		1909	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.848	6.848	0.0	1.071	5369978	3.63	Target=12.45	145	2634	
913.00 > 169.00	6.841	6.848	-0.007	1.070	395702		13.57(6.22-18.67)		2006	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL5_00031 Amount Added: 1.00 Units: mL

Report Date: 14-Sep-2020 09:08:19 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d

Injection Date: 11-Sep-2020 12:32:41 Instrument ID: A18

Lims ID: CCV L5

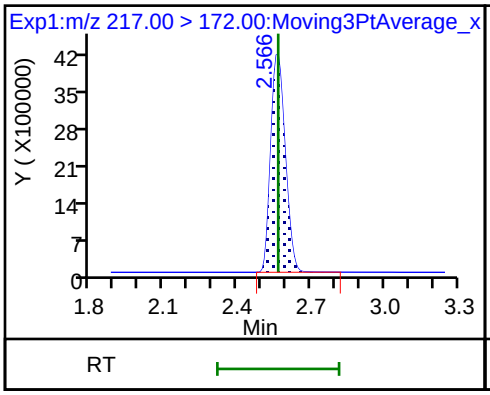
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 53 Worklist Smp#: 1

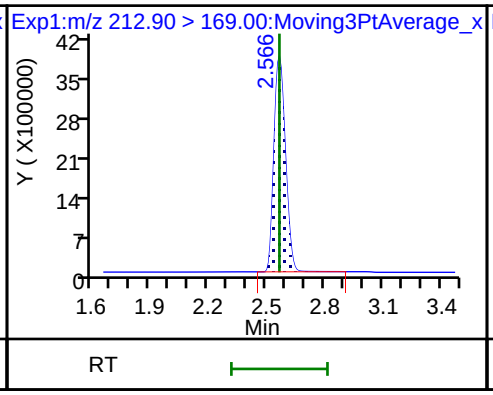
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

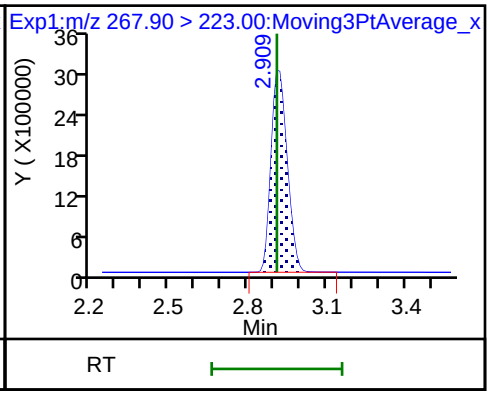
D 1 13C4 PFBA



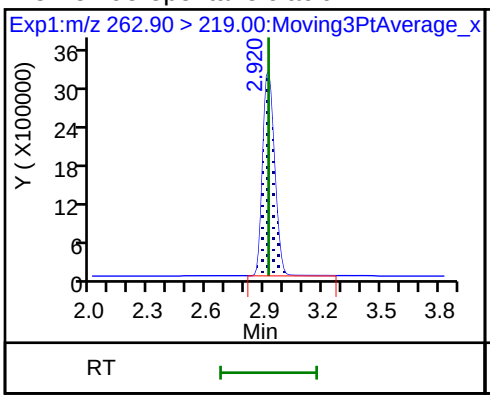
2 Perfluorobutanoic acid



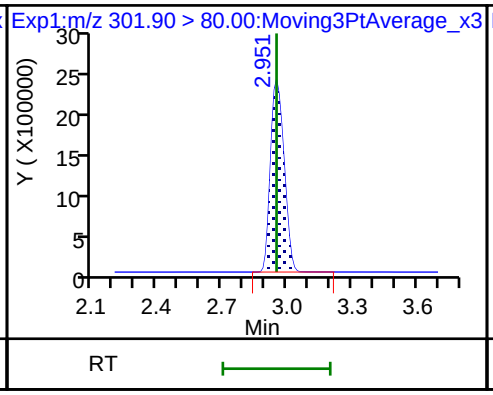
D 4 13C5 PFPeA



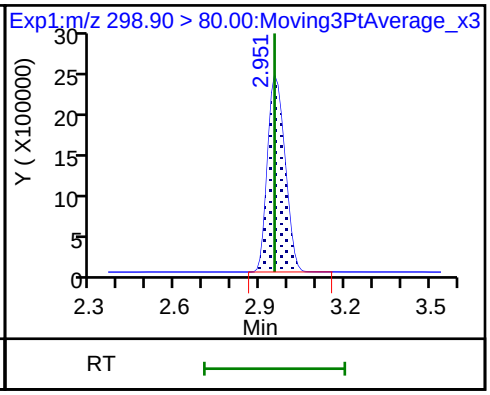
5 Perfluoropentanoic acid



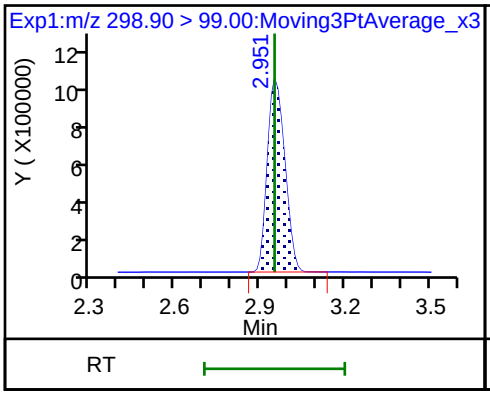
D 9 13C3 PFBS



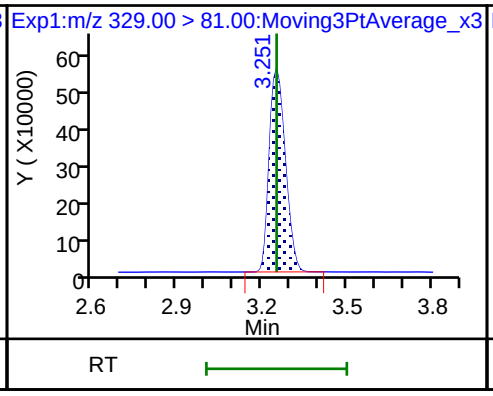
6 Perfluorobutanesulfonic acid



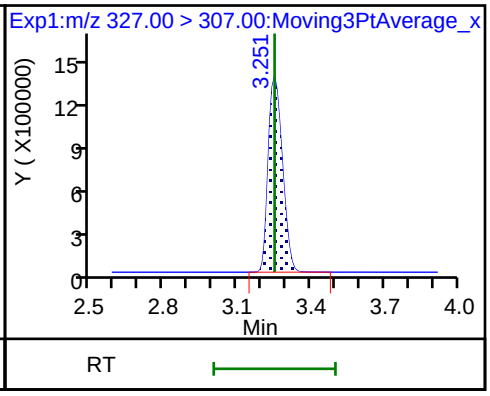
6 Perfluorobutanesulfonic acid



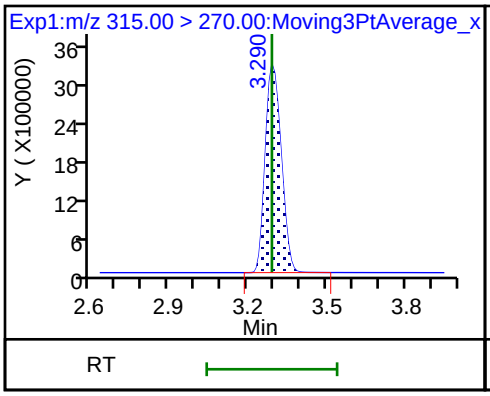
D 7 M2-4:2 FTS



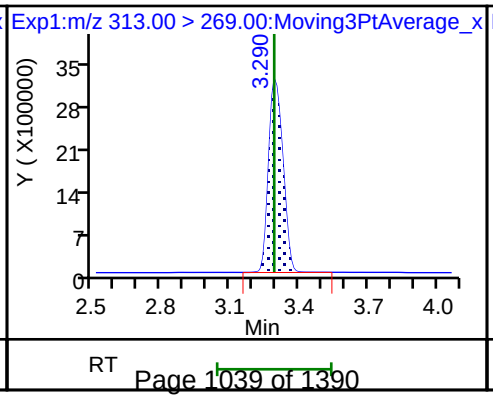
8 4:2 FTS



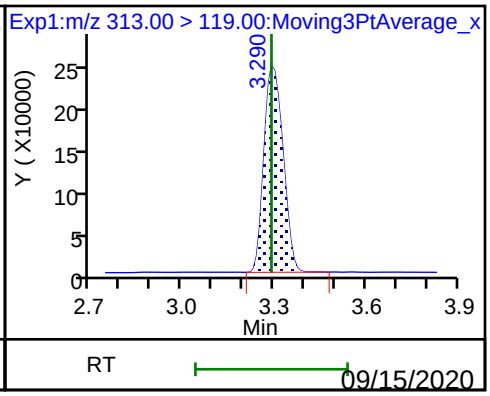
D 11 13C2 PFHxA



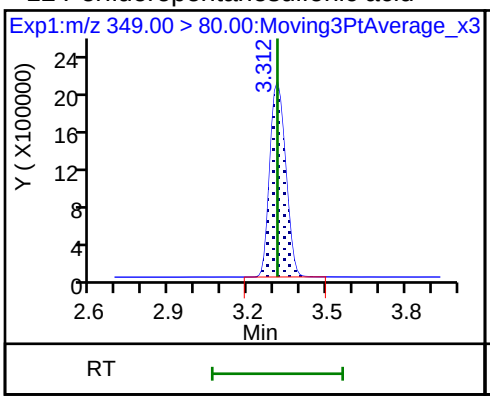
10 Perfluorohexanoic acid



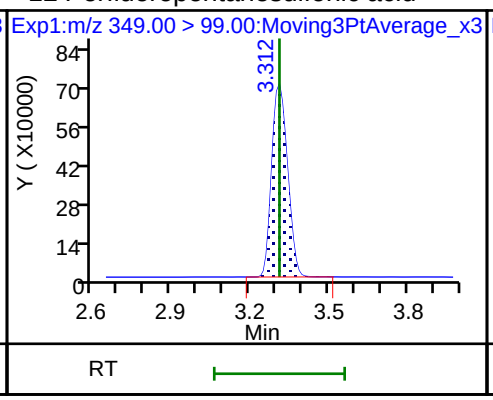
10 Perfluorohexanoic acid



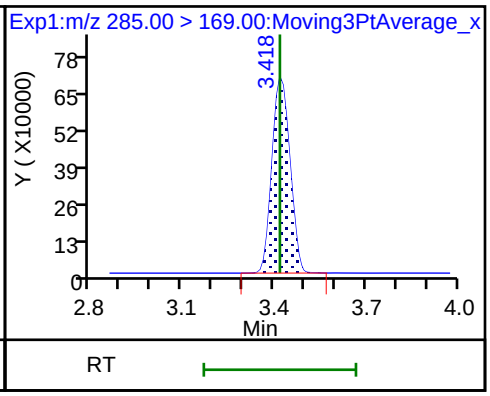
12 Perfluoropentanesulfonic acid



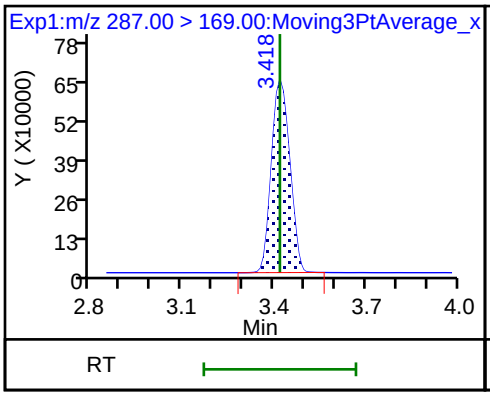
12 Perfluoropentanesulfonic acid



13 HPFO-DA



D 14 13C3 HFPO-DA



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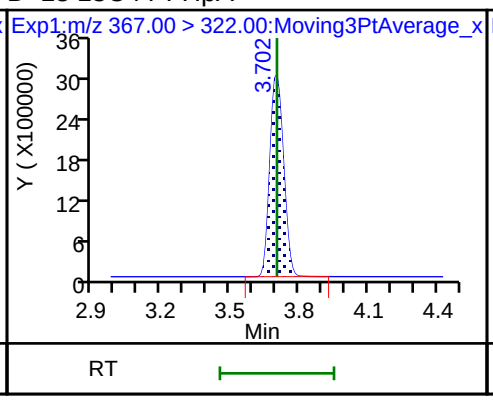
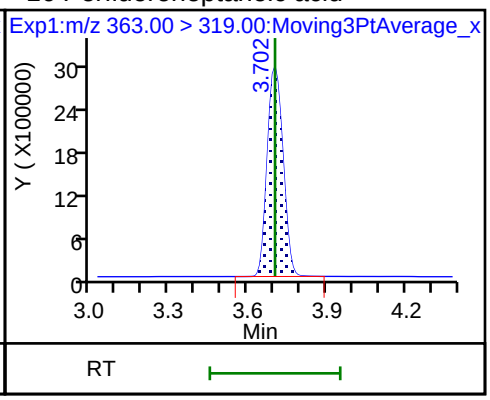
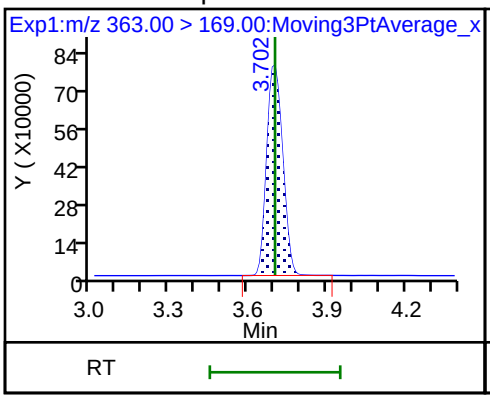


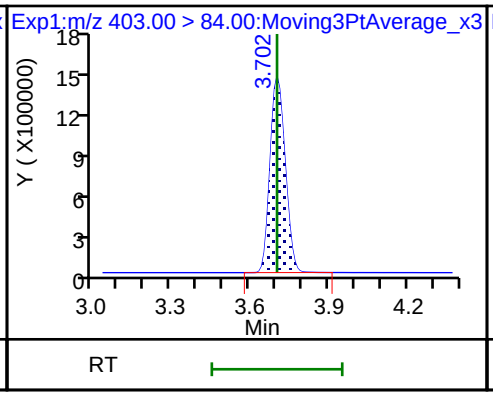
16 Perfluoroheptanoic acid



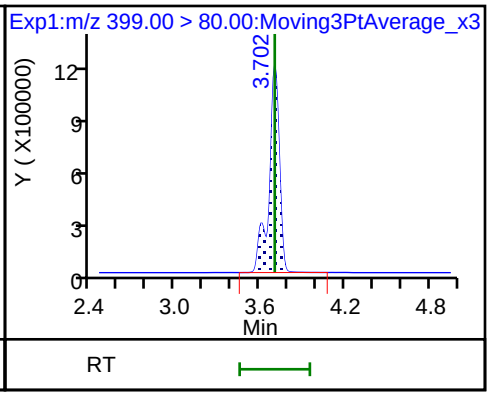
16 Perfluoroheptanoic acid



D 17 18O2 PFHxS



15 Perfluorohexanesulfonic acid



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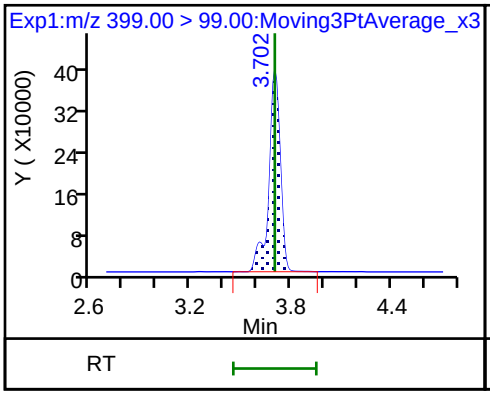
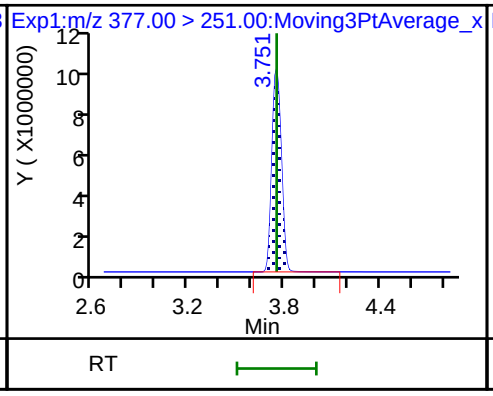
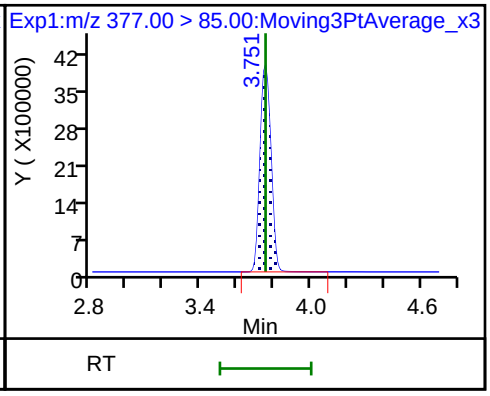


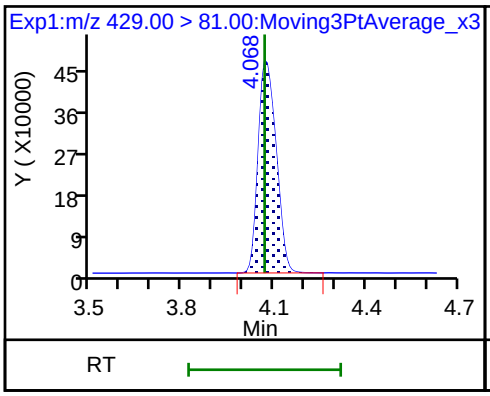
19 DONA



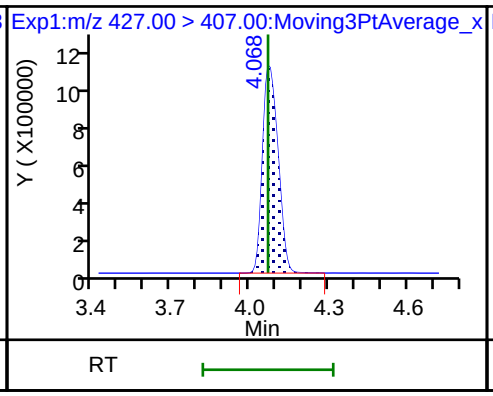
19 DONA



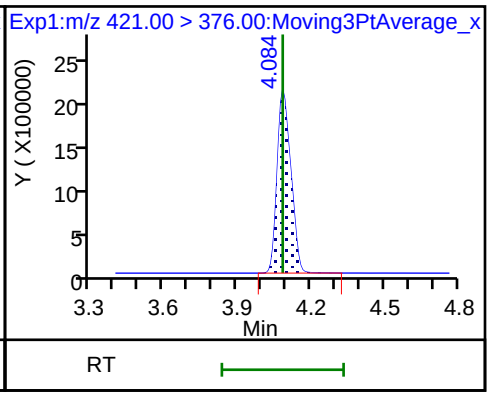
D 20 M2-6:2 FTS



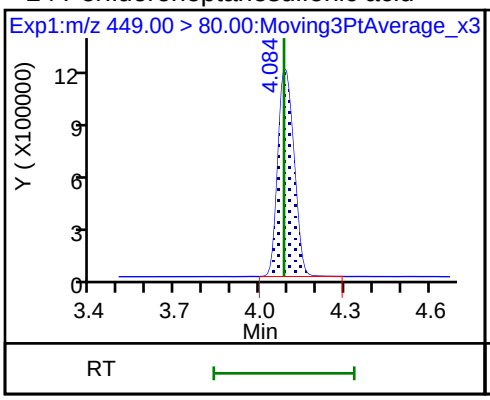
21 6:2 FTS



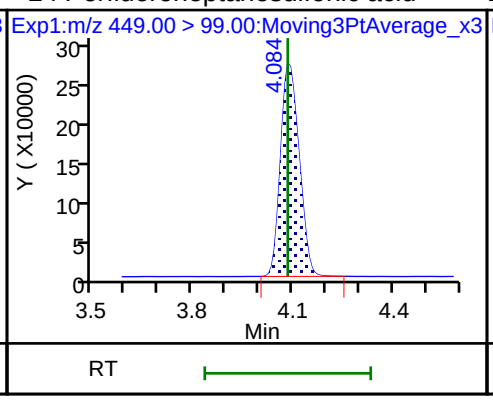
$ 26 13C8 PFOA



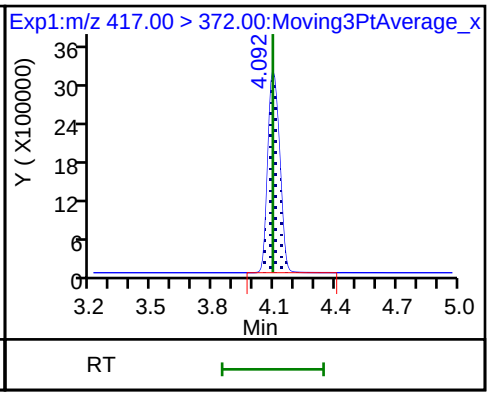
24 Perfluoroheptanesulfonic acid



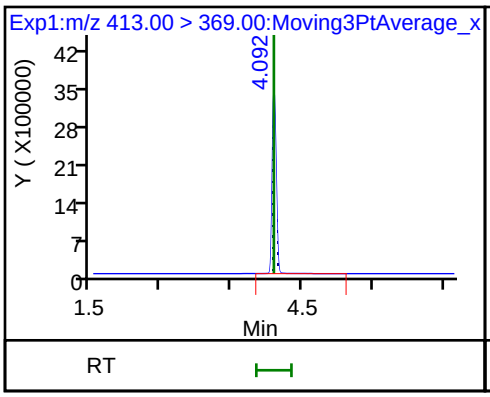
24 Perfluoroheptanesulfonic acid



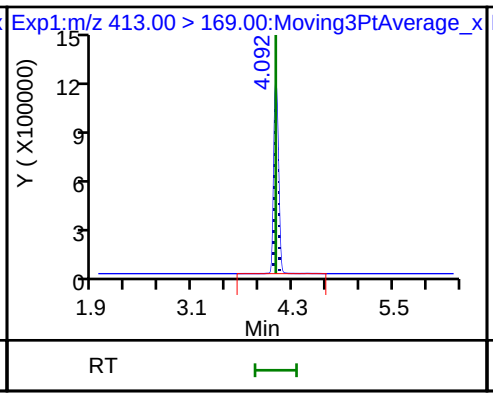
D 25 13C4 PFOA



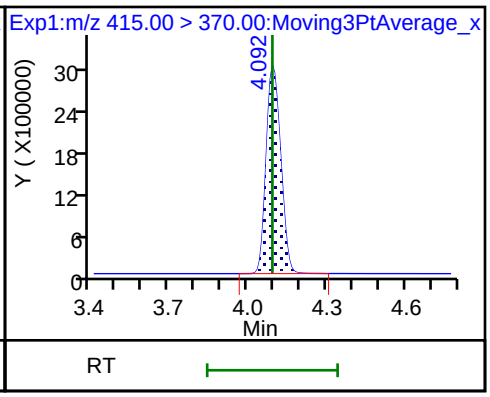
22 Perfluorooctanoic acid



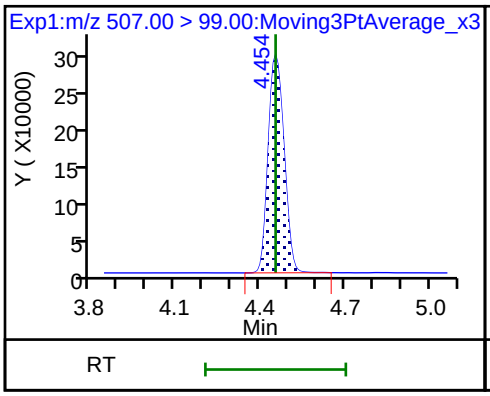
22 Perfluorooctanoic acid



* 23 13C2 PFOA



$ 28 13C8 PFOS



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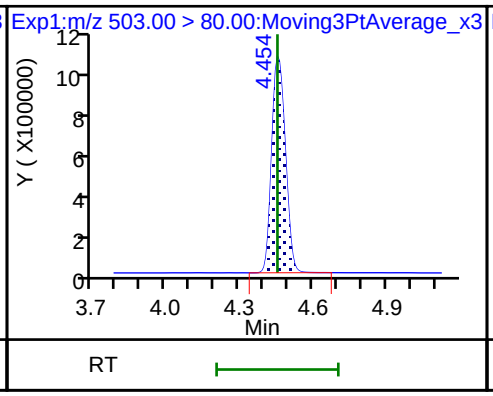
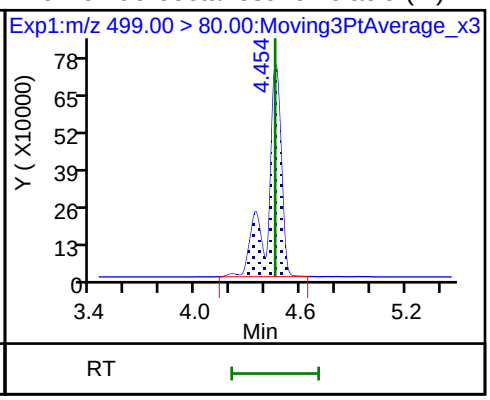
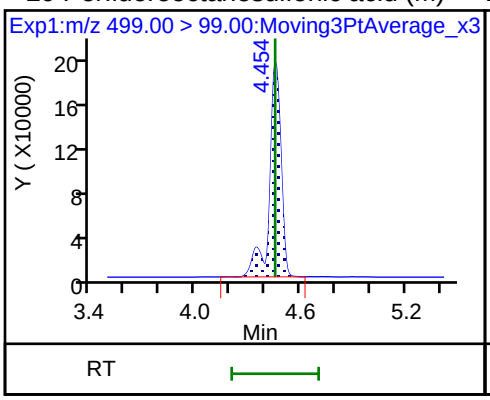


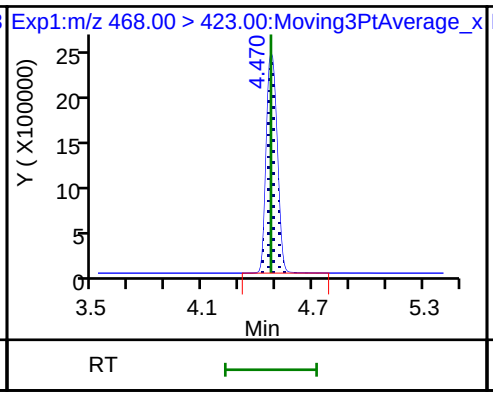
29 Perfluorooctanesulfonic acid (M)



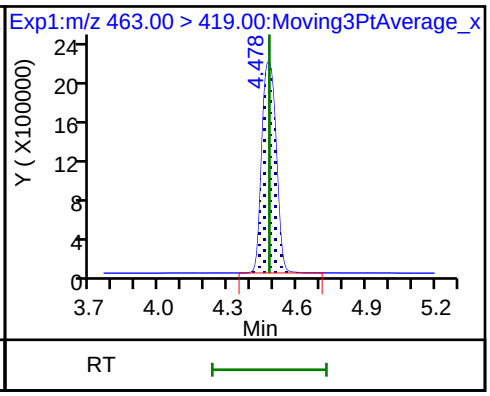
29 Perfluorooctanesulfonic acid (M)



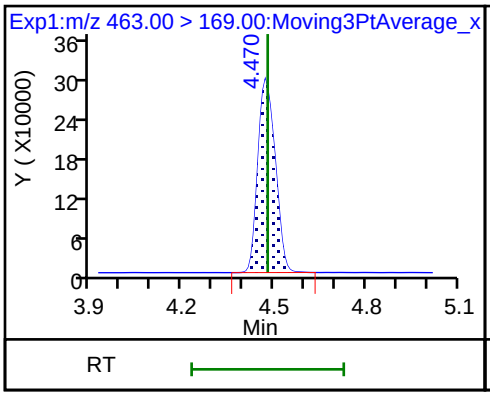
D 30 13C5 PFNA



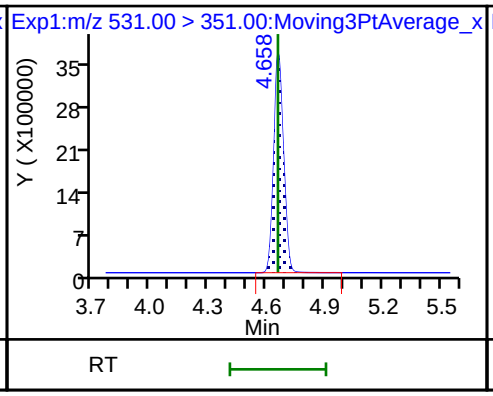
31 Perfluorononanoic acid



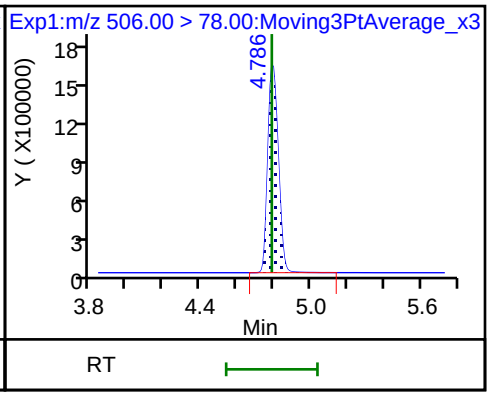
31 Perfluorononanoic acid



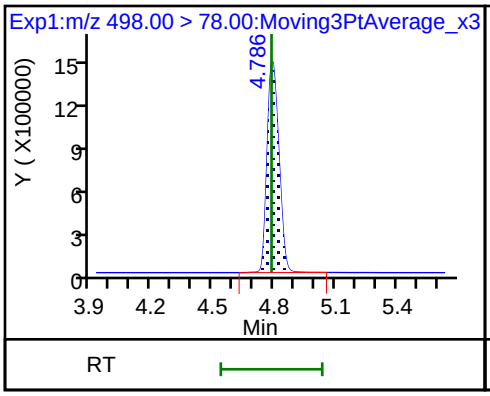
32 9ClFOS



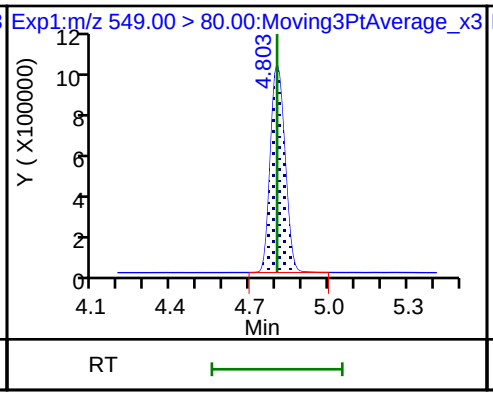
D 33 13C8 FOSA



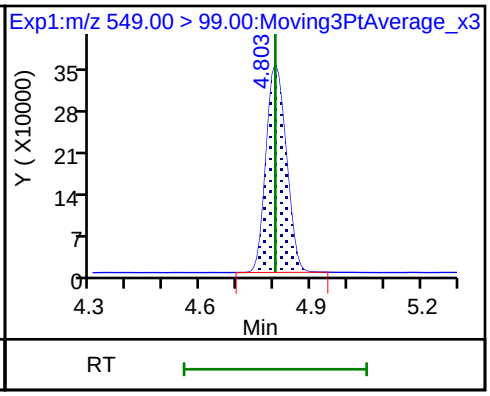
34 Perfluorooctanesulfonamide



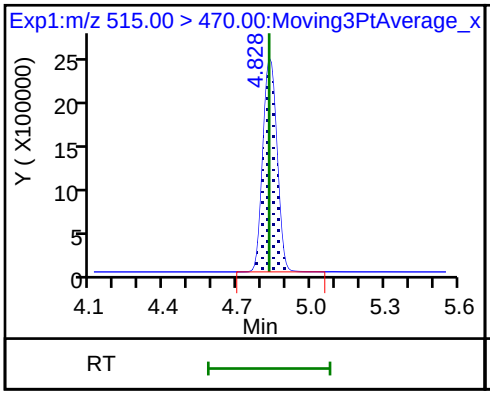
35 Perfluorononanesulfonic acid



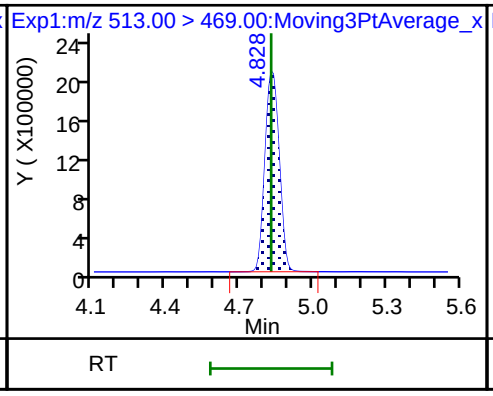
35 Perfluorononanesulfonic acid



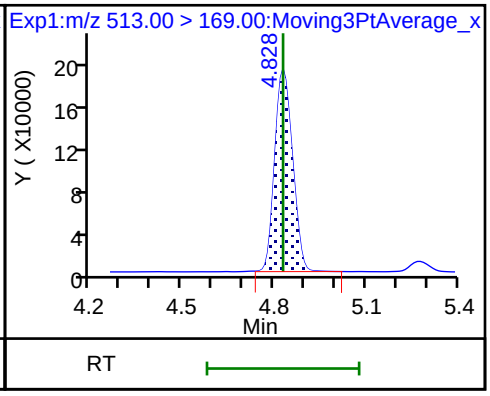
D 39 13C2 PFDA



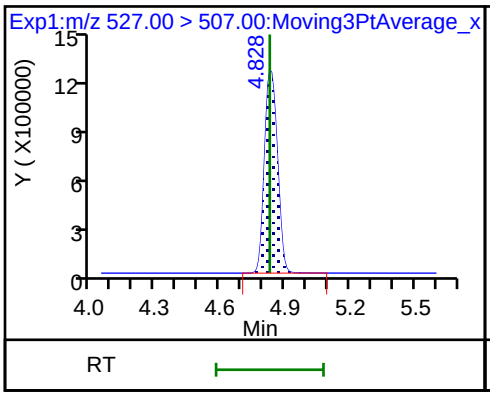
37 Perfluorodecanoic acid



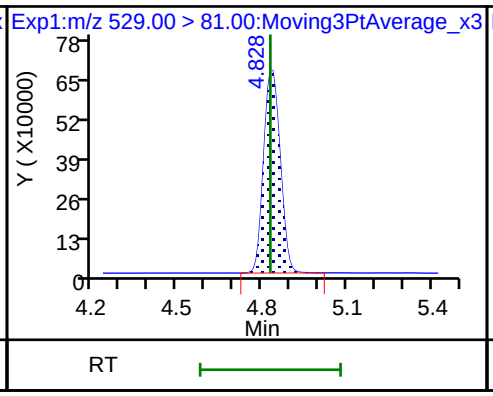
37 Perfluorodecanoic acid



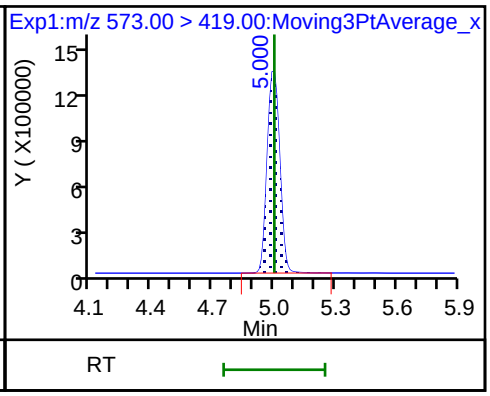
36 8:2 FTS



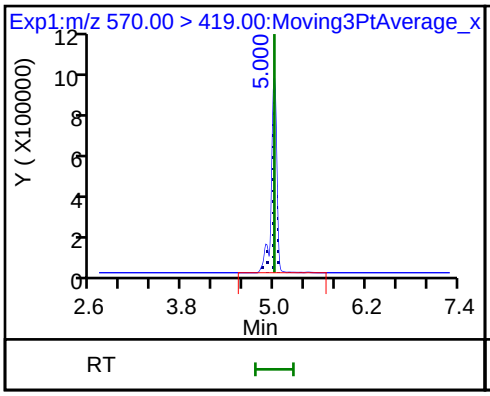
D 38 M2-8:2 FTS



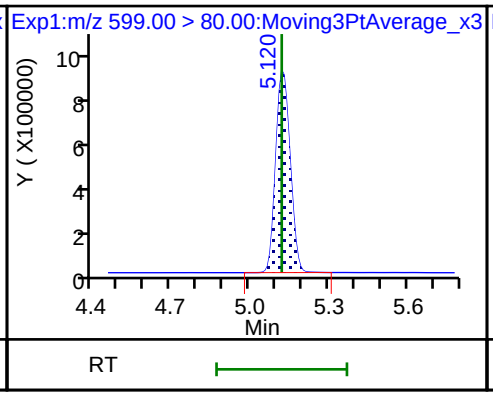
D 40 d3-NMeFOSAA



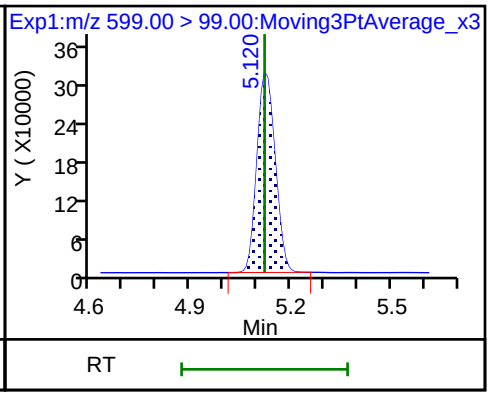
41 NMeFOSAA



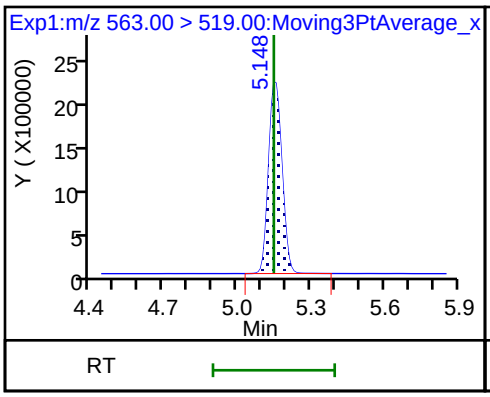
42 Perfluorodecanesulfonic acid



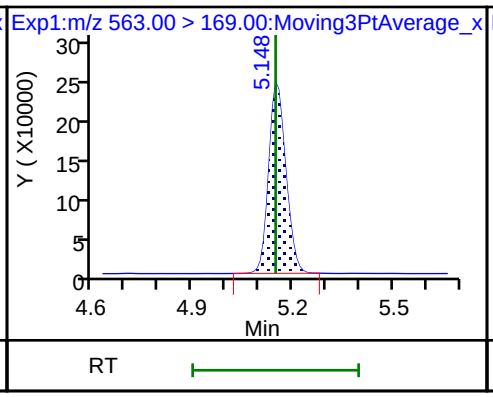
42 Perfluorodecanesulfonic acid



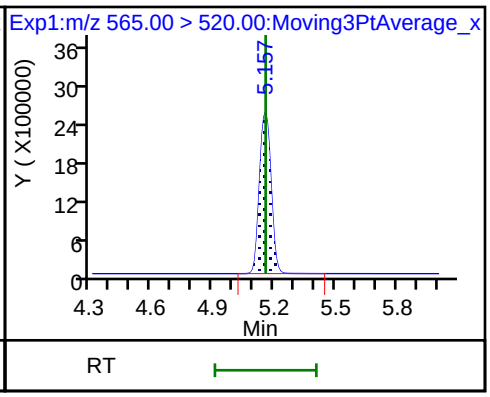
45 Perfluoroundecanoic acid



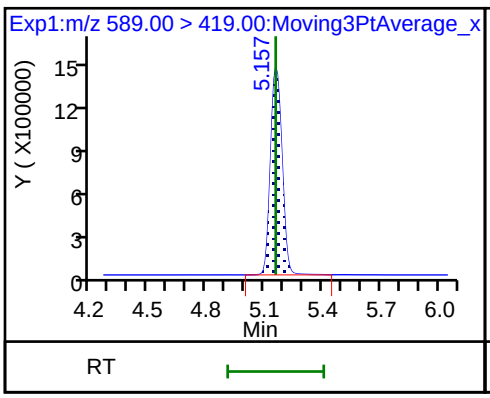
45 Perfluoroundecanoic acid



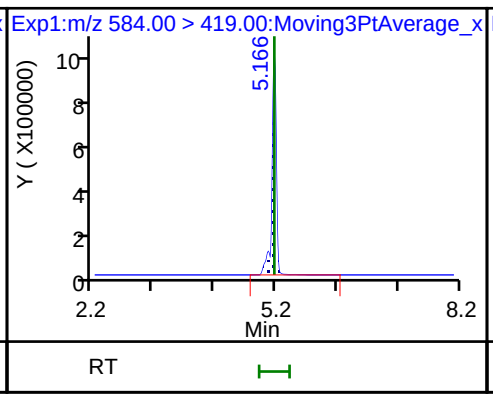
D 43 13C2 PFUnA



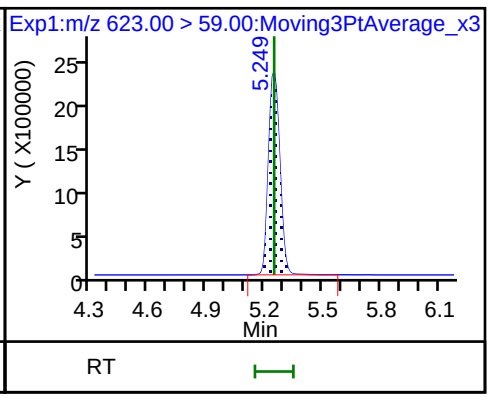
D 44 d5-NEtFOSAA



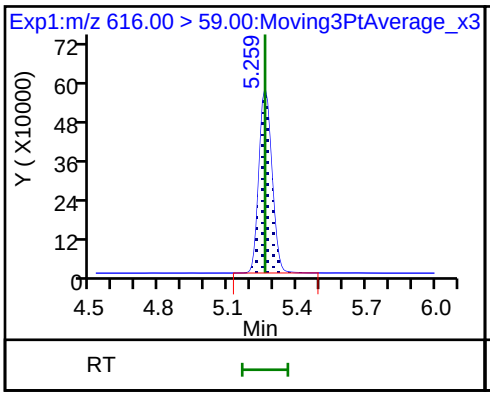
46 NEtFOSA



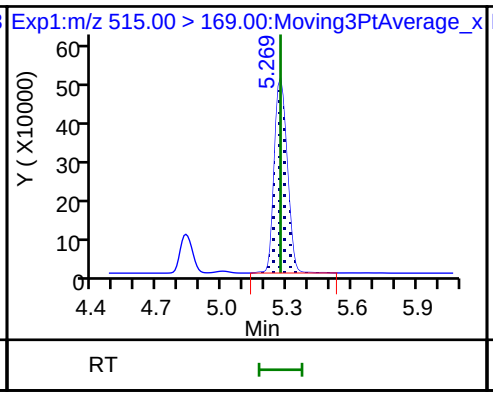
D 47 d7-N-MeFOSE-M



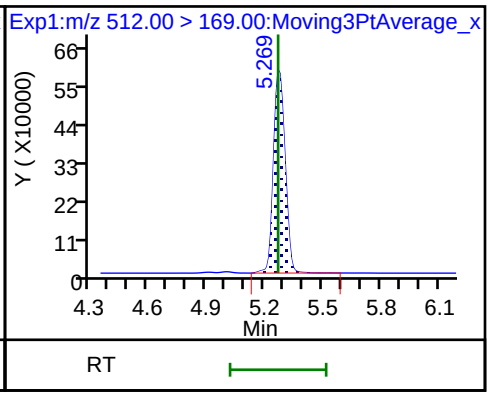
48 N-MeFOSE-M



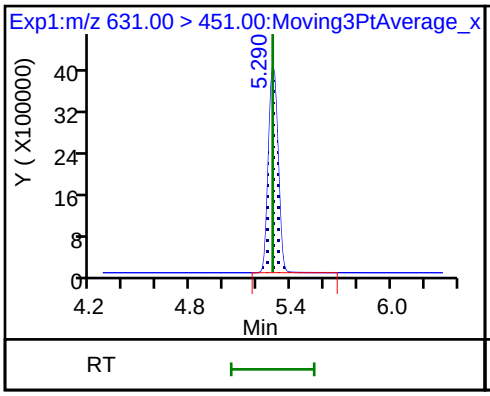
D 49 d-N-MeFOSA-M



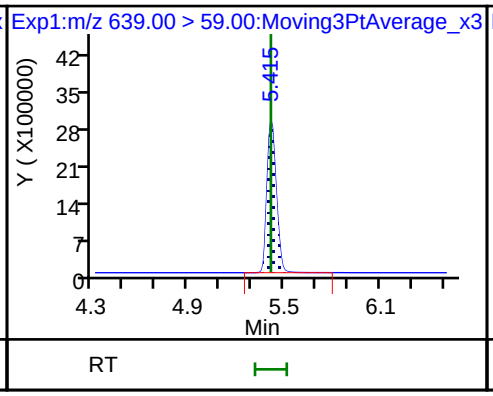
50 NMeFOSA



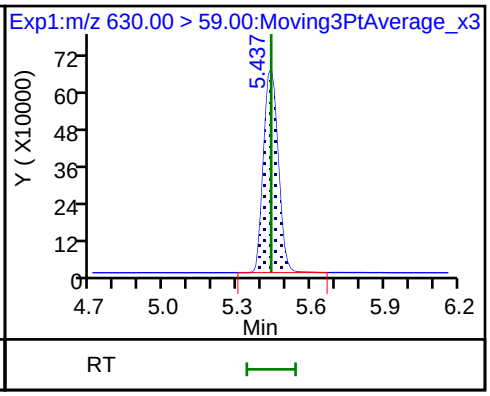
51 11ClFOS



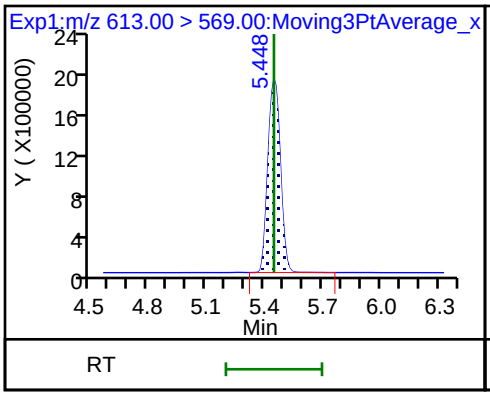
D 52 d9-N-EtFOSE-M



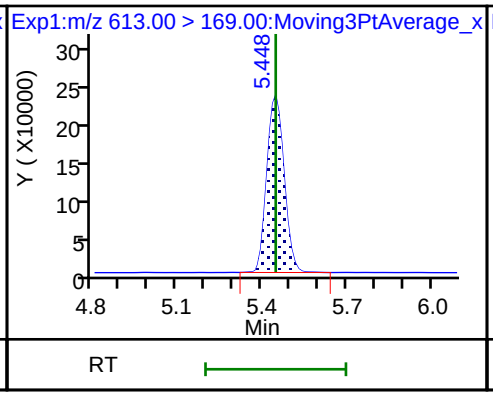
53 N-EtFOSE-M



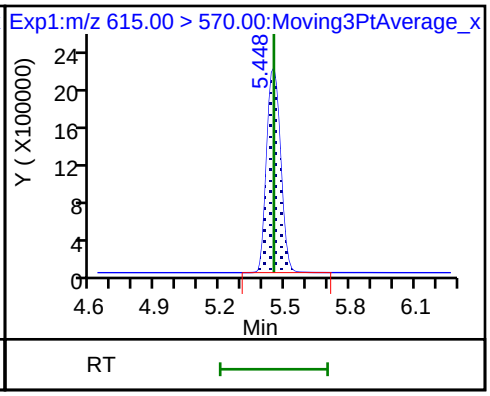
57 Perfluorododecanoic acid



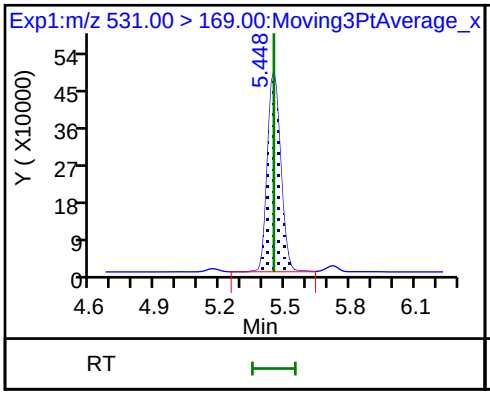
57 Perfluorododecanoic acid



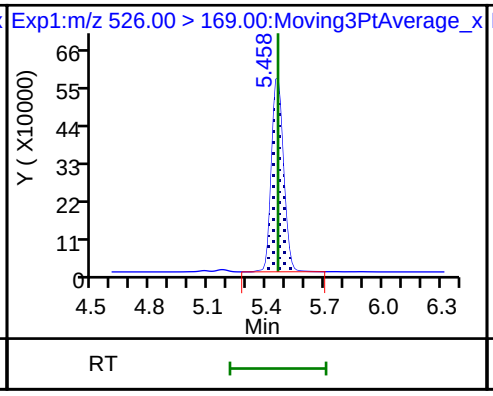
D 56 13C2 PFDoA



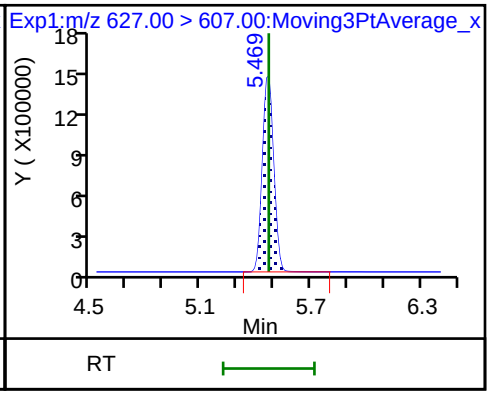
D 54 d-N-EtFOSA-M



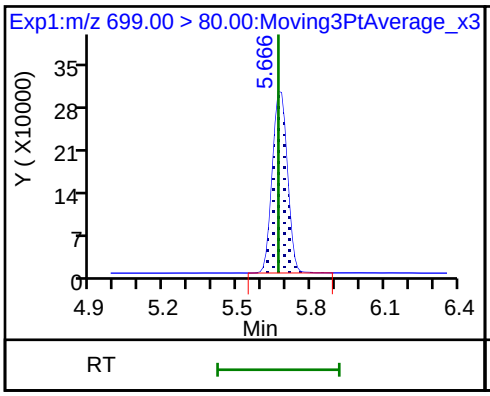
55 N-EtFOSA-M



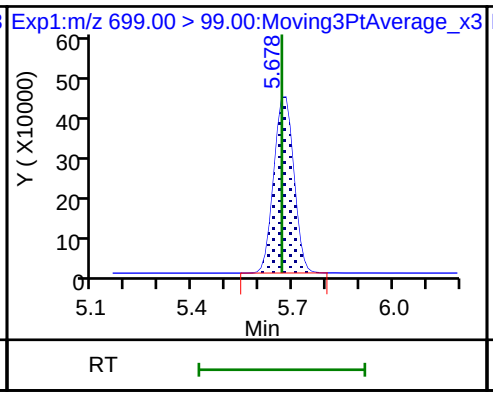
58 10:2 FTS



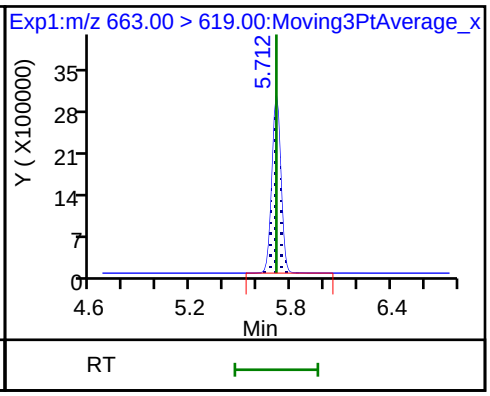
59 PFDoS



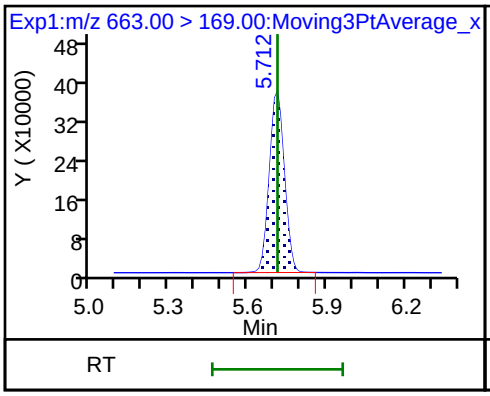
59 PFDoS



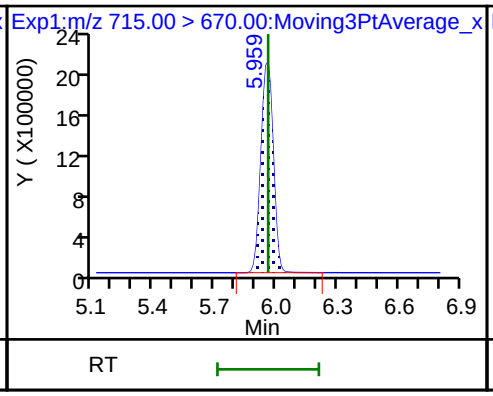
60 Perfluorotridecanoic acid



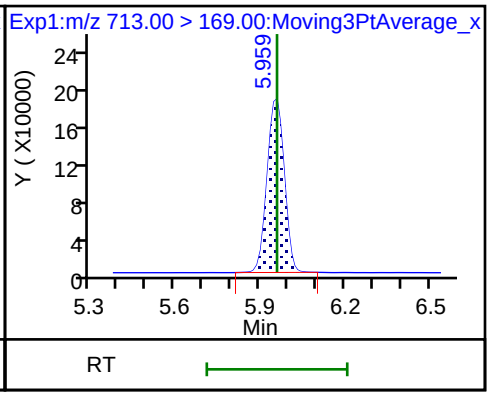
60 Perfluorotridecanoic acid



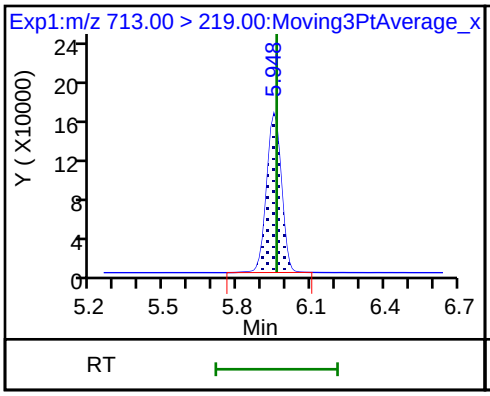
D 61 13C2 PFTeDA



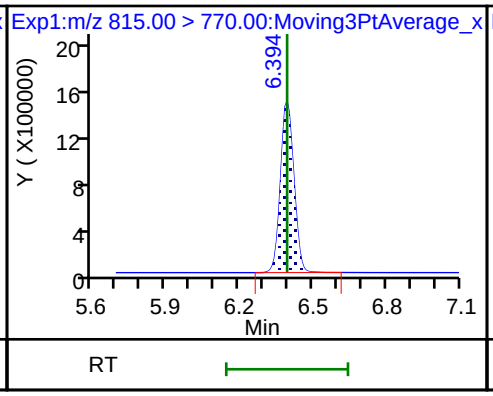
62 Perfluorotetradecanoic acid



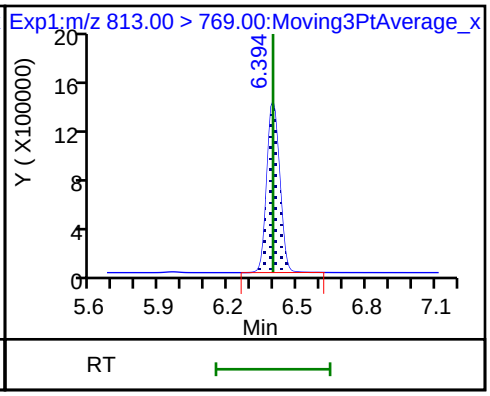
62 Perfluorotetradecanoic acid



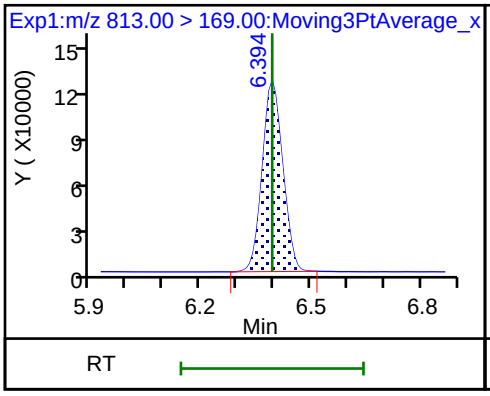
D 64 13C2 PFHxDA



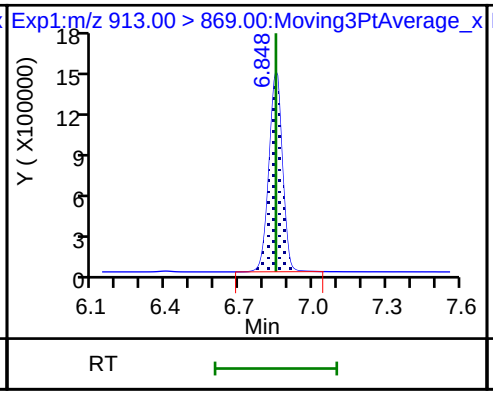
63 Perfluorohexadecanoic acid



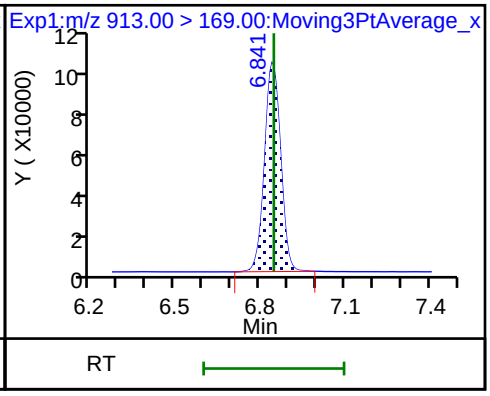
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

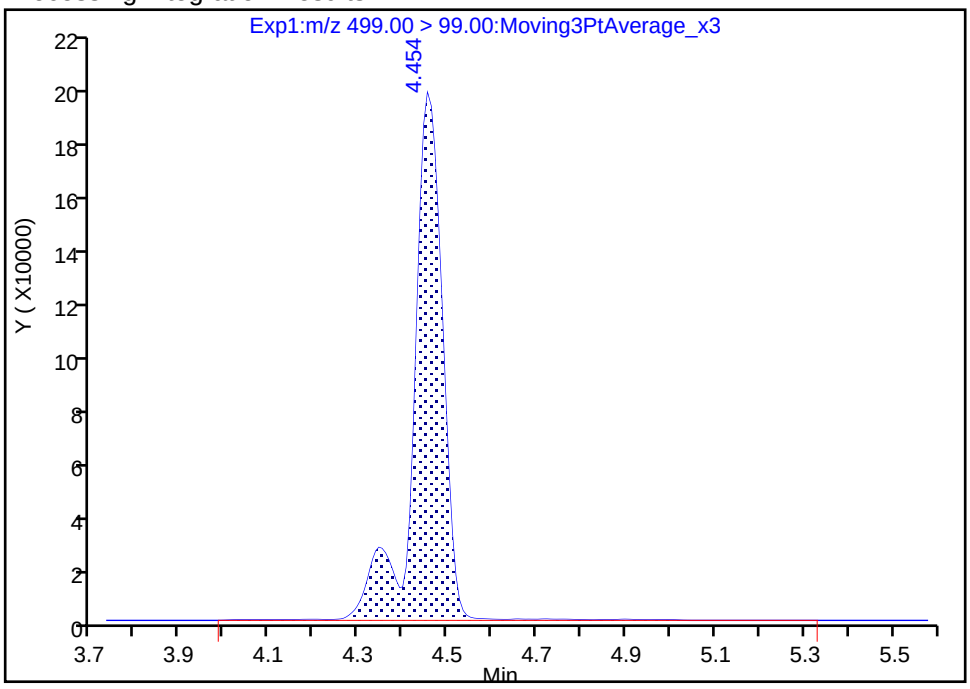
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d
Injection Date: 11-Sep-2020 12:32:41 Instrument ID: A18
Lims ID: CCV L5
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 53 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

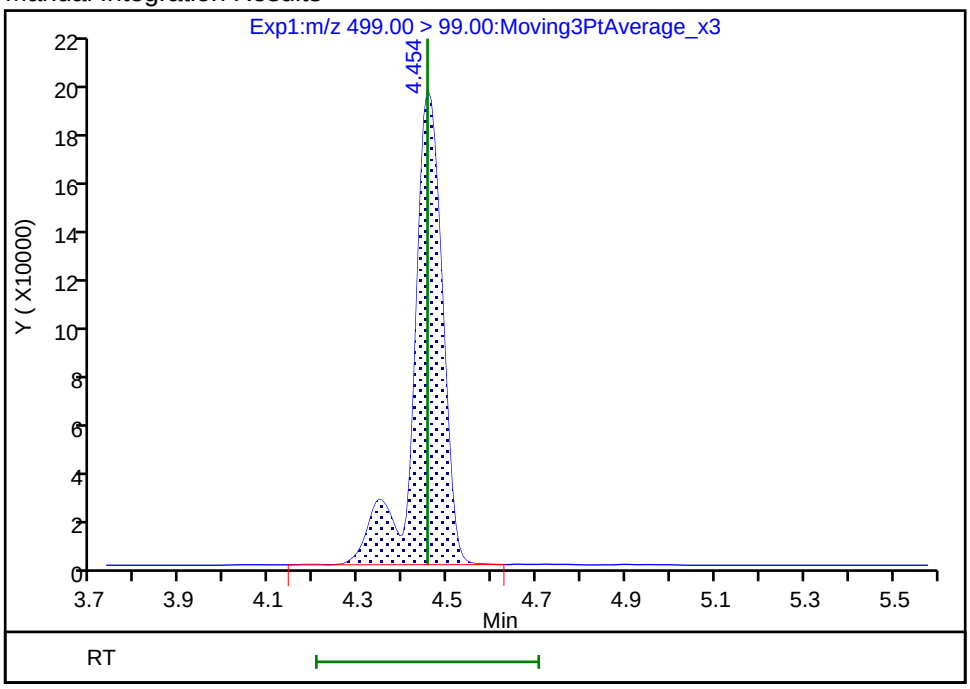
Processing Integration Results

RT: 4.45
Area: 875723
Amount: 2.412096
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 861653
Amount: 2.418465
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:08:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

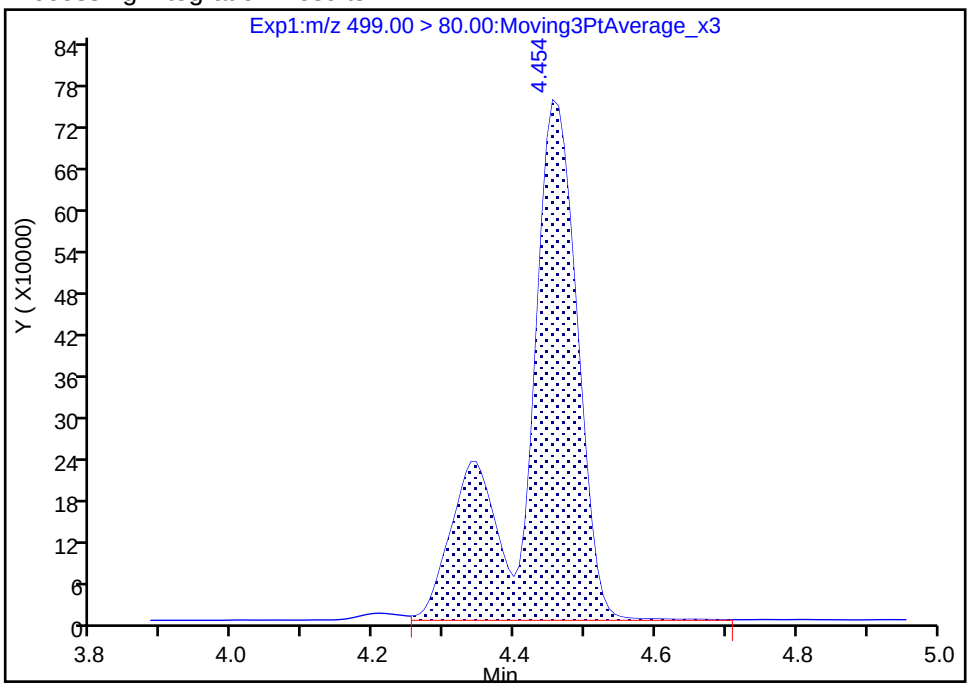
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_015.d				
Injection Date:	11-Sep-2020 12:32:41	Instrument ID:	A18		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	53	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00 mm)	Detector	EXP1		

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

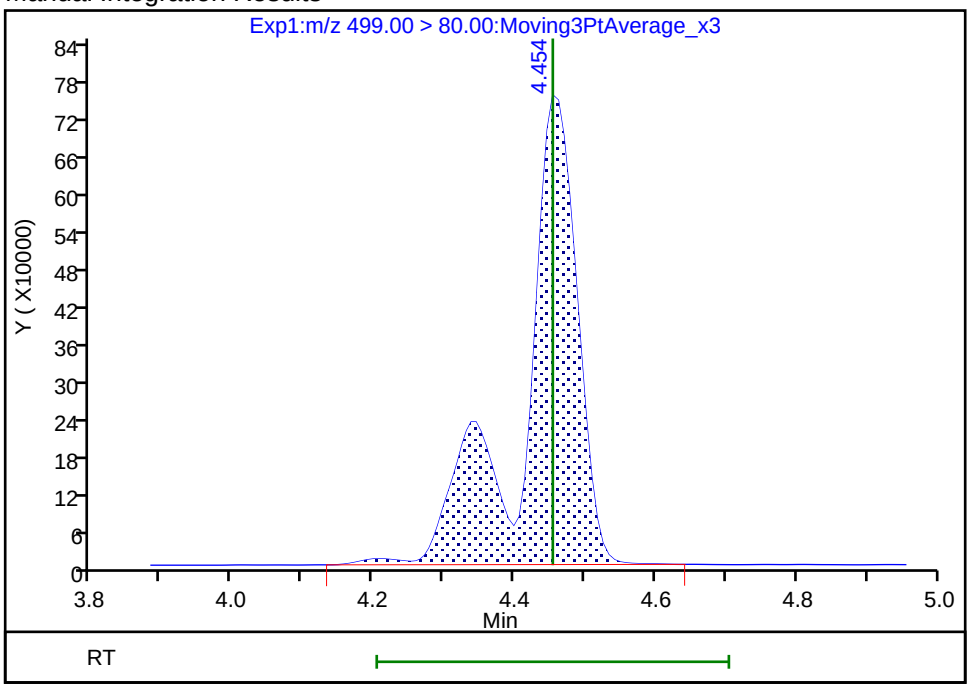
Processing Integration Results

RT: 4.45
Area: 4052287
Amount: 2.412096
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 4062986
Amount: 2.418465
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:08:11
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411377/10 Calibration Date: 09/11/2020 13:54

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_024.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8679	0.9293		1.07	1.00	7.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.997	1.089		1.09	1.00	9.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.010	1.095		0.958	0.884	8.4	50.0
4:2 FTS	AveID	2.273	2.597		1.07	0.934	14.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9638	1.003		1.04	1.00	4.1	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7925	0.8832		1.05	0.938	11.4	50.0
HFPO-DA (GenX)	AveID	0.9742	1.050		1.08	1.00	7.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.014	1.039		1.03	1.00	2.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.181	1.132		0.872	0.910	-4.2	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	9.582	10.53		1.04	0.942	9.9	50.0
6:2 FTS	AveID	2.299	2.365		0.975	0.948	2.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.118	1.209		1.03	0.952	8.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.020	1.082		1.06	1.00	6.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.035	1.115		1.00	0.928	7.7	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9590	1.047		1.09	1.00	9.2	40.0
F-53B Major	AveID	3.236	3.500		1.01	0.932	8.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9305	0.9787		1.05	1.00	5.2	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.9368	1.032		1.06	0.960	10.2	50.0
8:2 FTS	AveID	1.775	1.962		1.06	0.958	10.5	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9639	0.9081		0.942	1.00	-5.8	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7417	0.7728		1.04	1.00	4.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8350	0.9191		1.06	0.964	10.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.7253	0.7968		1.10	1.00	9.9	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6758	0.7325		1.08	1.00	8.4	40.0
NMeFOSE	AveID	1.080	1.298		1.20	1.00	20.2	40.0
NMeFOSA	AveID	0.9606	1.083		1.13	1.00	12.7	50.0
F-53B Minor	AveID	4.102	4.405		1.01	0.942	7.4	50.0
NEtFOSE	AveID	1.073	1.027		0.957	1.00	-4.3	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.023	0.8339		0.820	1.01	-18.4	40.0
10:2 FTS	AveID	2.014	2.453		1.17	0.964	21.8	50.0
NEtFOSA	AveID	1.058	1.173		1.11	1.00	10.8	40.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3329	0.3455		1.01	0.968	3.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411377/10 Calibration Date: 09/11/2020 13:54

Instrument ID: A18 Calib Start Date: 08/25/2020 16:43

GC Column: Gemini C18 3x50 ID: 3.00(mm) Calib End Date: 08/25/2020 17:37

Lab File ID: 2020.09.11_A18_PFC_A_024.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9409	1.046		1.11	1.00	11.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.0844	0.0908		1.08	1.00	7.6	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.053		1.18	1.00	17.6	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.6605	0.8518		1.29	1.00	29.0	50.0
13C4 PFBA	Ave	1.585	1.384		2.18	2.50	-12.7	50.0
13C5 PFPeA	Ave	1.233	1.042		2.11	2.50	-15.5	50.0
13C3 PFBS	Ave	0.9684	0.8956		2.15	2.33	-7.5	50.0
M2-4:2 FTS	Ave	0.2333	0.1848		1.85	2.34	-20.8	50.0
13C2 PFHxA	Ave	1.231	1.203		2.44	2.50	-2.2	50.0
13C3 HFPO-DA	Ave	0.2518	0.2243		2.23	2.50	-10.9	50.0
13C4 PFHpA	Ave	1.051	0.9802		2.33	2.50	-6.7	50.0
18O2 PFHxS	Ave	0.5117	0.5030		2.33	2.37	-1.7	50.0
M2-6:2 FTS	Ave	0.1958	0.1638		1.99	2.38	-16.3	50.0
13C4 PFOA	Ave	1.001	0.9568		2.39	2.50	-4.4	50.0
13C4 PFOS	Ave	0.3465	0.3237		2.23	2.39	-6.6	50.0
13C5 PFNA	Ave	0.8063	0.8288		2.57	2.50	2.8	50.0
13C8 FOSA	Ave	0.5590	0.5092		2.28	2.50	-8.9	50.0
13C2 PFDA	Ave	0.7829	0.7730		2.47	2.50	-1.3	50.0
M2-8:2 FTS	Ave	0.2823	0.2347		1.99	2.40	-16.9	50.0
d3-NMeFOSAA	Ave	0.5255	0.4479		2.13	2.50	-14.8	50.0
13C2 PFUnA	Ave	0.7758	0.8699		2.80	2.50	12.1	50.0
d5-NEtFOSAA	Ave	0.5556	0.4852		2.18	2.50	-12.7	50.0
d7-N-MeFOSE-M	Ave	0.1384	0.1482		13.4	12.5	7.1	50.0
d-N-MeFOSA-M	Ave	0.1965	0.1837		2.34	2.50	-6.5	50.0
d9-N-EtFOSE-M	Ave	0.1700	0.2105		15.5	12.5	23.8	50.0
13C2 PFDoA	Ave	0.7650	0.9376		3.06	2.50	22.6	50.0
d-N-EtFOSA-M	Ave	0.2011	0.1831		2.28	2.50	-8.9	50.0
13C2 PFTeDA	Ave	0.6311	0.6721		2.66	2.50	6.5	50.0
13C2 PFHxDA	Ave	0.4618	0.4254		2.30	2.50	-7.9	50.0
13C8 PFOA	Ave	0.6756	0.6983		2.53	2.45	3.4	50.0
13C8 PFOS	Ave	0.1082	0.0996		2.20	2.39	-7.9	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_024.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Sep-2020 13:54:54 ALS Bottle#: 52 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18
Sublist: chrom-PFAS_A18V2*sub1

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 10:12:34 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 10:12:34
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.557	2.557	0.0	0.625	16145912	2.18		87.3	6380	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.557	2.557	0.0	1.000	6001889	1.07		107	122	
D 4 13C5 PFPeA										
267.90 > 223.00	2.909	2.909	0.0	0.711	12153027	2.11		84.5	3446	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.909	2.909	0.0	1.000	5291496	1.09		109	121	
D 9 13C3 PFBS										
301.90 > 80.00	2.940	2.940	0.0	0.719	9718618	2.15		92.5	4607	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.950	2.950	0.0	1.004	4045396	0.9584	Target=2.30	108	944	
298.90 > 99.00	2.950	2.950	0.0	1.004	1732299		2.34(1.15-3.45)		365	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.238	3.238	0.0	0.792	2014306	1.85		79.2	824	
8 4:2 FTS										
327.00 > 307.00	3.238	3.238	0.0	1.000	2092183	1.07		114	6709	
D 11 13C2 PFHxA										
315.00 > 270.00	3.288	3.288	0.0	0.804	14039857	2.44		97.8	5454	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.288	3.288	0.0	1.000	5634444	1.04	Target=13.78	104	192	
313.00 > 119.00	3.288	3.288	0.0	1.000	417428		13.50(6.89-20.66)		189	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.309	3.309	0.0	1.126	3463112	1.05	Target=3.02	111	871	
349.00 > 99.00	3.298	3.309	-0.011	1.122	1153909		3.00(1.51-4.52)		367	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.415	3.415	0.0	0.835	2617710	2.23		89.1	3689	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 HPFO-DA										
285.00 > 169.00	3.415	3.415	0.0	1.000	1098976	1.08		108	2380	
D 17 18O2 PFHxS										
403.00 > 84.00	3.701	3.701	0.0	0.905	5551925	2.32		98.3	4315	
D 18 13C4 PFHpA										
367.00 > 322.00	3.691	3.691	0.0	0.902	11437433	2.33		93.3	4820	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.691	3.691	0.0	1.000	4752271	1.02	Target=3.84	102	301	
363.00 > 169.00	3.691	3.691	0.0	1.000	1238799		3.84(1.92-5.76)		581	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.701	3.701	0.0	1.000	2418312	0.8719	Target=3.50	95.8	1042	
399.00 > 99.00	3.691	3.701	-0.010	0.997	712546		3.39(1.75-5.25)		272	
19 DONA										
377.00 > 251.00	3.740	3.740	0.0	0.841	14987602	1.04	Target=2.42	110	6656	
377.00 > 85.00	3.740	3.740	0.0	0.841	6096803		2.46(1.21-3.63)		2202	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.066	4.066	0.0	0.994	1816094	1.99		83.7	1054	
21 6:2 FTS										
427.00 > 407.00	4.066	4.066	0.0	1.000	1714586	0.9754		103	1790	
$ 26 13C8 PFOA										
421.00 > 376.00	4.082	4.082	0.0	0.998	7977042	2.53		103	4738	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.082	4.082	0.0	0.918	1738719	1.03	Target=4.40	108	730	
449.00 > 99.00	4.082	4.082	0.0	0.918	400794		4.34(2.20-6.60)		256	
D 25 13C4 PFOA										
417.00 > 372.00	4.082	4.082	0.0	0.998	11164737	2.39		95.6	5178	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.090	4.090	0.0	1.002	4837857	1.06	Target=2.94	106	469	
413.00 > 169.00	4.090	4.090	0.0	1.002	1723546		2.81(1.47-4.41)		860	
* 23 13C2 PFOA										
415.00 > 370.00	4.090	4.090	0.0		11668243	2.50			4919	
D 27 13C4 PFOS										
503.00 > 80.00	4.446	4.446	0.0	1.087	3611273	2.23		93.4	1577	
$ 28 13C8 PFOS										
507.00 > 99.00	4.446	4.446	0.0	1.087	1111436	2.20		92.1	2479	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.446	4.446	0.0	1.000	1563599	1.00	Target=4.53	108	515	M
499.00 > 99.00	4.446	4.446	0.0	1.000	330130		4.74(2.26-6.79)		259	M
D 30 13C5 PFNA										
468.00 > 423.00	4.462	4.462	0.0	1.091	9670822	2.57		103	5018	
31 Perfluorononanoic acid										
463.00 > 419.00	4.462	4.462	0.0	1.000	4057649	1.09	Target=8.97	109	493	
463.00 > 169.00	4.462	4.462	0.0	1.000	506114		8.02(4.48-13.45)		605	
32 9ClFOS										
531.00 > 351.00	4.652	4.652	0.0	1.046	4929470	1.01		108	6879	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.786	0.0	1.170	5941806	2.28		91.1	4672	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.000	2326055	1.05		105	2963	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.794	4.794	0.0	1.078	1497011	1.06	Target=2.85	110	1034	
549.00 > 99.00	4.794	4.794	0.0	1.078	514538		2.91(1.43-4.28)		579	
D 39 13C2 PFDA										
515.00 > 470.00	4.820	4.820	0.0	1.178	9019684	2.47		98.7	7693	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.820	4.820	0.0	1.178	2623928	1.99		83.1	1522	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.820	4.820	0.0	1.000	3276238	0.9421	Target=10.16	94.2	566	
513.00 > 169.00	4.820	4.820	0.0	1.000	328981		9.96(5.08-15.24)		159	
36 8:2 FTS										
527.00 > 507.00	4.820	4.820	0.0	1.000	2059284	1.06		111	4462	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.989	4.989	0.0	1.220	5226700	2.13		85.2	2330	
41 NMeFOSAA										
570.00 > 419.00	4.989	4.989	0.0	1.000	1615692	1.04		104	1201	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.111	5.111	0.0	1.150	1338751	1.06	Target=2.77	110	1074	
599.00 > 99.00	5.111	5.111	0.0	1.150	465161		2.88(1.38-4.15)		754	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.139	5.139	0.0	1.000	3238508	1.10	Target=8.43	110	911	
563.00 > 169.00	5.148	5.139	0.009	1.002	359483		9.01(4.22-12.65)		512	
D 43 13C2 PFUnA										
565.00 > 520.00	5.139	5.139	0.0	1.256	10150455	2.80		112	5256	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.148	5.148	0.0	1.259	5661369	2.18		87.3	3342	
46 NEtFOSA										
584.00 > 419.00	5.157	5.157	0.0	1.002	1658879	1.08		108	1872	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.248	5.248	0.0	1.283	8648913	13.4		107	2349	
48 N-MeFOSE-M										
616.00 > 59.00	5.258	5.258	0.0	1.002	897980	1.20		120	607	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.269	5.269	0.0	1.288	2143162	2.34		93.5	52.6	
50 NMeFOSA										
512.00 > 169.00	5.269	5.269	0.0	1.000	928092	1.13		113	505	
51 11ClFOS										
631.00 > 451.00	5.279	5.279	0.0	1.187	6270119	1.01		107	4937	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.415	5.415	0.0	1.324	12280213	15.5		124	3646	
53 N-EtFOSE-M										
630.00 > 59.00	5.437	5.437	0.0	1.004	1008864	0.9572		95.7	852	
D 56 13C2 PFDoA										
615.00 > 570.00	5.437	5.437	0.0	1.329	10939888	3.06		123	9303	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
57 Perfluorododecanoic acid										
613.00 > 569.00	5.437	5.437	0.0	1.000	3671109	0.8205	Target=9.12	81.6	882	
613.00 > 169.00	5.437	5.437	0.0	1.000	562002		6.53(4.56-13.69)		1207	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.448	5.448	0.0	1.332	2136726	2.28		91.1	303	
55 N-EtFOSA-M										
526.00 > 169.00	5.448	5.448	0.0	1.000	1002207	1.11		111	385	
58 10:2 FTS										
627.00 > 607.00	5.448	5.448	0.0	1.130	2591246	1.17		122	5822	
59 PFDoS										
699.00 > 80.00	5.667	5.667	0.0	1.274	505323	1.00	Target=0.72	104	531	
699.00 > 99.00	5.667	5.667	0.0	1.274	696791		0.73(0.36-1.07)		1472	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.701	5.701	0.0	1.049	4576201	1.11	Target=6.78	111	1760	
663.00 > 169.00	5.701	5.701	0.0	1.049	542174		8.44(3.39-10.17)		885	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.936	5.936	0.0	1.451	7842120	2.66		106	7027	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.948	5.948	0.0	1.002	285221	1.08	Target=0.85	108	1073	
713.00 > 219.00	5.936	5.948	-0.012	1.000	295186		0.97(0.43-1.28)		982	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.377	6.377	0.0	1.559	4963534	2.30		92.1	5245	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.385	6.385	0.0	1.001	2089790	1.18	Target=10.21	118	1181	
813.00 > 169.00	6.385	6.385	0.0	1.001	213668		9.78(5.11-15.32)		1327	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.822	6.822	0.0	1.070	1691182	1.29	Target=12.45	129	1244	
913.00 > 169.00	6.822	6.822	0.0	1.070	147079		11.50(6.22-18.67)		1329	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 14-Sep-2020 10:12:34 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_024.d

Injection Date: 11-Sep-2020 13:54:54 Instrument ID: A18

Lims ID: CCV L4

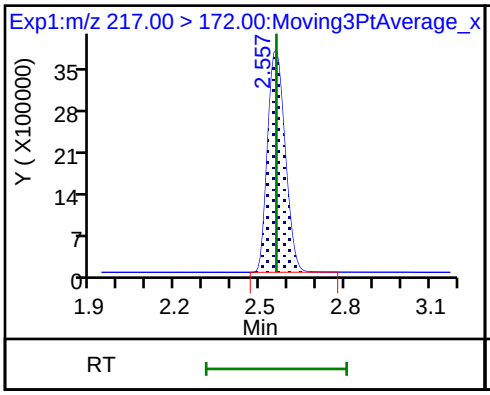
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 10

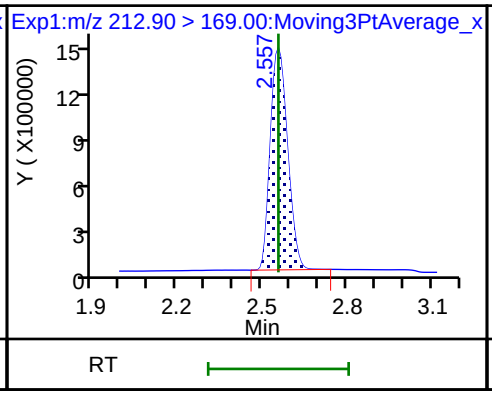
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

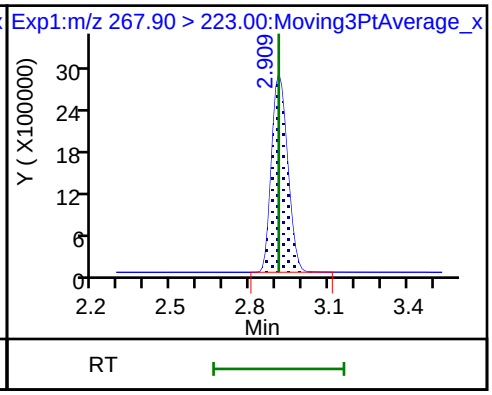
D 1 13C4 PFBA



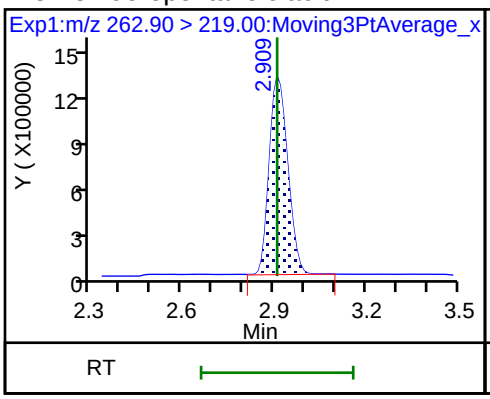
2 Perfluorobutanoic acid



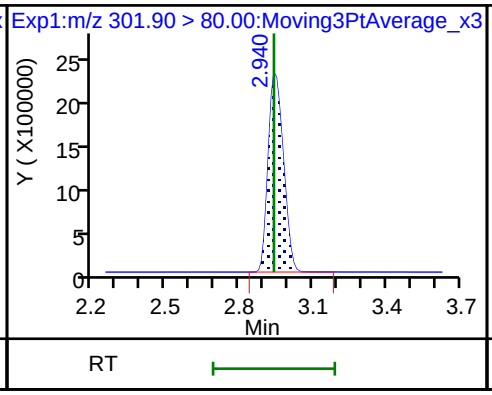
D 4 13C5 PFPeA



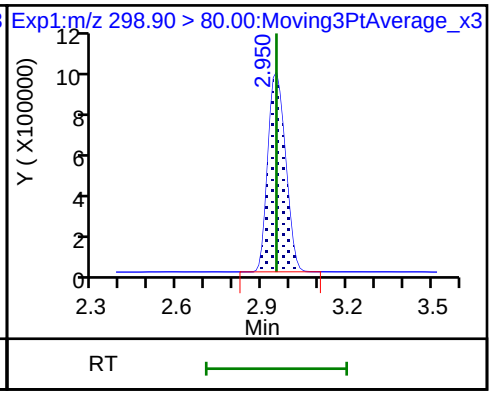
5 Perfluoropentanoic acid



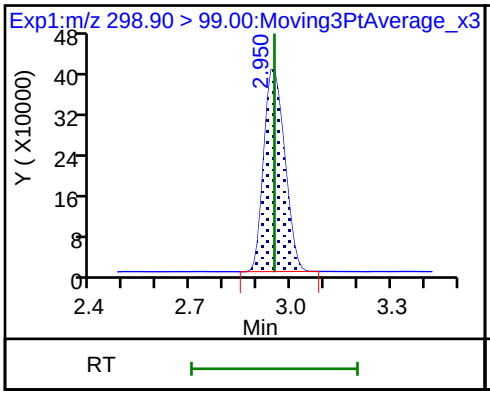
D 9 13C3 PFBS



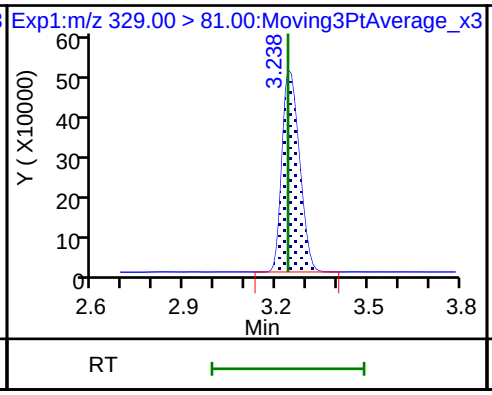
6 Perfluorobutanesulfonic acid



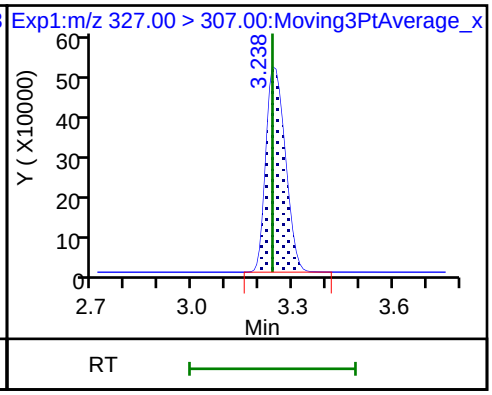
6 Perfluorobutanesulfonic acid



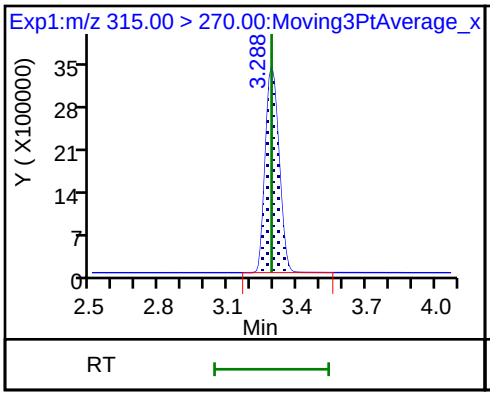
D 7 M2-4:2 FTS



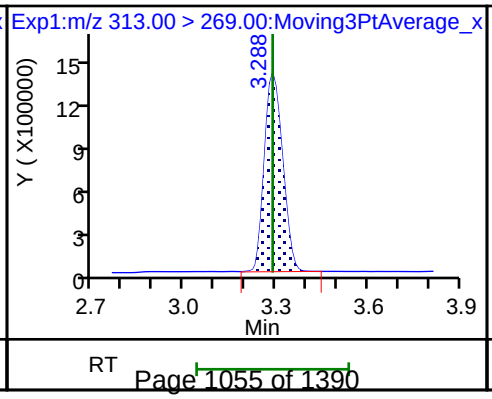
8 4:2 FTS



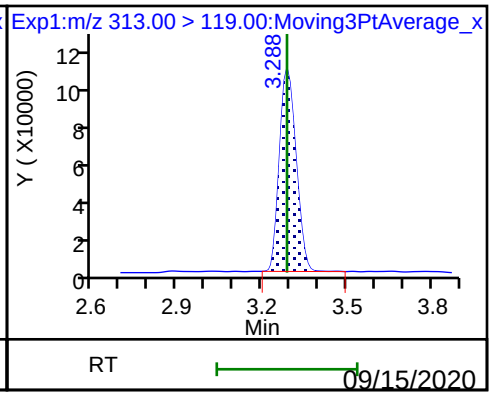
D 11 13C2 PFHxA



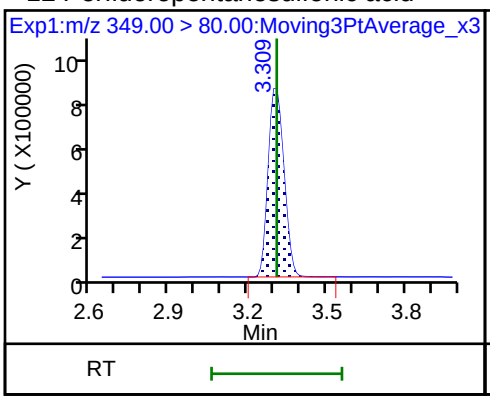
10 Perfluorohexanoic acid



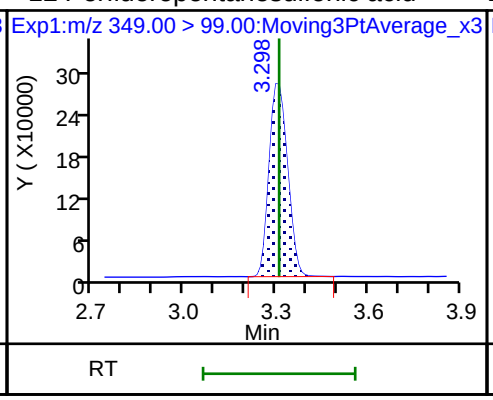
10 Perfluorohexanoic acid



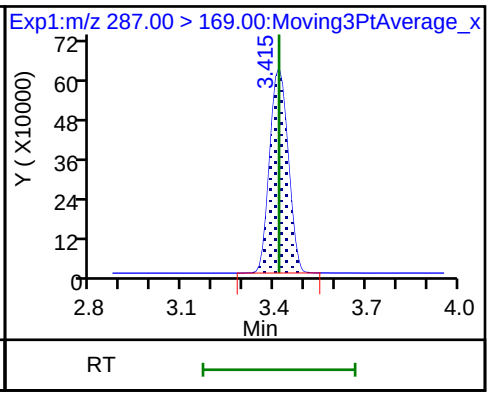
12 Perfluoropentanesulfonic acid



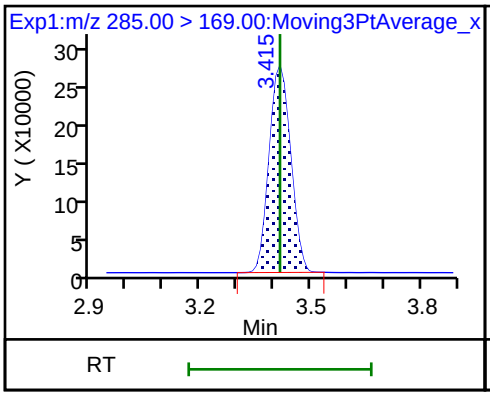
12 Perfluoropentanesulfonic acid



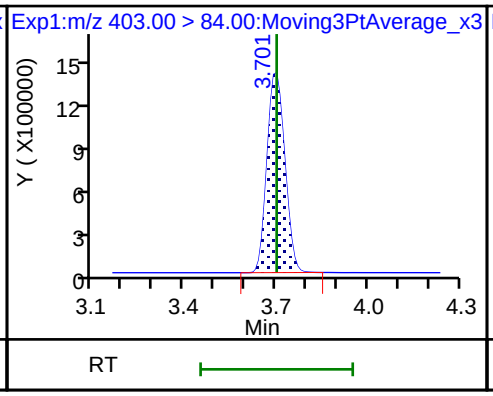
D 14 13C3 HFPO-DA



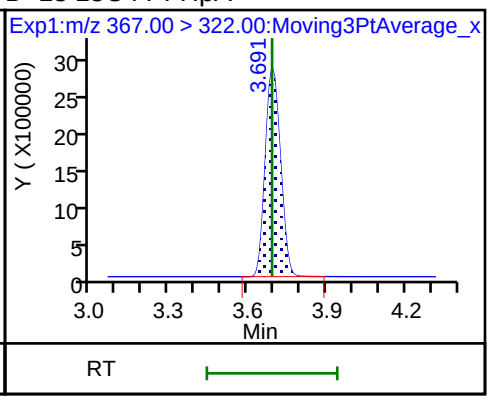
13 HPFO-DA



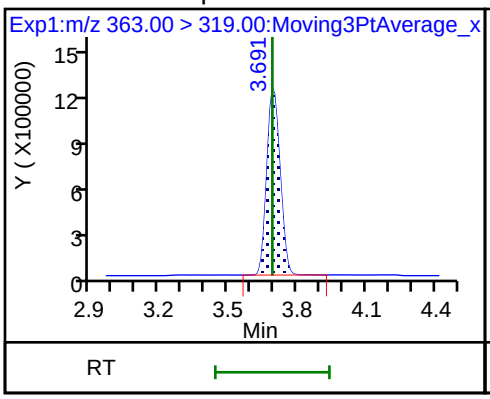
D 17 18O2 PFHxS



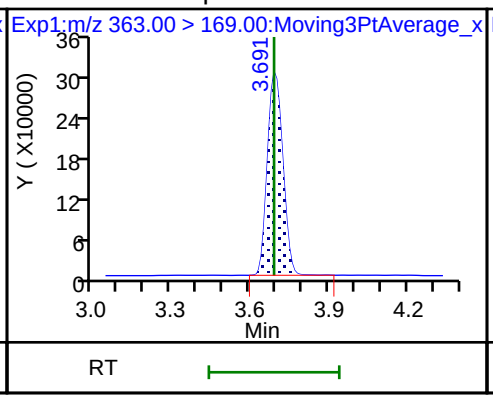
D 18 13C4 PFHpA



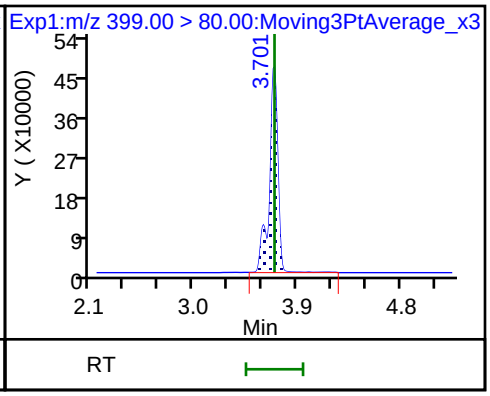
16 Perfluoroheptanoic acid



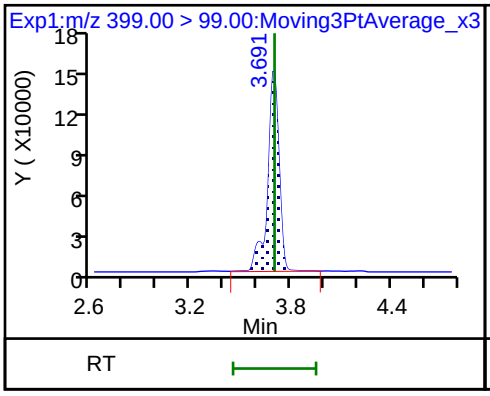
16 Perfluoroheptanoic acid



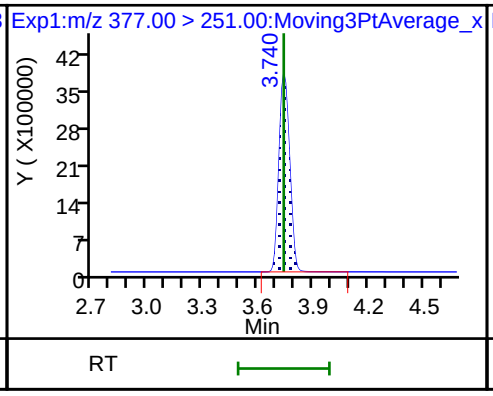
15 Perfluorohexanesulfonic acid



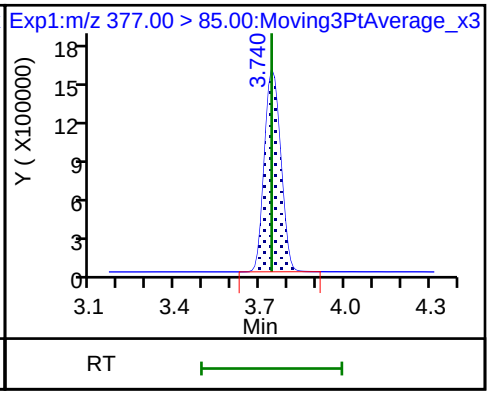
15 Perfluorohexanesulfonic acid



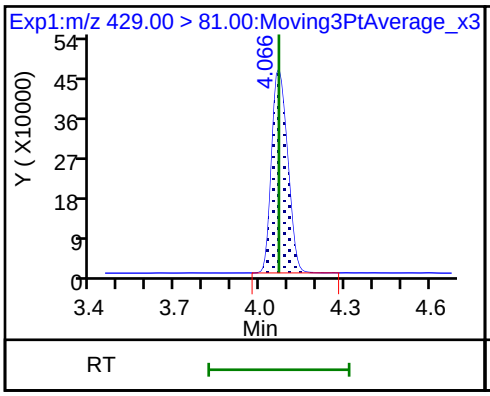
19 DONA



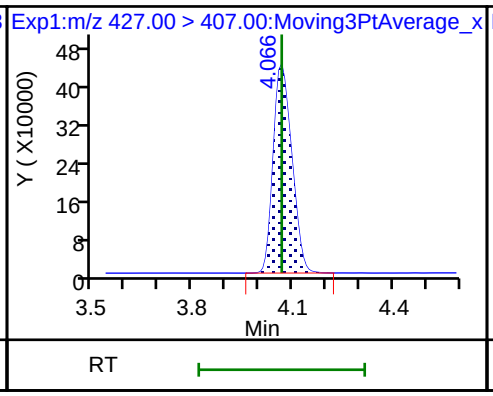
19 DONA



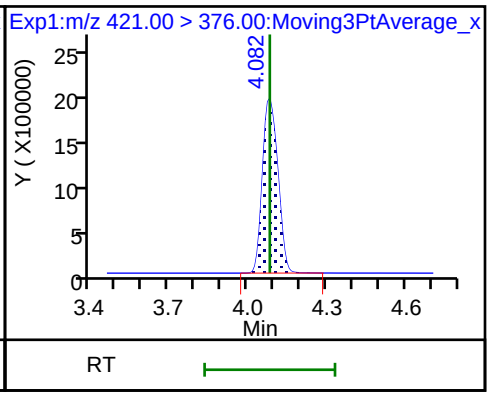
D 20 M2-6:2 FTS



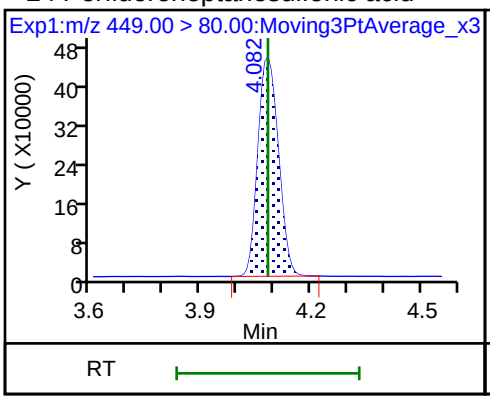
21 6:2 FTS



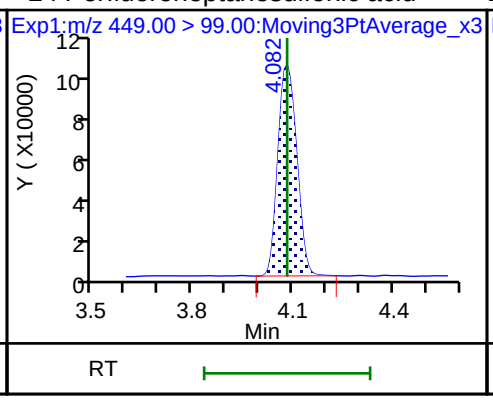
$ 26 13C8 PFOA



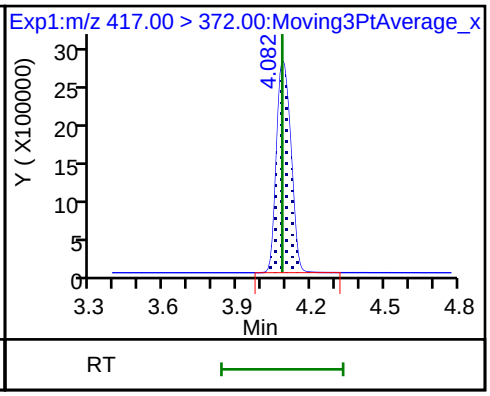
24 Perfluoroheptanesulfonic acid



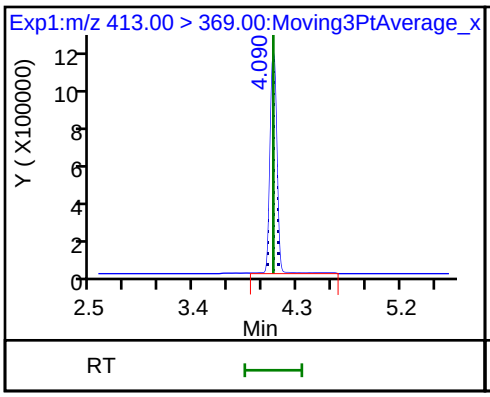
24 Perfluoroheptanesulfonic acid



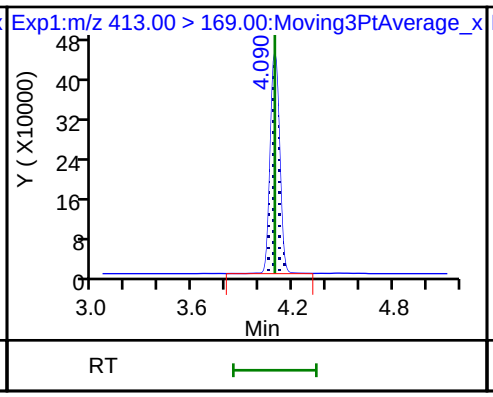
D 25 13C4 PFOA



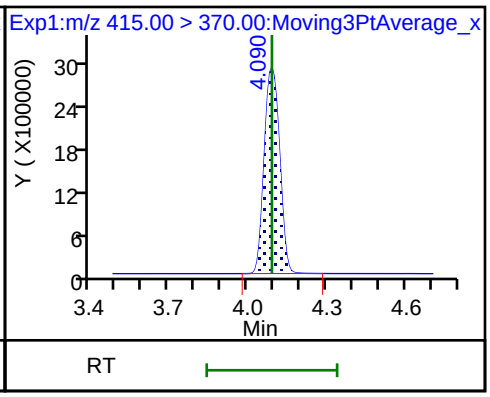
22 Perfluorooctanoic acid



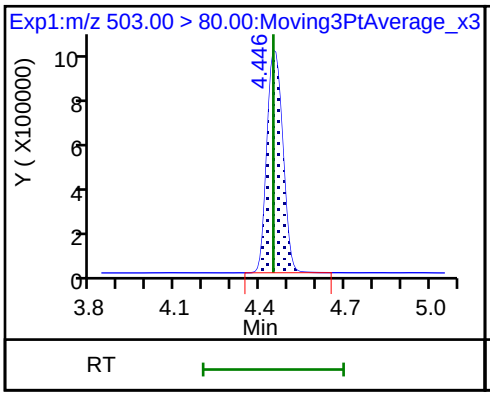
22 Perfluorooctanoic acid



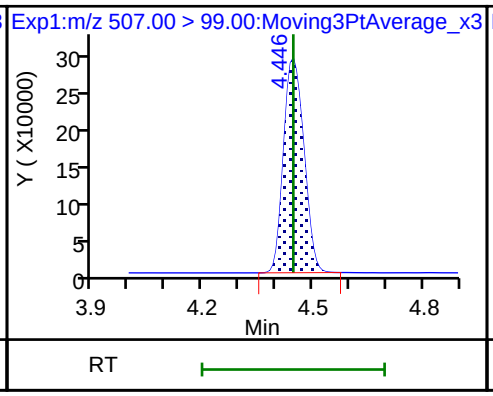
* 23 13C2 PFOA



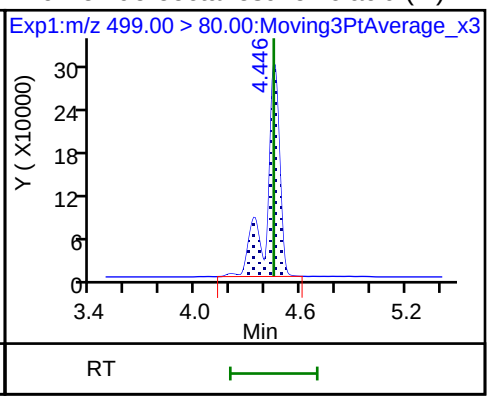
D 27 13C4 PFOS



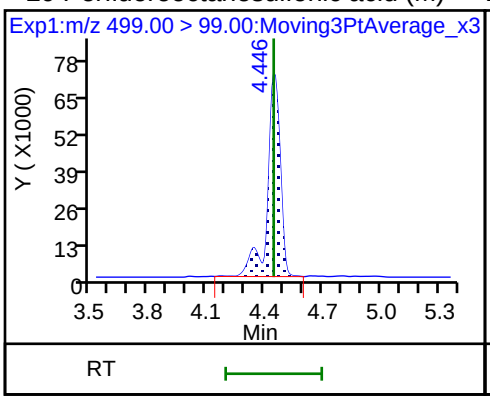
$ 28 13C8 PFOS



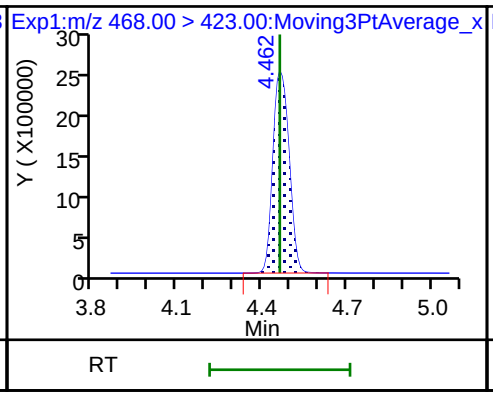
29 Perfluorooctanesulfonic acid (M)



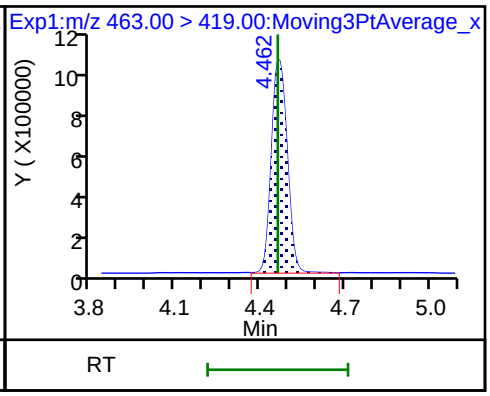
29 Perfluorooctanesulfonic acid (M)



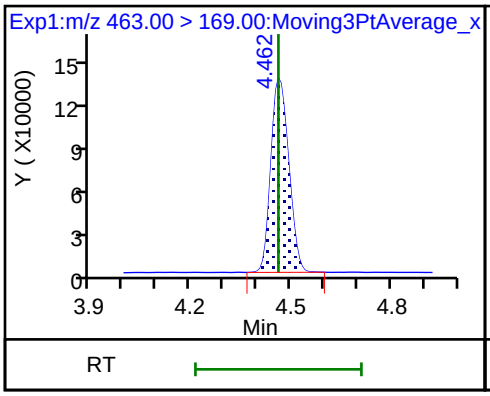
D 30 13C5 PFNA



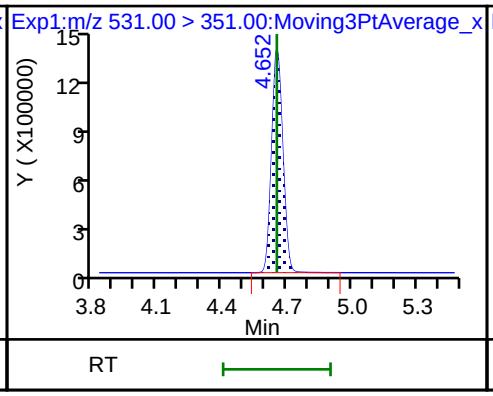
31 Perfluorononanoic acid



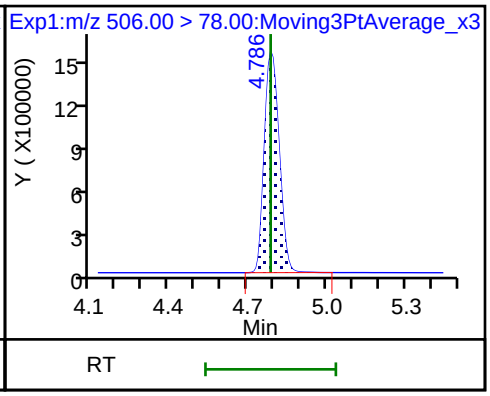
31 Perfluorononanoic acid



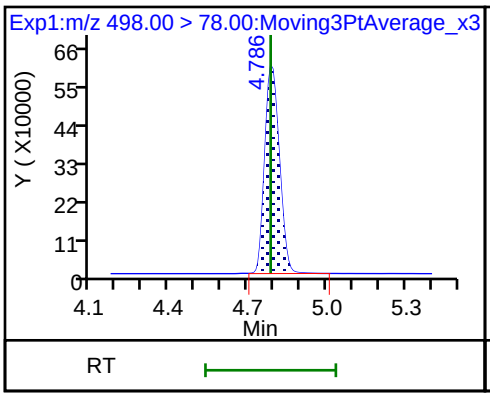
32 9ClFOS



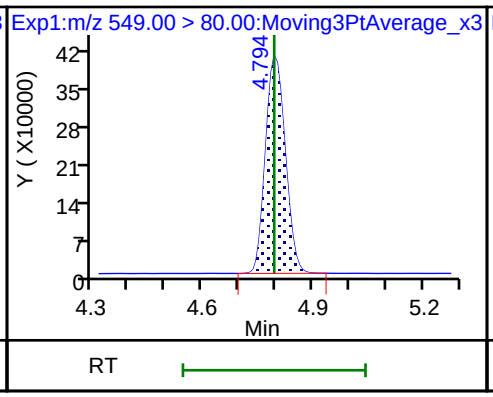
D 33 13C8 FOSA



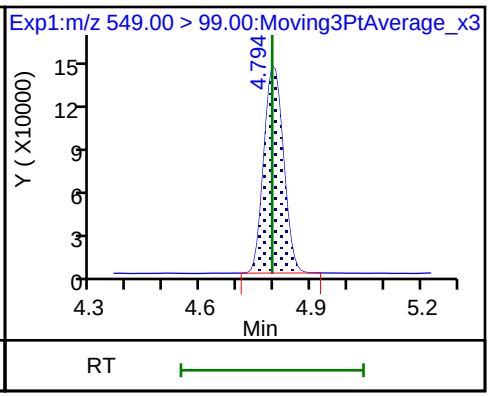
34 Perfluorooctanesulfonamide



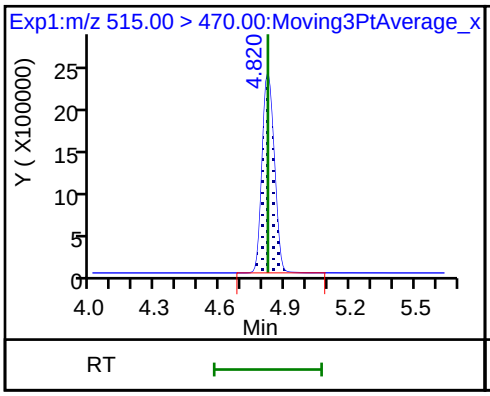
35 Perfluorononanesulfonic acid



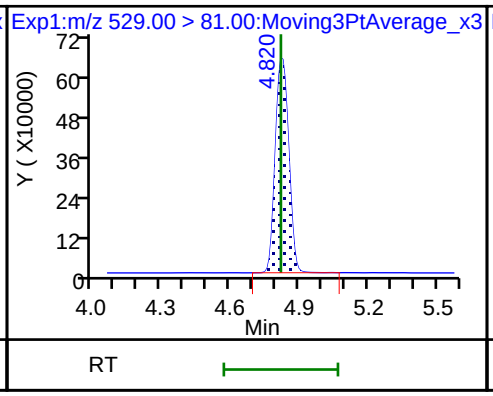
35 Perfluorononanesulfonic acid



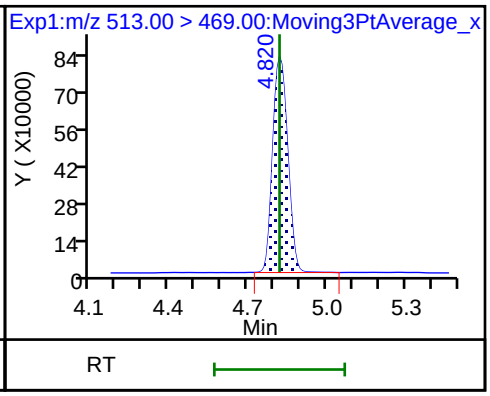
D 39 13C2 PFDA



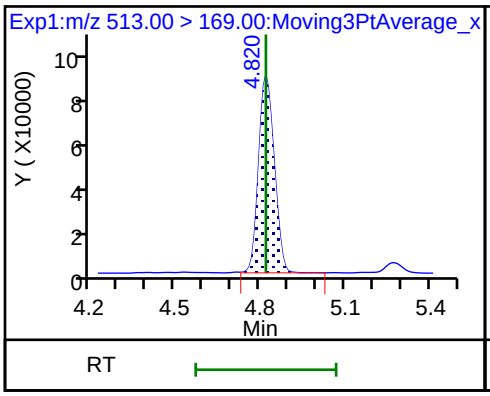
D 38 M2-8:2 FTS



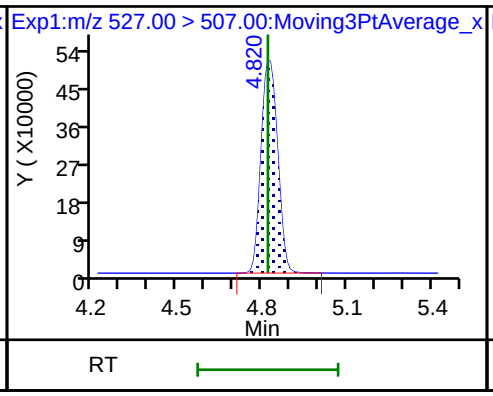
37 Perfluorodecanoic acid



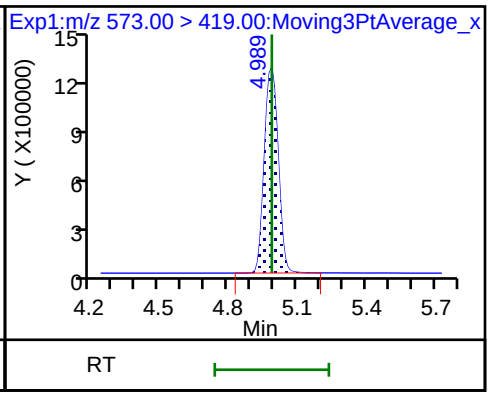
37 Perfluorodecanoic acid



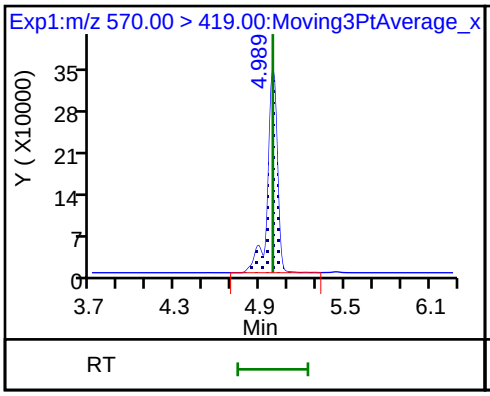
36 8:2 FTS



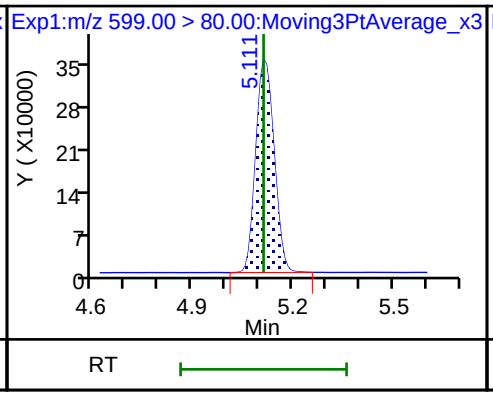
D 40 d3-NMeFOSAA



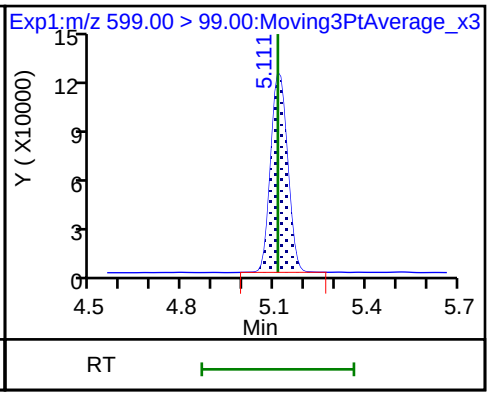
41 NMeFOSAA



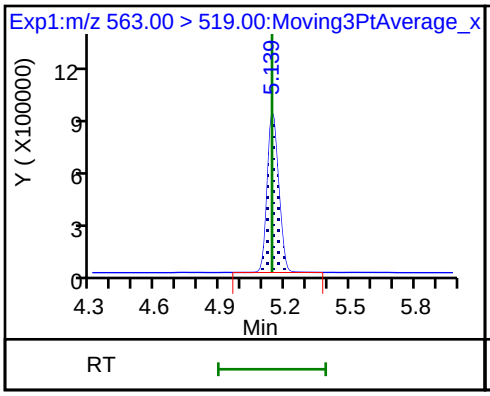
42 Perfluorodecanesulfonic acid



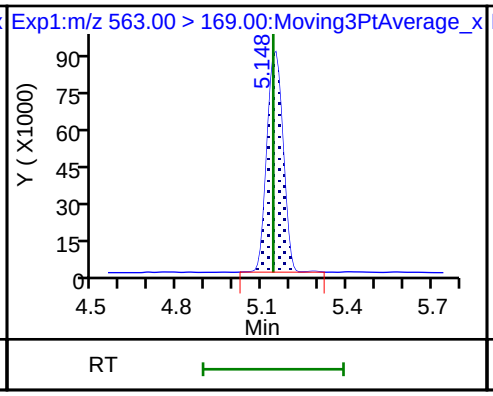
42 Perfluorodecanesulfonic acid



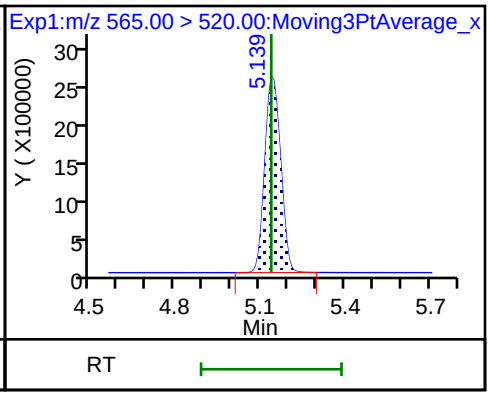
45 Perfluoroundecanoic acid



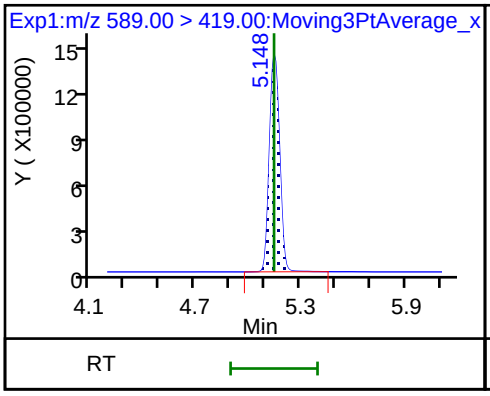
45 Perfluoroundecanoic acid



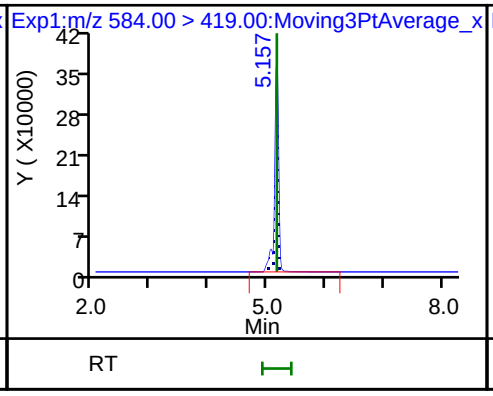
D 43 13C2 PFUnA



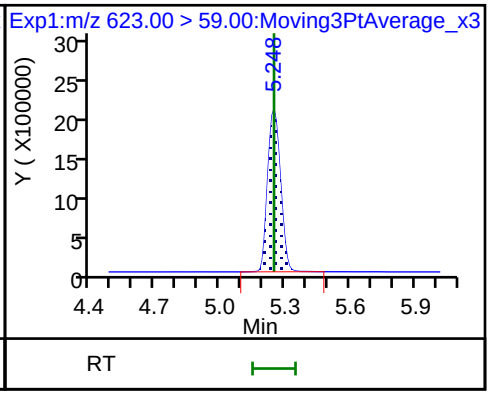
D 44 d5-NEtFOSAA



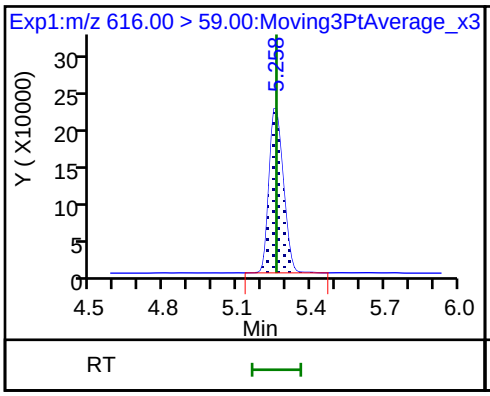
46 NEtFOSA



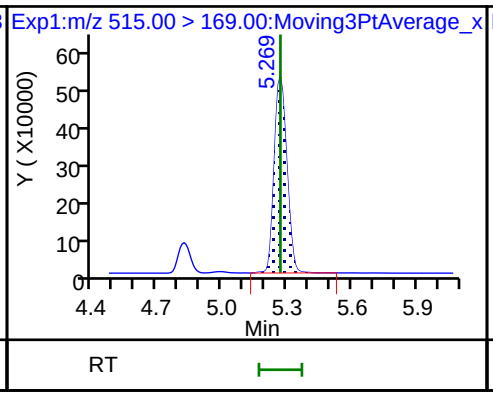
D 47 d7-N-MeFOSE-M



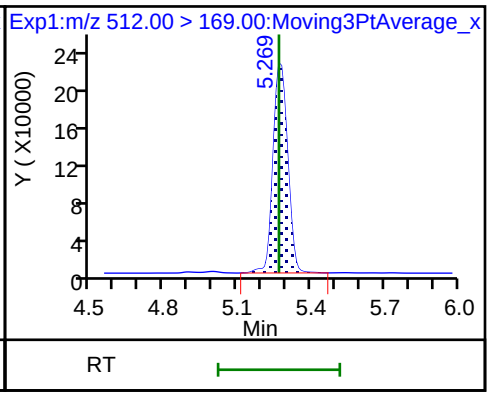
48 N-MeFOSE-M



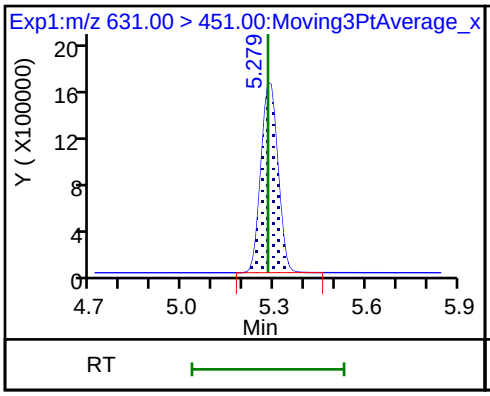
D 49 d-N-MeFOSA-M



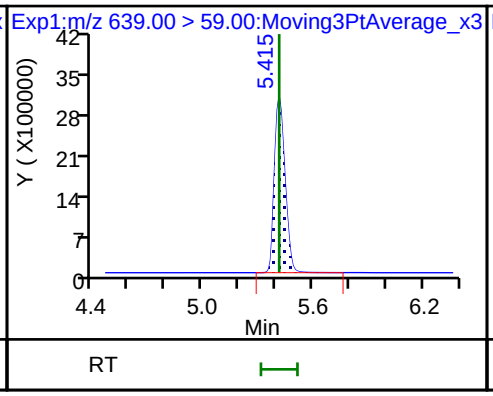
50 NMeFOSA



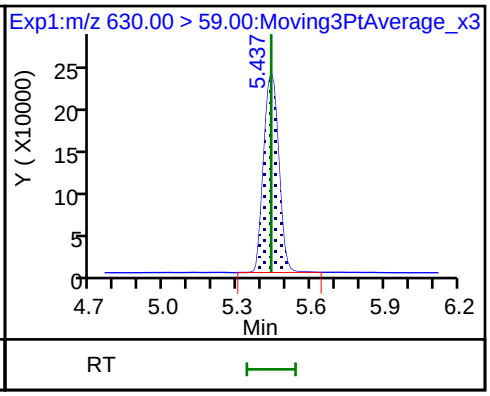
51 11ClFOS



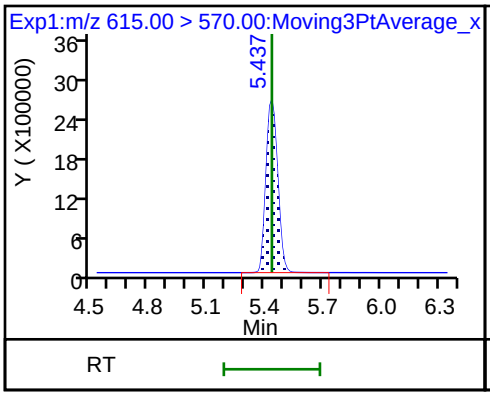
D 52 d9-N-EtFOSE-M



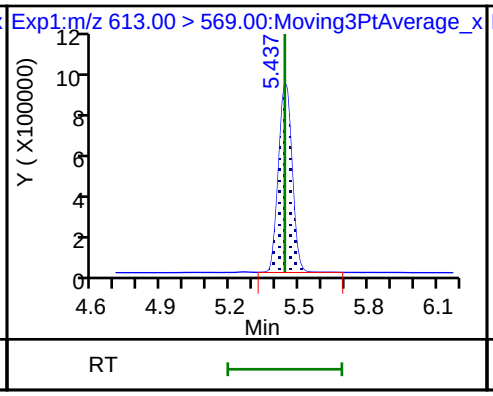
53 N-EtFOSE-M



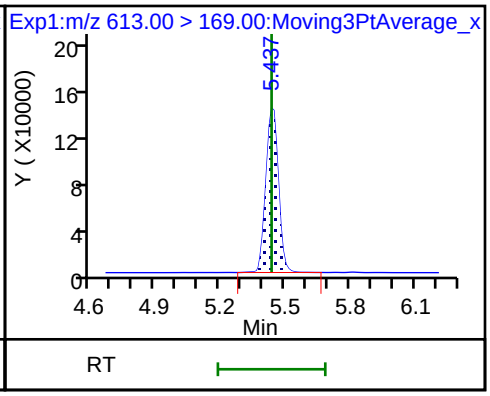
D 56 13C2 PFDoA



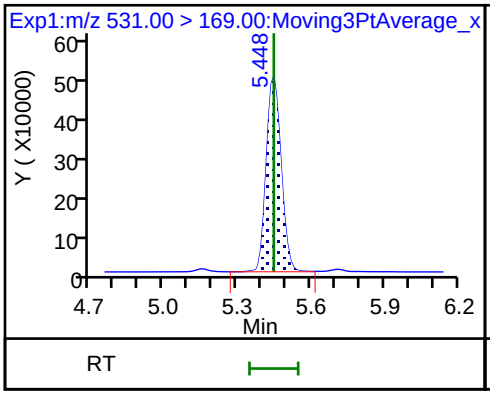
57 Perfluorododecanoic acid



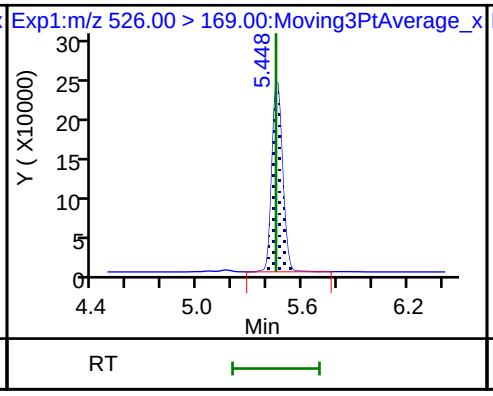
57 Perfluorododecanoic acid



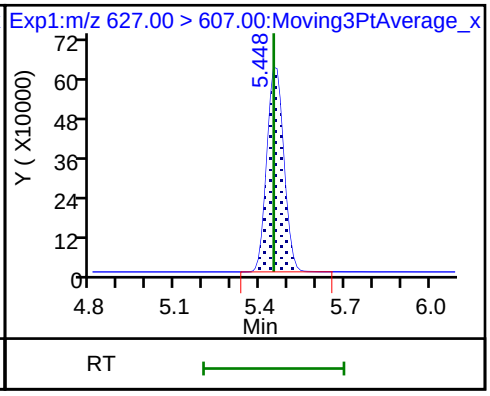
D 54 d-N-EtFOSA-M



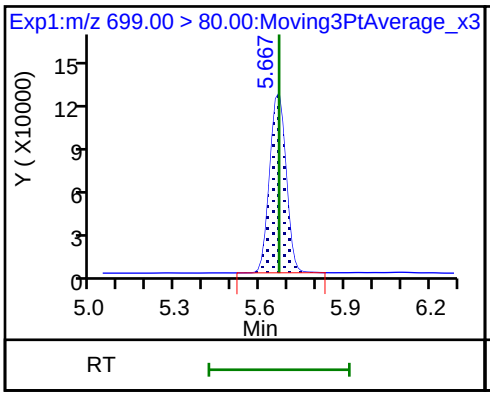
55 N-EtFOSA-M



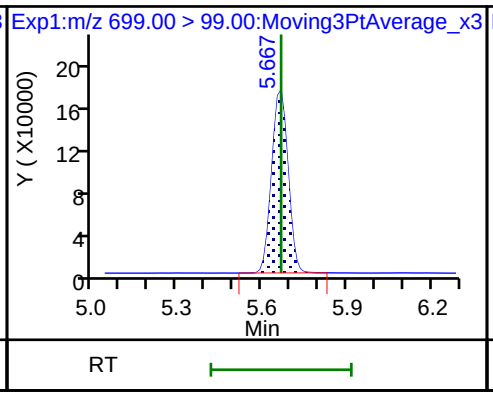
58 10:2 FTS



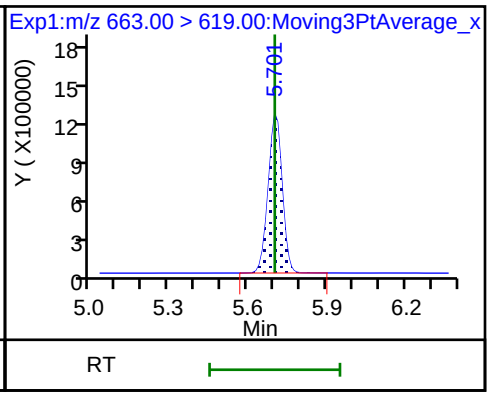
59 PFDoS



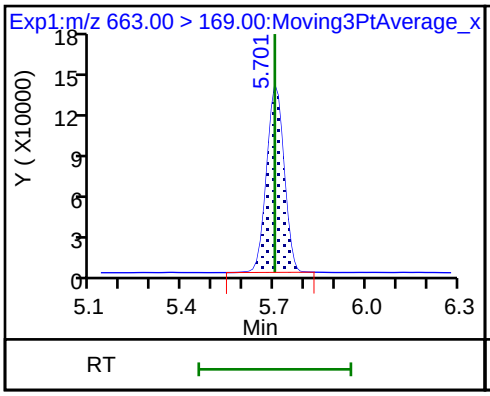
59 PFDoS



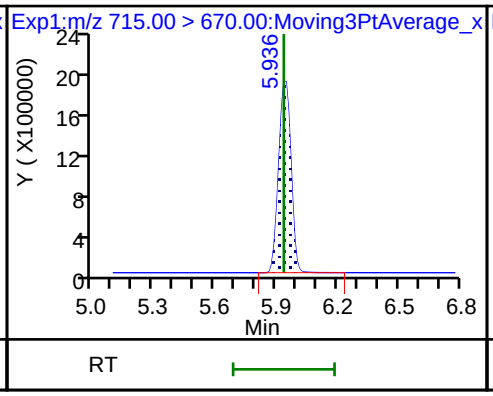
60 Perfluorotridecanoic acid



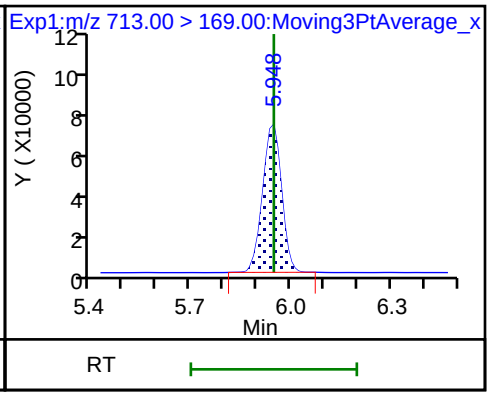
60 Perfluorotridecanoic acid



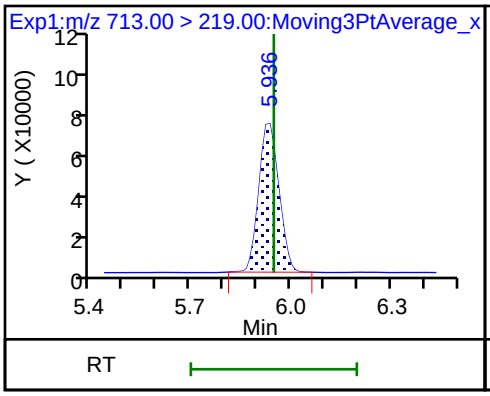
D 61 13C2 PFTeDA



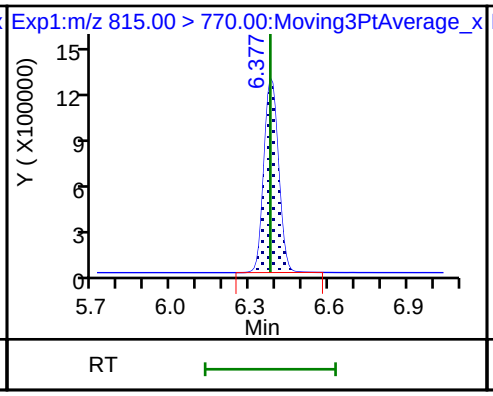
62 Perfluorotetradecanoic acid



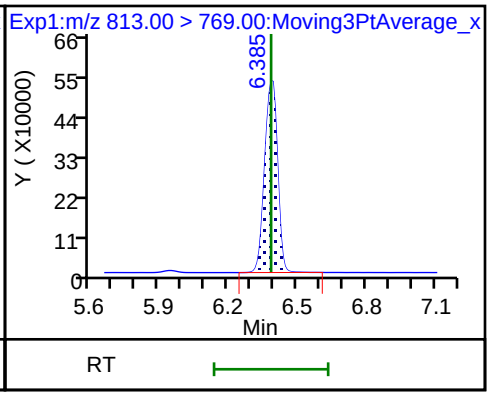
62 Perfluorotetradecanoic acid



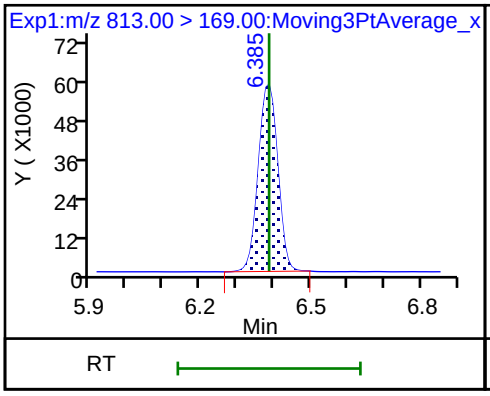
D 64 13C2 PFHxDA



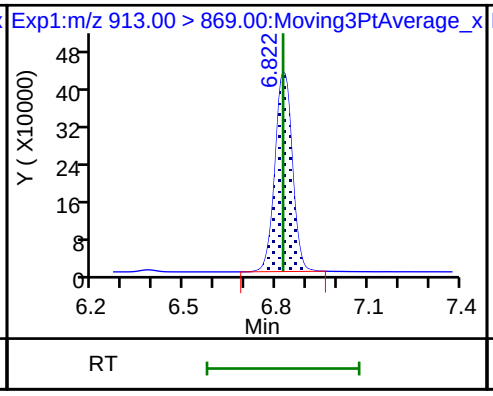
63 Perfluorohexadecanoic acid



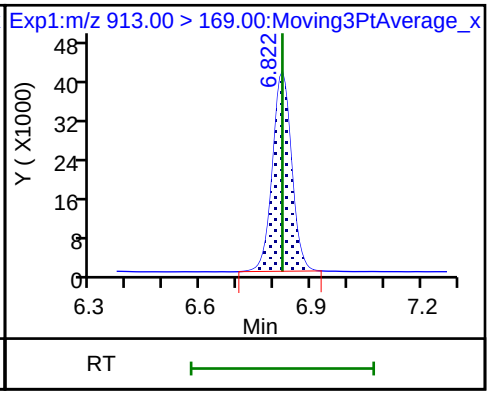
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

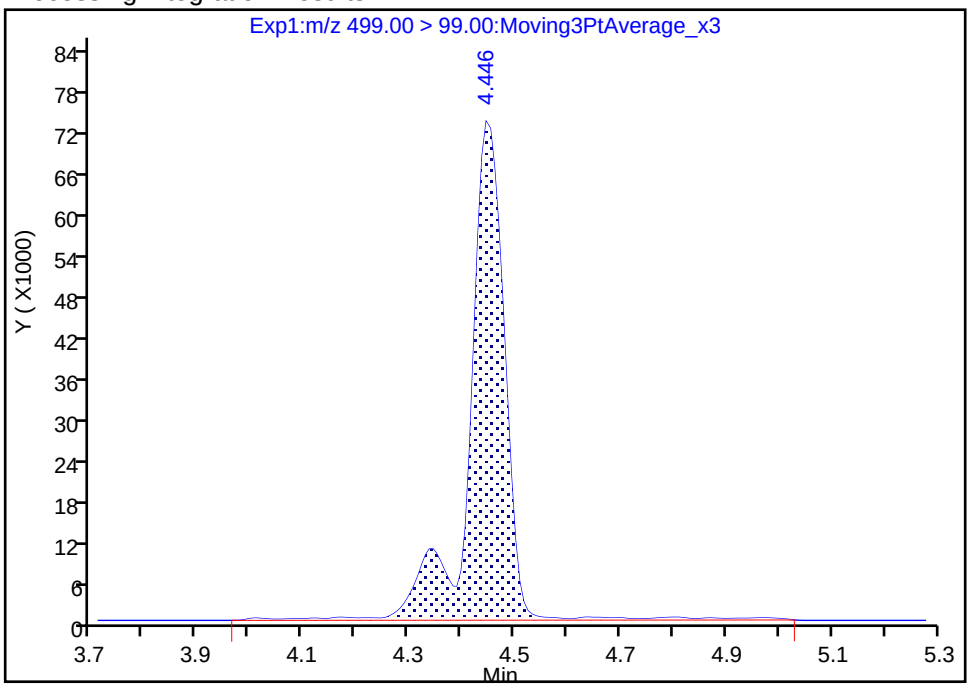
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_024.d
Injection Date: 11-Sep-2020 13:54:54 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

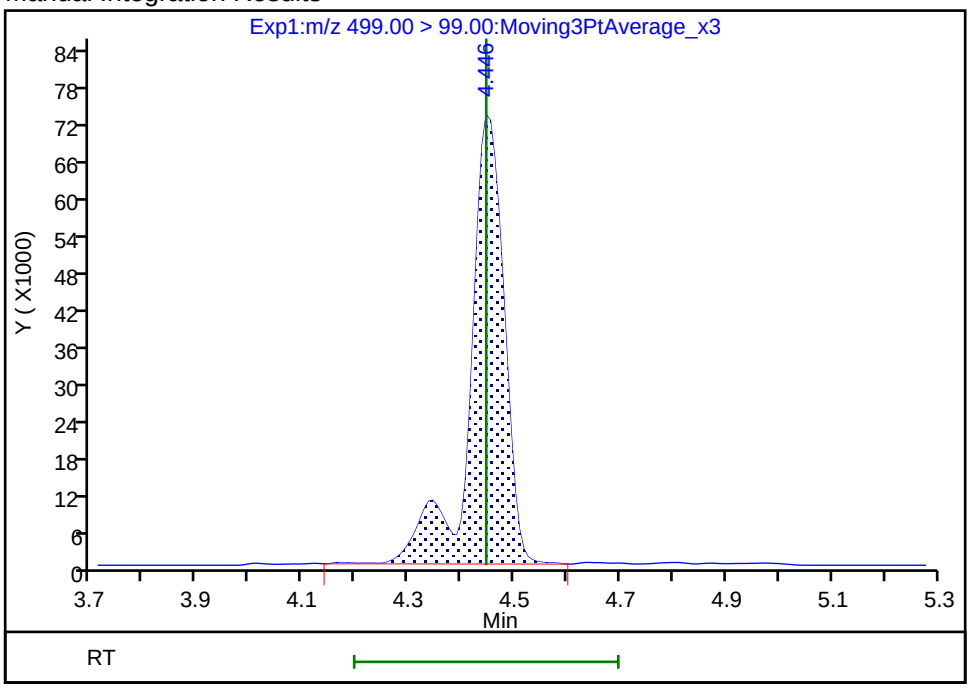
Processing Integration Results

RT: 4.45
Area: 343984
Amount: 0.749063
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 330130
Amount: 0.999787
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:12:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

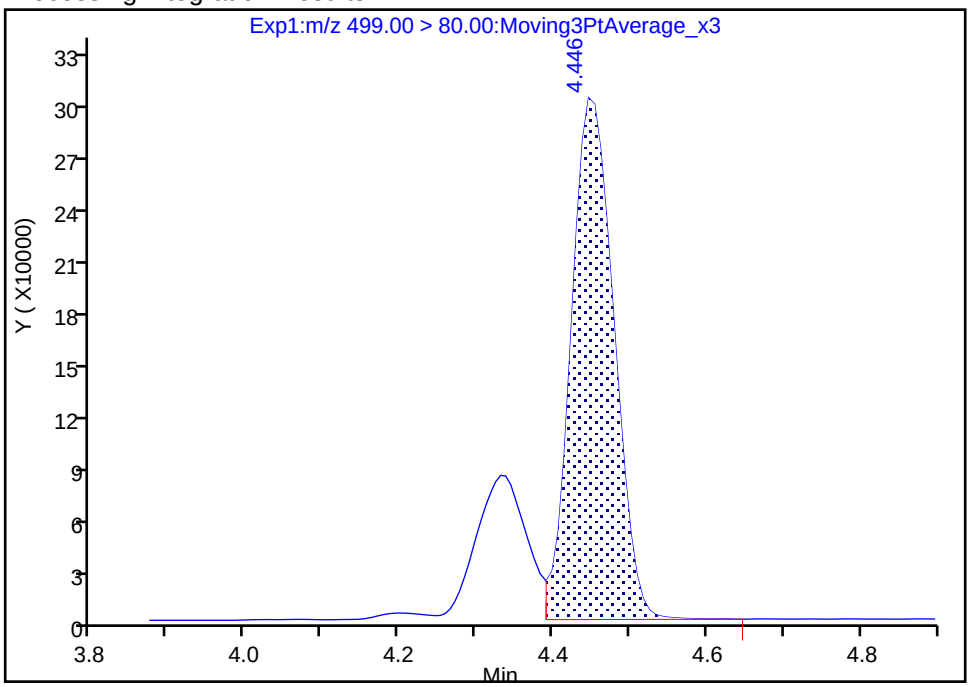
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103101.b\2020.09.11_A18_PFC_A_024.d
Injection Date: 11-Sep-2020 13:54:54 Instrument ID: A18
Lims ID: CCV L4
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 52 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

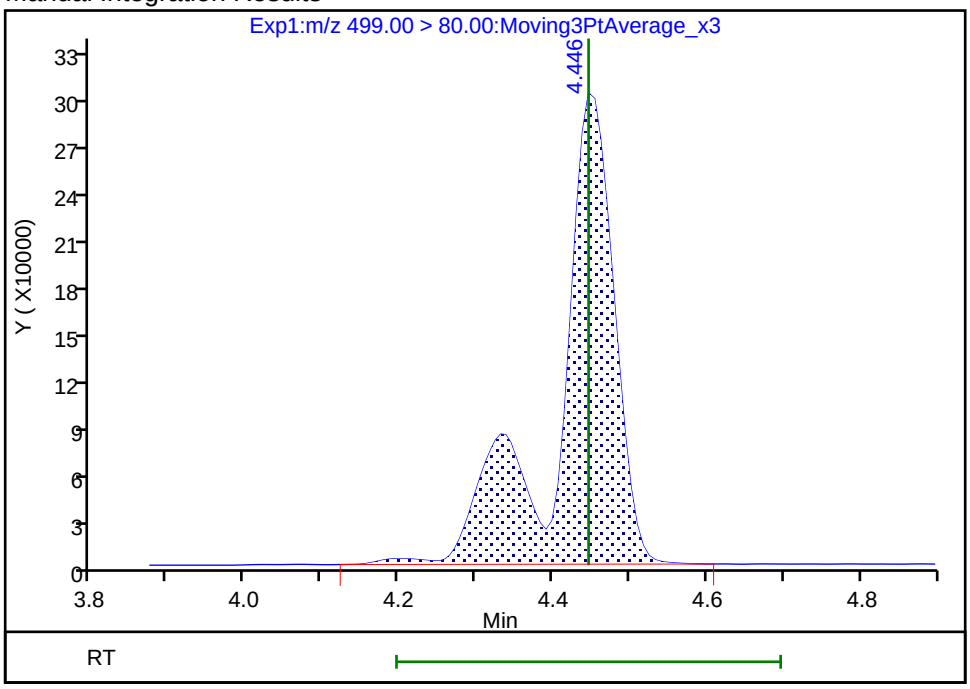
Processing Integration Results

RT: 4.45
Area: 1171483
Amount: 0.749063
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 1563599
Amount: 0.999787
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 10:12:26
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: ICV 320-410935/15 Calibration Date: 09/10/2020 12:48

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.10_A9 _PFC_ICAL_AA_024.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8734	0.9128		2.61	2.50	4.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.018	0.9837		2.42	2.50	-3.3	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.998	1.051		2.63	2.50	5.3	50.0
4:2 FTS	AveID	1.978	2.029		2.40	2.34	2.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8343	0.9112		2.73	2.50	9.2	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.4016	0.4249		2.48	2.35	5.8	50.0
HFPO-DA (GenX)	AveID	0.3959	0.3975		2.51	2.50	0.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.109	1.118		2.52	2.50	0.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.180	1.175		2.49	2.50	-0.4	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.813	1.808		2.49	2.50	-0.3	50.0
6:2 FTS	AveID	1.542	1.627		2.50	2.37	5.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.9244	0.9389		2.42	2.38	1.6	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.078	1.016		2.36	2.50	-5.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.040	1.001		2.41	2.50	-3.7	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.146		2.88	2.50	15.1	40.0
F-53B Major	AveID	0.6274	0.6513		2.60	2.50	3.8	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	2.782	2.680		2.41	2.50	-3.7	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7591	0.7596		2.40	2.40	0.0	50.0
8:2 FTS	AveID	1.288	1.197		2.23	2.40	-7.1	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.998	1.090		2.73	2.50	9.2	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7593	0.7787		2.56	2.50	2.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8492	0.8617		2.45	2.41	1.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6962	0.7295		2.62	2.50	4.8	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8112	0.8077		2.49	2.50	-0.4	40.0
NMeFOSE	AveID	1.043	0.9744		2.34	2.50	-6.6	40.0
F-53B Minor	AveID	0.7398	0.7887		2.67	2.50	6.6	50.0
NMeFOSA	AveID	1.043	0.8062		1.93	2.50	-22.7	50.0
NEtFOSE	AveID	0.9939	0.9282		2.34	2.50	-6.6	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9197	0.9762		2.65	2.50	6.1	40.0
10:2 FTS	AveID	0.8214	0.7773		2.28	2.41	-5.4	50.0
NEtFOSA	AveID	0.995	0.7877		1.98	2.50	-20.8	40.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.1269	0.1225		2.34	2.42	-3.4	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

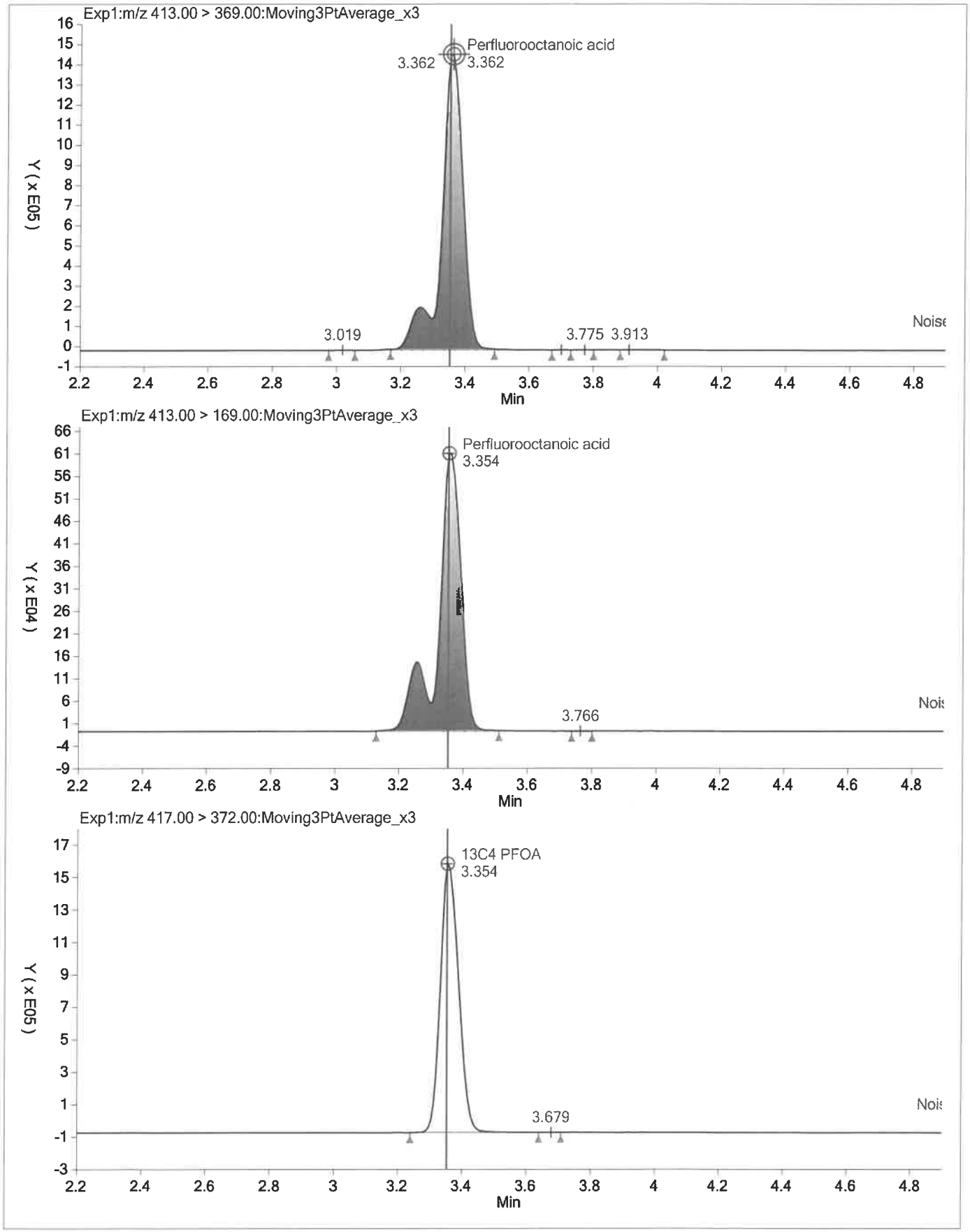
Lab Sample ID: ICV 320-410935/15 Calibration Date: 09/10/2020 12:48

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.10_A9 _PFC_ICAL_AA_024.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.7267	0.6791		2.34	2.50	-6.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1764	0.1866		2.64	2.50	5.8	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9529		2.58	2.50	3.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7480	0.7577		2.53	2.50	1.3	50.0
13C4 PFBA	Ave	1.350	1.409		2.61	2.50	4.4	50.0
13C5 PFPeA	Ave	1.138	1.097		2.41	2.50	-3.7	50.0
13C3 PFBS	Ave	2.249	2.217		2.29	2.33	-1.4	50.0
M2-4:2 FTS	Ave	0.2233	0.2103		2.20	2.34	-5.8	50.0
13C2 PFHxA	Ave	1.058	1.087		2.57	2.50	2.7	50.0
13C3 HFPO-DA	Ave	0.7264	0.7592		2.61	2.50	4.5	50.0
13C4 PFHpA	Ave	1.030	1.042		2.53	2.50	1.2	50.0
18O2 PFHxS	Ave	1.076	1.138		2.50	2.37	5.8	50.0
M2-6:2 FTS	Ave	0.1925	0.1793		2.21	2.38	-6.9	50.0
13C4 PFOA	Ave	0.9654	0.997		2.58	2.50	3.3	50.0
13C4 PFOS	Ave	1.123	1.140		2.43	2.39	1.6	50.0
13C5 PFNA	Ave	0.8376	0.8506		2.54	2.50	1.6	50.0
13C8 FOSA	Ave	0.5280	0.5580		2.64	2.50	5.7	50.0
13C2 PFDA	Ave	1.063	1.096		2.58	2.50	3.1	50.0
M2-8:2 FTS	Ave	0.2357	0.2334		2.37	2.40	-1.0	50.0
d3-NMeFOSAA	Ave	0.5286	0.5122		2.42	2.50	-3.1	50.0
13C2 PFUnA	Ave	0.8198	0.8533		2.60	2.50	4.1	50.0
d5-NEtFOSAA	Ave	0.3541	0.3587		2.53	2.50	1.3	50.0
d7-N-MeFOSE-M	Ave	0.1700	0.1761		13.0	12.5	3.6	50.0
d-N-MeFOSA-M	Ave	0.2378	0.2506		2.64	2.50	5.4	50.0
d9-N-EtFOSE-M	Ave	0.1785	0.1900		13.3	12.5	6.4	50.0
13C2 PFDoA	Ave	0.8051	0.7587		2.36	2.50	-5.8	50.0
d-N-EtFOSA-M	Ave	0.2469	0.2502		2.53	2.50	1.4	50.0
13C2 PFTeDA	Ave	0.5615	0.5161		2.30	2.50	-8.1	50.0
13C2 PFHxDA	Ave	0.4152	0.3686		2.22	2.50	-11.2	50.0
13C8 PFOA	Ave	0.8088	0.9474		2.87	2.45	17.1	50.0
13C8 PFOS	Ave	0.2542	0.2484		2.34	2.39	-2.3	50.0


Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x3
Perfluorooctanoic acid
3.362
3.362
3.019
3.775
3.913
Y (x E05)
Min
Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3
Perfluorooctanoic acid
3.354
3.766
Y (x E04)
Min
Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x3
13C4 PFOA
3.354
3.679
Y (x E05)
Min

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_024.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 10-Sep-2020 12:48:01 ALS Bottle#: 18 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV_44
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist:

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:33:00 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 13:33:00
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.893	1.893	0.0	0.565	8606018	2.61		104	3198	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.893	1.893	0.0	1.000	7855556	2.61			530	
D 4 13C5 PFPeA										
267.90 > 223.00	2.198	2.198	0.0	0.656	6695664	2.41		96.3	3301	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.198	2.198	0.0	1.000	6586411	2.42			554	
D 6 13C3 PFBS										
301.90 > 80.00	2.233	2.233	0.0	0.666	12589342	2.29		98.6	2119	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.233	2.233	0.0	1.000	14223191	2.63	Target=3.10		935	
298.90 > 99.00	2.233	2.233	0.0	1.000	4803204		2.96(1.55-4.65)		1046	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.514	2.515	-0.001	0.750	1199269	2.20		94.2	652	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.514	2.526	-0.012	1.000	2433808	2.40			5605	
D 10 13C2 PFHxA										
315.00 > 270.00	2.557	2.558	-0.001	0.763	6638685	2.57		103	3774	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.557	2.558	-0.001	1.000	6049059	2.73	Target=9.68		834	
313.00 > 119.00	2.557	2.558	-0.001	1.000	585840		10.33(4.84-14.52)		412	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.578	2.579	-0.001	1.155	5394732	2.48	Target=2.01		1087	
349.00 > 99.00	2.568	2.579	-0.011	1.150	2750953		1.96(1.00-3.01)		1648	
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.686	2.674	0.012	1.005	1842526	2.51			2918	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.673	2.674	-0.001	0.797	4635728	2.61		105	4176	
D 15 13C4 PFHpA										
367.00 > 322.00	2.951	2.952	-0.001	0.880	6364694	2.53		101	3165	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.951	2.952	-0.001	1.000	7113546	2.52	Target=3.74		1313	
363.00 > 169.00	2.946	2.952	-0.006	0.998	1822904		3.90(1.87-5.61)		1515	
D 17 18O2 PFHxS										
403.00 > 84.00	2.951	2.957	-0.006	0.880	6571506	2.50		106	3754	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.951	2.957	-0.006	1.000	8160156	2.49	Target=3.29		924	
399.00 > 99.00	2.951	2.957	-0.006	1.000	2355056		3.46(1.65-4.94)		1012	M
19 DONA										
377.00 > 251.00	3.001	3.002	-0.001	0.805	12585852	2.49	Target=1.80		5183	
377.00 > 85.00	2.993	3.002	-0.009	0.803	7221240		1.74(0.90-2.70)		4858	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.330	3.331	-0.001	0.993	1039970	2.21		93.1	1208	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.330	3.331	-0.001	1.000	1688757	2.50			1597	
$ 21 13C8 PFOA										
421.00 > 376.00	3.345	3.346	-0.001	0.998	5663028	2.87		117	5789	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.352	3.353	-0.001	0.900	6223218	2.42	Target=3.65		1354	
449.00 > 99.00	3.352	3.353	-0.001	0.900	1631499		3.81(1.83-5.48)		1492	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.352	3.353	-0.001	1.000	6187017	2.36	Target=2.37		461	
413.00 > 169.00	3.352	3.353	-0.001	1.000	2566089		2.41(1.19-3.56)		347	
* 25 13C2 PFOA										
415.00 > 370.00	3.352	3.353	-0.001		6105955	2.50			4523	
D 26 13C4 PFOA										
417.00 > 372.00	3.352	3.353	-0.001	1.000	6087527	2.58		103	5151	
$ 27 13C8 PFOS										
507.00 > 99.00	3.727	3.729	-0.002	1.112	1450230	2.34		97.7	1551	
28 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.734	3.737	-0.003	1.002	6968942	2.41	Target=4.12		621	
499.00 > 99.00	3.727	3.737	-0.010	1.000	1570141		4.44(2.06-6.17)		1951	
D 31 13C4 PFOS										
503.00 > 80.00	3.727	3.737	-0.010	1.112	6655945	2.43		102	1676	
D 29 13C5 PFNA										
468.00 > 423.00	3.744	3.746	-0.002	1.117	5193940	2.54		102	3869	
30 Perfluorononanoic acid										
463.00 > 419.00	3.744	3.746	-0.002	1.000	5952123	2.88	Target=4.21		2723	
463.00 > 169.00	3.744	3.746	-0.002	1.000	1360307		4.38(2.11-6.32)		1640	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.937	3.939	-0.002	1.056	4534352	2.59			6352	
D 36 13C8 FOSA										
506.00 > 78.00	4.073	4.079	-0.005	1.215	3407239	2.64		106	3758	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.073	4.079	-0.005	1.000	9130873	2.41			3261	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.082	4.087	-0.005	1.095	5076992	2.40	Target=5.56		1973	
549.00 > 99.00	4.082	4.087	-0.005	1.095	808589		6.28(2.78-8.34)		1666	
D 33 13C2 PFDA										
515.00 > 470.00	4.109	4.114	-0.005	1.226	6690270	2.58		103	5553	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.109	4.114	-0.005	1.000	7292732	2.73	Target=14.33		3614	
513.00 > 169.00	4.109	4.114	-0.005	1.000	499910		14.59(7.16-21.49)		395	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.109	4.114	-0.005	1.226	1365421	2.37		99.0	1425	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.109	4.114	-0.005	1.000	1634585	2.23			3114	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.270	4.276	-0.006	1.274	3127520	2.42		96.9	2760	
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.279	4.276	0.003	1.002	2435453	2.56			417	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.400	4.405	-0.005	1.181	5783126	2.45	Target=4.29		1973	
599.00 > 99.00	4.400	4.405	-0.005	1.181	1271650		4.55(2.15-6.44)		2568	
D 46 13C2 PFUnA										
565.00 > 520.00	4.426	4.431	-0.005	1.320	5210329	2.60		104	7079	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.426	4.431	-0.005	1.000	3801055	2.62	Target=6.74		2628	
563.00 > 169.00	4.426	4.431	-0.005	1.000	541383		7.02(3.37-10.11)		301	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.440	-0.006	1.323	2190090	2.53		101	2043	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.443	4.448	-0.005	1.002	1769015	2.49			1486	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.537	4.542	-0.005	1.353	5376473	13.0		104	4603	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.546	4.551	-0.005	1.002	1047811	2.33			1985	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.554	4.560	-0.006	1.358	1530287	2.64		105	232	
50 NMeFOSA										
512.00 > 169.00	4.563	4.560	0.003	1.002	1233723	1.93			1353	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.563	4.569	-0.006	1.224	5490877	2.66			4142	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.712	4.709	0.003	1.405	5800502	13.3		106	4457	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.721	4.728	-0.007	1.002	1076863	2.33			2139	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.721	4.728	-0.007	1.000	4522218	2.65	Target=6.67		2801	
613.00 > 169.00	4.721	4.728	-0.007	1.000	631382		7.16(3.34-10.01)		1848	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	4.721	4.728	-0.007	1.408	4632592	2.36		94.2	8830	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.739	4.737	0.002	1.414	1527797	2.53		101	869	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.739	4.746	-0.007	1.000	1203376	1.98			567	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.739	4.746	-0.007	1.153	1068049	2.28			5614	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.952	4.957	-0.005	1.329	825575	2.34	Target=1.02		1503	
699.00 > 99.00	4.952	4.957	-0.005	1.329	815643		1.01(0.51-1.53)		3435	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.985	4.990	-0.005	1.056	3146221	2.34	Target=4.80		5286	
663.00 > 169.00	4.985	4.990	-0.005	1.056	680471		4.62(2.40-7.20)		646	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.227	5.232	-0.005	1.559	3151305	2.30		91.9	5367	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.227	5.232	-0.005	1.000	588031	2.64	Target=1.37		2413	
713.00 > 219.00	5.227	5.232	-0.005	1.000	459014		1.28(0.69-2.06)		375	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.661	5.668	-0.007	1.689	2250395	2.22		88.8	5267	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.670	5.668	0.002	1.002	2144438	2.58	Target=4.63		3802	
813.00 > 169.00	5.670	5.668	0.002	1.002	454129		4.72(2.32-6.95)		2723	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.086	6.092	-0.006	1.075	1705181	2.53	Target=4.01		2003	
913.00 > 169.00	6.086	6.092	-0.006	1.075	419328		4.07(2.01-6.02)		1430	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFCIC_FULL_00044 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:33:04 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_024.d

Injection Date: 10-Sep-2020 12:48:01 Instrument ID: A9

Lims ID: ICV

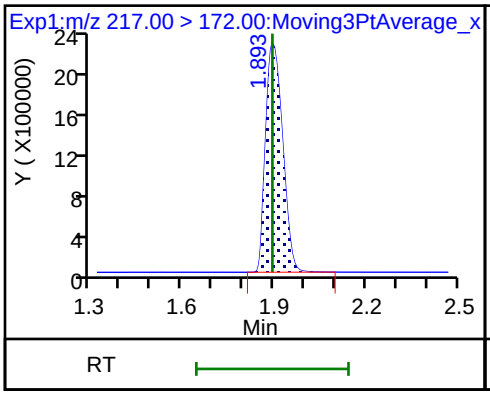
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 18 Worklist Smp#: 15

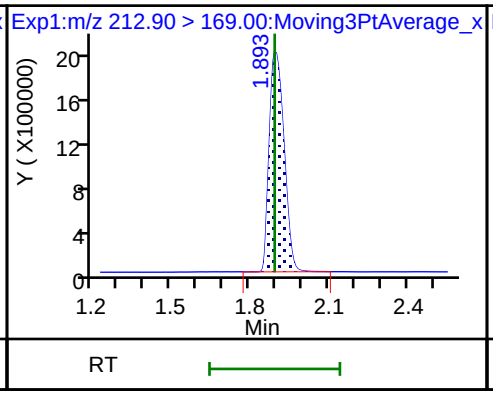
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

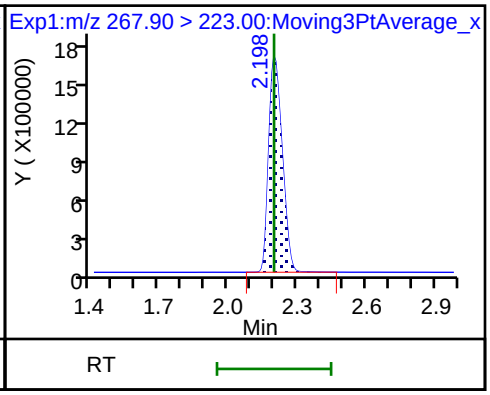
D 1 13C4 PFBA



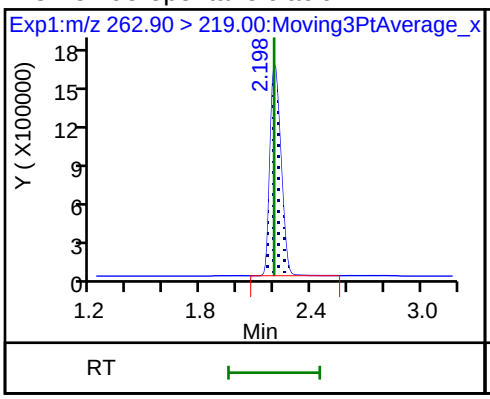
2 Perfluorobutanoic acid



D 4 13C5 PFPeA



3 Perfluoropentanoic acid



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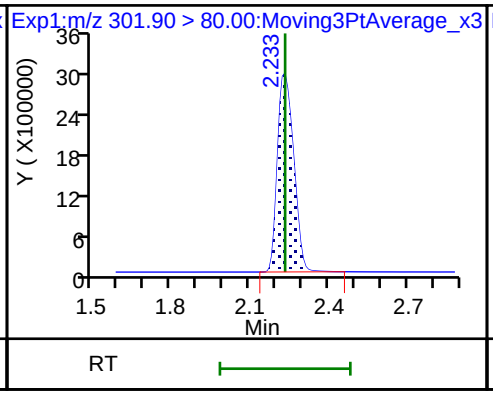
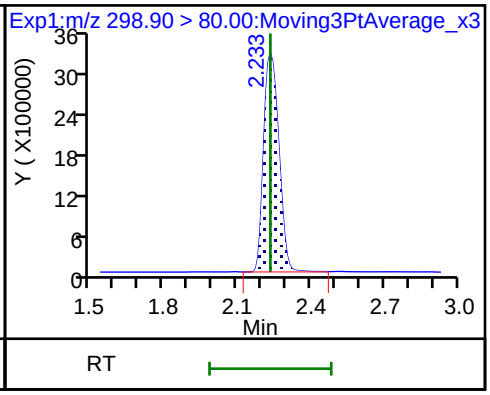
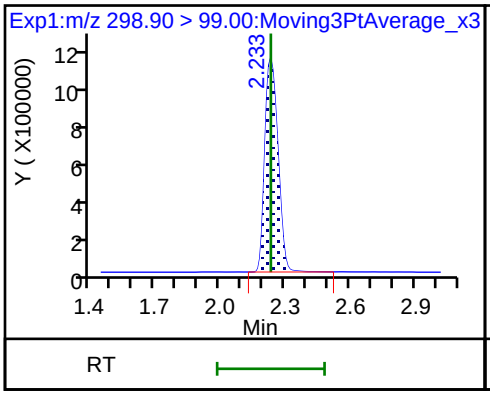


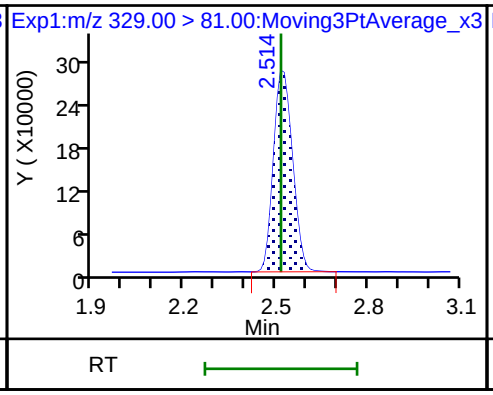
5 Perfluorobutanesulfonic acid



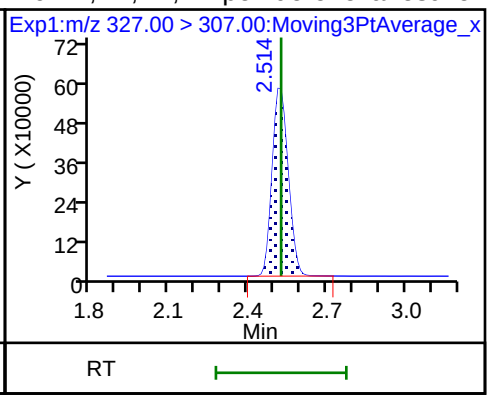
5 Perfluorobutanesulfonic acid



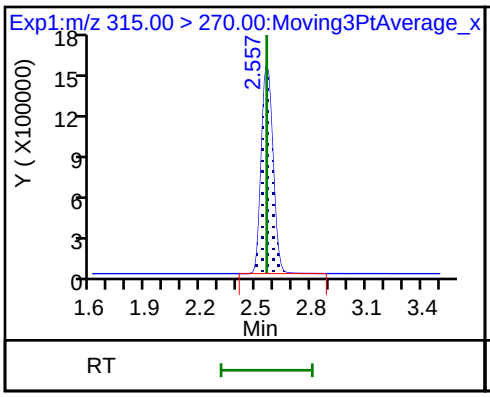
D 8 M2-4:2 FTS



9 1H,1H,2H,2H-perfluorohexanesulfo



D 10 13C2 PFHxA



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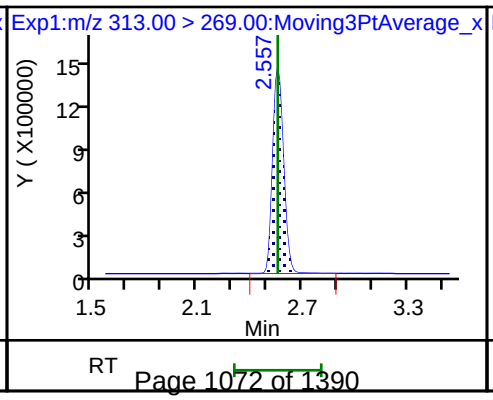

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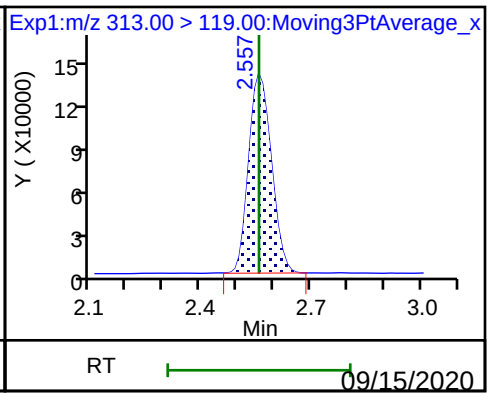
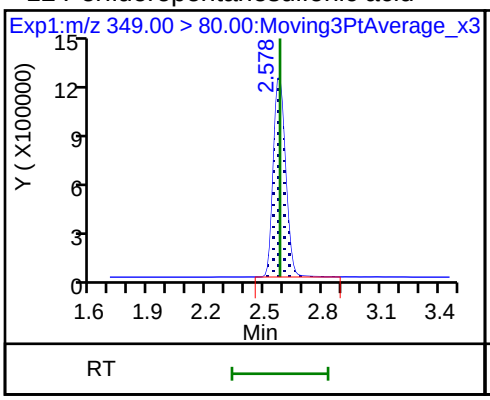
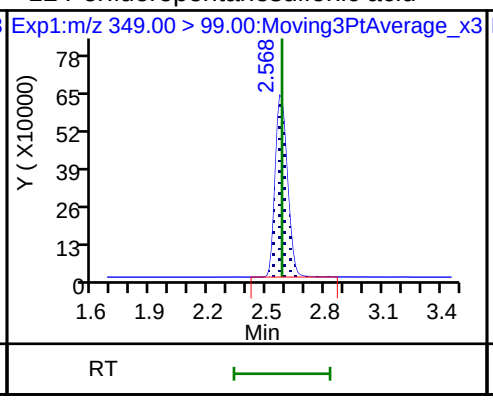


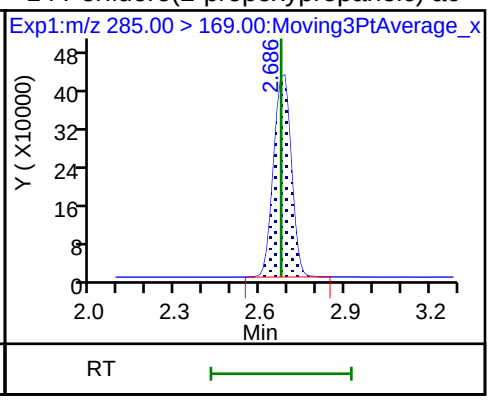
12 Perfluoropentanesulfonic acid



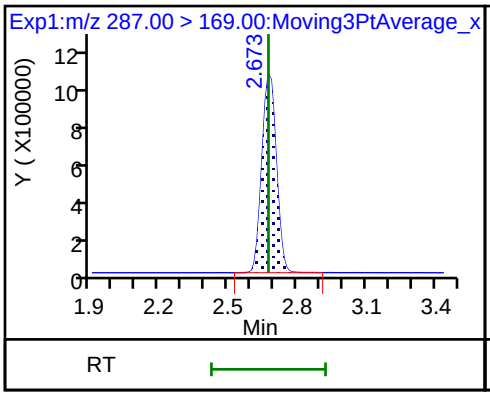
12 Perfluoropentanesulfonic acid



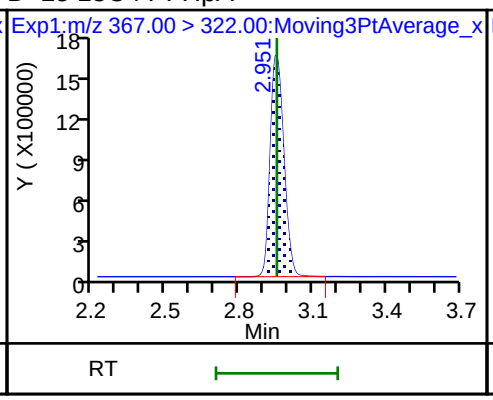
14 Perfluoro(2-propoxypropanoic) ac



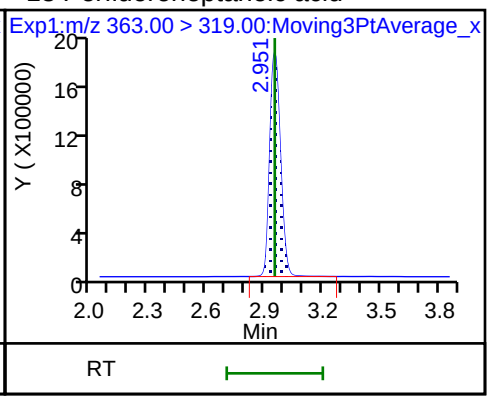
D 13 13C3 HFPO-DA



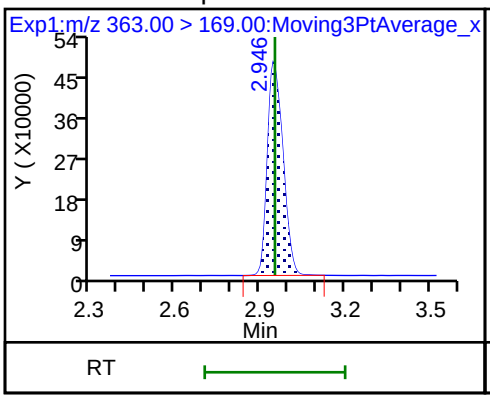
D 15 13C4 PFHpA



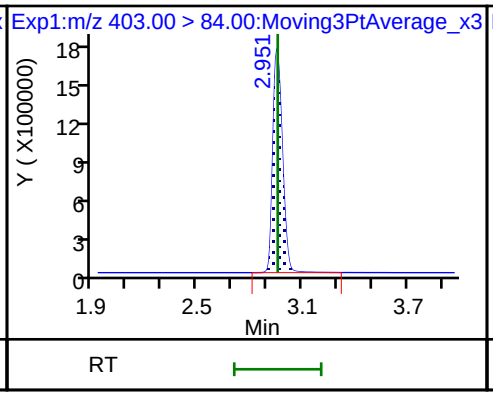
18 Perfluoroheptanoic acid



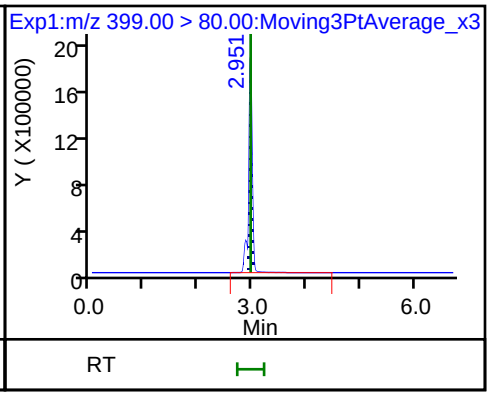
18 Perfluoroheptanoic acid



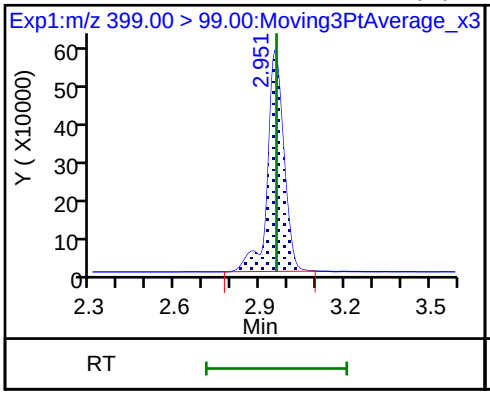
D 17 18O2 PFHxS



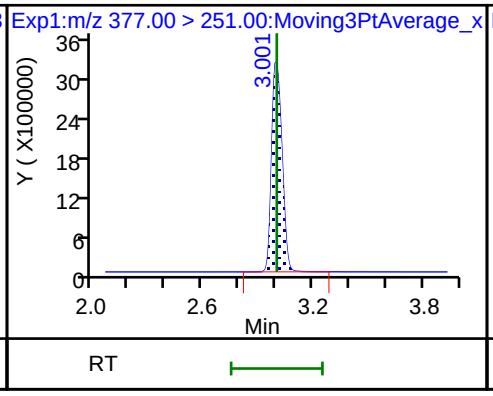
16 Perfluorohexanesulfonic acid



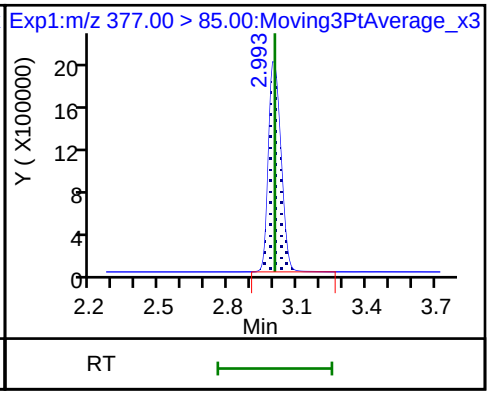
16 Perfluorohexanesulfonic acid (M)



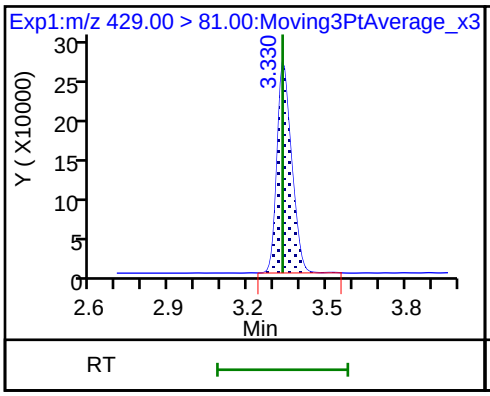
19 DONA



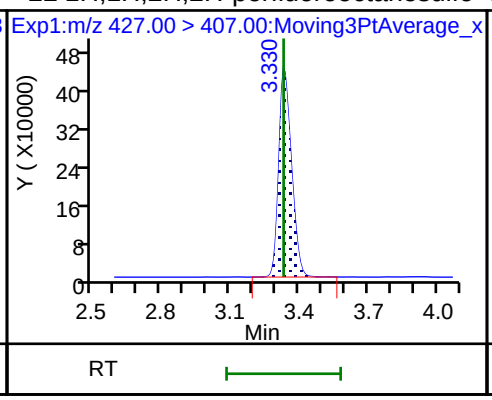
19 DONA



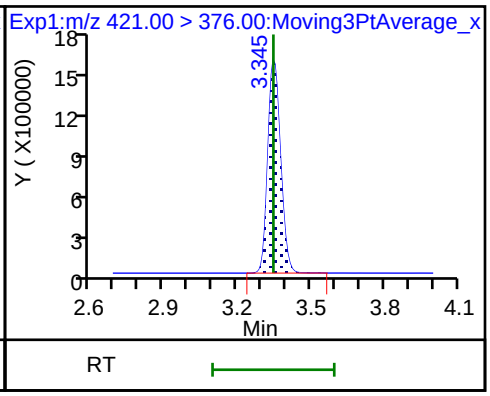
D 20 M2-6:2 FTS



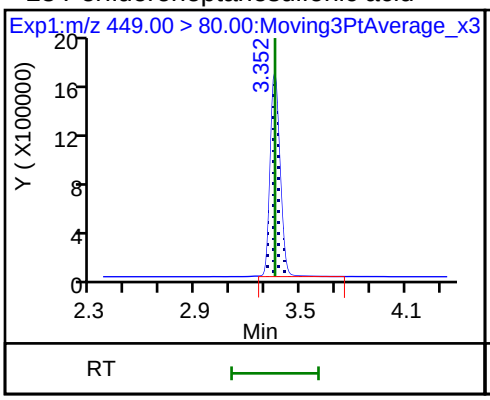
22 1H,1H,2H,2H-perfluorooctanesulfo



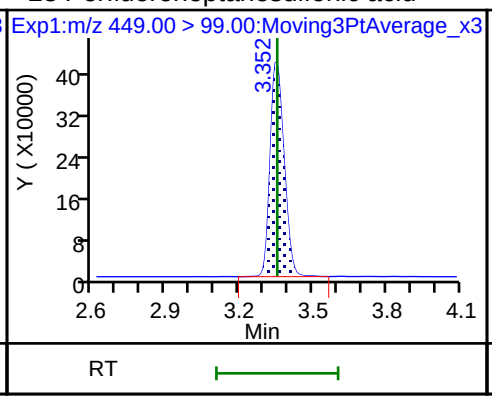
$ 21 13C8 PFOA



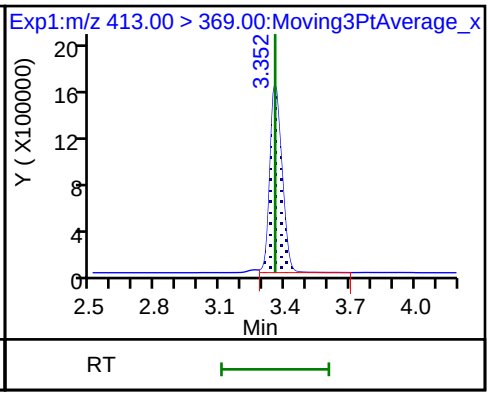
23 Perfluoroheptanesulfonic acid



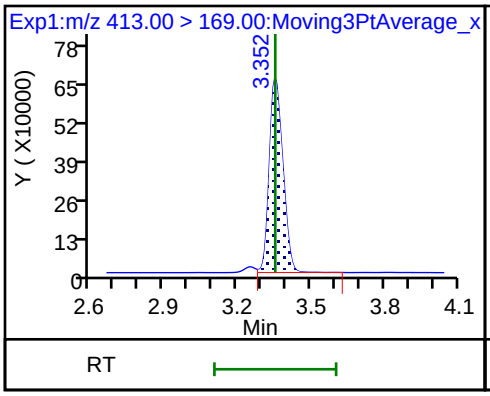
23 Perfluoroheptanesulfonic acid



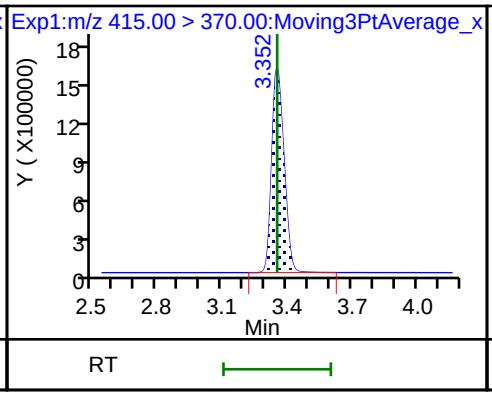
24 Perfluorooctanoic acid



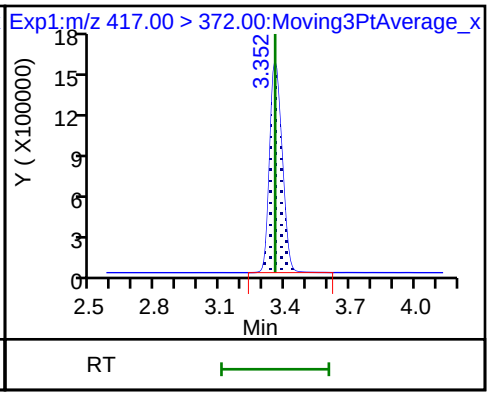
24 Perfluorooctanoic acid



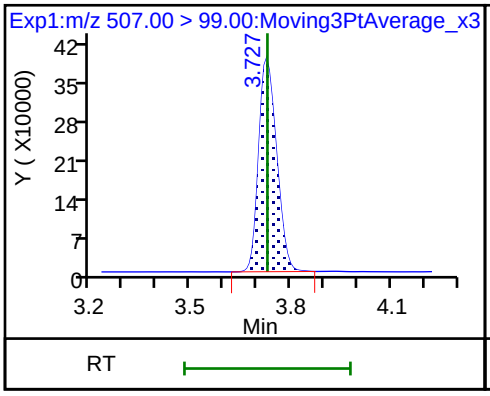
* 25 13C2 PFOA



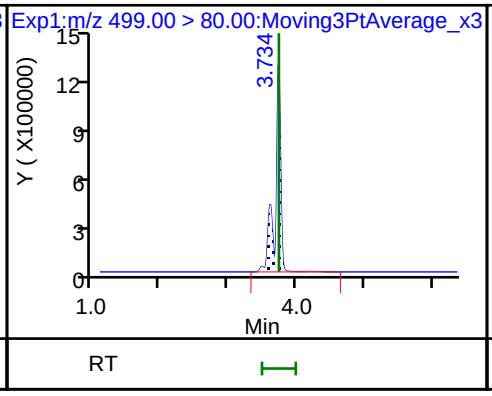
D 26 13C4 PFOA



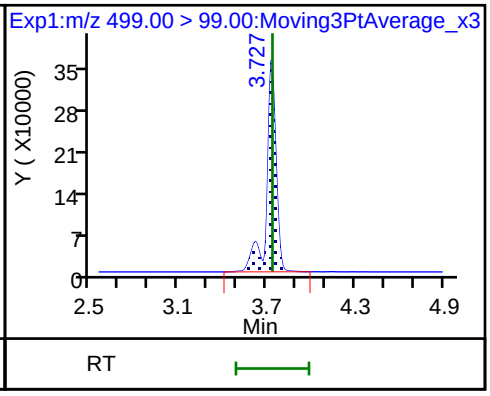
$ 27 13C8 PFOS



28 Perfluorooctanesulfonic acid



28 Perfluorooctanesulfonic acid



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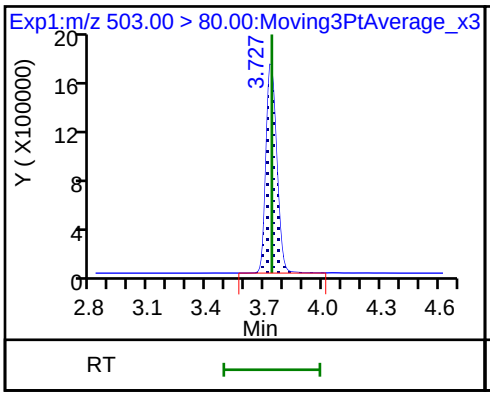
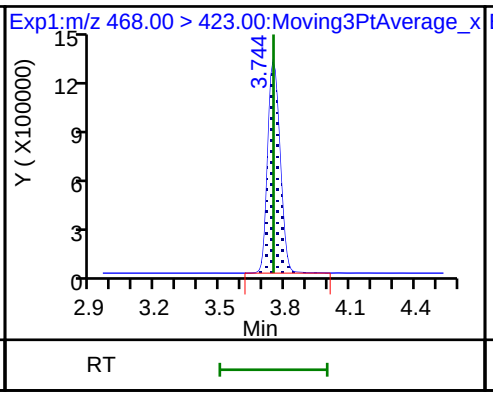
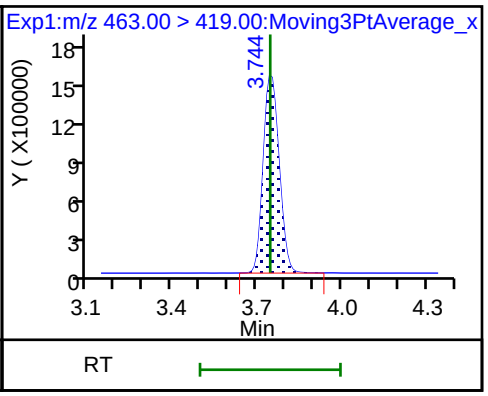


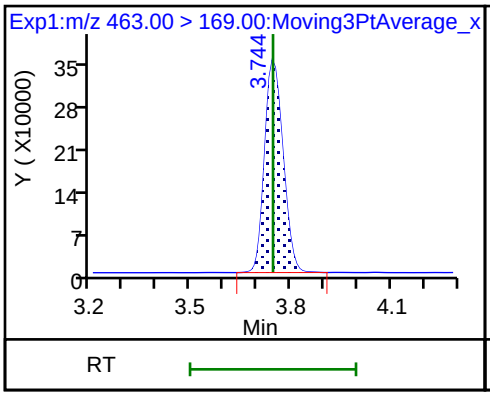
D 29 13C5 PFNA



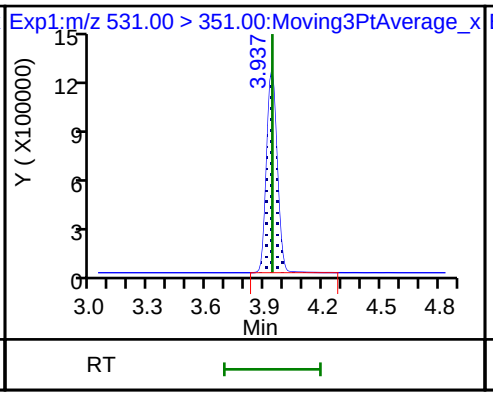
30 Perfluorononanoic acid



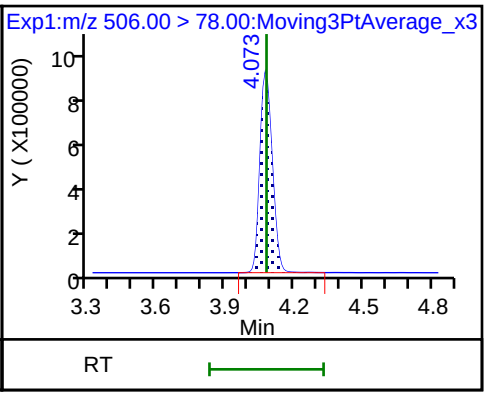
30 Perfluorononanoic acid



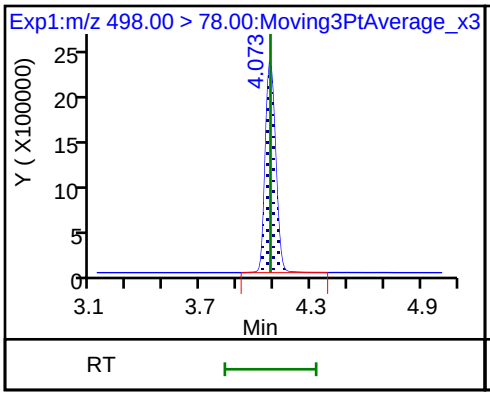
32 9-Chlorohexadecafluoro-3-oxanona



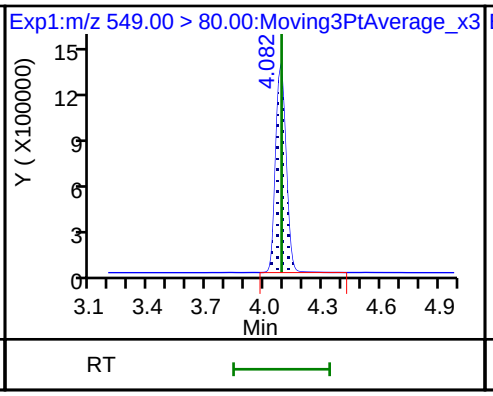
D 36 13C8 FOSA



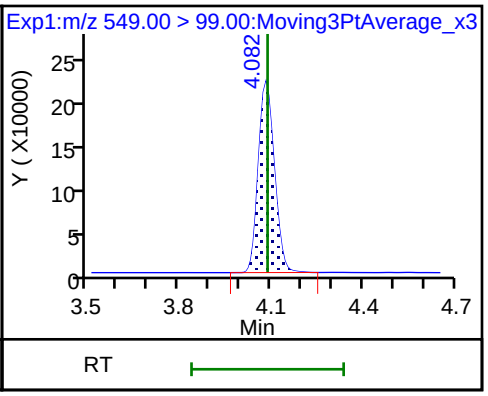
34 Perfluorooctanesulfonamide



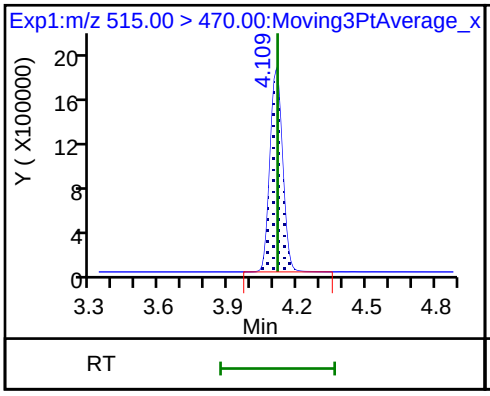
35 Perfluorononanesulfonic acid



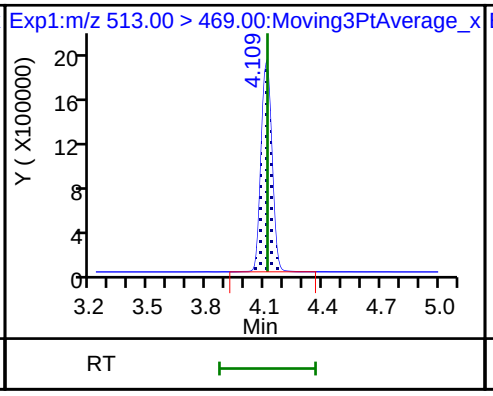
35 Perfluorononanesulfonic acid



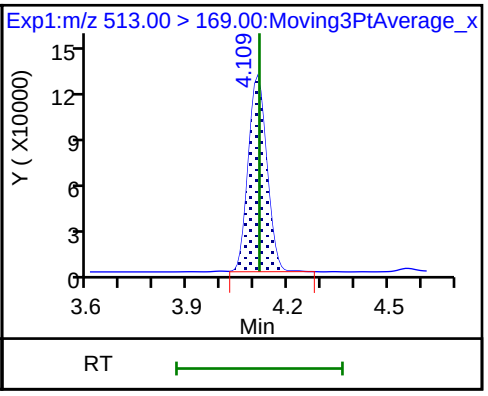
D 33 13C2 PFDA



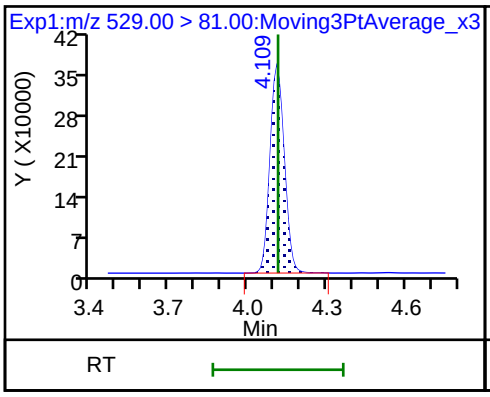
38 Perfluorodecanoic acid



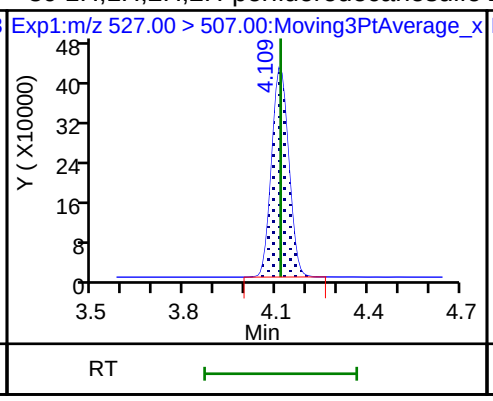
38 Perfluorodecanoic acid



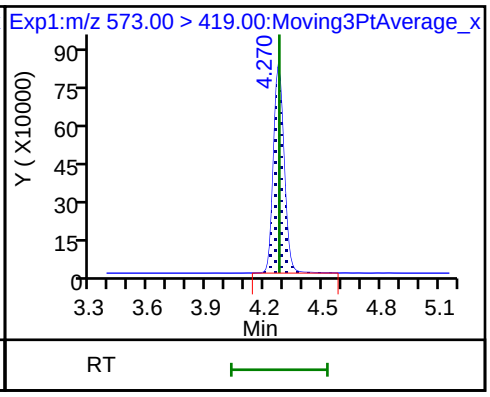
D 37 M2-8:2 FTS



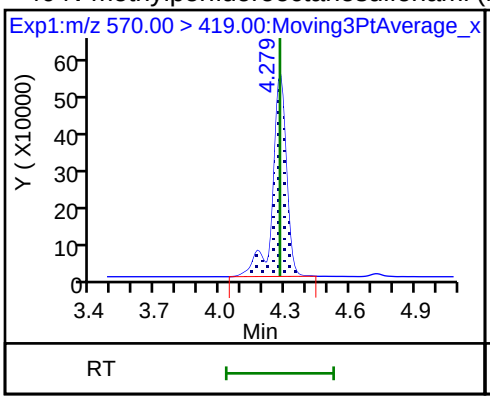
39 1H,1H,2H,2H-perfluorodecanesulfo



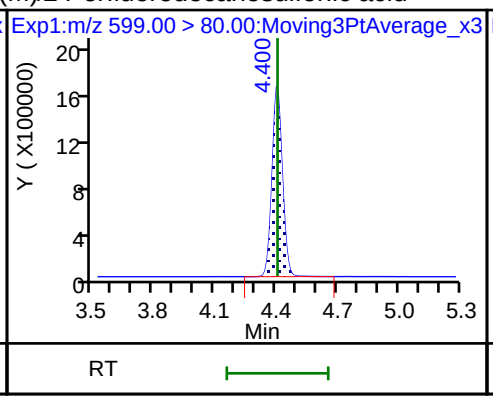
D 41 d3-NMeFOSAA



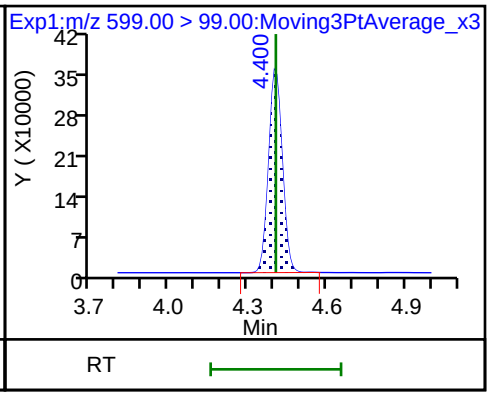
40 N-methylperfluorooctanesulfonami (M)



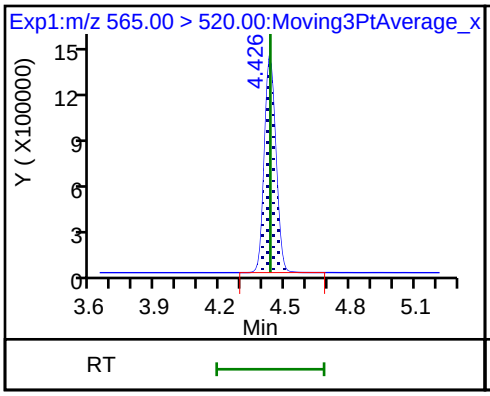
42 Perfluorodecanesulfonic acid



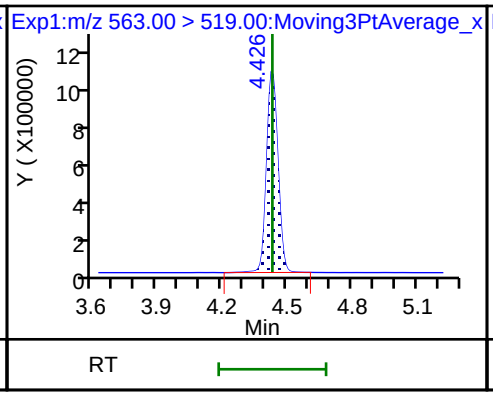
42 Perfluorodecanesulfonic acid



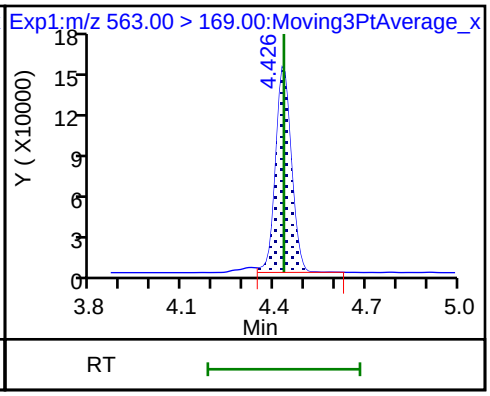
D 46 13C2 PFUnA



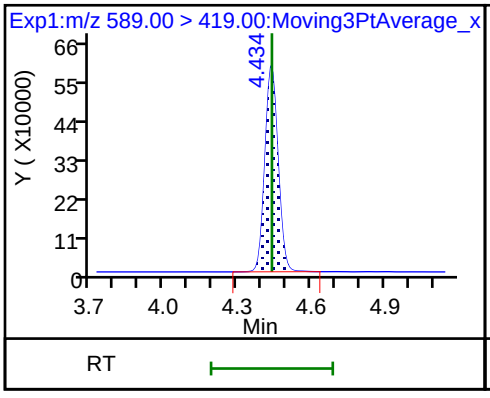
43 Perfluoroundecanoic acid



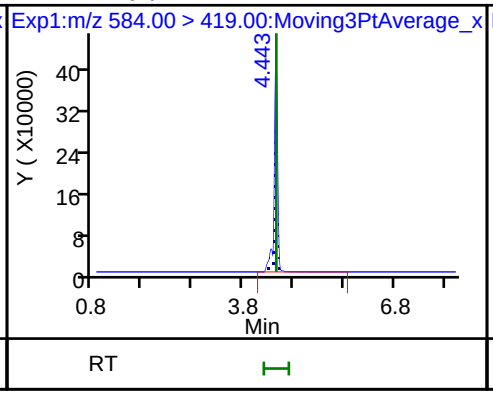
43 Perfluoroundecanoic acid



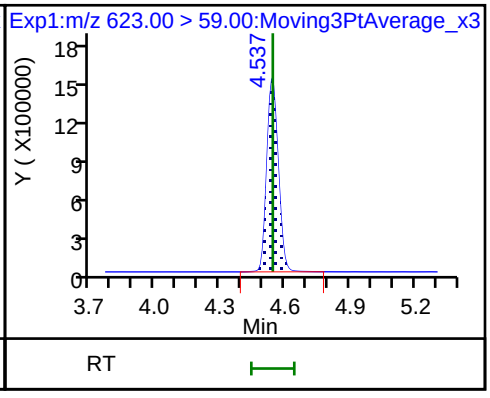
D 45 d5-NEtFOSAA



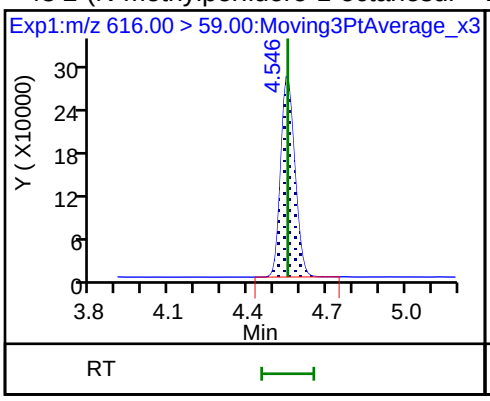
44 N-ethylperfluorooctanesulfonamid



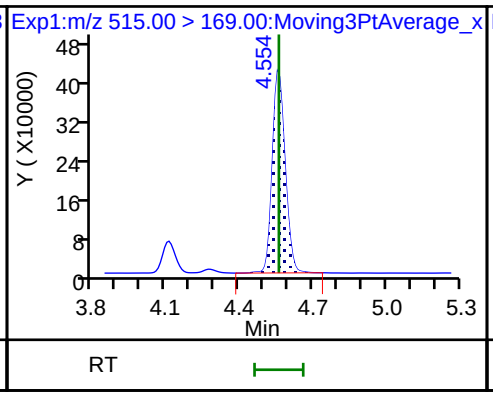
D 47 d7-N-MeFOSE-M



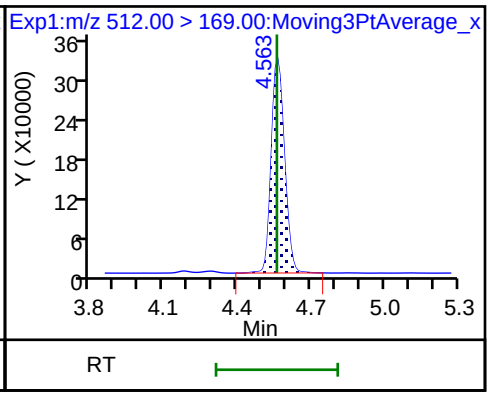
48 2-(N-methylperfluoro-1-octanesul



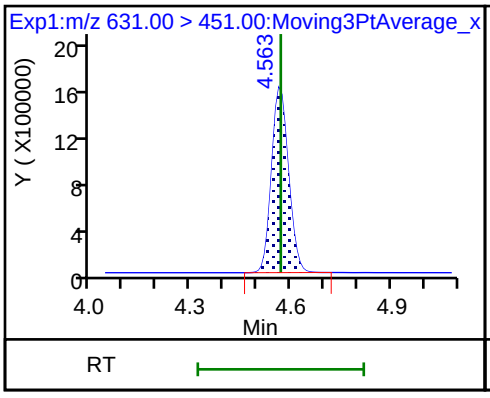
D 49 d-N-MeFOSA-M



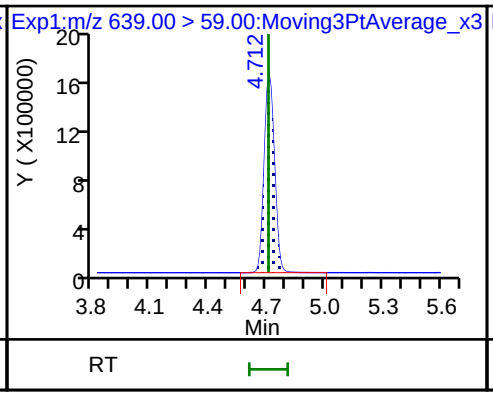
50 NMeFOSA



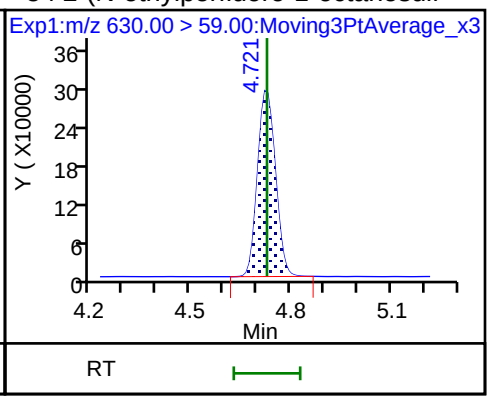
51 11-Chloroeicosafluoro-3-oxaundec



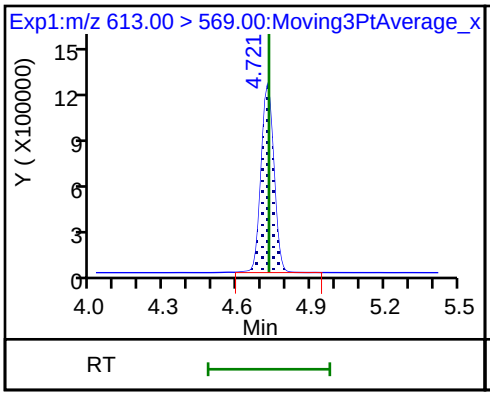
D 53 d9-N-EtFOSE-M



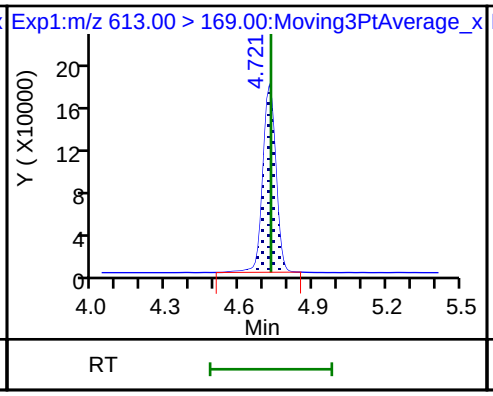
54 2-(N-ethylperfluoro-1-octanesulf



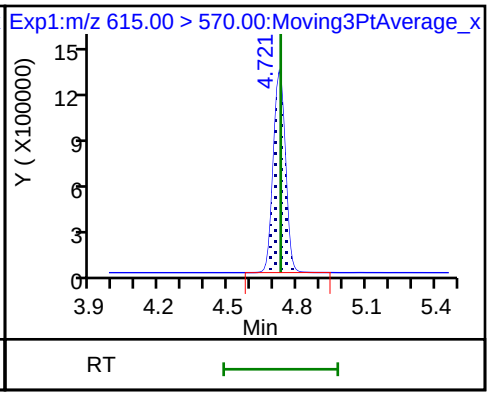
52 Perfluorododecanoic acid



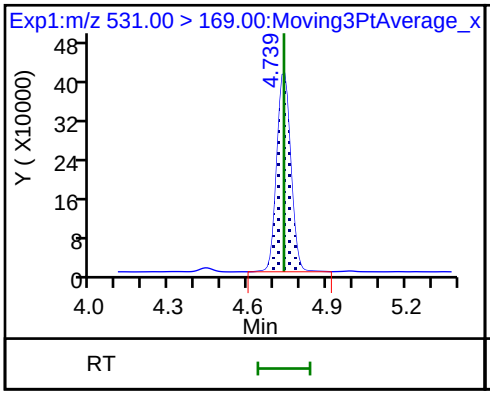
52 Perfluorododecanoic acid



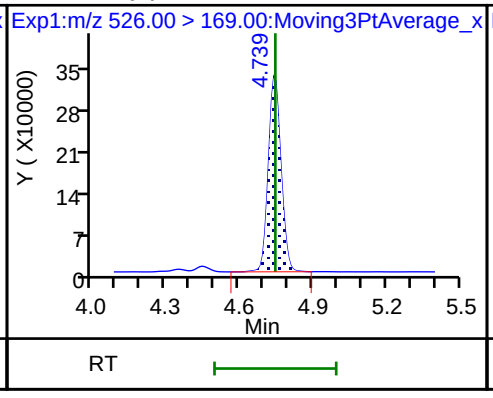
D 56 13C2 PFDoA



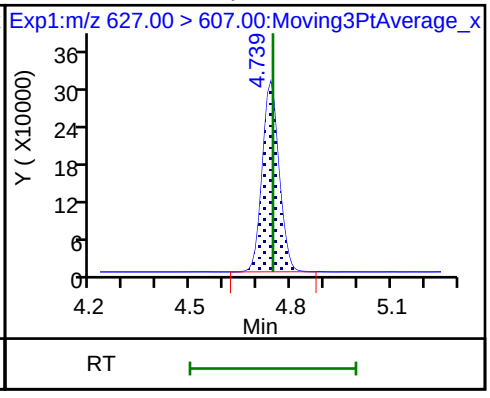
D 58 d-N-EtFOSA-M



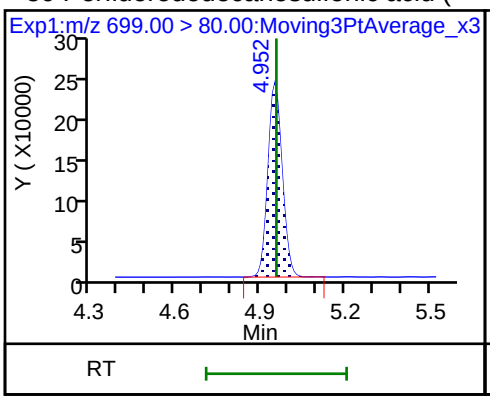
57 N-ethylperfluoro-1-octanesulfona



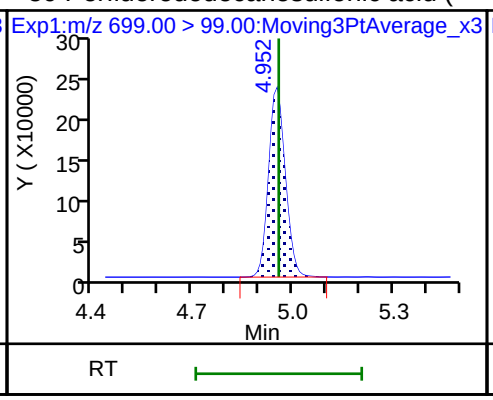
55 1H,1H,2H,2H-perfluorododecanesul



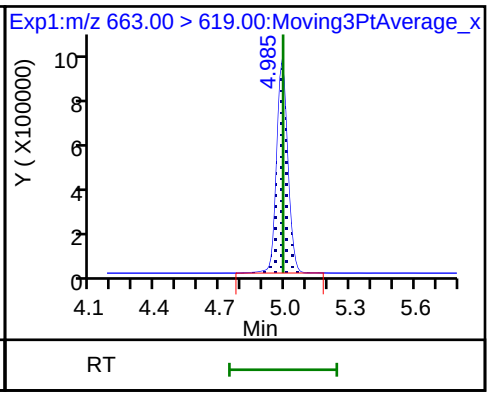
59 Perfluorododecanesulfonic acid (



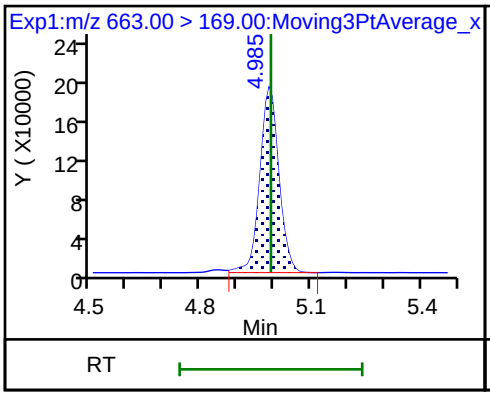
59 Perfluorododecanesulfonic acid (



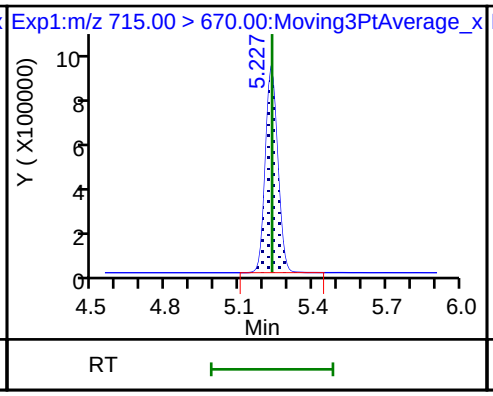
60 Perfluorotridecanoic acid



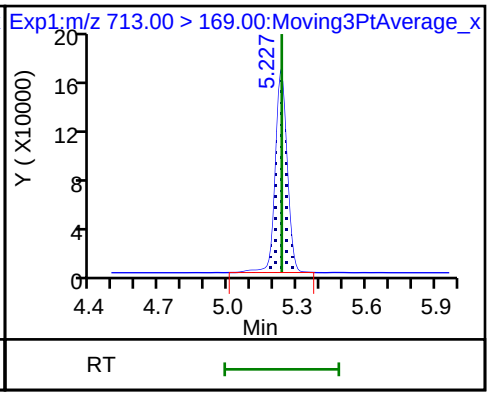
60 Perfluorotridecanoic acid



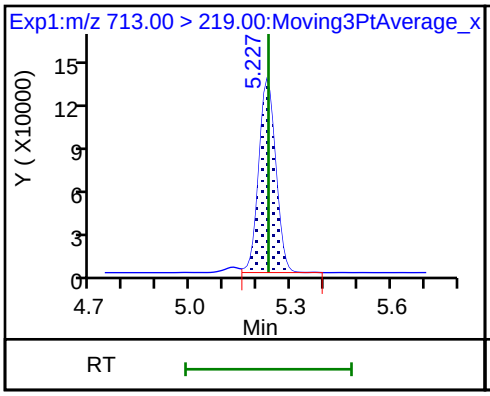
D 62 13C2 PFTeDA



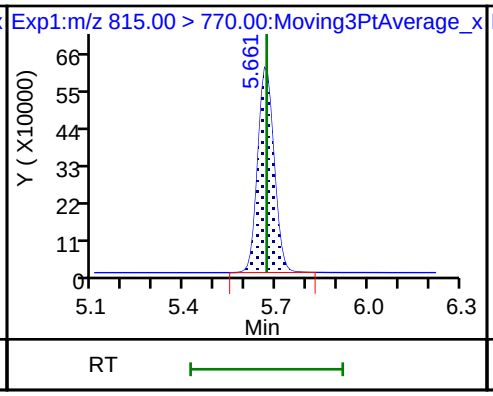
61 Perfluorotetradecanoic acid



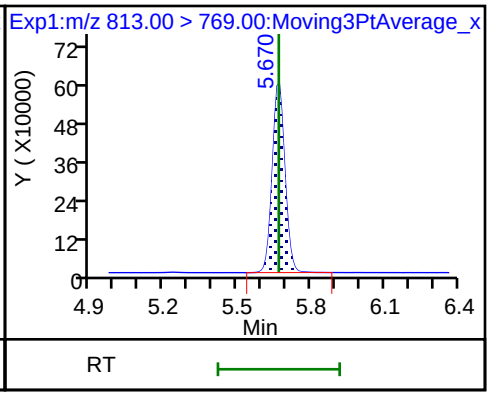
61 Perfluorotetradecanoic acid



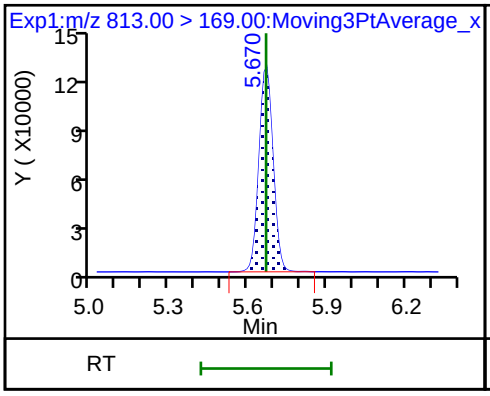
D 63 13C2 PFHxDA



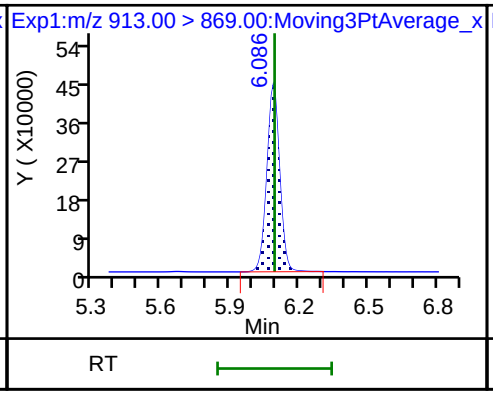
64 Perfluorohexadecanoic acid



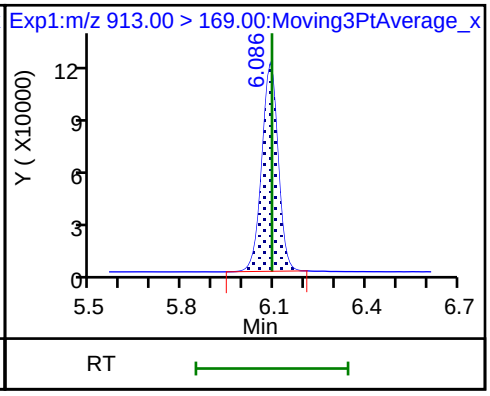
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

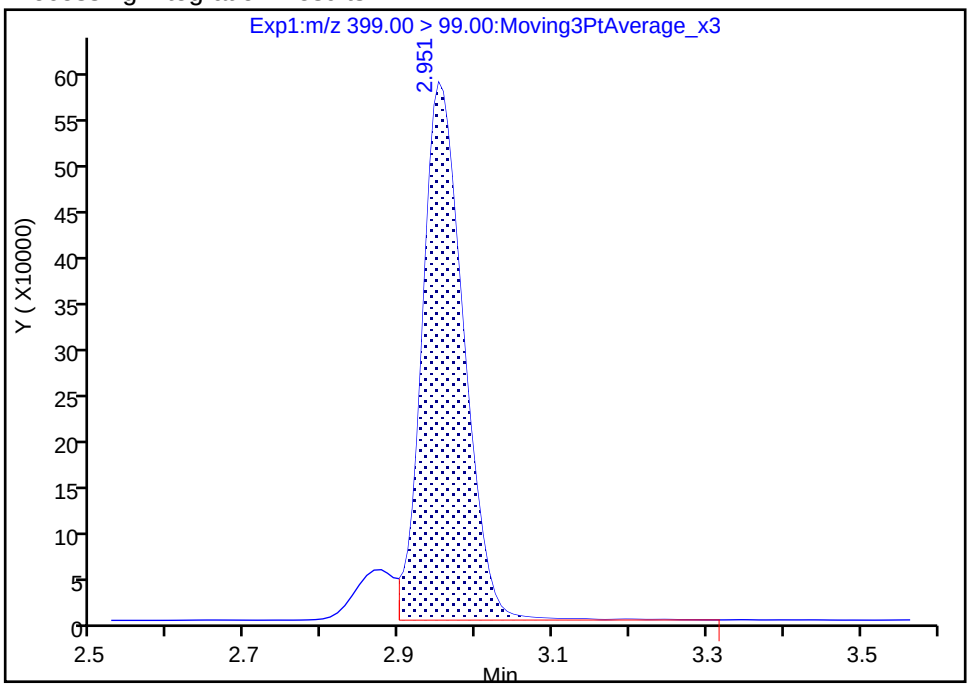
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_024.d
Injection Date: 10-Sep-2020 12:48:01 Instrument ID: A9
Lims ID: ICV
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 18 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

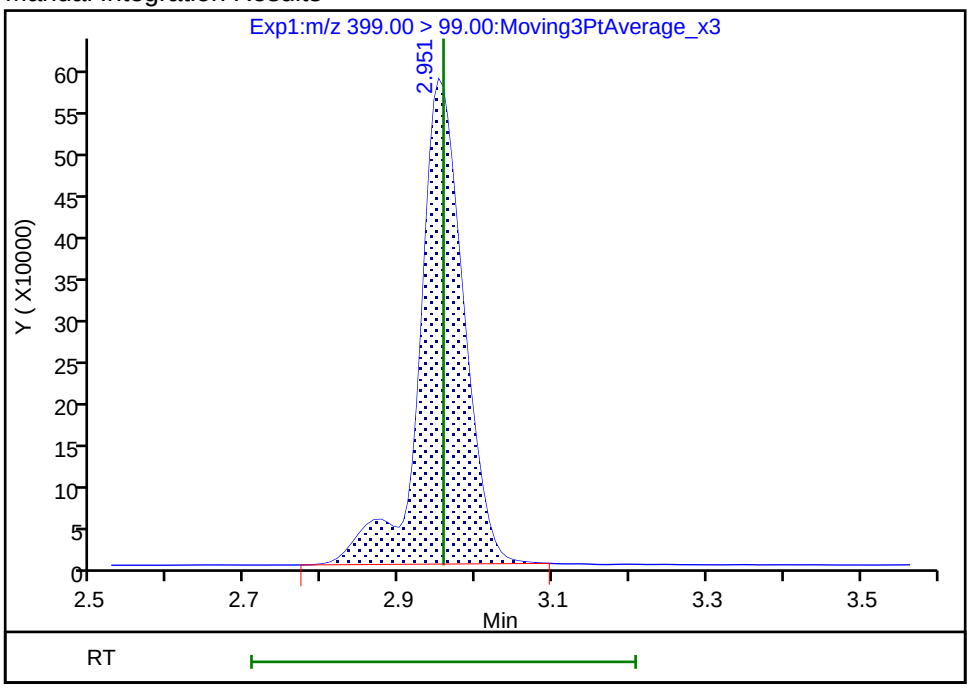
Processing Integration Results

RT: 2.95
Area: 2186000
Amount: 2.489727
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 2355056
Amount: 2.489727
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 13:25:44
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

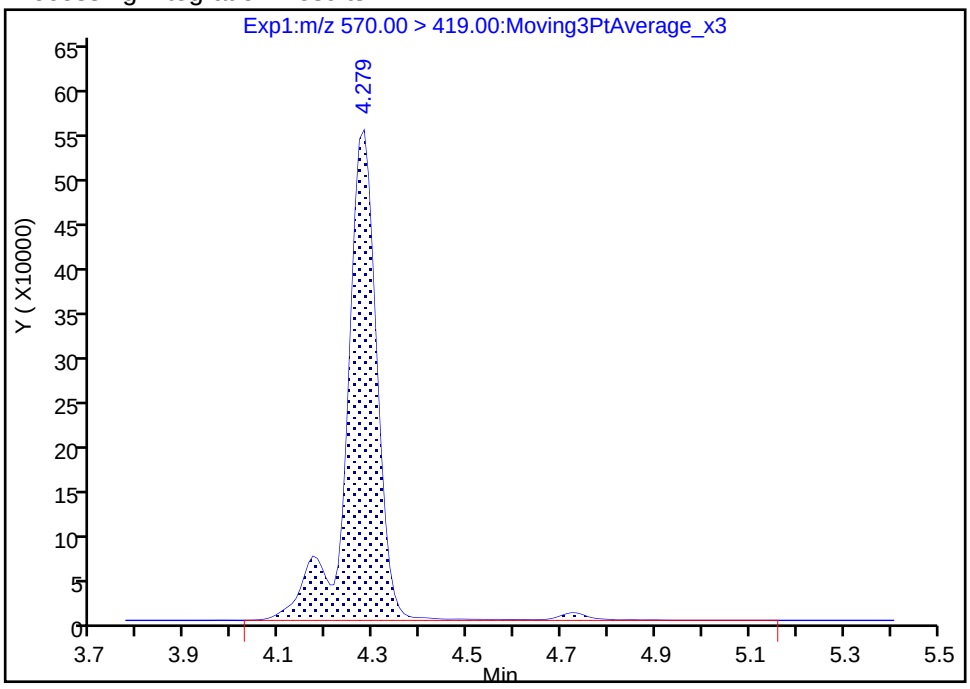
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_024.d				
Injection Date:	10-Sep-2020 12:48:01	Instrument ID:	A9		
Lims ID:	ICV				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	18	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

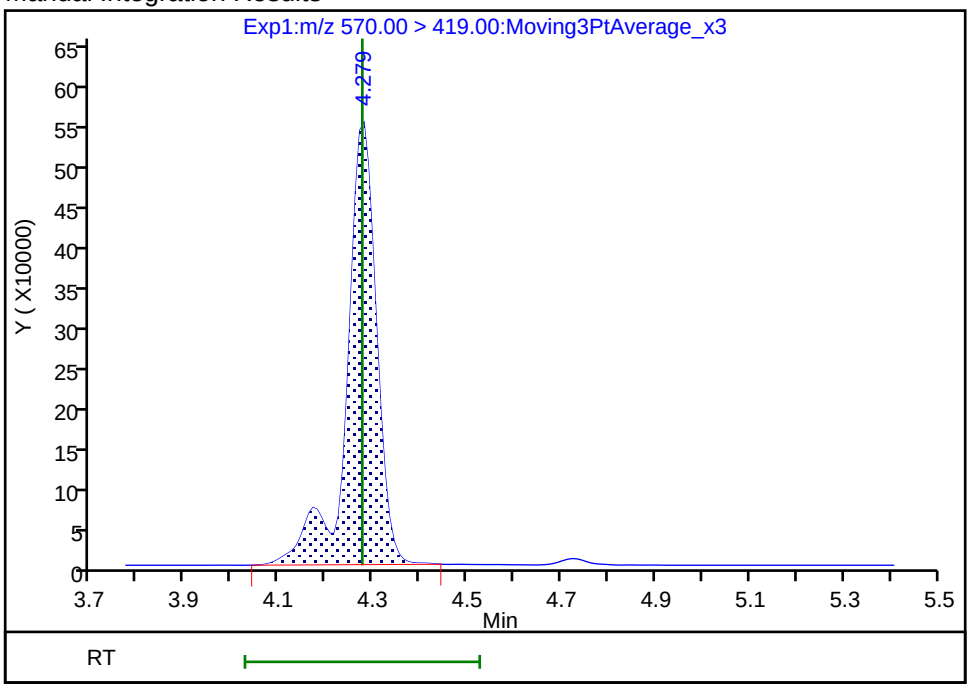
Processing Integration Results

RT: 4.28
Area: 2497257
Amount: 2.629139
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 2435453
Amount: 2.564071
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 13:26:48
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVL 320-411300/2 Calibration Date: 09/11/2020 09:40

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8734	0.8208		0.0470	0.0500	-6.0	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.018	1.171		0.0575	0.0500	15.0	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.998	0.9541		0.0423	0.0442	-4.4	50.0
4:2 FTS	AveID	1.978	1.926		0.455	0.467	-2.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8343	0.7594		0.0455	0.0500	-9.0	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.4016	0.3842		0.0449	0.0469	-4.3	50.0
HFPO-DA (GenX)	AveID	0.3959	0.3662		0.0463	0.0500	-7.5	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.109	1.013		0.0457	0.0500	-8.7	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.180	1.056		0.0407	0.0455	-10.5	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.813	1.616		0.0420	0.0471	-10.9	50.0
6:2 FTS	AveID	1.542	1.555		0.478	0.474	0.9	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.9244	0.8488		0.0437	0.0476	-8.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.078	1.055		0.0489	0.0500	-2.1	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.040	0.9527		0.0425	0.0464	-8.4	50.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.033		0.0519	0.0500	3.8	50.0
F-53B Major	AveID	0.6274	0.5593		0.0415	0.0466	-10.9	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	2.782	2.853		0.0513	0.0500	2.6	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7591	0.7371		0.0466	0.0480	-2.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.998	0.9606		0.0481	0.0500	-3.7	50.0
8:2 FTS	AveID	1.288	1.054		0.392	0.479	-18.2	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7593	0.6511		0.429	0.500	-14.2	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8492	0.7967		0.0452	0.0482	-6.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6962	0.5896		0.0423	0.0500	-15.3	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8112	0.7368		0.454	0.500	-9.2	50.0
NMeFOSE	AveID	1.043	0.9399		0.0450	0.0500	-9.9	50.0
NMeFOSA	AveID	1.043	1.001		0.750	0.0500	-4.1	50.0
F-53B Minor	AveID	0.7398	0.5868		0.0374	0.0471	-20.7	50.0
NEtFOSE	AveID	0.9939	0.9014		0.0454	0.0500	-9.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9197	0.8822		0.0480	0.0500	-4.1	50.0
NEtFOSA	AveID	0.995	0.6909		1.00	0.0500	-30.6	50.0
10:2 FTS	AveID	0.8214	0.7633		0.0448	0.0482	-7.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.1269	0.1148		0.0438	0.0484	-9.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCVL 320-411300/2 Calibration Date: 09/11/2020 09:40

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.7267	0.6676		0.0459	0.0500	-8.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1764	0.1660		0.0470	0.0500	-5.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.263		0.0472	0.0500	-5.7	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7480	0.6906		0.0462	0.0500	-7.7	50.0
13C4 PFBA	Ave	1.350	1.431		2.65	2.50	6.0	50.0
13C5 PFPeA	Ave	1.138	1.218		2.67	2.50	7.0	50.0
13C3 PFBS	Ave	2.249	2.434		2.52	2.33	8.3	50.0
M2-4:2 FTS	Ave	0.2233	0.2114		2.21	2.34	-5.3	50.0
13C2 PFHxA	Ave	1.058	1.136		2.68	2.50	7.3	50.0
13C3 HFPO-DA	Ave	0.7264	0.7872		2.71	2.50	8.4	50.0
13C4 PFHpA	Ave	1.030	1.135		2.76	2.50	10.2	50.0
18O2 PFHxS	Ave	1.076	1.219		2.68	2.37	13.3	50.0
M2-6:2 FTS	Ave	0.1925	0.1786		2.20	2.38	-7.2	50.0
13C4 PFOA	Ave	0.9654	1.023		2.65	2.50	6.0	50.0
13C4 PFOS	Ave	1.123	1.264		2.69	2.39	12.6	50.0
13C5 PFNA	Ave	0.8376	0.9001		2.69	2.50	7.5	50.0
13C8 FOSA	Ave	0.5280	0.5477		2.59	2.50	3.7	50.0
13C2 PFDA	Ave	1.063	1.186		2.79	2.50	11.6	50.0
M2-8:2 FTS	Ave	0.2357	0.2255		2.29	2.40	-4.3	50.0
d3-NMeFOSAA	Ave	0.5286	0.4456		2.11	2.50	-15.7	50.0
13C2 PFUnA	Ave	0.8198	0.8904		2.72	2.50	8.6	50.0
d5-NEtFOSAA	Ave	0.3541	0.3564		2.52	2.50	0.7	50.0
d7-N-MeFOSE-M	Ave	0.1700	0.1687		12.4	12.5	-0.8	50.0
d-N-MeFOSA-M	Ave	0.2378	0.2483		2.61	2.50	4.4	50.0
d9-N-EtFOSE-M	Ave	0.1785	0.1865		13.1	12.5	4.5	50.0
13C2 PFDoA	Ave	0.8051	0.8536		2.65	2.50	6.0	50.0
d-N-EtFOSA-M	Ave	0.2469	0.2693		2.73	2.50	9.1	50.0
13C2 PFTeDA	Ave	0.5615	0.5739		2.56	2.50	2.2	50.0
13C2 PFHxDA	Ave	0.4152	0.4195		2.53	2.50	1.0	50.0
13C8 PFOA	Ave	0.8088	0.8130		2.46	2.45	0.5	50.0
13C8 PFOS	Ave	0.2542	0.2488		2.34	2.39	-2.1	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 11-Sep-2020 09:40:01 ALS Bottle#: 42 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL (26)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:29:55 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 10:25:24
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.908	1.900	0.008	0.566	8188506	2.65		106	3024	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.908	1.900	0.008	1.000	134420	0.0470		94.0	7.8	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.215	2.206	0.009	0.657	6970155	2.67		107	3386	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.215	2.206	0.009	1.000	163191	0.0575		115	10.7	
D 6 13C3 PFBS										
301.90 > 80.00	2.243	2.233	0.010	0.666	12959767	2.52		108	4025	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.243	2.243	0.0	1.000	235066	0.0423	Target=3.10	95.6	20.9	M
298.90 > 99.00	2.243	2.243	0.0	1.000	75174		3.13(1.55-4.65)		16.7	M
D 8 M2-4:2 FTS										
329.00 > 81.00	2.536	2.525	0.011	0.753	1130383	2.21		94.7	678	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.536	2.525	0.011	1.000	435435	0.4547		97.4	3399	
D 10 13C2 PFHxA										
315.00 > 270.00	2.568	2.568	0.0	0.762	6502592	2.68		107	3112	
11 Perfluorohexanoic acid										M
313.00 > 269.00	2.579	2.568	0.011	1.004	98765	0.0455	Target=9.68	91.0	12.4	
313.00 > 119.00	2.568	2.568	0.0	1.000	10792		9.15(4.84-14.52)		8.5	M
12 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.590	2.578	0.012	1.154	100442	0.0449	Target=2.01	95.7	37.4	
349.00 > 99.00	2.590	2.578	0.012	1.154	43423		2.31(1.00-3.01)		43.1	M
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.696	2.686	0.010	0.800	4506100	2.71		108	3902	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.696	2.686	0.010	1.000	33003	0.0463		92.5	225	
D 15 13C4 PFHpA										
367.00 > 322.00	2.969	2.957	0.012	0.881	6498375	2.76		110	4006	
18 Perfluoroheptanoic acid										M
363.00 > 319.00	2.963	2.963	0.0	0.998	131631	0.0457	Target=3.74	91.3	21.5	M
363.00 > 169.00	2.963	2.963	0.0	0.998	37925		3.47(1.87-5.61)		43.7	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.969	2.963	0.006	1.000	134099	0.0407	Target=3.29	89.5	40.4	M
399.00 > 99.00	2.969	2.963	0.006	1.000	40850		3.28(1.65-4.94)		33.6	M
D 17 18O2 PFHxS										
403.00 > 84.00	2.969	2.963	0.006	0.881	6602307	2.68		113	3564	
19 DONA										
377.00 > 251.00	3.018	3.009	0.009	0.804	220304	0.0420	Target=1.80	89.1	620	
377.00 > 85.00	3.018	3.009	0.009	0.804	120556		1.83(0.90-2.70)		239	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.354	3.345	0.009	0.995	971364	2.20		92.8	883	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.354	3.345	0.009	1.000	301447	0.4781		101	480	
$ 21 13C8 PFOA										
421.00 > 376.00	3.362	3.361	0.001	0.997	4555974	2.46		101	4762	
23 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.370	3.361	0.009	0.897	116925	0.0437	Target=3.65	91.8	48.8	M
449.00 > 99.00	3.370	3.361	0.009	0.897	31492		3.71(1.83-5.48)		77.9	
24 Perfluorooctanoic acid										M
413.00 > 369.00	3.370	3.368	0.002	1.000	123671	0.0489	Target=2.37	97.9	27.0	M
413.00 > 169.00	3.379	3.368	0.011	1.003	57467		2.15(1.19-3.56)		80.4	
* 25 13C2 PFOA										
415.00 > 370.00	3.370	3.368	0.002		5724089	2.50			3884	
D 26 13C4 PFOA										
417.00 > 372.00	3.370	3.368	0.002	1.000	5858484	2.65		106	4747	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.756	3.744	0.012	1.000	127930	0.0425	Target=4.12	91.6	24.3	M
499.00 > 99.00	3.747	3.744	0.003	0.998	32253		3.97(2.06-6.17)		103	
D 31 13C4 PFOS										
503.00 > 80.00	3.756	3.744	0.012	1.114	6916858	2.69		113	2104	
$ 27 13C8 PFOS										
507.00 > 99.00	3.747	3.744	0.003	1.112	1361306	2.34		97.9	1693	
D 29 13C5 PFNA										
468.00 > 423.00	3.765	3.754	0.011	1.117	5152452	2.69		107	5045	
30 Perfluorononanoic acid										M
463.00 > 419.00	3.765	3.763	0.002	1.000	106478	0.0519	Target=4.21	104	71.1	
463.00 > 169.00	3.774	3.763	0.011	1.002	21240		5.01(2.11-6.32)		46.9	M
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.959	3.947	0.012	1.054	75430	0.0415		89.1	213	
D 36 13C8 FOSA										
506.00 > 78.00	4.087	4.083	0.004	1.213	3135026	2.59		104	3315	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.087	4.083	0.004	1.000	178910	0.0513		103	497	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.104	4.092	0.012	1.093	102396	0.0466	Target=5.56	97.1	78.2	
549.00 > 99.00	4.104	4.092	0.012	1.093	17019		6.02(2.78-8.34)		129	
D 33 13C2 PFDA										
515.00 > 470.00	4.122	4.118	0.004	1.223	6791146	2.79		112	6291	
38 Perfluorodecanoic acid										M
513.00 > 469.00	4.122	4.118	0.004	1.000	130478	0.0481	Target=14.33	96.3	93.4	M
513.00 > 169.00	4.140	4.118	0.022	1.004	10076		12.95(7.16-21.49)		41.6	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.131	4.118	0.013	1.000	260727	0.3920		81.8	3672	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.131	4.127	0.004	1.226	1236460	2.29		95.7	1477	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.293	4.280	0.013	1.274	2550626	2.11		84.3	2171	
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.293	4.289	0.004	1.000	332138	0.4288		85.8	89.9	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.422	4.418	0.004	1.177	111136	0.0452	Target=4.29	93.8	61.1	
599.00 > 99.00	4.431	4.418	0.013	1.180	26966		4.12(2.15-6.44)		143	
D 46 13C2 PFUnA										
565.00 > 520.00	4.448	4.444	0.004	1.320	5096747	2.72		109	6561	
43 Perfluoroundecanoic acid										M
563.00 > 519.00	4.448	4.444	0.004	1.000	60103	0.0423	Target=6.74	84.7	69.8	M
563.00 > 169.00	4.448	4.444	0.004	1.000	8779		6.85(3.37-10.11)		46.9	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.456	4.452	0.004	1.322	2040282	2.52		101	2468	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.465	4.452	0.013	1.002	300676	0.4542		90.8	1802	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.551	4.538	0.013	1.350	4827248	12.4		99.2	4269	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.559	4.555	0.004	1.002	18149	0.0450		90.1	48.2	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.568	4.564	0.004	1.355	1421344	2.61		104	238	
50 NMeFOSA										
512.00 > 169.00	4.568	4.564	0.004	1.000	28450	0.0480		95.9	117	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.586	4.582	0.004	1.221	79992	0.0374		79.3	472	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.717	4.713	0.004	1.400	5337944	13.1		104	4868	
D 56 13C2 PFDoA										
615.00 > 570.00	4.745	4.732	0.013	1.408	4886112	2.65		106	9245	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.736	4.732	0.004	1.004	19247	0.0454		90.7	40.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
52 Perfluorododecanoic acid										
613.00 > 569.00	4.745	4.732	0.013	1.000	86210	0.0480	Target=6.67	95.9	130	
613.00 > 169.00	4.745	4.732	0.013	1.000	14549		5.93(3.34-10.01)		77.3	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.745	4.741	0.004	1.408	1541528	2.73		109	1083	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.752	4.748	0.004	1.002	21301	0.0347		69.4	55.2	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.760	4.756	0.004	1.152	18993	0.0448		92.9	191	
59 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.973	4.969	0.004	1.324	16086	0.0438	Target=1.02	90.5	29.7	
699.00 > 99.00	4.973	4.969	0.004	1.324	15536		1.04(0.51-1.53)		86.1	M
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.006	5.003	0.004	1.055	65242	0.0459	Target=4.80	91.9	338	
663.00 > 169.00	5.006	5.003	0.004	1.055	13409		4.87(2.40-7.20)		155	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.256	5.253	0.003	1.560	3284887	2.56		102	6270	
61 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.256	5.253	0.003	1.000	10905	0.0470	Target=1.37	94.1	121	
713.00 > 219.00	5.256	5.253	0.003	1.000	6875		1.59(0.69-2.06)		37.3	M
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.702	5.690	0.012	1.000	60664	0.0472	Target=4.63	94.3	164	
813.00 > 169.00	5.702	5.690	0.012	1.000	12245		4.95(2.32-6.95)		118	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.702	5.690	0.012	1.692	2401379	2.53		101	5304	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.129	6.120	0.009	1.075	33167	0.0462	Target=4.01	92.3	185	
913.00 > 169.00	6.129	6.120	0.009	1.075	7669		4.32(2.01-6.02)		91.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LLCCVL_00026 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 10:29:57 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d

Injection Date: 11-Sep-2020 09:40:01 Instrument ID: A9

Lims ID: CCVL

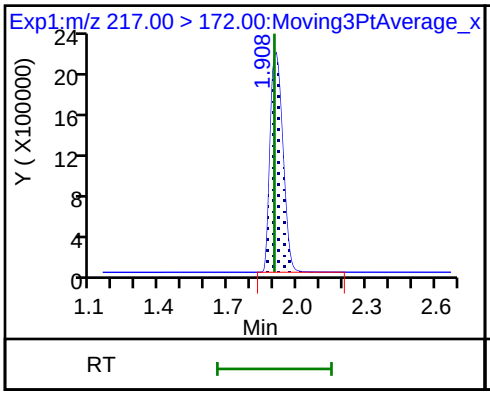
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 42 Worklist Smp#: 2

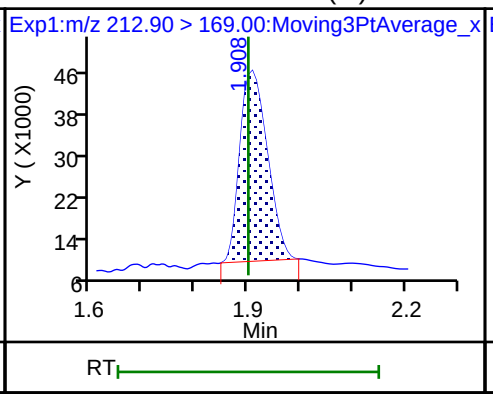
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

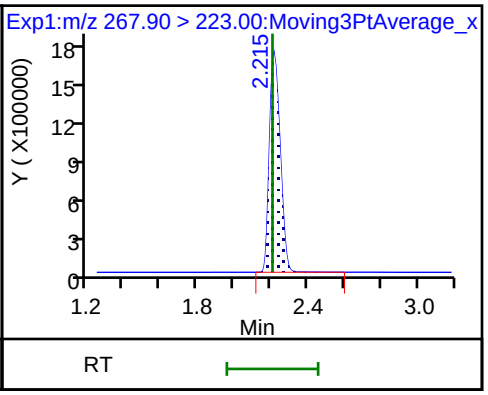
D 1 13C4 PFBA



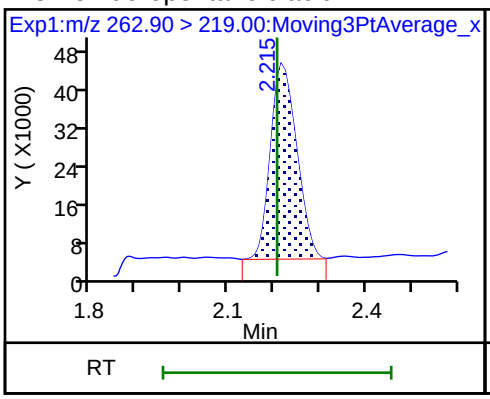
2 Perfluorobutanoic acid (M)



D 4 13C5 PFPeA



3 Perfluoropentanoic acid



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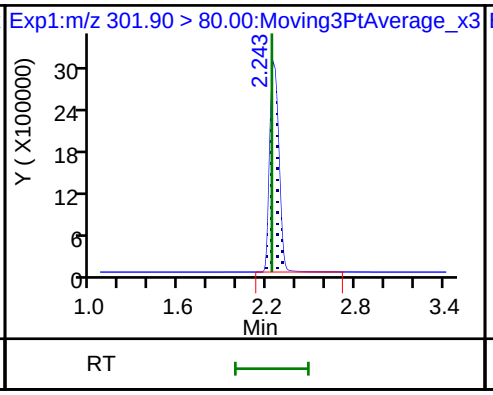
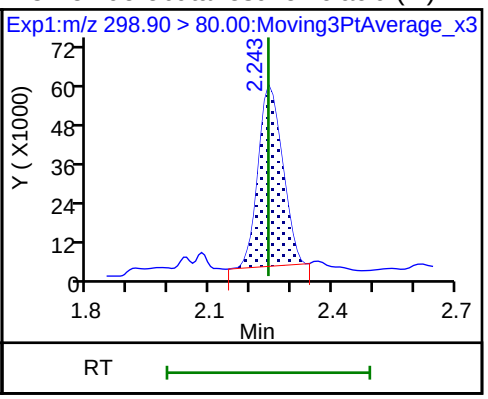


5 Perfluorobutanesulfonic acid (M)



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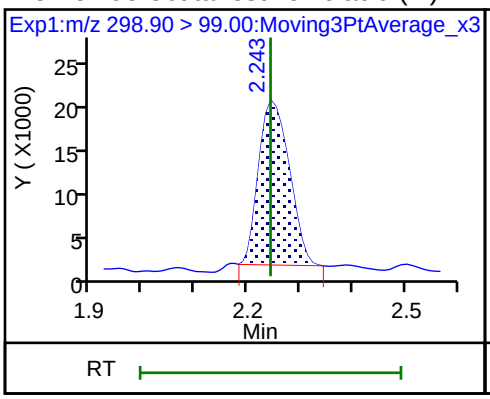
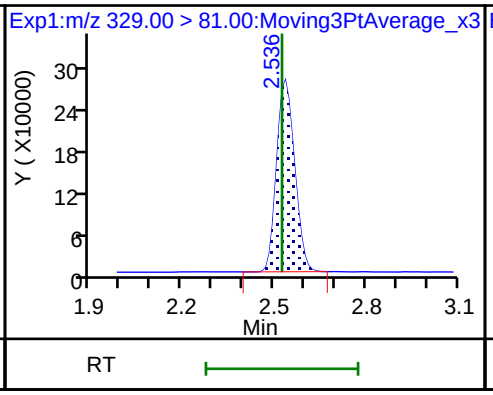
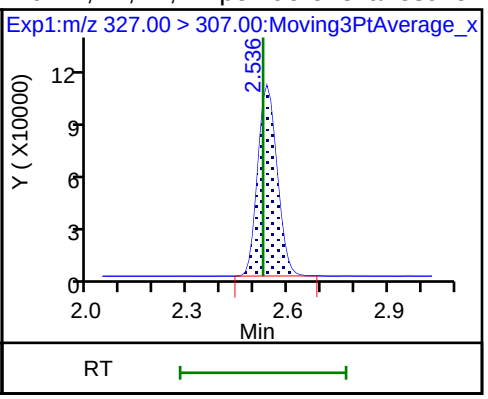


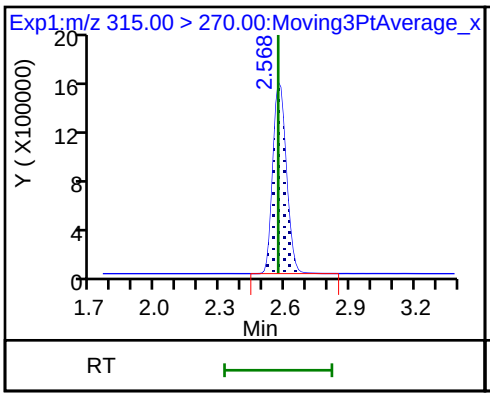
D 8 M2-4:2 FTS



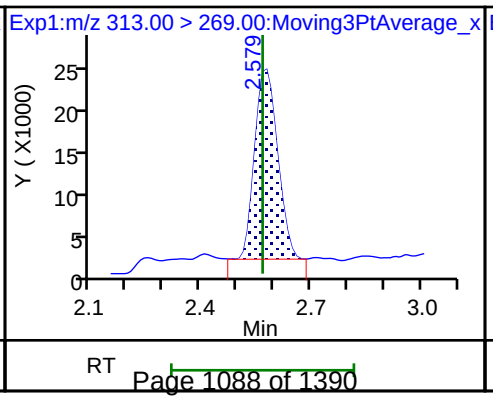
9 1H,1H,2H,2H-perfluorohexanesulfo



D 10 13C2 PFHxA



11 Perfluorohexanoic acid



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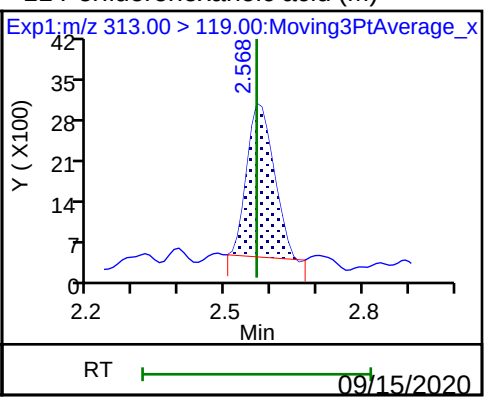
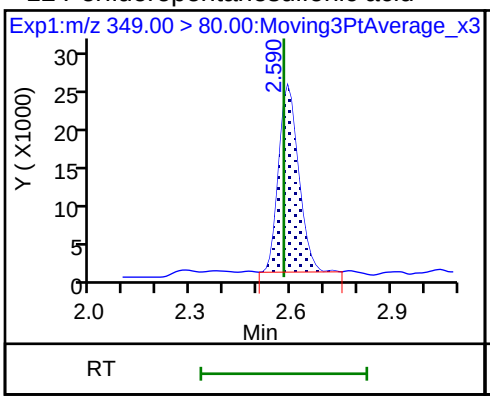


12 Perfluoropentanesulfonic acid



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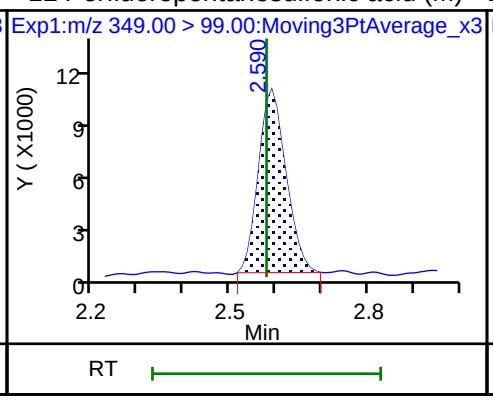
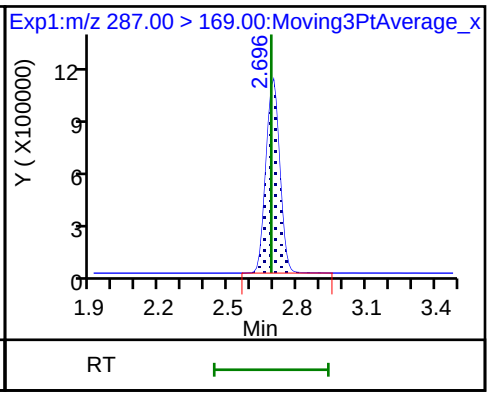
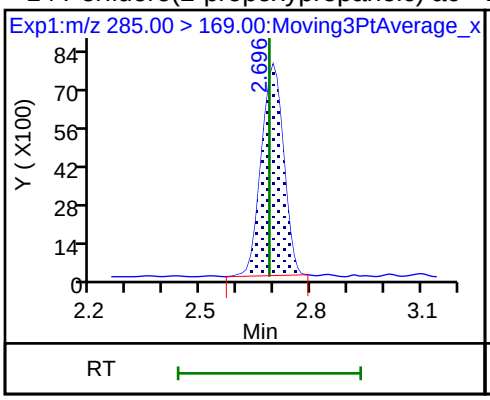


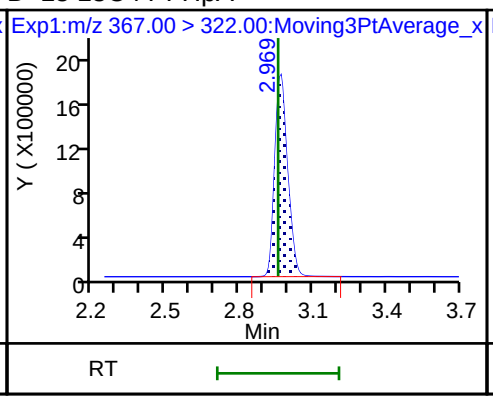
D 13 13C3 HFPO-DA



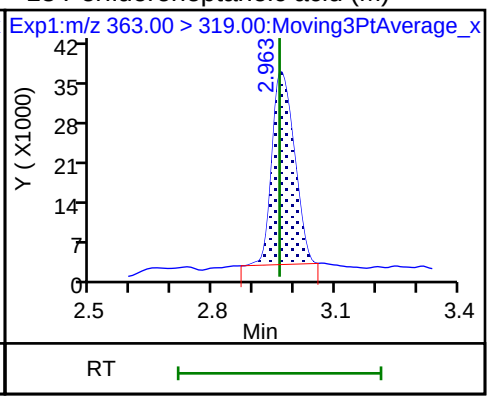
14 Perfluoro(2-propoxypropanoic) ac



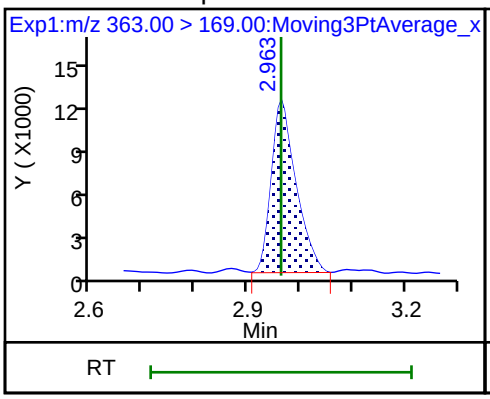
D 15 13C4 PFHpA



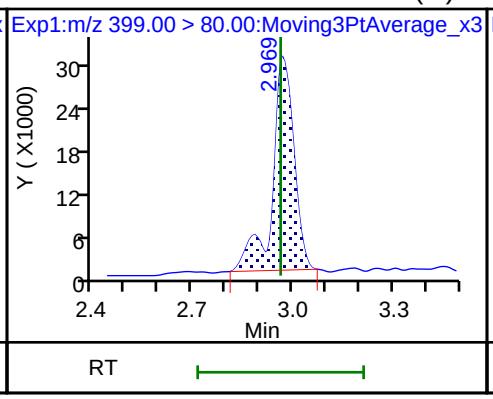
18 Perfluoroheptanoic acid (M)



18 Perfluoroheptanoic acid



16 Perfluorohexanesulfonic acid (M)



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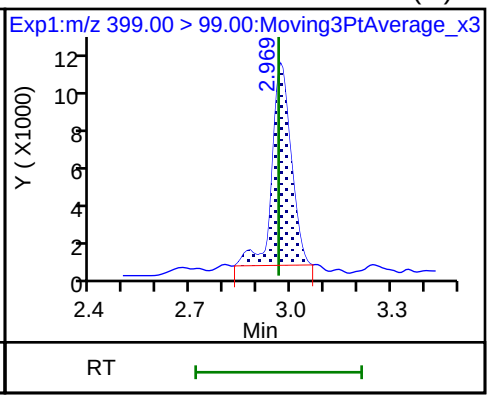
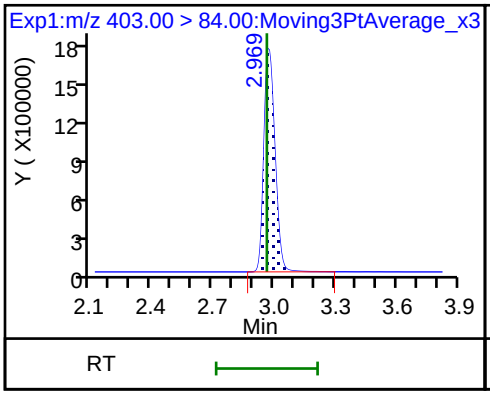
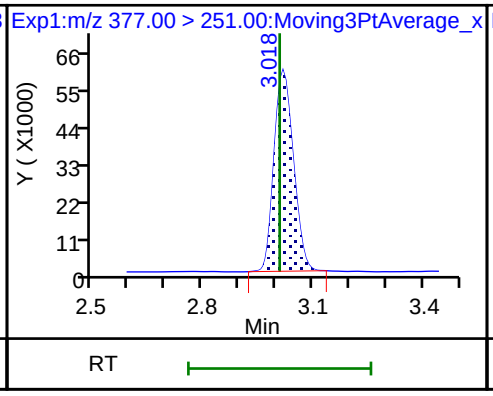


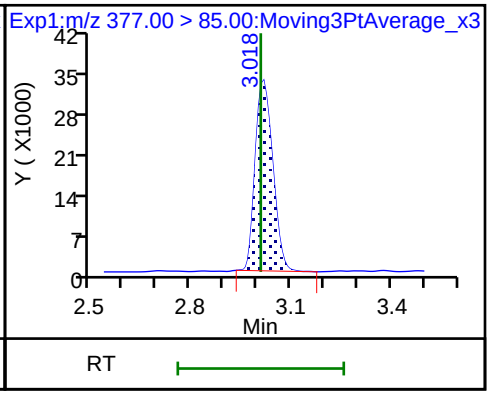
D 17 18O2 PFHxS



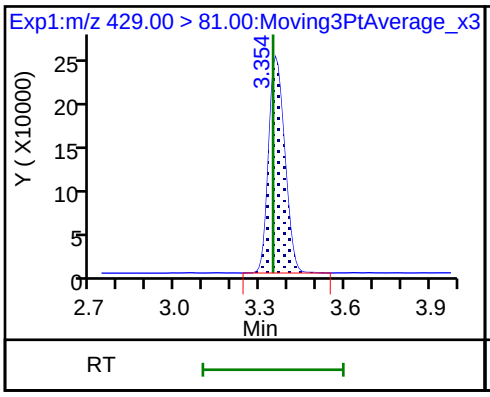
19 DONA



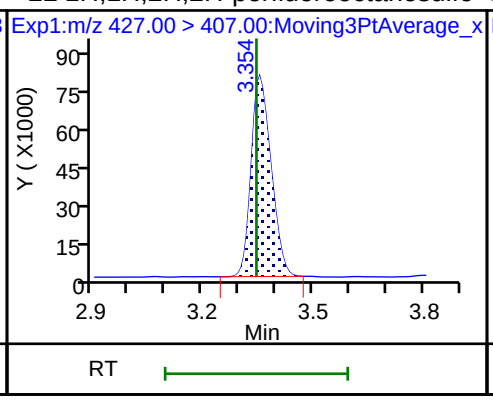
19 DONA



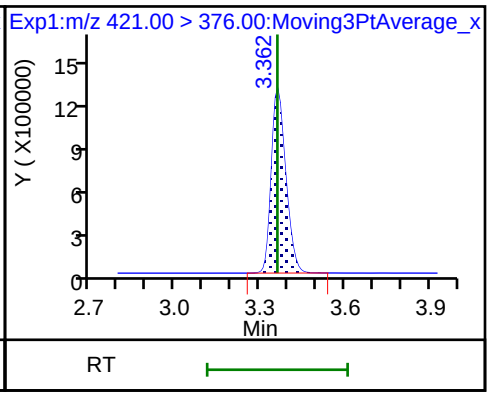
D 20 M2-6:2 FTS



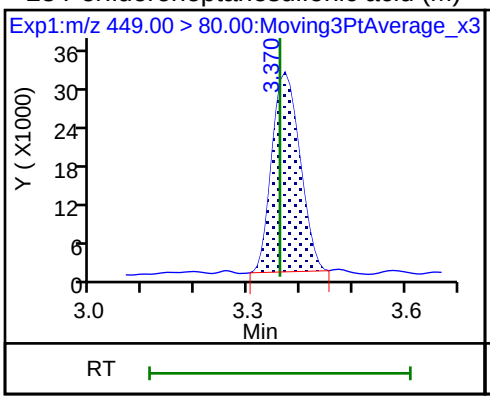
22 1H,1H,2H,2H-perfluorooctanesulfo



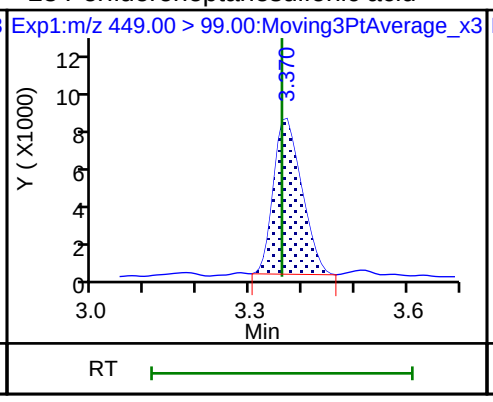
$ 21 13C8 PFOA



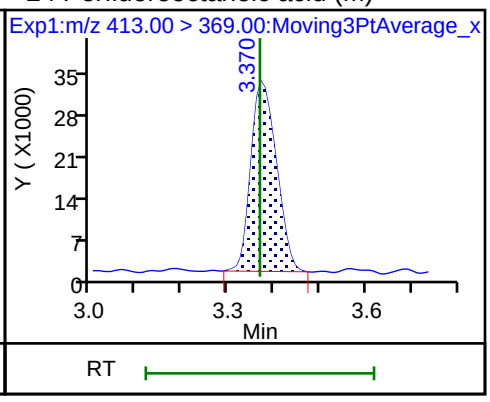
23 Perfluoroheptanesulfonic acid (M)



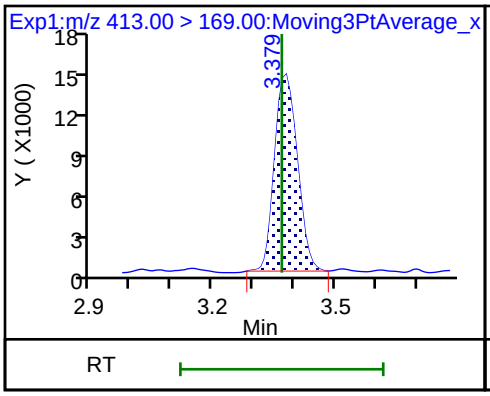
23 Perfluoroheptanesulfonic acid



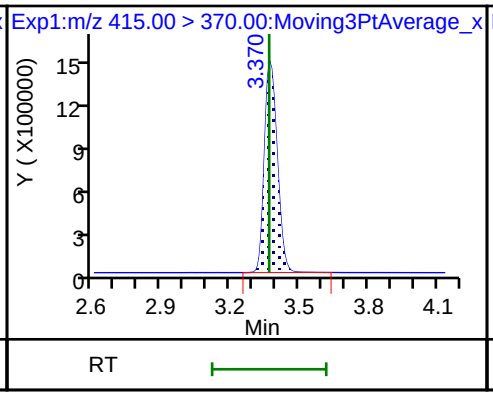
24 Perfluorooctanoic acid (M)



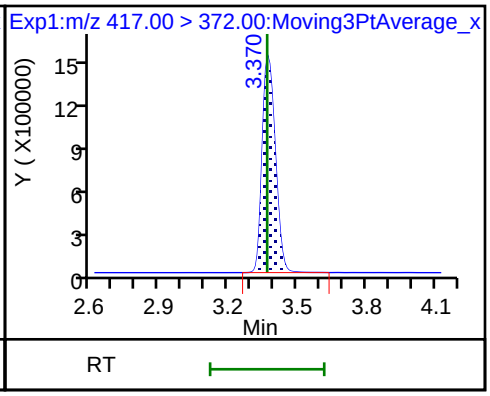
24 Perfluorooctanoic acid



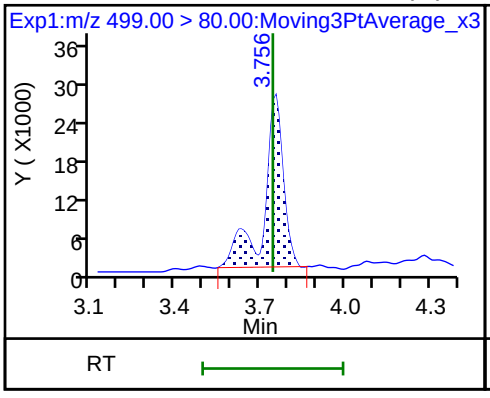
* 25 13C2 PFOA



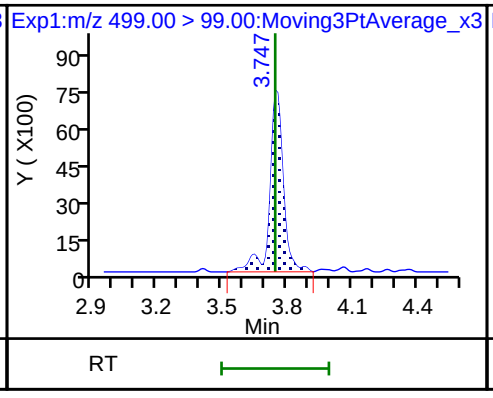
D 26 13C4 PFOA



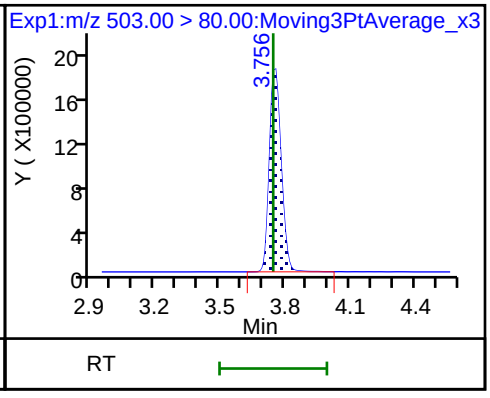
28 Perfluorooctanesulfonic acid (M)



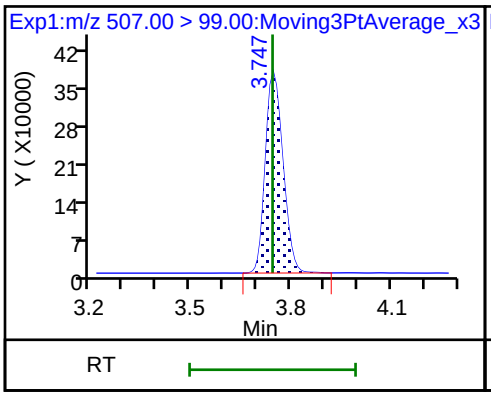
28 Perfluorooctanesulfonic acid



D 31 13C4 PFOS



$ 27 13C8 PFOS



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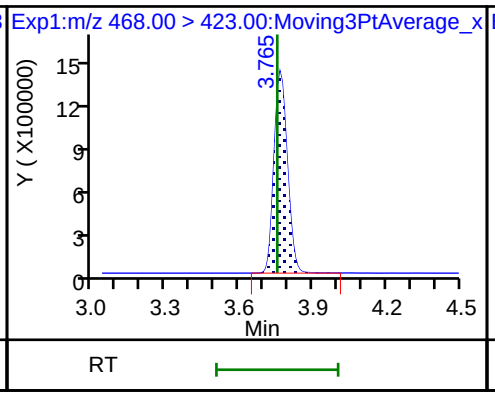
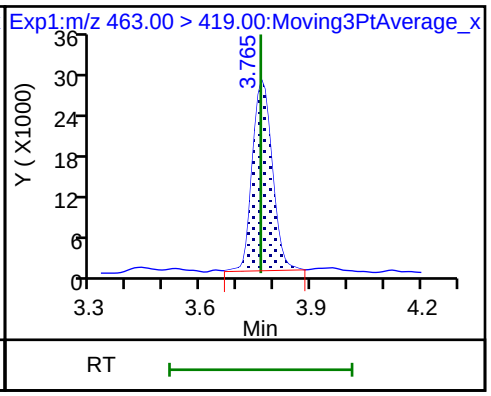


30 Perfluorononanoic acid



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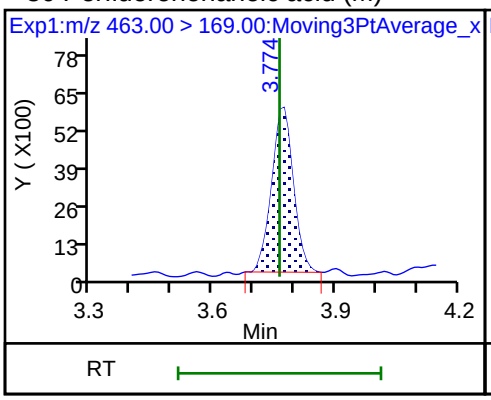
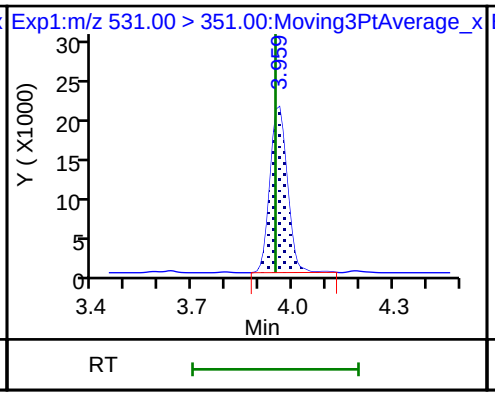
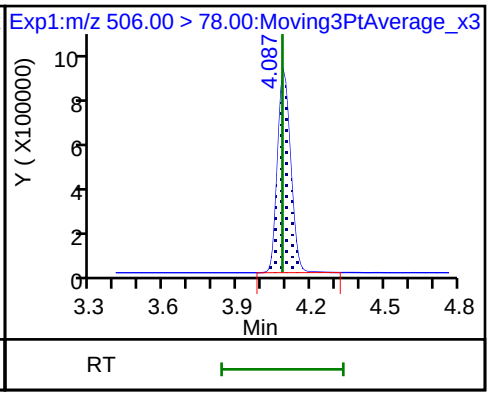


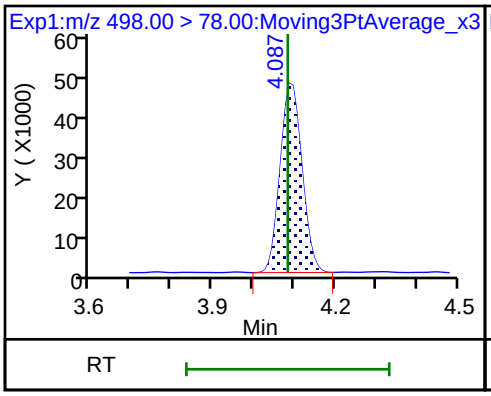
32 9-Chlorohexadecafluoro-3-oxanona



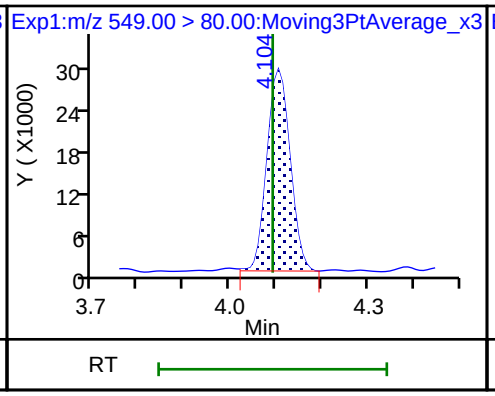
D 36 13C8 FOSA



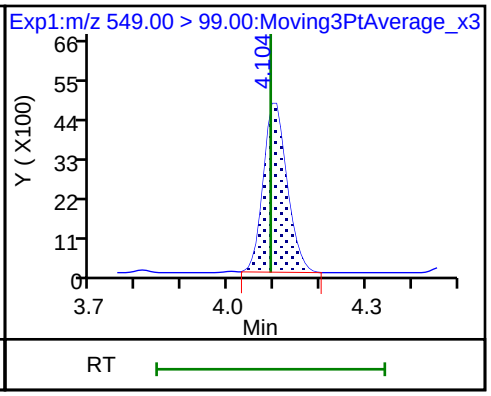
34 Perfluorooctanesulfonamide



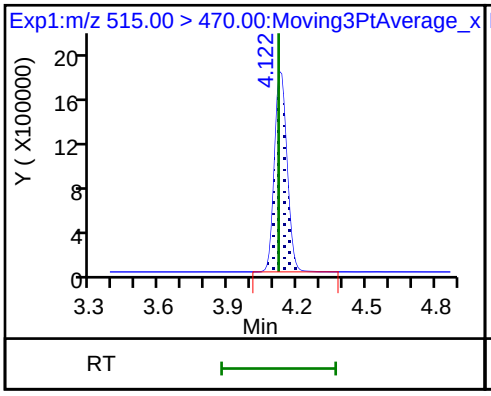
35 Perfluorononanesulfonic acid



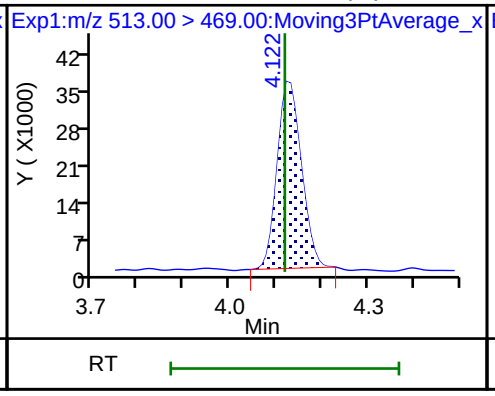
35 Perfluorononanesulfonic acid



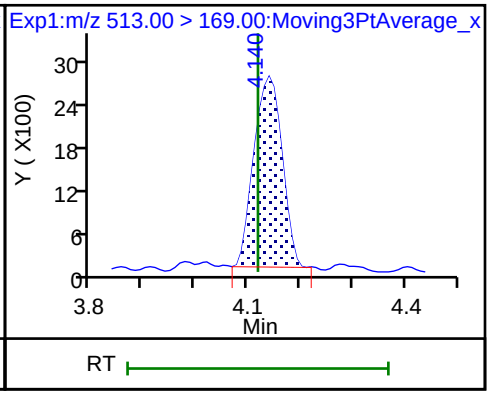
D 33 13C2 PFDA



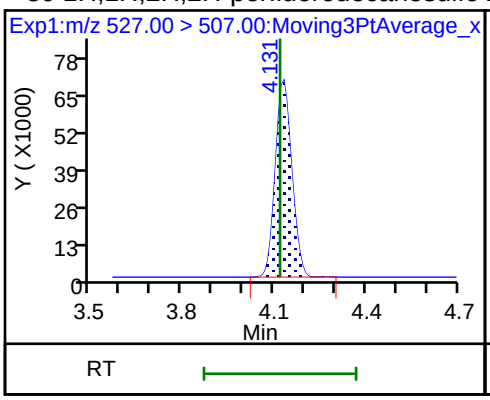
38 Perfluorodecanoic acid (M)



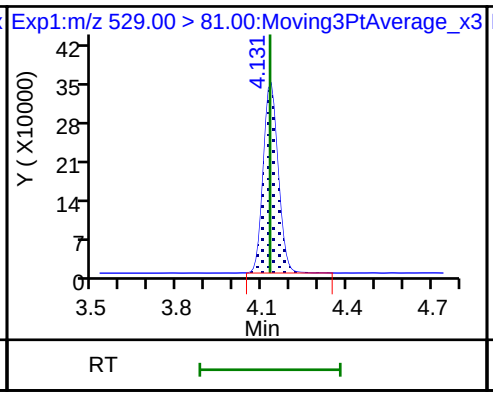
38 Perfluorodecanoic acid



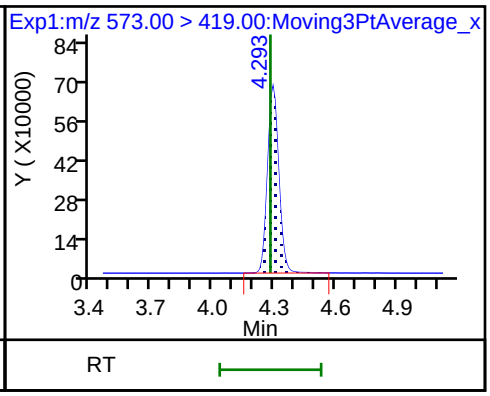
39 1H,1H,2H,2H-perfluorodecanesulfo



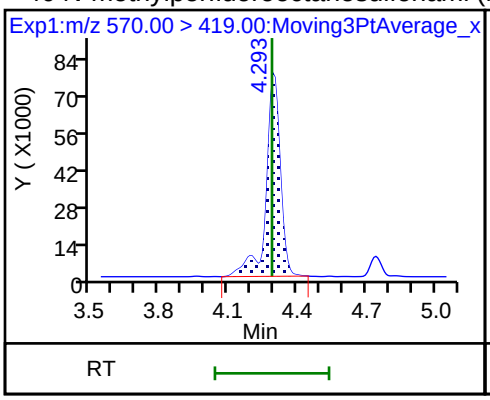
D 37 M2-8:2 FTS



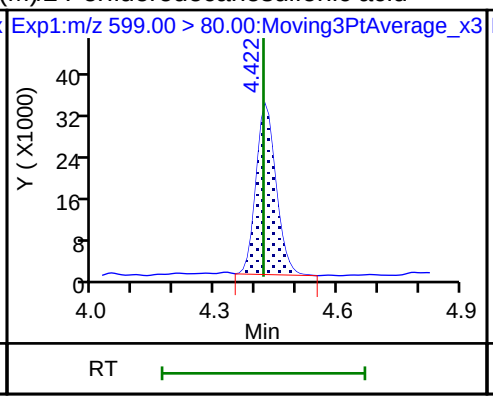
D 41 d3-NMeFOSAA



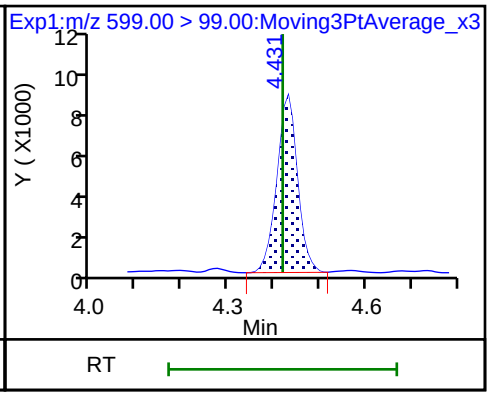
40 N-methylperfluorooctanesulfonami (M)



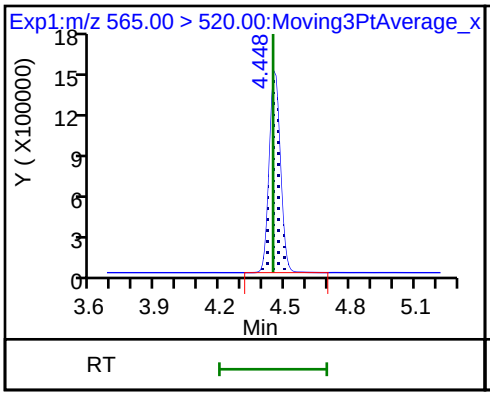
42 Perfluorodecanesulfonic acid



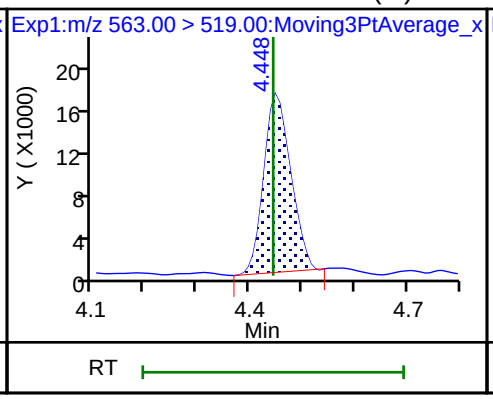
42 Perfluorodecanesulfonic acid



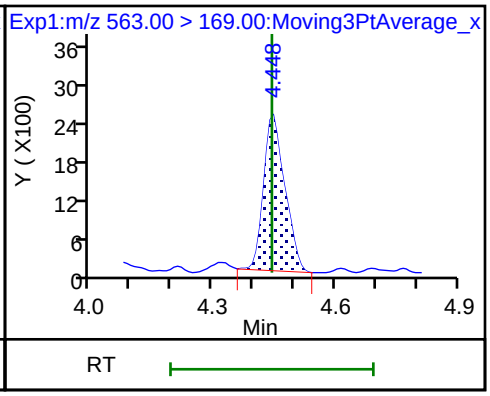
D 46 13C2 PFUnA



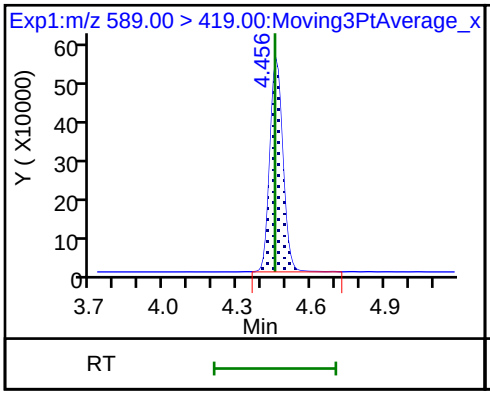
43 Perfluoroundecanoic acid (M)



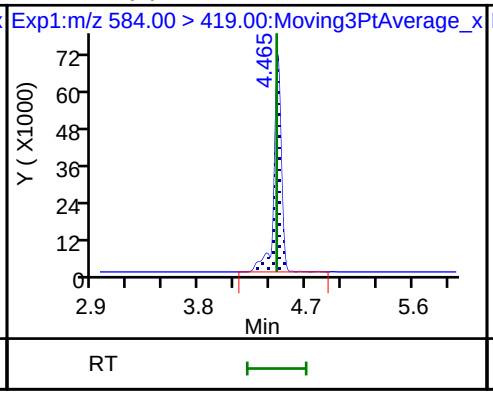
43 Perfluoroundecanoic acid



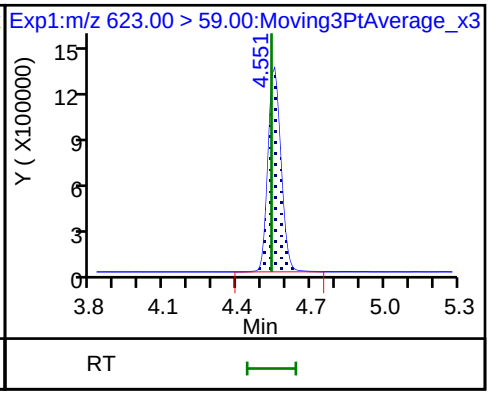
D 45 d5-NEtFOSAA



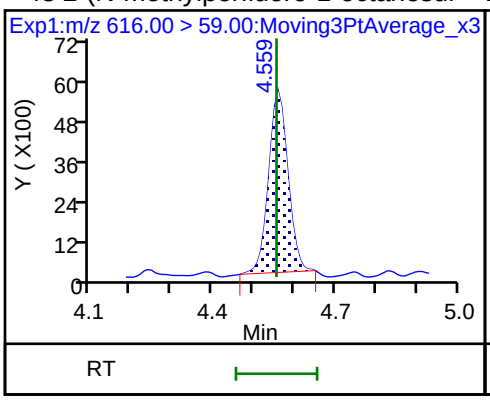
44 N-ethylperfluorooctanesulfonamid



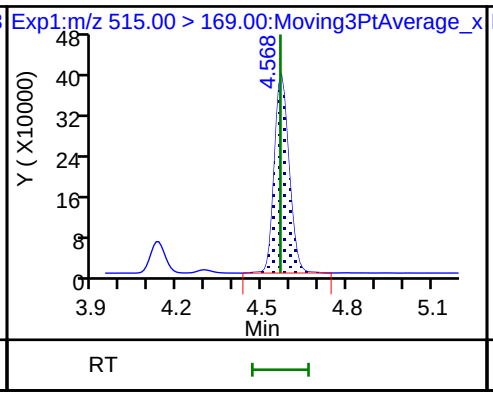
D 47 d7-N-MeFOSE-M



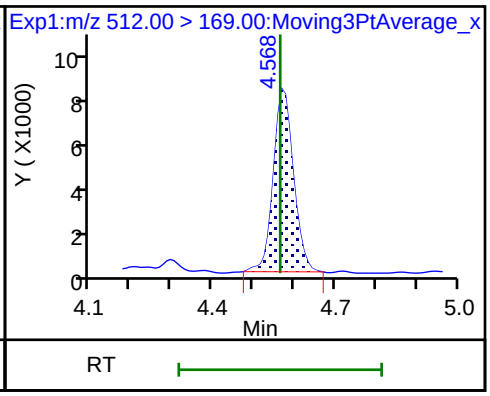
48 2-(N-methylperfluoro-1-octanesul



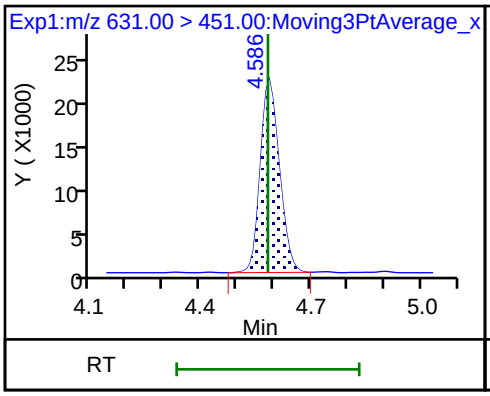
D 49 d-N-MeFOSA-M



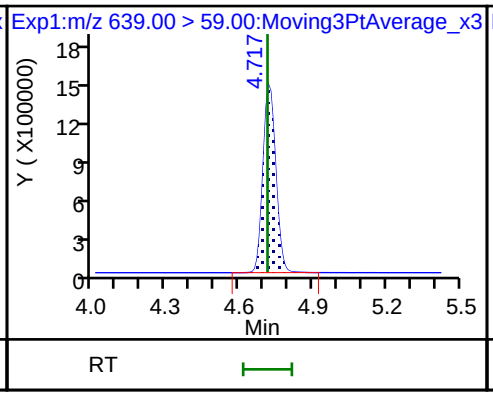
50 NMeFOSA



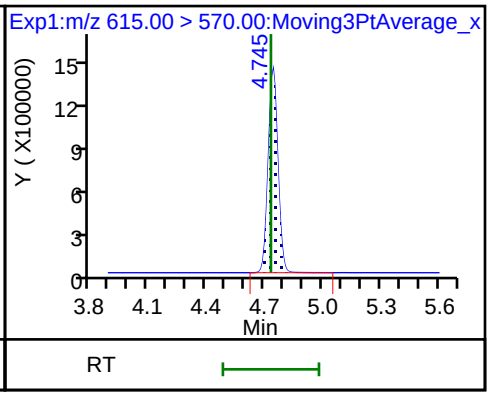
51 11-Chloroeicosafluoro-3-oxaundec



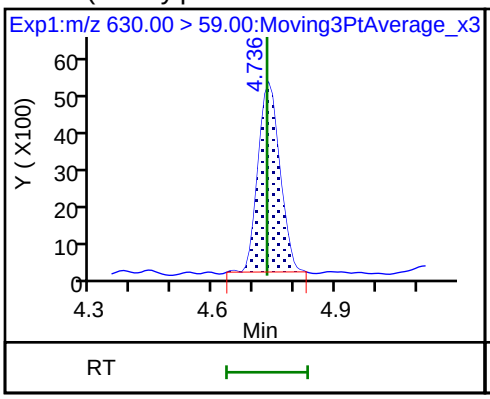
D 53 d9-N-EtFOSE-M



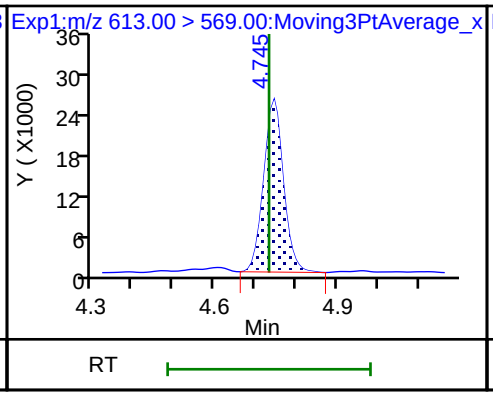
D 56 13C2 PFDoA



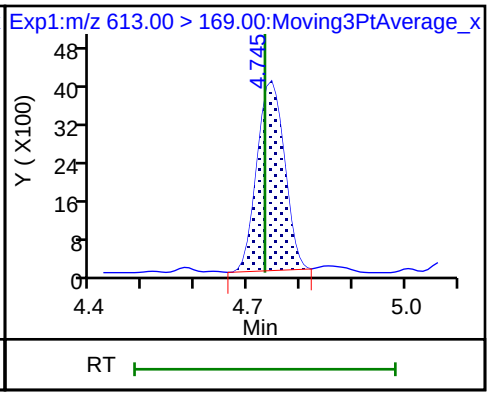
54 2-(N-ethylperfluoro-1-octanesulf



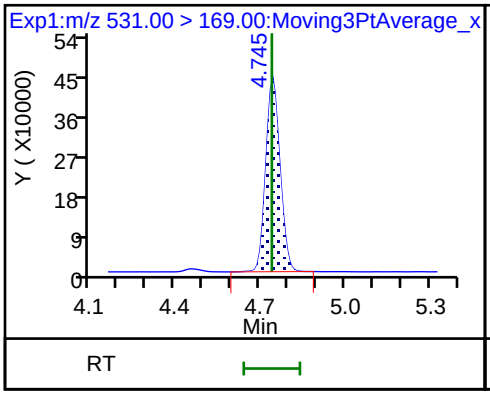
52 Perfluorododecanoic acid



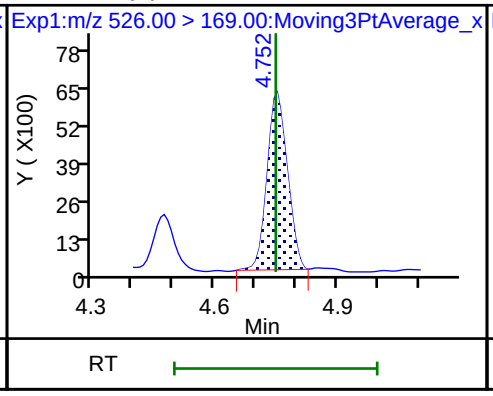
52 Perfluorododecanoic acid



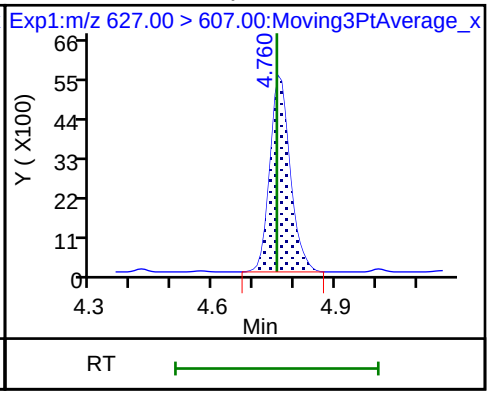
D 58 d-N-EtFOSA-M



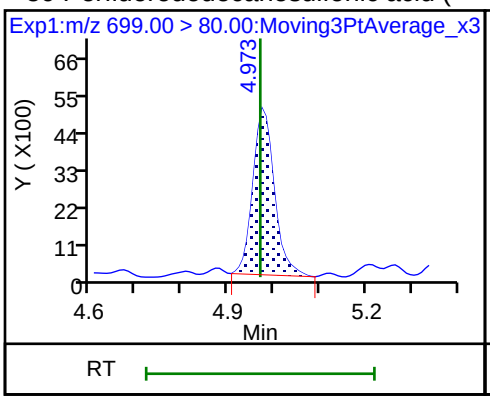
57 N-ethylperfluoro-1-octanesulfona



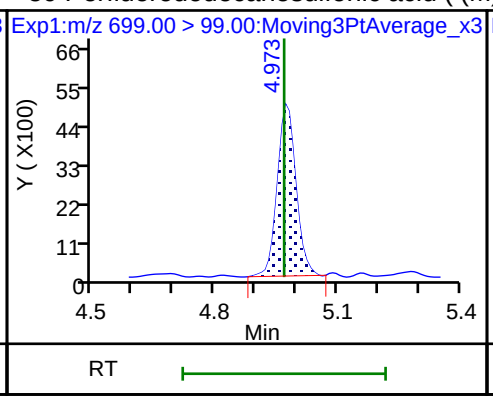
55 1H,1H,2H,2H-perfluorododecanesul



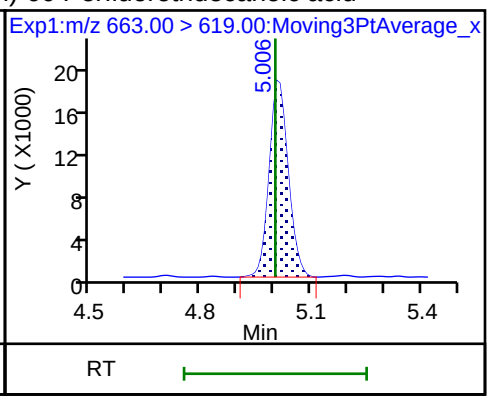
59 Perfluorododecanesulfonic acid (



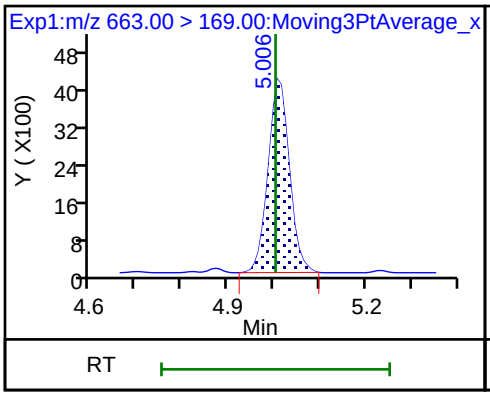
59 Perfluorododecanesulfonic acid ((M)



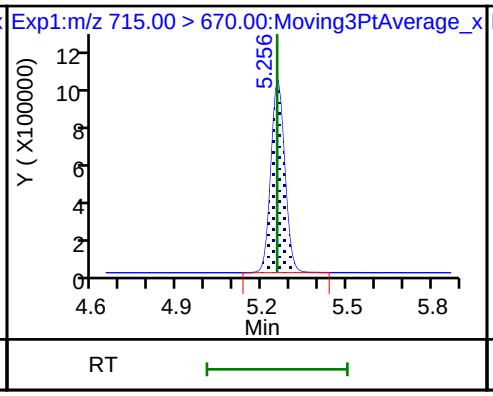
60 Perfluorotridecanoic acid



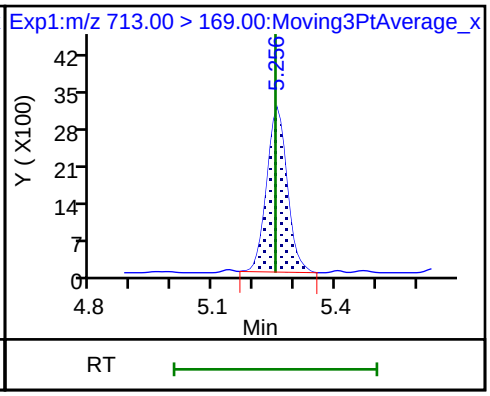
60 Perfluorotridecanoic acid



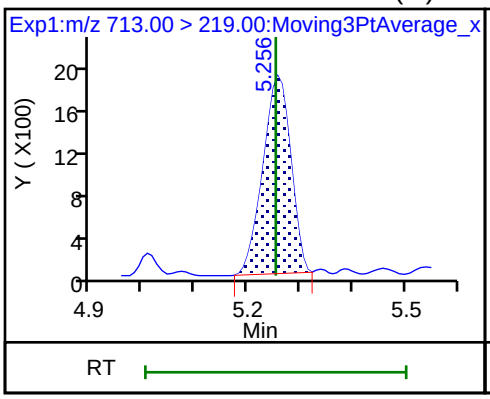
D 62 13C2 PFTeDA



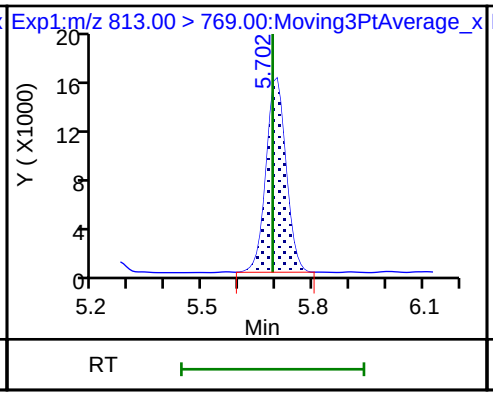
61 Perfluorotetradecanoic acid



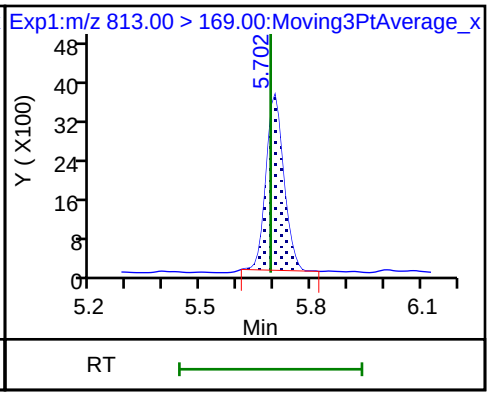
61 Perfluorotetradecanoic acid (M)



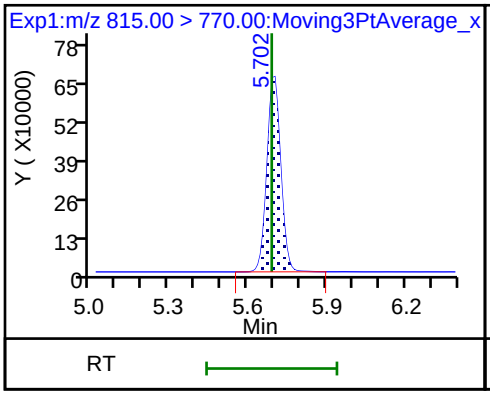
64 Perfluorohexadecanoic acid



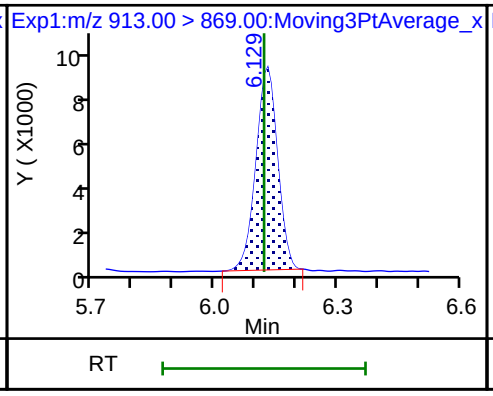
64 Perfluorohexadecanoic acid



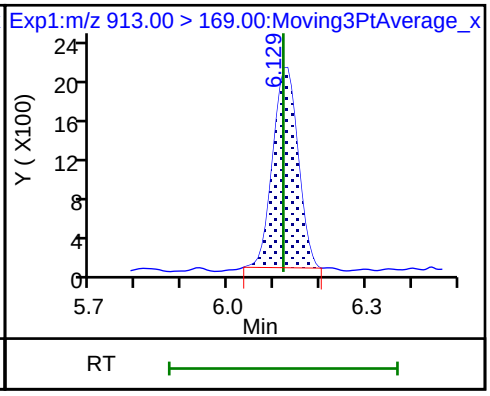
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

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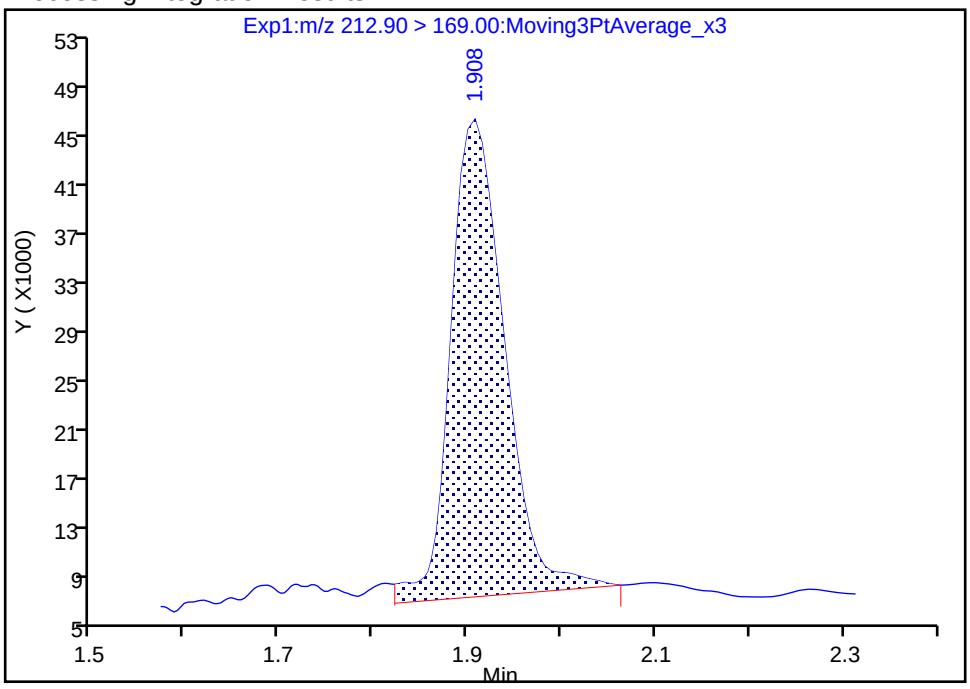
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

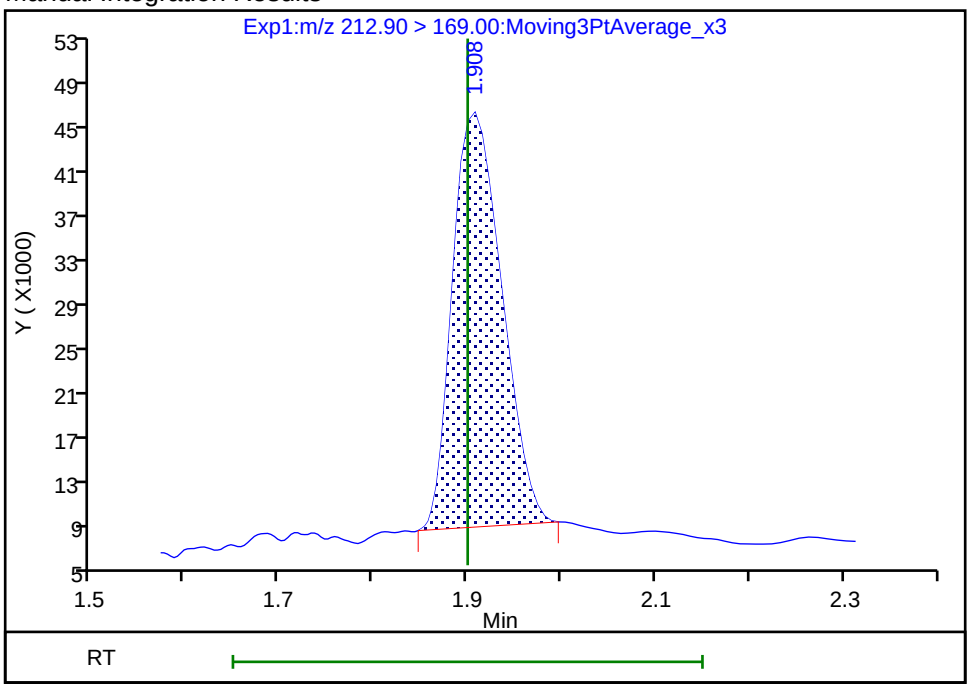
Processing Integration Results

RT: 1.91
Area: 153008
Amount: 0.053484
Amount Units: ng/ml



Manual Integration Results

RT: 1.91
Area: 134420
Amount: 0.046986
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:10:48
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

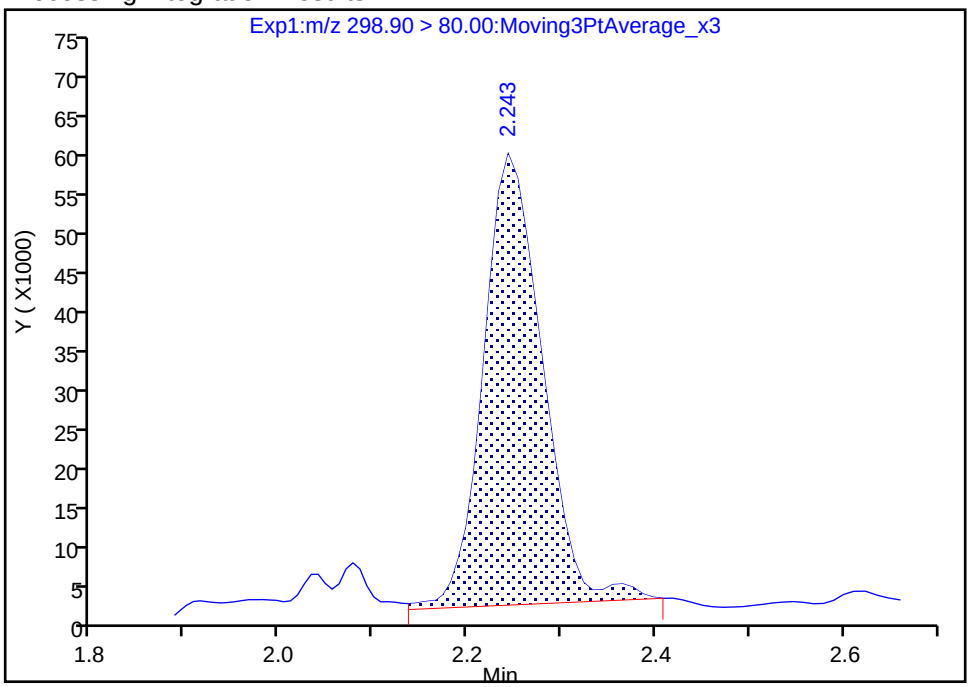
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

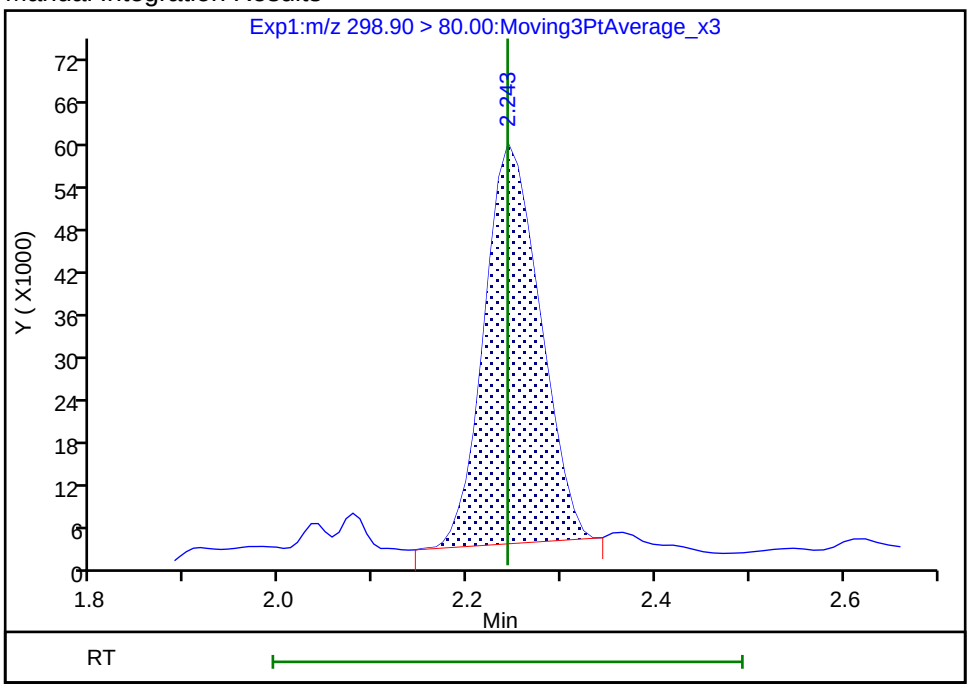
Processing Integration Results

RT: 2.24
Area: 253208
Amount: 0.045533
Amount Units: ng/ml



Manual Integration Results

RT: 2.24
Area: 235066
Amount: 0.042270
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:21:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

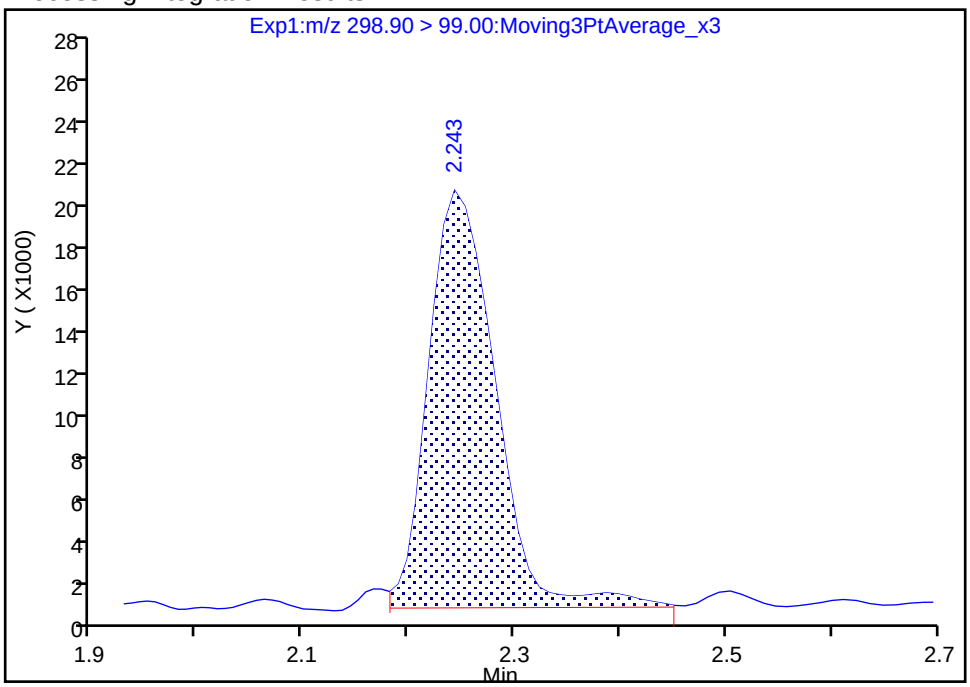
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

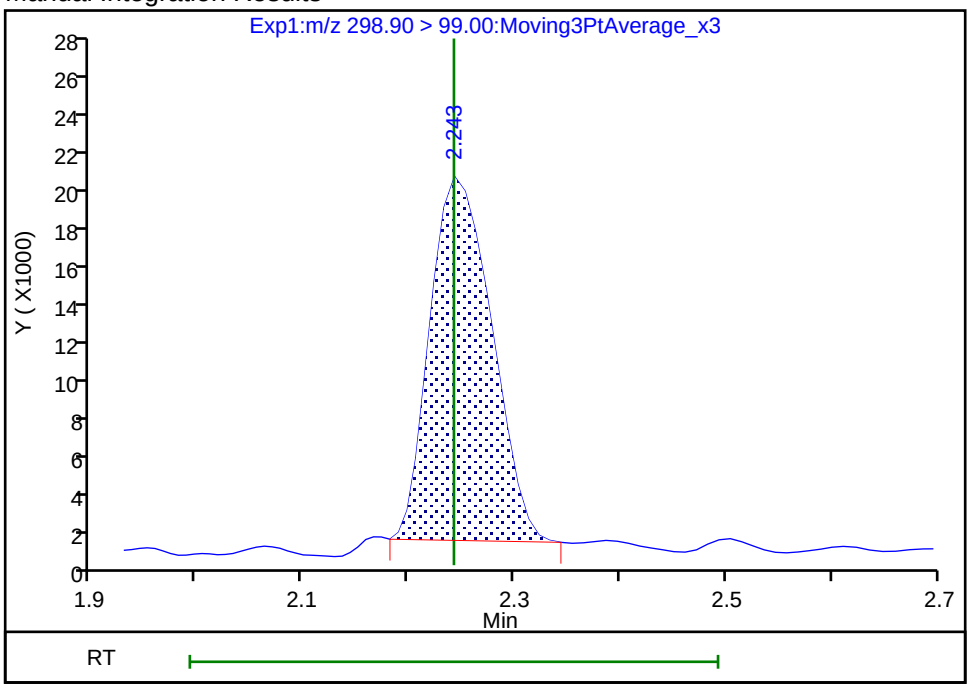
Processing Integration Results

RT: 2.24
Area: 84622
Amount: 0.045533
Amount Units: ng/ml



Manual Integration Results

RT: 2.24
Area: 75174
Amount: 0.042270
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:21:35
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

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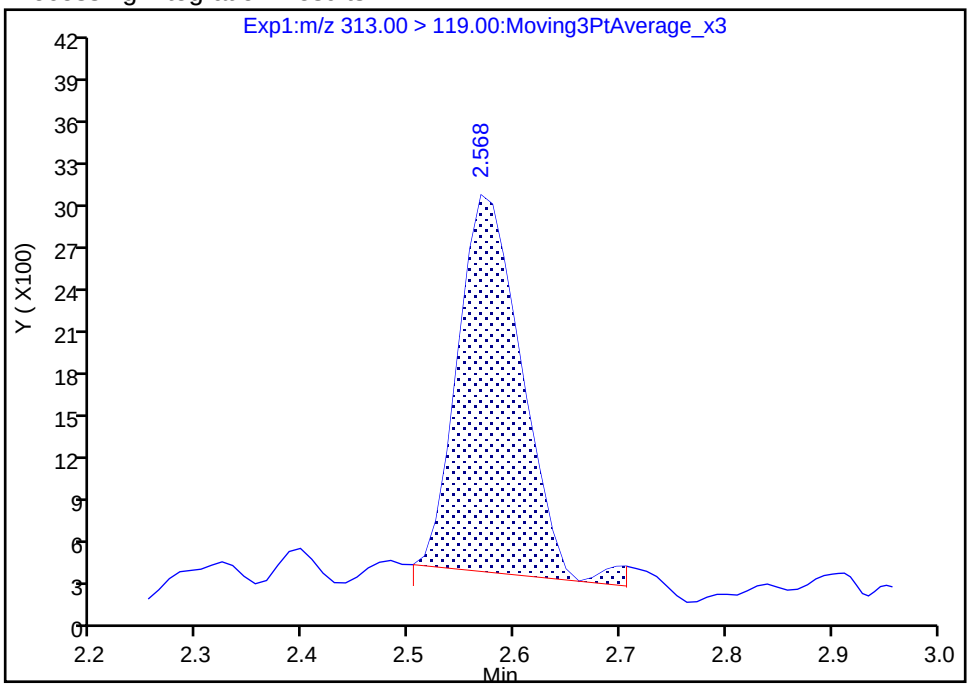
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

11 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

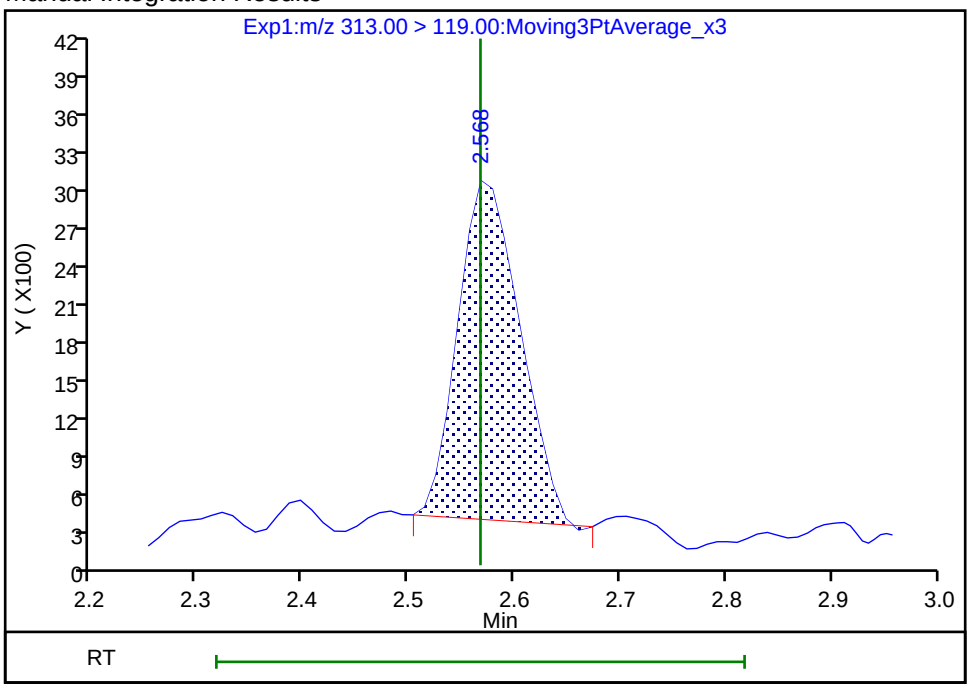
Processing Integration Results

RT: 2.57
Area: 11168
Amount: 0.045512
Amount Units: ng/ml



Manual Integration Results

RT: 2.57
Area: 10792
Amount: 0.045512
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:21:53
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

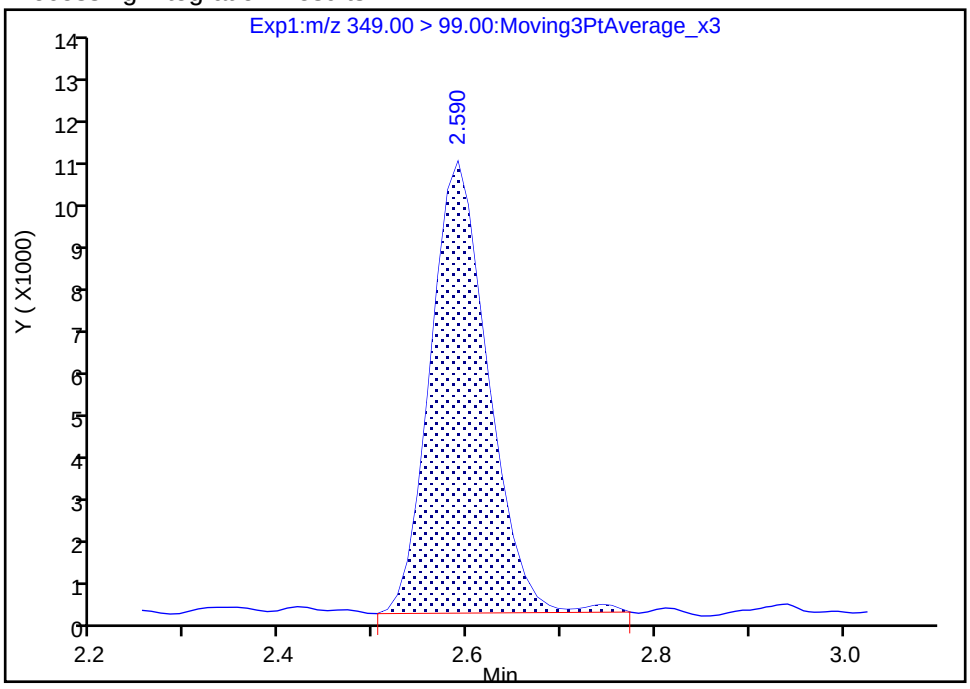
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

12 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

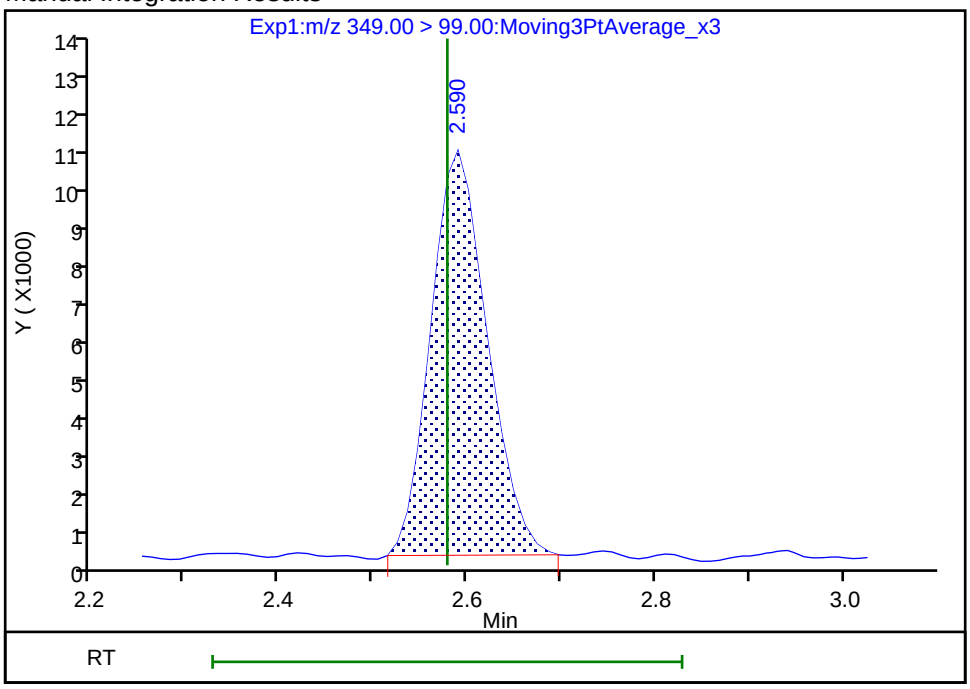
Processing Integration Results

RT: 2.59
Area: 44909
Amount: 0.044873
Amount Units: ng/ml



Manual Integration Results

RT: 2.59
Area: 43423
Amount: 0.044873
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:22:09
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

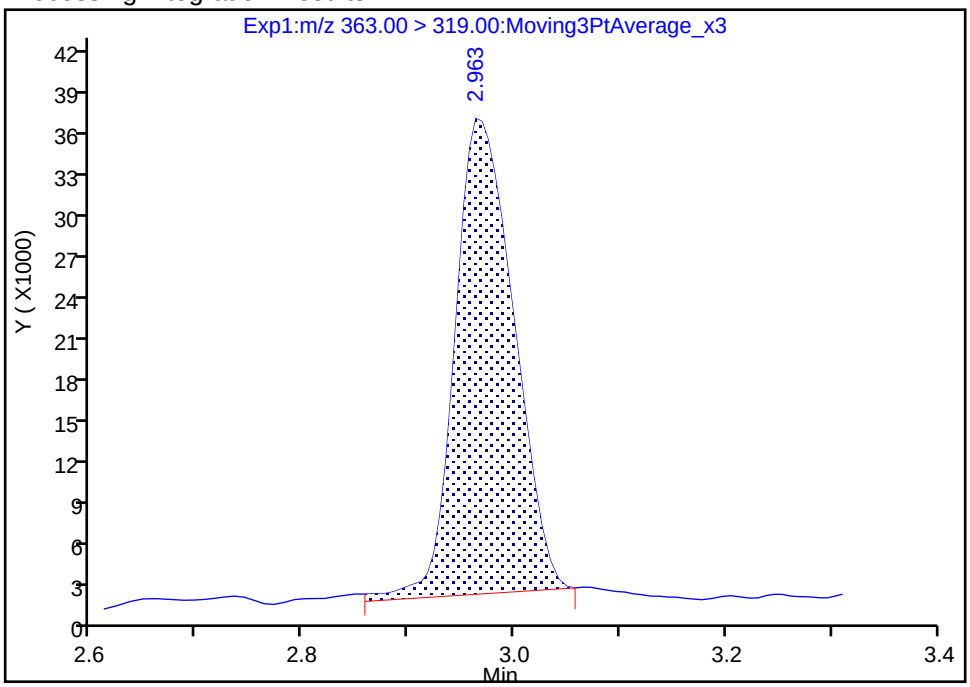
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d
Injection Date: 11-Sep-2020 09:40:01 Instrument ID: A9
Lims ID: CCVL
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 42 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

18 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

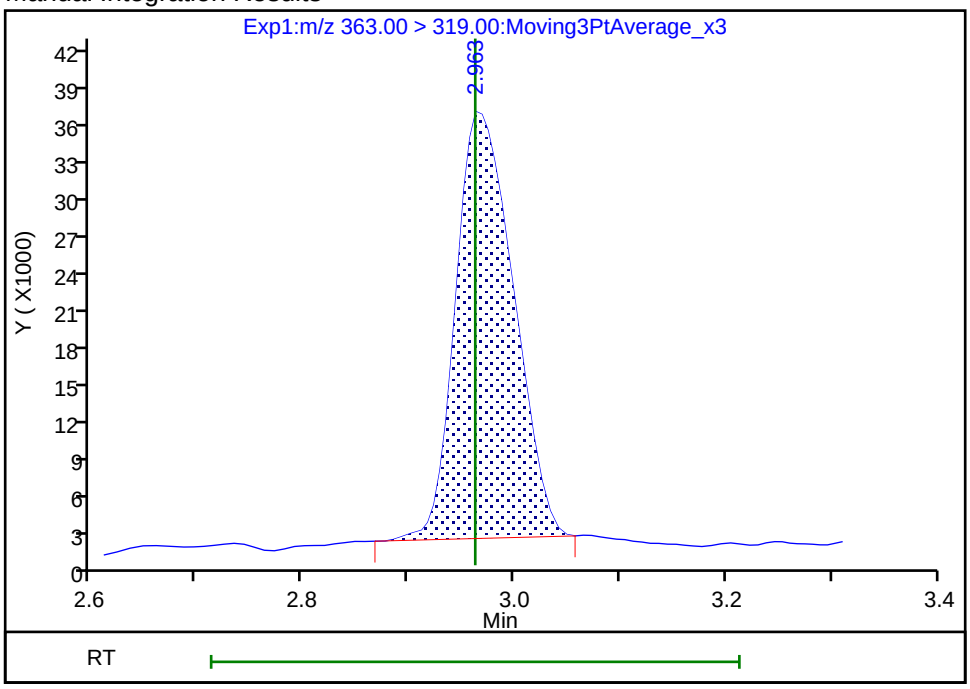
Processing Integration Results

RT: 2.96
Area: 134862
Amount: 0.046779
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 131631
Amount: 0.045658
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:28:56
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

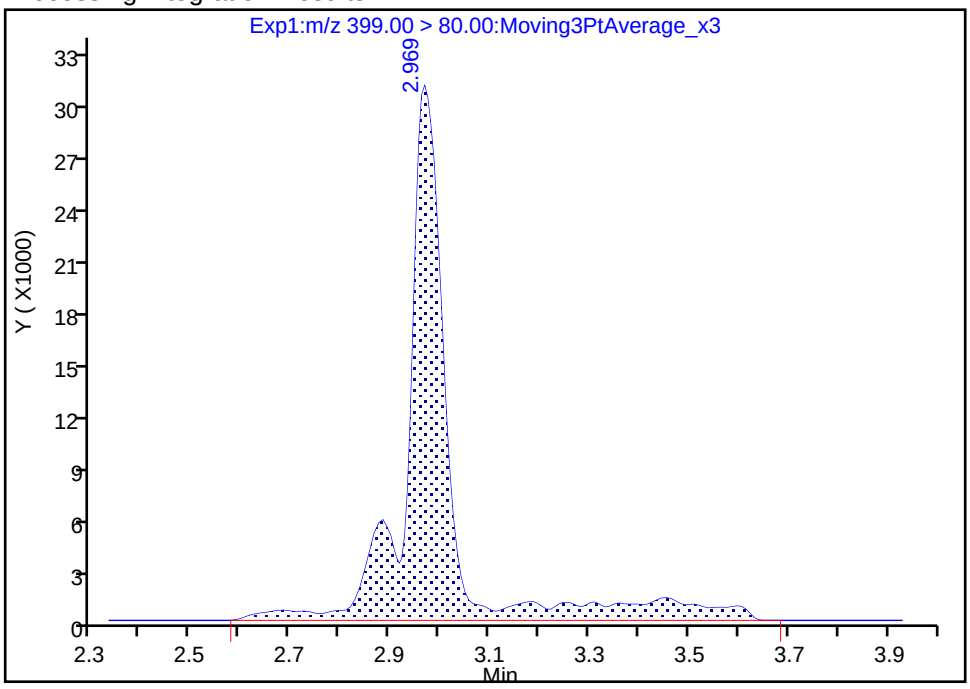
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d
Injection Date: 11-Sep-2020 09:40:01 Instrument ID: A9
Lims ID: CCVL
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 42 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

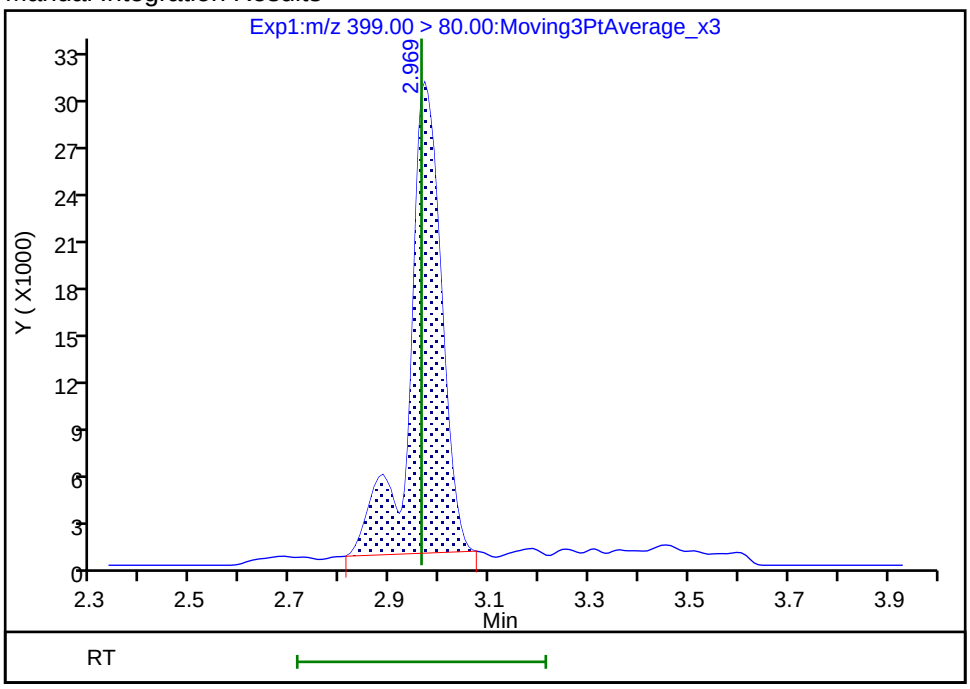
Processing Integration Results

RT: 2.97
Area: 180403
Amount: 0.054786
Amount Units: ng/ml



Manual Integration Results

RT: 2.97
Area: 134099
Amount: 0.040724
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:22:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

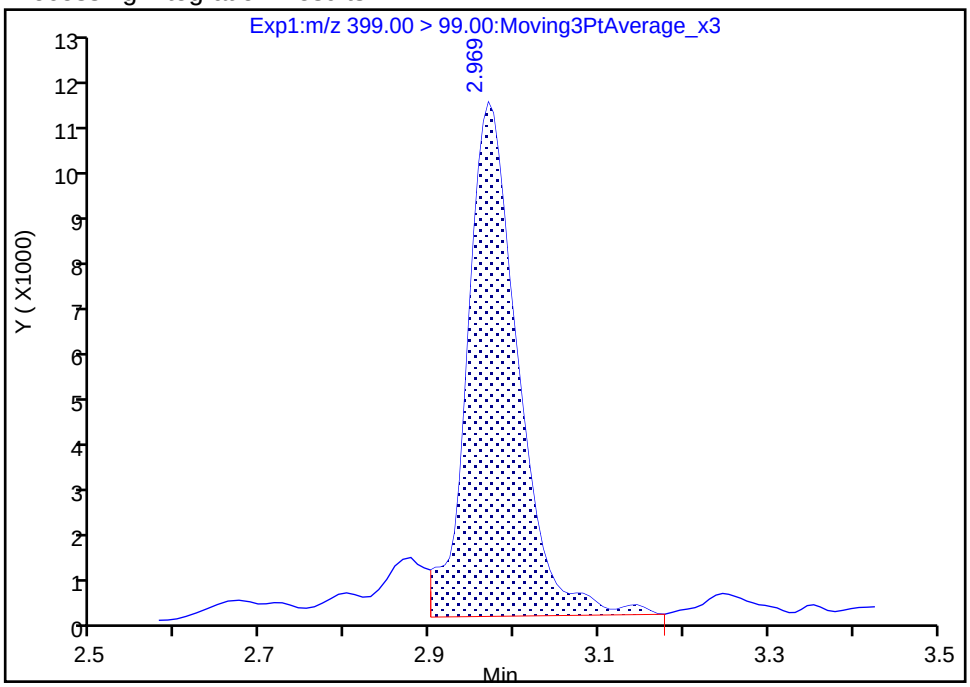
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

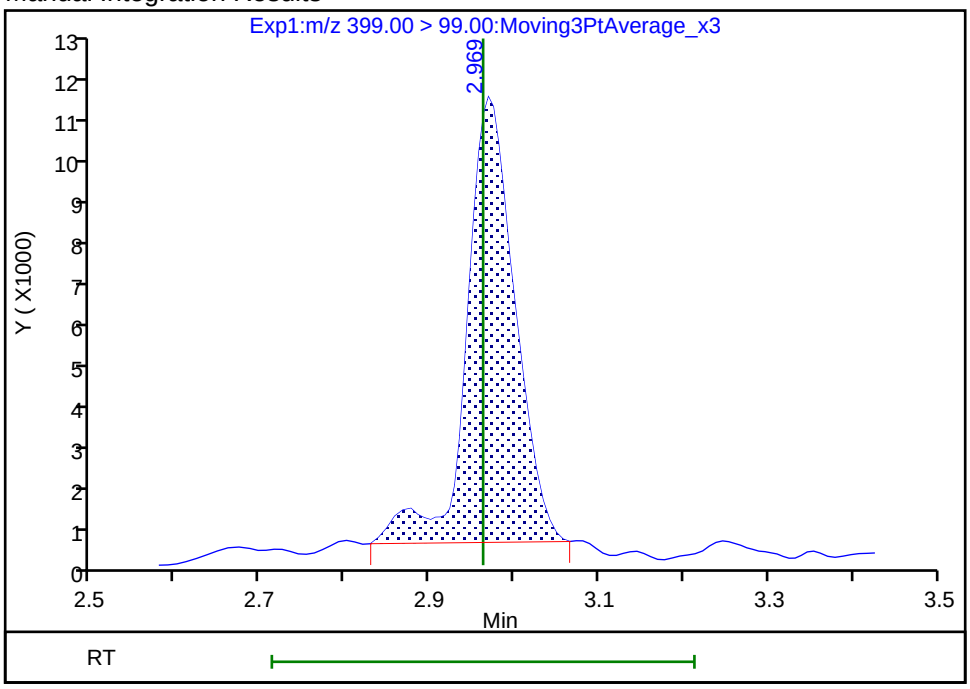
Processing Integration Results

RT: 2.97
Area: 44490
Amount: 0.054786
Amount Units: ng/ml



Manual Integration Results

RT: 2.97
Area: 40850
Amount: 0.040724
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:22:43
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

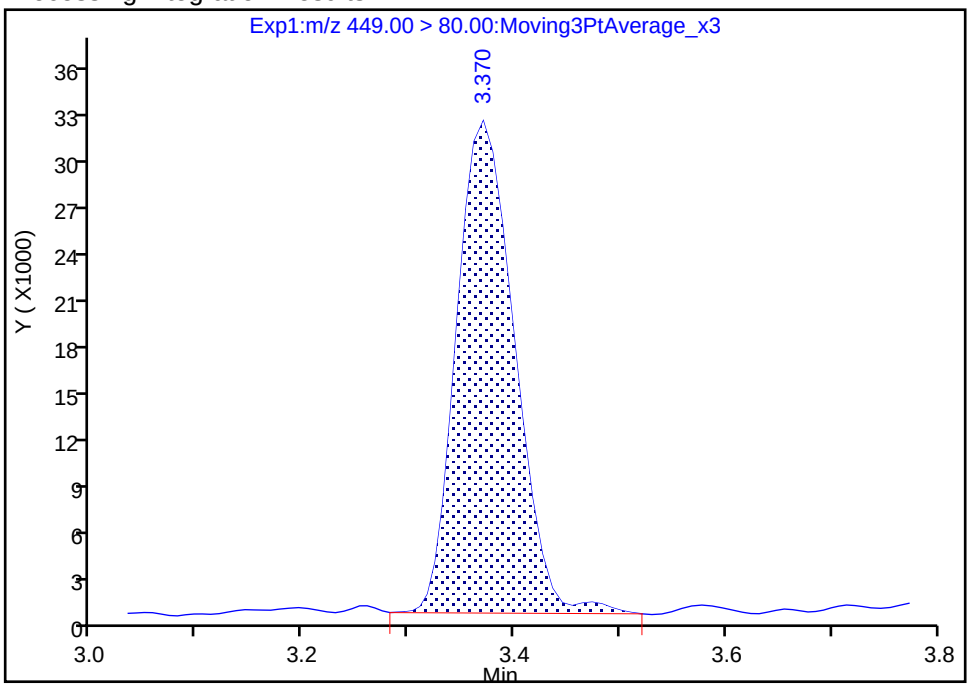
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

23 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

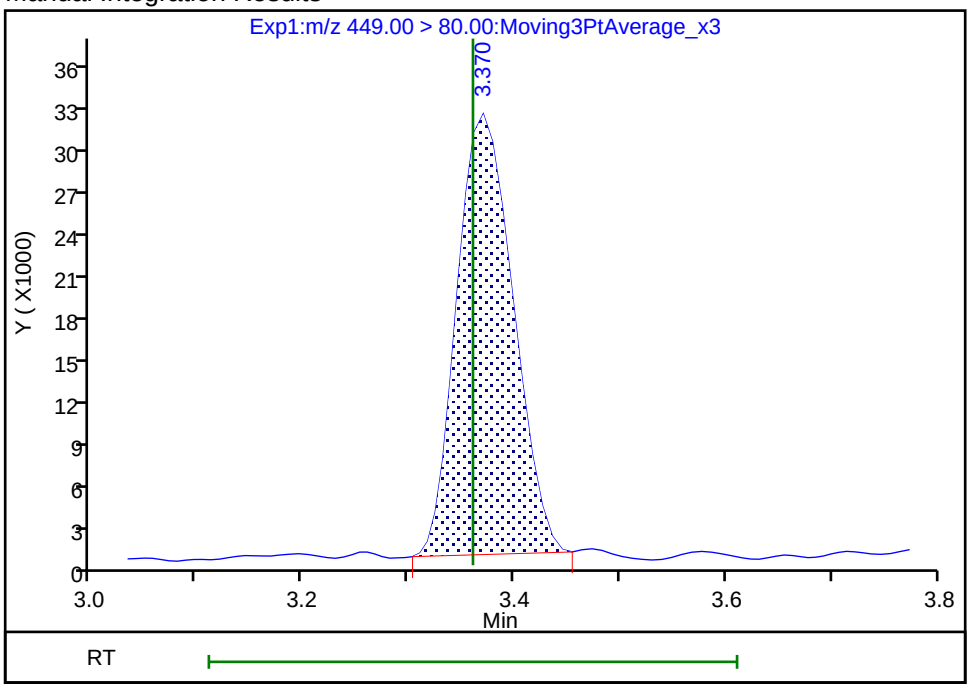
Processing Integration Results

RT: 3.37
Area: 121496
Amount: 0.045412
Amount Units: ng/ml



Manual Integration Results

RT: 3.37
Area: 116925
Amount: 0.043703
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:23:02
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

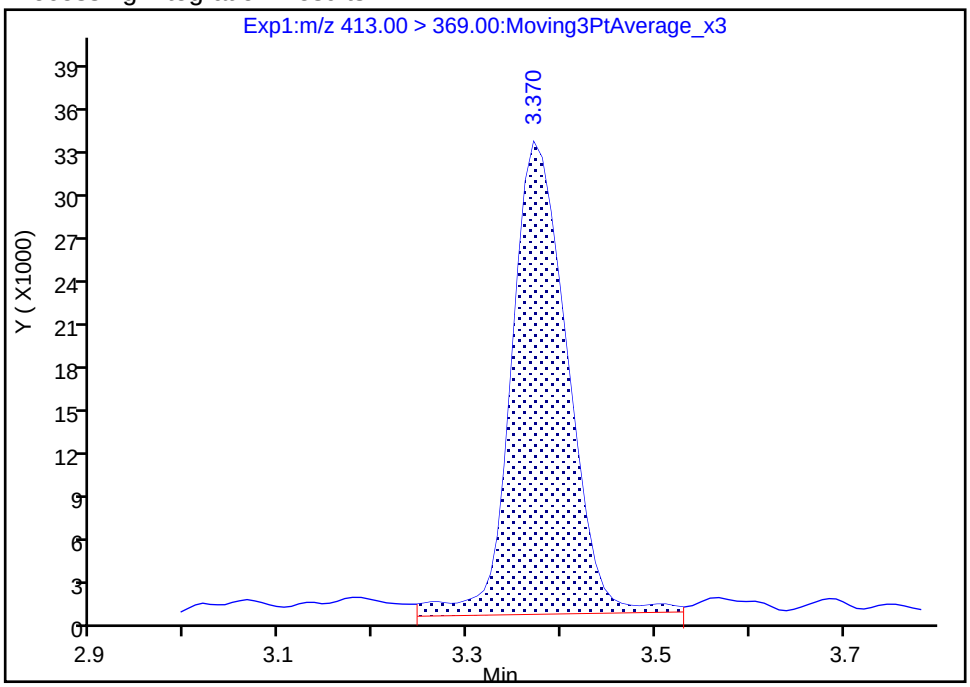
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

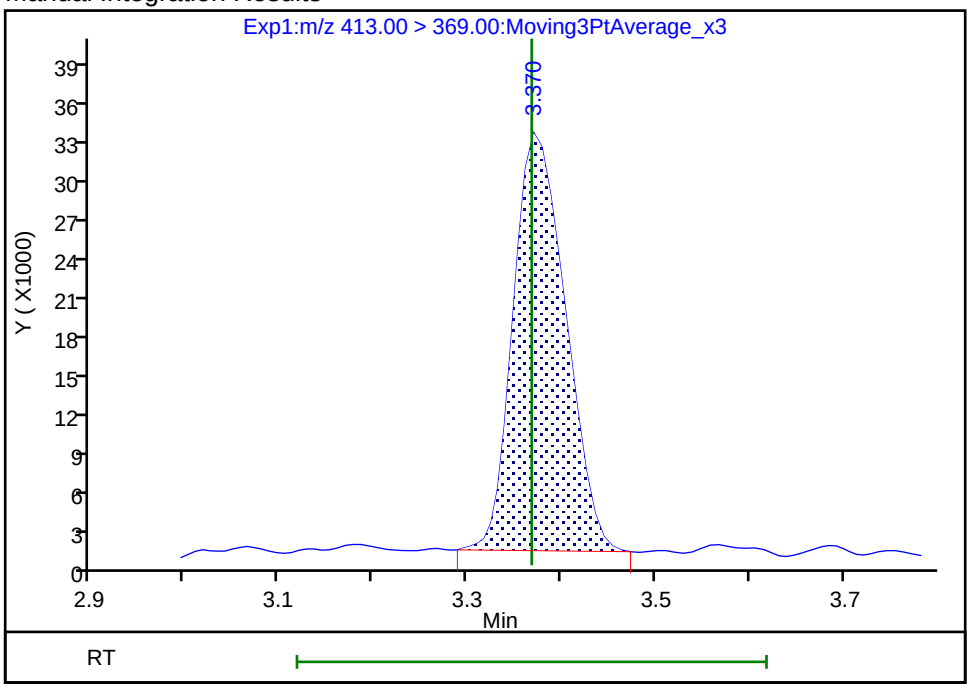
Processing Integration Results

RT: 3.37
Area: 135185
Amount: 0.053489
Amount Units: ng/ml



Manual Integration Results

RT: 3.37
Area: 123671
Amount: 0.048933
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:23:21
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

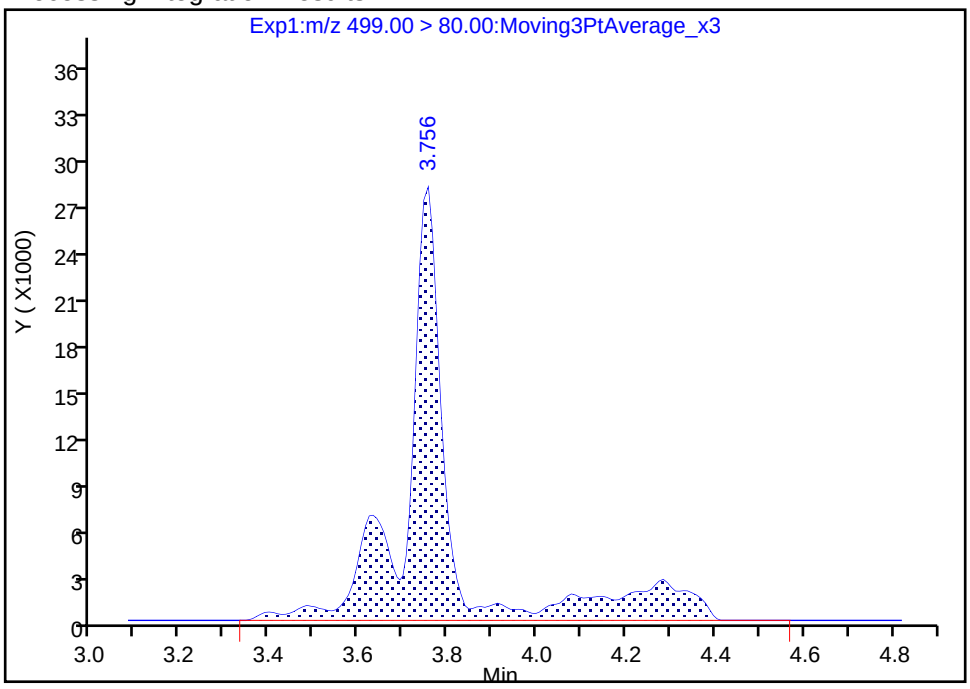
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

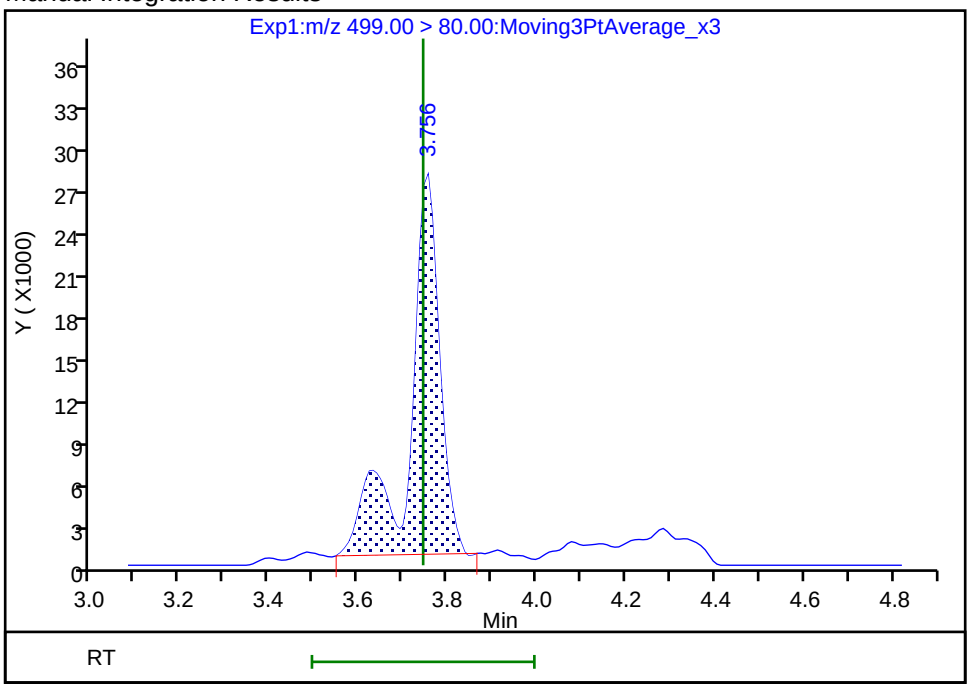
Processing Integration Results

RT: 3.76
Area: 191788
Amount: 0.063740
Amount Units: ng/ml



Manual Integration Results

RT: 3.76
Area: 127930
Amount: 0.042517
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:08:07
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

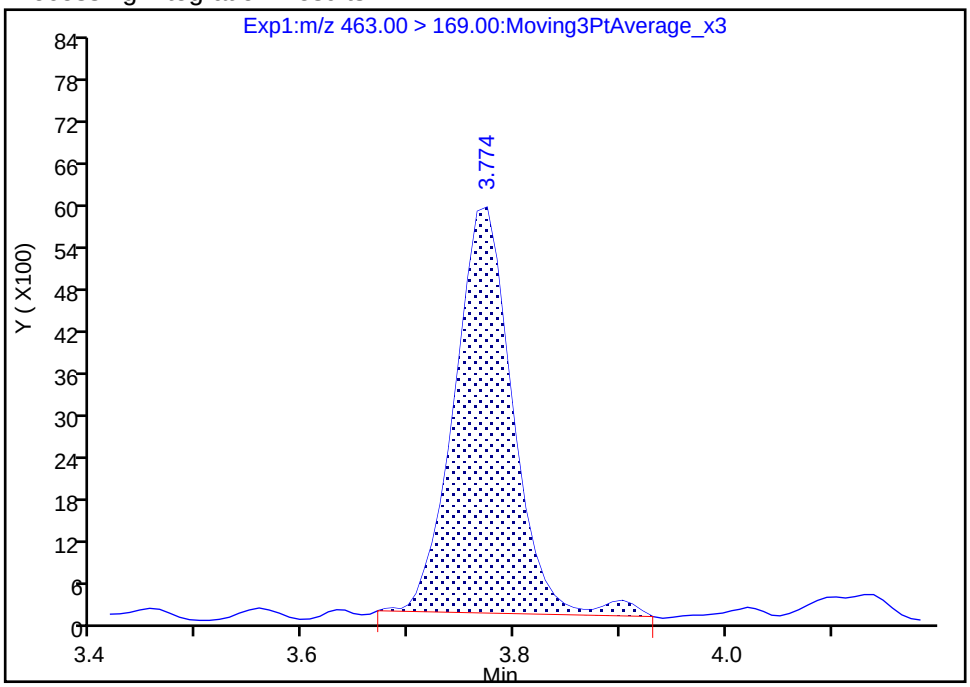
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

30 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

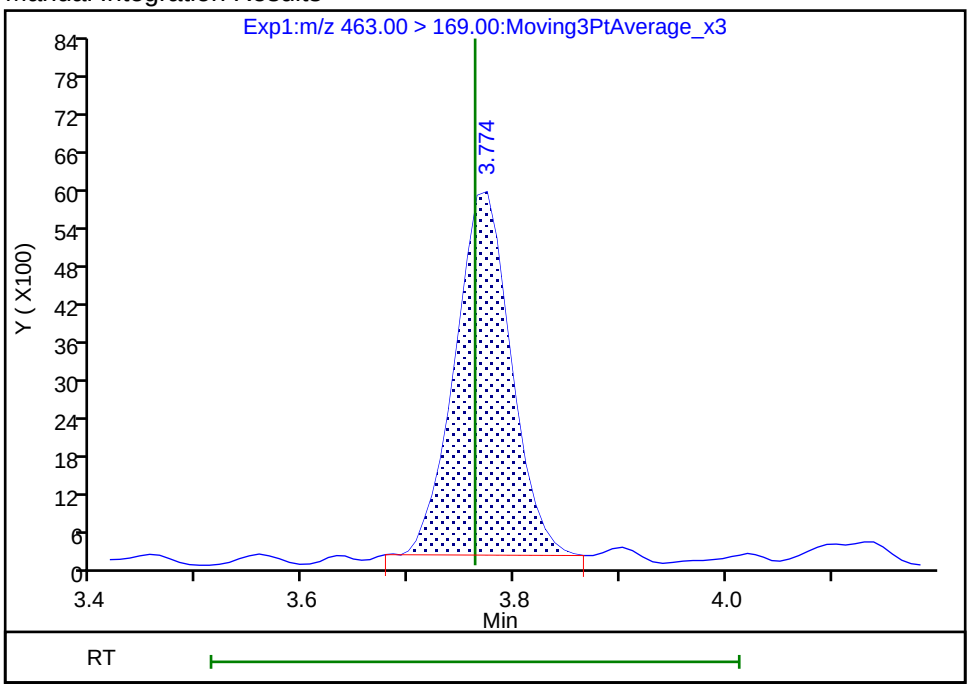
Processing Integration Results

RT: 3.77
Area: 22381
Amount: 0.051892
Amount Units: ng/ml



Manual Integration Results

RT: 3.77
Area: 21240
Amount: 0.051892
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:23:33
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

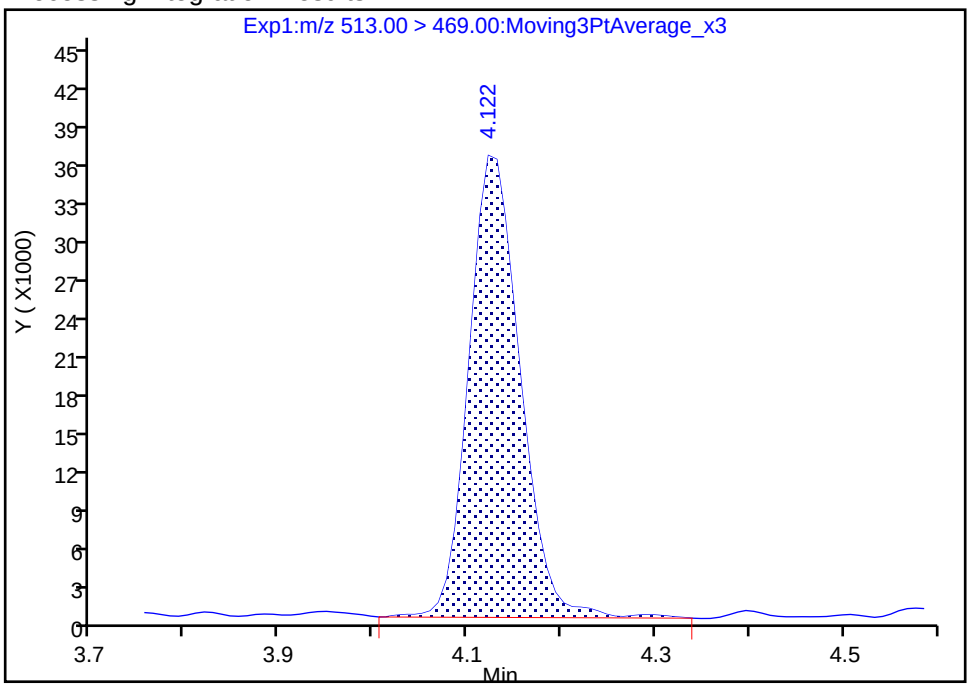
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

38 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

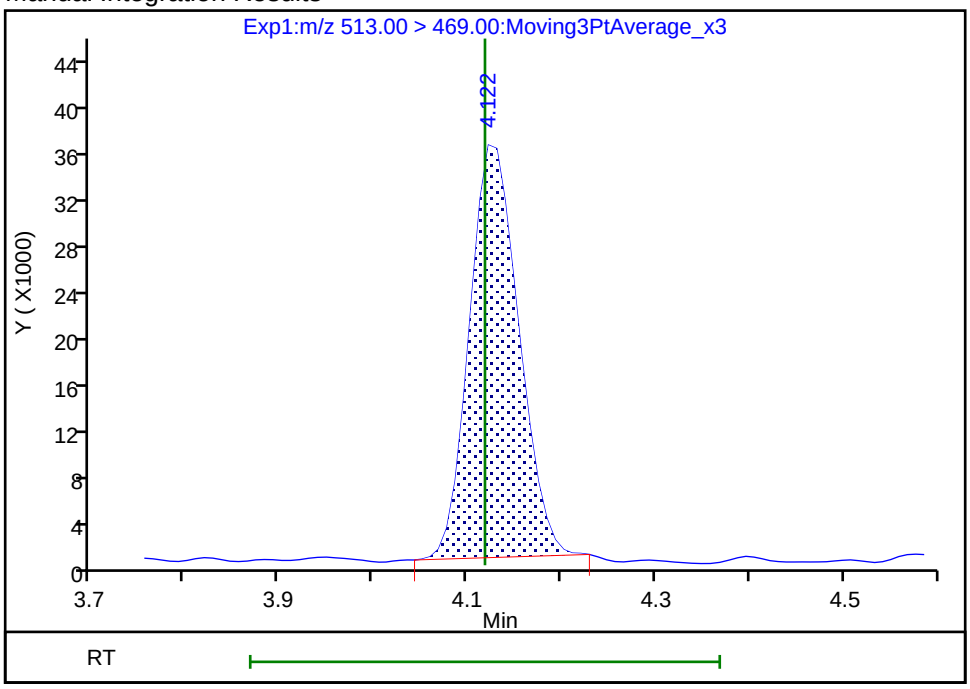
Processing Integration Results

RT: 4.12
Area: 137354
Amount: 0.050662
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 130478
Amount: 0.048126
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:23:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

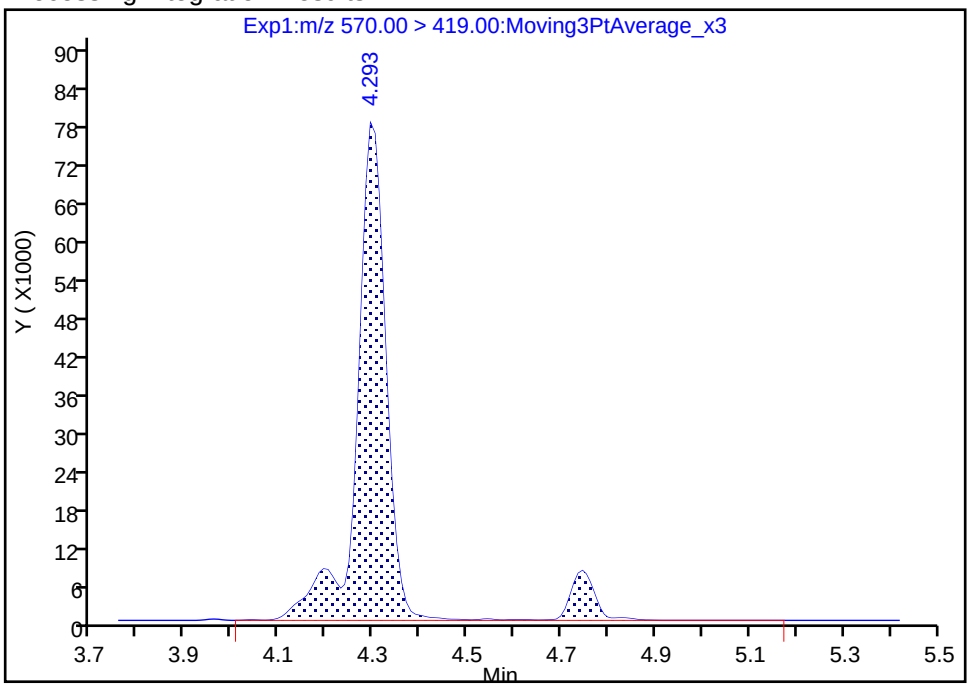
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

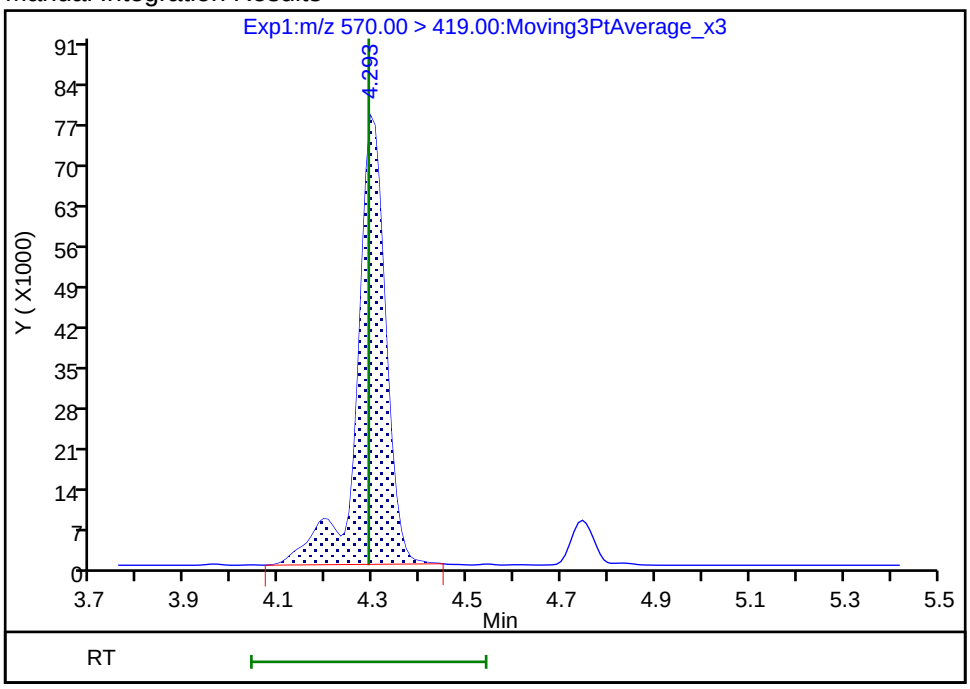
Processing Integration Results

RT: 4.29
Area: 363851
Amount: 0.469707
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 332138
Amount: 0.428768
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:24:09

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

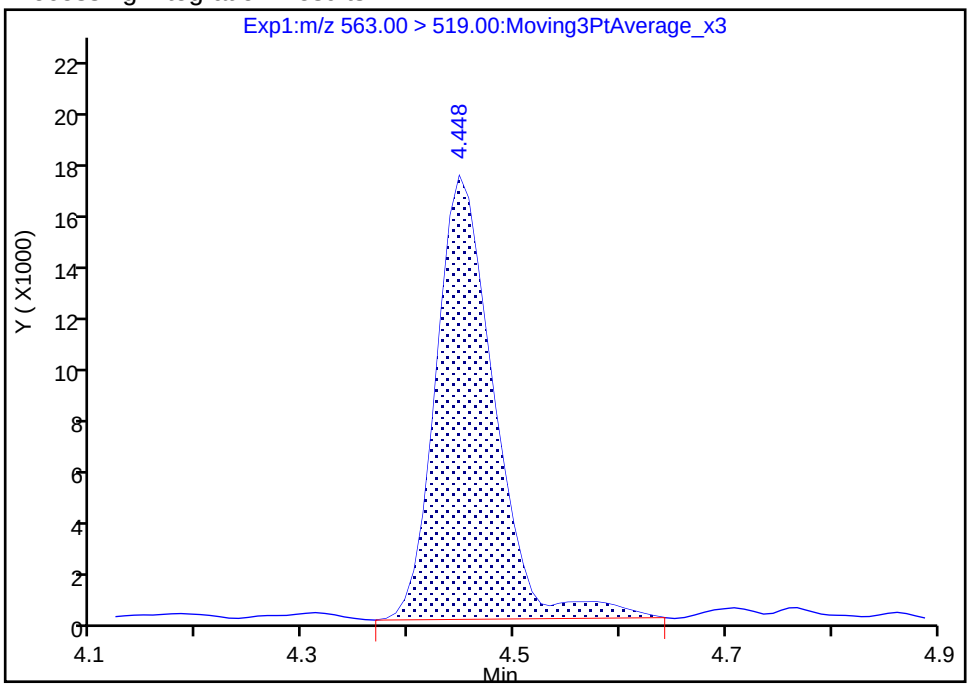
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d				
Injection Date:	11-Sep-2020 09:40:01	Instrument ID:	A9		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	42	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

43 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

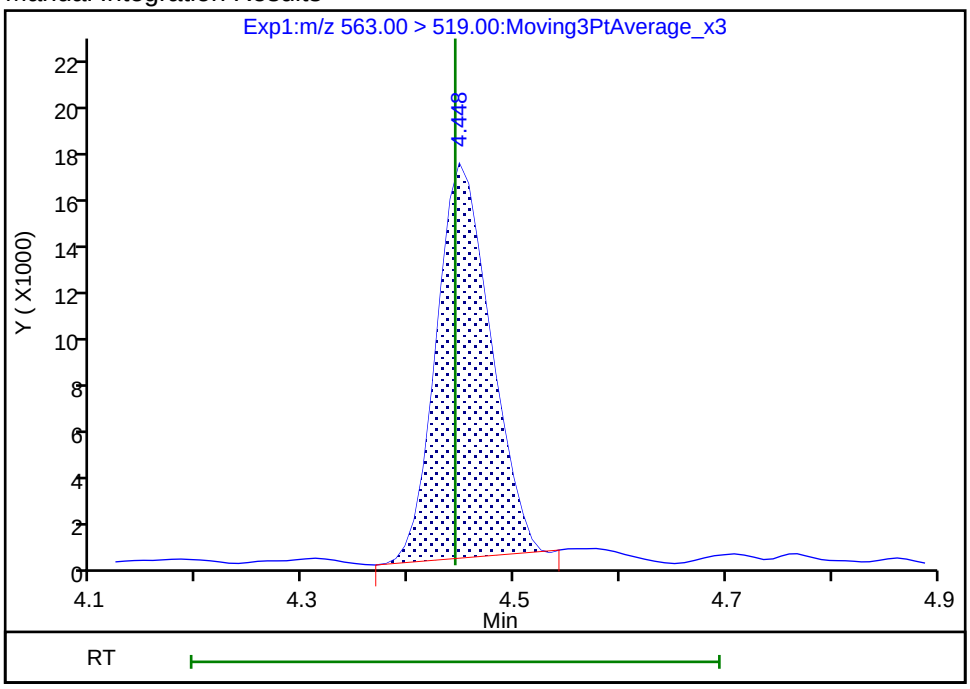
Processing Integration Results

RT: 4.45
Area: 65666
Amount: 0.046265
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 60103
Amount: 0.042346
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:24:33
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

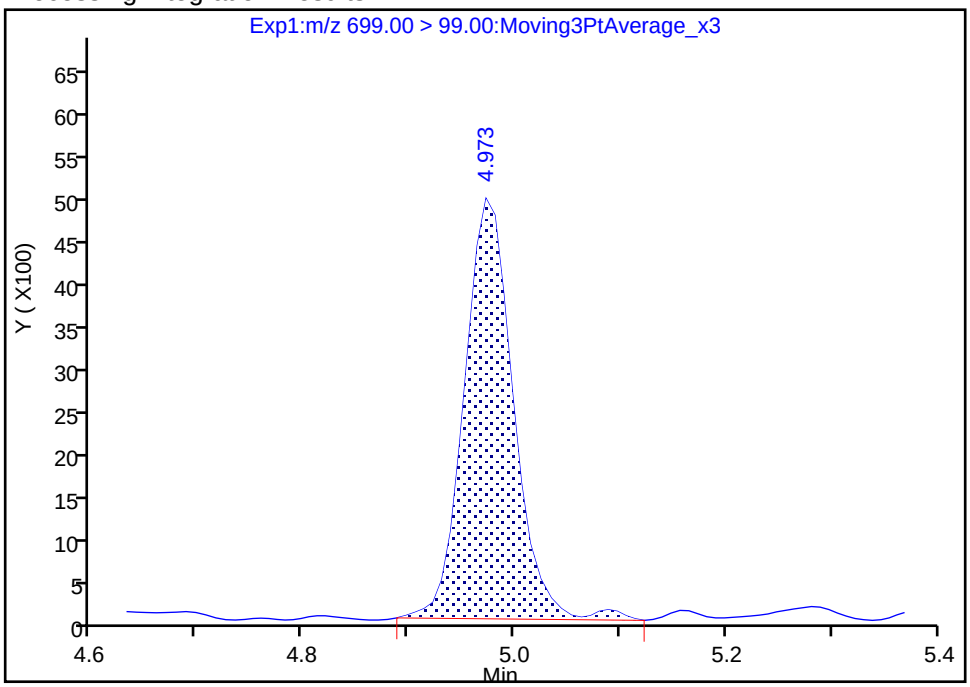
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d
Injection Date: 11-Sep-2020 09:40:01 Instrument ID: A9
Lims ID: CCVL
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 42 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

59 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

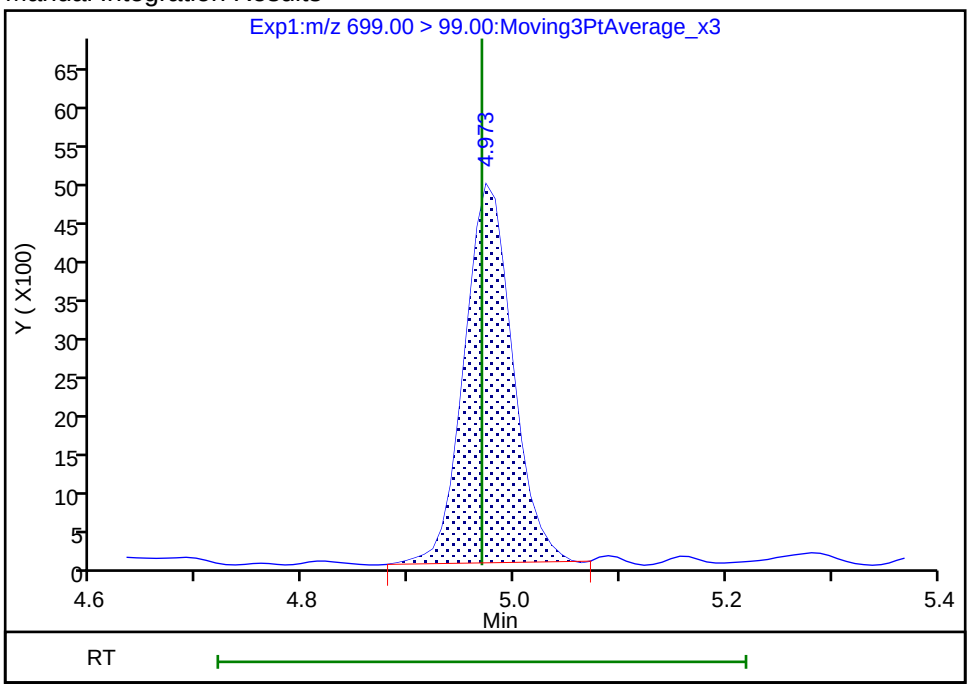
Processing Integration Results

RT: 4.97
Area: 15910
Amount: 0.043815
Amount Units: ng/ml



Manual Integration Results

RT: 4.97
Area: 15536
Amount: 0.043815
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:24:58
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

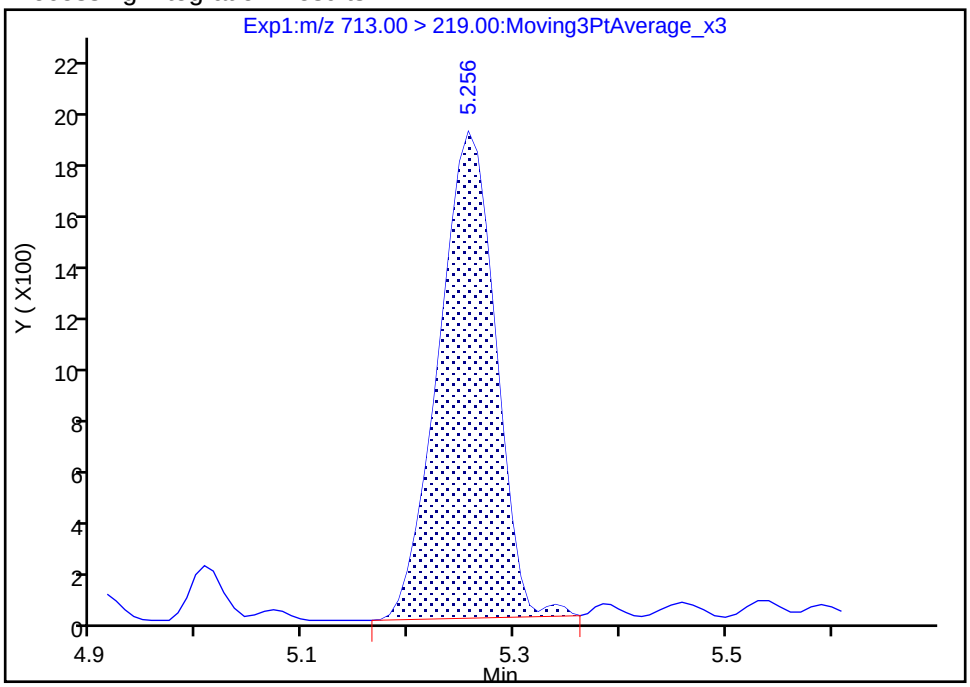
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_005.d
Injection Date: 11-Sep-2020 09:40:01 Instrument ID: A9
Lims ID: CCVL
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 42 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

61 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

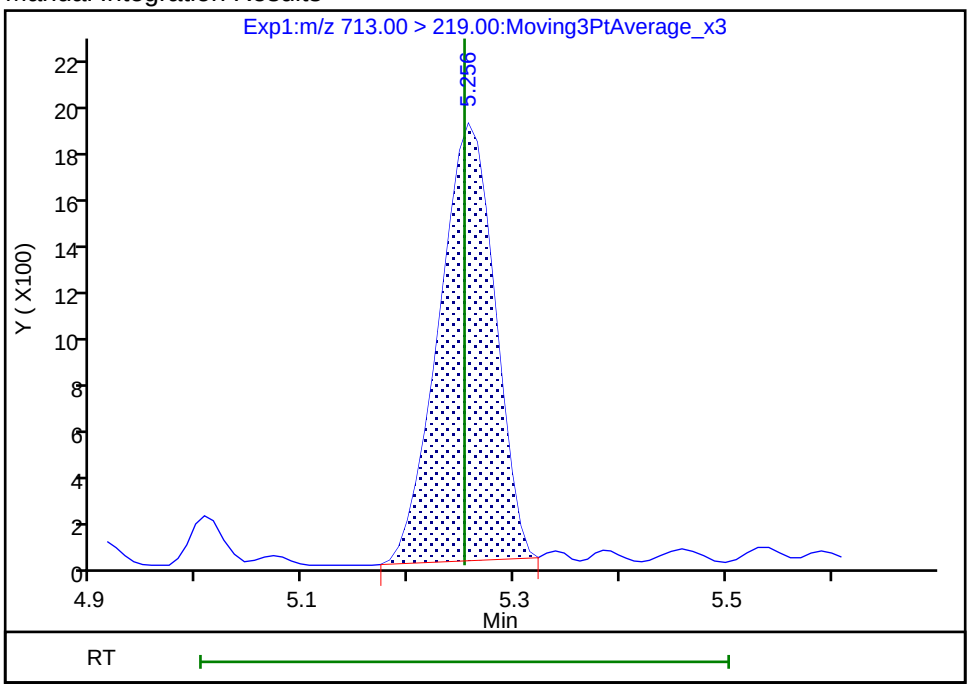
Processing Integration Results

RT: 5.26
Area: 7030
Amount: 0.047043
Amount Units: ng/ml



Manual Integration Results

RT: 5.26
Area: 6875
Amount: 0.047043
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:29:40
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411300/3 Calibration Date: 09/11/2020 09:49

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8734	0.9816		1.12	1.00	12.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.018	1.125		1.11	1.00	10.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.998	1.131		1.00	0.884	13.3	50.0
4:2 FTS	AveID	1.978	2.256		1.07	0.934	14.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8343	0.8835		1.06	1.00	5.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.4016	0.4260		0.995	0.938	6.1	50.0
HFPO-DA (GenX)	AveID	0.3959	0.4087		1.03	1.00	3.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.109	1.180		1.06	1.00	6.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.180	1.132		0.873	0.910	-4.0	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.813	2.052		1.07	0.942	13.2	50.0
6:2 FTS	AveID	1.542	1.557		0.957	0.948	1.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.9244	1.019		1.05	0.952	10.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.078	1.112		1.03	1.00	3.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.040	1.106		0.988	0.928	6.4	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.093		1.10	1.00	9.8	40.0
F-53B Major	AveID	0.6274	0.6784		1.01	0.932	8.1	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	2.782	2.921		1.05	1.00	5.0	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7591	0.8073		1.02	0.960	6.4	50.0
8:2 FTS	AveID	1.288	1.430		1.06	0.958	11.0	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.998	1.072		1.07	1.00	7.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7593	0.8347		1.10	1.00	9.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8492	0.9191		1.04	0.964	8.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6962	0.7675		1.10	1.00	10.2	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8112	0.8284		1.02	1.00	2.1	40.0
NMeFOSE	AveID	1.043	1.077		1.03	1.00	3.3	40.0
NMeFOSA	AveID	1.043	1.147		1.10	1.00	10.0	50.0
F-53B Minor	AveID	0.7398	0.8180		1.04	0.942	10.6	50.0
NEtFOSE	AveID	0.9939	0.9615		0.967	1.00	-3.3	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9197	1.026		1.12	1.01	11.6	40.0
NEtFOSA	AveID	0.995	1.082		1.09	1.00	8.7	40.0
10:2 FTS	AveID	0.8214	0.8305		0.975	0.964	1.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.1269	0.1296		0.989	0.968	2.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411300/3 Calibration Date: 09/11/2020 09:49

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.7267	0.8177		1.13	1.00	12.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1764	0.1904		1.08	1.00	7.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9541		1.02	1.00	2.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7480	0.8287		1.11	1.00	10.8	50.0
13C4 PFBA	Ave	1.350	1.345		2.49	2.50	-0.3	50.0
13C5 PFPeA	Ave	1.138	1.075		2.36	2.50	-5.6	50.0
13C3 PFBS	Ave	2.249	2.250		2.33	2.33	0.0	50.0
M2-4:2 FTS	Ave	0.2233	0.1796		1.88	2.34	-19.5	50.0
13C2 PFHxA	Ave	1.058	1.041		2.46	2.50	-1.7	50.0
13C3 HFPO-DA	Ave	0.7264	0.7021		2.42	2.50	-3.3	50.0
13C4 PFHpA	Ave	1.030	1.051		2.55	2.50	2.0	50.0
18O2 PFHxS	Ave	1.076	1.116		2.45	2.37	3.7	50.0
M2-6:2 FTS	Ave	0.1925	0.1663		2.05	2.38	-13.6	50.0
13C4 PFOA	Ave	0.9654	0.9625		2.49	2.50	-0.3	50.0
13C4 PFOS	Ave	1.123	1.113		2.37	2.39	-0.9	50.0
13C5 PFNA	Ave	0.8376	0.8208		2.45	2.50	-2.0	50.0
13C8 FOSA	Ave	0.5280	0.5302		2.51	2.50	0.4	50.0
13C2 PFDA	Ave	1.063	1.039		2.44	2.50	-2.3	50.0
M2-8:2 FTS	Ave	0.2357	0.1891		1.92	2.40	-19.8	50.0
d3-NMeFOSAA	Ave	0.5286	0.4395		2.08	2.50	-16.9	50.0
13C2 PFUnA	Ave	0.8198	0.8012		2.44	2.50	-2.3	50.0
d5-NEtFOSAA	Ave	0.3541	0.3155		2.23	2.50	-10.9	50.0
d7-N-MeFOSE-M	Ave	0.1700	0.1691		12.4	12.5	-0.5	50.0
d-N-MeFOSA-M	Ave	0.2378	0.2238		2.35	2.50	-5.9	50.0
d9-N-EtFOSE-M	Ave	0.1785	0.1863		13.0	12.5	4.4	50.0
13C2 PFDoA	Ave	0.8051	0.7479		2.32	2.50	-7.1	50.0
d-N-EtFOSA-M	Ave	0.2469	0.2337		2.37	2.50	-5.4	50.0
13C2 PFTeDA	Ave	0.5615	0.5166		2.30	2.50	-8.0	50.0
13C2 PFHxDA	Ave	0.4152	0.3933		2.37	2.50	-5.3	50.0
13C8 PFOA	Ave	0.8088	0.8820		2.67	2.45	9.1	50.0
13C8 PFOS	Ave	0.2542	0.2575		2.42	2.39	1.3	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_006.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Sep-2020 09:49:21 ALS Bottle#: 43 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4 (30)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:32:41 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 10:32:41
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.900	1.900	0.0	0.564	8182312	2.49		99.7	2849	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.900	1.900	0.0	1.000	3212573	1.12		112	207	
D 4 13C5 PFPeA										
267.90 > 223.00	2.206	2.206	0.0	0.655	6538863	2.36		94.4	2515	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.206	2.206	0.0	1.000	2943171	1.11		111	193	
D 6 13C3 PFBS										
301.90 > 80.00	2.233	2.233	0.0	0.663	12726745	2.33		100	3438	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.243	2.243	0.0	1.004	5471298	1.00	Target=3.10	113	478	
298.90 > 99.00	2.233	2.243	-0.010	1.000	1639065		3.34(1.55-4.65)		259	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.525	2.525	0.0	0.750	1020578	1.88		80.5	671	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.525	2.525	0.0	1.000	921116	1.07		114	4674	
D 10 13C2 PFHxA										
315.00 > 270.00	2.568	2.568	0.0	0.762	6329639	2.46		98.3	2642	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.568	2.568	0.0	1.000	2236775	1.06	Target=9.68	106	270	
313.00 > 119.00	2.568	2.568	0.0	1.000	232044		9.64(4.84-14.52)		167	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.578	2.578	0.0	1.155	2187389	1.00	Target=2.01	106	667	
349.00 > 99.00	2.578	2.578	0.0	1.155	1107229		1.98(1.00-3.01)		936	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.686	2.686	0.0	0.798	4270812	2.42		96.7	3565	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.686	2.686	0.0	1.000	698262	1.03		103	2453	
D 15 13C4 PFHpA										
367.00 > 322.00	2.957	2.957	0.0	0.878	6391817	2.55		102	3792	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.963	2.963	0.0	1.002	3016356	1.06	Target=3.74	106	442	
363.00 > 169.00	2.957	2.963	-0.006	1.000	749023		4.03(1.87-5.61)		609	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.963	2.963	0.0	1.000	2796181	0.8732	Target=3.29	96.0	613	
399.00 > 99.00	2.963	2.963	0.0	1.000	832887		3.36(1.65-4.94)		442	M
D 17 18O2 PFHxS										
403.00 > 84.00	2.963	2.963	0.0	0.880	6420473	2.45		104	3049	
19 DONA										
377.00 > 251.00	3.009	3.009	0.0	0.804	5234589	1.07	Target=1.80	113	5005	
377.00 > 85.00	3.009	3.009	0.0	0.804	2794325		1.87(0.90-2.70)		2524	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.345	3.345	0.0	0.993	960763	2.05		86.4	1102	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.345	3.345	0.0	1.000	596992	0.9572		101	837	
$ 21 13C8 PFOA										
421.00 > 376.00	3.361	3.361	0.0	0.998	5252443	2.67		109	5323	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.361	3.361	0.0	0.897	2627338	1.05	Target=3.65	110	802	
449.00 > 99.00	3.361	3.361	0.0	0.897	705009		3.73(1.83-5.48)		1316	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.368	3.368	0.0	1.000	2607737	1.03	Target=2.37	103	571	
413.00 > 169.00	3.368	3.368	0.0	1.000	1120969		2.33(1.19-3.56)		1351	
* 25 13C2 PFOA										
415.00 > 370.00	3.368	3.368	0.0		6083088	2.50			4477	
D 26 13C4 PFOA										
417.00 > 372.00	3.368	3.368	0.0	1.000	5855115	2.49		99.7	4848	
28 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.744	3.744	0.0	1.000	2780560	0.9875	Target=4.12	106	359	
499.00 > 99.00	3.744	3.744	0.0	1.000	639350		4.35(2.06-6.17)		1241	
D 31 13C4 PFOS										
503.00 > 80.00	3.744	3.744	0.0	1.112	6472511	2.37		99.1	2069	
$ 27 13C8 PFOS										
507.00 > 99.00	3.744	3.744	0.0	1.112	1497188	2.42		101	2246	
D 29 13C5 PFNA										
468.00 > 423.00	3.754	3.754	0.0	1.114	4993249	2.45		98.0	3680	
30 Perfluorononanoic acid										
463.00 > 419.00	3.763	3.763	0.0	1.002	2188073	1.10	Target=4.21	110	1476	
463.00 > 169.00	3.763	3.763	0.0	1.002	506067		4.32(2.11-6.32)		863	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.947	3.947	0.0	1.054	1712341	1.01		108	4313	
D 36 13C8 FOSA										
506.00 > 78.00	4.083	4.083	0.0	1.212	3225117	2.51		100	3113	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.083	4.083	0.0	1.000	3768857	1.05		105	2389	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.092	4.092	0.0	1.093	2098790	1.02	Target=5.56	106	1415	
549.00 > 99.00	4.092	4.092	0.0	1.093	356161		5.89(2.78-8.34)		1098	
D 33 13C2 PFDA										
515.00 > 470.00	4.118	4.118	0.0	1.223	6320469	2.44		97.7	3906	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.118	4.118	0.0	1.000	2710195	1.07	Target=14.33	107	1323	
513.00 > 169.00	4.118	4.118	0.0	1.000	186071		14.57(7.16-21.49)		296	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.118	4.118	0.0	0.998	630149	1.06		111	2918	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.127	4.127	0.0	1.225	1101883	1.92		80.2	980	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.271	2673305	2.08		83.1	1784	
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.289	4.289	0.0	1.002	892527	1.10		110	197	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.418	4.418	0.0	1.180	2399590	1.04	Target=4.29	108	1096	
599.00 > 99.00	4.418	4.418	0.0	1.180	503645		4.76(2.15-6.44)		1125	
D 46 13C2 PFUnA										
565.00 > 520.00	4.444	4.444	0.0	1.319	4874030	2.44		97.7	7582	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.444	4.444	0.0	1.000	1497842	1.10	Target=6.74	110	1810	
563.00 > 169.00	4.444	4.444	0.0	1.000	216009		6.93(3.37-10.11)		755	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.452	4.452	0.0	1.322	1919429	2.23		89.1	1745	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.452	4.452	0.0	1.000	636037	1.02		102	8262	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.538	4.538	0.0	1.347	5142286	12.4		99.5	4588	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.555	4.555	0.0	1.004	443230	1.03		103	817	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.564	4.564	0.0	1.355	1361469	2.35		94.1	231	
50 NMeFOSA										
512.00 > 169.00	4.564	4.564	0.0	1.000	624704	1.10		110	1282	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.582	4.582	0.0	1.224	2086836	1.04		111	4076	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.713	4.713	0.0	1.399	5665176	13.0		104	3508	
D 56 13C2 PFDoA										
615.00 > 570.00	4.732	4.732	0.0	1.405	4549362	2.32		92.9	4558	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.732	4.732	0.0	1.004	435769	0.9675		96.7	840	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
52 Perfluorododecanoic acid										
613.00 > 569.00	4.732	4.732	0.0	1.000	1878835	1.12	Target=6.67	112	1850	
613.00 > 169.00	4.732	4.732	0.0	1.000	251553		7.47(3.34-10.01)		1029	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.741	4.741	0.0	1.408	1421335	2.37		94.6	1041	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.748	4.748	0.0	1.002	615223	1.09		109	735	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.756	4.756	0.0	1.152	368341	0.9747		101	1614	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.969	4.969	0.0	1.327	339727	0.9889	Target=1.02	102	805	
699.00 > 99.00	4.969	4.969	0.0	1.327	316844		1.07(0.51-1.53)		1507	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.003	5.003	0.0	1.057	1487969	1.13	Target=4.80	113	4097	
663.00 > 169.00	5.003	5.003	0.0	1.057	307592		4.84(2.40-7.20)		2135	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.253	5.253	0.0	1.559	3142226	2.30		92.0	7119	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.253	5.253	0.0	1.000	239510	1.08	Target=1.37	108	2201	
713.00 > 219.00	5.244	5.253	-0.009	0.998	160690		1.49(0.69-2.06)		1074	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.690	5.690	0.0	1.000	913109	1.02	Target=4.63	102	1897	
813.00 > 169.00	5.690	5.690	0.0	1.000	191156		4.78(2.32-6.95)		1585	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.690	5.690	0.0	1.689	2392627	2.37		94.7	5593	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.120	6.120	0.0	1.076	793093	1.11	Target=4.01	111	1614	
913.00 > 169.00	6.120	6.120	0.0	1.076	191296		4.15(2.01-6.02)		1075	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 10:32:42 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_006.d

Injection Date: 11-Sep-2020 09:49:21 Instrument ID: A9

Lims ID: CCV L4

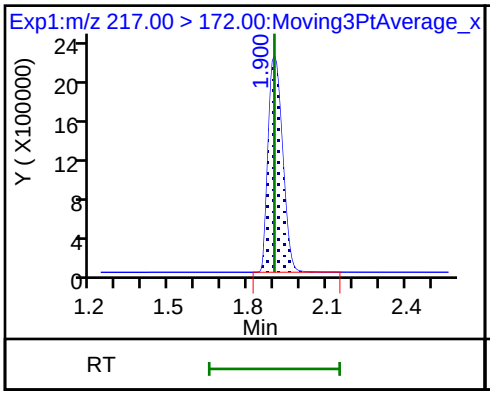
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 43 Worklist Smp#: 3

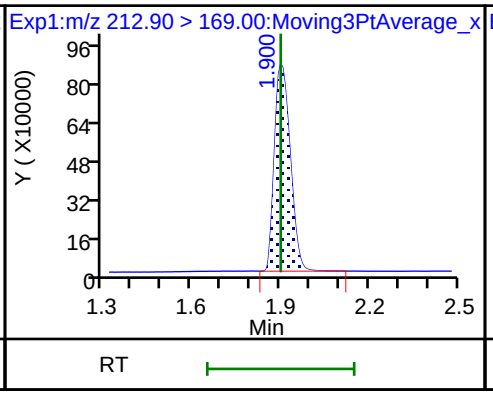
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

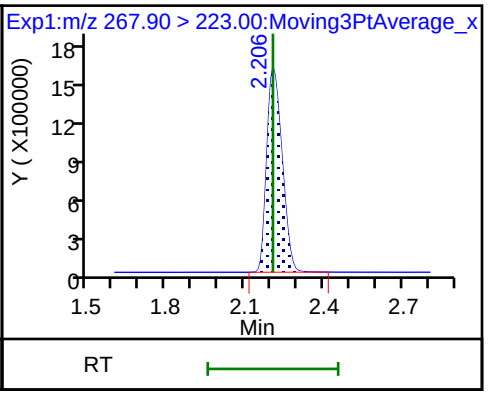
D 1 13C4 PFBA



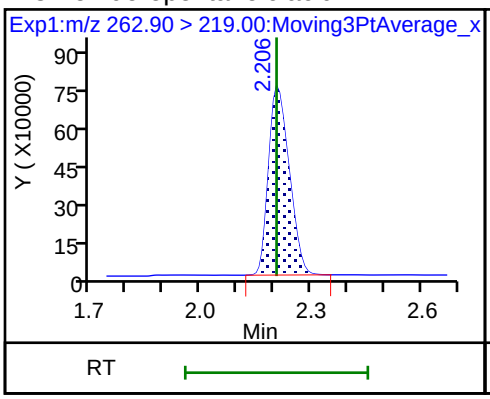
2 Perfluorobutanoic acid



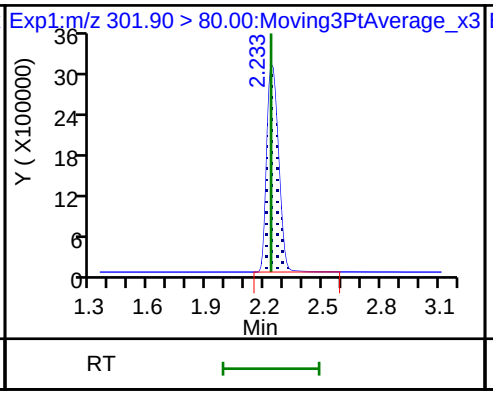
D 4 13C5 PFPeA



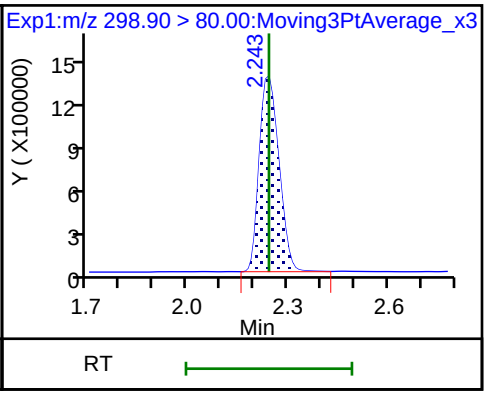
3 Perfluoropentanoic acid



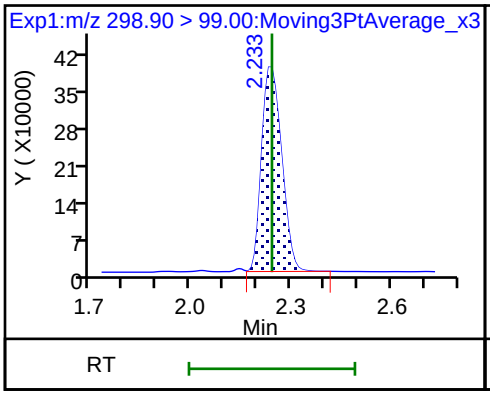
D 6 13C3 PFBS



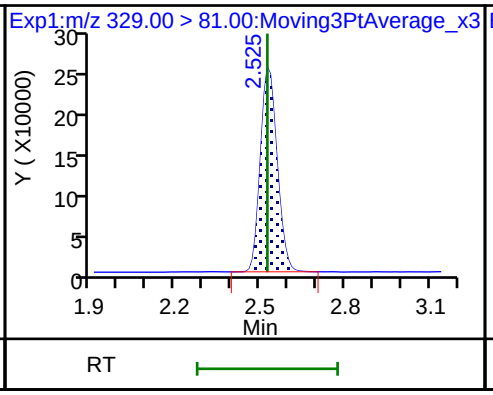
5 Perfluorobutanesulfonic acid



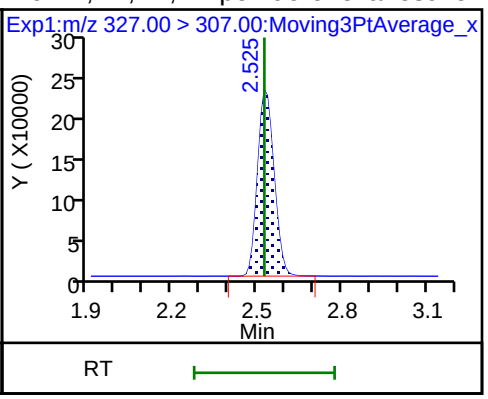
5 Perfluorobutanesulfonic acid



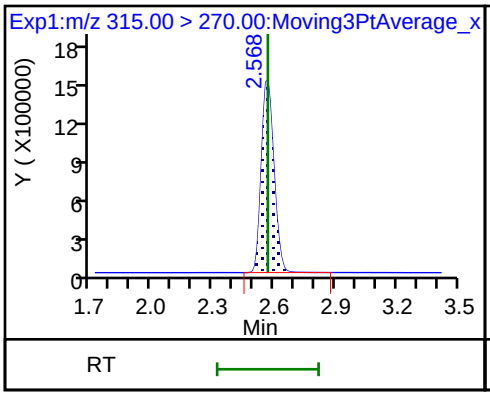
D 8 M2-4:2 FTS



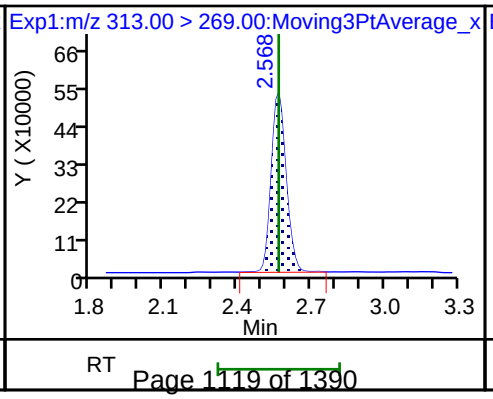
9 1H,1H,2H,2H-perfluorohexanesulfo



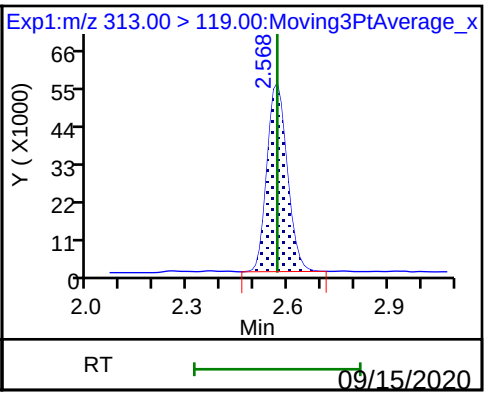
D 10 13C2 PFHxA



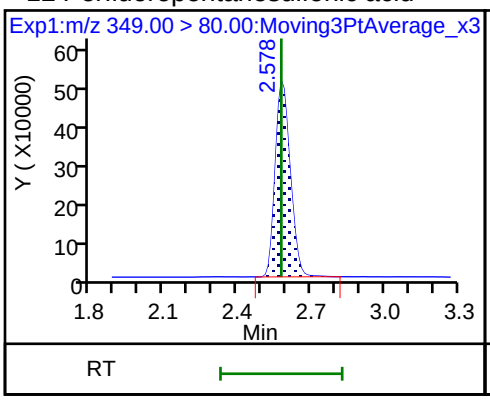
11 Perfluorohexanoic acid



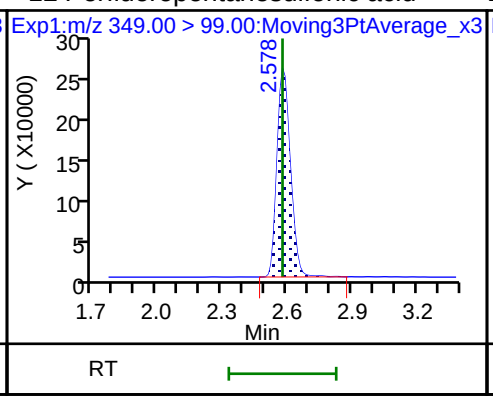
11 Perfluorohexanoic acid



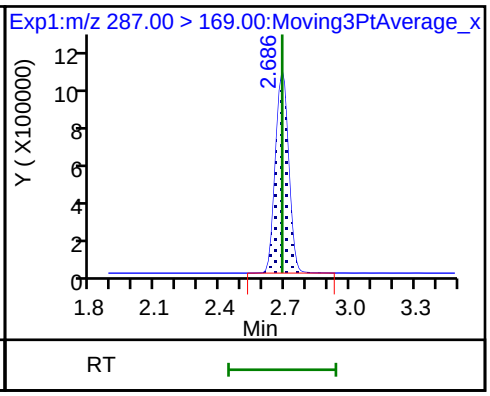
12 Perfluoropentanesulfonic acid



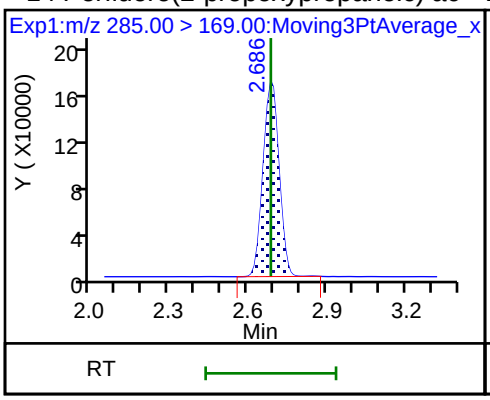
12 Perfluoropentanesulfonic acid



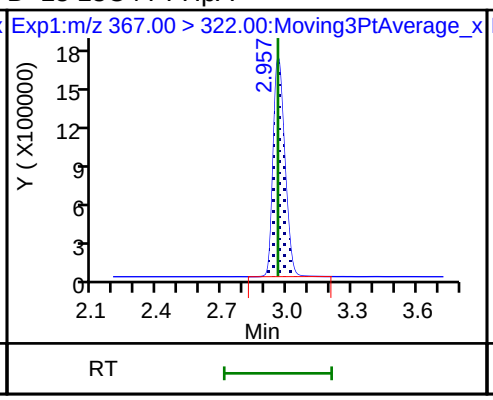
D 13 13C3 HFPO-DA



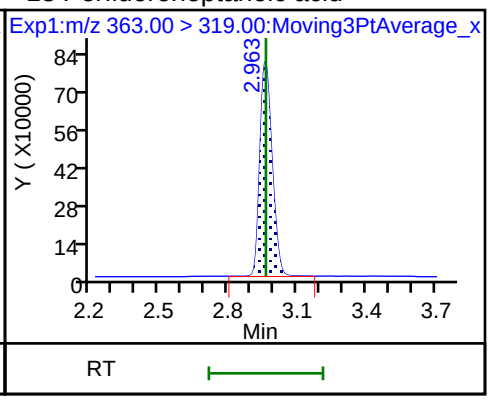
14 Perfluoro(2-propoxypropanoic) ac



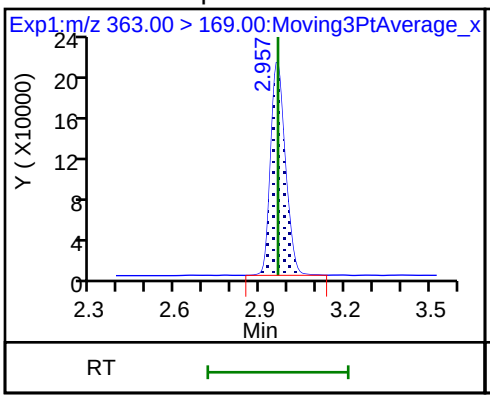
D 15 13C4 PFHpA



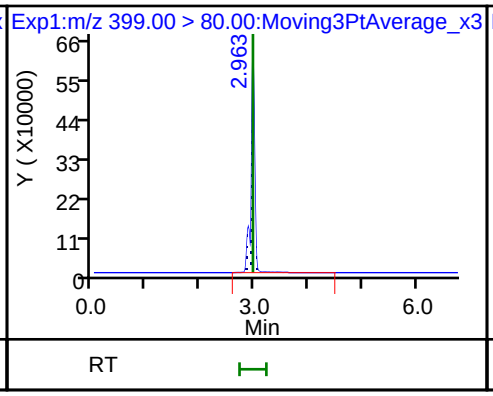
18 Perfluoroheptanoic acid



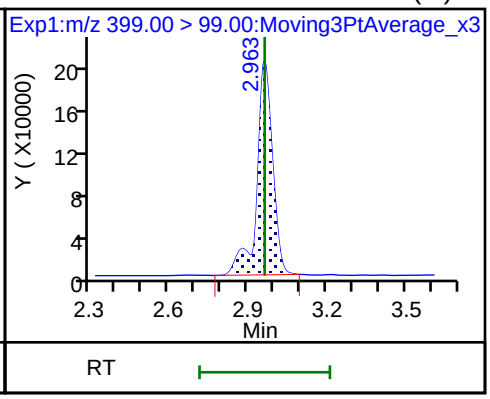
18 Perfluoroheptanoic acid



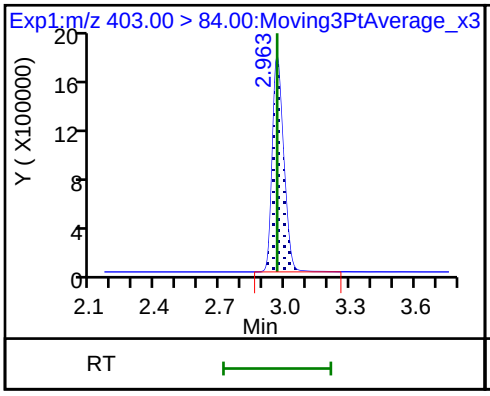
16 Perfluorohexanesulfonic acid



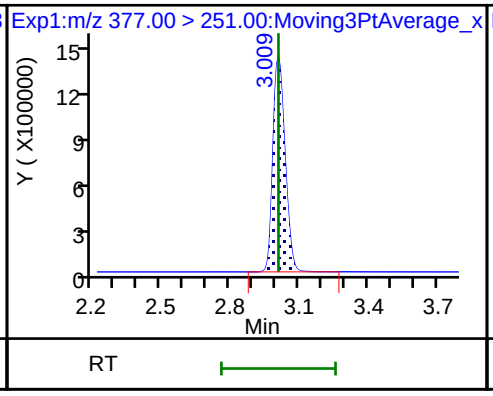
16 Perfluorohexanesulfonic acid (M)



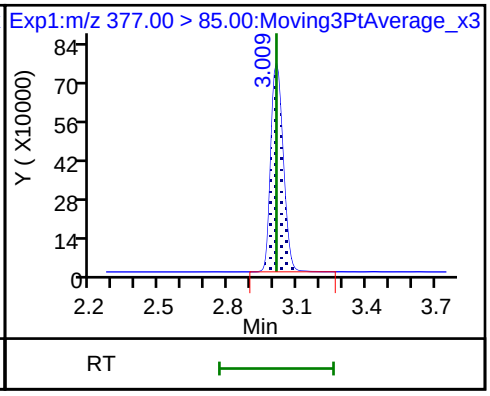
D 17 18O2 PFHxS



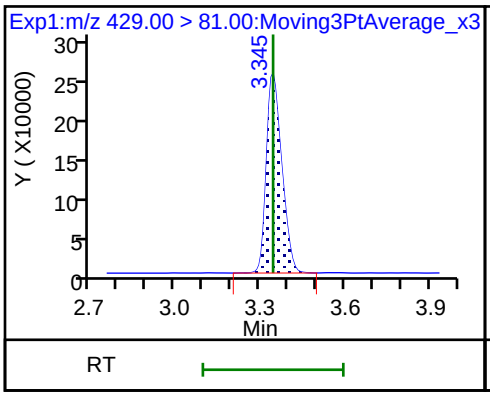
19 DONA



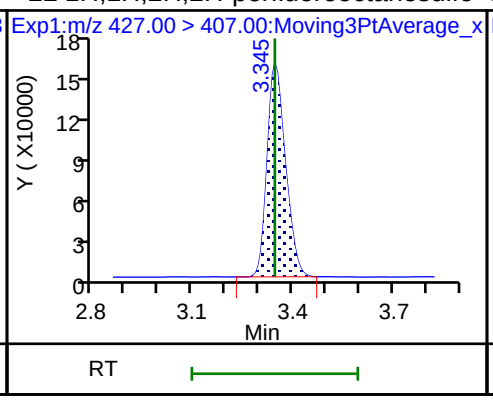
19 DONA



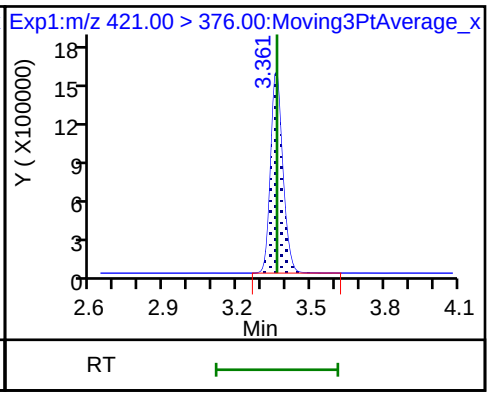
D 20 M2-6:2 FTS



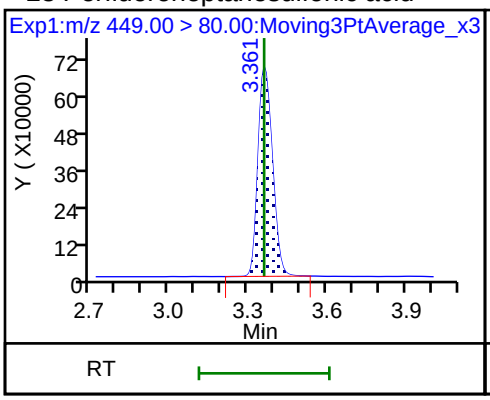
22 1H,1H,2H,2H-perfluorooctanesulfo



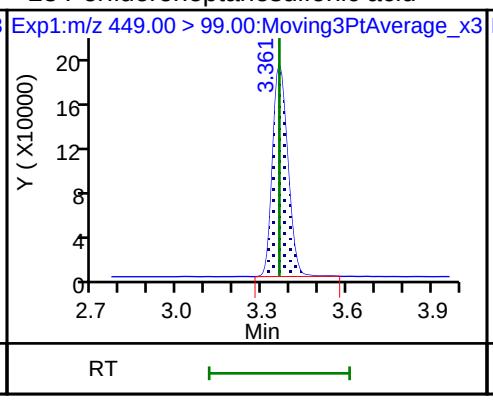
$ 21 13C8 PFOA



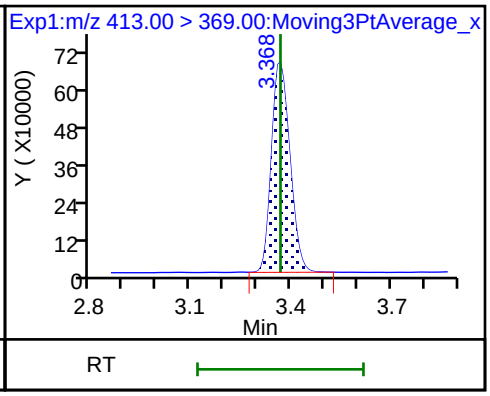
23 Perfluoroheptanesulfonic acid



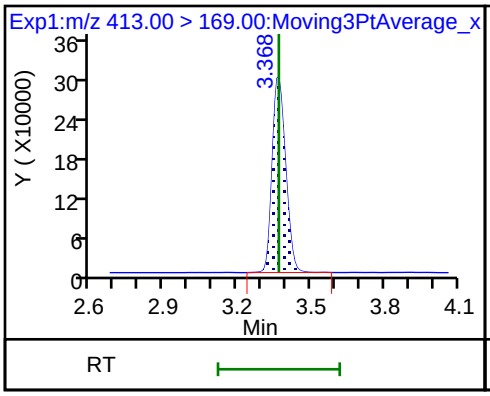
23 Perfluoroheptanesulfonic acid



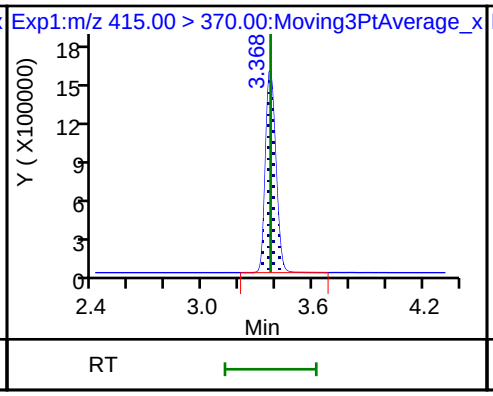
24 Perfluorooctanoic acid



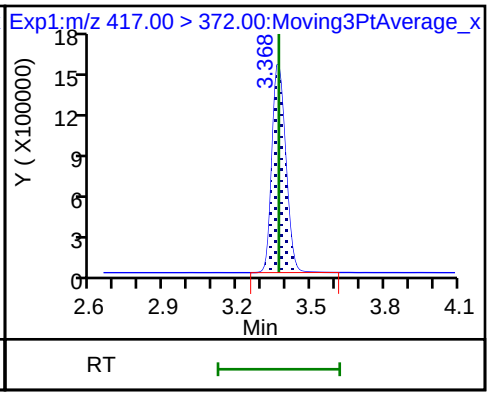
24 Perfluorooctanoic acid



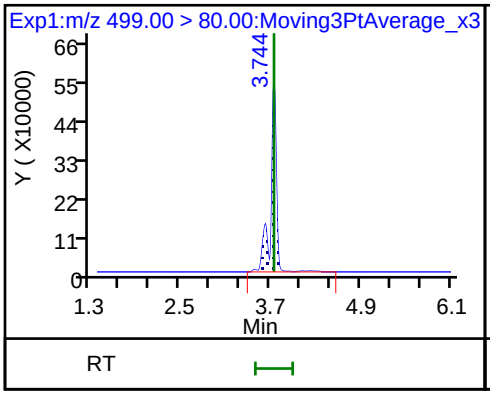
* 25 13C2 PFOA



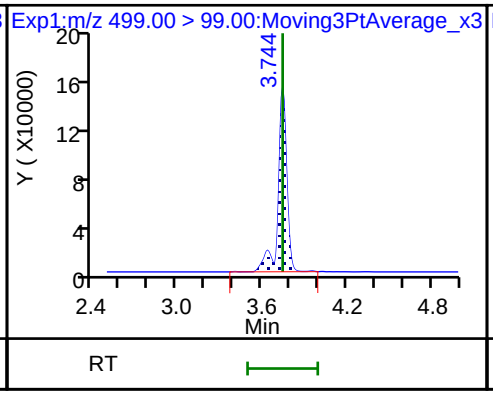
D 26 13C4 PFOA



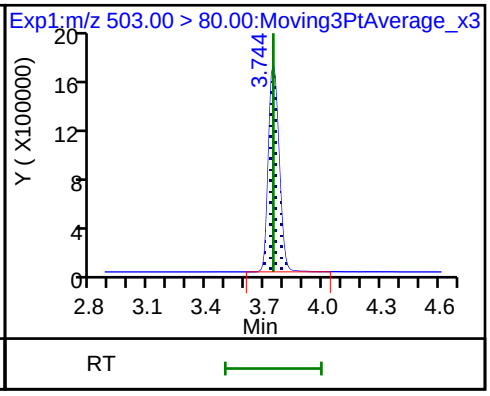
28 Perfluorooctanesulfonic acid



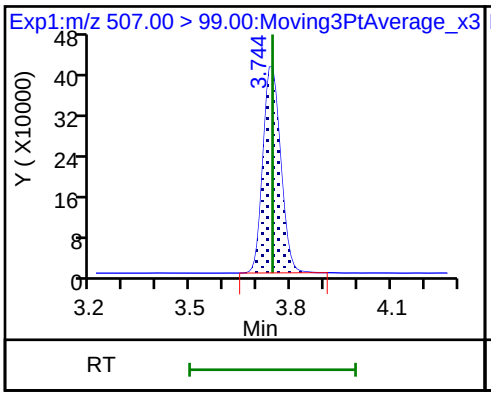
28 Perfluorooctanesulfonic acid



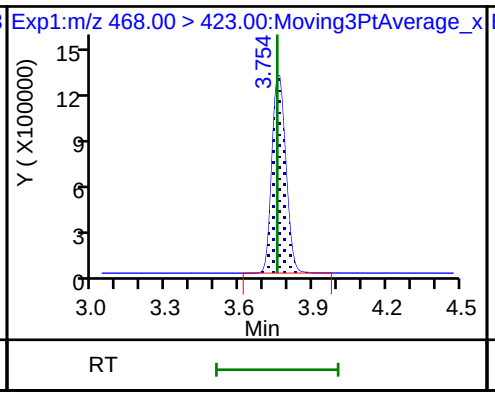
D 31 13C4 PFOS



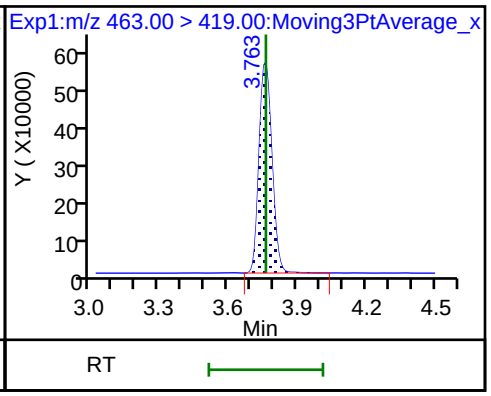
$ 27 13C8 PFOS



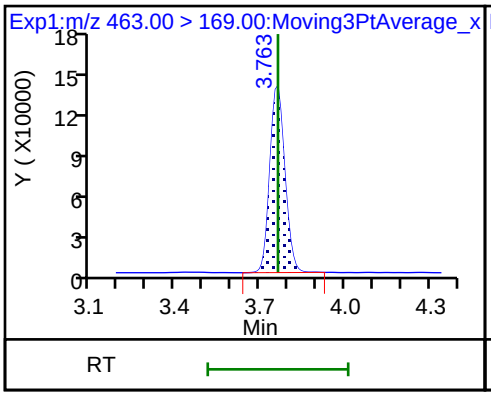
D 29 13C5 PFNA



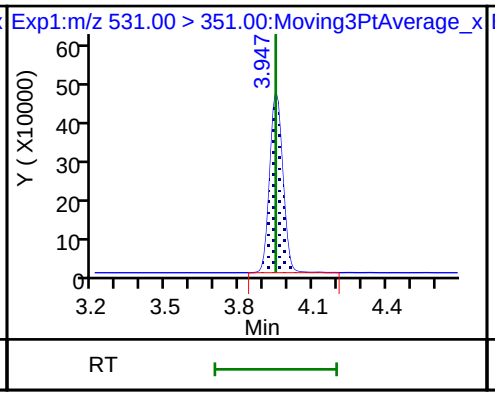
30 Perfluorononanoic acid



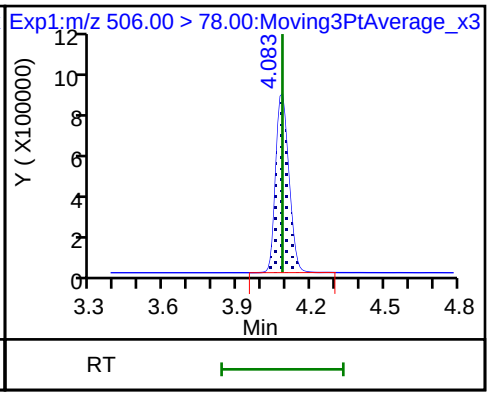
30 Perfluorononanoic acid



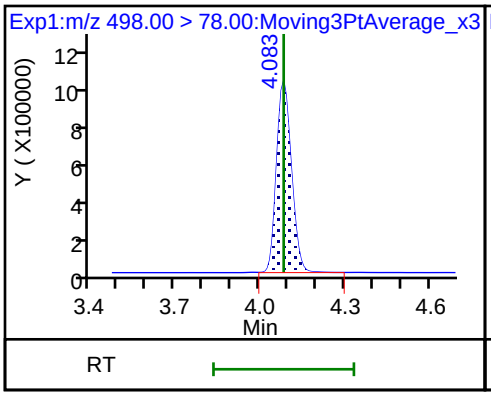
32 9-Chlorohexadecafluoro-3-oxanona



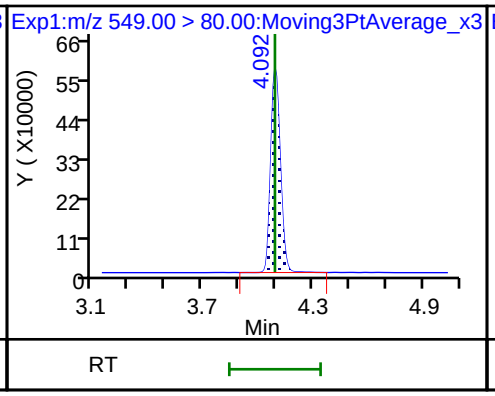
D 36 13C8 FOSA



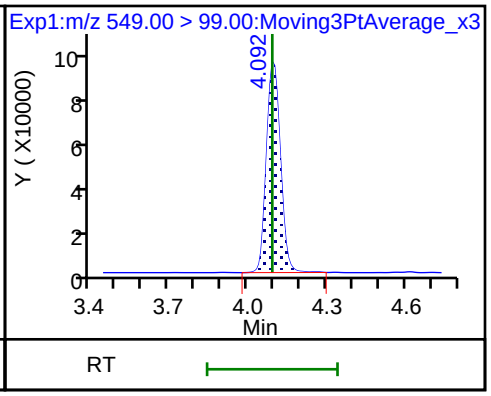
34 Perfluorooctanesulfonamide



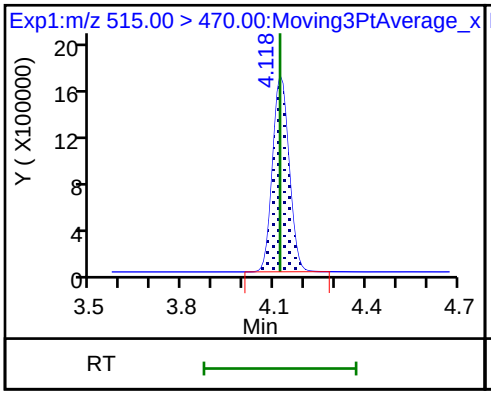
35 Perfluorononanesulfonic acid



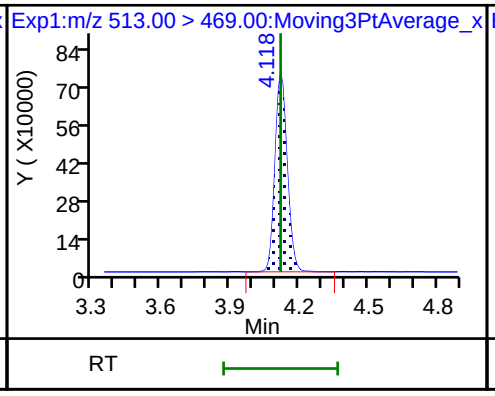
35 Perfluorononanesulfonic acid



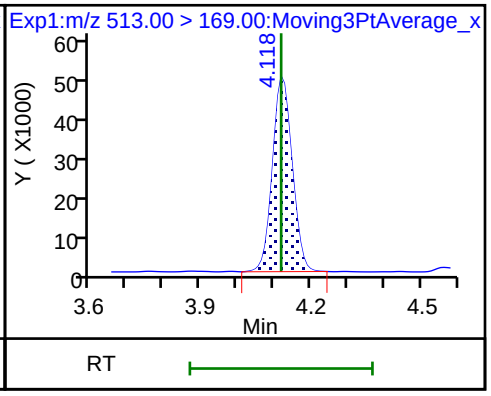
D 33 13C2 PFDA



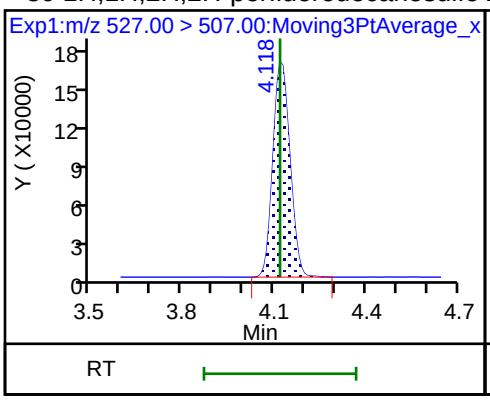
38 Perfluorodecanoic acid



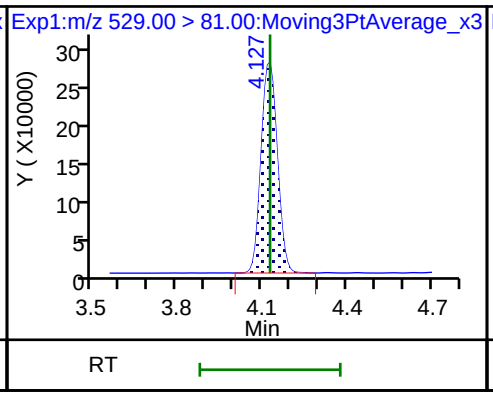
38 Perfluorodecanoic acid



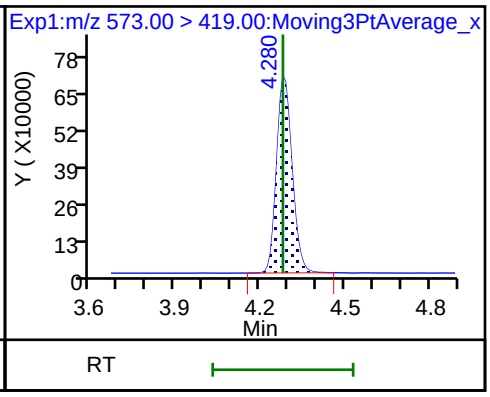
39 1H,1H,2H,2H-perfluorodecanesulfo



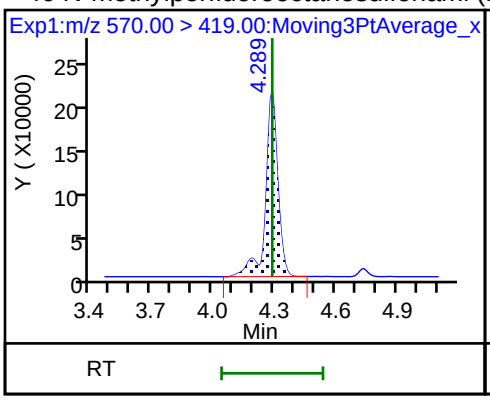
D 37 M2-8:2 FTS



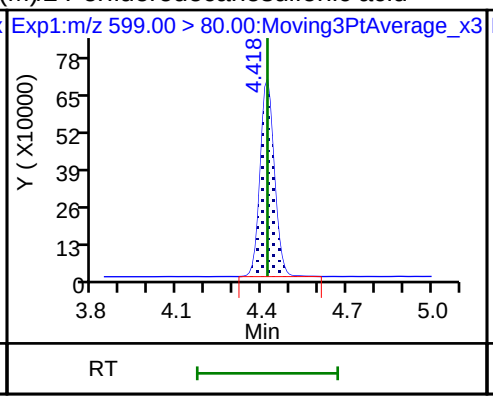
D 41 d3-NMeFOSAA



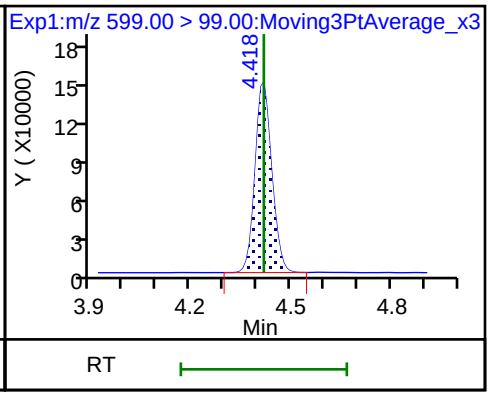
40 N-methylperfluorooctanesulfonami (M)



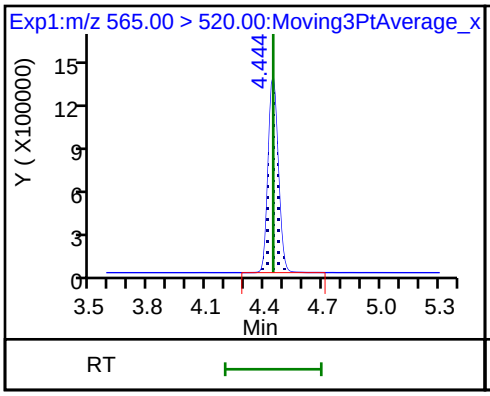
42 Perfluorodecanesulfonic acid



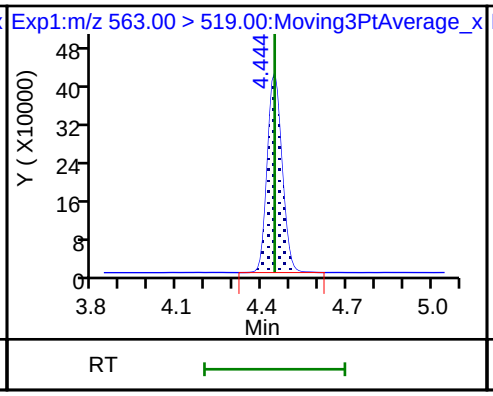
42 Perfluorodecanesulfonic acid



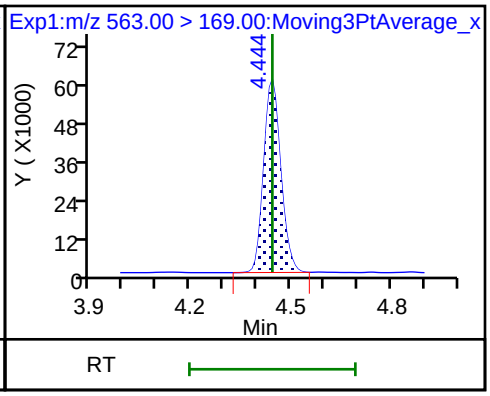
D 46 13C2 PFUnA



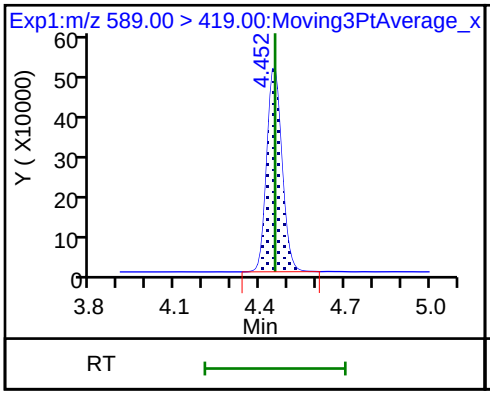
43 Perfluoroundecanoic acid



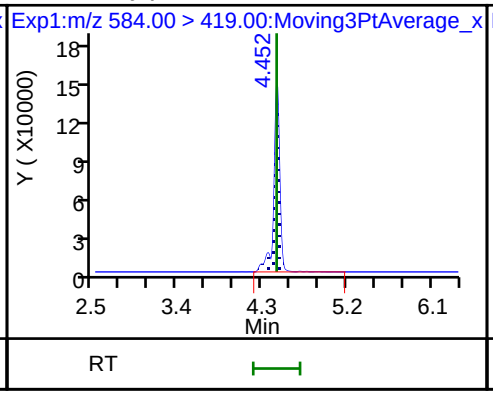
43 Perfluoroundecanoic acid



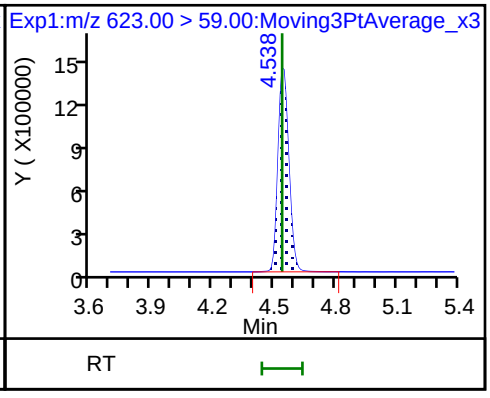
D 45 d5-NEtFOSAA



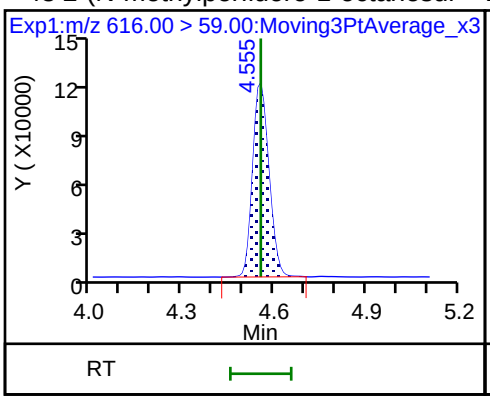
44 N-ethylperfluorooctanesulfonamid



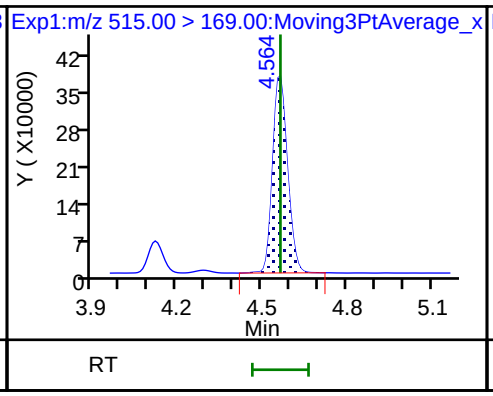
D 47 d7-N-MeFOSE-M



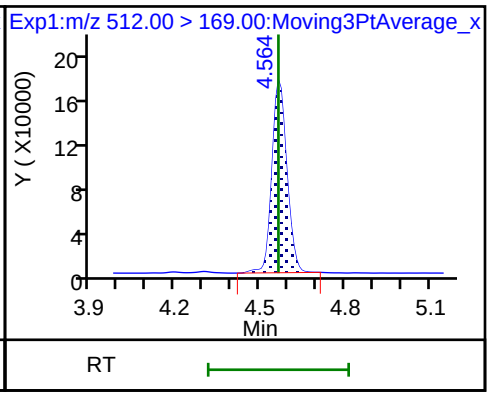
48 2-(N-methylperfluoro-1-octanesul



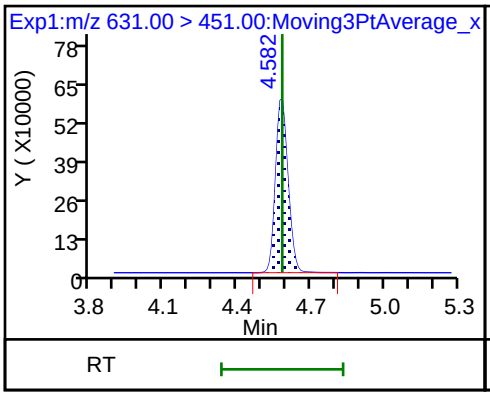
D 49 d-N-MeFOSA-M



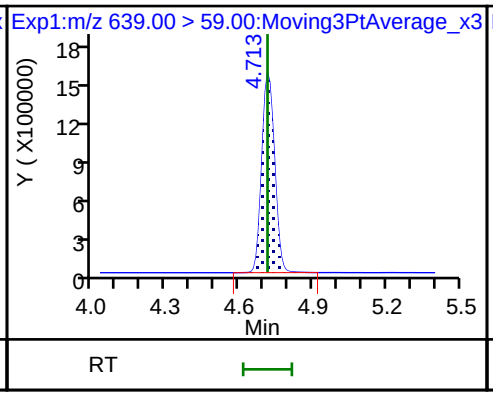
50 NMeFOSA



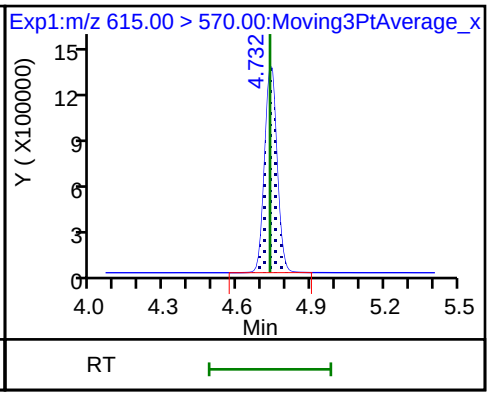
51 11-Chloroeicosafluoro-3-oxaundec



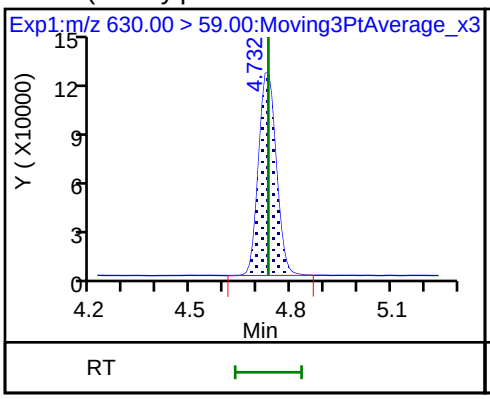
D 53 d9-N-EtFOSE-M



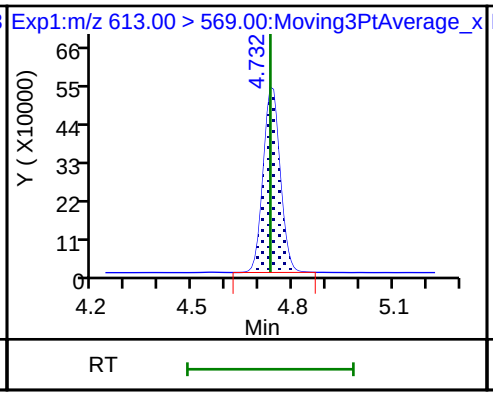
D 56 13C2 PFDoA



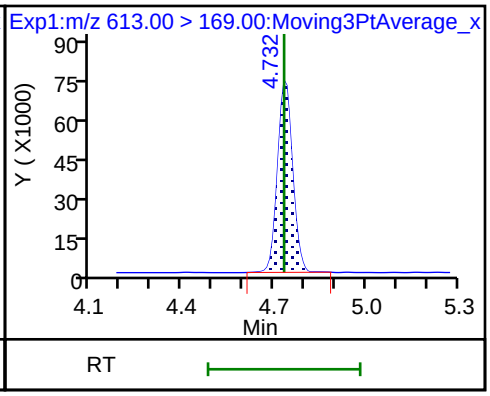
54 2-(N-ethylperfluoro-1-octanesulf



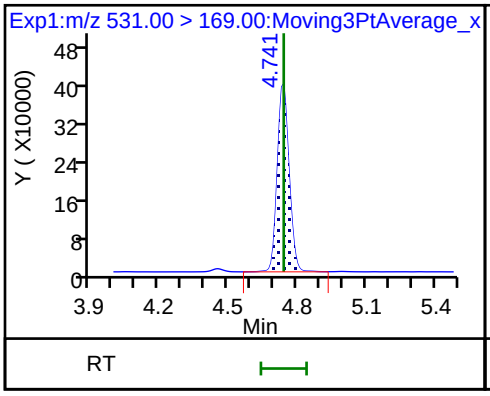
52 Perfluorododecanoic acid



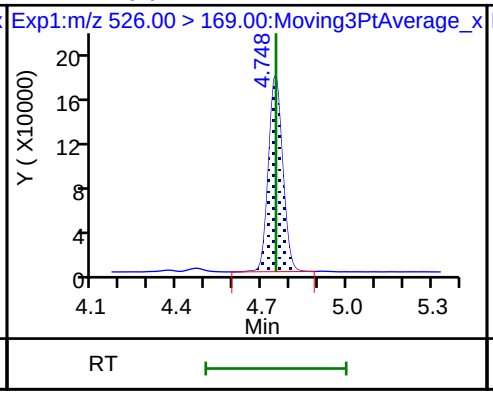
52 Perfluorododecanoic acid



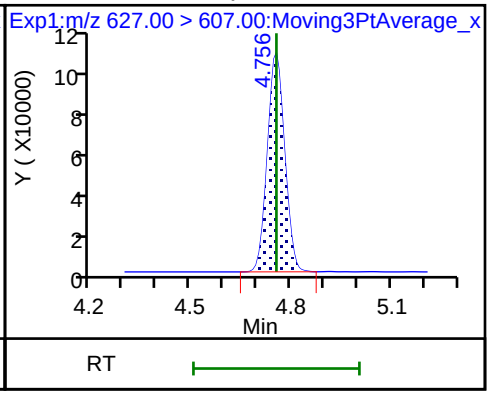
D 58 d-N-EtFOSA-M



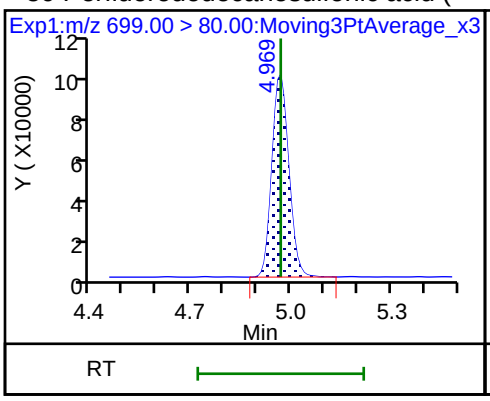
57 N-ethylperfluoro-1-octanesulfona



55 1H,1H,2H,2H-perfluorododecanesul



59 Perfluorododecanesulfonic acid (



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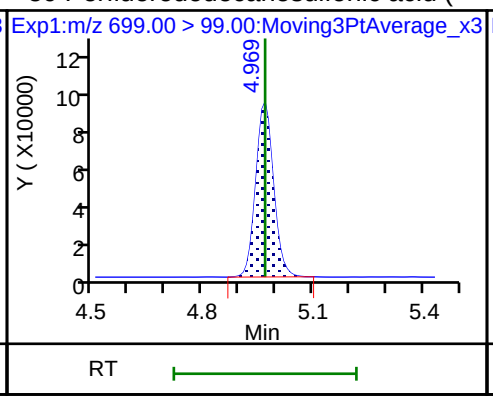
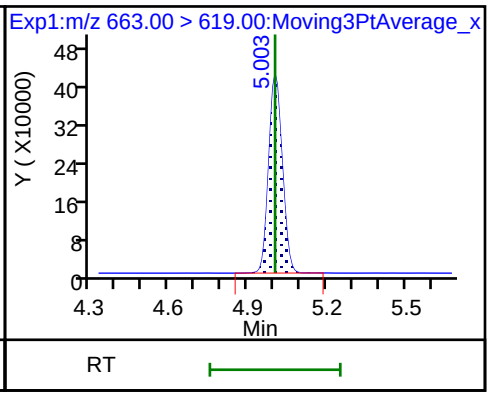
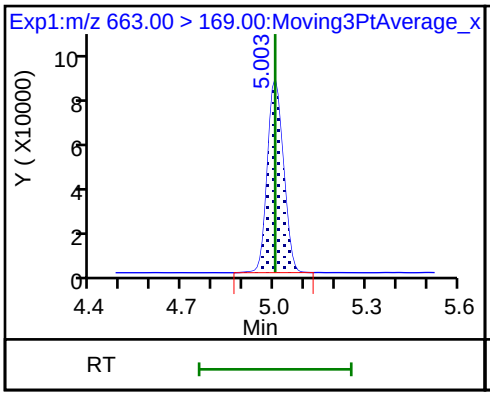


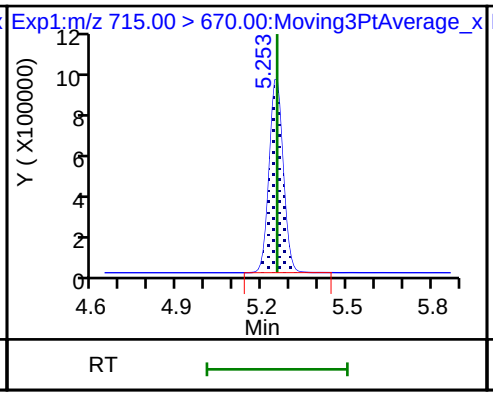
60 Perfluorotridecanoic acid



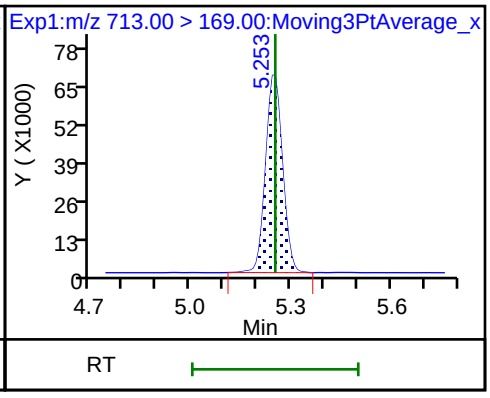
60 Perfluorotridecanoic acid



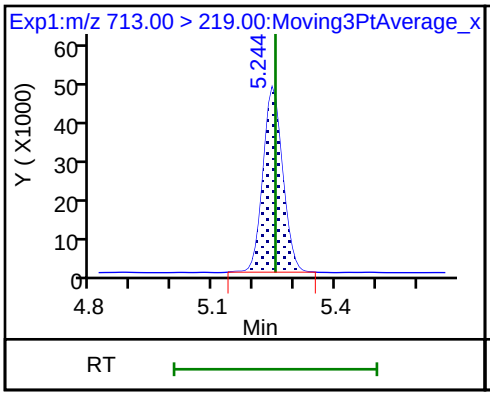
D 62 13C2 PFTeDA



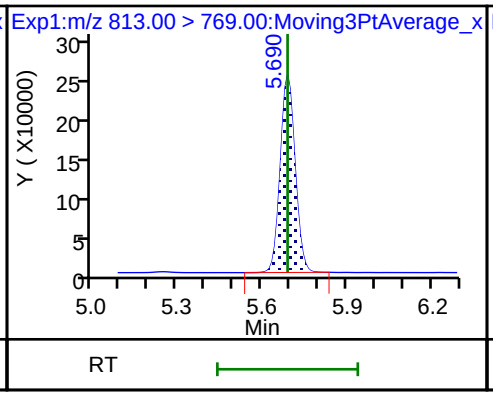
61 Perfluorotetradecanoic acid



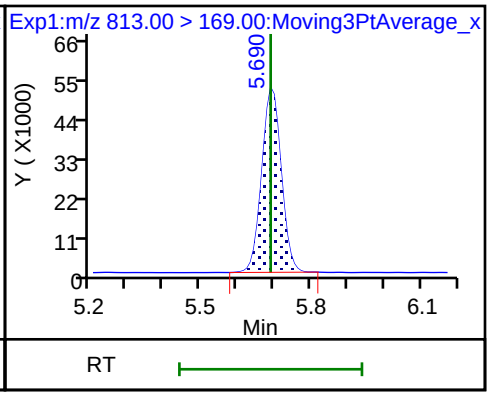
61 Perfluorotetradecanoic acid



64 Perfluorohexadecanoic acid



64 Perfluorohexadecanoic acid



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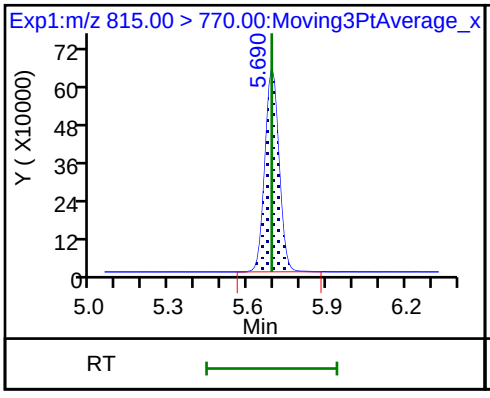

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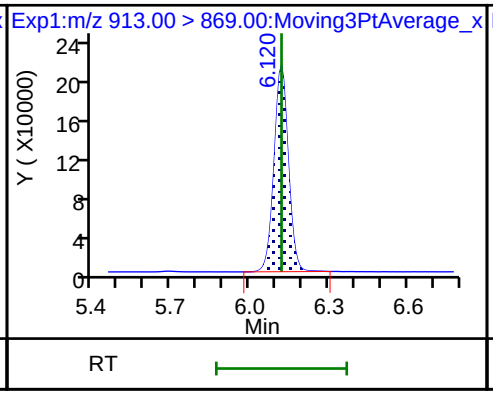
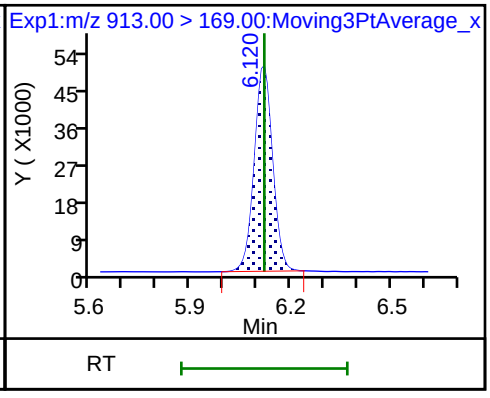


65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

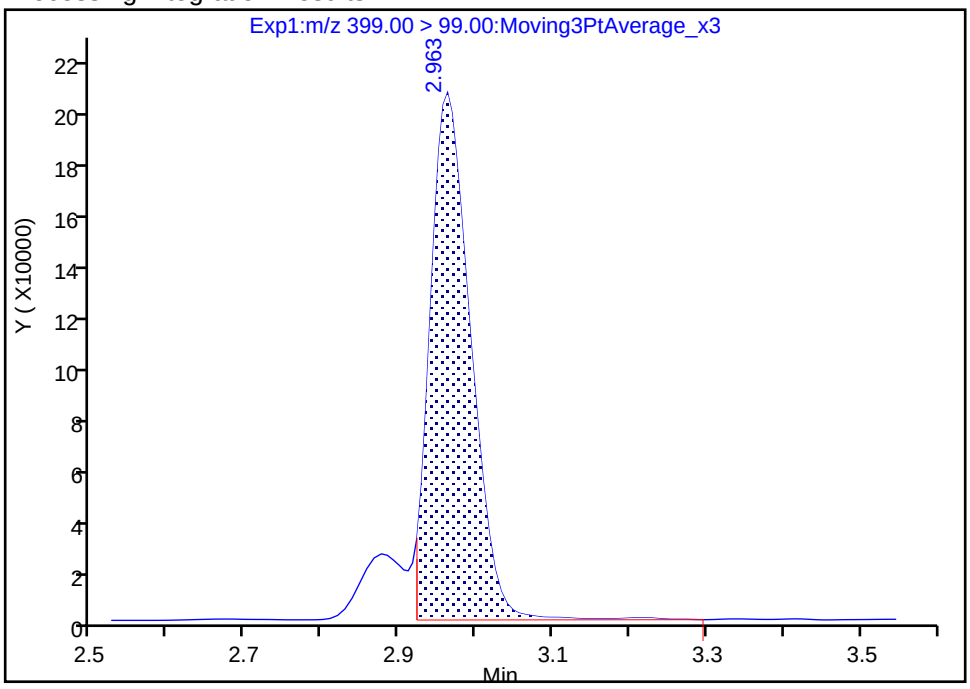
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_006.d				
Injection Date:	11-Sep-2020 09:49:21	Instrument ID:	A9		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	43	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

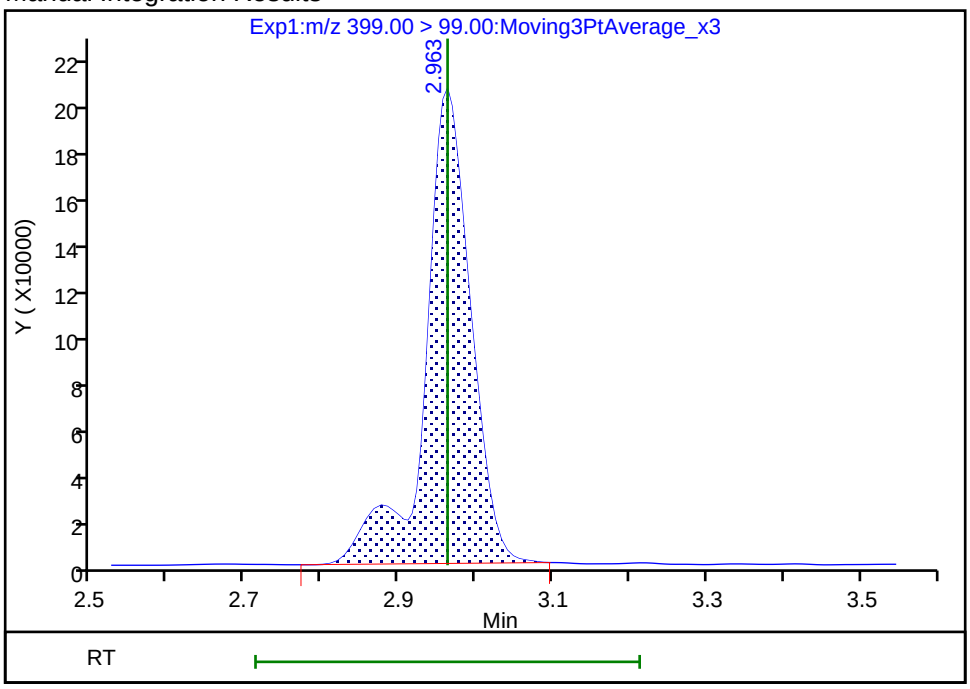
Processing Integration Results

RT: 2.96
Area: 736838
Amount: 0.873205
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 832887
Amount: 0.873205
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:31:19

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

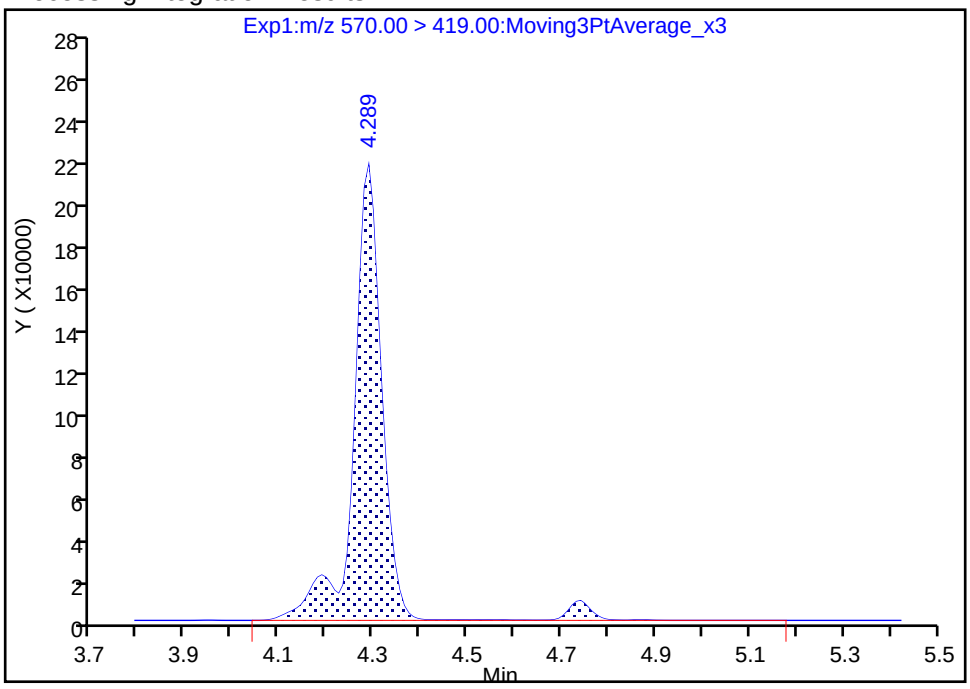
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_006.d				
Injection Date:	11-Sep-2020 09:49:21	Instrument ID:	A9		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	43	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

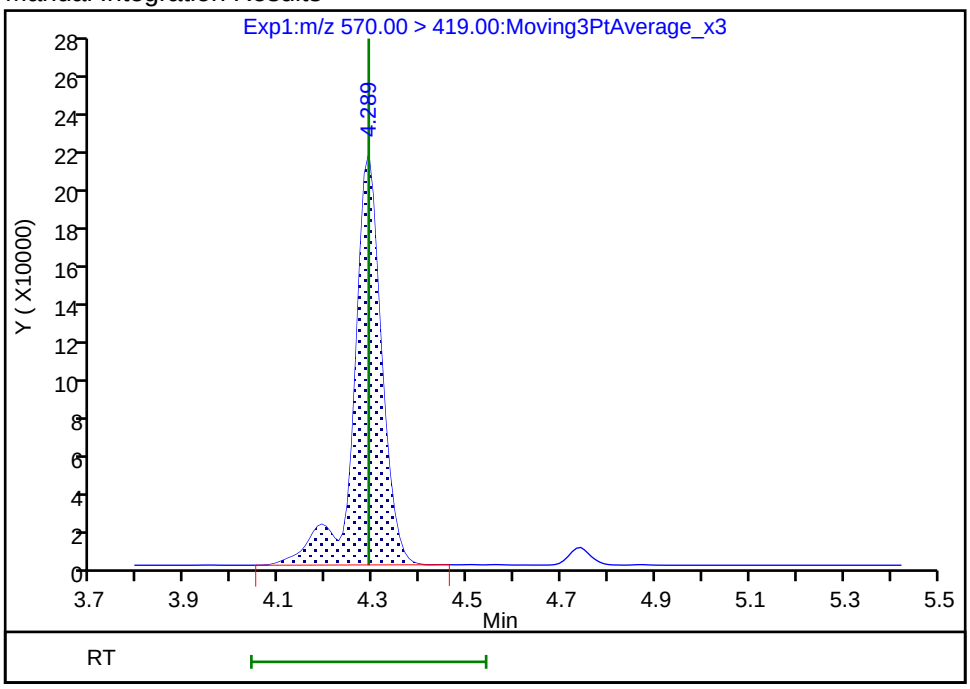
Processing Integration Results

RT: 4.29
Area: 929910
Amount: 1.145362
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 892527
Amount: 1.099318
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:31:47

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411454/1 Calibration Date: 09/11/2020 13:05

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_024.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8734	0.9897		1.13	1.00	13.3	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.018	1.131		1.11	1.00	11.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.998	1.154		1.02	0.884	15.7	50.0
4:2 FTS	AveID	1.978	2.036		0.961	0.934	2.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8343	0.9123		1.09	1.00	9.3	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.4016	0.4372		1.02	0.938	8.9	50.0
HFPO-DA (GenX)	AveID	0.3959	0.4327		1.09	1.00	9.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.109	1.177		1.06	1.00	6.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.180	1.191		0.919	0.910	0.9	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.813	2.062		1.07	0.942	13.7	50.0
6:2 FTS	AveID	1.542	1.640		1.01	0.948	6.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.9244	1.011		1.04	0.952	9.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.078	1.101		1.02	1.00	2.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.040	1.127		1.01	0.928	8.4	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.032		1.04	1.00	3.7	40.0
F-53B Major	AveID	0.6274	0.6884		1.02	0.932	9.7	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7591	0.7991		1.01	0.960	5.3	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	2.782	2.890		1.04	1.00	3.9	40.0
8:2 FTS	AveID	1.288	1.428		1.06	0.958	10.9	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.998	1.053		1.06	1.00	5.5	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7593	0.8957		1.18	1.00	18.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8492	0.9057		1.03	0.964	6.7	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6962	0.7502		1.08	1.00	7.8	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8112	0.8182		1.01	1.00	0.9	40.0
NMeFOSE	AveID	1.043	1.090		1.04	1.00	4.4	40.0
F-53B Minor	AveID	0.7398	0.9291		1.18	0.942	25.6	50.0
NMeFOSA	AveID	1.043	1.163		1.12	1.00	11.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9197	1.054		1.15	1.01	14.6	40.0
NEtFOSE	AveID	0.9939	1.013		1.02	1.00	2.0	40.0
10:2 FTS	AveID	0.8214	0.9115		1.07	0.964	11.0	50.0
NEtFOSA	AveID	0.995	1.131		1.14	1.00	13.6	40.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.1269	0.1233		0.941	0.968	-2.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411454/1 Calibration Date: 09/11/2020 13:05

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_024.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.7267	0.8525		1.17	1.00	17.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1764	0.1817		1.03	1.00	3.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9894		1.06	1.00	6.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7480	0.7771		1.04	1.00	3.9	50.0
13C4 PFBA	Ave	1.350	1.347		2.50	2.50	-0.2	50.0
13C5 PFPeA	Ave	1.138	1.053		2.31	2.50	-7.5	50.0
13C3 PFBS	Ave	2.249	2.271		2.35	2.33	1.0	50.0
M2-4:2 FTS	Ave	0.2233	0.2139		2.24	2.34	-4.2	50.0
13C2 PFHxA	Ave	1.058	0.999		2.36	2.50	-5.6	50.0
13C3 HFPO-DA	Ave	0.7264	0.7124		2.45	2.50	-1.9	50.0
13C4 PFHpA	Ave	1.030	1.030		2.50	2.50	0.0	50.0
18O2 PFHxS	Ave	1.076	1.108		2.44	2.37	3.0	50.0
M2-6:2 FTS	Ave	0.1925	0.1880		2.32	2.38	-2.4	50.0
13C4 PFOA	Ave	0.9654	0.9924		2.57	2.50	2.8	50.0
13C4 PFOS	Ave	1.123	1.160		2.47	2.39	3.4	50.0
13C5 PFNA	Ave	0.8376	0.9217		2.75	2.50	10.0	50.0
13C8 FOSA	Ave	0.5280	0.5636		2.67	2.50	6.7	50.0
13C2 PFDA	Ave	1.063	1.120		2.63	2.50	5.3	50.0
M2-8:2 FTS	Ave	0.2357	0.2297		2.33	2.40	-2.6	50.0
d3-NMeFOSAA	Ave	0.5286	0.4544		2.15	2.50	-14.0	50.0
13C2 PFUnA	Ave	0.8198	0.8316		2.54	2.50	1.4	50.0
d5-NEtFOSAA	Ave	0.3541	0.3411		2.41	2.50	-3.7	50.0
d7-N-MeFOSE-M	Ave	0.1700	0.1717		12.6	12.5	1.0	50.0
d-N-MeFOSA-M	Ave	0.2378	0.2314		2.43	2.50	-2.7	50.0
13C2 PFDoA	Ave	0.8051	0.7565		2.35	2.50	-6.0	50.0
d9-N-EtFOSE-M	Ave	0.1785	0.1817		12.7	12.5	1.8	50.0
d-N-EtFOSA-M	Ave	0.2469	0.2394		2.43	2.50	-3.0	50.0
13C2 PFTeDA	Ave	0.5615	0.5374		2.39	2.50	-4.3	50.0
13C2 PFHxDA	Ave	0.4152	0.4131		2.49	2.50	-0.5	50.0
13C8 PFOA	Ave	0.8088	0.9812		2.97	2.45	21.3	50.0
13C8 PFOS	Ave	0.2542	0.2540		2.39	2.39	-0.0	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Sep-2020 13:05:37 ALS Bottle#: 43 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 14:25:41 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 14:25:41
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.893	1.893	0.0	0.566	8088479	2.50		99.8	2730	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.893	1.893	0.0	1.000	3202060	1.13		113	104	
D 4 13C5 PFPeA										
267.90 > 223.00	2.198	2.198	0.0	0.657	6322392	2.31		92.5	2269	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.198	2.198	0.0	1.000	2860733	1.11		111	119	
D 6 13C3 PFBS										
301.90 > 80.00	2.223	2.223	0.0	0.665	12676227	2.35		101	2933	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.233	2.233	0.0	1.004	5561009	1.02	Target=3.10	116	450	
298.90 > 99.00	2.223	2.233	-0.010	1.000	1694614		3.28(1.55-4.65)		266	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.514	2.514	0.0	1.000	976694	0.9614		103	3844	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.514	2.514	0.0	0.752	1199282	2.24		95.8	588	
D 10 13C2 PFHxA										
315.00 > 270.00	2.557	2.557	0.0	0.764	5996693	2.36		94.4	2179	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.557	2.557	0.0	1.000	2188200	1.09	Target=9.68	109	162	
313.00 > 119.00	2.557	2.557	0.0	1.000	209885		10.43(4.84-14.52)		121	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.568	2.568	0.0	1.155	2235969	1.02	Target=2.01	109	534	
349.00 > 99.00	2.568	2.568	0.0	1.155	1078674		2.07(1.00-3.01)		461	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.673	2.673	0.0	0.799	4276237	2.45		98.1	2883	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.673	2.673	0.0	1.000	740160	1.09		109	1565	
D 15 13C4 PFHpA										
367.00 > 322.00	2.940	2.940	0.0	0.879	6185305	2.50		100	3085	
D 17 18O2 PFHxS										
403.00 > 84.00	2.946	2.946	0.0	0.881	6291389	2.44		103	3138	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.946	2.946	0.0	1.000	2882465	0.9186	Target=3.29	101	578	
399.00 > 99.00	2.946	2.946	0.0	1.000	825621		3.49(1.65-4.94)		331	M
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.946	2.946	0.0	1.002	2910864	1.06	Target=3.74	106	314	
363.00 > 169.00	2.946	2.946	0.0	1.002	778060		3.74(1.87-5.61)		565	
19 DONA										
377.00 > 251.00	2.993	2.993	0.0	0.805	5411667	1.07	Target=1.80	114	3194	
377.00 > 85.00	2.993	2.993	0.0	0.805	2879803		1.88(0.90-2.70)		1839	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.324	3.324	0.0	0.994	1071788	2.32		97.6	832	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.331	3.331	0.0	1.002	701764	1.01		106	554	
$ 21 13C8 PFOA										
421.00 > 376.00	3.338	3.338	0.0	0.998	5765790	2.97		121	7375	
D 26 13C4 PFOA										
417.00 > 372.00	3.345	3.345	0.0	1.000	5956847	2.57		103	4488	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.345	3.345	0.0	1.000	2625058	1.02	Target=2.37	102	412	
413.00 > 169.00	3.345	3.345	0.0	1.000	1075558		2.44(1.19-3.56)		777	
* 25 13C2 PFOA										
415.00 > 370.00	3.345	3.345	0.0		6002612	2.50			4308	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.345	3.345	0.0	0.899	2682616	1.04	Target=3.65	109	759	
449.00 > 99.00	3.345	3.345	0.0	0.899	730559		3.67(1.83-5.48)		857	
D 31 13C4 PFOS										
503.00 > 80.00	3.720	3.720	0.0	1.112	6659447	2.47		103	1677	
$ 27 13C8 PFOS										
507.00 > 99.00	3.720	3.720	0.0	1.112	1457678	2.39		99.9	2985	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.727	3.727	0.0	1.002	2914364	1.01	Target=4.12	108	341	
499.00 > 99.00	3.727	3.727	0.0	1.002	651844		4.47(2.06-6.17)		585	M
D 29 13C5 PFNA										
468.00 > 423.00	3.735	3.735	0.0	1.117	5532577	2.75		110	5003	
30 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.735	0.0	1.000	2289418	1.04	Target=4.21	104	478	
463.00 > 169.00	3.735	3.735	0.0	1.000	536653		4.27(2.11-6.32)		696	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.056	1787816	1.02		110	2480	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.074	0.0	1.000	3910139	1.04		104	2778	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.074	4.074	0.0	1.095	2137515	1.01	Target=5.56	105	1040	
549.00 > 99.00	4.074	4.074	0.0	1.095	382975		5.58(2.78-8.34)		1197	
D 36 13C8 FOSA										
506.00 > 78.00	4.074	4.074	0.0	1.218	3382778	2.67		107	2361	
D 33 13C2 PFDA										
515.00 > 470.00	4.100	4.100	0.0	1.226	6720362	2.63		105	5401	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.100	4.100	0.0	1.000	2829475	1.05	Target=14.33	105	1149	
513.00 > 169.00	4.100	4.100	0.0	1.000	196129		14.43(7.16-21.49)		280	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.100	4.100	0.0	1.000	754551	1.06		111	2226	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.100	4.100	0.0	1.226	1320745	2.33		97.4	759	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.262	4.262	0.0	1.274	2727534	2.15		86.0	1748	
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.271	4.271	0.0	1.002	977265	1.18		118	198	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.392	4.392	0.0	1.181	2432844	1.03	Target=4.29	107	867	
599.00 > 99.00	4.392	4.392	0.0	1.181	553477		4.40(2.15-6.44)		1171	
D 46 13C2 PFUnA										
565.00 > 520.00	4.418	4.418	0.0	1.321	4991585	2.54		101	7073	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.418	4.418	0.0	1.000	1499302	1.08	Target=6.74	108	1448	
563.00 > 169.00	4.426	4.418	0.008	1.002	236125		6.35(3.37-10.11)		731	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.426	4.426	0.0	1.323	2047290	2.41		96.3	2204	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.435	4.435	0.0	1.002	670010	1.01		101	1086	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.538	4.538	0.0	1.356	5153249	12.6		101	2667	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.546	4.546	0.0	1.002	449229	1.04		104	640	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.555	4.555	0.0	1.362	1388979	2.43		97.3	223	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.555	4.555	0.0	1.225	2438709	1.18		126	3963	
50 NMeFOSA										
512.00 > 169.00	4.564	4.564	0.0	1.002	646067	1.11		111	1043	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.713	4.713	0.0	1.409	5454766	12.7		102	1792	
D 56 13C2 PFDoA										
615.00 > 570.00	4.713	4.713	0.0	1.409	4540903	2.35		94.0	5622	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.713	4.713	0.0	1.000	1925613	1.15	Target=6.67	115	1623	
613.00 > 169.00	4.713	4.713	0.0	1.000	266344		7.23(3.34-10.01)		1190	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.722	4.722	0.0	1.002	442258	1.02		102	636	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.731	4.731	0.0	1.154	484564	1.07		111	3729	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.731	4.731	0.0	1.414	1437255	2.42		97.0	950	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.740	4.740	0.0	1.002	649941	1.14		114	707	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.944	4.944	0.0	1.329	332604	0.9410	Target=1.02	97.2	511	
699.00 > 99.00	4.944	4.944	0.0	1.329	338707		0.98(0.51-1.53)		1587	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.977	4.977	0.0	1.056	1548450	1.17	Target=4.80	117	2773	
663.00 > 169.00	4.977	4.977	0.0	1.056	302778		5.11(2.40-7.20)		1888	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.219	5.219	0.0	1.560	3225747	2.39		95.7	4540	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.219	5.219	0.0	1.000	234707	1.03	Target=1.37	103	1389	
713.00 > 219.00	5.219	5.219	0.0	1.000	186056		1.26(0.69-2.06)		967	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.652	5.652	0.0	1.000	981454	1.06	Target=4.63	106	2392	
813.00 > 169.00	5.652	5.652	0.0	1.000	214119		4.58(2.32-6.95)		1321	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.652	5.652	0.0	1.690	2479919	2.49		99.5	5233	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.063	6.063	0.0	1.073	770887	1.04	Target=4.01	104	1288	
913.00 > 169.00	6.063	6.063	0.0	1.073	181454		4.25(2.01-6.02)		940	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 14:25:43 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d

Injection Date: 11-Sep-2020 13:05:37 Instrument ID: A9

Lims ID: CCV L4

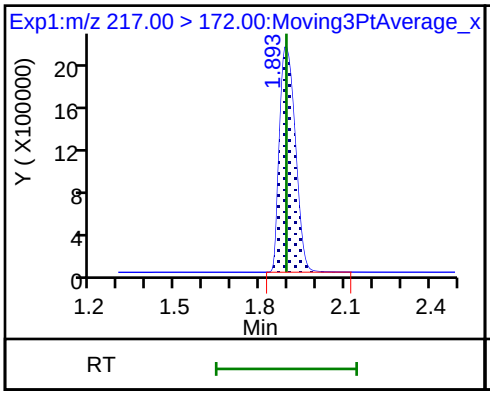
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 43 Worklist Smp#: 1

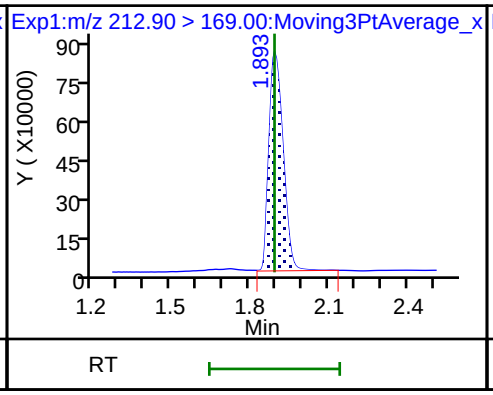
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

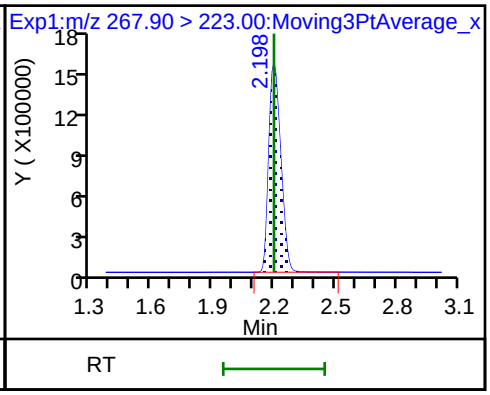
D 1 13C4 PFBA



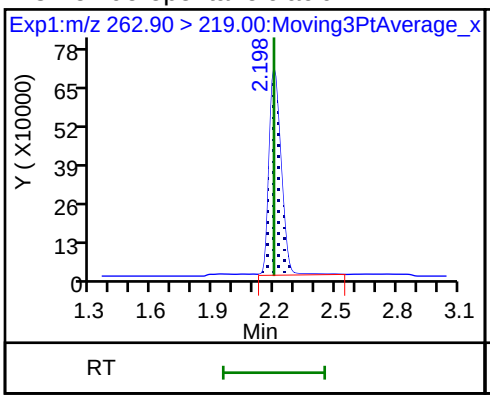
2 Perfluorobutanoic acid



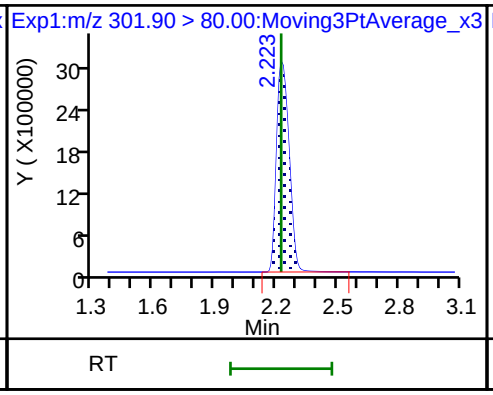
D 4 13C5 PFPeA



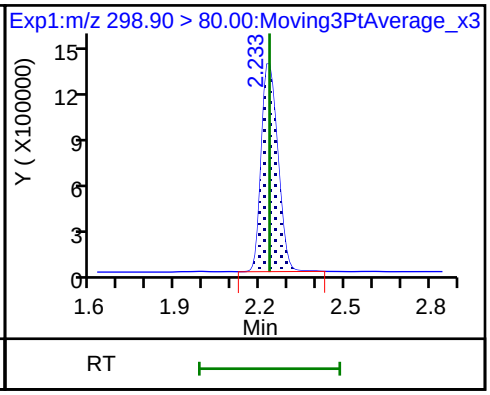
3 Perfluoropentanoic acid



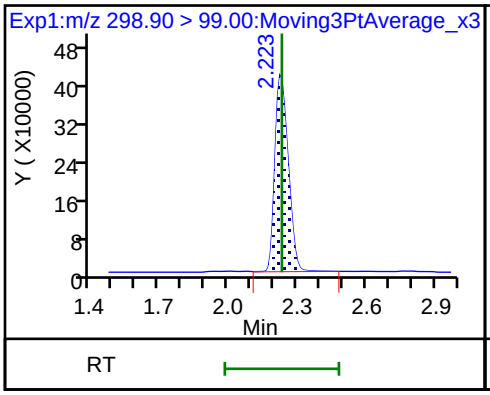
D 6 13C3 PFBS



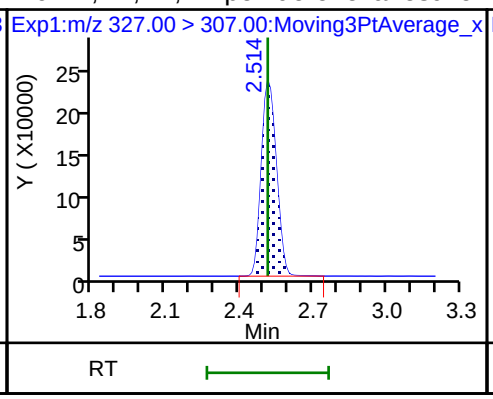
5 Perfluorobutanesulfonic acid



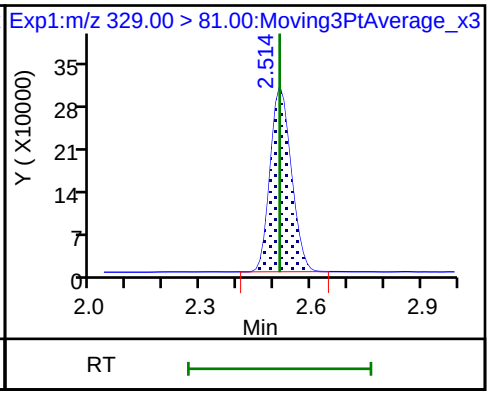
5 Perfluorobutanesulfonic acid



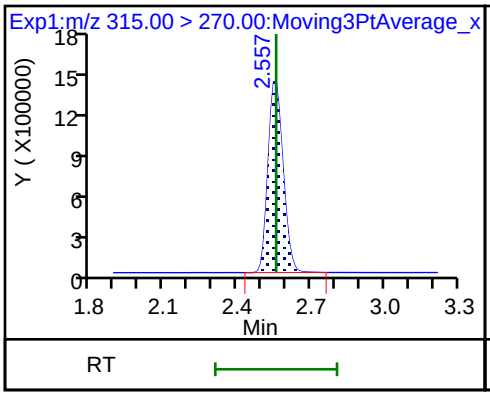
9 1H,1H,2H,2H-perfluorohexanesulfo



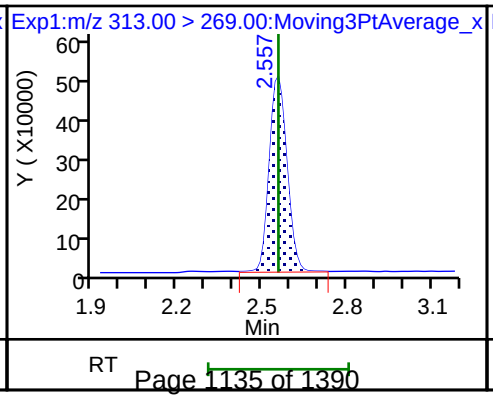
D 8 M2-4:2 FTS



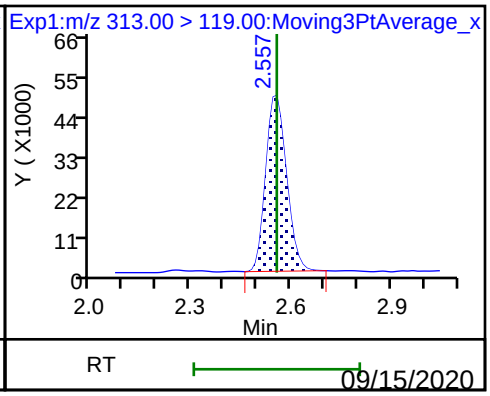
D 10 13C2 PFHxA



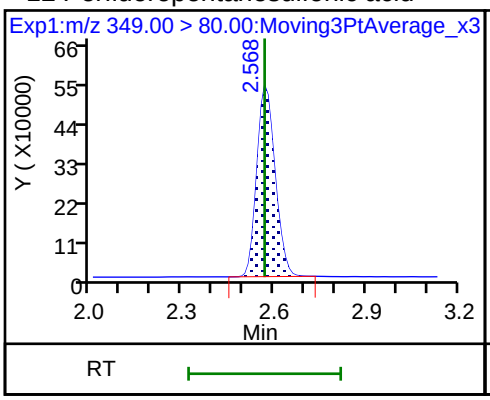
11 Perfluorohexanoic acid



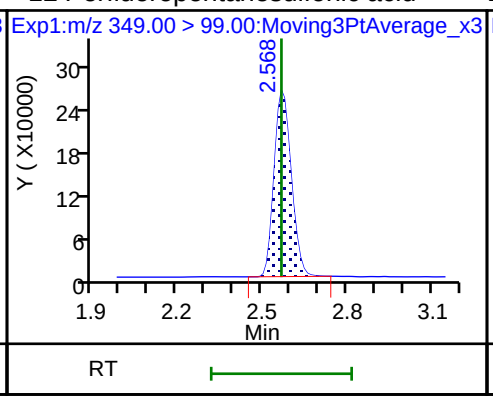
11 Perfluorohexanoic acid



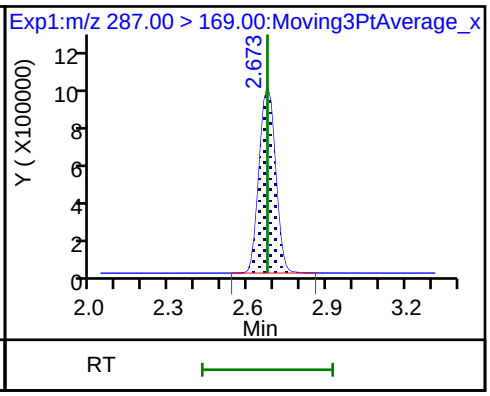
12 Perfluoropentanesulfonic acid



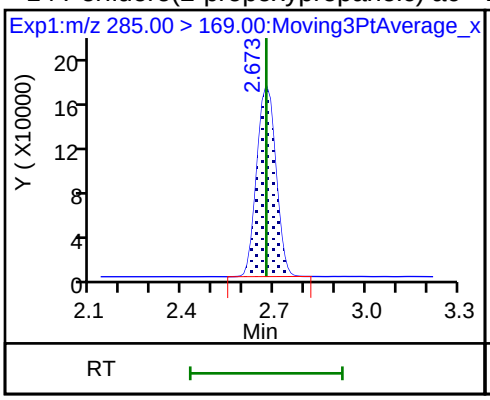
12 Perfluoropentanesulfonic acid



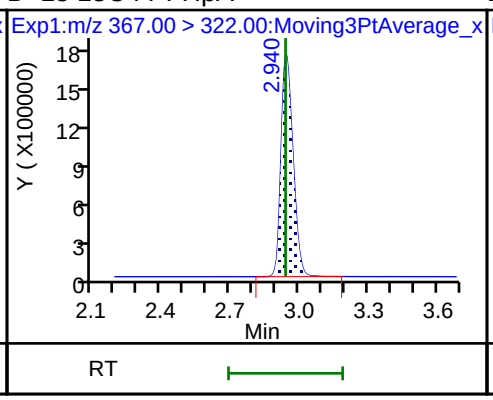
D 13 13C3 HFPO-DA



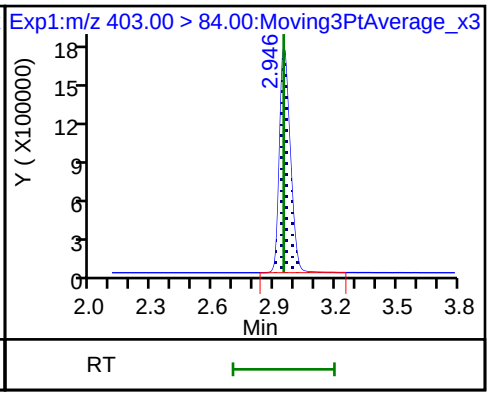
14 Perfluoro(2-propoxypropanoic) ac



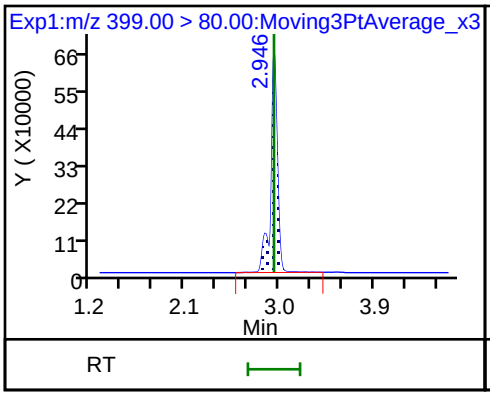
D 15 13C4 PFHpA



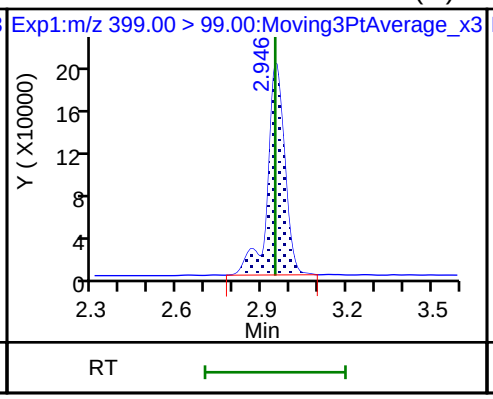
D 17 18O2 PFHxS



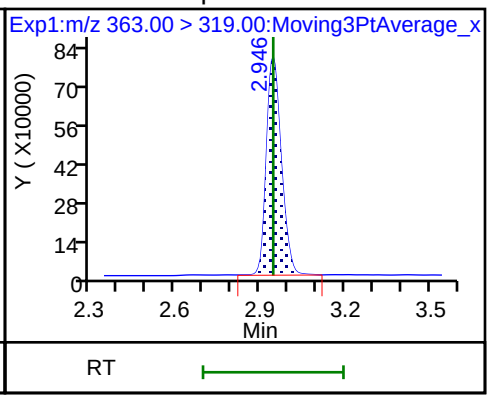
16 Perfluorohexanesulfonic acid



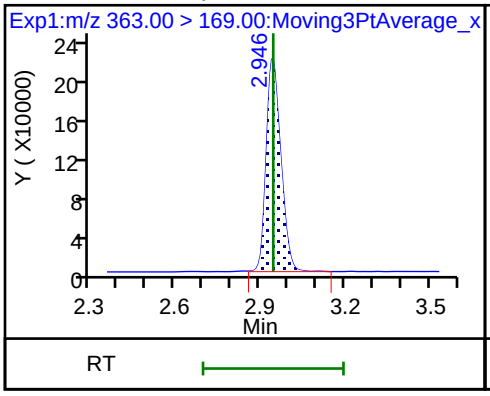
16 Perfluorohexanesulfonic acid (M)



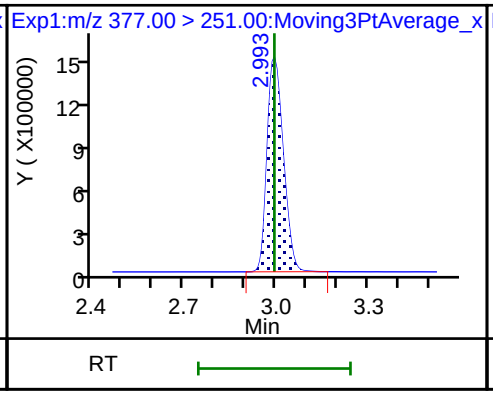
18 Perfluoroheptanoic acid



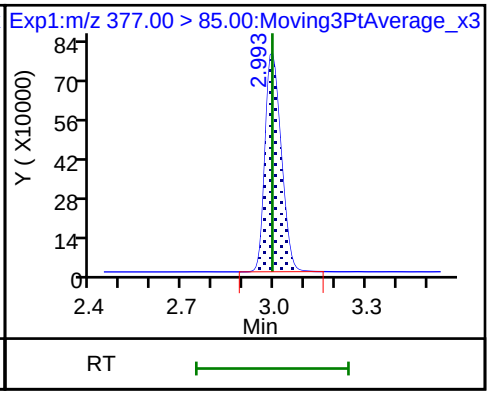
18 Perfluoroheptanoic acid



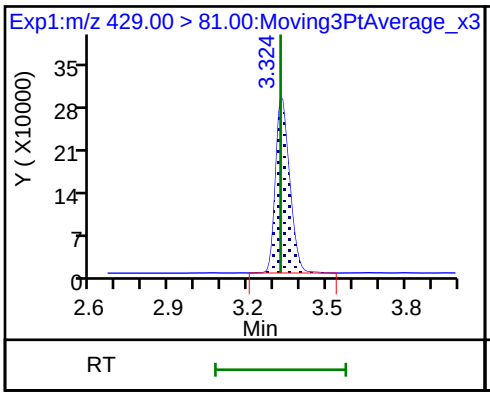
19 DONA



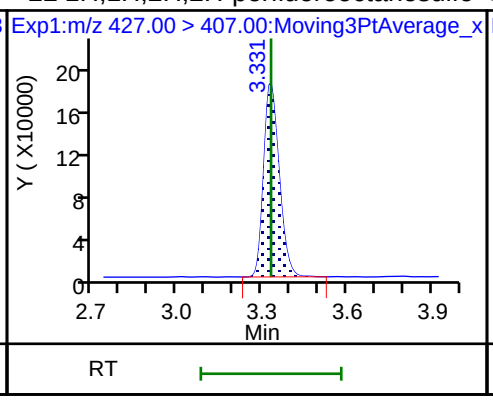
19 DONA



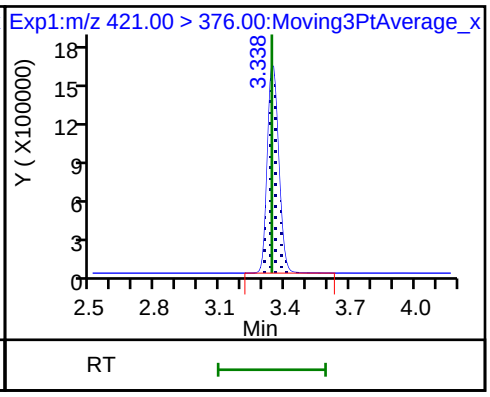
D 20 M2-6:2 FTS



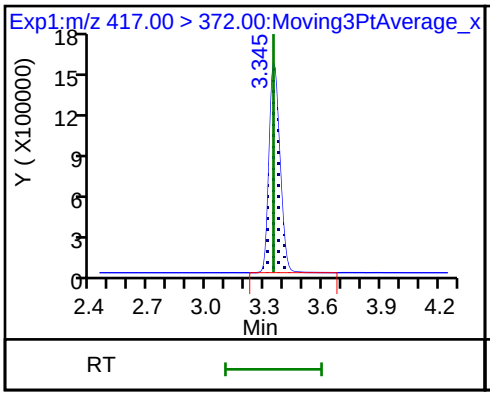
22 1H,1H,2H,2H-perfluorooctanesulfo



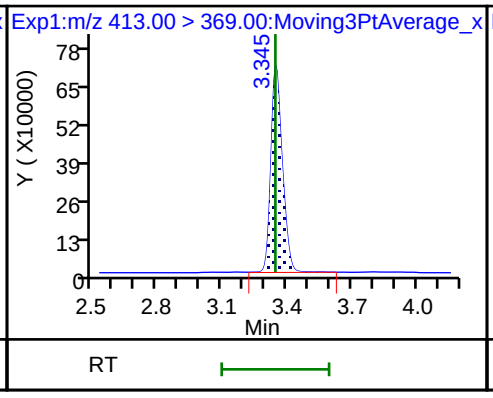
$ 21 13C8 PFOA



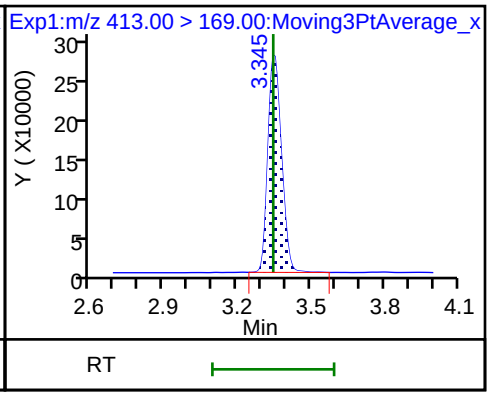
D 26 13C4 PFOA



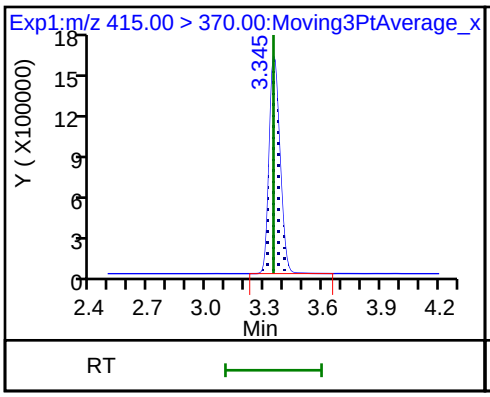
24 Perfluorooctanoic acid



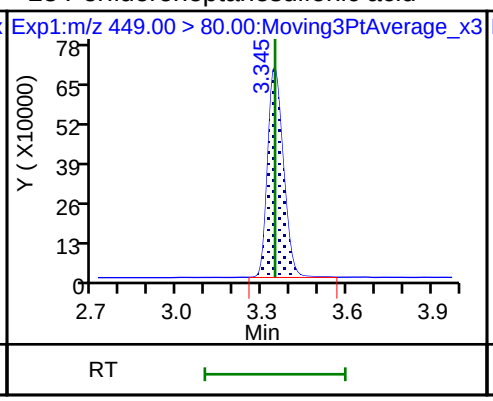
24 Perfluorooctanoic acid



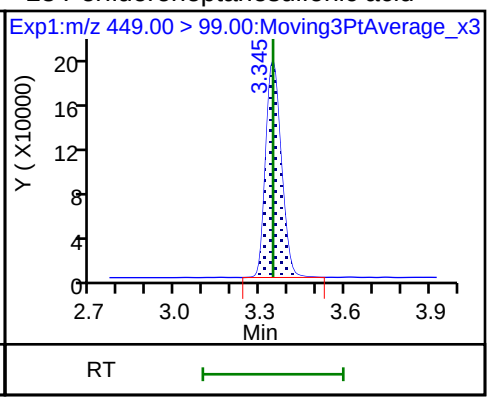
* 25 13C2 PFOA



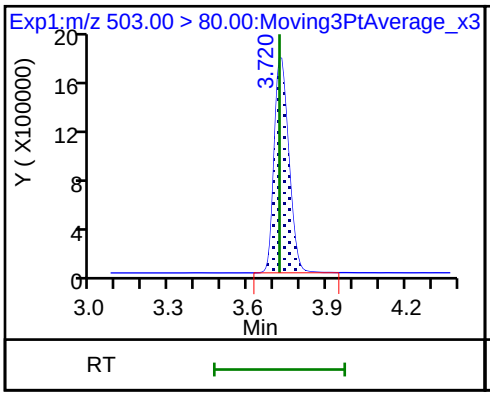
23 Perfluoroheptanesulfonic acid



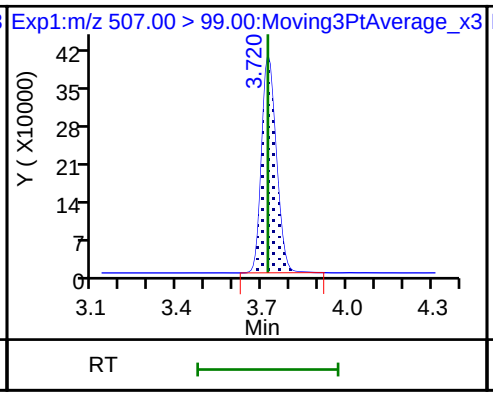
23 Perfluoroheptanesulfonic acid



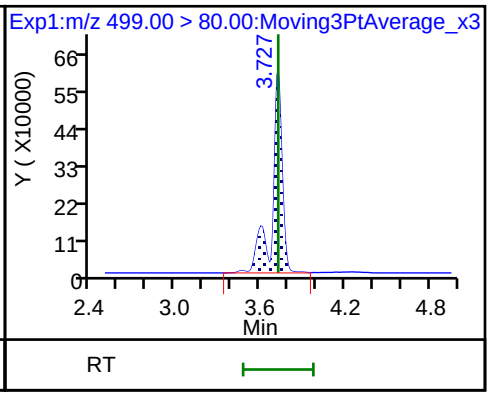
D 31 13C4 PFOS



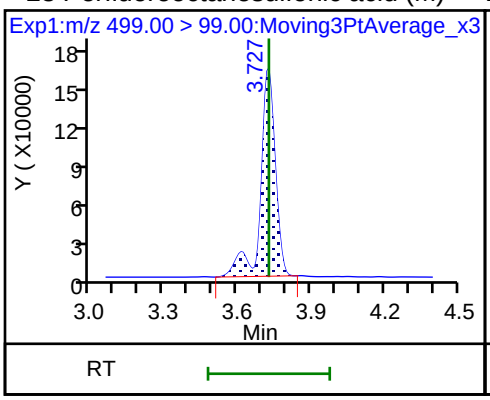
$ 27 13C8 PFOS



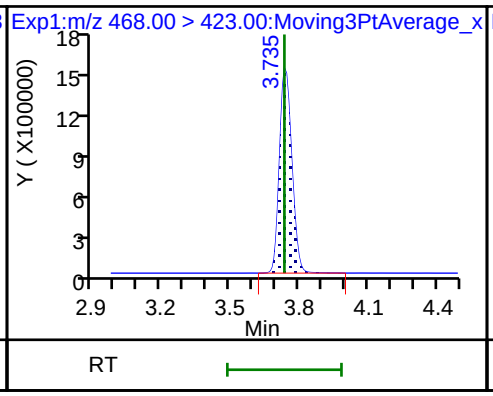
28 Perfluorooctanesulfonic acid



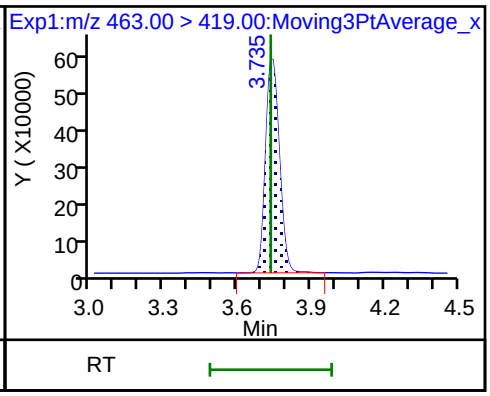
28 Perfluorooctanesulfonic acid (M)



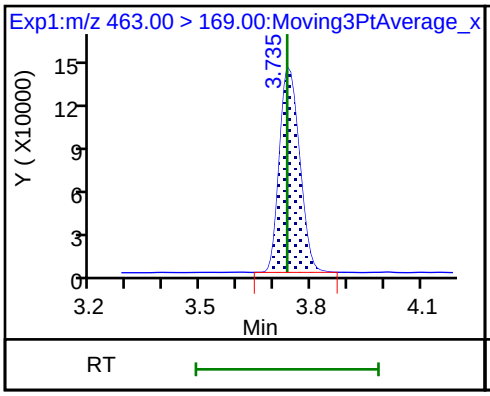
D 29 13C5 PFNA



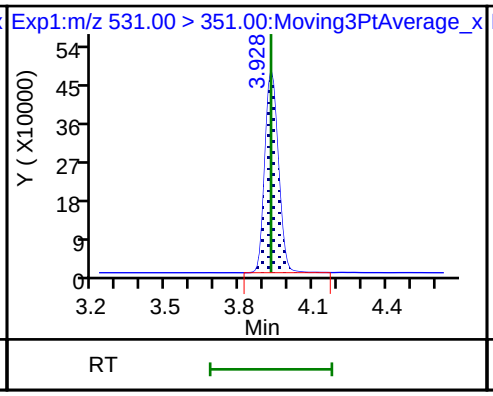
30 Perfluorononanoic acid



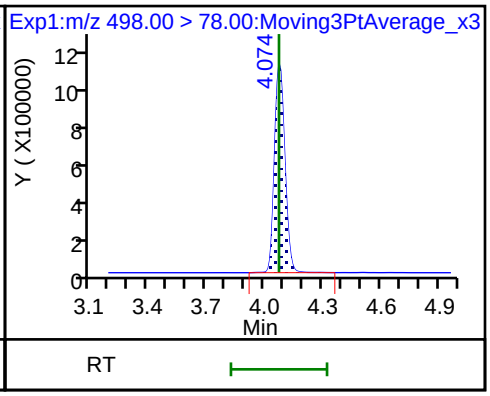
30 Perfluorononanoic acid



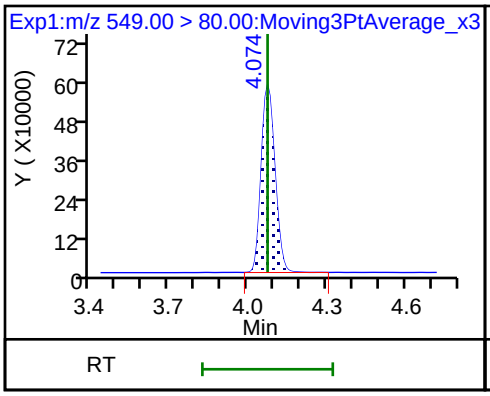
32 9-Chlorohexadecafluoro-3-oxanona



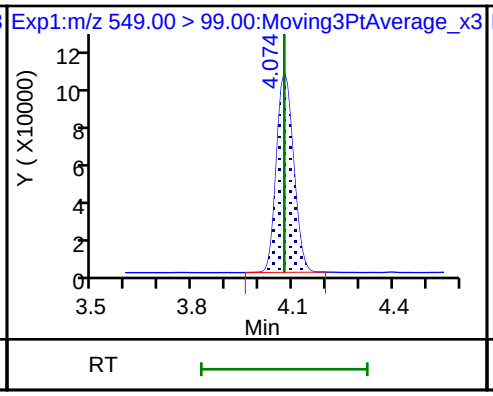
34 Perfluorooctanesulfonamide



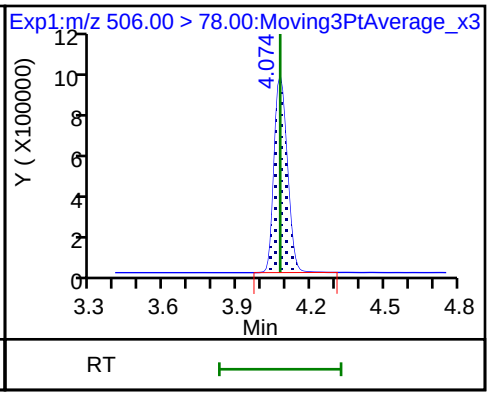
35 Perfluorononanesulfonic acid



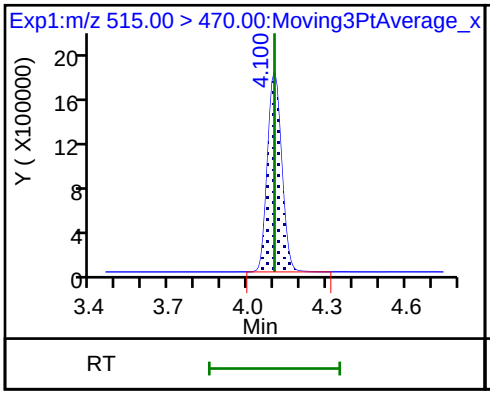
35 Perfluorononanesulfonic acid



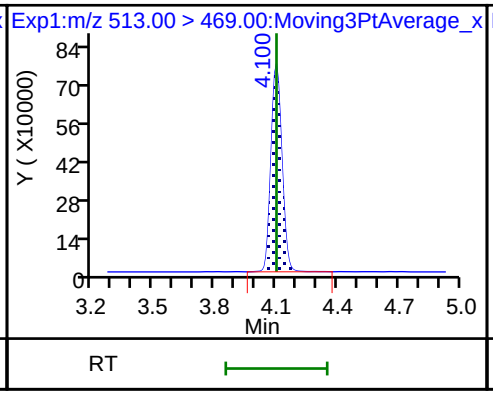
D 36 13C8 FOSA



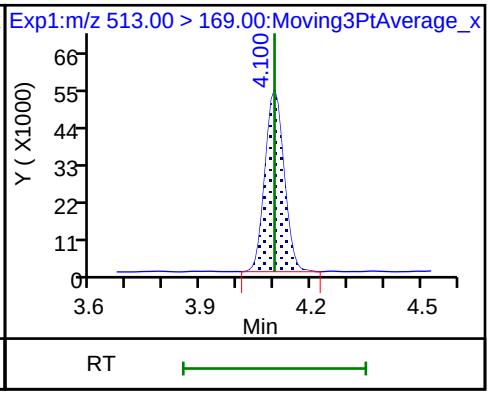
D 33 13C2 PFDA



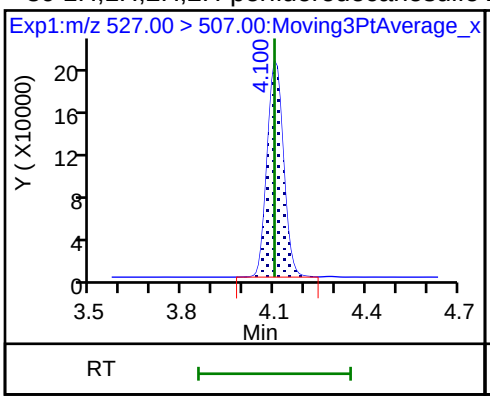
38 Perfluorodecanoic acid



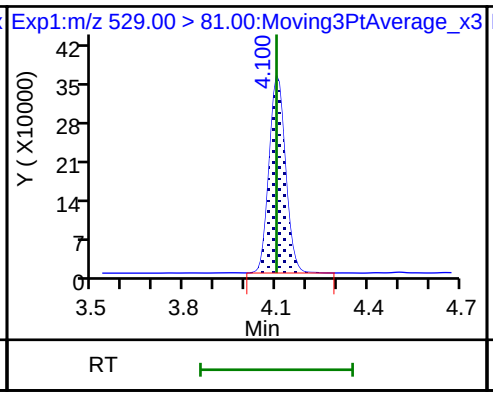
38 Perfluorodecanoic acid



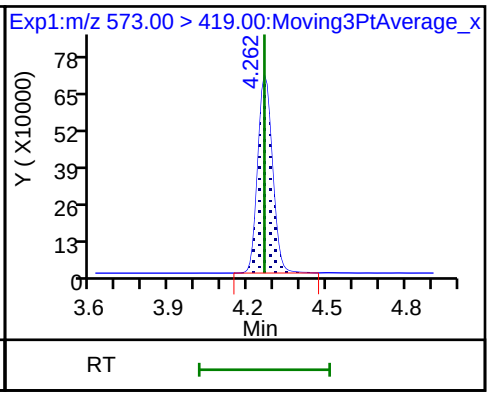
39 1H,1H,2H,2H-perfluorodecanesulfo



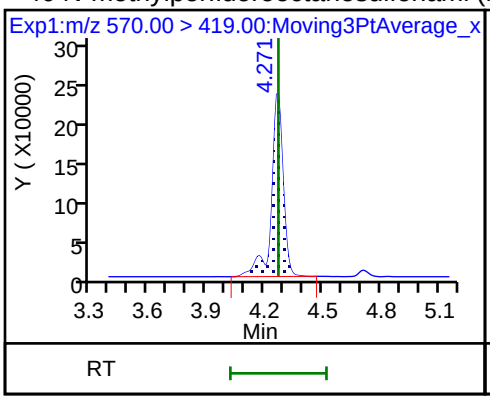
D 37 M2-8:2 FTS



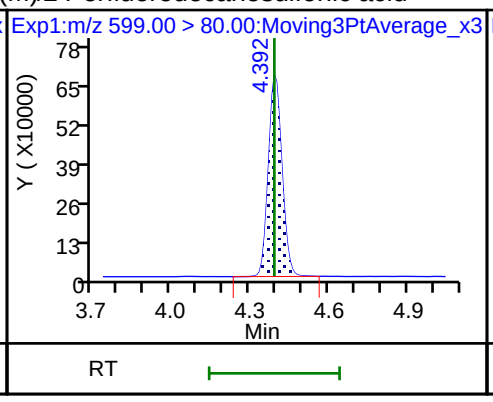
D 41 d3-NMeFOSAA



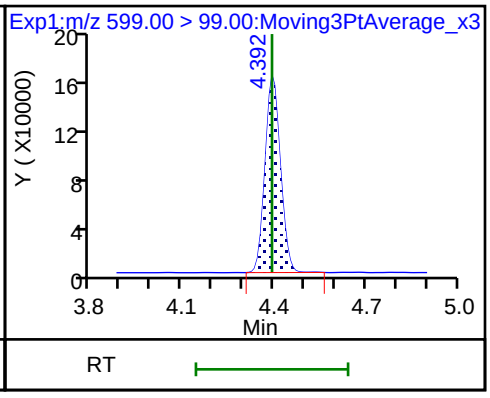
40 N-methylperfluorooctanesulfonami (M)



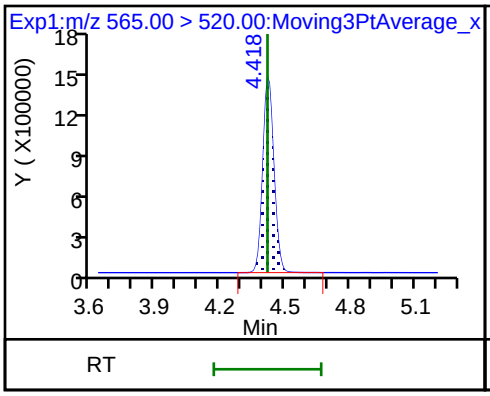
42 Perfluorodecanesulfonic acid



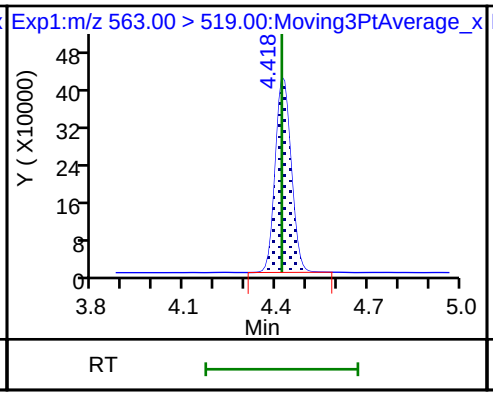
42 Perfluorodecanesulfonic acid



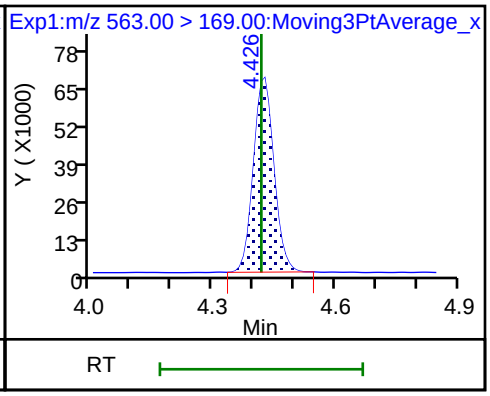
D 46 13C2 PFUnA



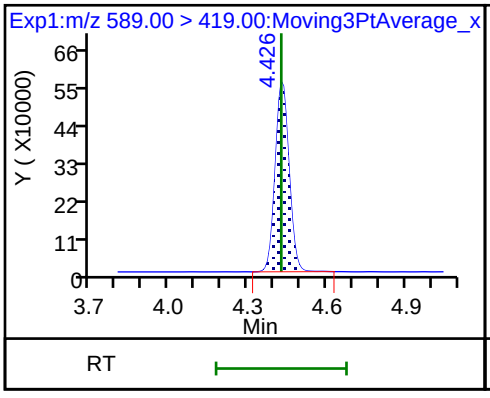
43 Perfluoroundecanoic acid



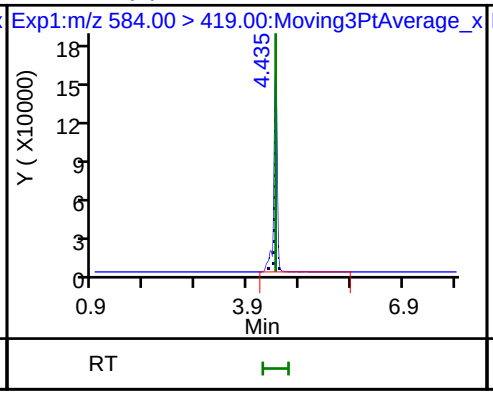
43 Perfluoroundecanoic acid



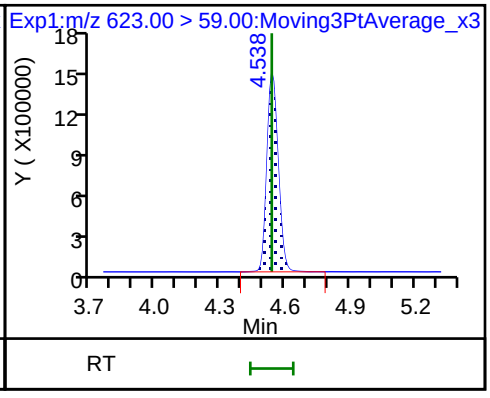
D 45 d5-NEtFOSAA



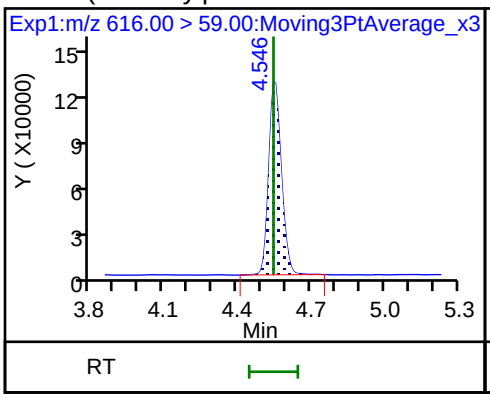
44 N-ethylperfluorooctanesulfonamid



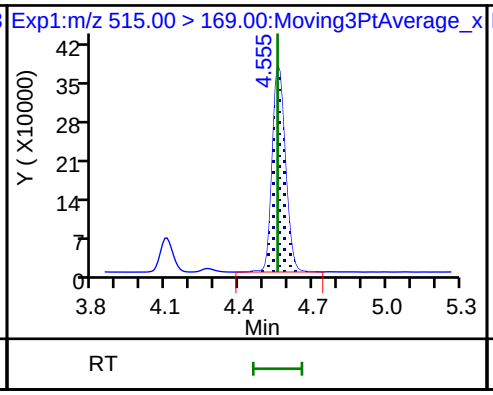
D 47 d7-N-MeFOSE-M



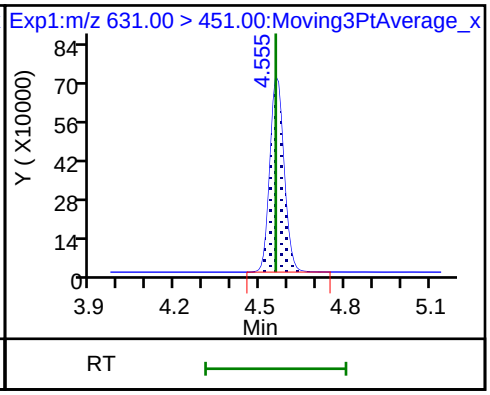
48 2-(N-methylperfluoro-1-octanesul



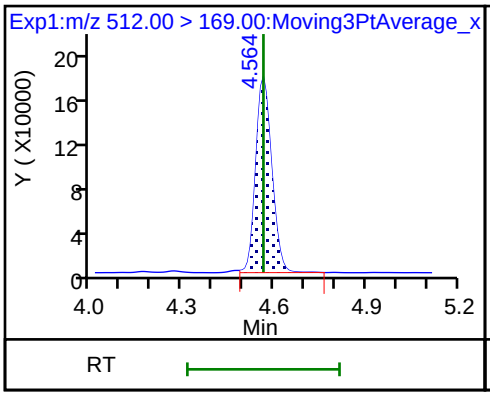
D 49 d-N-MeFOSA-M



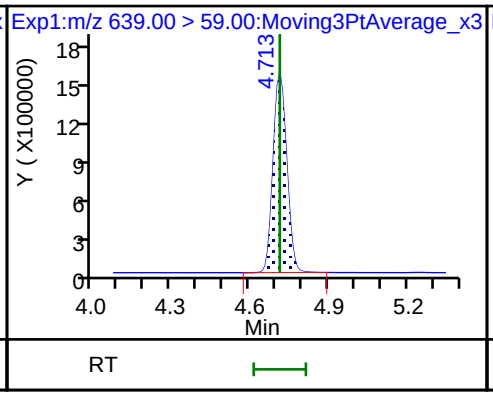
51 11-Chloroeicosafluoro-3-oxaundec



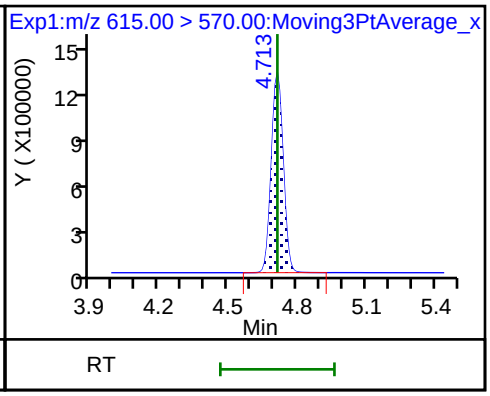
50 NMeFOSA



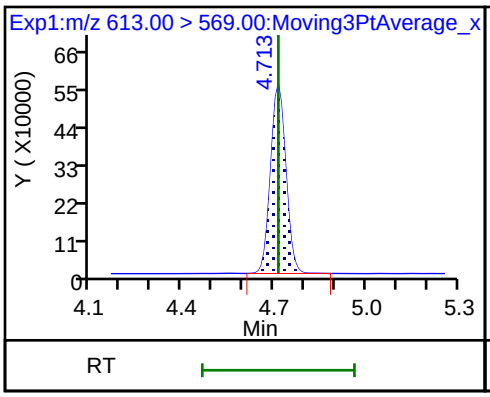
D 53 d9-N-EtFOSE-M



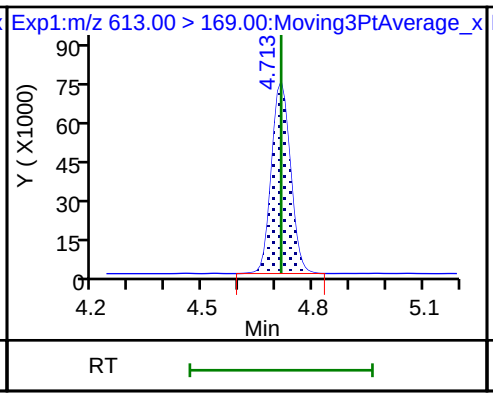
D 56 13C2 PFDoA



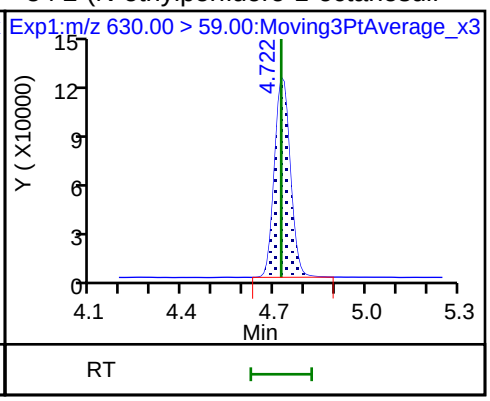
52 Perfluorododecanoic acid



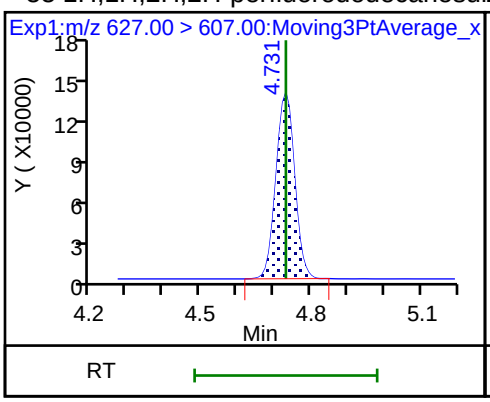
52 Perfluorododecanoic acid



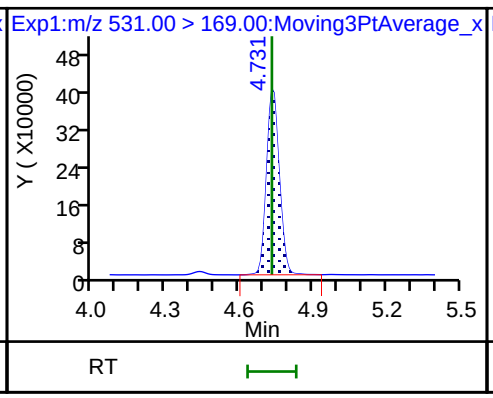
54 2-(N-ethylperfluoro-1-octanesulf



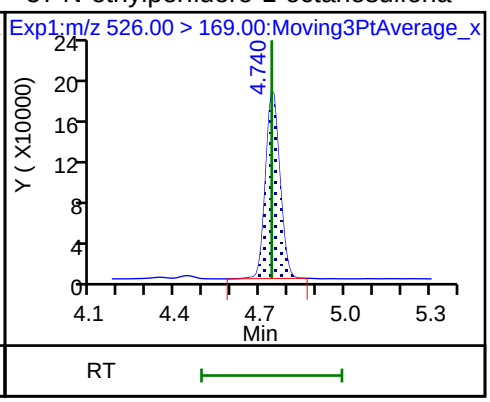
55 1H,1H,2H,2H-perfluorododecanesul



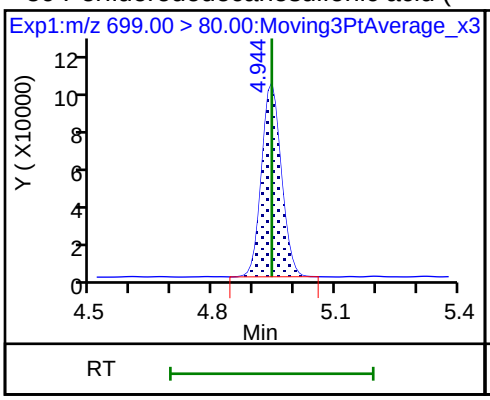
D 58 d-N-EtFOSA-M



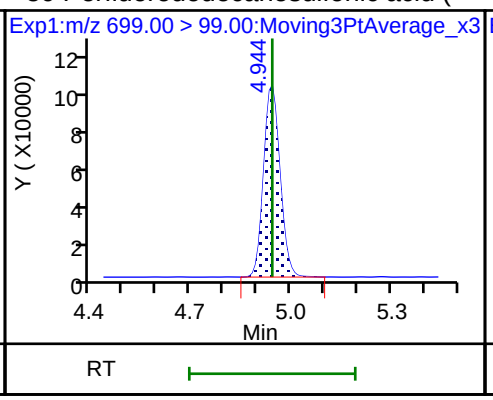
57 N-ethylperfluoro-1-octanesulfona



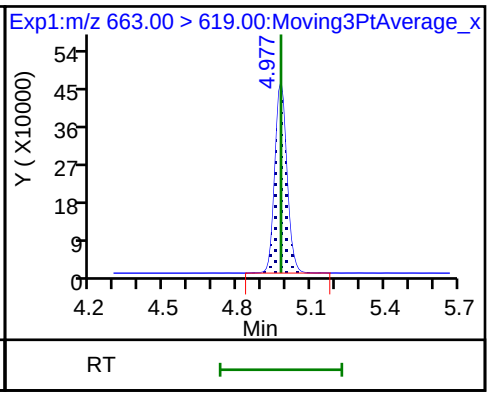
59 Perfluorododecanesulfonic acid (



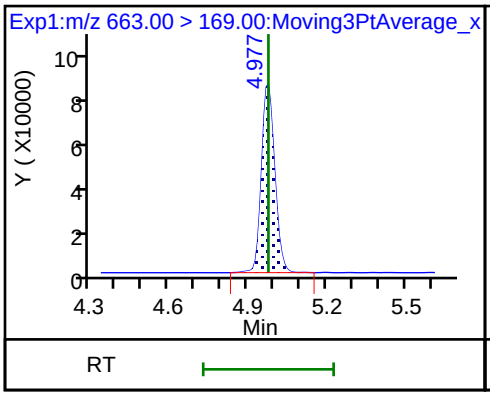
59 Perfluorododecanesulfonic acid (



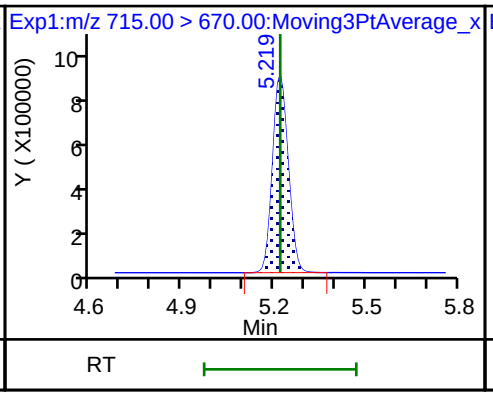
60 Perfluorotridecanoic acid



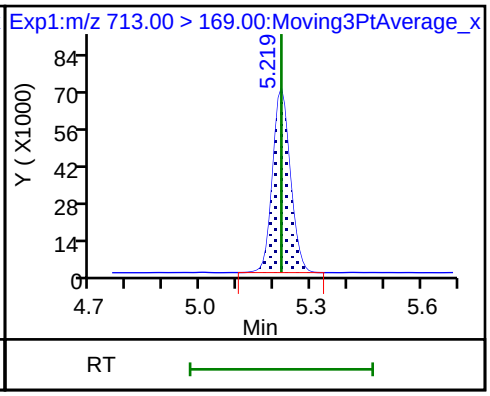
60 Perfluorotridecanoic acid



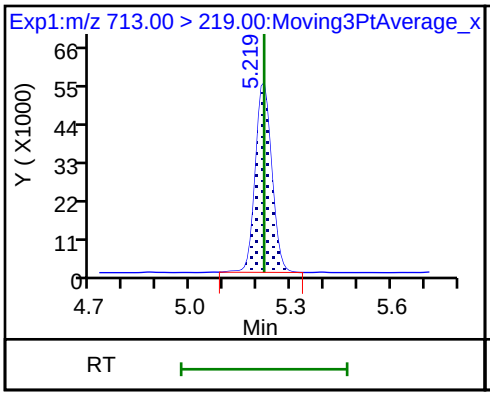
D 62 13C2 PFTeDA



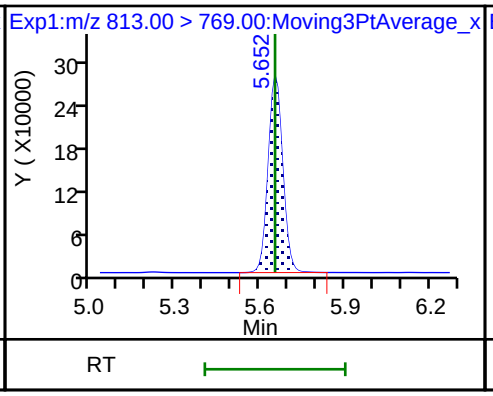
61 Perfluorotetradecanoic acid



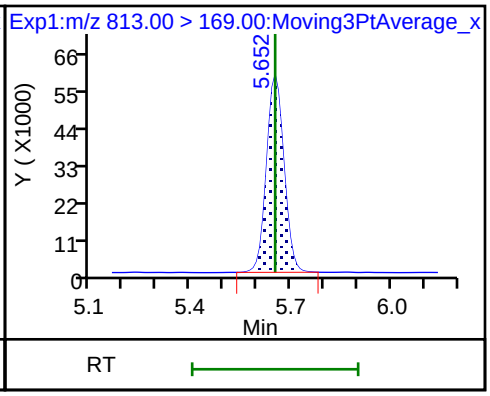
61 Perfluorotetradecanoic acid



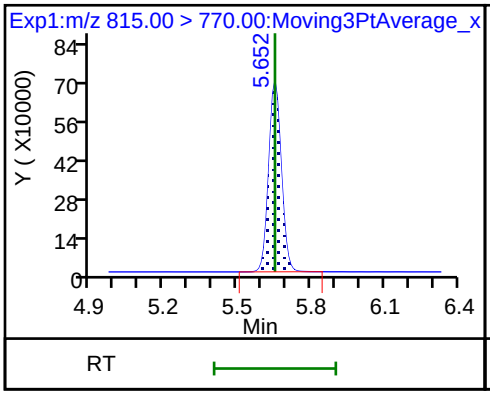
64 Perfluorohexadecanoic acid



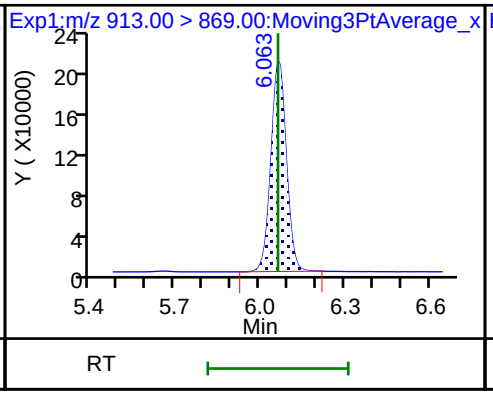
64 Perfluorohexadecanoic acid



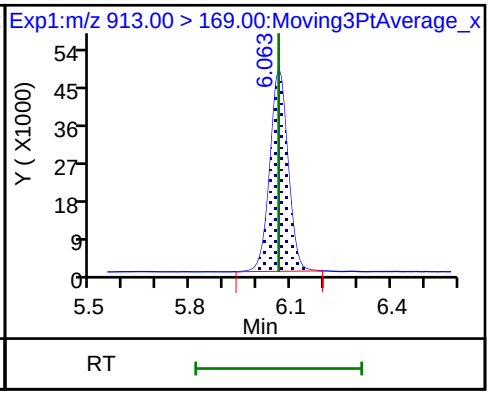
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

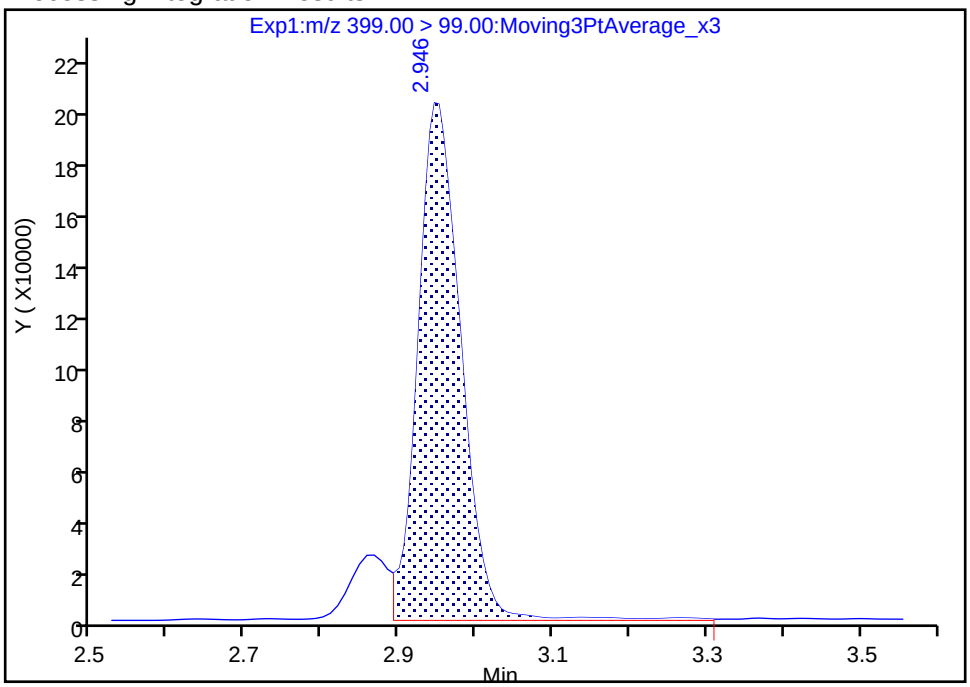
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d
Injection Date: 11-Sep-2020 13:05:37 Instrument ID: A9
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 43 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

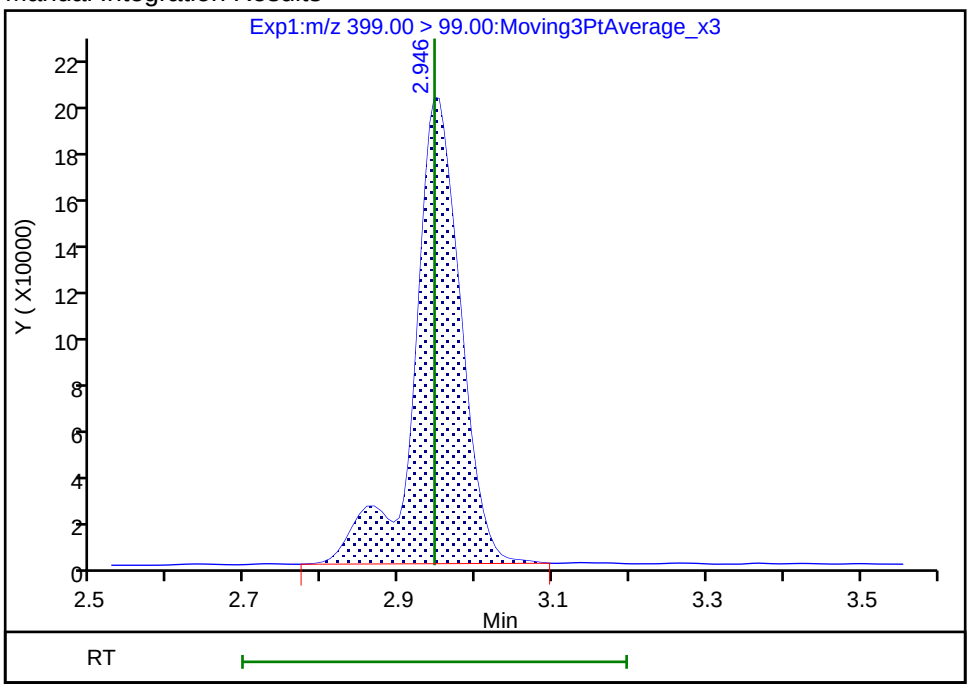
Processing Integration Results

RT: 2.95
Area: 761450
Amount: 0.918619
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 825621
Amount: 0.918619
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:23:20
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

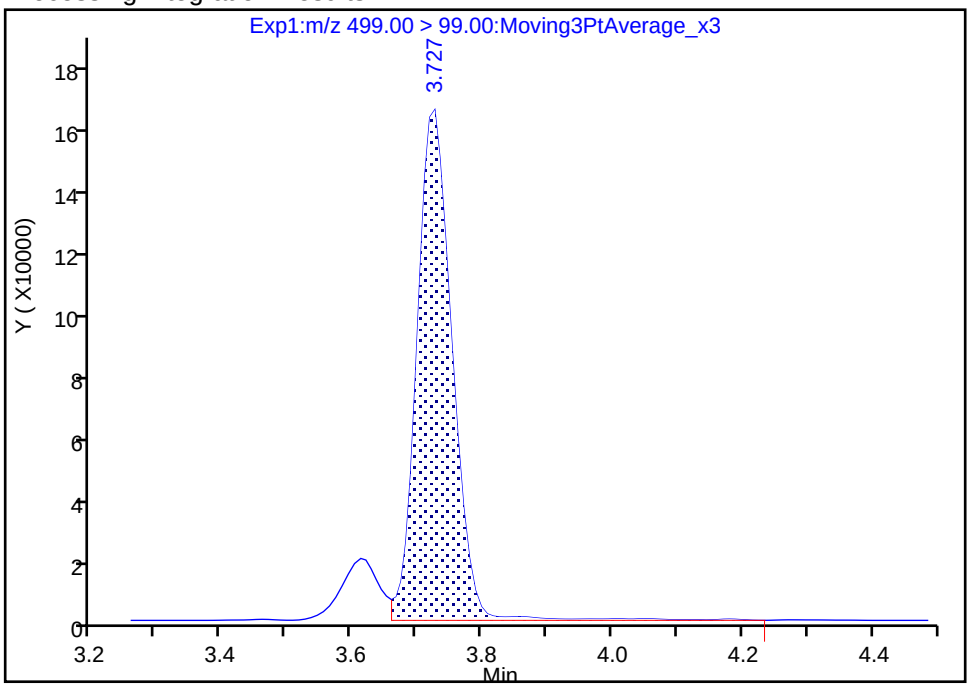
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d				
Injection Date:	11-Sep-2020 13:05:37	Instrument ID:	A9		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	43	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

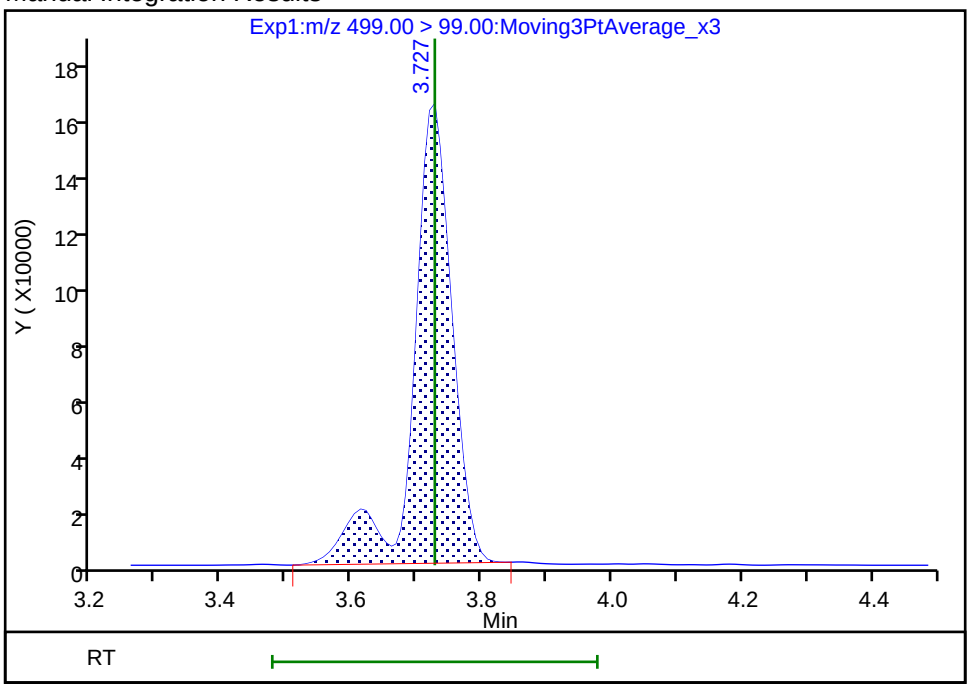
Processing Integration Results

RT: 3.73
Area: 594809
Amount: 1.006014
Amount Units: ng/ml



Manual Integration Results

RT: 3.73
Area: 651844
Amount: 1.006014
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:23:33

Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

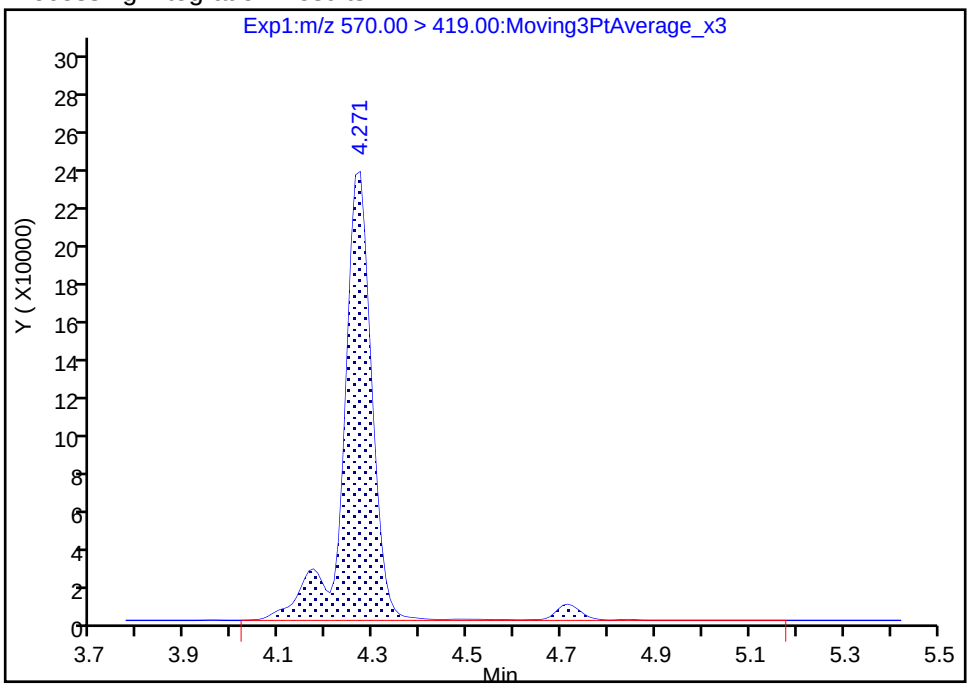
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d				
Injection Date:	11-Sep-2020 13:05:37	Instrument ID:	A9		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	43	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

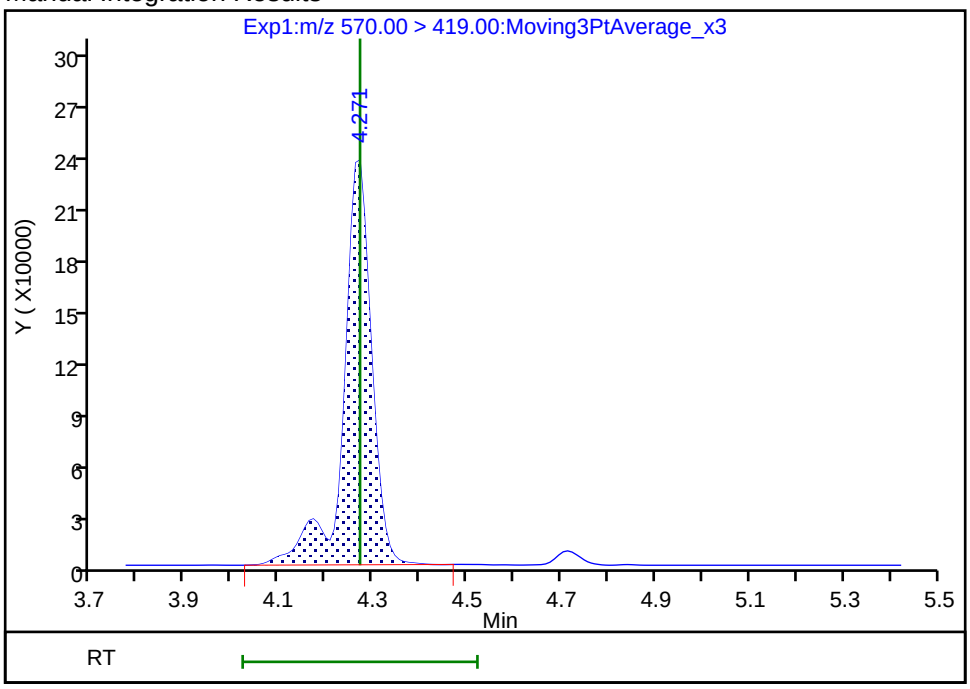
Processing Integration Results

RT: 4.27
Area: 1017565
Amount: 1.228407
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 977265
Amount: 1.179757
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:23:54
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411454/13 Calibration Date: 09/11/2020 14:57

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_036.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8734	0.9874		2.83	2.50	13.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.018	1.089		2.68	2.50	7.0	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.998	1.034		2.29	2.21	3.7	50.0
4:2 FTS	AveID	1.978	2.205		2.60	2.34	11.5	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8343	0.9058		2.71	2.50	8.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.4016	0.4536		2.65	2.35	12.9	50.0
HFPO-DA (GenX)	AveID	0.3959	0.4137		2.61	2.50	4.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.109	1.129		2.55	2.50	1.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.180	1.181		2.28	2.28	0.1	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.813	1.818		2.36	2.36	0.3	50.0
6:2 FTS	AveID	1.542	1.622		2.49	2.37	5.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.9244	0.9551		2.46	2.38	3.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.078	1.185		2.75	2.50	9.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.040	1.077		2.40	2.32	3.6	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.070		2.69	2.51	7.5	40.0
F-53B Major	AveID	0.6274	0.6892		2.56	2.33	9.8	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7591	0.8232		2.60	2.40	8.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	2.782	2.797		2.51	2.50	0.6	40.0
8:2 FTS	AveID	1.288	1.413		2.63	2.40	9.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.998	0.999		2.50	2.50	0.0	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7593	0.8124		2.68	2.50	7.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8492	0.9097		2.58	2.41	7.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6962	0.7222		2.60	2.50	3.7	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8112	0.8606		2.65	2.50	6.1	40.0
NMeFOSE	AveID	1.043	1.077		2.58	2.50	3.2	40.0
F-53B Minor	AveID	0.7398	0.9532		3.03	2.36	28.8	50.0
NMeFOSA	AveID	1.043	1.269		3.04	2.50	21.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9197	1.111		3.04	2.52	20.8	40.0
10:2 FTS	AveID	0.8214	0.9755		2.86	2.41	18.8	50.0
NEtFOSE	AveID	0.9939	1.013		2.55	2.50	1.9	40.0
NEtFOSA	AveID	0.995	1.068		2.68	2.50	7.4	40.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.1269	0.1371		2.62	2.42	8.1	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411454/13 Calibration Date: 09/11/2020 14:57

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_036.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.7267	0.8131		2.80	2.50	11.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1764	0.1739		2.47	2.50	-1.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9757		2.65	2.50	5.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7480	0.8298		2.77	2.50	10.9	50.0
13C4 PFBA	Ave	1.350	1.333		2.47	2.50	-1.2	50.0
13C5 PFPeA	Ave	1.138	1.056		2.32	2.50	-7.2	50.0
13C3 PFBS	Ave	2.249	2.324		2.40	2.33	3.4	50.0
M2-4:2 FTS	Ave	0.2233	0.1896		1.98	2.34	-15.1	50.0
13C2 PFHxA	Ave	1.058	1.026		2.43	2.50	-3.0	50.0
13C3 HFPO-DA	Ave	0.7264	0.7101		2.44	2.50	-2.2	50.0
13C4 PFHpA	Ave	1.030	1.036		2.52	2.50	0.6	50.0
18O2 PFHxS	Ave	1.076	1.113		2.45	2.37	3.5	50.0
M2-6:2 FTS	Ave	0.1925	0.1702		2.10	2.38	-11.6	50.0
13C4 PFOA	Ave	0.9654	0.9105		2.36	2.50	-5.7	50.0
13C4 PFOS	Ave	1.123	1.182		2.52	2.39	5.3	50.0
13C5 PFNA	Ave	0.8376	0.8366		2.50	2.50	-0.1	50.0
13C8 FOSA	Ave	0.5280	0.5367		2.54	2.50	1.7	50.0
13C2 PFDA	Ave	1.063	1.086		2.55	2.50	2.1	50.0
M2-8:2 FTS	Ave	0.2357	0.2064		2.10	2.40	-12.5	50.0
d3-NMeFOSAA	Ave	0.5286	0.4766		2.25	2.50	-9.8	50.0
13C2 PFUnA	Ave	0.8198	0.8657		2.64	2.50	5.6	50.0
d5-NEtFOSAA	Ave	0.3541	0.3241		2.29	2.50	-8.5	50.0
d7-N-MeFOSE-M	Ave	0.1700	0.1775		13.1	12.5	4.4	50.0
d-N-MeFOSA-M	Ave	0.2378	0.2195		2.31	2.50	-7.7	50.0
13C2 PFDoA	Ave	0.8051	0.7766		2.41	2.50	-3.5	50.0
d9-N-EtFOSE-M	Ave	0.1785	0.1905		13.3	12.5	6.7	50.0
d-N-EtFOSA-M	Ave	0.2469	0.2469		2.50	2.50	0.0	50.0
13C2 PFTeDA	Ave	0.5615	0.5600		2.49	2.50	-0.3	50.0
13C2 PFHxDA	Ave	0.4152	0.4216		2.54	2.50	1.5	50.0
13C8 PFOA	Ave	0.8088	0.9395		2.84	2.45	16.2	50.0
13C8 PFOS	Ave	0.2542	0.2577		2.42	2.39	1.4	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_036.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 11-Sep-2020 14:57:52 ALS Bottle#: 44 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 16:57:16 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 16:57:16
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.892	1.893	-0.001	0.566	8007312	2.47		98.8	2681	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.892	1.893	-0.001	1.000	7906230	2.83		113	209	
D 4 13C5 PFPeA										
267.90 > 223.00	2.198	2.198	0.0	0.657	6345264	2.32		92.8	2288	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.198	2.198	0.0	1.000	6911430	2.68		107	221	
D 6 13C3 PFBS										
301.90 > 80.00	2.223	2.223	0.0	0.665	12985044	2.40		103	4026	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.223	2.233	-0.010	1.000	12766443	2.29	Target=3.10	104	912	
298.90 > 99.00	2.223	2.233	-0.010	1.000	4196205		3.04(1.55-4.65)		615	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.514	2.514	0.0	1.000	2345026	2.60		111	7918	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.514	2.514	0.0	0.752	1063734	1.98		84.9	495	
D 10 13C2 PFHxA										
315.00 > 270.00	2.546	2.557	-0.011	0.761	6165710	2.42		97.0	2332	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.557	2.557	0.0	1.004	5584941	2.71	Target=9.68	109	340	
313.00 > 119.00	2.546	2.557	-0.011	1.000	542748		10.29(4.84-14.52)		296	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.568	2.568	0.0	1.155	5940074	2.65	Target=2.01	113	1428	
349.00 > 99.00	2.568	2.568	0.0	1.155	2788312		2.13(1.00-3.01)		931	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.673	2.673	0.0	0.799	4265471	2.44		97.8	2412	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.673	2.673	0.0	1.000	1764629	2.61		105	3331	
D 15 13C4 PFHpA										
367.00 > 322.00	2.940	2.940	0.0	0.879	6223873	2.51		101	3185	
D 17 18O2 PFHxS										
403.00 > 84.00	2.946	2.946	0.0	0.881	6325998	2.45		103	3666	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.946	2.946	0.0	1.000	7185076	2.28	Target=3.29	100	913	
399.00 > 99.00	2.946	2.946	0.0	1.000	2046439		3.51(1.65-4.94)		611	M
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.940	2.946	-0.006	1.000	7027679	2.55	Target=3.74	102	579	
363.00 > 169.00	2.940	2.946	-0.006	1.000	1903450		3.69(1.87-5.61)		983	
19 DONA										
377.00 > 251.00	2.987	2.993	-0.006	0.803	12156853	2.36	Target=1.80	100	5328	
377.00 > 85.00	2.987	2.993	-0.006	0.803	6983301		1.74(0.90-2.70)		2999	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.324	3.324	0.0	0.994	971345	2.10		88.4	748	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.324	3.331	-0.007	1.000	1572513	2.49		105	1181	
$ 21 13C8 PFOA										
421.00 > 376.00	3.338	3.338	0.0	0.998	5524905	2.84		116	8957	
D 26 13C4 PFOA										
417.00 > 372.00	3.345	3.345	0.0	1.000	5469523	2.36		94.3	4013	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.345	3.345	0.0	1.000	6486113	2.75	Target=2.37	110	909	
413.00 > 169.00	3.345	3.345	0.0	1.000	2580667		2.51(1.19-3.56)		1294	
* 25 13C2 PFOA										
415.00 > 370.00	3.345	3.345	0.0		6006964	2.50			4063	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.338	3.345	-0.007	0.897	6455360	2.46	Target=3.65	103	1348	
449.00 > 99.00	3.338	3.345	-0.007	0.897	1742211		3.71(1.83-5.48)		1340	
D 31 13C4 PFOS										
503.00 > 80.00	3.720	3.720	0.0	1.112	6786991	2.52		105	2067	
$ 27 13C8 PFOS										
507.00 > 99.00	3.712	3.720	-0.008	1.110	1479949	2.42		101	2725	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.720	3.727	-0.007	1.000	7093112	2.40	Target=4.12	104	642	
499.00 > 99.00	3.720	3.727	-0.007	1.000	1615927		4.39(2.06-6.17)		1209	M
D 29 13C5 PFNA										
468.00 > 423.00	3.735	3.735	0.0	1.117	5025148	2.50		99.9	4065	
30 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.735	0.0	1.000	5386976	2.69	Target=4.21	107	1827	
463.00 > 169.00	3.735	3.735	0.0	1.000	1282182		4.20(2.11-6.32)		1316	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.056	4559909	2.56		110	3964	
D 36 13C8 FOSA										
506.00 > 78.00	4.074	4.074	0.0	1.218	3224161	2.54		102	2502	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.074	0.0	1.000	9018741	2.51		101	3256	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.065	4.074	-0.009	1.093	5610149	2.60	Target=5.56	108	2204	
549.00 > 99.00	4.065	4.074	-0.009	1.093	931888		6.02(2.78-8.34)		2197	
D 33 13C2 PFDA										
515.00 > 470.00	4.092	4.100	-0.008	1.223	6521388	2.55		102	6707	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.100	-0.008	1.000	6513076	2.50	Target=14.33	100	1967	
513.00 > 169.00	4.092	4.100	-0.008	1.000	457884		14.22(7.16-21.49)		292	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.100	-0.008	1.000	1677456	2.63		110	2941	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.092	4.100	-0.008	1.223	1187564	2.10		87.5	772	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.262	4.262	0.0	1.274	2862909	2.25		90.2	2211	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.262	4.271	-0.009	1.000	2325964	2.68		107	275	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.392	4.392	0.0	1.181	6226007	2.58	Target=4.29	107	1786	
599.00 > 99.00	4.392	4.392	0.0	1.181	1375993		4.52(2.15-6.44)		2113	
D 46 13C2 PFUnA										
565.00 > 520.00	4.418	4.418	0.0	1.321	5200439	2.64		106	6600	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.418	4.418	0.0	1.000	3759730	2.60	Target=6.74	104	2495	
563.00 > 169.00	4.418	4.418	0.0	1.000	550592		6.83(3.37-10.11)		1103	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.418	4.426	-0.008	1.321	1946967	2.29		91.5	2051	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.427	4.435	-0.008	1.002	1675549	2.65		106	1129	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.538	4.538	0.0	1.357	5330903	13.1		104	3848	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.547	4.546	0.0	1.002	1148500	2.58		103	1245	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.555	4.555	0.0	1.362	1318450	2.31		92.3	200	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.555	4.555	0.0	1.225	6374680	3.03		129	8400	
50 NMeFOSA										
512.00 > 169.00	4.564	4.564	0.0	1.002	1673371	3.04		122	1825	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.713	4.713	0.0	1.409	5722259	13.3		107	3518	
D 56 13C2 PFDoA										
615.00 > 570.00	4.704	4.713	-0.009	1.406	4665257	2.41		96.5	5654	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.704	4.713	-0.009	1.000	5213884	3.04	Target=6.67	121	3663	
613.00 > 169.00	4.704	4.713	-0.009	1.000	704057		7.41(3.34-10.01)		1636	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.723	4.722	0.001	1.002	1159141	2.55		102	1444	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.723	4.731	-0.008	1.154	1165721	2.86		119	4620	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.732	4.731	0.001		1483096	2.50		100	885	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.741	4.740	0.001	1.002	1584465	2.68		107	807	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.935	4.944	-0.009	1.327	942282	2.62	Target=1.02	108	1542	
699.00 > 99.00	4.935	4.944	-0.009	1.327	882883		1.07(0.51-1.53)		2625	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.969	4.977	-0.008	1.056	3793229	2.80	Target=4.80	112	3942	
663.00 > 169.00	4.969	4.977	-0.008	1.056	828452		4.58(2.40-7.20)		3710	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.211	5.219	-0.008	1.558	3363771	2.49		99.7	5959	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.211	5.219	-0.008	1.000	585675	2.47	Target=1.37	98.6	2161	
713.00 > 219.00	5.211	5.219	-0.008	1.000	450158		1.30(0.69-2.06)		2068	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.643	5.652	-0.009	1.000	2471103	2.64	Target=4.63	106	3260	
813.00 > 169.00	5.643	5.652	-0.009	1.000	515274		4.80(2.32-6.95)		2310	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.643	5.652	-0.009	1.687	2532603	2.54		102	5238	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.047	6.063	-0.016	1.072	2101444	2.77	Target=4.01	111	2180	
913.00 > 169.00	6.047	6.063	-0.016	1.072	495594		4.24(2.01-6.02)		1505	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL5_00031 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 16:57:19 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_036.d

Injection Date: 11-Sep-2020 14:57:52 Instrument ID: A9

Lims ID: CCV L5

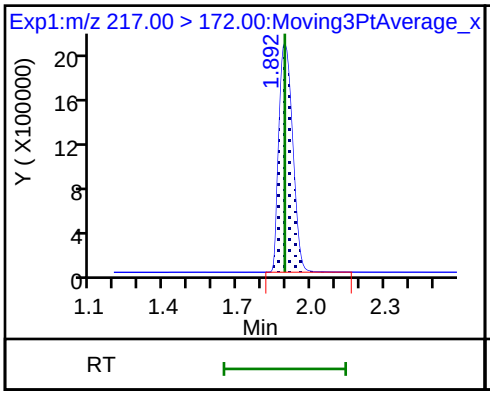
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 44 Worklist Smp#: 13

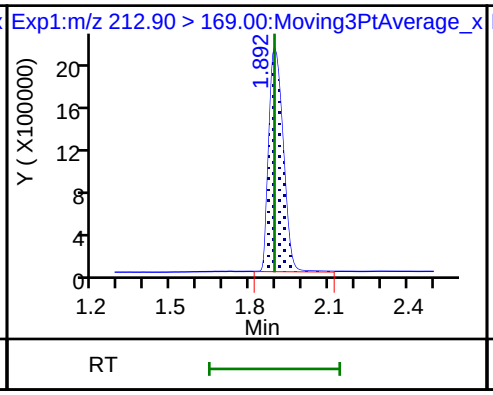
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

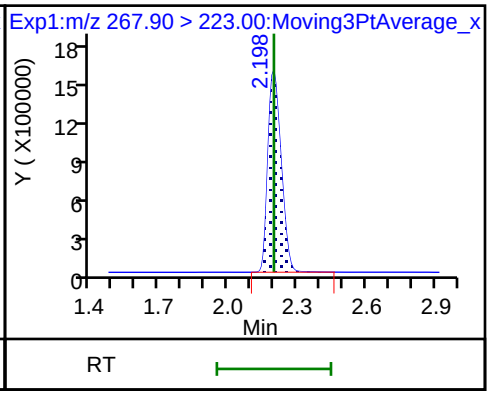
D 1 13C4 PFBA



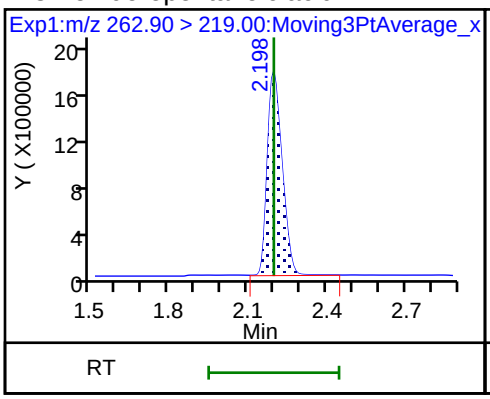
2 Perfluorobutanoic acid



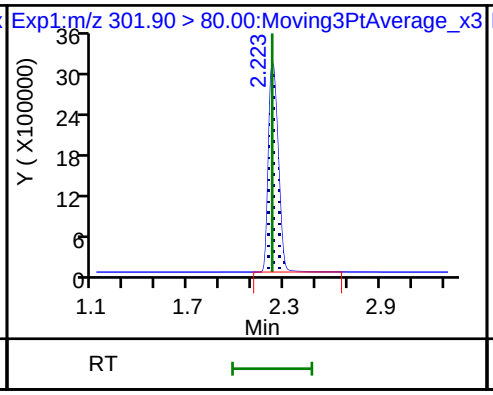
D 4 13C5 PFPeA



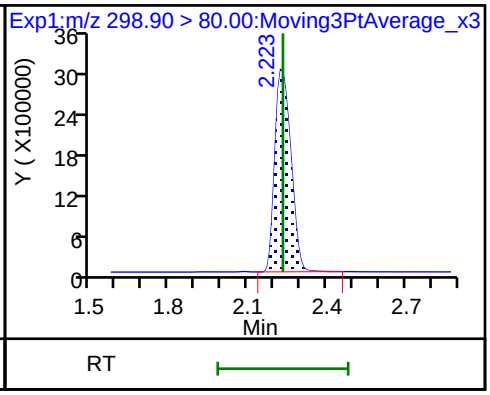
3 Perfluoropentanoic acid



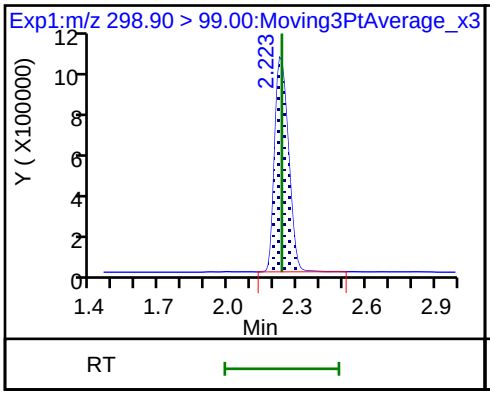
D 6 13C3 PFBS



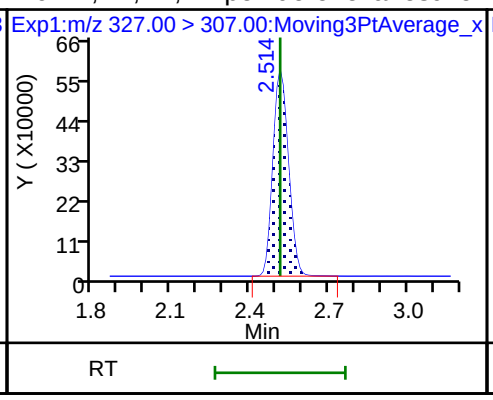
5 Perfluorobutanesulfonic acid



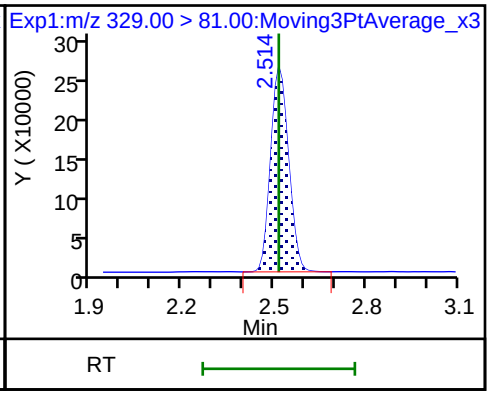
5 Perfluorobutanesulfonic acid



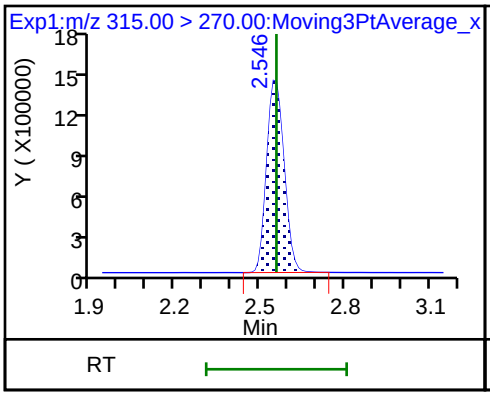
9 1H,1H,2H,2H-perfluorohexanesulfo



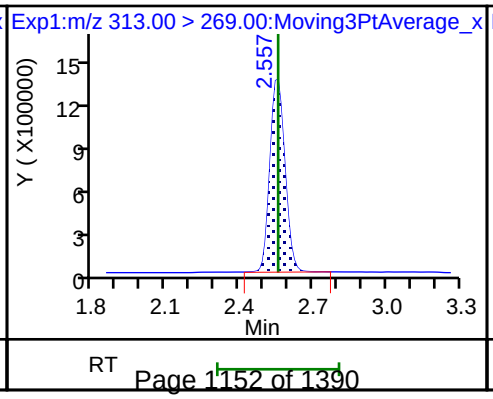
D 8 M2-4:2 FTS



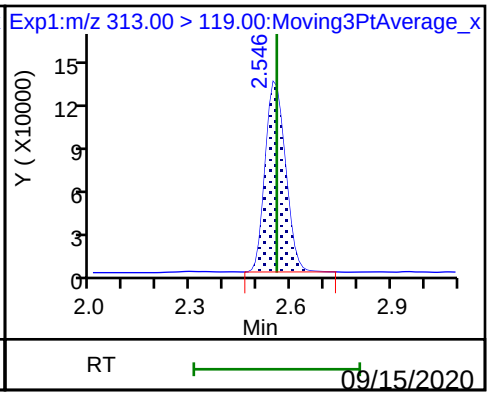
D 10 13C2 PFHxA



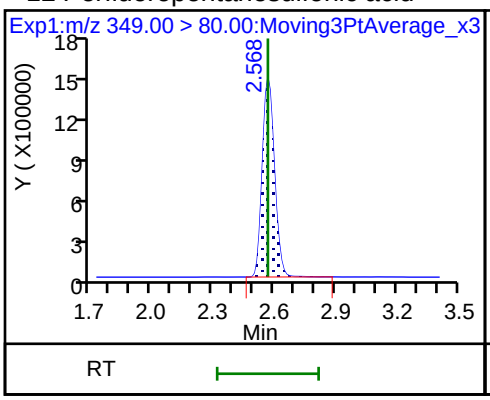
11 Perfluorohexanoic acid



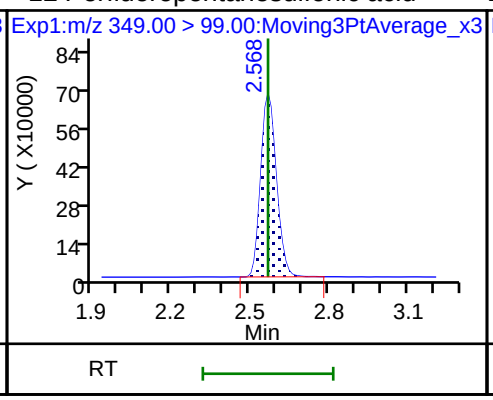
11 Perfluorohexanoic acid



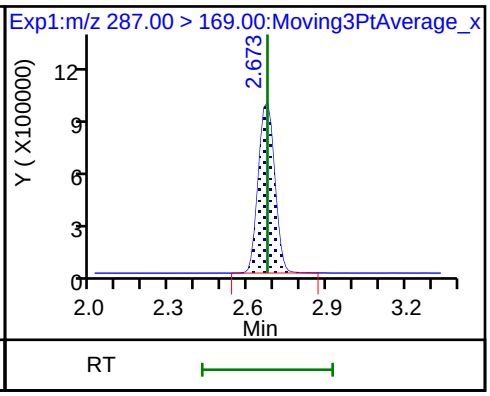
12 Perfluoropentanesulfonic acid



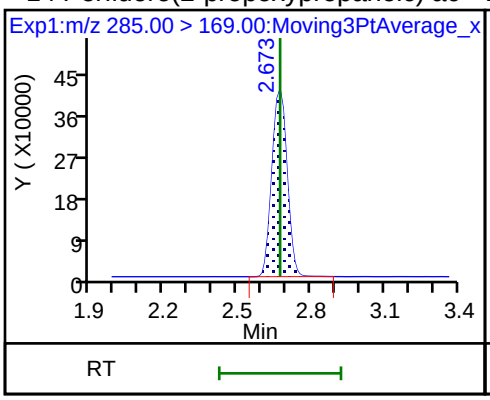
12 Perfluoropentanesulfonic acid



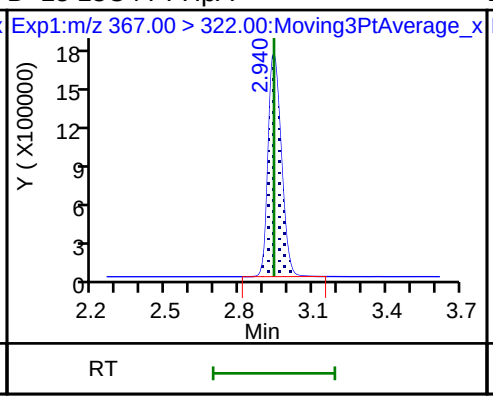
D 13 13C3 HFPO-DA



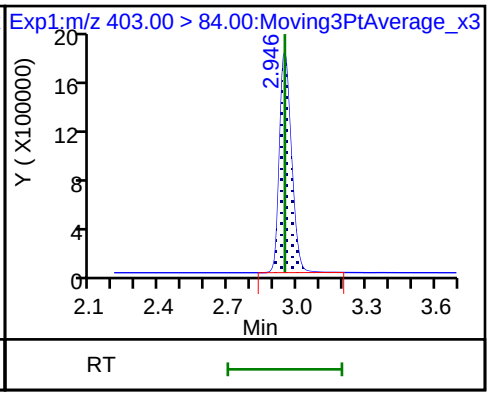
14 Perfluoro(2-propoxypropanoic) ac



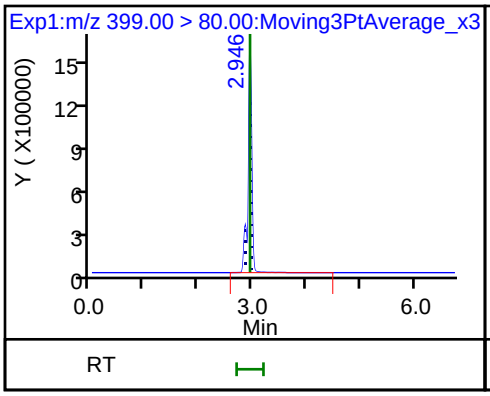
D 15 13C4 PFHpA



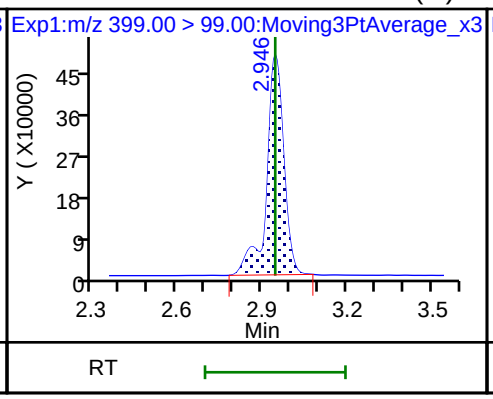
D 17 18O2 PFHxS



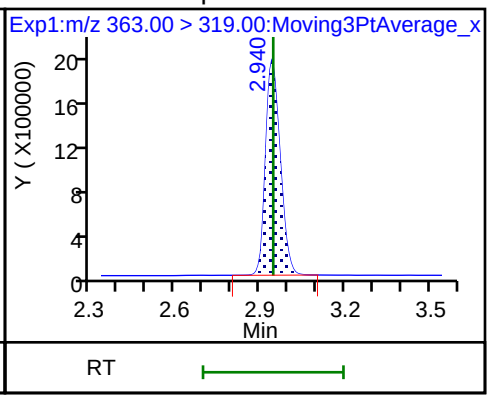
16 Perfluorohexanesulfonic acid



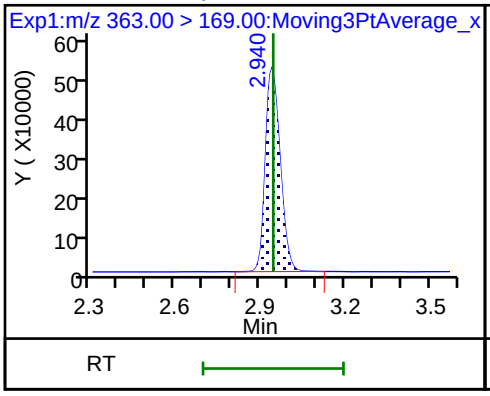
16 Perfluorohexanesulfonic acid (M)



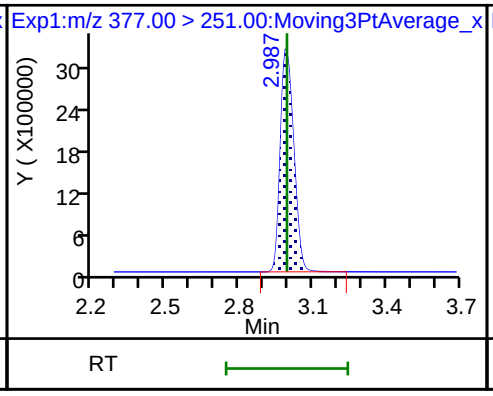
18 Perfluoroheptanoic acid



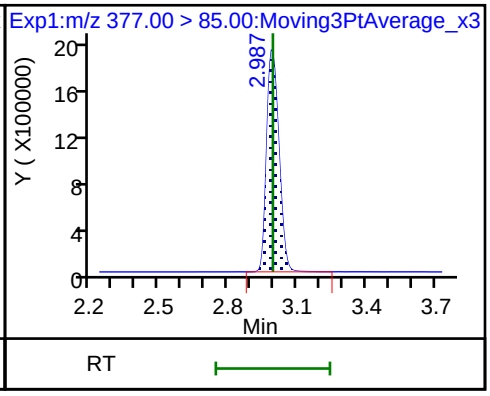
18 Perfluoroheptanoic acid



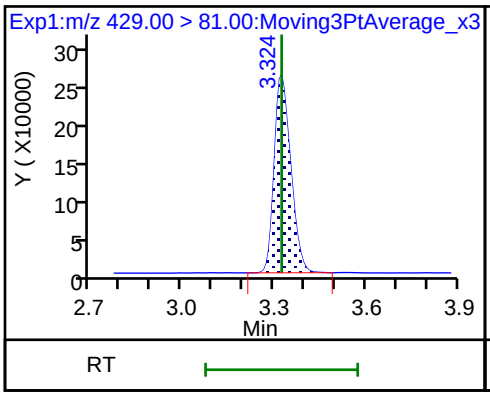
19 DONA



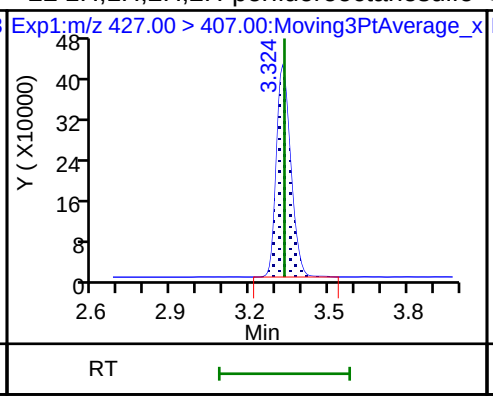
19 DONA



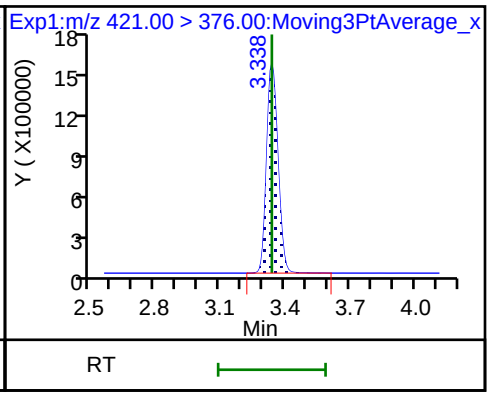
D 20 M2-6:2 FTS



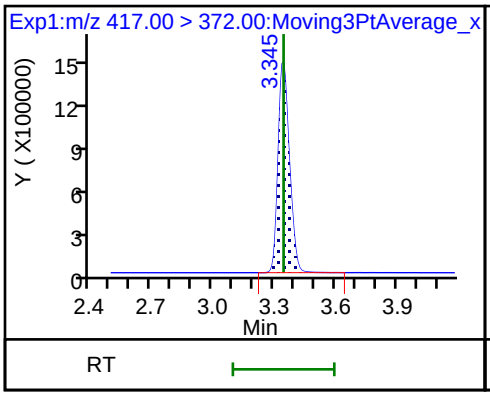
22 1H,1H,2H,2H-perfluorooctanesulfo



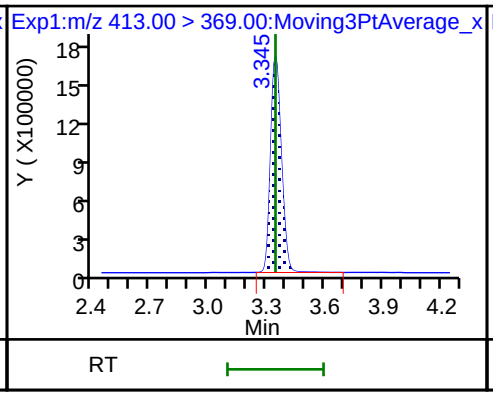
$ 21 13C8 PFOA



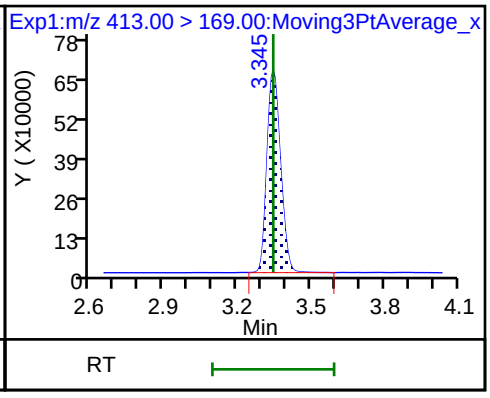
D 26 13C4 PFOA



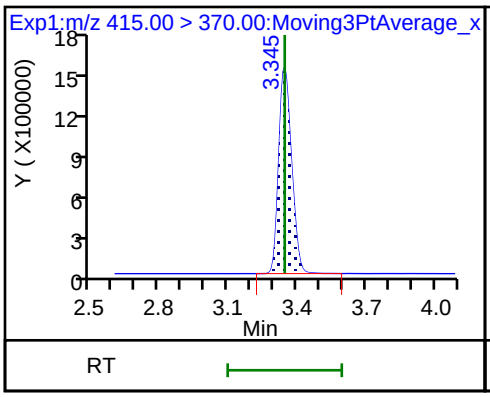
24 Perfluorooctanoic acid



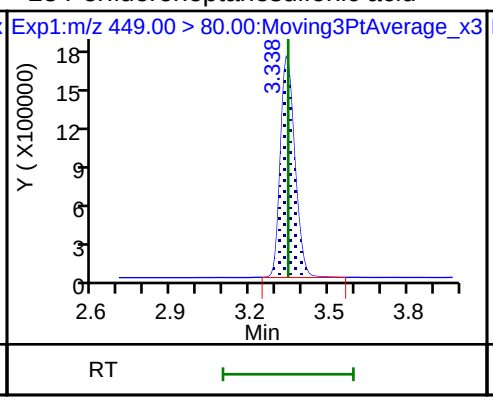
24 Perfluorooctanoic acid



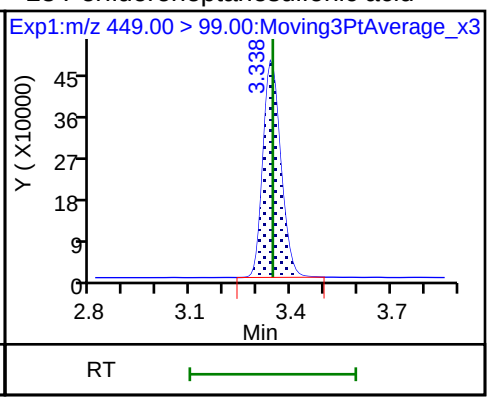
* 25 13C2 PFOA



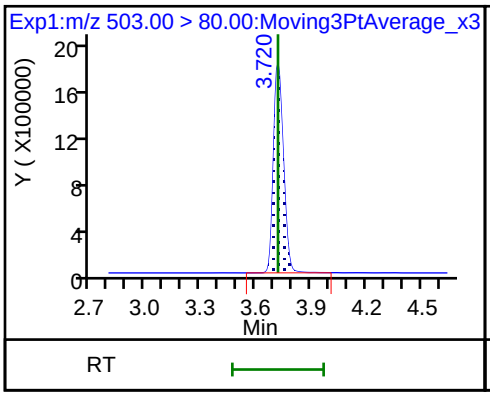
23 Perfluoroheptanesulfonic acid



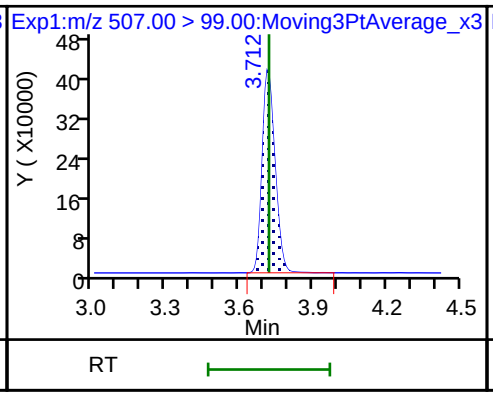
23 Perfluoroheptanesulfonic acid



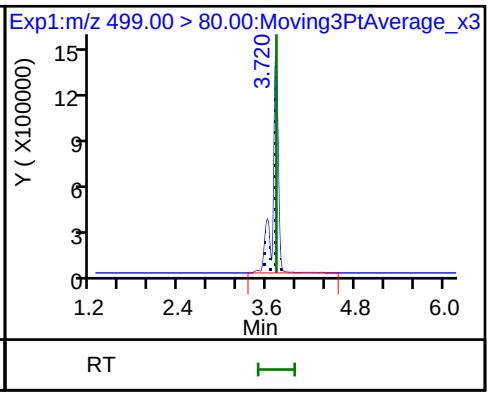
D 31 13C4 PFOS



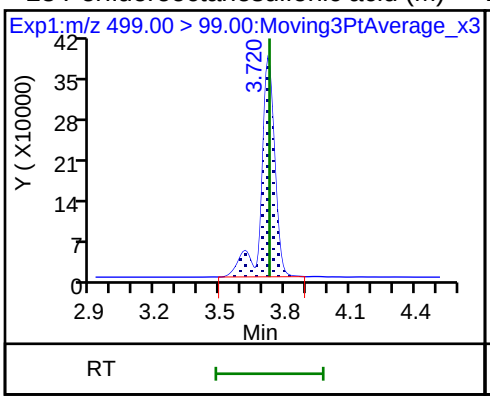
$ 27 13C8 PFOS



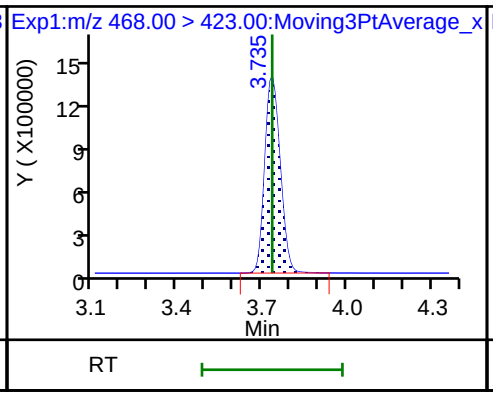
28 Perfluorooctanesulfonic acid



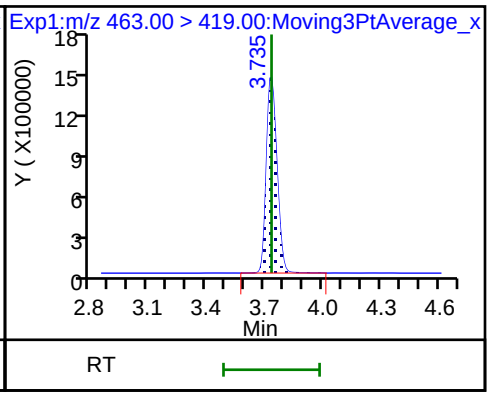
28 Perfluorooctanesulfonic acid (M)



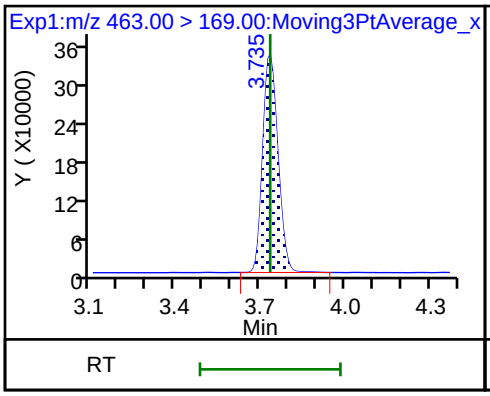
D 29 13C5 PFNA



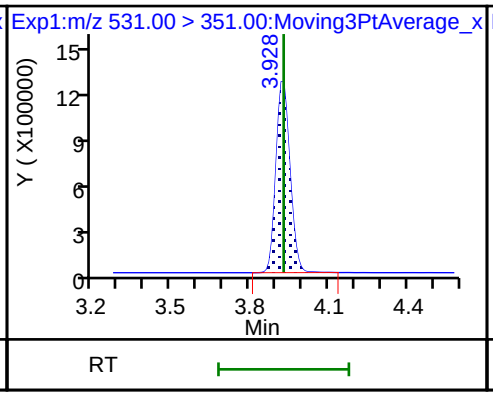
30 Perfluorononanoic acid



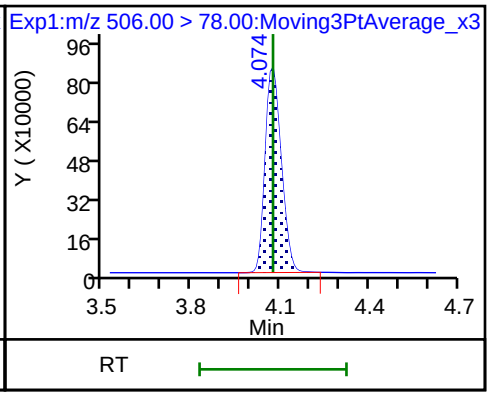
30 Perfluorononanoic acid



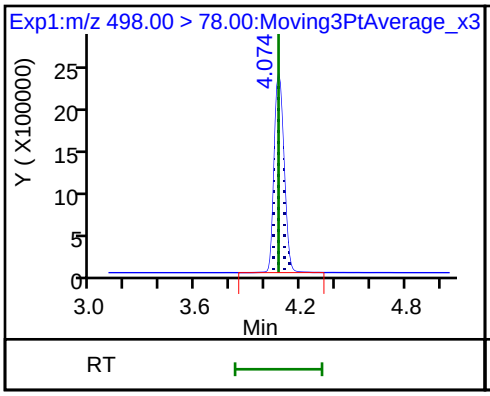
32 9-Chlorohexadecafluoro-3-oxanona



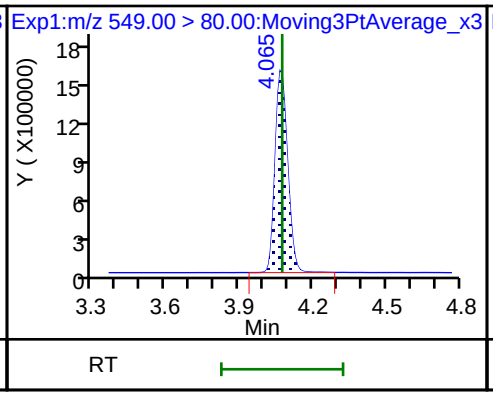
D 36 13C8 FOSA



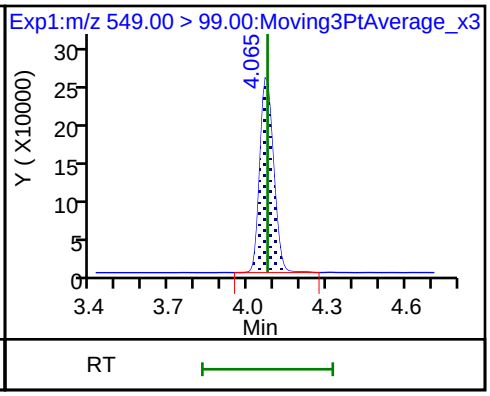
34 Perfluorooctanesulfonamide



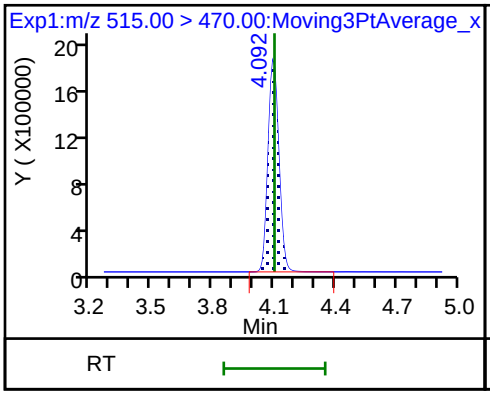
35 Perfluorononanesulfonic acid



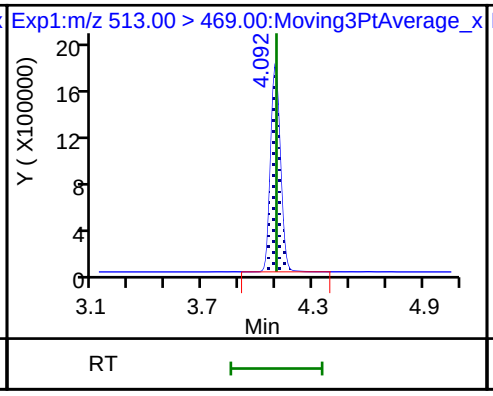
35 Perfluorononanesulfonic acid



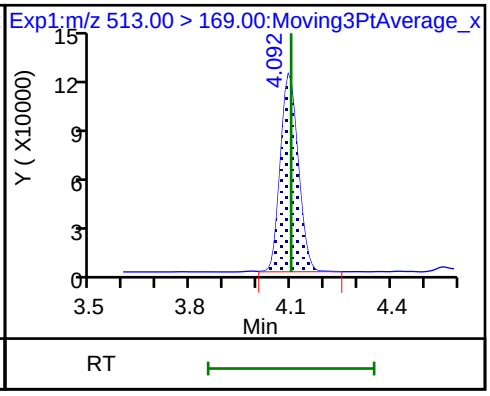
D 33 13C2 PFDA



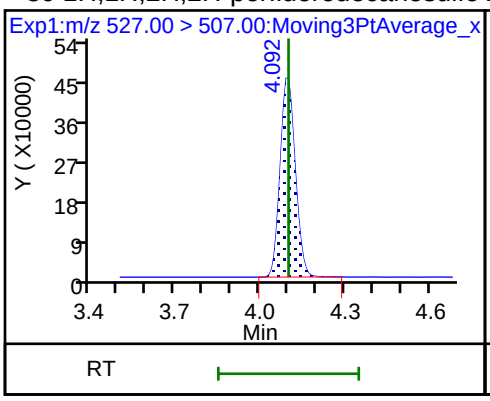
38 Perfluorodecanoic acid



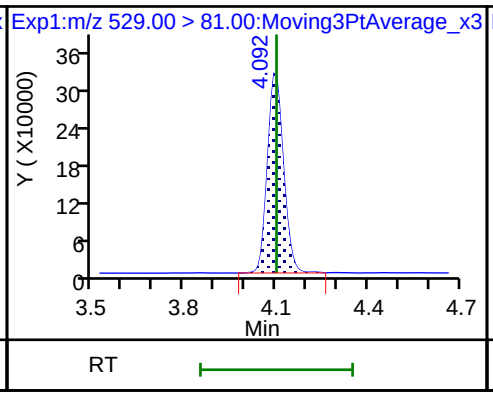
38 Perfluorodecanoic acid



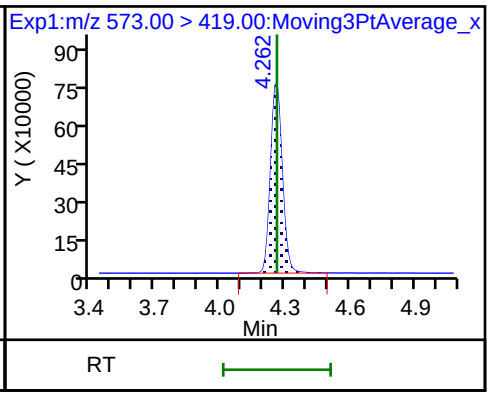
39 1H,1H,2H,2H-perfluorodecanesulfo



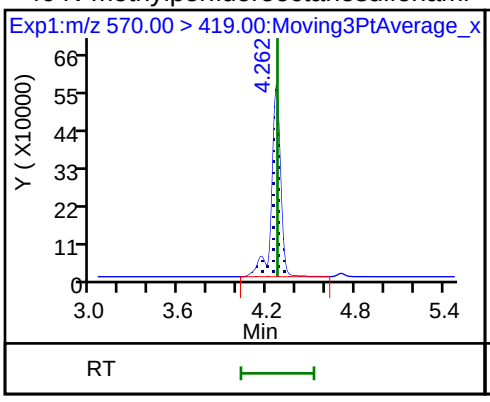
D 37 M2-8:2 FTS



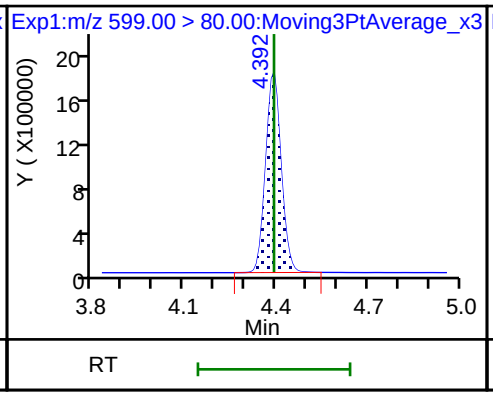
D 41 d3-NMeFOSAA



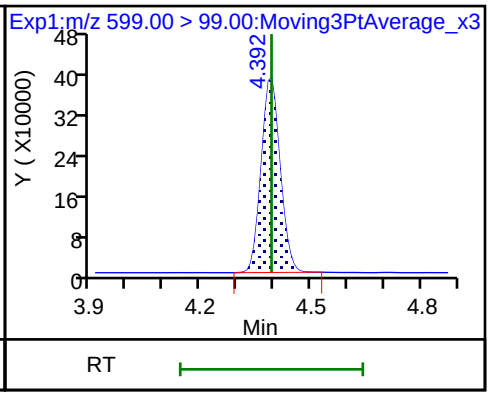
40 N-methylperfluorooctanesulfonami



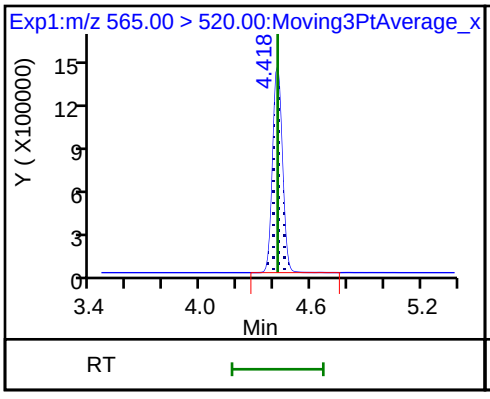
42 Perfluorodecanesulfonic acid



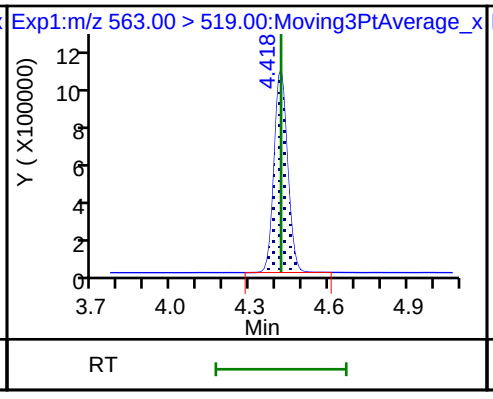
42 Perfluorodecanesulfonic acid



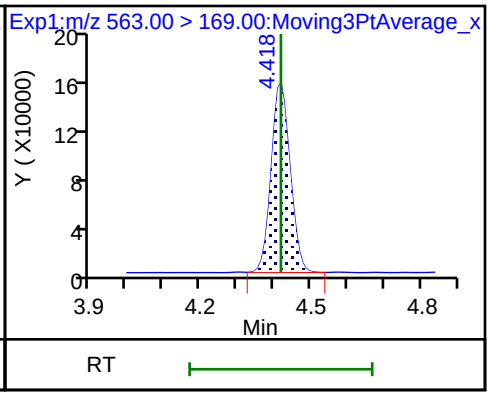
D 46 13C2 PFUnA



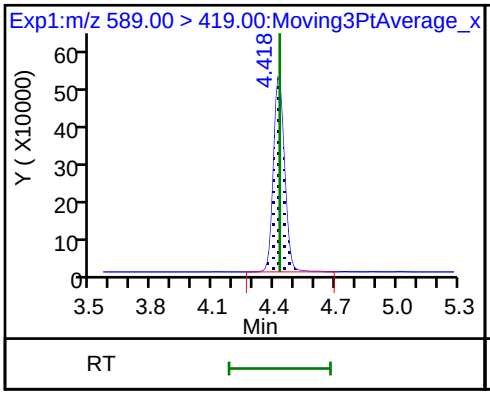
43 Perfluoroundecanoic acid



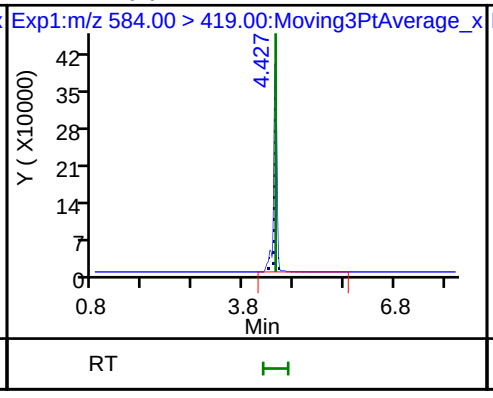
43 Perfluoroundecanoic acid



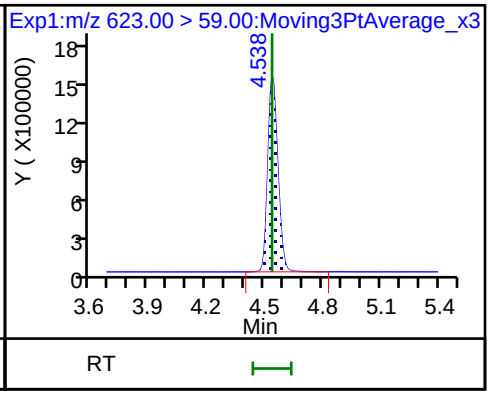
D 45 d5-NEtFOSAA



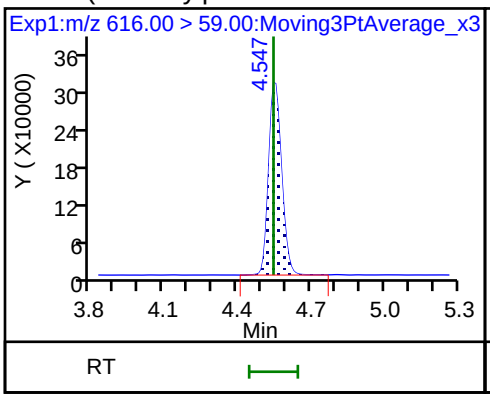
44 N-ethylperfluorooctanesulfonamid



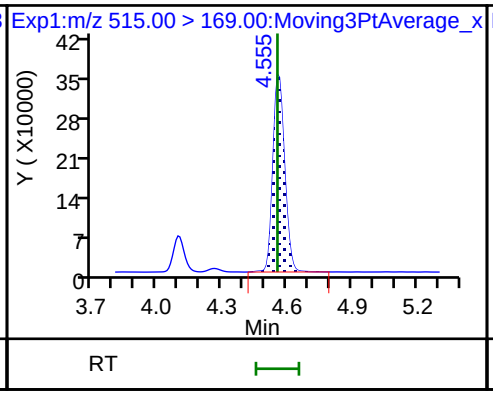
D 47 d7-N-MeFOSE-M



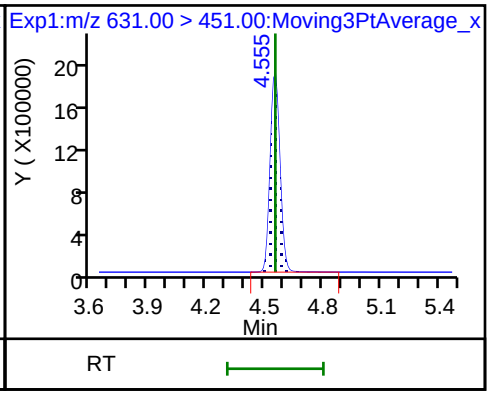
48 2-(N-methylperfluoro-1-octanesul



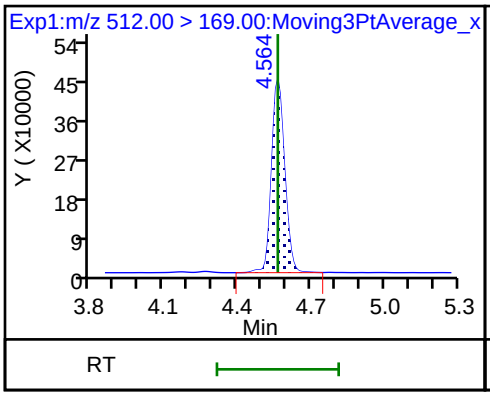
D 49 d-N-MeFOSA-M



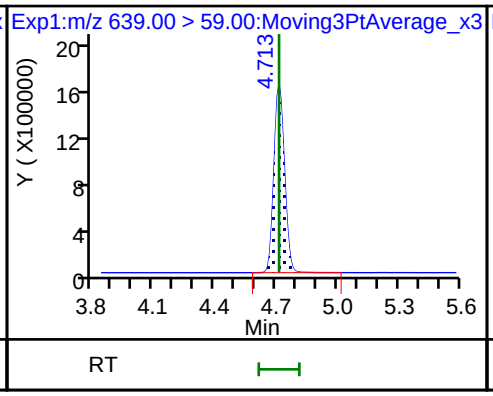
51 11-Chloroeicosafluoro-3-oxaundec



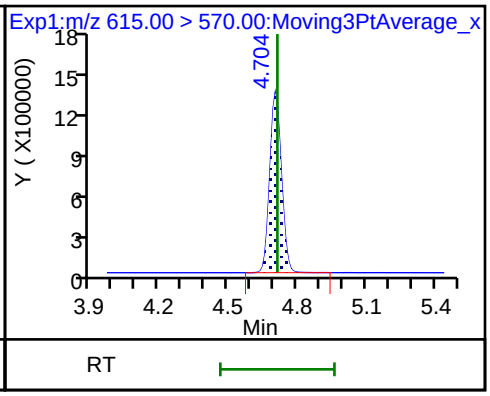
50 NMeFOSA



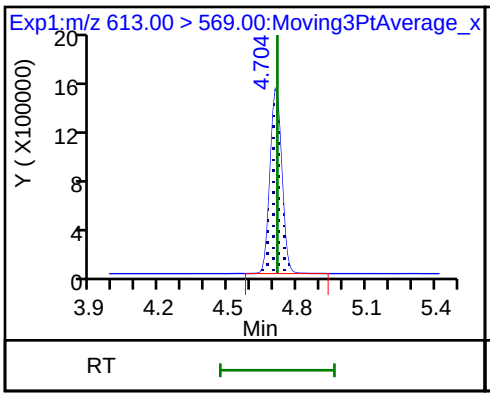
D 53 d9-N-EtFOSE-M



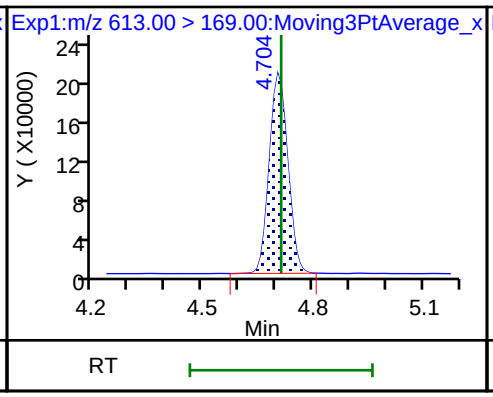
D 56 13C2 PFDoA



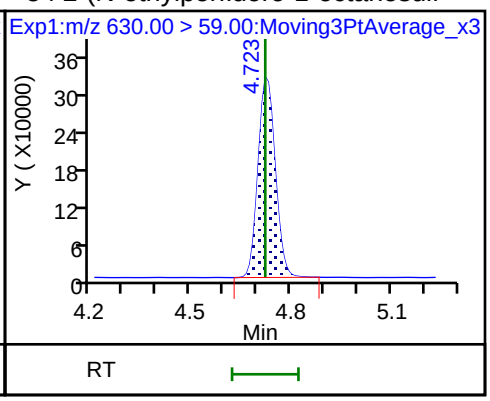
52 Perfluorododecanoic acid



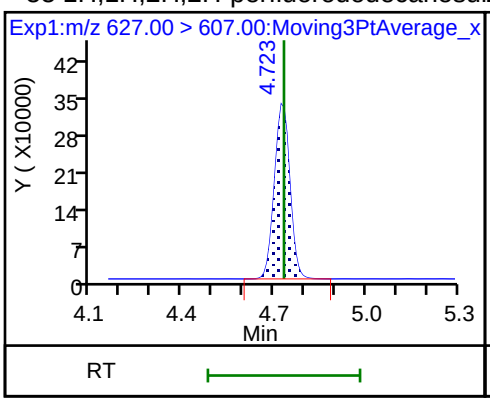
52 Perfluorododecanoic acid



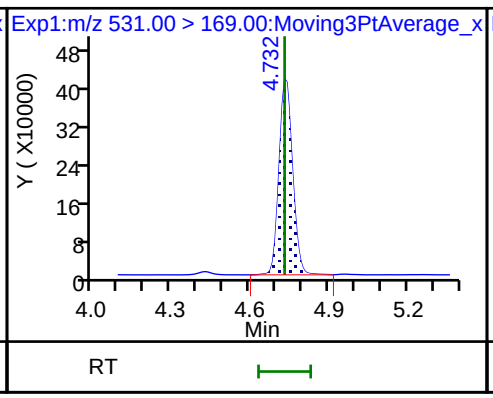
54 2-(N-ethylperfluoro-1-octanesulf



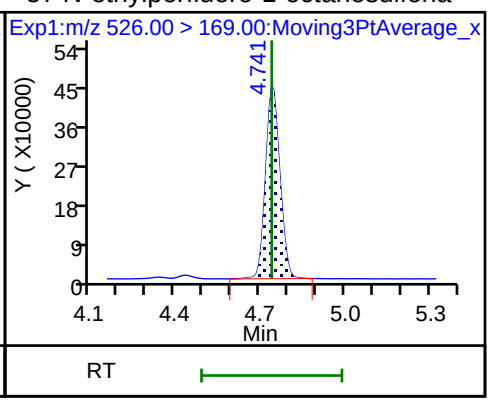
55 1H,1H,2H,2H-perfluorododecanesul



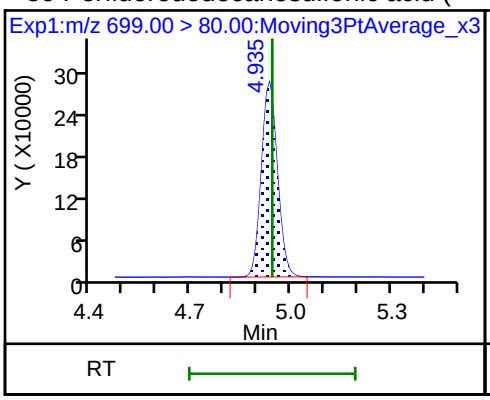
D 58 d-N-EtFOSA-M



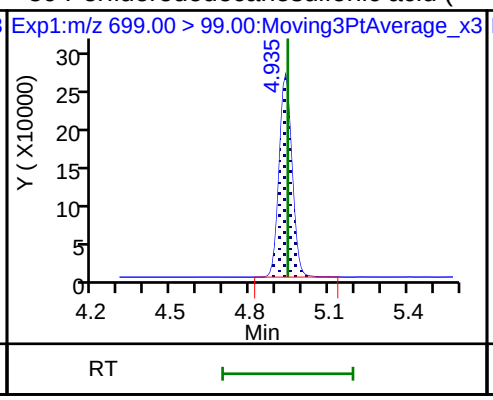
57 N-ethylperfluoro-1-octanesulfona



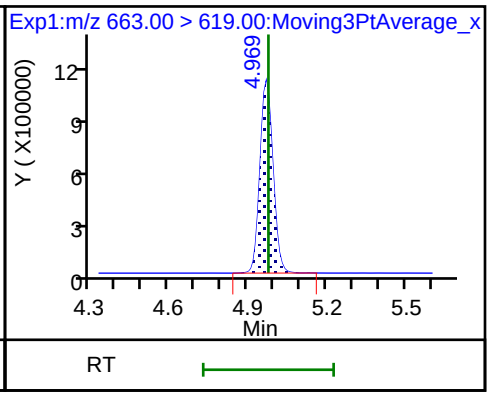
59 Perfluorododecanesulfonic acid (



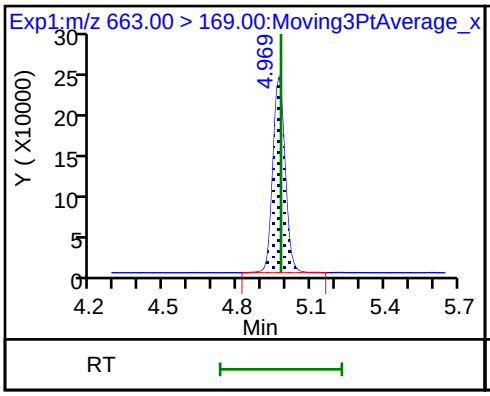
59 Perfluorododecanesulfonic acid (



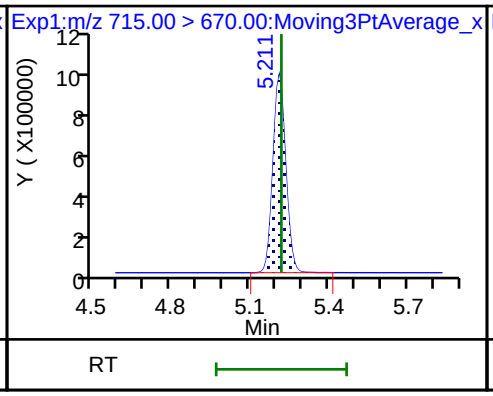
60 Perfluorotridecanoic acid



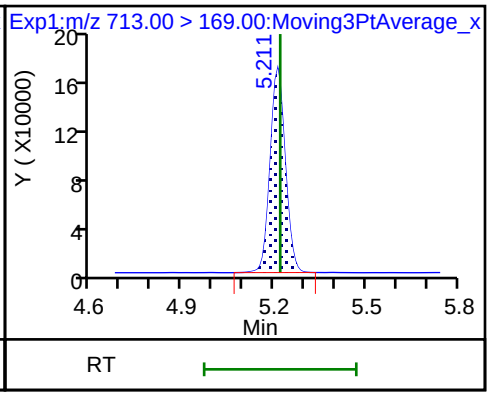
60 Perfluorotridecanoic acid



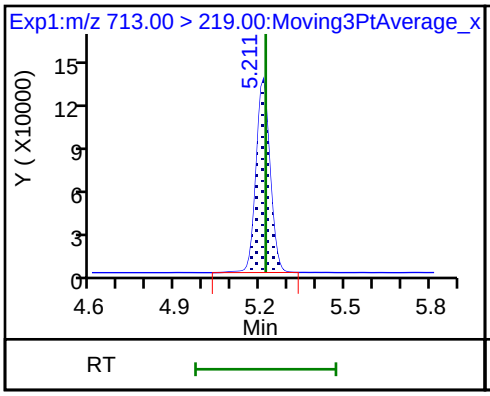
D 62 13C2 PFTeDA



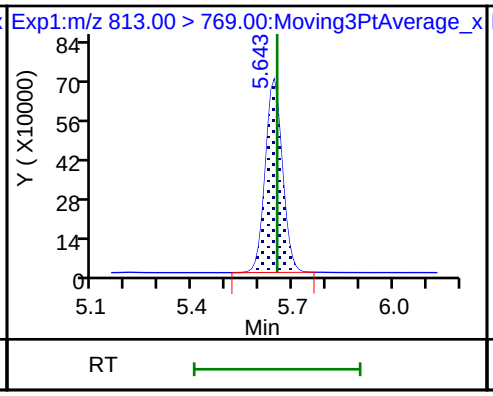
61 Perfluorotetradecanoic acid



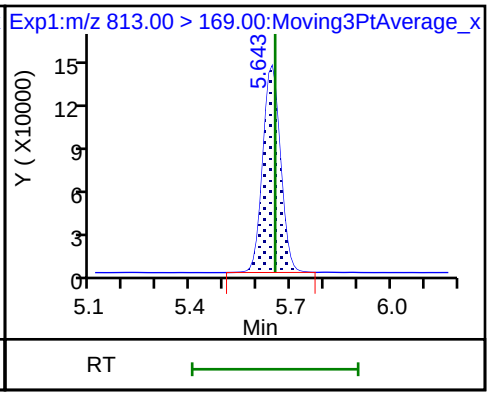
61 Perfluorotetradecanoic acid



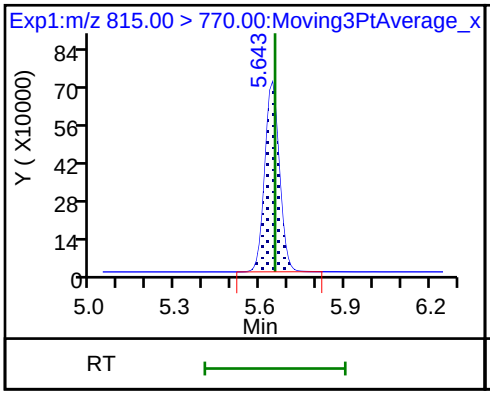
64 Perfluorohexadecanoic acid



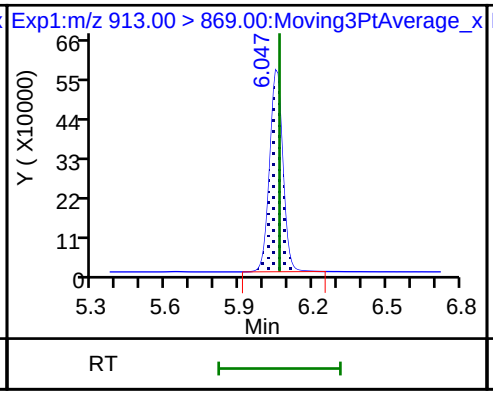
64 Perfluorohexadecanoic acid



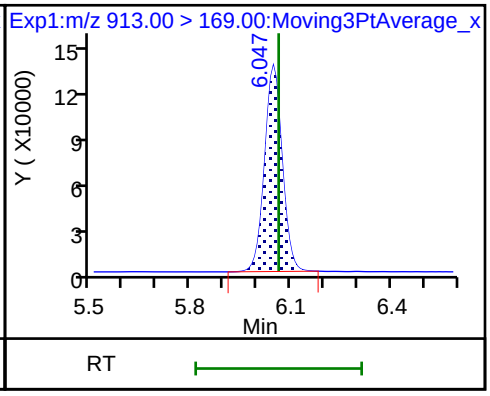
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

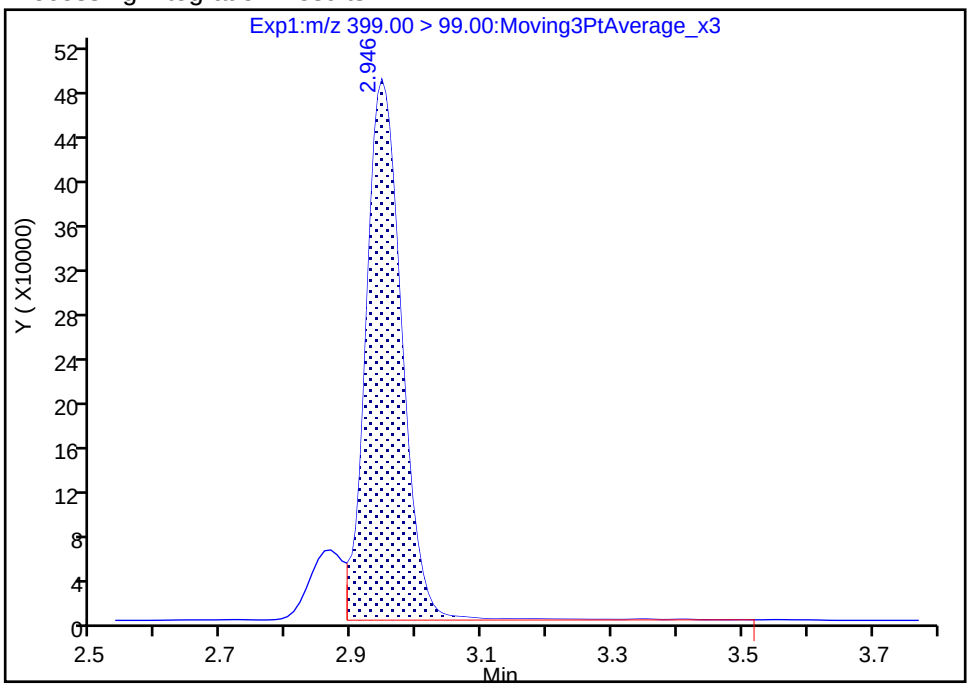
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_036.d
Injection Date: 11-Sep-2020 14:57:52 Instrument ID: A9
Lims ID: CCV L5
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 44 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

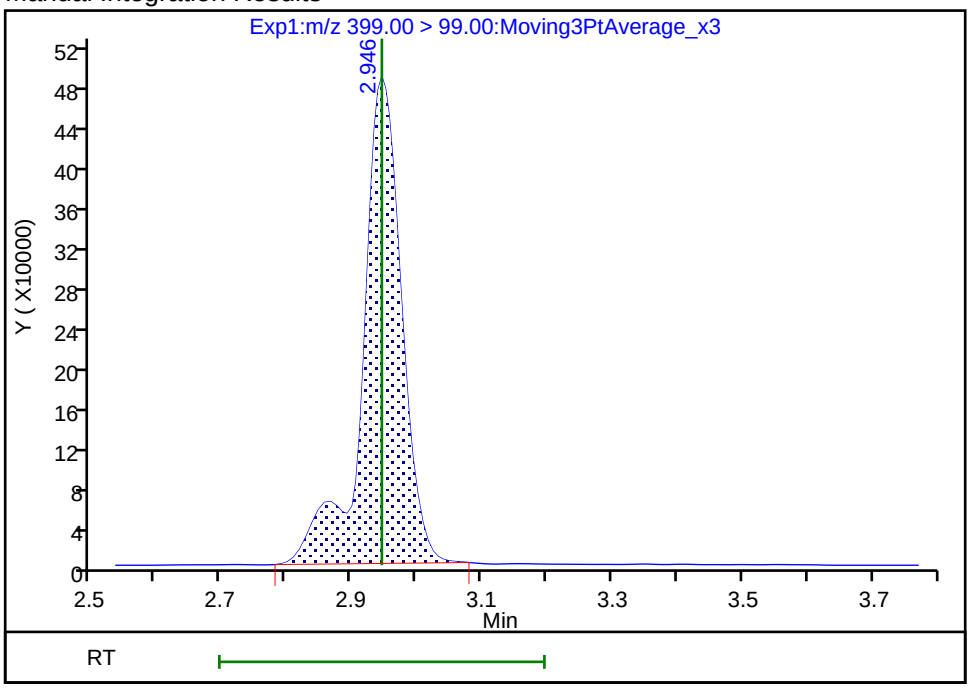
Processing Integration Results

RT: 2.95
Area: 1860297
Amount: 2.277301
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 2046439
Amount: 2.277301
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 16:55:24
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

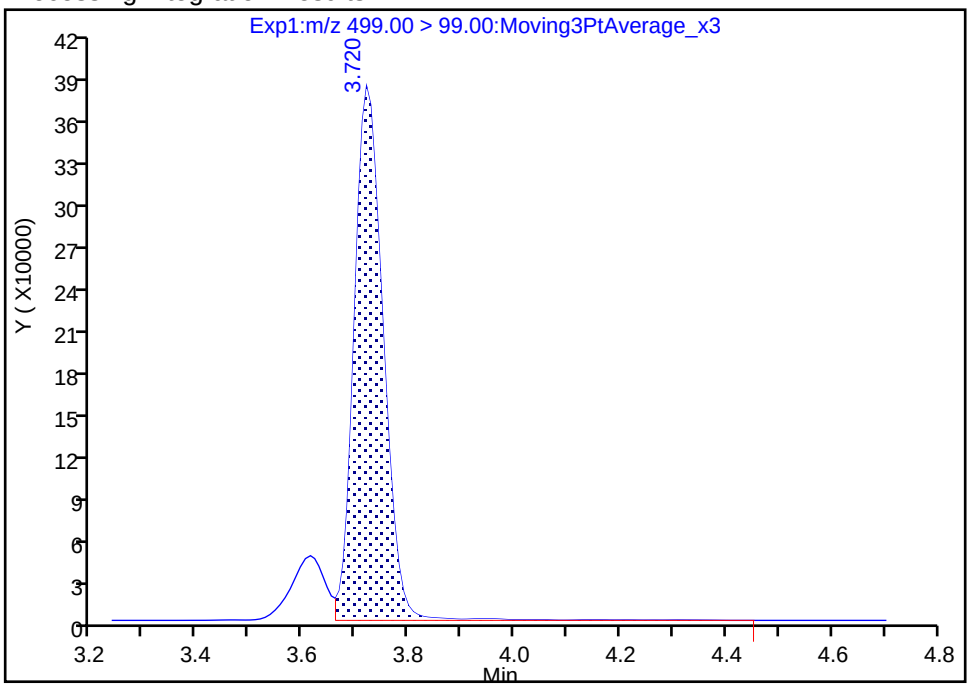
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_036.d				
Injection Date:	11-Sep-2020 14:57:52	Instrument ID:	A9		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	44	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

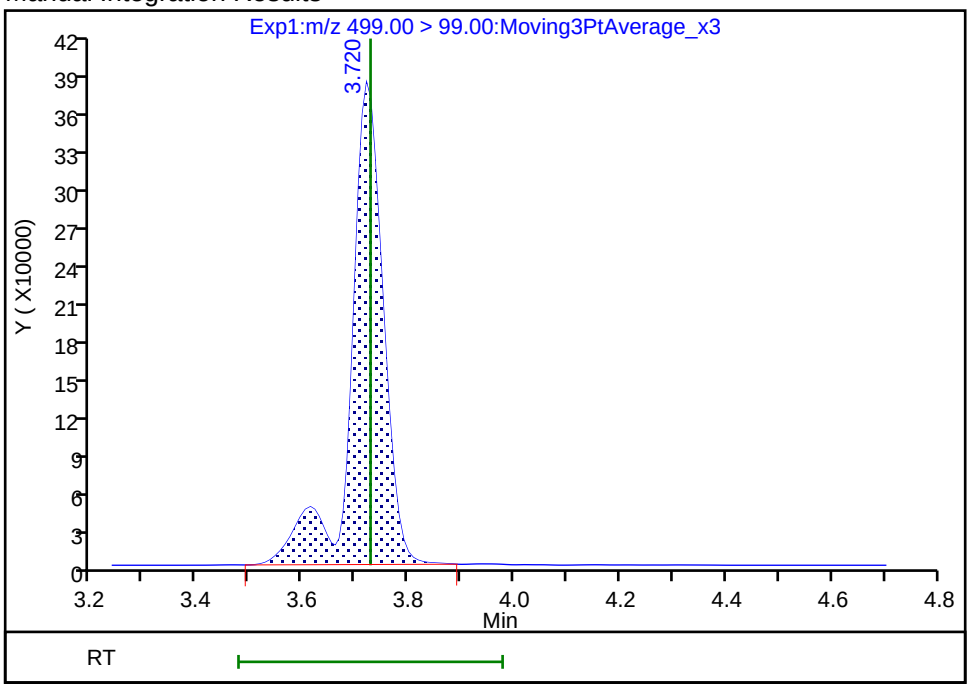
Processing Integration Results

RT: 3.72
Area: 1437768
Amount: 2.402471
Amount Units: ng/ml



Manual Integration Results

RT: 3.72
Area: 1615927
Amount: 2.402471
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 16:55:51

Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411454/18 Calibration Date: 09/11/2020 15:44

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_041.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.8734	0.997		1.14	1.00	14.2	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.018	1.076		1.06	1.00	5.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.998	1.160		1.03	0.884	16.3	50.0
4:2 FTS	AveID	1.978	2.123		1.00	0.934	7.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.8343	0.9407		1.13	1.00	12.8	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.4016	0.4437		1.04	0.938	10.5	50.0
HFPO-DA (GenX)	AveID	0.3959	0.4265		1.08	1.00	7.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.109	1.175		1.06	1.00	5.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.180	1.160		0.895	0.910	-1.7	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.813	2.062		1.07	0.942	13.7	50.0
6:2 FTS	AveID	1.542	1.643		1.01	0.948	6.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.9244	1.043		1.07	0.952	12.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.078	1.070		0.993	1.00	-0.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.040	1.124		1.00	0.928	8.1	40.0
Perfluorononanoic acid (PFNA)	AveID	0.996	1.008		1.01	1.00	1.2	40.0
F-53B Major	AveID	0.6274	0.7023		1.04	0.932	11.9	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7591	0.8290		1.05	0.960	9.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	2.782	2.860		1.03	1.00	2.8	40.0
8:2 FTS	AveID	1.288	1.377		1.02	0.958	6.9	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.998	1.075		1.08	1.00	7.7	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7593	0.8247		1.09	1.00	8.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.8492	0.9113		1.03	0.964	7.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6962	0.7772		1.12	1.00	11.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8112	0.8627		1.06	1.00	6.4	40.0
F-53B Minor	AveID	0.7398	0.9880		1.26	0.942	33.5	50.0
NMeFOSE	AveID	1.043	1.056		1.01	1.00	1.2	40.0
NMeFOSA	AveID	1.043	1.135		1.09	1.00	8.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9197	0.9857		1.08	1.01	7.2	40.0
10:2 FTS	AveID	0.8214	0.8156		0.957	0.964	-0.7	50.0
NEtFOSE	AveID	0.9939	0.9862		0.992	1.00	-0.8	40.0
NEtFOSA	AveID	0.995	1.125		1.13	1.00	13.1	40.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.1269	0.1250		0.954	0.968	-1.5	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Lab Sample ID: CCV 320-411454/18 Calibration Date: 09/11/2020 15:44

Instrument ID: A9 Calib Start Date: 09/10/2020 10:18

GC Column: Acquity ID: 2.10(mm) Calib End Date: 09/10/2020 12:29

Lab File ID: 2020.09.11_A9_PFC_AA_041.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.7267	0.7478		1.03	1.00	2.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1764	0.1817		1.03	1.00	3.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9811		1.05	1.00	5.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7480	0.7748		1.04	1.00	3.6	50.0
13C4 PFBA	Ave	1.350	1.364		2.53	2.50	1.1	50.0
13C5 PFPeA	Ave	1.138	1.075		2.36	2.50	-5.5	50.0
13C3 PFBS	Ave	2.249	2.294		2.37	2.33	2.0	50.0
M2-4:2 FTS	Ave	0.2233	0.2117		2.21	2.34	-5.2	50.0
13C2 PFHxA	Ave	1.058	1.015		2.40	2.50	-4.1	50.0
13C3 HFPO-DA	Ave	0.7264	0.7404		2.55	2.50	1.9	50.0
13C4 PFHpA	Ave	1.030	1.036		2.51	2.50	0.6	50.0
18O2 PFHxS	Ave	1.076	1.131		2.49	2.37	5.1	50.0
M2-6:2 FTS	Ave	0.1925	0.1763		2.18	2.38	-8.4	50.0
13C4 PFOA	Ave	0.9654	0.995		2.58	2.50	3.1	50.0
13C4 PFOS	Ave	1.123	1.145		2.44	2.39	2.0	50.0
13C5 PFNA	Ave	0.8376	0.9326		2.78	2.50	11.3	50.0
13C8 FOSA	Ave	0.5280	0.5353		2.54	2.50	1.4	50.0
13C2 PFDA	Ave	1.063	1.092		2.57	2.50	2.7	50.0
M2-8:2 FTS	Ave	0.2357	0.2206		2.24	2.40	-6.4	50.0
d3-NMeFOSAA	Ave	0.5286	0.4721		2.23	2.50	-10.7	50.0
13C2 PFUnA	Ave	0.8198	0.8293		2.53	2.50	1.2	50.0
d5-NEtFOSAA	Ave	0.3541	0.3292		2.32	2.50	-7.0	50.0
d7-N-MeFOSE-M	Ave	0.1700	0.1721		12.7	12.5	1.3	50.0
d-N-MeFOSA-M	Ave	0.2378	0.2447		2.57	2.50	2.9	50.0
13C2 PFDoA	Ave	0.8051	0.8135		2.53	2.50	1.0	50.0
d9-N-EtFOSE-M	Ave	0.1785	0.1899		13.3	12.5	6.4	50.0
d-N-EtFOSA-M	Ave	0.2469	0.2480		2.51	2.50	0.5	50.0
13C2 PFTeDA	Ave	0.5615	0.5349		2.38	2.50	-4.7	50.0
13C2 PFHxDA	Ave	0.4152	0.4039		2.43	2.50	-2.7	50.0
13C8 PFOA	Ave	0.8088	0.9926		3.00	2.45	22.7	50.0
13C8 PFOS	Ave	0.2542	0.2697		2.54	2.39	6.1	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_041.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Sep-2020 15:44:37 ALS Bottle#: 43 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9
Sublist: chrom-PFAS_A9*sub16

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 17:27:44 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 17:27:44
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.893	1.893	0.0	0.566	8041797	2.53		101	2675	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.893	1.893	0.0	1.000	3207882	1.14		114	98.8	
D 4 13C5 PFPeA										
267.90 > 223.00	2.198	2.198	0.0	0.657	6338966	2.36		94.5	2201	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.198	2.198	0.0	1.000	2727971	1.06		106	93.4	
D 6 13C3 PFBS										
301.90 > 80.00	2.224	2.224	0.0	0.665	12574832	2.37		102	2991	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.224	2.224	0.0	1.000	5545934	1.03	Target=3.10	116	436	
298.90 > 99.00	2.224	2.224	0.0	1.000	1706011		3.25(1.55-4.65)		250	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.515	2.515	0.0	1.000	989983	1.00		107	5241	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.515	2.515	0.0	0.752	1165641	2.21		94.8	585	
D 10 13C2 PFHxA										
315.00 > 270.00	2.547	2.547	0.0	0.761	5984468	2.40		95.9	2118	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.547	2.547	0.0	1.000	2251861	1.13	Target=9.68	113	152	
313.00 > 119.00	2.547	2.547	0.0	1.000	226539		9.94(4.84-14.52)		136	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.568	2.568	0.0	1.155	2251196	1.04	Target=2.01	111	652	
349.00 > 99.00	2.568	2.568	0.0	1.155	1146590		1.96(1.00-3.01)		494	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.661	2.661	0.0	0.795	4364319	2.55		102	2673	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.674	2.674	0.0	1.005	744557	1.08		108	1588	
D 15 13C4 PFHpA										
367.00 > 322.00	2.940	2.940	0.0	0.879	6106188	2.51		101	2721	
D 17 18O2 PFHxS										
403.00 > 84.00	2.940	2.940	0.0	0.879	6306344	2.49		105	2872	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.940	2.940	0.0	1.000	2869928	1.06	Target=3.74	106	278	
363.00 > 169.00	2.940	2.940	0.0	1.000	758770		3.78(1.87-5.61)		468	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.946	2.946	0.0	1.002	2813881	0.8946	Target=3.29	98.3	522	
399.00 > 99.00	2.940	2.946	-0.006	1.000	835608		3.37(1.65-4.94)		346	M
19 DONA										
377.00 > 251.00	2.987	2.987	0.0	0.803	5245778	1.07	Target=1.80	114	3705	
377.00 > 85.00	2.987	2.987	0.0	0.803	2843873		1.84(0.90-2.70)		1780	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.324	3.324	0.0	0.994	987315	2.17		91.6	818	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.324	3.324	0.0	1.000	647433	1.01		107	550	
$ 21 13C8 PFOA										
421.00 > 376.00	3.338	3.338	0.0	0.998	5728109	3.00		123	7328	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.338	3.338	0.0	0.897	2681835	1.07	Target=3.65	113	814	
449.00 > 99.00	3.338	3.338	0.0	0.897	706872		3.79(1.83-5.48)		839	
D 26 13C4 PFOA										
417.00 > 372.00	3.345	3.345	0.0	1.000	5866616	2.58		103	4365	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.345	3.345	0.0	1.000	2513129	0.99	Target=2.37	99.2	329	
413.00 > 169.00	3.345	3.345	0.0	1.000	1081067		2.32(1.19-3.56)		705	
* 25 13C2 PFOA										
415.00 > 370.00	3.345	3.345	0.0		5894884	2.50			5070	
$ 27 13C8 PFOS										
507.00 > 99.00	3.712	3.712	0.0	1.110	1520066	2.54		106	1842	
D 31 13C4 PFOS										
503.00 > 80.00	3.720	3.720	0.0	1.112	6454736	2.44		102	2114	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.720	3.720	0.0	1.000	2816671	1.00	Target=4.12	108	312	
499.00 > 99.00	3.720	3.720	0.0	1.000	650156		4.33(2.06-6.17)		787	M
D 29 13C5 PFNA										
468.00 > 423.00	3.735	3.735	0.0	1.117	5497606	2.78		111	5007	
30 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.735	0.0	1.000	2220351	1.01	Target=4.21	101	1116	
463.00 > 169.00	3.727	3.735	-0.008	0.998	525521		4.23(2.11-6.32)		527	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.918	3.918	0.0	1.053	1767727	1.04		112	3314	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.065	4.065	0.0	1.093	2149376	1.05	Target=5.56	109	1202	
549.00 > 99.00	4.065	4.065	0.0	1.093	387376		5.55(2.78-8.34)		1864	
D 36 13C8 FOSA										
506.00 > 78.00	4.074	4.074	0.0	1.218	3155452	2.53		101	2612	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.074	0.0	1.000	3609985	1.03		103	3177	
D 33 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.223	6435633	2.57		103	5970	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.092	0.0	1.000	2766140	1.08	Target=14.33	108	904	
513.00 > 169.00	4.092	4.092	0.0	1.000	177522		15.58(7.16-21.49)		205	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.092	0.0	1.000	686219	1.02		107	2439	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.223	1245764	2.24		93.6	789	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.253	4.253	0.0	1.271	2782759	2.23		89.3	2238	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.262	4.262	0.0	1.002	917947	1.09		109	155	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.384	4.384	0.0	1.178	2372557	1.03	Target=4.29	107	882	
599.00 > 99.00	4.384	4.384	0.0	1.178	532247		4.46(2.15-6.44)		1234	
D 46 13C2 PFUnA										
565.00 > 520.00	4.409	4.409	0.0	1.318	4888463	2.53		101	4814	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.409	4.409	0.0	1.000	1521299	1.12	Target=6.74	112	1558	
563.00 > 169.00	4.409	4.409	0.0	1.000	217331		7.00(3.37-10.11)		583	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.418	4.418	0.0	1.321	1940623	2.32		93.0	2212	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.426	4.426	0.0	1.002	669667	1.06		106	2188	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.538	4.538	0.0	1.356	5073963	12.7		101	2609	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.546	4.546	0.0	1.222	2513633	1.26		134	5469	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.546	4.546	0.0	1.002	428650	1.01		101	643	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.555	4.555	0.0	1.362	1442602	2.57		103	247	
50 NMeFOSA										
512.00 > 169.00	4.564	4.564	0.0	1.002	655020	1.09		109	1062	
D 56 13C2 PFDoA										
615.00 > 570.00	4.704	4.704	0.0	1.406	4795511	2.53		101	7796	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.704	4.704	0.0	1.000	1902100	1.08	Target=6.67	107	1625	
613.00 > 169.00	4.704	4.704	0.0	1.000	265039		7.18(3.34-10.01)		807	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.713	4.713	0.0	1.409	5597833	13.3		106	1476	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.722	4.722	0.0	1.002	441642	0.99		99.2	654	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.722	4.722	0.0	1.154	408986	0.9572		99.3	2521	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.731	4.731	0.0	1.414	1462184	2.51		100	899	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.740	4.740	0.0	1.002	658071	1.13		113	619	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.935	4.935	0.0	1.327	326676	0.9535	Target=1.02	98.5	539	
699.00 > 99.00	4.935	4.935	0.0	1.327	329766		0.99(0.51-1.53)		1268	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.969	4.969	0.0	1.056	1434367	1.03	Target=4.80	103	1920	
663.00 > 169.00	4.969	4.969	0.0	1.056	302745		4.74(2.40-7.20)		1600	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.211	5.211	0.0	1.558	3153422	2.38		95.3	5966	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.211	5.211	0.0	1.000	229380	1.03	Target=1.37	103	1102	
713.00 > 219.00	5.203	5.211	-0.008	0.998	161876		1.42(0.69-2.06)		995	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.634	5.634	0.0	1.684	2380688	2.43		97.3	6149	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.643	5.643	0.0	1.002	934279	1.05	Target=4.63	105	1948	
813.00 > 169.00	5.634	5.643	-0.009	1.000	198316		4.71(2.32-6.95)		1109	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.047	6.047	0.0	1.073	737797	1.04	Target=4.01	104	1342	
913.00 > 169.00	6.047	6.047	0.0	1.073	178315		4.14(2.01-6.02)		953	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 17:27:46 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_041.d

Injection Date: 11-Sep-2020 15:44:37 Instrument ID: A9

Lims ID: CCV L4

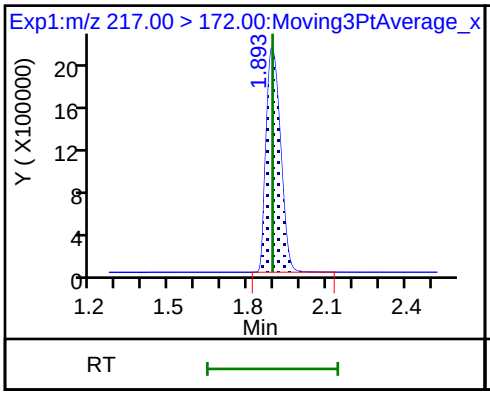
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 43 Worklist Smp#: 18

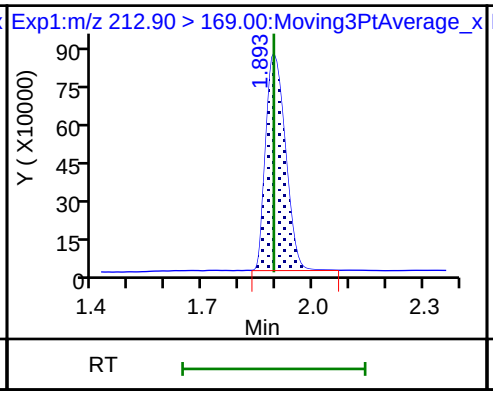
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

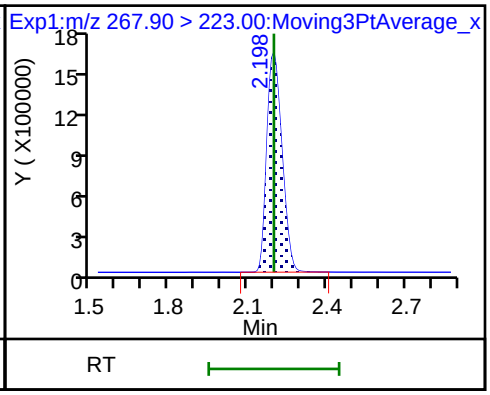
D 1 13C4 PFBA



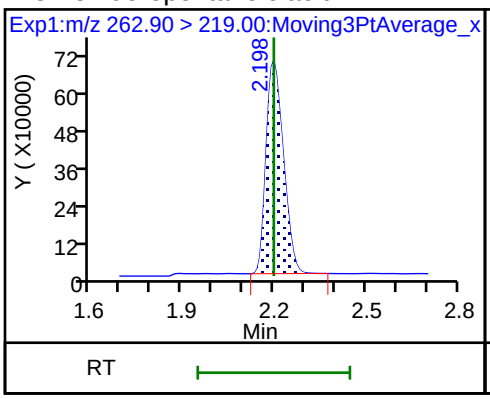
2 Perfluorobutanoic acid



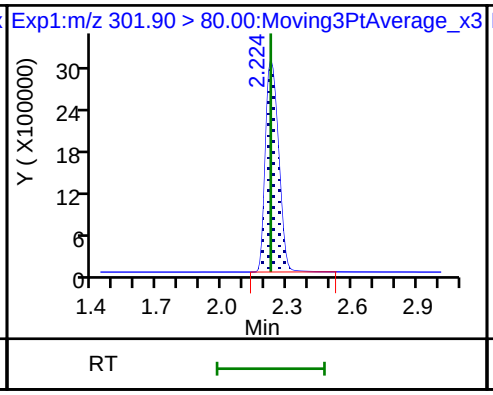
D 4 13C5 PFPeA



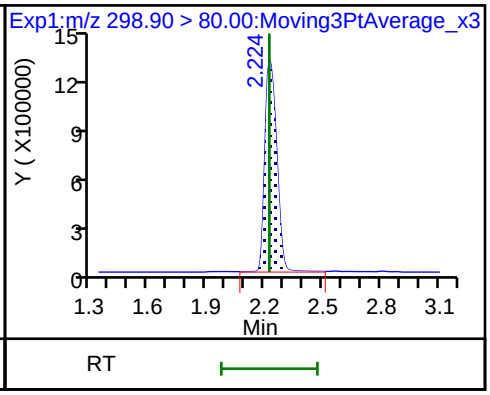
3 Perfluoropentanoic acid



D 6 13C3 PFBS



5 Perfluorobutanesulfonic acid



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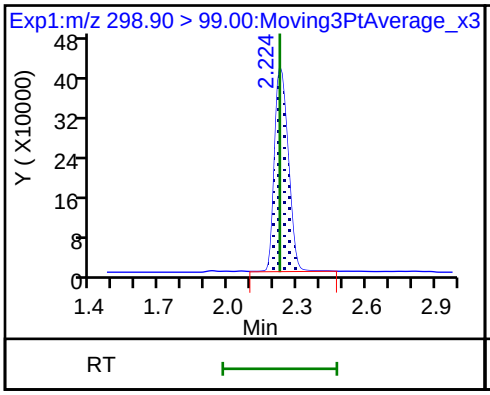
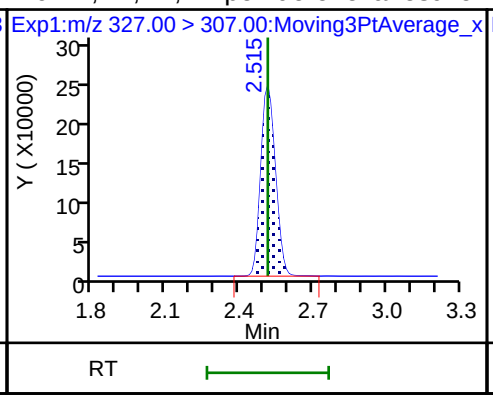
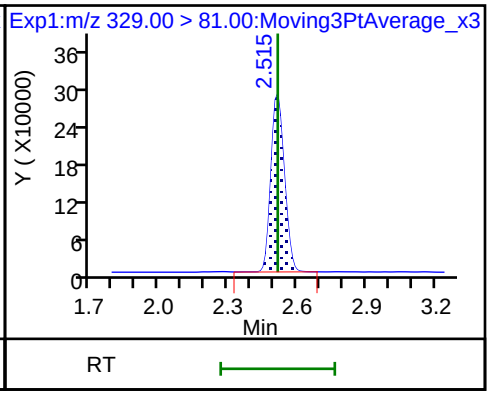


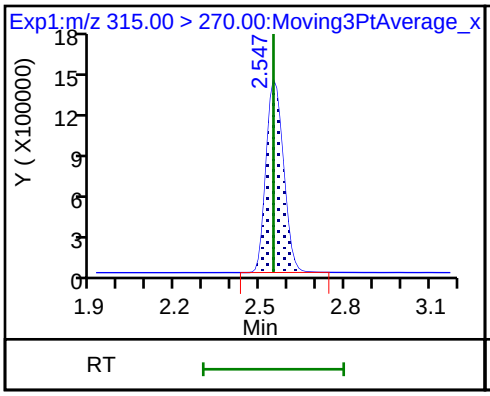
9 1H,1H,2H,2H-perfluorohexanesulfo



D 8 M2-4:2 FTS



D 10 13C2 PFHxA



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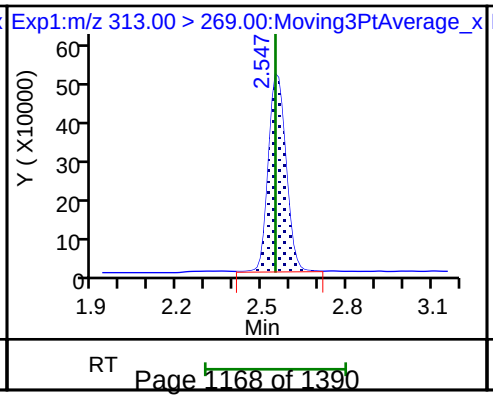

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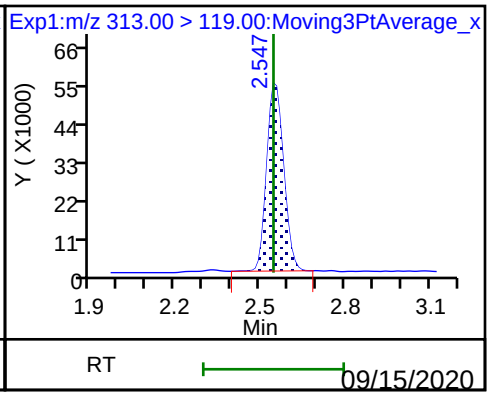
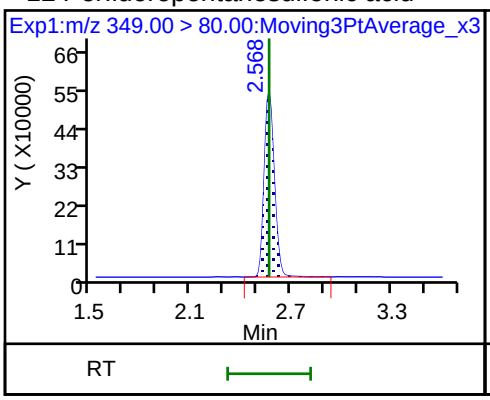
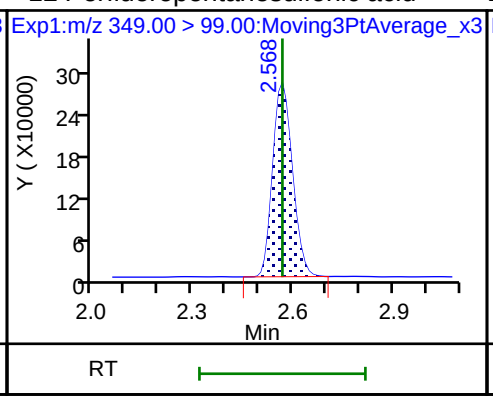


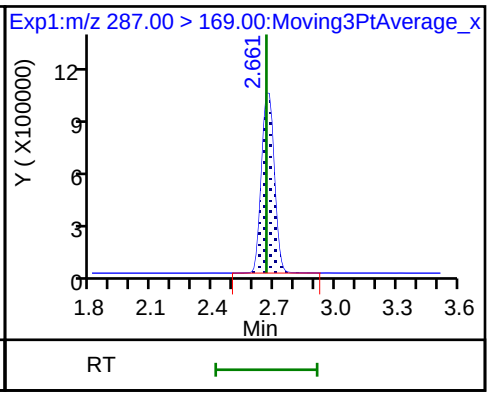
12 Perfluoropentanesulfonic acid



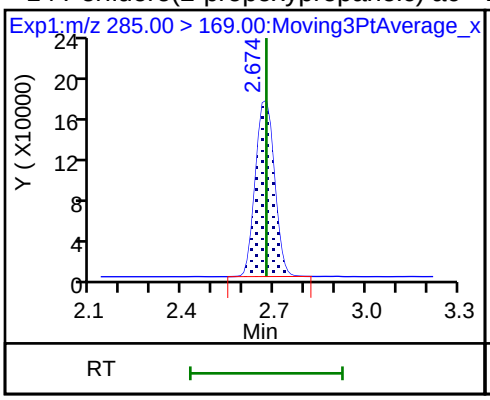
12 Perfluoropentanesulfonic acid



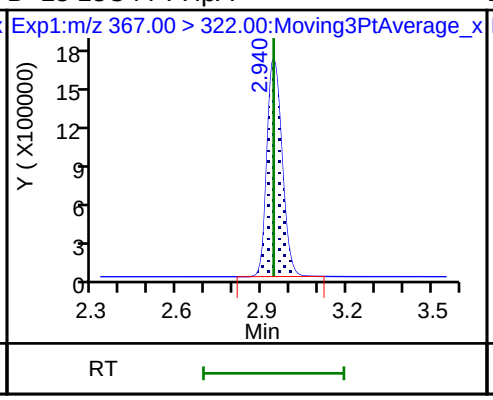
D 13 13C3 HFPO-DA



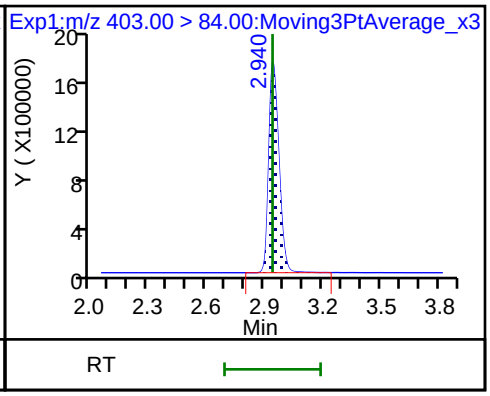
14 Perfluoro(2-propoxypropanoic) ac



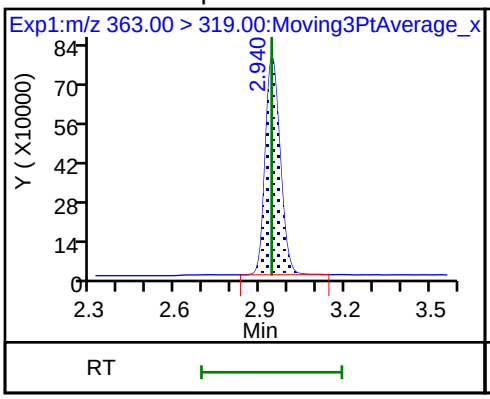
D 15 13C4 PFHpA



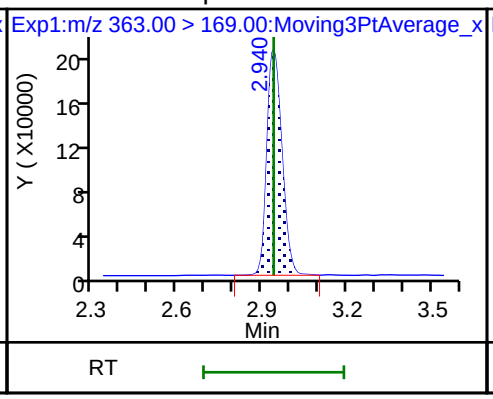
D 17 18O2 PFHxS



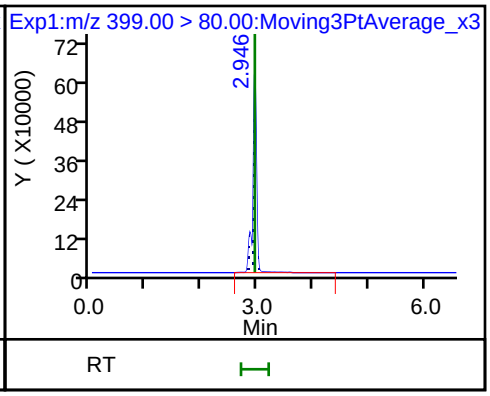
18 Perfluoroheptanoic acid



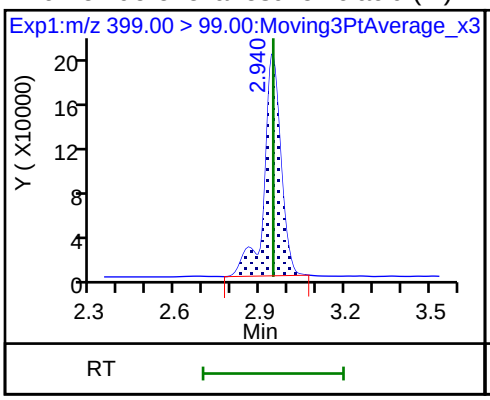
18 Perfluoroheptanoic acid



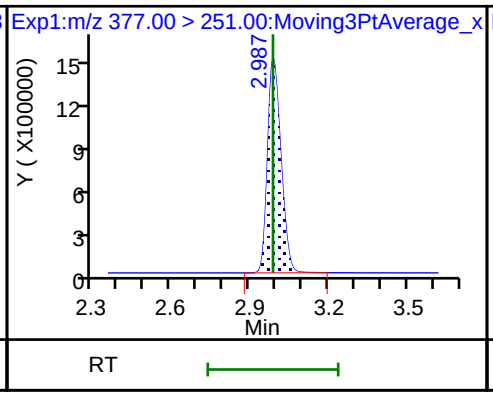
16 Perfluorohexanesulfonic acid



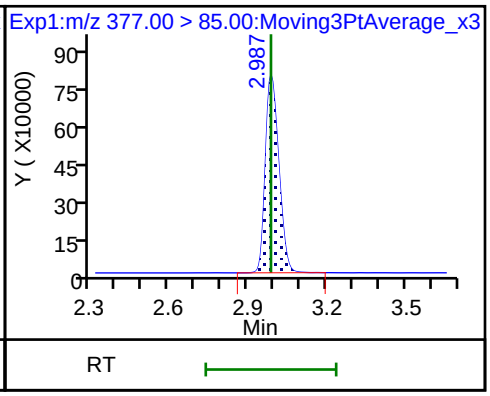
16 Perfluorohexanesulfonic acid (M)



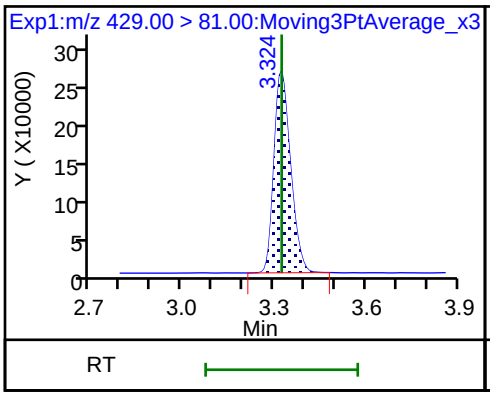
19 DONA



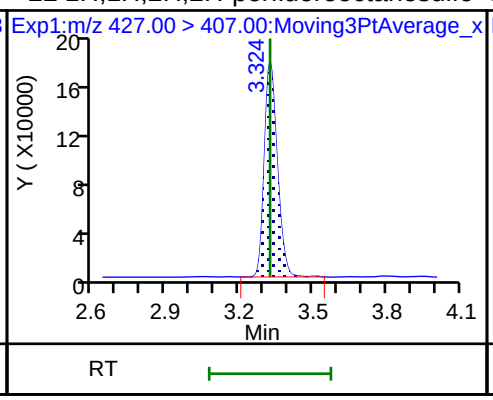
19 DONA



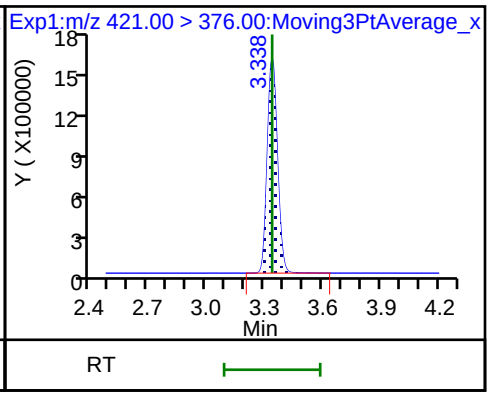
D 20 M2-6:2 FTS



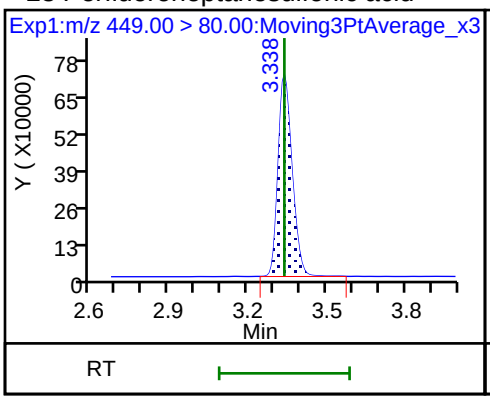
22 1H,1H,2H,2H-perfluorooctanesulfo



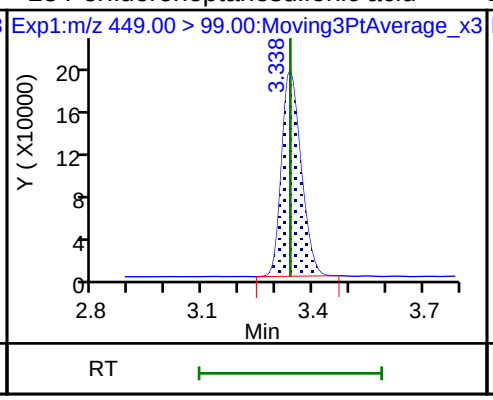
$ 21 13C8 PFOA



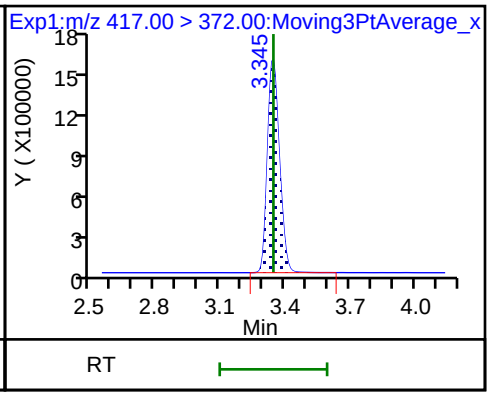
23 Perfluoroheptanesulfonic acid



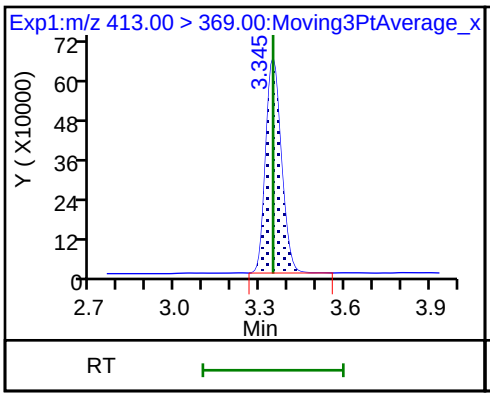
23 Perfluoroheptanesulfonic acid



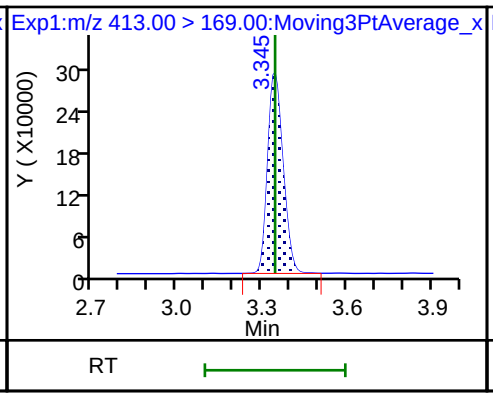
D 26 13C4 PFOA



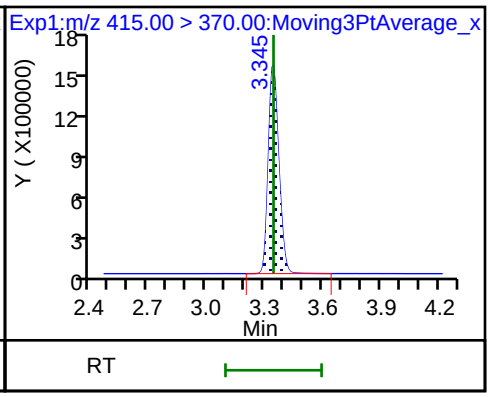
24 Perfluorooctanoic acid



24 Perfluorooctanoic acid



* 25 13C2 PFOA



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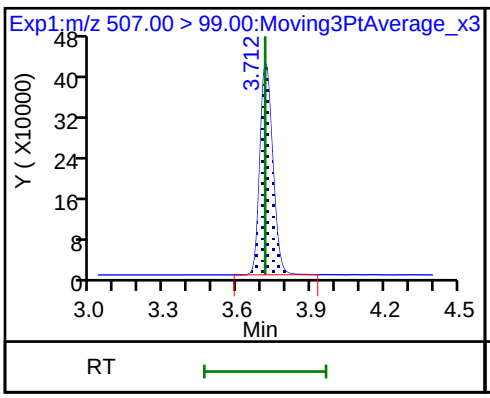
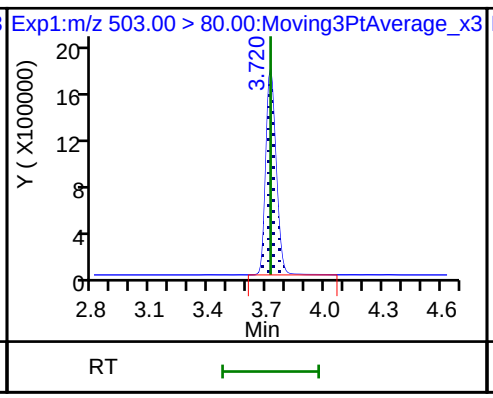
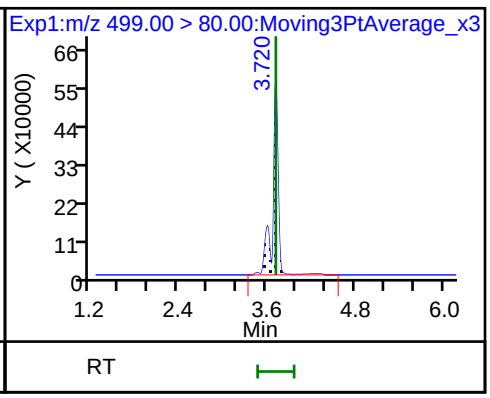


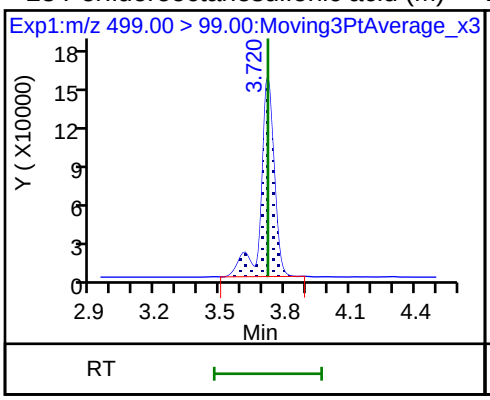
D 31 13C4 PFOS



28 Perfluorooctanesulfonic acid



28 Perfluorooctanesulfonic acid (M)



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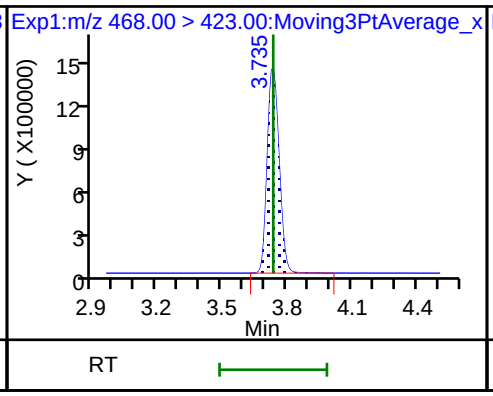
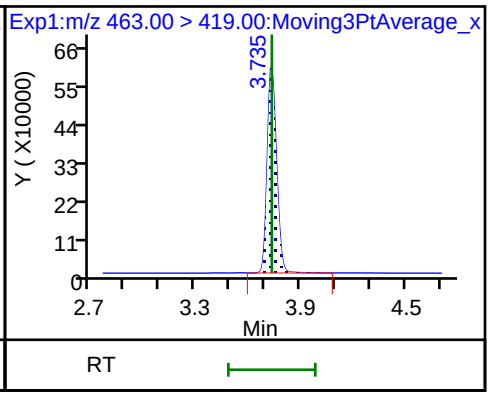
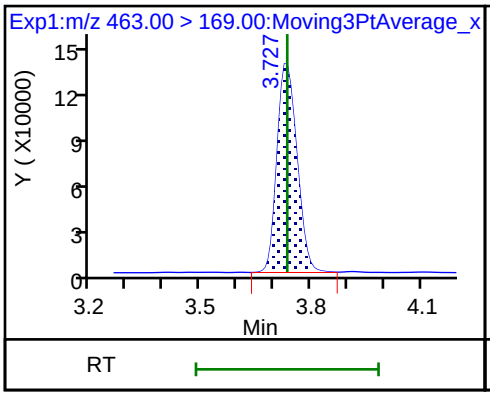


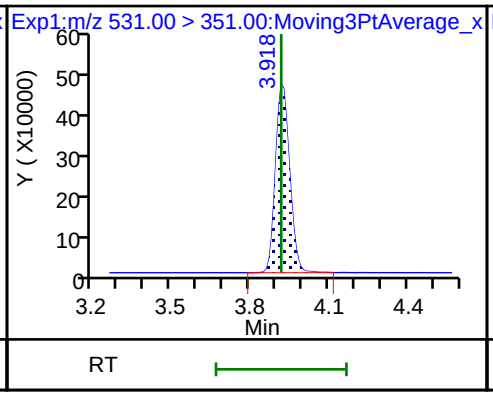
30 Perfluorononanoic acid



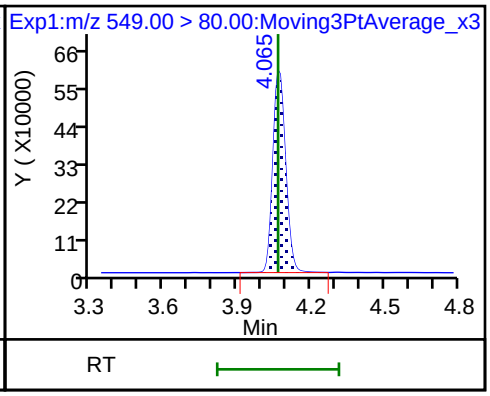
30 Perfluorononanoic acid



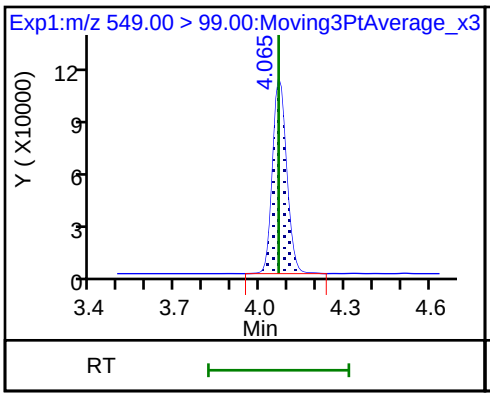
32 9-Chlorohexadecafluoro-3-oxanona



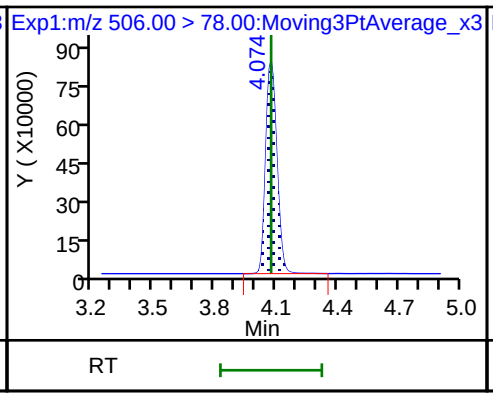
35 Perfluorononanesulfonic acid



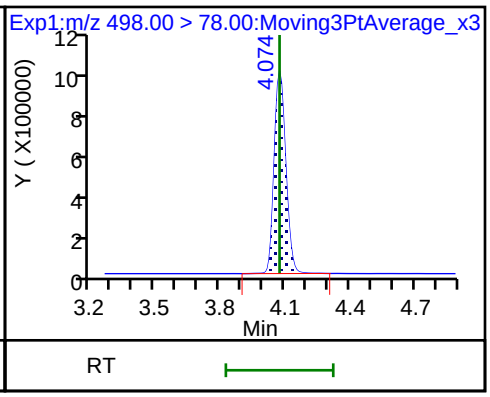
35 Perfluorononanesulfonic acid



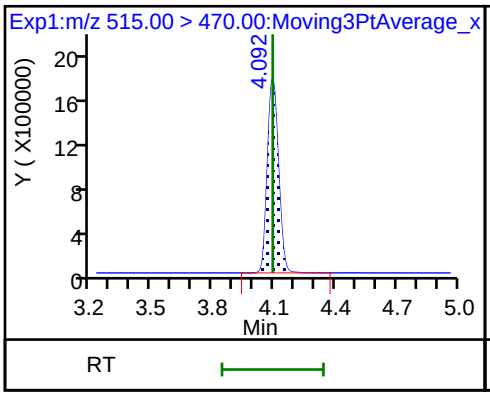
D 36 13C8 FOSA



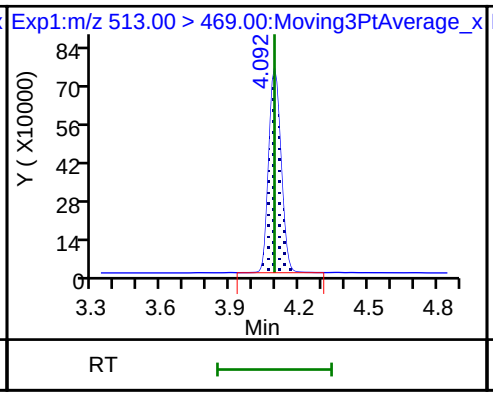
34 Perfluorooctanesulfonamide



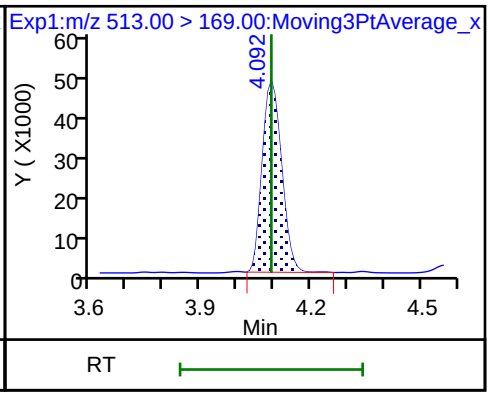
D 33 13C2 PFDA



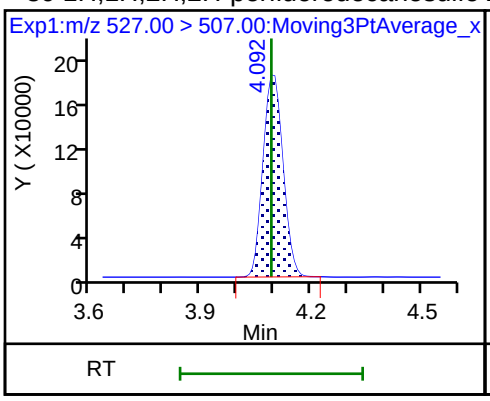
38 Perfluorodecanoic acid



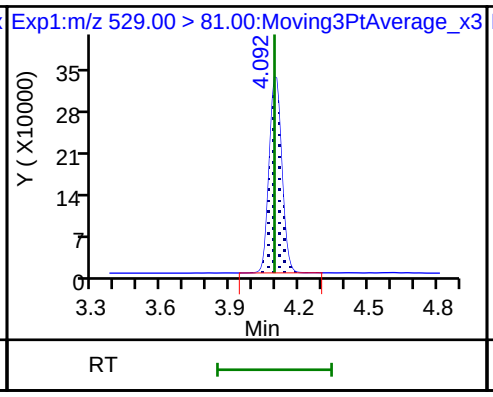
38 Perfluorodecanoic acid



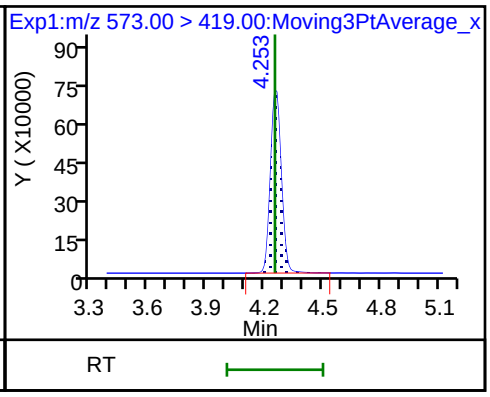
39 1H,1H,2H,2H-perfluorodecanesulfo



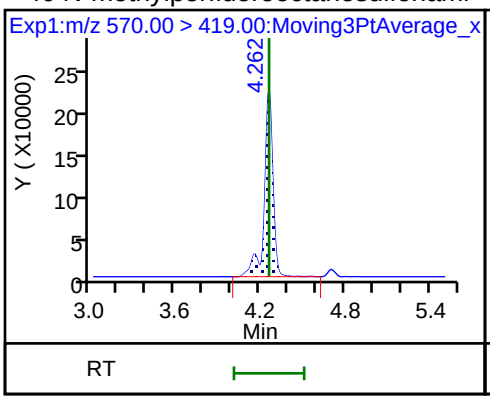
D 37 M2-8:2 FTS



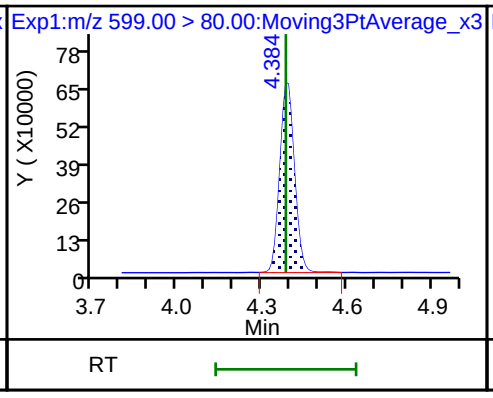
D 41 d3-NMeFOSAA



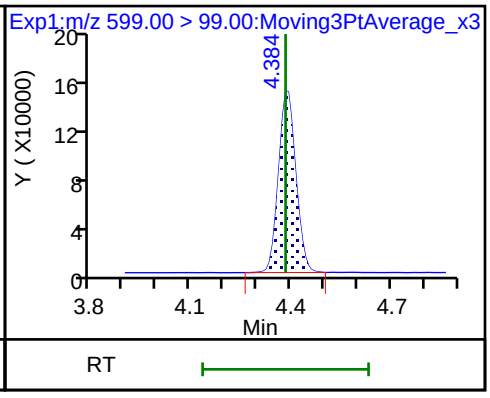
40 N-methylperfluorooctanesulfonami



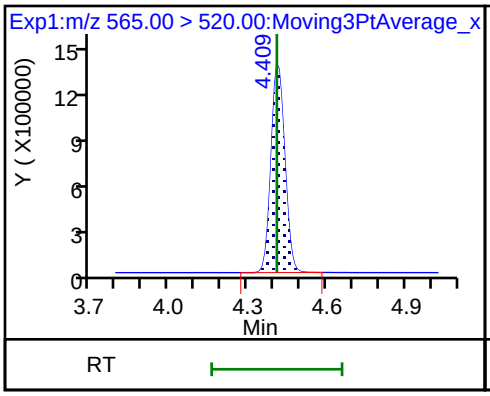
42 Perfluorodecanesulfonic acid



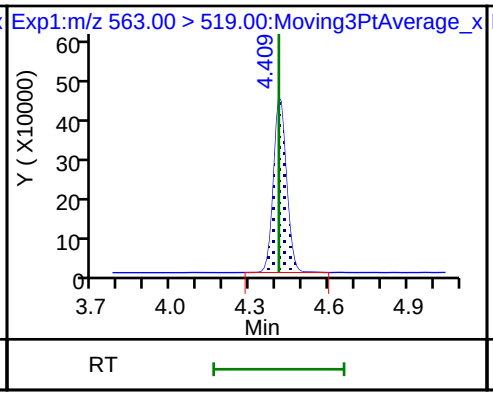
42 Perfluorodecanesulfonic acid



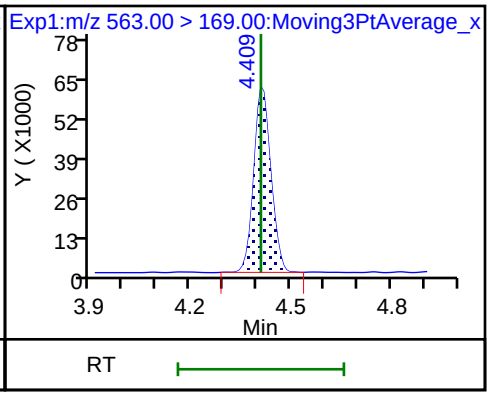
D 46 13C2 PFUnA



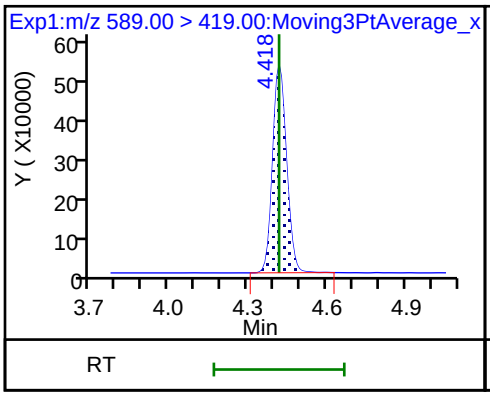
43 Perfluoroundecanoic acid



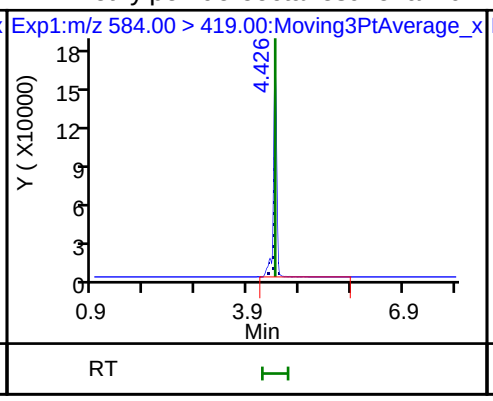
43 Perfluoroundecanoic acid



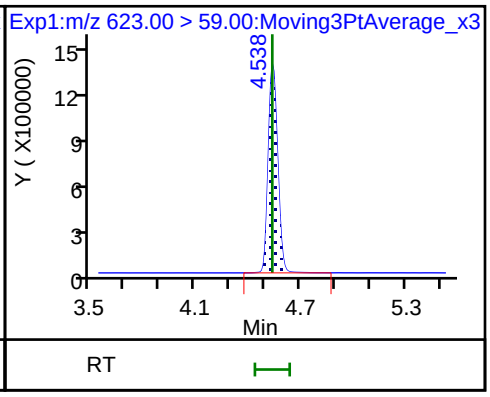
D 45 d5-NEtFOSAA



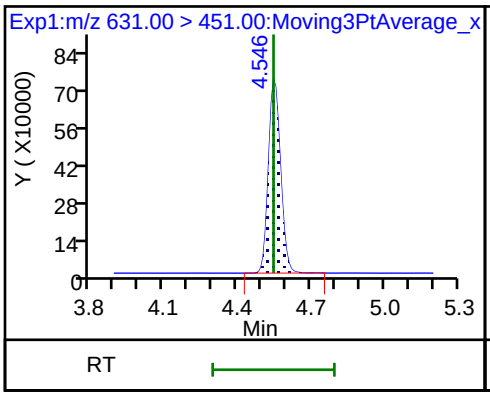
44 N-ethylperfluorooctanesulfonamid



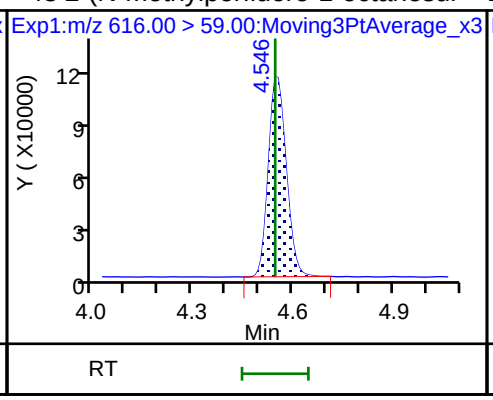
D 47 d7-N-MeFOSE-M



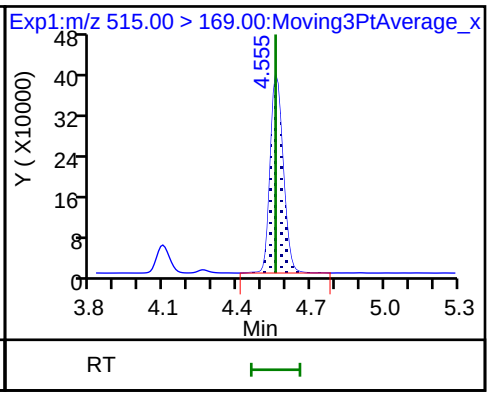
51 11-Chloroeicosafluoro-3-oxaundec



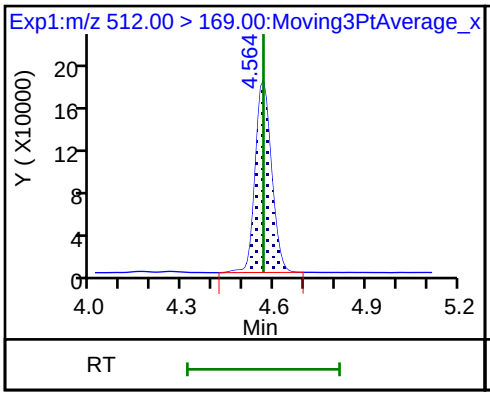
48 2-(N-methylperfluoro-1-octanesul



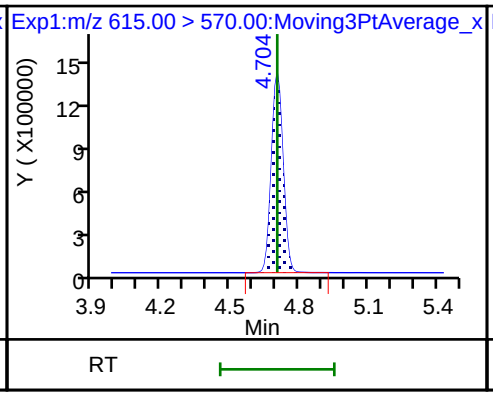
D 49 d-N-MeFOSA-M



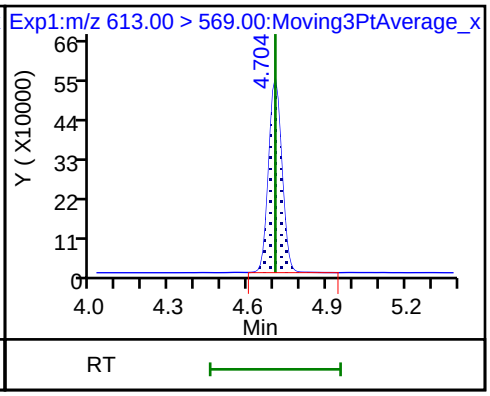
50 NMeFOSA



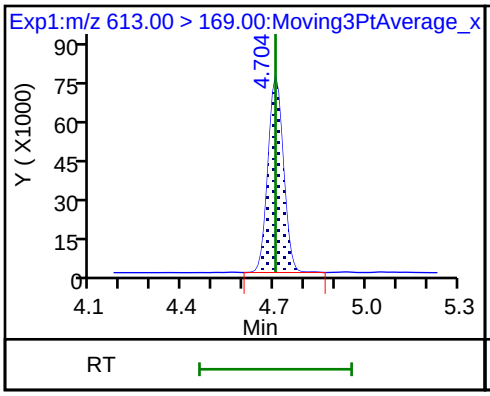
D 56 13C2 PFDoA



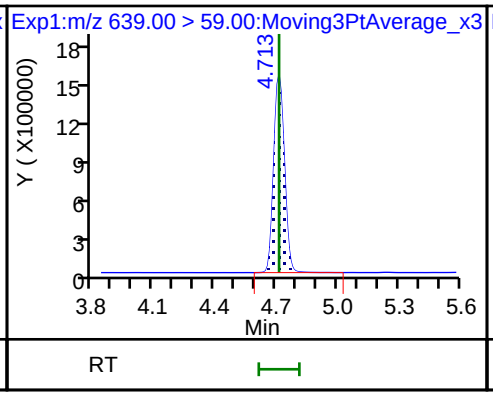
52 Perfluorododecanoic acid



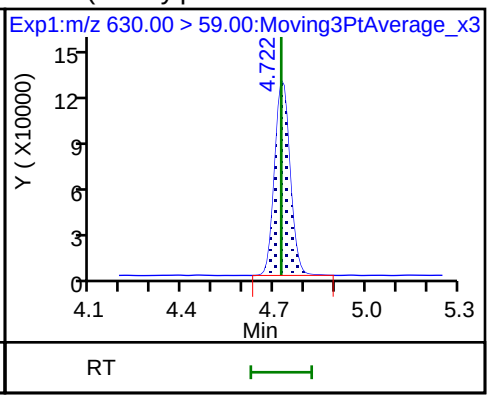
52 Perfluorododecanoic acid



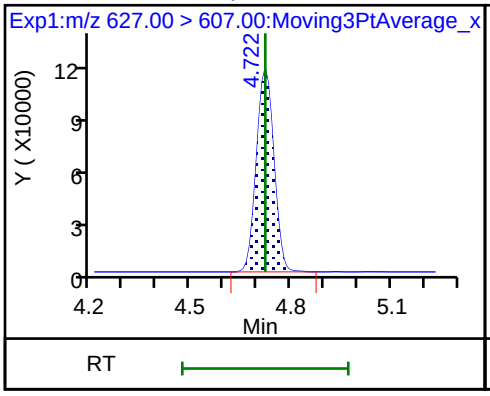
D 53 d9-N-EtFOSE-M



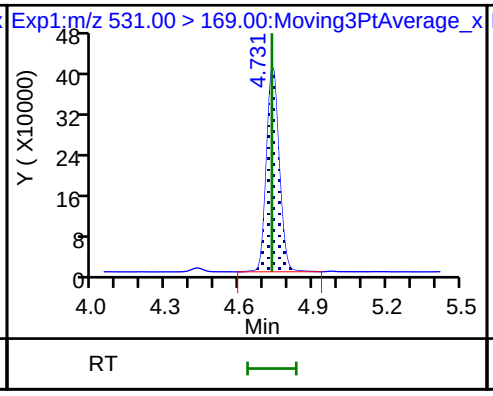
54 2-(N-ethylperfluoro-1-octanesulf



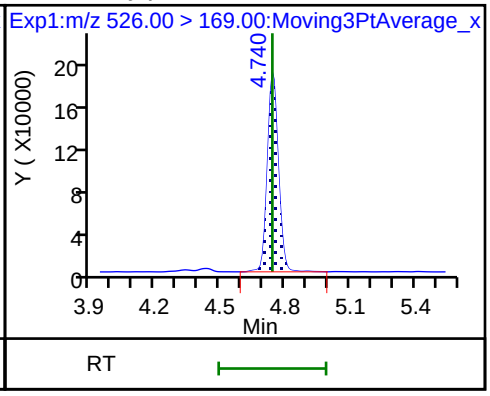
55 1H,1H,2H,2H-perfluorododecanesul



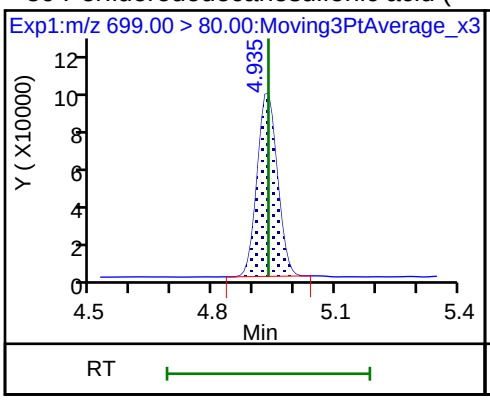
D 58 d-N-EtFOSA-M



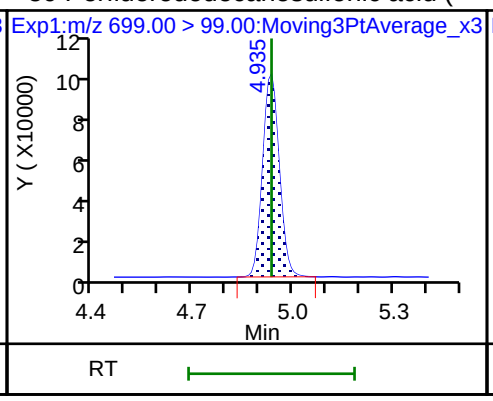
57 N-ethylperfluoro-1-octanesulfona



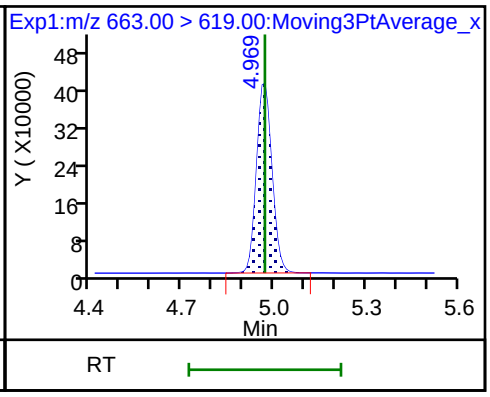
59 Perfluorododecanesulfonic acid (



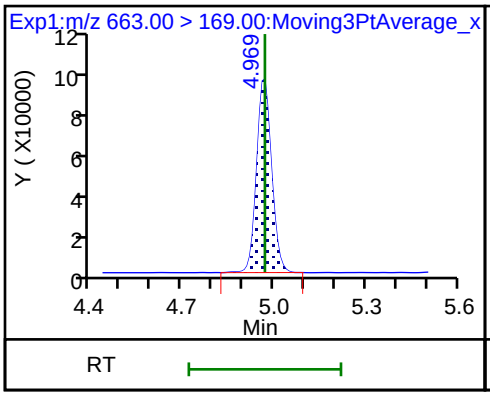
59 Perfluorododecanesulfonic acid (



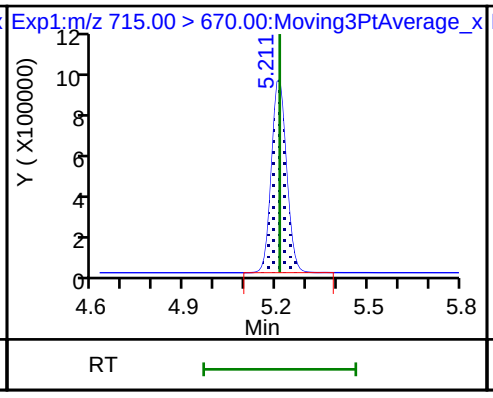
60 Perfluorotridecanoic acid



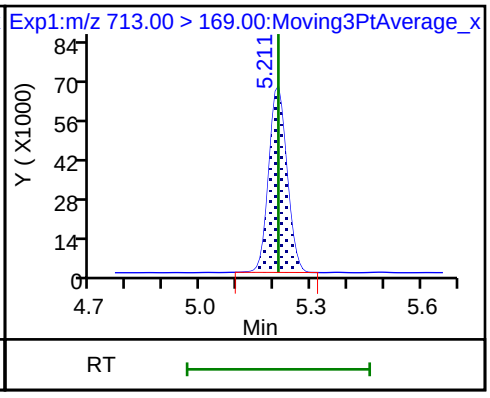
60 Perfluorotridecanoic acid



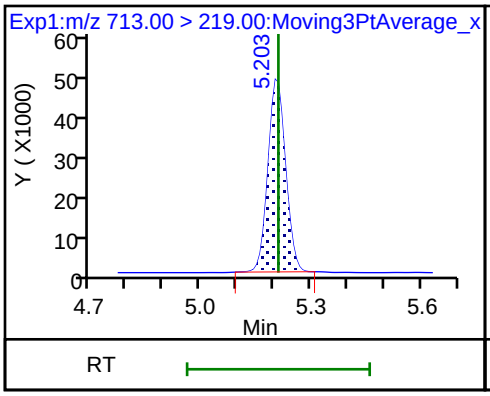
D 62 13C2 PFTeDA



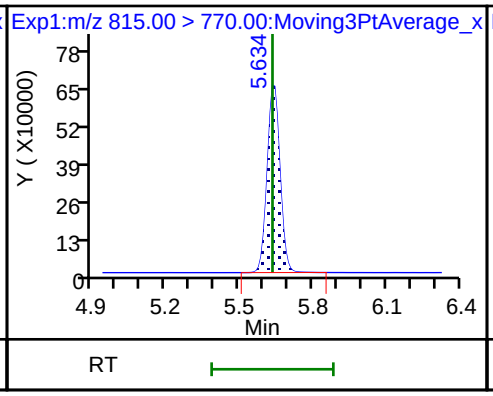
61 Perfluorotetradecanoic acid



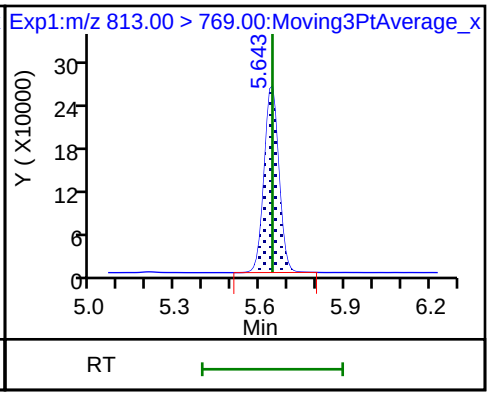
61 Perfluorotetradecanoic acid



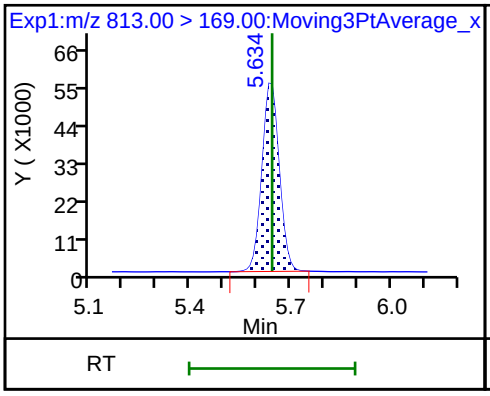
D 63 13C2 PFHxDA



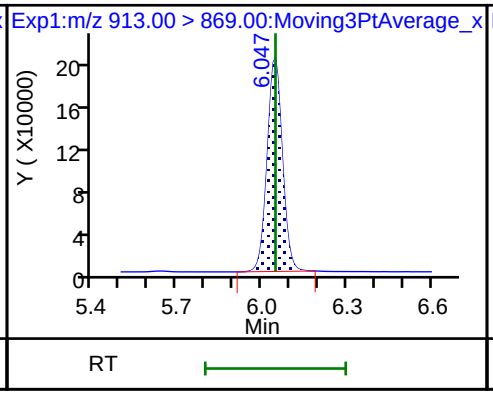
64 Perfluorohexadecanoic acid



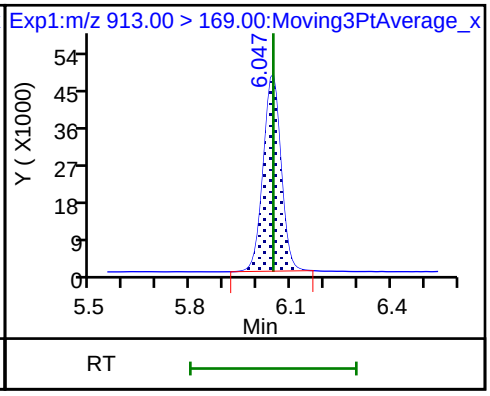
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

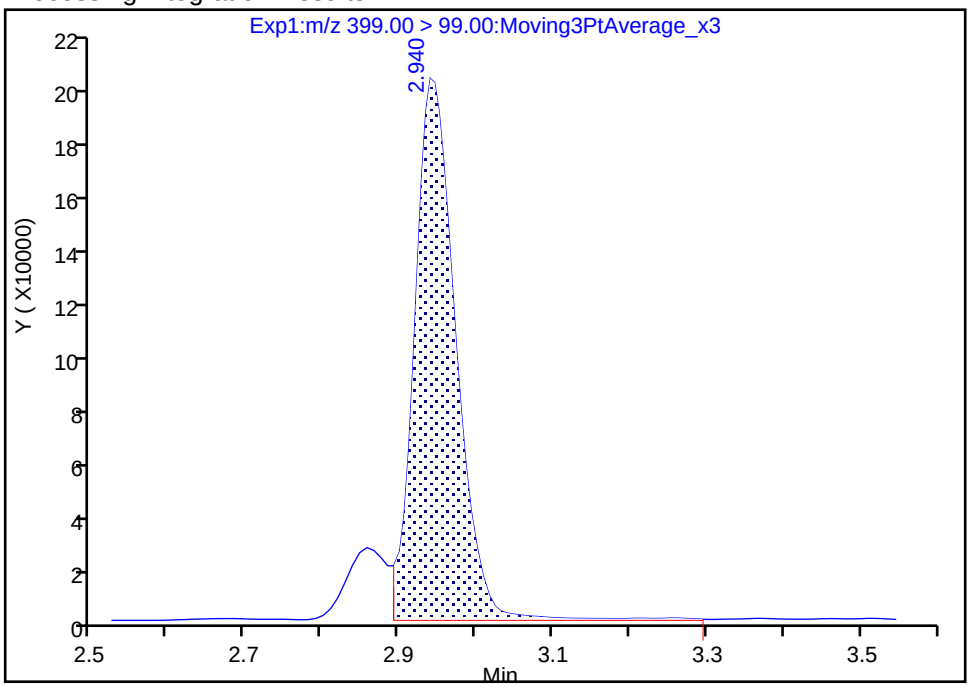
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_041.d				
Injection Date:	11-Sep-2020 15:44:37	Instrument ID:	A9		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	43	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

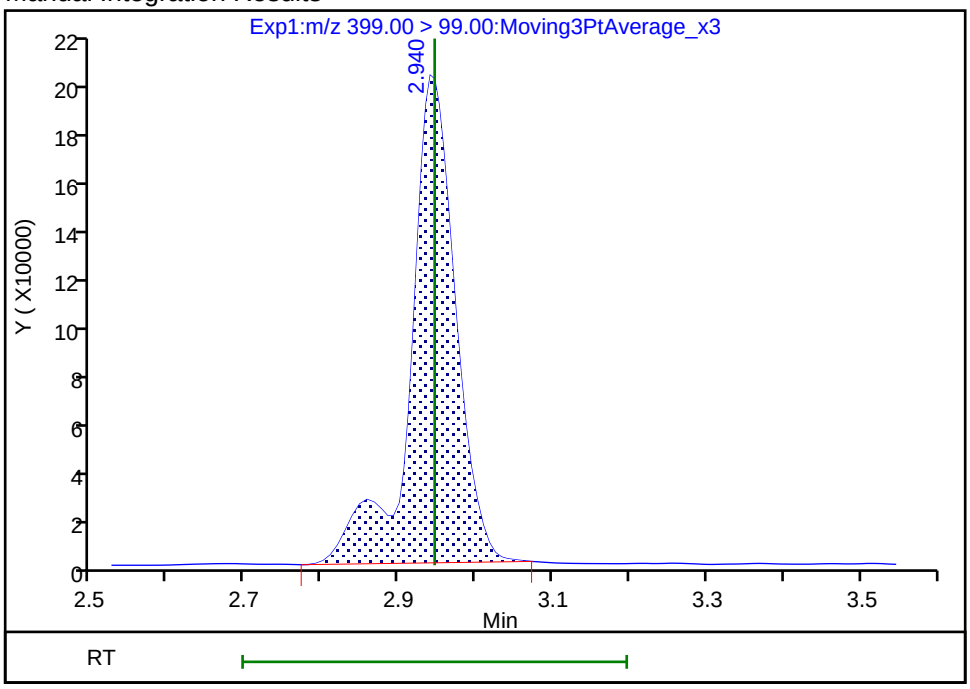
Processing Integration Results

RT: 2.94
Area: 761714
Amount: 0.894636
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 835608
Amount: 0.894636
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:26:50

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

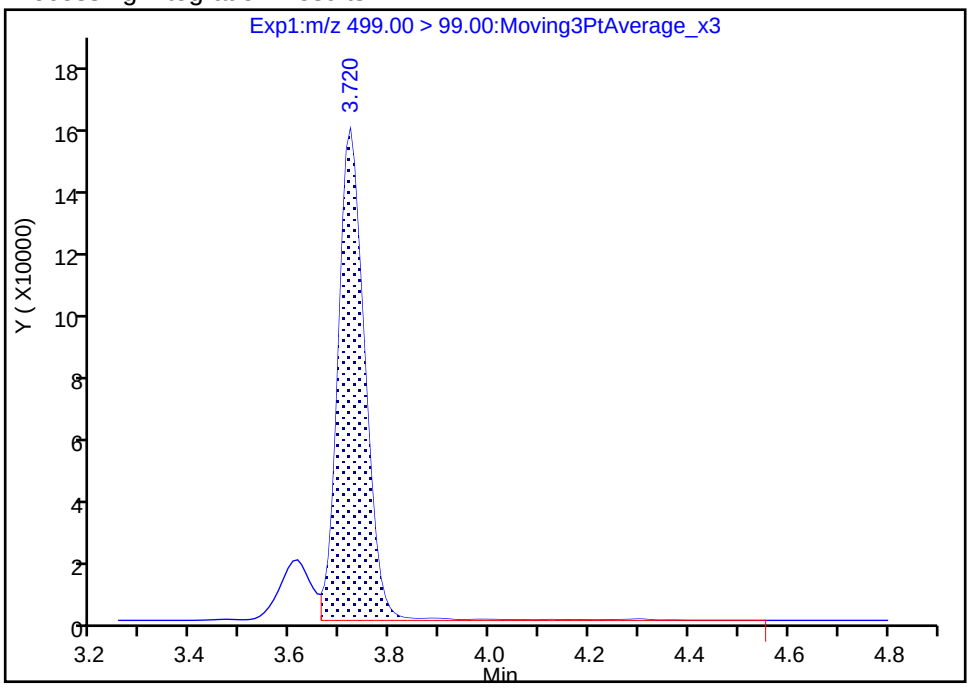
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_041.d				
Injection Date:	11-Sep-2020 15:44:37	Instrument ID:	A9		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	43	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

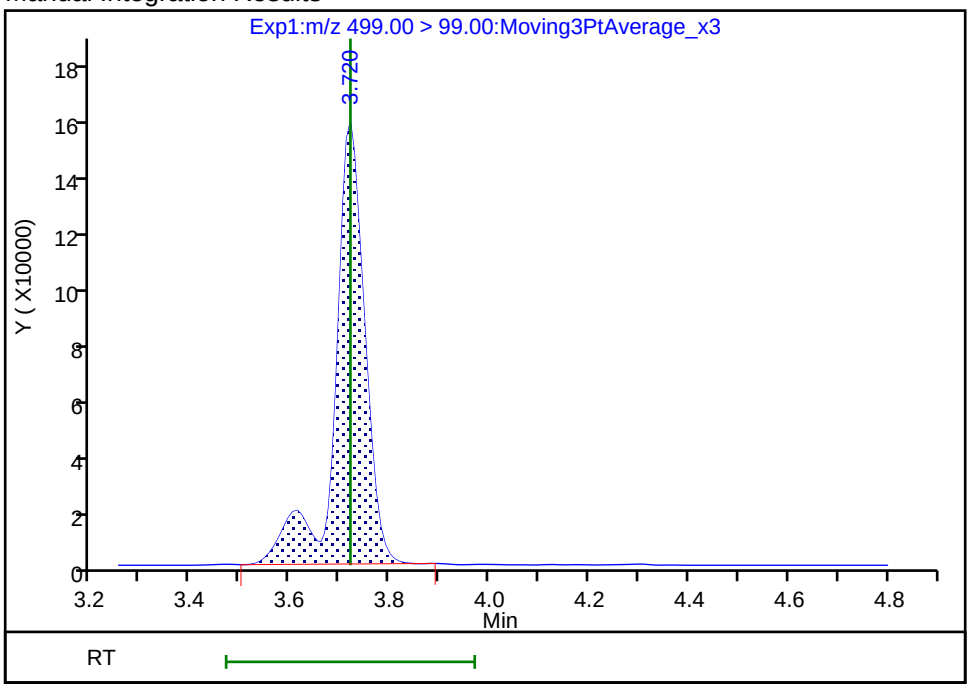
Processing Integration Results

RT: 3.72
Area: 581242
Amount: 1.003128
Amount Units: ng/ml



Manual Integration Results

RT: 3.72
Area: 650156
Amount: 1.003128
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 17:27:02

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-410910/1-A

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_074.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 15:11

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.354	J	2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.273	J	2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.357	J	2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90
27619-97-2	6:2 FTS	2.00	U	20.0	2.00
39108-34-4	8:2 FTS	2.00	U	20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-410910/1-A

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_074.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 15:11

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84		25-150
STL01893	13C5 PFPeA	86		25-150
STL00993	13C2 PFHxA	95		25-150
STL01892	13C4 PFHpA	92		25-150
STL00990	13C4 PFOA	93		25-150
STL00995	13C5 PFNA	95		25-150
STL00996	13C2 PFDA	101		25-150
STL00997	13C2 PFUnA	99		25-150
STL00998	13C2 PFDoA	94		25-150
STL02116	13C2 PFTeDA	93		25-150
STL02337	13C3 PFBS	103		25-150
STL00994	18O2 PFHxS	106		25-150
STL00991	13C4 PFOS	104		25-150
STL01056	13C8 FOSA	90		25-150
STL02118	d3-NMeFOSAA	86		25-150
STL02117	d5-NEtFOSAA	89		25-150
STL02279	M2-6:2 FTS	103		25-150
STL02280	M2-8:2 FTS	115		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Lims ID: MB 320-410910/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Sep-2020 15:11:20 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-410910/1-a DUE 9/22 (WATER)
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:18:59 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1040

First Level Reviewer: sanjumnair Date: 11-Sep-2020 08:18:59
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.549	2.557	-0.008	0.626	15131767	2.09		83.5	8220	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.549	2.557	-0.008	1.000	46543	0.008860			2.1	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.899	2.909	-0.010	0.712	12132401	2.15		86.1	4483	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.899	2.909	-0.010	1.000	44004	0.009095			1.9	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.940	2.940	0.0	1.004	7688	0.001674	Target=2.30		1.8	
298.90 > 99.00	2.930	2.940	-0.010	1.000	2328		3.30(1.15-3.45)		0.8	
D 9 13C3 PFBS										
301.90 > 80.00	2.930	2.940	-0.010	0.719	10572474	2.39		103	5303	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.230	3.238	-0.008	0.793	2525800	2.37		101	1165	
8 4:2 FTS										
327.00 > 307.00	3.223	3.238	-0.015	0.998	1559	0.000634			13.9	
D 11 13C2 PFHxA										
315.00 > 270.00	3.278	3.278	0.0	0.805	13413780	2.38		95.4	5376	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.278	3.288	-0.010	1.000	17767	0.003436	Target=13.35		1.1	
313.00 > 119.00	3.268	3.288	-0.020	0.997	1518		11.70(6.67-20.02)		1.1	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.405	3.405	0.0	0.836	2443659	2.12		84.9	5397	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.681	3.691	-0.010	1.000	19969	0.006814	Target=3.35		8.3	M
399.00 > 99.00	3.681	3.691	-0.010	1.000	6502		3.07(1.67-5.02)		4.7	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 18O2 PFHxS										
403.00 > 84.00	3.681	3.691	-0.010	0.904	5866411	2.51		106	6358	
D 18 13C4 PFHpA										
367.00 > 322.00	3.681	3.691	-0.010	0.904	11045922	2.30		92.0	7110	
21 6:2 FTS										
427.00 > 407.00	4.058	4.058	0.0	1.000	22842	0.0107			34.9	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.058	4.058	0.0	0.996	2196971	2.45		103	1625	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.082	4.082	0.0	1.002	34853	0.008039	Target=3.01		4.8	M
413.00 > 169.00	4.082	4.082	0.0	1.002	11898		2.93(1.50-4.51)		11.1	M
* 23 13C2 PFOA										
415.00 > 370.00	4.074	4.082	-0.008		11427575	2.50			5453	
D 25 13C4 PFOA										
417.00 > 372.00	4.074	4.082	-0.008	1.000	10621661	2.32		92.9	8318	
D 27 13C4 PFOS										
503.00 > 80.00	4.438	4.446	-0.008	1.089	3940732	2.49		104	1983	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.438	4.446	-0.008	1.000	8656	0.005072	Target=4.54		4.7	M
499.00 > 99.00	4.454	4.446	0.008	1.004	3556		2.43(2.27-6.82)		3.7	
D 30 13C5 PFNA										
468.00 > 423.00	4.454	4.462	-0.008	1.093	8758651	2.38		95.1	8086	
D 33 13C8 FOSA										
506.00 > 78.00	4.777	4.786	-0.009	1.173	5738418	2.25		89.8	5449	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.786	4.786	0.0	1.002	19087	0.008937			77.9	
D 39 13C2 PFDA										
515.00 > 470.00	4.811	4.820	-0.009	1.181	9004767	2.52		101	11997	
36 8:2 FTS										
527.00 > 507.00	4.811	4.820	-0.009	1.000	2532	0.000961			39.0	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.811	4.820	-0.009	1.181	3556785	2.76		115	2201	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.977	4.978	-0.001	1.222	5164535	2.15		86.0	2286	
D 43 13C2 PFUnA										
565.00 > 520.00	5.138	5.139	-0.001	1.261	8750810	2.47		98.7	7847	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.138	5.148	-0.010	1.261	5664421	2.23		89.2	3268	
46 NEtFOSA										
584.00 > 419.00	5.157	5.157	0.0	1.004	9547	0.006235			30.5	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.238	5.240	-0.002	1.286	2430234	3.84		30.7	1141	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.258	5.259	-0.001	1.291	1578658	1.76		70.3	36.8	
50 NMeFOSA										
512.00 > 169.00	5.279	5.270	0.009	1.004	1735	0.002860			4.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
51 11ClFOS										
631.00 > 451.00	5.268	5.280	-0.012	1.187	4666	0.000690			17.6	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.415	5.416	-0.001	1.329	2132061	2.74		22.0	1087	
D 56 13C2 PFDoA										
615.00 > 570.00	5.426	5.437	-0.011	1.332	8232818	2.35		94.2	6972	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.426	5.437	-0.011	1.000	9667	0.002871	Target=8.28		3.8	
613.00 > 169.00	5.437	5.437	0.0	1.002	1151		8.40(4.14-12.41)		3.9	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.437	5.437	0.0	1.334	1058181	1.15		46.0	184	
58 10:2 FTS										
627.00 > 607.00	5.447	5.459	-0.012	1.132	1620	0.000542			10.8	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.948	5.948	0.0	1.460	6692824	2.32		92.8	6336	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.376	6.377	-0.001	1.565	4642443	2.20		88.0	6150	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.376	6.386	-0.010	1.000	40537	0.001024	Target=9.97		39.4	
813.00 > 169.00	6.376	6.386	-0.010	1.000	4000		10.13(4.98-14.95)		34.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:18:59 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d

Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18

Lims ID: MB 320-410910/1-A

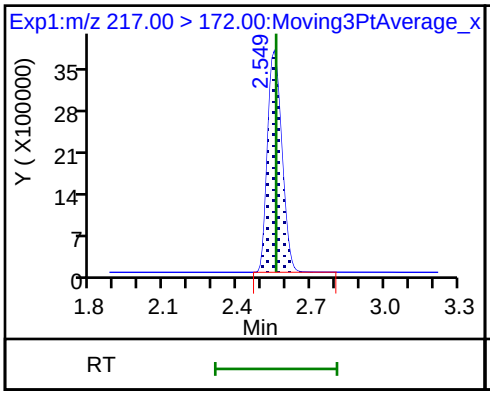
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2

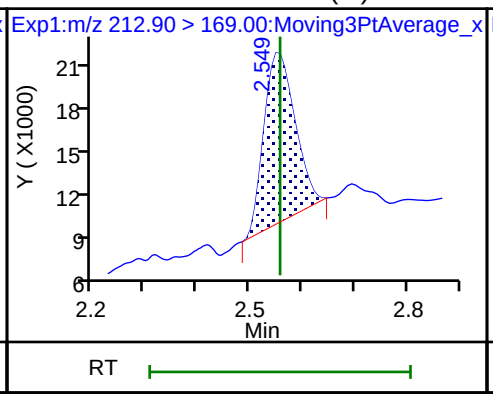
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

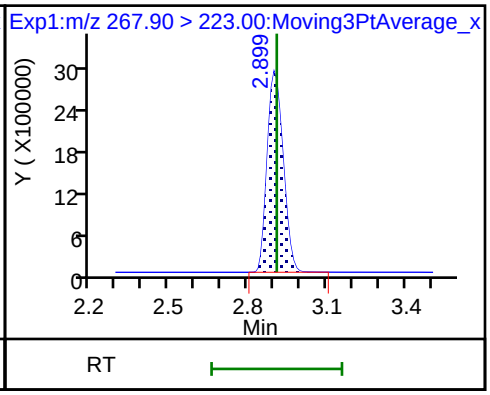
D 1 13C4 PFBA



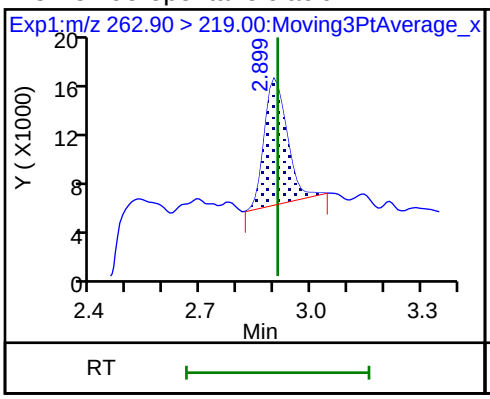
2 Perfluorobutanoic acid (M)



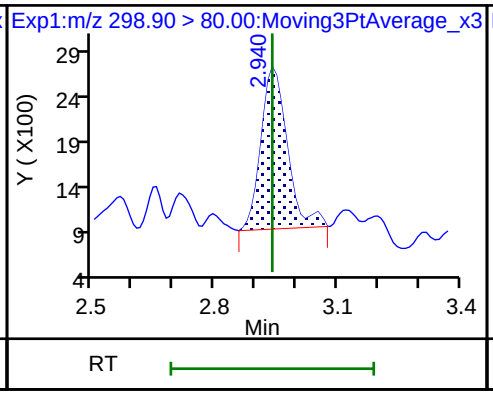
D 4 13C5 PFPeA



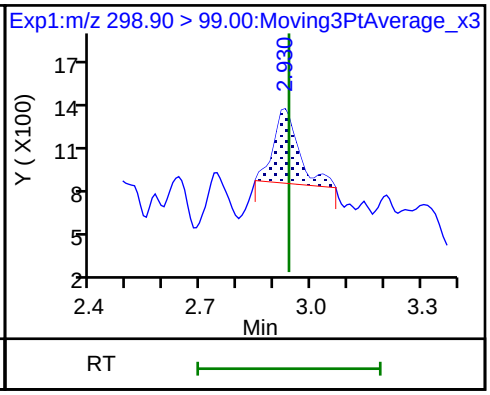
5 Perfluoropentanoic acid



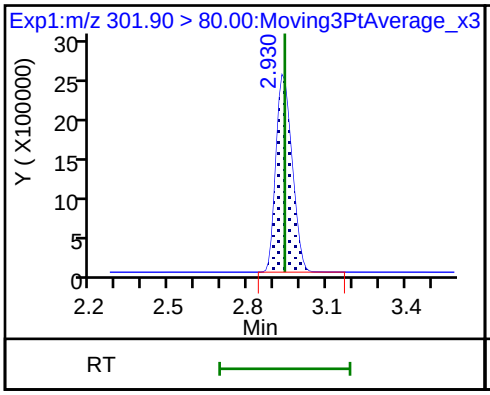
6 Perfluorobutanesulfonic acid



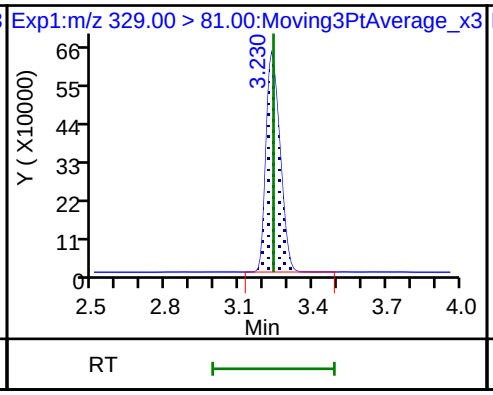
6 Perfluorobutanesulfonic acid



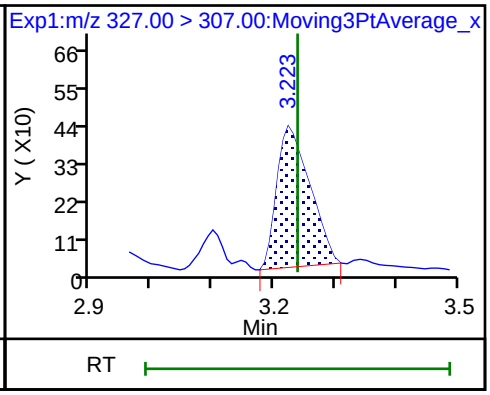
D 9 13C3 PFBS



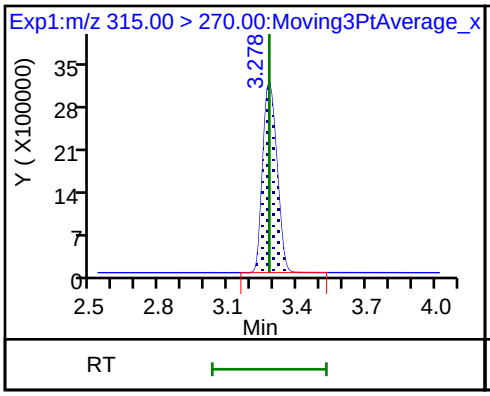
D 7 M2-4:2 FTS



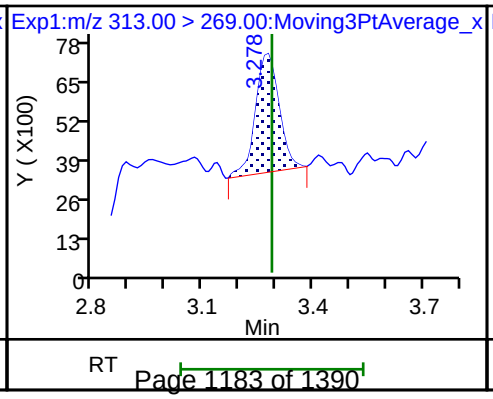
8 4:2 FTS



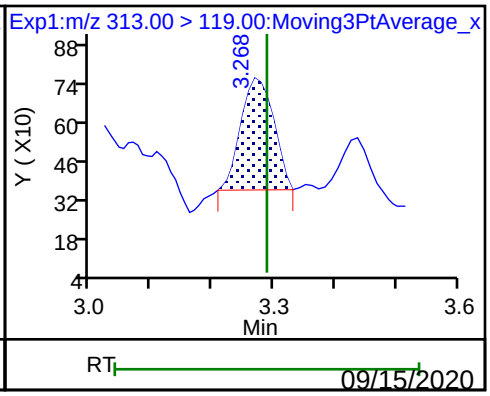
D 11 13C2 PFHxA



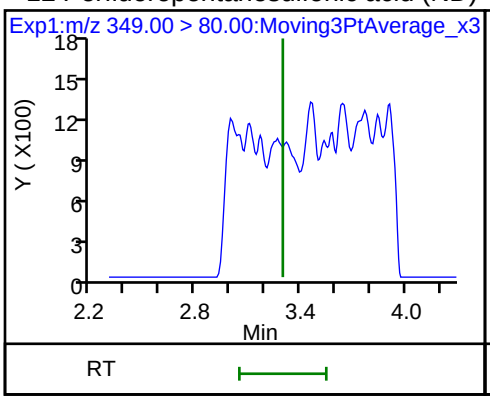
10 Perfluorohexanoic acid



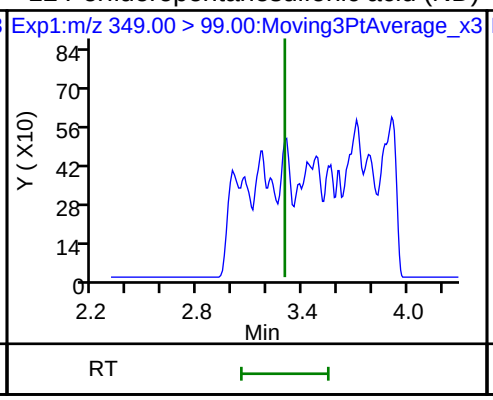
10 Perfluorohexanoic acid



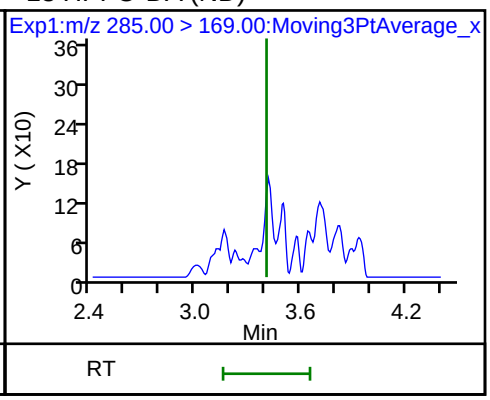
12 Perfluoropentanesulfonic acid (ND)



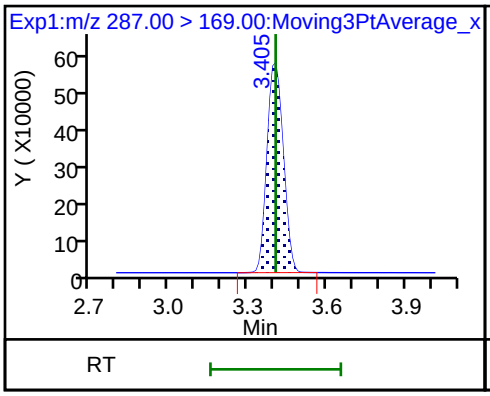
12 Perfluoropentanesulfonic acid (ND)



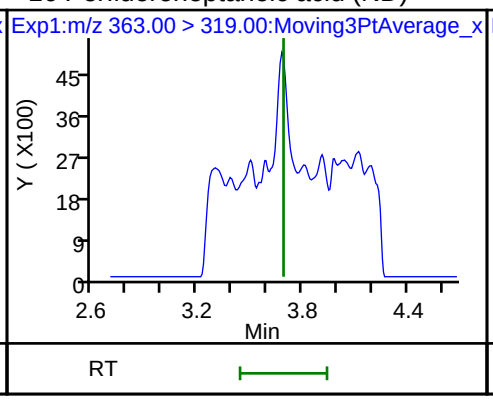
13 HPFO-DA (ND)



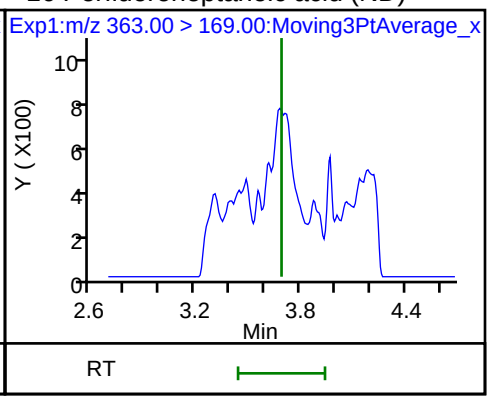
D 14 13C3 HFPO-DA



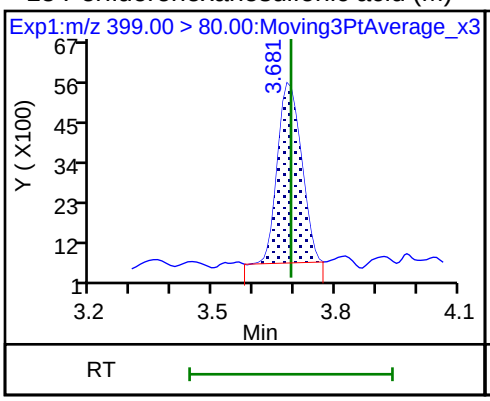
16 Perfluoroheptanoic acid (ND)



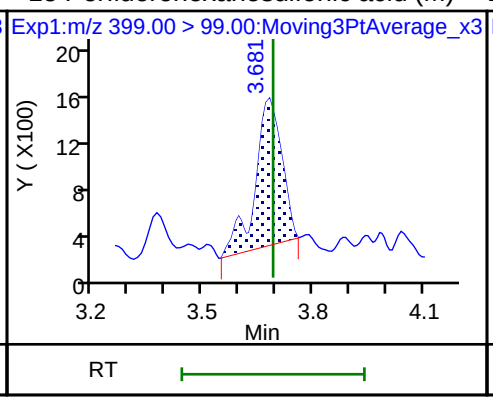
16 Perfluoroheptanoic acid (ND)



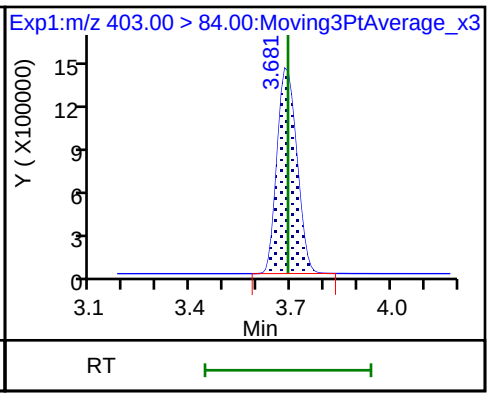
15 Perfluorohexanesulfonic acid (M)



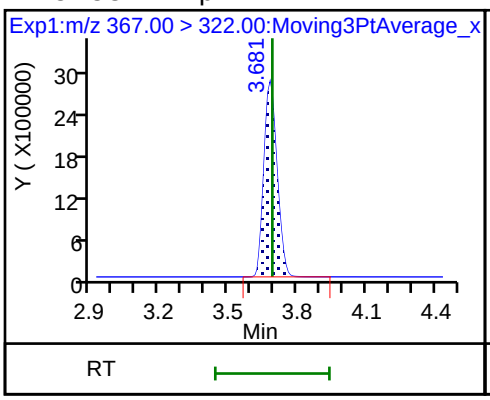
15 Perfluorohexanesulfonic acid (M)



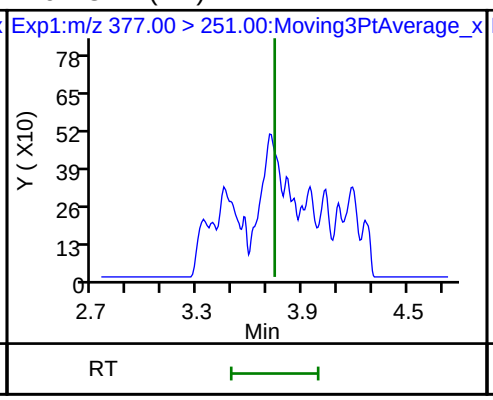
D 17 18O2 PFHxS



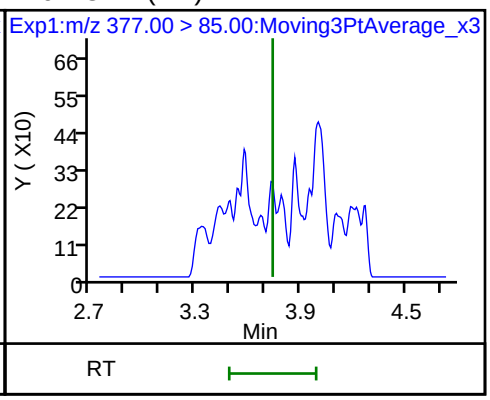
D 18 13C4 PFHpA



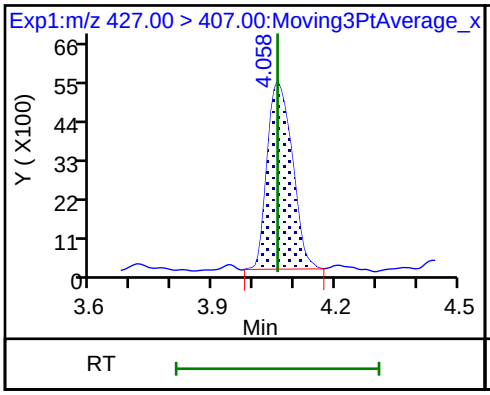
19 DONA (ND)



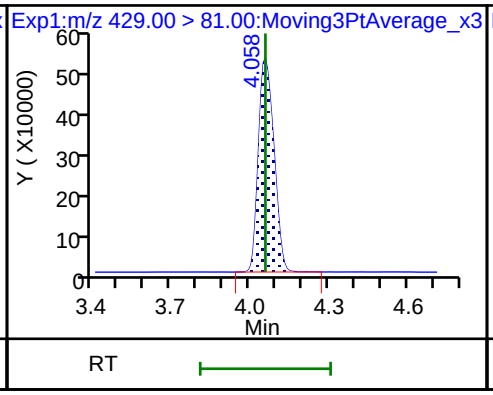
19 DONA (ND)



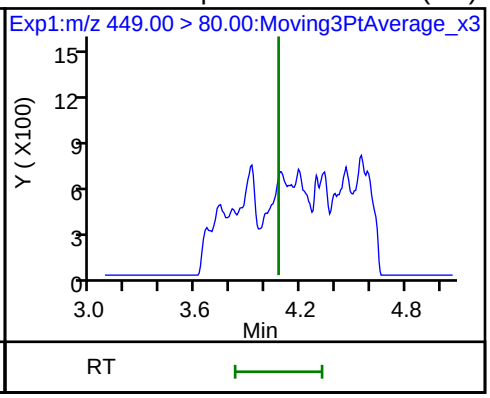
21 6:2 FTS



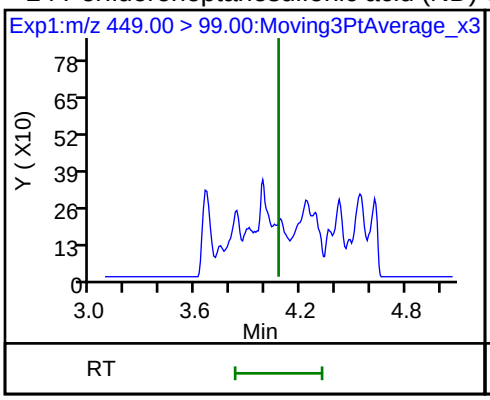
D 20 M2-6:2 FTS



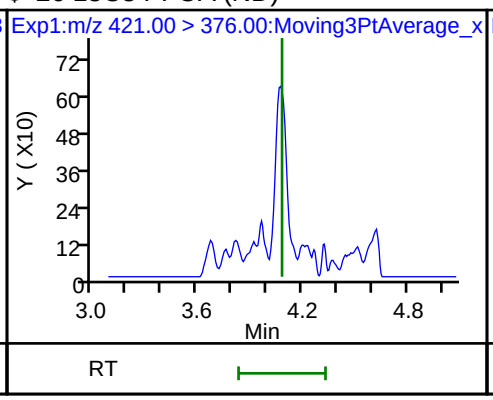
24 Perfluoroheptanesulfonic acid (ND)



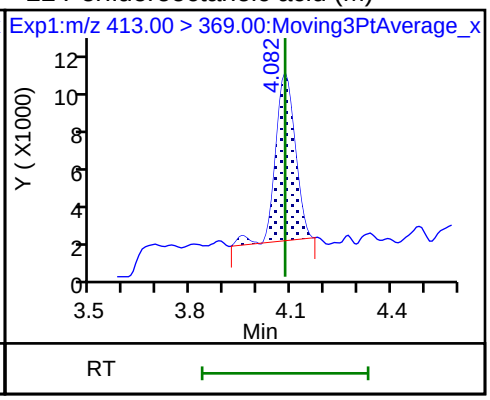
24 Perfluoroheptanesulfonic acid (ND)



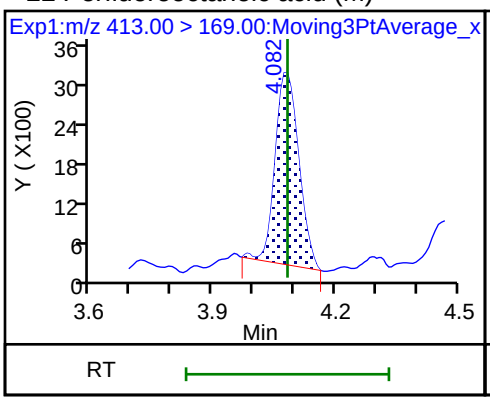
$ 26 13C8 PFOA (ND)



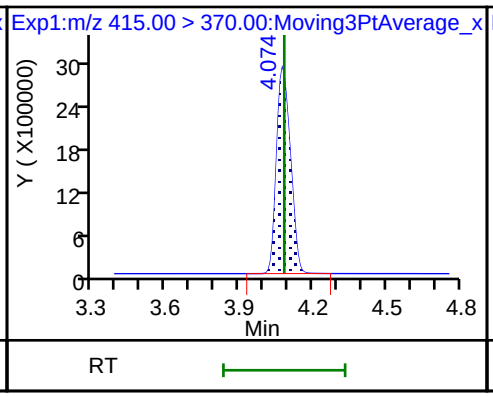
22 Perfluorooctanoic acid (M)



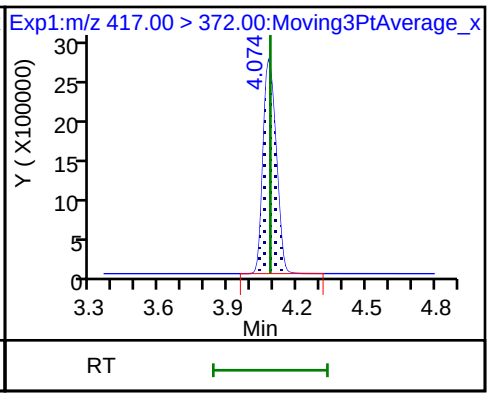
22 Perfluorooctanoic acid (M)



* 23 13C2 PFOA



D 25 13C4 PFOA



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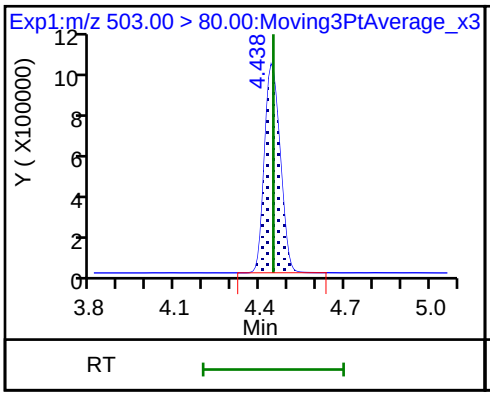
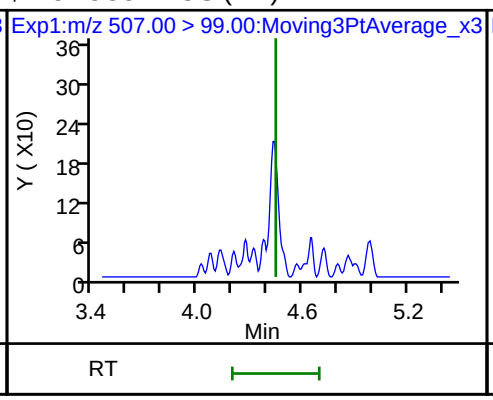
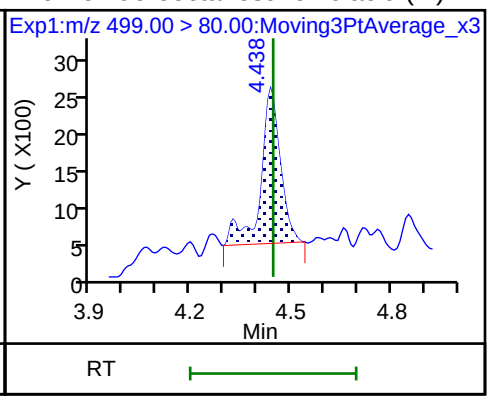


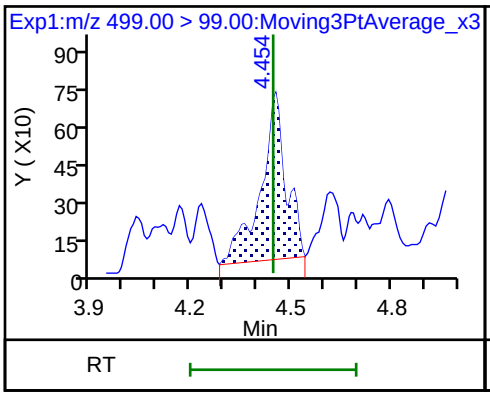
$ 28 13C8 PFOS (ND)



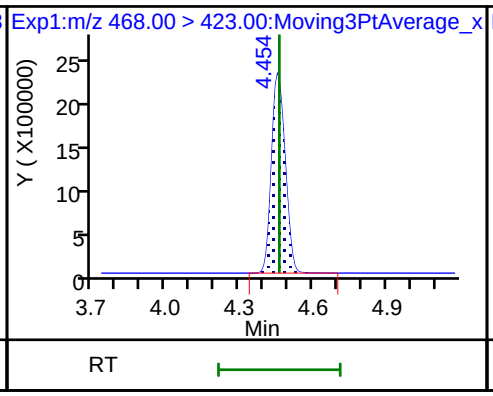
29 Perfluorooctanesulfonic acid (M)



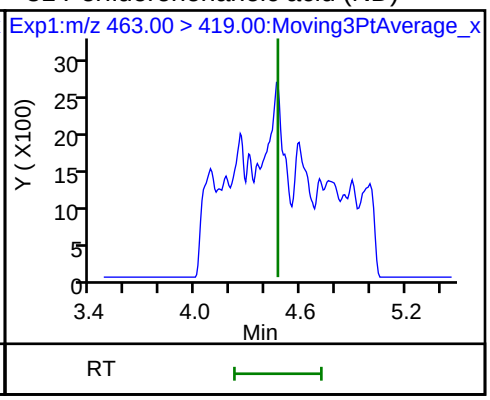
29 Perfluorooctanesulfonic acid



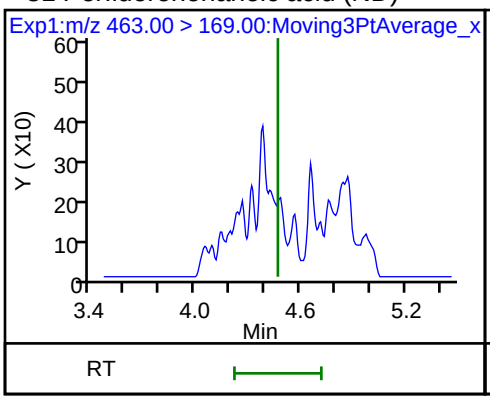
D 30 13C5 PFNA



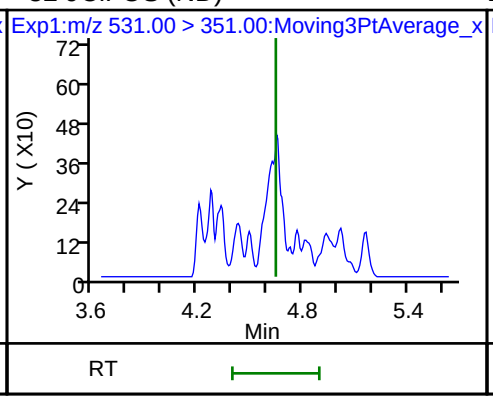
31 Perfluorononanoic acid (ND)



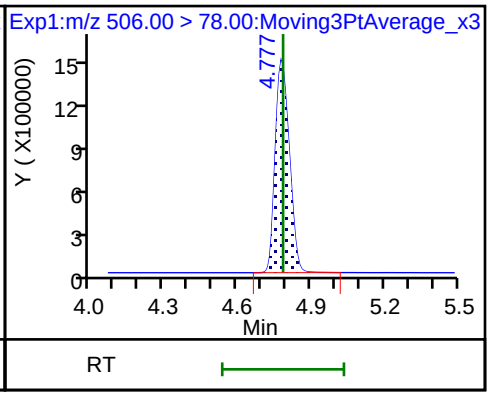
31 Perfluorononanoic acid (ND)



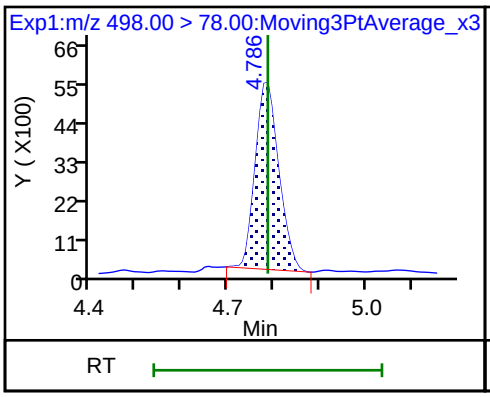
32 9ClFOS (ND)



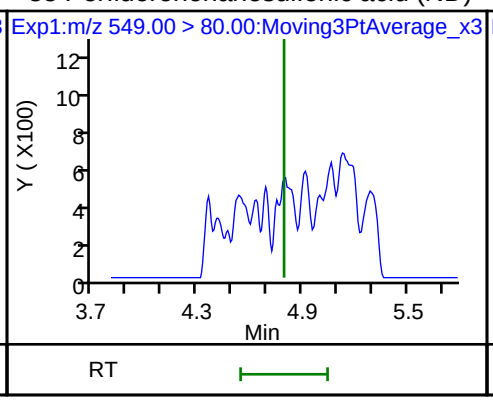
D 33 13C8 FOSA



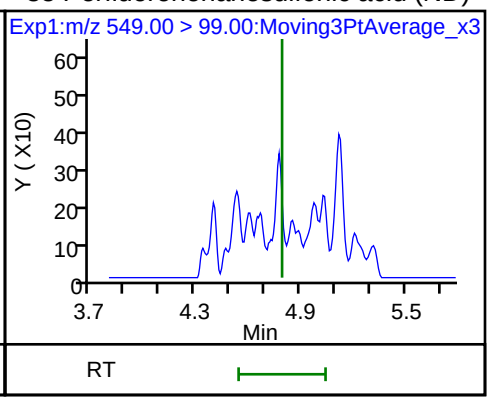
34 Perfluorooctanesulfonamide



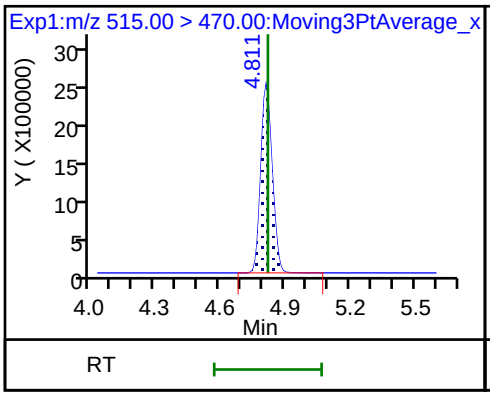
35 Perfluorononanesulfonic acid (ND)



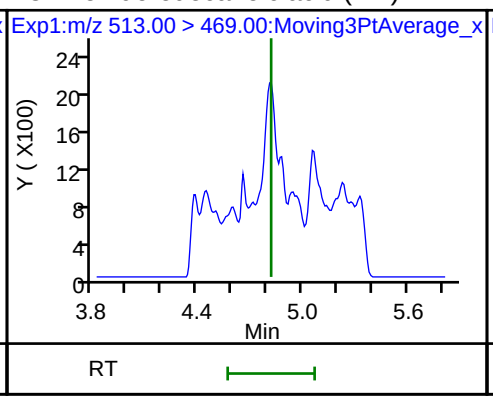
35 Perfluorononanesulfonic acid (ND)



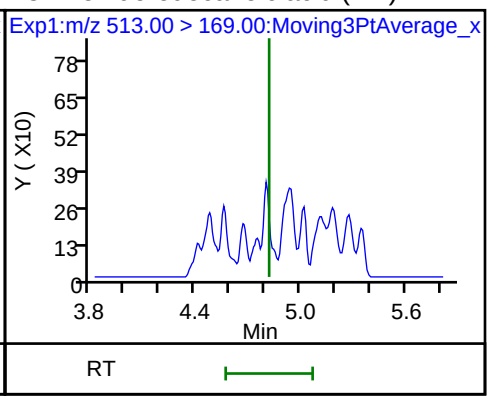
D 39 13C2 PFDA



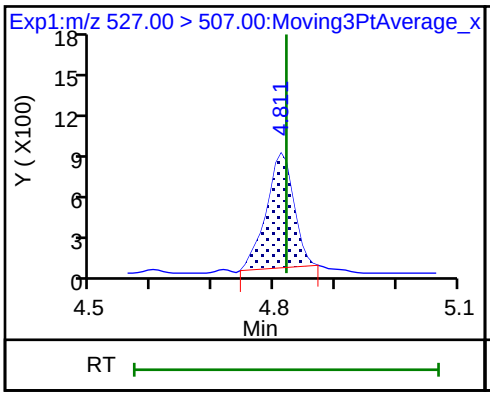
37 Perfluorodecanoic acid (ND)



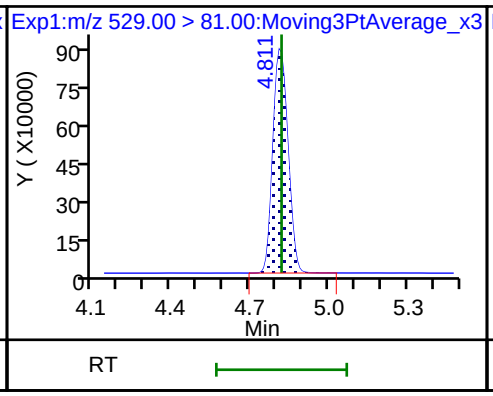
37 Perfluorodecanoic acid (ND)



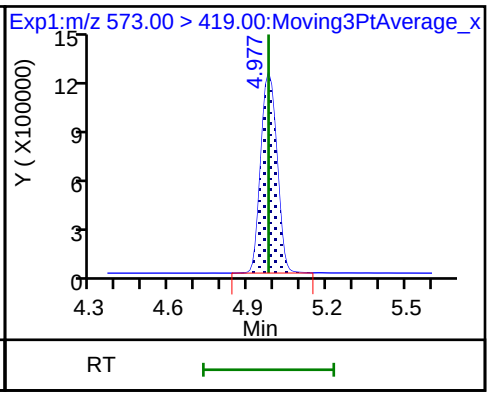
36 8:2 FTS



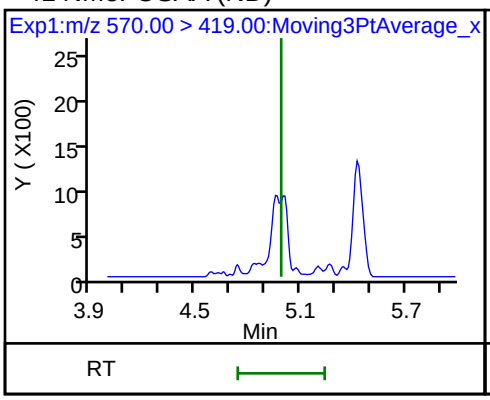
D 38 M2-8:2 FTS



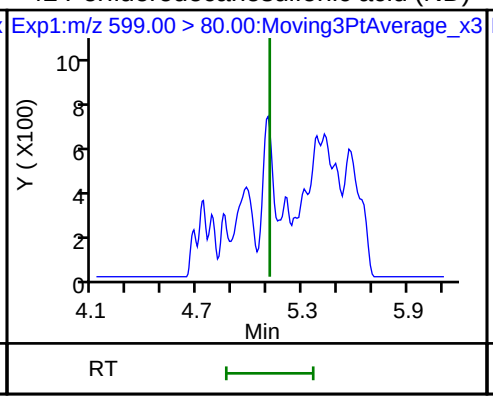
D 40 d3-NMeFOSAA



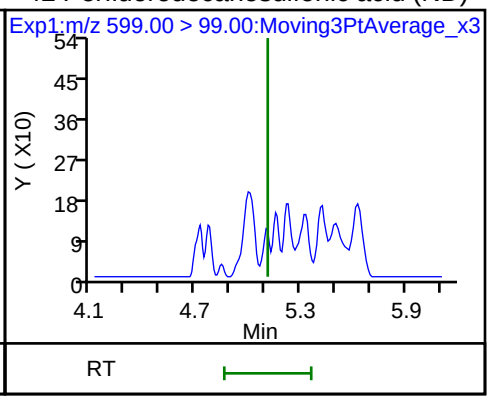
41 NMeFOSAA (ND)



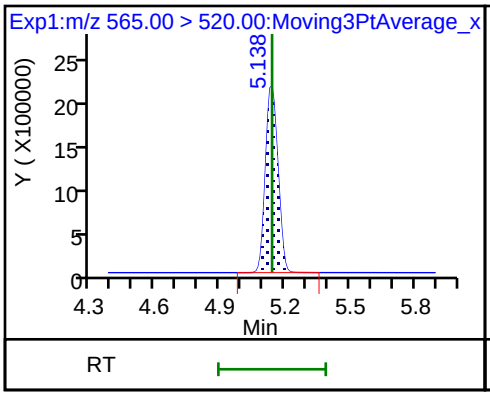
42 Perfluorodecanesulfonic acid (ND)



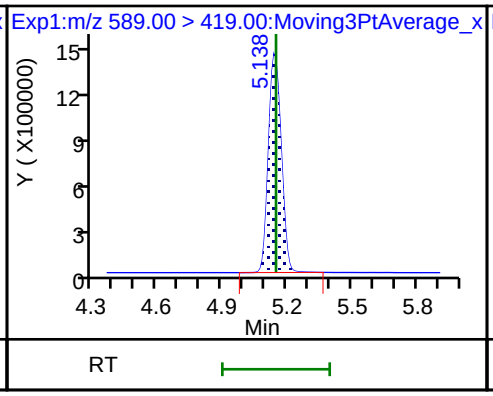
42 Perfluorodecanesulfonic acid (ND)



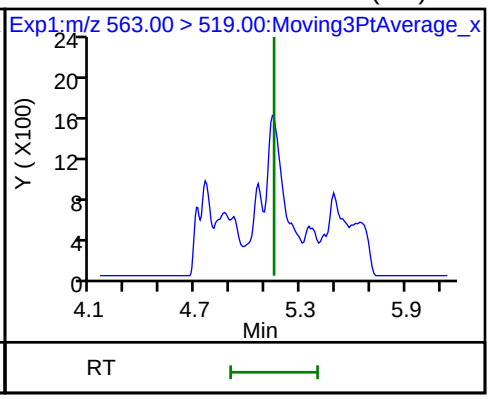
D 43 13C2 PFUnA



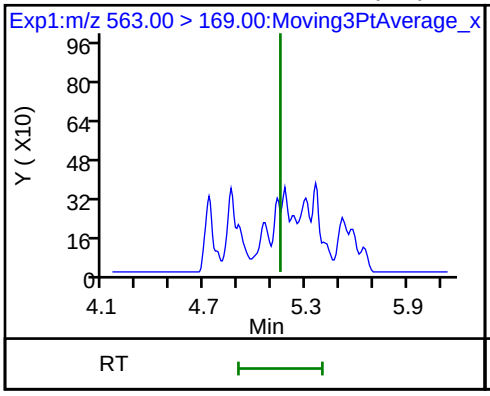
D 44 d5-NEtFOSAA



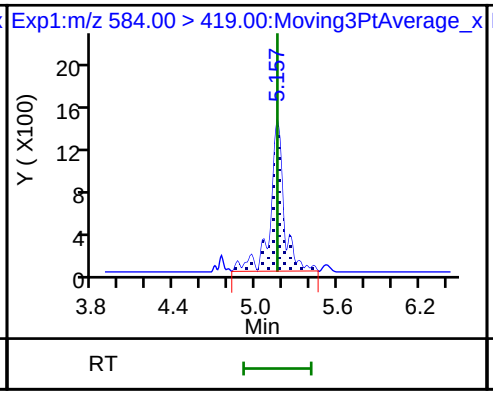
45 Perfluoroundecanoic acid (ND)



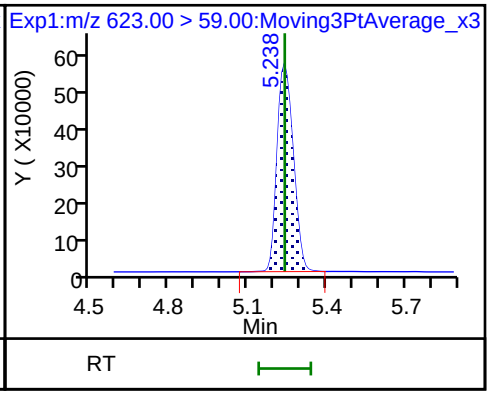
45 Perfluoroundecanoic acid (ND)



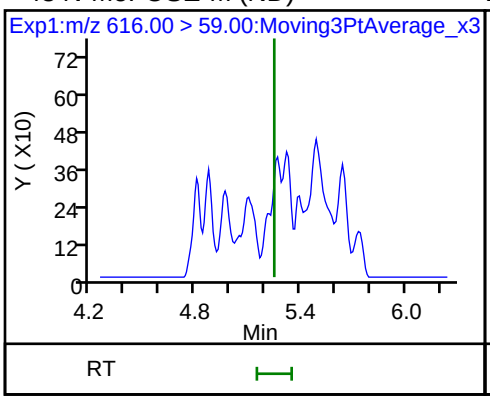
46 NEtFOSA



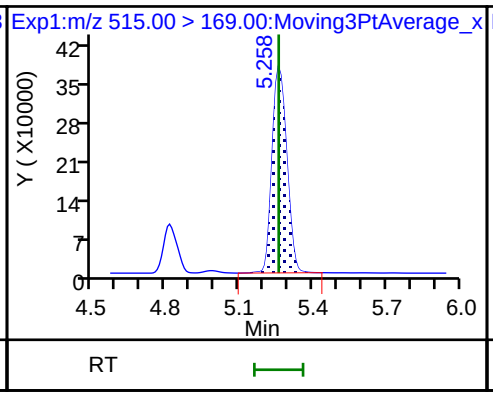
D 47 d7-N-MeFOSE-M



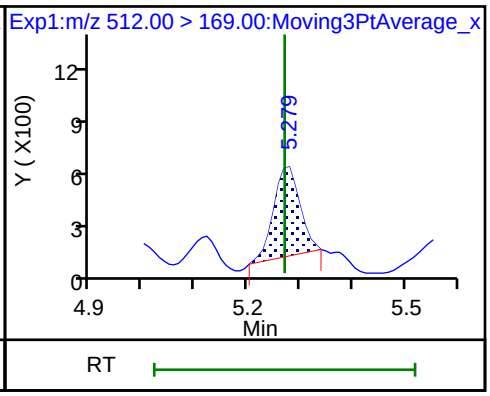
48 N-MeFOSE-M (ND)



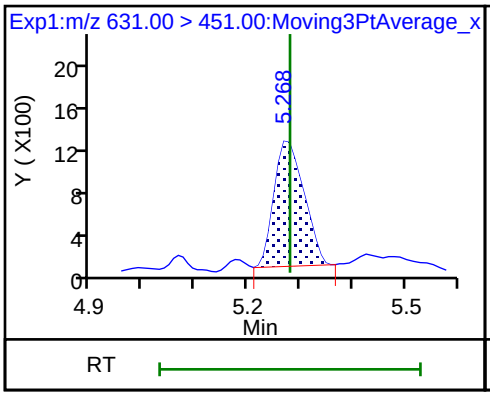
D 49 d-N-MeFOSA-M



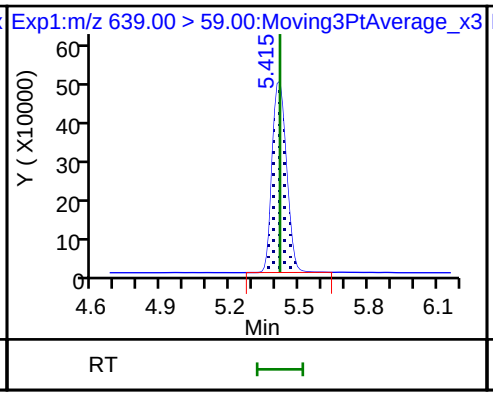
50 NMeFOSA



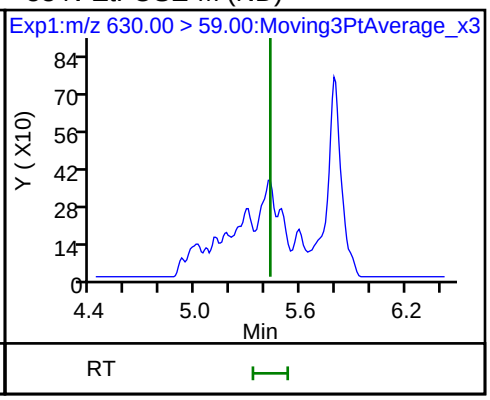
51 11ClFOS



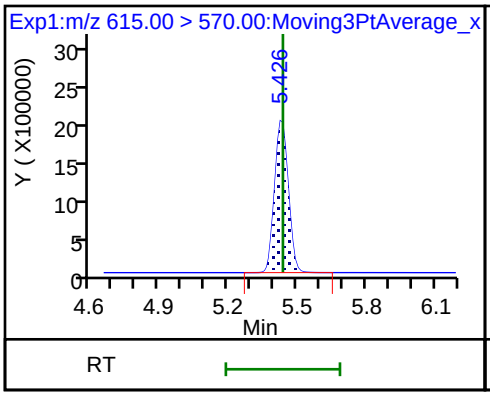
D 52 d9-N-EtFOSE-M



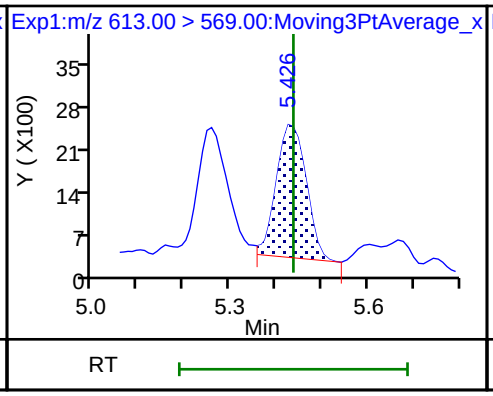
53 N-EtFOSE-M (ND)



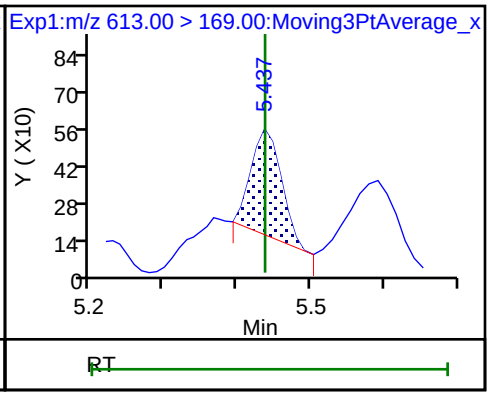
D 56 13C2 PFDoA



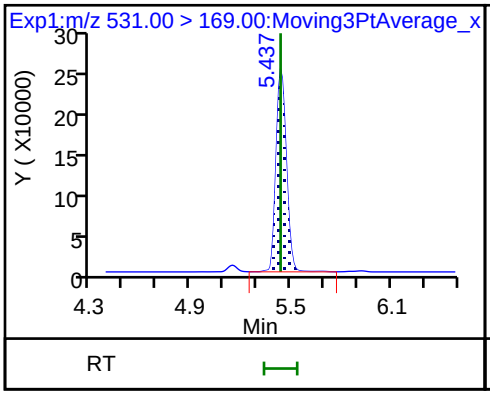
57 Perfluorododecanoic acid



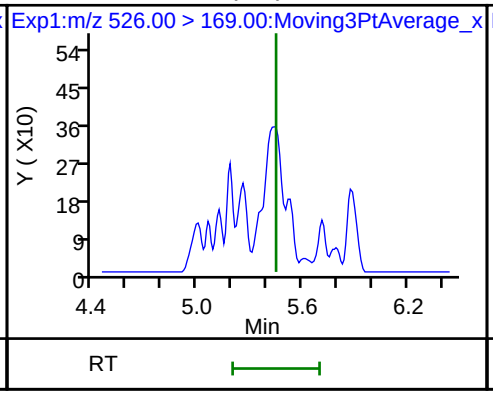
57 Perfluorododecanoic acid



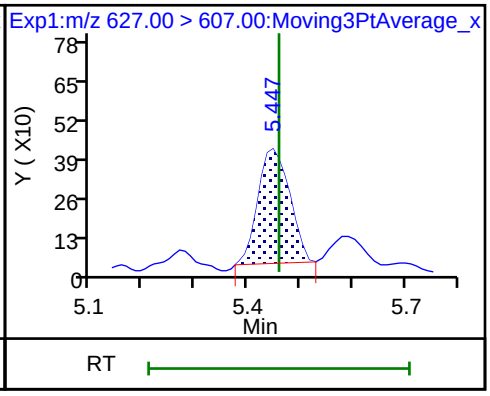
D 54 d-N-EtFOSA-M



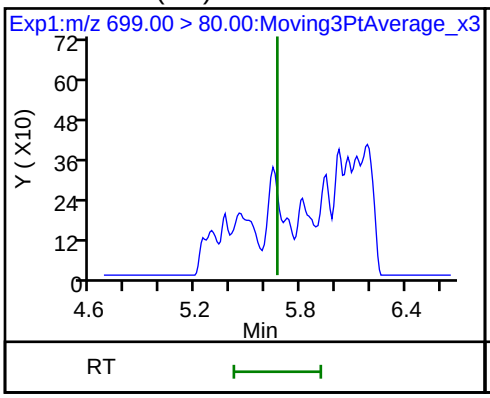
55 N-EtFOSA-M (ND)



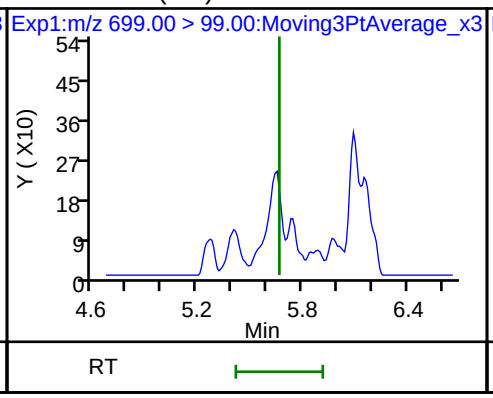
58 10:2 FTS



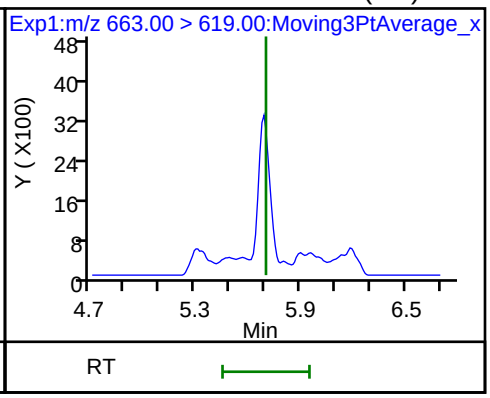
59 PFDoS (ND)



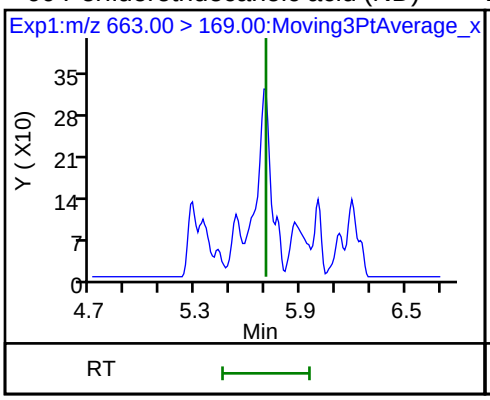
59 PFDoS (ND)



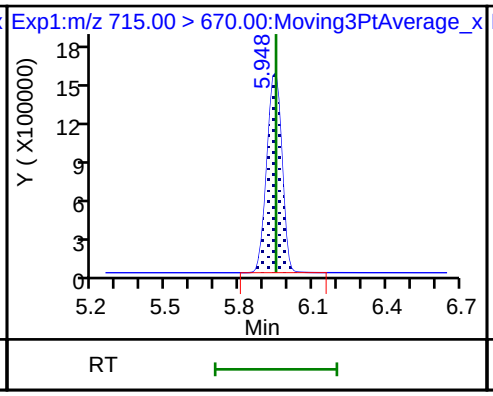
60 Perfluorotridecanoic acid (ND)



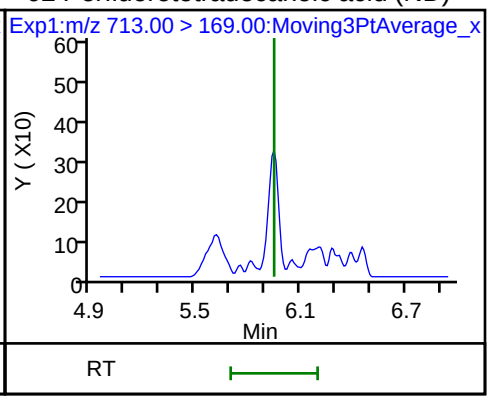
60 Perfluorotridecanoic acid (ND)



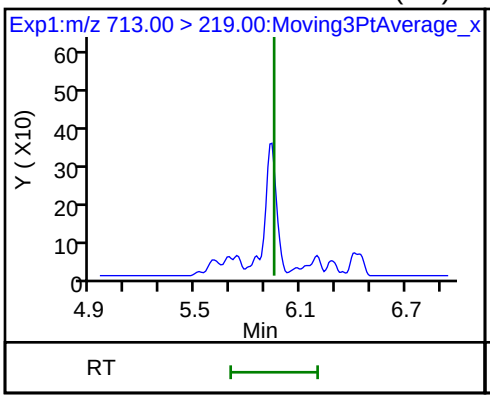
D 61 13C2 PFTeDA



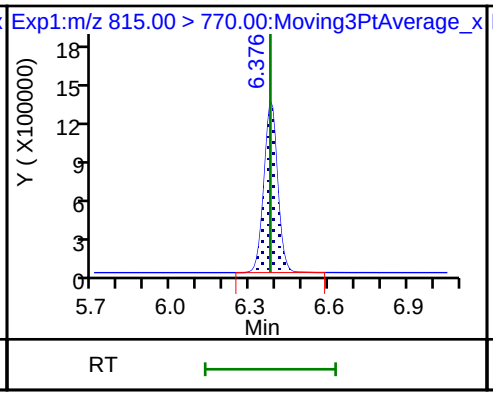
62 Perfluorotetradecanoic acid (ND)



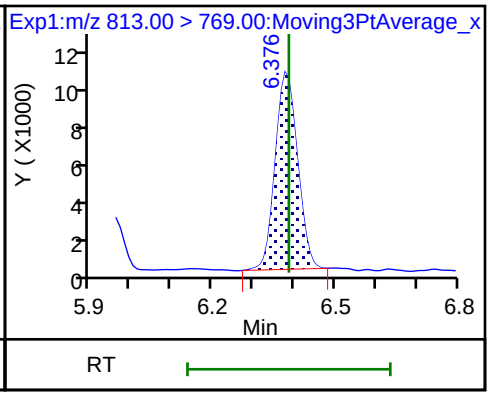
62 Perfluorotetradecanoic acid (ND)



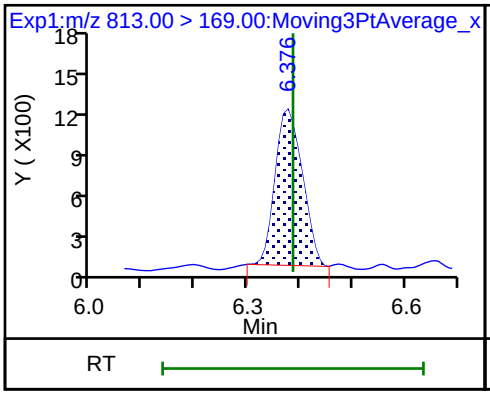
D 64 13C2 PFHxDA



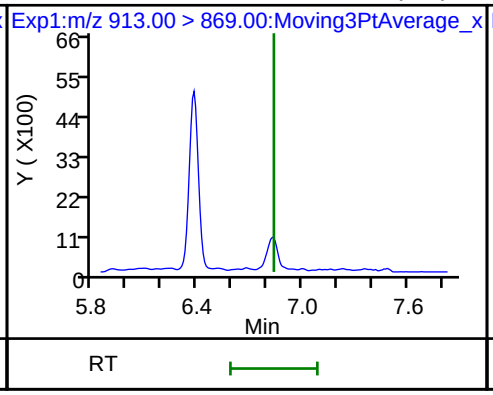
63 Perfluorohexadecanoic acid



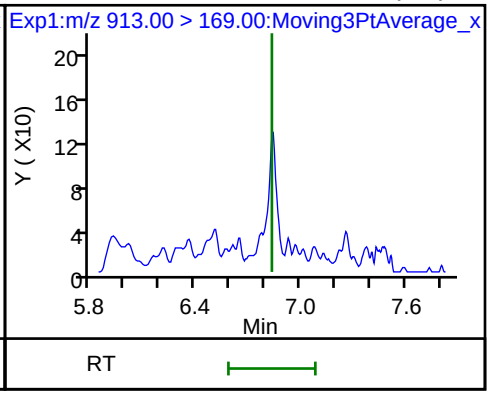
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Sacramento

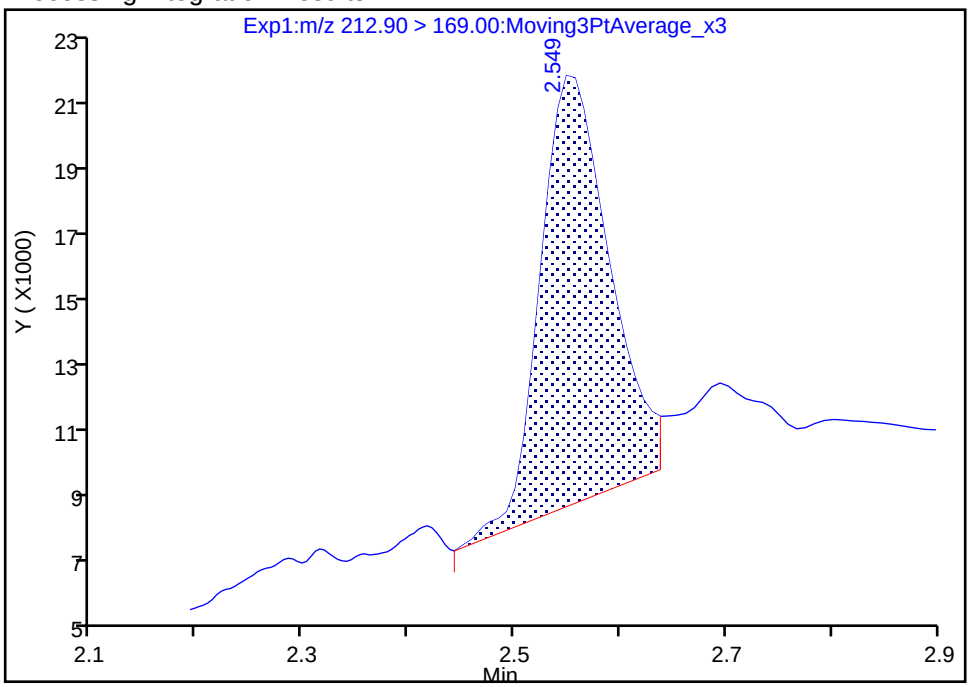
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18
Lims ID: MB 320-410910/1-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

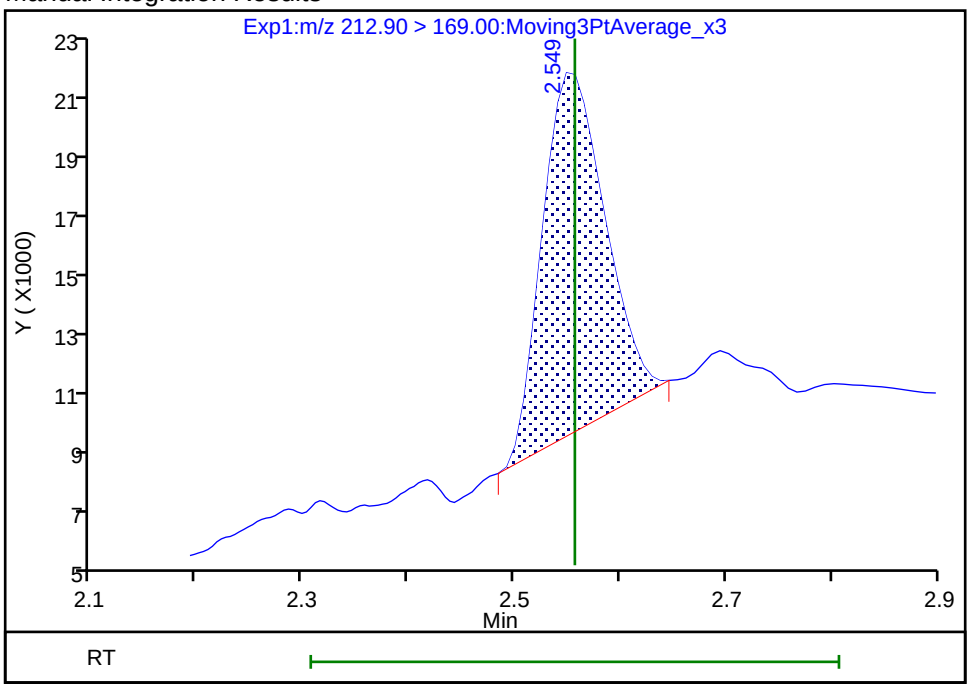
Processing Integration Results

RT: 2.55
Area: 55352
Amount: 0.010537
Amount Units: ng/ml



Manual Integration Results

RT: 2.55
Area: 46543
Amount: 0.008860
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:06:45
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

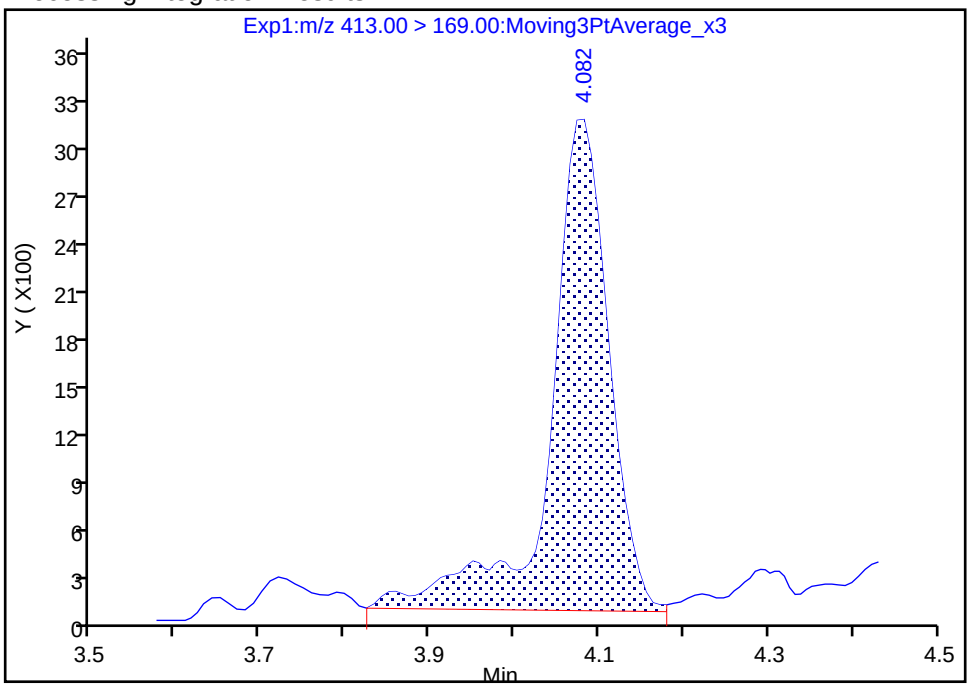
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18
Lims ID: MB 320-410910/1-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

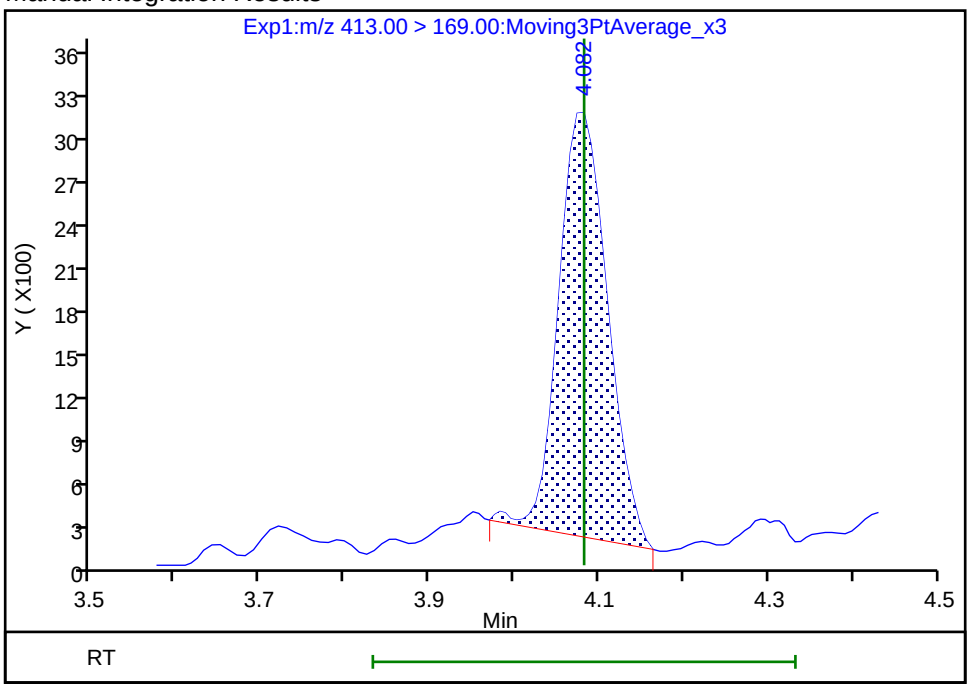
Processing Integration Results

RT: 4.08
Area: 15054
Amount: 0.013015
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 11898
Amount: 0.008039
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:07:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

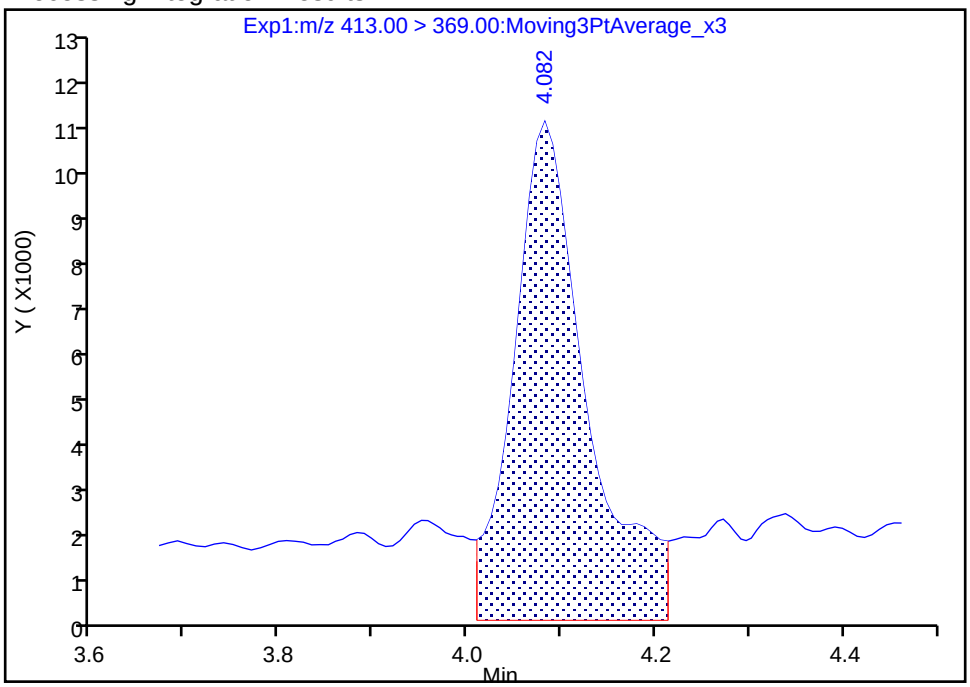
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18
Lims ID: MB 320-410910/1-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

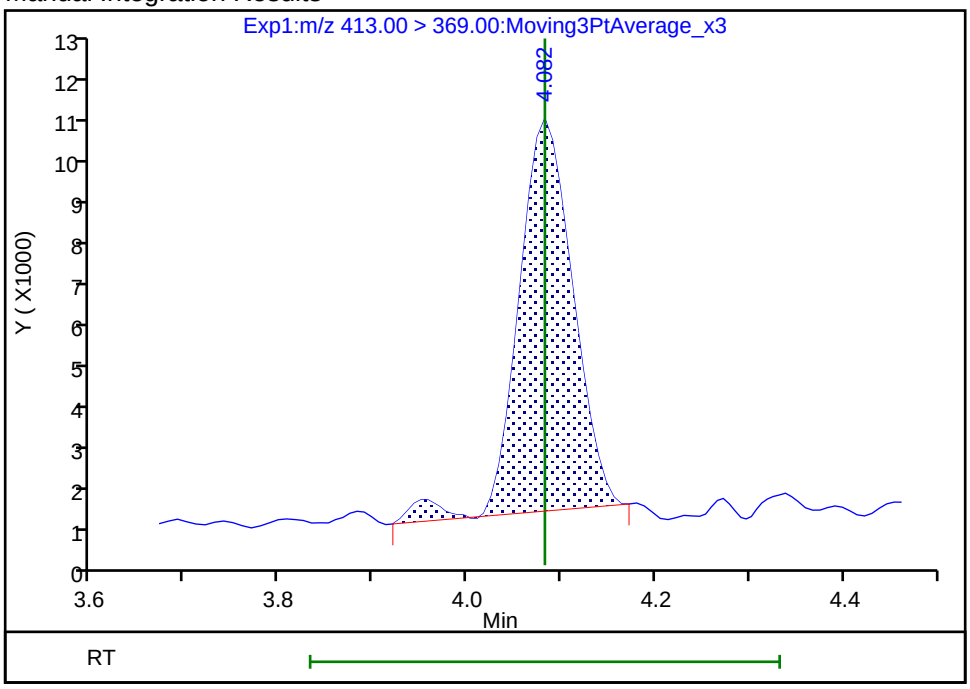
Processing Integration Results

RT: 4.08
Area: 56426
Amount: 0.013015
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 34853
Amount: 0.008039
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:07:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

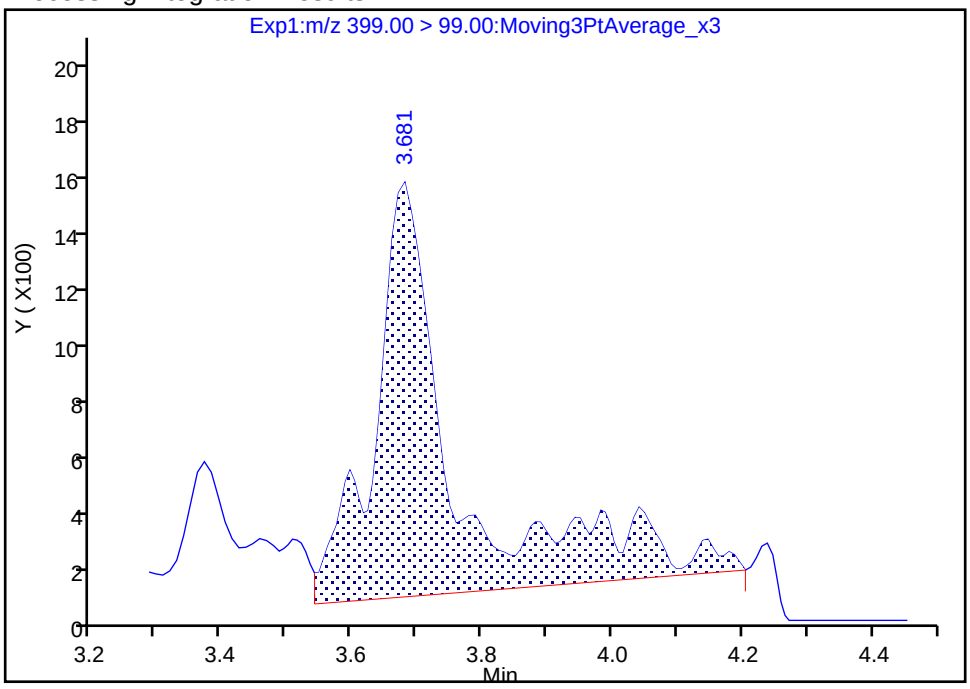
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18
Lims ID: MB 320-410910/1-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

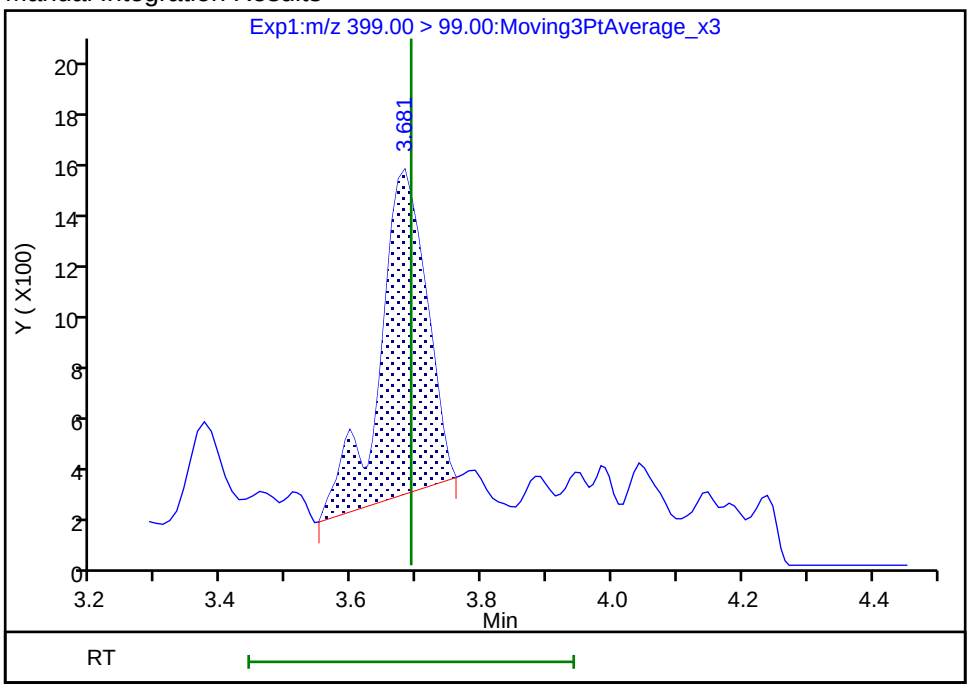
Processing Integration Results

RT: 3.68
Area: 12944
Amount: 0.008909
Amount Units: ng/ml



Manual Integration Results

RT: 3.68
Area: 6502
Amount: 0.006814
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:07:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

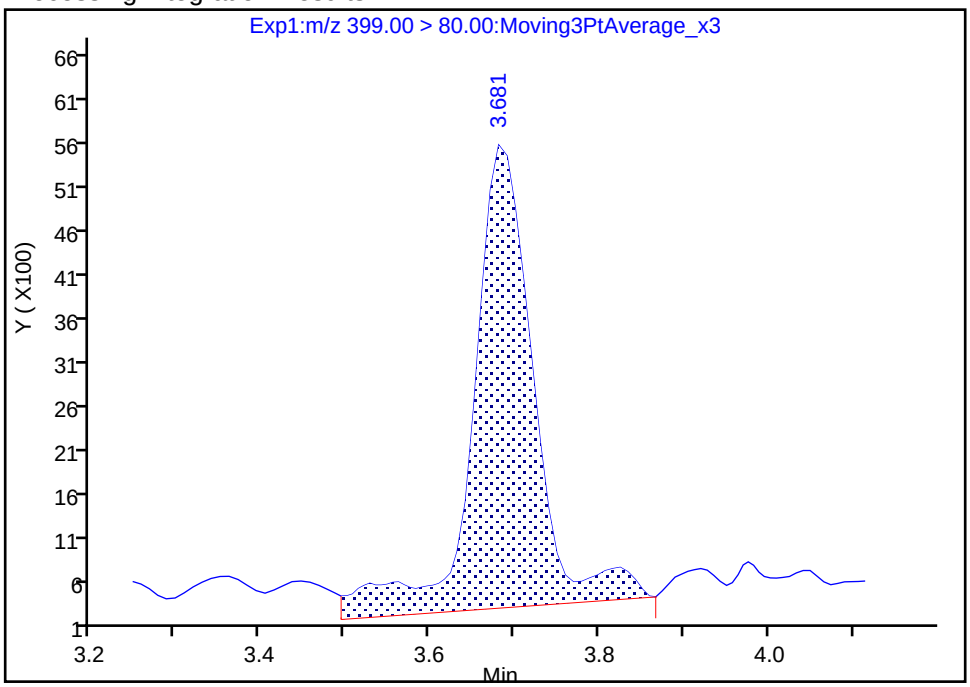
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18
Lims ID: MB 320-410910/1-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

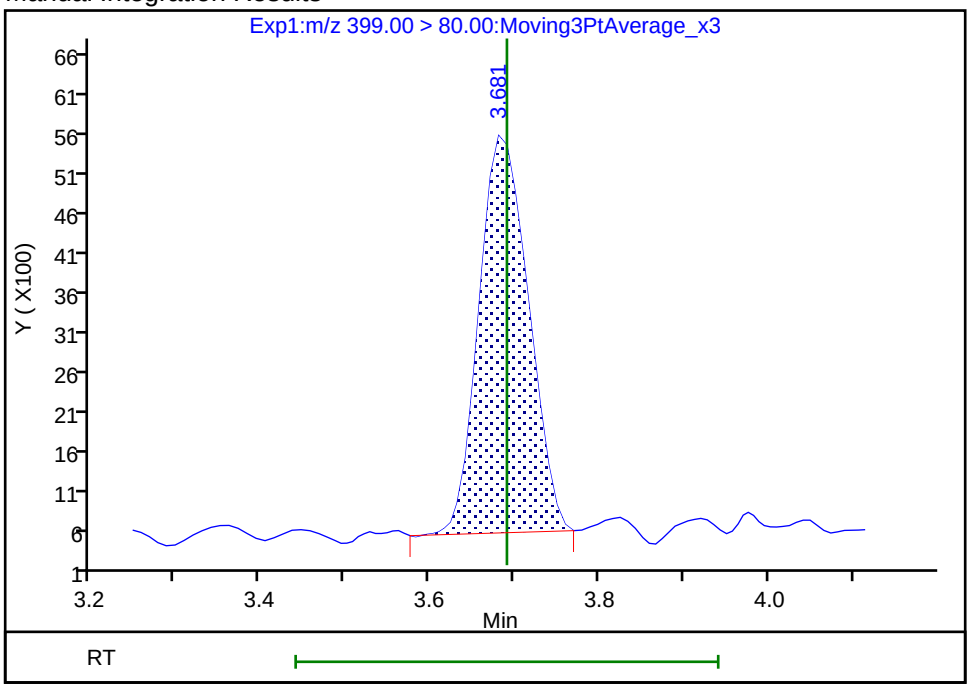
Processing Integration Results

RT: 3.68
Area: 26109
Amount: 0.008909
Amount Units: ng/ml



Manual Integration Results

RT: 3.68
Area: 19969
Amount: 0.006814
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:07:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

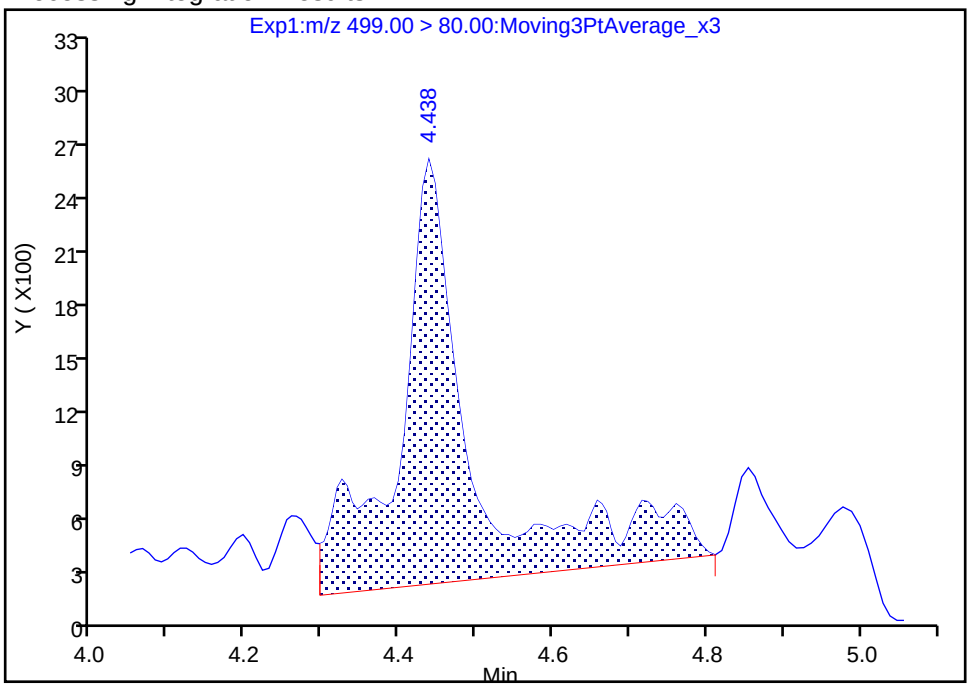
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_074.d
Injection Date: 10-Sep-2020 15:11:20 Instrument ID: A18
Lims ID: MB 320-410910/1-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 38 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

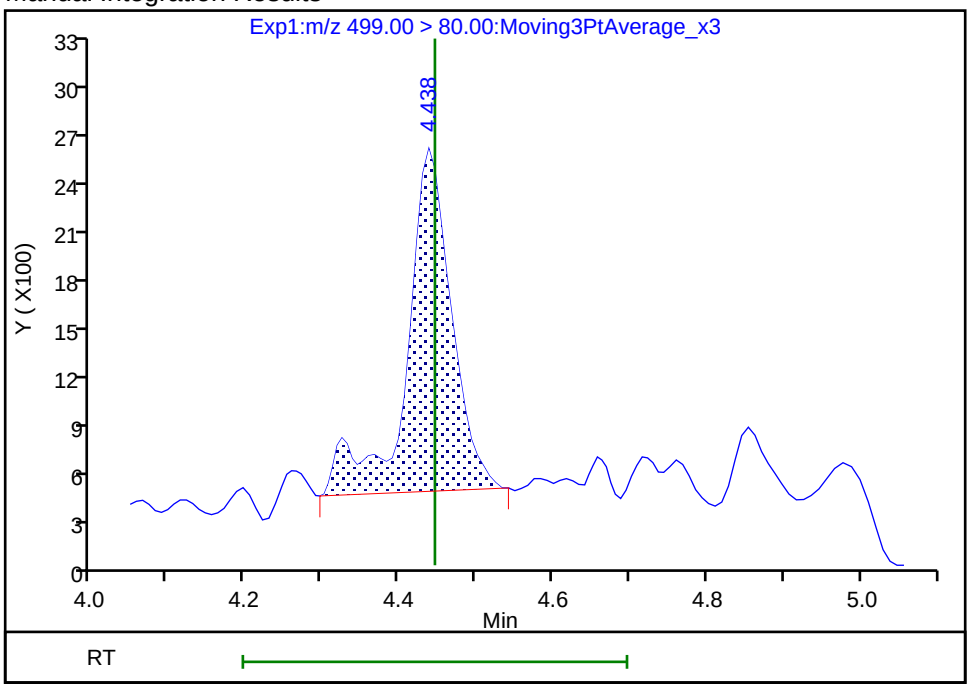
Processing Integration Results

RT: 4.44
Area: 16225
Amount: 0.009507
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 8656
Amount: 0.005072
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:08:02
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-411226/1-A

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_025.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 250(mL) Date Analyzed: 09/11/2020 13:14

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.35	U	2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.261	J	2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.35	U	2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90
27619-97-2	6:2 FTS	2.00	U	20.0	2.00
39108-34-4	8:2 FTS	2.00	U	20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-411226/1-A

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_025.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 250(mL) Date Analyzed: 09/11/2020 13:14

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	73		25-150
STL01893	13C5 PFPeA	90		25-150
STL00993	13C2 PFHxA	89		25-150
STL01892	13C4 PFHpA	92		25-150
STL00990	13C4 PFOA	92		25-150
STL00995	13C5 PFNA	97		25-150
STL00996	13C2 PFDA	100		25-150
STL00997	13C2 PFUnA	98		25-150
STL00998	13C2 PFDoA	97		25-150
STL02116	13C2 PFTeDA	92		25-150
STL02337	13C3 PFBS	94		25-150
STL00994	18O2 PFHxS	100		25-150
STL00991	13C4 PFOS	101		25-150
STL01056	13C8 FOSA	89		25-150
STL02118	d3-NMeFOSAA	78		25-150
STL02117	d5-NEtFOSAA	84		25-150
STL02279	M2-6:2 FTS	94		25-150
STL02280	M2-8:2 FTS	102		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d
Lims ID: MB 320-411226/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Sep-2020 13:14:59 ALS Bottle#: 13 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-411226/1-a (DUE:9/14) PFC WATERS
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTRLCMS02 Instrument ID: A9

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 18:06:02 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 14:32:04
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.889	1.893	-0.004	0.565	6039851	1.84		73.4	2298	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.873	1.893	-0.020	0.992	2492	0.001181			0.2	
D 4 13C5 PFPeA										
267.90 > 223.00	2.199	2.198	0.001	0.657	6259215	2.26		90.3	2940	
3 Perfluoropentanoic acid										M
262.90 > 219.00	2.199	2.198	0.001	1.000	17069	0.006699			0.8	M
D 6 13C3 PFBS										
301.90 > 80.00	2.225	2.224	0.001	0.665	12037823	2.20		94.5	4654	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.244	2.224	0.020	1.009	21555	0.004173	Target=3.28		1.7	
298.90 > 99.00	2.225	2.224	0.001	1.000	7889		2.73(1.64-4.92)		1.0	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.516	2.515	0.001	0.752	1201831	2.21		94.6	674	
D 10 13C2 PFHxA										
315.00 > 270.00	2.548	2.547	0.001	0.762	5766465	2.24		89.4	3313	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.677	2.661	0.016	0.800	4062783	2.30		91.8	3004	
D 15 13C4 PFHpA										
367.00 > 322.00	2.946	2.940	0.006	0.881	5797885	2.31		92.4	3909	
D 17 18O2 PFHxS										
403.00 > 84.00	2.946	2.940	0.006	0.881	6206970	2.37		100	5470	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.952	2.946	0.006	1.002	20187	0.006521	Target=3.49		7.2	M
399.00 > 99.00	2.940	2.946	-0.006	0.998	4334		4.66(1.75-5.24)		3.1	M
D 20 M2-6:2 FTS										
429.00 > 81.00	3.331	3.324	0.007	0.996	1046213	2.23		93.9	1133	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.338	3.324	0.014	1.002	724	0.001066			1.7	
D 26 13C4 PFOA										
417.00 > 372.00	3.345	3.345	0.0	1.000	5384754	2.29		91.6	5646	
24 Perfluorooctanoic acid										M
413.00 > 369.00	3.353	3.345	0.008	1.002	20794	0.008951	Target=2.44		2.9	M
413.00 > 169.00	3.353	3.345	0.008	1.002	5933		3.50(1.22-3.66)		5.2	M
* 25 13C2 PFOA										
415.00 > 370.00	3.345	3.345	0.0		6092365	2.50			6710	
D 31 13C4 PFOS										
503.00 > 80.00	3.729	3.720	0.009	1.115	6619347	2.42		101	2390	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.729	3.720	0.009	1.000	11873	0.004123	Target=4.47		2.1	M
499.00 > 99.00	3.713	3.720	-0.007	0.996	2570		4.62(2.24-6.71)		3.7	M
D 29 13C5 PFNA										
468.00 > 423.00	3.737	3.735	0.002	1.117	4966800	2.43		97.3	6818	
30 Perfluorononanoic acid										
463.00 > 419.00	3.746	3.735	0.011	1.002	3946	0.001995	Target=4.27		1.3	
463.00 > 169.00	3.764	3.735	0.029	1.007	770		5.12(2.13-6.40)		2.2	
D 36 13C8 FOSA										
506.00 > 78.00	4.076	4.074	0.002	1.218	2866457	2.23		89.1	2908	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.085	4.074	0.011	1.002	20049	0.006286			45.5	
D 33 13C2 PFDA										
515.00 > 470.00	4.102	4.092	0.010	1.226	6453115	2.49		99.6	5911	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.102	4.092	0.010	1.226	1404424	2.44		102	705	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.264	4.253	0.011	1.275	2525155	1.96		78.4	1351	
D 46 13C2 PFUnA										
565.00 > 520.00	4.420	4.409	0.011	1.321	4880553	2.44		97.7	4787	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.429	4.418	0.011	1.324	1810126	2.10		83.9	1533	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.429	4.426	0.003	1.000	5389	0.009175			11.0	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.549	4.538	0.010	1.360	1412605	3.41		27.3	1108	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.566	4.555	0.011	1.365	1102450	1.90		76.1	197	
D 56 13C2 PFDoA										
615.00 > 570.00	4.715	4.704	0.011	1.409	4778043	2.44		97.4	8335	
52 Perfluorododecanoic acid										R
613.00 > 569.00	4.715	4.704	0.011	1.000	3751	0.002134	Target=7.23		4.8	R
613.00 > 169.00	4.715	4.704	0.011	1.000	1146		3.27(3.61-10.84)		8.0	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.715	4.713	0.002	1.409	1217492	2.80		22.4	1088	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.743	4.731	0.012		870075	1.45		57.8	553	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.221	5.211	0.010	1.561	3152344	2.30		92.2	10112	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.655	5.634	0.021	1.690	2147671	2.12		84.9	4336	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.655	5.643	0.012	1.000	19976	0.003531	Target=4.58		64.3	
813.00 > 169.00	5.655	5.643	0.012	1.000	4125		4.84(2.29-6.88)		25.1	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Report Date: 11-Sep-2020 18:06:02 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d

Injection Date: 11-Sep-2020 13:14:59 Instrument ID: A9

Lims ID: MB 320-411226/1-A

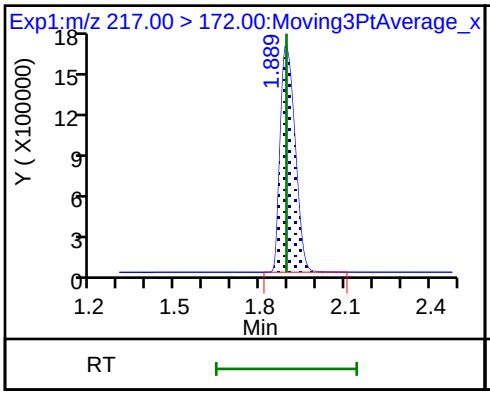
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 13 Worklist Smp#: 2

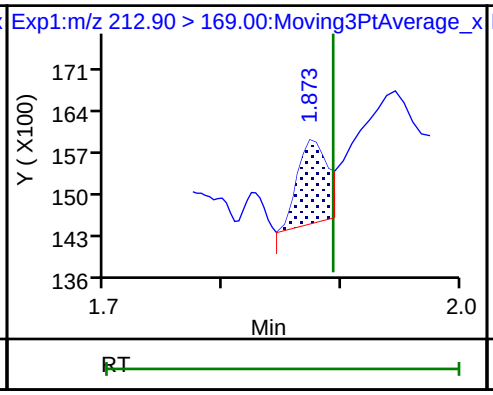
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

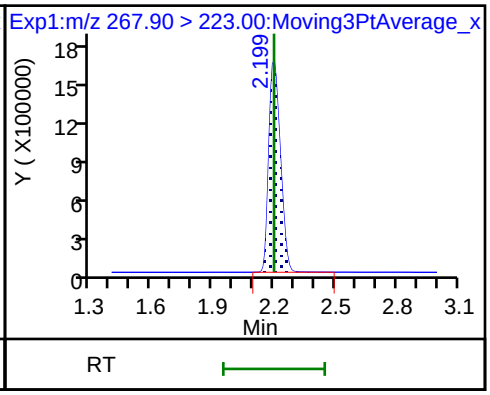
D 1 13C4 PFBA



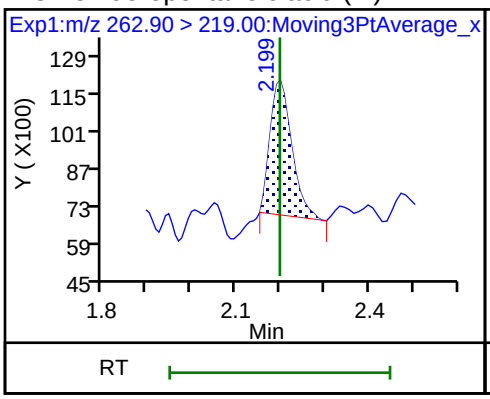
2 Perfluorobutanoic acid



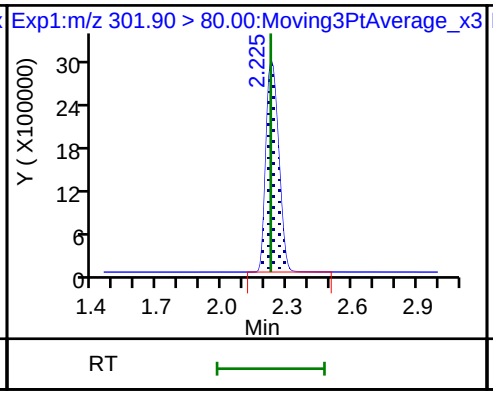
D 4 13C5 PFPeA



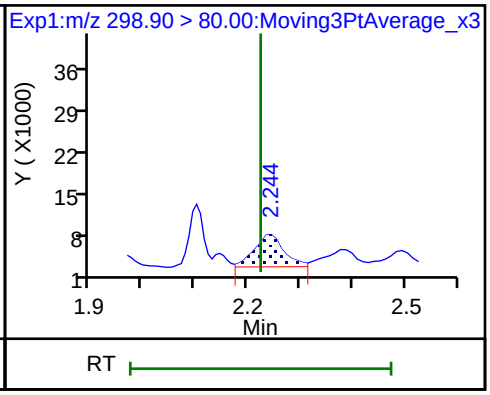
3 Perfluoropentanoic acid (M)



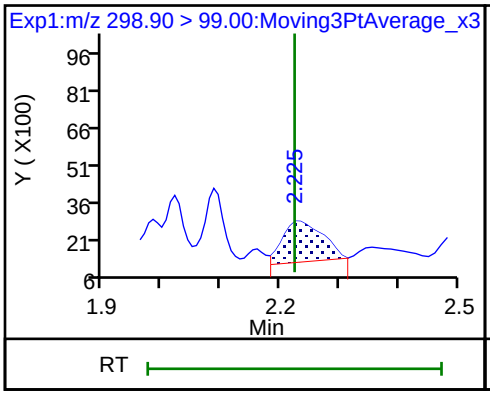
D 6 13C3 PFBS



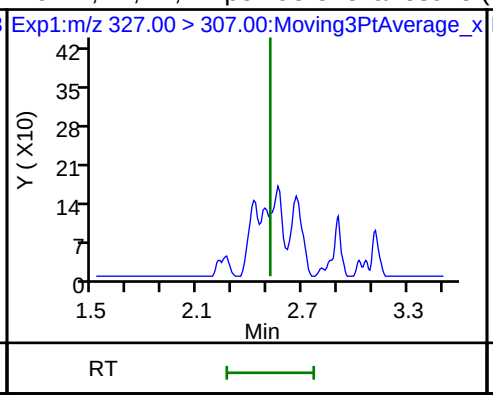
5 Perfluorobutanesulfonic acid



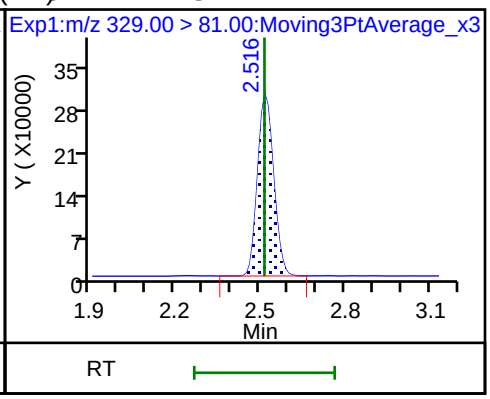
5 Perfluorobutanesulfonic acid



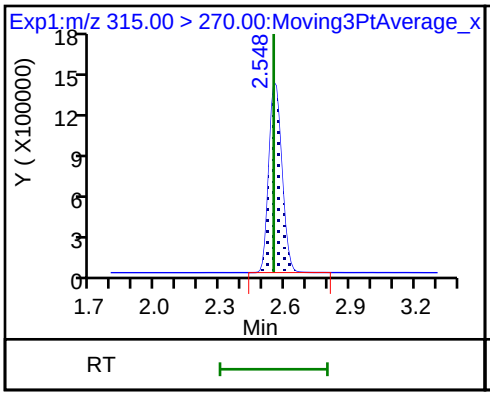
9 1H,1H,2H,2H-perfluorohexanesulfo (ND)



13 M2-4:2 FTS



D 10 13C2 PFHxA



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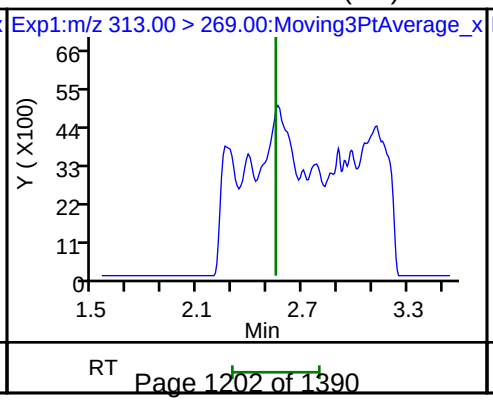

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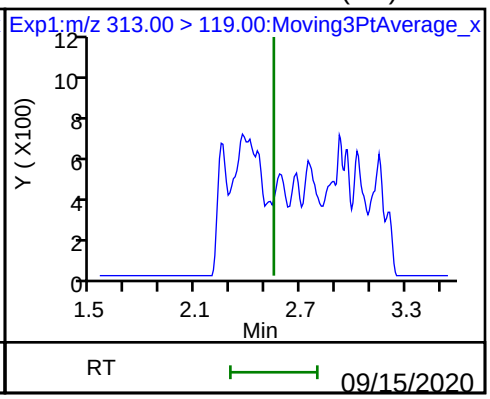
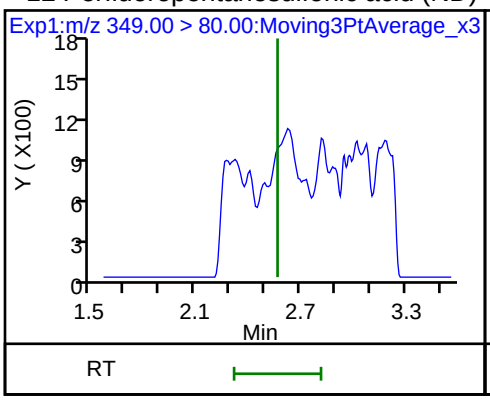
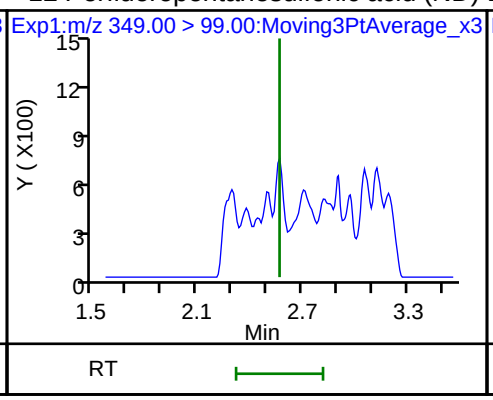


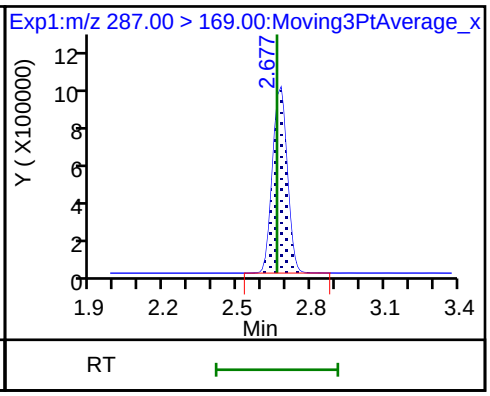
12 Perfluoropentanesulfonic acid (ND)



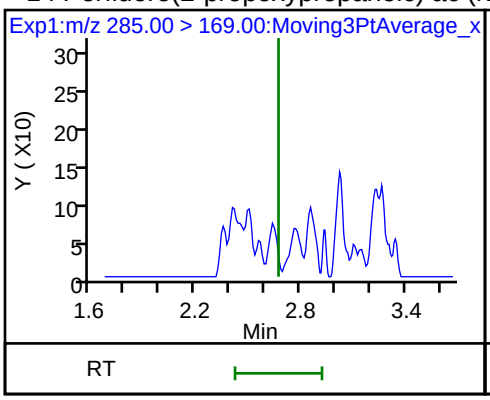
12 Perfluoropentanesulfonic acid (ND) D



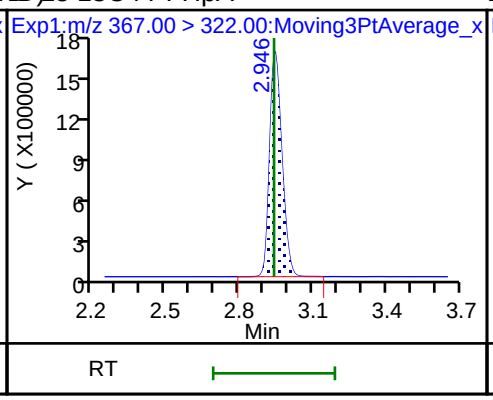
13 13C3 HFPO-DA



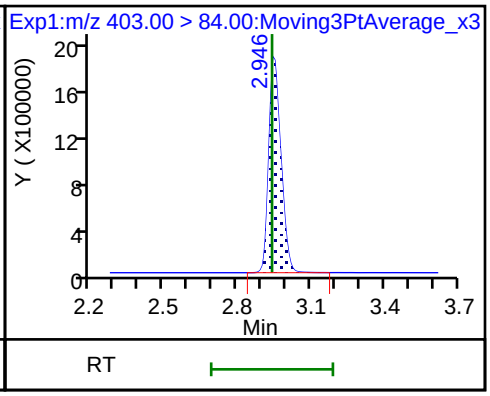
14 Perfluoro(2-propoxypropanoic) ac (ND)



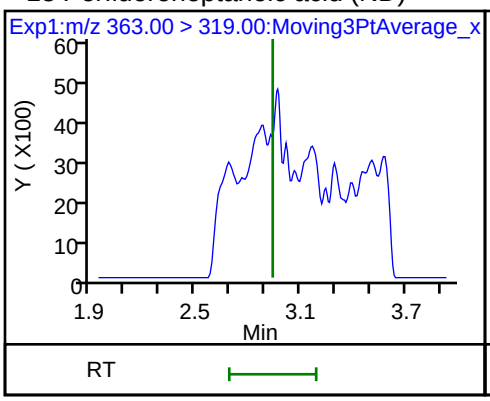
15 13C4 PFHpA D



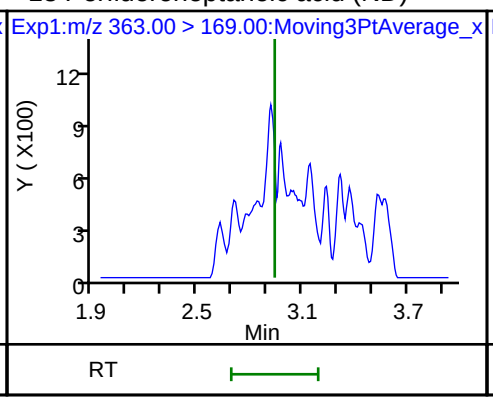
17 18O2 PFHxS



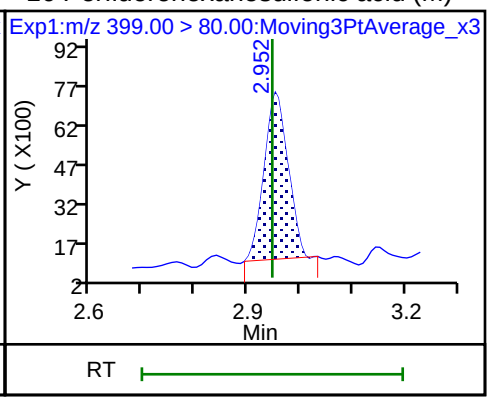
18 Perfluoroheptanoic acid (ND)



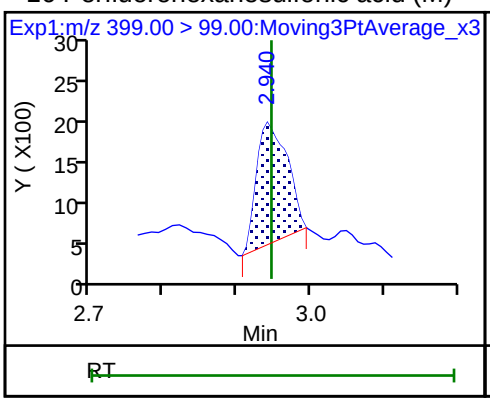
18 Perfluoroheptanoic acid (ND)



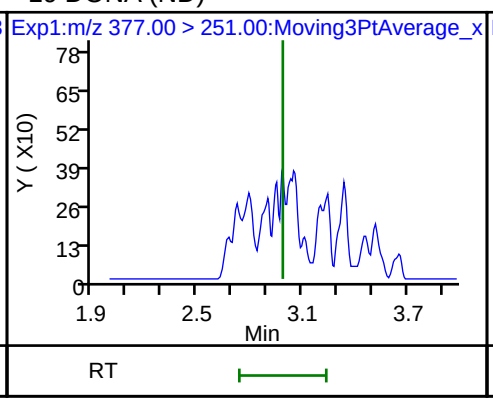
16 Perfluorohexanesulfonic acid (M)



16 Perfluorohexanesulfonic acid (M)



19 DONA (ND)



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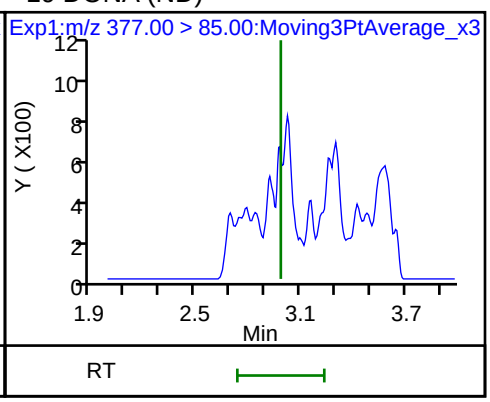
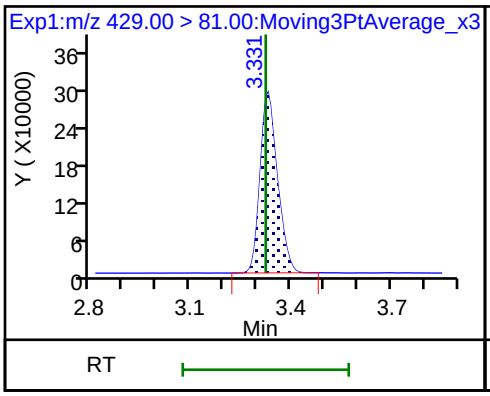
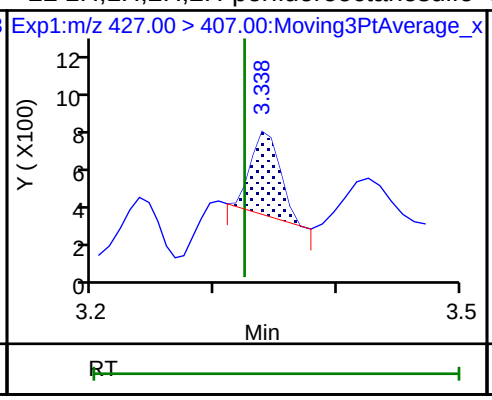


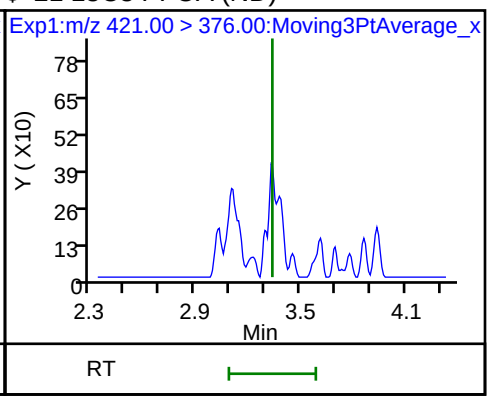
D 20 M2-6:2 FTS



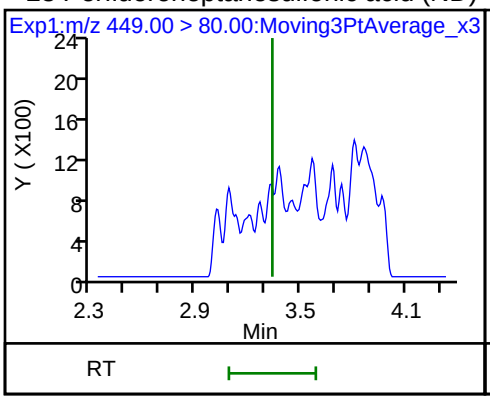
22 1H,1H,2H,2H-perfluorooctanesulfo



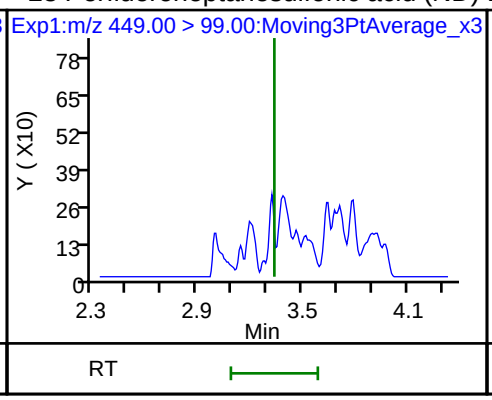
$ 21 13C8 PFOA (ND)



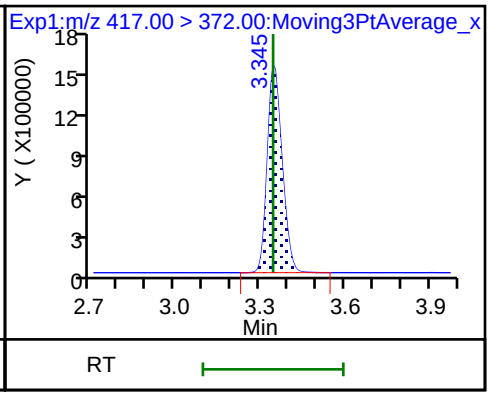
23 Perfluoroheptanesulfonic acid (ND)



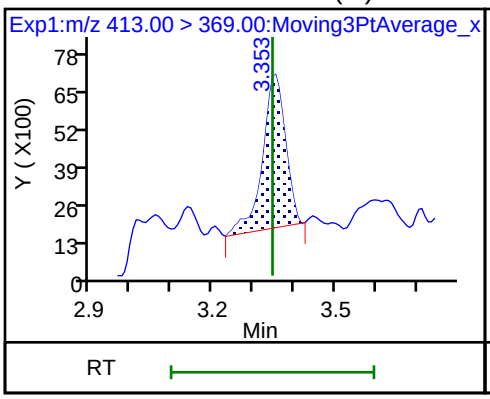
23 Perfluoroheptanesulfonic acid (ND)



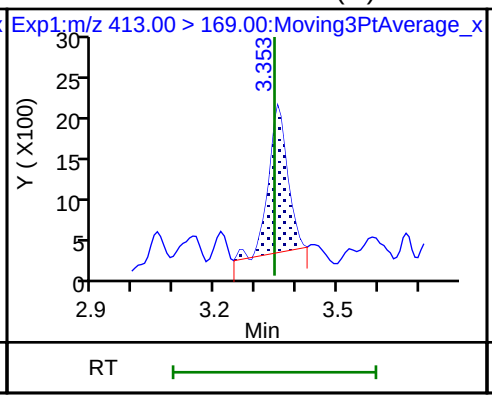
D 26 13C4 PFOA



24 Perfluorooctanoic acid (M)



24 Perfluorooctanoic acid (M)



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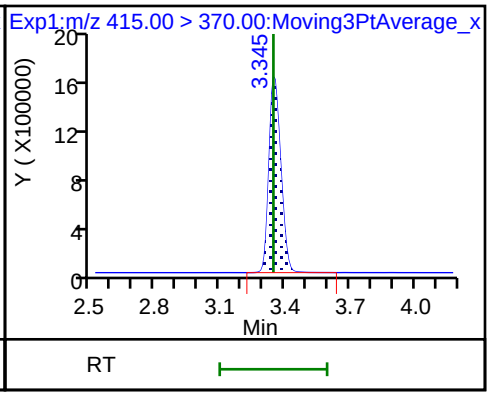
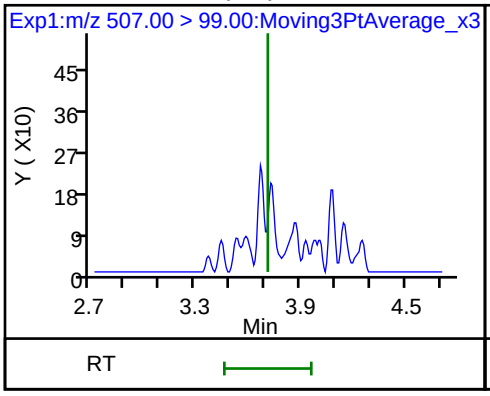
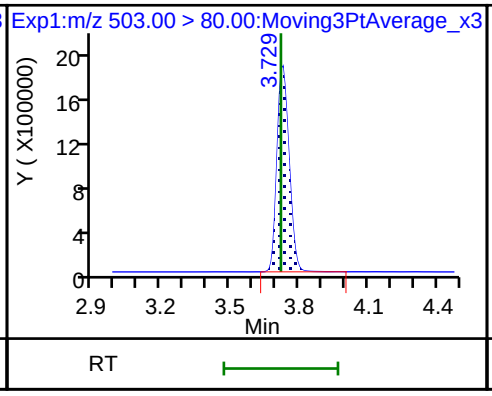


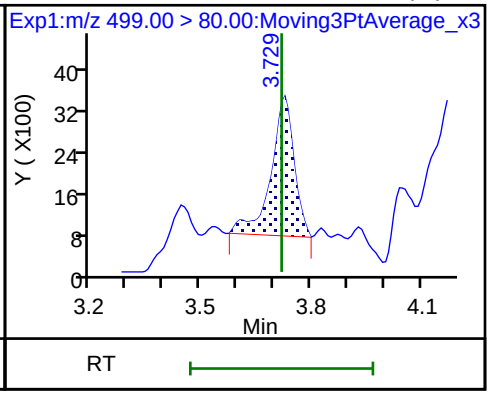
$ 27 13C8 PFOS (ND)



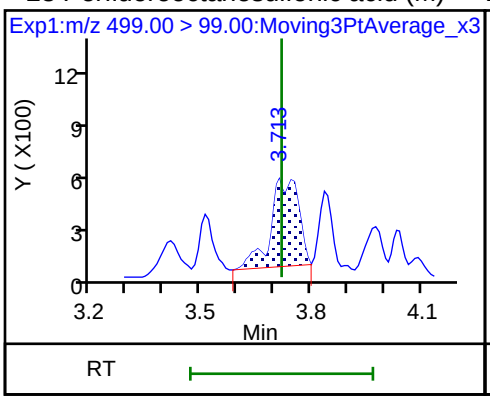
D 31 13C4 PFOS



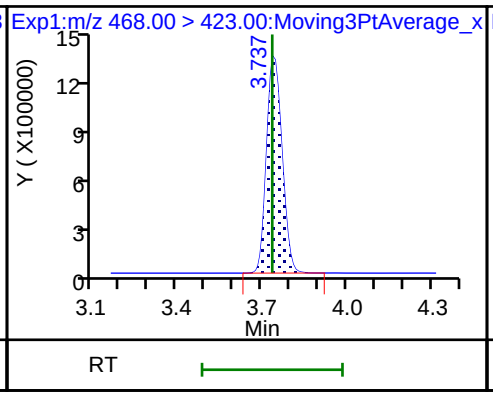
28 Perfluorooctanesulfonic acid (M)



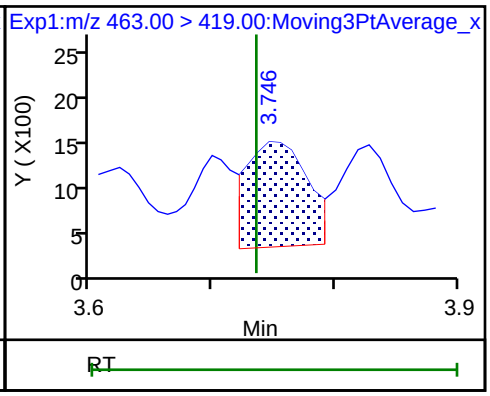
28 Perfluorooctanesulfonic acid (M)



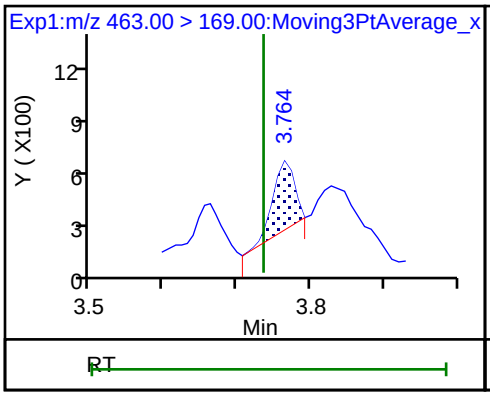
D 29 13C5 PFNA



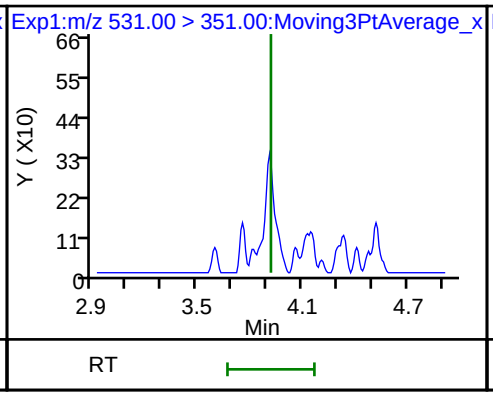
30 Perfluorononanoic acid



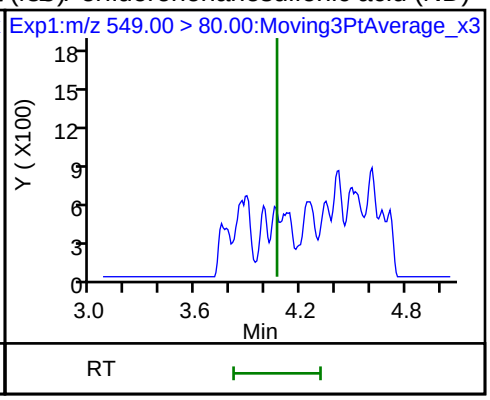
30 Perfluorononanoic acid



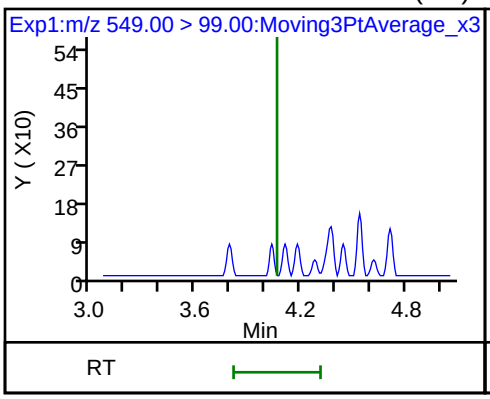
32 9-Chlorohexadecafluoro-3-oxanona (ND)



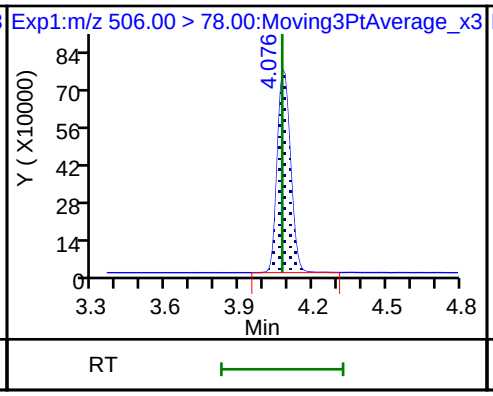
35 Perfluorononanesulfonic acid (ND)



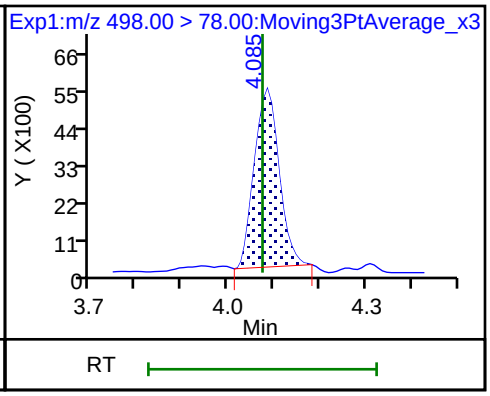
35 Perfluorononanesulfonic acid (ND)



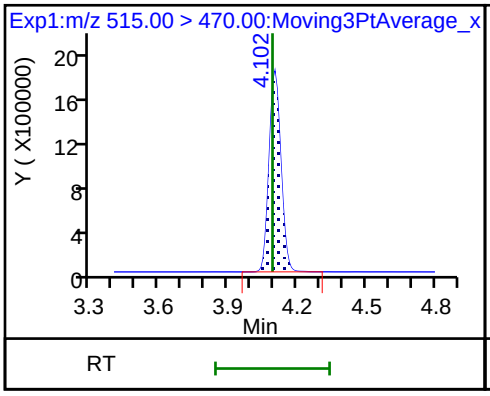
D 36 13C8 FOSA



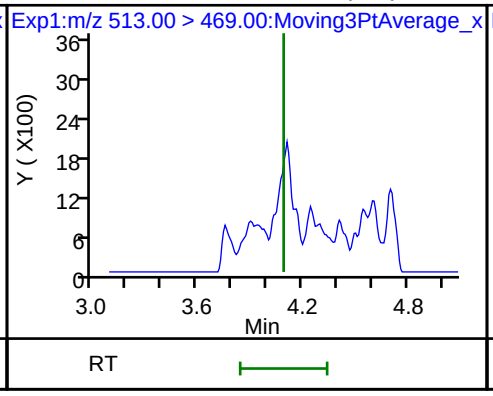
34 Perfluorooctanesulfonamide



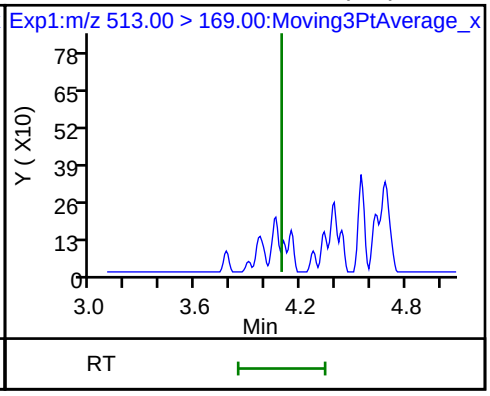
D 33 13C2 PFDA



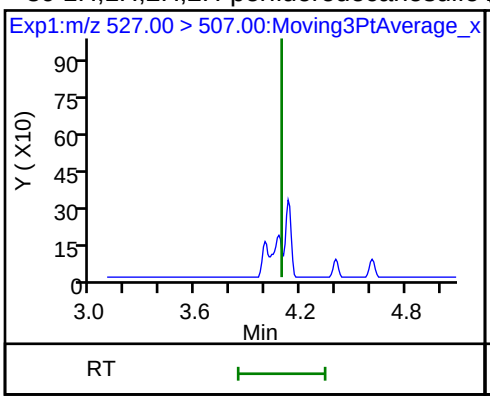
38 Perfluorodecanoic acid (ND)



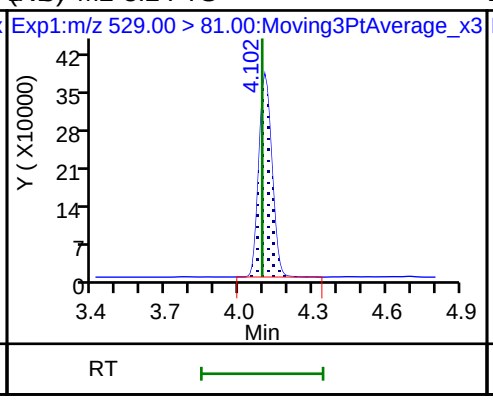
38 Perfluorodecanoic acid (ND)



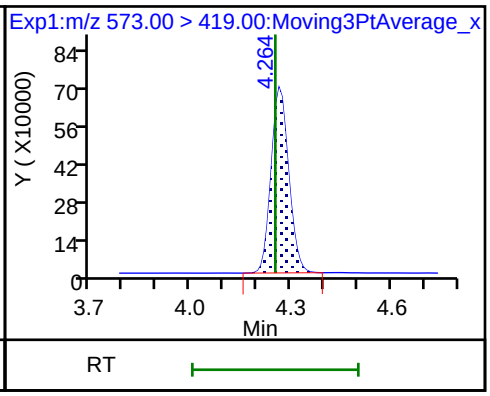
39 1H,1H,2H,2H-perfluorodecanesulfo (ND)



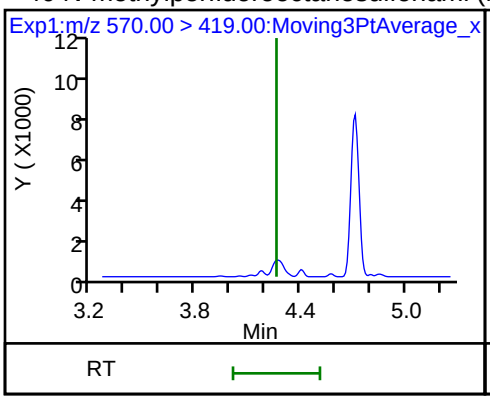
D 37 M2-8:2 FTS



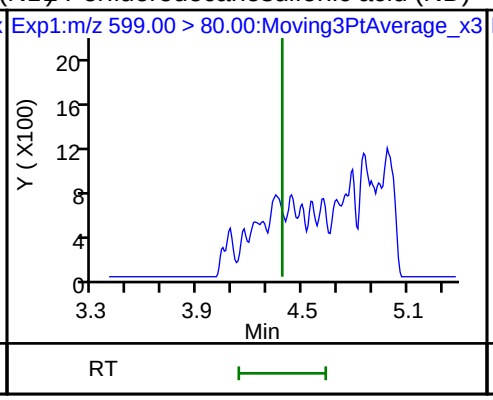
D 41 d3-NMeFOSAA



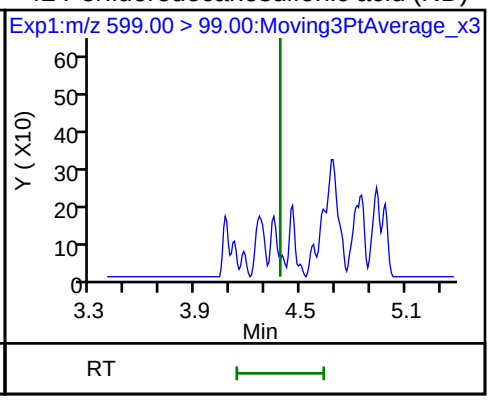
40 N-methylperfluorooctanesulfonami (ND)



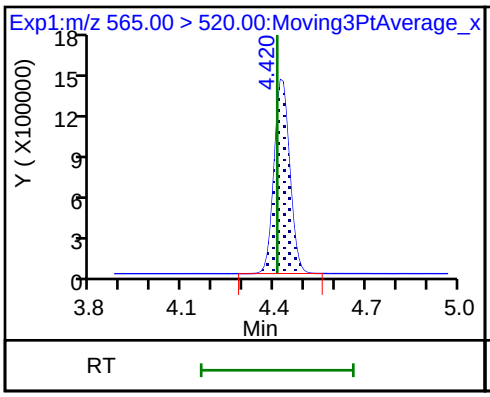
42 Perfluorodecanesulfonic acid (ND)



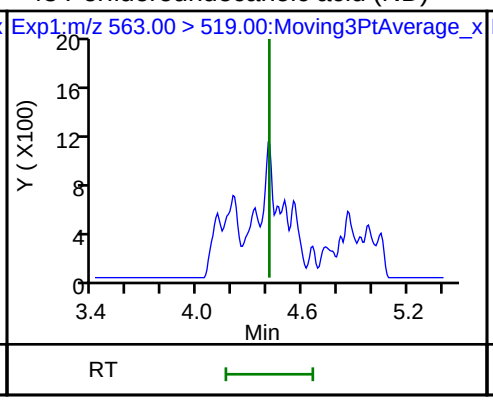
42 Perfluorodecanesulfonic acid (ND)



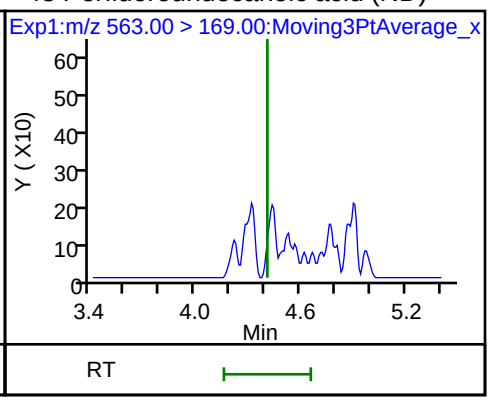
D 46 13C2 PFUnA



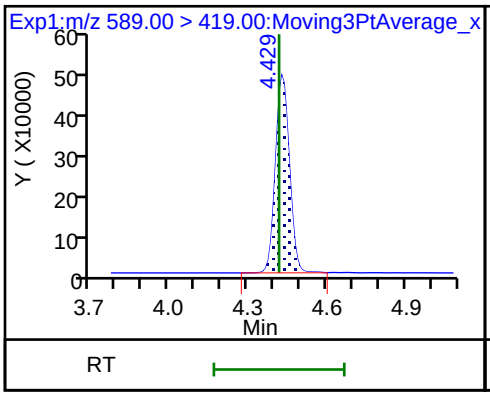
43 Perfluoroundecanoic acid (ND)



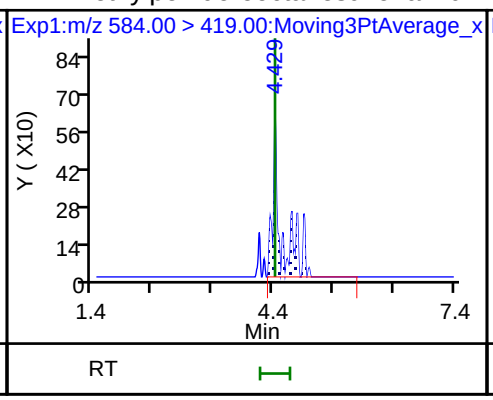
43 Perfluoroundecanoic acid (ND)



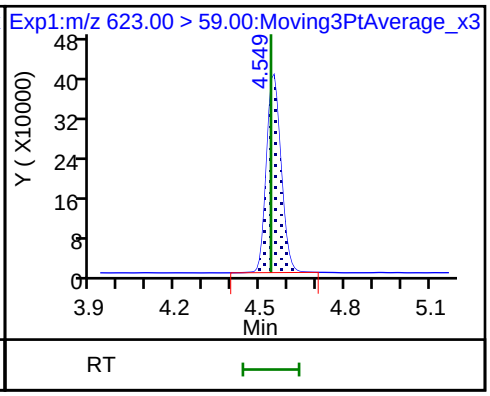
D 45 d5-NEtFOSAA



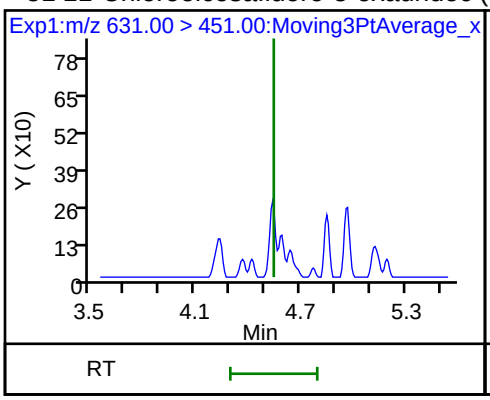
44 N-ethylperfluorooctanesulfonamid



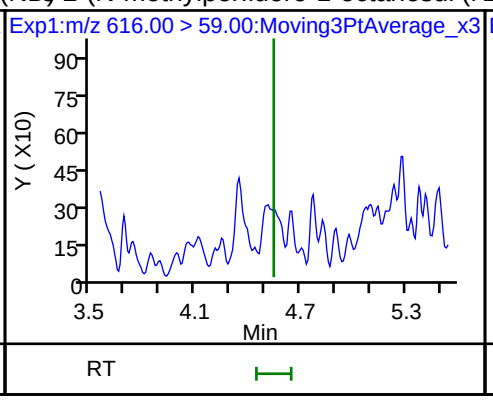
D 47 d7-N-MeFOSE-M



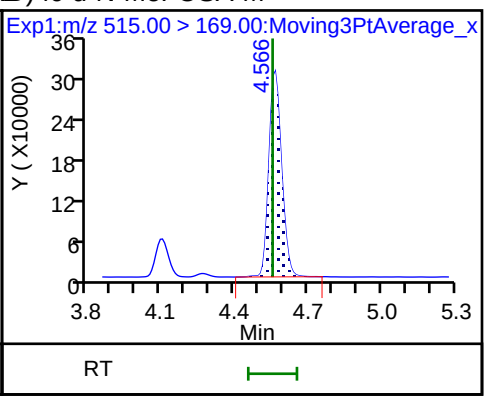
51 11-Chloroeicosafluoro-3-oxaundec (ND)



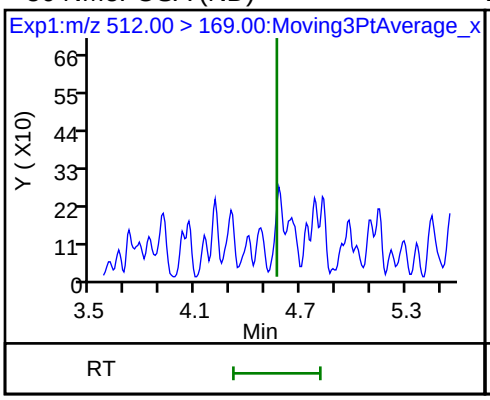
49 2-(N-methylperfluoro-1-octanesul (ND)



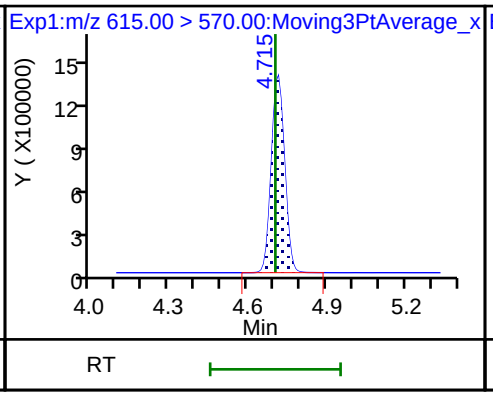
D 49 d-N-MeFOSA-M



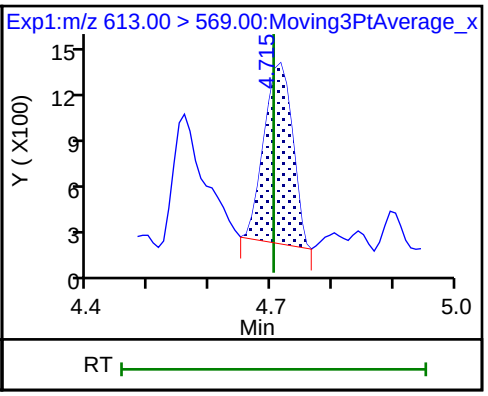
50 NMeFOSA (ND)



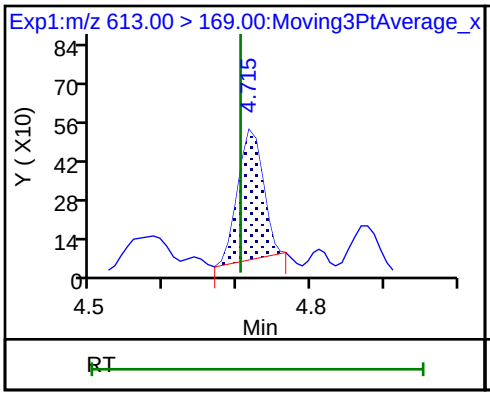
D 56 13C2 PFDoA



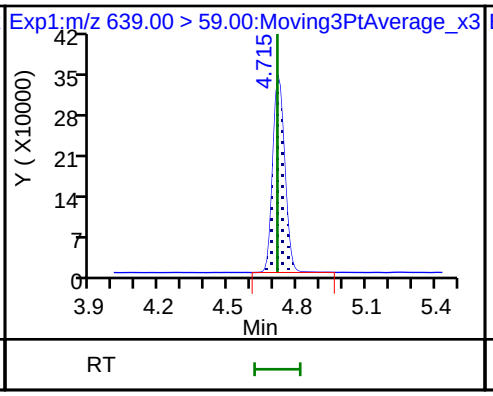
52 Perfluorododecanoic acid



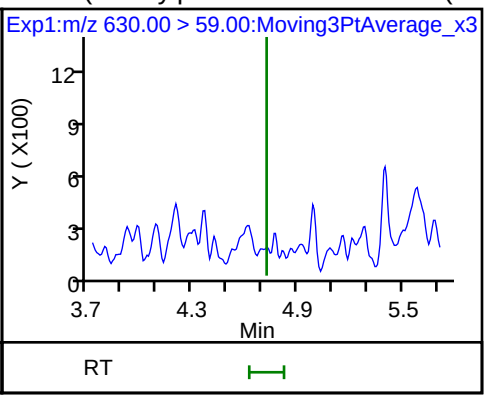
52 Perfluorododecanoic acid



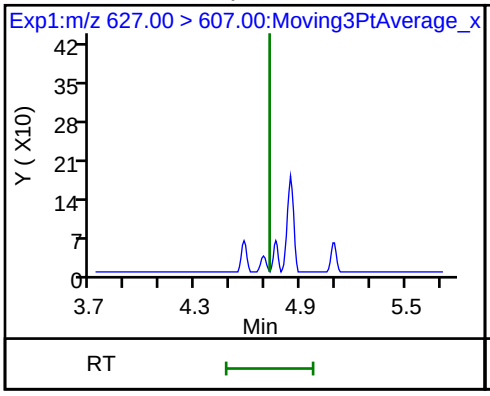
D 53 d9-N-EtFOSE-M



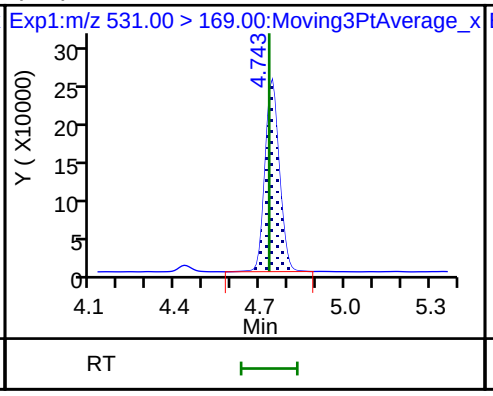
54 2-(N-ethylperfluoro-1-octanesulf (ND)



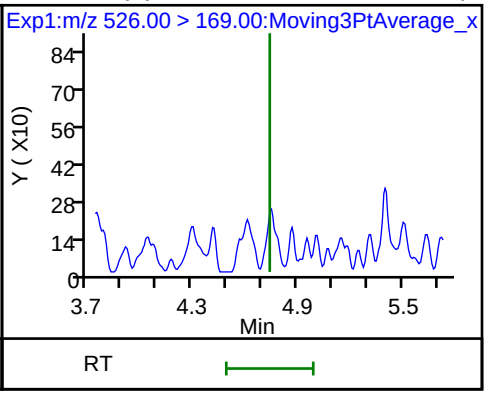
55 1H,1H,2H,2H-perfluorododecanesulfo (ND)



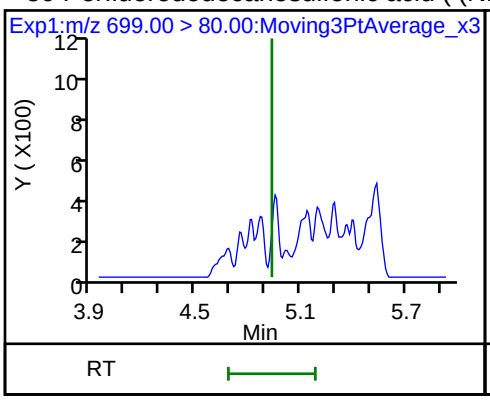
D 58 d-N-EtFOSA-M



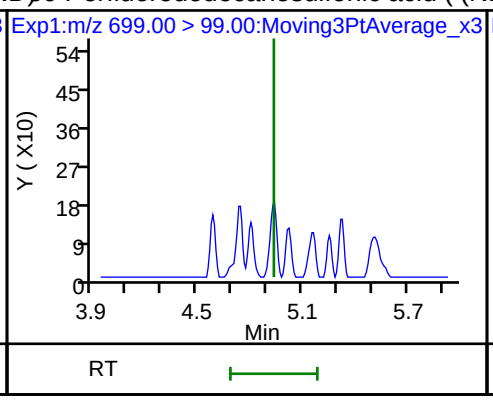
57 N-ethylperfluoro-1-octanesulfona (ND)



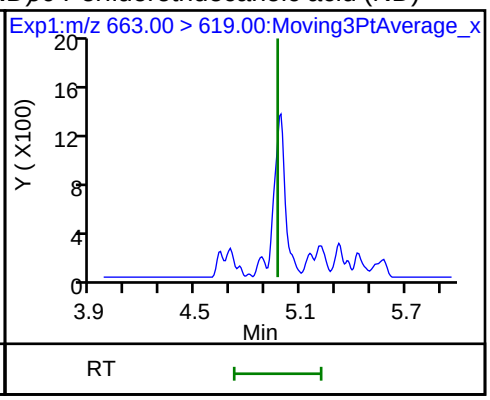
59 Perfluorododecanesulfonic acid ((ND)



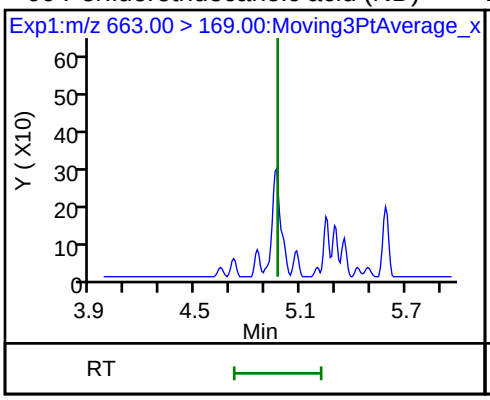
59 Perfluorododecanesulfonic acid ((ND)



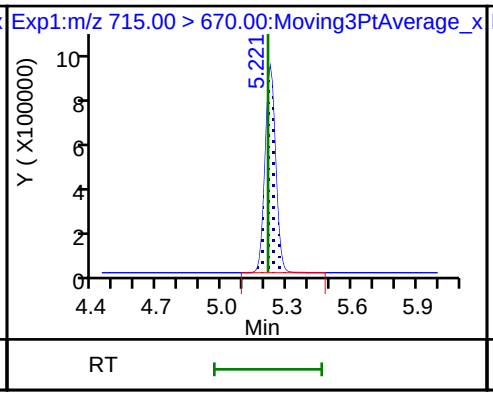
60 Perfluorotridecanoic acid (ND)



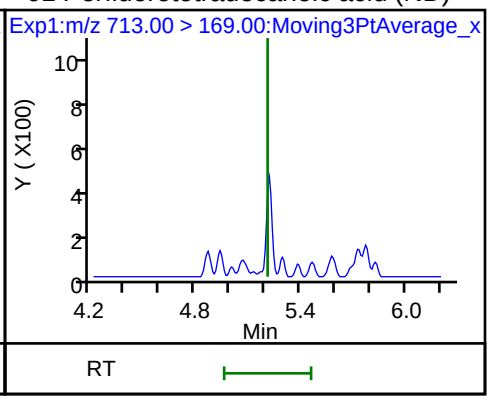
60 Perfluorotridecanoic acid (ND)



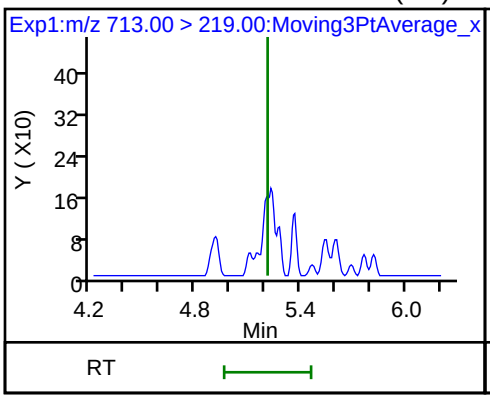
D 62 13C2 PFTeDA



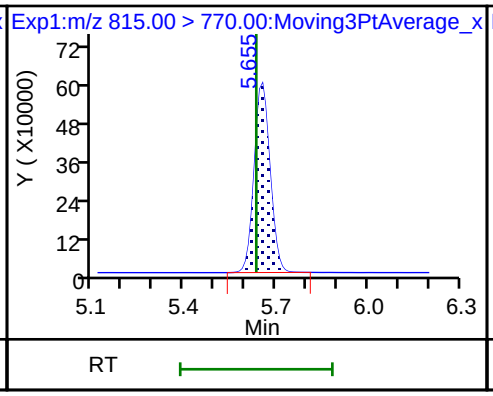
61 Perfluorotetradecanoic acid (ND)



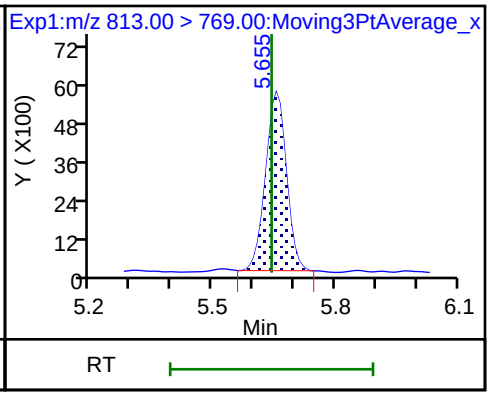
61 Perfluorotetradecanoic acid (ND)



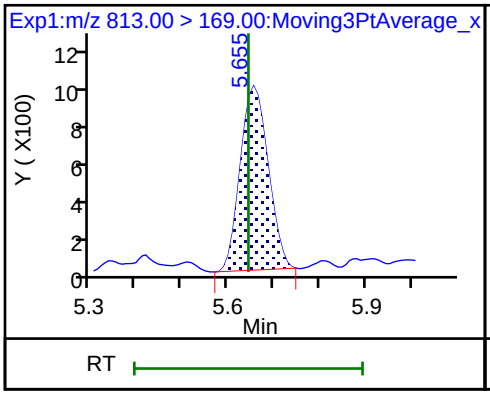
D 63 13C2 PFHxDA



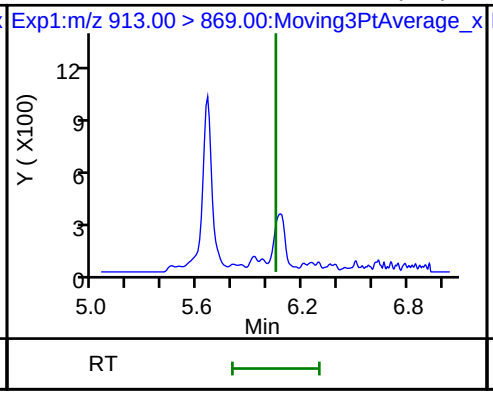
64 Perfluorohexadecanoic acid



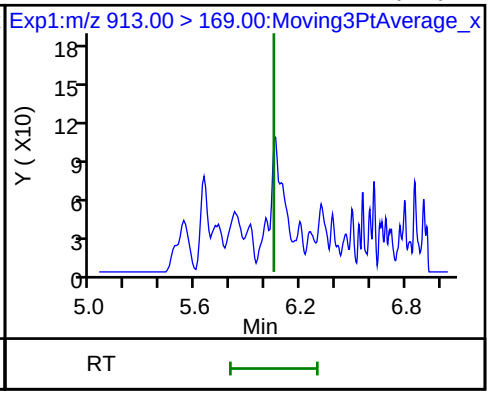
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Sacramento

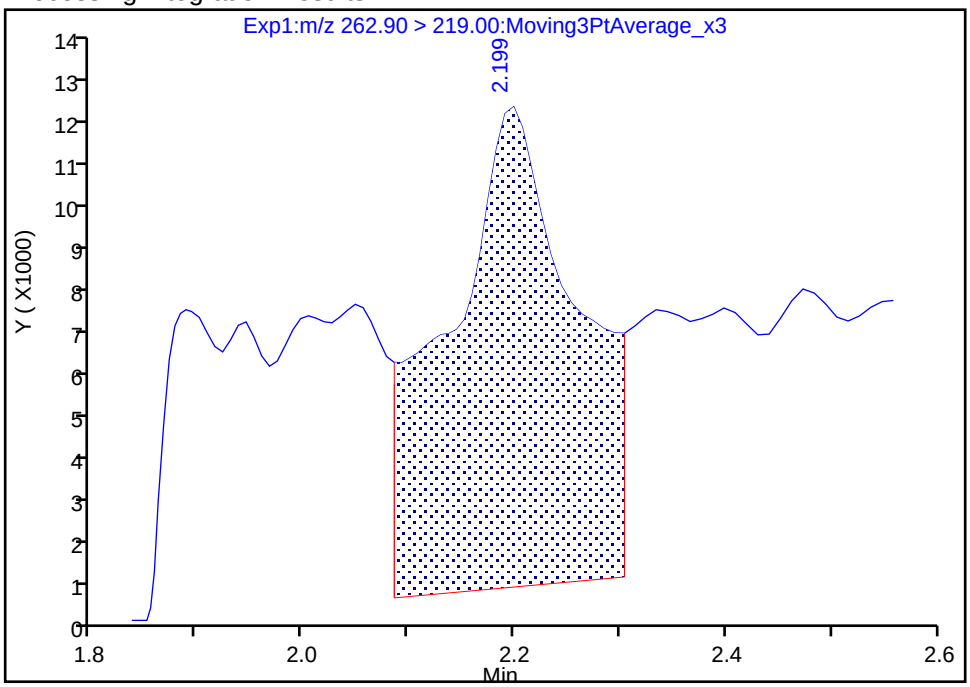
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d
Injection Date: 11-Sep-2020 13:14:59 Instrument ID: A9
Lims ID: MB 320-411226/1-A
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 13 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

3 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

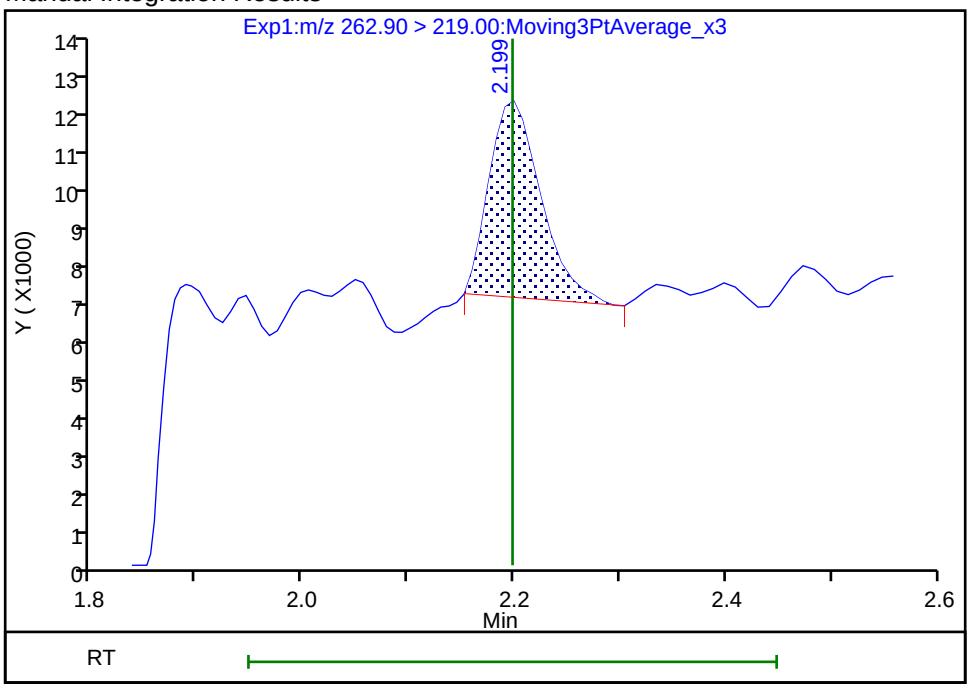
Processing Integration Results

RT: 2.20
Area: 94644
Amount: 0.037147
Amount Units: ng/ml



Manual Integration Results

RT: 2.20
Area: 17069
Amount: 0.006699
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:27:55
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

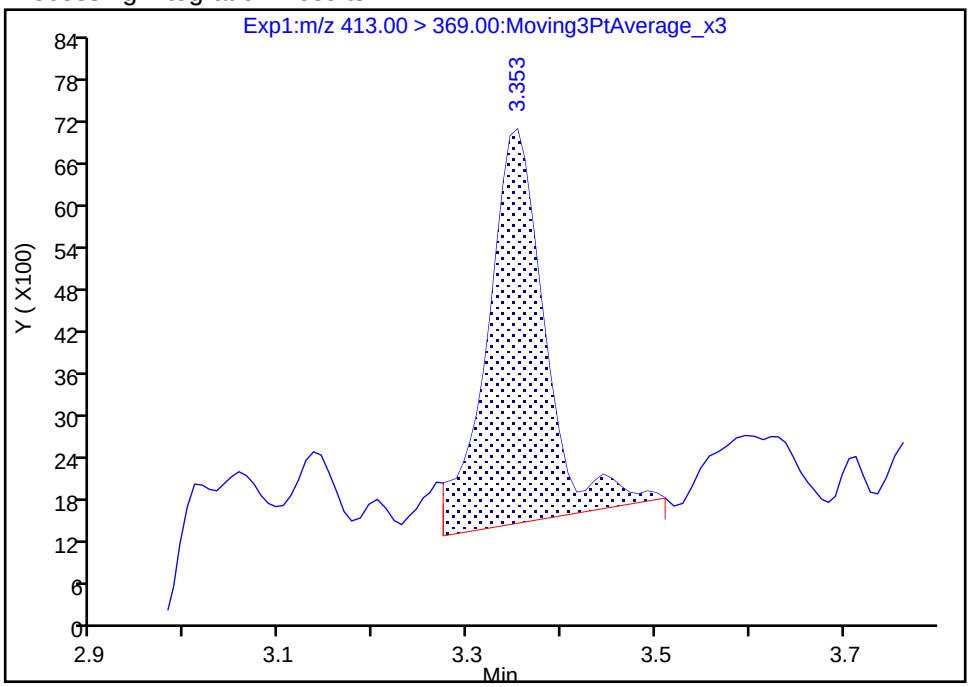
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d				
Injection Date:	11-Sep-2020 13:14:59	Instrument ID:	A9		
Lims ID:	MB 320-411226/1-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

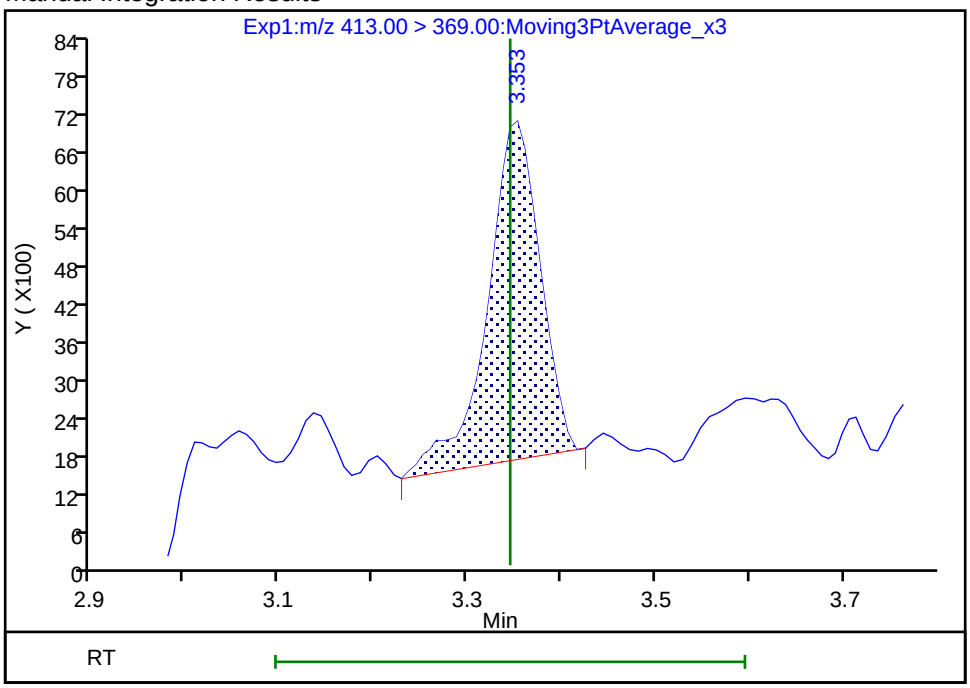
Processing Integration Results

RT: 3.35
Area: 23899
Amount: 0.010288
Amount Units: ng/ml



Manual Integration Results

RT: 3.35
Area: 20794
Amount: 0.008951
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:29:53
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

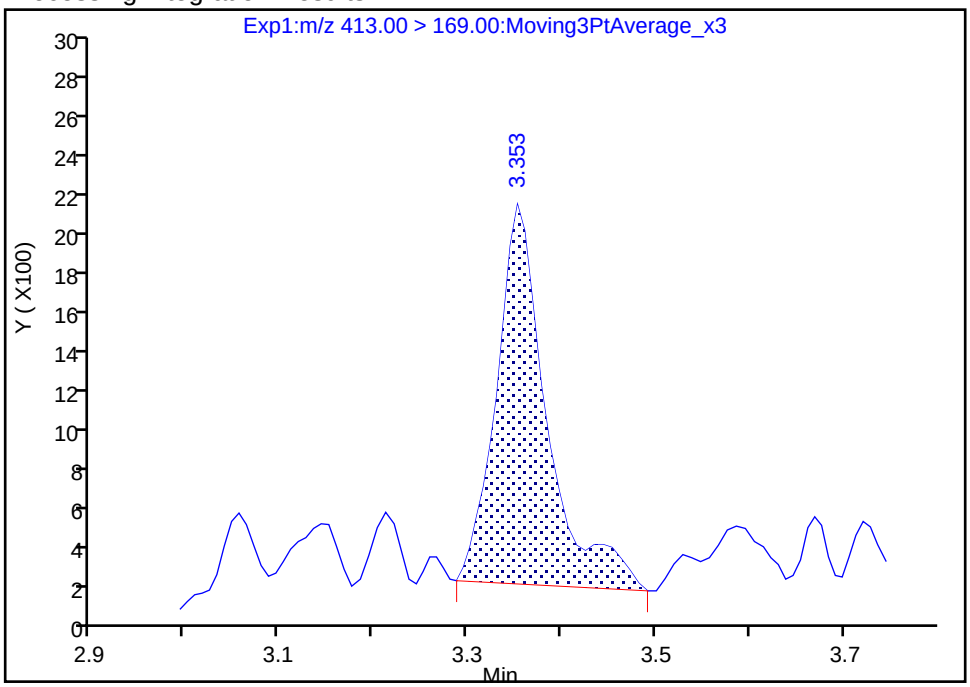
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d				
Injection Date:	11-Sep-2020 13:14:59	Instrument ID:	A9		
Lims ID:	MB 320-411226/1-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

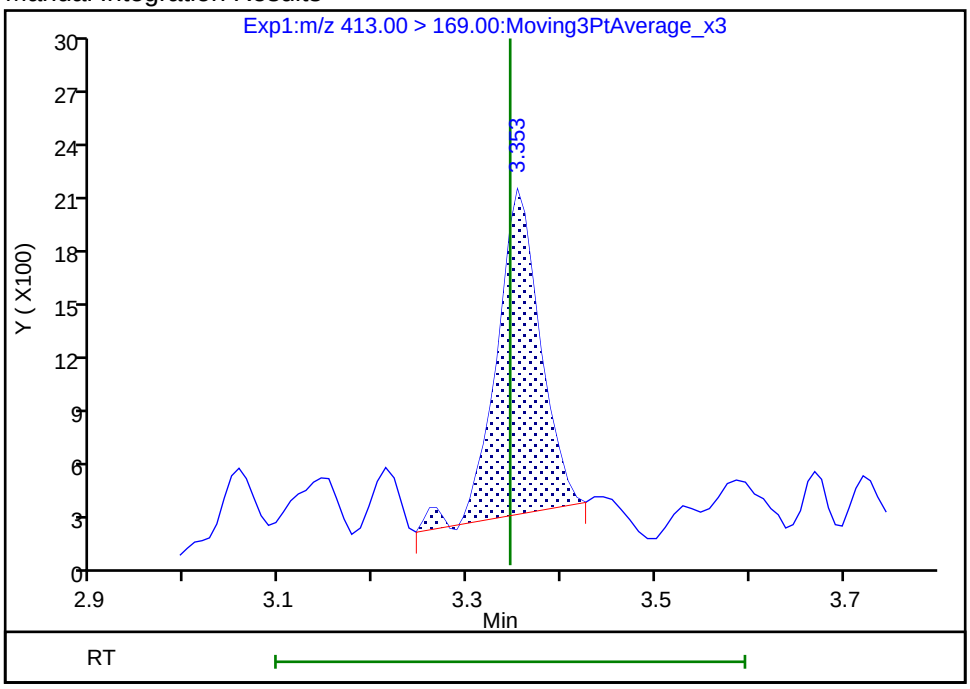
Processing Integration Results

RT: 3.35
Area: 7260
Amount: 0.010288
Amount Units: ng/ml



Manual Integration Results

RT: 3.35
Area: 5933
Amount: 0.008951
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:30:00
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

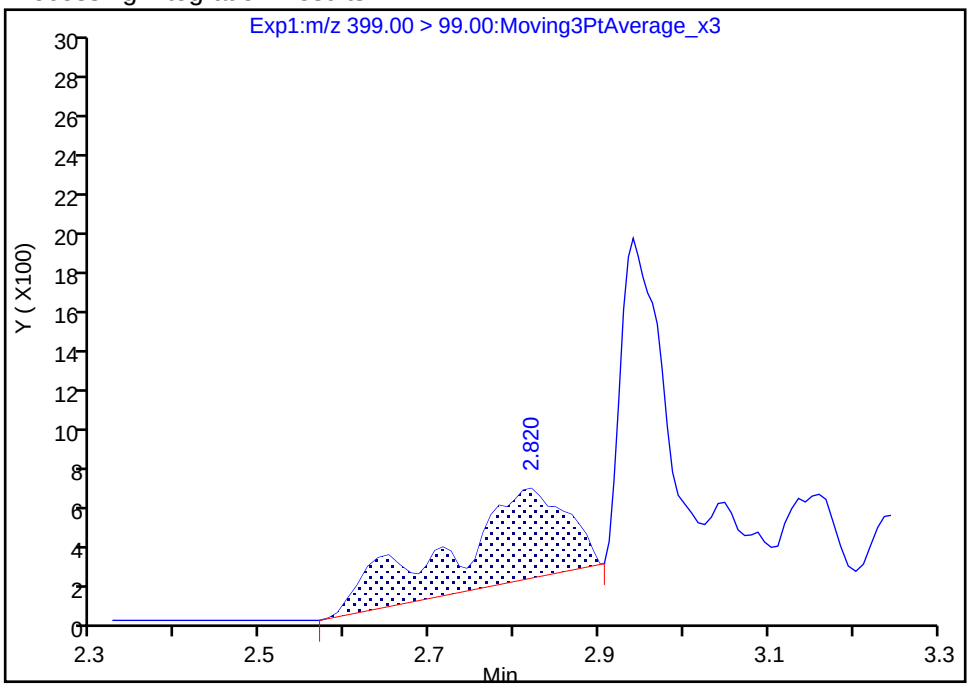
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d
Injection Date: 11-Sep-2020 13:14:59 Instrument ID: A9
Lims ID: MB 320-411226/1-A
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 13 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

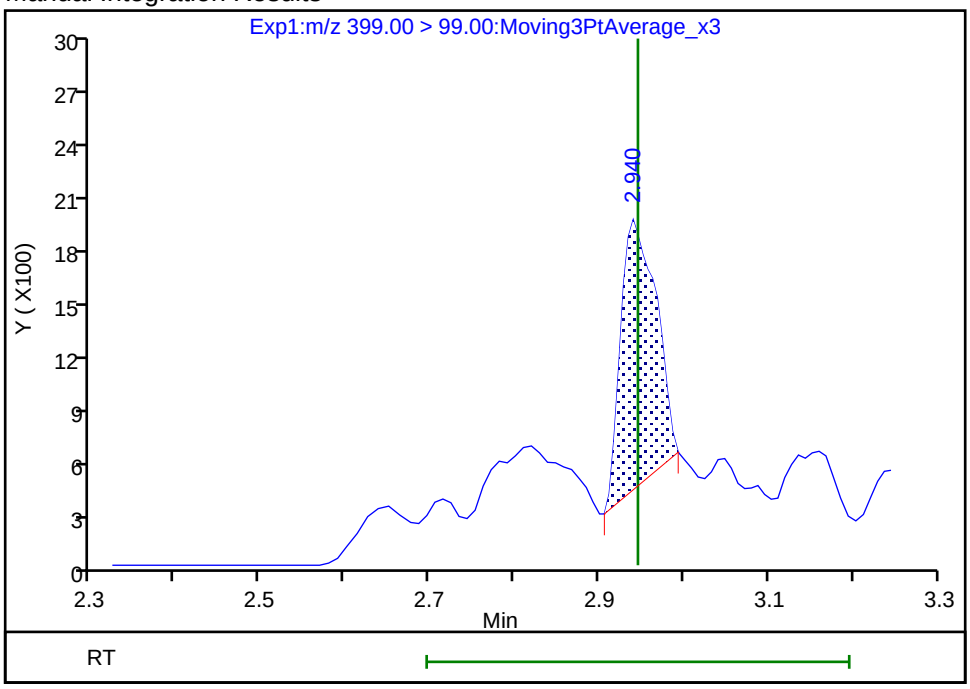
Processing Integration Results

RT: 2.82
Area: 4573
Amount: 0.014562
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 4334
Amount: 0.006521
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:28:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

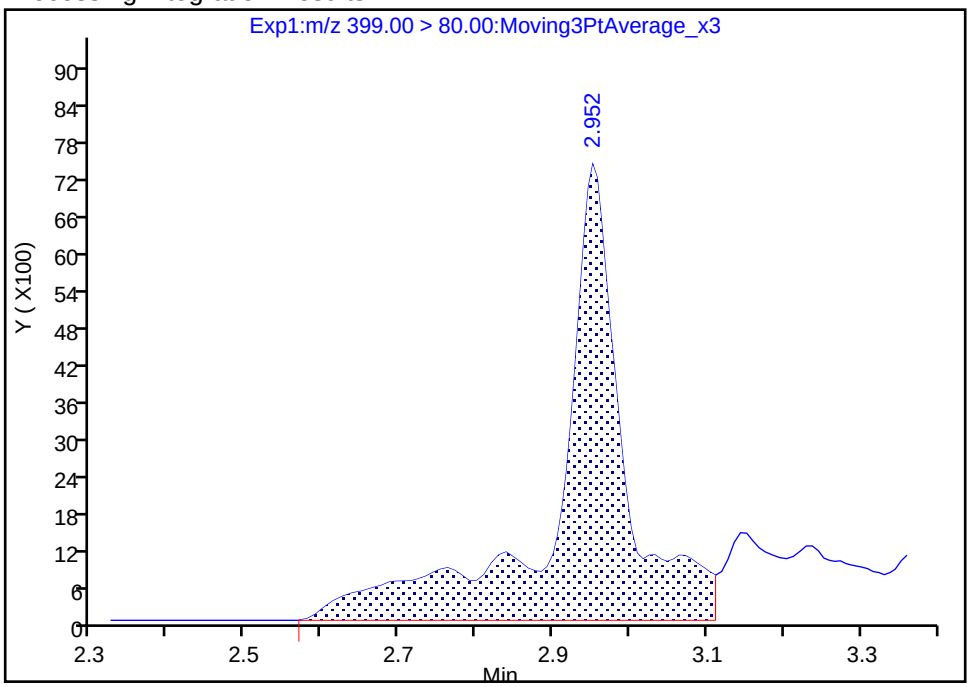
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d				
Injection Date:	11-Sep-2020 13:14:59	Instrument ID:	A9		
Lims ID:	MB 320-411226/1-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

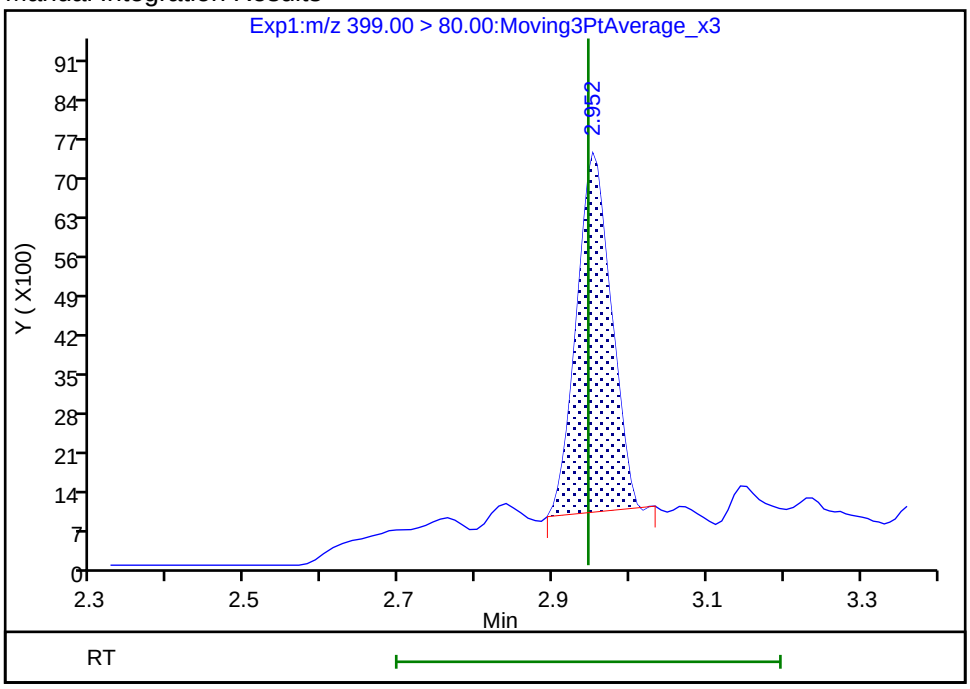
Processing Integration Results

RT: 2.95
Area: 45080
Amount: 0.014562
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 20187
Amount: 0.006521
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:29:08
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

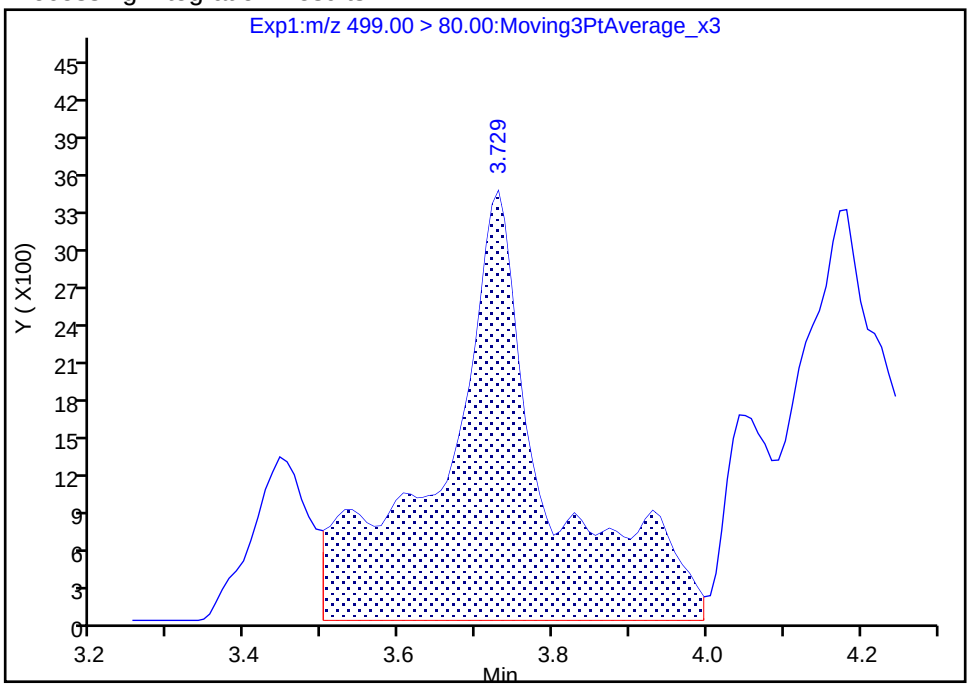
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d				
Injection Date:	11-Sep-2020 13:14:59	Instrument ID:	A9		
Lims ID:	MB 320-411226/1-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

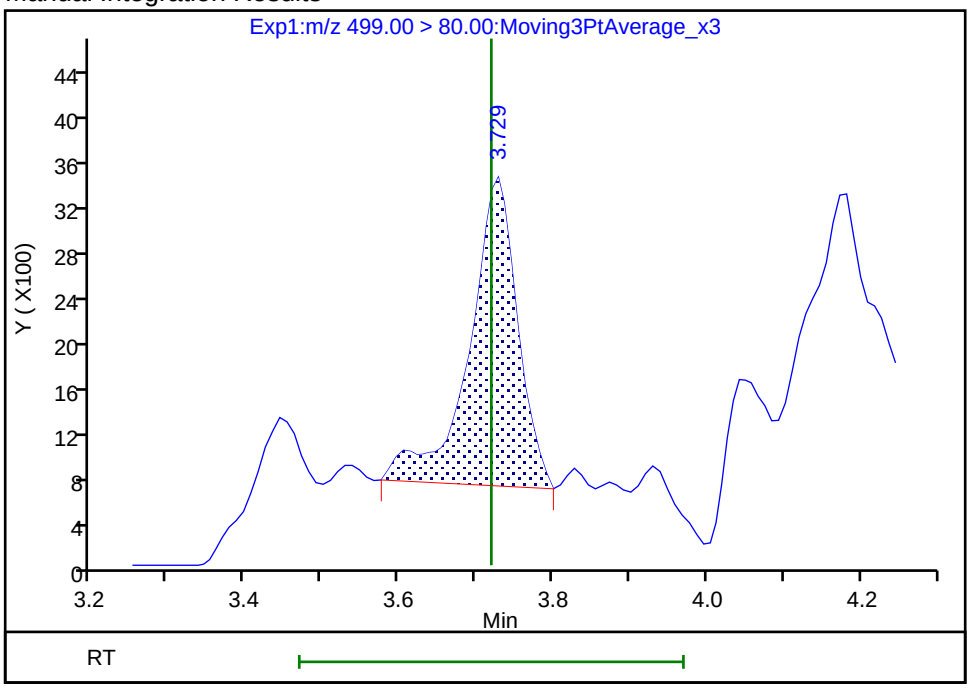
Processing Integration Results

RT: 3.73
Area: 32849
Amount: 0.011408
Amount Units: ng/ml



Manual Integration Results

RT: 3.73
Area: 11873
Amount: 0.004123
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:30:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

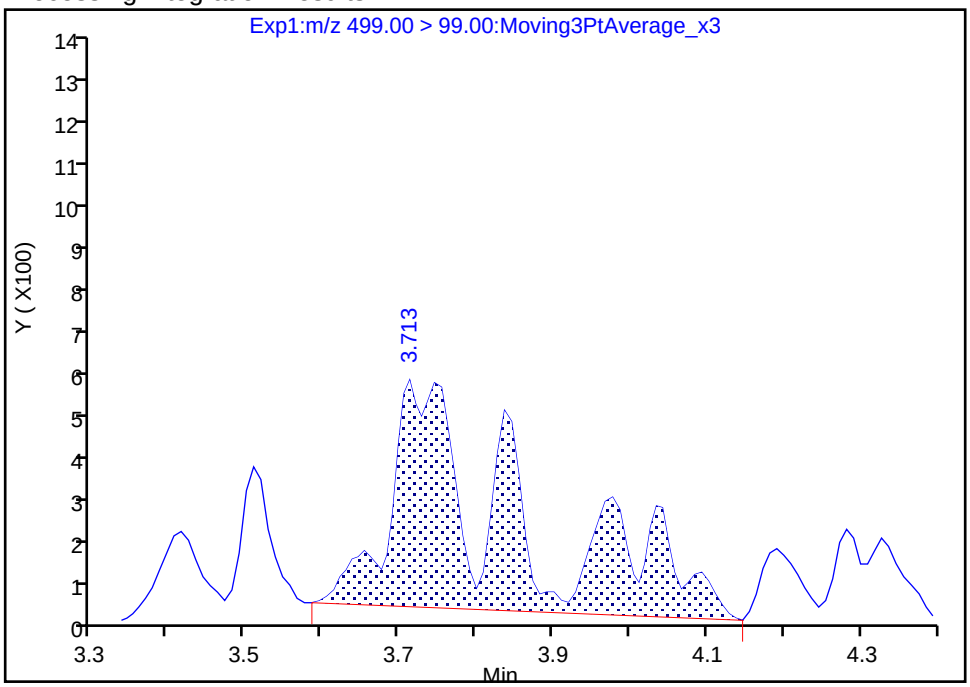
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_025.d				
Injection Date:	11-Sep-2020 13:14:59	Instrument ID:	A9		
Lims ID:	MB 320-411226/1-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	13	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

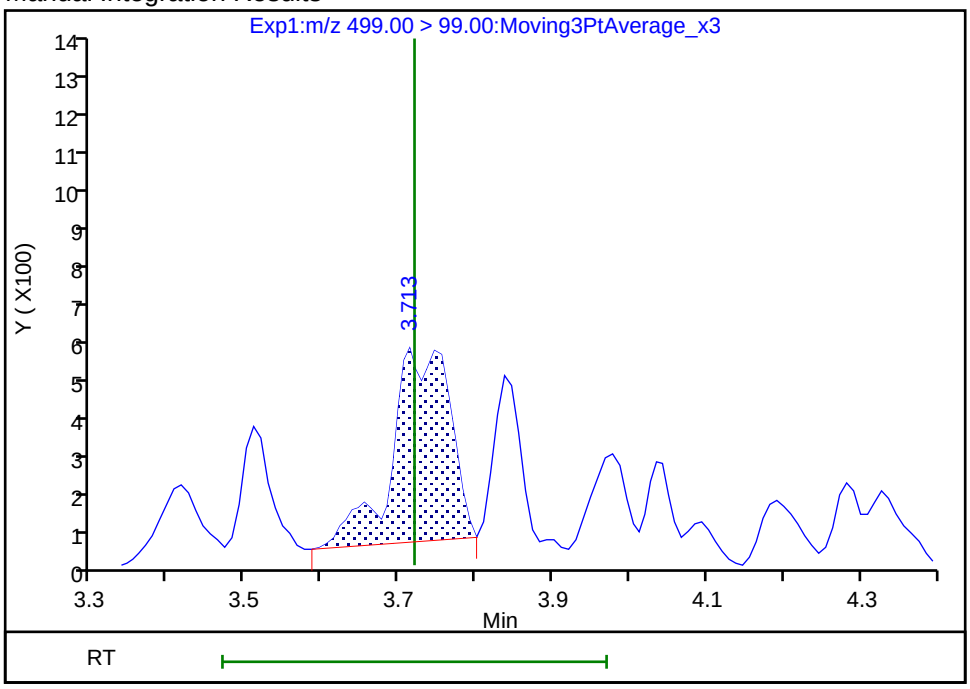
Processing Integration Results

RT: 3.71
Area: 5808
Amount: 0.011408
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 2570
Amount: 0.004123
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 14:30:49
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-410948/1

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_AAA_016.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/10/2020 12:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410948 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0073	U	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00700	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-410948/1

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_AAA_016.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/10/2020 12:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410948 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	89		25-150
STL01893	13C5 PFPeA	88		25-150
STL00993	13C2 PFHxA	102		25-150
STL01892	13C4 PFHpA	99		25-150
STL00990	13C4 PFOA	100		25-150
STL00995	13C5 PFNA	106		25-150
STL00996	13C2 PFDA	115		25-150
STL00997	13C2 PFUnA	109		25-150
STL00998	13C2 PFDoA	107		25-150
STL02116	13C2 PFTeDA	92		25-150
STL02337	13C3 PFBS	103		25-150
STL00994	18O2 PFHxS	103		25-150
STL00991	13C4 PFOS	99		25-150
STL01056	13C8 FOSA	102		25-150
STL02118	d3-NMeFOSAA	96		25-150
STL02117	d5-NEtFOSAA	105		25-150
STL02279	M2-6:2 FTS	100		25-150
STL02280	M2-8:2 FTS	93		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_016.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 10-Sep-2020 12:35:56 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCB (53)
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 13:19:46 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1002

First Level Reviewer: vangm Date: 10-Sep-2020 13:19:46
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200910-103000.b\2020.09.10_A18_PFC_A_063.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.565	2.555	0.010	0.625	17187040	2.24		89.4	7081	
D 4 13C5 PFPeA										
267.90 > 223.00	2.919	2.907	0.012	0.711	13195981	2.21		88.3	4000	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.919	2.907	0.012	1.000	16133	0.003066			1.0	
D 9 13C3 PFBS										
301.90 > 80.00	2.950	2.938	0.012	0.718	11196892	2.38		103	5734	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.248	3.236	0.012	0.791	2549000	2.25		96.5	1154	
D 11 13C2 PFHxA										
315.00 > 270.00	3.298	3.286	0.012	0.803	15236733	2.55		102	6830	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.415	3.413	0.002	0.832	2814585	2.30		92.2	6379	
D 17 18O2 PFHxS										
403.00 > 84.00	3.701	3.696	0.005	0.901	6073610	2.45		103	6526	
D 18 13C4 PFHpA										
367.00 > 322.00	3.701	3.696	0.005	0.901	12636341	2.48		99.2	6624	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.711	3.696	0.015	1.003	21244	0.007002	Target=3.48		8.3	M
399.00 > 99.00	3.711	3.696	0.015	1.003	6718		3.16(1.74-5.21)		5.8	M
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.701	3.696	0.005	1.000	13922	0.002717	Target=3.70		1.6	
363.00 > 169.00	3.701	3.696	0.005	1.000	2969		4.69(1.85-5.56)		3.2	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.074	4.072	0.002	0.992	2259607	2.38		100	1700	
21 6:2 FTS										
427.00 > 407.00	4.074	4.072	0.002	1.000	18508	0.008462			36.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
$ 26 13C8 PFOA										
421.00 > 376.00	4.090	4.080	0.010	0.996	8020753	2.45		100	6281	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.107	4.096	0.011	1.002	41784	0.008474	Target=3.12		6.6	M
413.00 > 169.00	4.099	4.096	0.003	1.000	14611		2.86(1.56-4.68)		13.4	M
D 25 13C4 PFOA										
417.00 > 372.00	4.099	4.096	0.003	0.998	12081246	2.49		99.5	6164	
* 23 13C2 PFOA										
415.00 > 370.00	4.107	4.096	0.011		12124580	2.50			8332	
$ 28 13C8 PFOS										
507.00 > 99.00	4.462	4.451	0.011	1.087	1274656	2.43		102	3219	
D 27 13C4 PFOS										
503.00 > 80.00	4.462	4.451	0.011	1.087	3981555	2.37		99.1	1921	
D 30 13C5 PFNA										
468.00 > 423.00	4.478	4.467	0.011	1.090	10401435	2.66		106	8043	
D 33 13C8 FOSA										
506.00 > 78.00	4.794	4.791	0.003	1.167	6914801	2.55		102	5560	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.794	4.791	0.003	1.000	730	0.000284			4.8	
D 39 13C2 PFDA										
515.00 > 470.00	4.837	4.826	0.011	1.178	10906261	2.87		115	11482	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.837	4.834	0.003	1.178	3042406	2.22		92.8	1936	
36 8:2 FTS										
527.00 > 507.00	4.837	4.834	0.003	1.000	450	0.000200			4.7	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.010	4.997	0.013	1.220	6135512	2.41		96.3	6163	
D 43 13C2 PFUnA										
565.00 > 520.00	5.166	5.155	0.011	1.258	10225942	2.72		109	9839	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.175	5.164	0.011	1.260	7105664	2.64		105	5079	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.248	5.256	-0.008	1.278	8368217	12.5		99.7	3436	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.279	5.267	0.012	1.285	2531428	2.66		106	47.1	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.426	5.424	0.002	1.321	10235461	12.4		99.3	5119	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.448	5.446	0.002	1.327	2483414	2.55		102	393	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.458	5.446	0.012	1.000	8362	0.002059	Target=8.97		4.2	
613.00 > 169.00	5.448	5.446	0.002	0.998	1257		6.65(4.48-13.45)		3.7	
D 56 13C2 PFDoA										
615.00 > 570.00	5.458	5.457	0.001	1.329	9930353	2.68		107	7699	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.970	5.970	0.0	1.454	7011721	2.29		91.6	5612	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C2 PFHxDA										
815.00 > 770.00	6.420	6.403	0.017	1.563	5457395	2.44		97.5	6713	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.429	6.412	0.017	1.001	41429	-0.002225	Target=8.21		34.5	
813.00 > 169.00	6.420	6.412	0.008	1.000	4728		8.76(4.10-12.31)		41.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00053 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 13:19:46 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_016.d

Injection Date: 10-Sep-2020 12:35:56 Instrument ID: A18

Lims ID: CCB

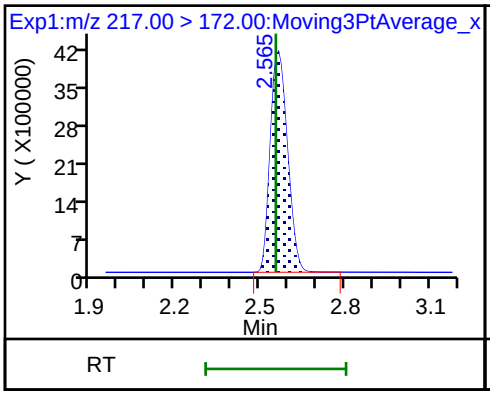
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1

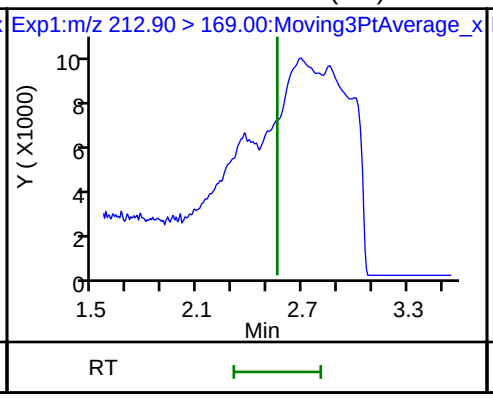
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

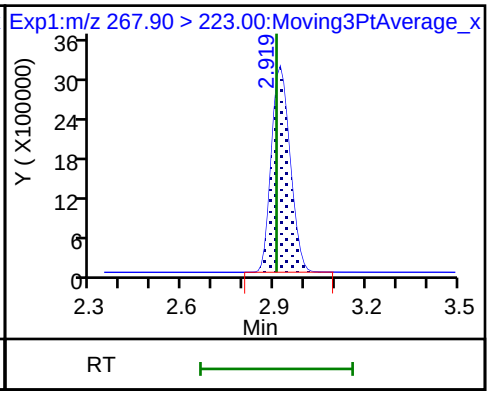
D 1 13C4 PFBA



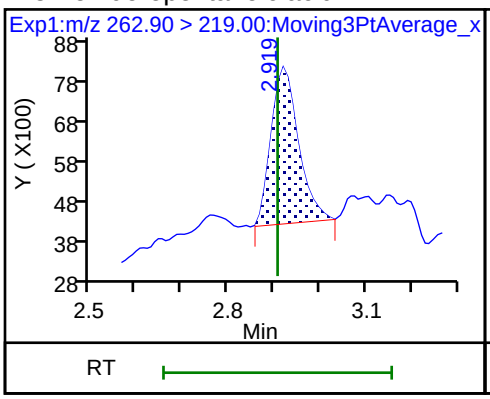
2 Perfluorobutanoic acid (ND)



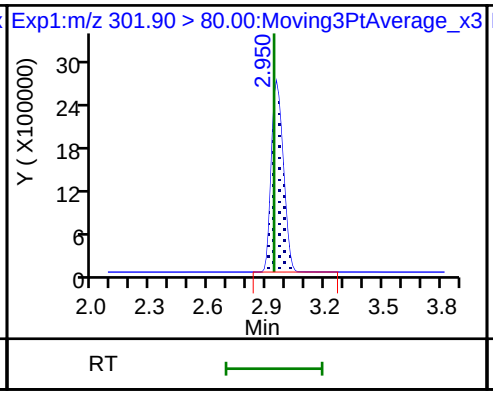
D 4 13C5 PFPeA



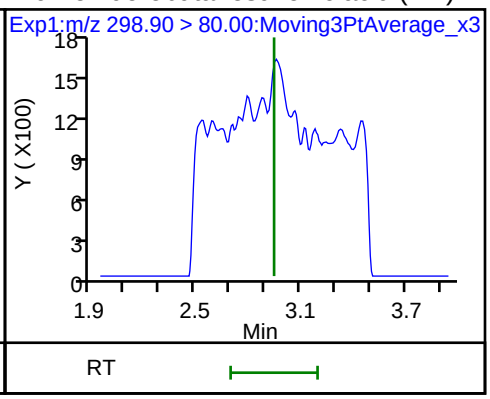
5 Perfluoropentanoic acid



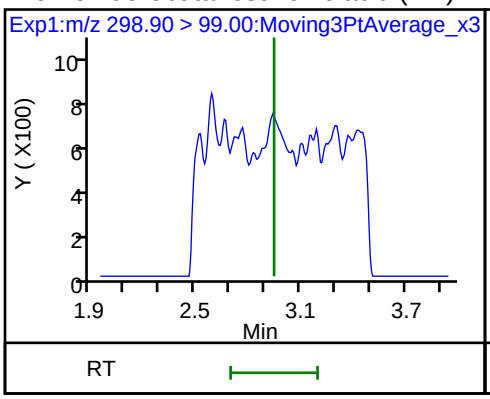
D 9 13C3 PFBS



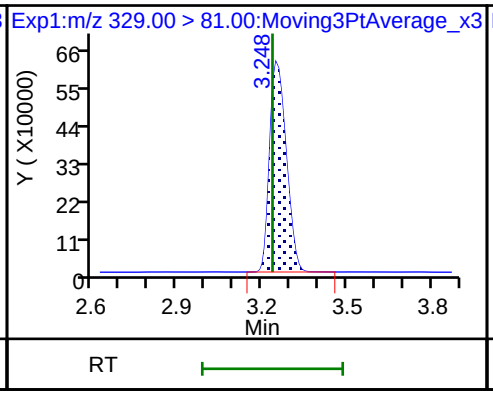
6 Perfluorobutanesulfonic acid (ND)



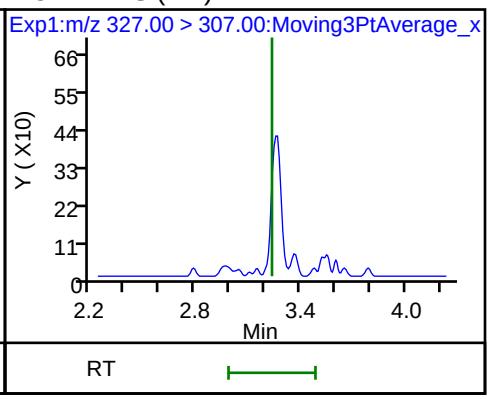
6 Perfluorobutanesulfonic acid (ND)



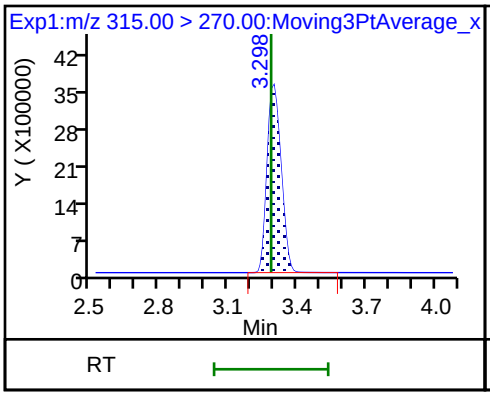
D 7 M2-4:2 FTS



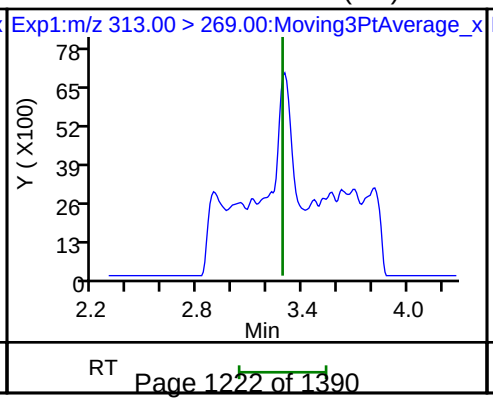
8 4:2 FTS (ND)



D 11 13C2 PFHxA



10 Perfluorohexanoic acid (ND)



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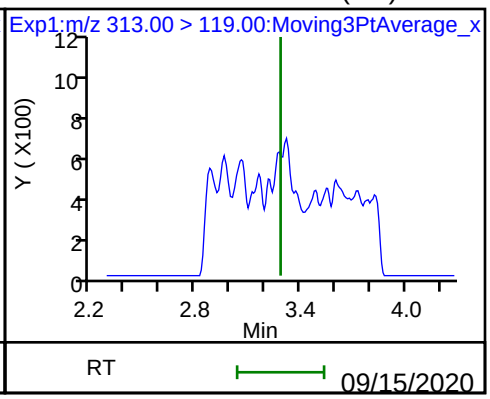
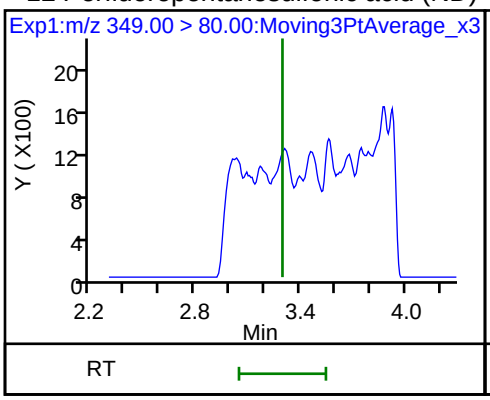
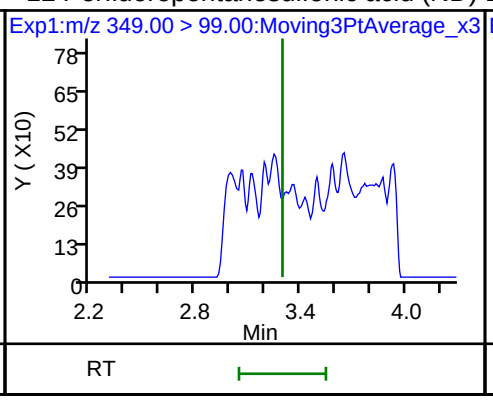


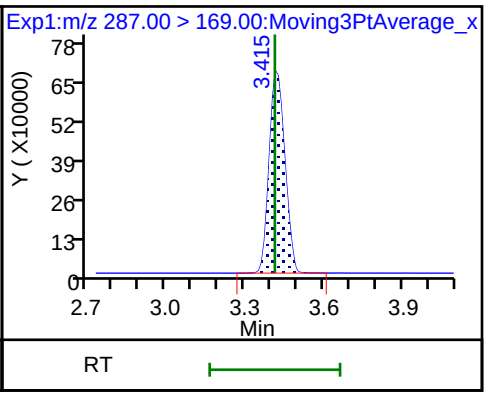
12 Perfluoropentanesulfonic acid (ND)



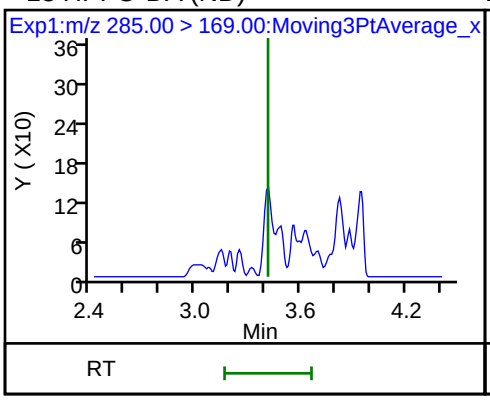
12 Perfluoropentanesulfonic acid (ND)



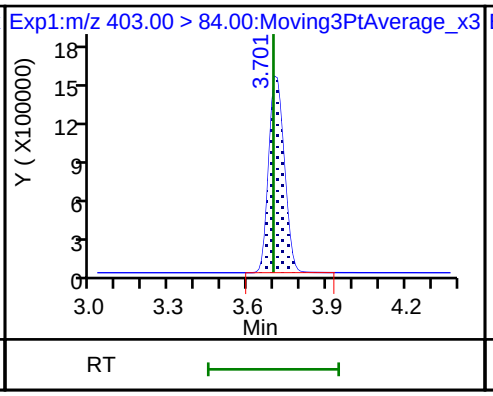
D 14 13C3 HFPO-DA



13 HPFO-DA (ND)



D 17 18O2 PFHxS



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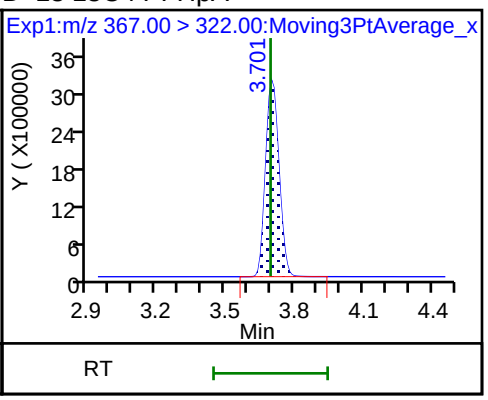
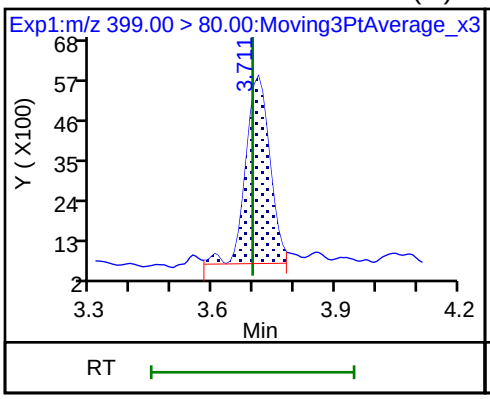
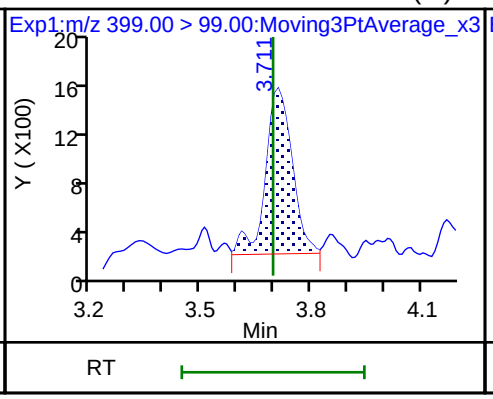


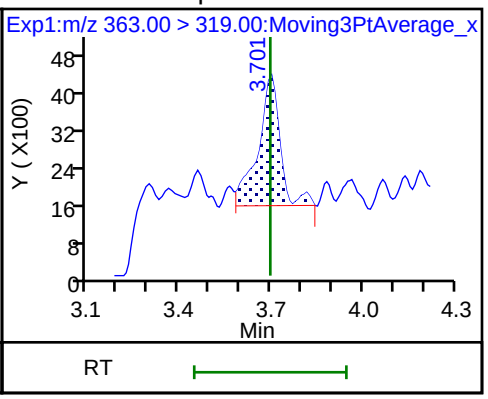
15 Perfluorohexanesulfonic acid (M)



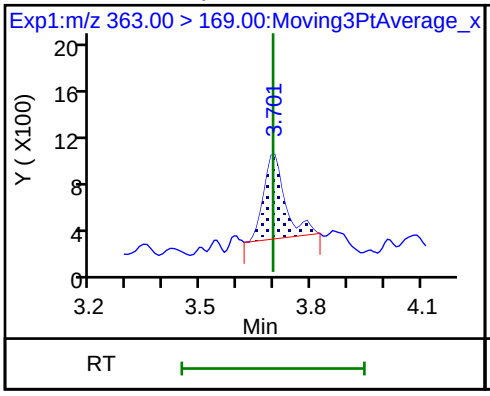
15 Perfluorohexanesulfonic acid (M)



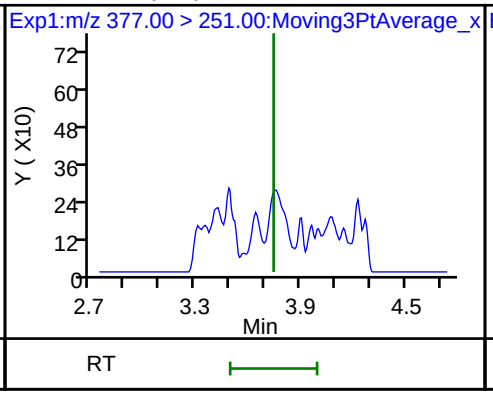
16 Perfluoroheptanoic acid



16 Perfluoroheptanoic acid



19 DONA (ND)



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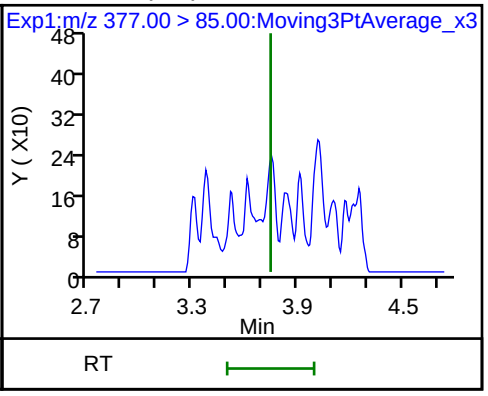
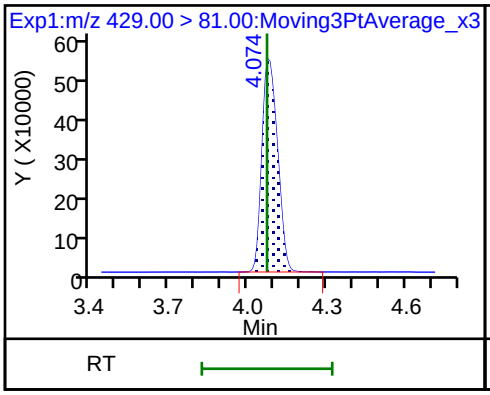
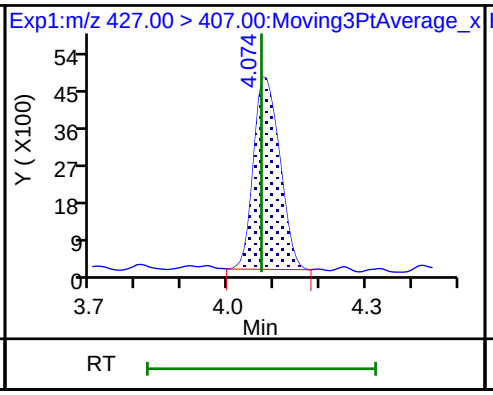


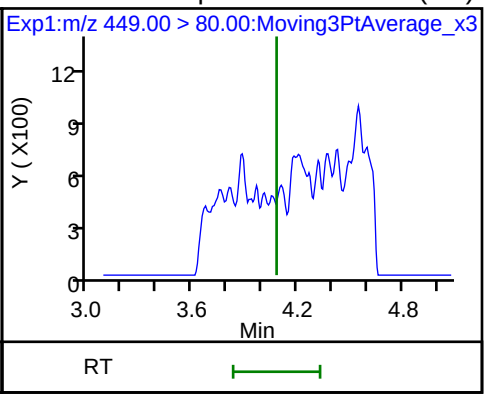
D 20 M2-6:2 FTS



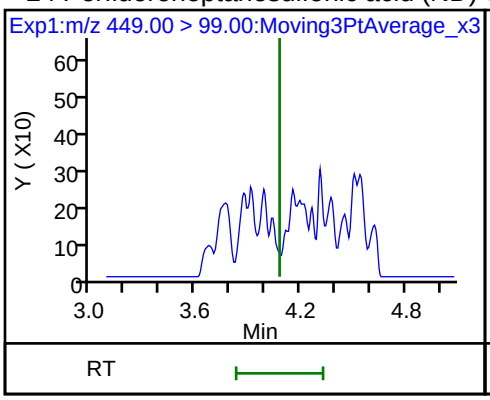
21 6:2 FTS



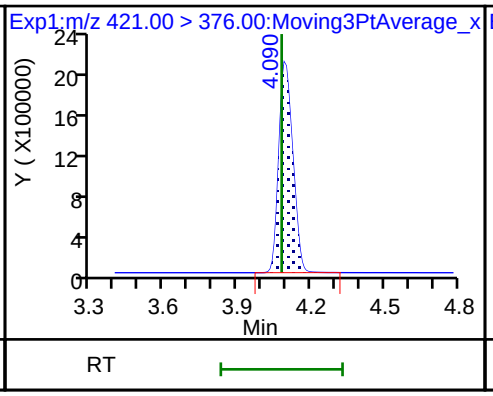
24 Perfluoroheptanesulfonic acid (ND)



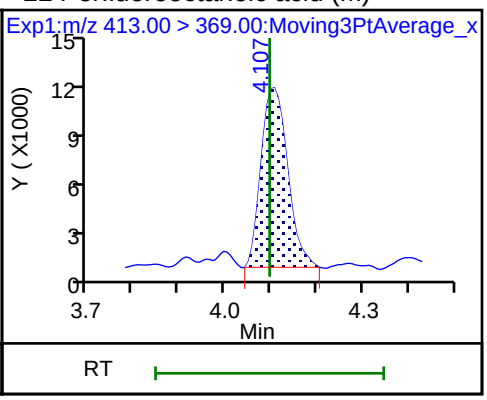
24 Perfluoroheptanesulfonic acid (ND)



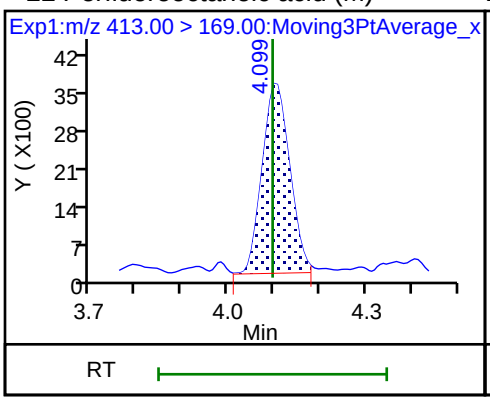
$ 26 13C8 PFOA



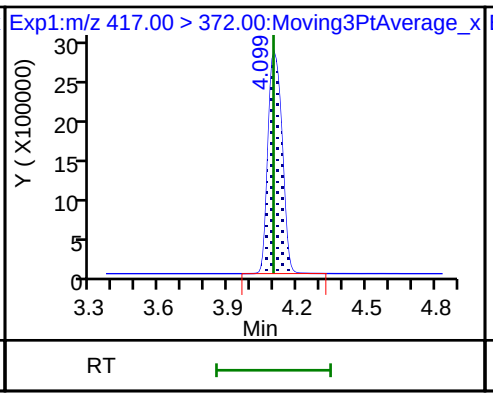
22 Perfluorooctanoic acid (M)



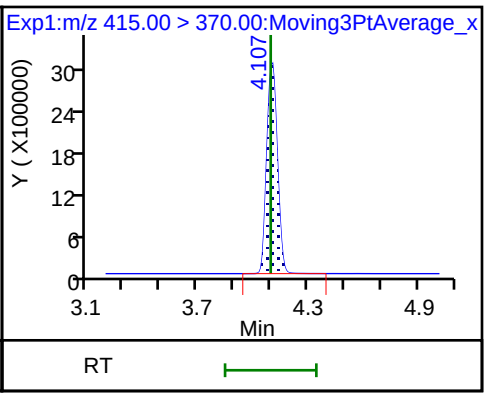
22 Perfluorooctanoic acid (M)



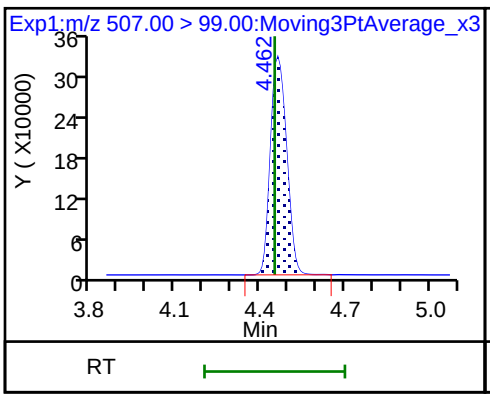
D 25 13C4 PFOA



* 23 13C2 PFOA



$ 28 13C8 PFOS



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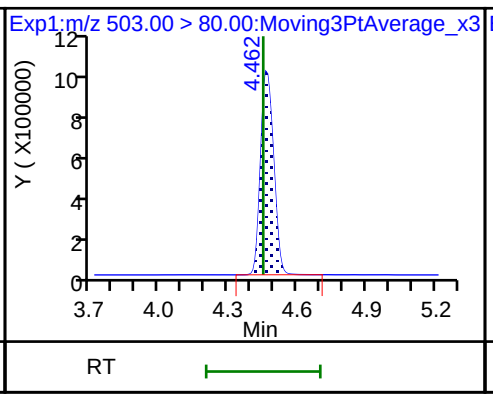
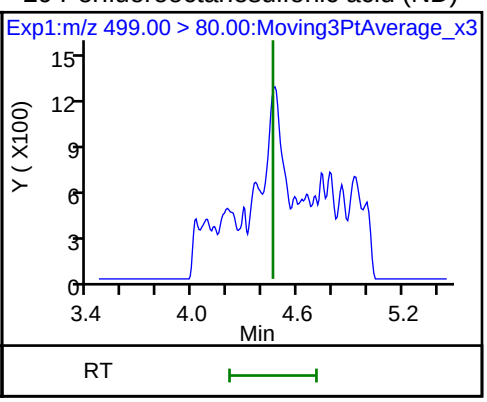


29 Perfluorooctanesulfonic acid (ND)



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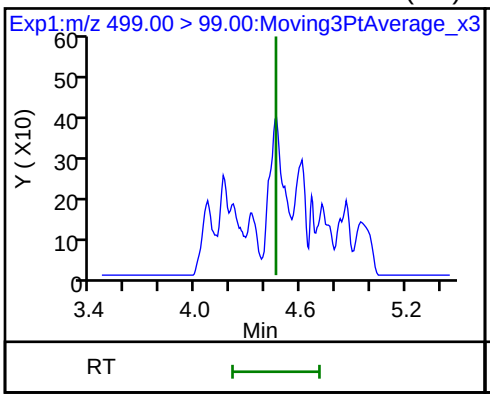
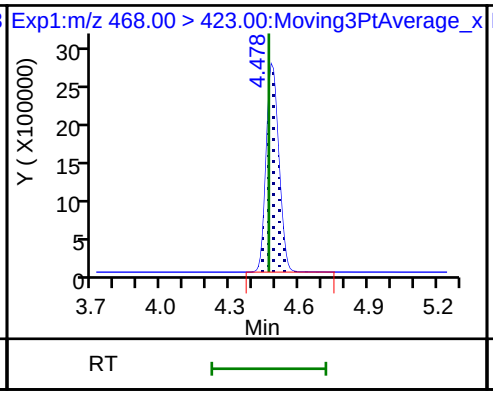
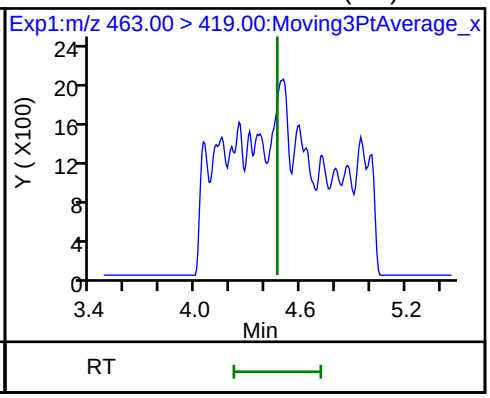


D 30 13C5 PFNA



31 Perfluorononanoic acid (ND)



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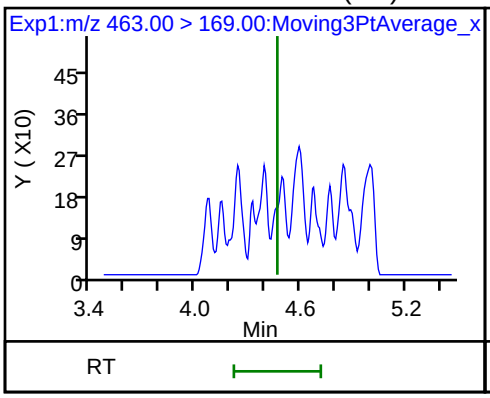
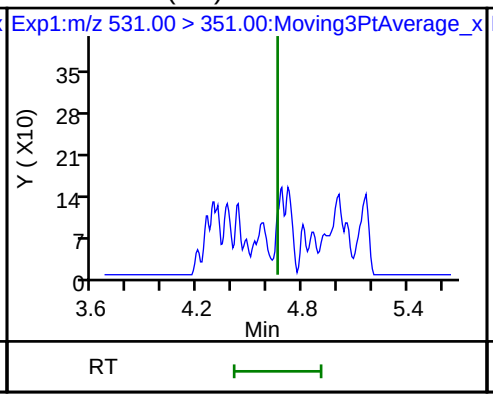
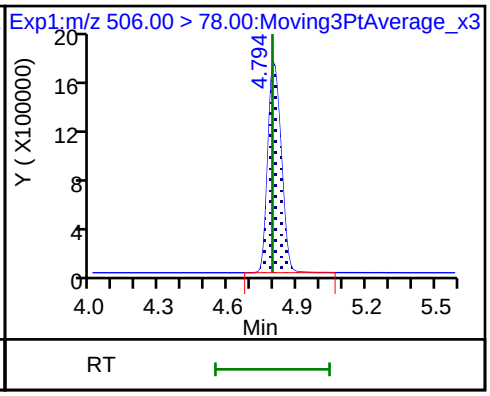


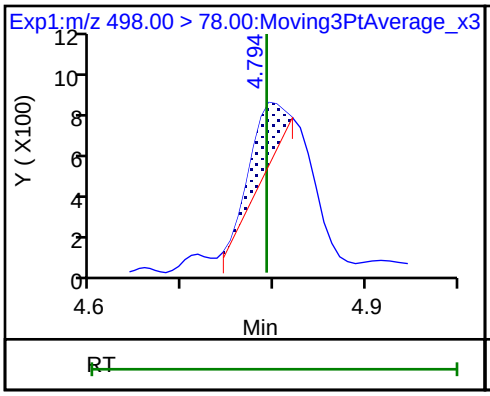
32 9ClFOS (ND)



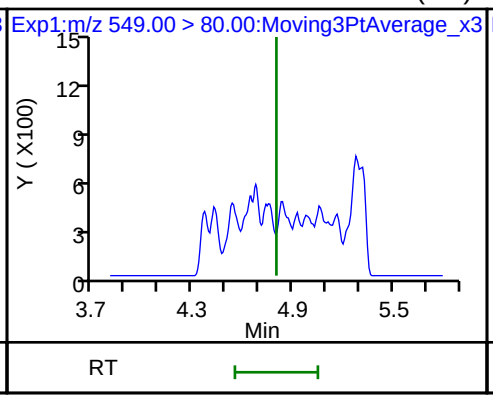
D 33 13C8 FOSA



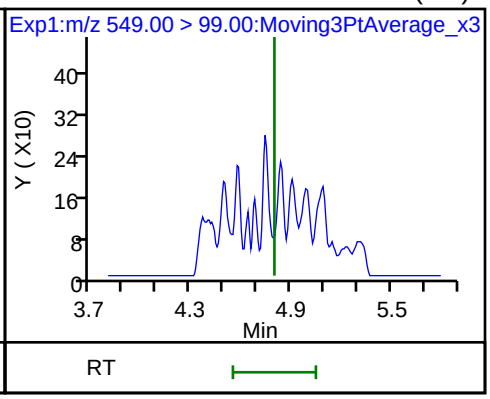
34 Perfluorooctanesulfonamide



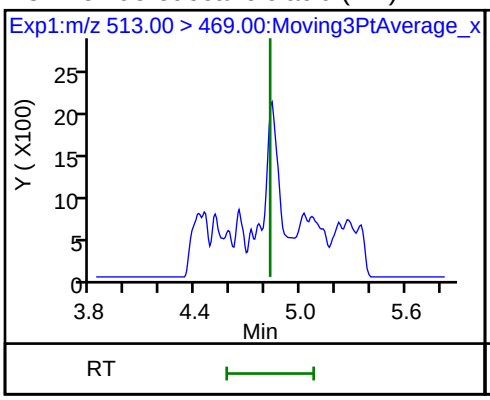
35 Perfluorononanesulfonic acid (ND)



35 Perfluorononanesulfonic acid (ND)



37 Perfluorodecanoic acid (ND)



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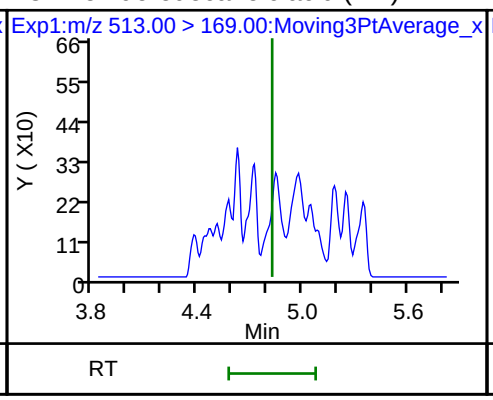
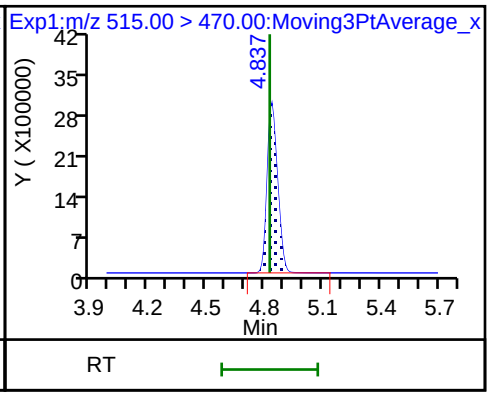
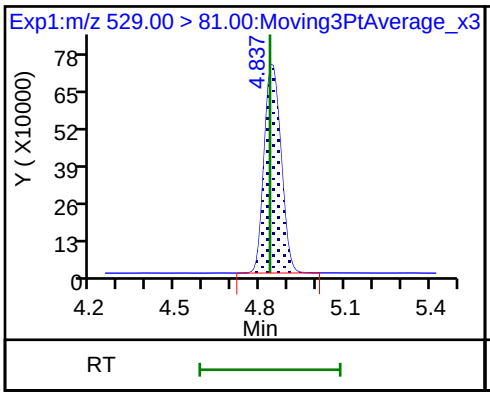


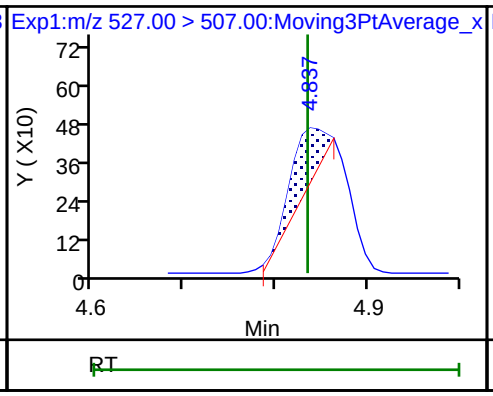
D 39 13C2 PFDA



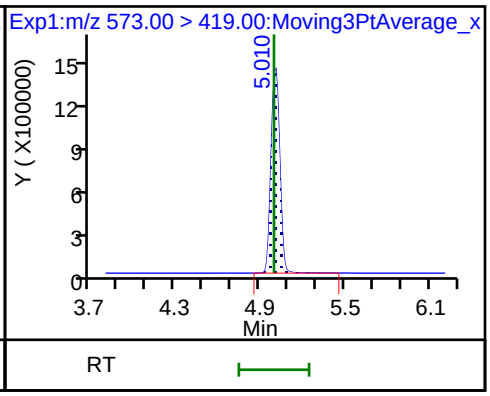
D 38 M2-8:2 FTS



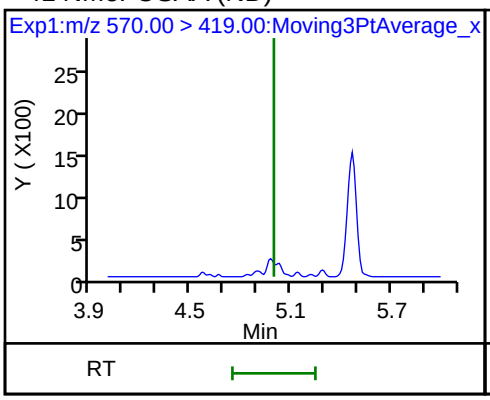
36 8:2 FTS



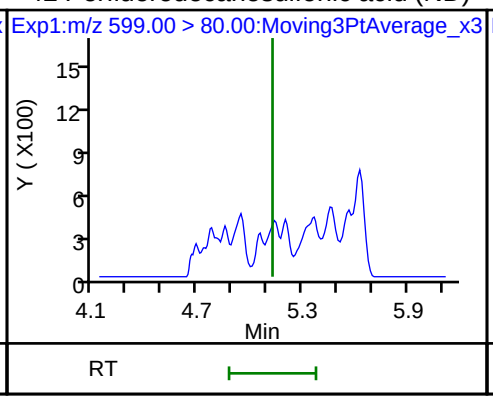
D 40 d3-NMeFOSAA



41 NMeFOSAA (ND)



42 Perfluorodecanesulfonic acid (ND)



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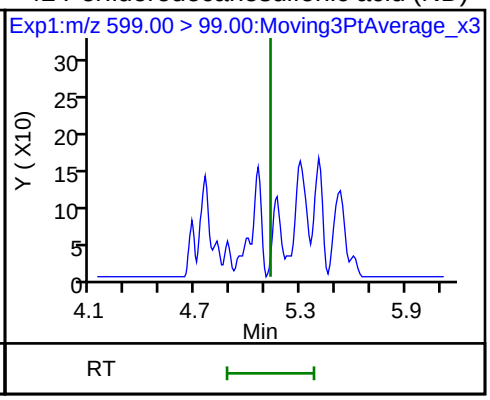
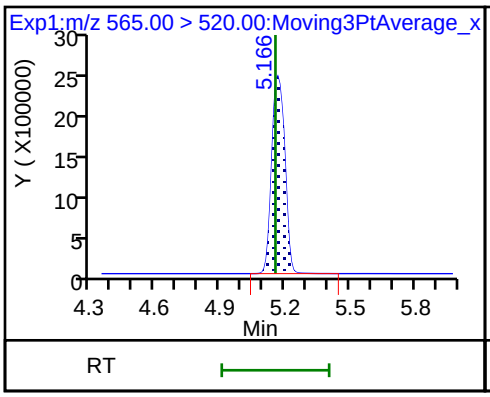
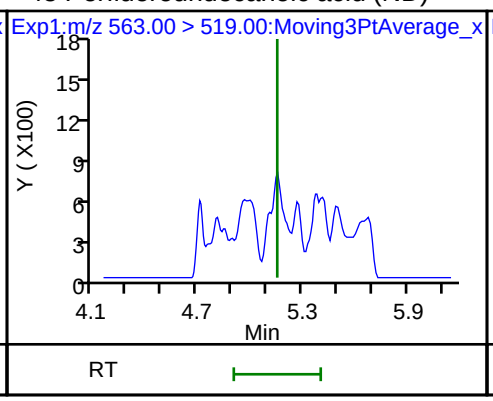


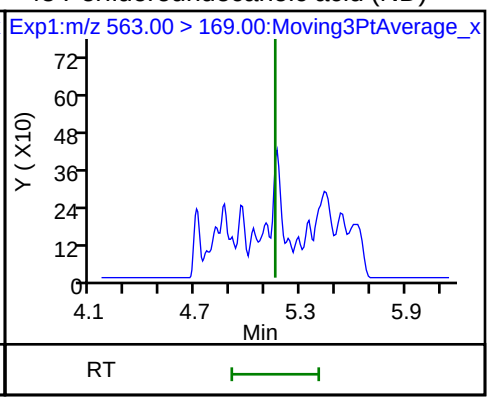
D 43 13C2 PFUnA



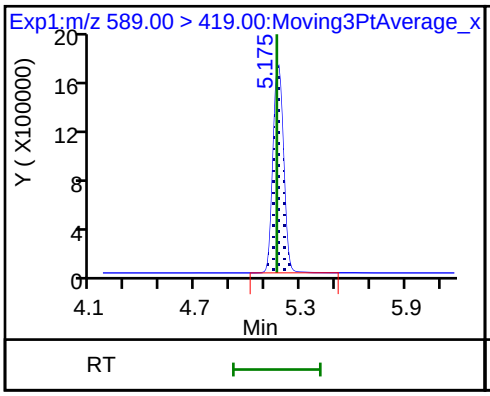
45 Perfluoroundecanoic acid (ND)



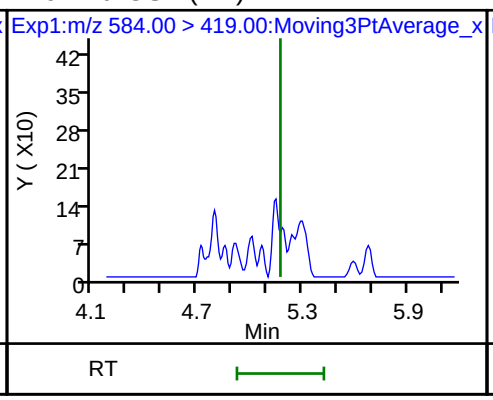
45 Perfluoroundecanoic acid (ND)



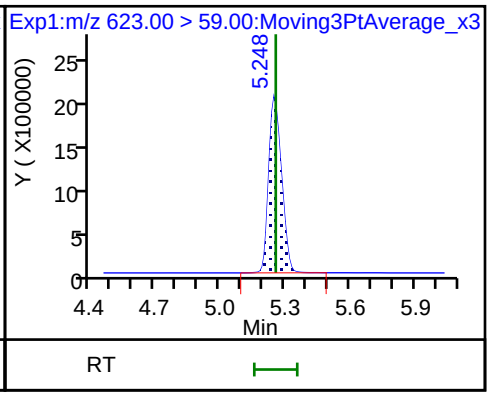
D 44 d5-NEtFOSAA



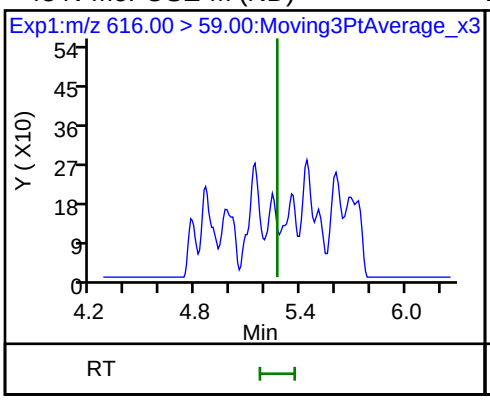
46 NEtFOSA (ND)



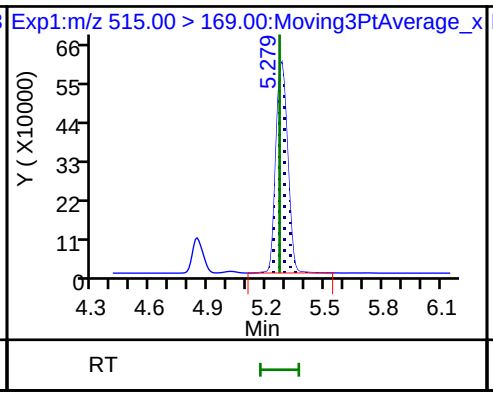
D 47 d7-N-MeFOSE-M



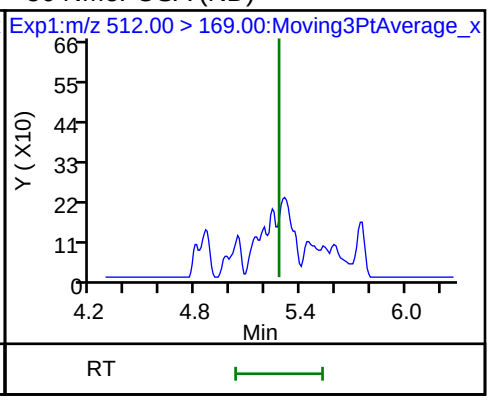
48 N-MeFOSE-M (ND)



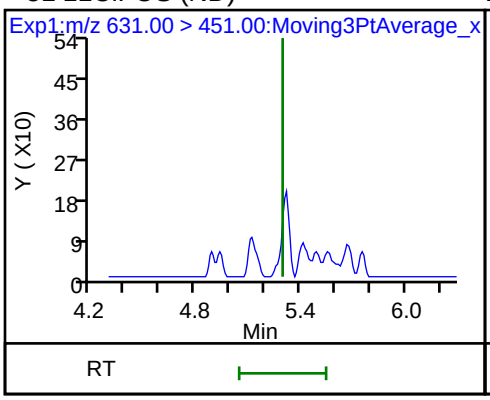
D 49 d-N-MeFOSA-M



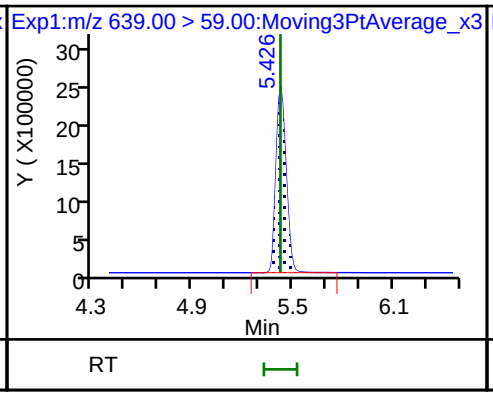
50 NMeFOSA (ND)



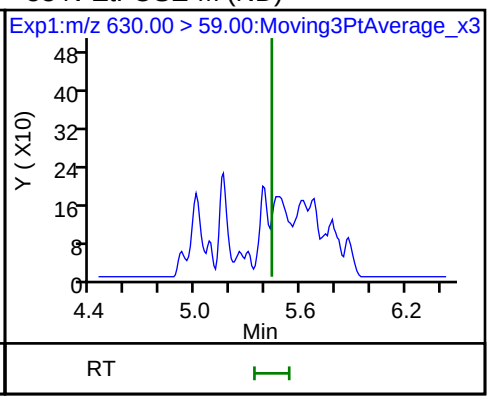
51 11ClFOS (ND)



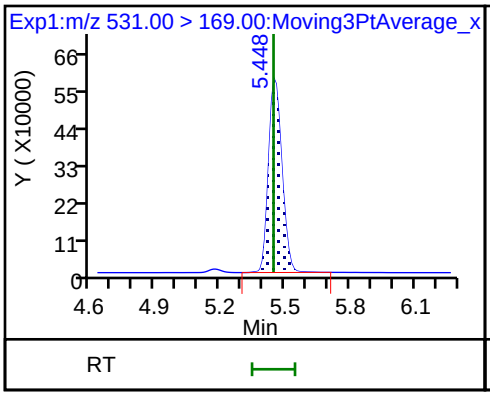
D 52 d9-N-EtFOSE-M



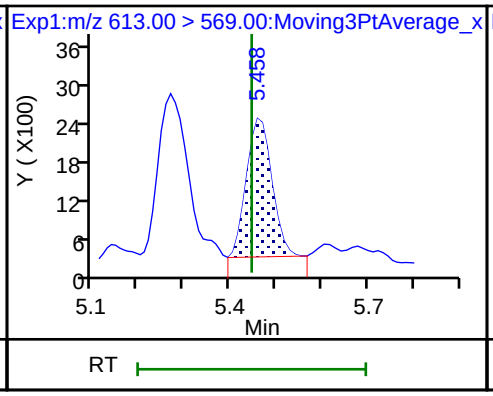
53 N-EtFOSE-M (ND)



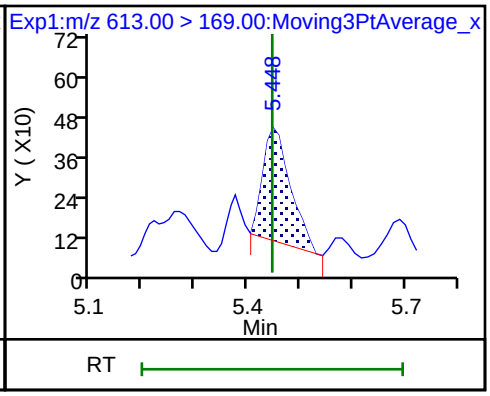
D 54 d-N-EtFOSA-M



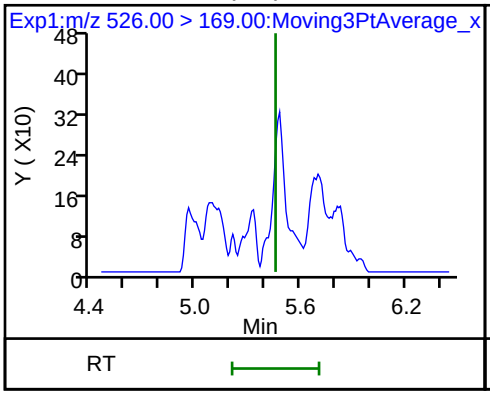
57 Perfluorododecanoic acid



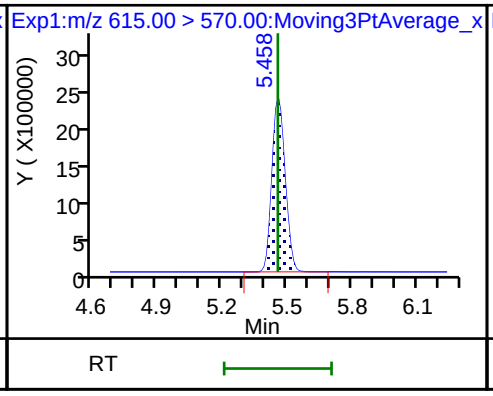
57 Perfluorododecanoic acid



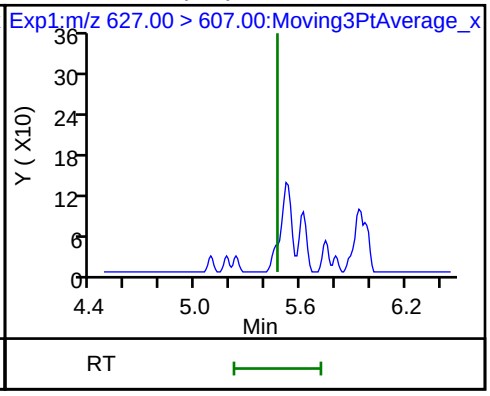
55 N-EtFOSA-M (ND)



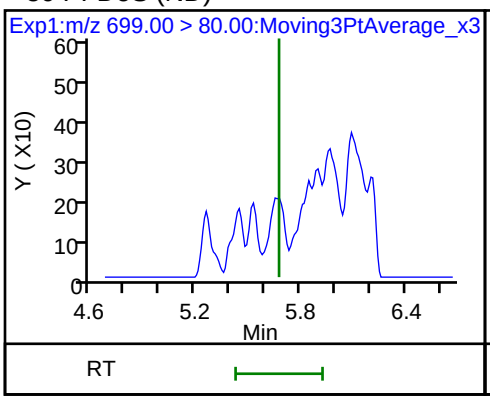
D 56 13C2 PFDoA



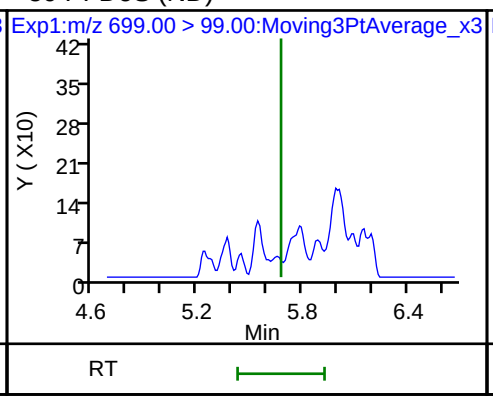
58 10:2 FTS (ND)



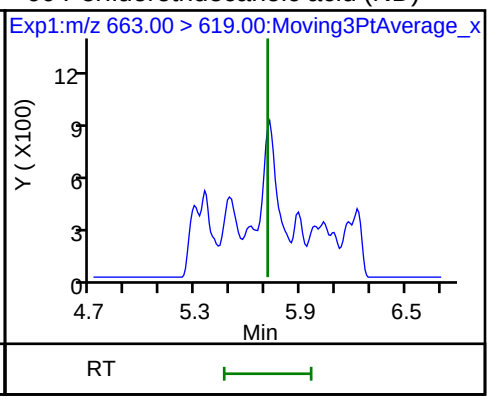
59 PFDoS (ND)



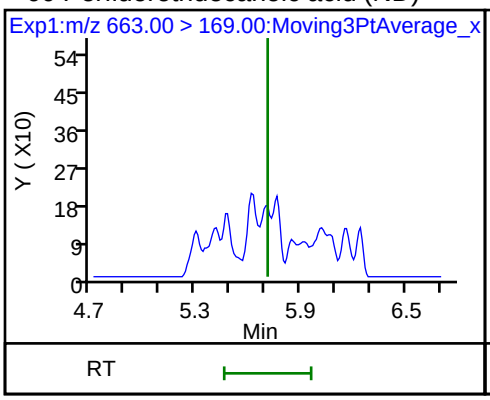
59 PFDoS (ND)



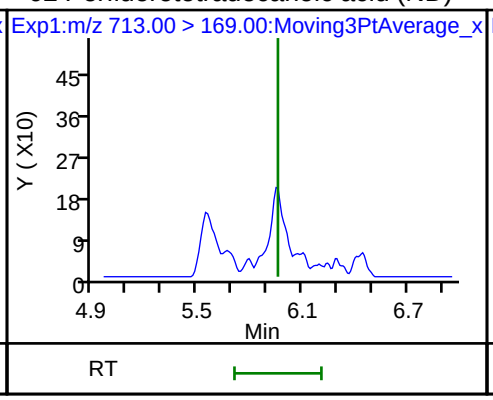
60 Perfluorotridecanoic acid (ND)



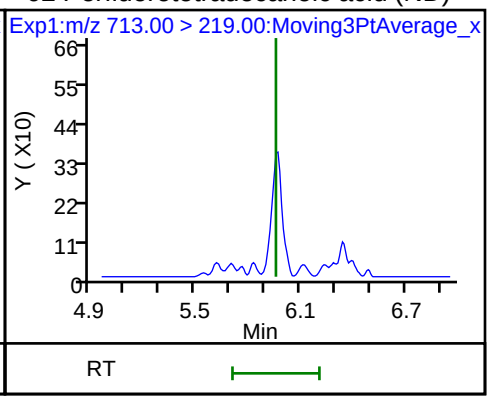
60 Perfluorotridecanoic acid (ND)



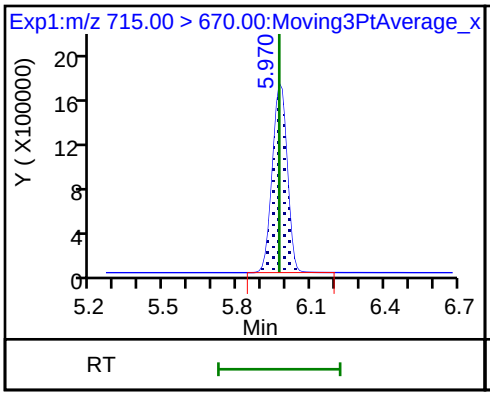
62 Perfluorotetradecanoic acid (ND)



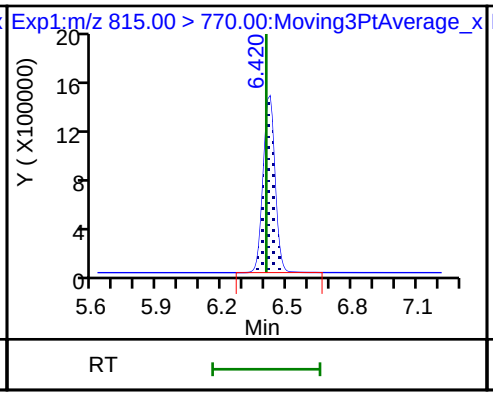
62 Perfluorotetradecanoic acid (ND)



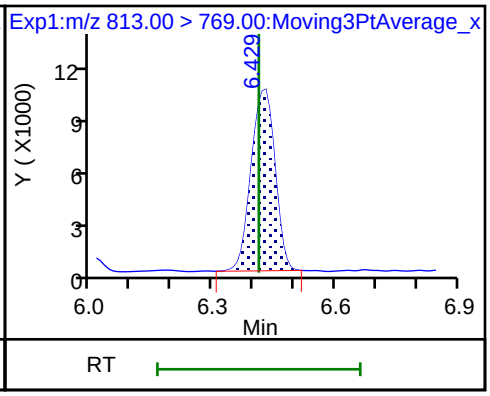
D 61 13C2 PFTeDA



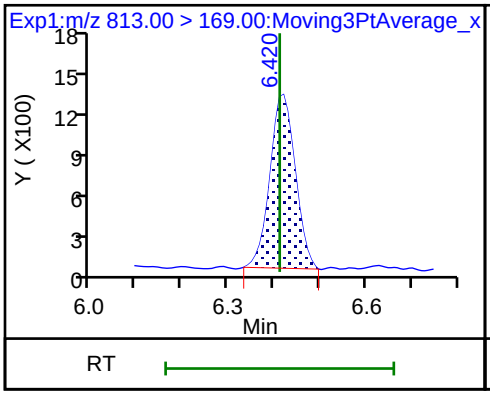
D 64 13C2 PFHxDA



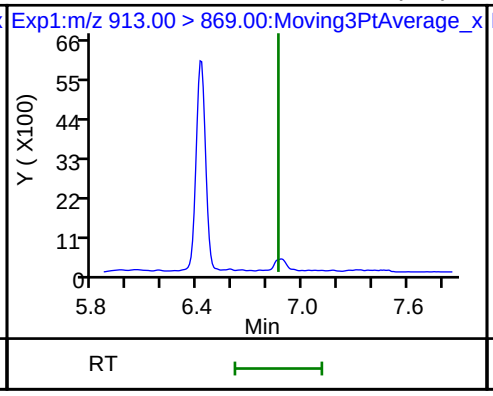
63 Perfluorohexadecanoic acid



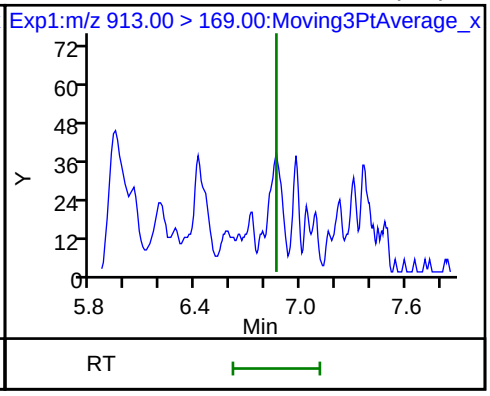
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Sacramento

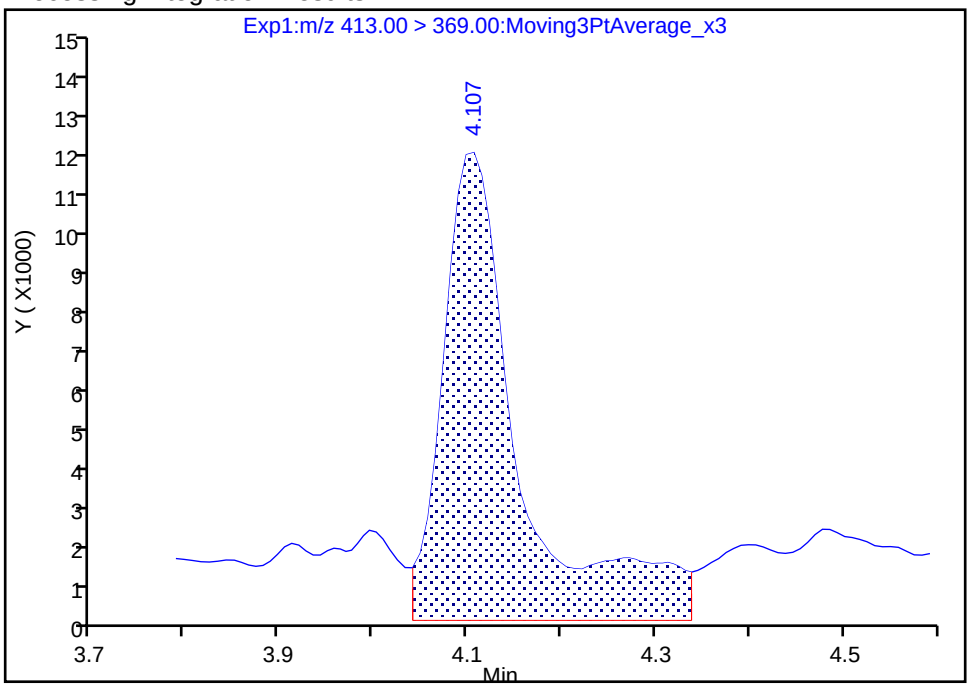
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_016.d
Injection Date: 10-Sep-2020 12:35:56 Instrument ID: A18
Lims ID: CCB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

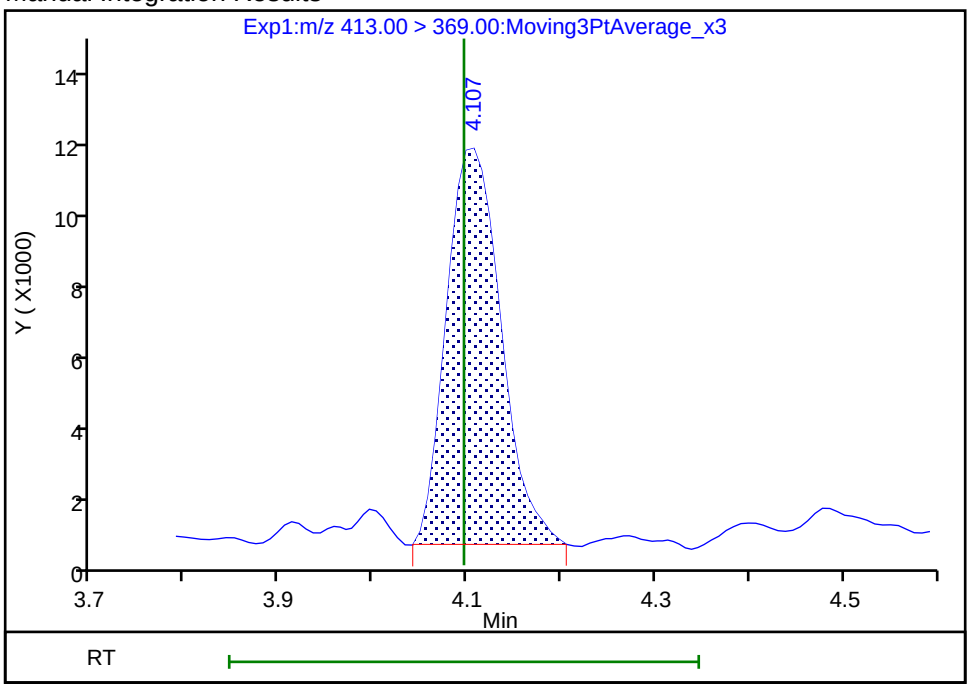
RT: 4.11
Area: 66218
Amount: 0.013429
Amount Units: ng/ml

Processing Integration Results



RT: 4.11
Area: 41784
Amount: 0.008474
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangm, 10-Sep-2020 13:19:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

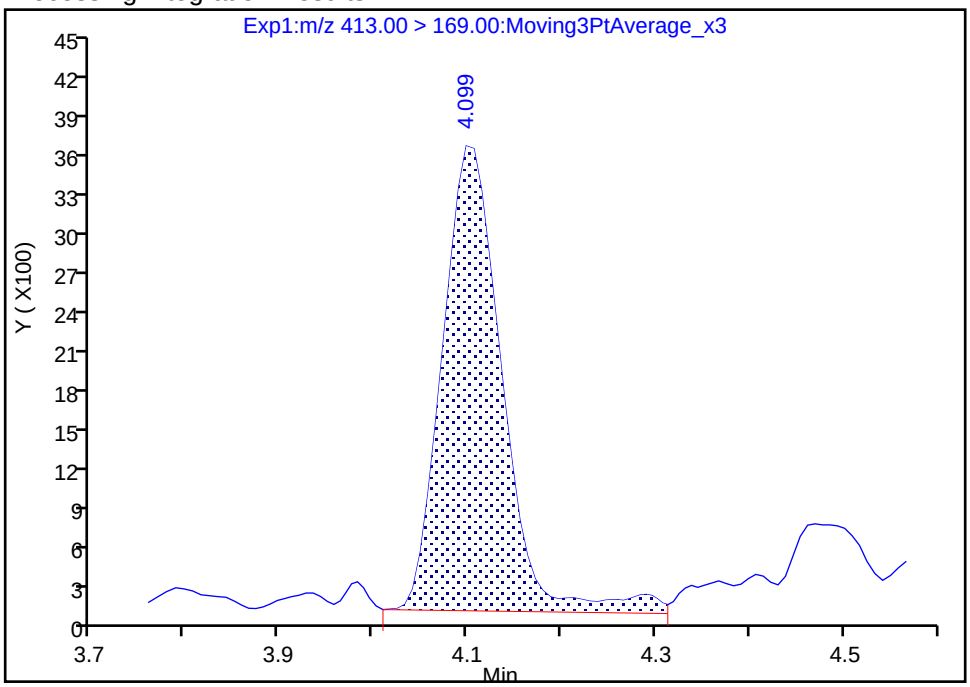
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_016.d
Injection Date: 10-Sep-2020 12:35:56 Instrument ID: A18
Lims ID: CCB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

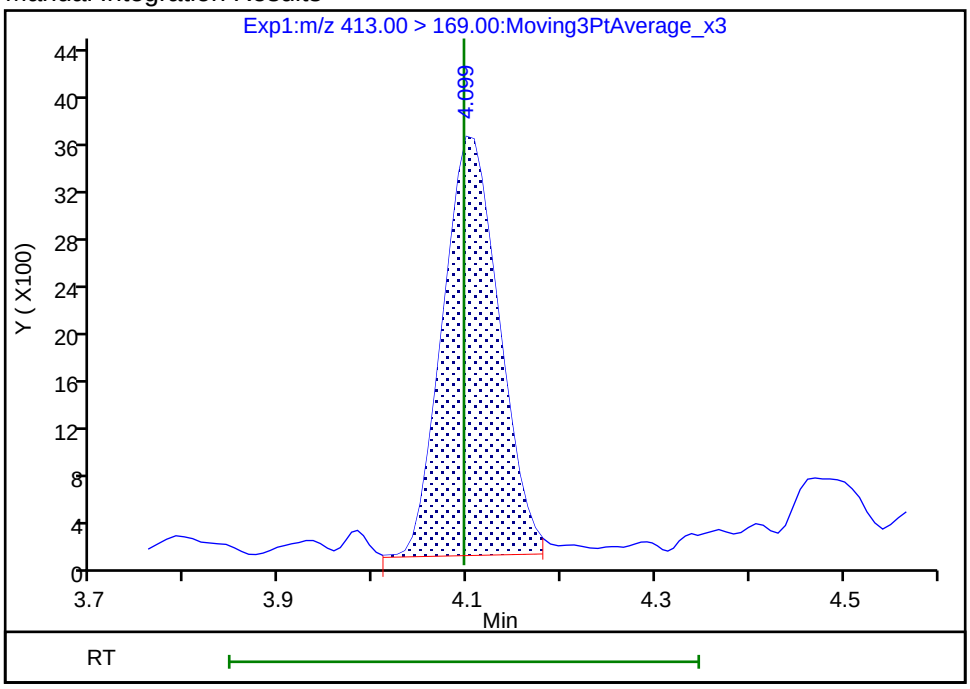
Processing Integration Results

RT: 4.10
Area: 15528
Amount: 0.013429
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 14611
Amount: 0.008474
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:19:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

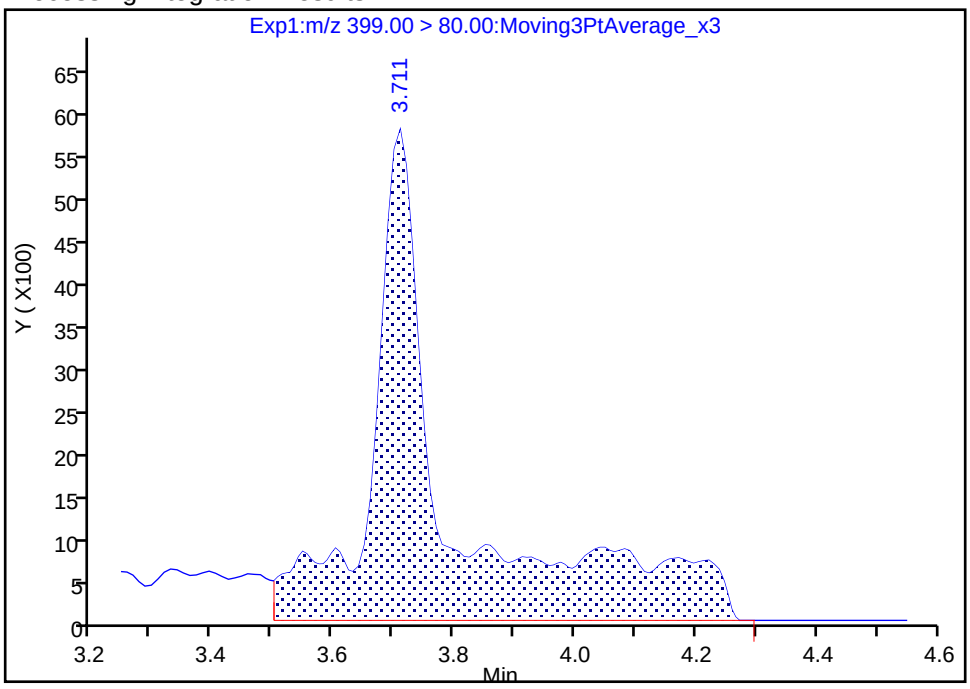
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_016.d
Injection Date: 10-Sep-2020 12:35:56 Instrument ID: A18
Lims ID: CCB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

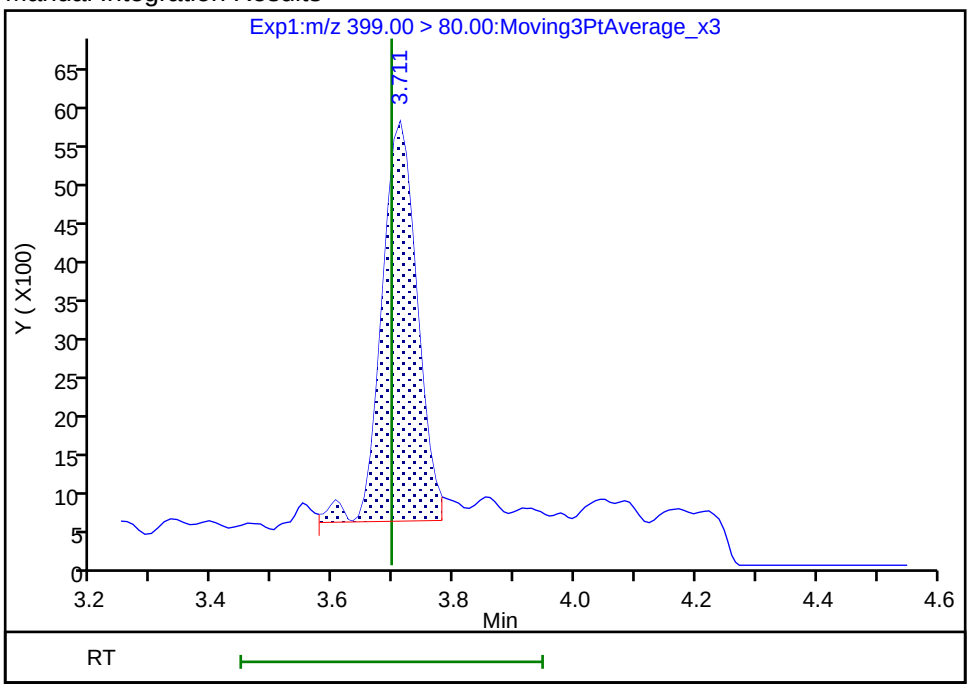
Processing Integration Results

RT: 3.71
Area: 51993
Amount: 0.017136
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 21244
Amount: 0.007002
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:19:02
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

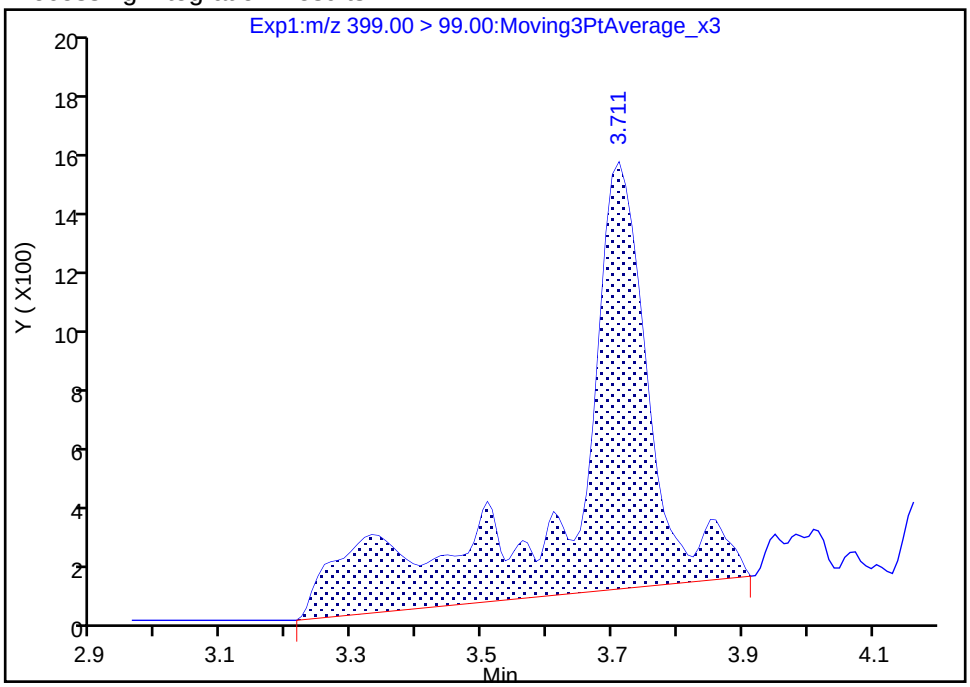
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103001.b\2020.09.10_A18_PFC_AAA_016.d
Injection Date: 10-Sep-2020 12:35:56 Instrument ID: A18
Lims ID: CCB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

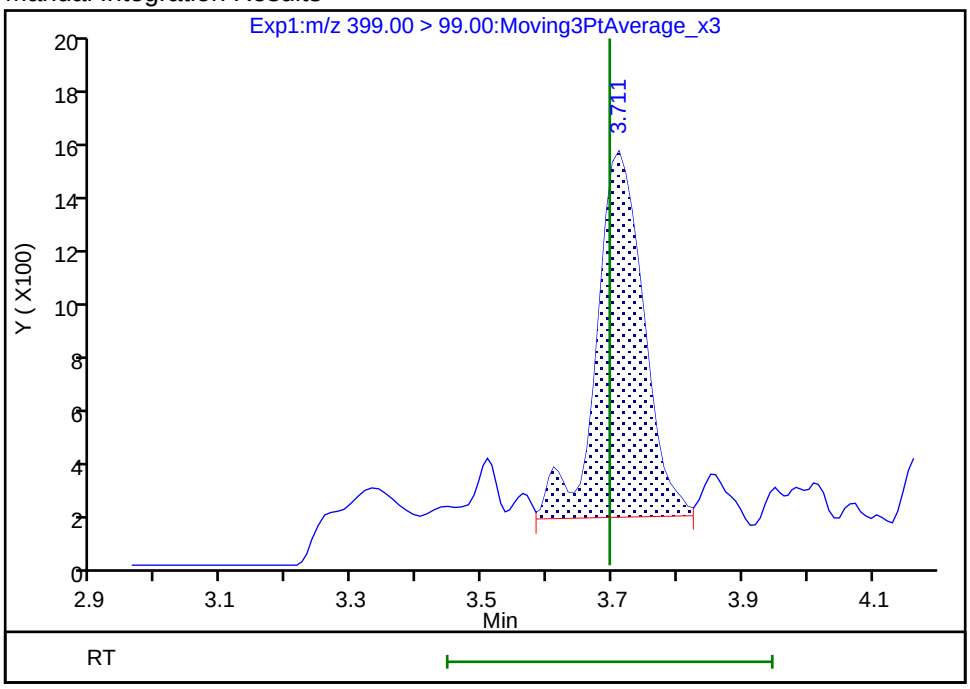
Processing Integration Results

RT: 3.71
Area: 12346
Amount: 0.017136
Amount Units: ng/ml



Manual Integration Results

RT: 3.71
Area: 6718
Amount: 0.007002
Amount Units: ng/ml



Reviewer: vangm, 10-Sep-2020 13:19:07
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-411300/1

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_004.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/11/2020 09:30

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411300 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0073	U	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00840	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-411300/1

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_004.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/11/2020 09:30

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411300 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	101		25-150
STL01893	13C5 PFPeA	96		25-150
STL00993	13C2 PFHxA	97		25-150
STL01892	13C4 PFHpA	103		25-150
STL00990	13C4 PFOA	101		25-150
STL00995	13C5 PFNA	100		25-150
STL00996	13C2 PFDA	96		25-150
STL00997	13C2 PFUnA	103		25-150
STL00998	13C2 PFDoA	99		25-150
STL02116	13C2 PFTeDA	96		25-150
STL02337	13C3 PFBS	104		25-150
STL00994	18O2 PFHxS	104		25-150
STL00991	13C4 PFOS	104		25-150
STL01056	13C8 FOSA	106		25-150
STL02118	d3-NMeFOSAA	88		25-150
STL02117	d5-NEtFOSAA	94		25-150
STL02279	M2-6:2 FTS	94		25-150
STL02280	M2-8:2 FTS	87		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 11-Sep-2020 09:30:40 ALS Bottle#: 41 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCB (53)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:27:18 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 10:20:42
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A9\20200911-103075.b\2020.09.10_A9_PFC_A_030.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.907	1.900	0.007	0.565	8613596	2.52		101	3065	
D 4 13C5 PFPeA										
267.90 > 223.00	2.214	2.206	0.008	0.656	6903031	2.40		95.8	2718	
3 Perfluoropentanoic acid										M
262.90 > 219.00	2.214	2.206	0.008	1.000	6517	0.002319			0.5	M
D 6 13C3 PFBS										
301.90 > 80.00	2.243	2.233	0.010	0.664	13739534	2.41		104	4424	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.536	2.525	0.011	0.751	1113786	1.97		84.4	712	
D 10 13C2 PFHxA										
315.00 > 270.00	2.568	2.568	0.0	0.760	6509734	2.43		97.2	2596	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.696	2.686	0.010	0.798	4628402	2.52		101	3915	
D 15 13C4 PFHpA										
367.00 > 322.00	2.968	2.957	0.011	0.879	6712047	2.57		103	3930	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.980	2.963	0.017	1.004	28116	0.008400	Target=3.30		9.8	M
399.00 > 99.00	2.980	2.963	0.017	1.004	8558		3.29(1.65-4.95)		7.5	M
D 17 18O2 PFHxS										
403.00 > 84.00	2.968	2.963	0.005	0.879	6711183	2.46		104	3820	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.353	3.345	0.008	0.993	1091617	2.24		94.3	1400	
22 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.353	3.345	0.008	1.000	3145	0.004438			7.0	M
$ 21 13C8 PFOA										
421.00 > 376.00	3.368	3.361	0.007	0.997	5111314	2.50		102	5518	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorooctanoic acid										M
413.00 > 369.00	3.377	3.368	0.009	1.000	26237	0.009851	Target=2.45		5.5	M
413.00 > 169.00	3.377	3.368	0.009	1.000	9723		2.70(1.23-3.68)		10.7	
* 25 13C2 PFOA										
415.00 > 370.00	3.377	3.368	0.009		6327562	2.50			4998	
D 26 13C4 PFOA										
417.00 > 372.00	3.377	3.368	0.009	1.000	6173624	2.53		101	4052	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.753	3.744	0.009	1.000	11834	0.003852	Target=4.31		2.8	M
499.00 > 99.00	3.753	3.744	0.009	1.000	4773		2.48(2.16-6.47)		12.8	M
D 31 13C4 PFOS										
503.00 > 80.00	3.753	3.744	0.009	1.111	7062363	2.49		104	1809	
$ 27 13C8 PFOS										
507.00 > 99.00	3.753	3.744	0.009	1.111	1556012	2.42		101	1838	
D 29 13C5 PFNA										
468.00 > 423.00	3.772	3.754	0.018	1.117	5286309	2.49		99.7	3992	
D 36 13C8 FOSA										
506.00 > 78.00	4.092	4.083	0.009	1.212	3529616	2.64		106	2870	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.100	4.083	0.017	1.002	7449	0.001897			33.8	
D 33 13C2 PFDA										
515.00 > 470.00	4.127	4.118	0.009	1.222	6448349	2.40		95.9	5731	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.136	4.127	0.009	1.225	1241719	2.08		86.9	996	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.298	4.280	0.018	1.273	2933240	2.19		87.7	2583	
D 46 13C2 PFUnA										
565.00 > 520.00	4.452	4.444	0.008	1.318	5322405	2.57		103	4391	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.461	4.452	0.009	1.321	2098854	2.34		93.7	2240	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.546	4.538	0.008	1.346	5459256	12.7		102	4728	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.573	4.564	0.009	1.354	1576513	2.62		105	242	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.722	4.713	0.009	1.398	5909854	13.1		105	5302	
D 56 13C2 PFDoA										
615.00 > 570.00	4.748	4.732	0.016	1.406	5018786	2.46		98.5	8962	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.748	4.741	0.007	1.406	1571731	2.52		101	1128	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.260	5.253	0.007	1.558	3396158	2.39		95.6	7673	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.708	5.690	0.018	1.002	22306	0.004081	Target=4.61		66.4	
813.00 > 169.00	5.698	5.690	0.008	1.000	4128		5.40(2.31-6.92)		52.2	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.698	5.690	0.008	1.687	2347377	2.23		89.3	4427	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00053 Amount Added: 1.00 Units: mL

Report Date: 11-Sep-2020 10:27:19 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d

Injection Date: 11-Sep-2020 09:30:40 Instrument ID: A9

Lims ID: CCB

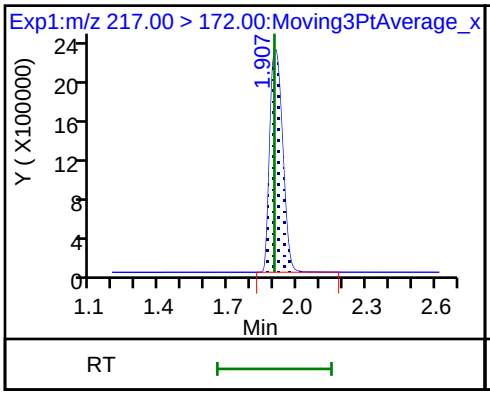
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 41 Worklist Smp#: 1

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



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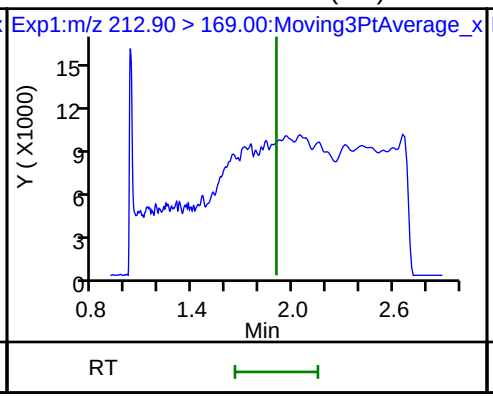
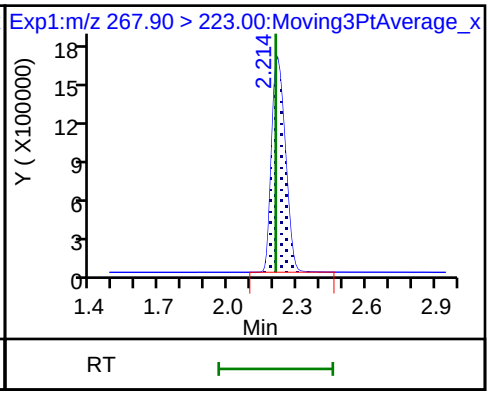


D 4 13C5 PFPeA



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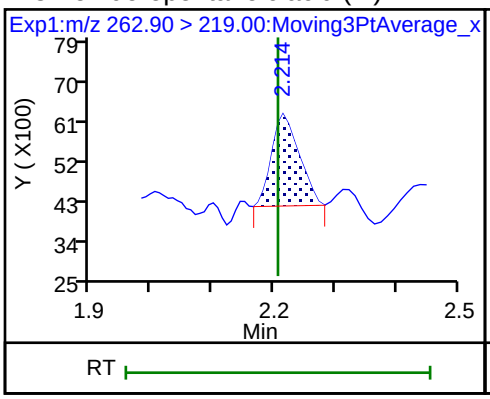
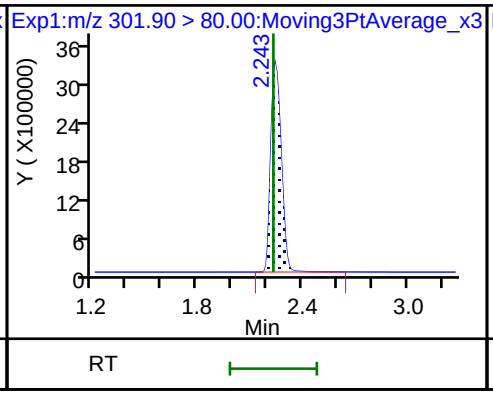


D 6 13C3 PFBS



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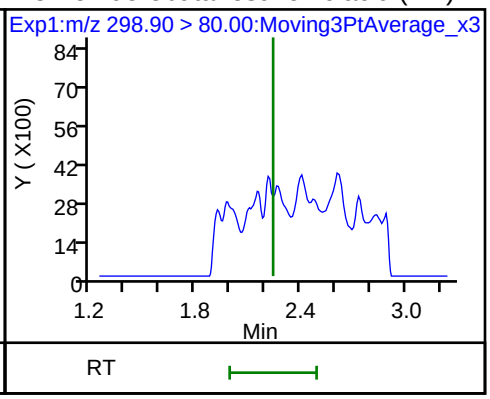
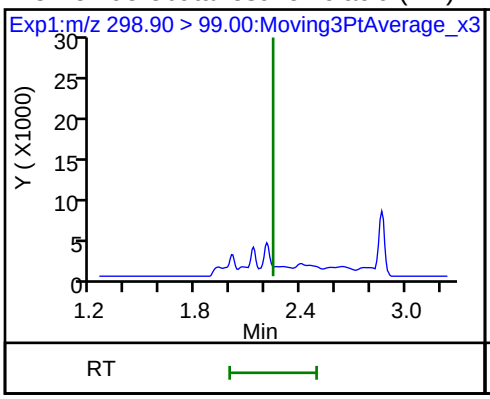
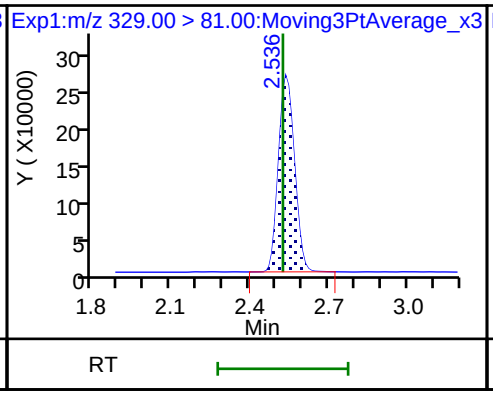


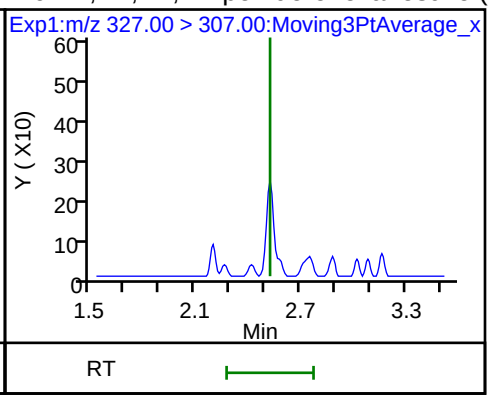
5 Perfluorobutanesulfonic acid (ND)



D 8 M2-4:2 FTS



9 1H,1H,2H,2H-perfluorohexanesulfo (ND)



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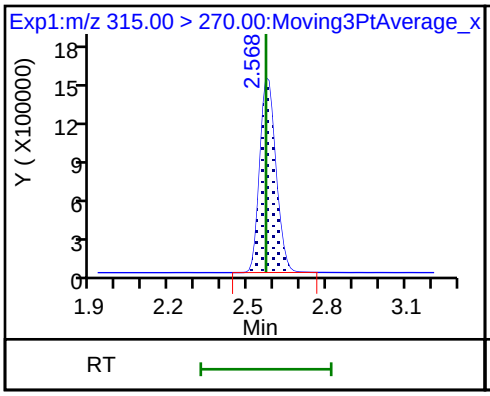

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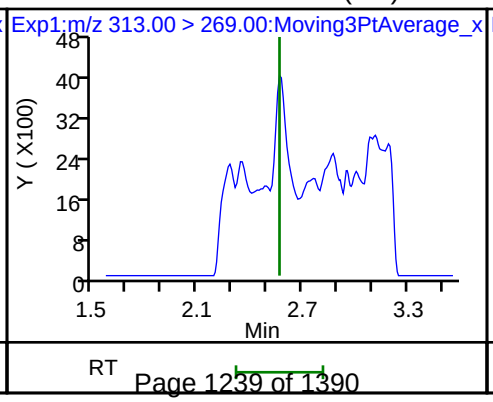
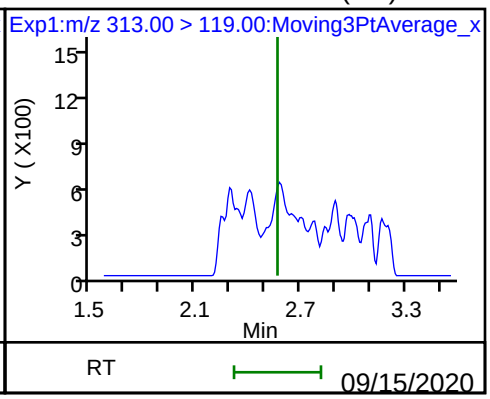
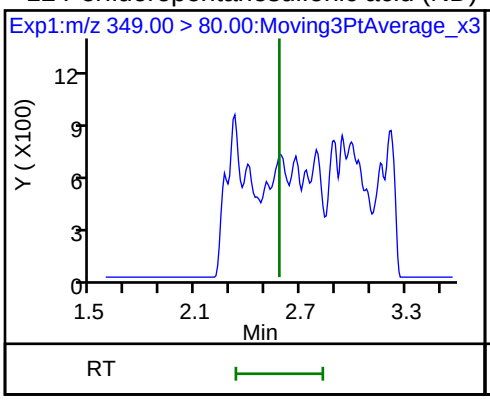


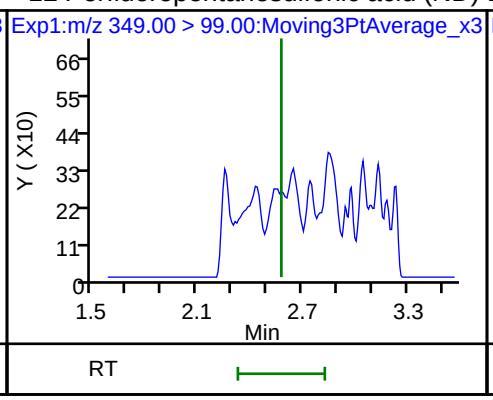
11 Perfluorohexanoic acid (ND)



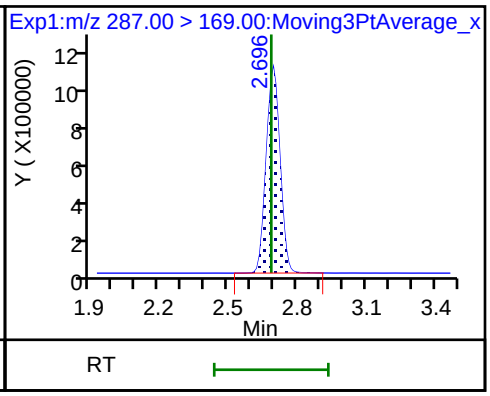
12 Perfluoropentanesulfonic acid (ND)



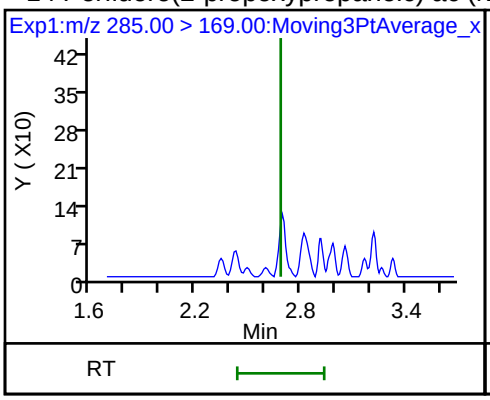
12 Perfluoropentanesulfonic acid (ND) D



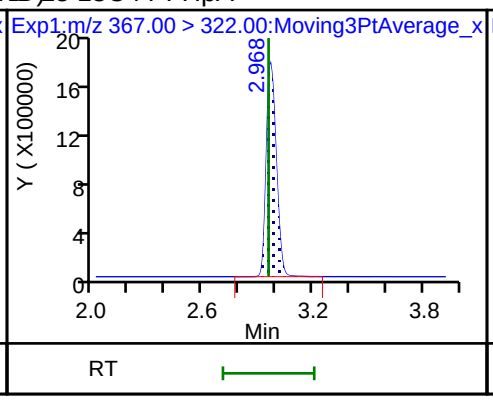
13 13C3 HFPO-DA



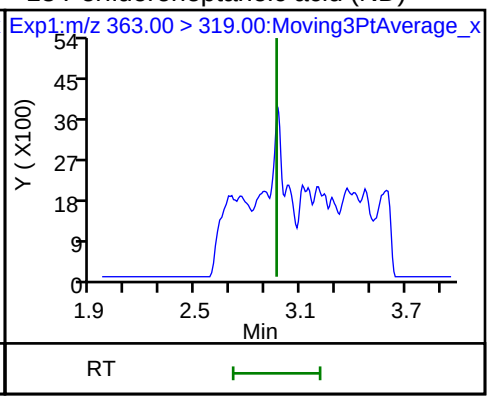
14 Perfluoro(2-propoxypropanoic) ac (ND)



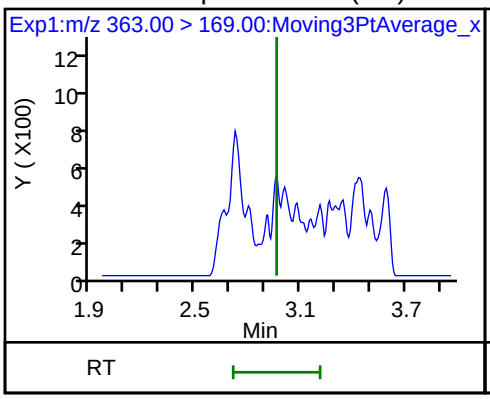
15 13C4 PFHpA



18 Perfluoroheptanoic acid (ND)



18 Perfluoroheptanoic acid (ND)



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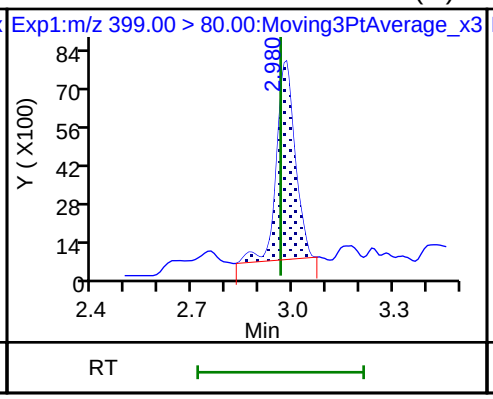
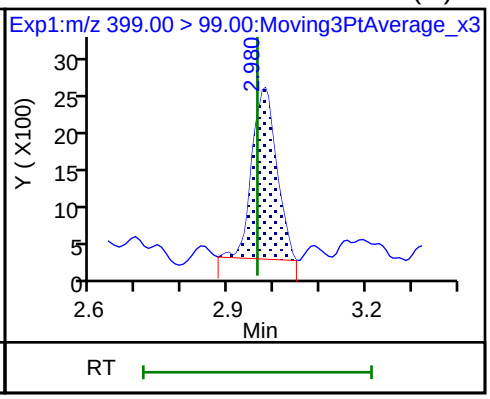
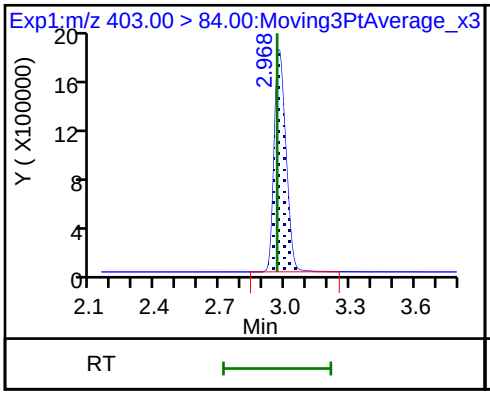


16 Perfluorohexanesulfonic acid (M)



D 17 18O2 PFHxS



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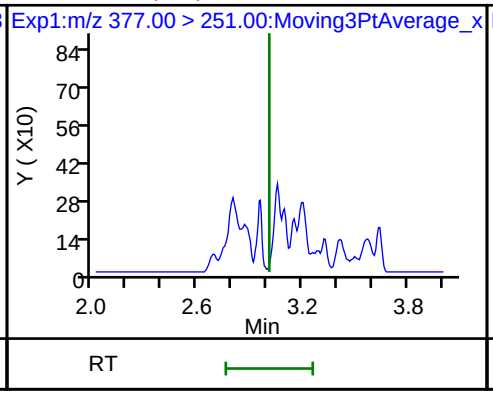

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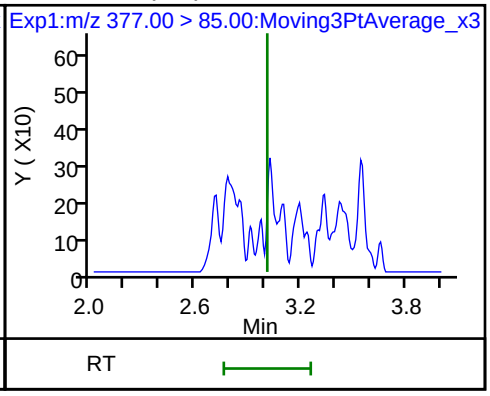
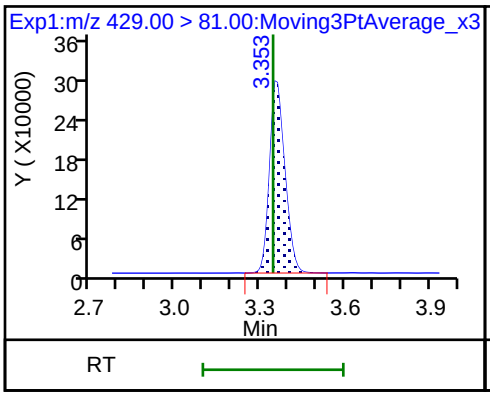
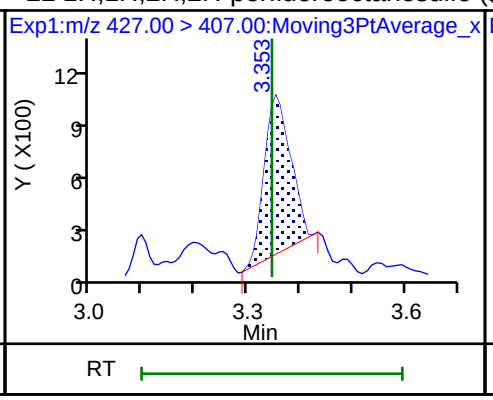


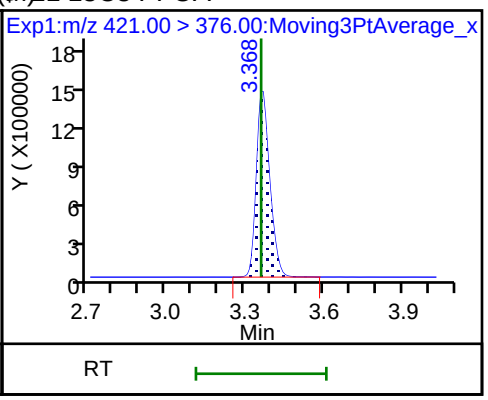
D 20 M2-6:2 FTS



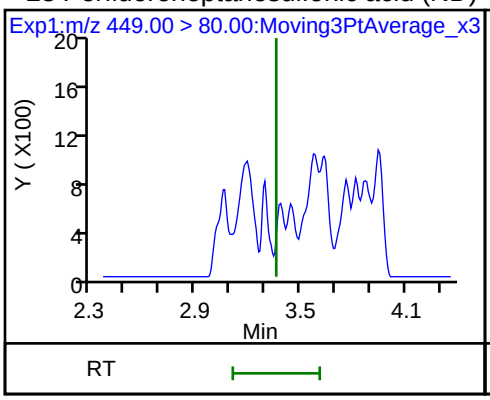
22 1H,1H,2H,2H-perfluorooctanesulfo (M)



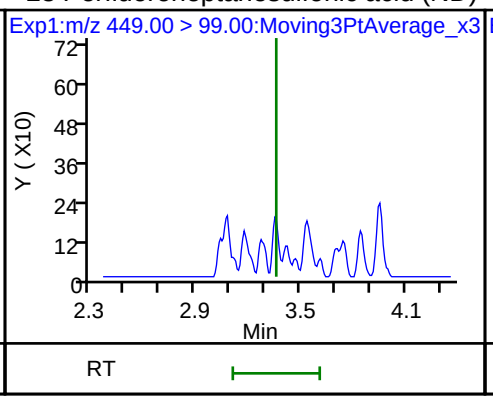
$ 21 13C8 PFOA



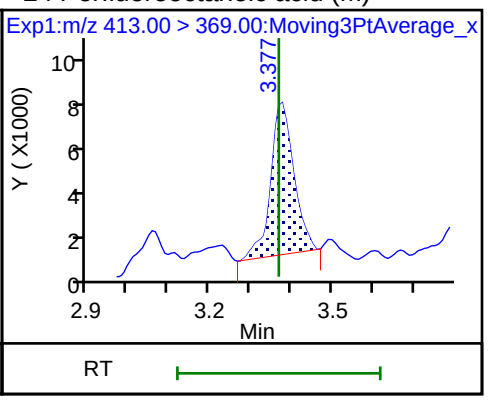
23 Perfluoroheptanesulfonic acid (ND)



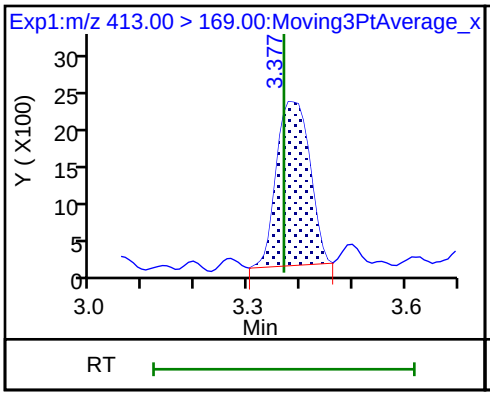
23 Perfluoroheptanesulfonic acid (ND)



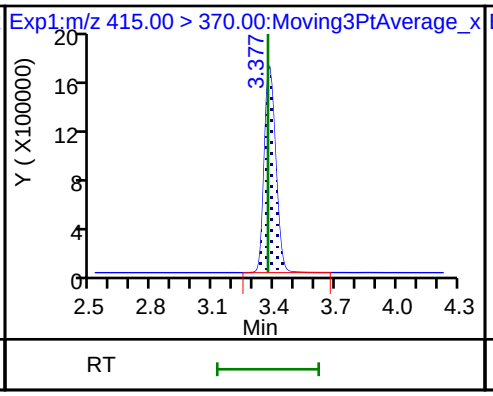
24 Perfluorooctanoic acid (M)



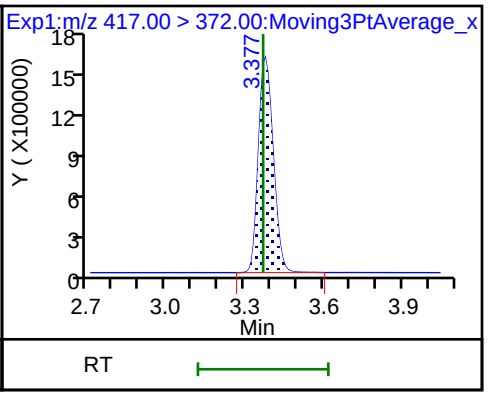
24 Perfluorooctanoic acid



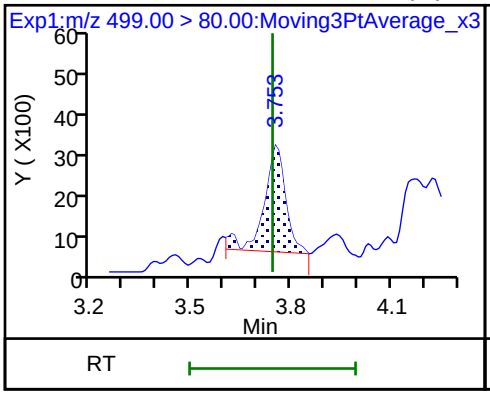
* 25 13C2 PFOA



D 26 13C4 PFOA



28 Perfluorooctanesulfonic acid (M)



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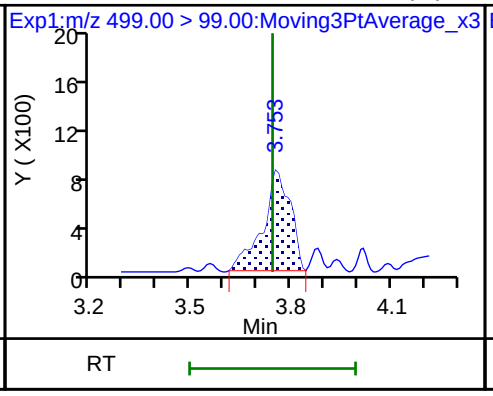
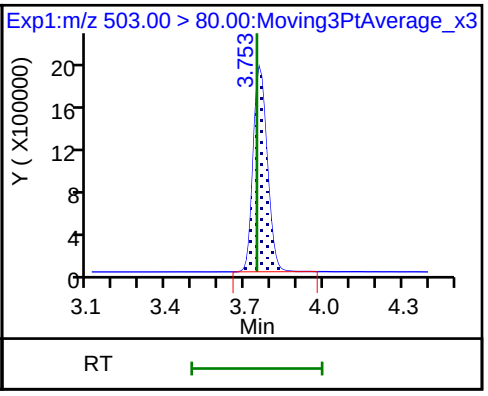
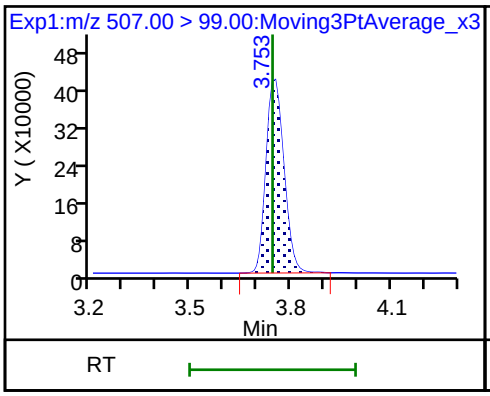


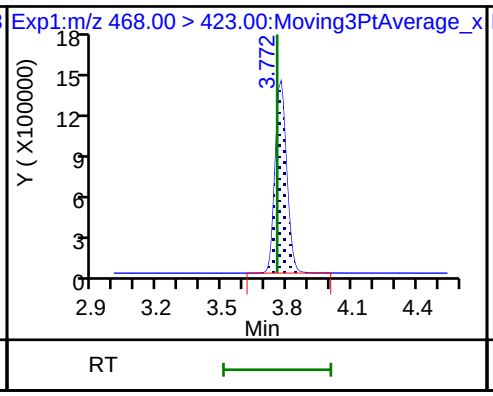
D 31 13C4 PFOS



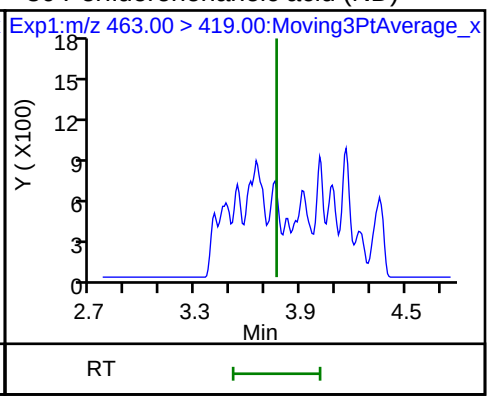
$ 27 13C8 PFOS



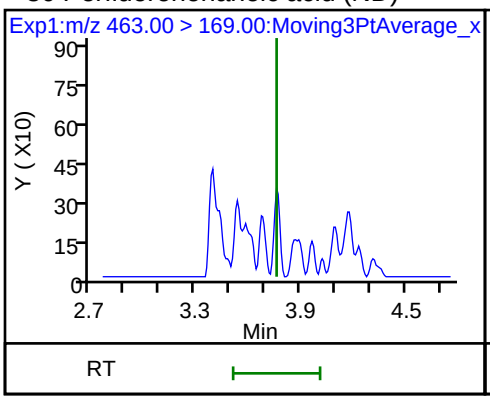
D 29 13C5 PFNA



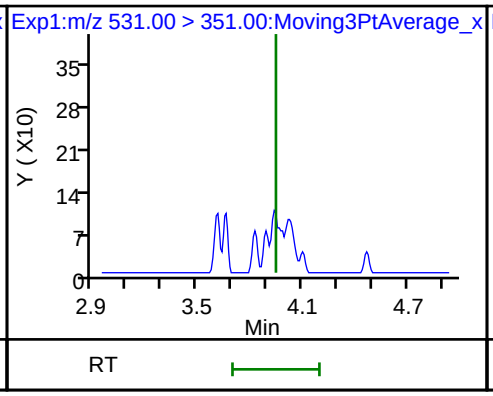
30 Perfluorononanoic acid (ND)



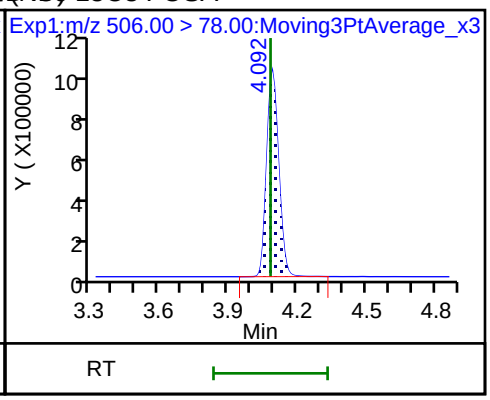
30 Perfluorononanoic acid (ND)



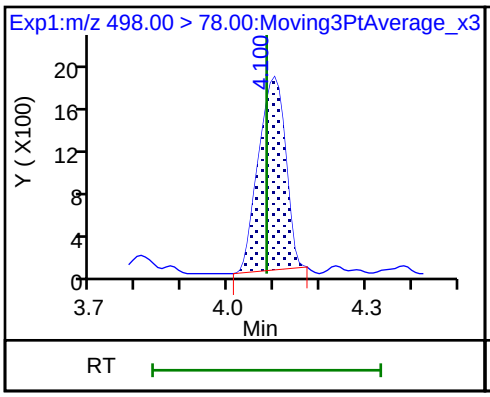
32 9-Chlorohexadecafluoro-3-oxanona(ND)



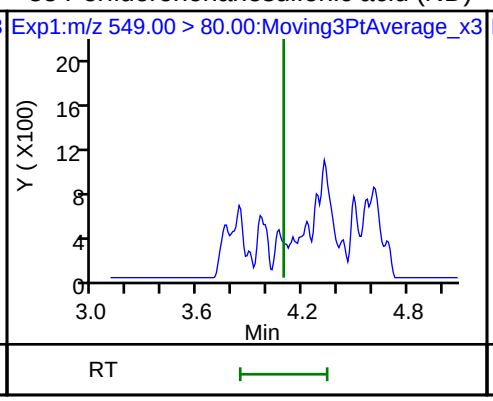
D 36 13C8 FOSA



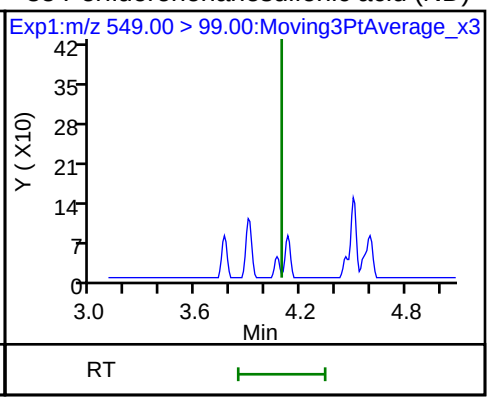
34 Perfluorooctanesulfonamide



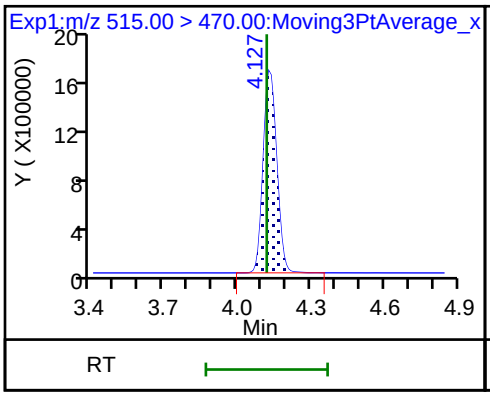
35 Perfluorononanesulfonic acid (ND)



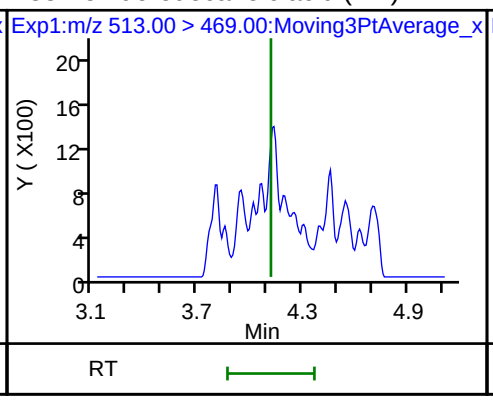
35 Perfluorononanesulfonic acid (ND)



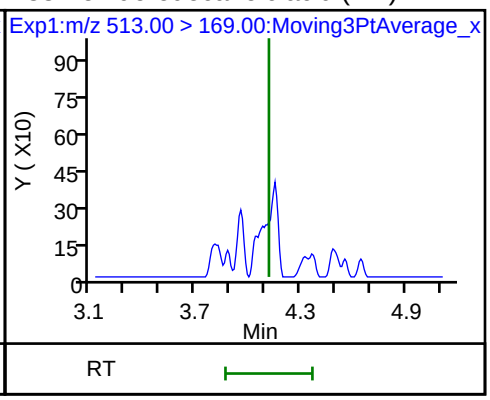
D 33 13C2 PFDA



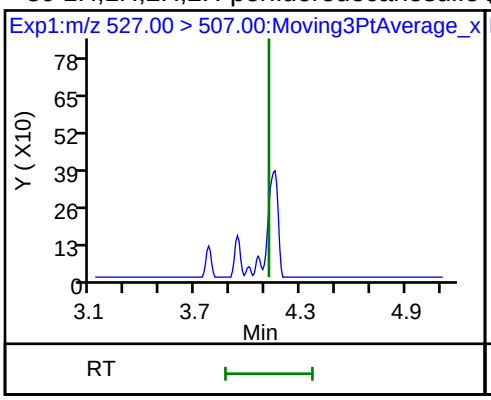
38 Perfluorodecanoic acid (ND)



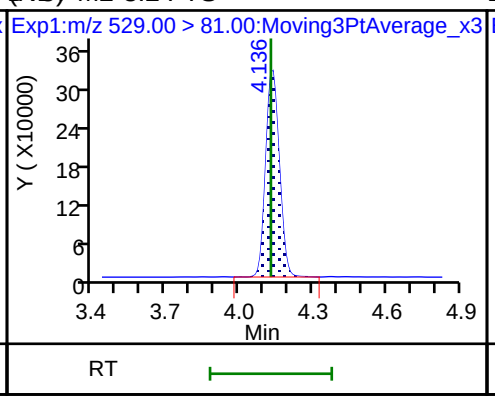
38 Perfluorodecanoic acid (ND)



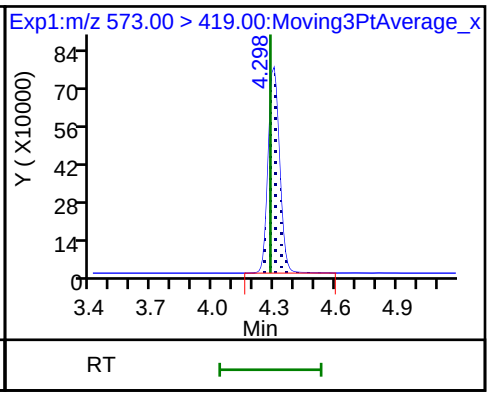
39 1H,1H,2H,2H-perfluorodecanesulfo (ND)



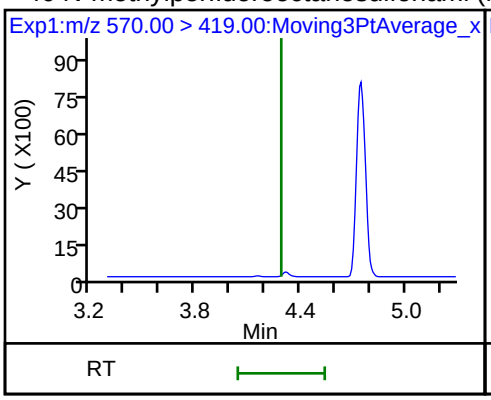
D 37 M2-8:2 FTS



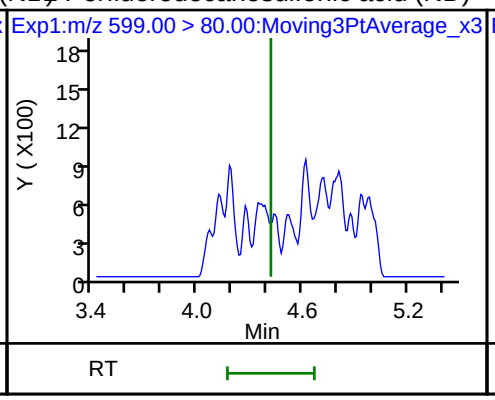
D 41 d3-NMeFOSAA



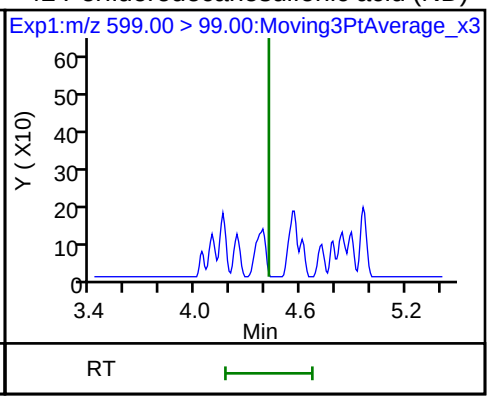
40 N-methylperfluorooctanesulfonami (ND)



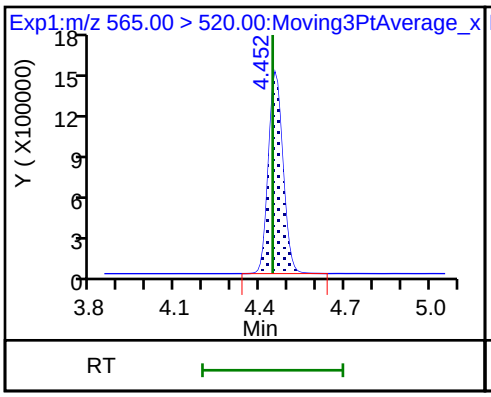
42 Perfluorodecanesulfonic acid (ND)



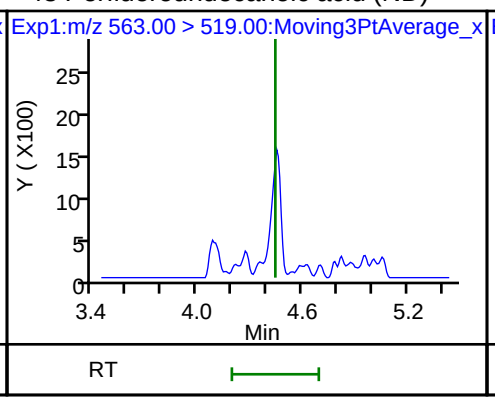
42 Perfluorodecanesulfonic acid (ND)



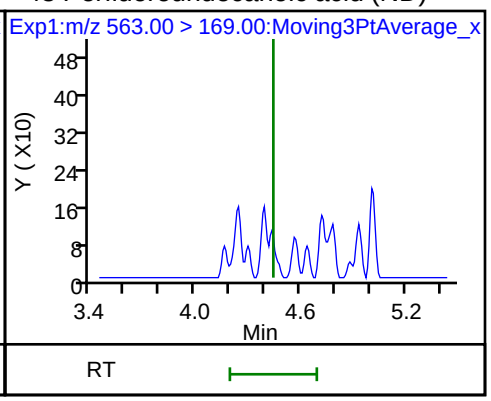
D 46 13C2 PFUnA



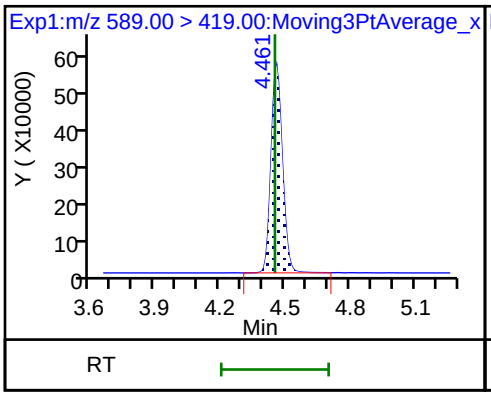
43 Perfluoroundecanoic acid (ND)



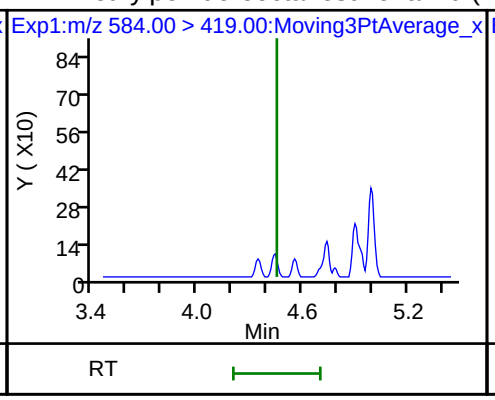
43 Perfluoroundecanoic acid (ND)



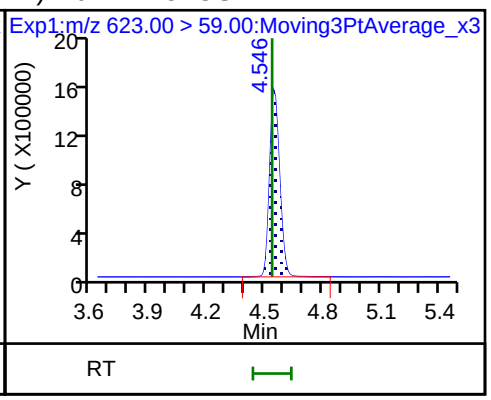
D 45 d5-NEtFOSAA



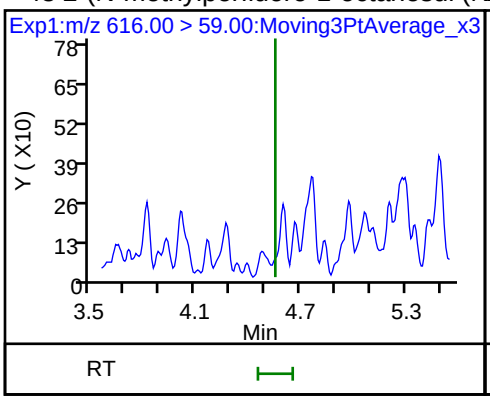
44 N-ethylperfluorooctanesulfonamid (ND)



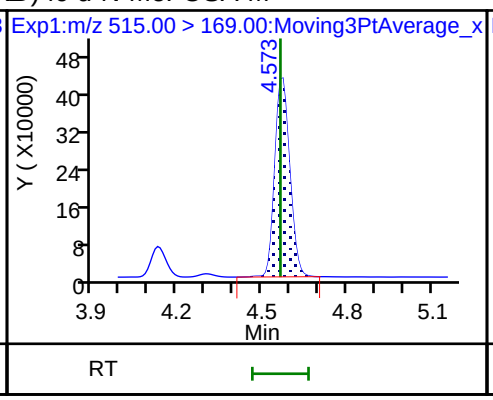
D 47 d7-N-MeFOSE-M



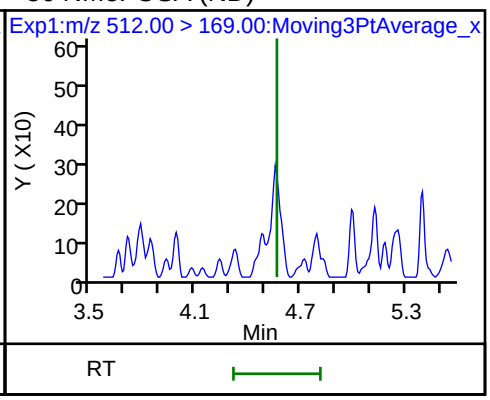
48 2-(N-methylperfluoro-1-octanesul (ND)



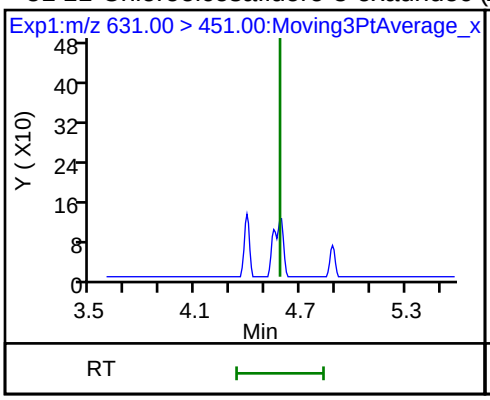
D 49 d-N-MeFOSA-M



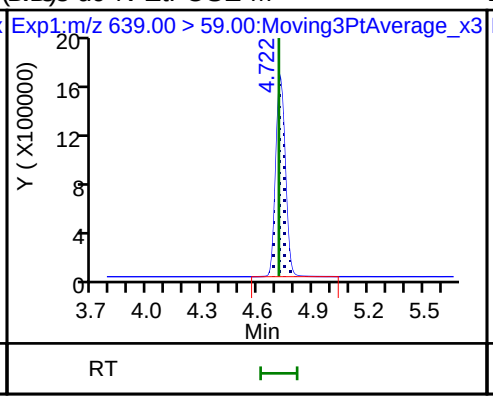
50 NMeFOSA (ND)



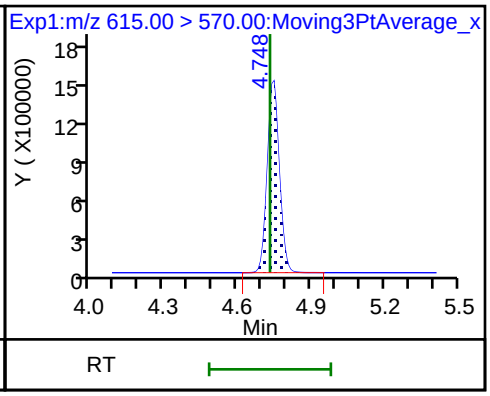
51 11-Chloroeicosafluoro-3-oxaundec (ND)



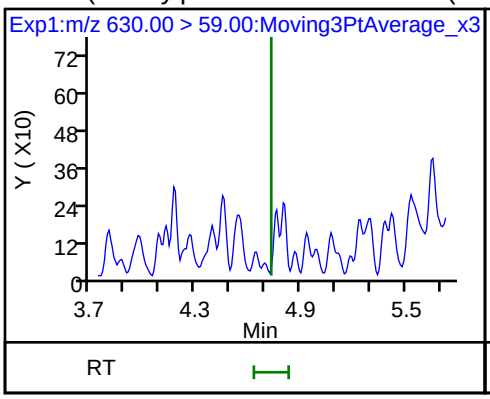
D 53 d9-N-EtFOSE-M



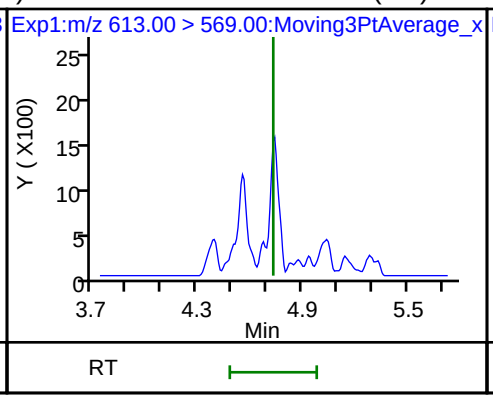
D 56 13C2 PFDoA



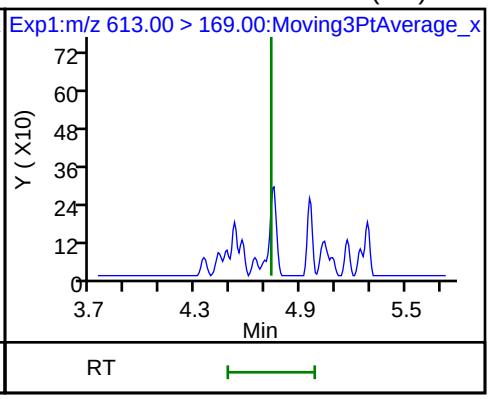
54 2-(N-ethylperfluoro-1-octanesulf (ND)



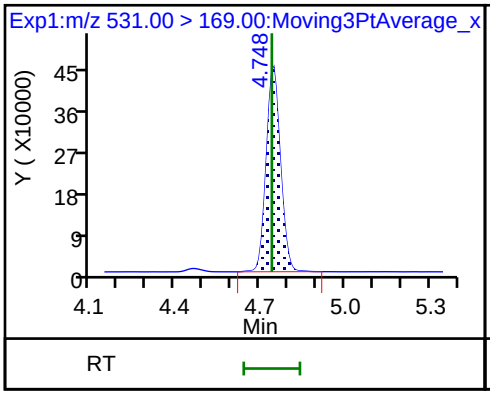
52 Perfluorododecanoic acid (ND)



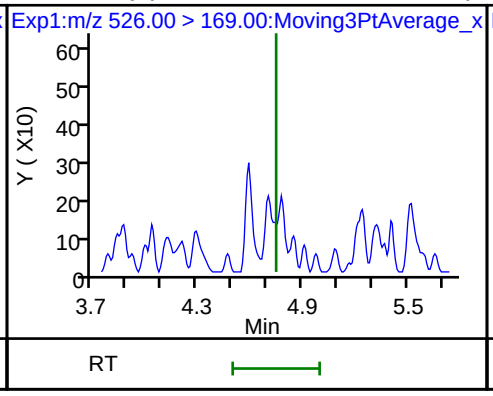
52 Perfluorododecanoic acid (ND)



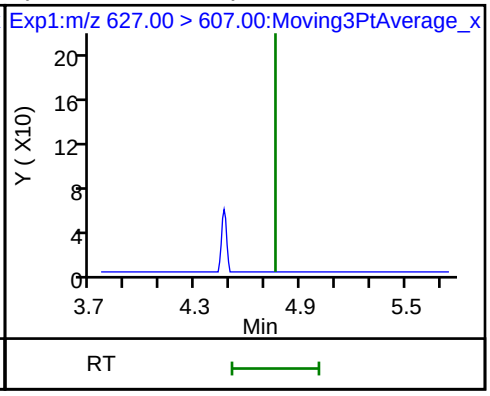
D 58 d-N-EtFOSA-M



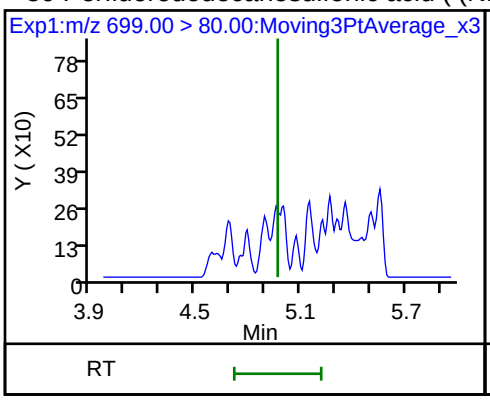
57 N-ethylperfluoro-1-octanesulfona (ND)



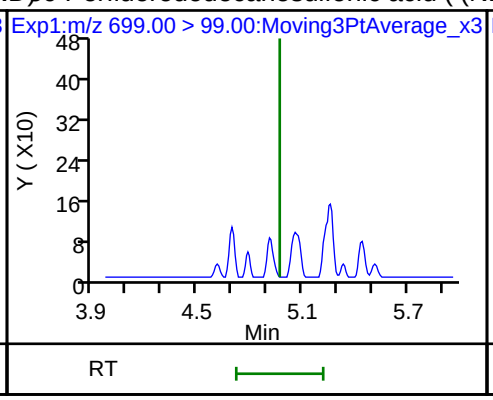
55 1H,1H,2H,2H-perfluorododecanesul (ND)



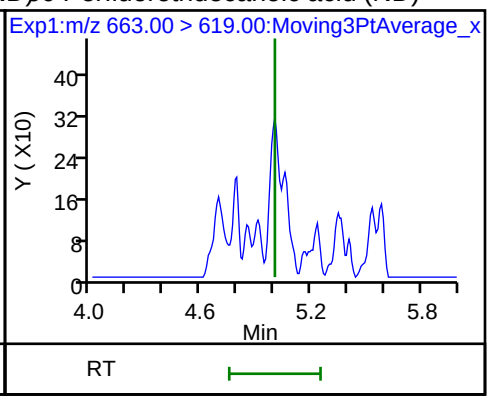
59 Perfluorododecanesulfonic acid ((ND)



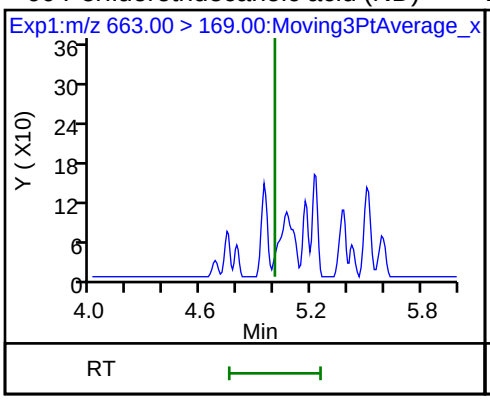
59 Perfluorododecanesulfonic acid ((ND)



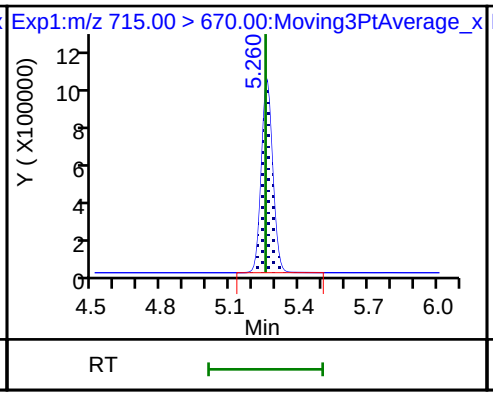
60 Perfluorotridecanoic acid (ND)



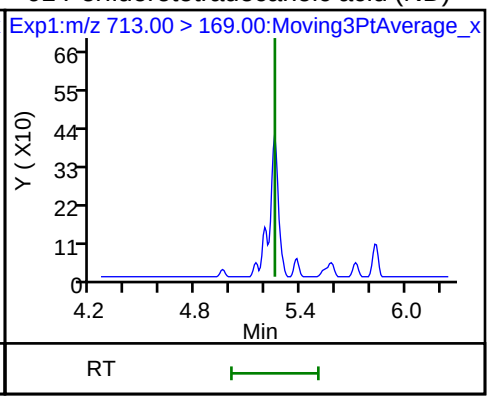
60 Perfluorotridecanoic acid (ND)



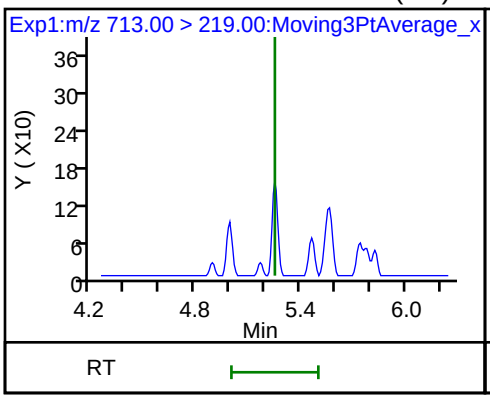
D 62 13C2 PFTeDA



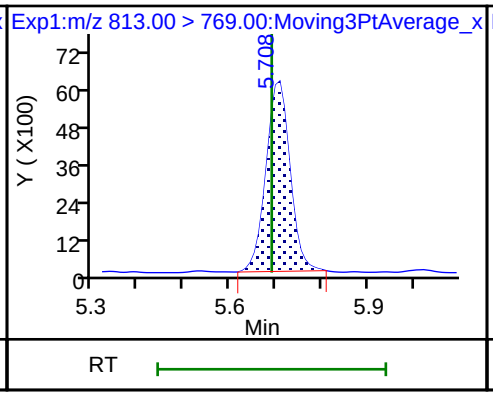
61 Perfluorotetradecanoic acid (ND)



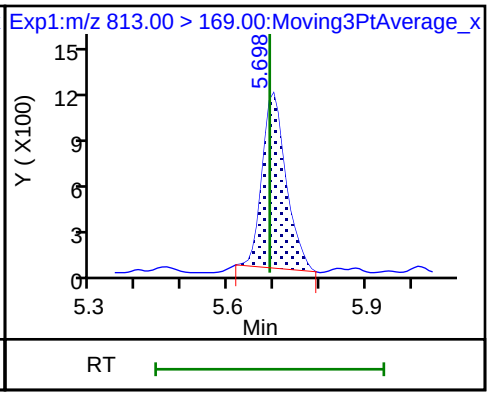
61 Perfluorotetradecanoic acid (ND)



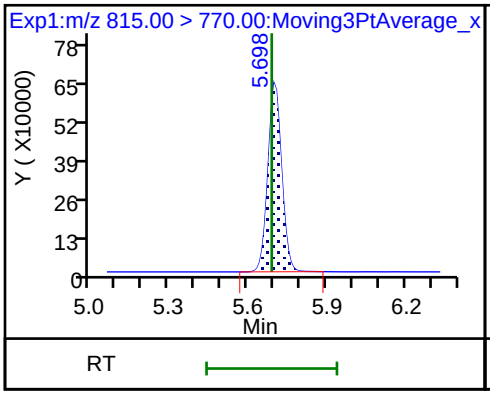
64 Perfluorohexadecanoic acid



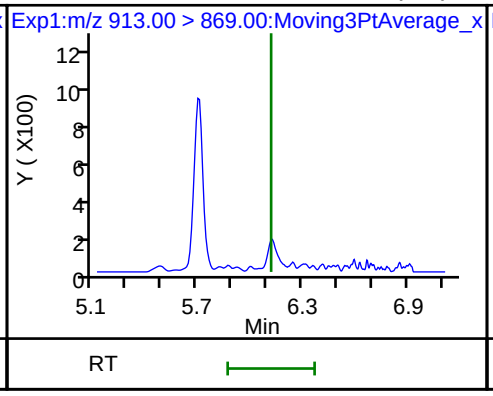
64 Perfluorohexadecanoic acid



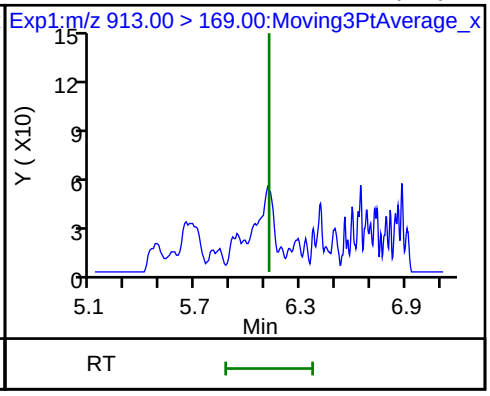
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

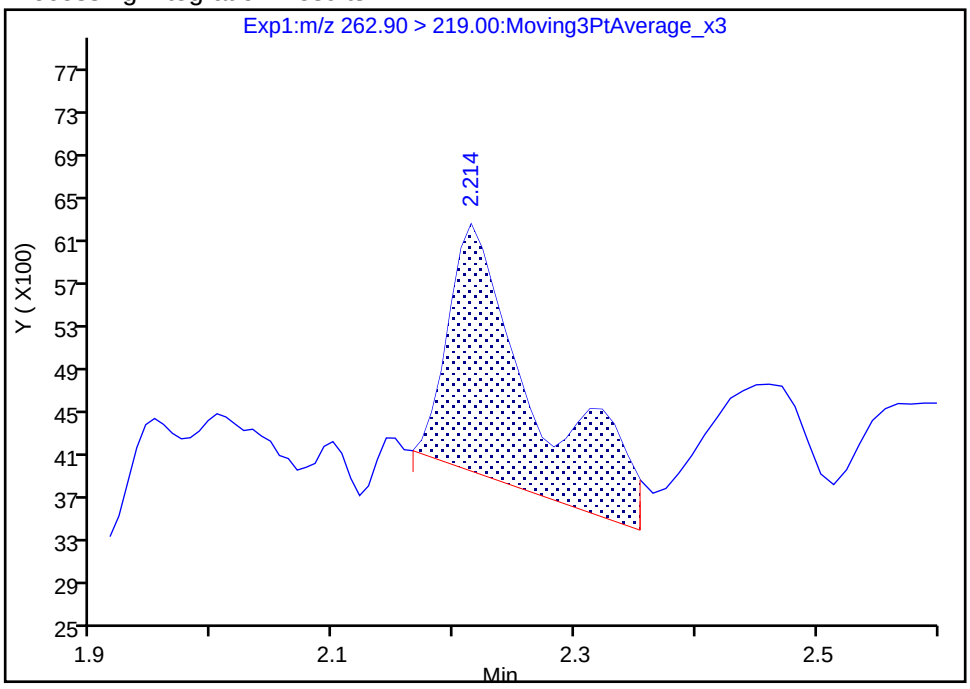
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d				
Injection Date:	11-Sep-2020 09:30:40	Instrument ID:	A9		
Lims ID:	CCB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	41	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

3 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

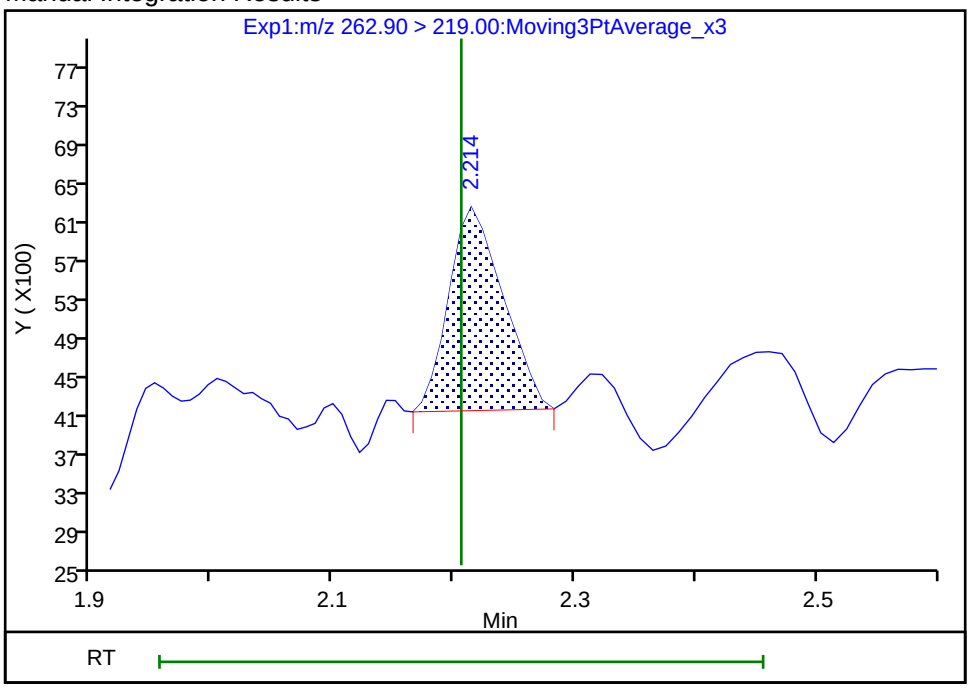
Processing Integration Results

RT: 2.21
Area: 11536
Amount: 0.004106
Amount Units: ng/ml



Manual Integration Results

RT: 2.21
Area: 6517
Amount: 0.002319
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:16:53

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

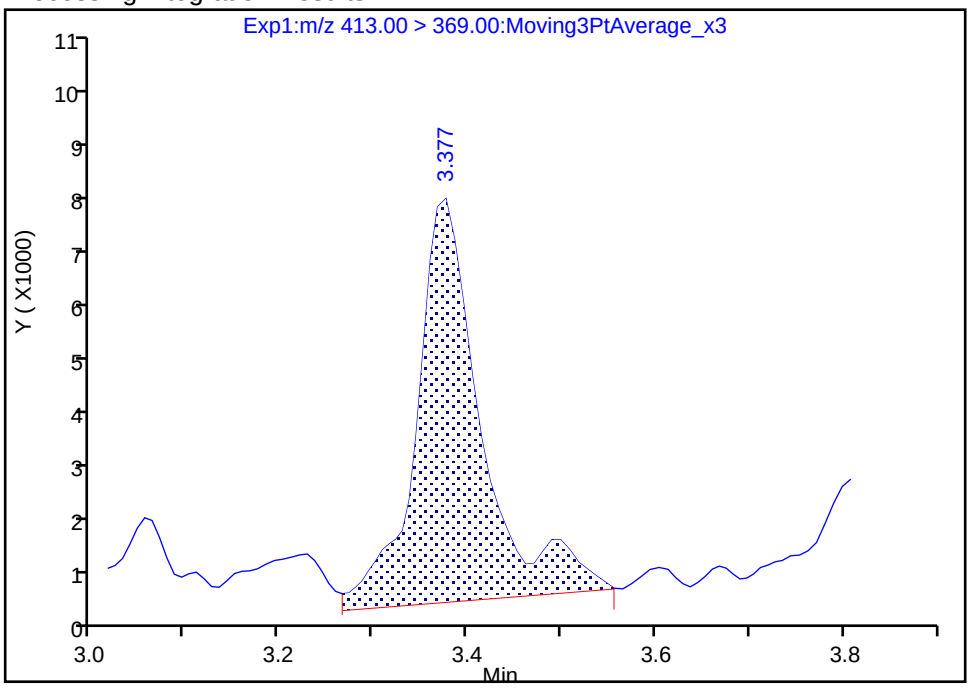
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d				
Injection Date:	11-Sep-2020 09:30:40	Instrument ID:	A9		
Lims ID:	CCB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	41	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

24 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

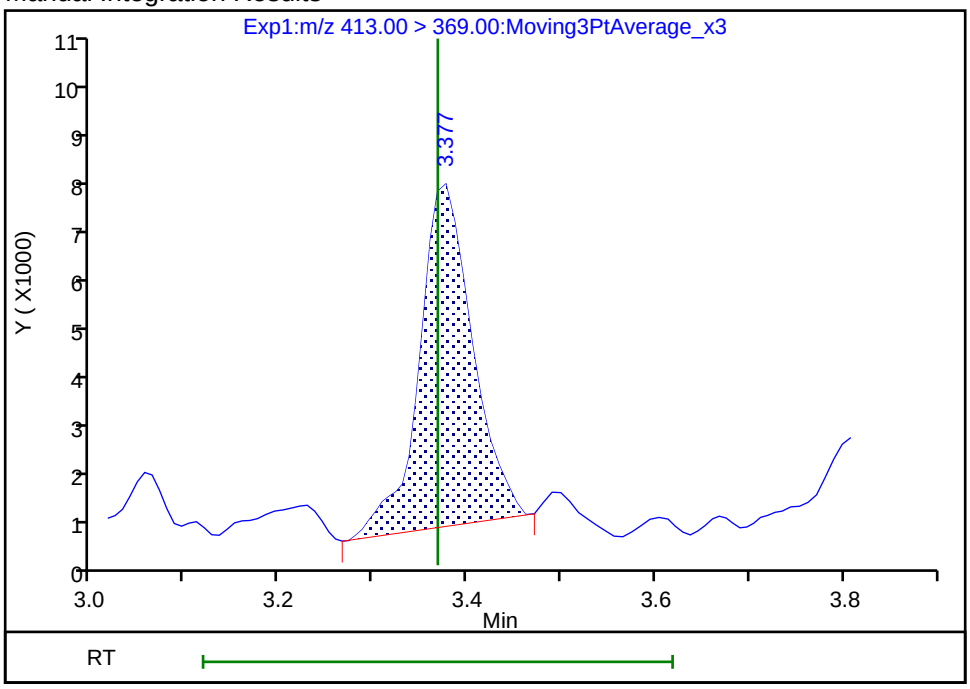
Processing Integration Results

RT: 3.38
Area: 34331
Amount: 0.012890
Amount Units: ng/ml



Manual Integration Results

RT: 3.38
Area: 26237
Amount: 0.009851
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:19:03
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

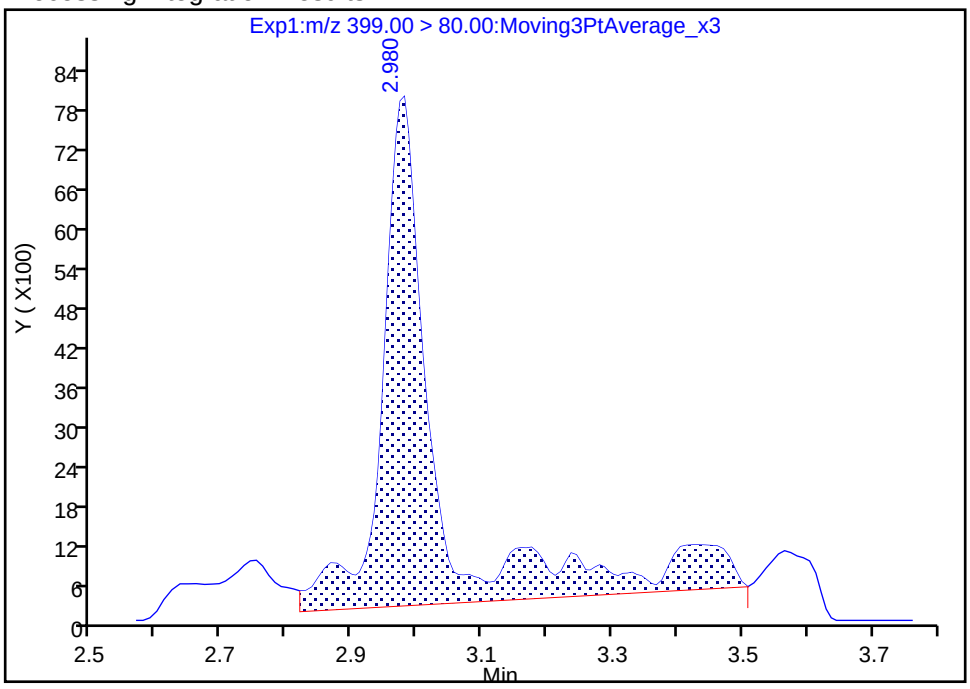
Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d
Injection Date: 11-Sep-2020 09:30:40 Instrument ID: A9
Lims ID: CCB
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 41 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

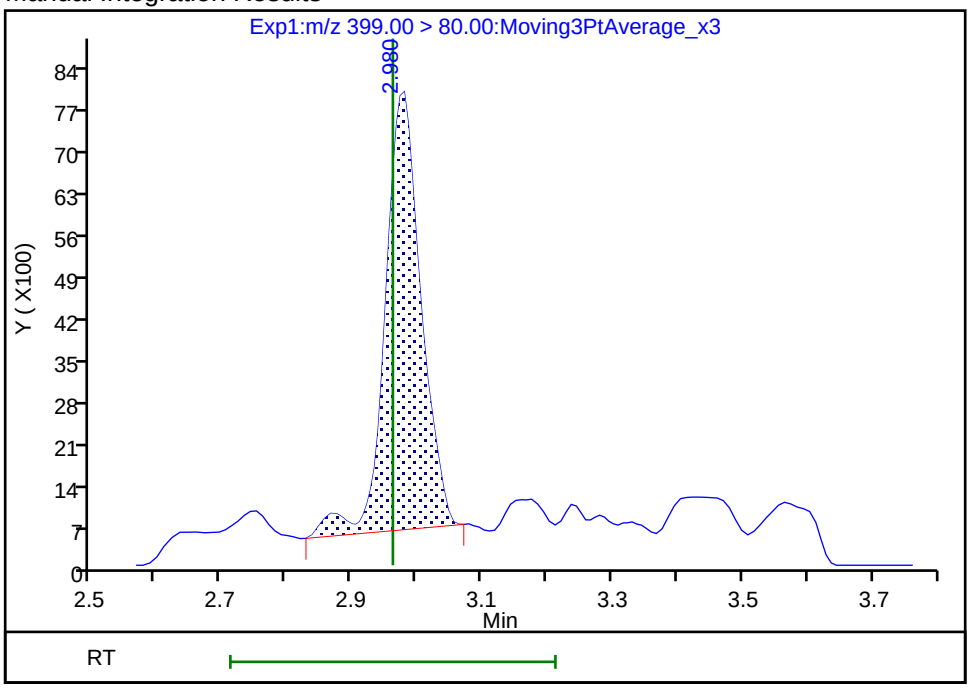
Processing Integration Results

RT: 2.98
Area: 45491
Amount: 0.013591
Amount Units: ng/ml



Manual Integration Results

RT: 2.98
Area: 28116
Amount: 0.008400
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:17:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

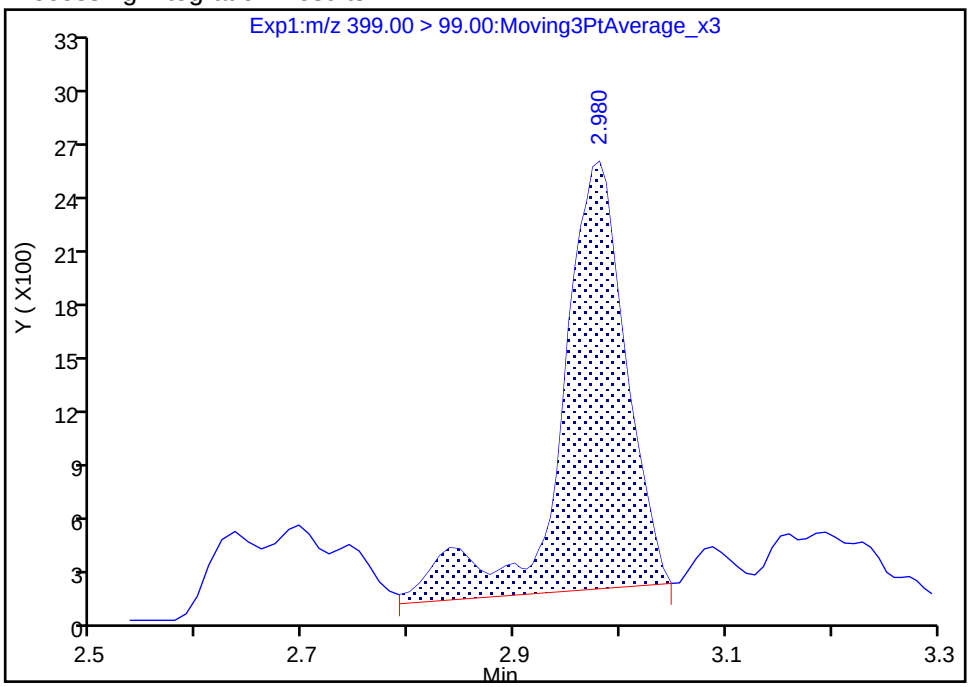
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d				
Injection Date:	11-Sep-2020 09:30:40	Instrument ID:	A9		
Lims ID:	CCB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	41	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

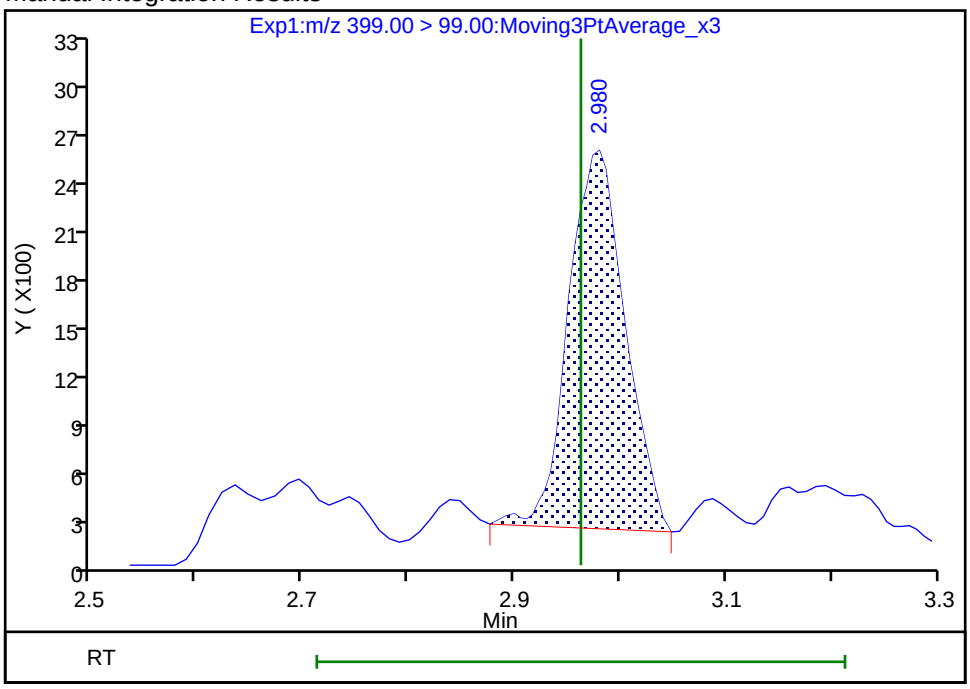
Processing Integration Results

RT: 2.98
Area: 10097
Amount: 0.013591
Amount Units: ng/ml



Manual Integration Results

RT: 2.98
Area: 8558
Amount: 0.008400
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:18:30
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

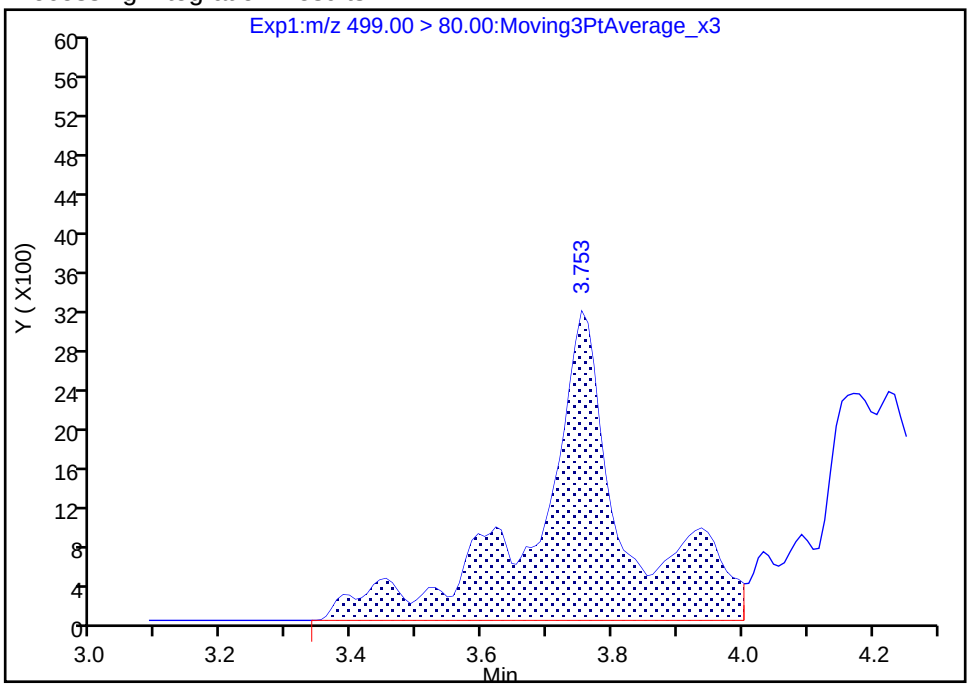
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d				
Injection Date:	11-Sep-2020 09:30:40	Instrument ID:	A9		
Lims ID:	CCB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	41	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

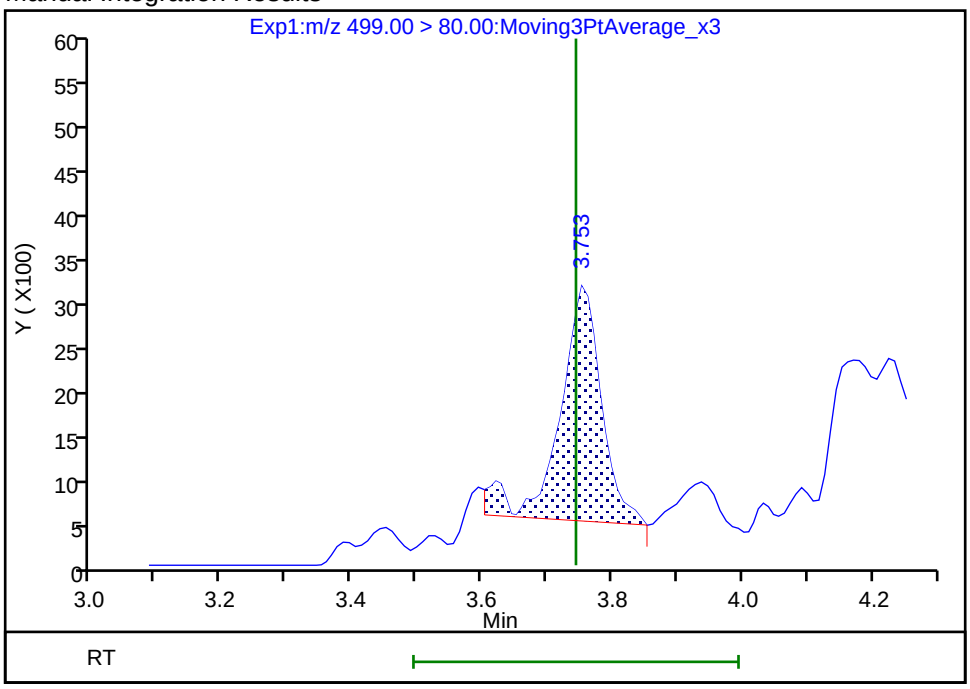
Processing Integration Results

RT: 3.75
Area: 30493
Amount: 0.009925
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 11834
Amount: 0.003852
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:19:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

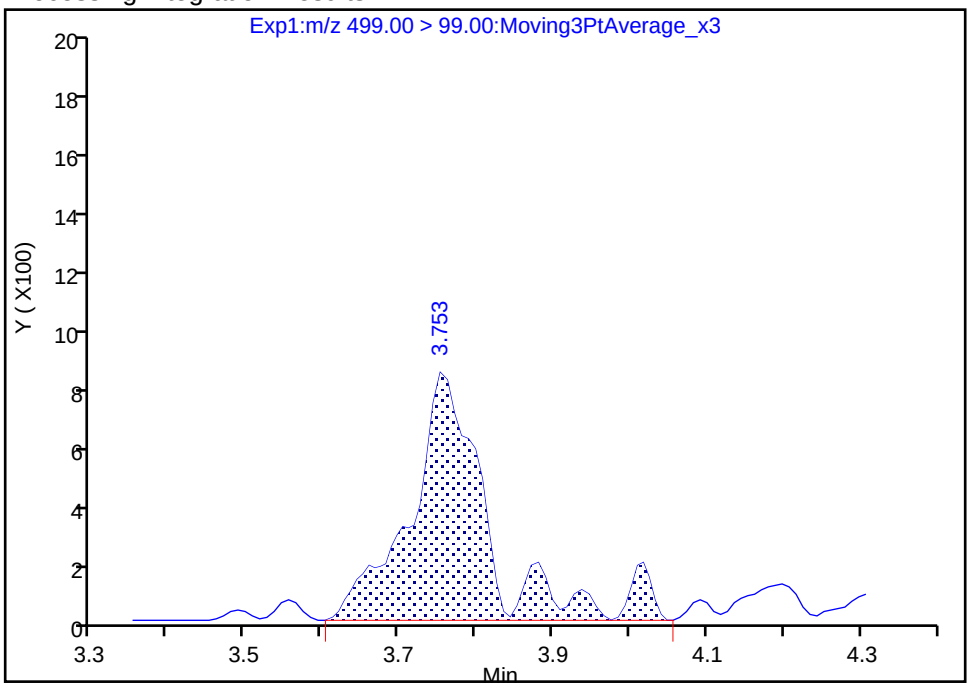
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d				
Injection Date:	11-Sep-2020 09:30:40	Instrument ID:	A9		
Lims ID:	CCB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	41	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

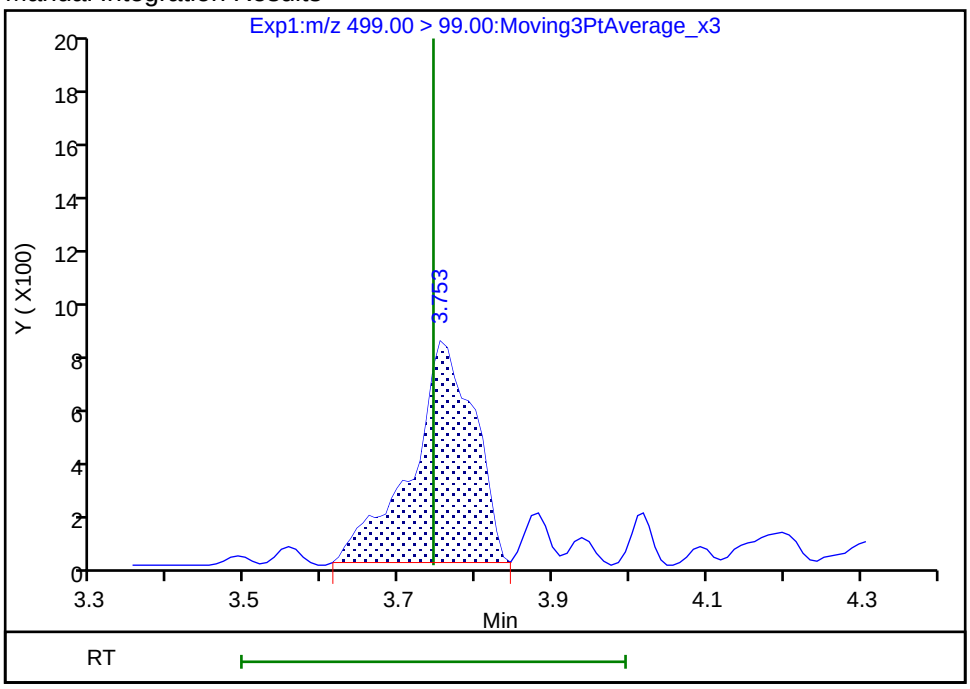
Processing Integration Results

RT: 3.75
Area: 5949
Amount: 0.009925
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 4773
Amount: 0.003852
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:19:59
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

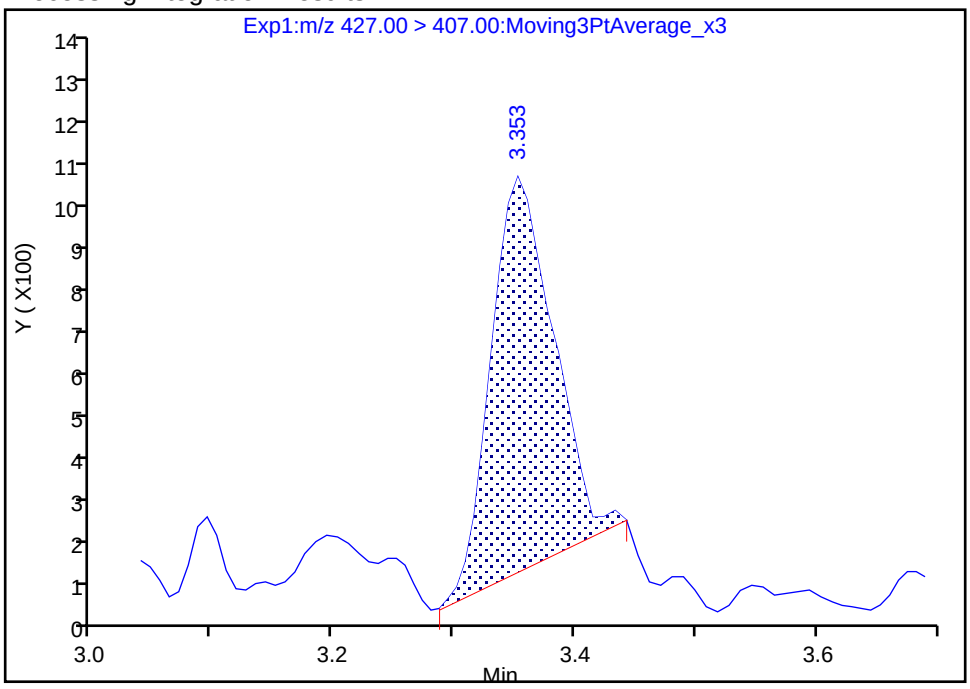
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103077.b\2020.09.11_A9_PFC_AA_004.d				
Injection Date:	11-Sep-2020 09:30:40	Instrument ID:	A9		
Lims ID:	CCB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	41	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

22 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

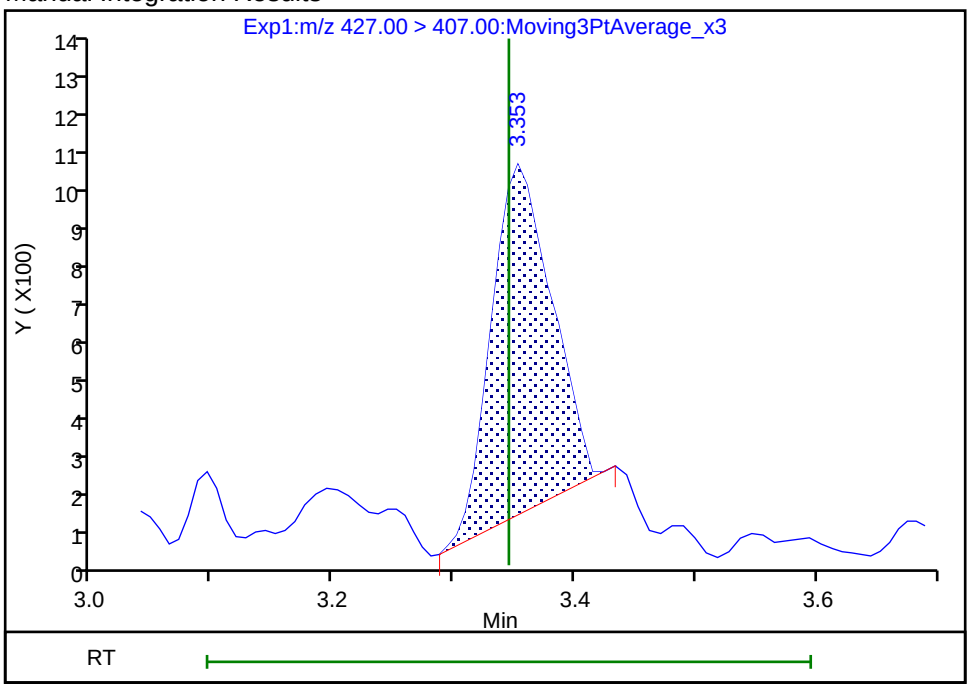
Processing Integration Results

RT: 3.35
Area: 3329
Amount: 0.004698
Amount Units: ng/ml



Manual Integration Results

RT: 3.35
Area: 3145
Amount: 0.004438
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 10:18:49
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-411371/1

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_004.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/11/2020 10:52

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411371 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0073	U	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00760	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-411371/1

Matrix: Water Lab File ID: 2020.09.11_A18_PFC_A_004.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/11/2020 10:52

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411371 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	81		25-150
STL01893	13C5 PFPeA	83		25-150
STL00993	13C2 PFHxA	92		25-150
STL01892	13C4 PFHpA	96		25-150
STL00990	13C4 PFOA	95		25-150
STL00995	13C5 PFNA	103		25-150
STL00996	13C2 PFDA	108		25-150
STL00997	13C2 PFUnA	112		25-150
STL00998	13C2 PFDoA	97		25-150
STL02116	13C2 PFTeDA	95		25-150
STL02337	13C3 PFBS	88		25-150
STL00994	18O2 PFHxS	94		25-150
STL00991	13C4 PFOS	88		25-150
STL01056	13C8 FOSA	90		25-150
STL02118	d3-NMeFOSAA	83		25-150
STL02117	d5-NEtFOSAA	92		25-150
STL02279	M2-6:2 FTS	82		25-150
STL02280	M2-8:2 FTS	84		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 11-Sep-2020 10:52:12 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCB (53)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 14-Sep-2020 09:58:43 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1038

First Level Reviewer: sanjumnair Date: 14-Sep-2020 09:58:53
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200910-103060.b\2020.09.10_A18_PFC_B_009.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.557	2.566	-0.009	0.624	17452098	2.03		81.2	10516	
D 4 13C5 PFPeA										
267.90 > 223.00	2.909	2.920	-0.011	0.710	13792744	2.06		82.5	4535	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.919	2.920	-0.001	1.004	14873	0.002704			0.7	M
D 9 13C3 PFBS										
301.90 > 80.00	2.950	2.951	-0.001	0.720	10782925	2.05		88.3	4378	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.248	3.251	-0.003	0.792	2329098	1.84		78.9	1067	
D 11 13C2 PFHxA										
315.00 > 270.00	3.287	3.301	-0.014	0.802	15402220	2.31		92.3	8717	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.298	3.301	-0.003	1.003	21574	0.003633	Target=13.46		1.4	
313.00 > 119.00	3.298	3.301	-0.003	1.003	1713		12.59(6.73-20.18)		0.8	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.415	3.418	-0.003	0.833	2817889	2.06		82.6	4602	
D 18 13C4 PFHpA										
367.00 > 322.00	3.701	3.702	-0.001	0.903	13655042	2.40		95.9	6618	
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.701	3.702	-0.001	1.000	23354	0.007600	Target=3.45		8.9	M
399.00 > 99.00	3.701	3.702	-0.001	1.000	8140		2.87(1.72-5.17)		4.9	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.701	3.702	-0.001	0.903	6150983	2.22		93.7	6523	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.074	4.076	-0.002	0.994	2064791	1.94		81.9	1427	
21 6:2 FTS										
427.00 > 407.00	4.074	4.076	-0.002	1.000	12804	0.006407			30.1	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
$ 26 13C8 PFOA										
421.00 > 376.00	4.090	4.092	-0.002	0.998	9368712	2.56		104	6013	
* 23 13C2 PFOA										
415.00 > 370.00	4.098	4.092	0.006		13554288	2.50			7624	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.098	4.092	0.006	1.000	44876	0.008500	Target=2.90		5.9	M
413.00 > 169.00	4.107	4.092	0.015	1.002	16258		2.76(1.45-4.35)		15.3	M
D 25 13C4 PFOA										
417.00 > 372.00	4.098	4.092	0.006	1.000	12934346	2.38		95.3	6478	
$ 28 13C8 PFOS										
507.00 > 99.00	4.454	4.454	0.0	1.087	1275112	2.17		90.9	4130	
D 27 13C4 PFOS										
503.00 > 80.00	4.462	4.454	0.008	1.089	3949878	2.10		88.0	1852	
D 30 13C5 PFNA										
468.00 > 423.00	4.478	4.478	0.0	1.093	11309284	2.59		103	6817	
D 33 13C8 FOSA										
506.00 > 78.00	4.786	4.794	-0.008	1.168	6814718	2.25		89.9	4653	
34 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.786	4.794	-0.008	1.000	3425	0.001350			17.1	M
D 39 13C2 PFDA										
515.00 > 470.00	4.837	4.828	0.009	1.180	11455650	2.70		108	9801	
36 8:2 FTS										
527.00 > 507.00	4.829	4.837	-0.008	0.998	1854	0.000817			12.6	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.837	4.837	0.0	1.180	3062653	2.00		83.5	2299	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.000	5.000	0.0	1.220	5942566	2.09		83.4	3292	
D 43 13C2 PFUnA										
565.00 > 520.00	5.166	5.157	0.009	1.260	11759453	2.80		112	18477	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.166	5.166	0.0	1.260	6954664	2.31		92.3	3451	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.239	5.248	-0.009	1.278	9586295	12.8		102	3641	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.269	5.269	0.0	1.286	2455583	2.30		92.2	46.8	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.416	5.426	-0.010	1.321	12229235	13.3		106	4488	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.448	5.447	0.001	1.329	2353252	2.16		86.3	452	
57 Perfluorododecanoic acid										M
613.00 > 569.00	5.459	5.447	0.012	1.000	9989	0.002440	Target=9.17		4.1	M
613.00 > 169.00	5.459	5.447	0.012	1.000	1172		8.52(4.58-13.75)		5.8	
D 56 13C2 PFDoA										
615.00 > 570.00	5.459	5.458	0.001	1.332	10010498	2.41		96.5	10341	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.971	5.959	0.012	1.457	8113550	2.37		94.8	7630	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C2 PFHxDA										
815.00 > 770.00	6.421	6.402	0.019	1.567	6076679	2.43		97.1	7035	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.421	6.411	0.010	1.000	50827	-0.00002292	Target=11.60		47.4	
813.00 > 169.00	6.421	6.411	0.010	1.000	5664		8.97(5.80-17.40)		60.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00053 Amount Added: 1.00 Units: mL

Report Date: 14-Sep-2020 09:58:54 Chrom Revision: 2.3 11-Sep-2020 20:57:08

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d

Injection Date: 11-Sep-2020 10:52:12 Instrument ID: A18

Lims ID: CCB

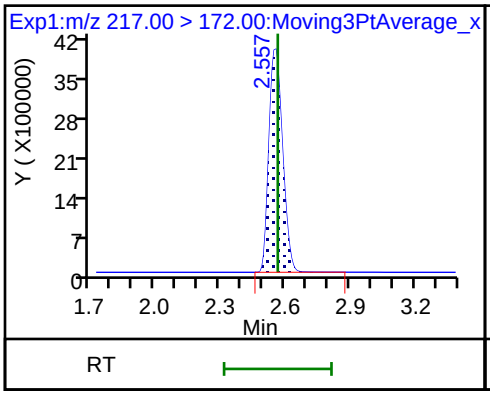
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1

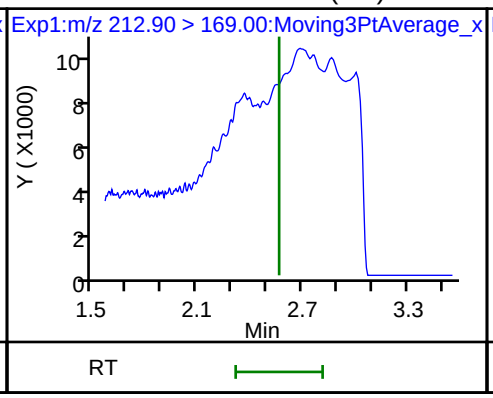
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid (ND)



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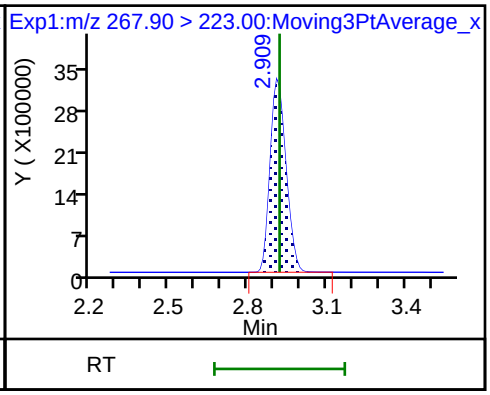

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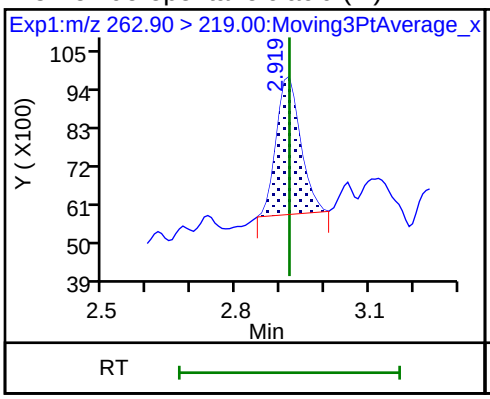

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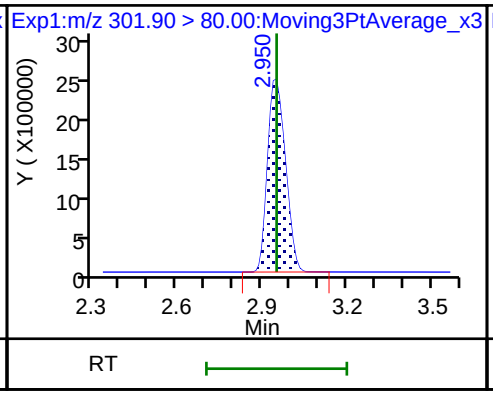

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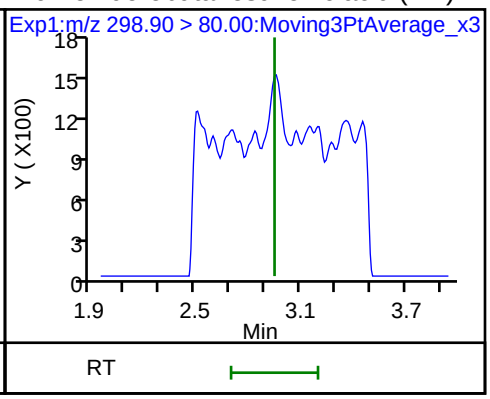

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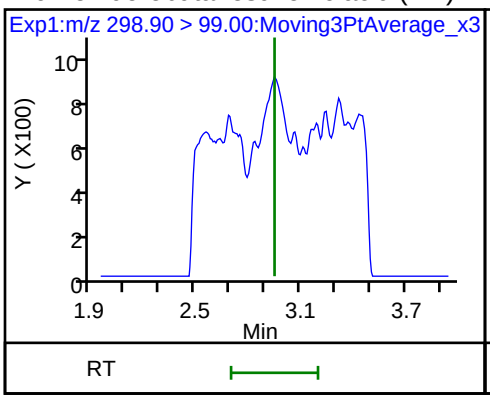
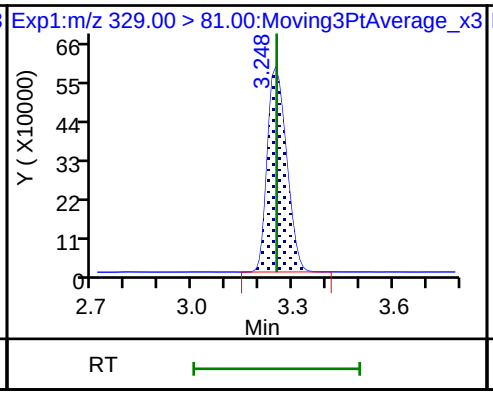


D 7 M2-4:2 FTS



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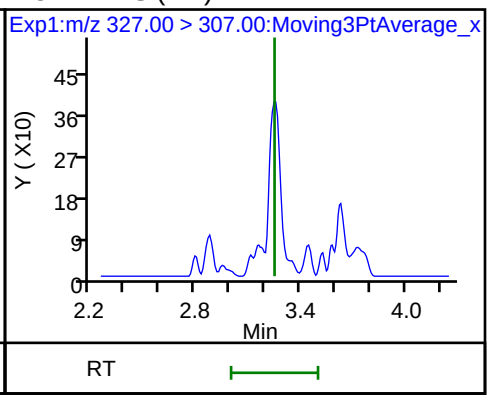
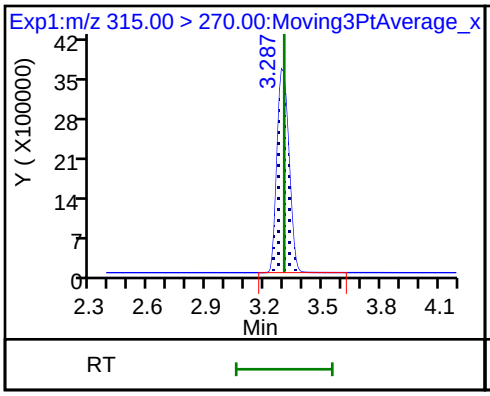
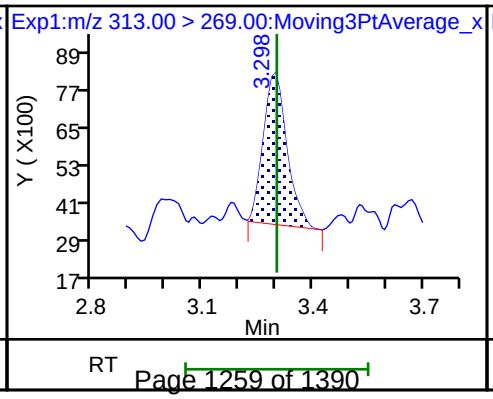


D 11 13C2 PFHxA



10 Perfluorohexanoic acid



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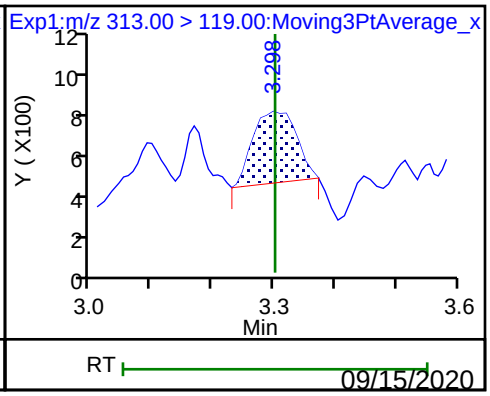
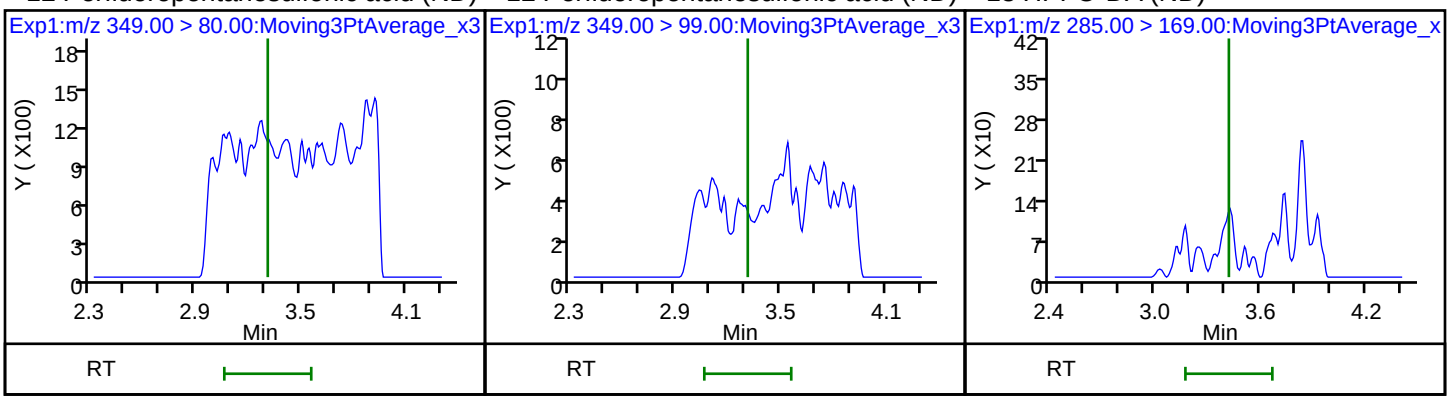


12 Perfluoropentanesulfonic acid (ND) 12 Perfluoropentanesulfonic acid (ND) 13 HPFO-DA (ND)



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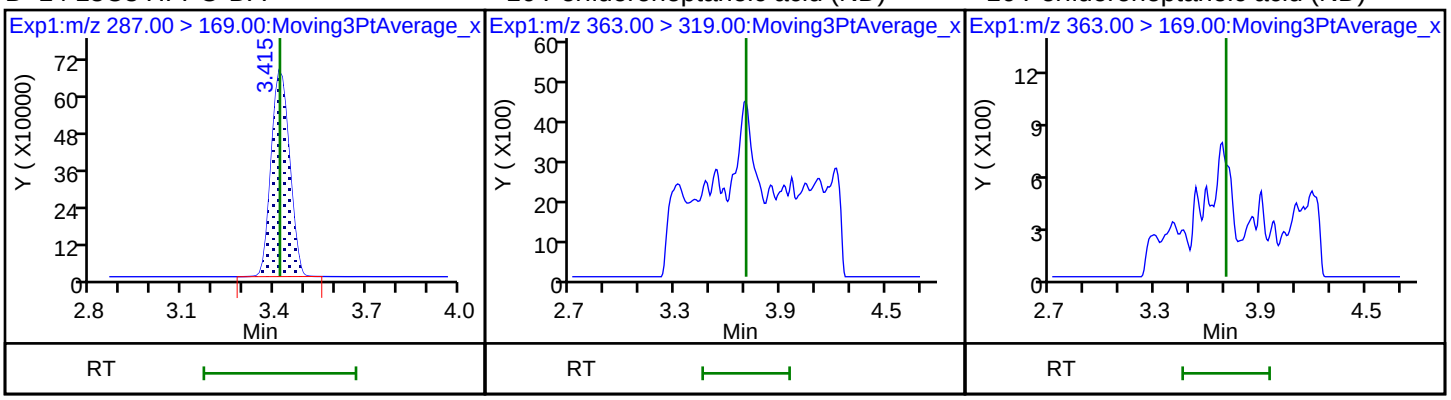

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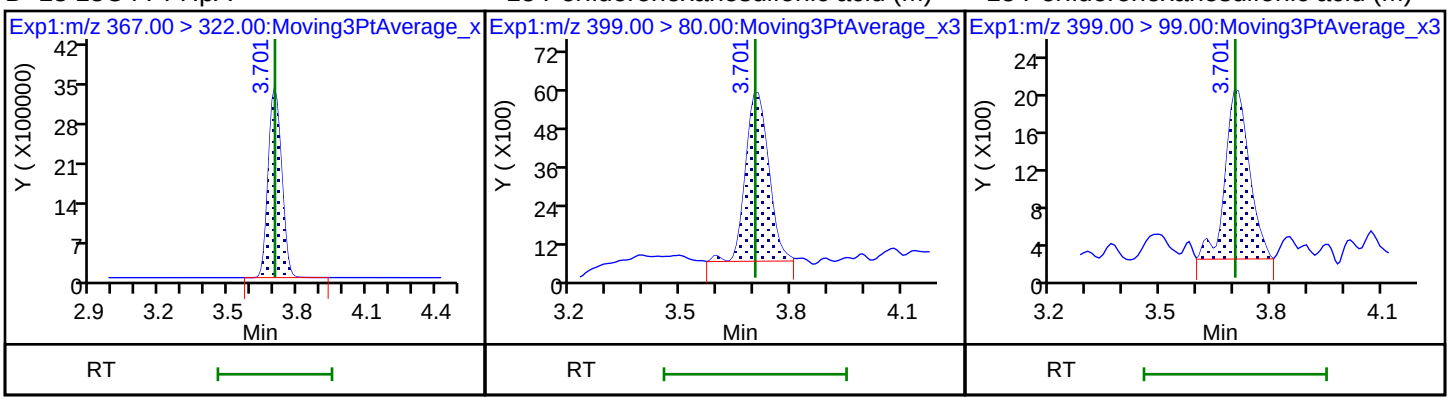

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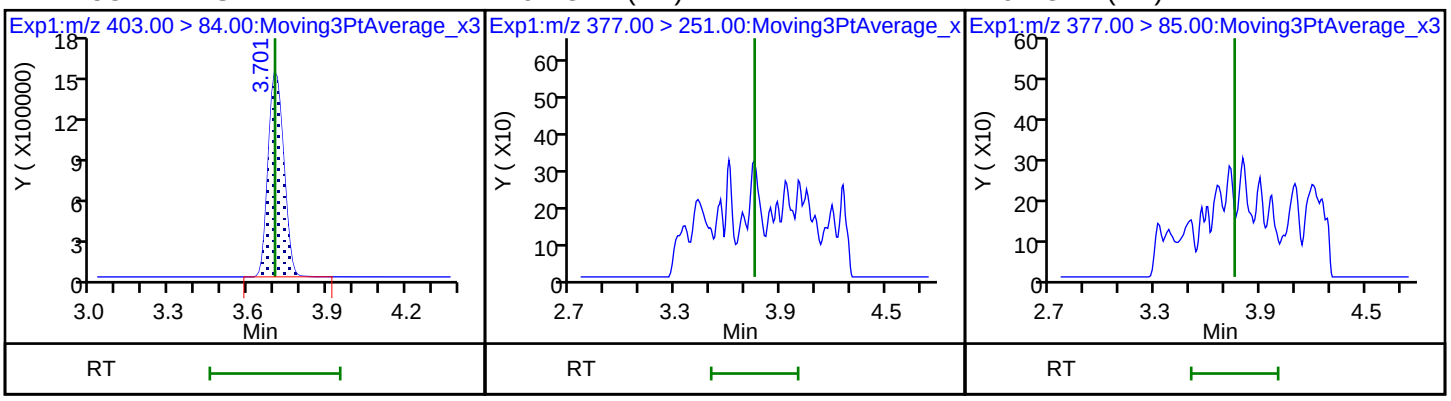

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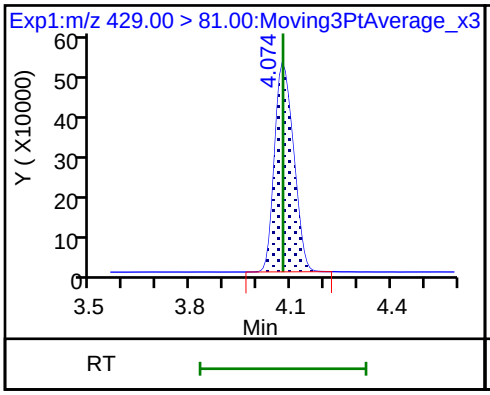

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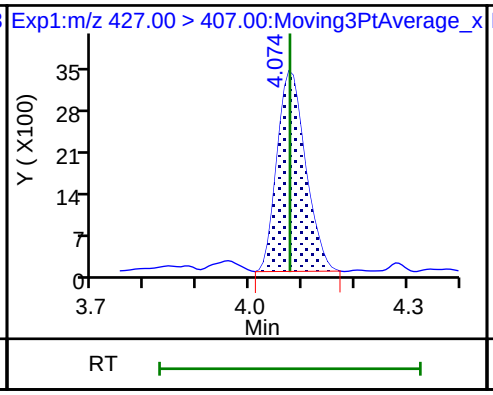

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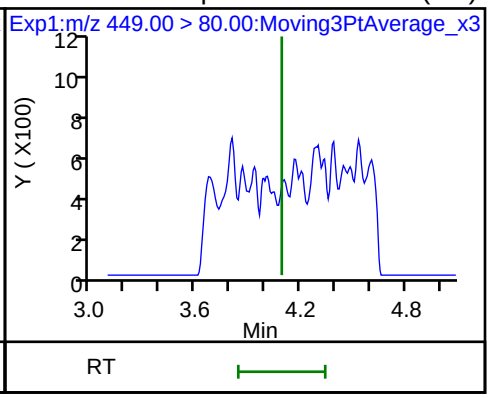

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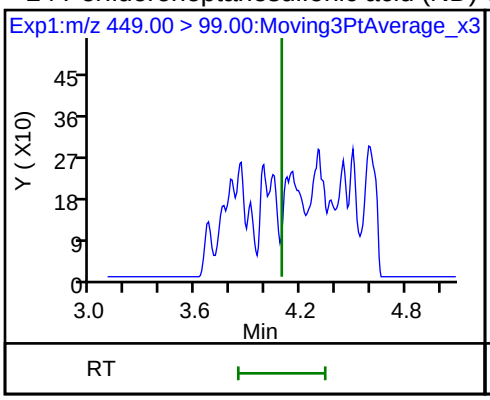

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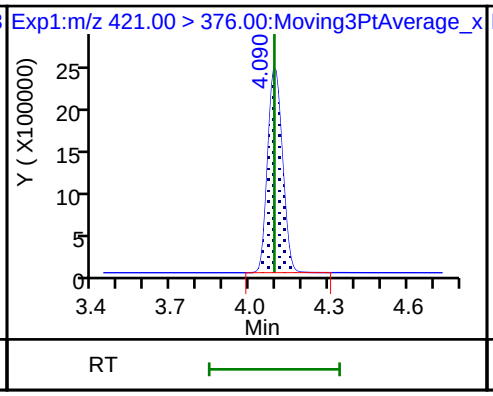

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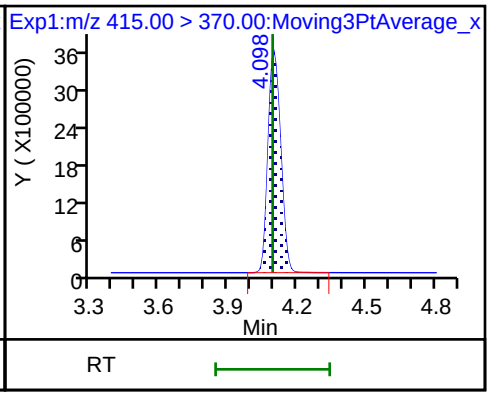

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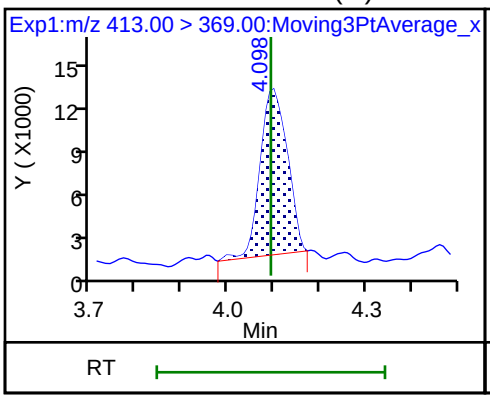

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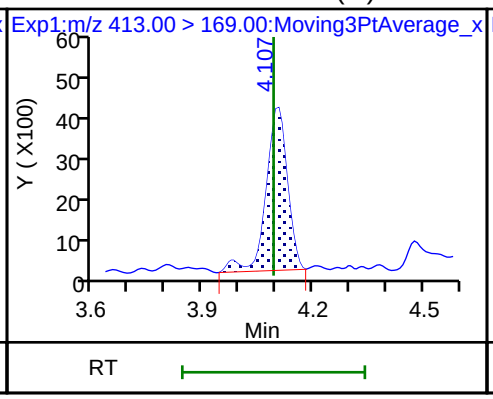

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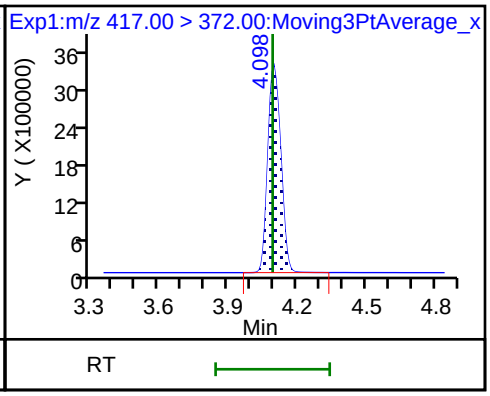

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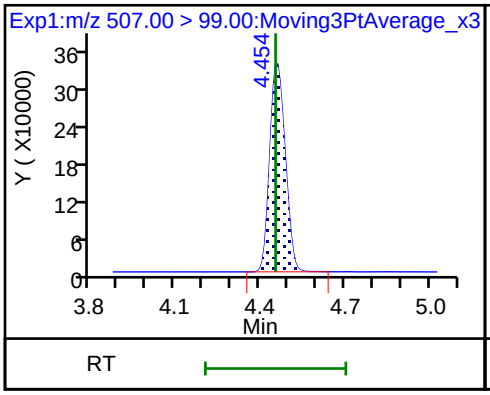

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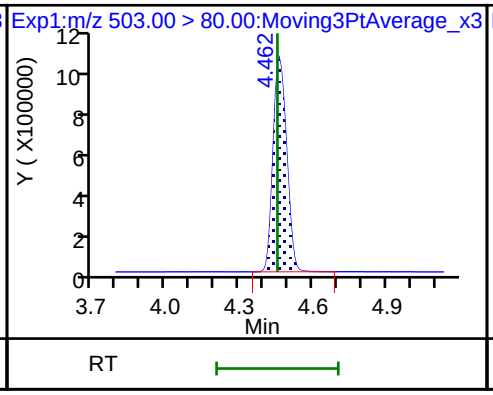

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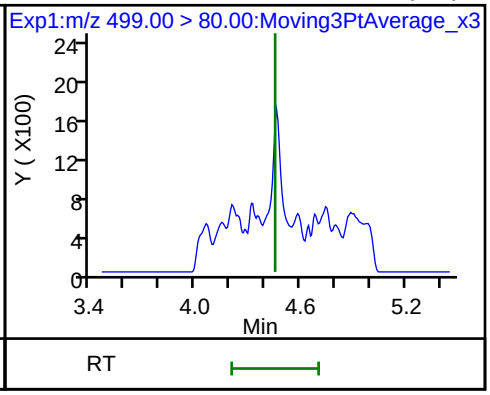

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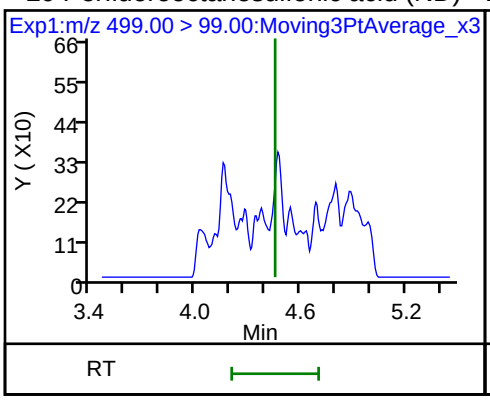

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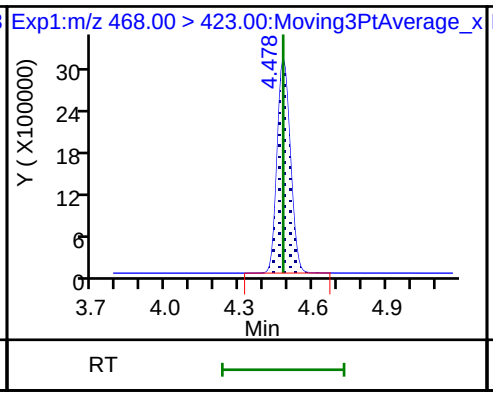

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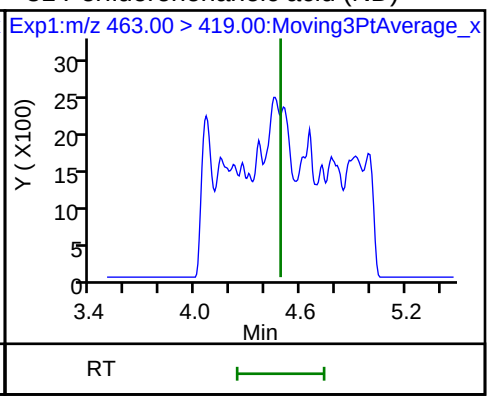

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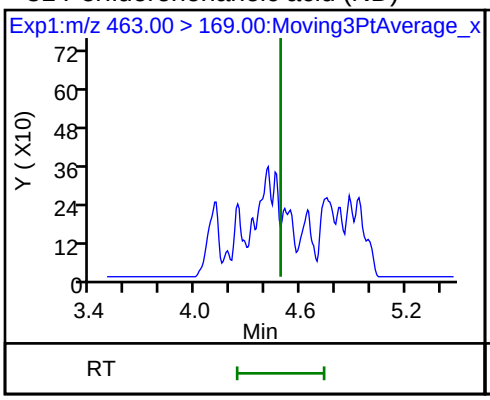

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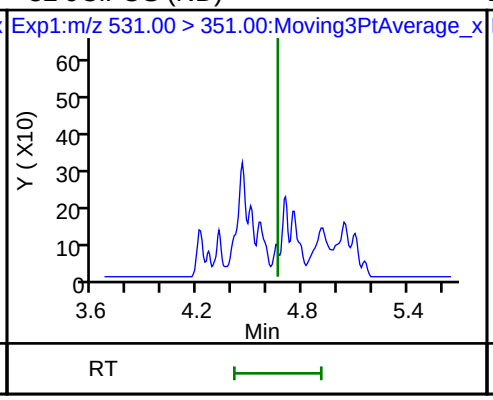

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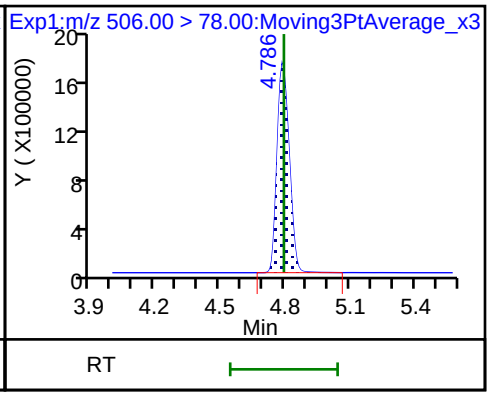

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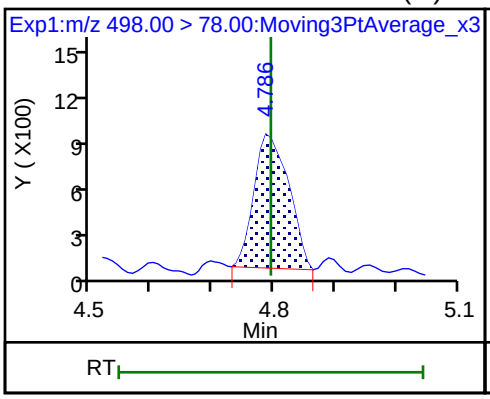

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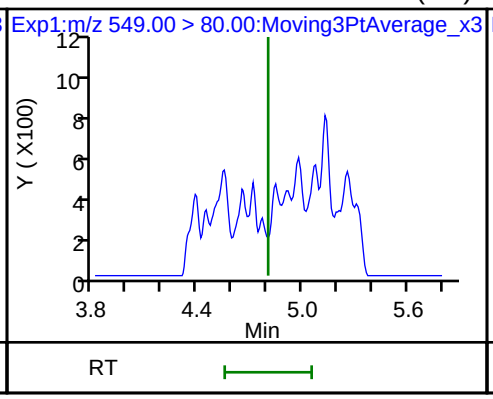

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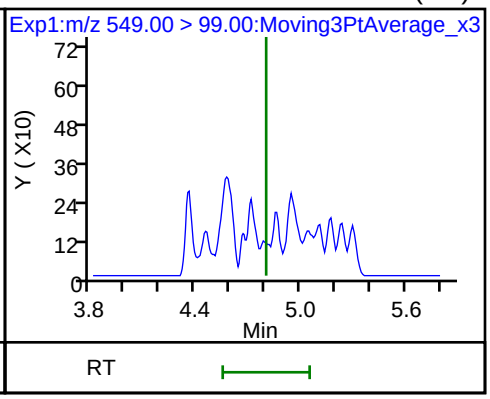

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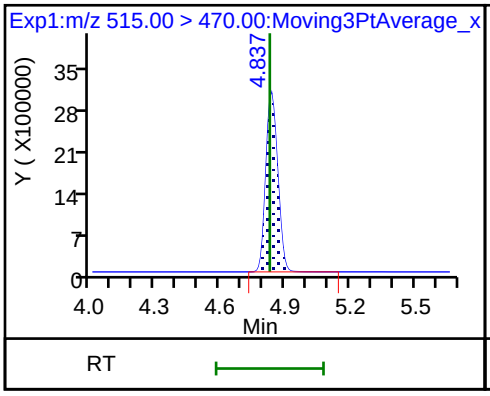

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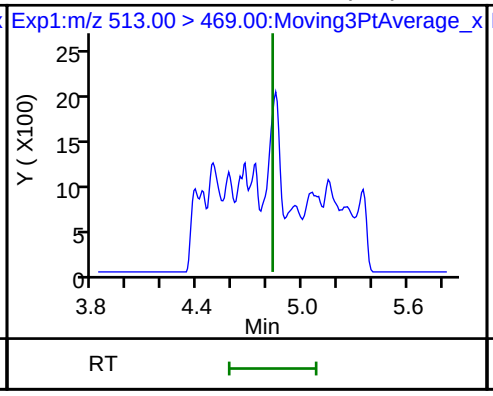

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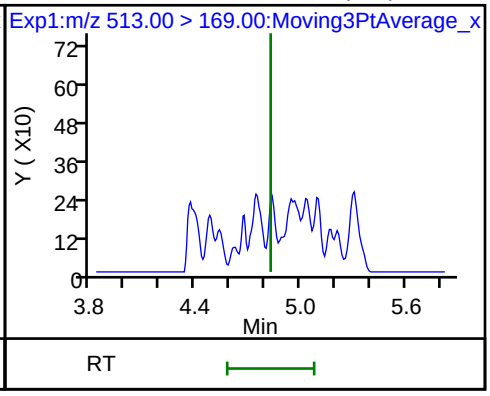

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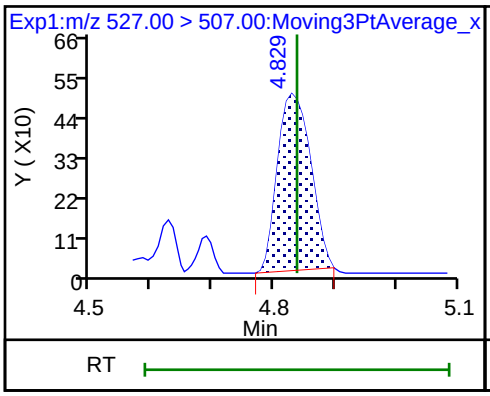

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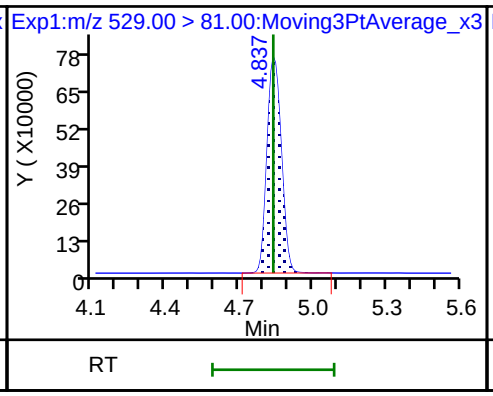

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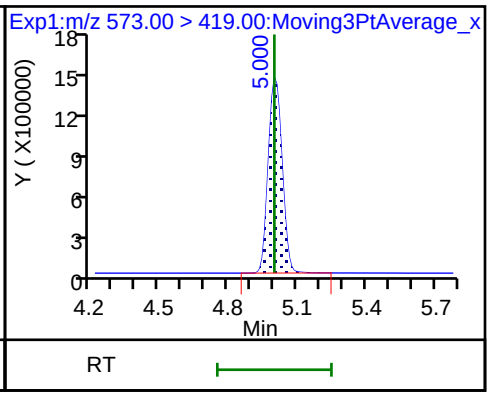
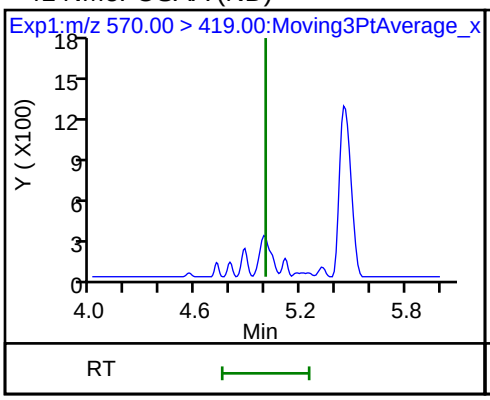


41 NMeFOSAA (ND)



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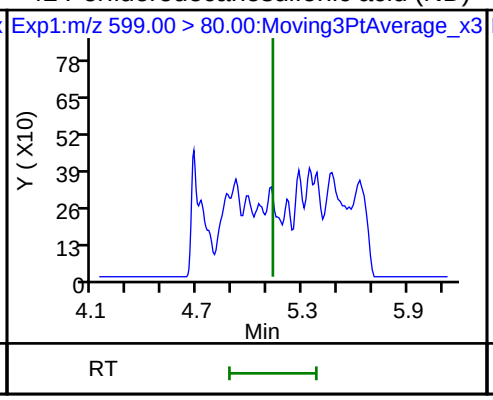

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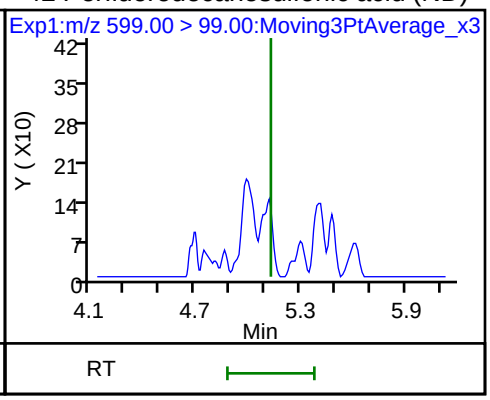

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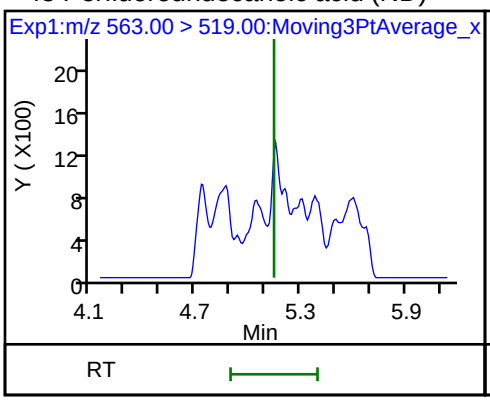

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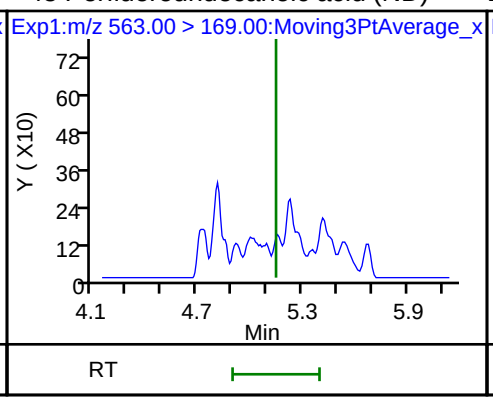
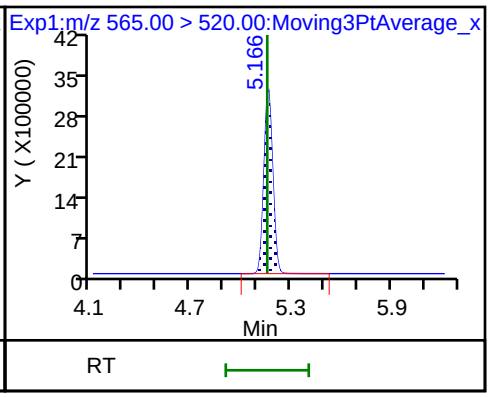


D 43 13C2 PFUnA



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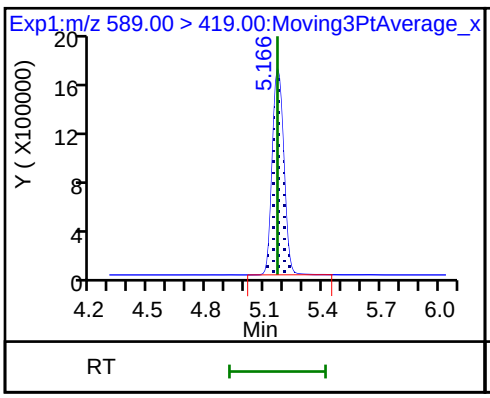

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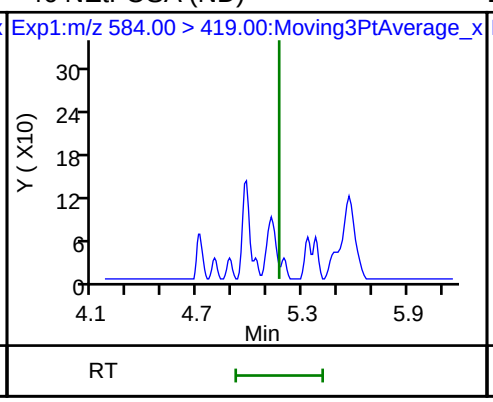

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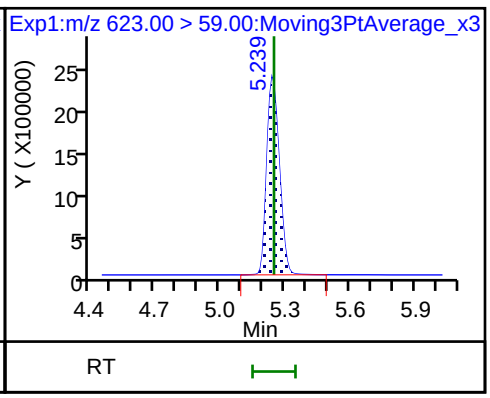
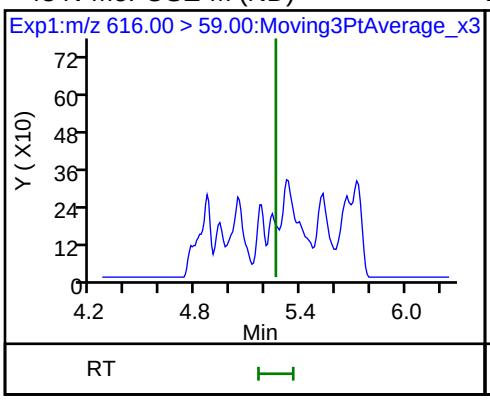
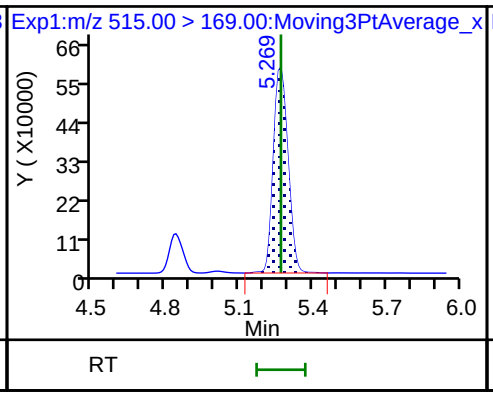


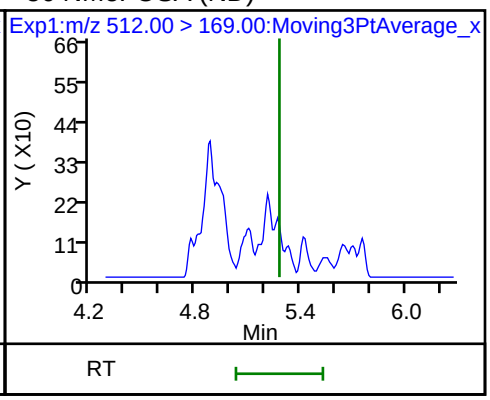
48 N-MeFOSE-M (ND)



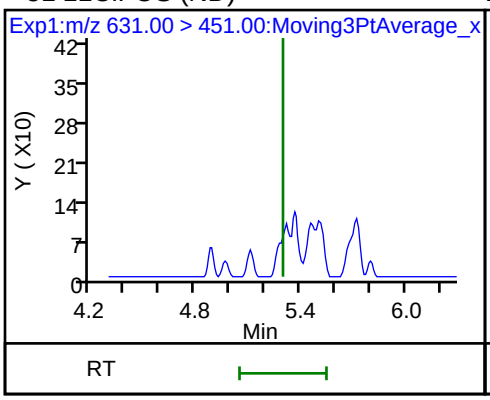
D 49 d-N-MeFOSA-M



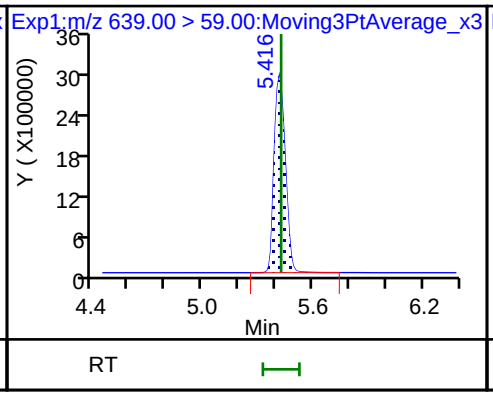
50 NMeFOSA (ND)



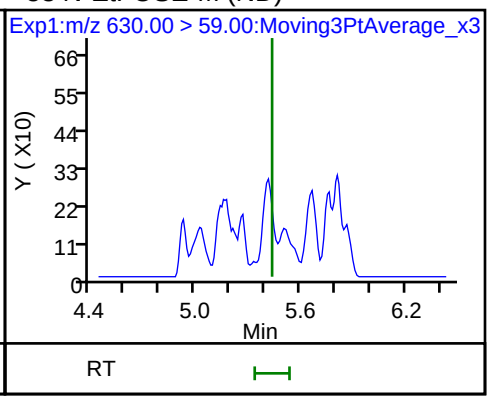
51 11ClFOS (ND)



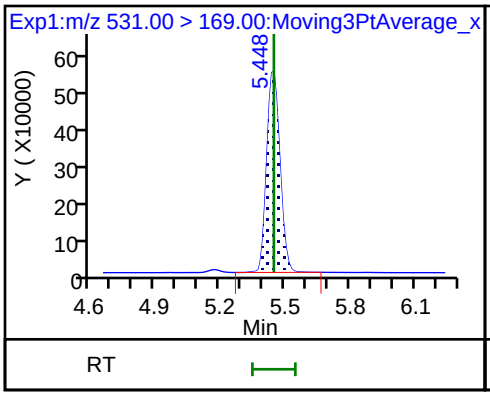
D 52 d9-N-EtFOSE-M



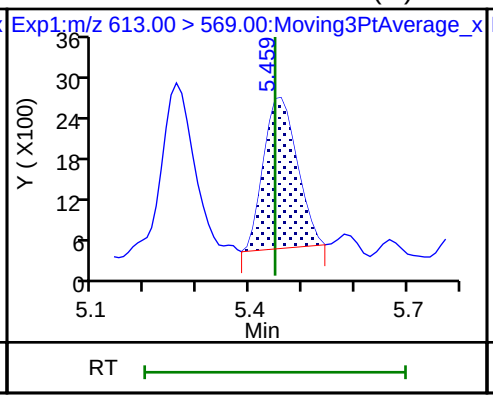
53 N-EtFOSE-M (ND)



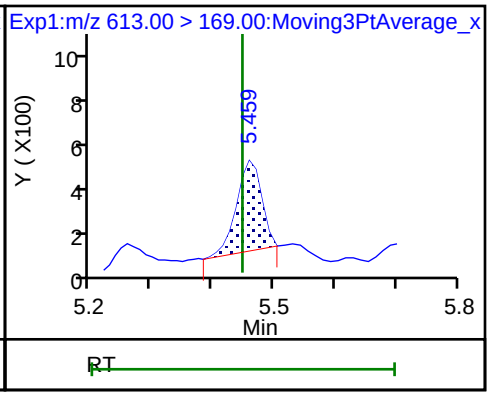
D 54 d-N-EtFOSA-M



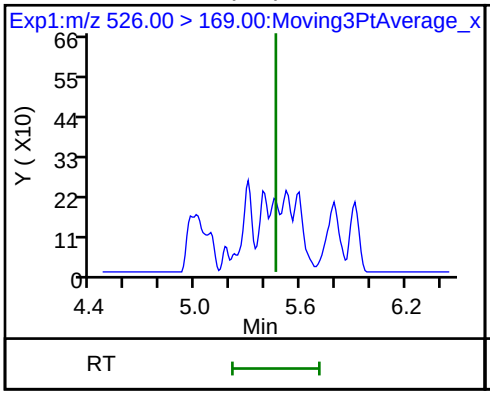
57 Perfluorododecanoic acid (M)



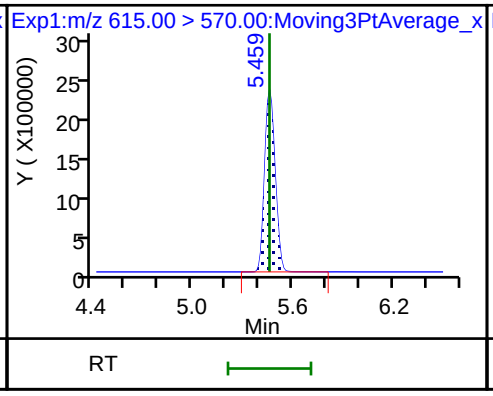
57 Perfluorododecanoic acid



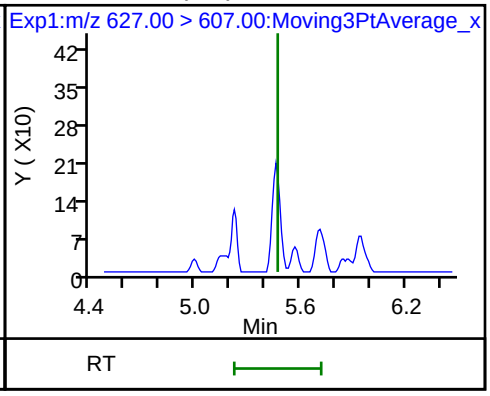
55 N-EtFOSA-M (ND)



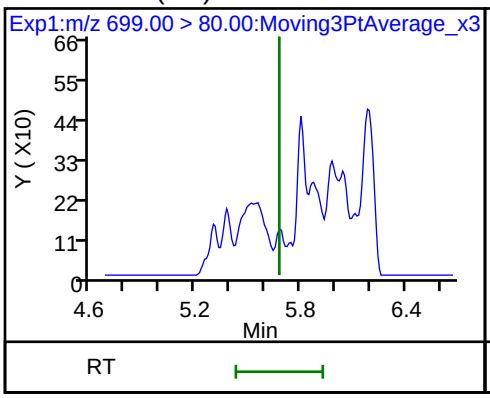
D 56 13C2 PFDoA



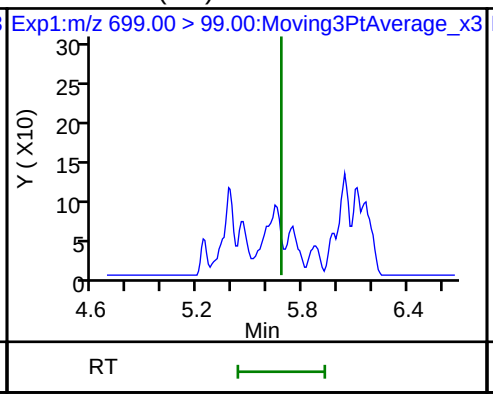
58 10:2 FTS (ND)



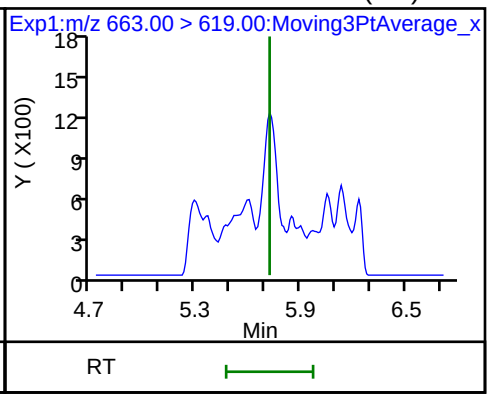
59 PFDoS (ND)



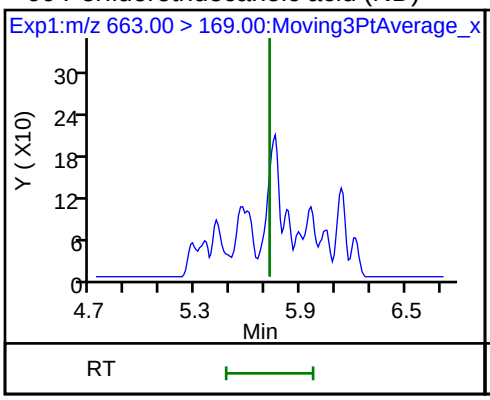
59 PFDoS (ND)



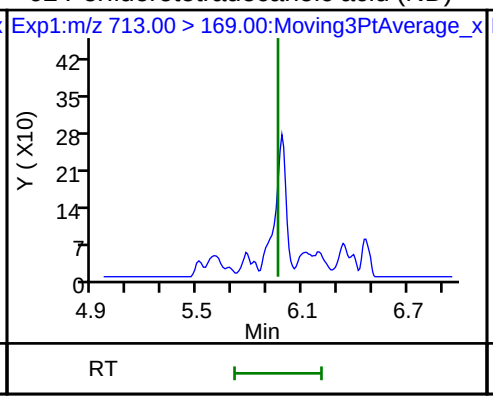
60 Perfluorotridecanoic acid (ND)



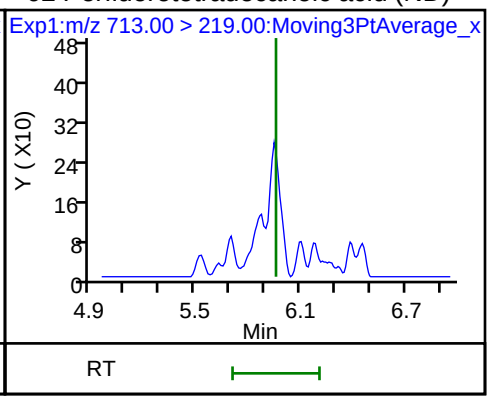
60 Perfluorotridecanoic acid (ND)



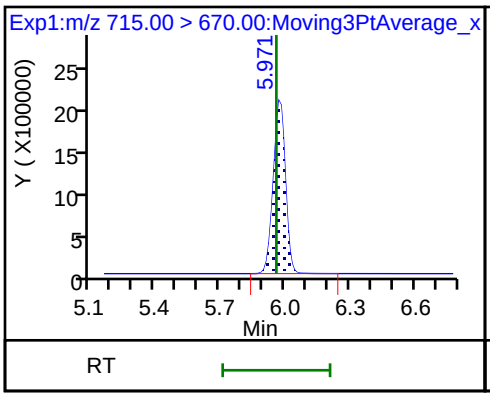
62 Perfluorotetradecanoic acid (ND)



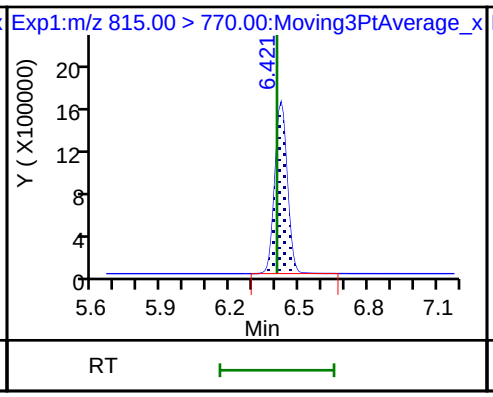
62 Perfluorotetradecanoic acid (ND)



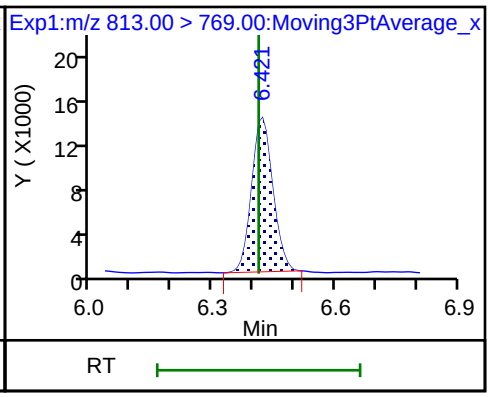
D 61 13C2 PFTeDA



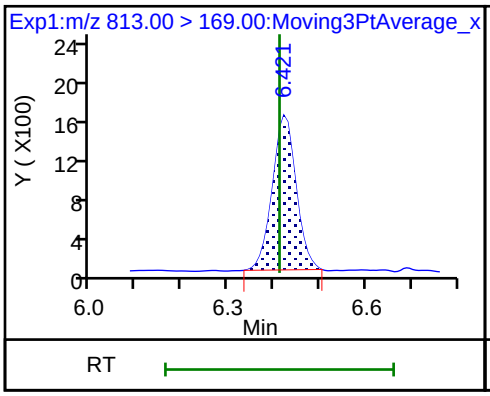
D 64 13C2 PFHxDA



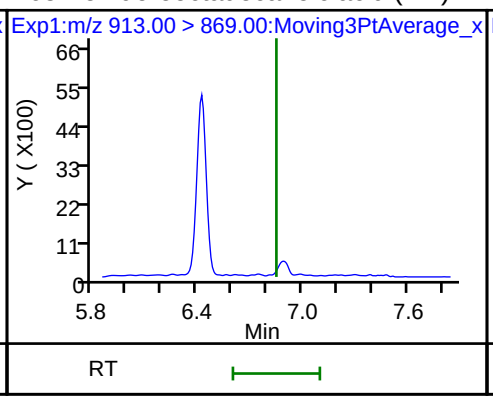
63 Perfluorohexadecanoic acid



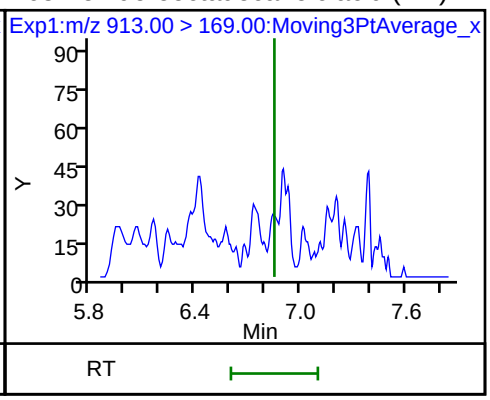
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

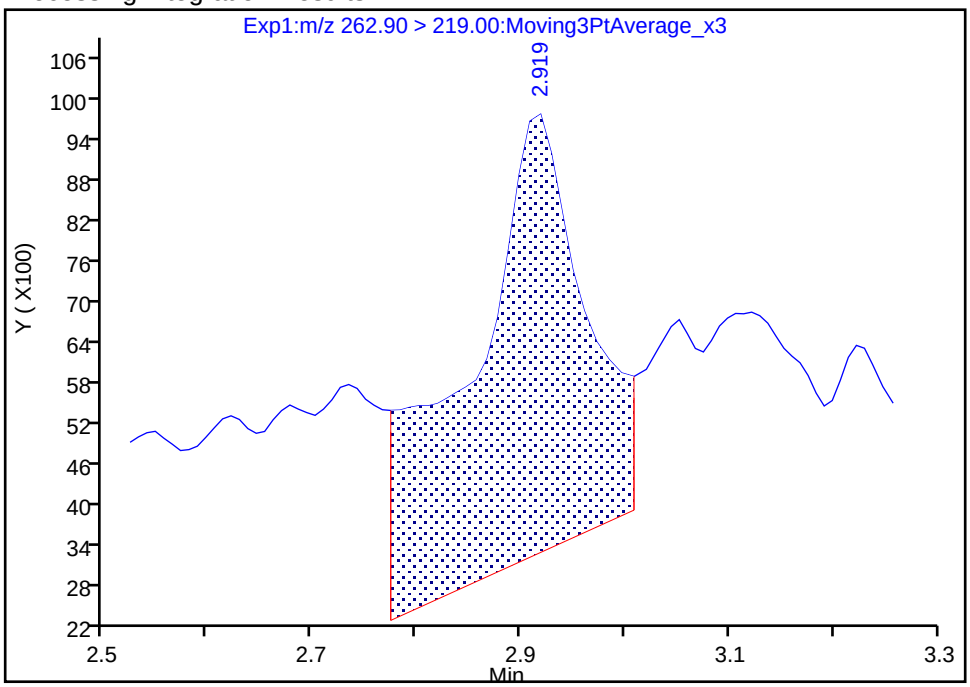
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d				
Injection Date:	11-Sep-2020 10:52:12	Instrument ID:	A18		
Lims ID:	CCB				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	50	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

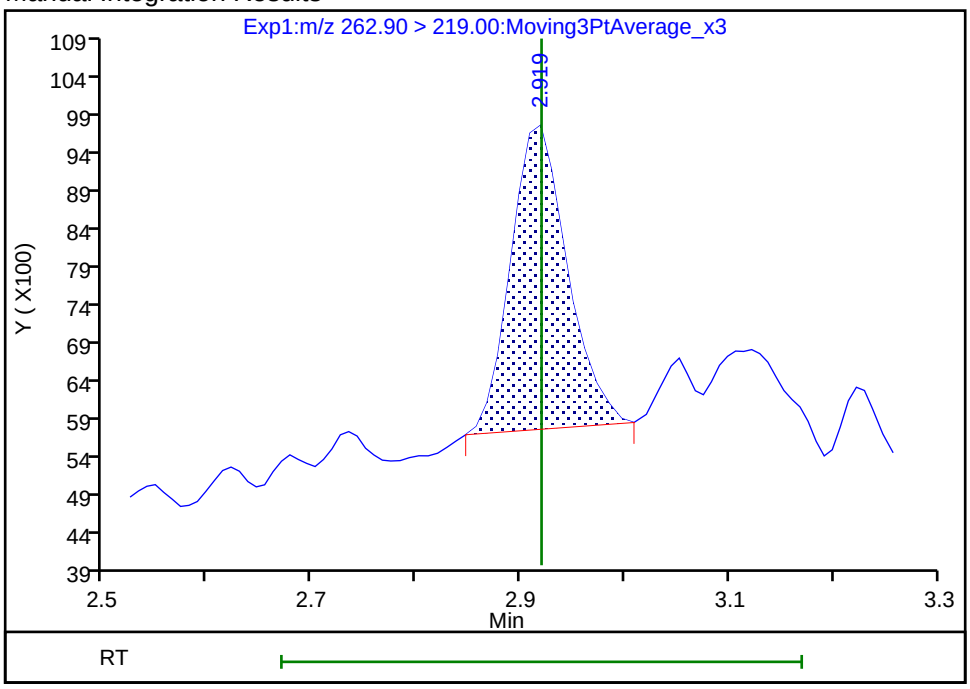
Processing Integration Results

RT: 2.92
Area: 51346
Amount: 0.009335
Amount Units: ng/ml



Manual Integration Results

RT: 2.92
Area: 14873
Amount: 0.002704
Amount Units: ng/ml



Reviewer: fariasa, 11-Sep-2020 11:34:15

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

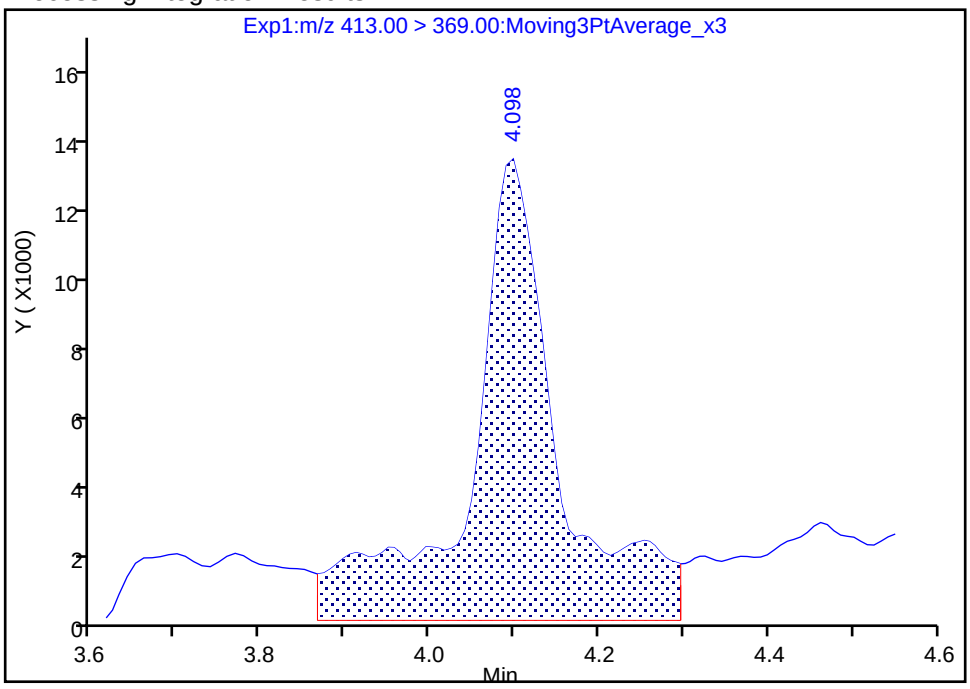
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d				
Injection Date:	11-Sep-2020 10:52:12	Instrument ID:	A18		
Lims ID:	CCB				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	50	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

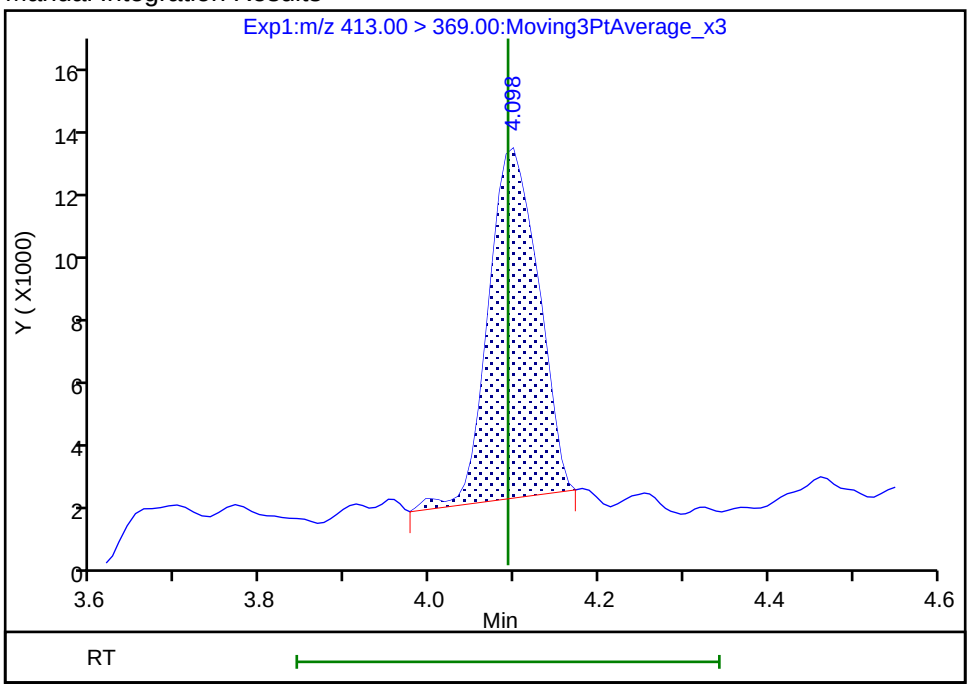
Processing Integration Results

RT: 4.10
Area: 95543
Amount: 0.018098
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 44876
Amount: 0.008500
Amount Units: ng/ml



Reviewer: fariasa, 11-Sep-2020 11:35:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

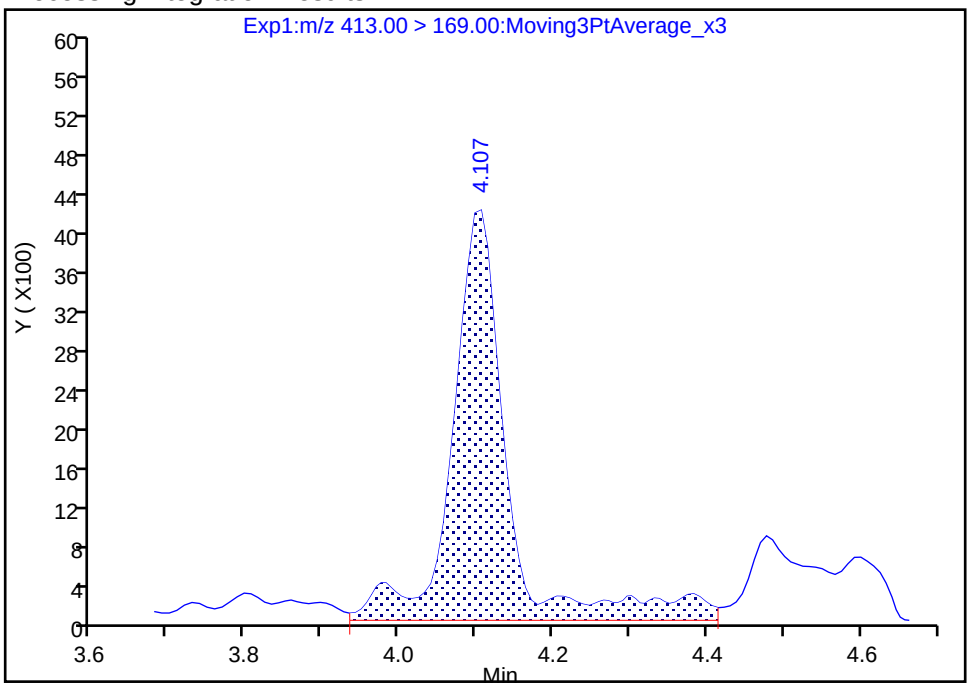
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d				
Injection Date:	11-Sep-2020 10:52:12	Instrument ID:	A18		
Lims ID:	CCB				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	50	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

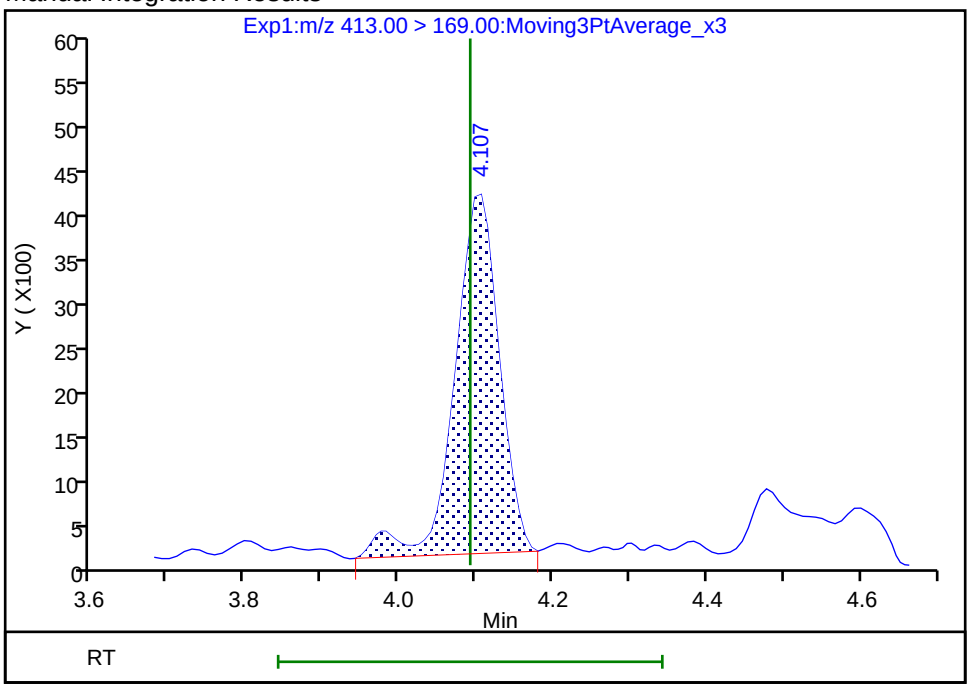
Processing Integration Results

RT: 4.11
Area: 20788
Amount: 0.018098
Amount Units: ng/ml



Manual Integration Results

RT: 4.11
Area: 16258
Amount: 0.008500
Amount Units: ng/ml



Reviewer: fariasa, 11-Sep-2020 11:35:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

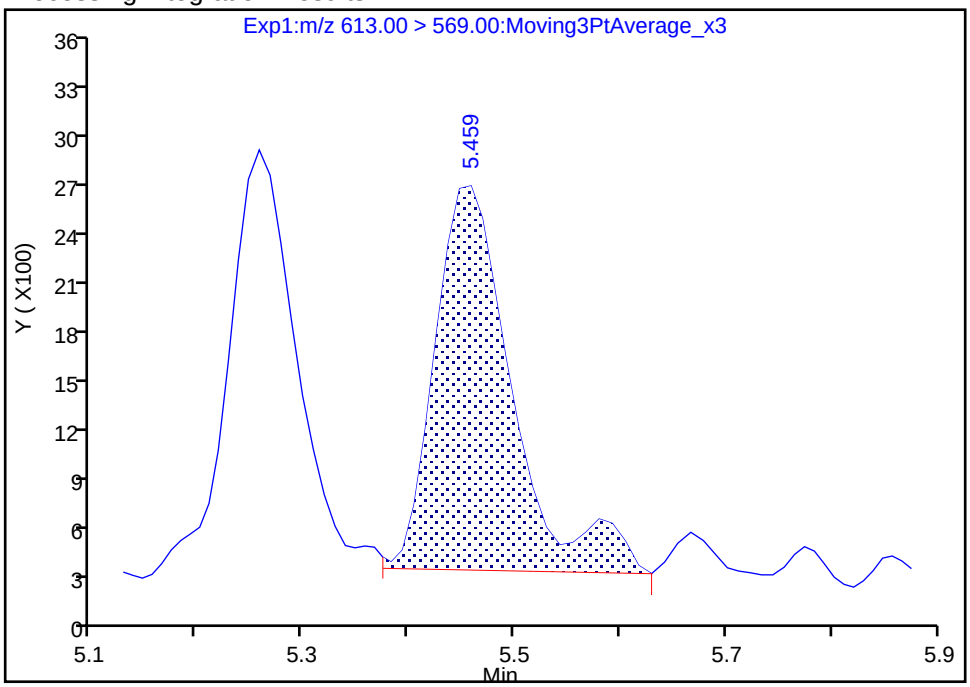
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d				
Injection Date:	11-Sep-2020 10:52:12	Instrument ID:	A18		
Lims ID:	CCB				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	50	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

57 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

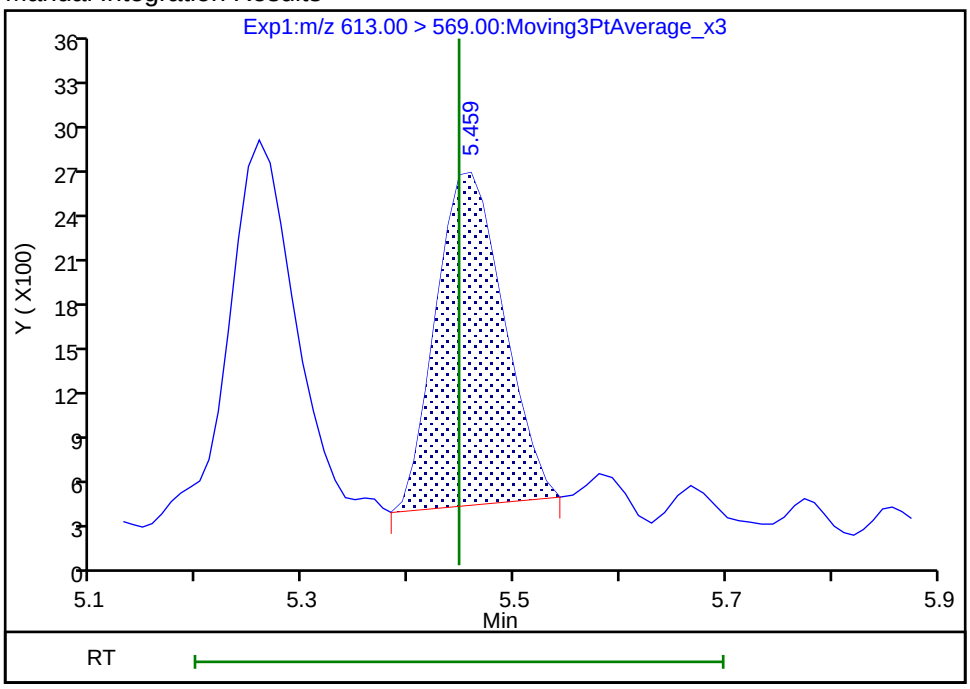
Processing Integration Results

RT: 5.46
Area: 12014
Amount: 0.002934
Amount Units: ng/ml



Manual Integration Results

RT: 5.46
Area: 9989
Amount: 0.002440
Amount Units: ng/ml



Reviewer: fariasa, 11-Sep-2020 11:36:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

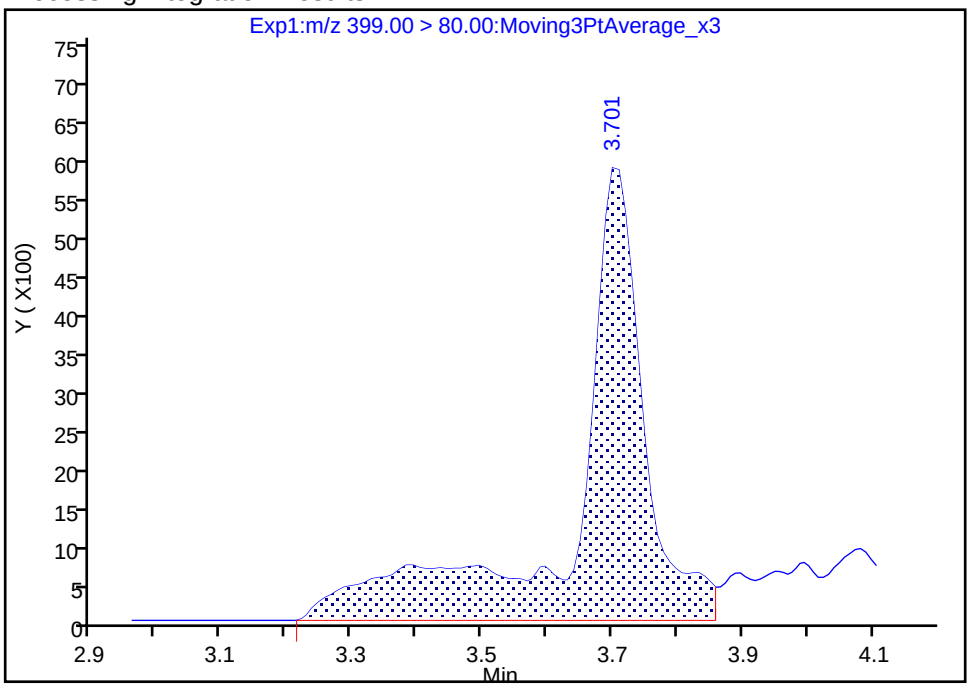
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d
Injection Date: 11-Sep-2020 10:52:12 Instrument ID: A18
Lims ID: CCB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

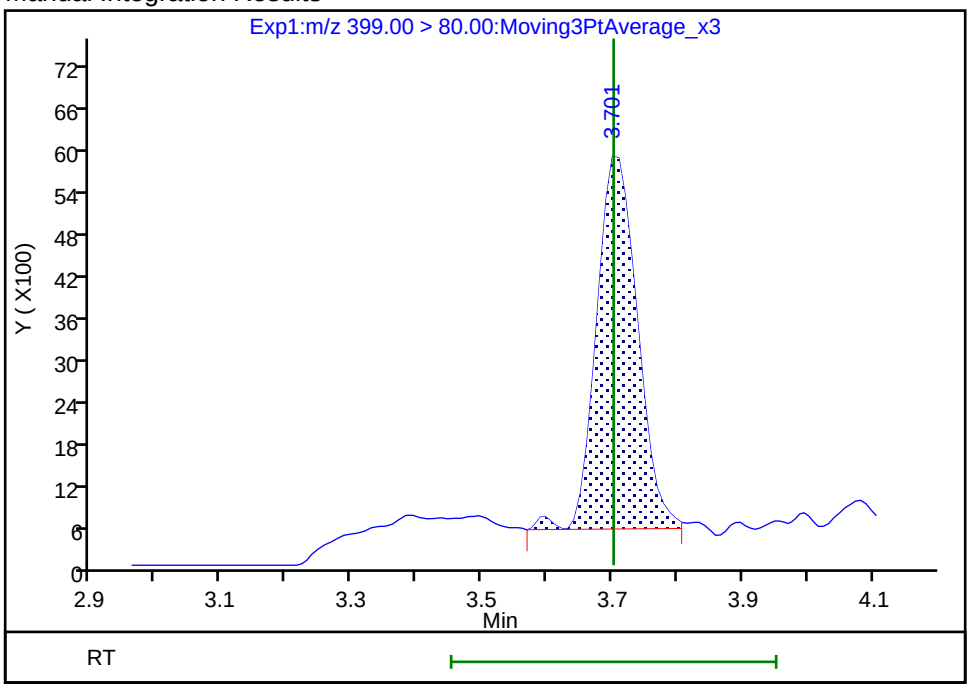
RT: 3.70
Area: 43826
Amount: 0.014263
Amount Units: ng/ml

Processing Integration Results



RT: 3.70
Area: 23354
Amount: 0.007600
Amount Units: ng/ml

Manual Integration Results



Reviewer: sanjumnair, 14-Sep-2020 09:58:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

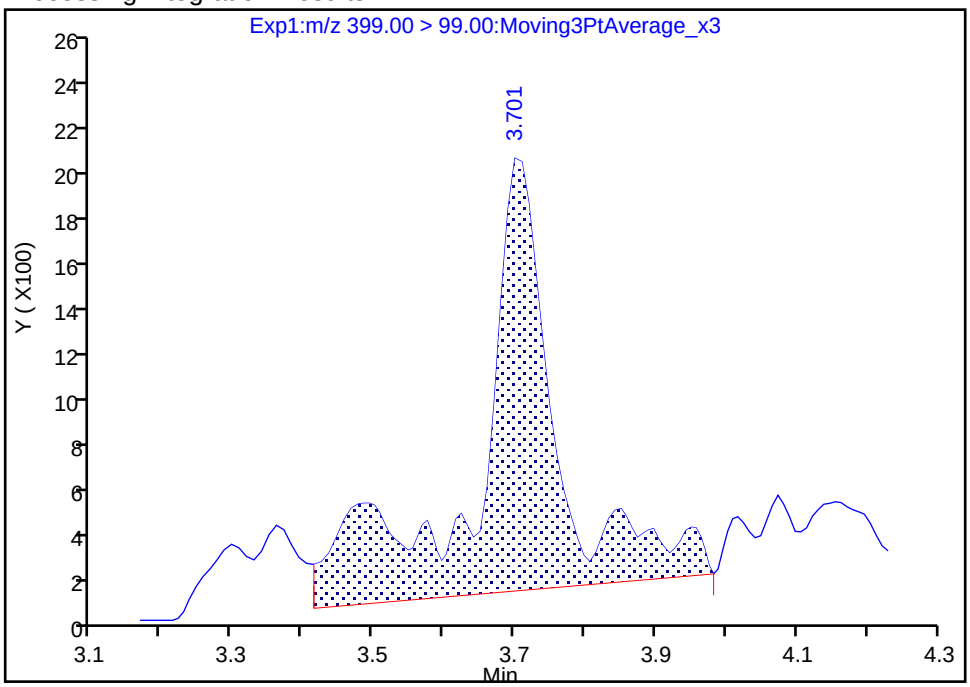
Data File:	\\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d				
Injection Date:	11-Sep-2020 10:52:12	Instrument ID:	A18		
Lims ID:	CCB				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	50	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

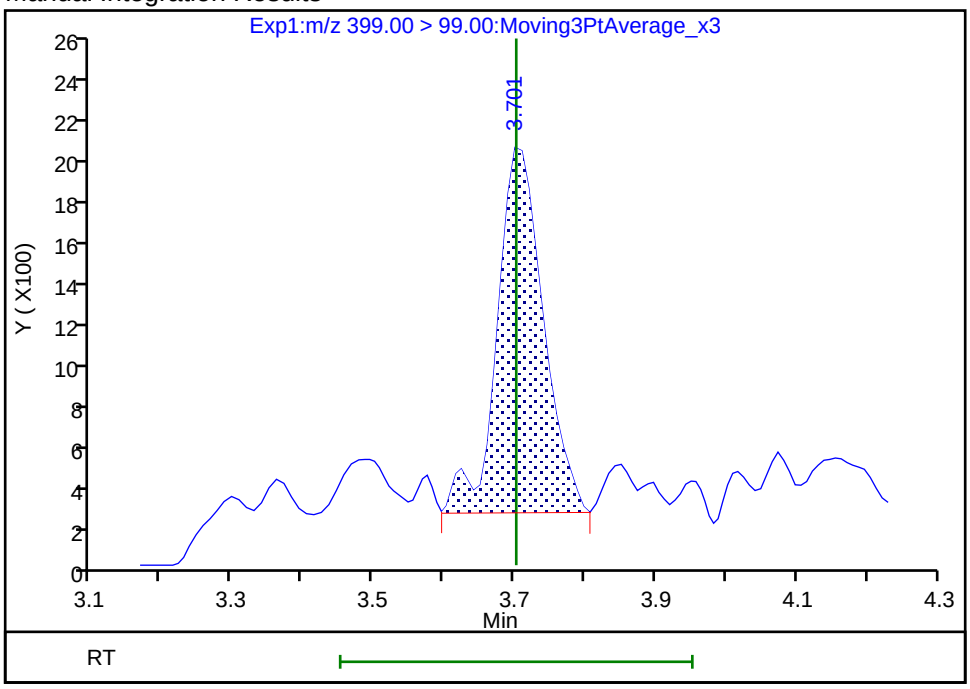
Processing Integration Results

RT: 3.70
Area: 15187
Amount: 0.014263
Amount Units: ng/ml



Manual Integration Results

RT: 3.70
Area: 8140
Amount: 0.007600
Amount Units: ng/ml



Reviewer: sanjumnair, 14-Sep-2020 09:58:26

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

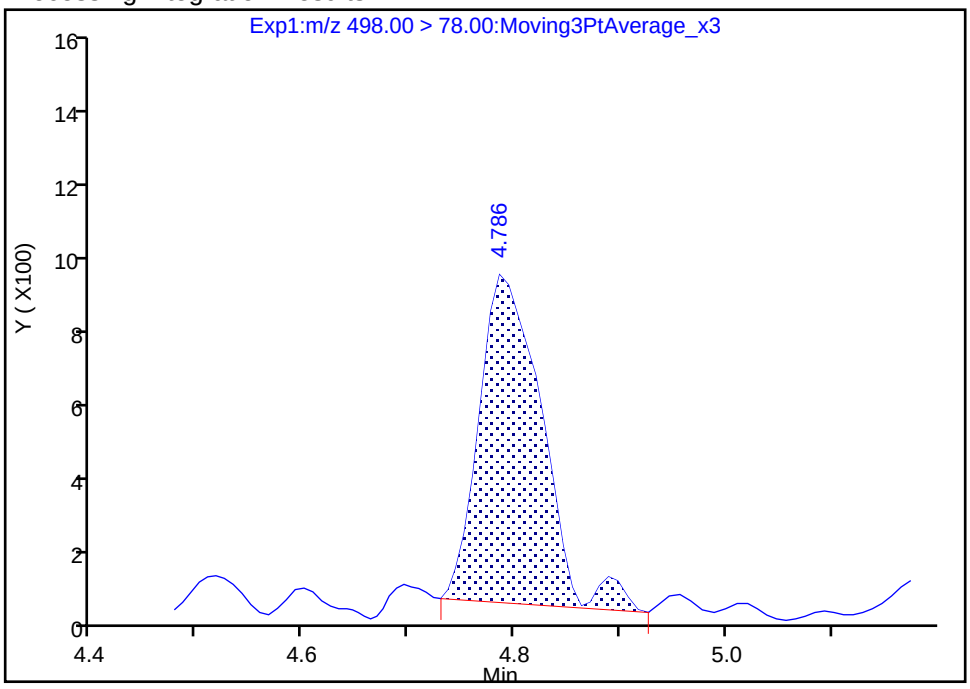
Data File: \\chromfs\Sacramento\ChromData\A18\20200911-103099.b\2020.09.11_A18_PFC_A_004.d
Injection Date: 11-Sep-2020 10:52:12 Instrument ID: A18
Lims ID: CCB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

34 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

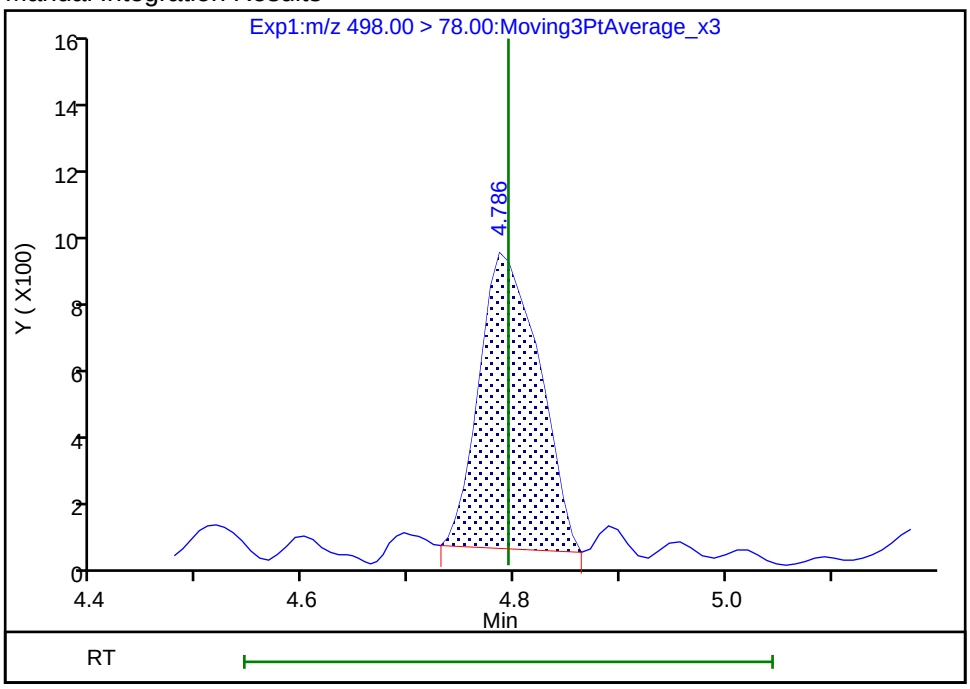
Processing Integration Results

RT: 4.79
Area: 3601
Amount: 0.001420
Amount Units: ng/ml



Manual Integration Results

RT: 4.79
Area: 3425
Amount: 0.001350
Amount Units: ng/ml



Reviewer: fariasa, 11-Sep-2020 11:36:11
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 320-406555/9

Matrix: Water Lab File ID: 2020.08.25_A18_ICAL_A_018.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 08/25/2020 17:47

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 406555 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0073	U	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00808	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 320-406555/9

Matrix: Water Lab File ID: 2020.08.25_A18_ICAL_A_018.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 08/25/2020 17:47

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 406555 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	102		25-150
STL01893	13C5 PFPeA	100		25-150
STL00993	13C2 PFHxA	107		25-150
STL01892	13C4 PFHpA	112		25-150
STL00990	13C4 PFOA	103		25-150
STL00995	13C5 PFNA	102		25-150
STL00996	13C2 PFDA	121		25-150
STL00997	13C2 PFUnA	94		25-150
STL00998	13C2 PFDoA	120		25-150
STL02116	13C2 PFTeDA	101		25-150
STL02337	13C3 PFBS	105		25-150
STL00994	18O2 PFHxS	106		25-150
STL00991	13C4 PFOS	104		25-150
STL01056	13C8 FOSA	102		25-150
STL02118	d3-NMeFOSAA	103		25-150
STL02117	d5-NEtFOSAA	107		25-150
STL02279	M2-6:2 FTS	109		25-150
STL02280	M2-8:2 FTS	108		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 25-Aug-2020 17:47:07 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB (53)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 26-Aug-2020 10:43:41 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1029

First Level Reviewer: fariasa Date: 26-Aug-2020 06:07:53
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.579	2.576	0.003	0.623	17613934	2.54		102	8379	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.938	2.944	-0.006	1.000	14114	0.002628			0.6	
D 4 13C5 PFPeA										
267.90 > 223.00	2.938	2.944	-0.006	0.710	13469361	2.50		100	5360	
D 9 13C3 PFBS										
301.90 > 80.00	2.971	2.979	-0.008	0.718	10300864	2.44		105	4746	
6 Perfluorobutanesulfonic acid										R
298.90 > 80.00	2.971	2.979	-0.008	1.000	1709	0.000382	Target=2.30		0.4	R
298.90 > 99.00	2.959	2.979	-0.020	0.996	1637		1.04(1.15-3.45)		0.7	
8 4:2 FTS										
327.00 > 307.00	3.276	3.297	-0.021	0.997	1060	0.000451			9.2	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.285	3.297	-0.012	0.794	2415401	2.37		101	1040	
D 11 13C2 PFHxA										
315.00 > 270.00	3.328	3.339	-0.011	0.804	14362010	2.67		107	7448	
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.456	3.467	-0.011	0.835	2752139	2.50		100	6883	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.745	3.756	-0.011	1.003	10098	0.001941	Target=3.84		1.2	M
363.00 > 169.00	3.736	3.756	-0.020	1.000	2109		4.79(1.92-5.76)		1.7	M
D 18 13C4 PFHpA										
367.00 > 322.00	3.736	3.756	-0.020	0.903	12831639	2.80		112	5801	
D 17 18O2 PFHxS										
403.00 > 84.00	3.745	3.756	-0.011	0.905	5584890	2.50		106	6048	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.745	3.756	-0.011	1.000	22544	0.008080	Target=3.50		8.3	M
399.00 > 99.00	3.745	3.756	-0.011	1.000	5895		3.82(1.75-5.25)		5.4	M
D 20 M2-6:2 FTS										
429.00 > 81.00	4.121	4.137	-0.016	0.996	2204245	2.58		109	1425	
21 6:2 FTS										
427.00 > 407.00	4.121	4.137	-0.016	1.000	9938	0.004658			15.1	
22 Perfluorooctanoic acid										M
413.00 > 369.00	4.137	4.154	-0.017	1.000	45281	0.009864	Target=2.94		6.8	M
413.00 > 169.00	4.137	4.154	-0.017	1.000	12915		3.51(1.47-4.41)		11.2	M
$ 26 13C8 PFOA										
421.00 > 376.00	4.137	4.154	-0.017	1.000	7515036	2.55		104	6189	
D 25 13C4 PFOA										
417.00 > 372.00	4.137	4.162	-0.025	1.000	11247101	2.57		103	7540	
* 23 13C2 PFOA										
415.00 > 370.00	4.137	4.162	-0.025		10921372	2.50			8440	
$ 28 13C8 PFOS										
507.00 > 99.00	4.507	4.523	-0.016	1.089	1129926	2.39		100	6038	
D 27 13C4 PFOS										
503.00 > 80.00	4.507	4.523	-0.016	1.089	3758763	2.48		104	1772	
D 30 13C5 PFNA										
468.00 > 423.00	4.523	4.540	-0.018	1.093	8943983	2.54		102	9948	
32 9ClFOS										
531.00 > 351.00	4.701	4.730	-0.029	1.043	3658	0.000719			5.5	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.826	4.828	-0.002	1.000	6137	0.002659			20.9	
D 33 13C8 FOSA										
506.00 > 78.00	4.826	4.828	-0.002	1.167	6200213	2.54		102	4944	
D 39 13C2 PFDA										
515.00 > 470.00	4.887	4.897	-0.010	1.181	10354087	3.03		121	10153	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.887	4.907	-0.020	1.181	3176101	2.58		108	1710	
36 8:2 FTS										
527.00 > 507.00	4.895	4.907	-0.012	1.002	3068	0.001303			16.0	
D 40 d3-NMeFOSAA										
573.00 > 419.00	5.046	5.075	-0.029	1.220	5897576	2.57		103	3443	
41 NMeFOSAA										M
570.00 > 419.00	5.065	5.075	-0.010	1.004	27396	0.0157			24.7	M
D 43 13C2 PFUnA										
565.00 > 520.00	5.200	5.229	-0.029	1.257	7961463	2.35		94.0	7968	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.218	5.238	-0.020	1.261	6491421	2.67		107	4410	
46 NEtFOSA										M
584.00 > 419.00	5.227	5.248	-0.021	1.002	32585	0.0186			34.7	M
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.267	5.279	-0.012	1.273	8642745	14.3		114	3389	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.287	5.299	-0.012	1.278	2263875	2.64		105	54.6	
51 11ClFOS										
631.00 > 451.00	5.357	5.375	-0.018	1.189	10896	0.001689			19.5	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.446	5.448	-0.002	1.317	9242300	12.4		99.6	2375	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.468	5.469	-0.001	1.322	2195925	2.50		100.0	488	
55 N-EtFOSA-M										
526.00 > 169.00	5.503	5.480	0.022	1.006	2013	0.002165			3.2	
D 56 13C2 PFDoA										
615.00 > 570.00	5.503	5.530	-0.028	1.330	10009210	2.99		120	8347	
58 10:2 FTS										
627.00 > 607.00	5.541	5.555	-0.014	1.134	3605	0.001350			17.8	
D 61 13C2 PFTeDA										
715.00 > 670.00	6.022	6.053	-0.031	1.456	6955741	2.52		101	11424	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.481	6.530	-0.049	1.567	4723443	2.34		93.6	4275	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.490	6.530	-0.040	1.001	53434	0.008378	Target=10.21		38.9	
813.00 > 169.00	6.481	6.530	-0.049	1.000	5610		9.52(5.11-15.32)		43.9	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00053 Amount Added: 1.00 Units: mL

Report Date: 26-Aug-2020 10:43:58 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d

Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18

Lims ID: ICB

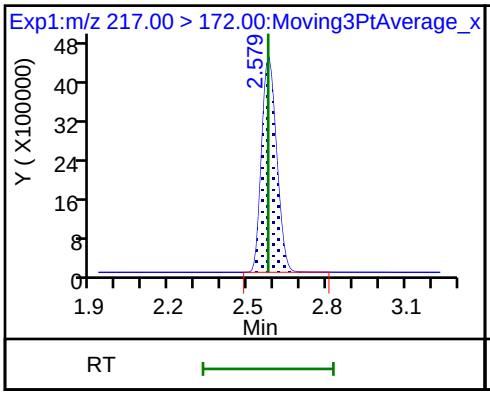
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9

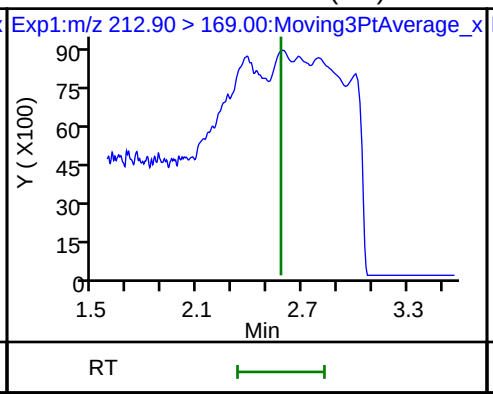
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

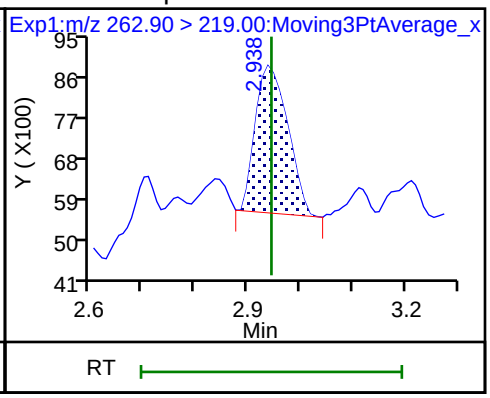
D 1 13C4 PFBA



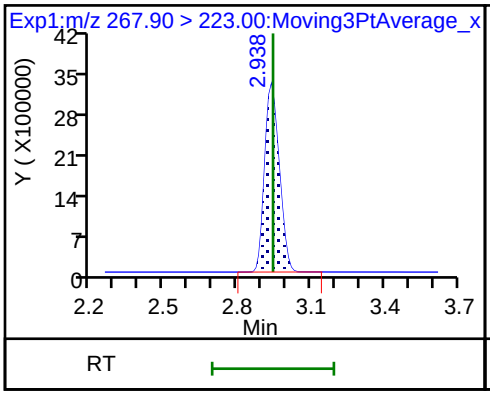
2 Perfluorobutanoic acid (ND)



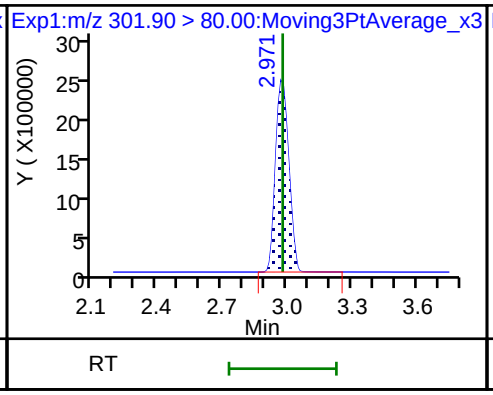
5 Perfluoropentanoic acid



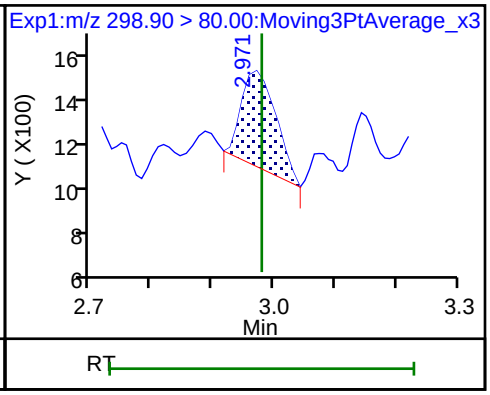
D 4 13C5 PFPeA



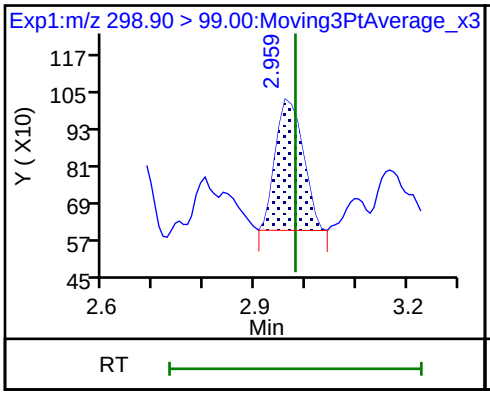
D 9 13C3 PFBS



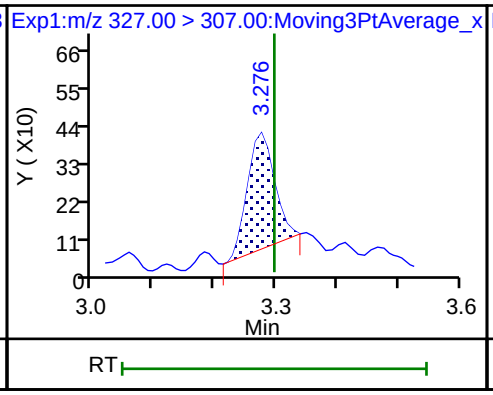
6 Perfluorobutanesulfonic acid



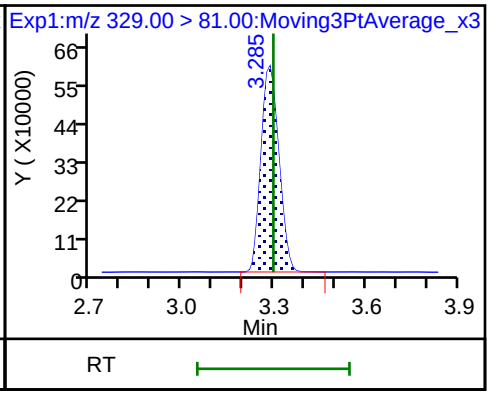
6 Perfluorobutanesulfonic acid



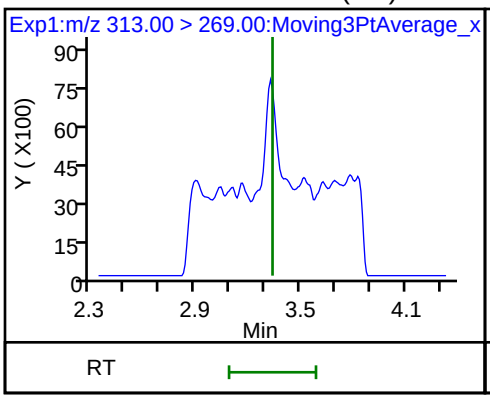
8 4:2 FTS



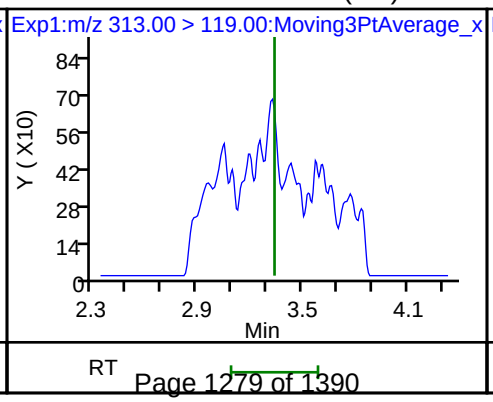
D 7 M2-4:2 FTS



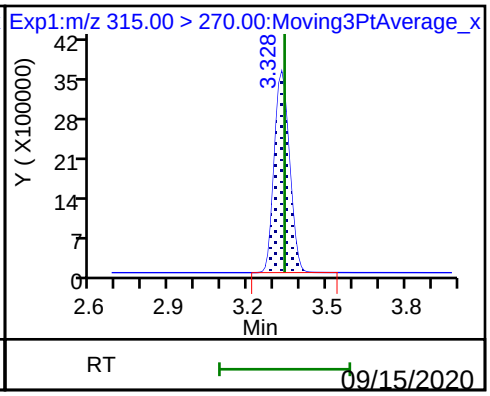
10 Perfluorohexanoic acid (ND)



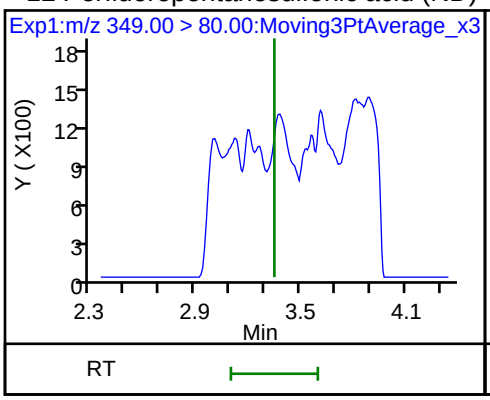
10 Perfluorohexanoic acid (ND)



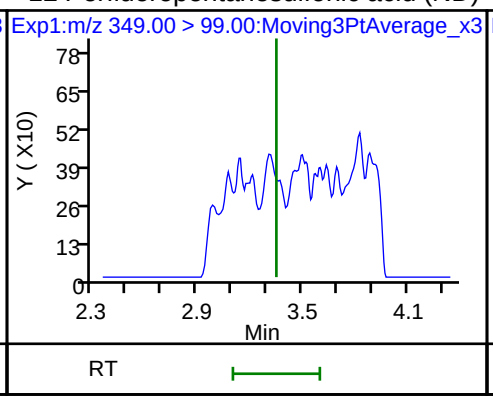
D 11 13C2 PFHxA



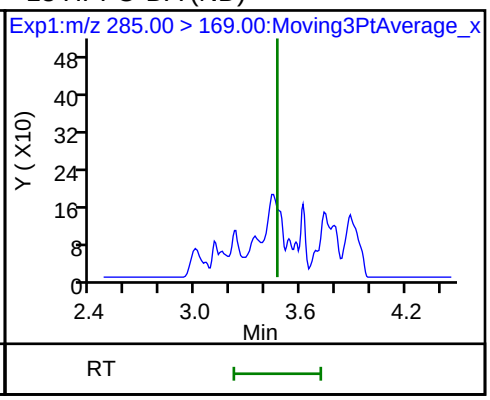
12 Perfluoropentanesulfonic acid (ND)



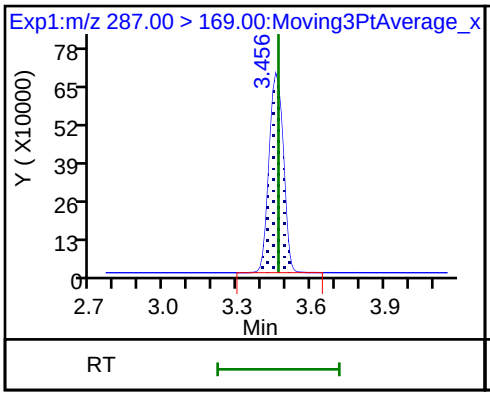
12 Perfluoropentanesulfonic acid (ND)



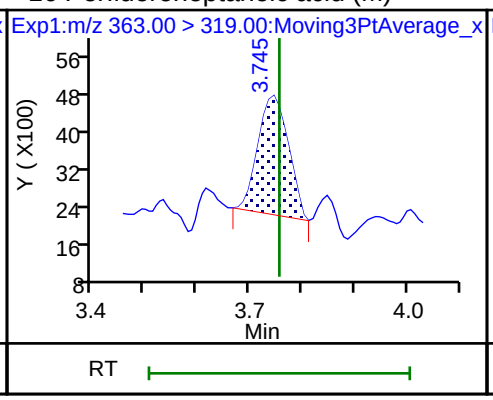
13 HPFO-DA (ND)



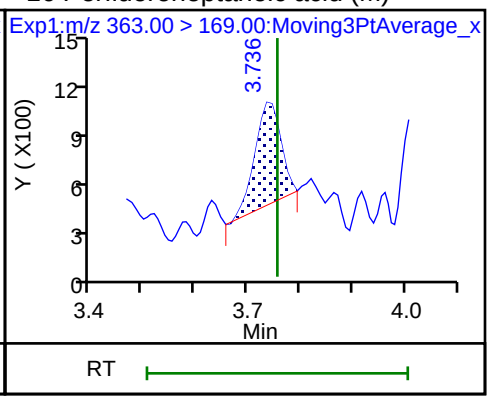
D 14 13C3 HFPO-DA



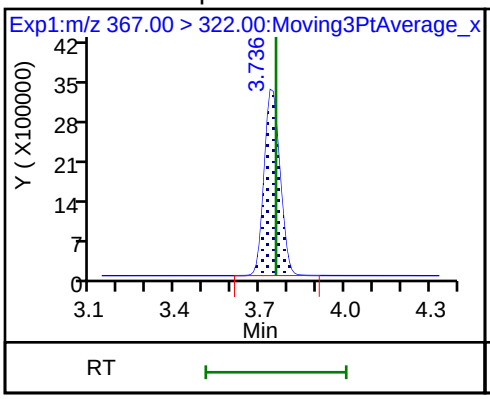
16 Perfluoroheptanoic acid (M)



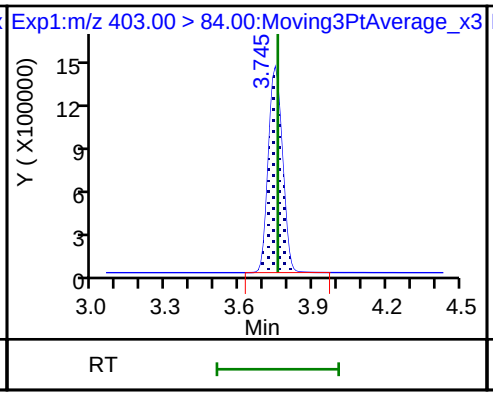
16 Perfluoroheptanoic acid (M)



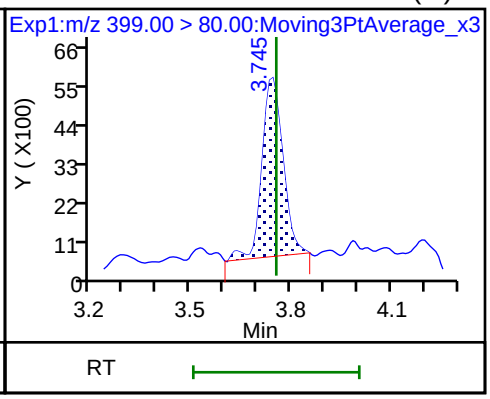
D 18 13C4 PFHpA



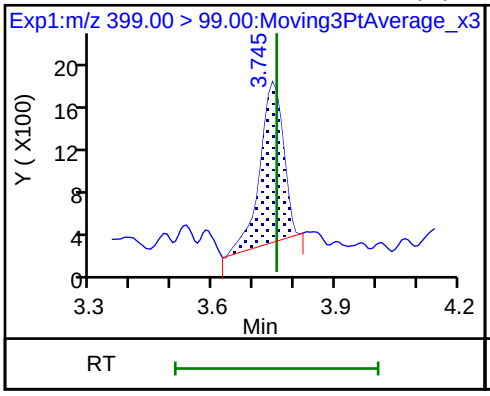
D 17 18O2 PFHxS



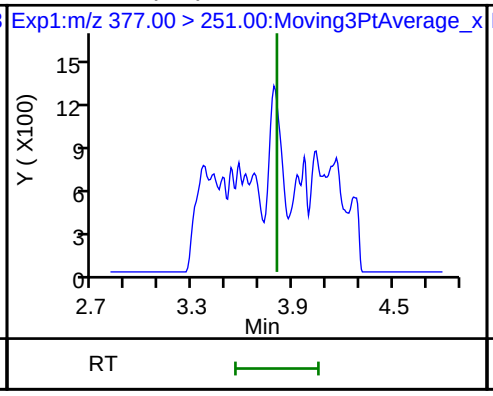
15 Perfluorohexanesulfonic acid (M)



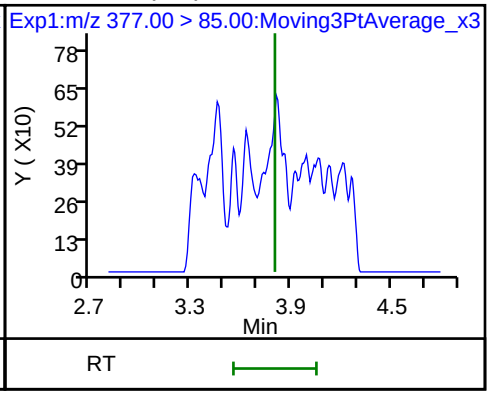
15 Perfluorohexanesulfonic acid (M)



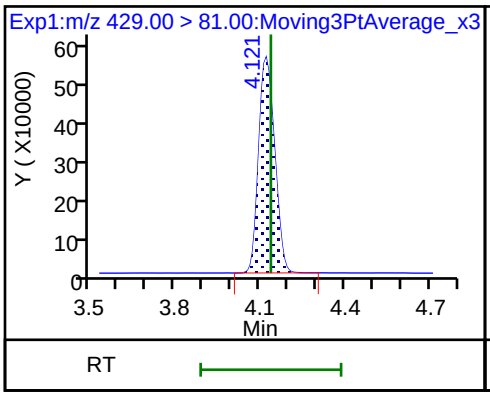
19 DONA (ND)



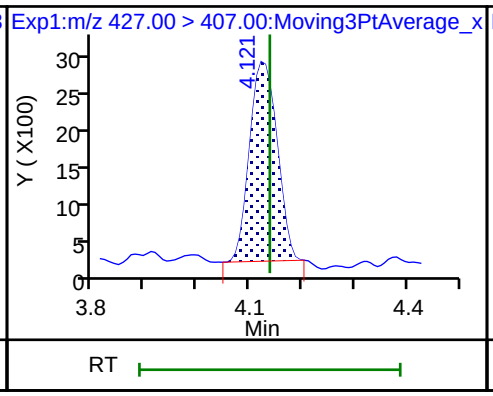
19 DONA (ND)



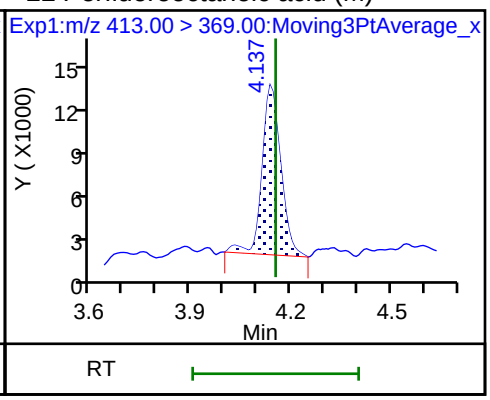
D 20 M2-6:2 FTS



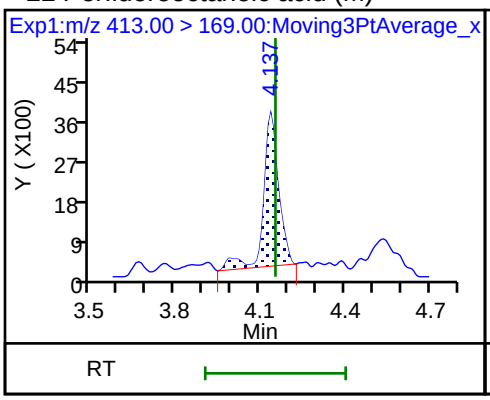
21 6:2 FTS



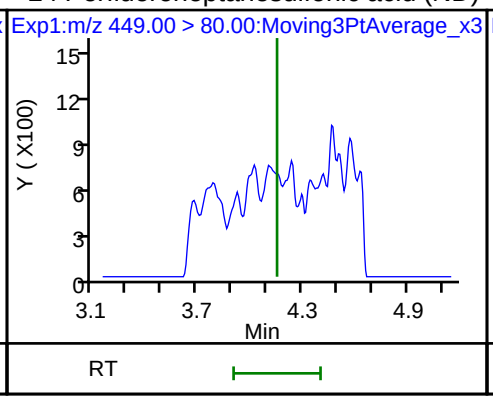
22 Perfluorooctanoic acid (M)



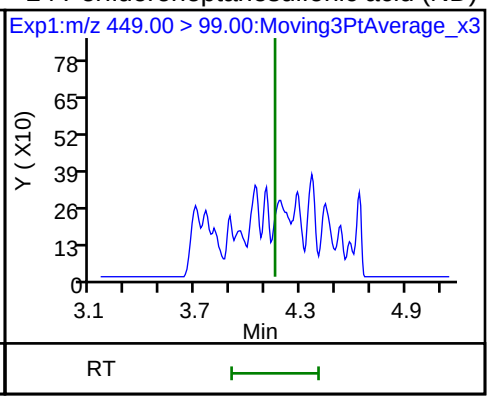
22 Perfluorooctanoic acid (M)



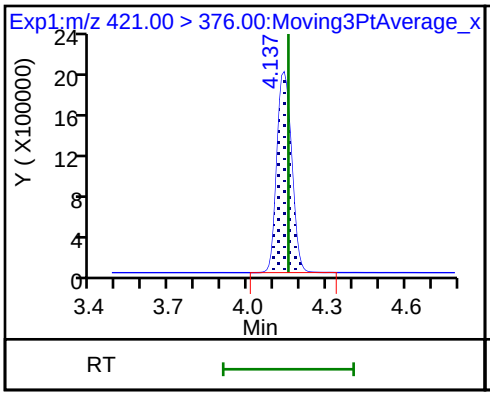
24 Perfluoroheptanesulfonic acid (ND)



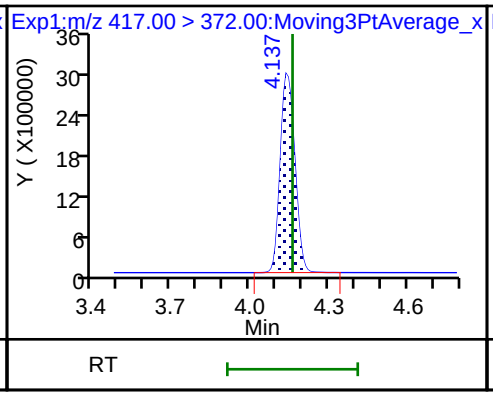
24 Perfluoroheptanesulfonic acid (ND)



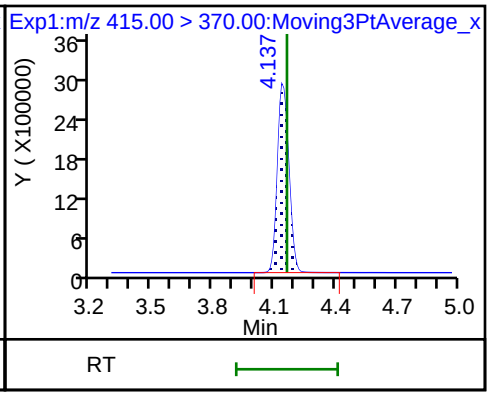
$ 26 13C8 PFOA



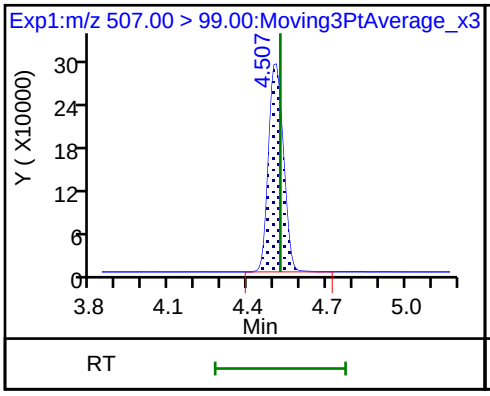
D 25 13C4 PFOA



* 23 13C2 PFOA



$ 28 13C8 PFOS



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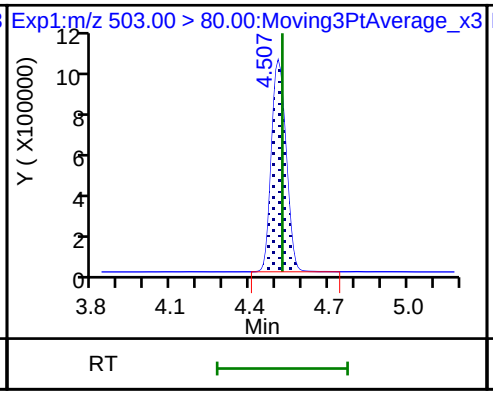
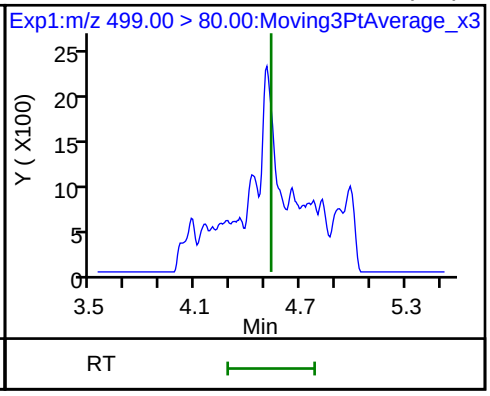
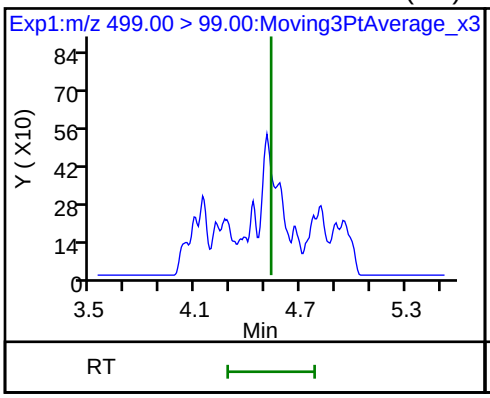


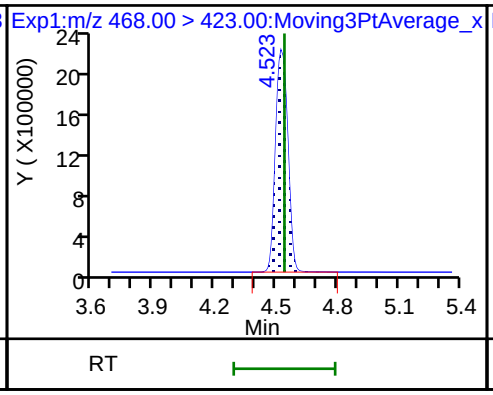
29 Perfluorooctanesulfonic acid (ND)



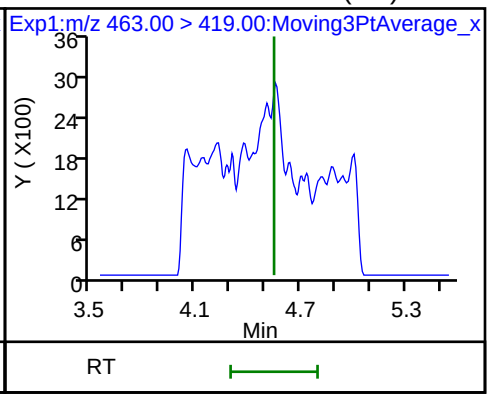
29 Perfluorooctanesulfonic acid (ND)



D 30 13C5 PFNA



31 Perfluorononanoic acid (ND)



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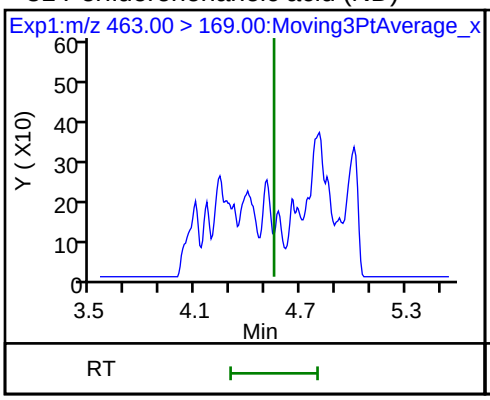
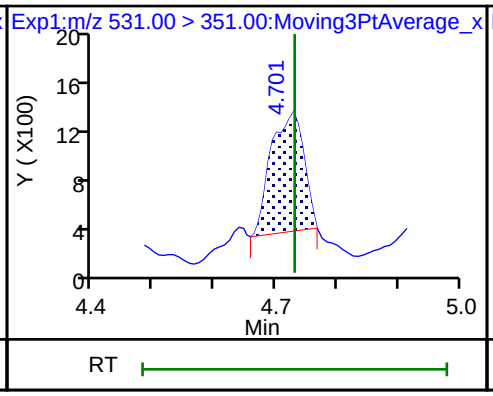
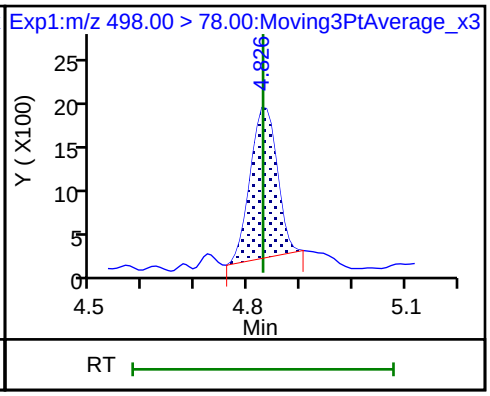


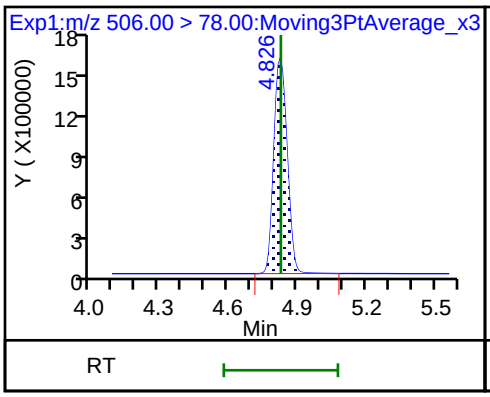
32 9ClFOS



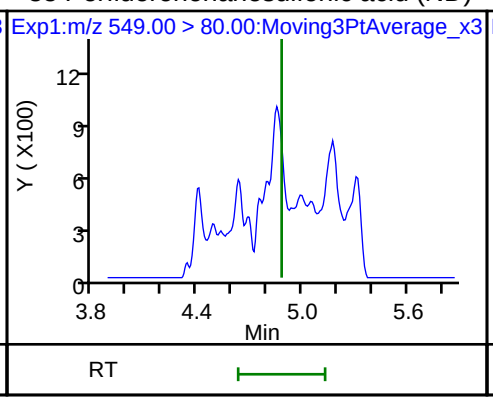
34 Perfluorooctanesulfonamide



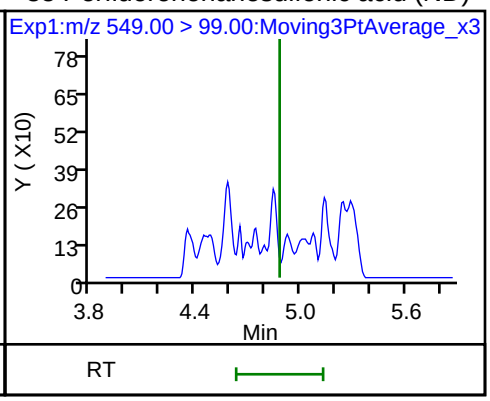
D 33 13C8 FOSA



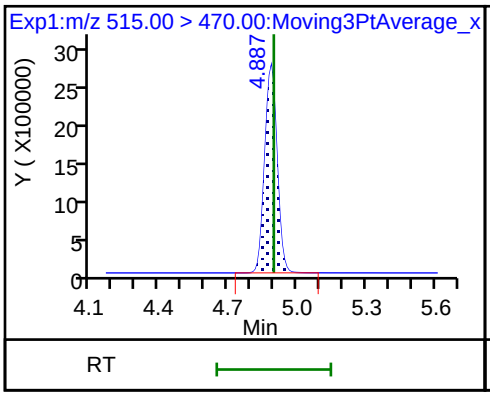
35 Perfluorononanesulfonic acid (ND)



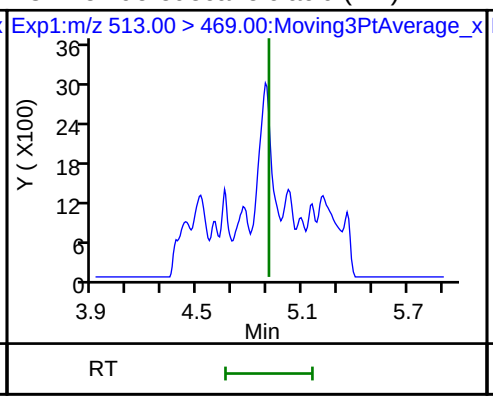
35 Perfluorononanesulfonic acid (ND)



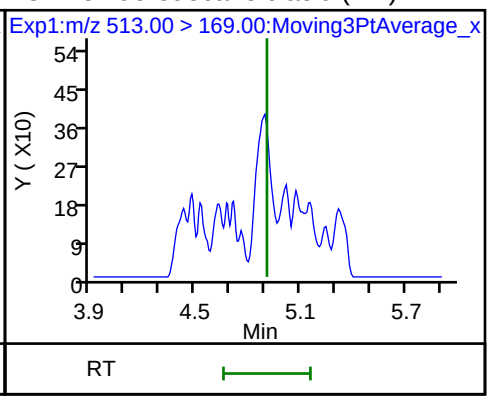
D 39 13C2 PFDA



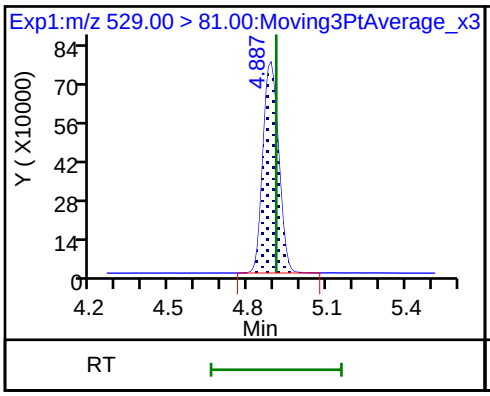
37 Perfluorodecanoic acid (ND)



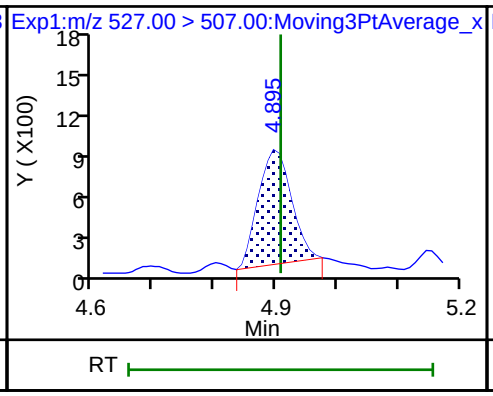
37 Perfluorodecanoic acid (ND)



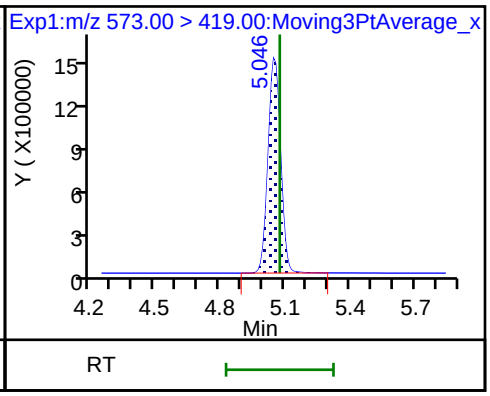
D 38 M2-8:2 FTS



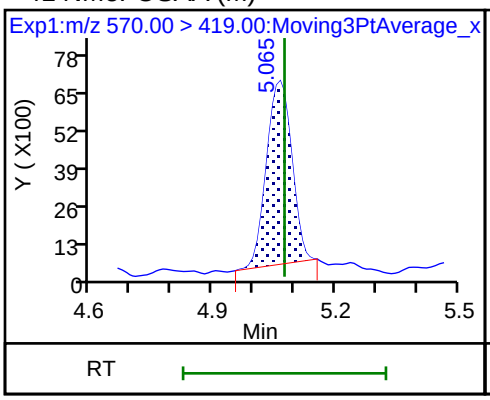
36 8:2 FTS



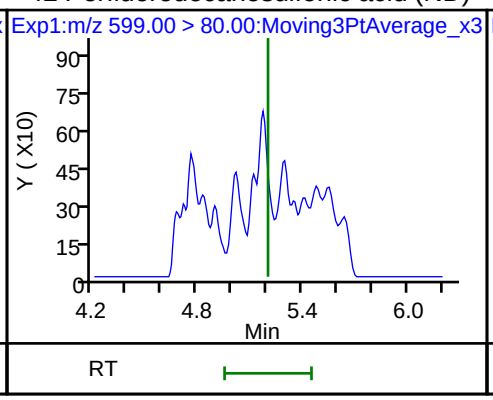
D 40 d3-NMeFOSAA



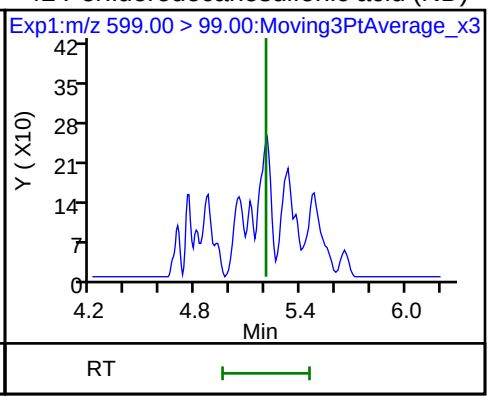
41 NMeFOSAA (M)



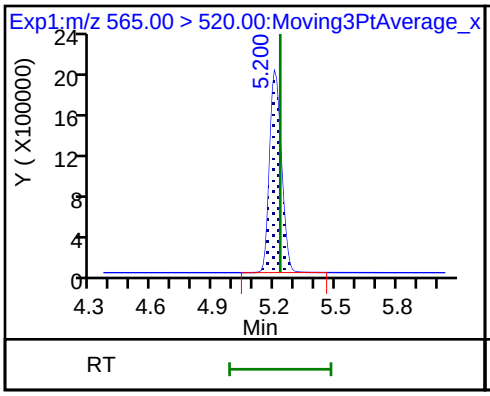
42 Perfluorodecanesulfonic acid (ND)



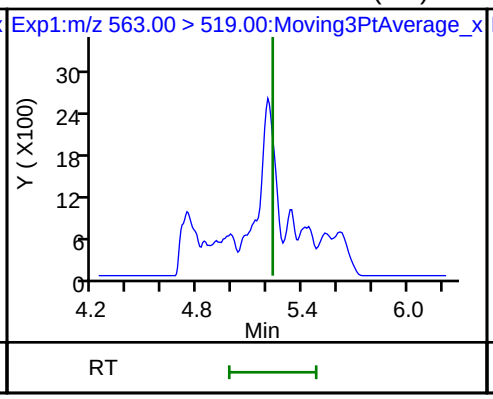
42 Perfluorodecanesulfonic acid (ND)



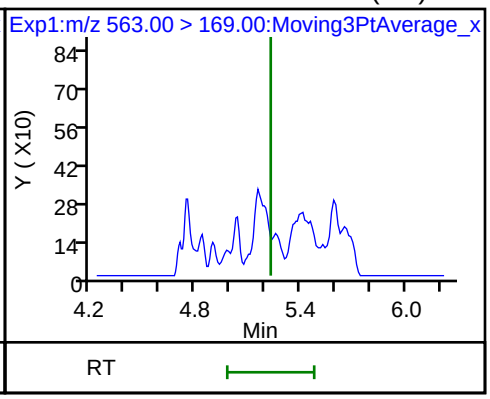
D 43 13C2 PFUnA



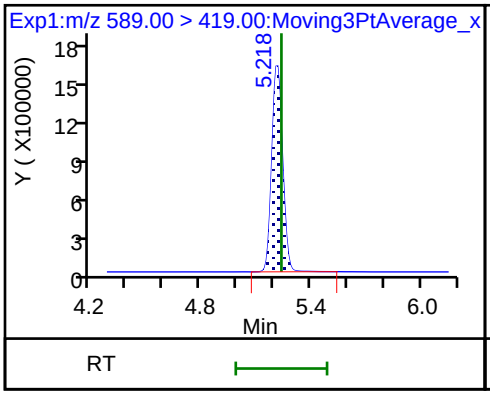
45 Perfluoroundecanoic acid (ND)



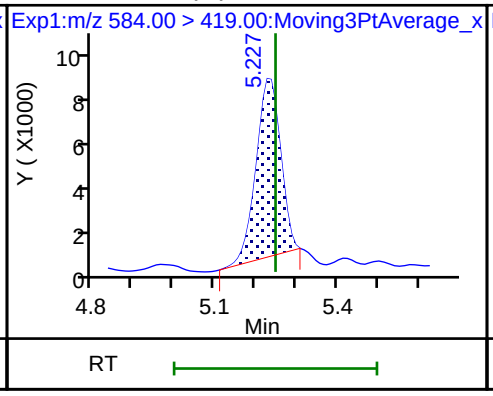
45 Perfluoroundecanoic acid (ND)



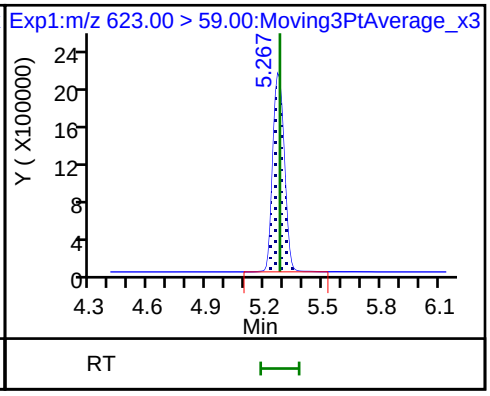
D 44 d5-NEtFOSAA



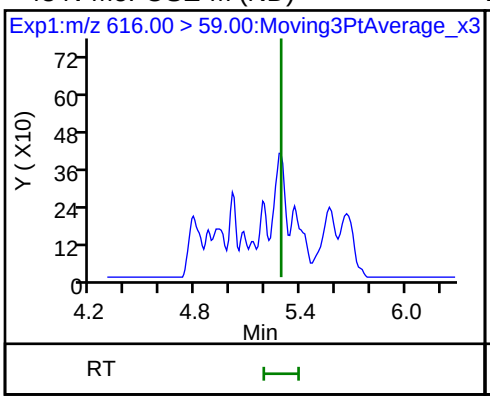
46 NEtFOSA (M)



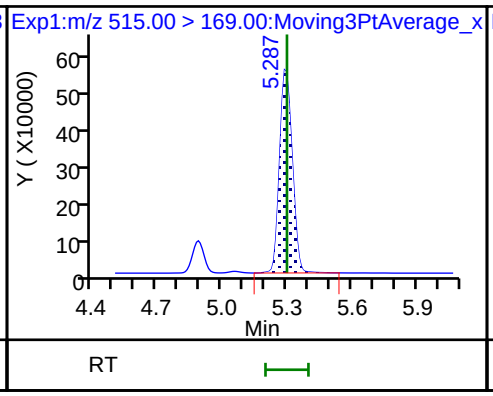
D 47 d7-N-MeFOSE-M



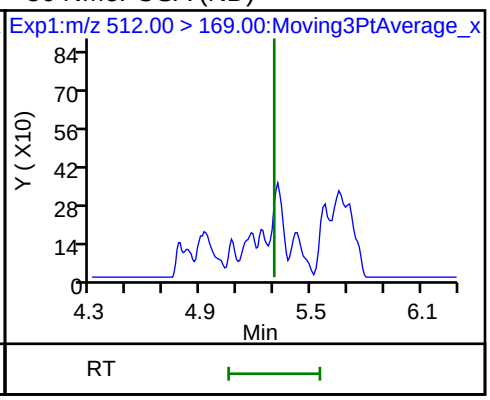
48 N-MeFOSE-M (ND)



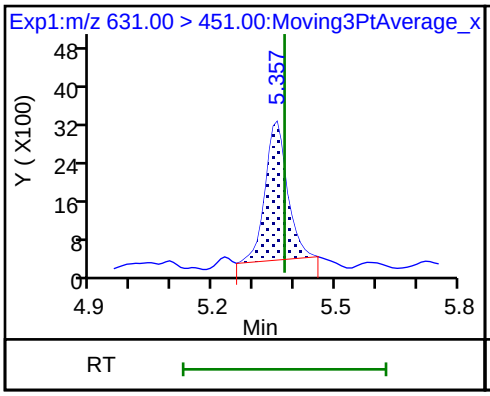
D 49 d-N-MeFOSA-M



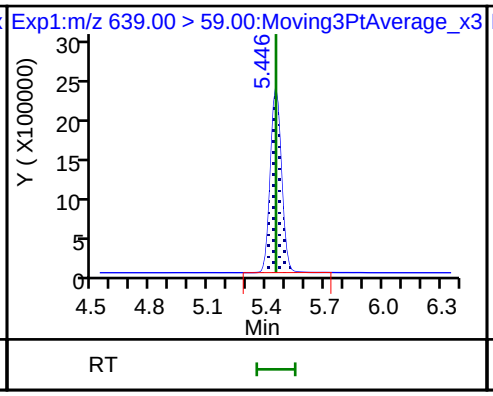
50 NMeFOSA (ND)



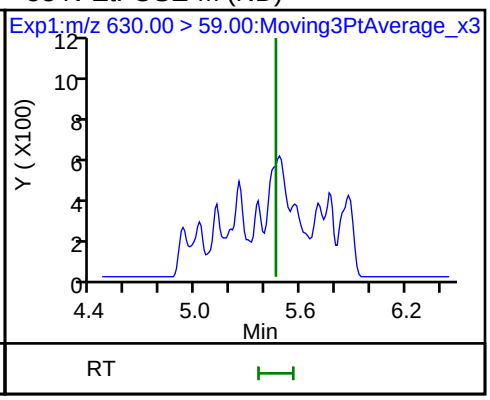
51 11ClFOS



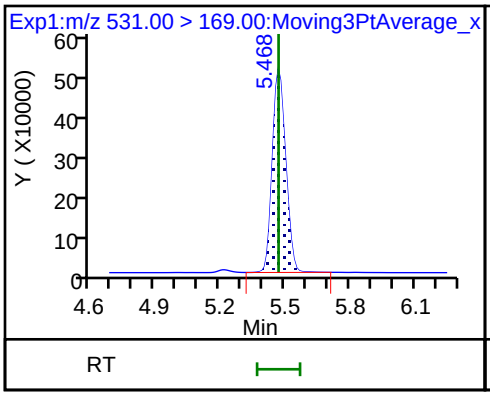
D 52 d9-N-EtFOSE-M



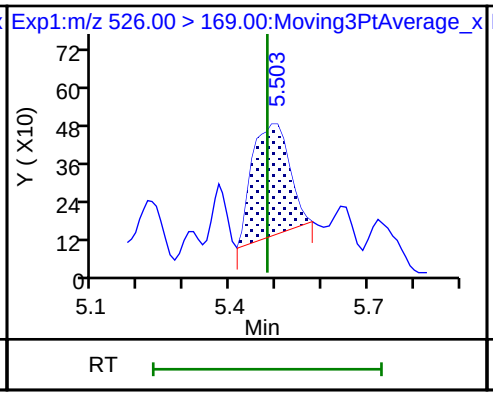
53 N-EtFOSE-M (ND)



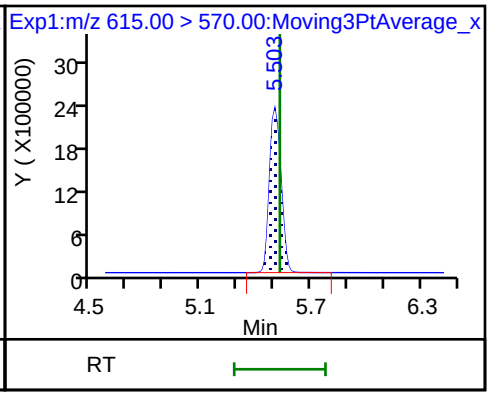
D 54 d-N-EtFOSA-M



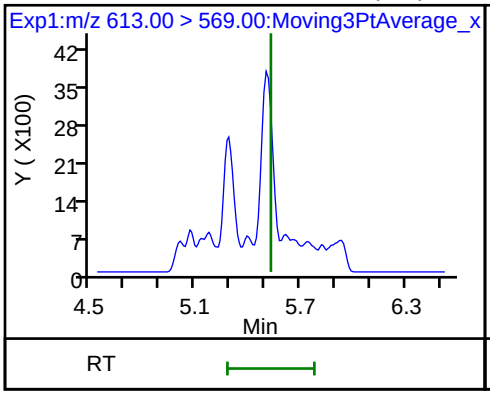
55 N-EtFOSA-M



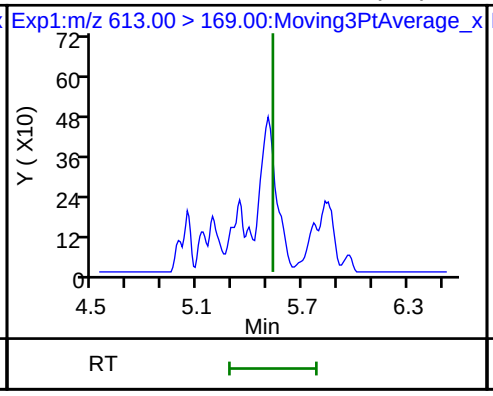
D 56 13C2 PFDoA



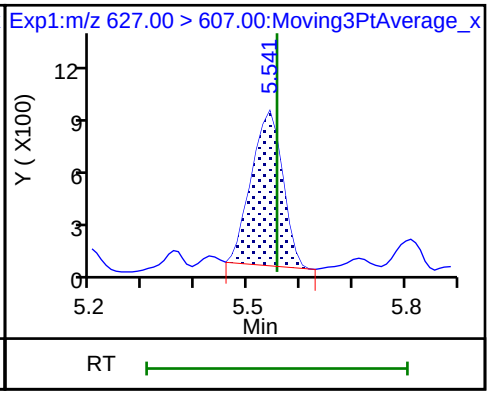
57 Perfluorododecanoic acid (ND)



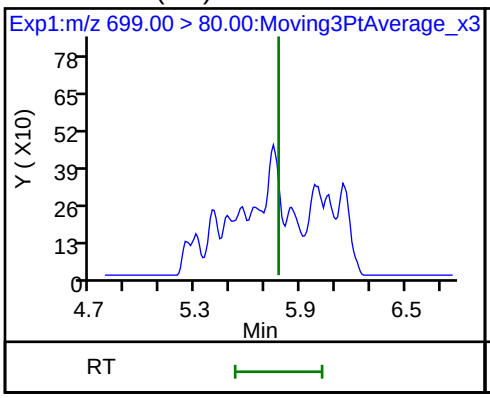
57 Perfluorododecanoic acid (ND)



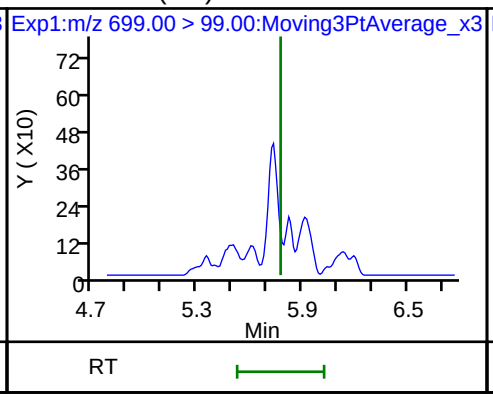
58 10:2 FTS



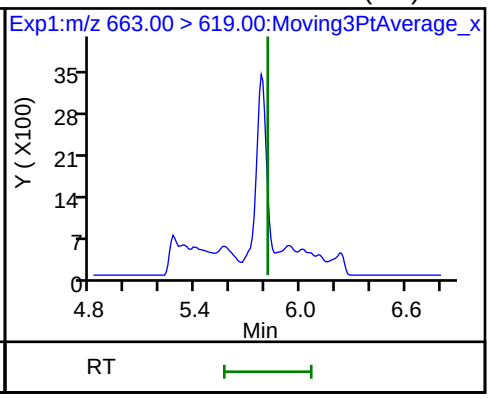
59 PFDoS (ND)



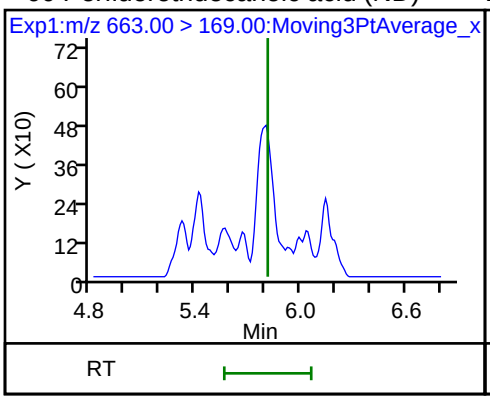
59 PFDoS (ND)



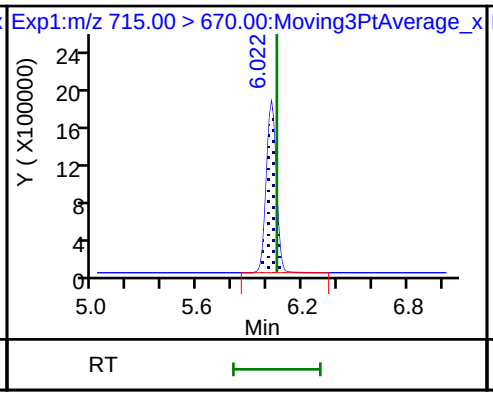
60 Perfluorotridecanoic acid (ND)



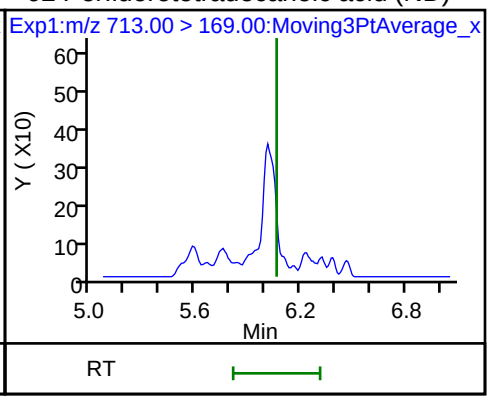
60 Perfluorotridecanoic acid (ND)



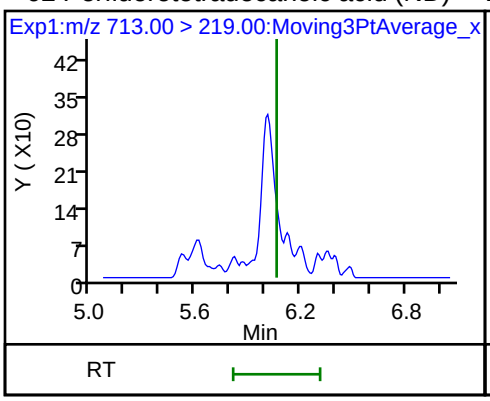
D 61 13C2 PFTeDA



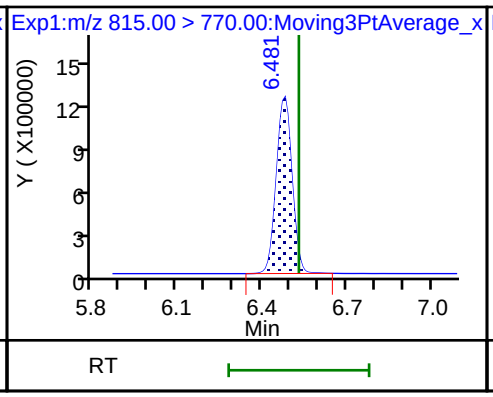
62 Perfluorotetradecanoic acid (ND)



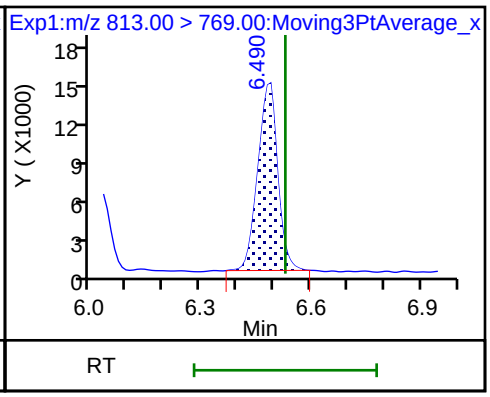
62 Perfluorotetradecanoic acid (ND)



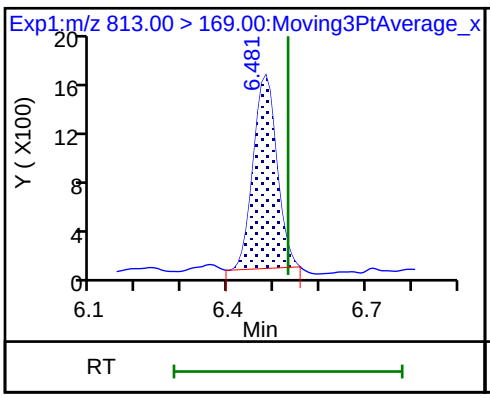
D 64 13C2 PFHxDA



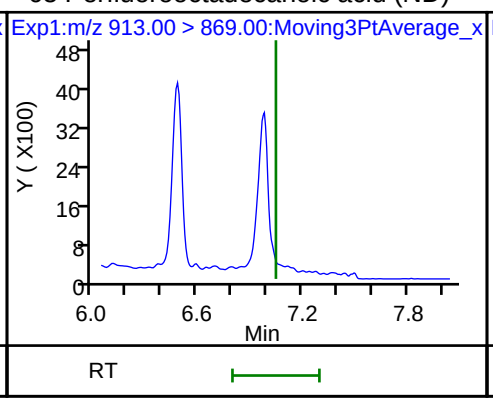
63 Perfluorohexadecanoic acid



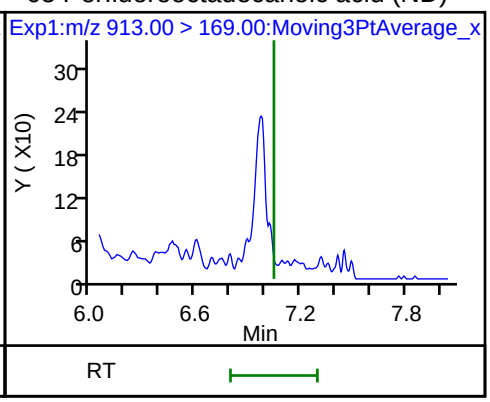
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

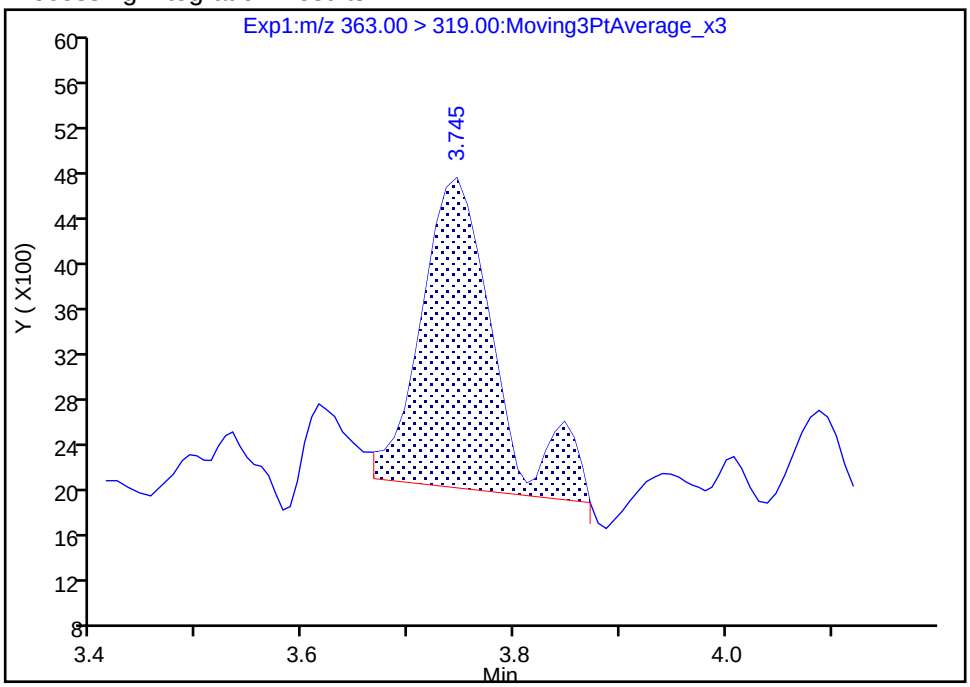
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

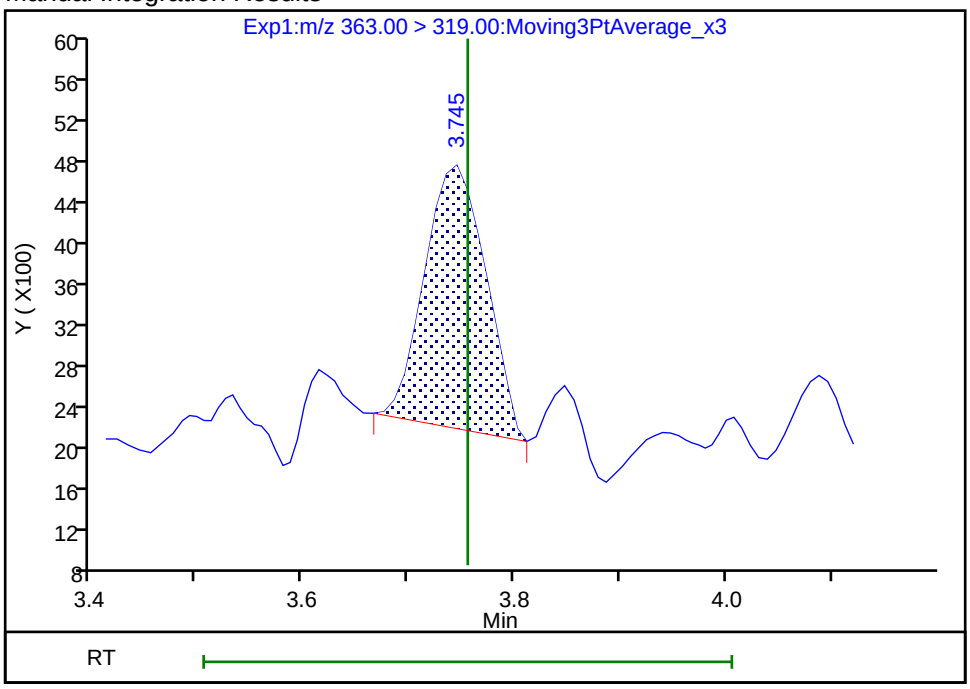
Processing Integration Results

RT: 3.75
Area: 12956
Amount: 0.002490
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 10098
Amount: 0.001941
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:06:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

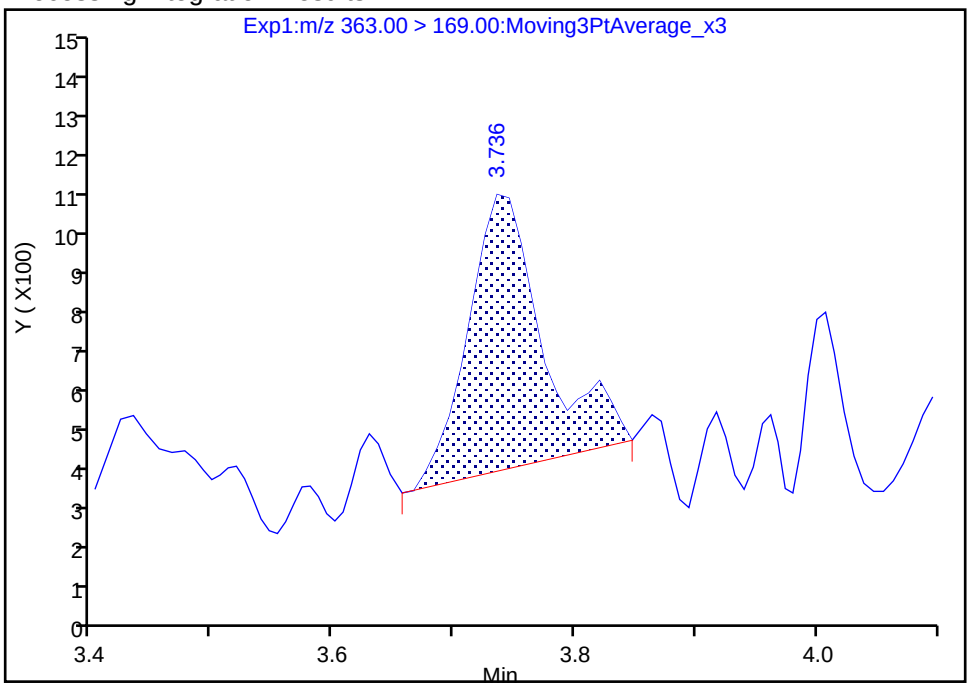
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

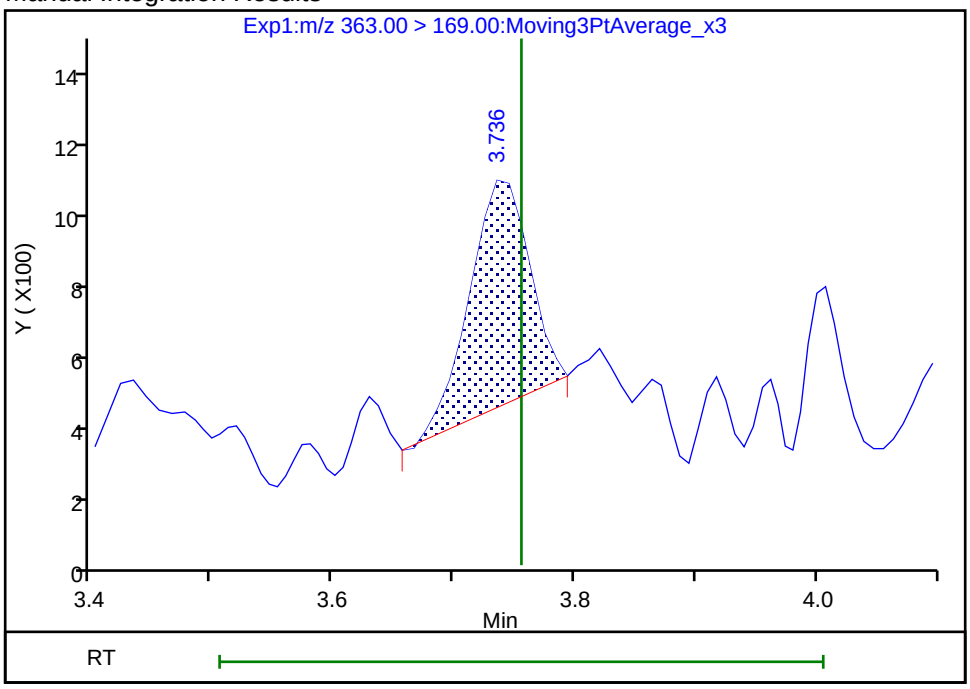
Processing Integration Results

RT: 3.74
Area: 2906
Amount: 0.002490
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 2109
Amount: 0.001941
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:06:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

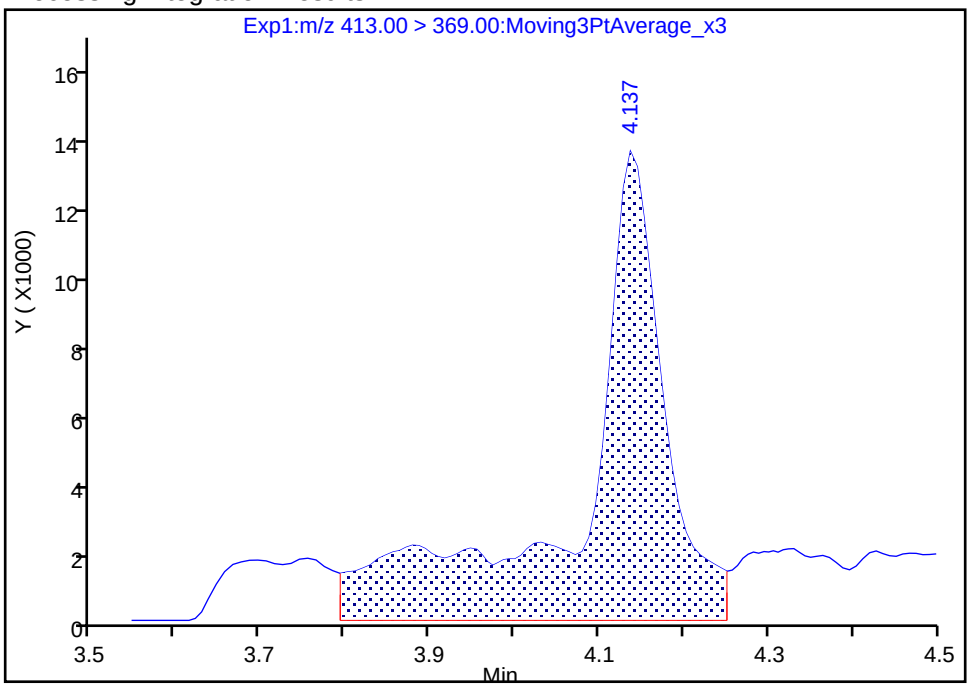
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

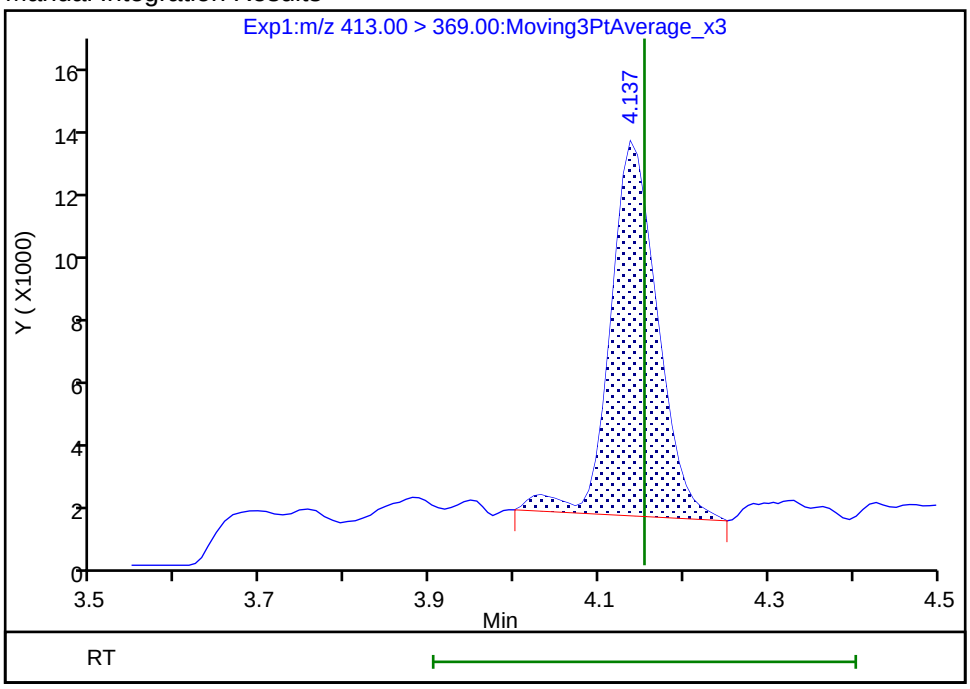
Processing Integration Results

RT: 4.14
Area: 90842
Amount: 0.019789
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 45281
Amount: 0.009864
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:06:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

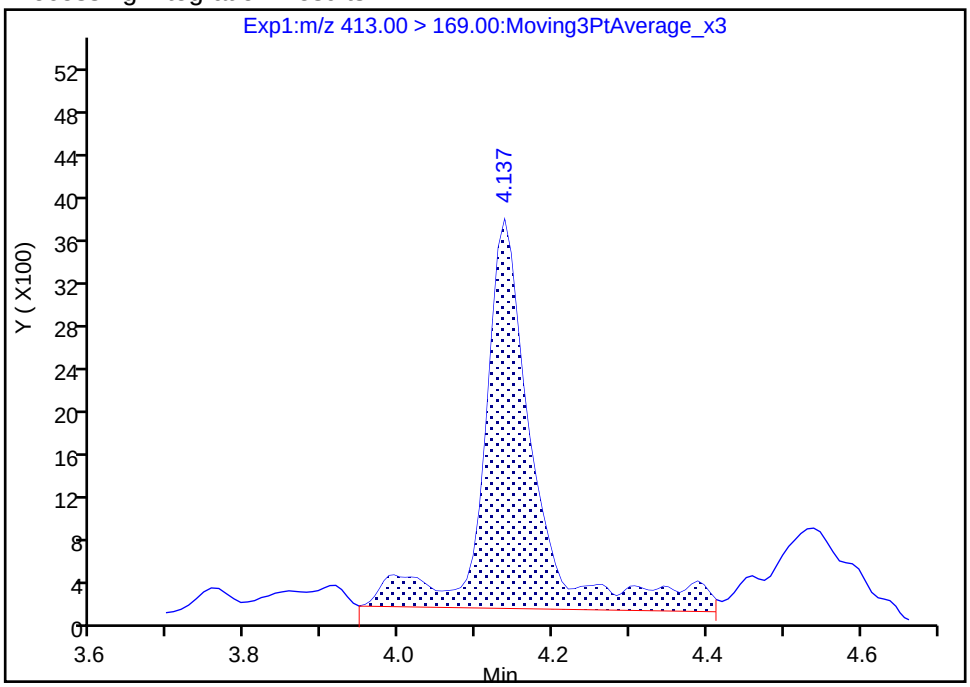
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

22 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

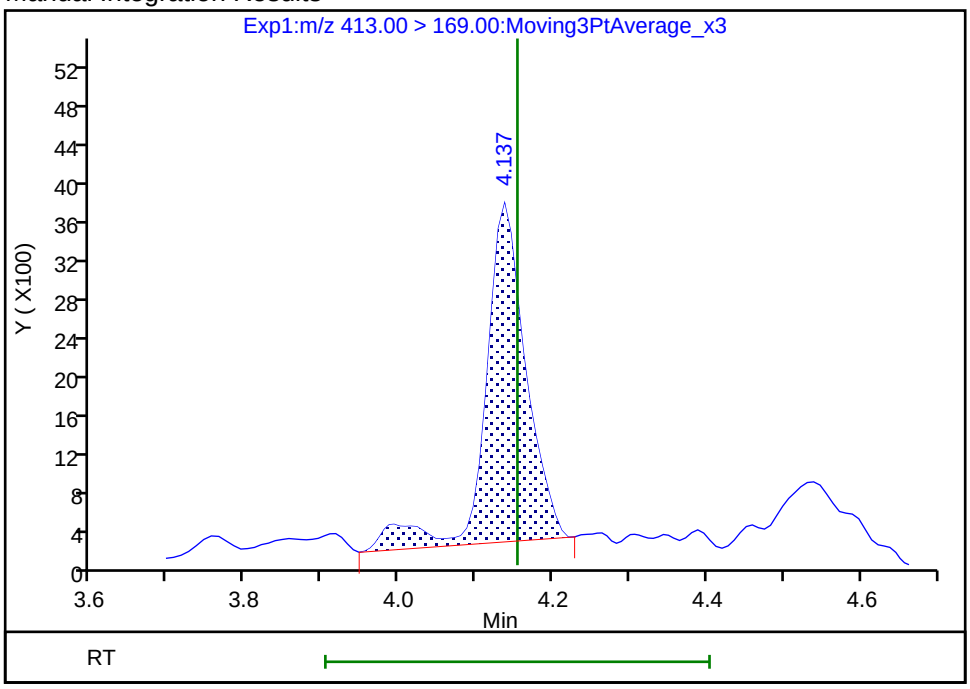
Processing Integration Results

RT: 4.14
Area: 16812
Amount: 0.019789
Amount Units: ng/ml



Manual Integration Results

RT: 4.14
Area: 12915
Amount: 0.009864
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:07:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

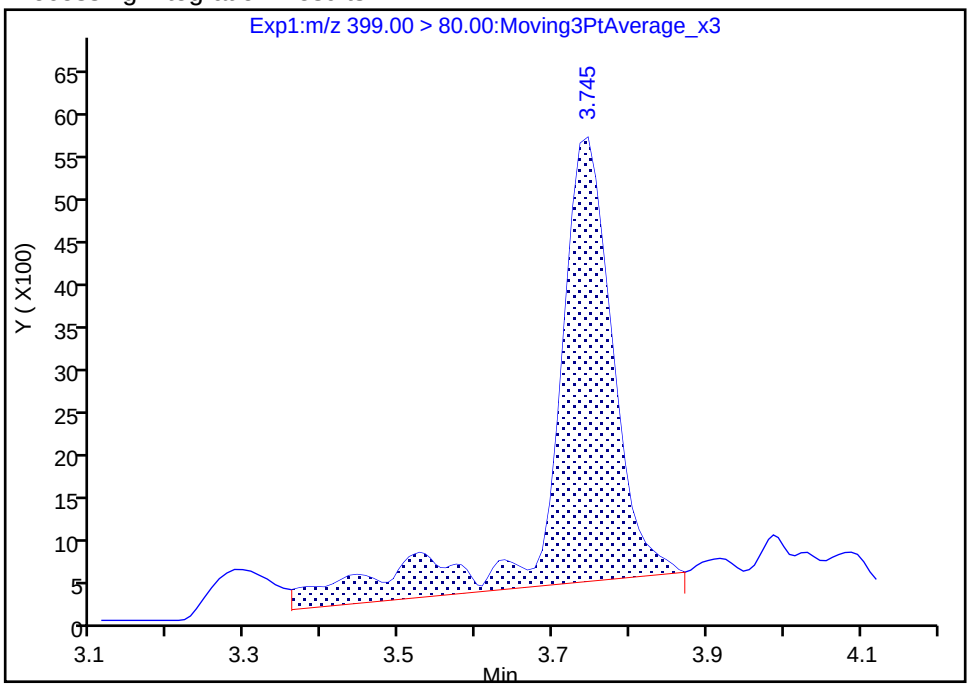
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

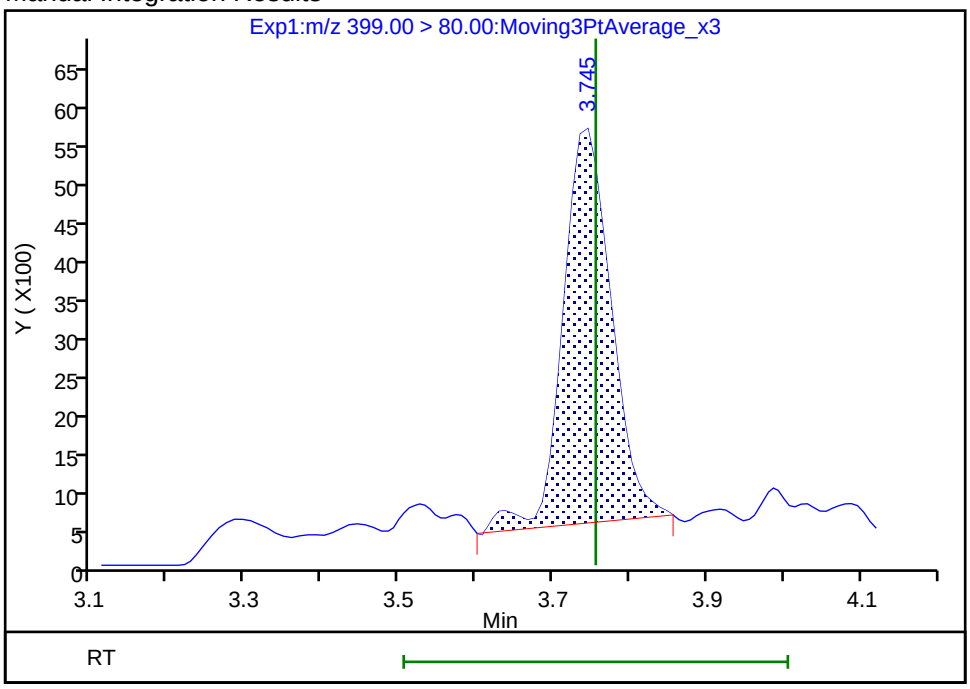
Processing Integration Results

RT: 3.75
Area: 28539
Amount: 0.010229
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 22544
Amount: 0.008080
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:06:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

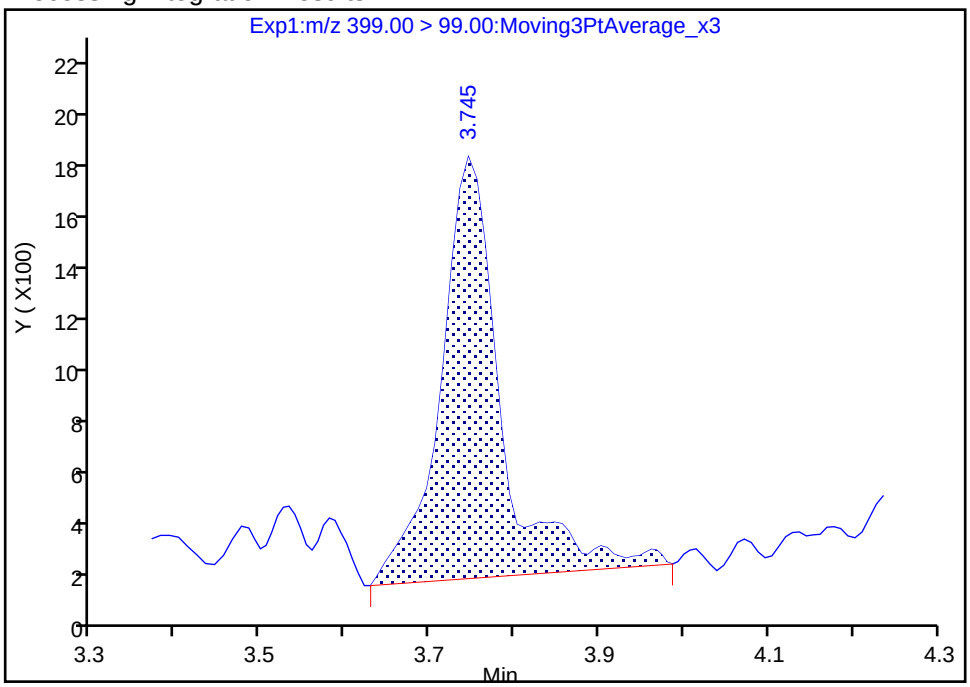
Data File:	\\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d				
Injection Date:	25-Aug-2020 17:47:07	Instrument ID:	A18		
Lims ID:	ICB				
Client ID:					
Operator ID:	TAISACA18-PC\A-18	ALS Bottle#:	13	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A18V2	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3mm x 50 mm (3.00mm)	Detector	EXP1		

15 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

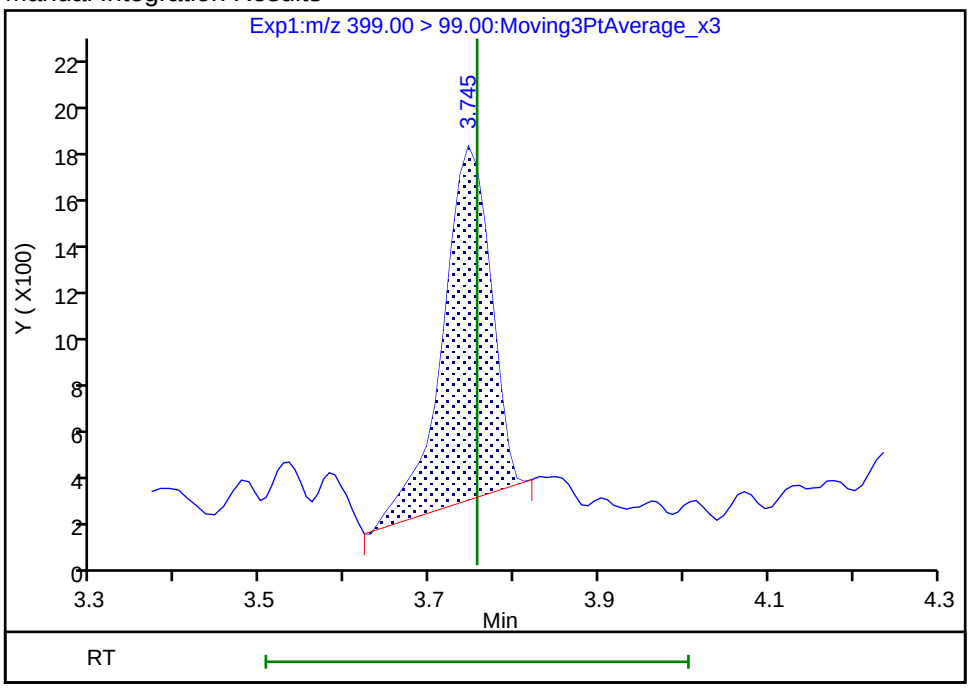
Processing Integration Results

RT: 3.75
Area: 7919
Amount: 0.010229
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 5895
Amount: 0.008080
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:06:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

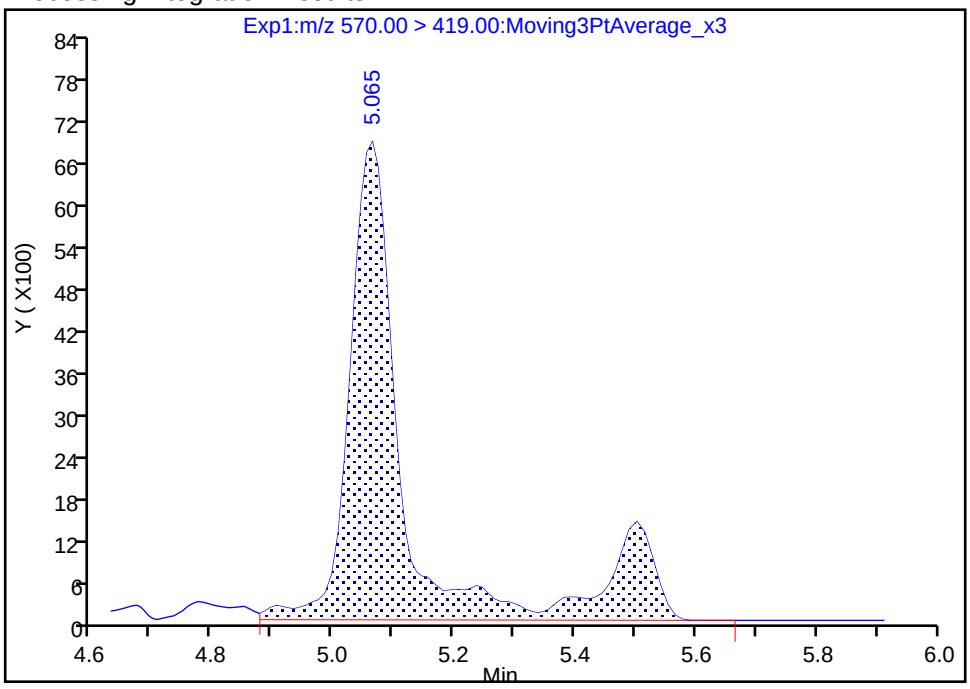
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

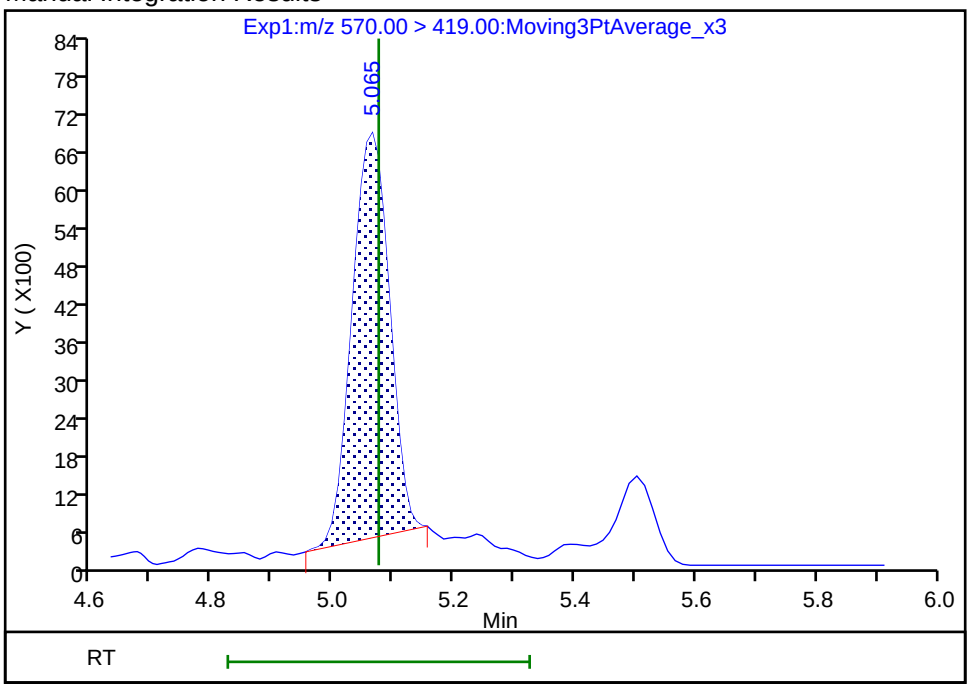
Processing Integration Results

RT: 5.06
Area: 44539
Amount: 0.025457
Amount Units: ng/ml



Manual Integration Results

RT: 5.06
Area: 27396
Amount: 0.015658
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:07:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

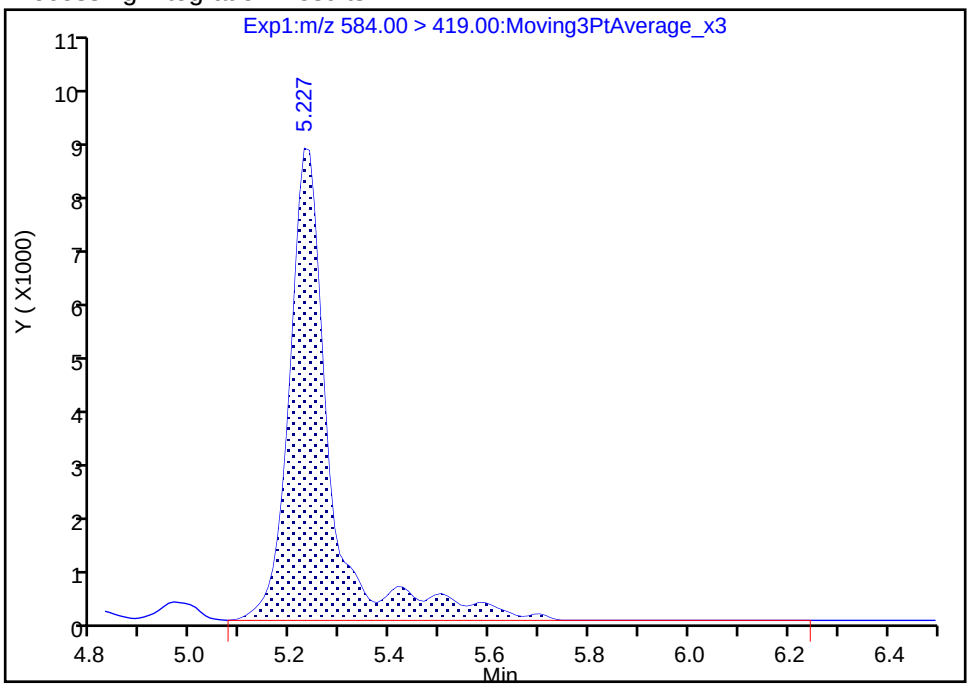
Data File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_018.d
Injection Date: 25-Aug-2020 17:47:07 Instrument ID: A18
Lims ID: ICB
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 13 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

46 NEtFOSA, CAS: 2991-50-6

Signal: 1

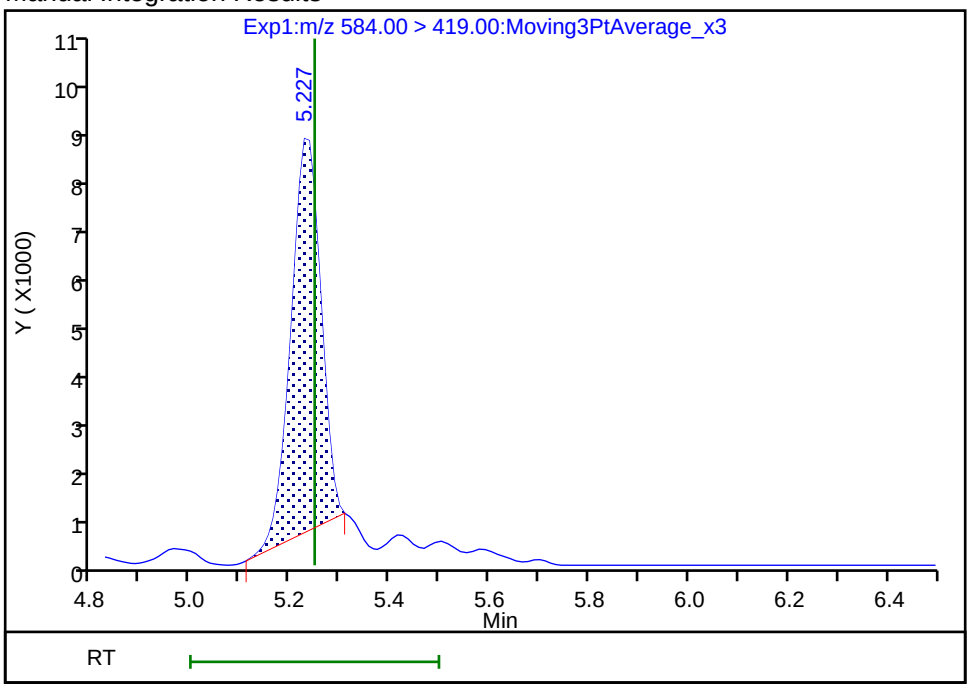
Processing Integration Results

RT: 5.23
Area: 48197
Amount: 0.027466
Amount Units: ng/ml



Manual Integration Results

RT: 5.23
Area: 32585
Amount: 0.018569
Amount Units: ng/ml



Reviewer: fariasa, 26-Aug-2020 06:07:36
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 320-410935/14

Matrix: Water Lab File ID: 2020.09.10_A9 _PFC_ICAL_AA_023

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/10/2020 12:38

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410935 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0073	U	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00777	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 320-410935/14

Matrix: Water Lab File ID: 2020.09.10_A9 _PFC_ICAL_AA_023

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/10/2020 12:38

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410935 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	101		25-150
STL01893	13C5 PFPeA	97		25-150
STL00993	13C2 PFHxA	100		25-150
STL01892	13C4 PFHpA	103		25-150
STL00990	13C4 PFOA	101		25-150
STL00995	13C5 PFNA	105		25-150
STL00996	13C2 PFDA	101		25-150
STL00997	13C2 PFUnA	102		25-150
STL00998	13C2 PFDoA	98		25-150
STL02116	13C2 PFTeDA	101		25-150
STL02337	13C3 PFBS	104		25-150
STL00994	18O2 PFHxS	106		25-150
STL00991	13C4 PFOS	106		25-150
STL01056	13C8 FOSA	101		25-150
STL02118	d3-NMeFOSAA	101		25-150
STL02117	d5-NEtFOSAA	108		25-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	108		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 10-Sep-2020 12:38:41 ALS Bottle#: 17 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB_53
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTRLCMS02 Instrument ID: A9

Method: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 16:31:40 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1016

First Level Reviewer: zibaa Date: 10-Sep-2020 13:24:49
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.900	1.893	0.007	0.565	8529232	2.52		101	3065	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.922	1.893	0.029	1.012	3143	0.001055			0.2	
D 4 13C5 PFPeA										
267.90 > 223.00	2.206	2.198	0.008	0.656	6907542	2.42		96.7	3300	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.206	2.198	0.008	1.000	9258	0.003293			0.8	
D 6 13C3 PFBS										
301.90 > 80.00	2.232	2.233	-0.001	0.664	13600384	2.41		104	3217	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.525	2.515	0.010	0.751	1281969	2.29		98.0	702	
D 10 13C2 PFHxA										
315.00 > 270.00	2.557	2.558	-0.001	0.760	6617197	2.49		99.6	3265	
11 Perfluorohexanoic acid										R
313.00 > 269.00	2.557	2.558	-0.001	1.000	15018	0.006801	Target=9.68		1.4	R
313.00 > 119.00	2.535	2.558	-0.023	0.992	621		24.18(4.84-14.52)		0.8	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.686	2.674	0.012	0.799	4649771	2.55		102	4494	
D 15 13C4 PFHpA										
367.00 > 322.00	2.953	2.952	0.001	0.878	6679040	2.58		103	3599	
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.959	2.952	0.007	1.002	12586	0.004248	Target=3.74		2.0	
363.00 > 169.00	2.953	2.952	0.001	1.000	2963		4.25(1.87-5.61)		3.9	
D 17 18O2 PFHxS										
403.00 > 84.00	2.959	2.957	0.002	0.880	6775652	2.51		106	2630	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.959	2.957	0.002	1.000	26241	0.007765	Target=3.29		8.2	M
399.00 > 99.00	2.953	2.957	-0.004	0.998	7053		3.72(1.65-4.94)		8.3	M
19 DONA										R
377.00 > 251.00	3.011	3.002	0.009	0.805	6124	0.001133	Target=1.80		5.3	R
377.00 > 85.00	2.995	3.002	-0.007	0.801	571		10.73(0.90-2.70)		1.2	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.340	3.331	0.009	0.993	1196399	2.48		104	1462	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.333	3.331	0.002	0.998	5379	0.006926			8.3	
$ 21 13C8 PFOA										
421.00 > 376.00	3.347	3.346	0.001	0.995	5347708	2.63		108	8757	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.347	3.353	-0.006	0.895	3175	0.001152	Target=3.65		1.6	
449.00 > 99.00	3.381	3.353	0.028	0.904	674		4.71(1.83-5.48)		2.7	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.371	3.353	0.018	1.003	24699	0.009365	Target=2.37		5.2	
413.00 > 169.00	3.362	3.353	0.009	1.000	14065		1.76(1.19-3.56)		22.2	
* 25 13C2 PFOA										
415.00 > 370.00	3.362	3.353	0.009		6274513	2.50			3780	
D 26 13C4 PFOA										
417.00 > 372.00	3.362	3.353	0.009	1.000	6113363	2.52		101	5195	
$ 27 13C8 PFOS										
507.00 > 99.00	3.731	3.729	0.002	1.110	1527471	2.39		100	2169	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.740	3.737	0.003	1.000	17385	0.005610	Target=4.12		2.3	M
499.00 > 99.00	3.740	3.737	0.003	1.000	5768		3.01(2.06-6.17)		10.5	
D 31 13C4 PFOS										
503.00 > 80.00	3.740	3.737	0.003	1.112	7123929	2.53		106	1597	
D 29 13C5 PFNA										
468.00 > 423.00	3.749	3.746	0.003	1.115	5526928	2.63		105	3377	
30 Perfluorononanoic acid										R
463.00 > 419.00	3.767	3.746	0.021	1.005	6324	0.002873	Target=4.21		4.0	R
463.00 > 169.00	3.758	3.746	0.012	1.002	746		8.48(2.11-6.32)		2.0	
D 36 13C8 FOSA										
506.00 > 78.00	4.080	4.079	0.002	1.213	3347938	2.53		101	2905	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.080	4.079	0.002	1.000	15326	0.004114			14.3	
D 33 13C2 PFDA										
515.00 > 470.00	4.116	4.114	0.002	1.224	6769452	2.54		101	4009	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.116	4.114	0.002	1.224	1528000	2.58		108	1787	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.116	4.114	0.002	1.000	2778	0.003379			21.2	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.277	4.276	0.001	1.272	3342297	2.52		101	2673	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
40 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.286	4.276	0.010	1.002	35709	0.0352			8.2	M
D 46 13C2 PFUnA										
565.00 > 520.00	4.432	4.431	0.001	1.318	5263490	2.56		102	8018	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.432	4.431	0.001	1.000	3115	0.002125	Target=6.74		4.5	
563.00 > 169.00	4.407	4.431	-0.024	0.994	360		8.65(3.37-10.11)		2.4	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.441	4.440	0.001	1.321	2394063	2.69		108	1584	
44 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.449	4.448	0.001	1.002	18629	0.0240			40.6	M
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.544	4.542	0.002	1.351	5597493	13.1		105	5979	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.561	4.560	0.001	1.357	1557787	2.61		104	233	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.719	4.709	0.010	1.404	5930615	13.2		106	6473	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.746	4.728	0.018	1.004	7330	0.004024	Target=6.67		9.1	
613.00 > 169.00	4.728	4.728	0.0	1.000	2148		3.41(3.34-10.01)		16.7	
D 56 13C2 PFDoA										
615.00 > 570.00	4.728	4.728	0.0	1.406	4951198	2.45		98.0	5517	
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.737	4.737	0.0	1.409	1612474	2.60		104	1019	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.233	5.232	0.001	1.556	3541046	2.51		101	5232	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.678	5.668	0.010	1.689	2704231	2.59		104	5111	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.678	5.668	0.010	1.000	26179	0.004569	Target=4.63		66.3	
813.00 > 169.00	5.678	5.668	0.010	1.000	5270		4.97(2.32-6.95)		46.2	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00053 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 16:31:43 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d

Injection Date: 10-Sep-2020 12:38:41 Instrument ID: A9

Lims ID: ICB

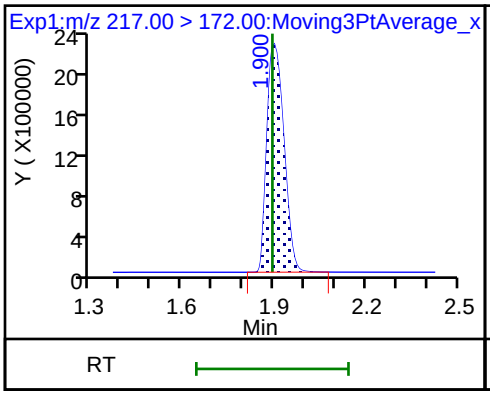
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 17 Worklist Smp#: 14

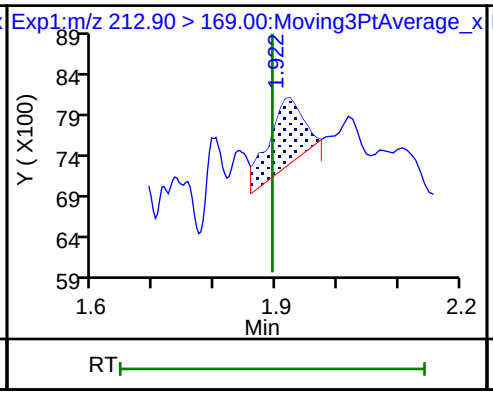
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

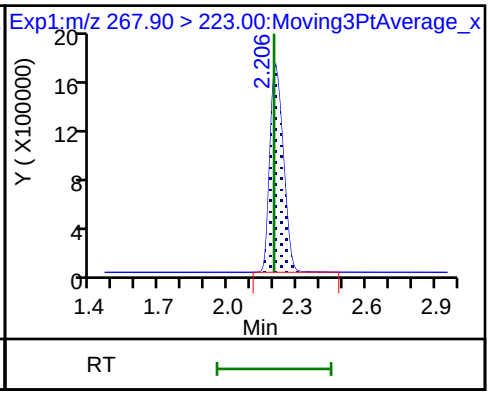
D 1 13C4 PFBA



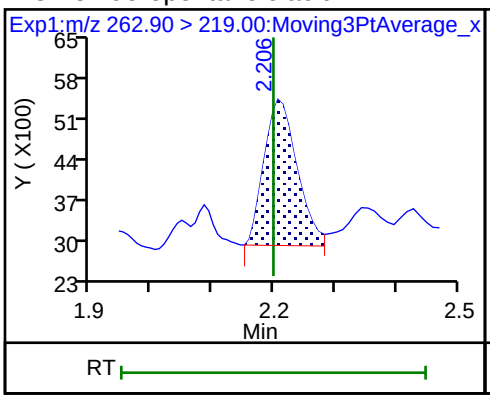
2 Perfluorobutanoic acid



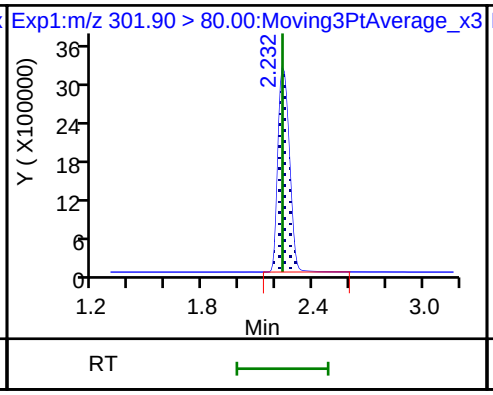
D 4 13C5 PFPeA



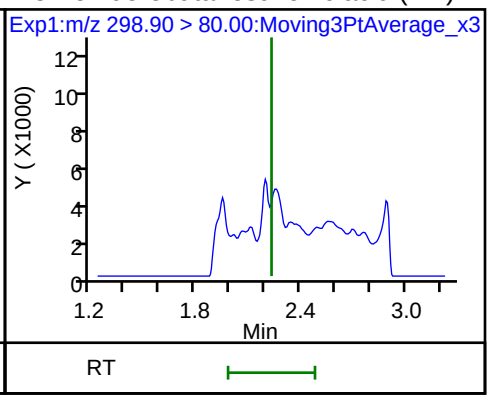
3 Perfluoropentanoic acid



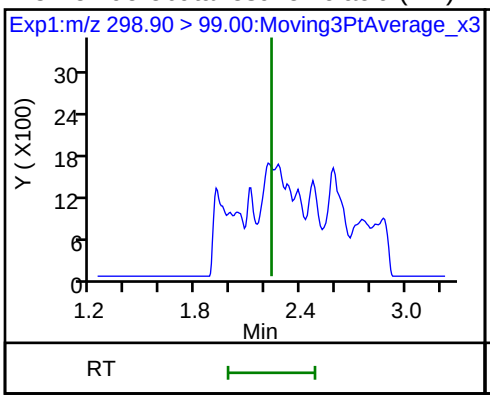
D 6 13C3 PFBS



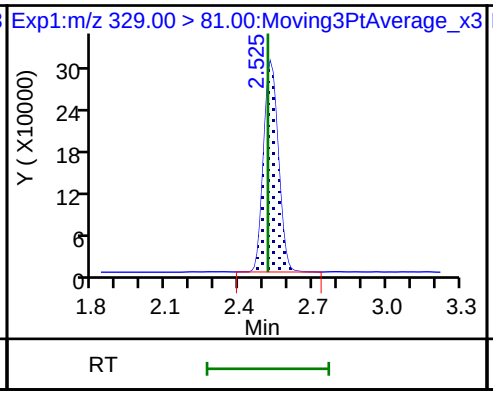
5 Perfluorobutanesulfonic acid (ND)



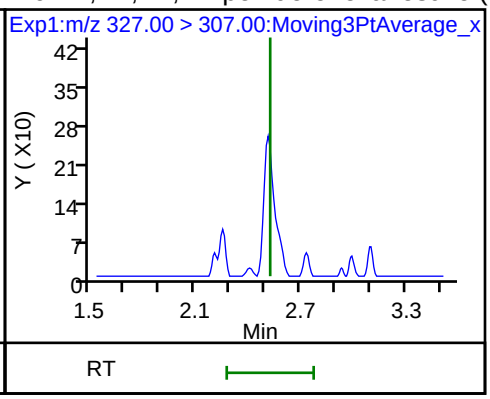
5 Perfluorobutanesulfonic acid (ND)



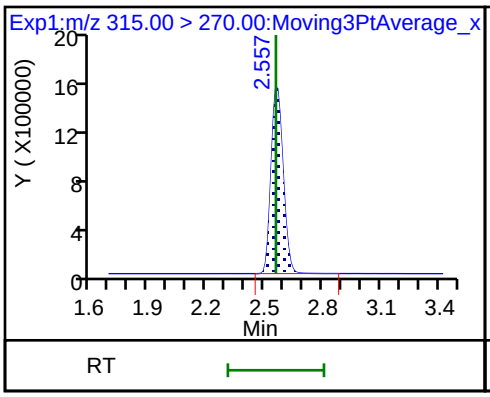
D 8 M2-4:2 FTS



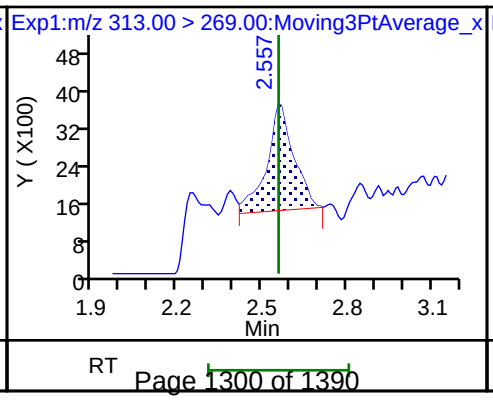
9 1H,1H,2H,2H-perfluorohexanesulfo (ND)



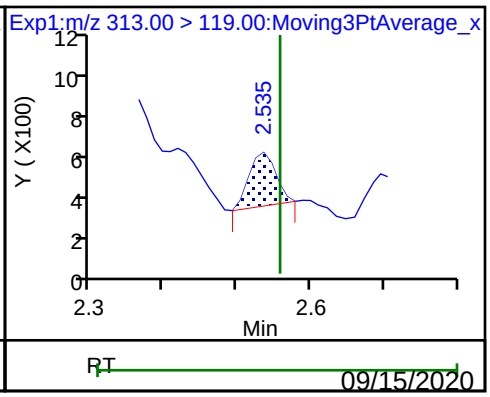
D 10 13C2 PFHxA



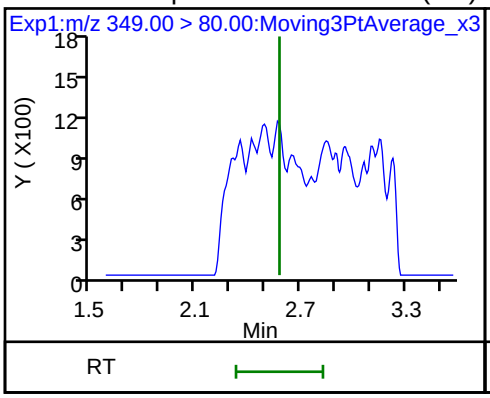
11 Perfluorohexanoic acid



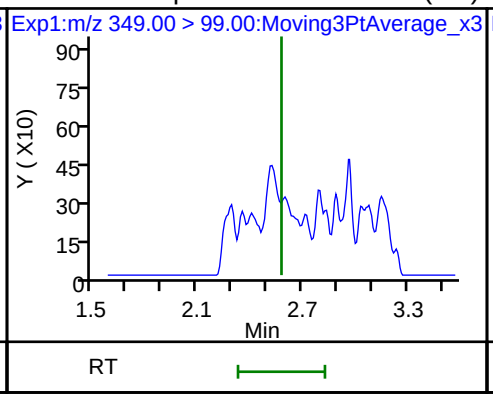
11 Perfluorohexanoic acid



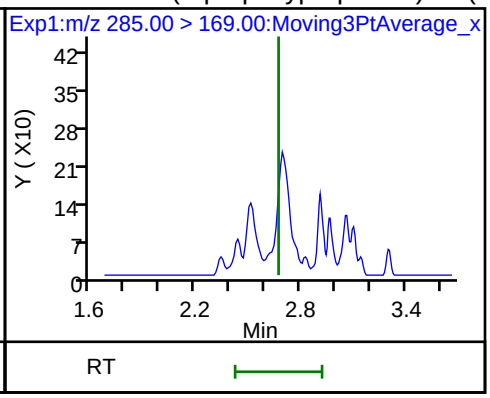
12 Perfluoropentanesulfonic acid (ND)



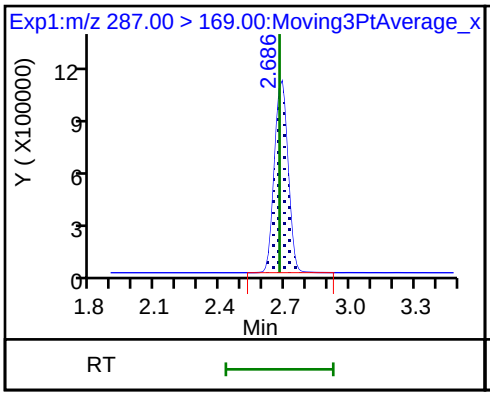
12 Perfluoropentanesulfonic acid (ND)



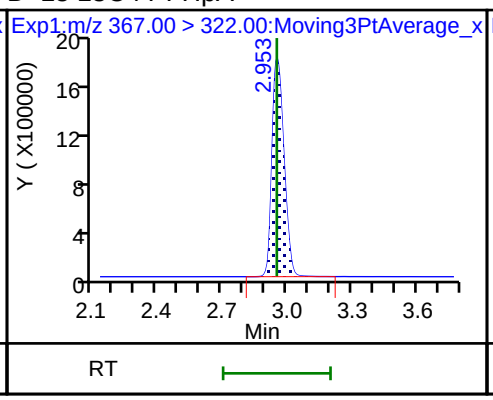
14 Perfluoro(2-propoxypropanoic) ac (ND)



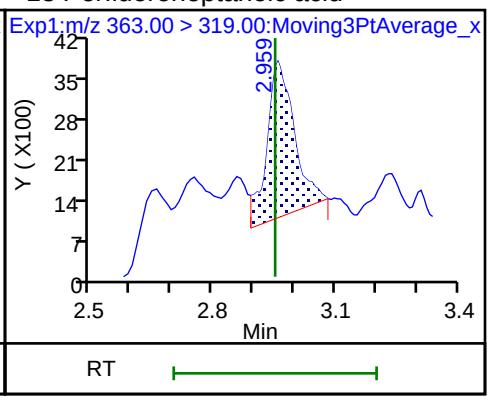
D 13 13C3 HFPO-DA



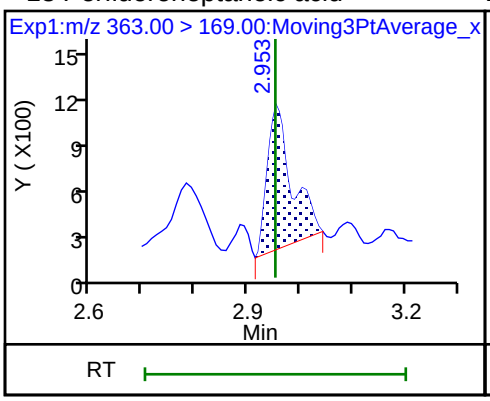
D 15 13C4 PFHpA



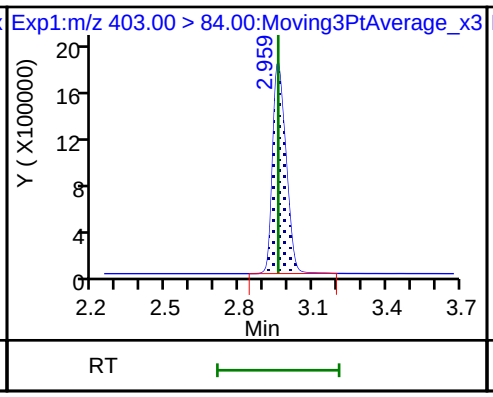
18 Perfluoroheptanoic acid



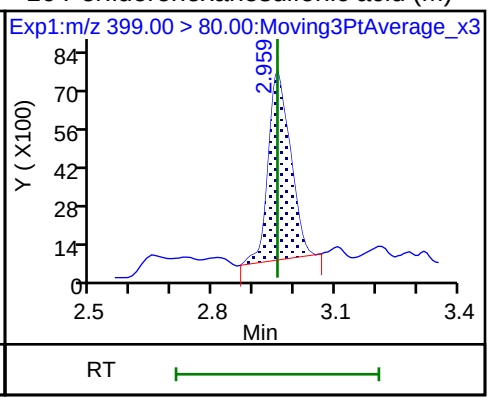
18 Perfluoroheptanoic acid



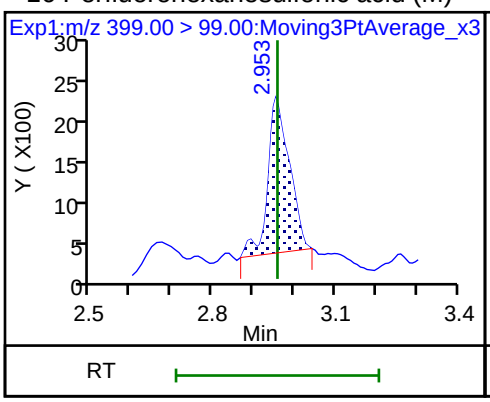
D 17 18O2 PFHxS



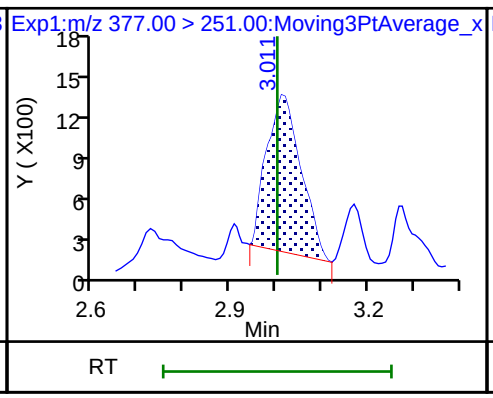
16 Perfluorohexanesulfonic acid (M)



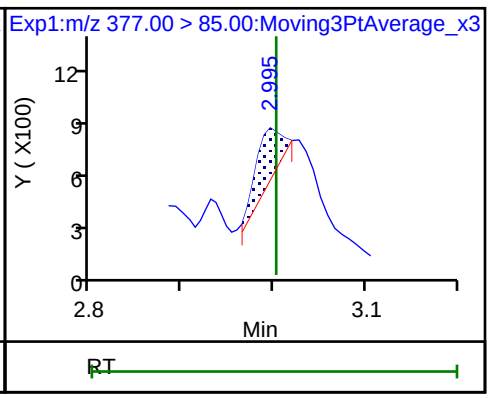
16 Perfluorohexanesulfonic acid (M)



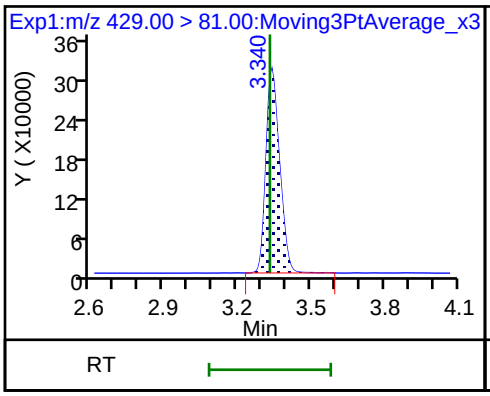
19 DONA



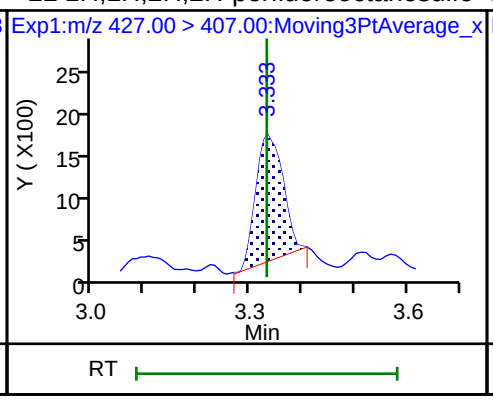
19 DONA



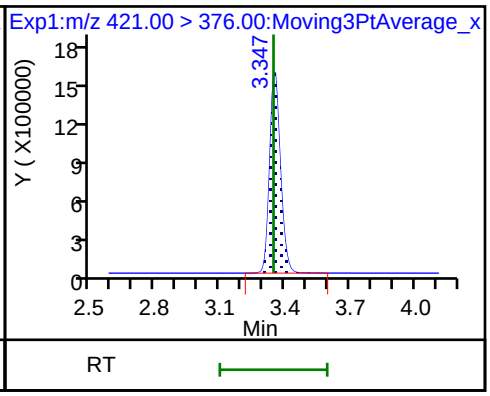
D 20 M2-6:2 FTS



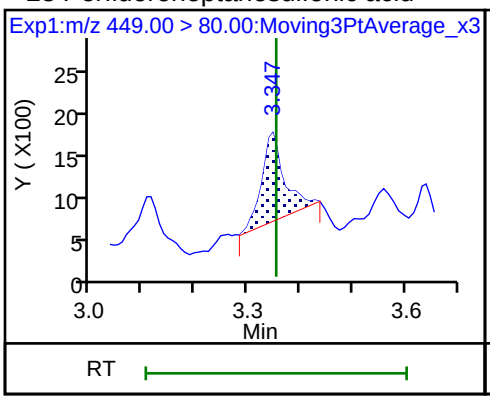
22 1H,1H,2H,2H-perfluorooctanesulfo



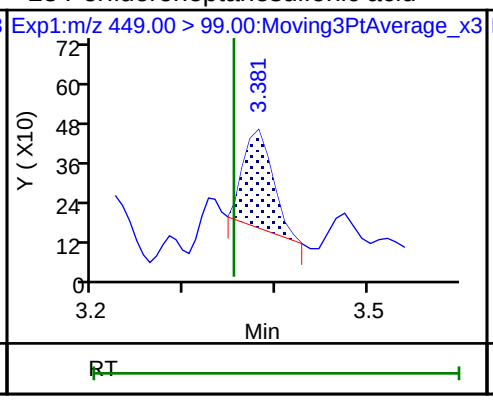
$ 21 13C8 PFOA



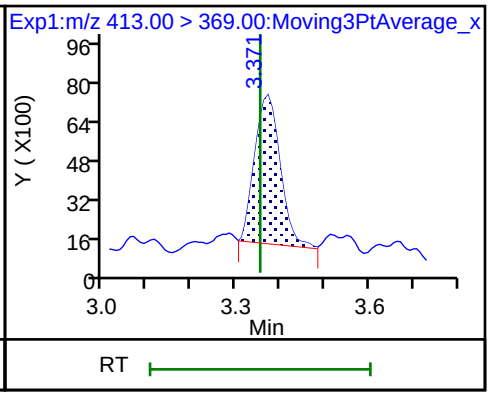
23 Perfluoroheptanesulfonic acid



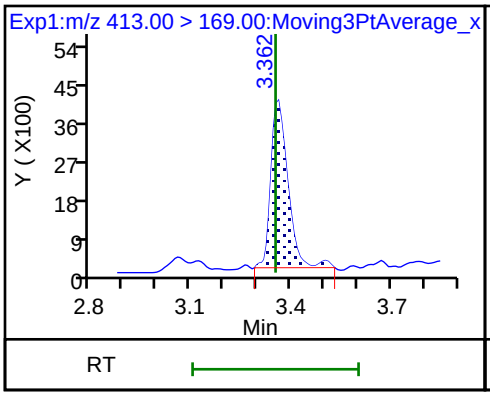
23 Perfluoroheptanesulfonic acid



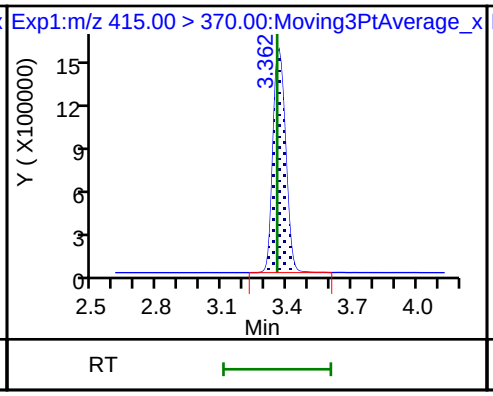
24 Perfluorooctanoic acid



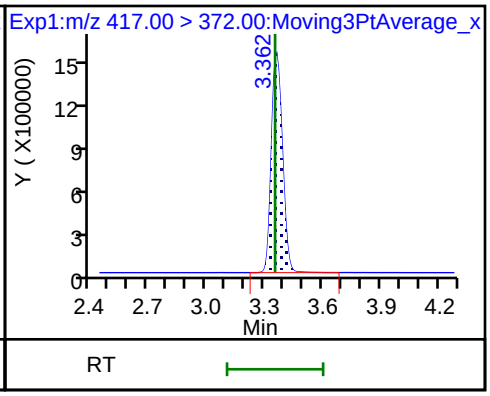
24 Perfluorooctanoic acid



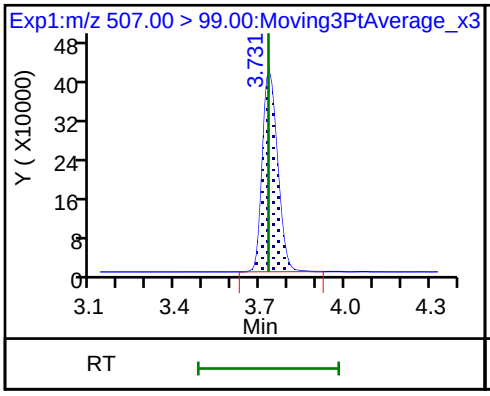
* 25 13C2 PFOA



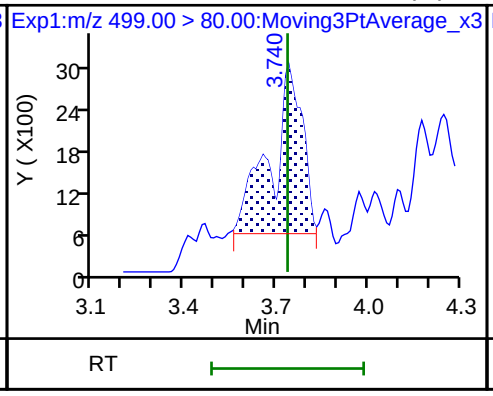
D 26 13C4 PFOA



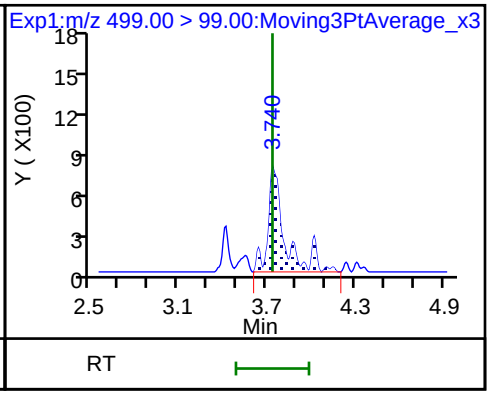
$ 27 13C8 PFOS



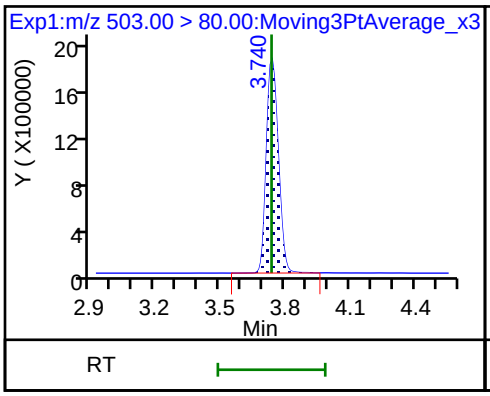
28 Perfluorooctanesulfonic acid (M)



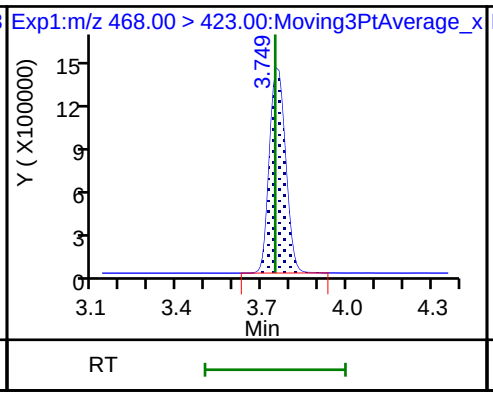
28 Perfluorooctanesulfonic acid



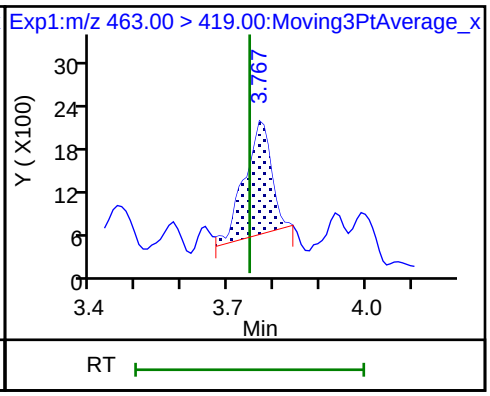
D 31 13C4 PFOS



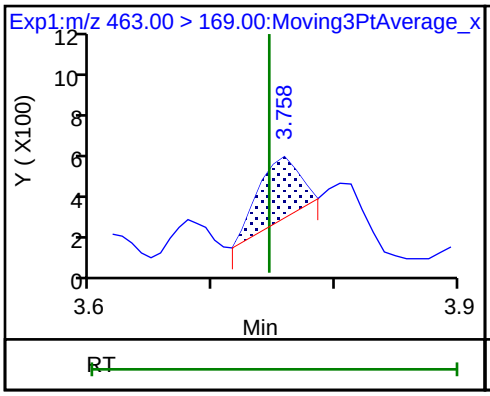
D 29 13C5 PFNA



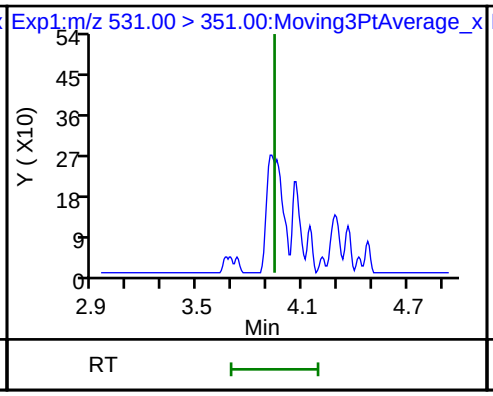
30 Perfluorononanoic acid



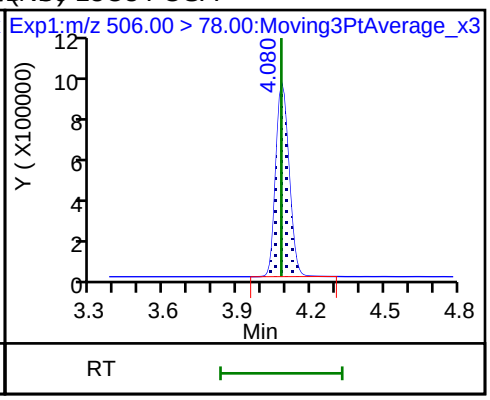
30 Perfluorononanoic acid



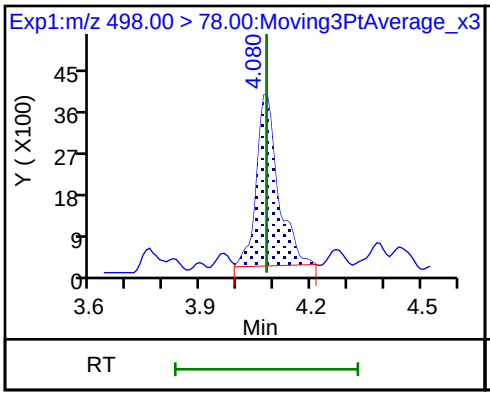
32 9-Chlorohexadecafluoro-3-oxanona(NB)



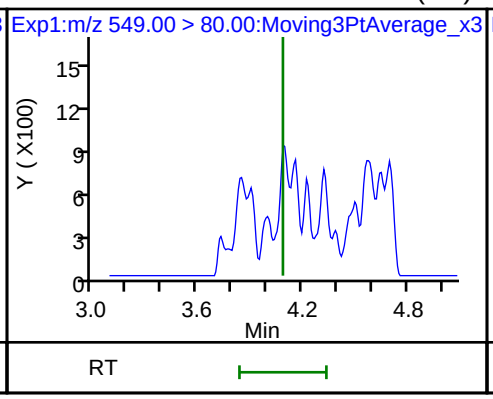
D 36 13C8 FOSA



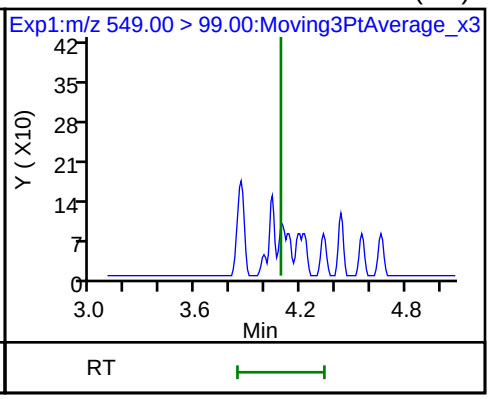
34 Perfluorooctanesulfonamide



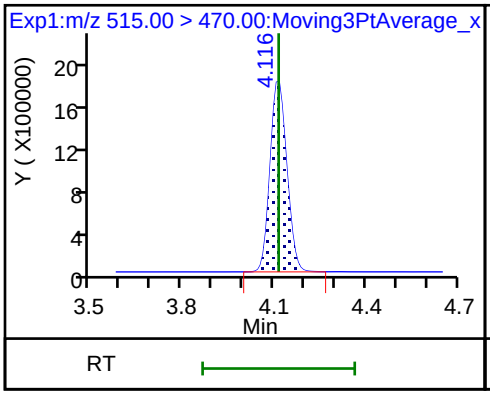
35 Perfluorononanesulfonic acid (ND)



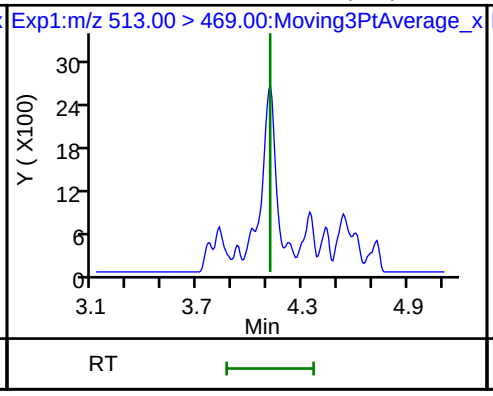
35 Perfluorononanesulfonic acid (ND)



D 33 13C2 PFDA



38 Perfluorodecanoic acid (ND)



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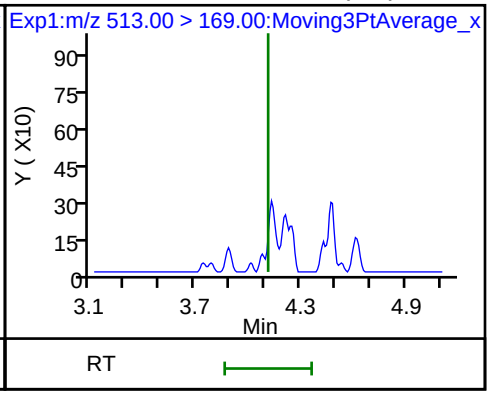
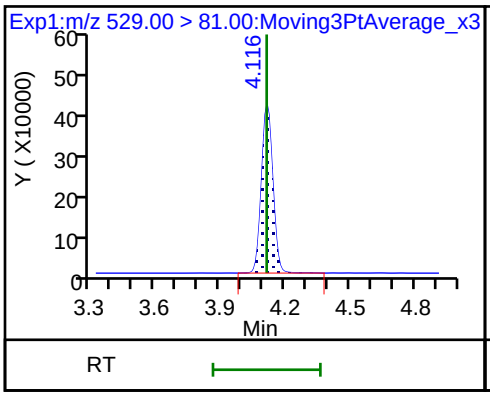
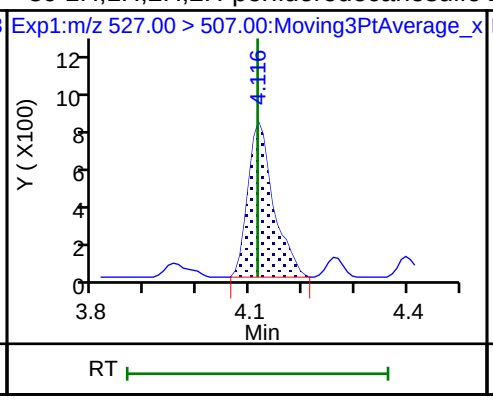


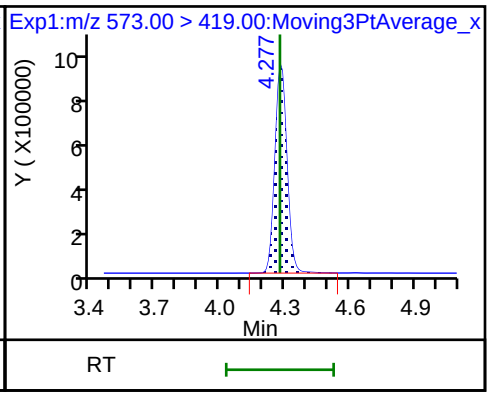
D 37 M2-8:2 FTS



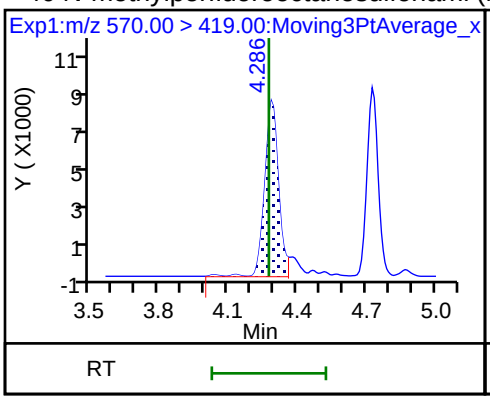
39 1H,1H,2H,2H-perfluorodecanesulfo



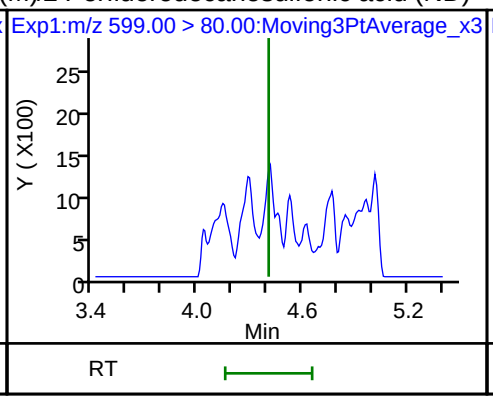
D 41 d3-NMeFOSAA



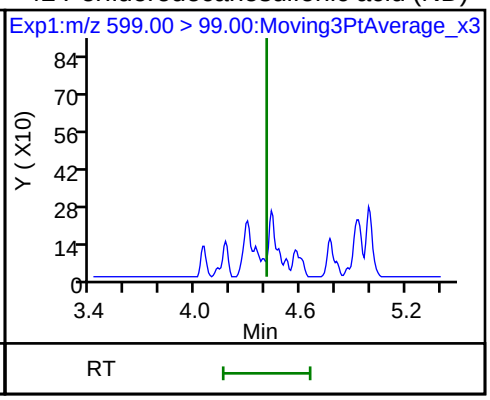
40 N-methylperfluorooctanesulfonami (M)



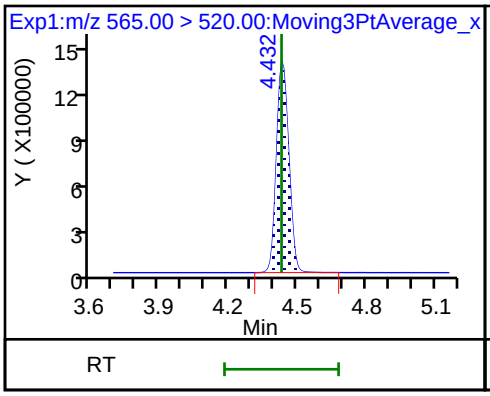
42 Perfluorodecanesulfonic acid (ND)



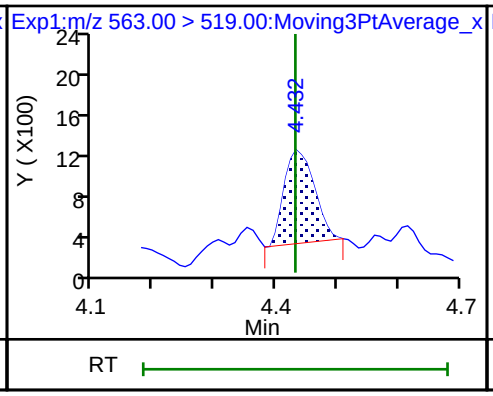
42 Perfluorodecanesulfonic acid (ND)



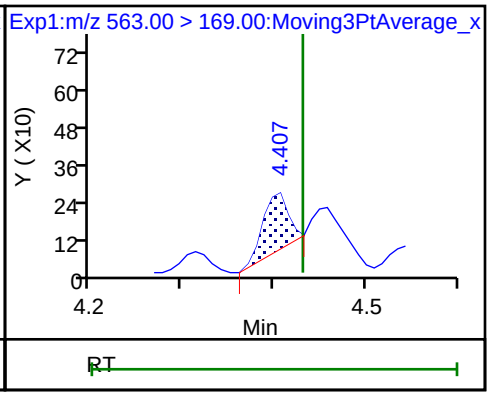
D 46 13C2 PFUnA



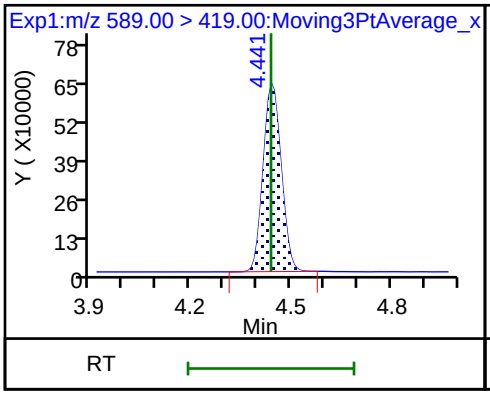
43 Perfluoroundecanoic acid



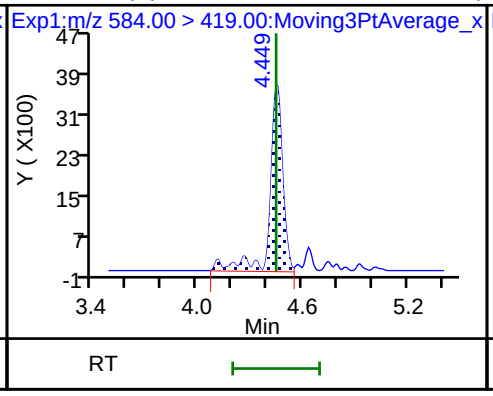
43 Perfluoroundecanoic acid



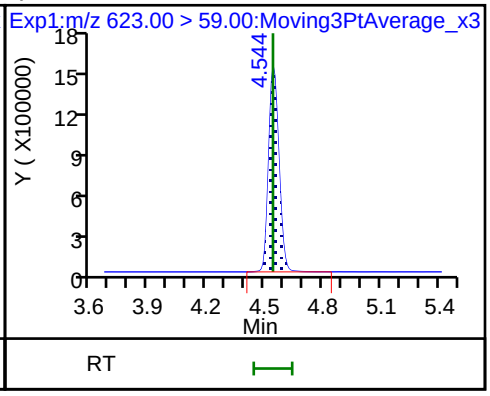
D 45 d5-NEtFOSAA



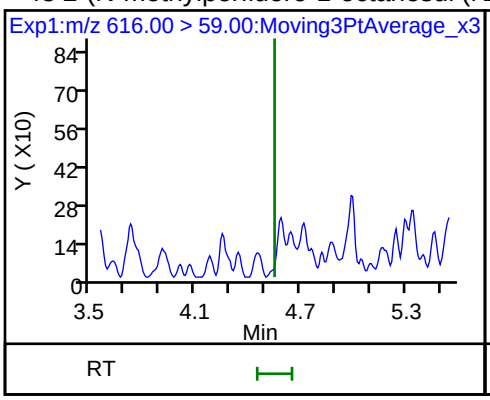
44 N-ethylperfluorooctanesulfonamid (M)



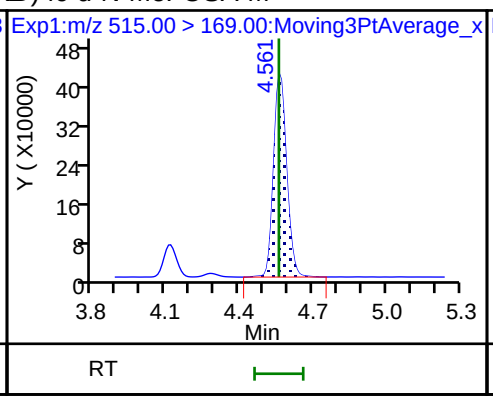
D 47 d7-N-MeFOSE-M



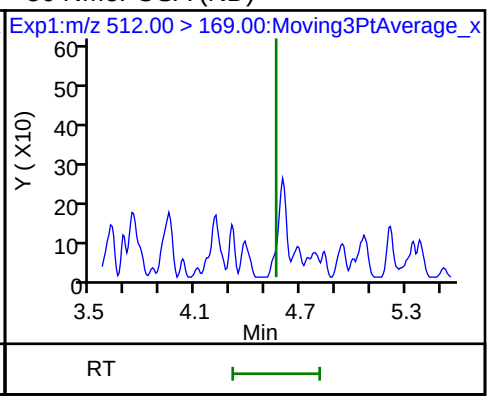
48 2-(N-methylperfluoro-1-octanesul (ND)



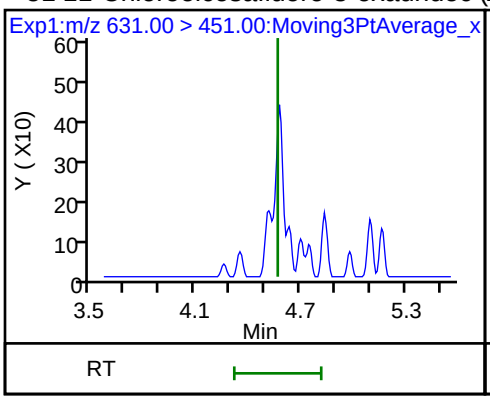
D 49 d-N-MeFOSA-M



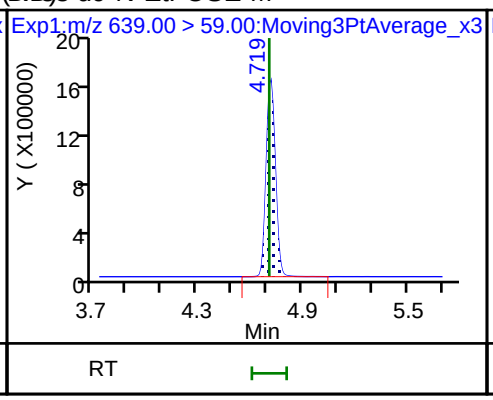
50 NMeFOSA (ND)



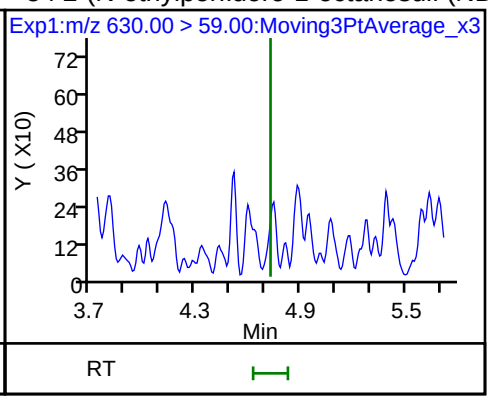
51 11-Chloroeicosafluoro-3-oxaundec (ND)



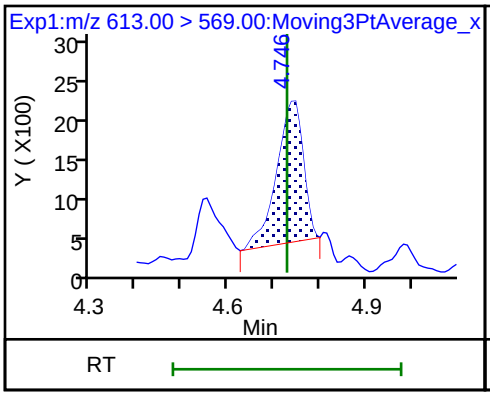
D 53 d9-N-EtFOSE-M



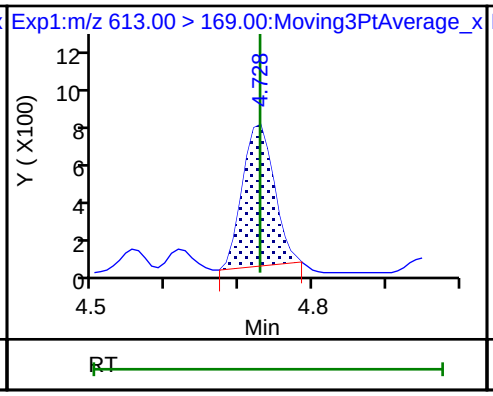
54 2-(N-ethylperfluoro-1-octanesulf (ND)



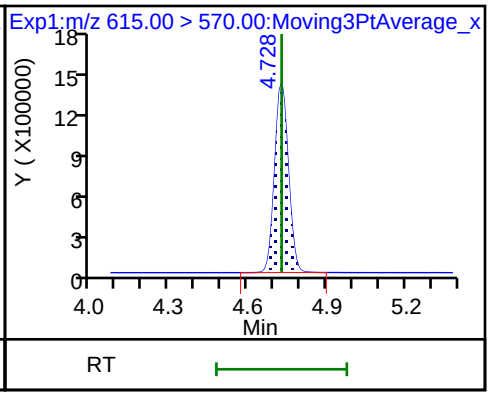
52 Perfluorododecanoic acid



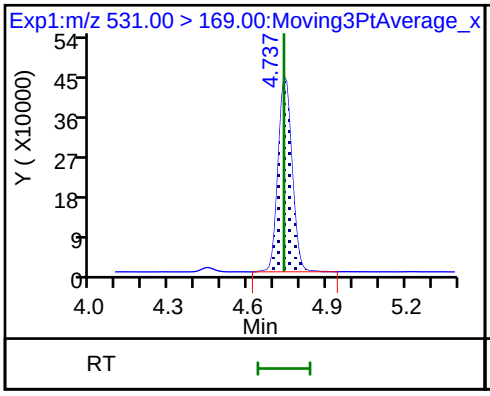
52 Perfluorododecanoic acid



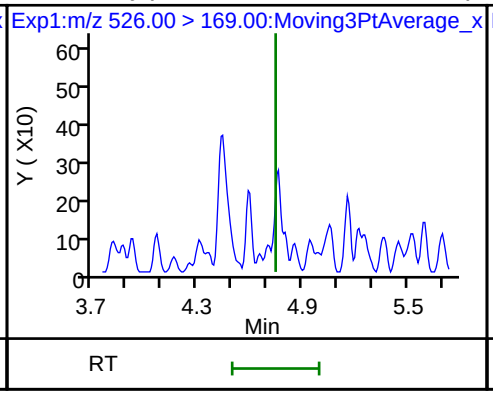
D 56 13C2 PFDoA



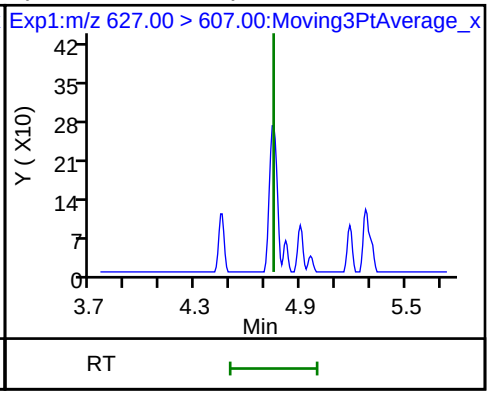
D 58 d-N-EtFOSA-M



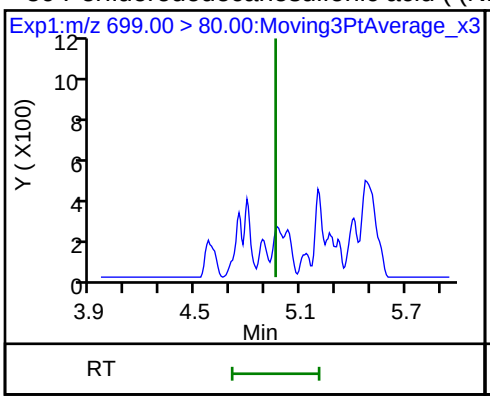
57 N-ethylperfluoro-1-octanesulfona (ND)



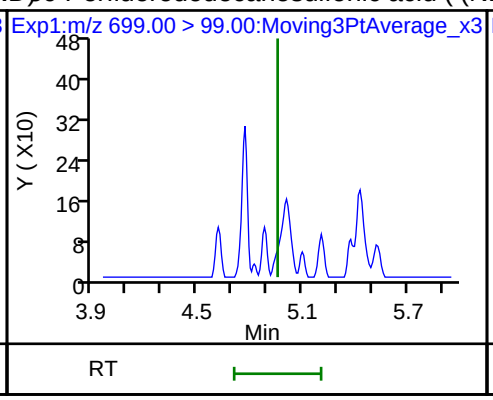
55 1H,1H,2H,2H-perfluorododecanesul (ND)



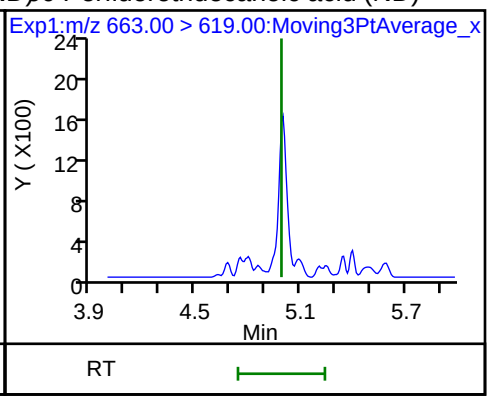
59 Perfluorododecanesulfonic acid ((ND)



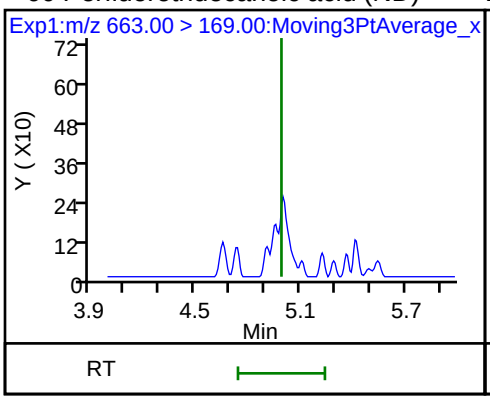
59 Perfluorododecanesulfonic acid ((ND)



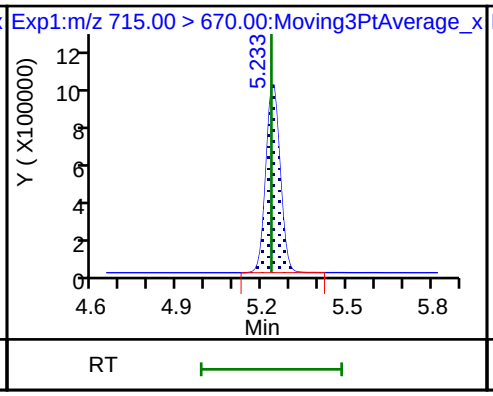
60 Perfluorotridecanoic acid (ND)



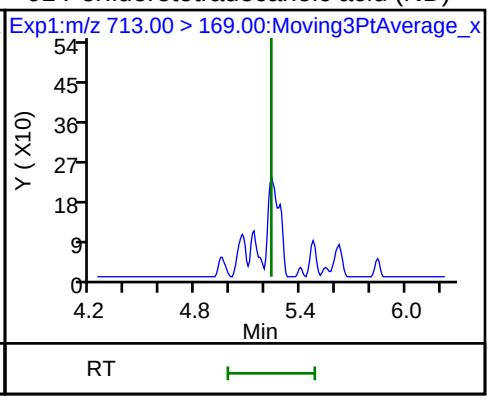
60 Perfluorotridecanoic acid (ND)



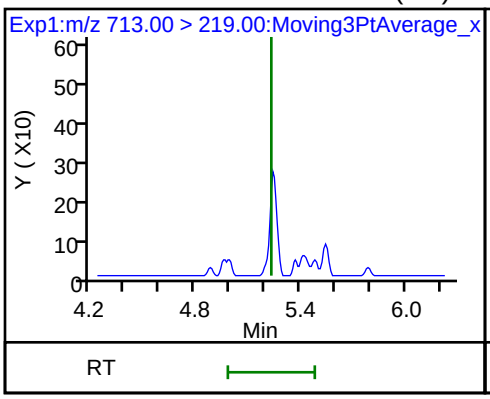
D 62 13C2 PFTeDA



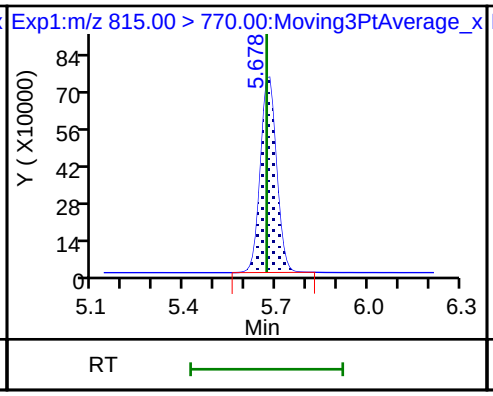
61 Perfluorotetradecanoic acid (ND)



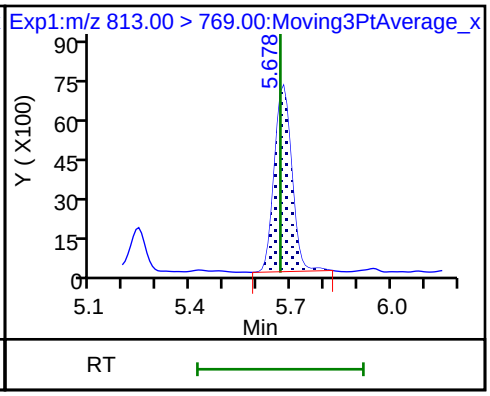
61 Perfluorotetradecanoic acid (ND)



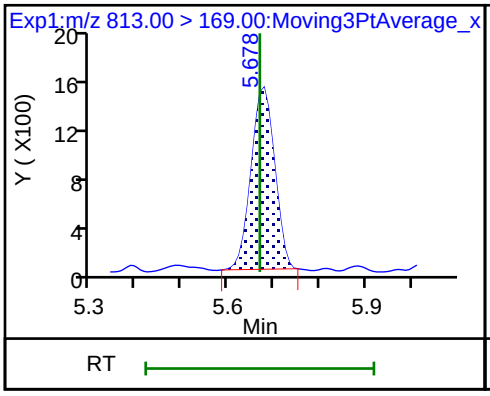
D 63 13C2 PFHxDA



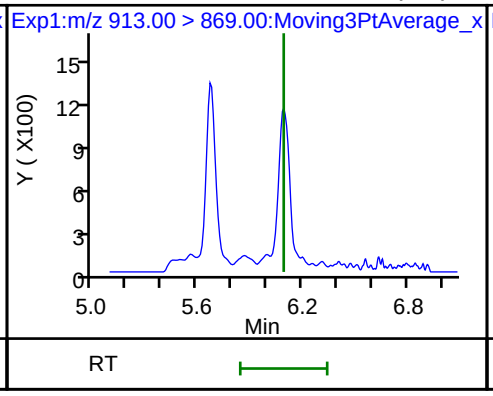
64 Perfluorohexadecanoic acid



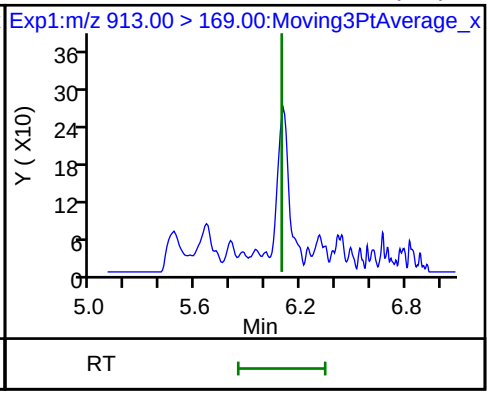
64 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

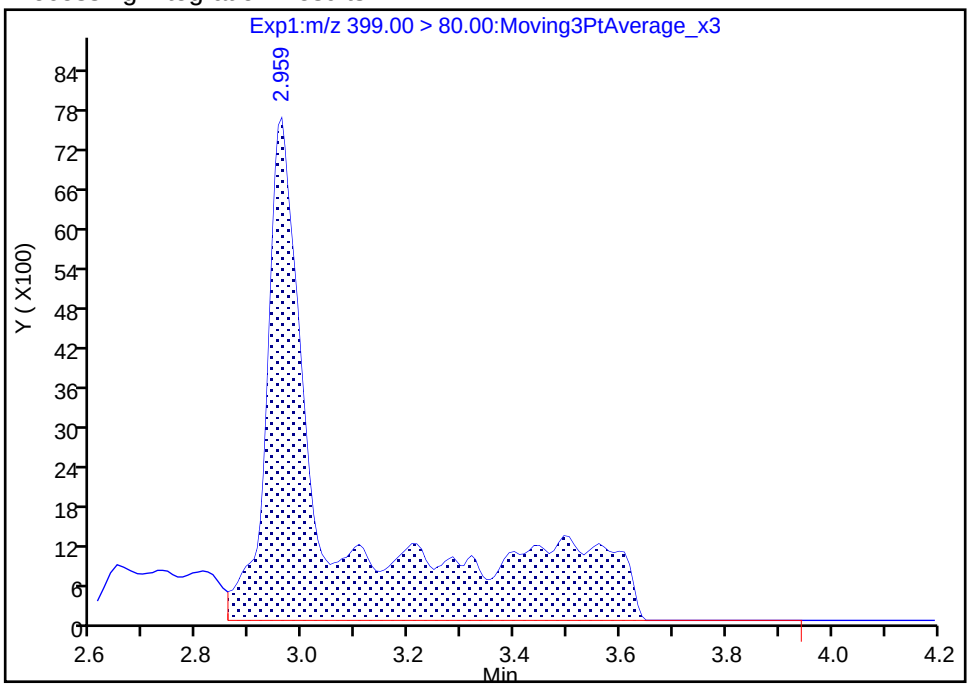
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d
Injection Date: 10-Sep-2020 12:38:41 Instrument ID: A9
Lims ID: ICB
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 17 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

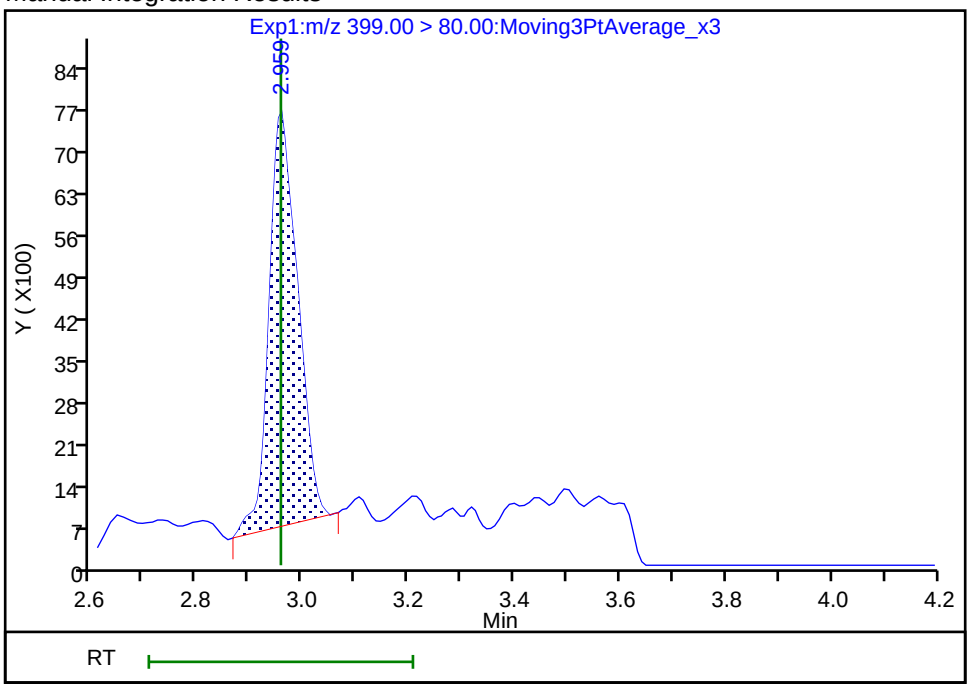
Processing Integration Results

RT: 2.96
Area: 67542
Amount: 0.019987
Amount Units: ng/ml



Manual Integration Results

RT: 2.96
Area: 26241
Amount: 0.007765
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 13:21:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

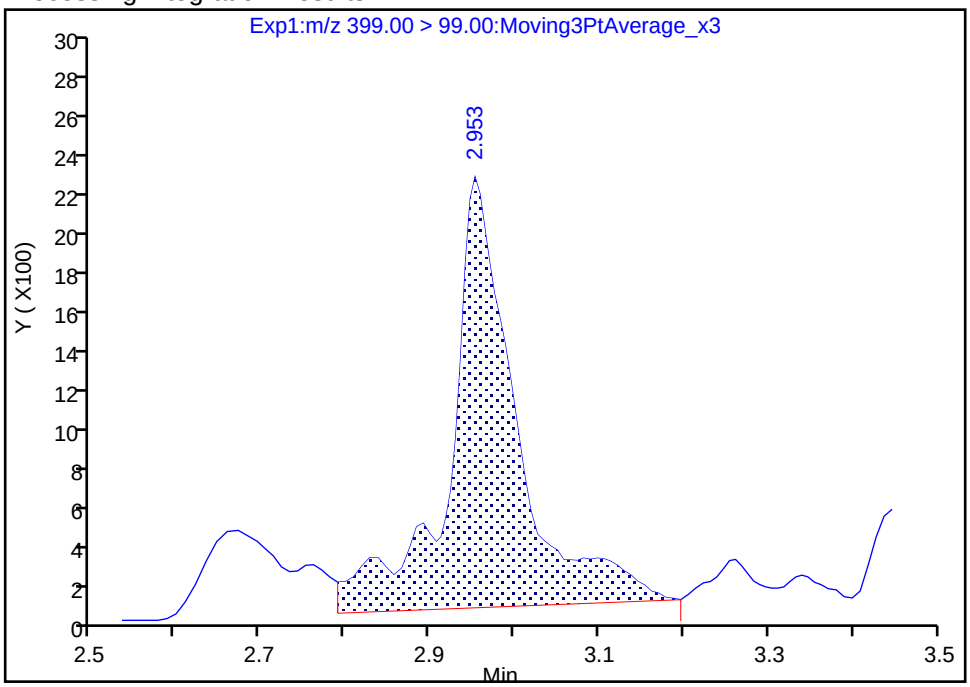
Data File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d
Injection Date: 10-Sep-2020 12:38:41 Instrument ID: A9
Lims ID: ICB
Client ID:
Operator ID: SACINSTRLCMS02 ALS Bottle#: 17 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A9 Limit Group: LC PFC ICAL
Column: Detector EXP1

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

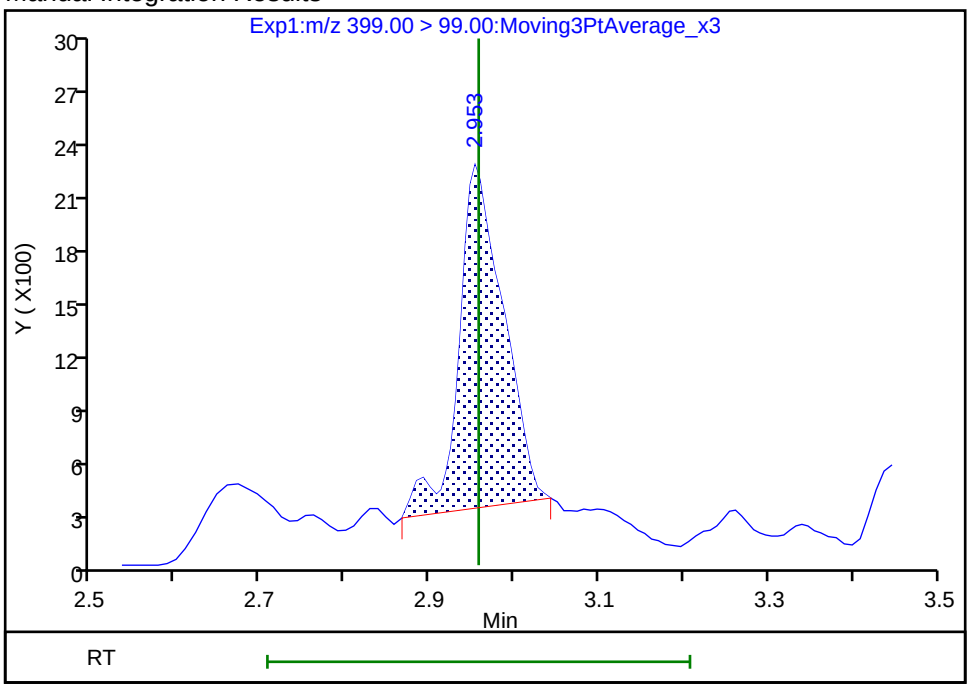
Processing Integration Results

RT: 2.95
Area: 12179
Amount: 0.019987
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 7053
Amount: 0.007765
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 13:21:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

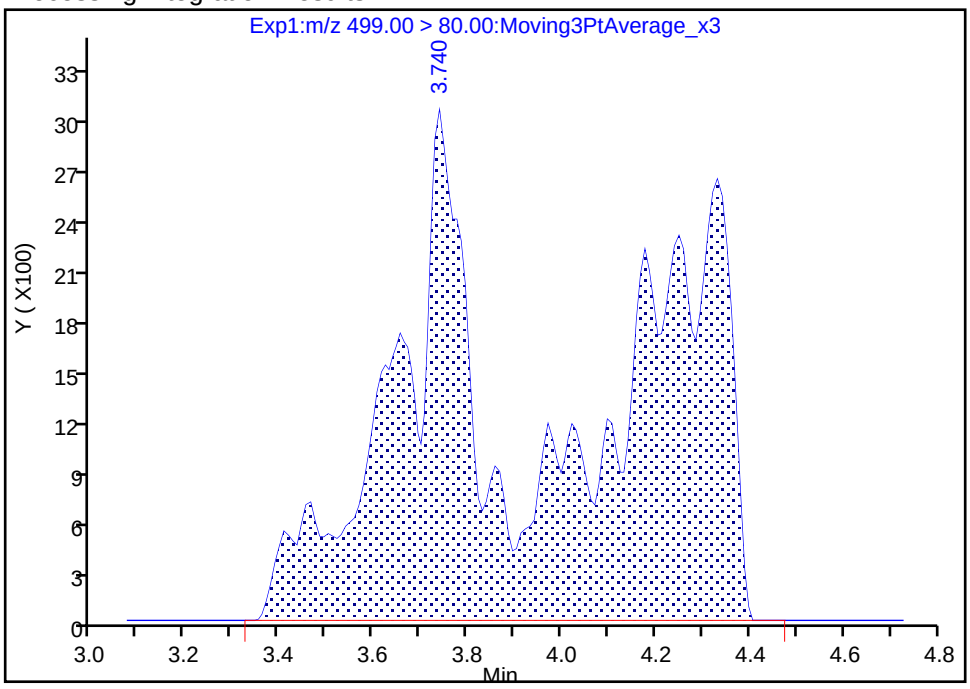
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d				
Injection Date:	10-Sep-2020 12:38:41	Instrument ID:	A9		
Lims ID:	ICB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	17	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

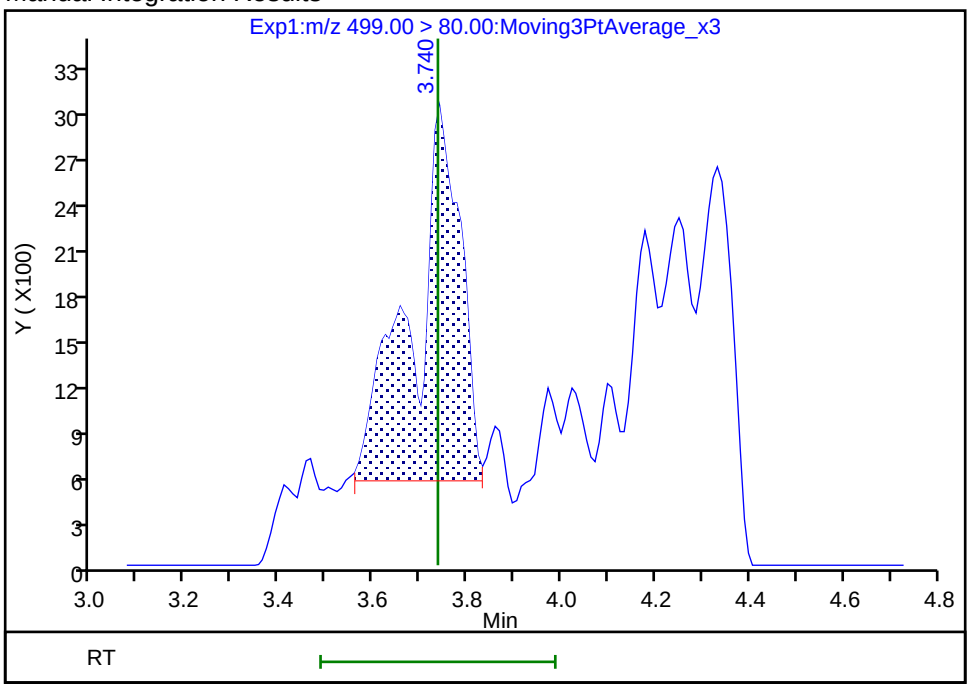
Processing Integration Results

RT: 3.74
Area: 76063
Amount: 0.024544
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 17385
Amount: 0.005610
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 13:22:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

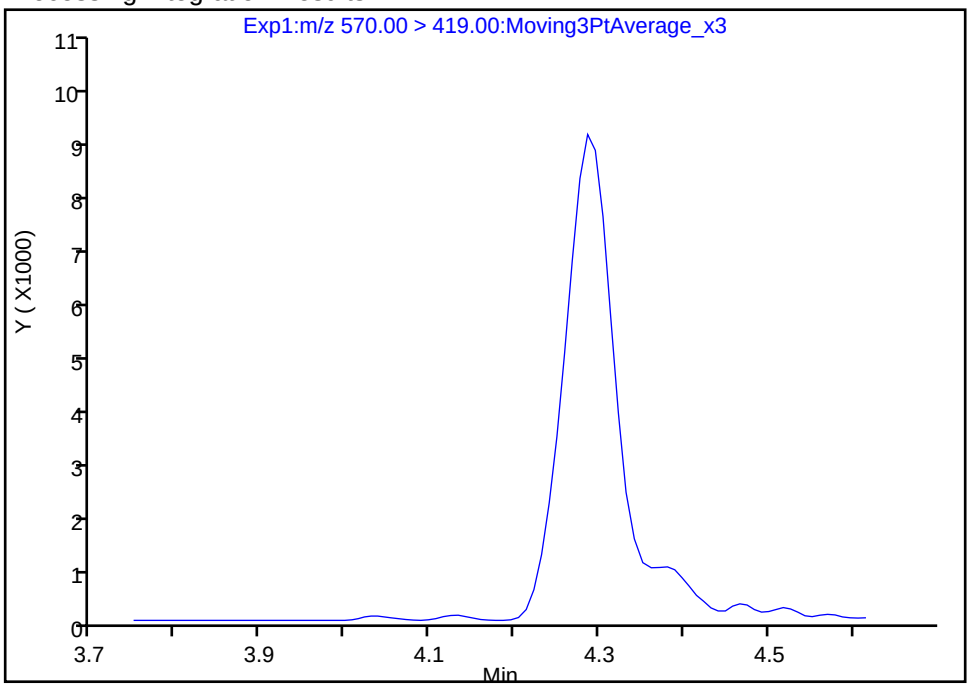
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d				
Injection Date:	10-Sep-2020 12:38:41	Instrument ID:	A9		
Lims ID:	ICB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	17	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

40 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

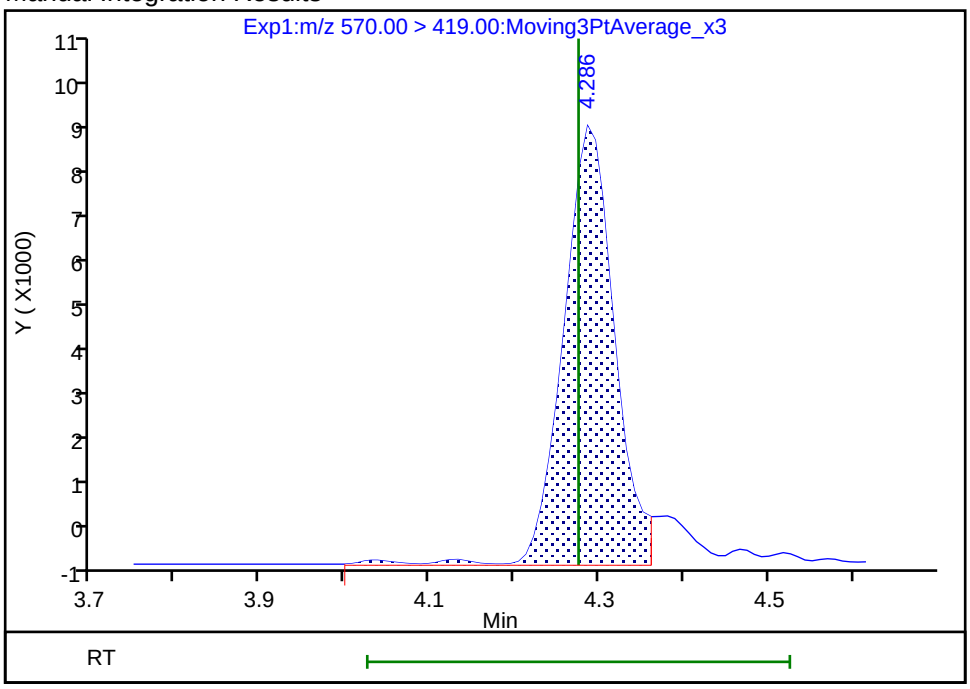
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 35709
Amount: 0.035179
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 16:27:56
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

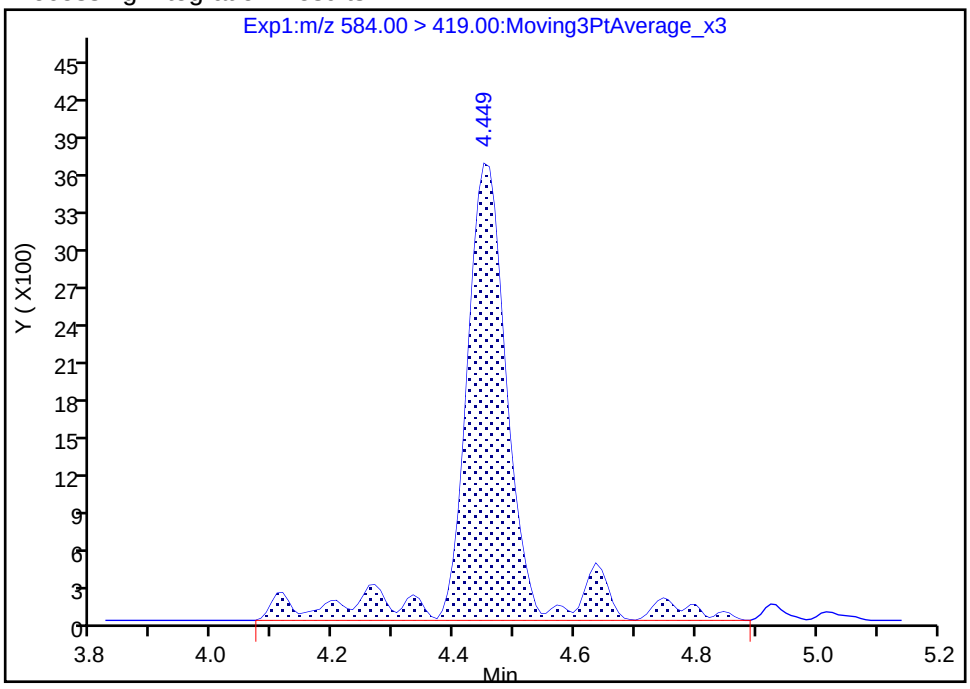
Data File:	\\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_023.d				
Injection Date:	10-Sep-2020 12:38:41	Instrument ID:	A9		
Lims ID:	ICB				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	17	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

44 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

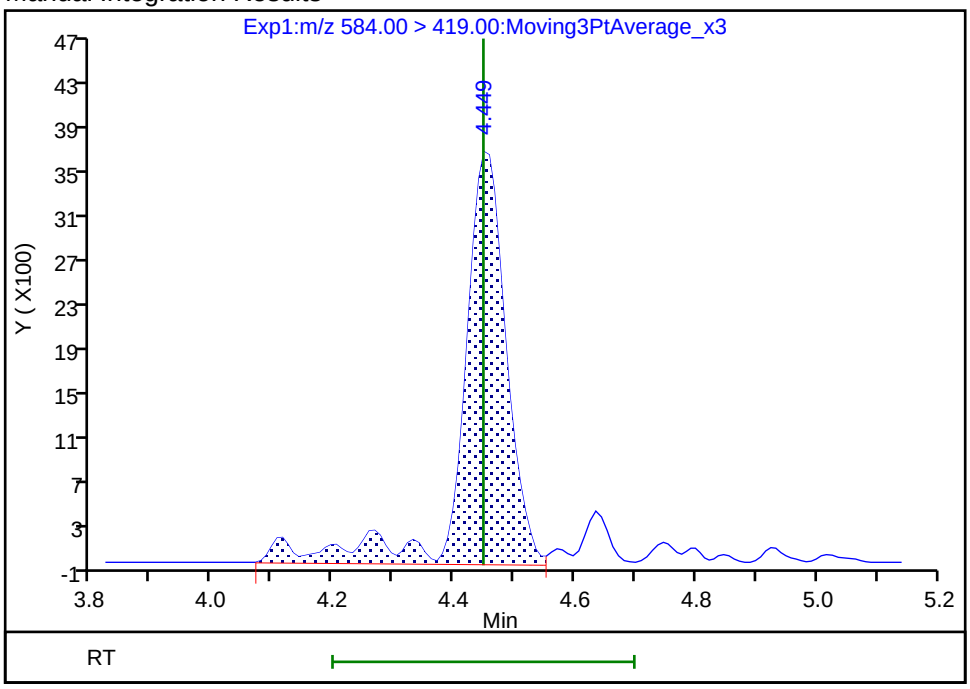
Processing Integration Results

RT: 4.45
Area: 20420
Amount: 0.026287
Amount Units: ng/ml



Manual Integration Results

RT: 4.45
Area: 18629
Amount: 0.023982
Amount Units: ng/ml



Reviewer: zibaa, 10-Sep-2020 13:23:44

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-410910/2-A

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_075.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 15:20

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	39.79		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	37.53		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	36.61		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	34.02		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.17		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	37.61		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	34.20		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	42.31		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	31.77		2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	31.90		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	45.97		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	32.55		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.14		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	36.25		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.50		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.21		2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	39.32		2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.79		20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	36.89		20.0	1.90
27619-97-2	6:2 FTS	35.12		20.0	2.00
39108-34-4	8:2 FTS	36.14		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-410910/2-A

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_075.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 15:20

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	55		25-150
STL01893	13C5 PFPeA	56		25-150
STL00993	13C2 PFHxA	64		25-150
STL01892	13C4 PFHpA	66		25-150
STL00990	13C4 PFOA	58		25-150
STL00995	13C5 PFNA	64		25-150
STL00996	13C2 PFDA	66		25-150
STL00997	13C2 PFUnA	69		25-150
STL00998	13C2 PFDoA	65		25-150
STL02116	13C2 PFTeDA	57		25-150
STL02337	13C3 PFBS	72		25-150
STL00994	18O2 PFHxS	76		25-150
STL00991	13C4 PFOS	72		25-150
STL01056	13C8 FOSA	58		25-150
STL02118	d3-NMeFOSAA	58		25-150
STL02117	d5-NEtFOSAA	62		25-150
STL02279	M2-6:2 FTS	68		25-150
STL02280	M2-8:2 FTS	76		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_075.d
Lims ID: LCS 320-410910/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Sep-2020 15:20:29 ALS Bottle#: 39 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-410910/2-a
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:28:55 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1040

First Level Reviewer: sanjumnair Date: 11-Sep-2020 08:28:55
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.541	2.557	-0.016	0.624	10514756	1.37		54.9	6738	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.541	2.557	-0.016	1.000	3631054	0.99		99.5	157	
D 4 13C5 PFPeA										
267.90 > 223.00	2.888	2.909	-0.021	0.709	8349728	1.40		56.0	3890	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.888	2.909	-0.021	1.000	3124461	0.9384		93.8	138	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.929	2.940	-0.011	1.000	2757188	0.8137	Target=2.30	92.1	607	
298.90 > 99.00	2.929	2.940	-0.011	1.000	1190416		2.32(1.15-3.45)		404	
D 9 13C3 PFBS										
301.90 > 80.00	2.929	2.940	-0.011	0.719	7801550	1.67		71.7	3609	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.223	3.238	-0.015	0.791	1715863	1.52		65.2	797	
8 4:2 FTS										
327.00 > 307.00	3.223	3.238	-0.015	1.000	1447603	0.8667		92.8	5704	
D 11 13C2 PFHxA										
315.00 > 270.00	3.268	3.278	-0.010	0.802	9516908	1.60		64.0	5734	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.288	-0.020	1.000	3358297	0.9153	Target=13.35	91.5	225	
313.00 > 119.00	3.268	3.288	-0.020	1.000	246272		13.64(6.67-20.02)		158	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.288	3.298	-0.010	1.122	2452209	0.9221	Target=2.97	98.3	529	
349.00 > 99.00	3.288	3.298	-0.010	1.122	823654		2.98(1.48-4.45)		540	
13 HPFO-DA										
285.00 > 169.00	3.394	3.405	-0.011	1.000	647379	1.01		101	2641	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.394	3.405	-0.011	0.833	1638857	1.35		53.9	4641	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.671	3.691	-0.020	0.997	2899377	0.8504	Target=4.05	85.0	304	
363.00 > 169.00	3.671	3.691	-0.020	0.997	768834		3.77(2.03-6.08)		540	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.681	3.691	-0.010	1.000	1777389	0.8034	Target=3.35	88.3	13254	
399.00 > 99.00	3.681	3.691	-0.010	1.000	519096		3.42(1.67-5.02)		449	
D 17 18O2 PFHxS										
403.00 > 84.00	3.681	3.691	-0.010	0.904	4428716	1.79		75.7	13343	
D 18 13C4 PFHpA										
367.00 > 322.00	3.681	3.691	-0.010	0.904	8408081	1.66		66.2	6778	
19 DONA										
377.00 > 251.00	3.720	3.740	-0.020	0.838	8689250	0.7549	Target=2.39	80.1	4997	
377.00 > 85.00	3.720	3.740	-0.020	0.838	3543922		2.45(1.20-3.59)		2900	
21 6:2 FTS										
427.00 > 407.00	4.050	4.058	-0.008	1.000	1296062	0.8779		92.6	1668	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.050	4.058	-0.008	0.994	1525275	1.61		67.9	1028	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.066	4.074	-0.008	0.916	1216713	0.9063	Target=4.24	95.2	555	
449.00 > 99.00	4.066	4.074	-0.008	0.916	286296		4.25(2.12-6.36)		356	
* 23 13C2 PFOA										
415.00 > 370.00	4.074	4.082	-0.008		12085104	2.50			7381	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.074	4.082	-0.008	1.000	2810991	0.9792	Target=3.01	97.9	371	
413.00 > 169.00	4.074	4.082	-0.008	1.000	1009257		2.79(1.50-4.51)		649	
D 25 13C4 PFOA										
417.00 > 372.00	4.074	4.082	-0.008	1.000	7033084	1.45		58.1	5448	
D 27 13C4 PFOS										
503.00 > 80.00	4.438	4.446	-0.008	1.089	2871085	1.71		71.7	1416	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.438	4.446	-0.008	1.000	1103591	0.8876	Target=4.54	95.6	433	M
499.00 > 99.00	4.438	4.446	-0.008	1.000	231062		4.78(2.27-6.82)		286	M
D 30 13C5 PFNA										
468.00 > 423.00	4.446	4.462	-0.016	1.091	6252889	1.60		64.2	7114	
31 Perfluorononanoic acid										
463.00 > 419.00	4.454	4.470	-0.016	1.002	2255266	0.9402	Target=8.44	94.0	428	
463.00 > 169.00	4.454	4.470	-0.016	1.002	266465		8.46(4.22-12.67)		456	
32 9ClFOS										
531.00 > 351.00	4.641	4.647	-0.006	1.046	3224822	0.8296		89.0	5937	
D 33 13C8 FOSA										
506.00 > 78.00	4.777	4.786	-0.009	1.173	3940647	1.46		58.3	4651	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.777	4.786	-0.009	1.000	1441646	0.9829		98.3	2553	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.786	4.794	-0.008	1.078	974803	0.8662	Target=2.79	90.2	569	
549.00 > 99.00	4.786	4.794	-0.008	1.078	332009		2.94(1.39-4.18)		495	
D 39 13C2 PFDA										
515.00 > 470.00	4.811	4.820	-0.009	1.181	6208825	1.64		65.6	9311	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.811	4.820	-0.009	1.000	2046800	0.8550	Target=8.83	85.5	624	
513.00 > 169.00	4.811	4.820	-0.009	1.000	227450		9.00(4.42-13.25)		211	
36 8:2 FTS										
527.00 > 507.00	4.811	4.820	-0.009	1.000	1655792	0.9035		94.3	5976	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.811	4.820	-0.009	1.181	2472813	1.81		75.7	1536	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.977	4.978	-0.001	1.222	3672134	1.45		57.8	3865	
41 NMeFOSAA										
570.00 > 419.00	4.977	4.989	-0.012	1.000	1111017	1.02		102	1415	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.102	5.112	-0.010	1.150	857964	0.8553	Target=2.85	88.7	806	
599.00 > 99.00	5.102	5.112	-0.010	1.150	304437		2.82(1.43-4.28)		719	
D 43 13C2 PFUnA										
565.00 > 520.00	5.129	5.139	-0.010	1.259	6473566	1.73		69.0	14880	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.138	5.148	-0.010	1.261	4147905	1.54		61.8	3667	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.138	5.148	-0.010	1.002	1986568	1.06	Target=8.45	106	1019	
563.00 > 169.00	5.129	5.148	-0.019	1.000	205423		9.67(4.22-12.67)		475	
46 NEtFOSA										
584.00 > 419.00	5.138	5.157	-0.019	1.000	1034229	0.9224		92.2	2128	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.238	5.240	-0.002	1.286	1723266	2.58		20.6	1152	
48 N-MeFOSE-M										
616.00 > 59.00	5.248	5.249	-0.001	1.002	161791	1.09		109	255	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.258	5.259	-0.001	1.291	1030719	1.09		43.4	36.9	
50 NMeFOSA										
512.00 > 169.00	5.258	5.270	-0.012	1.000	413249	1.04		104	354	
51 11ClFOS										
631.00 > 451.00	5.268	5.280	-0.012	1.187	3810573	0.7734		82.1	8807	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.405	5.416	-0.011	1.327	1677417	2.04		16.3	933	
53 N-EtFOSE-M										
630.00 > 59.00	5.426	5.426	0.0	1.004	128757	0.8943		89.4	159	
D 56 13C2 PFDoA										
615.00 > 570.00	5.426	5.437	-0.011	1.332	5988774	1.62		64.8	7840	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.426	5.437	-0.011	1.000	1945322	0.7942	Target=8.28	79.4	988	
613.00 > 169.00	5.426	5.437	-0.011	1.000	232093		8.38(4.14-12.41)		570	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.437	5.437	0.0	1.335	749622	0.7711		30.8	152	
55 N-EtFOSA-M										
526.00 > 169.00	5.448	5.448	0.0	1.002	311283	0.9808		98.1	183	
58 10:2 FTS										
627.00 > 607.00	5.437	5.459	-0.022	1.130	1678867	0.8074		83.8	5138	
59 PFDoS										
699.00 > 80.00	5.654	5.667	-0.013	1.274	353761	0.8846	Target=0.71	91.4	341	
699.00 > 99.00	5.654	5.667	-0.013	1.274	495089		0.71(0.36-1.07)		1378	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.691	5.701	-0.011	1.049	1797744	0.7976	Target=7.29	79.8	1175	
663.00 > 169.00	5.701	5.701	0.0	1.051	284243		6.32(3.65-10.94)		1015	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.936	5.948	-0.012	1.457	4384603	1.44		57.5	7209	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.936	5.948	-0.012	1.000	170099	1.15	Target=1.00	115	897	
713.00 > 219.00	5.925	5.948	-0.023	0.998	203975		0.83(0.50-1.50)		1104	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.377	6.377	0.0	1.565	3623865	1.62		64.9	7078	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.377	6.386	-0.009	1.000	1316331	1.01	Target=9.97	101	1275	
813.00 > 169.00	6.368	6.386	-0.018	0.999	138047		9.54(4.98-14.95)		1073	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.808	6.835	-0.027	1.068	1037847	1.08	Target=12.11	108	1218	
913.00 > 169.00	6.822	6.835	-0.013	1.070	80057		12.96(6.05-18.16)		875	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:28:56 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_075.d

Injection Date: 10-Sep-2020 15:20:29 Instrument ID: A18

Lims ID: LCS 320-410910/2-A

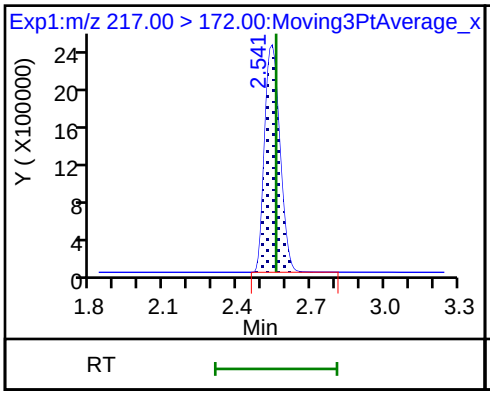
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 39 Worklist Smp#: 3

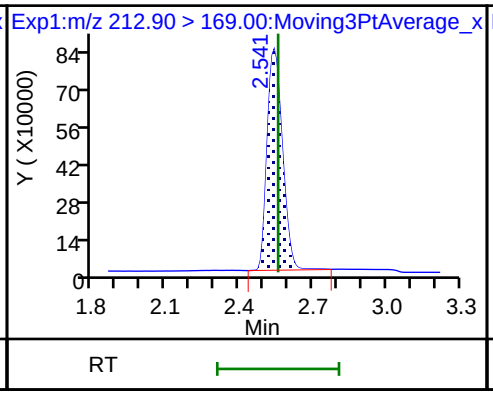
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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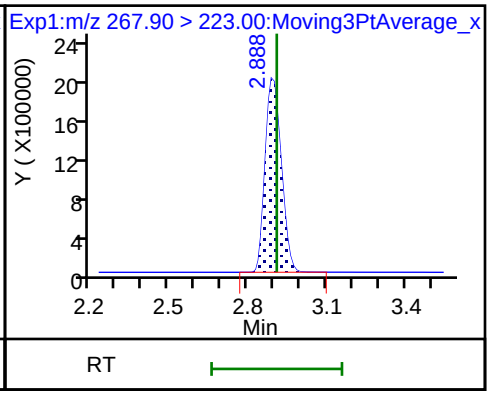
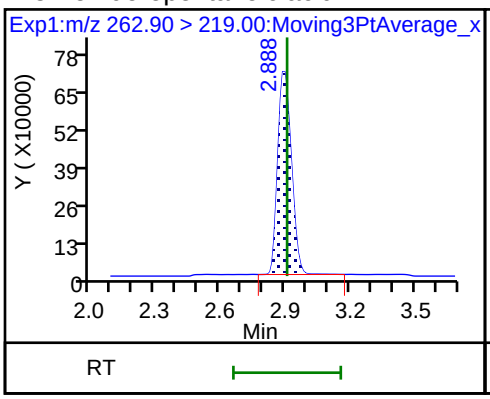


5 Perfluoropentanoic acid



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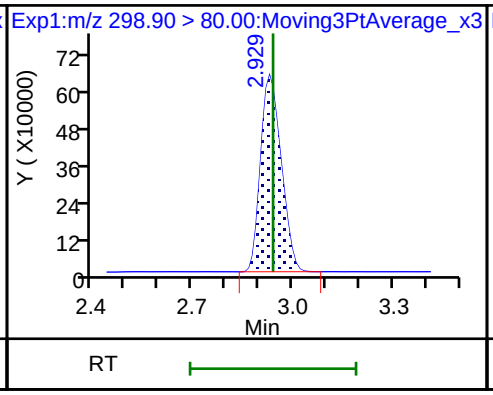

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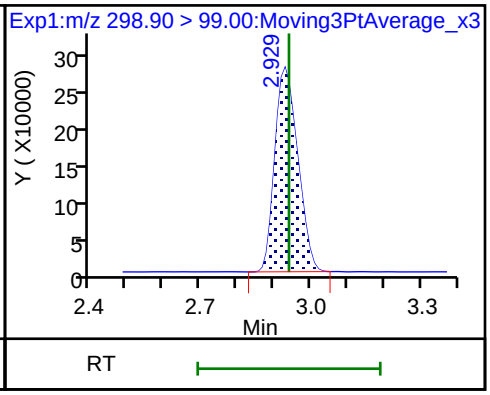
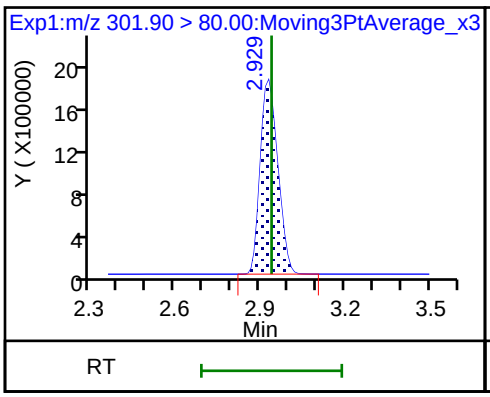
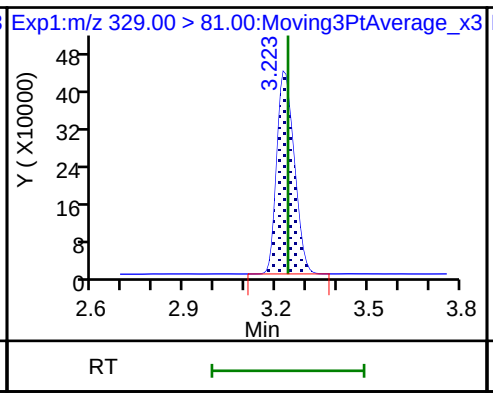


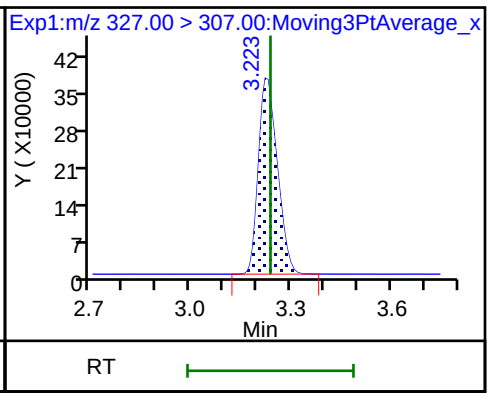
D 9 13C3 PFBS



D 7 M2-4:2 FTS



8 4:2 FTS



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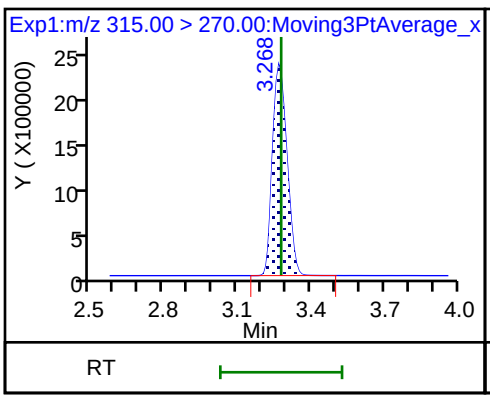

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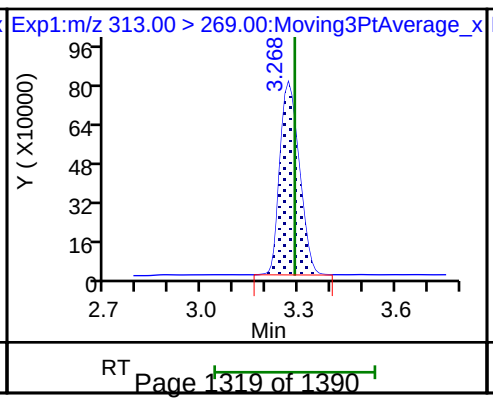

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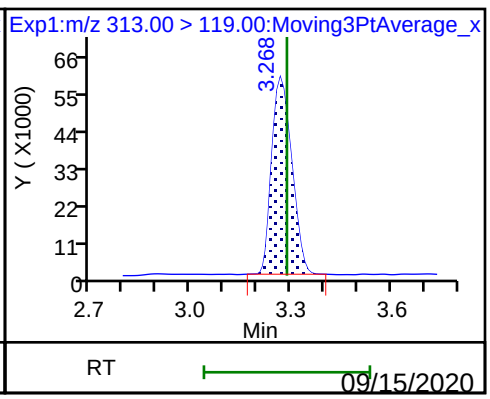
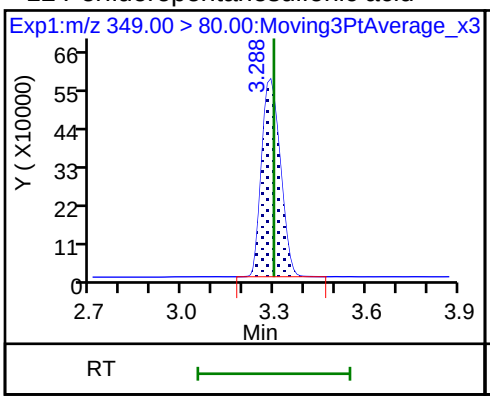


12 Perfluoropentanesulfonic acid



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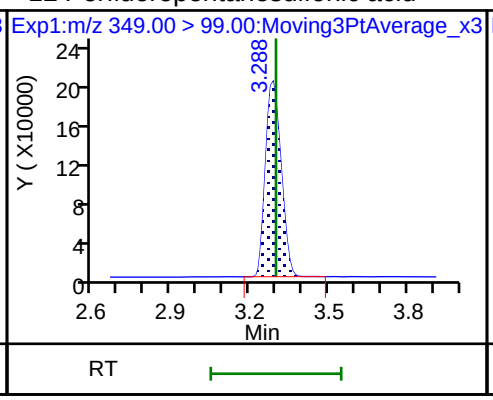
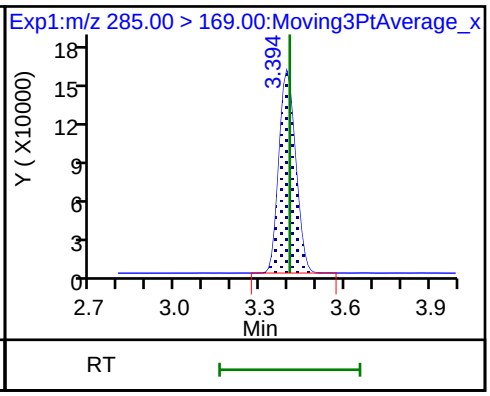
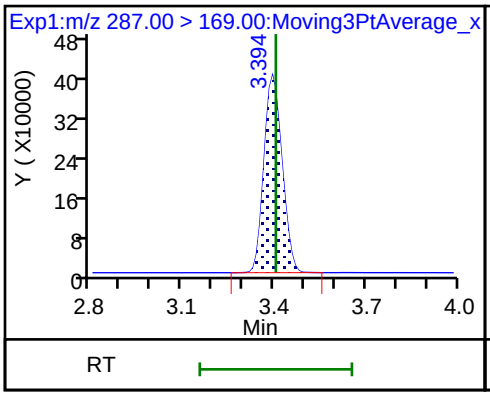


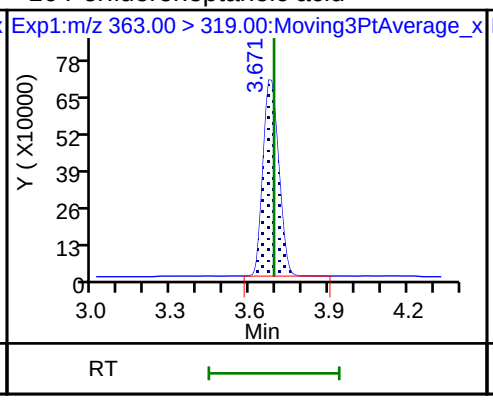
13 HPFO-DA



D 14 13C3 HFPO-DA



16 Perfluoroheptanoic acid



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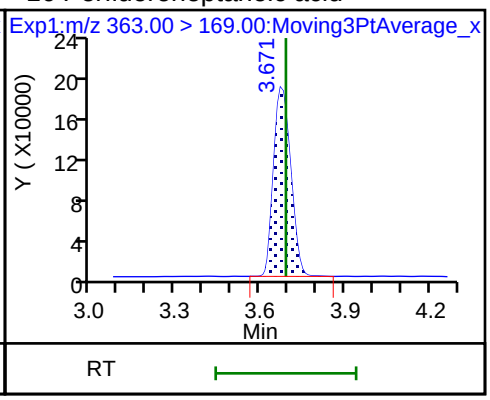

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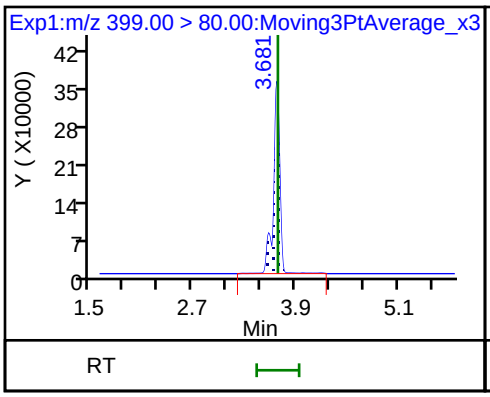

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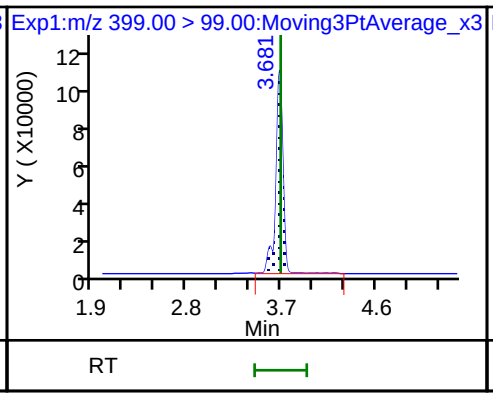
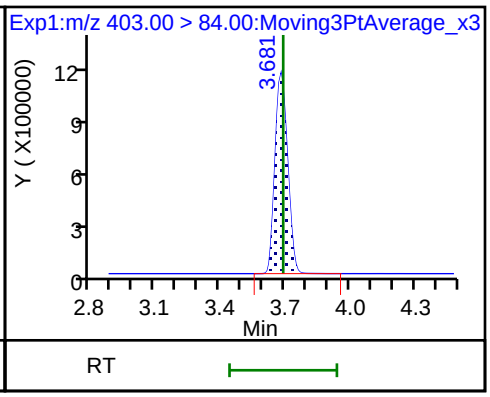
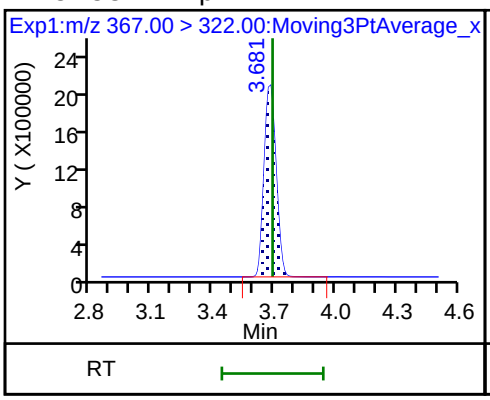


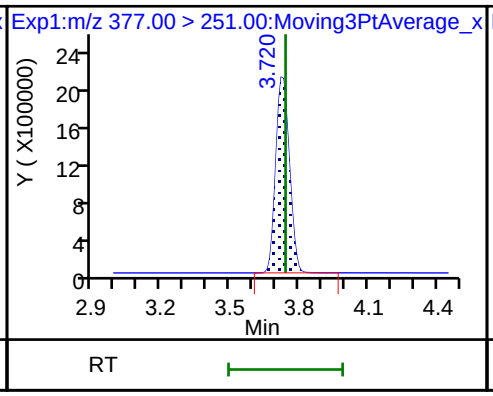
D 17 18O2 PFHxS



D 18 13C4 PFHpA



19 DONA



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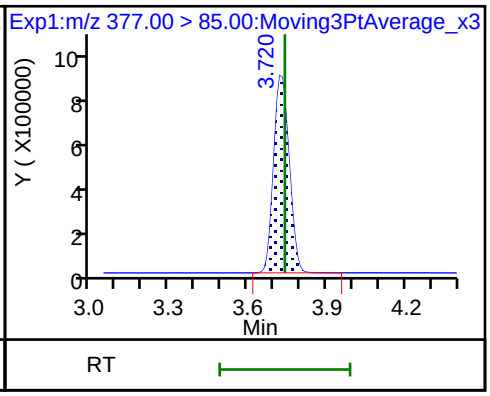
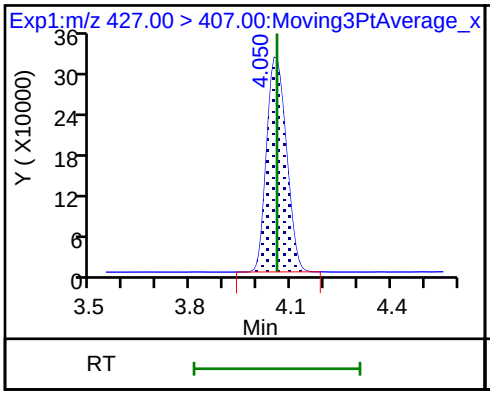


21 6:2 FTS



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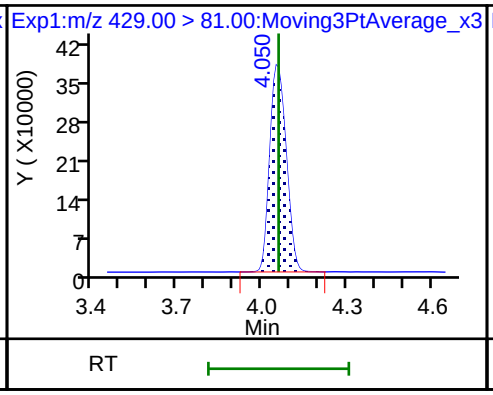
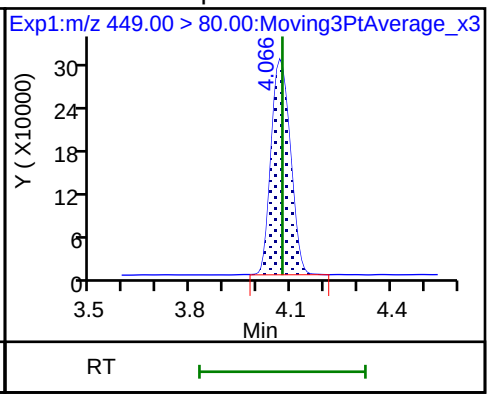
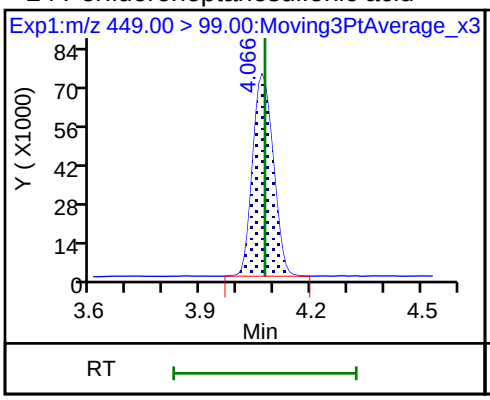


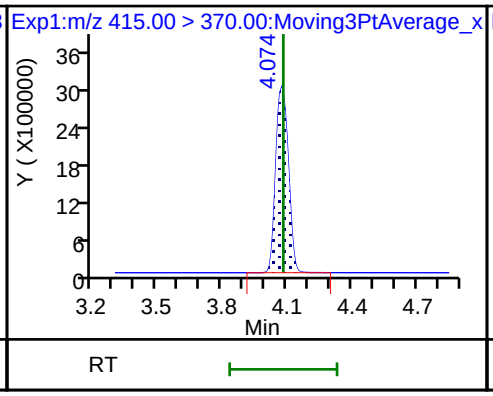
24 Perfluoroheptanesulfonic acid



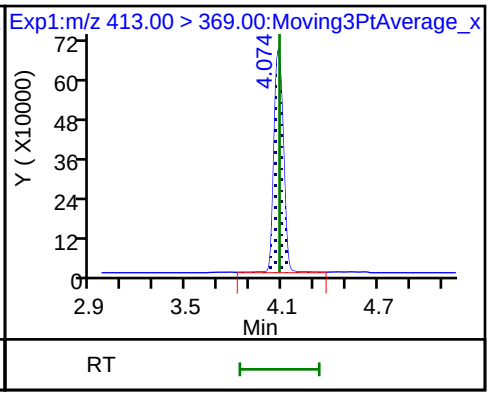
24 Perfluoroheptanesulfonic acid



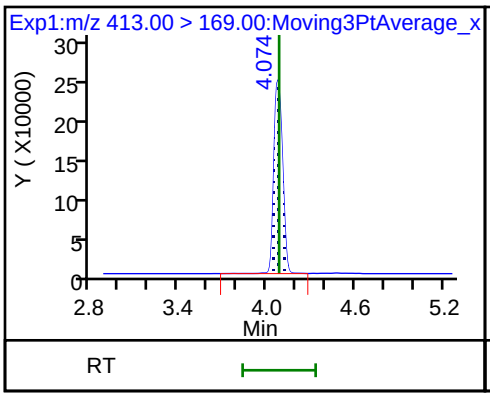
* 23 13C2 PFOA



22 Perfluorooctanoic acid



22 Perfluorooctanoic acid



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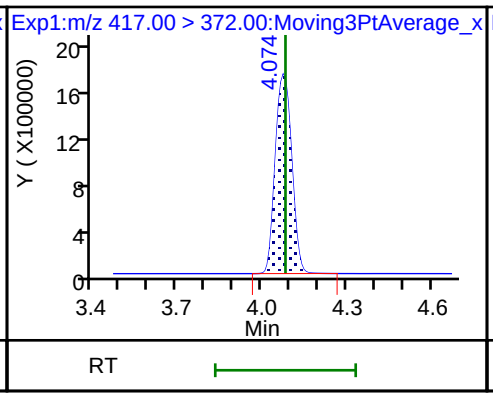

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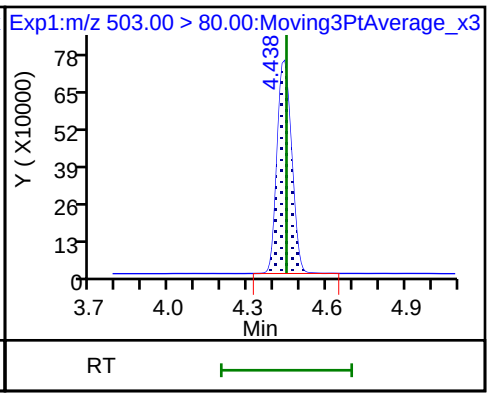
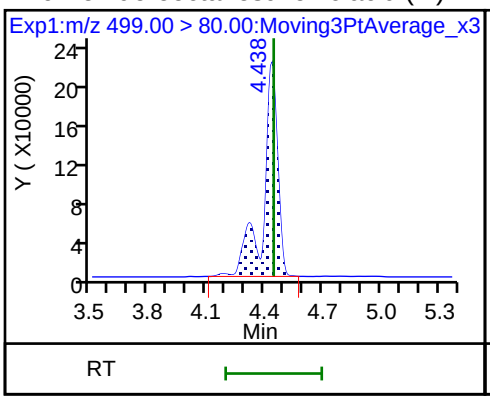
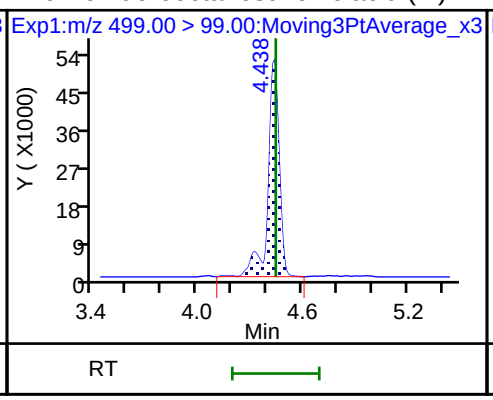


29 Perfluorooctanesulfonic acid (M)



29 Perfluorooctanesulfonic acid (M)



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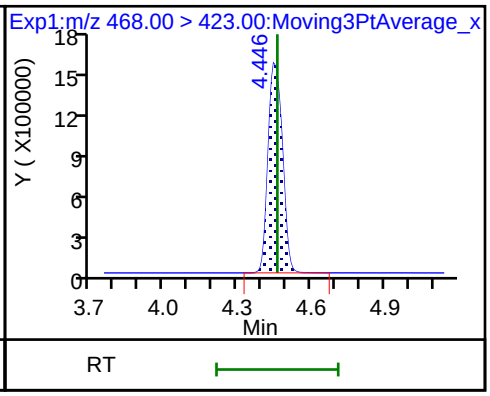
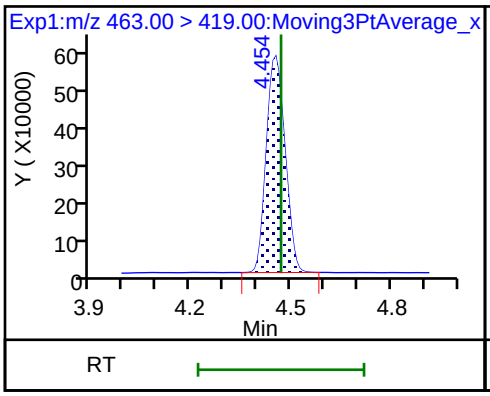
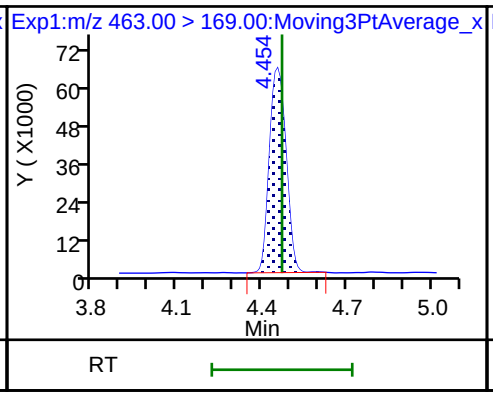


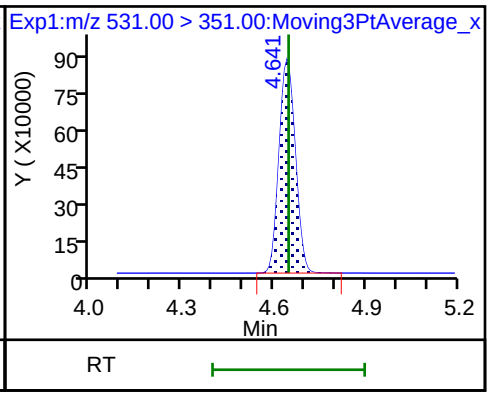
31 Perfluorononanoic acid



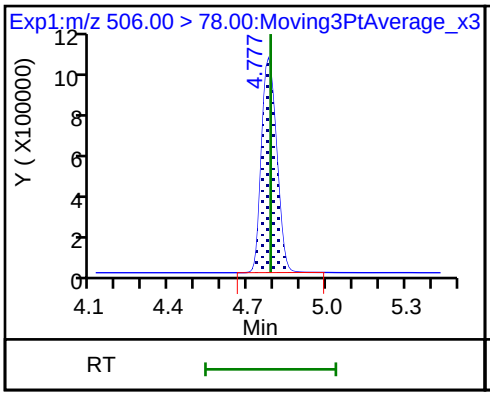
31 Perfluorononanoic acid



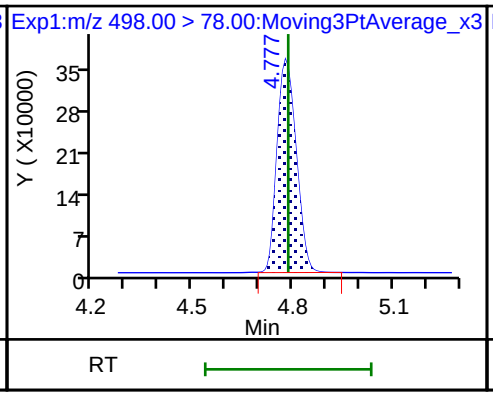
32 9ClFOS



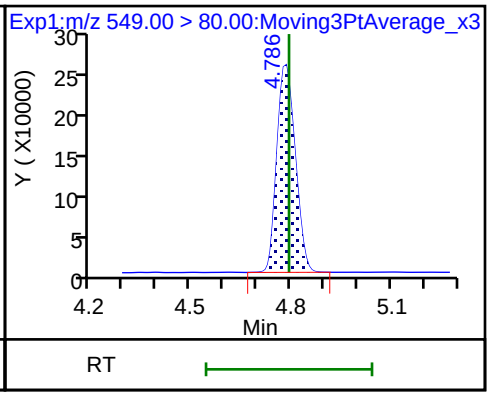
D 33 13C8 FOSA



34 Perfluorooctanesulfonamide



35 Perfluorononanesulfonic acid



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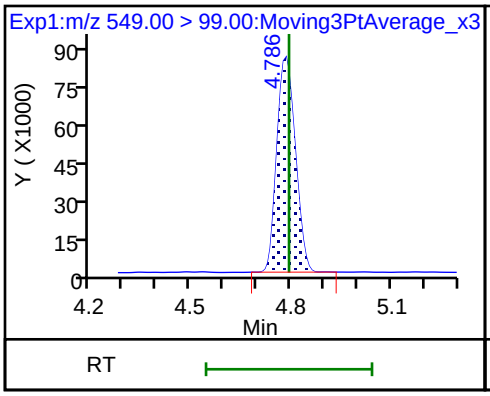
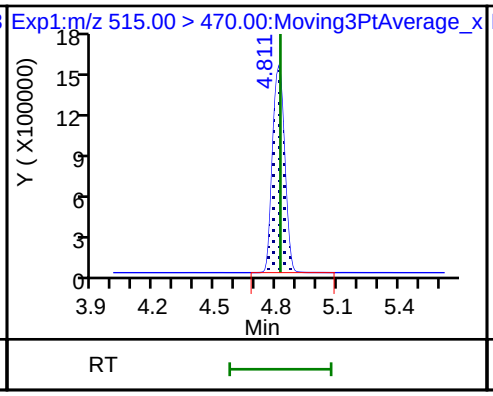
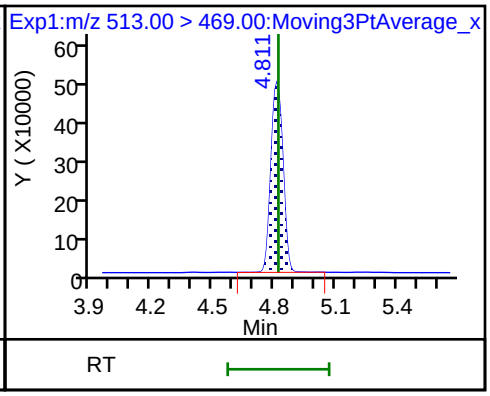


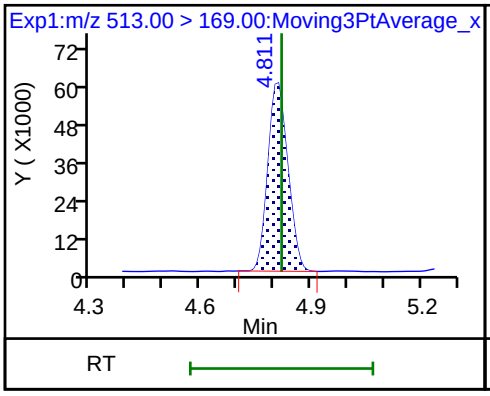
D 39 13C2 PFDA



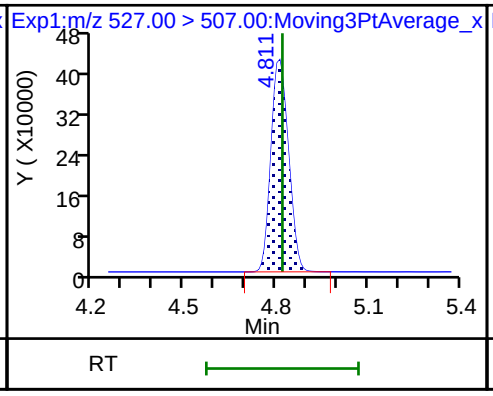
37 Perfluorodecanoic acid



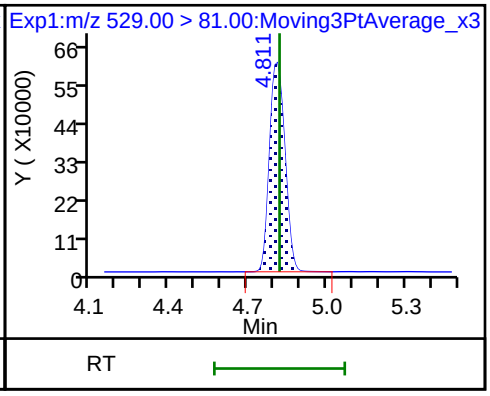
37 Perfluorodecanoic acid



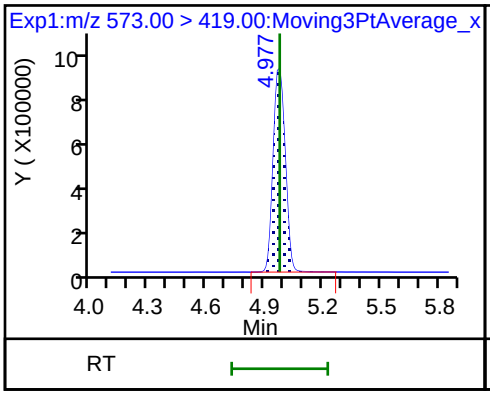
36 8:2 FTS



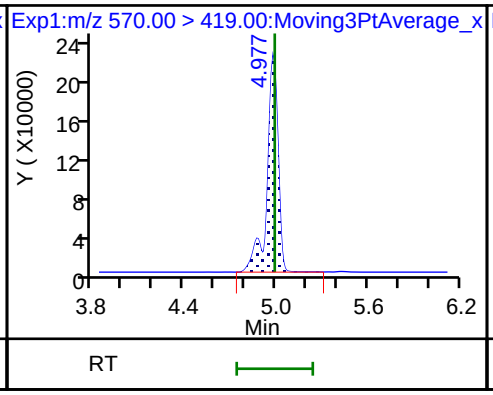
D 38 M2-8:2 FTS



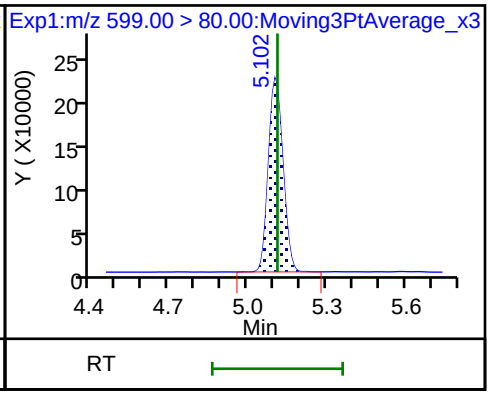
D 40 d3-NMeFOSAA



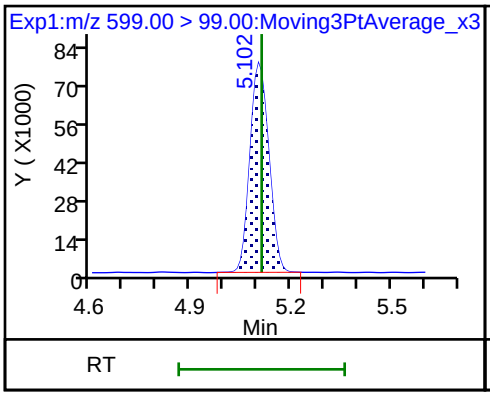
41 NMeFOSAA



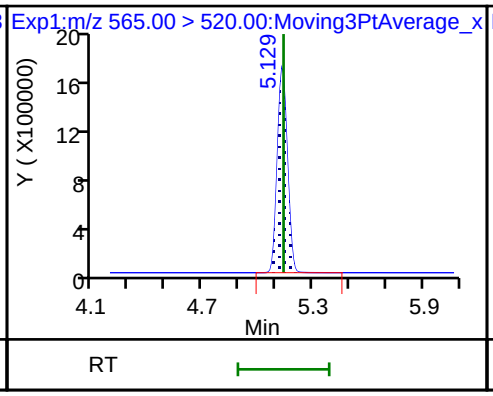
42 Perfluorodecanesulfonic acid



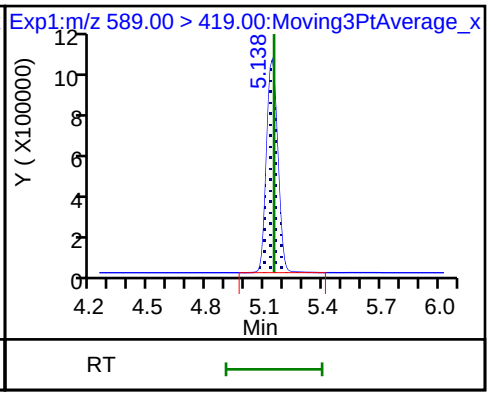
42 Perfluorodecanesulfonic acid



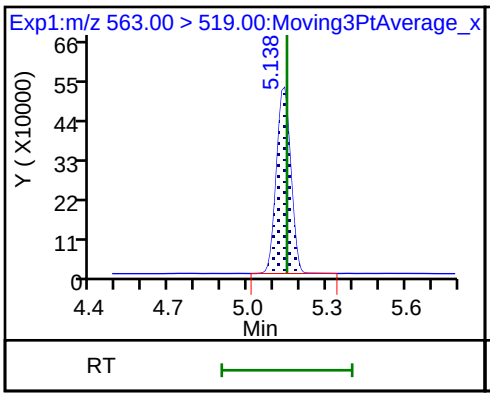
D 43 13C2 PFUnA



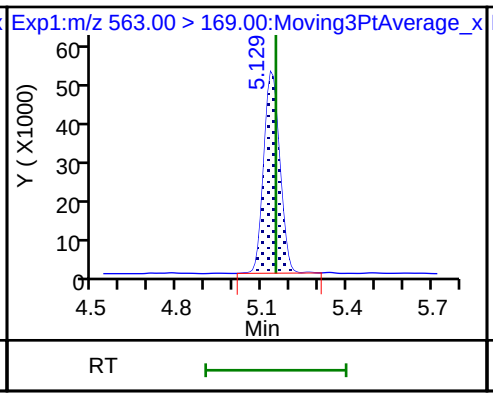
D 44 d5-NEtFOSAA



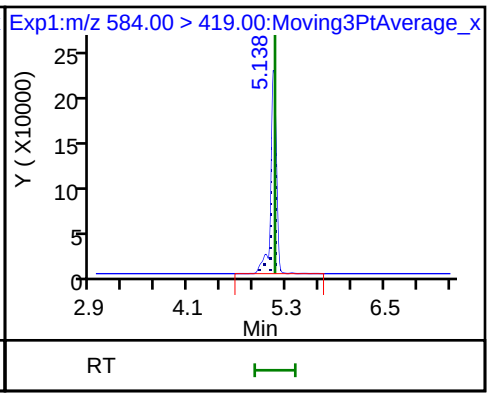
45 Perfluoroundecanoic acid



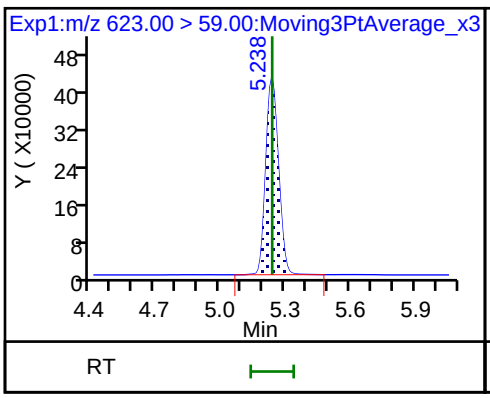
45 Perfluoroundecanoic acid



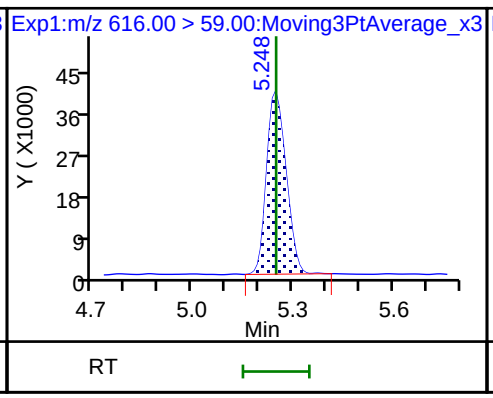
46 NEtFOSA



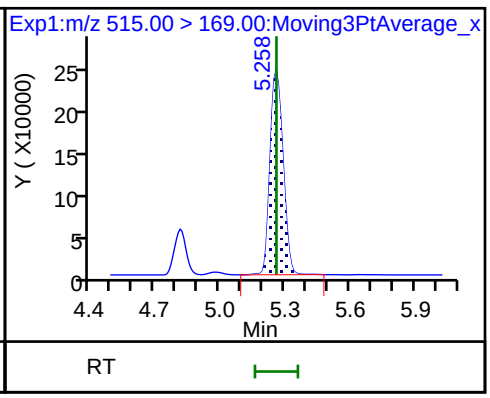
D 47 d7-N-MeFOSE-M



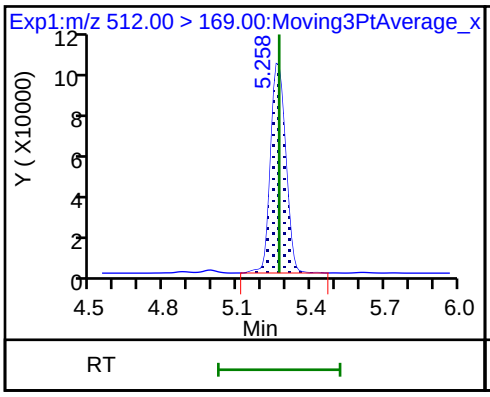
48 N-MeFOSE-M



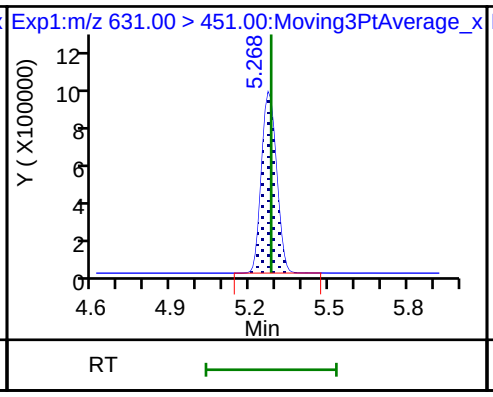
D 49 d-N-MeFOSA-M



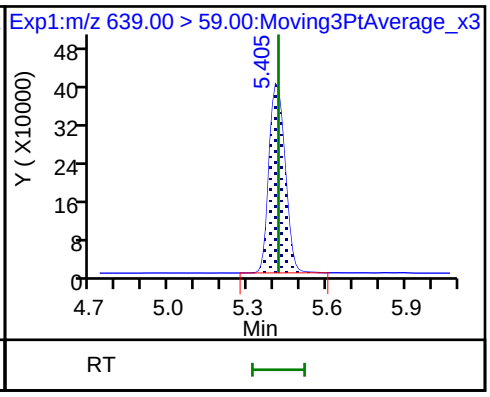
50 NMeFOSA



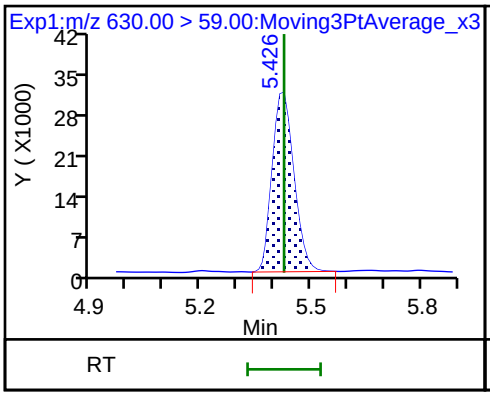
51 11ClFOS



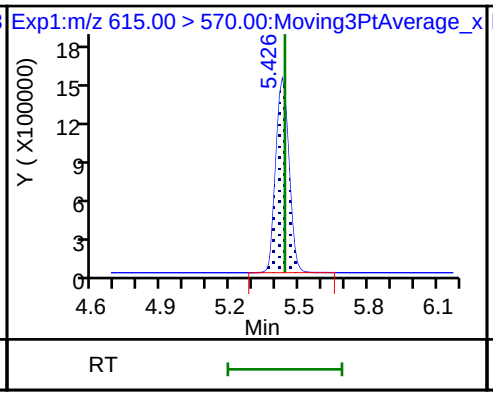
D 52 d9-N-EtFOSE-M



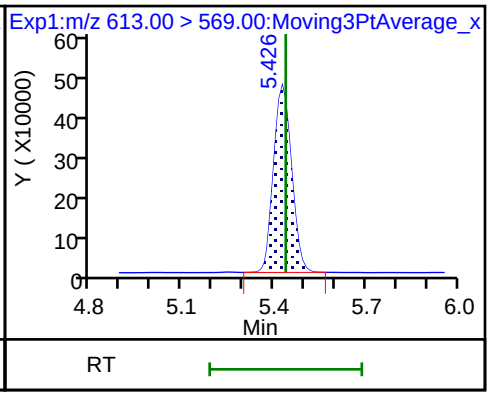
53 N-EtFOSE-M



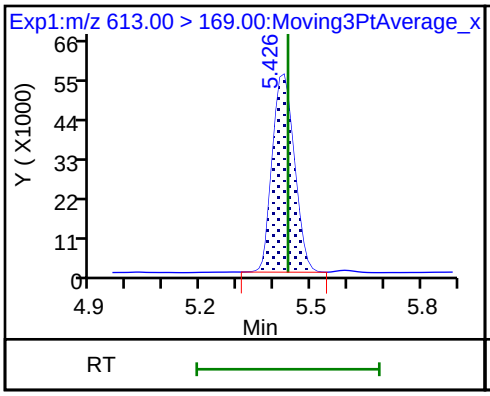
D 56 13C2 PFDoA



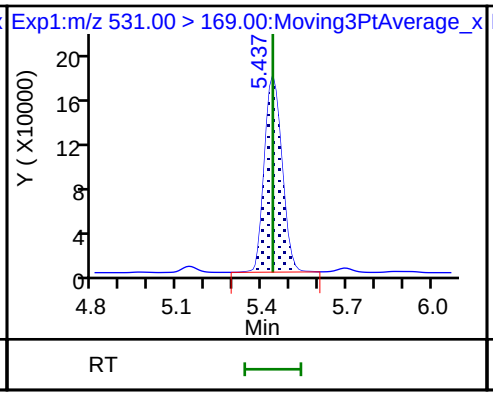
57 Perfluorododecanoic acid



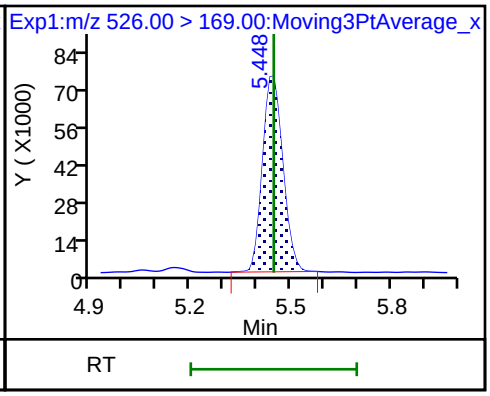
57 Perfluorododecanoic acid



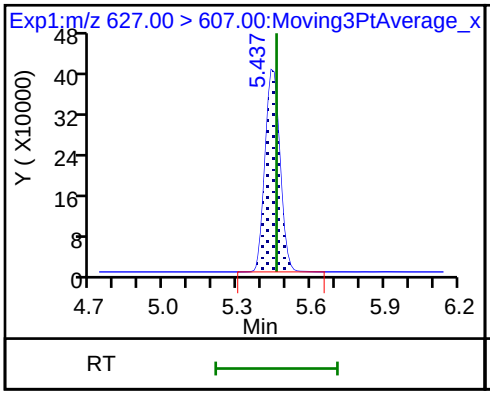
D 54 d-N-EtFOSA-M



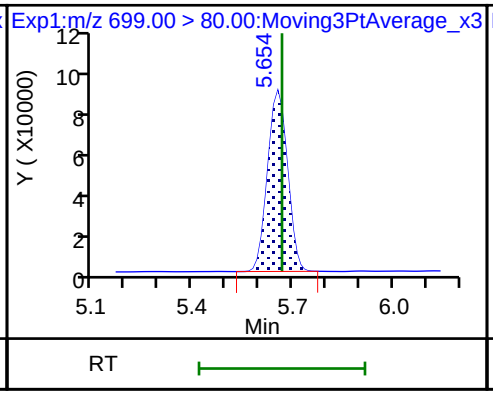
55 N-EtFOSA-M



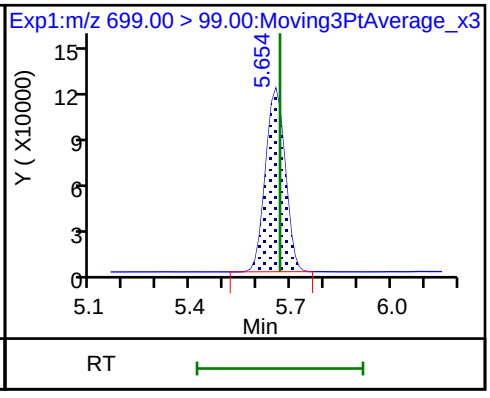
58 10:2 FTS



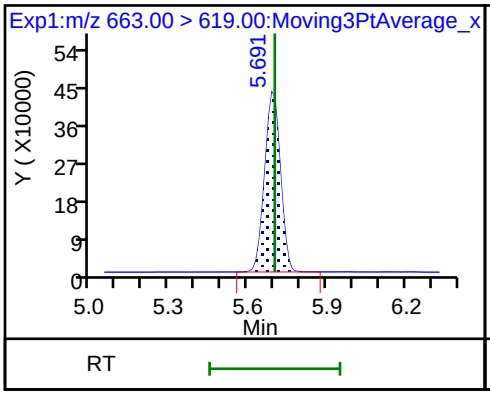
59 PFDoS



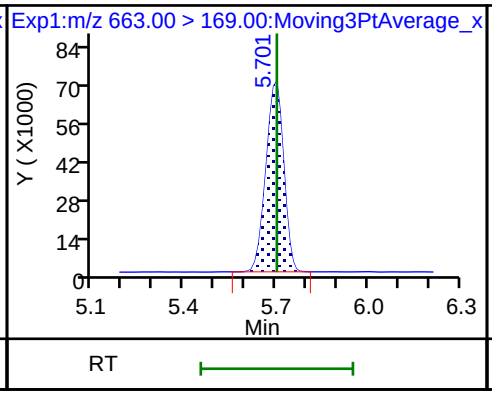
59 PFDoS



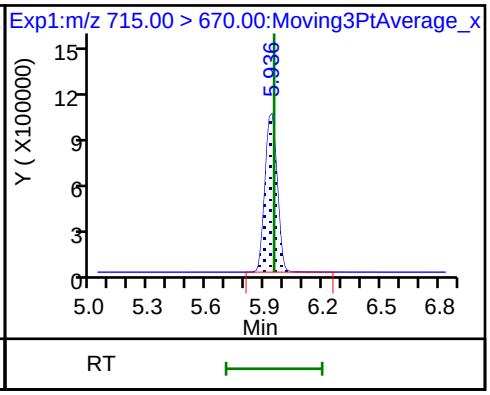
60 Perfluorotridecanoic acid



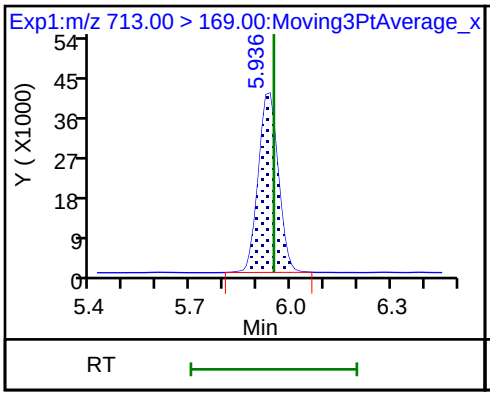
60 Perfluorotridecanoic acid



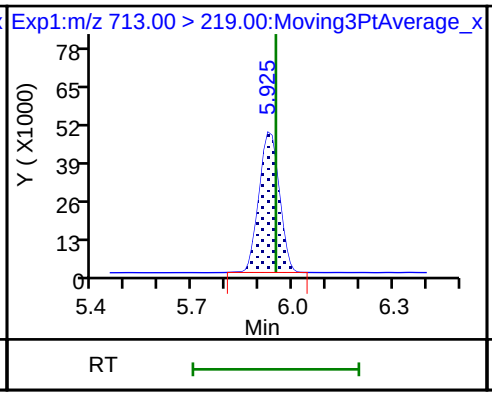
D 61 13C2 PFTeDA



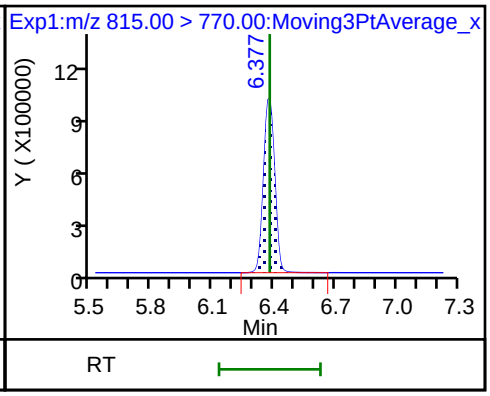
62 Perfluorotetradecanoic acid



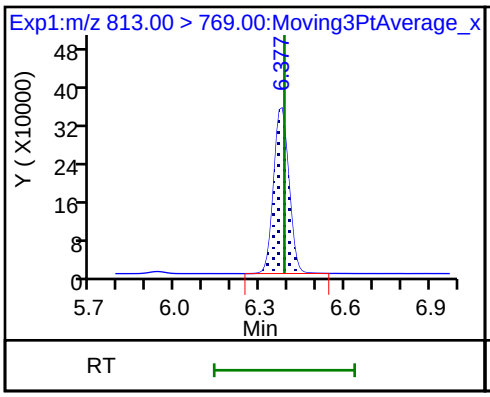
62 Perfluorotetradecanoic acid



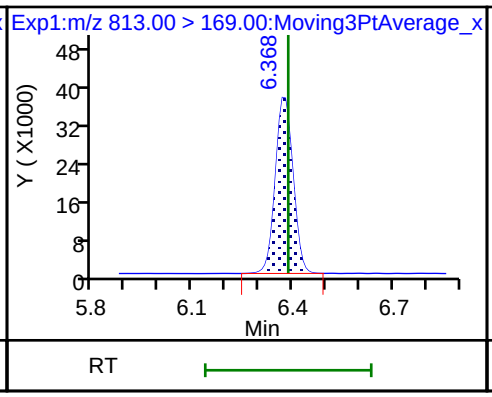
D 64 13C2 PFHxDA



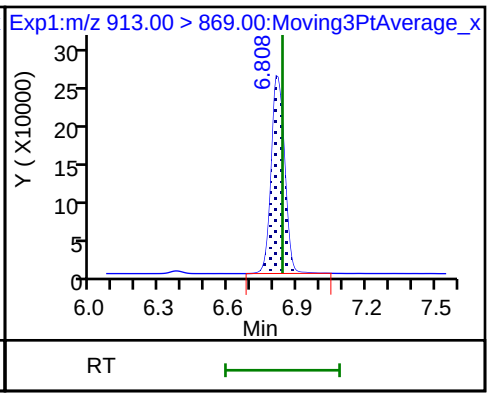
63 Perfluorohexadecanoic acid



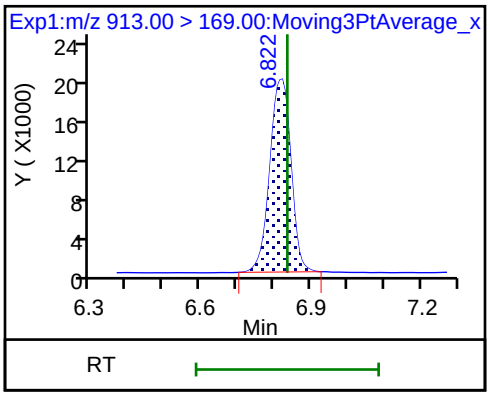
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

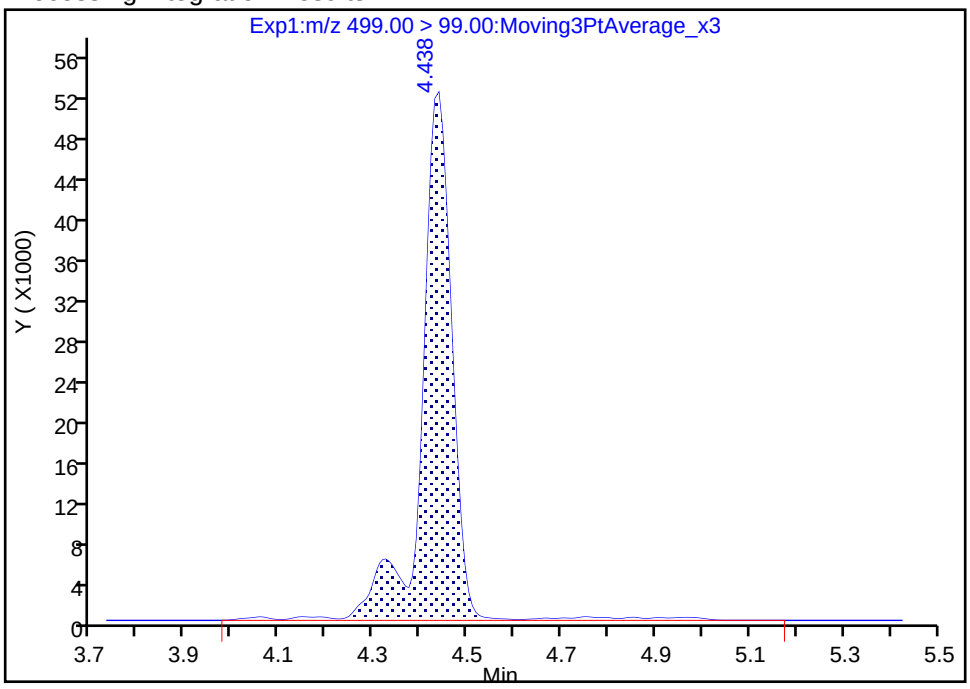
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_075.d
Injection Date: 10-Sep-2020 15:20:29 Instrument ID: A18
Lims ID: LCS 320-410910/2-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 39 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

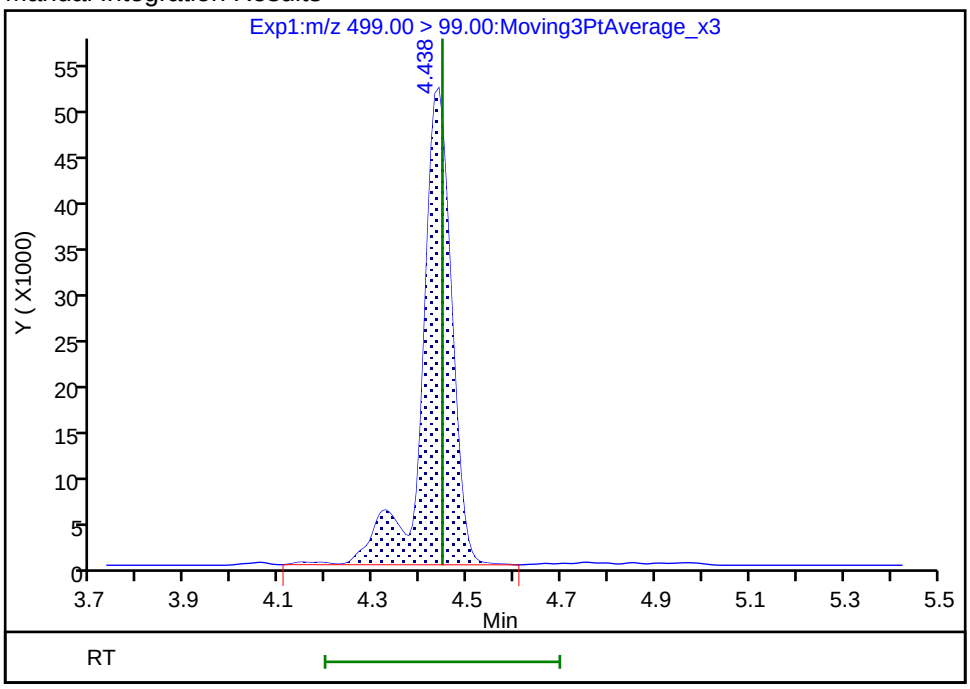
Processing Integration Results

RT: 4.44
Area: 238881
Amount: 0.679353
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 231062
Amount: 0.887574
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:28:25
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

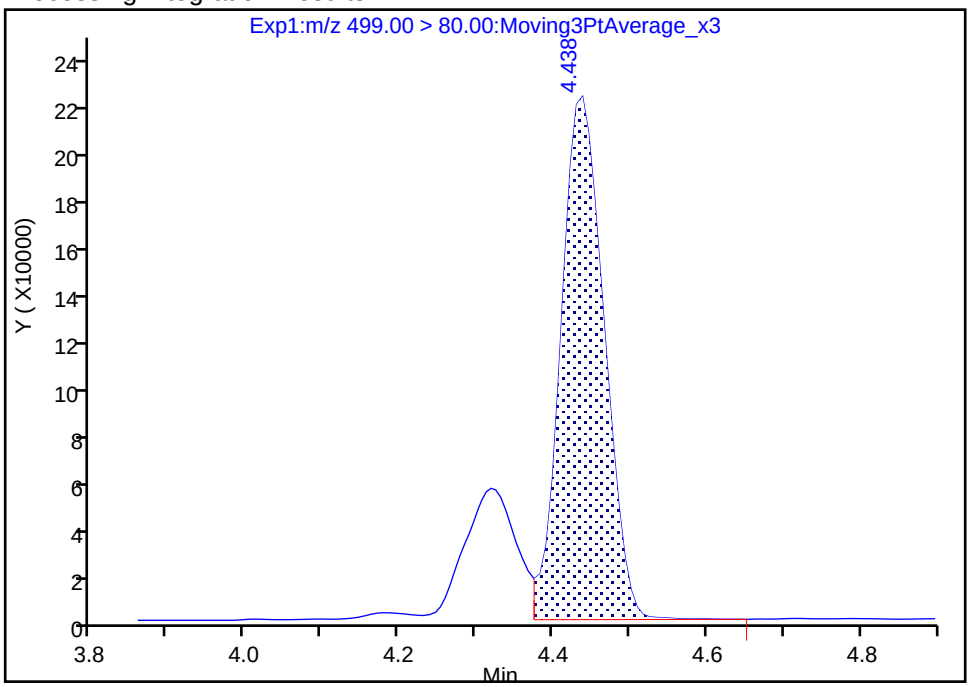
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_075.d
Injection Date: 10-Sep-2020 15:20:29 Instrument ID: A18
Lims ID: LCS 320-410910/2-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 39 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

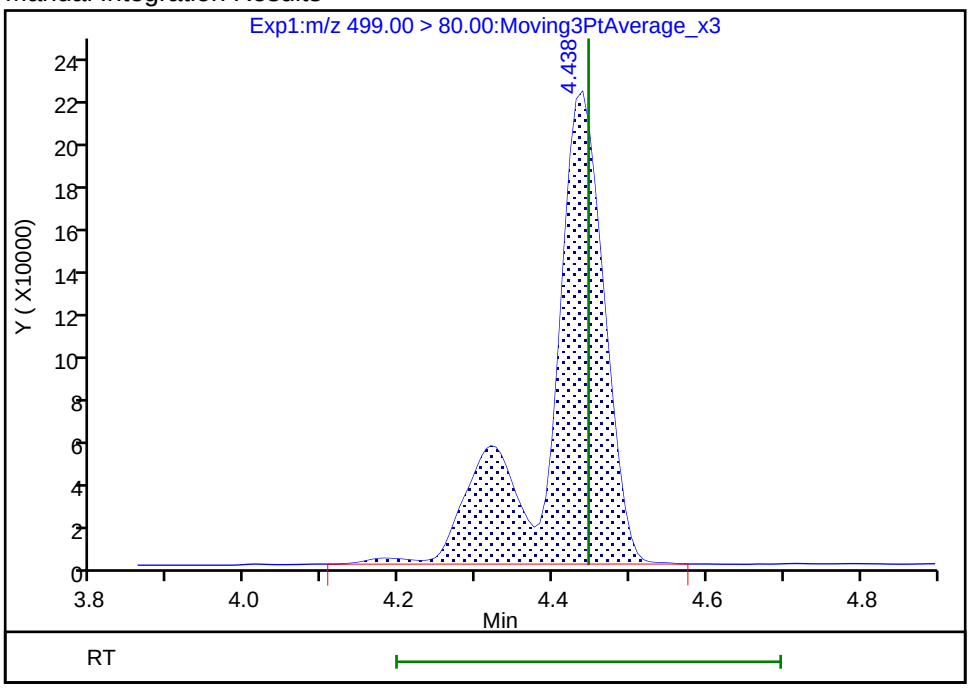
Processing Integration Results

RT: 4.44
Area: 844694
Amount: 0.679353
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 1103591
Amount: 0.887574
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:28:31
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-411226/2-A

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_026.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 250(mL) Date Analyzed: 09/11/2020 13:24

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	43.69		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.79		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	42.56		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	42.66		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	41.65		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	42.80		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	43.22		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	42.76		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	39.08		2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	37.81		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	38.52		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	38.07		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	34.33		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	40.41		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.35		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	38.33		2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	42.22		2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	45.82		20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	41.81		20.0	1.90
27619-97-2	6:2 FTS	37.34		20.0	2.00
39108-34-4	8:2 FTS	39.15		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-411226/2-A

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_026.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 250(mL) Date Analyzed: 09/11/2020 13:24

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90		25-150
STL01893	13C5 PFPeA	94		25-150
STL00993	13C2 PFHxA	90		25-150
STL01892	13C4 PFHpA	96		25-150
STL00990	13C4 PFOA	93		25-150
STL00995	13C5 PFNA	100		25-150
STL00996	13C2 PFDA	99		25-150
STL00997	13C2 PFUnA	100		25-150
STL00998	13C2 PFDoA	95		25-150
STL02116	13C2 PFTeDA	92		25-150
STL02337	13C3 PFBS	96		25-150
STL00994	18O2 PFHxS	98		25-150
STL00991	13C4 PFOS	99		25-150
STL01056	13C8 FOSA	88		25-150
STL02118	d3-NMeFOSAA	76		25-150
STL02117	d5-NEtFOSAA	84		25-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	96		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_026.d
Lims ID: LCS 320-411226/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Sep-2020 13:24:21 ALS Bottle#: 14 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-411226/2-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTRLCMS02 Instrument ID: A9

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 16:02:25 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 16:02:25
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.882	1.893	-0.011	0.564	7299665	2.25		89.9	2705	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.887	1.893	-0.006	1.003	2785815	1.09		109	78.8	
D 4 13C5 PFPeA										
267.90 > 223.00	2.190	2.198	-0.008	0.656	6407325	2.34		93.6	2504	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.190	2.198	-0.008	1.000	2594232	0.99		99.5	104	
D 6 13C3 PFBS										
301.90 > 80.00	2.214	2.223	-0.009	0.663	12114457	2.24		96.3	5446	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.214	2.233	-0.019	1.000	4947145	0.9517	Target=3.28	108	291	
298.90 > 99.00	2.223	2.233	-0.010	1.004	1468658		3.37(1.64-4.92)		224	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.504	2.514	-0.010	1.000	1032914	0.99		106	4271	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.504	2.514	-0.010	0.750	1227814	2.29		97.9	643	
D 10 13C2 PFHxA										
315.00 > 270.00	2.546	2.557	-0.011	0.763	5704182	2.24		89.6	3008	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.546	2.557	-0.011	1.000	2025571	1.06	Target=10.43	106	153	
313.00 > 119.00	2.546	2.557	-0.011	1.000	198499		10.20(5.21-15.64)		126	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.557	2.568	-0.011	1.155	2153143	1.03	Target=2.07	110	621	
349.00 > 99.00	2.557	2.568	-0.011	1.155	1004327		2.14(1.04-3.11)		590	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.660	2.673	-0.013	0.797	3888511	2.23		89.0	3089	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.660	2.673	-0.013	1.000	652663	1.06		106	2066	
D 15 13C4 PFHpA										
367.00 > 322.00	2.934	2.940	-0.006	0.879	5927676	2.39		95.7	4082	
D 17 18O2 PFHxS										
403.00 > 84.00	2.940	2.946	-0.006	0.881	5983510	2.31		97.8	4857	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.940	2.946	-0.006	1.000	2561356	0.8583	Target=3.49	94.3	644	
399.00 > 99.00	2.940	2.946	-0.006	1.000	787809		3.25(1.75-5.24)		417	M
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.934	2.946	-0.012	1.000	2804811	1.07	Target=3.74	107	324	
363.00 > 169.00	2.934	2.946	-0.012	1.000	714703		3.92(1.87-5.61)		664	
19 DONA										
377.00 > 251.00	2.980	2.993	-0.013	0.801	4659521	0.9579	Target=1.88	102	3536	
377.00 > 85.00	2.980	2.993	-0.013	0.801	2543387		1.83(0.94-2.82)		2377	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.324	3.324	0.0	0.996	1107121	2.39		101	970	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.324	3.331	-0.007	1.000	670798	0.9334		98.5	586	
D 26 13C4 PFOA										
417.00 > 372.00	3.338	3.345	-0.007	1.000	5413100	2.33		93.2	3446	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.338	3.345	-0.007	1.000	2431693	1.04	Target=2.44	104	330	
413.00 > 169.00	3.338	3.345	-0.007	1.000	982063		2.48(1.22-3.66)		902	
* 25 13C2 PFOA										
415.00 > 370.00	3.338	3.345	-0.007		6014667	2.50			5815	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.338	3.345	-0.007	0.897	2505586	1.01	Target=3.67	106	871	
449.00 > 99.00	3.338	3.345	-0.007	0.897	708503		3.54(1.84-5.51)		1269	
D 31 13C4 PFOS										
503.00 > 80.00	3.720	3.720	0.0	1.114	6411677	2.37		99.3	1898	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.720	3.727	-0.007	1.000	2674156	0.9588	Target=4.47	103	287	
499.00 > 99.00	3.720	3.727	-0.007	1.000	623118		4.29(2.24-6.71)		958	M
D 29 13C5 PFNA										
468.00 > 423.00	3.727	3.735	-0.008	1.117	5034826	2.50		99.9	6636	
30 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.735	0.0	1.002	2145277	1.07	Target=4.27	107	876	
463.00 > 169.00	3.735	3.735	0.0	1.002	489552		4.38(2.13-6.40)		834	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.918	3.928	-0.010	1.053	1588922	0.9440		101	3328	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.065	4.074	-0.009	1.093	1989582	0.9770	Target=5.58	102	1163	
549.00 > 99.00	4.065	4.074	-0.009	1.093	325960		6.10(2.79-8.37)		1439	
D 36 13C8 FOSA										
506.00 > 78.00	4.065	4.074	-0.009	1.218	2798523	2.20		88.1	2843	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.074	0.0	1.002	3286940	1.06		106	2643	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 33 13C2 PFDA										
515.00 > 470.00	4.092	4.100	-0.008	1.226	6341989	2.48		99.2	6118	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.100	-0.008	1.000	2735858	1.08	Target=14.43	108	991	
513.00 > 169.00	4.092	4.100	-0.008	1.000	194168		14.09(7.21-21.64)		332	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.100	-0.008	1.000	684985	0.9786		102	2063	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.092	4.100	-0.008	1.226	1301074	2.29		95.8	792	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.262	4.262	0.0	1.277	2421139	1.90		76.2	1821	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.262	4.271	-0.009	1.000	842362	1.15		115	164	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.392	4.392	0.0	1.181	2183333	0.9584	Target=4.40	99.4	726	
599.00 > 99.00	4.392	4.392	0.0	1.181	489073		4.46(2.20-6.59)		1414	
D 46 13C2 PFUnA										
565.00 > 520.00	4.418	4.418	0.0	1.324	4947905	2.51		100	8633	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.418	4.418	0.0	1.000	1473052	1.07	Target=6.35	107	1308	
563.00 > 169.00	4.418	4.418	0.0	1.000	210979		6.98(3.17-9.52)		413	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.418	4.426	-0.008	1.324	1779384	2.09		83.5	2251	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.427	4.435	-0.008	1.002	603543	1.05		105	1265	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.538	4.538	0.0	1.359	1490490	3.64		29.2	1267	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.546	4.546	0.0	1.002	127796	1.03		103	171	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.555	4.555	0.0	1.365	1008870	1.76		70.5	174	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.546	4.555	-0.009	1.222	2081898	1.05		111	5692	
50 NMeFOSA										
512.00 > 169.00	4.564	4.564	0.0	1.002	443168	1.05		105	719	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.713	4.713	0.0	1.412	1257659	2.93		23.4	996	
D 56 13C2 PFDoA										
615.00 > 570.00	4.704	4.713	-0.009	1.409	4615965	2.38		95.3	6668	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.704	4.713	-0.009	1.000	1658876	0.9769	Target=7.23	97.7	1325	
613.00 > 169.00	4.704	4.713	-0.009	1.000	239499		6.93(3.61-10.84)		787	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.723	4.722	0.001	1.002	103515	1.04		104	140	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.723	4.731	-0.008	1.154	441588	0.9896		103	3344	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.732	4.731	0.001		770379	1.30		51.9	509	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.741	4.740	0.001	1.002	323000	1.05		105	389	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.935	4.944	-0.009	1.327	298736	0.8778	Target=0.98	90.7	511	
699.00 > 99.00	4.935	4.944	-0.009	1.327	298500		1.00(0.49-1.47)		1277	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.969	4.977	-0.008	1.056	1268235	0.9452	Target=5.11	94.5	2526	
663.00 > 169.00	4.969	4.977	-0.008	1.056	270333		4.69(2.56-7.67)		1248	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.211	5.219	-0.008	1.561	3113524	2.30		92.2	8599	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.211	5.219	-0.008	1.000	211566	0.9629	Target=1.26	96.3	1128	
713.00 > 219.00	5.203	5.219	-0.016	0.998	160297		1.32(0.63-1.89)		1196	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.643	5.652	-0.009	1.000	870473	1.02	Target=4.58	102	2095	
813.00 > 169.00	5.643	5.652	-0.009	1.000	190713		4.56(2.29-6.88)		1180	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.643	5.652	-0.009	1.691	2291630	2.29		91.8	5797	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.047	6.063	-0.016	1.072	779600	1.14	Target=4.25	114	1412	
913.00 > 169.00	6.047	6.063	-0.016	1.072	186361		4.18(2.12-6.37)		1063	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 16:02:25 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_026.d

Injection Date: 11-Sep-2020 13:24:21 Instrument ID: A9

Lims ID: LCS 320-411226/2-A

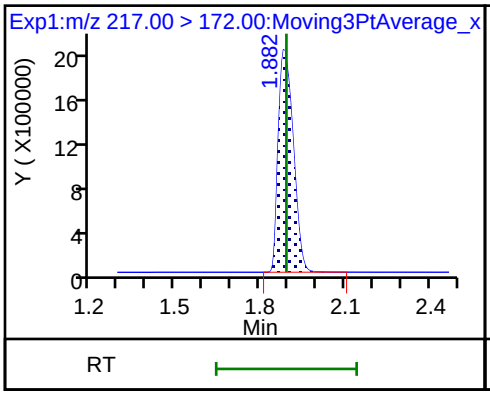
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 14 Worklist Smp#: 3

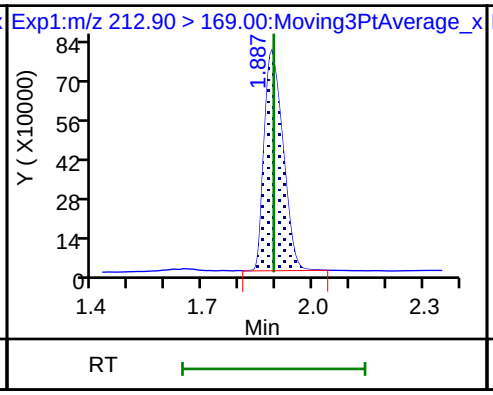
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

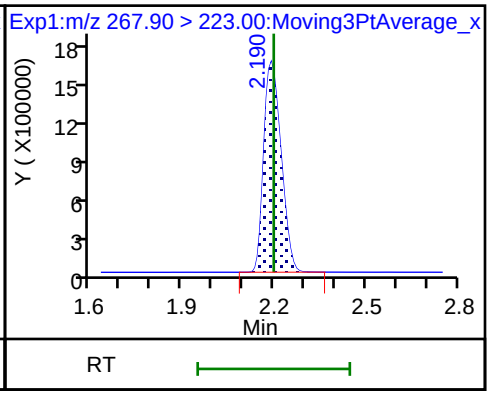
D 1 13C4 PFBA



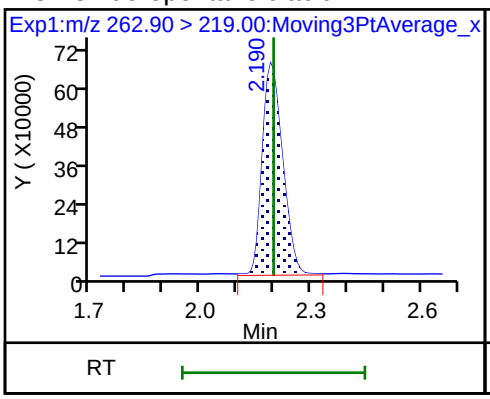
2 Perfluorobutanoic acid



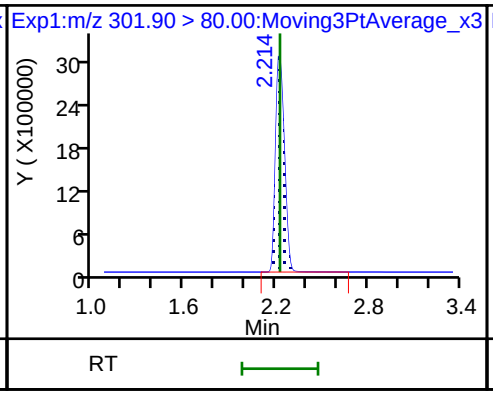
D 4 13C5 PFPeA



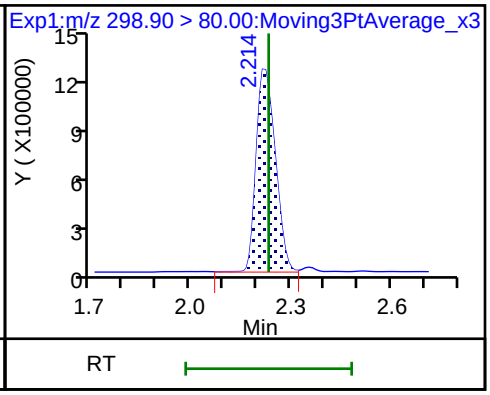
3 Perfluoropentanoic acid



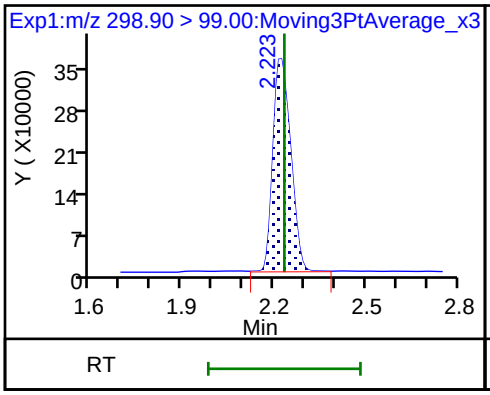
D 6 13C3 PFBS



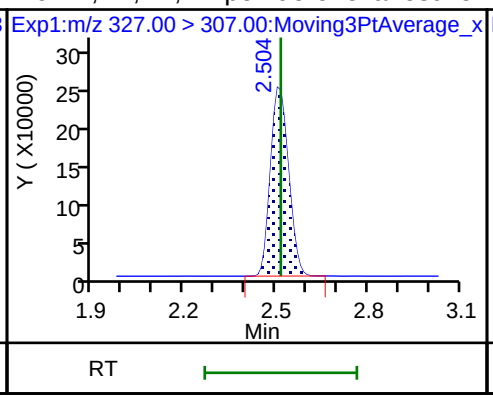
5 Perfluorobutanesulfonic acid



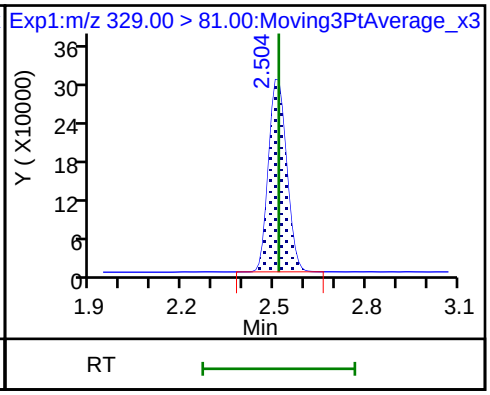
5 Perfluorobutanesulfonic acid



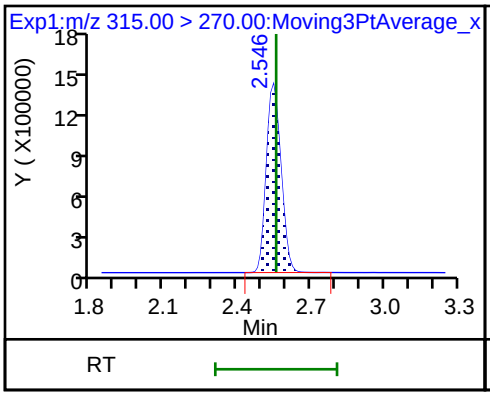
9 1H,1H,2H,2H-perfluorohexanesulfo



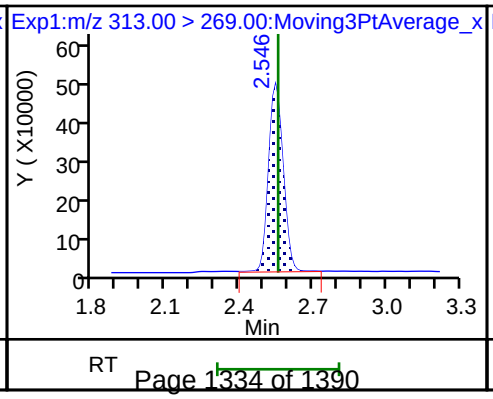
D 8 M2-4:2 FTS



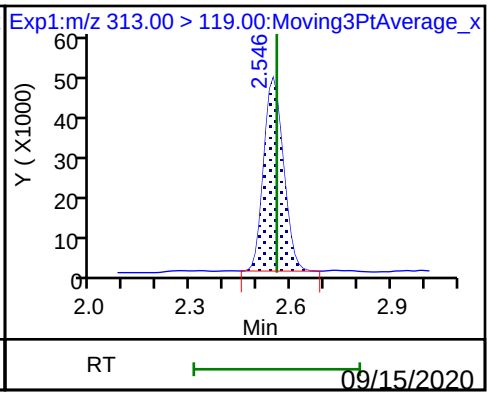
D 10 13C2 PFHxA



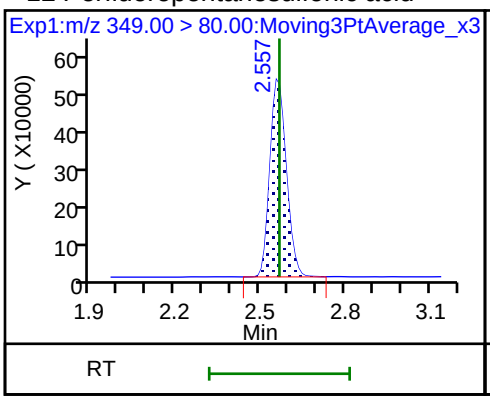
11 Perfluorohexanoic acid



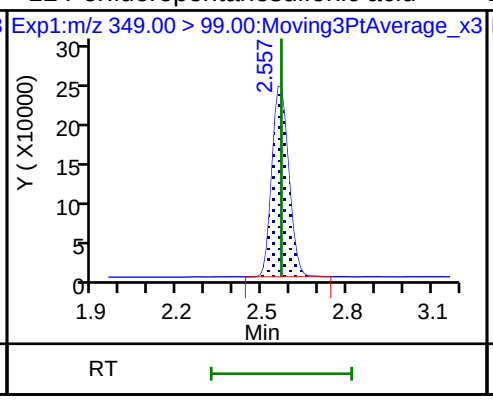
11 Perfluorohexanoic acid



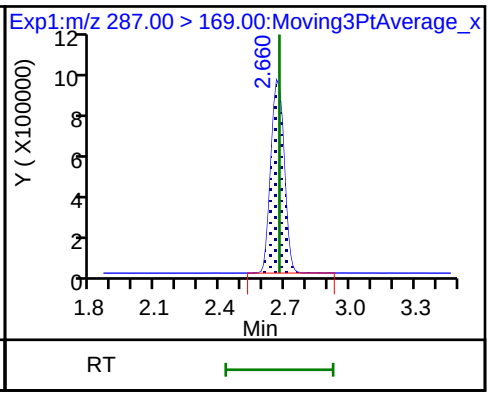
12 Perfluoropentanesulfonic acid



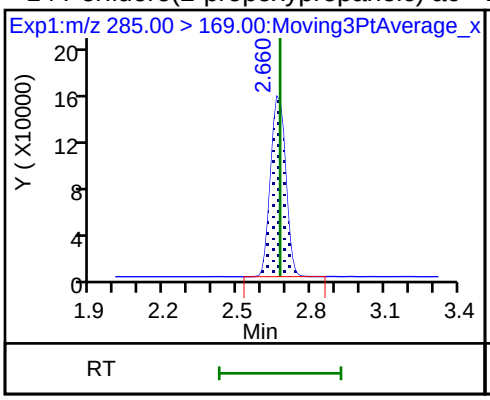
12 Perfluoropentanesulfonic acid



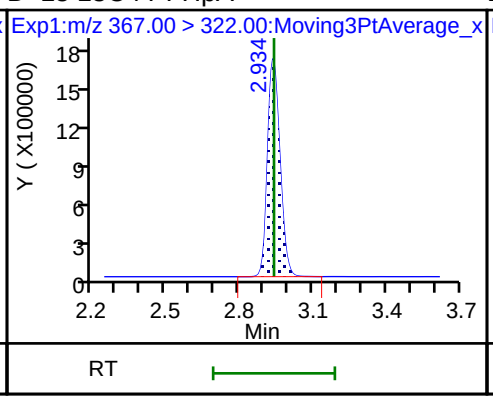
D 13 13C3 HFPO-DA



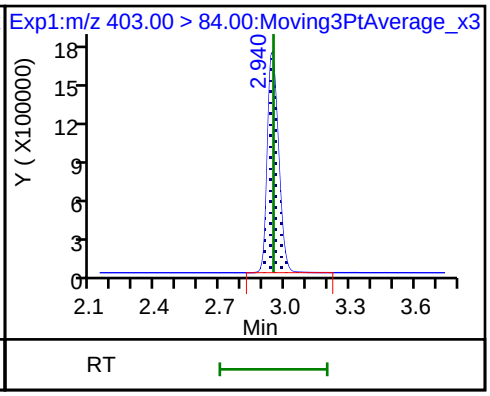
14 Perfluoro(2-propoxypropanoic) ac



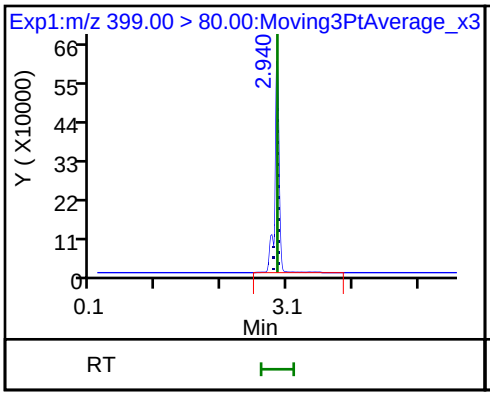
D 15 13C4 PFHpA



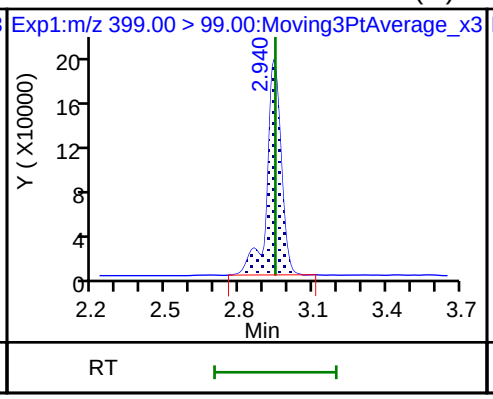
D 17 18O2 PFHxS



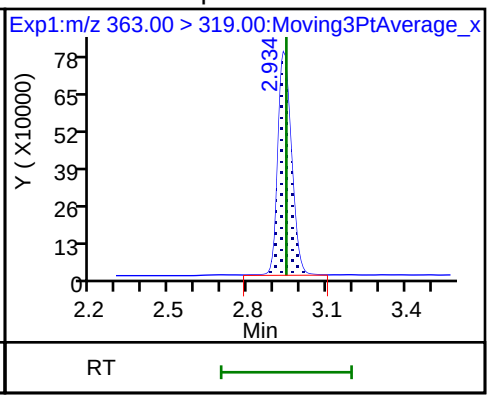
16 Perfluorohexanesulfonic acid



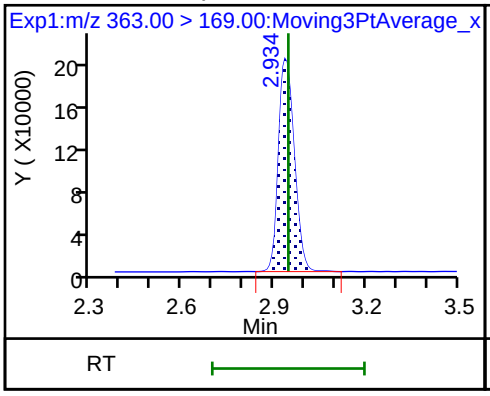
16 Perfluorohexanesulfonic acid (M)



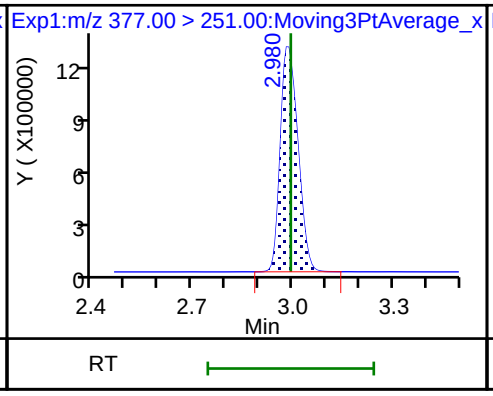
18 Perfluoroheptanoic acid



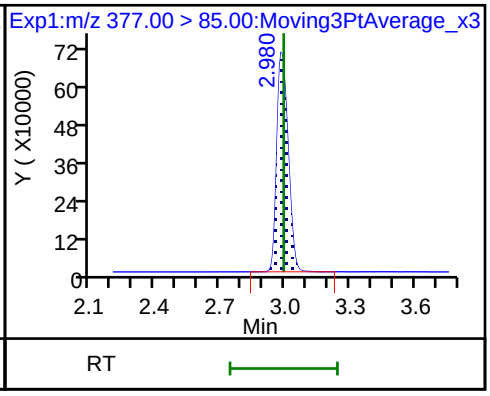
18 Perfluoroheptanoic acid



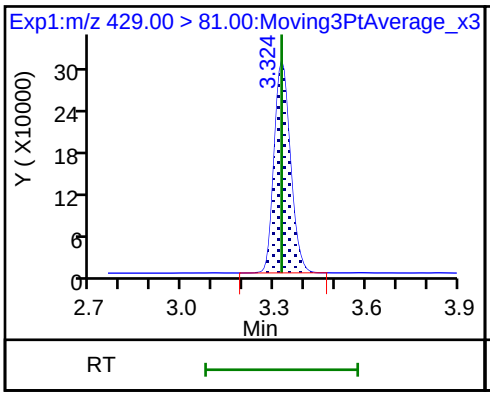
19 DONA



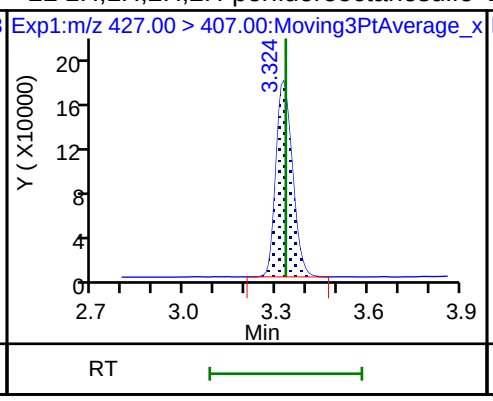
19 DONA



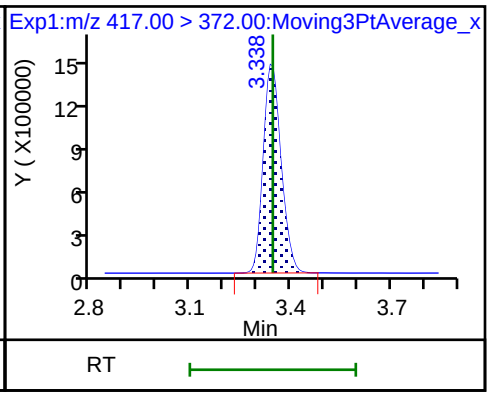
D 20 M2-6:2 FTS



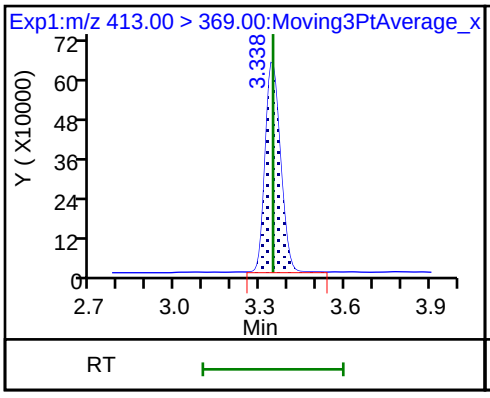
22 1H,1H,2H,2H-perfluorooctanesulfo



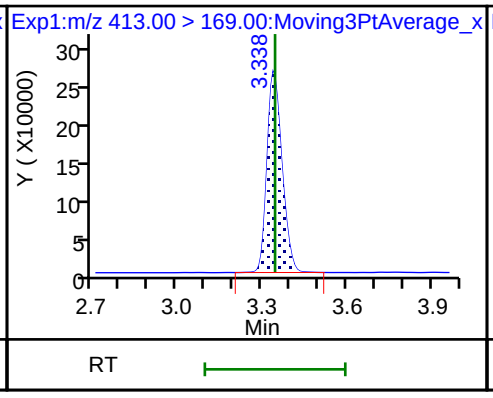
D 26 13C4 PFOA



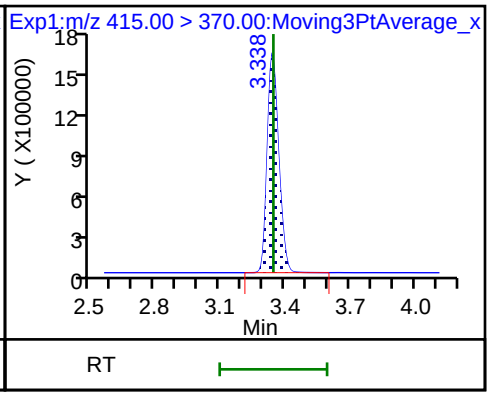
24 Perfluorooctanoic acid



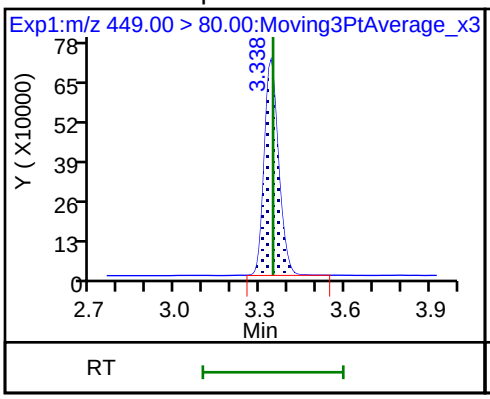
24 Perfluorooctanoic acid



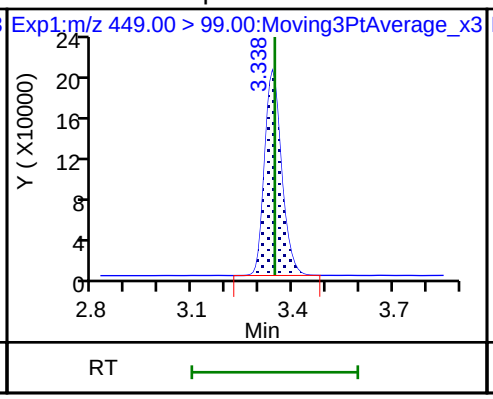
* 25 13C2 PFOA



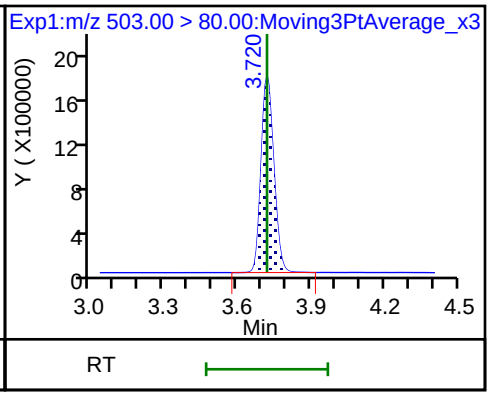
23 Perfluoroheptanesulfonic acid



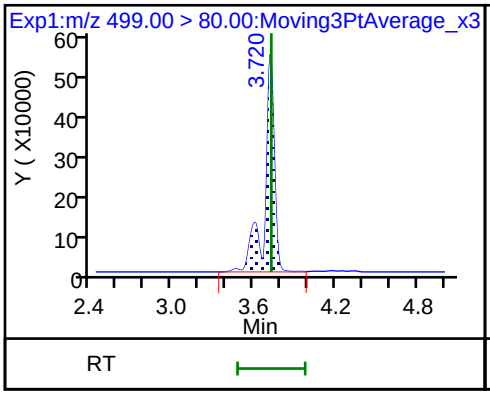
23 Perfluoroheptanesulfonic acid



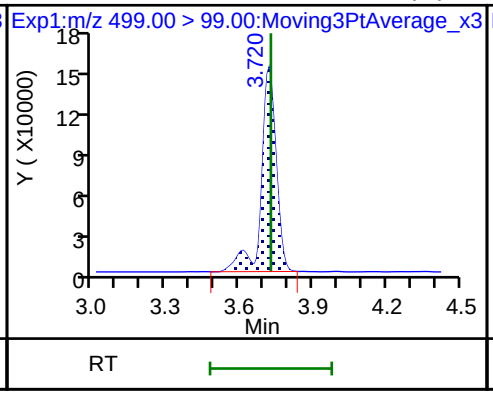
D 31 13C4 PFOS



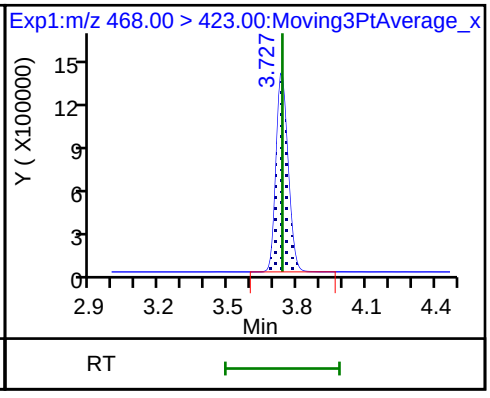
28 Perfluorooctanesulfonic acid



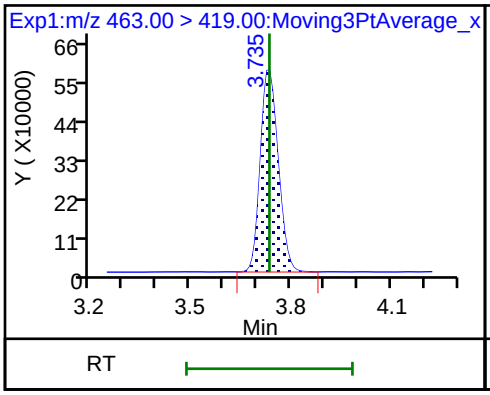
28 Perfluorooctanesulfonic acid (M)



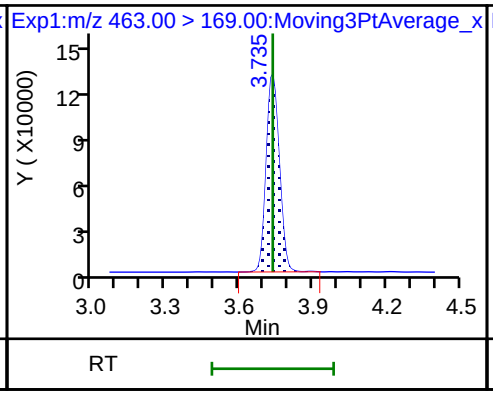
D 29 13C5 PFNA



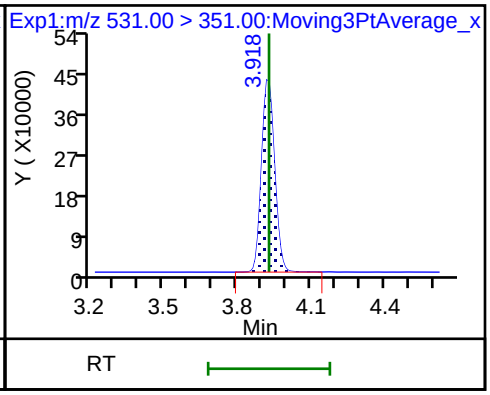
30 Perfluorononanoic acid



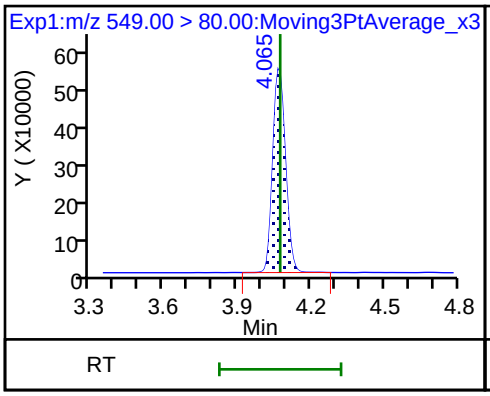
30 Perfluorononanoic acid



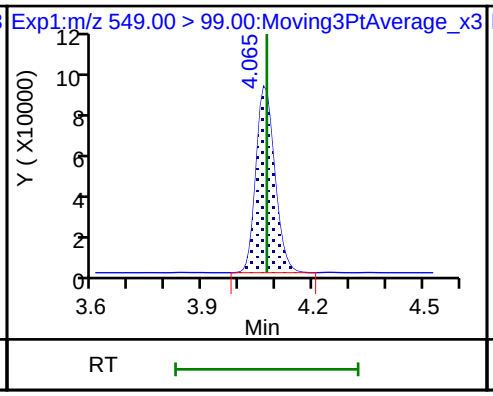
32 9-Chlorohexadecafluoro-3-oxanona



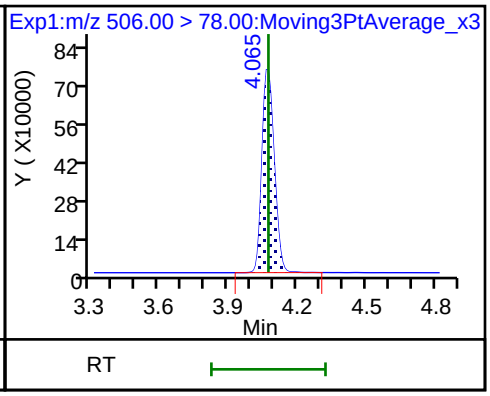
35 Perfluorononanesulfonic acid



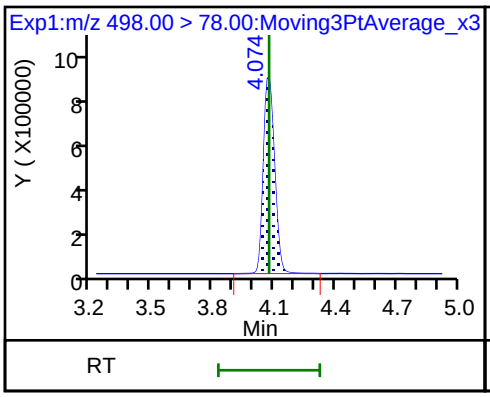
35 Perfluorononanesulfonic acid



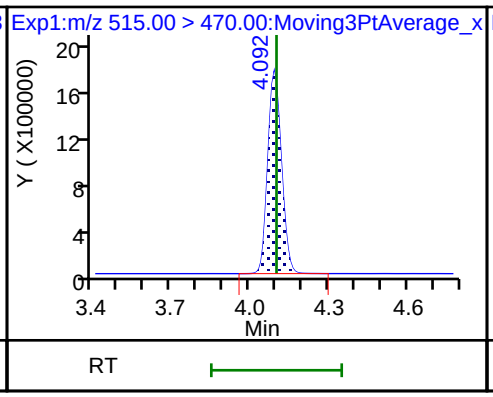
D 36 13C8 FOSA



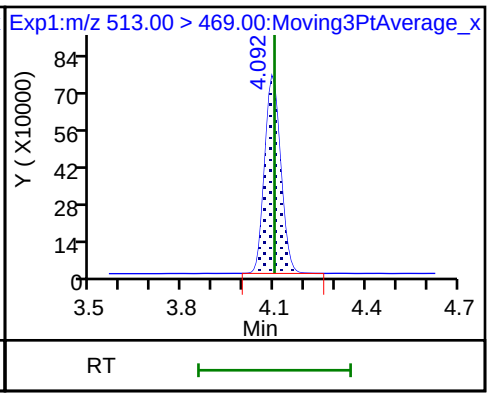
34 Perfluorooctanesulfonamide



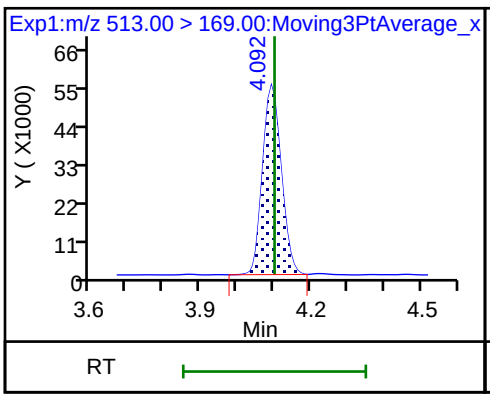
D 33 13C2 PFDA



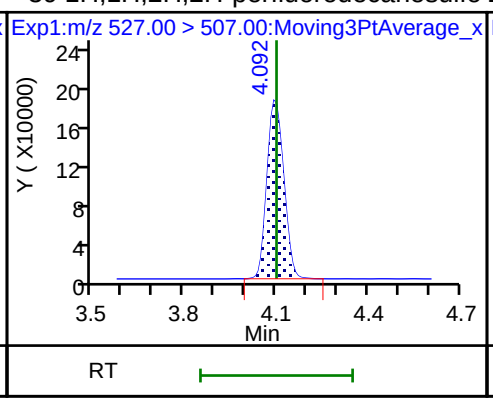
38 Perfluorodecanoic acid



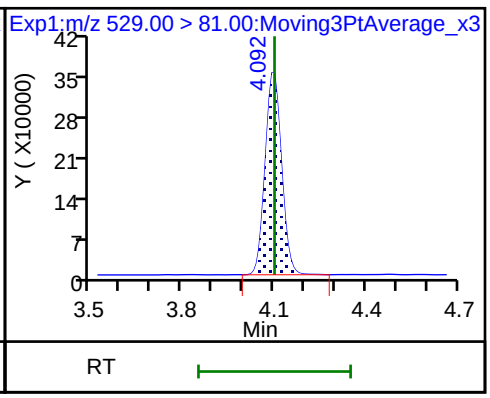
38 Perfluorodecanoic acid



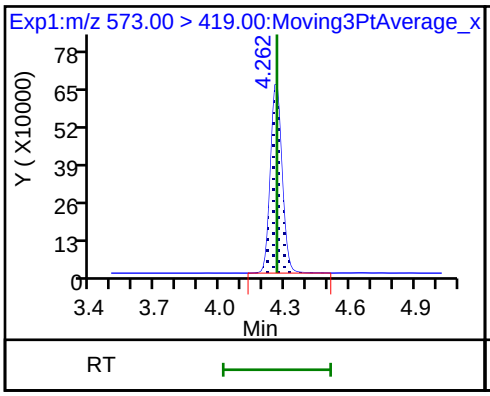
39 1H,1H,2H,2H-perfluorodecanesulfo



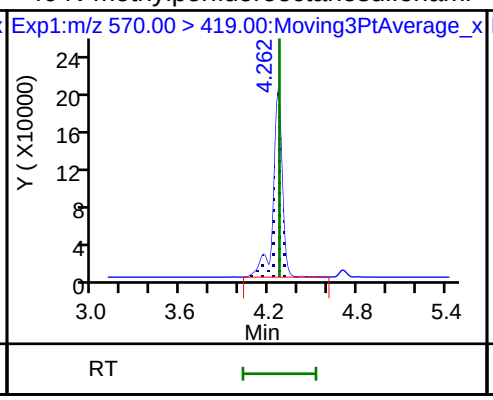
D 37 M2-8:2 FTS



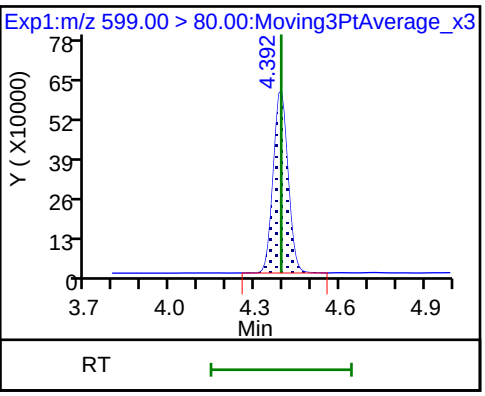
D 41 d3-NMeFOSAA



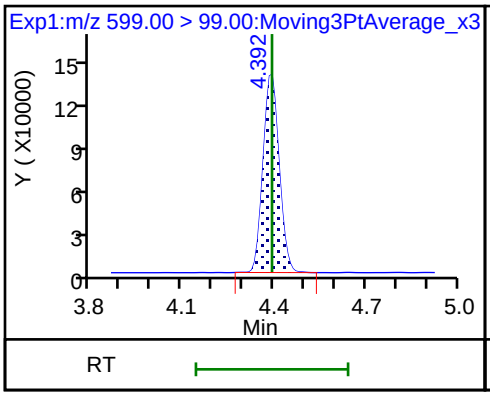
40 N-methylperfluorooctanesulfonami



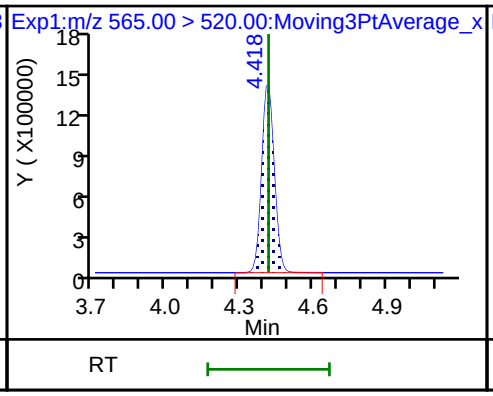
42 Perfluorodecanesulfonic acid



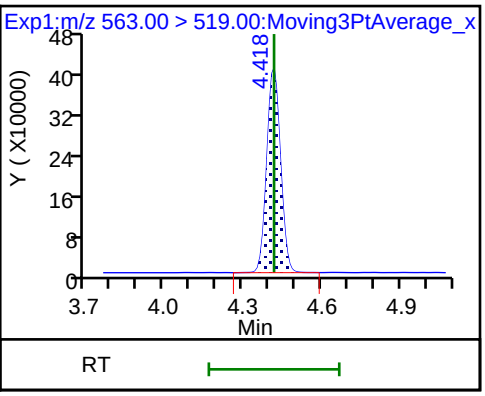
42 Perfluorodecanesulfonic acid



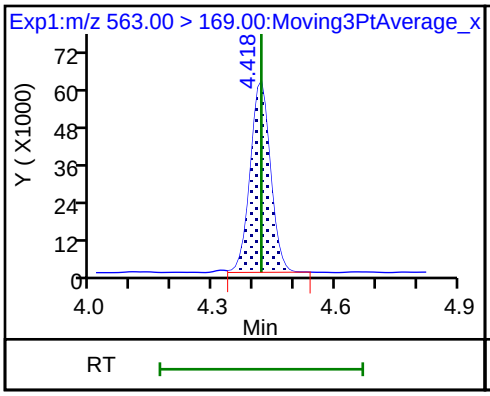
D 46 13C2 PFUnA



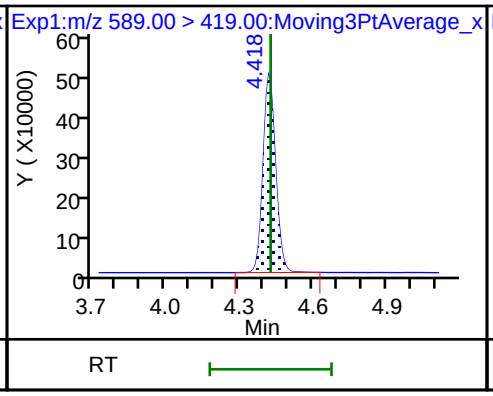
43 Perfluoroundecanoic acid



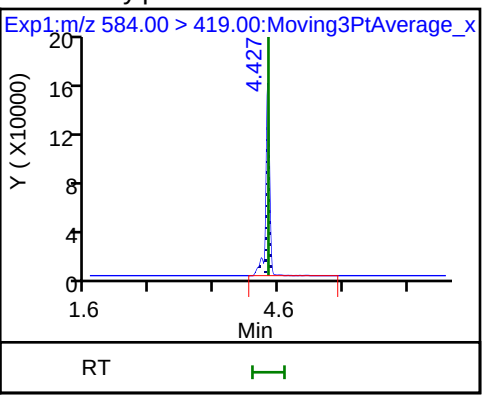
43 Perfluoroundecanoic acid



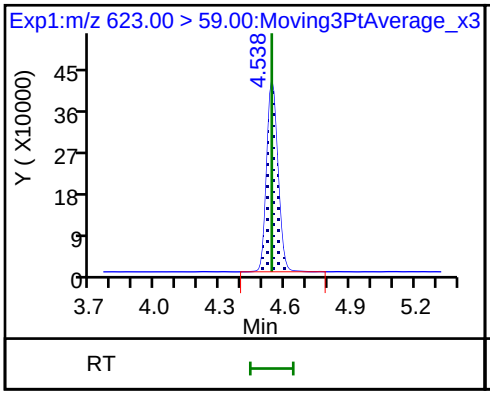
D 45 d5-NEtFOSAA



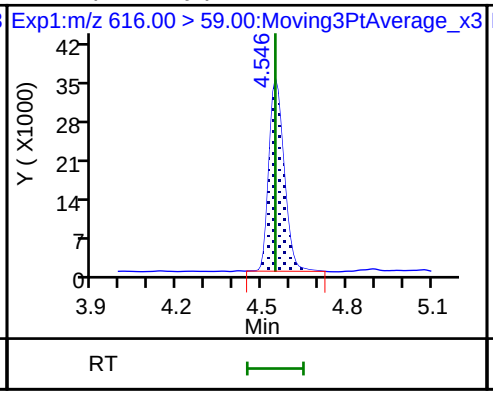
44 N-ethylperfluorooctanesulfonamid



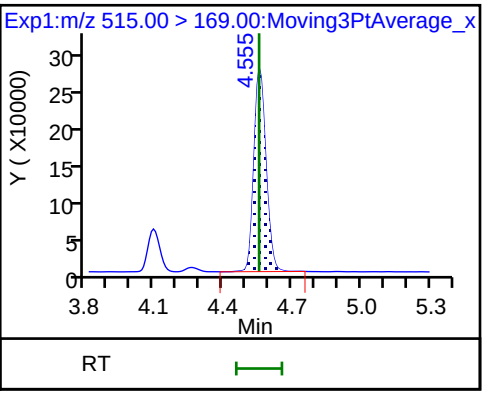
D 47 d7-N-MeFOSE-M



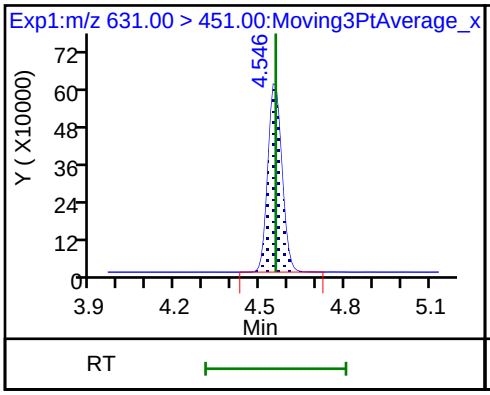
48 2-(N-methylperfluoro-1-octanesul



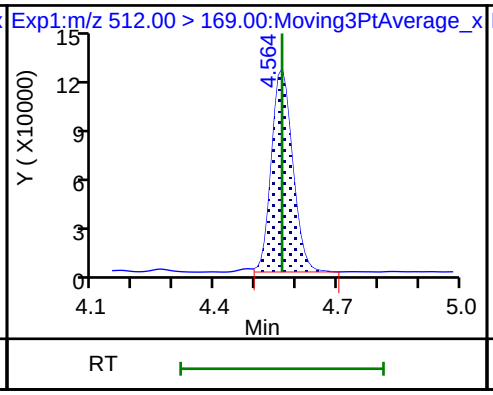
D 49 d-N-MeFOSA-M



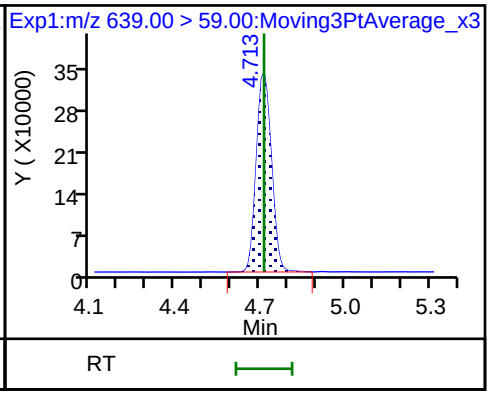
51 11-Chloroeicosafluoro-3-oxaundec



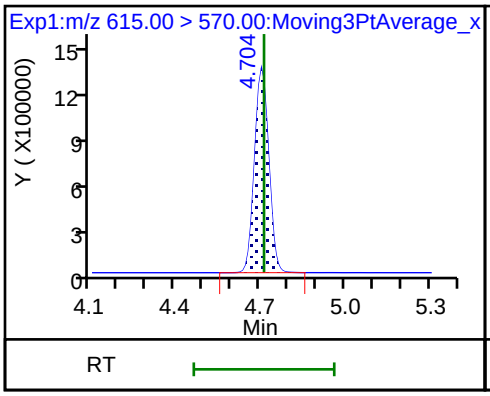
50 NMeFOSA



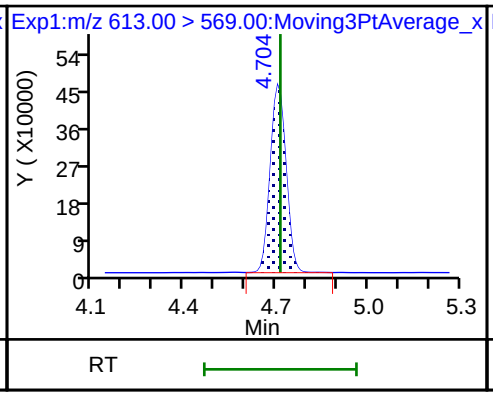
D 53 d9-N-EtFOSE-M



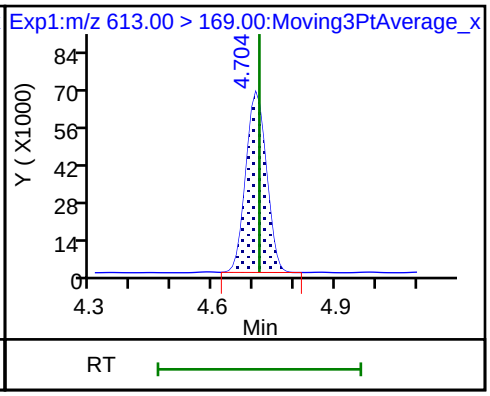
D 56 13C2 PFDoA



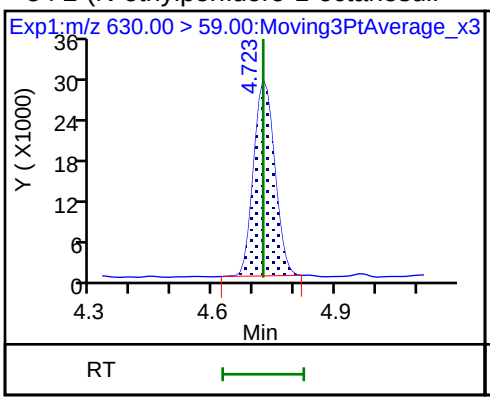
52 Perfluorododecanoic acid



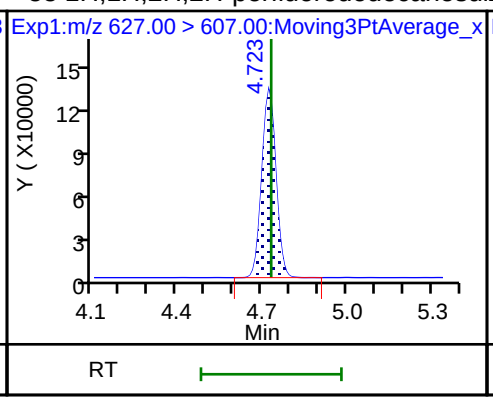
52 Perfluorododecanoic acid



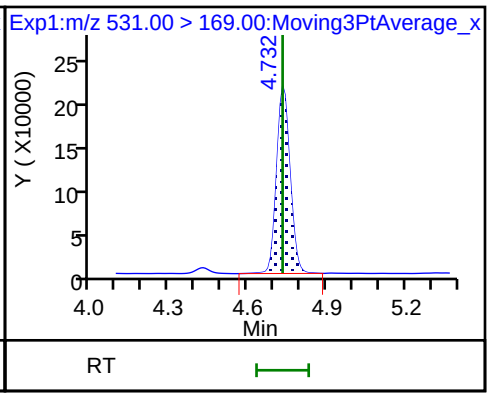
54 2-(N-ethylperfluoro-1-octanesulf



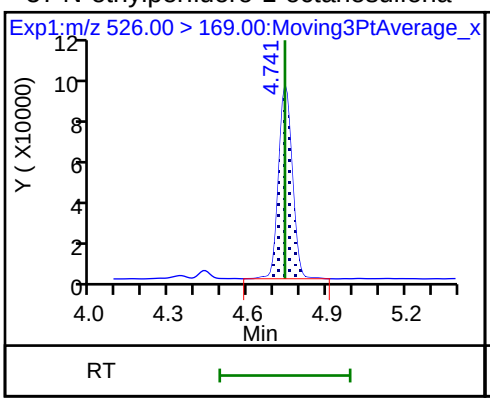
55 1H,1H,2H,2H-perfluorododecanesul



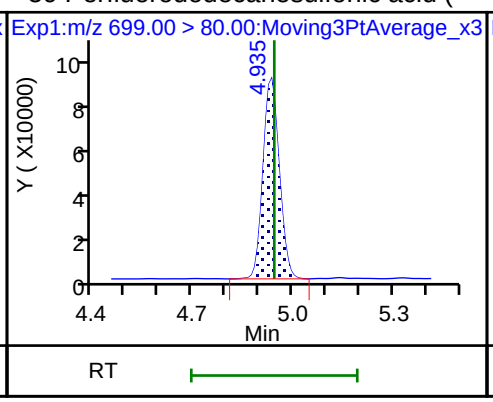
D 58 d-N-EtFOSA-M



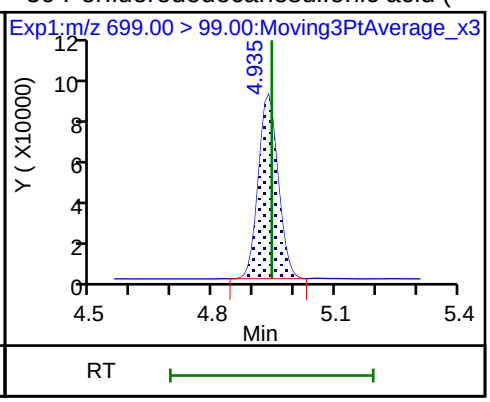
57 N-ethylperfluoro-1-octanesulfona



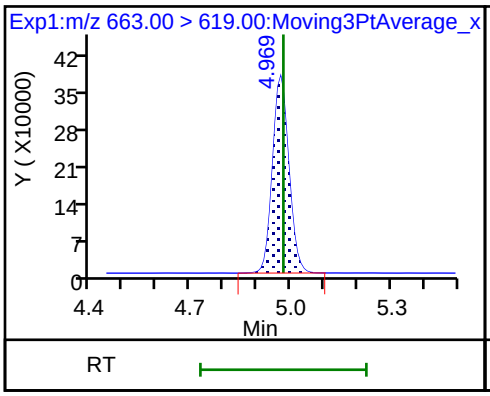
59 Perfluorododecanesulfonic acid (



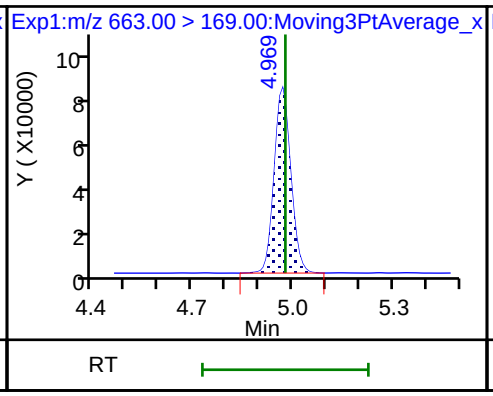
59 Perfluorododecanesulfonic acid (



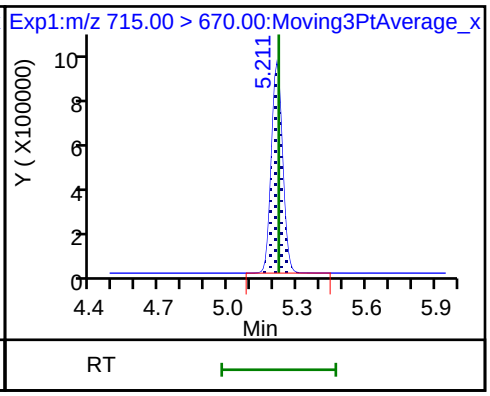
60 Perfluorotridecanoic acid



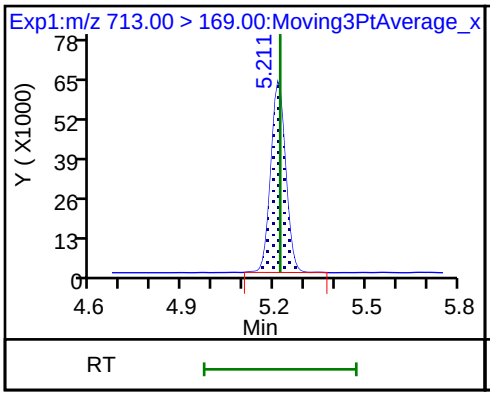
60 Perfluorotridecanoic acid



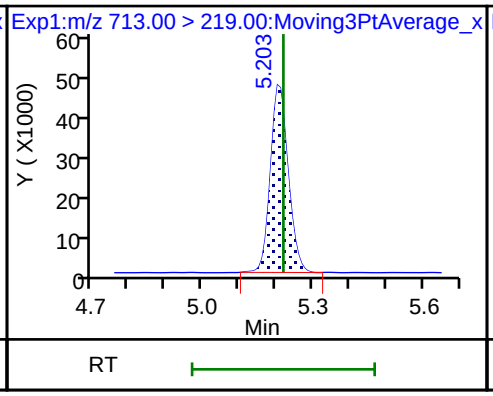
D 62 13C2 PFTeDA



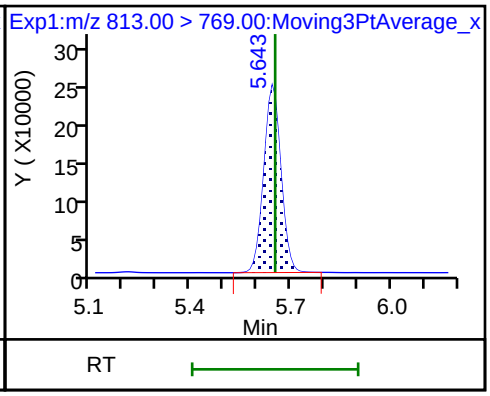
61 Perfluorotetradecanoic acid



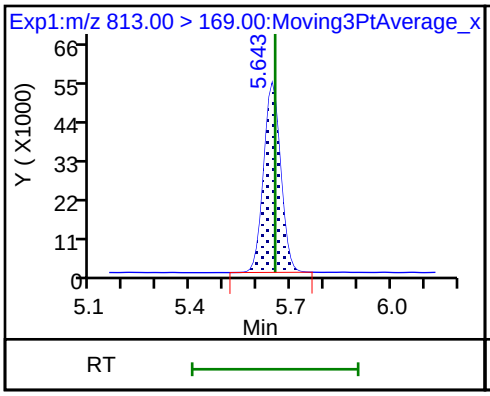
61 Perfluorotetradecanoic acid



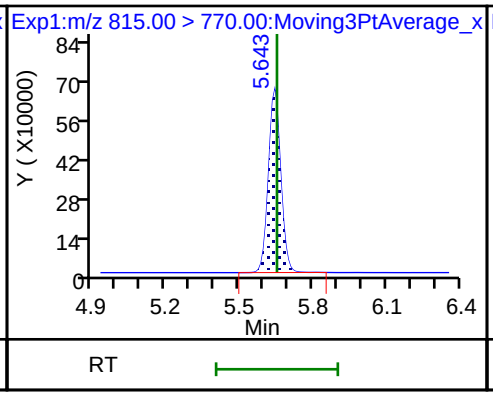
64 Perfluorohexadecanoic acid



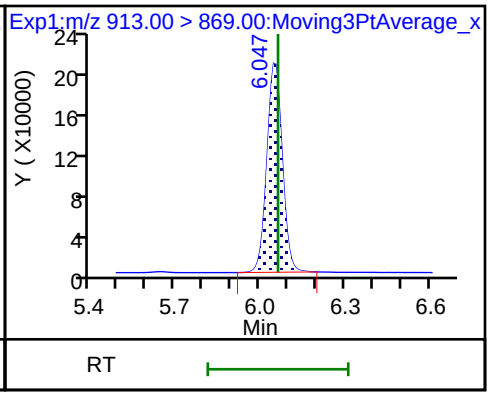
64 Perfluorohexadecanoic acid



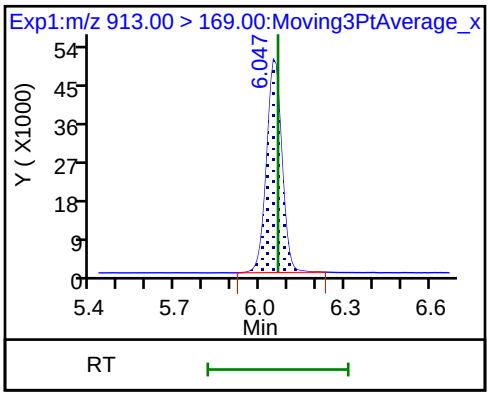
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

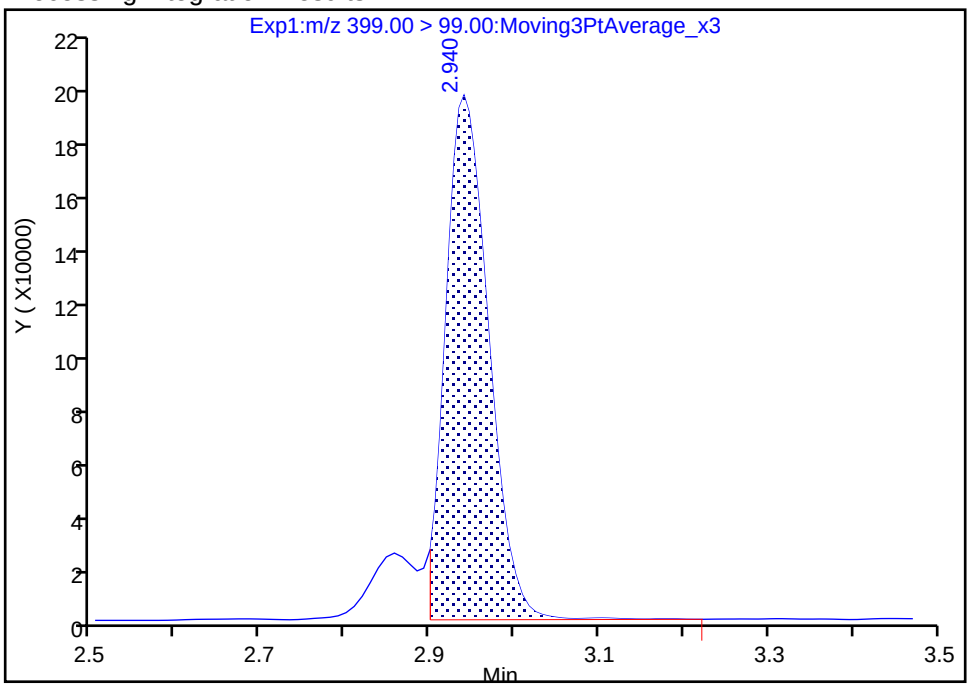
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_026.d				
Injection Date:	11-Sep-2020 13:24:21	Instrument ID:	A9		
Lims ID:	LCS 320-411226/2-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	14	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

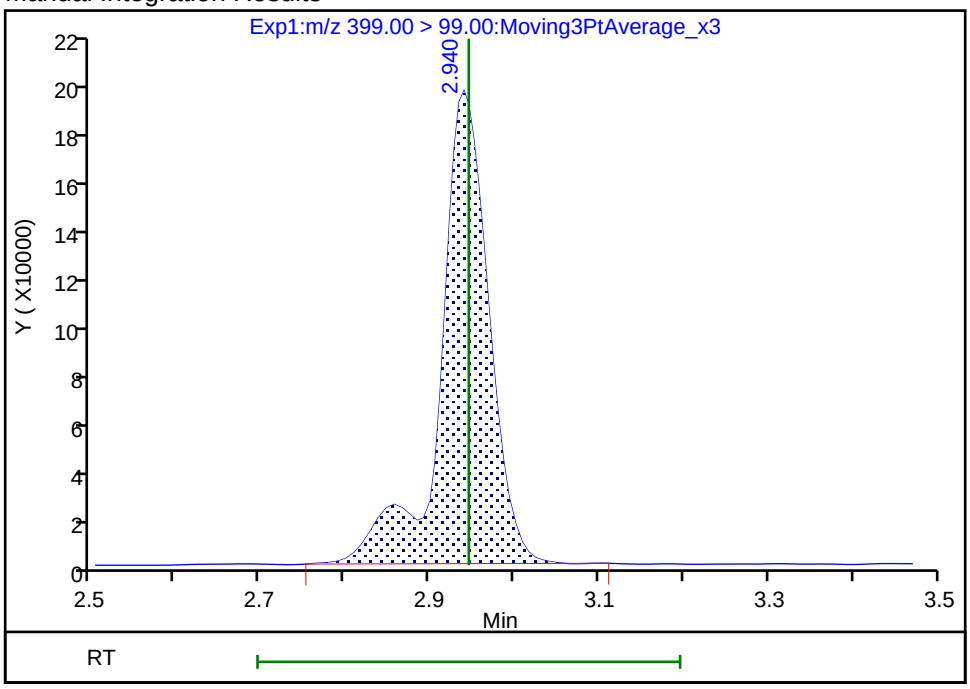
Processing Integration Results

RT: 2.94
Area: 691785
Amount: 0.858286
Amount Units: ng/ml



Manual Integration Results

RT: 2.94
Area: 787809
Amount: 0.858286
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 15:58:23
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

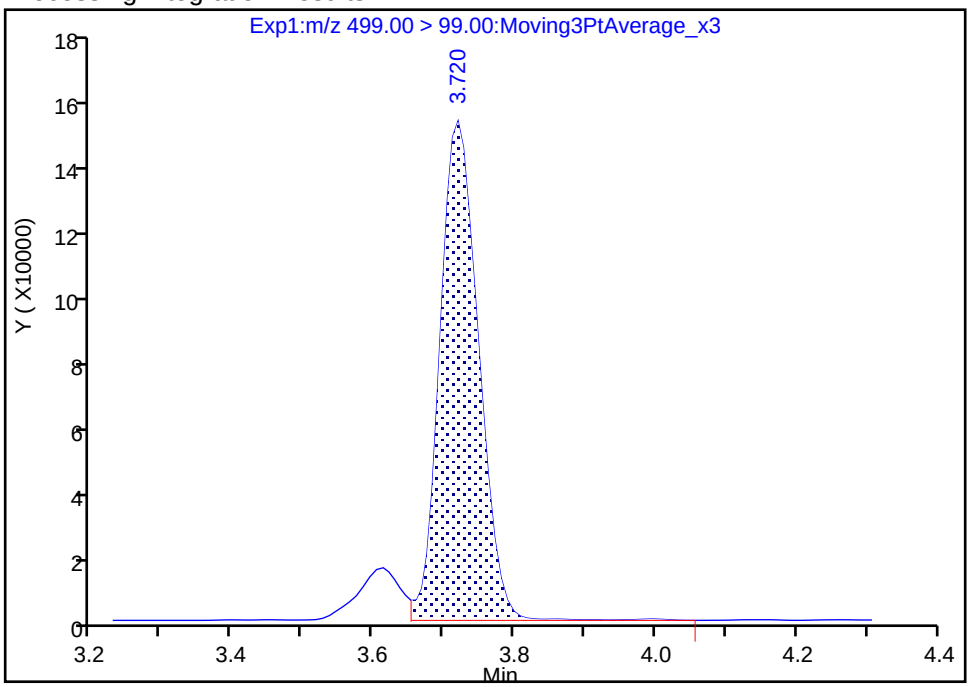
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_026.d				
Injection Date:	11-Sep-2020 13:24:21	Instrument ID:	A9		
Lims ID:	LCS 320-411226/2-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	14	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

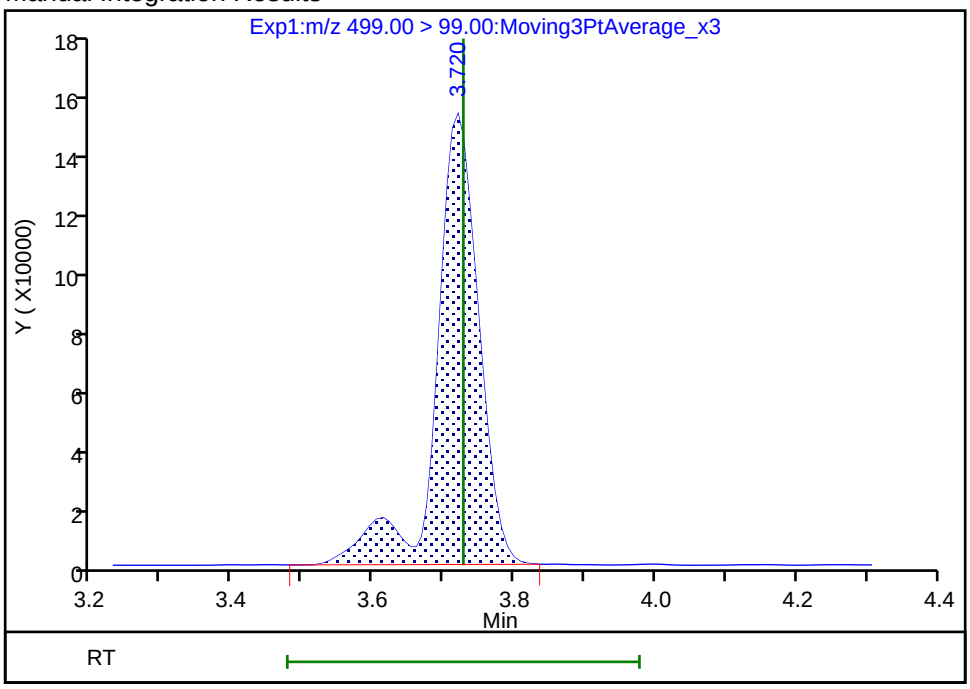
Processing Integration Results

RT: 3.72
Area: 565287
Amount: 0.958768
Amount Units: ng/ml



Manual Integration Results

RT: 3.72
Area: 623118
Amount: 0.958768
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 15:59:26

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-410910/3-A

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_076.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 15:29

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	39.95		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.21		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	39.20		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	36.55		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.44		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	44.28		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	32.38		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	42.82		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	32.50		2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	33.88		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	42.61		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	32.20		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.49		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	37.83		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.53		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	33.52		2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	38.85		2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	39.80		20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	37.29		20.0	1.90
27619-97-2	6:2 FTS	34.57		20.0	2.00
39108-34-4	8:2 FTS	37.33		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-410910/3-A

Matrix: Water Lab File ID: 2020.09.10_A18_PFC_A_076.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:52

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 15:29

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411087 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	63		25-150
STL01893	13C5 PFPeA	65		25-150
STL00993	13C2 PFHxA	70		25-150
STL01892	13C4 PFHpA	76		25-150
STL00990	13C4 PFOA	70		25-150
STL00995	13C5 PFNA	70		25-150
STL00996	13C2 PFDA	75		25-150
STL00997	13C2 PFUnA	71		25-150
STL00998	13C2 PFDoA	73		25-150
STL02116	13C2 PFTeDA	88		25-150
STL02337	13C3 PFBS	83		25-150
STL00994	18O2 PFHxS	84		25-150
STL00991	13C4 PFOS	81		25-150
STL01056	13C8 FOSA	69		25-150
STL02118	d3-NMeFOSAA	66		25-150
STL02117	d5-NEtFOSAA	73		25-150
STL02279	M2-6:2 FTS	78		25-150
STL02280	M2-8:2 FTS	79		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_076.d
Lims ID: LCSD 320-410910/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 10-Sep-2020 15:29:35 ALS Bottle#: 40 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: lcsd 320-410910/3-a
Misc. Info.: Plate: 4 Rack: 1
Operator ID: TAISACA18-PC\A-18 Instrument ID: A18

Method: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\PFAS_A18V2.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:29:35 Calib Date: 25-Aug-2020 17:37:57
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A18\20200825-102078.b\2020.08.25_A18_ICAL_A_017.d

Column 1 : Gemini C18 3um 3mm x 50 mm (3.00 mm) Det: EXP1
Process Host: CTX1040

First Level Reviewer: sanjumnair Date: 11-Sep-2020 08:29:35
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_073.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.530	2.557	-0.027	0.621	11894176	1.58		63.3	5925	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.530	2.557	-0.027	1.000	4123625	1.00		99.9	172	
D 4 13C5 PFPeA										
267.90 > 223.00	2.896	2.909	-0.013	0.711	9478832	1.62		64.8	4351	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.896	2.909	-0.013	1.000	3704842	0.9801		98.0	159	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.927	2.940	-0.013	1.000	3093857	0.8051	Target=2.30	91.1	680	
298.90 > 99.00	2.927	2.940	-0.013	1.000	1316580		2.35(1.15-3.45)		427	
D 9 13C3 PFBS										
301.90 > 80.00	2.927	2.940	-0.013	0.719	8847967	1.93		82.9	4123	
D 7 M2-4:2 FTS										
329.00 > 81.00	3.227	3.238	-0.011	0.793	1945107	1.76		75.3	868	
8 4:2 FTS										
327.00 > 307.00	3.227	3.238	-0.011	1.000	1644641	0.8686		93.0	6622	
D 11 13C2 PFHxA										
315.00 > 270.00	3.265	3.278	-0.013	0.802	10201412	1.75		69.9	5822	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.275	3.288	-0.013	1.003	3854722	0.9801	Target=13.35	98.0	255	
313.00 > 119.00	3.265	3.288	-0.023	1.000	285059		13.52(6.67-20.02)		211	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.285	3.298	-0.013	1.122	2726542	0.9040	Target=2.97	96.4	631	
349.00 > 99.00	3.285	3.298	-0.013	1.122	914997		2.98(1.48-4.45)		561	
13 HPFO-DA										
285.00 > 169.00	3.391	3.405	-0.014	1.000	704696	0.9563		95.6	2125	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C3 HFPO-DA										
287.00 > 169.00	3.391	3.405	-0.014	0.833	1891088	1.58		63.4	4405	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.676	3.691	-0.015	1.000	3528065	0.9137	Target=4.05	91.4	389	
363.00 > 169.00	3.676	3.691	-0.015	1.000	974512		3.62(2.03-6.08)		662	
15 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.676	3.691	-0.015	1.000	1962092	0.8121	Target=3.35	89.2	820	
399.00 > 99.00	3.676	3.691	-0.015	1.000	569640		3.44(1.67-5.02)		8220	
D 17 18O2 PFHxS										
403.00 > 84.00	3.676	3.691	-0.015	0.903	4836252	1.99		84.3	10296	
D 18 13C4 PFHpA										
367.00 > 322.00	3.676	3.691	-0.015	0.903	9521864	1.91		76.4	7304	
19 DONA										
377.00 > 251.00	3.725	3.740	-0.015	0.840	9871576	0.7738	Target=2.39	82.1	4558	
377.00 > 85.00	3.725	3.740	-0.015	0.840	3991968		2.47(1.20-3.59)		2636	
21 6:2 FTS										
427.00 > 407.00	4.055	4.058	-0.003	1.000	1443907	0.8643		91.2	2350	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.055	4.058	-0.003	0.996	1726055	1.86		78.3	1247	
24 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.063	4.074	-0.011	0.916	1407276	0.9458	Target=4.24	99.3	687	
449.00 > 99.00	4.063	4.074	-0.011	0.916	318443		4.42(2.12-6.36)		402	
22 Perfluorooctanoic acid										
413.00 > 369.00	4.071	4.082	-0.011	1.000	3359697	0.9861	Target=3.01	98.6	414	
413.00 > 169.00	4.071	4.082	-0.011	1.000	1117144		3.01(1.50-4.51)		1950	
* 23 13C2 PFOA										
415.00 > 370.00	4.071	4.082	-0.011		11853441	2.50			7257	
D 25 13C4 PFOA										
417.00 > 372.00	4.071	4.082	-0.011	1.000	8347216	1.76		70.4	6448	
D 27 13C4 PFOS										
503.00 > 80.00	4.434	4.446	-0.012	1.089	3181908	1.94		81.0	1451	
29 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.434	4.446	-0.012	1.000	1224087	0.8883	Target=4.54	95.7	433	M
499.00 > 99.00	4.434	4.446	-0.012	1.000	256468		4.77(2.27-6.82)		355	M
D 30 13C5 PFNA										
468.00 > 423.00	4.442	4.462	-0.020	1.091	6687219	1.75		70.0	8471	
31 Perfluorononanoic acid										
463.00 > 419.00	4.450	4.470	-0.020	1.002	2839418	1.11	Target=8.44	111	542	
463.00 > 169.00	4.450	4.470	-0.020	1.002	326621		8.69(4.22-12.67)		554	
32 9ClFOS										
531.00 > 351.00	4.637	4.647	-0.010	1.046	3566493	0.8279		88.8	6453	
D 33 13C8 FOSA										
506.00 > 78.00	4.772	4.786	-0.014	1.172	4545314	1.71		68.6	5079	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.772	4.786	-0.014	1.000	1643115	0.9712		97.1	2805	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.781	4.794	-0.013	1.078	1087316	0.8718	Target=2.79	90.8	730	
549.00 > 99.00	4.781	4.794	-0.013	1.078	381260		2.85(1.39-4.18)		765	
D 39 13C2 PFDA										
515.00 > 470.00	4.806	4.820	-0.014	1.181	6992110	1.88		75.3	8698	
37 Perfluorodecanoic acid										
513.00 > 469.00	4.806	4.820	-0.014	1.000	2182574	0.8096	Target=8.83	81.0	717	
513.00 > 169.00	4.806	4.820	-0.014	1.000	234835		9.29(4.42-13.25)		184	
36 8:2 FTS										
527.00 > 507.00	4.806	4.820	-0.014	1.000	1757660	0.9332		97.4	5528	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.806	4.820	-0.014	1.181	2541351	1.90		79.3	2013	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.972	4.978	-0.006	1.221	4141165	1.66		66.5	2909	
41 NMeFOSAA										
570.00 > 419.00	4.972	4.989	-0.017	1.000	1222329	0.99		99.5	1264	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.098	5.112	-0.014	1.150	931698	0.8381	Target=2.85	86.9	790	
599.00 > 99.00	5.098	5.112	-0.014	1.150	336246		2.77(1.43-4.28)		1057	
D 43 13C2 PFUnA										
565.00 > 520.00	5.125	5.139	-0.014	1.259	6553423	1.78		71.3	15404	
D 44 d5-NEtFOSAA										
589.00 > 419.00	5.134	5.148	-0.014	1.261	4790762	1.82		72.7	3465	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.134	5.148	-0.014	1.002	2035312	1.07	Target=8.45	107	969	
563.00 > 169.00	5.125	5.148	-0.023	1.000	219908		9.26(4.22-12.67)		451	
46 NEtFOSA										
584.00 > 419.00	5.143	5.157	-0.014	1.002	1207154	0.9321		93.2	1928	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	5.235	5.240	-0.005	1.286	2005789	3.06		24.5	1311	
48 N-MeFOSE-M										
616.00 > 59.00	5.244	5.249	-0.005	1.002	149540	0.8633		86.3	233	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.254	5.259	-0.005	1.291	1256873	1.35		54.0	34.5	
50 NMeFOSA										
512.00 > 169.00	5.265	5.270	-0.005	1.002	482724	1.00		100.0	354	
51 11ClFOS										
631.00 > 451.00	5.265	5.280	-0.015	1.187	4225097	0.7737		82.1	9286	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.409	5.416	-0.007	1.329	1811394	2.25		18.0	1106	
53 N-EtFOSE-M										
630.00 > 59.00	5.420	5.426	-0.006	1.002	152423	0.9804		98.0	172	
D 56 13C2 PFDoA										
615.00 > 570.00	5.430	5.437	-0.007	1.334	6595057	1.82		72.7	7947	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.420	5.437	-0.017	0.998	2191979	0.8126	Target=8.28	81.3	843	
613.00 > 169.00	5.420	5.437	-0.017	0.998	265020		8.27(4.14-12.41)		599	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.430	5.437	-0.007	1.334	910429	0.9548		38.2	186	
55 N-EtFOSA-M										
526.00 > 169.00	5.441	5.448	-0.007	1.002	357380	0.9272		92.7	204	
58 10:2 FTS										
627.00 > 607.00	5.441	5.459	-0.018	1.132	2005959	0.9386		97.4	9154	
59 PFDoS										
699.00 > 80.00	5.648	5.667	-0.019	1.274	379487	0.8563	Target=0.71	88.5	369	
699.00 > 99.00	5.648	5.667	-0.019	1.274	527379		0.72(0.36-1.07)		1247	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.684	5.701	-0.017	1.047	2102417	0.8470	Target=7.29	84.7	1357	
663.00 > 169.00	5.684	5.701	-0.017	1.047	349966		6.01(3.65-10.94)		1090	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.921	5.948	-0.027	1.455	6569375	2.20		87.8	7866	
62 Perfluorotetradecanoic acid										
713.00 > 169.00	5.933	5.948	-0.015	1.002	236208	1.07	Target=1.00	107	1271	
713.00 > 219.00	5.933	5.948	-0.015	1.002	242672		0.97(0.50-1.50)		1415	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.366	6.377	-0.011	1.564	3709058	1.69		67.8	5874	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.366	6.386	-0.020	1.000	1421872	1.07	Target=9.97	107	1187	
813.00 > 169.00	6.366	6.386	-0.020	1.000	132330		10.74(4.98-14.95)		956	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.815	6.835	-0.020	1.071	1037547	1.06	Target=12.11	106	1149	
913.00 > 169.00	6.808	6.835	-0.027	1.070	85472		12.14(6.05-18.16)		802	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:29:36 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_076.d

Injection Date: 10-Sep-2020 15:29:35 Instrument ID: A18

Lims ID: LCSD 320-410910/3-A

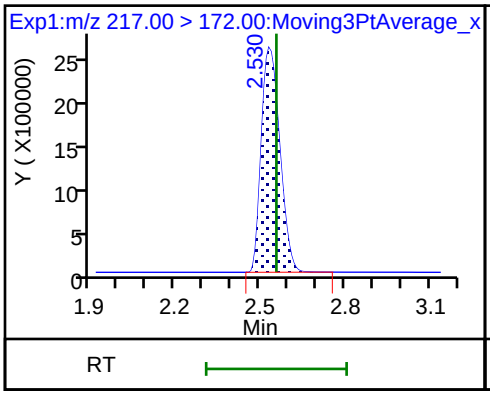
Client ID:

Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 40 Worklist Smp#: 4

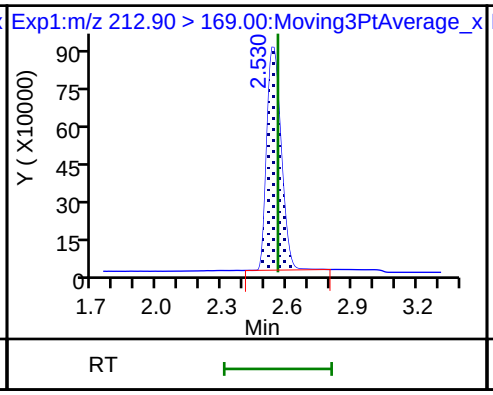
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A18V2 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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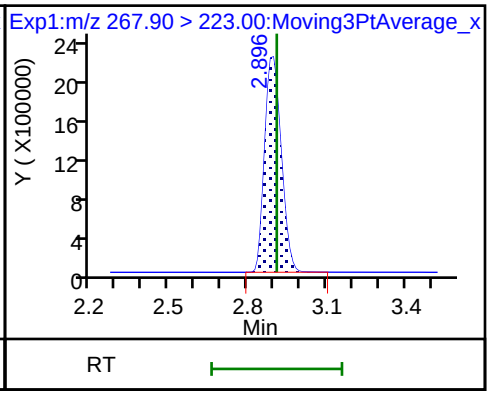
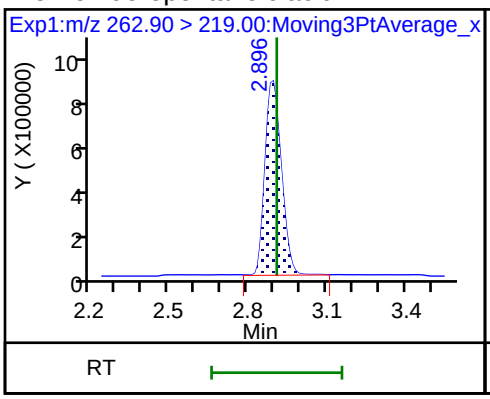
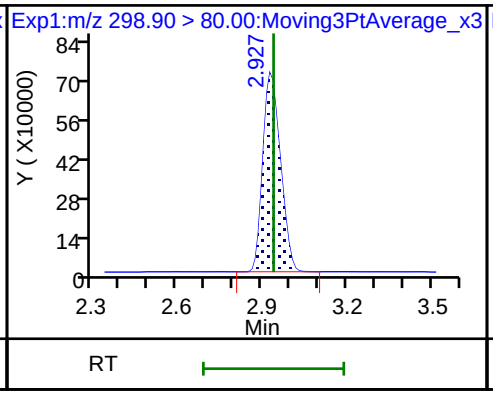


5 Perfluoropentanoic acid



6 Perfluorobutanesulfonic acid



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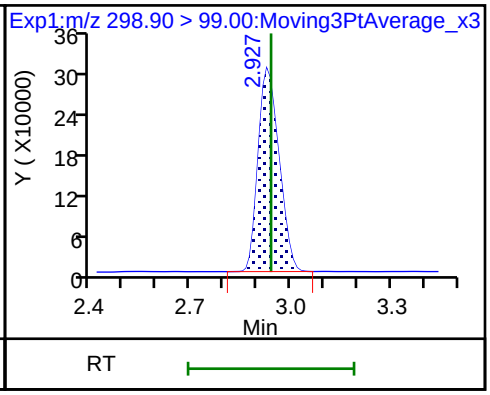
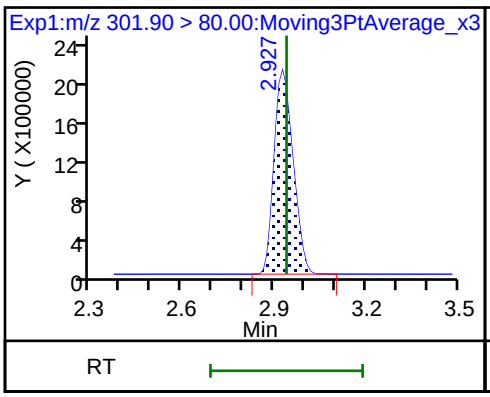
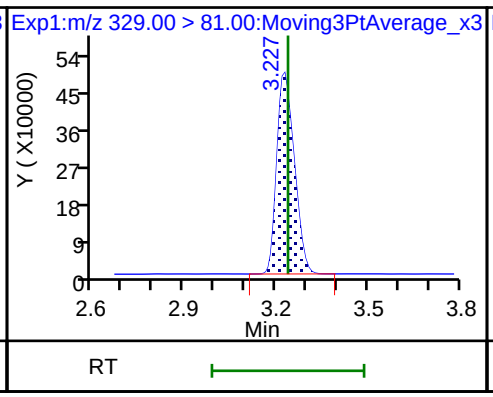


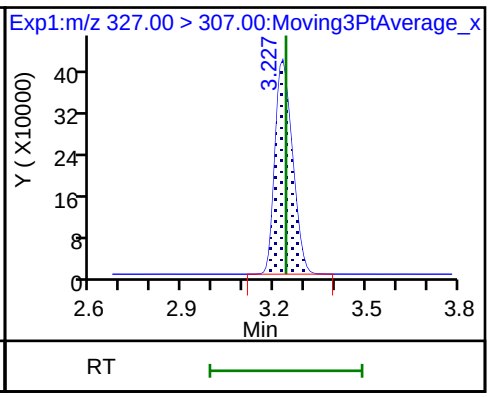
D 9 13C3 PFBS



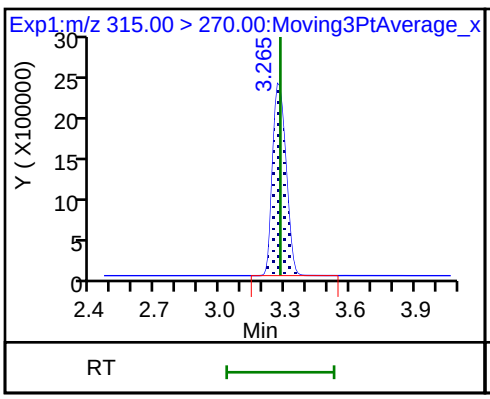
D 7 M2-4:2 FTS



8 4:2 FTS



D 11 13C2 PFHxA



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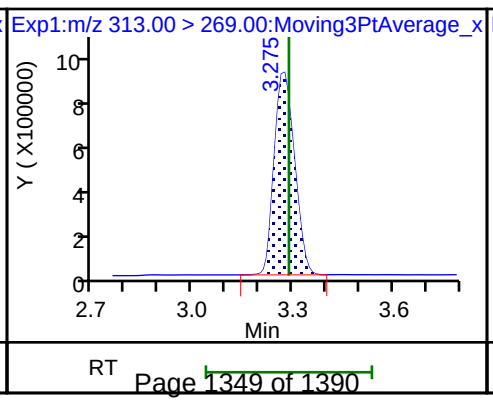
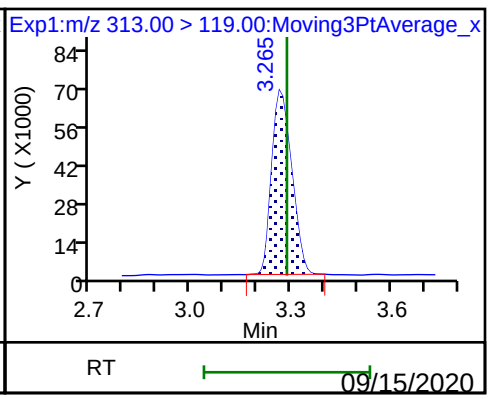
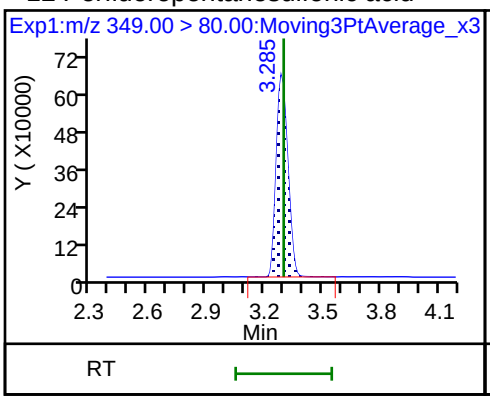


10 Perfluorohexanoic acid



12 Perfluoropentanesulfonic acid



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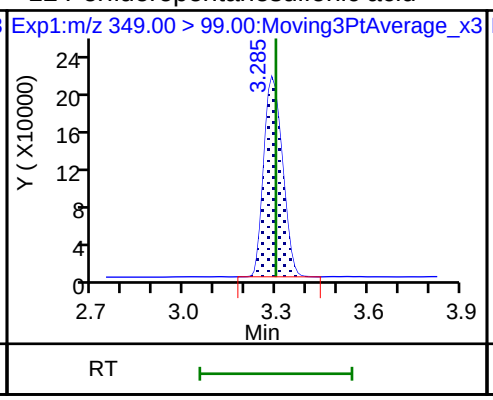
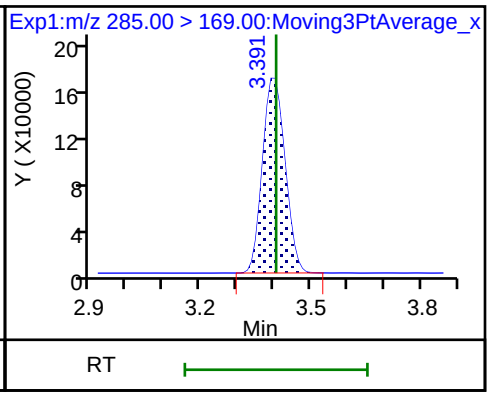
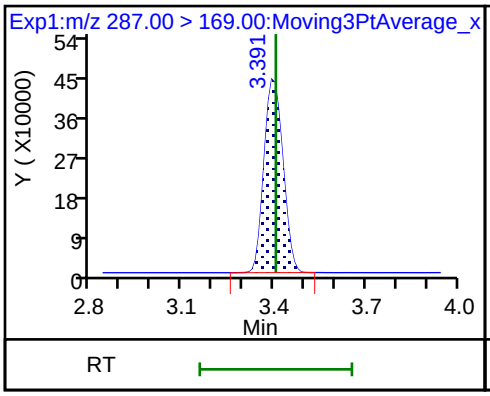


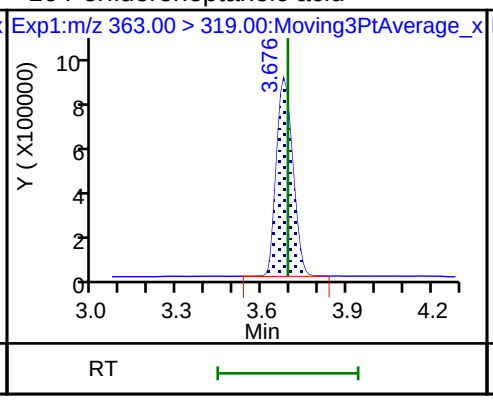
13 HPFO-DA



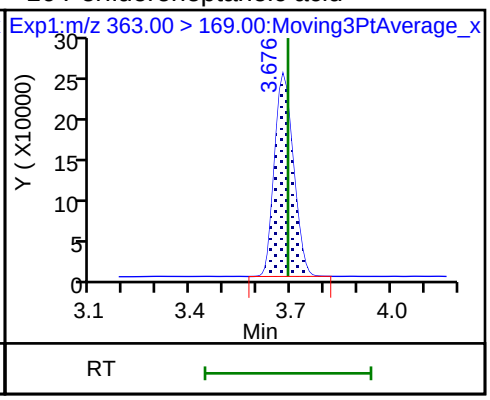
D 14 13C3 HFPO-DA



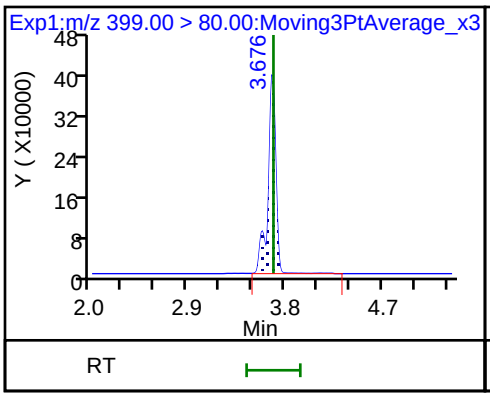
16 Perfluoroheptanoic acid



16 Perfluoroheptanoic acid



15 Perfluorohexanesulfonic acid



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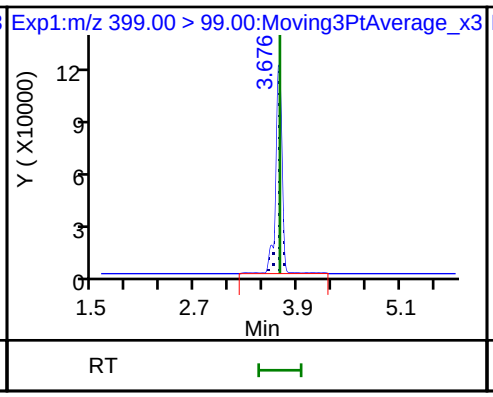
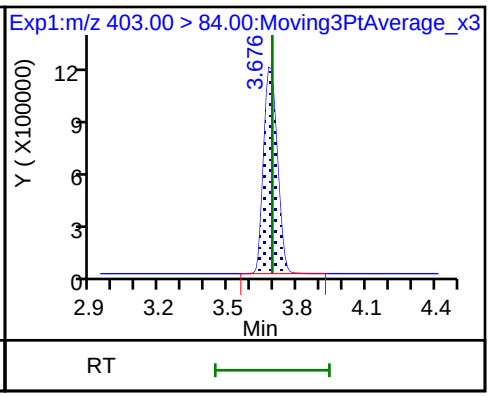


D 17 18O2 PFHxS



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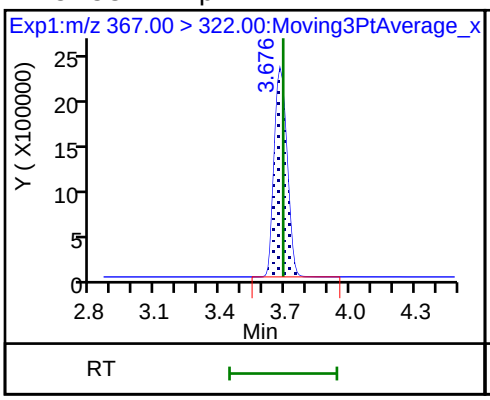
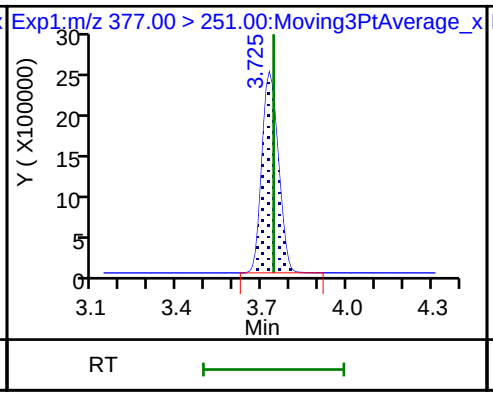


19 DONA



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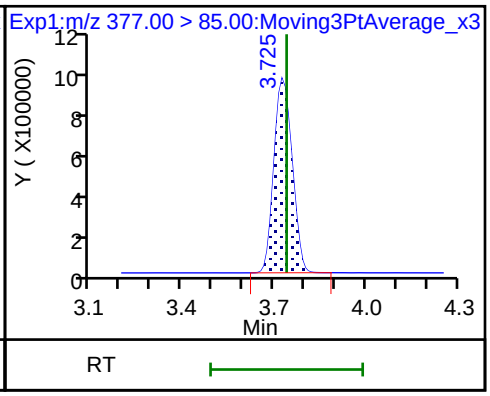
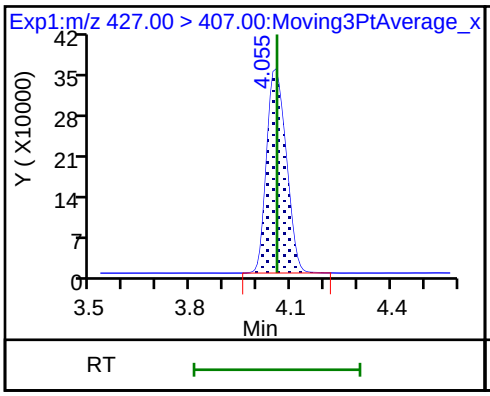
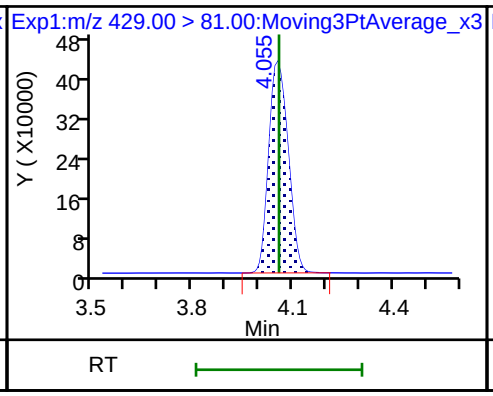


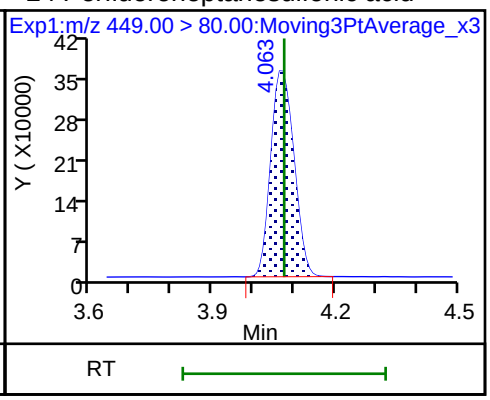
21 6:2 FTS



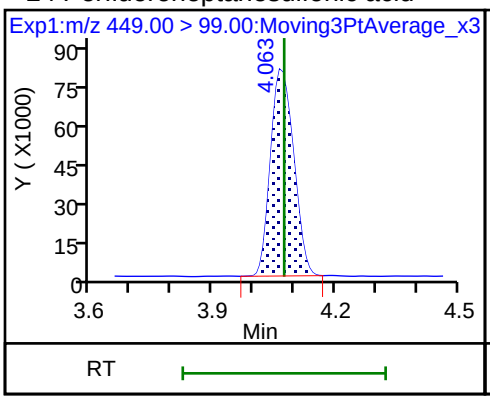
D 20 M2-6:2 FTS



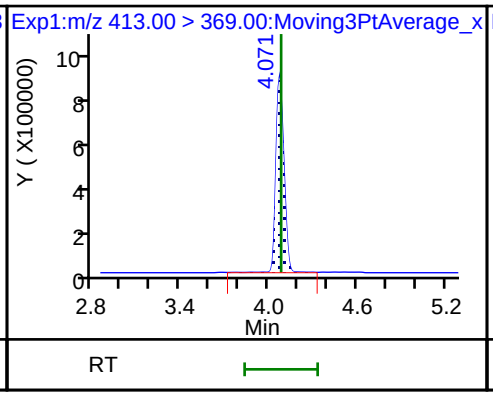
24 Perfluoroheptanesulfonic acid



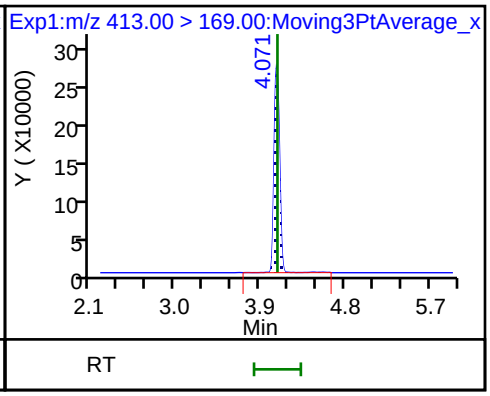
24 Perfluoroheptanesulfonic acid



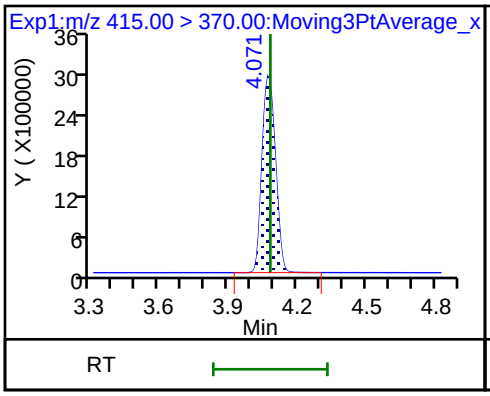
22 Perfluorooctanoic acid



22 Perfluorooctanoic acid



* 23 13C2 PFOA



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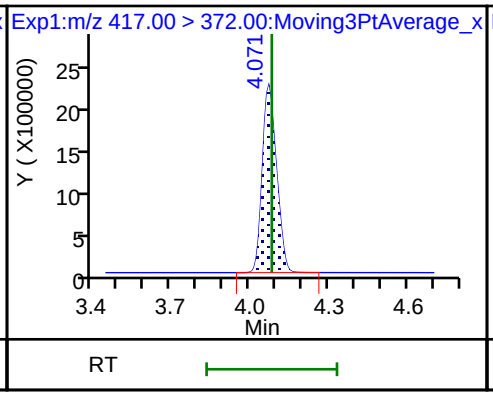

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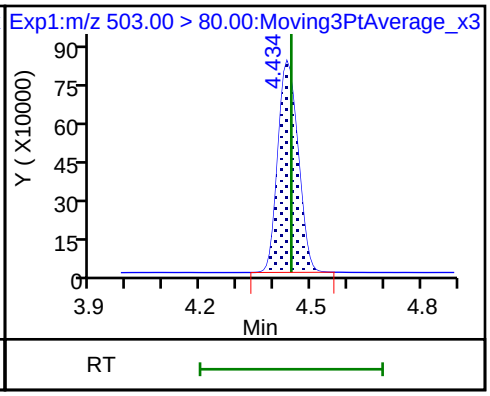
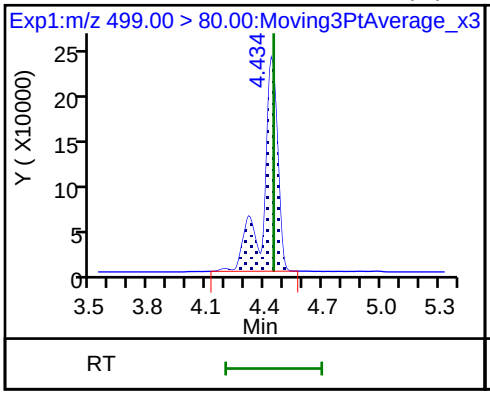
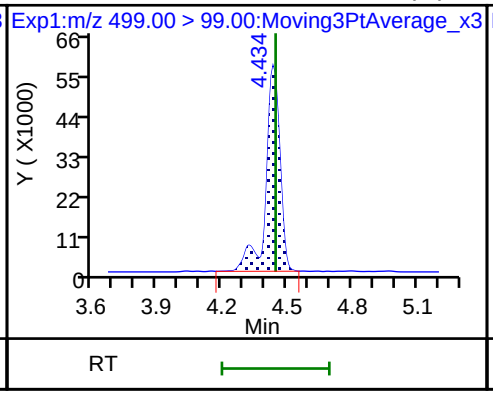


29 Perfluorooctanesulfonic acid (M)



29 Perfluorooctanesulfonic acid (M)



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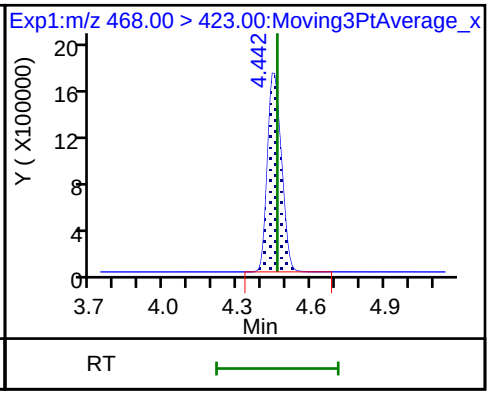
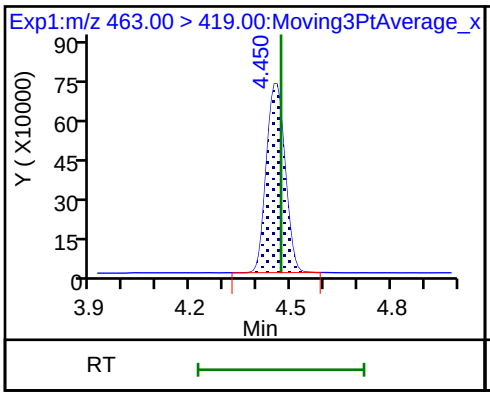
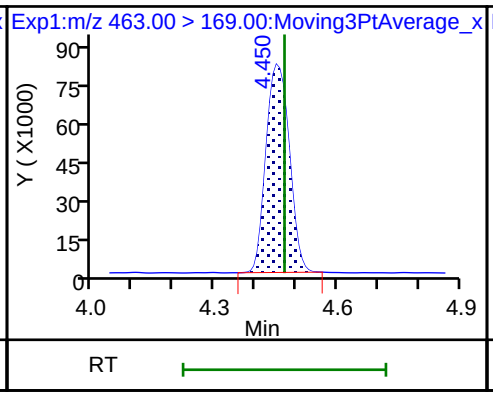


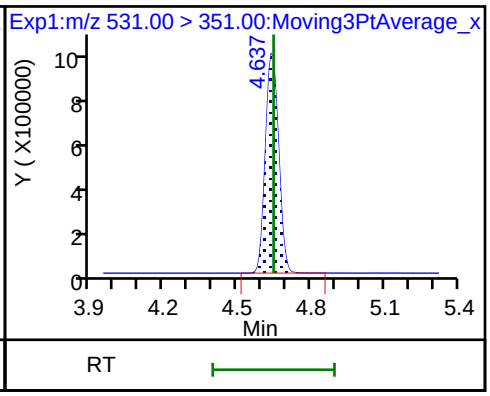
31 Perfluorononanoic acid



31 Perfluorononanoic acid



32 9ClFOS



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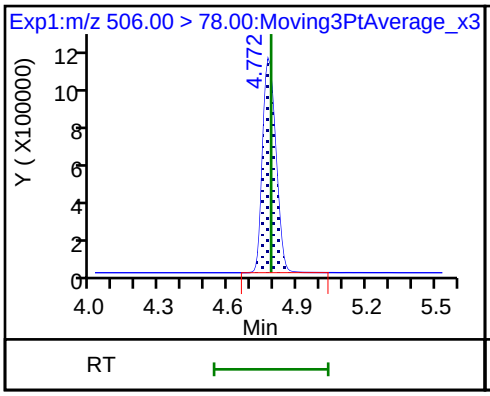
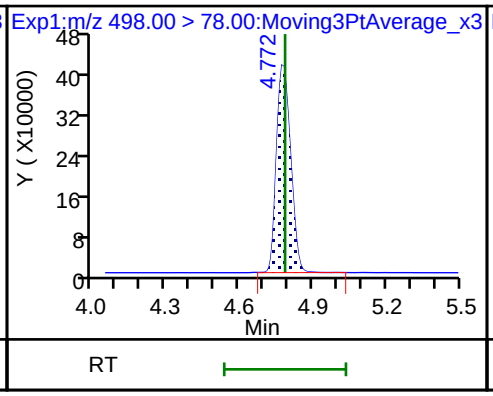
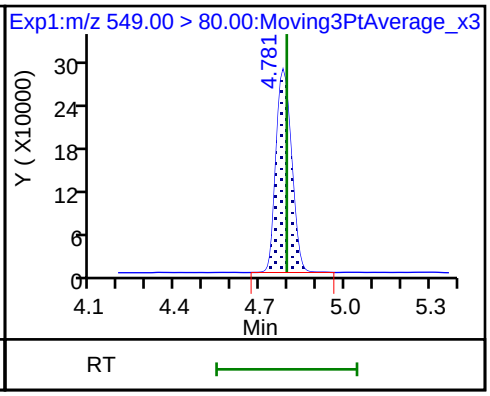


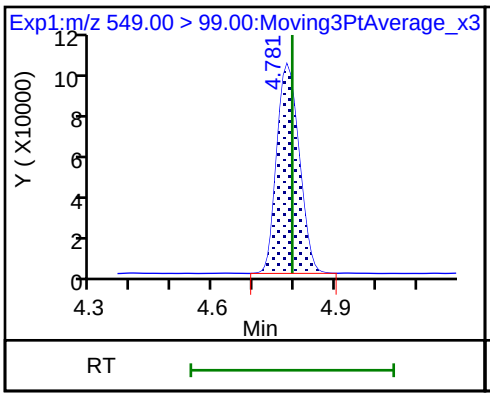
34 Perfluorooctanesulfonamide



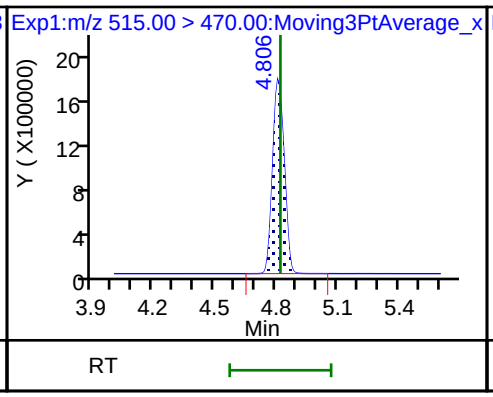
35 Perfluorononanesulfonic acid



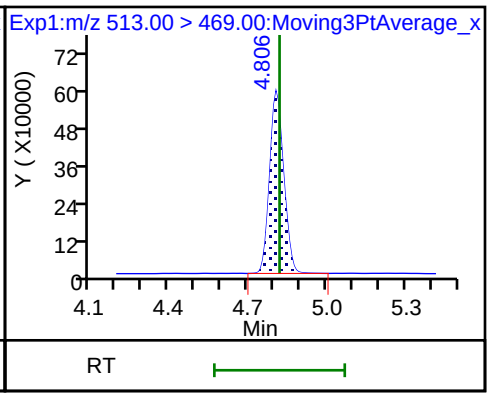
35 Perfluorononanesulfonic acid



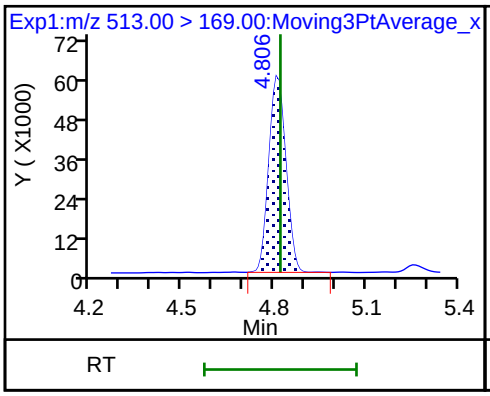
D 39 13C2 PFDA



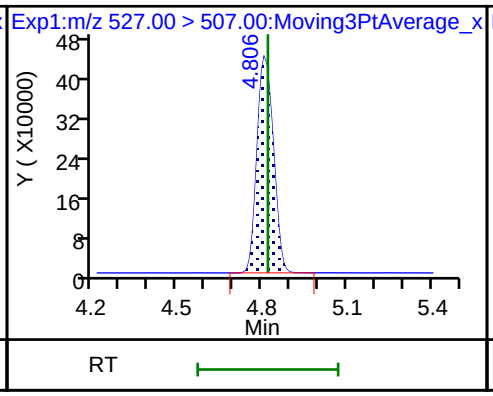
37 Perfluorodecanoic acid



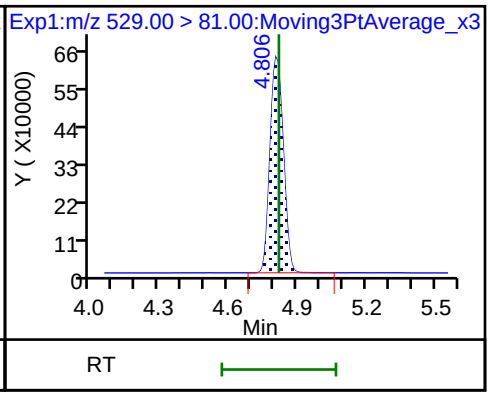
37 Perfluorodecanoic acid



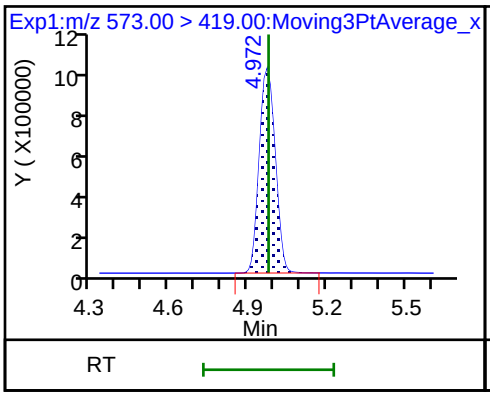
36 8:2 FTS



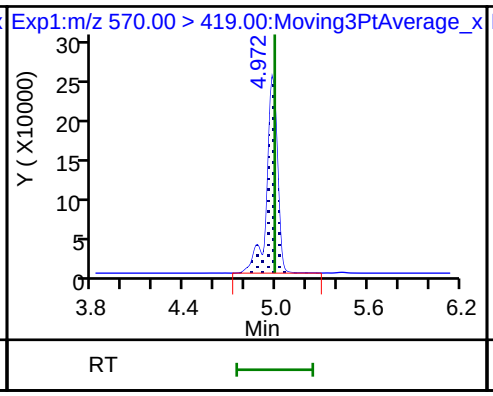
D 38 M2-8:2 FTS



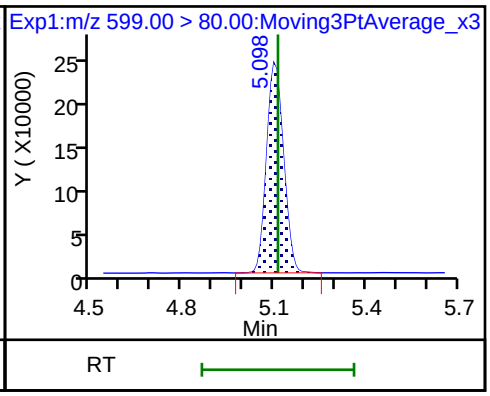
D 40 d3-NMeFOSAA



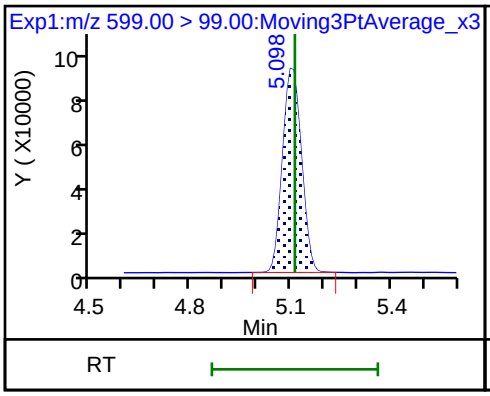
41 NMeFOSAA



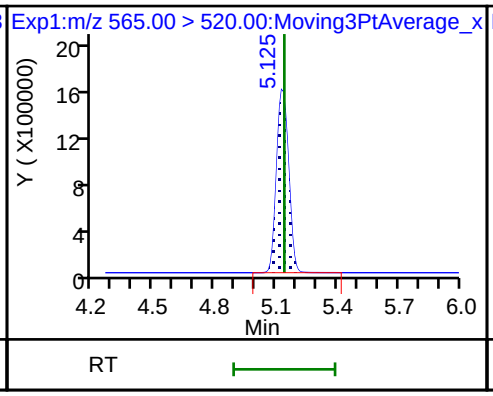
42 Perfluorodecanesulfonic acid



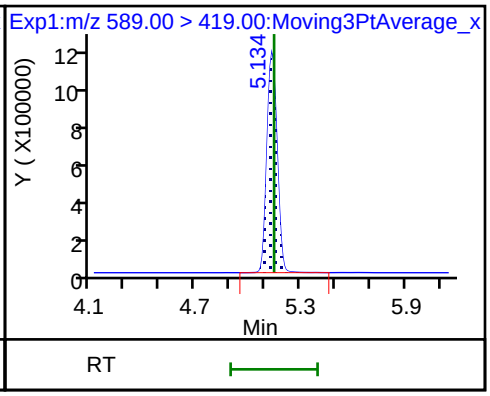
42 Perfluorodecanesulfonic acid



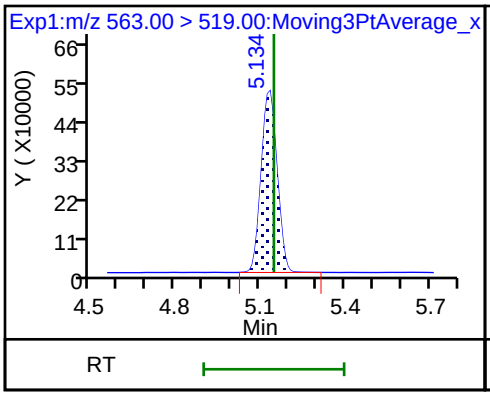
D 43 13C2 PFUnA



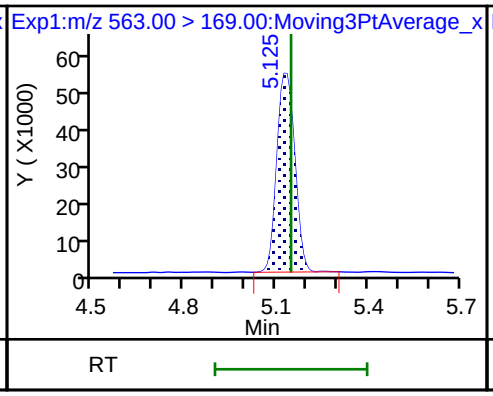
D 44 d5-NEtFOSAA



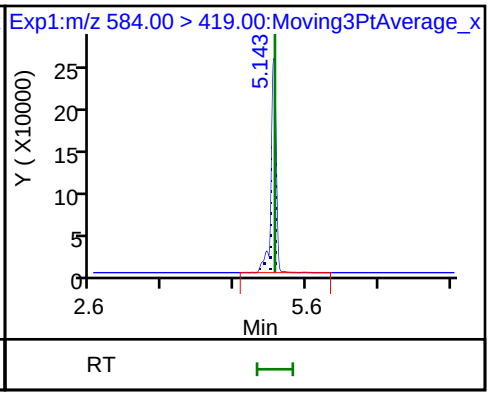
45 Perfluoroundecanoic acid



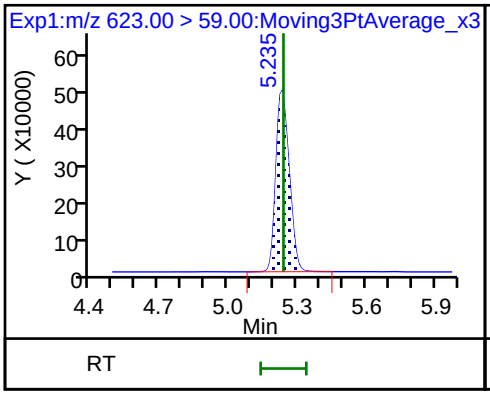
45 Perfluoroundecanoic acid



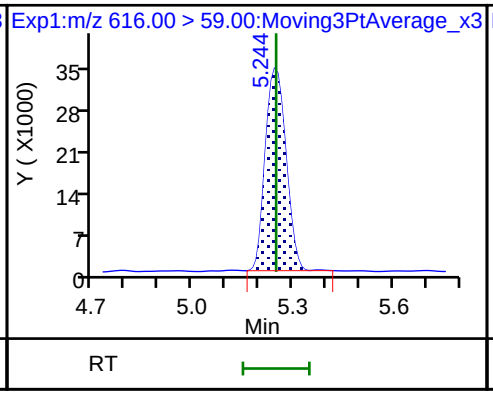
46 NEtFOSA



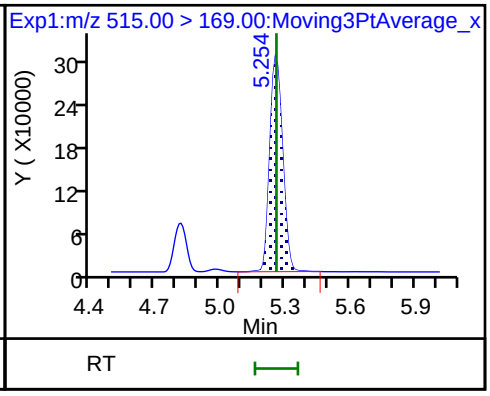
D 47 d7-N-MeFOSE-M



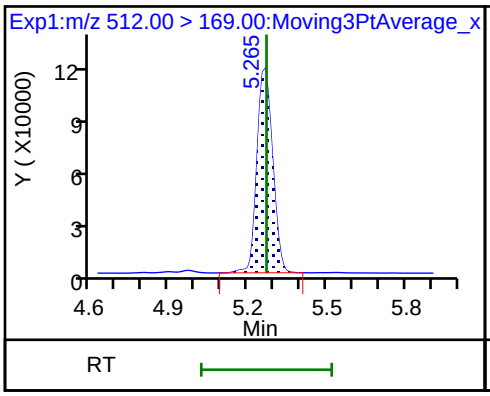
48 N-MeFOSE-M



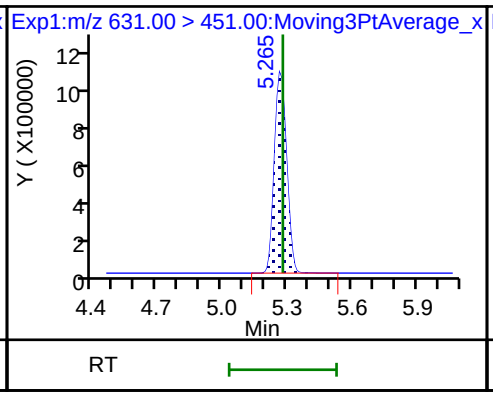
D 49 d-N-MeFOSA-M



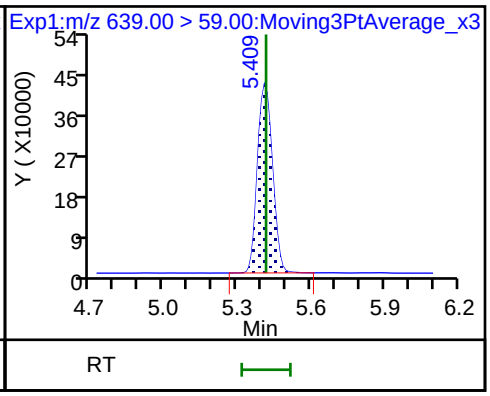
50 NMeFOSA



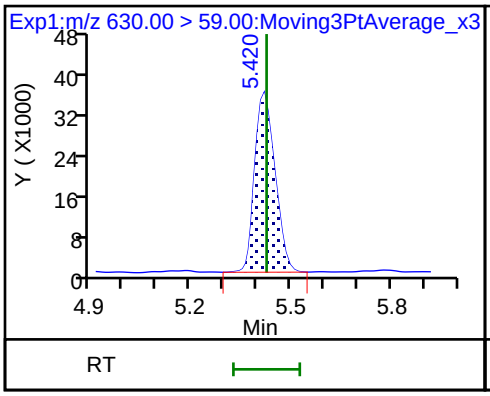
51 11ClFOS



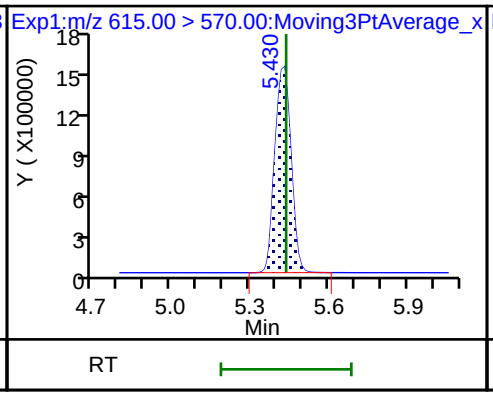
D 52 d9-N-EtFOSE-M



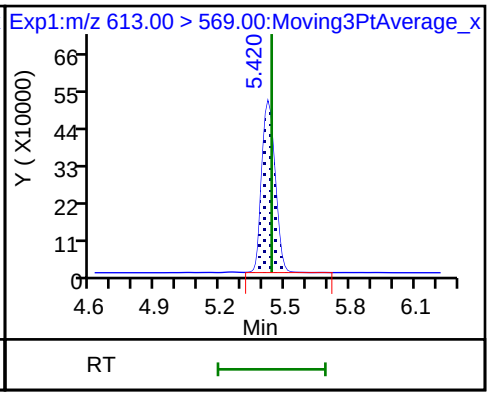
53 N-EtFOSE-M



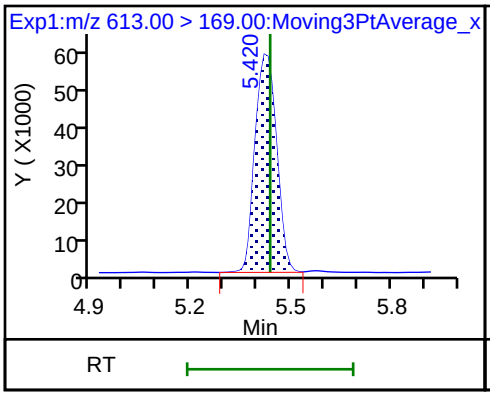
D 56 13C2 PFDoA



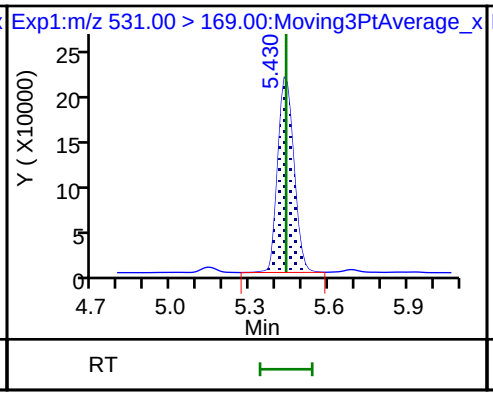
57 Perfluorododecanoic acid



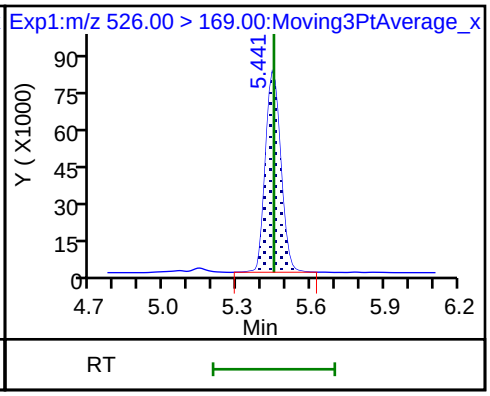
57 Perfluorododecanoic acid



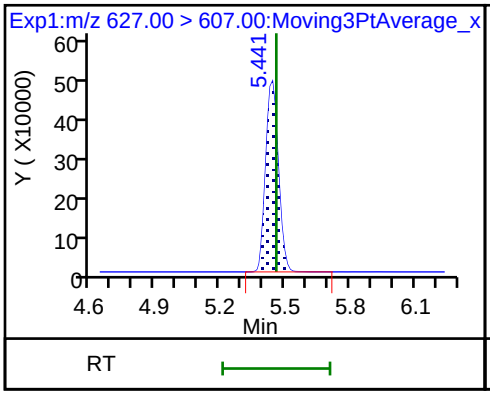
D 54 d-N-EtFOSA-M



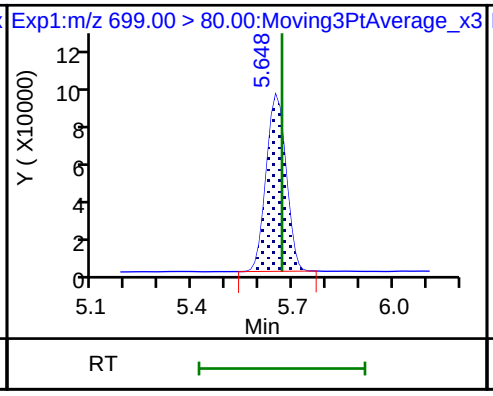
55 N-EtFOSA-M



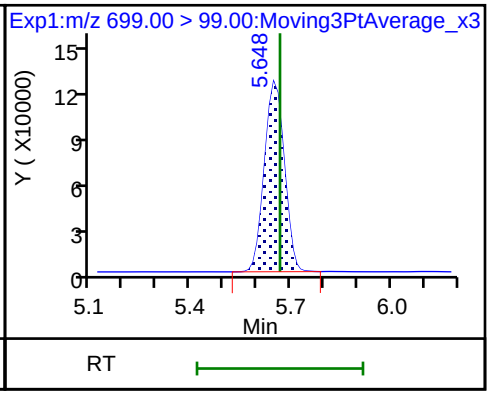
58 10:2 FTS



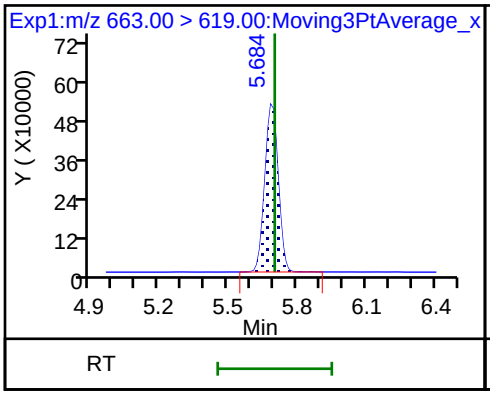
59 PFDoS



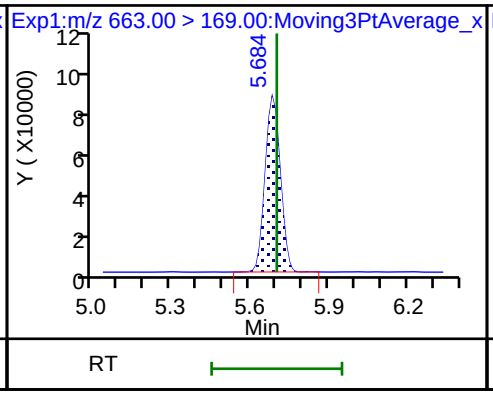
59 PFDoS



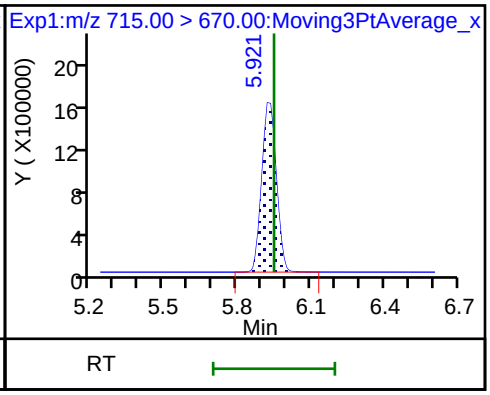
60 Perfluorotridecanoic acid



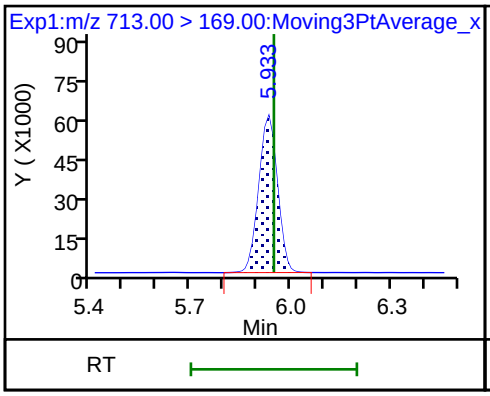
60 Perfluorotridecanoic acid



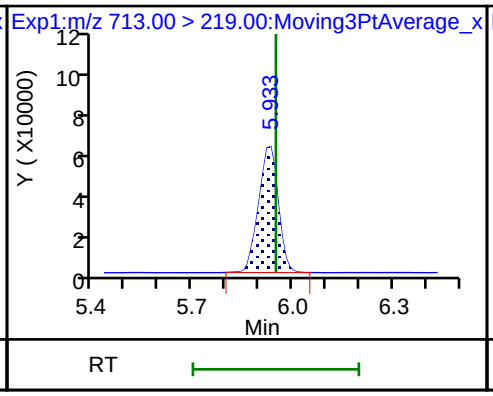
D 61 13C2 PFTeDA



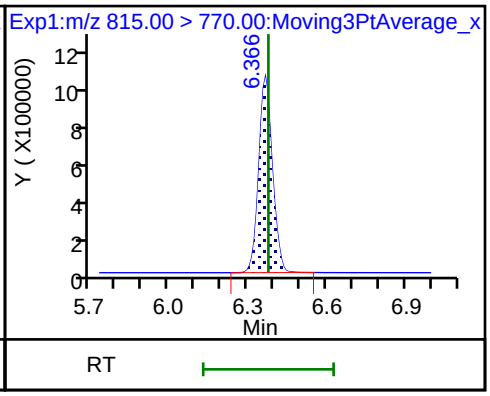
62 Perfluorotetradecanoic acid



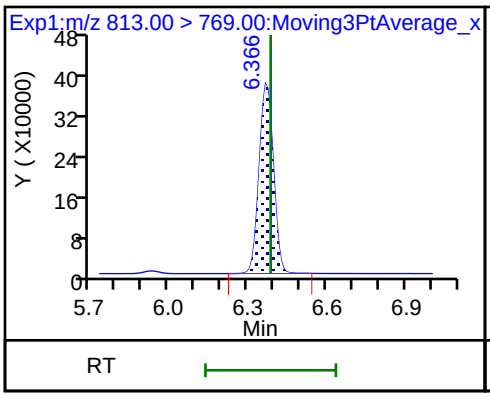
62 Perfluorotetradecanoic acid



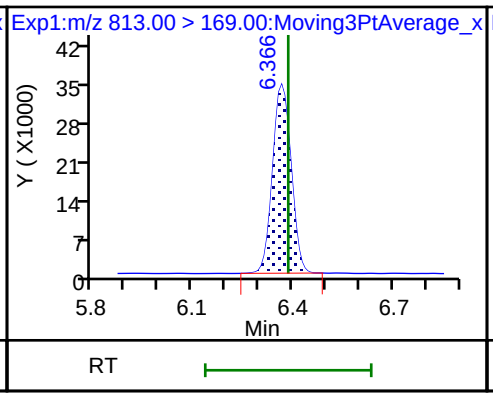
D 64 13C2 PFHxDA



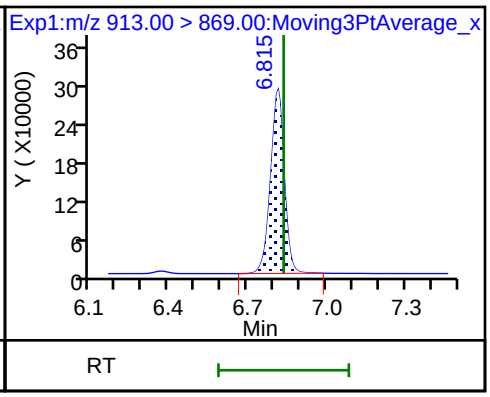
63 Perfluorohexadecanoic acid



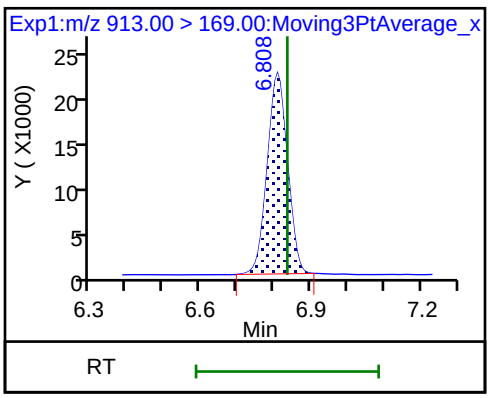
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

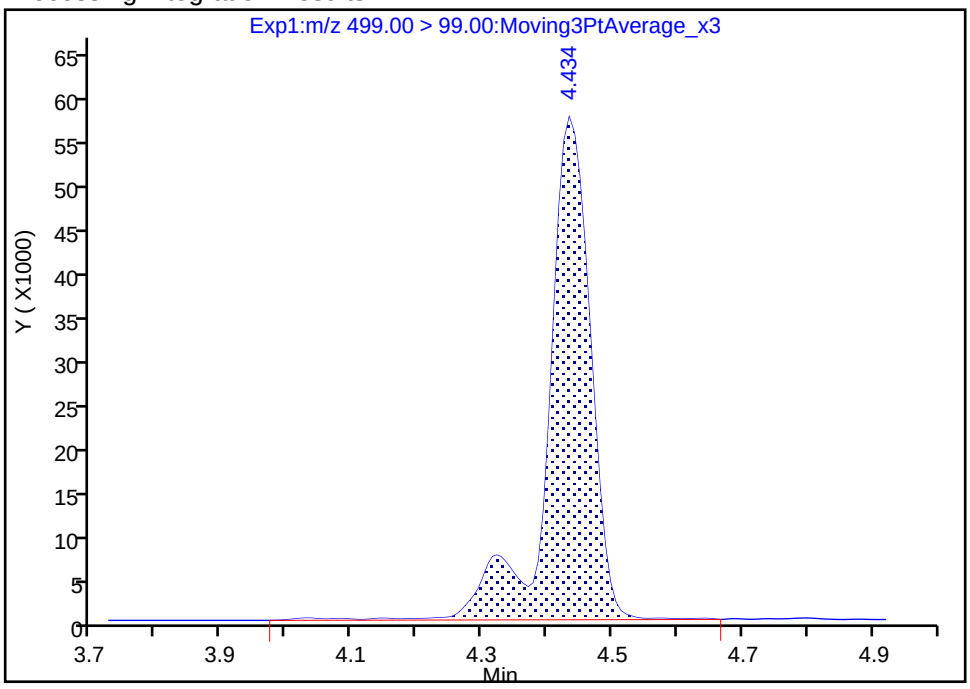
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_076.d
Injection Date: 10-Sep-2020 15:29:35 Instrument ID: A18
Lims ID: LCSD 320-410910/3-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 40 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00 mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

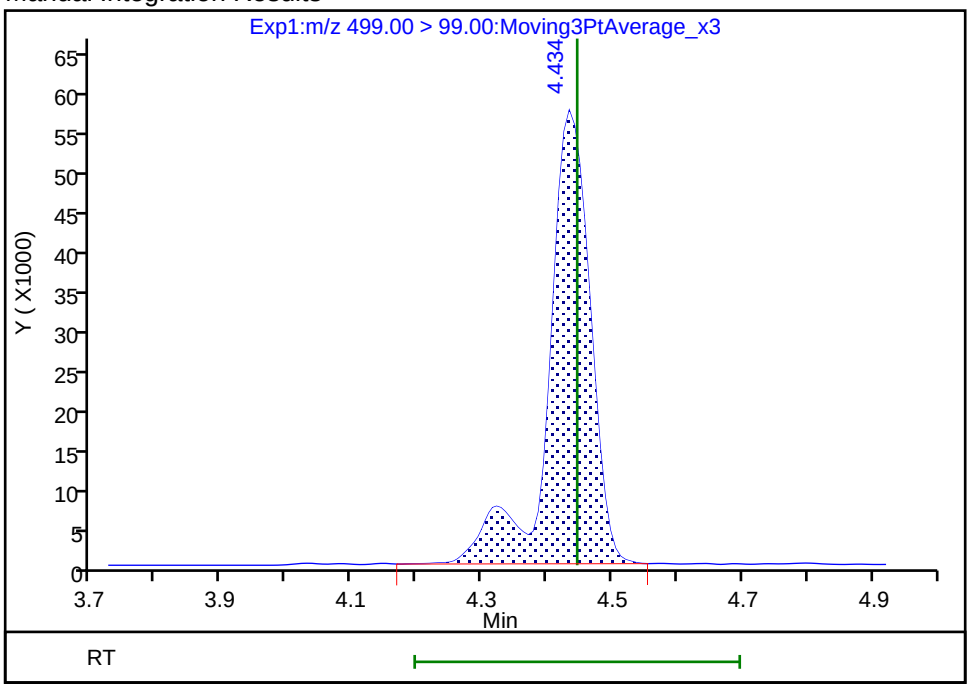
Processing Integration Results

RT: 4.43
Area: 261394
Amount: 0.682397
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 256468
Amount: 0.888315
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:29:18
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

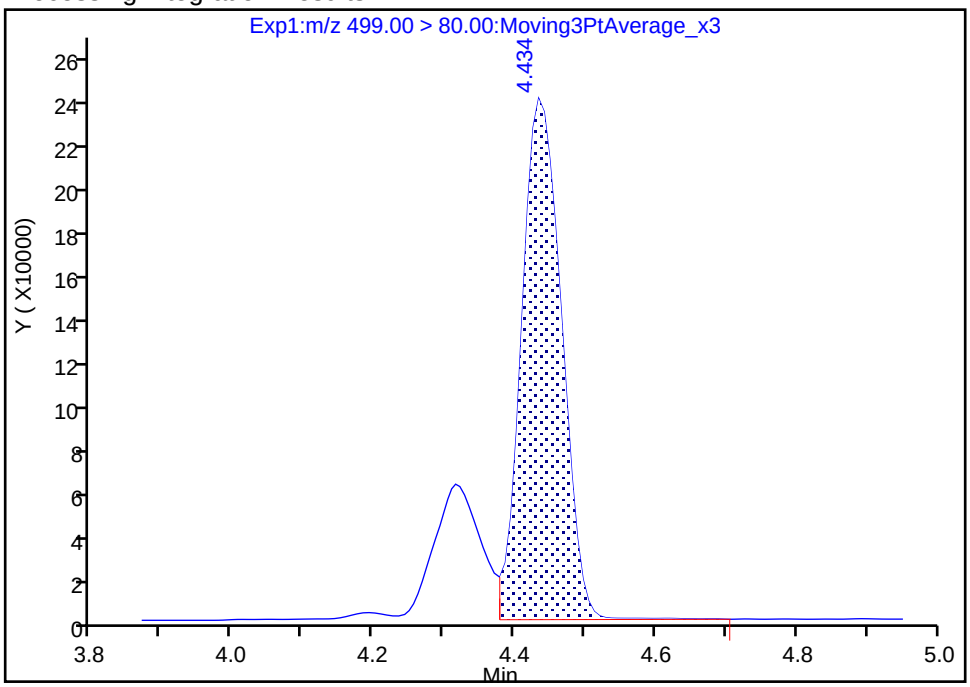
Data File: \\chromfs\Sacramento\ChromData\A18\20200910-103041.b\2020.09.10_A18_PFC_A_076.d
Injection Date: 10-Sep-2020 15:29:35 Instrument ID: A18
Lims ID: LCSD 320-410910/3-A
Client ID:
Operator ID: TAISACA18-PC\A-18 ALS Bottle#: 40 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A18V2 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3mm x 50 mm (3.00mm) Detector EXP1

29 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

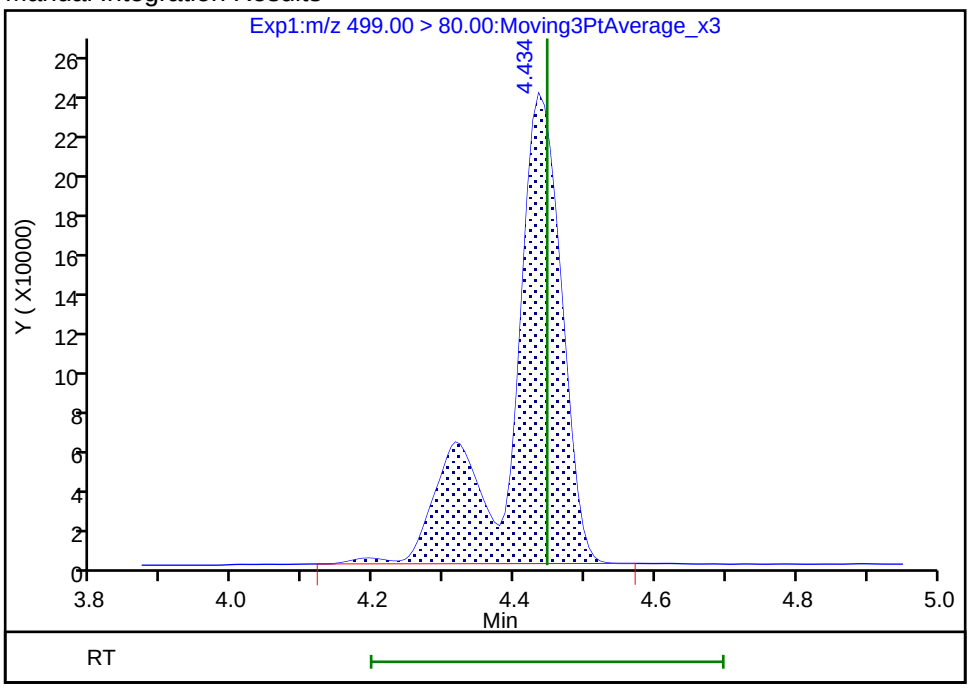
Processing Integration Results

RT: 4.43
Area: 940334
Amount: 0.682397
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 1224087
Amount: 0.888315
Amount Units: ng/ml



Reviewer: sanjumnair, 11-Sep-2020 08:29:25
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-411226/3-A

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_027.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 250(mL) Date Analyzed: 09/11/2020 13:33

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	43.48		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.01		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	41.96		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	42.11		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	41.33		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	45.26		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	41.84		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	45.15		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	45.36		2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	40.17		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	39.04		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	37.40		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	34.52		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	40.88		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	37.79		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	38.93		2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	45.31		2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	43.86		20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	42.04		20.0	1.90
27619-97-2	6:2 FTS	35.19		20.0	2.00
39108-34-4	8:2 FTS	40.25		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-411226/3-A

Matrix: Water Lab File ID: 2020.09.11_A9_PFC_AA_027.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/10/2020 18:32

Sample wt/vol: 250(mL) Date Analyzed: 09/11/2020 13:33

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411454 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	86		25-150
STL01893	13C5 PFPeA	89		25-150
STL00993	13C2 PFHxA	90		25-150
STL01892	13C4 PFHpA	91		25-150
STL00990	13C4 PFOA	89		25-150
STL00995	13C5 PFNA	94		25-150
STL00996	13C2 PFDA	95		25-150
STL00997	13C2 PFUnA	96		25-150
STL00998	13C2 PFDoA	88		25-150
STL02116	13C2 PFTeDA	89		25-150
STL02337	13C3 PFBS	94		25-150
STL00994	18O2 PFHxS	94		25-150
STL00991	13C4 PFOS	97		25-150
STL01056	13C8 FOSA	81		25-150
STL02118	d3-NMeFOSAA	79		25-150
STL02117	d5-NEtFOSAA	79		25-150
STL02279	M2-6:2 FTS	95		25-150
STL02280	M2-8:2 FTS	92		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_027.d
Lims ID: LCSD 320-411226/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Sep-2020 13:33:42 ALS Bottle#: 15 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: lcsd 320-411226/3-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTRLCMS02 Instrument ID: A9

Method: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\PFAS_A9.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 16:04:46 Calib Date: 10-Sep-2020 12:29:20
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A9\20200910-102999.b\2020.09.10_A9 _PFC_ICAL_AA_022.d

Column 1 : Det: EXP1
Process Host: CTX1061

First Level Reviewer: zibaa Date: 11-Sep-2020 16:04:46
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_024.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.888	1.893	-0.005	0.564	7249713	2.16		86.2	2622	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.893	1.893	0.0	1.003	2753445	1.09		109	89.4	
D 4 13C5 PFPeA										
267.90 > 223.00	2.190	2.198	-0.008	0.655	6337829	2.23		89.4	2638	
3 Perfluoropentanoic acid										
262.90 > 219.00	2.190	2.198	-0.008	1.000	2515766	0.9752		97.5	96.9	
D 6 13C3 PFBS										
301.90 > 80.00	2.224	2.223	0.001	0.665	12200357	2.18		93.6	4288	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.224	2.233	-0.009	1.000	4895148	0.9351	Target=3.28	106	387	
298.90 > 99.00	2.224	2.233	-0.009	1.000	1447940		3.38(1.64-4.92)		200	
9 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.515	2.514	0.001	1.000	926581	0.9634		103	3646	
D 8 M2-4:2 FTS										
329.00 > 81.00	2.515	2.514	0.001	0.752	1135391	2.04		87.4	521	
D 10 13C2 PFHxA										
315.00 > 270.00	2.547	2.557	-0.010	0.761	5912571	2.24		89.7	3572	
11 Perfluorohexanoic acid										
313.00 > 269.00	2.547	2.557	-0.010	1.000	2070099	1.05	Target=10.43	105	154	
313.00 > 119.00	2.547	2.557	-0.010	1.000	199780		10.36(5.21-15.64)		124	
12 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.568	2.568	0.0	1.155	2040545	0.9684	Target=2.07	103	608	
349.00 > 99.00	2.568	2.568	0.0	1.155	1026174		1.99(1.04-3.11)		550	
D 13 13C3 HFPO-DA										
287.00 > 169.00	2.661	2.673	-0.012	0.795	4061910	2.24		89.8	3053	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 Perfluoro(2-propoxypropanoic) ac										
285.00 > 169.00	2.674	2.673	0.001	1.005	659404	1.03		103	2173	
D 15 13C4 PFHpA										
367.00 > 322.00	2.940	2.940	0.0	0.879	5857704	2.28		91.3	4412	
D 17 18O2 PFHxS										
403.00 > 84.00	2.946	2.946	0.0	0.881	5985777	2.23		94.4	5596	
16 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.946	2.946	0.0	1.000	2576449	0.8630	Target=3.49	94.8	576	
399.00 > 99.00	2.946	2.946	0.0	1.000	790034		3.26(1.75-5.24)		396	M
18 Perfluoroheptanoic acid										
363.00 > 319.00	2.940	2.946	-0.006	1.000	2735656	1.05	Target=3.74	105	310	
363.00 > 169.00	2.940	2.946	-0.006	1.000	700242		3.91(1.87-5.61)		514	
19 DONA										
377.00 > 251.00	2.987	2.993	-0.006	0.803	4718494	0.9572	Target=1.88	102	4018	
377.00 > 85.00	2.987	2.993	-0.006	0.803	2621337		1.80(0.94-2.82)		1795	
D 20 M2-6:2 FTS										
429.00 > 81.00	3.324	3.324	0.0	0.994	1082914	2.26		95.0	1005	
22 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.324	3.331	-0.007	1.000	618456	0.8798		92.8	489	
D 26 13C4 PFOA										
417.00 > 372.00	3.345	3.345	0.0	1.000	5333292	2.22		88.7	4083	
24 Perfluorooctanoic acid										
413.00 > 369.00	3.345	3.345	0.0	1.000	2377344	1.03	Target=2.44	103	347	
413.00 > 169.00	3.345	3.345	0.0	1.000	1012845		2.35(1.22-3.66)		881	
* 25 13C2 PFOA										
415.00 > 370.00	3.345	3.345	0.0		6230408	2.50			4816	
23 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.338	3.345	-0.007	0.897	2568271	1.02	Target=3.67	107	911	
449.00 > 99.00	3.338	3.345	-0.007	0.897	679045		3.78(1.84-5.51)		1061	
D 31 13C4 PFOS										
503.00 > 80.00	3.720	3.720	0.0	1.112	6497664	2.32		97.2	2066	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.720	3.727	-0.007	1.000	2670066	0.9446	Target=4.47	102	339	
499.00 > 99.00	3.720	3.727	-0.007	1.000	608953		4.38(2.24-6.71)		677	M
D 29 13C5 PFNA										
468.00 > 423.00	3.735	3.735	0.0	1.117	4905207	2.35		94.0	4290	
30 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.735	0.0	1.000	2210440	1.13	Target=4.27	113	788	
463.00 > 169.00	3.735	3.735	0.0	1.000	511866		4.32(2.13-6.40)		1010	
32 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.928	3.928	0.0	1.056	1624859	0.9525		102	2323	
34 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.074	0.0	1.000	3369271	1.13		113	1373	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.074	4.074	0.0	1.095	1980982	0.9599	Target=5.58	100	882	
549.00 > 99.00	4.074	4.074	0.0	1.095	325094		6.09(2.79-8.37)		1396	
D 36 13C8 FOSA										
506.00 > 78.00	4.074	4.074	0.0	1.218	2673393	2.03		81.3	2544	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 33 13C2 PFDA										
515.00 > 470.00	4.092	4.100	-0.008	1.223	6260662	2.36		94.5	6436	
38 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.100	-0.008	1.000	2614187	1.05	Target=14.43	105	793	
513.00 > 169.00	4.092	4.100	-0.008	1.000	180749		14.46(7.21-21.64)		258	
39 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.101	4.100	0.001	1.000	700635	1.01		105	3378	
D 37 M2-8:2 FTS										
529.00 > 81.00	4.101	4.100	0.001	1.226	1294114	2.20		92.0	824	
D 41 d3-NMeFOSAA										
573.00 > 419.00	4.262	4.262	0.0	1.274	2590308	1.97		78.7	2479	
40 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.262	4.271	-0.009	1.000	862695	1.10		110	165	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.392	4.392	0.0	1.181	2246915	0.9732	Target=4.40	101	804	
599.00 > 99.00	4.392	4.392	0.0	1.181	488680		4.60(2.20-6.59)		1068	
D 46 13C2 PFUnA										
565.00 > 520.00	4.418	4.418	0.0	1.321	4925416	2.41		96.4	6018	
43 Perfluoroundecanoic acid										
563.00 > 519.00	4.418	4.418	0.0	1.000	1548368	1.13	Target=6.35	113	1513	
563.00 > 169.00	4.418	4.418	0.0	1.000	227407		6.81(3.17-9.52)		427	
D 45 d5-NEtFOSAA										
589.00 > 419.00	4.418	4.426	-0.008	1.321	1750504	1.98		79.3	2092	
44 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.427	4.435	-0.008	1.002	597020	1.05		105	921	
D 47 d7-N-MeFOSE-M										
623.00 > 59.00	4.538	4.538	0.0	1.357	1461246	3.45		27.6	1111	
48 2-(N-methylperfluoro-1-octanesul										
616.00 > 59.00	4.555	4.546	0.009	1.004	116774	0.9575		95.7	176	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	4.555	4.555	0.0	1.362	1029540	1.74		69.5	170	
51 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.555	4.555	0.0	1.225	2138368	1.06		113	4624	
50 NMeFOSA										
512.00 > 169.00	4.564	4.564	0.0	1.002	432644	1.01		101	761	
D 53 d9-N-EtFOSE-M										
639.00 > 59.00	4.713	4.713	0.0	1.409	1288751	2.90		23.2	958	
D 56 13C2 PFDoA										
615.00 > 570.00	4.704	4.713	-0.009	1.406	4410152	2.20		87.9	6722	
52 Perfluorododecanoic acid										
613.00 > 569.00	4.704	4.713	-0.009	1.000	1839718	1.13	Target=7.23	113	1541	
613.00 > 169.00	4.704	4.713	-0.009	1.000	244381		7.53(3.61-10.84)		1022	
54 2-(N-ethylperfluoro-1-octanesulf										
630.00 > 59.00	4.732	4.722	0.010	1.004	96414	0.9409		94.1	135	
55 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.723	4.731	-0.008	1.152	475284	1.07		111	2426	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 58 d-N-EtFOSA-M										
531.00 > 169.00	4.741	4.731	0.010		770439	1.25		50.1	475	
57 N-ethylperfluoro-1-octanesulfona										
526.00 > 169.00	4.748	4.740	0.008	1.002	335266	1.09		109	376	
59 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.935	4.944	-0.009	1.327	301440	0.8740	Target=0.98	90.3	475	
699.00 > 99.00	4.935	4.944	-0.009	1.327	314624		0.96(0.49-1.47)		1307	
60 Perfluorotridecanoic acid										
663.00 > 619.00	4.969	4.977	-0.008	1.056	1287219	1.00	Target=5.11	100	2377	
663.00 > 169.00	4.969	4.977	-0.008	1.056	256418		5.02(2.56-7.67)		1169	
D 62 13C2 PFTeDA										
715.00 > 670.00	5.212	5.219	-0.007	1.558	3116596	2.23		89.1	6836	
61 Perfluorotetradecanoic acid										
713.00 > 169.00	5.212	5.219	-0.007	1.000	214631	0.9759	Target=1.26	97.6	952	
713.00 > 219.00	5.212	5.219	-0.007	1.000	159085		1.35(0.63-1.89)		1016	
64 Perfluorohexadecanoic acid										
813.00 > 769.00	5.645	5.652	-0.007	1.000	898994	1.04	Target=4.58	104	2367	
813.00 > 169.00	5.645	5.652	-0.007	1.000	185252		4.85(2.29-6.88)		1300	
D 63 13C2 PFHxDA										
815.00 > 770.00	5.645	5.652	-0.007	1.687	2324633	2.25		89.9	5400	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.048	6.063	-0.015	1.072	789722	1.14	Target=4.25	114	1468	
913.00 > 169.00	6.048	6.063	-0.015	1.072	188852		4.18(2.12-6.37)		1049	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 16:04:47 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_027.d

Injection Date: 11-Sep-2020 13:33:42 Instrument ID: A9

Lims ID: LCSD 320-411226/3-A

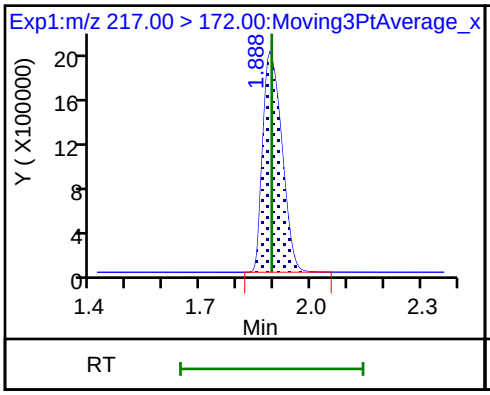
Client ID:

Operator ID: SACINSTRLCMS02 ALS Bottle#: 15 Worklist Smp#: 4

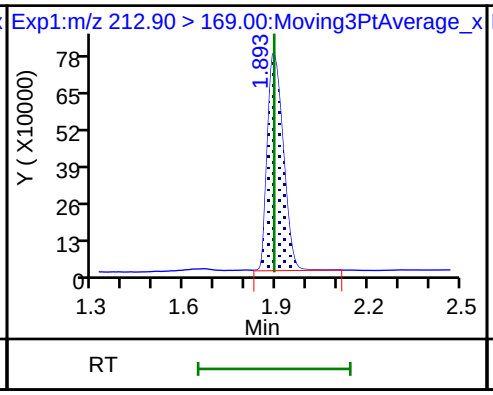
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A9 Limit Group: LC PFC ICAL

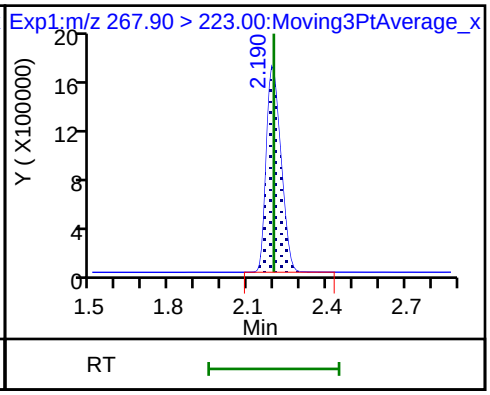
D 1 13C4 PFBA



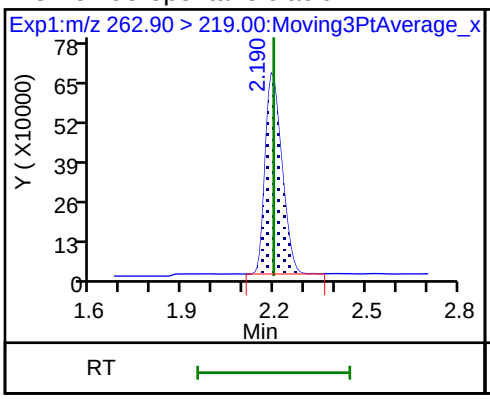
2 Perfluorobutanoic acid



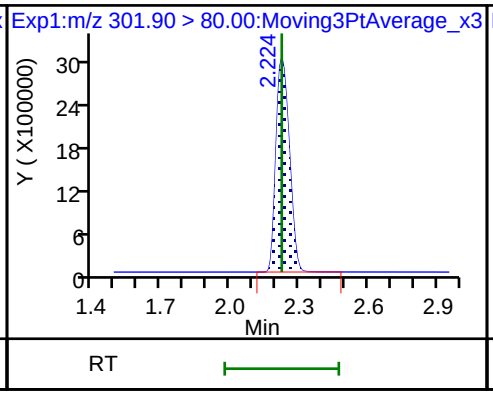
D 4 13C5 PFPeA



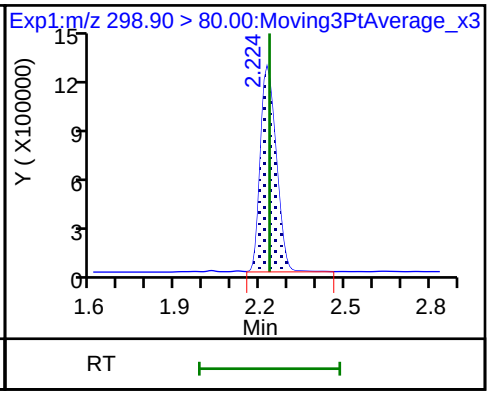
3 Perfluoropentanoic acid



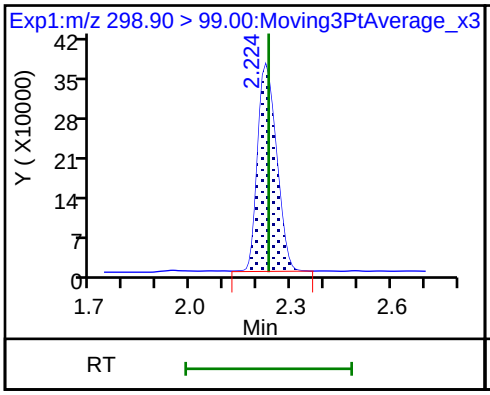
D 6 13C3 PFBS



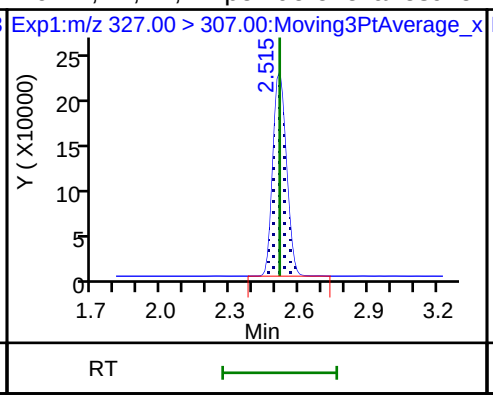
5 Perfluorobutanesulfonic acid



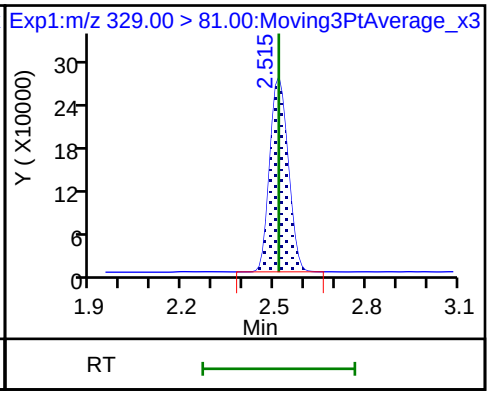
5 Perfluorobutanesulfonic acid



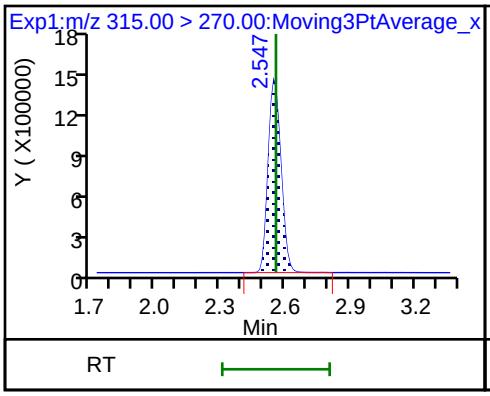
9 1H,1H,2H,2H-perfluorohexanesulfo



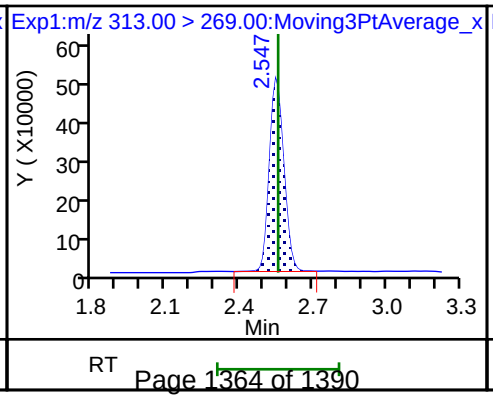
D 8 M2-4:2 FTS



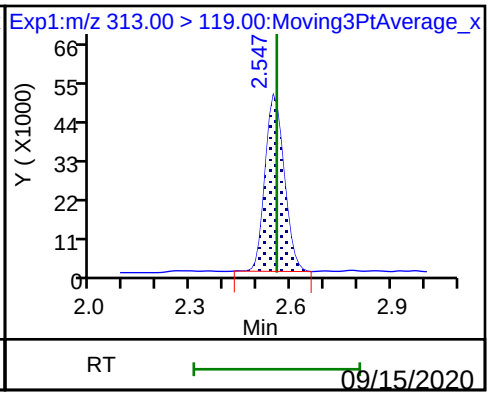
D 10 13C2 PFHxA



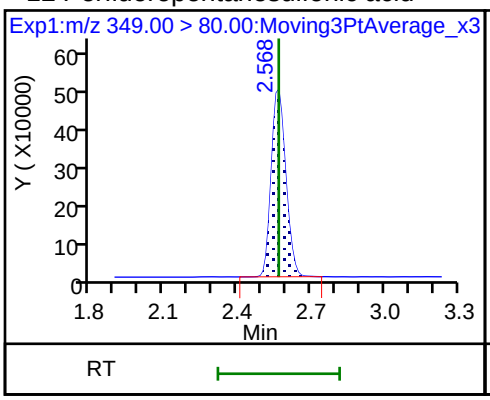
11 Perfluorohexanoic acid



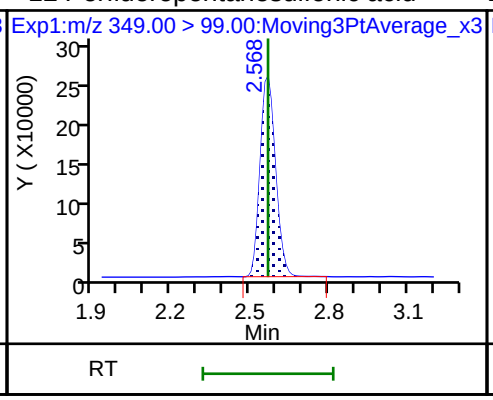
11 Perfluorohexanoic acid



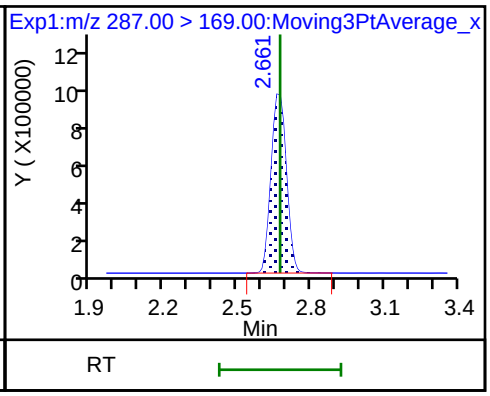
12 Perfluoropentanesulfonic acid



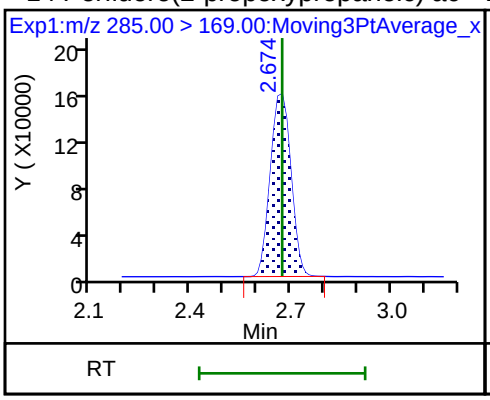
12 Perfluoropentanesulfonic acid



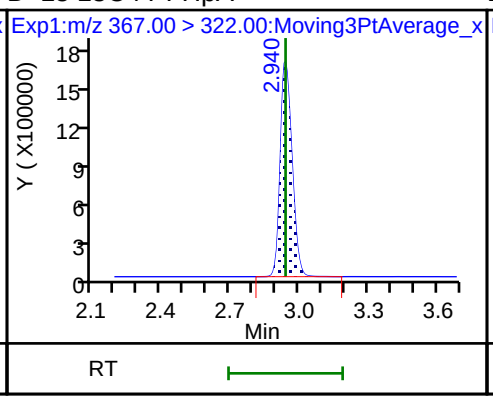
D 13 13C3 HFPO-DA



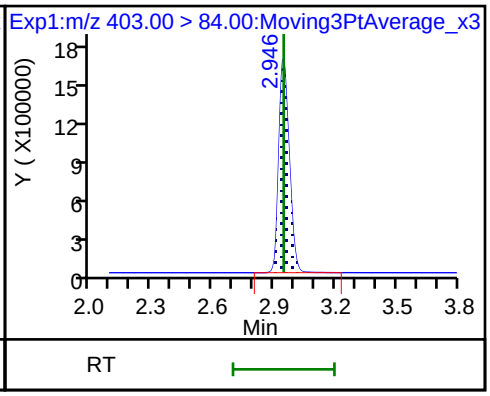
14 Perfluoro(2-propoxypropanoic) ac



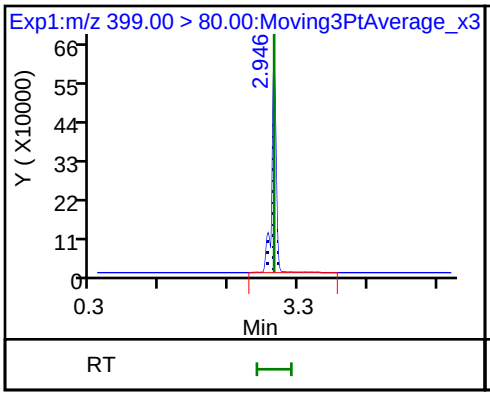
D 15 13C4 PFHpA



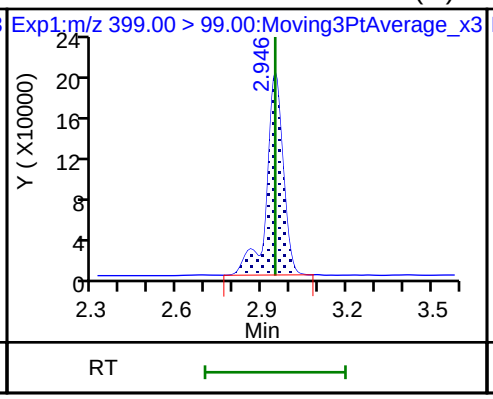
D 17 18O2 PFHxS



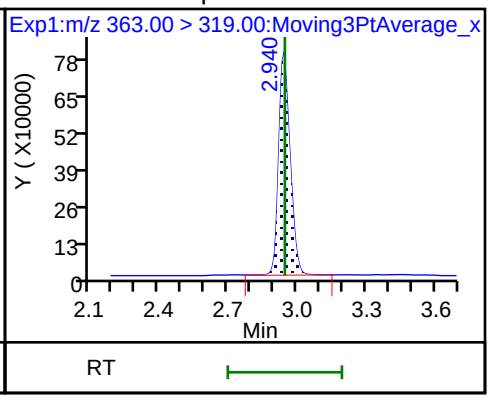
16 Perfluorohexanesulfonic acid



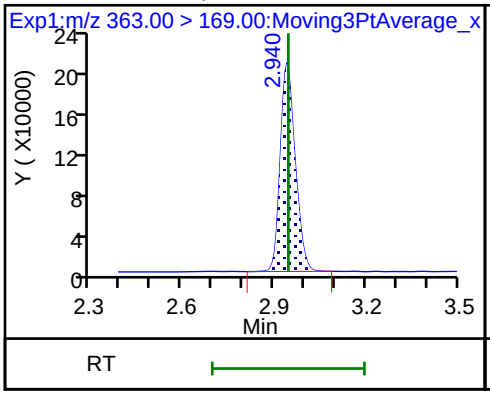
16 Perfluorohexanesulfonic acid (M)



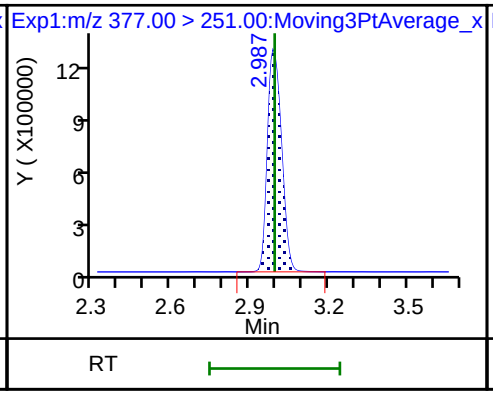
18 Perfluoroheptanoic acid



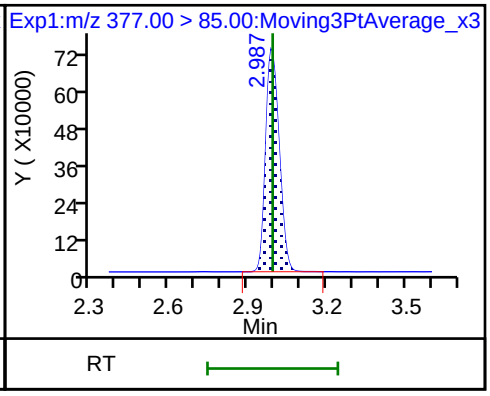
18 Perfluoroheptanoic acid



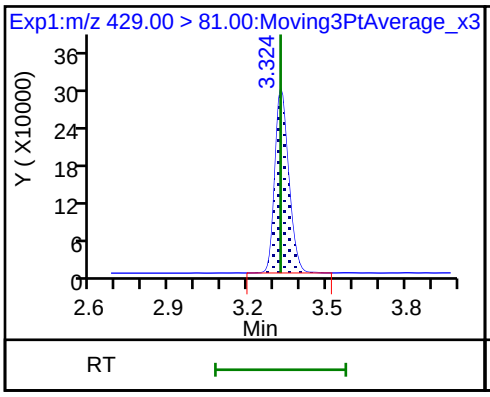
19 DONA



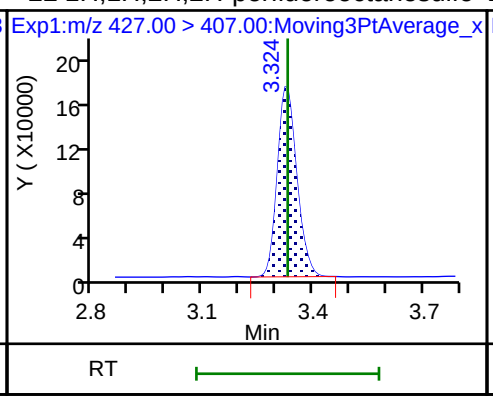
19 DONA



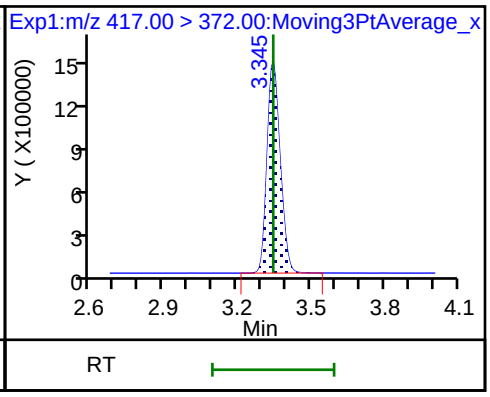
D 20 M2-6:2 FTS



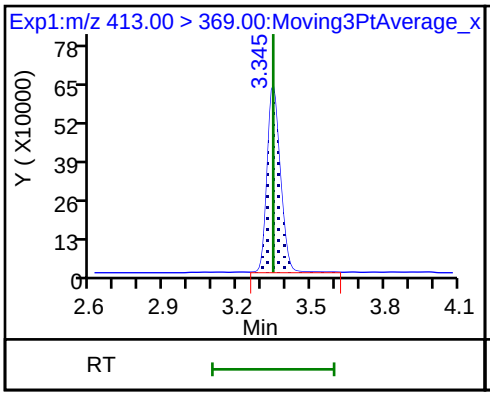
22 1H,1H,2H,2H-perfluorooctanesulfo



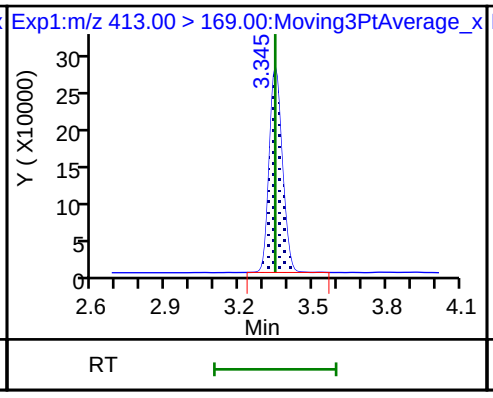
D 26 13C4 PFOA



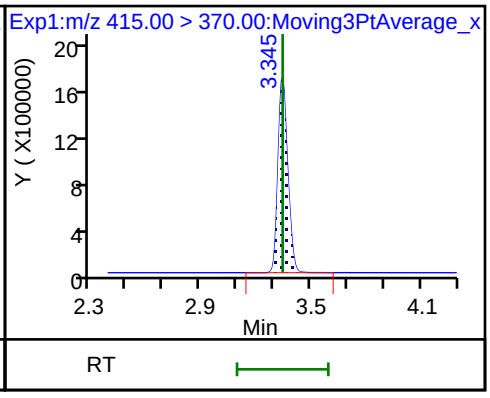
24 Perfluorooctanoic acid



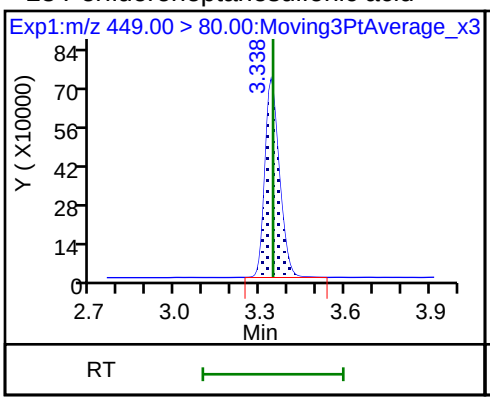
24 Perfluorooctanoic acid



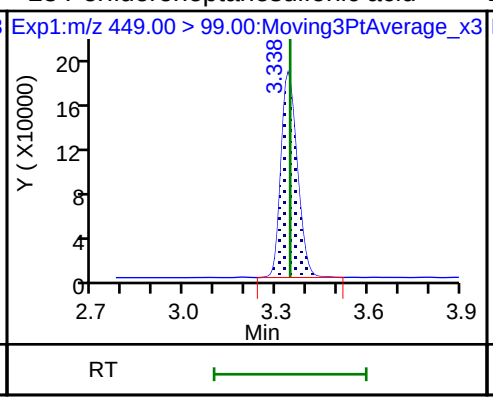
* 25 13C2 PFOA



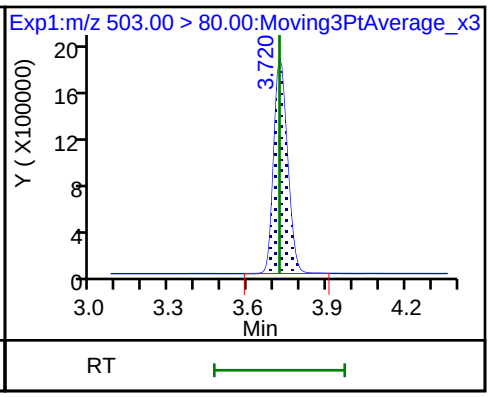
23 Perfluoroheptanesulfonic acid



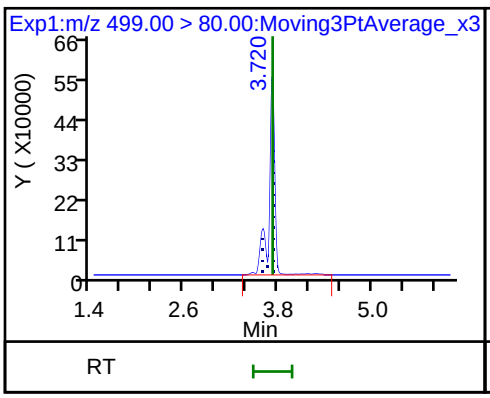
23 Perfluoroheptanesulfonic acid



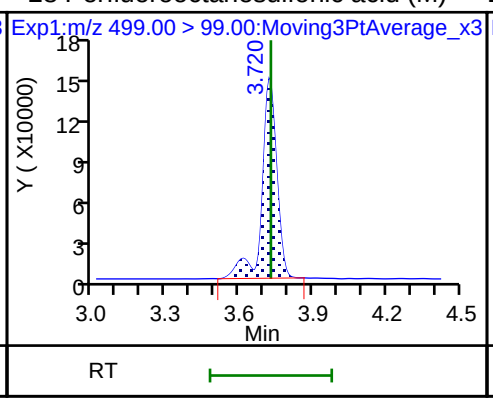
D 31 13C4 PFOS



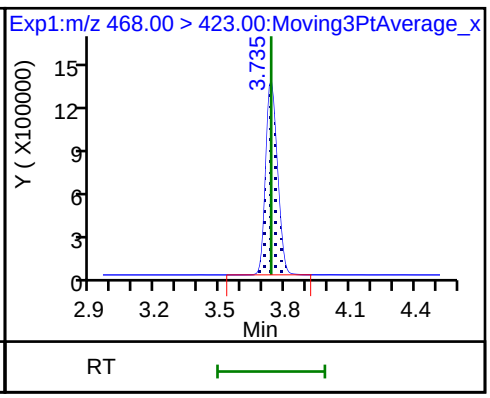
28 Perfluorooctanesulfonic acid



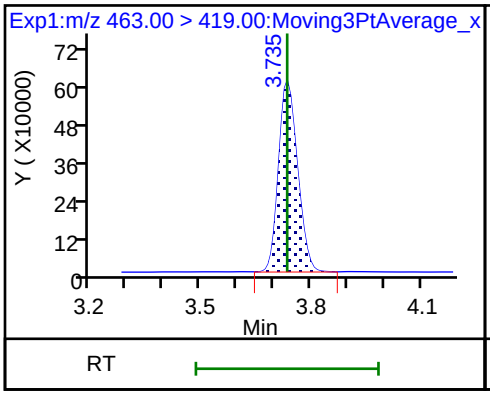
28 Perfluorooctanesulfonic acid (M)



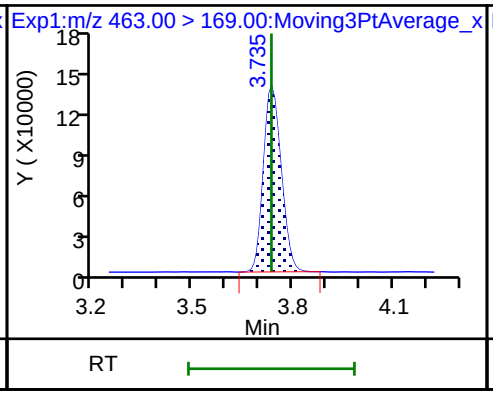
D 29 13C5 PFNA



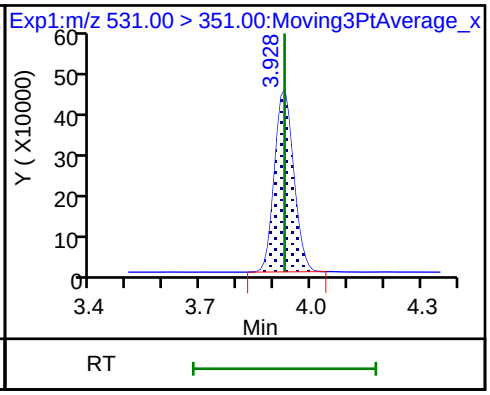
30 Perfluorononanoic acid



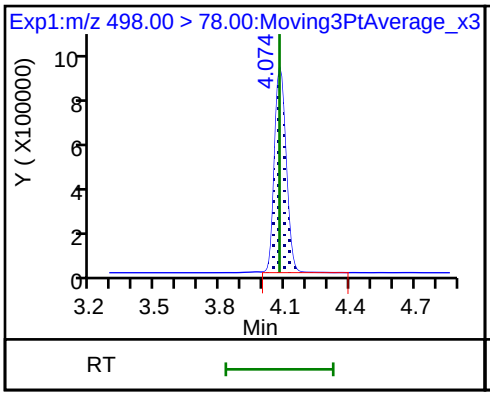
30 Perfluorononanoic acid



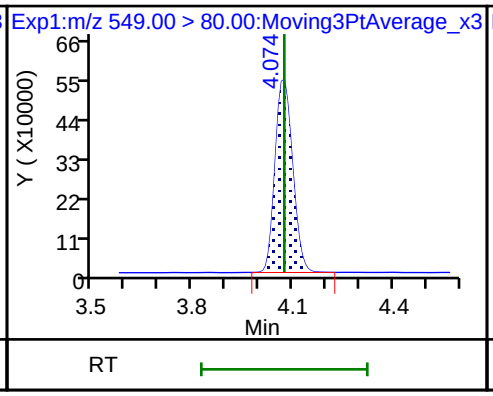
32 9-Chlorohexadecafluoro-3-oxanona



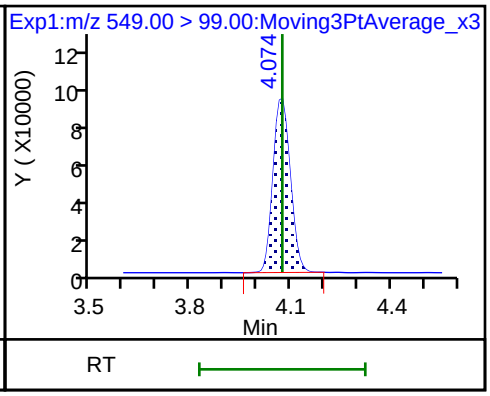
34 Perfluorooctanesulfonamide



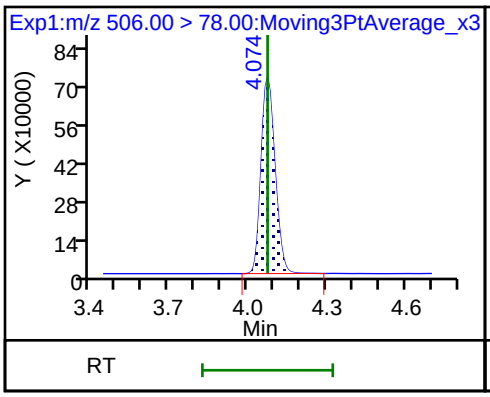
35 Perfluorononanesulfonic acid



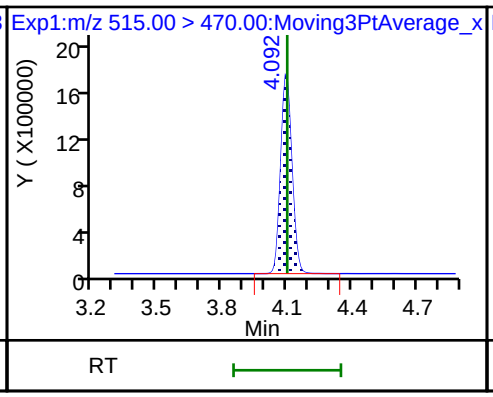
35 Perfluorononanesulfonic acid



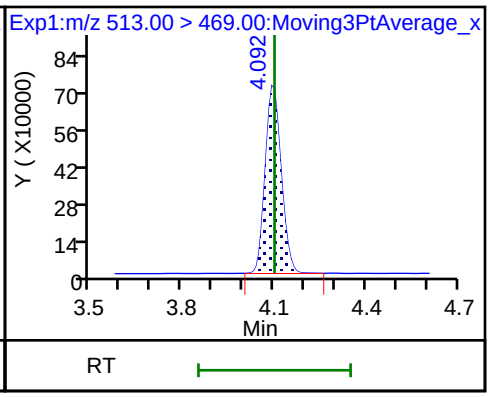
D 36 13C8 FOSA



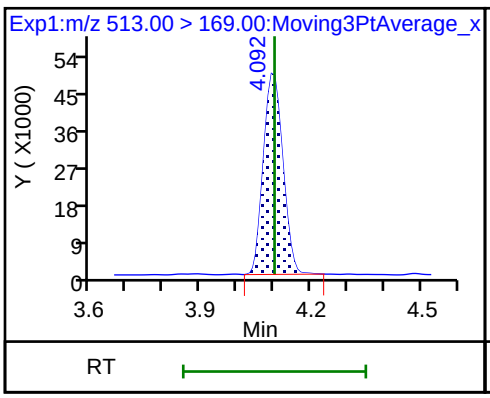
D 33 13C2 PFDA



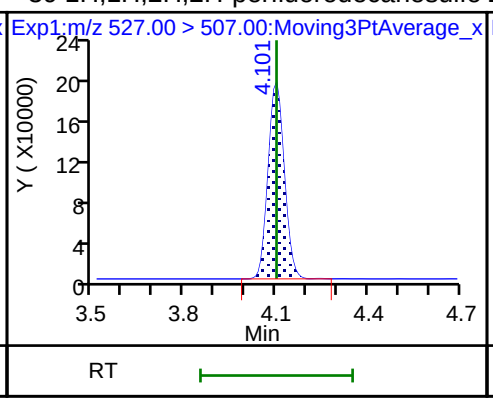
38 Perfluorodecanoic acid



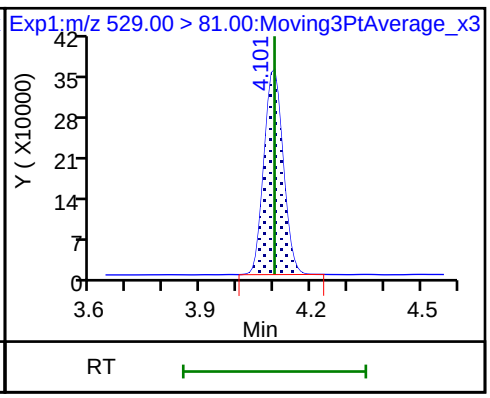
38 Perfluorodecanoic acid



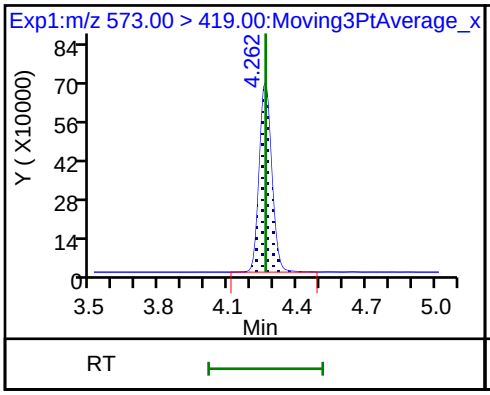
39 1H,1H,2H,2H-perfluorodecanesulfo



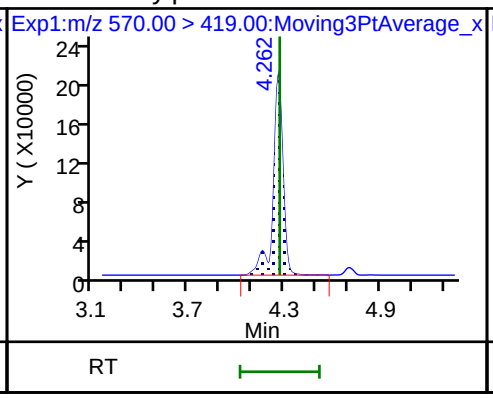
D 37 M2-8:2 FTS



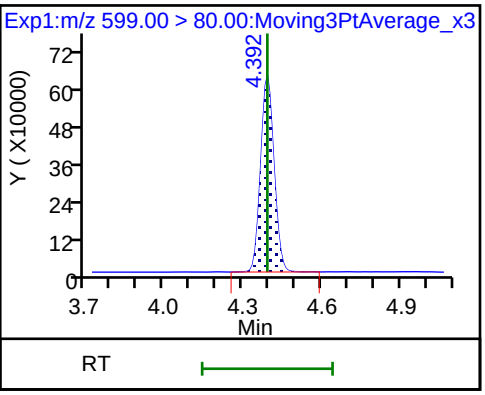
D 41 d3-NMeFOSAA



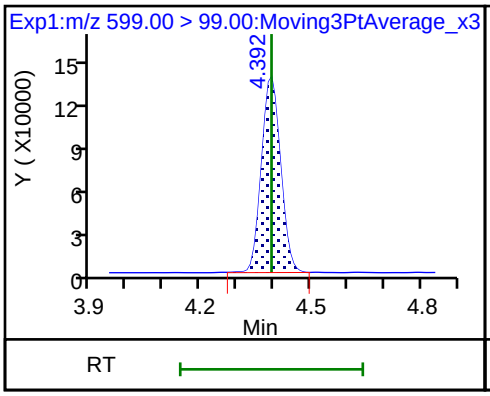
40 N-methylperfluorooctanesulfonami



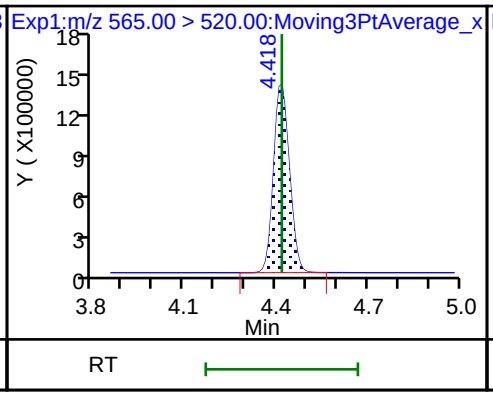
42 Perfluorodecanesulfonic acid



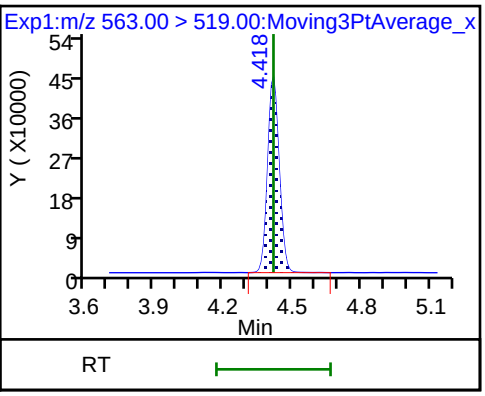
42 Perfluorodecanesulfonic acid



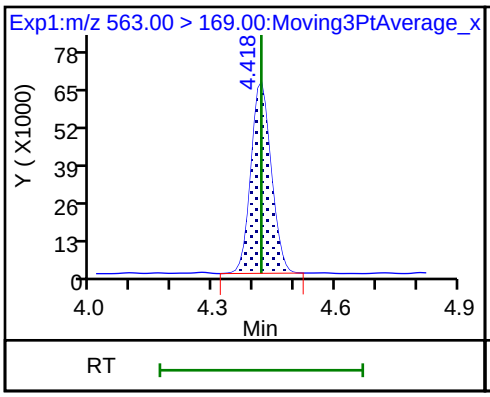
D 46 13C2 PFUnA



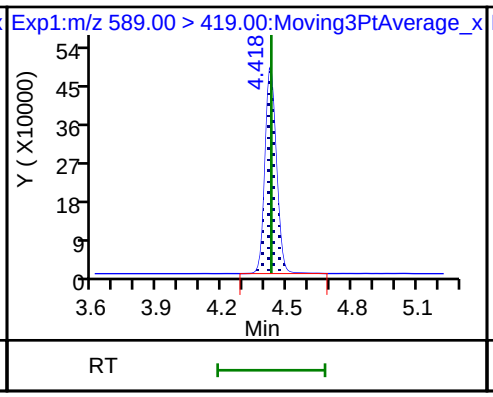
43 Perfluoroundecanoic acid



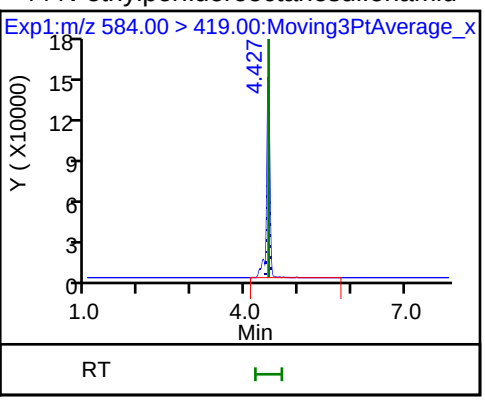
43 Perfluoroundecanoic acid



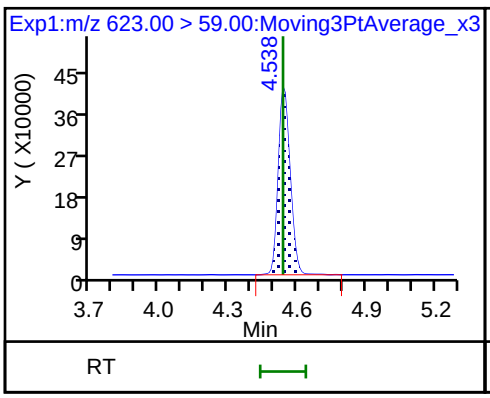
D 45 d5-NEtFOSAA



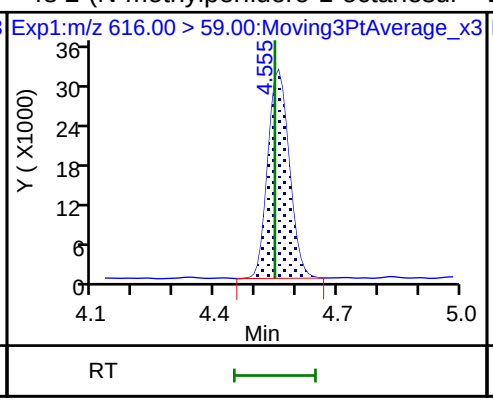
44 N-ethylperfluorooctanesulfonamid



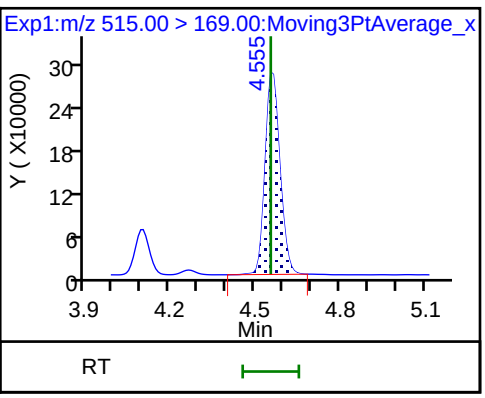
D 47 d7-N-MeFOSE-M



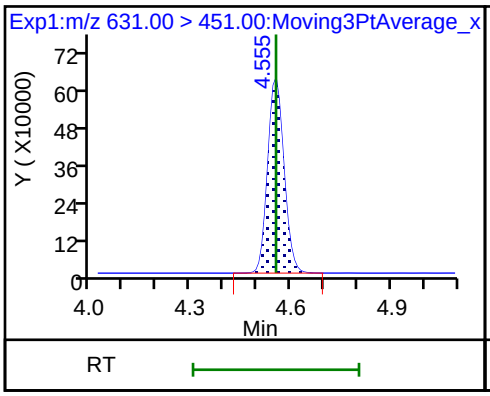
48 2-(N-methylperfluoro-1-octanesul



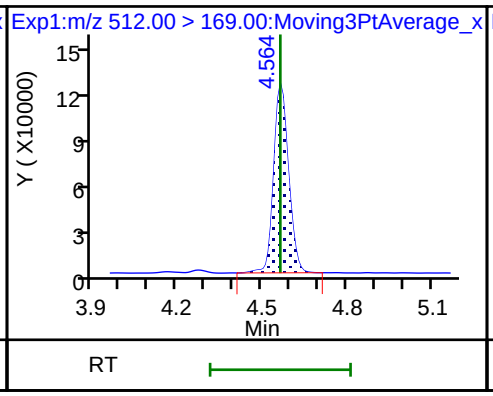
D 49 d-N-MeFOSA-M



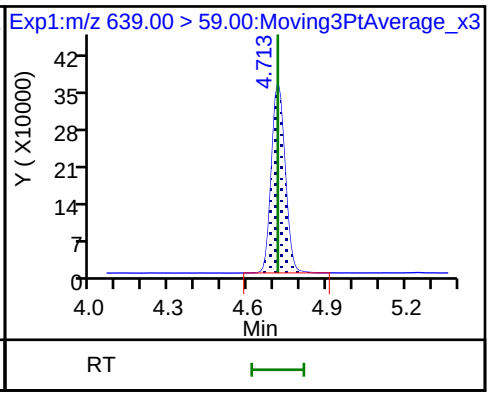
51 11-Chloroeicosafluoro-3-oxaundec



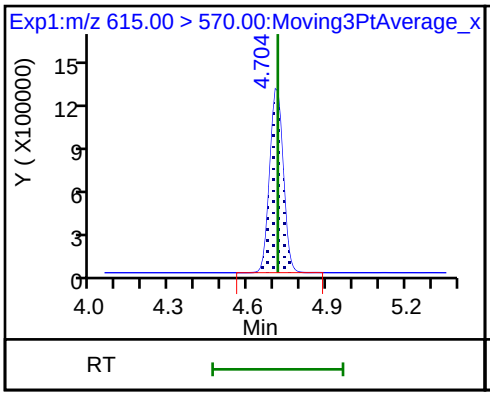
50 NMeFOSA



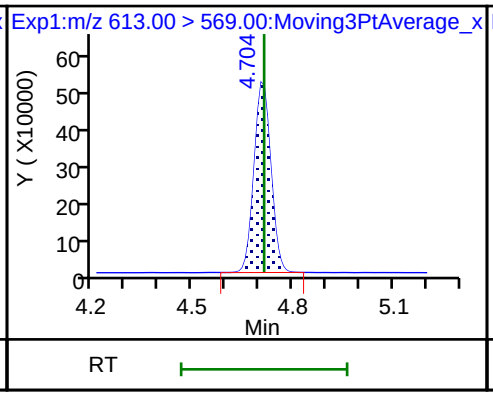
D 53 d9-N-EtFOSE-M



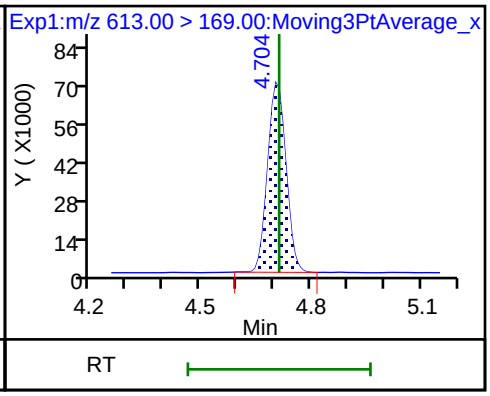
D 56 13C2 PFDoA



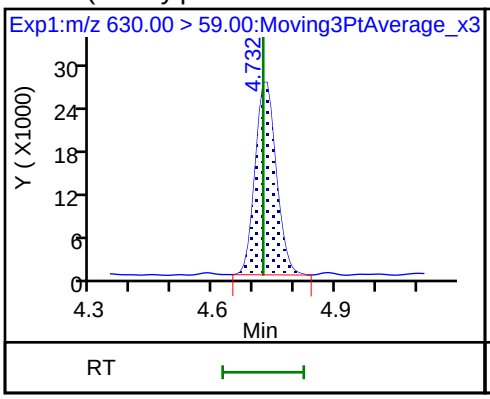
52 Perfluorododecanoic acid



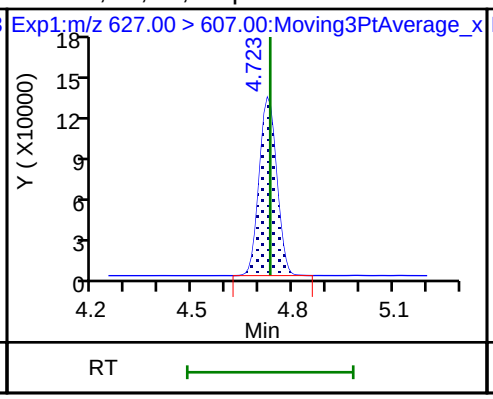
52 Perfluorododecanoic acid



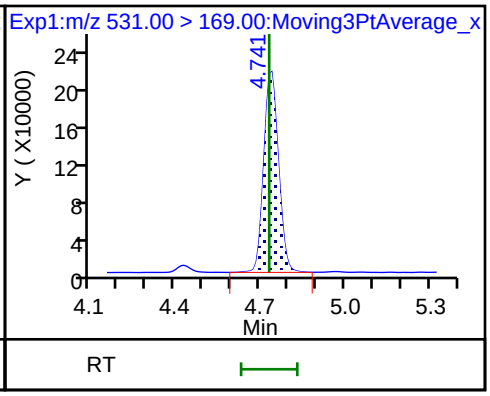
54 2-(N-ethylperfluoro-1-octanesulf



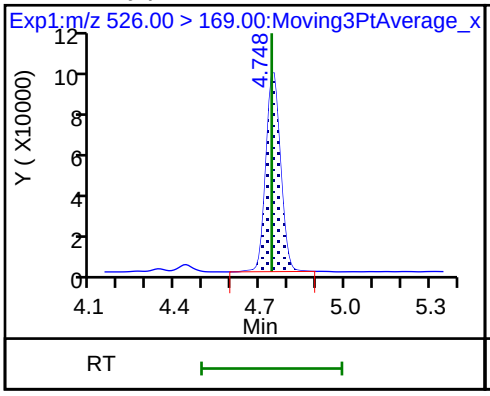
55 1H,1H,2H,2H-perfluorododecanesul



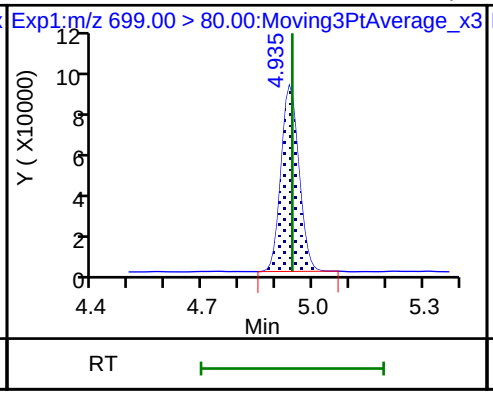
D 58 d-N-EtFOSA-M



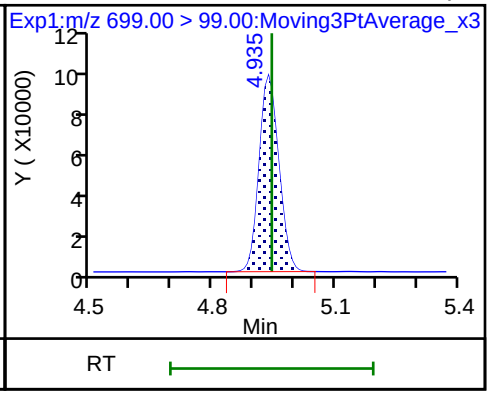
57 N-ethylperfluoro-1-octanesulfona



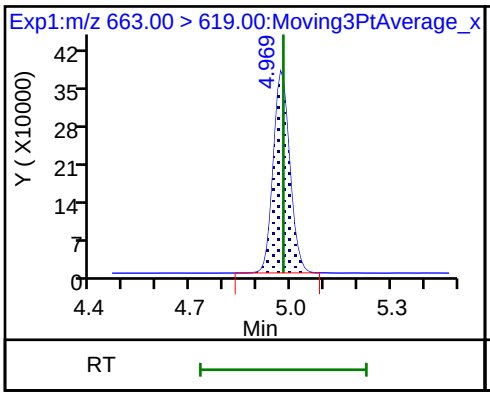
59 Perfluorododecanesulfonic acid (



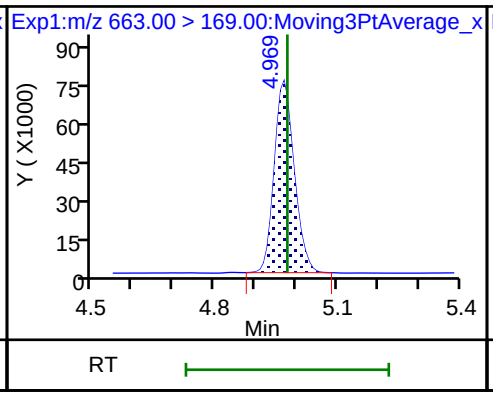
59 Perfluorododecanesulfonic acid (



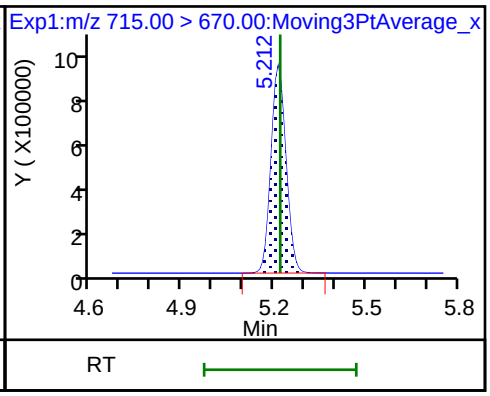
60 Perfluorotridecanoic acid



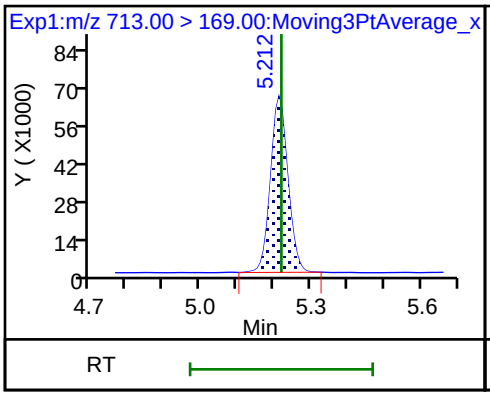
60 Perfluorotridecanoic acid



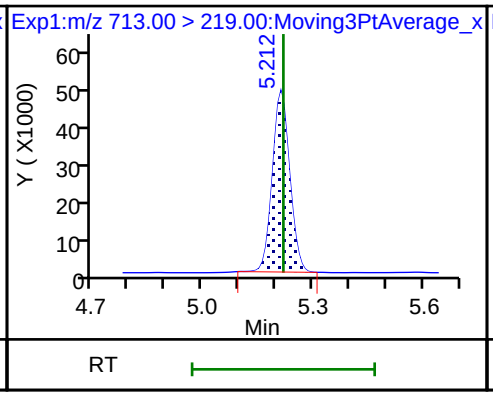
D 62 13C2 PFTeDA



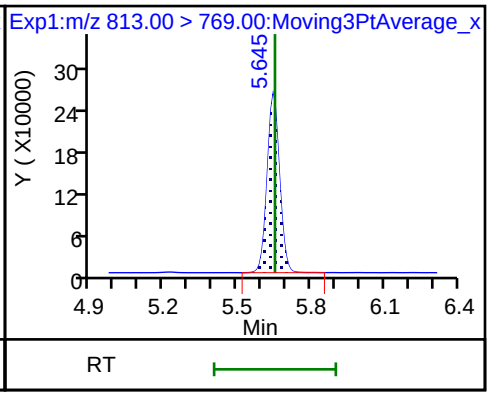
61 Perfluorotetradecanoic acid



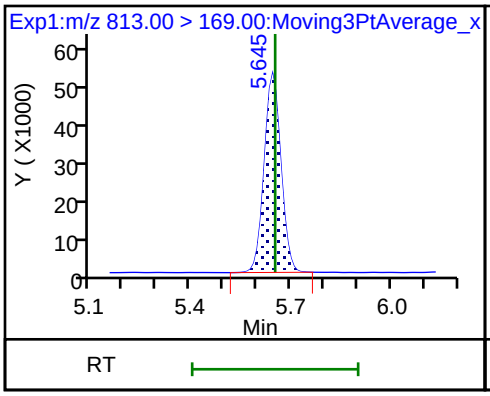
61 Perfluorotetradecanoic acid



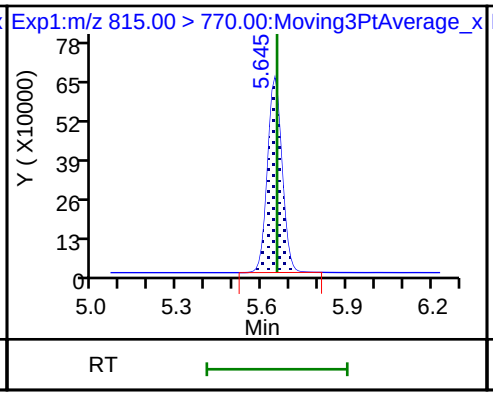
64 Perfluorohexadecanoic acid



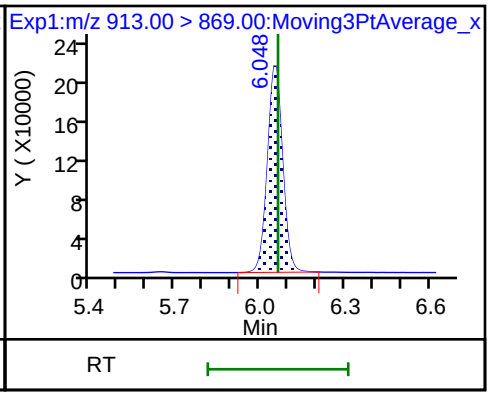
64 Perfluorohexadecanoic acid



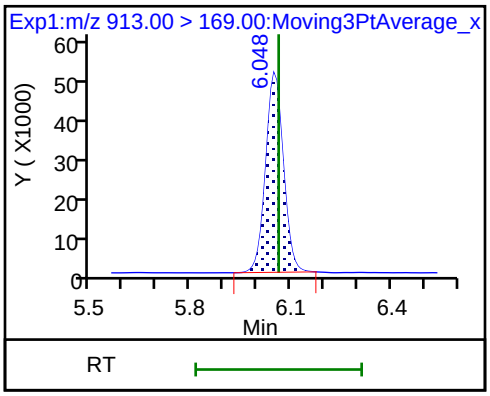
D 63 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

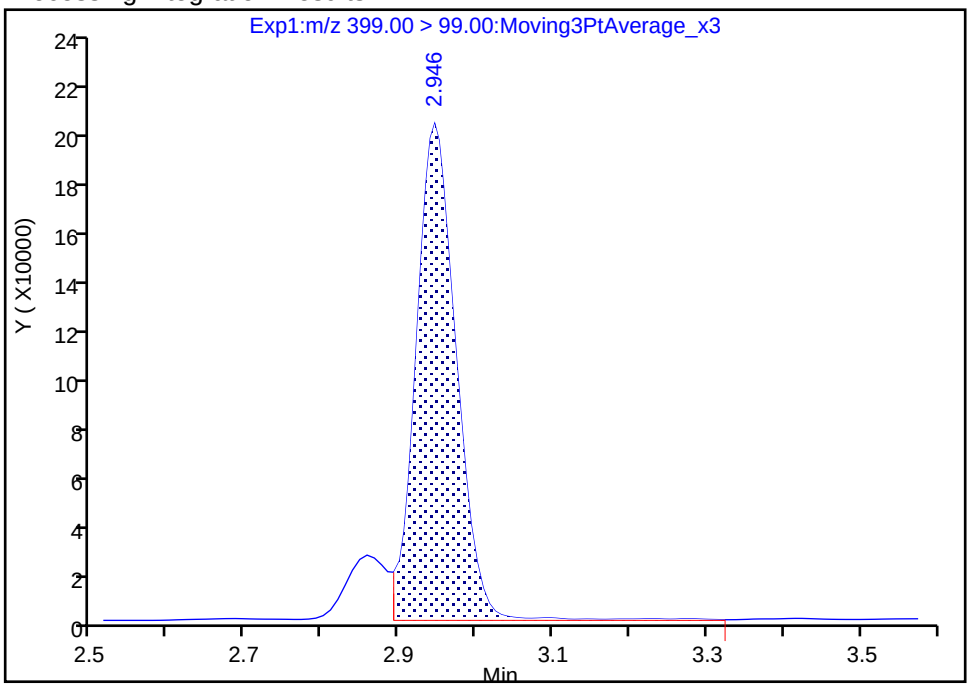
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_027.d				
Injection Date:	11-Sep-2020 13:33:42	Instrument ID:	A9		
Lims ID:	LCSD 320-411226/3-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	15	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

16 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

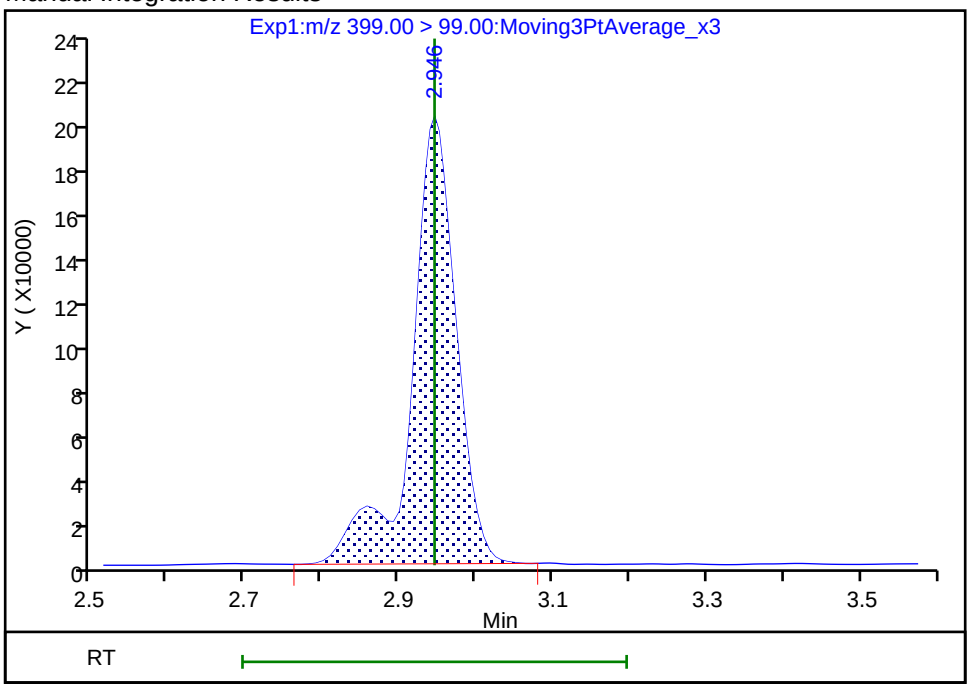
Processing Integration Results

RT: 2.95
Area: 712790
Amount: 0.863017
Amount Units: ng/ml



Manual Integration Results

RT: 2.95
Area: 790034
Amount: 0.863017
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 16:03:31
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

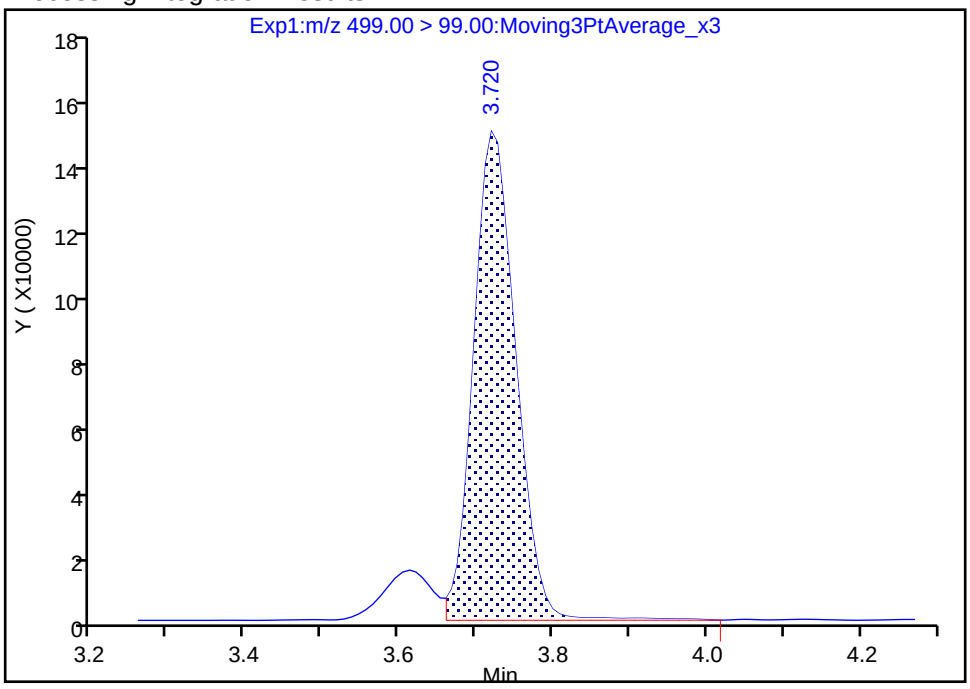
Data File:	\\chromfs\Sacramento\ChromData\A9\20200911-103120.b\2020.09.11_A9_PFC_AA_027.d				
Injection Date:	11-Sep-2020 13:33:42	Instrument ID:	A9		
Lims ID:	LCSD 320-411226/3-A				
Client ID:					
Operator ID:	SACINSTRLCMS02	ALS Bottle#:	15	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A9	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

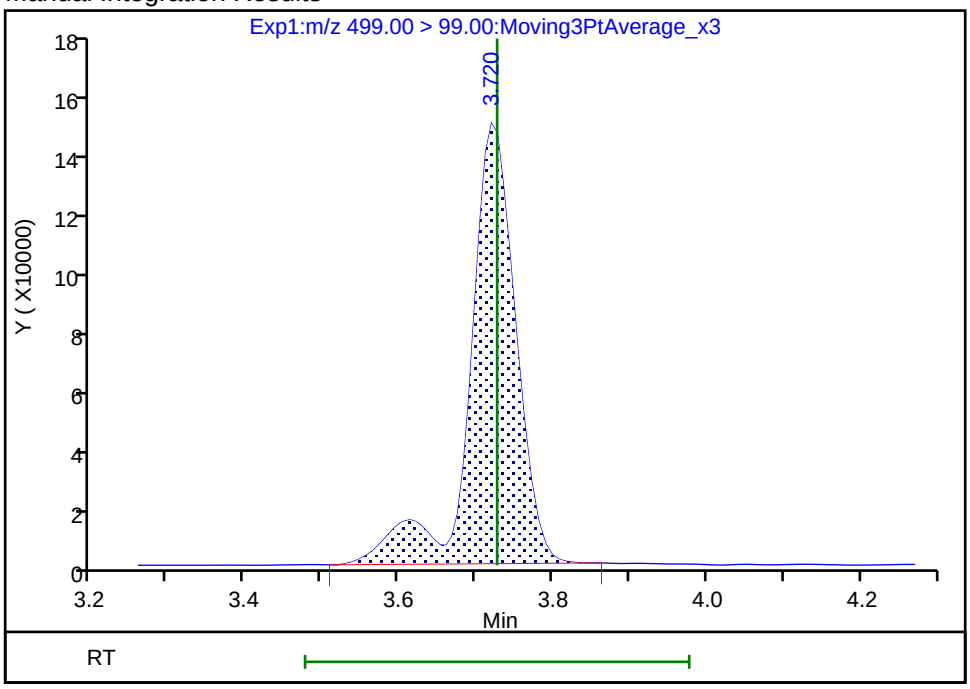
Processing Integration Results

RT: 3.72
Area: 555328
Amount: 0.944633
Amount Units: ng/ml



Manual Integration Results

RT: 3.72
Area: 608953
Amount: 0.944633
Amount Units: ng/ml



Reviewer: zibaa, 11-Sep-2020 16:03:44
Audit Action: Manually Integrated Audit Reason: Isomers

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A18 Start Date: 08/25/2020 16:43

Analysis Batch Number: 406555 End Date: 08/25/2020 18:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-406555/2		08/25/2020 16:43	1	2020.08.25_A18_ ICAL A 011.d	Gemini C18 3x50 3(mm)
IC 320-406555/3		08/25/2020 16:52	1	2020.08.25_A18_ ICAL A 012.d	Gemini C18 3x50 3(mm)
IC 320-406555/4		08/25/2020 17:01	1	2020.08.25_A18_ ICAL A 013.d	Gemini C18 3x50 3(mm)
IC 320-406555/5 ICIS		08/25/2020 17:10	1	2020.08.25_A18_ ICAL A 014.d	Gemini C18 3x50 3(mm)
IC 320-406555/6		08/25/2020 17:19	1	2020.08.25_A18_ ICAL A 015.d	Gemini C18 3x50 3(mm)
IC 320-406555/7		08/25/2020 17:28	1	2020.08.25_A18_ ICAL A 016.d	Gemini C18 3x50 3(mm)
IC 320-406555/8		08/25/2020 17:37	1	2020.08.25_A18_ ICAL A 017.d	Gemini C18 3x50 3(mm)
ICB 320-406555/9		08/25/2020 17:47	1	2020.08.25_A18_ ICAL A 018.d	Gemini C18 3x50 3(mm)
ICV 320-406555/10		08/25/2020 17:56	1	2020.08.25_A18_ ICAL A 019.d	Gemini C18 3x50 3(mm)
ZZZZZ		08/25/2020 18:05	1		Gemini C18 3x50 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A18 Start Date: 09/10/2020 12:35

Analysis Batch Number: 410948 End Date: 09/10/2020 13:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-410948/1		09/10/2020 12:35	1	2020.09.10_A18_PFC AAA 016.d	Gemini C18 3x50 3(mm)
CCVL 320-410948/2		09/10/2020 12:45	1	2020.09.10_A18_PFC AAA 017.d	Gemini C18 3x50 3(mm)
CCV 320-410948/3 CCVIS		09/10/2020 12:54	1	2020.09.10_A18_PFC AAA 018.d	Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 13:03	1		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 13:12	1		Gemini C18 3x50 3(mm)
CCV 320-410948/6		09/10/2020 13:21	1		Gemini C18 3x50 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A18 Start Date: 09/10/2020 15:02

Analysis Batch Number: 411087 End Date: 09/10/2020 17:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-411087/1		09/10/2020 15:02	1	2020.09.10_A18_PFC_A_073.d	Gemini C18 3x50 3(mm)
MB 320-410910/1-A		09/10/2020 15:11	1	2020.09.10_A18_PFC_A_074.d	Gemini C18 3x50 3(mm)
LCS 320-410910/2-A		09/10/2020 15:20	1	2020.09.10_A18_PFC_A_075.d	Gemini C18 3x50 3(mm)
LCSD 320-410910/3-A		09/10/2020 15:29	1	2020.09.10_A18_PFC_A_076.d	Gemini C18 3x50 3(mm)
460-217547-7	FB	09/10/2020 15:38	1	2020.09.10_A18_PFC_A_077.d	Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 15:47	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 15:56	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 16:06	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 16:15	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 16:24	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 16:33	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 16:42	1		Gemini C18 3x50 3(mm)
CCV 320-411087/13		09/10/2020 16:51	1	2020.09.10_A18_PFC_A_085.d	Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 17:00	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/10/2020 17:09	1		Gemini C18 3x50 3(mm)
CCV 320-411087/16		09/10/2020 17:18	1		Gemini C18 3x50 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A18 Start Date: 09/11/2020 10:52

Analysis Batch Number: 411371 End Date: 09/11/2020 12:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-411371/1		09/11/2020 10:52	1	2020.09.11_A18_PFC A 004.d	Gemini C18 3x50 3(mm)
CCVL 320-411371/2		09/11/2020 11:01	1	2020.09.11_A18_PFC A 005.d	Gemini C18 3x50 3(mm)
CCV 320-411371/3 CCVIS		09/11/2020 11:10	1	2020.09.11_A18_PFC A 006.d	Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 11:19	1		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 11:28	50		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 11:37	50		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 11:47	50		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 11:56	50		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 12:05	100		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 12:14	1		Gemini C18 3x50 3(mm)
CCV 320-411371/11		09/11/2020 12:23	1		Gemini C18 3x50 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A18 Start Date: 09/11/2020 12:32

Analysis Batch Number: 411377 End Date: 09/11/2020 13:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-411377/1		09/11/2020 12:32	1	2020.09.11_A18_PFC A 015.d	Gemini C18 3x50 3(mm)
460-217547-1	MW-203	09/11/2020 12:41	1	2020.09.11_A18_PFC A 016.d	Gemini C18 3x50 3(mm)
460-217547-2	MW-204	09/11/2020 12:50	1	2020.09.11_A18_PFC A 017.d	Gemini C18 3x50 3(mm)
460-217547-3	MW-205	09/11/2020 13:00	1	2020.09.11_A18_PFC A 018.d	Gemini C18 3x50 3(mm)
460-217547-5	MW-213	09/11/2020 13:09	1	2020.09.11_A18_PFC A 019.d	Gemini C18 3x50 3(mm)
460-217547-6	DUP	09/11/2020 13:18	1	2020.09.11_A18_PFC A 020.d	Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 13:27	1		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 13:36	1		Gemini C18 3x50 3(mm)
ZZZZZ		09/11/2020 13:45	1		Gemini C18 3x50 3(mm)
CCV 320-411377/10		09/11/2020 13:54	1	2020.09.11_A18_PFC A 024.d	Gemini C18 3x50 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A9 Start Date: 09/10/2020 10:18

Analysis Batch Number: 410935 End Date: 09/10/2020 12:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-410935/2		09/10/2020 10:18	1	2020.09.10_A9_PFC_ICAL_A_016.d	Acquity 2.1(mm)
IC 320-410935/3		09/10/2020 10:27	1	2020.09.10_A9_PFC_ICAL_A_017.d	Acquity 2.1(mm)
IC 320-410935/4		09/10/2020 10:37	1	2020.09.10_A9_PFC_ICAL_A_018.d	Acquity 2.1(mm)
IC 320-410935/5 ICIS		09/10/2020 10:46	1	2020.09.10_A9_PFC_ICAL_A_019.d	Acquity 2.1(mm)
IC 320-410935/6		09/10/2020 10:55	1	2020.09.10_A9_PFC_ICAL_A_020.d	Acquity 2.1(mm)
IC 320-410935/7		09/10/2020 11:05	1	2020.09.10_A9_PFC_ICAL_A_021.d	Acquity 2.1(mm)
ZZZZZ		09/10/2020 11:14	1		Acquity 2.1(mm)
ZZZZZ		09/10/2020 11:42	1		Acquity 2.1(mm)
IC 320-410935/13		09/10/2020 12:29	1	2020.09.10_A9_PFC_ICAL_AA_022.d	Acquity 2.1(mm)
ICB 320-410935/14		09/10/2020 12:38	1	2020.09.10_A9_PFC_ICAL_AA_023.d	Acquity 2.1(mm)
ICV 320-410935/15		09/10/2020 12:48	1	2020.09.10_A9_PFC_ICAL_AA_024.d	Acquity 2.1(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A9 Start Date: 09/11/2020 09:30

Analysis Batch Number: 411300 End Date: 09/11/2020 10:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-411300/1		09/11/2020 09:30	1	2020.09.11_A9_PFC_AA_004.d	Acquity 2.1(mm)
CCVL 320-411300/2		09/11/2020 09:40	1	2020.09.11_A9_PFC_AA_005.d	Acquity 2.1(mm)
CCV 320-411300/3 CCVIS		09/11/2020 09:49	1	2020.09.11_A9_PFC_AA_006.d	Acquity 2.1(mm)
ZZZZZ		09/11/2020 10:36	1		Acquity 2.1(mm)
CCV 320-411300/9		09/11/2020 10:54	1		Acquity 2.1(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217547-1

SDG No.:

Instrument ID: A9 Start Date: 09/11/2020 13:05

Analysis Batch Number: 411454 End Date: 09/11/2020 15:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-411454/1		09/11/2020 13:05	1	2020.09.11_A9_PFC_AA_024.d	Acquity 2.1(mm)
MB 320-411226/1-A		09/11/2020 13:14	1	2020.09.11_A9_PFC_AA_025.d	Acquity 2.1(mm)
LCS 320-411226/2-A		09/11/2020 13:24	1	2020.09.11_A9_PFC_AA_026.d	Acquity 2.1(mm)
LCSD 320-411226/3-A		09/11/2020 13:33	1	2020.09.11_A9_PFC_AA_027.d	Acquity 2.1(mm)
ZZZZZ		09/11/2020 13:43	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 13:52	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 14:01	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 14:11	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 14:20	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 14:29	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 14:39	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 14:48	1		Acquity 2.1(mm)
CCV 320-411454/13		09/11/2020 14:57	1	2020.09.11_A9_PFC_AA_036.d	Acquity 2.1(mm)
ZZZZZ		09/11/2020 15:07	1		Acquity 2.1(mm)
ZZZZZ		09/11/2020 15:16	1		Acquity 2.1(mm)
460-217547-4	MW-206	09/11/2020 15:25	1	2020.09.11_A9_PFC_AA_039.d	Acquity 2.1(mm)
ZZZZZ		09/11/2020 15:35	1		Acquity 2.1(mm)
CCV 320-411454/18		09/11/2020 15:44	1	2020.09.11_A9_PFC_AA_041.d	Acquity 2.1(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 460-217547-1

SDG No.:

Batch Number: 410910 Batch Start Date: 09/09/20 18:52 Batch Analyst: Pham, Vince

Batch Method: 3535 Batch End Date: 09/10/20 01:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_IDA 00243	LCPFC-IS 00481
MB 320-410910/1		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCS 320-410910/2		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCSD 320-410910/3		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
460-217547-E-1	MW-203	3535, 537 (modified)	T	276.45 g	26.72 g	249.7 mL	10.00 mL	500 uL	500 uL
460-217547-E-2	MW-204	3535, 537 (modified)	T	282.89 g	27.16 g	255.7 mL	10.00 mL	500 uL	500 uL
460-217547-E-3	MW-205	3535, 537 (modified)	T	278.57 g	26.99 g	251.6 mL	10.00 mL	500 uL	500 uL
460-217547-E-5	MW-213	3535, 537 (modified)	T	293.01 g	27.32 g	265.7 mL	10.00 mL	500 uL	500 uL
460-217547-E-6	DUP	3535, 537 (modified)	T	277.28 g	26.44 g	250.8 mL	10.00 mL	500 uL	500 uL
460-217547-D-7	FB	3535, 537 (modified)	T	281.38 g	26.91 g	254.5 mL	10.00 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00328	AnalysisComment				
MB 320-410910/1		3535, 537 (modified)							
LCS 320-410910/2		3535, 537 (modified)		500 uL					
LCSD 320-410910/3		3535, 537 (modified)		500 uL					
460-217547-E-1	MW-203	3535, 537 (modified)	T						
460-217547-E-2	MW-204	3535, 537 (modified)	T						
460-217547-E-3	MW-205	3535, 537 (modified)	T						
460-217547-E-5	MW-213	3535, 537 (modified)	T		Cloudy at FV.				
460-217547-E-6	DUP	3535, 537 (modified)	T		Cloudy at FV.				
460-217547-D-7	FB	3535, 537 (modified)	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 460-217547-1

SDG No.:

Batch Number: 410910 Batch Start Date: 09/09/20 18:52 Batch Analyst: Pham, Vince

Batch Method: 3535 Batch End Date: 09/10/20 01:50

Batch Notes	
Balance ID	QA-081
Batch Comment	Eurofins label ID matches client label. VP 9/09/20. Centrifuge tube #18720040
First End time	09/10/2020 01:50
H2O ID	9/08/20
Hexane ID	2122754
Manifold ID	BQ, BS
Methanol ID	2138290
Sodium Hydroxide ID	2141971
Pipette/Syringe/Dispenser ID	R10872I
Analyst ID - Reagent Drop	VP
Analyst ID - IS Reagent Drop	VP
Analyst ID - IS Reagent Drop Witness	JER
Solvent Lot #	2140105
Solvent Name	0.3% NH4OH/MeOH
SPE Cartridge Lot ID	005730044a
SPE Cartridge Type	Oasis WAX 500mg
First Start time	09/09/2020 18:52

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 460-217547-1

SDG No.:

Batch Number: 411226 Batch Start Date: 09/10/20 18:32 Batch Analyst: Vue, Pheng

Batch Method: 3535 Batch End Date: 09/10/20 23:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_IDA 00244	LCPFC-IS 00475
MB 320-411226/1		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCS 320-411226/2		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCSD 320-411226/3		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
460-217547-D-4	MW-206	3535, 537 (modified)	T	309.80 g	26.1 g	283.7 mL	10.00 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00328	AnalysisComment				
MB 320-411226/1		3535, 537 (modified)							
LCS 320-411226/2		3535, 537 (modified)		500 uL					
LCSD 320-411226/3		3535, 537 (modified)		500 uL					
460-217547-D-4	MW-206	3535, 537 (modified)	T		Clogged. Remaining sample + bottle = 83.04 g				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 460-217547-1

SDG No.:

Batch Number: 411226 Batch Start Date: 09/10/20 18:32 Batch Analyst: Vue, Pheng

Batch Method: 3535 Batch End Date: 09/10/20 23:59

Batch Notes	
Balance ID	QA-078
Batch Comment	Client labels match Eurofins/TA labels. PV 09/10/20. Centrifuge tube # 191203058
First End time	09/10/2020 23:59
H2O ID	9/09/20
Hexane ID	2140960
Manifold ID	BQ
Methanol ID	2147931
Sodium Hydroxide ID	2141970
Pipette/Syringe/Dispenser ID	J38488I
Analyst ID - Reagent Drop	PV
Analyst ID - IS Reagent Drop	PV
Analyst ID - IS Reagent Drop Witness	FX
Solvent Lot #	2140105
Solvent Name	0.3% NH4OH/MeOH
SPE Cartridge Lot ID	005730044a
SPE Cartridge Type	Oasis WAX 500mg
First Start time	09/10/2020 18:32

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record 449256

eurofins | Environment Testing TestAmerica

Address: 5 Grossinger Dr, Liberty, NY

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NY Cat B

TAL-8210

Client Contact	Project Manager: Fred Dahan	Site Contact: Jon Stuan	Date:	COC No:
Company Name: SESI	Tel/Email: fd@sesi.org	Lab Contact: Omayra Ponce	Carrier:	1 of 1 COCs
Address: 12a Maple Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Pine Brook, NJ	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 973 808 9050	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks ☒ 1 week Standard ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Grossingers				Job / SDG No.: 21754
Site:				
PO# 9313 Phase 10				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOCs	PFAS (537.1)	Sample Specific Notes:
MW-203	9/2/20	1300	Grab	GW	5	N	N	X	X	1
MW-204		1130								2
MW-205		1240								3
MW-206		1040								4
MW-213		940								5
Dup										6
FB		1430		DI	4					7
TB	9/1/20				2	N	N	X		8

SUB WORK

5-Day RUSH

460-217547 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	SESI	9/3/20		ETA	9/3/20 1035
Relinquished by:	ETA	9/3/20 1645		TAL	9/3/20 1645
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

WO LS Fred 1-3,4

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09/15/2020

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 217847

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.4 °C	3.4 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: M Date: 9-3-2020

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Penas, Omayra	Carrier Tracking No(s):	COC No: 460-59373.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Omayra.Penas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-217547-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/10/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Grossingers	Project #: 46021703			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes) SAC	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-203 (460-217547-1)	9/2/20	13:00 Eastern		Water			X	2	
MW-204 (460-217547-2)	9/2/20	11:30 Eastern		Water			X	2	
MW-205 (460-217547-3)	9/2/20	12:40 Eastern		Water			X	2	
MW-206 (460-217547-4)	9/2/20	10:40 Eastern		Water			X	2	
MW-213 (460-217547-5)	9/2/20	09:40 Eastern		Water			X	2	
DUP (460-217547-6)	9/2/20	Eastern		Water			X	2	
FB (460-217547-7)	9/2/20	14:30 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/8/20 1900	EAEI		09/09/20 10:40	ETA-SAC
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: DB: 1.0 CORR: 0.5

Ver: 01/16/2019

•(2/2)-RED DISCOLORATION-dB 09/09/20

Login Sample Receipt Checklist

Client: SESI Consulting Engineers

Job Number: 460-217547-1

Login Number: 217547
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SESI Consulting Engineers

Job Number: 460-217547-1

Login Number: 217547
List Number: 2
Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento
List Creation: 09/09/20 01:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	ob: 1.0c corr: 0.5c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

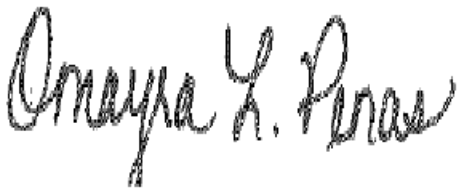
ANALYTICAL REPORT

Job Number: 460-217659-1

Job Description: Grossingers

For:
SESI Consulting Engineers
12 A Maple Avenue
Building B
Pine Brook, NJ 07058

Attention: Fuad Dahan



Approved for release.
Omayra Penas
Senior Project Manager
9/11/2020 1:11 PM

Omayra Penas, Senior Project Manager
777 New Durham Road, Edison, NJ, 08817
(732)593-2538
Omayra.Penas@Eurofinset.com
09/11/2020

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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CASE NARRATIVE

Client: SESI Consulting Engineers

Project: Grossingers

Report Number: 460-217659-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 09/04/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.4 C.

Per laboratory policy, the Trip Blank (460-217659-9) sample date/time was changed to reflect the latest sample date/time of the sampling event.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples MW-201 (460-217659-1), MW-207 (460-217659-2), MW-210 (460-217659-3), MW-211 (460-217659-4), MW-214 (460-217659-5), MW-216 (460-217659-6), MW-217 (460-217659-7), FB (460-217659-8) and TB (460-217659-9) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 09/08/2020 and 09/09/2020.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: FB (460-217659-8), (LCS 460-722587/4) and (MB 460-722587/8). These results have been reported and qualified.

The continuing calibration verification (CCV) analyzed in batch 460-722587 was outside the method criteria for 1,2-Dichloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-722587 recovered outside the lower control limit for 1,2-Dichloroethane. The associated sample data have been flagged and reported.

The continuing calibration verification (CCV) analyzed in batch 460-722587 was outside the method criteria for 1,2-Dichloroethane-d4 (Surr) (bias low).

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)
Samples MW-201 (460-217659-1), MW-207 (460-217659-2), MW-210 (460-217659-3), MW-211 (460-217659-4), MW-214 (460-217659-5), MW-216 (460-217659-6), MW-217 (460-217659-7) and FB (460-217659-8) were analyzed for Per- and Polyfluoroalkyl Substances (PFAS) in accordance with PFC. The samples were prepared on 09/09/2020 and analyzed on 09/10/2020.

The transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte

has some degree of uncertainty. However, analyst judgment was used to positively identify the analytes.
MW-210 (460-217659-3).

Perfluorobutanoic acid (PFBA) and Perfluorohexanesulfonic acid (PFHxS) were detected in method blank MB 320-410906/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No other difficulties were encountered during the PFAS analysis.

All other quality control parameters were within the acceptance limits.

Sample Summary

Client: SESI Consulting Engineers
Job ID: 460-217659-1
Project/Site: Grossingers

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-217659-1	MW-201	Water	09/03/20 09:10	09/04/20 16:25	
460-217659-2	MW-207	Water	09/03/20 11:10	09/04/20 16:25	
460-217659-3	MW-210	Water	09/03/20 10:35	09/04/20 16:25	
460-217659-4	MW-211	Water	09/03/20 14:00	09/04/20 16:25	
460-217659-5	MW-214	Water	09/03/20 09:30	09/04/20 16:25	
460-217659-6	MW-216	Water	09/03/20 13:30	09/04/20 16:25	
460-217659-7	MW-217	Water	09/03/20 12:35	09/04/20 16:25	
460-217659-8	FB	Water	09/03/20 15:00	09/04/20 16:25	
460-217659-9	TB	Water	09/03/20 15:00	09/04/20 16:25	

Detection Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Client Sample ID: MW-201 — Lab Sample ID: 460-217659-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.44	J	1.0	0.40	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.51	J B	1.88	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.33	J B	1.88	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.57	J	1.88	0.51	ng/L	1		537 (modified)	Total/NA
6:2 FTS	11.0	J	18.8	1.88	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-207 — Lab Sample ID: 460-217659-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.41	J	1.0	0.40	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	1.93	B	1.87	0.33	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.79	J	1.87	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.91	J	1.87	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.94	J	1.87	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.46		1.87	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.61	J	1.87	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.39	J	1.87	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.87	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.92	B	1.87	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.87	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22.1		1.87	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-210 — Lab Sample ID: 460-217659-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.54	J B	2.01	0.35	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.60	J	2.01	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.73	J	2.01	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.32		2.01	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.10	J	2.01	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.02	J B	2.01	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.56	cn	2.01	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.36	J	2.01	0.35	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-211 — Lab Sample ID: 460-217659-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.72	J B	1.99	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.87	J	1.99	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.41	J	1.99	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.56	J B	1.99	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.75	J	1.99	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.35	J	1.99	0.35	ng/L	1		537 (modified)	Total/NA
6:2 FTS	5.28	J	19.9	1.99	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-214 — Lab Sample ID: 460-217659-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	16		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	5.1		1.0	0.32	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	9.76	B	2.07	0.36	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.50		2.07	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-214 (Continued) — Lab Sample ID: 460-217659-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	6.65		2.07	0.60	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.08		2.07	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	25.8		2.07	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.41	J	2.07	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.42	J	2.07	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.32		2.07	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.44	B	2.07	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.75	J	2.07	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	46.6		2.07	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	2.04	J	2.07	0.36	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-216 — Lab Sample ID: 460-217659-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.9		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	6.9		1.0	0.32	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	4.37	B	1.83	0.32	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.52		1.83	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.62		1.83	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.88		1.83	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.39		1.83	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.73	J	1.83	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.34	J	1.83	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.19	J	1.83	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.96	B	1.83	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	24.8		1.83	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.06	J	1.83	0.32	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-217 — Lab Sample ID: 460-217659-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	5.6		1.0	0.32	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	3.68	B	1.88	0.33	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.57	J	1.88	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.59		1.88	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.07		1.88	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13.8		1.88	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.51	J	1.88	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.71	J	1.88	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.13		1.88	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.48	B	1.88	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.61	J	1.88	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	42.1		1.88	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.21	J	1.88	0.33	ng/L	1		537 (modified)	Total/NA
6:2 FTS	4.04	J	18.8	1.88	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB — Lab Sample ID: 460-217659-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.0		1.0	0.32	ug/L	1		8260C	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.28	J B	1.82	0.15	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SESI Consulting Engineers
Job ID: 460-217659-1
Project/Site: Grossingers

Client Sample ID: TB
Lab Sample ID: 460-217659-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Client Sample ID: MW-201

Date Collected: 09/03/20 09:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 02:05	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 02:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:05	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 02:05	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 02:05	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 02:05	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 02:05	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 02:05	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 02:05	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:05	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 02:05	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 02:05	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 02:05	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 02:05	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 02:05	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 02:05	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 02:05	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 02:05	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 02:05	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 02:05	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 02:05	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 02:05	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 02:05	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 02:05	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:05	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 02:05	1
Chloromethane	**0.44**	**J**	1.0	0.40	ug/L			09/09/20 02:05	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 02:05	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 02:05	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 02:05	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 02:05	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:05	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 02:05	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 02:05	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:05	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 02:05	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 02:05	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 02:05	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 02:05	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 02:05	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 02:05	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 02:05	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 02:05	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 02:05	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 02:05	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 02:05	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 02:05	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:05	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 02:05	1

Client Sample ID: MW-201

Date Collected: 09/03/20 09:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 02:05	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 02:05	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 02:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 02:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*75 - 123*		*09/09/20 02:05*	*1*
4-Bromofluorobenzene	*83*		*76 - 120*		*09/09/20 02:05*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*09/09/20 02:05*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/09/20 02:05*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.51**	**J B**	1.88	0.33	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluoropentanoic acid (PFPeA)	0.46	U	1.88	0.46	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorohexanoic acid (PFHxA)	0.55	U	1.88	0.55	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	1.88	0.24	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorooctanoic acid (PFOA)	0.80	U	1.88	0.80	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorononanoic acid (PFNA)	0.25	U	1.88	0.25	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorodecanoic acid (PFDA)	0.29	U	1.88	0.29	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluoroundecanoic acid (PFUnA)	1.04	U	1.88	1.04	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorododecanoic acid (PFDoA)	0.52	U	1.88	0.52	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorotridecanoic acid (PFTriA)	1.22	U	1.88	1.22	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.88	0.27	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorobutanesulfonic acid (PFBS)	0.19	U	1.88	0.19	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorohexanesulfonic acid (PFHxS)	**0.33**	**J B**	1.88	0.16	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.18	U	1.88	0.18	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorooctanesulfonic acid (PFOS)	**0.57**	**J**	1.88	0.51	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.88	0.30	ng/L		09/09/20 18:39	09/10/20 18:36	1
Perfluorooctanesulfonamide (FOSA)	0.33	U	1.88	0.33	ng/L		09/09/20 18:39	09/10/20 18:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.92	U	18.8	2.92	ng/L		09/09/20 18:39	09/10/20 18:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79	U	18.8	1.79	ng/L		09/09/20 18:39	09/10/20 18:36	1
6:2 FTS	**11.0**	**J**	18.8	1.88	ng/L		09/09/20 18:39	09/10/20 18:36	1
8:2 FTS	1.88	U	18.8	1.88	ng/L		09/09/20 18:39	09/10/20 18:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*84*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C5 PFPeA	*90*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C2 PFHxA	*95*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C4 PFHpA	*99*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C4 PFOA	*95*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C5 PFNA	*99*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C2 PFDA	*90*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C2 PFUnA	*91*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C2 PFDoA	*77*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*

Client Sample ID: MW-201

Date Collected: 09/03/20 09:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*88*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C3 PFBS	*100*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
18O2 PFHxS	*106*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C4 PFOS	*106*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
13C8 FOSA	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
d3-NMeFOSAA	*91*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
d5-NEtFOSAA	*96*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*
M2-8:2 FTS	*115*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:36*	*1*

Client Sample ID: MW-207

Date Collected: 09/03/20 11:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 02:29	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 02:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:29	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 02:29	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 02:29	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 02:29	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 02:29	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 02:29	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 02:29	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:29	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 02:29	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 02:29	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 02:29	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 02:29	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 02:29	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 02:29	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 02:29	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 02:29	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 02:29	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 02:29	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 02:29	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 02:29	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 02:29	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 02:29	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:29	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 02:29	1
Chloromethane	**0.41**	**J**	1.0	0.40	ug/L			09/09/20 02:29	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 02:29	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 02:29	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 02:29	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 02:29	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:29	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 02:29	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 02:29	1

Client Sample ID: MW-207

Date Collected: 09/03/20 11:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:29	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 02:29	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 02:29	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 02:29	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 02:29	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 02:29	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 02:29	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 02:29	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 02:29	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 02:29	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 02:29	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 02:29	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 02:29	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:29	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 02:29	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 02:29	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 02:29	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 02:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 02:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*75 - 123*		*09/09/20 02:29*	*1*
4-Bromofluorobenzene	*84*		*76 - 120*		*09/09/20 02:29*	*1*
Dibromofluoromethane (Surr)	*88*		*77 - 124*		*09/09/20 02:29*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/09/20 02:29*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.93**	**B**	1.87	0.33	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluoropentanoic acid (PFPeA)	**0.79**	**J**	1.87	0.46	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorohexanoic acid (PFHxA)	**0.91**	**J**	1.87	0.54	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluoroheptanoic acid (PFHpA)	**0.94**	**J**	1.87	0.23	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorooctanoic acid (PFOA)	**5.46**		1.87	0.80	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorononanoic acid (PFNA)	**0.61**	**J**	1.87	0.25	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorodecanoic acid (PFDA)	**0.39**	**J**	1.87	0.29	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluoroundecanoic acid (PFUnA)	1.03	U	1.87	1.03	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorododecanoic acid (PFDoA)	0.52	U	1.87	0.52	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorotridecanoic acid (PFTriA)	1.22	U	1.87	1.22	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.87	0.27	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorobutanesulfonic acid (PFBS)	**0.76**	**J**	1.87	0.19	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorohexanesulfonic acid (PFHxS)	**1.92**	**B**	1.87	0.16	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.37**	**J**	1.87	0.18	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorooctanesulfonic acid (PFOS)	**22.1**		1.87	0.51	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.87	0.30	ng/L		09/09/20 18:39	09/10/20 18:45	1
Perfluorooctanesulfonamide (FOSA)	0.33	U	1.87	0.33	ng/L		09/09/20 18:39	09/10/20 18:45	1

Client Sample ID: MW-207

Date Collected: 09/03/20 11:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.91	U	18.7	2.91	ng/L		09/09/20 18:39	09/10/20 18:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.78	U	18.7	1.78	ng/L		09/09/20 18:39	09/10/20 18:45	1
6:2 FTS	1.87	U	18.7	1.87	ng/L		09/09/20 18:39	09/10/20 18:45	1
8:2 FTS	1.87	U	18.7	1.87	ng/L		09/09/20 18:39	09/10/20 18:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*51*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C5 PFPeA	*55*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C2 PFHxA	*70*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C4 PFHpA	*70*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C4 PFOA	*69*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C5 PFNA	*67*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C2 PFDA	*64*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C2 PFUnA	*56*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C2 PFDoA	*49*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C2 PFTeDA	*48*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C3 PFBS	*75*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
18O2 PFHxS	*77*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C4 PFOS	*74*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
13C8 FOSA	*59*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
d3-NMeFOSAA	*52*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
d5-NEtFOSAA	*56*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
M2-6:2 FTS	*109*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*
M2-8:2 FTS	*83*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:45*	*1*

Client Sample ID: MW-210

Date Collected: 09/03/20 10:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 02:53	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 02:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:53	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 02:53	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 02:53	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 02:53	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 02:53	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 02:53	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 02:53	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:53	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 02:53	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 02:53	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 02:53	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 02:53	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 02:53	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 02:53	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 02:53	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 02:53	1

Client Sample ID: MW-210

Date Collected: 09/03/20 10:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 02:53	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 02:53	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 02:53	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 02:53	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 02:53	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 02:53	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:53	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 02:53	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 02:53	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 02:53	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 02:53	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 02:53	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 02:53	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 02:53	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 02:53	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 02:53	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 02:53	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 02:53	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 02:53	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 02:53	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 02:53	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 02:53	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 02:53	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 02:53	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 02:53	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 02:53	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 02:53	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 02:53	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 02:53	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 02:53	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 02:53	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 02:53	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 02:53	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 02:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 02:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*75 - 123*		*09/09/20 02:53*	*1*
4-Bromofluorobenzene	*86*		*76 - 120*		*09/09/20 02:53*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 124*		*09/09/20 02:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/09/20 02:53*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.54**	**J B**	2.01	0.35	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluoropentanoic acid (PFPeA)	**0.60**	**J**	2.01	0.49	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorohexanoic acid (PFHxA)	0.58	U	2.01	0.58	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluoroheptanoic acid (PFHpA)	**0.73**	**J**	2.01	0.25	ng/L		09/09/20 18:39	09/10/20 18:54	1

Client Sample ID: MW-210

Date Collected: 09/03/20 10:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**2.32**		2.01	0.85	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorononanoic acid (PFNA)	0.27	U	2.01	0.27	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorodecanoic acid (PFDA)	0.31	U	2.01	0.31	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluoroundecanoic acid (PFUnA)	1.11	U	2.01	1.11	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.01	0.55	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorotridecanoic acid (PFTriA)	1.31	U	2.01	1.31	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.01	0.29	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorobutanesulfonic acid (PFBS)	**1.10**	**J**	2.01	0.20	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorohexanesulfonic acid (PFHxS)	**1.02**	**J B**	2.01	0.17	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.01	0.19	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorooctanesulfonic acid (PFOS)	**3.56**	**cn**	2.01	0.54	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.01	0.32	ng/L		09/09/20 18:39	09/10/20 18:54	1
Perfluorooctanesulfonamide (FOSA)	**0.36**	**J**	2.01	0.35	ng/L		09/09/20 18:39	09/10/20 18:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.11	U	20.1	3.11	ng/L		09/09/20 18:39	09/10/20 18:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.91	U	20.1	1.91	ng/L		09/09/20 18:39	09/10/20 18:54	1
6:2 FTS	2.01	U	20.1	2.01	ng/L		09/09/20 18:39	09/10/20 18:54	1
8:2 FTS	2.01	U	20.1	2.01	ng/L		09/09/20 18:39	09/10/20 18:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*56*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C5 PFPeA	*63*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C2 PFHxA	*71*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C4 PFHpA	*71*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C4 PFOA	*66*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C5 PFNA	*69*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C2 PFDA	*70*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C2 PFUnA	*65*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C2 PFDoA	*58*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C2 PFTeDA	*60*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C3 PFBS	*84*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
18O2 PFHxS	*86*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C4 PFOS	*81*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
13C8 FOSA	*68*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
d3-NMeFOSAA	*62*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
d5-NEtFOSAA	*66*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
M2-6:2 FTS	*85*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*
M2-8:2 FTS	*89*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:54*	*1*

Client Sample ID: MW-211

Date Collected: 09/03/20 14:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 03:17	1

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Client Sample ID: MW-211

Date Collected: 09/03/20 14:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 03:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 03:17	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 03:17	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 03:17	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 03:17	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 03:17	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 03:17	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 03:17	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 03:17	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 03:17	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 03:17	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 03:17	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 03:17	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 03:17	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 03:17	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 03:17	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 03:17	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 03:17	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 03:17	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 03:17	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 03:17	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 03:17	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 03:17	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 03:17	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 03:17	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 03:17	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 03:17	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 03:17	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 03:17	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 03:17	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 03:17	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 03:17	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 03:17	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 03:17	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 03:17	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 03:17	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 03:17	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 03:17	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 03:17	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 03:17	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 03:17	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 03:17	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 03:17	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 03:17	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 03:17	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 03:17	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/09/20 03:17	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 03:17	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 03:17	1

Client Sample ID: MW-211

Date Collected: 09/03/20 14:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 03:17	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 03:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 03:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*75 - 123*		*09/09/20 03:17*	*1*
4-Bromofluorobenzene	*90*		*76 - 120*		*09/09/20 03:17*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 124*		*09/09/20 03:17*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/09/20 03:17*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.72**	**J B**	1.99	0.35	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluoropentanoic acid (PFPeA)	0.49	U	1.99	0.49	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorohexanoic acid (PFHxA)	0.58	U	1.99	0.58	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	1.99	0.25	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorooctanoic acid (PFOA)	**0.87**	**J**	1.99	0.85	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorononanoic acid (PFNA)	0.27	U	1.99	0.27	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorodecanoic acid (PFDA)	0.31	U	1.99	0.31	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	1.99	1.10	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorododecanoic acid (PFDoA)	0.55	U	1.99	0.55	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorotridecanoic acid (PFTriA)	1.30	U	1.99	1.30	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorotetradecanoic acid (PFTeA)	**0.41**	**J**	1.99	0.29	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.99	0.20	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorohexanesulfonic acid (PFHxS)	**0.56**	**J B**	1.99	0.17	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.99	0.19	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorooctanesulfonic acid (PFOS)	**1.75**	**J**	1.99	0.54	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	1.99	0.32	ng/L		09/09/20 18:39	09/10/20 19:04	1
Perfluorooctanesulfonamide (FOSA)	**0.35**	**J**	1.99	0.35	ng/L		09/09/20 18:39	09/10/20 19:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.09	U	19.9	3.09	ng/L		09/09/20 18:39	09/10/20 19:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89	U	19.9	1.89	ng/L		09/09/20 18:39	09/10/20 19:04	1
6:2 FTS	**5.28**	**J**	19.9	1.99	ng/L		09/09/20 18:39	09/10/20 19:04	1
8:2 FTS	1.99	U	19.9	1.99	ng/L		09/09/20 18:39	09/10/20 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C5 PFPeA	*84*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C2 PFHxA	*92*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C4 PFHpA	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C4 PFOA	*87*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C5 PFNA	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C2 PFDA	*88*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C2 PFUnA	*85*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C2 PFDoA	*72*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*

Client Sample ID: MW-211

Lab Sample ID: 460-217659-4

Date Collected: 09/03/20 14:00
Matrix: Water
Date Received: 09/04/20 16:25

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFTeDA	*76*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C3 PFBS	*99*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
18O2 PFHxS	*99*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C4 PFOS	*95*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
13C8 FOSA	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
d3-NMeFOSAA	*76*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
d5-NEtFOSAA	*87*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*
M2-8:2 FTS	*110*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:04*	*1*

Client Sample ID: MW-214

Lab Sample ID: 460-217659-5

Date Collected: 09/03/20 09:30
Matrix: Water
Date Received: 09/04/20 16:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 03:41	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 03:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 03:41	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 03:41	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 03:41	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 03:41	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 03:41	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 03:41	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 03:41	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 03:41	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 03:41	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 03:41	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 03:41	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 03:41	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 03:41	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 03:41	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 03:41	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 03:41	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 03:41	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 03:41	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 03:41	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 03:41	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 03:41	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 03:41	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 03:41	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 03:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 03:41	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 03:41	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 03:41	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 03:41	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 03:41	1
Dichlorodifluoromethane	**16**		1.0	0.31	ug/L			09/09/20 03:41	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 03:41	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 03:41	1

Client Sample ID: MW-214

Date Collected: 09/03/20 09:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 03:41	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 03:41	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 03:41	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 03:41	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 03:41	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 03:41	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 03:41	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 03:41	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 03:41	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 03:41	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 03:41	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 03:41	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 03:41	1
Trichlorofluoromethane	**5.1**		1.0	0.32	ug/L			09/09/20 03:41	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 03:41	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 03:41	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 03:41	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 03:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorodichloromethane	*8.4*	*J N*	*ug/L*		*1.04*	*75-43-4*		*09/09/20 03:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*75 - 123*		*09/09/20 03:41*	*1*
4-Bromofluorobenzene	*87*		*76 - 120*		*09/09/20 03:41*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 124*		*09/09/20 03:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/09/20 03:41*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**9.76**	**B**	2.07	0.36	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluoropentanoic acid (PFPeA)	**4.50**		2.07	0.51	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorohexanoic acid (PFHxA)	**6.65**		2.07	0.60	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluoroheptanoic acid (PFHpA)	**5.08**		2.07	0.26	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorooctanoic acid (PFOA)	**25.8**		2.07	0.88	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorononanoic acid (PFNA)	**1.41**	**J**	2.07	0.28	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorodecanoic acid (PFDA)	**1.42**	**J**	2.07	0.32	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluoroundecanoic acid (PFUnA)	1.14	U	2.07	1.14	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorododecanoic acid (PFDoA)	0.57	U	2.07	0.57	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorotridecanoic acid (PFTriA)	1.35	U	2.07	1.35	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorotetradecanoic acid (PFTeA)	0.30	U	2.07	0.30	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorobutanesulfonic acid (PFBS)	**3.32**		2.07	0.21	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorohexanesulfonic acid (PFHxS)	**5.44**	**B**	2.07	0.18	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.75**	**J**	2.07	0.20	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorooctanesulfonic acid (PFOS)	**46.6**		2.07	0.56	ng/L		09/09/20 18:39	09/10/20 19:13	1
Perfluorodecanesulfonic acid (PFDS)	0.33	U	2.07	0.33	ng/L		09/09/20 18:39	09/10/20 19:13	1

Client Sample ID: MW-214

Date Collected: 09/03/20 09:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-5

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	**2.04**	**J**	2.07	0.36	ng/L		09/09/20 18:39	09/10/20 19:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.21	U	20.7	3.21	ng/L		09/09/20 18:39	09/10/20 19:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.97	U	20.7	1.97	ng/L		09/09/20 18:39	09/10/20 19:13	1
6:2 FTS	2.07	U	20.7	2.07	ng/L		09/09/20 18:39	09/10/20 19:13	1
8:2 FTS	2.07	U	20.7	2.07	ng/L		09/09/20 18:39	09/10/20 19:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*56*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C5 PFPeA	*62*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C2 PFHxA	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C4 PFHpA	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C4 PFOA	*76*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C5 PFNA	*80*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C2 PFDA	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C2 PFUnA	*80*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C2 PFDoA	*70*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C3 PFBS	*87*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
18O2 PFHxS	*92*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C4 PFOS	*86*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
13C8 FOSA	*75*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
d3-NMeFOSAA	*67*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
d5-NEtFOSAA	*77*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
M2-6:2 FTS	*120*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:13*	*1*

Client Sample ID: MW-216

Date Collected: 09/03/20 13:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 04:05	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 04:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 04:05	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 04:05	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 04:05	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 04:05	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 04:05	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 04:05	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 04:05	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 04:05	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 04:05	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 04:05	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 04:05	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 04:05	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 04:05	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 04:05	1

Client Sample ID: MW-216

Date Collected: 09/03/20 13:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 04:05	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 04:05	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 04:05	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 04:05	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 04:05	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 04:05	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 04:05	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 04:05	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 04:05	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 04:05	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 04:05	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 04:05	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 04:05	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 04:05	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 04:05	1
Dichlorodifluoromethane	**3.9**		1.0	0.31	ug/L			09/09/20 04:05	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 04:05	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 04:05	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 04:05	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 04:05	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 04:05	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 04:05	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 04:05	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 04:05	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 04:05	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 04:05	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 04:05	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 04:05	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 04:05	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 04:05	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 04:05	1
Trichlorofluoromethane	**6.9**		1.0	0.32	ug/L			09/09/20 04:05	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 04:05	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 04:05	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 04:05	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 04:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 04:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 123*		*09/09/20 04:05*	*1*
4-Bromofluorobenzene	*83*		*76 - 120*		*09/09/20 04:05*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 124*		*09/09/20 04:05*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*09/09/20 04:05*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.37**	**B**	1.83	0.32	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluoropentanoic acid (PFPeA)	**2.52**		1.83	0.45	ng/L		09/09/20 18:39	09/10/20 19:23	1

Client Sample ID: MW-216

Date Collected: 09/03/20 13:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-6

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	**2.62**		1.83	0.53	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluoroheptanoic acid (PFHpA)	**1.88**		1.83	0.23	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorooctanoic acid (PFOA)	**9.39**		1.83	0.78	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorononanoic acid (PFNA)	**0.73**	**J**	1.83	0.25	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorodecanoic acid (PFDA)	**0.34**	**J**	1.83	0.28	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluoroundecanoic acid (PFUnA)	1.01	U	1.83	1.01	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorododecanoic acid (PFDoA)	0.50	U	1.83	0.50	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorotridecanoic acid (PFTriA)	1.19	U	1.83	1.19	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.83	0.27	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorobutanesulfonic acid (PFBS)	**1.19**	**J**	1.83	0.18	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorohexanesulfonic acid (PFHxS)	**2.96**	**B**	1.83	0.16	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.17	U	1.83	0.17	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorooctanesulfonic acid (PFOS)	**24.8**		1.83	0.49	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorodecanesulfonic acid (PFDS)	0.29	U	1.83	0.29	ng/L		09/09/20 18:39	09/10/20 19:23	1
Perfluorooctanesulfonamide (FOSA)	**1.06**	**J**	1.83	0.32	ng/L		09/09/20 18:39	09/10/20 19:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.84	U	18.3	2.84	ng/L		09/09/20 18:39	09/10/20 19:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.74	U	18.3	1.74	ng/L		09/09/20 18:39	09/10/20 19:23	1
6:2 FTS	1.83	U	18.3	1.83	ng/L		09/09/20 18:39	09/10/20 19:23	1
8:2 FTS	1.83	U	18.3	1.83	ng/L		09/09/20 18:39	09/10/20 19:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*34*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C5 PFPeA	*37*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C2 PFHxA	*43*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C4 PFHpA	*43*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C4 PFOA	*41*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C5 PFNA	*44*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C2 PFDA	*42*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C2 PFUnA	*35*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C2 PFDoA	*31*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C2 PFTeDA	*28*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C3 PFBS	*44*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
18O2 PFHxS	*48*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C4 PFOS	*43*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
13C8 FOSA	*39*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
d3-NMeFOSAA	*35*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
d5-NEtFOSAA	*38*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
M2-6:2 FTS	*59*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*
M2-8:2 FTS	*55*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:23*	*1*

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Client Sample ID: MW-217

Date Collected: 09/03/20 12:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/09/20 04:29	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/09/20 04:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/09/20 04:29	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/09/20 04:29	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/09/20 04:29	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/09/20 04:29	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/09/20 04:29	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/09/20 04:29	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/09/20 04:29	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/09/20 04:29	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/09/20 04:29	1
1,4-Dioxane	28	U	50	28	ug/L			09/09/20 04:29	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/09/20 04:29	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/09/20 04:29	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/09/20 04:29	1
Acetone	4.4	U	5.0	4.4	ug/L			09/09/20 04:29	1
Benzene	0.20	U	1.0	0.20	ug/L			09/09/20 04:29	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/09/20 04:29	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/09/20 04:29	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/09/20 04:29	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/09/20 04:29	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/09/20 04:29	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/09/20 04:29	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/09/20 04:29	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/09/20 04:29	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/09/20 04:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/09/20 04:29	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/09/20 04:29	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/09/20 04:29	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/09/20 04:29	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/09/20 04:29	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/09/20 04:29	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/09/20 04:29	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/09/20 04:29	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/09/20 04:29	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/09/20 04:29	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/09/20 04:29	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/09/20 04:29	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/09/20 04:29	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/09/20 04:29	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/09/20 04:29	1
Styrene	0.42	U	1.0	0.42	ug/L			09/09/20 04:29	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/09/20 04:29	1
Toluene	0.38	U	1.0	0.38	ug/L			09/09/20 04:29	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/09/20 04:29	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/09/20 04:29	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/09/20 04:29	1
Trichlorofluoromethane	**5.6**		1.0	0.32	ug/L			09/09/20 04:29	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/09/20 04:29	1

Client Sample ID: MW-217

Date Collected: 09/03/20 12:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/09/20 04:29	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/09/20 04:29	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/09/20 04:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/09/20 04:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*75 - 123*		*09/09/20 04:29*	*1*
4-Bromofluorobenzene	*84*		*76 - 120*		*09/09/20 04:29*	*1*
Dibromofluoromethane (Surr)	*83*		*77 - 124*		*09/09/20 04:29*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/09/20 04:29*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.68**	**B**	1.88	0.33	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluoropentanoic acid (PFPeA)	**1.57**	**J**	1.88	0.46	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorohexanoic acid (PFHxA)	**2.59**		1.88	0.54	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluoroheptanoic acid (PFHpA)	**2.07**		1.88	0.23	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorooctanoic acid (PFOA)	**13.8**		1.88	0.80	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorononanoic acid (PFNA)	**1.51**	**J**	1.88	0.25	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorodecanoic acid (PFDA)	**0.71**	**J**	1.88	0.29	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluoroundecanoic acid (PFUnA)	1.03	U	1.88	1.03	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorododecanoic acid (PFDoA)	0.52	U	1.88	0.52	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorotridecanoic acid (PFTriA)	1.22	U	1.88	1.22	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.88	0.27	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorobutanesulfonic acid (PFBS)	**2.13**		1.88	0.19	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorohexanesulfonic acid (PFHxS)	**4.48**	**B**	1.88	0.16	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.61**	**J**	1.88	0.18	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorooctanesulfonic acid (PFOS)	**42.1**		1.88	0.51	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.88	0.30	ng/L		09/09/20 18:39	09/10/20 19:32	1
Perfluorooctanesulfonamide (FOSA)	**1.21**	**J**	1.88	0.33	ng/L		09/09/20 18:39	09/10/20 19:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.91	U	18.8	2.91	ng/L		09/09/20 18:39	09/10/20 19:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79	U	18.8	1.79	ng/L		09/09/20 18:39	09/10/20 19:32	1
6:2 FTS	**4.04**	**J**	18.8	1.88	ng/L		09/09/20 18:39	09/10/20 19:32	1
8:2 FTS	1.88	U	18.8	1.88	ng/L		09/09/20 18:39	09/10/20 19:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*43*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C5 PFPeA	*50*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C2 PFHxA	*63*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C4 PFHpA	*64*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C4 PFOA	*63*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C5 PFNA	*68*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C2 PFDA	*65*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C2 PFUnA	*63*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*

Client Sample ID: MW-217

Lab Sample ID: 460-217659-7

Date Collected: 09/03/20 12:35
Matrix: Water
Date Received: 09/04/20 16:25

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDoA	*58*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C2 PFTeDA	*52*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C3 PFBS	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
18O2 PFHxS	*85*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C4 PFOS	*82*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
13C8 FOSA	*67*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
d3-NMeFOSAA	*62*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
d5-NEtFOSAA	*69*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*
M2-8:2 FTS	*100*		*25 - 150*	*09/09/20 18:39*	*09/10/20 19:32*	*1*

Client Sample ID: FB

Lab Sample ID: 460-217659-8

Date Collected: 09/03/20 15:00
Matrix: Water
Date Received: 09/04/20 16:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/08/20 23:18	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/08/20 23:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/08/20 23:18	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/08/20 23:18	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/08/20 23:18	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/08/20 23:18	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/08/20 23:18	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/08/20 23:18	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/08/20 23:18	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/08/20 23:18	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/08/20 23:18	1
1,4-Dioxane	28	U	50	28	ug/L			09/08/20 23:18	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/08/20 23:18	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/08/20 23:18	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/08/20 23:18	1
Acetone	4.4	U	5.0	4.4	ug/L			09/08/20 23:18	1
Benzene	0.20	U	1.0	0.20	ug/L			09/08/20 23:18	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/08/20 23:18	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/08/20 23:18	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/08/20 23:18	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/08/20 23:18	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/08/20 23:18	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/08/20 23:18	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/08/20 23:18	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/08/20 23:18	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/08/20 23:18	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/08/20 23:18	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/08/20 23:18	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/08/20 23:18	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/08/20 23:18	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/08/20 23:18	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/08/20 23:18	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/08/20 23:18	1

Client Sample ID: FB

Date Collected: 09/03/20 15:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/08/20 23:18	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/08/20 23:18	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/08/20 23:18	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/08/20 23:18	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/08/20 23:18	1
Methylene Chloride	**1.0**		1.0	0.32	ug/L			09/08/20 23:18	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/08/20 23:18	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/08/20 23:18	1
Styrene	0.42	U	1.0	0.42	ug/L			09/08/20 23:18	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/08/20 23:18	1
Toluene	0.38	U	1.0	0.38	ug/L			09/08/20 23:18	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/08/20 23:18	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/08/20 23:18	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/08/20 23:18	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/08/20 23:18	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/08/20 23:18	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/08/20 23:18	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/08/20 23:18	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/08/20 23:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/08/20 23:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*	*X*	*75 - 123*		*09/08/20 23:18*	*1*
4-Bromofluorobenzene	*93*		*76 - 120*		*09/08/20 23:18*	*1*
Dibromofluoromethane (Surr)	*85*		*77 - 124*		*09/08/20 23:18*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/08/20 23:18*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.32	U	1.82	0.32	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluoropentanoic acid (PFPeA)	0.45	U	1.82	0.45	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorohexanoic acid (PFHxA)	0.53	U	1.82	0.53	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	1.82	0.23	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorooctanoic acid (PFOA)	0.77	U	1.82	0.77	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorononanoic acid (PFNA)	0.25	U	1.82	0.25	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorodecanoic acid (PFDA)	0.28	U	1.82	0.28	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluoroundecanoic acid (PFUnA)	1.0	U	1.82	1.0	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorododecanoic acid (PFDoA)	0.50	U	1.82	0.50	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorotridecanoic acid (PFTriA)	1.18	U	1.82	1.18	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.82	0.26	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorobutanesulfonic acid (PFBS)	0.18	U	1.82	0.18	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorohexanesulfonic acid (PFHxS)	**0.28**	**J B**	1.82	0.15	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.17	U	1.82	0.17	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorooctanesulfonic acid (PFOS)	0.49	U	1.82	0.49	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorodecanesulfonic acid (PFDS)	0.29	U	1.82	0.29	ng/L		09/09/20 18:39	09/10/20 20:00	1
Perfluorooctanesulfonamide (FOSA)	0.32	U	1.82	0.32	ng/L		09/09/20 18:39	09/10/20 20:00	1

Client Sample ID: FB

Date Collected: 09/03/20 15:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-8
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.82	U	18.2	2.82	ng/L		09/09/20 18:39	09/10/20 20:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.73	U	18.2	1.73	ng/L		09/09/20 18:39	09/10/20 20:00	1
6:2 FTS	1.82	U	18.2	1.82	ng/L		09/09/20 18:39	09/10/20 20:00	1
8:2 FTS	1.82	U	18.2	1.82	ng/L		09/09/20 18:39	09/10/20 20:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C5 PFPeA	*87*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C2 PFHxA	*88*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C4 PFHpA	*86*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C4 PFOA	*81*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C5 PFNA	*86*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C2 PFDA	*82*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C2 PFUnA	*77*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C2 PFDoA	*77*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C2 PFTeDA	*68*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C3 PFBS	*98*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
18O2 PFHxS	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C4 PFOS	*92*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
13C8 FOSA	*80*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
d3-NMeFOSAA	*77*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
d5-NEtFOSAA	*82*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
M2-6:2 FTS	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*
M2-8:2 FTS	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 20:00*	*1*

Client Sample ID: TB

Date Collected: 09/03/20 15:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/08/20 23:42	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/08/20 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/08/20 23:42	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/08/20 23:42	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/08/20 23:42	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/08/20 23:42	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/08/20 23:42	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/08/20 23:42	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/08/20 23:42	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/08/20 23:42	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/08/20 23:42	1
1,4-Dioxane	28	U	50	28	ug/L			09/08/20 23:42	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/08/20 23:42	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/08/20 23:42	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/08/20 23:42	1
Acetone	4.4	U	5.0	4.4	ug/L			09/08/20 23:42	1
Benzene	0.20	U	1.0	0.20	ug/L			09/08/20 23:42	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/08/20 23:42	1

Client Sample ID: TB

Date Collected: 09/03/20 15:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.55	U	1.0	0.55	ug/L			09/08/20 23:42	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/08/20 23:42	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/08/20 23:42	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/08/20 23:42	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/08/20 23:42	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/08/20 23:42	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/08/20 23:42	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/08/20 23:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/08/20 23:42	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/08/20 23:42	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/08/20 23:42	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/08/20 23:42	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/08/20 23:42	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/08/20 23:42	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/08/20 23:42	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/08/20 23:42	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/08/20 23:42	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/08/20 23:42	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/08/20 23:42	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/08/20 23:42	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/08/20 23:42	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/08/20 23:42	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/08/20 23:42	1
Styrene	0.42	U	1.0	0.42	ug/L			09/08/20 23:42	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/08/20 23:42	1
Toluene	0.38	U	1.0	0.38	ug/L			09/08/20 23:42	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/08/20 23:42	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/08/20 23:42	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/08/20 23:42	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/08/20 23:42	1
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/08/20 23:42	1
1,2-Dichloroethane	0.43	U *	1.0	0.43	ug/L			09/08/20 23:42	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/08/20 23:42	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/08/20 23:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/08/20 23:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*75 - 123*		*09/08/20 23:42*	*1*
4-Bromofluorobenzene	*87*		*76 - 120*		*09/08/20 23:42*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 124*		*09/08/20 23:42*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/08/20 23:42*	*1*

Surrogate Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-217659-1	MW-201	76	83	92	93
460-217659-2	MW-207	75	84	88	95
460-217659-3	MW-210	77	86	92	102
460-217659-4	MW-211	77	90	89	104
460-217659-5	MW-214	75	87	89	98
460-217659-6	MW-216	80	83	86	90
460-217659-7	MW-217	76	84	83	89
460-217659-8	FB	72 X	93	85	98
460-217659-9	TB	79	87	94	94
LCS 460-722587/4	Lab Control Sample	74 X	85	86	96
LCSD 460-722587/5	Lab Control Sample Dup	76	86	86	92
MB 460-722587/8	Method Blank	61 X	84	81	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
460-217659-1	MW-201	84	90	95	99	95	99	90	91
460-217659-2	MW-207	51	55	70	70	69	67	64	56
460-217659-3	MW-210	56	63	71	71	66	69	70	65
460-217659-4	MW-211	78	84	92	93	87	93	88	85
460-217659-5	MW-214	56	62	79	79	76	80	79	80
460-217659-6	MW-216	34	37	43	43	41	44	42	35
460-217659-7	MW-217	43	50	63	64	63	68	65	63
460-217659-8	FB	83	87	88	86	81	86	82	77
LCS 320-410906/2-A	Lab Control Sample	90	89	93	89	84	88	87	82
LCSD 320-410906/3-A	Lab Control Sample Dup	88	91	88	87	85	87	82	85
MB 320-410906/1-A	Method Blank	90	94	93	91	90	91	90	91

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
460-217659-1	MW-201	77	88	100	106	106	93	91	96
460-217659-2	MW-207	49	48	75	77	74	59	52	56
460-217659-3	MW-210	58	60	84	86	81	68	62	66
460-217659-4	MW-211	72	76	99	99	95	79	76	87
460-217659-5	MW-214	70	74	87	92	86	75	67	77
460-217659-6	MW-216	31	28	44	48	43	39	35	38
460-217659-7	MW-217	58	52	79	85	82	67	62	69
460-217659-8	FB	77	68	98	93	92	80	77	82
LCS 320-410906/2-A	Lab Control Sample	75	73	101	99	94	85	82	84
LCSD 320-410906/3-A	Lab Control Sample Dup	75	69	96	97	94	83	82	86
MB 320-410906/1-A	Method Blank	79	79	98	100	97	83	87	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
460-217659-1	MW-201	107	115						
460-217659-2	MW-207	109	83						
460-217659-3	MW-210	85	89						
460-217659-4	MW-211	104	110						
460-217659-5	MW-214	120	96						
460-217659-6	MW-216	59	55						
460-217659-7	MW-217	106	100						
460-217659-8	FB	93	93						
LCS 320-410906/2-A	Lab Control Sample	93	105						
LCSD 320-410906/3-A	Lab Control Sample Dup	98	99						
MB 320-410906/1-A	Method Blank	99	106						

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA

Isotope Dilution Summary

Client: SESI Consulting Engineers
Job ID: 460-217659-1
Project/Site: Grossingers

PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-722587/8
Matrix: Water
Analysis Batch: 722587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	1.0	0.24	ug/L			09/08/20 22:54	1
1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			09/08/20 22:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			09/08/20 22:54	1
1,1,2-Trichloroethane	0.43	U	1.0	0.43	ug/L			09/08/20 22:54	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/08/20 22:54	1
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/08/20 22:54	1
1,2,3-Trichlorobenzene	0.36	U	1.0	0.36	ug/L			09/08/20 22:54	1
1,2,4-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/08/20 22:54	1
1,2-Dichloropropane	0.35	U	1.0	0.35	ug/L			09/08/20 22:54	1
1,3-Dichlorobenzene	0.34	U	1.0	0.34	ug/L			09/08/20 22:54	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			09/08/20 22:54	1
1,4-Dioxane	28	U	50	28	ug/L			09/08/20 22:54	1
2-Butanone (MEK)	1.9	U	5.0	1.9	ug/L			09/08/20 22:54	1
2-Hexanone	1.1	U	5.0	1.1	ug/L			09/08/20 22:54	1
4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3	ug/L			09/08/20 22:54	1
Acetone	4.4	U	5.0	4.4	ug/L			09/08/20 22:54	1
Benzene	0.20	U	1.0	0.20	ug/L			09/08/20 22:54	1
Bromoform	0.54	U	1.0	0.54	ug/L			09/08/20 22:54	1
Bromomethane	0.55	U	1.0	0.55	ug/L			09/08/20 22:54	1
Carbon disulfide	0.82	U	1.0	0.82	ug/L			09/08/20 22:54	1
Carbon tetrachloride	0.21	U	1.0	0.21	ug/L			09/08/20 22:54	1
Chlorobenzene	0.38	U	1.0	0.38	ug/L			09/08/20 22:54	1
Chlorobromomethane	0.41	U	1.0	0.41	ug/L			09/08/20 22:54	1
Chlorodibromomethane	0.28	U	1.0	0.28	ug/L			09/08/20 22:54	1
Chloroethane	0.32	U	1.0	0.32	ug/L			09/08/20 22:54	1
Chloroform	0.33	U	1.0	0.33	ug/L			09/08/20 22:54	1
Chloromethane	0.40	U	1.0	0.40	ug/L			09/08/20 22:54	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			09/08/20 22:54	1
cis-1,3-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/08/20 22:54	1
Cyclohexane	0.32	U	1.0	0.32	ug/L			09/08/20 22:54	1
Dichlorobromomethane	0.34	U	1.0	0.34	ug/L			09/08/20 22:54	1
Dichlorodifluoromethane	0.31	U	1.0	0.31	ug/L			09/08/20 22:54	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			09/08/20 22:54	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			09/08/20 22:54	1
Isopropylbenzene	0.34	U	1.0	0.34	ug/L			09/08/20 22:54	1
Methyl acetate	0.79	U	5.0	0.79	ug/L			09/08/20 22:54	1
Methyl tert-butyl ether	0.47	U	1.0	0.47	ug/L			09/08/20 22:54	1
Methylcyclohexane	0.26	U	1.0	0.26	ug/L			09/08/20 22:54	1
Methylene Chloride	0.32	U	1.0	0.32	ug/L			09/08/20 22:54	1
m-Xylene & p-Xylene	0.30	U	1.0	0.30	ug/L			09/08/20 22:54	1
o-Xylene	0.36	U	1.0	0.36	ug/L			09/08/20 22:54	1
Styrene	0.42	U	1.0	0.42	ug/L			09/08/20 22:54	1
Tetrachloroethene	0.25	U	1.0	0.25	ug/L			09/08/20 22:54	1
Toluene	0.38	U	1.0	0.38	ug/L			09/08/20 22:54	1
trans-1,2-Dichloroethene	0.24	U	1.0	0.24	ug/L			09/08/20 22:54	1
trans-1,3-Dichloropropene	0.49	U	1.0	0.49	ug/L			09/08/20 22:54	1
Trichloroethene	0.31	U	1.0	0.31	ug/L			09/08/20 22:54	1
Trichlorofluoromethane	0.32	U	1.0	0.32	ug/L			09/08/20 22:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-722587/8
Matrix: Water
Analysis Batch: 722587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.17	U	1.0	0.17	ug/L			09/08/20 22:54	1
1,2-Dichloroethane	0.43	U	1.0	0.43	ug/L			09/08/20 22:54	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/08/20 22:54	1
1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38	ug/L			09/08/20 22:54	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/08/20 22:54*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*61*	*X*	*75 - 123*		*09/08/20 22:54*	*1*
4-Bromofluorobenzene	*84*		*76 - 120*		*09/08/20 22:54*	*1*
Dibromofluoromethane (Surr)	*81*		*77 - 124*		*09/08/20 22:54*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*09/08/20 22:54*	*1*

Lab Sample ID: LCS 460-722587/4
Matrix: Water
Analysis Batch: 722587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	15.3		ug/L		77	68 - 128
1,1,2,2-Tetrachloroethane	20.0	24.2		ug/L		121	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		94	59 - 142
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	74 - 125
1,1-Dichloroethane	20.0	16.3		ug/L		82	73 - 130
1,1-Dichloroethene	20.0	19.6		ug/L		98	68 - 133
1,2,3-Trichlorobenzene	20.0	21.4		ug/L		107	53 - 144
1,2,4-Trichlorobenzene	20.0	18.0		ug/L		90	64 - 132
1,2-Dichloropropane	20.0	18.9		ug/L		95	76 - 126
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 121
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 118
1,4-Dioxane	400	487		ug/L		122	70 - 142
2-Butanone (MEK)	100	98.0		ug/L		98	69 - 128
2-Hexanone	100	99.9		ug/L		100	74 - 127
4-Methyl-2-pentanone (MIBK)	100	98.1		ug/L		98	78 - 125
Acetone	100	94.2		ug/L		94	61 - 134
Benzene	20.0	17.9		ug/L		89	78 - 126
Bromoform	20.0	18.0		ug/L		90	38 - 144
Bromomethane	20.0	18.1		ug/L		90	10 - 150
Carbon disulfide	20.0	20.2		ug/L		101	64 - 138
Carbon tetrachloride	20.0	14.9		ug/L		75	56 - 131
Chlorobenzene	20.0	20.7		ug/L		103	80 - 119
Chlorobromomethane	20.0	20.9		ug/L		105	73 - 126
Chlorodibromomethane	20.0	19.2		ug/L		96	58 - 130
Chloroethane	20.0	21.2		ug/L		106	29 - 150
Chloroform	20.0	17.0		ug/L		85	78 - 125
Chloromethane	20.0	20.9		ug/L		105	38 - 150
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	78 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-722587/4
Matrix: Water
Analysis Batch: 722587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	19.1		ug/L		96	74 - 125
Cyclohexane	20.0	17.5		ug/L		88	67 - 133
Dichlorobromomethane	20.0	16.3		ug/L		81	72 - 121
Dichlorodifluoromethane	20.0	14.4		ug/L		72	31 - 150
Ethylbenzene	20.0	20.2		ug/L		101	78 - 120
Ethylene Dibromide	20.0	20.2		ug/L		101	69 - 126
Isopropylbenzene	20.0	19.5		ug/L		97	79 - 125
Methyl acetate	40.0	38.2		ug/L		96	70 - 127
Methyl tert-butyl ether	20.0	17.5		ug/L		87	65 - 131
Methylcyclohexane	20.0	18.7		ug/L		93	60 - 139
Methylene Chloride	20.0	21.2		ug/L		106	74 - 127
m-Xylene & p-Xylene	20.0	19.7		ug/L		99	78 - 123
o-Xylene	20.0	20.1		ug/L		101	78 - 122
Styrene	20.0	21.0		ug/L		105	75 - 127
Tetrachloroethene	20.0	17.0		ug/L		85	70 - 127
Toluene	20.0	18.1		ug/L		90	78 - 119
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	74 - 126
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	66 - 127
Trichloroethene	20.0	18.4		ug/L		92	71 - 121
Trichlorofluoromethane	20.0	14.8		ug/L		74	61 - 140
Vinyl chloride	20.0	19.9		ug/L		100	61 - 144
1,2-Dichloroethane	20.0	13.3	*	ug/L		67	75 - 121
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	41 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*74*	*X*	*75 - 123*
4-Bromofluorobenzene	*85*		*76 - 120*
Dibromofluoromethane (Surr)	*86*		*77 - 124*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 460-722587/5
Matrix: Water
Analysis Batch: 722587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	16.4		ug/L		82	68 - 128	7	30
1,1,2,2-Tetrachloroethane	20.0	22.5		ug/L		113	63 - 139	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.5		ug/L		97	59 - 142	3	30
1,1,2-Trichloroethane	20.0	22.3		ug/L		112	74 - 125	6	30
1,1-Dichloroethane	20.0	17.8		ug/L		89	73 - 130	9	30
1,1-Dichloroethene	20.0	20.2		ug/L		101	68 - 133	3	30
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	53 - 144	9	30
1,2,4-Trichlorobenzene	20.0	19.1		ug/L		96	64 - 132	6	30
1,2-Dichloropropane	20.0	23.7		ug/L		118	76 - 126	22	30
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 121	0	30
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 118	2	30
1,4-Dioxane	400	422		ug/L		105	70 - 142	14	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-722587/5
Matrix: Water
Analysis Batch: 722587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	95.8		ug/L		96	69 - 128	2	30
2-Hexanone			100	97.3		ug/L		97	74 - 127	3	30
4-Methyl-2-pentanone (MIBK)			100	94.4		ug/L		94	78 - 125	4	30
Acetone			100	84.2		ug/L		84	61 - 134	11	30
Benzene			20.0	21.4		ug/L		107	78 - 126	18	30
Bromoform			20.0	18.2		ug/L		91	38 - 144	1	30
Bromomethane			20.0	19.7		ug/L		99	10 - 150	9	30
Carbon disulfide			20.0	20.1		ug/L		101	64 - 138	1	30
Carbon tetrachloride			20.0	16.7		ug/L		84	56 - 131	11	30
Chlorobenzene			20.0	20.4		ug/L		102	80 - 119	1	30
Chlorobromomethane			20.0	21.2		ug/L		106	73 - 126	1	30
Chlorodibromomethane			20.0	19.4		ug/L		97	58 - 130	2	30
Chloroethane			20.0	20.5		ug/L		103	29 - 150	3	30
Chloroform			20.0	20.2		ug/L		101	78 - 125	18	30
Chloromethane			20.0	22.6		ug/L		113	38 - 150	8	30
cis-1,2-Dichloroethene			20.0	20.4		ug/L		102	78 - 121	5	30
cis-1,3-Dichloropropene			20.0	19.8		ug/L		99	74 - 125	3	30
Cyclohexane			20.0	19.3		ug/L		97	67 - 133	10	30
Dichlorobromomethane			20.0	18.0		ug/L		90	72 - 121	10	30
Dichlorodifluoromethane			20.0	16.0		ug/L		80	31 - 150	10	30
Ethylbenzene			20.0	20.4		ug/L		102	78 - 120	1	30
Ethylene Dibromide			20.0	18.4		ug/L		92	69 - 126	9	30
Isopropylbenzene			20.0	20.2		ug/L		101	79 - 125	3	30
Methyl acetate			40.0	33.6		ug/L		84	70 - 127	13	30
Methyl tert-butyl ether			20.0	18.2		ug/L		91	65 - 131	4	30
Methylcyclohexane			20.0	20.6		ug/L		103	60 - 139	10	30
Methylene Chloride			20.0	20.9		ug/L		105	74 - 127	1	30
m-Xylene & p-Xylene			20.0	20.2		ug/L		101	78 - 123	2	30
o-Xylene			20.0	18.6		ug/L		93	78 - 122	8	30
Styrene			20.0	20.7		ug/L		103	75 - 127	2	30
Tetrachloroethene			20.0	18.9		ug/L		94	70 - 127	11	30
Toluene			20.0	18.9		ug/L		94	78 - 119	4	30
trans-1,2-Dichloroethene			20.0	21.2		ug/L		106	74 - 126	6	30
trans-1,3-Dichloropropene			20.0	19.4		ug/L		97	66 - 127	5	30
Trichloroethene			20.0	19.5		ug/L		98	71 - 121	6	30
Trichlorofluoromethane			20.0	15.3		ug/L		76	61 - 140	3	30
Vinyl chloride			20.0	23.4		ug/L		117	61 - 144	16	30
1,2-Dichloroethane			20.0	16.2		ug/L		81	75 - 121	19	30
1,2-Dichlorobenzene			20.0	21.3		ug/L		106	79 - 122	2	30
1,2-Dibromo-3-Chloropropane			20.0	17.9		ug/L		90	41 - 143	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*76*		*75 - 123*
4-Bromofluorobenzene	*86*		*76 - 120*
Dibromofluoromethane (Surr)	*86*		*77 - 124*
Toluene-d8 (Surr)	*92*		*80 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-410906/1-A
Matrix: Water
Analysis Batch: 411143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.541	J	2.00	0.35	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorohexanesulfonic acid (PFHxS)	0.339	J	2.00	0.17	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32	ng/L		09/09/20 18:39	09/10/20 18:07	1
Perfluorooctanesulfonamide (FOSA)	0.35	U	2.00	0.35	ng/L		09/09/20 18:39	09/10/20 18:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10	ng/L		09/09/20 18:39	09/10/20 18:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90	ng/L		09/09/20 18:39	09/10/20 18:07	1
6:2 FTS	2.00	U	20.0	2.00	ng/L		09/09/20 18:39	09/10/20 18:07	1
8:2 FTS	2.00	U	20.0	2.00	ng/L		09/09/20 18:39	09/10/20 18:07	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C5 PFPeA	*94*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C2 PFHxA	*93*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C4 PFHpA	*91*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C4 PFOA	*90*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C5 PFNA	*91*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C2 PFDA	*90*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C2 PFUnA	*91*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C2 PFDoA	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C2 PFTeDA	*79*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C3 PFBS	*98*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
18O2 PFHxS	*100*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C4 PFOS	*97*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
13C8 FOSA	*83*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
d3-NMeFOSAA	*87*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
d5-NEtFOSAA	*90*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
M2-6:2 FTS	*99*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*
M2-8:2 FTS	*106*		*25 - 150*	*09/09/20 18:39*	*09/10/20 18:07*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-410906/2-A
Matrix: Water
Analysis Batch: 411143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	41.57		ng/L		104	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	39.75		ng/L		99	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	41.17		ng/L		103	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	41.33		ng/L		103	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	40.45		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.87		ng/L		107	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.95		ng/L		100	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	40.85		ng/L		102	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	42.34		ng/L		106	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	42.64		ng/L		107	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	39.43		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	34.17		ng/L		97	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.74		ng/L		93	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.47		ng/L		104	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	38.86		ng/L		105	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	37.63		ng/L		98	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	40.01		ng/L		100	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.21		ng/L		106	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.74		ng/L		97	76 - 136
6:2 FTS	37.9	37.38		ng/L		99	59 - 175
8:2 FTS	38.3	36.84		ng/L		96	75 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*90*		*25 - 150*
13C5 PFPeA	*89*		*25 - 150*
13C2 PFHxA	*93*		*25 - 150*
13C4 PFHpA	*89*		*25 - 150*
13C4 PFOA	*84*		*25 - 150*
13C5 PFNA	*88*		*25 - 150*
13C2 PFDA	*87*		*25 - 150*
13C2 PFUnA	*82*		*25 - 150*
13C2 PFDoA	*75*		*25 - 150*
13C2 PFTeDA	*73*		*25 - 150*
13C3 PFBS	*101*		*25 - 150*
18O2 PFHxS	*99*		*25 - 150*
13C4 PFOS	*94*		*25 - 150*
13C8 FOSA	*85*		*25 - 150*
d3-NMeFOSAA	*82*		*25 - 150*
d5-NEtFOSAA	*84*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-410906/2-A
Matrix: Water
Analysis Batch: 411143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410906

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	105		25 - 150

Lab Sample ID: LCSD 320-410906/3-A
Matrix: Water
Analysis Batch: 411143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 410906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	40.94		ng/L		102	76 - 136	2	30
Perfluoropentanoic acid (PFPeA)			40.0	37.79		ng/L		94	71 - 131	5	30
Perfluorohexanoic acid (PFHxA)			40.0	38.69		ng/L		97	73 - 133	6	30
Perfluoroheptanoic acid (PFHpA)			40.0	39.70		ng/L		99	72 - 132	4	30
Perfluorooctanoic acid (PFOA)			40.0	39.54		ng/L		99	70 - 130	2	30
Perfluorononanoic acid (PFNA)			40.0	39.84		ng/L		100	75 - 135	7	30
Perfluorodecanoic acid (PFDA)			40.0	39.91		ng/L		100	76 - 136	0	30
Perfluoroundecanoic acid (PFUnA)			40.0	38.05		ng/L		95	68 - 128	7	30
Perfluorododecanoic acid (PFDoA)			40.0	42.61		ng/L		107	71 - 131	1	30
Perfluorotridecanoic acid (PFTriA)			40.0	38.43		ng/L		96	71 - 131	10	30
Perfluorotetradecanoic acid (PFTeA)			40.0	41.06		ng/L		103	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)			35.4	34.86		ng/L		99	67 - 127	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.49		ng/L		89	59 - 119	4	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	38.52		ng/L		101	76 - 136	2	30
Perfluorooctanesulfonic acid (PFOS)			37.1	36.48		ng/L		98	70 - 130	6	30
Perfluorodecanesulfonic acid (PFDS)			38.6	36.88		ng/L		96	71 - 131	2	30
Perfluorooctanesulfonamide (FOSA)			40.0	40.35		ng/L		101	73 - 133	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			40.0	41.43		ng/L		104	76 - 136	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			40.0	38.81		ng/L		97	76 - 136	0	30
6:2 FTS			37.9	37.38		ng/L		99	59 - 175	0	30
8:2 FTS			38.3	36.01		ng/L		94	75 - 135	2	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	88		25 - 150
13C5 PFPeA	91		25 - 150
13C2 PFHxA	88		25 - 150
13C4 PFHpA	87		25 - 150
13C4 PFOA	85		25 - 150
13C5 PFNA	87		25 - 150
13C2 PFDA	82		25 - 150
13C2 PFUnA	85		25 - 150
13C2 PFDoA	75		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-410906/3-A
Matrix: Water
Analysis Batch: 411143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 410906

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFTeDA	69		25 - 150
13C3 PFBS	96		25 - 150
18O2 PFHxS	97		25 - 150
13C4 PFOS	94		25 - 150
13C8 FOSA	83		25 - 150
d3-NMeFOSAA	82		25 - 150
d5-NEtFOSAA	86		25 - 150
M2-6:2 FTS	98		25 - 150
M2-8:2 FTS	99		25 - 150

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 722587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217659-1	MW-201	Total/NA	Water	8260C	
460-217659-2	MW-207	Total/NA	Water	8260C	
460-217659-3	MW-210	Total/NA	Water	8260C	
460-217659-4	MW-211	Total/NA	Water	8260C	
460-217659-5	MW-214	Total/NA	Water	8260C	
460-217659-6	MW-216	Total/NA	Water	8260C	
460-217659-7	MW-217	Total/NA	Water	8260C	
460-217659-8	FB	Total/NA	Water	8260C	
460-217659-9	TB	Total/NA	Water	8260C	
MB 460-722587/8	Method Blank	Total/NA	Water	8260C	
LCS 460-722587/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-722587/5	Lab Control Sample Dup	Total/NA	Water	8260C	

LCMS

Prep Batch: 410906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217659-1	MW-201	Total/NA	Water	3535	
460-217659-2	MW-207	Total/NA	Water	3535	
460-217659-3	MW-210	Total/NA	Water	3535	
460-217659-4	MW-211	Total/NA	Water	3535	
460-217659-5	MW-214	Total/NA	Water	3535	
460-217659-6	MW-216	Total/NA	Water	3535	
460-217659-7	MW-217	Total/NA	Water	3535	
460-217659-8	FB	Total/NA	Water	3535	
MB 320-410906/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-410906/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-410906/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 411143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-217659-1	MW-201	Total/NA	Water	537 (modified)	410906
460-217659-2	MW-207	Total/NA	Water	537 (modified)	410906
460-217659-3	MW-210	Total/NA	Water	537 (modified)	410906
460-217659-4	MW-211	Total/NA	Water	537 (modified)	410906
460-217659-5	MW-214	Total/NA	Water	537 (modified)	410906
460-217659-6	MW-216	Total/NA	Water	537 (modified)	410906
460-217659-7	MW-217	Total/NA	Water	537 (modified)	410906
460-217659-8	FB	Total/NA	Water	537 (modified)	410906
MB 320-410906/1-A	Method Blank	Total/NA	Water	537 (modified)	410906
LCS 320-410906/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	410906
LCSD 320-410906/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	410906

Client Sample ID: MW-201
Date Collected: 09/03/20 09:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 02:05	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 18:36	S1M	TAL SAC

Client Sample ID: MW-207
Date Collected: 09/03/20 11:10
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 02:29	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 18:45	S1M	TAL SAC

Client Sample ID: MW-210
Date Collected: 09/03/20 10:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 02:53	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 18:54	S1M	TAL SAC

Client Sample ID: MW-211
Date Collected: 09/03/20 14:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 03:17	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 19:04	S1M	TAL SAC

Client Sample ID: MW-214
Date Collected: 09/03/20 09:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 03:41	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 19:13	S1M	TAL SAC

Client Sample ID: MW-216
Date Collected: 09/03/20 13:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 04:05	VBP	TAL EDI

Lab Chronicle

Client: SESI Consulting Engineers
Project/Site: Grossingers

Job ID: 460-217659-1

Client Sample ID: MW-216
Date Collected: 09/03/20 13:30
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 19:23	S1M	TAL SAC

Client Sample ID: MW-217
Date Collected: 09/03/20 12:35
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/09/20 04:29	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 19:32	S1M	TAL SAC

Client Sample ID: FB
Date Collected: 09/03/20 15:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/08/20 23:18	VBP	TAL EDI
Total/NA	Prep	3535			410906	09/09/20 18:39	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1	411143	09/10/20 20:00	S1M	TAL SAC

Client Sample ID: TB
Date Collected: 09/03/20 15:00
Date Received: 09/04/20 16:25

Lab Sample ID: 460-217659-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	722587	09/08/20 23:42	VBP	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: SESI Consulting Engineers
Job ID: 460-217659-1
Project/Site: Grossingers

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	10-31-20
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-1	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-201	460-217659-1	92	76	93	83
MW-207	460-217659-2	88	75	95	84
MW-210	460-217659-3	92	77	102	86
MW-211	460-217659-4	89	77	104	90
MW-214	460-217659-5	89	75	98	87
MW-216	460-217659-6	86	80	90	83
MW-217	460-217659-7	83	76	89	84
FB	460-217659-8	85	72 X	98	93
TB	460-217659-9	94	79	94	87
	MB 460-722587/8	81	61 X	91	84
	LCS 460-722587/4	86	74 X	96	85
	LCSD 460-722587/5	86	76	92	86

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-124
DCA = 1,2-Dichloroethane-d4 (Surr)	75-123
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	76-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T38865.D

Lab ID: LCS 460-722587/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	15.3	77	68-128	
1,1,2,2-Tetrachloroethane	20.0	24.2	121	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9	94	59-142	
1,1,2-Trichloroethane	20.0	20.9	105	74-125	
1,1-Dichloroethane	20.0	16.3	82	73-130	
1,1-Dichloroethene	20.0	19.6	98	68-133	
1,2,3-Trichlorobenzene	20.0	21.4	107	53-144	
1,2,4-Trichlorobenzene	20.0	18.0	90	64-132	
1,2-Dichloropropane	20.0	18.9	95	76-126	
1,3-Dichlorobenzene	20.0	20.4	102	80-121	
1,4-Dichlorobenzene	20.0	20.2	101	80-118	
1,4-Dioxane	400	487	122	70-142	
2-Butanone (MEK)	100	98.0	98	69-128	
2-Hexanone	100	99.9	100	74-127	
4-Methyl-2-pentanone (MIBK)	100	98.1	98	78-125	
Acetone	100	94.2	94	61-134	
Benzene	20.0	17.9	89	78-126	
Bromoform	20.0	18.0	90	38-144	
Bromomethane	20.0	18.1	90	10-150	
Carbon disulfide	20.0	20.2	101	64-138	
Carbon tetrachloride	20.0	14.9	75	56-131	
Chlorobenzene	20.0	20.7	103	80-119	
Chlorobromomethane	20.0	20.9	105	73-126	
Chlorodibromomethane	20.0	19.2	96	58-130	
Chloroethane	20.0	21.2	106	29-150	
Chloroform	20.0	17.0	85	78-125	
Chloromethane	20.0	20.9	105	38-150	
cis-1,2-Dichloroethene	20.0	19.4	97	78-121	
cis-1,3-Dichloropropene	20.0	19.1	96	74-125	
Cyclohexane	20.0	17.5	88	67-133	
Dichlorobromomethane	20.0	16.3	81	72-121	
Dichlorodifluoromethane	20.0	14.4	72	31-150	
Ethylbenzene	20.0	20.2	101	78-120	
Ethylene Dibromide	20.0	20.2	101	69-126	
Isopropylbenzene	20.0	19.5	97	79-125	
Methyl acetate	40.0	38.2	96	70-127	
Methyl tert-butyl ether	20.0	17.5	87	65-131	
Methylcyclohexane	20.0	18.7	93	60-139	
Methylene Chloride	20.0	21.2	106	74-127	
m-Xylene & p-Xylene	20.0	19.7	99	78-123	
o-Xylene	20.0	20.1	101	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T38865.D

Lab ID: LCS 460-722587/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	20.0	21.0	105	75-127	
Tetrachloroethene	20.0	17.0	85	70-127	
Toluene	20.0	18.1	90	78-119	
trans-1,2-Dichloroethene	20.0	20.0	100	74-126	
trans-1,3-Dichloropropene	20.0	18.5	93	66-127	
Trichloroethene	20.0	18.4	92	71-121	
Trichlorofluoromethane	20.0	14.8	74	61-140	
Vinyl chloride	20.0	19.9	100	61-144	
1,2-Dichloroethane	20.0	13.3	67	75-121	*
1,2-Dichlorobenzene	20.0	20.9	105	79-122	
1,2-Dibromo-3-Chloropropane	20.0	18.5	93	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T38866.D

Lab ID: LCSD 460-722587/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	16.4	82	7	30	68-128	
1,1,2,2-Tetrachloroethane	20.0	22.5	113	7	30	63-139	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.5	97	3	30	59-142	
1,1,2-Trichloroethane	20.0	22.3	112	6	30	74-125	
1,1-Dichloroethane	20.0	17.8	89	9	30	73-130	
1,1-Dichloroethene	20.0	20.2	101	3	30	68-133	
1,2,3-Trichlorobenzene	20.0	19.6	98	9	30	53-144	
1,2,4-Trichlorobenzene	20.0	19.1	96	6	30	64-132	
1,2-Dichloropropane	20.0	23.7	118	22	30	76-126	
1,3-Dichlorobenzene	20.0	20.5	102	0	30	80-121	
1,4-Dichlorobenzene	20.0	20.6	103	2	30	80-118	
1,4-Dioxane	400	422	105	14	30	70-142	
2-Butanone (MEK)	100	95.8	96	2	30	69-128	
2-Hexanone	100	97.3	97	3	30	74-127	
4-Methyl-2-pentanone (MIBK)	100	94.4	94	4	30	78-125	
Acetone	100	84.2	84	11	30	61-134	
Benzene	20.0	21.4	107	18	30	78-126	
Bromoform	20.0	18.2	91	1	30	38-144	
Bromomethane	20.0	19.7	99	9	30	10-150	
Carbon disulfide	20.0	20.1	101	1	30	64-138	
Carbon tetrachloride	20.0	16.7	84	11	30	56-131	
Chlorobenzene	20.0	20.4	102	1	30	80-119	
Chlorobromomethane	20.0	21.2	106	1	30	73-126	
Chlorodibromomethane	20.0	19.4	97	2	30	58-130	
Chloroethane	20.0	20.5	103	3	30	29-150	
Chloroform	20.0	20.2	101	18	30	78-125	
Chloromethane	20.0	22.6	113	8	30	38-150	
cis-1,2-Dichloroethene	20.0	20.4	102	5	30	78-121	
cis-1,3-Dichloropropene	20.0	19.8	99	3	30	74-125	
Cyclohexane	20.0	19.3	97	10	30	67-133	
Dichlorobromomethane	20.0	18.0	90	10	30	72-121	
Dichlorodifluoromethane	20.0	16.0	80	10	30	31-150	
Ethylbenzene	20.0	20.4	102	1	30	78-120	
Ethylene Dibromide	20.0	18.4	92	9	30	69-126	
Isopropylbenzene	20.0	20.2	101	3	30	79-125	
Methyl acetate	40.0	33.6	84	13	30	70-127	
Methyl tert-butyl ether	20.0	18.2	91	4	30	65-131	
Methylcyclohexane	20.0	20.6	103	10	30	60-139	
Methylene Chloride	20.0	20.9	105	1	30	74-127	
m-Xylene & p-Xylene	20.0	20.2	101	2	30	78-123	
o-Xylene	20.0	18.6	93	8	30	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T38866.D

Lab ID: LCSD 460-722587/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	20.0	20.7	103	2	30	75-127	
Tetrachloroethene	20.0	18.9	94	11	30	70-127	
Toluene	20.0	18.9	94	4	30	78-119	
trans-1,2-Dichloroethene	20.0	21.2	106	6	30	74-126	
trans-1,3-Dichloropropene	20.0	19.4	97	5	30	66-127	
Trichloroethene	20.0	19.5	98	6	30	71-121	
Trichlorofluoromethane	20.0	15.3	76	3	30	61-140	
Vinyl chloride	20.0	23.4	117	16	30	61-144	
1,2-Dichloroethane	20.0	16.2	81	19	30	75-121	
1,2-Dichlorobenzene	20.0	21.3	106	2	30	79-122	
1,2-Dibromo-3-Chloropropane	20.0	17.9	90	3	30	41-143	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab File ID: T38869.D Lab Sample ID: MB 460-722587/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS15 Date Analyzed: 09/08/2020 22:54

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-722587/4	T38865.D	09/08/2020 21:08
	LCSD 460-722587/5	T38866.D	09/08/2020 21:42
FB	460-217659-8	T38870.D	09/08/2020 23:18
TB	460-217659-9	T38871.D	09/08/2020 23:42
MW-201	460-217659-1	T38877.D	09/09/2020 02:05
MW-207	460-217659-2	T38878.D	09/09/2020 02:29
MW-210	460-217659-3	T38879.D	09/09/2020 02:53
MW-211	460-217659-4	T38880.D	09/09/2020 03:17
MW-214	460-217659-5	T38881.D	09/09/2020 03:41
MW-216	460-217659-6	T38882.D	09/09/2020 04:05
MW-217	460-217659-7	T38883.D	09/09/2020 04:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab File ID: T38692.D BFB Injection Date: 09/04/2020

Instrument ID: CVOAMS15 BFB Injection Time: 11:28

Analysis Batch No.: 721958

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.3	
75	30.0 - 60.0 % of mass 95	46.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	92.2	
175	5.0 - 9.0 % of mass 174	7.6	(8.2) 1
176	95.0 - 101.0 % of mass 174	87.8	(95.2) 1
177	5.0 - 9.0 % of mass 176	6.5	(7.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-721958/3	T38694.D	09/04/2020	12:13
	STD05 460-721958/4	T38695.D	09/04/2020	12:37
	STD1 460-721958/5	T38696.D	09/04/2020	13:01
	STD5 460-721958/6	T38697.D	09/04/2020	13:25
	STD20 460-721958/7	T38698.D	09/04/2020	13:49
	STD50 460-721958/8	T38699.D	09/04/2020	14:13
	STD200 460-721958/9	T38700.D	09/04/2020	14:37
	STD500 460-721958/10	T38701.D	09/04/2020	15:01
	ICV 460-721958/17	T38708.D	09/04/2020	19:36

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab File ID: T38862.D BFB Injection Date: 09/08/2020

Instrument ID: CVOAMS15 BFB Injection Time: 20:05

Analysis Batch No.: 722587

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.3	
75	30.0 - 60.0 % of mass 95	48.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	67.9	
175	5.0 - 9.0 % of mass 174	5.7	(8.4) 1
176	95.0 - 101.0 % of mass 174	66.2	(97.5) 1
177	5.0 - 9.0 % of mass 176	4.4	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-722587/2	T38863.D	09/08/2020	20:20
	LCS 460-722587/4	T38865.D	09/08/2020	21:08
	LCSD 460-722587/5	T38866.D	09/08/2020	21:42
	MB 460-722587/8	T38869.D	09/08/2020	22:54
FB	460-217659-8	T38870.D	09/08/2020	23:18
TB	460-217659-9	T38871.D	09/08/2020	23:42
MW-201	460-217659-1	T38877.D	09/09/2020	2:05
MW-207	460-217659-2	T38878.D	09/09/2020	2:29
MW-210	460-217659-3	T38879.D	09/09/2020	2:53
MW-211	460-217659-4	T38880.D	09/09/2020	3:17
MW-214	460-217659-5	T38881.D	09/09/2020	3:41
MW-216	460-217659-6	T38882.D	09/09/2020	4:05
MW-217	460-217659-7	T38883.D	09/09/2020	4:29

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Sample No.: STD20 460-721958/7 Date Analyzed: 09/04/2020 13:49

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T38698.D Heated Purge: (Y/N) N

Calibration ID: 81787

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		32797	1.60	207905	2.34	472367	3.28
UPPER LIMIT		65594	2.10	415810	2.84	944734	3.78
LOWER LIMIT		16399	1.10	103953	1.84	236184	2.78
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-721958/17		31479	1.60	196887	2.34	500217	3.27

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Sample No.: STD20 460-721958/7 Date Analyzed: 09/04/2020 13:49

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T38698.D Heated Purge: (Y/N) N

Calibration ID: 81787

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		23961	3.94	348723	6.74	166530	10.38
UPPER LIMIT		47922	4.44	697446	7.24	333060	10.88
LOWER LIMIT		11981	3.44	174362	6.24	83265	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-721958/17		23270	3.94	377825	6.74	175970	10.38

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Sample No.: CCVIS 460-722587/2 Date Analyzed: 09/08/2020 20:20

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T38863.D Heated Purge: (Y/N) N

Calibration ID: 81787

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39302	1.60	258328	2.34	696633	3.28
UPPER LIMIT		78604	2.10	516656	2.84	1393266	3.78
LOWER LIMIT		19651	1.10	129164	1.84	348317	2.78
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722587/4		45780	1.60	251099	2.34	710514	3.28
LCSD 460-722587/5		42898	1.60	261439	2.34	716601	3.28
MB 460-722587/8		40127	1.60	169842	2.34	730146	3.27
460-217659-8	FB	41004	1.60	234795	2.34	747690	3.27
460-217659-9	TB	39187	1.60	252511	2.34	667370	3.28
460-217659-1	MW-201	37264	1.60	265039	2.34	705404	3.27
460-217659-2	MW-207	38101	1.60	276627	2.34	695700	3.27
460-217659-3	MW-210	37055	1.60	269993	2.34	664415	3.27
460-217659-4	MW-211	40743	1.60	255633	2.34	695814	3.27
460-217659-5	MW-214	36981	1.60	245452	2.34	697813	3.27
460-217659-6	MW-216	38178	1.60	253082	2.34	736460	3.28
460-217659-7	MW-217	39488	1.60	229328	2.34	743476	3.27

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Sample No.: CCVIS 460-722587/2 Date Analyzed: 09/08/2020 20:20

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T38863.D Heated Purge: (Y/N) N

Calibration ID: 81787

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		34312	3.94	476410	6.74	219902	10.38
UPPER LIMIT		68624	4.44	952820	7.24	439804	10.88
LOWER LIMIT		17156	3.44	238205	6.24	109951	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-722587/4		32945	3.94	510085	6.74	222481	10.38
LCSD 460-722587/5		35214	3.93	511427	6.74	229917	10.38
MB 460-722587/8		33890	3.93	523106	6.74	219259	10.38
460-217659-8	FB	33142	3.93	486532	6.74	223435	10.38
460-217659-9	TB	34035	3.93	504785	6.74	217840	10.38
460-217659-1	MW-201	33491	3.93	512952	6.74	222980	10.38
460-217659-2	MW-207	29580	3.93	508198	6.74	215192	10.38
460-217659-3	MW-210	33579	3.93	491622	6.74	208889	10.38
460-217659-4	MW-211	33082	3.93	479338	6.74	222261	10.38
460-217659-5	MW-214	31304	3.93	487204	6.74	219276	10.38
460-217659-6	MW-216	30494	3.93	511086	6.74	218586	10.38
460-217659-7	MW-217	33444	3.93	508602	6.74	213039	10.38

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-201 Lab Sample ID: 460-217659-1

Matrix: Water Lab File ID: T38877.D

Analysis Method: 8260C Date Collected: 09/03/2020 09:10

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.44	J	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-201 Lab Sample ID: 460-217659-1

Matrix: Water Lab File ID: T38877.D

Analysis Method: 8260C Date Collected: 09/03/2020 09:10

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		75-123
460-00-4	4-Bromofluorobenzene	83		76-120
1868-53-7	Dibromofluoromethane (Surr)	92		77-124
2037-26-5	Toluene-d8 (Surr)	93		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-201 Lab Sample ID: 460-217659-1

Matrix: Water Lab File ID: T38877.D

Analysis Method: 8260C Date Collected: 09/03/2020 09:10

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38877.D
Lims ID: 460-217659-A-1
Client ID: MW-201
Sample Type: Client
Inject. Date: 09-Sep-2020 02:05:47 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-A-1
Misc. Info.: 460-0116442-016
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:08:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
6 Chloromethane	50	0.726	0.726	0.000	38	1239	0.4378	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	37264	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	47	265039	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	189996	46.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	96	157469	37.9	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	705404	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	33491	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	609625	46.5	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	84	512952	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	91	176209	41.7	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	222980	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:25:43 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38877.D

Injection Date: 09-Sep-2020 02:05:47 Instrument ID: CVOAMS15

Lims ID: 460-217659-A-1 Lab Sample ID: 460-217659-1

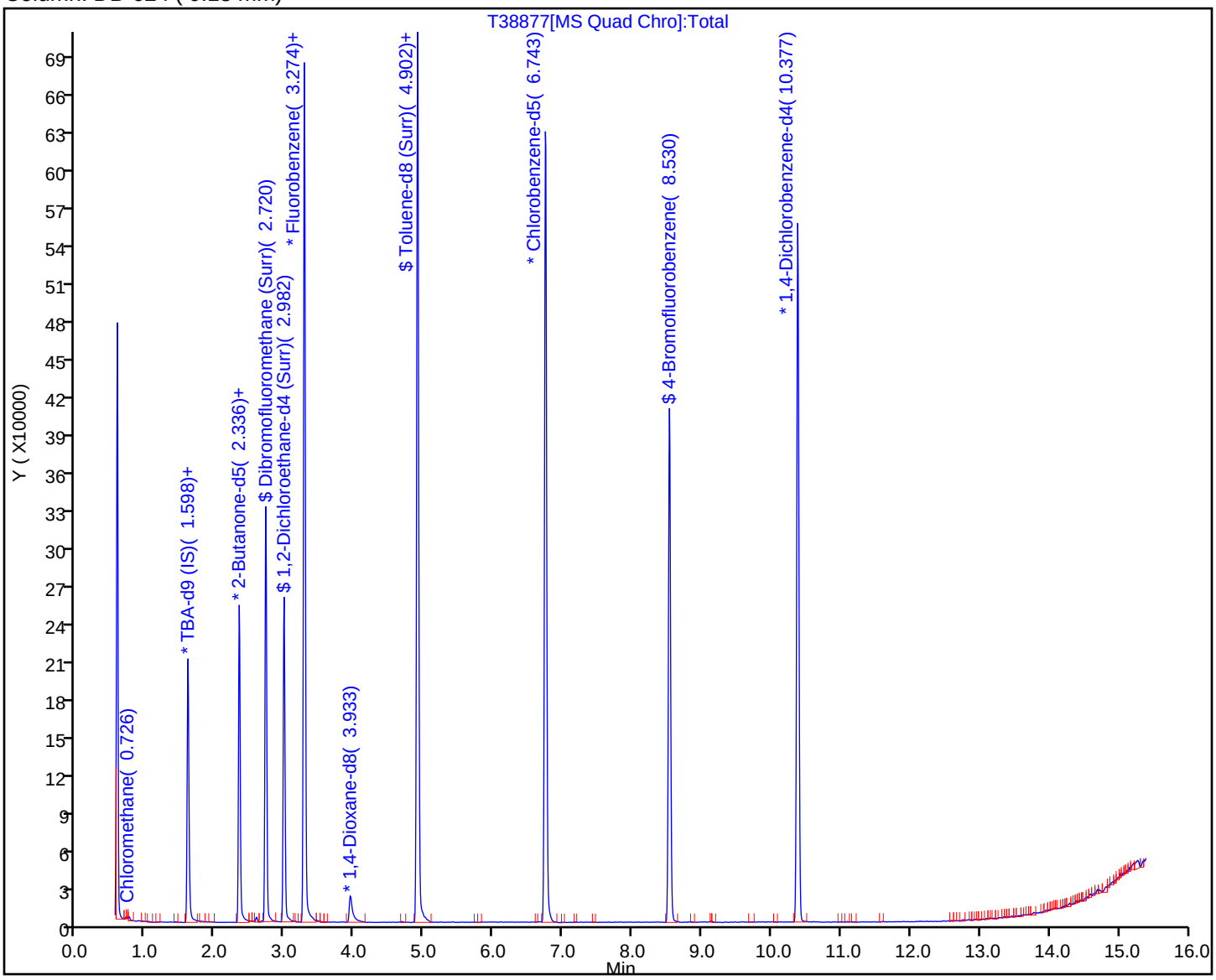
Client ID: MW-201

Operator ID: ALS Bottle#: 0 Worklist Smp#: 16

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

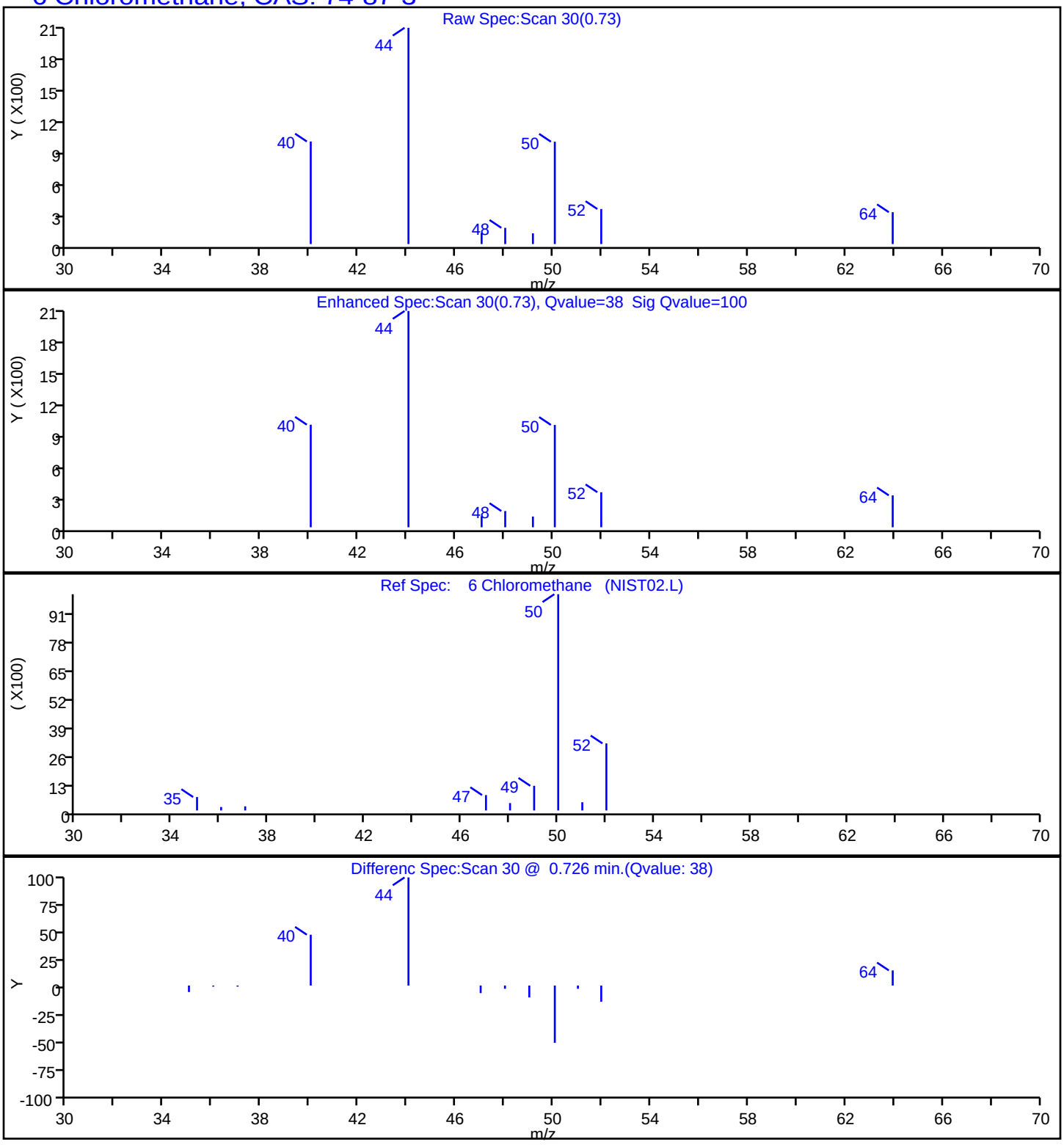


Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38877.D

Injection Date:	09-Sep-2020 02:05:47	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-1	Lab Sample ID:	460-217659-1		
Client ID:	MW-201				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

6 Chloromethane, CAS: 74-87-3



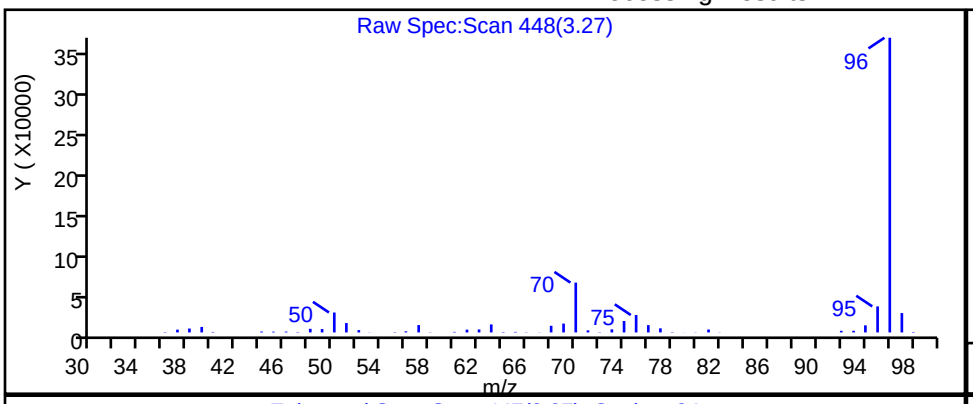
User Disabled Compound Report

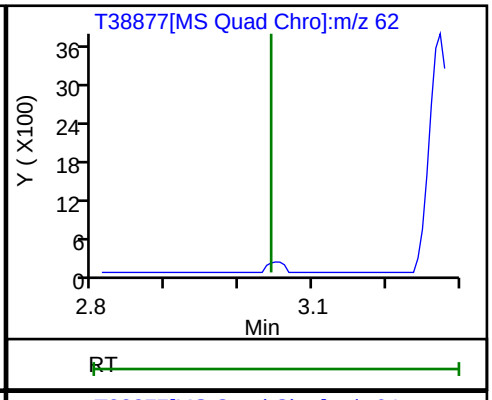
Eurofins TestAmerica, Edison

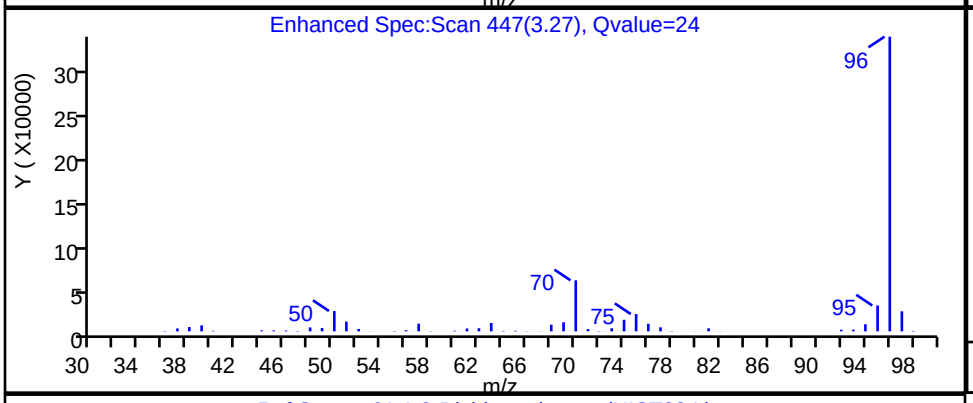
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38877.D				
Injection Date:	09-Sep-2020 02:05:47	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-1	Lab Sample ID:	460-217659-1		
Client ID:	MW-201				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

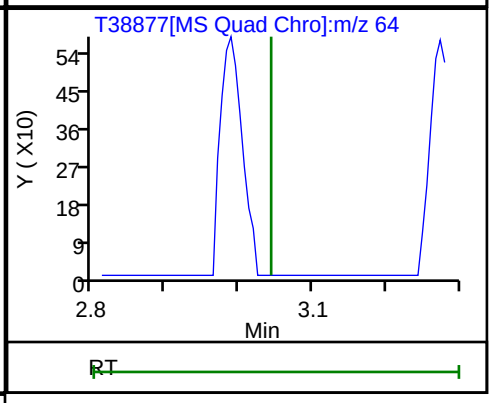
61 1,2-Dichloroethane, CAS: 107-06-2

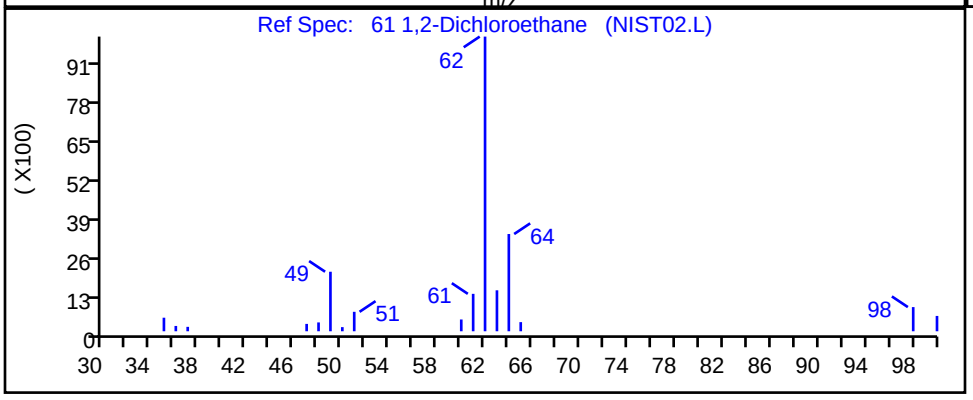
Processing Results











RT	Mass	Response	Amount
3.27	62.00	7157	1.529131
3.27	64.00	1131	

Reviewer: desais, 09-Sep-2020 07:08:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-207 Lab Sample ID: 460-217659-2

Matrix: Water Lab File ID: T38878.D

Analysis Method: 8260C Date Collected: 09/03/2020 11:10

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.41	J	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-207 Lab Sample ID: 460-217659-2

Matrix: Water Lab File ID: T38878.D

Analysis Method: 8260C Date Collected: 09/03/2020 11:10

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	75		75-123
460-00-4	4-Bromofluorobenzene	84		76-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-124
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-207 Lab Sample ID: 460-217659-2

Matrix: Water Lab File ID: T38878.D

Analysis Method: 8260C Date Collected: 09/03/2020 11:10

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38878.D
Lims ID: 460-217659-A-2
Client ID: MW-207
Sample Type: Client
Inject. Date: 09-Sep-2020 02:29:44 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-A-2
Misc. Info.: 460-0116442-017
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:08:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	0.653	0.647	0.006	26	1432	0.2822	
6 Chloromethane	50	0.726	0.726	0.000	1	1156	0.4142	
12 Trichlorofluoromethane	101	1.074	1.068	0.006	26	1127	0.1886	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	38101	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	47	276627	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	179243	44.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	96	154790	37.7	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	695700	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	29580	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	615957	47.5	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	84	508198	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	91	176829	42.2	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	215192	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:26:16 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38878.D

Injection Date: 09-Sep-2020 02:29:44 Instrument ID: CVOAMS15

Lims ID: 460-217659-A-2 Lab Sample ID: 460-217659-2

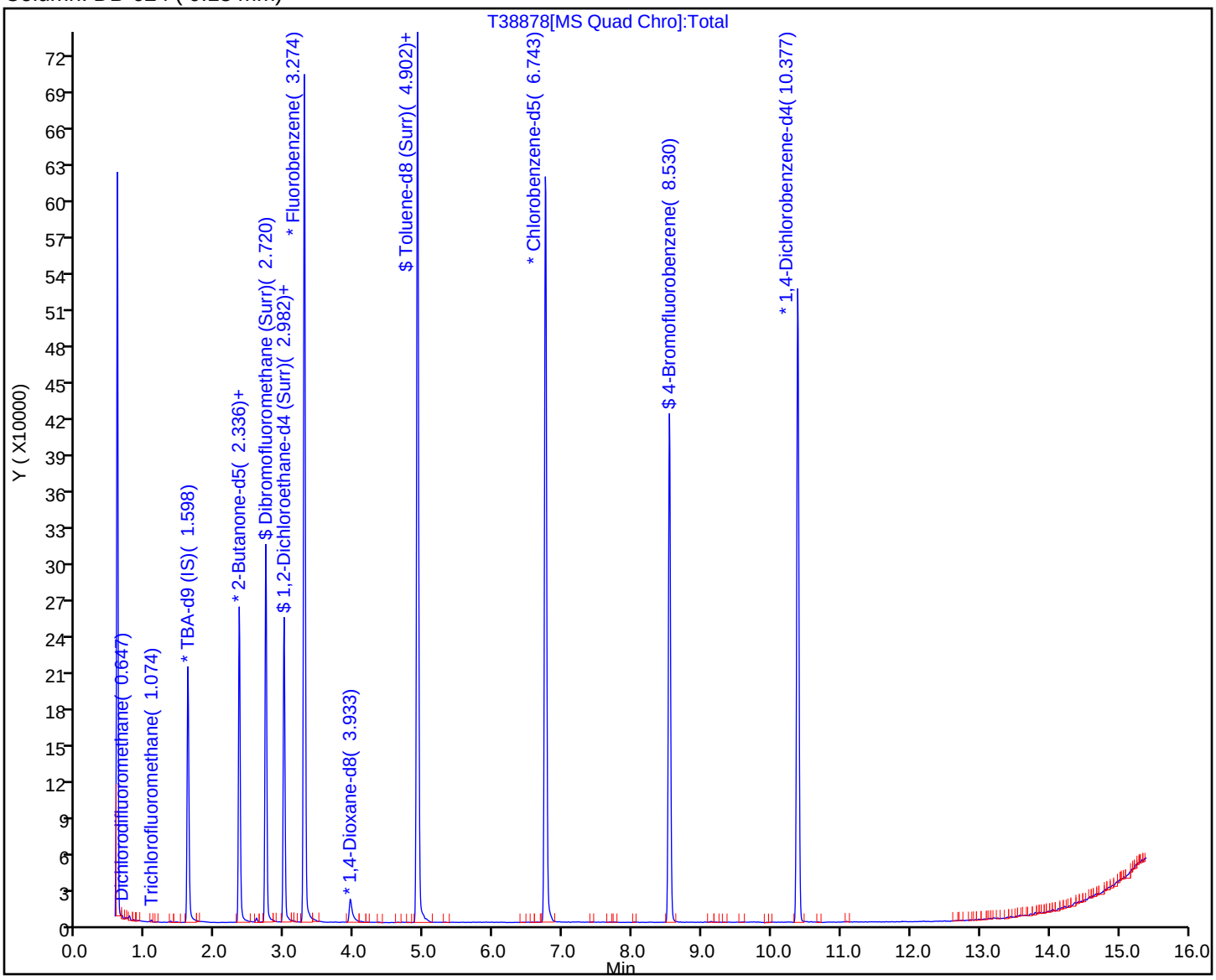
Client ID: MW-207

Operator ID: ALS Bottle#: 0 Worklist Smp#: 17

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

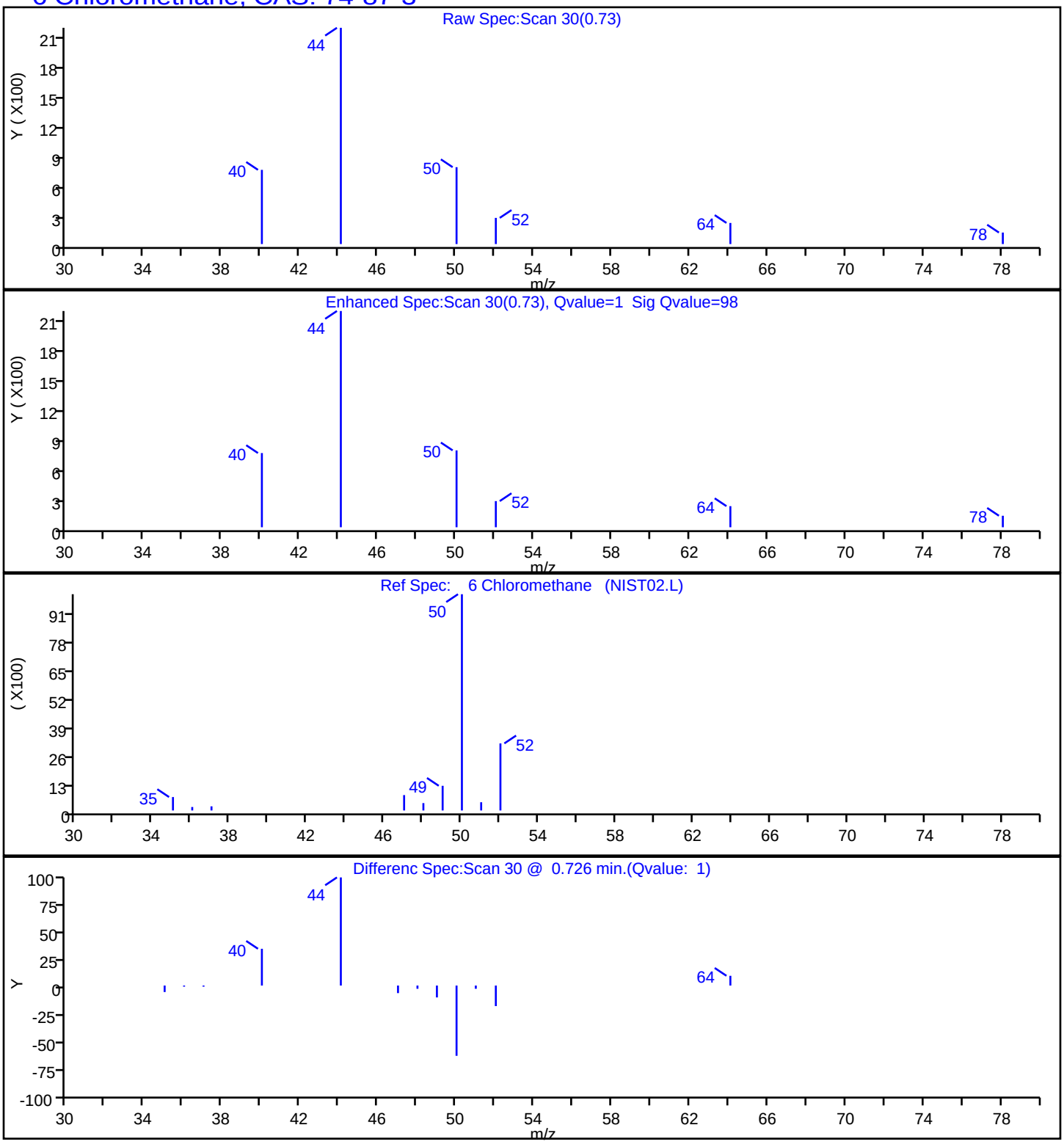
Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38878.D				
Injection Date:	09-Sep-2020 02:29:44	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-2	Lab Sample ID:	460-217659-2		
Client ID:	MW-207				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

6 Chloromethane, CAS: 74-87-3



Eurofins TestAmerica, Edison

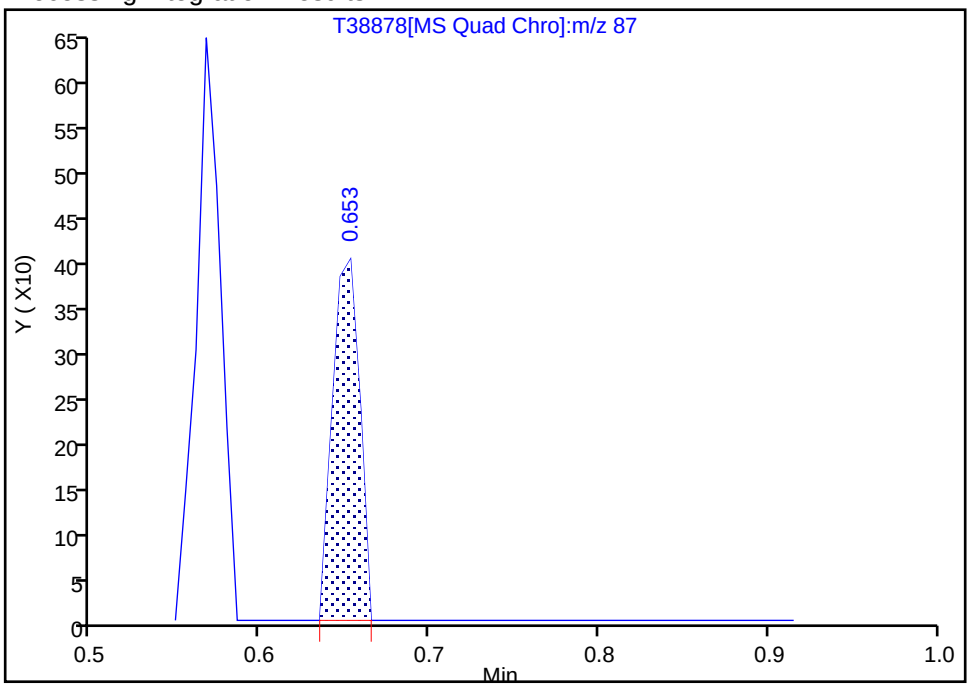
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38878.D		
Injection Date:	09-Sep-2020 02:29:44	Instrument ID:	CVOAMS15
Lims ID:	460-217659-A-2	Lab Sample ID:	460-217659-2
Client ID:	MW-207		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

4 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 2

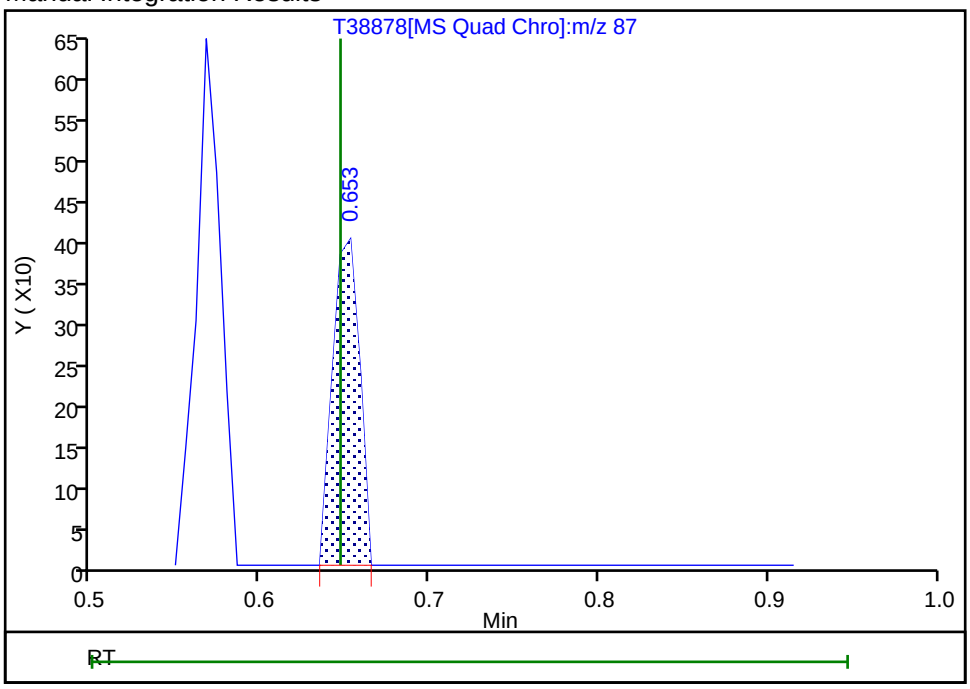
Processing Integration Results

RT: 0.65
Area: 439
Amount: 0.282153
Amount Units: ug/l



Manual Integration Results

RT: 0.65
Area: 439
Amount: 0.282153
Amount Units: ug/l



Reviewer: desais, 09-Sep-2020 07:08:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

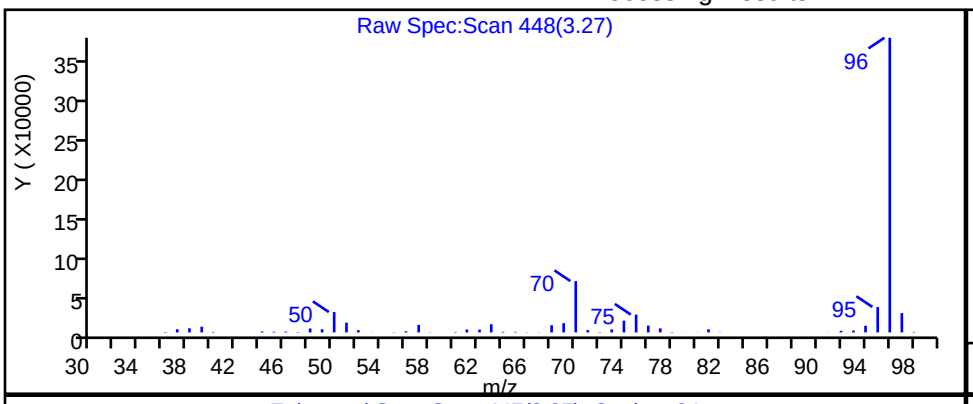
User Disabled Compound Report

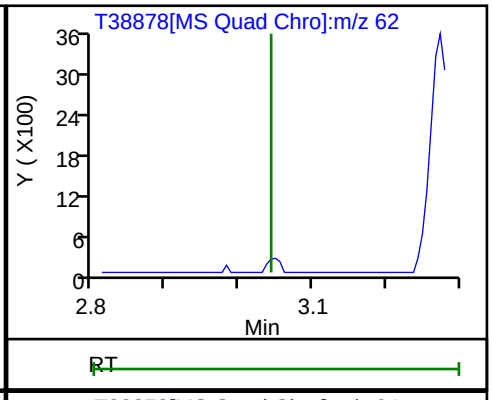
Eurofins TestAmerica, Edison

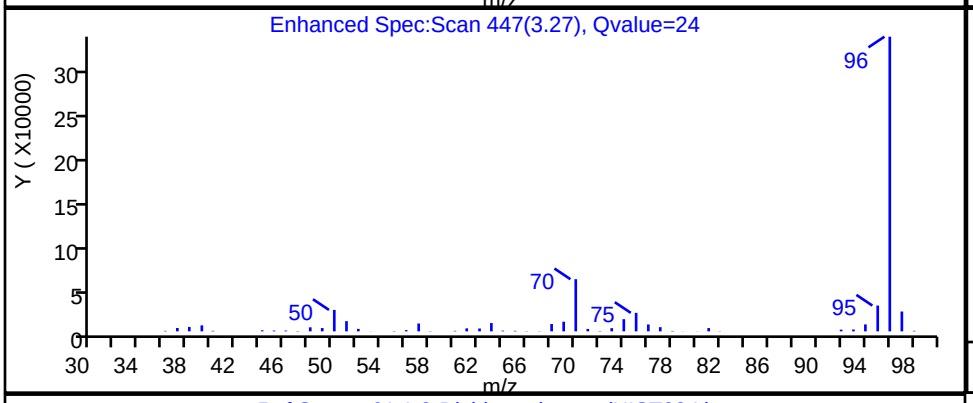
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38878.D				
Injection Date:	09-Sep-2020 02:29:44	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-2	Lab Sample ID:	460-217659-2		
Client ID:	MW-207				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

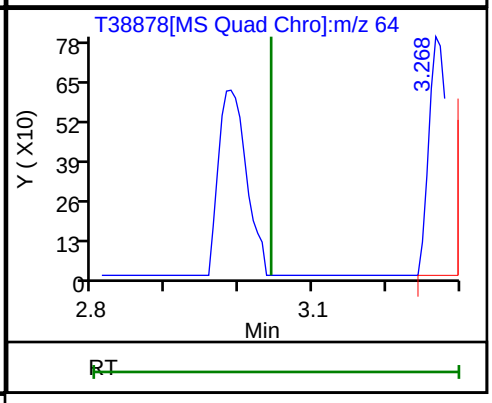
61 1,2-Dichloroethane, CAS: 107-06-2

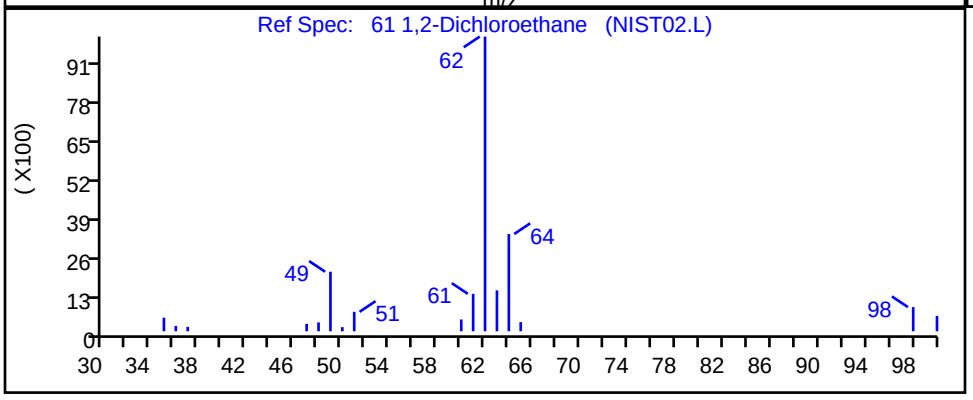
Processing Results











RT	Mass	Response	Amount
3.27	62.00	6604	1.430660
3.27	64.00	1387	

Reviewer: desais, 09-Sep-2020 07:08:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-210 Lab Sample ID: 460-217659-3

Matrix: Water Lab File ID: T38879.D

Analysis Method: 8260C Date Collected: 09/03/2020 10:35

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-210 Lab Sample ID: 460-217659-3

Matrix: Water Lab File ID: T38879.D

Analysis Method: 8260C Date Collected: 09/03/2020 10:35

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		75-123
460-00-4	4-Bromofluorobenzene	86		76-120
1868-53-7	Dibromofluoromethane (Surr)	92		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-210 Lab Sample ID: 460-217659-3

Matrix: Water Lab File ID: T38879.D

Analysis Method: 8260C Date Collected: 09/03/2020 10:35

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 02:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38879.D
Lims ID: 460-217659-A-3
Client ID: MW-210
Sample Type: Client
Inject. Date: 09-Sep-2020 02:53:40 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-A-3
Misc. Info.: 460-0116442-018
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:08:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	37055	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	46	269993	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	97	179164	46.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	96	150914	38.5	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	664415	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	33579	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	638473	50.9	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	83	491622	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	93	175007	43.2	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	93	208889	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:26:52 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38879.D

Injection Date: 09-Sep-2020 02:53:40 Instrument ID: CVOAMS15

Lims ID: 460-217659-A-3 Lab Sample ID: 460-217659-3

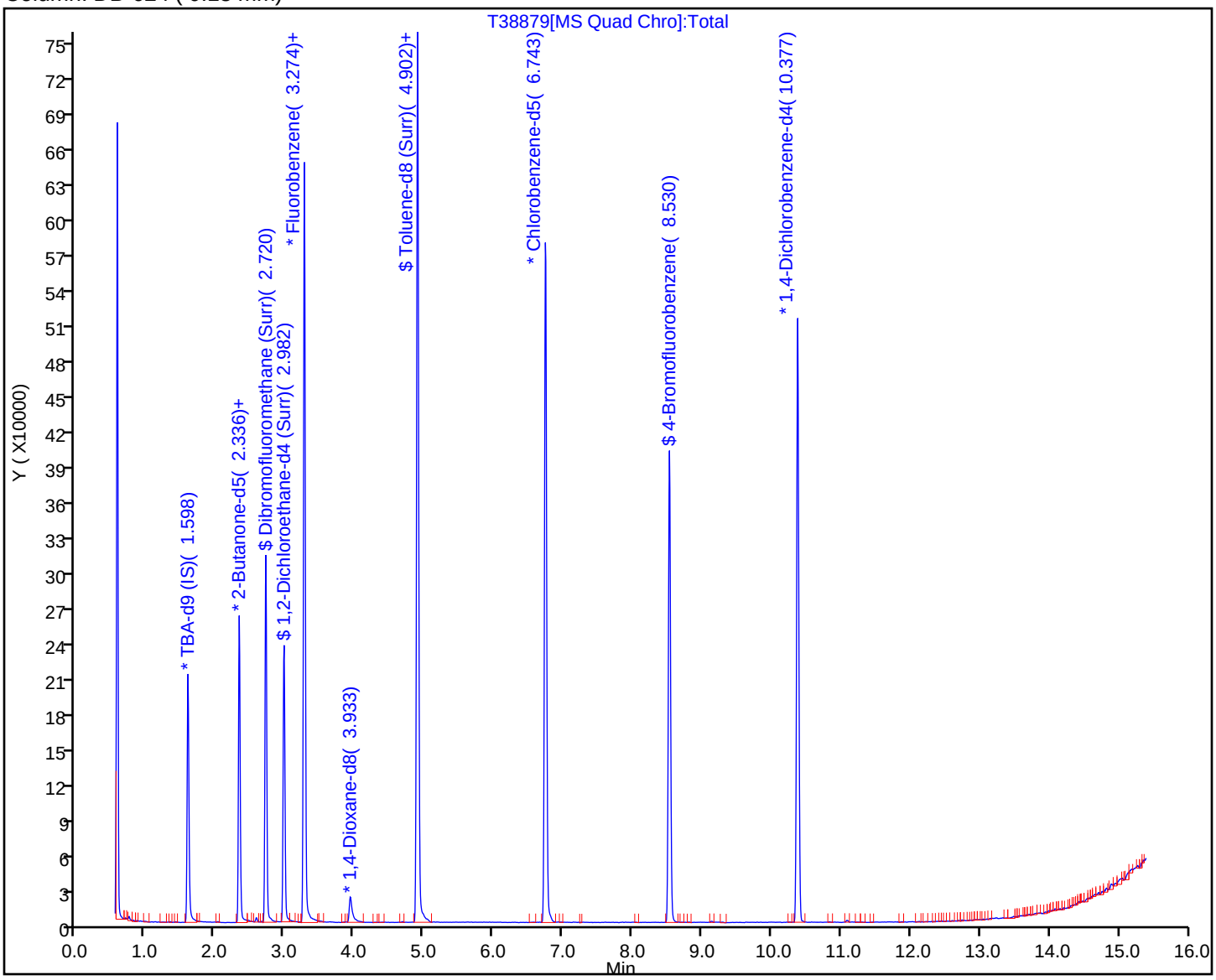
Client ID: MW-210

Operator ID: ALS Bottle#: 0 Worklist Smp#: 18

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



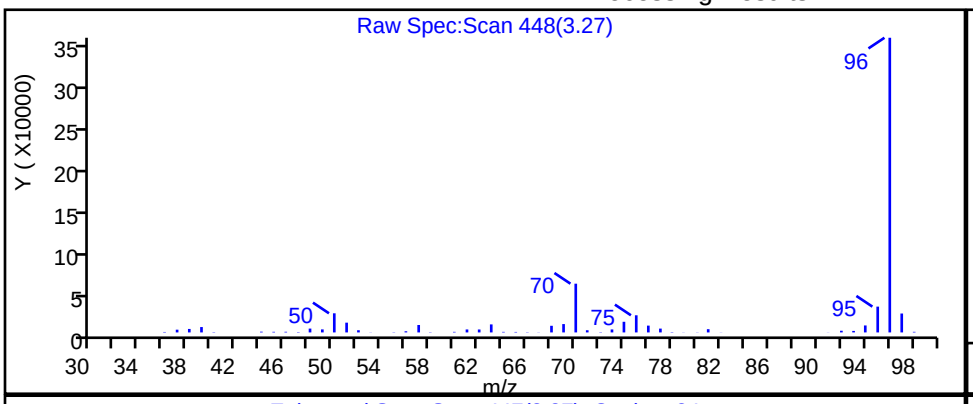
User Disabled Compound Report

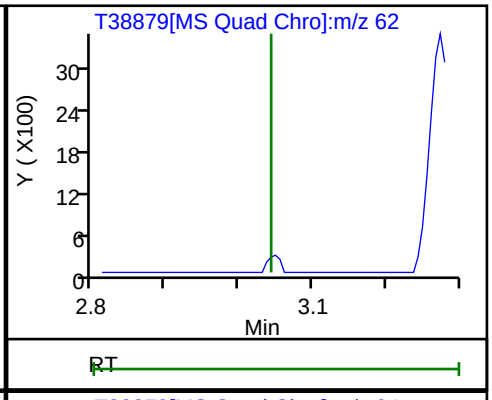
Eurofins TestAmerica, Edison

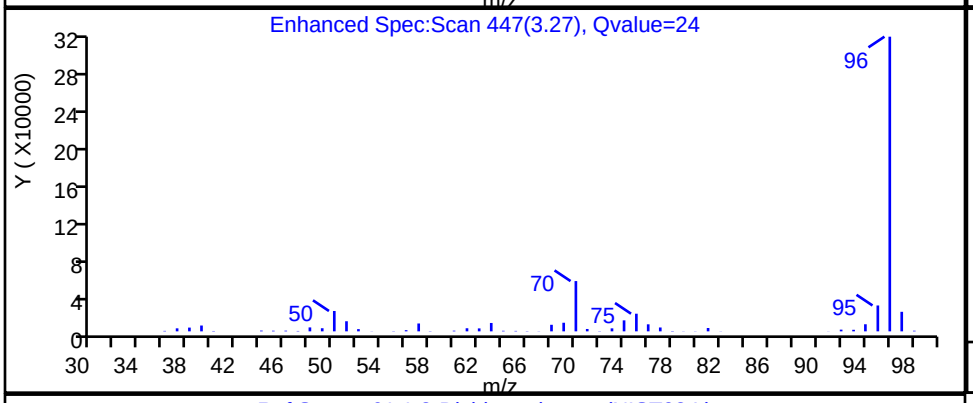
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38879.D				
Injection Date:	09-Sep-2020 02:53:40	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-3	Lab Sample ID:	460-217659-3		
Client ID:	MW-210				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

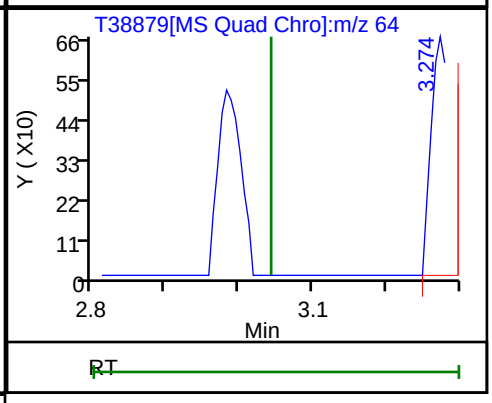
61 1,2-Dichloroethane, CAS: 107-06-2

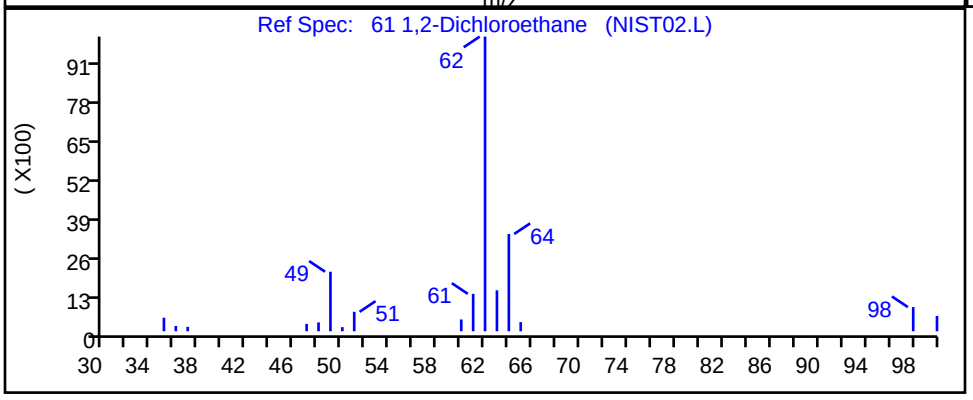
Processing Results











RT	Mass	Response	Amount
3.27	62.00	6608	1.498933
3.27	64.00	1136	

Reviewer: desais, 09-Sep-2020 07:08:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-211 Lab Sample ID: 460-217659-4

Matrix: Water Lab File ID: T38880.D

Analysis Method: 8260C Date Collected: 09/03/2020 14:00

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 03:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-211 Lab Sample ID: 460-217659-4

Matrix: Water Lab File ID: T38880.D

Analysis Method: 8260C Date Collected: 09/03/2020 14:00

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 03:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		75-123
460-00-4	4-Bromofluorobenzene	90		76-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-124
2037-26-5	Toluene-d8 (Surr)	104		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-211 Lab Sample ID: 460-217659-4

Matrix: Water Lab File ID: T38880.D

Analysis Method: 8260C Date Collected: 09/03/2020 14:00

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 03:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38880.D
Lims ID: 460-217659-A-4
Client ID: MW-211
Sample Type: Client
Inject. Date: 09-Sep-2020 03:17:40 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-A-4
Misc. Info.: 460-0116442-019
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:09:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
6 Chloromethane	50	0.726	0.726	0.000	1	741	0.2654	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	40743	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	48	255633	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	181031	44.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	96	158476	38.6	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	695814	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	33082	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	637606	52.1	
84 Toluene	91	4.981	4.982	-0.001	21	3895	0.2745	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	82	479338	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	89	178310	45.1	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	222261	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:27:23 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38880.D

Injection Date: 09-Sep-2020 03:17:40 Instrument ID: CVOAMS15

Lims ID: 460-217659-A-4 Lab Sample ID: 460-217659-4

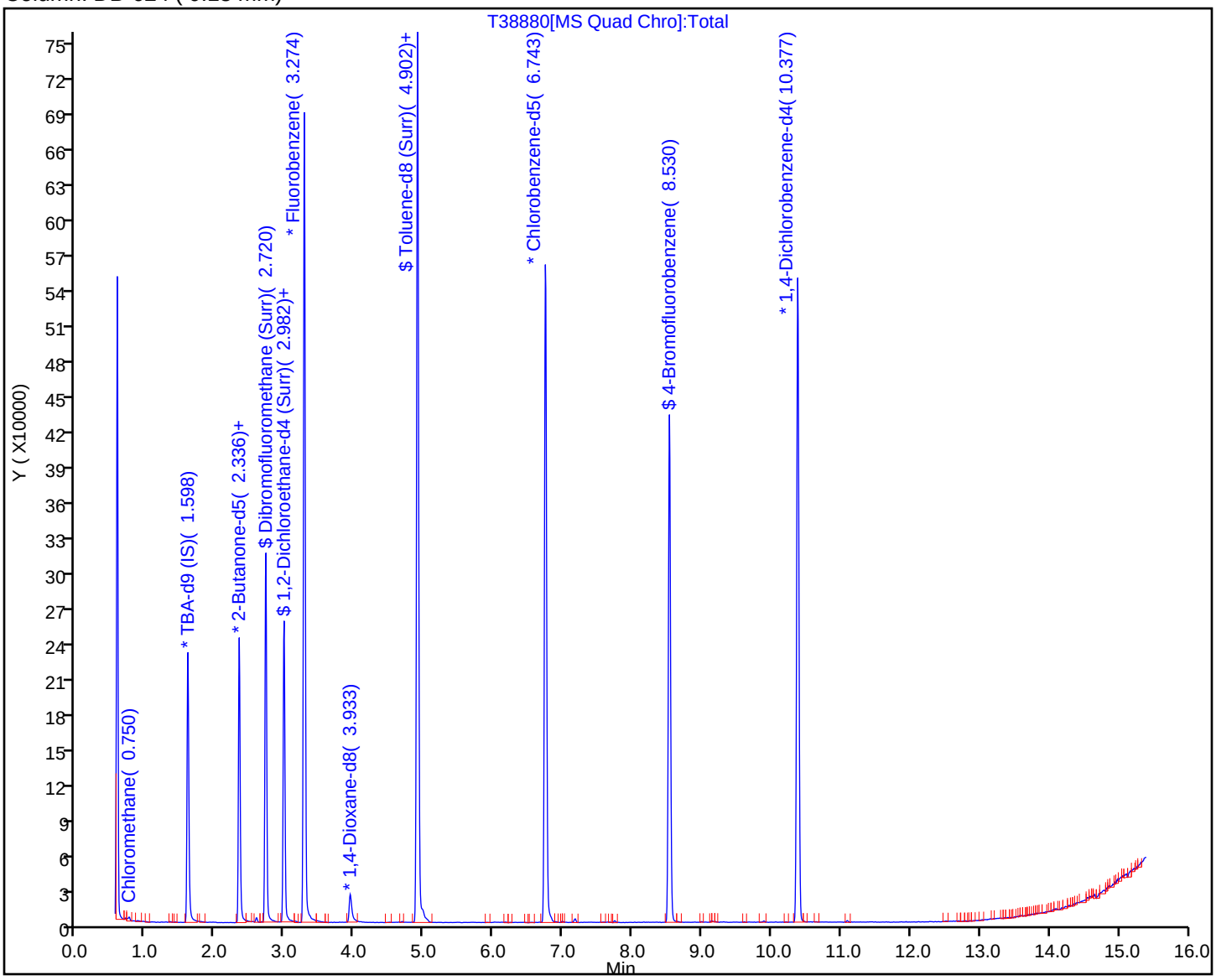
Client ID: MW-211

Operator ID: ALS Bottle#: 0 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



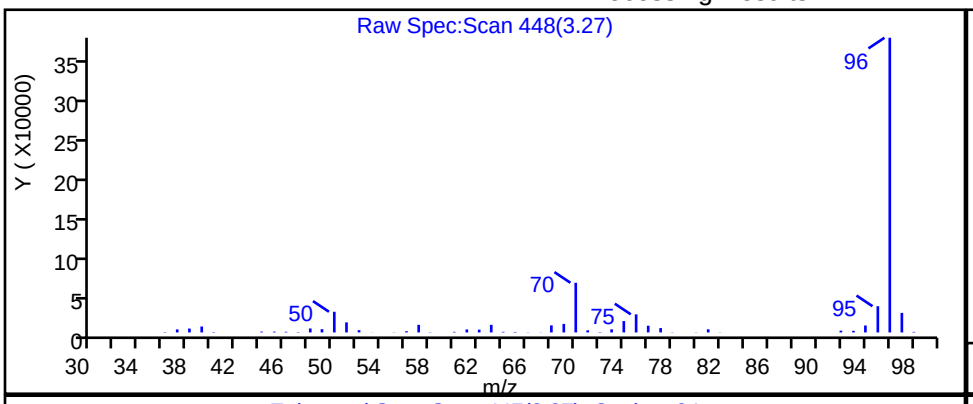
User Disabled Compound Report

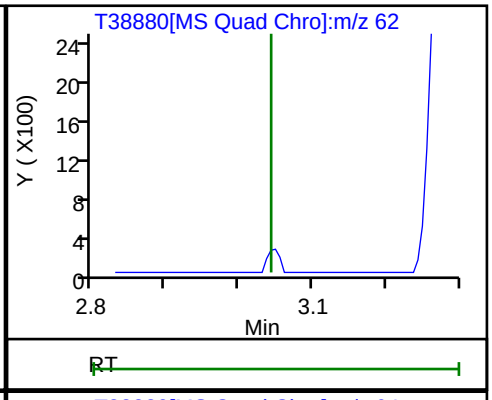
Eurofins TestAmerica, Edison

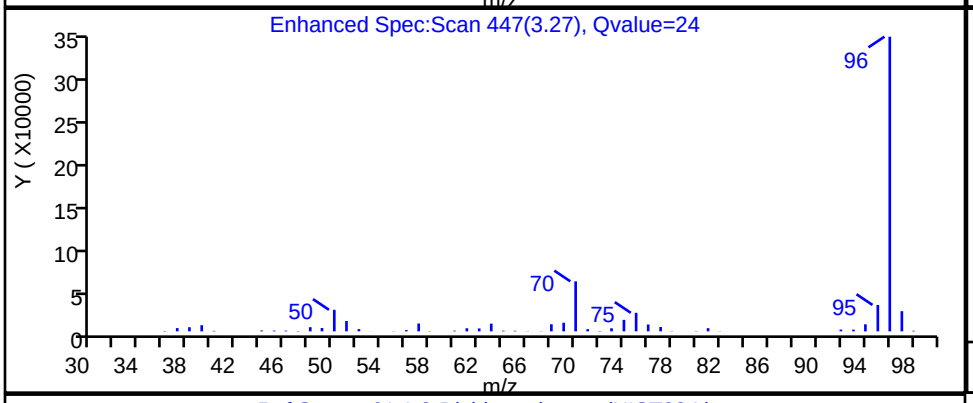
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38880.D				
Injection Date:	09-Sep-2020 03:17:40	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-4	Lab Sample ID:	460-217659-4		
Client ID:	MW-211				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

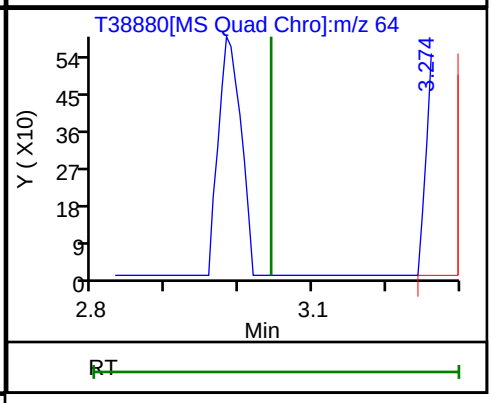
61 1,2-Dichloroethane, CAS: 107-06-2

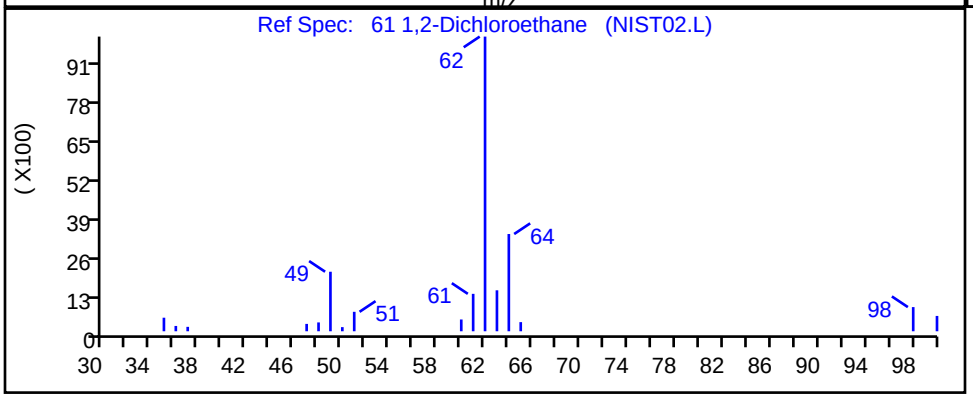
Processing Results











RT	Mass	Response	Amount
3.27	62.00	6161	1.334472
3.27	64.00	1327	

Reviewer: desais, 09-Sep-2020 07:09:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-214 Lab Sample ID: 460-217659-5

Matrix: Water Lab File ID: T38881.D

Analysis Method: 8260C Date Collected: 09/03/2020 09:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 03:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	16		1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-214 Lab Sample ID: 460-217659-5

Matrix: Water Lab File ID: T38881.D

Analysis Method: 8260C Date Collected: 09/03/2020 09:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 03:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	5.1		1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	75		75-123
460-00-4	4-Bromofluorobenzene	87		76-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-214 Lab Sample ID: 460-217659-5

Matrix: Water Lab File ID: T38881.D

Analysis Method: 8260C Date Collected: 09/03/2020 09:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 03:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 1 TIC Result Total: 8.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-43-4	Fluorodichloromethane	1.04	8.4	J N	91%

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D
Lims ID: 460-217659-A-5
Client ID: MW-214
Sample Type: Client
Inject. Date: 09-Sep-2020 03:41:42 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-A-5
Misc. Info.: 460-0116442-020
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:09:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	0.647	0.647	0.000	99	79517	15.6	
6 Chloromethane	50	0.726	0.726	0.000	11	942	0.3365	
12 Trichlorofluoromethane	101	1.067	1.068	-0.001	95	30349	5.06	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	93	36981	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	47	245452	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	180772	44.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	97	155042	37.7	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	697813	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	31304	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	606996	48.8	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	81	487204	50.0	
$ 105 4-Bromofluorobenzene	174	8.529	8.530	-0.001	93	174860	43.6	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	219276	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Eurofins TestAmerica, Edison
Tentatively Identified Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D				
Lims ID:	460-217659-A-5				
Client ID:	MW-214				
Sample Type:	Client				
Inject. Date:	09-Sep-2020 03:41:42	ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-217659-A-5				
Misc. Info.:	460-0116442-020				
Operator ID:		Instrument ID:	CVOAMS15		
Method:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	09-Sep-2020 11:20:41	Calib Date:	04-Sep-2020 15:01:54		
Tic RT Window:	0.000 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromfs\Edison\Database\NIST02.L				
Min. Match:	70				
Column 1 :	DB-624 (0.18 mm)		Det: MS Quad		
Process Host:	CTX1022				
First Level Reviewer: desais		Date:	09-Sep-2020 07:09:29		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
75-43-4	Fluorodichloromethane							
1.043	216814	8.40	65	91	4399	CHCl2F	102	

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 65 Fluorobenzene	3.274	1290335	50.0

QC Flag Legend

Processing Flags

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:28:02 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D

Injection Date: 09-Sep-2020 03:41:42 Instrument ID: CVOAMS15

Lims ID: 460-217659-A-5 Lab Sample ID: 460-217659-5

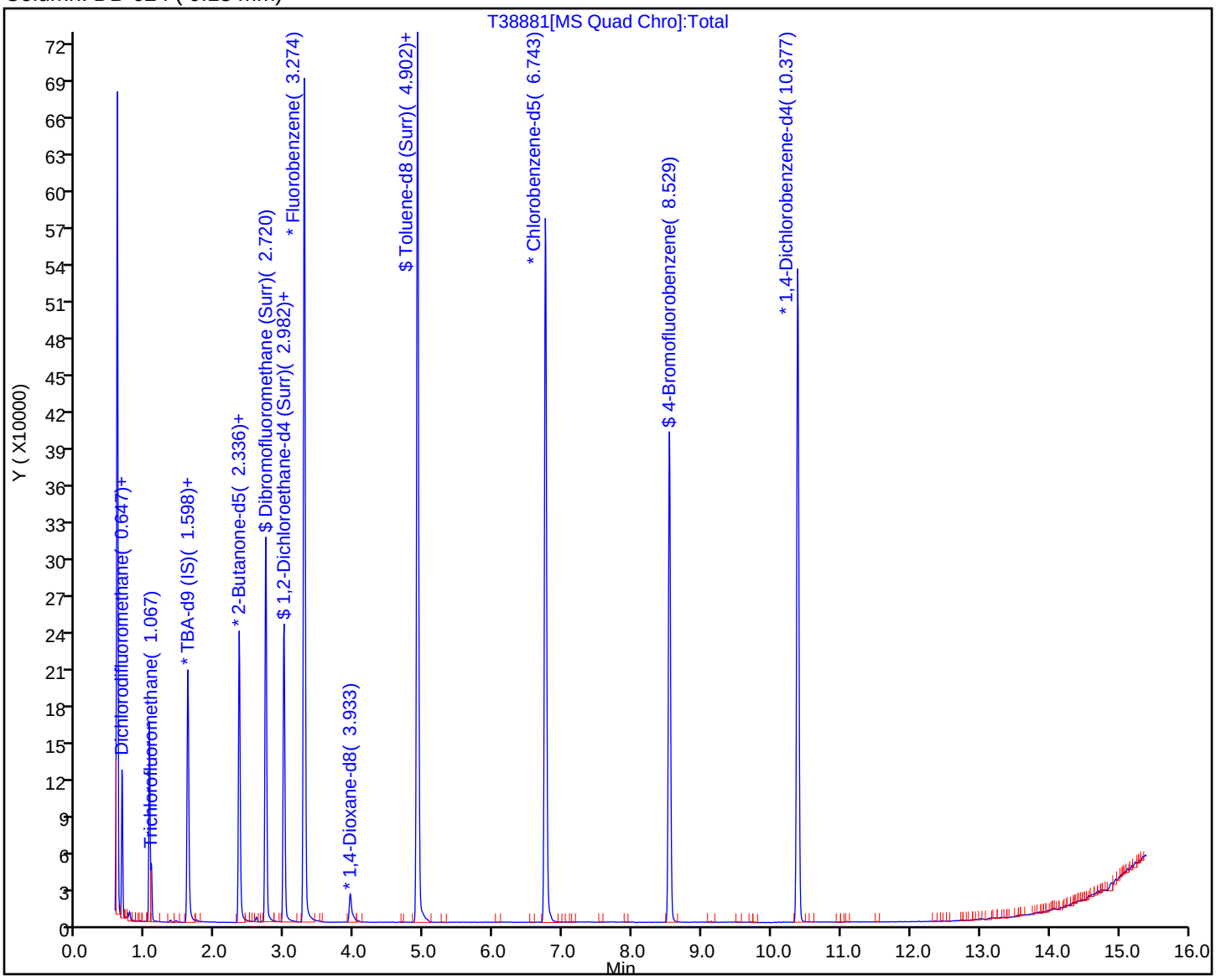
Client ID: MW-214

Operator ID: ALS Bottle#: 0 Worklist Smp#: 20

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

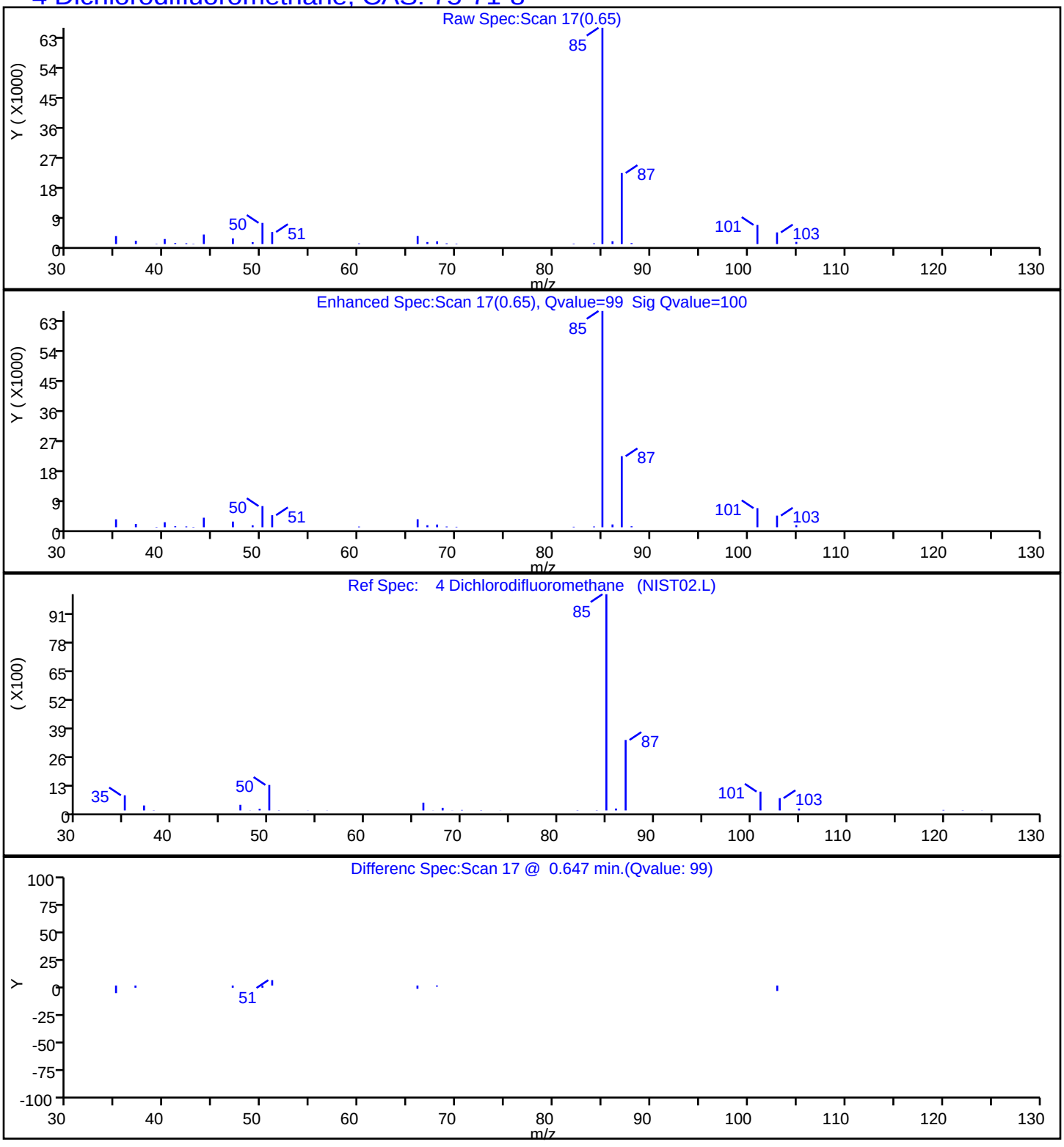
Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D				
Injection Date:	09-Sep-2020 03:41:42	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-5	Lab Sample ID:	460-217659-5		
Client ID:	MW-214				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

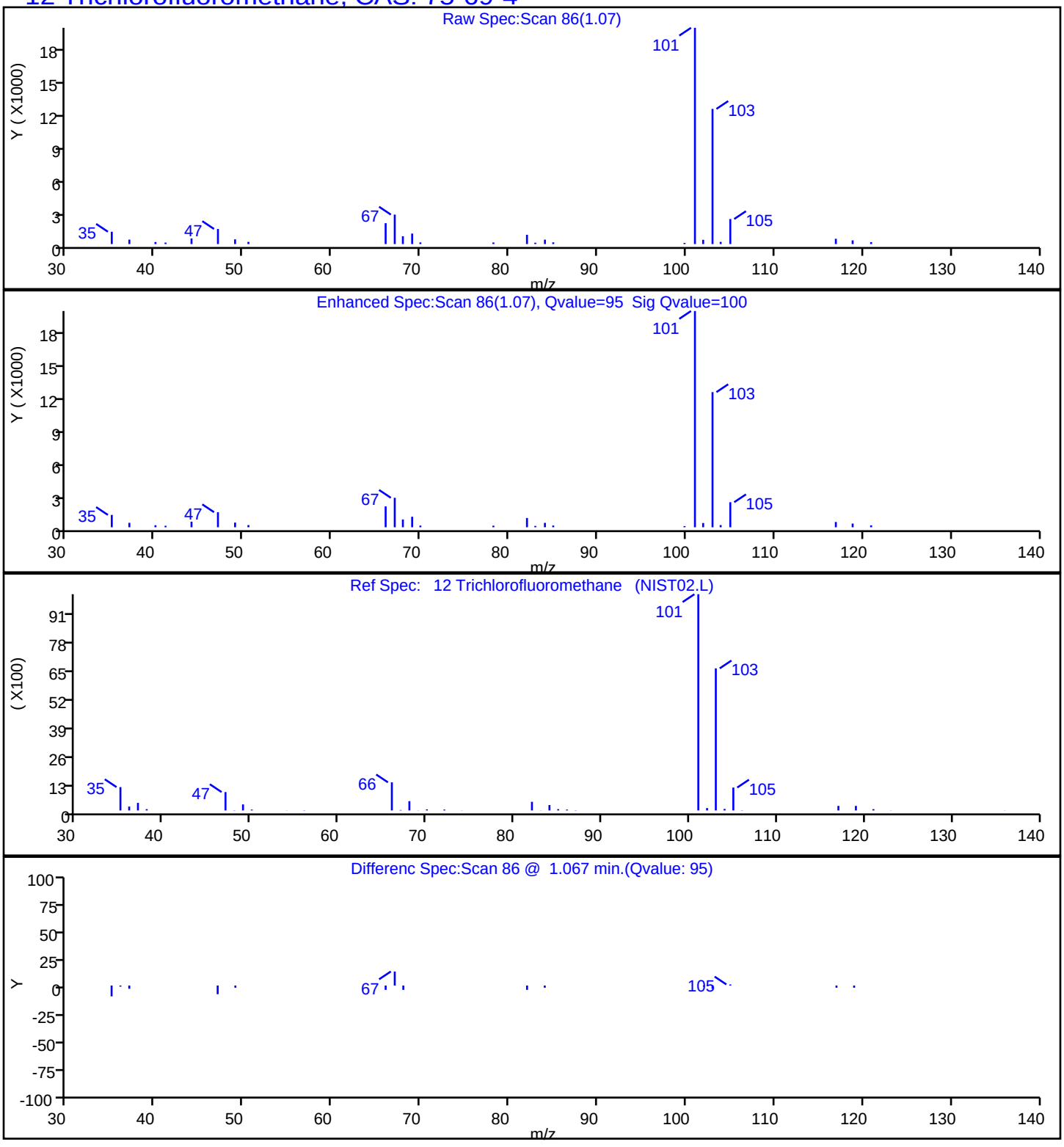
4 Dichlorodifluoromethane, CAS: 75-71-8



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D		
Injection Date:	09-Sep-2020 03:41:42	Instrument ID:	CVOAMS15
Lims ID:	460-217659-A-5	Lab Sample ID:	460-217659-5
Client ID:	MW-214		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4



Eurofins TestAmerica, Edison

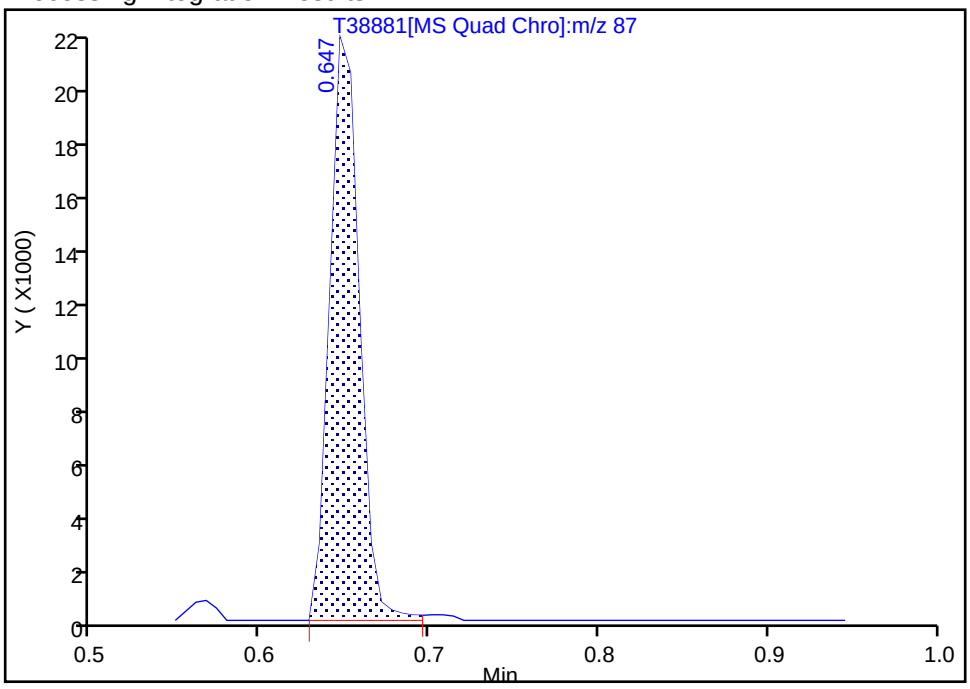
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D				
Injection Date:	09-Sep-2020 03:41:42	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-5	Lab Sample ID:	460-217659-5		
Client ID:	MW-214				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

4 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 2

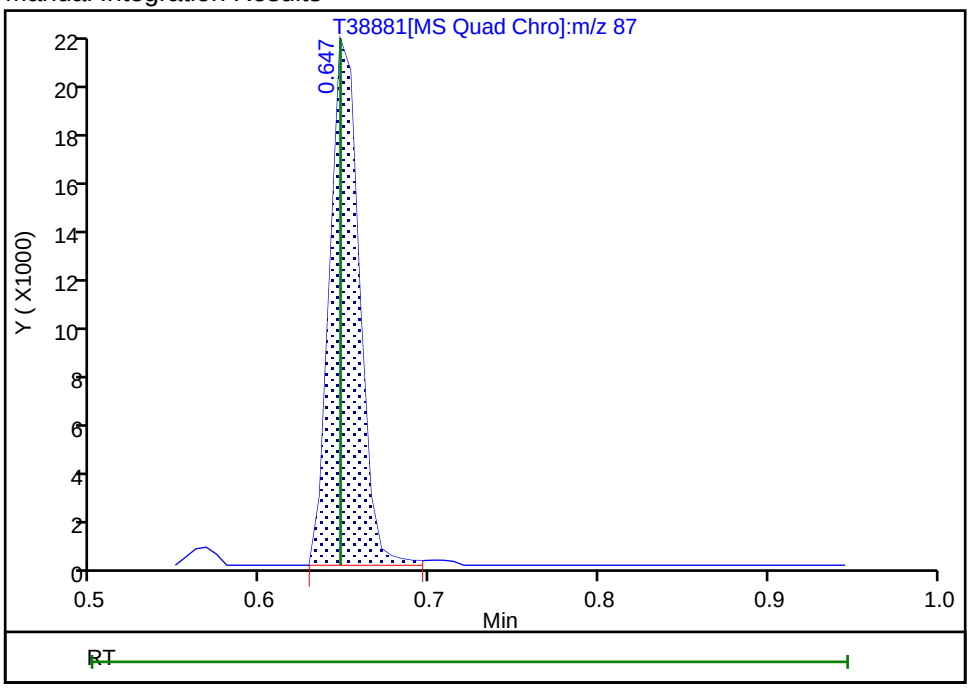
Processing Integration Results

RT: 0.65
Area: 26181
Amount: 15.620131
Amount Units: ug/l



Manual Integration Results

RT: 0.65
Area: 26181
Amount: 15.620131
Amount Units: ug/l



Reviewer: desais, 09-Sep-2020 07:09:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

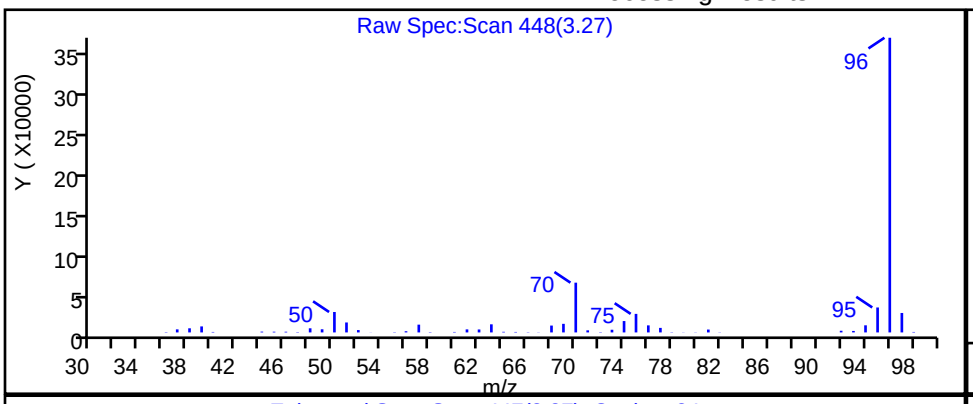
User Disabled Compound Report

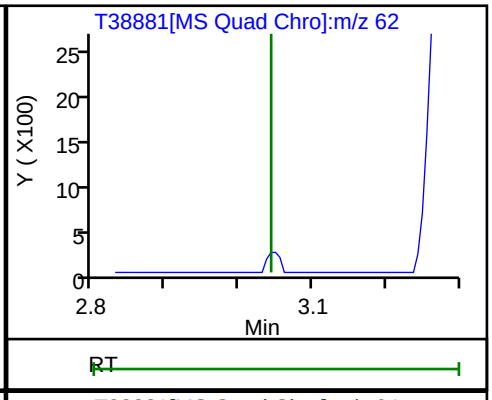
Eurofins TestAmerica, Edison

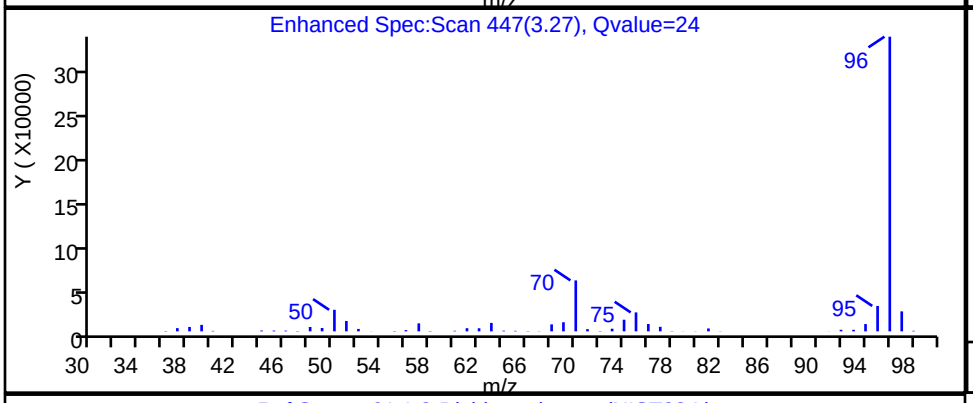
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D				
Injection Date:	09-Sep-2020 03:41:42	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-5	Lab Sample ID:	460-217659-5		
Client ID:	MW-214				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

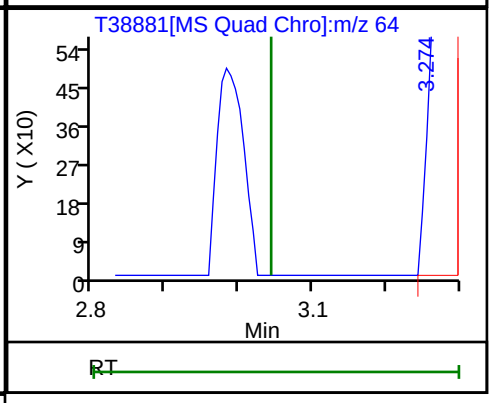
61 1,2-Dichloroethane, CAS: 107-06-2

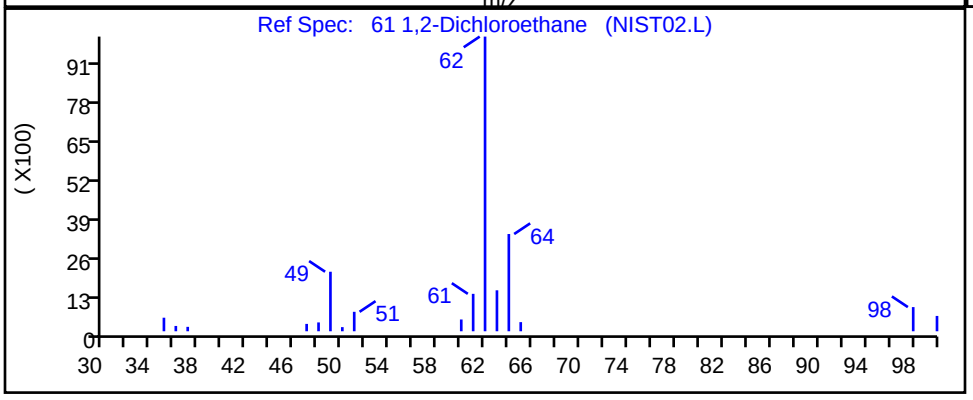
Processing Results











RT	Mass	Response	Amount
3.27	62.00	6812	1.471252
3.27	64.00	1367	

Reviewer: desais, 09-Sep-2020 07:09:23

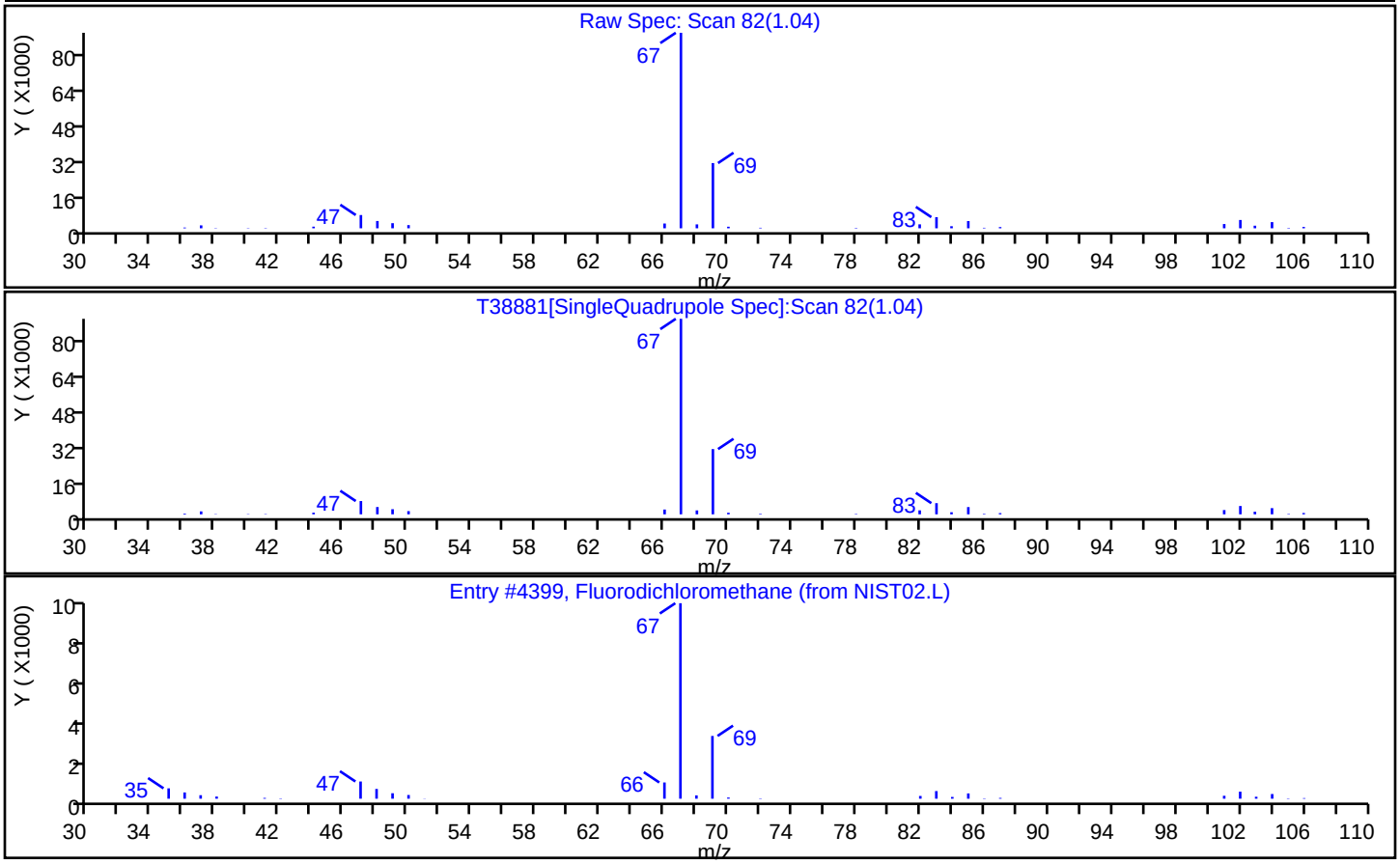
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38881.D

Injection Date:	09-Sep-2020 03:41:42	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-5	Lab Sample ID:	460-217659-5		
Client ID:	MW-214				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:		Detector	MS Quad		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Fluorodichloromethane	75-43-4	NIST02.L	4399	CHCl2F	102	91



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-216 Lab Sample ID: 460-217659-6

Matrix: Water Lab File ID: T38882.D

Analysis Method: 8260C Date Collected: 09/03/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 04:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	3.9		1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-216 Lab Sample ID: 460-217659-6

Matrix: Water Lab File ID: T38882.D

Analysis Method: 8260C Date Collected: 09/03/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 04:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	6.9		1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		75-123
460-00-4	4-Bromofluorobenzene	83		76-120
1868-53-7	Dibromofluoromethane (Surr)	86		77-124
2037-26-5	Toluene-d8 (Surr)	90		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-216 Lab Sample ID: 460-217659-6

Matrix: Water Lab File ID: T38882.D

Analysis Method: 8260C Date Collected: 09/03/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 04:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38882.D
Lims ID: 460-217659-B-6
Client ID: MW-216
Sample Type: Client
Inject. Date: 09-Sep-2020 04:05:50 ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-B-6
Misc. Info.: 460-0116442-021
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:31:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	0.647	0.647	0.000	99	20856	3.88	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	96	43700	6.91	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	38178	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	47	253082	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	183889	42.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	90	172886	39.8	
* 65 Fluorobenzene	96	3.275	3.275	0.000	100	736460	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	30494	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	590467	45.2	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	84	511086	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	93	175476	41.7	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	218586	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:28:43 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38882.D

Injection Date: 09-Sep-2020 04:05:50 Instrument ID: CVOAMS15

Lims ID: 460-217659-B-6 Lab Sample ID: 460-217659-6

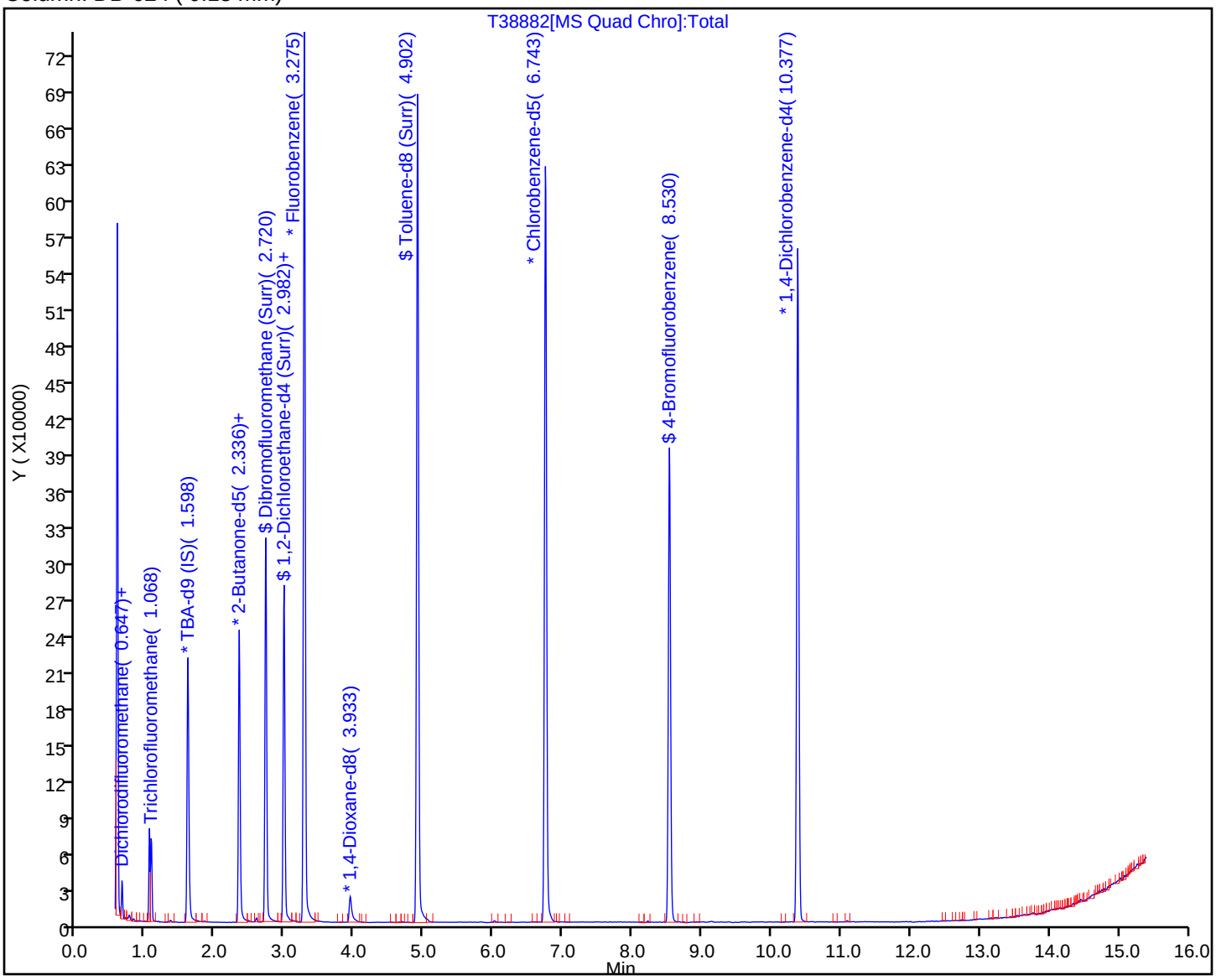
Client ID: MW-216

Operator ID: ALS Bottle#: 0 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

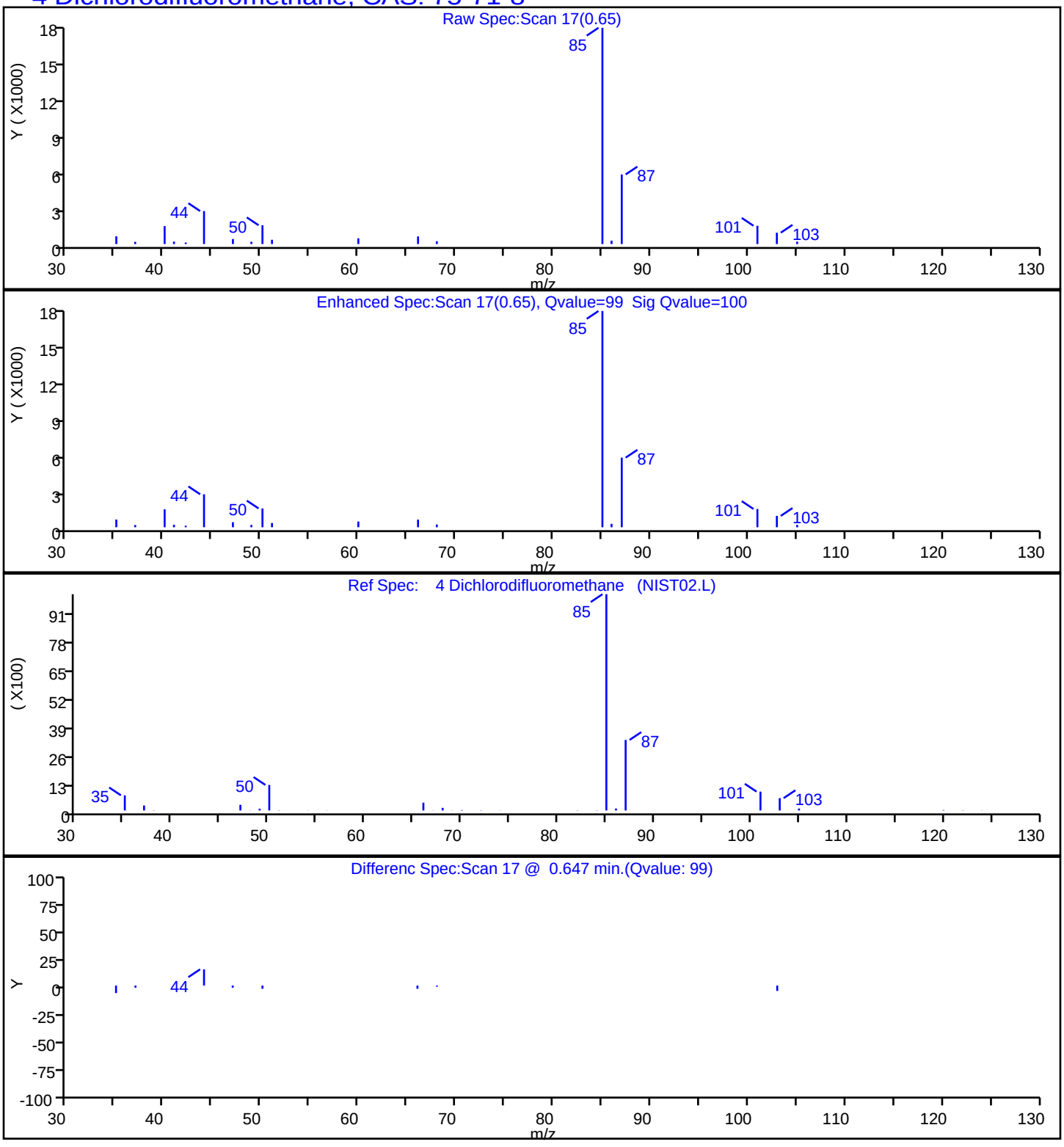


Report Date: 09-Sep-2020 11:28:43 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38882.D				
Injection Date:	09-Sep-2020 04:05:50	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-B-6	Lab Sample ID:	460-217659-6		
Client ID:	MW-216				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

4 Dichlorodifluoromethane, CAS: 75-71-8

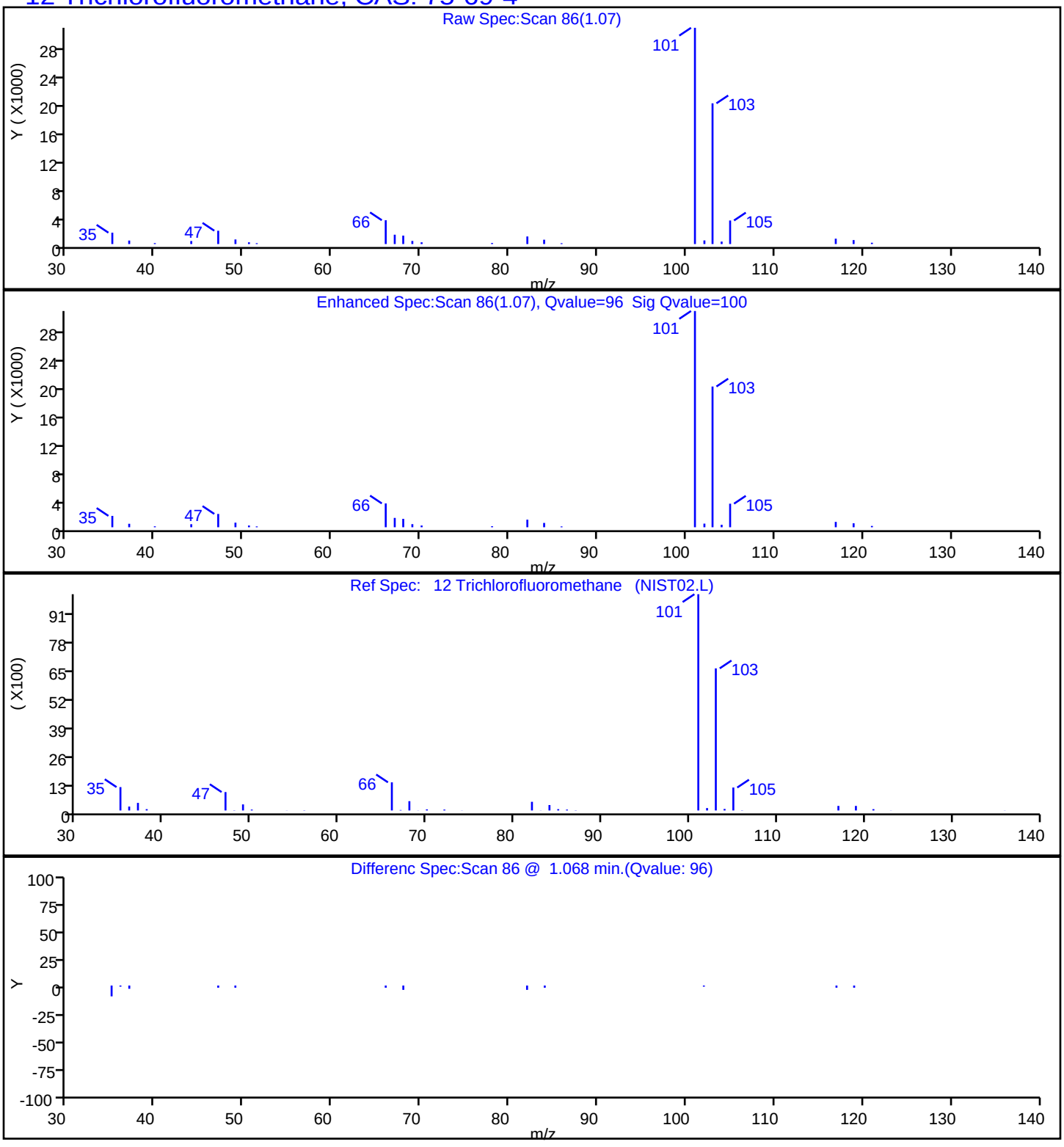


Report Date: 09-Sep-2020 11:28:43 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38882.D				
Injection Date:	09-Sep-2020 04:05:50	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-B-6	Lab Sample ID:	460-217659-6		
Client ID:	MW-216				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4



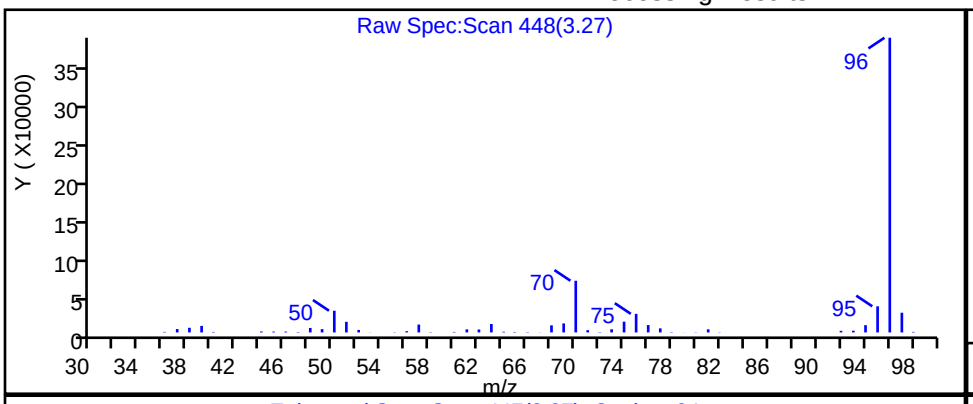
User Disabled Compound Report

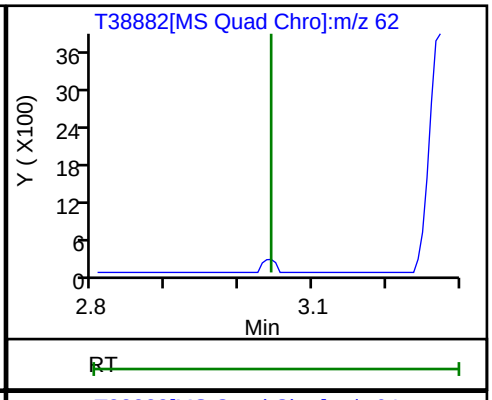
Eurofins TestAmerica, Edison

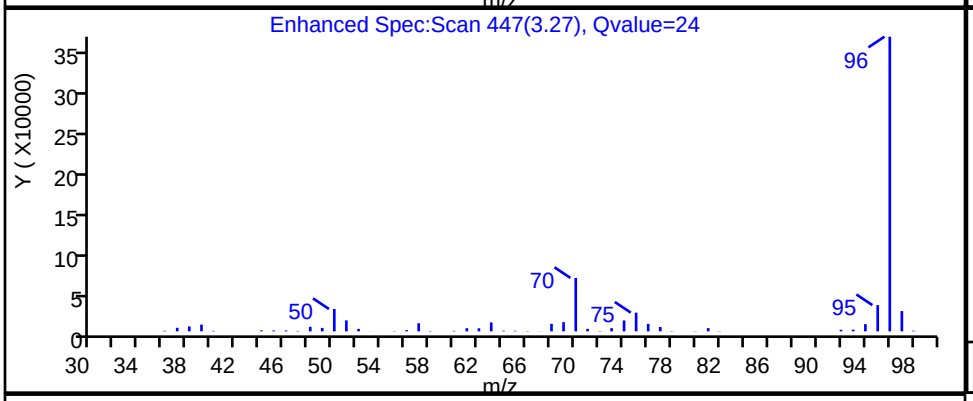
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38882.D				
Injection Date:	09-Sep-2020 04:05:50	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-B-6	Lab Sample ID:	460-217659-6		
Client ID:	MW-216				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

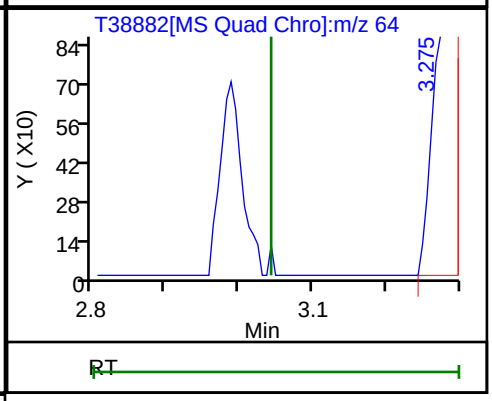
61 1,2-Dichloroethane, CAS: 107-06-2

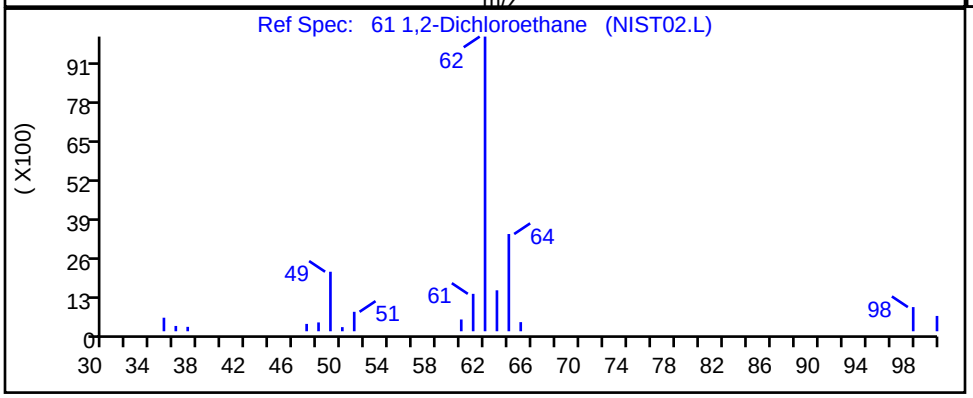
Processing Results











RT	Mass	Response	Amount
3.27	62.00	7140	1.461169
3.27	64.00	1463	

Reviewer: desais, 09-Sep-2020 07:31:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-217 Lab Sample ID: 460-217659-7

Matrix: Water Lab File ID: T38883.D

Analysis Method: 8260C Date Collected: 09/03/2020 12:35

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 04:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-217 Lab Sample ID: 460-217659-7

Matrix: Water Lab File ID: T38883.D

Analysis Method: 8260C Date Collected: 09/03/2020 12:35

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 04:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	5.6		1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		75-123
460-00-4	4-Bromofluorobenzene	84		76-120
1868-53-7	Dibromofluoromethane (Surr)	83		77-124
2037-26-5	Toluene-d8 (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-217 Lab Sample ID: 460-217659-7

Matrix: Water Lab File ID: T38883.D

Analysis Method: 8260C Date Collected: 09/03/2020 12:35

Sample wt/vol: 5(mL) Date Analyzed: 09/09/2020 04:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38883.D
Lims ID: 460-217659-B-7
Client ID: MW-217
Sample Type: Client
Inject. Date: 09-Sep-2020 04:29:45 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-B-7
Misc. Info.: 460-0116442-022
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: desais Date: 09-Sep-2020 07:33:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Dichlorodifluoromethane	85	0.647	0.647	0.000	1	807	0.1488	
12 Trichlorofluoromethane	101	1.067	1.068	-0.001	95	35653	5.58	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	39488	1000.0	
* 42 2-Butanone-d5	46	2.335	2.336	-0.001	47	229328	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.719	2.720	-0.001	96	179161	41.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.981	2.982	-0.001	89	167619	38.2	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	743476	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.007	1	33444	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	576698	44.4	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	84	508602	50.0	
$ 105 4-Bromofluorobenzene	174	8.529	8.530	-0.001	90	175611	41.9	
* 120 1,4-Dichlorobenzene-d4	152	10.376	10.377	-0.001	93	213039	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:29:11 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38883.D

Injection Date: 09-Sep-2020 04:29:45 Instrument ID: CVOAMS15

Lims ID: 460-217659-B-7 Lab Sample ID: 460-217659-7

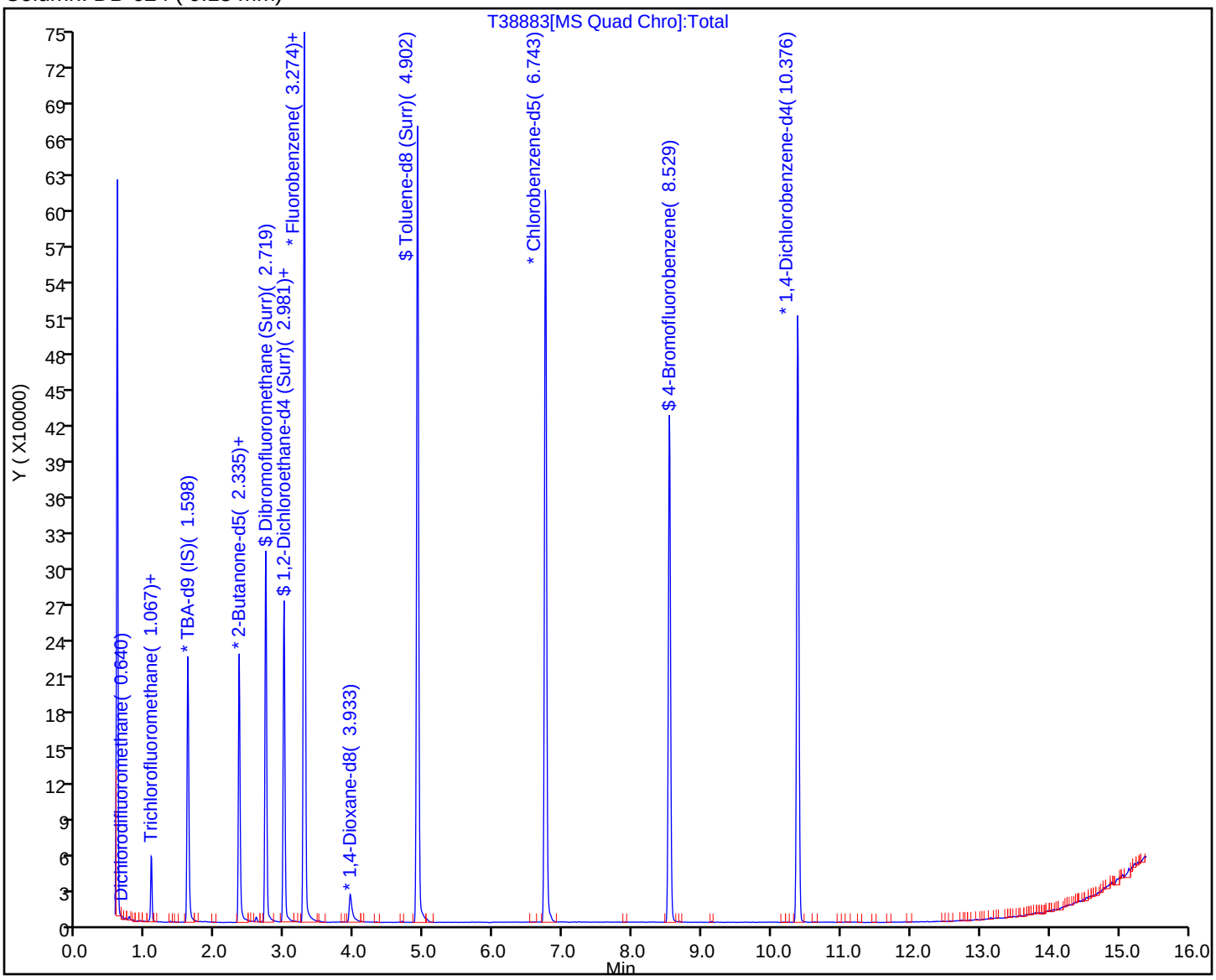
Client ID: MW-217

Operator ID: ALS Bottle#: 0 Worklist Smp#: 22

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

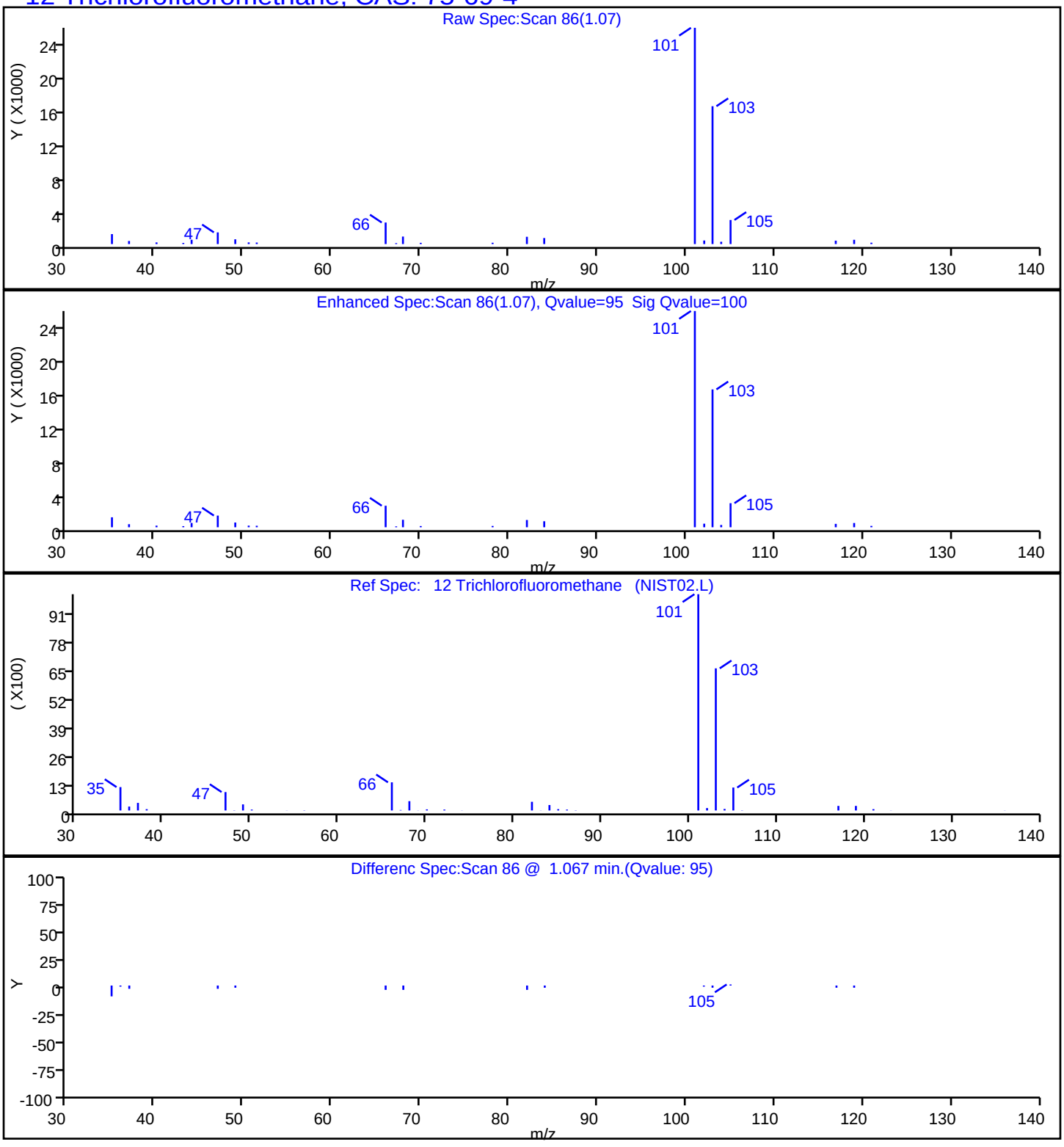
Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38883.D				
Injection Date:	09-Sep-2020 04:29:45	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-B-7	Lab Sample ID:	460-217659-7		
Client ID:	MW-217				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4



Eurofins TestAmerica, Edison

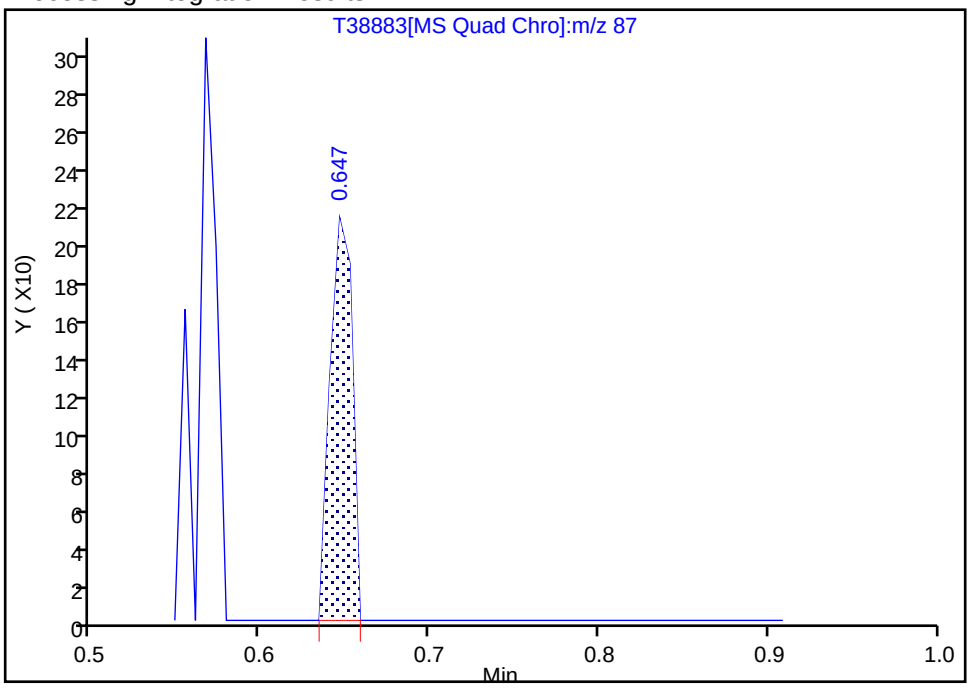
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38883.D				
Injection Date:	09-Sep-2020 04:29:45	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-B-7	Lab Sample ID:	460-217659-7		
Client ID:	MW-217				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

4 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 2

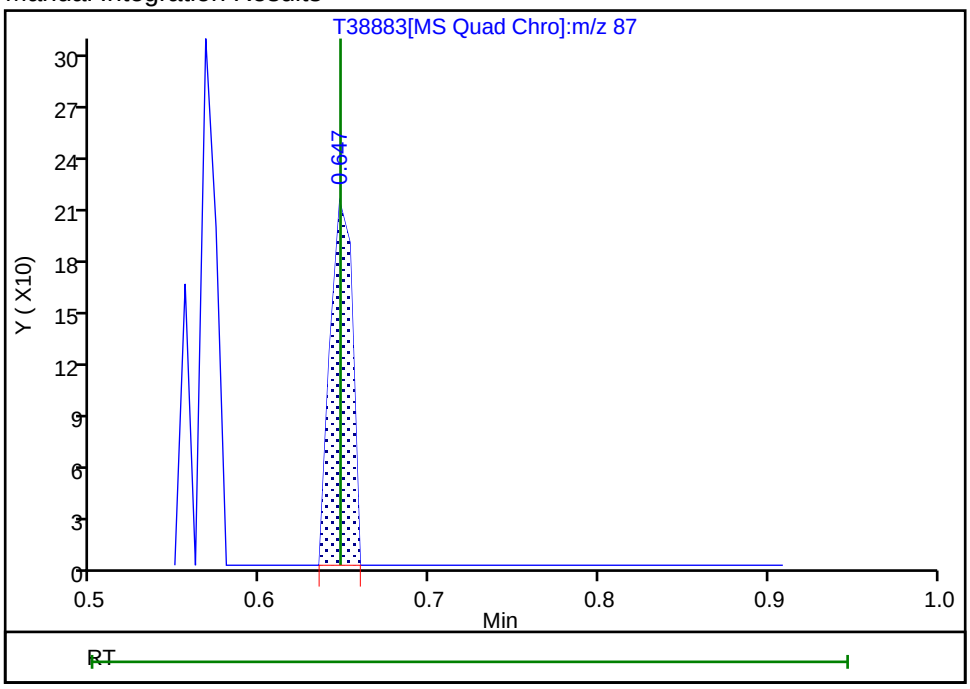
Processing Integration Results

RT: 0.65
Area: 192
Amount: 0.148789
Amount Units: ug/l



Manual Integration Results

RT: 0.65
Area: 192
Amount: 0.148789
Amount Units: ug/l



Reviewer: desais, 09-Sep-2020 07:33:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217659-8

Matrix: Water Lab File ID: T38870.D

Analysis Method: 8260C Date Collected: 09/03/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 23:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217659-8

Matrix: Water Lab File ID: T38870.D

Analysis Method: 8260C Date Collected: 09/03/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 23:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	1.0		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	72	X	75-123
460-00-4	4-Bromofluorobenzene	93		76-120
1868-53-7	Dibromofluoromethane (Surr)	85		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217659-8

Matrix: Water Lab File ID: T38870.D

Analysis Method: 8260C Date Collected: 09/03/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 23:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38870.D
Lims ID: 460-217659-B-8
Client ID: FB
Sample Type: Client
Inject. Date: 08-Sep-2020 23:18:23 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-B-8
Misc. Info.: 460-0116442-009
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: parekhv Date: 08-Sep-2020 23:42:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Methylene Chloride	84	1.567	1.568	-0.001	64	4035	1.02	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	41004	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	44	234795	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	186193	42.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	97	159240	36.1	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	747690	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	33142	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	606415	48.8	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	81	486532	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	92	185498	46.3	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	223435	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:23:54 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38870.D

Injection Date: 08-Sep-2020 23:18:23 Instrument ID: CVOAMS15

Lims ID: 460-217659-B-8 Lab Sample ID: 460-217659-8

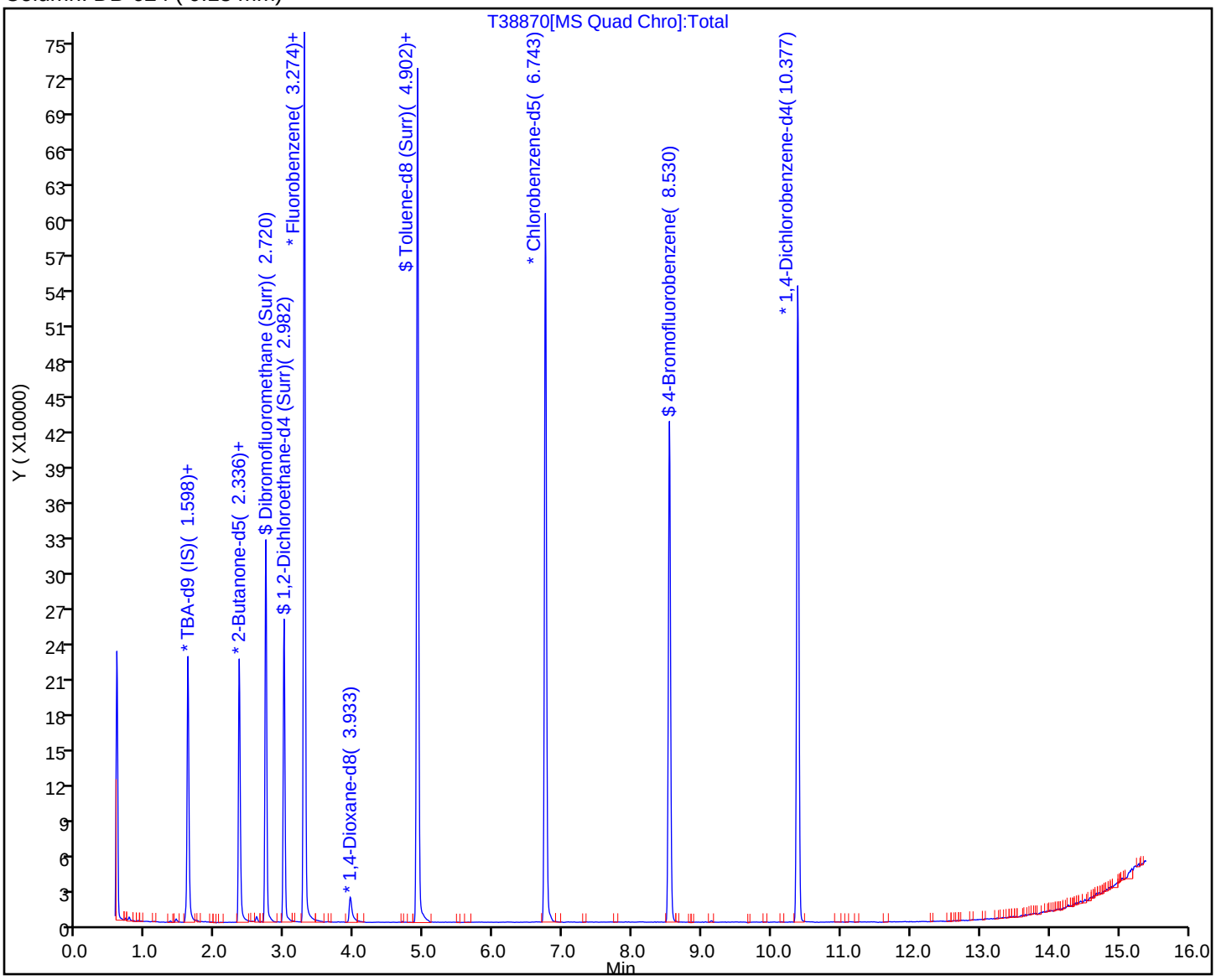
Client ID: FB

Operator ID: ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

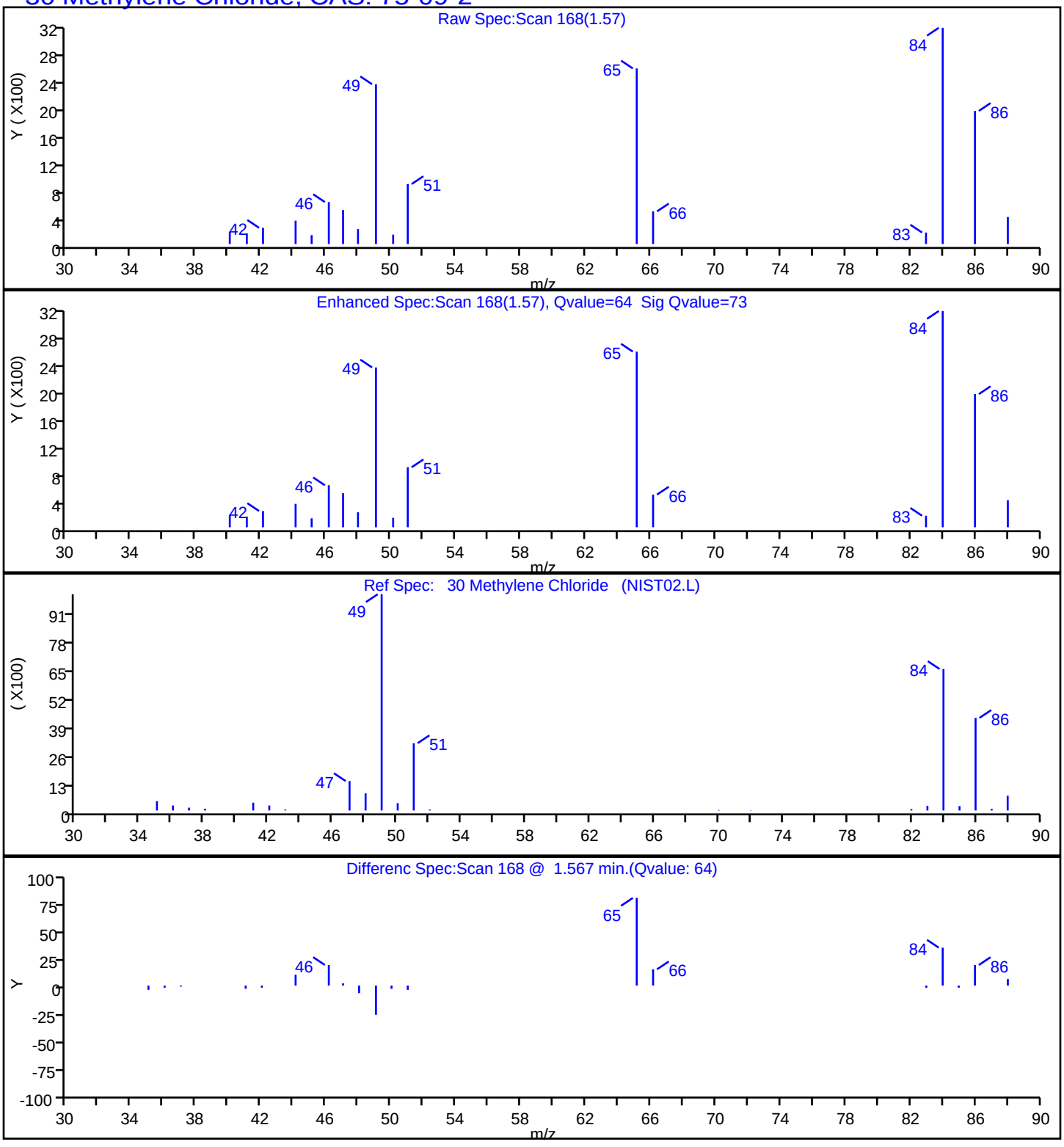
Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38870.D		
Injection Date:	08-Sep-2020 23:18:23	Instrument ID:	CVOAMS15
Lims ID:	460-217659-B-8	Lab Sample ID:	460-217659-8
Client ID:	FB		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

30 Methylene Chloride, CAS: 75-09-2



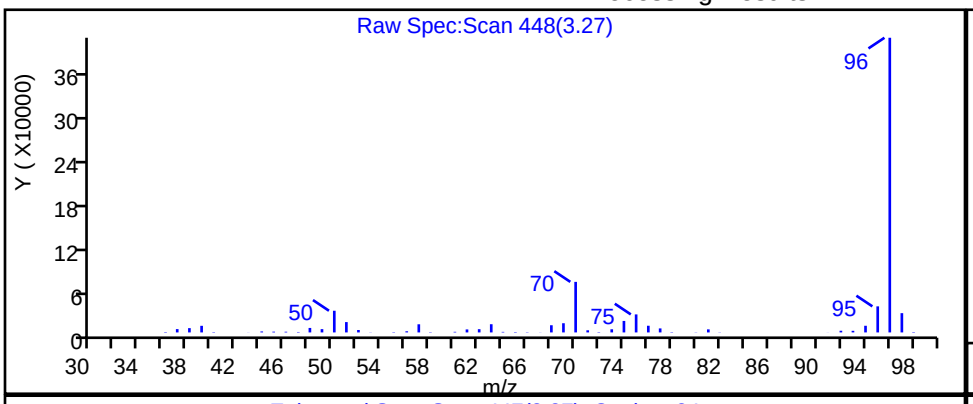
User Disabled Compound Report

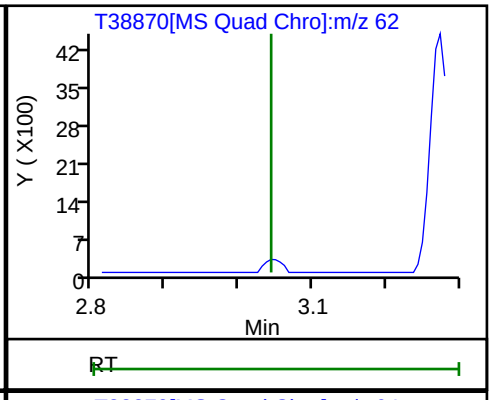
Eurofins TestAmerica, Edison

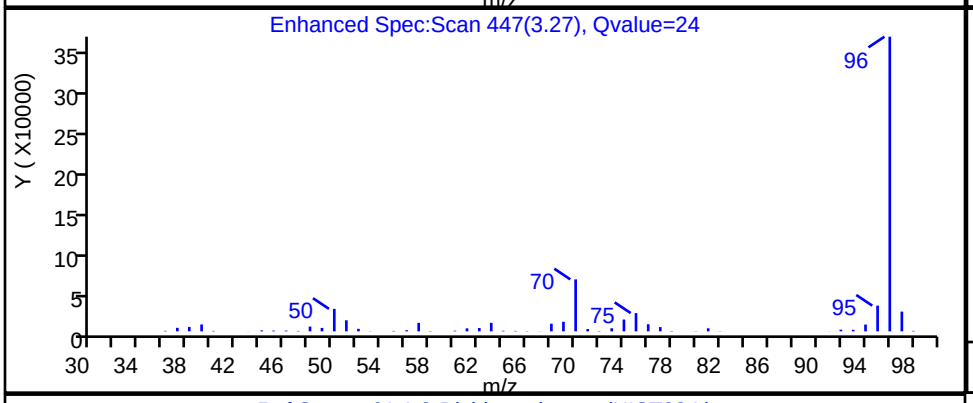
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38870.D				
Injection Date:	08-Sep-2020 23:18:23	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-B-8	Lab Sample ID:	460-217659-8		
Client ID:	FB				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

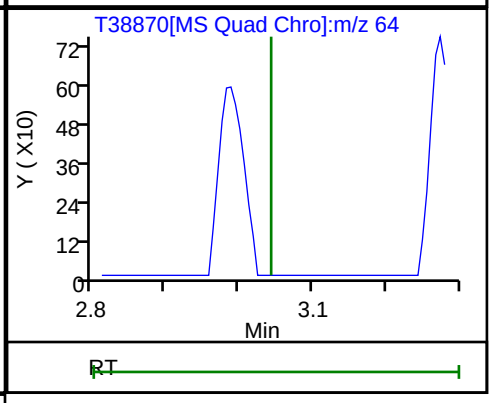
61 1,2-Dichloroethane, CAS: 107-06-2

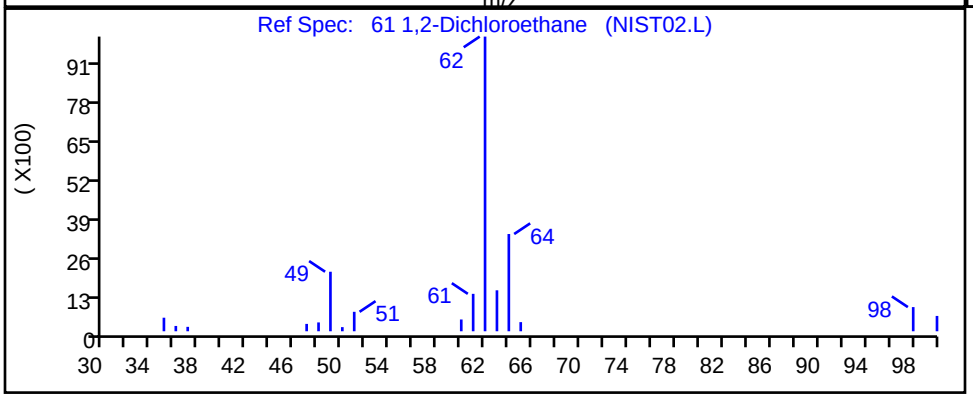
Processing Results











RT	Mass	Response	Amount
3.27	62.00	8001	1.612777
3.27	64.00	1416	

Reviewer: parekhv, 08-Sep-2020 23:42:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 460-217659-9

Matrix: Water Lab File ID: T38871.D

Analysis Method: 8260C Date Collected: 09/03/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 23:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 460-217659-9

Matrix: Water Lab File ID: T38871.D

Analysis Method: 8260C Date Collected: 09/03/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 23:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U *	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		75-123
460-00-4	4-Bromofluorobenzene	87		76-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-124
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: TB Lab Sample ID: 460-217659-9

Matrix: Water Lab File ID: T38871.D

Analysis Method: 8260C Date Collected: 09/03/2020 15:00

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 23:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38871.D
Lims ID: 460-217659-A-9
Client ID: TB
Sample Type: Client
Inject. Date: 08-Sep-2020 23:42:26 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-217659-A-9
Misc. Info.: 460-0116442-010
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: parekhv Date: 09-Sep-2020 00:35:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
9 Bromomethane	94	0.909	0.909	0.000	1	358	0.2207	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	39187	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	47	252511	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	182332	46.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	96	155296	39.5	
* 65 Fluorobenzene	96	3.275	3.275	-0.001	100	667370	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	34035	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	608318	47.2	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	82	504785	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	90	181336	43.6	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	217840	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:24:17 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38871.D

Injection Date: 08-Sep-2020 23:42:26 Instrument ID: CVOAMS15

Lims ID: 460-217659-A-9 Lab Sample ID: 460-217659-9

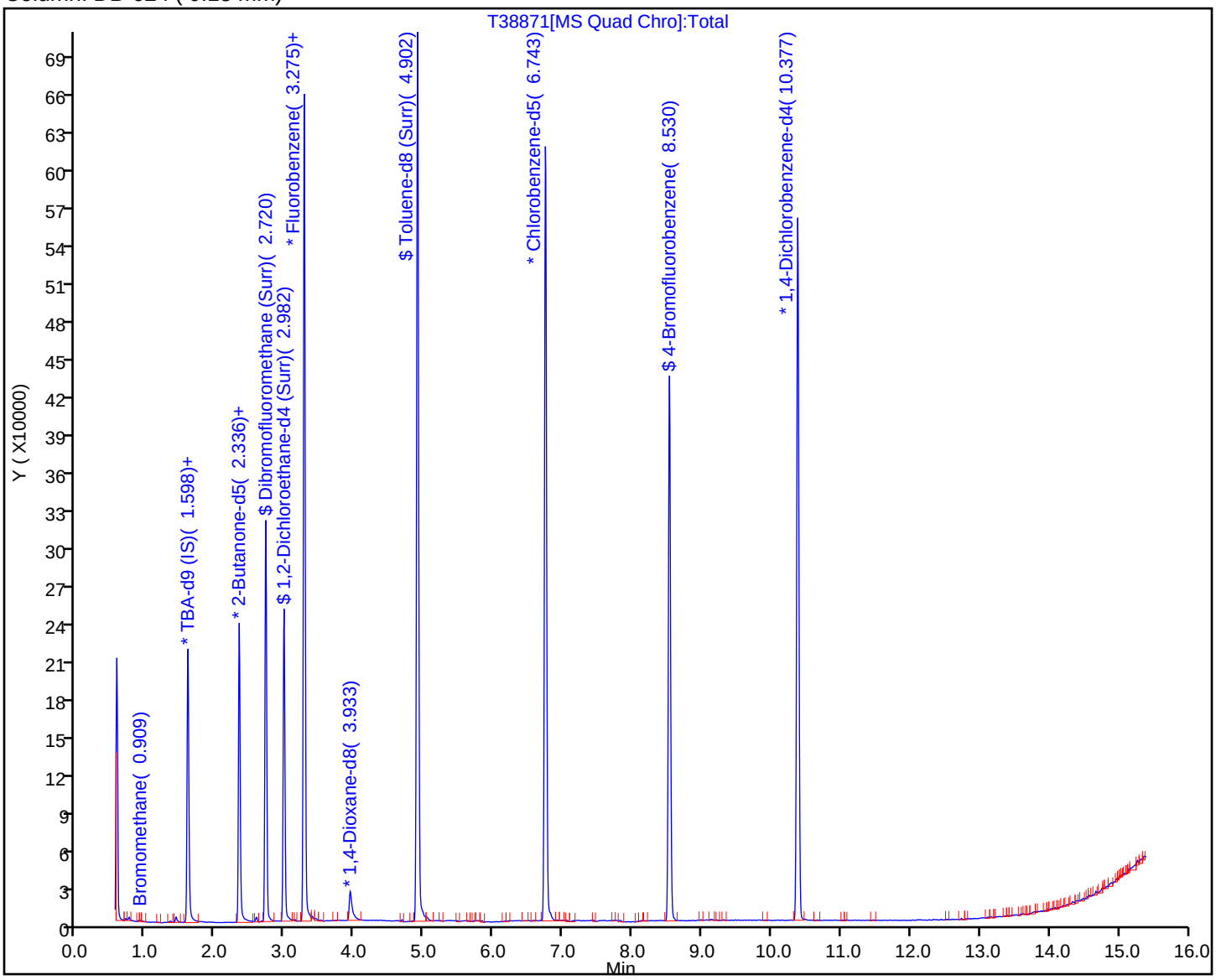
Client ID: TB

Operator ID: ALS Bottle#: 0 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



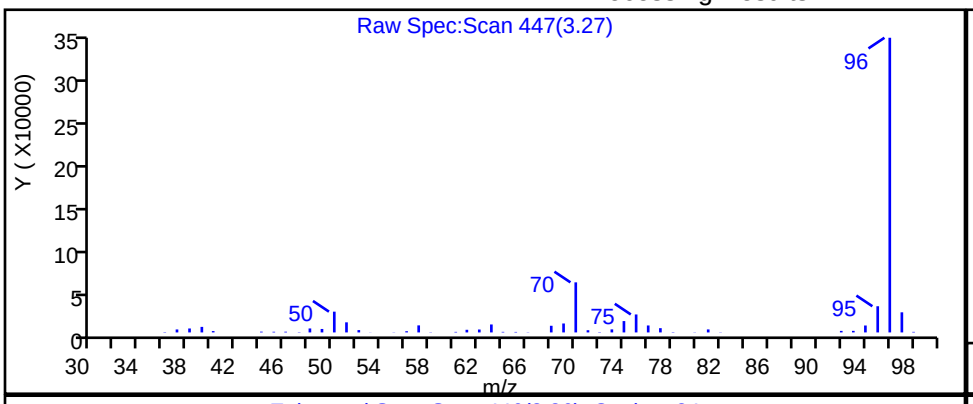
User Disabled Compound Report

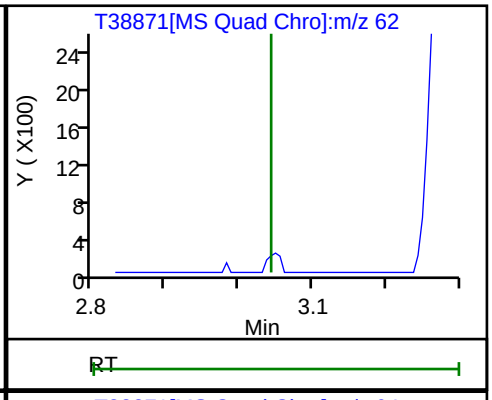
Eurofins TestAmerica, Edison

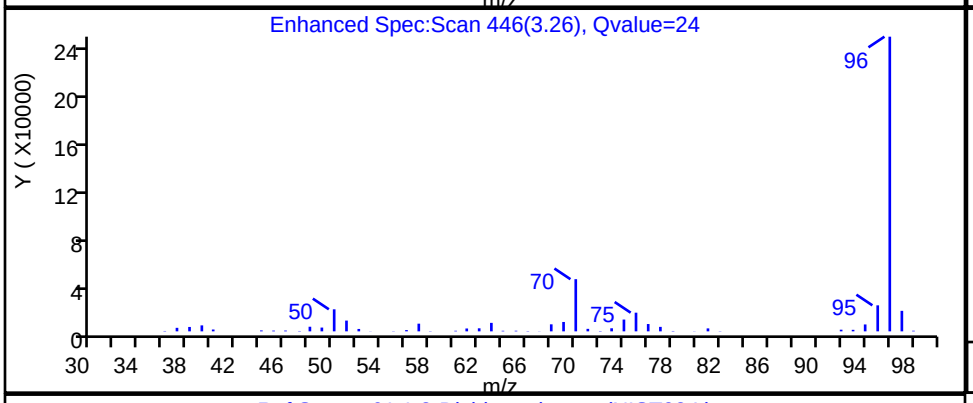
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38871.D				
Injection Date:	08-Sep-2020 23:42:26	Instrument ID:	CVOAMS15		
Lims ID:	460-217659-A-9	Lab Sample ID:	460-217659-9		
Client ID:	TB				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

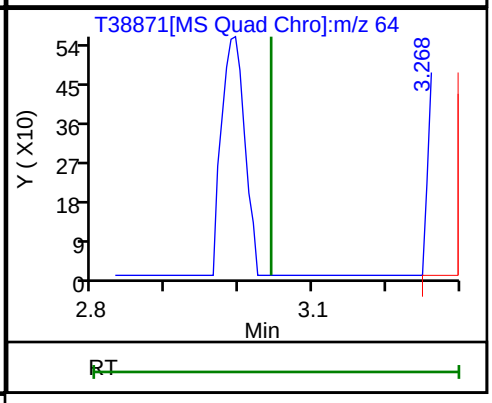
61 1,2-Dichloroethane, CAS: 107-06-2

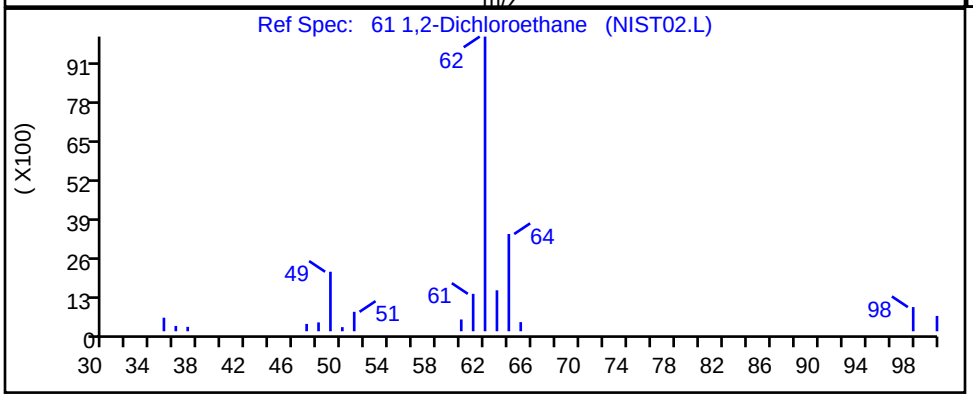
Processing Results











RT	Mass	Response	Amount
3.27	62.00	6006	1.356345
3.27	64.00	1090	

Reviewer: parekhv, 09-Sep-2020 00:35:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-721958/3	T38694.D
Level 2	STD05 460-721958/4	T38695.D
Level 3	STD1 460-721958/5	T38696.D
Level 4	STD5 460-721958/6	T38697.D
Level 5	STD20 460-721958/7	T38698.D
Level 6	STD50 460-721958/8	T38699.D
Level 7	STD200 460-721958/9	T38700.D
Level 8	STD500 460-721958/10	T38701.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Monochloropentafluoroethane	+++++ 0.0385	+++++ 0.0457	0.0552 0.0509	0.0400	0.0428	Ave		0.0455				14.2		20.0			
Chlorotrifluoroethene	+++++ 0.0988	0.0542 0.1137	0.0932 0.1299	0.0868	0.0967	Qua2	-0.018	0.0974	0.0000669						0.9950		0.9900
1,1-Difluoroethane	+++++ 0.1220	0.1083 0.1253	0.1139 0.1314	0.1081	0.1196	Ave		0.1184				7.4		20.0			
Dichlorodifluoromethane	+++++ 0.3802	0.2962 0.4132	0.3416 0.4201	0.3253	0.3767	Ave		0.3648			0.1000	12.6		20.0			
Chlorodifluoromethane	+++++ 0.0512	0.0497 0.0524	0.0416 0.0541	0.0397	0.0486	Ave		0.0482				11.3		20.0			
Chloromethane	+++++ 0.2060	0.2009 0.1960	0.1924 0.2395	0.1820	0.1873	Ave		0.2006			0.1000	9.4		20.0			
Vinyl chloride	+++++ 0.2878	0.2541 0.2822	0.2497 0.2946	0.2531	0.2698	Ave		0.2702			0.1000	6.8		20.0			
Butadiene	0.1982 0.2468	0.2132 0.2521	0.2307 0.2564	0.1936	0.2264	Ave		0.2272				10.6		20.0			
Bromomethane	+++++ 1.5934	1.4337 2.0540	1.6007 +++++	1.4771	1.4763	Ave		1.6059			0.1000	14.3		20.0			
Chloroethane	+++++ 2.0247	1.9537 1.9424	1.8552 1.9923	1.6655	1.8103	Ave		1.8920			0.1000	6.6		20.0			
Dichlorofluoromethane	+++++ 0.4431	0.4354 0.4228	0.4362 0.4271	0.3929	0.4109	Ave		0.4241				4.1		20.0			
Trichlorofluoromethane	+++++ 0.4773	0.3820 0.4707	0.3646 0.4706	0.3777	0.4632	Ave		0.4294			0.1000	12.0		20.0			
Pentane	+++++ 0.0401	0.0241 0.0416	0.0404 0.0430	0.0360	0.0396	Ave		0.0378				17.0		20.0			
Ethanol	+++++ 0.2562	0.7089 0.2400	0.5084 0.1588	0.3570	0.3122	QuaF		0.2915	-0.000007						1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl ether	+++++ 0.1748	0.1576 0.1723	0.1891 0.1756	0.1605	0.1615	Ave		0.1702				6.5		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2562	0.2202 0.2580	0.2611 0.2582	0.2312	0.2576	Ave		0.2489				6.5		20.0			
2-Methyl-1,3-butadiene	+++++ 0.1986	0.1619 0.2020	0.1794 0.2094	0.1899	0.1984	Ave		0.1914				8.4		20.0			
1,1,1-Trifluoro-2,2-dichloroethane	+++++ 0.3818	0.3250 0.3847	0.4136 0.3799	0.3317	0.3819	Ave		0.3712				8.5		20.0			
Acrolein	+++++ 7.5130	5.7536 7.5191	7.4938 7.3593	5.6541	7.5677	Ave		6.9801				12.5		20.0			
1,1-Dichloroethene	+++++ 0.2465	0.2439 0.2459	0.2395 0.2380	0.2309	0.2338	Ave		0.2398			0.1000	2.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2702	0.2112 0.2887	0.2294 0.2814	0.2473	0.2841	Ave		0.2589			0.1000	11.6		20.0			
Acetone	+++++ 0.6155	0.7175 0.6583	0.8322 0.6832	0.6522	0.6085	Ave		0.6811			0.0500	11.2		20.0			
Iodomethane	+++++ 0.1973	0.0294 0.2784	0.0201 0.2477	0.0397	0.1147	Ave		0.1325				82.1	*	20.0			
Carbon disulfide	+++++ 0.7705	0.7913 0.7573	0.8703 0.7294	0.7252	0.7562	Ave		0.7715			0.1000	6.4		20.0			
Isopropyl alcohol	+++++ 3.3490	2.9842 3.0291	2.7830 2.9952	3.0458	2.8885	Ave		3.0107				5.8		20.0			
Acetonitrile	+++++ 0.1487	0.1951 0.1387	0.1264 0.1372	0.1521	0.1383	Ave		0.1481				15.1		20.0			
Allyl chloride	+++++ 0.1599	0.1443 0.1560	0.1534 0.1396	0.1686	0.1577	Ave		0.1542				6.3		20.0			
Methyl acetate	+++++ 0.1278	0.1440 0.1239	0.1481 0.1298	0.1226	0.1245	Ave		0.1315			0.1000	7.8		20.0			
Cyclopentene	+++++ 0.5554	0.4569 0.5707	0.5401 0.5653	0.5253	0.5842	Ave		0.5426				7.8		20.0			
Methylene Chloride	+++++ 0.2648	0.2723 0.2558	0.2992 0.2492	0.2509	0.2551	Ave		0.2639			0.1000	6.6		20.0			
2-Methyl-2-propanol	+++++ 5.7820	6.9539 5.7671	7.3306 5.2347	6.2342	6.0502	Ave		6.1933				11.7		20.0			
Acrylonitrile	0.0725 0.0716	0.0672 0.0690	0.0682 0.0696	0.0689	0.0719	Ave		0.0699				2.8		20.0			
trans-1,2-Dichloroethene	+++++ 0.2830	0.2369 0.2745	0.2582 0.2699	0.2773	0.2719	Ave		0.2674			0.1000	5.8		20.0			
Methyl tert-butyl ether	+++++ 0.6947	0.6388 0.6696	0.6866 0.6590	0.6485	0.6710	Ave		0.6669			0.1000	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Hexane	+++++ 0.2797	0.1924 0.2941	0.2731 0.2901	0.2723	0.2994	Ave		0.2716				13.4		20.0			
1,1-Dichloroethane	+++++ 0.4465	0.4376 0.4271	0.4303 0.4033	0.4428	0.4447	Ave		0.4332			0.2000	3.5		20.0			
Vinyl acetate	+++++ 0.5798	0.3871 0.6497	0.4035 0.5902	0.5504	0.5286	Ave		0.5270				18.5		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2537	0.2375 0.2574	0.2369 0.2585	0.2434	0.2500	Ave		0.2482				3.6		20.0			
Isopropyl ether	+++++ 0.6574	0.6020 0.6089	0.6119 0.6088	0.6105	0.6253	Ave		0.6178				3.0		20.0			
Tert-butyl ethyl ether	+++++ 0.6831	0.6087 0.6530	0.6061 0.6545	0.6878	0.6600	Ave		0.6505				5.0		20.0			
2,2-Dichloropropane	+++++ 0.0985	0.0834 0.0977	0.0879 0.0905	0.0936	0.0994	Ave		0.0930				6.5		20.0			
cis-1,2-Dichloroethene	+++++ 0.3074	0.3013 0.3018	0.2974 0.2896	0.3029	0.2978	Ave		0.2997			0.1000	1.9		20.0			
2-Butanone (MEK)	+++++ 0.9534	1.1925 0.9615	1.0852 0.9346	1.0072	0.9039	Ave		1.0055			0.0500	10.1		20.0			
Propionitrile	+++++ 7.7756	7.7137 7.4792	7.4273 6.8668	8.1555	7.7957	Ave		7.6020				5.3		20.0			
Ethyl acetate	+++++ 0.2650	0.0889 0.2604	0.2187 0.2573	0.2443	0.2508	QuaF		0.2626	-0.000005						1.0000		0.9900
Methyl acrylate	+++++ 0.2079	0.1560 0.1947	0.1727 0.2320	0.2026	0.2044	Ave		0.1958				12.7		20.0			
Chlorobromomethane	+++++ 0.1478	0.1408 0.1418	0.1468 0.1383	0.1455	0.1445	Ave		0.1436				2.4		20.0			
Methacrylonitrile	+++++ 0.0945	0.0845 0.0907	0.0855 0.0914	0.0935	0.0930	Ave		0.0904				4.4		20.0			
Tetrahydrofuran	+++++ 0.3735	0.2588 0.3465	0.3011 0.3361	0.3139	0.3350	Ave		0.3236				11.4		20.0			
Chloroform	+++++ 0.4949	0.4248 0.4769	0.5213 0.4585	0.4843	0.4821	Ave		0.4775			0.2000	6.3		20.0			
1,1,1-Trichloroethane	+++++ 0.4629	0.4309 0.4540	0.4246 0.4355	0.4452	0.4642	Ave		0.4453			0.1000	3.5		20.0			
Cyclohexane	+++++ 0.3581	0.2917 0.3826	0.3448 0.3787	0.3474	0.3826	Ave		0.3551			0.1000	9.1		20.0			
Carbon tetrachloride	+++++ 0.4033	0.3091 0.4189	0.3363 0.3917	0.3708	0.3982	Ave		0.3755			0.1000	10.5		20.0			
1,1-Dichloropropene	+++++ 0.3770	0.3179 0.3825	0.4097 0.3675	0.3723	0.3810	Ave		0.3726				7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	+++++ 1.9178	1.2025 2.0174	2.0572 1.8890	1.9987	1.9305	Ave		1.8590				15.9		20.0			
Benzene	+++++ 1.3507	1.4171 1.3511	1.2944 1.3545	1.3295	1.3592	Ave		1.3509			0.5000	2.7		20.0			
1,2-Dichloroethane	+++++ 0.3328	0.3260 0.3265	0.3528 0.3151	0.3387	0.3303	Ave		0.3318			0.1000	3.6		20.0			
2,2,4-Trimethylpentane	+++++ 0.4908	0.3806 0.5182	0.4199 0.5154	0.4868	0.5101	Ave		0.4745				11.2		20.0			
Isopropyl acetate	+++++ 0.0801	0.0572 0.0811	0.0641 0.0806	0.0769	0.0775	Ave		0.0740				12.7		20.0			
Tert-amyl methyl ether	+++++ 0.6983	0.6108 0.6755	0.6130 0.6600	0.6978	0.6763	Ave		0.6617				5.5		20.0			
n-Heptane	+++++ 0.2015	0.1590 0.2095	0.1907 0.2001	0.1947	0.2093	Ave		0.1950				8.9		20.0			
Trichloroethene	+++++ 0.2952	0.2991 0.2954	0.2946 0.2832	0.2802	0.2963	Ave		0.2920			0.2000	2.5		20.0			
n-Butanol	+++++ 1.4026	+++++ 1.4997	0.9101 1.4252	1.0817	1.2690	Ave		1.2647				18.0		20.0			
Ethyl acrylate	+++++ 0.5219	0.3910 0.5346	0.5230 0.5183	0.4846	0.5196	Ave		0.4990				10.0		20.0			
Methylcyclohexane	+++++ 0.3804	0.2856 0.4035	0.3348 0.3858	0.3448	0.3838	Ave		0.3598			0.1000	11.3		20.0			
1,2-Dichloropropane	+++++ 0.2439	0.2222 0.2406	0.1962 0.2269	0.2388	0.2494	Ave		0.2312			0.1000	7.8		20.0			
Dibromomethane	+++++ 0.1708	0.1368 0.1677	0.1668 0.1555	0.1664	0.1735	Ave		0.1625				7.8		20.0			
1,4-Dioxane	+++++ 1.0672	0.7542 0.9194	0.8482 0.8574	1.0466	1.0244	Ave		0.9311				12.7		20.0			
Methyl methacrylate	+++++ 0.0674	0.0380 0.0664	0.0622 0.0661	0.0604	0.0585	Ave		0.0599				17.0		20.0			
n-Propyl acetate	+++++ 0.2564	0.2467 0.2549	0.1939 0.2559	0.2472	0.2546	Ave		0.2442				9.2		20.0			
Dichlorobromomethane	+++++ 0.3721	0.3297 0.3707	0.3466 0.3512	0.3541	0.3654	Ave		0.3557			0.2000	4.2		20.0			
2-Nitropropane	+++++ 0.0476	0.0437 0.0499	0.0439 0.0499	0.0454	0.0473	Ave		0.0468				5.5		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1015	+++++ 0.1021	0.0510 0.1047	0.0722	0.0937	Qua2	-0.045	0.0937	0.0000261						0.9940		0.9900
Epichlorohydrin	0.1878 0.2429	0.2138 0.2470	0.2262 0.2328	0.2343	0.2369	Ave		0.2277				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,3-Dichloropropene	+++++ 0.5736	0.4965 0.5630	0.5937 0.5542	0.5601	0.5710	Ave		0.5589			0.2000	5.4		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 1.9864	1.6705 2.0056	1.7638 1.9043	1.9180	1.8720	Ave		1.8744			0.0500	6.4		20.0			
Toluene	+++++ 1.4829	1.4731 1.4680	1.4927 1.4263	1.4937	1.5238	Ave		1.4801			0.4000	2.0		20.0			
trans-1,3-Dichloropropene	+++++ 0.5391	0.4871 0.5182	0.4457 0.5098	0.4940	0.5183	Ave		0.5017			0.1000	6.0		20.0			
Ethyl methacrylate	+++++ 0.3758	0.2880 0.3815	0.3614 0.3855	0.3439	0.3654	Ave		0.3574				9.4		20.0			
1,1,2-Trichloroethane	+++++ 0.2631	0.2538 0.2459	0.2430 0.2433	0.2529	0.2601	Ave		0.2517			0.1000	3.2		20.0			
Tetrachloroethene	+++++ 0.4207	0.3195 0.4189	0.3955 0.4116	0.4000	0.4254	Ave		0.3988			0.2000	9.2		20.0			
1,3-Dichloropropane	+++++ 0.5087	0.4383 0.4968	0.4491 0.4707	0.5216	0.5085	Ave		0.4848				6.7		20.0			
2-Hexanone	+++++ 1.3723	1.0556 1.3844	1.2166 1.3255	1.2597	1.3074	Ave		1.2745			0.0500	8.9		20.0			
Chlorodibromomethane	+++++ 0.3987	0.3211 0.3959	0.3305 0.3832	0.3810	0.3877	Ave		0.3712			0.1000	8.5		20.0			
Ethylene Dibromide	+++++ 0.3430	0.2740 0.3289	0.3448 0.3269	0.3479	0.3442	Ave		0.3300			0.1000	7.9		20.0			
n-Butyl acetate	+++++ 0.3636	0.3448 0.3475	0.3183 0.3529	0.3522	0.3680	Ave		0.3496				4.6		20.0			
Chlorobenzene	+++++ 0.9570	0.9682 0.9412	0.8956 0.9063	0.9514	0.9823	Ave		0.9432			0.5000	3.4		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3797	0.3198 0.3597	0.3632 0.3371	0.3682	0.3741	Ave		0.3574				6.0		20.0			
Ethylbenzene	+++++ 0.5085	0.4504 0.4894	0.5233 0.4717	0.5082	0.5204	Ave		0.4960			0.1000	5.4		20.0			
m-Xylene & p-Xylene	+++++ 0.6204	0.5846 0.5911	0.6751 0.5690	0.6298	0.6280	Ave		0.6140			0.1000	5.8		20.0			
o-Xylene	+++++ 0.5839	0.5458 0.5545	0.6031 0.5473	0.5772	0.5905	Ave		0.5718			0.3000	4.0		20.0			
Styrene	+++++ 0.9860	0.8276 0.9199	0.8504 0.9155	0.9337	0.9739	Ave		0.9153			0.3000	6.4		20.0			
n-Butyl acrylate	+++++ 0.2154	0.1668 0.2125	0.1473 0.2179	0.1820	0.2272	Ave		0.1956				15.5		20.0			
Bromoform	+++++ 0.2588	0.2285 0.2516	0.2174 0.2566	0.2432	0.2518	Ave		0.2440			0.1000	6.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Amyl acetate (mixed isomers)	+++++ 0.8617	0.7944 0.8693	0.7092 0.7944	0.8479	0.8372	Ave		0.8163				6.8		20.0			
Isopropylbenzene	+++++ 1.5160	1.2433 1.4163	1.4158 1.3822	1.4493	1.5437	Ave		1.4238			0.1000	6.9		20.0			
Bromobenzene	+++++ 0.8460	0.7209 0.8461	0.8308 0.7695	0.8243	0.8489	Ave		0.8124				6.0		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.7654	0.6968 0.7944	0.7196 0.7232	0.7895	0.7981	Ave		0.7553			0.3000	5.5		20.0			
1,2,3-Trichloropropane	+++++ 0.2413	0.2252 0.2401	0.1763 0.2264	0.2449	0.2436	Ave		0.2283				10.6		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2057	0.1076 0.2136	0.1544 0.2020	0.1914	0.1995	Lin2	-0.049	0.2051							0.9990		0.9900
N-Propylbenzene	+++++ 3.6338	3.5073 3.6713	3.5931 3.3202	3.5531	3.7052	Ave		3.5691				3.6		20.0			
2-Chlorotoluene	+++++ 2.1772	1.8551 2.0777	2.1842 1.8291	2.1326	2.1959	Ave		2.0645				7.6		20.0			
4-Ethyltoluene	+++++ 2.8712	2.7964 2.8321	2.7780 2.6609	2.6938	2.8178	Ave		2.7786				2.7		20.0			
4-Chlorotoluene	+++++ 2.2675	2.3137 2.1360	2.2700 2.1934	2.2116	2.1861	Ave		2.2255				2.7		20.0			
1,3,5-Trimethylbenzene	+++++ 2.2911	2.2579 2.2878	2.2703 2.0717	2.2468	2.3032	Ave		2.2470				3.5		20.0			
Butyl Methacrylate	+++++ 0.8364	0.7168 0.8240	0.6968 0.8121	0.7154	0.7482	Ave		0.7642				7.7		20.0			
tert-Butylbenzene	+++++ 2.0085	1.8651 1.9605	1.9602 1.8199	1.9827	2.0177	Ave		1.9449				3.8		20.0			
1,2,4-Trimethylbenzene	+++++ 2.3134	2.1967 2.2967	2.1197 2.1283	2.1717	2.3050	Ave		2.2188				3.8		20.0			
sec-Butylbenzene	+++++ 2.7557	2.4584 2.7763	2.6365 2.5782	2.6397	2.7705	Ave		2.6593				4.4		20.0			
1,3-Dichlorobenzene	+++++ 1.3675	1.2112 1.3653	1.4098 1.2860	1.3723	1.3730	Ave		1.3407			0.6000	5.1		20.0			
1,4-Dichlorobenzene	+++++ 1.3689	1.4958 1.3881	1.4116 1.3031	1.3266	1.3488	Ave		1.3776			0.5000	4.6		20.0			
4-Isopropyltoluene	+++++ 2.2884	1.9415 2.3191	2.3392 2.1852	2.2335	2.2902	Ave		2.2281				6.1		20.0			
1,2,3-Trimethylbenzene	+++++ 2.2719	2.0185 2.2579	2.1078 2.1267	2.1399	2.2439	Ave		2.1667				4.3		20.0			
Benzyl chloride	+++++ 1.3652	1.3906 1.4230	1.2971 1.3715	1.3025	1.3386	Ave		1.3555				3.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Indan	+++++ 2.2608	2.1173 2.2697	1.9735 2.1533	2.0960	2.1719	Ave		2.1489				4.7		20.0			
1,2-Dichlorobenzene	+++++ 1.2660	1.0978 1.3210	1.1595 1.2330	1.1719	1.2180	Ave		1.2096			0.4000	6.1		20.0			
p-Diethylbenzene	+++++ 1.1246	0.8961 1.1604	1.0302 1.0985	0.9989	1.1002	Ave		1.0584				8.5		20.0			
n-Butylbenzene	+++++ 1.1043	0.9114 1.1188	1.0045 1.0439	1.0112	1.0555	Ave		1.0357				6.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1493	0.0506 0.1624	0.1169 0.1655	0.1538	0.1515	Qua2	-0.051	0.1579	0.0000150		0.0500				0.9980		0.9900
1,2,4,5-Tetramethylbenzene	+++++ 1.7305	1.5429 1.8391	1.5457 1.7997	1.4955	1.6610	Ave		1.6592				8.2		20.0			
1,3,5-Trichlorobenzene	+++++ 0.7040	0.6262 0.7316	0.7131 0.7170	0.6285	0.6870	Ave		0.6868				6.2		20.0			
1,2,4-Trichlorobenzene	+++++ 0.5757	0.5745 0.6349	0.4962 0.6229	0.5225	0.5686	Ave		0.5708			0.2000	8.7		20.0			
Hexachlorobutadiene	+++++ 0.2413	0.4198 0.2662	0.3000 0.2547	0.2359	0.2449	Lin2	0.0818	0.2421							0.9930		0.9900
Naphthalene	+++++ 1.4505	1.5323 1.6121	1.3439 1.5945	1.3513	1.3688	Ave		1.4648				7.9		20.0			
1,2,3-Trichlorobenzene	+++++ 0.4540	0.4392 0.5078	0.3320 0.4996	0.4185	0.4337	Ave		0.4407				13.3		20.0			
Dibromofluoromethane (Surr)	0.3009 0.2884	0.2934 0.2872	0.2949 0.2871	0.2961	0.2857	Ave		0.2917				1.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3058 0.2903	0.2999 0.2853	0.2983 0.2912	0.2977	0.2895	Ave		0.2947				2.3		20.0			
Toluene-d8 (Surr)	1.2986 1.2659	1.2660 1.2673	1.2756 1.2751	1.2658	1.3003	Ave		1.2768				1.1		20.0			
4-Bromofluorobenzene	0.4226 0.4135	0.4088 0.3970	0.4117 0.4067	0.4138	0.4216	Ave		0.4120				2.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-721958/3	T38694.D
Level 2	STD05 460-721958/4	T38695.D
Level 3	STD1 460-721958/5	T38696.D
Level 4	STD5 460-721958/6	T38697.D
Level 5	STD20 460-721958/7	T38698.D
Level 6	STD50 460-721958/8	T38699.D
Level 7	STD200 460-721958/9	T38700.D
Level 8	STD500 460-721958/10	T38701.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Monochloropentafluoroethane	FB	Ave	+++++ 18324	+++++ 85345	534 234583	1942	8095	+++++ 50.0	+++++ 200	1.00 500	5.00	20.0
Chlorotrifluoroethene	FB	Qua2	+++++ 47078	265 212369	902 598342	4212	18264	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Difluoroethane	FB	Ave	+++++ 58101	530 234122	1103 605257	5243	22596	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorodifluoromethane	FB	Ave	+++++ 181094	1449 771925	3307 1935652	15785	71184	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorodifluoromethane	FB	Ave	+++++ 24406	243 97821	403 249110	1928	9180	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloromethane	FB	Ave	+++++ 98107	983 366219	1863 1103505	8833	35384	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl chloride	FB	Ave	+++++ 137086	1243 527233	2417 1357477	12280	50984	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butadiene	FB	Ave	481 117568	1043 470885	2234 1181606	9395	42777	0.250 50.0	0.500 200	1.00 500	5.00	20.0
Bromomethane	BUT	Ave	+++++ 64136	637 322292	1321 +++++	6195	24554	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
Chloroethane	BUT	Ave	+++++ 81493	868 304774	1531 782000	6985	30110	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorofluoromethane	FB	Ave	+++++ 211030	2130 789905	4223 1968166	19064	77629	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Trichlorofluoromethane	FB	Ave	+++++ 227334	1869 879376	3530 2168538	18325	87520	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Pentane	FB	Ave	+++++ 38229	236 155402	782 395854	3492	14973	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Ethanol	TBAd 9	QuaF	+++++ 17166	515 61953	673 112468	2362	8191	+++++ 2000	20.0 8000	40.0 20000	200	800
Ethyl ether	FB	Ave	+++++ 83236	771 321824	1831 809240	7787	30515	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 122013	1077 481958	2528 1189643	11218	48670	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 94587	792 377345	1737 964931	9216	37491	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	+++++ 181837	1590 718684	4004 1750396	16094	72162	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acrolein	TBAd9	Ave	+++++ 25168	418 48524	992 104267	3741	9928	+++++ 100	2.00 200	4.00 400	20.0	40.0
1,1-Dichloroethene	FB	Ave	+++++ 117416	1193 459465	2319 1096741	11205	44169	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 128696	1033 539298	2221 1296793	12000	53685	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acetone	BUT	Ave	+++++ 123872	1594 516437	3434 1340870	13676	50604	+++++ 250	2.50 1000	5.00 2500	25.0	100
Iodomethane	FB	Ave	+++++ 93953	144 520046	195 1141499	1928	21673	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Carbon disulfide	FB	Ave	+++++ 366981	3871 1414775	8426 3361012	35190	142890	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl alcohol	TBAd9	Ave	+++++ 56094	542 195478	921 530450	5038	18947	+++++ 500	5.00 2000	10.0 5000	50.0	200
Acetonitrile	BUT	Ave	+++++ 59859	867 217685	1043 538353	6379	22995	+++++ 500	5.00 2000	10.0 5000	50.0	200
Allyl chloride	FB	Ave	+++++ 76166	706 291370	1485 643273	8180	29788	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl acetate	FB	Ave	+++++ 121708	1409 462854	2867 1196436	11898	47038	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Cyclopentene	FB	Ave	+++++ 264563	2235 1066208	5229 2604712	25486	110385	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methylene Chloride	FB	Ave	+++++ 126123	1332 477834	2897 1148212	12175	48203	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 96846	1263 372176	2426 927064	10312	39686	+++++ 500	5.00 2000	10.0 5000	50.0	200
Acrylonitrile	FB	Ave	1408 341271	3287 1289394	6607 3208340	33442	135877	2.00 500	5.00 2000	10.0 5000	50.0	200
trans-1,2-Dichloroethene	FB	Ave	+++++ 134809	1159 512816	2500 1243634	13453	51381	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 330891	3125 1250878	6647 3036522	31467	126781	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Hexane	FB	Ave	+++++ 133224	941 549455	2644 1336922	13211	56563	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloroethane	FB	Ave	+++++ 212694	2141 797913	4166 1858164	21487	84022	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Vinyl acetate	BUT	Ave	+++++ 46670	344 203897	666 463305	4617	17583	+++++ 100	1.00 400	2.00 1000	10.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 120832	1162 480793	2294 1191332	11810	47231	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl ether	FB	Ave	+++++ 313131	2945 1137455	5924 2805021	29621	118149	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tert-butyl ethyl ether	FB	Ave	+++++ 325384	2978 1219843	5868 3015632	33375	124709	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2,2-Dichloropropane	FB	Ave	+++++ 46915	408 182584	851 417002	4542	18777	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 146435	1474 563758	2879 1334354	14695	56276	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Butanone (MEK)	BUT	Ave	+++++ 191880	2649 754351	4478 1834163	21122	75173	+++++ 250	2.50 1000	5.00 2500	25.0	100
Propionitrile	TBAd9	Ave	+++++ 130237	1401 482660	2458 1216112	13490	51135	+++++ 500	5.00 2000	10.0 5000	50.0	200
Ethyl acetate	BUT	QuaF	+++++ 21331	79 81719	361 202010	2049	8344	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Methyl acrylate	FB	Ave	+++++ 99002	763 363781	1672 1069212	9831	38622	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorobromomethane	FB	Ave	+++++ 70399	689 264929	1421 637084	7058	27303	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methacrylonitrile	FB	Ave	+++++ 450178	4134 1693932	8273 4210590	45367	175670	+++++ 500	5.00 2000	10.0 5000	50.0	200
Tetrahydrofuran	BUT	Ave	+++++ 30069	230 108728	497 263878	2633	11145	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Chloroform	FB	Ave	+++++ 235737	2078 890928	5047 2112555	23497	91090	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1-Trichloroethane	FB	Ave	+++++ 220470	2108 848245	4111 2006798	21601	87714	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Cyclohexane	FB	Ave	+++++ 170569	1427 714797	3338 1744998	16856	72294	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Carbon tetrachloride	FB	Ave	+++++ 192094	1512 782505	3256 1804842	17994	75247	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloropropene	FB	Ave	+++++ 179562	1555 714655	3967 1693561	18066	71986	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isobutyl alcohol	TBAd9	Ave	+++++ 80307	546 325479	1702 836342	8265	31658	+++++ 1250	12.5 5000	25.0 12500	125	500
Benzene	CBNZ d5	Ave	+++++ 484677	5260 1892747	9508 4546661	47439	189587	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichloroethane	FB	Ave	+++++ 158518	1595 609868	3416 1452143	16435	62408	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,2,4-Trimethylpentane	FB	Ave	+++++ 233775	1862 968146	4065 2374930	23620	96377	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl acetate	FB	Ave	+++++ 38172	280 151465	621 371536	3731	14649	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tert-amyl methyl ether	FB	Ave	+++++ 332598	2988 1261937	5935 3041111	33856	127777	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Heptane	FB	Ave	+++++ 95976	778 391332	1846 922019	9445	39542	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Trichloroethene	FB	Ave	+++++ 140596	1463 551877	2852 1304788	13597	55977	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butanol	TBAd9	Ave	+++++ 58732	+++++ 241952	753 631005	4473	20810	+++++ 1250	+++++ 5000	25.0 12500	125	500
Ethyl acrylate	FB	Ave	+++++ 248588	1913 998711	5063 2388271	23512	98185	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methylcyclohexane	FB	Ave	+++++ 181190	1397 753832	3241 1777620	16729	72518	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichloropropane	FB	Ave	+++++ 116194	1087 449519	1900 1045500	11587	47117	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromomethane	FB	Ave	+++++ 81349	669 313223	1615 716353	8072	32784	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,4-Dioxane	DXE	Ave	+++++ 25404	462 99056	956 252127	2379	9818	+++++ 1000	25.0 4000	50.0 10000	100	400
Methyl methacrylate	FB	Ave	+++++ 64235	372 248218	1204 609144	5860	22116	+++++ 100	1.00 400	2.00 1000	10.0	40.0
n-Propyl acetate	FB	Ave	+++++ 122143	1207 476273	1877 1178918	11993	48115	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorobromomethane	FB	Ave	+++++ 177256	1613 692440	3356 1618126	17179	69040	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Nitropropane	FB	Ave	+++++ 45340	428 186422	850 459432	4405	17869	+++++ 100	1.00 400	2.00 1000	10.0	40.0
2-Chloroethyl vinyl ether	FB	Qua2	+++++ 48476	+++++ 191176	495 483492	3511	17739	+++++ 50.1	+++++ 200	1.00 501	5.01	20.0
Epichlorohydrin	BUT	Ave	804 195544	1900 775153	3734 1827552	19650	78803	5.00 1000	10.0 4000	20.0 10000	100	400
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 205825	1843 788654	4361 1860391	19985	79655	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 399769	3711 1573507	7278 3737292	40221	155679	+++++ 250	2.50 1000	5.00 2500	25.0	100
Toluene	CBNZ d5	Ave	+++++ 532104	5468 2056475	10965 4787752	53298	212549	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 193445	1808 725911	3274 1711158	17625	72302	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl methacrylate	CBNZ d5	Ave	+++++ 134838	1069 534485	2655 1294075	12272	50976	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 94409	942 344435	1785 816679	9023	36285	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 150963	1186 586860	2905 1381532	14274	59338	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 182529	1627 696008	3299 1580104	18610	70932	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Hexanone	BUT	Ave	+++++ 276172	2345 1086115	5020 2601241	26416	108729	+++++ 250	2.50 1000	5.00 2500	25.0	100
Chlorodibromomethane	CBNZ d5	Ave	+++++ 143070	1192 554582	2428 1286230	13595	54077	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethylene Dibromide	CBNZ d5	Ave	+++++ 123081	1017 460707	2533 1097442	12415	48015	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 130474	1280 486790	2338 1184736	12568	51334	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 343416	3594 1318475	6579 3042390	33946	137025	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 136262	1187 503909	2668 1131580	13137	52187	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethylbenzene	CBNZ d5	Ave	+++++ 182480	1672 685577	3844 1583492	18134	72594	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 222599	2170 828039	4959 1910159	22473	87605	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
o-Xylene	CBNZ d5	Ave	+++++ 209528	2026 776857	4430 1837068	20594	82369	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Styrene	CBNZ d5	Ave	+++++ 353816	3072 1288755	6247 3072989	33317	135843	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 77287	619 297739	1082 731515	6495	31690	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromoform	CBNZ d5	Ave	+++++ 92851	848 352412	1597 861204	8679	35128	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 145402	1351 543967	2397 1326439	14370	55766	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 543980	4615 1984132	10400 4639864	51714	215333	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromobenzene	DCBd 4	Ave	+++++ 142752	1226 529463	2808 1284756	13970	56548	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 129147	1185 497130	2432 1207452	13381	53165	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 40708	383 150267	596 378042	4151	16228	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	+++++ 34706	183 133645	522 337260	3243	13289	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 613132	5965 2297388	12144 5543741	60218	246809	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 367358	3155 1300188	7382 3053965	36143	146276	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 484464	4756 1772276	9389 4442949	45654	187697	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 382605	3935 1336684	7672 3662362	37483	145619	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 386589	3840 1431680	7673 3459100	38079	153420	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butyl Methacrylate	DCBd 4	Ave	+++++ 141128	1219 515623	2355 1355997	12124	49842	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 338899	3172 1226829	6625 3038694	33602	134405	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 390346	3736 1437197	7164 3553591	36806	153542	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 464982	4181 1737373	8911 4304765	44738	184551	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 230743	2060 854373	4765 2147245	23258	91455	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 230974	2544 868667	4771 2175817	22484	89849	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 386118	3302 1451207	7906 3648625	37853	152555	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 383349	3433 1412940	7124 3550936	36267	149473	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Benzyl chloride	DCBd 4	Ave	+++++ 230347	2365 890482	4384 2289900	22075	89168	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Indan	DCBd 4	Ave	+++++ 381465	3601 1420352	6670 3595273	35523	144677	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 213614	1867 826674	3919 2058799	19862	81134	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 189760	1524 726180	3482 1834204	16929	73287	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butylbenzene	DCBd 4	Ave	+++++ 186339	1550 700118	3395 1743055	17138	70312	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Qua2	+++++ 25184	86 101654	395 276306	2606	10089	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 291990	2624 1150853	5224 3004971	25345	110641	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1 Analy Batch No.: 721958

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2020 12:13 Calibration End Date: 09/04/2020 15:01 Calibration ID: 81787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 118793	1065 457811	2410 1197238	10651	45760	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 97146	977 397316	1677 1040011	8856	37876	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Hexachlorobutadiene	DCBd 4	Lin2	+++++ 40717	714 166568	1014 425255	3998	16315	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Naphthalene	DCBd 4	Ave	+++++ 244743	2606 1008833	4542 2662331	22901	91178	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 76607	747 317747	1122 834229	7092	28891	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromofluoromethane (Surr)	FB	Ave	146021 137373	143526 134143	142767 132307	143685	134954	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	148409 138293	146689 133248	144381 134157	144449	136753	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	477634 454255	469904 443860	468513 428004	451652	453441	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	155445 148390	151743 139025	151227 136512	147665	147032	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 04-Sep-2020 12:13:58 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Misc. Info.: 460-0116301-003
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:27:22 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: starzecm Date: 04-Sep-2020 13:05:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Butadiene	54	0.787	0.787	0.000	42	481	0.2500	0.2181	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	93	32669	1000.0	1000.0	
33 Acrylonitrile	53	1.708	1.708	0.000	74	1408	2.00	2.08	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	39	214006	250.0	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	95	146021	50.0	51.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	98	148409	50.0	51.9	
* 65 Fluorobenzene	96	3.275	3.275	0.000	99	485322	50.0	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	24182	1000.0	1000.0	
80 Epichlorohydrin	57	4.524	4.524	0.000	1	804	5.00	4.12	a
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	477634	50.0	50.9	
* 94 Chlorobenzene-d5	117	6.744	6.743	0.001	84	367793	50.0	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	90	155445	50.0	51.3	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	170344	50.0	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	0.00	Units: uL	
ACROLEIN W_00112	Amount Added:	0.00	Units: uL	
GASES Li_00384	Amount Added:	2.50	Units: uL	
524freon_00027	Amount Added:	0.00	Units: uL	
14DIOXINTER_00118	Amount Added:	0.00	Units: uL	
GAS Hi_00370	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00077	Amount Added:	20.00	Units: uL	
Ethanol mix_00043	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00102	Amount Added:	0.00	Units: uL	
MIX I Hi_00129	Amount Added:	0.00	Units: uL	
8FreonHi_00023	Amount Added:	0.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:27:22 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D

Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15

Lims ID: STD8

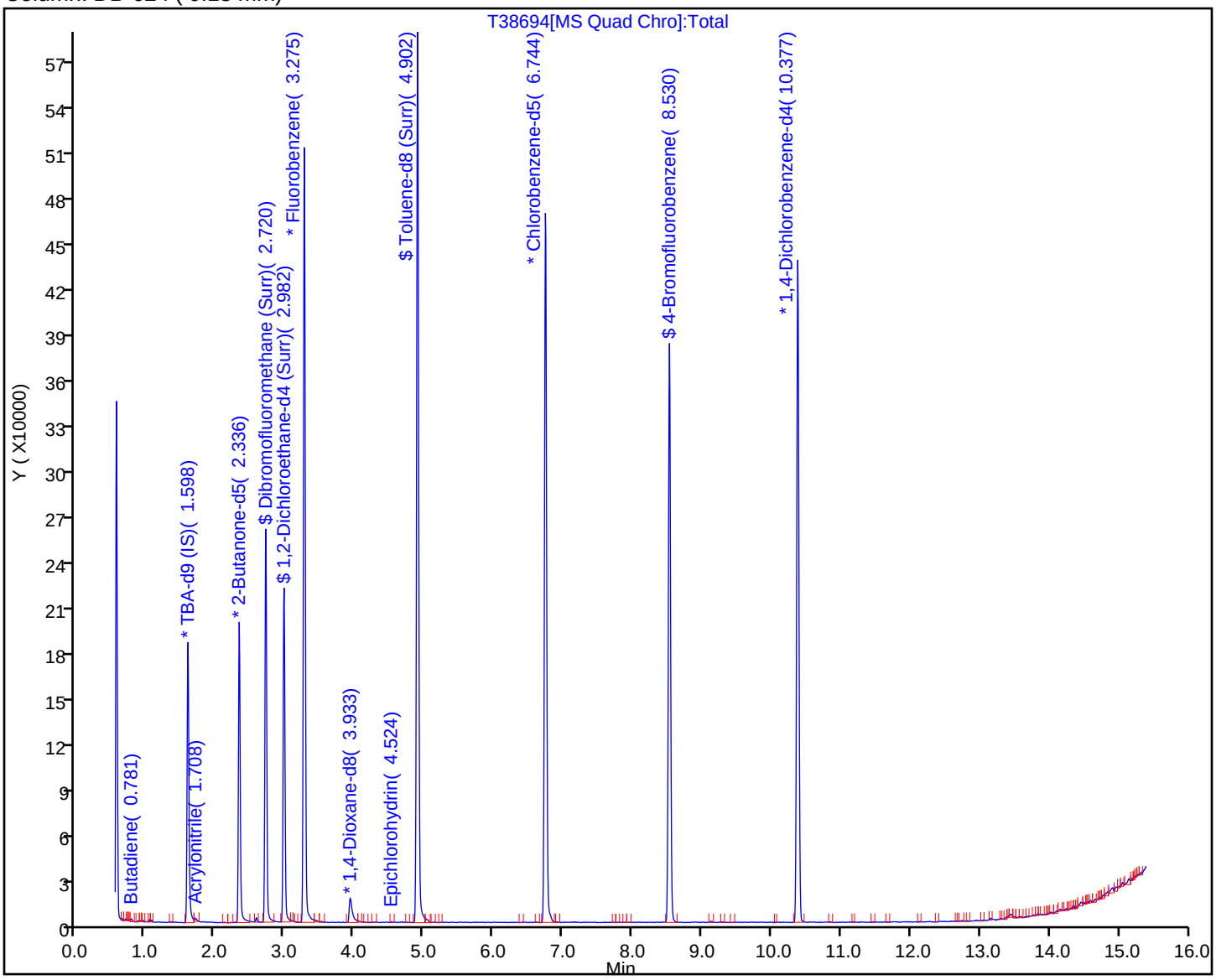
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 3

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

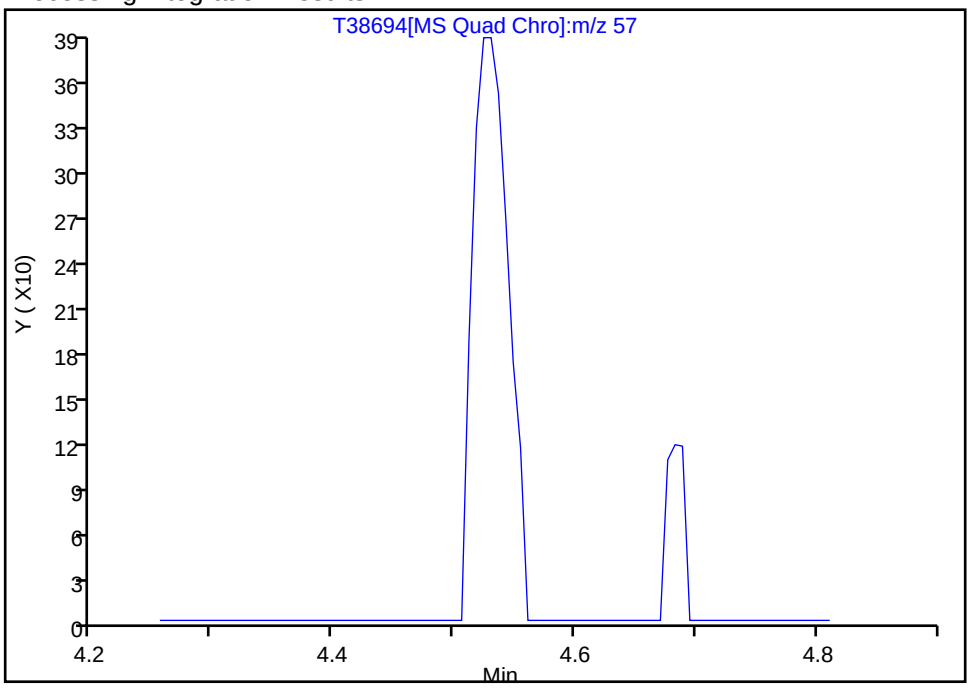
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

80 Epichlorohydrin, CAS: 106-89-8

Signal: 1

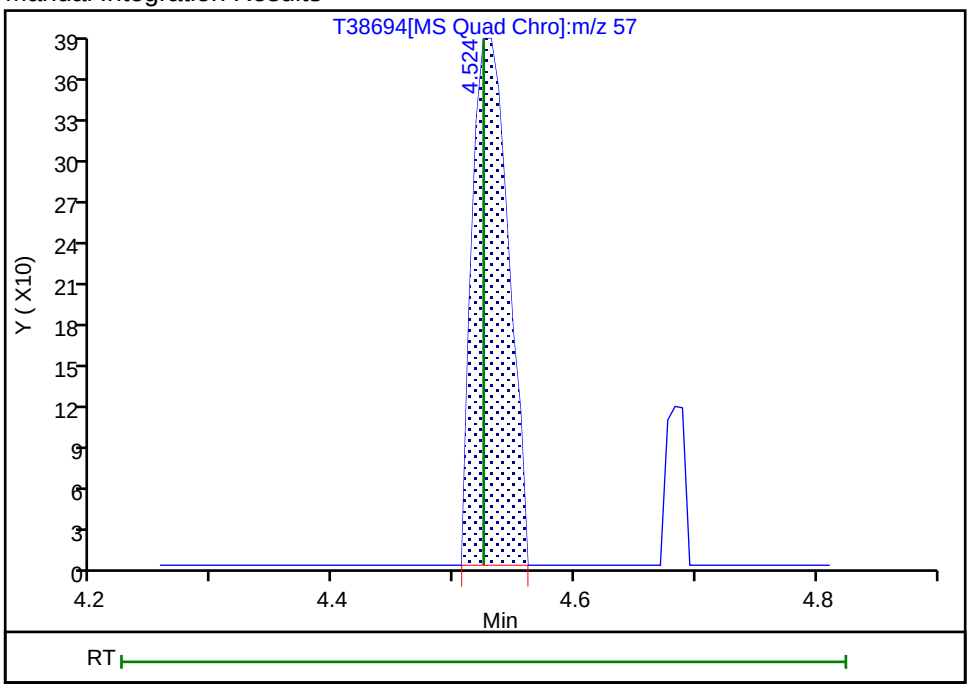
Not Detected
Expected RT: 4.52

Processing Integration Results



Manual Integration Results

RT: 4.52
Area: 804
Amount: 4.124419
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:53:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

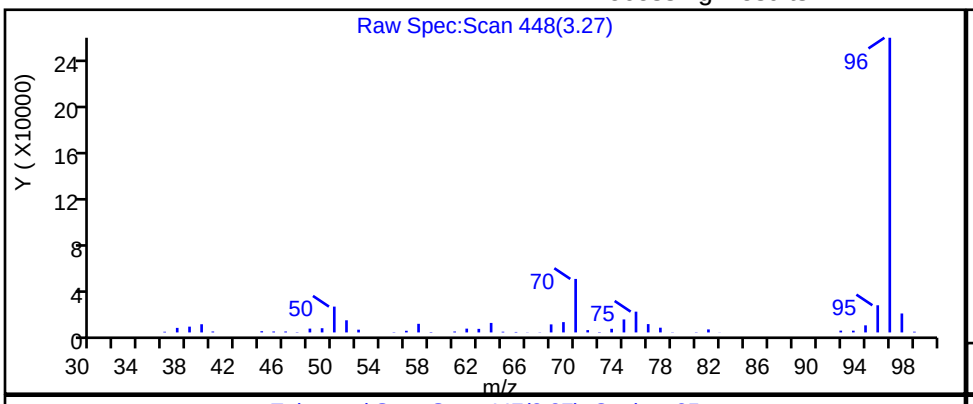
User Disabled Compound Report

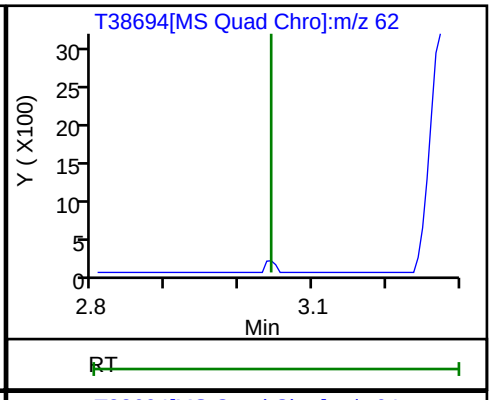
Eurofins TestAmerica, Edison

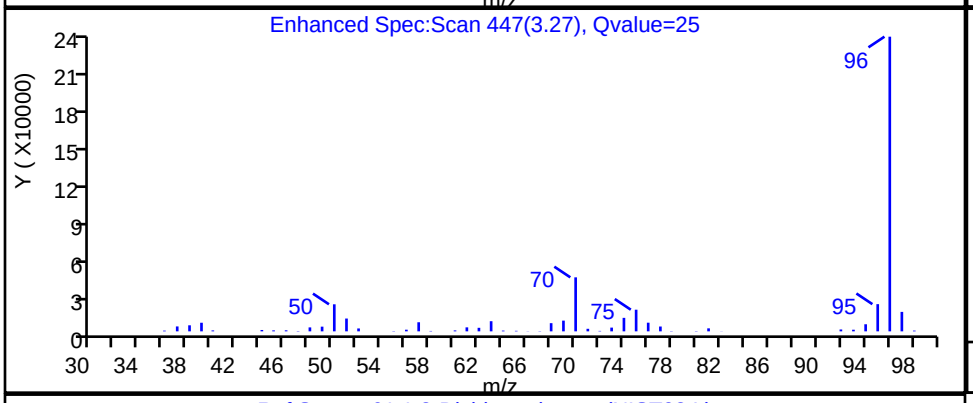
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

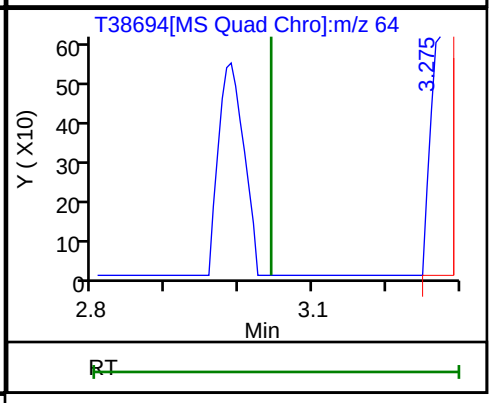
61 1,2-Dichloroethane, CAS: 107-06-2

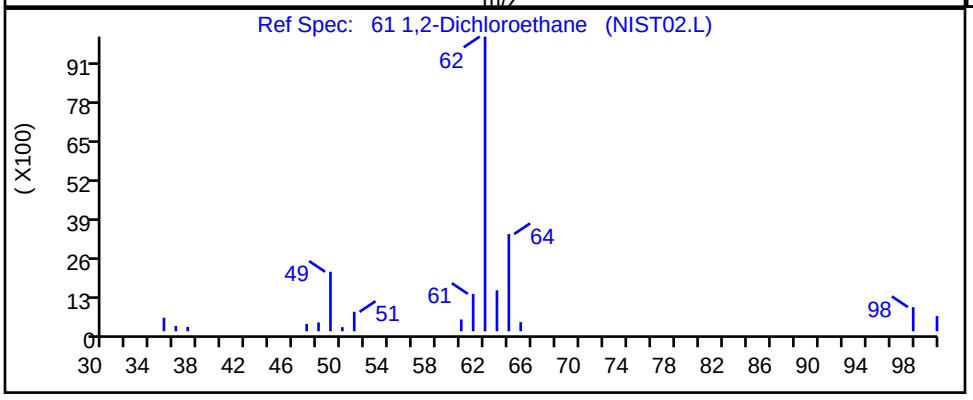
Processing Results











RT	Mass	Response	Amount
3.27	62.00	5756	1.787485
3.27	64.00	936	

Reviewer: delpolitov, 04-Sep-2020 16:52:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

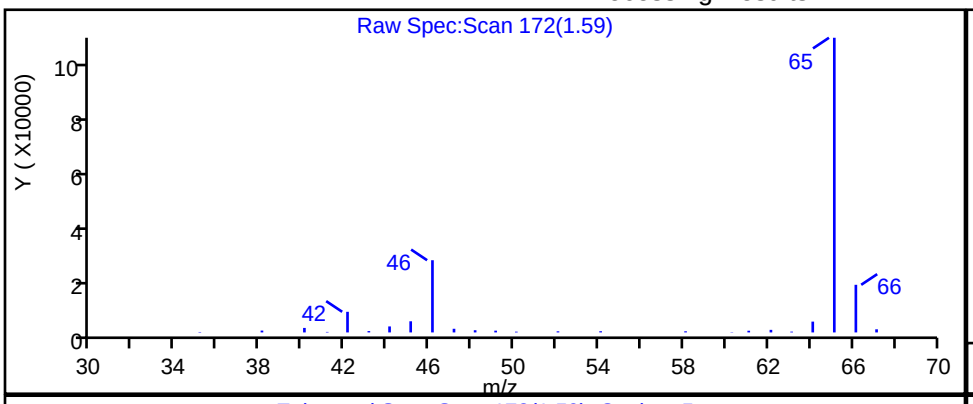
User Disabled Compound Report

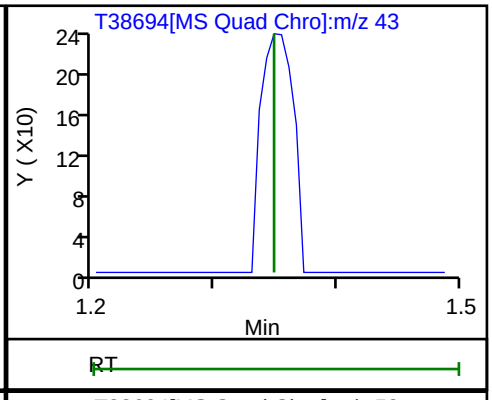
Eurofins TestAmerica, Edison

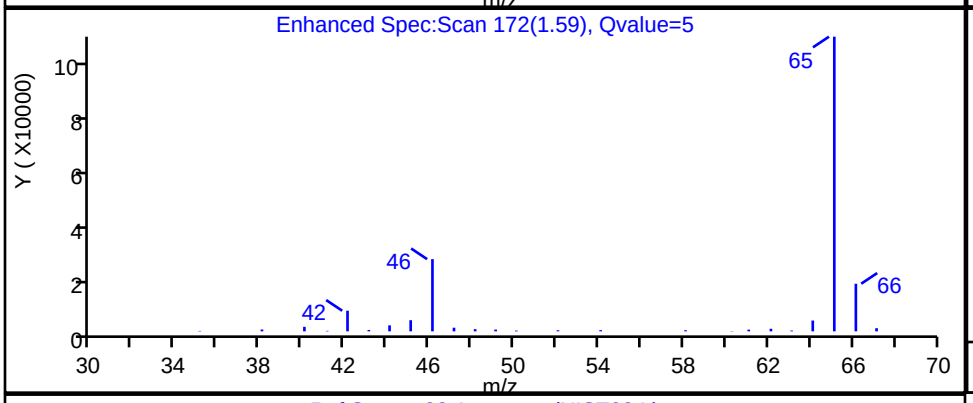
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

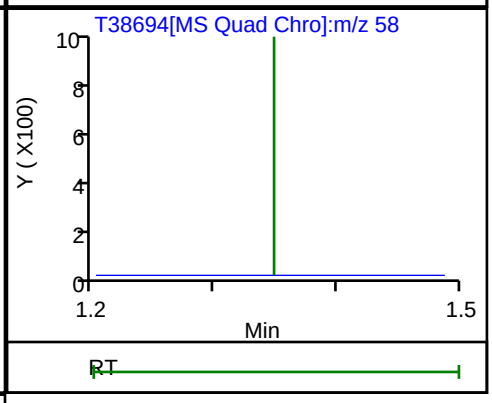
22 Acetone, CAS: 67-64-1

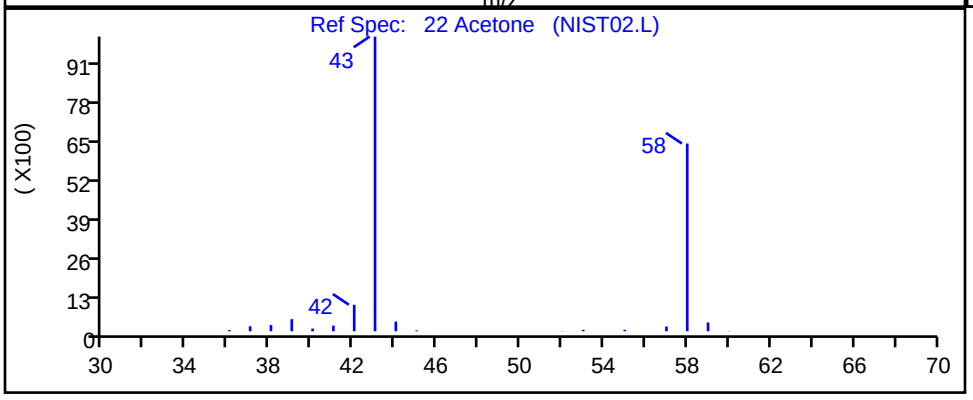
Processing Results











RT	Mass	Response	Amount
1.59	43.00	788	1.351608
1.59	58.00	654	

Reviewer: delpolitov, 04-Sep-2020 16:52:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

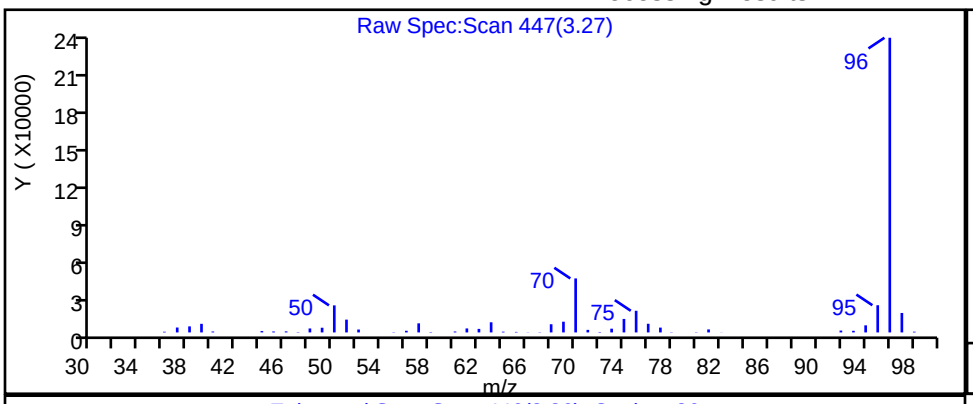
User Disabled Compound Report

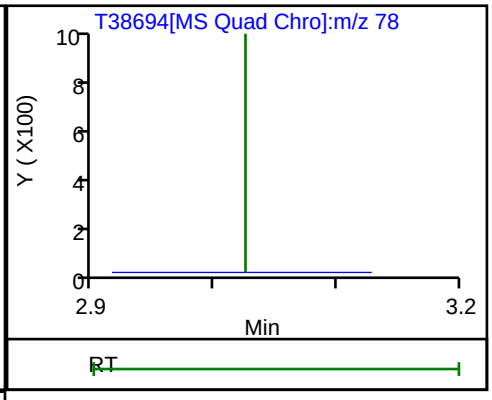
Eurofins TestAmerica, Edison

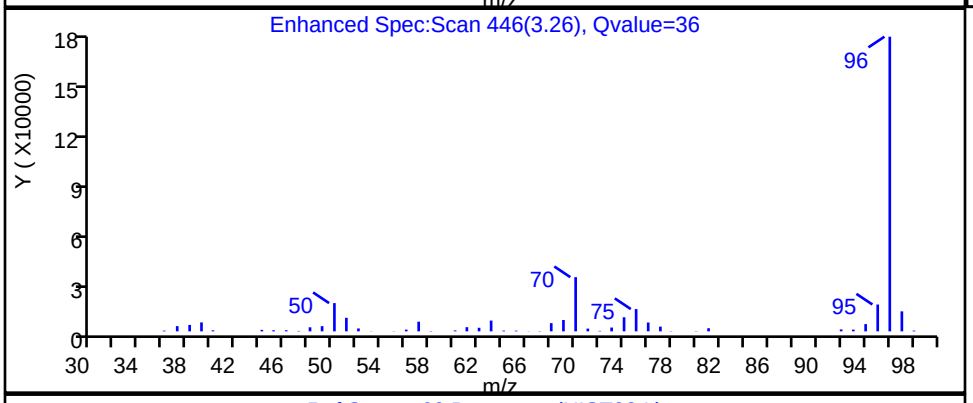
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

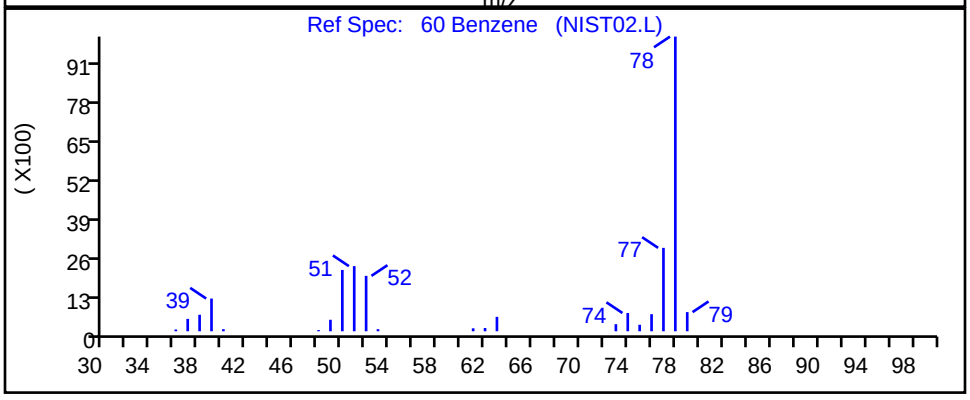
60 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.27	78.00	313	0.031498

Reviewer: delpolitov, 04-Sep-2020 16:52:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

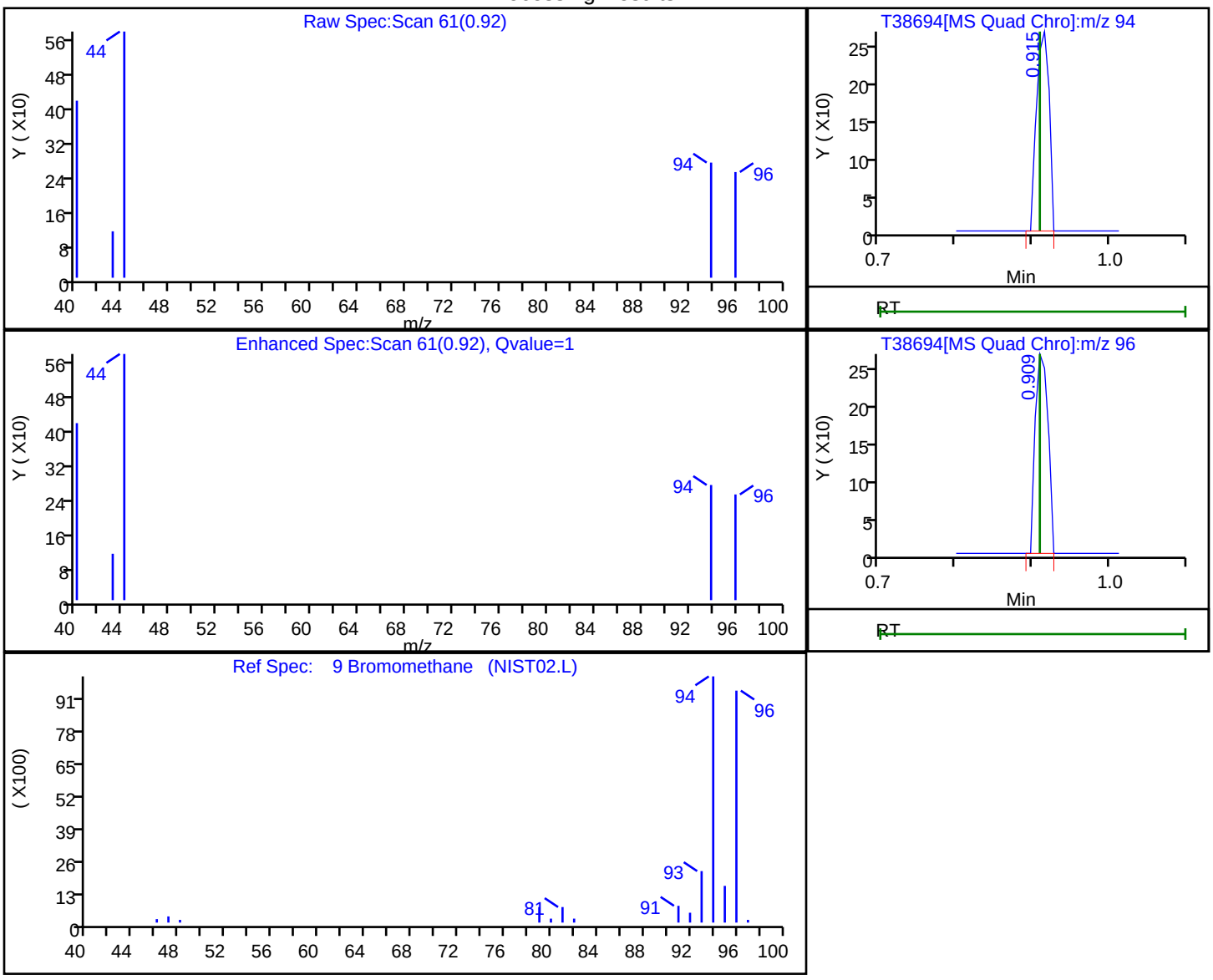
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

9 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
0.92	94.00	306	0.212820
0.91	96.00	308	

Reviewer: delpolitov, 04-Sep-2020 16:52:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

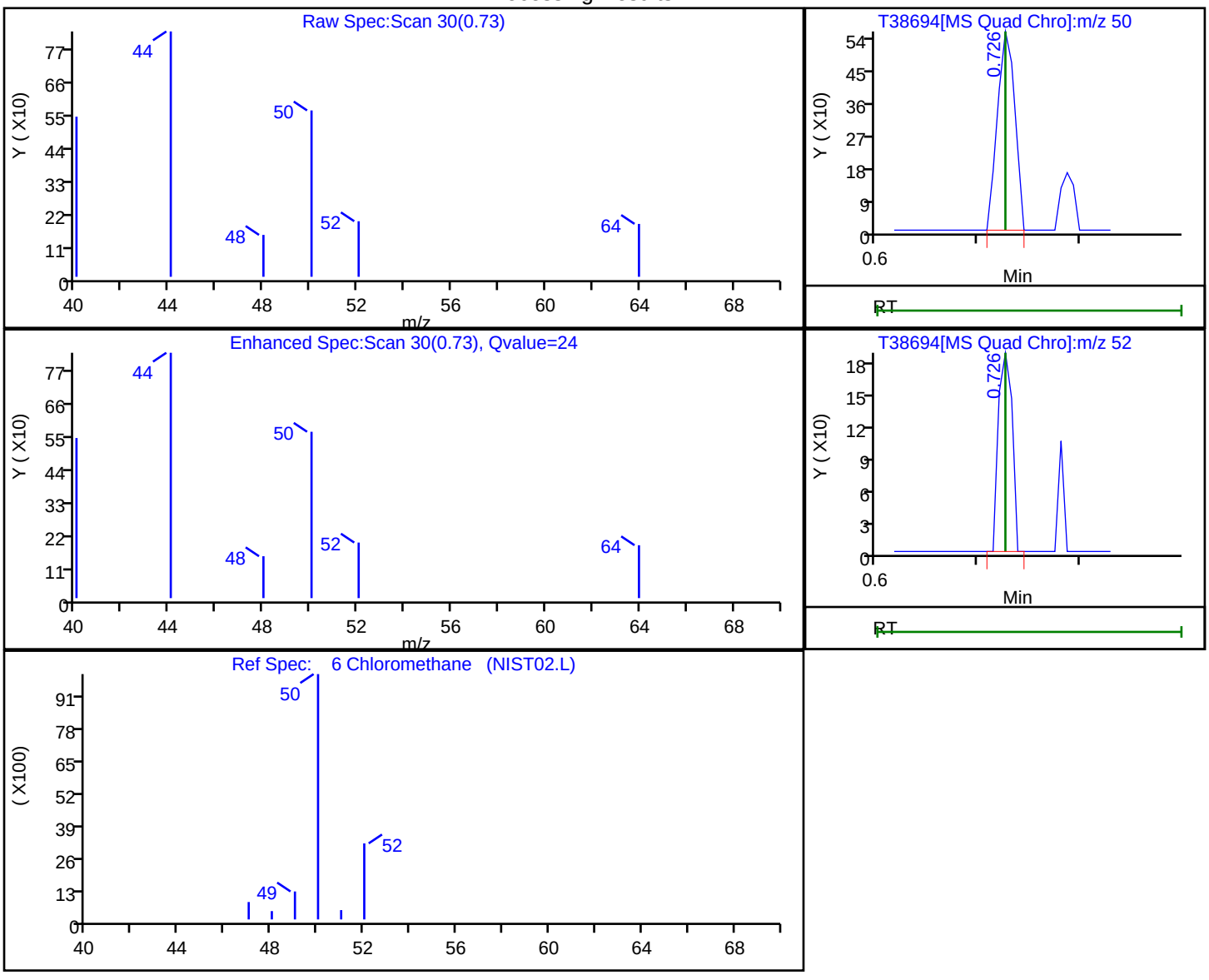
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.73	50.00	667	0.327413
0.73	52.00	176	

Reviewer: delpolitov, 04-Sep-2020 16:52:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

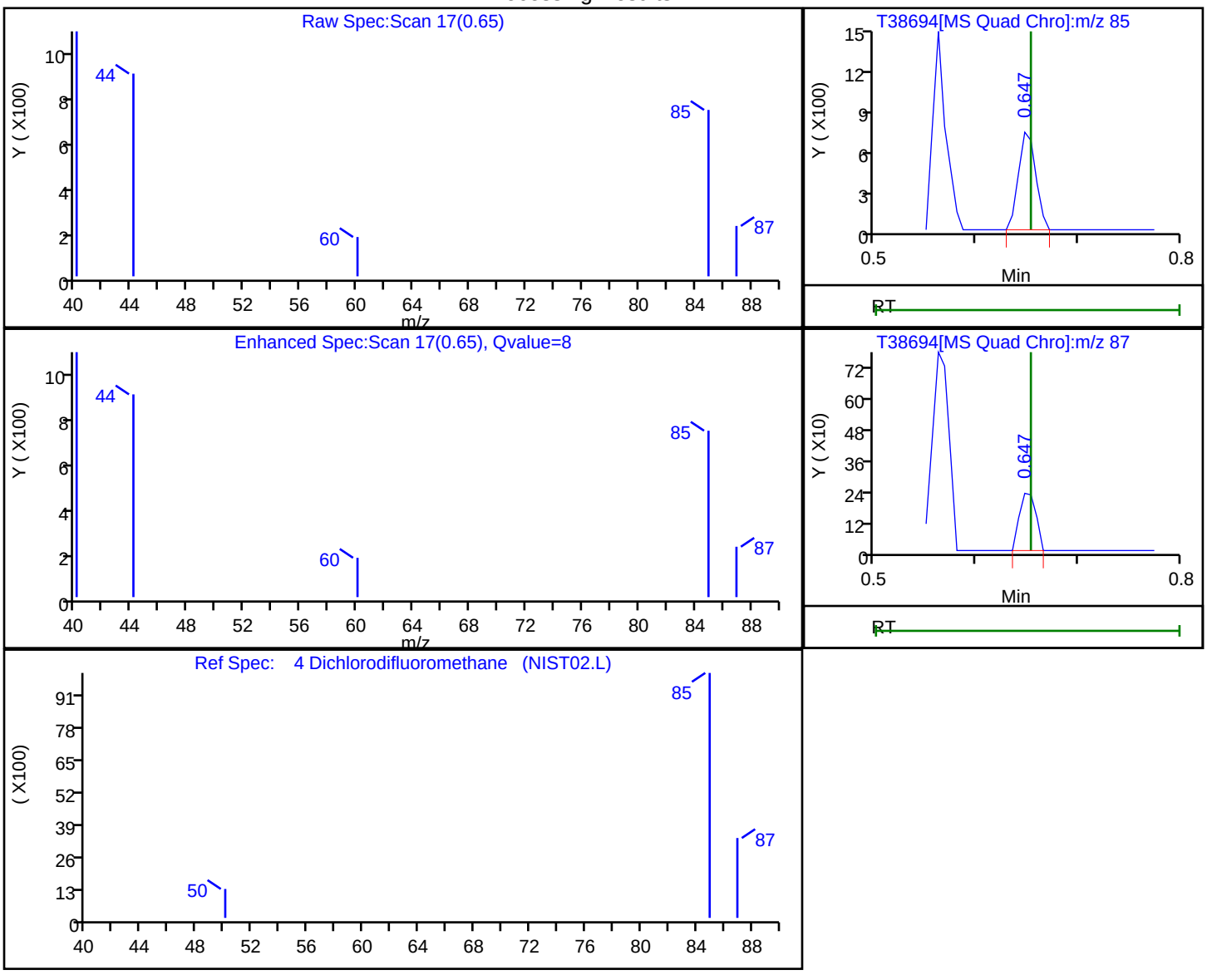
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

4 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.65	85.00	880	0.248732
0.65	87.00	254	

Reviewer: delpolitov, 04-Sep-2020 16:52:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

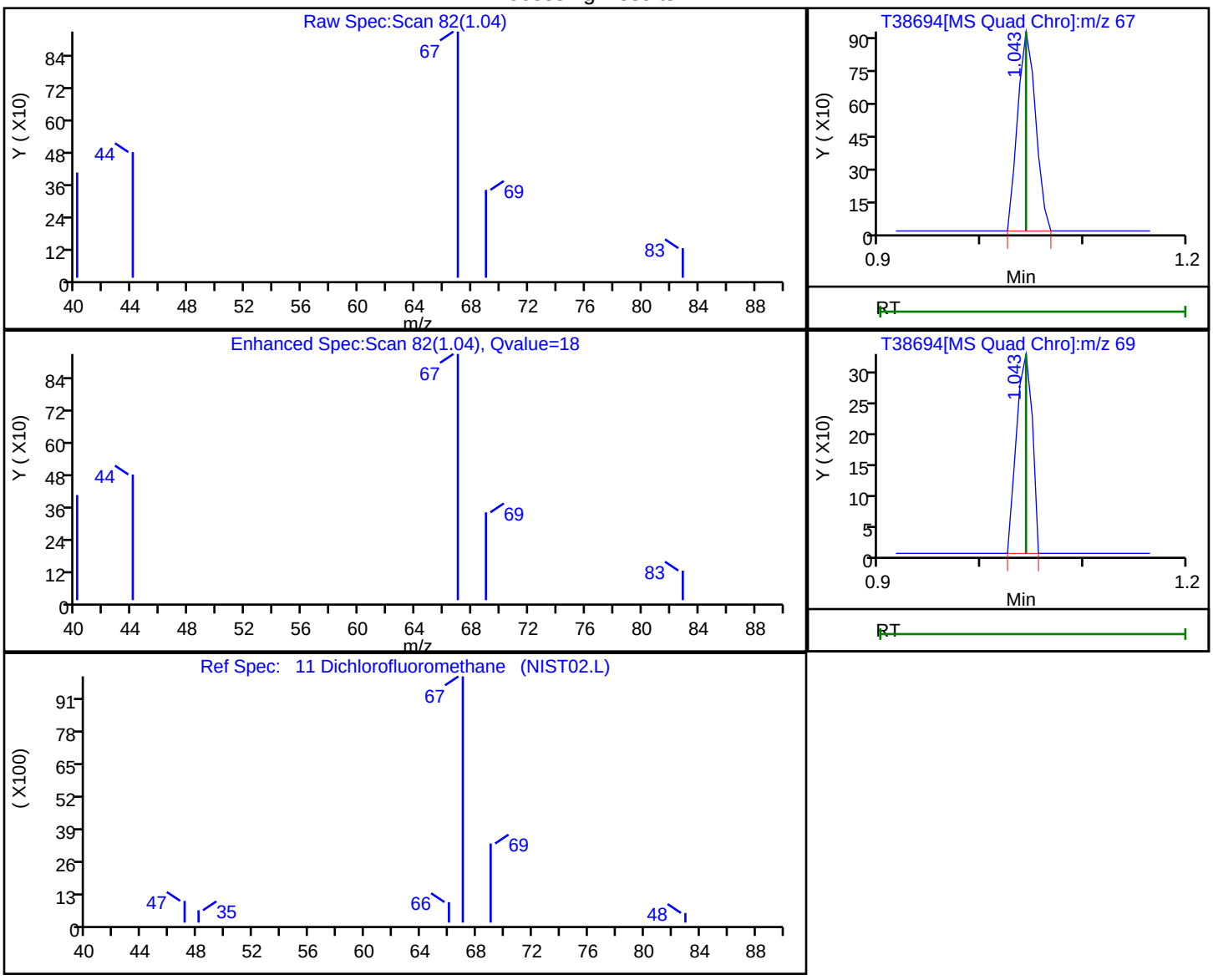
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
1.04	67.00	1130	0.271210
1.04	69.00	354	

Reviewer: delpolitov, 04-Sep-2020 16:52:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

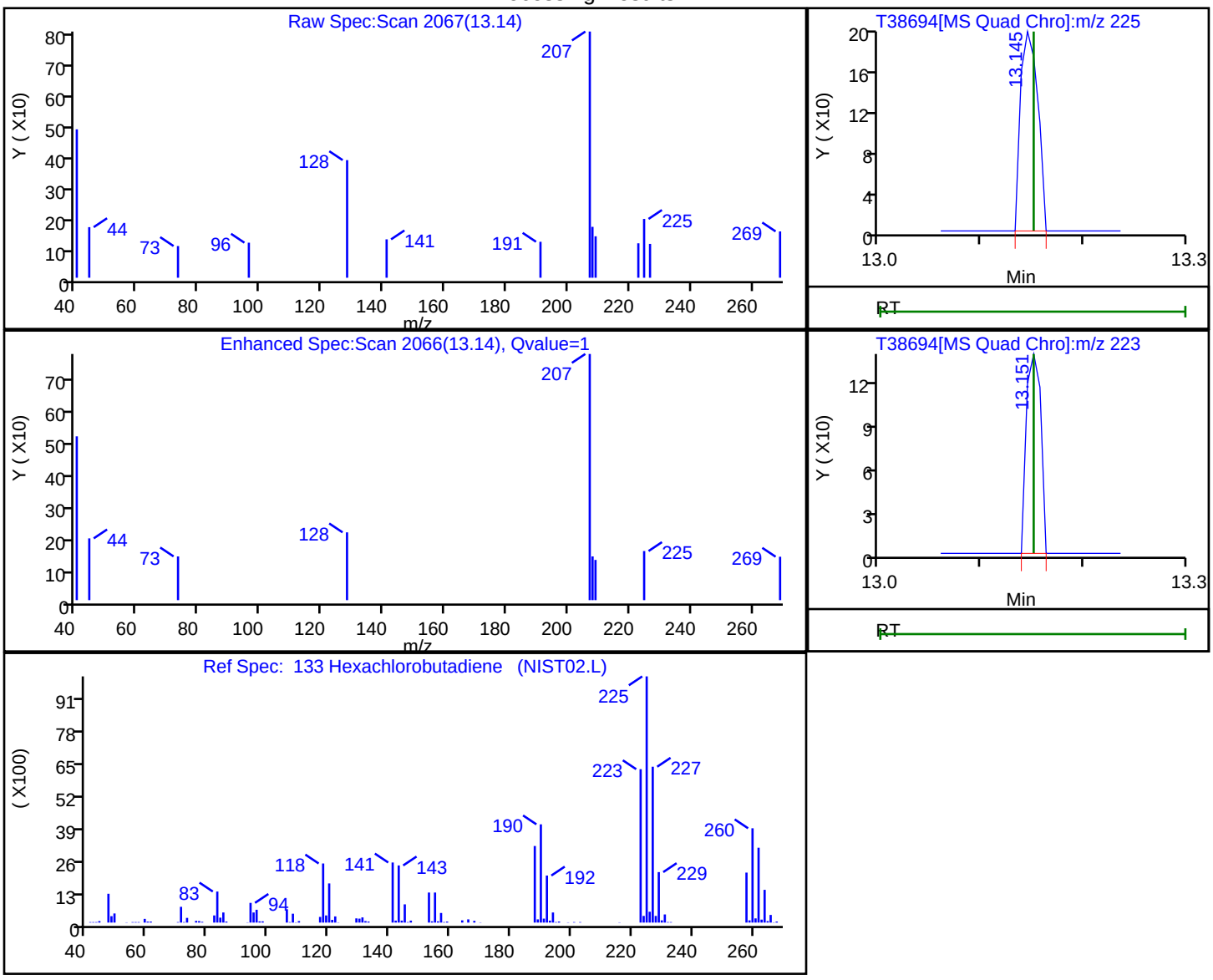
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

133 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
13.14	225.00	227	0.247741
13.15	223.00	130	

Reviewer: delpolitov, 04-Sep-2020 16:52:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

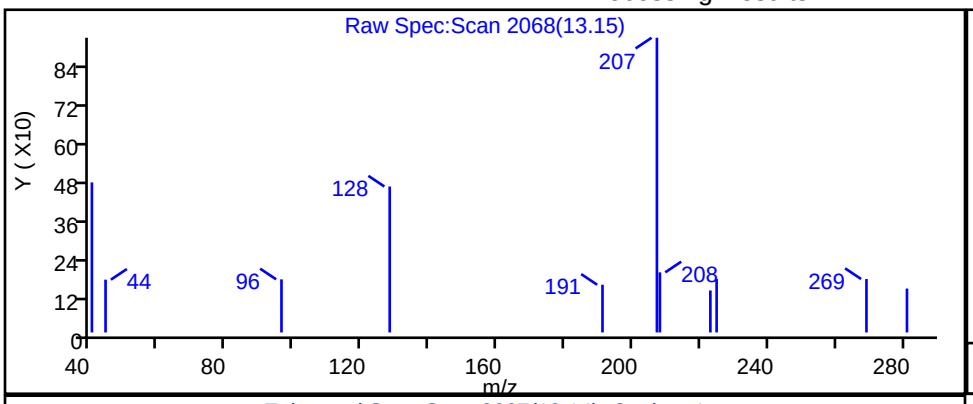
User Disabled Compound Report

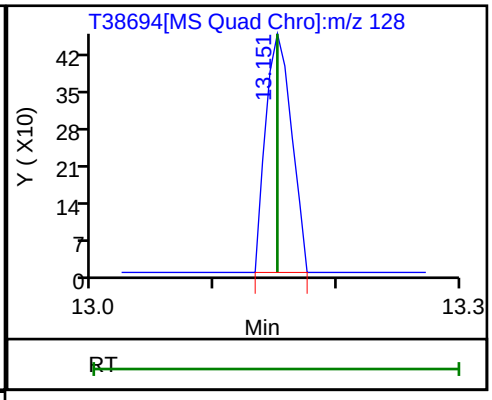
Eurofins TestAmerica, Edison

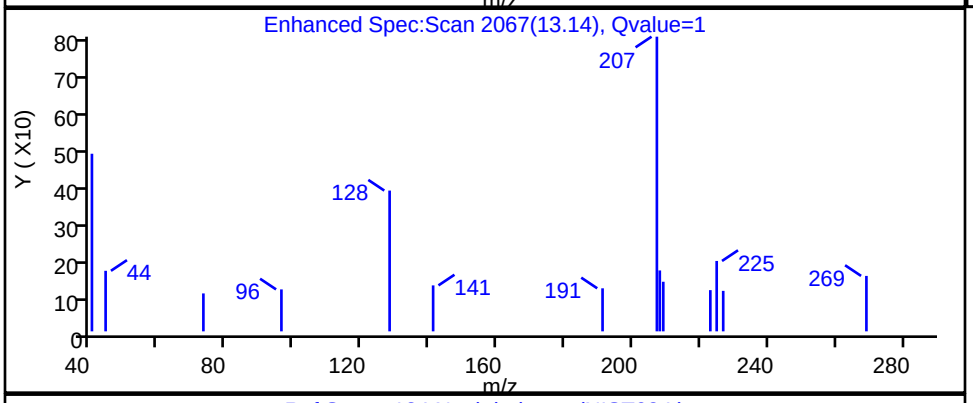
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

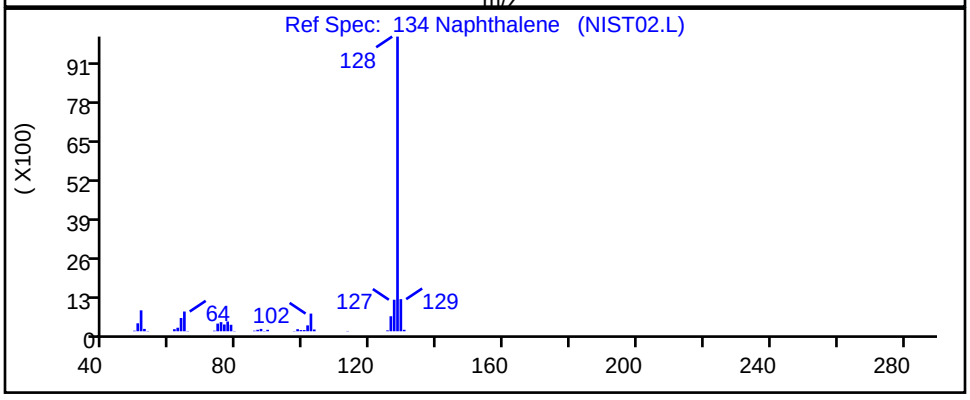
134 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
13.15	128.00	677	0.135664

Reviewer: delpolitov, 04-Sep-2020 16:52:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

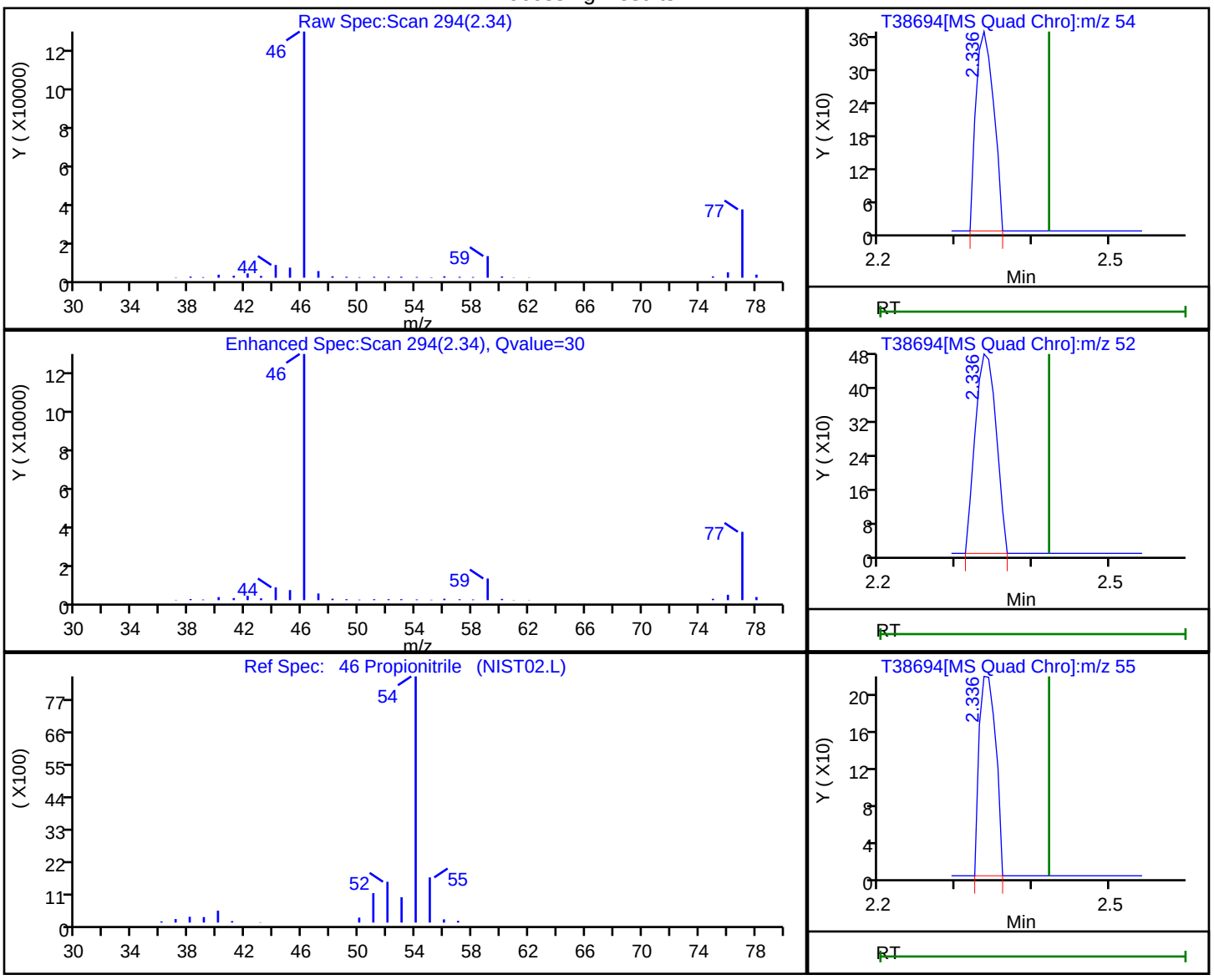
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

46 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
2.34	54.00	580	2.916037
2.34	52.00	913	
2.34	55.00	318	

Reviewer: delpolitov, 04-Sep-2020 16:52:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

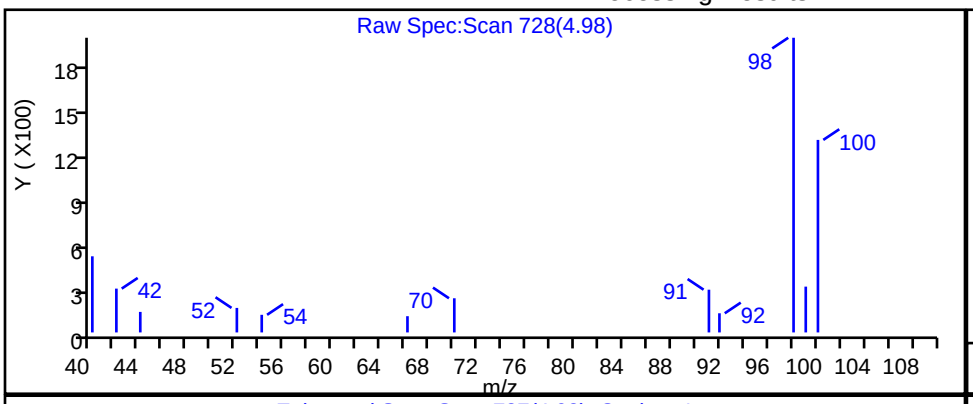
User Disabled Compound Report

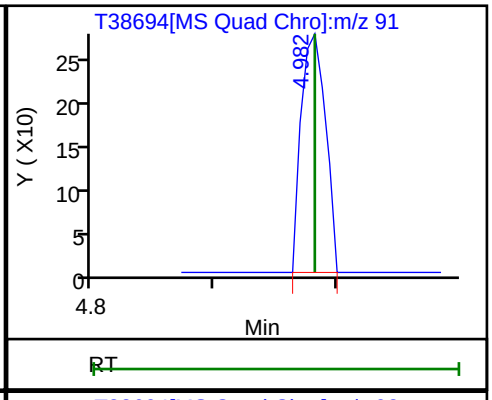
Eurofins TestAmerica, Edison

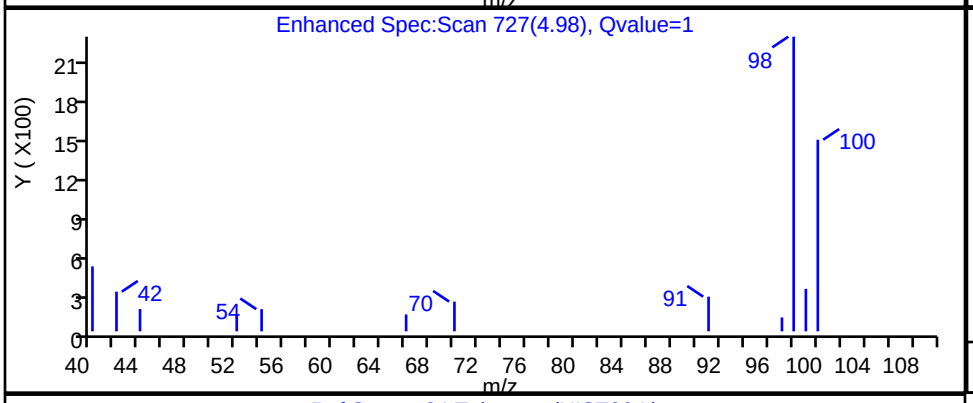
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

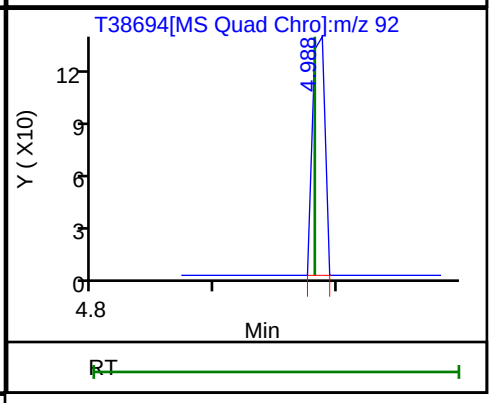
84 Toluene, CAS: 108-88-3

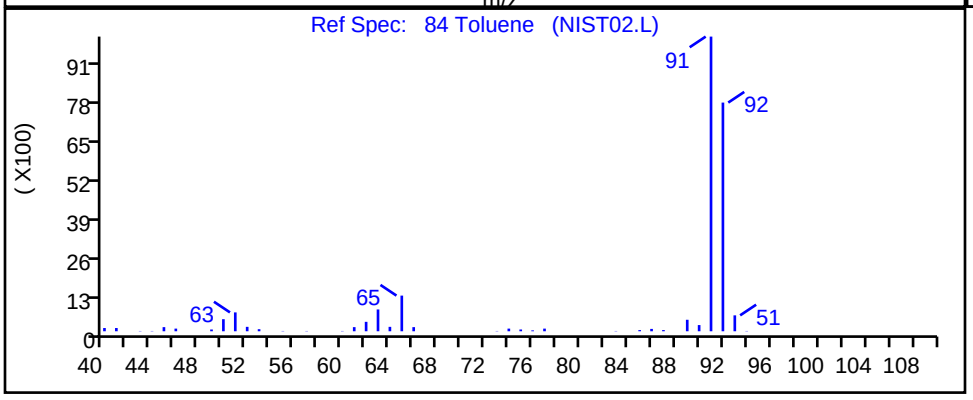
Processing Results











RT	Mass	Response	Amount
4.98	91.00	387	0.035546
4.99	92.00	94	

Reviewer: delpolitov, 04-Sep-2020 16:52:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

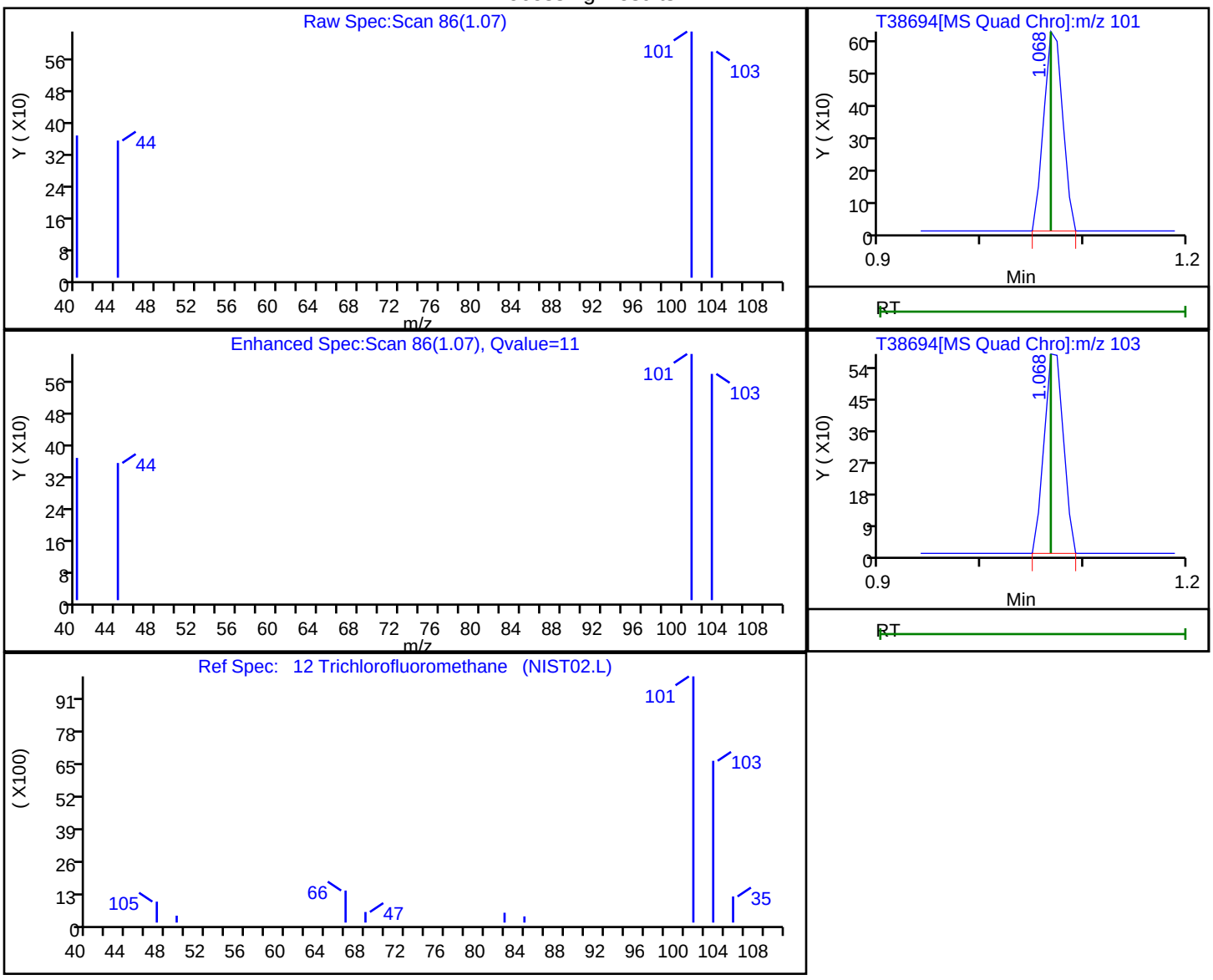
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38694.D
Injection Date: 04-Sep-2020 12:13:58 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

12 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.07	101.00	810	0.199883
1.07	103.00	761	

Reviewer: delpolitov, 04-Sep-2020 16:52:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Sep-2020 12:37:54 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 460-0116301-004
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:27:27 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: starzecm Date: 04-Sep-2020 13:04:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 1,1-Difluoroethane	65	0.641	0.635	0.006	63	530	0.5000	0.4576	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	1	265	0.5000	0.4675	a
4 Dichlorodifluoromethane	85	0.647	0.653	-0.006	73	1449	0.5000	0.4060	
5 Chlorodifluoromethane	67	0.653	0.659	-0.006	54	243	0.5000	0.5155	
6 Chloromethane	50	0.726	0.726	0.000	38	983	0.5000	0.5009	
7 Vinyl chloride	62	0.769	0.769	0.000	31	1243	0.5000	0.4702	
8 Butadiene	54	0.787	0.787	0.000	74	1043	0.5000	0.4692	
9 Bromomethane	94	0.909	0.909	0.000	54	637	0.5000	0.4464	
10 Chloroethane	64	0.958	0.952	0.006	41	868	0.5000	0.5163	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	40	2130	0.5000	0.5134	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	70	1869	0.5000	0.4448	
13 Pentane	72	1.104	1.110	-0.006	83	236	1.00	0.6377	
14 Ethanol	45	1.177	1.171	0.006	12	515	20.0	48.7	a
15 Ethyl ether	59	1.208	1.208	0.000	43	771	0.5000	0.4630	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	27	1077	0.5000	0.4422	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	40	792	0.5000	0.4230	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	24	1590	0.5000	0.4378	
19 Acrolein	56	1.269	1.269	0.000	10	418	2.00	1.65	
20 1,1-Dichloroethene	96	1.318	1.318	0.000	56	1193	0.5000	0.5085	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.324	1.318	0.006	48	1033	0.5000	0.4078	
22 Acetone	43	1.348	1.348	0.000	65	1594	2.50	2.63	
23 Iodomethane	142	1.391	1.391	0.000	1	144	0.5000	0.1111	a
24 Carbon disulfide	76	1.421	1.421	0.000	92	3871	0.5000	0.5128	
25 Isopropyl alcohol	45	1.427	1.427	0.000	1	542	5.00	4.96	a
26 Acetonitrile	40	1.494	1.494	0.000	85	867	5.00	6.59	
27 3-Chloro-1-propene	76	1.500	1.501	-0.001	57	706	0.5000	0.4679	
28 Methyl acetate	43	1.519	1.519	0.000	67	1409	1.00	1.09	
29 Cyclopentene	67	1.543	1.543	0.000	71	2235	0.5000	0.4210	
30 Methylene Chloride	84	1.568	1.568	0.000	47	1332	0.5000	0.5159	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	93	36325	1000.0	1000.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	1.647	1.647	0.000	1	1263	5.00	5.61	a
33 Acrylonitrile	53	1.708	1.708	0.000	88	3287	5.00	4.81	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	45	1159	0.5000	0.4430	
35 Methyl tert-butyl ether	73	1.726	1.732	-0.006	77	3125	0.5000	0.4789	
36 Hexane	57	1.891	1.891	0.000	74	941	0.5000	0.3541	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	47	2141	0.5000	0.5051	
38 Vinyl acetate	86	2.019	2.019	0.000	98	344	1.00	0.7345	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	22	1162	0.5000	0.4785	
40 Isopropyl ether	45	2.031	2.031	0.000	65	2945	0.5000	0.4872	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	61	2978	0.5000	0.4679	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	47	222146	250.0	250.0	
44 2,2-Dichloropropane	97	2.360	2.354	0.006	39	408	0.5000	0.4484	a
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	20	1474	0.5000	0.5026	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	22	2649	2.50	2.96	a
46 Propionitrile	54	2.427	2.421	0.006	16	1401	5.00	5.07	a
47 Ethyl acetate	70	2.439	2.439	0.000	63	79	1.00	0.3386	
48 Methyl acrylate	55	2.458	2.458	0.000	1	763	0.5000	0.3984	a
49 Chlorobromomethane	128	2.525	2.531	-0.006	34	689	0.5000	0.4903	
50 Methacrylonitrile	67	2.531	2.531	0.000	78	4134	5.00	4.67	
51 Tetrahydrofuran	72	2.573	2.574	-0.001	35	230	1.00	0.7999	a
52 Chloroform	83	2.598	2.598	0.000	70	2078	0.5000	0.4448	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	95	143526	50.0	50.3	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	2	2108	0.5000	0.4838	
55 Cyclohexane	84	2.769	2.769	0.000	37	1427	0.5000	0.4107	
56 Carbon tetrachloride	117	2.854	2.860	-0.006	80	1512	0.5000	0.4116	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	42	1555	0.5000	0.4266	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	91	146689	50.0	50.9	
59 Isobutyl alcohol	43	3.025	3.019	0.006	4	546	12.5	8.09	
60 Benzene	78	3.025	3.025	0.000	76	5260	0.5000	0.5245	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	19	1595	0.5000	0.4914	
62 Isooctane	57	3.116	3.116	0.000	68	1862	0.5000	0.4010	a
63 Isopropyl acetate	61	3.147	3.147	0.000	63	280	0.5000	0.3870	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	66	2988	0.5000	0.4616	
* 65 Fluorobenzene	96	3.275	3.275	0.000	99	489206	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	12	778	0.5000	0.4079	a
67 Trichloroethene	95	3.610	3.610	0.000	49	1463	0.5000	0.5121	
69 Ethyl acrylate	55	3.787	3.775	0.013	0	1913	0.5000	0.3918	
70 Methylcyclohexane	83	3.787	3.787	0.000	33	1397	0.5000	0.3968	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	28	1087	0.5000	0.4806	
72 Dibromomethane	93	3.933	3.933	0.000	4	669	0.5000	0.4208	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	1	24503	1000.0	1000.0	M
74 1,4-Dioxane	88	3.988	3.988	0.000	1	462	25.0	20.3	
75 Methyl methacrylate	100	4.000	4.000	0.000	30	372	1.00	0.6351	
76 n-Propyl acetate	43	4.085	4.085	0.000	29	1207	0.5000	0.5051	
77 Dichlorobromomethane	83	4.116	4.116	0.000	26	1613	0.5000	0.4635	
78 2-Nitropropane	41	4.366	4.366	0.000	16	428	1.00	0.9345	
80 Epichlorohydrin	57	4.524	4.524	0.000	7	1900	10.0	9.39	a
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	40	1843	0.5000	0.4442	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	81	3711	2.50	2.23	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	469904	50.0	49.6	
84 Toluene	91	4.982	4.982	0.000	79	5468	0.5000	0.4977	
85 trans-1,3-Dichloropropene	75	5.292	5.286	0.006	35	1808	0.5000	0.4854	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69	5.475	5.475	0.000	9	1069	0.5000	0.4029	M
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	30	942	0.5000	0.5041	
88 Tetrachloroethene	166	5.634	5.640	-0.006	36	1186	0.5000	0.4006	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	20	1627	0.5000	0.4520	
90 2-Hexanone	43	5.896	5.884	0.012	52	2345	2.50	2.07	
91 Chlorodibromomethane	129	5.969	5.975	-0.006	3	1192	0.5000	0.4326	
92 Ethylene Dibromide	107	6.085	6.085	0.000	33	1017	0.5000	0.4152	
93 n-Butyl acetate	43	6.122	6.116	0.006	14	1280	0.5000	0.4932	a
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	83	371186	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	29	3594	0.5000	0.5133	
96 1,1,1,2-Tetrachloroethane	131	6.926	6.932	-0.006	47	1187	0.5000	0.4474	
97 Ethylbenzene	106	6.993	6.993	0.000	62	1672	0.5000	0.4541	
98 m-Xylene & p-Xylene	106	7.182	7.176	0.006	0	2170	0.5000	0.4761	
99 o-Xylene	106	7.737	7.743	-0.006	40	2026	0.5000	0.4773	
100 Styrene	104	7.780	7.774	0.006	53	3072	0.5000	0.4521	
101 n-Butyl acrylate	73	7.865	7.865	0.000	42	619	0.5000	0.4263	
102 Bromoform	173	7.987	7.987	0.000	1	848	0.5000	0.4682	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	36	1351	0.5000	0.4866	
104 Isopropylbenzene	105	8.341	8.341	0.000	42	4615	0.5000	0.4366	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	90	151743	50.0	49.6	
106 Bromobenzene	156	8.700	8.700	0.000	50	1226	0.5000	0.4437	
107 1,1,2,2-Tetrachloroethane	83	8.865	8.859	0.006	1	1185	0.5000	0.4613	
108 1,2,3-Trichloropropane	110	8.859	8.865	-0.006	1	383	0.5000	0.4933	
109 trans-1,4-Dichloro-2-butene	53	8.950	8.956	-0.006	1	183	0.5000	0.5027	
110 N-Propylbenzene	91	8.993	8.993	0.000	63	5965	0.5000	0.4913	
111 2-Chlorotoluene	91	9.054	9.048	0.006	1	3155	0.5000	0.4493	
112 4-Ethyltoluene	105	9.194	9.194	0.000	45	4756	0.5000	0.5032	
113 4-Chlorotoluene	91	9.237	9.237	0.000	2	3935	0.5000	0.5198	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	48	3840	0.5000	0.5024	
115 Butyl Methacrylate	87	9.621	9.621	0.000	28	1219	0.5000	0.4689	
116 tert-Butylbenzene	119	9.810	9.810	0.000	32	3172	0.5000	0.4795	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	13	3736	0.5000	0.4950	
118 sec-Butylbenzene	105	10.176	10.176	0.000	55	4181	0.5000	0.4622	
119 1,3-Dichlorobenzene	146	10.261	10.255	0.006	37	2060	0.5000	0.4517	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	170073	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.413	10.414	-0.001	18	2544	0.5000	0.5429	a
122 4-Isopropyltoluene	119	10.456	10.456	0.000	8	3302	0.5000	0.4357	
123 1,2,3-Trimethylbenzene	105	10.554	10.560	-0.006	13	3433	0.5000	0.4658	
124 Benzyl chloride	91	10.682	10.682	0.000	1	2365	0.5000	0.5129	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	32	3601	0.5000	0.4926	a
126 1,2-Dichlorobenzene	146	10.999	10.999	0.000	33	1867	0.5000	0.4538	
127 p-Diethylbenzene	119	11.108	11.109	-0.001	13	1524	0.5000	0.4233	a
128 n-Butylbenzene	92	11.139	11.139	0.000	52	1550	0.5000	0.4400	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	1	86	0.5000	0.4830	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	21	2624	0.5000	0.4649	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	23	1065	0.5000	0.4559	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	7	977	0.5000	0.5032	
133 Hexachlorobutadiene	225	13.145	13.151	-0.006	1	714	0.5000	0.5293	
134 Naphthalene	128	13.151	13.151	0.000	19	2606	0.5000	0.5230	
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	1	747	0.5000	0.4983	a
S 136 1,2-Dichloroethene, Total	100				0		1.00	0.9456	
S 137 Xylenes, Total	100				0		1.00	0.9534	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 140 Total BTEX	1				0		2.50	2.43	
S 139 1,3-Dichloropropene, Total	1				0		1.00	0.9296	
S 138 Total 1,2-dichloroethene	1				0			0.9456	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	5.00	Units: uL	
ACROLEIN W_00112	Amount Added:	2.00	Units: uL	
GASES Li_00384	Amount Added:	5.00	Units: uL	
524freon_00027	Amount Added:	5.00	Units: uL	
14DIOXINTER_00118	Amount Added:	15.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:27:28 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D

Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15

Lims ID: STD05

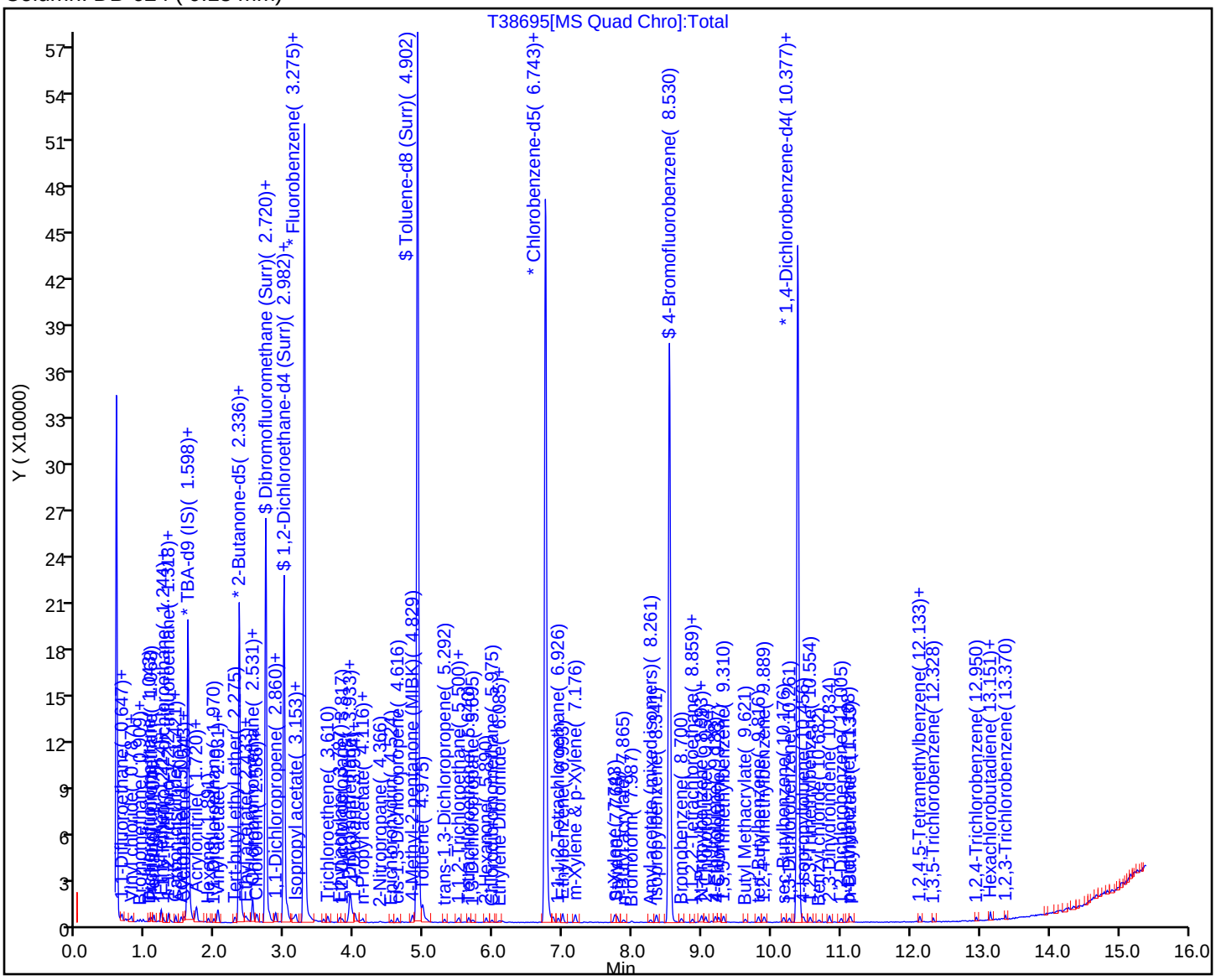
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

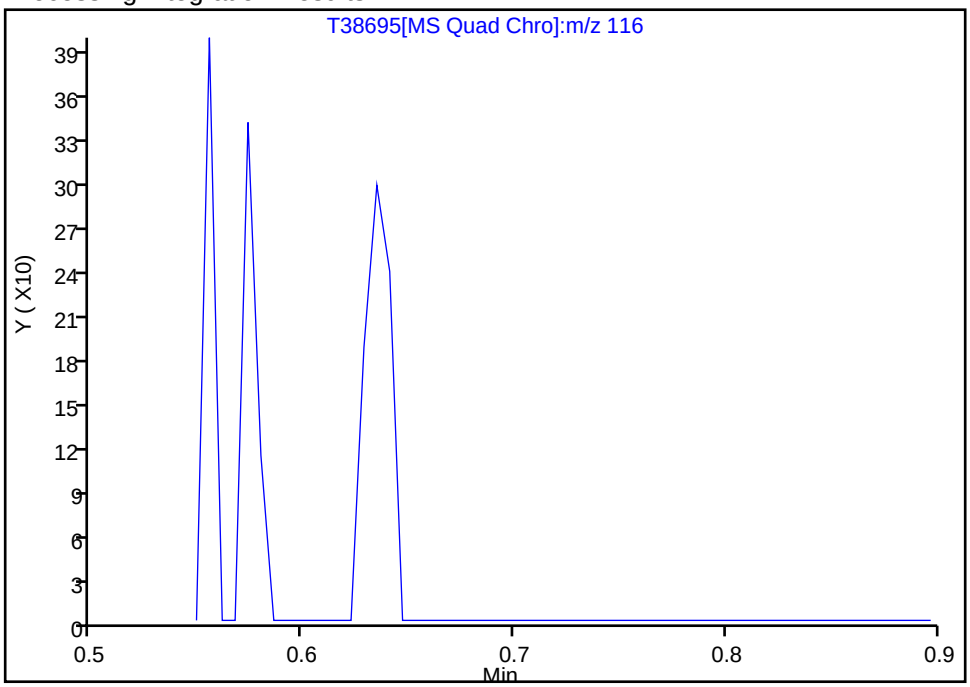
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

3 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

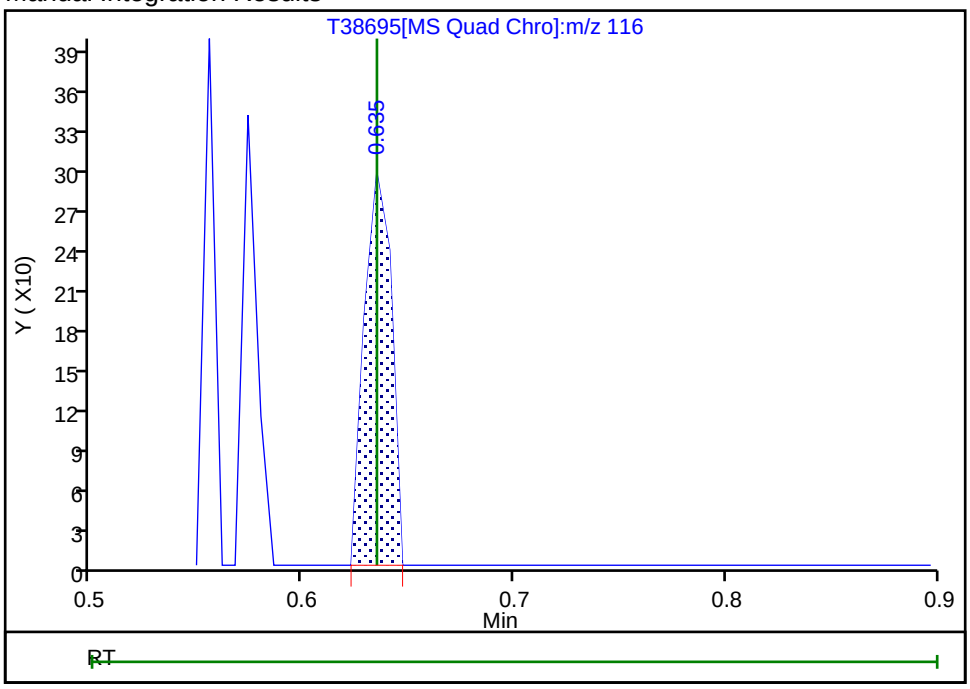
Not Detected
Expected RT: 0.63

Processing Integration Results



Manual Integration Results

RT: 0.63
Area: 265
Amount: 0.467539
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:53:57
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

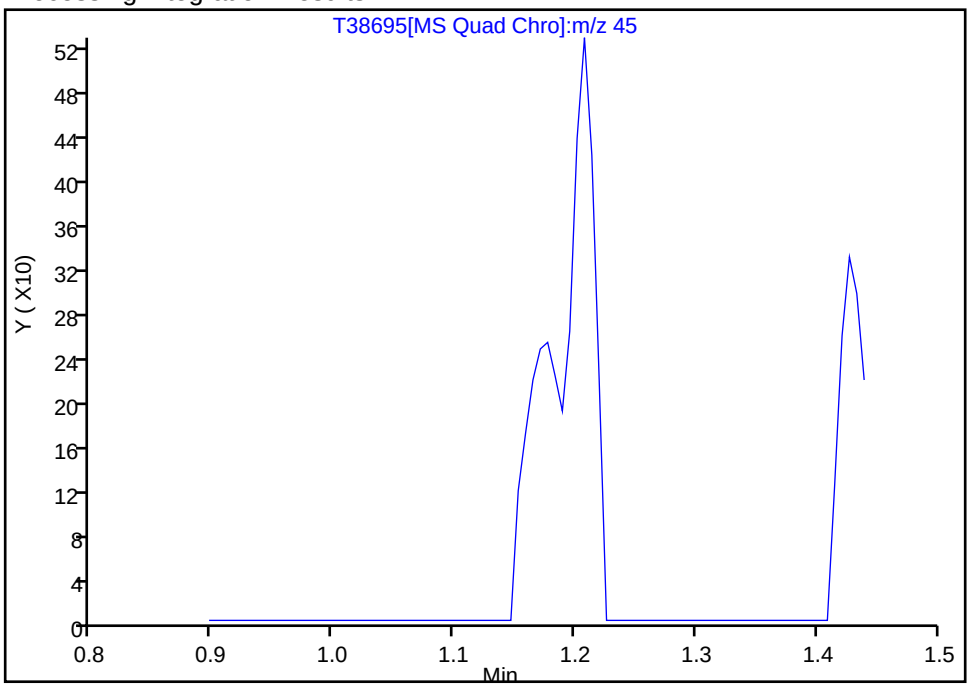
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

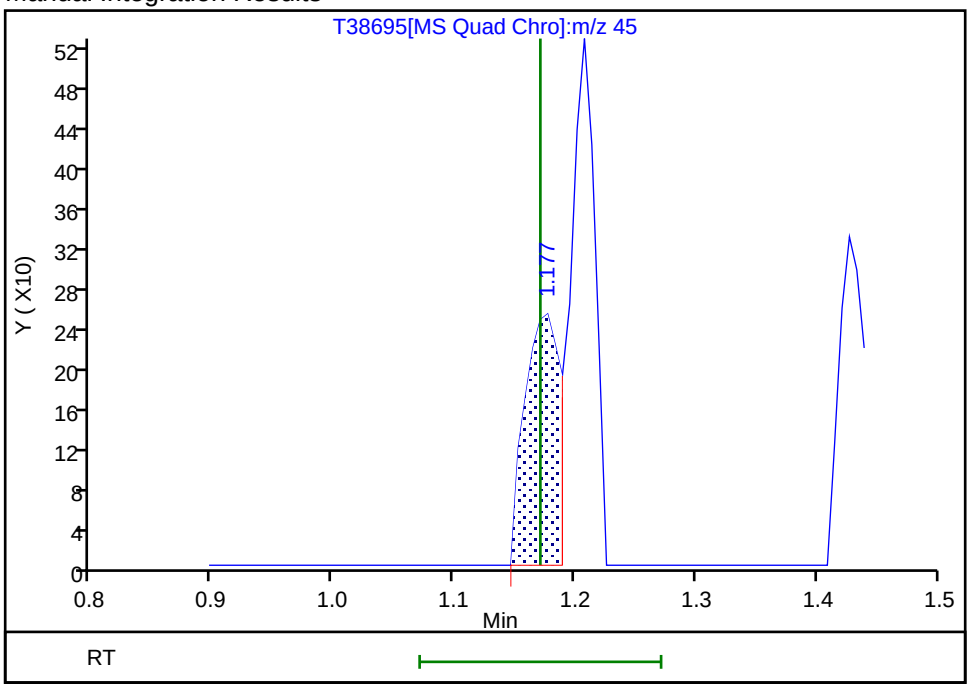
Not Detected
Expected RT: 1.17

Processing Integration Results



Manual Integration Results

RT: 1.18
Area: 515
Amount: 48.690992
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:06
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

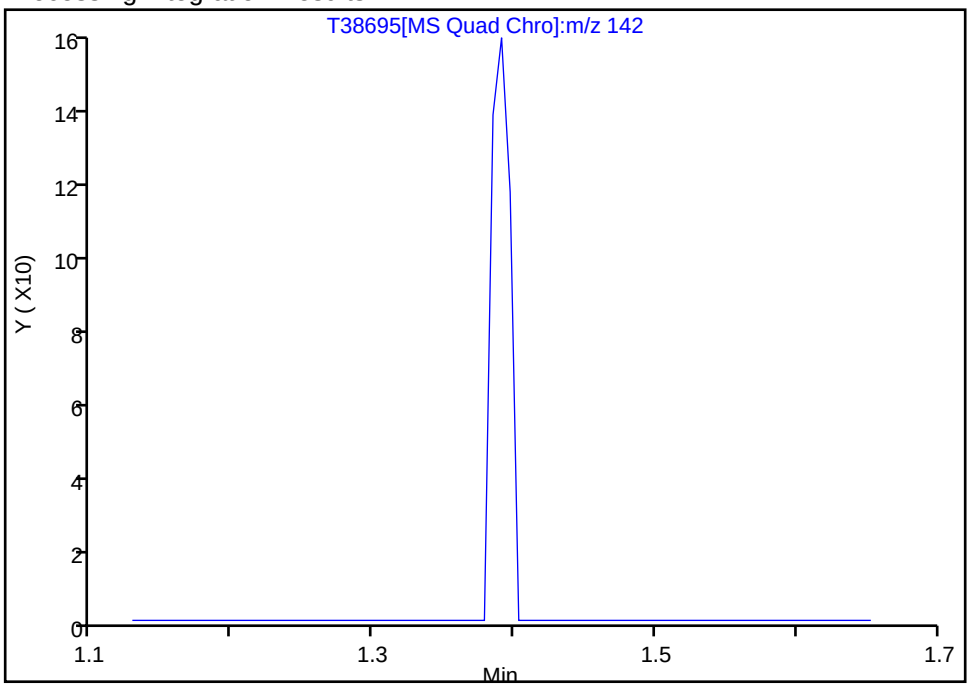
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

23 Iodomethane, CAS: 74-88-4

Signal: 1

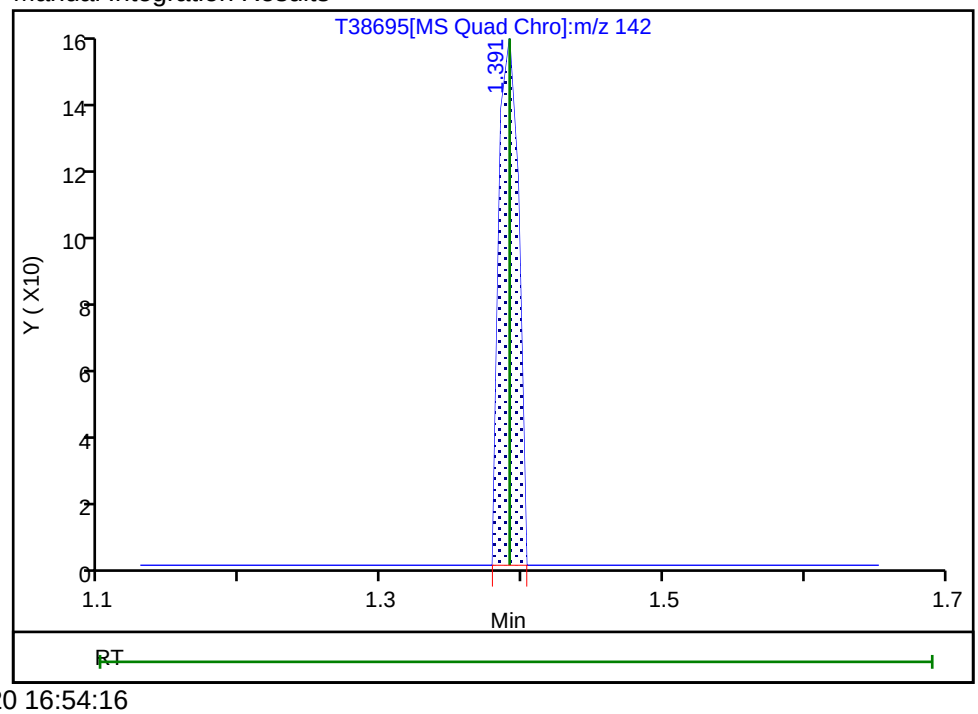
Processing Integration Results

Not Detected
Expected RT: 1.39



Manual Integration Results

RT: 1.39
Area: 144
Amount: 0.111093
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:16
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

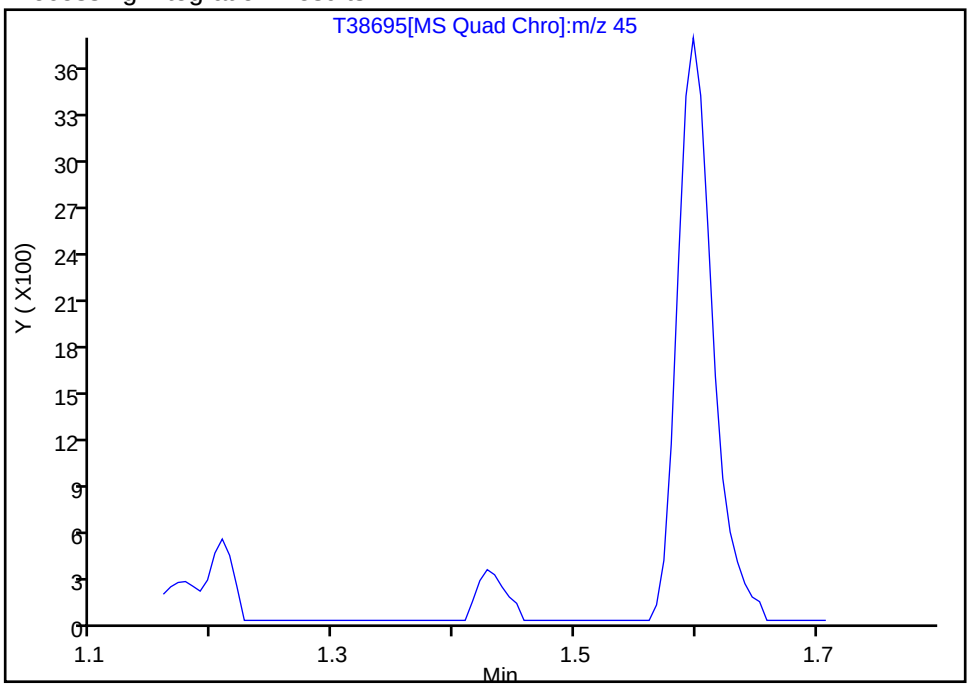
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

25 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

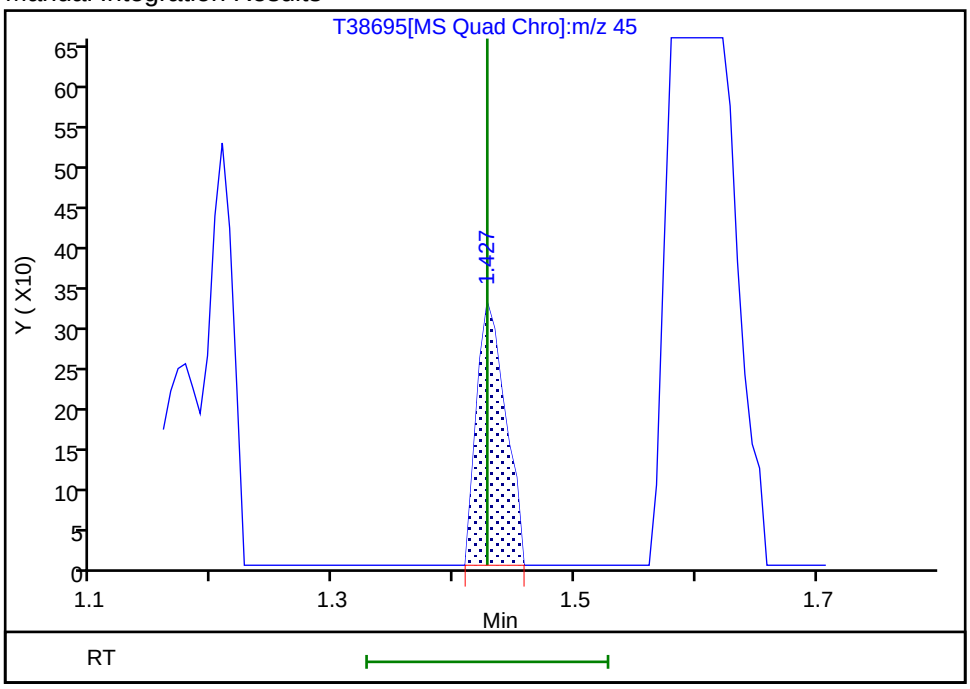
Not Detected
Expected RT: 1.43

Processing Integration Results



Manual Integration Results

RT: 1.43
Area: 542
Amount: 4.955986
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:20
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

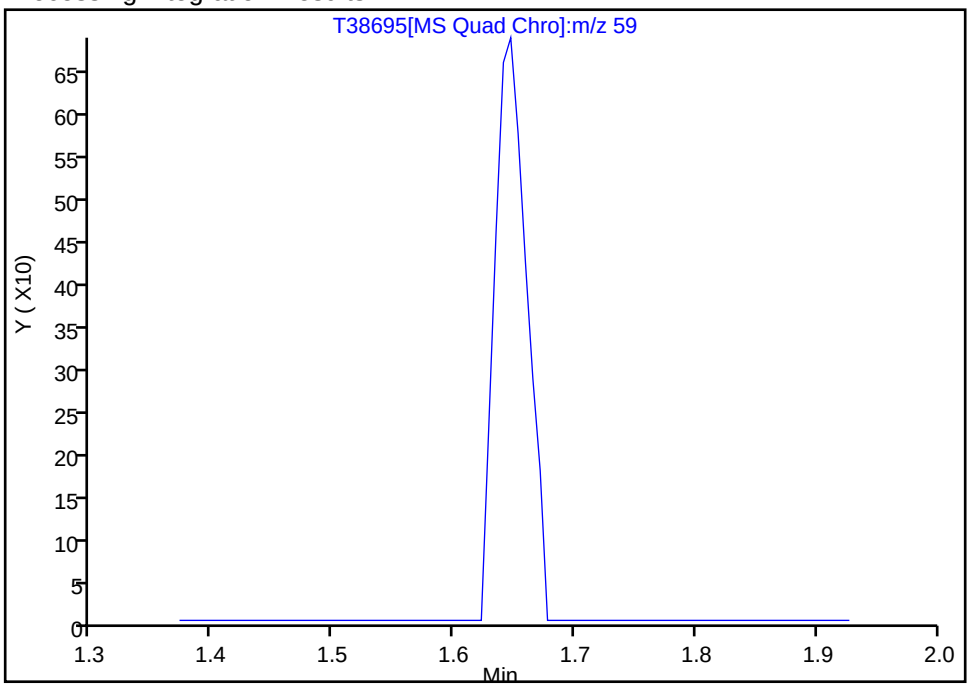
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

32 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

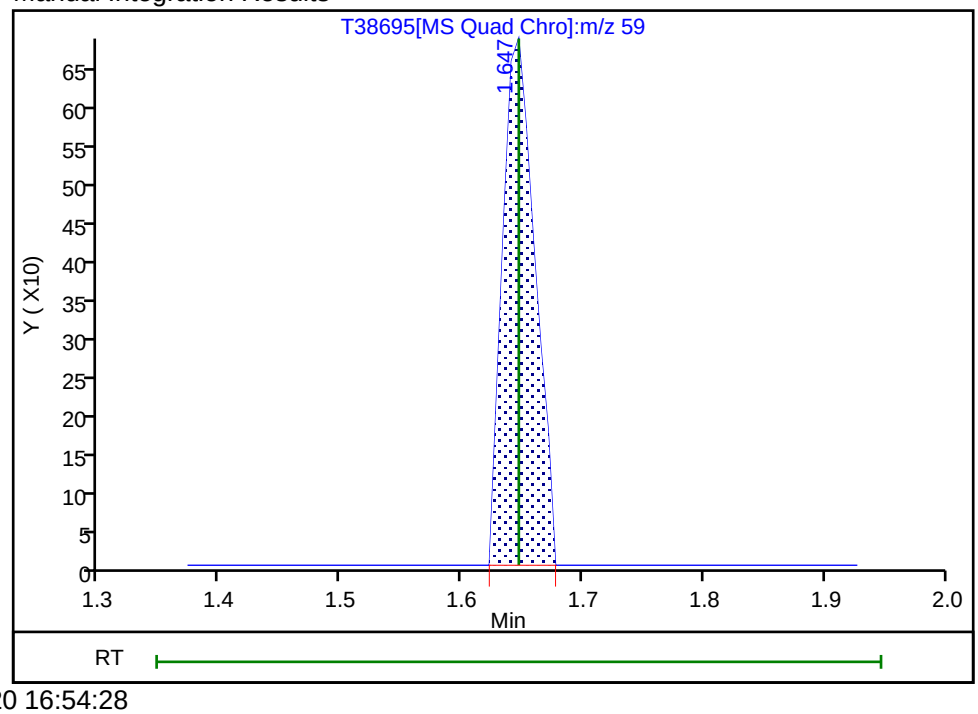
Not Detected
Expected RT: 1.65

Processing Integration Results



Manual Integration Results

RT: 1.65
Area: 1263
Amount: 5.614077
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:28
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

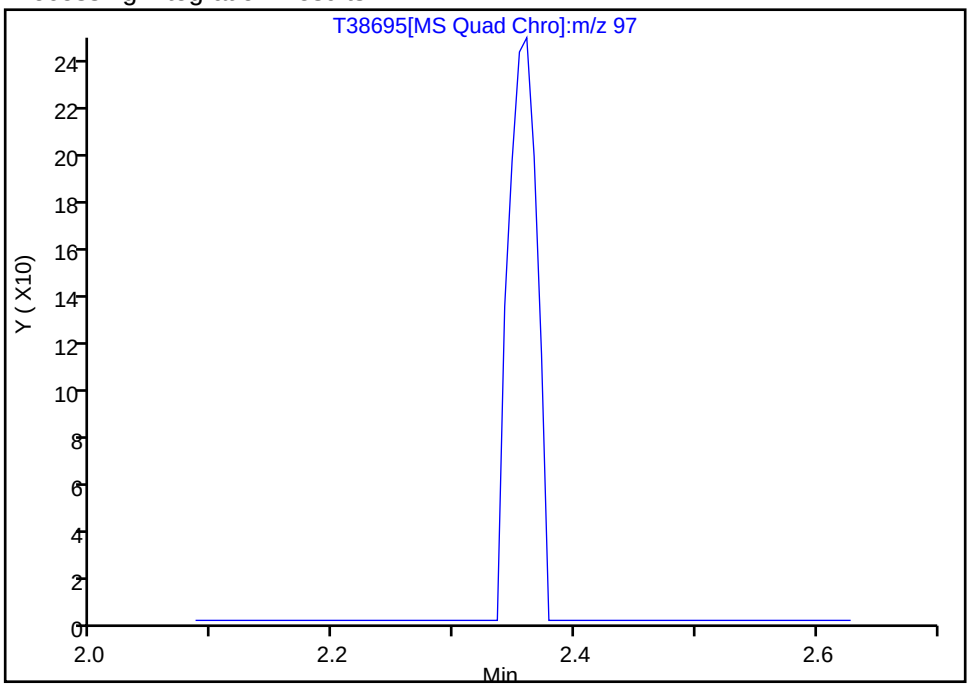
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

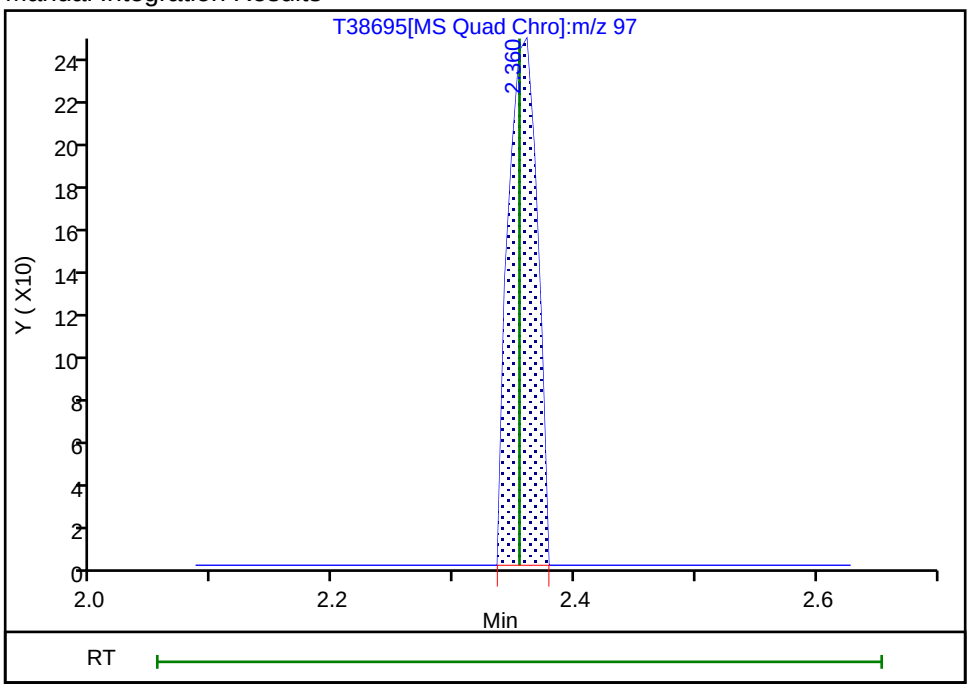
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.36
Area: 408
Amount: 0.448379
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:36
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

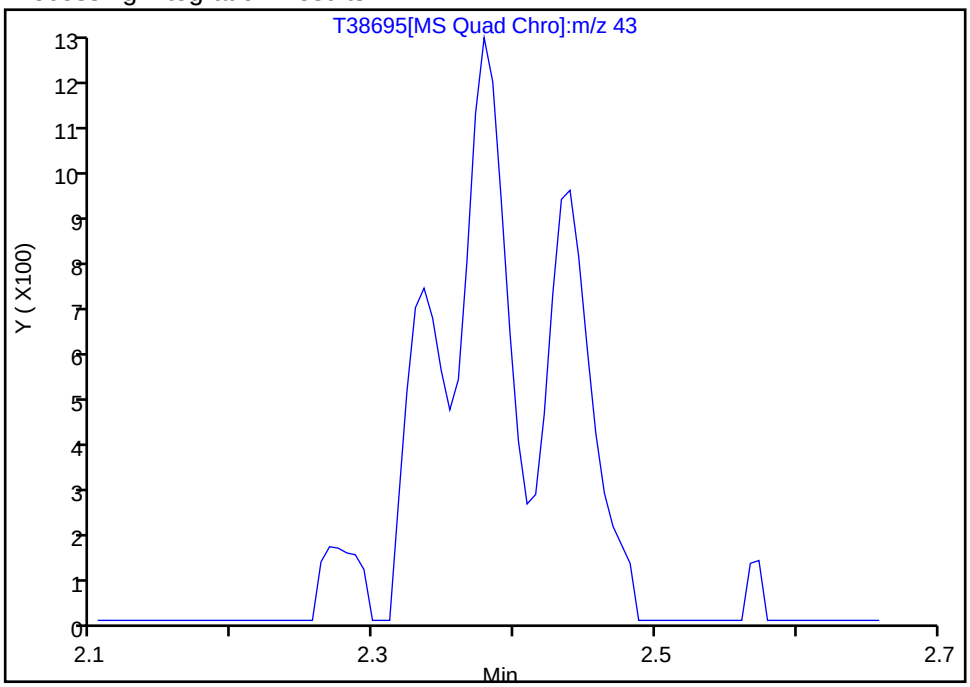
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

45 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

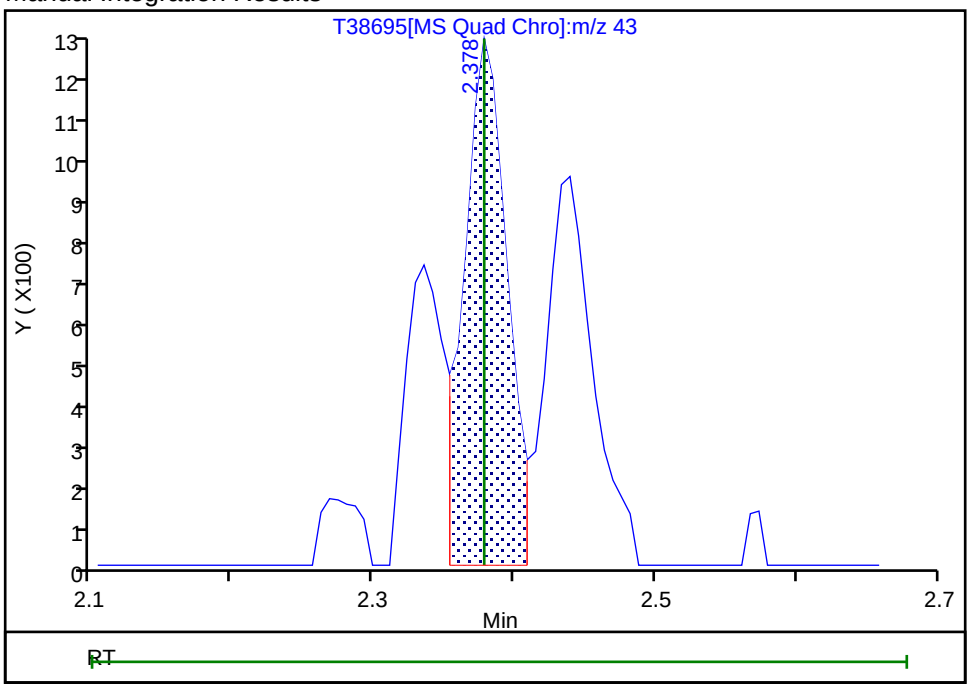
Not Detected
Expected RT: 2.38

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 2649
Amount: 2.964865
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:41
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

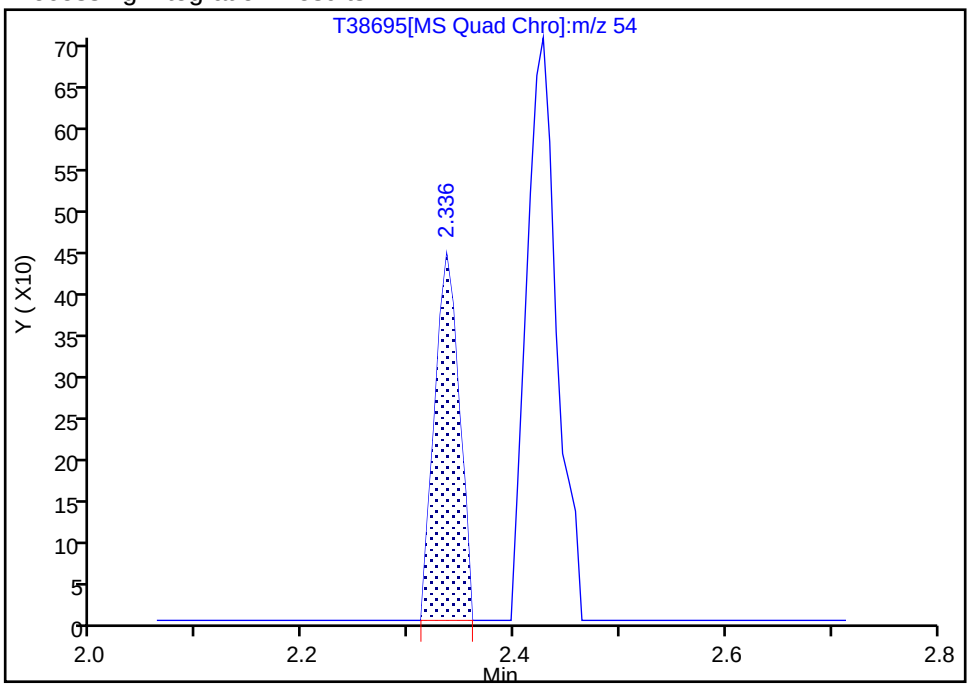
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

46 Propionitrile, CAS: 107-12-0

Signal: 1

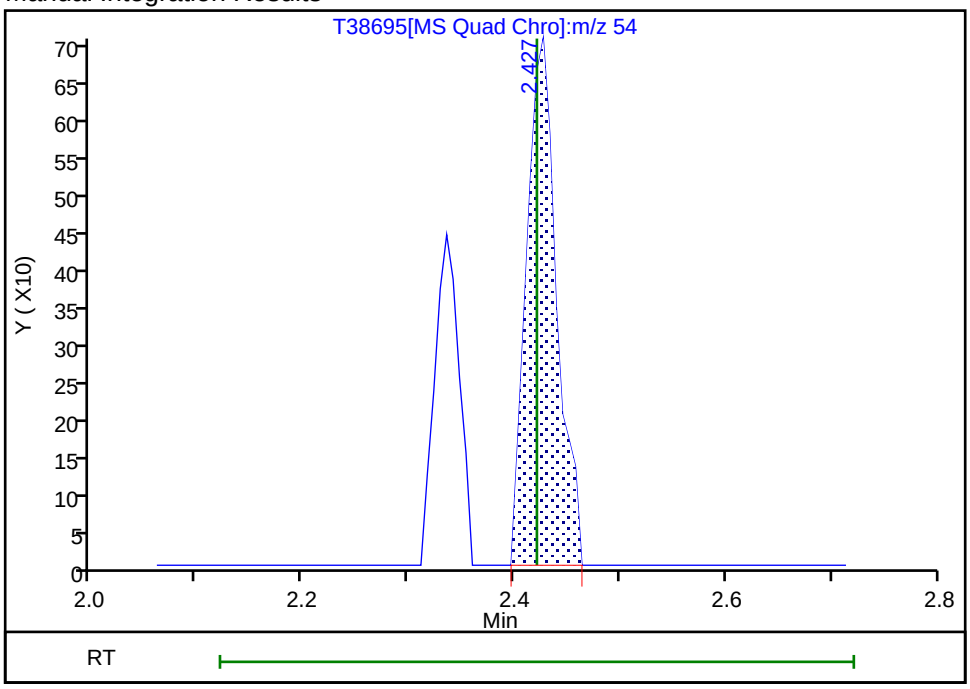
Processing Integration Results

RT: 2.34
Area: 718
Amount: 3.246532
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 1401
Amount: 5.073489
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:45
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

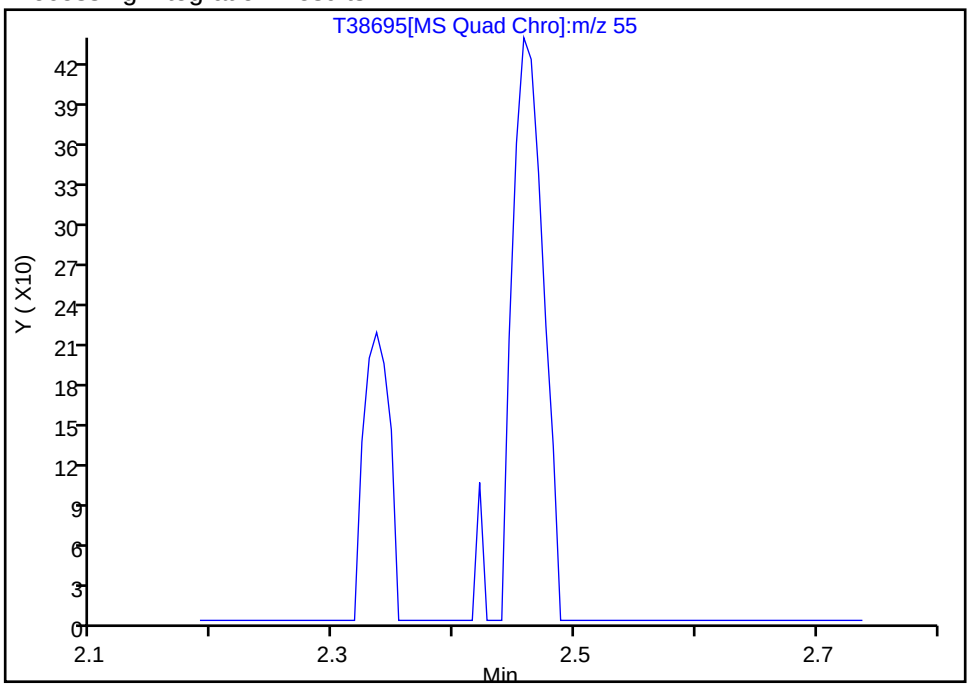
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

48 Methyl acrylate, CAS: 96-33-3

Signal: 1

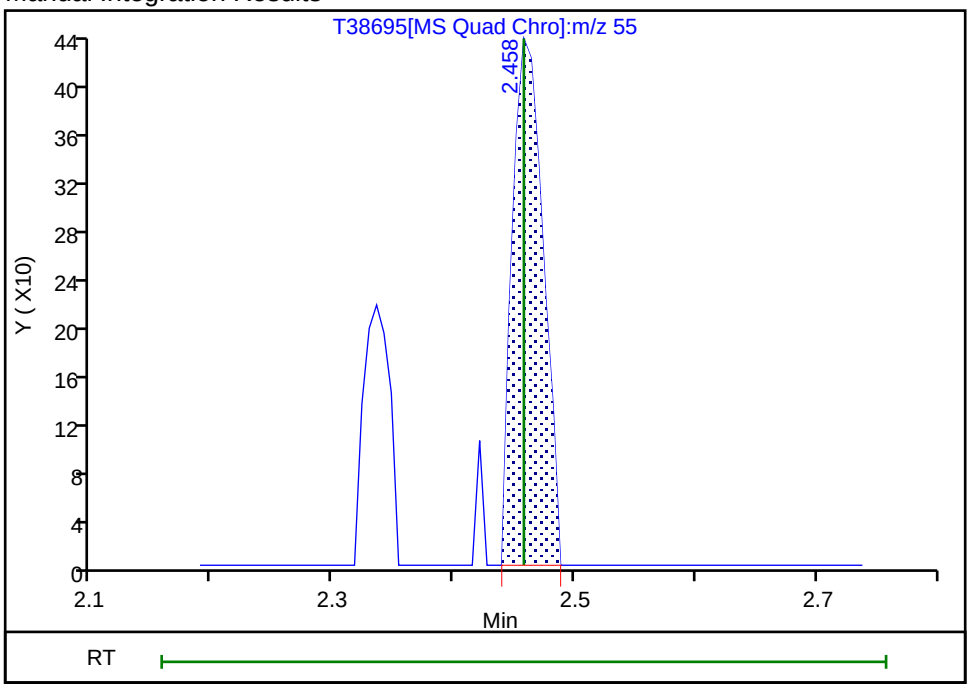
Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.46
Area: 763
Amount: 0.398367
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:54:50
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

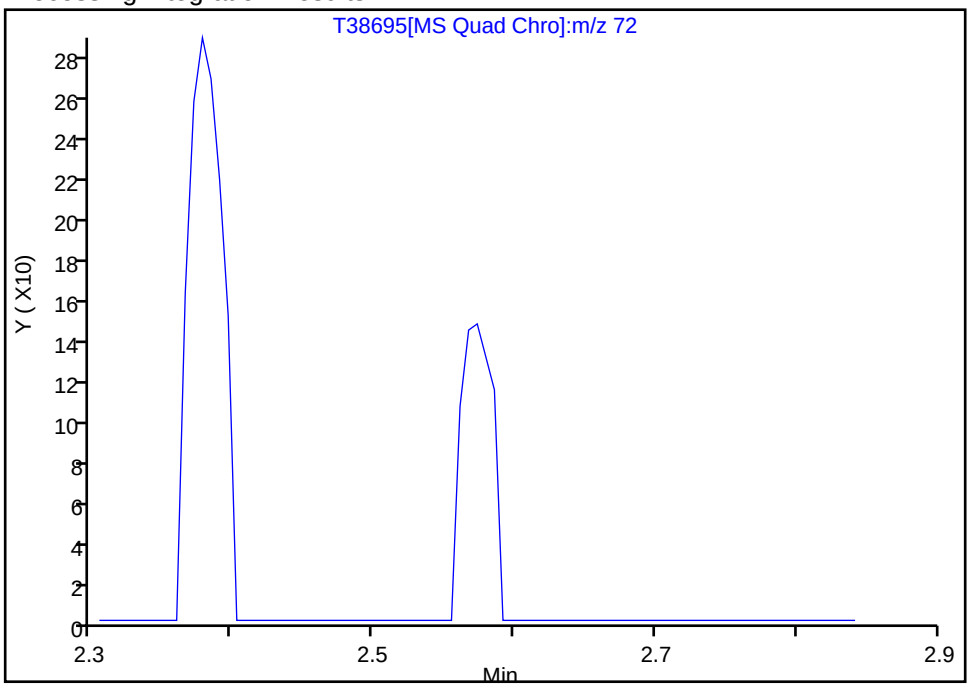
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

51 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

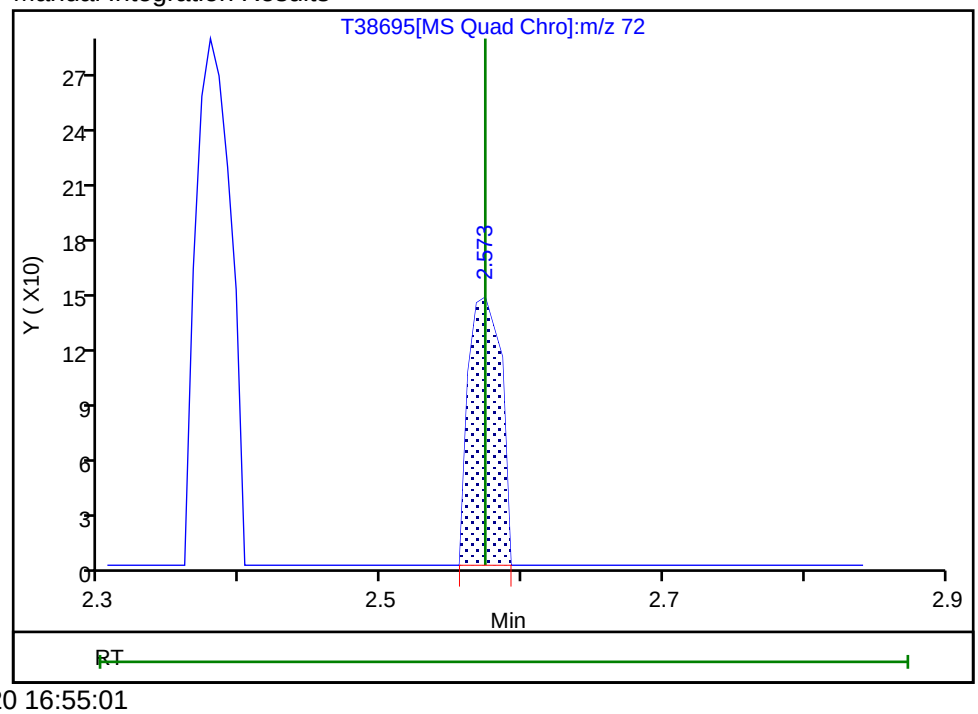
Processing Integration Results

Not Detected
Expected RT: 2.57



Manual Integration Results

RT: 2.57
Area: 230
Amount: 0.799928
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:55:01
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

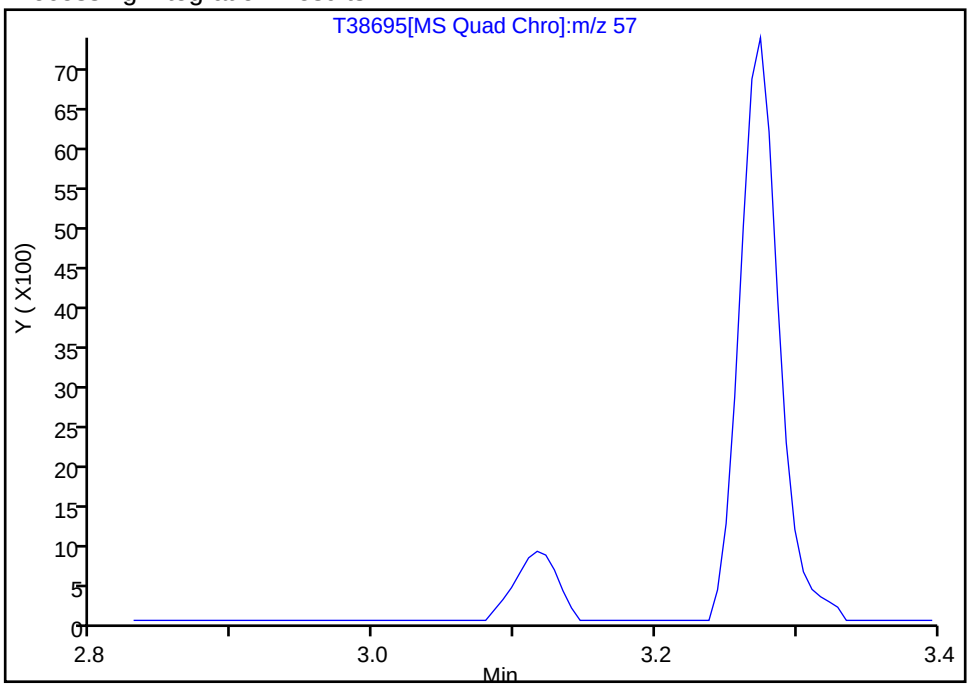
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 Isooctane, CAS: 540-84-1

Signal: 1

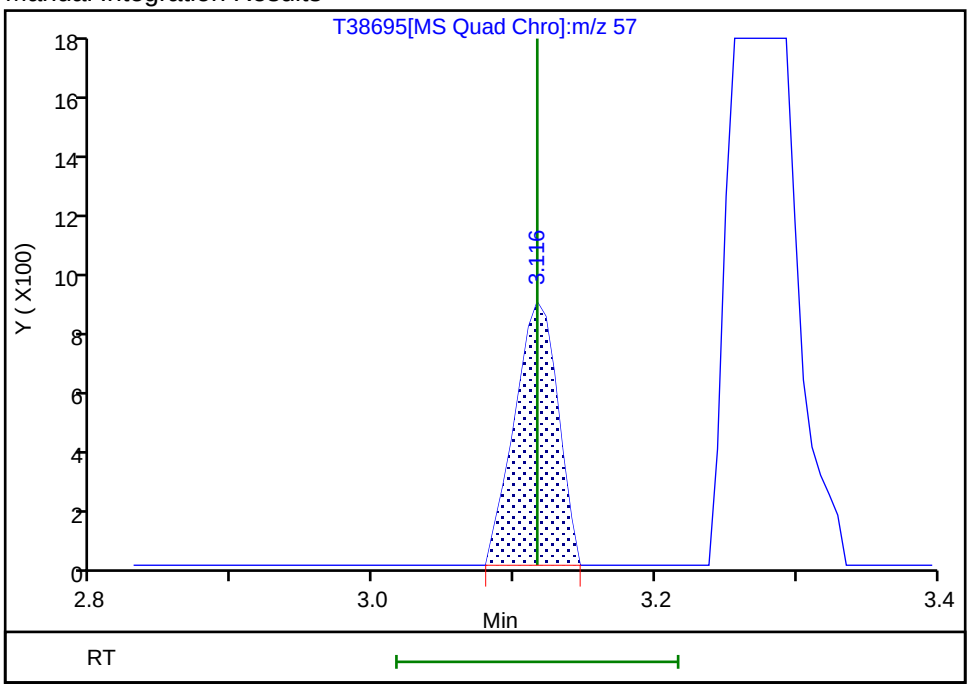
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1862
Amount: 0.401034
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:55:11
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

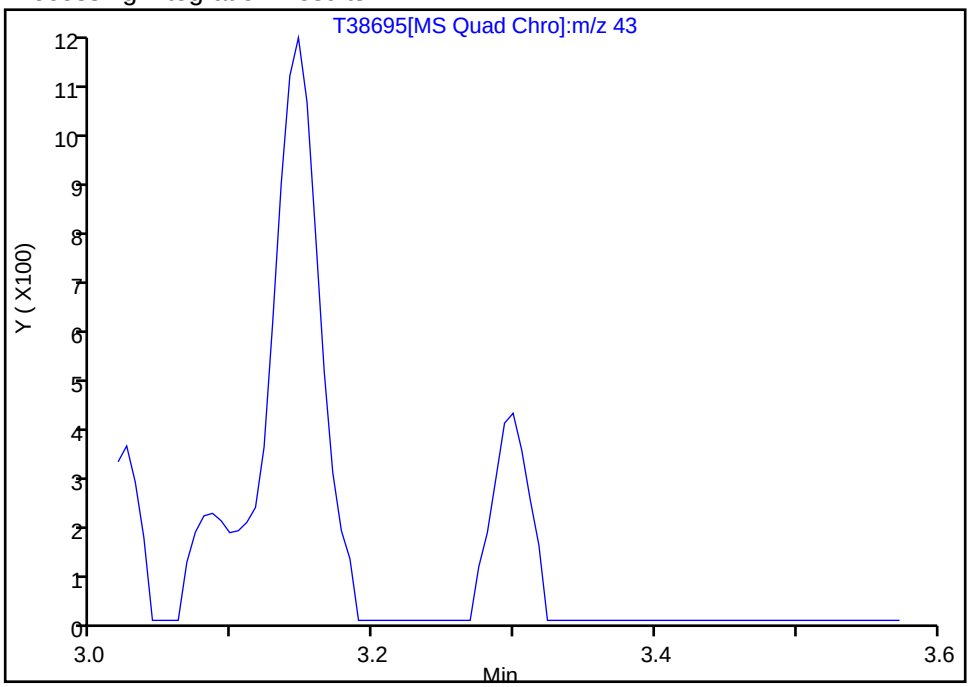
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

66 n-Heptane, CAS: 142-82-5

Signal: 1

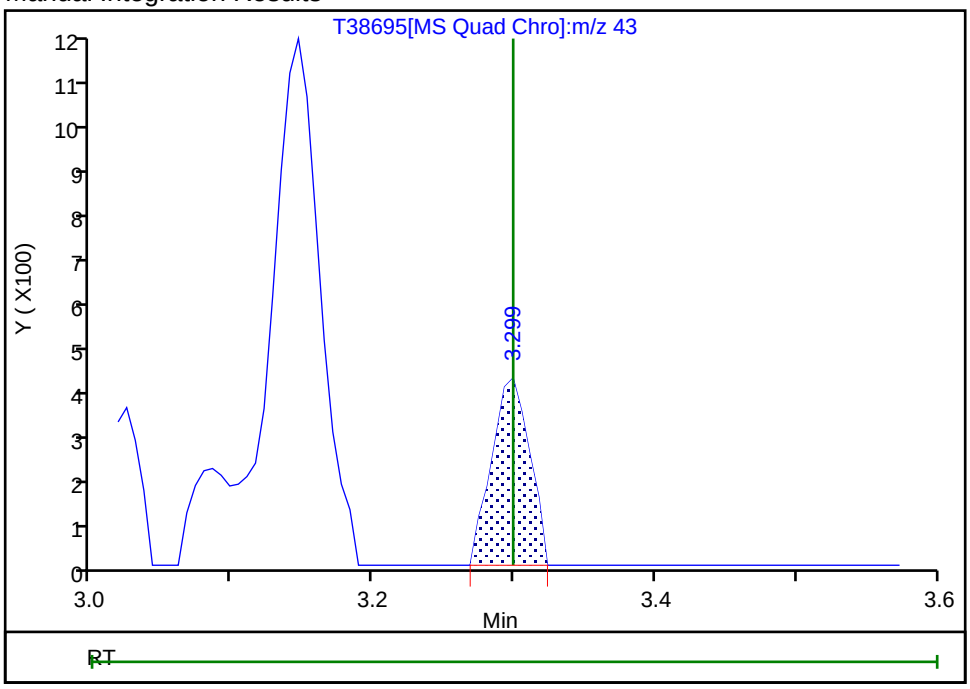
Not Detected
Expected RT: 3.30

Processing Integration Results



Manual Integration Results

RT: 3.30
Area: 778
Amount: 0.407864
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:55:16
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

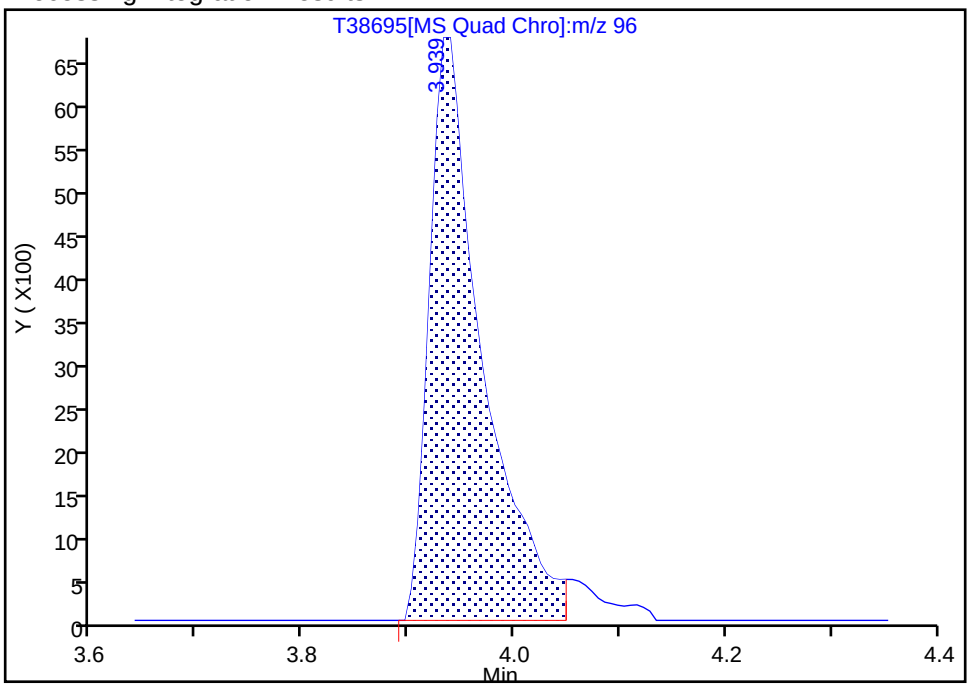
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

* 73 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

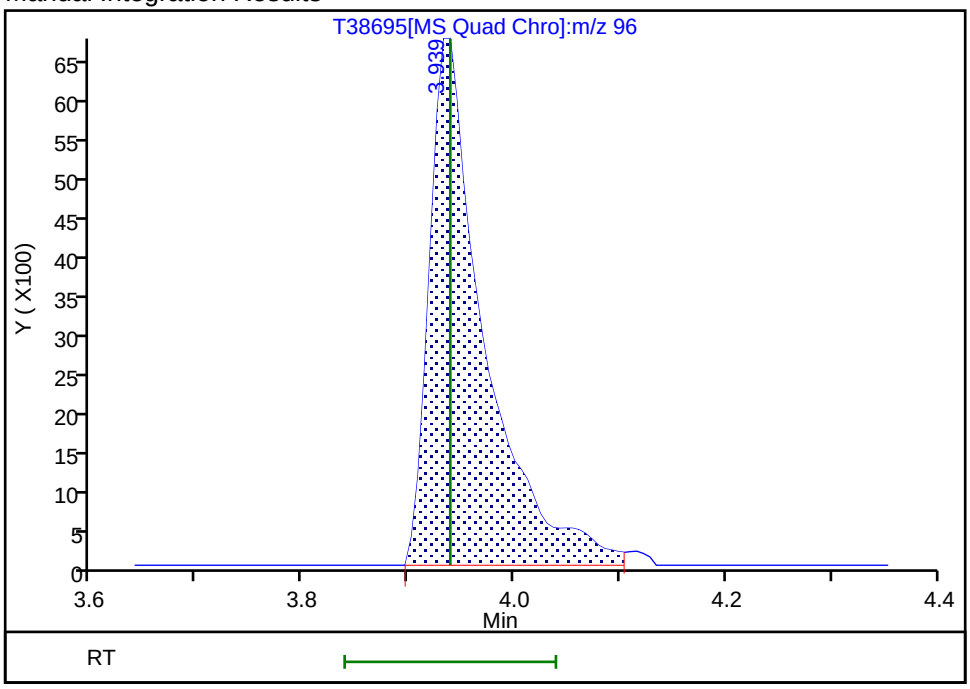
Processing Integration Results

RT: 3.94
Area: 23524
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.94
Area: 24503
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:53:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

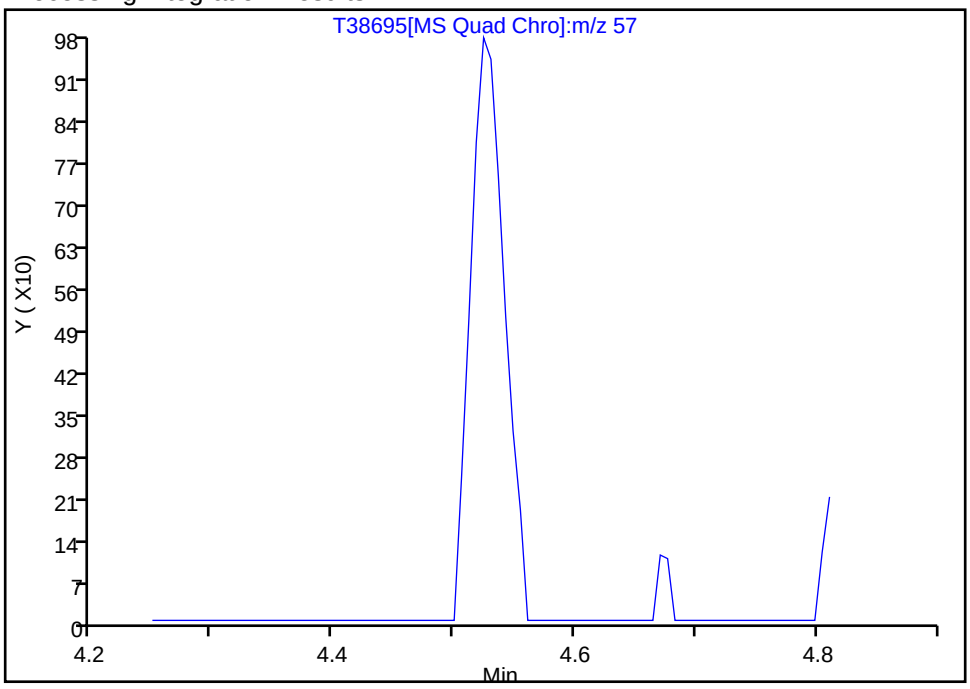
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

80 Epichlorohydrin, CAS: 106-89-8

Signal: 1

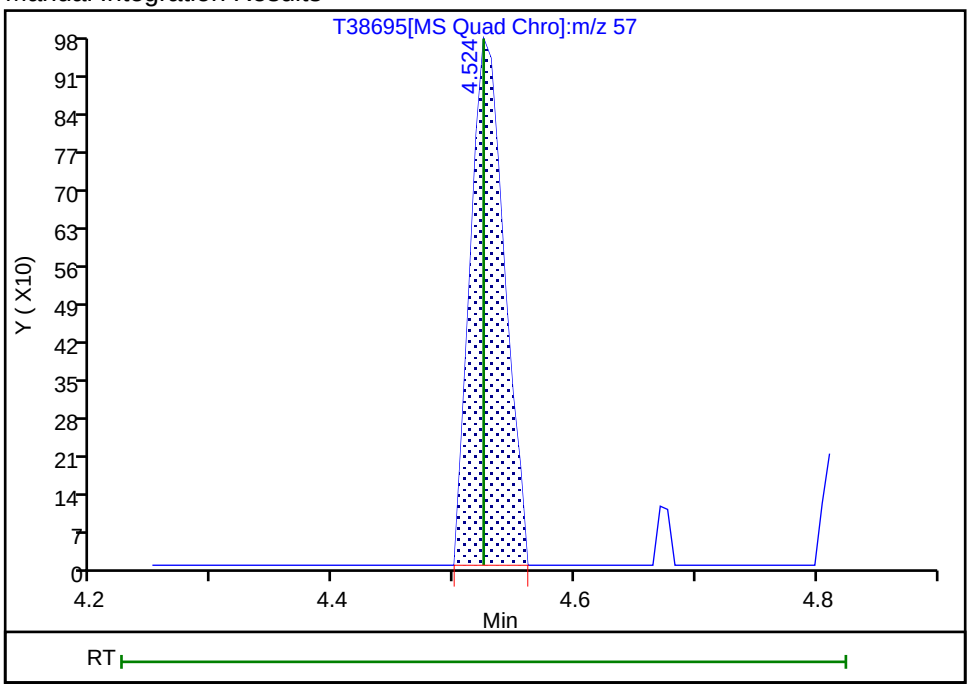
Processing Integration Results

Not Detected
Expected RT: 4.52



Manual Integration Results

RT: 4.52
Area: 1900
Amount: 9.389614
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:53:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison

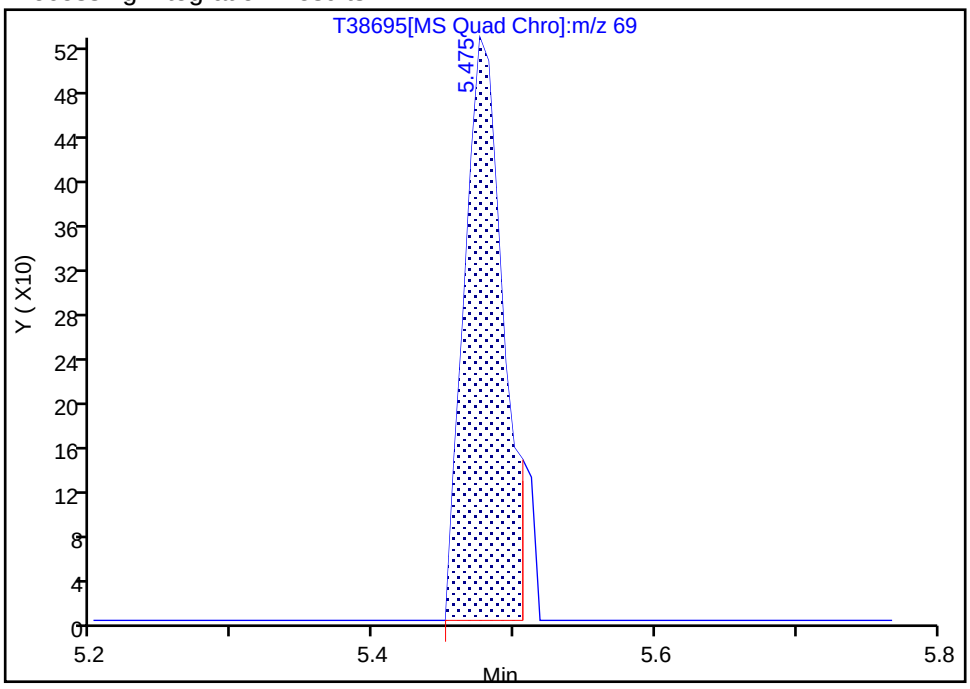
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

86 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

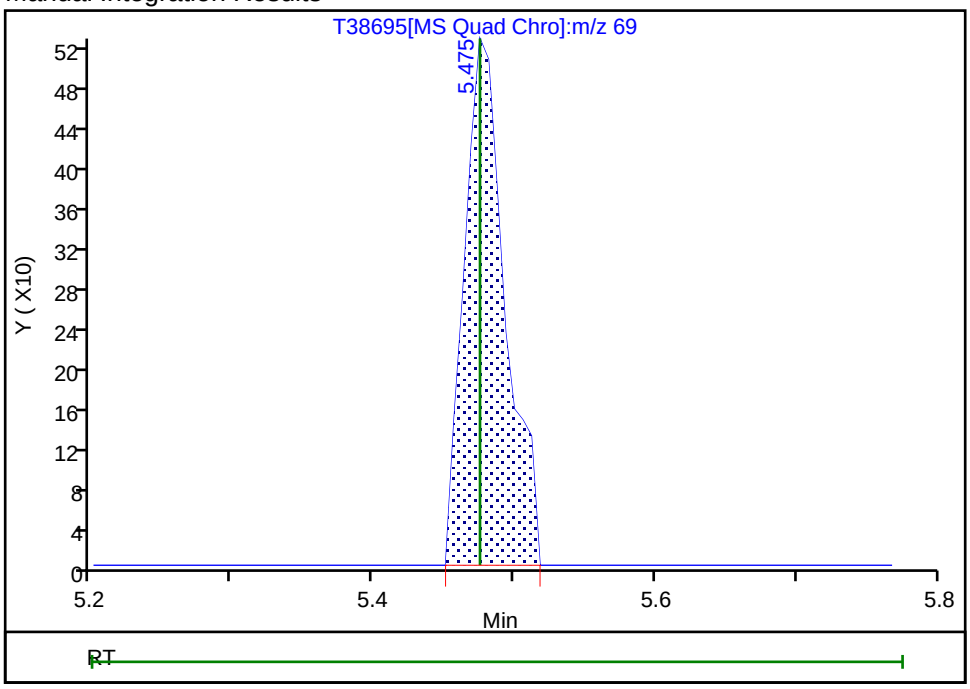
Processing Integration Results

RT: 5.48
Area: 1022
Amount: 0.387176
Amount Units: ug/l



Manual Integration Results

RT: 5.48
Area: 1069
Amount: 0.402931
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:55:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

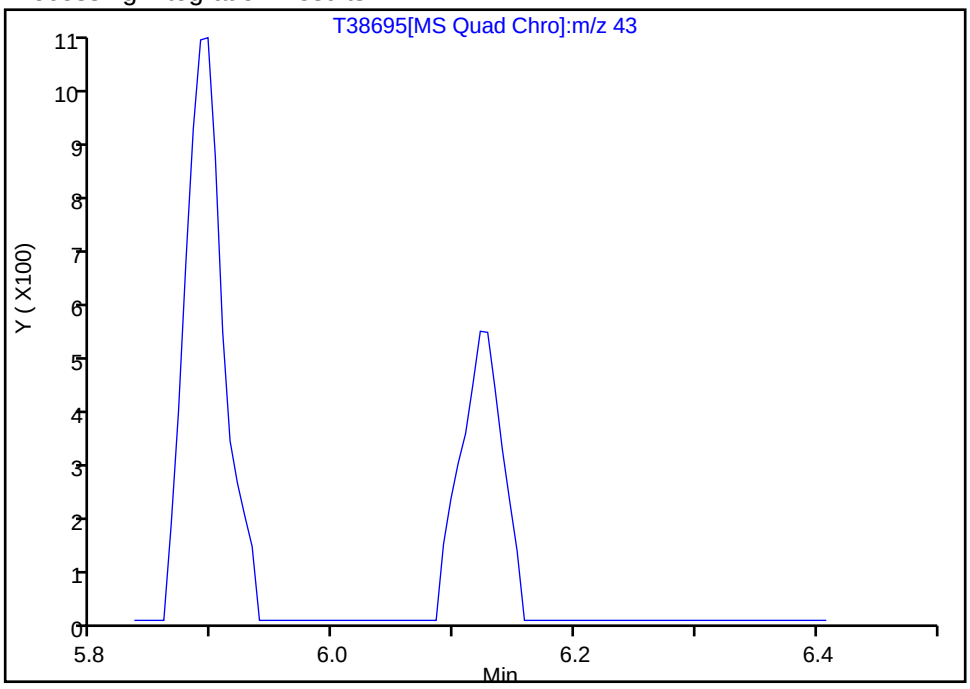
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

93 n-Butyl acetate, CAS: 123-86-4

Signal: 1

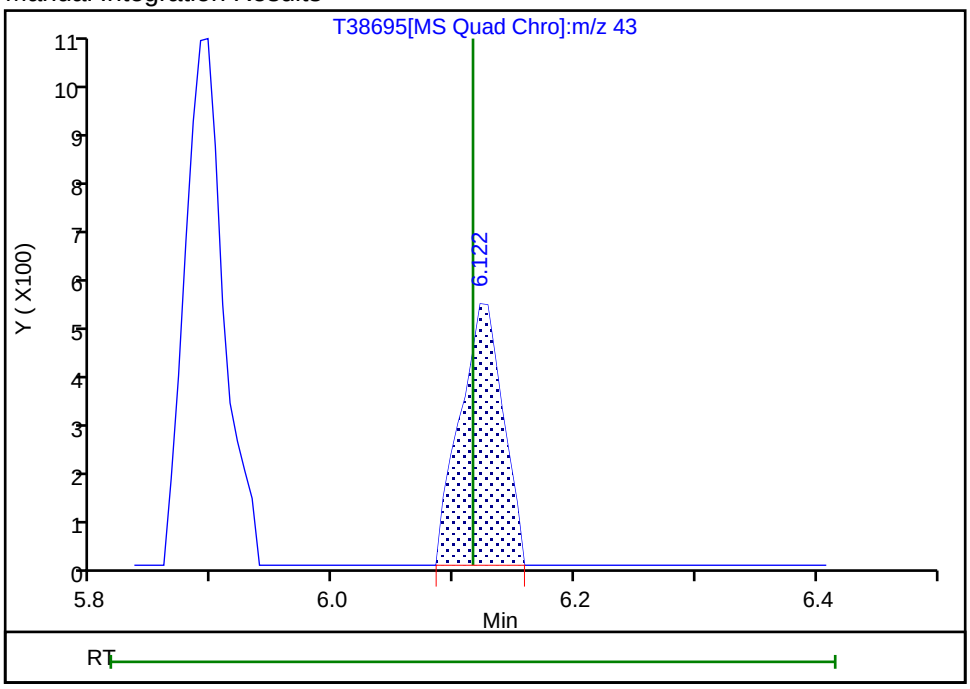
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 1280
Amount: 0.493152
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:55:47
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

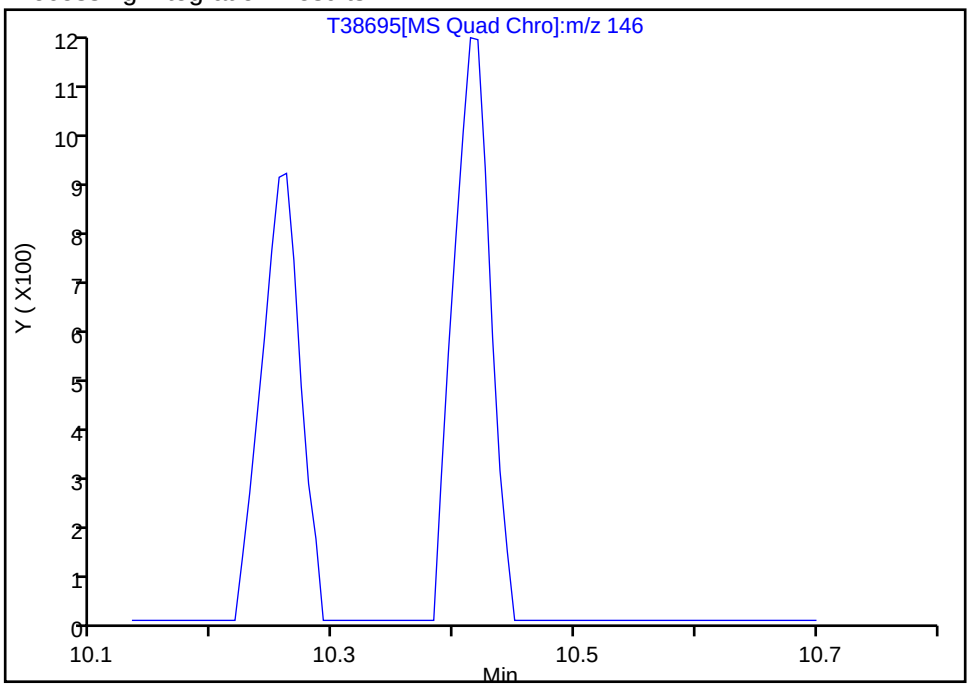
Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D				
Injection Date:	04-Sep-2020 12:37:54	Instrument ID:	CVOAMS15		
Lims ID:	STD05				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

121 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

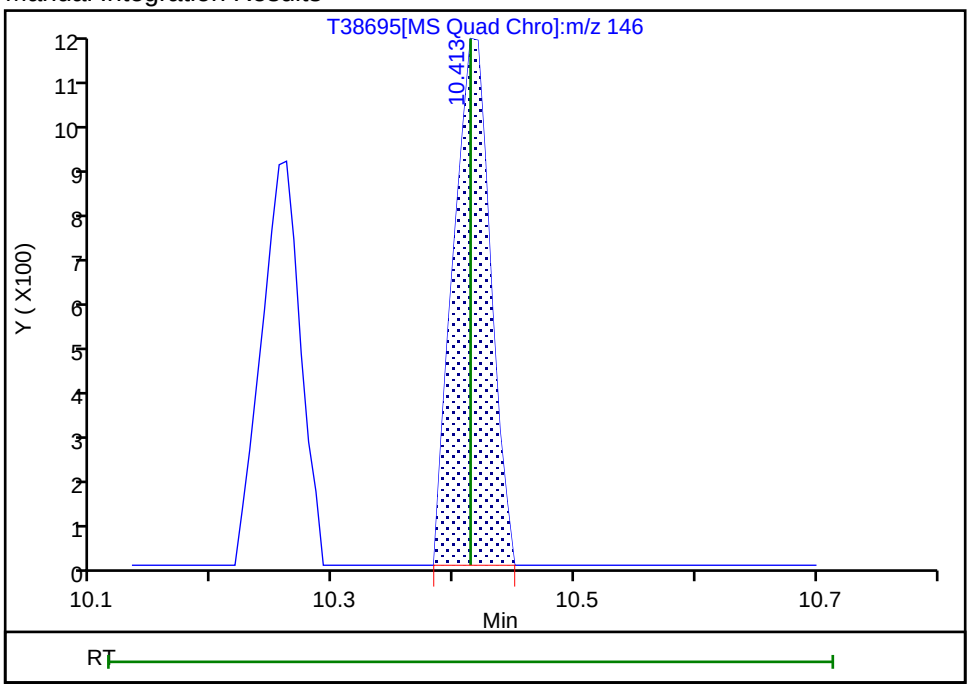
Not Detected
Expected RT: 10.41

Processing Integration Results



Manual Integration Results

RT: 10.41
Area: 2544
Amount: 0.542917
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:56:03
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

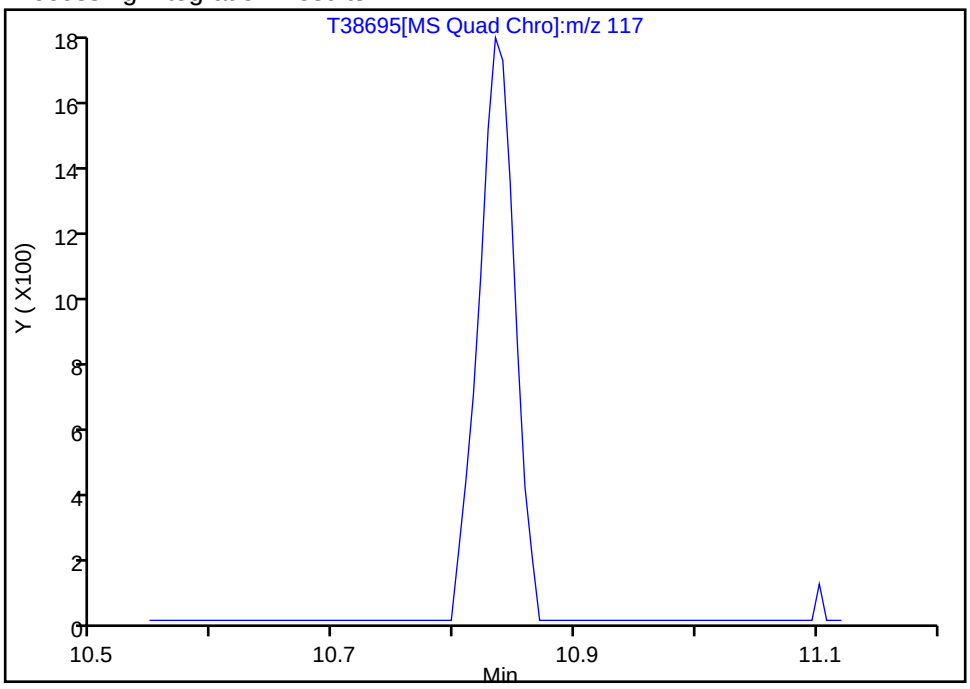
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

125 2,3-Dihydroindene, CAS: 496-11-7

Signal: 1

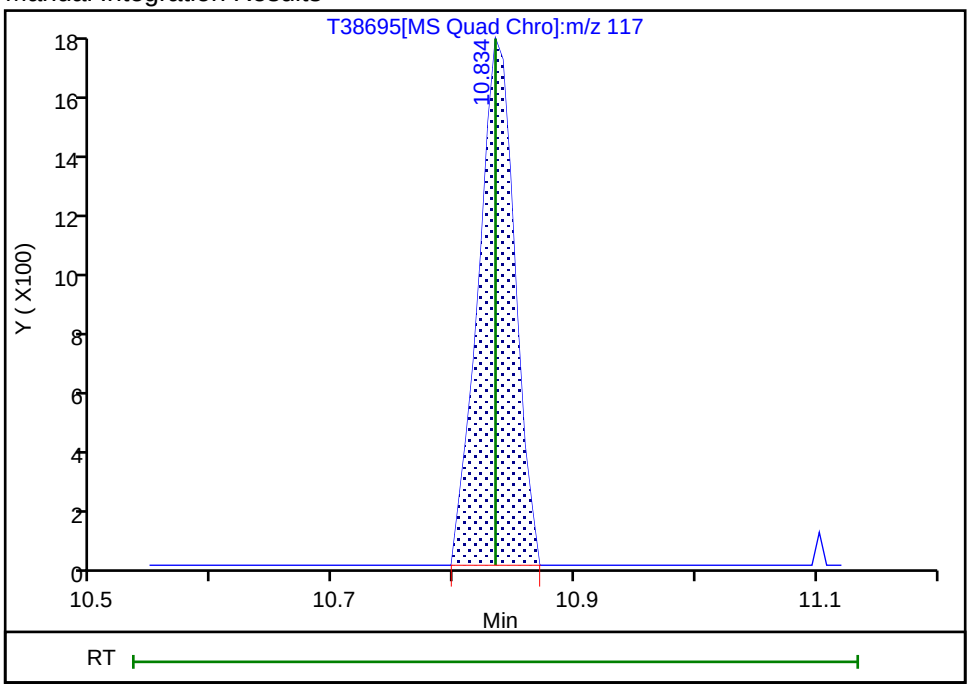
Processing Integration Results

Not Detected
Expected RT: 10.83



Manual Integration Results

RT: 10.83
Area: 3601
Amount: 0.492646
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:56:10
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

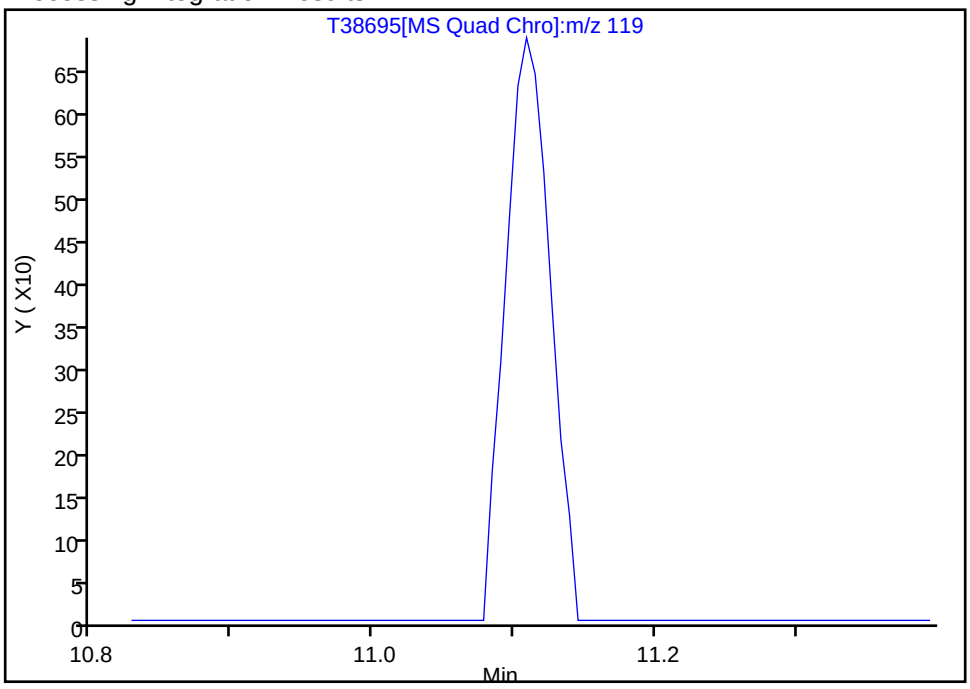
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

127 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

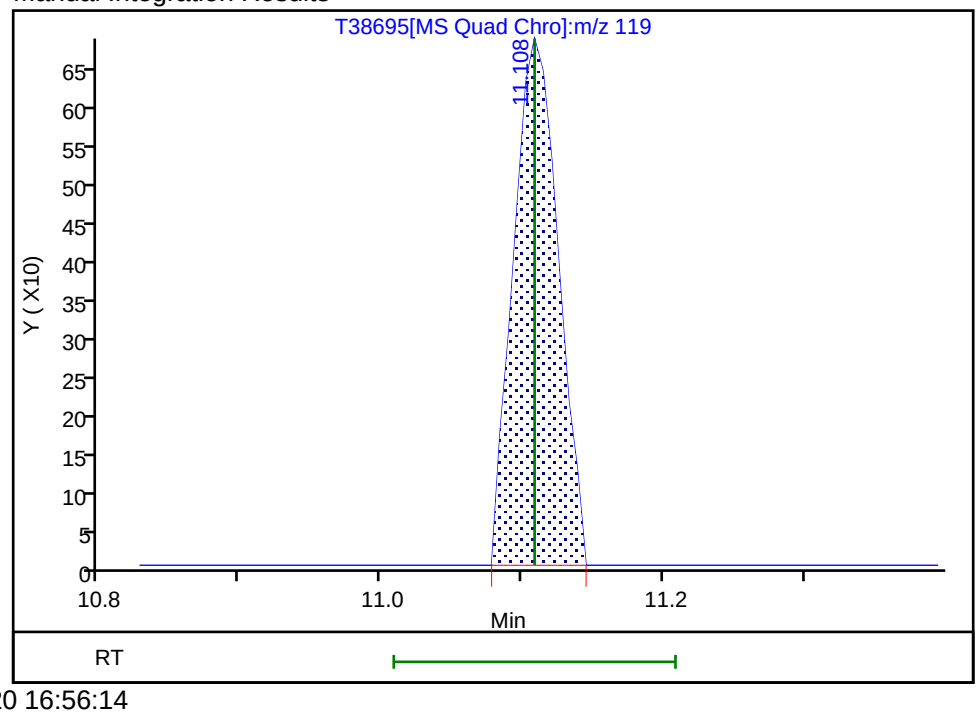
Not Detected
Expected RT: 11.11

Processing Integration Results



Manual Integration Results

RT: 11.11
Area: 1524
Amount: 0.423309
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:56:14
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

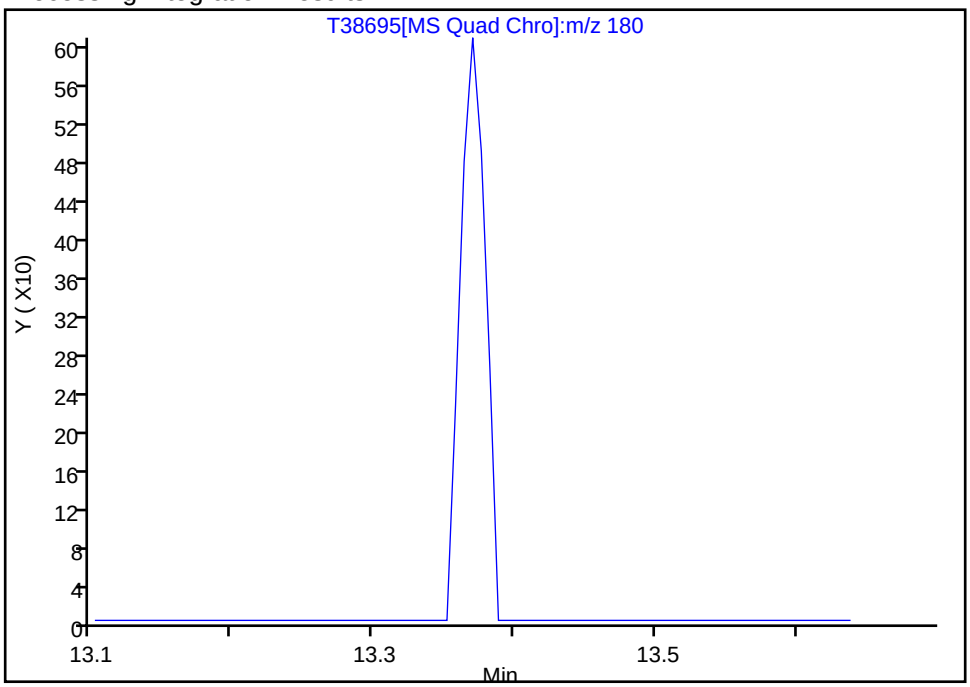
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38695.D
Injection Date: 04-Sep-2020 12:37:54 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

135 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

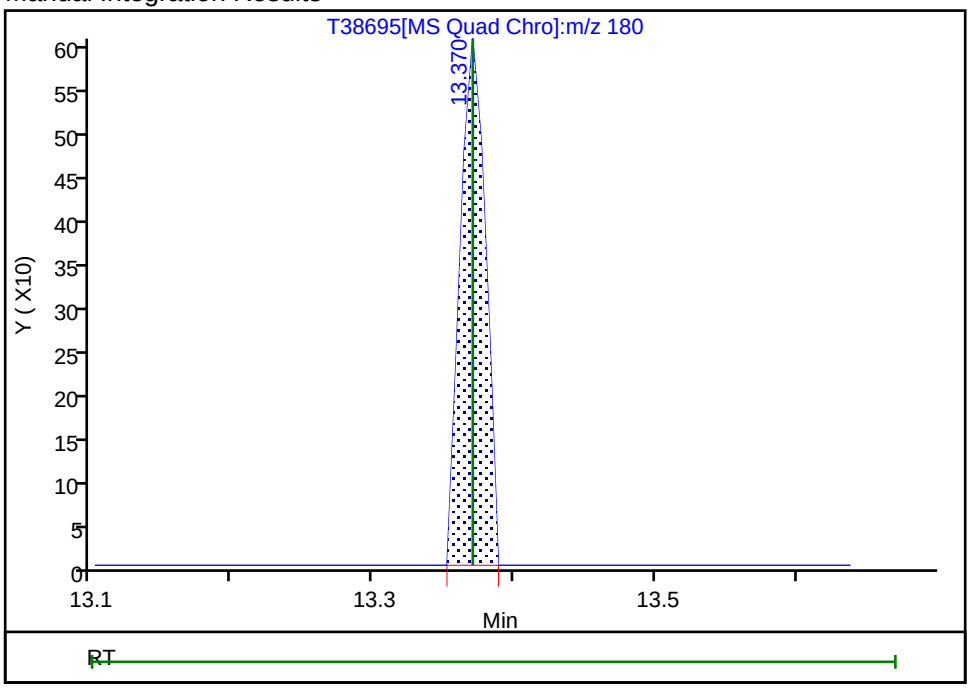
Not Detected
Expected RT: 13.37

Processing Integration Results



Manual Integration Results

RT: 13.37
Area: 747
Amount: 0.498343
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:56:20
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Sep-2020 13:01:51 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0116301-005
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:27:39 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: delpolitov Date: 04-Sep-2020 16:58:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.580	0.586	-0.006	27	534	1.00	1.21	Ma
2 1,1-Difluoroethane	65	0.641	0.635	0.006	86	1103	1.00	0.9625	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	7	902	1.00	1.15	
4 Dichlorodifluoromethane	85	0.653	0.653	0.000	79	3307	1.00	0.9364	
5 Chlorodifluoromethane	67	0.659	0.659	0.000	59	403	1.00	0.8639	
6 Chloromethane	50	0.726	0.726	0.000	73	1863	1.00	0.9593	
7 Vinyl chloride	62	0.769	0.769	0.000	59	2417	1.00	0.9240	
8 Butadiene	54	0.787	0.787	0.000	87	2234	1.00	1.02	
9 Bromomethane	94	0.909	0.909	0.000	70	1321	1.00	1.00	
10 Chloroethane	64	0.958	0.952	0.006	59	1531	1.00	0.9805	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	74	4223	1.00	1.03	
12 Trichlorofluoromethane	101	1.074	1.068	0.006	56	3530	1.00	0.8490	
13 Pentane	72	1.110	1.110	0.000	91	782	2.00	2.14	
14 Ethanol	45	1.165	1.171	-0.006	36	673	40.0	69.9	a
15 Ethyl ether	59	1.208	1.208	0.000	49	1831	1.00	1.11	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	67	1737	1.00	0.9375	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	65	2528	1.00	1.05	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	68	4004	1.00	1.11	
19 Acrolein	56	1.269	1.269	0.000	18	992	4.00	4.29	
20 1,1-Dichloroethene	96	1.318	1.318	0.000	75	2319	1.00	1.00	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	54	2221	1.00	0.8861	
22 Acetone	43	1.348	1.348	0.000	62	3434	5.00	6.11	
23 Iodomethane	142	1.391	1.391	0.000	1	195	1.00	0.1520	a
24 Carbon disulfide	76	1.421	1.421	0.000	97	8426	1.00	1.13	
25 Isopropyl alcohol	45	1.427	1.427	0.000	1	921	10.0	9.24	
26 Acetonitrile	40	1.494	1.494	0.000	83	1043	10.0	8.54	
27 3-Chloro-1-propene	76	1.501	1.501	0.000	82	1485	1.00	0.99	
28 Methyl acetate	43	1.519	1.519	0.000	80	2867	2.00	2.25	
29 Cyclopentene	67	1.543	1.543	0.000	80	5229	1.00	1.00	
30 Methylene Chloride	84	1.568	1.568	0.000	68	2897	1.00	1.13	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	95	33094	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.647	1.647	0.000	10	2426	10.0	11.8	a
33 Acrylonitrile	53	1.708	1.708	0.000	94	6607	10.0	9.76	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	64	2500	1.00	0.9657	
35 Methyl tert-butyl ether	73	1.732	1.732	0.000	92	6647	1.00	1.03	
36 Hexane	57	1.891	1.891	0.000	80	2644	1.00	1.01	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	69	4166	1.00	0.99	
38 Vinyl acetate	86	2.019	2.019	0.000	99	666	2.00	1.53	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	50	2294	1.00	0.9546	
40 Isopropyl ether	45	2.031	2.031	0.000	71	5924	1.00	0.99	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	81	5868	1.00	0.9318	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	56	206313	250.0	250.0	
44 2,2-Dichloropropane	97	2.354	2.354	0.000	44	851	1.00	0.9451	a
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	26	2879	1.00	0.99	a
45 2-Butanone (MEK)	43	2.385	2.378	0.006	78	4478	5.00	5.40	
46 Propionitrile	54	2.421	2.421	0.000	78	2458	10.0	9.77	
47 Ethyl acetate	70	2.439	2.439	0.000	72	361	2.00	1.67	
48 Methyl acrylate	55	2.458	2.458	0.000	63	1672	1.00	0.8822	
49 Chlorobromomethane	128	2.531	2.531	0.000	41	1421	1.00	1.02	
50 Methacrylonitrile	67	2.531	2.531	0.000	85	8273	10.0	9.45	
51 Tetrahydrofuran	72	2.580	2.574	0.006	51	497	2.00	1.86	
52 Chloroform	83	2.598	2.598	0.000	86	5047	1.00	1.09	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	95	142767	50.0	50.5	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	14	4111	1.00	0.9535	
55 Cyclohexane	84	2.769	2.769	0.000	65	3338	1.00	0.9709	
56 Carbon tetrachloride	117	2.860	2.860	0.000	67	3256	1.00	0.8957	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	73	3967	1.00	1.10	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	98	144381	50.0	50.6	
59 Isobutyl alcohol	43	3.025	3.019	0.006	6	1702	25.0	27.7	
60 Benzene	78	3.025	3.025	0.000	92	9508	1.00	0.9581	
61 1,2-Dichloroethane	62	3.049	3.043	0.006	62	3416	1.00	1.06	
62 Isooctane	57	3.116	3.116	0.000	81	4065	1.00	0.8848	
63 Isopropyl acetate	61	3.140	3.147	-0.007	82	621	1.00	0.8674	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	77	5935	1.00	0.9265	
* 65 Fluorobenzene	96	3.275	3.275	0.000	99	484077	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	30	1846	1.00	0.9780	a
67 Trichloroethene	95	3.610	3.610	0.000	72	2852	1.00	1.01	
68 n-Butanol	56	3.640	3.628	0.012	18	753	25.0	18.0	
69 Ethyl acrylate	55	3.781	3.775	0.007	44	5063	1.00	1.05	
70 Methylcyclohexane	83	3.787	3.787	0.000	60	3241	1.00	0.9304	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	44	1900	1.00	0.8490	
72 Dibromomethane	93	3.933	3.933	0.000	25	1615	1.00	1.03	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	14	22541	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	13	956	50.0	45.6	
75 Methyl methacrylate	100	4.006	4.000	0.006	51	1204	2.00	2.08	
76 n-Propyl acetate	43	4.085	4.085	0.000	71	1877	1.00	0.7938	
77 Dichlorobromomethane	83	4.116	4.116	0.000	58	3356	1.00	0.9746	
78 2-Nitropropane	41	4.372	4.366	0.006	76	850	2.00	1.88	
79 2-Chloroethyl vinyl ether	63	4.494	4.488	0.006	1	495	1.00	1.03	a
80 Epichlorohydrin	57	4.524	4.524	0.000	36	3734	20.0	19.9	
81 cis-1,3-Dichloropropene	75	4.616	4.610	0.006	58	4361	1.00	1.06	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	80	7278	5.00	4.71	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	468513	50.0	50.0	
84 Toluene	91	4.982	4.982	0.000	82	10965	1.00	1.01	
85 trans-1,3-Dichloropropene	75	5.293	5.286	0.006	57	3274	1.00	0.8883	
86 Ethyl methacrylate	69	5.475	5.475	0.000	31	2655	1.00	1.01	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	55	1785	1.00	0.9654	
88 Tetrachloroethene	166	5.640	5.640	0.000	74	2905	1.00	0.99	
89 1,3-Dichloropropane	76	5.701	5.695	0.006	49	3299	1.00	0.9263	
90 2-Hexanone	43	5.890	5.884	0.006	81	5020	5.00	4.77	
91 Chlorodibromomethane	129	5.975	5.975	0.000	48	2428	1.00	0.8905	
92 Ethylene Dibromide	107	6.085	6.085	0.000	42	2533	1.00	1.05	
93 n-Butyl acetate	43	6.122	6.116	0.006	74	2338	1.00	0.9103	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	85	367283	50.0	50.0	
95 Chlorobenzene	112	6.780	6.786	-0.006	39	6579	1.00	0.9496	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	59	2668	1.00	1.02	
97 Ethylbenzene	106	6.993	6.993	0.000	74	3844	1.00	1.06	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	4959	1.00	1.10	
99 o-Xylene	106	7.743	7.743	0.000	76	4430	1.00	1.05	
100 Styrene	104	7.774	7.774	0.000	73	6247	1.00	0.9291	
101 n-Butyl acrylate	73	7.865	7.865	0.000	63	1082	1.00	0.7531	
102 Bromoform	173	7.987	7.987	0.000	49	1597	1.00	0.8911	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	66	2397	1.00	0.8688	
104 Isopropylbenzene	105	8.341	8.341	0.000	54	10400	1.00	0.99	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	90	151227	50.0	50.0	
106 Bromobenzene	156	8.700	8.700	0.000	77	2808	1.00	1.02	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	30	2432	1.00	0.9527	
108 1,2,3-Trichloropropane	110	8.871	8.865	0.006	42	596	1.00	0.7725	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	1	522	1.00	0.99	M
110 N-Propylbenzene	91	8.993	8.993	0.000	90	12144	1.00	1.01	
111 2-Chlorotoluene	91	9.054	9.048	0.006	51	7382	1.00	1.06	
112 4-Ethyltoluene	105	9.194	9.194	0.000	62	9389	1.00	1.00	
113 4-Chlorotoluene	91	9.243	9.237	0.006	51	7672	1.00	1.02	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	66	7673	1.00	1.01	
115 Butyl Methacrylate	87	9.621	9.621	0.000	51	2355	1.00	0.9117	
116 tert-Butylbenzene	119	9.810	9.810	0.000	57	6625	1.00	1.01	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	66	7164	1.00	0.9553	
118 sec-Butylbenzene	105	10.176	10.176	0.000	64	8911	1.00	0.99	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	61	4765	1.00	1.05	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	168990	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.414	10.414	0.000	29	4771	1.00	1.02	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	45	7906	1.00	1.05	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	66	7124	1.00	0.9728	
124 Benzyl chloride	91	10.688	10.682	0.006	50	4384	1.00	0.9569	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	73	6670	1.00	0.9184	
126 1,2-Dichlorobenzene	146	11.005	10.999	0.006	50	3919	1.00	0.9586	
127 p-Diethylbenzene	119	11.109	11.109	-0.001	62	3482	1.00	0.9734	
128 n-Butylbenzene	92	11.133	11.139	-0.006	68	3395	1.00	0.9699	
129 1,2-Dibromo-3-Chloropropane	157	12.096	12.090	0.006	1	395	1.00	1.06	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	35	5224	1.00	0.9316	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	43	2410	1.00	1.04	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	33	1677	1.00	0.8693	
133 Hexachlorobutadiene	225	13.145	13.151	-0.006	1	1014	1.00	0.9014	
134 Naphthalene	128	13.151	13.151	0.000	77	4542	1.00	0.9175	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.376	13.370	0.006	21	1122	1.00	0.7533	
S 136 1,2-Dichloroethene, Total	100				0		2.00	1.96	
S 137 Xylenes, Total	100				0		2.00	2.15	
S 140 Total BTEX	1				0		5.00	5.18	
S 139 1,3-Dichloropropene, Total	1				0		2.00	1.95	
S 138 Total 1,2-dichloroethene	1				0			1.96	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	10.00	Units: uL	
GASES Li_00384	Amount Added:	10.00	Units: uL	
524freon_00027	Amount Added:	10.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
14DIOXINTER_00118	Amount Added:	30.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:27:40 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D

Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15

Lims ID: STD1

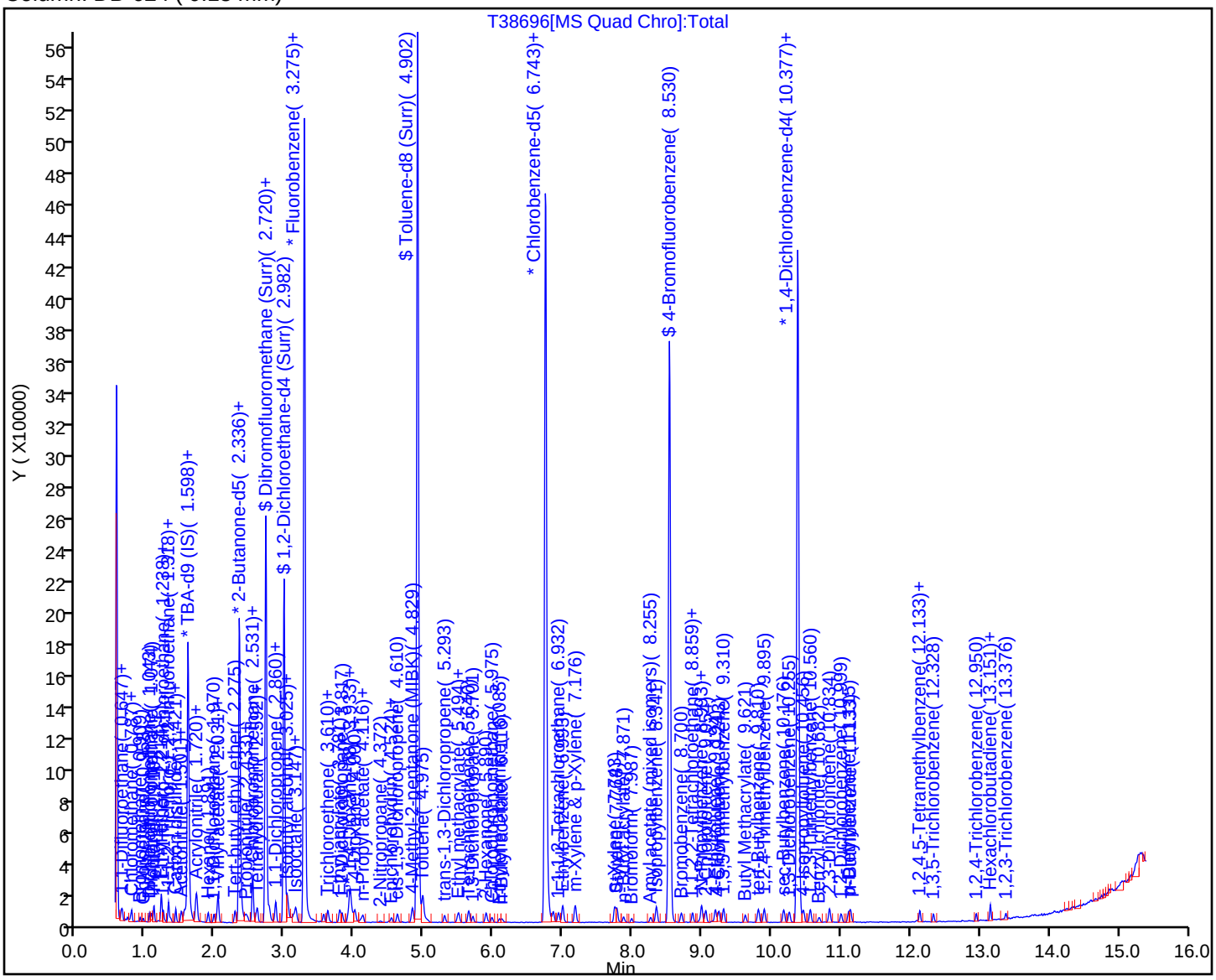
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

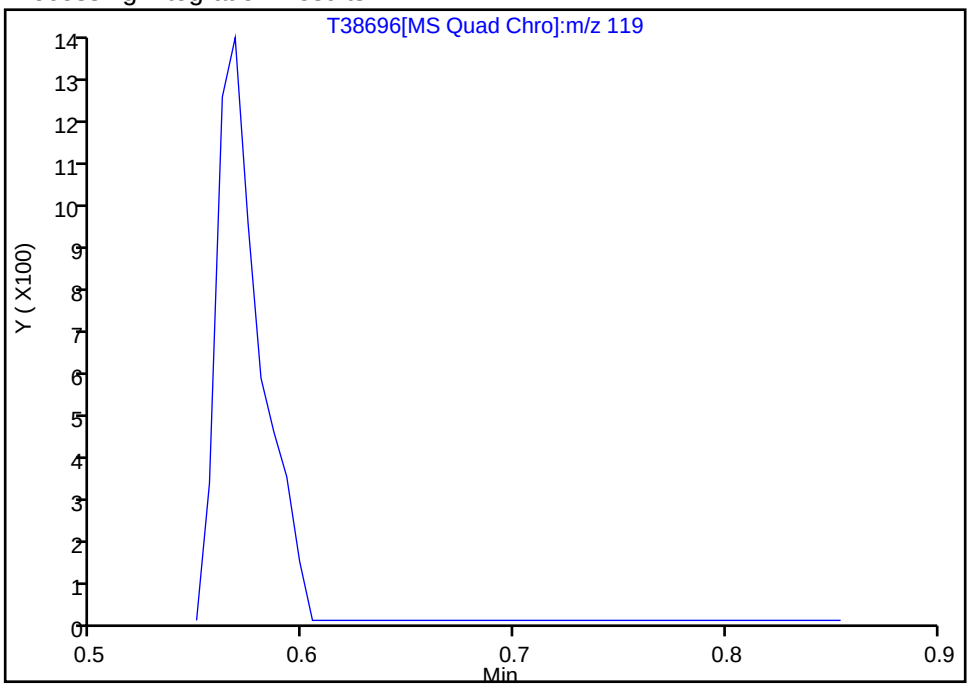
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

1 Monochloropentafluoroethane, CAS: 76-15-3

Signal: 1

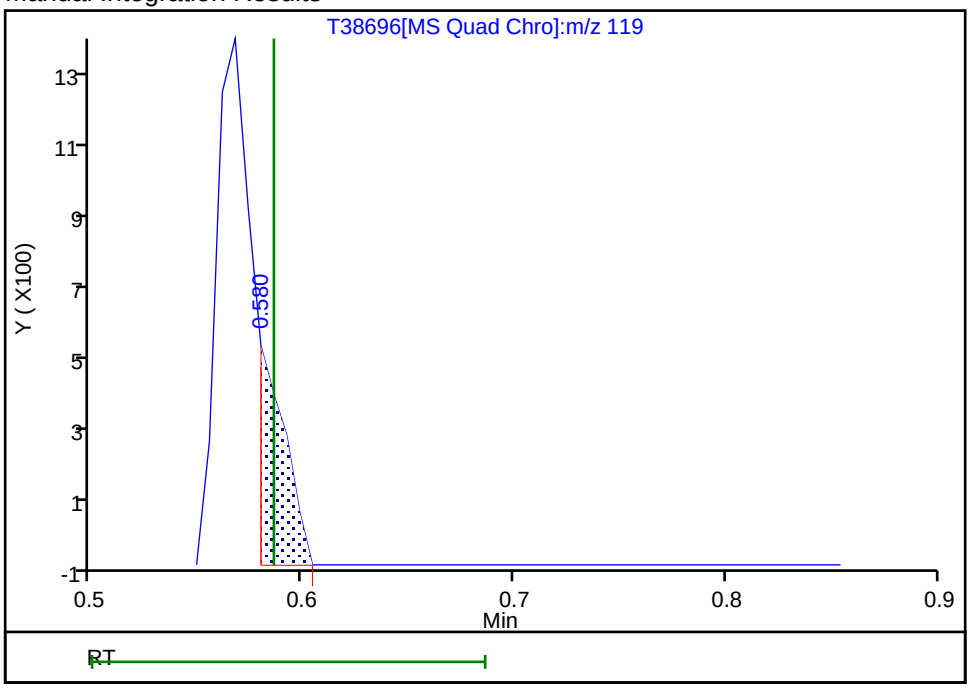
Not Detected
Expected RT: 0.59

Processing Integration Results



Manual Integration Results

RT: 0.58
Area: 534
Amount: 1.211844
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

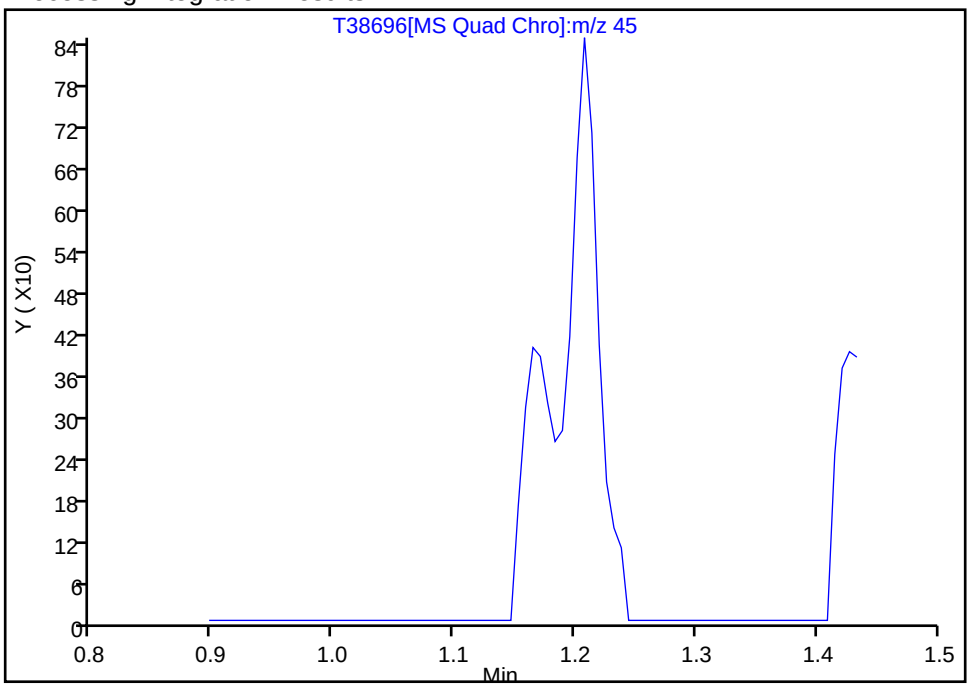
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

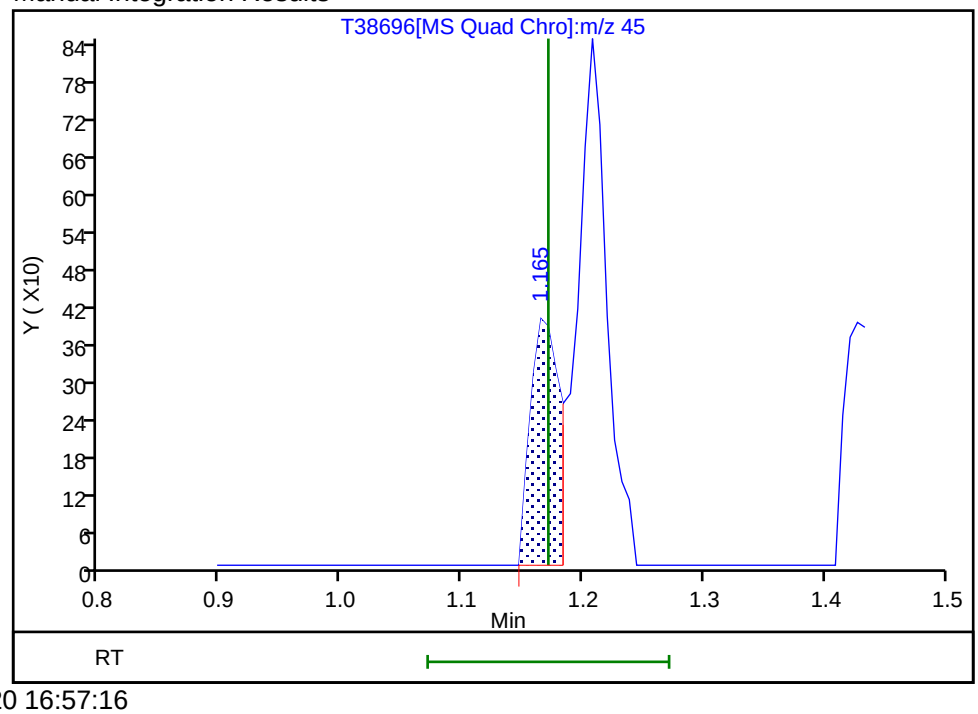
Not Detected
Expected RT: 1.17

Processing Integration Results



Manual Integration Results

RT: 1.17
Area: 673
Amount: 69.875099
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:16
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

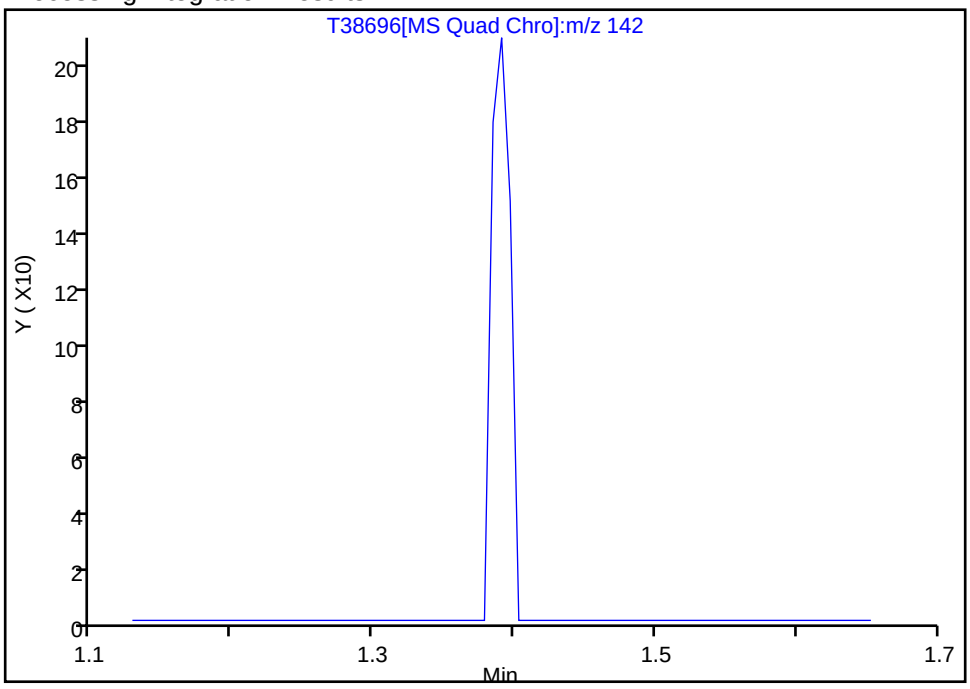
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

23 Iodomethane, CAS: 74-88-4

Signal: 1

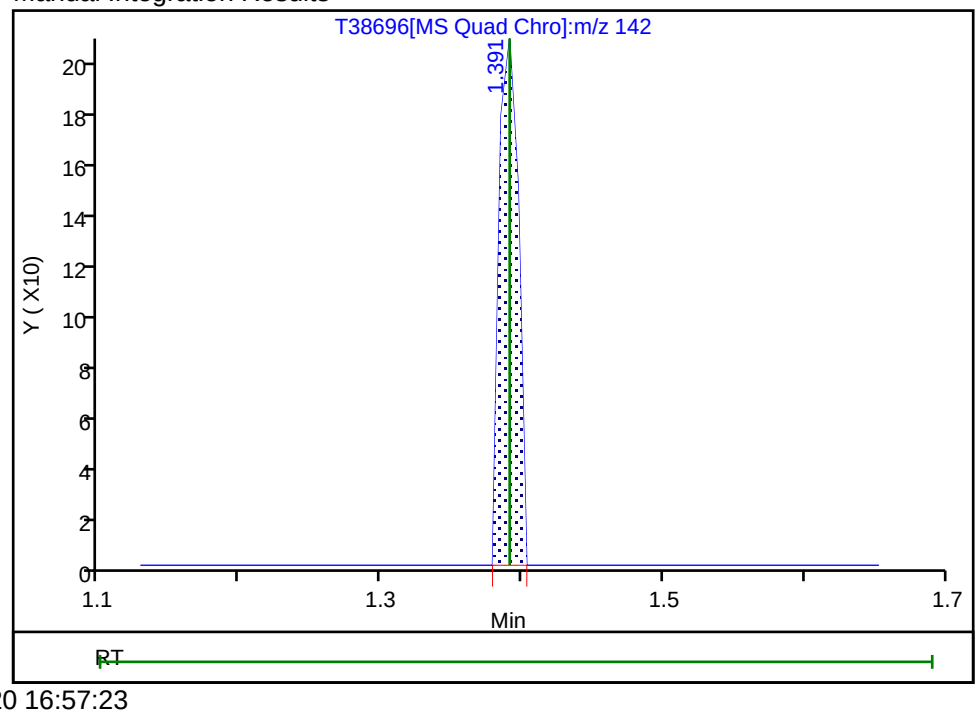
Not Detected
Expected RT: 1.39

Processing Integration Results



Manual Integration Results

RT: 1.39
Area: 195
Amount: 0.152032
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:23
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

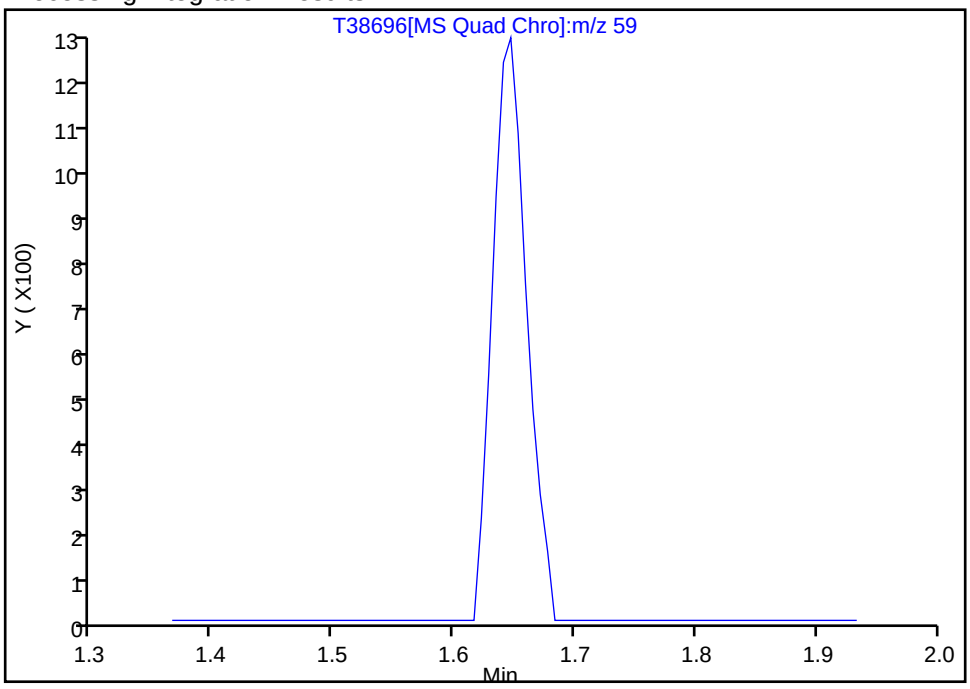
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

32 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

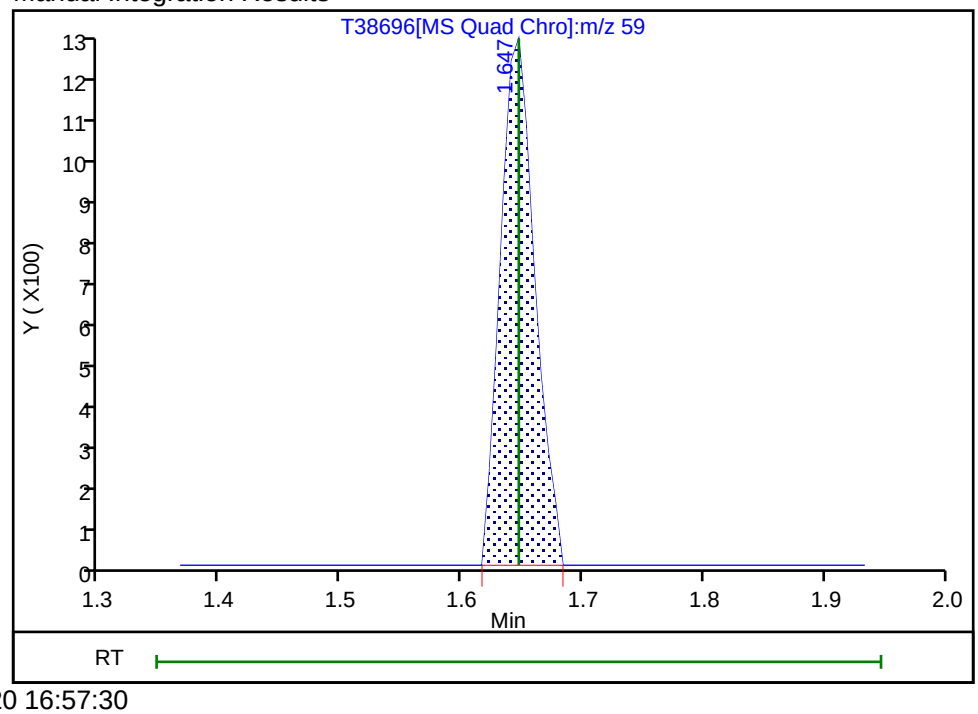
Not Detected
Expected RT: 1.65

Processing Integration Results



Manual Integration Results

RT: 1.65
Area: 2426
Amount: 11.836470
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:30
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

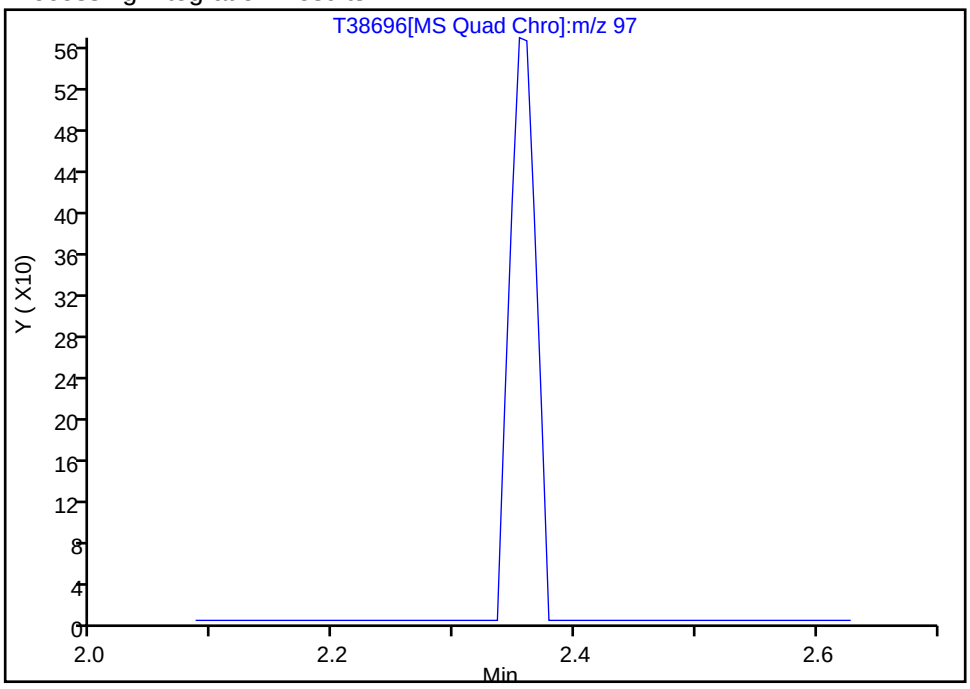
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

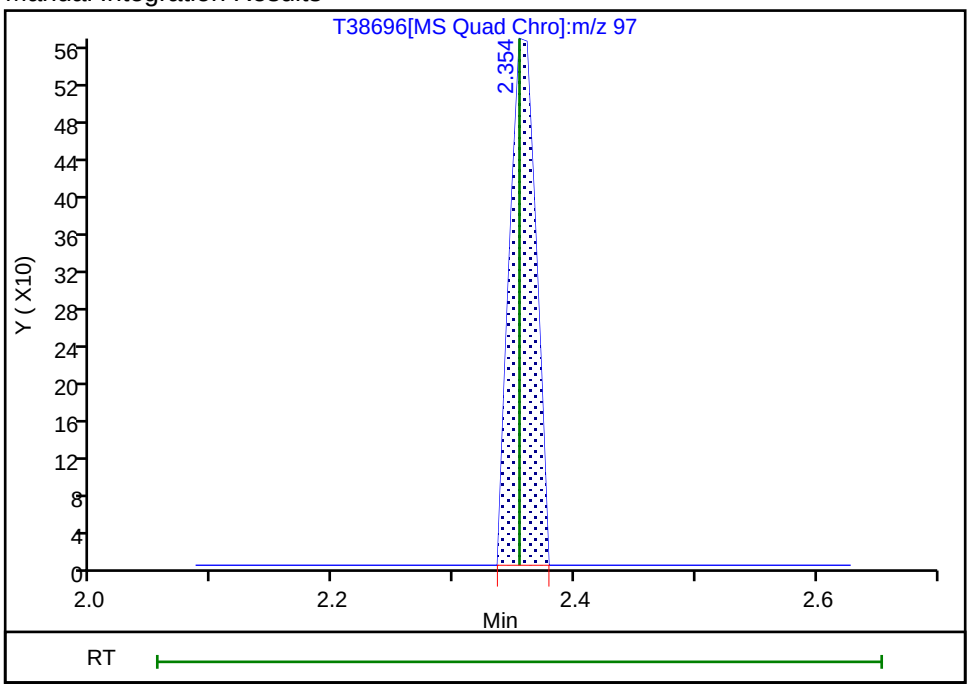
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.35
Area: 851
Amount: 0.945131
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

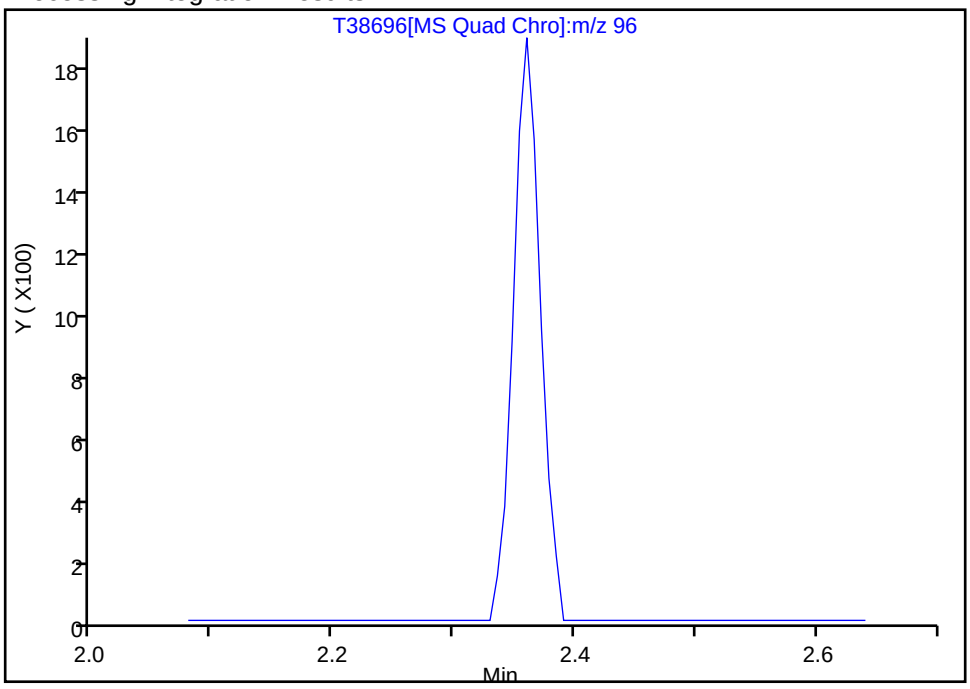
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

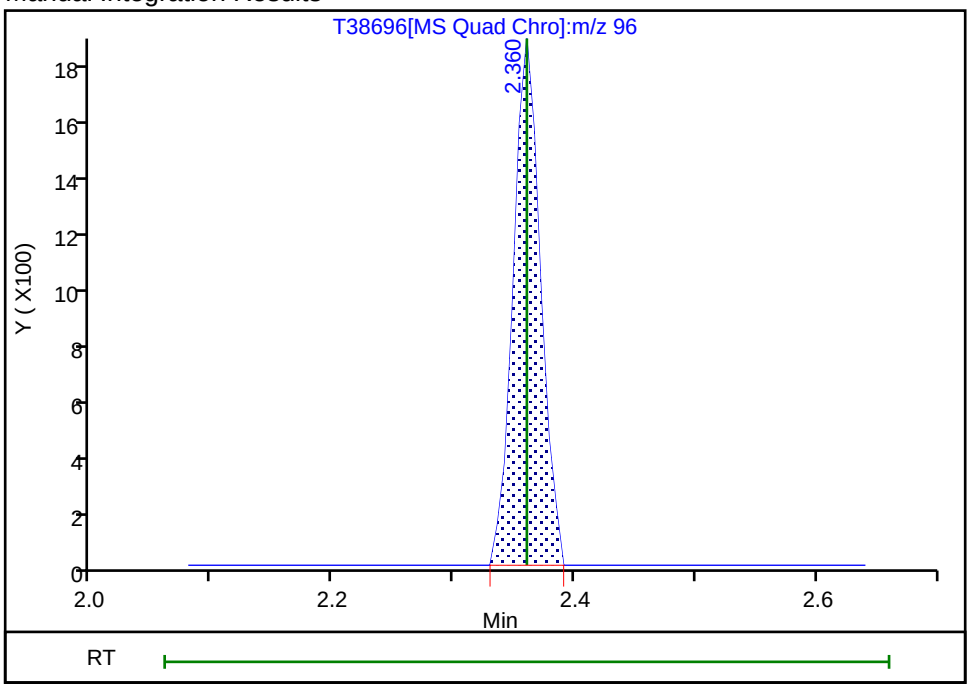
Not Detected
Expected RT: 2.36

Processing Integration Results



Manual Integration Results

RT: 2.36
Area: 2879
Amount: 0.992101
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:40
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

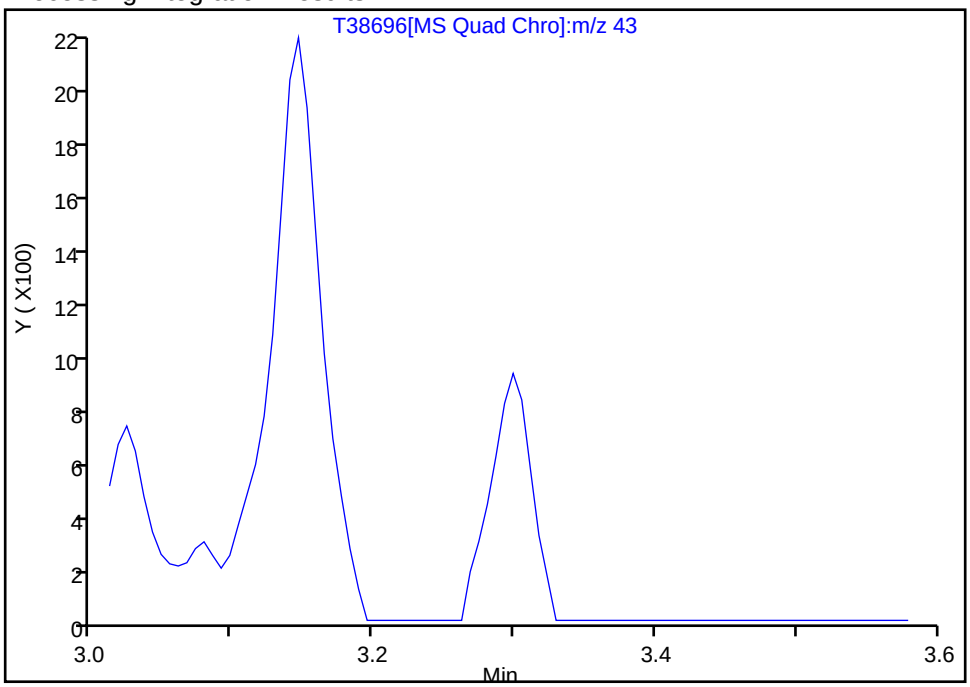
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

66 n-Heptane, CAS: 142-82-5

Signal: 1

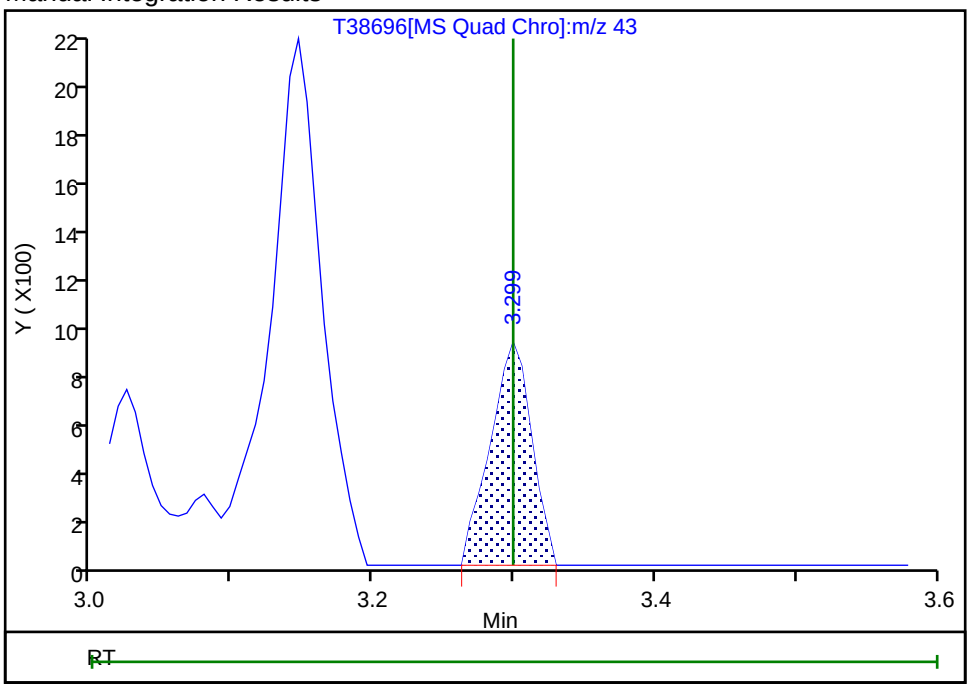
Not Detected
Expected RT: 3.30

Processing Integration Results



Manual Integration Results

RT: 3.30
Area: 1846
Amount: 0.978014
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:49
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

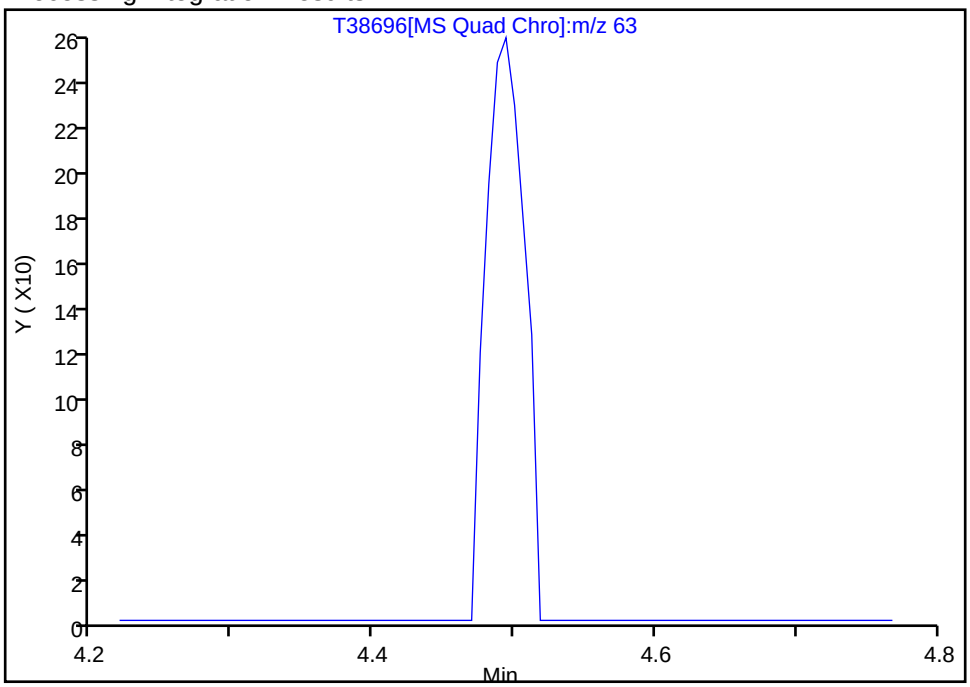
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

79 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

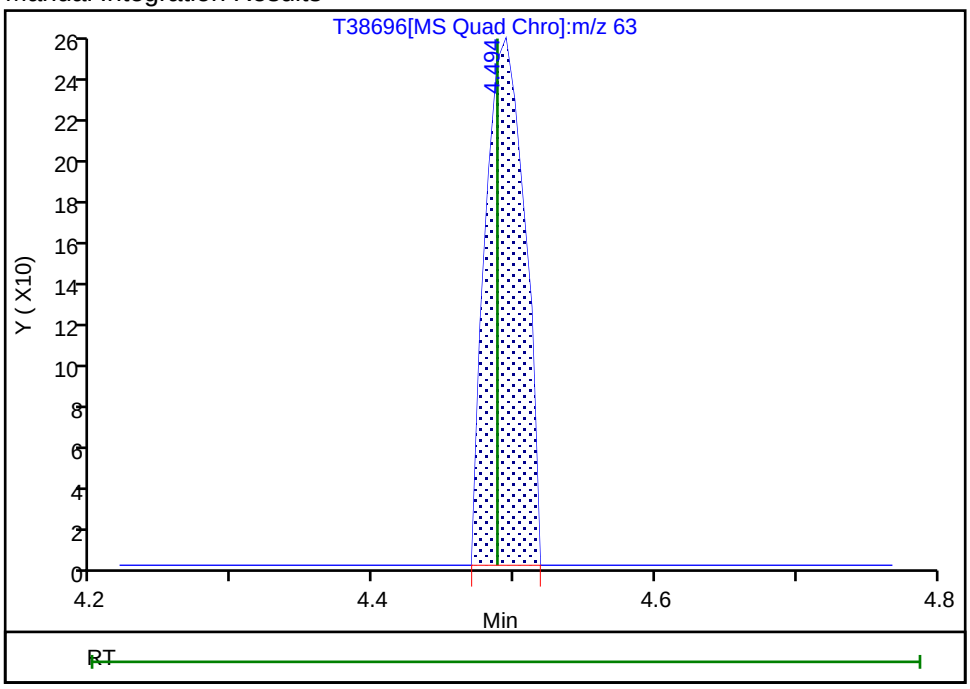
Not Detected
Expected RT: 4.49

Processing Integration Results



Manual Integration Results

RT: 4.49
Area: 495
Amount: 1.026879
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:57:56
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison

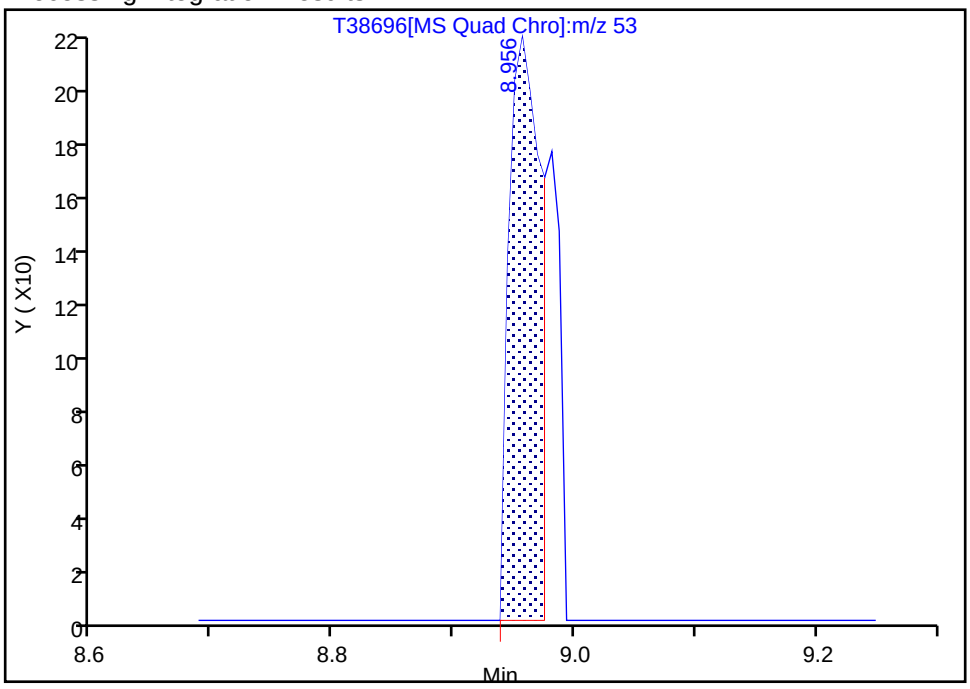
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38696.D
Injection Date: 04-Sep-2020 13:01:51 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

109 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

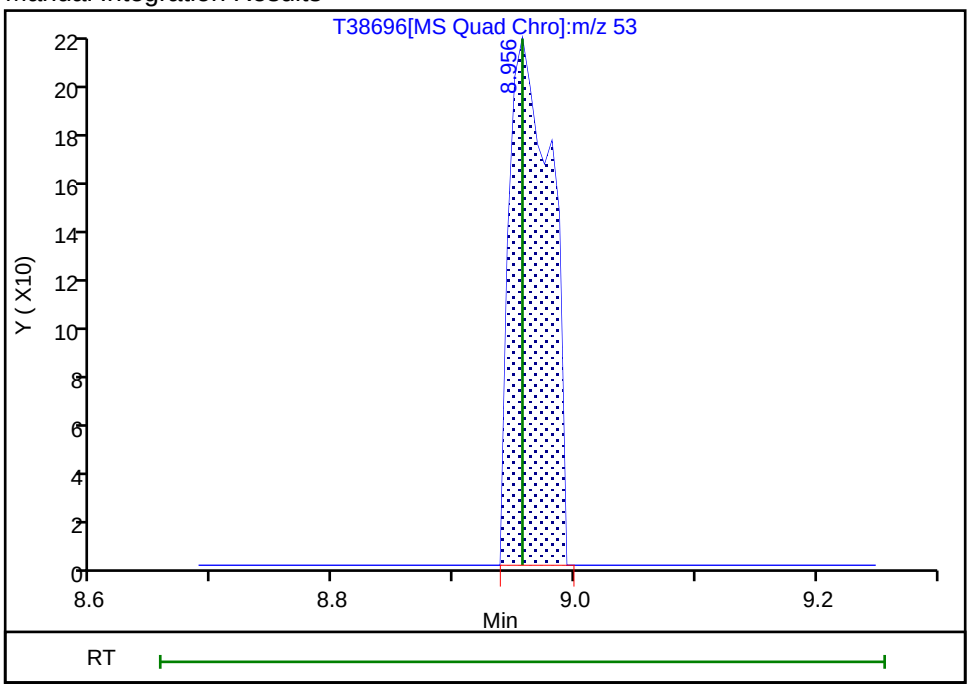
Processing Integration Results

RT: 8.96
Area: 404
Amount: 0.546161
Amount Units: ug/l



Manual Integration Results

RT: 8.96
Area: 522
Amount: 0.993417
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:58:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38697.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Sep-2020 13:25:50 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0116301-006
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:27:51 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: baronm Date: 05-Sep-2020 10:24:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	24	1942	5.00	4.40	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	86	5243	5.00	4.56	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	49	4212	5.00	4.63	
4 Dichlorodifluoromethane	85	0.647	0.653	-0.006	99	15785	5.00	4.46	
5 Chlorodifluoromethane	67	0.653	0.659	-0.006	82	1928	5.00	4.12	
6 Chloromethane	50	0.726	0.726	0.000	86	8833	5.00	4.54	
7 Vinyl chloride	62	0.769	0.769	0.000	93	12280	5.00	4.68	
8 Butadiene	54	0.787	0.787	0.000	92	9395	5.00	4.26	Ma
9 Bromomethane	94	0.909	0.909	0.000	89	6195	5.00	4.60	
10 Chloroethane	64	0.952	0.952	0.000	92	6985	5.00	4.40	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	88	19064	5.00	4.63	
12 Trichlorofluoromethane	101	1.067	1.068	-0.001	94	18325	5.00	4.40	
13 Pentane	72	1.110	1.110	0.000	94	3492	10.0	9.51	
14 Ethanol	45	1.165	1.171	-0.006	89	2362	200.0	246.3	
15 Ethyl ether	59	1.208	1.208	0.000	54	7787	5.00	4.71	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	79	11218	5.00	4.64	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	80	9216	5.00	4.96	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	85	16094	5.00	4.47	
19 Acrolein	56	1.269	1.269	0.000	78	3741	20.0	16.2	
20 1,1-Dichloroethene	96	1.317	1.318	-0.001	88	11205	5.00	4.82	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.317	1.318	-0.001	73	12000	5.00	4.78	
22 Acetone	43	1.348	1.348	0.000	84	13676	25.0	23.9	
23 Iodomethane	142	1.391	1.391	0.000	73	1928	5.00	1.50	
24 Carbon disulfide	76	1.421	1.421	0.000	98	35190	5.00	4.70	
25 Isopropyl alcohol	45	1.427	1.427	0.000	23	5038	50.0	50.6	
26 Acetonitrile	40	1.494	1.494	0.000	83	6379	50.0	51.4	
27 3-Chloro-1-propene	76	1.500	1.501	-0.001	91	8180	5.00	5.47	
28 Methyl acetate	43	1.519	1.519	0.000	97	11898	10.0	9.32	
29 Cyclopentene	67	1.543	1.543	0.000	93	25486	5.00	4.84	
30 Methylene Chloride	84	1.567	1.568	-0.001	78	12175	5.00	4.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	97	33082	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.647	1.647	0.000	91	10312	50.0	50.3	
33 Acrylonitrile	53	1.708	1.708	0.000	95	33442	50.0	49.3	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	80	13453	5.00	5.18	
35 Methyl tert-butyl ether	73	1.726	1.732	-0.006	96	31467	5.00	4.86	
36 Hexane	57	1.890	1.891	-0.001	89	13211	5.00	5.01	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	90	21487	5.00	5.11	
38 Vinyl acetate	86	2.018	2.019	-0.001	99	4617	10.0	10.4	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	72	11810	5.00	4.90	
40 Isopropyl ether	45	2.031	2.031	0.000	74	29621	5.00	4.94	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	88	33375	5.00	5.29	
* 42 2-Butanone-d5	46	2.335	2.336	-0.001	64	209700	250.0	250.0	
44 2,2-Dichloropropane	97	2.354	2.354	0.000	61	4542	5.00	5.03	a
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	69	14695	5.00	5.05	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	98	21122	25.0	25.0	
46 Propionitrile	54	2.421	2.421	0.000	94	13490	50.0	53.6	
47 Ethyl acetate	70	2.433	2.439	-0.006	97	2049	10.0	9.31	
48 Methyl acrylate	55	2.457	2.458	-0.001	90	9831	5.00	5.18	
49 Chlorobromomethane	128	2.531	2.531	0.000	48	7058	5.00	5.06	
50 Methacrylonitrile	67	2.531	2.531	0.000	87	45367	50.0	51.7	
51 Tetrahydrofuran	72	2.573	2.574	-0.001	71	2633	10.0	9.70	
52 Chloroform	83	2.598	2.598	0.000	97	23497	5.00	5.07	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	95	143685	50.0	50.8	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	40	21601	5.00	5.00	
55 Cyclohexane	84	2.768	2.769	-0.001	87	16856	5.00	4.89	
56 Carbon tetrachloride	117	2.860	2.860	0.000	92	17994	5.00	4.94	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	94	18066	5.00	5.00	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	90	144449	50.0	50.5	
59 Isobutyl alcohol	43	3.018	3.019	-0.001	43	8265	125.0	134.4	
60 Benzene	78	3.024	3.025	-0.001	96	47439	5.00	4.92	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	58	16435	5.00	5.10	
62 Isooctane	57	3.116	3.116	0.000	97	23620	5.00	5.13	
63 Isopropyl acetate	61	3.140	3.147	-0.007	91	3731	5.00	5.20	
64 Tert-amyl methyl ether	73	3.152	3.153	-0.001	84	33856	5.00	5.27	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	99	485212	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	46	9445	5.00	4.99	a
67 Trichloroethene	95	3.610	3.610	0.000	93	13597	5.00	4.80	
68 n-Butanol	56	3.634	3.628	0.006	49	4473	125.0	106.9	
69 Ethyl acrylate	55	3.780	3.775	0.006	91	23512	5.00	4.86	
70 Methylcyclohexane	83	3.786	3.787	-0.001	83	16729	5.00	4.79	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	83	11587	5.00	5.17	
72 Dibromomethane	93	3.933	3.933	0.000	81	8072	5.00	5.12	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	73	22731	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	24	2379	100.0	112.4	
75 Methyl methacrylate	100	4.000	4.000	0.000	81	5860	10.0	10.1	
76 n-Propyl acetate	43	4.085	4.085	0.000	92	11993	5.00	5.06	
77 Dichlorobromomethane	83	4.116	4.116	0.000	92	17179	5.00	4.98	
78 2-Nitropropane	41	4.366	4.366	0.000	87	4405	10.0	9.70	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	73	3511	5.01	4.34	
80 Epichlorohydrin	57	4.524	4.524	0.000	96	19650	100.0	102.9	
81 cis-1,3-Dichloropropene	75	4.609	4.610	-0.001	88	19985	5.00	5.01	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	93	40221	25.0	25.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	451652	50.0	49.6	
84 Toluene	91	4.981	4.982	-0.001	93	53298	5.00	5.05	
85 trans-1,3-Dichloropropene	75	5.292	5.286	0.006	88	17625	5.00	4.92	
86 Ethyl methacrylate	69	5.475	5.475	0.000	78	12272	5.00	4.81	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	90	9023	5.00	5.02	
88 Tetrachloroethene	166	5.640	5.640	0.000	95	14274	5.00	5.02	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	79	18610	5.00	5.38	
90 2-Hexanone	43	5.884	5.884	0.000	91	26416	25.0	24.7	
91 Chlorodibromomethane	129	5.975	5.975	0.000	89	13595	5.00	5.13	
92 Ethylene Dibromide	107	6.085	6.085	0.000	84	12415	5.00	5.27	
93 n-Butyl acetate	43	6.115	6.116	-0.001	92	12568	5.00	5.04	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	83	356810	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	93	33946	5.00	5.04	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	86	13137	5.00	5.15	
97 Ethylbenzene	106	6.993	6.993	0.000	97	18134	5.00	5.12	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	22473	5.00	5.13	
99 o-Xylene	106	7.743	7.743	0.000	92	20594	5.00	5.05	
100 Styrene	104	7.774	7.774	0.000	93	33317	5.00	5.10	
101 n-Butyl acrylate	73	7.871	7.865	0.006	89	6495	5.00	4.65	
102 Bromoform	173	7.987	7.987	0.000	84	8679	5.00	4.98	
103 Amyl acetate (mixed isomers)	43	8.261	8.255	0.006	82	14370	5.00	5.19	
104 Isopropylbenzene	105	8.340	8.341	-0.001	94	51714	5.00	5.09	
$ 105 4-Bromofluorobenzene	174	8.529	8.530	-0.001	90	147665	50.0	50.2	
106 Bromobenzene	156	8.700	8.700	0.000	89	13970	5.00	5.07	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	82	13381	5.00	5.23	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	75	4151	5.00	5.36	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	67	3243	5.00	4.91	
110 N-Propylbenzene	91	8.993	8.993	0.000	98	60218	5.00	4.98	
111 2-Chlorotoluene	91	9.054	9.048	0.006	91	36143	5.00	5.16	
112 4-Ethyltoluene	105	9.194	9.194	0.000	93	45654	5.00	4.85	
113 4-Chlorotoluene	91	9.237	9.237	0.000	94	37483	5.00	4.97	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	90	38079	5.00	5.00	
115 Butyl Methacrylate	87	9.621	9.621	0.000	76	12124	5.00	4.68	
116 tert-Butylbenzene	119	9.810	9.810	0.000	84	33602	5.00	5.10	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	93	36806	5.00	4.89	
118 sec-Butylbenzene	105	10.176	10.176	0.000	95	44738	5.00	4.96	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	91	23258	5.00	5.12	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	169480	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.413	10.414	-0.001	66	22484	5.00	4.82	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	81	37853	5.00	5.01	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	95	36267	5.00	4.94	
124 Benzyl chloride	91	10.688	10.682	0.006	95	22075	5.00	4.80	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	88	35523	5.00	4.88	
126 1,2-Dichlorobenzene	146	11.005	10.999	0.006	90	19862	5.00	4.84	
127 p-Diethylbenzene	119	11.108	11.109	-0.001	87	16929	5.00	4.72	
128 n-Butylbenzene	92	11.139	11.139	0.000	94	17138	5.00	4.88	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	59	2606	5.00	5.19	
130 1,2,4,5-Tetramethylbenzene	119	12.132	12.133	-0.001	90	25345	5.00	4.51	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	90	10651	5.00	4.58	
132 1,2,4-Trichlorobenzene	180	12.949	12.950	-0.001	78	8856	5.00	4.58	
133 Hexachlorobutadiene	225	13.151	13.151	0.000	43	3998	5.00	4.53	
134 Naphthalene	128	13.151	13.151	0.000	95	22901	5.00	4.61	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	76	7092	5.00	4.75	
S 136 1,2-Dichloroethene, Total	100				0		10.0	10.2	
S 137 Xylenes, Total	100				0		10.0	10.2	
S 140 Total BTEX	1				0		25.0	25.3	
S 139 1,3-Dichloropropene, Total	1				0		10.0	9.93	
S 138 Total 1,2-dichloroethene	1				0			10.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	10.00	Units: uL	
GASES Li_00384	Amount Added:	10.00	Units: uL	
524freon_00027	Amount Added:	10.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:27:52 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38697.D

Injection Date: 04-Sep-2020 13:25:50 Instrument ID: CVOAMS15

Lims ID: STD5

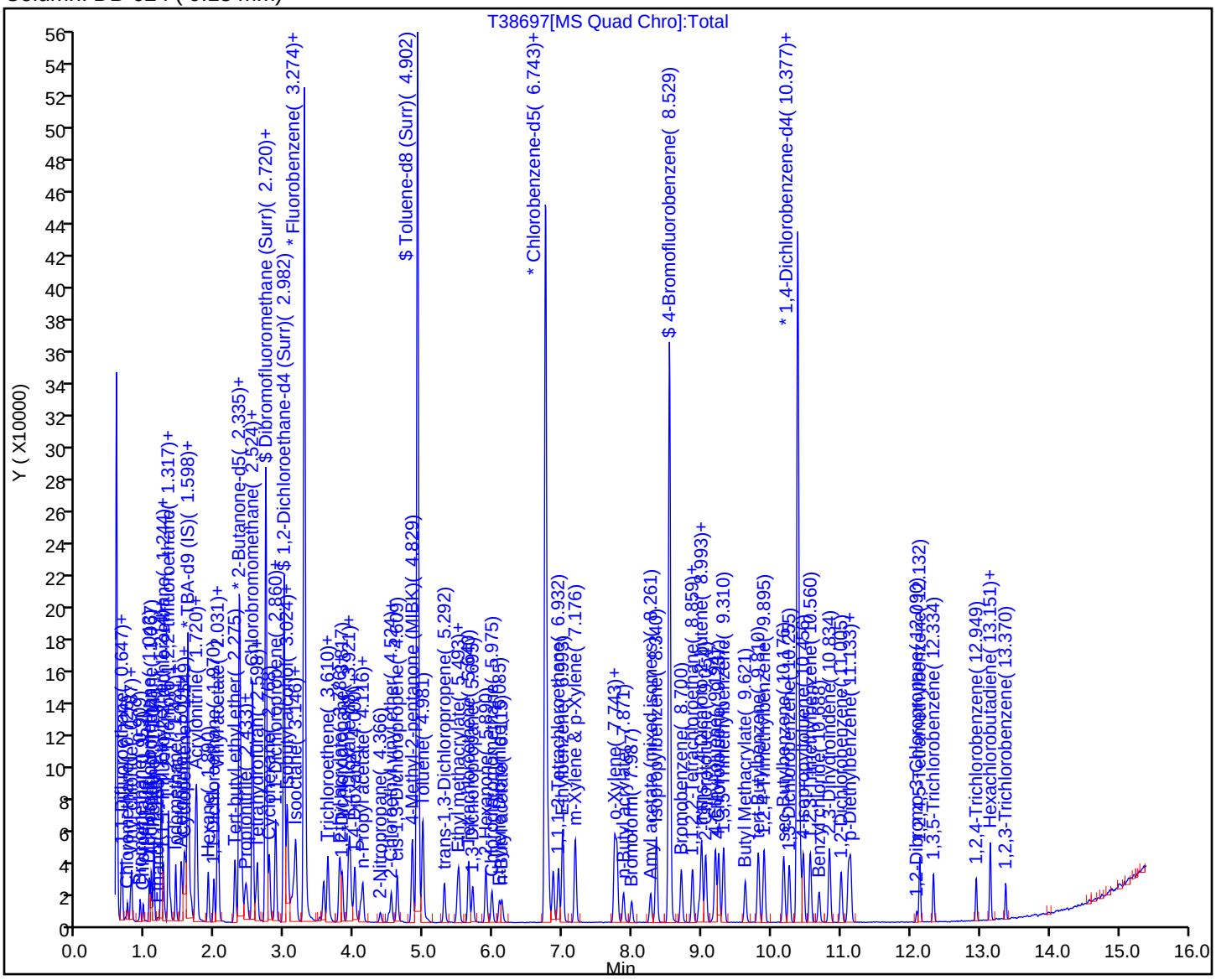
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

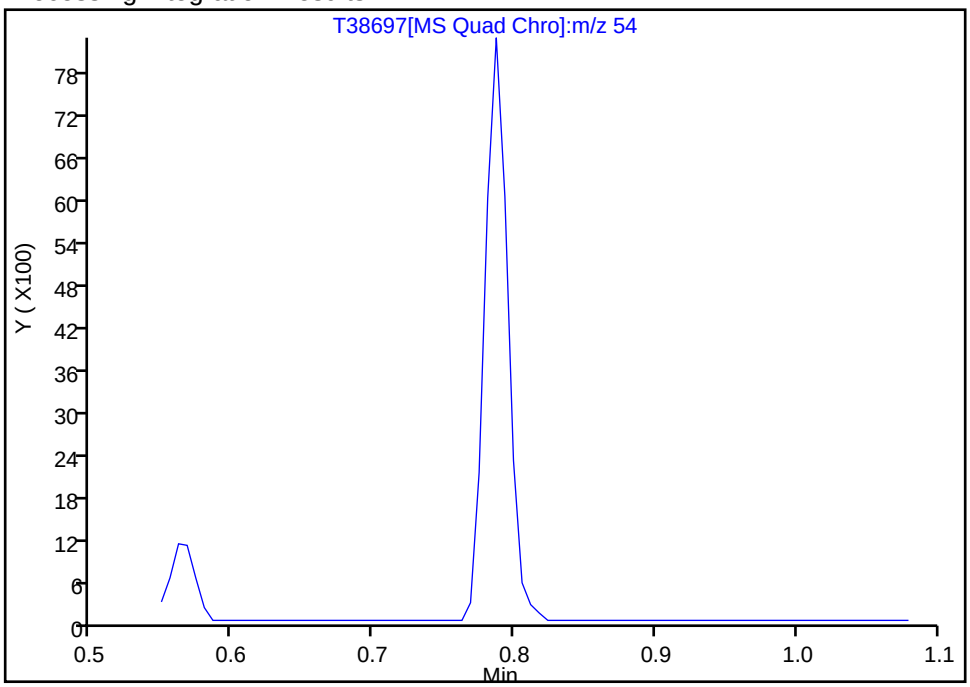
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38697.D
Injection Date: 04-Sep-2020 13:25:50 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

8 Butadiene, CAS: 106-99-0

Signal: 1

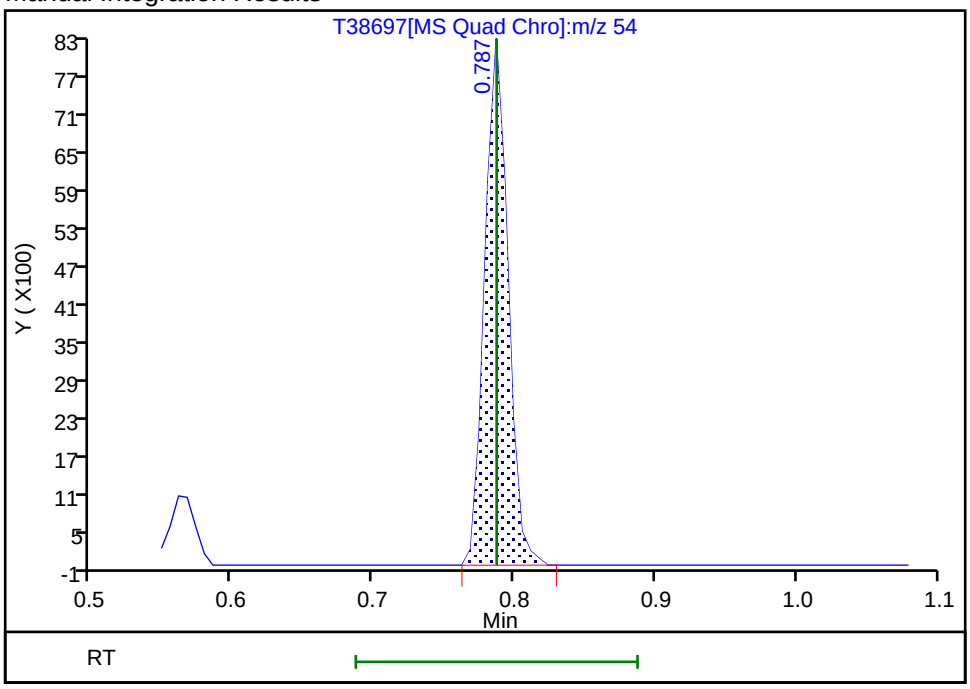
Not Detected
Expected RT: 0.79

Processing Integration Results



Manual Integration Results

RT: 0.79
Area: 9395
Amount: 4.261348
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:23:45
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

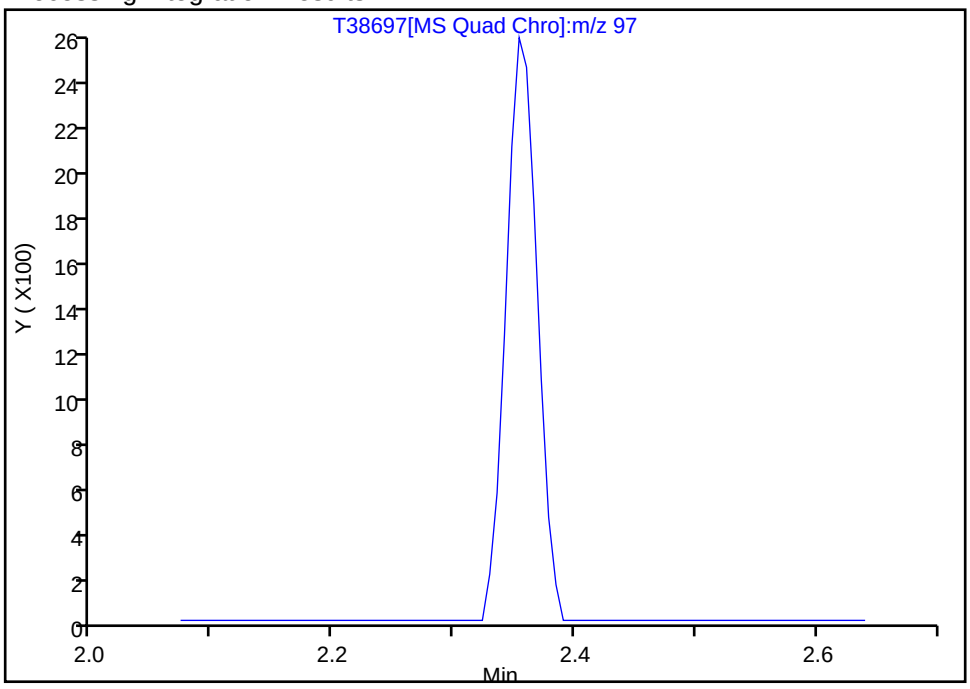
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38697.D
Injection Date: 04-Sep-2020 13:25:50 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

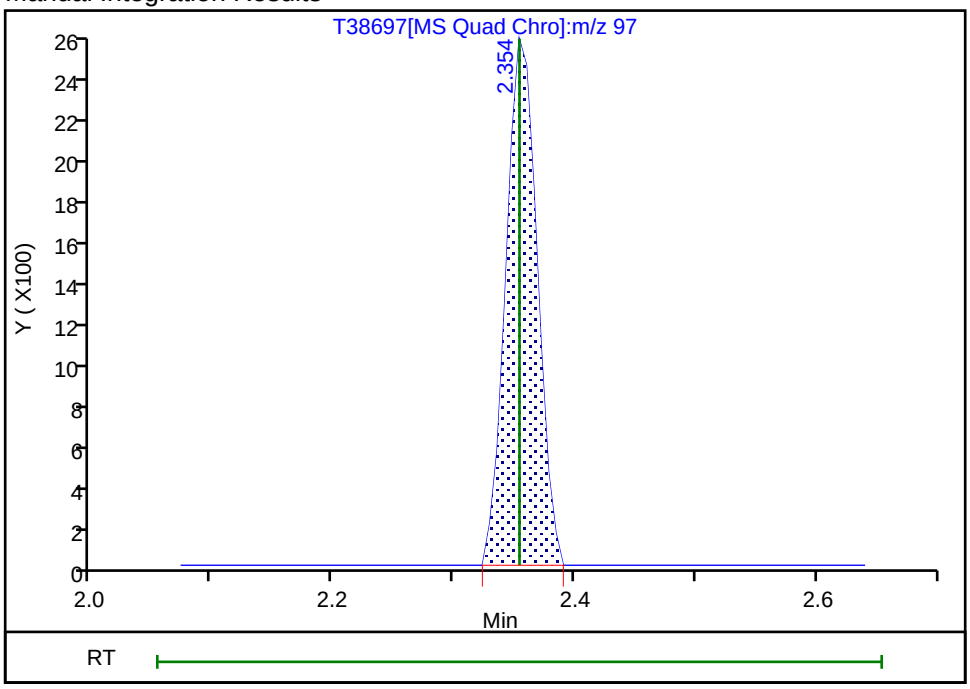
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.35
Area: 4542
Amount: 5.032603
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:23:59
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

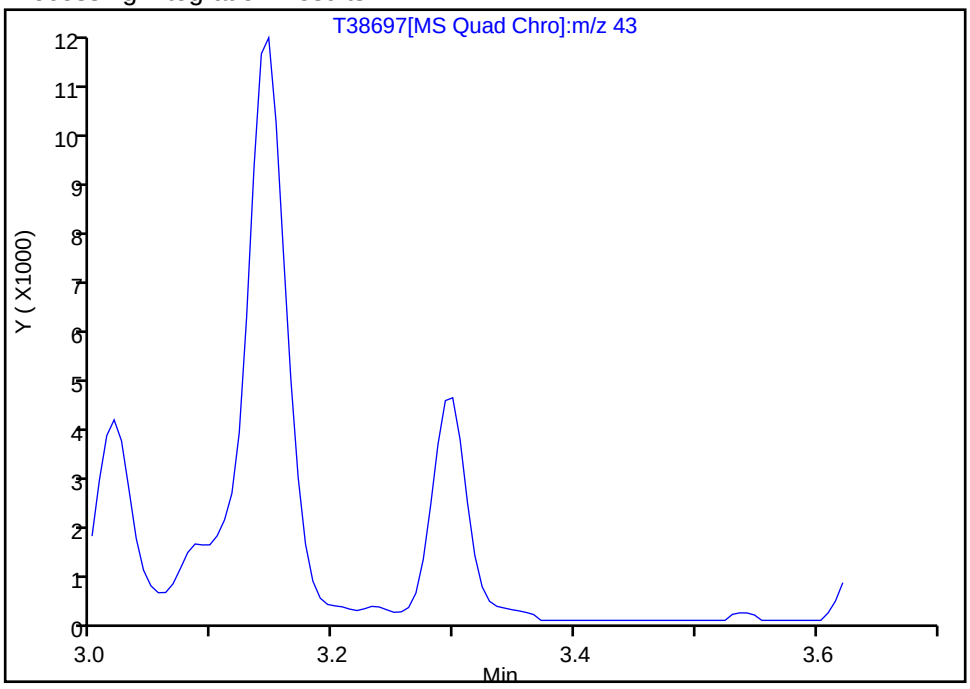
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38697.D
Injection Date: 04-Sep-2020 13:25:50 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

66 n-Heptane, CAS: 142-82-5

Signal: 1

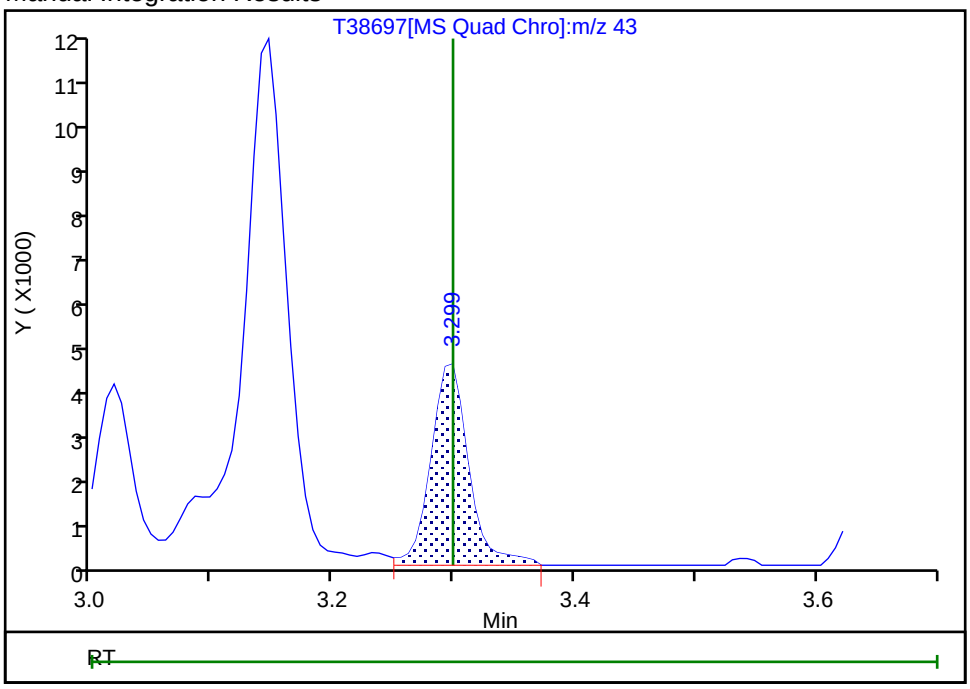
Not Detected
Expected RT: 3.30

Processing Integration Results



Manual Integration Results

RT: 3.30
Area: 9445
Amount: 4.992273
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:24:11
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38698.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 04-Sep-2020 13:49:48 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0116301-007
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:28:05 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: starzecm Date: 04-Sep-2020 14:22:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	36	8095	20.0	18.8	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	92	22596	20.0	20.2	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	72	18264	20.0	19.8	
4 Dichlorodifluoromethane	85	0.653	0.653	0.000	99	71184	20.0	20.7	
5 Chlorodifluoromethane	67	0.659	0.659	0.000	95	9180	20.0	20.2	
6 Chloromethane	50	0.726	0.726	0.000	99	35384	20.0	18.7	
7 Vinyl chloride	62	0.769	0.769	0.000	98	50984	20.0	20.0	
8 Butadiene	54	0.787	0.787	0.000	92	42777	20.0	19.9	
9 Bromomethane	94	0.909	0.909	0.000	95	24554	20.0	18.4	
10 Chloroethane	64	0.952	0.952	0.000	99	30110	20.0	19.1	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	90	77629	20.0	19.4	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	99	87520	20.0	21.6	
13 Pentane	72	1.110	1.110	0.000	95	14973	40.0	41.9	
14 Ethanol	45	1.171	1.171	0.000	92	8191	800.0	874.2	
15 Ethyl ether	59	1.208	1.208	0.000	55	30515	20.0	19.0	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	80	37491	20.0	20.7	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	88	48670	20.0	20.7	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	96	72162	20.0	20.6	
19 Acrolein	56	1.269	1.269	0.000	91	9928	40.0	43.4	
20 1,1-Dichloroethene	96	1.318	1.318	0.000	96	44169	20.0	19.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	78	53685	20.0	21.9	
22 Acetone	43	1.348	1.348	0.000	87	50604	100.0	89.3	
23 Iodomethane	142	1.391	1.391	0.000	100	21673	20.0	17.3	
24 Carbon disulfide	76	1.421	1.421	0.000	99	142890	20.0	19.6	
25 Isopropyl alcohol	45	1.427	1.427	0.000	30	18947	200.0	191.9	
26 Acetonitrile	40	1.494	1.494	0.000	82	22995	200.0	186.7	
27 3-Chloro-1-propene	76	1.501	1.501	0.000	93	29788	20.0	20.4	
28 Methyl acetate	43	1.519	1.519	0.000	96	47038	40.0	37.9	
29 Cyclopentene	67	1.543	1.543	0.000	93	110385	20.0	21.5	
30 Methylene Chloride	84	1.568	1.568	0.000	83	48203	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	98	32797	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.647	1.647	0.000	98	39686	200.0	195.4	
33 Acrylonitrile	53	1.708	1.708	0.000	95	135877	200.0	205.8	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	91	51381	20.0	20.3	
35 Methyl tert-butyl ether	73	1.732	1.732	0.000	95	126781	20.0	20.1	
36 Hexane	57	1.891	1.891	0.000	89	56563	20.0	22.0	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	99	84022	20.0	20.5	
38 Vinyl acetate	86	2.019	2.019	0.000	99	17583	40.0	40.1	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	77	47231	20.0	20.1	
40 Isopropyl ether	45	2.031	2.031	0.000	78	118149	20.0	20.2	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	90	124709	20.0	20.3	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	86	207905	250.0	250.0	
44 2,2-Dichloropropane	97	2.354	2.354	0.000	83	18777	20.0	21.4	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	93	56276	20.0	19.9	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	97	75173	100.0	89.9	
46 Propionitrile	54	2.421	2.421	0.000	98	51135	200.0	205.1	
47 Ethyl acetate	70	2.439	2.439	0.000	98	8344	40.0	38.2	
48 Methyl acrylate	55	2.458	2.458	0.000	96	38622	20.0	20.9	
49 Chlorobromomethane	128	2.531	2.531	0.000	52	27303	20.0	20.1	
50 Methacrylonitrile	67	2.531	2.531	0.000	87	175670	200.0	205.6	
51 Tetrahydrofuran	72	2.574	2.574	0.000	77	11145	40.0	41.4	
52 Chloroform	83	2.598	2.598	0.000	94	91090	20.0	20.2	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	134954	50.0	49.0	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	75	87714	20.0	20.8	
55 Cyclohexane	84	2.769	2.769	0.000	86	72294	20.0	21.5	
56 Carbon tetrachloride	117	2.860	2.860	0.000	89	75247	20.0	21.2	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	94	71986	20.0	20.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	90	136753	50.0	49.1	
59 Isobutyl alcohol	43	3.019	3.019	0.000	42	31658	500.0	519.2	
60 Benzene	78	3.025	3.025	0.000	96	189587	20.0	20.1	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	63	62408	20.0	19.9	
62 Isooctane	57	3.116	3.116	0.000	97	96377	20.0	21.5	
63 Isopropyl acetate	61	3.147	3.147	0.000	91	14649	20.0	21.0	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	82	127777	20.0	20.4	
* 65 Fluorobenzene	96	3.275	3.275	0.000	99	472367	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	77	39542	20.0	21.5	
67 Trichloroethene	95	3.610	3.610	0.000	95	55977	20.0	20.3	
68 n-Butanol	56	3.628	3.628	0.000	43	20810	500.0	501.7	
69 Ethyl acrylate	55	3.775	3.775	0.000	97	98185	20.0	20.8	
70 Methylcyclohexane	83	3.787	3.787	0.000	85	72518	20.0	21.3	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	88	47117	20.0	21.6	
72 Dibromomethane	93	3.933	3.933	0.000	76	32784	20.0	21.4	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	87	23961	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	31	9818	400.0	440.1	
75 Methyl methacrylate	100	4.000	4.000	0.000	82	22116	40.0	39.1	
76 n-Propyl acetate	43	4.085	4.085	0.000	96	48115	20.0	20.9	
77 Dichlorobromomethane	83	4.116	4.116	0.000	94	69040	20.0	20.5	
78 2-Nitropropane	41	4.366	4.366	0.000	98	17869	40.0	40.4	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	88	17739	20.0	20.4	
80 Epichlorohydrin	57	4.524	4.524	0.000	99	78803	400.0	416.1	
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	90	79655	20.0	20.4	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	94	155679	100.0	99.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	453441	50.0	50.9	
84 Toluene	91	4.982	4.982	0.000	93	212549	20.0	20.6	
85 trans-1,3-Dichloropropene	75	5.286	5.286	0.000	95	72302	20.0	20.7	
86 Ethyl methacrylate	69	5.475	5.475	0.000	85	50976	20.0	20.5	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	94	36285	20.0	20.7	
88 Tetrachloroethene	166	5.640	5.640	0.000	91	59338	20.0	21.3	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	88	70932	20.0	21.0	
90 2-Hexanone	43	5.884	5.884	0.000	93	108729	100.0	102.6	
91 Chlorodibromomethane	129	5.975	5.975	0.000	94	54077	20.0	20.9	
92 Ethylene Dibromide	107	6.085	6.085	0.000	96	48015	20.0	20.9	
93 n-Butyl acetate	43	6.116	6.116	0.000	97	51334	20.0	21.1	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	83	348723	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	96	137025	20.0	20.8	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	91	52187	20.0	20.9	
97 Ethylbenzene	106	6.993	6.993	0.000	98	72594	20.0	21.0	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	87605	20.0	20.5	
99 o-Xylene	106	7.743	7.743	0.000	93	82369	20.0	20.7	
100 Styrene	104	7.774	7.774	0.000	94	135843	20.0	21.3	
101 n-Butyl acrylate	73	7.865	7.865	0.000	97	31690	20.0	23.2	
102 Bromoform	173	7.987	7.987	0.000	96	35128	20.0	20.6	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	90	55766	20.0	20.5	
104 Isopropylbenzene	105	8.341	8.341	0.000	95	215333	20.0	21.7	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	91	147032	50.0	51.2	
106 Bromobenzene	156	8.700	8.700	0.000	94	56548	20.0	20.9	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	89	53165	20.0	21.1	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	82	16228	20.0	21.3	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	92	13289	20.0	19.7	
110 N-Propylbenzene	91	8.993	8.993	0.000	99	246809	20.0	20.8	
111 2-Chlorotoluene	91	9.048	9.048	0.000	95	146276	20.0	21.3	
112 4-Ethyltoluene	105	9.194	9.194	0.000	98	187697	20.0	20.3	
113 4-Chlorotoluene	91	9.237	9.237	0.000	97	145619	20.0	19.6	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	92	153420	20.0	20.5	
115 Butyl Methacrylate	87	9.621	9.621	0.000	87	49842	20.0	19.6	
116 tert-Butylbenzene	119	9.810	9.810	0.000	89	134405	20.0	20.7	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	97	153542	20.0	20.8	
118 sec-Butylbenzene	105	10.176	10.176	0.000	98	184551	20.0	20.8	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	97	91455	20.0	20.5	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	166530	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.414	10.414	0.000	91	89849	20.0	19.6	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	89	152555	20.0	20.6	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	98	149473	20.0	20.7	
124 Benzyl chloride	91	10.682	10.682	0.000	98	89168	20.0	19.8	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	92	144677	20.0	20.2	
126 1,2-Dichlorobenzene	146	10.999	10.999	0.000	95	81134	20.0	20.1	
127 p-Diethylbenzene	119	11.109	11.109	0.000	91	73287	20.0	20.8	a
128 n-Butylbenzene	92	11.139	11.139	0.000	96	70312	20.0	20.4	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	86	10089	20.0	19.5	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	96	110641	20.0	20.0	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	96	45760	20.0	20.0	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	37876	20.0	19.9	
133 Hexachlorobutadiene	225	13.151	13.151	0.000	54	16315	20.0	19.9	
134 Naphthalene	128	13.151	13.151	0.000	99	91178	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	92	28891	20.0	19.7	
S 136 1,2-Dichloroethene, Total	100				0		40.0	40.2	
S 137 Xylenes, Total	100				0		40.0	41.1	
S 140 Total BTEX	1				0		100.0	102.8	
S 139 1,3-Dichloropropene, Total	1				0		40.0	41.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
524freon_00027	Amount Added:	20.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:28:08 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38698.D

Injection Date: 04-Sep-2020 13:49:48 Instrument ID: CVOAMS15

Lims ID: STD20

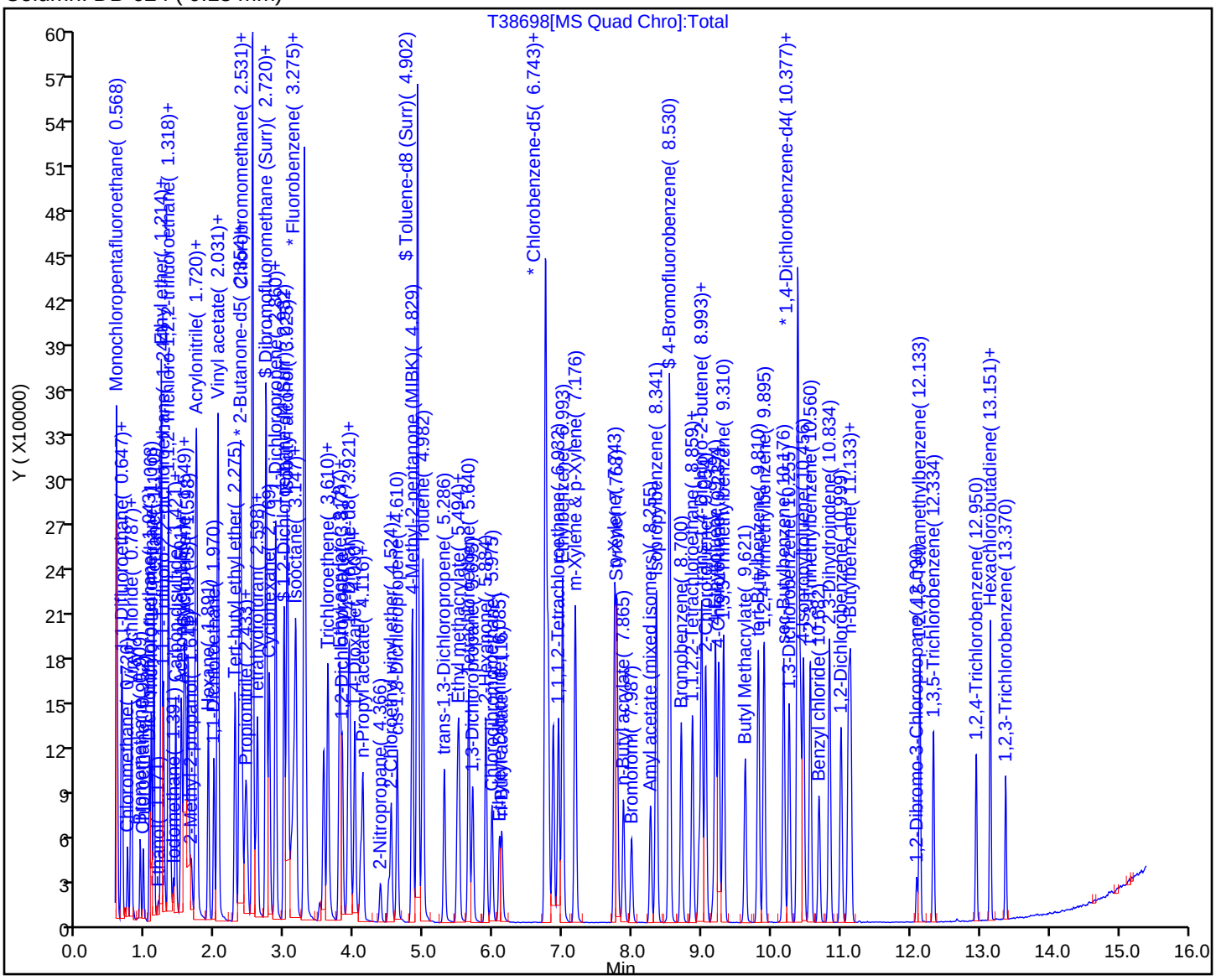
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison

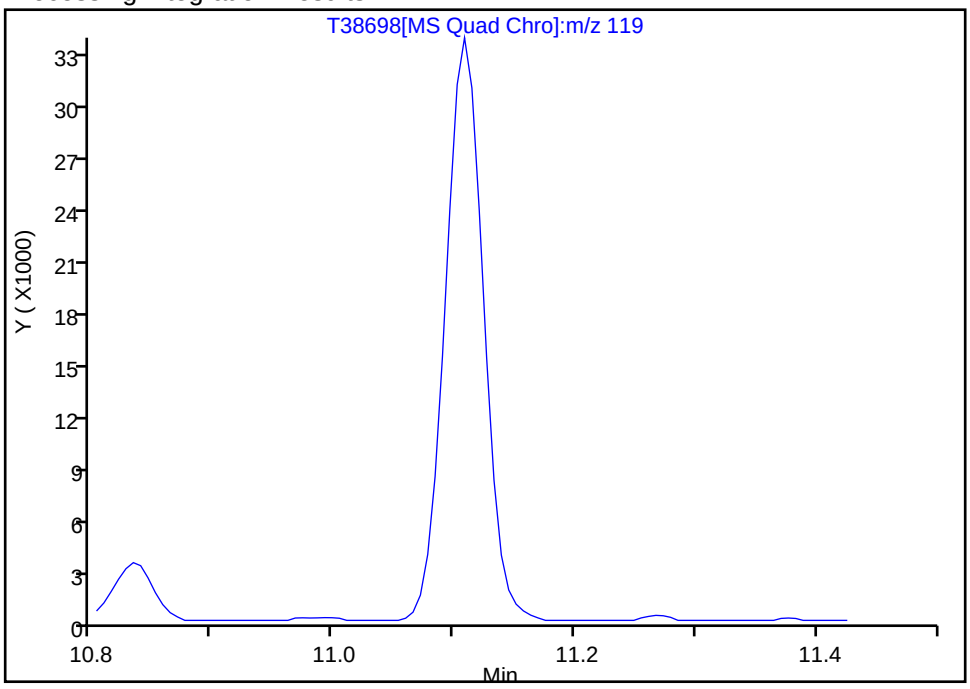
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38698.D
Injection Date: 04-Sep-2020 13:49:48 Instrument ID: CVOAMS15
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

127 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

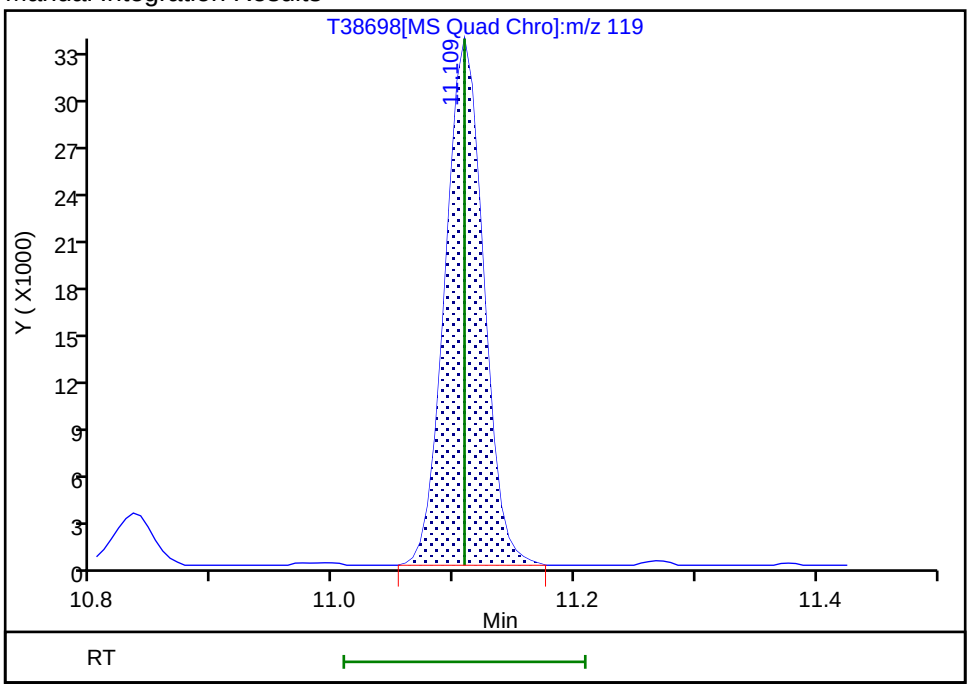
Not Detected
Expected RT: 11.11

Processing Integration Results



Manual Integration Results

RT: 11.11
Area: 73287
Amount: 20.789415
Amount Units: ug/l



Reviewer: delpolitov, 04-Sep-2020 16:46:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38699.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 04-Sep-2020 14:13:47 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0116301-008
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:28:20 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: baronm Date: 05-Sep-2020 10:26:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	51	18324	50.0	42.3	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	92	58101	50.0	51.5	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	69	47078	50.0	49.3	
4 Dichlorodifluoromethane	85	0.653	0.653	0.000	99	181094	50.0	52.1	
5 Chlorodifluoromethane	67	0.659	0.659	0.000	95	24406	50.0	53.2	
6 Chloromethane	50	0.726	0.726	0.000	99	98107	50.0	51.3	
7 Vinyl chloride	62	0.769	0.769	0.000	99	137086	50.0	53.3	
8 Butadiene	54	0.787	0.787	0.000	93	117568	50.0	54.3	
9 Bromomethane	94	0.909	0.909	0.000	99	64136	50.0	49.6	
10 Chloroethane	64	0.952	0.952	0.000	99	81493	50.0	53.5	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	99	211030	50.0	52.2	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	98	227334	50.0	55.6	
13 Pentane	72	1.104	1.110	-0.006	96	38229	100.0	106.1	
14 Ethanol	45	1.171	1.171	0.000	95	17166	2000.0	1834.5	
15 Ethyl ether	59	1.208	1.208	0.000	55	83236	50.0	51.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	81	122013	50.0	51.5	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	80	94587	50.0	51.9	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	96	181837	50.0	51.4	
19 Acrolein	56	1.269	1.269	0.000	96	25168	100.0	107.6	
20 1,1-Dichloroethene	96	1.318	1.318	0.000	97	117416	50.0	51.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	77	128696	50.0	52.2	
22 Acetone	43	1.348	1.348	0.000	87	123872	250.0	225.9	
23 Iodomethane	142	1.391	1.391	0.000	98	93953	50.0	74.4	
24 Carbon disulfide	76	1.421	1.421	0.000	98	366981	50.0	49.9	
25 Isopropyl alcohol	45	1.433	1.427	0.006	39	56094	500.0	556.2	
26 Acetonitrile	40	1.494	1.494	0.000	82	59859	500.0	502.2	
27 3-Chloro-1-propene	76	1.501	1.501	-0.001	93	76166	50.0	51.9	
28 Methyl acetate	43	1.519	1.519	0.000	96	121708	100.0	97.1	
29 Cyclopentene	67	1.543	1.543	0.000	95	264563	50.0	51.2	
30 Methylene Chloride	84	1.568	1.568	0.000	84	126123	50.0	50.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.604	1.598	0.006	98	33499	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.647	1.647	0.000	98	96846	500.0	466.8	
33 Acrylonitrile	53	1.708	1.708	0.000	94	341271	500.0	512.6	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	90	134809	50.0	52.9	
35 Methyl tert-butyl ether	73	1.732	1.732	0.000	95	330891	50.0	52.1	
36 Hexane	57	1.891	1.891	0.000	90	133224	50.0	51.5	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	100	212694	50.0	51.5	
38 Vinyl acetate	86	2.019	2.019	0.000	99	46670	100.0	110.0	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	76	120832	50.0	51.1	
40 Isopropyl ether	45	2.031	2.031	0.000	77	313131	50.0	53.2	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	90	325384	50.0	52.5	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	93	201249	250.0	250.0	
44 2,2-Dichloropropane	97	2.360	2.354	0.006	80	46915	50.0	53.0	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	98	146435	50.0	51.3	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	98	191880	250.0	237.1	
46 Propionitrile	54	2.421	2.421	0.000	98	130237	500.0	511.4	
47 Ethyl acetate	70	2.439	2.439	0.000	99	21331	100.0	101.1	
48 Methyl acrylate	55	2.458	2.458	0.000	97	99002	50.0	53.1	
49 Chlorobromomethane	128	2.531	2.531	0.000	52	70399	50.0	51.4	
50 Methacrylonitrile	67	2.531	2.531	0.000	87	450178	500.0	522.6	
51 Tetrahydrofuran	72	2.573	2.574	-0.001	78	30069	100.0	115.4	
52 Chloroform	83	2.598	2.598	0.000	100	235737	50.0	51.8	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	88	137373	50.0	49.4	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	91	220470	50.0	52.0	
55 Cyclohexane	84	2.769	2.769	0.000	87	170569	50.0	50.4	
56 Carbon tetrachloride	117	2.860	2.860	0.000	97	192094	50.0	53.7	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	96	179562	50.0	50.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	91	138293	50.0	49.3	
59 Isobutyl alcohol	43	3.019	3.019	0.000	42	80307	1250.0	1289.6	
60 Benzene	78	3.025	3.025	0.000	96	484677	50.0	50.0	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	63	158518	50.0	50.2	
62 Isooctane	57	3.116	3.116	0.000	98	233775	50.0	51.7	a
63 Isopropyl acetate	61	3.147	3.147	0.000	92	38172	50.0	54.2	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	81	332598	50.0	52.8	
* 65 Fluorobenzene	96	3.275	3.275	0.000	99	476309	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	84	95976	50.0	51.7	
67 Trichloroethene	95	3.610	3.610	0.000	94	140596	50.0	50.5	
68 n-Butanol	56	3.628	3.628	0.000	44	58732	1250.0	1386.3	
69 Ethyl acrylate	55	3.774	3.775	0.000	97	248588	50.0	52.3	
70 Methylcyclohexane	83	3.787	3.787	0.000	84	181190	50.0	52.9	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	87	116194	50.0	52.8	
72 Dibromomethane	93	3.933	3.933	0.000	76	81349	50.0	52.6	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	89	23805	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	35	25404	1000.0	1146.2	
75 Methyl methacrylate	100	4.000	4.000	0.000	81	64235	100.0	112.6	
76 n-Propyl acetate	43	4.085	4.085	0.000	96	122143	50.0	52.5	
77 Dichlorobromomethane	83	4.116	4.116	0.000	98	177256	50.0	52.3	
78 2-Nitropropane	41	4.366	4.366	0.000	97	45340	100.0	101.7	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	92	48476	50.1	54.0	
80 Epichlorohydrin	57	4.524	4.524	0.000	99	195544	1000.0	1066.7	
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	85	205825	50.0	51.3	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	94	399769	250.0	264.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	454255	50.0	49.6	
84 Toluene	91	4.982	4.982	0.000	93	532104	50.0	50.1	
85 trans-1,3-Dichloropropene	75	5.286	5.286	0.000	91	193445	50.0	53.7	
86 Ethyl methacrylate	69	5.475	5.475	0.000	86	134838	50.0	52.6	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	94	94409	50.0	52.3	
88 Tetrachloroethene	166	5.640	5.640	0.000	91	150963	50.0	52.7	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	90	182529	50.0	52.5	
90 2-Hexanone	43	5.884	5.884	0.000	93	276172	250.0	269.2	
91 Chlorodibromomethane	129	5.975	5.975	0.000	96	143070	50.0	53.7	
92 Ethylene Dibromide	107	6.079	6.085	-0.006	97	123081	50.0	52.0	
93 n-Butyl acetate	43	6.116	6.116	0.000	97	130474	50.0	52.0	
* 94 Chlorobenzene-d5	117	6.750	6.743	0.007	83	358828	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	96	343416	50.0	50.7	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	96	136262	50.0	53.1	
97 Ethylbenzene	106	6.993	6.993	0.000	98	182480	50.0	51.3	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	222599	50.0	50.5	
99 o-Xylene	106	7.743	7.743	0.000	94	209528	50.0	51.1	
100 Styrene	104	7.774	7.774	0.000	93	353816	50.0	53.9	
101 n-Butyl acrylate	73	7.871	7.865	0.006	97	77287	50.0	55.1	
102 Bromoform	173	7.987	7.987	0.000	95	92851	50.0	53.0	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	92	145402	50.0	52.8	
104 Isopropylbenzene	105	8.341	8.341	0.000	96	543980	50.0	53.2	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	89	148390	50.0	50.2	
106 Bromobenzene	156	8.700	8.700	0.000	95	142752	50.0	52.1	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	90	129147	50.0	50.7	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	84	40708	50.0	52.8	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	95	34706	50.0	50.4	
110 N-Propylbenzene	91	8.993	8.993	0.000	99	613132	50.0	50.9	
111 2-Chlorotoluene	91	9.054	9.048	0.006	96	367358	50.0	52.7	
112 4-Ethyltoluene	105	9.194	9.194	0.000	98	484464	50.0	51.7	
113 4-Chlorotoluene	91	9.237	9.237	0.000	98	382605	50.0	50.9	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	93	386589	50.0	51.0	
115 Butyl Methacrylate	87	9.621	9.621	0.000	85	141128	50.0	54.7	
116 tert-Butylbenzene	119	9.810	9.810	0.000	91	338899	50.0	51.6	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	97	390346	50.0	52.1	
118 sec-Butylbenzene	105	10.176	10.176	0.000	99	464982	50.0	51.8	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	96	230743	50.0	51.0	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	168732	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.414	10.414	0.000	93	230974	50.0	49.7	
122 4-Isopropyltoluene	119	10.462	10.456	0.006	90	386118	50.0	51.4	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	98	383349	50.0	52.4	
124 Benzyl chloride	91	10.682	10.682	0.000	98	230347	50.0	50.4	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	90	381465	50.0	52.6	
126 1,2-Dichlorobenzene	146	11.005	10.999	0.006	96	213614	50.0	52.3	
127 p-Diethylbenzene	119	11.109	11.109	-0.001	92	189760	50.0	53.1	
128 n-Butylbenzene	92	11.139	11.139	0.000	97	186339	50.0	53.3	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	94	25184	50.0	47.4	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	97	291990	50.0	52.1	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	96	118793	50.0	51.3	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	97146	50.0	50.4	
133 Hexachlorobutadiene	225	13.151	13.151	0.000	57	40717	50.0	49.5	
134 Naphthalene	128	13.151	13.151	0.000	99	244743	50.0	49.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	95	76607	50.0	51.5	
S 136 1,2-Dichloroethene, Total	100				0		100.0	104.2	
S 137 Xylenes, Total	100				0		100.0	101.6	
S 140 Total BTEX	1				0		250.0	252.9	
S 139 1,3-Dichloropropene, Total	1				0		100.0	105.0	
S 138 Total 1,2-dichloroethene	1				0			104.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	50.00	Units: uL	
GASES Li_00384	Amount Added:	50.00	Units: uL	
524freon_00027	Amount Added:	50.00	Units: uL	
ACROLEIN W_00112	Amount Added:	10.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:28:23 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38699.D

Injection Date: 04-Sep-2020 14:13:47 Instrument ID: CVOAMS15

Lims ID: STD50

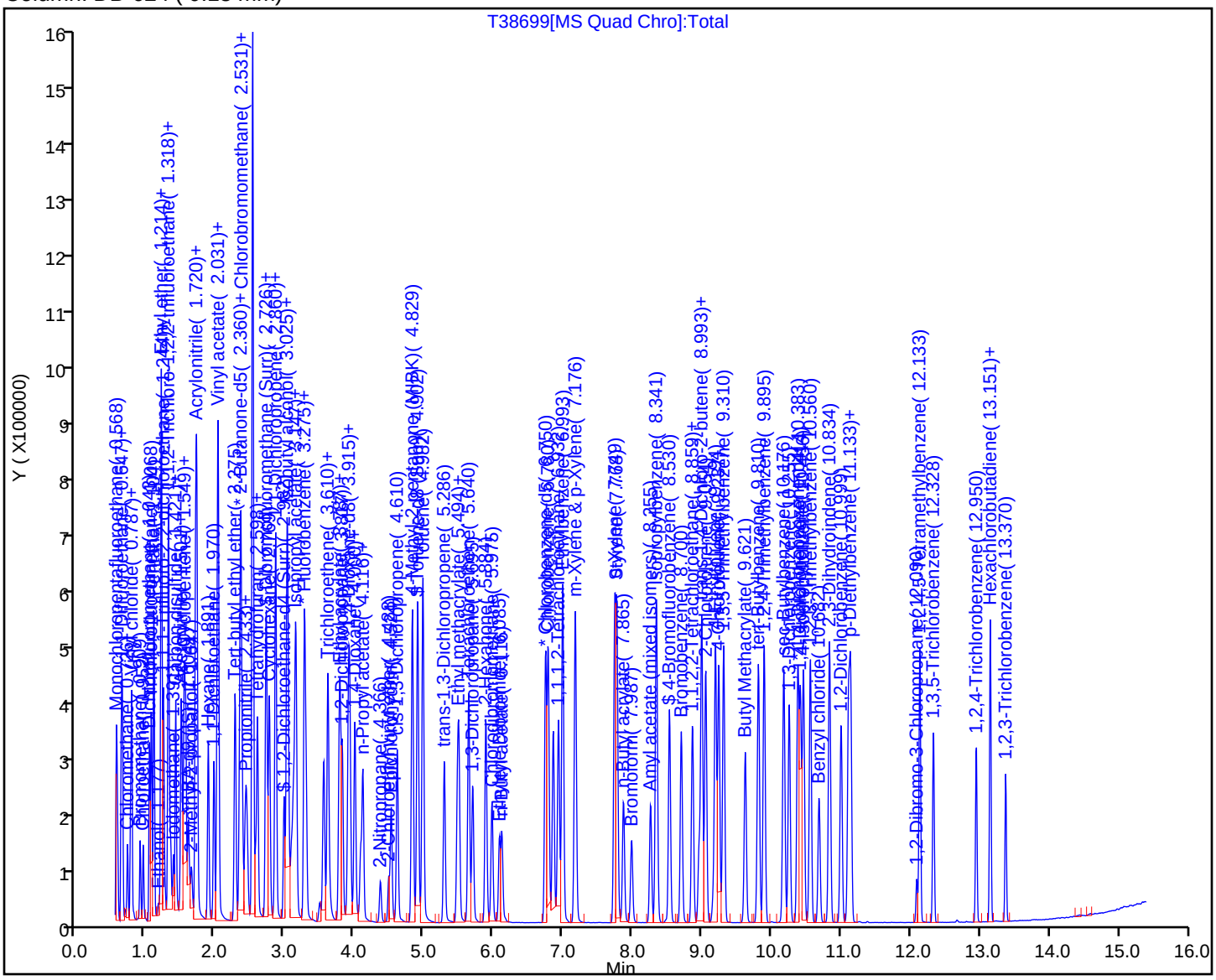
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

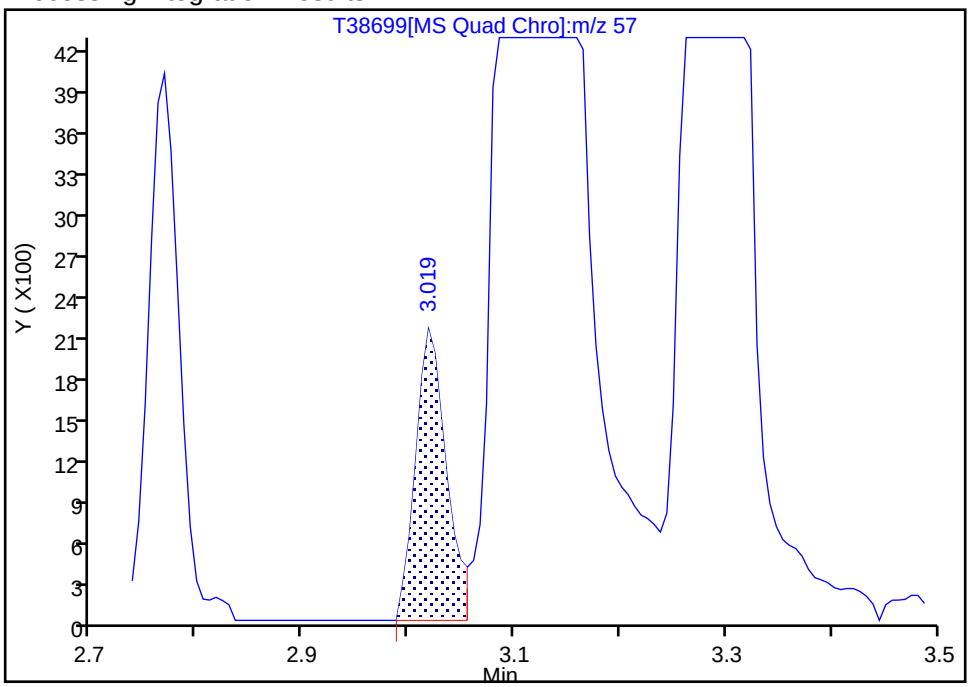
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38699.D
Injection Date: 04-Sep-2020 14:13:47 Instrument ID: CVOAMS15
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 Isooctane, CAS: 540-84-1

Signal: 1

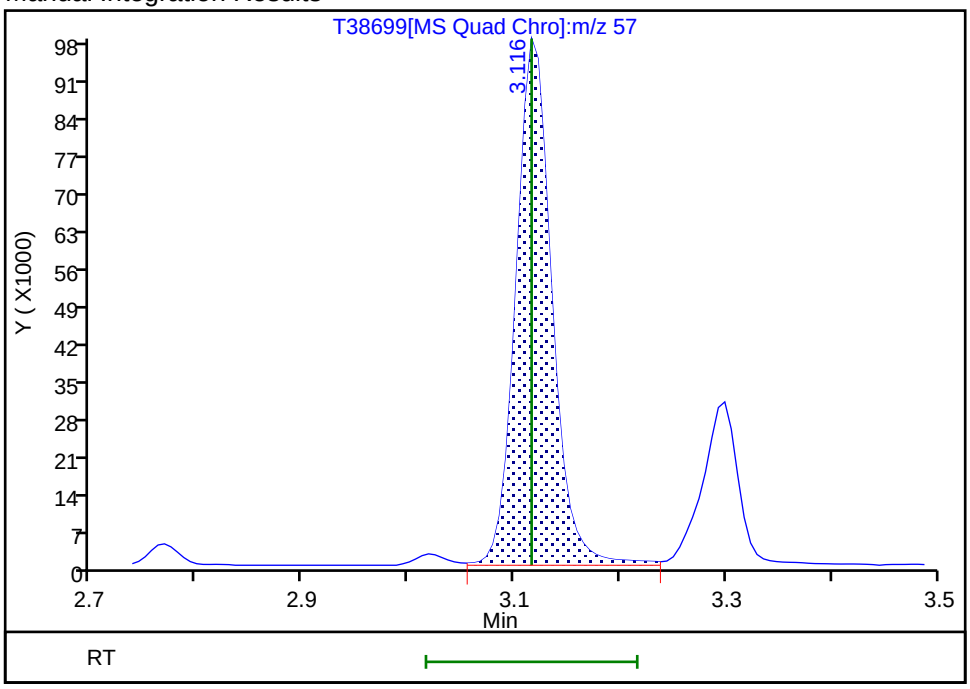
Processing Integration Results

RT: 3.02
Area: 4354
Amount: 1.126490
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 233775
Amount: 51.713346
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:26:07
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38700.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 04-Sep-2020 14:37:49 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0116301-009
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:28:37 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: baronm Date: 05-Sep-2020 10:43:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	95	85345	200.0	200.7	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	93	234122	200.0	211.8	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	78	212369	200.0	204.8	
4 Dichlorodifluoromethane	85	0.653	0.653	0.000	99	771925	200.0	226.6	
5 Chlorodifluoromethane	67	0.659	0.659	0.000	95	97821	200.0	217.3	
6 Chloromethane	50	0.726	0.726	0.000	99	366219	200.0	195.4	
7 Vinyl chloride	62	0.769	0.769	0.000	99	527233	200.0	208.9	
8 Butadiene	54	0.787	0.787	0.000	93	470885	200.0	221.9	
9 Bromomethane	94	0.909	0.909	0.000	99	322292	200.0	255.8	
10 Chloroethane	64	0.952	0.952	0.000	99	304774	200.0	205.3	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	99	789905	200.0	199.4	
12 Trichlorofluoromethane	101	1.074	1.068	0.006	99	879376	200.0	219.2	
13 Pentane	72	1.110	1.110	0.000	95	155402	400.0	439.8	
14 Ethanol	45	1.171	1.171	0.000	94	61953	8000.0	8067.7	
15 Ethyl ether	59	1.208	1.208	0.000	56	321824	200.0	202.4	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	80	377345	200.0	211.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	89	481958	200.0	207.3	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	96	718684	200.0	207.3	
19 Acrolein	56	1.269	1.269	0.000	94	48524	200.0	215.4	
20 1,1-Dichloroethene	96	1.317	1.318	-0.001	96	459465	200.0	205.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.317	1.318	-0.001	81	539298	200.0	223.0	
22 Acetone	43	1.348	1.348	0.000	88	516437	1000.0	966.5	
23 Iodomethane	142	1.391	1.391	0.000	99	520046	200.0	420.2	
24 Carbon disulfide	76	1.421	1.421	0.000	98	1414775	200.0	196.3	
25 Isopropyl alcohol	45	1.433	1.427	0.006	36	195478	2000.0	2012.2	
26 Acetonitrile	40	1.494	1.494	0.000	82	217685	2000.0	1873.9	
27 3-Chloro-1-propene	76	1.500	1.501	-0.001	94	291370	200.0	202.3	
28 Methyl acetate	43	1.519	1.519	0.000	96	462854	400.0	376.8	
29 Cyclopentene	67	1.543	1.543	0.000	95	1066208	200.0	210.4	
30 Methylene Chloride	84	1.567	1.568	-0.001	83	477834	200.0	193.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.604	1.598	0.006	98	32267	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.653	1.647	0.006	98	372176	2000.0	1862.4	
33 Acrylonitrile	53	1.708	1.708	0.000	94	1289394	2000.0	1975.2	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	91	512816	200.0	205.3	
35 Methyl tert-butyl ether	73	1.732	1.732	0.000	95	1250878	200.0	200.8	
36 Hexane	57	1.890	1.891	-0.001	89	549455	200.0	216.6	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	100	797913	200.0	197.2	
38 Vinyl acetate	86	2.018	2.019	-0.001	99	203897	400.0	493.1	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	75	480793	200.0	207.4	
40 Isopropyl ether	45	2.037	2.031	0.006	84	1137455	200.0	197.1	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	89	1219843	200.0	200.8	
* 42 2-Butanone-d5	46	2.342	2.336	0.006	77	196136	250.0	250.0	
44 2,2-Dichloropropane	97	2.360	2.354	0.006	79	182584	200.0	210.2	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	98	563758	200.0	201.4	
45 2-Butanone (MEK)	43	2.384	2.378	0.006	97	754351	1000.0	956.3	
46 Propionitrile	54	2.421	2.421	0.000	98	482660	2000.0	1967.7	
47 Ethyl acetate	70	2.439	2.439	0.000	99	81719	400.0	399.9	
48 Methyl acrylate	55	2.457	2.458	-0.001	96	363781	200.0	198.9	
49 Chlorobromomethane	128	2.531	2.531	0.000	52	264929	200.0	197.5	
50 Methacrylonitrile	67	2.537	2.531	0.006	87	1693932	2000.0	2005.4	
51 Tetrahydrofuran	72	2.573	2.574	-0.001	80	108728	400.0	428.3	
52 Chloroform	83	2.598	2.598	0.000	100	890928	200.0	199.7	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	50	134143	50.0	49.2	
54 1,1,1-Trichloroethane	97	2.732	2.726	0.006	95	848245	200.0	203.9	
55 Cyclohexane	84	2.768	2.769	-0.001	86	714797	200.0	215.5	
56 Carbon tetrachloride	117	2.860	2.860	0.000	98	782505	200.0	223.1	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	96	714655	200.0	205.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	98	133248	50.0	48.4	
59 Isobutyl alcohol	43	3.018	3.019	-0.001	50	325479	5000.0	5426.0	
60 Benzene	78	3.031	3.025	0.005	96	1892747	200.0	200.0	
61 1,2-Dichloroethane	62	3.049	3.043	0.006	83	609868	200.0	196.8	
62 Isooctane	57	3.122	3.116	0.006	98	968146	200.0	218.4	
63 Isopropyl acetate	61	3.146	3.147	-0.001	92	151465	200.0	219.3	
64 Tert-amyl methyl ether	73	3.152	3.153	-0.001	79	1261937	200.0	204.2	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	99	467044	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	85	391332	200.0	214.9	
67 Trichloroethene	95	3.610	3.610	0.000	99	551877	200.0	202.3	
68 n-Butanol	56	3.634	3.628	0.006	67	241952	5000.0	5928.9	
69 Ethyl acrylate	55	3.780	3.775	0.006	96	998711	200.0	214.3	
70 Methylcyclohexane	83	3.786	3.787	-0.001	82	753832	200.0	224.3	
71 1,2-Dichloropropane	63	3.823	3.817	0.006	89	449519	200.0	208.2	
72 Dibromomethane	93	3.933	3.933	0.000	65	313223	200.0	206.4	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	86	26934	1000.0	1000.0	
74 1,4-Dioxane	88	3.994	3.988	0.006	33	99056	4000.0	3950.0	
75 Methyl methacrylate	100	4.006	4.000	0.006	81	248218	400.0	443.9	
76 n-Propyl acetate	43	4.085	4.085	0.000	96	476273	200.0	208.8	
77 Dichlorobromomethane	83	4.116	4.116	0.000	99	692440	200.0	208.4	
78 2-Nitropropane	41	4.372	4.366	0.006	97	186422	400.0	426.4	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	94	191176	200.5	206.9	
80 Epichlorohydrin	57	4.524	4.524	0.000	99	775153	4000.0	4338.7	
81 cis-1,3-Dichloropropene	75	4.616	4.610	0.006	90	788654	200.0	201.5	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	94	1573507	1000.0	1070.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.908	4.902	0.006	99	443860	50.0	49.6	
84 Toluene	91	4.981	4.982	-0.001	93	2056475	200.0	198.4	
85 trans-1,3-Dichloropropene	75	5.292	5.286	0.006	95	725911	200.0	206.6	
86 Ethyl methacrylate	69	5.481	5.475	0.006	85	534485	200.0	213.5	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	93	344435	200.0	195.3	
88 Tetrachloroethene	166	5.640	5.640	0.000	97	586860	200.0	210.1	
89 1,3-Dichloropropane	76	5.701	5.695	0.006	90	696008	200.0	205.0	
90 2-Hexanone	43	5.890	5.884	0.006	92	1086115	1000.0	1086.2	
91 Chlorodibromomethane	129	5.975	5.975	0.000	96	554582	200.0	213.3	
92 Ethylene Dibromide	107	6.085	6.085	0.000	99	460707	200.0	199.3	
93 n-Butyl acetate	43	6.115	6.116	-0.001	98	486790	200.0	198.8	
* 94 Chlorobenzene-d5	117	6.749	6.743	0.006	83	350229	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	96	1318475	200.0	199.6	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	96	503909	200.0	201.3	
97 Ethylbenzene	106	6.993	6.993	0.000	98	685577	200.0	197.3	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	828039	200.0	192.5	
99 o-Xylene	106	7.743	7.743	0.000	94	776857	200.0	194.0	
100 Styrene	104	7.774	7.774	0.000	92	1288755	200.0	201.0	
101 n-Butyl acrylate	73	7.871	7.865	0.006	98	297739	200.0	217.3	
102 Bromoform	173	7.987	7.987	0.000	96	352412	200.0	206.2	
103 Amyl acetate (mixed isomers)	43	8.261	8.255	0.006	91	543967	200.0	213.0	
104 Isopropylbenzene	105	8.347	8.341	0.006	96	1984132	200.0	198.9	
$ 105 4-Bromofluorobenzene	174	8.529	8.530	-0.001	90	139025	50.0	48.2	
106 Bromobenzene	156	8.706	8.700	0.006	93	529463	200.0	208.3	
107 1,1,2,2-Tetrachloroethane	83	8.865	8.859	0.006	95	497130	200.0	210.4	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	83	150267	200.0	210.4	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	97	133645	200.0	208.5	
110 N-Propylbenzene	91	8.999	8.993	0.006	99	2297388	200.0	205.7	
111 2-Chlorotoluene	91	9.054	9.048	0.006	96	1300188	200.0	201.3	
112 4-Ethyltoluene	105	9.194	9.194	0.000	98	1772276	200.0	203.9	
113 4-Chlorotoluene	91	9.243	9.237	0.006	97	1336684	200.0	192.0	
114 1,3,5-Trimethylbenzene	105	9.316	9.310	0.006	93	1431680	200.0	203.6	
115 Butyl Methacrylate	87	9.627	9.621	0.006	85	515623	200.0	215.6	
116 tert-Butylbenzene	119	9.816	9.810	0.006	91	1226829	200.0	201.6	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	97	1437197	200.0	207.0	
118 sec-Butylbenzene	105	10.176	10.176	0.000	99	1737373	200.0	208.8	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	96	854373	200.0	203.7	
* 120 1,4-Dichlorobenzene-d4	152	10.383	10.377	0.006	95	156444	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.419	10.414	0.005	95	868667	200.0	201.5	
122 4-Isopropyltoluene	119	10.462	10.456	0.006	94	1451207	200.0	208.2	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	98	1412940	200.0	208.4	
124 Benzyl chloride	91	10.688	10.682	0.006	99	890482	200.0	210.0	
125 2,3-Dihydroindene	117	10.840	10.834	0.006	90	1420352	200.0	211.2	
126 1,2-Dichlorobenzene	146	11.005	10.999	0.006	96	826674	200.0	218.4	
127 p-Diethylbenzene	119	11.108	11.109	-0.001	93	726180	200.0	219.3	
128 n-Butylbenzene	92	11.139	11.139	0.000	95	700118	200.0	216.1	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	94	101654	200.0	202.2	
130 1,2,4,5-Tetramethylbenzene	119	12.139	12.133	0.006	97	1150853	200.0	221.7	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	94	457811	200.0	213.1	
132 1,2,4-Trichlorobenzene	180	12.949	12.950	-0.001	94	397316	200.0	222.5	
133 Hexachlorobutadiene	225	13.151	13.151	0.000	57	166568	200.0	219.5	
134 Naphthalene	128	13.151	13.151	0.000	99	1008833	200.0	220.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	96	317747	200.0	230.4	
S 136 1,2-Dichloroethene, Total	100				0		400.0	406.7	
S 137 Xylenes, Total	100				0		400.0	386.5	
S 140 Total BTEX	1				0		1000.0	982.2	
S 139 1,3-Dichloropropene, Total	1				0		400.0	408.0	
S 138 Total 1,2-dichloroethene	1				0			406.7	

Reagents:

ACROLEIN W_00112	Amount Added:	20.00	Units: uL	
GAS Hi_00370	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00102	Amount Added:	20.00	Units: uL	
MIX I Hi_00129	Amount Added:	20.00	Units: uL	
Ethanol mix_00043	Amount Added:	20.00	Units: uL	
8FreonHi_00023	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:28:41 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38700.D

Injection Date: 04-Sep-2020 14:37:49 Instrument ID: CVOAMS15

Lims ID: STD200

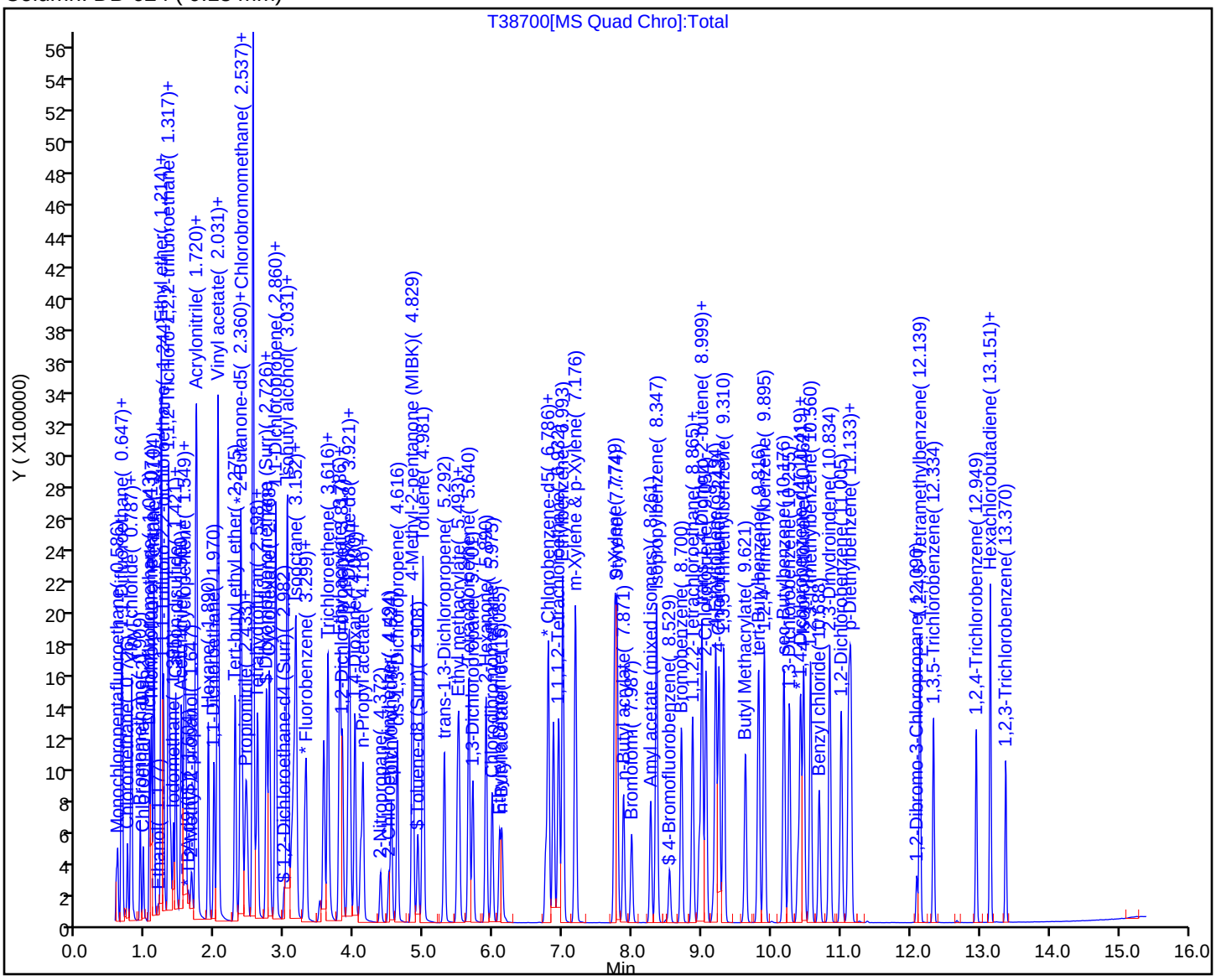
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Sep-2020 15:01:54 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0116301-010
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:28:53 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: starzecm Date: 04-Sep-2020 15:36:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	94	234583	500.0	559.3	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	92	605257	500.0	554.9	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	78	598342	500.0	497.1	
4 Dichlorodifluoromethane	85	0.647	0.653	-0.006	99	1935652	500.0	575.8	
5 Chlorodifluoromethane	67	0.653	0.659	-0.006	84	249110	500.0	561.0	
6 Chloromethane	50	0.726	0.726	0.000	99	1103505	500.0	596.9	
7 Vinyl chloride	62	0.769	0.769	0.000	99	1357477	500.0	545.2	
8 Butadiene	54	0.787	0.787	0.000	93	1181606	500.0	564.4	
9 Bromomethane	94	0.909	0.909	0.000	99	931075	500.0	738.6	
10 Chloroethane	64	0.952	0.952	0.000	99	782000	500.0	526.5	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	99	1968166	500.0	503.6	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	99	2168538	500.0	547.9	
13 Pentane	72	1.104	1.110	-0.006	94	395854	1000.0	1135.5	
14 Ethanol	45	1.177	1.171	0.006	94	112468	20000	19940	M
15 Ethyl ether	59	1.208	1.208	0.000	54	809240	500.0	516.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	87	1189643	500.0	518.6	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	81	964931	500.0	547.1	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	95	1750396	500.0	511.7	
19 Acrolein	56	1.269	1.269	0.000	76	104267	400.0	421.7	
20 1,1-Dichloroethene	96	1.318	1.318	0.000	96	1096741	500.0	496.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	86	1296793	500.0	543.5	
22 Acetone	43	1.348	1.348	0.000	87	1340870	2500.0	2508.0	
23 Iodomethane	142	1.391	1.391	0.000	99	1141499	500.0	935.0	
24 Carbon disulfide	76	1.421	1.421	0.000	98	3361012	500.0	472.7	
25 Isopropyl alcohol	45	1.439	1.427	0.012	59	530450	5000.0	4974.3	
26 Acetonitrile	40	1.494	1.494	0.000	82	538353	5000.0	4631.5	
27 3-Chloro-1-propene	76	1.500	1.501	-0.001	94	643273	500.0	452.7	
28 Methyl acetate	43	1.519	1.519	0.000	97	1196436	1000.0	987.1	
29 Cyclopentene	67	1.543	1.543	0.000	97	2604712	500.0	520.9	
30 Methylene Chloride	84	1.567	1.568	-0.001	83	1148212	500.0	472.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.610	1.598	0.012	96	35420	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.659	1.647	0.012	98	927064	5000.0	4226.1	
33 Acrylonitrile	53	1.714	1.708	0.006	94	3208340	5000.0	4981.5	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	83	1243634	500.0	504.7	
35 Methyl tert-butyl ether	73	1.732	1.732	0.000	95	3036522	500.0	494.1	
36 Hexane	57	1.891	1.891	0.000	89	1336922	500.0	534.2	
37 1,1-Dichloroethane	63	1.976	1.970	0.006	99	1858164	500.0	465.4	
38 Vinyl acetate	86	2.019	2.019	0.000	99	463305	1000.0	1119.8	
39 2-Chloro-1,3-butadiene	88	2.037	2.031	0.006	77	1191332	500.0	520.8	
40 Isopropyl ether	45	2.037	2.031	0.006	82	2805021	500.0	492.7	
41 Tert-butyl ethyl ether	59	2.281	2.275	0.006	90	3015632	500.0	503.1	
* 42 2-Butanone-d5	46	2.348	2.336	0.012	39	196252	250.0	250.0	
44 2,2-Dichloropropane	97	2.360	2.354	0.006	78	417002	500.0	486.5	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	97	1334354	500.0	483.1	
45 2-Butanone (MEK)	43	2.384	2.378	0.006	98	1834163	2500.0	2323.7	
46 Propionitrile	54	2.433	2.421	0.012	93	1216112	5000.0	4516.5	a
47 Ethyl acetate	70	2.445	2.439	0.006	99	202010	1000.0	1000.0	
48 Methyl acrylate	55	2.464	2.458	0.006	97	1069212	500.0	592.7	
49 Chlorobromomethane	128	2.537	2.531	0.006	55	637084	500.0	481.3	
50 Methacrylonitrile	67	2.549	2.531	0.018	87	4210590	5000.0	5052.6	
51 Tetrahydrofuran	72	2.579	2.574	0.005	82	263878	1000.0	1038.8	
52 Chloroform	83	2.604	2.598	0.006	100	2112555	500.0	480.0	
$ 53 Dibromofluoromethane (Surr)	113	2.726	2.720	0.006	32	132307	50.0	49.2	
54 1,1,1-Trichloroethane	97	2.732	2.726	0.006	97	2006798	500.0	489.0	
55 Cyclohexane	84	2.768	2.769	-0.001	86	1744998	500.0	533.2	
56 Carbon tetrachloride	117	2.860	2.860	0.000	98	1804842	500.0	521.6	
57 1,1-Dichloropropene	75	2.866	2.860	0.006	96	1693561	500.0	493.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	97	134157	50.0	49.4	
59 Isobutyl alcohol	43	3.031	3.019	0.012	39	836342	12500	12701	
60 Benzene	78	3.031	3.025	0.006	96	4546661	500.0	501.3	
61 1,2-Dichloroethane	62	3.049	3.043	0.006	71	1452143	500.0	475.0	
62 Isooctane	57	3.122	3.116	0.006	97	2374930	500.0	543.1	
63 Isopropyl acetate	61	3.153	3.147	0.006	92	371536	500.0	545.2	
64 Tert-amyl methyl ether	73	3.159	3.153	0.006	81	3041111	500.0	498.7	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	98	460782	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	85	922019	500.0	513.2	
67 Trichloroethene	95	3.616	3.610	0.006	98	1304788	500.0	484.9	
68 n-Butanol	56	3.640	3.628	0.012	83	631005	12500	14086	
69 Ethyl acrylate	55	3.780	3.775	0.006	97	2388271	500.0	519.3	
70 Methylcyclohexane	83	3.793	3.787	0.006	85	1777620	500.0	536.1	
71 1,2-Dichloropropane	63	3.823	3.817	0.006	88	1045500	500.0	490.8	
72 Dibromomethane	93	3.933	3.933	0.000	50	716353	500.0	478.4	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	89	29405	1000.0	1000.0	
74 1,4-Dioxane	88	4.000	3.988	0.012	32	252127	10000	9209.2	
75 Methyl methacrylate	100	4.006	4.000	0.006	81	609144	1000.0	1104.1	
76 n-Propyl acetate	43	4.091	4.085	0.006	96	1178918	500.0	523.8	
77 Dichlorobromomethane	83	4.122	4.116	0.006	99	1618126	500.0	493.7	
78 2-Nitropropane	41	4.378	4.366	0.012	96	459432	1000.0	1065.0	
79 2-Chloroethyl vinyl ether	63	4.494	4.488	0.006	94	483492	501.2	492.7	
80 Epichlorohydrin	57	4.536	4.524	0.012	99	1827552	10000	10223	
81 cis-1,3-Dichloropropene	75	4.616	4.610	0.006	90	1860391	500.0	495.8	
82 4-Methyl-2-pentanone (MIBK)	43	4.835	4.829	0.006	94	3737292	2500.0	2539.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.908	4.902	0.006	99	428004	50.0	49.9	
84 Toluene	91	4.988	4.982	0.006	94	4787752	500.0	481.8	
85 trans-1,3-Dichloropropene	75	5.292	5.286	0.006	95	1711158	500.0	508.0	
86 Ethyl methacrylate	69	5.481	5.475	0.006	86	1294075	500.0	539.4	
87 1,1,2-Trichloroethane	83	5.506	5.500	0.006	93	816679	500.0	483.3	
88 Tetrachloroethene	166	5.646	5.640	0.006	98	1381532	500.0	516.0	
89 1,3-Dichloropropane	76	5.701	5.695	0.006	90	1580104	500.0	485.5	
90 2-Hexanone	43	5.896	5.884	0.012	93	2601241	2500.0	2600.0	
91 Chlorodibromomethane	129	5.981	5.975	0.006	97	1286230	500.0	516.2	
92 Ethylene Dibromide	107	6.091	6.085	0.006	99	1097442	500.0	495.4	
93 n-Butyl acetate	43	6.122	6.116	0.006	97	1184736	500.0	504.7	
* 94 Chlorobenzene-d5	117	6.749	6.743	0.006	83	335676	50.0	50.0	
95 Chlorobenzene	112	6.792	6.786	0.006	96	3042390	500.0	480.5	
96 1,1,1,2-Tetrachloroethane	131	6.938	6.932	0.006	96	1131580	500.0	471.6	
97 Ethylbenzene	106	6.999	6.993	0.006	98	1583492	500.0	475.5	
98 m-Xylene & p-Xylene	106	7.182	7.176	0.006	0	1910159	500.0	463.4	
99 o-Xylene	106	7.749	7.743	0.006	94	1837068	500.0	478.6	
100 Styrene	104	7.780	7.774	0.006	93	3072989	500.0	500.1	
101 n-Butyl acrylate	73	7.871	7.865	0.006	98	731515	500.0	557.1	
102 Bromoform	173	7.987	7.987	0.000	96	861204	500.0	525.8	
103 Amyl acetate (mixed isomers)	43	8.261	8.255	0.006	92	1326439	500.0	486.6	
104 Isopropylbenzene	105	8.347	8.341	0.006	96	4639864	500.0	485.4	
$ 105 4-Bromofluorobenzene	174	8.536	8.530	0.006	91	136512	50.0	49.4	
106 Bromobenzene	156	8.706	8.700	0.006	94	1284756	500.0	473.6	
107 1,1,2,2-Tetrachloroethane	83	8.865	8.859	0.006	95	1207452	500.0	478.7	
108 1,2,3-Trichloropropane	110	8.871	8.865	0.006	84	378042	500.0	495.9	
109 trans-1,4-Dichloro-2-butene	53	8.962	8.956	0.006	97	337260	500.0	492.7	
110 N-Propylbenzene	91	9.005	8.993	0.012	99	5543741	500.0	465.1	
111 2-Chlorotoluene	91	9.060	9.048	0.012	96	3053965	500.0	443.0	
112 4-Ethyltoluene	105	9.200	9.194	0.006	98	4442949	500.0	478.8	
113 4-Chlorotoluene	91	9.249	9.237	0.012	97	3662362	500.0	492.8	
114 1,3,5-Trimethylbenzene	105	9.316	9.310	0.006	93	3459100	500.0	461.0	
115 Butyl Methacrylate	87	9.627	9.621	0.006	85	1355997	500.0	531.3	
116 tert-Butylbenzene	119	9.816	9.810	0.006	91	3038694	500.0	467.9	
117 1,2,4-Trimethylbenzene	105	9.901	9.895	0.006	97	3553591	500.0	479.6	
118 sec-Butylbenzene	105	10.182	10.176	0.006	99	4304765	500.0	484.7	
119 1,3-Dichlorobenzene	146	10.261	10.255	0.006	96	2147245	500.0	479.6	
* 120 1,4-Dichlorobenzene-d4	152	10.383	10.377	0.006	95	166969	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.420	10.414	0.006	95	2175817	500.0	473.0	
122 4-Isopropyltoluene	119	10.468	10.456	0.012	93	3648625	500.0	490.4	
123 1,2,3-Trimethylbenzene	105	10.566	10.560	0.006	98	3550936	500.0	490.8	
124 Benzyl chloride	91	10.688	10.682	0.006	99	2289900	500.0	505.9	
125 2,3-Dihydroindene	117	10.840	10.834	0.006	90	3595273	500.0	501.0	
126 1,2-Dichlorobenzene	146	11.005	10.999	0.006	96	2058799	500.0	509.7	
127 p-Diethylbenzene	119	11.114	11.109	0.005	91	1834204	500.0	518.9	a
128 n-Butylbenzene	92	11.145	11.139	0.006	97	1743055	500.0	504.0	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	95	276306	500.0	500.6	
130 1,2,4,5-Tetramethylbenzene	119	12.139	12.133	0.006	96	3004971	500.0	542.4	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	97	1197238	500.0	522.0	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	91	1040011	500.0	545.7	
133 Hexachlorobutadiene	225	13.151	13.151	0.000	57	425255	500.0	525.6	
134 Naphthalene	128	13.151	13.151	0.000	99	2662331	500.0	544.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	94	834229	500.0	566.9	
S 136 1,2-Dichloroethene, Total	100				0		1000.0	987.7	
S 137 Xylenes, Total	100				0		1000.0	942.0	
S 140 Total BTEX	1				0		2500.0	2400.7	
S 139 1,3-Dichloropropene, Total	1				0		1000.0	1003.8	
S 138 Total 1,2-dichloroethene	1				0			987.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

Ethanol mix_00043	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00102	Amount Added:	50.00	Units: uL	
MIX I Hi_00129	Amount Added:	50.00	Units: uL	
GAS Hi_00370	Amount Added:	50.00	Units: uL	
8FreonHi_00023	Amount Added:	50.00	Units: uL	
ACROLEIN W_00112	Amount Added:	40.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:28:58 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Injection Date: 04-Sep-2020 15:01:54 Instrument ID: CVOAMS15

Lims ID: STD500

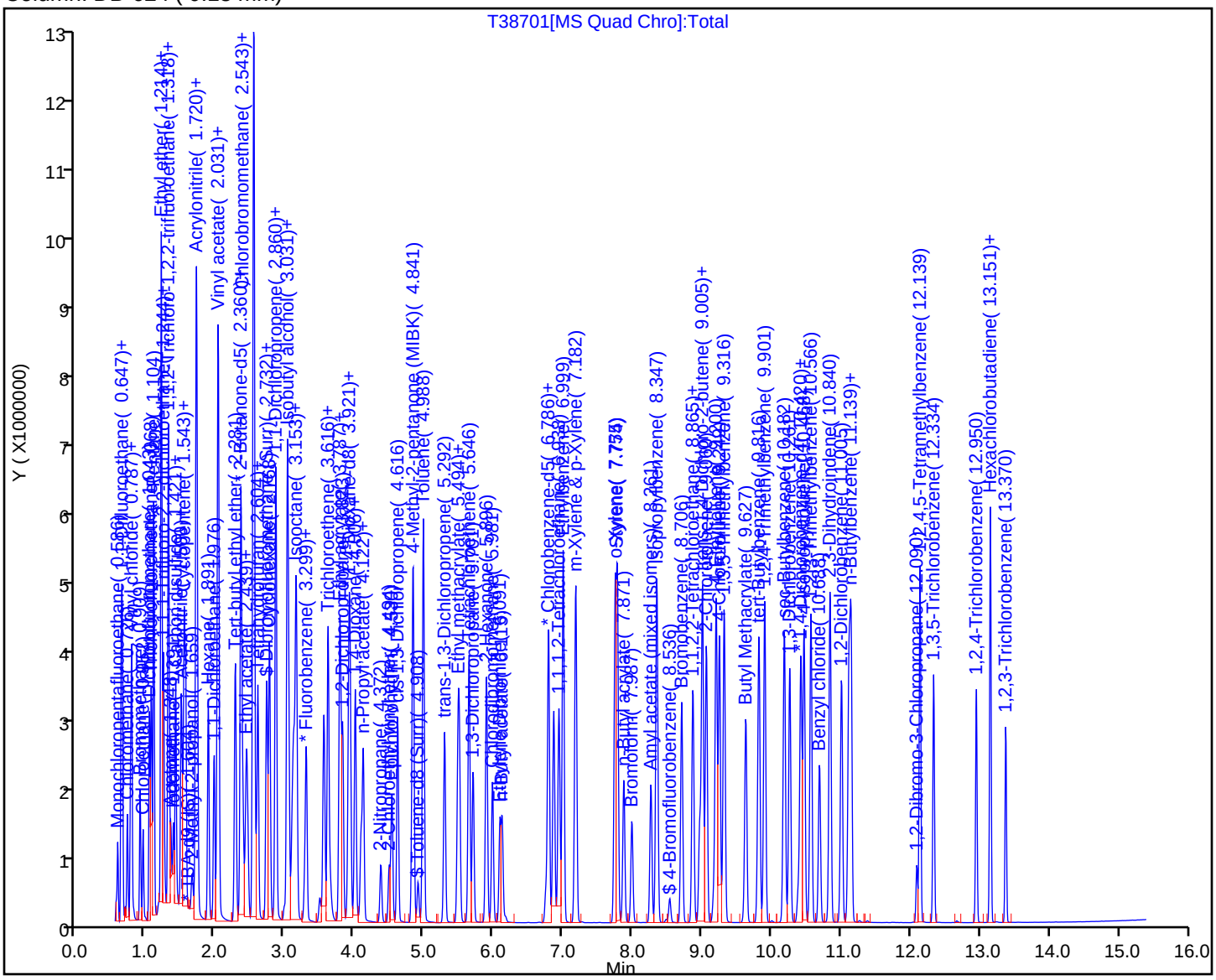
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

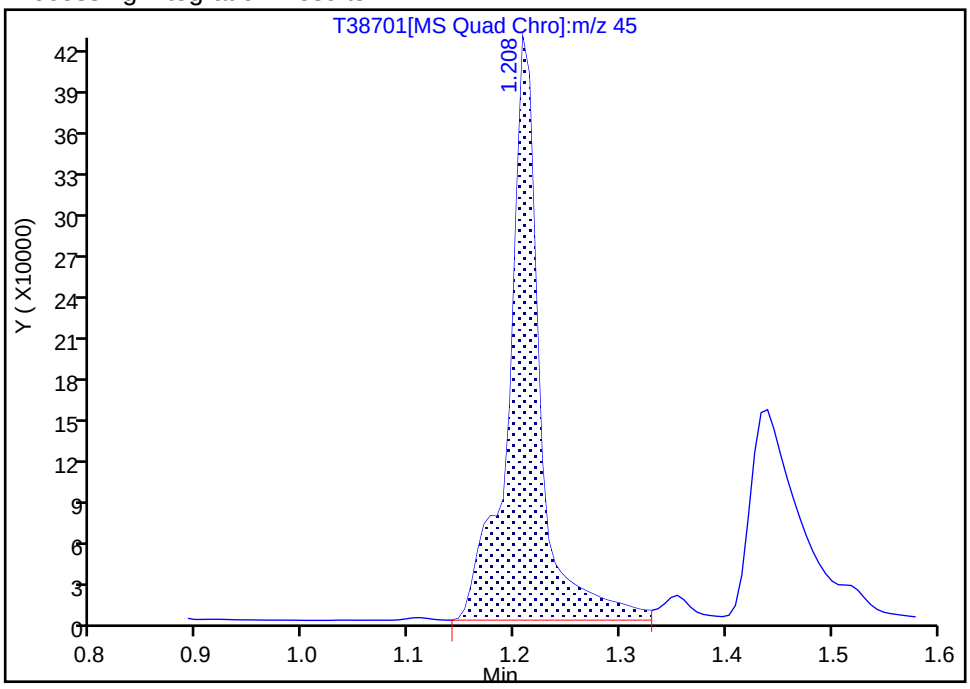
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D
Injection Date: 04-Sep-2020 15:01:54 Instrument ID: CVOAMS15
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

14 Ethanol, CAS: 64-17-5

Signal: 1

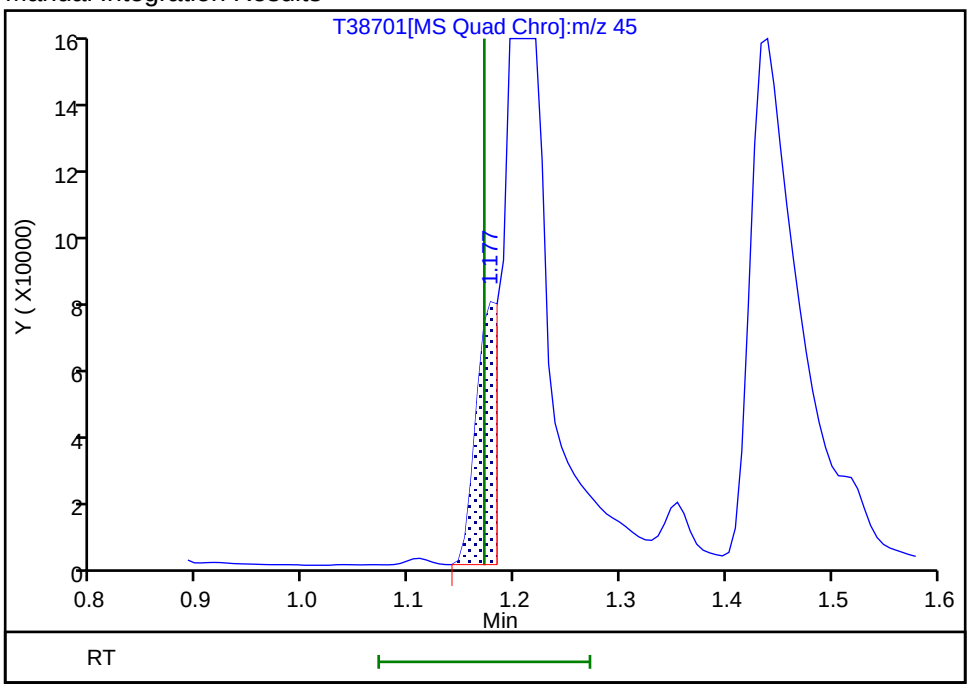
Processing Integration Results

RT: 1.21
Area: 878686
Amount: 20020
Amount Units: ug/l



Manual Integration Results

RT: 1.18
Area: 112468
Amount: 19940
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:27:56
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins TestAmerica, Edison

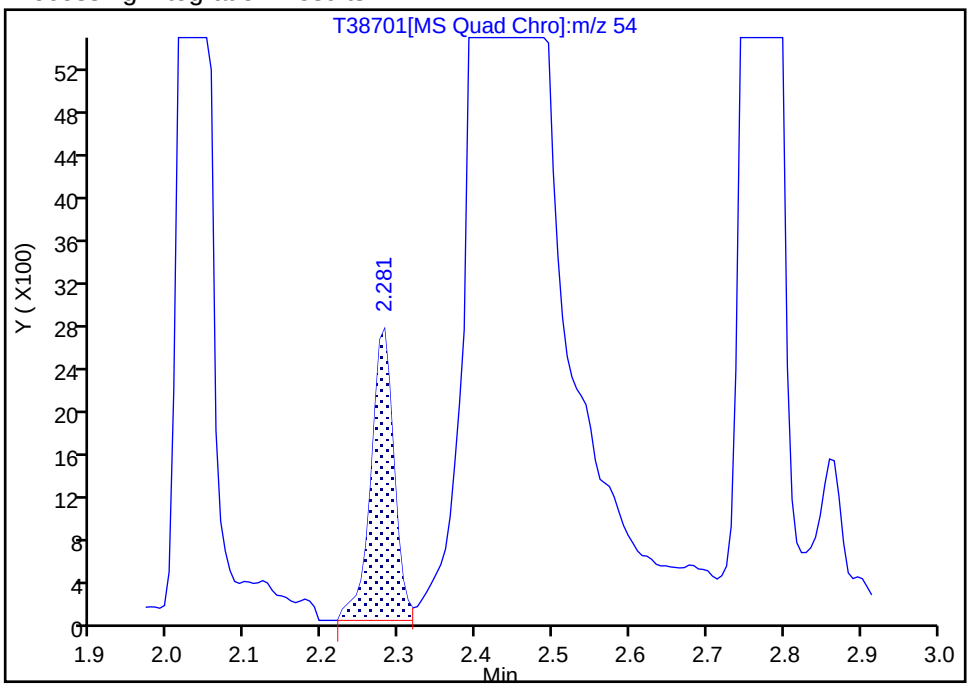
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D
Injection Date: 04-Sep-2020 15:01:54 Instrument ID: CVOAMS15
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

46 Propionitrile, CAS: 107-12-0

Signal: 1

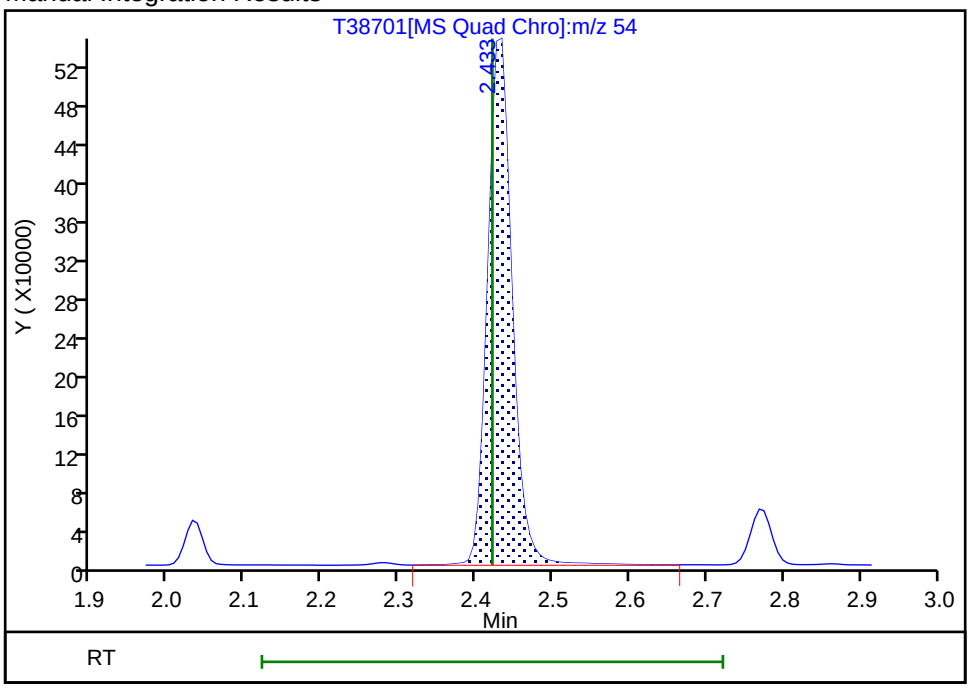
Processing Integration Results

RT: 2.28
Area: 5662
Amount: 24.126753
Amount Units: ug/l



Manual Integration Results

RT: 2.43
Area: 1216112
Amount: 4516.4713
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:28:09
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

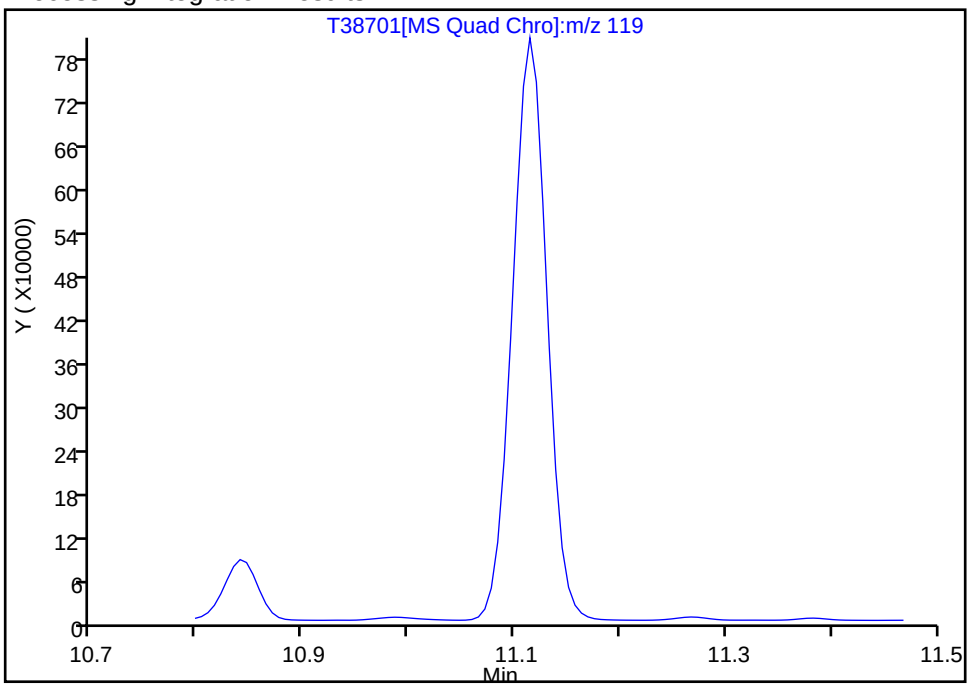
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D
Injection Date: 04-Sep-2020 15:01:54 Instrument ID: CVOAMS15
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

127 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

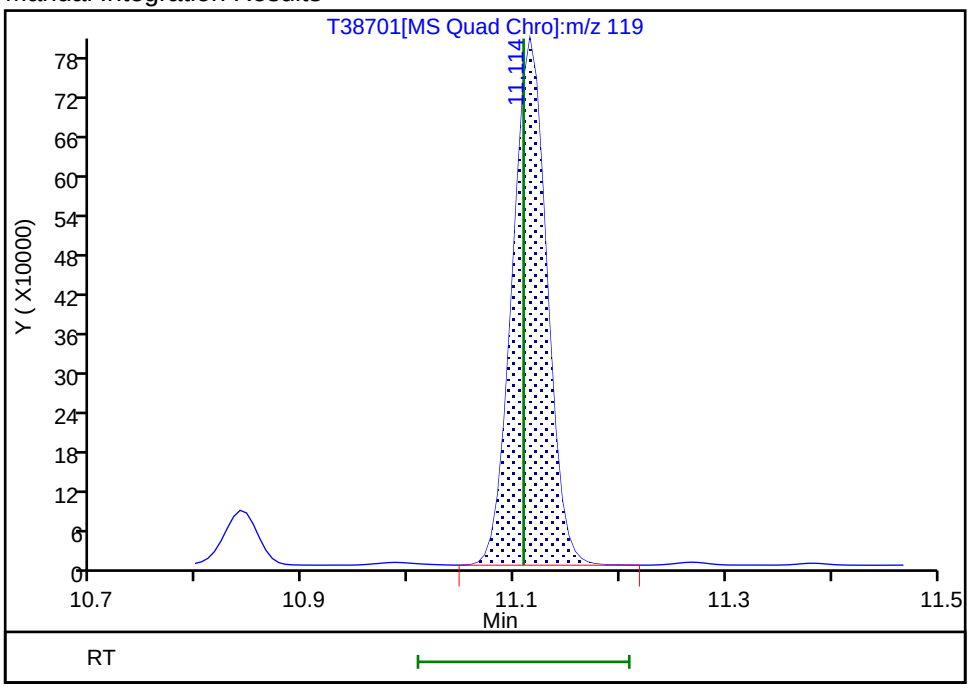
Not Detected
Expected RT: 11.11

Processing Integration Results



Manual Integration Results

RT: 11.11
Area: 1834204
Amount: 518.9429
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 10:28:30
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: ICV 460-721958/17 Calibration Date: 09/04/2020 19:36

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38708.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monochloropentafluoroethane	Ave	0.0455	0.0186		8.17	20.0	-59.1*	30.0
1,1-Difluoroethane	Ave	0.1184	0.1038		17.5	20.0	-12.3	30.0
Chlorotrifluoroethene	Qua2		0.0787		16.2	20.0	-19.2	30.0
Dichlorodifluoromethane	Ave	0.3648	0.4258	0.1000	23.3	20.0	16.7	30.0
Chlorodifluoromethane	Ave	0.0482	0.0445		18.5	20.0	-7.6	30.0
Chloromethane	Ave	0.2006	0.2111	0.1000	21.0	20.0	5.2	30.0
Vinyl chloride	Ave	0.2702	0.2983	0.1000	22.1	20.0	10.4	30.0
Butadiene	Ave	0.2272	0.2306		20.3	20.0	1.5	30.0
Bromomethane	Ave	1.606	1.881	0.1000	23.4	20.0	17.1	30.0
Chloroethane	Ave	1.892	2.084	0.1000	22.0	20.0	10.2	30.0
Dichlorofluoromethane	Ave	0.4241	0.4193		19.8	20.0	-1.1	30.0
Trichlorofluoromethane	Ave	0.4294	0.4858	0.1000	22.6	20.0	13.1	30.0
Pentane	Ave	0.0378	0.0440		46.5	40.0	16.2	30.0
Ethanol	QuaF		0.3102		869	800	8.6	30.0
Ethyl ether	Ave	0.1702	0.1696		19.9	20.0	-0.3	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2489	0.2551		20.5	20.0	2.5	30.0
2-Methyl-1,3-butadiene	Ave	0.1914	0.2223		23.2	20.0	16.1	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.3712	0.3775		20.3	20.0	1.7	30.0
Acrolein	Ave	6.980	3.986		22.9	40.1	-42.9*	30.0
1,1-Dichloroethene	Ave	0.2398	0.2619	0.1000	21.8	20.0	9.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2589	0.2929	0.1000	22.6	20.0	13.1	30.0
Acetone	Ave	0.6811	0.6610	0.0500	97.0	100	-3.0	30.0
Iodomethane	Ave	0.1325	0.0297		4.48	20.0	-77.6*	30.0
Carbon disulfide	Ave	0.7715	0.8329	0.1000	21.6	20.0	8.0	30.0
Isopropyl alcohol	Ave	3.011	3.444		229	200	14.4	30.0
Acetonitrile	Ave	0.1481	0.1540		208	200	4.0	30.0
Allyl chloride	Ave	0.1542	0.1691		21.9	20.0	9.6	30.0
Methyl acetate	Ave	0.1315	0.1167	0.1000	35.5	40.0	-11.3	30.0
Cyclopentene	Ave	0.5426	0.6139		22.6	20.0	13.1	30.0
Methylene Chloride	Ave	0.2639	0.2701	0.1000	20.5	20.0	2.3	30.0
2-Methyl-2-propanol	Ave	6.193	7.045		227	200	13.7	30.0
Acrylonitrile	Ave	0.0699	0.0682		195	200	-2.5	30.0
trans-1,2-Dichloroethene	Ave	0.2674	0.2860	0.1000	21.4	20.0	6.9	30.0
Methyl tert-butyl ether	Ave	0.6669	0.6721	0.1000	20.2	20.0	0.8	30.0
Hexane	Ave	0.2716	0.2869		21.1	20.0	5.7	30.0
1,1-Dichloroethane	Ave	0.4332	0.4516	0.2000	20.9	20.0	4.3	30.0
Vinyl acetate	Ave	0.5270	0.5729		43.5	40.0	8.7	30.0
2-Chloro-1,3-butadiene	Ave	0.2482	0.2658		21.4	20.0	7.1	30.0
Isopropyl ether	Ave	0.6178	0.6550		21.2	20.0	6.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: ICV 460-721958/17 Calibration Date: 09/04/2020 19:36

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38708.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tert-butyl ethyl ether	Ave	0.6505	0.6651		20.5	20.0	2.3	30.0
2,2-Dichloropropane	Ave	0.0930	0.0914		19.6	20.0	-1.8	30.0
cis-1,2-Dichloroethene	Ave	0.2997	0.3198	0.1000	21.3	20.0	6.7	30.0
2-Butanone (MEK)	Ave	1.005	1.001	0.0500	99.6	100	-0.4	30.0
Propionitrile	Ave	7.602	8.234		217	200	8.3	30.0
Ethyl acetate	QuaF		0.2516		38.4	40.0	-4.1	30.0
Methyl acrylate	Ave	0.1958	0.1935		19.8	20.0	-1.2	30.0
Chlorobromomethane	Ave	0.1436	0.1537		21.4	20.0	7.0	30.0
Methacrylonitrile	Ave	0.0904	0.0896		198	200	-0.9	30.0
Tetrahydrofuran	Ave	0.3236	0.3543		43.8	40.0	9.5	30.0
Chloroform	Ave	0.4775	0.4922	0.2000	20.6	20.0	3.1	30.0
1,1,1-Trichloroethane	Ave	0.4453	0.4843	0.1000	21.7	20.0	8.7	30.0
Cyclohexane	Ave	0.3551	0.3846	0.1000	21.7	20.0	8.3	30.0
Carbon tetrachloride	Ave	0.3755	0.4158	0.1000	22.1	20.0	10.7	30.0
1,1-Dichloropropene	Ave	0.3726	0.3751		20.1	20.0	0.7	30.0
Isobutyl alcohol	Ave	1.859	1.918		516	500	3.2	30.0
Benzene	Ave	1.351	1.372	0.5000	20.3	20.0	1.6	30.0
1,2-Dichloroethane	Ave	0.3318	0.3346	0.1000	20.2	20.0	0.9	30.0
2,2,4-Trimethylpentane	Ave	0.4745	0.4990		21.0	20.0	5.2	30.0
Isopropyl acetate	Ave	0.0740	0.0779		21.1	20.0	5.3	30.0
Tert-amyl methyl ether	Ave	0.6617	0.6852		20.7	20.0	3.6	30.0
n-Heptane	Ave	0.1950	0.1854		19.0	20.0	-4.9	30.0
Trichloroethene	Ave	0.2920	0.2989	0.2000	20.5	20.0	2.4	30.0
n-Butanol	Ave	1.265	1.412		558	500	11.6	30.0
Ethyl acrylate	Ave	0.4990	0.5125		20.5	20.0	2.7	30.0
Methylcyclohexane	Ave	0.3598	0.3939	0.1000	21.9	20.0	9.5	30.0
1,2-Dichloropropane	Ave	0.2312	0.2489	0.1000	21.5	20.0	7.7	30.0
Dibromomethane	Ave	0.1625	0.1822		22.4	20.0	12.1	30.0
1,4-Dioxane	Ave	0.9311	1.098		472	400	17.9	30.0
Methyl methacrylate	Ave	0.0599	0.0683		45.6	40.0	14.0	30.0
n-Propyl acetate	Ave	0.2442	0.2449		20.1	20.0	0.3	30.0
Dichlorobromomethane	Ave	0.3557	0.3866	0.2000	21.7	20.0	8.7	30.0
2-Nitropropane	Ave	0.0468	0.0446		38.1	40.0	-4.8	30.0
2-Chloroethyl vinyl ether	Qua2		0.0816		17.8	20.0	-11.0	30.0
Epichlorohydrin	Ave	0.2277	0.1871		16.4	20.0	-17.8	30.0
cis-1,3-Dichloropropene	Ave	0.5589	0.5524	0.2000	19.8	20.0	-1.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.874	1.928	0.0500	103	100	2.9	30.0
Toluene	Ave	1.480	1.445	0.4000	19.5	20.0	-2.4	30.0
trans-1,3-Dichloropropene	Ave	0.5017	0.4950	0.1000	19.7	20.0	-1.4	30.0
Ethyl methacrylate	Ave	0.3574	0.3603		20.2	20.0	0.8	30.0
1,1,2-Trichloroethane	Ave	0.2517	0.2523	0.1000	20.0	20.0	0.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: ICV 460-721958/17 Calibration Date: 09/04/2020 19:36

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38708.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloroethene	Ave	0.3988	0.4264	0.2000	21.4	20.0	6.9	30.0
1,3-Dichloropropane	Ave	0.4848	0.4973		20.5	20.0	2.6	30.0
2-Hexanone	Ave	1.274	1.388	0.0500	109	100	8.9	30.0
Chlorodibromomethane	Ave	0.3712	0.4090	0.1000	22.0	20.0	10.2	30.0
Ethylene Dibromide	Ave	0.3300	0.3465	0.1000	21.0	20.0	5.0	30.0
n-Butyl acetate	Ave	0.3496	0.3369		19.3	20.0	-3.6	30.0
Chlorobenzene	Ave	0.9432	0.999	0.5000	21.2	20.0	5.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3574	0.3728		20.9	20.0	4.3	30.0
Ethylbenzene	Ave	0.4960	0.5359	0.1000	21.6	20.0	8.1	30.0
m-Xylene & p-Xylene	Ave	0.6140	0.6328	0.1000	20.6	20.0	3.1	30.0
o-Xylene	Ave	0.5718	0.5822	0.3000	20.4	20.0	1.8	30.0
Styrene	Ave	0.9153	0.998	0.3000	21.8	20.0	9.0	30.0
n-Butyl acrylate	Ave	0.1956	0.2118		21.7	20.0	8.3	30.0
Bromoform	Ave	0.2440	0.2364	0.1000	19.4	20.0	-3.1	30.0
Amyl acetate (mixed isomers)	Ave	0.8163	0.7823		19.2	20.0	-4.2	30.0
Isopropylbenzene	Ave	1.424	1.499	0.1000	21.1	20.0	5.3	30.0
Bromobenzene	Ave	0.8124	0.8347		20.6	20.0	2.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7553	0.7387	0.3000	19.6	20.0	-2.2	30.0
1,2,3-Trichloropropane	Ave	0.2283	0.2207		19.3	20.0	-3.3	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.1878		18.6	20.0	-7.2	30.0
N-Propylbenzene	Ave	3.569	3.673		20.6	20.0	2.9	30.0
2-Chlorotoluene	Ave	2.065	2.146		20.8	20.0	3.9	30.0
4-Ethyltoluene	Ave	2.779	2.914		21.0	20.0	4.9	30.0
4-Chlorotoluene	Ave	2.225	2.253		20.2	20.0	1.2	30.0
1,3,5-Trimethylbenzene	Ave	2.247	2.369		21.1	20.0	5.4	30.0
Butyl Methacrylate	Ave	0.7642	0.7698		20.1	20.0	0.7	30.0
tert-Butylbenzene	Ave	1.945	2.029		20.9	20.0	4.3	30.0
1,2,4-Trimethylbenzene	Ave	2.219	2.320		20.9	20.0	4.6	30.0
sec-Butylbenzene	Ave	2.659	2.819		21.2	20.0	6.0	30.0
1,3-Dichlorobenzene	Ave	1.341	1.344	0.6000	20.0	20.0	0.2	30.0
1,4-Dichlorobenzene	Ave	1.378	1.429	0.5000	20.7	20.0	3.7	30.0
4-Isopropyltoluene	Ave	2.228	2.318		20.8	20.0	4.1	30.0
1,2,3-Trimethylbenzene	Ave	2.167	2.255		20.8	20.0	4.1	30.0
Benzyl chloride	Ave	1.355	1.152		17.0	20.0	-15.0	30.0
Indan	Ave	2.149	2.318		21.6	20.0	7.9	30.0
1,2-Dichlorobenzene	Ave	1.210	1.286	0.4000	21.3	20.0	6.3	30.0
p-Diethylbenzene	Ave	1.058	1.173		22.2	20.0	10.8	30.0
n-Butylbenzene	Ave	1.036	1.065		20.6	20.0	2.8	30.0
1,2-Dibromo-3-Chloropropane	Qua2		0.1356	0.0500	17.5	20.0	-12.7	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.659	1.688		20.3	20.0	1.7	30.0
1,3,5-Trichlorobenzene	Ave	0.6868	0.6960		20.3	20.0	1.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: ICV 460-721958/17 Calibration Date: 09/04/2020 19:36

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38708.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.5708	0.5808	0.2000	20.4	20.0	1.8	30.0
Hexachlorobutadiene	Lin2		0.2542		20.7	20.0	3.3	30.0
Naphthalene	Ave	1.465	1.350		18.4	20.0	-7.8	30.0
1,2,3-Trichlorobenzene	Ave	0.4407	0.4414		20.0	20.0	0.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2917	0.2783		47.7	50.0	-4.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2947	0.2753		46.7	50.0	-6.6	30.0
Toluene-d8 (Surr)	Ave	1.277	1.229		48.1	50.0	-3.8	30.0
4-Bromofluorobenzene	Ave	0.4120	0.3922		47.6	50.0	-4.8	30.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38708.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 04-Sep-2020 19:36:22 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CVOAMS15
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Sep-2020 11:28:53 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1014

First Level Reviewer: baronm Date: 05-Sep-2020 11:26:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	29	3721	20.0	8.17	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	92	20772	20.0	17.5	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	59	15738	20.0	16.2	
4 Dichlorodifluoromethane	85	0.647	0.653	-0.006	100	85201	20.0	23.3	
5 Chlorodifluoromethane	67	0.653	0.659	-0.006	74	8911	20.0	18.5	
6 Chloromethane	50	0.726	0.726	0.000	99	42238	20.0	21.0	
7 Vinyl chloride	62	0.769	0.769	0.000	98	59682	20.0	22.1	
8 Butadiene	54	0.787	0.787	0.000	92	46138	20.0	20.3	
9 Bromomethane	94	0.909	0.909	0.000	99	29622	20.0	23.4	
10 Chloroethane	64	0.952	0.952	0.000	99	32828	20.0	22.0	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	99	83903	20.0	19.8	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	96	97212	20.0	22.6	
13 Pentane	72	1.104	1.110	-0.006	94	17593	40.0	46.5	
14 Ethanol	45	1.165	1.171	-0.006	91	7812	800.0	868.5	
15 Ethyl ether	59	1.208	1.208	0.000	53	33935	20.0	19.9	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	81	44473	20.0	23.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	88	51041	20.0	20.5	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	96	75542	20.0	20.3	
19 Acrolein	56	1.269	1.269	0.000	95	5026	40.1	22.9	
20 1,1-Dichloroethene	96	1.311	1.318	-0.007	97	52395	20.0	21.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	80	58612	20.0	22.6	
22 Acetone	43	1.342	1.348	-0.006	87	52053	100.0	97.0	
23 Iodomethane	142	1.391	1.391	0.000	92	5936	20.0	4.48	
24 Carbon disulfide	76	1.421	1.421	0.000	98	166645	20.0	21.6	
25 Isopropyl alcohol	45	1.427	1.427	0.000	30	21682	200.0	228.8	
26 Acetonitrile	40	1.494	1.494	0.000	80	24255	200.0	208.0	
27 3-Chloro-1-propene	76	1.500	1.501	-0.001	92	33827	20.0	21.9	
28 Methyl acetate	43	1.519	1.519	0.000	96	46691	40.0	35.5	
29 Cyclopentene	67	1.543	1.543	0.000	95	122824	20.0	22.6	
30 Methylene Chloride	84	1.567	1.568	-0.001	83	54041	20.0	20.5	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	98	31479	1000.0	1000.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	1.641	1.647	-0.006	98	44351	200.0	227.5	
33 Acrylonitrile	53	1.702	1.708	-0.006	94	136381	200.0	195.1	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	81	57218	20.0	21.4	
35 Methyl tert-butyl ether	73	1.726	1.732	-0.006	96	134481	20.0	20.2	
36 Hexane	57	1.891	1.891	0.000	88	57413	20.0	21.1	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	100	90363	20.0	20.9	
38 Vinyl acetate	86	2.013	2.019	-0.006	99	18046	40.0	43.5	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	78	53183	20.0	21.4	
40 Isopropyl ether	45	2.031	2.031	0.000	83	131052	20.0	21.2	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	90	133079	20.0	20.5	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	86	196887	250.0	250.0	
44 2,2-Dichloropropane	97	2.354	2.354	0.000	79	18282	20.0	19.6	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	98	63981	20.0	21.3	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	97	78843	100.0	99.6	
46 Propionitrile	54	2.415	2.421	-0.006	98	51839	200.0	216.6	
47 Ethyl acetate	70	2.433	2.439	-0.006	98	7927	40.0	38.4	
48 Methyl acrylate	55	2.451	2.458	-0.007	95	38718	20.0	19.8	
49 Chlorobromomethane	128	2.525	2.531	-0.006	54	30745	20.0	21.4	
50 Methacrylonitrile	67	2.525	2.531	-0.006	87	179286	200.0	198.2	
51 Tetrahydrofuran	72	2.567	2.574	-0.007	76	11162	40.0	43.8	
52 Chloroform	83	2.598	2.598	0.000	99	98487	20.0	20.6	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	139207	50.0	47.7	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	85	96900	20.0	21.7	
55 Cyclohexane	84	2.768	2.769	-0.001	86	76946	20.0	21.7	
56 Carbon tetrachloride	117	2.854	2.860	-0.006	97	83190	20.0	22.1	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	97	75045	20.0	20.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	97	137727	50.0	46.7	
59 Isobutyl alcohol	43	3.012	3.019	-0.007	44	30188	500.0	515.9	
60 Benzene	78	3.025	3.025	0.000	95	207335	20.0	20.3	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	70	66948	20.0	20.2	
62 Isooctane	57	3.116	3.116	0.000	95	99852	20.0	21.0	
63 Isopropyl acetate	61	3.140	3.147	-0.007	91	15580	20.0	21.1	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	85	137100	20.0	20.7	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	99	500217	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	83	37105	20.0	19.0	
67 Trichloroethene	95	3.610	3.610	0.000	97	59798	20.0	20.5	
68 n-Butanol	56	3.628	3.628	0.000	46	22219	500.0	558.1	
69 Ethyl acrylate	55	3.774	3.775	0.000	96	102542	20.0	20.5	
70 Methylcyclohexane	83	3.787	3.787	0.000	87	78821	20.0	21.9	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	87	49800	20.0	21.5	
72 Dibromomethane	93	3.927	3.933	-0.006	58	36446	20.0	22.4	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	92	23270	1000.0	1000.0	M
74 1,4-Dioxane	88	3.988	3.988	0.000	29	10218	400.0	471.6	
75 Methyl methacrylate	100	4.000	4.000	0.000	80	27318	40.0	45.6	
76 n-Propyl acetate	43	4.079	4.085	-0.006	96	48995	20.0	20.1	
77 Dichlorobromomethane	83	4.116	4.116	0.000	98	77349	20.0	21.7	
78 2-Nitropropane	41	4.366	4.366	0.000	97	17830	40.0	38.1	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	87	16318	20.0	17.8	
80 Epichlorohydrin	57	4.488	4.524	-0.036	26	2947	20.0	16.4	
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	85	83489	20.0	19.8	
82 4-Methyl-2-pentanone (MIBK)	43	4.823	4.829	-0.006	94	151871	100.0	102.9	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	464220	50.0	48.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Toluene	91	4.975	4.982	-0.007	93	218337	20.0	19.5	
85 trans-1,3-Dichloropropene	75	5.286	5.286	0.000	94	74802	20.0	19.7	
86 Ethyl methacrylate	69	5.475	5.475	0.000	84	54448	20.0	20.2	
87 1,1,2-Trichloroethane	83	5.494	5.500	-0.006	90	38128	20.0	20.0	
88 Tetrachloroethene	166	5.640	5.640	0.000	98	64436	20.0	21.4	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	87	75157	20.0	20.5	
90 2-Hexanone	43	5.884	5.884	0.000	93	109300	100.0	108.9	
91 Chlorodibromomethane	129	5.969	5.975	-0.006	96	61807	20.0	22.0	
92 Ethylene Dibromide	107	6.079	6.085	-0.006	98	52363	20.0	21.0	
93 n-Butyl acetate	43	6.115	6.116	-0.001	97	50918	20.0	19.3	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	83	377825	50.0	50.0	
95 Chlorobenzene	112	6.780	6.786	-0.006	96	151007	20.0	21.2	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	95	56337	20.0	20.9	
97 Ethylbenzene	106	6.993	6.993	0.000	97	80997	20.0	21.6	
98 m-Xylene & p-Xylene	106	7.170	7.176	-0.006	0	95641	20.0	20.6	
99 o-Xylene	106	7.737	7.743	-0.006	93	87988	20.0	20.4	
100 Styrene	104	7.774	7.774	0.000	94	150757	20.0	21.8	
101 n-Butyl acrylate	73	7.865	7.865	0.000	97	32014	20.0	21.7	
102 Bromoform	173	7.981	7.987	-0.006	94	35728	20.0	19.4	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	92	55065	20.0	19.2	
104 Isopropylbenzene	105	8.341	8.341	0.000	95	226491	20.0	21.1	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	91	148171	50.0	47.6	
106 Bromobenzene	156	8.700	8.700	0.000	94	58756	20.0	20.6	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	89	51995	20.0	19.6	
108 1,2,3-Trichloropropane	110	8.859	8.865	-0.006	81	15532	20.0	19.3	
109 trans-1,4-Dichloro-2-butene	53	8.950	8.956	-0.006	87	13218	20.0	18.6	
110 N-Propylbenzene	91	8.993	8.993	0.000	99	258536	20.0	20.6	
111 2-Chlorotoluene	91	9.048	9.048	0.000	95	151020	20.0	20.8	
112 4-Ethyltoluene	105	9.188	9.194	-0.006	97	205132	20.0	21.0	
113 4-Chlorotoluene	91	9.237	9.237	0.000	97	158557	20.0	20.2	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	93	166748	20.0	21.1	
115 Butyl Methacrylate	87	9.621	9.621	0.000	85	54182	20.0	20.1	
116 tert-Butylbenzene	119	9.810	9.810	0.000	91	142844	20.0	20.9	
117 1,2,4-Trimethylbenzene	105	9.889	9.895	-0.006	97	163334	20.0	20.9	
118 sec-Butylbenzene	105	10.176	10.176	0.000	99	198413	20.0	21.2	
119 1,3-Dichlorobenzene	146	10.249	10.255	-0.006	96	94585	20.0	20.0	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	94	175970	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.413	10.414	-0.001	92	100578	20.0	20.7	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	87	163188	20.0	20.8	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	98	158726	20.0	20.8	
124 Benzyl chloride	91	10.682	10.682	0.000	98	81110	20.0	17.0	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	89	163187	20.0	21.6	
126 1,2-Dichlorobenzene	146	10.999	10.999	0.000	96	90512	20.0	21.3	
127 p-Diethylbenzene	119	11.108	11.109	-0.001	89	82533	20.0	22.2	
128 n-Butylbenzene	92	11.139	11.139	0.000	97	74937	20.0	20.6	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	82	9543	20.0	17.5	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	97	118799	20.0	20.3	
131 1,3,5-Trichlorobenzene	180	12.328	12.334	-0.006	95	48990	20.0	20.3	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	40882	20.0	20.4	
133 Hexachlorobutadiene	225	13.145	13.151	-0.006	61	17891	20.0	20.7	
134 Naphthalene	128	13.151	13.151	0.000	99	95016	20.0	18.4	
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	93	31069	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,2-Dichloroethene, Total	100				0		40.0	42.7	
S 137 Xylenes, Total	100				0		40.0	41.0	
S 140 Total BTEX	1				0		100.0	102.4	
S 139 1,3-Dichloropropene, Total	1				0		40.0	39.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8FreonsSS_00023	Amount Added:	20.00	Units: uL	
ACROLEIN SP_00116	Amount Added:	4.00	Units: uL	
8260 SP_00129	Amount Added:	20.00	Units: uL	
GAS C SP_00372	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Sep-2020 11:29:15 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38708.D

Injection Date: 04-Sep-2020 19:36:22 Instrument ID: CVOAMS15

Lims ID: ICV

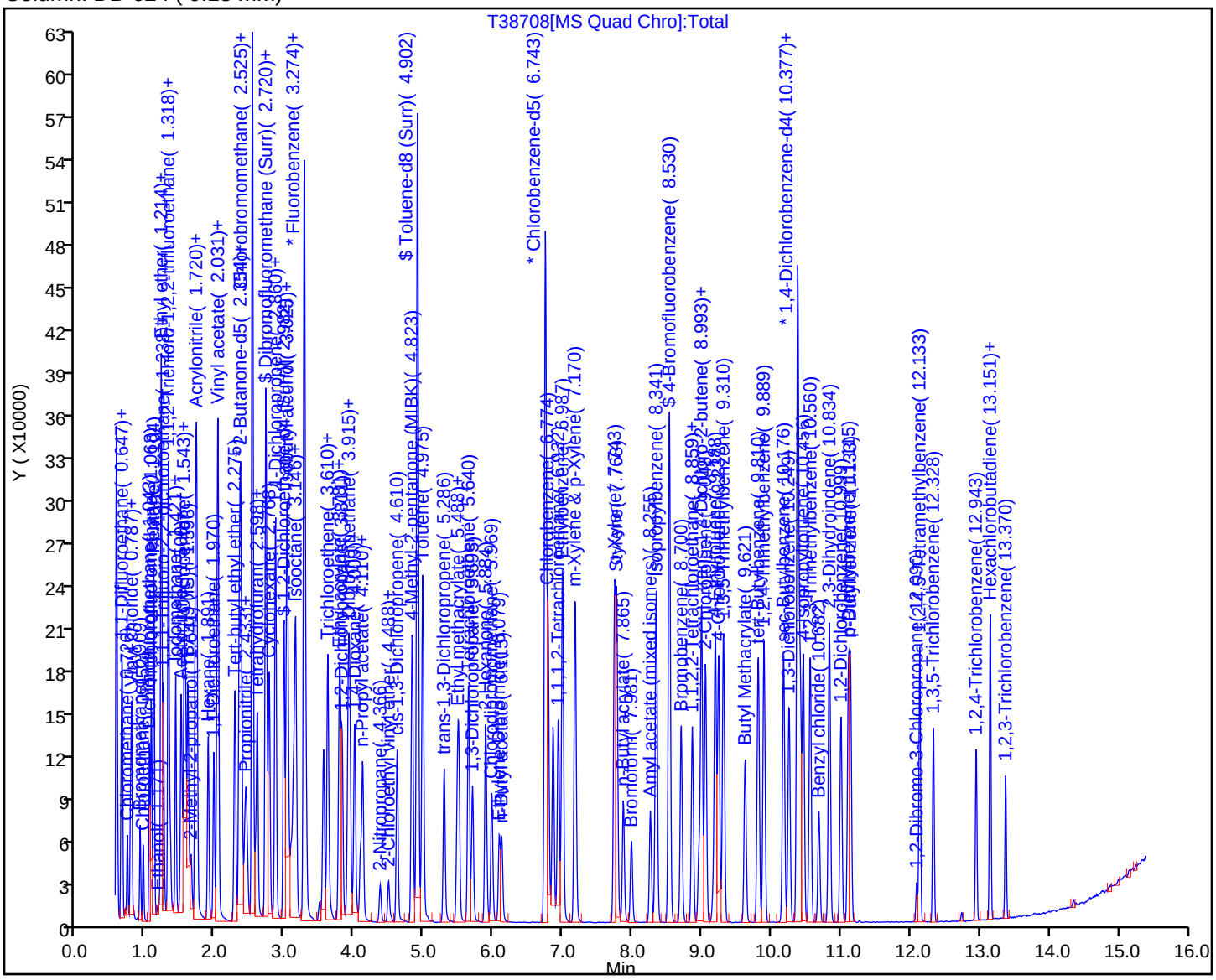
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 17

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

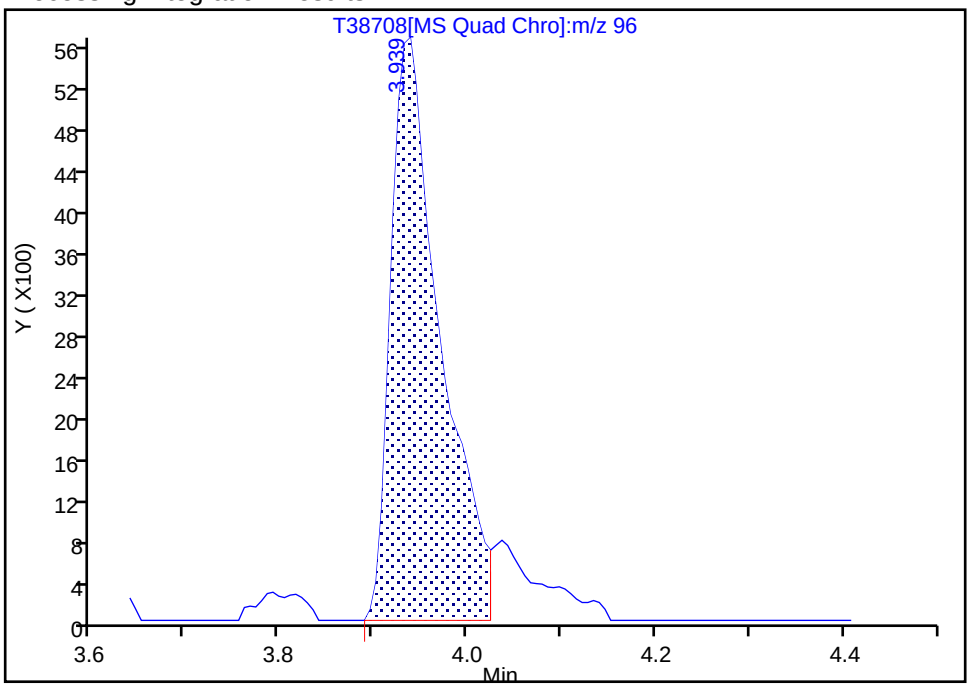
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38708.D
Injection Date: 04-Sep-2020 19:36:22 Instrument ID: CVOAMS15
Lims ID: ICV
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

* 73 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

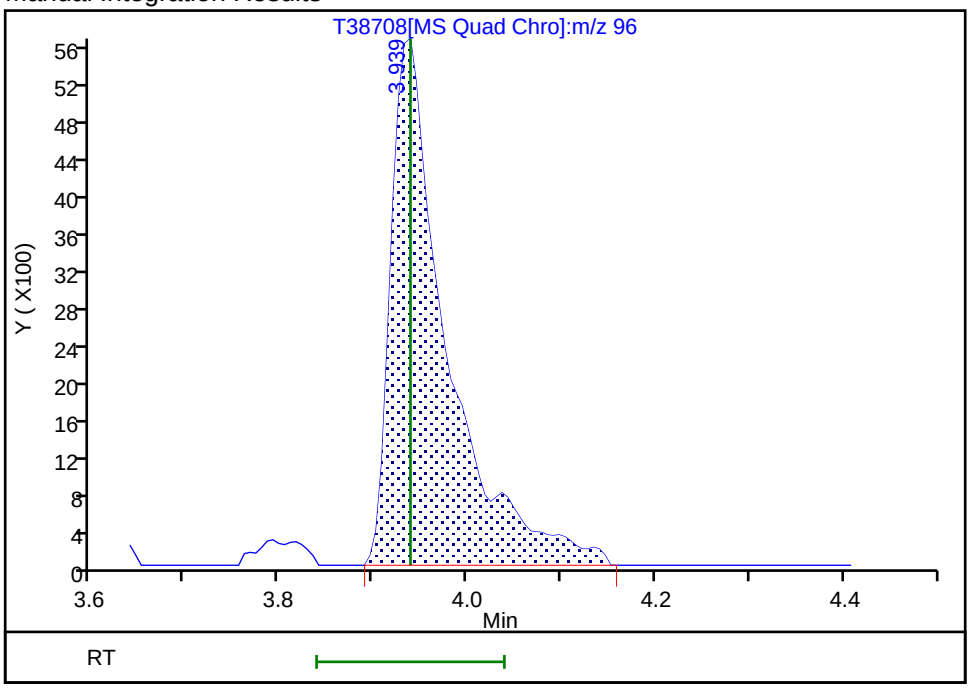
Processing Integration Results

RT: 3.94
Area: 20569
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.94
Area: 23270
Amount: 1000.0000
Amount Units: ug/l



Reviewer: baronm, 05-Sep-2020 11:26:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCVIS 460-722587/2 Calibration Date: 09/08/2020 20:20

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38863.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monochloropentafluoroethane	Ave	0.0455	0.0171		7.52	20.0	-62.4*	20.0
1,1-Difluoroethane	Ave	0.1184	0.1300		22.0	20.0	9.8	20.0
Chlorotrifluoroethene	Qua2		0.0555		11.5	20.0	-42.5*	20.0
Dichlorodifluoromethane	Ave	0.3648	0.3082	0.1000	16.9	20.0	-15.5	20.0
Chlorodifluoromethane	Ave	0.0482	0.0433		18.0	20.0	-10.2	20.0
Chloromethane	Ave	0.2006	0.2217	0.1000	22.1	20.0	10.5	20.0
Vinyl chloride	Ave	0.2702	0.2966	0.1000	22.0	20.0	9.8	20.0
Butadiene	Ave	0.2272	0.2328		20.5	20.0	2.4	20.0
Bromomethane	Ave	1.606	1.387	0.1000	17.3	20.0	-13.6	50.0
Chloroethane	Ave	1.892	2.024	0.1000	21.4	20.0	7.0	50.0
Dichlorofluoromethane	Ave	0.4241	0.3535		16.7	20.0	-16.6	20.0
Trichlorofluoromethane	Ave	0.4294	0.3572	0.1000	16.6	20.0	-16.8	20.0
Pentane	Ave	0.0378	0.0305		32.3	40.0	-19.3	20.0
Ethanol	QuaF		0.2898		810	800	1.3	50.0
Ethyl ether	Ave	0.1702	0.1563		18.4	20.0	-8.2	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2489	0.2554		20.5	20.0	2.6	20.0
2-Methyl-1,3-butadiene	Ave	0.1914	0.1688		17.6	20.0	-11.8	20.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.3712	0.4020		21.7	20.0	8.3	20.0
Acrolein	Ave	6.980	7.333		42.0	40.0	5.1	50.0
1,1-Dichloroethene	Ave	0.2398	0.2577	0.1000	21.5	20.0	7.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2589	0.2633	0.1000	20.3	20.0	1.7	20.0
Acetone	Ave	0.6811	0.4716	0.0500	69.3	100	-30.7	50.0
Iodomethane	Ave	0.1325	0.0822		12.4	20.0	-38.0*	20.0
Carbon disulfide	Ave	0.7715	0.7972	0.1000	20.7	20.0	3.3	50.0
Isopropyl alcohol	Ave	3.011	3.135		208	200	4.1	50.0
Acetonitrile	Ave	0.1481	0.1280		173	200	-13.5	20.0
Allyl chloride	Ave	0.1542	0.1583		20.5	20.0	2.7	20.0
Methyl acetate	Ave	0.1315	0.1054	0.1000	32.1	40.0	-19.9	20.0
Cyclopentene	Ave	0.5426	0.5792		21.4	20.0	6.8	20.0
Methylene Chloride	Ave	0.2639	0.2732	0.1000	20.7	20.0	3.5	20.0
2-Methyl-2-propanol	Ave	6.193	5.533		179	200	-10.7	50.0
Acrylonitrile	Ave	0.0699	0.0662		189	200	-5.3	20.0
trans-1,2-Dichloroethene	Ave	0.2674	0.2989	0.1000	22.4	20.0	11.8	20.0
Methyl tert-butyl ether	Ave	0.6669	0.6159	0.1000	18.5	20.0	-7.6	20.0
Hexane	Ave	0.2716	0.2714		20.0	20.0	-0.0	20.0
1,1-Dichloroethane	Ave	0.4332	0.4366	0.2000	20.2	20.0	0.8	20.0
Vinyl acetate	Ave	0.5270	0.6138		46.6	40.0	16.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2482	0.2482		20.0	20.0	0.0	20.0
Isopropyl ether	Ave	0.6178	0.4800		15.5	20.0	-22.3*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCVIS 460-722587/2 Calibration Date: 09/08/2020 20:20

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38863.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tert-butyl ethyl ether	Ave	0.6505	0.5978		18.4	20.0	-8.1	20.0
2,2-Dichloropropane	Ave	0.0930	0.0950		20.4	20.0	2.1	20.0
cis-1,2-Dichloroethene	Ave	0.2997	0.3130	0.1000	20.9	20.0	4.4	20.0
2-Butanone (MEK)	Ave	1.005	0.8939	0.0500	88.9	100	-11.1	50.0
Propionitrile	Ave	7.602	8.800		232	200	15.8	20.0
Ethyl acetate	QuaF		0.2988		45.6	40.0	13.9	20.0
Methyl acrylate	Ave	0.1958	0.1867		19.1	20.0	-4.6	20.0
Chlorobromomethane	Ave	0.1436	0.1512		21.1	20.0	5.3	20.0
Methacrylonitrile	Ave	0.0904	0.0905		200	200	0.1	20.0
Tetrahydrofuran	Ave	0.3236	0.3685		45.6	40.0	13.9	20.0
Chloroform	Ave	0.4775	0.4640	0.2000	19.4	20.0	-2.8	20.0
1,1,1-Trichloroethane	Ave	0.4453	0.3907	0.1000	17.5	20.0	-12.3	20.0
Cyclohexane	Ave	0.3551	0.3791	0.1000	21.4	20.0	6.8	50.0
Carbon tetrachloride	Ave	0.3755	0.3397	0.1000	18.1	20.0	-9.5	20.0
1,1-Dichloropropene	Ave	0.3726	0.3622		19.4	20.0	-2.8	20.0
Isobutyl alcohol	Ave	1.859	1.861		500	500	0.0	50.0
Benzene	Ave	1.351	1.578	0.5000	23.4	20.0	16.8	20.0
1,2-Dichloroethane	Ave	0.3318	0.2383	0.1000	14.4	20.0	-28.2*	20.0
2,2,4-Trimethylpentane	Ave	0.4745	0.4694		19.8	20.0	-1.1	20.0
Isopropyl acetate	Ave	0.0740	0.0771		20.8	20.0	4.2	20.0
Tert-amyl methyl ether	Ave	0.6617	0.6290		19.0	20.0	-4.9	20.0
n-Heptane	Ave	0.1950	0.1711		17.5	20.0	-12.3	20.0
Trichloroethene	Ave	0.2920	0.2855	0.2000	19.6	20.0	-2.2	20.0
n-Butanol	Ave	1.265	1.283		507	500	1.4	50.0
Ethyl acrylate	Ave	0.4990	0.4559		18.3	20.0	-8.6	20.0
Methylcyclohexane	Ave	0.3598	0.3732	0.1000	20.7	20.0	3.7	50.0
1,2-Dichloropropane	Ave	0.2312	0.2564	0.1000	22.2	20.0	10.9	20.0
Dibromomethane	Ave	0.1625	0.1651		20.3	20.0	1.6	20.0
1,4-Dioxane	Ave	0.9311	1.004		431	400	7.8	50.0
Methyl methacrylate	Ave	0.0599	0.0560		37.4	40.0	-6.5	20.0
n-Propyl acetate	Ave	0.2442	0.2151		17.6	20.0	-11.9	20.0
Dichlorobromomethane	Ave	0.3557	0.3286	0.2000	18.5	20.0	-7.6	20.0
2-Nitropropane	Ave	0.0468	0.0225		19.2	40.0	-52.0*	20.0
2-Chloroethyl vinyl ether	Qua2		0.0657		14.5	20.0	-27.8*	20.0
Epichlorohydrin	Ave	0.2277	0.2311		406	400	1.5	20.0
cis-1,3-Dichloropropene	Ave	0.5589	0.5967	0.2000	21.4	20.0	6.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.874	1.831	0.0500	97.7	100	-2.3	50.0
Toluene	Ave	1.480	1.693	0.4000	22.9	20.0	14.4	20.0
trans-1,3-Dichloropropene	Ave	0.5017	0.4587	0.1000	18.3	20.0	-8.6	50.0
Ethyl methacrylate	Ave	0.3574	0.2843		15.9	20.0	-20.4*	20.0
1,1,2-Trichloroethane	Ave	0.2517	0.2308	0.1000	18.3	20.0	-8.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCVIS 460-722587/2 Calibration Date: 09/08/2020 20:20

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38863.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloroethene	Ave	0.3988	0.3974	0.2000	19.9	20.0	-0.4	20.0
1,3-Dichloropropane	Ave	0.4848	0.4151		17.1	20.0	-14.4	20.0
2-Hexanone	Ave	1.274	1.031	0.0500	80.9	100	-19.1	50.0
Chlorodibromomethane	Ave	0.3712	0.3246	0.1000	17.5	20.0	-12.5	50.0
Ethylene Dibromide	Ave	0.3300	0.3131	0.1000	19.0	20.0	-5.1	20.0
n-Butyl acetate	Ave	0.3496	0.2780		15.9	20.0	-20.5*	20.0
Chlorobenzene	Ave	0.9432	1.037	0.5000	22.0	20.0	10.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3574	0.3368		18.8	20.0	-5.8	20.0
Ethylbenzene	Ave	0.4960	0.5404	0.1000	21.8	20.0	8.9	20.0
m-Xylene & p-Xylene	Ave	0.6140	0.6703	0.1000	21.8	20.0	9.2	20.0
o-Xylene	Ave	0.5718	0.6170	0.3000	21.6	20.0	7.9	20.0
Styrene	Ave	0.9153	1.013	0.3000	22.1	20.0	10.7	20.0
n-Butyl acrylate	Ave	0.1956	0.1619		16.6	20.0	-17.2	20.0
Bromoform	Ave	0.2440	0.2102	0.1000	17.2	20.0	-13.9	20.0
Amyl acetate (mixed isomers)	Ave	0.8163	0.6316		15.5	20.0	-22.6*	20.0
Isopropylbenzene	Ave	1.424	1.547	0.1000	21.7	20.0	8.6	20.0
Bromobenzene	Ave	0.8124	0.8565		21.1	20.0	5.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7553	0.8063	0.3000	21.4	20.0	6.8	20.0
1,2,3-Trichloropropane	Ave	0.2283	0.2342		20.5	20.0	2.6	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.1939		19.2	20.0	-4.2	20.0
N-Propylbenzene	Ave	3.569	4.057		22.7	20.0	13.7	20.0
2-Chlorotoluene	Ave	2.065	2.383		23.1	20.0	15.4	20.0
4-Ethyltoluene	Ave	2.779	3.109		22.4	20.0	11.9	20.0
4-Chlorotoluene	Ave	2.225	2.703		24.3	20.0	21.5*	20.0
1,3,5-Trimethylbenzene	Ave	2.247	2.416		21.5	20.0	7.5	20.0
Butyl Methacrylate	Ave	0.7642	0.8445		22.1	20.0	10.5	20.0
tert-Butylbenzene	Ave	1.945	2.049		21.1	20.0	5.4	20.0
1,2,4-Trimethylbenzene	Ave	2.219	2.393		21.6	20.0	7.8	20.0
sec-Butylbenzene	Ave	2.659	2.935		22.1	20.0	10.4	20.0
1,3-Dichlorobenzene	Ave	1.341	1.414	0.6000	21.1	20.0	5.5	20.0
1,4-Dichlorobenzene	Ave	1.378	1.424	0.5000	20.7	20.0	3.4	20.0
4-Isopropyltoluene	Ave	2.228	2.353		21.1	20.0	5.6	20.0
1,2,3-Trimethylbenzene	Ave	2.167	2.315		21.4	20.0	6.8	20.0
Benzyl chloride	Ave	1.355	1.306		19.3	20.0	-3.7	50.0
Indan	Ave	2.149	2.345		21.8	20.0	9.1	20.0
1,2-Dichlorobenzene	Ave	1.210	1.293	0.4000	21.4	20.0	6.9	20.0
p-Diethylbenzene	Ave	1.058	1.153		21.8	20.0	9.0	20.0
n-Butylbenzene	Ave	1.036	1.179		22.8	20.0	13.8	20.0
1,2-Dibromo-3-Chloropropane	Qua2		0.1365	0.0500	17.6	20.0	-12.1	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.659	1.622		19.6	20.0	-2.2	20.0
1,3,5-Trichlorobenzene	Ave	0.6868	0.6545		19.1	20.0	-4.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCVIS 460-722587/2 Calibration Date: 09/08/2020 20:20

Instrument ID: CVOAMS15 Calib Start Date: 09/04/2020 12:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2020 15:01

Lab File ID: T38863.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	0.5708	0.5310	0.2000	18.6	20.0	-7.0	20.0
Hexachlorobutadiene	Lin2		0.2199		17.8	20.0	-10.9	20.0
Naphthalene	Ave	1.465	1.288		17.6	20.0	-12.0	50.0
1,2,3-Trichlorobenzene	Ave	0.4407	0.3917		17.8	20.0	-11.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2917	0.2607		44.7	50.0	-10.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2947	0.2209		37.5	50.0	-25.1*	20.0
Toluene-d8 (Surr)	Ave	1.277	1.325		51.9	50.0	3.8	20.0
4-Bromofluorobenzene	Ave	0.4120	0.3703		44.9	50.0	-10.1	20.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38863.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Sep-2020 20:20:59 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0116442-002
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub18

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: asfawa Date: 09-Sep-2020 11:20:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	25	4767	20.0	7.52	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	55	15464	20.0	11.5	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	92	36220	20.0	22.0	
4 Dichlorodifluoromethane	85	0.647	0.647	0.000	99	85875	20.0	16.9	
5 Chlorodifluoromethane	67	0.653	0.653	0.000	95	12055	20.0	18.0	
6 Chloromethane	50	0.726	0.726	0.000	99	61781	20.0	22.1	
7 Vinyl chloride	62	0.769	0.769	0.000	98	82644	20.0	22.0	
8 Butadiene	54	0.787	0.787	0.000	89	64857	20.0	20.5	
9 Bromomethane	94	0.909	0.909	0.000	99	28662	20.0	17.3	
10 Chloroethane	64	0.952	0.952	0.000	98	41837	20.0	21.4	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	91	98512	20.0	16.7	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	96	99542	20.0	16.6	
13 Pentane	72	1.104	1.104	0.000	95	17020	40.0	32.3	
14 Ethanol	45	1.165	1.165	0.000	93	9111	800.0	810.2	
15 Ethyl ether	59	1.208	1.208	0.000	51	43559	20.0	18.4	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	88	71168	20.0	20.5	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	77	47028	20.0	17.6	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	96	112017	20.0	21.7	
19 Acrolein	56	1.269	1.269	0.000	95	11528	40.0	42.0	
20 1,1-Dichloroethene	96	1.312	1.312	0.000	93	71811	20.0	21.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	85	73374	20.0	20.3	
22 Acetone	43	1.342	1.342	0.000	91	48735	100.0	69.3	
23 Iodomethane	142	1.391	1.391	0.000	97	22904	20.0	12.4	
24 Carbon disulfide	76	1.421	1.421	0.000	98	222142	20.0	20.7	
25 Isopropyl alcohol	45	1.427	1.427	0.000	30	24644	200.0	208.3	
26 Acetonitrile	40	1.494	1.494	0.000	83	26462	200.0	173.0	
27 3-Chloro-1-propene	76	1.501	1.501	0.000	94	44120	20.0	20.5	
28 Methyl acetate	43	1.519	1.519	0.000	94	58733	40.0	32.1	
29 Cyclopentene	67	1.543	1.543	0.000	93	161408	20.0	21.4	
30 Methylene Chloride	84	1.568	1.568	0.000	81	76141	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	97	39302	1000.0	1000.0	
32 2-Methyl-2-propanol	59	1.641	1.641	0.000	98	43493	200.0	178.7	
33 Acrylonitrile	53	1.702	1.702	0.000	95	184500	200.0	189.5	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	86	83291	20.0	22.4	
35 Methyl tert-butyl ether	73	1.726	1.726	0.000	95	171619	20.0	18.5	
36 Hexane	57	1.891	1.891	0.000	85	75631	20.0	20.0	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	94	121670	20.0	20.2	
38 Vinyl acetate	86	2.019	2.019	0.000	99	25370	40.0	46.6	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	72	69175	20.0	20.0	
40 Isopropyl ether	45	2.031	2.031	0.000	79	133762	20.0	15.5	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	90	166586	20.0	18.4	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	85	258328	250.0	250.0	
44 2,2-Dichloropropane	97	2.354	2.354	0.000	77	26459	20.0	20.4	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	97	87223	20.0	20.9	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	96	92367	100.0	88.9	
46 Propionitrile	54	2.415	2.415	0.000	99	69171	200.0	231.5	
47 Ethyl acetate	70	2.433	2.433	0.000	98	12352	40.0	45.6	
48 Methyl acrylate	55	2.452	2.452	0.000	95	52014	20.0	19.1	
50 Methacrylonitrile	67	2.525	2.525	0.000	80	252280	200.0	200.2	
49 Chlorobromomethane	128	2.525	2.525	0.000	55	42135	20.0	21.1	
51 Tetrahydrofuran	72	2.573	2.573	0.000	78	15233	40.0	45.6	
52 Chloroform	83	2.598	2.598	0.000	99	129300	20.0	19.4	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	181601	50.0	44.7	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	73	108864	20.0	17.5	
55 Cyclohexane	84	2.769	2.769	0.000	81	105645	20.0	21.4	
56 Carbon tetrachloride	117	2.854	2.854	0.000	97	94657	20.0	18.1	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	94	100932	20.0	19.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	97	153869	50.0	37.5	
59 Isobutyl alcohol	43	3.012	3.012	0.000	42	36562	500.0	500.4	
60 Benzene	78	3.025	3.025	0.000	94	300625	20.0	23.4	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	53	66410	20.0	14.4	
62 Isooctane	57	3.116	3.116	0.000	99	130798	20.0	19.8	
63 Isopropyl acetate	61	3.140	3.140	0.000	92	21474	20.0	20.8	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	86	175266	20.0	19.0	
* 65 Fluorobenzene	96	3.275	3.275	0.000	100	696633	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	76	47665	20.0	17.5	
67 Trichloroethene	95	3.610	3.610	0.000	98	79549	20.0	19.6	
68 n-Butanol	56	3.628	3.628	0.000	41	25203	500.0	507.0	
69 Ethyl acrylate	55	3.774	3.774	0.000	97	127047	20.0	18.3	
70 Methylcyclohexane	83	3.787	3.787	0.000	86	104004	20.0	20.7	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	94	71458	20.0	22.2	
72 Dibromomethane	93	3.927	3.927	0.000	53	46017	20.0	20.3	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	88	34312	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	36	13773	400.0	431.1	
75 Methyl methacrylate	100	4.000	4.000	0.000	78	31206	40.0	37.4	
76 n-Propyl acetate	43	4.085	4.085	0.000	94	59944	20.0	17.6	
77 Dichlorobromomethane	83	4.116	4.116	0.000	95	91556	20.0	18.5	
78 2-Nitropropane	41	4.366	4.366	0.000	95	12522	40.0	19.2	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	88	18349	20.0	14.5	
80 Epichlorohydrin	57	4.524	4.524	0.000	97	95534	400.0	406.0	
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	86	113708	20.0	21.4	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	91	189236	100.0	97.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	631378	50.0	51.9	
84 Toluene	91	4.982	4.982	0.000	93	322637	20.0	22.9	
85 trans-1,3-Dichloropropene	75	5.286	5.286	0.000	89	87413	20.0	18.3	
86 Ethyl methacrylate	69	5.475	5.475	0.000	79	54176	20.0	15.9	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	91	43975	20.0	18.3	
88 Tetrachloroethene	166	5.640	5.640	0.000	91	75729	20.0	19.9	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	83	79109	20.0	17.1	
90 2-Hexanone	43	5.884	5.884	0.000	90	106552	100.0	80.9	
91 Chlorodibromomethane	129	5.975	5.975	0.000	94	61854	20.0	17.5	
92 Ethylene Dibromide	107	6.079	6.079	0.000	97	59670	20.0	19.0	
93 n-Butyl acetate	43	6.116	6.116	0.000	95	52985	20.0	15.9	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	81	476410	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	97	197700	20.0	22.0	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	93	64175	20.0	18.8	
97 Ethylbenzene	106	6.993	6.993	0.000	97	102979	20.0	21.8	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	127733	20.0	21.8	
99 o-Xylene	106	7.743	7.743	0.000	95	117585	20.0	21.6	
100 Styrene	104	7.774	7.774	0.000	96	193070	20.0	22.1	
101 n-Butyl acrylate	73	7.865	7.865	0.000	95	30852	20.0	16.6	
102 Bromoform	173	7.981	7.981	0.000	96	40053	20.0	17.2	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	90	55552	20.0	15.5	
104 Isopropylbenzene	105	8.341	8.341	0.000	95	294751	20.0	21.7	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	94	176410	50.0	44.9	
106 Bromobenzene	156	8.700	8.700	0.000	95	75335	20.0	21.1	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	89	70920	20.0	21.4	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	82	20598	20.0	20.5	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	89	17059	20.0	19.2	
110 N-Propylbenzene	91	8.993	8.993	0.000	99	356864	20.0	22.7	
111 2-Chlorotoluene	91	9.048	9.048	0.000	95	209644	20.0	23.1	
112 4-Ethyltoluene	105	9.194	9.194	0.000	98	273461	20.0	22.4	
113 4-Chlorotoluene	91	9.237	9.237	0.000	97	237779	20.0	24.3	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	93	212547	20.0	21.5	
115 Butyl Methacrylate	87	9.621	9.621	0.000	84	74284	20.0	22.1	
116 tert-Butylbenzene	119	9.810	9.810	0.000	94	180248	20.0	21.1	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	97	210468	20.0	21.6	
118 sec-Butylbenzene	105	10.176	10.176	0.000	99	258164	20.0	22.1	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	96	124372	20.0	21.1	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	219902	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.414	10.414	0.000	91	125245	20.0	20.7	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	90	206967	20.0	21.1	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	98	203601	20.0	21.4	
124 Benzyl chloride	91	10.682	10.682	0.000	99	114833	20.0	19.3	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	90	206308	20.0	21.8	
126 1,2-Dichlorobenzene	146	10.999	10.999	0.000	95	113725	20.0	21.4	
127 p-Diethylbenzene	119	11.109	11.109	0.000	90	101440	20.0	21.8	a
128 n-Butylbenzene	92	11.139	11.139	0.000	97	103677	20.0	22.8	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	86	12005	20.0	17.6	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	96	142659	20.0	19.6	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	96	57570	20.0	19.1	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	92	46704	20.0	18.6	
133 Hexachlorobutadiene	225	13.145	13.145	0.000	58	19339	20.0	17.8	
134 Naphthalene	128	13.151	13.151	0.000	99	113323	20.0	17.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	93	34453	20.0	17.8	
S 136 1,2-Dichloroethene, Total	100				0		40.0	43.2	
S 137 Xylenes, Total	100				0		40.0	43.4	
S 140 Total BTEX	1				0		100.0	111.4	
S 139 1,3-Dichloropropene, Total	1				0		40.0	39.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
524freon_00027	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Sep-2020 11:20:45 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38863.D

Injection Date: 08-Sep-2020 20:20:59 Instrument ID: CVOAMS15

Lims ID: CCVIS

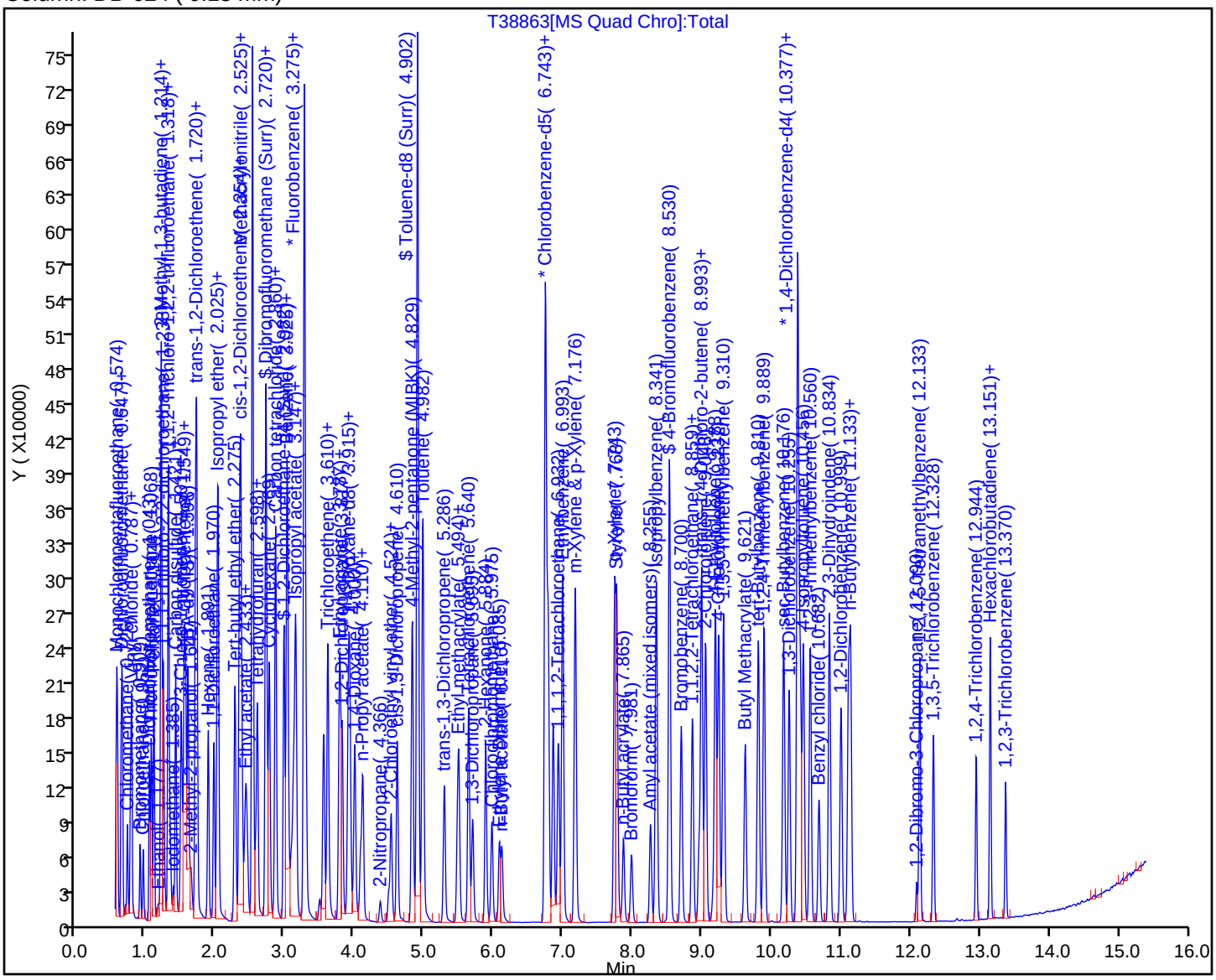
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 2

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Edison

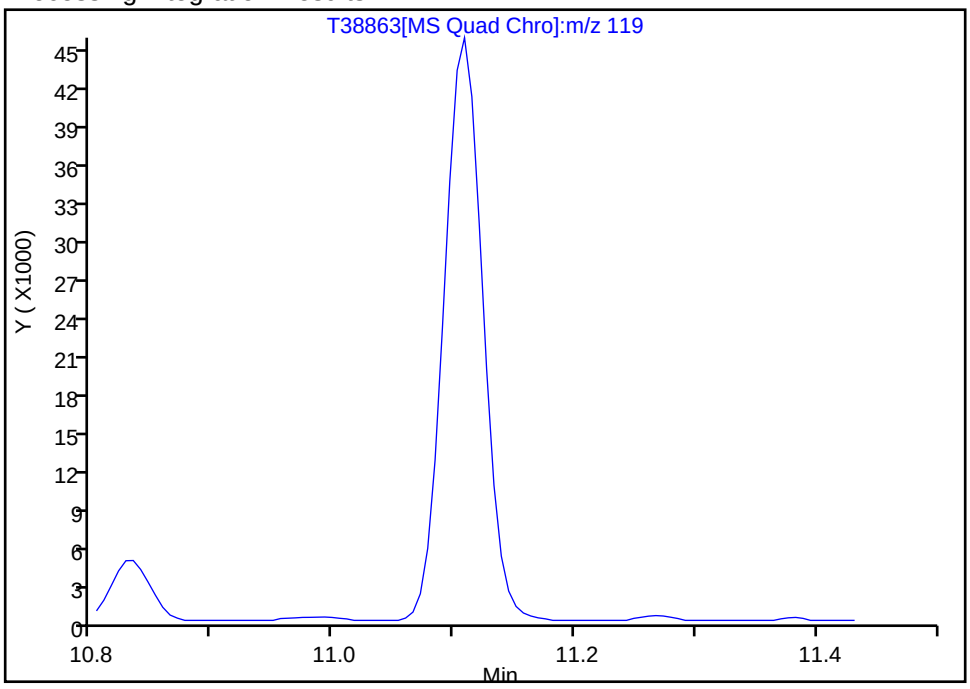
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38863.D
Injection Date: 08-Sep-2020 20:20:59 Instrument ID: CVOAMS15
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

127 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

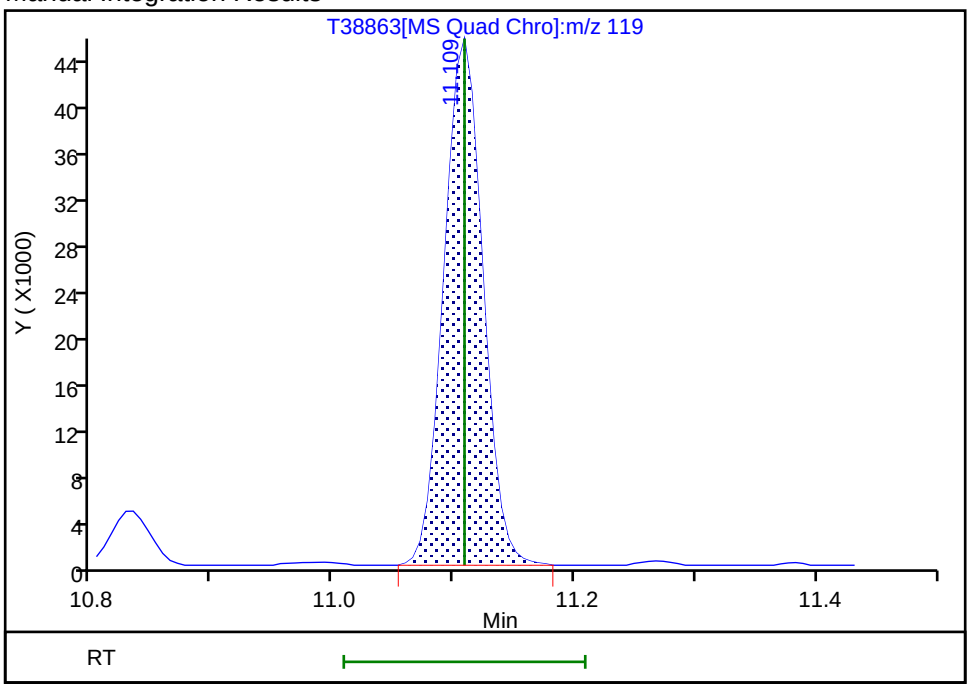
Not Detected
Expected RT: 11.11

Processing Integration Results



Manual Integration Results

RT: 11.11
Area: 101440
Amount: 21.791537
Amount Units: ug/l



Reviewer: parekhv, 08-Sep-2020 20:44:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File:	\\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38692.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	04-Sep-2020 11:28:08	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0116301-001				
Operator ID:		Instrument ID:	CVOAMS15		
Method:	\\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\8260W_15.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	05-Sep-2020 11:27:20	Calib Date:	04-Sep-2020 15:01:54		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS Quad		
Process Host:	CTX1014				
First Level Reviewer: moroneyc		Date:	04-Sep-2020 11:45:01		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 141 BFB	95	2.265	2.265	0.000	93	108405	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

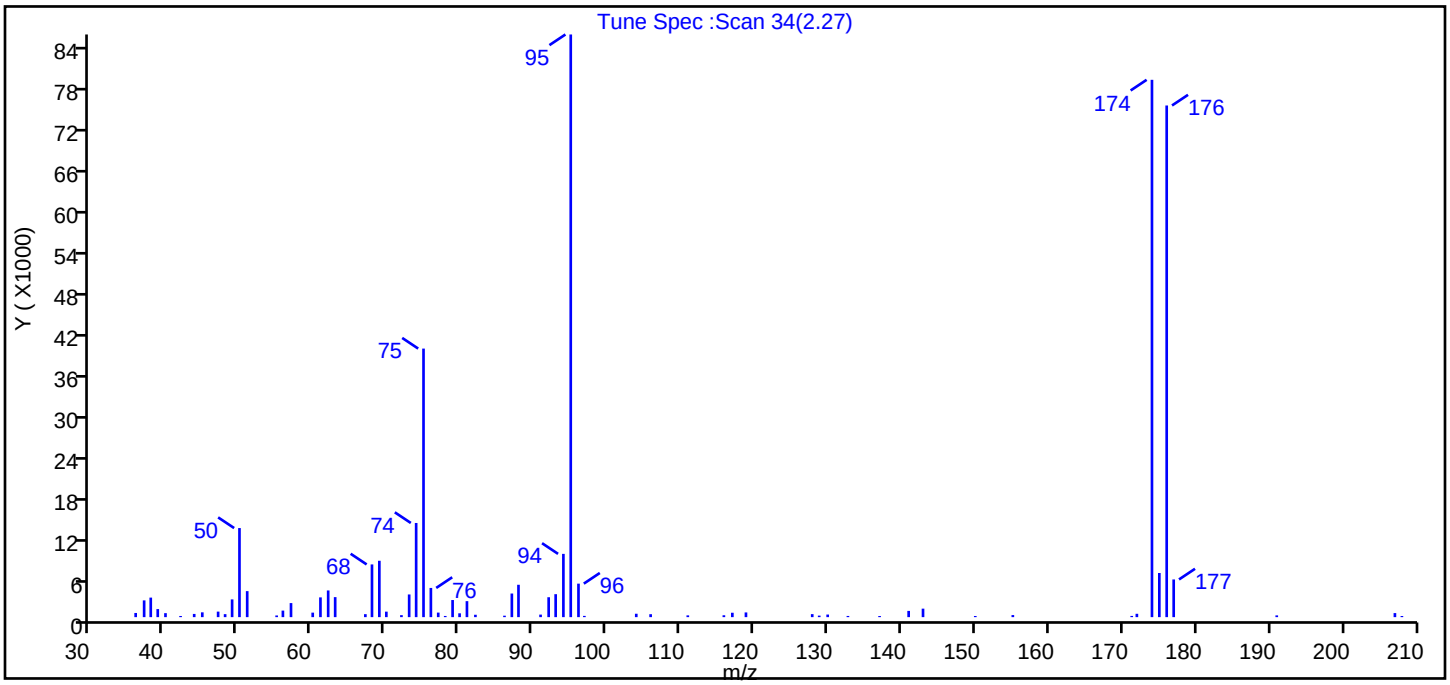
BFB_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38692.D
Injection Date: 04-Sep-2020 11:28:08 Instrument ID: CVOAMS15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 141 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.3
75	30 to 60% of m/z 95	46.1
96	5 to 9% of m/z 95	5.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	92.2
175	5 to 9% of m/z 174	7.6 (8.2)
176	Greater than 95% but less than 101% of m/z 174	87.8 (95.2)
177	5 to 9% of m/z 176	6.5 (7.4)

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38692.D\8260W_15.rslt\spectra.d
Injection Date: 04-Sep-2020 11:28:08
Spectrum: Tune Spec :Scan 34(2.27)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	612	62.00	3918	87.00	3468	133.00	175
37.00	2460	63.00	2939	88.00	4752	137.00	164
38.00	2868	67.00	438	91.00	373	141.00	917
39.00	1182	68.00	7739	92.00	2923	143.00	1246
40.00	586	69.00	8276	93.00	3371	150.00	169
42.00	170	70.00	808	94.00	9289	155.00	305
44.00	472	72.00	292	95.00	85536	171.00	179
45.00	706	73.00	3329	96.00	4918	172.00	492
47.00	812	74.00	13823	97.00	184	174.00	78880
48.00	441	75.00	39424	104.00	500	175.00	6480
49.00	2604	76.00	4288	106.00	433	176.00	75112
50.00	13077	77.00	667	111.00	260	177.00	5533
51.00	3819	78.00	174	116.00	277	191.00	258
55.00	246	79.00	2512	117.00	646	207.00	596
56.00	962	80.00	563	119.00	692	208.00	166
57.00	2064	81.00	2349	128.00	443		
60.00	663	82.00	351	129.00	224		
61.00	2901	86.00	213	130.00	381		

Report Date: 05-Sep-2020 11:27:21 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38692.D

Injection Date: 04-Sep-2020 11:28:08 Instrument ID: CVOAMS15

Lims ID: BFB

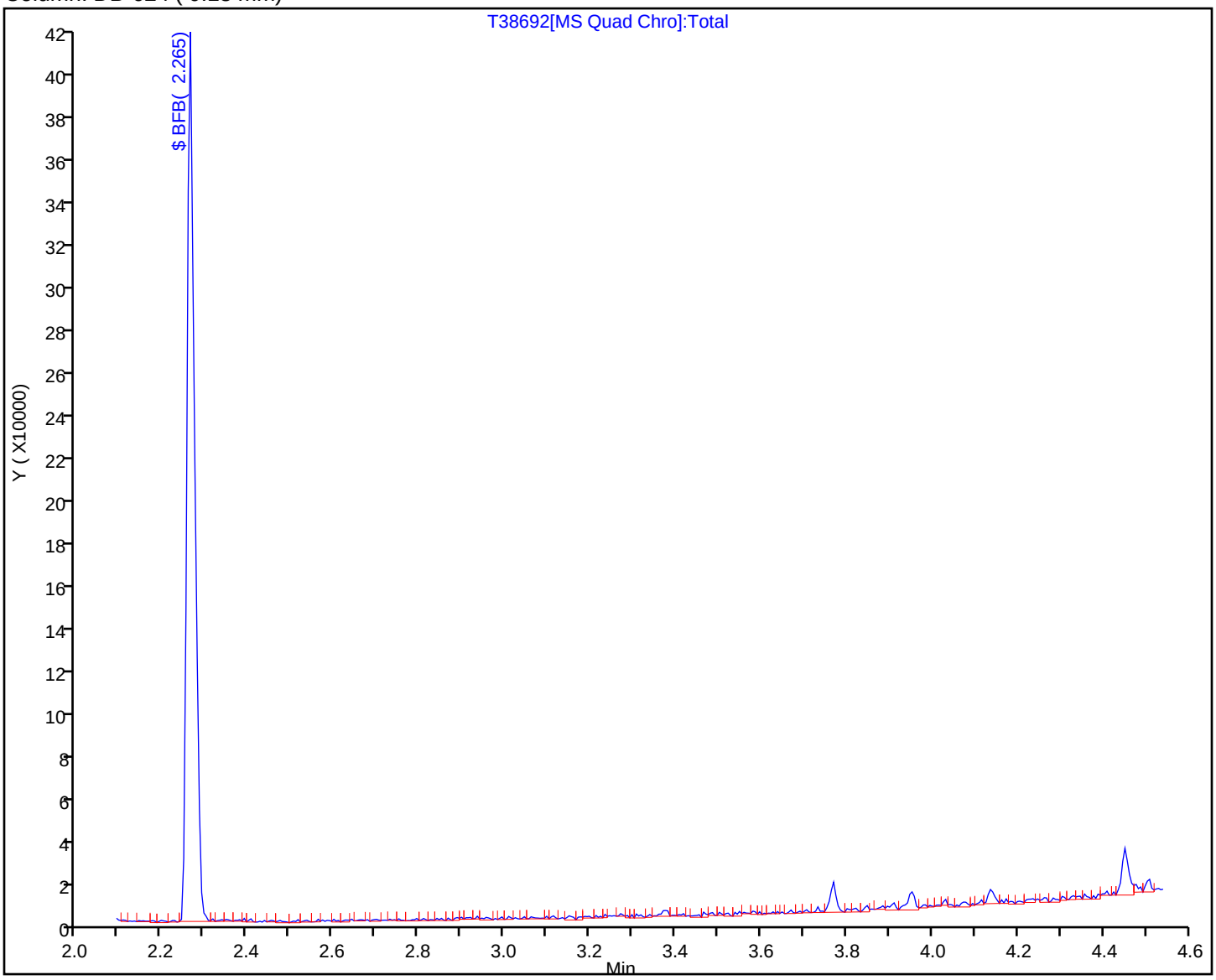
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38862.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Sep-2020 20:05:05 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0116442-001
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Sep-2020 13:01:10 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1033

First Level Reviewer: desais Date: 09-Sep-2020 07:38:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 141 BFB	95	2.265	2.265	0.000	92	238103	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

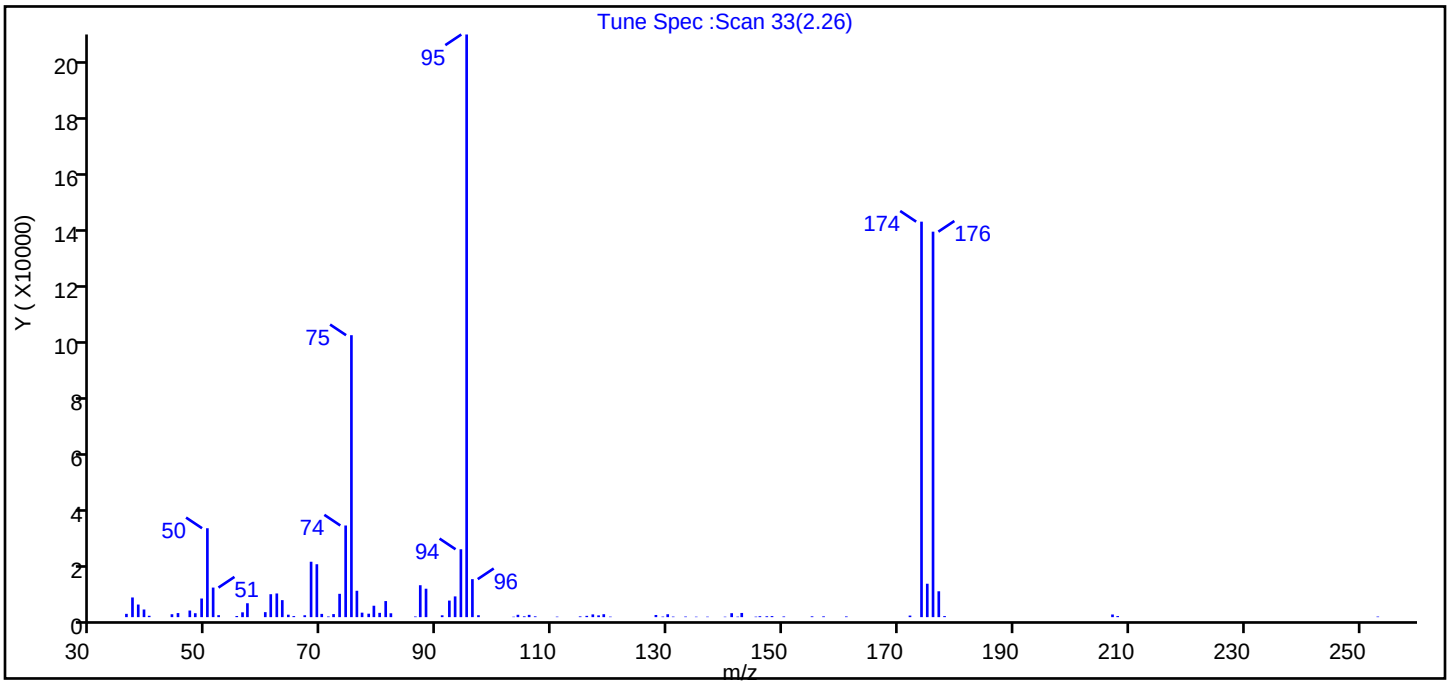
BFB_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38862.D
Injection Date: 08-Sep-2020 20:05:05 Instrument ID: CVOAMS15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 141 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.3
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	67.9
175	5 to 9% of m/z 174	5.7 (8.4)
176	Greater than 95% but less than 101% of m/z 174	66.2 (97.5)
177	5 to 9% of m/z 176	4.4 (6.7)

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38862.D\8260W_15.rslt\spectra.d
Injection Date: 08-Sep-2020 20:05:05
Spectrum: Tune Spec :Scan 33(2.26)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1143	67.00	652	94.00	23440	137.00	167
37.00	6796	68.00	19136	95.00	201216	140.00	154
38.00	4355	69.00	18272	96.00	13124	141.00	1366
39.00	2641	70.00	1124	97.00	662	142.00	180
40.00	475	71.00	224	103.00	150	143.00	1447
44.00	1009	72.00	1056	104.00	815	145.00	172
45.00	1408	73.00	8054	105.00	280	146.00	325
47.00	2284	74.00	31648	106.00	789	147.00	308
48.00	1348	75.00	97368	107.00	279	148.00	361
49.00	6433	76.00	9108	111.00	173	150.00	237
50.00	30704	77.00	1546	115.00	264	155.00	278
51.00	10211	78.00	1193	116.00	447	157.00	267
52.00	682	79.00	3942	117.00	951	161.00	244
55.00	391	80.00	1482	118.00	607	172.00	540
56.00	1667	81.00	5550	119.00	1015	174.00	136576
57.00	4801	82.00	1338	120.00	172	175.00	11536
60.00	1726	86.00	228	128.00	743	176.00	133120
61.00	7920	87.00	11023	129.00	192	177.00	8932
62.00	8174	88.00	9815	130.00	1003	178.00	368
63.00	5873	91.00	634	131.00	188	207.00	918
64.00	847	92.00	5721	133.00	207	208.00	370
65.00	364	93.00	7163	135.00	157	253.00	198

Report Date: 10-Sep-2020 13:01:11 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38862.D

Injection Date: 08-Sep-2020 20:05:05 Instrument ID: CVOAMS15

Lims ID: BFB

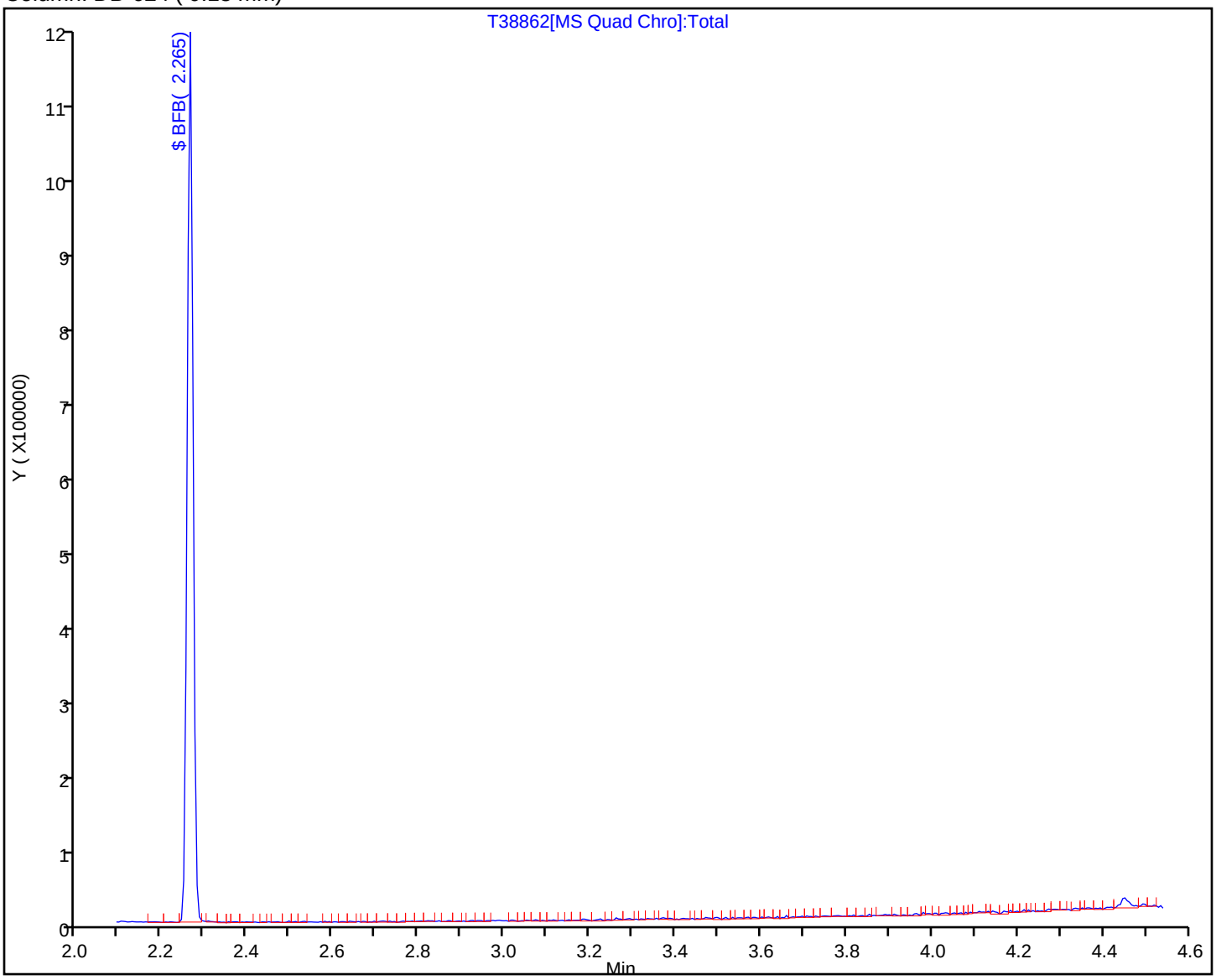
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722587/8

Matrix: Water Lab File ID: T38869.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 22:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.24	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	0.37	U	1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.43	U	1.0	0.43
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	0.36	U	1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.0	0.37
78-87-5	1,2-Dichloropropane	0.35	U	1.0	0.35
541-73-1	1,3-Dichlorobenzene	0.34	U	1.0	0.34
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	28	U	50	28
78-93-3	2-Butanone (MEK)	1.9	U	5.0	1.9
591-78-6	2-Hexanone	1.1	U	5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	1.3	U	5.0	1.3
67-64-1	Acetone	4.4	U	5.0	4.4
71-43-2	Benzene	0.20	U	1.0	0.20
75-25-2	Bromoform	0.54	U	1.0	0.54
74-83-9	Bromomethane	0.55	U	1.0	0.55
75-15-0	Carbon disulfide	0.82	U	1.0	0.82
56-23-5	Carbon tetrachloride	0.21	U	1.0	0.21
108-90-7	Chlorobenzene	0.38	U	1.0	0.38
74-97-5	Chlorobromomethane	0.41	U	1.0	0.41
124-48-1	Chlorodibromomethane	0.28	U	1.0	0.28
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.33	U	1.0	0.33
74-87-3	Chloromethane	0.40	U	1.0	0.40
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.0	0.22
110-82-7	Cyclohexane	0.32	U	1.0	0.32
75-27-4	Dichlorobromomethane	0.34	U	1.0	0.34
75-71-8	Dichlorodifluoromethane	0.31	U	1.0	0.31
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
106-93-4	Ethylene Dibromide	0.50	U	1.0	0.50
98-82-8	Isopropylbenzene	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722587/8

Matrix: Water Lab File ID: T38869.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 22:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.79	U	5.0	0.79
1634-04-4	Methyl tert-butyl ether	0.47	U	1.0	0.47
108-87-2	Methylcyclohexane	0.26	U	1.0	0.26
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.30	U	1.0	0.30
95-47-6	o-Xylene	0.36	U	1.0	0.36
100-42-5	Styrene	0.42	U	1.0	0.42
127-18-4	Tetrachloroethene	0.25	U	1.0	0.25
108-88-3	Toluene	0.38	U	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.24	U	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	0.49	U	1.0	0.49
79-01-6	Trichloroethene	0.31	U	1.0	0.31
75-69-4	Trichlorofluoromethane	0.32	U	1.0	0.32
75-01-4	Vinyl chloride	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.43	U	1.0	0.43
95-50-1	1,2-Dichlorobenzene	0.43	U	1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	0.38	U	1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	61	X	75-123
460-00-4	4-Bromofluorobenzene	84		76-120
1868-53-7	Dibromofluoromethane (Surr)	81		77-124
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-722587/8

Matrix: Water Lab File ID: T38869.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 22:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38869.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Sep-2020 22:54:23 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0116442-008
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: asfawa Date: 09-Sep-2020 11:23:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	92	40127	1000.0	1000.0	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	27	169842	250.0	250.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	97	172609	50.0	40.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	95	131231	50.0	30.5	
* 65 Fluorobenzene	96	3.274	3.275	-0.001	100	730146	50.0	50.0	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	1	33890	1000.0	1000.0	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	98	608332	50.0	45.5	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	82	523106	50.0	50.0	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	92	180121	50.0	41.8	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	219259	50.0	50.0	

Reagents:

VOA6IS/SURR_00038 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Sep-2020 11:23:26 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38869.D

Injection Date: 08-Sep-2020 22:54:23 Instrument ID: CVOAMS15

Lims ID: MB

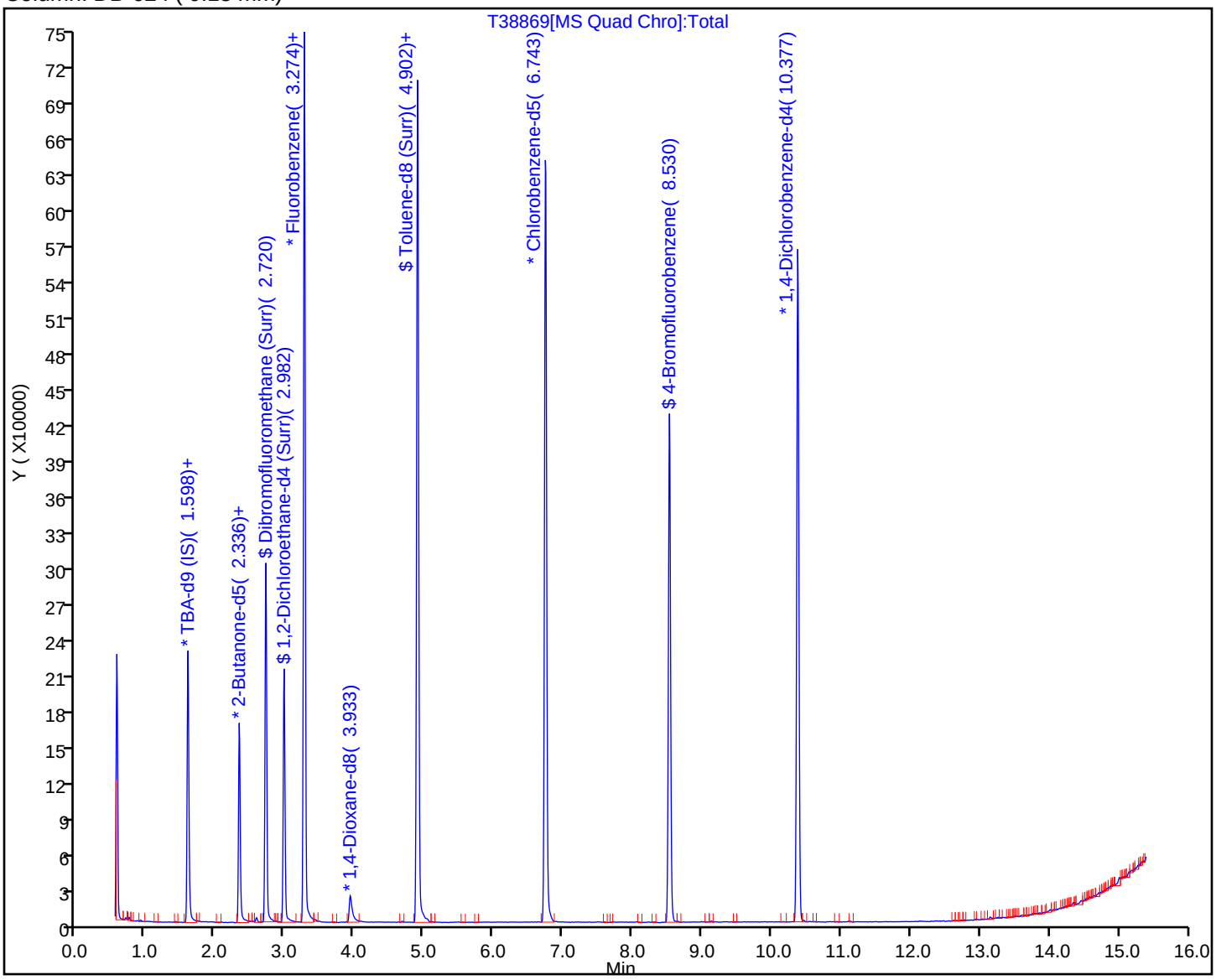
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



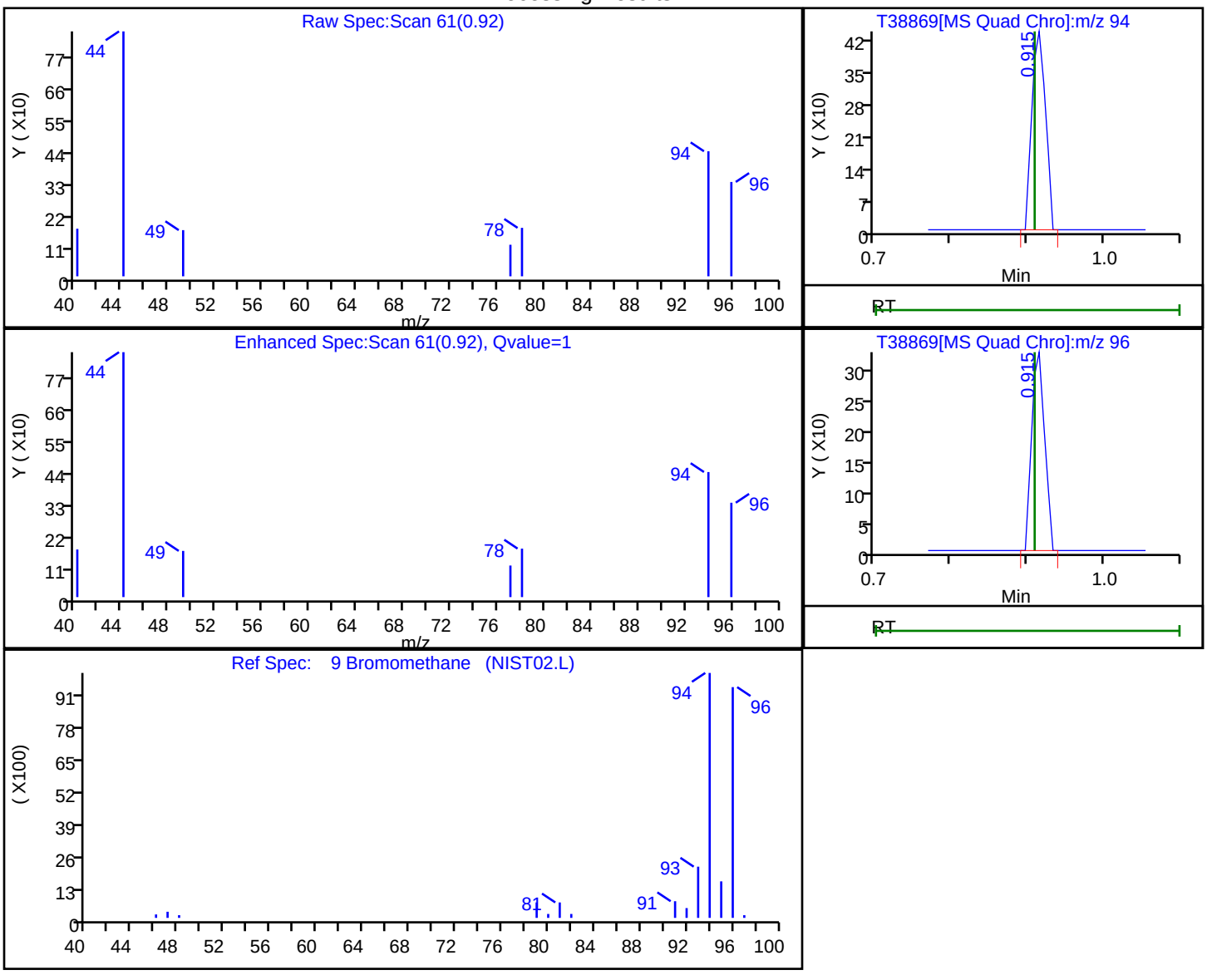
User Disabled Compound Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38869.D
Injection Date: 08-Sep-2020 22:54:23 Instrument ID: CVOAMS15
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

9 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
0.92	94.00	542	0.496798
0.92	96.00	390	

Reviewer: parekhv, 08-Sep-2020 23:41:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

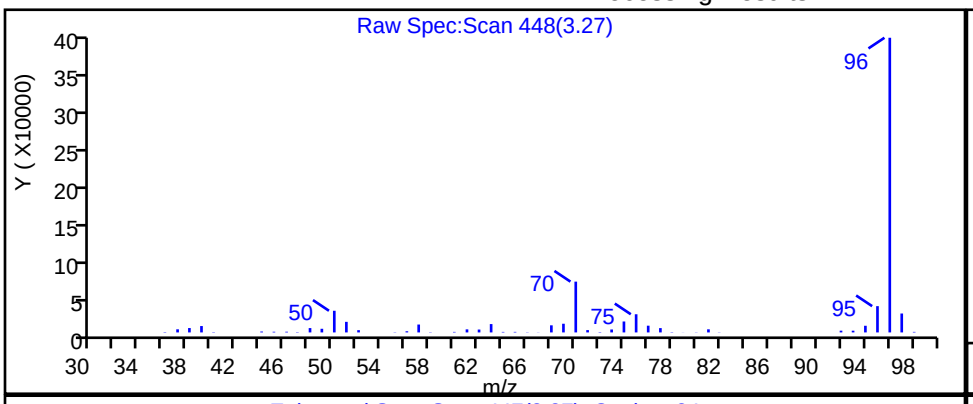
User Disabled Compound Report

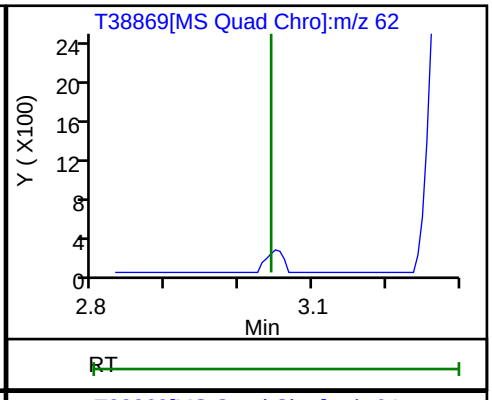
Eurofins TestAmerica, Edison

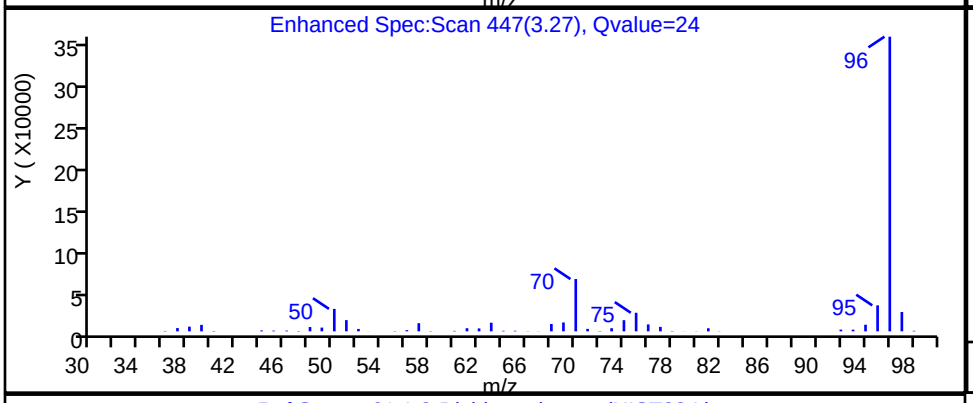
Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38869.D
Injection Date: 08-Sep-2020 22:54:23 Instrument ID: CVOAMS15
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

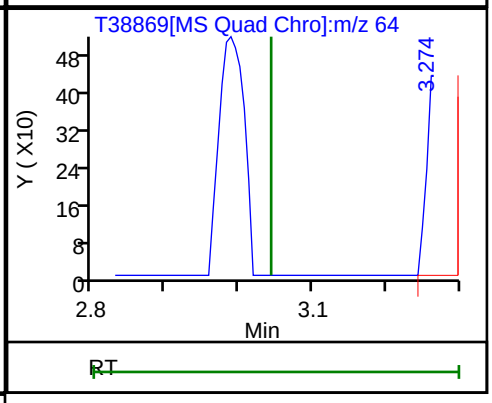
61 1,2-Dichloroethane, CAS: 107-06-2

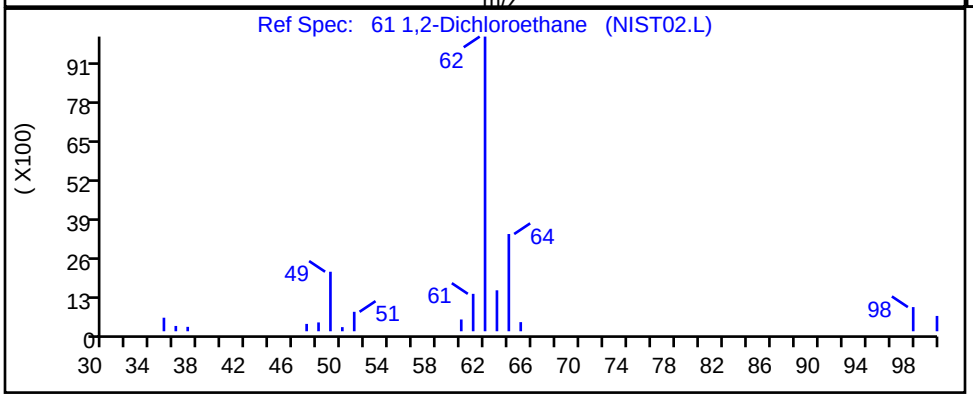
Processing Results











RT	Mass	Response	Amount
3.27	62.00	6938	1.432109
3.27	64.00	1172	

Reviewer: parekhv, 08-Sep-2020 23:41:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722587/4

Matrix: Water Lab File ID: T38865.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 21:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	15.3		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	24.2		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.9		1.0	0.43
75-34-3	1,1-Dichloroethane	16.3		1.0	0.26
75-35-4	1,1-Dichloroethene	19.6		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	21.4		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	18.0		1.0	0.37
78-87-5	1,2-Dichloropropane	18.9		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.4		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.2		1.0	0.33
123-91-1	1,4-Dioxane	487		50	28
78-93-3	2-Butanone (MEK)	98.0		5.0	1.9
591-78-6	2-Hexanone	99.9		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	98.1		5.0	1.3
67-64-1	Acetone	94.2		5.0	4.4
71-43-2	Benzene	17.9		1.0	0.20
75-25-2	Bromoform	18.0		1.0	0.54
74-83-9	Bromomethane	18.1		1.0	0.55
75-15-0	Carbon disulfide	20.2		1.0	0.82
56-23-5	Carbon tetrachloride	14.9		1.0	0.21
108-90-7	Chlorobenzene	20.7		1.0	0.38
74-97-5	Chlorobromomethane	20.9		1.0	0.41
124-48-1	Chlorodibromomethane	19.2		1.0	0.28
75-00-3	Chloroethane	21.2		1.0	0.32
67-66-3	Chloroform	17.0		1.0	0.33
74-87-3	Chloromethane	20.9		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	19.4		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	19.1		1.0	0.22
110-82-7	Cyclohexane	17.5		1.0	0.32
75-27-4	Dichlorobromomethane	16.3		1.0	0.34
75-71-8	Dichlorodifluoromethane	14.4		1.0	0.31
100-41-4	Ethylbenzene	20.2		1.0	0.30
106-93-4	Ethylene Dibromide	20.2		1.0	0.50
98-82-8	Isopropylbenzene	19.5		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-722587/4

Matrix: Water Lab File ID: T38865.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 21:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	38.2		5.0	0.79
1634-04-4	Methyl tert-butyl ether	17.5		1.0	0.47
108-87-2	Methylcyclohexane	18.7		1.0	0.26
75-09-2	Methylene Chloride	21.2		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	19.7		1.0	0.30
95-47-6	o-Xylene	20.1		1.0	0.36
100-42-5	Styrene	21.0		1.0	0.42
127-18-4	Tetrachloroethene	17.0		1.0	0.25
108-88-3	Toluene	18.1		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.5		1.0	0.49
79-01-6	Trichloroethene	18.4		1.0	0.31
75-69-4	Trichlorofluoromethane	14.8		1.0	0.32
75-01-4	Vinyl chloride	19.9		1.0	0.17
107-06-2	1,2-Dichloroethane	13.3		1.0	0.43
95-50-1	1,2-Dichlorobenzene	20.9		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	74	X	75-123
460-00-4	4-Bromofluorobenzene	85		76-120
1868-53-7	Dibromofluoromethane (Surr)	86		77-124
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38865.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Sep-2020 21:08:48 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0116442-004
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: parekhv Date: 08-Sep-2020 23:43:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	24	3734	20.0	5.77	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	59	15588	20.0	11.4	
2 1,1-Difluoroethane	65	0.641	0.635	0.006	94	30701	20.0	18.3	
4 Dichlorodifluoromethane	85	0.653	0.647	0.006	100	74566	20.0	14.4	
5 Chlorodifluoromethane	67	0.659	0.653	0.006	96	10522	20.0	15.4	
6 Chloromethane	50	0.726	0.726	0.000	99	59654	20.0	20.9	
7 Vinyl chloride	62	0.769	0.769	0.000	98	76443	20.0	19.9	
8 Butadiene	54	0.787	0.787	0.000	90	62887	20.0	19.5	
9 Bromomethane	94	0.909	0.909	0.000	98	29162	20.0	18.1	
10 Chloroethane	64	0.952	0.952	0.000	96	40306	20.0	21.2	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	89	93978	20.0	15.6	
12 Trichlorofluoromethane	101	1.068	1.068	0.000	95	90358	20.0	14.8	
13 Pentane	72	1.110	1.104	0.006	94	15992	40.0	29.8	
14 Ethanol	45	1.165	1.165	0.000	94	9237	800.0	703.4	
15 Ethyl ether	59	1.208	1.208	0.000	57	46675	20.0	19.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	81	67662	20.0	19.1	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	76	44445	20.0	16.3	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	97	109147	20.0	20.7	
19 Acrolein	56	1.269	1.269	0.000	95	14104	40.0	44.1	
20 1,1-Dichloroethene	96	1.318	1.312	0.006	85	66826	20.0	19.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	78	69457	20.0	18.9	
22 Acetone	43	1.348	1.342	0.006	91	64435	100.0	94.2	
23 Iodomethane	142	1.391	1.391	0.000	98	43711	20.0	23.2	
24 Carbon disulfide	76	1.421	1.421	0.000	98	221702	20.0	20.2	
25 Isopropyl alcohol	45	1.427	1.427	0.000	31	31082	200.0	225.5	
26 Acetonitrile	40	1.494	1.494	0.000	84	33582	200.0	225.8	
27 3-Chloro-1-propene	76	1.501	1.501	0.000	95	46608	20.0	21.3	
28 Methyl acetate	43	1.519	1.519	0.000	96	71468	40.0	38.2	
29 Cyclopentene	67	1.543	1.543	0.000	94	152006	20.0	19.7	
30 Methylene Chloride	84	1.568	1.568	0.000	82	79474	20.0	21.2	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	97	45780	1000.0	1000.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	1.647	1.641	0.006	98	48546	200.0	171.2	
33 Acrylonitrile	53	1.708	1.702	0.006	96	196860	200.0	198.2	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	85	75949	20.0	20.0	
35 Methyl tert-butyl ether	73	1.726	1.726	0.000	95	165737	20.0	17.5	
36 Hexane	57	1.891	1.891	0.000	84	63487	20.0	16.5	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	99	100532	20.0	16.3	
38 Vinyl acetate	86	2.019	2.019	0.000	99	25427	40.0	48.0	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	75	63123	20.0	17.9	
40 Isopropyl ether	45	2.031	2.031	0.000	77	138799	20.0	15.8	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	91	161771	20.0	17.5	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	84	251099	250.0	250.0	
44 2,2-Dichloropropane	97	2.354	2.354	0.000	78	24437	20.0	18.5	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	97	82702	20.0	19.4	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	95	98978	100.0	98.0	
46 Propionitrile	54	2.421	2.415	0.006	99	71351	200.0	205.0	
47 Ethyl acetate	70	2.433	2.433	0.000	98	10486	40.0	39.8	
48 Methyl acrylate	55	2.458	2.452	0.006	96	43807	20.0	15.7	
50 Methacrylonitrile	67	2.531	2.525	0.006	80	267513	200.0	208.2	
49 Chlorobromomethane	128	2.531	2.525	0.006	52	42662	20.0	20.9	
51 Tetrahydrofuran	72	2.573	2.573	0.000	75	16652	40.0	51.2	
52 Chloroform	83	2.598	2.598	0.000	98	115234	20.0	17.0	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	96	178546	50.0	43.1	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	69	96899	20.0	15.3	
55 Cyclohexane	84	2.769	2.769	0.000	82	88512	20.0	17.5	
56 Carbon tetrachloride	117	2.860	2.854	0.006	83	79734	20.0	14.9	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	92	82354	20.0	15.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	89	155717	50.0	37.2	
59 Isobutyl alcohol	43	3.012	3.012	0.000	46	35768	500.0	420.3	
60 Benzene	78	3.025	3.025	0.000	94	246264	20.0	17.9	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	53	62788	20.0	13.3	
62 Isooctane	57	3.116	3.116	0.000	99	115973	20.0	17.2	a
63 Isopropyl acetate	61	3.147	3.140	0.007	89	22969	20.0	21.9	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	85	178436	20.0	19.0	
* 65 Fluorobenzene	96	3.275	3.275	0.000	100	710514	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	67	45162	20.0	16.3	
67 Trichloroethene	95	3.610	3.610	0.000	93	76371	20.0	18.4	
68 n-Butanol	56	3.628	3.628	0.000	42	28026	500.0	484.1	
69 Ethyl acrylate	55	3.774	3.774	0.000	97	124521	20.0	17.6	
70 Methylcyclohexane	83	3.787	3.787	0.000	84	95378	20.0	18.7	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	94	62126	20.0	18.9	
72 Dibromomethane	93	3.933	3.927	0.006	89	39832	20.0	17.3	
* 73 1,4-Dioxane-d8	96	3.939	3.939	0.000	85	32945	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	37	14951	400.0	487.4	
75 Methyl methacrylate	100	4.000	4.000	0.000	79	35532	40.0	41.8	
76 n-Propyl acetate	43	4.085	4.085	0.000	94	60867	20.0	17.5	
77 Dichlorobromomethane	83	4.116	4.116	0.000	94	82183	20.0	16.3	
78 2-Nitropropane	41	4.366	4.366	0.000	94	16545	40.0	24.9	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	88	23017	20.0	17.7	
80 Epichlorohydrin	57	4.524	4.524	0.000	98	98610	400.0	431.1	
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	85	109084	20.0	19.1	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	90	184602	100.0	98.1	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	625564	50.0	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Toluene	91	4.982	4.982	0.000	93	273230	20.0	18.1	
85 trans-1,3-Dichloropropene	75	5.286	5.286	0.000	92	94772	20.0	18.5	
86 Ethyl methacrylate	69	5.475	5.475	0.000	83	70284	20.0	19.3	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	95	53760	20.0	20.9	
88 Tetrachloroethene	166	5.640	5.640	0.000	91	68988	20.0	17.0	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	83	88740	20.0	17.9	
90 2-Hexanone	43	5.884	5.884	0.000	91	127862	100.0	99.9	
91 Chlorodibromomethane	129	5.975	5.975	0.000	95	72534	20.0	19.2	
92 Ethylene Dibromide	107	6.079	6.079	0.000	97	67868	20.0	20.2	
93 n-Butyl acetate	43	6.116	6.116	0.000	95	65711	20.0	18.4	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	84	510085	50.0	50.0	
95 Chlorobenzene	112	6.786	6.786	0.000	97	198878	20.0	20.7	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	96	70510	20.0	19.3	
97 Ethylbenzene	106	6.993	6.993	0.000	97	102268	20.0	20.2	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	123582	20.0	19.7	
99 o-Xylene	106	7.743	7.743	0.000	94	117423	20.0	20.1	
100 Styrene	104	7.774	7.774	0.000	95	196456	20.0	21.0	
101 n-Butyl acrylate	73	7.865	7.865	0.000	98	47490	20.0	23.8	
102 Bromoform	173	7.987	7.981	0.006	95	44878	20.0	18.0	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	92	83596	20.0	23.0	
104 Isopropylbenzene	105	8.341	8.341	0.000	95	282777	20.0	19.5	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	88	178725	50.0	42.5	
106 Bromobenzene	156	8.700	8.700	0.000	98	73271	20.0	20.3	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	92	81275	20.0	24.2	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	82	21916	20.0	21.6	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	90	17451	20.0	19.4	
110 N-Propylbenzene	91	8.993	8.993	0.000	99	338436	20.0	21.3	
111 2-Chlorotoluene	91	9.048	9.048	0.000	95	204791	20.0	22.3	
112 4-Ethyltoluene	105	9.194	9.194	0.000	99	262778	20.0	21.3	
113 4-Chlorotoluene	91	9.237	9.237	0.000	98	210349	20.0	21.2	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	92	210541	20.0	21.1	
115 Butyl Methacrylate	87	9.621	9.621	0.000	84	77062	20.0	22.7	
116 tert-Butylbenzene	119	9.810	9.810	0.000	91	174035	20.0	20.1	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	97	208892	20.0	21.2	
118 sec-Butylbenzene	105	10.176	10.176	0.000	99	248809	20.0	21.0	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	96	121929	20.0	20.4	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	222481	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.414	10.414	0.000	90	123931	20.0	20.2	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	88	200350	20.0	20.2	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	97	203197	20.0	21.1	
124 Benzyl chloride	91	10.682	10.682	0.000	98	118330	20.0	19.6	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	90	211282	20.0	22.1	
126 1,2-Dichlorobenzene	146	10.999	10.999	0.000	95	112593	20.0	20.9	
127 p-Diethylbenzene	119	11.109	11.109	0.000	90	97423	20.0	20.7	
128 n-Butylbenzene	92	11.139	11.139	0.000	97	100766	20.0	21.9	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	82	12819	20.0	18.5	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	96	144595	20.0	19.6	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	96	58380	20.0	19.1	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	92	45605	20.0	18.0	
133 Hexachlorobutadiene	225	13.145	13.145	0.000	56	19516	20.0	17.8	
134 Naphthalene	128	13.151	13.151	0.000	99	125877	20.0	19.3	
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	95	41874	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,2-Dichloroethene, Total	100				0		40.0	39.4	
S 137 Xylenes, Total	100				0		40.0	39.9	
S 140 Total BTEX	1				0		100.0	96.0	
S 139 1,3-Dichloropropene, Total	1				0		40.0	37.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
524freon_00027	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Sep-2020 11:21:50 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38865.D

Injection Date: 08-Sep-2020 21:08:48 Instrument ID: CVOAMS15

Lims ID: LCS

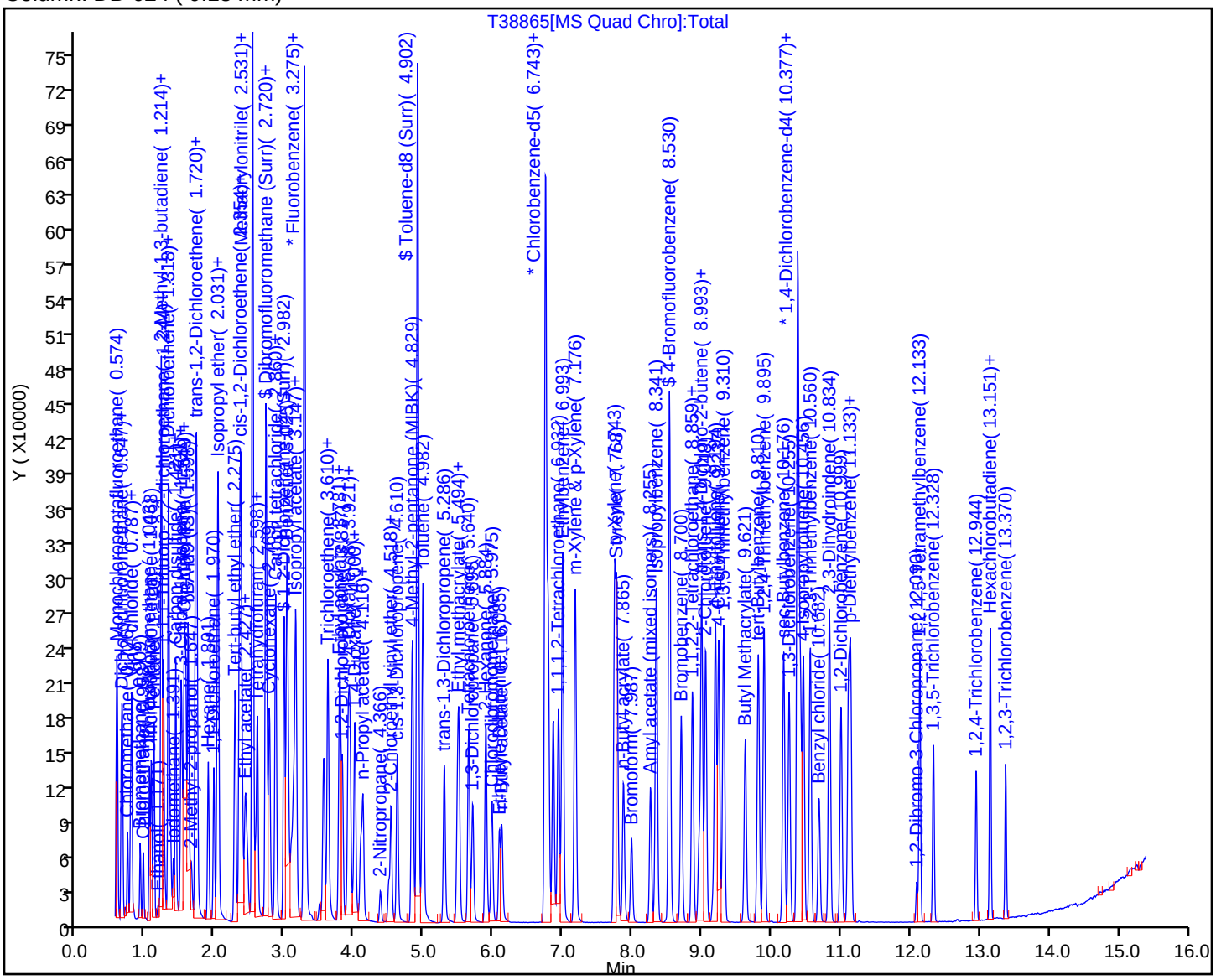
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-722587/5

Matrix: Water Lab File ID: T38866.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 21:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	16.4		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	22.5		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.3		1.0	0.43
75-34-3	1,1-Dichloroethane	17.8		1.0	0.26
75-35-4	1,1-Dichloroethene	20.2		1.0	0.26
87-61-6	1,2,3-Trichlorobenzene	19.6		1.0	0.36
120-82-1	1,2,4-Trichlorobenzene	19.1		1.0	0.37
78-87-5	1,2-Dichloropropane	23.7		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.5		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.6		1.0	0.33
123-91-1	1,4-Dioxane	422		50	28
78-93-3	2-Butanone (MEK)	95.8		5.0	1.9
591-78-6	2-Hexanone	97.3		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	94.4		5.0	1.3
67-64-1	Acetone	84.2		5.0	4.4
71-43-2	Benzene	21.4		1.0	0.20
75-25-2	Bromoform	18.2		1.0	0.54
74-83-9	Bromomethane	19.7		1.0	0.55
75-15-0	Carbon disulfide	20.1		1.0	0.82
56-23-5	Carbon tetrachloride	16.7		1.0	0.21
108-90-7	Chlorobenzene	20.4		1.0	0.38
74-97-5	Chlorobromomethane	21.2		1.0	0.41
124-48-1	Chlorodibromomethane	19.4		1.0	0.28
75-00-3	Chloroethane	20.5		1.0	0.32
67-66-3	Chloroform	20.2		1.0	0.33
74-87-3	Chloromethane	22.6		1.0	0.40
156-59-2	cis-1,2-Dichloroethene	20.4		1.0	0.22
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.22
110-82-7	Cyclohexane	19.3		1.0	0.32
75-27-4	Dichlorobromomethane	18.0		1.0	0.34
75-71-8	Dichlorodifluoromethane	16.0		1.0	0.31
100-41-4	Ethylbenzene	20.4		1.0	0.30
106-93-4	Ethylene Dibromide	18.4		1.0	0.50
98-82-8	Isopropylbenzene	20.2		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-722587/5

Matrix: Water Lab File ID: T38866.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/08/2020 21:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 722587 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	33.6		5.0	0.79
1634-04-4	Methyl tert-butyl ether	18.2		1.0	0.47
108-87-2	Methylcyclohexane	20.6		1.0	0.26
75-09-2	Methylene Chloride	20.9		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	20.2		1.0	0.30
95-47-6	o-Xylene	18.6		1.0	0.36
100-42-5	Styrene	20.7		1.0	0.42
127-18-4	Tetrachloroethene	18.9		1.0	0.25
108-88-3	Toluene	18.9		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	21.2		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.4		1.0	0.49
79-01-6	Trichloroethene	19.5		1.0	0.31
75-69-4	Trichlorofluoromethane	15.3		1.0	0.32
75-01-4	Vinyl chloride	23.4		1.0	0.17
107-06-2	1,2-Dichloroethane	16.2		1.0	0.43
95-50-1	1,2-Dichlorobenzene	21.3		1.0	0.43
96-12-8	1,2-Dibromo-3-Chloropropane	17.9		1.0	0.38

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		75-123
460-00-4	4-Bromofluorobenzene	86		76-120
1868-53-7	Dibromofluoromethane (Surr)	86		77-124
2037-26-5	Toluene-d8 (Surr)	92		80-120

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38866.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 08-Sep-2020 21:42:33 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0116442-005
Operator ID: Instrument ID: CVOAMS15

Method: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Sep-2020 11:20:41 Calib Date: 04-Sep-2020 15:01:54
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS15\20200904-116301.b\T38701.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: CTX1022

First Level Reviewer: parekhv Date: 08-Sep-2020 23:43:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.586	0.586	0.000	24	4431	20.0	6.79	
3 Chlorotrifluoroethene	116	0.635	0.635	0.000	58	17218	20.0	12.4	
2 1,1-Difluoroethane	65	0.635	0.635	0.000	93	34066	20.0	20.1	
4 Dichlorodifluoromethane	85	0.653	0.647	0.006	100	83393	20.0	16.0	
5 Chlorodifluoromethane	67	0.659	0.653	0.006	96	10987	20.0	15.9	
6 Chloromethane	50	0.726	0.726	0.000	98	65093	20.0	22.6	
7 Vinyl chloride	62	0.769	0.769	0.000	98	90563	20.0	23.4	
8 Butadiene	54	0.787	0.787	0.000	90	71093	20.0	21.8	
9 Bromomethane	94	0.909	0.909	0.000	98	33152	20.0	19.7	
10 Chloroethane	64	0.952	0.952	0.000	98	40633	20.0	20.5	
11 Dichlorofluoromethane	67	1.043	1.043	0.000	98	98778	20.0	16.3	
12 Trichlorofluoromethane	101	1.074	1.068	0.006	96	93992	20.0	15.3	
13 Pentane	72	1.110	1.104	0.006	96	19049	40.0	35.1	
14 Ethanol	45	1.165	1.165	0.000	96	8905	800.0	724.1	
15 Ethyl ether	59	1.208	1.208	0.000	55	48282	20.0	19.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	117	1.214	1.214	0.000	80	70522	20.0	19.8	
17 2-Methyl-1,3-butadiene	53	1.214	1.214	0.000	76	48648	20.0	17.7	
18 1,1,1-Trifluoro-2,2-dichloroetha	83	1.244	1.244	0.000	95	104144	20.0	19.6	
19 Acrolein	56	1.269	1.269	0.000	96	13545	40.0	45.2	
20 1,1-Dichloroethene	96	1.318	1.312	0.006	92	69412	20.0	20.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.318	1.318	0.000	80	72187	20.0	19.5	
22 Acetone	43	1.348	1.342	0.006	91	59965	100.0	84.2	
23 Iodomethane	142	1.391	1.391	0.000	96	43643	20.0	23.0	
24 Carbon disulfide	76	1.421	1.421	0.000	97	222356	20.0	20.1	
25 Isopropyl alcohol	45	1.427	1.427	0.000	30	25442	200.0	197.0	
26 Acetonitrile	40	1.494	1.494	0.000	83	29370	200.0	189.7	
27 3-Chloro-1-propene	76	1.500	1.501	0.000	94	45365	20.0	20.5	
28 Methyl acetate	43	1.519	1.519	0.000	94	63248	40.0	33.6	
29 Cyclopentene	67	1.543	1.543	0.000	93	153613	20.0	19.8	
30 Methylene Chloride	84	1.568	1.568	0.000	81	79206	20.0	20.9	
* 31 TBA-d9 (IS)	66	1.598	1.598	0.000	97	42898	1000.0	1000.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	1.647	1.641	0.006	98	49384	200.0	185.9	
33 Acrylonitrile	53	1.702	1.702	0.000	96	193360	200.0	193.0	
34 trans-1,2-Dichloroethene	96	1.720	1.720	0.000	87	81087	20.0	21.2	
35 Methyl tert-butyl ether	73	1.726	1.726	0.000	95	174289	20.0	18.2	
36 Hexane	57	1.891	1.891	0.000	86	65349	20.0	16.8	
37 1,1-Dichloroethane	63	1.970	1.970	0.000	99	110632	20.0	17.8	
38 Vinyl acetate	86	2.019	2.019	0.000	99	27666	40.0	50.2	
39 2-Chloro-1,3-butadiene	88	2.031	2.031	0.000	74	69792	20.0	19.6	
40 Isopropyl ether	45	2.031	2.031	0.000	80	159151	20.0	18.0	
41 Tert-butyl ethyl ether	59	2.275	2.275	0.000	91	168919	20.0	18.1	
* 42 2-Butanone-d5	46	2.336	2.336	0.000	87	261439	250.0	250.0	
44 2,2-Dichloropropane	97	2.360	2.354	0.006	74	25747	20.0	19.3	
43 cis-1,2-Dichloroethene	96	2.360	2.360	0.000	97	87813	20.0	20.4	
45 2-Butanone (MEK)	43	2.378	2.378	0.000	96	100774	100.0	95.8	
46 Propionitrile	54	2.415	2.415	0.000	99	70266	200.0	215.5	
47 Ethyl acetate	70	2.439	2.433	0.006	98	12373	40.0	45.1	
48 Methyl acrylate	55	2.458	2.452	0.006	97	53812	20.0	19.2	
50 Methacrylonitrile	67	2.525	2.525	0.000	80	270512	200.0	208.7	
49 Chlorobromomethane	128	2.531	2.525	0.006	54	43568	20.0	21.2	
51 Tetrahydrofuran	72	2.573	2.573	0.000	78	17831	40.0	52.7	
52 Chloroform	83	2.598	2.598	0.000	99	138536	20.0	20.2	
$ 53 Dibromofluoromethane (Surr)	113	2.720	2.720	0.000	97	180795	50.0	43.2	
54 1,1,1-Trichloroethane	97	2.726	2.726	0.000	70	104930	20.0	16.4	
55 Cyclohexane	84	2.769	2.769	0.000	81	98246	20.0	19.3	
56 Carbon tetrachloride	117	2.860	2.854	0.006	86	90111	20.0	16.7	
57 1,1-Dichloropropene	75	2.860	2.860	0.000	94	99511	20.0	18.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	65	2.982	2.982	0.000	97	159580	50.0	37.8	
59 Isobutyl alcohol	43	3.012	3.012	0.000	44	40793	500.0	511.5	
60 Benzene	78	3.025	3.025	0.000	94	295674	20.0	21.4	
61 1,2-Dichloroethane	62	3.043	3.043	0.000	60	76816	20.0	16.2	
62 Isooctane	57	3.116	3.116	0.000	99	125669	20.0	18.5	a
63 Isopropyl acetate	61	3.140	3.140	0.000	92	23025	20.0	21.7	
64 Tert-amyl methyl ether	73	3.153	3.153	0.000	85	179687	20.0	18.9	
* 65 Fluorobenzene	96	3.275	3.275	0.000	100	716601	50.0	50.0	
66 n-Heptane	43	3.299	3.299	0.000	71	43591	20.0	15.6	
67 Trichloroethene	95	3.610	3.610	0.000	95	81676	20.0	19.5	
68 n-Butanol	56	3.628	3.628	0.000	43	32183	500.0	593.2	
69 Ethyl acrylate	55	3.774	3.774	0.000	97	140602	20.0	19.7	
70 Methylcyclohexane	83	3.787	3.787	0.000	85	106005	20.0	20.6	
71 1,2-Dichloropropane	63	3.817	3.817	0.000	94	78480	20.0	23.7	
72 Dibromomethane	93	3.927	3.927	0.000	53	46690	20.0	20.1	
* 73 1,4-Dioxane-d8	96	3.933	3.939	-0.006	92	35214	1000.0	1000.0	
74 1,4-Dioxane	88	3.988	3.988	0.000	36	13834	400.0	421.9	
75 Methyl methacrylate	100	4.000	4.000	0.000	79	34971	40.0	40.8	
76 n-Propyl acetate	43	4.085	4.085	0.000	93	49377	20.0	14.1	
77 Dichlorobromomethane	83	4.116	4.116	0.000	95	91695	20.0	18.0	
78 2-Nitropropane	41	4.366	4.366	0.000	96	18921	40.0	28.2	
79 2-Chloroethyl vinyl ether	63	4.488	4.488	0.000	81	13496	20.0	10.5	
80 Epichlorohydrin	57	4.524	4.524	0.000	97	88012	400.0	369.6	
81 cis-1,3-Dichloropropene	75	4.610	4.610	0.000	81	112950	20.0	19.8	
82 4-Methyl-2-pentanone (MIBK)	43	4.829	4.829	0.000	90	185050	100.0	94.4	
$ 83 Toluene-d8 (Surr)	98	4.902	4.902	0.000	99	603388	50.0	46.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Toluene	91	4.982	4.982	0.000	92	285518	20.0	18.9	
85 trans-1,3-Dichloropropene	75	5.286	5.286	0.000	92	99664	20.0	19.4	
86 Ethyl methacrylate	69	5.475	5.475	0.000	82	79836	20.0	21.8	
87 1,1,2-Trichloroethane	83	5.500	5.500	0.000	94	57430	20.0	22.3	
88 Tetrachloroethene	166	5.640	5.640	0.000	91	77033	20.0	18.9	
89 1,3-Dichloropropane	76	5.695	5.695	0.000	86	112527	20.0	22.7	
90 2-Hexanone	43	5.884	5.884	0.000	89	129671	100.0	97.3	
91 Chlorodibromomethane	129	5.975	5.975	0.000	96	73828	20.0	19.4	
92 Ethylene Dibromide	107	6.079	6.079	0.000	98	62080	20.0	18.4	
93 n-Butyl acetate	43	6.115	6.116	-0.001	92	41733	20.0	11.7	
* 94 Chlorobenzene-d5	117	6.743	6.743	0.000	83	511427	50.0	50.0	
95 Chlorobenzene	112	6.780	6.786	-0.006	97	197157	20.0	20.4	
96 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.000	93	68262	20.0	18.7	
97 Ethylbenzene	106	6.993	6.993	0.000	97	103372	20.0	20.4	
98 m-Xylene & p-Xylene	106	7.176	7.176	0.000	0	126680	20.0	20.2	
99 o-Xylene	106	7.743	7.743	0.000	93	108825	20.0	18.6	
100 Styrene	104	7.774	7.774	0.000	97	193364	20.0	20.7	
101 n-Butyl acrylate	73	7.865	7.865	0.000	97	42487	20.0	21.2	
102 Bromoform	173	7.981	7.981	0.000	95	45507	20.0	18.2	
103 Amyl acetate (mixed isomers)	43	8.255	8.255	0.000	92	68920	20.0	18.4	
104 Isopropylbenzene	105	8.341	8.341	0.000	95	293479	20.0	20.2	
$ 105 4-Bromofluorobenzene	174	8.530	8.530	0.000	91	181109	50.0	43.0	
106 Bromobenzene	156	8.700	8.700	0.000	95	76677	20.0	20.5	
107 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	93	78218	20.0	22.5	
108 1,2,3-Trichloropropane	110	8.865	8.865	0.000	82	20106	20.0	19.2	
109 trans-1,4-Dichloro-2-butene	53	8.956	8.956	0.000	92	16740	20.0	18.0	
110 N-Propylbenzene	91	8.993	8.993	0.000	99	329340	20.0	20.1	
111 2-Chlorotoluene	91	9.048	9.048	0.000	95	204223	20.0	21.5	
112 4-Ethyltoluene	105	9.194	9.194	0.000	98	232477	20.0	18.2	
113 4-Chlorotoluene	91	9.237	9.237	0.000	96	220185	20.0	21.5	
114 1,3,5-Trimethylbenzene	105	9.310	9.310	0.000	93	210458	20.0	20.4	
115 Butyl Methacrylate	87	9.621	9.621	0.000	81	75135	20.0	21.4	
116 tert-Butylbenzene	119	9.810	9.810	0.000	91	178088	20.0	19.9	
117 1,2,4-Trimethylbenzene	105	9.895	9.895	0.000	96	203061	20.0	19.9	
118 sec-Butylbenzene	105	10.176	10.176	0.000	99	263988	20.0	21.6	
119 1,3-Dichlorobenzene	146	10.255	10.255	0.000	96	126330	20.0	20.5	
* 120 1,4-Dichlorobenzene-d4	152	10.377	10.377	0.000	95	229917	50.0	50.0	
121 1,4-Dichlorobenzene	146	10.413	10.414	-0.001	91	130238	20.0	20.6	
122 4-Isopropyltoluene	119	10.456	10.456	0.000	88	207069	20.0	20.2	
123 1,2,3-Trimethylbenzene	105	10.560	10.560	0.000	98	212555	20.0	21.3	
124 Benzyl chloride	91	10.682	10.682	0.000	98	117526	20.0	18.9	
125 2,3-Dihydroindene	117	10.834	10.834	0.000	89	214065	20.0	21.7	
126 1,2-Dichlorobenzene	146	10.999	10.999	0.000	95	118421	20.0	21.3	
127 p-Diethylbenzene	119	11.108	11.109	0.000	88	101471	20.0	20.8	
128 n-Butylbenzene	92	11.139	11.139	0.000	97	106008	20.0	22.3	
129 1,2-Dibromo-3-Chloropropane	157	12.090	12.090	0.000	88	12791	20.0	17.9	
130 1,2,4,5-Tetramethylbenzene	119	12.133	12.133	0.000	97	149825	20.0	19.6	
131 1,3,5-Trichlorobenzene	180	12.334	12.334	0.000	96	58877	20.0	18.6	
132 1,2,4-Trichlorobenzene	180	12.950	12.950	0.000	93	50174	20.0	19.1	
133 Hexachlorobutadiene	225	13.151	13.145	0.006	55	20407	20.0	18.0	
134 Naphthalene	128	13.151	13.151	0.000	99	131294	20.0	19.5	
135 1,2,3-Trichlorobenzene	180	13.370	13.370	0.000	92	39649	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,2-Dichloroethene, Total	100				0		40.0	41.6	
S 137 Xylenes, Total	100				0		40.0	38.8	
S 140 Total BTEX	1				0		100.0	99.4	
S 139 1,3-Dichloropropene, Total	1				0		40.0	39.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00125	Amount Added:	20.00	Units: uL	
ACROLEIN W_00112	Amount Added:	4.00	Units: uL	
GASES Li_00384	Amount Added:	20.00	Units: uL	
524freon_00027	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00038	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Sep-2020 11:22:39 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS15\20200908-116442.b\T38866.D

Injection Date: 08-Sep-2020 21:42:33 Instrument ID: CVOAMS15

Lims ID: LCSD

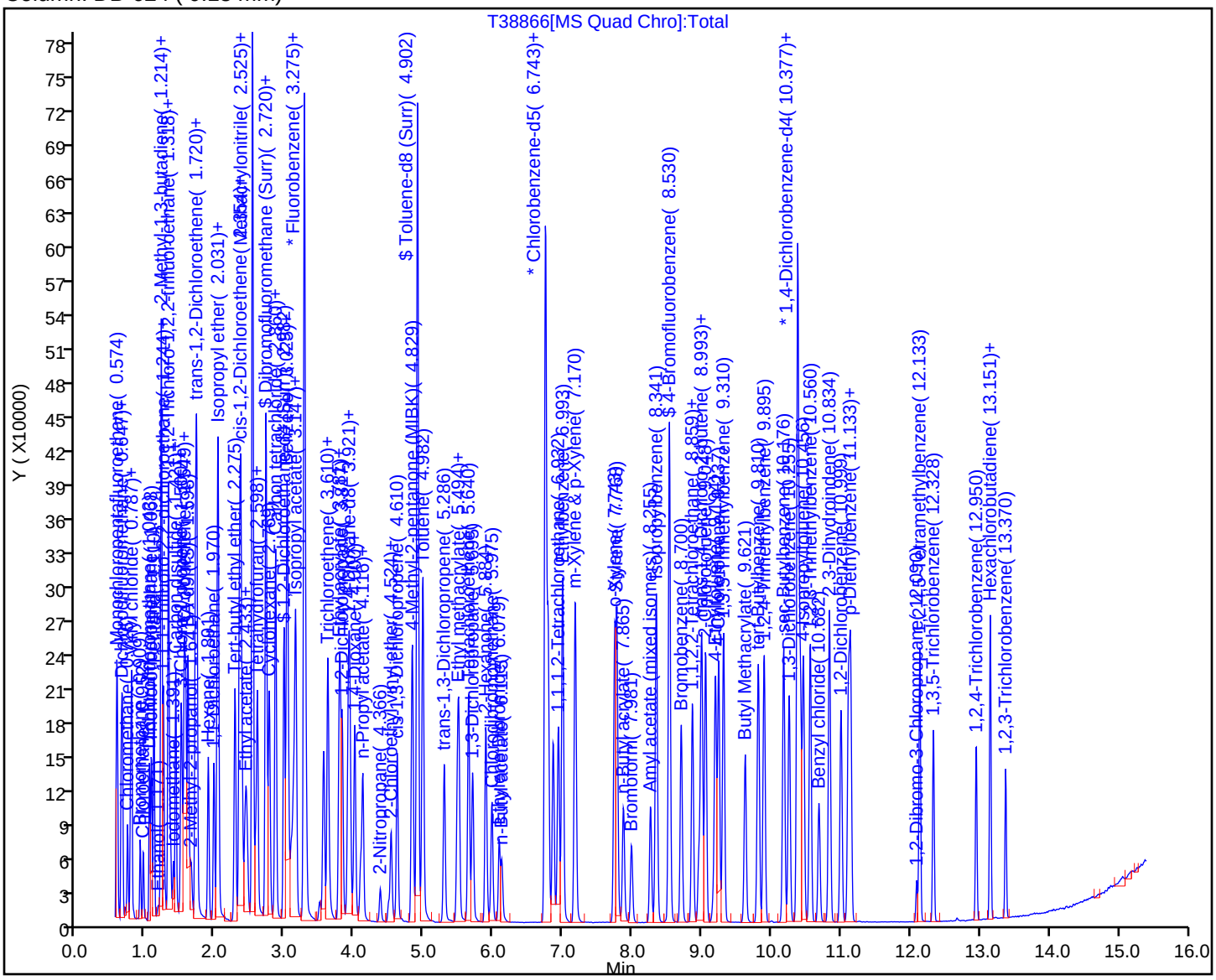
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Instrument ID: CVOAMS15 Start Date: 09/04/2020 11:28

Analysis Batch Number: 721958 End Date: 09/04/2020 19:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-721958/1		09/04/2020 11:28	1	T38692.D	DB-624 0.18(mm)
STD8 460-721958/3 IC		09/04/2020 12:13	1	T38694.D	DB-624 0.18(mm)
STD05 460-721958/4 IC		09/04/2020 12:37	1	T38695.D	DB-624 0.18(mm)
STD1 460-721958/5 IC		09/04/2020 13:01	1	T38696.D	DB-624 0.18(mm)
STD5 460-721958/6 IC		09/04/2020 13:25	1	T38697.D	DB-624 0.18(mm)
STD20 460-721958/7 ICIS		09/04/2020 13:49	1	T38698.D	DB-624 0.18(mm)
STD50 460-721958/8 IC		09/04/2020 14:13	1	T38699.D	DB-624 0.18(mm)
STD200 460-721958/9 IC		09/04/2020 14:37	1	T38700.D	DB-624 0.18(mm)
STD500 460-721958/10 IC		09/04/2020 15:01	1	T38701.D	DB-624 0.18(mm)
ICV 460-721958/17		09/04/2020 19:36	1	T38708.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Instrument ID: CVOAMS15 Start Date: 09/08/2020 20:05

Analysis Batch Number: 722587 End Date: 09/09/2020 05:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-722587/1		09/08/2020 20:05	1	T38862.D	DB-624 0.18(mm)
CCVIS 460-722587/2		09/08/2020 20:20	1	T38863.D	DB-624 0.18(mm)
LCS 460-722587/4		09/08/2020 21:08	1	T38865.D	DB-624 0.18(mm)
LCSD 460-722587/5		09/08/2020 21:42	1	T38866.D	DB-624 0.18(mm)
MB 460-722587/8		09/08/2020 22:54	1	T38869.D	DB-624 0.18(mm)
460-217659-8	FB	09/08/2020 23:18	1	T38870.D	DB-624 0.18(mm)
460-217659-9	TB	09/08/2020 23:42	1	T38871.D	DB-624 0.18(mm)
ZZZZZ		09/09/2020 00:06	1		DB-624 0.18(mm)
ZZZZZ		09/09/2020 00:30	1		DB-624 0.18(mm)
ZZZZZ		09/09/2020 00:54	1		DB-624 0.18(mm)
ZZZZZ		09/09/2020 01:18	1		DB-624 0.18(mm)
ZZZZZ		09/09/2020 01:41	1		DB-624 0.18(mm)
460-217659-1	MW-201	09/09/2020 02:05	1	T38877.D	DB-624 0.18(mm)
460-217659-2	MW-207	09/09/2020 02:29	1	T38878.D	DB-624 0.18(mm)
460-217659-3	MW-210	09/09/2020 02:53	1	T38879.D	DB-624 0.18(mm)
460-217659-4	MW-211	09/09/2020 03:17	1	T38880.D	DB-624 0.18(mm)
460-217659-5	MW-214	09/09/2020 03:41	1	T38881.D	DB-624 0.18(mm)
460-217659-6	MW-216	09/09/2020 04:05	1	T38882.D	DB-624 0.18(mm)
460-217659-7	MW-217	09/09/2020 04:29	1	T38883.D	DB-624 0.18(mm)
ZZZZZ		09/09/2020 04:53	1		DB-624 0.18(mm)
ZZZZZ		09/09/2020 05:17	1		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Batch Number: 721958 Batch Start Date: 09/04/20 11:28 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	14DIOXINTER 00118	524freon 00027	8260 SP 00129	8260MIX1COMB 00125
BFB 460-721958/1		8260C		5 mL	5 mL				
STD8 460-721958/3 IC		8260C		5 mL	5 mL				
STD05 460-721958/4 IC		8260C		5 mL	5 mL	15 uL	5 uL		5 uL
STD1 460-721958/5 IC		8260C		5 mL	5 mL	30 uL	10 uL		10 uL
STD5 460-721958/6 IC		8260C		5 mL	5 mL		10 uL		10 uL
STD20 460-721958/7 ICIS		8260C		5 mL	5 mL		20 uL		20 uL
STD50 460-721958/8 IC		8260C		5 mL	5 mL		50 uL		50 uL
STD200 460-721958/9 IC		8260C		5 mL	5 mL				
STD500 460-721958/10 IC		8260C		5 mL	5 mL				
ICV 460-721958/17		8260C		5 mL	5 mL			20 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	8FreonHi 00023	8FreonsSS 00023	ACROLEIN SP 00116	ACROLEIN W 00112	ACRY/EPIH MIX 00077	BFB 00026
BFB 460-721958/1		8260C							1 uL
STD8 460-721958/3 IC		8260C						20 uL	
STD05 460-721958/4 IC		8260C					2 uL		
STD1 460-721958/5 IC		8260C					4 uL		
STD5 460-721958/6 IC		8260C					4 uL		
STD20 460-721958/7 ICIS		8260C					4 uL		
STD50 460-721958/8 IC		8260C					10 uL		
STD200 460-721958/9 IC		8260C		20 uL			20 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Batch Number: 721958 Batch Start Date: 09/04/20 11:28 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	8FreonHi 00023	8FreonsSS 00023	ACROLEIN SP 00116	ACROLEIN W 00112	ACRY/EPIH MIX 00077	BFB 00026
STD500 460-721958/10 IC		8260C		50 uL			40 uL		
ICV 460-721958/17		8260C			20 uL	4 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	Ethanol mix 00043	GAS C SP 00372	GAS Hi 00370	GASES Li 00384	MIX 2 Hi 00102	MIX I Hi 00129
BFB 460-721958/1		8260C							
STD8 460-721958/3 IC		8260C					2.5 uL		
STD05 460-721958/4 IC		8260C					5 uL		
STD1 460-721958/5 IC		8260C					10 uL		
STD5 460-721958/6 IC		8260C					10 uL		
STD20 460-721958/7 ICIS		8260C					20 uL		
STD50 460-721958/8 IC		8260C					50 uL		
STD200 460-721958/9 IC		8260C		20 uL		20 uL		20 uL	20 uL
STD500 460-721958/10 IC		8260C		50 uL		50 uL		50 uL	50 uL
ICV 460-721958/17		8260C			20 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00038					
BFB 460-721958/1		8260C							
STD8 460-721958/3 IC		8260C		5 uL					
STD05 460-721958/4 IC		8260C		5 uL					
STD1 460-721958/5 IC		8260C		5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Batch Number: 721958 Batch Start Date: 09/04/20 11:28 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00038					
STD5 460-721958/6 IC		8260C		5 uL					
STD20 460-721958/7 ICIS		8260C		5 uL					
STD50 460-721958/8 IC		8260C		5 uL					
STD200 460-721958/9 IC		8260C		5 uL					
STD500 460-721958/10 IC		8260C		5 uL					
ICV 460-721958/17		8260C		5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Batch Number: 722587 Batch Start Date: 09/08/20 20:05 Batch Analyst: Parekh, Vyomesh B

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	524freon 00027	8260MIX1COMB 00125	ACROLEIN W 00112
BFB 460-722587/1		8260C		5 mL	5 mL				
CCVIS 460-722587/2		8260C		5 mL	5 mL		20 uL	20 uL	4 uL
LCS 460-722587/4		8260C		5 mL	5 mL		20 uL	20 uL	4 uL
LCSD 460-722587/5		8260C		5 mL	5 mL		20 uL	20 uL	4 uL
MB 460-722587/8		8260C		5 mL	5 mL				
460-217659-B-8	FB	8260C	T	5 mL	5 mL	<2 SU			
460-217659-A-9	TB	8260C	T	5 mL	5 mL	<2 SU			
460-217659-A-1	MW-201	8260C	T	5 mL	5 mL	<2 SU			
460-217659-A-2	MW-207	8260C	T	5 mL	5 mL	<2 SU			
460-217659-A-3	MW-210	8260C	T	5 mL	5 mL	<2 SU			
460-217659-A-4	MW-211	8260C	T	5 mL	5 mL	<2 SU			
460-217659-A-5	MW-214	8260C	T	5 mL	5 mL	<2 SU			
460-217659-B-6	MW-216	8260C	T	5 mL	5 mL	<2 SU			
460-217659-B-7	MW-217	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00026	GASES Li 00384	VOA6IS/SURR 00038			
BFB 460-722587/1		8260C		1 uL					
CCVIS 460-722587/2		8260C			20 uL	5 uL			
LCS 460-722587/4		8260C			20 uL	5 uL			
LCSD 460-722587/5		8260C			20 uL	5 uL			
MB 460-722587/8		8260C				5 uL			
460-217659-B-8	FB	8260C	T			5 uL			
460-217659-A-9	TB	8260C	T			5 uL			
460-217659-A-1	MW-201	8260C	T			5 uL			
460-217659-A-2	MW-207	8260C	T			5 uL			
460-217659-A-3	MW-210	8260C	T			5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-217659-1

SDG No.:

Batch Number: 722587 Batch Start Date: 09/08/20 20:05 Batch Analyst: Parekh, Vyomesh B

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00026	GASES Li 00384	VOA6IS/SURR 00038			
460-217659-A-4	MW-211	8260C	T			5 uL			
460-217659-A-5	MW-214	8260C	T			5 uL			
460-217659-B-6	MW-216	8260C	T			5 uL			
460-217659-B-7	MW-217	8260C	T			5 uL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method PFC IDA

Fluorinated Hydrocarbons by Method PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
MW-201	460-217659-1	84	90	100	95	99	106	107	95
MW-207	460-217659-2	51	55	75	70	70	77	109	69
MW-210	460-217659-3	56	63	84	71	71	86	85	66
MW-211	460-217659-4	78	84	99	92	93	99	104	87
MW-214	460-217659-5	56	62	87	79	79	92	120	76
MW-216	460-217659-6	34	37	44	43	43	48	59	41
MW-217	460-217659-7	43	50	79	63	64	85	106	63
FB	460-217659-8	83	87	98	88	86	93	93	81
	MB 320-410906/1-A	90	94	98	93	91	100	99	90
	LCS 320-410906/2-A	90	89	101	93	89	99	93	84
	LCSD 320-410906/3-A	88	91	96	88	87	97	98	85

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHxS = 18O2 PFHxS	25-150
C4PFHA = 13C4 PFHpA	25-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFOSA #	M282FTS #	PFDA #	d3NMFOS #	d5NEFOS #	PFUnA #
MW-201	460-217659-1	106	99	93	115	90	91	96	91
MW-207	460-217659-2	74	67	59	83	64	52	56	56
MW-210	460-217659-3	81	69	68	89	70	62	66	65
MW-211	460-217659-4	95	93	79	110	88	76	87	85
MW-214	460-217659-5	86	80	75	96	79	67	77	80
MW-216	460-217659-6	43	44	39	55	42	35	38	35
MW-217	460-217659-7	82	68	67	100	65	62	69	63
FB	460-217659-8	92	86	80	93	82	77	82	77
	MB 320-410906/1-A	97	91	83	106	90	87	90	91
	LCS 320-410906/2-A	94	88	85	105	87	82	84	82
	LCSD 320-410906/3-A	94	87	83	99	82	82	86	85

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFNA = 13C5 PFNA	25-150
PFOSA = 13C8 FOSA	25-150
M282FTS = M2-8:2 FTS	25-150
PFDA = 13C2 PFDA	25-150
d3NMFOS = d3-NMeFOSAA	25-150
d5NEFOS = d5-NEtFOSAA	25-150
PFUnA = 13C2 PFUnA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
MW-201	460-217659-1	77	88
MW-207	460-217659-2	49	48
MW-210	460-217659-3	58	60
MW-211	460-217659-4	72	76
MW-214	460-217659-5	70	74
MW-216	460-217659-6	31	28
MW-217	460-217659-7	58	52
FB	460-217659-8	77	68
	MB 320-410906/1-A	79	79
	LCS 320-410906/2-A	75	73
	LCSD 320-410906/3-A	75	69

	QC LIMITS
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2 PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A13_PFC_A_060.d

Lab ID: LCS 320-410906/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	41.57	104	76-136	
Perfluoropentanoic acid (PFPeA)	40.0	39.75	99	71-131	
Perfluorohexanoic acid (PFHxA)	40.0	41.17	103	73-133	
Perfluoroheptanoic acid (PFHpA)	40.0	41.33	103	72-132	
Perfluorooctanoic acid (PFOA)	40.0	40.45	101	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.87	107	75-135	
Perfluorodecanoic acid (PFDA)	40.0	39.95	100	76-136	
Perfluoroundecanoic acid (PFUnA)	40.0	40.85	102	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	42.34	106	71-131	
Perfluorotridecanoic acid (PFTriA)	40.0	42.64	107	71-131	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.43	99	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	34.17	97	67-127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.74	93	59-119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.47	104	76-136	
Perfluorooctanesulfonic acid (PFOS)	37.1	38.86	105	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	37.63	98	71-131	
Perfluorooctanesulfonamide (FOSA)	40.0	40.01	100	73-133	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.21	106	76-136	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.74	97	76-136	
6:2 FTS	37.9	37.38	99	59-175	
8:2 FTS	38.3	36.84	96	75-135	
13C4 PFBA	100	89.70	90	25-150	
13C5 PFPeA	100	89.30	89	25-150	
13C2 PFHxA	100	92.65	93	25-150	
13C4 PFHpA	100	88.94	89	25-150	
13C4 PFOA	100	83.84	84	25-150	
13C5 PFNA	100	87.50	88	25-150	
13C2 PFDA	100	87.33	87	25-150	
13C2 PFUnA	100	82.30	82	25-150	
13C2 PFDoA	100	74.70	75	25-150	
13C2 PFTeDA	100	72.85	73	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A13_PFC_A_060.d

Lab ID: LCS 320-410906/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C3 PFBS	93.0	93.61	101	25-150	
18O2 PFHxS	94.6	93.88	99	25-150	
13C4 PFOS	95.6	89.45	94	25-150	
13C8 FOSA	100	85.09	85	25-150	
d3-NMeFOSAA	100	82.21	82	25-150	
d5-NEtFOSAA	100	84.40	84	25-150	
M2-6:2 FTS	95.0	88.65	93	25-150	
M2-8:2 FTS	95.8	100.3	105	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A13_PFC_A_061.d

Lab ID: LCSD 320-410906/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	40.94	102	2	30	76-136	
Perfluoropentanoic acid (PFPeA)	40.0	37.79	94	5	30	71-131	
Perfluorohexanoic acid (PFHxA)	40.0	38.69	97	6	30	73-133	
Perfluoroheptanoic acid (PFHpA)	40.0	39.70	99	4	30	72-132	
Perfluorooctanoic acid (PFOA)	40.0	39.54	99	2	30	70-130	
Perfluorononanoic acid (PFNA)	40.0	39.84	100	7	30	75-135	
Perfluorodecanoic acid (PFDA)	40.0	39.91	100	0	30	76-136	
Perfluoroundecanoic acid (PFUnA)	40.0	38.05	95	7	30	68-128	
Perfluorododecanoic acid (PFDoA)	40.0	42.61	107	1	30	71-131	
Perfluorotridecanoic acid (PFTriA)	40.0	38.43	96	10	30	71-131	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.06	103	4	30	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	34.86	99	2	30	67-127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.49	89	4	30	59-119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.52	101	2	30	76-136	
Perfluorooctanesulfonic acid (PFOS)	37.1	36.48	98	6	30	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	36.88	96	2	30	71-131	
Perfluorooctanesulfonamide (FOSA)	40.0	40.35	101	1	30	73-133	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.43	104	2	30	76-136	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.81	97	0	30	76-136	
6:2 FTS	37.9	37.38	99	0	30	59-175	
8:2 FTS	38.3	36.01	94	2	30	75-135	
13C4 PFBA	100	87.55	88			25-150	
13C5 PFPeA	100	90.68	91			25-150	
13C2 PFHxA	100	88.41	88			25-150	
13C4 PFHpA	100	86.93	87			25-150	
13C4 PFOA	100	84.68	85			25-150	
13C5 PFNA	100	87.04	87			25-150	
13C2 PFDA	100	81.83	82			25-150	
13C2 PFUnA	100	85.38	85			25-150	
13C2 PFDoA	100	74.73	75			25-150	
13C2 PFTeDA	100	69.05	69			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2020.09.10_A13_PFC_A_061.d

Lab ID: LCSD 320-410906/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C3 PFBS	93.0	89.56	96			25-150	
18O2 PFHxS	94.6	91.96	97			25-150	
13C4 PFOS	95.6	89.44	94			25-150	
13C8 FOSA	100	82.90	83			25-150	
d3-NMeFOSAA	100	81.93	82			25-150	
d5-NEtFOSAA	100	85.58	86			25-150	
M2-6:2 FTS	95.0	93.12	98			25-150	
M2-8:2 FTS	95.8	95.05	99			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab File ID: 2020.09.10_A13_PFC_A_059.d Lab Sample ID: MB 320-410906/1-A

Matrix: Water Date Extracted: 09/09/2020 18:39

Instrument ID: A13 Date Analyzed: 09/10/2020 18:07

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-410906/2-A	2020.09.10_A13_PFC_A_060.d	09/10/2020 18:17
	LCSD 320-410906/3-A	2020.09.10_A13_PFC_A_061.d	09/10/2020 18:26
MW-201	460-217659-1	2020.09.10_A13_PFC_A_062.d	09/10/2020 18:36
MW-207	460-217659-2	2020.09.10_A13_PFC_A_063.d	09/10/2020 18:45
MW-210	460-217659-3	2020.09.10_A13_PFC_A_064.d	09/10/2020 18:54
MW-211	460-217659-4	2020.09.10_A13_PFC_A_065.d	09/10/2020 19:04
MW-214	460-217659-5	2020.09.10_A13_PFC_A_066.d	09/10/2020 19:13
MW-216	460-217659-6	2020.09.10_A13_PFC_A_067.d	09/10/2020 19:23
MW-217	460-217659-7	2020.09.10_A13_PFC_A_068.d	09/10/2020 19:32
FB	460-217659-8	2020.09.10_A13_PFC_A_071.d	09/10/2020 20:00

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Sample No.: IC 320-410486/5 Date Analyzed: 09/08/2020 18:30

Instrument ID: A13 GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2020.09.08_A13_PFC_ Heated Purge: (Y/N) N

Calibration ID: 51771

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		10686922	4.06				
UPPER LIMIT		16030383	4.26				
LOWER LIMIT		5343461	3.86				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-410486/9		10961287	4.06				
ICV 320-410486/10		11250632	4.06				
CCV 320-410989/3 CCVIS		10441921	4.07				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Sample No.: CCV 320-410989/3 Date Analyzed: 09/10/2020 10:55

Instrument ID: A13 GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2020.09.10_A13_PFC_ Heated Purge: (Y/N) N

Calibration ID: 51771

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		10441921	4.07				
UPPER LIMIT		15662882	4.27				
LOWER LIMIT		5220961	3.87				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-410989/1		10666800	4.08				
CCVL 320-410989/2		10307380	4.08				
CCV 320-411143/1		9979910	4.05				
MB 320-410906/1-A		11066836	4.05				
LCS 320-410906/2-A		10619287	4.05				
LCSD 320-410906/3-A		11572344	4.05				
460-217659-1	MW-201	10461384	4.04				
460-217659-2	MW-207	10527068	4.05				
460-217659-3	MW-210	11157963	4.04				
460-217659-4	MW-211	10452536	4.05				
460-217659-5	MW-214	10775355	4.04				
460-217659-6	MW-216	9896975	4.05				
460-217659-7	MW-217	11890889	4.04				
CCV 320-411143/13		10014836	4.05				
460-217659-8	FB	10757736	4.05				
CCV 320-411143/22		9993829	4.05				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-201 Lab Sample ID: 460-217659-1

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_062.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 09:10

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 265.7(mL) Date Analyzed: 09/10/2020 18:36

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.51	J B	1.88	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.46	U	1.88	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	0.55	U	1.88	0.55
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24	U	1.88	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	0.80	U	1.88	0.80
375-95-1	Perfluorononanoic acid (PFNA)	0.25	U	1.88	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.29	U	1.88	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.04	U	1.88	1.04
307-55-1	Perfluorododecanoic acid (PFDoA)	0.52	U	1.88	0.52
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.22	U	1.88	1.22
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.88	0.27
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.19	U	1.88	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.33	J B	1.88	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.18	U	1.88	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.57	J	1.88	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.88	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.33	U	1.88	0.33
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.92	U	18.8	2.92
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79	U	18.8	1.79
27619-97-2	6:2 FTS	11.0	J	18.8	1.88
39108-34-4	8:2 FTS	1.88	U	18.8	1.88

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-201 Lab Sample ID: 460-217659-1

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_062.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 09:10

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 265.7(mL) Date Analyzed: 09/10/2020 18:36

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	84		25-150
STL01893	13C5 PFPeA	90		25-150
STL00993	13C2 PFHxA	95		25-150
STL01892	13C4 PFHpA	99		25-150
STL00990	13C4 PFOA	95		25-150
STL00995	13C5 PFNA	99		25-150
STL00996	13C2 PFDA	90		25-150
STL00997	13C2 PFUnA	91		25-150
STL00998	13C2 PFDoA	77		25-150
STL02116	13C2 PFTeDA	88		25-150
STL02337	13C3 PFBS	100		25-150
STL00994	18O2 PFHxS	106		25-150
STL00991	13C4 PFOS	106		25-150
STL01056	13C8 FOSA	93		25-150
STL02118	d3-NMeFOSAA	91		25-150
STL02117	d5-NEtFOSAA	96		25-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	115		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d
Lims ID: 460-217659-D-1-A
Client ID: MW-201
Sample Type: Client
Inject. Date: 10-Sep-2020 18:36:07 ALS Bottle#: 35 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-1-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:52:52 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 08:52:52
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.610	7437954	2.09		83.7	9241	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.467	2.482	-0.015	1.000	30218	0.0137			2.8	
D 4 13C5 PFPeA										
267.90 > 223.00	2.856	2.867	-0.011	0.706	6266013	2.26		90.4	9801	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.867	0.0	1.004	26819	0.0104			1.0	
D 14 13C3 PFBS										
301.90 > 80.00	2.902	2.913	-0.011	0.718	8102419	2.33		100	3001	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.902	2.913	-0.011	1.000	8034	0.002358	Target=2.29		1.3	M
298.90 > 99.00	2.902	2.913	-0.011	1.000	4821		1.67(1.15-3.44)		0.9	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.247	3.258	-0.011	1.000	39682	0.0131	Target=13.52		1.6	
313.00 > 119.00	3.258	3.258	0.0	1.003	2969		13.37(6.76-20.28)		1.4	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.803	8161188	2.38		95.3	9775	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.904	5690592	2.50		106	3394	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.645	3.665	-0.020	0.997	12101	0.003602	Target=3.87		0.7	M
363.00 > 169.00	3.655	3.665	-0.010	1.000	3847		3.15(1.93-5.80)		1.6	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	23613	0.008822	Target=3.08		10.7	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	6608		3.57(1.54-4.62)		3.0	
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.904	8308857	2.46		98.6	8434	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.034	4.042	-0.008	0.998	2495815	2.54		107	1172	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	0.998	736232	0.2911			365	
D 24 13C4 PFOA										
417.00 > 372.00	4.042	4.059	-0.017	1.000	9805343	2.38		95.2	4964	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.042	4.059	-0.017	1.000	50769	0.0127	Target=2.99		5.3	M
413.00 > 169.00	4.051	4.059	-0.008	1.002	15446		3.29(1.50-4.49)		11.9	M
* 25 13C2 PFOA										
415.00 > 370.00	4.042	4.059	-0.017		10461384	2.50			6784	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.418	4.425	-0.007	1.002	27145	0.0152	Target=4.13		10.3	M
499.00 > 99.00	4.401	4.425	-0.024	0.998	6756		4.02(2.06-6.19)		4.4	M
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.091	4117593	2.53		106	2133	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.095	9405116	2.47		98.8	15906	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.171	5440117	2.33		93.1	9711	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	11771	0.005765			44.7	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.184	10386343	2.25		90.1	8356	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.777	4.802	-0.025	1.182	3585334	2.76		115	3610	
39 8:2 FTS										
527.00 > 507.00	4.786	4.802	-0.016	1.002	6242	0.001687			28.1	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.942	4.959	-0.017	1.223	5387367	2.27		90.6	4895	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.263	10300497	2.28		91.3	4556	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.106	5.123	-0.017	1.263	5515765	2.40		95.8	3745	
48 NEtFOSA										M
584.00 > 419.00	5.106	5.132	-0.026	1.000	5908	0.003459			15.5	M
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.335	9397249	1.94		77.4	7489	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.396	5.409	-0.013	1.000	9601	0.002800	Target=9.00		6.1	
613.00 > 169.00	5.387	5.409	-0.022	0.998	803		11.96(4.50-13.49)		5.6	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.905	5.920	-0.015	1.461	10491566	2.19		87.5	13176	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:52:53 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d

Injection Date: 10-Sep-2020 18:36:07 Instrument ID: A13

Lims ID: 460-217659-D-1-A Lab Sample ID: 320-217659-1

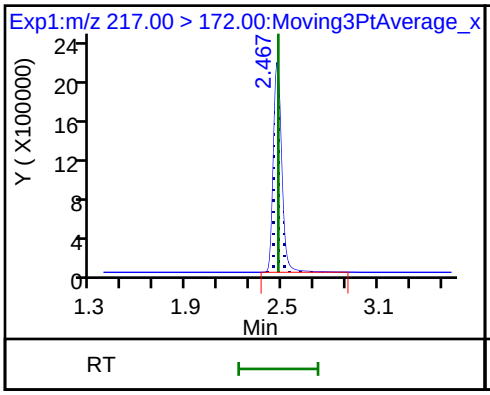
Client ID: MW-201

Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 5

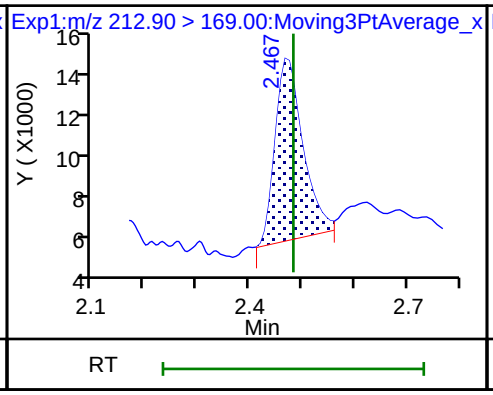
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

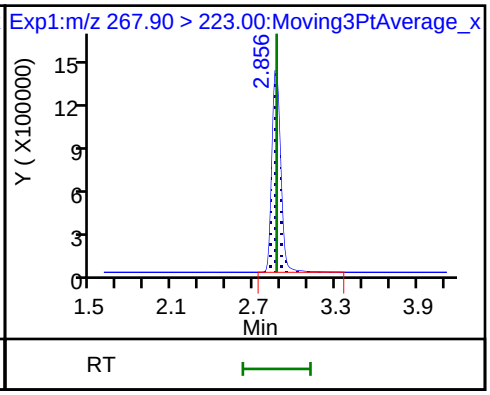
D 1 13C4 PFBA



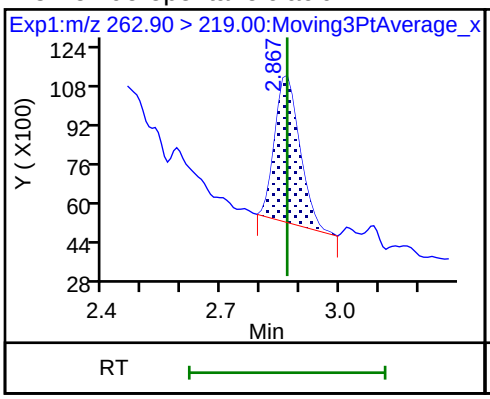
2 Perfluorobutanoic acid



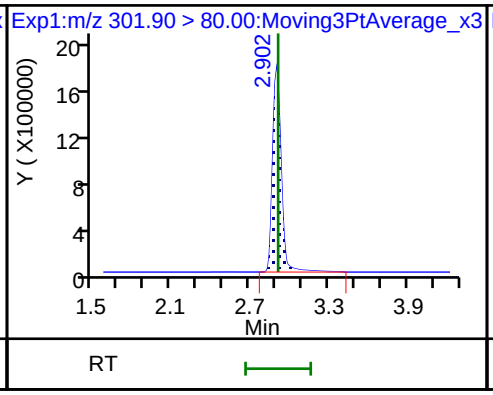
D 4 13C5 PFPeA



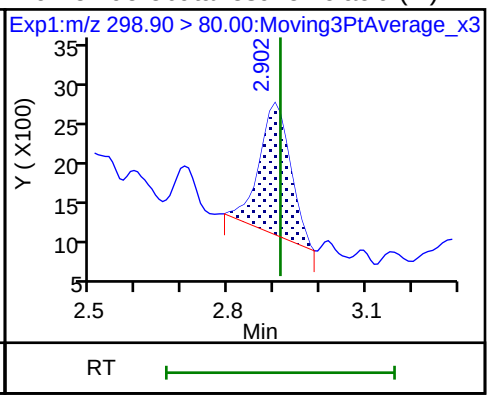
5 Perfluoropentanoic acid



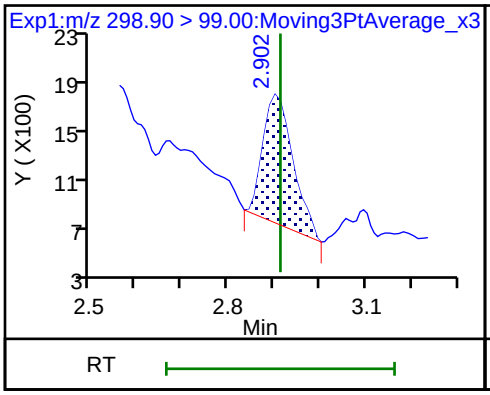
D 14 13C3 PFBS



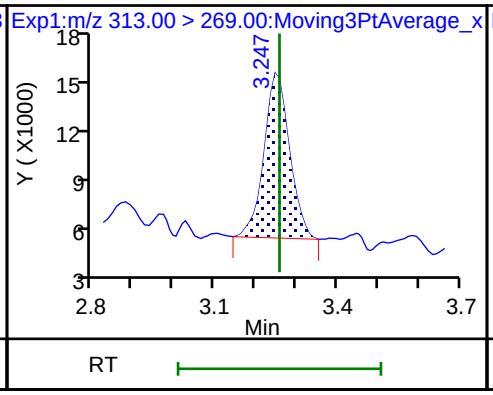
6 Perfluorobutanesulfonic acid (M)



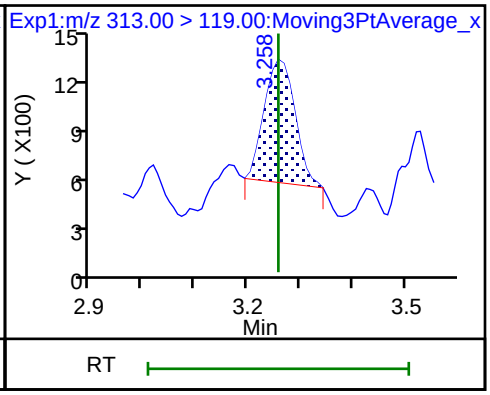
6 Perfluorobutanesulfonic acid



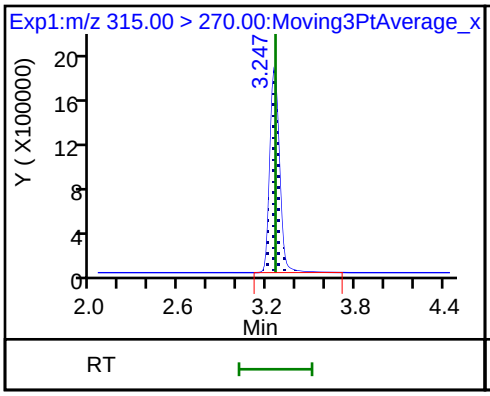
10 Perfluorohexanoic acid



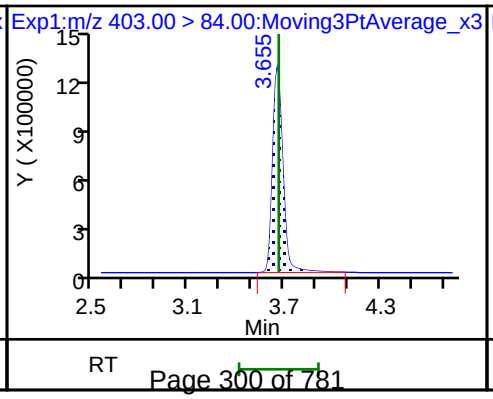
10 Perfluorohexanoic acid



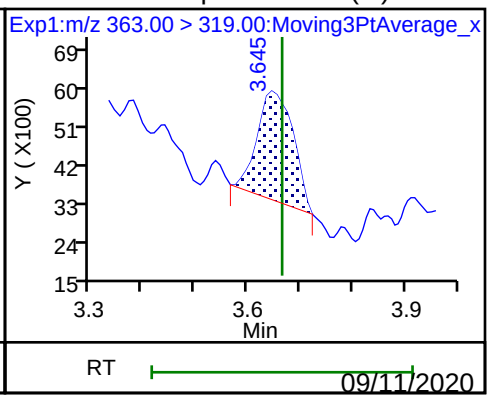
D 9 13C2 PFHxA



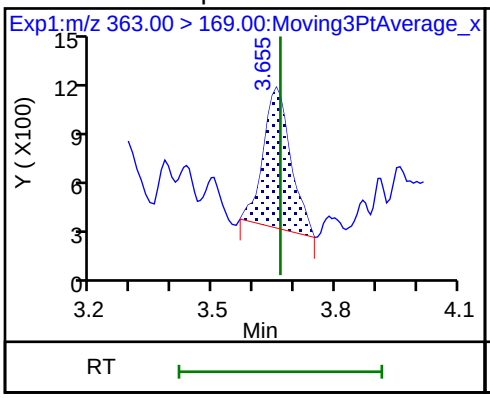
D 17 18O2 PFHxS



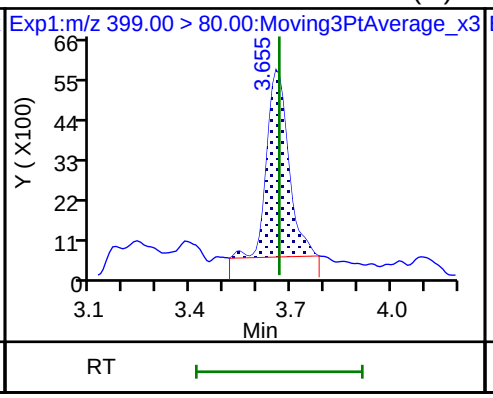
16 Perfluoroheptanoic acid (M)



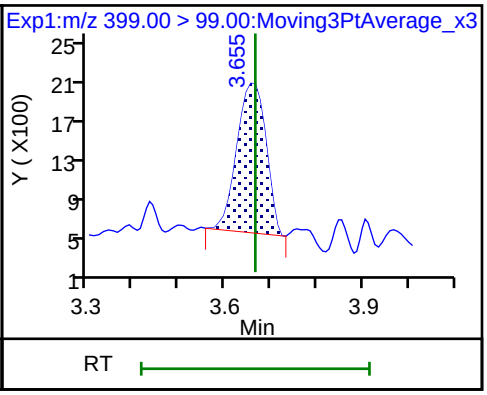
16 Perfluoroheptanoic acid



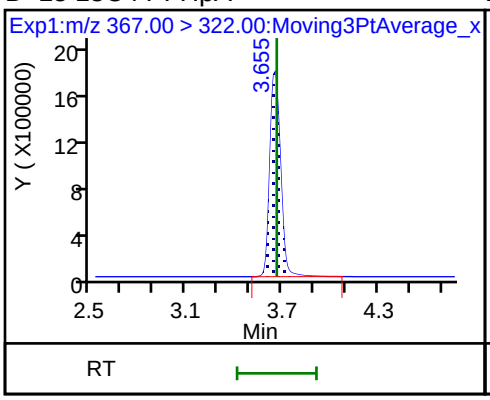
18 Perfluorohexanesulfonic acid (M)



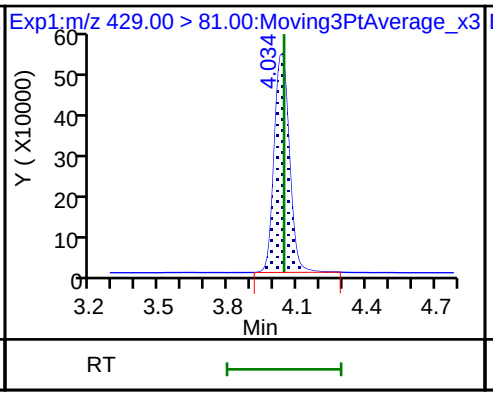
18 Perfluorohexanesulfonic acid



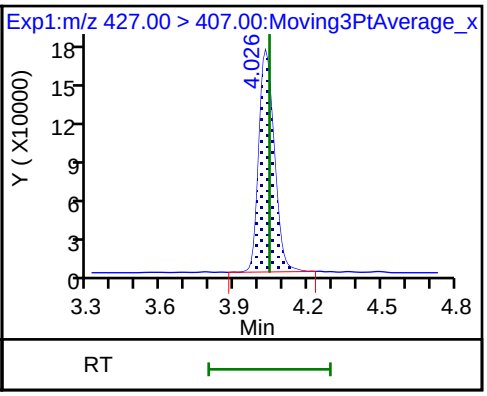
D 15 13C4 PFHpA



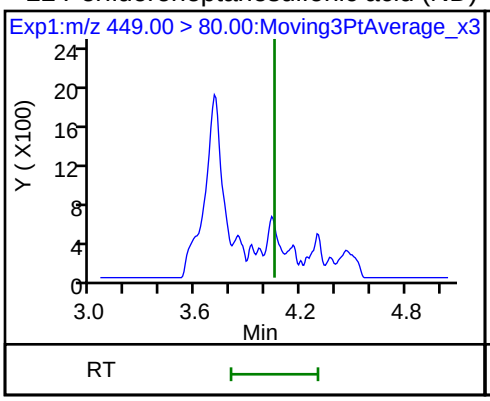
D 20 M2-6:2 FTS



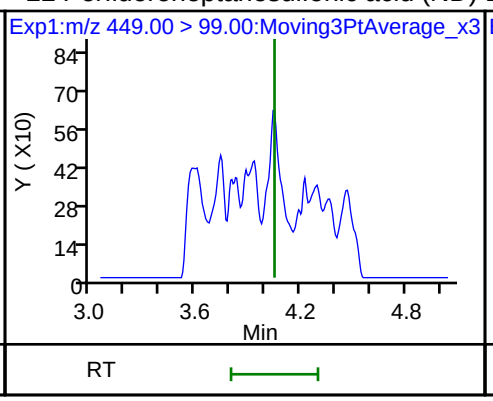
21 6:2 FTS



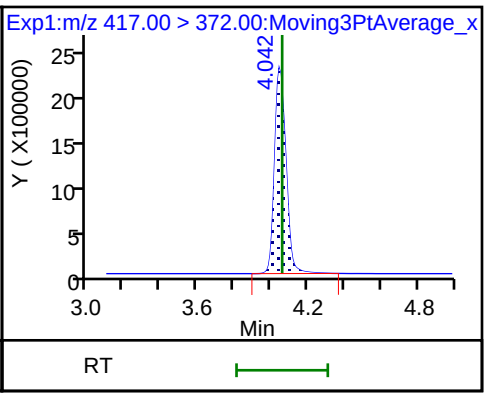
22 Perfluoroheptanesulfonic acid (ND)



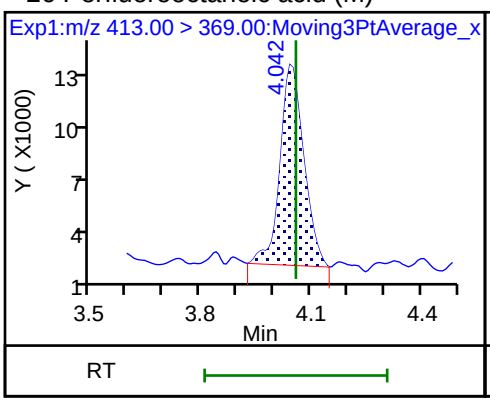
22 Perfluoroheptanesulfonic acid (ND)



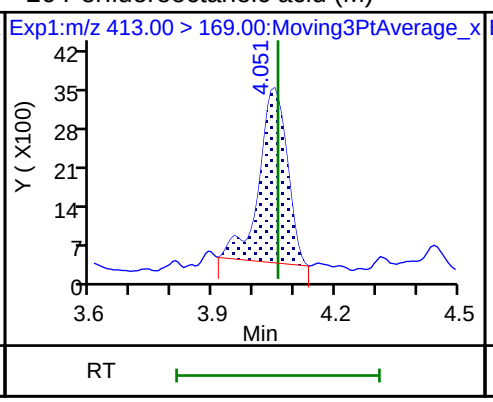
D 24 13C4 PFOA



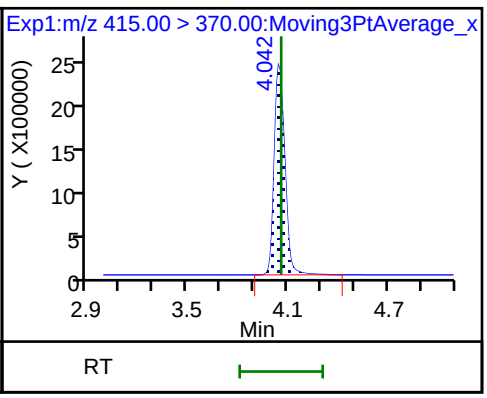
26 Perfluorooctanoic acid (M)



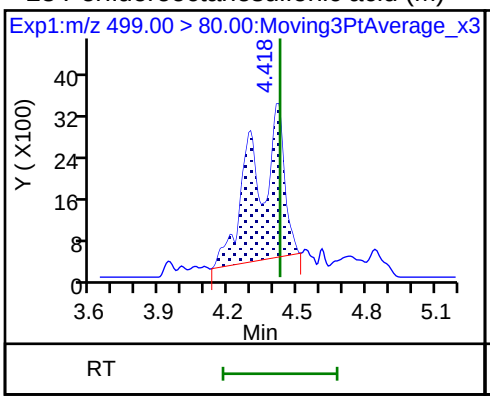
26 Perfluorooctanoic acid (M)



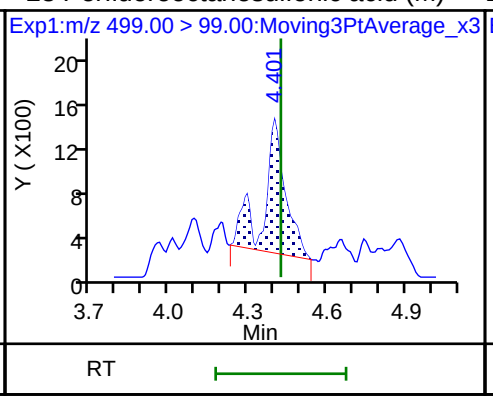
* 25 13C2 PFOA



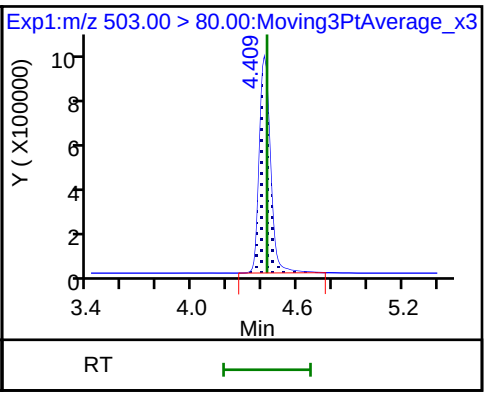
28 Perfluorooctanesulfonic acid (M)



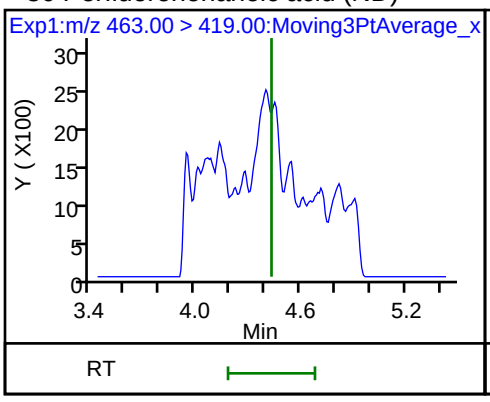
28 Perfluorooctanesulfonic acid (M)



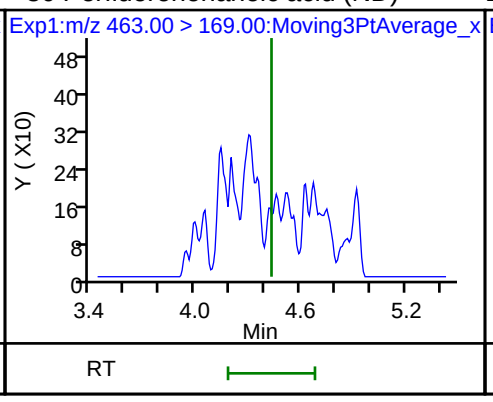
D 29 13C4 PFOS



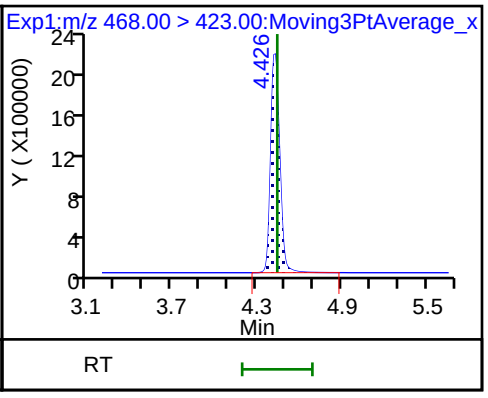
30 Perfluorononanoic acid (ND)



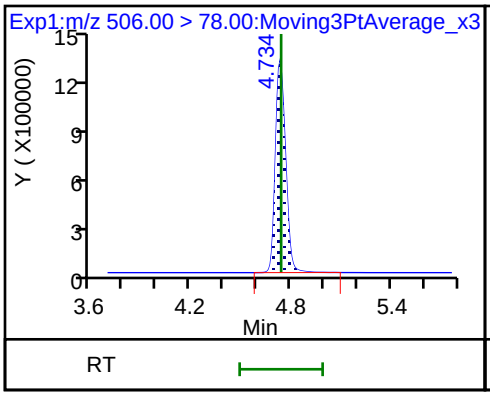
30 Perfluorononanoic acid (ND)



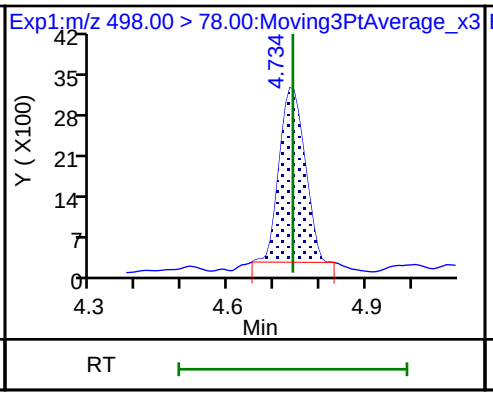
D 31 13C5 PFNA



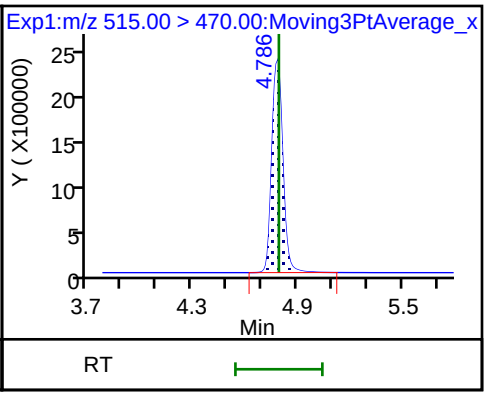
D 34 13C8 FOSA



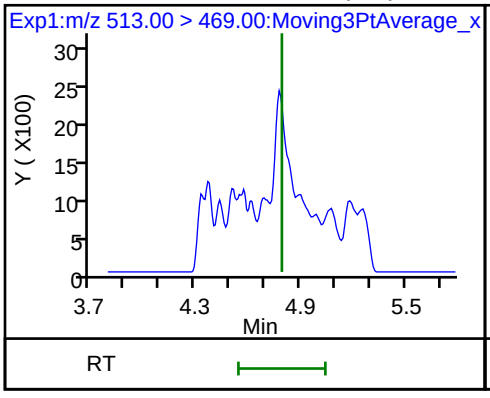
33 Perfluorooctanesulfonamide



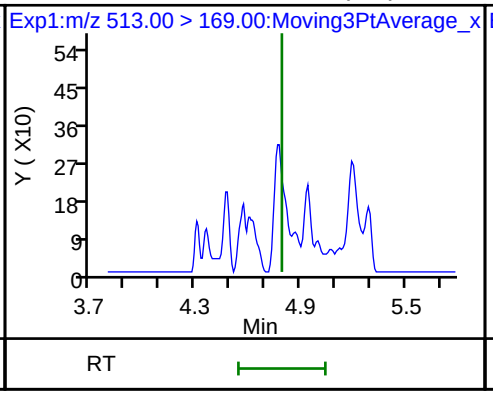
D 37 13C2 PFDA



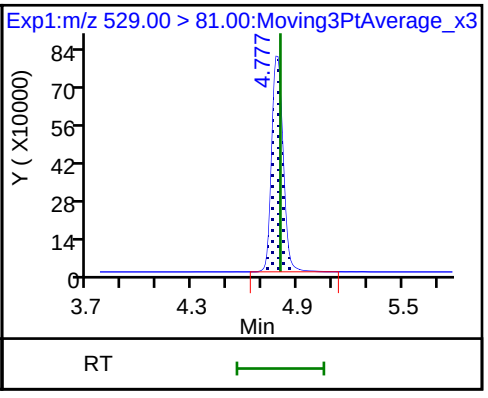
36 Perfluorodecanoic acid (ND)



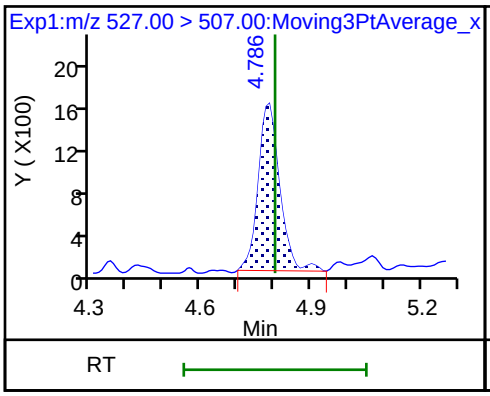
36 Perfluorodecanoic acid (ND)



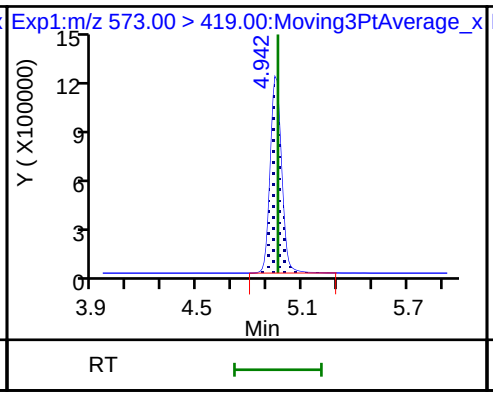
D 38 M2-8:2 FTS



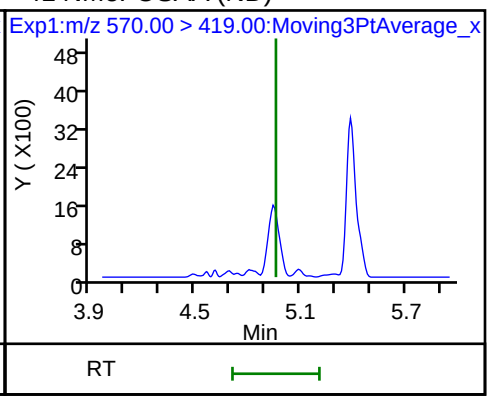
39 8:2 FTS



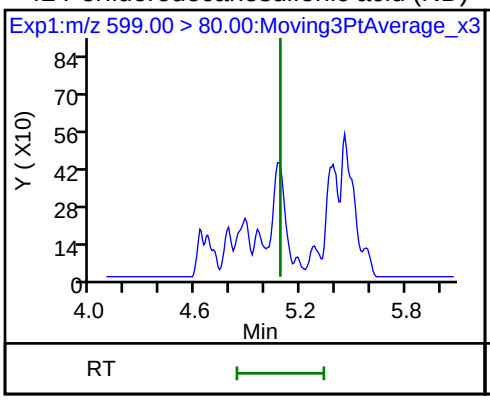
D 40 d3-NMeFOSAA



41 NMeFOSAA (ND)



42 Perfluorodecanesulfonic acid (ND)



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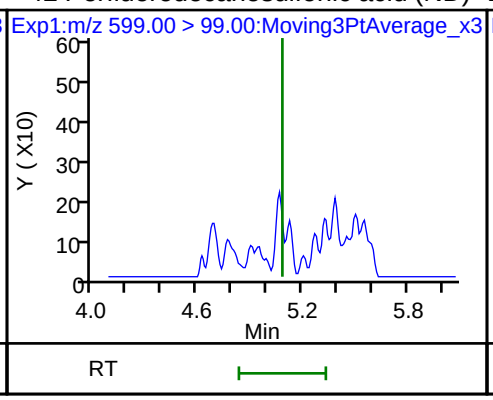
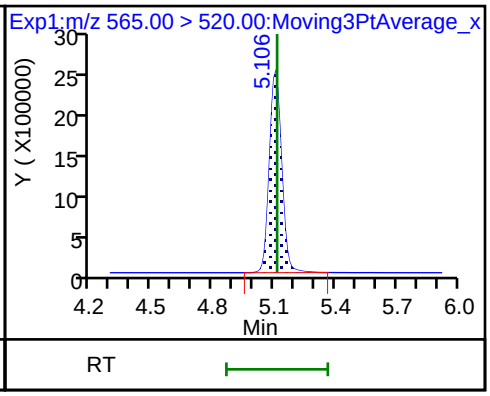
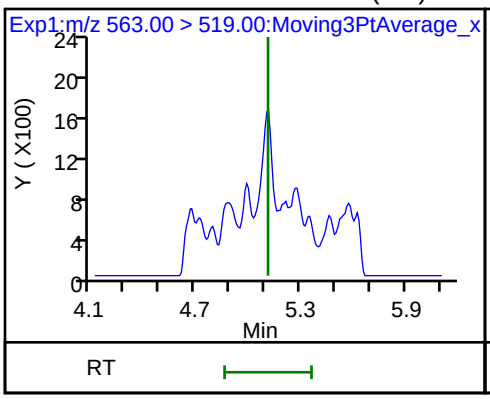


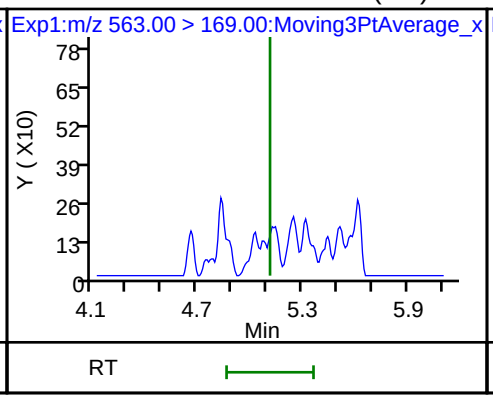
D 44 13C2 PFUnA



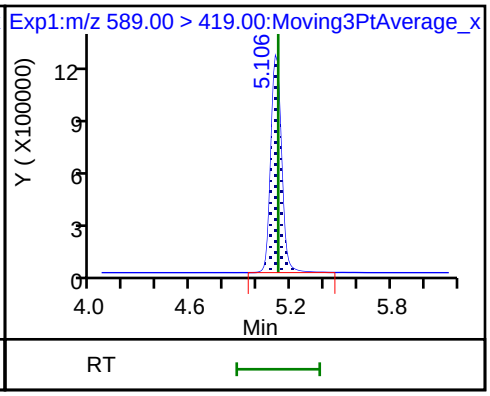
45 Perfluoroundecanoic acid (ND)



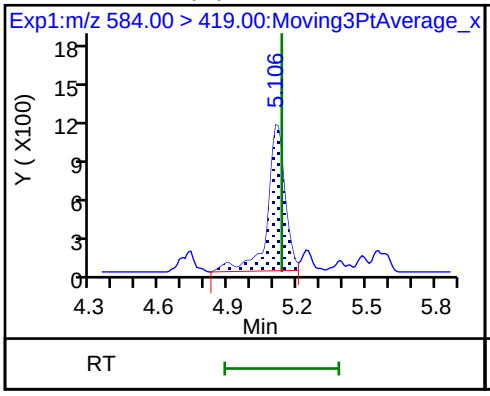
45 Perfluoroundecanoic acid (ND)



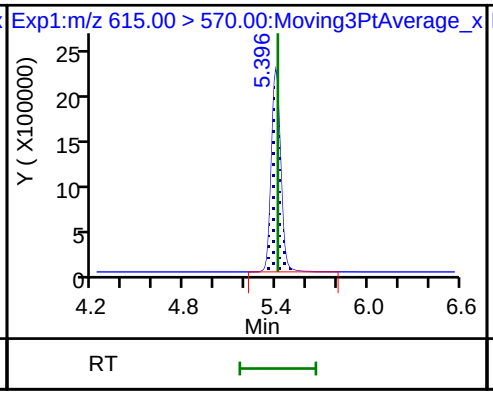
D 46 d5-NEtFOSAA



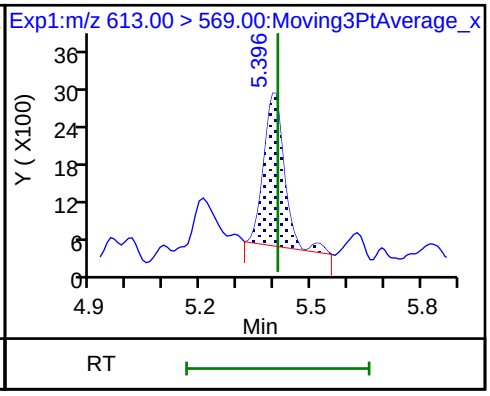
48 NEtFOSA (M)



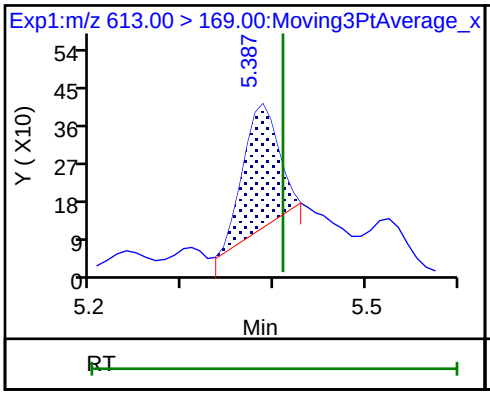
D 56 13C2 PFDoA



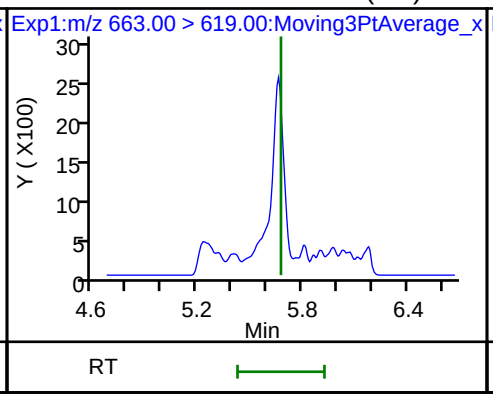
57 Perfluorododecanoic acid



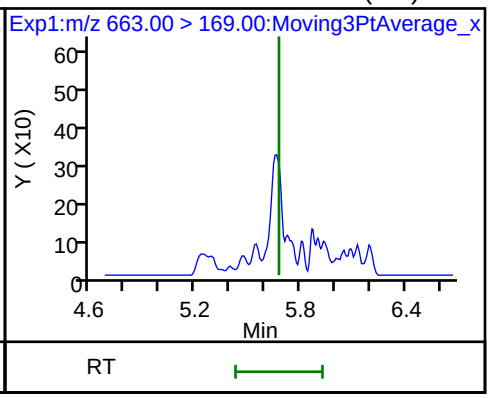
57 Perfluorododecanoic acid



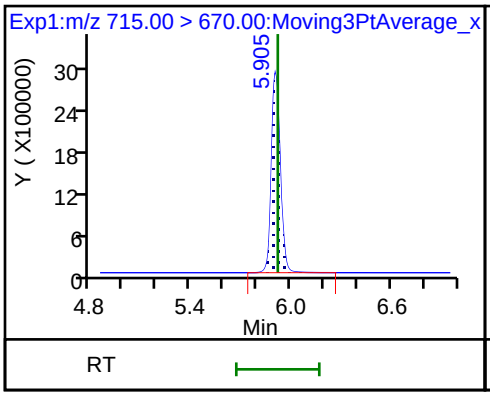
60 Perfluorotridecanoic acid (ND)



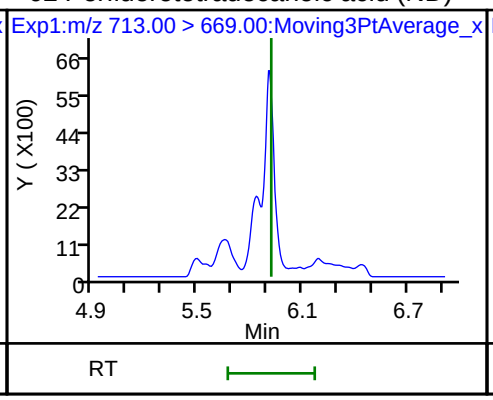
60 Perfluorotridecanoic acid (ND)



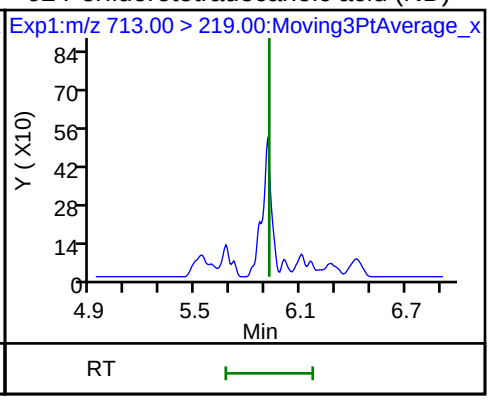
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

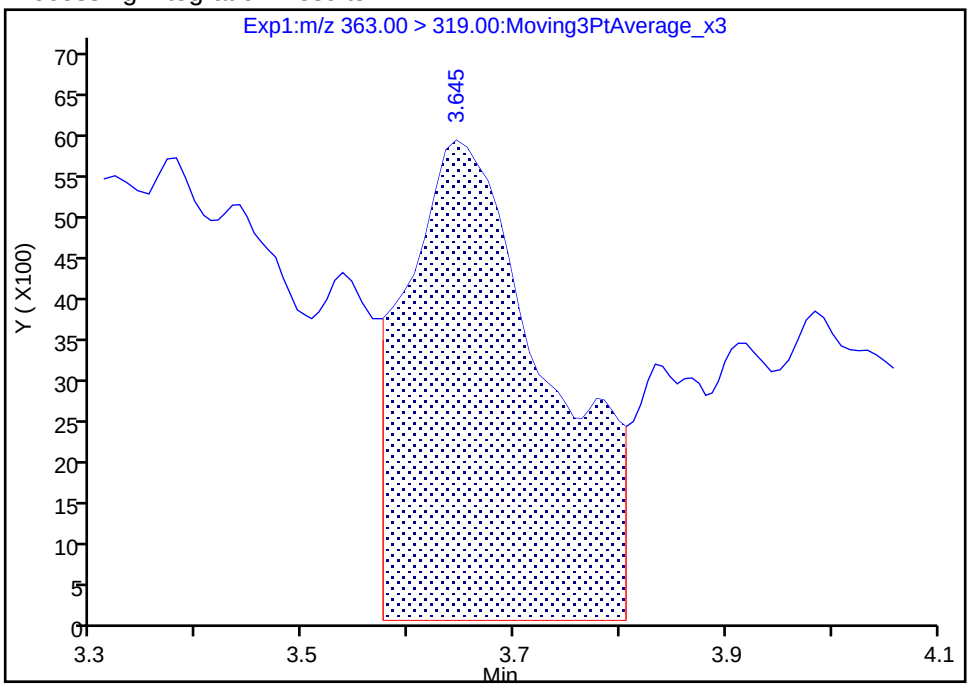
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

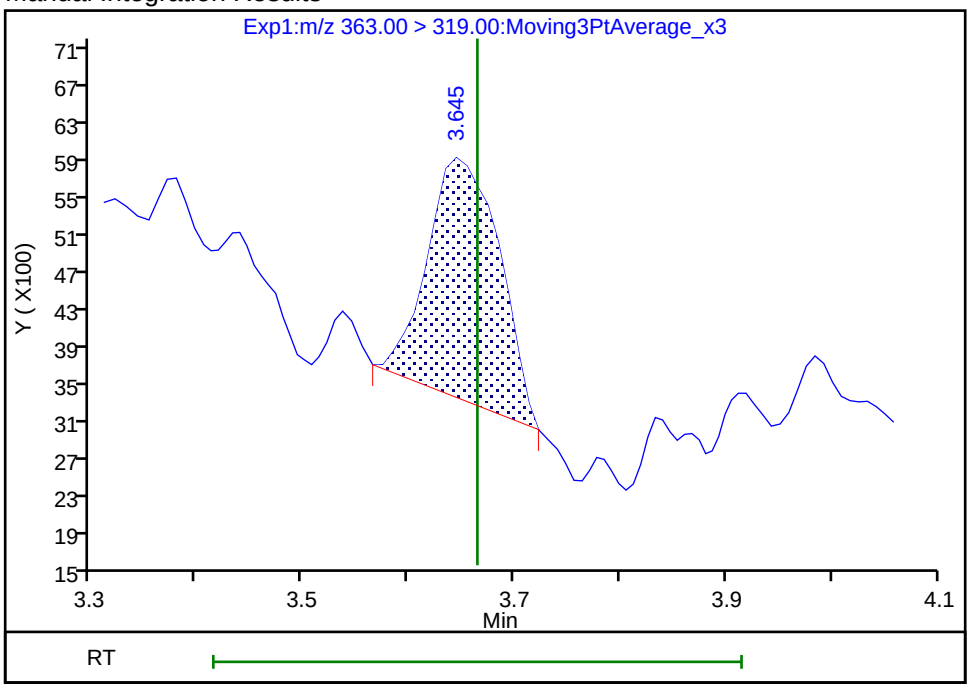
Processing Integration Results

RT: 3.64
Area: 54683
Amount: 0.016279
Amount Units: ng/ml



Manual Integration Results

RT: 3.64
Area: 12101
Amount: 0.003602
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:09

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

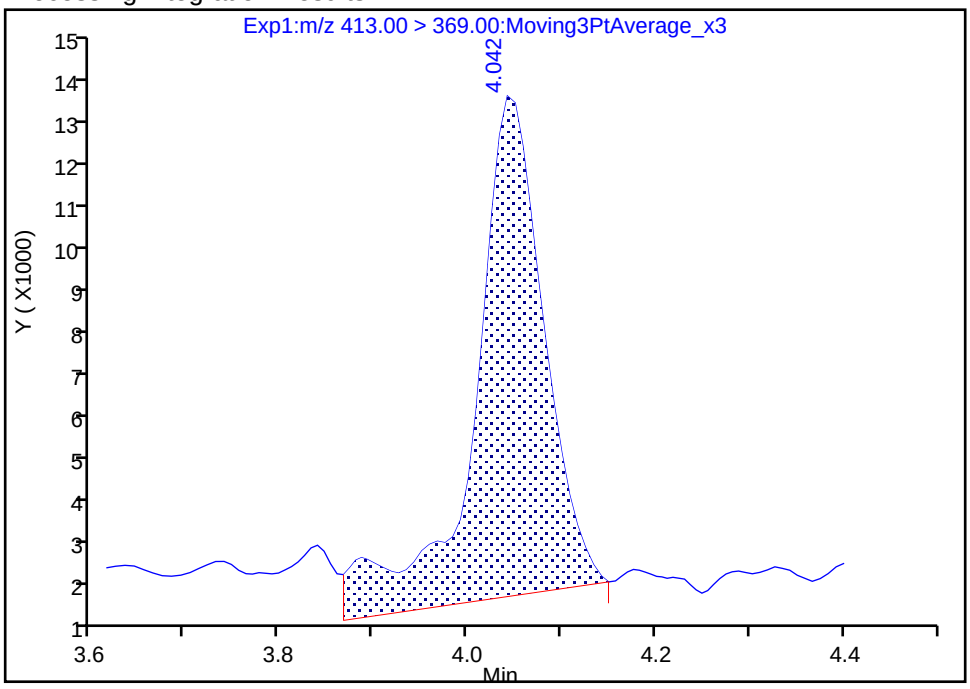
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

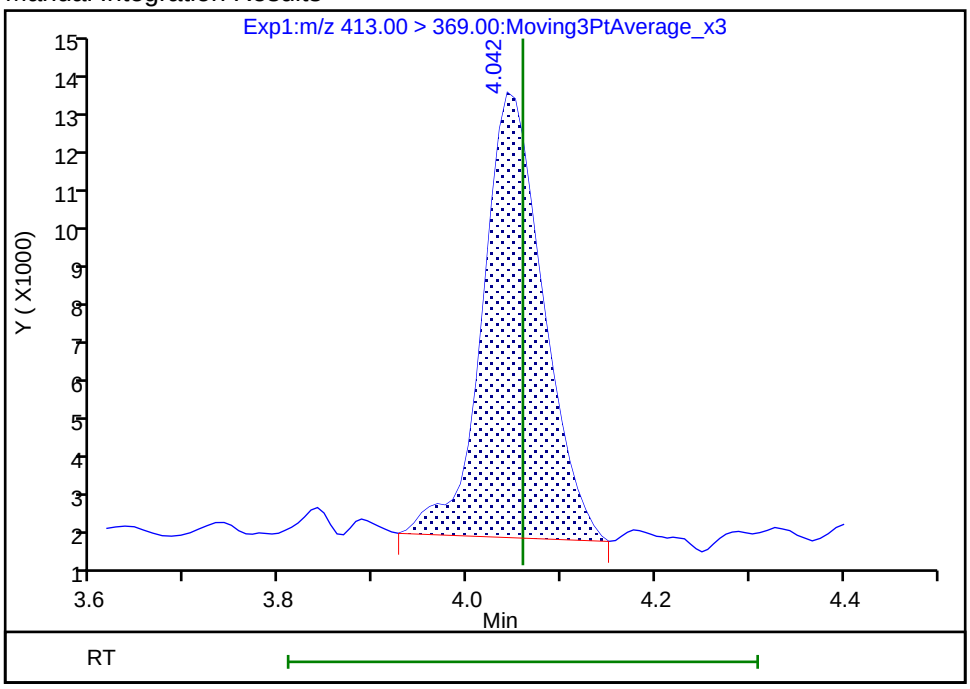
Processing Integration Results

RT: 4.04
Area: 61136
Amount: 0.015237
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 50769
Amount: 0.012653
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

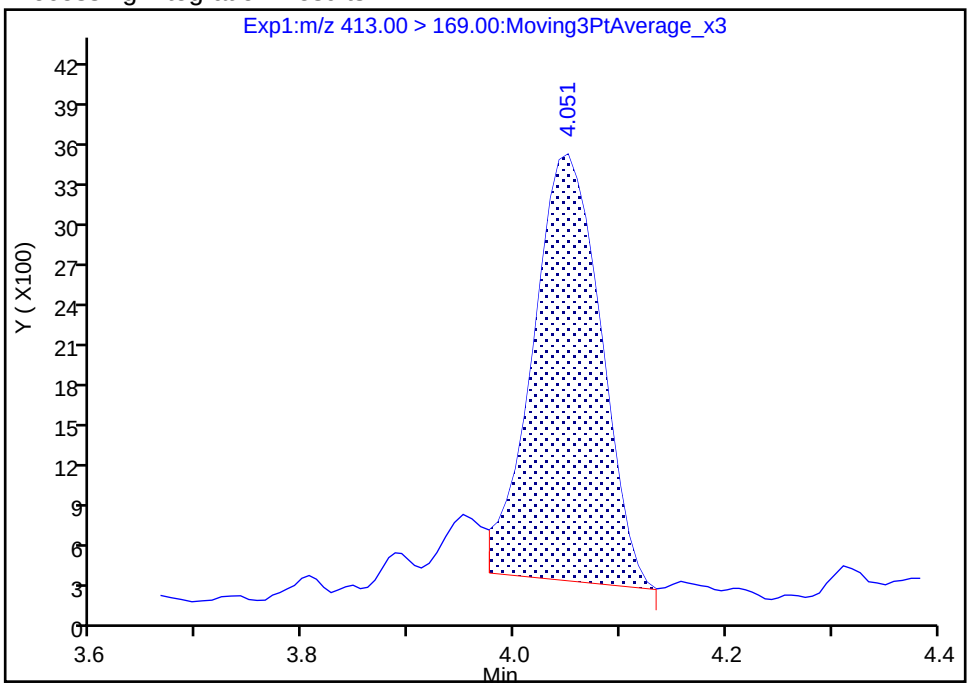
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

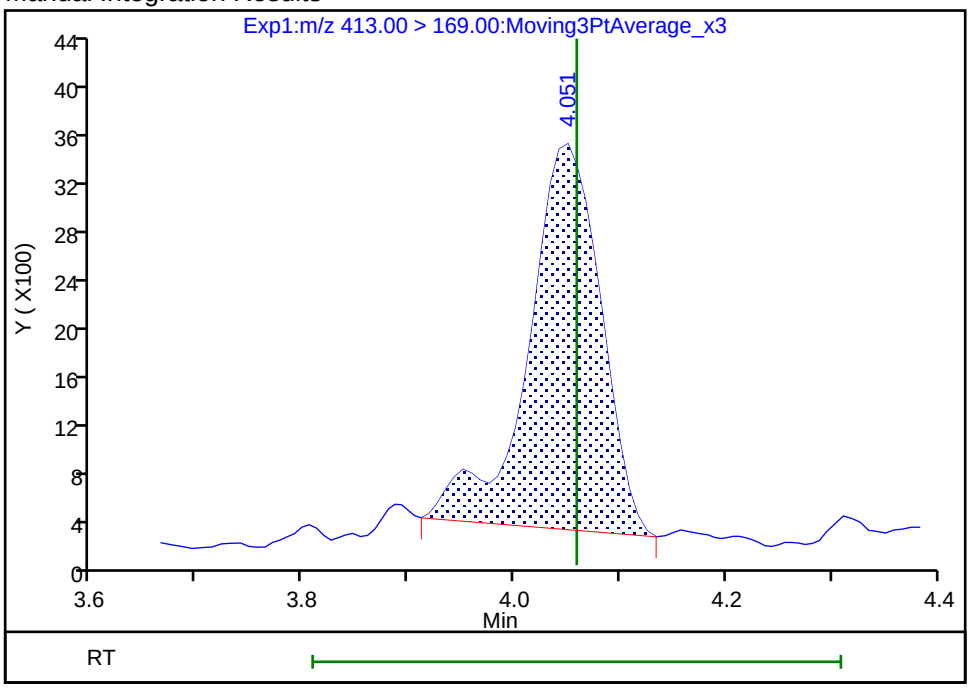
Processing Integration Results

RT: 4.05
Area: 14376
Amount: 0.015237
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 15446
Amount: 0.012653
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

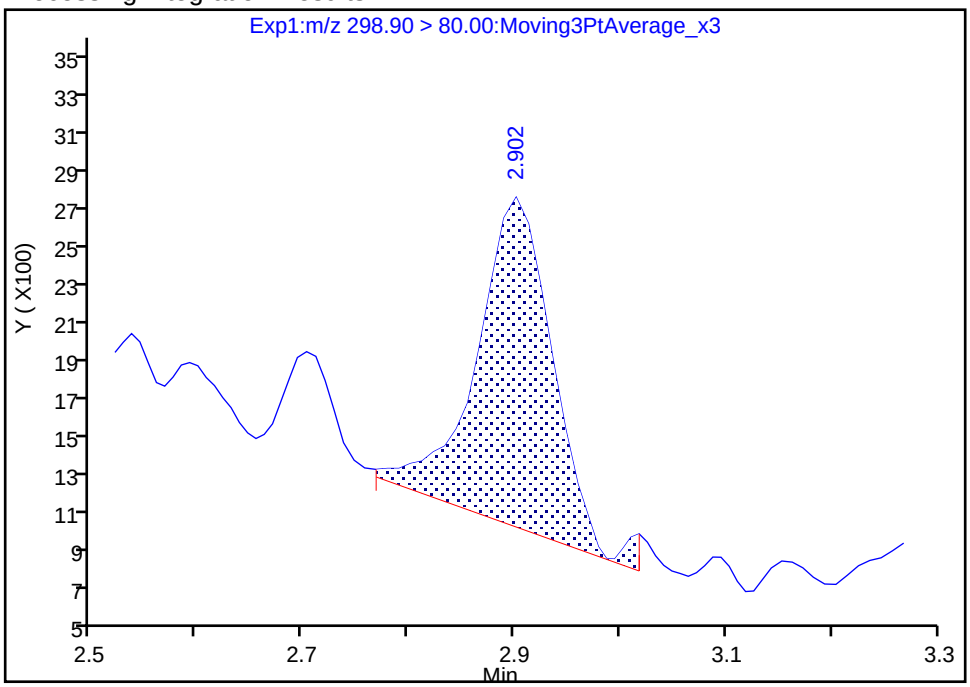
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

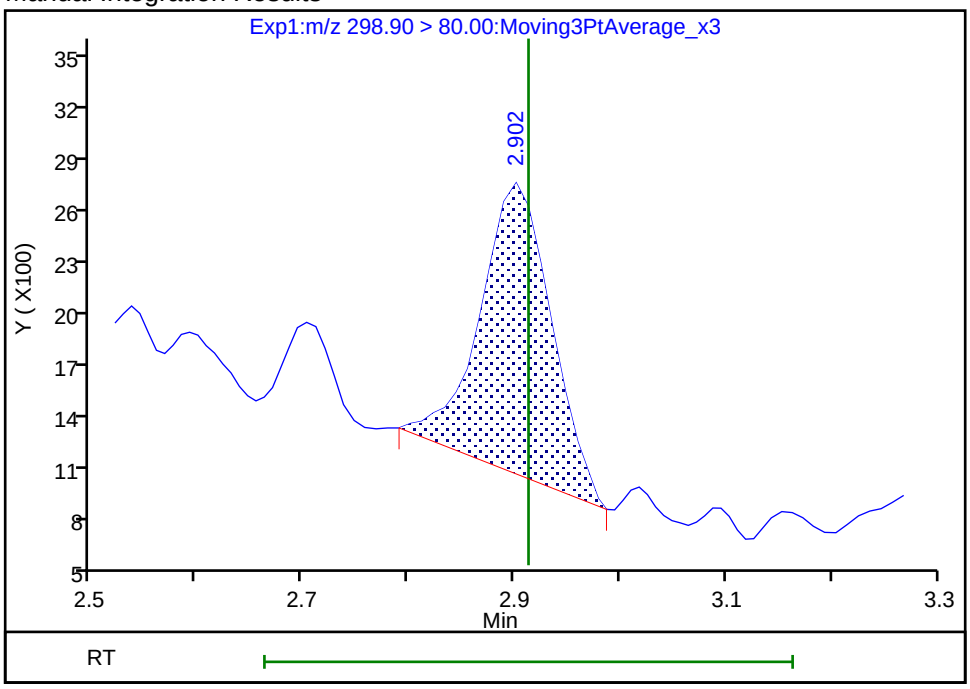
Processing Integration Results

RT: 2.90
Area: 8834
Amount: 0.002593
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 8034
Amount: 0.002358
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:02
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

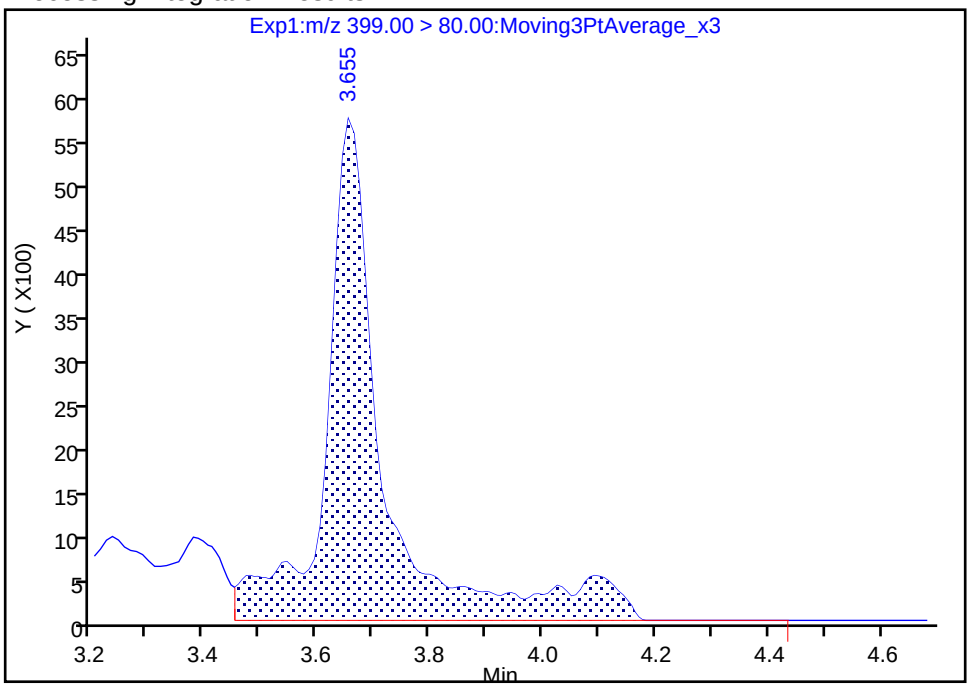
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

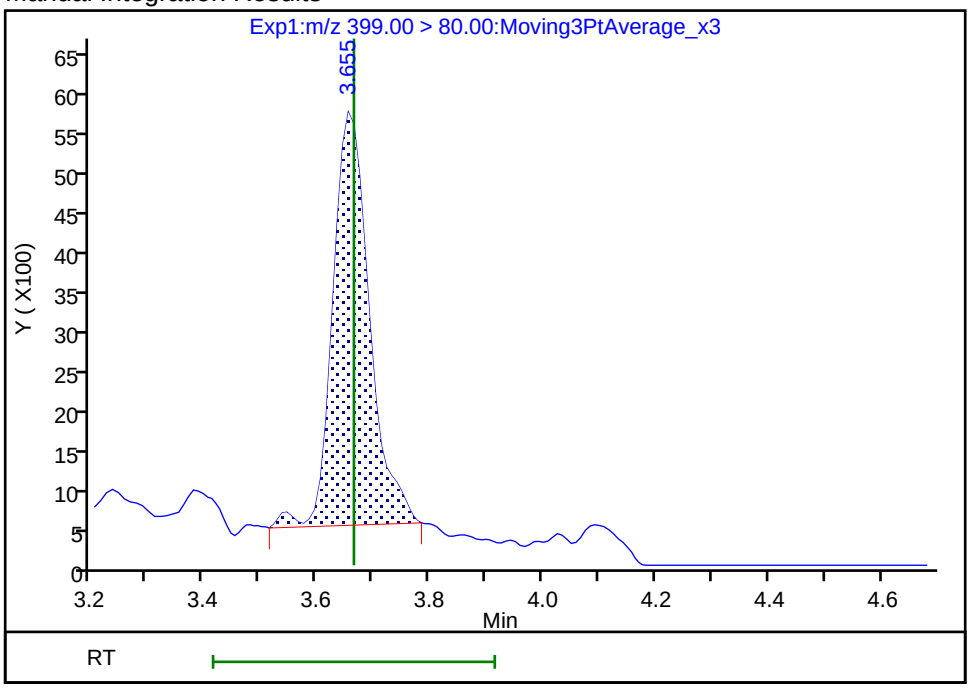
Processing Integration Results

RT: 3.65
Area: 41748
Amount: 0.015598
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 23613
Amount: 0.008822
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:15

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

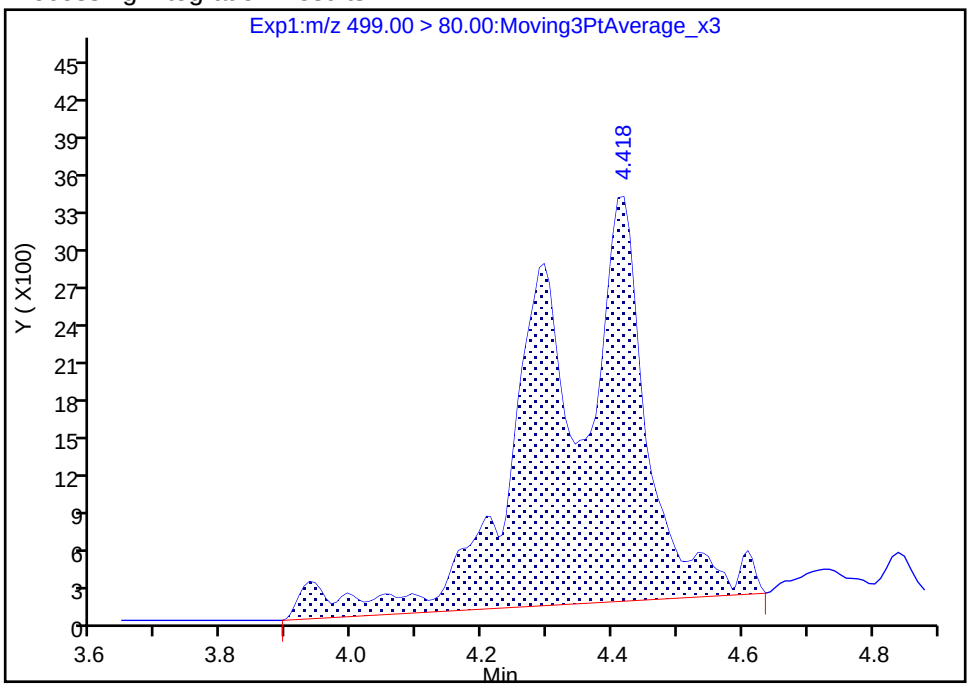
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

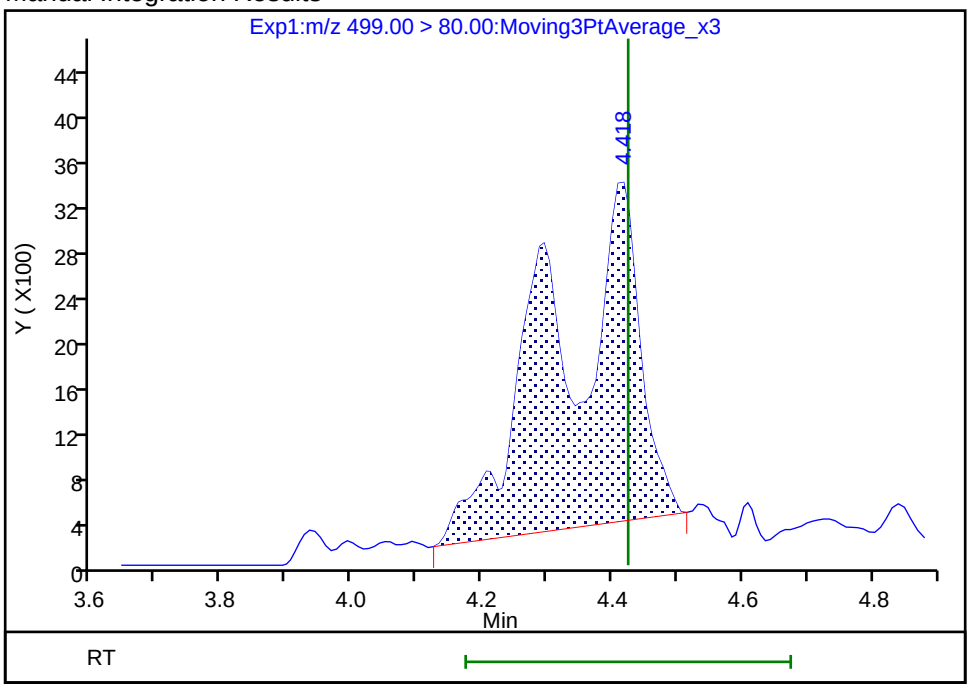
Processing Integration Results

RT: 4.42
Area: 35232
Amount: 0.019695
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 27145
Amount: 0.015174
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

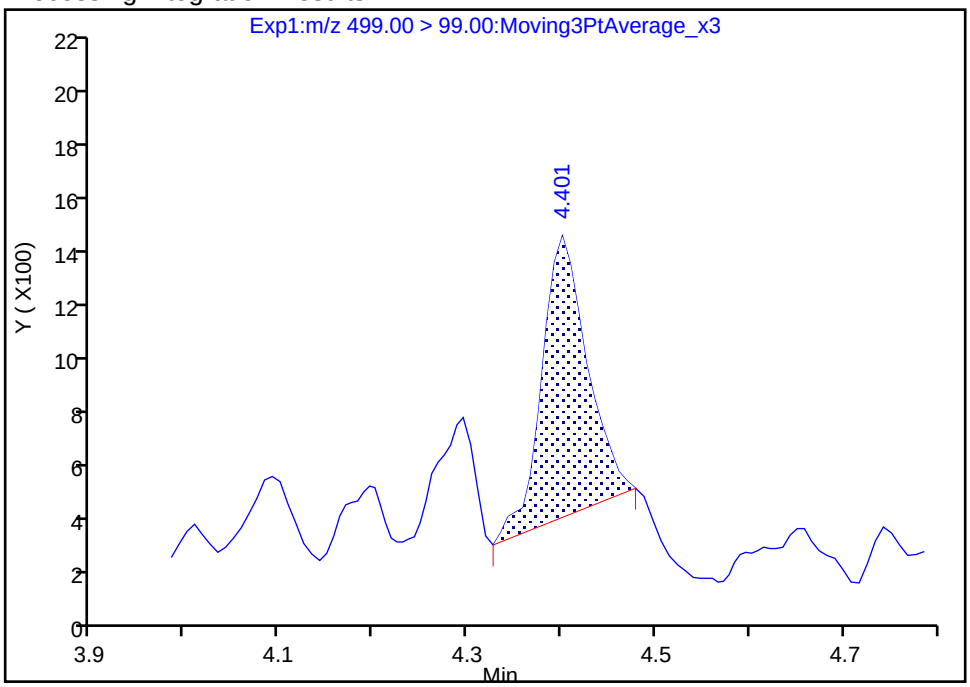
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

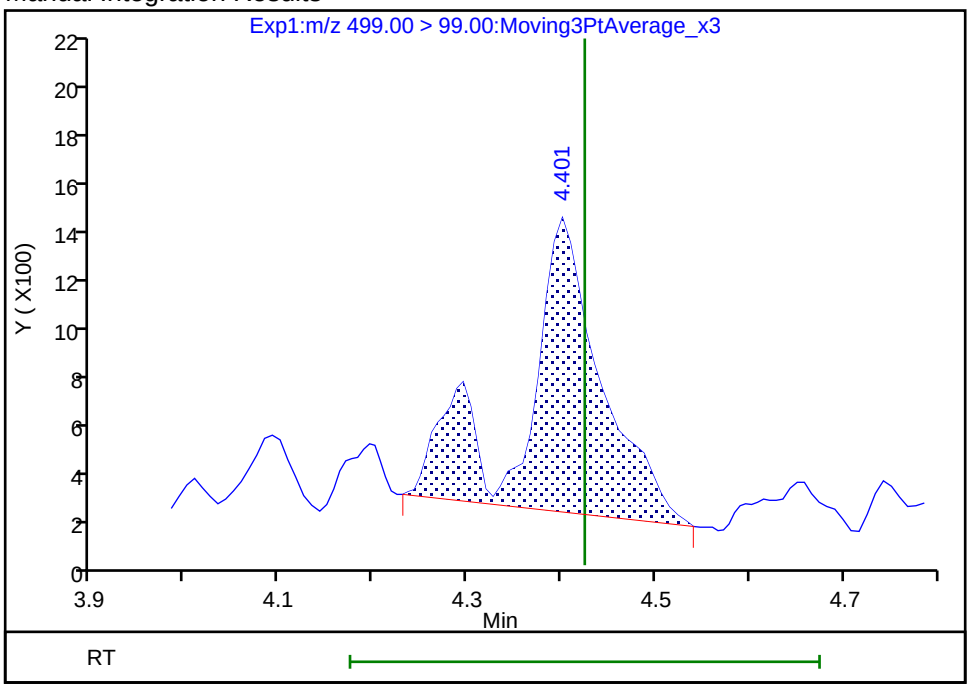
Processing Integration Results

RT: 4.40
Area: 3451
Amount: 0.019695
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 6756
Amount: 0.015174
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

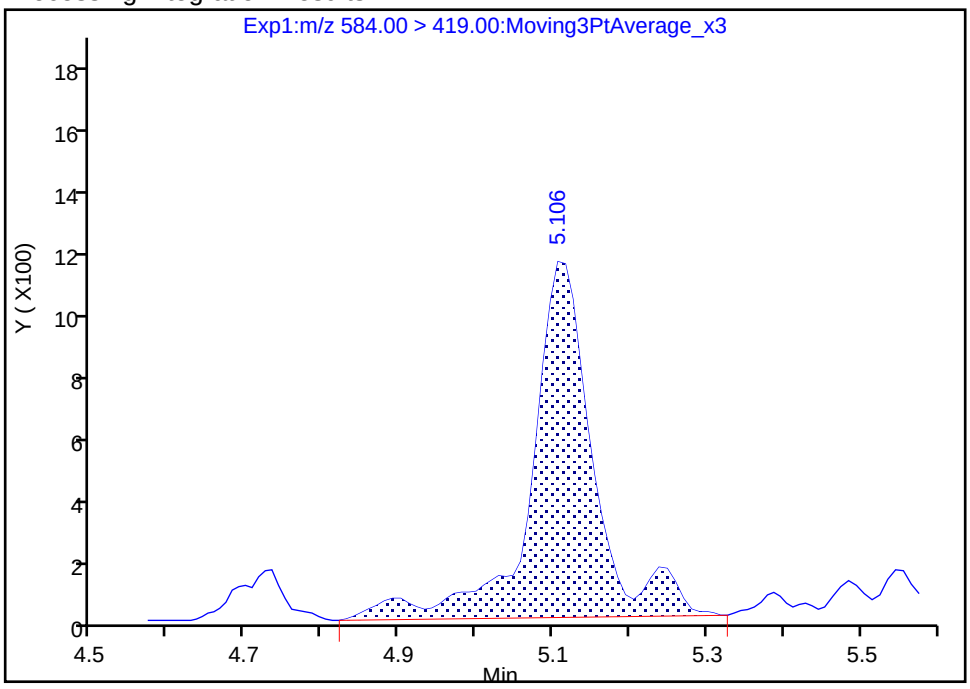
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_062.d				
Injection Date:	10-Sep-2020 18:36:07	Instrument ID:	A13		
Lims ID:	460-217659-D-1-A	Lab Sample ID:	320-217659-1		
Client ID:	MW-201				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	35	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

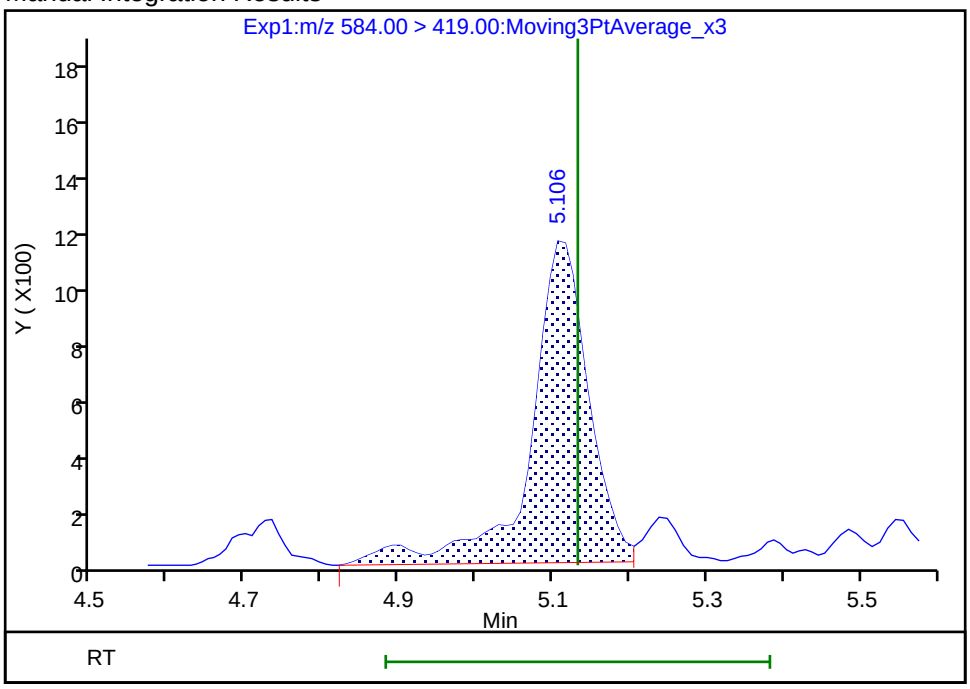
Processing Integration Results

RT: 5.11
Area: 6380
Amount: 0.003736
Amount Units: ng/ml



Manual Integration Results

RT: 5.11
Area: 5908
Amount: 0.003459
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:52:47

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-207 Lab Sample ID: 460-217659-2

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_063.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 11:10

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 266.7(mL) Date Analyzed: 09/10/2020 18:45

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.93	B	1.87	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.79	J	1.87	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	0.91	J	1.87	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.94	J	1.87	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	5.46		1.87	0.80
375-95-1	Perfluorononanoic acid (PFNA)	0.61	J	1.87	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.39	J	1.87	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.03	U	1.87	1.03
307-55-1	Perfluorododecanoic acid (PFDoA)	0.52	U	1.87	0.52
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.22	U	1.87	1.22
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.87	0.27
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.87	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.92	B	1.87	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.87	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	22.1		1.87	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.87	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.33	U	1.87	0.33
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.91	U	18.7	2.91
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.78	U	18.7	1.78
27619-97-2	6:2 FTS	1.87	U	18.7	1.87
39108-34-4	8:2 FTS	1.87	U	18.7	1.87

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-207 Lab Sample ID: 460-217659-2

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_063.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 11:10

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 266.7(mL) Date Analyzed: 09/10/2020 18:45

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	51		25-150
STL01893	13C5 PFPeA	55		25-150
STL00993	13C2 PFHxA	70		25-150
STL01892	13C4 PFHpA	70		25-150
STL00990	13C4 PFOA	69		25-150
STL00995	13C5 PFNA	67		25-150
STL00996	13C2 PFDA	64		25-150
STL00997	13C2 PFUnA	56		25-150
STL00998	13C2 PFDoA	49		25-150
STL02116	13C2 PFTeDA	48		25-150
STL02337	13C3 PFBS	75		25-150
STL00994	18O2 PFHxS	77		25-150
STL00991	13C4 PFOS	74		25-150
STL01056	13C8 FOSA	59		25-150
STL02118	d3-NMeFOSAA	52		25-150
STL02117	d5-NEtFOSAA	56		25-150
STL02279	M2-6:2 FTS	109		25-150
STL02280	M2-8:2 FTS	83		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d
Lims ID: 460-217659-D-2-A
Client ID: MW-207
Sample Type: Client
Inject. Date: 10-Sep-2020 18:45:30 ALS Bottle#: 36 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-2-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 09:46:55 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 09:46:55
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.609	4537206	1.27		50.7	5252	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.475	2.482	-0.007	1.003	69321	0.0514			2.2	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.867	-0.001	0.708	3838047	1.38		55.0	1436	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.866	2.867	-0.001	1.000	33446	0.0212			0.3	M
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.716	6090172	1.74		74.8	420	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.901	2.913	-0.012	1.000	51812	0.0202	Target=2.29		1.3	M
298.90 > 99.00	2.901	2.913	-0.012	1.000	26519		1.95(1.15-3.44)		1.9	
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.258	3.258	0.0	1.000	54848	0.0243	Target=13.52		0.7	M
313.00 > 119.00	3.247	3.258	-0.011	0.997	3750		14.63(6.76-20.28)		0.9	M
D 9 13C2 PFHxA										
315.00 > 270.00	3.258	3.258	0.0	0.804	6061161	1.76		70.4	1979	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	4170154	1.82		76.8	656	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.655	3.665	-0.010	1.000	60167	0.0252	Target=3.87		1.3	M
363.00 > 169.00	3.655	3.665	-0.010	1.000	15998		3.76(1.93-5.80)		7.0	M
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	100502	0.0512	Target=3.08		3.6	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	30182		3.33(1.54-4.62)		8.1	
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	5916222	1.74		69.7	2093	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.034	4.042	-0.008	0.996	2560337	2.59		109	478	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	0.998	58265	0.0225			31.1	
22 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	4.050	4.051	-0.001	0.919	13512	0.009823	Target=4.20		3.6	M
449.00 > 99.00	4.034	4.051	-0.017	0.915	2455		5.50(2.10-6.30)		1.3	
D 24 13C4 PFOA										
417.00 > 372.00	4.050	4.059	-0.009	1.000	7178039	1.73		69.2	6038	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.050	4.059	-0.009	1.000	428081	0.1457	Target=2.99		15.2	M
413.00 > 169.00	4.050	4.059	-0.009	1.000	164155		2.61(1.50-4.49)		86.9	M
* 25 13C2 PFOA										
415.00 > 370.00	4.050	4.059	-0.009		10527068	2.50			4901	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.417	4.425	-0.008	1.002	740580	0.5905	Target=4.13		101	M
499.00 > 99.00	4.408	4.425	-0.017	1.000	148539		4.99(2.06-6.19)		56.7	M
D 29 13C4 PFOS										
503.00 > 80.00	4.408	4.425	-0.017	1.088	2886637	1.76		73.8	792	
30 Perfluorononanoic acid										M
463.00 > 419.00	4.425	4.433	-0.008	0.998	39488	0.0163	Target=7.70		4.2	M
463.00 > 169.00	4.434	4.433	0.001	1.000	5319		7.42(3.85-11.55)		10.4	
D 31 13C5 PFNA										
468.00 > 423.00	4.434	4.442	-0.008	1.095	6393501	1.67		66.7	7024	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.169	3482427	1.48		59.2	7767	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	9450	0.007230			3.8	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	7406796	1.60		63.8	7466	
36 Perfluorodecanoic acid										M
513.00 > 469.00	4.786	4.793	-0.007	1.000	27705	0.0104	Target=10.40		4.5	M
513.00 > 169.00	4.786	4.793	-0.007	1.000	2222		12.47(5.20-15.61)		6.9	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	2616035	2.00		83.5	1376	
39 8:2 FTS										
527.00 > 507.00	4.786	4.802	-0.016	1.000	4472	0.001656			20.3	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.952	4.959	-0.007	1.223	3122177	1.30		52.2	3203	
41 NMeFOSAA										
570.00 > 419.00	4.952	4.959	-0.007	1.000	3545	0.003524			2.8	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.261	6377462	1.40		56.2	4215	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.116	5.123	-0.007	1.263	3217149	1.39		55.6	1969	
48 NEtFOSA										M
584.00 > 419.00	5.135	5.132	0.003	1.004	5983	0.006006			16.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.332	6033854	1.23		49.4	6574	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.910	5.920	-0.010	1.459	5789866	1.20		48.0	8992	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 09:46:55 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d

Injection Date: 10-Sep-2020 18:45:30 Instrument ID: A13

Lims ID: 460-217659-D-2-A Lab Sample ID: 320-217659-2

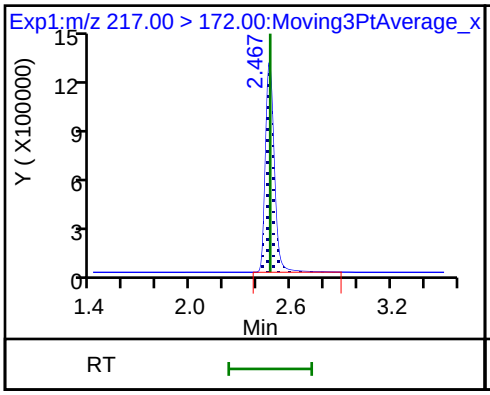
Client ID: MW-207

Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 6

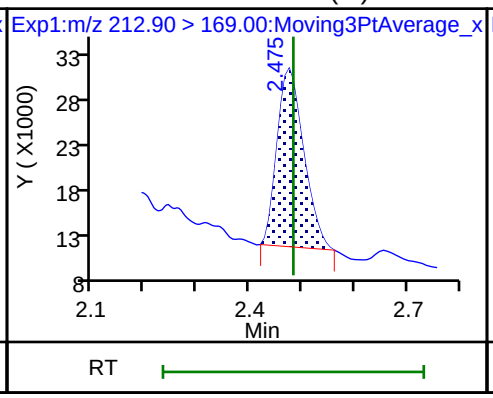
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

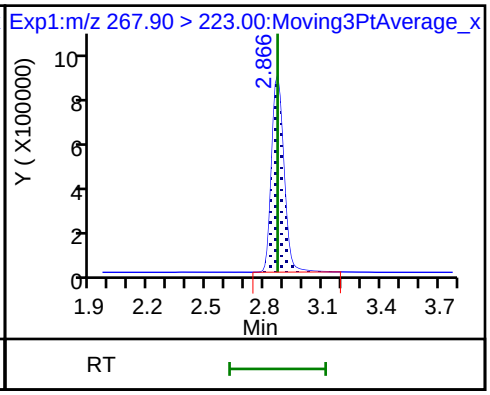
D 1 13C4 PFBA



2 Perfluorobutanoic acid (M)



D 4 13C5 PFPeA



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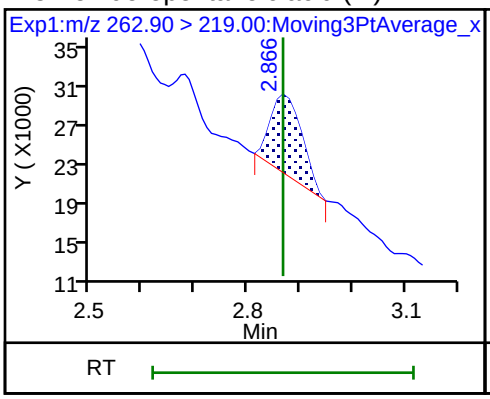
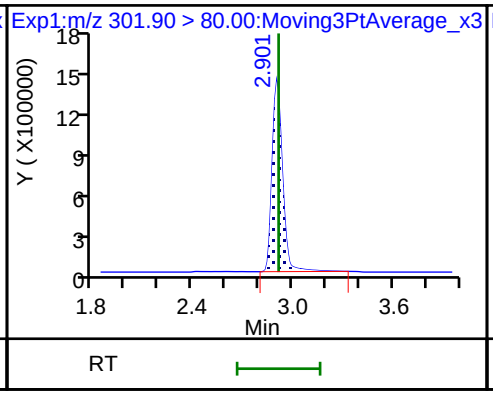
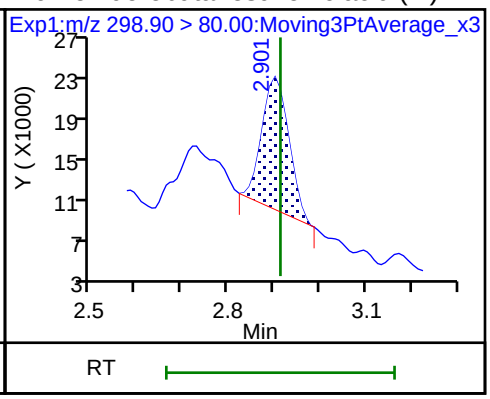


D 14 13C3 PFBS



6 Perfluorobutanesulfonic acid (M)



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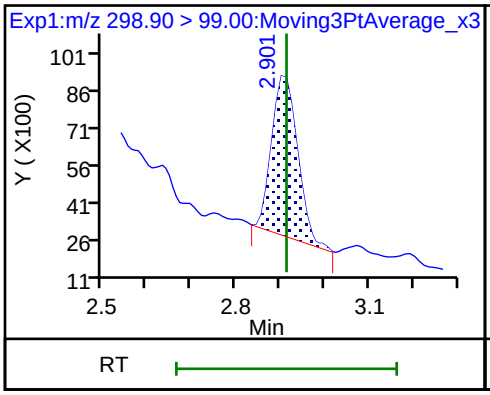

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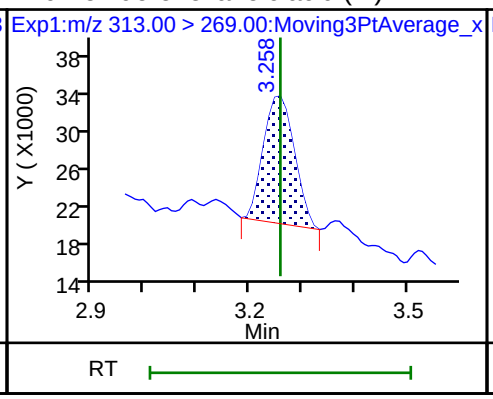
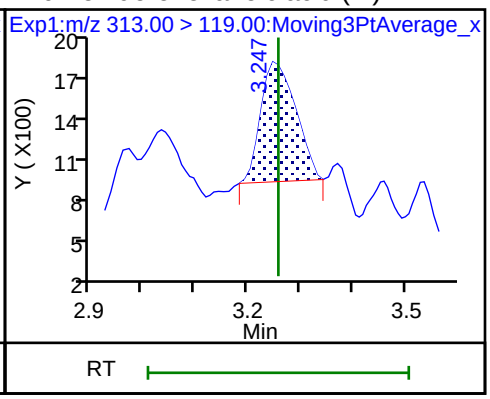
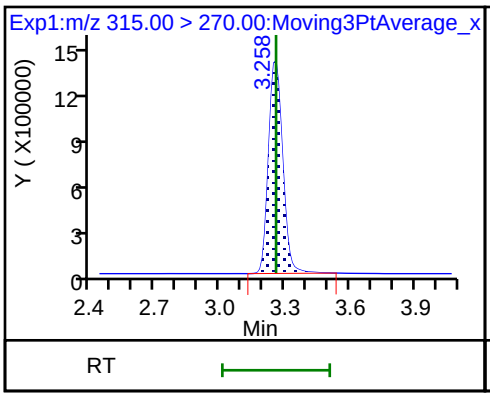


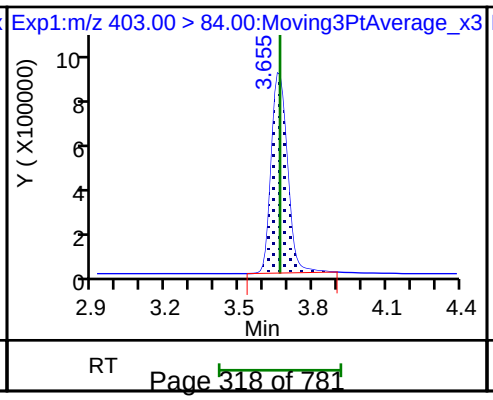
10 Perfluorohexanoic acid (M)



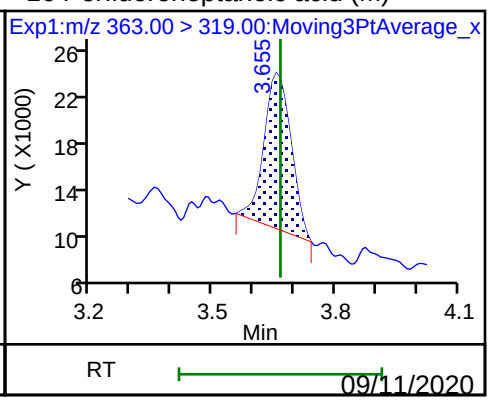
D 9 13C2 PFHxA



D 17 18O2 PFHxS



16 Perfluoroheptanoic acid (M)



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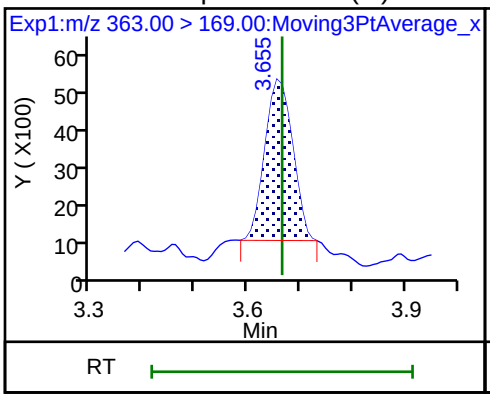
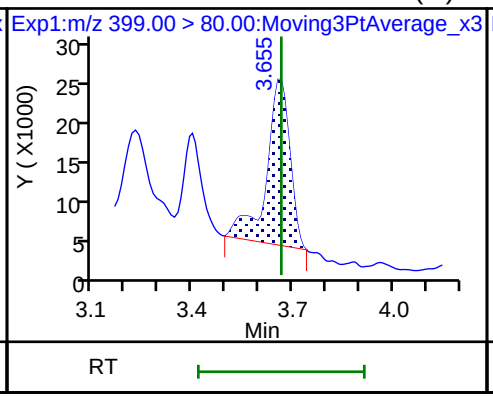
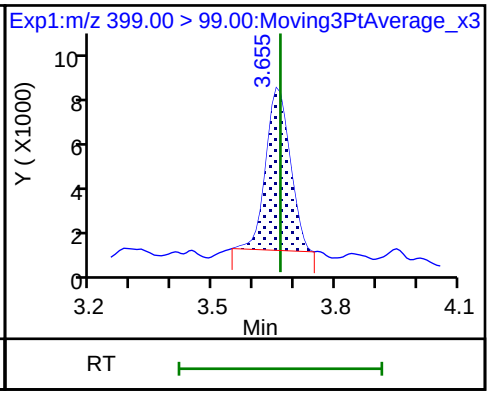


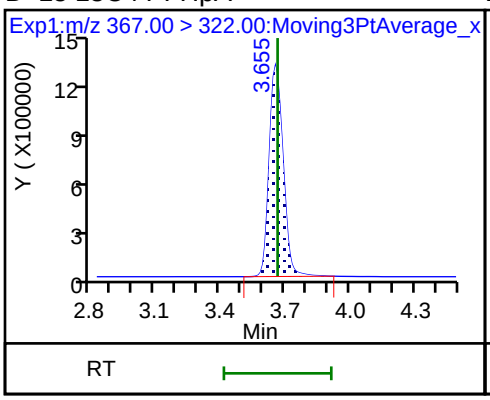
18 Perfluorohexanesulfonic acid (M)



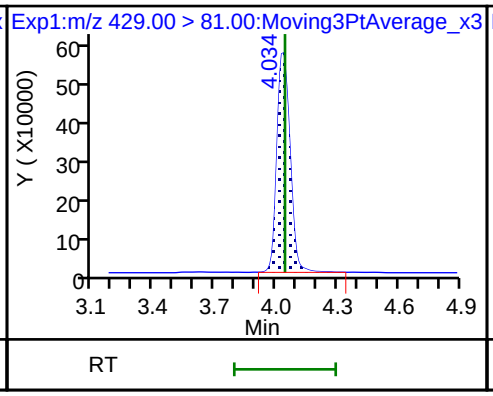
18 Perfluorohexanesulfonic acid



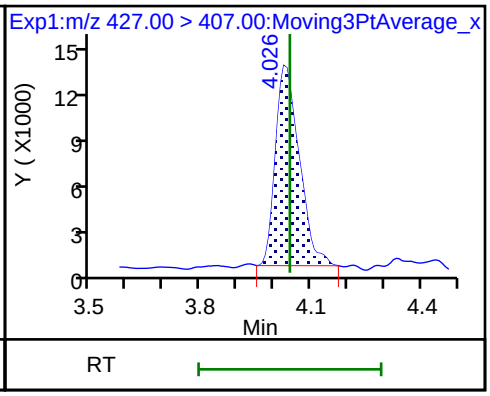
D 15 13C4 PFHpA



D 20 M2-6:2 FTS



21 6:2 FTS



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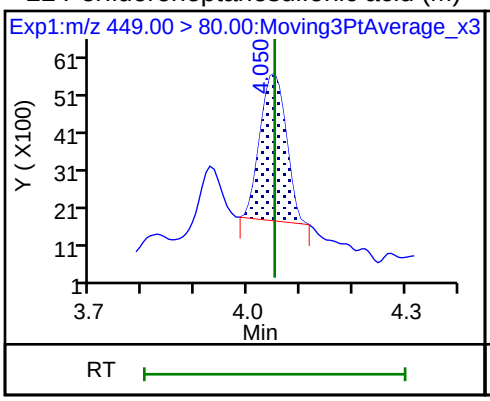
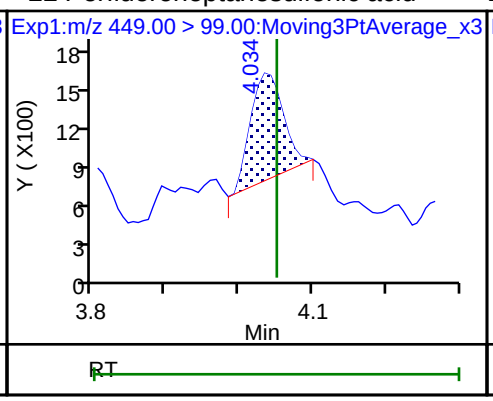
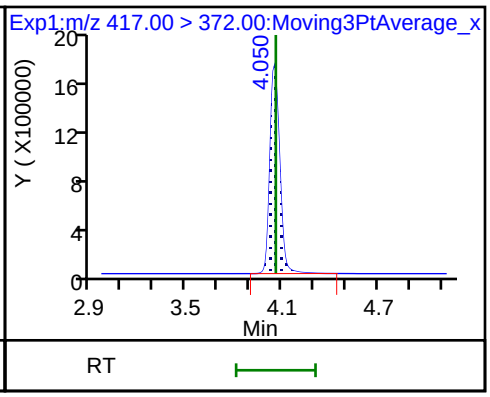


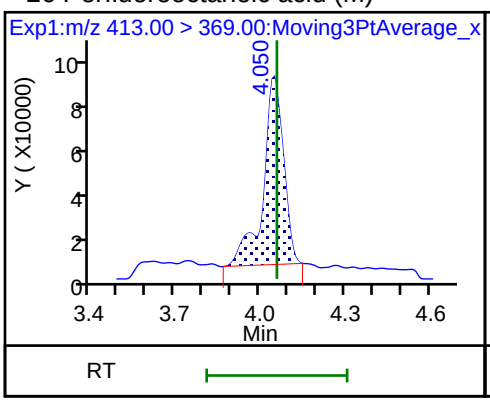
22 Perfluoroheptanesulfonic acid



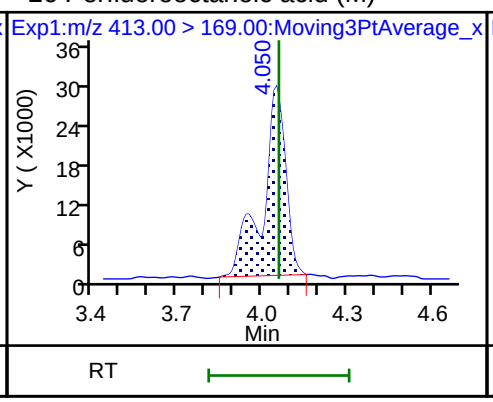
D 24 13C4 PFOA



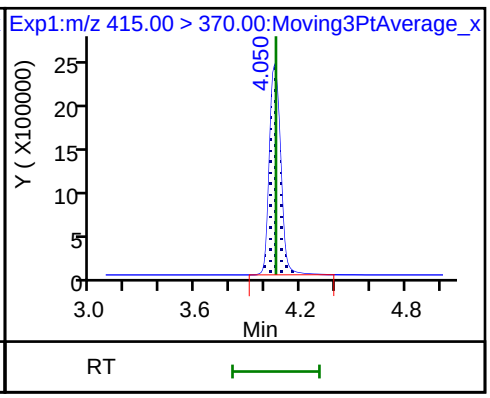
26 Perfluorooctanoic acid (M)



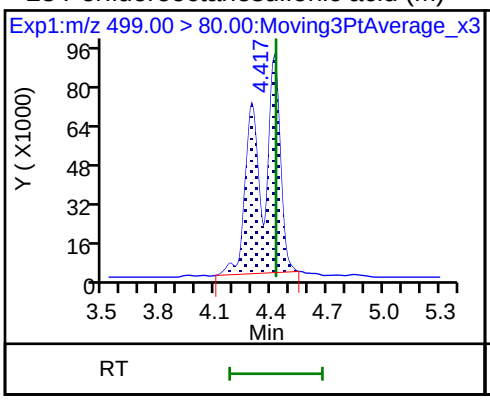
26 Perfluorooctanoic acid (M)



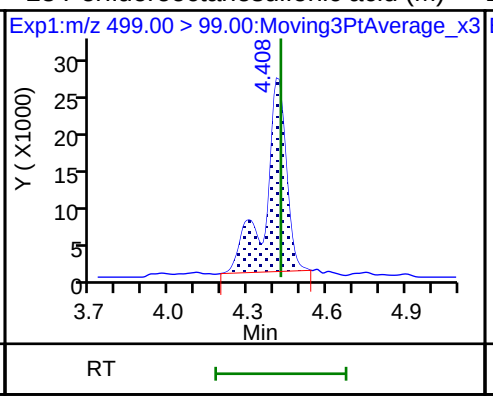
* 25 13C2 PFOA



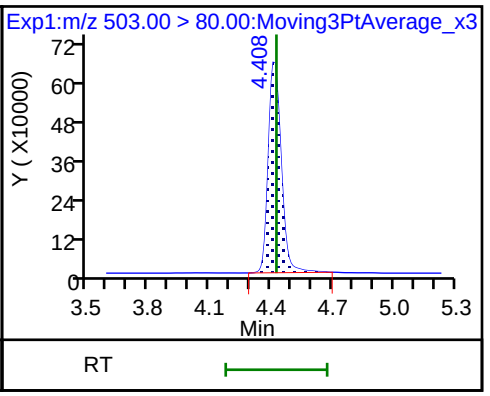
28 Perfluorooctanesulfonic acid (M)



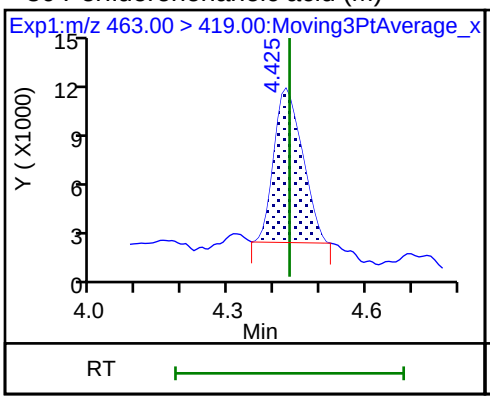
28 Perfluorooctanesulfonic acid (M)



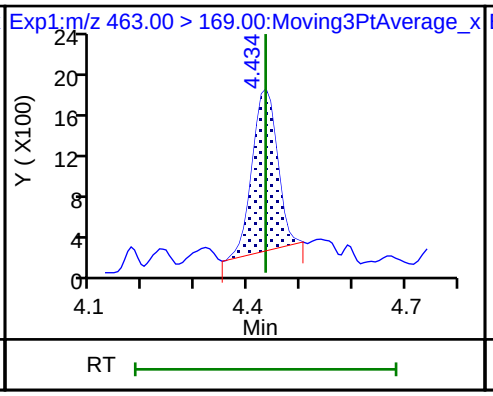
D 29 13C4 PFOS



30 Perfluorononanoic acid (M)



30 Perfluorononanoic acid



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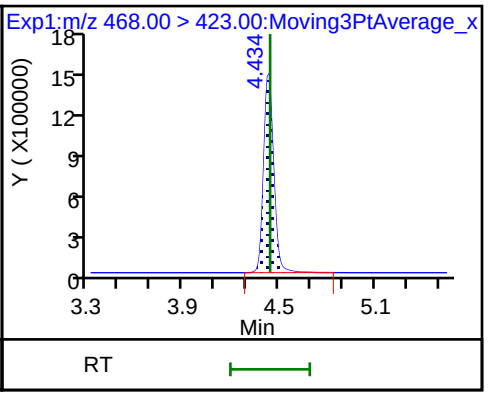
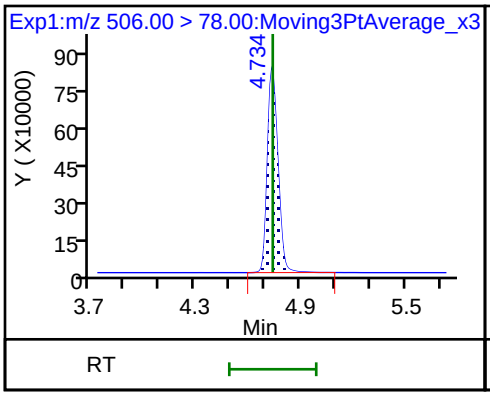
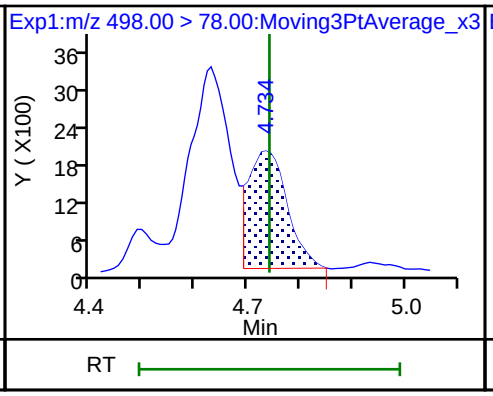


D 34 13C8 FOSA



33 Perfluorooctanesulfonamide



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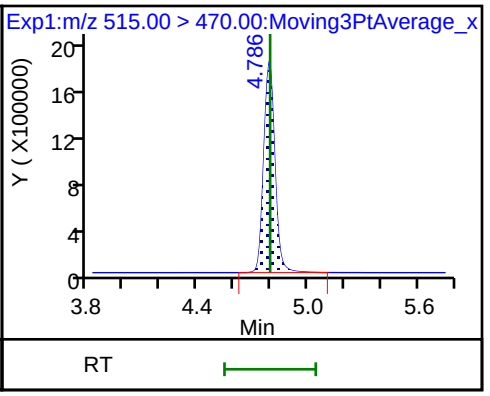
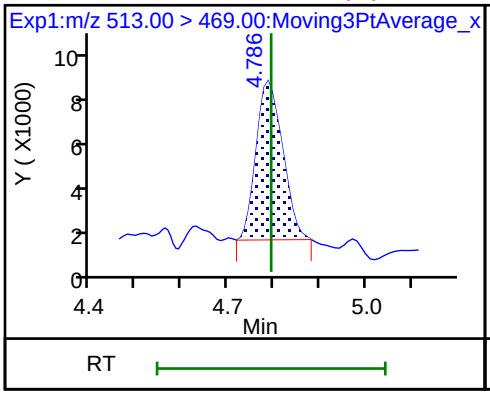
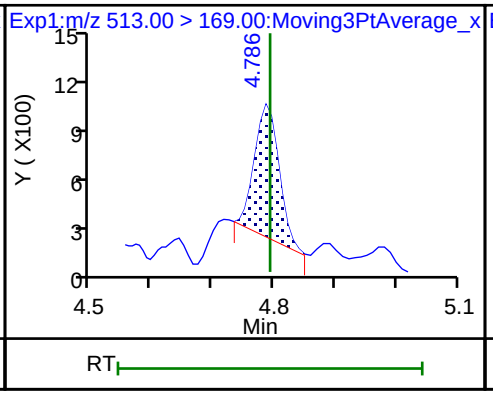


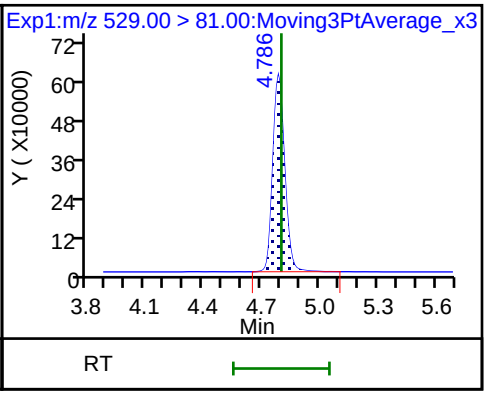
36 Perfluorodecanoic acid (M)



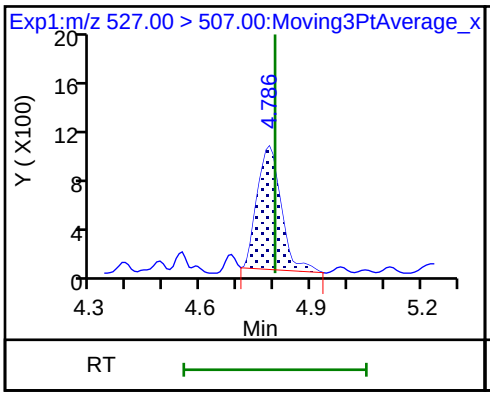
36 Perfluorodecanoic acid



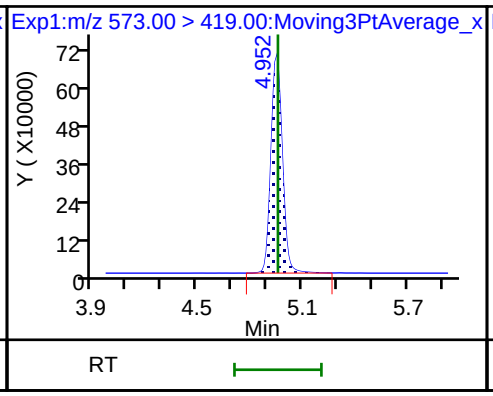
D 38 M2-8:2 FTS



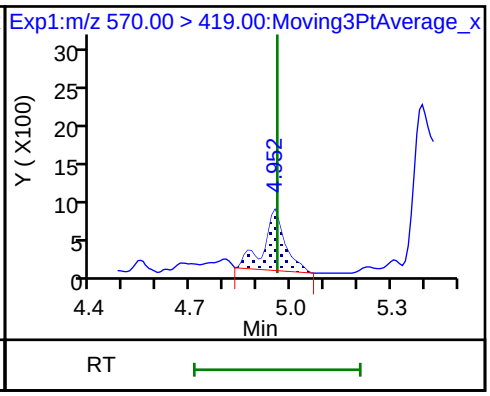
39 8:2 FTS



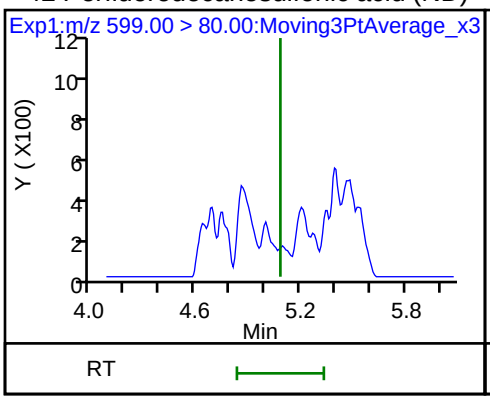
D 40 d3-NMeFOSAA



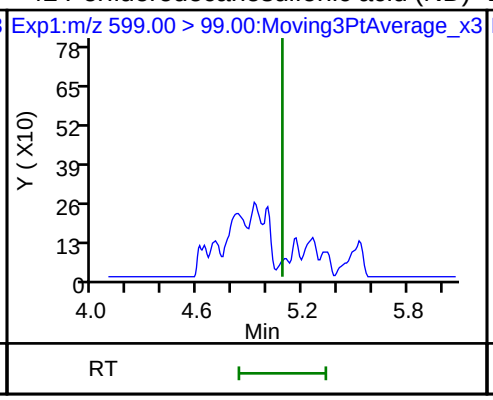
41 NMeFOSAA



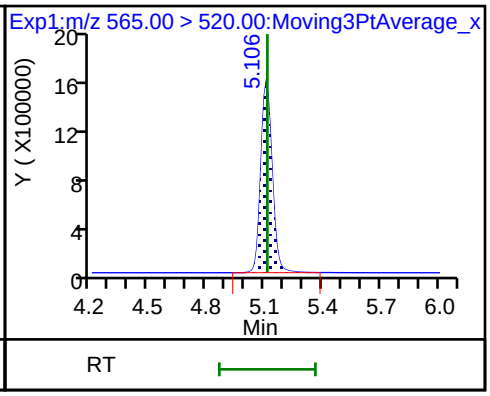
42 Perfluorodecanesulfonic acid (ND)



42 Perfluorodecanesulfonic acid (ND)



D 44 13C2 PFUnA



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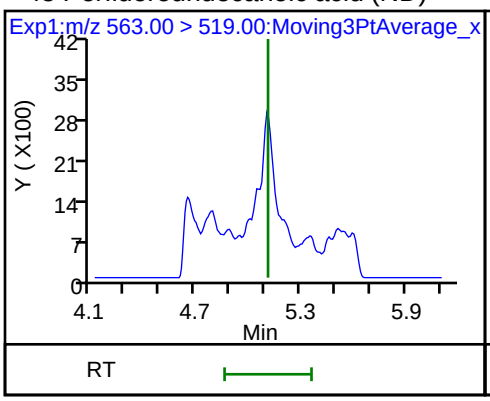
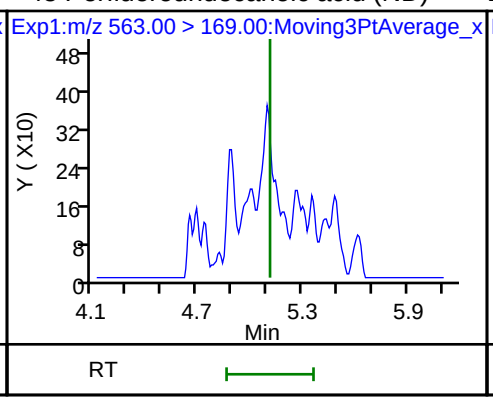
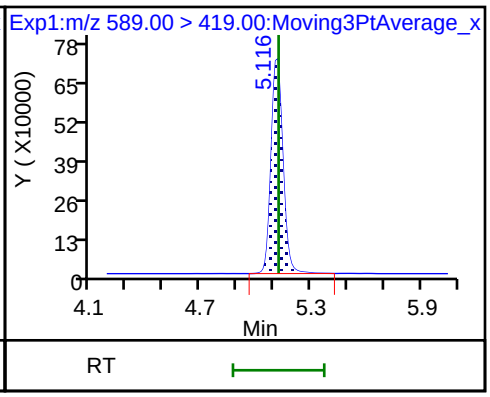


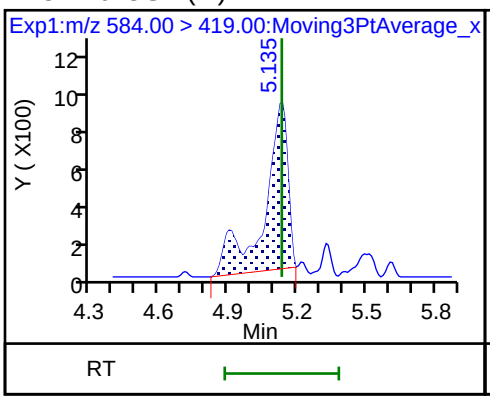
45 Perfluoroundecanoic acid (ND)



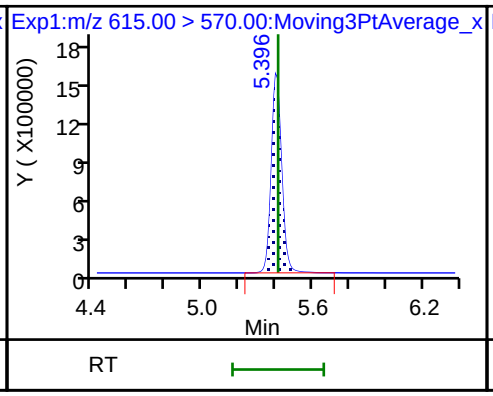
D 46 d5-NEtFOSAA



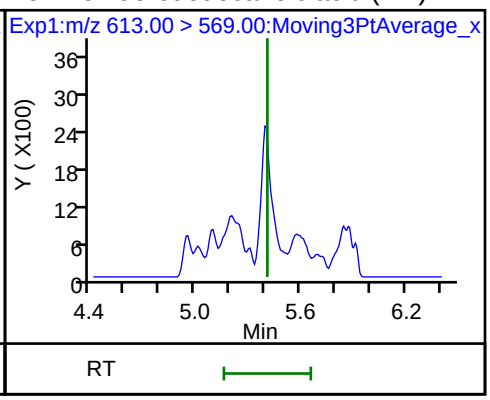
48 NEtFOSA (M)



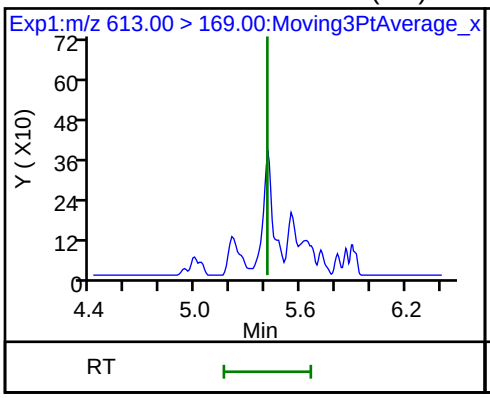
D 56 13C2 PFDoA



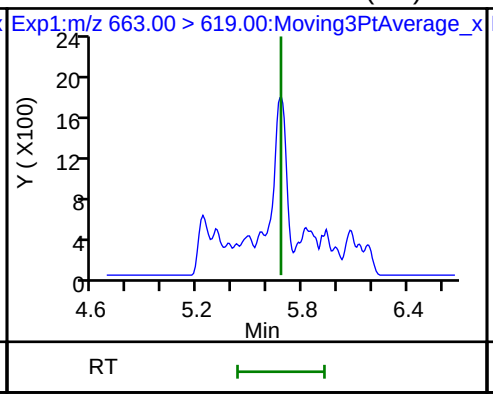
57 Perfluorododecanoic acid (ND)



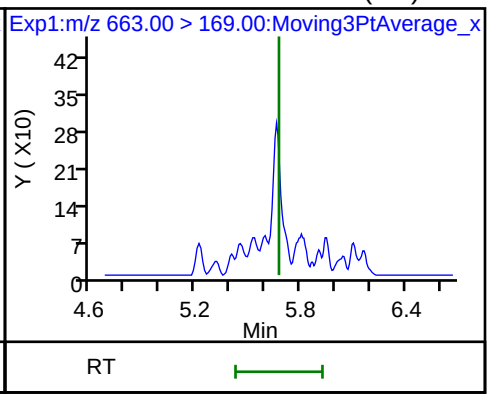
57 Perfluorododecanoic acid (ND)



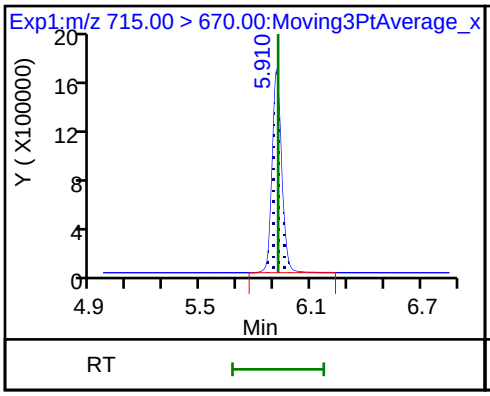
60 Perfluorotridecanoic acid (ND)



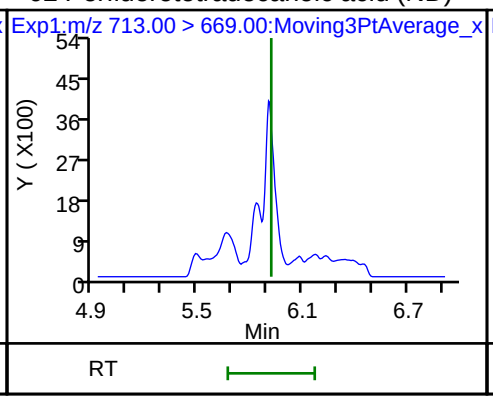
60 Perfluorotridecanoic acid (ND)



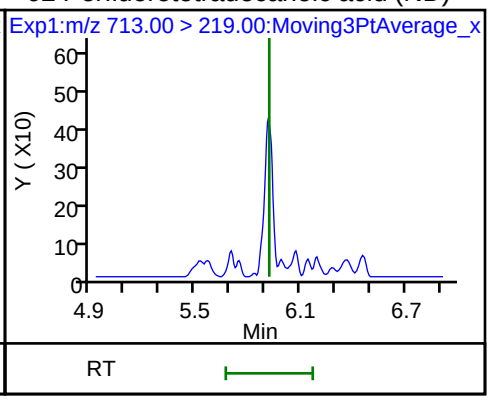
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Sacramento

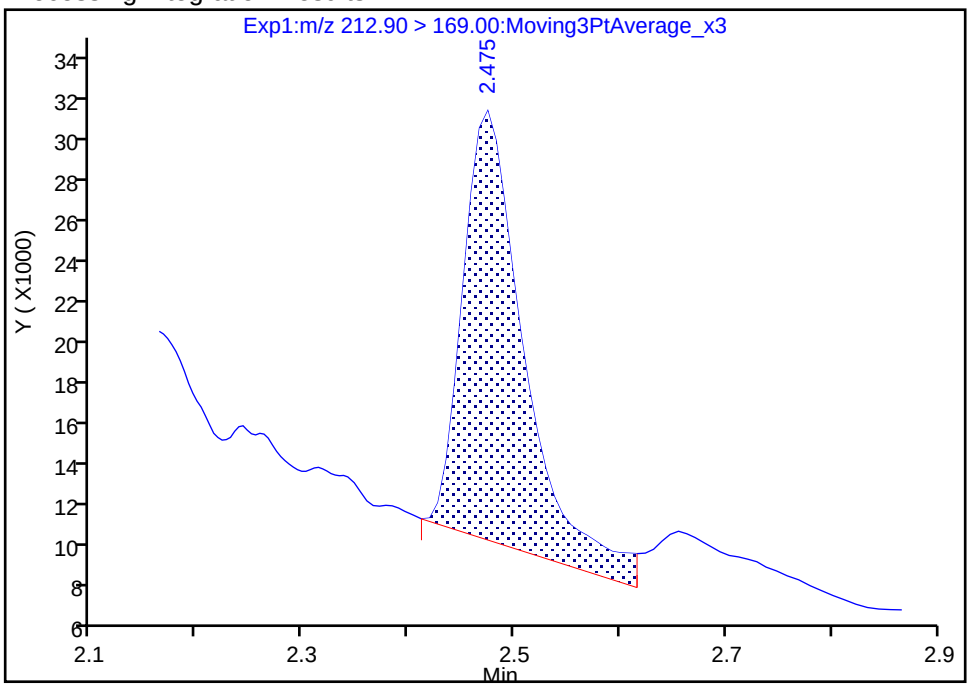
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

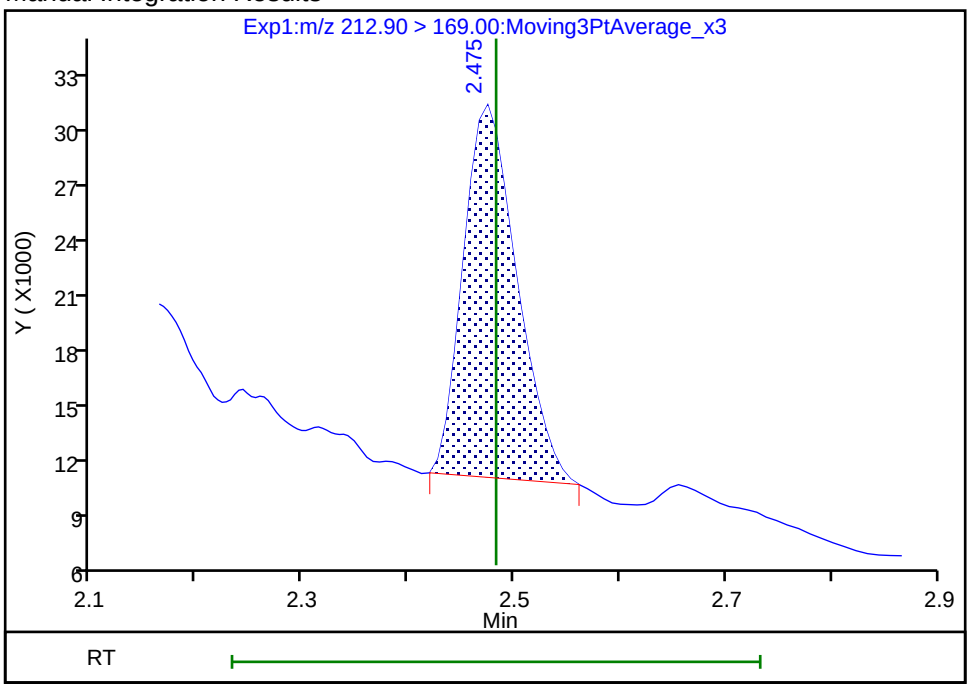
Processing Integration Results

RT: 2.47
Area: 82792
Amount: 0.061377
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 69321
Amount: 0.051390
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

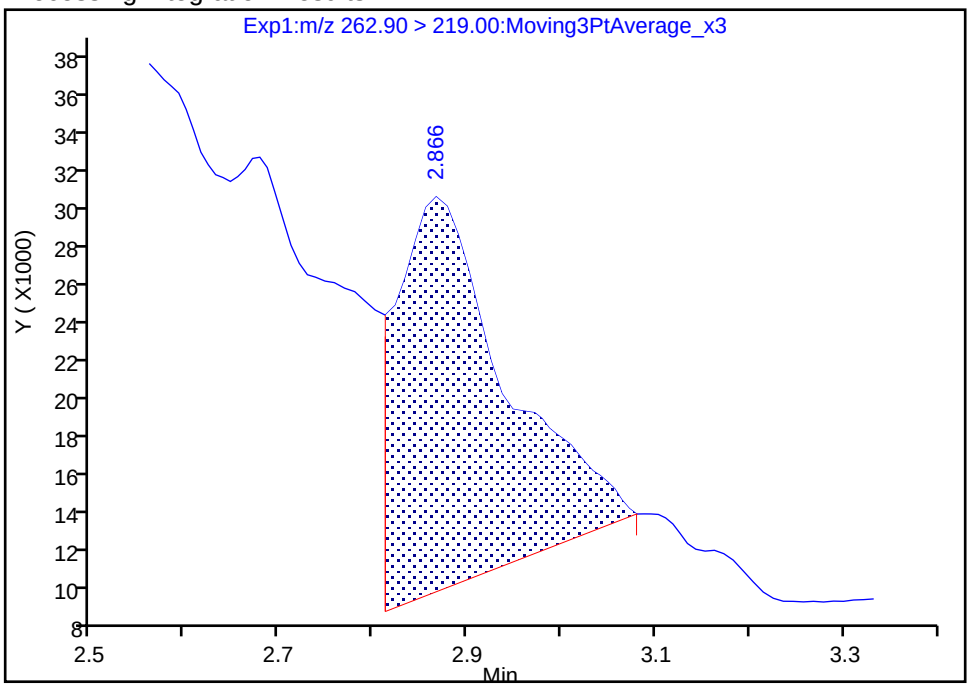
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

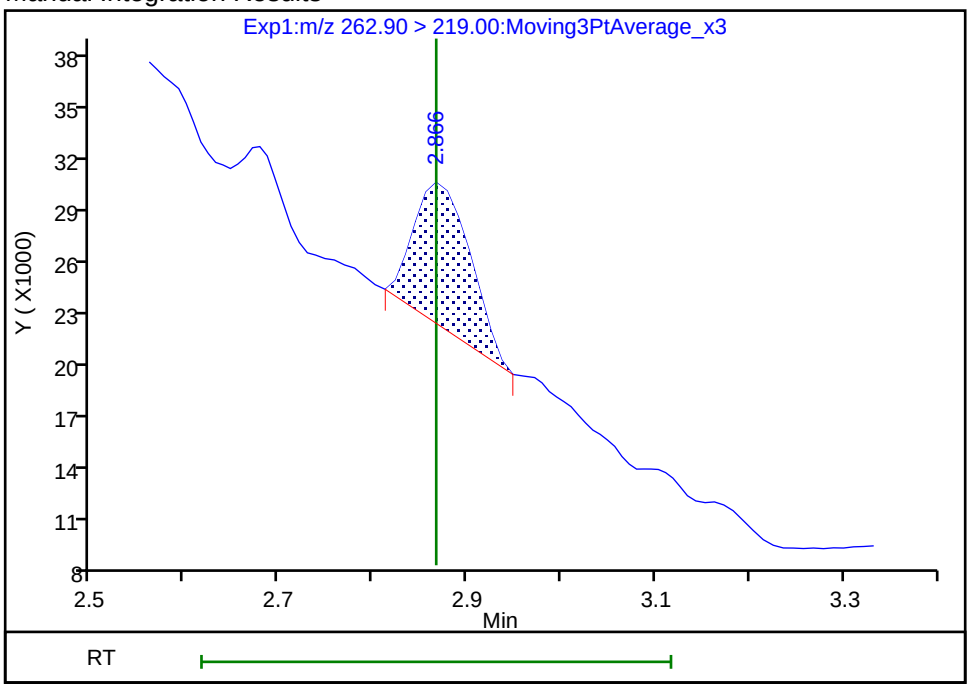
Processing Integration Results

RT: 2.87
Area: 160775
Amount: 0.101891
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 33446
Amount: 0.021196
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:33

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

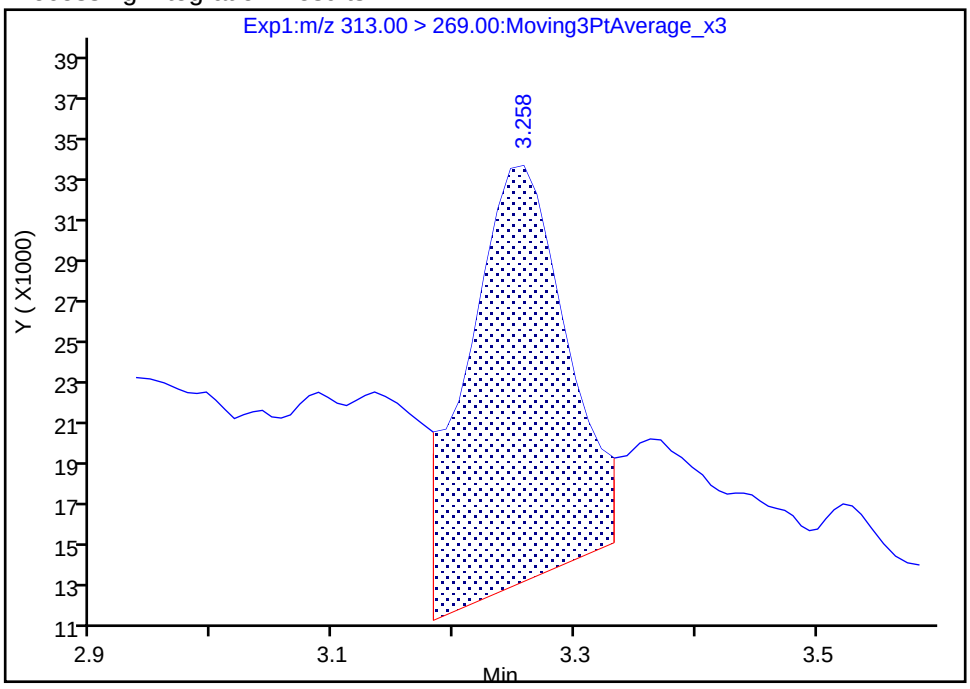
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

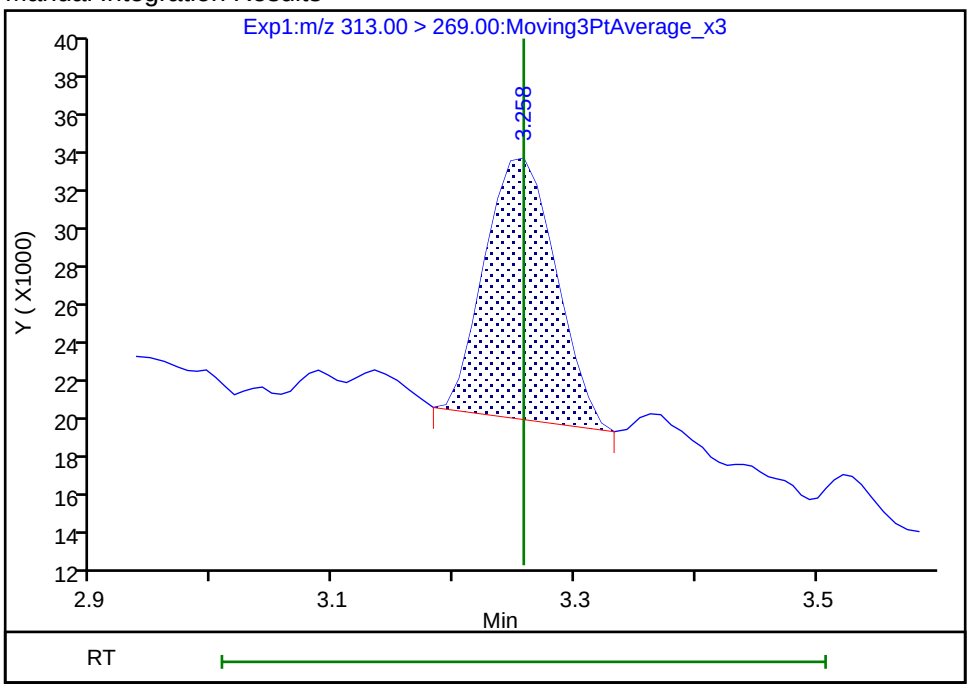
Processing Integration Results

RT: 3.26
Area: 113562
Amount: 0.050400
Amount Units: ng/ml



Manual Integration Results

RT: 3.26
Area: 54848
Amount: 0.024342
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

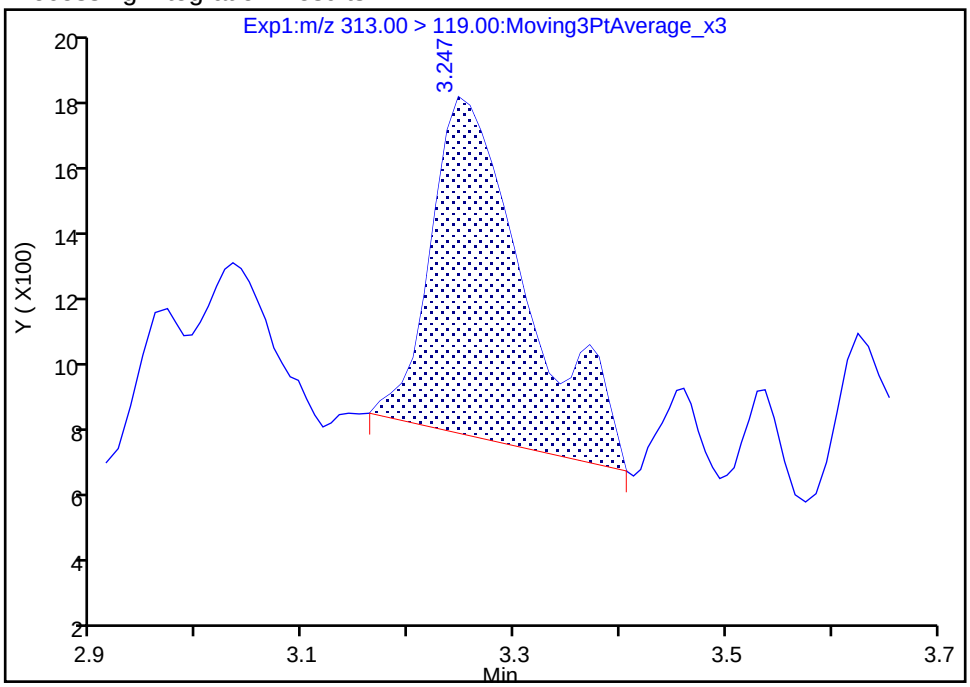
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

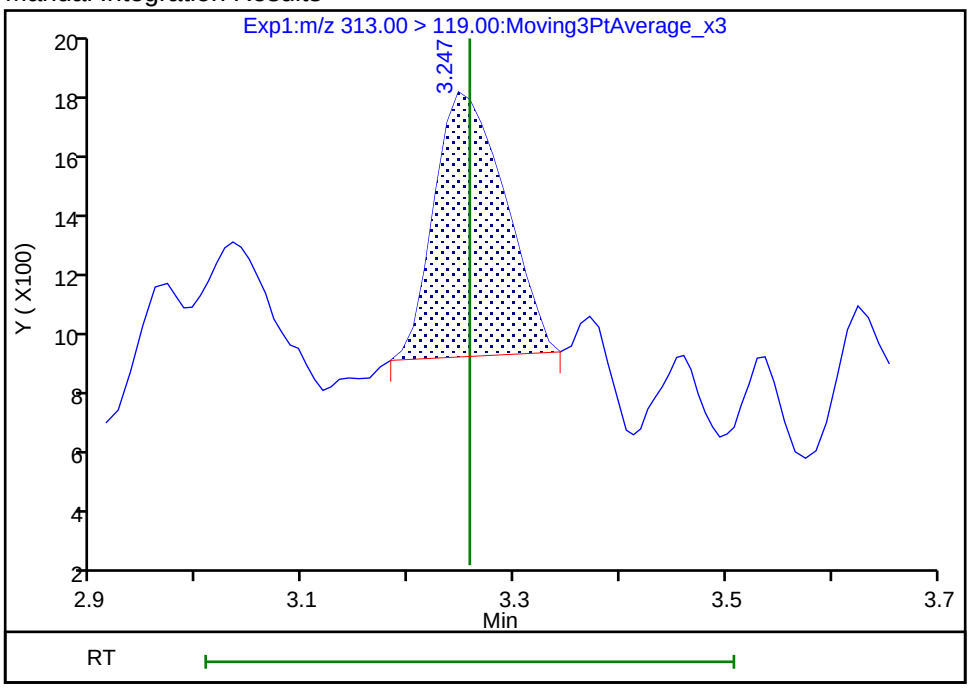
Processing Integration Results

RT: 3.25
Area: 5896
Amount: 0.050400
Amount Units: ng/ml



Manual Integration Results

RT: 3.25
Area: 3750
Amount: 0.024342
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

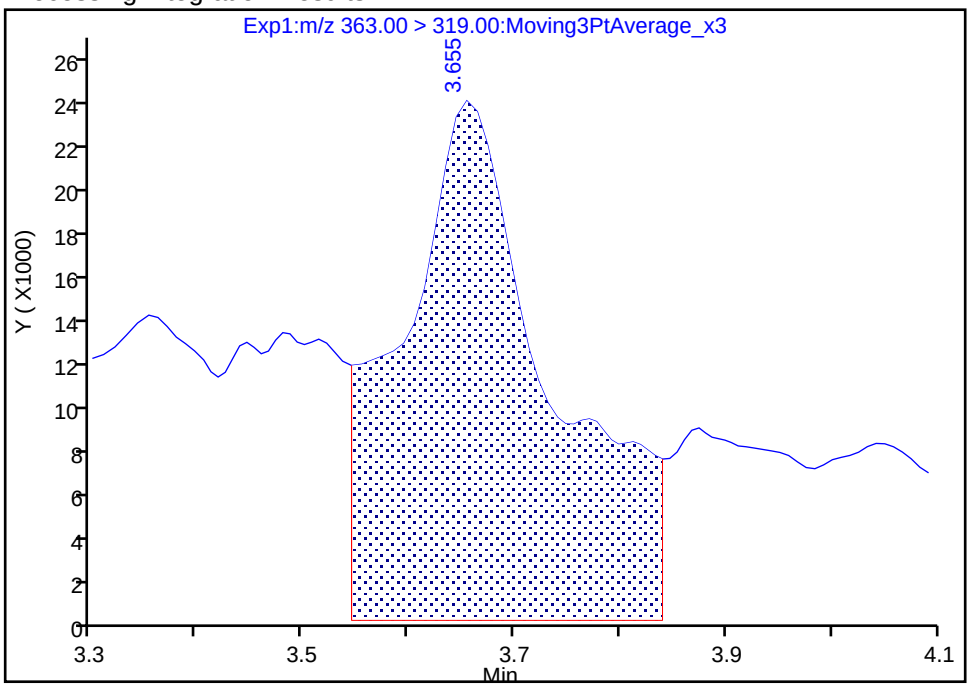
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

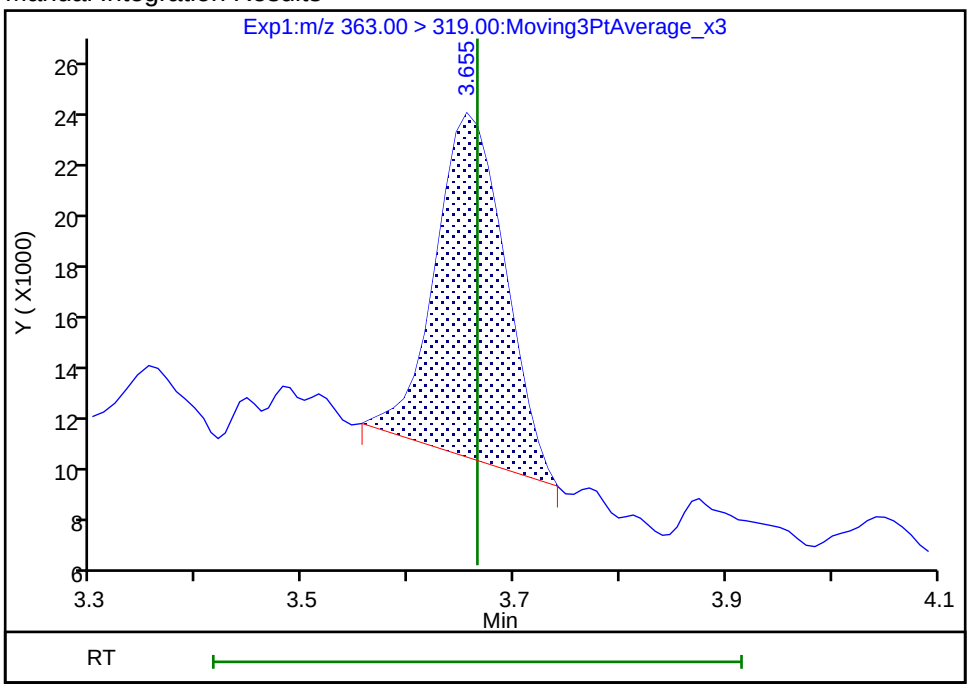
Processing Integration Results

RT: 3.65
Area: 230380
Amount: 0.096321
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 60167
Amount: 0.025156
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:49

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

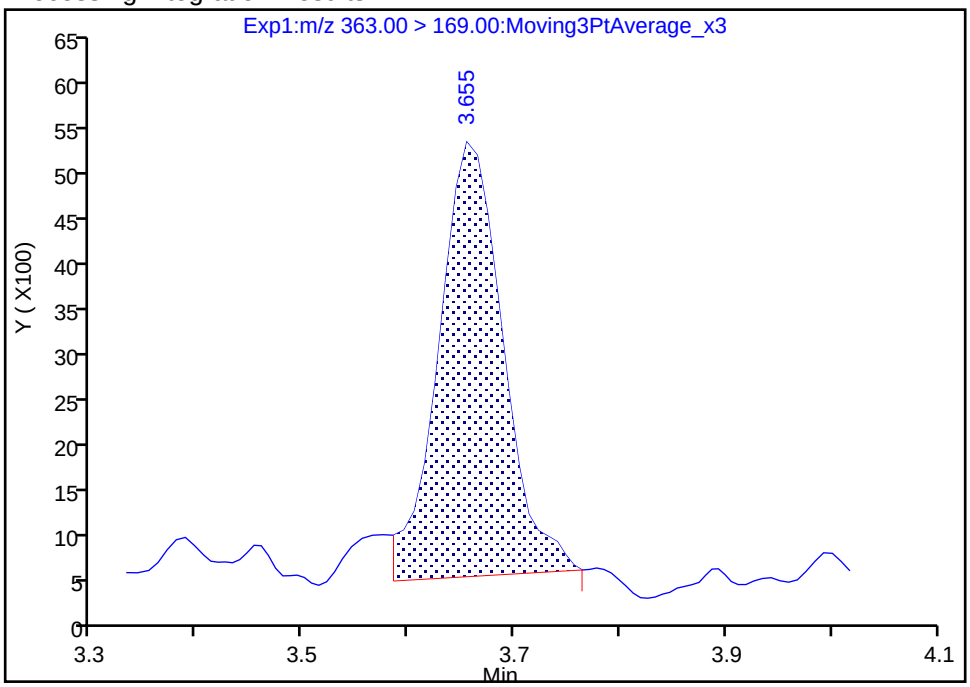
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

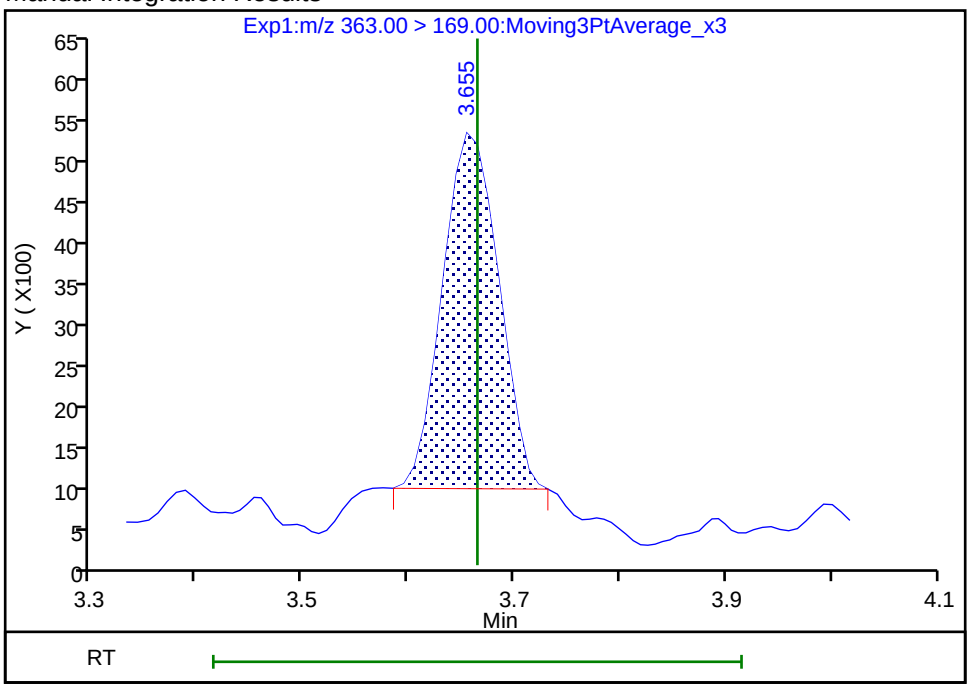
Processing Integration Results

RT: 3.65
Area: 20338
Amount: 0.096321
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 15998
Amount: 0.025156
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

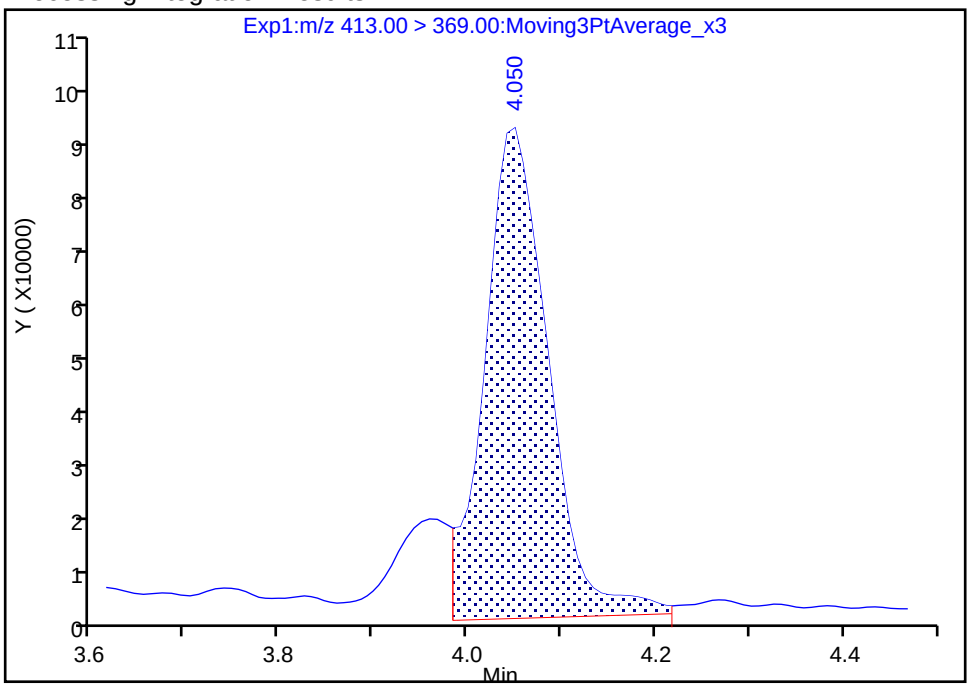
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

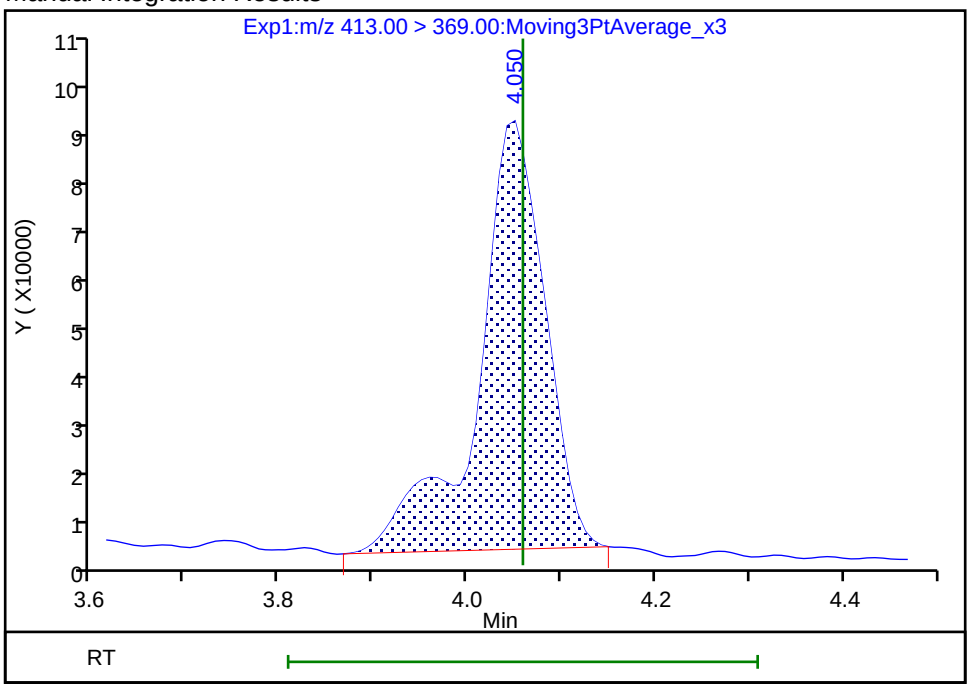
Processing Integration Results

RT: 4.05
Area: 421740
Amount: 0.143581
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 428081
Amount: 0.145740
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:13

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

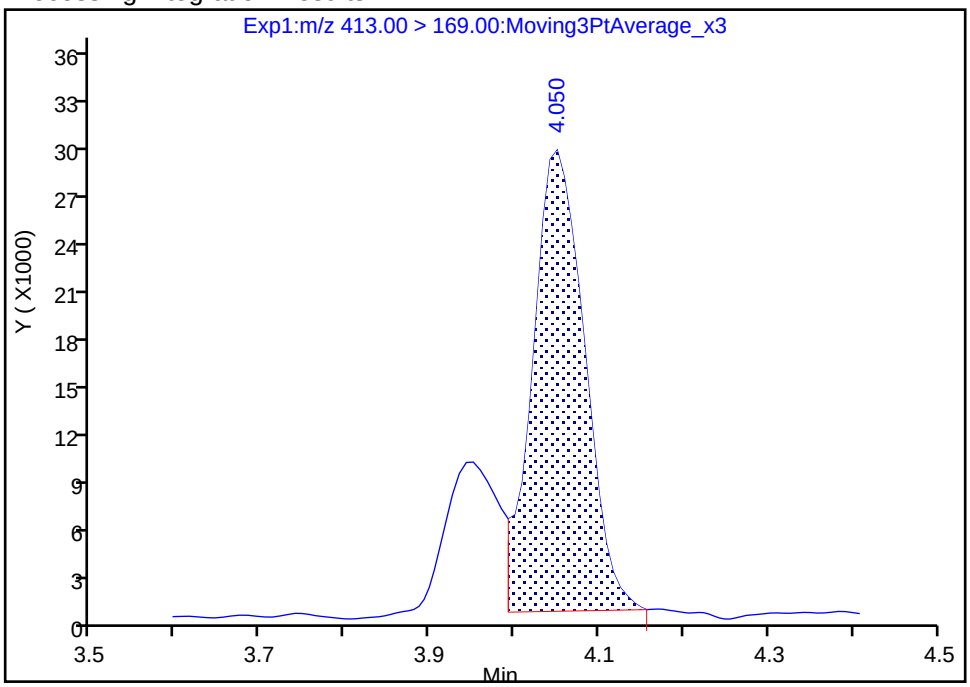
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

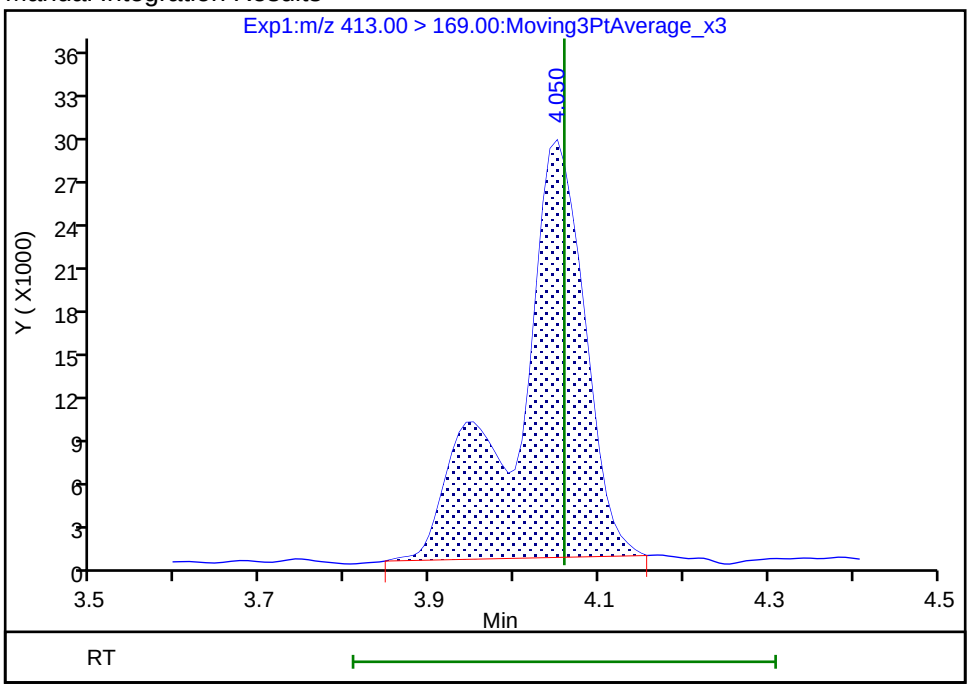
Processing Integration Results

RT: 4.05
Area: 122649
Amount: 0.143581
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 164155
Amount: 0.145740
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:16
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

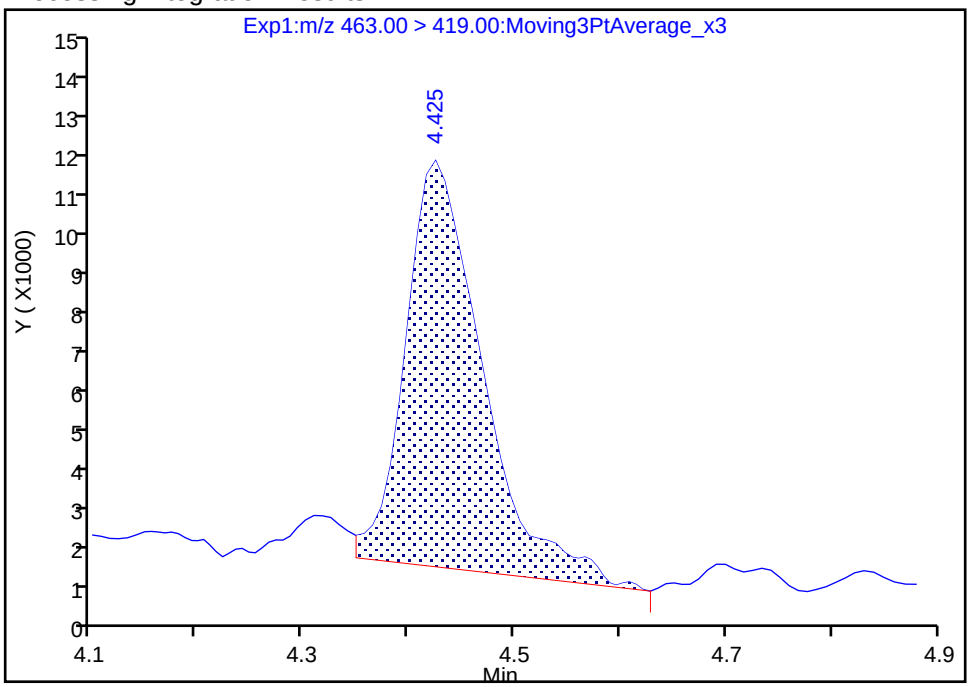
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

30 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

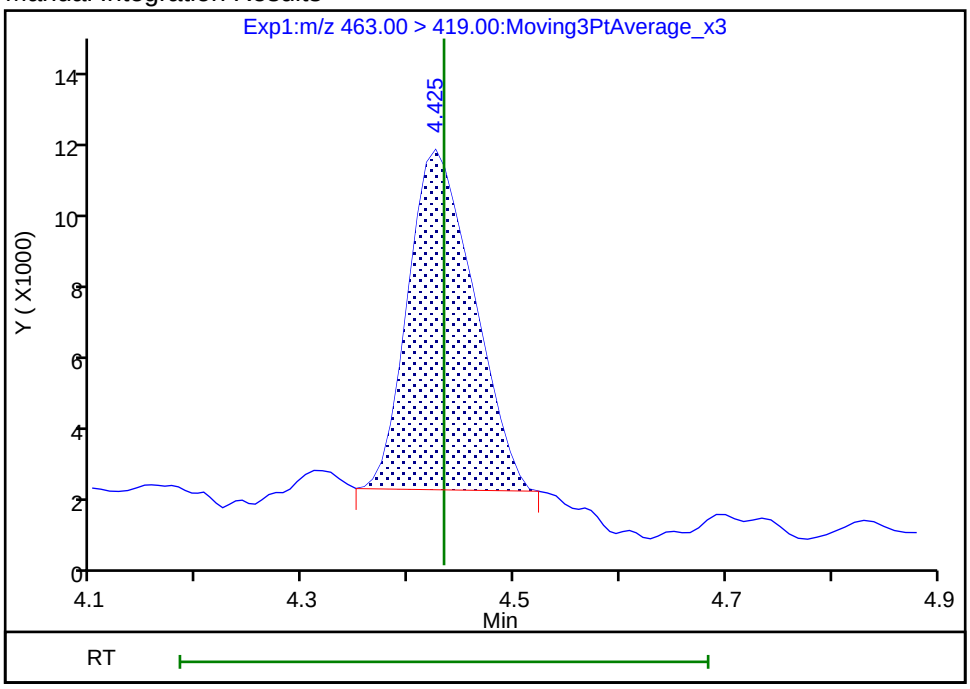
Processing Integration Results

RT: 4.43
Area: 50175
Amount: 0.020664
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 39488
Amount: 0.016263
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

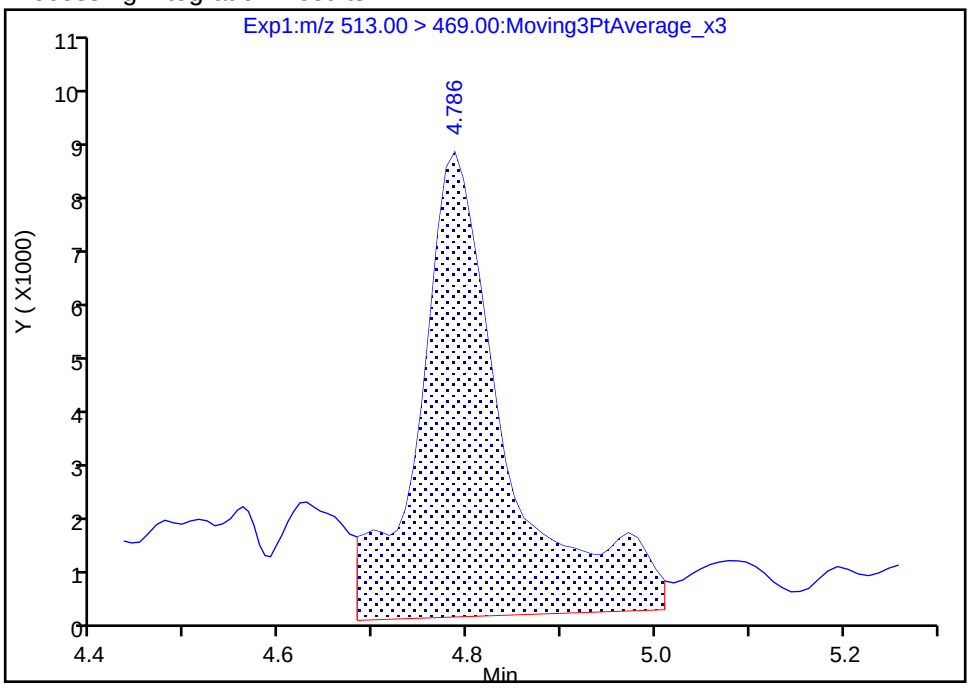
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

36 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

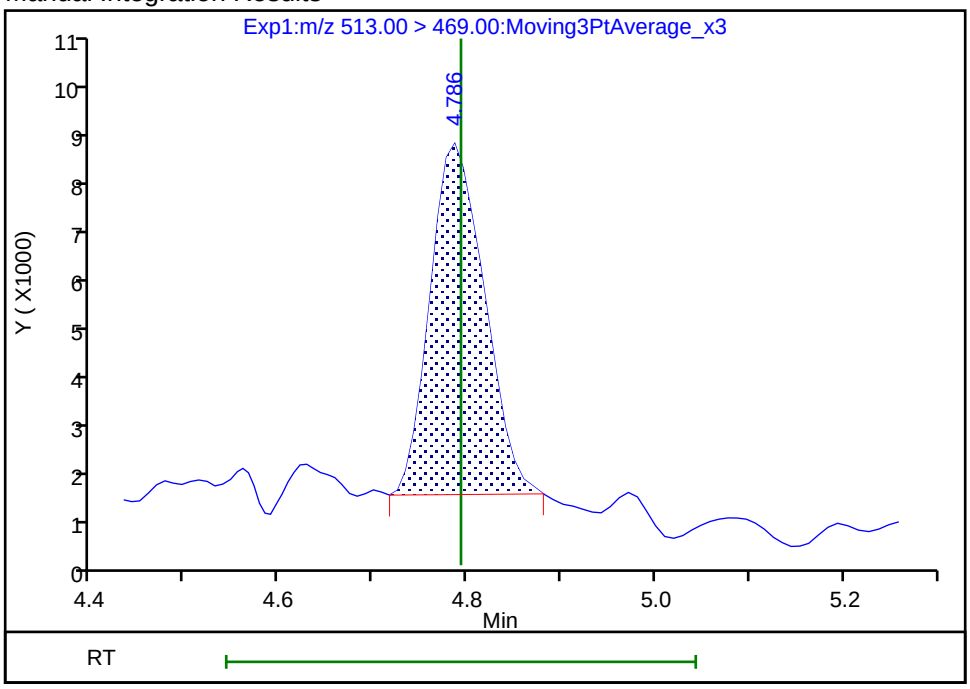
Processing Integration Results

RT: 4.79
Area: 54202
Amount: 0.020408
Amount Units: ng/ml



Manual Integration Results

RT: 4.79
Area: 27705
Amount: 0.010432
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

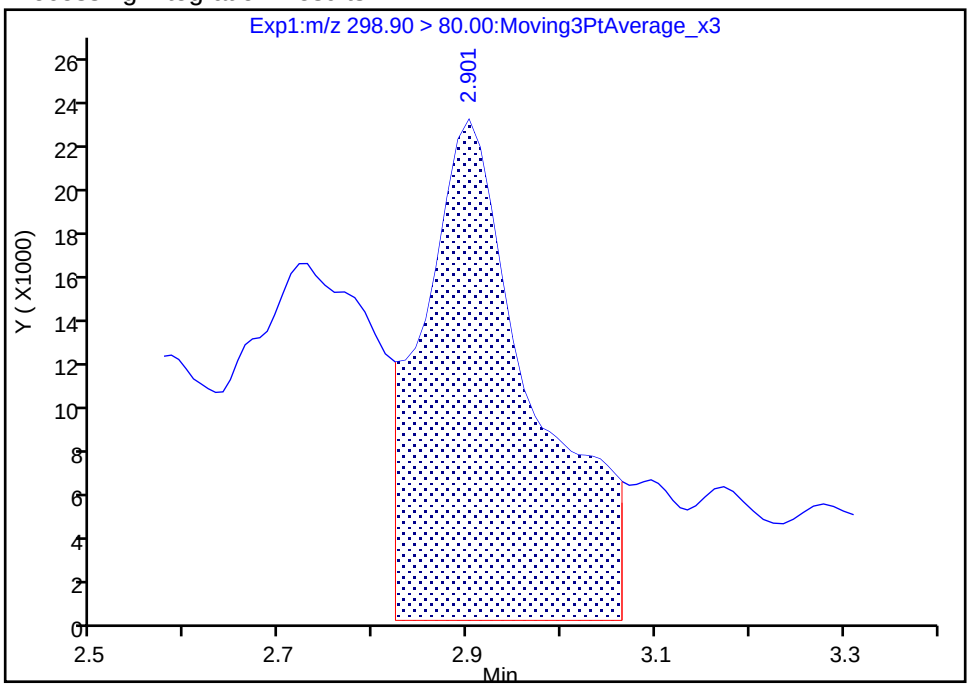
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

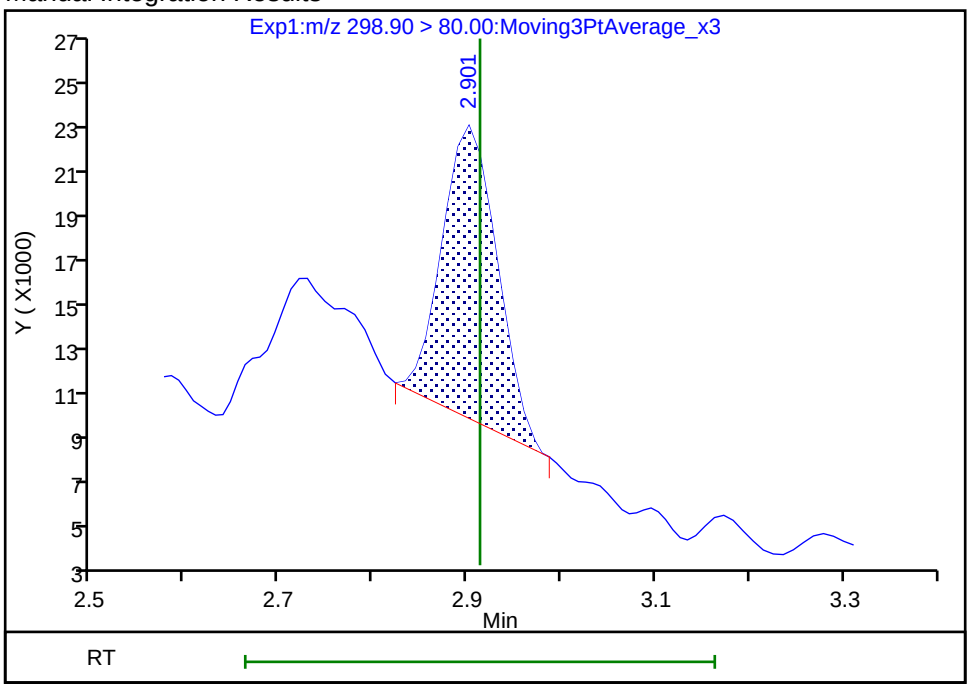
Processing Integration Results

RT: 2.90
Area: 188500
Amount: 0.073608
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 51812
Amount: 0.020232
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

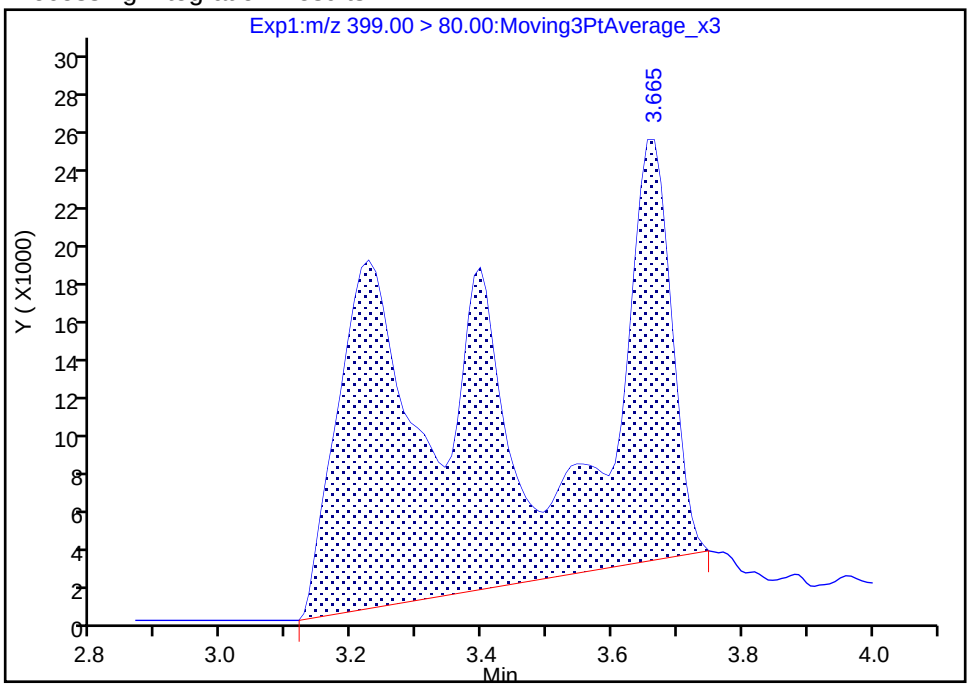
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

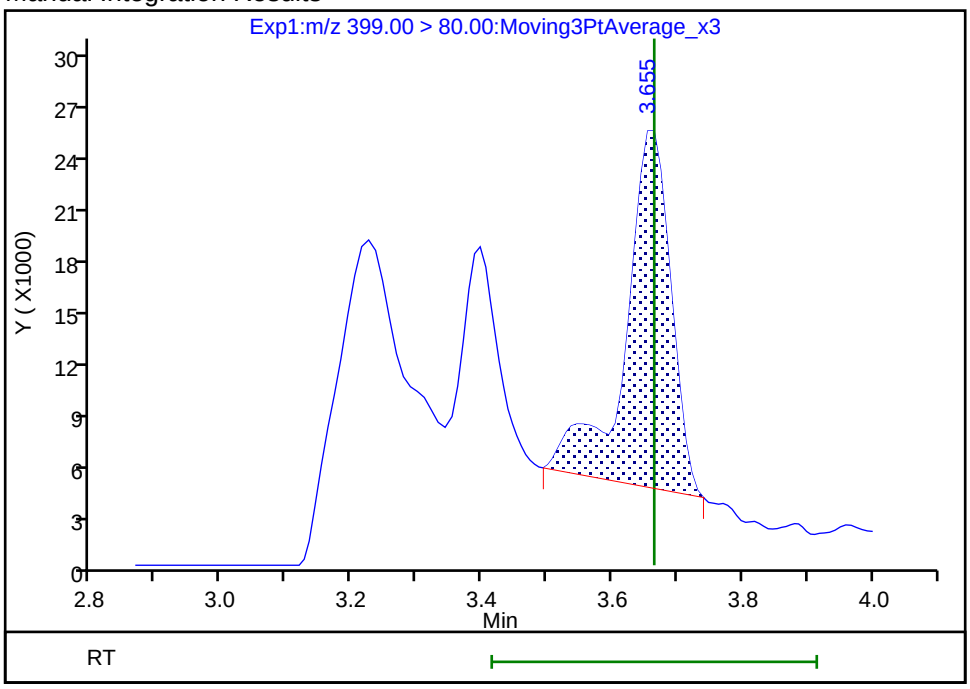
Processing Integration Results

RT: 3.66
Area: 351510
Amount: 0.179217
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 100502
Amount: 0.051241
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:45:58
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

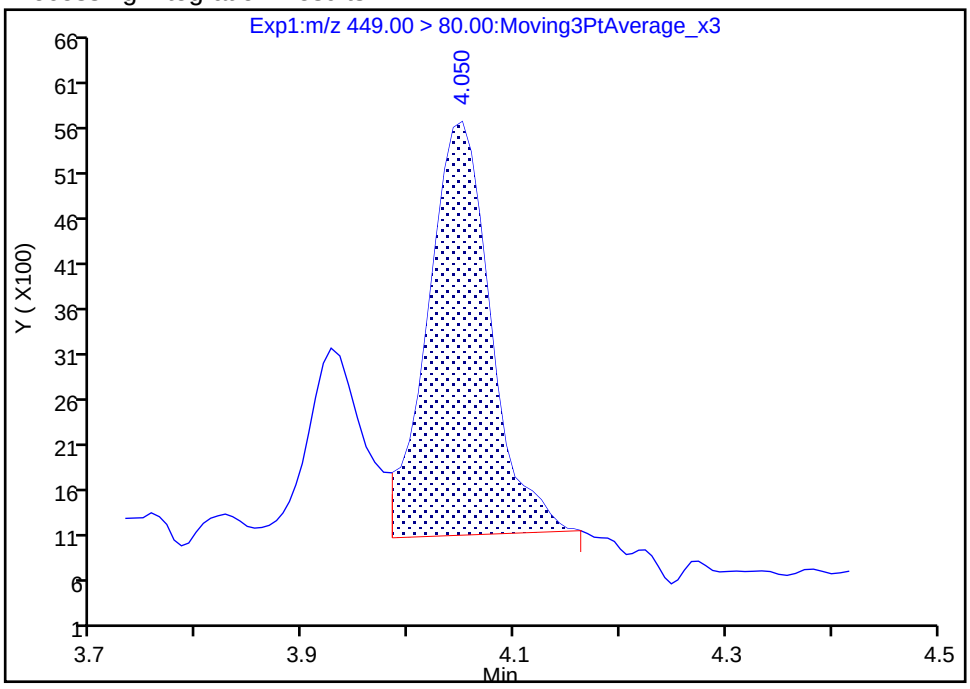
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

22 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

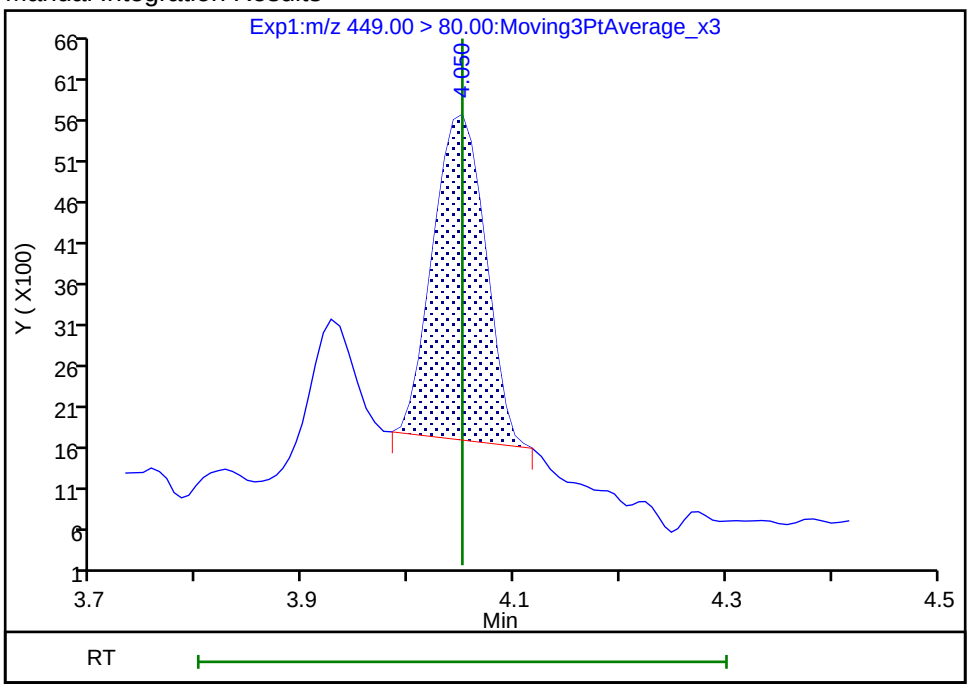
Processing Integration Results

RT: 4.05
Area: 18588
Amount: 0.013514
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 13512
Amount: 0.009823
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:05
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

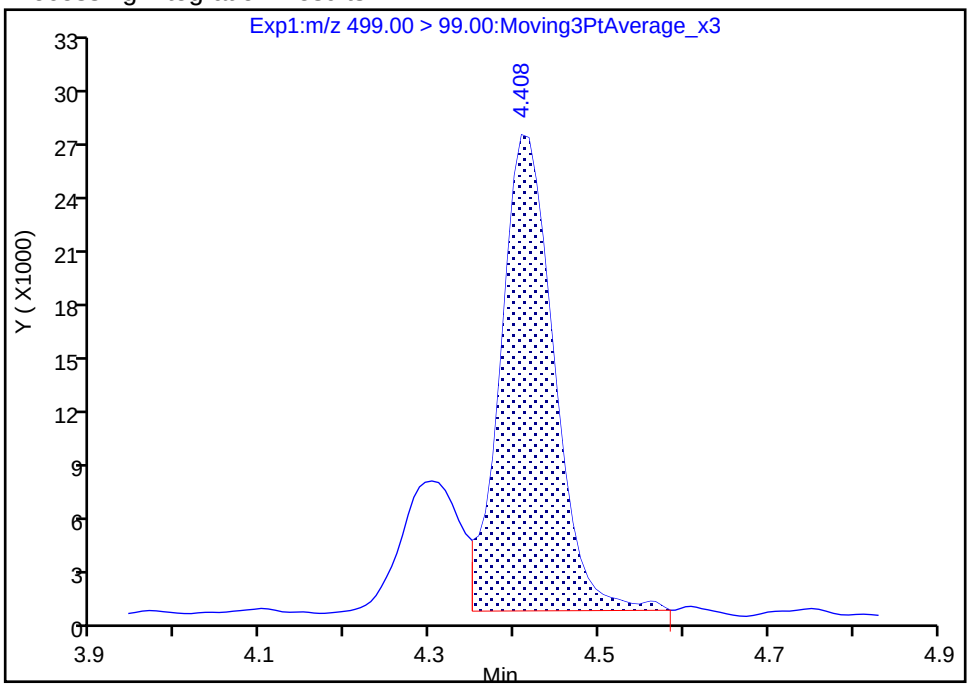
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

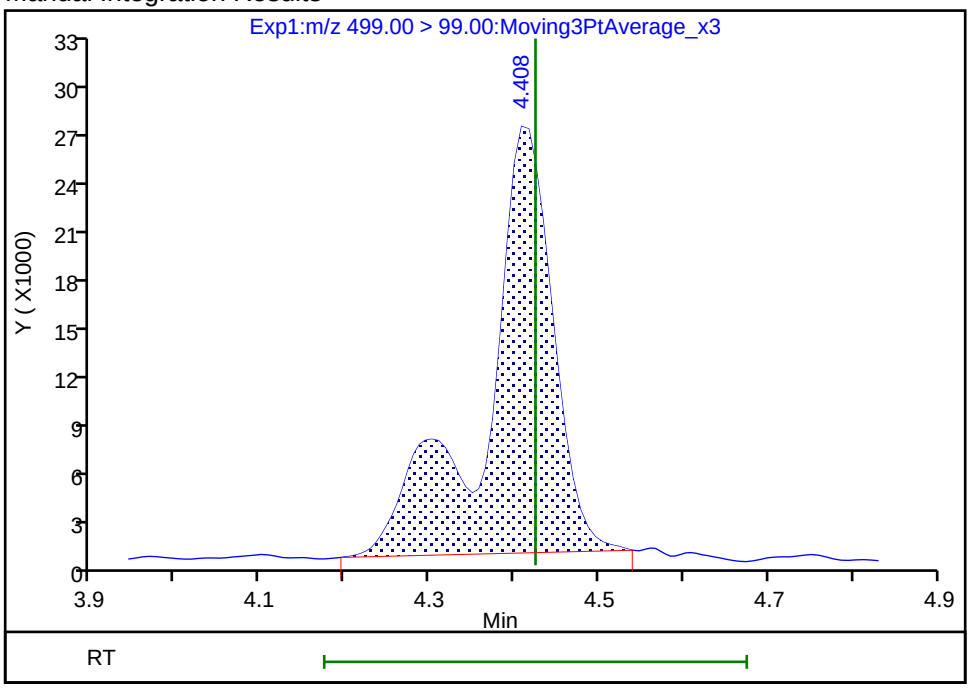
Processing Integration Results

RT: 4.41
Area: 117816
Amount: 0.622378
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 148539
Amount: 0.590536
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:22
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

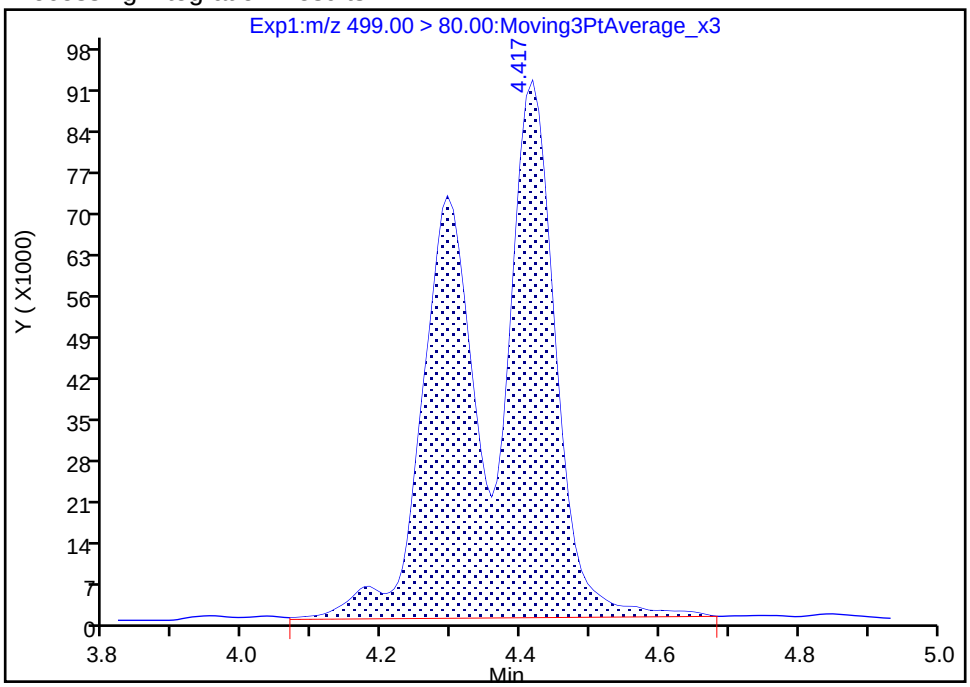
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

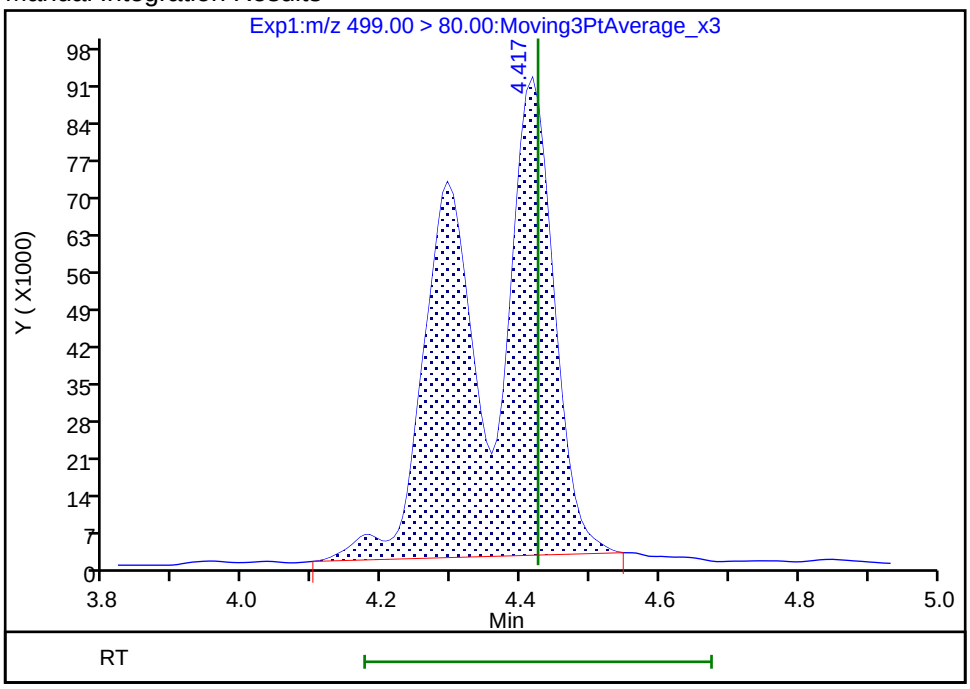
Processing Integration Results

RT: 4.42
Area: 780513
Amount: 0.622378
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 740580
Amount: 0.590536
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:25
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

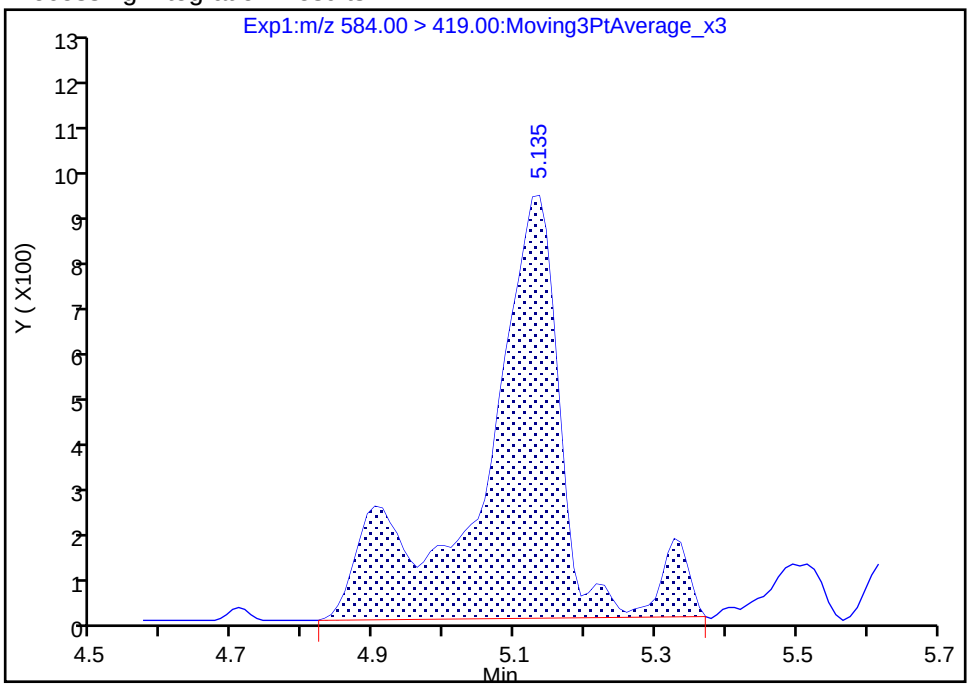
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_063.d				
Injection Date:	10-Sep-2020 18:45:30	Instrument ID:	A13		
Lims ID:	460-217659-D-2-A	Lab Sample ID:	320-217659-2		
Client ID:	MW-207				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	36	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

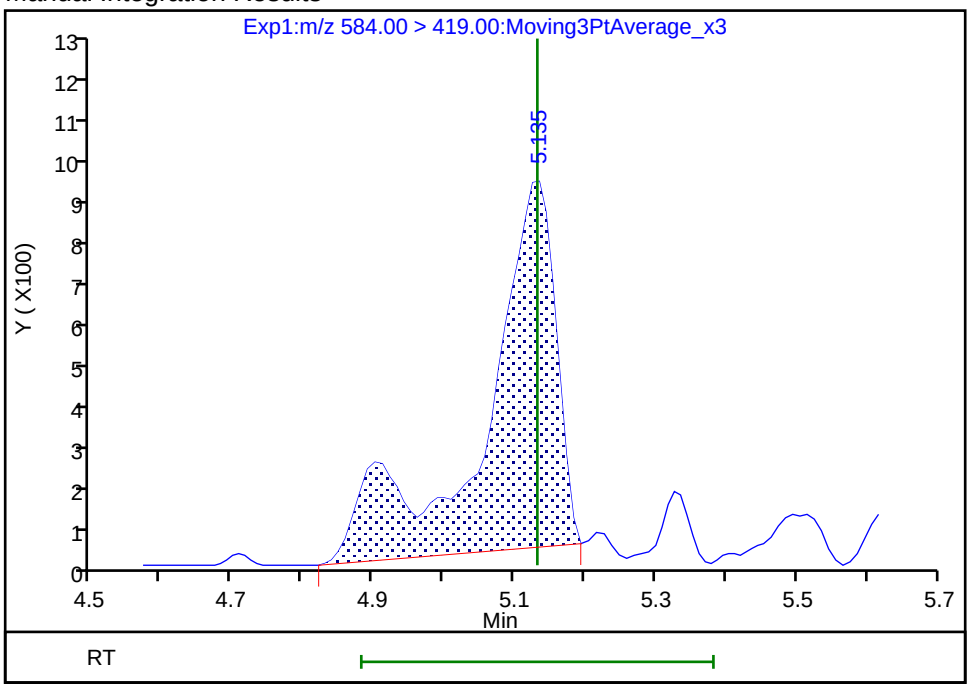
Processing Integration Results

RT: 5.14
Area: 7105
Amount: 0.007132
Amount Units: ng/ml



Manual Integration Results

RT: 5.14
Area: 5983
Amount: 0.006006
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:46:50

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-210 Lab Sample ID: 460-217659-3

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_064.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 10:35

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 248.8(mL) Date Analyzed: 09/10/2020 18:54

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.54	J B	2.01	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.60	J	2.01	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	2.01	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.73	J	2.01	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	2.32		2.01	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	2.01	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	2.01	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.11	U	2.01	1.11
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.01	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.31	U	2.01	1.31
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.01	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.10	J	2.01	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.02	J B	2.01	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.01	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.56	cn	2.01	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.01	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.36	J	2.01	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.11	U	20.1	3.11
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.91	U	20.1	1.91
27619-97-2	6:2 FTS	2.01	U	20.1	2.01
39108-34-4	8:2 FTS	2.01	U	20.1	2.01

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-210 Lab Sample ID: 460-217659-3

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_064.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 10:35

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 248.8(mL) Date Analyzed: 09/10/2020 18:54

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	56		25-150
STL01893	13C5 PFPeA	63		25-150
STL00993	13C2 PFHxA	71		25-150
STL01892	13C4 PFHpA	71		25-150
STL00990	13C4 PFOA	66		25-150
STL00995	13C5 PFNA	69		25-150
STL00996	13C2 PFDA	70		25-150
STL00997	13C2 PFUnA	65		25-150
STL00998	13C2 PFDoA	58		25-150
STL02116	13C2 PFTeDA	60		25-150
STL02337	13C3 PFBS	84		25-150
STL00994	18O2 PFHxS	86		25-150
STL00991	13C4 PFOS	81		25-150
STL01056	13C8 FOSA	68		25-150
STL02118	d3-NMeFOSAA	62		25-150
STL02117	d5-NEtFOSAA	66		25-150
STL02279	M2-6:2 FTS	85		25-150
STL02280	M2-8:2 FTS	89		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d
Lims ID: 460-217659-D-3-A
Client ID: MW-210
Sample Type: Client
Inject. Date: 10-Sep-2020 18:54:55 ALS Bottle#: 37 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-3-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 09:48:24 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 09:48:24
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.610	5353602	1.41		56.5	7208	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.482	-0.007	1.003	61151	0.0384			2.6	
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.867	-0.001	0.709	4654500	1.57		63.0	3693	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.856	2.867	-0.011	0.996	28469	0.0149			0.6	M
D 14 13C3 PFBS										
301.90 > 80.00	2.902	2.913	-0.011	0.718	7269411	1.96		84.2	585	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.902	2.913	-0.011	1.000	83313	0.0273	Target=2.29		3.1	M
298.90 > 99.00	2.902	2.913	-0.011	1.000	43543		1.91(1.15-3.44)		4.7	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.803	6524797	1.79		71.5	9671	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.904	4954053	2.04		86.1	1814	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.655	3.665	-0.010	1.000	46547	0.0181	Target=3.87		1.8	M
363.00 > 169.00	3.655	3.665	-0.010	1.000	12234		3.80(1.93-5.80)		4.9	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	59259	0.0254	Target=3.08		9.8	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	16714		3.55(1.54-4.62)		5.9	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.904	6355524	1.77		70.7	5347	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.026	4.042	-0.016	0.996	2110958	2.01		84.8	664	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	1.000	21585	0.0101			16.1	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.002	7217198	1.64		65.7	6018	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.051	4.059	-0.008	1.000	170597	0.0578	Target=2.99		9.1	M
413.00 > 169.00	4.051	4.059	-0.008	1.000	67579		2.52(1.50-4.49)		42.5	M
* 25 13C2 PFOA										
415.00 > 370.00	4.042	4.059	-0.017		11157963	2.50			27424	
28 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	4.288	4.425	-0.137	0.973	129766	0.0887	Target=4.13		23.1	RM
499.00 > 99.00	4.302	4.425	-0.123	0.976	20839		6.23(2.06-6.19)		9.2	M
D 29 13C4 PFOS										
503.00 > 80.00	4.408	4.425	-0.017	1.091	3368725	1.94		81.2	1434	
D 31 13C5 PFNA										
468.00 > 423.00	4.425	4.442	-0.017	1.095	6973239	1.72		68.7	12373	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.171	4233962	1.70		67.9	5676	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	14322	0.009012			44.2	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.184	8661129	1.76		70.4	12193	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.184	2943354	2.12		88.6	1634	
39 8:2 FTS										
527.00 > 507.00	4.795	4.802	-0.007	1.002	2578	0.000849			10.8	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.942	4.959	-0.017	1.223	3932248	1.55		62.0	3419	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.263	7800293	1.62		64.8	4849	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.106	5.123	-0.017	1.263	4075650	1.66		66.4	2133	
48 NEtFOSA										
584.00 > 419.00	5.126	5.132	-0.006	1.004	4616	0.003658			12.4	
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.335	7543735	1.46		58.3	5261	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.396	5.409	-0.013	1.000	7043	0.002559	Target=9.00		4.6	
613.00 > 169.00	5.387	5.409	-0.022	0.998	1301		5.41(4.50-13.49)		7.8	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.916	5.920	-0.004	1.463	7646555	1.49		59.8	7636	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags
M - Manually Integrated

Report Date: 11-Sep-2020 09:48:25 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d

Injection Date: 10-Sep-2020 18:54:55 Instrument ID: A13

Lims ID: 460-217659-D-3-A Lab Sample ID: 320-217659-3

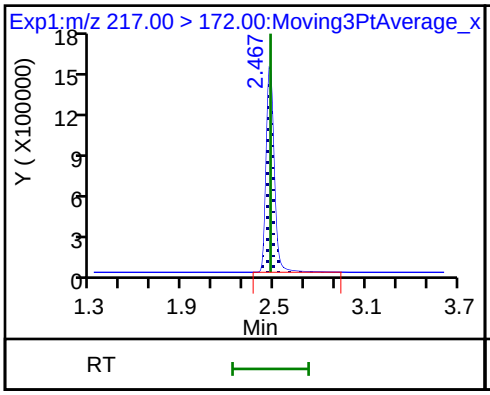
Client ID: MW-210

Operator ID: SACINSTLCMS01 ALS Bottle#: 37 Worklist Smp#: 7

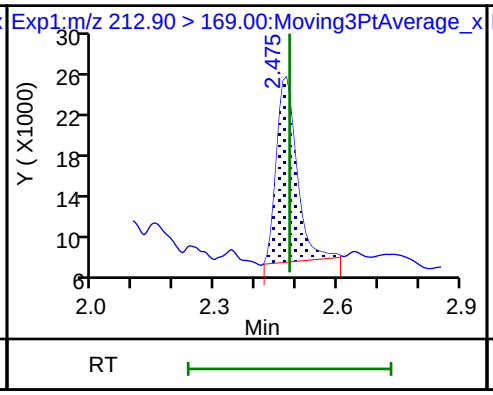
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

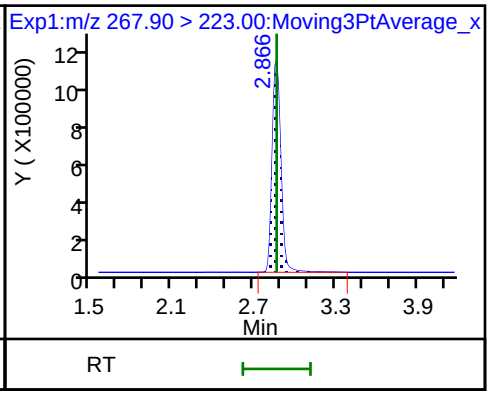
D 1 13C4 PFBA



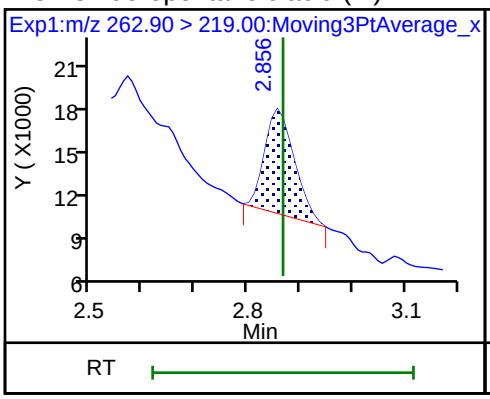
2 Perfluorobutanoic acid



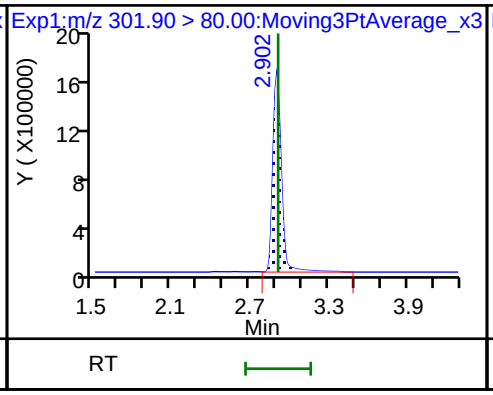
D 4 13C5 PFPeA



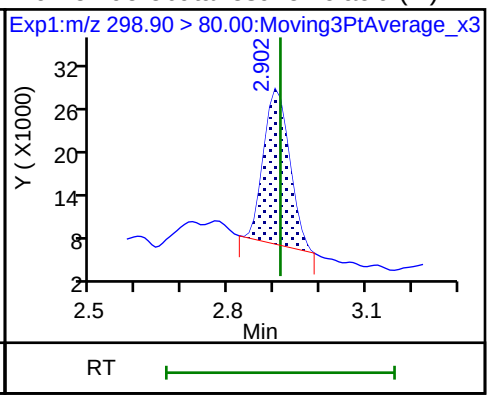
5 Perfluoropentanoic acid (M)



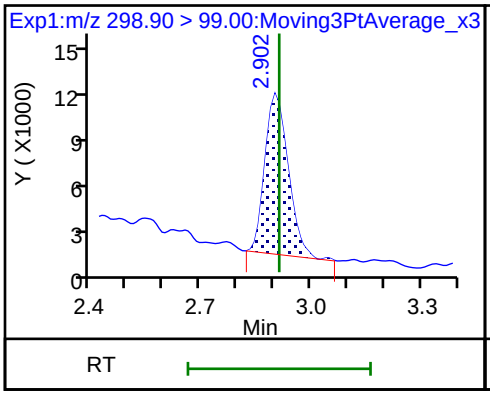
D 14 13C3 PFBS



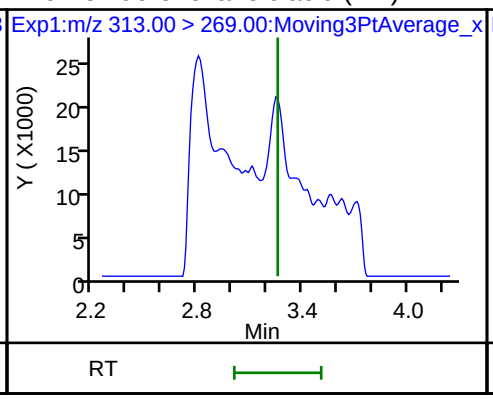
6 Perfluorobutanesulfonic acid (M)



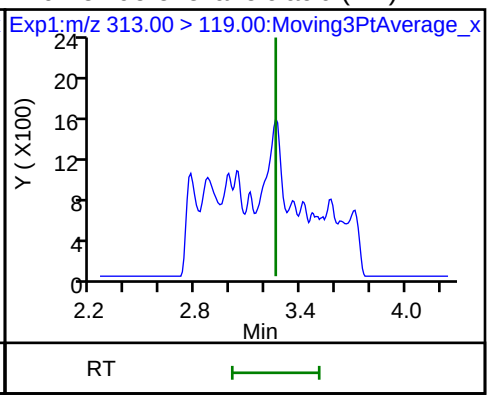
6 Perfluorobutanesulfonic acid



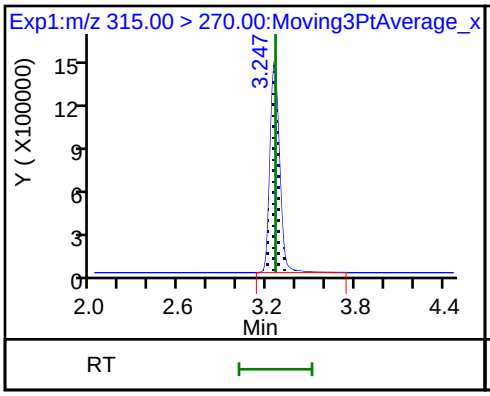
10 Perfluorohexanoic acid (ND)



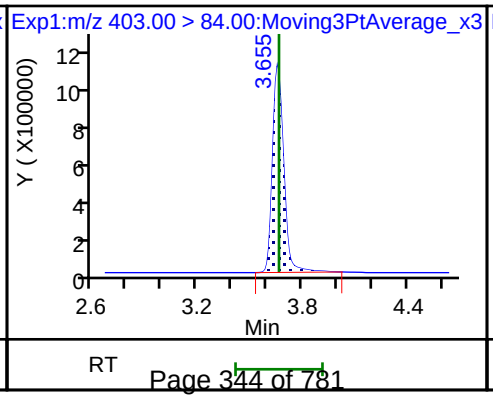
10 Perfluorohexanoic acid (ND)



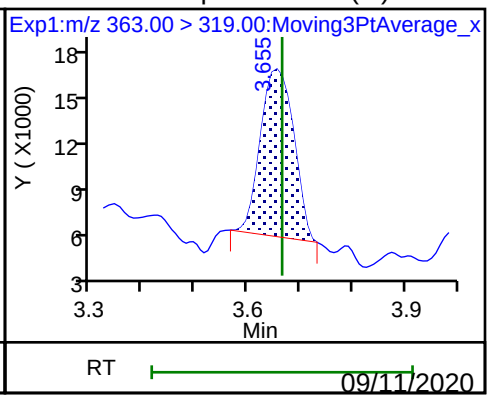
D 9 13C2 PFHxA



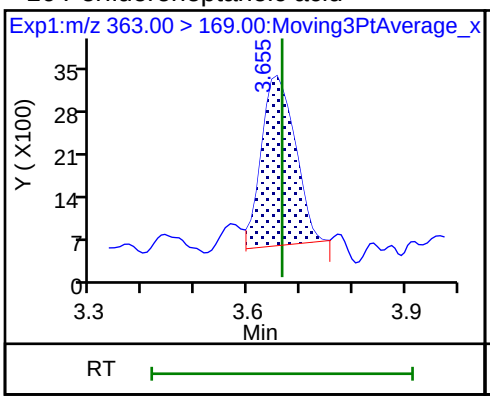
D 17 18O2 PFHxS



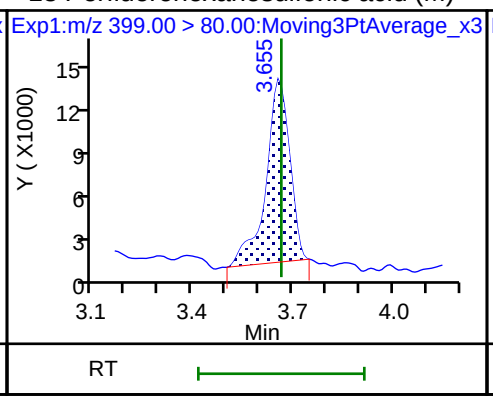
16 Perfluoroheptanoic acid (M)



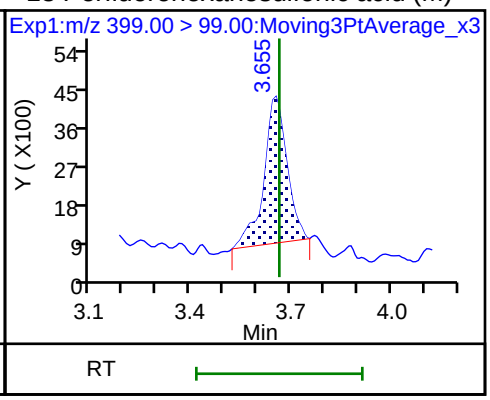
16 Perfluoroheptanoic acid



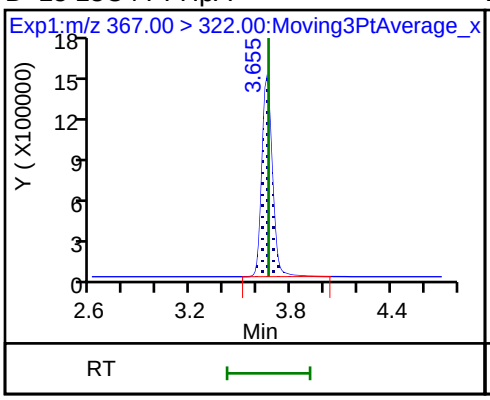
18 Perfluorohexanesulfonic acid (M)



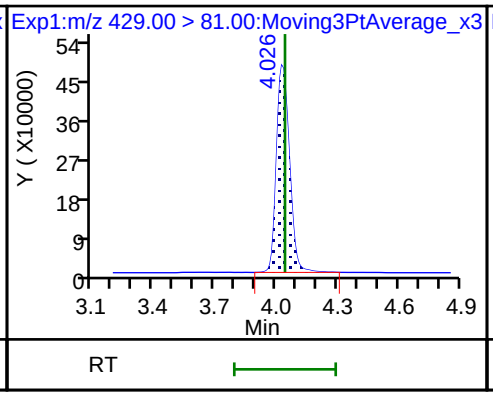
18 Perfluorohexanesulfonic acid (M)



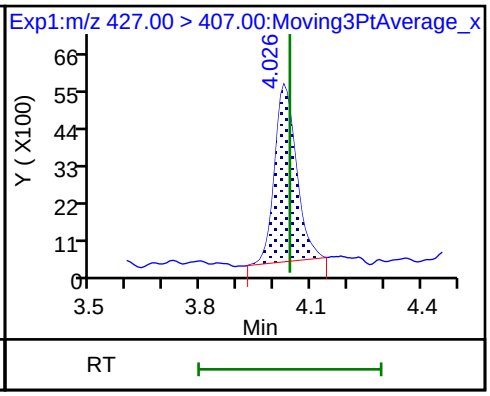
D 15 13C4 PFHpA



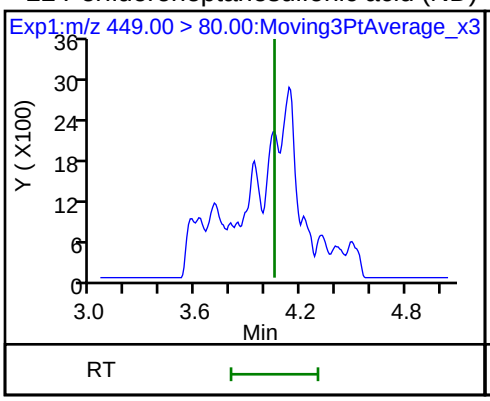
D 20 M2-6:2 FTS



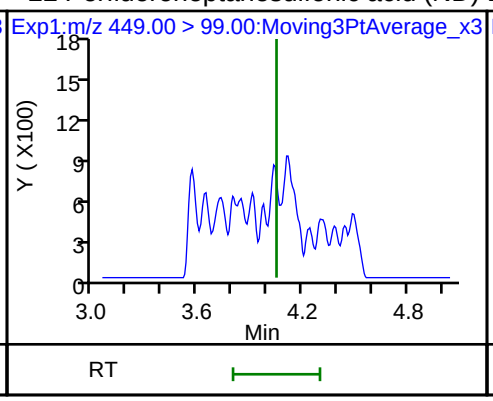
21 6:2 FTS



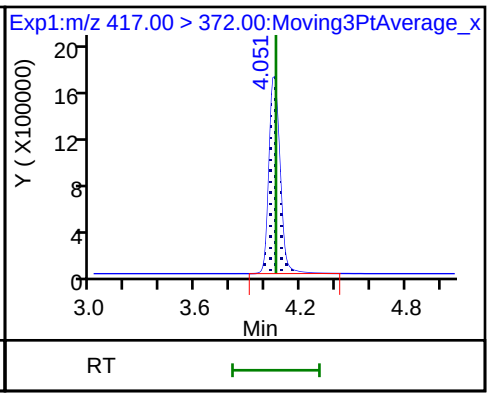
22 Perfluoroheptanesulfonic acid (ND)



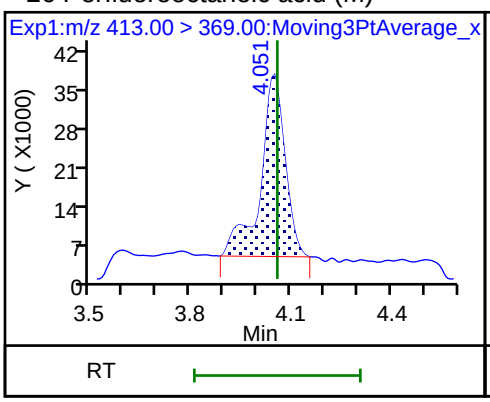
22 Perfluoroheptanesulfonic acid (ND)



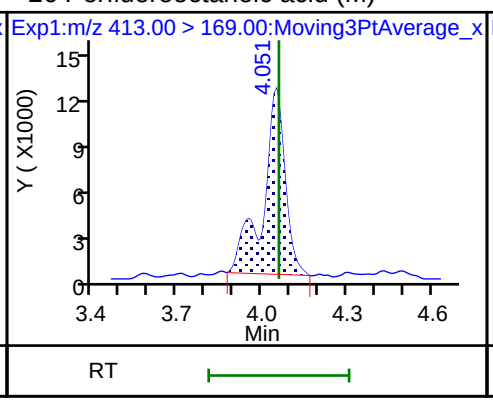
D 24 13C4 PFOA



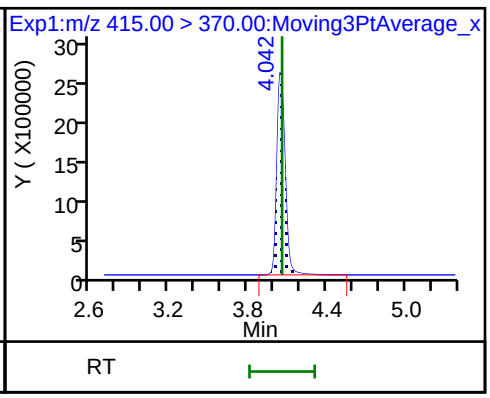
26 Perfluorooctanoic acid (M)



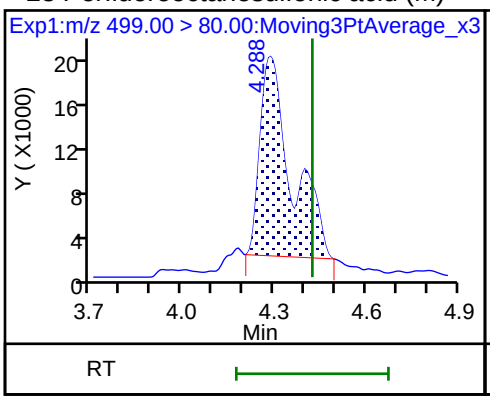
26 Perfluorooctanoic acid (M)



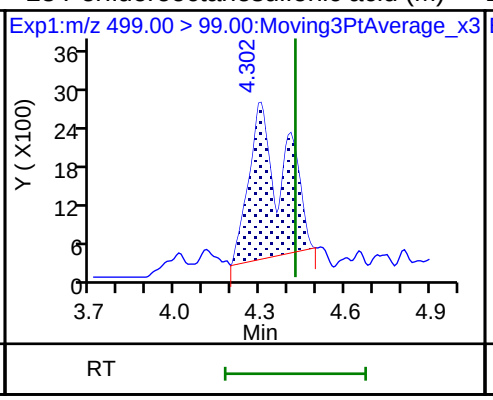
* 25 13C2 PFOA



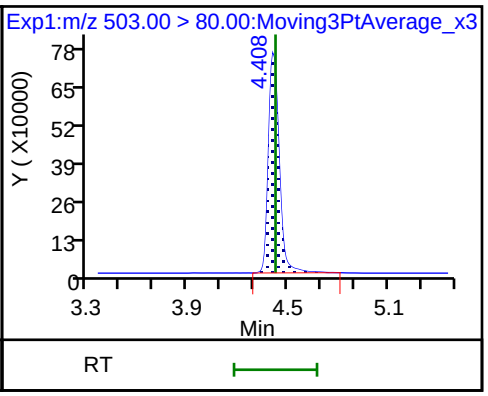
28 Perfluorooctanesulfonic acid (M)



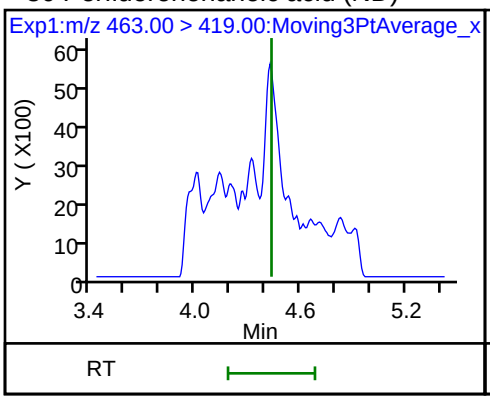
28 Perfluorooctanesulfonic acid (M)



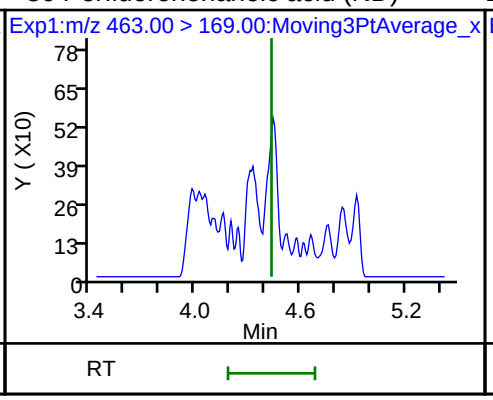
D 29 13C4 PFOS



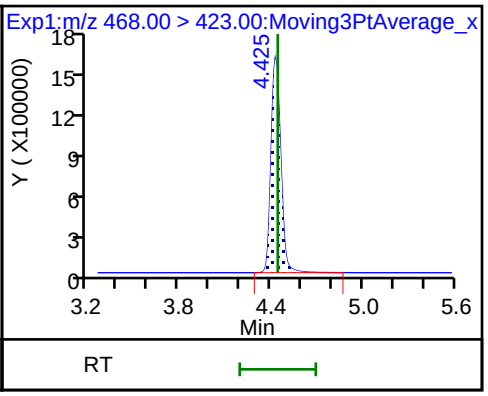
30 Perfluorononanoic acid (ND)



30 Perfluorononanoic acid (ND)



D 31 13C5 PFNA



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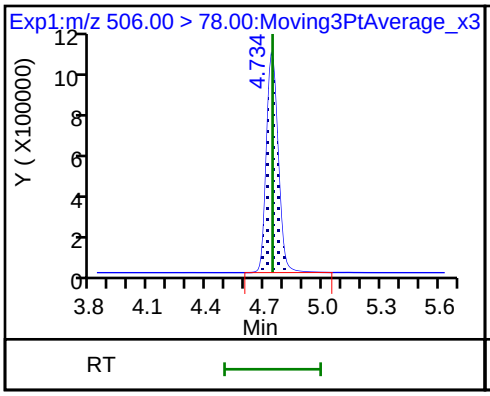
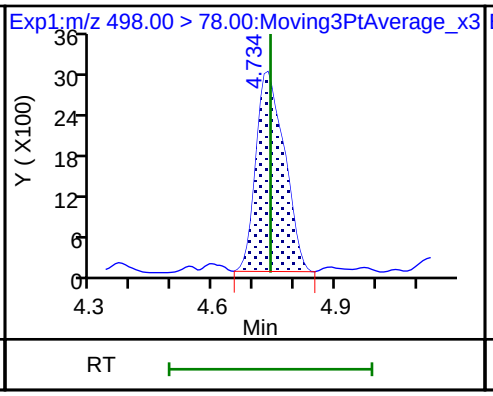
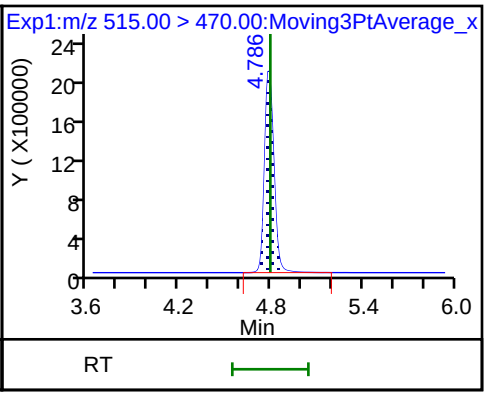


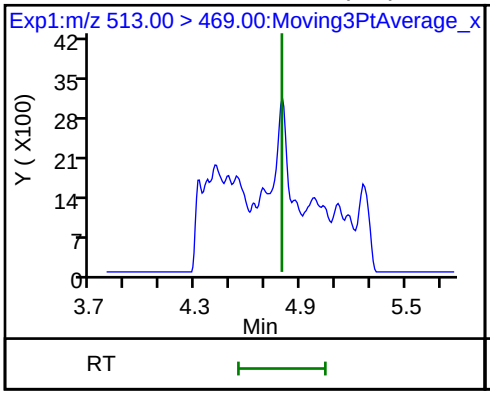
33 Perfluorooctanesulfonamide



D 37 13C2 PFDA



36 Perfluorodecanoic acid (ND)



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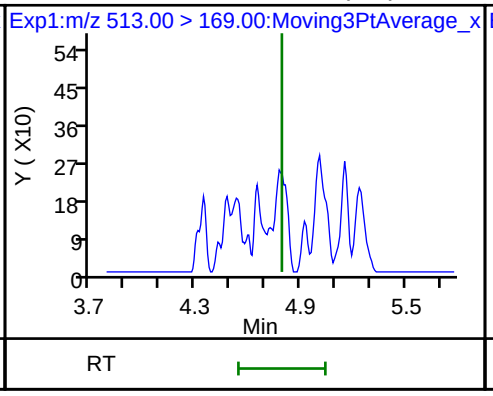
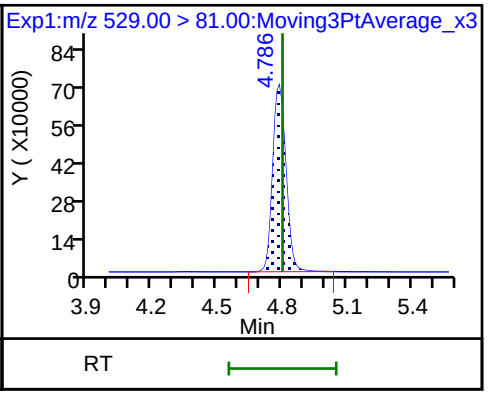
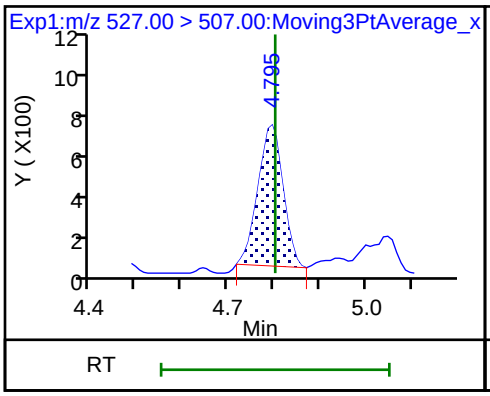


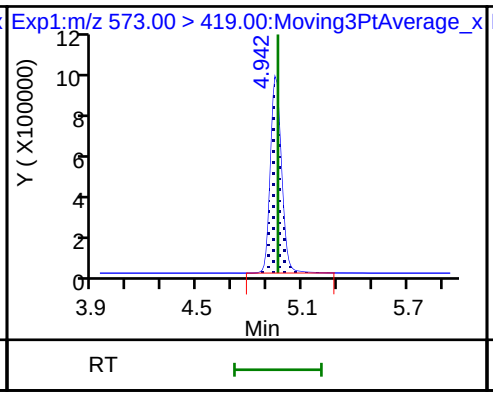
D 38 M2-8:2 FTS



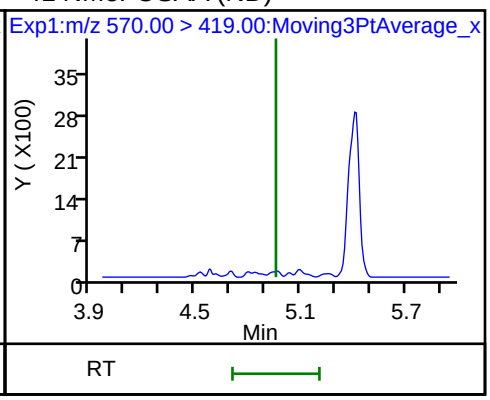
39 8:2 FTS



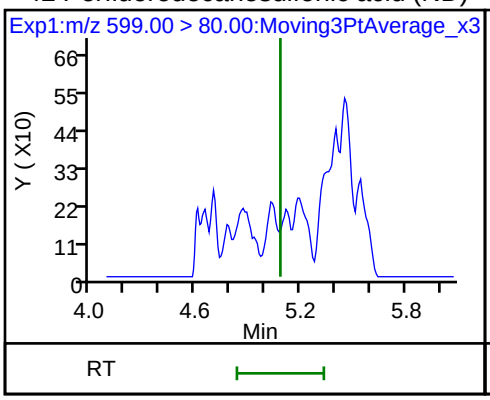
D 40 d3-NMeFOSAA



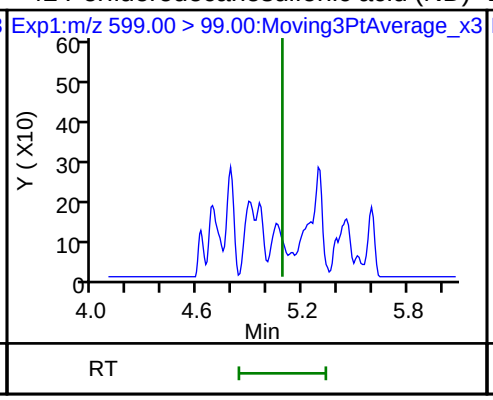
41 NMeFOSAA (ND)



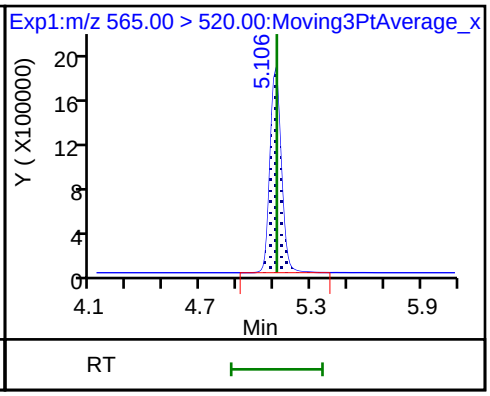
42 Perfluorodecanesulfonic acid (ND)



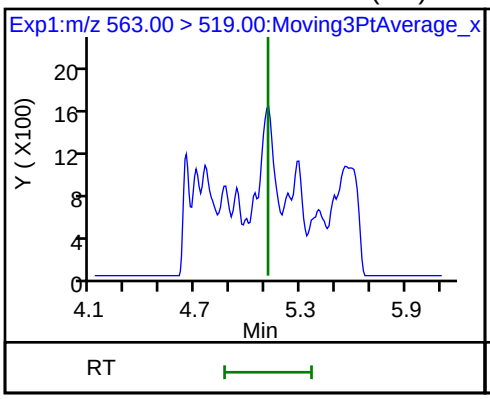
42 Perfluorodecanesulfonic acid (ND)



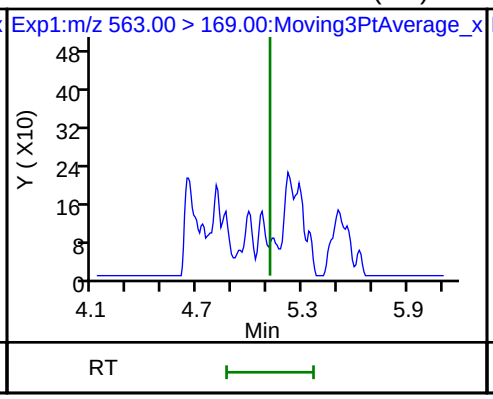
D 44 13C2 PFUnA



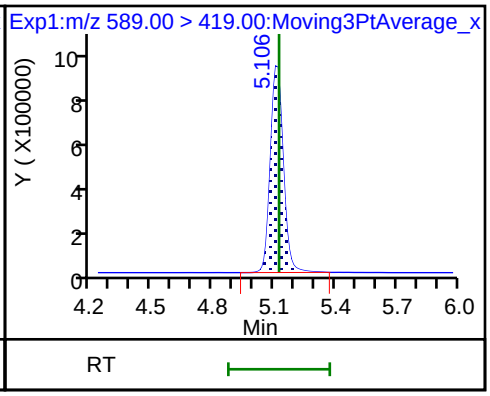
45 Perfluoroundecanoic acid (ND)



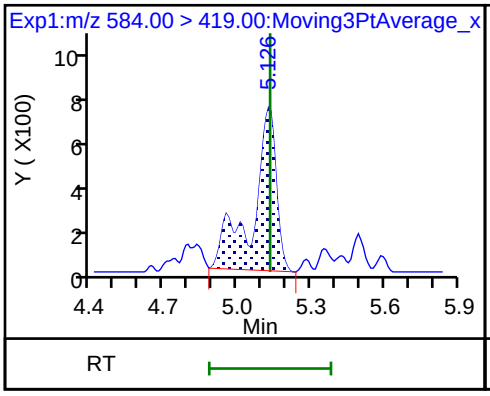
45 Perfluoroundecanoic acid (ND)



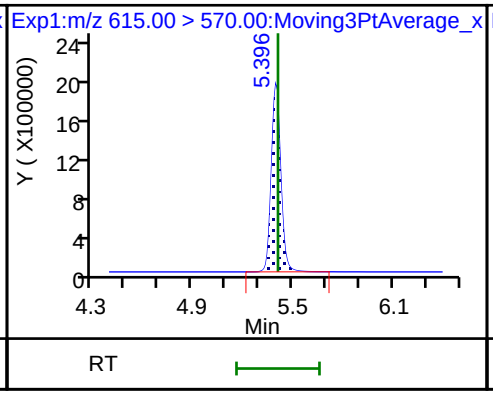
D 46 d5-NEtFOSAA



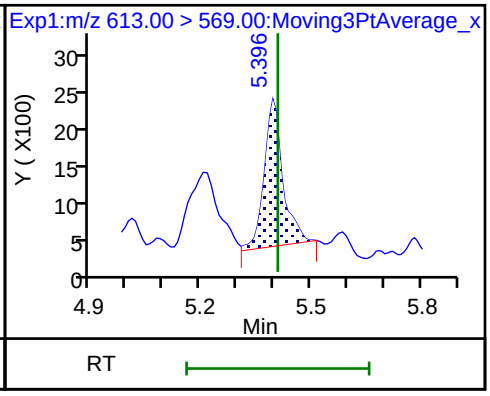
48 NEtFOSA



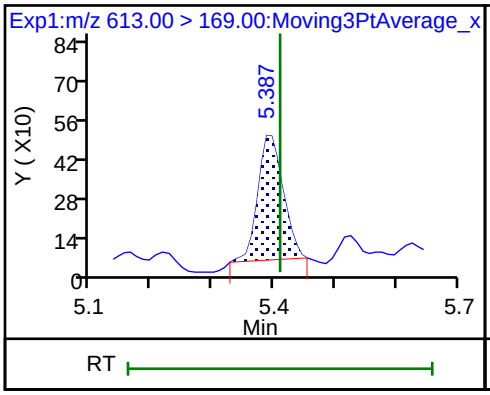
D 56 13C2 PFDoA



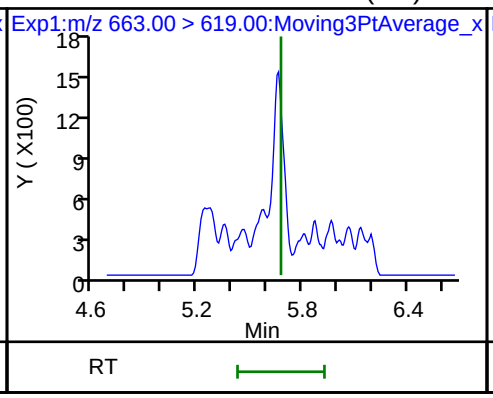
57 Perfluorododecanoic acid



57 Perfluorododecanoic acid



60 Perfluorotridecanoic acid (ND)



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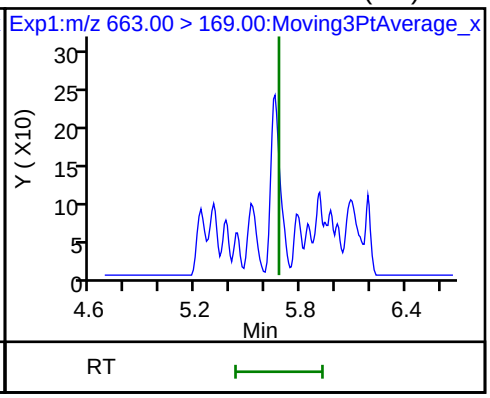
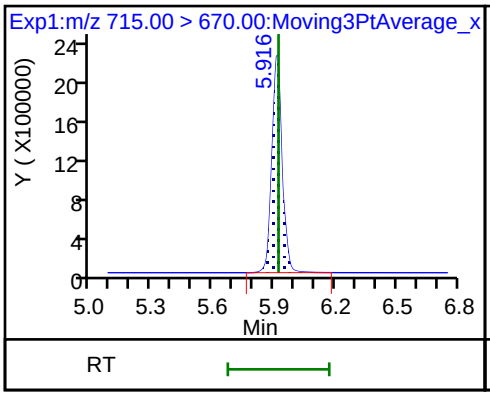
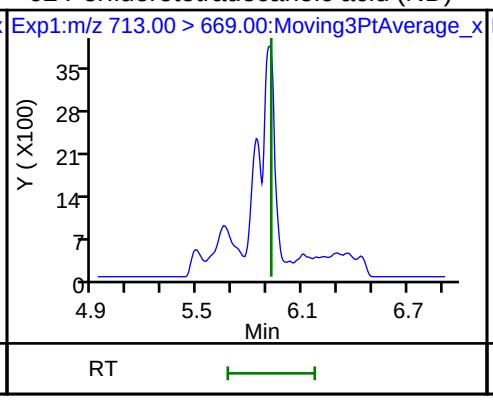


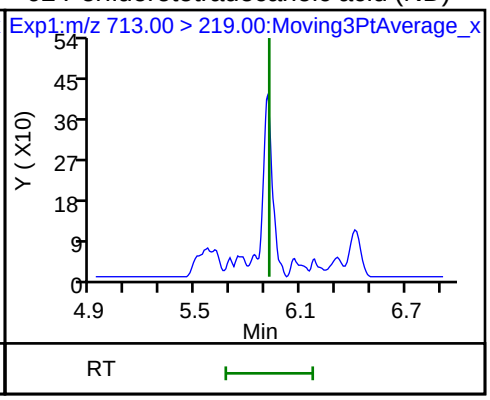
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

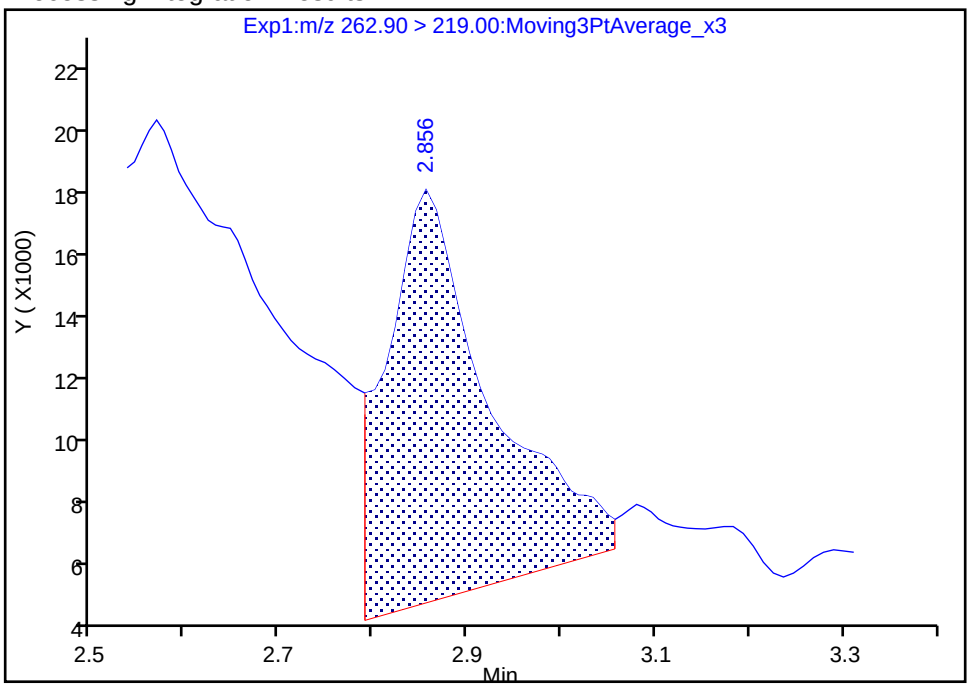
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

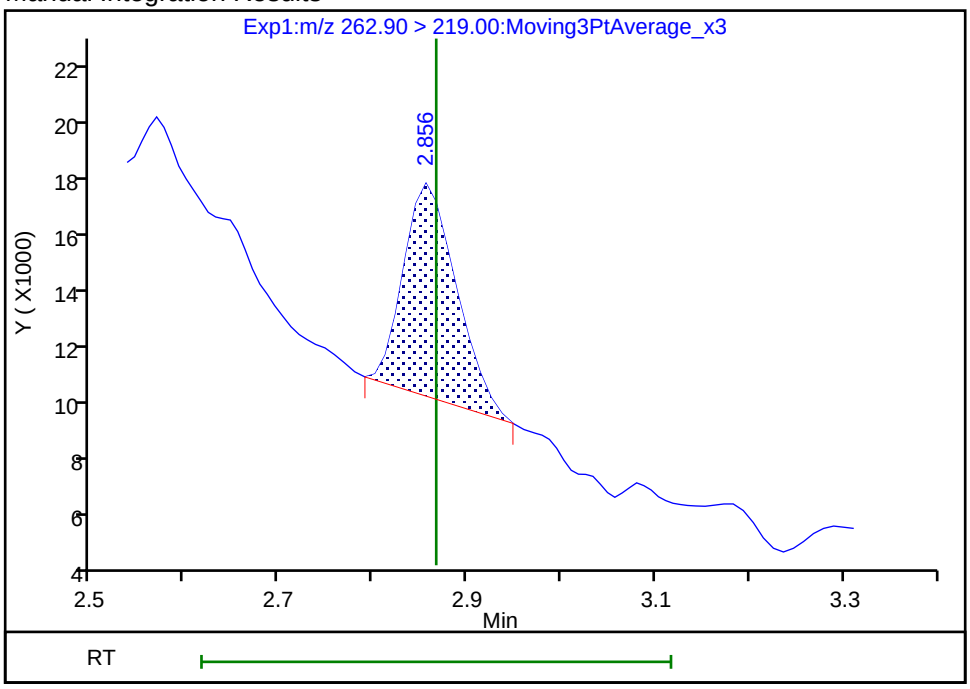
Processing Integration Results

RT: 2.86
Area: 102305
Amount: 0.053463
Amount Units: ng/ml



Manual Integration Results

RT: 2.86
Area: 28469
Amount: 0.014877
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:12

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

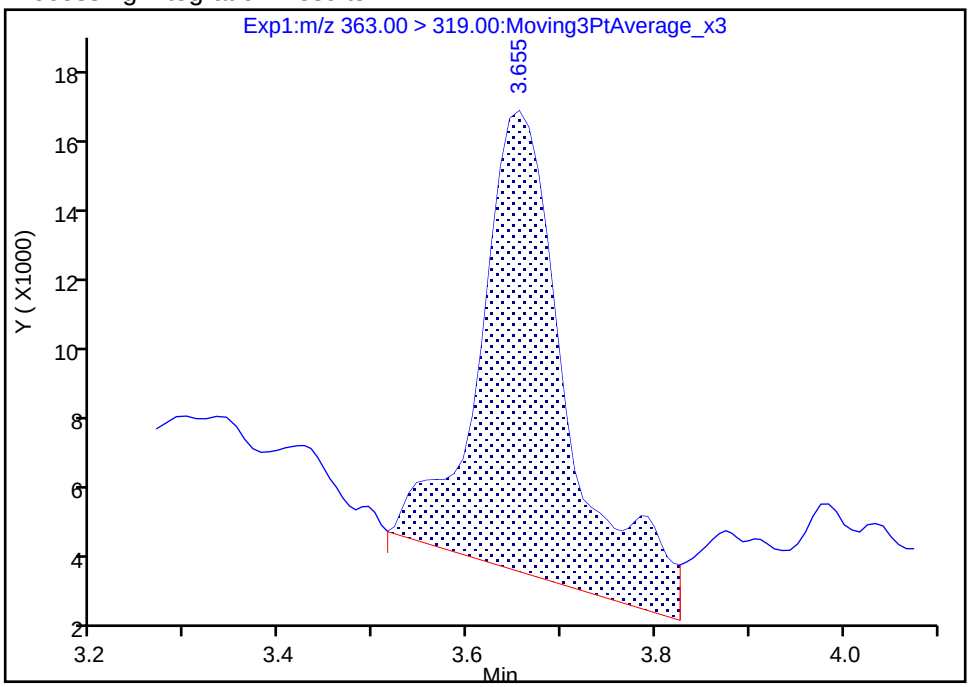
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

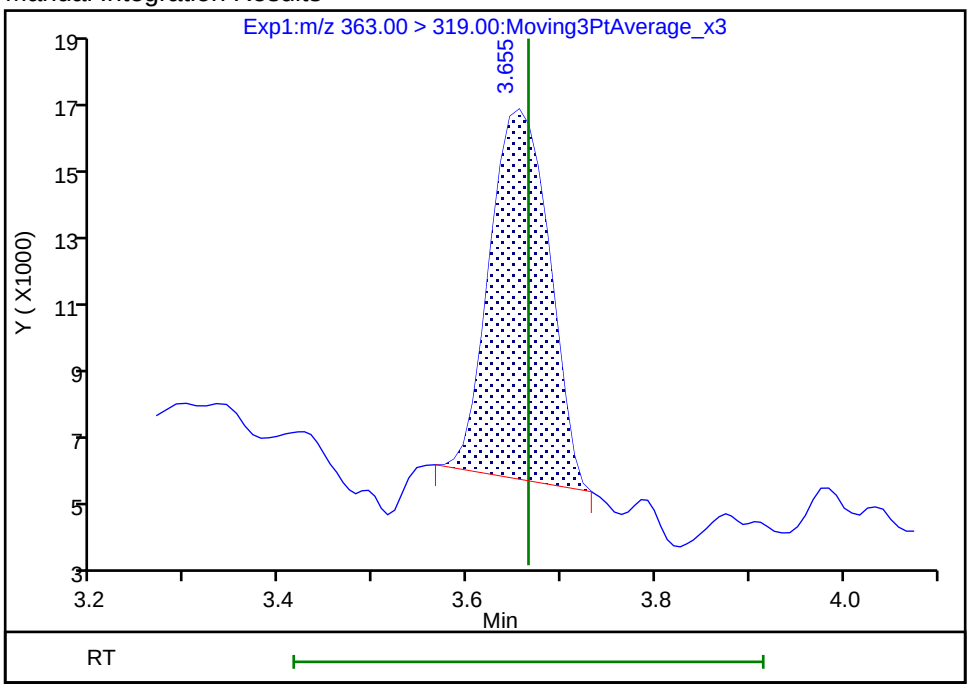
Processing Integration Results

RT: 3.65
Area: 82792
Amount: 0.032222
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 46547
Amount: 0.018116
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

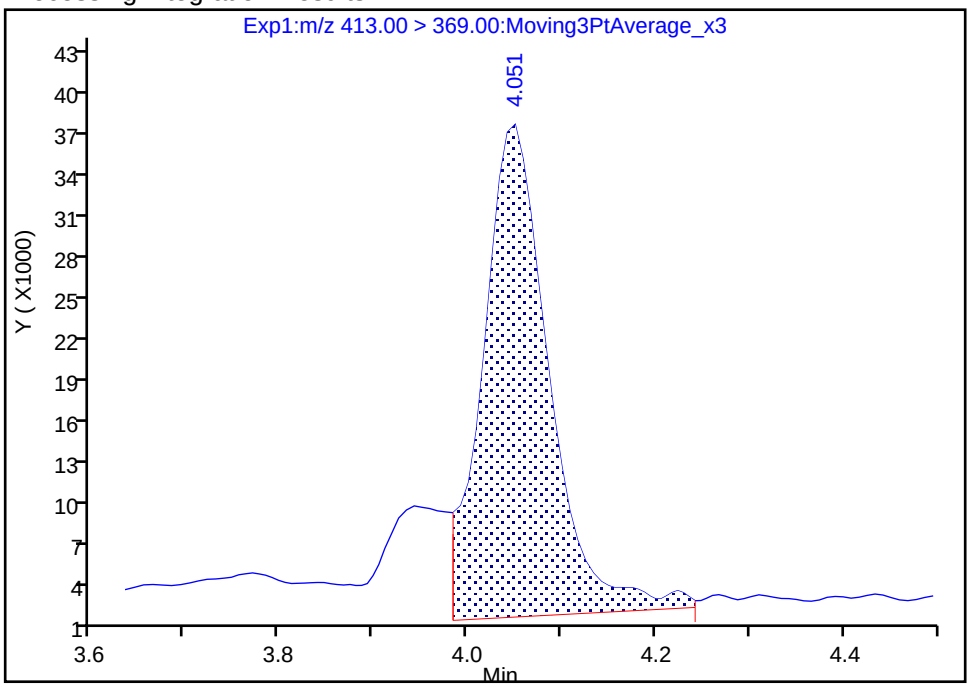
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

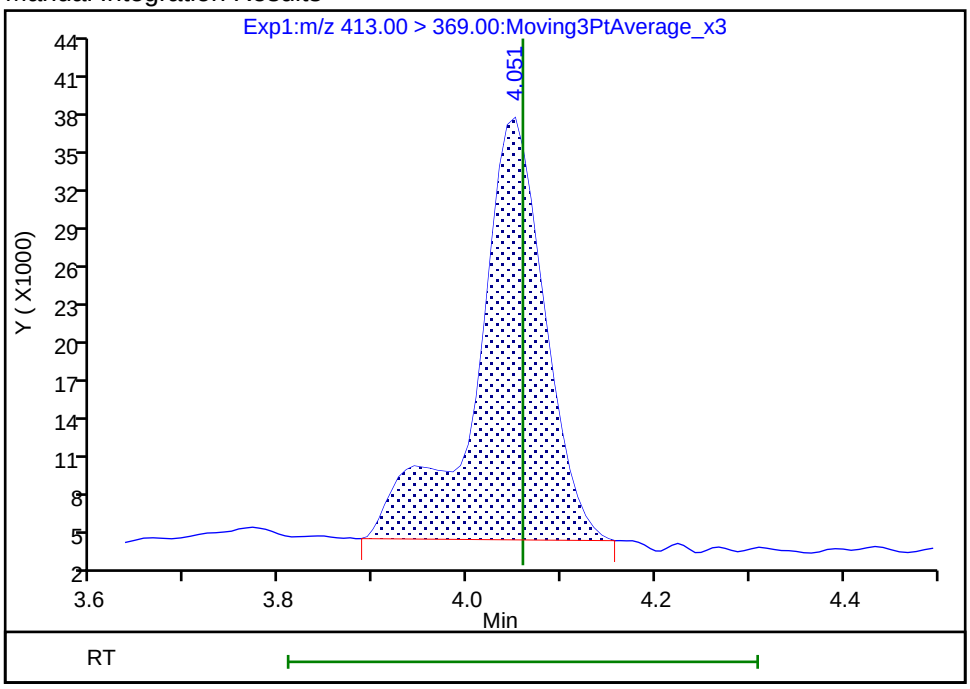
Processing Integration Results

RT: 4.05
Area: 174691
Amount: 0.059151
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 170597
Amount: 0.057765
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:47

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

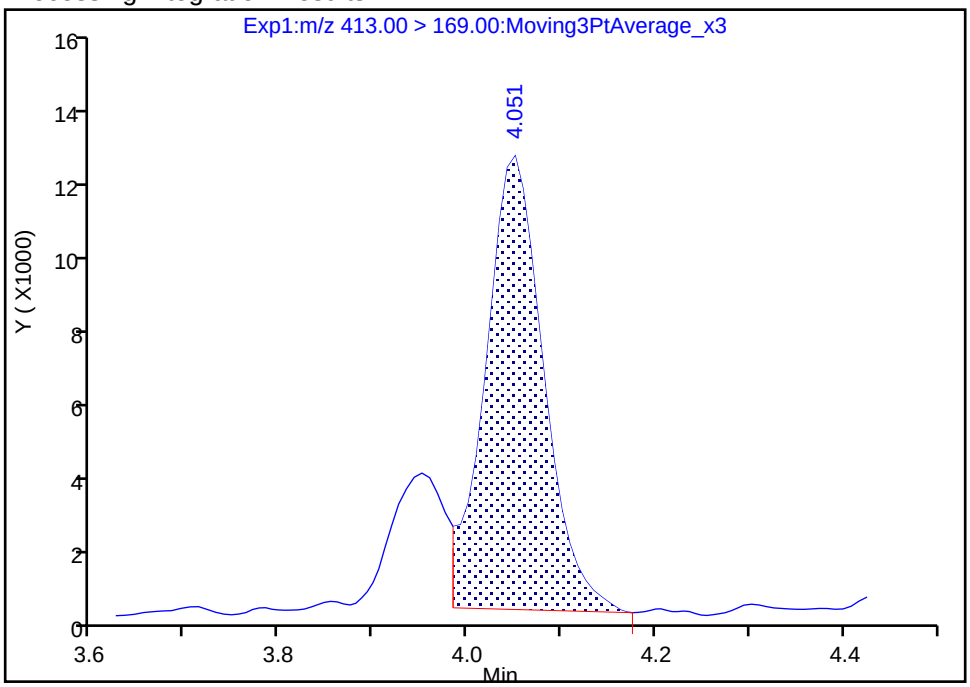
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

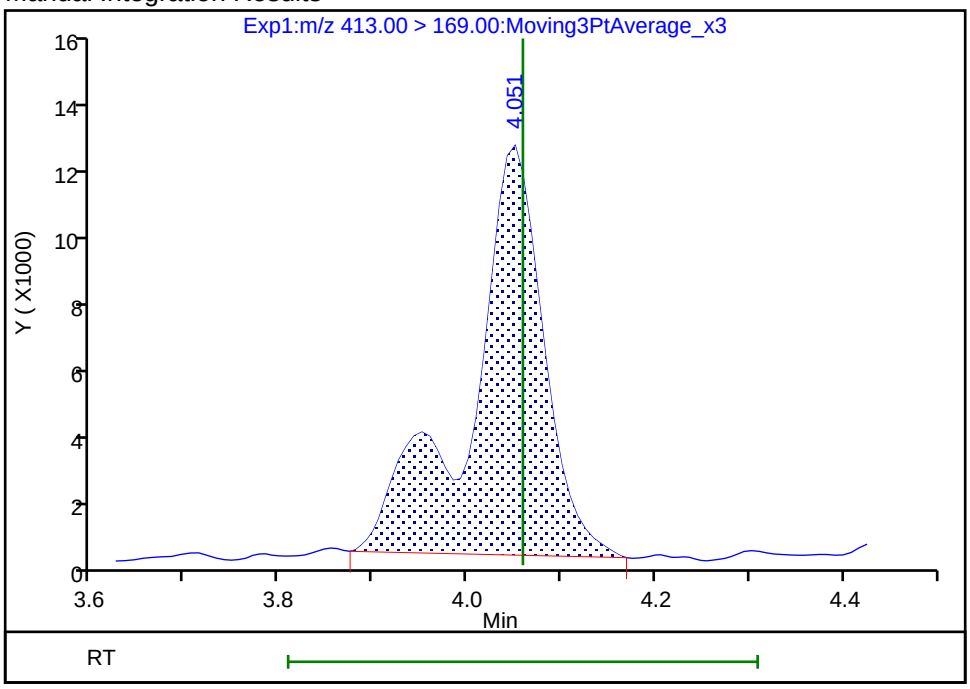
Processing Integration Results

RT: 4.05
Area: 53562
Amount: 0.059151
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 67579
Amount: 0.057765
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

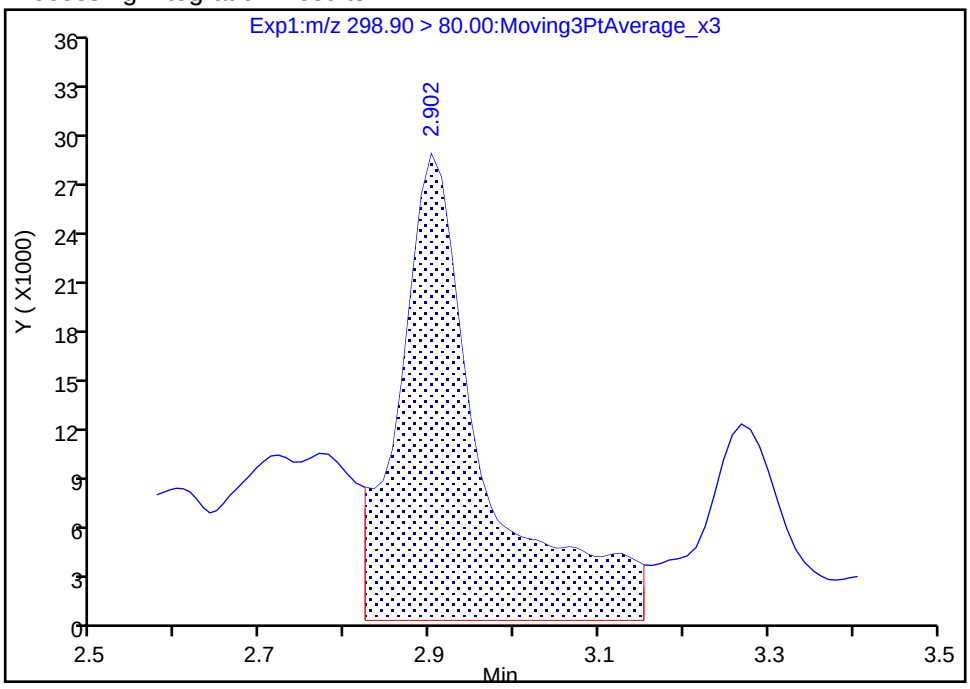
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

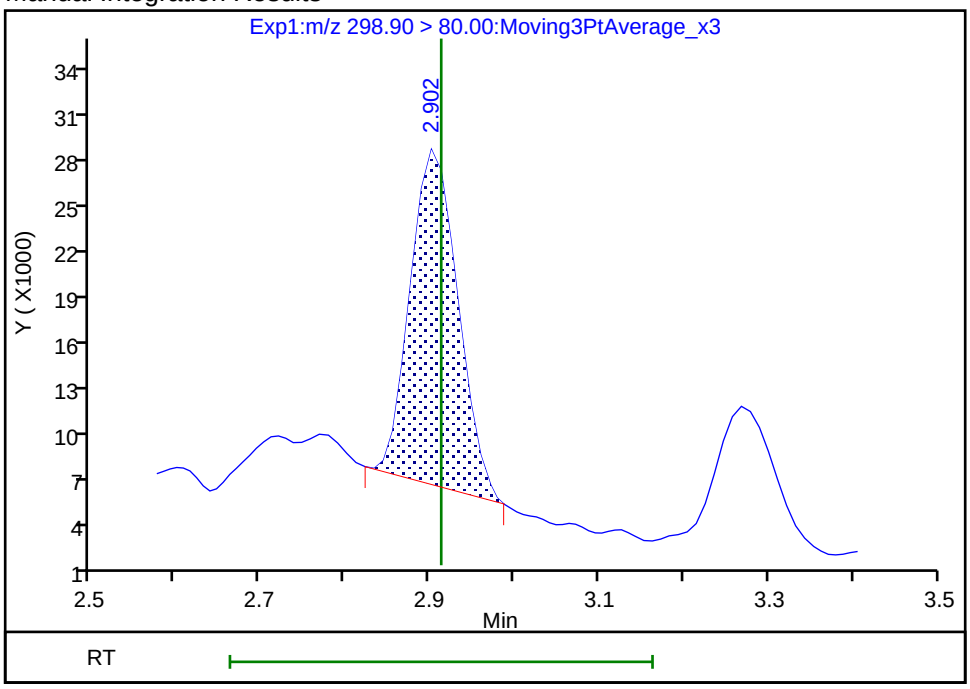
Processing Integration Results

RT: 2.90
Area: 194098
Amount: 0.063499
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 83313
Amount: 0.027256
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

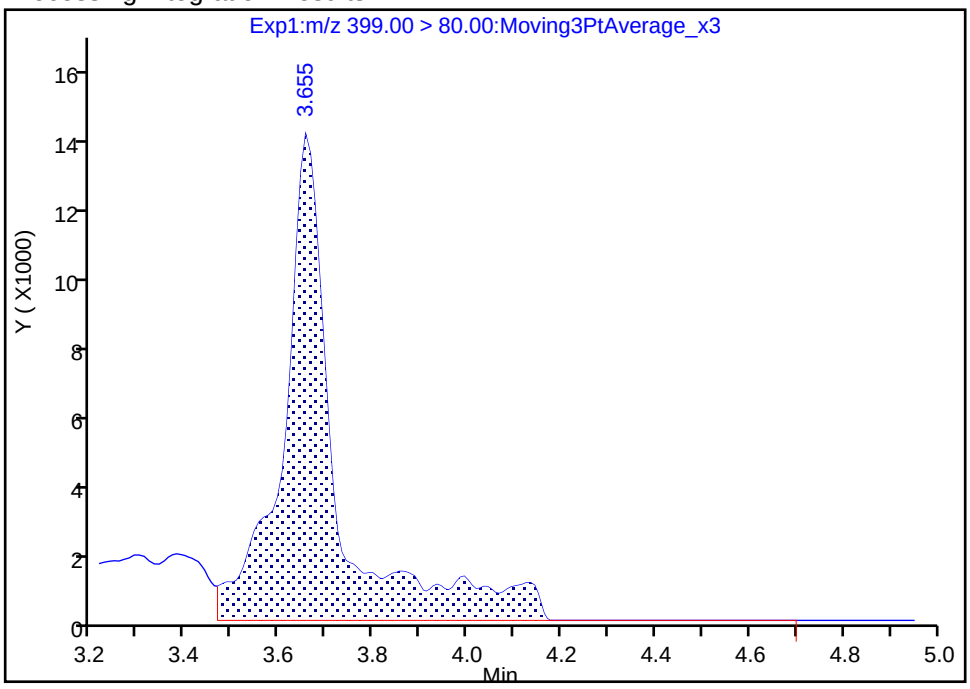
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

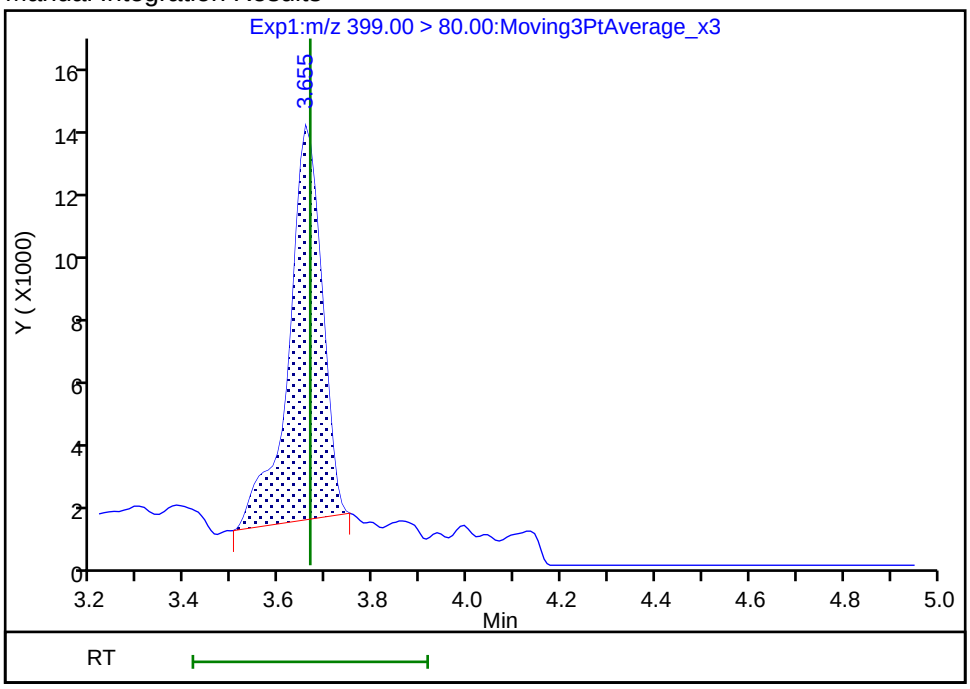
Processing Integration Results

RT: 3.65
Area: 107304
Amount: 0.046052
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 59259
Amount: 0.025432
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

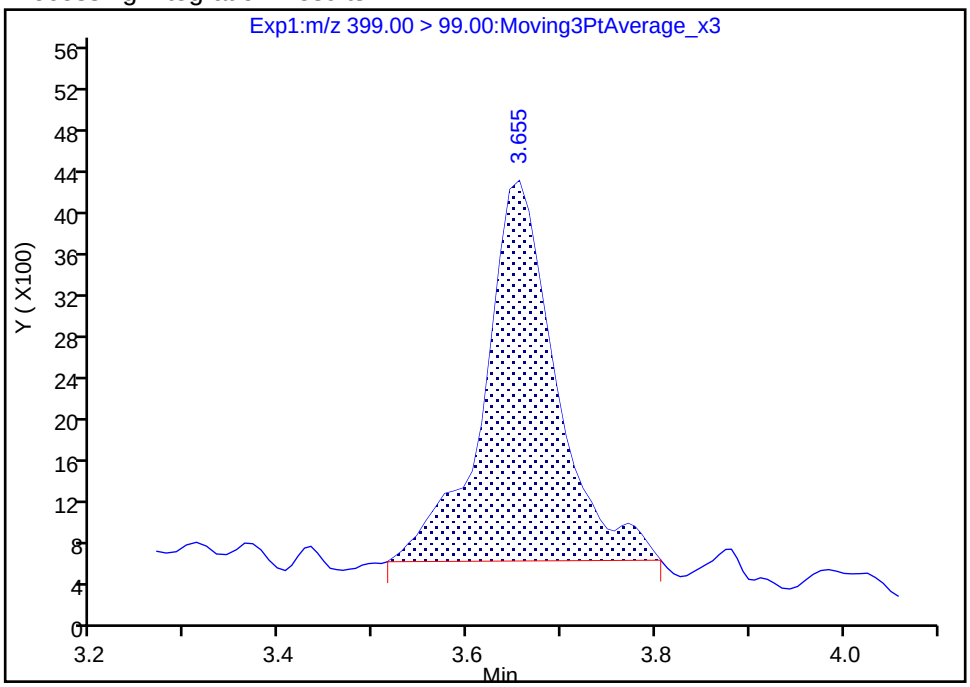
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

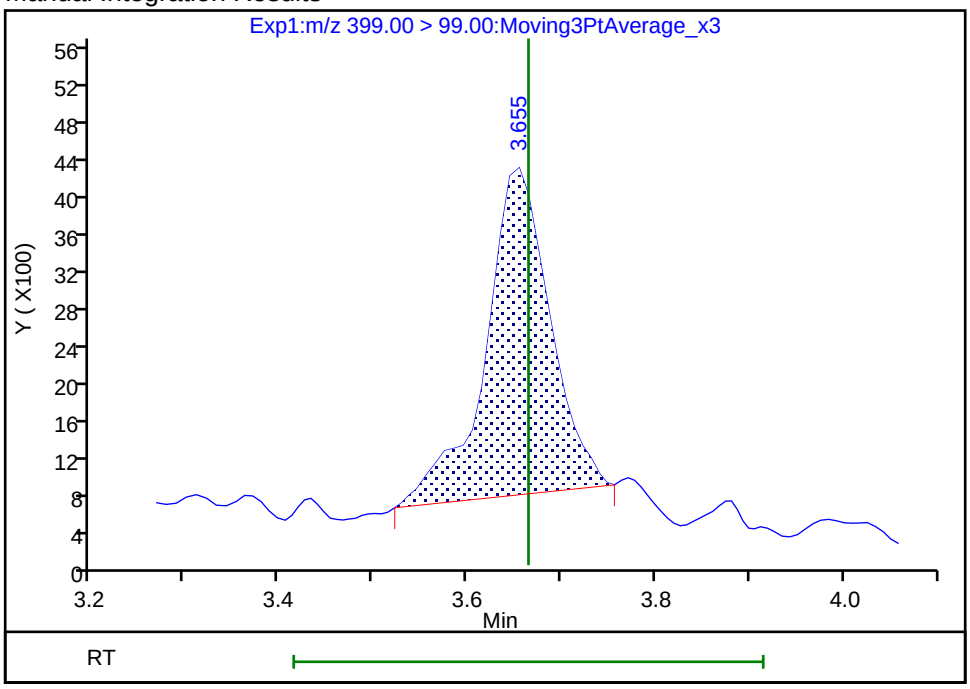
Processing Integration Results

RT: 3.65
Area: 19730
Amount: 0.046052
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 16714
Amount: 0.025432
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:47:38
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

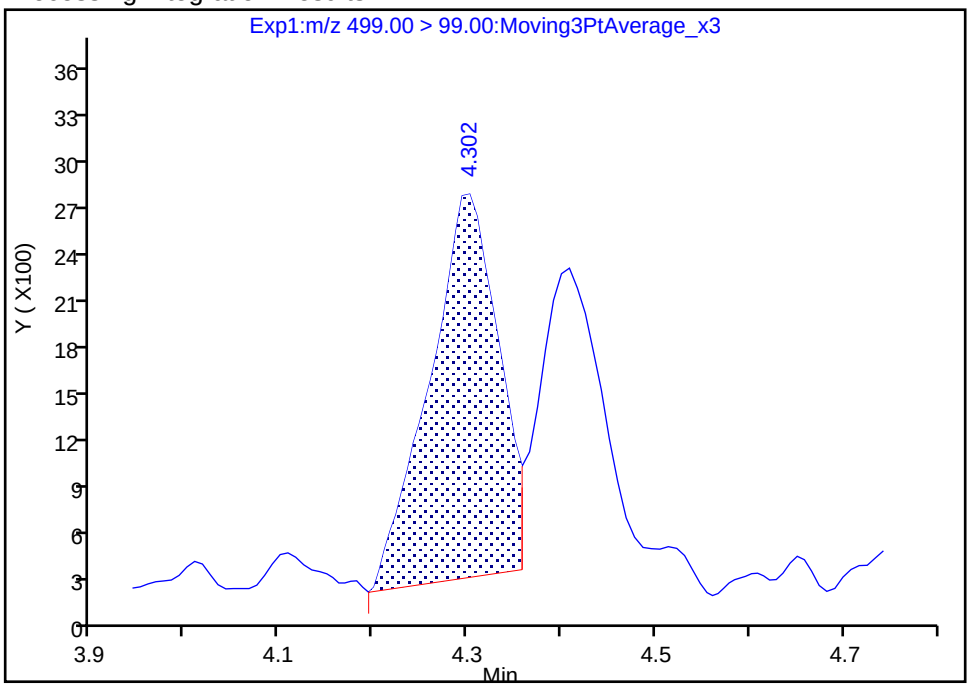
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

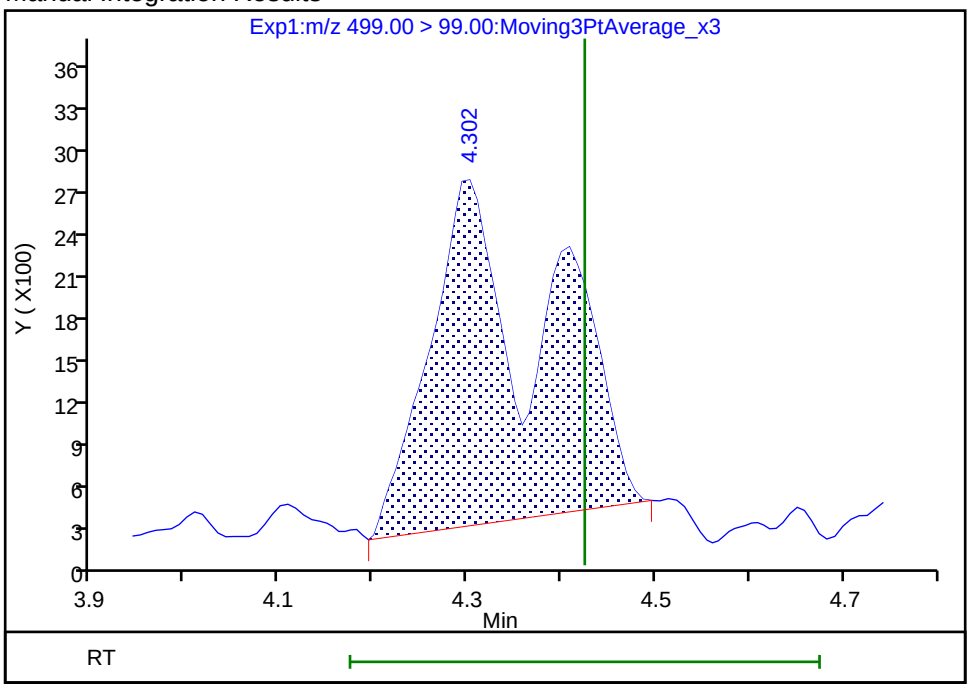
Processing Integration Results

RT: 4.30
Area: 12596
Amount: 0.130557
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 20839
Amount: 0.088667
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:48:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

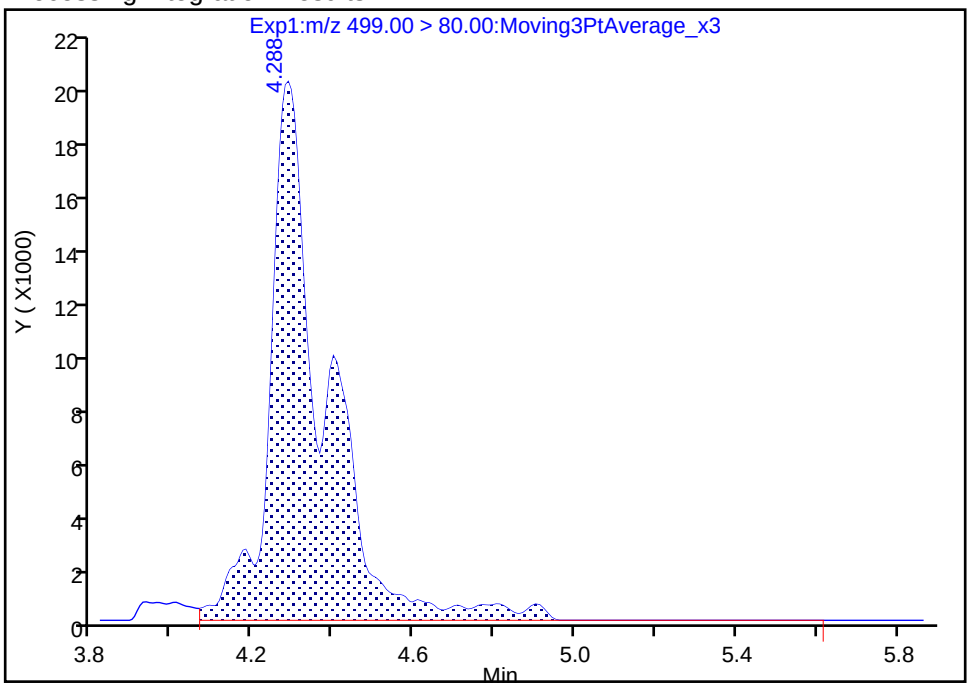
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_064.d				
Injection Date:	10-Sep-2020 18:54:55	Instrument ID:	A13		
Lims ID:	460-217659-D-3-A	Lab Sample ID:	320-217659-3		
Client ID:	MW-210				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	37	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

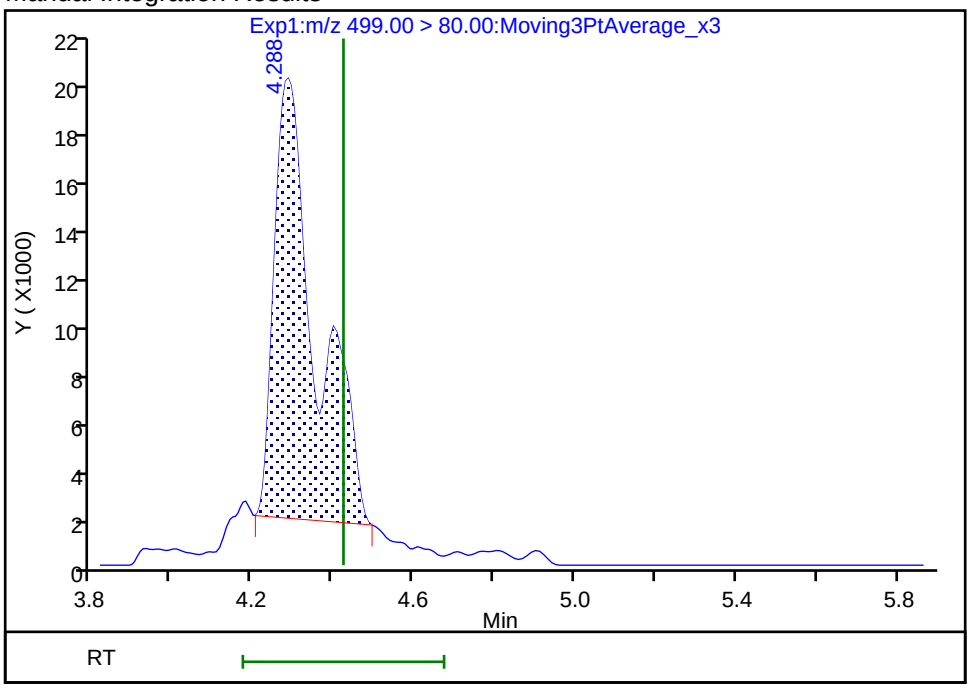
Processing Integration Results

RT: 4.29
Area: 191073
Amount: 0.130557
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 129766
Amount: 0.088667
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 09:48:11
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-211 Lab Sample ID: 460-217659-4

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_065.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 14:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250.7(mL) Date Analyzed: 09/10/2020 19:04

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.72	J B	1.99	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	1.99	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	1.99	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	1.99	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.87	J	1.99	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	1.99	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	1.99	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	1.99	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	1.99	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.30	U	1.99	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.41	J	1.99	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	1.99	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.56	J B	1.99	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	1.99	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.75	J	1.99	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	1.99	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.35	J	1.99	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.09	U	19.9	3.09
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89	U	19.9	1.89
27619-97-2	6:2 FTS	5.28	J	19.9	1.99
39108-34-4	8:2 FTS	1.99	U	19.9	1.99

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-211 Lab Sample ID: 460-217659-4

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_065.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 14:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250.7(mL) Date Analyzed: 09/10/2020 19:04

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	78		25-150
STL01893	13C5 PFPeA	84		25-150
STL00993	13C2 PFHxA	92		25-150
STL01892	13C4 PFHpA	93		25-150
STL00990	13C4 PFOA	87		25-150
STL00995	13C5 PFNA	93		25-150
STL00996	13C2 PFDA	88		25-150
STL00997	13C2 PFUnA	85		25-150
STL00998	13C2 PFDoA	72		25-150
STL02116	13C2 PFTeDA	76		25-150
STL02337	13C3 PFBS	99		25-150
STL00994	18O2 PFHxS	99		25-150
STL00991	13C4 PFOS	95		25-150
STL01056	13C8 FOSA	79		25-150
STL02118	d3-NMeFOSAA	76		25-150
STL02117	d5-NEtFOSAA	87		25-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	110		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d
Lims ID: 460-217659-D-4-A
Client ID: MW-211
Sample Type: Client
Inject. Date: 10-Sep-2020 19:04:21 ALS Bottle#: 38 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-4-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:14:11 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 10:14:11
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.470	2.475	-0.005	0.610	6966241	1.96		78.4	8753	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.470	2.482	-0.012	1.000	37255	0.0180			5.1	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.861	2.867	-0.006	0.706	5849683	2.11		84.5	4318	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.861	2.867	-0.006	1.000	25689	0.0107			1.0	M
D 14 13C3 PFBS										
301.90 > 80.00	2.907	2.913	-0.006	0.718	8019197	2.31		99.2	1318	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.907	2.913	-0.006	1.000	13904	0.004123	Target=2.29		1.1	M
298.90 > 99.00	2.907	2.913	-0.006	1.000	8157		1.70(1.15-3.44)		1.6	
D 9 13C2 PFHxA										
315.00 > 270.00	3.256	3.258	-0.002	0.804	7892744	2.31		92.3	6555	
D 17 18O2 PFHxS										
403.00 > 84.00	3.663	3.665	-0.002	0.904	5338808	2.34		99.1	2643	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.653	3.665	-0.012	1.000	12900	0.004074	Target=3.87		0.7	M
363.00 > 169.00	3.663	3.665	-0.002	1.003	5058		2.55(1.93-5.80)		1.9	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.663	3.665	-0.002	1.000	34986	0.0139	Target=3.08		9.3	M
399.00 > 99.00	3.663	3.665	-0.002	1.000	11525		3.04(1.54-4.62)		4.4	
D 15 13C4 PFHpA										
367.00 > 322.00	3.653	3.665	-0.012	0.902	7831822	2.32		93.0	2621	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.025	4.042	-0.017	0.994	2421261	2.47		104	813	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
21 6:2 FTS										
427.00 > 407.00	4.025	4.042	-0.017	1.000	324513	0.1323			207	
D 24 13C4 PFOA										
417.00 > 372.00	4.050	4.059	-0.009	1.000	8966717	2.18		87.1	9902	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.050	4.059	-0.009	1.000	79594	0.0217	Target=2.99		6.5	M
413.00 > 169.00	4.050	4.059	-0.009	1.000	36277		2.19(1.50-4.49)		23.3	M
* 25 13C2 PFOA										
415.00 > 370.00	4.050	4.059	-0.009		10452536	2.50			5005	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.295	4.425	-0.130	0.974	70445	0.0440	Target=4.13		18.6	M
499.00 > 99.00	4.426	4.425	0.001	1.004	11610		6.07(2.06-6.19)		5.6	M
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.089	3688652	2.27		94.9	1330	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.093	8821164	2.32		92.7	8324	
D 34 13C8 FOSA										
506.00 > 78.00	4.735	4.740	-0.005	1.169	4621718	1.98		79.2	5431	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.735	4.740	-0.005	1.000	15192	0.008758			65.4	
D 37 13C2 PFDA										
515.00 > 470.00	4.788	4.793	-0.005	1.182	10194551	2.21		88.5	6365	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.788	4.802	-0.014	1.182	3416730	2.63		110	2539	
39 8:2 FTS										
527.00 > 507.00	4.770	4.802	-0.032	0.996	5336	0.001513			14.4	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.945	4.959	-0.014	1.221	4491299	1.89		75.6	3643	
41 NMeFOSAA										
570.00 > 419.00	4.964	4.959	0.005	1.004	11046	0.007633			6.0	
D 44 13C2 PFUnA										
565.00 > 520.00	5.109	5.113	-0.004	1.261	9534168	2.12		84.6	11122	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.109	5.123	-0.014	1.261	5011954	2.18		87.2	3216	
48 NEtFOSA										
584.00 > 419.00	5.119	5.132	-0.013	1.002	17823	0.0115			92.1	
D 56 13C2 PFDoA										
615.00 > 570.00	5.398	5.409	-0.011	1.333	8719186	1.80		71.9	6338	
57 Perfluorododecanoic acid										M
613.00 > 569.00	5.398	5.409	-0.011	1.000	24425	0.007677	Target=9.00		13.4	
613.00 > 169.00	5.381	5.409	-0.028	0.997	2624		9.31(4.50-13.49)		10.2	M
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.664	5.676	-0.012	1.049	25862	0.007911	Target=6.96		23.9	
663.00 > 169.00	5.672	5.676	-0.004	1.051	3276		7.89(3.48-10.45)		21.8	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.912	5.920	-0.008	1.460	9136863	1.91		76.3	6420	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.907	5.920	-0.014	0.999	37141	0.0103	Target=10.31		18.5	
713.00 > 219.00	5.907	5.920	-0.014	0.999	4156		8.94(5.16-15.47)		38.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 10:14:11 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d

Injection Date: 10-Sep-2020 19:04:21 Instrument ID: A13

Lims ID: 460-217659-D-4-A Lab Sample ID: 320-217659-4

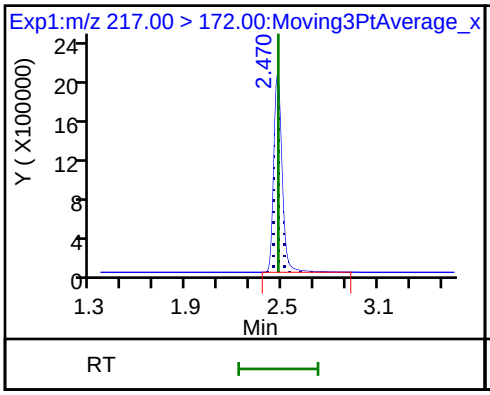
Client ID: MW-211

Operator ID: SACINSTLCMS01 ALS Bottle#: 38 Worklist Smp#: 8

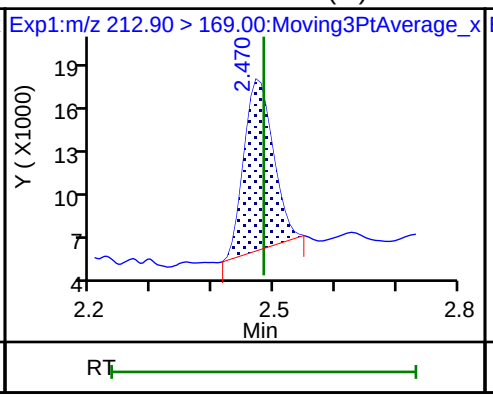
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

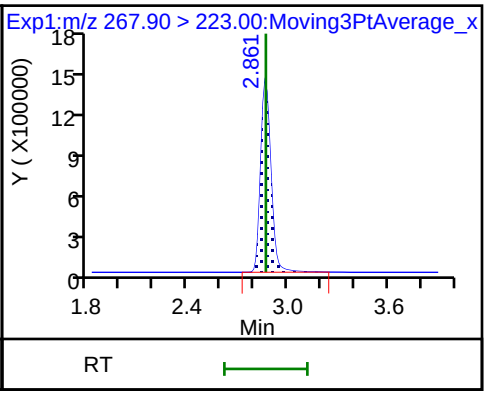
D 1 13C4 PFBA



2 Perfluorobutanoic acid (M)



D 4 13C5 PFPeA



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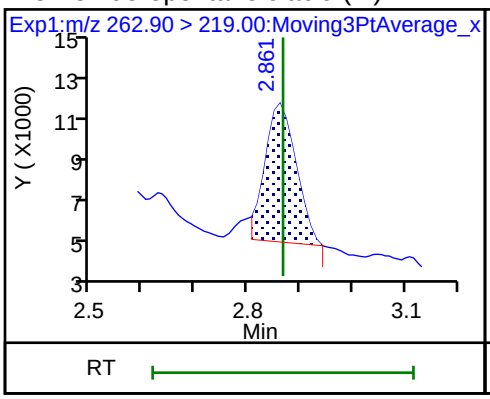
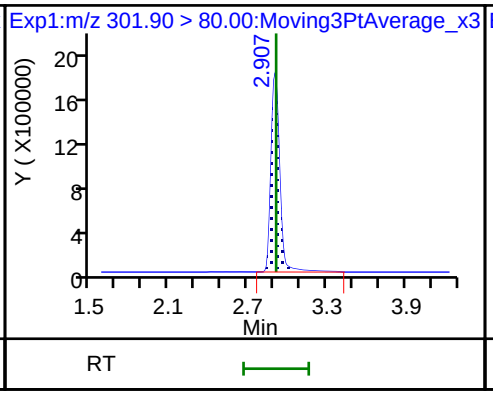


D 14 13C3 PFBS



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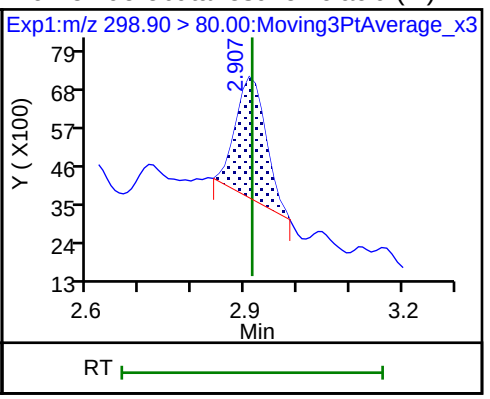

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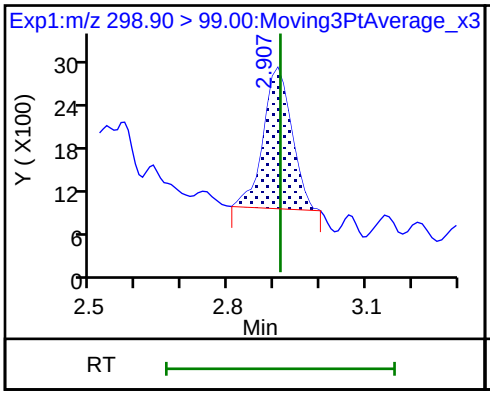

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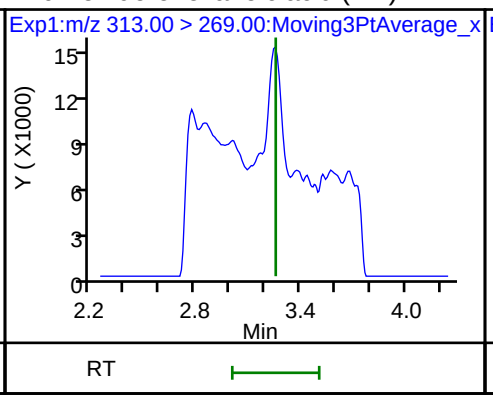
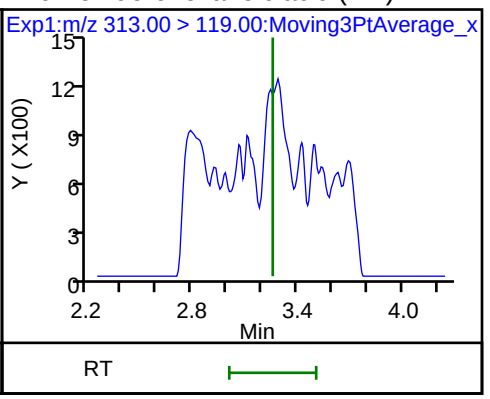


10 Perfluorohexanoic acid (ND)



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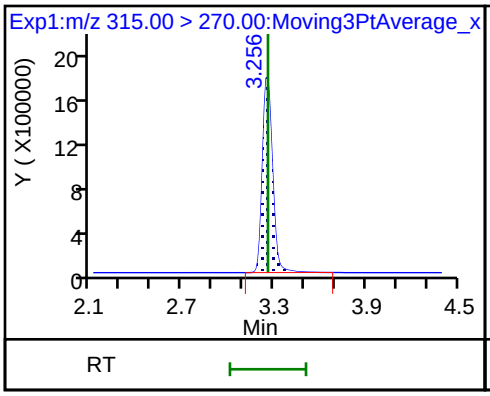
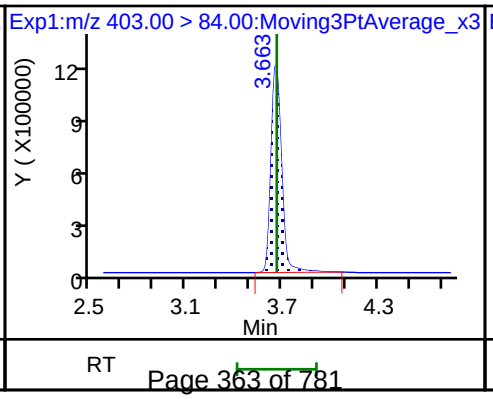


D 17 18O2 PFHxS



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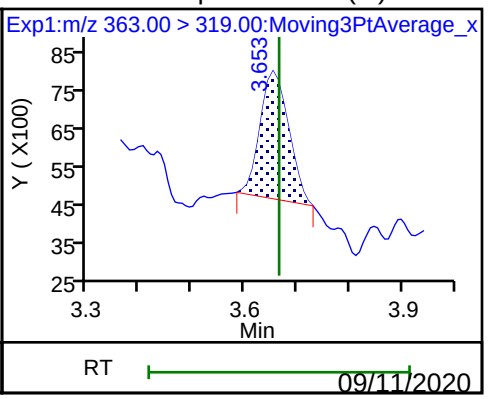
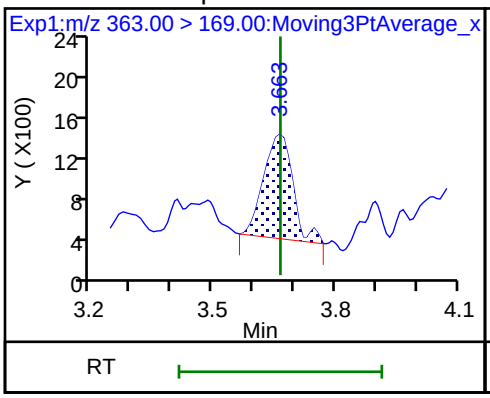
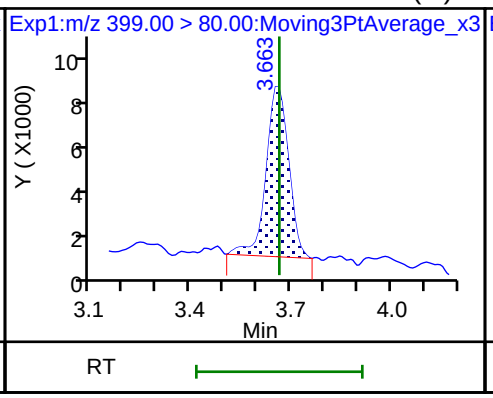


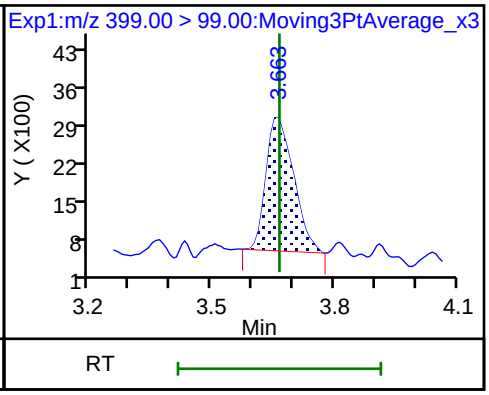
16 Perfluoroheptanoic acid



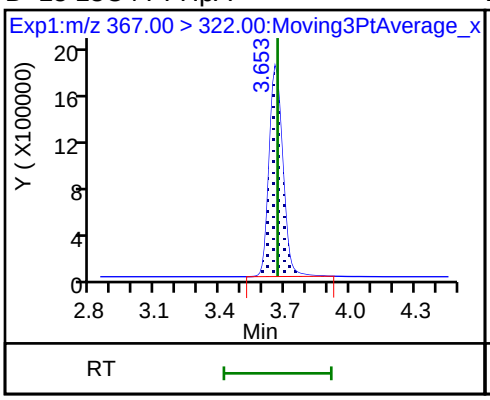
18 Perfluorohexanesulfonic acid (M)



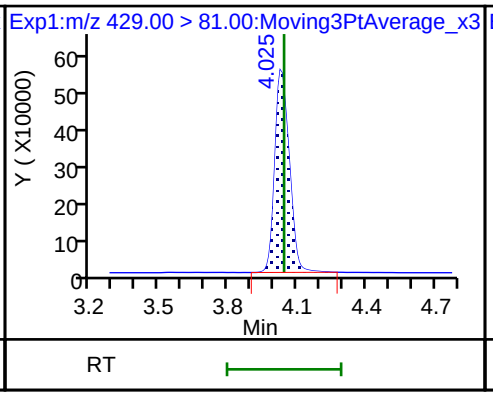
18 Perfluorohexanesulfonic acid



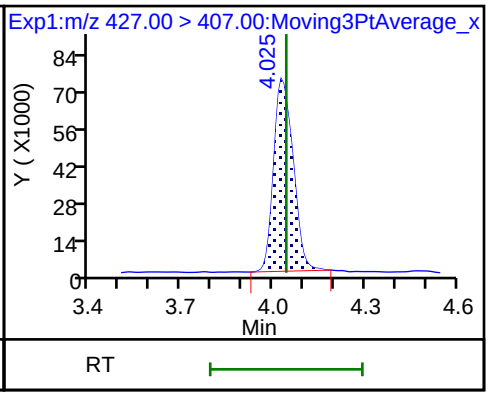
D 15 13C4 PFHpA



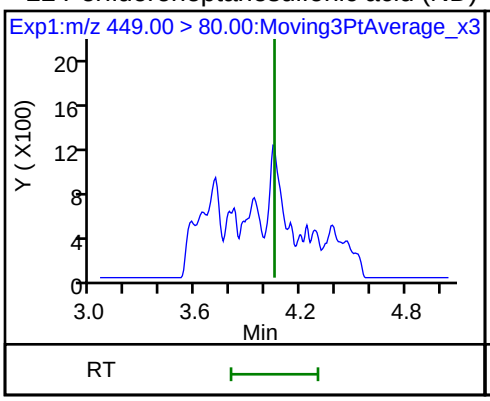
D 20 M2-6:2 FTS



21 6:2 FTS



22 Perfluoroheptanesulfonic acid (ND)



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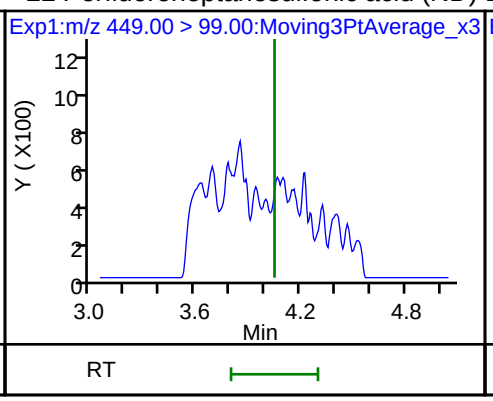
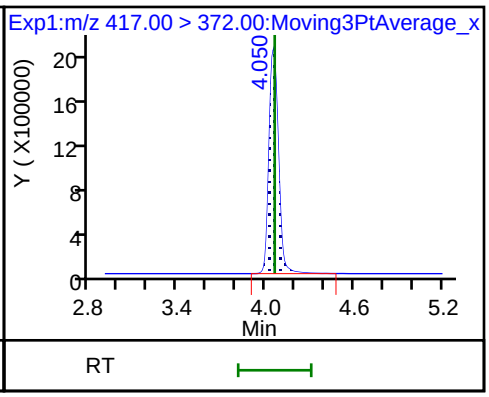
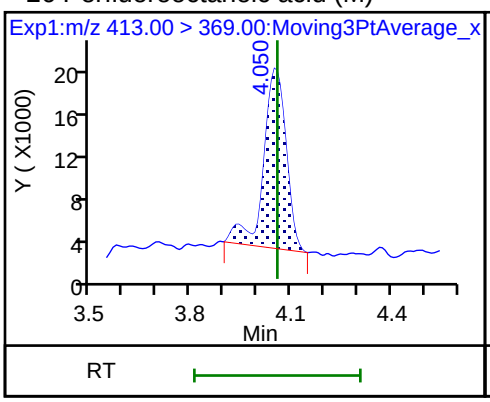


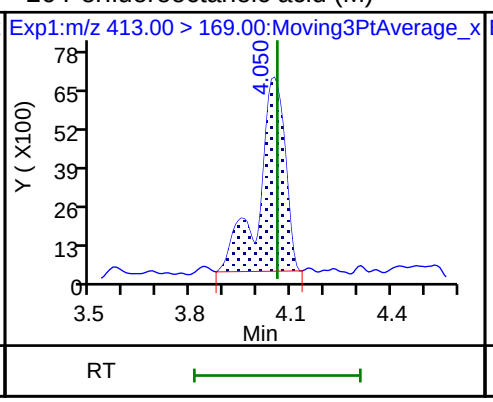
D 24 13C4 PFOA



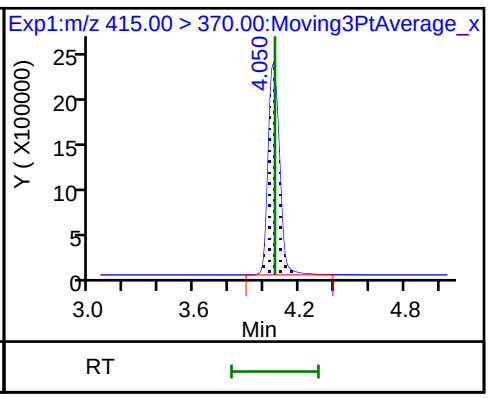
26 Perfluorooctanoic acid (M)



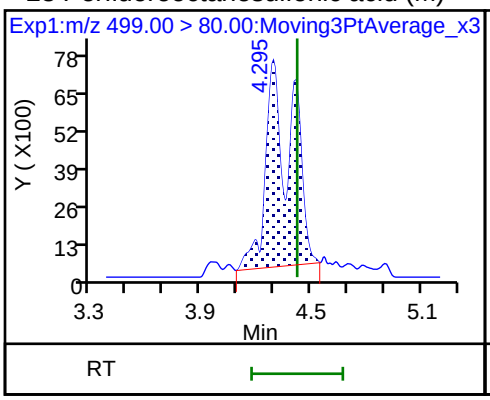
26 Perfluorooctanoic acid (M)



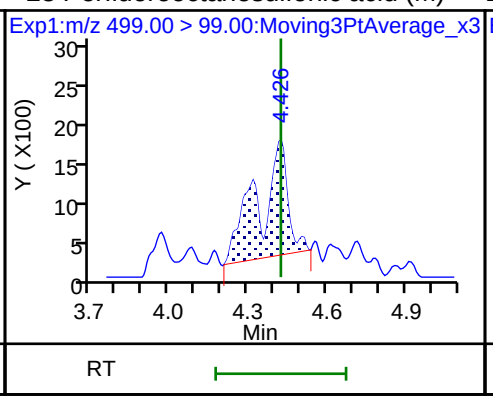
* 25 13C2 PFOA



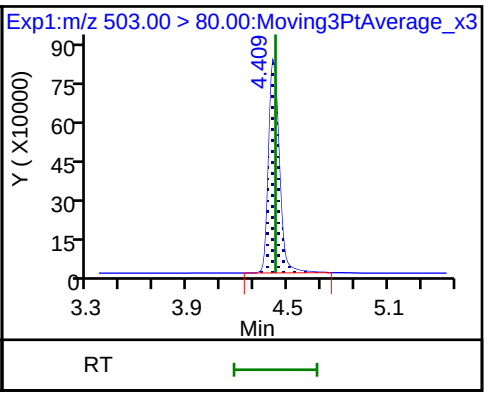
28 Perfluorooctanesulfonic acid (M)



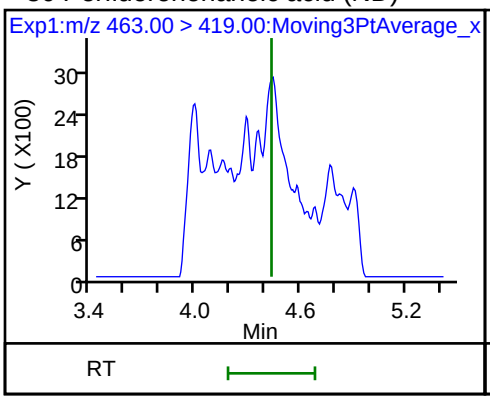
28 Perfluorooctanesulfonic acid (M)



D 29 13C4 PFOS



30 Perfluorononanoic acid (ND)



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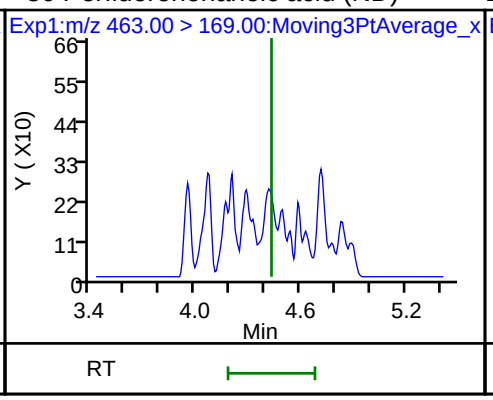

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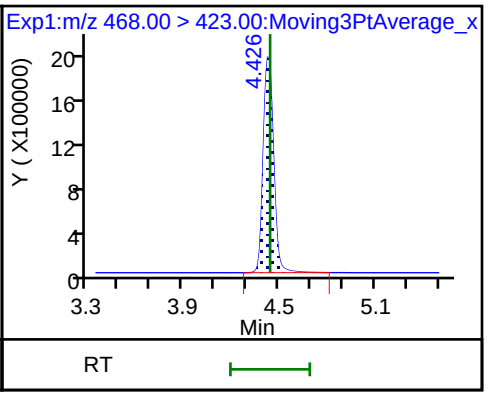
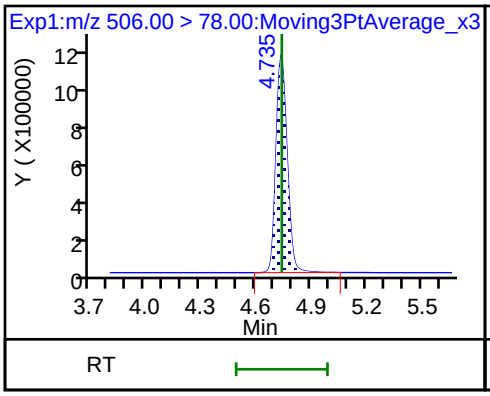
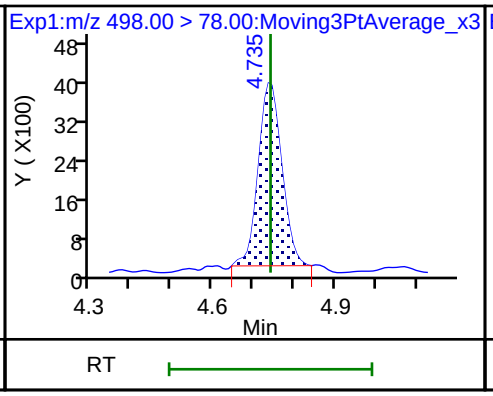


D 34 13C8 FOSA



33 Perfluorooctanesulfonamide



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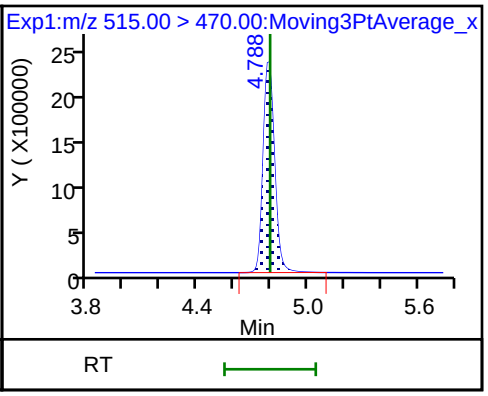
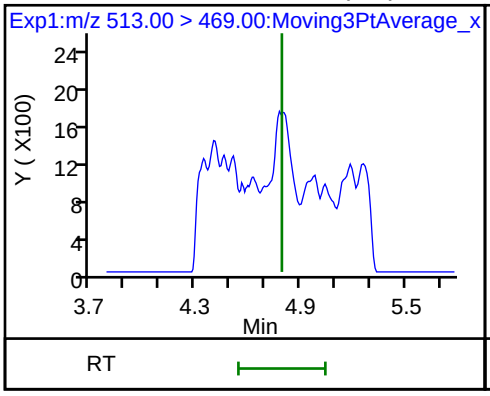
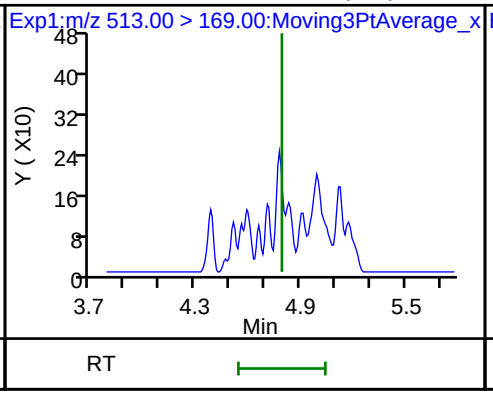


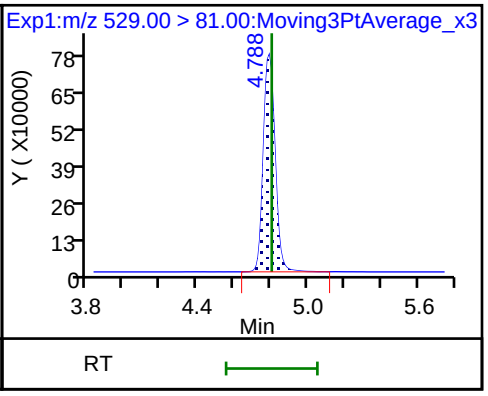
36 Perfluorodecanoic acid (ND)



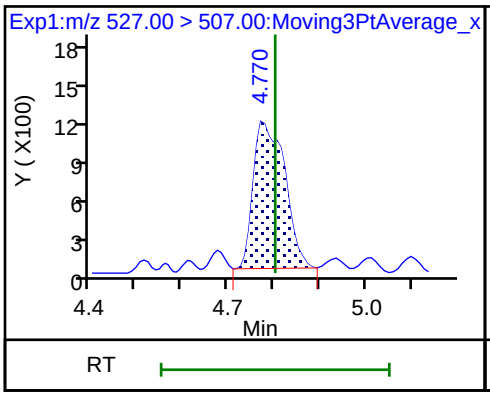
36 Perfluorodecanoic acid (ND)



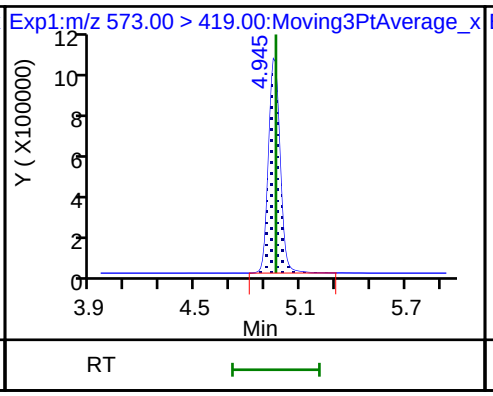
D 38 M2-8:2 FTS



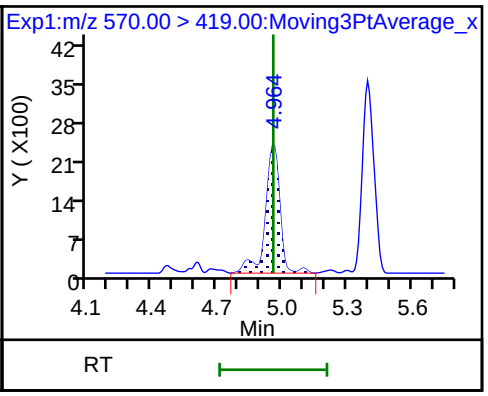
39 8:2 FTS



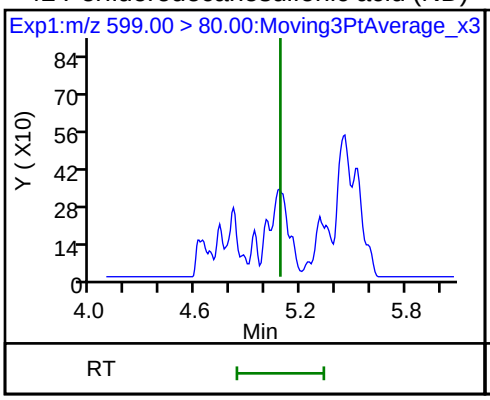
D 40 d3-NMeFOSAA



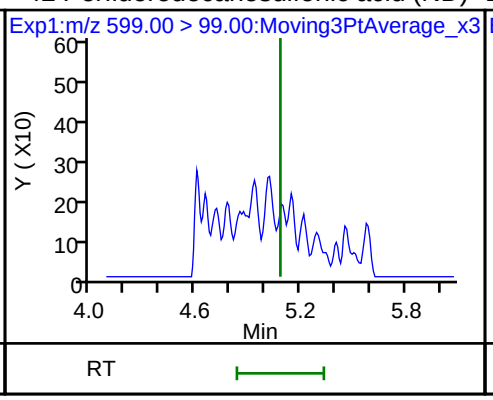
41 NMeFOSAA



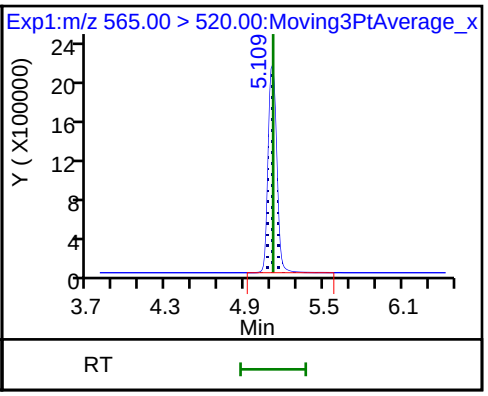
42 Perfluorodecanesulfonic acid (ND)



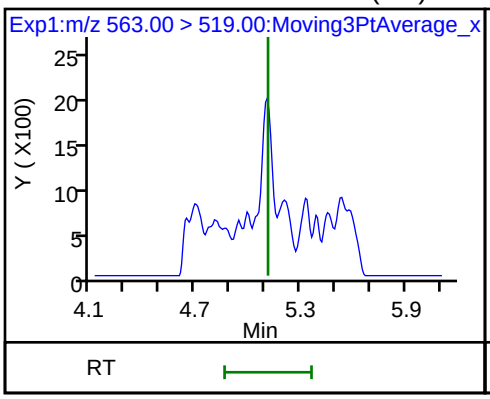
42 Perfluorodecanesulfonic acid (ND)



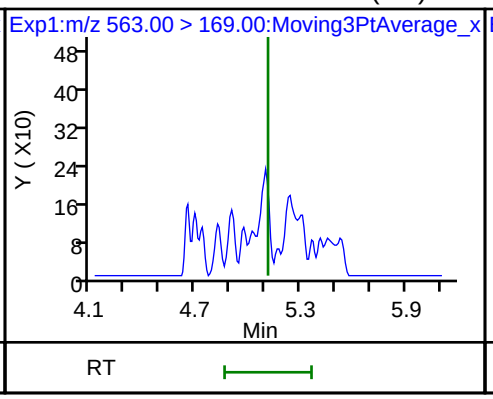
D 44 13C2 PFUnA



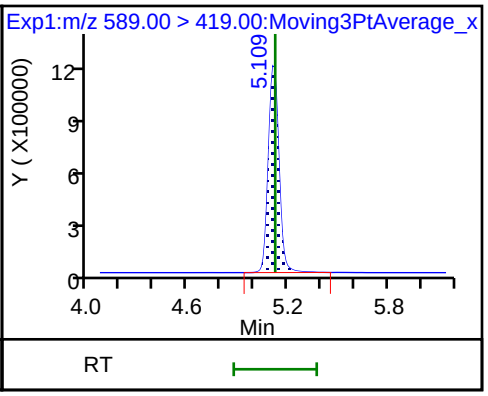
45 Perfluoroundecanoic acid (ND)



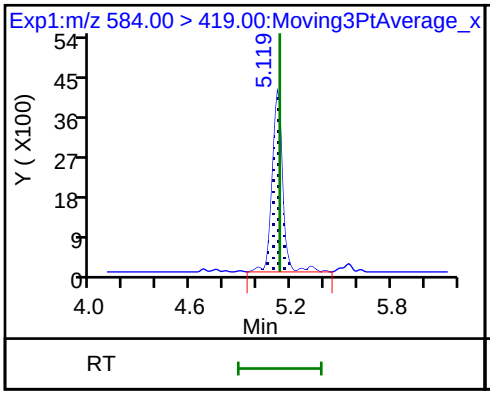
45 Perfluoroundecanoic acid (ND)



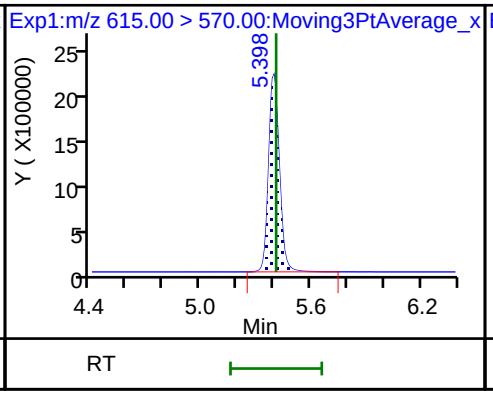
D 46 d5-NEtFOSAA



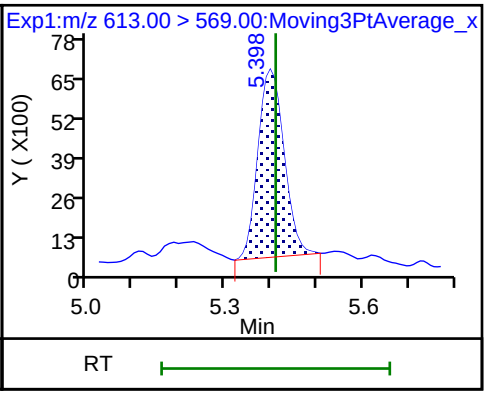
48 NEtFOSA



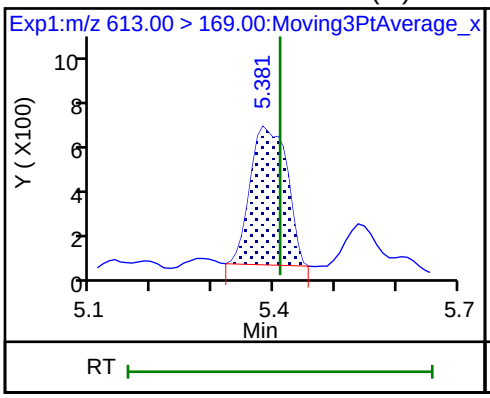
D 56 13C2 PFDoA



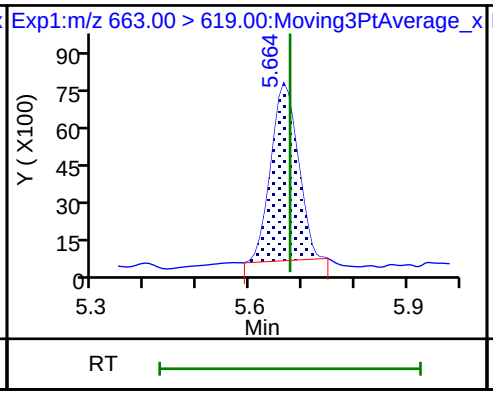
57 Perfluorododecanoic acid



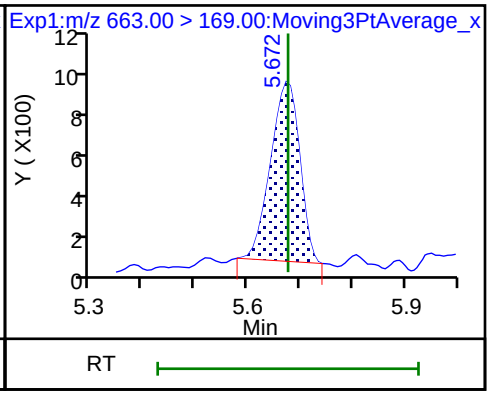
57 Perfluorododecanoic acid (M)



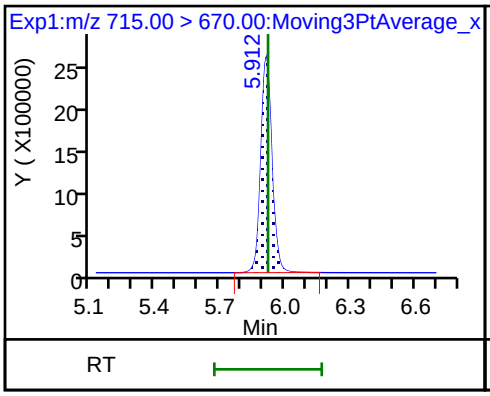
60 Perfluorotridecanoic acid



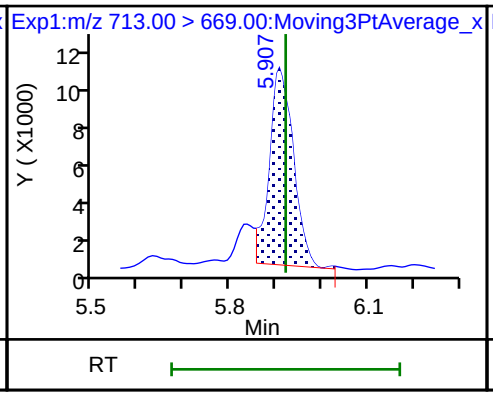
60 Perfluorotridecanoic acid



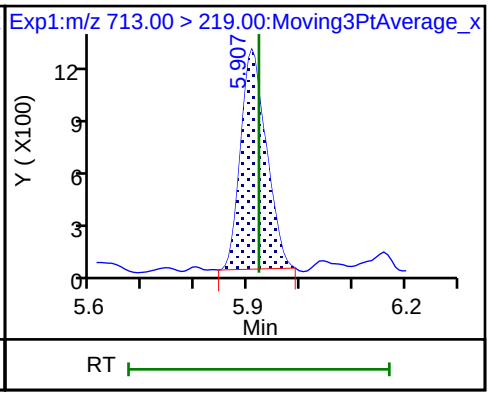
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid



62 Perfluorotetradecanoic acid



Eurofins TestAmerica, Sacramento

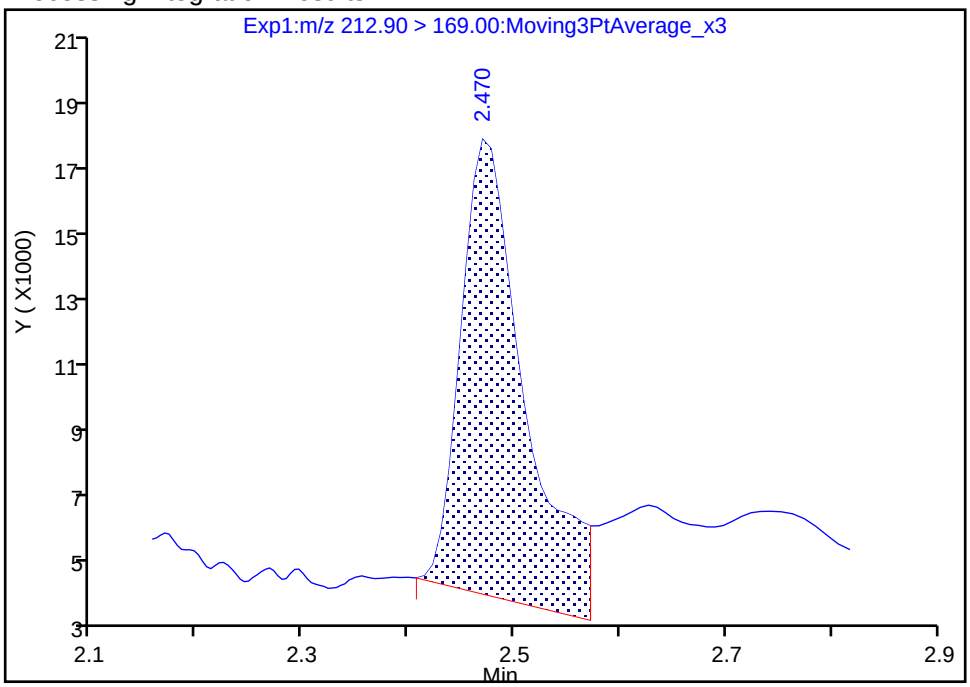
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

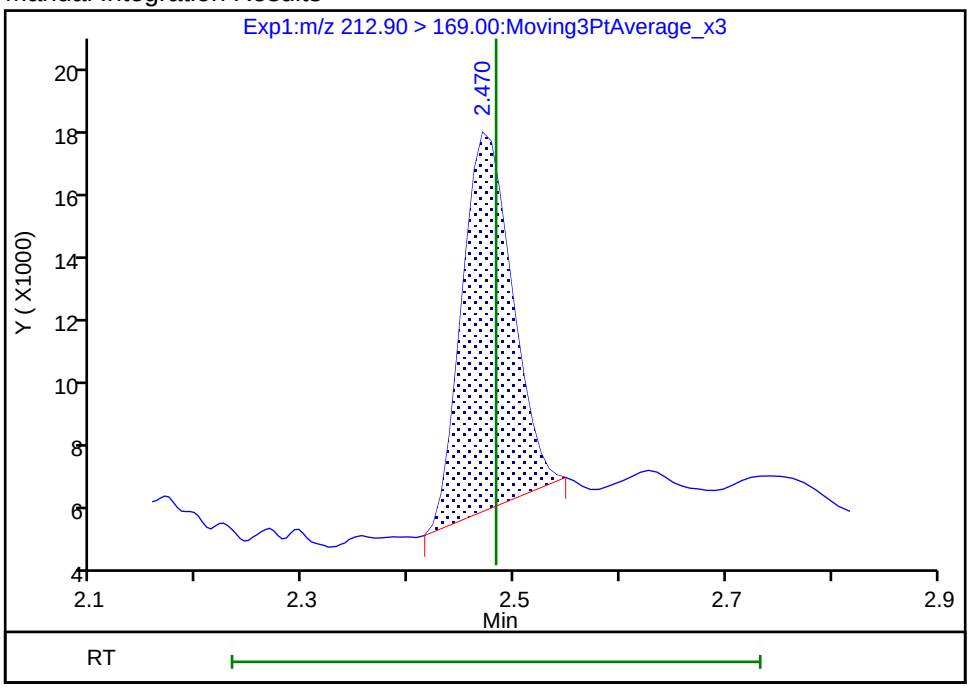
Processing Integration Results

RT: 2.47
Area: 52766
Amount: 0.025478
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 37255
Amount: 0.017988
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:12:52
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

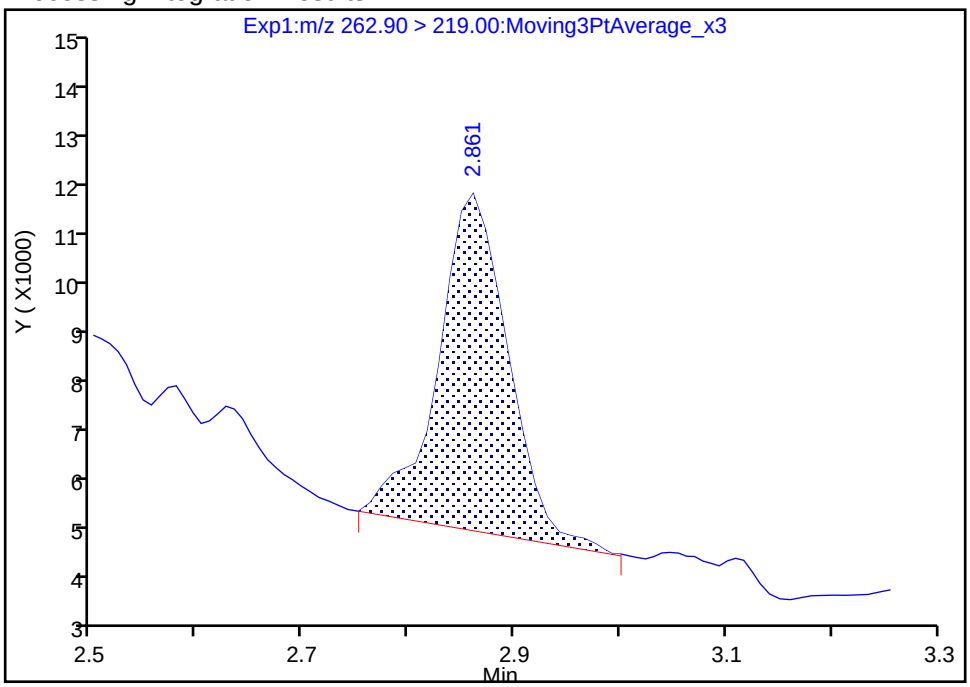
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

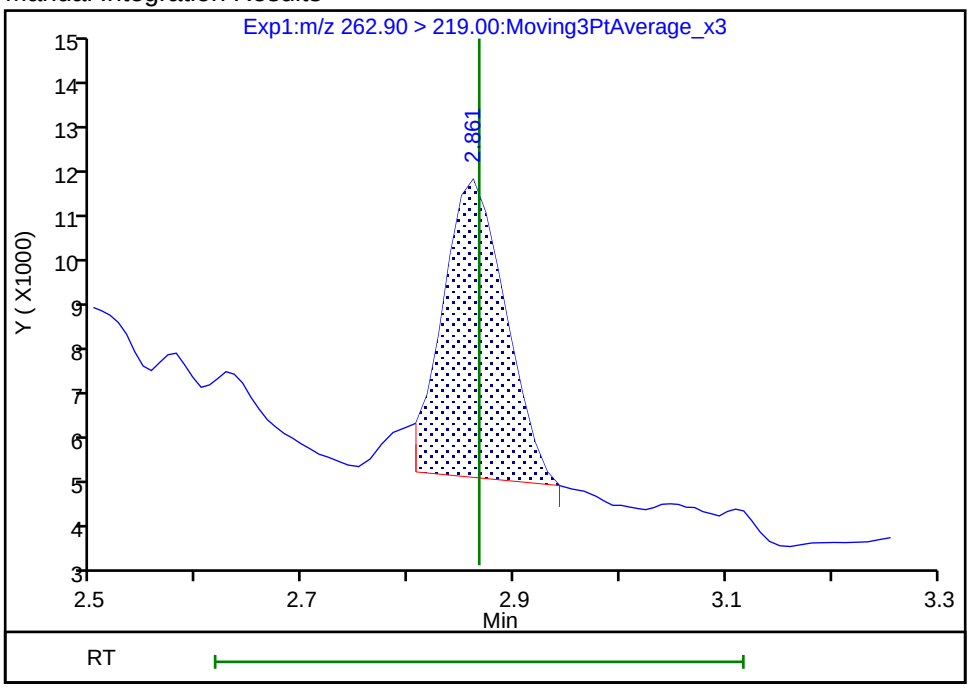
Processing Integration Results

RT: 2.86
Area: 29528
Amount: 0.012278
Amount Units: ng/ml



Manual Integration Results

RT: 2.86
Area: 25689
Amount: 0.010682
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

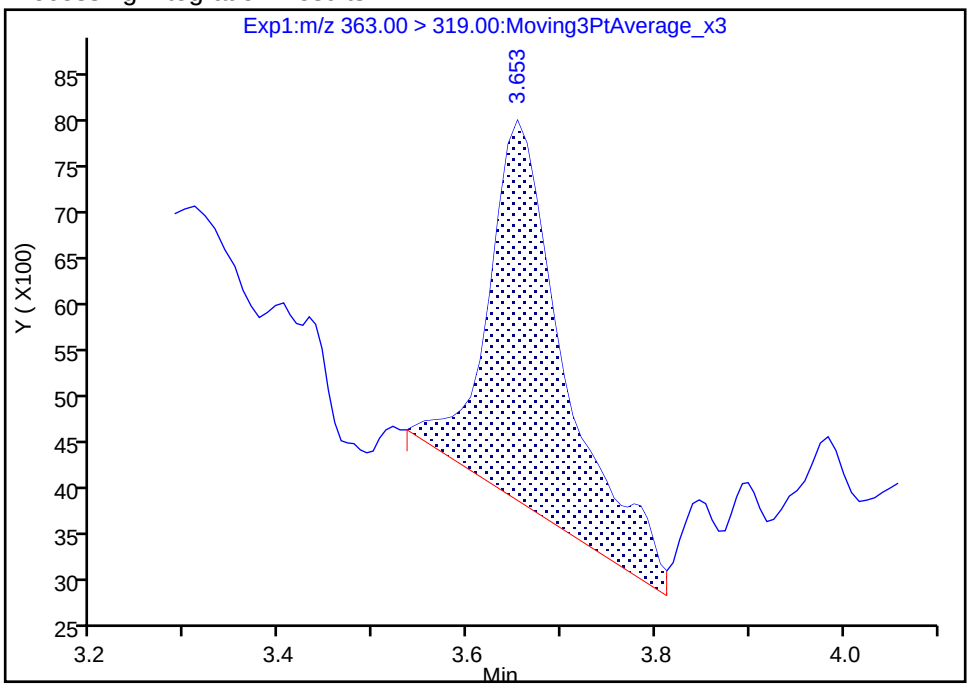
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

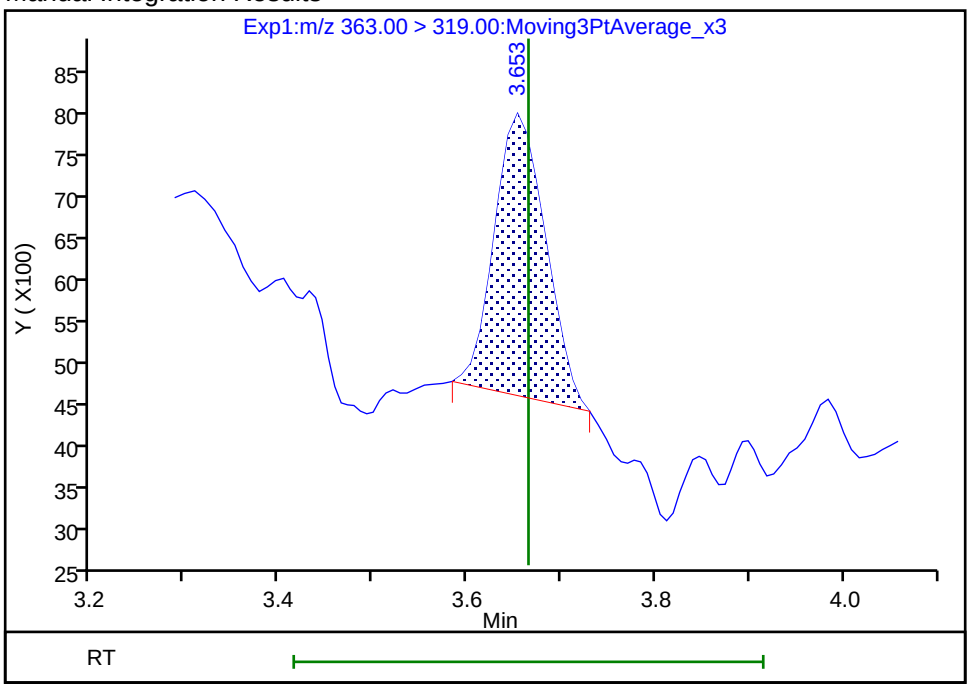
Processing Integration Results

RT: 3.65
Area: 23719
Amount: 0.007491
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 12900
Amount: 0.004074
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

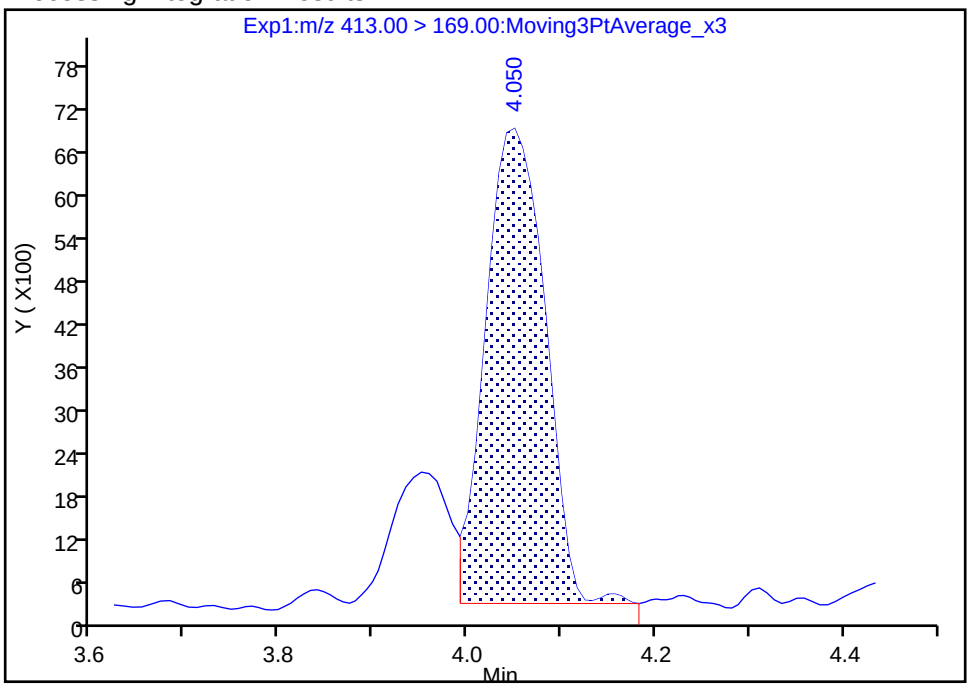
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

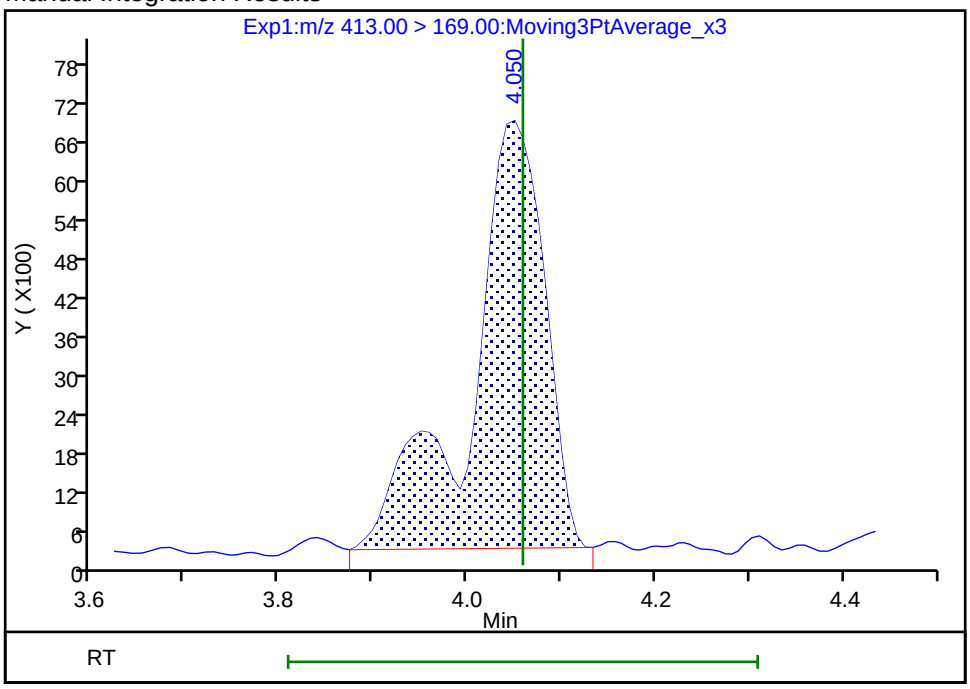
Processing Integration Results

RT: 4.05
Area: 29146
Amount: 0.020914
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 36277
Amount: 0.021692
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:35

Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

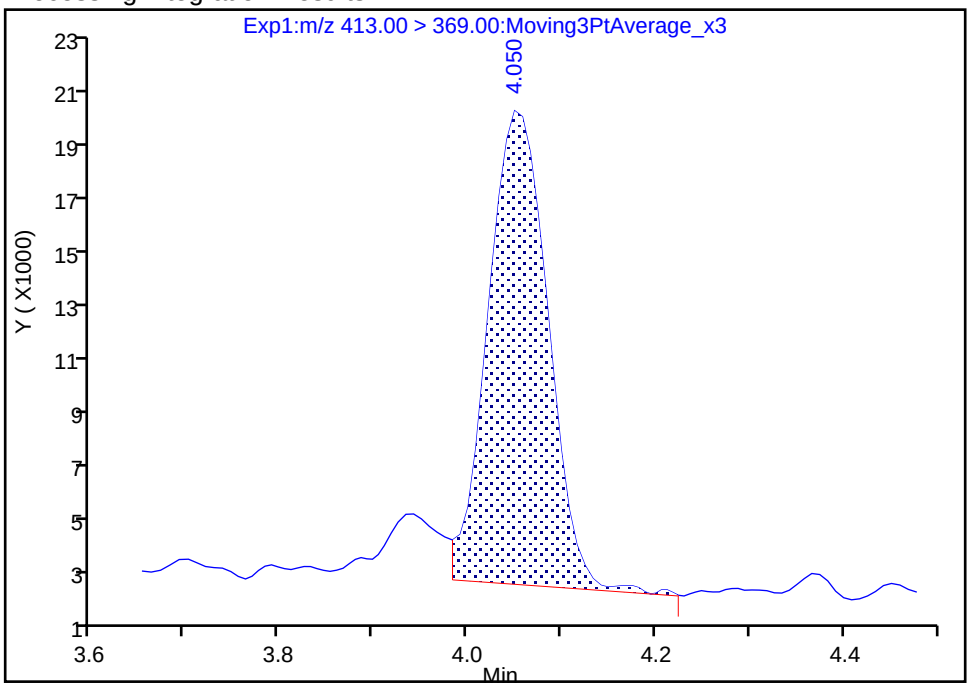
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

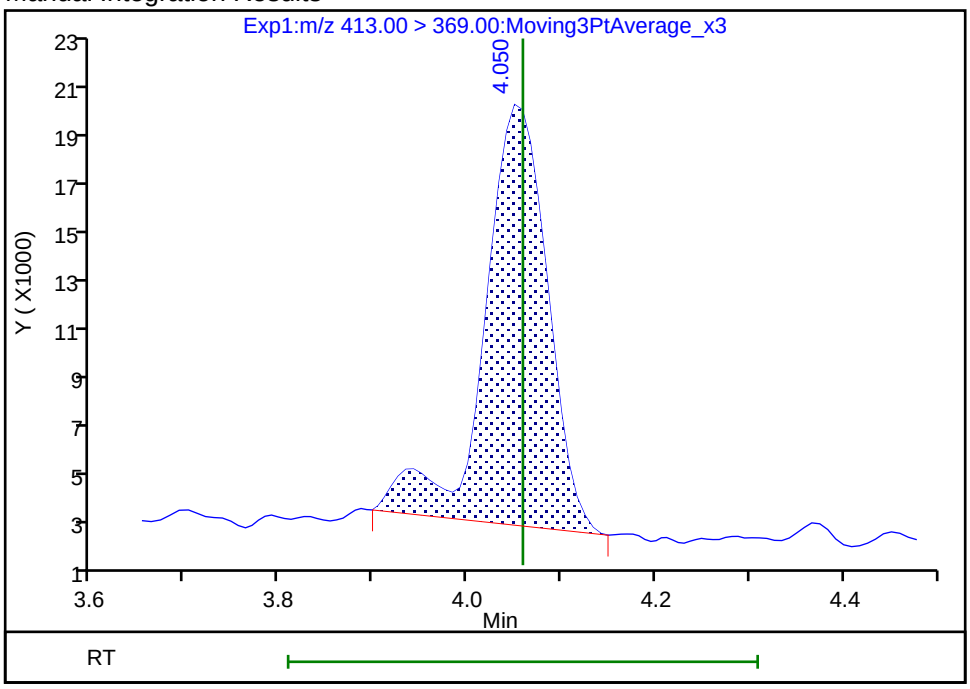
Processing Integration Results

RT: 4.05
Area: 76739
Amount: 0.020914
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 79594
Amount: 0.021692
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:39
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

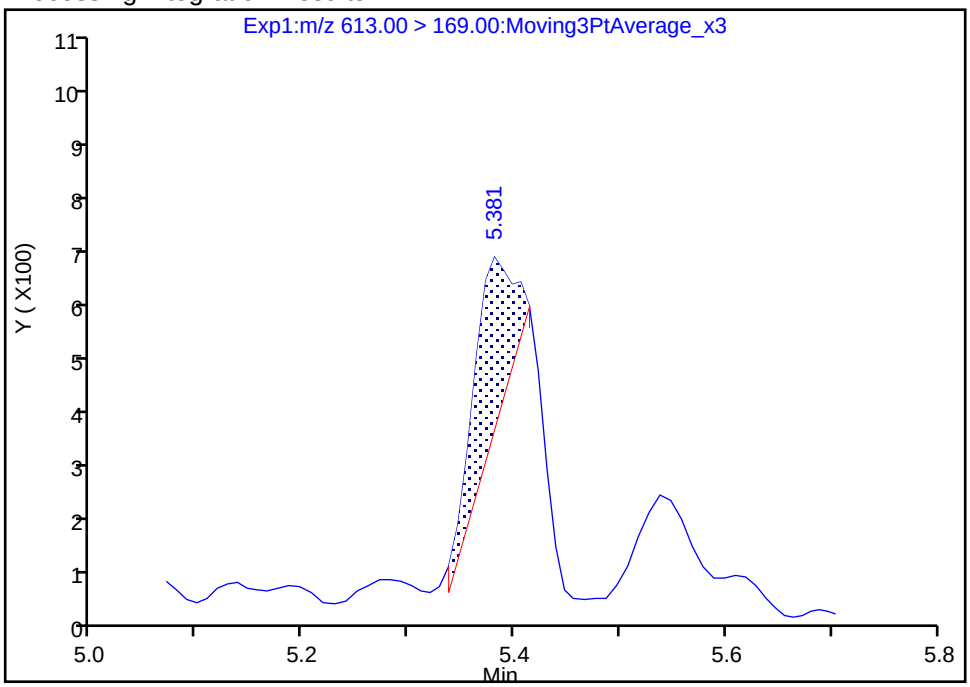
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

57 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

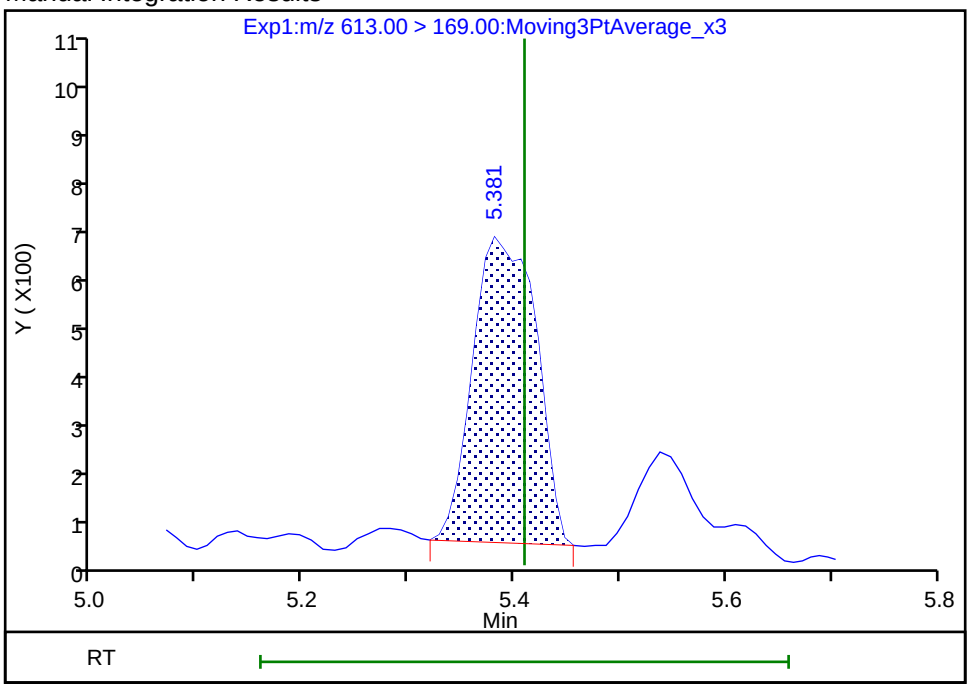
Processing Integration Results

RT: 5.38
Area: 839
Amount: 0.007677
Amount Units: ng/ml



Manual Integration Results

RT: 5.38
Area: 2624
Amount: 0.007677
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:06
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

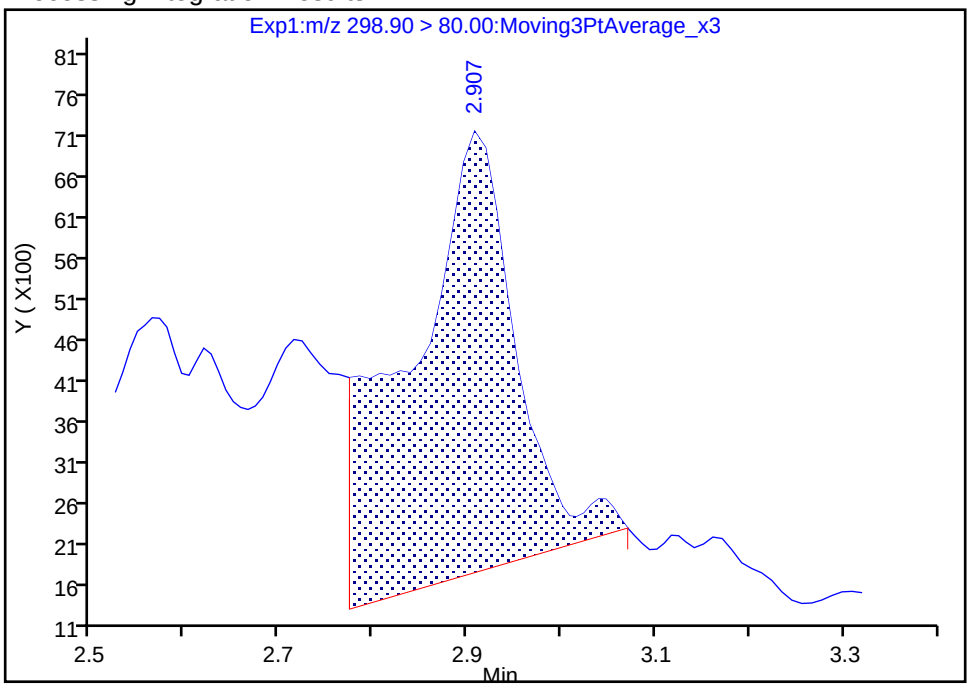
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

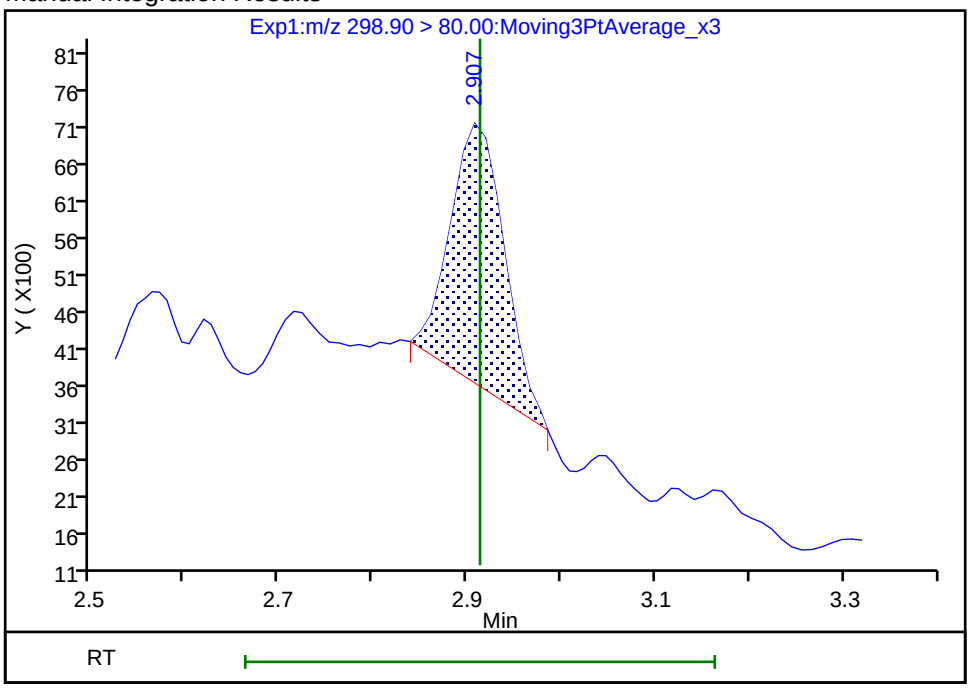
Processing Integration Results

RT: 2.91
Area: 42380
Amount: 0.012568
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 13904
Amount: 0.004123
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:06
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

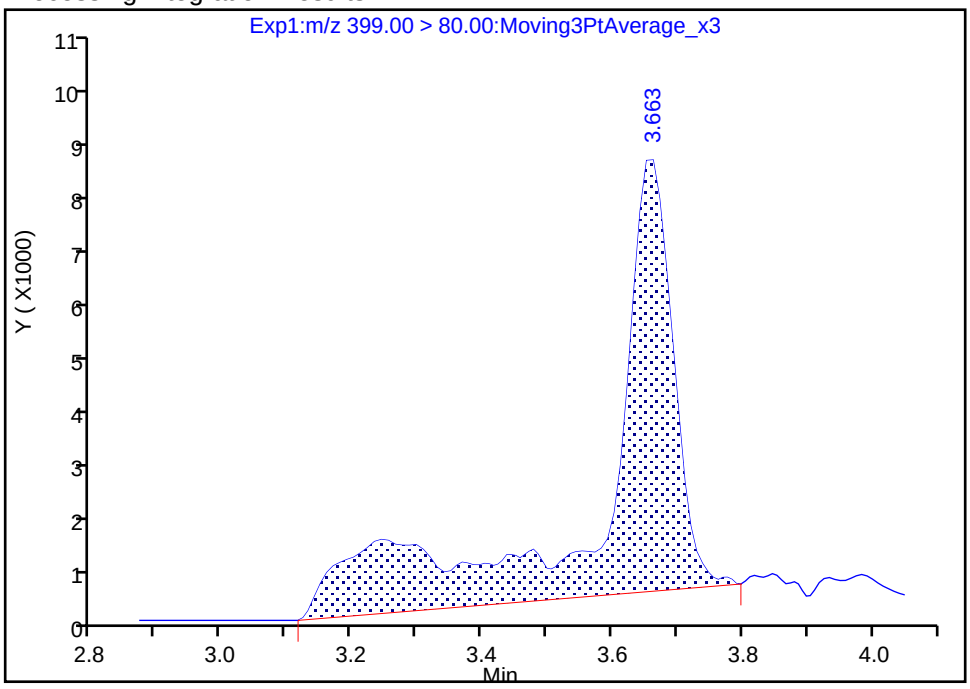
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

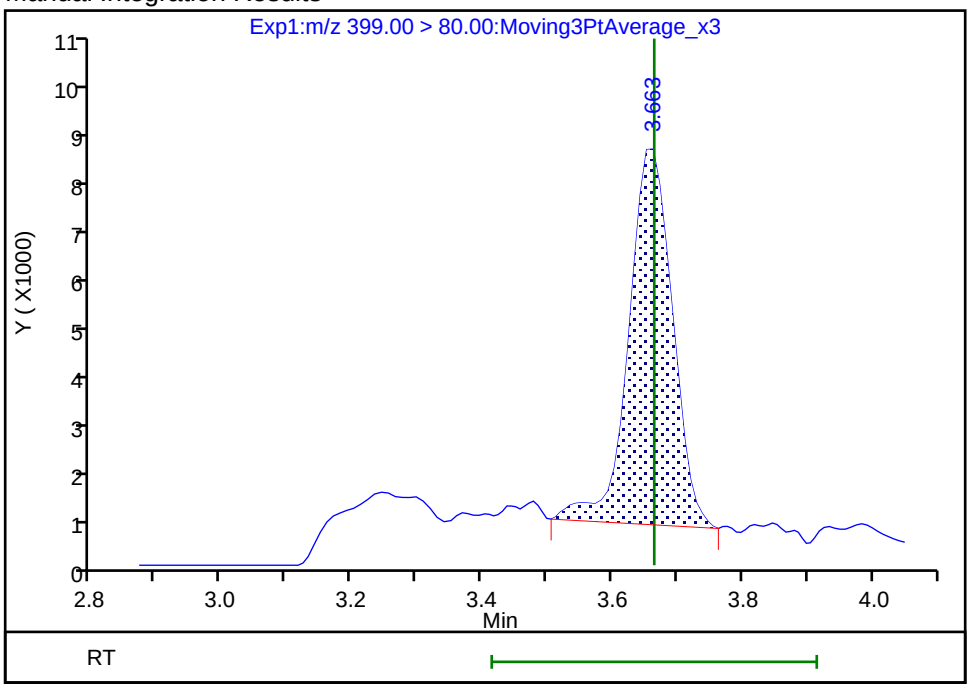
Processing Integration Results

RT: 3.66
Area: 60551
Amount: 0.024114
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 34986
Amount: 0.013933
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:25
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

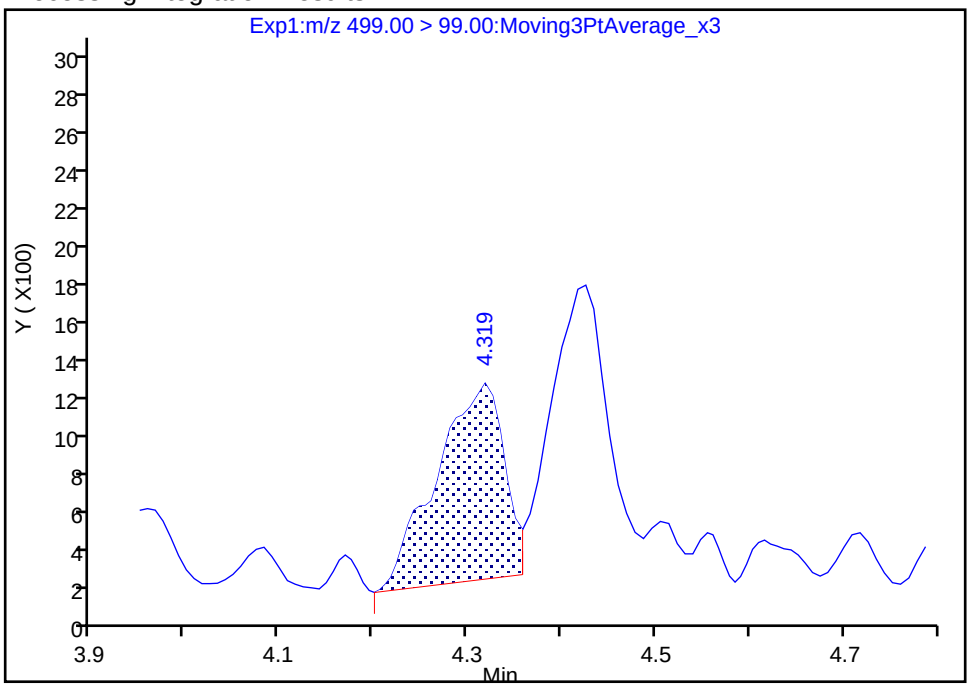
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

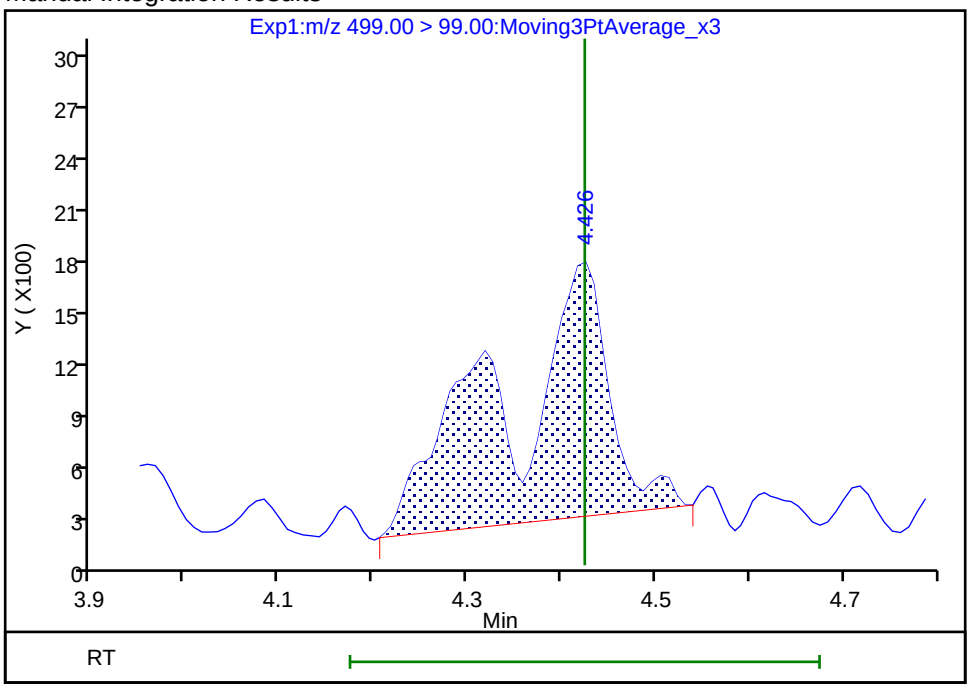
Processing Integration Results

RT: 4.32
Area: 5210
Amount: 0.049457
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 11610
Amount: 0.043959
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:47
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

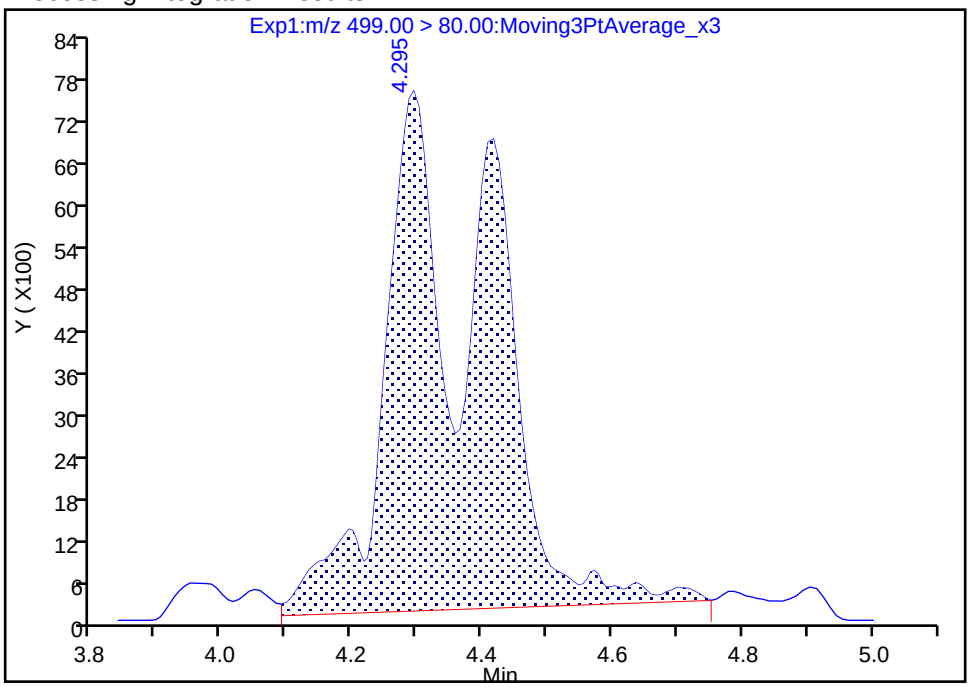
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_065.d				
Injection Date:	10-Sep-2020 19:04:21	Instrument ID:	A13		
Lims ID:	460-217659-D-4-A	Lab Sample ID:	320-217659-4		
Client ID:	MW-211				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	38	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

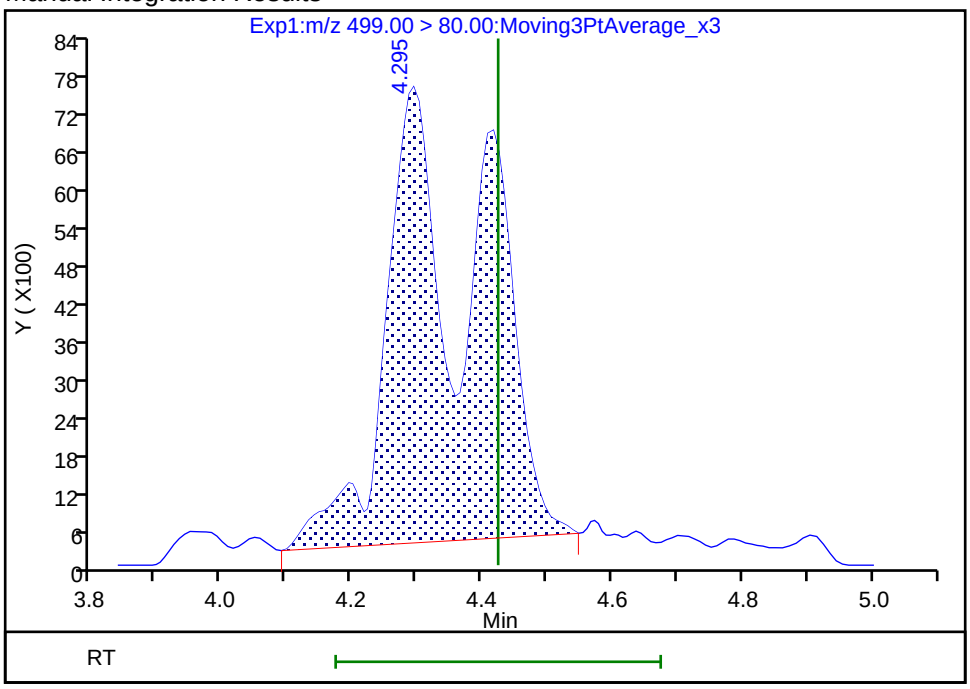
Processing Integration Results

RT: 4.29
Area: 79256
Amount: 0.049457
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 70445
Amount: 0.043959
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:13:51
Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-214 Lab Sample ID: 460-217659-5

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_066.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 09:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 241.2(mL) Date Analyzed: 09/10/2020 19:13

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	9.76	B	2.07	0.36
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.50		2.07	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	6.65		2.07	0.60
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.08		2.07	0.26
335-67-1	Perfluorooctanoic acid (PFOA)	25.8		2.07	0.88
375-95-1	Perfluorononanoic acid (PFNA)	1.41	J	2.07	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	1.42	J	2.07	0.32
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.14	U	2.07	1.14
307-55-1	Perfluorododecanoic acid (PFDoA)	0.57	U	2.07	0.57
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.35	U	2.07	1.35
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.30	U	2.07	0.30
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.32		2.07	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.44	B	2.07	0.18
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.75	J	2.07	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	46.6		2.07	0.56
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.33	U	2.07	0.33
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.04	J	2.07	0.36
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.21	U	20.7	3.21
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.97	U	20.7	1.97
27619-97-2	6:2 FTS	2.07	U	20.7	2.07
39108-34-4	8:2 FTS	2.07	U	20.7	2.07

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-214 Lab Sample ID: 460-217659-5

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_066.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 09:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 241.2(mL) Date Analyzed: 09/10/2020 19:13

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	56		25-150
STL01893	13C5 PFPeA	62		25-150
STL00993	13C2 PFHxA	79		25-150
STL01892	13C4 PFHpA	79		25-150
STL00990	13C4 PFOA	76		25-150
STL00995	13C5 PFNA	80		25-150
STL00996	13C2 PFDA	79		25-150
STL00997	13C2 PFUnA	80		25-150
STL00998	13C2 PFDoA	70		25-150
STL02116	13C2 PFTeDA	74		25-150
STL02337	13C3 PFBS	87		25-150
STL00994	18O2 PFHxS	92		25-150
STL00991	13C4 PFOS	86		25-150
STL01056	13C8 FOSA	75		25-150
STL02118	d3-NMeFOSAA	67		25-150
STL02117	d5-NEtFOSAA	77		25-150
STL02279	M2-6:2 FTS	120		25-150
STL02280	M2-8:2 FTS	96		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d
Lims ID: 460-217659-D-5-A
Client ID: MW-214
Sample Type: Client
Inject. Date: 10-Sep-2020 19:13:45 ALS Bottle#: 39 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-5-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:16:09 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 10:16:09
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.610	5154888	1.41		56.3	6376	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.467	2.482	-0.015	1.000	360937	0.2355			9.9	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.856	2.867	-0.011	0.706	4437442	1.55		62.2	1860	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.856	2.867	-0.011	1.000	198215	0.1086			1.6	M
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.718	7246118	2.02		86.9	381	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.901	2.913	-0.012	1.000	244322	0.0802	Target=2.29		4.2	M
298.90 > 99.00	2.901	2.913	-0.012	1.000	115005		2.12(1.15-3.44)		6.1	M
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.247	3.258	-0.011	1.000	416559	0.1603	Target=13.52		4.6	M
313.00 > 119.00	3.247	3.258	-0.011	1.000	29243		14.24(6.76-20.28)		6.1	M
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.803	6988890	1.98		79.3	3248	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.904	5099379	2.17		91.8	13800	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.655	3.665	-0.010	1.000	340496	0.1226	Target=3.87		7.3	M
363.00 > 169.00	3.645	3.665	-0.020	0.997	94404		3.61(1.93-5.80)		25.0	M
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	314579	0.1312	Target=3.08		21.0	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	98726		3.19(1.54-4.62)		18.7	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.904	6869946	1.98		79.1	4154	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.026	4.042	-0.016	0.996	2887317	2.85		120	521	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	1.000	12223	0.004177			10.0	
22 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	4.034	4.051	-0.017	0.915	29410	0.0180	Target=4.20		4.4	M
449.00 > 99.00	4.034	4.051	-0.017	0.915	10713		2.75(2.10-6.30)		3.7	
D 24 13C4 PFOA										
417.00 > 372.00	4.042	4.059	-0.017	1.000	8046095	1.90		75.8	11395	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.042	4.059	-0.017	1.000	2049962	0.6226	Target=2.99		67.4	M
413.00 > 169.00	4.042	4.059	-0.017	1.000	790759		2.59(1.50-4.49)		283	M
* 25 13C2 PFOA										
415.00 > 370.00	4.042	4.059	-0.017		10775355	2.50			7590	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.401	4.425	-0.024	0.998	1673757	1.12	Target=4.13		279	
499.00 > 99.00	4.401	4.425	-0.024	0.998	321763		5.20(2.06-6.19)		96.9	M
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.091	3425846	2.04		85.5	930	
30 Perfluorononanoic acid										
463.00 > 419.00	4.418	4.433	-0.015	1.000	101621	0.0341	Target=7.70		10.7	
463.00 > 169.00	4.418	4.433	-0.015	1.000	10853		9.36(3.85-11.55)		15.8	
D 31 13C5 PFNA										
468.00 > 423.00	4.418	4.442	-0.024	1.093	7843727	2.00		80.0	7386	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.171	4488561	1.86		74.6	4401	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	83097	0.0493			10.6	
D 37 13C2 PFDA										
515.00 > 470.00	4.777	4.793	-0.016	1.182	9326339	1.96		78.5	13354	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.786	4.793	-0.007	1.002	114682	0.0343	Target=10.40		15.1	
513.00 > 169.00	4.769	4.793	-0.024	0.998	7625		15.04(5.20-15.61)		16.6	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.777	4.802	-0.025	1.182	3076327	2.30		95.9	1573	
39 8:2 FTS										
527.00 > 507.00	4.786	4.802	-0.016	1.002	5220	0.001644			36.5	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.942	4.959	-0.017	1.223	4103379	1.68		67.0	2996	
41 NMeFOSAA										
570.00 > 419.00	4.952	4.959	-0.007	1.002	30381	0.0230			5.5	
D 44 13C2 PFUnA										
565.00 > 520.00	5.097	5.113	-0.016	1.261	9256087	1.99		79.7	6034	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.097	5.113	-0.016	1.000	30164	0.0123	Target=8.31		9.2	
563.00 > 169.00	5.087	5.113	-0.026	0.998	2941		10.26(4.15-12.46)		12.1	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.106	5.123	-0.017	1.263	4535701	1.91		76.5	2584	
48 NEtFOSA										M
584.00 > 419.00	5.106	5.132	-0.026	1.000	50354	0.0359			114	M
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.335	8761262	1.75		70.1	7011	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.396	5.409	-0.013	1.000	15588	0.004876	Target=9.00		7.2	
613.00 > 169.00	5.387	5.409	-0.022	0.998	1649		9.45(4.50-13.49)		7.9	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.654	5.676	-0.022	1.048	12766	0.003886	Target=6.96		10.1	
663.00 > 169.00	5.662	5.676	-0.014	1.049	1615		7.90(3.48-10.45)		10.6	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.905	5.920	-0.015	1.461	9123732	1.85		73.9	12413	
62 Perfluorotetradecanoic acid										M
713.00 > 669.00	5.910	5.920	-0.010	1.001	21231	0.005910	Target=10.31		9.8	
713.00 > 219.00	5.921	5.920	0.001	1.003	2170		9.78(5.16-15.47)		15.9	M

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 10:16:09 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d

Injection Date: 10-Sep-2020 19:13:45 Instrument ID: A13

Lims ID: 460-217659-D-5-A Lab Sample ID: 320-217659-5

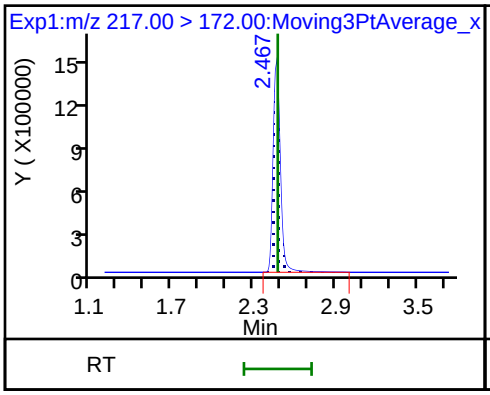
Client ID: MW-214

Operator ID: SACINSTLCMS01 ALS Bottle#: 39 Worklist Smp#: 9

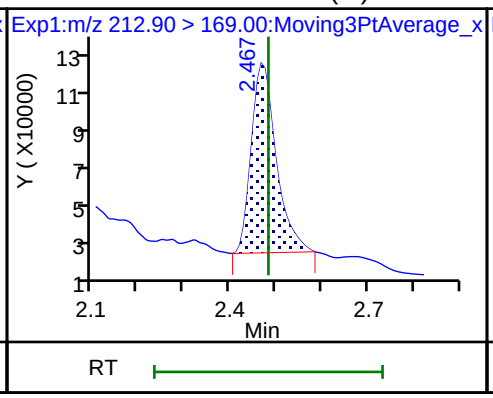
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

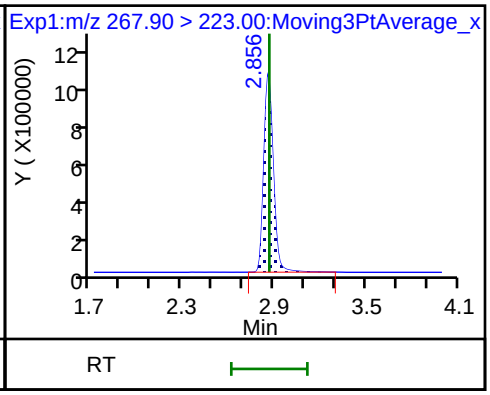
D 1 13C4 PFBA



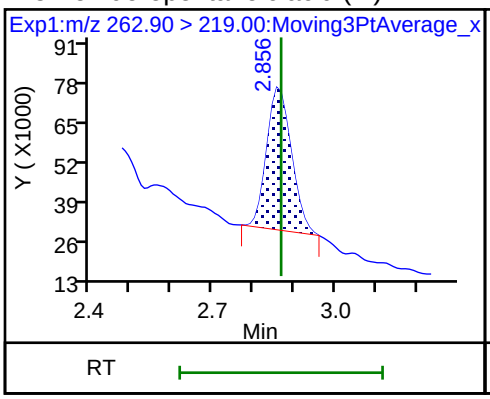
2 Perfluorobutanoic acid (M)



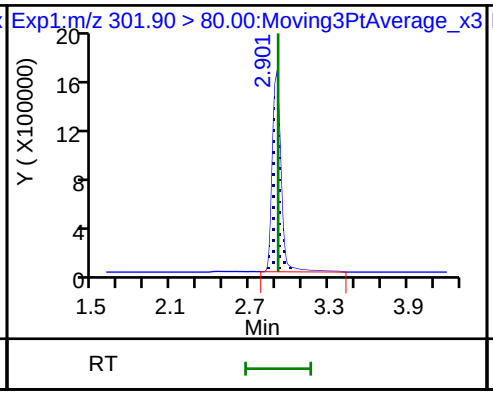
D 4 13C5 PFPeA



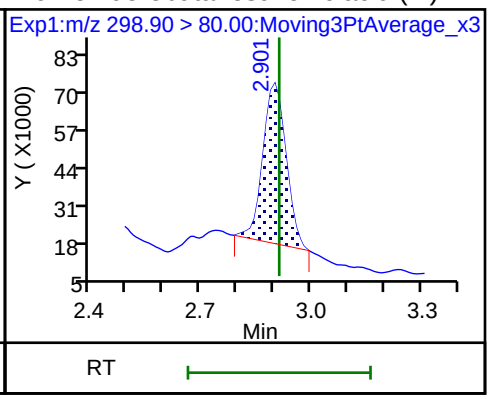
5 Perfluoropentanoic acid (M)



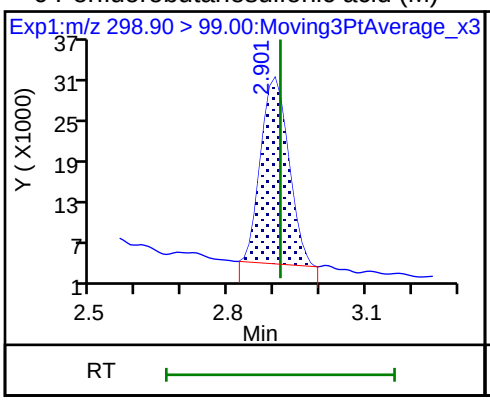
D 14 13C3 PFBS



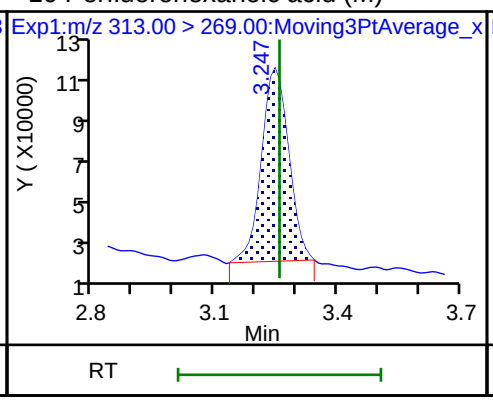
6 Perfluorobutanesulfonic acid (M)



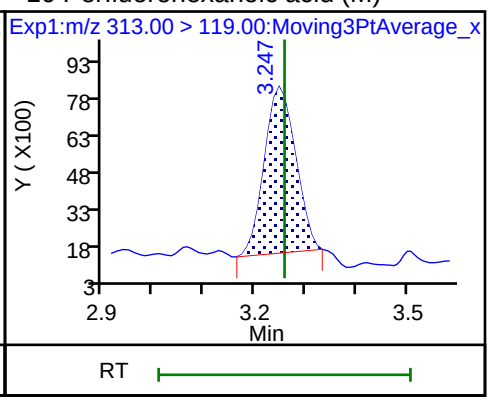
6 Perfluorobutanesulfonic acid (M)



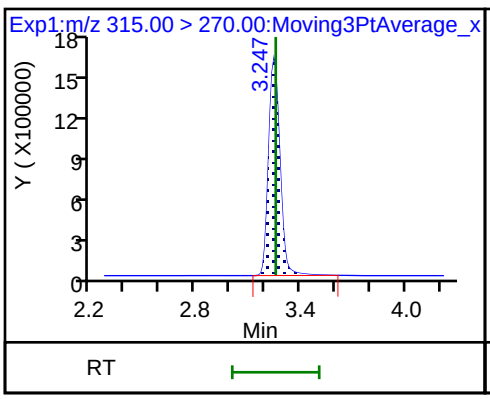
10 Perfluorohexanoic acid (M)



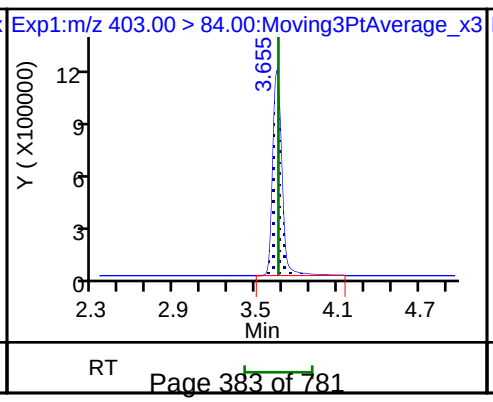
10 Perfluorohexanoic acid (M)



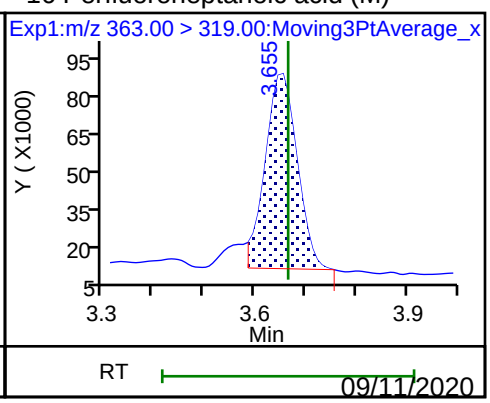
D 9 13C2 PFHxA



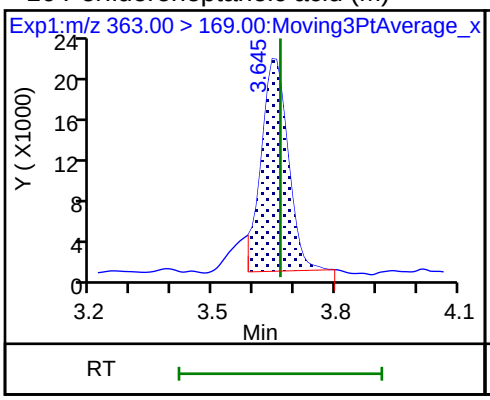
D 17 18O2 PFHxS



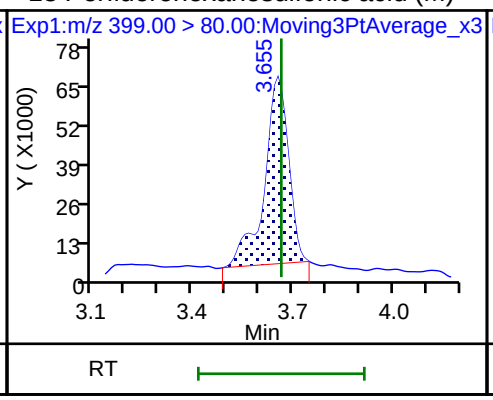
16 Perfluoroheptanoic acid (M)



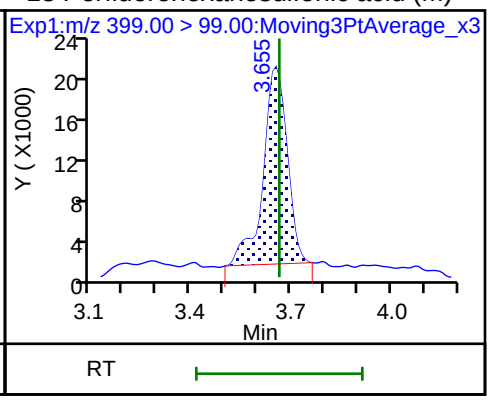
16 Perfluoroheptanoic acid (M)



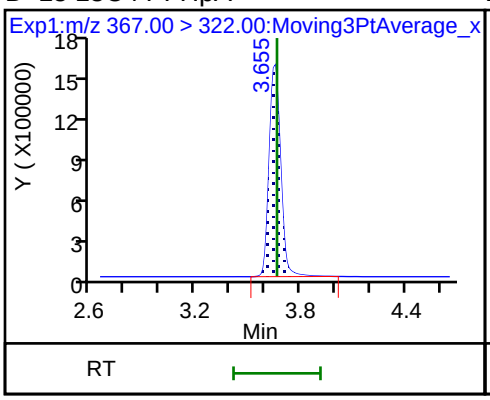
18 Perfluorohexanesulfonic acid (M)



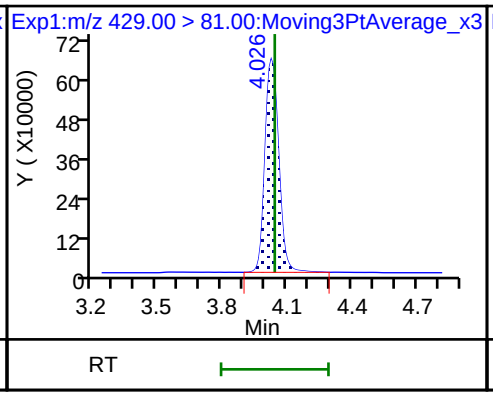
18 Perfluorohexanesulfonic acid (M)



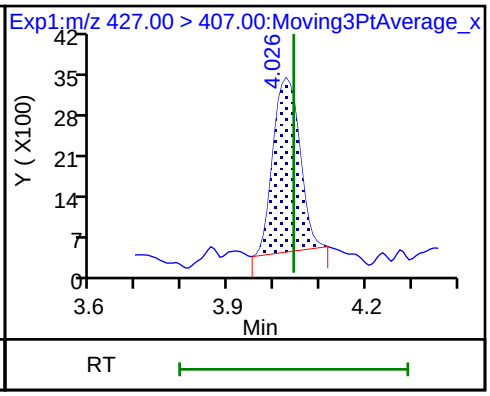
D 15 13C4 PFHpA



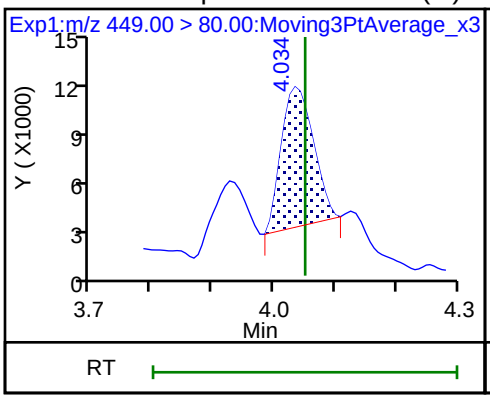
D 20 M2-6:2 FTS



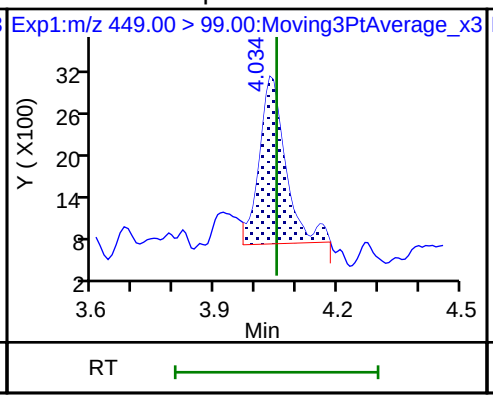
21 6:2 FTS



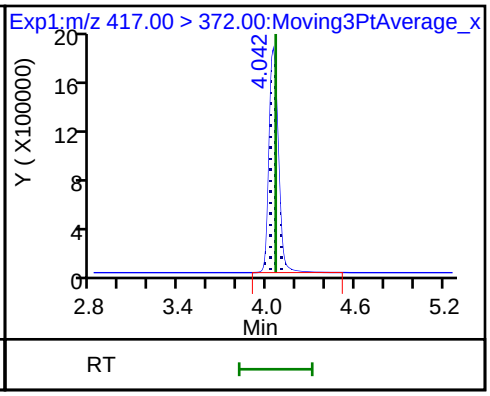
22 Perfluoroheptanesulfonic acid (M)



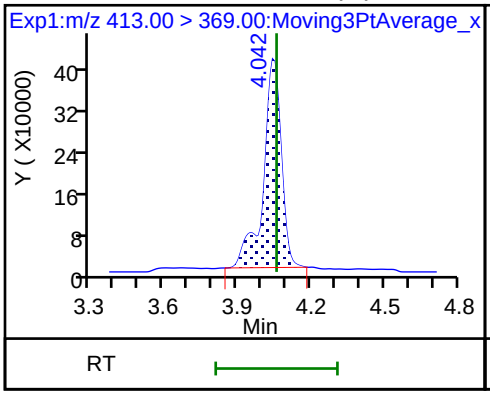
22 Perfluoroheptanesulfonic acid



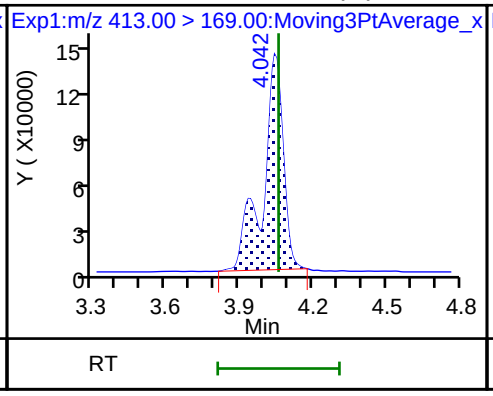
D 24 13C4 PFOA



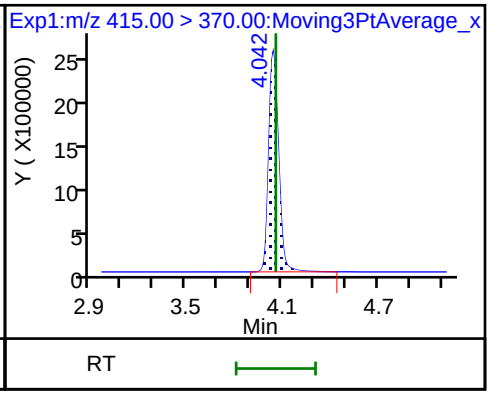
26 Perfluorooctanoic acid (M)



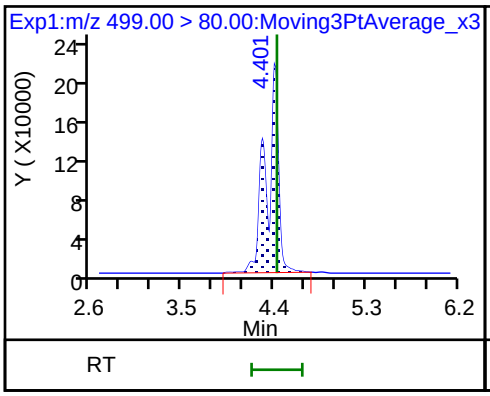
26 Perfluorooctanoic acid (M)



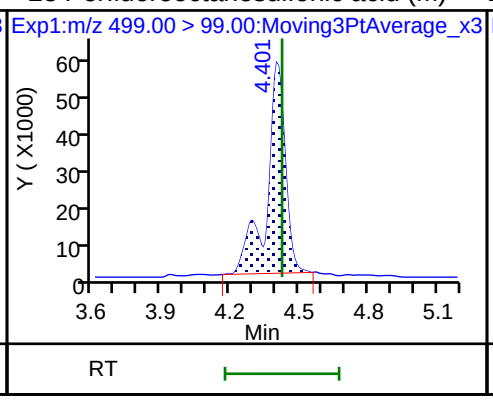
* 25 13C2 PFOA



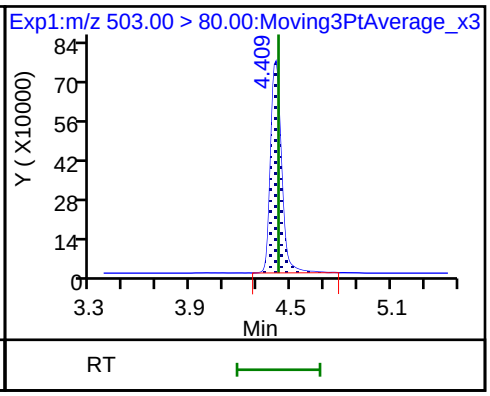
28 Perfluorooctanesulfonic acid



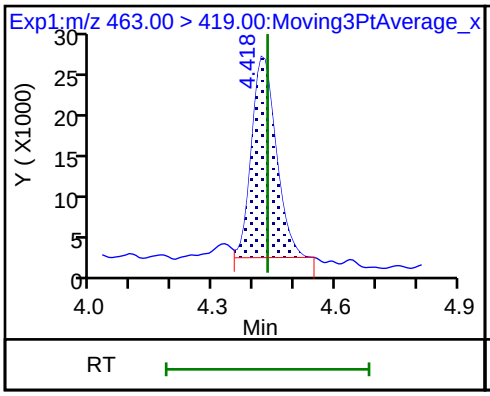
28 Perfluorooctanesulfonic acid (M)



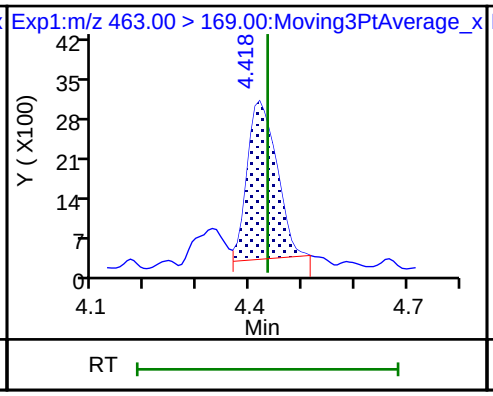
D 29 13C4 PFOS



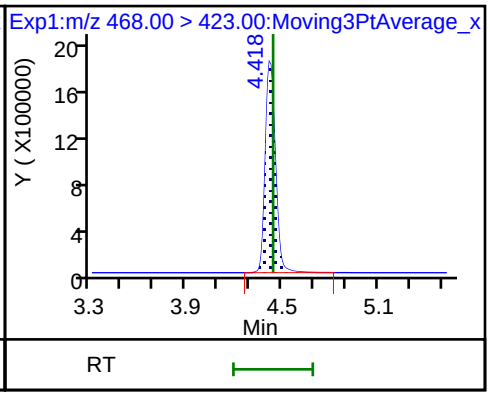
30 Perfluorononanoic acid



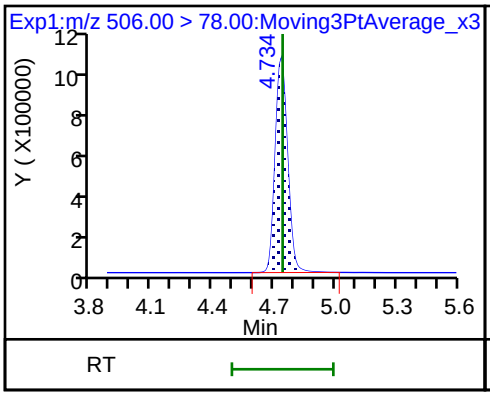
30 Perfluorononanoic acid



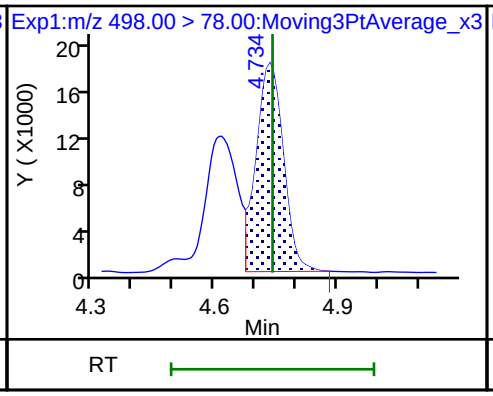
D 31 13C5 PFNA



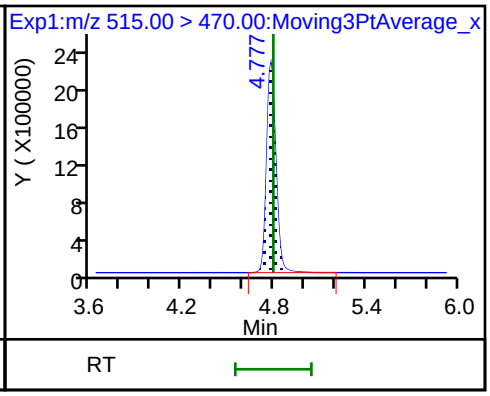
D 34 13C8 FOSA



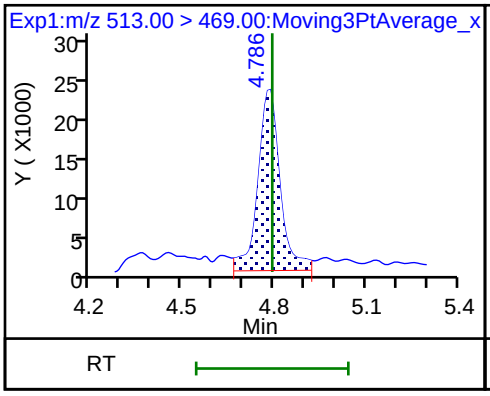
33 Perfluorooctanesulfonamide



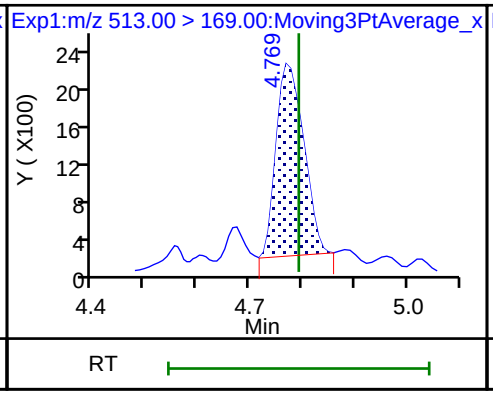
D 37 13C2 PFDA



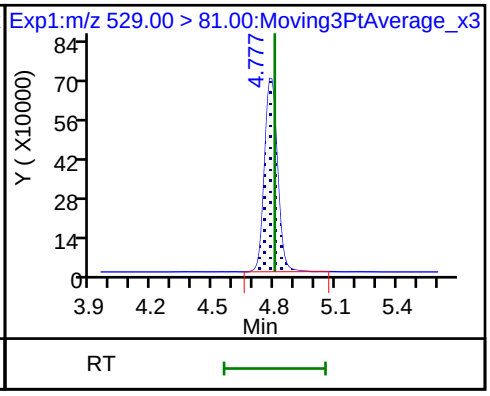
36 Perfluorodecanoic acid



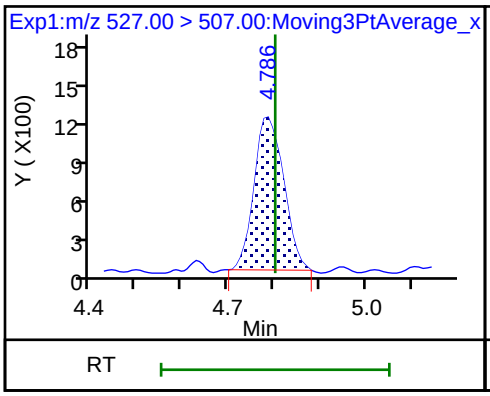
36 Perfluorodecanoic acid



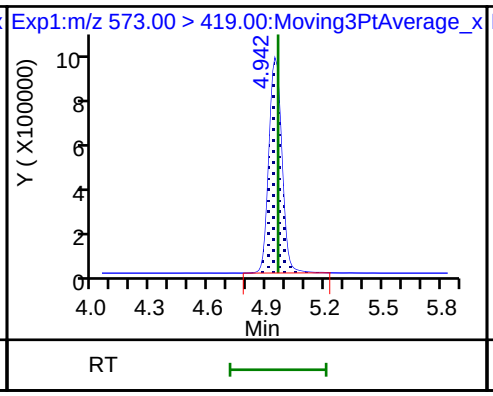
D 38 M2-8:2 FTS



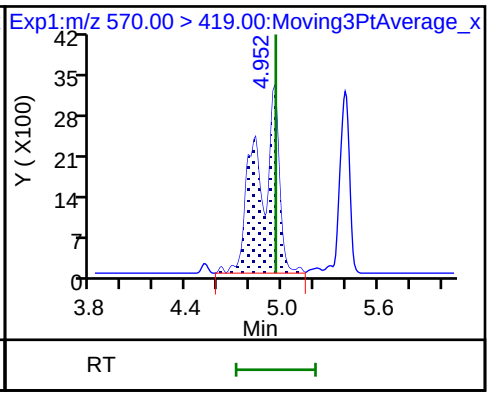
39 8:2 FTS



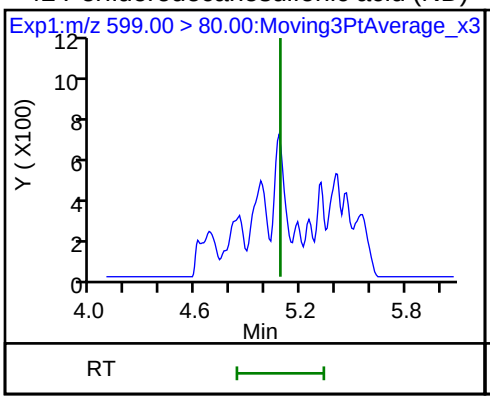
D 40 d3-NMeFOSAA



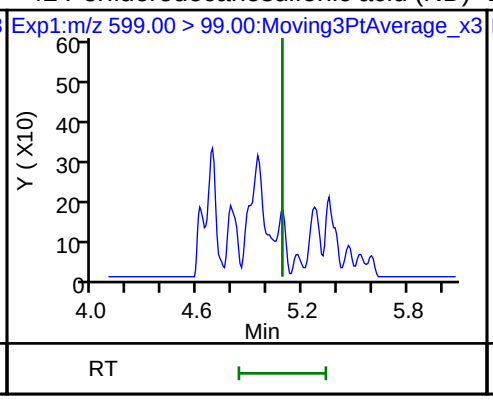
41 NMeFOSAA



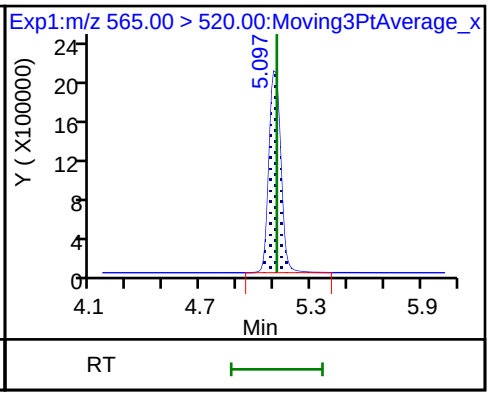
42 Perfluorodecanesulfonic acid (ND)



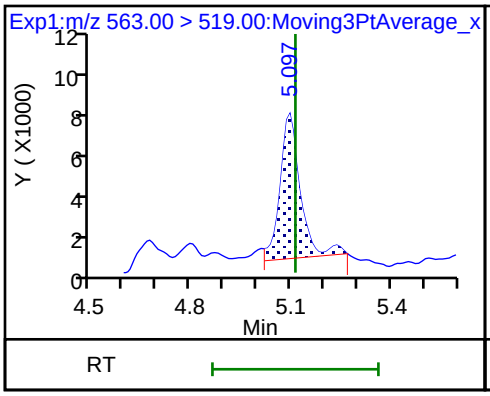
42 Perfluorodecanesulfonic acid (ND)



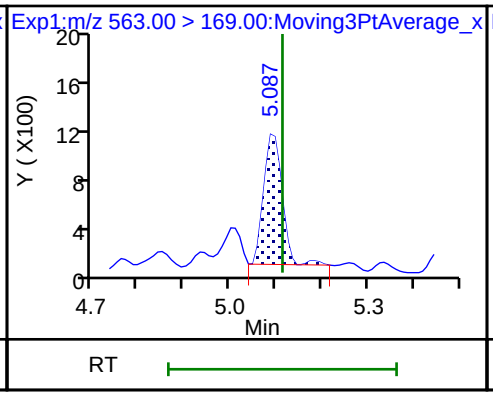
D 44 13C2 PFUnA



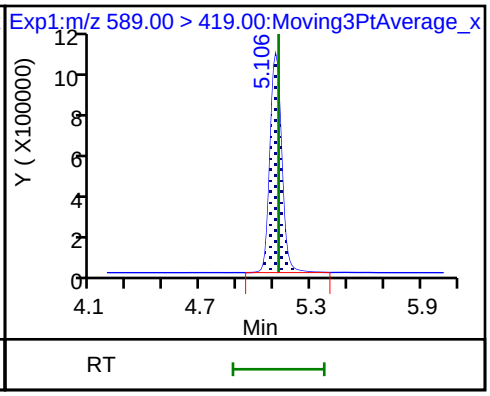
45 Perfluoroundecanoic acid



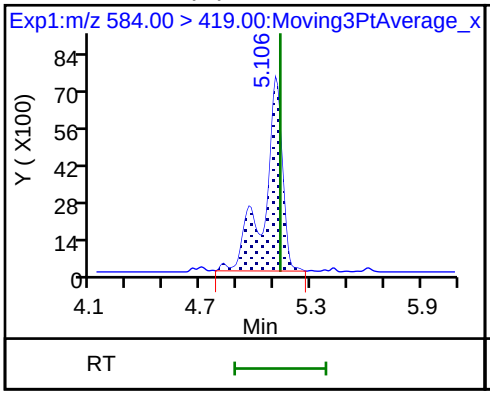
45 Perfluoroundecanoic acid



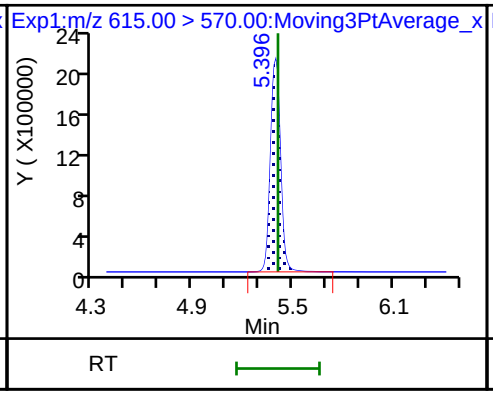
D 46 d5-NEtFOSAA



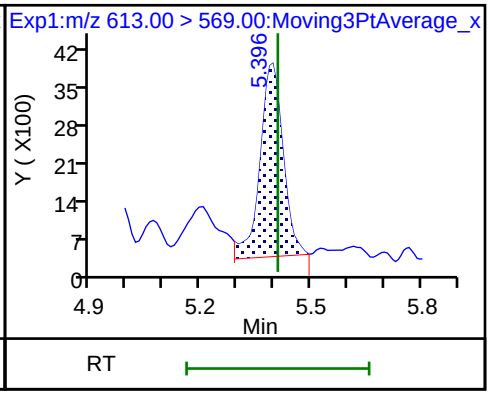
48 NEtFOSA (M)



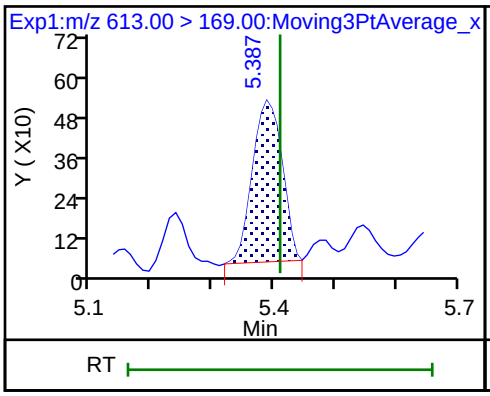
D 56 13C2 PFDoA



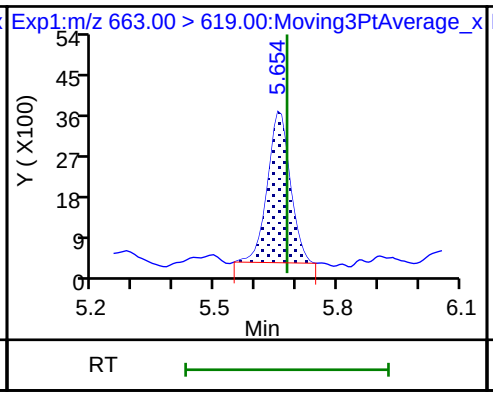
57 Perfluorododecanoic acid



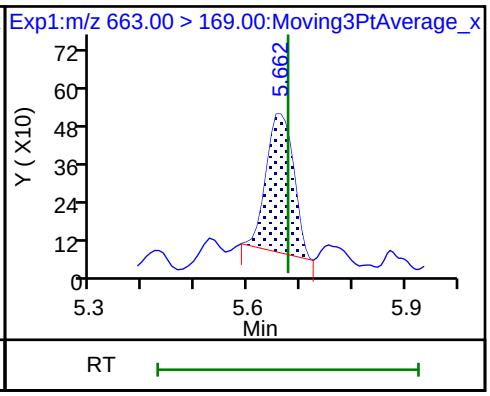
57 Perfluorododecanoic acid



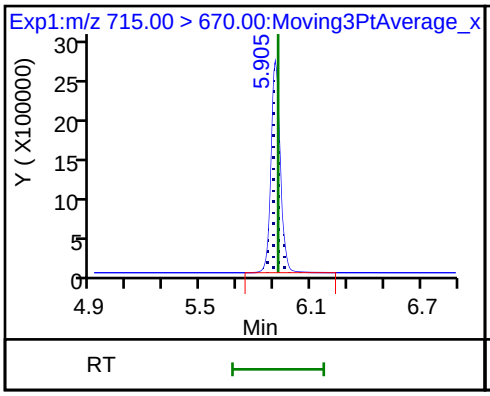
60 Perfluorotridecanoic acid



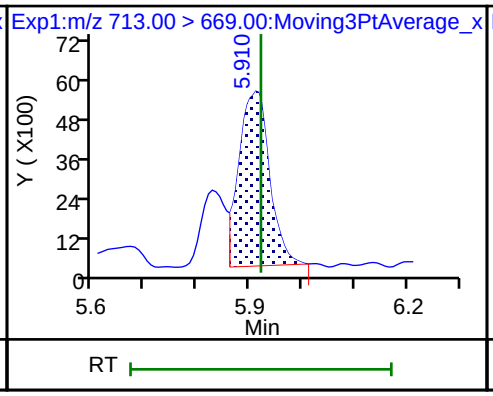
60 Perfluorotridecanoic acid



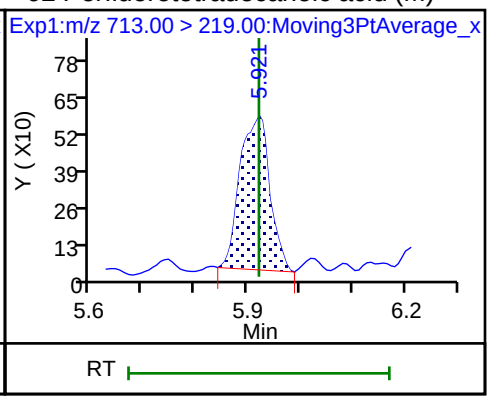
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid



62 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

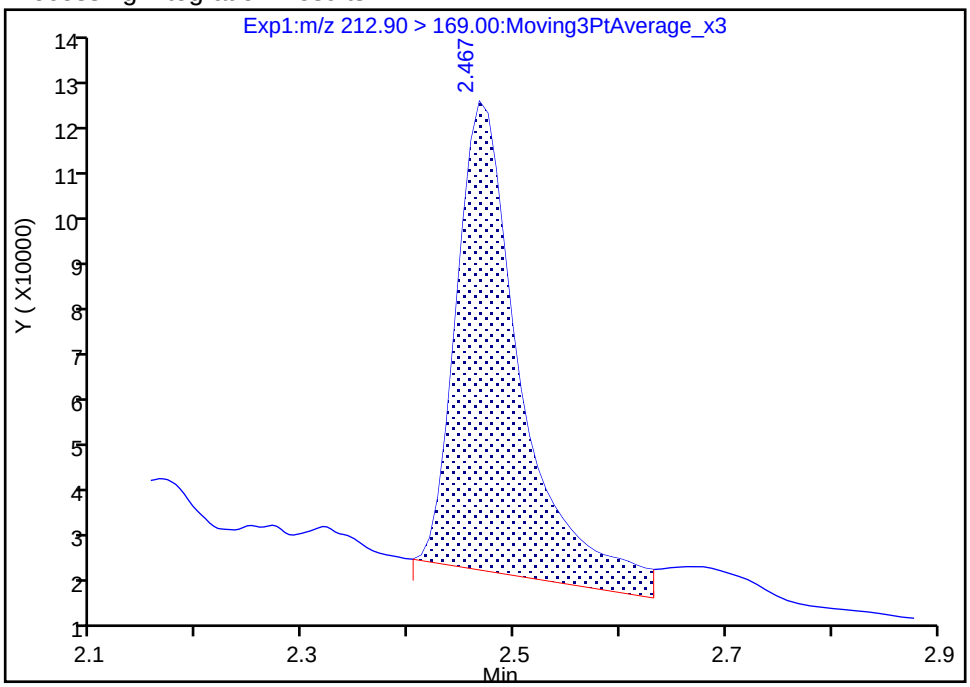
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

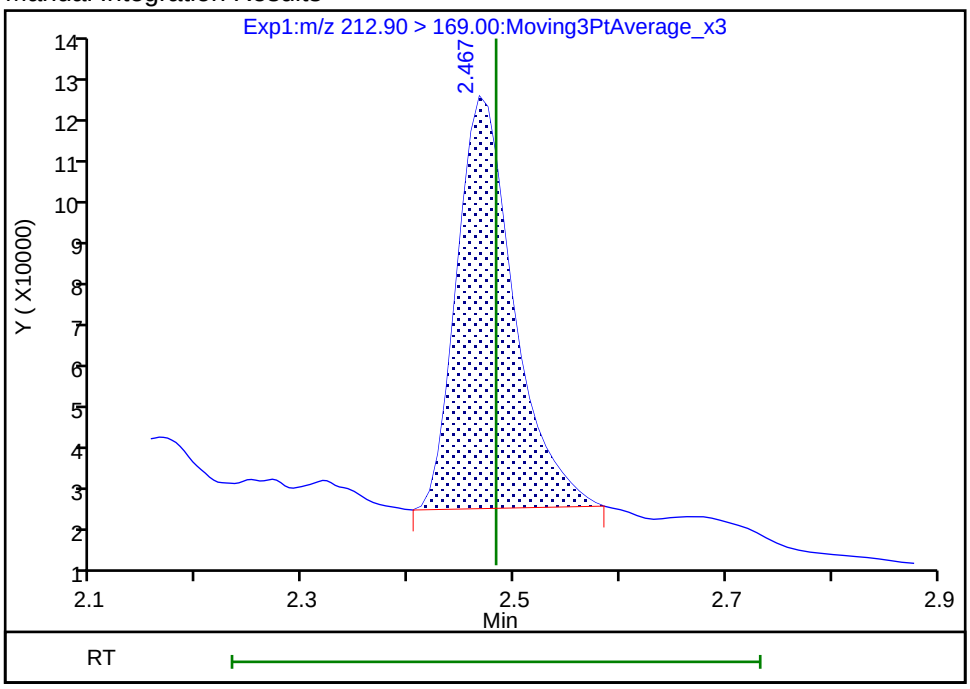
Processing Integration Results

RT: 2.47
Area: 419995
Amount: 0.274049
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 360937
Amount: 0.235514
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

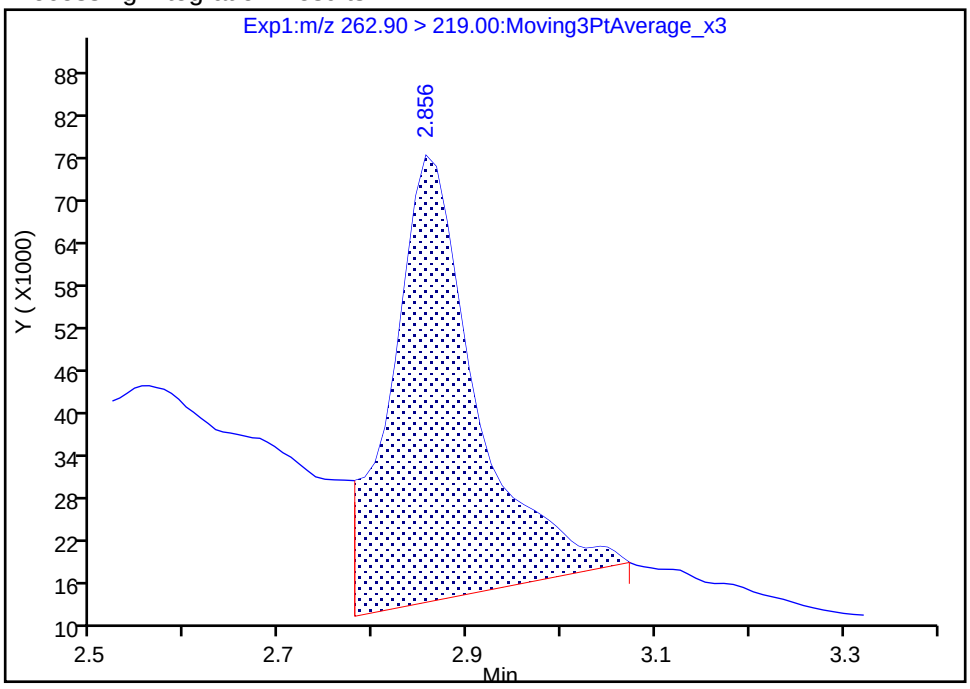
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

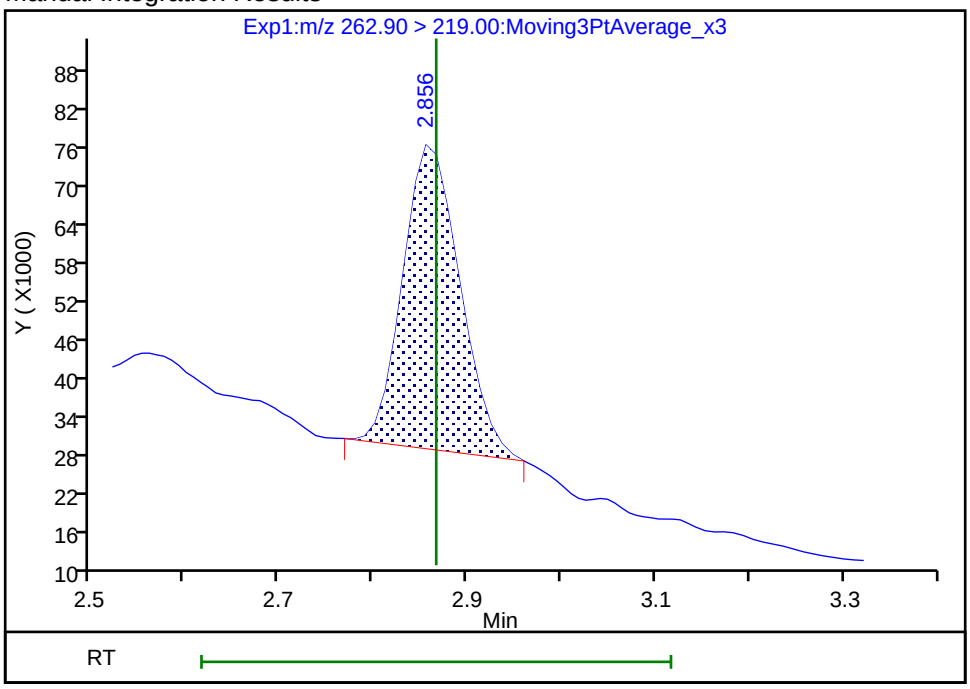
Processing Integration Results

RT: 2.86
Area: 392976
Amount: 0.215407
Amount Units: ng/ml



Manual Integration Results

RT: 2.86
Area: 198215
Amount: 0.108650
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:36
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

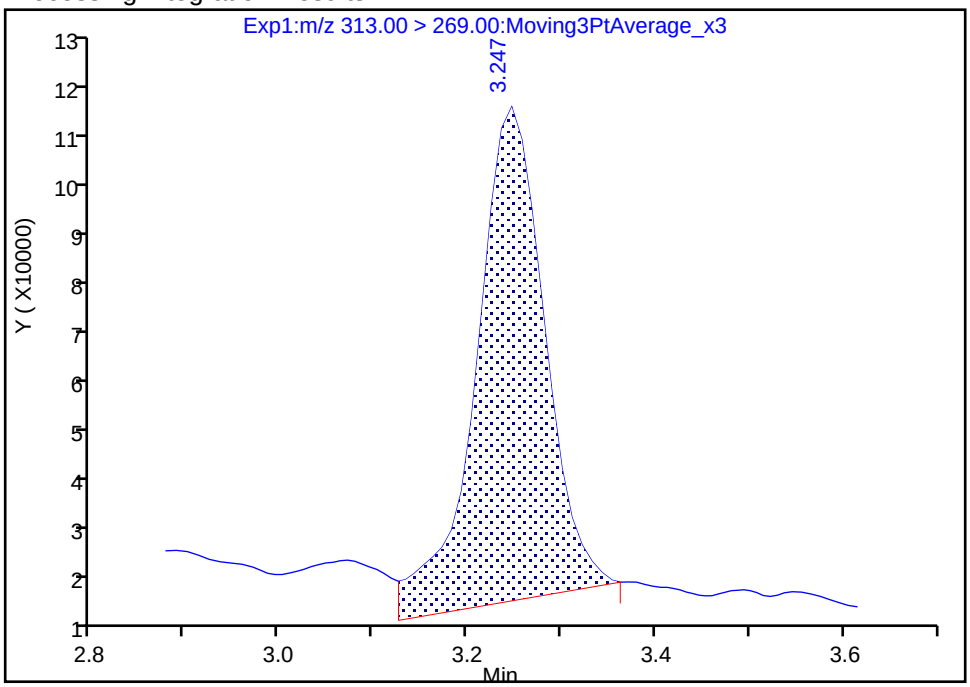
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

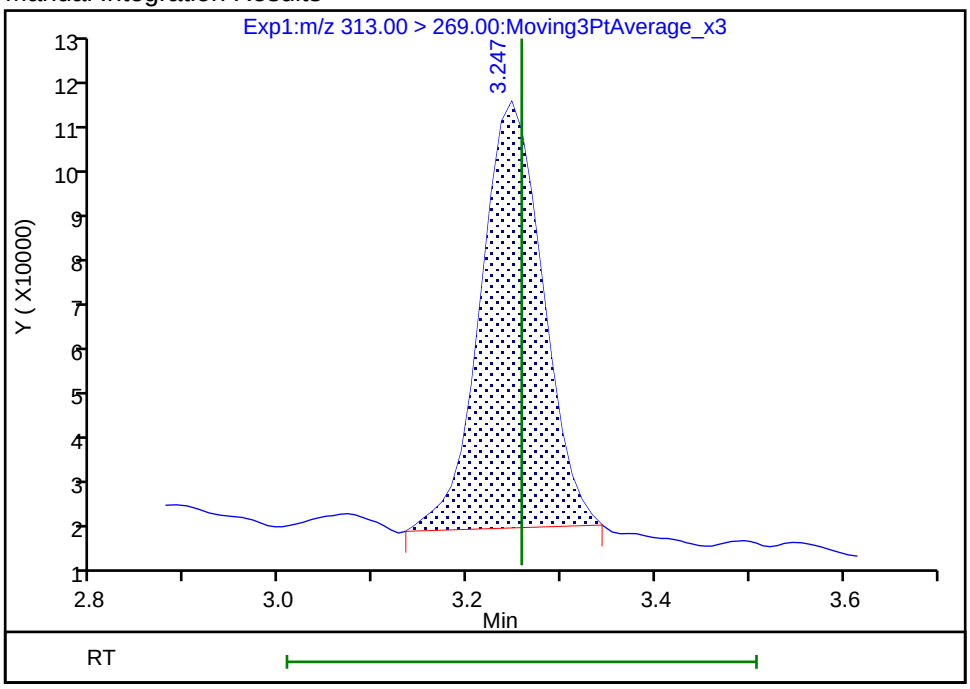
Processing Integration Results

RT: 3.25
Area: 484337
Amount: 0.186419
Amount Units: ng/ml



Manual Integration Results

RT: 3.25
Area: 416559
Amount: 0.160332
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

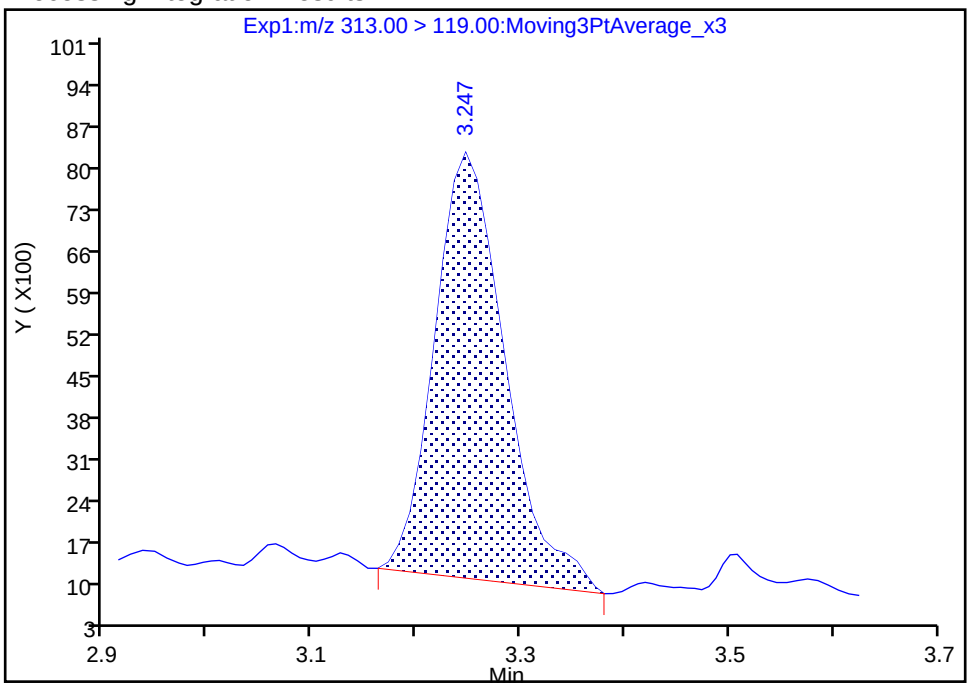
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

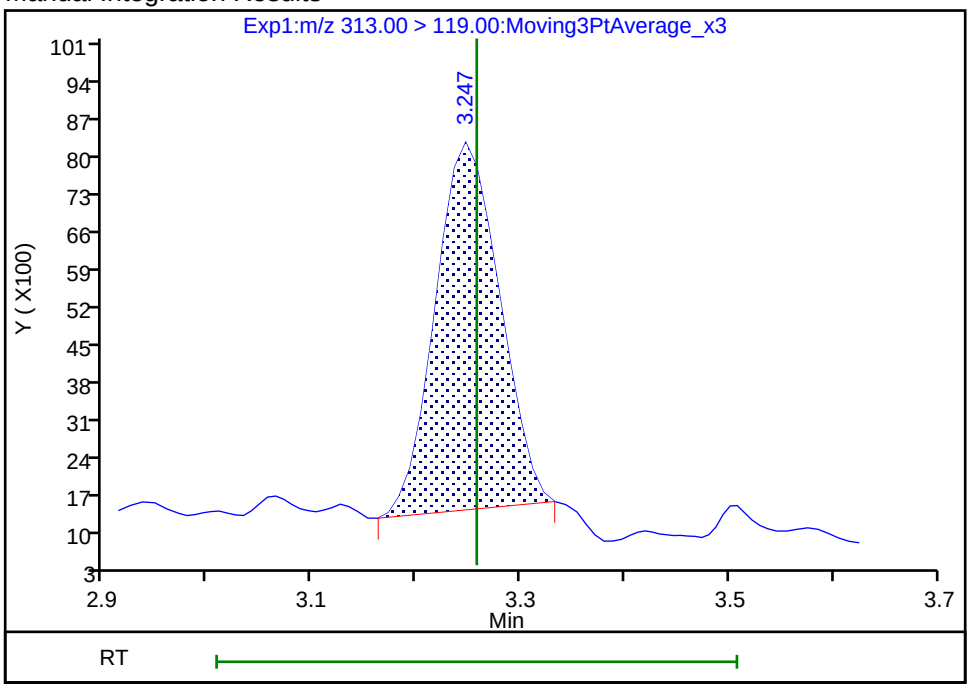
Processing Integration Results

RT: 3.25
Area: 33592
Amount: 0.186419
Amount Units: ng/ml



Manual Integration Results

RT: 3.25
Area: 29243
Amount: 0.160332
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

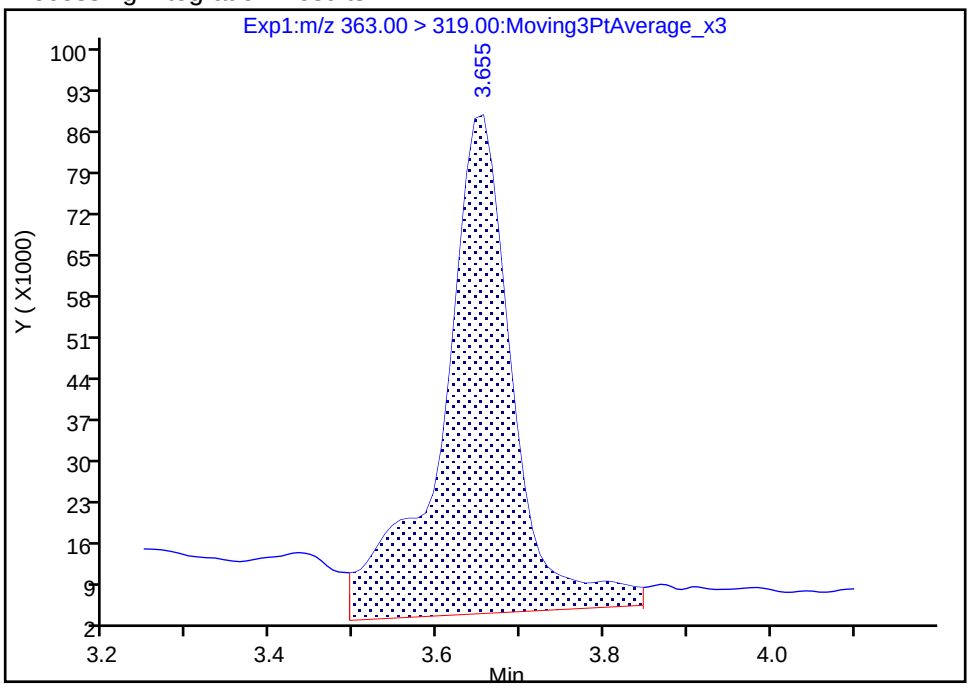
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

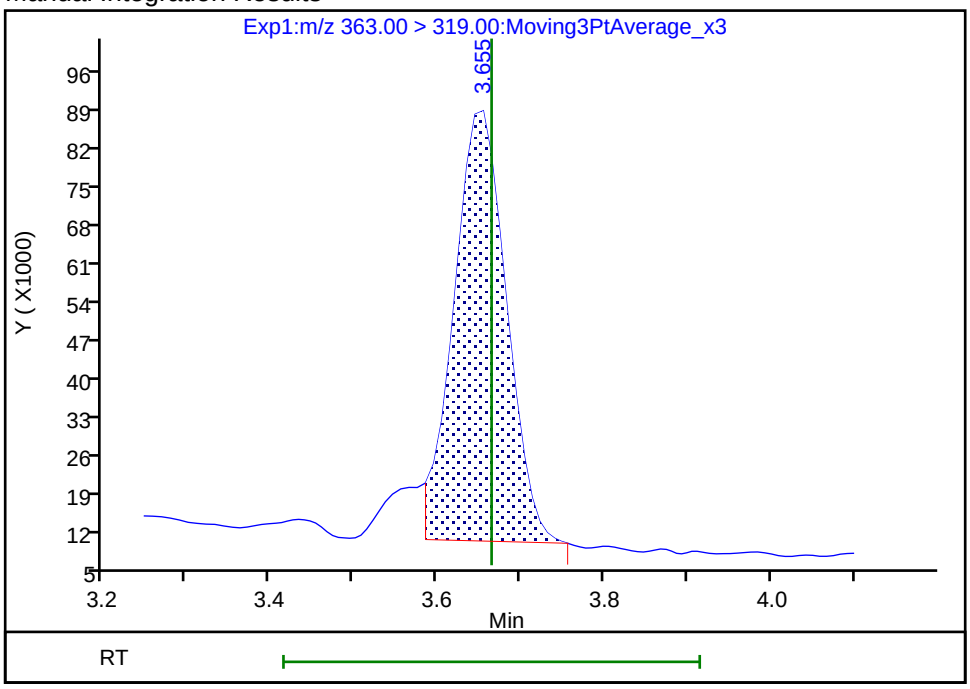
Processing Integration Results

RT: 3.65
Area: 499658
Amount: 0.179903
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 340496
Amount: 0.122597
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

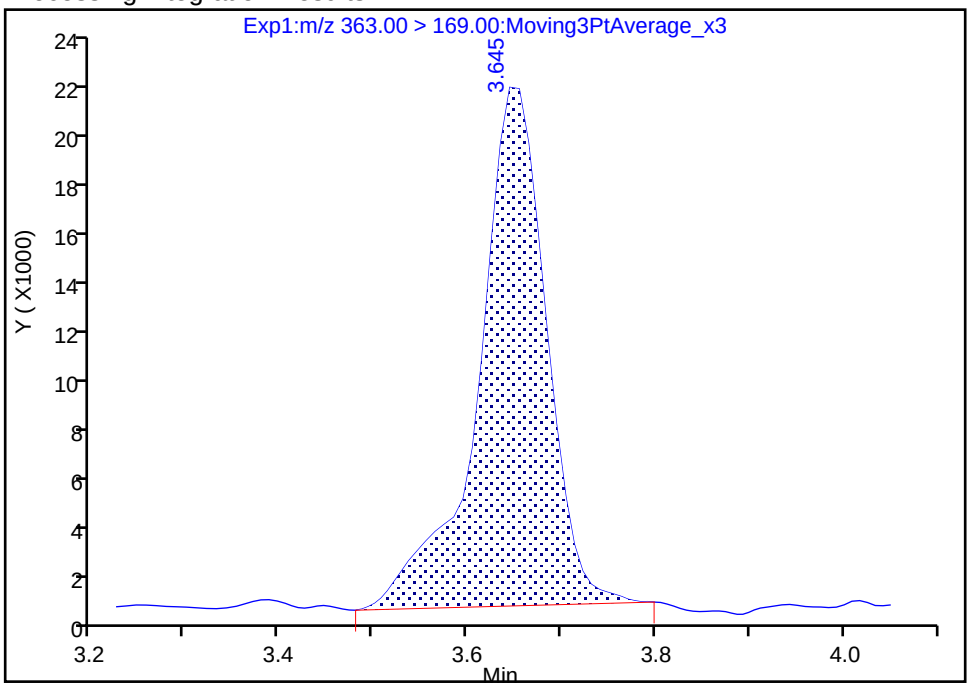
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

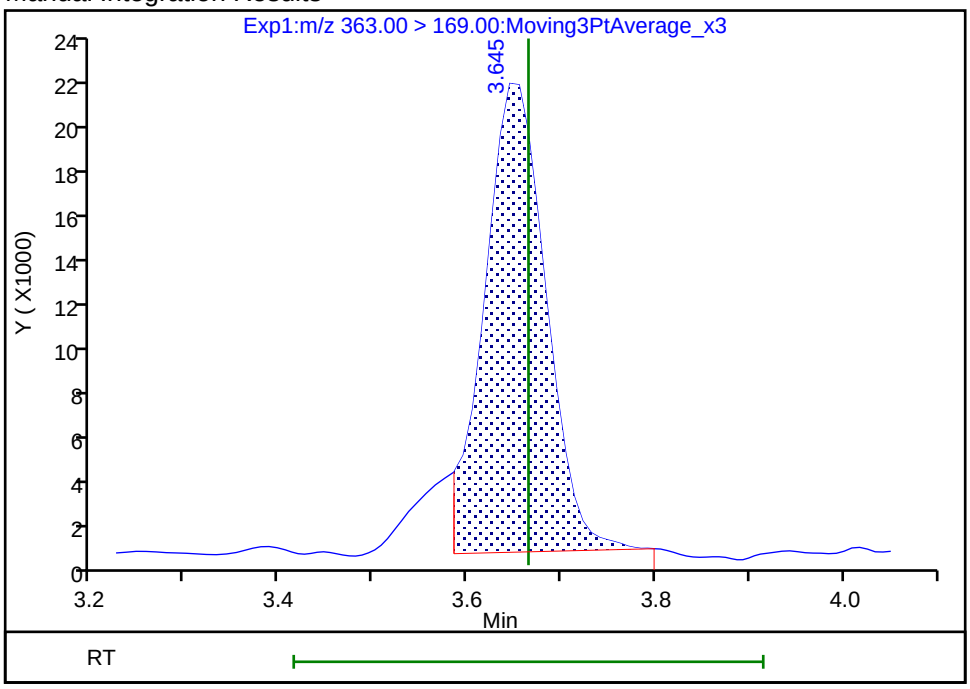
Processing Integration Results

RT: 3.64
Area: 104953
Amount: 0.179903
Amount Units: ng/ml



Manual Integration Results

RT: 3.64
Area: 94404
Amount: 0.122597
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

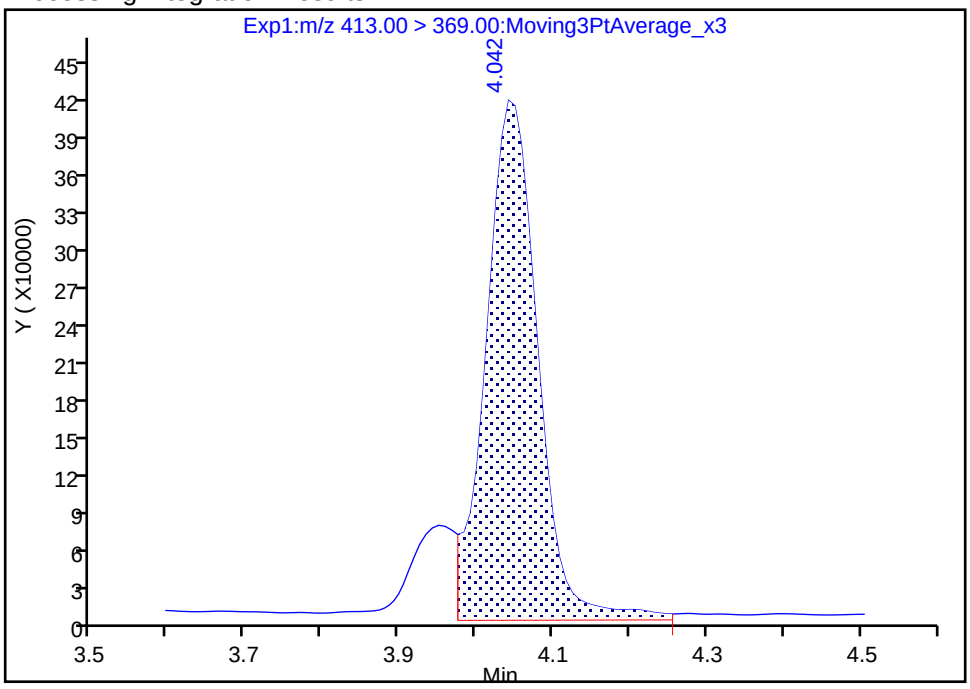
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

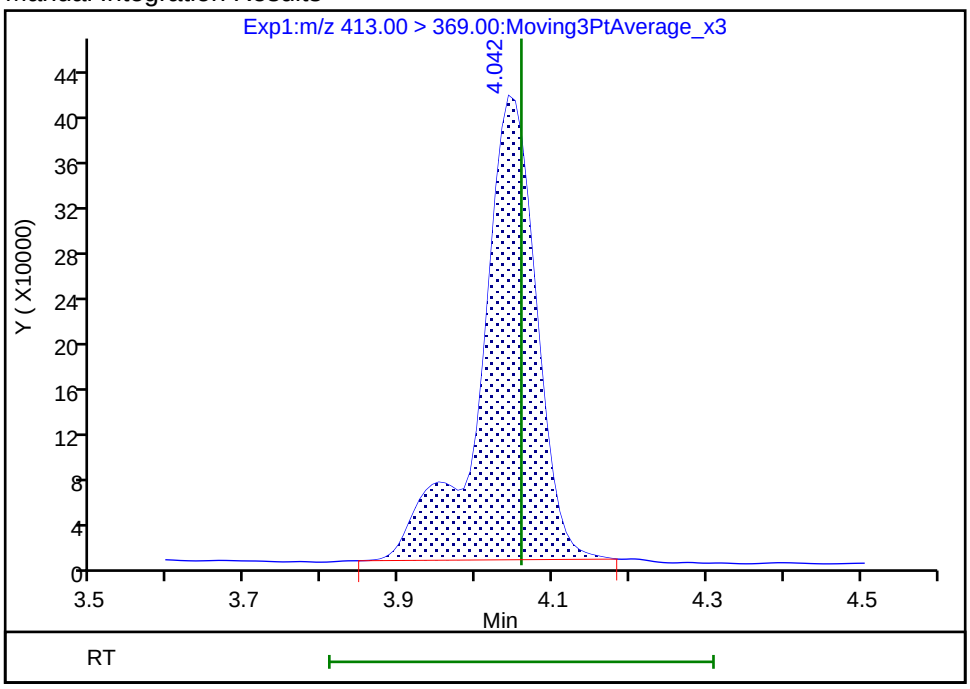
Processing Integration Results

RT: 4.04
Area: 1923914
Amount: 0.584332
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 2049962
Amount: 0.622615
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:27

Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

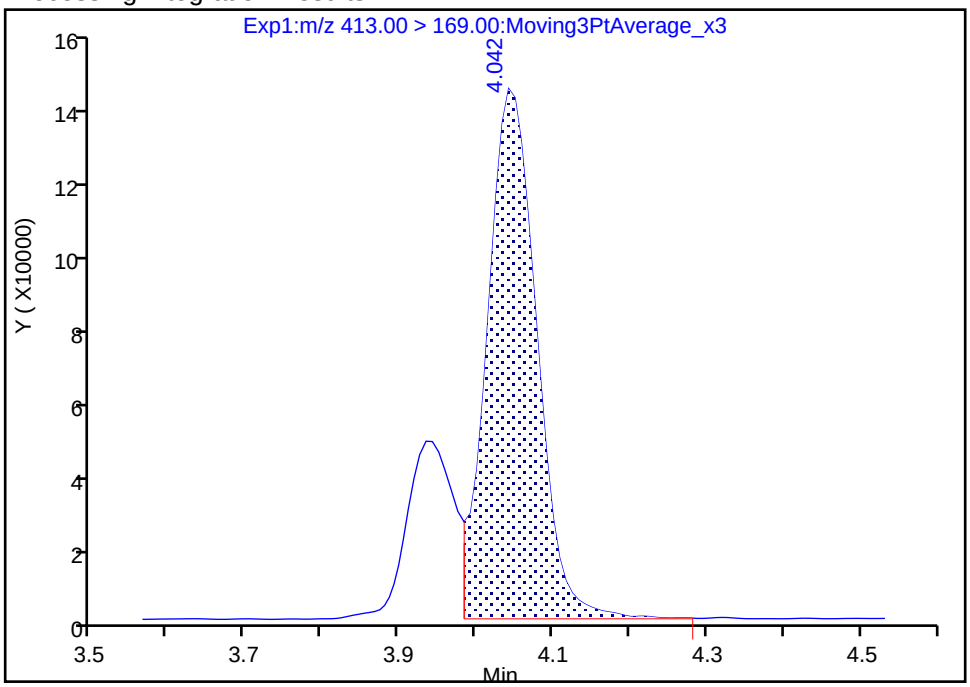
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

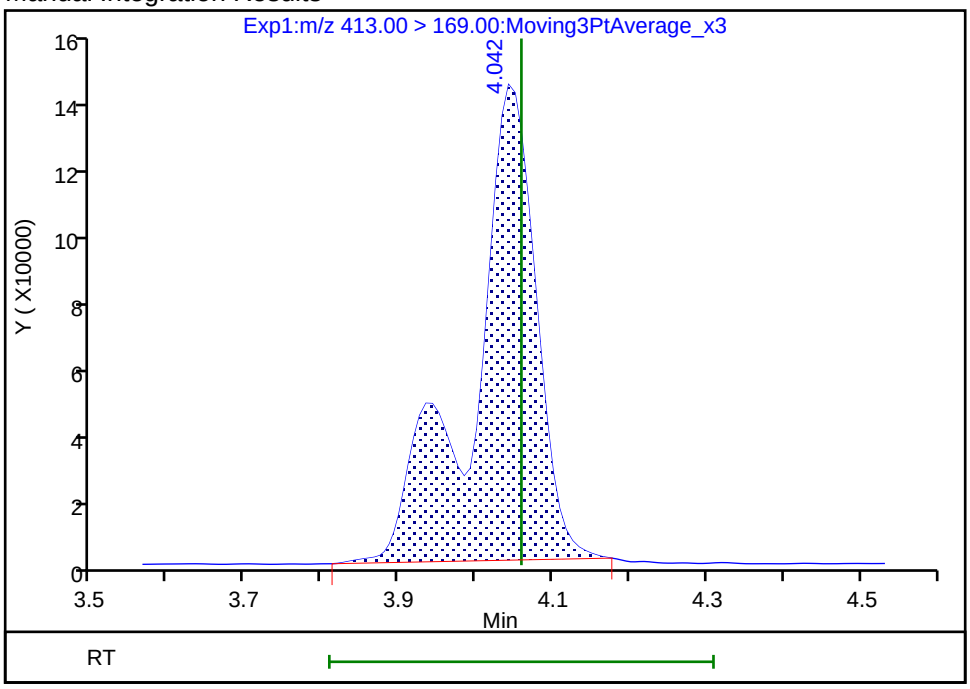
Processing Integration Results

RT: 4.04
Area: 616979
Amount: 0.584332
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 790759
Amount: 0.622615
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:30
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

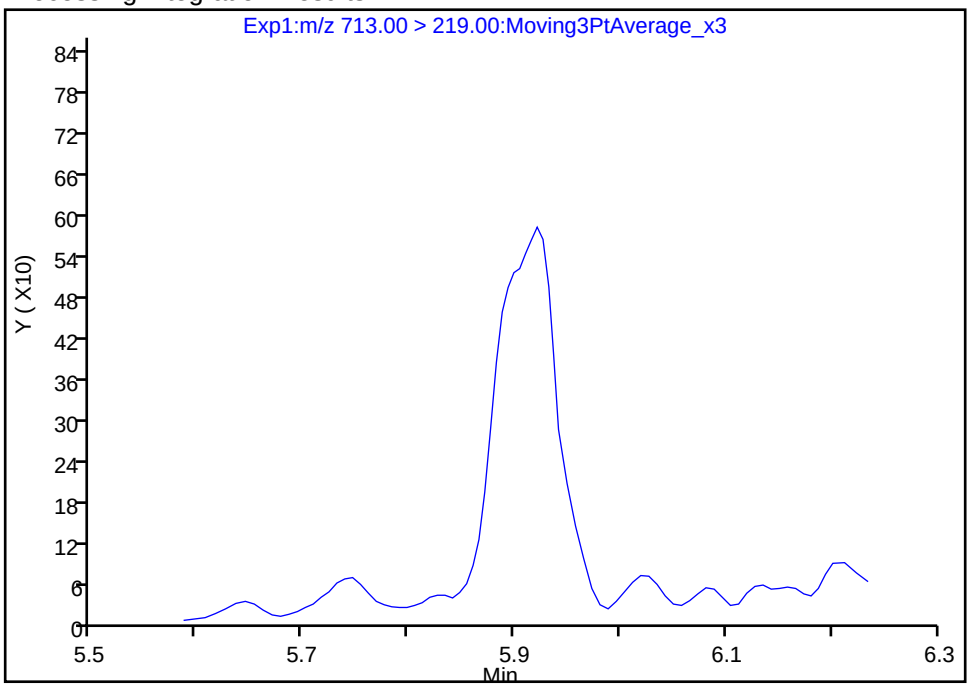
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

62 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

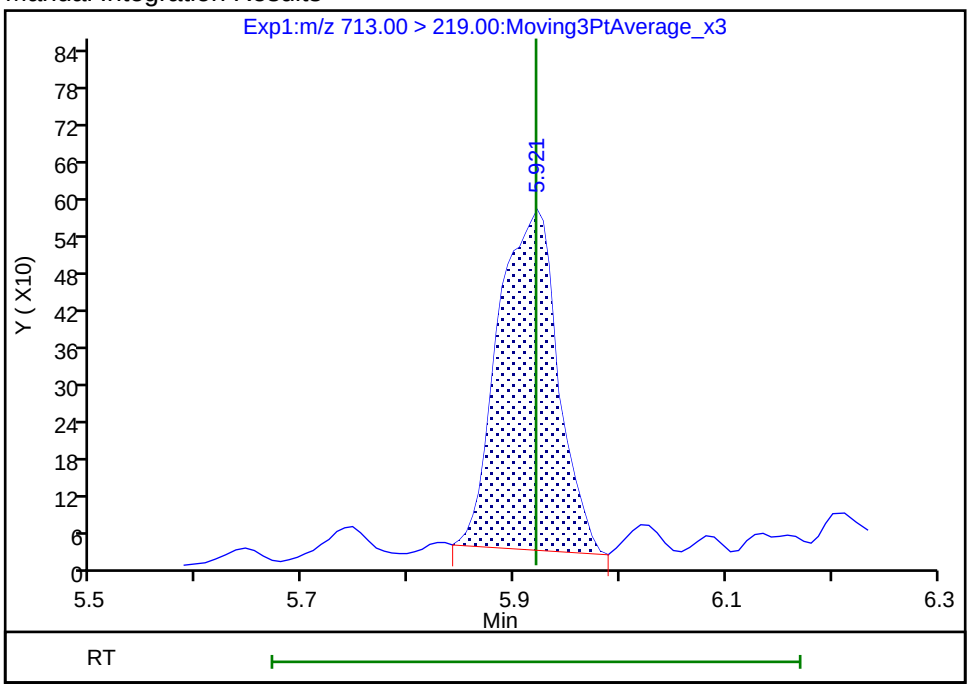
Not Detected
Expected RT: 5.92

Processing Integration Results



Manual Integration Results

RT: 5.92
Area: 2170
Amount: 0.005910
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:16:04
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

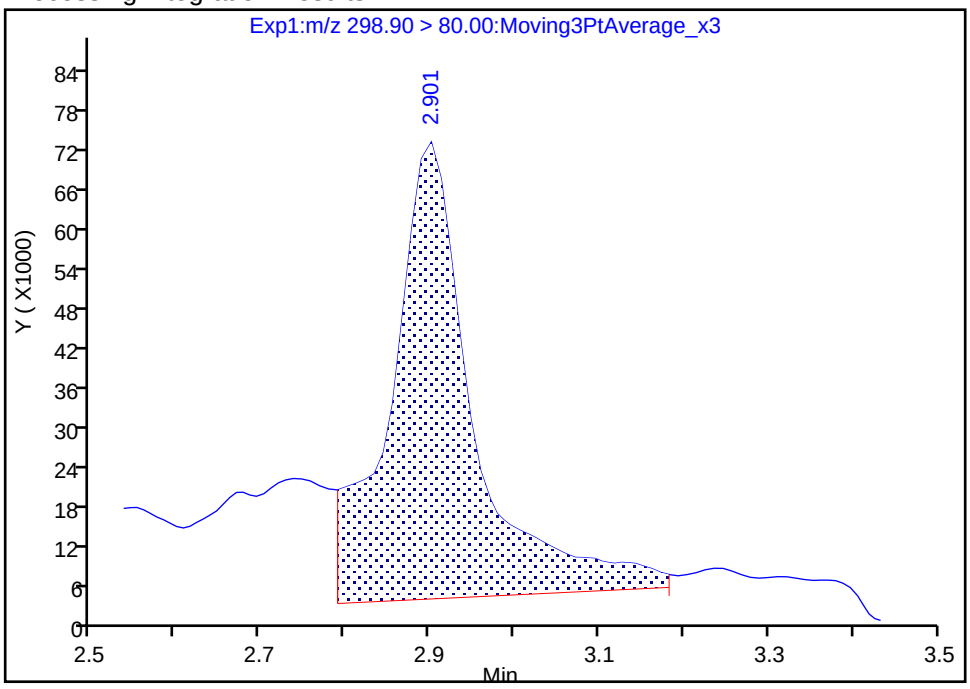
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

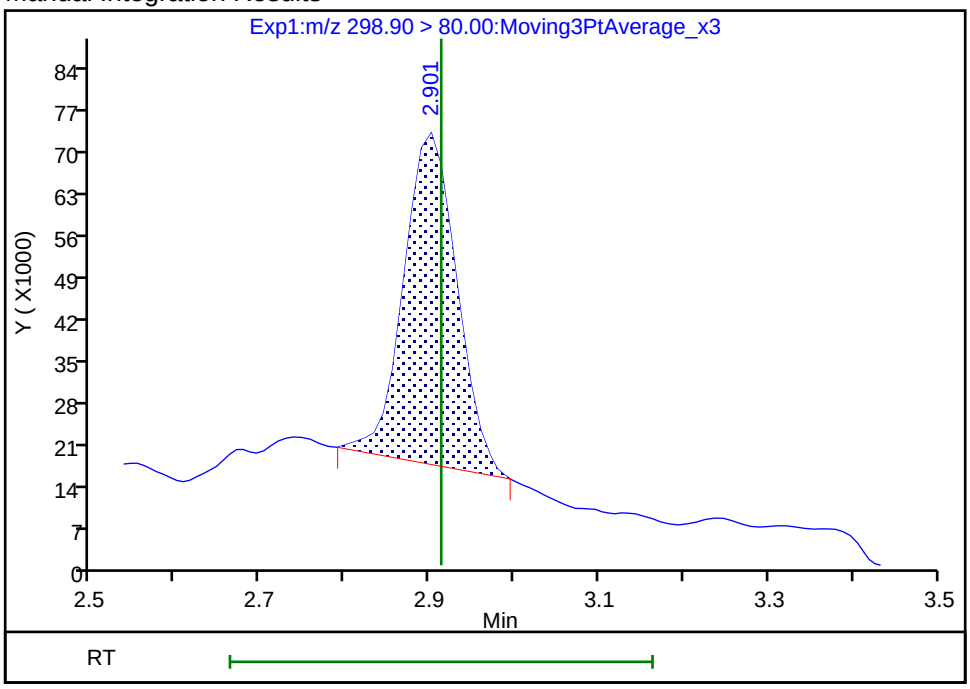
Processing Integration Results

RT: 2.90
Area: 479116
Amount: 0.157246
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 244322
Amount: 0.080187
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

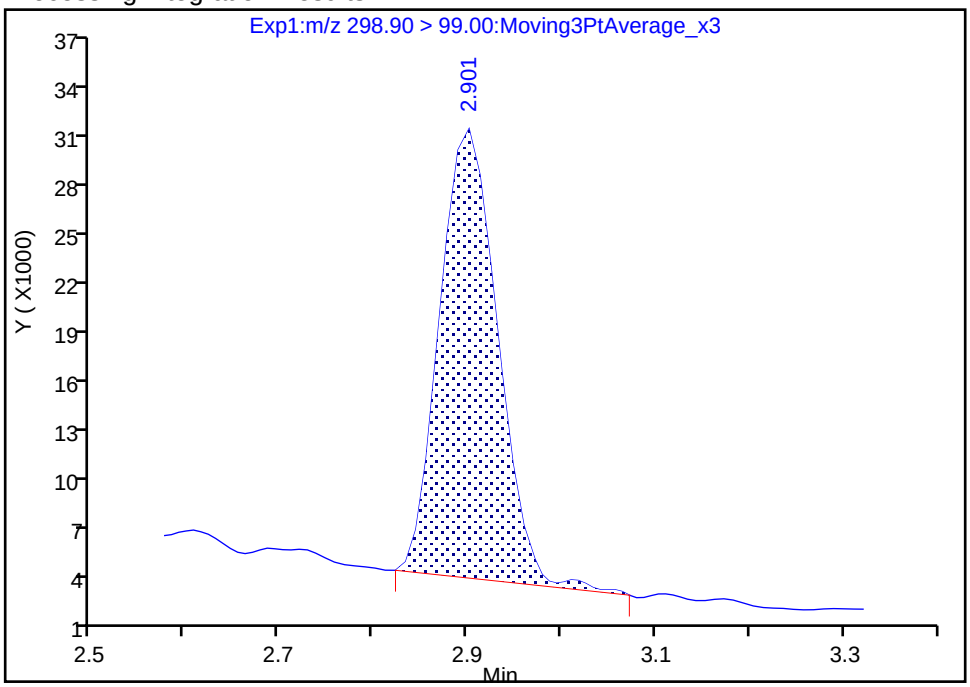
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

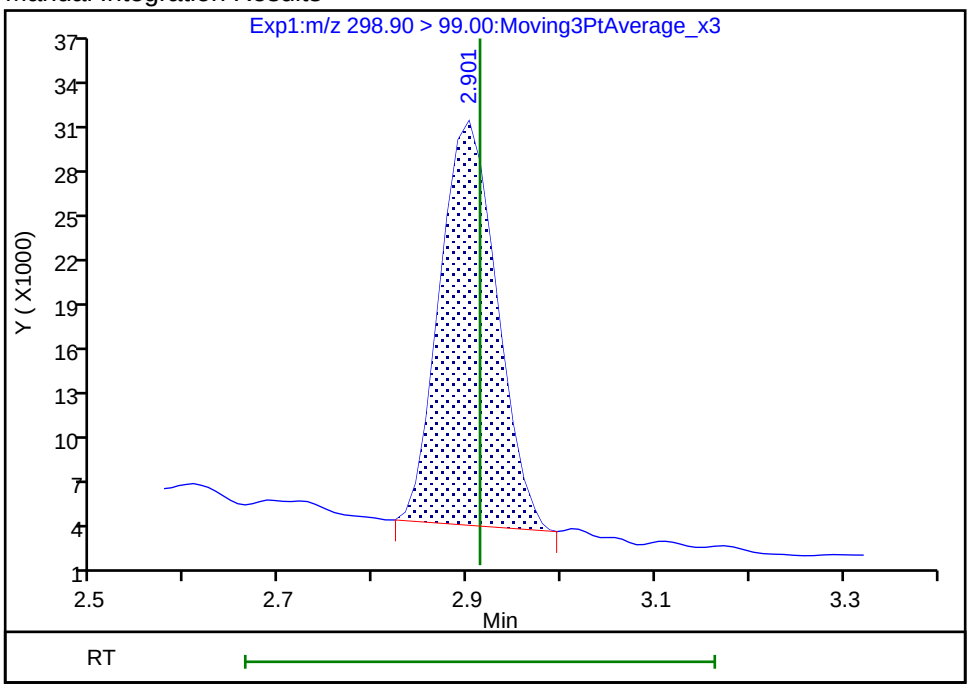
Processing Integration Results

RT: 2.90
Area: 117728
Amount: 0.157246
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 115005
Amount: 0.080187
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:14:44
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

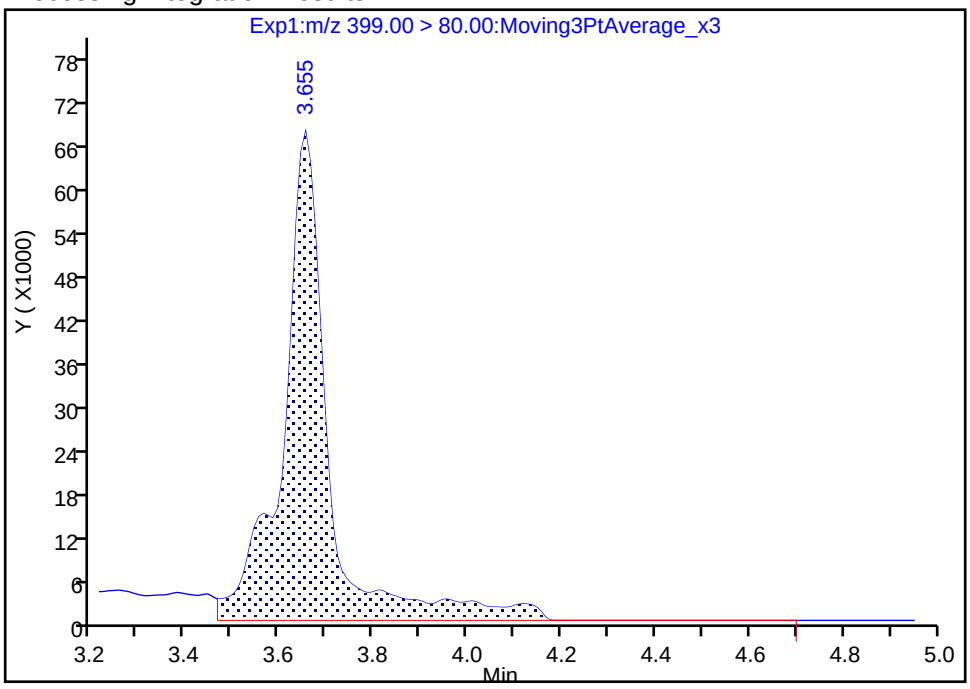
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

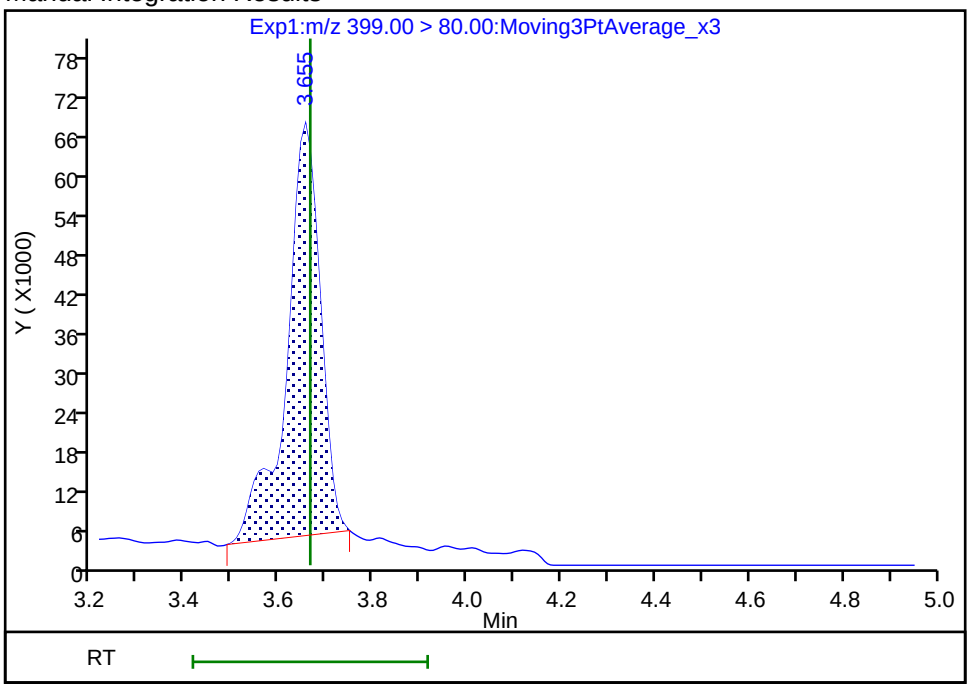
Processing Integration Results

RT: 3.65
Area: 453656
Amount: 0.189148
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 314579
Amount: 0.131161
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

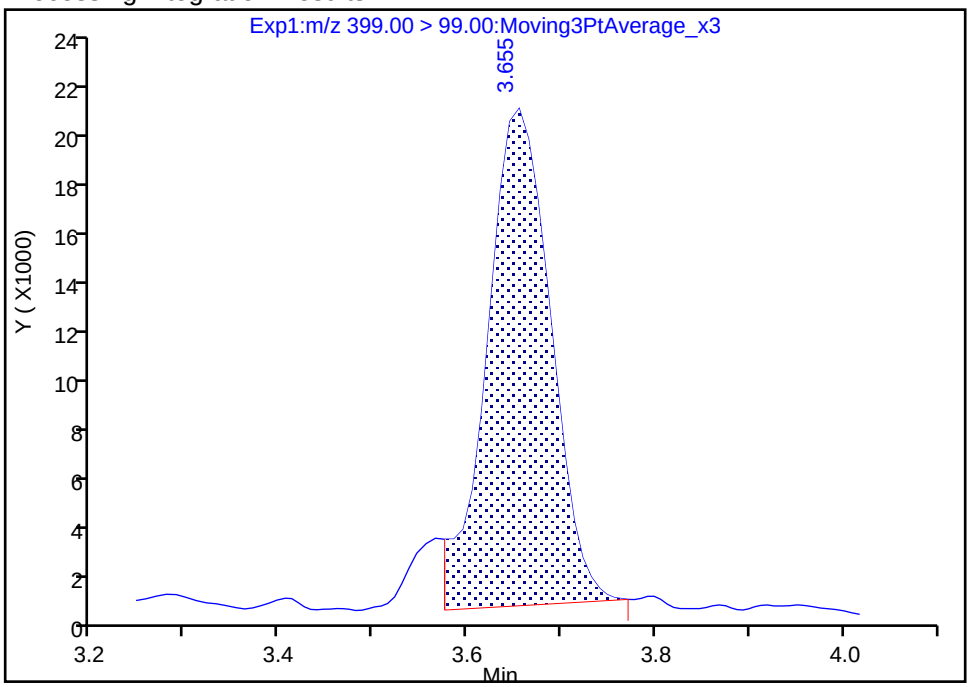
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

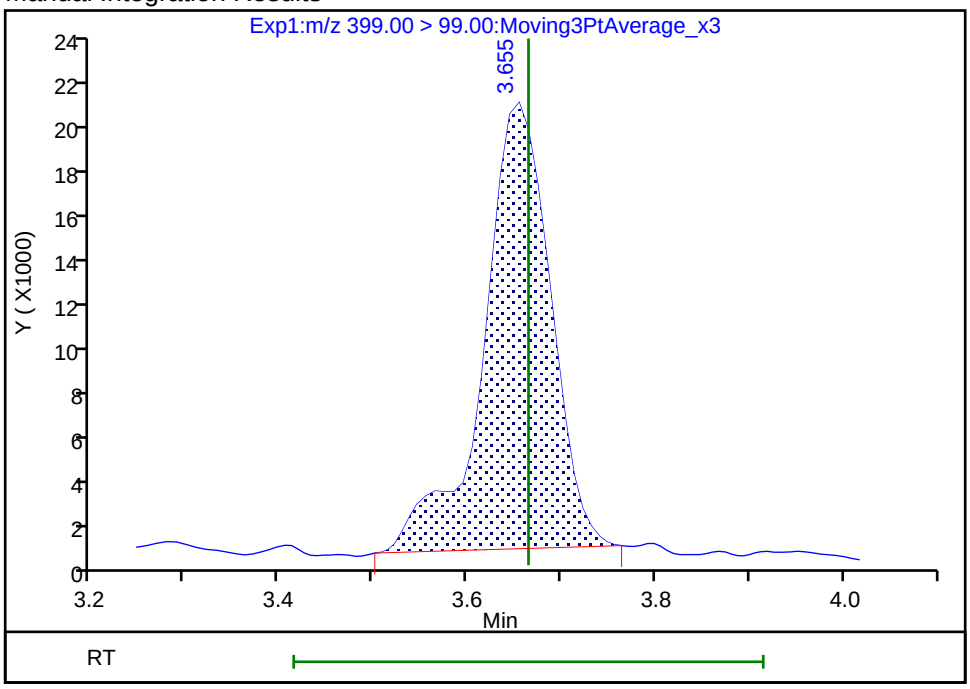
Processing Integration Results

RT: 3.65
Area: 93902
Amount: 0.189148
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 98726
Amount: 0.131161
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

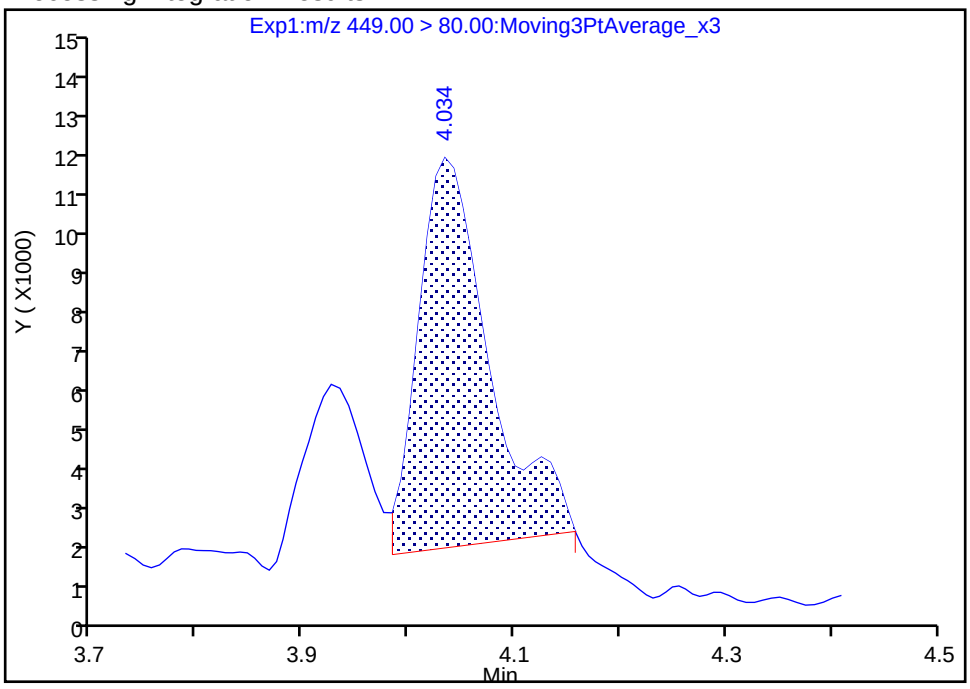
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

22 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

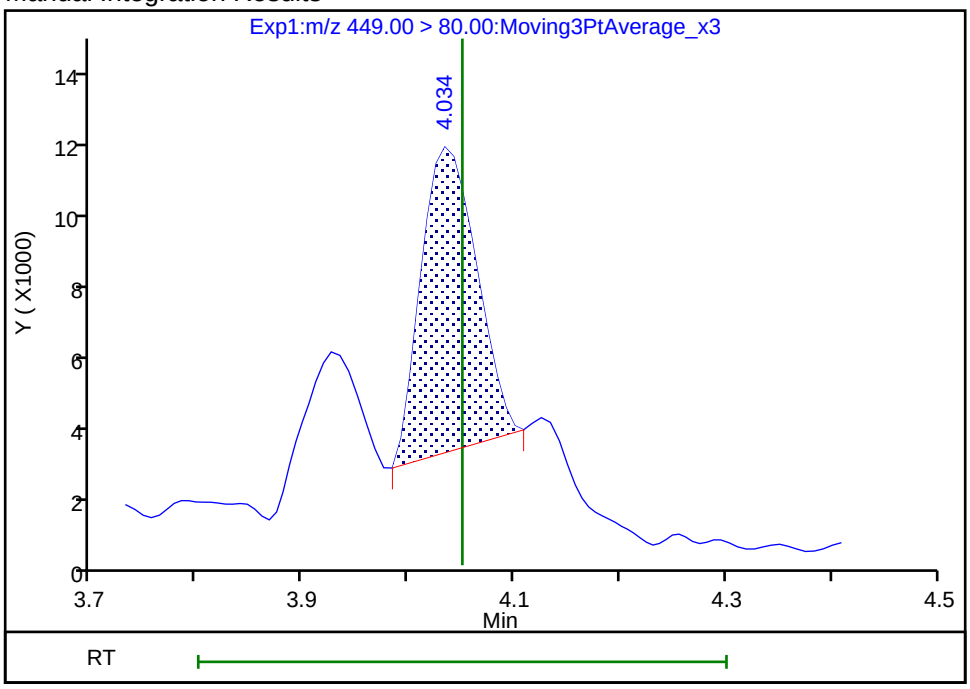
Processing Integration Results

RT: 4.03
Area: 43113
Amount: 0.026411
Amount Units: ng/ml



Manual Integration Results

RT: 4.03
Area: 29410
Amount: 0.018016
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:18

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

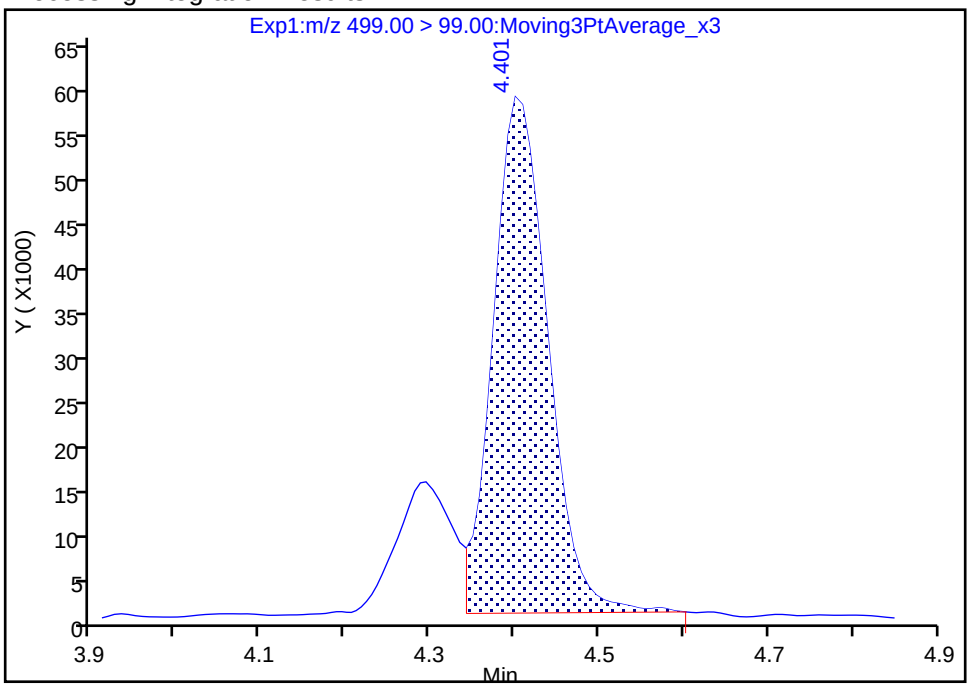
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

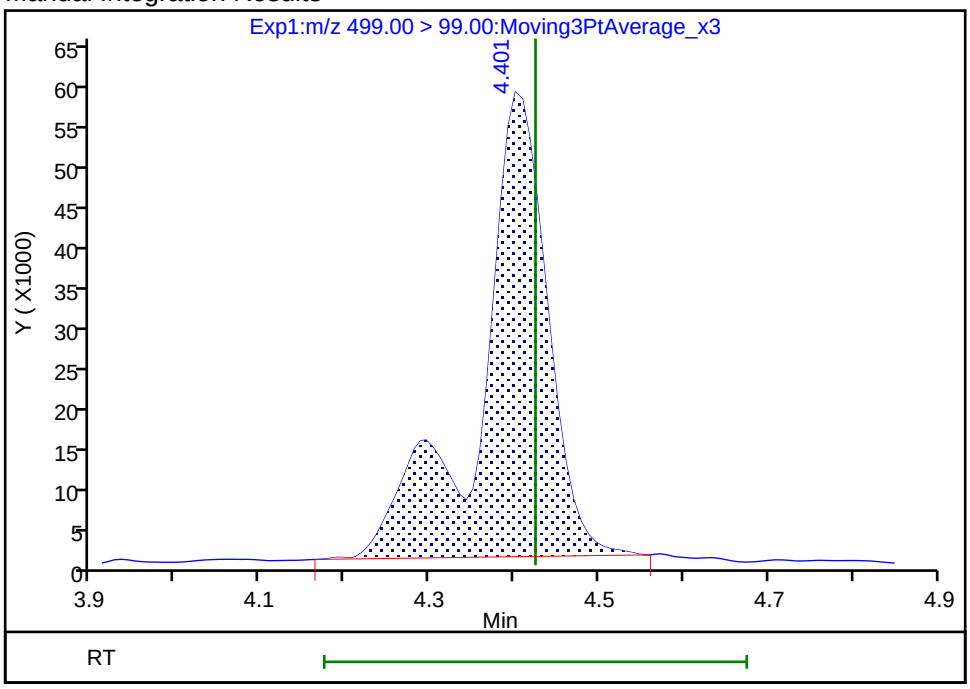
Processing Integration Results

RT: 4.40
Area: 259236
Amount: 1.124582
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 321763
Amount: 1.124582
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:36
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

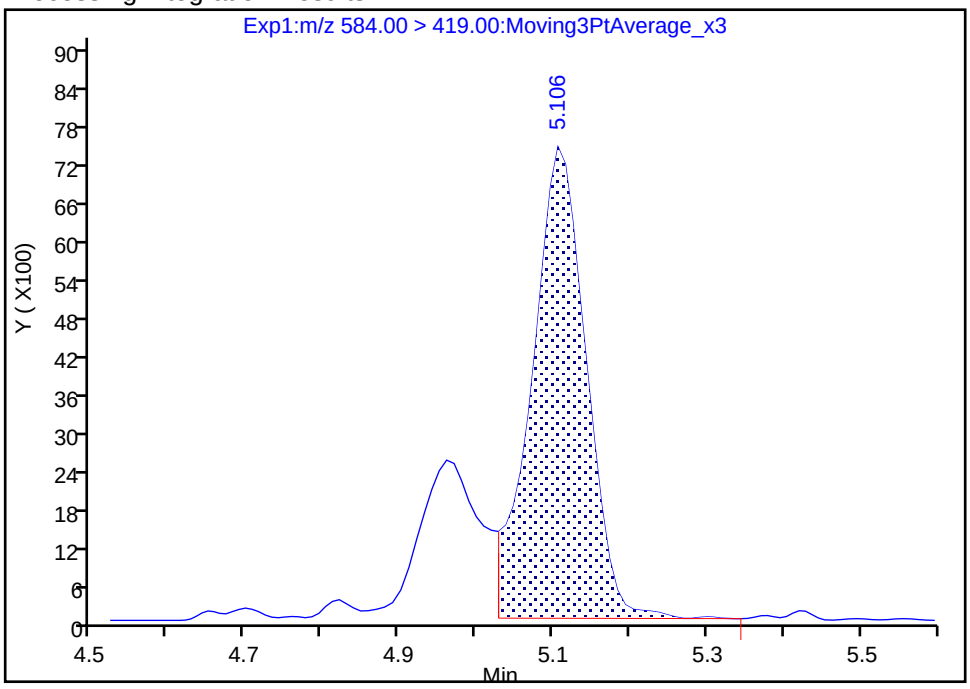
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_066.d				
Injection Date:	10-Sep-2020 19:13:45	Instrument ID:	A13		
Lims ID:	460-217659-D-5-A	Lab Sample ID:	320-217659-5		
Client ID:	MW-214				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	39	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

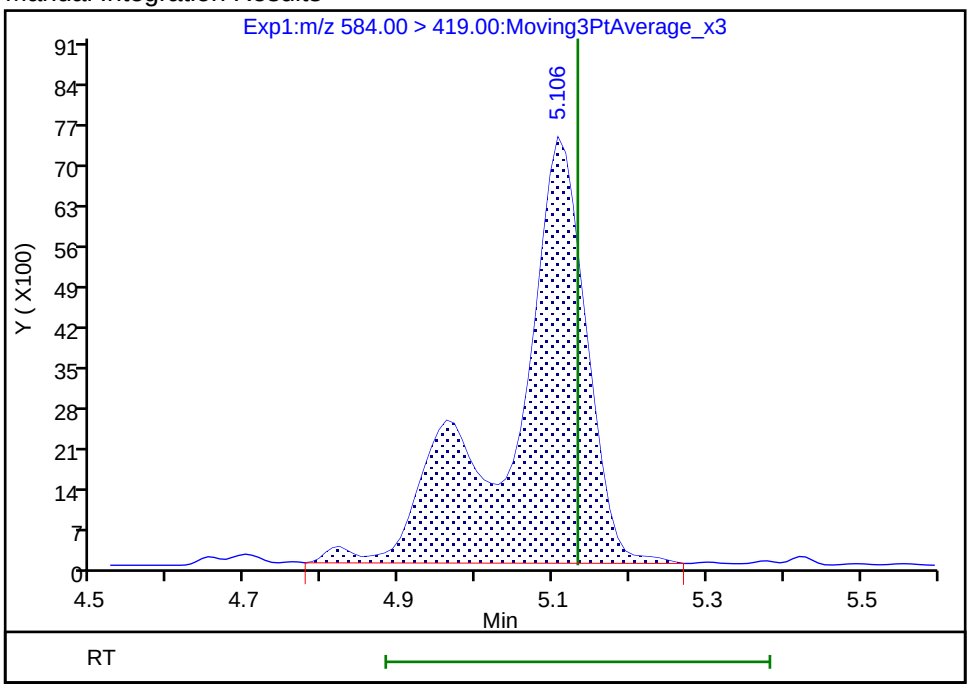
Processing Integration Results

RT: 5.11
Area: 36192
Amount: 0.025770
Amount Units: ng/ml



Manual Integration Results

RT: 5.11
Area: 50354
Amount: 0.035853
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:15:50

Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-216 Lab Sample ID: 460-217659-6

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_067.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 13:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 272.8(mL) Date Analyzed: 09/10/2020 19:23

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.37	B	1.83	0.32
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.52		1.83	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	2.62		1.83	0.53
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.88		1.83	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	9.39		1.83	0.78
375-95-1	Perfluorononanoic acid (PFNA)	0.73	J	1.83	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.34	J	1.83	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.01	U	1.83	1.01
307-55-1	Perfluorododecanoic acid (PFDoA)	0.50	U	1.83	0.50
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.19	U	1.83	1.19
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.83	0.27
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.19	J	1.83	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.96	B	1.83	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.17	U	1.83	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	24.8		1.83	0.49
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.29	U	1.83	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.06	J	1.83	0.32
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.84	U	18.3	2.84
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.74	U	18.3	1.74
27619-97-2	6:2 FTS	1.83	U	18.3	1.83
39108-34-4	8:2 FTS	1.83	U	18.3	1.83

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-216 Lab Sample ID: 460-217659-6

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_067.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 13:30

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 272.8(mL) Date Analyzed: 09/10/2020 19:23

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	34		25-150
STL01893	13C5 PFPeA	37		25-150
STL00993	13C2 PFHxA	43		25-150
STL01892	13C4 PFHpA	43		25-150
STL00990	13C4 PFOA	41		25-150
STL00995	13C5 PFNA	44		25-150
STL00996	13C2 PFDA	42		25-150
STL00997	13C2 PFUnA	35		25-150
STL00998	13C2 PFDoA	31		25-150
STL02116	13C2 PFTeDA	28		25-150
STL02337	13C3 PFBS	44		25-150
STL00994	18O2 PFHxS	48		25-150
STL00991	13C4 PFOS	43		25-150
STL01056	13C8 FOSA	39		25-150
STL02118	d3-NMeFOSAA	35		25-150
STL02117	d5-NEtFOSAA	38		25-150
STL02279	M2-6:2 FTS	59		25-150
STL02280	M2-8:2 FTS	55		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d
Lims ID: 460-217659-D-6-A
Client ID: MW-216
Sample Type: Client
Inject. Date: 10-Sep-2020 19:23:10 ALS Bottle#: 40 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-6-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:23:17 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 10:23:17
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.609	2855245	0.8486		33.9	3157	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.475	2.482	-0.007	1.003	101119	0.1191			4.3	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.867	2.867	-0.001	0.708	2415923	0.9212		36.8	1229	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.867	2.867	-0.001	1.000	68309	0.0688			0.7	M
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.716	3390603	1.03		44.3	346	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.901	2.913	-0.012	1.000	46112	0.0323	Target=2.29		1.9	M
298.90 > 99.00	2.901	2.913	-0.012	1.000	22933		2.01(1.15-3.44)		1.8	M
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.247	3.258	-0.011	1.000	93123	0.0716	Target=13.52		1.5	M
313.00 > 119.00	3.258	3.258	0.0	1.003	7979		11.67(6.76-20.28)		2.3	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.802	3500131	1.08		43.2	1304	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	2437760	1.13		47.8	1996	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.655	3.665	-0.010	1.000	70735	0.0514	Target=3.87		2.3	M
363.00 > 169.00	3.655	3.665	-0.010	1.000	18894		3.74(1.93-5.80)		6.8	M
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	92620	0.0808	Target=3.08		11.8	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	28090		3.30(1.54-4.62)		7.9	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	3403337	1.07		42.7	2665	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.034	4.042	-0.008	0.996	1305898	1.40		59.1	366	
21 6:2 FTS										
427.00 > 407.00	4.034	4.042	-0.008	1.000	18186	0.0137			11.7	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.000	4024643	1.03		41.3	4161	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.051	4.059	-0.008	1.000	422072	0.2563	Target=2.99		20.5	M
413.00 > 169.00	4.051	4.059	-0.008	1.000	160630		2.63(1.50-4.49)		82.3	M
* 25 13C2 PFOA										
415.00 > 370.00	4.051	4.059	-0.008		9896975	2.50			4297	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.409	4.425	-0.016	1.000	464478	0.6763	Target=4.13		91.1	M
499.00 > 99.00	4.409	4.425	-0.016	1.000	102425		4.53(2.06-6.19)		52.3	M
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.089	1580802	1.03		43.0	522	
30 Perfluorononanoic acid										M
463.00 > 419.00	4.426	4.433	-0.007	1.000	30104	0.0199	Target=7.70		4.3	M
463.00 > 169.00	4.418	4.433	-0.015	0.998	4048		7.44(3.85-11.55)		8.0	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.093	3974007	1.10		44.1	3356	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.169	2137148	0.9666		38.7	3069	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	23205	0.0289			10.4	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	4550371	1.04		41.7	4932	
36 Perfluorodecanoic acid										M
513.00 > 469.00	4.777	4.793	-0.016	0.998	15014	0.009202	Target=10.40		2.9	M
513.00 > 169.00	4.777	4.793	-0.016	0.998	2343		6.41(5.20-15.61)		7.8	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	1609526	1.31		54.6	1381	
39 8:2 FTS										
527.00 > 507.00	4.777	4.802	-0.025	0.998	2750	0.001655			15.9	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.951	4.959	-0.008	1.222	1944781	0.8645		34.6	3088	
41 NMeFOSAA										
570.00 > 419.00	4.951	4.959	-0.008	1.000	14838	0.0237			7.6	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.261	3779936	0.8857		35.4	3751	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.115	5.123	-0.008	1.263	2045865	0.9394		37.6	1841	
48 NEtFOSA										
584.00 > 419.00	5.125	5.132	-0.007	1.002	13429	0.0212			34.8	
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.332	3530159	0.7684		30.7	3946	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 61 13C2 PFTeDA										
715.00 > 670.00	5.911	5.920	-0.009	1.459	3166109	0.6978		27.9	5516	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 10:23:18 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d

Injection Date: 10-Sep-2020 19:23:10 Instrument ID: A13

Lims ID: 460-217659-D-6-A Lab Sample ID: 320-217659-6

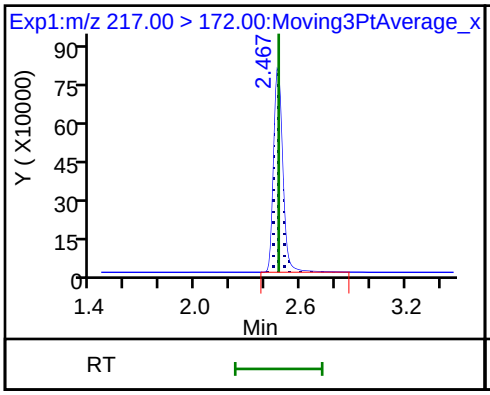
Client ID: MW-216

Operator ID: SACINSTLCMS01 ALS Bottle#: 40 Worklist Smp#: 10

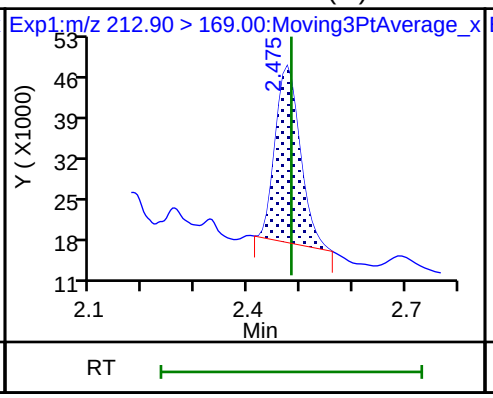
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

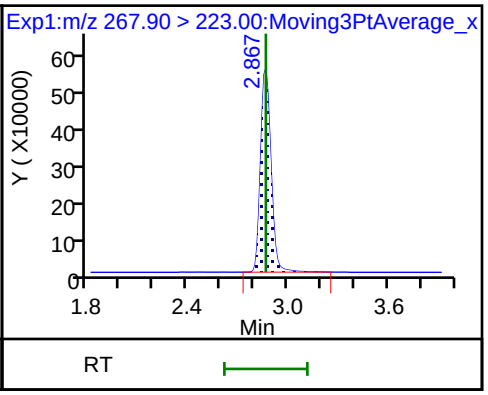
D 1 13C4 PFBA



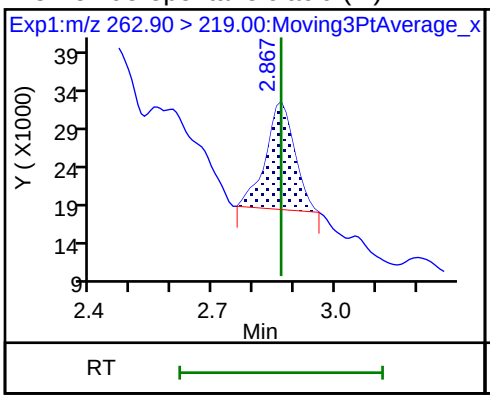
2 Perfluorobutanoic acid (M)



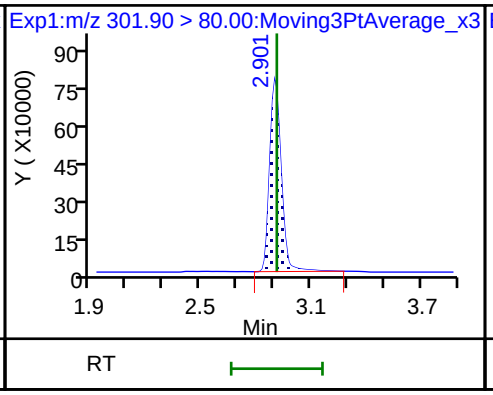
D 4 13C5 PFPeA



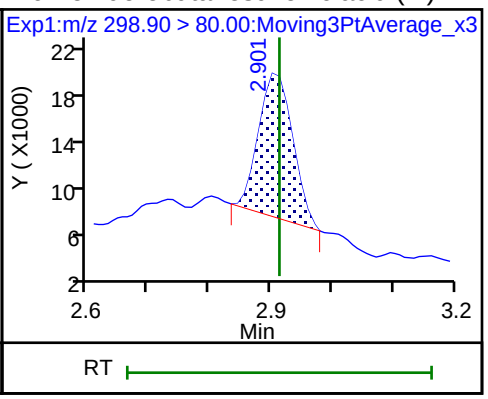
5 Perfluoropentanoic acid (M)



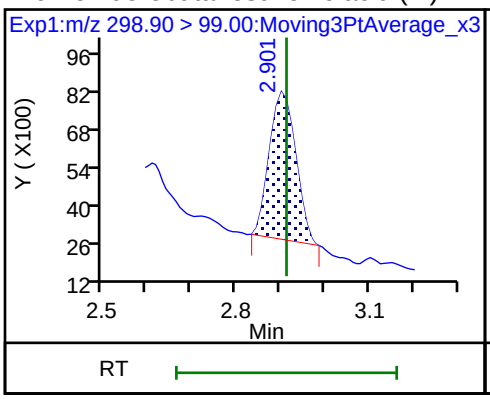
D 14 13C3 PFBS



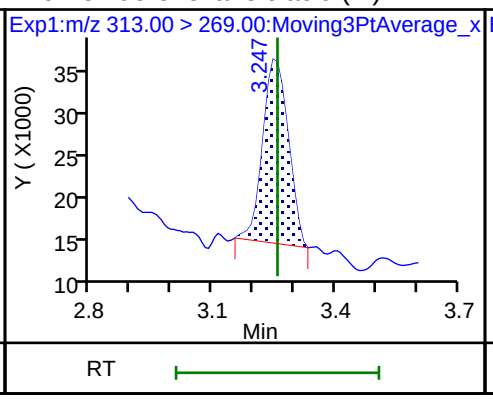
6 Perfluorobutanesulfonic acid (M)



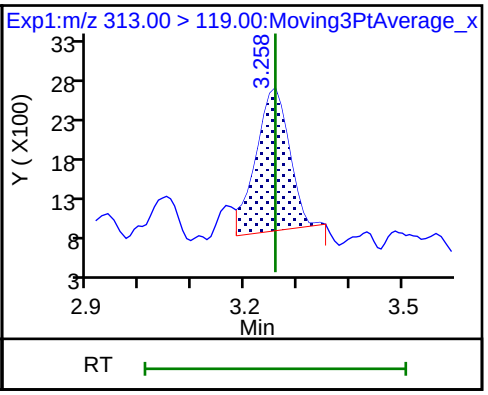
6 Perfluorobutanesulfonic acid (M)



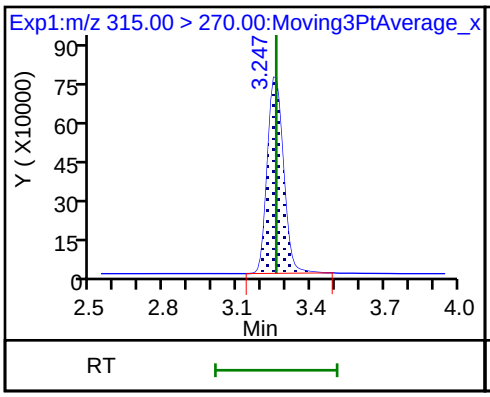
10 Perfluorohexanoic acid (M)



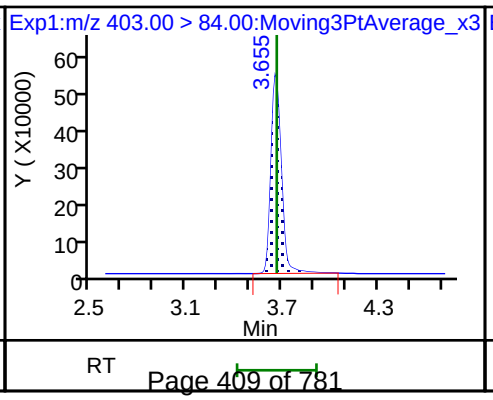
10 Perfluorohexanoic acid



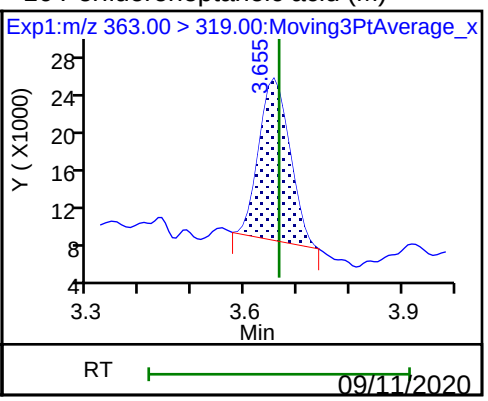
D 9 13C2 PFHxA



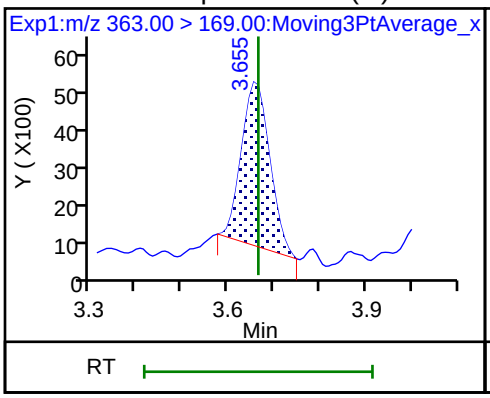
D 17 18O2 PFHxS



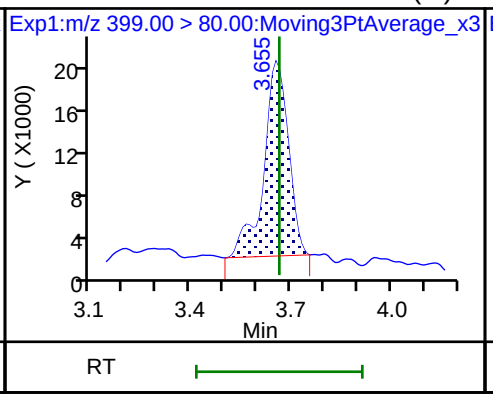
16 Perfluoroheptanoic acid (M)



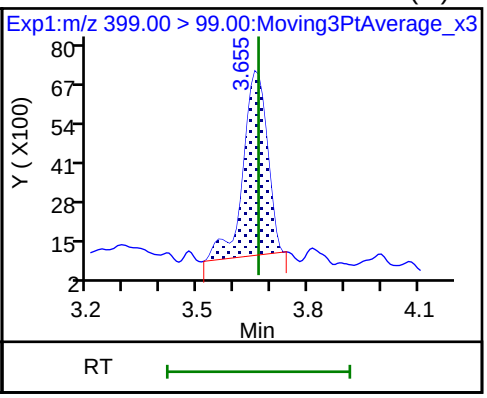
16 Perfluoroheptanoic acid (M)



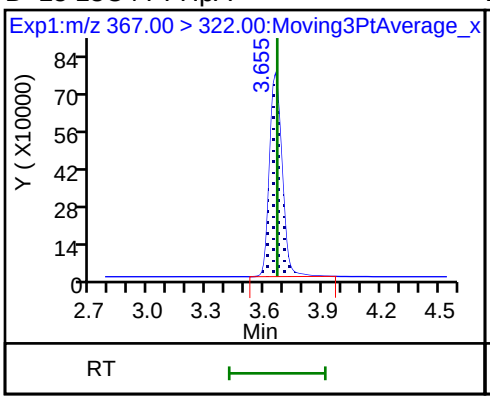
18 Perfluorohexanesulfonic acid (M)



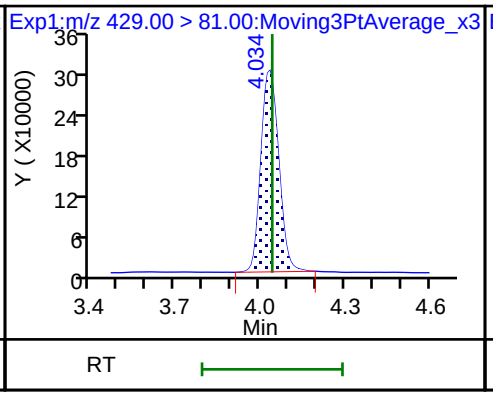
18 Perfluorohexanesulfonic acid (M)



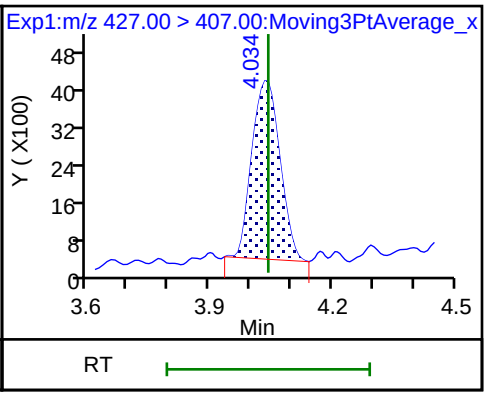
D 15 13C4 PFHpA



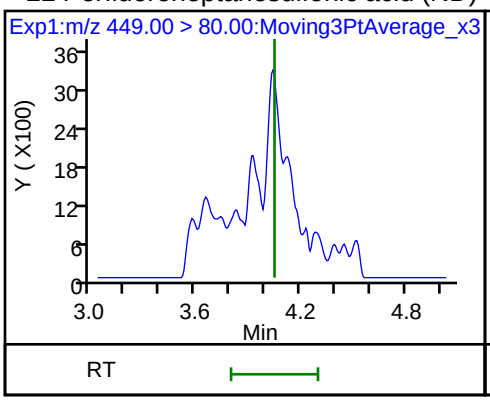
D 20 M2-6:2 FTS



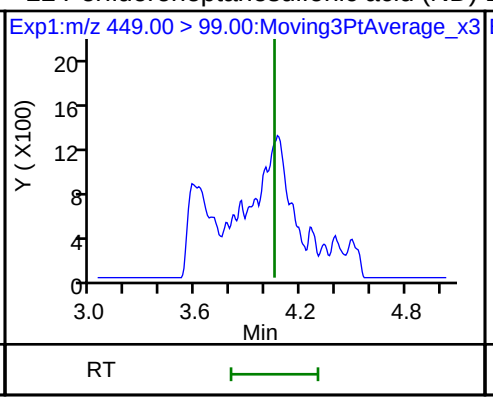
21 6:2 FTS



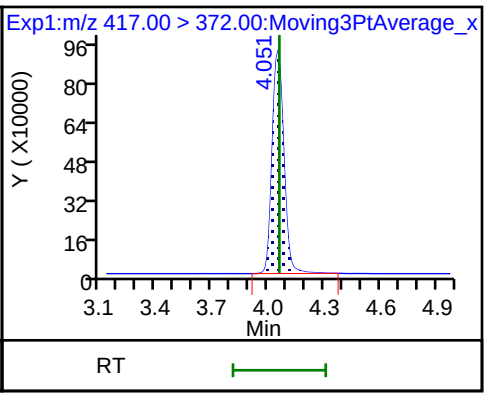
22 Perfluoroheptanesulfonic acid (ND)



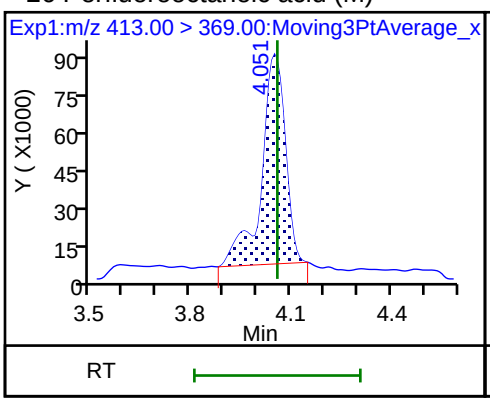
22 Perfluoroheptanesulfonic acid (ND)



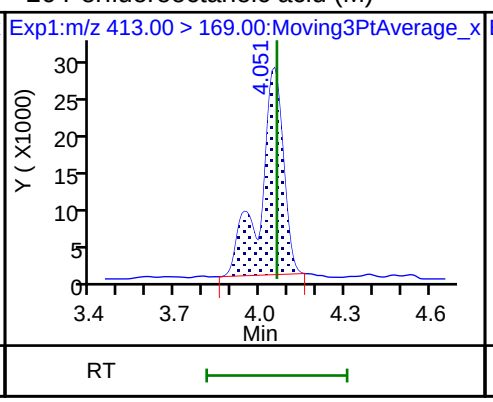
D 24 13C4 PFOA



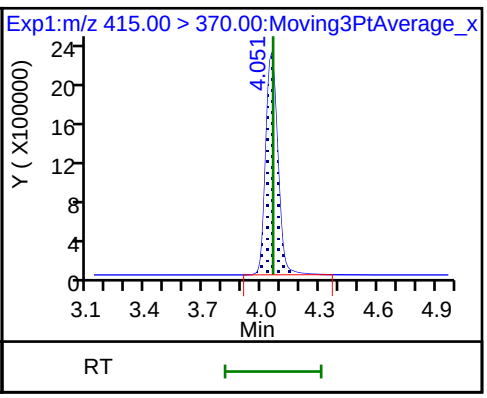
26 Perfluorooctanoic acid (M)



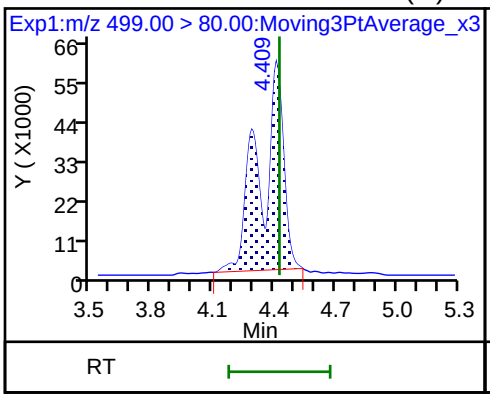
26 Perfluorooctanoic acid (M)



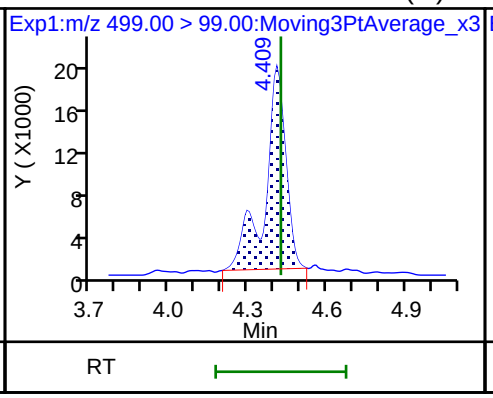
* 25 13C2 PFOA



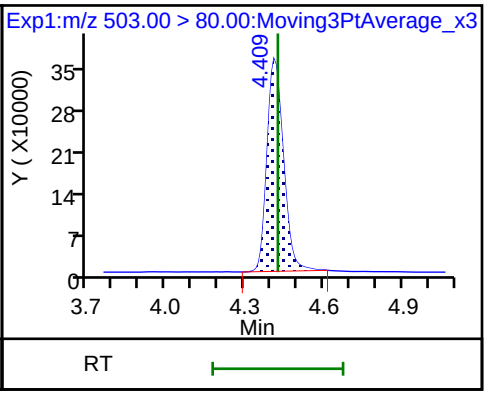
28 Perfluorooctanesulfonic acid (M)



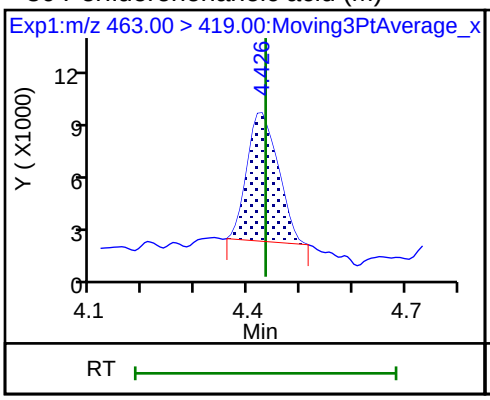
28 Perfluorooctanesulfonic acid (M)



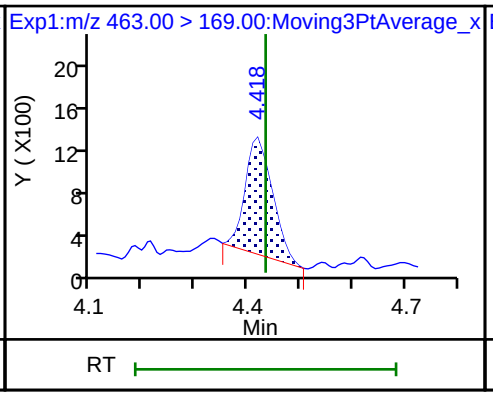
D 29 13C4 PFOS



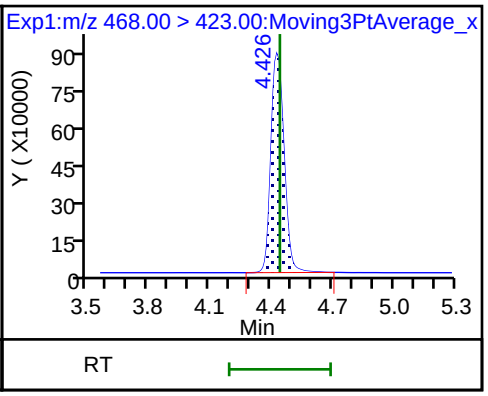
30 Perfluorononanoic acid (M)



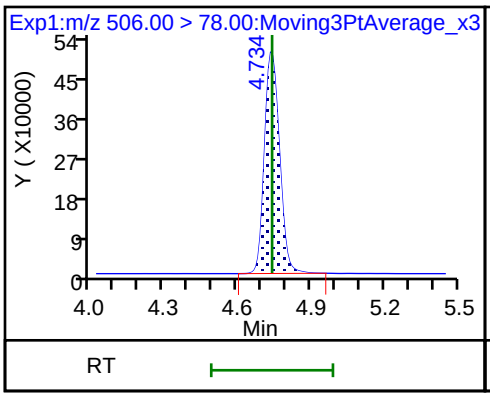
30 Perfluorononanoic acid



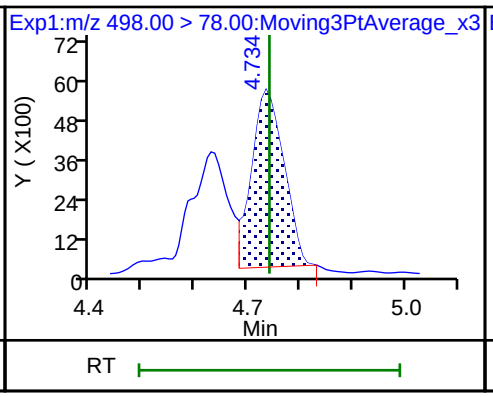
D 31 13C5 PFNA



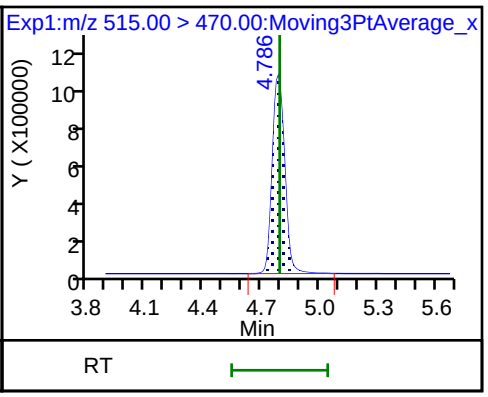
D 34 13C8 FOSA



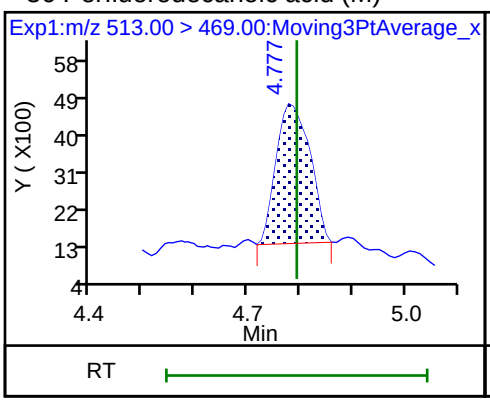
33 Perfluorooctanesulfonamide



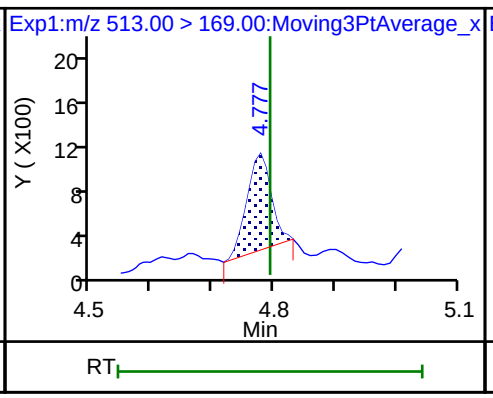
D 37 13C2 PFDA



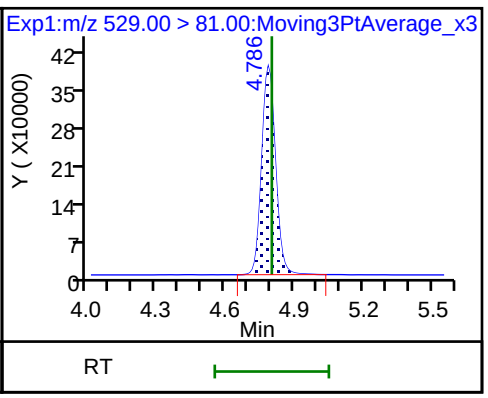
36 Perfluorodecanoic acid (M)



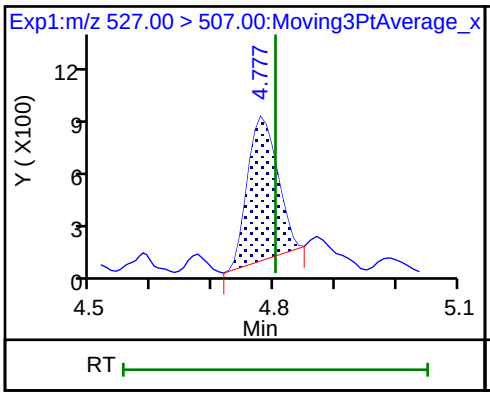
36 Perfluorodecanoic acid



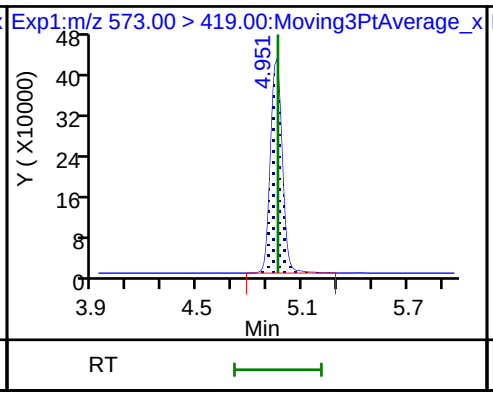
D 38 M2-8:2 FTS



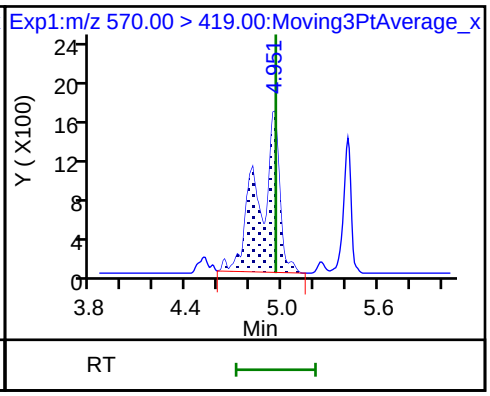
39 8:2 FTS



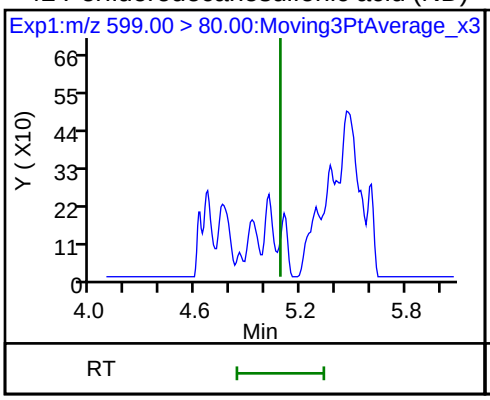
D 40 d3-NMeFOSAA



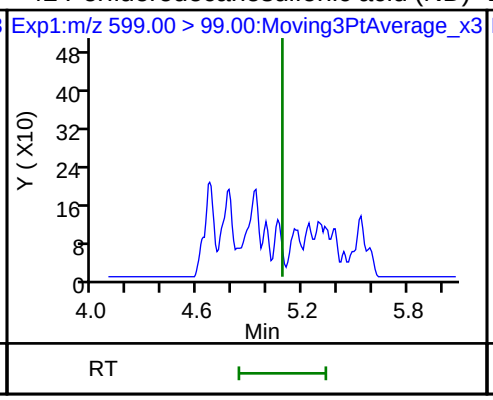
41 NMeFOSAA



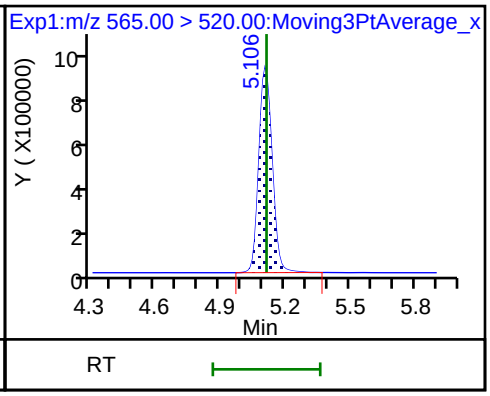
42 Perfluorodecanesulfonic acid (ND)



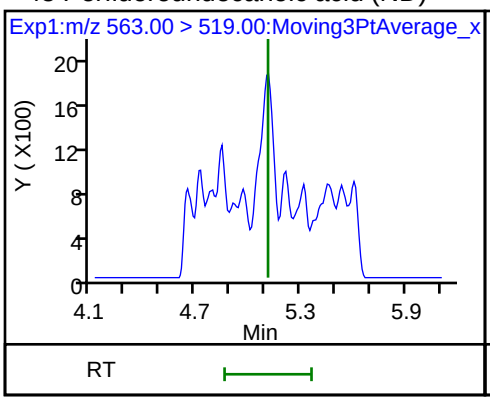
42 Perfluorodecanesulfonic acid (ND)



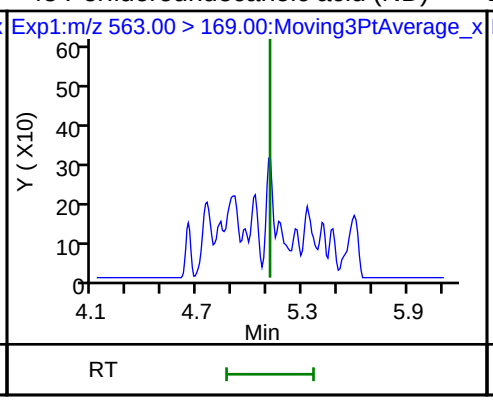
D 44 13C2 PFUnA



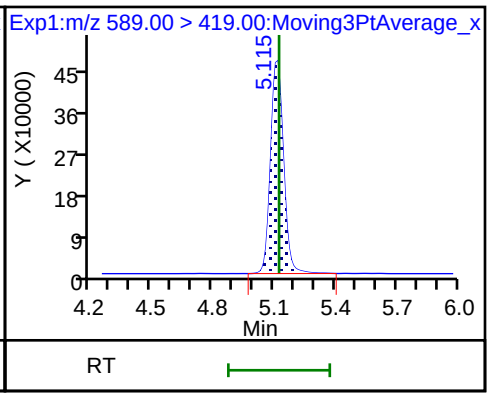
45 Perfluoroundecanoic acid (ND)



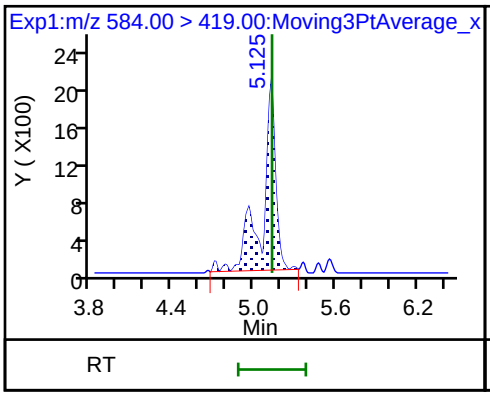
45 Perfluoroundecanoic acid (ND)



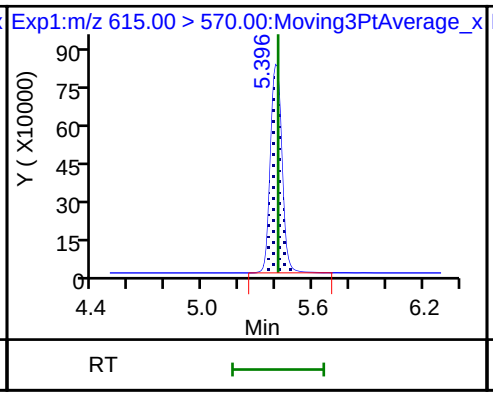
D 46 d5-NEtFOSAA



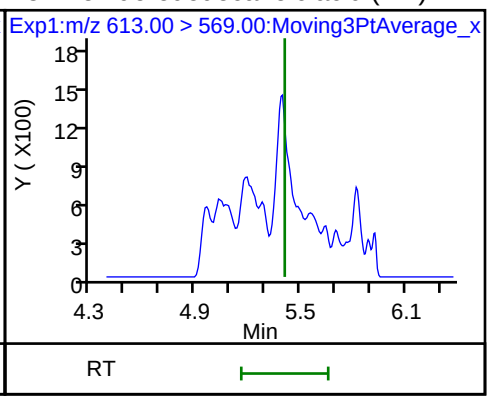
48 NEtFOSA



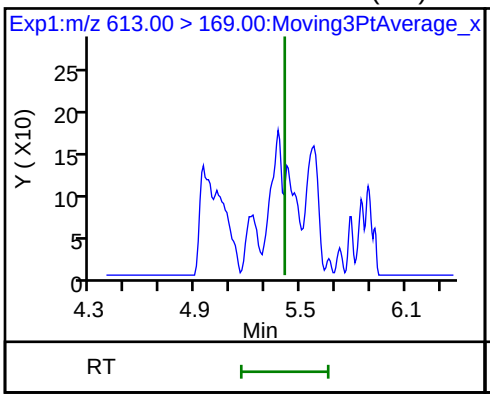
D 56 13C2 PFDoA



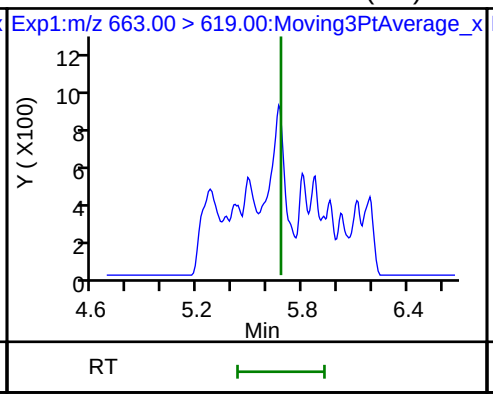
57 Perfluorododecanoic acid (ND)



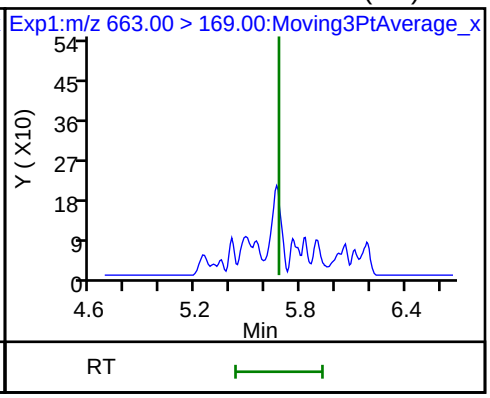
57 Perfluorododecanoic acid (ND)



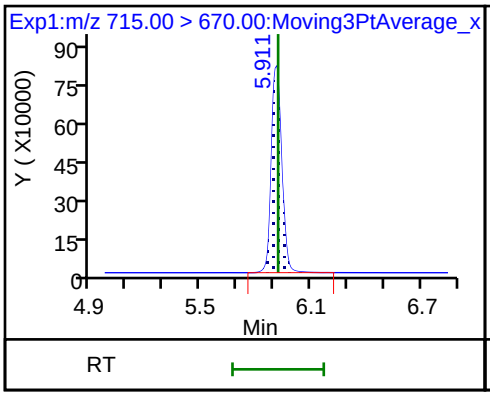
60 Perfluorotridecanoic acid (ND)



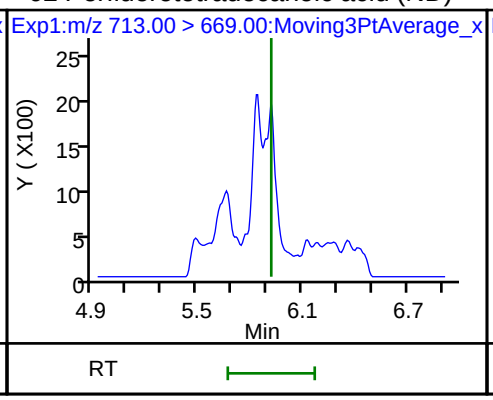
60 Perfluorotridecanoic acid (ND)



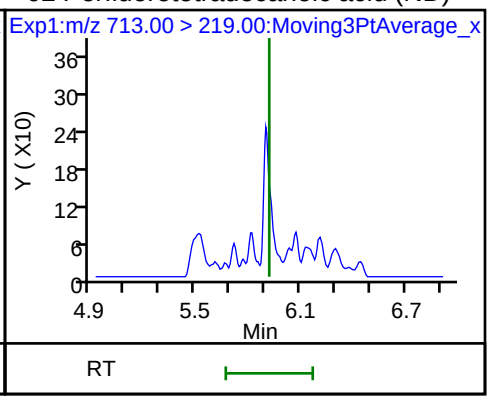
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

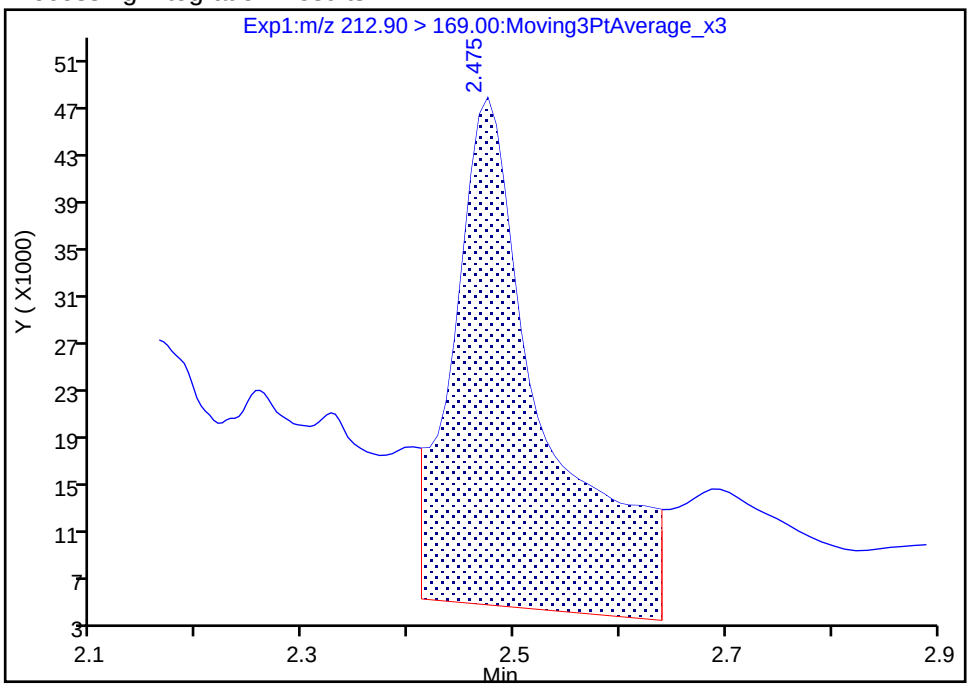
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

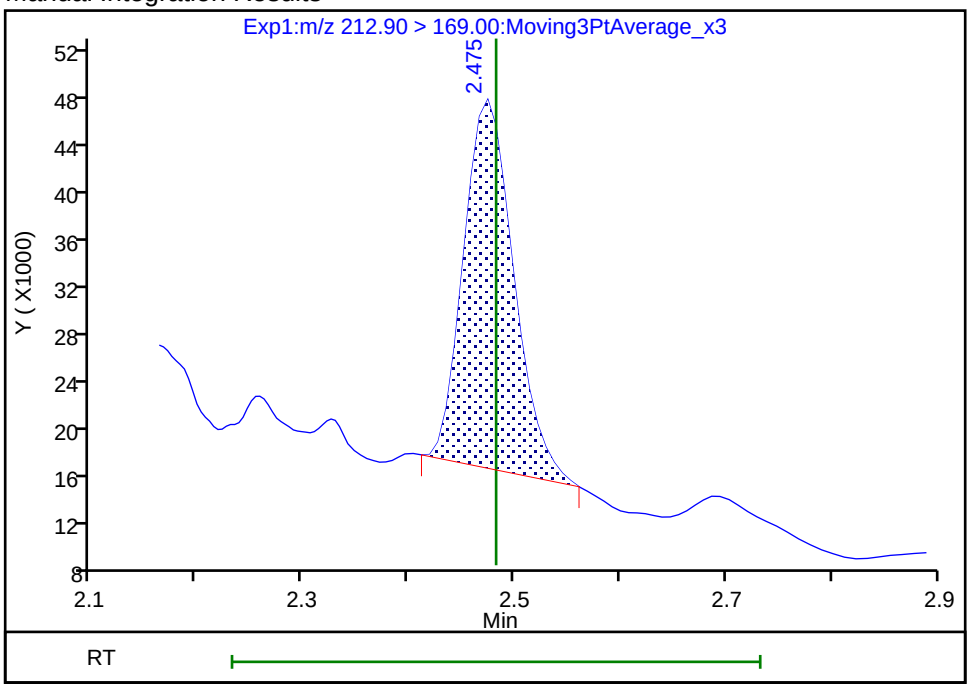
Processing Integration Results

RT: 2.47
Area: 255159
Amount: 0.300588
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 101119
Amount: 0.119122
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:21:52

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

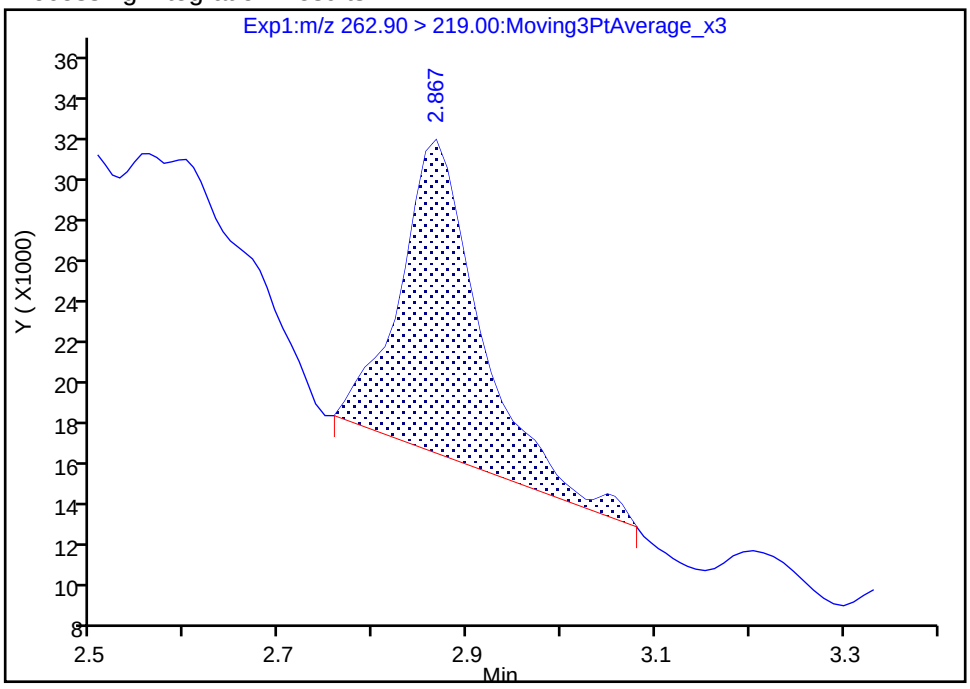
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

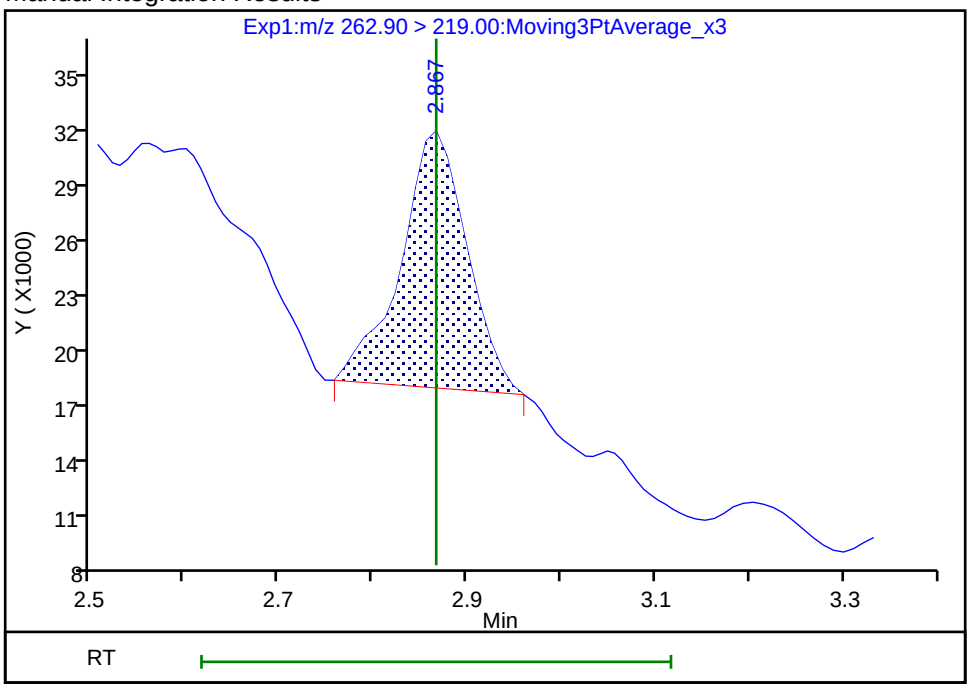
Processing Integration Results

RT: 2.87
Area: 92208
Amount: 0.092835
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 68309
Amount: 0.068773
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:21:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

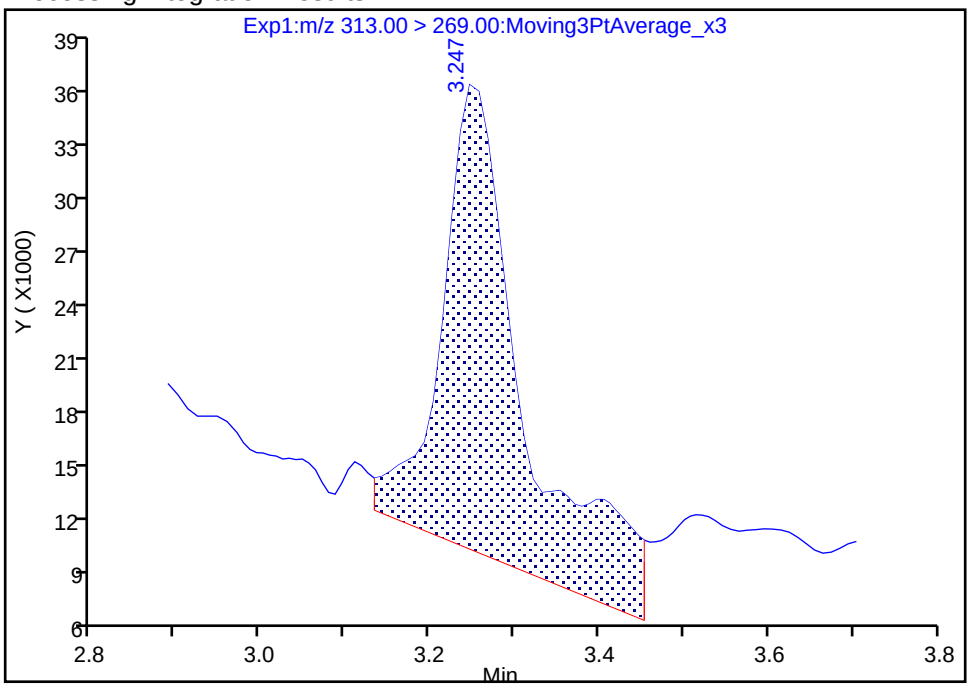
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

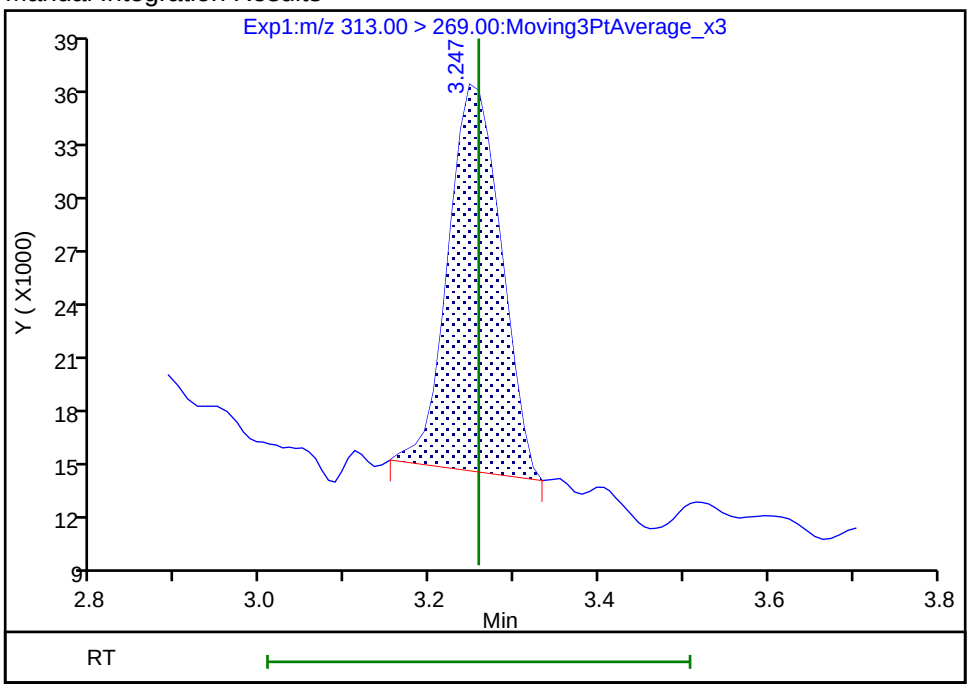
Processing Integration Results

RT: 3.25
Area: 169607
Amount: 0.130350
Amount Units: ng/ml



Manual Integration Results

RT: 3.25
Area: 93123
Amount: 0.071569
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:10

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

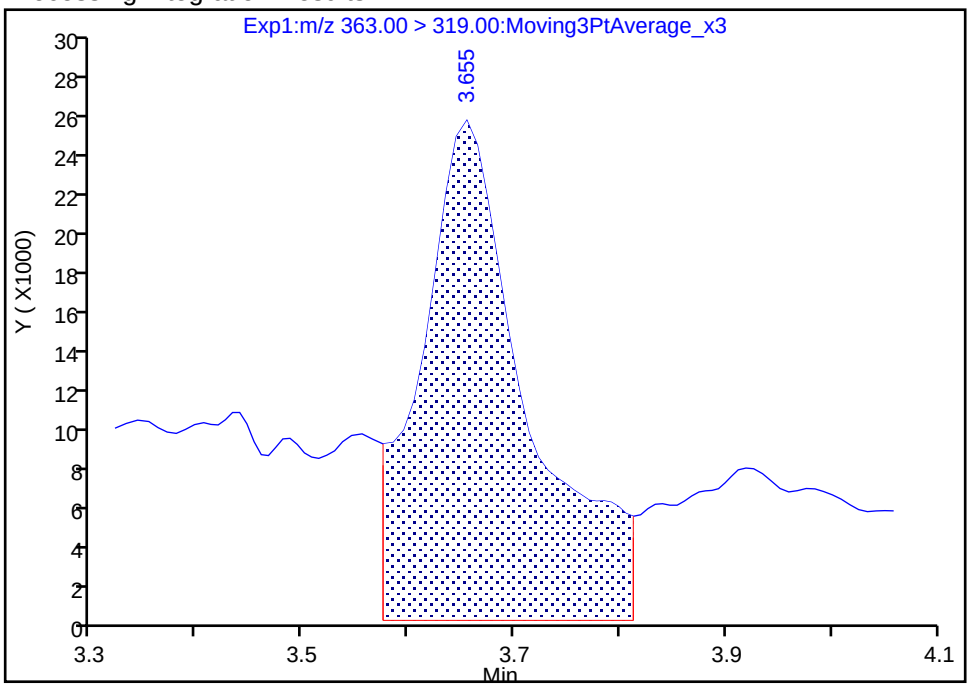
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

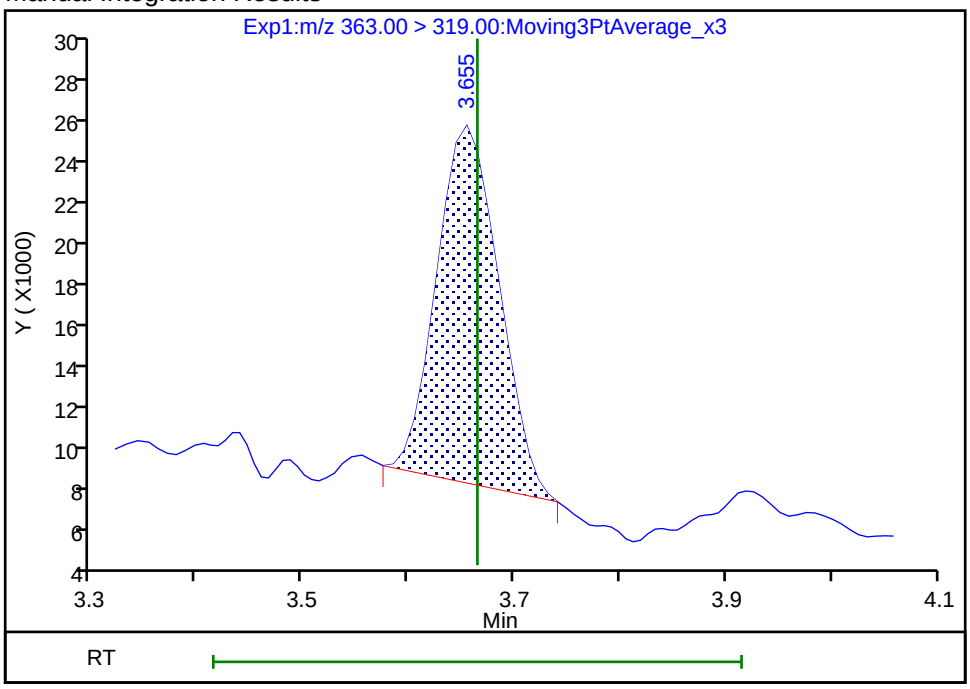
Processing Integration Results

RT: 3.65
Area: 177572
Amount: 0.129059
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 70735
Amount: 0.051410
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

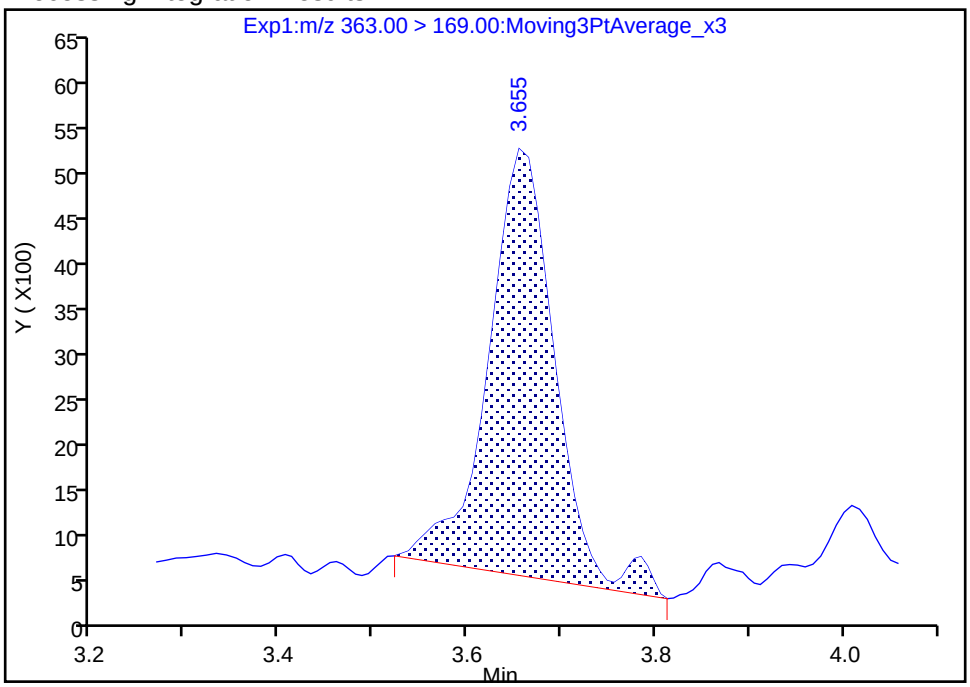
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

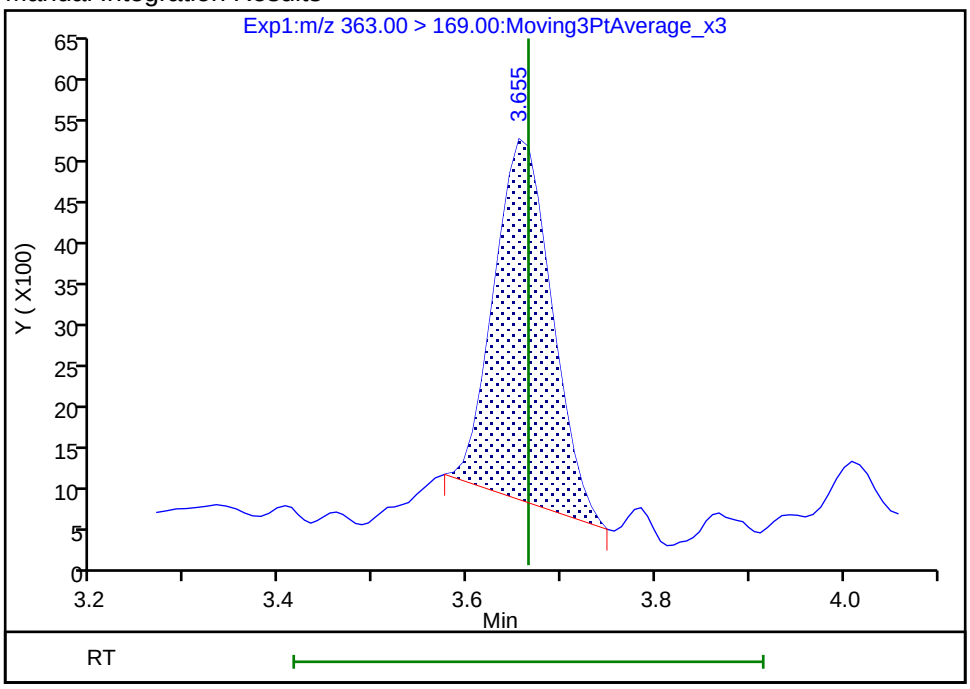
Processing Integration Results

RT: 3.65
Area: 23452
Amount: 0.129059
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 18894
Amount: 0.051410
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:19
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

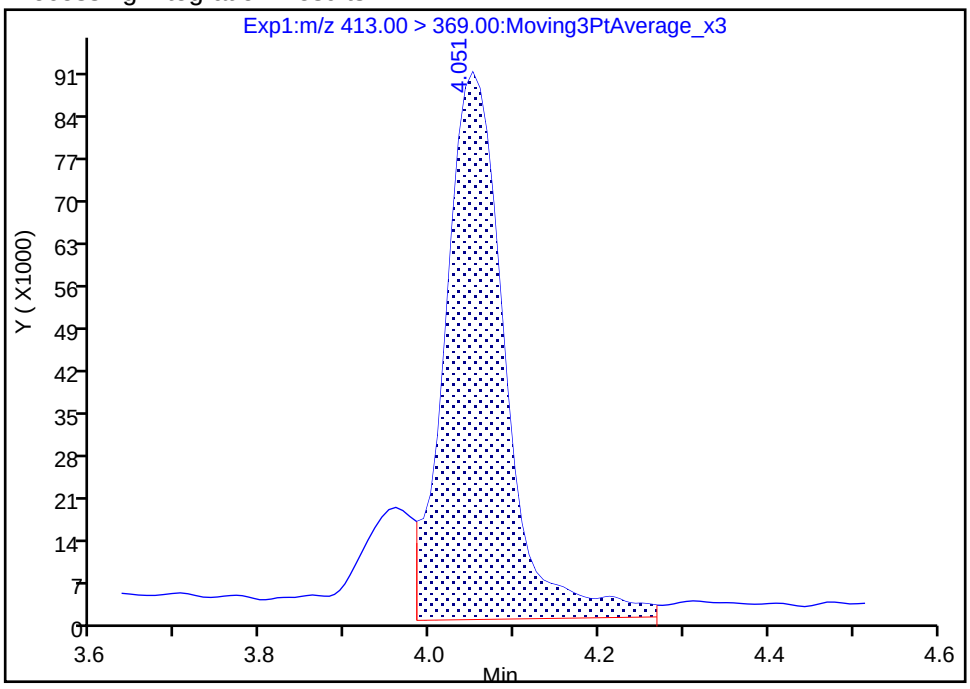
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

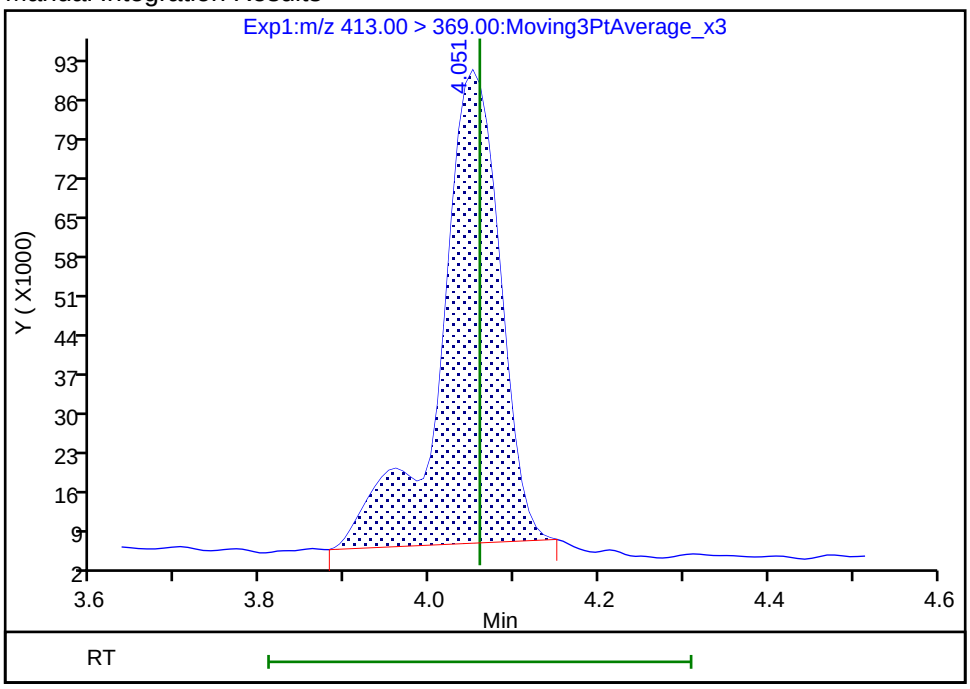
Processing Integration Results

RT: 4.05
Area: 442755
Amount: 0.268841
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 422072
Amount: 0.256282
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:44
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

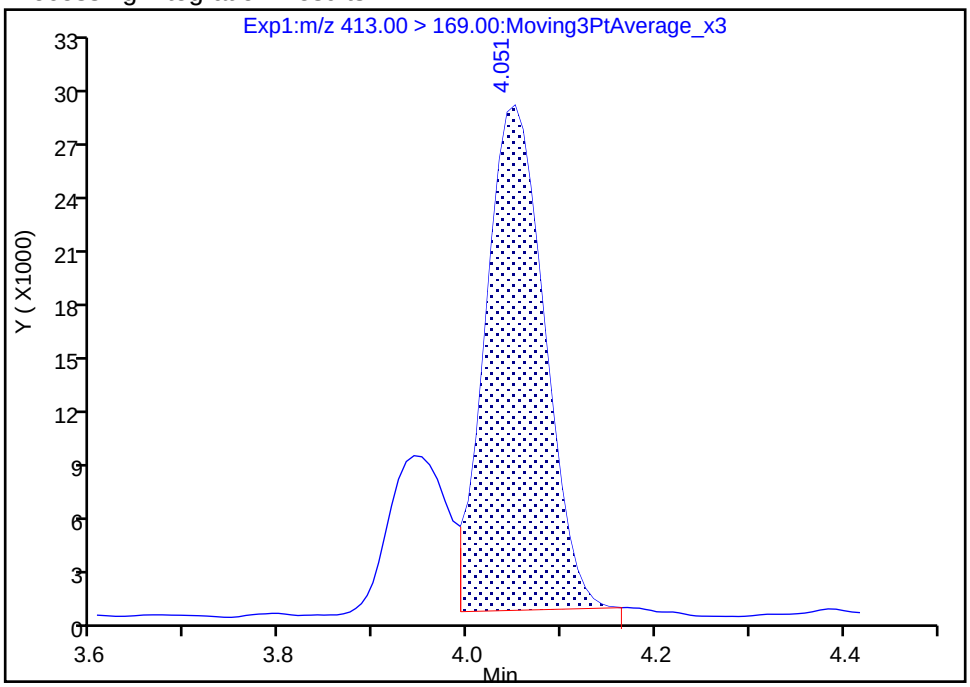
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

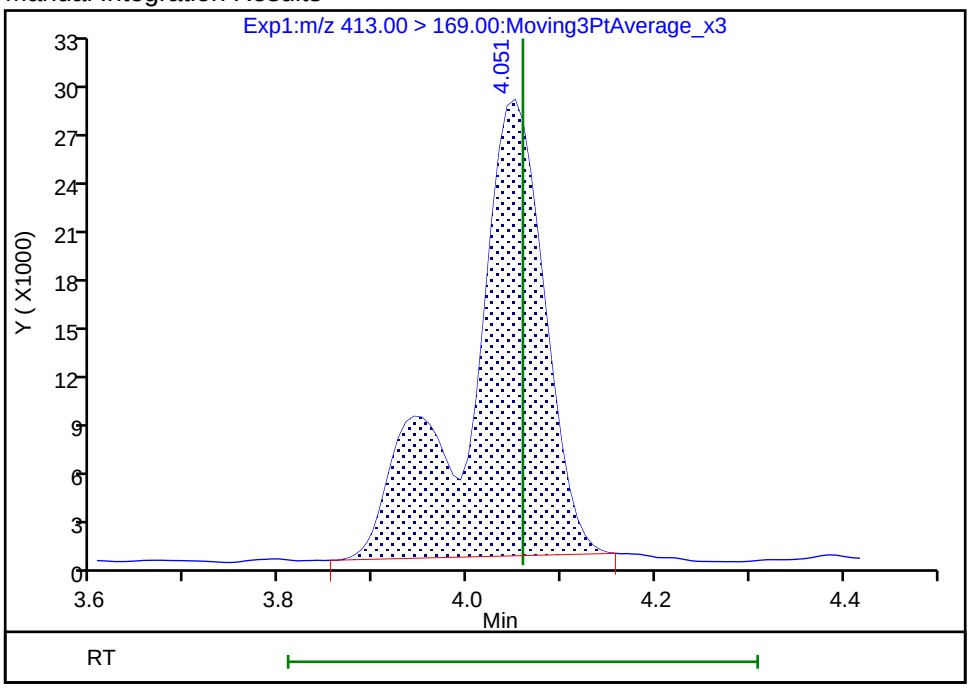
Processing Integration Results

RT: 4.05
Area: 122896
Amount: 0.268841
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 160630
Amount: 0.256282
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:46
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

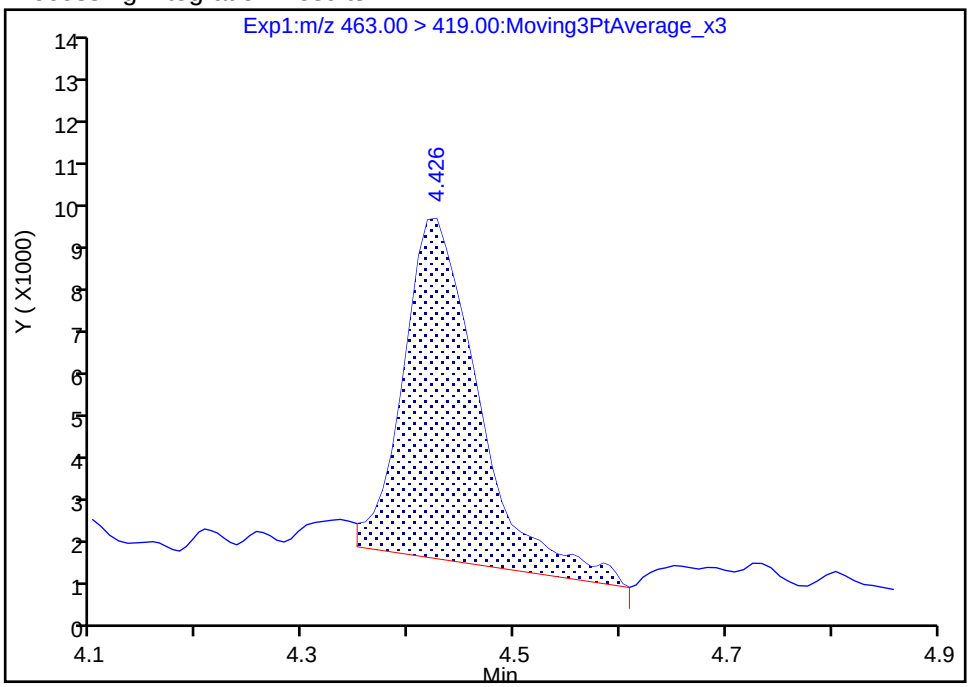
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

30 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

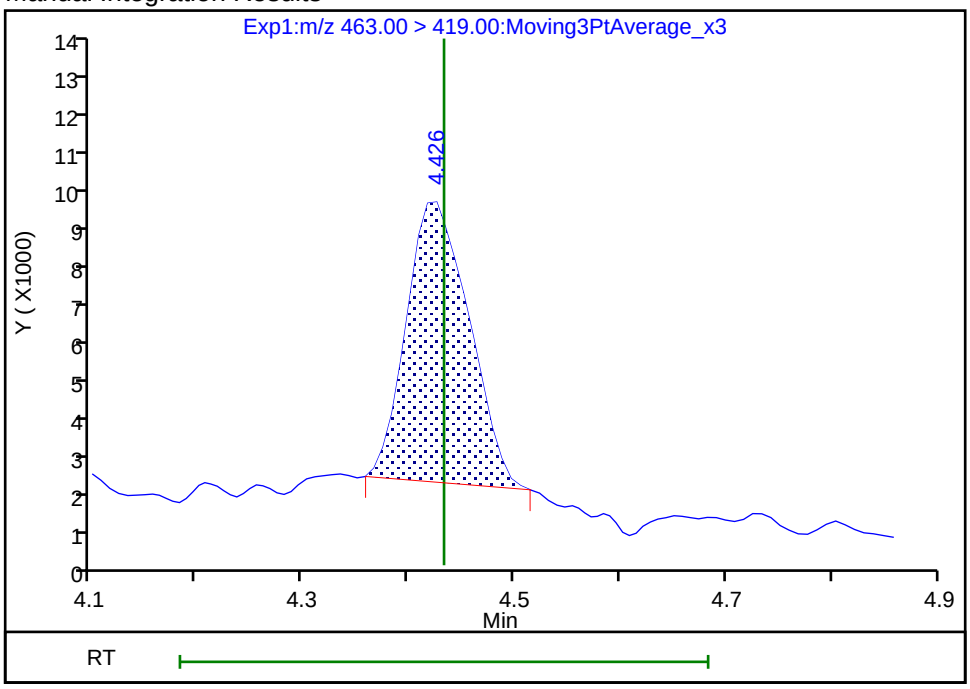
Processing Integration Results

RT: 4.43
Area: 39903
Amount: 0.026439
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 30104
Amount: 0.019946
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:23:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

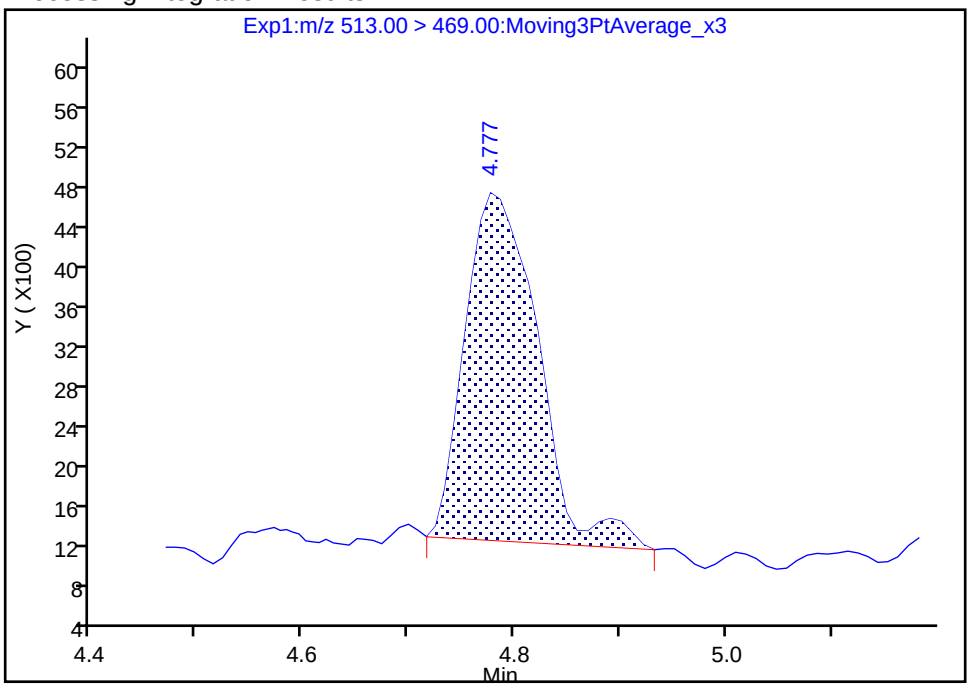
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

36 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

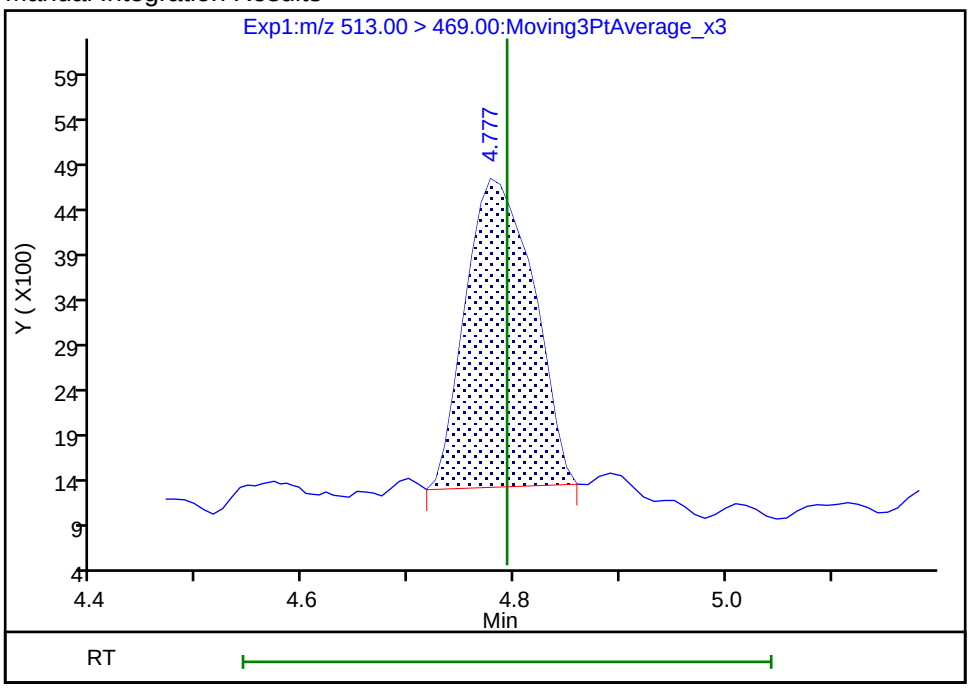
Processing Integration Results

RT: 4.78
Area: 16388
Amount: 0.010044
Amount Units: ng/ml



Manual Integration Results

RT: 4.78
Area: 15014
Amount: 0.009202
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:23:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

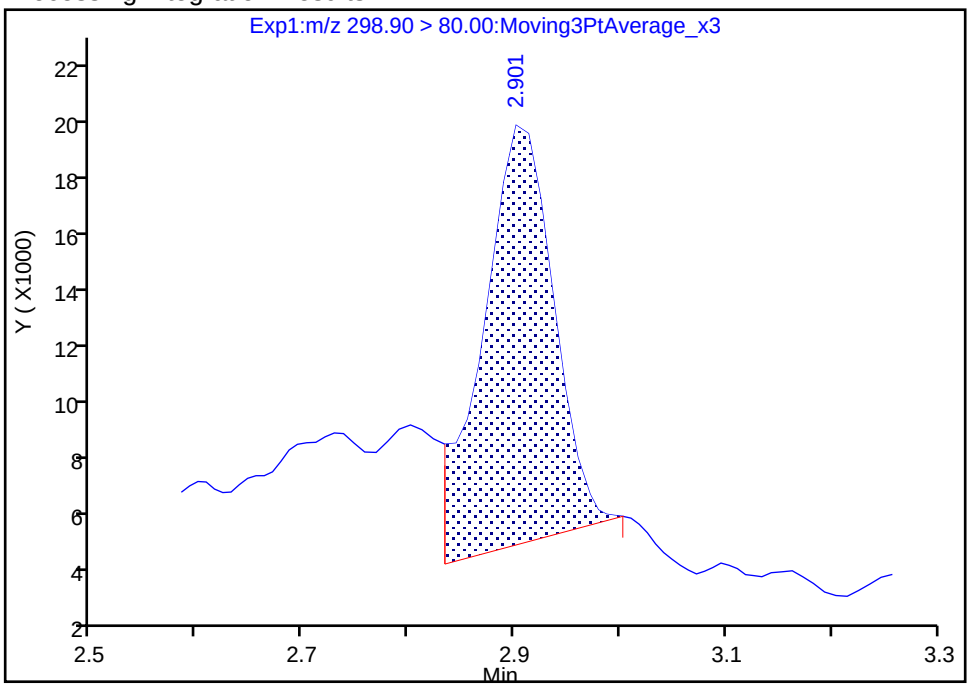
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

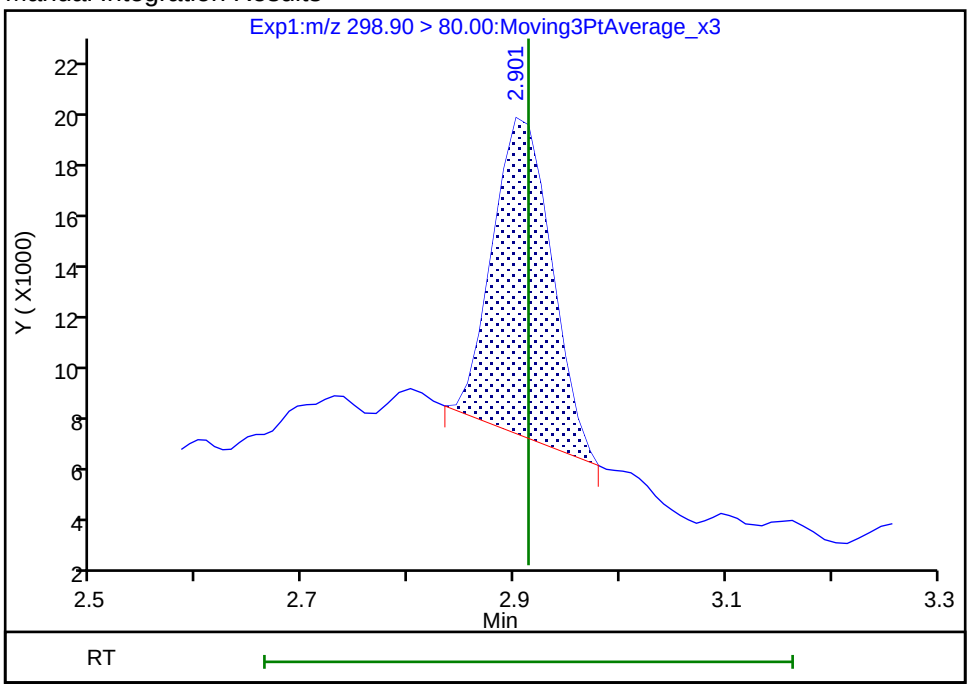
Processing Integration Results

RT: 2.90
Area: 65961
Amount: 0.046265
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 46112
Amount: 0.032343
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:02
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

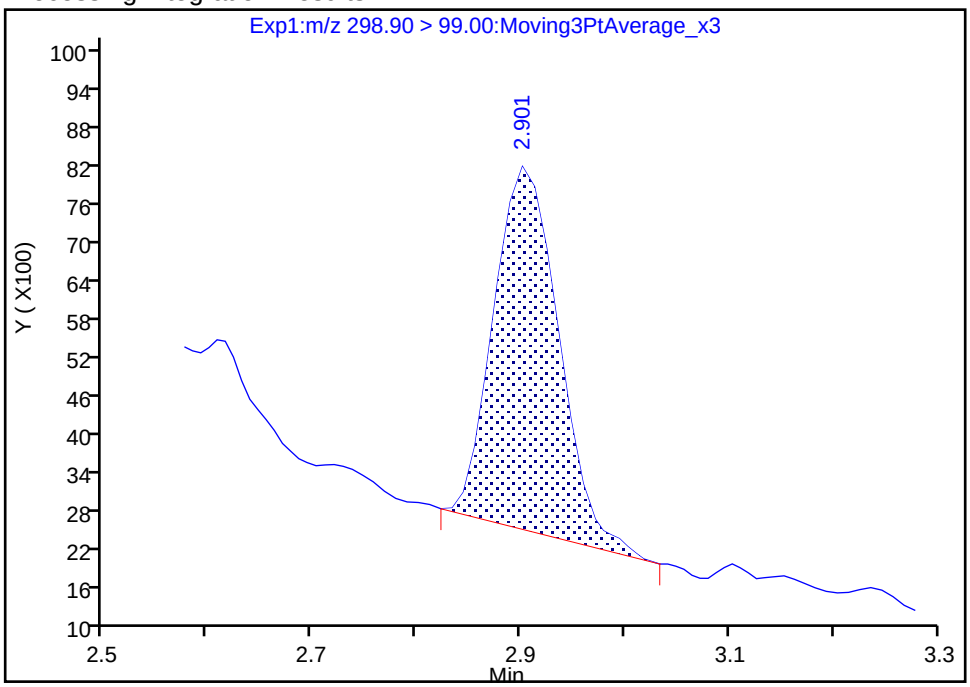
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

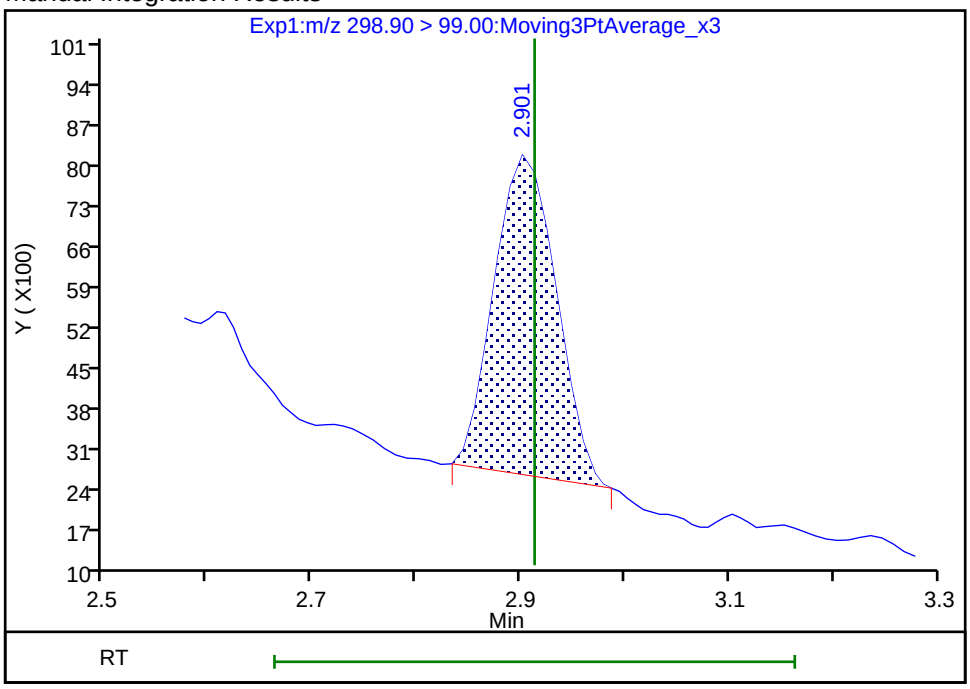
Processing Integration Results

RT: 2.90
Area: 24695
Amount: 0.046265
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 22933
Amount: 0.032343
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

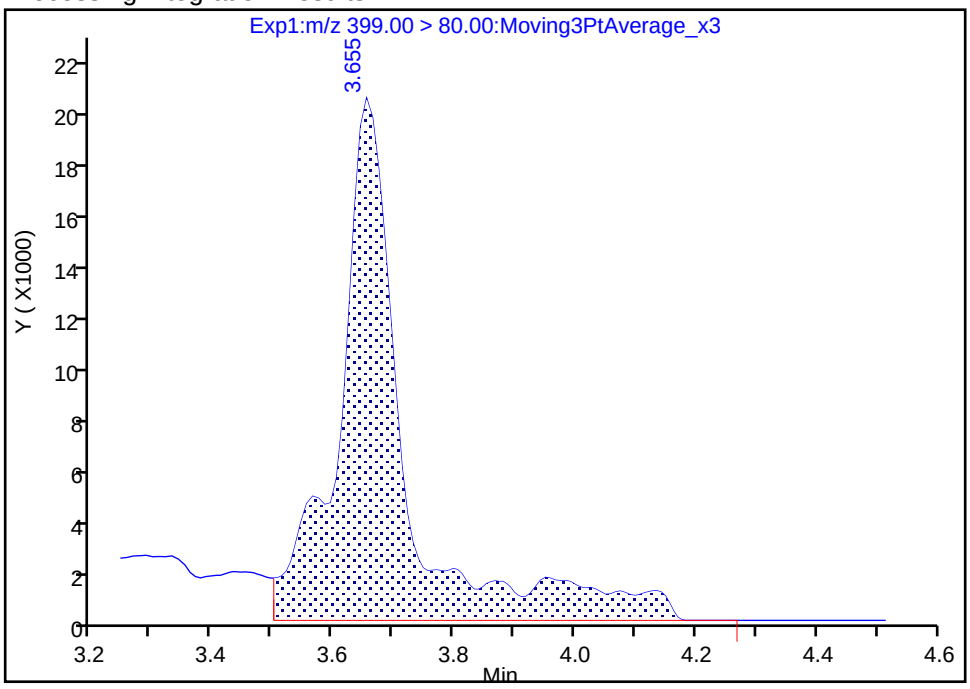
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

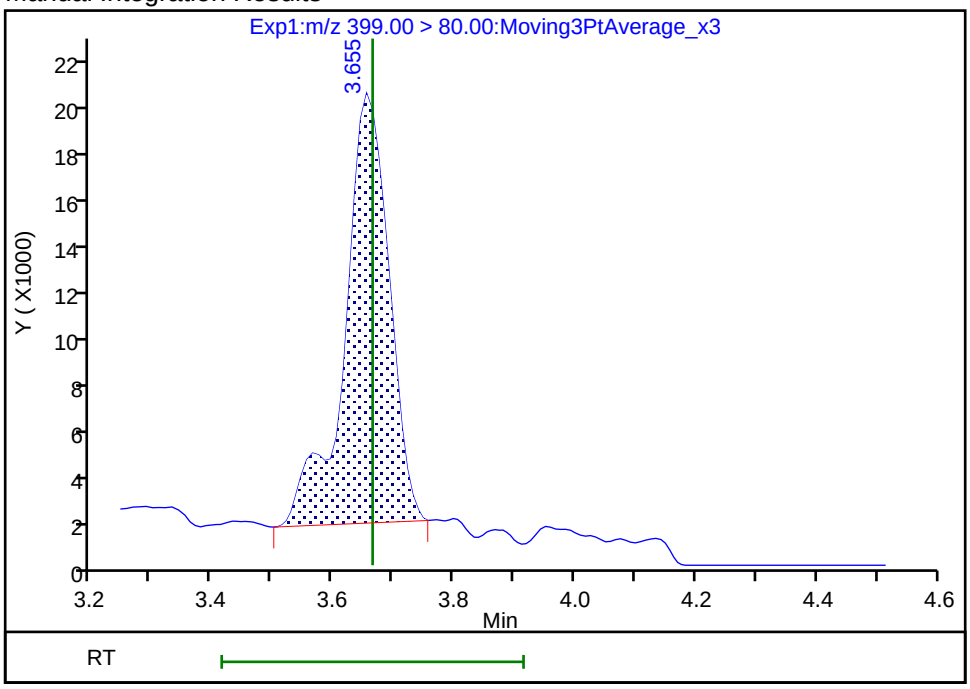
Processing Integration Results

RT: 3.65
Area: 151631
Amount: 0.132248
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 92620
Amount: 0.080780
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

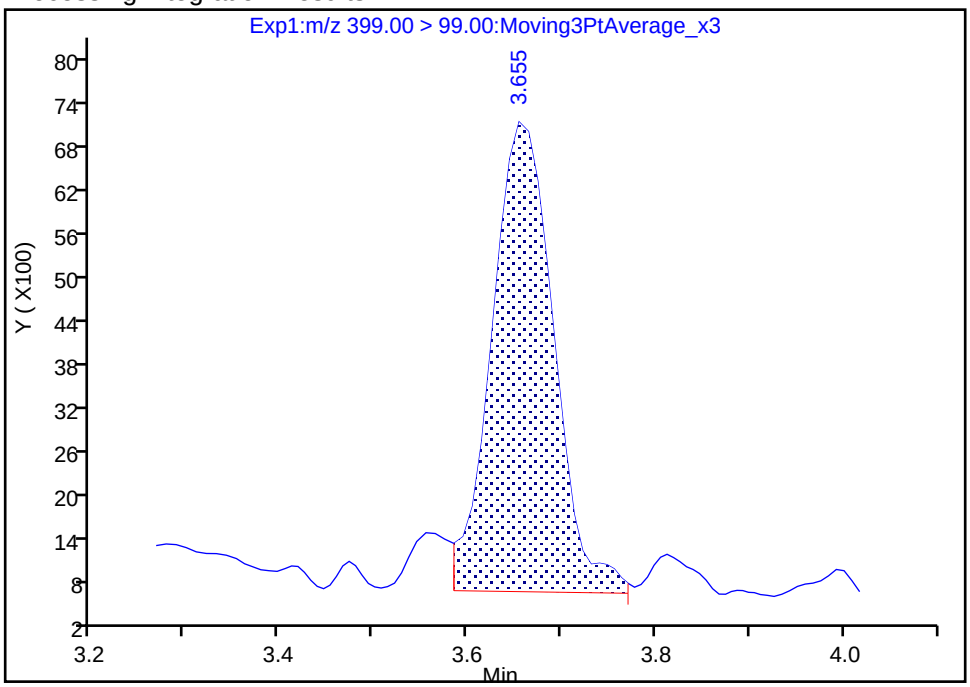
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

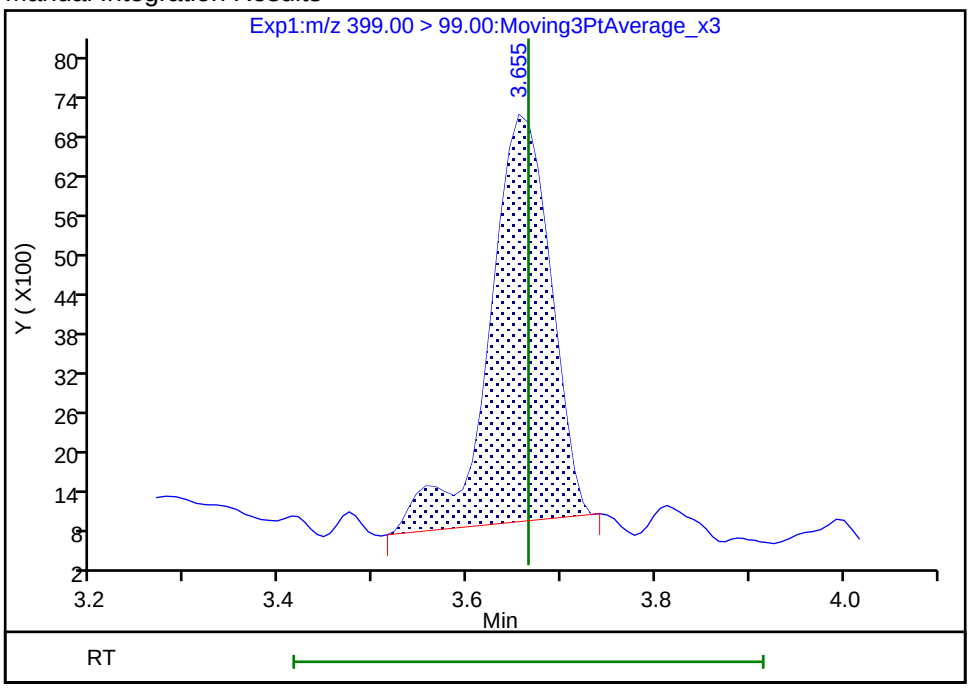
Processing Integration Results

RT: 3.65
Area: 29384
Amount: 0.132248
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 28090
Amount: 0.080780
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

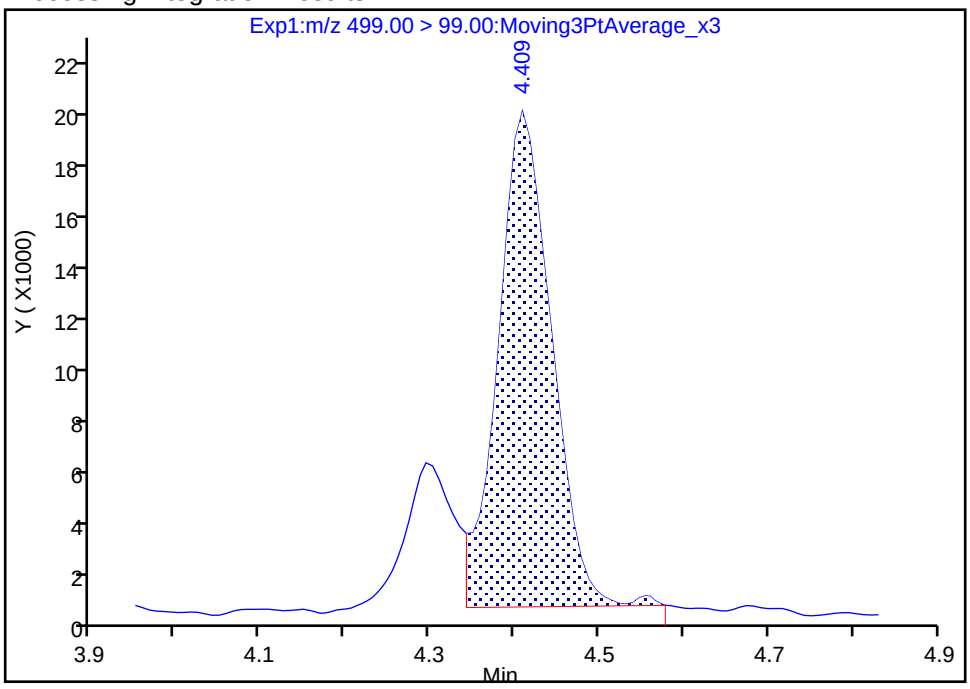
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

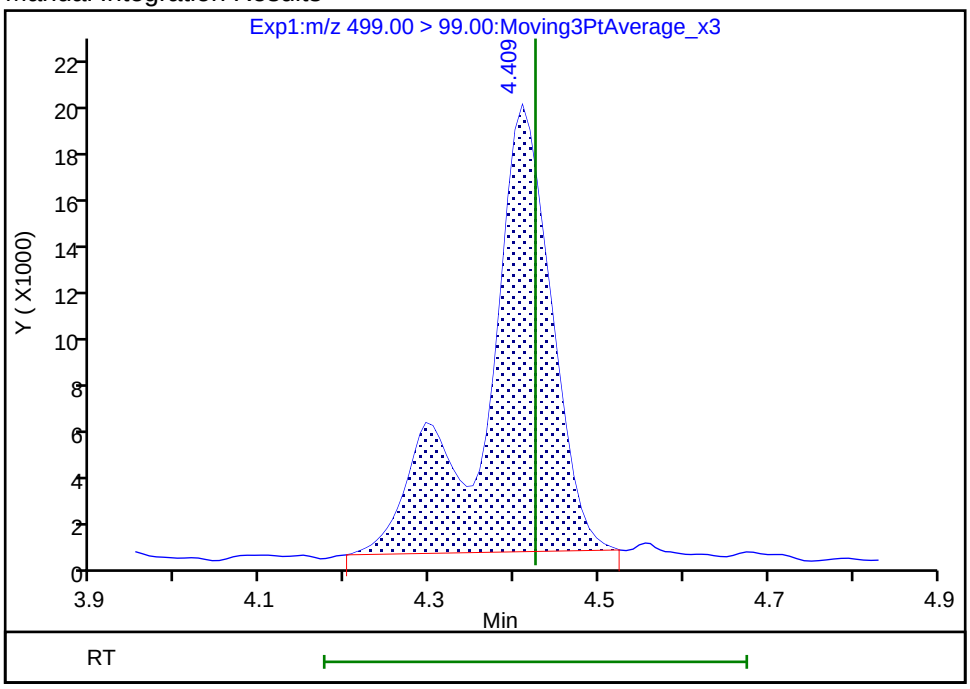
Processing Integration Results

RT: 4.41
Area: 82200
Amount: 0.724011
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 102425
Amount: 0.676323
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:51

Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

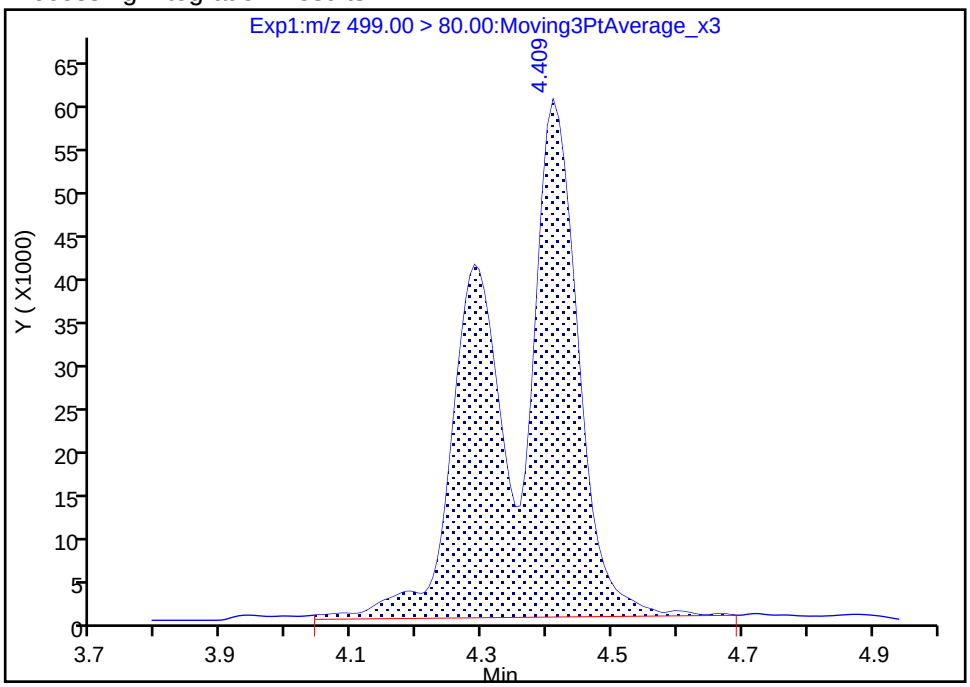
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_067.d				
Injection Date:	10-Sep-2020 19:23:10	Instrument ID:	A13		
Lims ID:	460-217659-D-6-A	Lab Sample ID:	320-217659-6		
Client ID:	MW-216				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	40	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

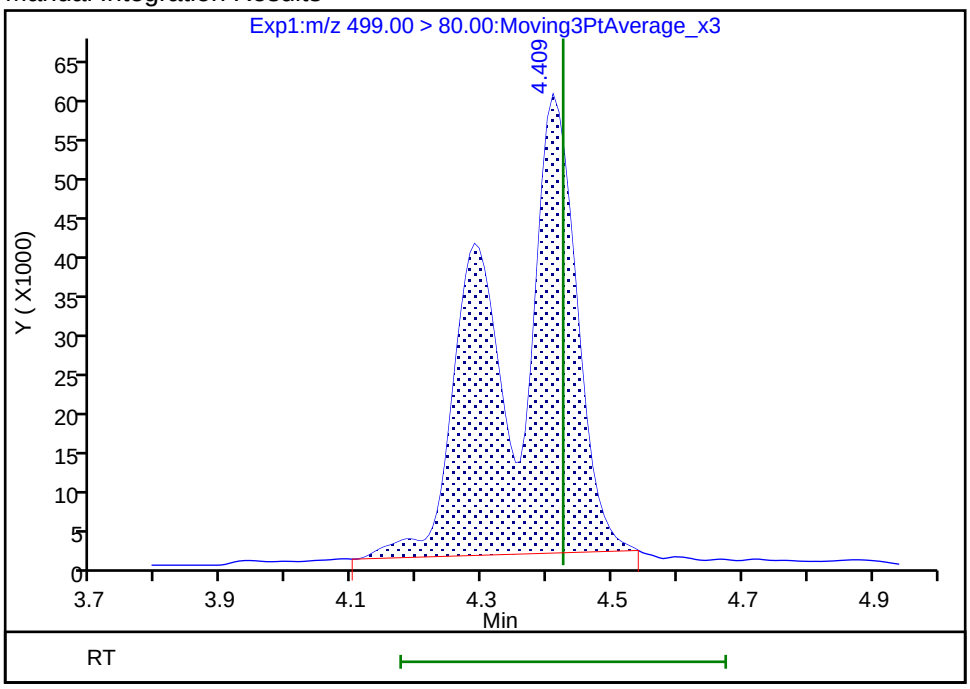
Processing Integration Results

RT: 4.41
Area: 497229
Amount: 0.724011
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 464478
Amount: 0.676323
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:22:54
Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-217 Lab Sample ID: 460-217659-7

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_068.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 12:35

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 266.1(mL) Date Analyzed: 09/10/2020 19:32

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.68	B	1.88	0.33
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.57	J	1.88	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	2.59		1.88	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.07		1.88	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	13.8		1.88	0.80
375-95-1	Perfluorononanoic acid (PFNA)	1.51	J	1.88	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.71	J	1.88	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.03	U	1.88	1.03
307-55-1	Perfluorododecanoic acid (PFDoA)	0.52	U	1.88	0.52
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.22	U	1.88	1.22
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.88	0.27
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.13		1.88	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.48	B	1.88	0.16
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.61	J	1.88	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	42.1		1.88	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.88	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.21	J	1.88	0.33
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.91	U	18.8	2.91
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79	U	18.8	1.79
27619-97-2	6:2 FTS	4.04	J	18.8	1.88
39108-34-4	8:2 FTS	1.88	U	18.8	1.88

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: MW-217 Lab Sample ID: 460-217659-7

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_068.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 12:35

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 266.1(mL) Date Analyzed: 09/10/2020 19:32

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	43		25-150
STL01893	13C5 PFPeA	50		25-150
STL00993	13C2 PFHxA	63		25-150
STL01892	13C4 PFHpA	64		25-150
STL00990	13C4 PFOA	63		25-150
STL00995	13C5 PFNA	68		25-150
STL00996	13C2 PFDA	65		25-150
STL00997	13C2 PFUnA	63		25-150
STL00998	13C2 PFDoA	58		25-150
STL02116	13C2 PFTeDA	52		25-150
STL02337	13C3 PFBS	79		25-150
STL00994	18O2 PFHxS	85		25-150
STL00991	13C4 PFOS	82		25-150
STL01056	13C8 FOSA	67		25-150
STL02118	d3-NMeFOSAA	62		25-150
STL02117	d5-NEtFOSAA	69		25-150
STL02279	M2-6:2 FTS	106		25-150
STL02280	M2-8:2 FTS	100		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d
Lims ID: 460-217659-D-7-A
Client ID: MW-217
Sample Type: Client
Inject. Date: 10-Sep-2020 19:32:36 ALS Bottle#: 41 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-7-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:31:05 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 10:31:05
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.470	2.475	-0.005	0.611	4301436	1.06		42.6	4425	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.470	2.482	-0.012	1.000	125178	0.0979			2.8	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.861	2.867	-0.006	0.708	3959421	1.26		50.3	1496	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.861	2.867	-0.006	1.000	68078	0.0418			0.5	M
D 14 13C3 PFBS										
301.90 > 80.00	2.895	2.913	-0.018	0.717	7247191	1.83		78.8	282	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.895	2.913	-0.018	1.000	172554	0.0566	Target=2.29		2.4	M
298.90 > 99.00	2.907	2.913	-0.006	1.004	71654		2.41(1.15-3.44)		4.0	
10 Perfluorohexanoic acid										M
313.00 > 269.00	3.242	3.258	-0.016	0.997	155887	0.0689	Target=13.52		1.3	M
313.00 > 119.00	3.242	3.258	-0.016	0.997	15488		10.07(6.76-20.28)		2.7	
D 9 13C2 PFHxA										
315.00 > 270.00	3.253	3.258	-0.005	0.805	6087929	1.56		62.6	2705	
D 17 18O2 PFHxS										
403.00 > 84.00	3.652	3.665	-0.013	0.904	5201875	2.01		84.9	6056	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.652	3.665	-0.013	1.000	136049	0.0552	Target=3.87		2.4	M
363.00 > 169.00	3.652	3.665	-0.013	1.000	38311		3.55(1.93-5.80)		12.9	M
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.652	3.665	-0.013	1.000	291786	0.1193	Target=3.08		13.6	M
399.00 > 99.00	3.652	3.665	-0.013	1.000	86134		3.39(1.54-4.62)		15.1	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.652	3.665	-0.013	0.904	6099212	1.59		63.7	9658	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.024	4.042	-0.018	0.996	2824773	2.53		106	357	
21 6:2 FTS										
427.00 > 407.00	4.032	4.042	-0.010	1.002	307519	0.1074			159	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.040	4.051	-0.011	0.917	27756	0.0161	Target=4.20		3.3	
449.00 > 99.00	4.049	4.051	-0.002	0.919	9974		2.78(2.10-6.30)		2.7	
D 24 13C4 PFOA										
417.00 > 372.00	4.049	4.059	-0.010	1.002	7431458	1.59		63.5	11895	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.049	4.059	-0.010	1.000	1119370	0.3681	Target=2.99		26.2	M
413.00 > 169.00	4.049	4.059	-0.010	1.000	424737		2.64(1.50-4.49)		139	M
* 25 13C2 PFOA										
415.00 > 370.00	4.040	4.059	-0.019		11890889	2.50			4644	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.406	4.425	-0.019	1.000	1757578	1.12	Target=4.13		192	
499.00 > 99.00	4.406	4.425	-0.019	1.000	370054		4.75(2.06-6.19)		100	M
D 29 13C4 PFOS										
503.00 > 80.00	4.406	4.425	-0.019	1.091	3610296	1.95		81.7	524	
30 Perfluorononanoic acid										M
463.00 > 419.00	4.423	4.433	-0.010	1.000	113072	0.0402	Target=7.70		8.4	M
463.00 > 169.00	4.415	4.433	-0.018	0.998	14111		8.01(3.85-11.55)		14.0	
D 31 13C5 PFNA										
468.00 > 423.00	4.423	4.442	-0.019	1.095	7402323	1.71		68.4	7527	
D 34 13C8 FOSA										
506.00 > 78.00	4.730	4.740	-0.010	1.171	4454895	1.68		67.1	6340	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.730	4.740	-0.010	1.000	53969	0.0323			9.9	
D 37 13C2 PFDA										
515.00 > 470.00	4.783	4.793	-0.010	1.184	8514703	1.62		65.0	10843	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.783	4.793	-0.010	1.000	57976	0.0190	Target=10.40		6.0	
513.00 > 169.00	4.765	4.793	-0.028	0.996	6297		9.21(5.20-15.61)		10.1	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.783	4.802	-0.019	1.184	3523668	2.38		99.6	946	
39 8:2 FTS										
527.00 > 507.00	4.774	4.802	-0.028	0.998	4529	0.001245			24.6	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.939	4.959	-0.020	1.222	4214332	1.56		62.4	3231	
41 NMeFOSAA										
570.00 > 419.00	4.818	4.959	-0.141	0.975	17320	0.0128			3.9	
D 44 13C2 PFUnA										
565.00 > 520.00	5.103	5.113	-0.010	1.263	8079563	1.58		63.0	6818	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.113	5.123	-0.010	1.265	4525028	1.73		69.2	1919	
48 NEtFOSA										
584.00 > 419.00	5.122	5.132	-0.010	1.002	11302	0.008066			23.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	5.392	5.409	-0.017	1.335	8034507	1.46		58.2	5437	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.401	5.409	-0.008	1.002	11052	0.003770	Target=9.00		4.4	
613.00 > 169.00	5.384	5.409	-0.025	0.998	1261		8.76(4.50-13.49)		7.4	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.907	5.920	-0.013	1.462	7081685	1.30		52.0	10471	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 10:31:05 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d

Injection Date: 10-Sep-2020 19:32:36 Instrument ID: A13

Lims ID: 460-217659-D-7-A Lab Sample ID: 320-217659-7

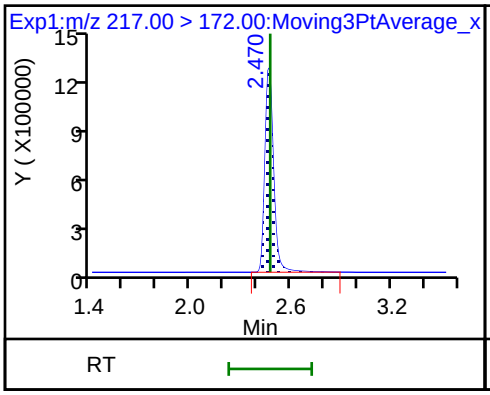
Client ID: MW-217

Operator ID: SACINSTLCMS01 ALS Bottle#: 41 Worklist Smp#: 11

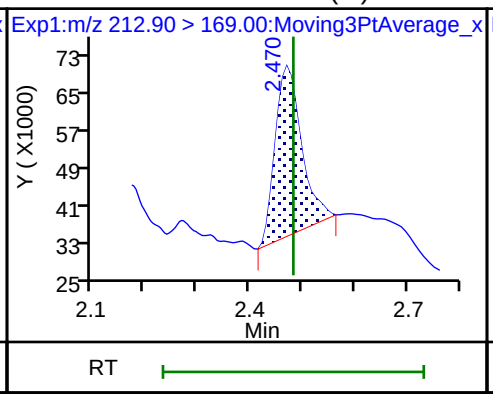
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

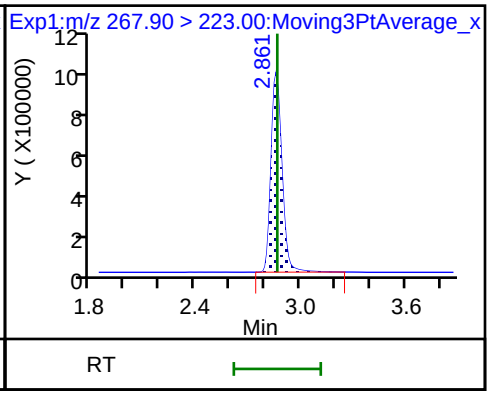
D 1 13C4 PFBA



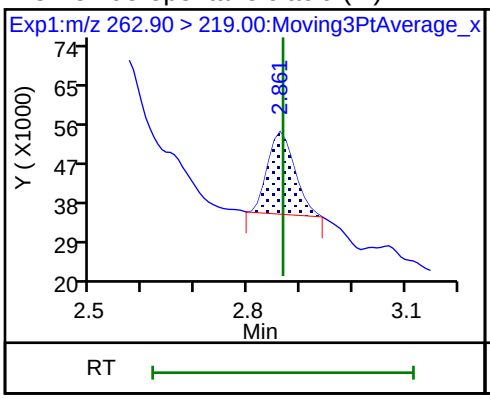
2 Perfluorobutanoic acid (M)



D 4 13C5 PFPeA



5 Perfluoropentanoic acid (M)



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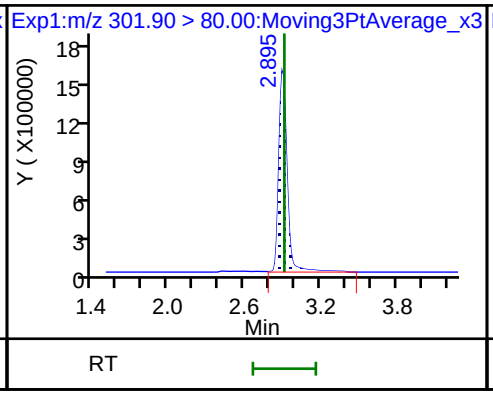
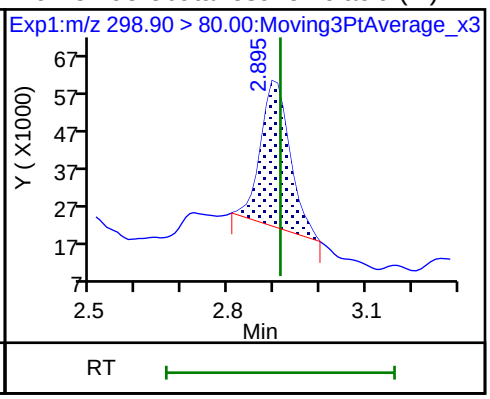
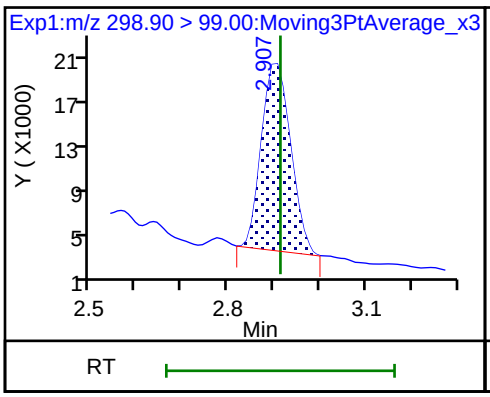


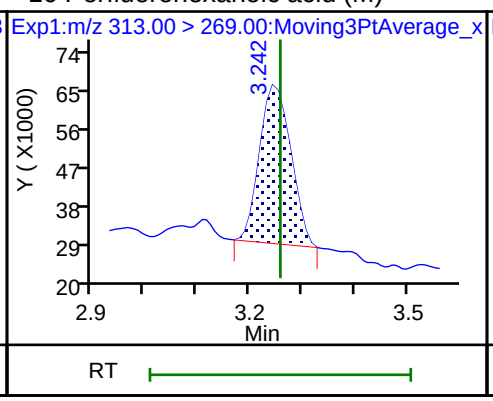
6 Perfluorobutanesulfonic acid (M)



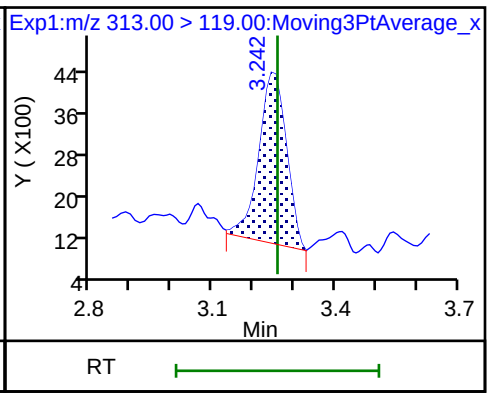
6 Perfluorobutanesulfonic acid



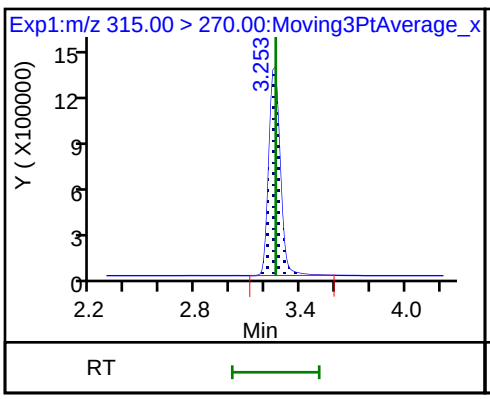
10 Perfluorohexanoic acid (M)



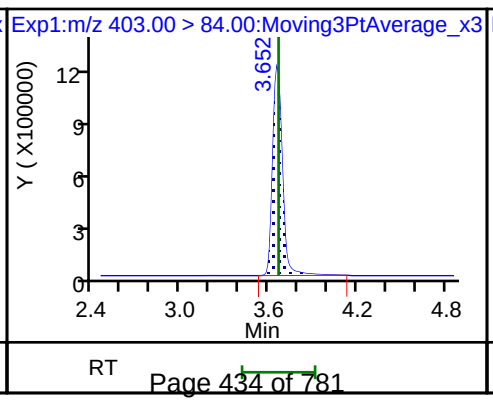
10 Perfluorohexanoic acid



D 9 13C2 PFHxA



D 17 18O2 PFHxS



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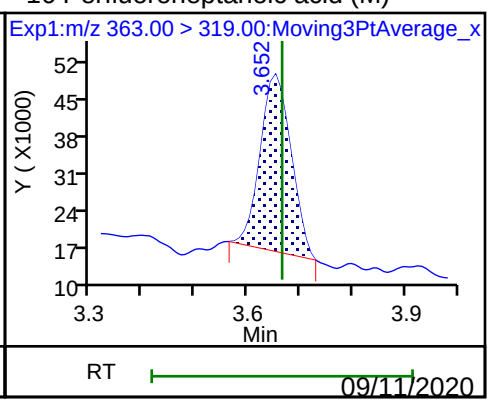
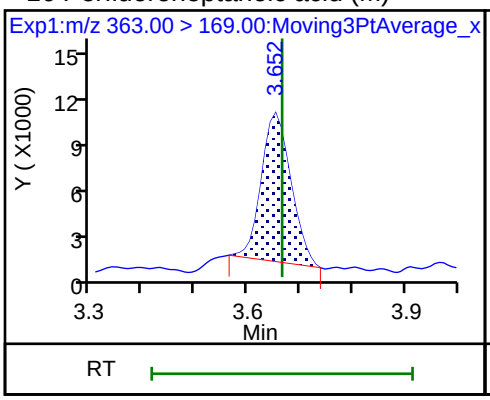
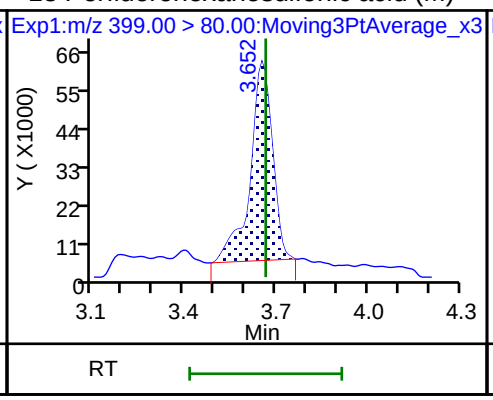


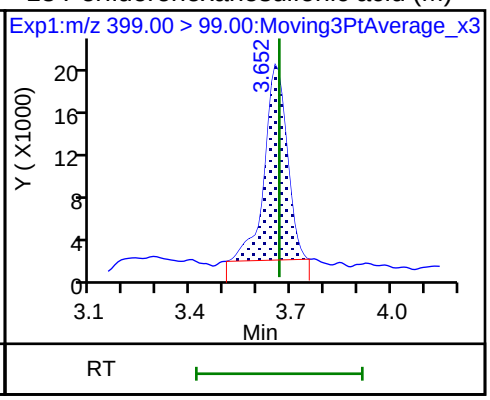
16 Perfluoroheptanoic acid (M)



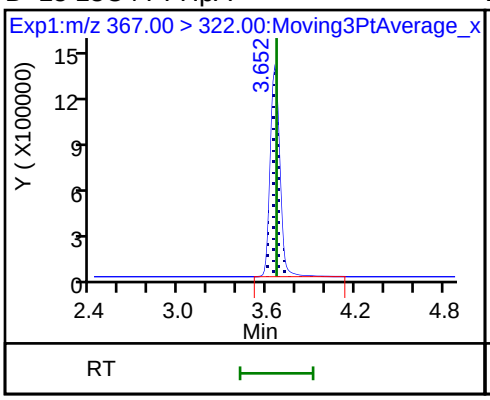
18 Perfluorohexanesulfonic acid (M)



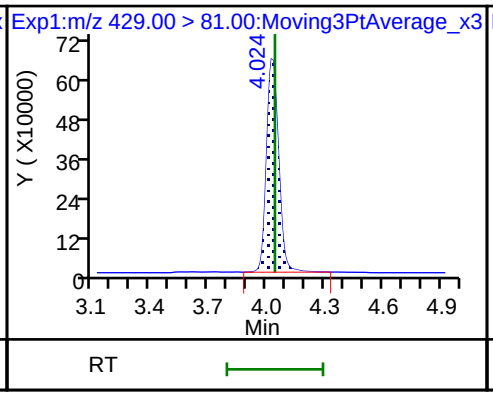
18 Perfluorohexanesulfonic acid (M)



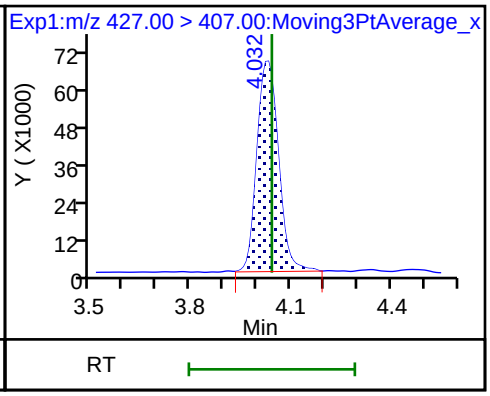
D 15 13C4 PFHpA



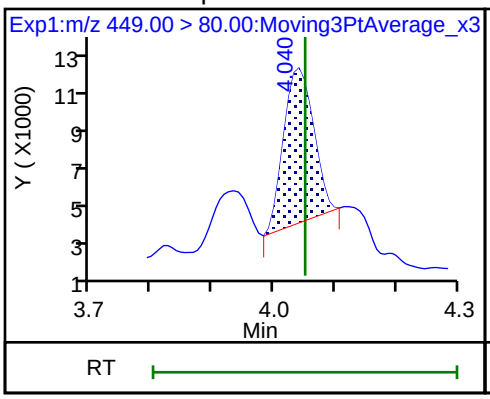
D 20 M2-6:2 FTS



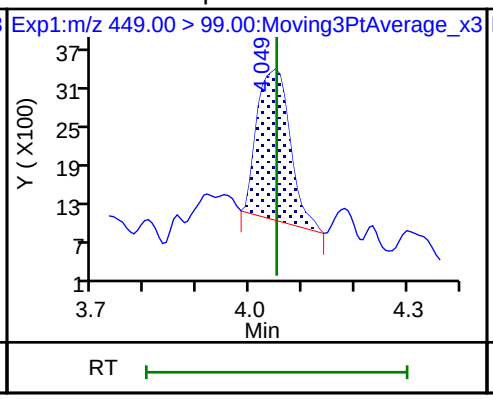
21 6:2 FTS



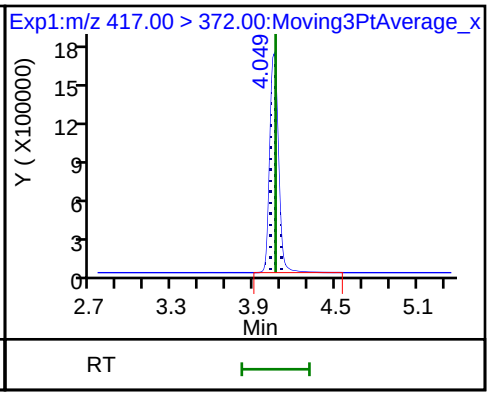
22 Perfluoroheptanesulfonic acid



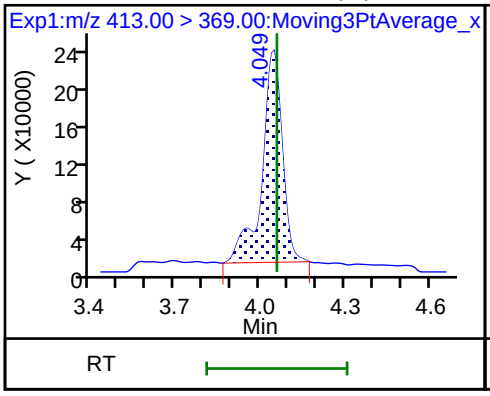
22 Perfluoroheptanesulfonic acid



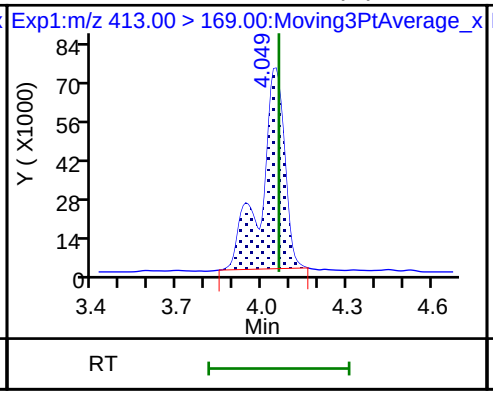
D 24 13C4 PFOA



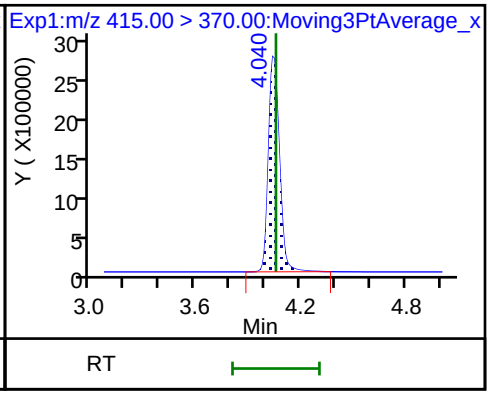
26 Perfluorooctanoic acid (M)



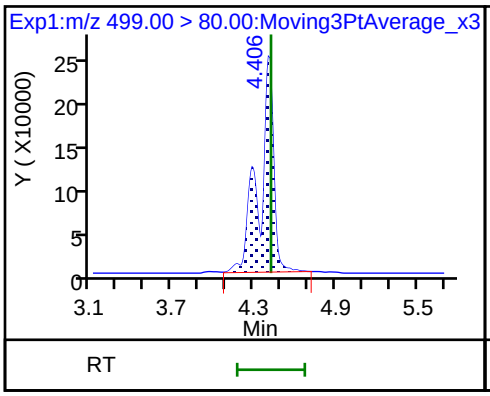
26 Perfluorooctanoic acid (M)



* 25 13C2 PFOA



28 Perfluorooctanesulfonic acid



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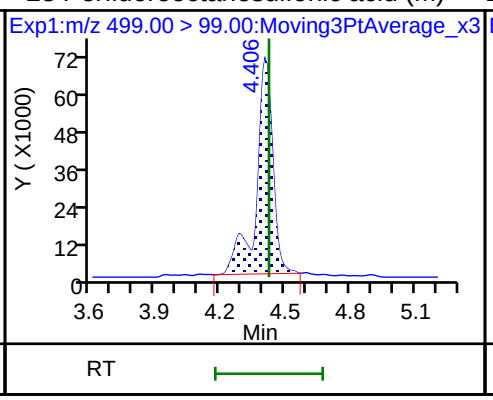
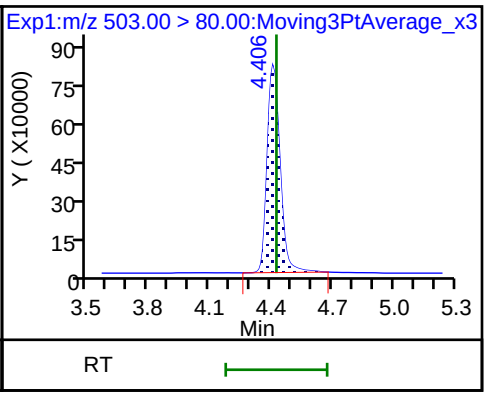
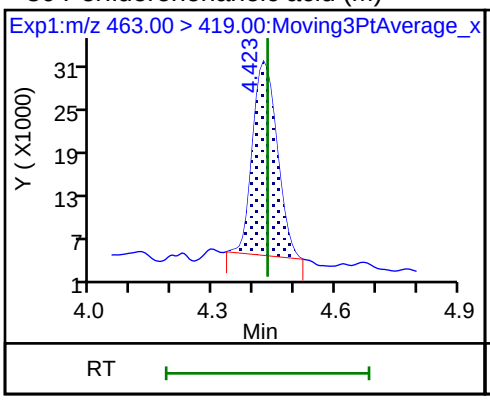


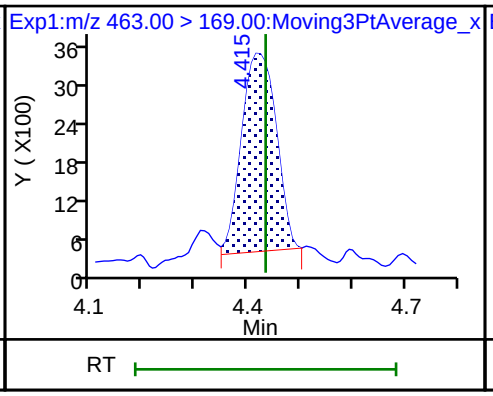
D 29 13C4 PFOS



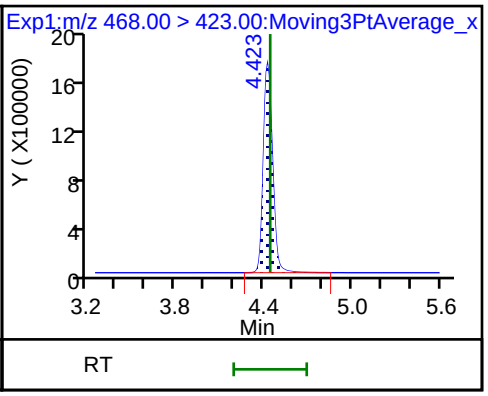
30 Perfluorononanoic acid (M)



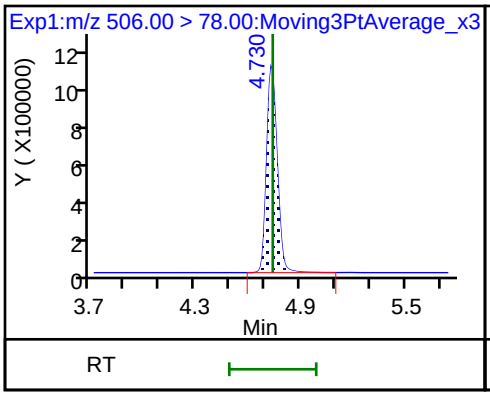
30 Perfluorononanoic acid



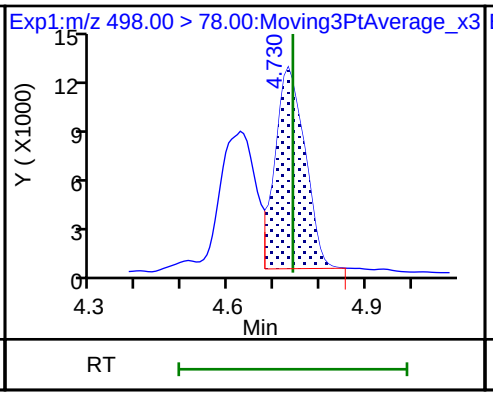
D 31 13C5 PFNA



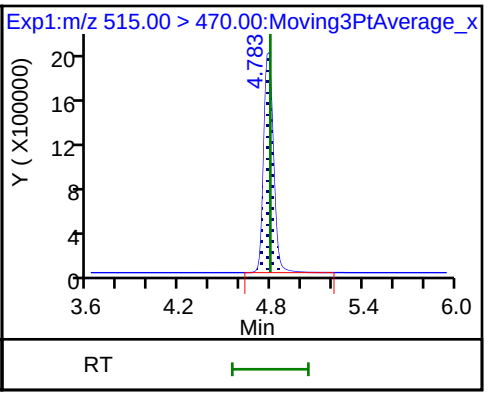
D 34 13C8 FOSA



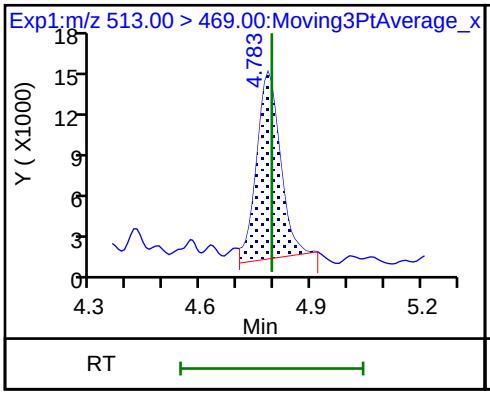
33 Perfluorooctanesulfonamide



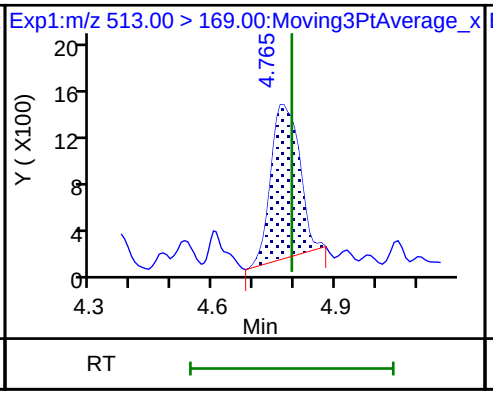
D 37 13C2 PFDA



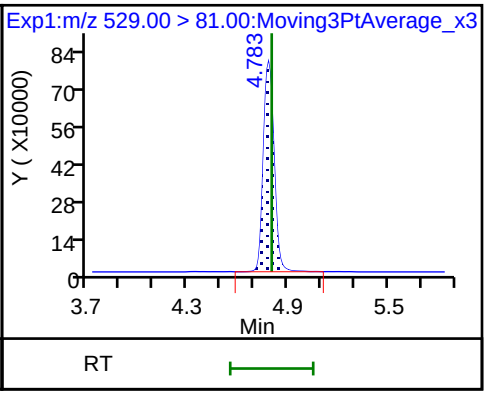
36 Perfluorodecanoic acid



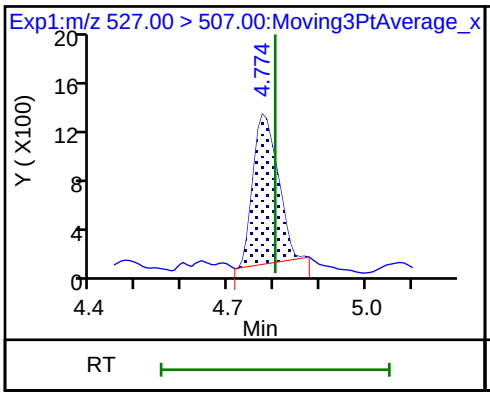
36 Perfluorodecanoic acid



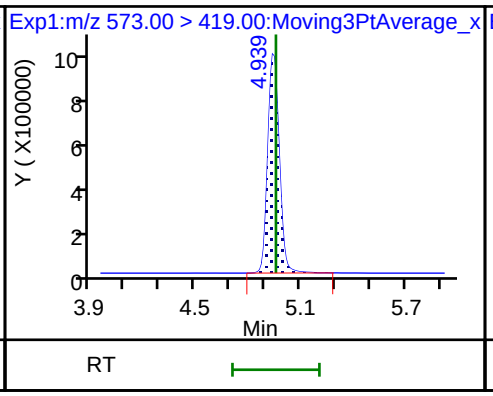
D 38 M2-8:2 FTS



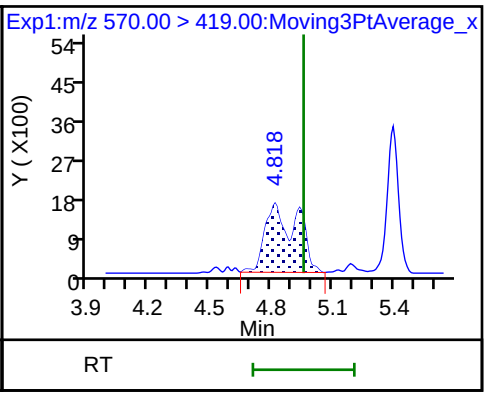
39 8:2 FTS



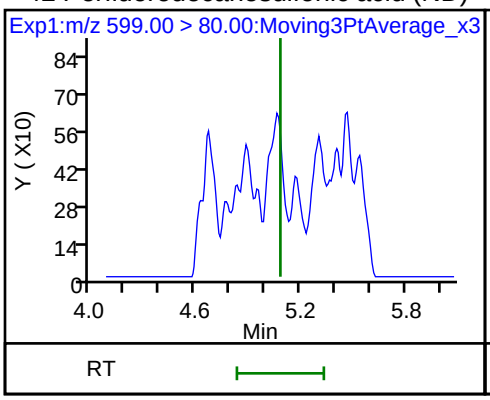
D 40 d3-NMeFOSAA



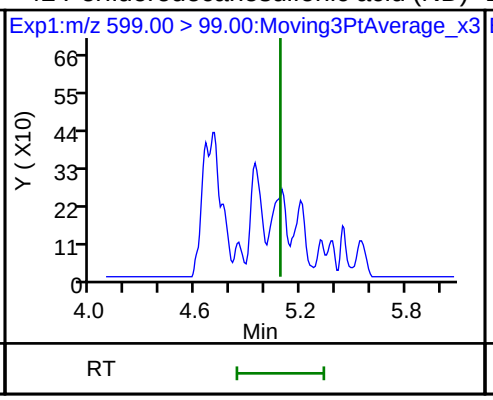
41 NMeFOSAA



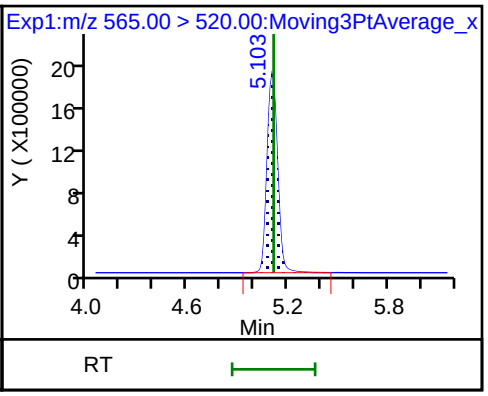
42 Perfluorodecanesulfonic acid (ND)



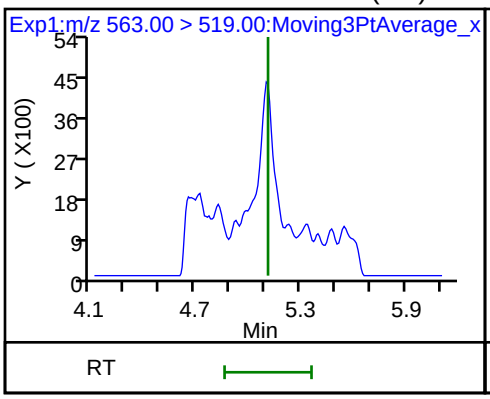
42 Perfluorodecanesulfonic acid (ND)



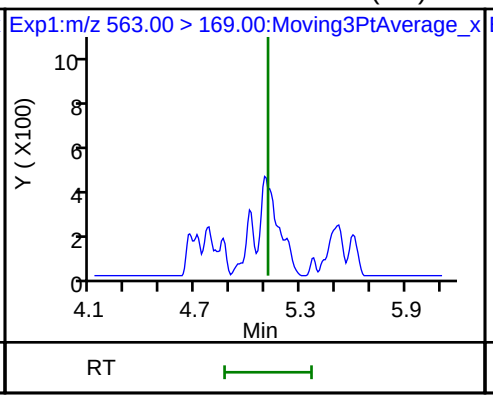
D 44 13C2 PFUnA



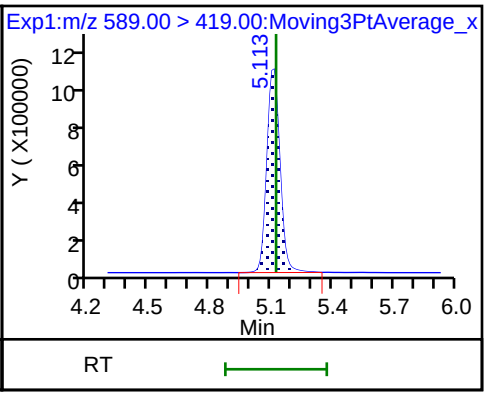
45 Perfluoroundecanoic acid (ND)



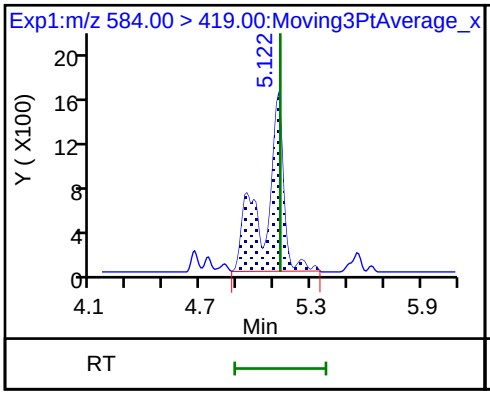
45 Perfluoroundecanoic acid (ND)



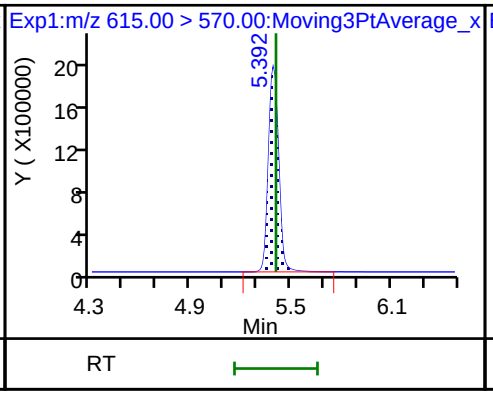
D 46 d5-NEtFOSAA



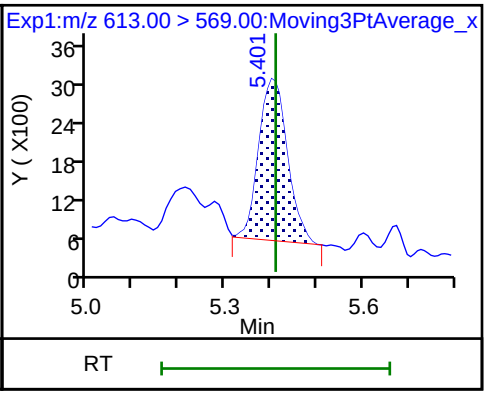
48 NEtFOSA



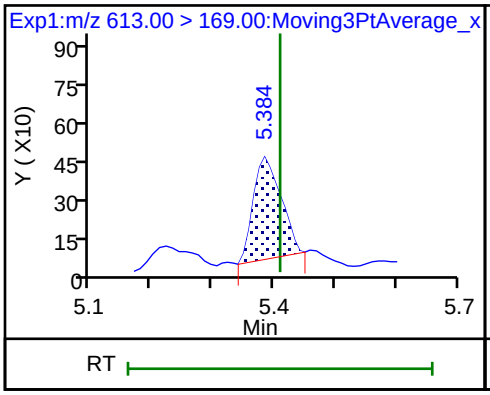
D 56 13C2 PFDoA



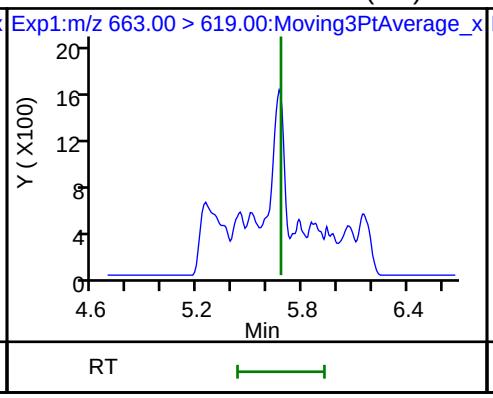
57 Perfluorododecanoic acid



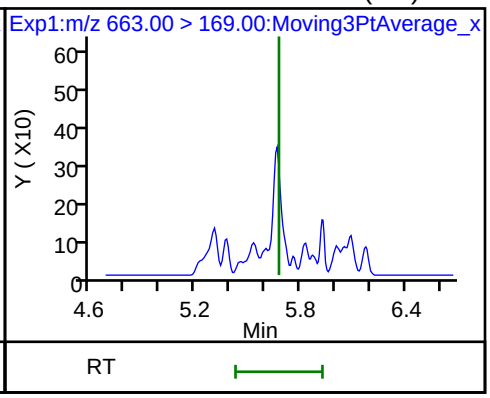
57 Perfluorododecanoic acid



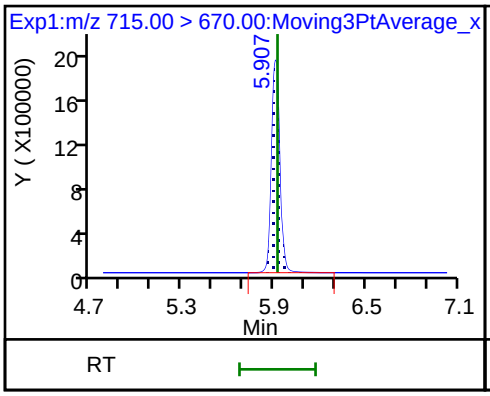
60 Perfluorotridecanoic acid (ND)



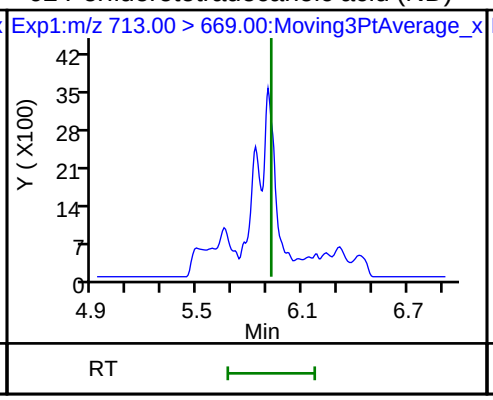
60 Perfluorotridecanoic acid (ND)



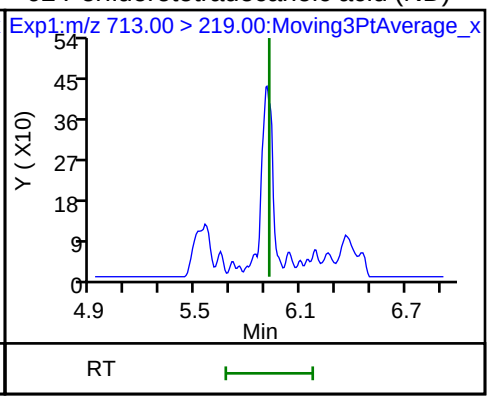
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

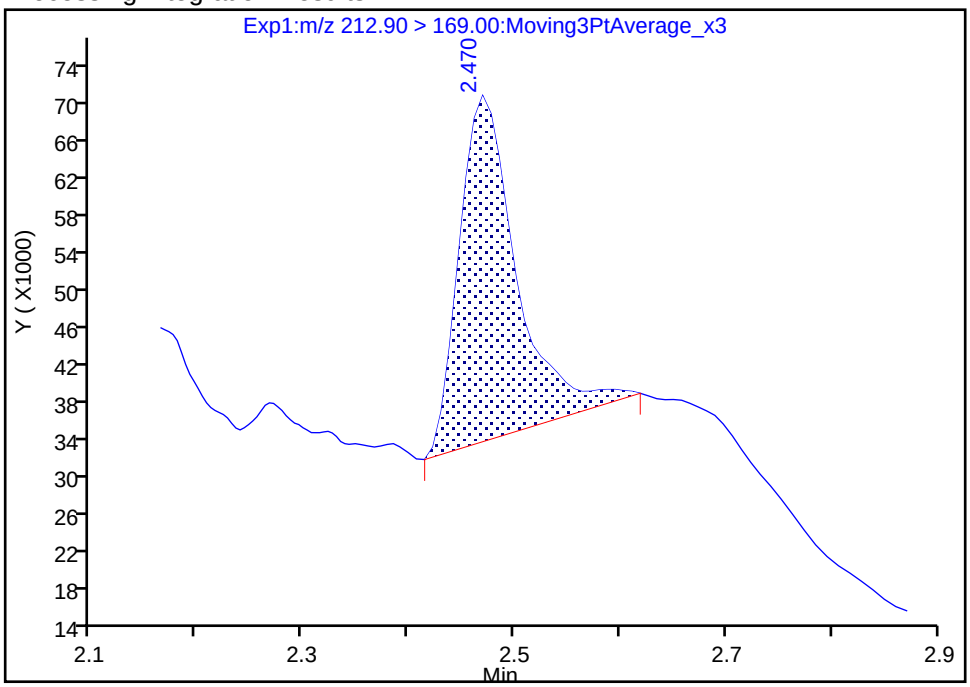
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

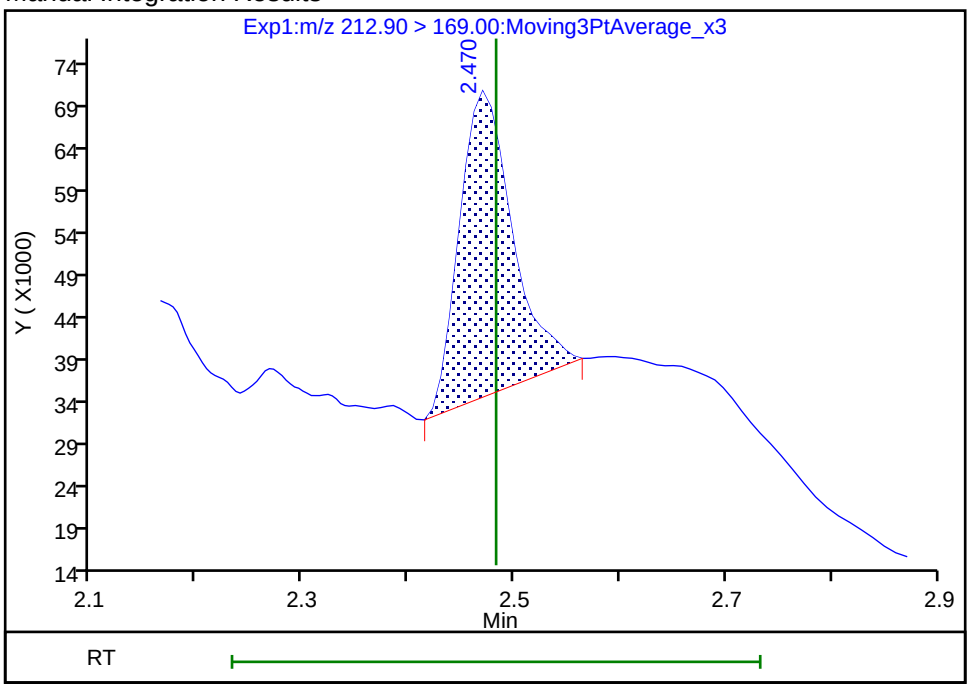
Processing Integration Results

RT: 2.47
Area: 138500
Amount: 0.108303
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 125178
Amount: 0.097885
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:29:52

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

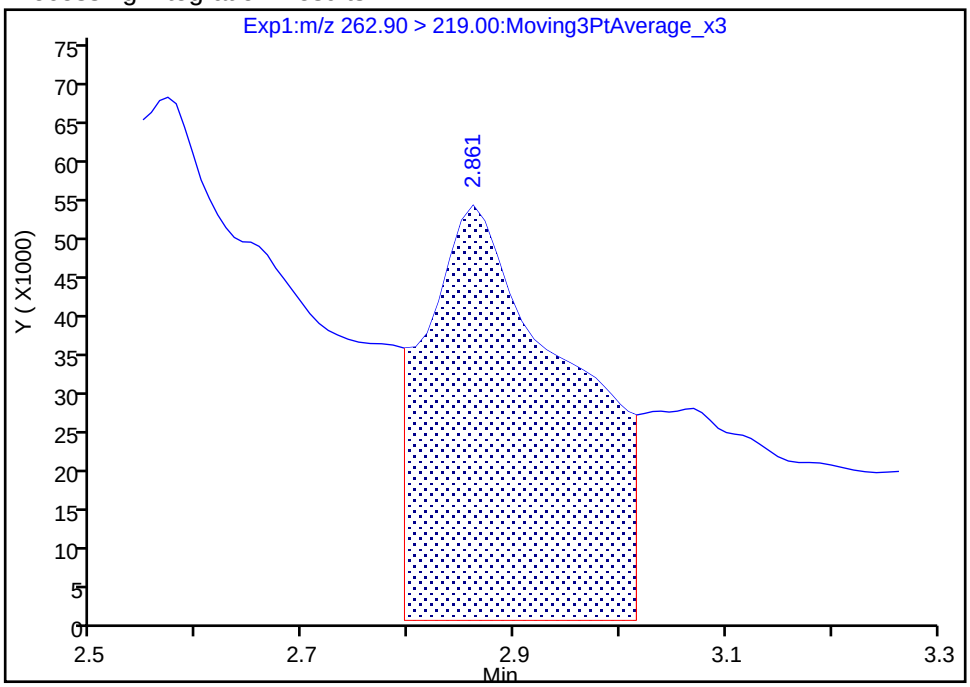
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

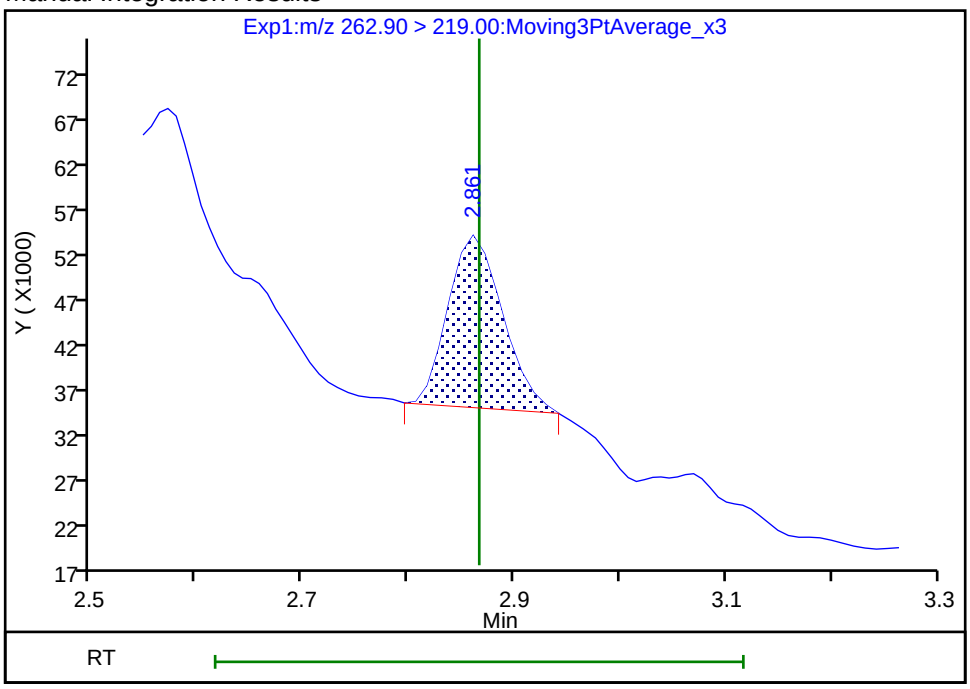
Processing Integration Results

RT: 2.86
Area: 507955
Amount: 0.312046
Amount Units: ng/ml



Manual Integration Results

RT: 2.86
Area: 68078
Amount: 0.041822
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:29:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

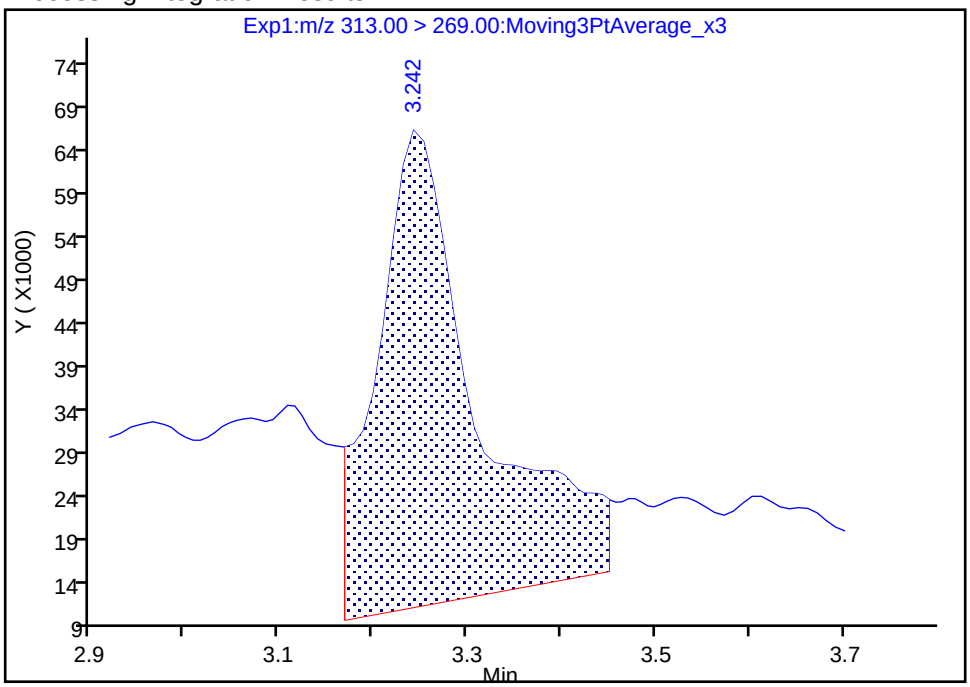
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

10 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

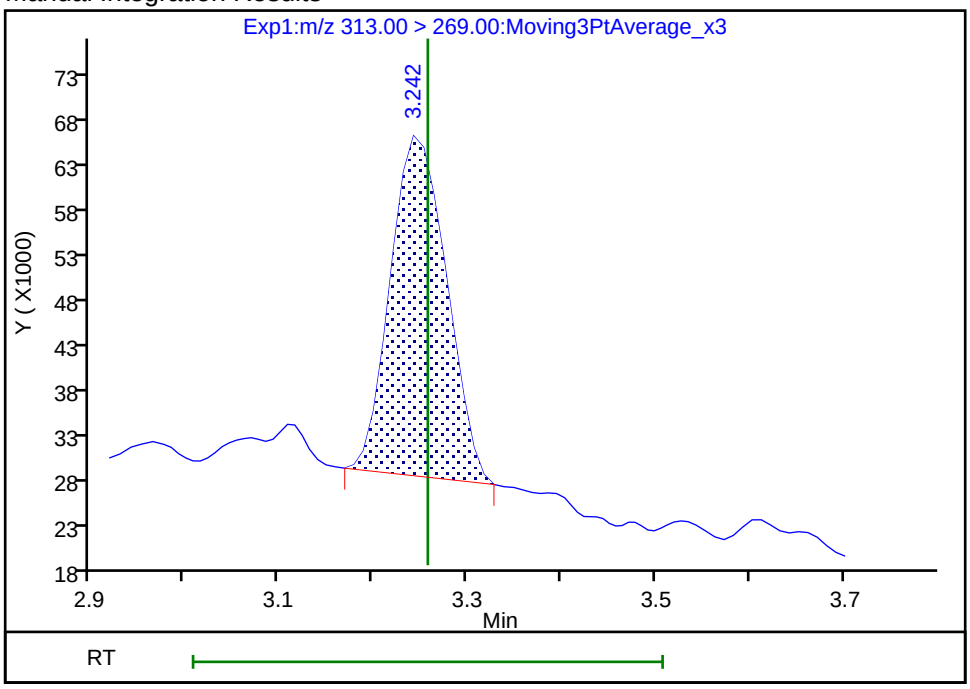
Processing Integration Results

RT: 3.24
Area: 413875
Amount: 0.182874
Amount Units: ng/ml



Manual Integration Results

RT: 3.24
Area: 155887
Amount: 0.068880
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:10

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

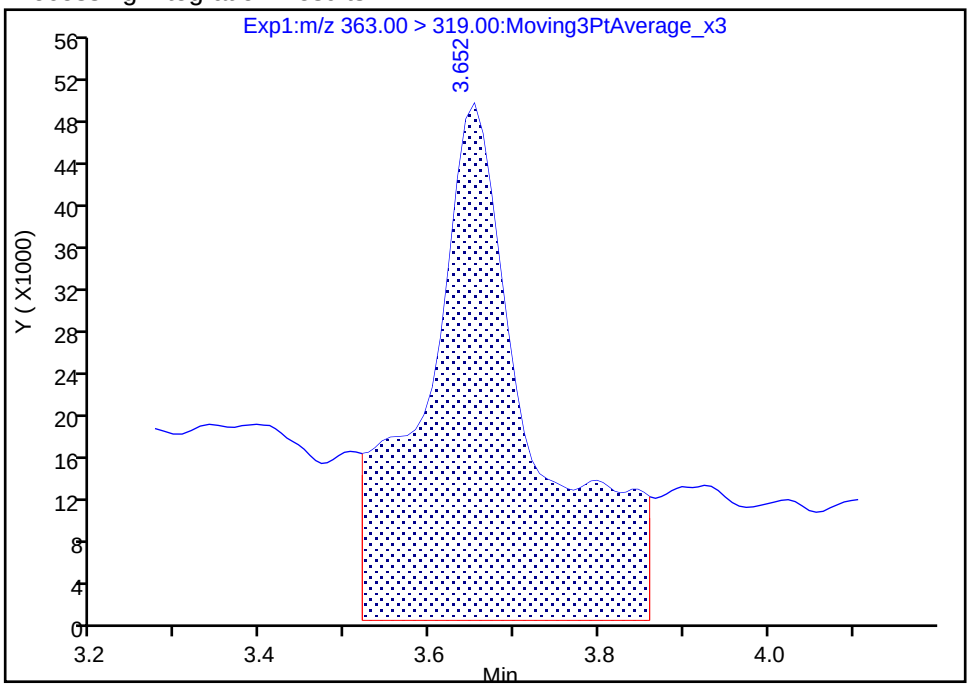
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

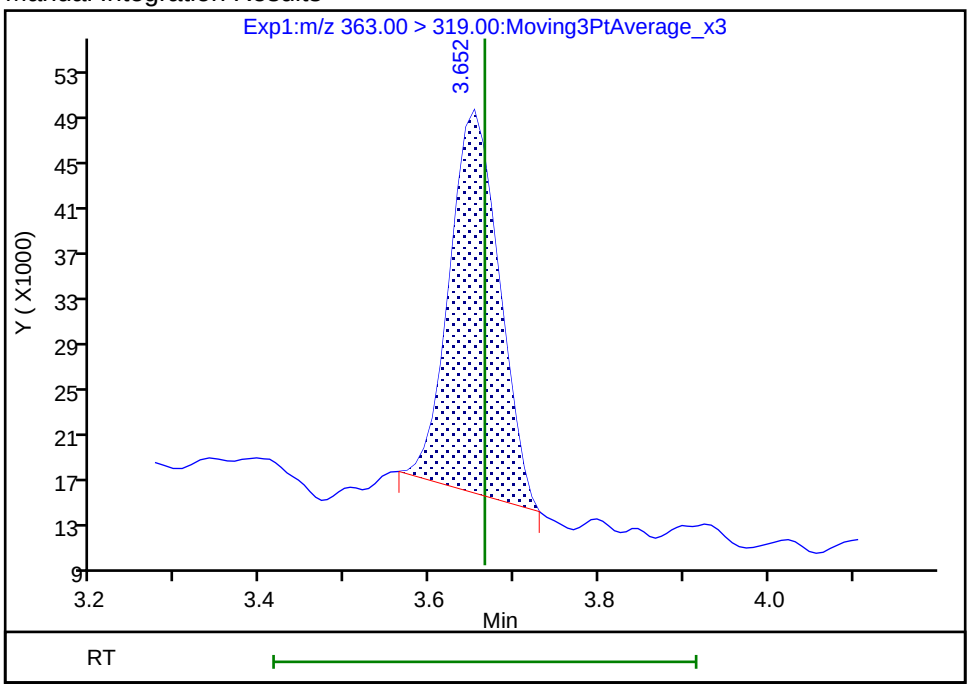
Processing Integration Results

RT: 3.65
Area: 434256
Amount: 0.176113
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 136049
Amount: 0.055175
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:16
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

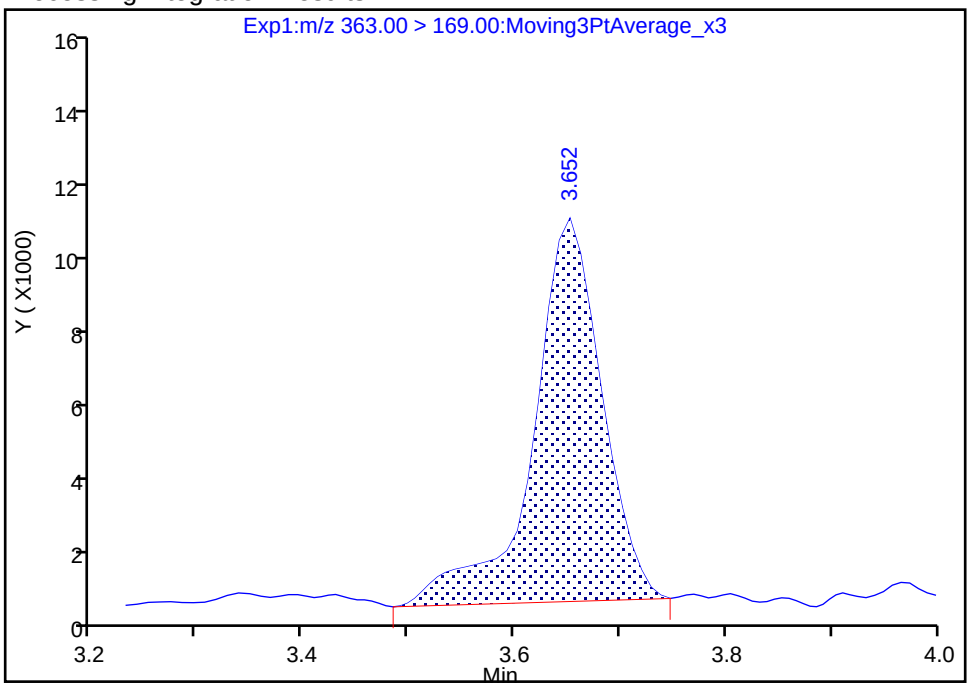
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

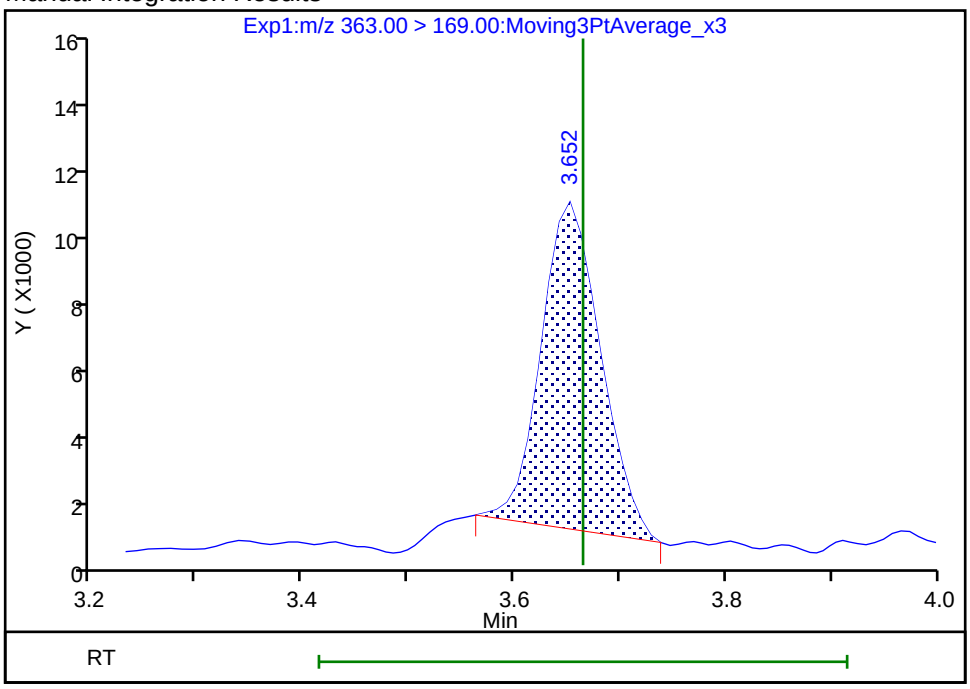
Processing Integration Results

RT: 3.65
Area: 47281
Amount: 0.176113
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 38311
Amount: 0.055175
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

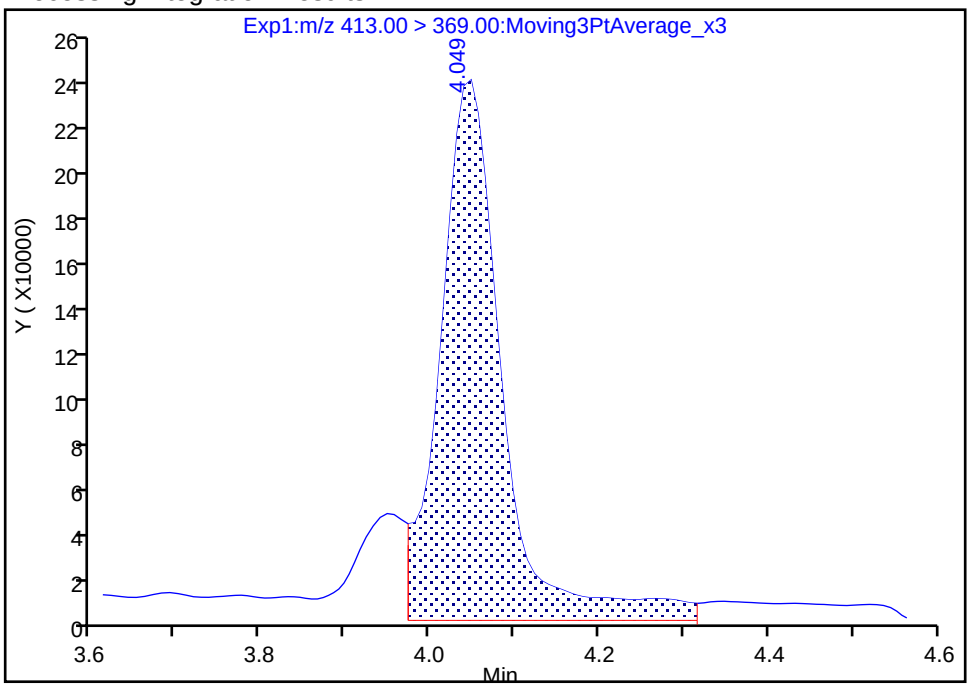
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

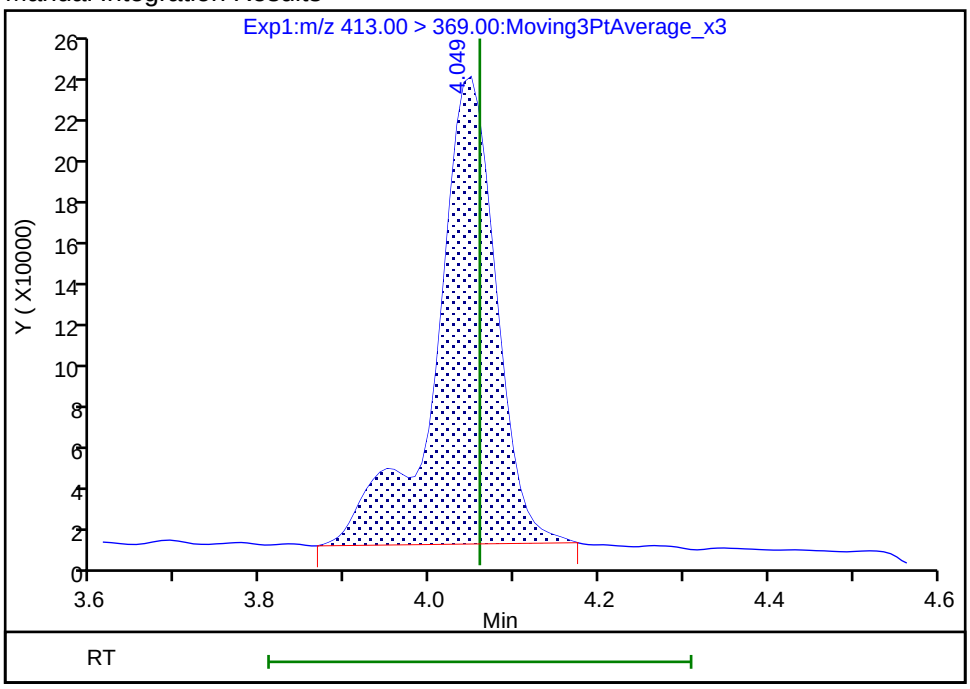
Processing Integration Results

RT: 4.05
Area: 1190313
Amount: 0.391423
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 1119370
Amount: 0.368094
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

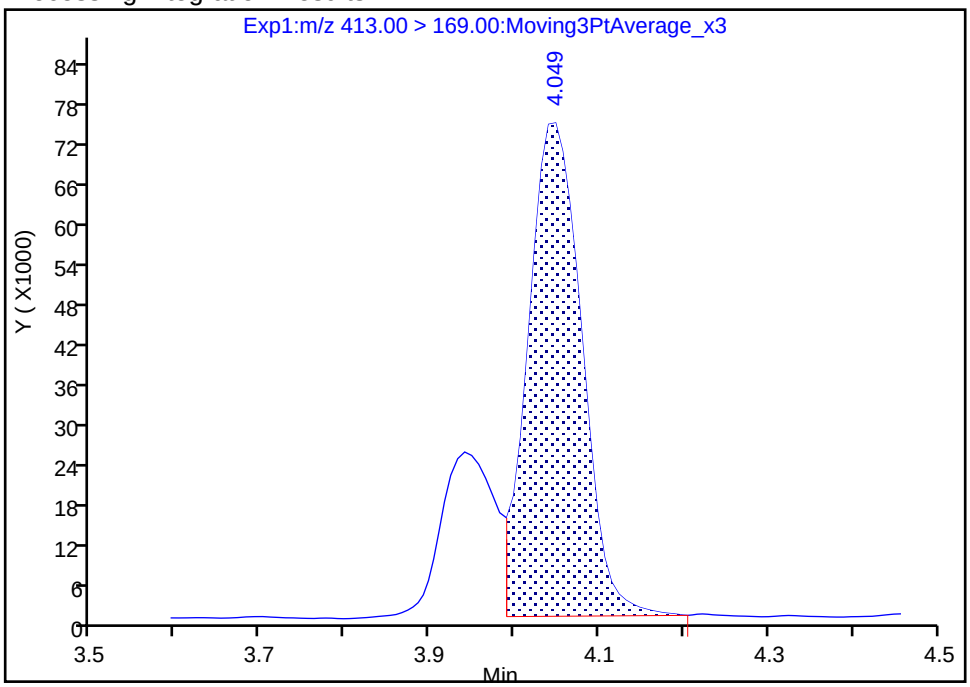
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

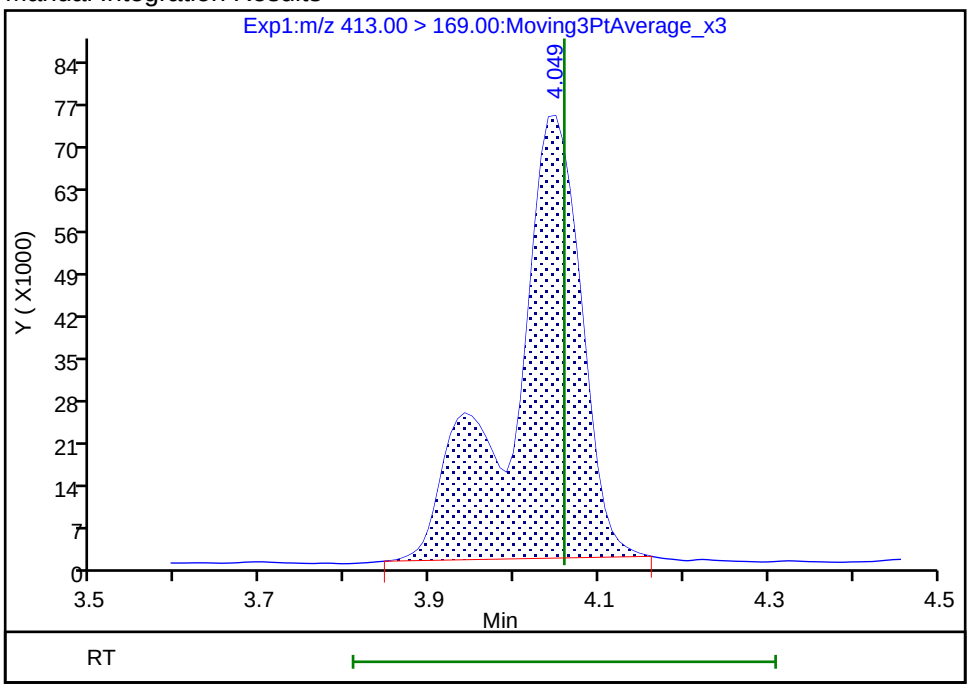
Processing Integration Results

RT: 4.05
Area: 325491
Amount: 0.391423
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 424737
Amount: 0.368094
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

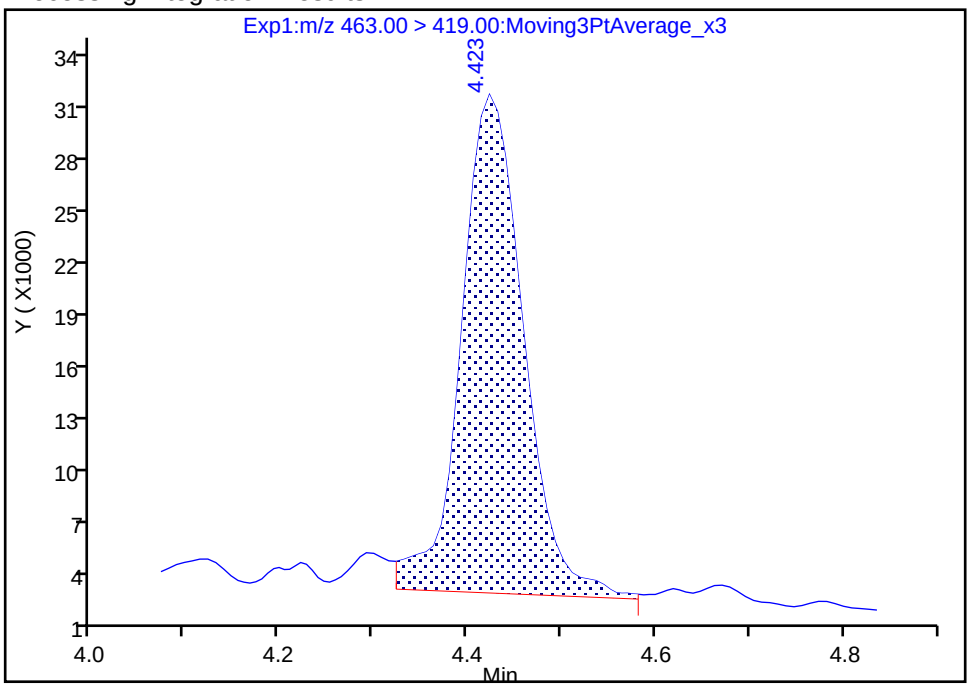
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

30 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

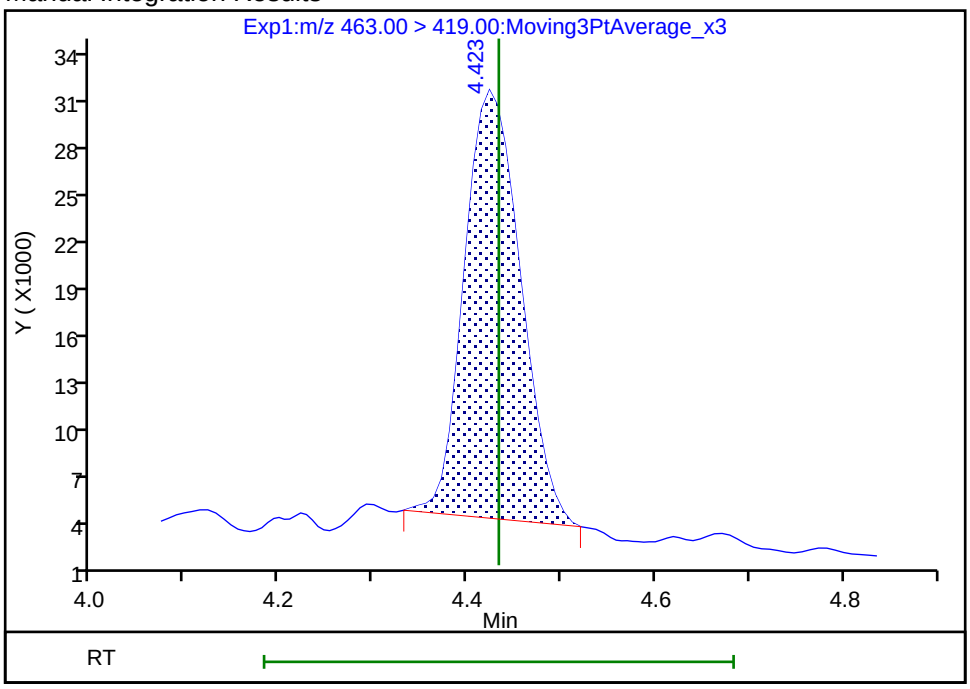
Processing Integration Results

RT: 4.42
Area: 131981
Amount: 0.046948
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 113072
Amount: 0.040221
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:53

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

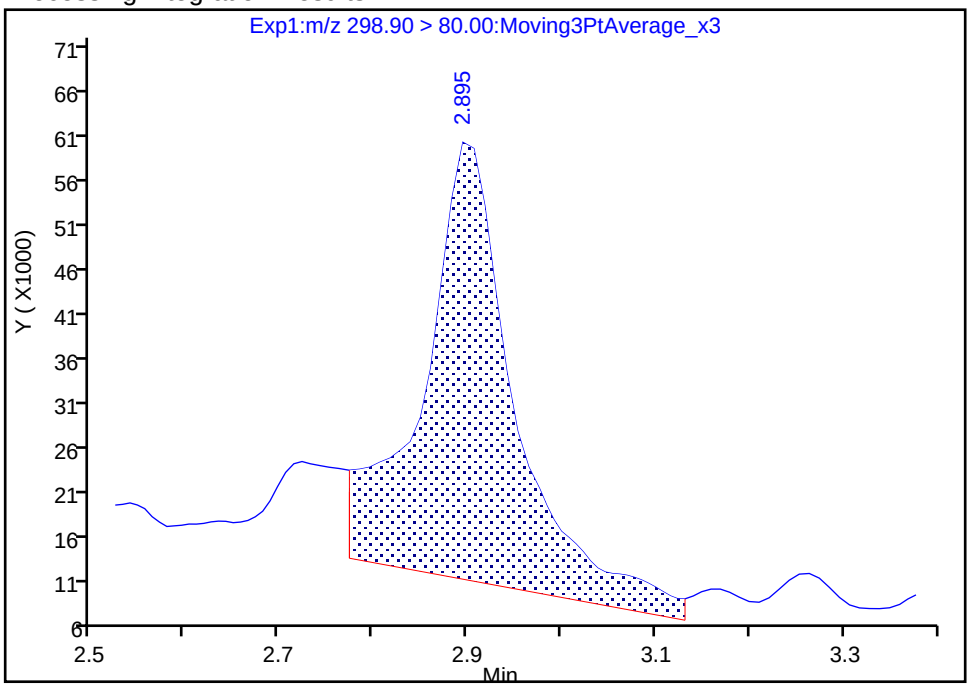
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

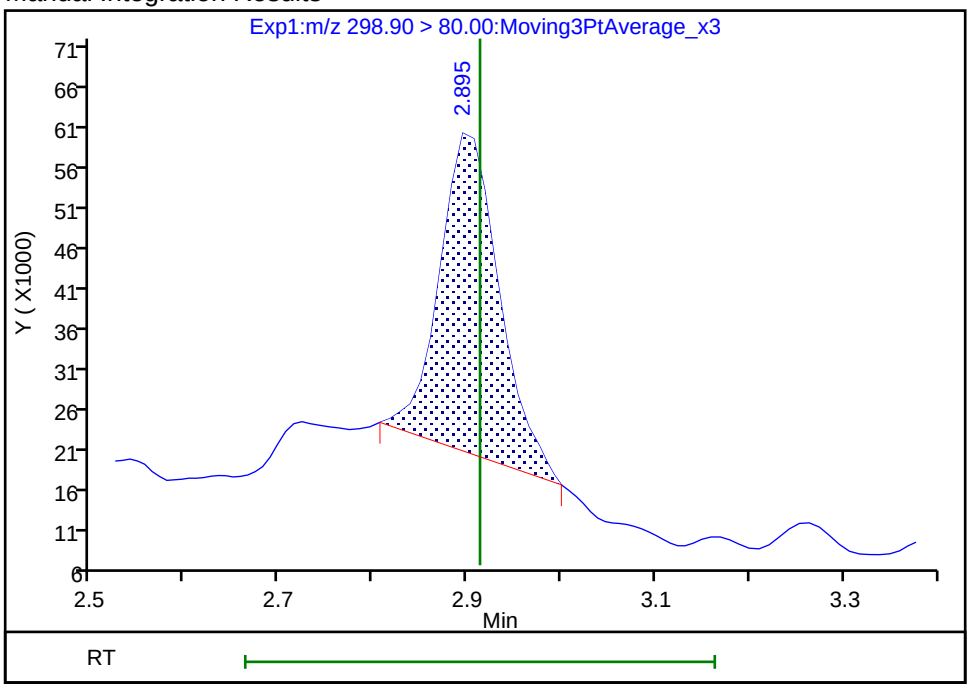
Processing Integration Results

RT: 2.89
Area: 331186
Amount: 0.108679
Amount Units: ng/ml



Manual Integration Results

RT: 2.89
Area: 172554
Amount: 0.056624
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:04
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

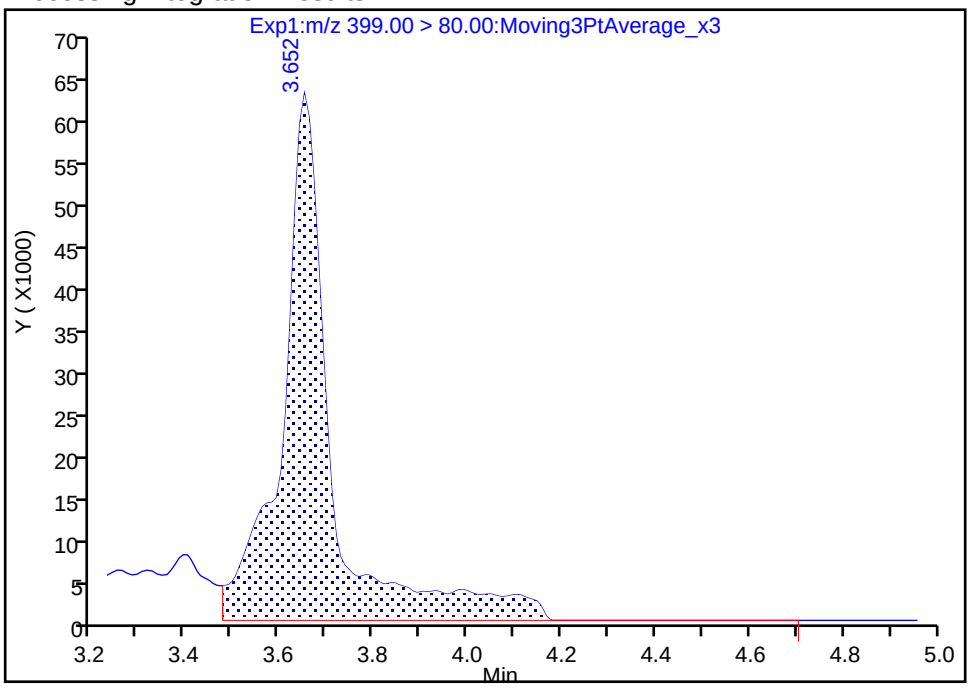
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

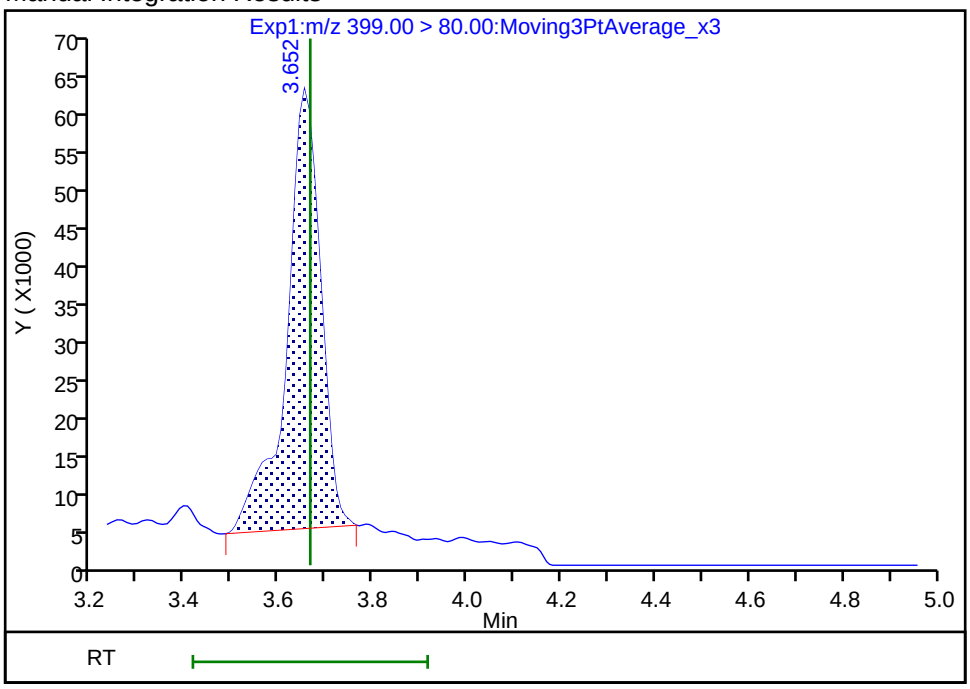
Processing Integration Results

RT: 3.65
Area: 457619
Amount: 0.187041
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 291786
Amount: 0.119261
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

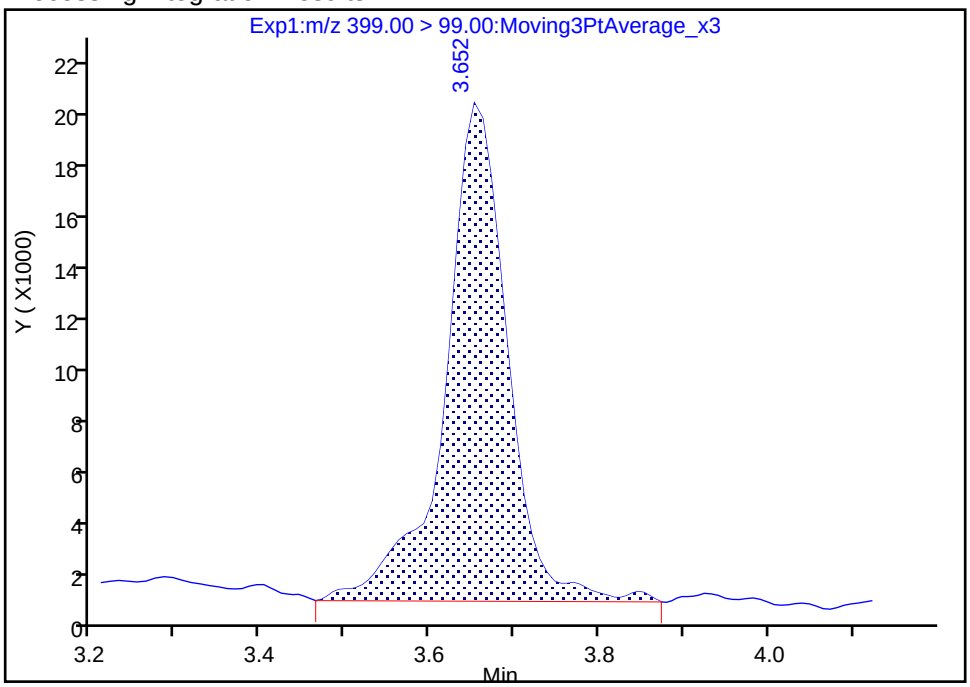
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

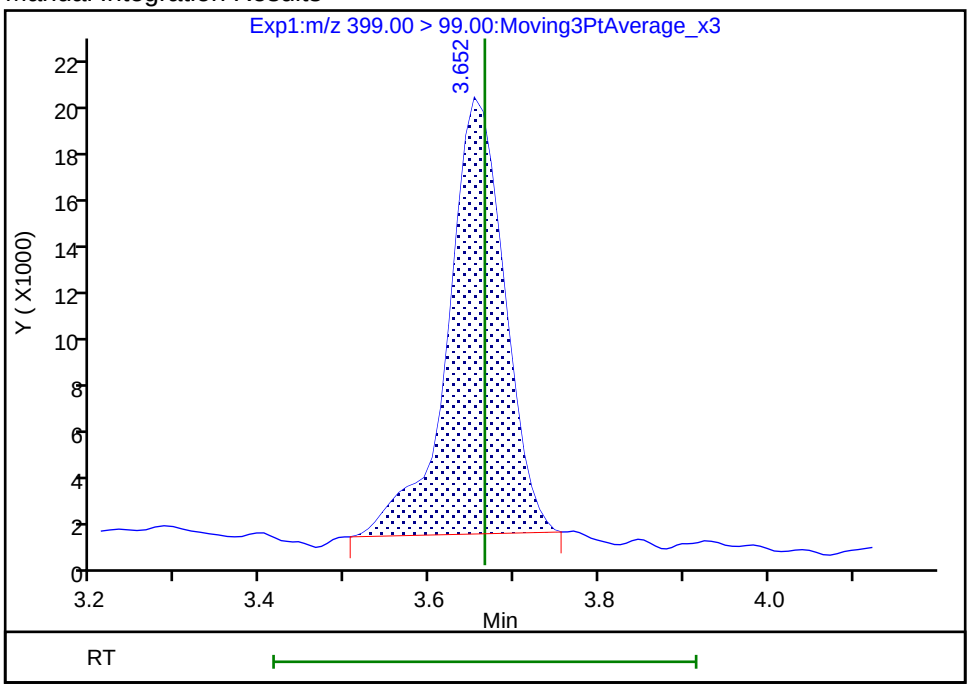
Processing Integration Results

RT: 3.65
Area: 97958
Amount: 0.187041
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 86134
Amount: 0.119261
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:30
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

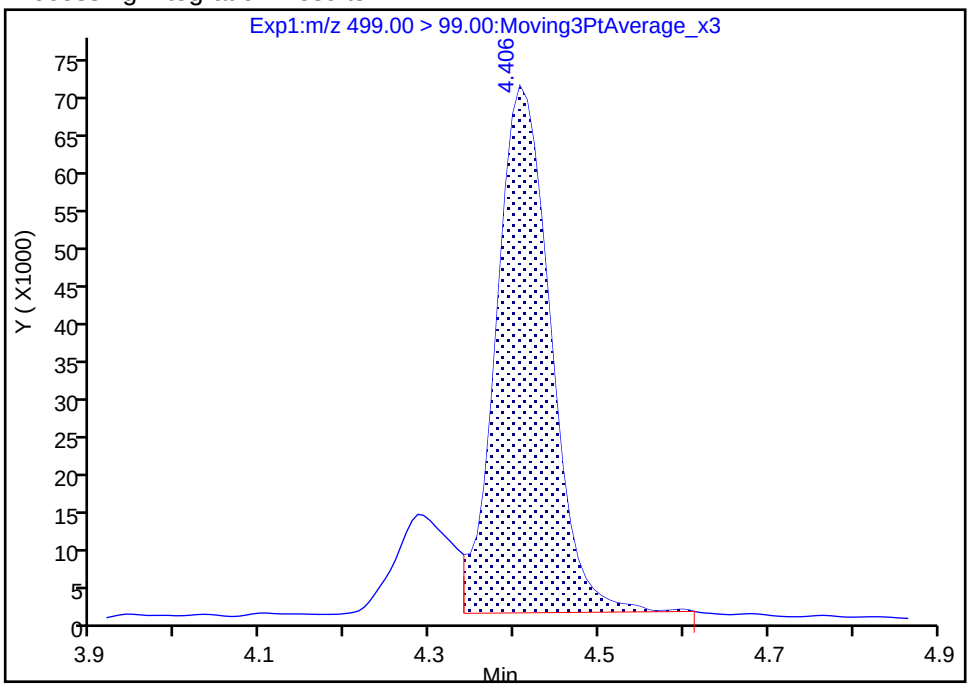
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_068.d				
Injection Date:	10-Sep-2020 19:32:36	Instrument ID:	A13		
Lims ID:	460-217659-D-7-A	Lab Sample ID:	320-217659-7		
Client ID:	MW-217				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	41	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

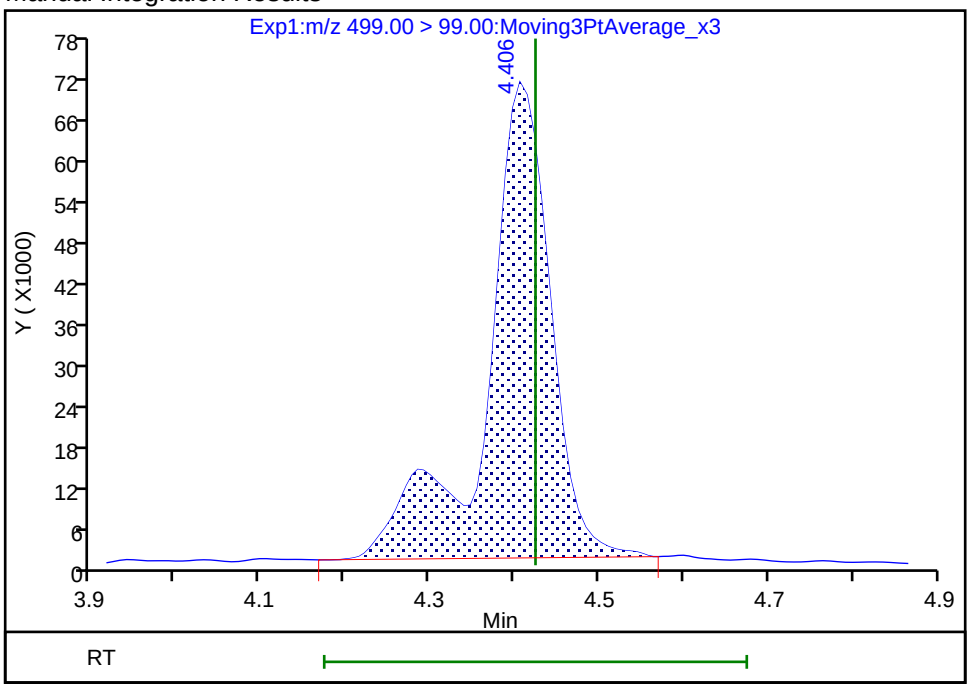
Processing Integration Results

RT: 4.41
Area: 311280
Amount: 1.120568
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 370054
Amount: 1.120568
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:30:47
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217659-8

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_071.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 15:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 275.1(mL) Date Analyzed: 09/10/2020 20:00

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.32	U	1.82	0.32
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.45	U	1.82	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	0.53	U	1.82	0.53
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23	U	1.82	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	0.77	U	1.82	0.77
375-95-1	Perfluorononanoic acid (PFNA)	0.25	U	1.82	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.28	U	1.82	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.0	U	1.82	1.0
307-55-1	Perfluorododecanoic acid (PFDoA)	0.50	U	1.82	0.50
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.18	U	1.82	1.18
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.82	0.26
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	U	1.82	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.28	J B	1.82	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.17	U	1.82	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.49	U	1.82	0.49
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.29	U	1.82	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.32	U	1.82	0.32
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.82	U	18.2	2.82
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.73	U	18.2	1.73
27619-97-2	6:2 FTS	1.82	U	18.2	1.82
39108-34-4	8:2 FTS	1.82	U	18.2	1.82

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: FB Lab Sample ID: 460-217659-8

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_071.d

Analysis Method: 537 (modified) Date Collected: 09/03/2020 15:00

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 275.1(mL) Date Analyzed: 09/10/2020 20:00

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	83		25-150
STL01893	13C5 PFPeA	87		25-150
STL00993	13C2 PFHxA	88		25-150
STL01892	13C4 PFHpA	86		25-150
STL00990	13C4 PFOA	81		25-150
STL00995	13C5 PFNA	86		25-150
STL00996	13C2 PFDA	82		25-150
STL00997	13C2 PFUnA	77		25-150
STL00998	13C2 PFDoA	77		25-150
STL02116	13C2 PFTeDA	68		25-150
STL02337	13C3 PFBS	98		25-150
STL00994	18O2 PFHxS	93		25-150
STL00991	13C4 PFOS	92		25-150
STL01056	13C8 FOSA	80		25-150
STL02118	d3-NMeFOSAA	77		25-150
STL02117	d5-NEtFOSAA	82		25-150
STL02279	M2-6:2 FTS	93		25-150
STL02280	M2-8:2 FTS	93		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d
Lims ID: 460-217659-D-8-A
Client ID: FB
Sample Type: Client
Inject. Date: 10-Sep-2020 20:00:47 ALS Bottle#: 42 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 460-217659-d-8-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 11:11:00 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 11:11:00
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_070.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.609	7603943	2.08		83.2	9043	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.475	2.482	-0.007	1.003	17347	0.007673			1.2	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.867	-0.001	0.708	6208105	2.18		87.1	5431	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.866	2.867	-0.001	1.000	25554	0.0100			1.1	M
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.716	8132620	2.27		97.7	13588	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.901	2.913	-0.012	1.000	6683	0.001954	Target=2.18		5.7	M
298.90 > 99.00	2.913	2.913	0.0	1.004	3012		2.22(1.09-3.26)		1.2	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.802	7745532	2.20		88.0	10031	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	5170124	2.20		93.2	27143	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.665	3.665	0.0	1.003	18532	0.007621	Target=2.97		24.6	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	6471		2.86(1.48-4.45)		4.2	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	7489795	2.16		86.4	7917	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.034	4.042	-0.008	0.996	2229929	2.21		92.9	1465	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	0.998	16946	0.007499			16.2	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.000	8529322	2.01		80.5	5683	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.051	4.059	-0.008	1.000	30859	0.008842	Target=2.98		3.8	M
413.00 > 169.00	4.051	4.059	-0.008	1.000	9555		3.23(1.49-4.46)		9.4	M
* 25 13C2 PFOA										
415.00 > 370.00	4.051	4.059	-0.008		10757736	2.50			12379	
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.089	3687140	2.20		92.2	2712	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.093	8420701	2.15		86.0	8593	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.169	4793743	1.99		79.8	4955	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	9341	0.005192			33.5	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	9752103	2.06		82.2	5359	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	2967973	2.22		92.7	3555	
39 8:2 FTS										
527.00 > 507.00	4.795	4.802	-0.007	1.002	3737	0.001220			15.0	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.942	4.959	-0.017	1.220	4727474	1.93		77.3	4272	
41 NMeFOSAA										
570.00 > 419.00	4.961	4.959	0.002	1.004	12226	0.008027			4.8	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.261	8973937	1.93		77.4	8013	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.106	5.123	-0.017	1.261	4871726	2.06		82.3	2235	
48 NEtFOSA										M
584.00 > 419.00	5.115	5.132	-0.017	1.002	15932	0.0106			29.5	M
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.332	9557422	1.91		76.6	6070	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.671	5.676	-0.005	1.051	10046	0.002804	Target=7.64		7.4	
663.00 > 169.00	5.663	5.676	-0.013	1.049	1255		8.00(3.82-11.46)		8.5	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.905	5.920	-0.015	1.458	8334352	1.69		67.6	6594	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 11:11:01 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d

Injection Date: 10-Sep-2020 20:00:47 Instrument ID: A13

Lims ID: 460-217659-D-8-A Lab Sample ID: 320-217659-8

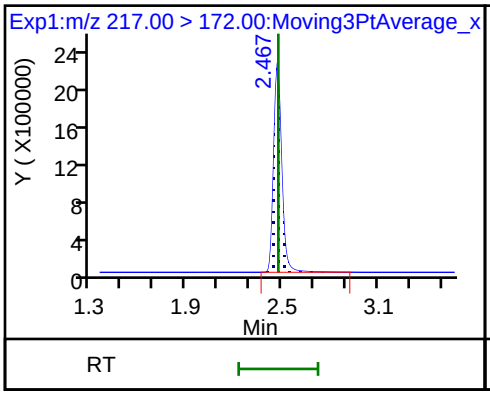
Client ID: FB

Operator ID: SACINSTLCMS01 ALS Bottle#: 42 Worklist Smp#: 14

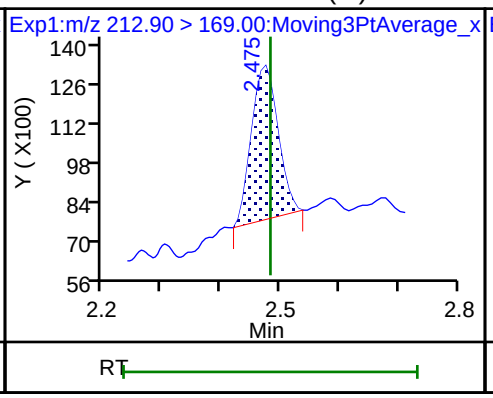
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

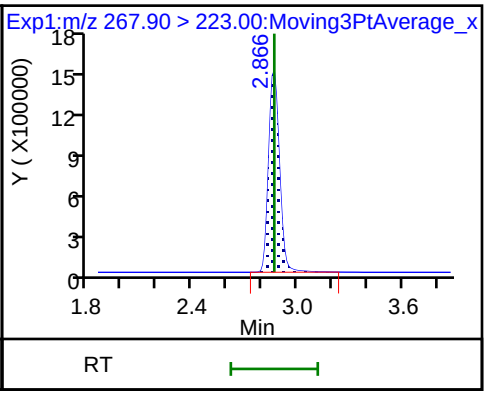
D 1 13C4 PFBA



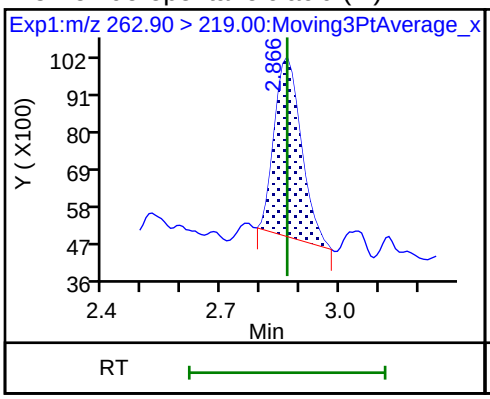
2 Perfluorobutanoic acid (M)



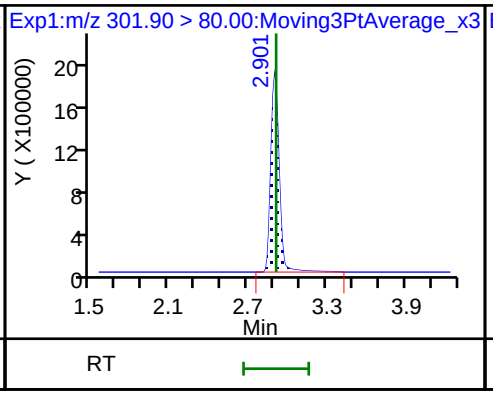
D 4 13C5 PFPeA



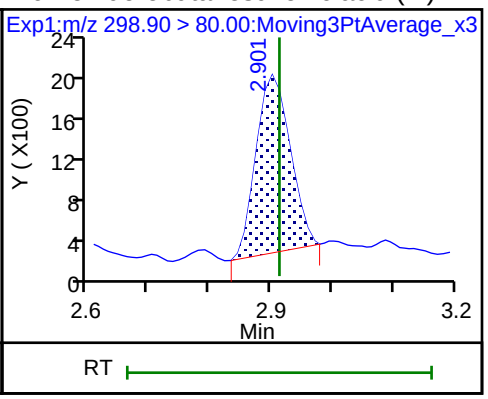
5 Perfluoropentanoic acid (M)



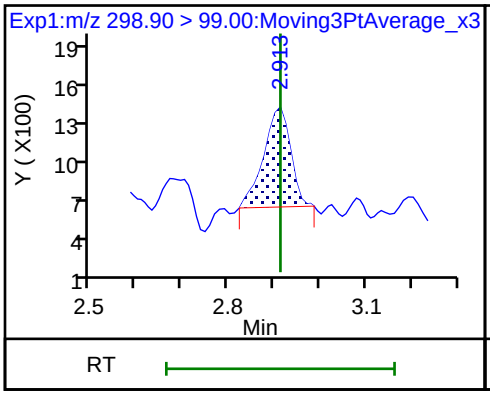
D 14 13C3 PFBS



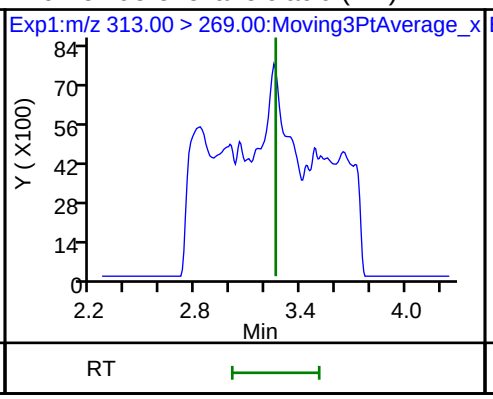
6 Perfluorobutanesulfonic acid (M)



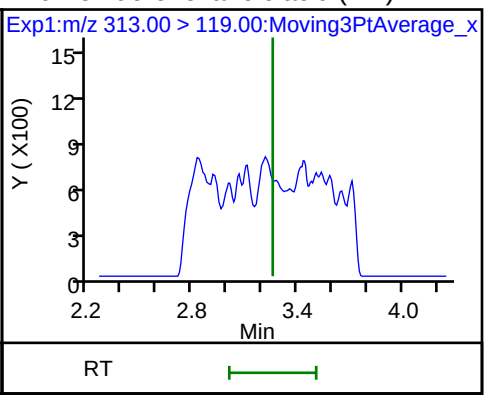
6 Perfluorobutanesulfonic acid



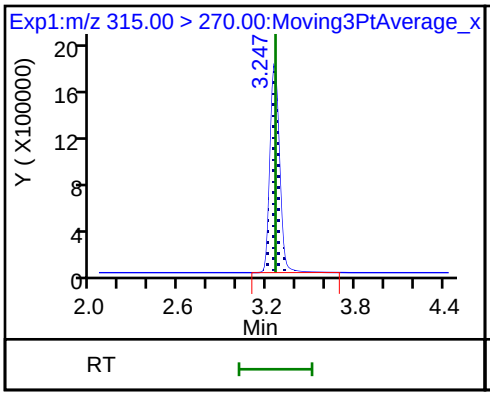
10 Perfluorohexanoic acid (ND)



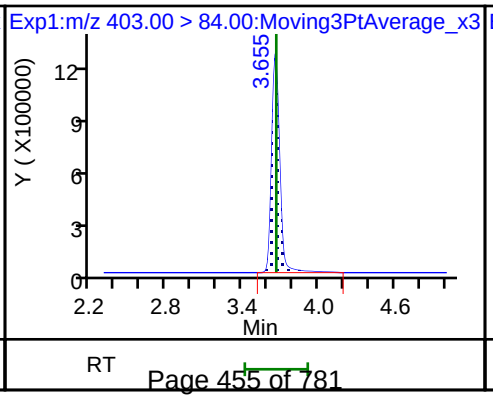
10 Perfluorohexanoic acid (ND)



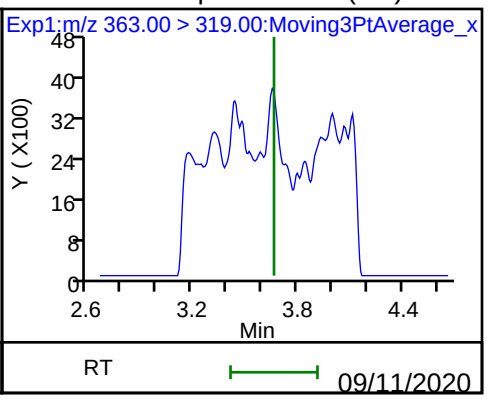
D 9 13C2 PFHxA



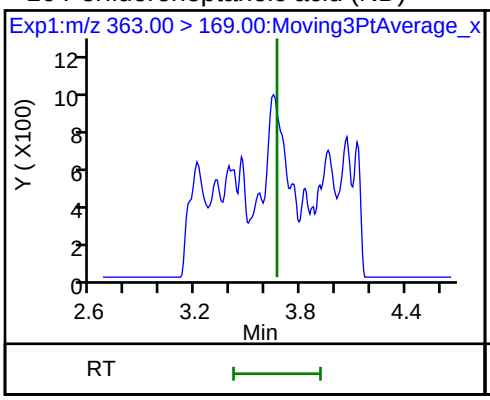
D 17 18O2 PFHxS



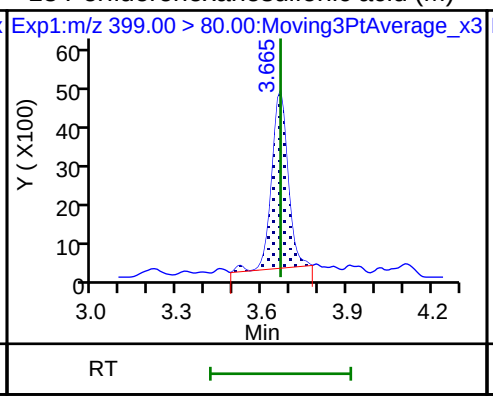
16 Perfluoroheptanoic acid (ND)



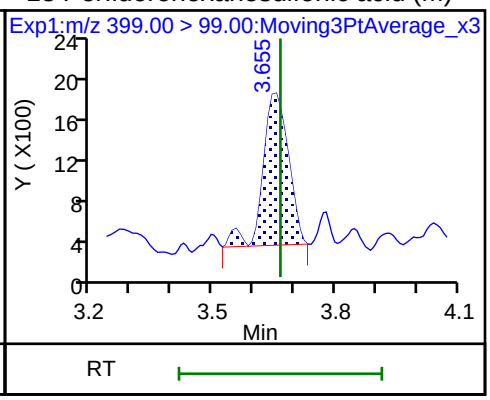
16 Perfluoroheptanoic acid (ND)



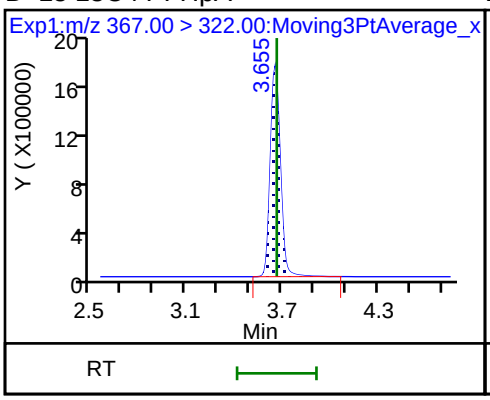
18 Perfluorohexanesulfonic acid (M)



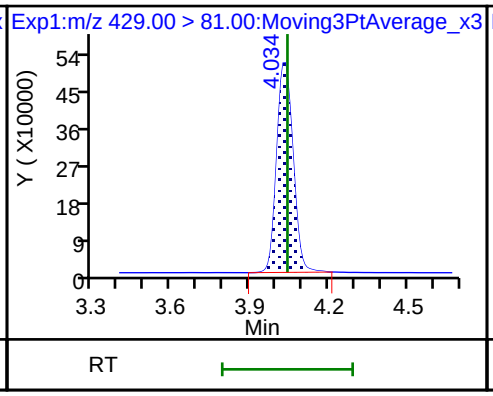
18 Perfluorohexanesulfonic acid (M)



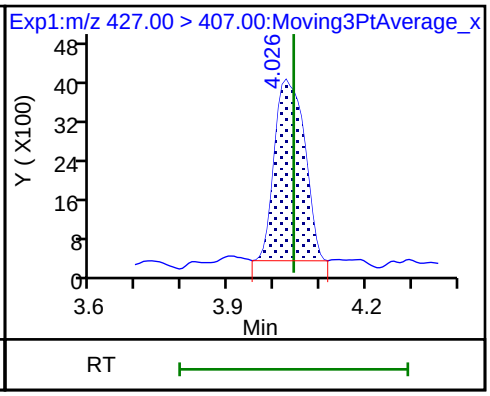
D 15 13C4 PFHpA



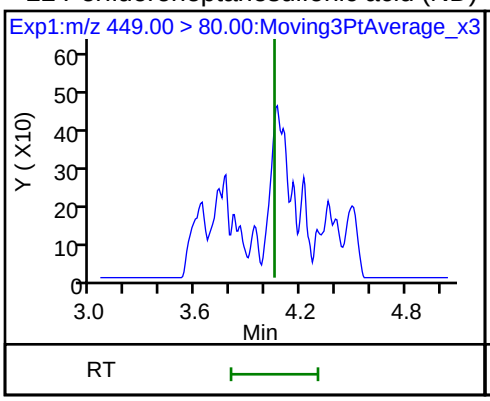
D 20 M2-6:2 FTS



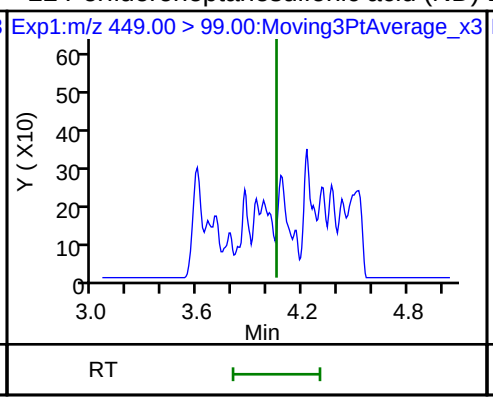
21 6:2 FTS



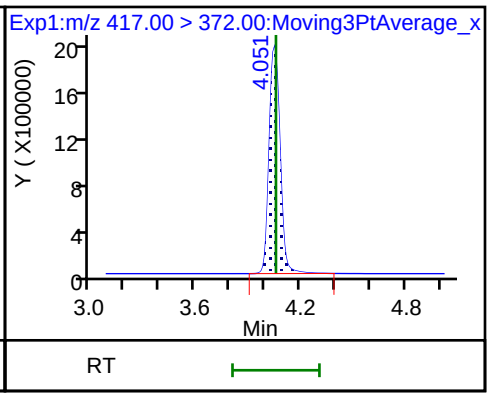
22 Perfluoroheptanesulfonic acid (ND)



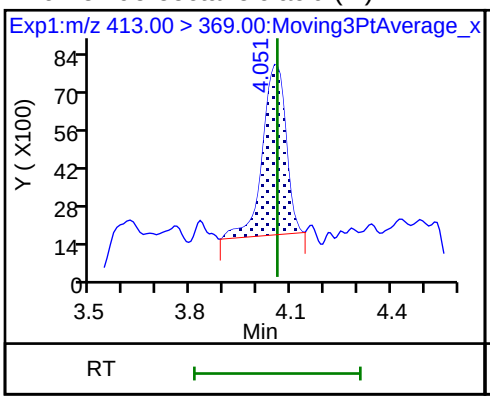
22 Perfluoroheptanesulfonic acid (ND)



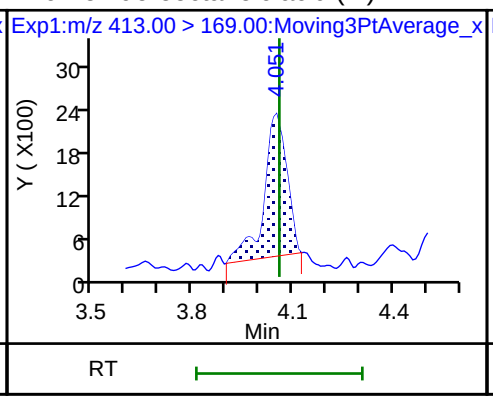
D 24 13C4 PFOA



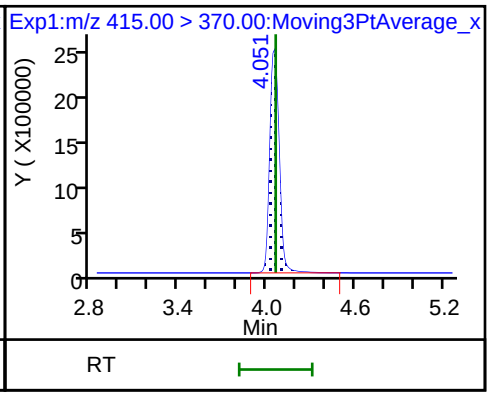
26 Perfluorooctanoic acid (M)



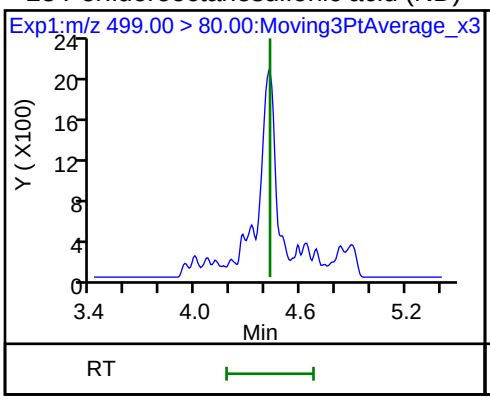
26 Perfluorooctanoic acid (M)



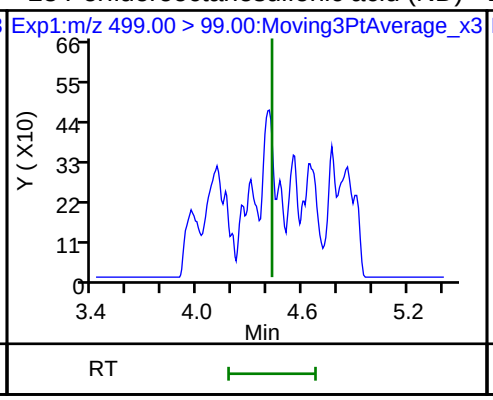
* 25 13C2 PFOA



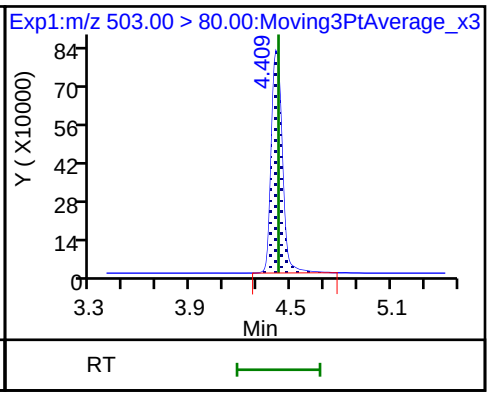
28 Perfluorooctanesulfonic acid (ND)



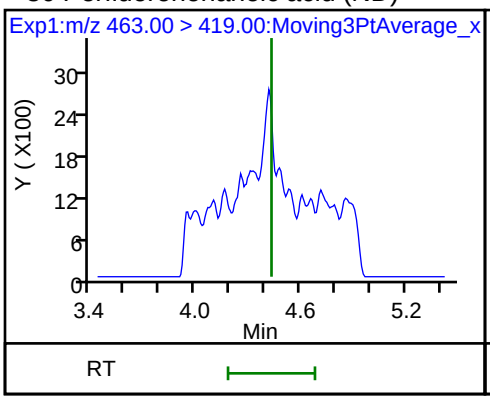
28 Perfluorooctanesulfonic acid (ND)



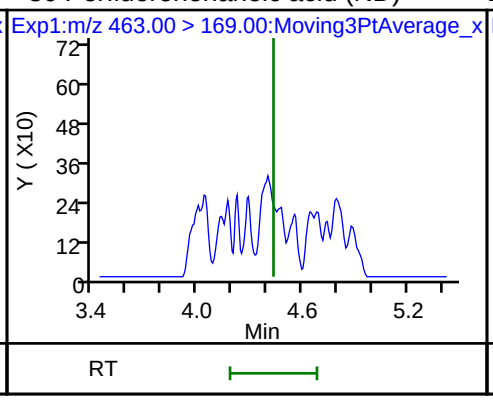
D 29 13C4 PFOS



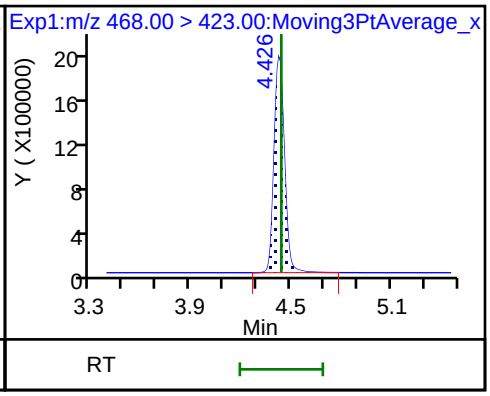
30 Perfluorononanoic acid (ND)



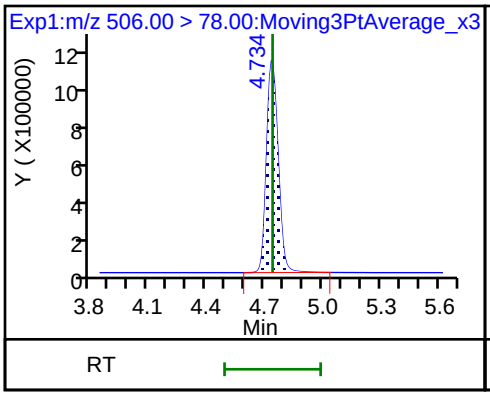
30 Perfluorononanoic acid (ND)



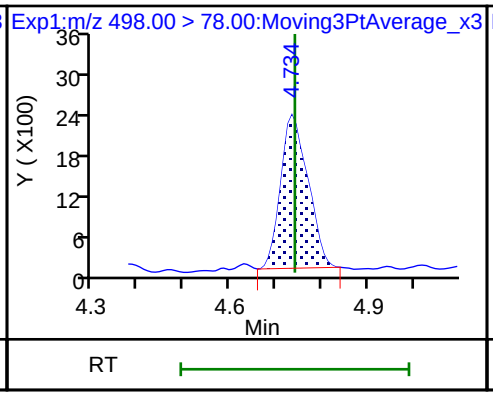
D 31 13C5 PFNA



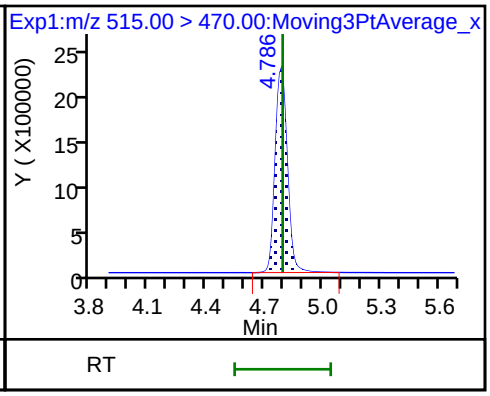
D 34 13C8 FOSA



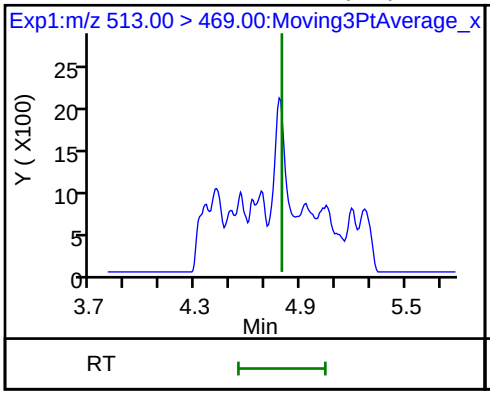
33 Perfluorooctanesulfonamide



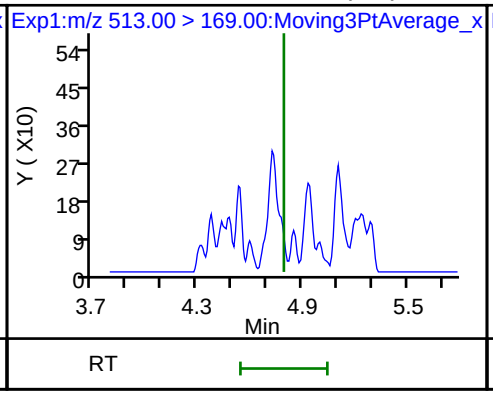
D 37 13C2 PFDA



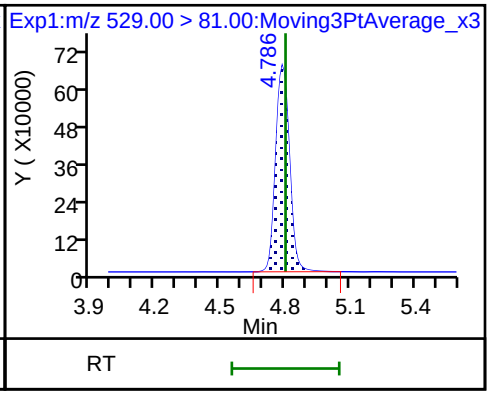
36 Perfluorodecanoic acid (ND)



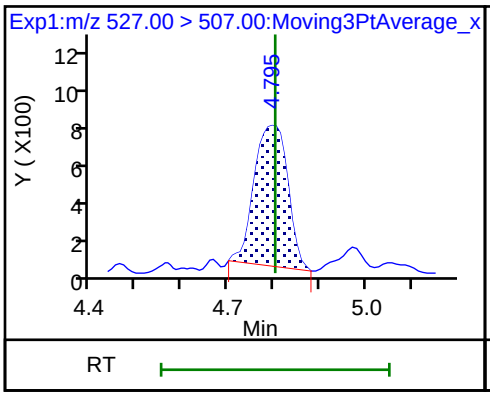
36 Perfluorodecanoic acid (ND)



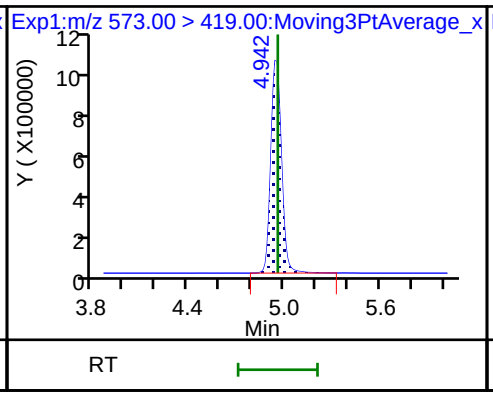
D 38 M2-8:2 FTS



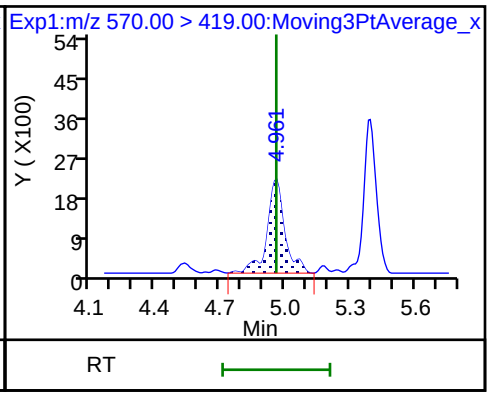
39 8:2 FTS



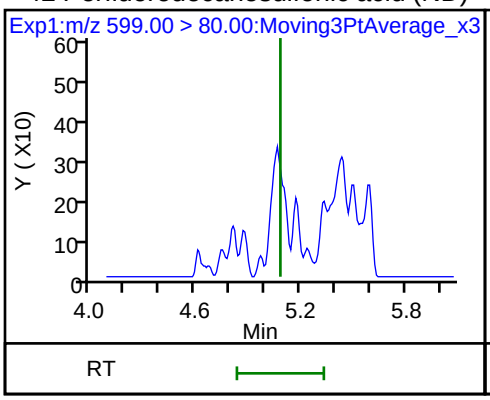
D 40 d3-NMeFOSAA



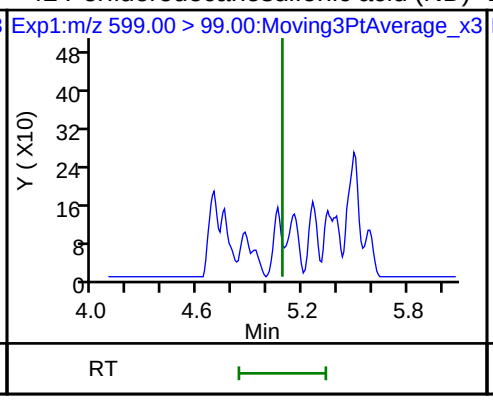
41 NMeFOSAA



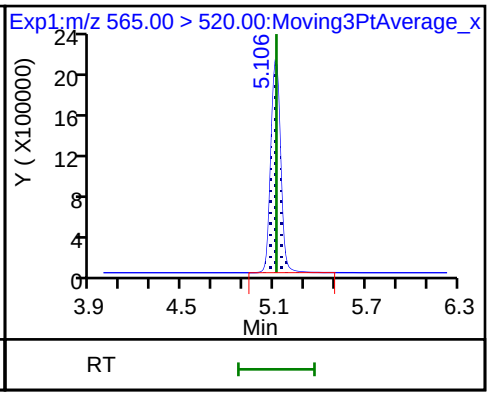
42 Perfluorodecanesulfonic acid (ND)



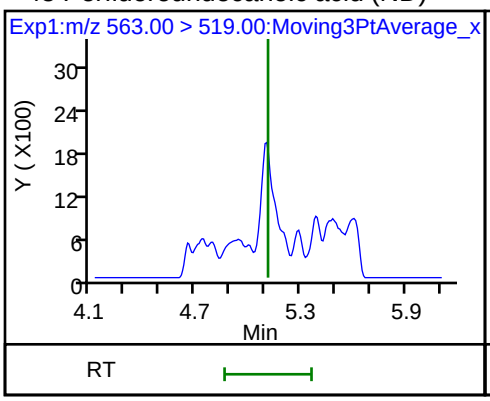
42 Perfluorodecanesulfonic acid (ND)



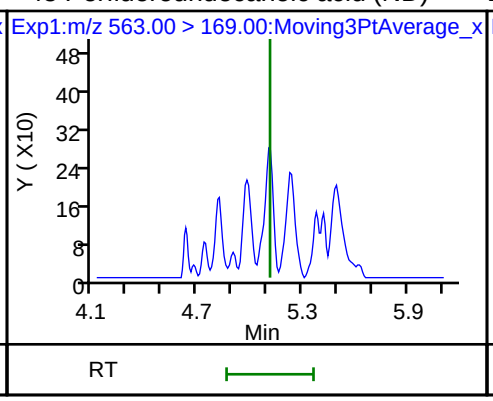
D 44 13C2 PFUnA



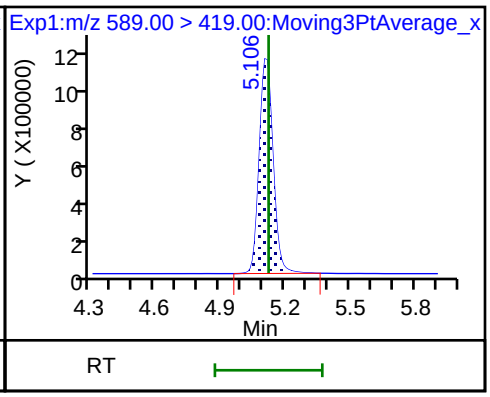
45 Perfluoroundecanoic acid (ND)



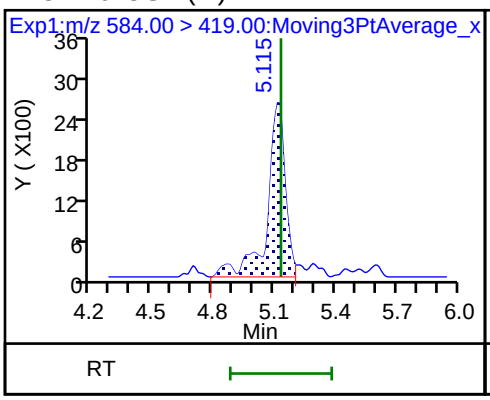
45 Perfluoroundecanoic acid (ND)



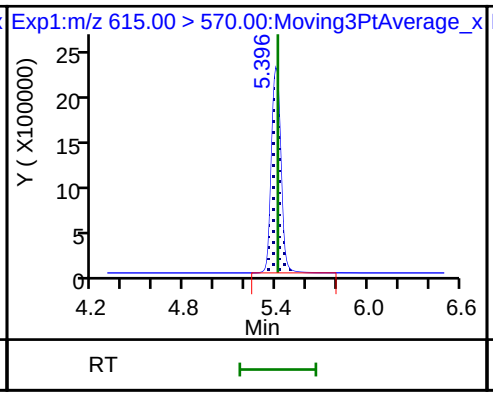
D 46 d5-NEtFOSAA



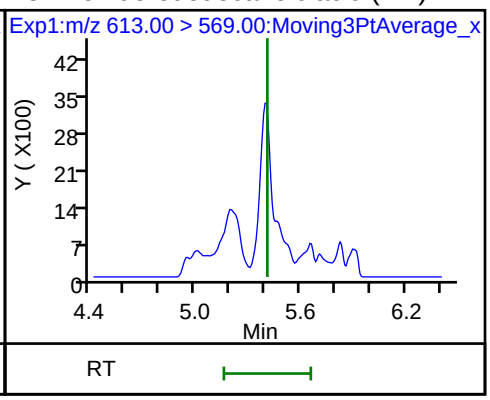
48 NEtFOSA (M)



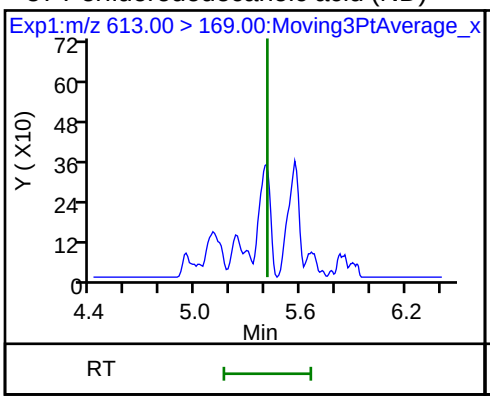
D 56 13C2 PFDoA



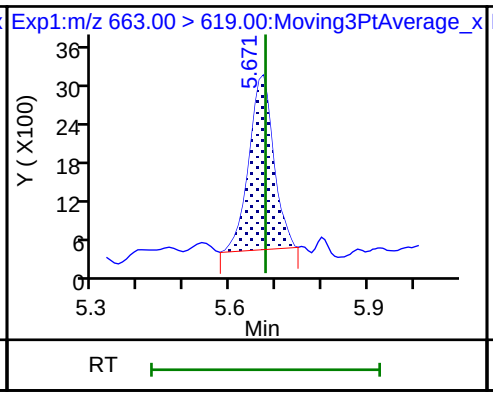
57 Perfluorododecanoic acid (ND)



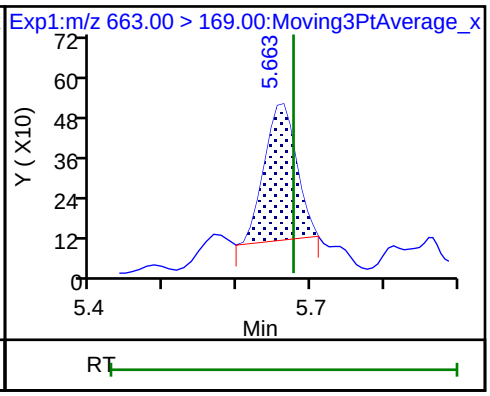
57 Perfluorododecanoic acid (ND)



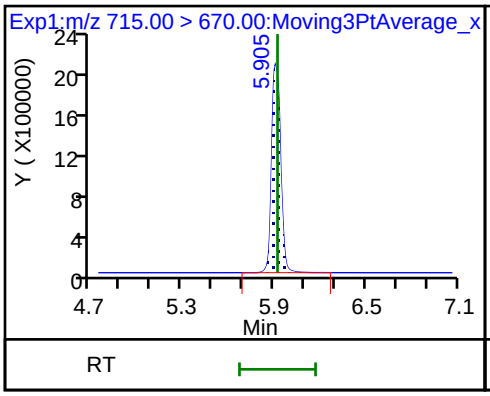
60 Perfluorotridecanoic acid



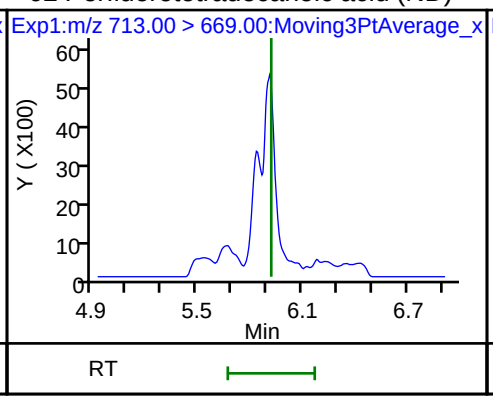
60 Perfluorotridecanoic acid



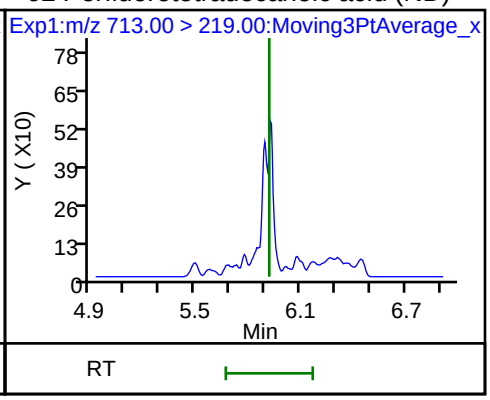
D 61 13C2 PFTeDA



62 Perfluorotetradecanoic acid (ND)



62 Perfluorotetradecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

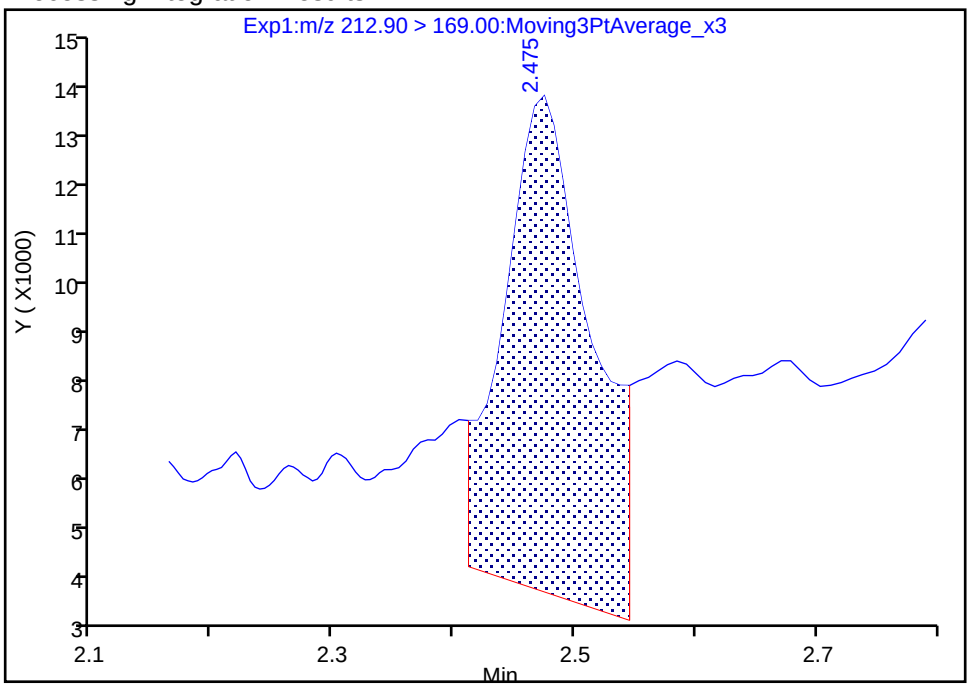
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

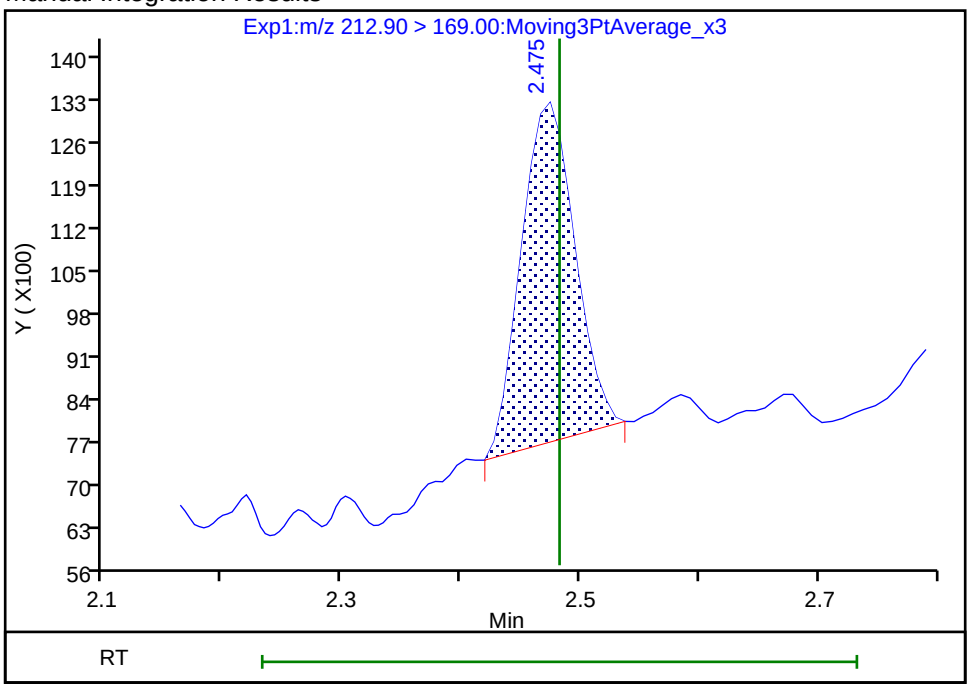
Processing Integration Results

RT: 2.47
Area: 44799
Amount: 0.019817
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 17347
Amount: 0.007673
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

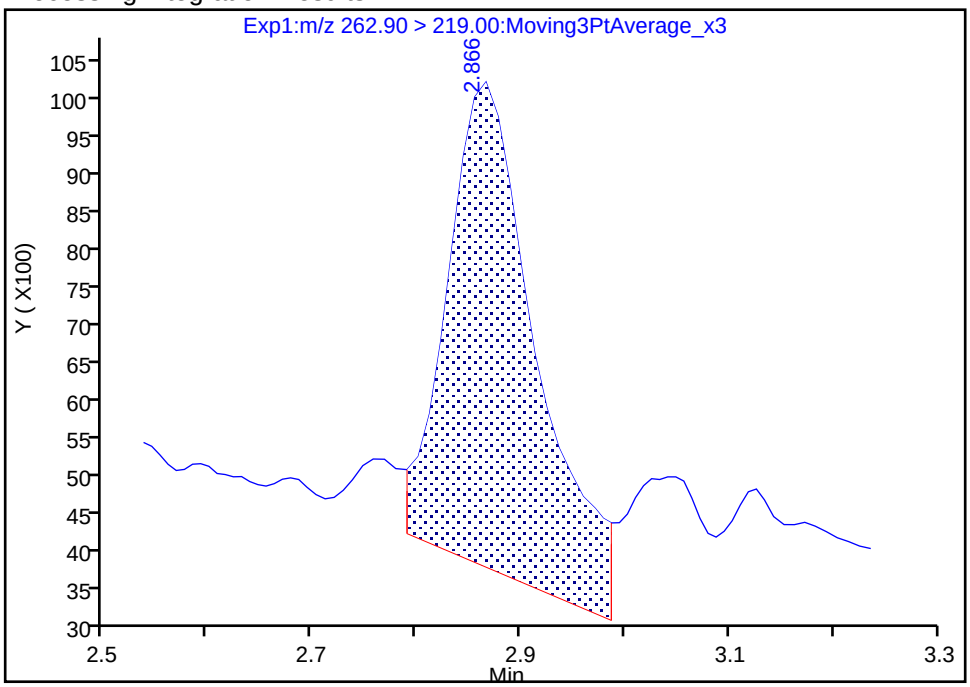
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

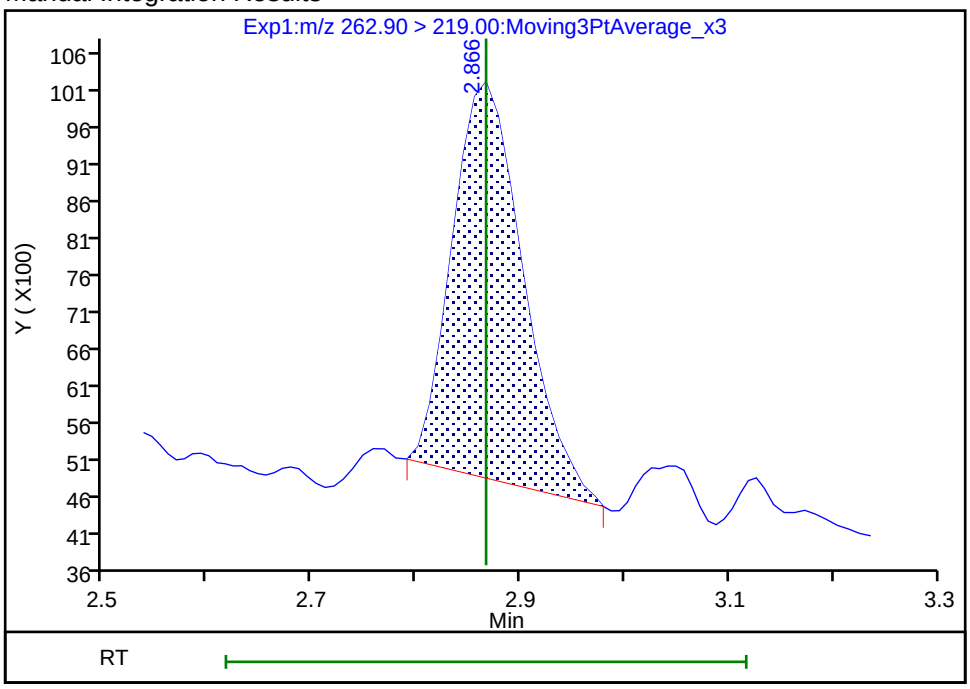
Processing Integration Results

RT: 2.87
Area: 38364
Amount: 0.015031
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 25554
Amount: 0.010012
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:08

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

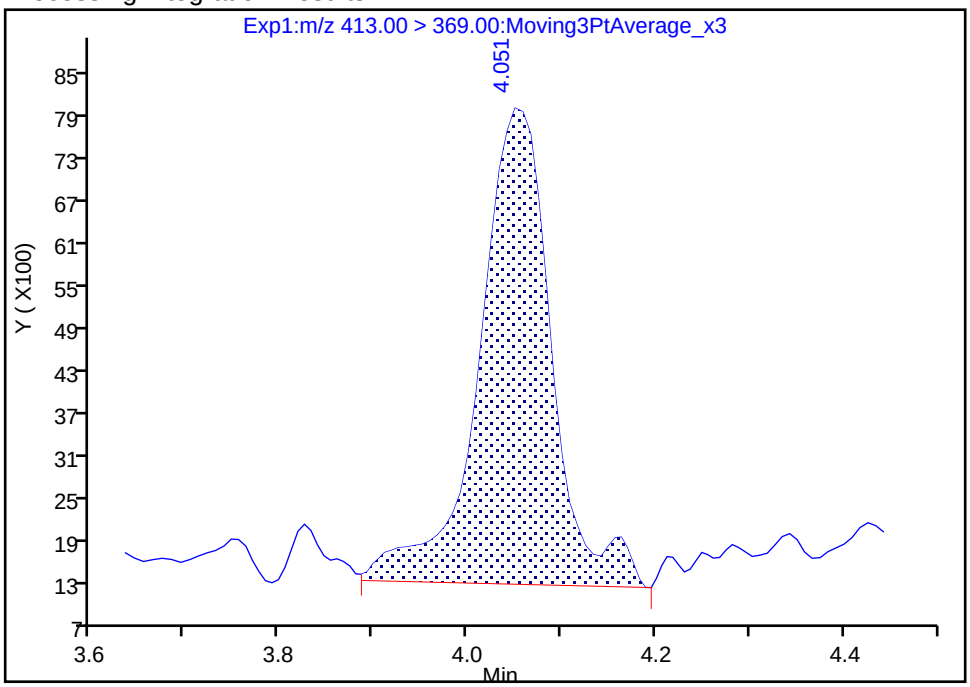
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

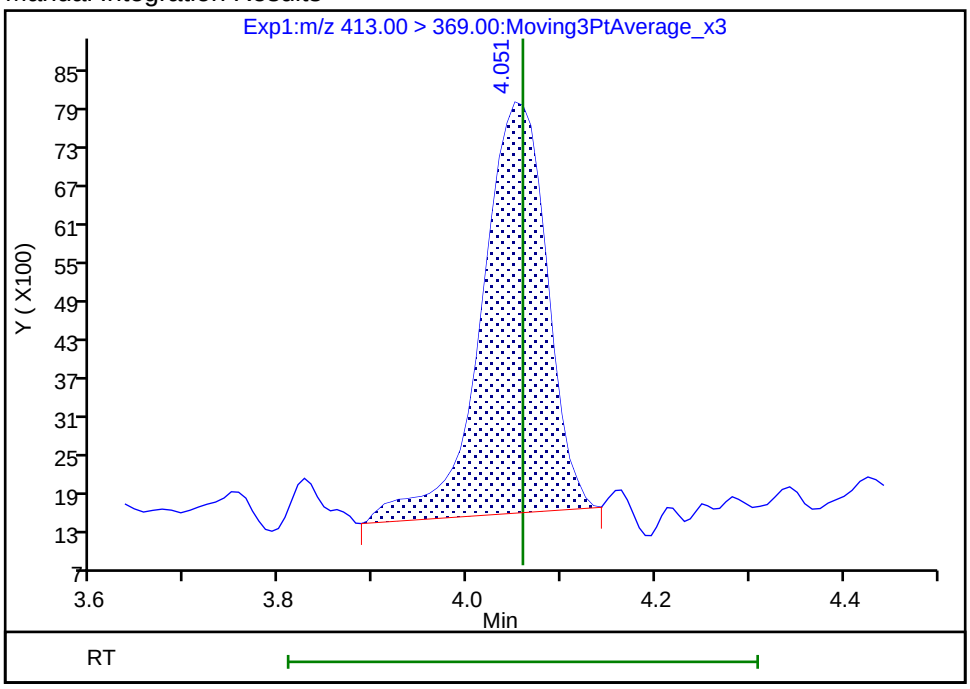
Processing Integration Results

RT: 4.05
Area: 36019
Amount: 0.010320
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 30859
Amount: 0.008842
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:34
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

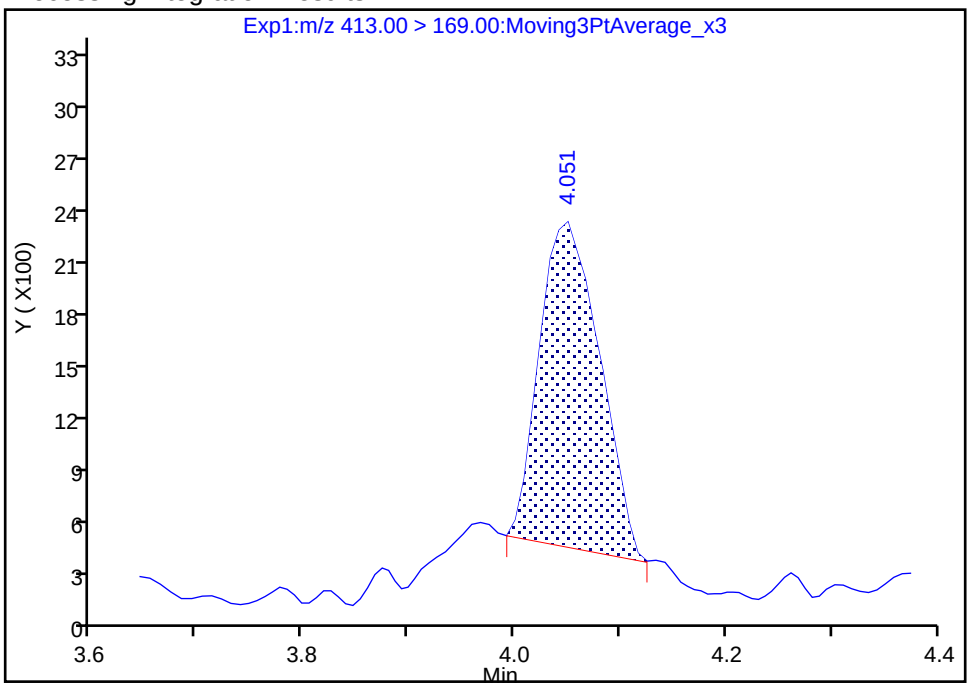
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

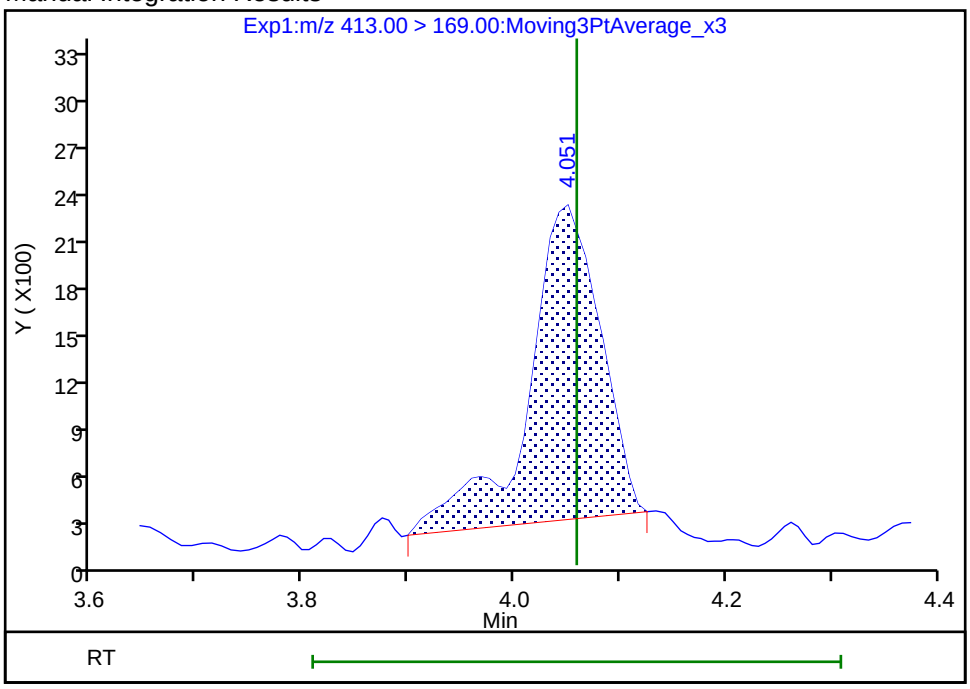
Processing Integration Results

RT: 4.05
Area: 7456
Amount: 0.010320
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 9555
Amount: 0.008842
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:37
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

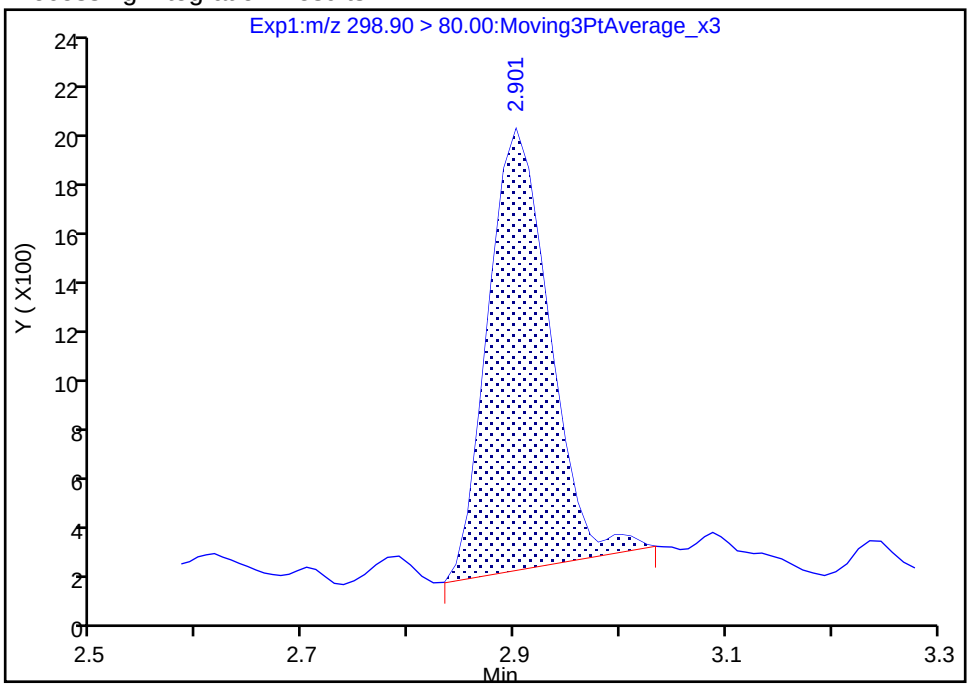
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

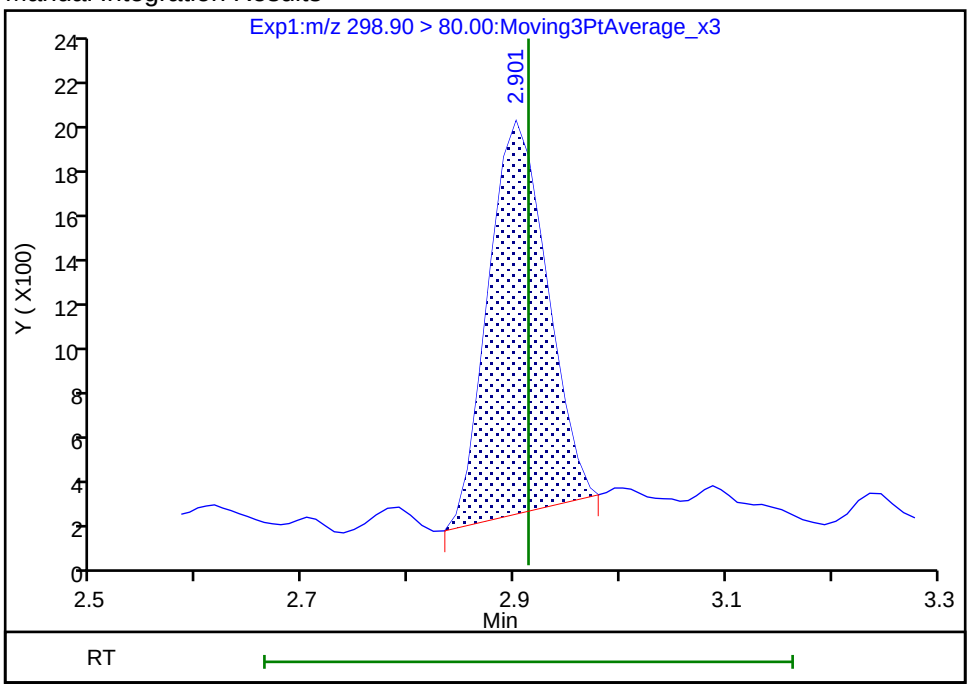
Processing Integration Results

RT: 2.90
Area: 7082
Amount: 0.002071
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 6683
Amount: 0.001954
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

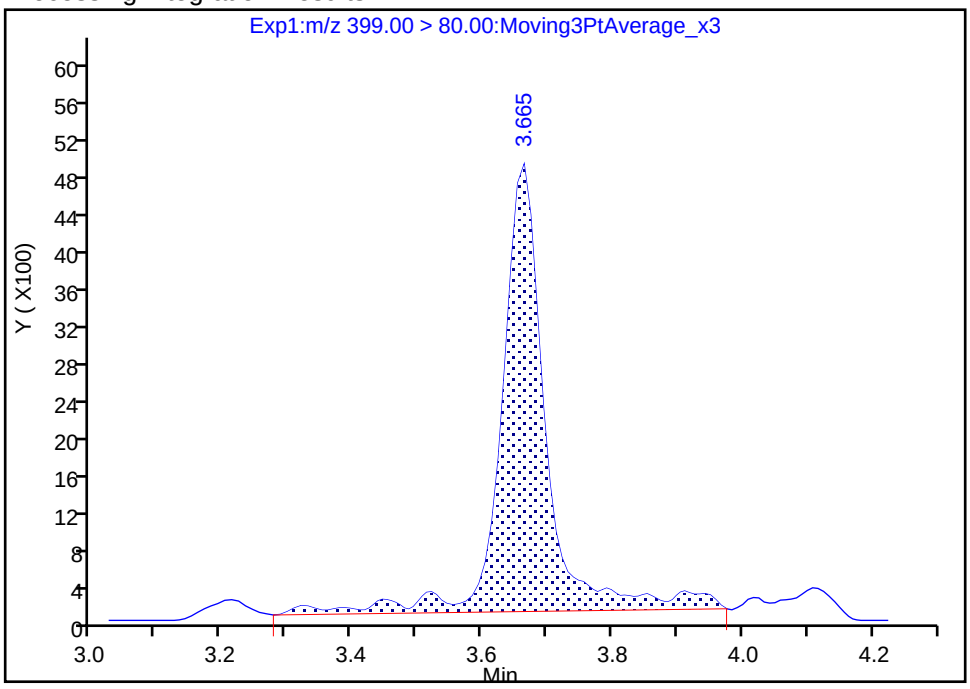
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

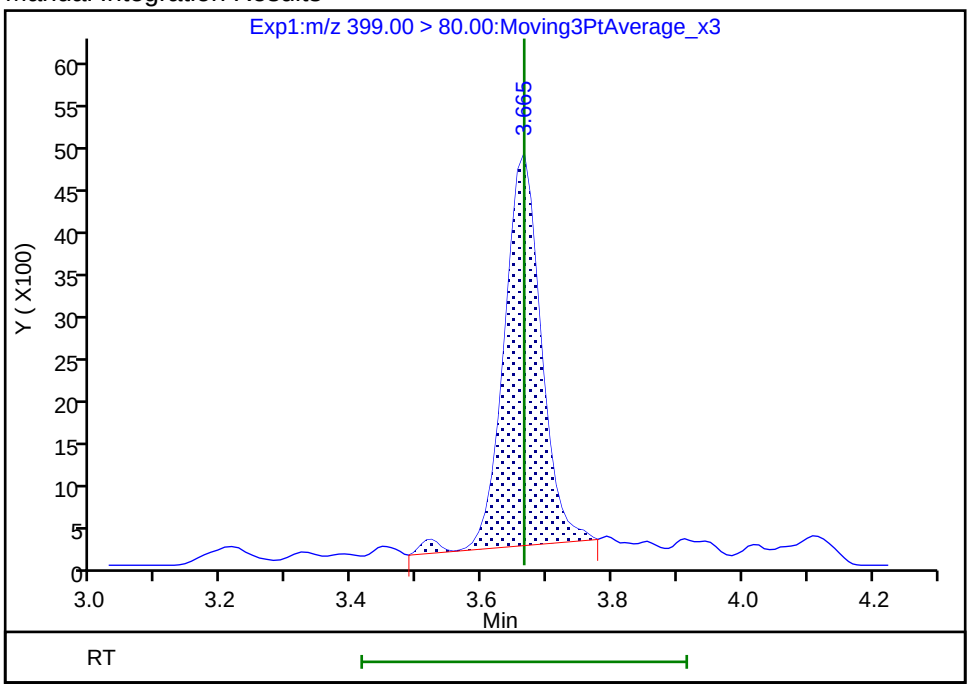
Processing Integration Results

RT: 3.66
Area: 23292
Amount: 0.009579
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 18532
Amount: 0.007621
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:23

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

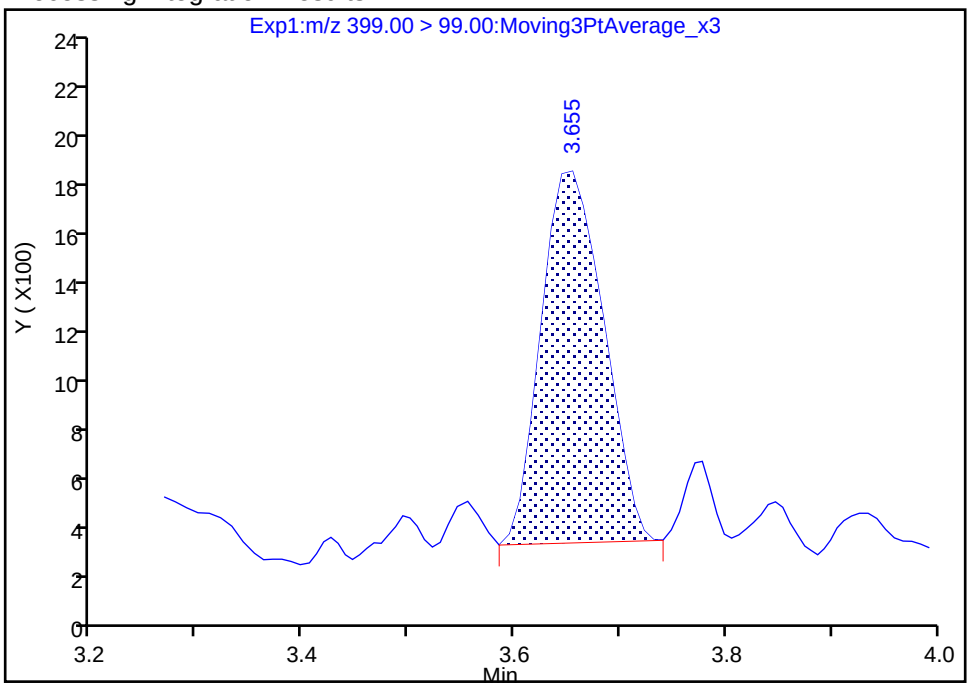
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

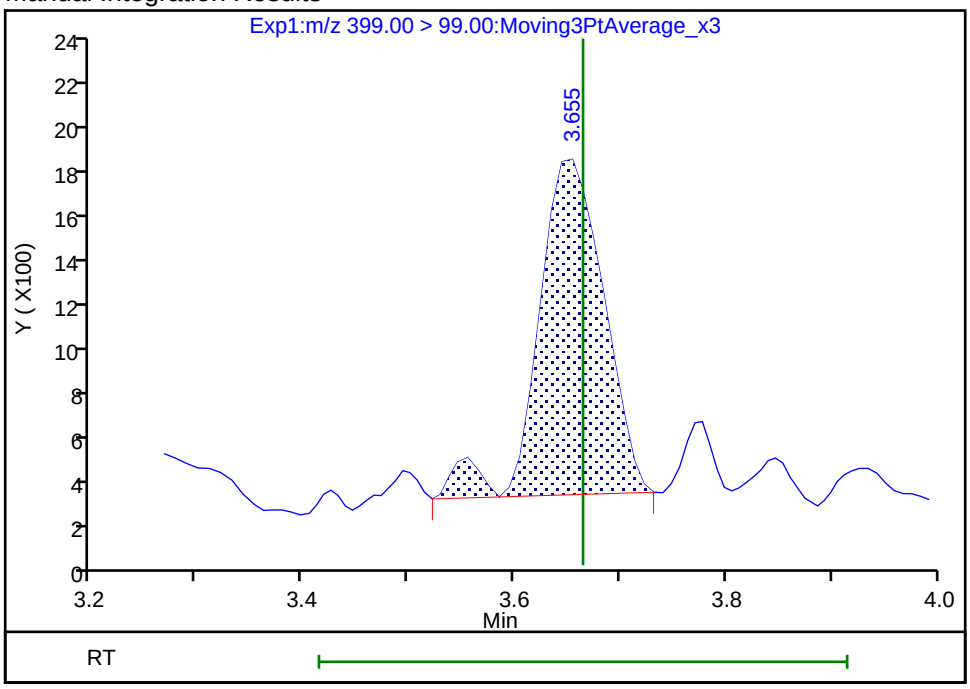
Processing Integration Results

RT: 3.65
Area: 6147
Amount: 0.009579
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 6471
Amount: 0.007621
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

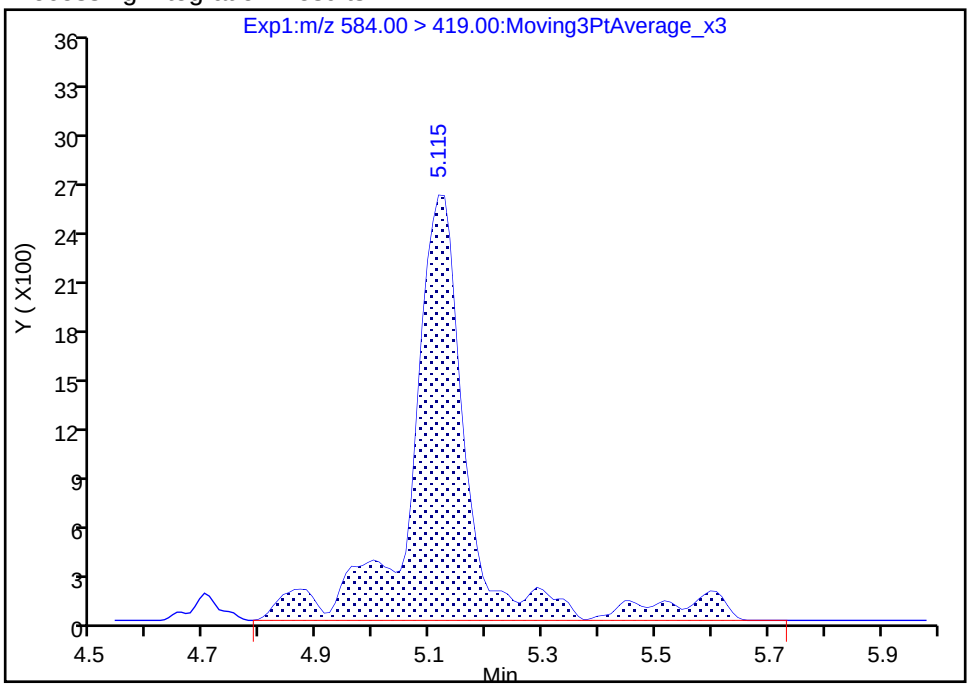
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_071.d				
Injection Date:	10-Sep-2020 20:00:47	Instrument ID:	A13		
Lims ID:	460-217659-D-8-A	Lab Sample ID:	320-217659-8		
Client ID:	FB				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	42	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

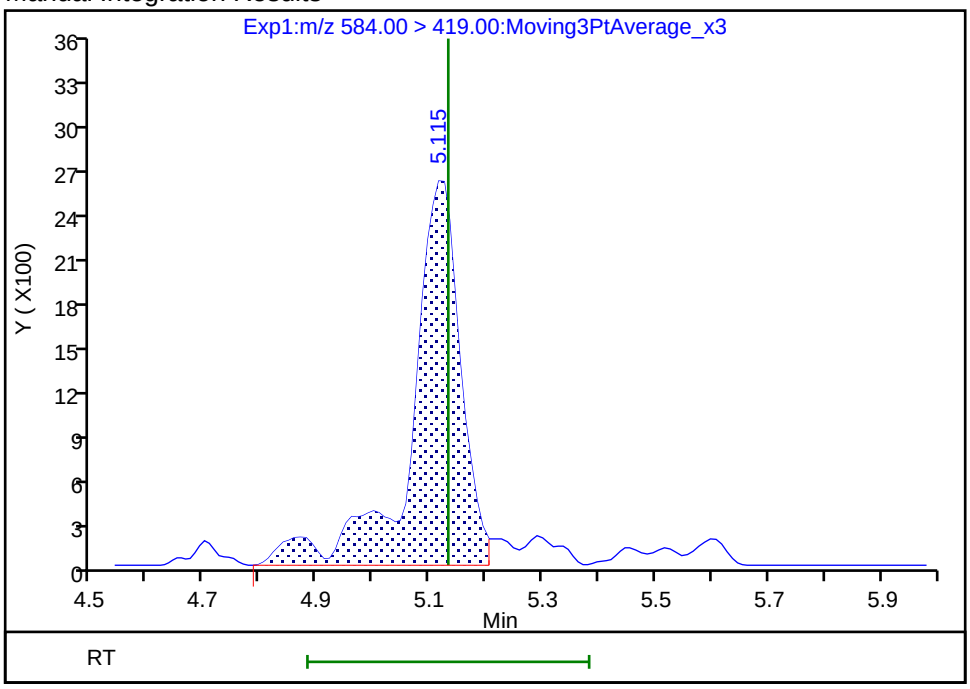
Processing Integration Results

RT: 5.12
Area: 18722
Amount: 0.012411
Amount Units: ng/ml



Manual Integration Results

RT: 5.12
Area: 15932
Amount: 0.010562
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 11:10:52

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-410486/2	2020.09.08_A13_PFC_ICALX_004.d
Level 2	IC 320-410486/3	2020.09.08_A13_PFC_ICALX_005.d
Level 3	IC 320-410486/4	2020.09.08_A13_PFC_ICALX_006.d
Level 4	IC 320-410486/5	2020.09.08_A13_PFC_ICALX_007.d
Level 5	IC 320-410486/6	2020.09.08_A13_PFC_ICALX_008.d
Level 6	IC 320-410486/7	2020.09.08_A13_PFC_ICALX_009.d
Level 7	IC 320-410486/8	2020.09.08_A13_PFC_ICALX_010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	0.6260 0.7728	0.6521 0.7091	0.7474	0.8576	0.8378	AveID		0.7433				11.8		35.0			
Perfluoropentanoic acid (PFPeA)	1.1909 0.9744	1.0279 0.8999	0.9546	1.0710	1.0760	AveID		1.0278				9.3		35.0			
Perfluorobutanesulfonic acid (PFBS)	0.8456 1.0233	0.8578 0.9524	0.9748	1.1048	1.0849	AveID		0.9776				10.4		35.0			
4:2 FTS	2.7125 3.3329	3.1106 3.1306	3.0010	3.5854	3.8311	AveID		3.2434				11.5		35.0			
Perfluorohexanoic acid (PFHxA)	0.9591 0.9332	0.9144 0.8775	0.8644	1.0061	0.9509	AveID		0.9294				5.3		35.0			
Perfluoropentanesulfonic acid (PFPeS)	0.6936 0.8159	0.7186 0.7914	0.7464	0.8956	0.8652	AveID		0.7896				9.5		50.0			
HFPO-DA (GenX)	0.2555 0.3059	0.2763 0.3032	0.2938	0.3206	0.3253	AveID		0.2972				8.3		35.0			
Perfluoroheptanoic acid (PFHpA)	0.9244 1.0273	1.0443 0.9692	1.0054	1.0353	1.0690	AveID		1.0107				4.9		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.2661 1.0695	1.0944 1.0383	1.0907	1.1073	1.1202	AveID		1.1123				6.6		35.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.7032 5.0100	4.9441 4.0605	5.2049	6.2103	5.8204	AveID		5.1362				13.8		50.0			
6:2 FTS	2.6387 2.3323	2.4564 2.2154	2.2635	2.4615	2.4795	AveID		2.4068				6.1		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.0091 1.1563	1.0372 1.1321	1.0634	1.3102	1.2636	AveID		1.1388				10.0		50.0			
Perfluorooctanoic acid (PFOA)	1.2146 0.9314	1.0561 0.8780	0.9743	1.0470	1.0597	AveID		1.0230				10.7		35.0			
Perfluorooctanesulfonic acid (PFOS)	1.0451 1.0379	0.9128 1.0191	1.0236	1.1353	1.0944	AveID		1.0383				6.7		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	0.9795 0.9747	0.8787 0.9004	0.9338	0.9599	1.0191	AveID		0.9494				5.1		35.0			
F-53B Major	2.1844 2.6154	2.3334 2.4294	2.3987	2.8125	2.7357	AveID		2.5014				9.1		50.0			
Perfluorooctanesulfonamide (FOSA)	0.8759 1.0006	0.8875 0.9377	0.9053	0.9916	0.9698	AveID		0.9383				5.4		35.0			
Perfluorononanesulfonic acid (PFNS)	0.6919 0.7921	0.6796 0.7940	0.7615	0.8537	0.8502	AveID		0.7747				8.9		50.0			
Perfluorodecanoic acid (PFDA)	0.8485 0.9389	0.8795 0.8254	0.8997	0.9407	0.9423	AveID		0.8964				5.3		35.0			
8:2 FTS	2.2948 2.4573	2.3623 2.4132	2.3954	2.7027	2.6777	AveID		2.4719				6.4		35.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.6856 0.8903	0.7511 0.8504	0.7555	0.8623	0.8433	AveID		0.8055				9.3		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.6355 0.6443	0.5862 0.6541	0.6400	0.7394	0.7123	AveID		0.6588				7.8		50.0			
Perfluoroundecanoic acid (PFUnA)	0.7130 0.7104	0.5775 0.7070	0.5682	0.6602	0.6943	AveID		0.6615				9.6		35.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.6495 0.8777	0.6761 0.8996	0.7086	0.7982	0.8089	AveID		0.7741				12.7		35.0			
NMeFOSE	1.0464 1.0928	0.9811 0.9945	0.9709	1.1631	1.2038	AveID		1.0647				8.6		35.0			
NMeFOSA	0.8424 0.9910	0.8942 0.9249	0.9560	1.1441	1.1295	AveID		0.9832				11.7		35.0			
F-53B Minor	3.9873 4.2789	3.8567 3.6060	4.2153	5.2161	5.0569	AveID		4.3167				14.0		50.0			
NEtFOSE	0.9201 1.0311	1.0877 0.9837	1.0121	1.1320	1.0809	AveID		1.0354				6.9		35.0			
NEtFOSA	0.9872 1.0161	1.0222 1.0193	1.0426	1.1714	1.1750	AveID		1.0620				7.3		35.0			
Perfluorododecanoic acid (PFDoA)	0.9325 0.9112	0.9018 0.8052	0.9669	0.9481	0.9198	AveID		0.9122				5.7		35.0			
10:2 FTS	1.3912 1.6960	1.5243 1.7524	1.5434	1.7342	1.7817	AveID		1.6319				9.0		50.0			
Perfluorododecanesulfonic acid (PFDoS)	0.2066 0.2638	0.2469 0.2674	0.2543	0.2883	0.2732	AveID		0.2572				10.1		50.0			
Perfluorotridecanoic acid (PFTriA)	0.8372 0.9274	0.9017 0.8121	0.9432	1.1225	1.0169	AveID		0.9373				11.3		50.0			
Perfluorotetradecanoic acid (PFTeA)	1.0570 0.9408	1.0145 0.8192	0.9791	1.0311	1.0484	AveID		0.9843				8.5		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoro-n-hexadecanoic acid (PFHxDA)	+++++ 0.9074	1.4206 +++++	1.0304	1.0505	0.9488	L2ID	0.0235	0.9514							0.9970		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.6470 0.7580	0.6560 0.7612	0.6955	0.8276	0.7687	AveID		0.7306				9.1		50.0			
13C4 PFBA	0.8405 0.8473	0.8394 0.8848	0.8380	0.8350	0.8643	Ave		0.8499				2.1		50.0			
13C5 PFPeA	0.6680 0.6580	0.6591 0.6875	0.6662	0.6392	0.6593	Ave		0.6625				2.2		50.0			
13C3 PFBS	0.8243 0.8342	0.7965 0.8587	0.8096	0.8293	0.8693	Ave		0.8317				3.1		50.0			
M2-4:2 FTS	0.2271 0.1899	0.2044 0.1927	0.2109	0.2077	0.1935	Ave		0.2037				6.4		50.0			
13C2 PFHxA	0.8140 0.8003	0.8231 0.8266	0.8245	0.8031	0.8363	Ave		0.8183				1.6		50.0			
13C3 HFPO-DA	0.5798 0.5975	0.5722 0.6115	0.5729	0.5774	0.5949	Ave		0.5866				2.5		50.0			
13C4 PFHpA	0.8076 0.8067	0.8048 0.7969	0.7849	0.8097	0.8303	Ave		0.8058				1.7		50.0			
18O2 PFHxS	0.5584 0.5398	0.5342 0.5494	0.5386	0.5405	0.5535	Ave		0.5449				1.6		50.0			
M2-6:2 FTS	0.2443 0.2212	0.2456 0.2090	0.2439	0.2371	0.2430	Ave		0.2349				6.0		50.0			
13C4 PFOA	0.9911 0.9793	0.9860 0.9909	0.9836	0.9659	0.9976	Ave		0.9849				1.0		50.0			
13C4 PFOS	0.3920 0.3873	0.3860 0.3989	0.3858	0.3752	0.3964	Ave		0.3888				2.0		50.0			
13C5 PFNA	0.8966 0.8714	0.9043 0.8974	0.9046	0.9454	0.9497	Ave		0.9099				3.1		50.0			
13C8 FOSA	0.5669 0.5468	0.5394 0.5596	0.5507	0.5632	0.5827	Ave		0.5585				2.6		50.0			
13C2 PFDA	1.1090 1.0535	1.0994 1.0906	1.0999	1.1187	1.1446	Ave		1.1022				2.5		50.0			
M2-8:2 FTS	0.3374 0.2901	0.3251 0.2598	0.3198	0.3228	0.3200	Ave		0.3107				8.6		50.0			
d3-NMeFOSAA	0.5634 0.5532	0.5660 0.5887	0.5776	0.5489	0.5800	Ave		0.5682				2.6		50.0			
13C2 PFUnA	1.0798 1.0082	1.0964 1.0479	1.0855	1.1102	1.1185	Ave		1.0781				3.6		50.0			
d5-NEtFOSAA	0.5803 0.5131	0.5738 0.4781	0.5931	0.5617	0.5506	Ave		0.5501				7.4		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
d7-N-MeFOSE-M	0.1403 0.1378	0.1325 0.1485	0.1338	0.1439	0.1416	Ave		0.1398				4.0		50.0			
d-N-MeFOSA-M	0.2508 0.2808	0.2454 0.2997	0.2423	0.2562	0.2644	Ave		0.2628				7.9		50.0			
d9-N-EtFOSE-M	0.1636 0.1642	0.1591 0.1668	0.1639	0.1608	0.1698	Ave		0.1640				2.2		50.0			
d-N-EtFOSA-M	0.2410 0.2742	0.2377 0.2736	0.2299	0.2443	0.2560	Ave		0.2510				7.0		50.0			
13C2 PFDoA	1.1585 1.1483	1.1513 1.1555	1.1432	1.1566	1.2101	Ave		1.1605				1.9		50.0			
13C2 PFTeDA	1.0839 1.1433	1.0930 1.2303	1.1401	1.1630	1.1692	Ave		1.1461				4.3		50.0			
13C2 PFHxDA	1.2238 1.1567	1.2101 1.1305	1.1872	1.1658	1.2746	Ave		1.1927				4.0		50.0			
13C8 PFOA	0.8882 0.9230	0.8667 0.9376	0.8769	0.8695	0.8737	Ave		0.8908				3.2		50.0			
13C8 PFOS	0.2116 0.2117	0.2024 0.2133	0.2098	0.1970	0.2073	Ave		0.2076				2.8		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-410486/2	2020.09.08_A13_PFC_ICALX_004.d
Level 2	IC 320-410486/3	2020.09.08_A13_PFC_ICALX_005.d
Level 3	IC 320-410486/4	2020.09.08_A13_PFC_ICALX_006.d
Level 4	IC 320-410486/5	2020.09.08_A13_PFC_ICALX_007.d
Level 5	IC 320-410486/6	2020.09.08_A13_PFC_ICALX_008.d
Level 6	IC 320-410486/7	2020.09.08_A13_PFC_ICALX_009.d
Level 7	IC 320-410486/8	2020.09.08_A13_PFC_ICALX_010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	61128 14438781	123553 26655152	709495	3061240	7550897	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	92418 14138743	152923 26282266	720372	2926237	7398690	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	71582 16640464	136339 30714271	790299	3461956	8694694	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	66853 13032064	134070 23932034	669502	2972806	7222435	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	90694 16468853	169905 30815520	807254	3453700	8293337	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	62309 14078526	121195 27082975	642082	2978054	7357818	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	17209 4031168	35679 7876756	190661	791192	2018411	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	86732 18273603	189696 32814594	893875	3583423	9256124	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	74745 11584719	120086 22053412	605478	2328312	5884181	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveID	201790 40309055	405770 64819077	2142670	9381994	22665425	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	70998 10786932	129089 18651101	592730	2365036	5956664	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	43755 9402297	86028 18263636	442411	2000325	4972809	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanoic acid (PFOA)		AveID	139847 20113180	235055 36963255	1085567	4327071	11036141	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	44172 8226757	73805 16026278	415124	1689700	4198333	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	102031 18728268	179366 34328615	956806	3887335	10113220	0.0250 5.00	0.0500 10.0	0.250	1.00	2.51

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
F-53B Major		AveID	92727 20819244	189474 38369939	976991	4203800	10540021	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctanesulfonamide (FOSA)		AveID	57692 12065086	108069 22290641	564719	2387088	5893720	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	30255 6494679	56843 12917552	319494	1314349	3374107	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveID	109318 21812231	218271 38244371	1120870	4498411	11249076	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
8:2 FTS		AveID	86172 15056794	166092 25512691	831326	3572258	8559688	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	44870 10861594	95954 21267414	494318	2023389	5100889	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	27904 5305131	49232 10686131	269601	1143074	2838619	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveID	89445 15793712	142918 31474743	698590	3136200	8106772	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	43786 9931516	87576 18272482	476100	1916577	4644784	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NMeFOSE		AveID	17062 3319950	29334 6274125	147125	715511	1778047	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NMeFOSA		AveID	24548 6137462	49525 11776983	262426	1252850	3114938	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
F-53B Minor		AveID	171076 34426796	316523 57564339	1735311	7880150	19692127	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
NEtFOSE		AveID	17486 3733346	39060 6971778	187883	777947	1913658	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
NEtFOSA		AveID	27644 6144124	54851 11849335	271456	1223169	3136862	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorododecanoic acid (PFDoA)		AveID	125510 23072242	234353 39528010	1252132	4715418	11677975	0.0250 5.00	0.0500 10.0	0.250	1.01	2.52
10:2 FTS		AveID	52569 10457328	107845 18642571	539015	2306558	5731243	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveID	9107 2180724	20826 4386576	107576	447598	1093416	0.0242 4.84	0.0484 9.68	0.242	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveID	112676 23483480	234324 39862771	1221450	5549854	12833545	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	133099 23717630	250286 42819972	1264431	5131503	12795824	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	+++++ 23144595	388029 +++++	1385662	5235054	12612258	+++++ 5.00	0.0500 +++++	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	91989 19334584	179176 36559244	935248	4124214	10217750	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4 PFBA	13PF OA	Ave	9764452 9342061	9473390 9397601	9492767	8923921	9013235	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PF OA	Ave	7760357 7255234	7438352 7301470	7546021	6830859	6876235	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 PFBS	13PF OA	Ave	8906242 8553899	8360594 8481982	8529189	8241841	8431444	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2 FTS	13PF OA	Ave	2464632 1955076	2155074 1911168	2230896	2072842	1885203	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PF OA	Ave	9456357 8823741	9290117 8779452	9339168	8582211	8721278	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PF OA	Ave	6736079 6588356	6457615 6494935	6489896	6170375	6204174	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFHpA	13PF OA	Ave	9382537 8894028	9082861 8464192	8890952	8652756	8658843	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	6137023 5630354	5703634 5520203	5771004	5464678	5460626	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2 FTS	13PF OA	Ave	2696323 2317416	2633110 2109180	2624141	2407058	2407481	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	11514032 10797424	11128157 10524627	11141953	10322203	10403846	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	4354260 4082668	4164582 4050192	4177857	3832936	3951981	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	10416635 9607630	10206104 9530979	10246517	10103666	9904240	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	6586517 6028710	6088259 5943159	6237740	6018555	6077423	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDA	13PF OA	Ave	12883489 11615360	12408694 11582996	12458933	11955497	11937334	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2 FTS	13PF OA	Ave	3755172 3063702	3515524 2642999	3470562	3304386	3196689	2.40 2.40	2.40 2.40	2.40	2.40	2.40
d3-NMeFOSAA	13PF OA	Ave	6544790 6099651	6387921 6252520	6542549	5866210	6048740	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	12544970 11116061	12374202 11130004	12295425	11864798	11664379	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	6741542 5657723	6476169 5077808	6718667	6002493	5742065	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d7-N-MeFOSE-M	13PF OA	Ave	8152330 7595314	7474639 7886277	7576494	7689569	7385364	12.5 12.5	12.5 12.5	12.5	12.5	12.5
d-N-MeFOSA-M	13PF OA	Ave	2913932 3096486	2769186 3183250	2745104	2737546	2757873	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d9-N-EtFOSE-M	13PF OA	Ave	9502545 9051681	8977322 8859198	9281452	8590768	8851823	12.5 12.5	12.5 12.5	12.5	12.5	12.5

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1 Analy Batch No.: 410486

SDG No.:

Instrument ID: A13 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 18:01 Calibration End Date: 09/08/2020 18:58 Calibration ID: 51771

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
d-N-EtFOSA-M	13PF OA	Ave	2800193 3023483	2682893 2906316	2603727	2610483	2669751	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	13459227 12660330	12993670 12272069	12949938	12360280	12620498	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFTeDA	13PF OA	Ave	12592012 12605192	12335685 13067077	12914651	12428995	12193198	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFHxDA	13PF OA	Ave	14218004 12753004	13657597 12006459	13447822	12458626	13292918	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 PFOA	13PF OA	Ave	10101494 9963084	9576396 9748895	9724361	9097652	8920434	2.45 2.45	2.45 2.45	2.45	2.45	2.45
13C8 PFOS	13PF OA	Ave	2349789 2231106	2184217 2165574	2271472	2012625	2066897	2.39 2.39	2.39 2.39	2.39	2.39	2.39

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Lims ID: IC STD 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Sep-2020 18:01:46 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 1 (21)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:21:38 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 08:56:31
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.482	2.477	0.005	0.610	9764452	2.47		98.9	29623	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.482	2.480	0.002	1.000	61128	0.0211		84.2	21.7	
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.873	0.005	0.708	7760357	2.52		101	30897	
5 Perfluoropentanoic acid										M
262.90 > 219.00	2.878	2.875	0.003	1.000	92418	0.0290		116	15.7	M
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.716	8906242	2.30		99.1	18410	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	71582	0.0191	Target=2.18	86.5	76.8	
298.90 > 99.00	2.913	2.913	0.0	1.000	32776		2.18(1.09-3.26)	86.5	19.5	
7 4:2 FTS										
327.00 > 307.00	3.226	3.221	0.005	1.000	66853	0.0195		83.6	252	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.226	3.222	0.004	0.793	2464632	2.60		111	2020	
D 9 13C2 PFHxA										
315.00 > 270.00	3.268	3.264	0.004	0.804	9456357	2.49		99.5	21845	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.265	0.003	1.000	90694	0.0258	Target=11.68	103	17.7	
313.00 > 119.00	3.258	3.265	-0.007	0.997	8690		10.44(5.84-17.52)	103	3.5	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	62309	0.0206	Target=2.56	87.9	82.8	
349.00 > 99.00	3.279	3.279	0.0	1.126	23076		2.70(1.28-3.84)	87.9	29.5	
12 HPFO-DA										
285.00 > 169.00	3.388	3.386	0.002	1.000	17209	0.0215		86.0	123	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.386	0.002	0.833	6736079	2.47		98.8	7132	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.675	3.670	0.005	1.003	86732	0.0229	Target=3.85	91.5	13.4	M
363.00 > 169.00	3.675	3.670	0.005	1.003	23999		3.61(1.92-5.77)	91.5	15.8	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.668	-0.003	0.901	9382537	2.51		100	12673	
18 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.675	3.672	0.003	1.000	74745	0.0259	Target=3.25	114	91.9	
399.00 > 99.00	3.675	3.672	0.003	1.000	23007		3.25(1.62-4.87)	114	17.6	
D 17 18O2 PFHxS										
403.00 > 84.00	3.675	3.672	0.003	0.904	6137023	2.42		102	47831	
19 DONA										
377.00 > 251.00	3.723	3.719	0.004	0.840	201790	0.0216	Target=2.76	91.6	344	
377.00 > 85.00	3.723	3.719	0.004	0.840	72093		2.80(1.38-4.14)	91.6	196	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.051	4.043	0.008	0.996	2696323	2.47		104	4400	
21 6:2 FTS										
427.00 > 407.00	4.051	4.043	0.008	1.000	70998	0.0260		110	158	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.059	4.056	0.003	0.915	43755	0.0211	Target=4.29	88.6	85.5	
449.00 > 99.00	4.059	4.056	0.003	0.915	10027		4.36(2.15-6.44)	88.6	19.1	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.058	0.001	0.998	10101494	2.44		99.7	11748	
* 25 13C2 PFOA										
415.00 > 370.00	4.067	4.065	0.002		11617577	2.50			6120	
D 24 13C4 PFOA										
417.00 > 372.00	4.067	4.065	0.002	1.000	11514032	2.52		101	12203	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.066	0.001	1.000	139847	0.0297	Target=2.95	119	30.4	
413.00 > 169.00	4.067	4.066	0.001	1.000	45935		3.04(1.47-4.42)	119	73.5	
$ 27 13C8 PFOS										
507.00 > 99.00	4.434	4.426	0.008	1.090	2349789	2.44		102	1955	
D 29 13C4 PFOS										
503.00 > 80.00	4.434	4.429	0.005	1.090	4354260	2.41		101	7550	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.434	4.432	0.002	1.000	44172	0.0234	Target=4.28	101	73.7	M
499.00 > 99.00	4.434	4.432	0.002	1.000	10212		4.33(2.14-6.41)	101	15.5	M
D 31 13C5 PFNA										
468.00 > 423.00	4.451	4.448	0.003	1.094	10416635	2.46		98.5	28988	
30 Perfluorononanoic acid										
463.00 > 419.00	4.451	4.449	0.002	1.000	102031	0.0258	Target=8.00	103	30.2	
463.00 > 169.00	4.451	4.449	0.002	1.000	8929		11.43(4.00-12.01)	103	23.5	
32 9ClFOS										
531.00 > 351.00	4.636	4.632	0.004	1.046	92727	0.0203		87.3	114	
D 34 13C8 FOSA										
506.00 > 78.00	4.743	4.738	0.005	1.166	6586517	2.54		102	19622	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.743	4.739	0.004	1.000	57692	0.0233		93.3	251	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.786	4.781	0.005	1.080	30255	0.0214	Target=2.15	89.3	141	
549.00 > 99.00	4.786	4.781	0.005	1.080	12739		2.37(1.08-3.23)	89.3	21.9	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.813	4.808	0.005	1.000	109318	0.0237	Target=10.44	94.7	52.9	
513.00 > 169.00	4.804	4.808	-0.004	0.998	12482		8.76(5.22-15.65)	94.7	43.4	
D 37 13C2 PFDA										
515.00 > 470.00	4.813	4.808	0.005	1.183	12883489	2.52		101	12548	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.810	0.003	1.183	3755172	2.60		109	6307	
39 8:2 FTS										
527.00 > 507.00	4.813	4.810	0.003	1.000	86172	0.0222		92.8	618	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.971	4.972	-0.001	1.222	6544790	2.48		99.1	8382	
41 NMeFOSAA										M
570.00 > 419.00	4.981	4.978	0.003	1.002	44870	0.0213		85.1	17.9	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.107	5.103	0.003	1.152	27904	0.0232	Target=2.36	96.5	98.4	
599.00 > 99.00	5.107	5.103	0.003	1.152	10985		2.54(1.18-3.54)	96.5	42.0	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.135	5.132	0.003	1.000	89445	0.0269	Target=8.67	108	67.7	
563.00 > 169.00	5.135	5.132	0.003	1.000	8362		10.70(4.34-13.01)	108	22.7	
D 44 13C2 PFUnA										
565.00 > 520.00	5.135	5.132	0.003	1.263	12544970	2.50		100	9800	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.145	5.139	0.006	1.265	6741542	2.64		105	2516	
48 NEtFOSA										M
584.00 > 419.00	5.154	5.148	0.006	1.002	43786	0.0210		83.9	103	M
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.182	0.002	1.275	8152330	12.6		100	2975	
47 N-MeFOSE-M										
616.00 > 59.00	5.194	5.195	-0.001	1.002	17062	0.0246		98.3	32.5	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	0.0	1.280	2913932	2.39		95.4	43.2	
50 NMeFOSA										
512.00 > 169.00	5.216	5.213	0.003	1.002	24548	0.0214		85.7	54.8	
51 11ClFOS										
631.00 > 451.00	5.270	5.271	-0.001	1.189	171076	0.0218		92.4	667	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.352	0.001	1.316	9502545	12.5		99.7	3993	
53 N-EtFOSE-M										
630.00 > 59.00	5.362	5.366	-0.004	1.002	17486	0.0222		88.9	33.9	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.379	0.0	1.323	2800193	2.40		96.0	252	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.386	0.001	1.002	27644	0.0232		93.0	82.6	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.429	5.428	0.001	1.000	125510	0.0256	Target=9.05	102	83.3	
613.00 > 169.00	5.429	5.428	0.001	1.000	12625		9.94(4.52-13.57)	102	43.0	
D 56 13C2 PFDoA										
615.00 > 570.00	5.429	5.428	0.001	1.335	13459227	2.50		99.8	4451	
58 10:2 FTS										
627.00 > 607.00	5.445	5.445	0.0	1.131	52569	0.0205		85.3	334	
59 PFDoS										
699.00 > 80.00	5.662	5.665	-0.003	1.277	9107	0.0194	Target=0.57	80.3	115	
699.00 > 99.00	5.671	5.665	0.006	1.279	17221		0.53(0.29-0.86)	80.3	82.2	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.709	5.704	0.005	1.052	112676	0.0223	Target=7.06	89.3	139	
663.00 > 169.00	5.702	5.704	-0.002	1.050	15814		7.13(3.53-10.59)	89.3	73.0	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.958	5.954	0.004	1.000	133099	0.0268	Target=11.23	107	118	
713.00 > 219.00	5.950	5.954	-0.004	0.999	10143		13.12(5.62-16.85)	107	125	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.958	5.953	0.005	1.465	12592012	2.36		94.6	13754	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.446	6.437	0.009	1.585	14218004	2.57		103	5532	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.446	6.439	0.007	1.000	272360	0.0257	Target=9.45	103	67.1	
813.00 > 169.00	6.446	6.439	0.007	1.000	30300		8.99(4.72-14.17)	103	135	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.920	6.915	0.005	1.074	91989	0.0221	Target=11.13	88.6	57.8	
913.00 > 169.00	6.920	6.915	0.005	1.074	7694		11.96(5.56-16.69)	88.6	65.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00021 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:21:42 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d

Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13

Lims ID: IC STD 1

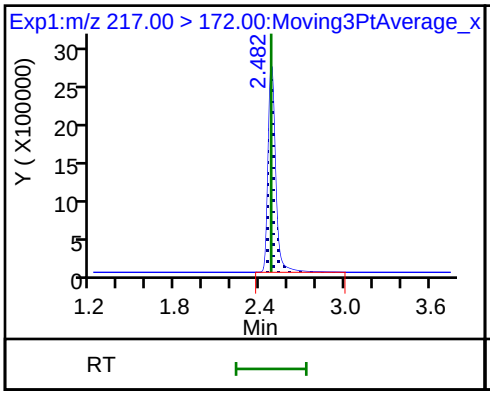
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2

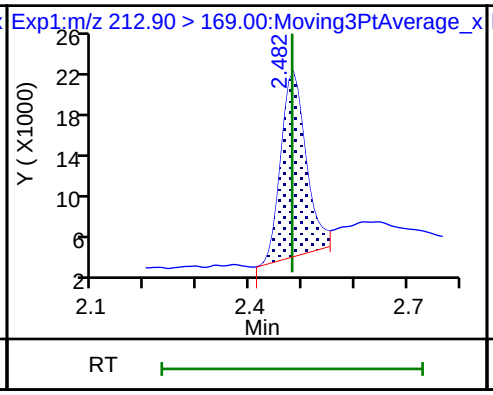
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

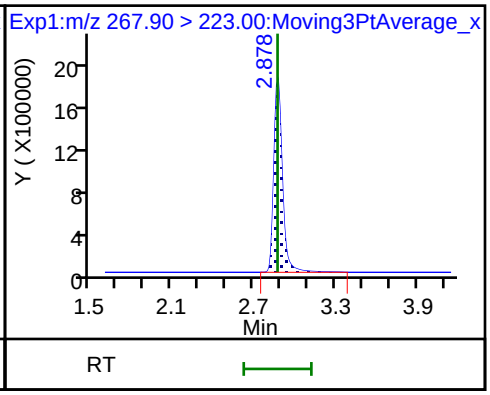
D 1 13C4 PFBA



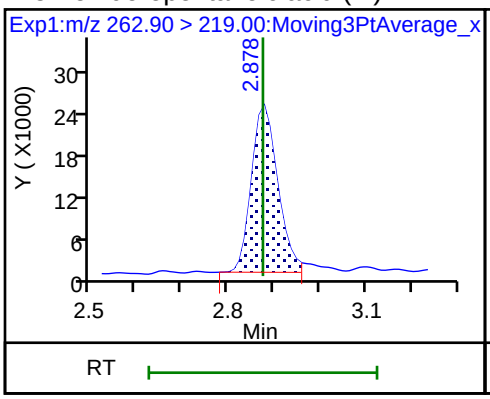
2 Perfluorobutanoic acid



D 4 13C5 PFPeA



5 Perfluoropentanoic acid (M)



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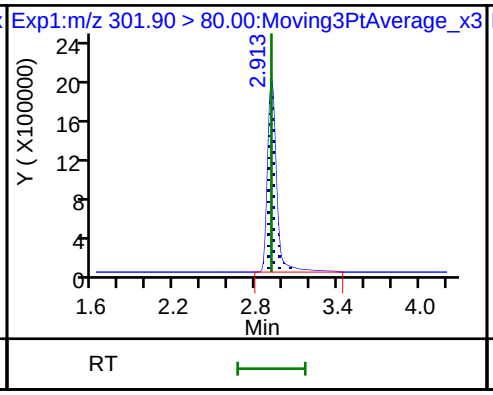
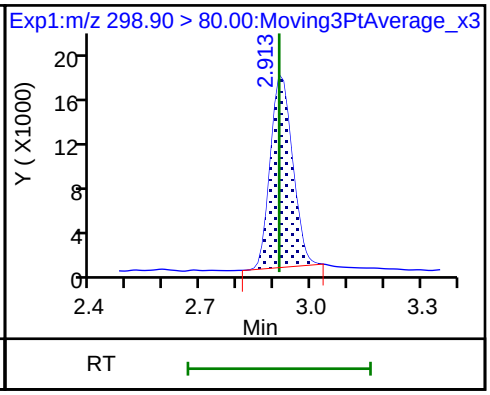
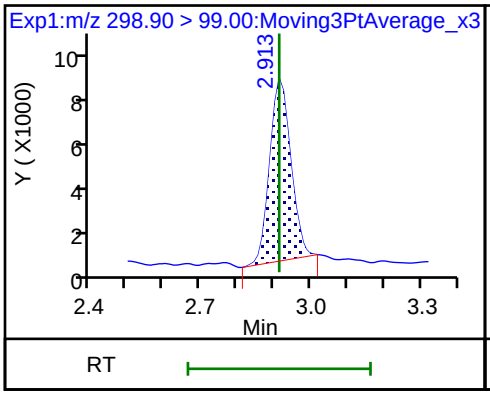


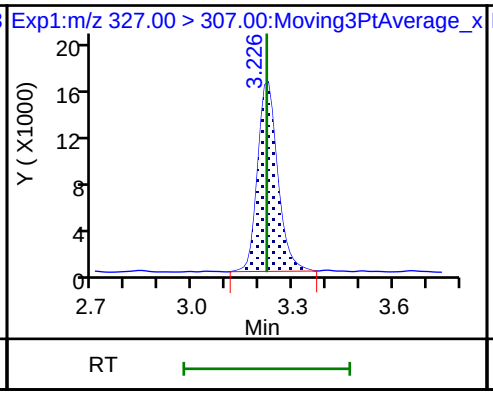
6 Perfluorobutanesulfonic acid



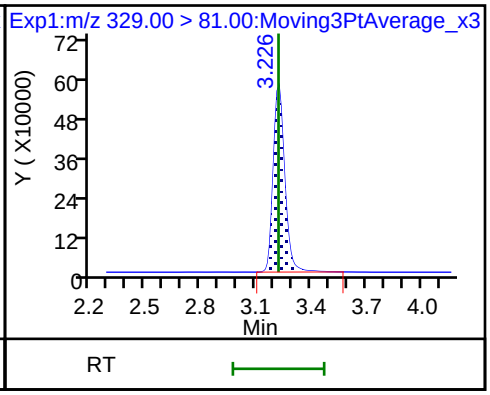
6 Perfluorobutanesulfonic acid



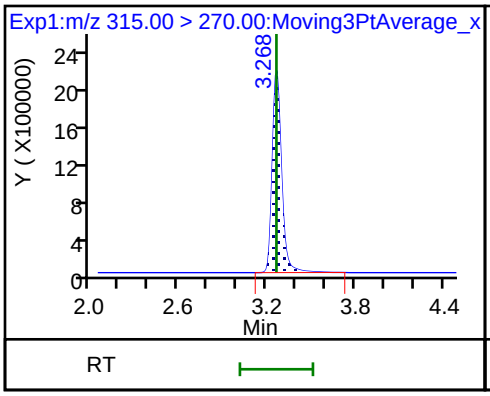
7 4:2 FTS



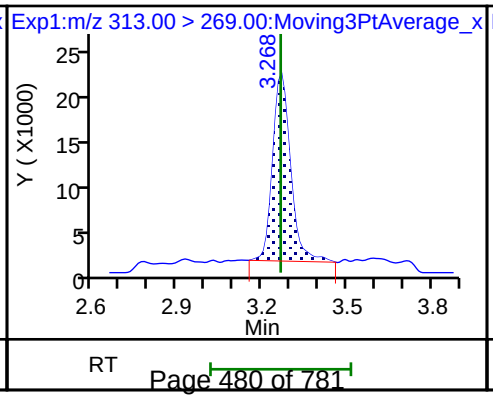
D 8 M2-4:2 FTS



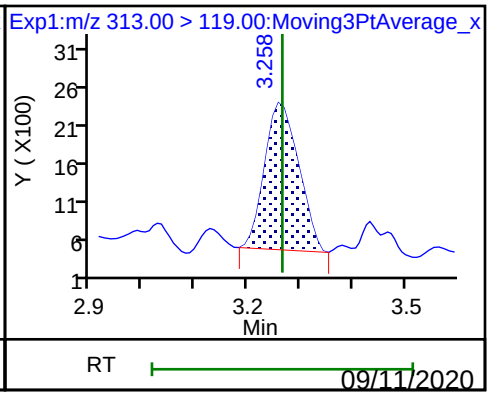
D 9 13C2 PFHxA



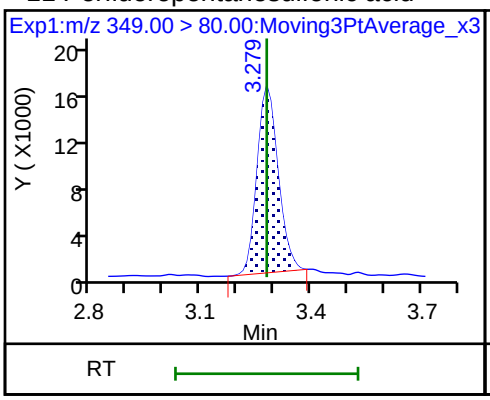
10 Perfluorohexanoic acid



10 Perfluorohexanoic acid



11 Perfluoropentanesulfonic acid



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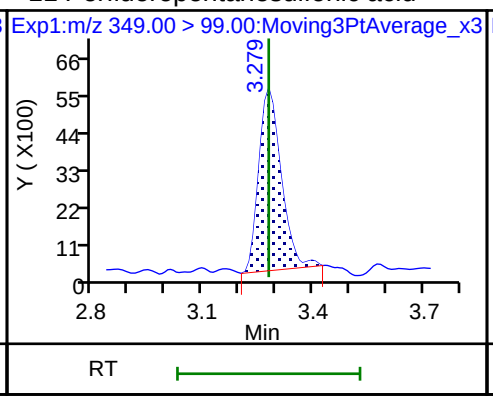
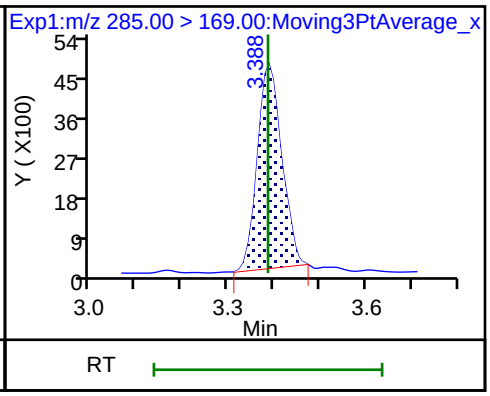
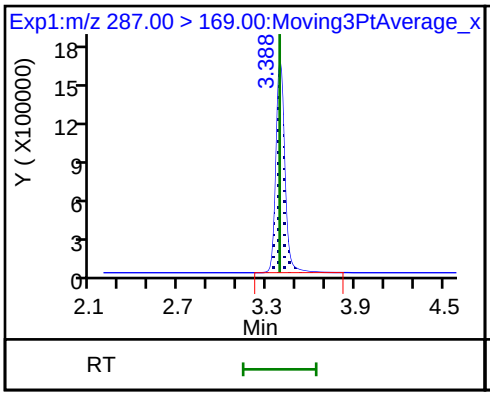


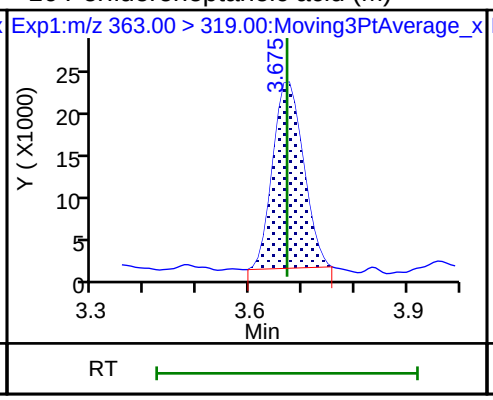
12 HPFO-DA



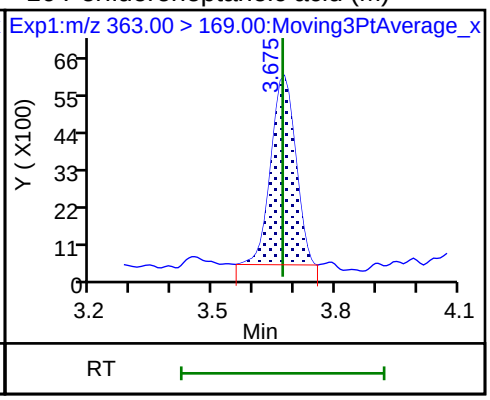
D 13 13C3 HFPO-DA



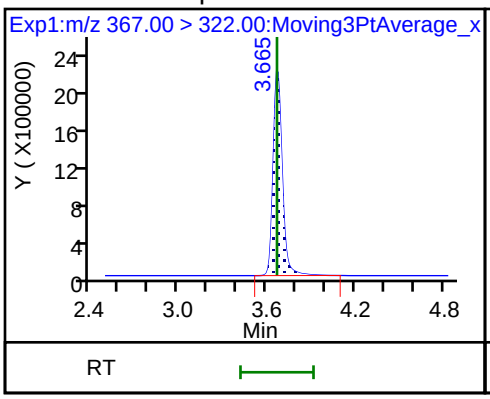
16 Perfluoroheptanoic acid (M)



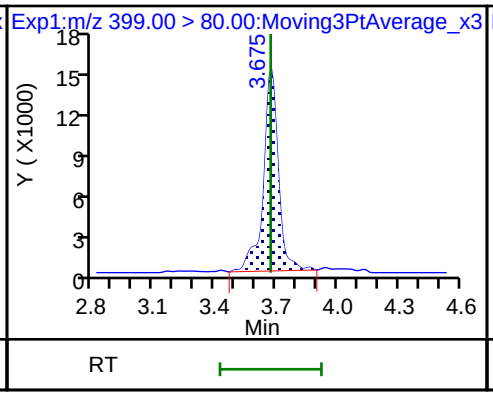
16 Perfluoroheptanoic acid (M)



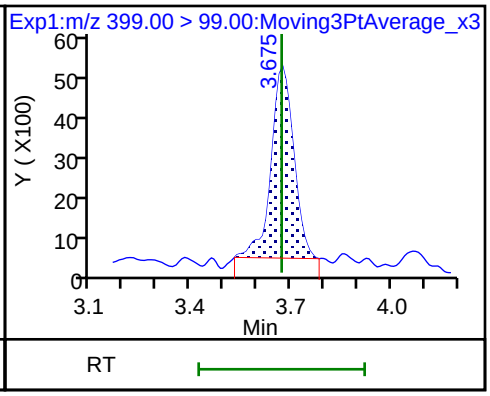
D 15 13C4 PFHpA



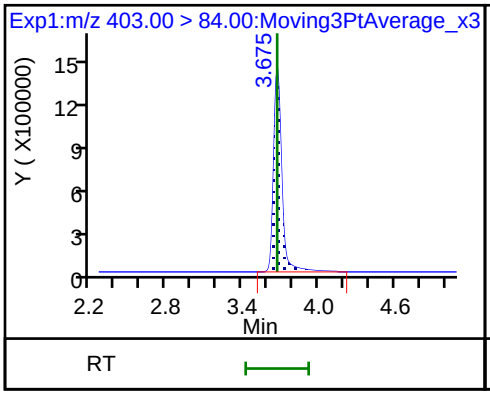
18 Perfluorohexanesulfonic acid



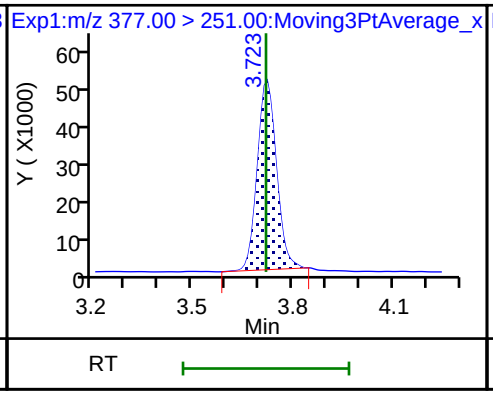
18 Perfluorohexanesulfonic acid



D 17 18O2 PFHxS



19 DONA



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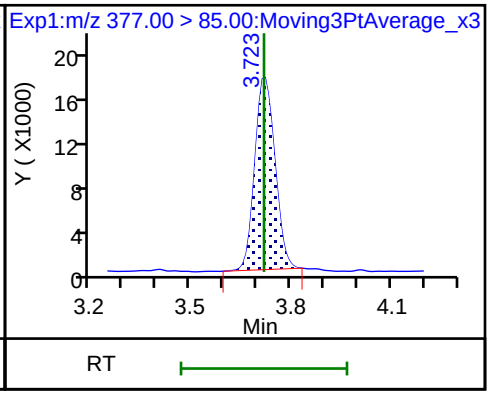
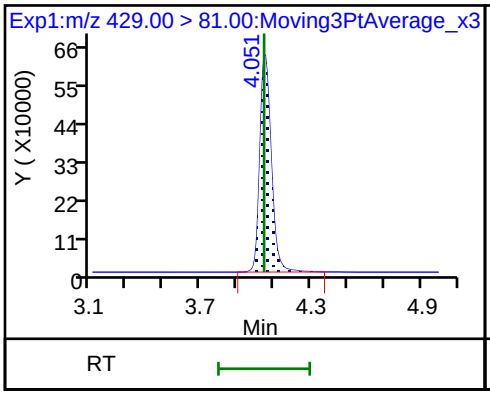
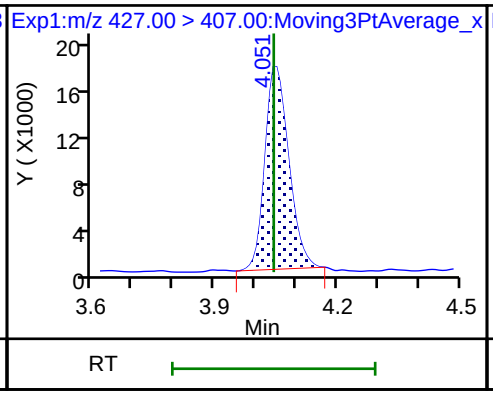


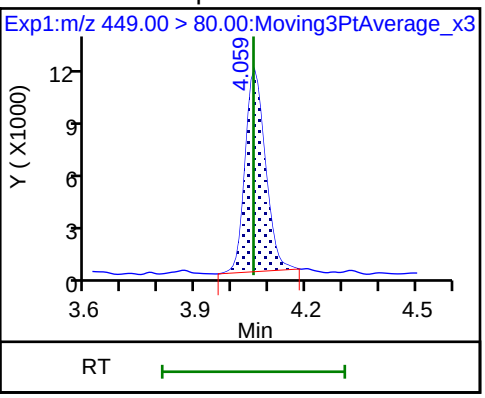
D 20 M2-6:2 FTS



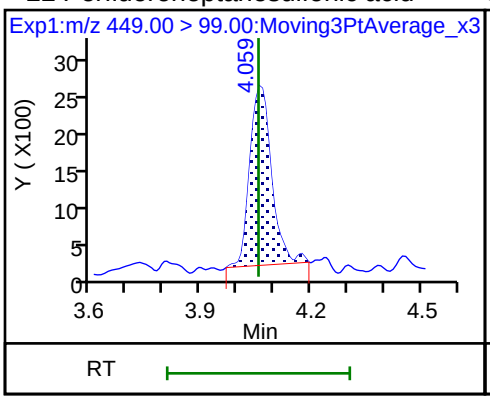
21 6:2 FTS



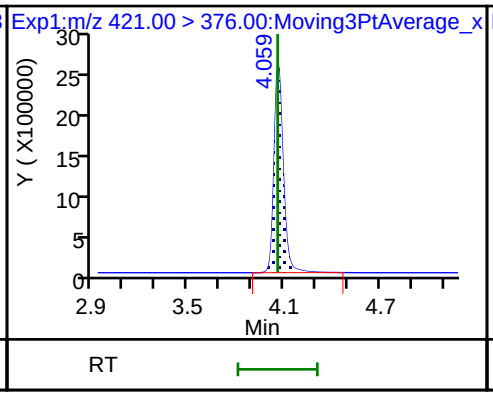
22 Perfluoroheptanesulfonic acid



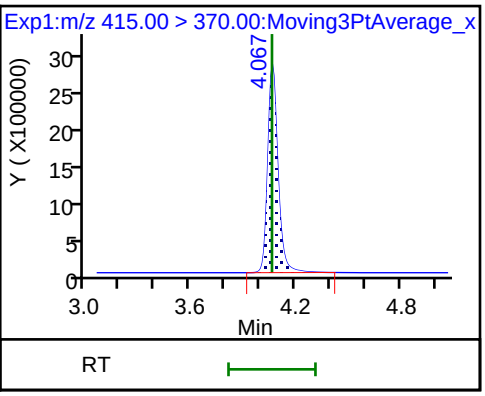
22 Perfluoroheptanesulfonic acid



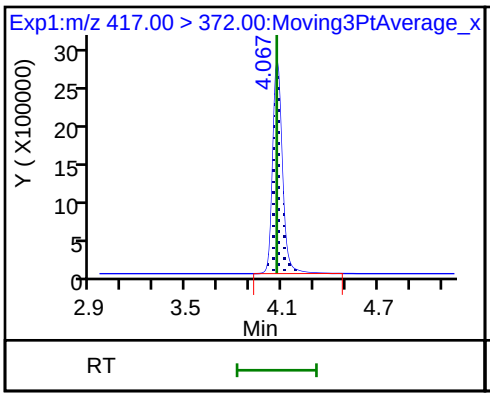
$ 23 13C8 PFOA



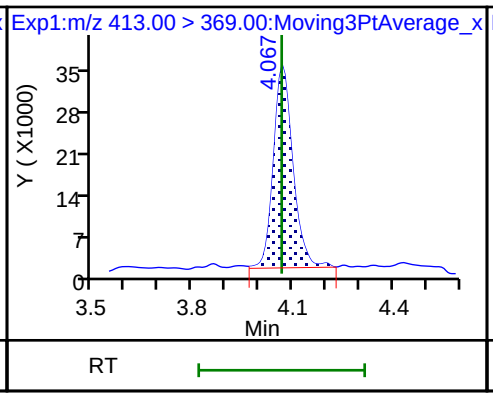
* 25 13C2 PFOA



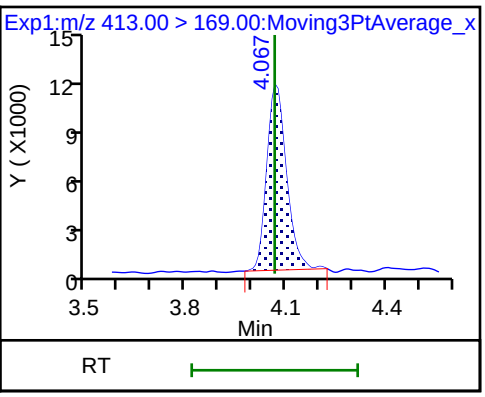
D 24 13C4 PFOA



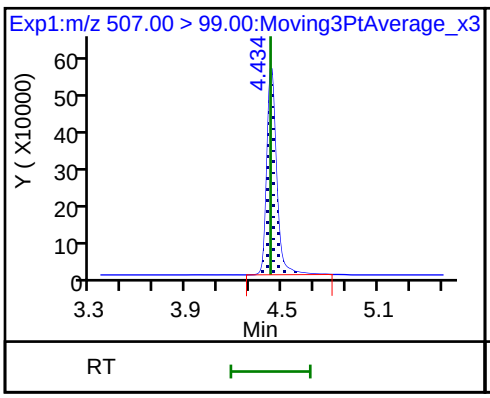
26 Perfluorooctanoic acid



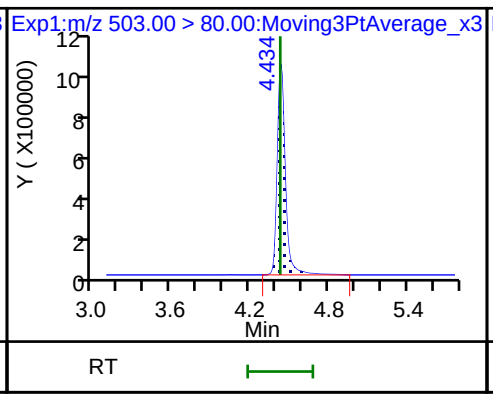
26 Perfluorooctanoic acid



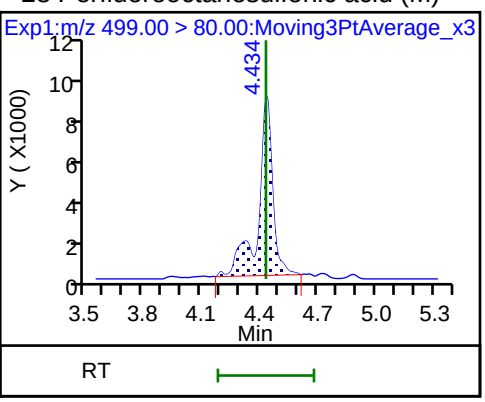
$ 27 13C8 PFOS



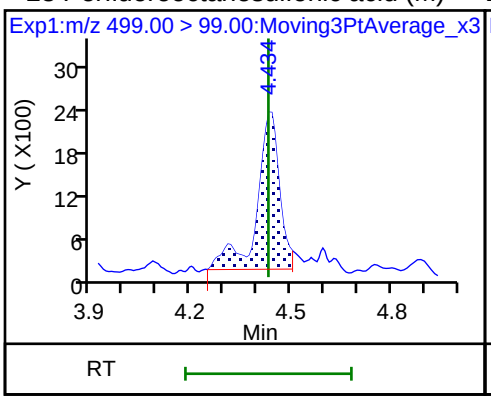
D 29 13C4 PFOS



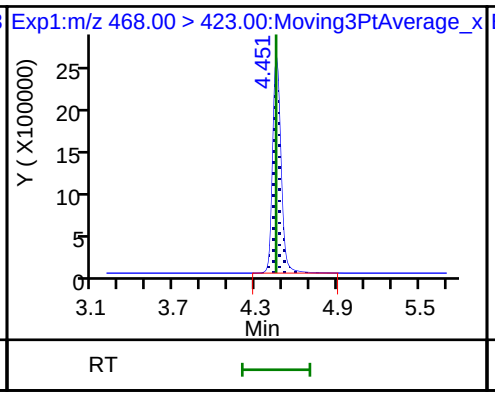
28 Perfluorooctanesulfonic acid (M)



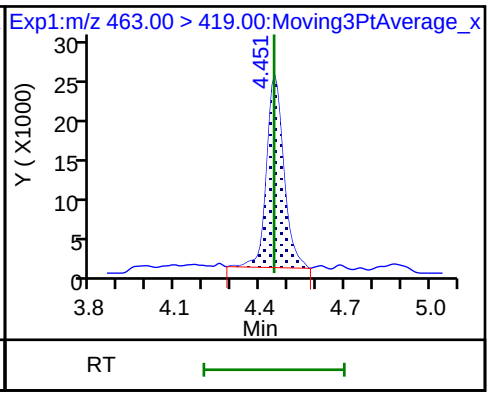
28 Perfluorooctanesulfonic acid (M)



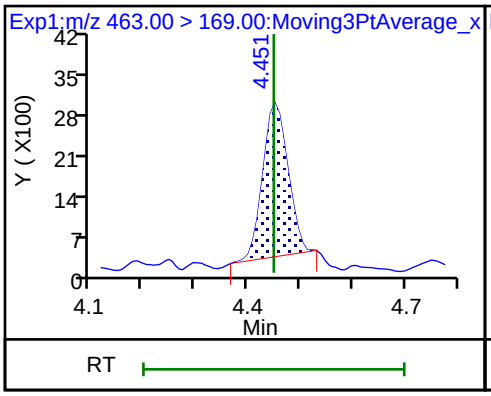
D 31 13C5 PFNA



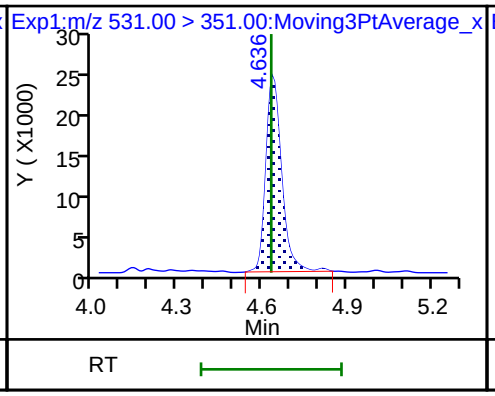
30 Perfluorononanoic acid



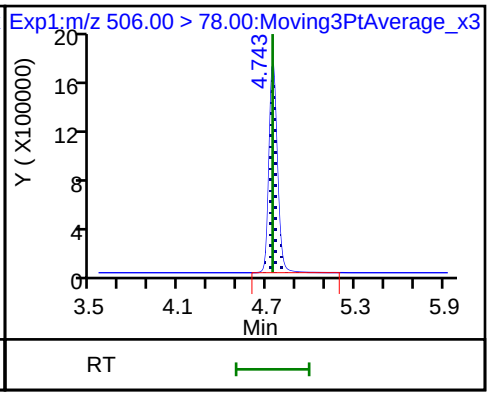
30 Perfluorononanoic acid



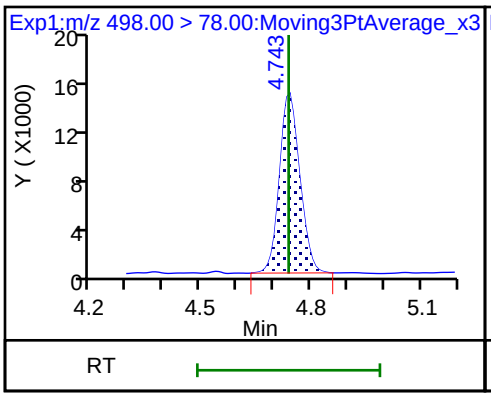
32 9ClFOS



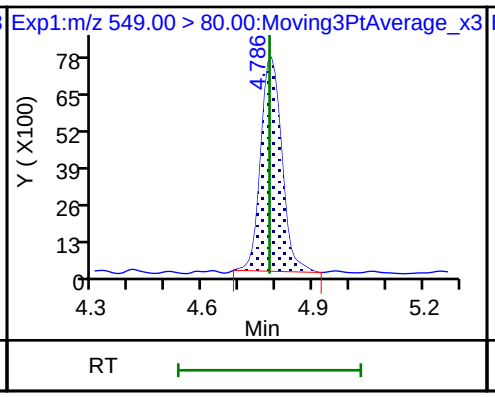
D 34 13C8 FOSA



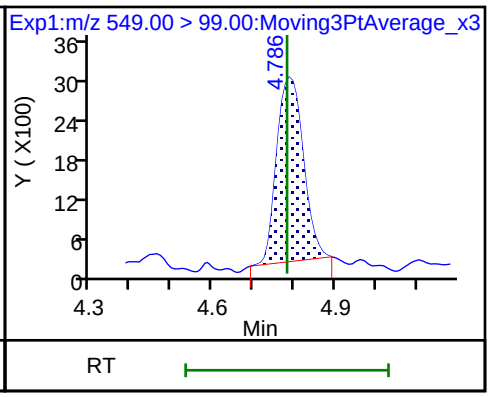
33 Perfluorooctanesulfonamide



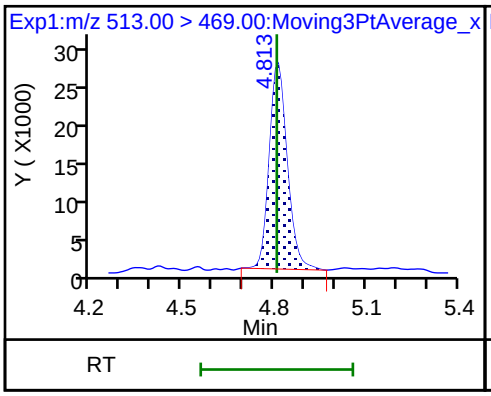
35 Perfluorononanesulfonic acid



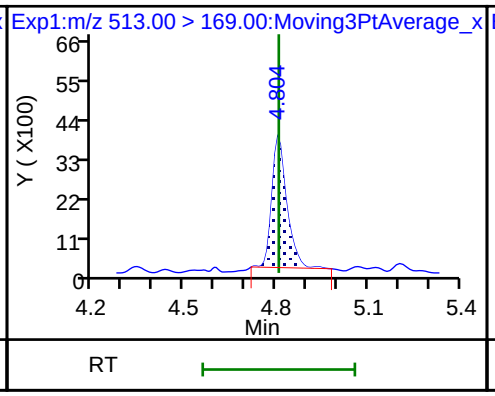
35 Perfluorononanesulfonic acid



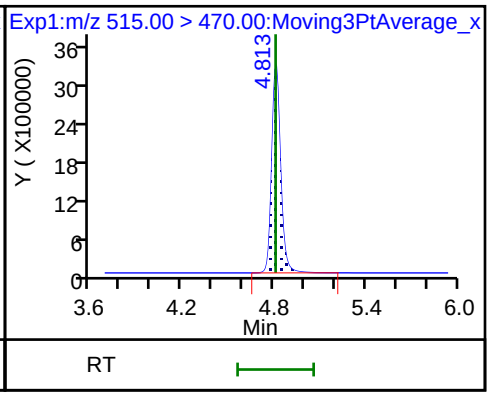
36 Perfluorodecanoic acid



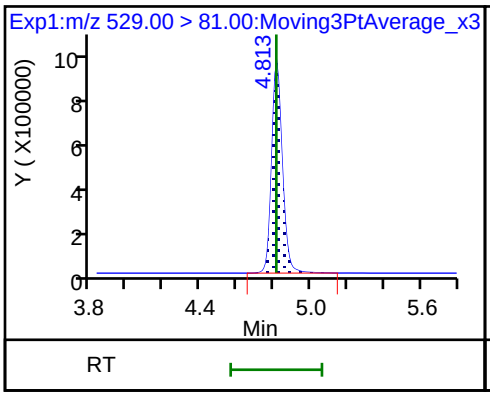
36 Perfluorodecanoic acid



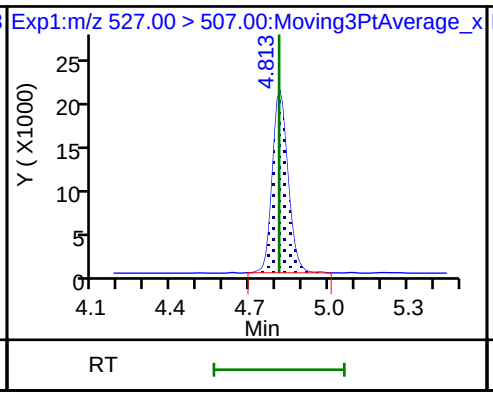
D 37 13C2 PFDA



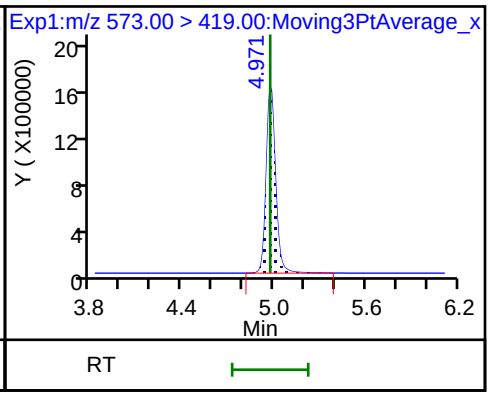
D 38 M2-8:2 FTS



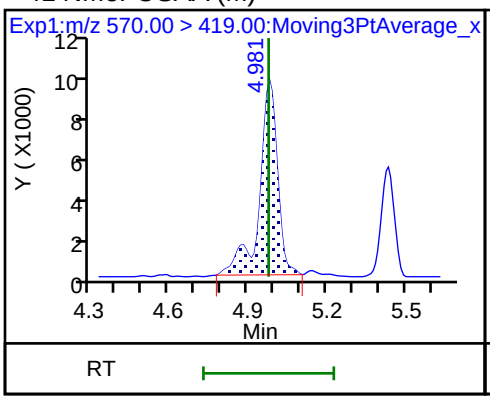
39 8:2 FTS



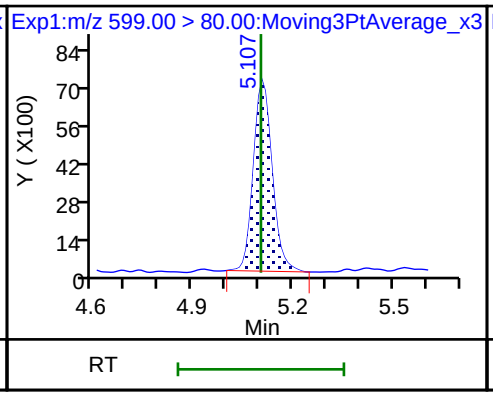
D 40 d3-NMeFOSAA



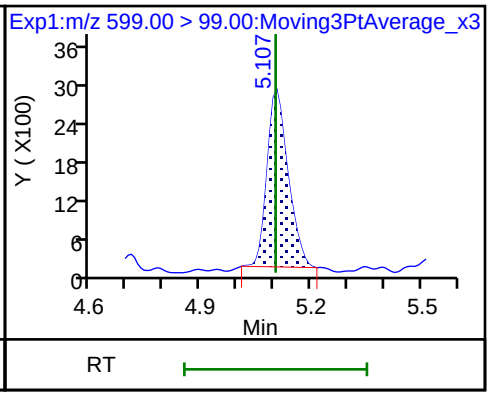
41 NMeFOSAA (M)



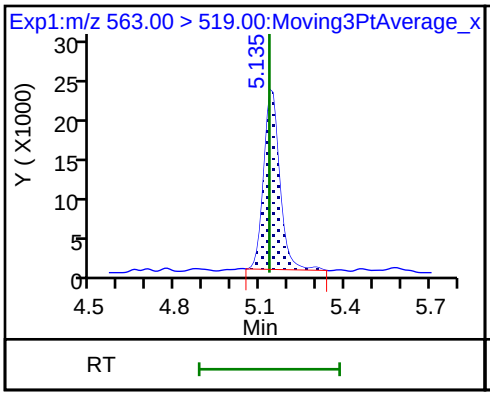
42 Perfluorodecanesulfonic acid



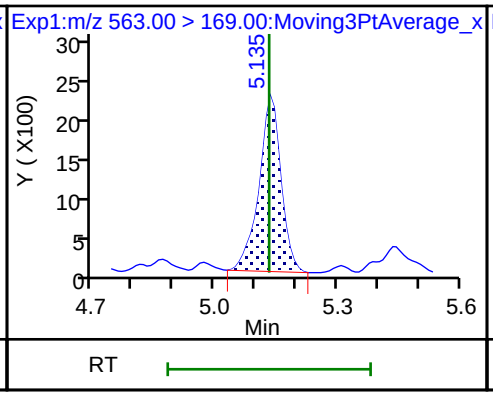
42 Perfluorodecanesulfonic acid



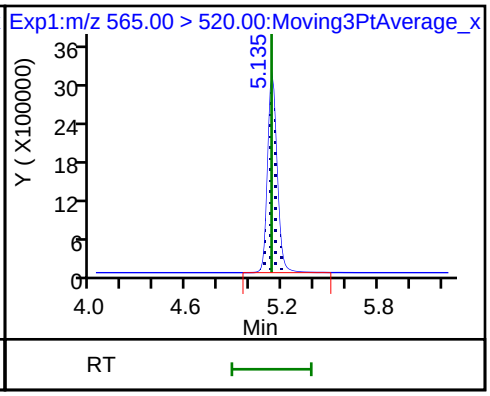
45 Perfluoroundecanoic acid



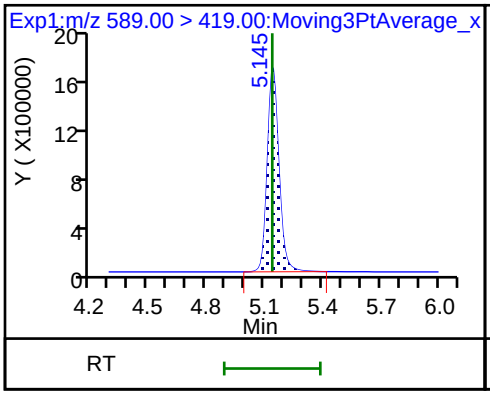
45 Perfluoroundecanoic acid



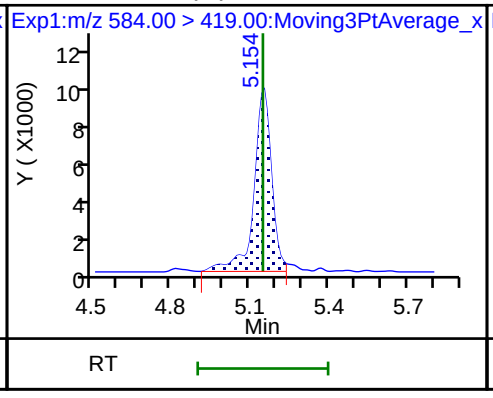
D 44 13C2 PFUnA



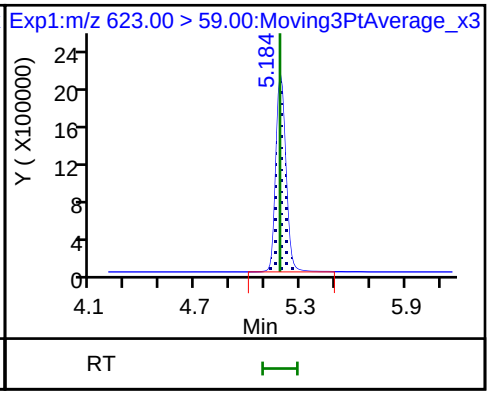
D 46 d5-NEtFOSAA



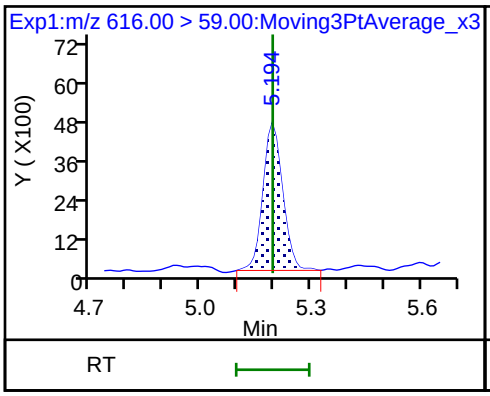
48 NEtFOSA (M)



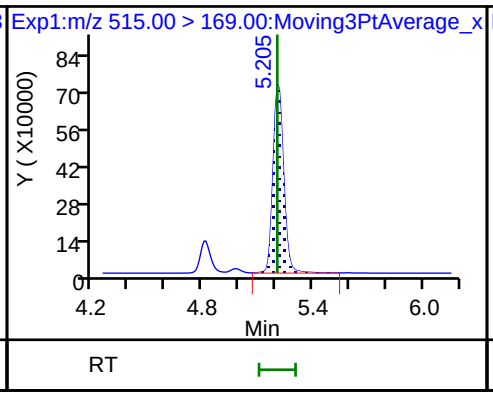
D 43 d7-N-MeFOSE-M



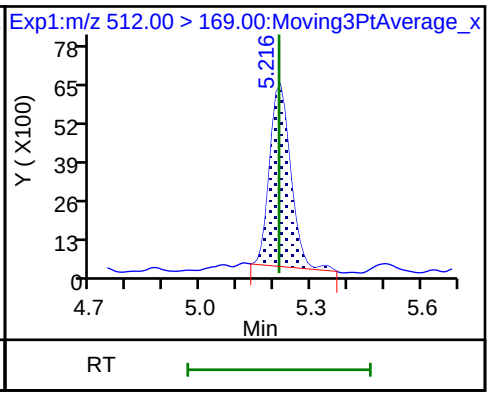
47 N-MeFOSE-M



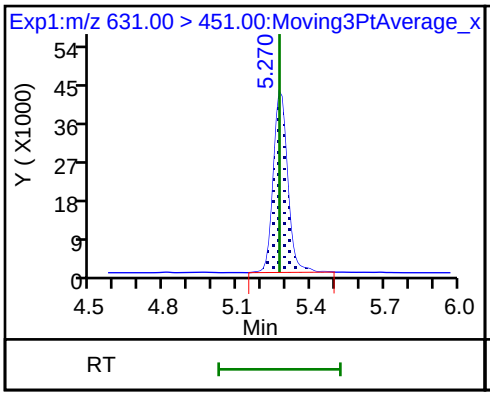
D 49 d-N-MeFOSA-M



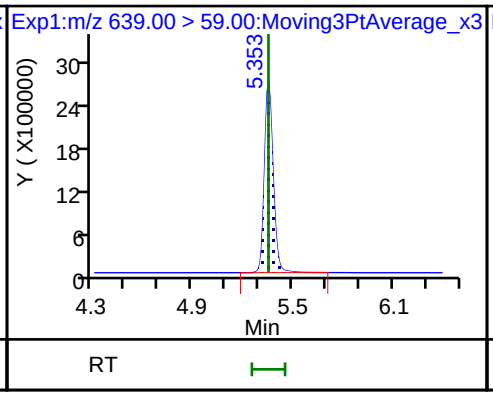
50 NMeFOSA



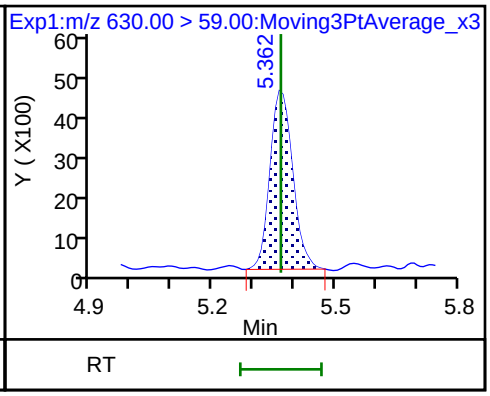
51 11ClFOS



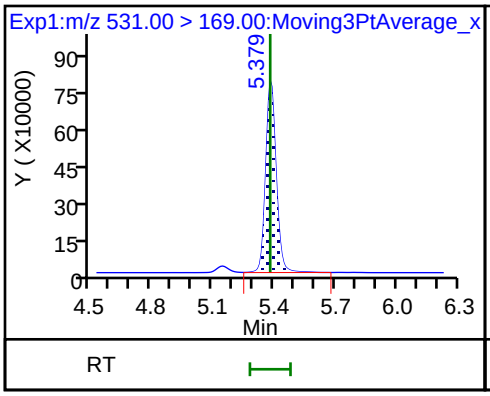
D 52 d9-N-EtFOSE-M



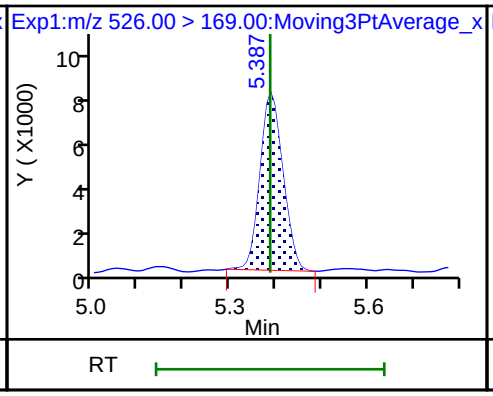
53 N-EtFOSE-M



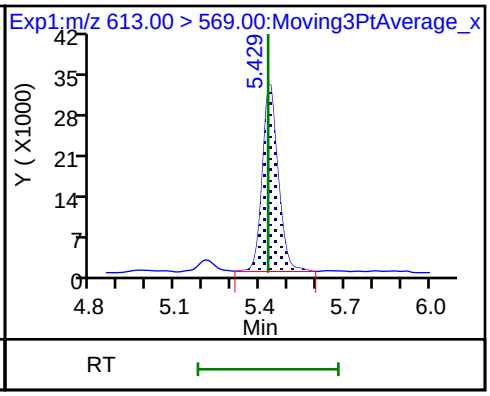
D 54 d-N-EtFOSA-M



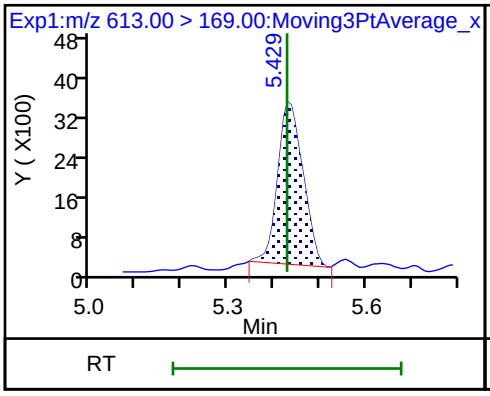
55 N-EtFOSA-M



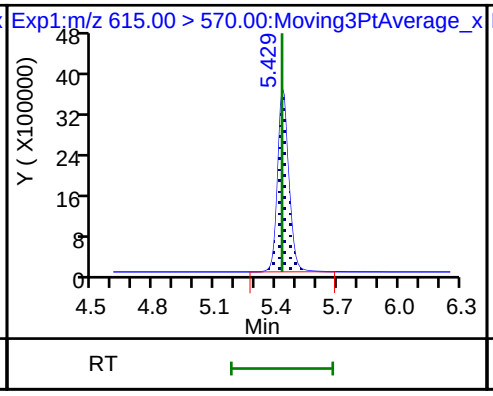
57 Perfluorododecanoic acid



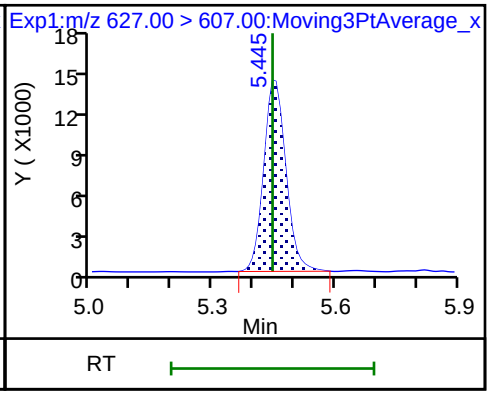
57 Perfluorododecanoic acid



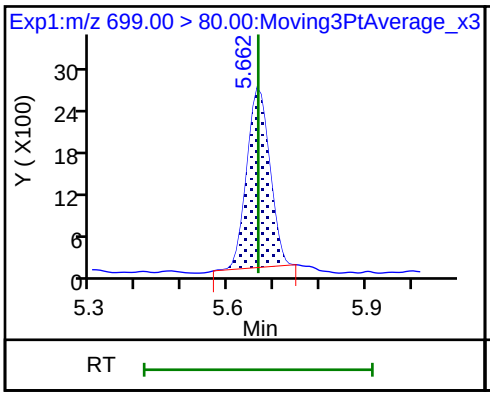
D 56 13C2 PFDoA



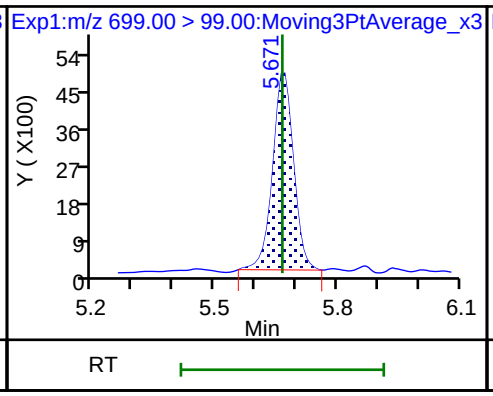
58 10:2 FTS



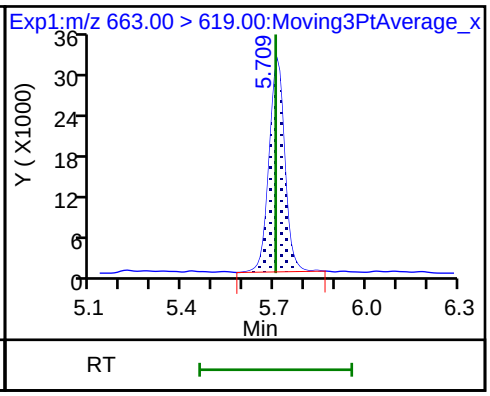
59 PFDoS



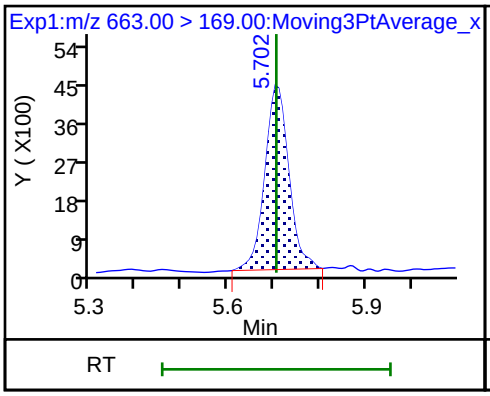
59 PFDoS



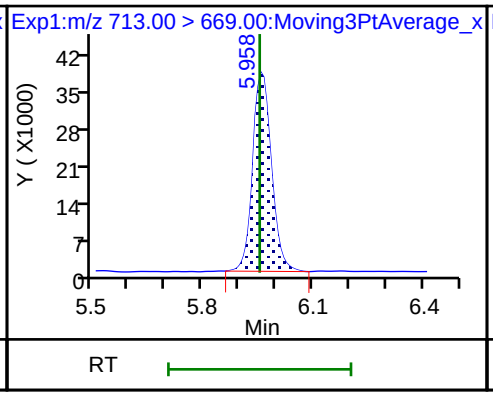
60 Perfluorotridecanoic acid



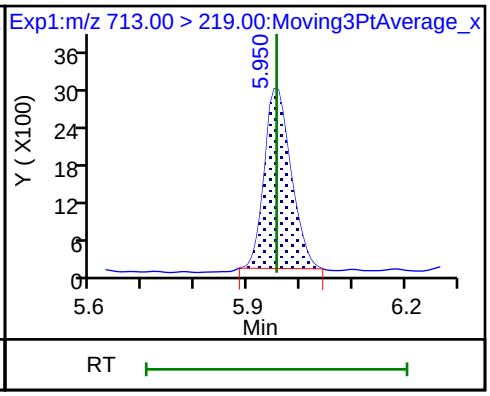
60 Perfluorotridecanoic acid



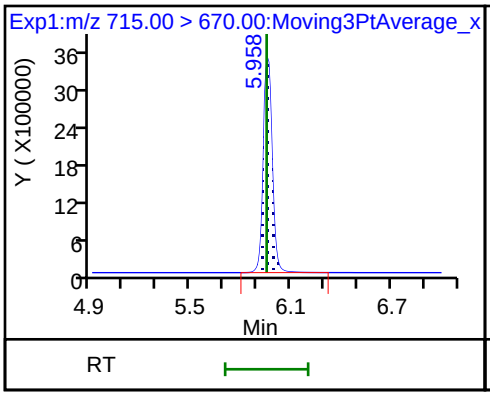
62 Perfluorotetradecanoic acid



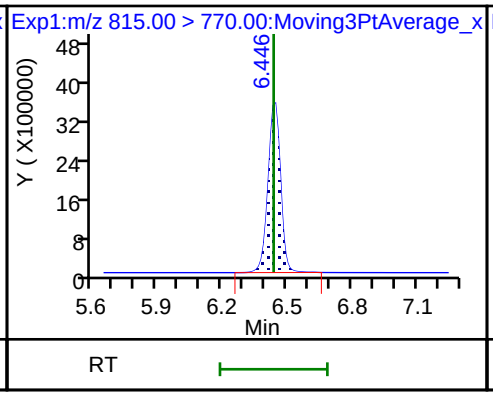
62 Perfluorotetradecanoic acid



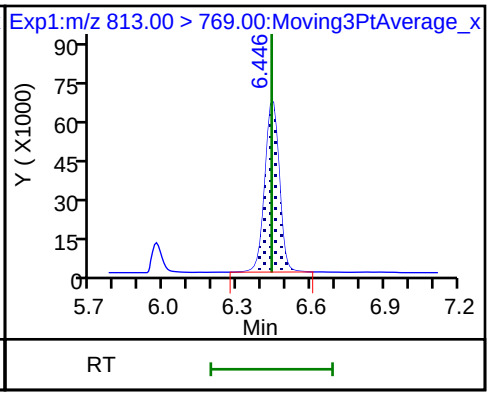
D 61 13C2 PFTeDA



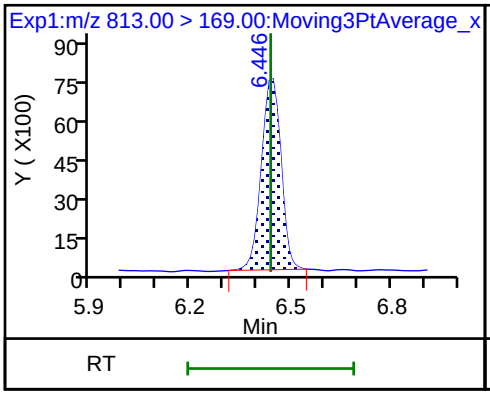
D 64 13C2 PFHxDA



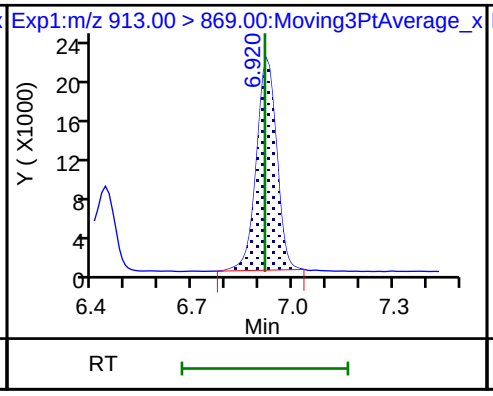
63 Perfluorohexadecanoic acid



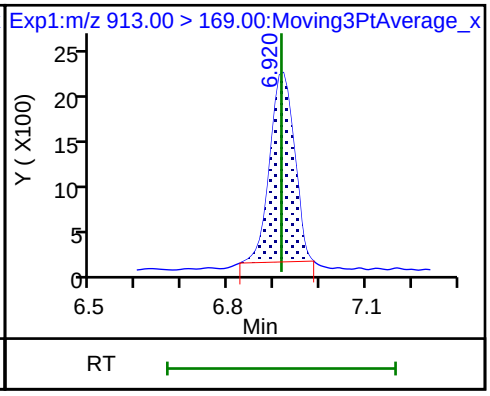
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

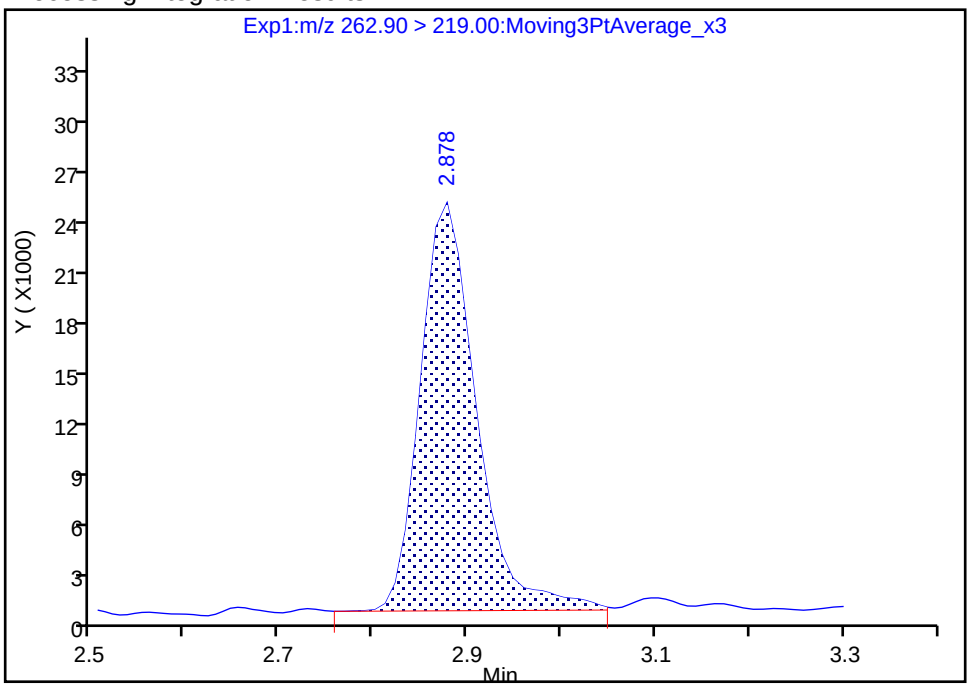
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

5 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

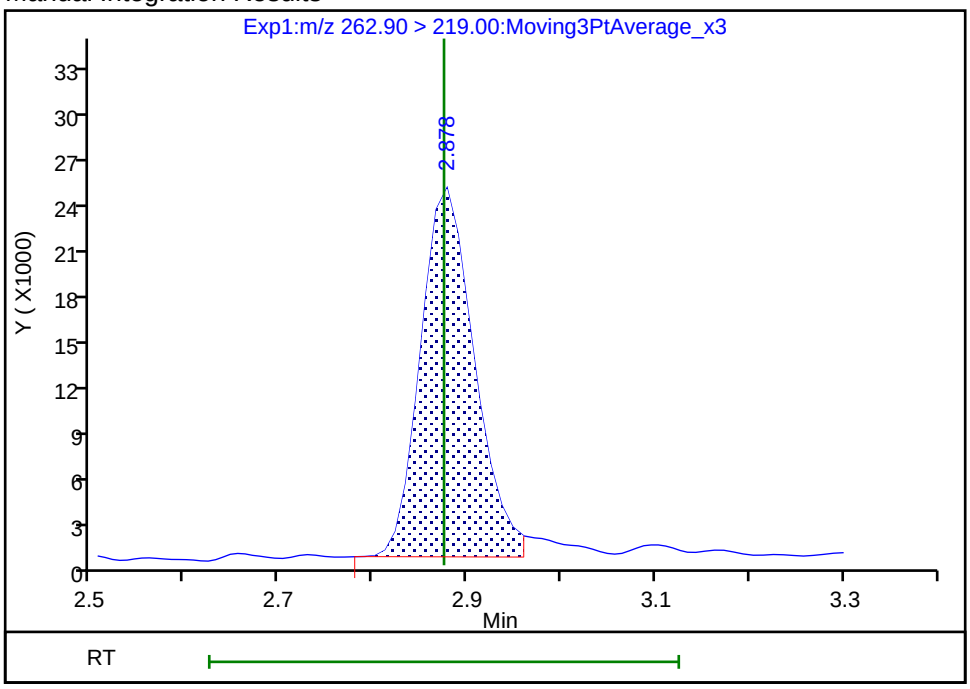
Processing Integration Results

RT: 2.88
Area: 96347
Amount: 0.029987
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 92418
Amount: 0.028967
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:16:50
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

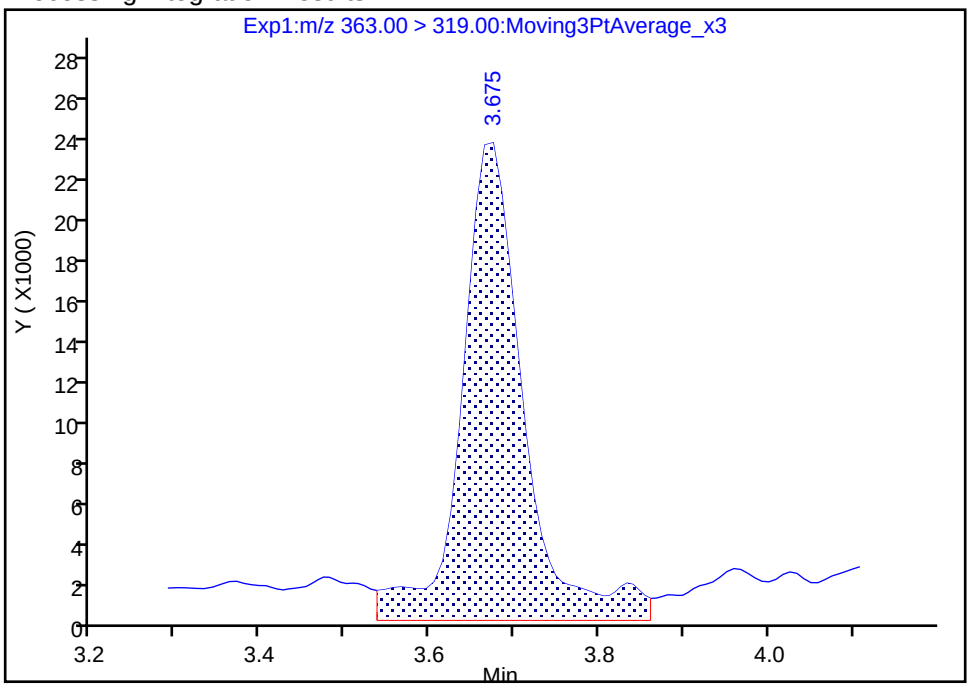
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

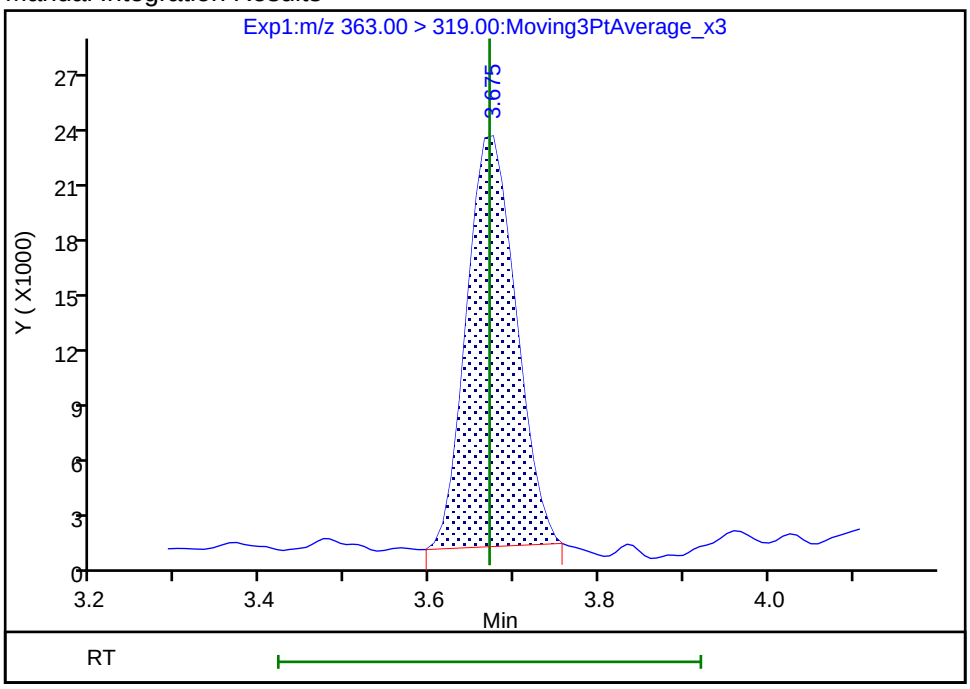
Processing Integration Results

RT: 3.67
Area: 117474
Amount: 0.029599
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 86732
Amount: 0.022865
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:17:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

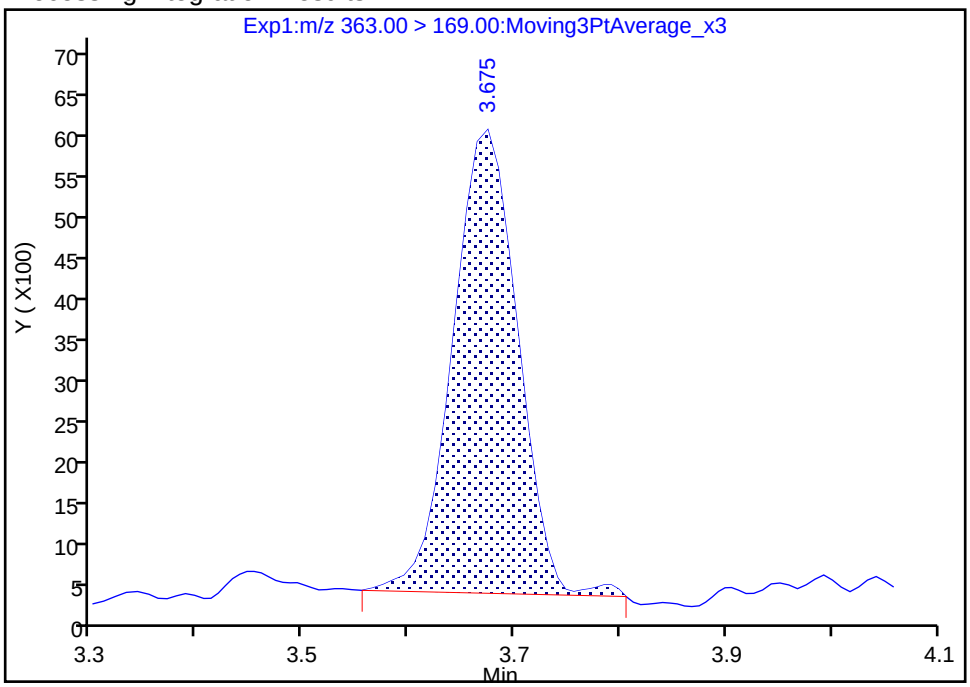
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

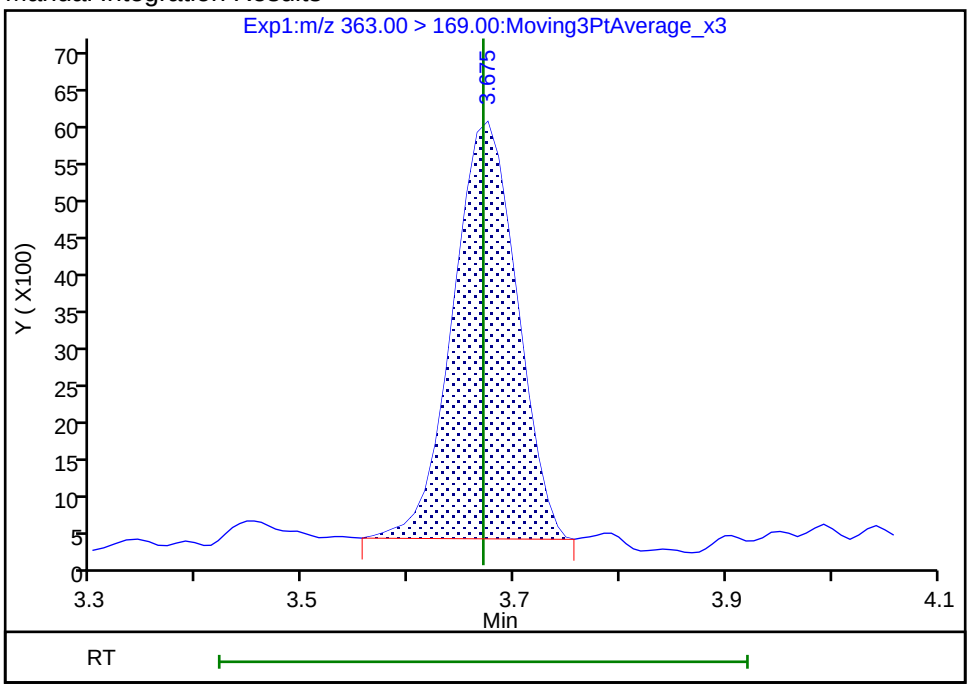
Processing Integration Results

RT: 3.67
Area: 24533
Amount: 0.029599
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 23999
Amount: 0.022865
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:18:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

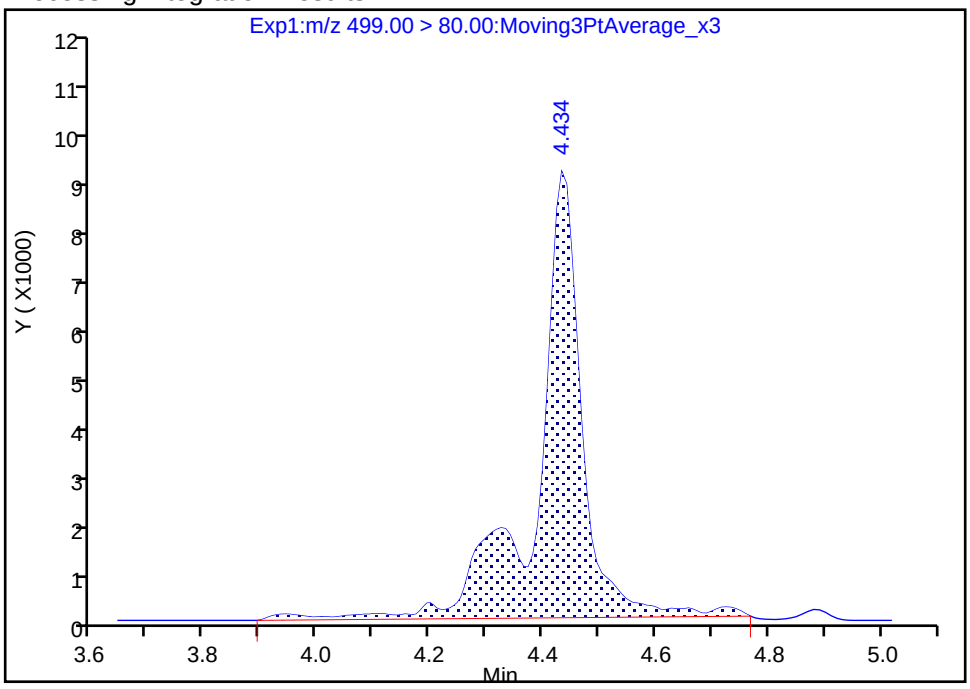
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

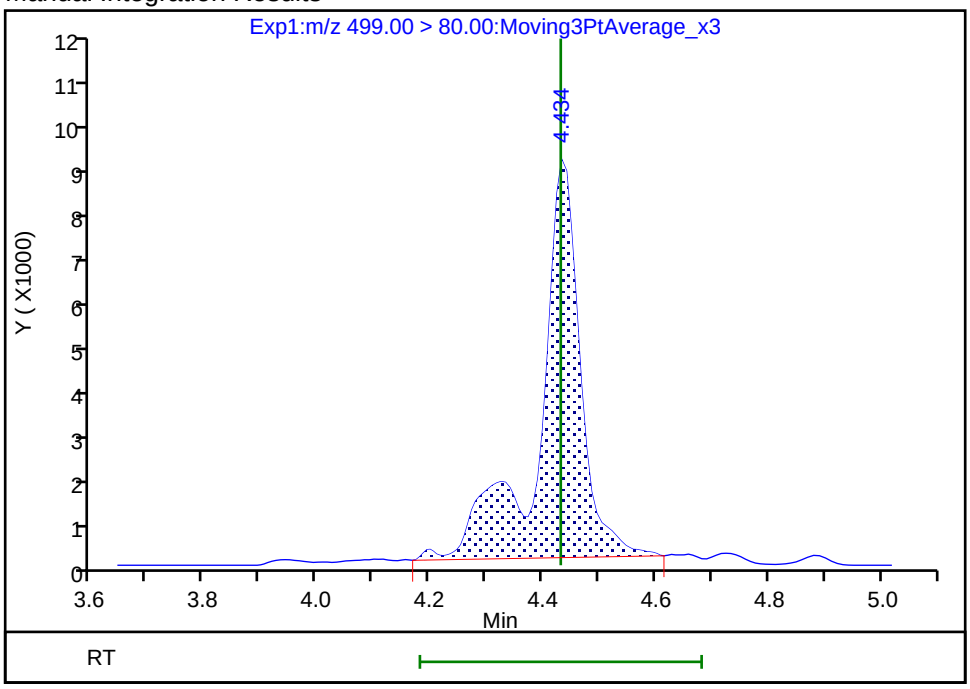
Processing Integration Results

RT: 4.43
Area: 49593
Amount: 0.025219
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 44172
Amount: 0.023351
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:18:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

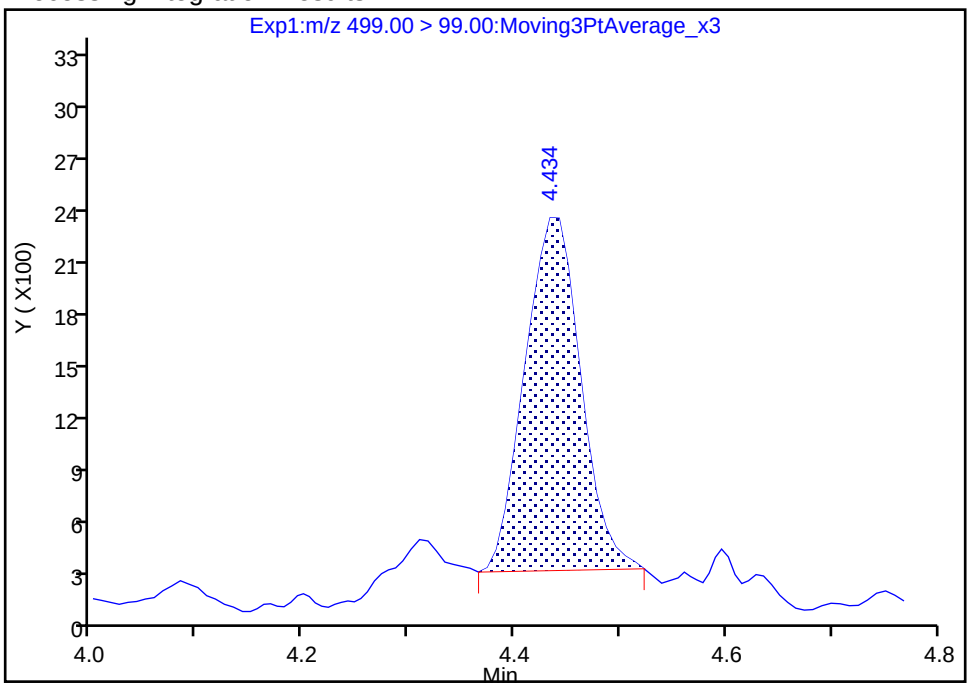
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

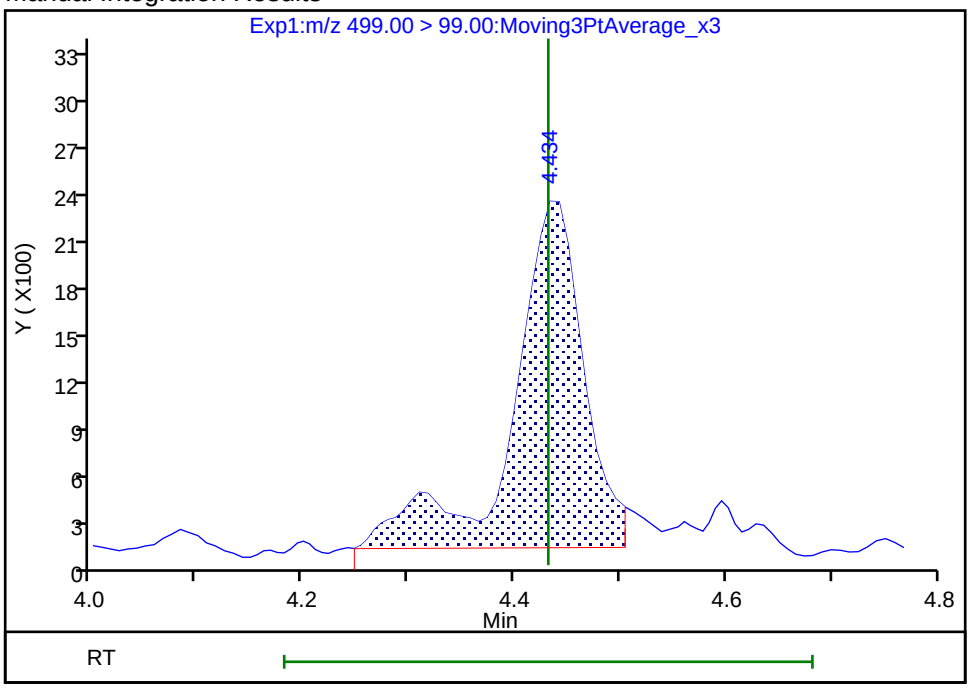
Processing Integration Results

RT: 4.43
Area: 7374
Amount: 0.025219
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 10212
Amount: 0.023351
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:19:19
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

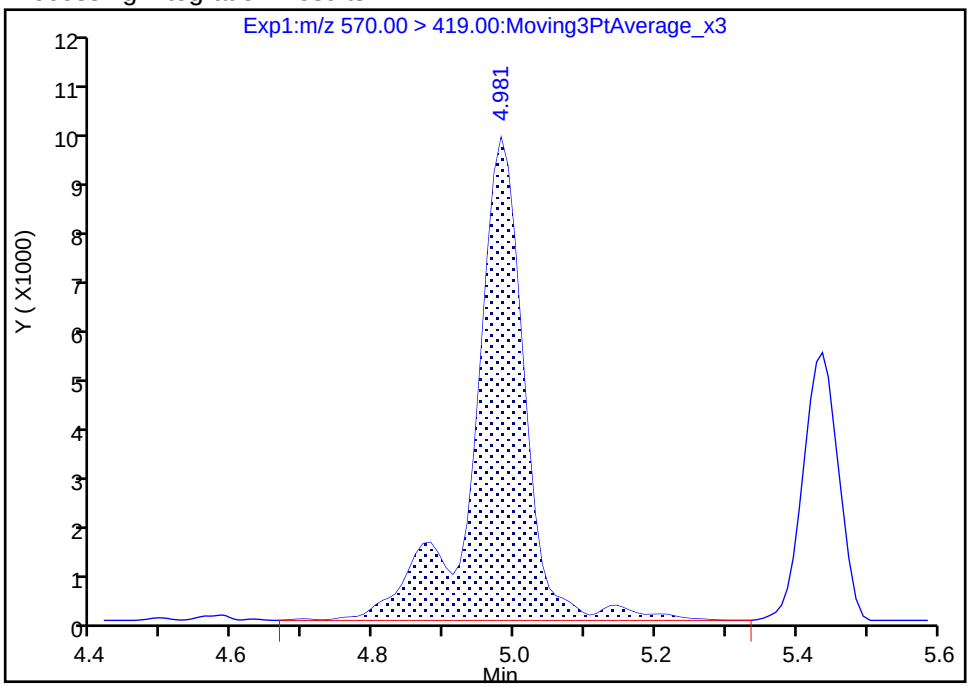
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

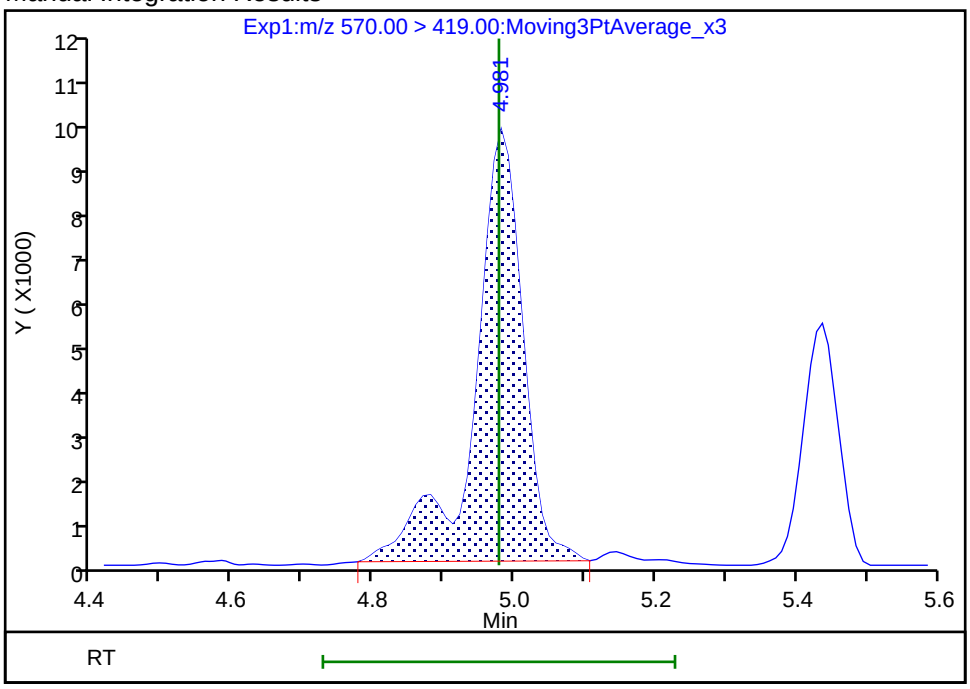
Processing Integration Results

RT: 4.98
Area: 48122
Amount: 0.021987
Amount Units: ng/ml



Manual Integration Results

RT: 4.98
Area: 44870
Amount: 0.021278
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:20:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

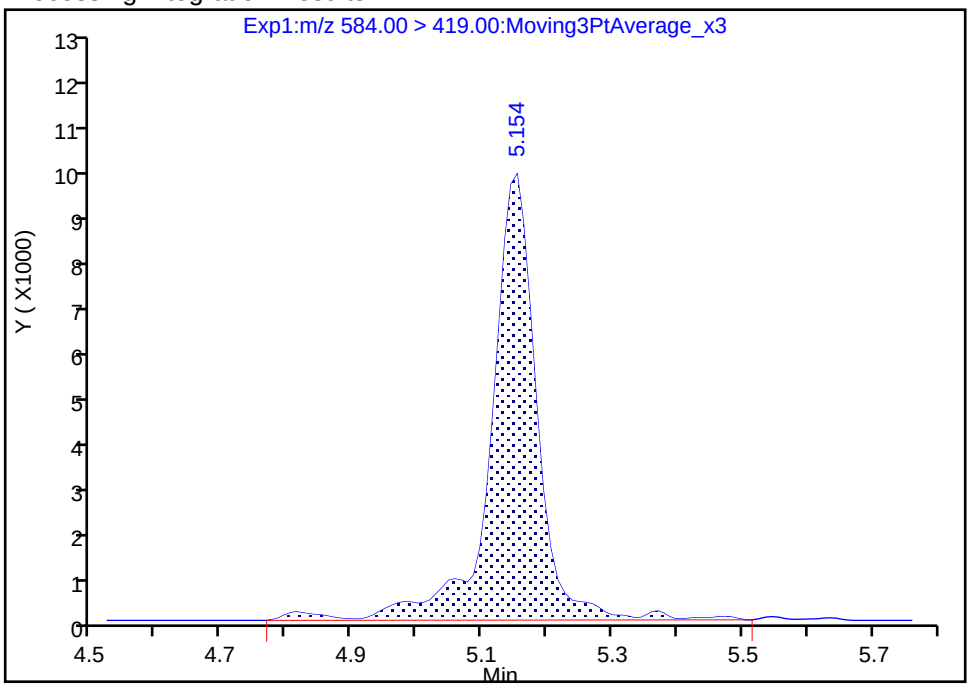
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_004.d
Injection Date: 08-Sep-2020 18:01:46 Instrument ID: A13
Lims ID: IC STD 1
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

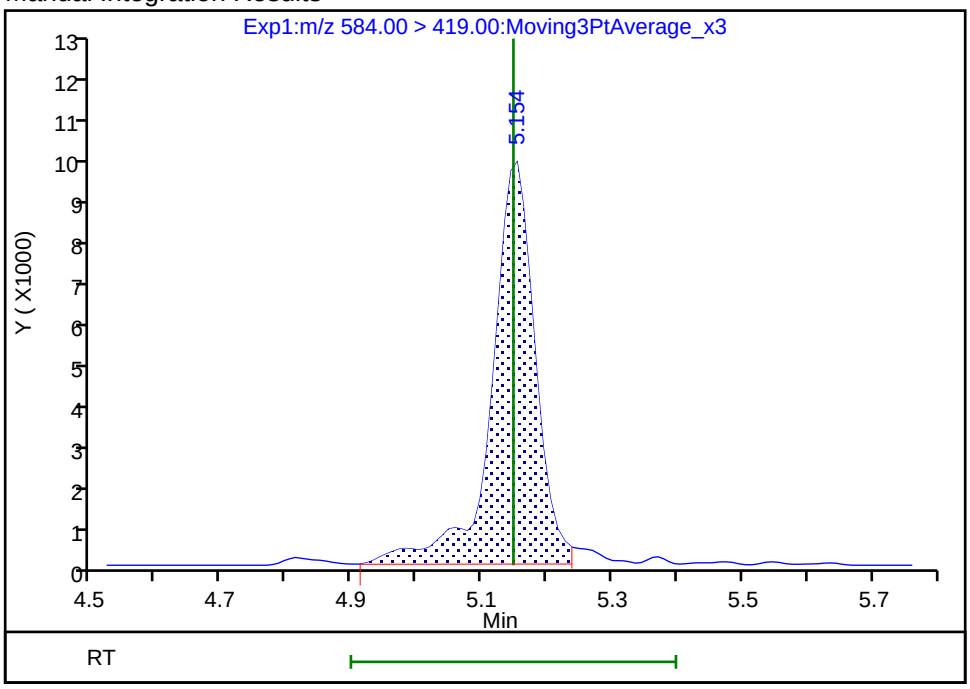
Processing Integration Results

RT: 5.15
Area: 46896
Amount: 0.022098
Amount Units: ng/ml



Manual Integration Results

RT: 5.15
Area: 43786
Amount: 0.020976
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:21:20
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d
Lims ID: IC STD 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Sep-2020 18:11:11 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 2 (20)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:21:48 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 08:50:54
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.482	2.477	0.005	0.610	9473390	2.47		98.8	27930	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.482	2.480	0.002	1.000	123553	0.0439		87.7	41.6	
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.873	0.005	0.708	7438352	2.49		99.5	17518	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.875	0.003	1.000	152923	0.0500		100	23.3	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.716	8360594	2.23		95.8	18664	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	136339	0.0388	Target=2.18	87.7	109	
298.90 > 99.00	2.913	2.913	0.0	1.000	64438		2.12(1.09-3.26)	87.7	33.0	
7 4:2 FTS										
327.00 > 307.00	3.225	3.221	0.004	1.000	134070	0.0448		95.9	574	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.225	3.222	0.003	0.793	2155074	2.34		100	1136	
D 9 13C2 PFHxA										
315.00 > 270.00	3.268	3.264	0.004	0.804	9290117	2.51		101	30616	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.265	0.003	1.000	169905	0.0492	Target=11.68	98.4	30.4	
313.00 > 119.00	3.268	3.265	0.003	1.000	14604		11.63(5.84-17.52)	98.4	6.2	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	121195	0.0427	Target=2.56	91.0	107	
349.00 > 99.00	3.279	3.279	0.0	1.126	48672		2.49(1.28-3.84)	91.0	51.3	
12 HPFO-DA										
285.00 > 169.00	3.388	3.386	0.002	1.000	35679	0.0465		92.9	287	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.386	0.002	0.833	6457615	2.44		97.5	4665	
D 15 13C4 PFHpA										
367.00 > 322.00	3.674	3.668	0.006	0.904	9082861	2.50		99.9	39589	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.674	3.670	0.004	1.000	189696	0.0517	Target=3.85	103	25.7	
363.00 > 169.00	3.665	3.670	-0.006	0.997	43430		4.37(1.92-5.77)	103	26.6	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.674	3.672	0.002	1.000	120086	0.0448	Target=3.25	98.4	129	M
399.00 > 99.00	3.674	3.672	0.002	1.000	39110		3.07(1.62-4.87)	98.4	36.3	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.674	3.672	0.002	0.904	5703634	2.32		98.0	3072	
19 DONA										
377.00 > 251.00	3.722	3.719	0.003	0.839	405770	0.0453	Target=2.76	96.3	861	
377.00 > 85.00	3.713	3.719	-0.006	0.837	137577		2.95(1.38-4.14)	96.3	383	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.043	-0.001	0.994	2633110	2.48		105	4644	
21 6:2 FTS										
427.00 > 407.00	4.042	4.043	-0.001	1.000	129089	0.0484		102	267	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.059	4.056	0.003	0.915	86028	0.0434	Target=4.29	91.1	122	
449.00 > 99.00	4.059	4.056	0.003	0.915	18166		4.74(2.15-6.44)	91.1	27.8	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.058	0.001	0.998	9576396	2.38		97.3	10633	
* 25 13C2 PFOA										
415.00 > 370.00	4.067	4.065	0.002		11286436	2.50			10082	
D 24 13C4 PFOA										
417.00 > 372.00	4.067	4.065	0.002	1.000	11128157	2.50		100	21960	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.066	0.001	1.000	235055	0.0516	Target=2.95	103	48.1	
413.00 > 169.00	4.067	4.066	0.001	1.000	73514		3.20(1.47-4.42)	103	96.8	
$ 27 13C8 PFOS										
507.00 > 99.00	4.426	4.426	0.0	1.088	2184217	2.33		97.5	3447	
D 29 13C4 PFOS										
503.00 > 80.00	4.435	4.429	0.006	1.090	4164582	2.37		99.3	6494	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.435	4.432	0.003	1.000	73805	0.0408	Target=4.28	87.9	69.3	M
499.00 > 99.00	4.426	4.432	-0.006	0.998	17915		4.12(2.14-6.41)	87.9	29.0	M
D 31 13C5 PFNA										
468.00 > 423.00	4.452	4.448	0.004	1.095	10206104	2.48		99.4	9827	
30 Perfluorononanoic acid										
463.00 > 419.00	4.452	4.449	0.003	1.000	179366	0.0463	Target=8.00	92.6	46.0	
463.00 > 169.00	4.452	4.449	0.003	1.000	25709		6.98(4.00-12.01)	92.6	44.8	
32 9ClFOS										
531.00 > 351.00	4.635	4.632	0.003	1.045	189474	0.0435		93.3	214	
D 34 13C8 FOSA										
506.00 > 78.00	4.742	4.738	0.004	1.166	6088259	2.41		96.6	4803	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.742	4.739	0.003	1.000	108069	0.0473		94.6	489	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.786	4.781	0.005	1.079	56843	0.0421	Target=2.15	87.7	144	
549.00 > 99.00	4.777	4.781	-0.004	1.077	27088		2.10(1.08-3.23)	87.7	54.4	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.813	4.808	0.005	1.000	218271	0.0491	Target=10.44	98.1	114	
513.00 > 169.00	4.813	4.808	0.005	1.000	19137		11.41(5.22-15.65)	98.1	41.5	
D 37 13C2 PFDA										
515.00 > 470.00	4.813	4.808	0.005	1.183	12408694	2.49		99.7	28693	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.810	0.003	1.183	3515524	2.51		105	5258	
39 8:2 FTS										
527.00 > 507.00	4.813	4.810	0.003	1.000	166092	0.0458		95.6	1183	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.980	4.972	0.008	1.225	6387921	2.49		99.6	4989	
41 NMeFOSAA										M
570.00 > 419.00	4.980	4.978	0.002	1.000	95954	0.0466		93.2	27.7	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.106	5.103	0.003	1.151	49232	0.0429	Target=2.36	89.0	151	
599.00 > 99.00	5.106	5.103	0.003	1.151	19763		2.49(1.18-3.54)	89.0	66.3	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.134	5.132	0.002	1.000	142918	0.0436	Target=8.67	87.3	113	
563.00 > 169.00	5.134	5.132	0.002	1.000	21159		6.75(4.34-13.01)	87.3	80.3	
D 44 13C2 PFUnA										
565.00 > 520.00	5.134	5.132	0.002	1.262	12374202	2.54		102	8250	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.144	5.139	0.005	1.265	6476169	2.61		104	2613	
48 NEtFOSA										M
584.00 > 419.00	5.153	5.148	0.005	1.002	87576	0.0437		87.3	201	M
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.183	5.182	0.001	1.274	7474639	11.8		94.8	2802	
47 N-MeFOSE-M										
616.00 > 59.00	5.204	5.195	0.009	1.004	29334	0.0461		92.2	54.9	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.204	5.205	-0.001	1.280	2769186	2.33		93.4	42.5	
50 NMeFOSA										
512.00 > 169.00	5.215	5.213	0.002	1.002	49525	0.0455		91.0	117	
51 11ClFOS										
631.00 > 451.00	5.269	5.271	-0.002	1.188	316523	0.0421		89.3	953	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.352	0.001	1.316	8977322	12.1		97.0	2421	
53 N-EtFOSE-M										
630.00 > 59.00	5.370	5.366	0.004	1.003	39060	0.0525		105	92.3	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.378	5.379	-0.001	1.322	2682893	2.37		94.7	239	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.386	0.001	1.002	54851	0.0481		96.3	91.5	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.436	5.428	0.008	1.000	234353	0.0494	Target=9.05	98.9	156	
613.00 > 169.00	5.436	5.428	0.008	1.000	26216		8.94(4.52-13.57)	98.9	109	
D 56 13C2 PFDoA										
615.00 > 570.00	5.436	5.428	0.008	1.337	12993670	2.48		99.2	6242	
58 10:2 FTS										
627.00 > 607.00	5.445	5.445	0.0	1.131	107845	0.0450		93.4	730	
59 PFDoS										
699.00 > 80.00	5.670	5.665	0.005	1.279	20826	0.0465	Target=0.57	96.0	176	
699.00 > 99.00	5.670	5.665	0.005	1.279	33867		0.61(0.29-0.86)	96.0	133	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.701	5.704	-0.003	1.049	234324	0.0481	Target=7.06	96.2	268	
663.00 > 169.00	5.701	5.704	-0.003	1.049	30709		7.63(3.53-10.59)	96.2	162	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.957	5.953	0.004	1.465	12335685	2.38		95.4	15072	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.965	5.954	0.011	1.001	250286	0.0515	Target=11.23	103	186	
713.00 > 219.00	5.957	5.954	0.003	1.000	22332		11.21(5.62-16.85)	103	173	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.440	6.437	0.003	1.584	13657597	2.54		101	7678	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.440	6.439	0.001	1.000	388029	0.0500	Target=9.45	100	93.0	
813.00 > 169.00	6.440	6.439	0.001	1.000	41369		9.38(4.72-14.17)	100	191	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.923	6.915	0.008	1.075	179176	0.0449	Target=11.13	89.8	114	
913.00 > 169.00	6.923	6.915	0.008	1.075	16143		11.10(5.56-16.69)	89.8	130	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00020 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:21:51 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d

Injection Date: 08-Sep-2020 18:11:11 Instrument ID: A13

Lims ID: IC STD 2

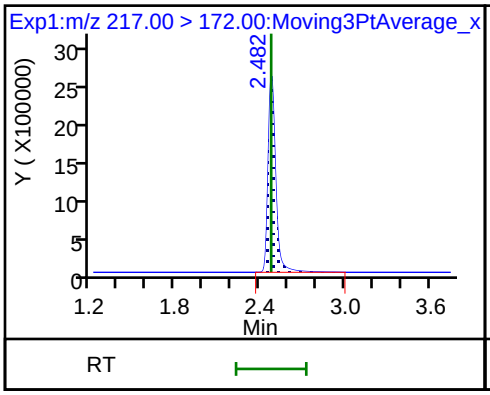
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3

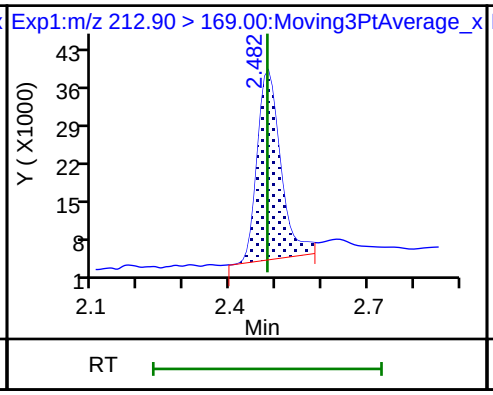
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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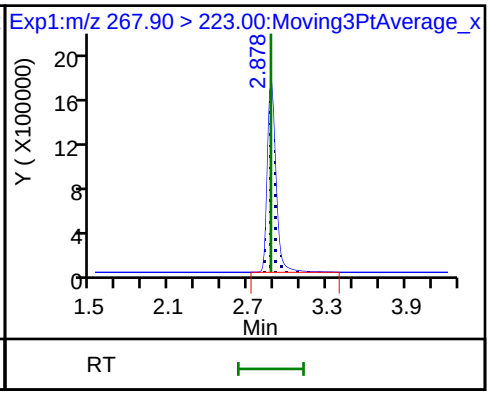
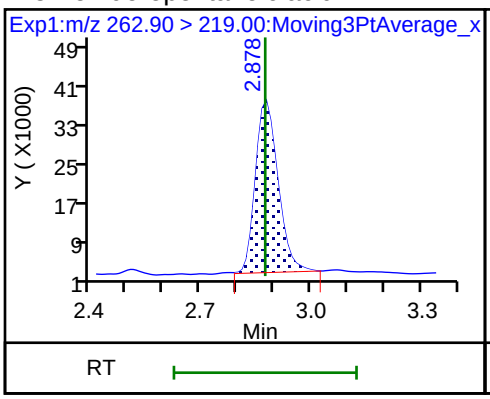


5 Perfluoropentanoic acid



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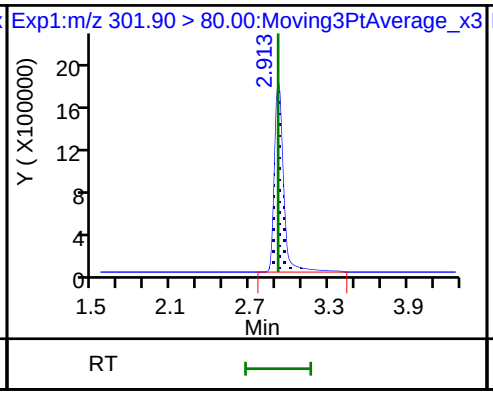
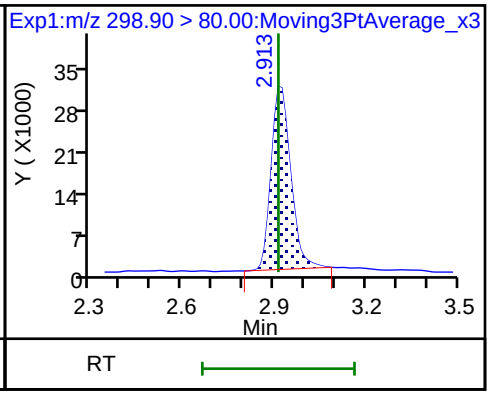
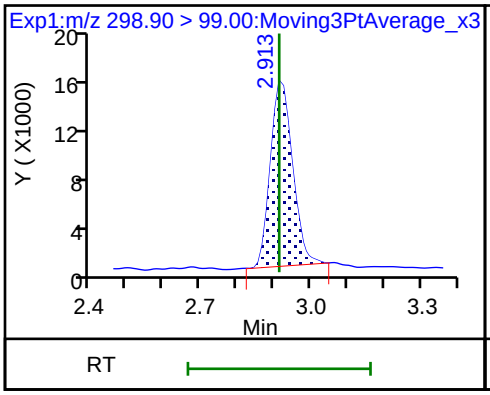


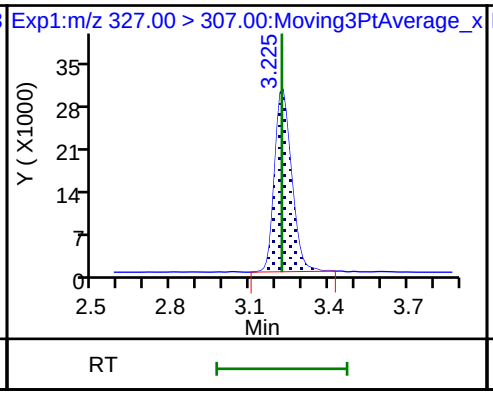
6 Perfluorobutanesulfonic acid



6 Perfluorobutanesulfonic acid



7 4:2 FTS



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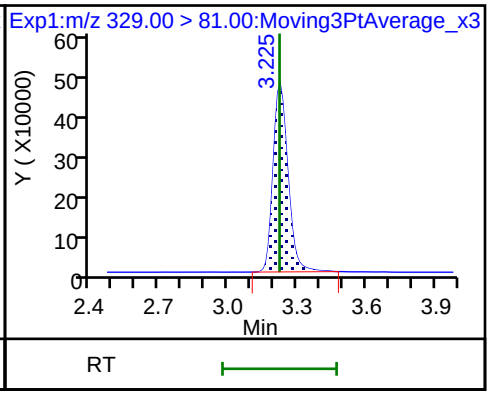
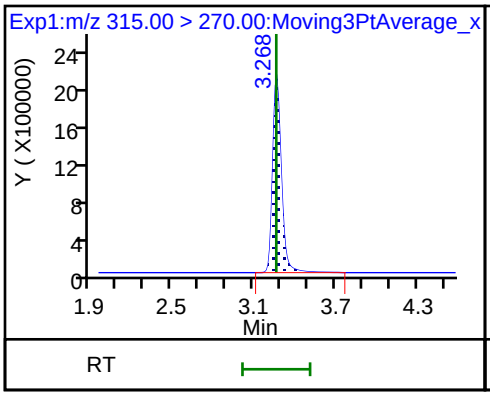
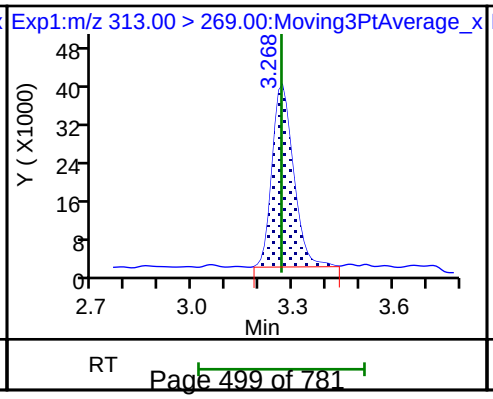


D 9 13C2 PFHxA



10 Perfluorohexanoic acid



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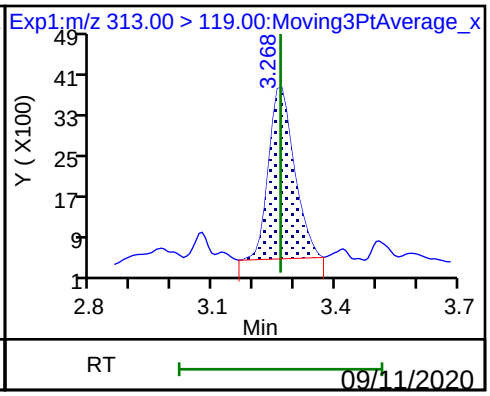
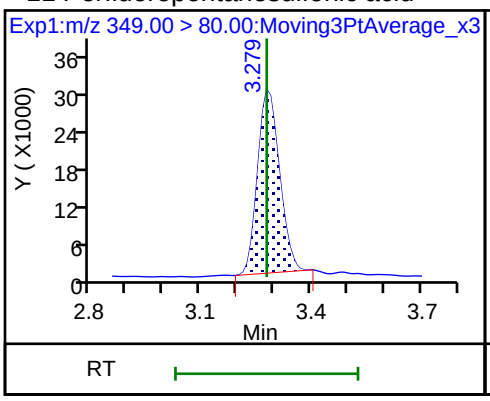


11 Perfluoropentanesulfonic acid



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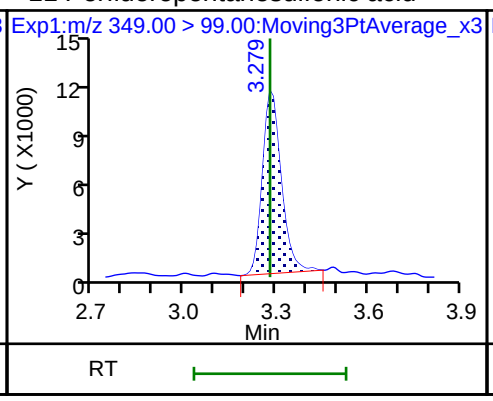
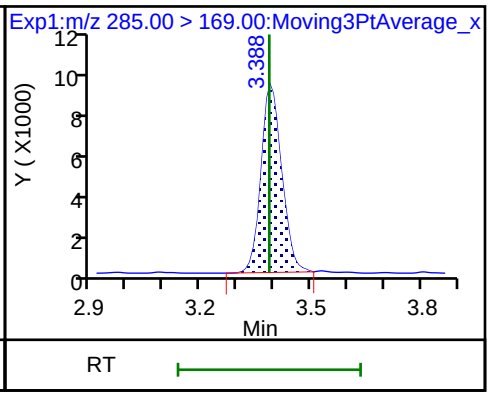
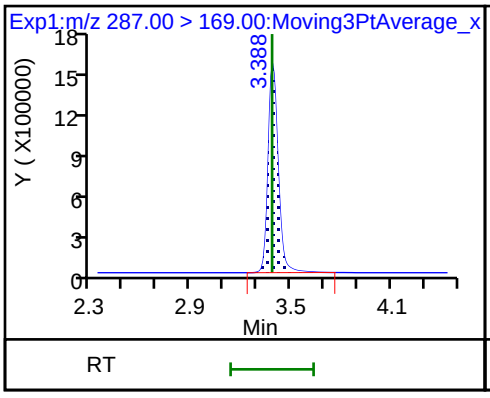


12 HPFO-DA



D 13 13C3 HFPO-DA



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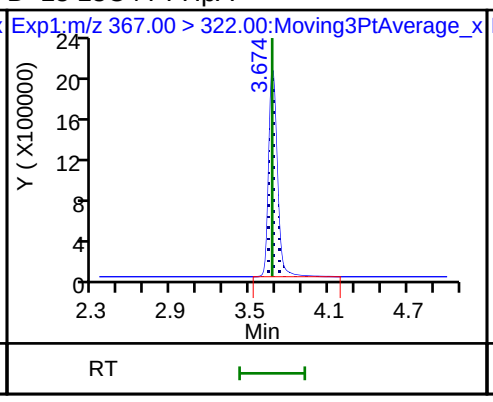
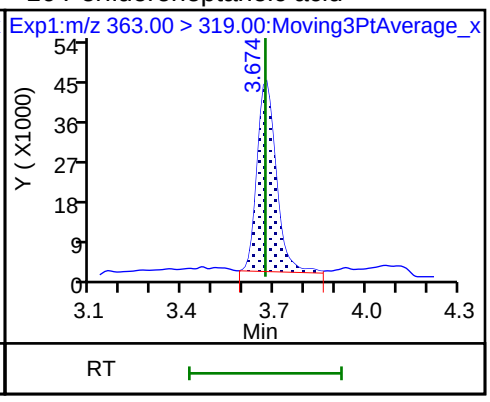
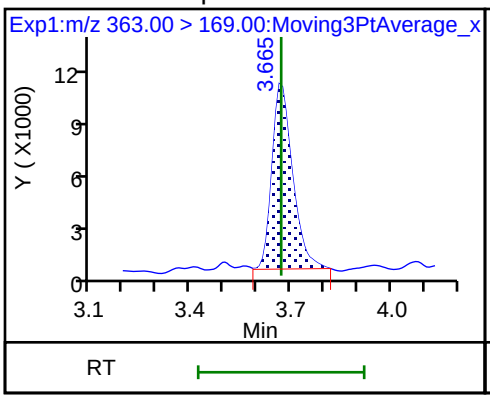


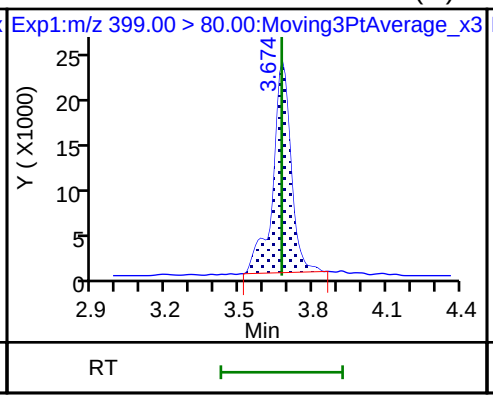
16 Perfluoroheptanoic acid



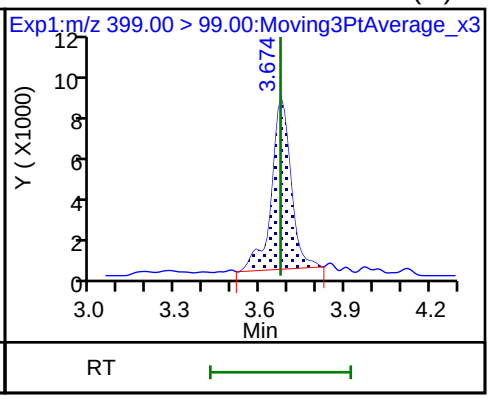
16 Perfluoroheptanoic acid



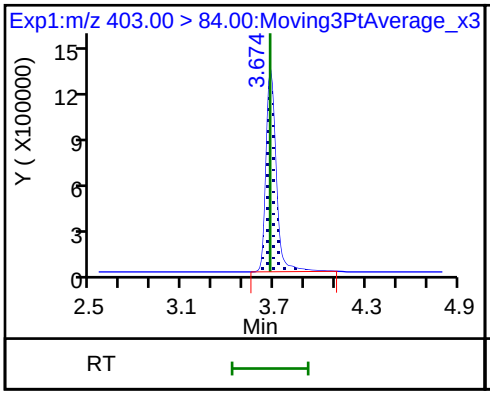
18 Perfluorohexanesulfonic acid (M)



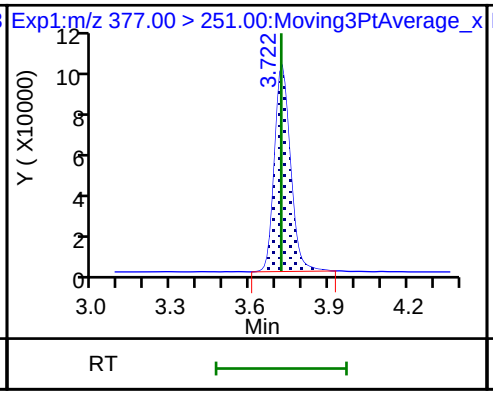
18 Perfluorohexanesulfonic acid (M)



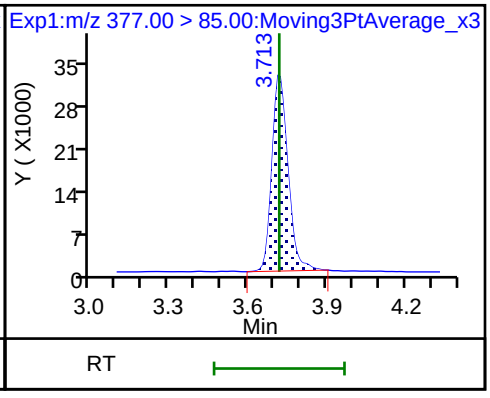
D 17 18O2 PFHxS



19 DONA



19 DONA



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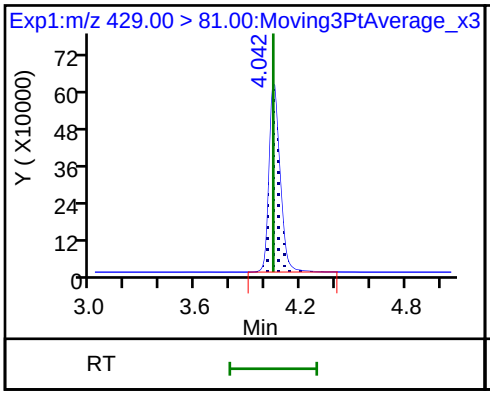
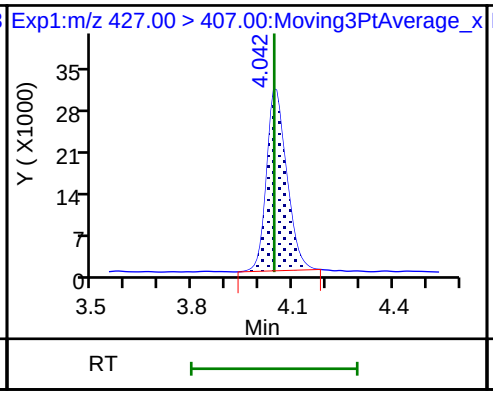
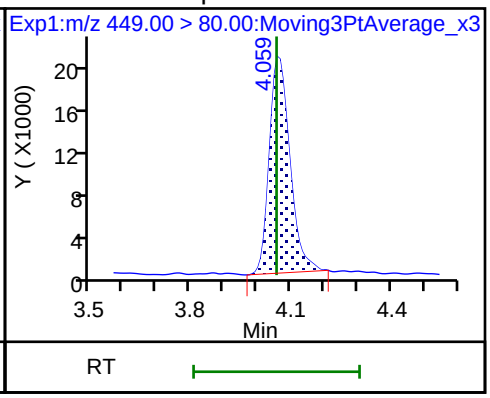


21 6:2 FTS



22 Perfluoroheptanesulfonic acid



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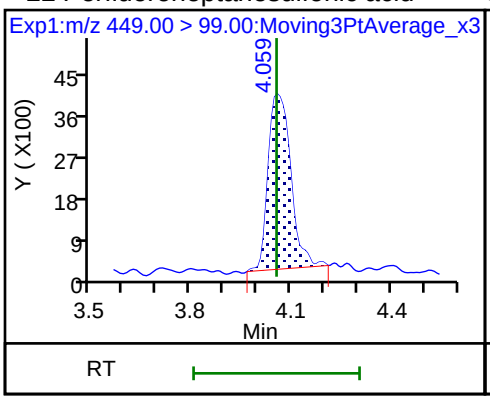
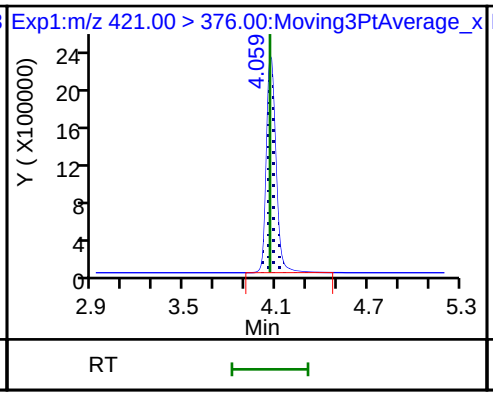


$ 23 13C8 PFOA



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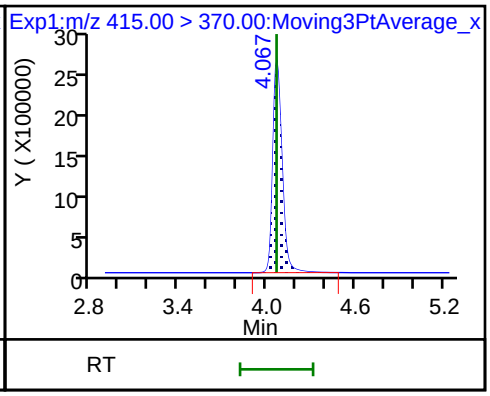

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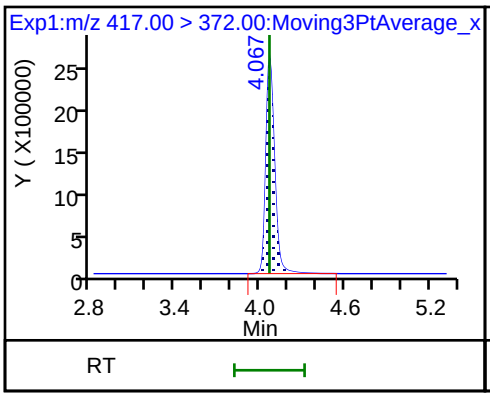
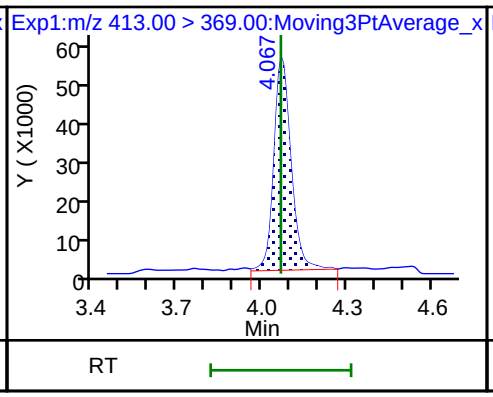
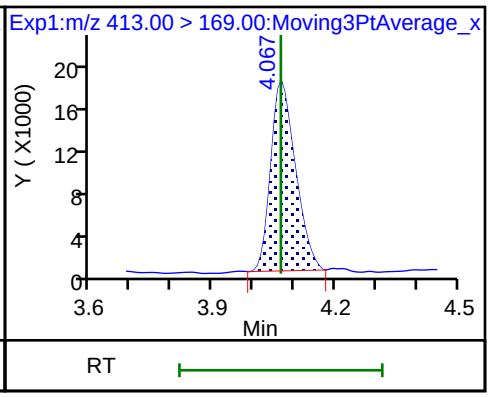


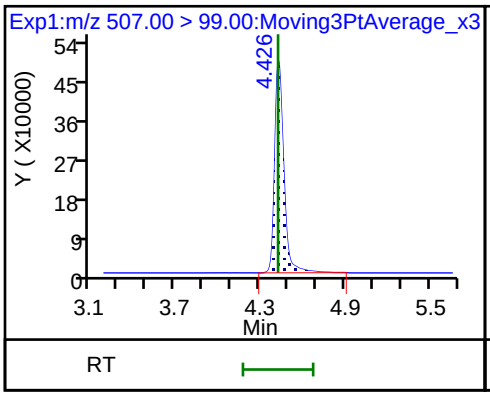
26 Perfluorooctanoic acid



26 Perfluorooctanoic acid



$ 27 13C8 PFOS



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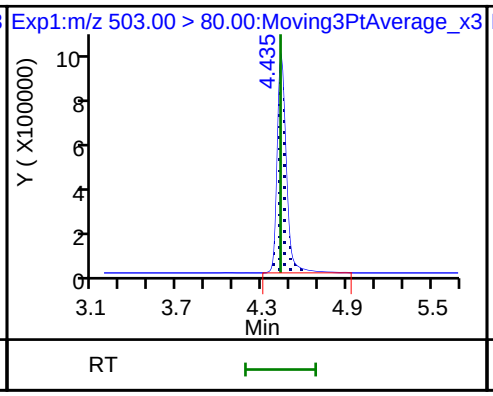
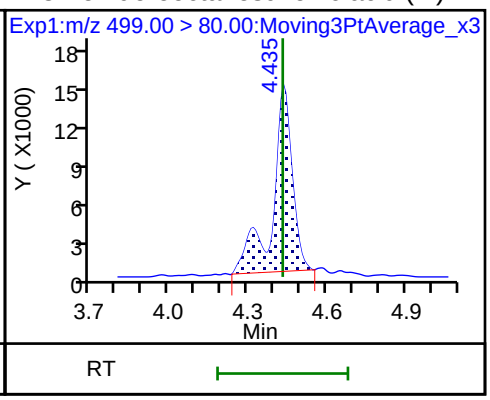
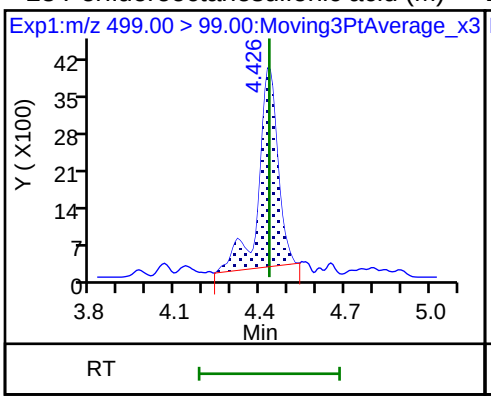


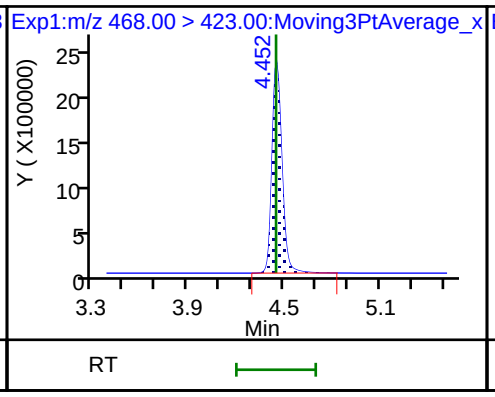
28 Perfluorooctanesulfonic acid (M)



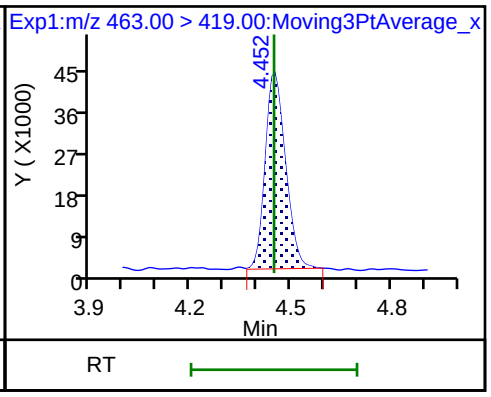
28 Perfluorooctanesulfonic acid (M)



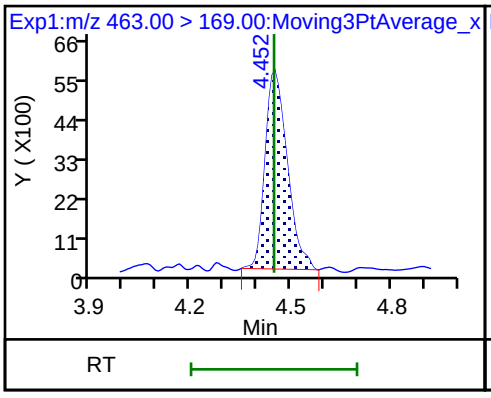
D 31 13C5 PFNA



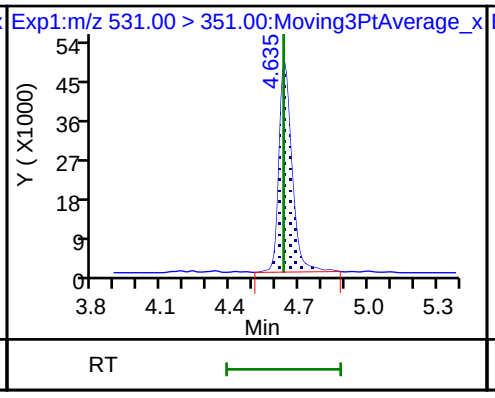
30 Perfluorononanoic acid



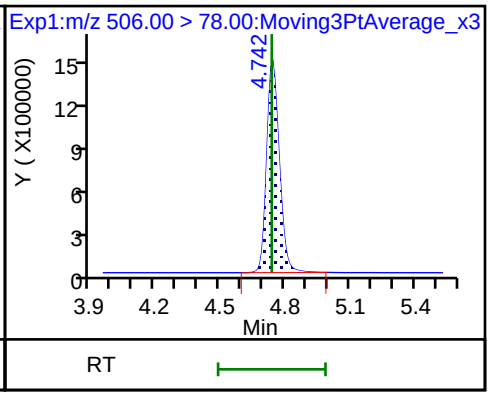
30 Perfluorononanoic acid



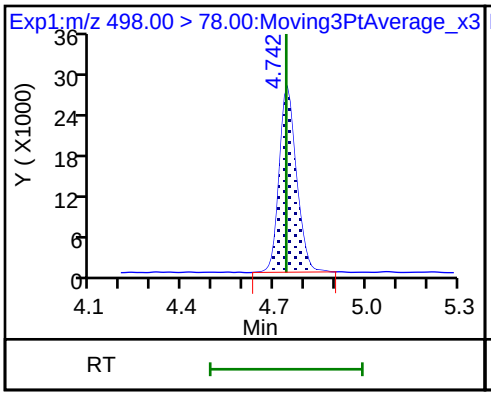
32 9ClFOS



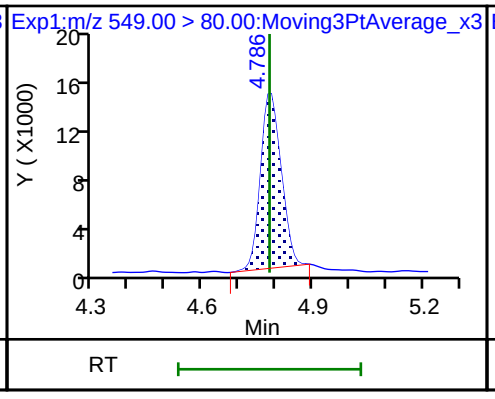
D 34 13C8 FOSA



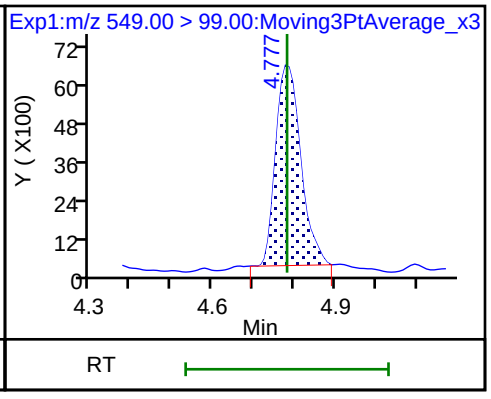
33 Perfluorooctanesulfonamide



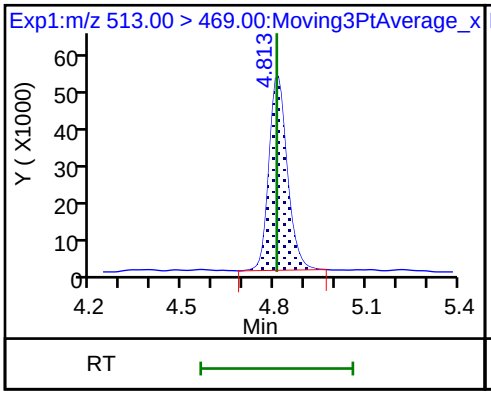
35 Perfluorononanesulfonic acid



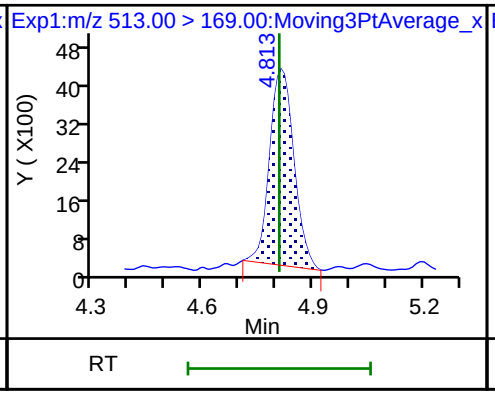
35 Perfluorononanesulfonic acid



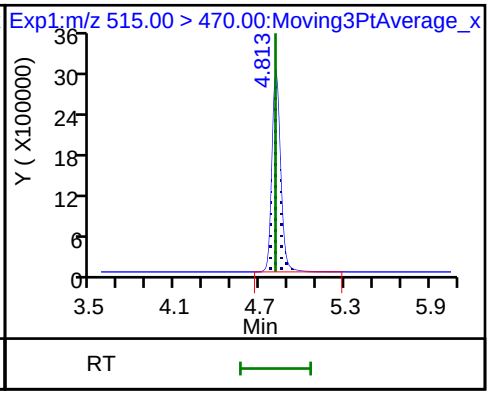
36 Perfluorodecanoic acid



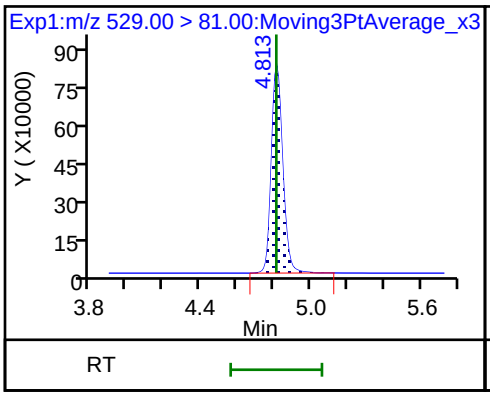
36 Perfluorodecanoic acid



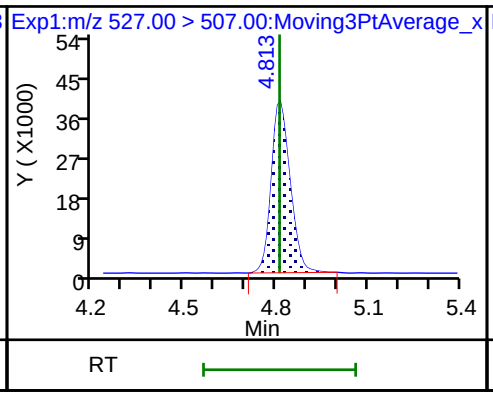
D 37 13C2 PFDA



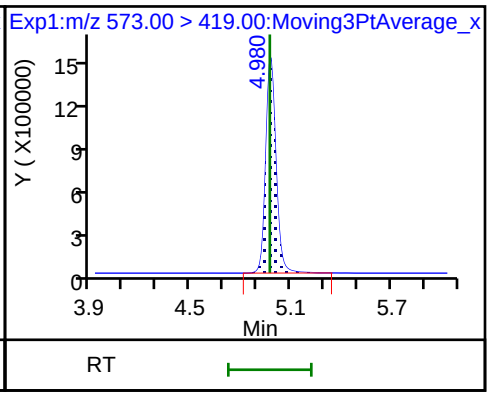
D 38 M2-8:2 FTS



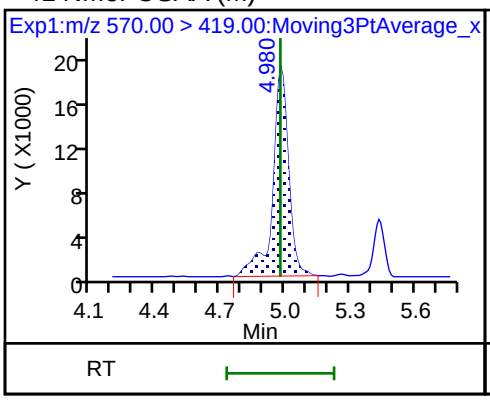
39 8:2 FTS



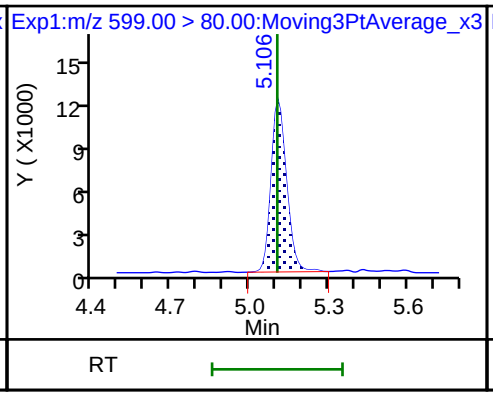
D 40 d3-NMeFOSAA



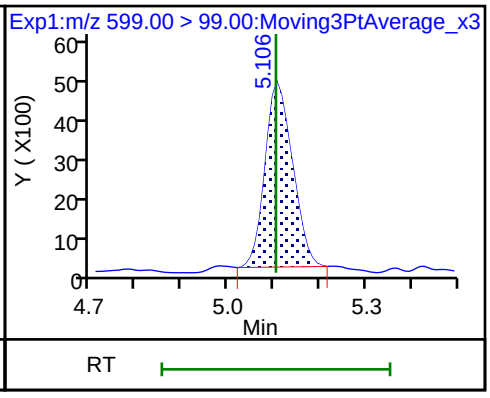
41 NMeFOSAA (M)



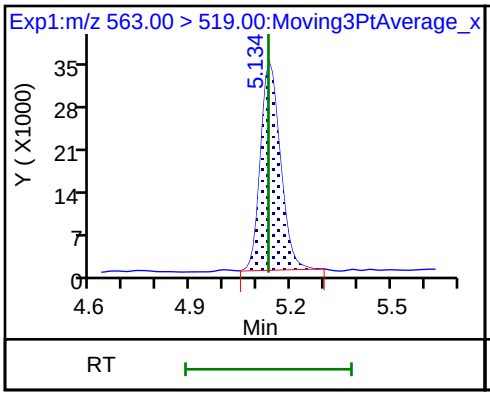
42 Perfluorodecanesulfonic acid



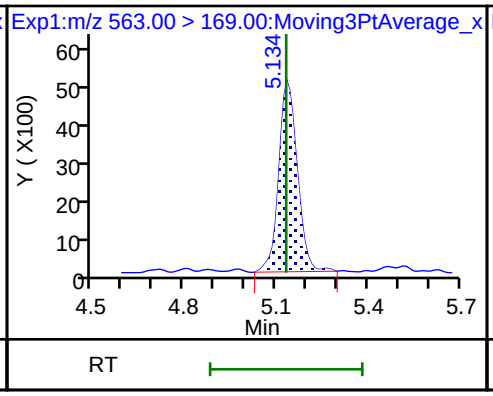
42 Perfluorodecanesulfonic acid



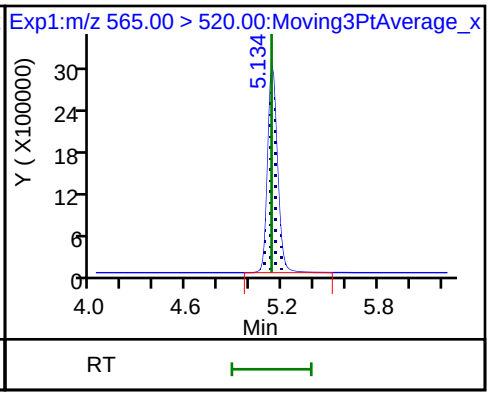
45 Perfluoroundecanoic acid



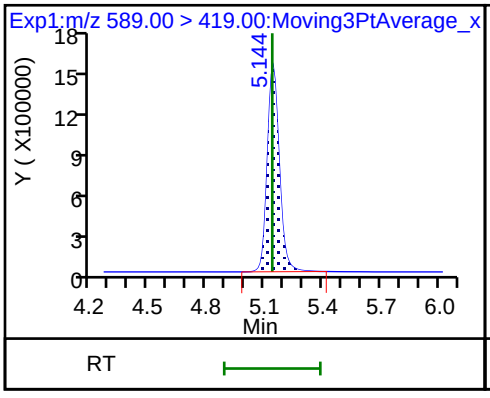
45 Perfluoroundecanoic acid



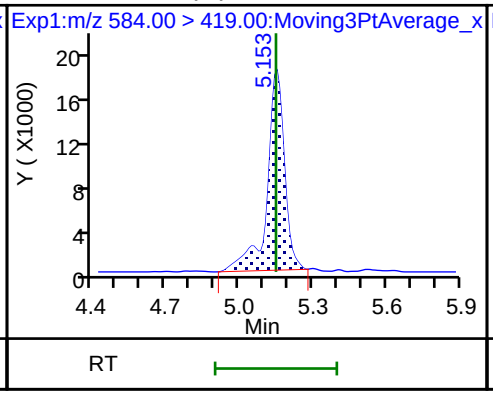
D 44 13C2 PFUnA



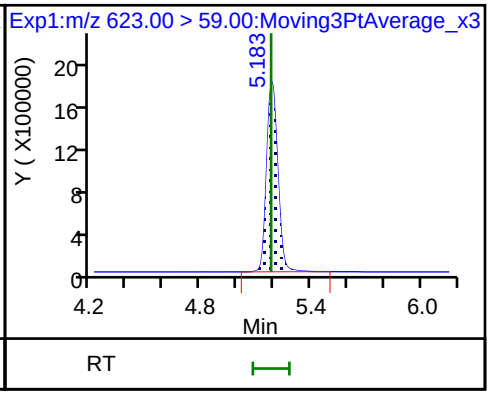
D 46 d5-NEtFOSAA



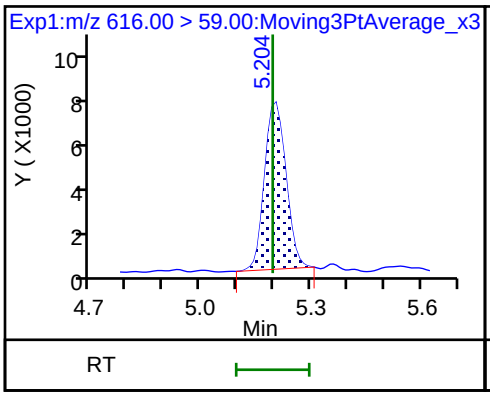
48 NEtFOSA (M)



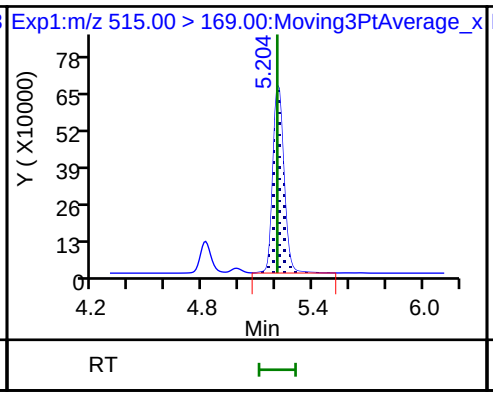
D 43 d7-N-MeFOSE-M



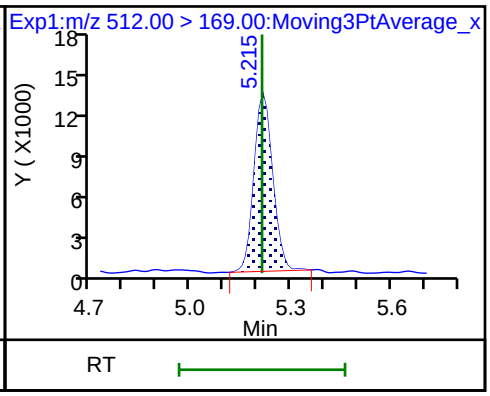
47 N-MeFOSE-M



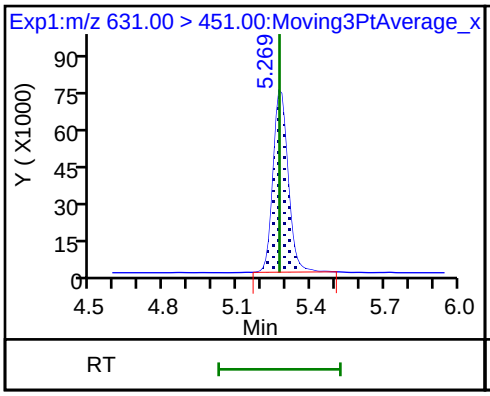
D 49 d-N-MeFOSA-M



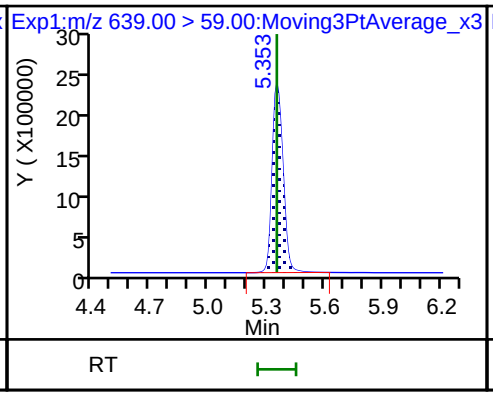
50 NMeFOSA



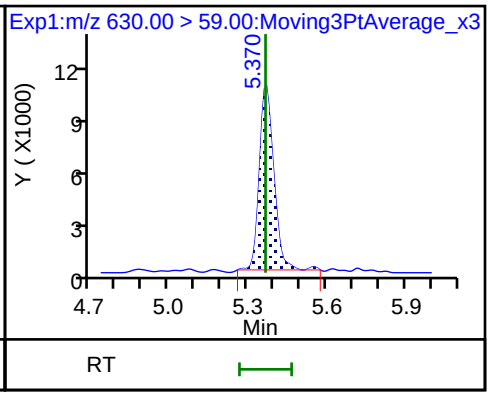
51 11ClFOS



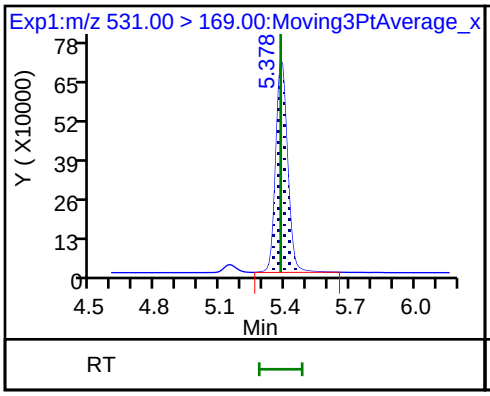
D 52 d9-N-EtFOSE-M



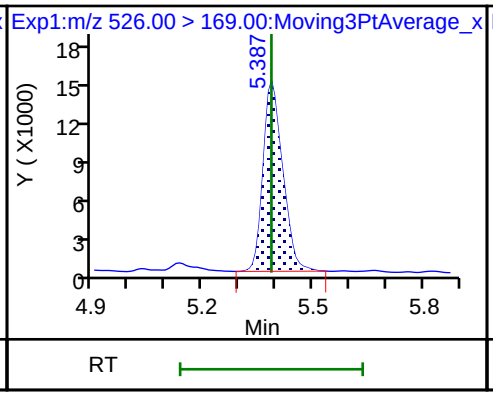
53 N-EtFOSE-M



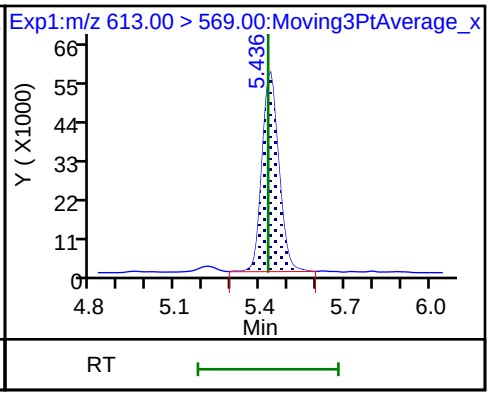
D 54 d-N-EtFOSA-M



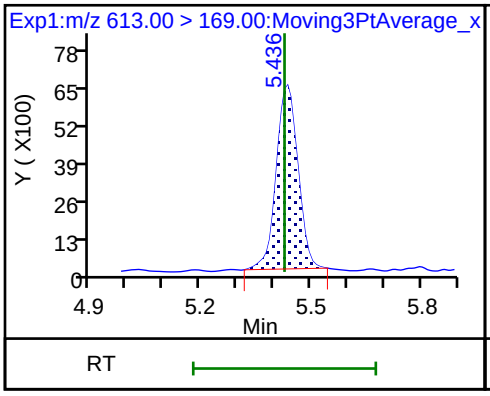
55 N-EtFOSA-M



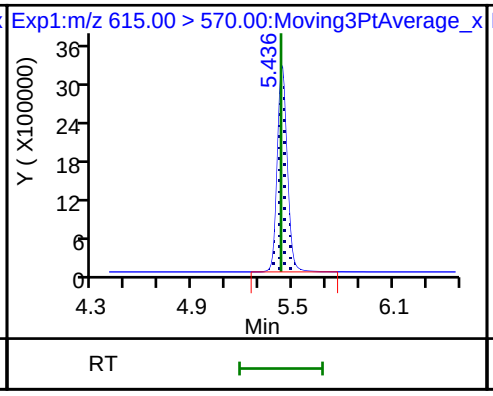
57 Perfluorododecanoic acid



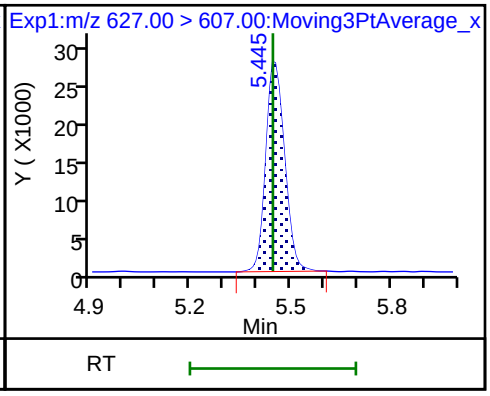
57 Perfluorododecanoic acid



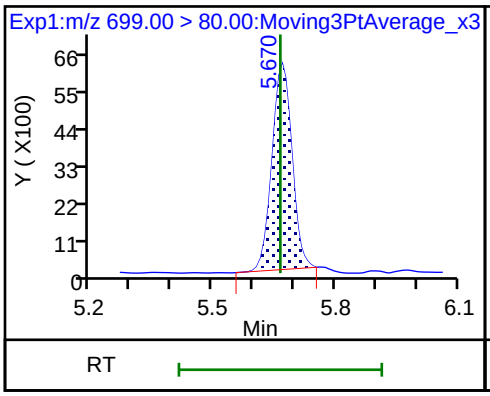
D 56 13C2 PFDoA



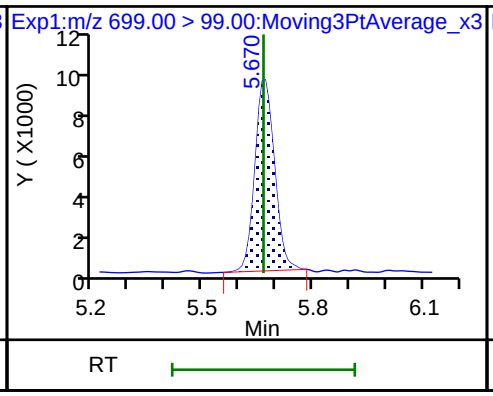
58 10:2 FTS



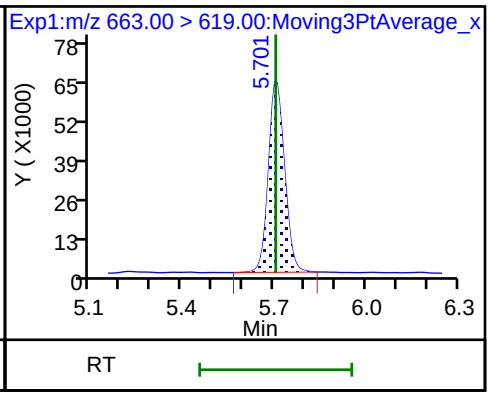
59 PFDoS



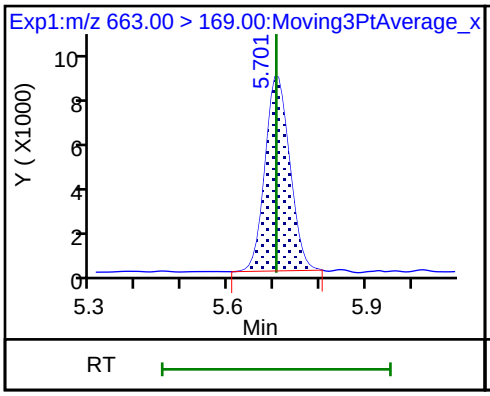
59 PFDoS



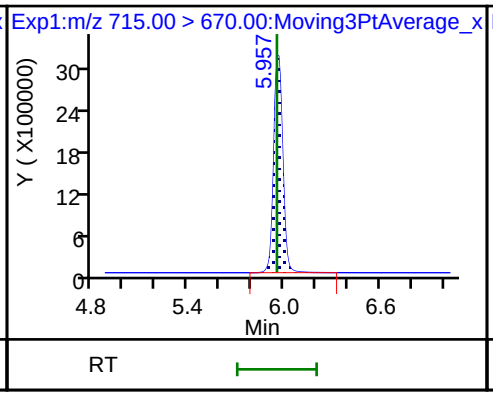
60 Perfluorotridecanoic acid



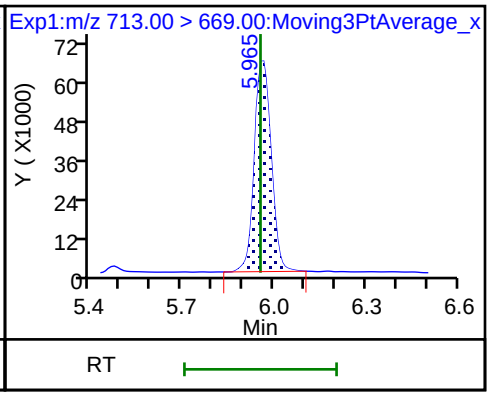
60 Perfluorotridecanoic acid



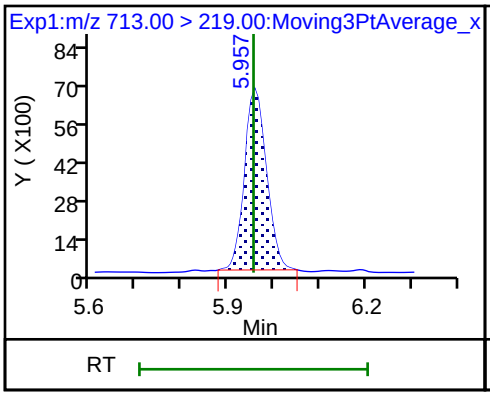
D 61 13C2 PFTeDA



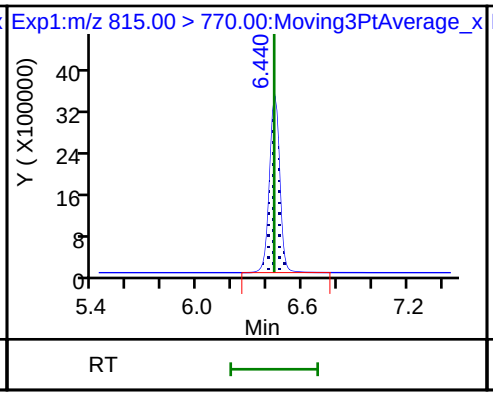
62 Perfluorotetradecanoic acid



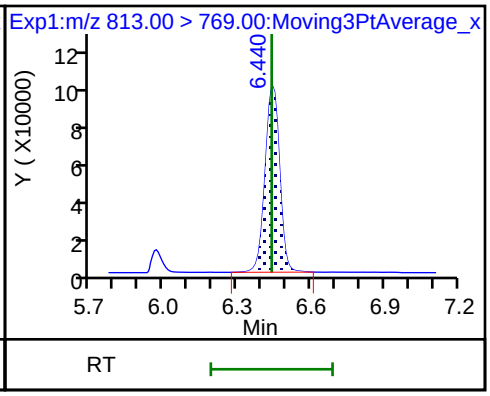
62 Perfluorotetradecanoic acid



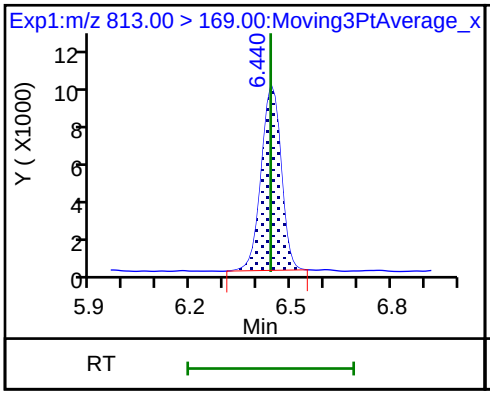
D 64 13C2 PFHxDA



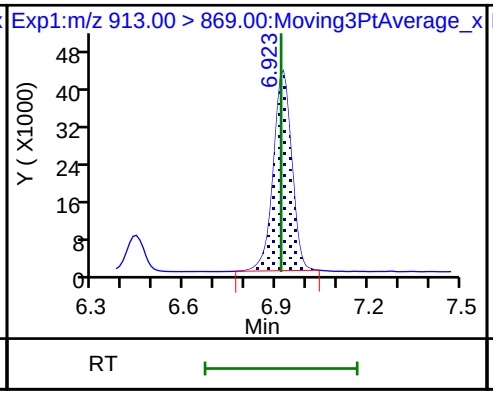
63 Perfluorohexadecanoic acid



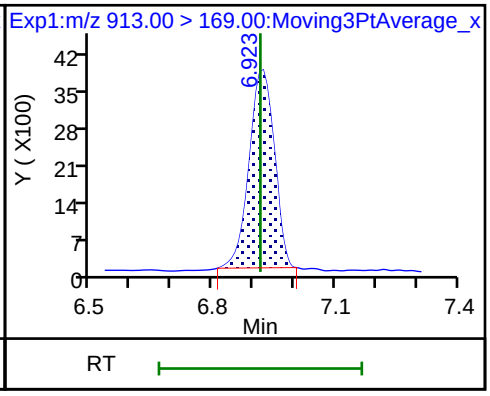
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

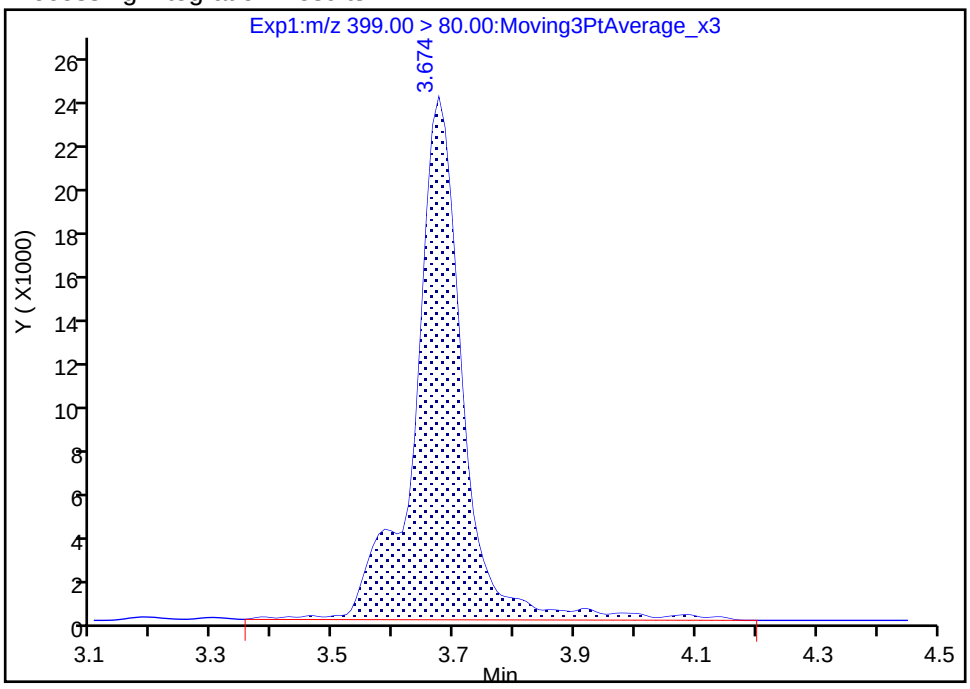
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d
Injection Date: 08-Sep-2020 18:11:11 Instrument ID: A13
Lims ID: IC STD 2
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

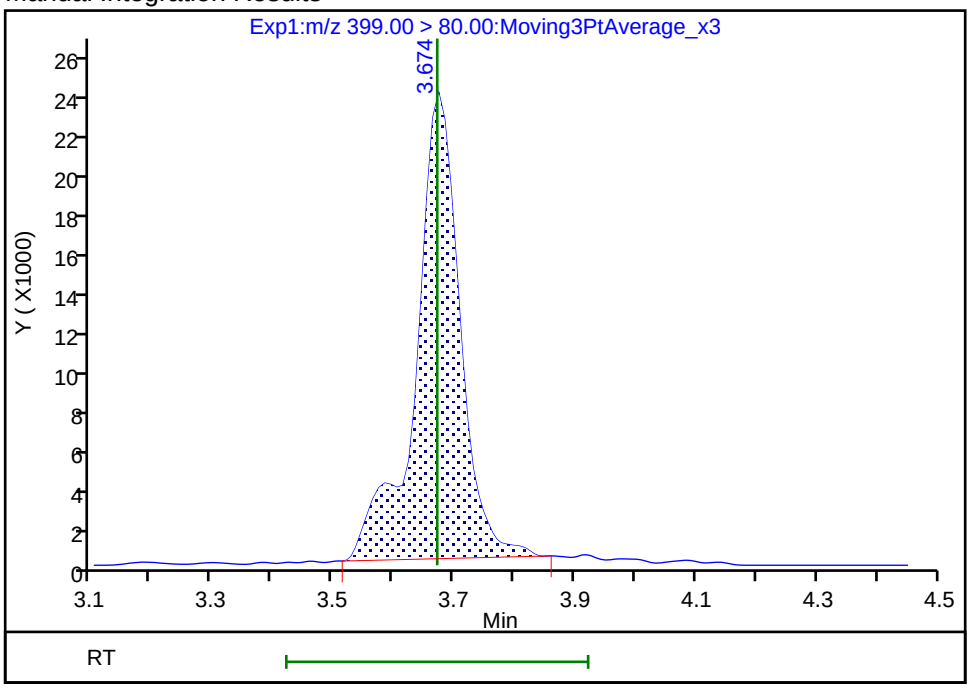
Processing Integration Results

RT: 3.67
Area: 132370
Amount: 0.048644
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 120086
Amount: 0.044764
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:27:22
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

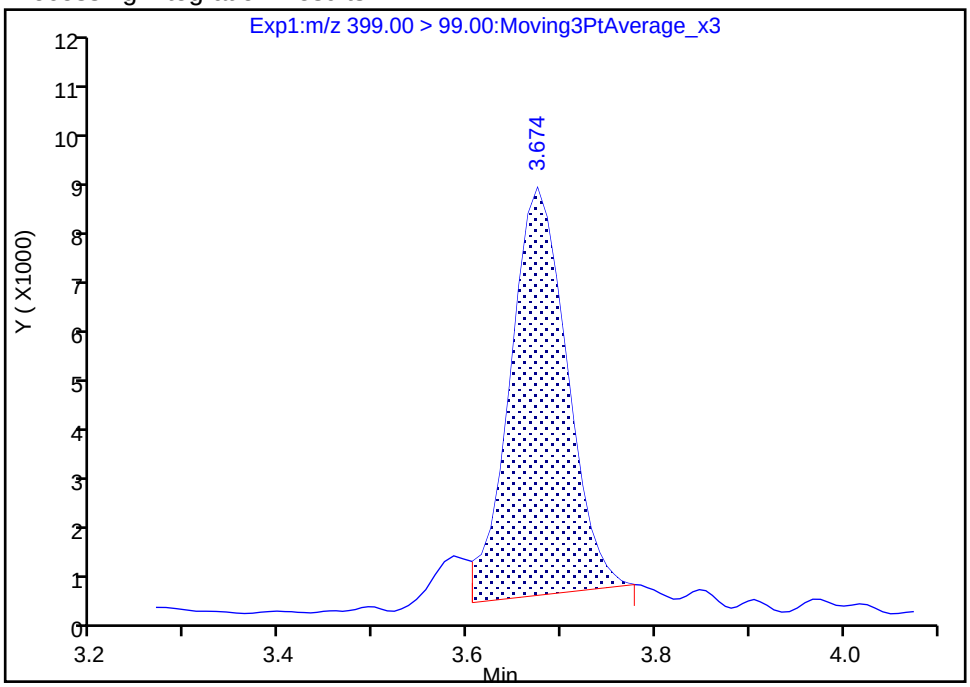
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d
Injection Date: 08-Sep-2020 18:11:11 Instrument ID: A13
Lims ID: IC STD 2
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

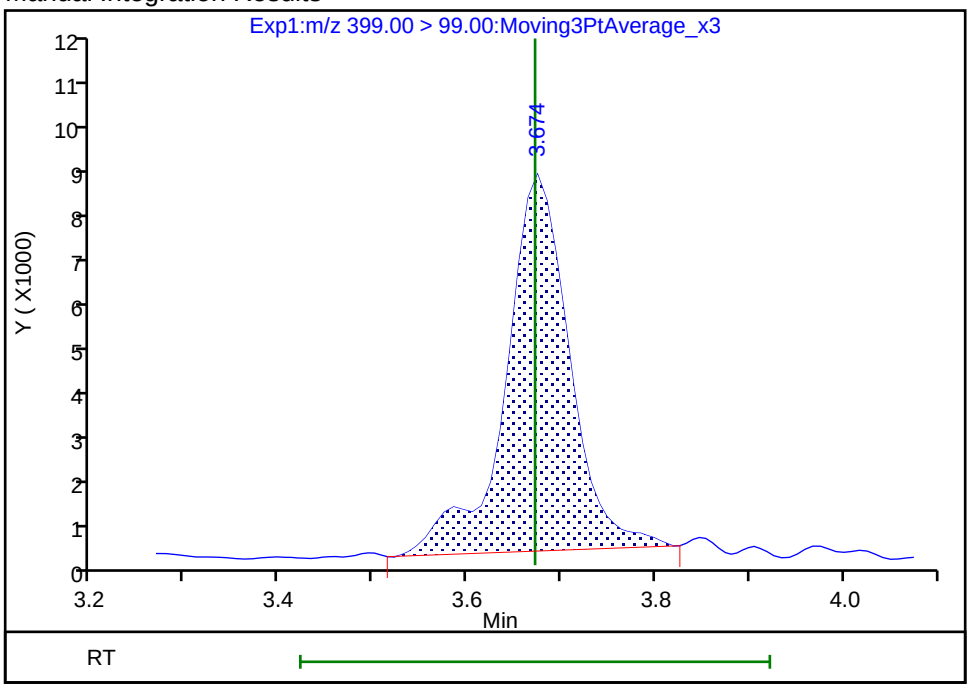
Processing Integration Results

RT: 3.67
Area: 33734
Amount: 0.048644
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 39110
Amount: 0.044764
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:27:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

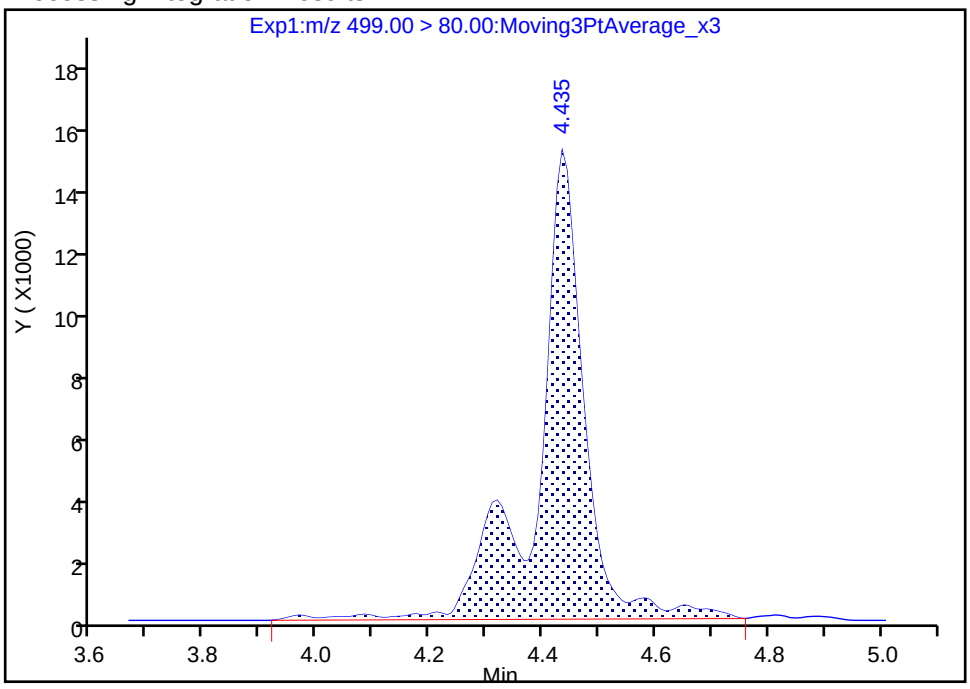
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d
Injection Date: 08-Sep-2020 18:11:11 Instrument ID: A13
Lims ID: IC STD 2
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

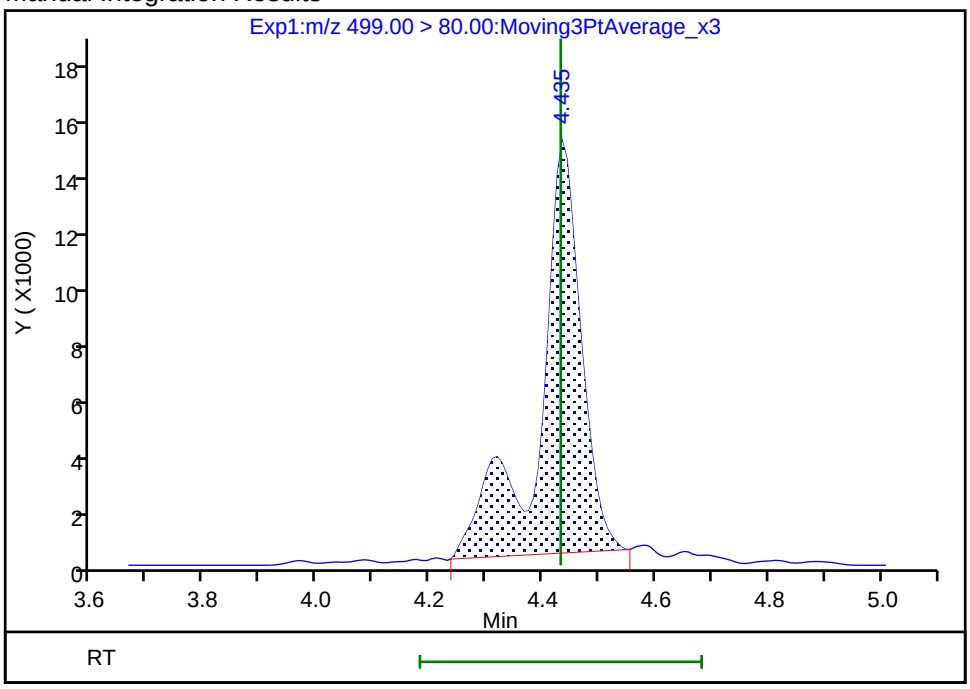
Processing Integration Results

RT: 4.43
Area: 86681
Amount: 0.046882
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 73805
Amount: 0.040793
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:28:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

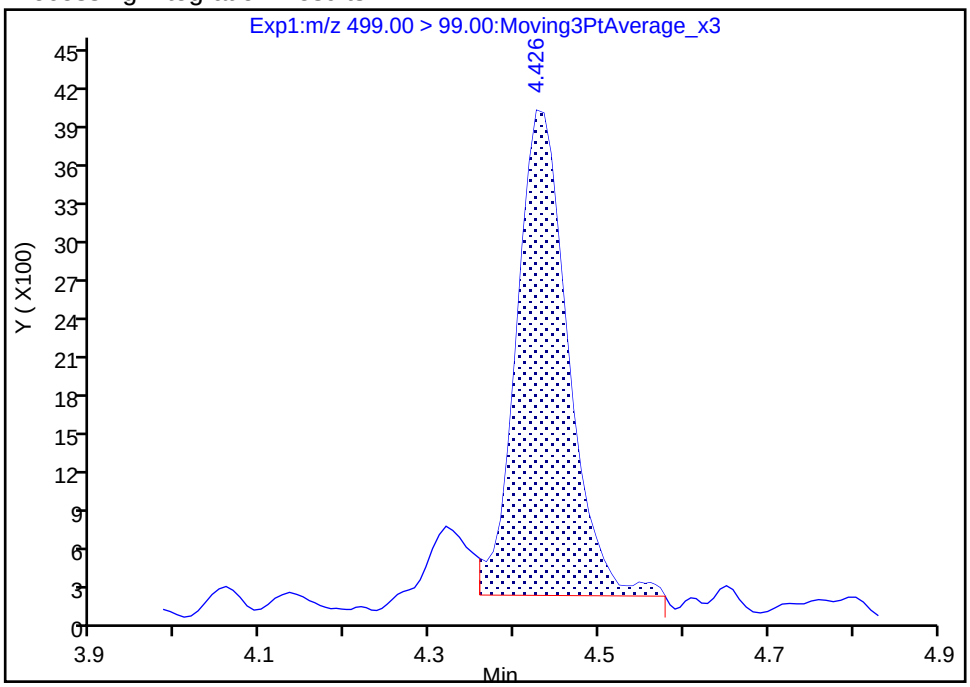
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d
Injection Date: 08-Sep-2020 18:11:11 Instrument ID: A13
Lims ID: IC STD 2
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

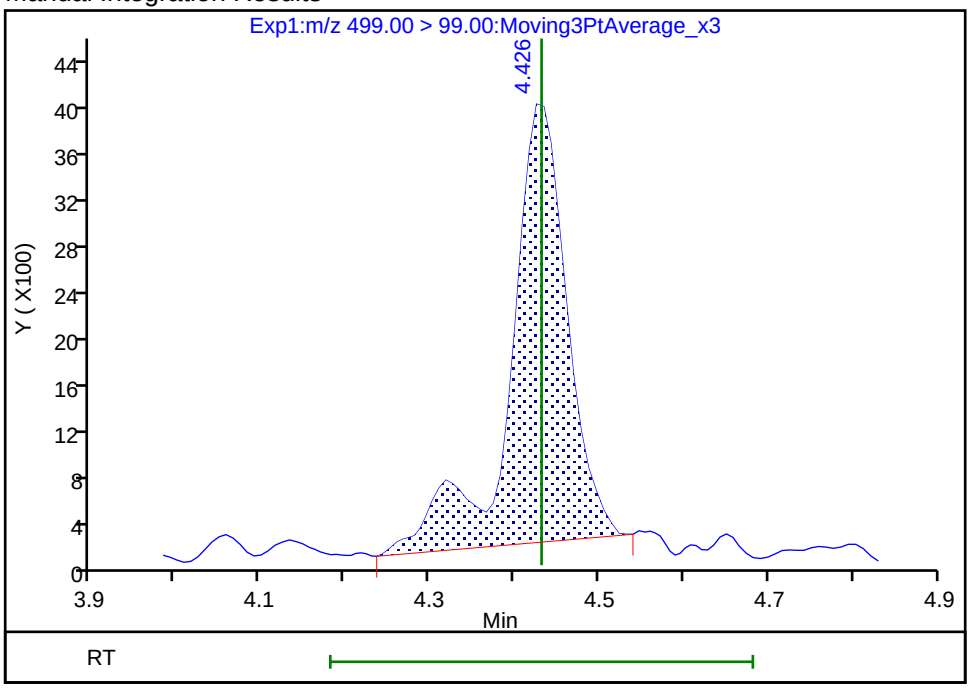
Processing Integration Results

RT: 4.43
Area: 16068
Amount: 0.046882
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 17915
Amount: 0.040793
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:28:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

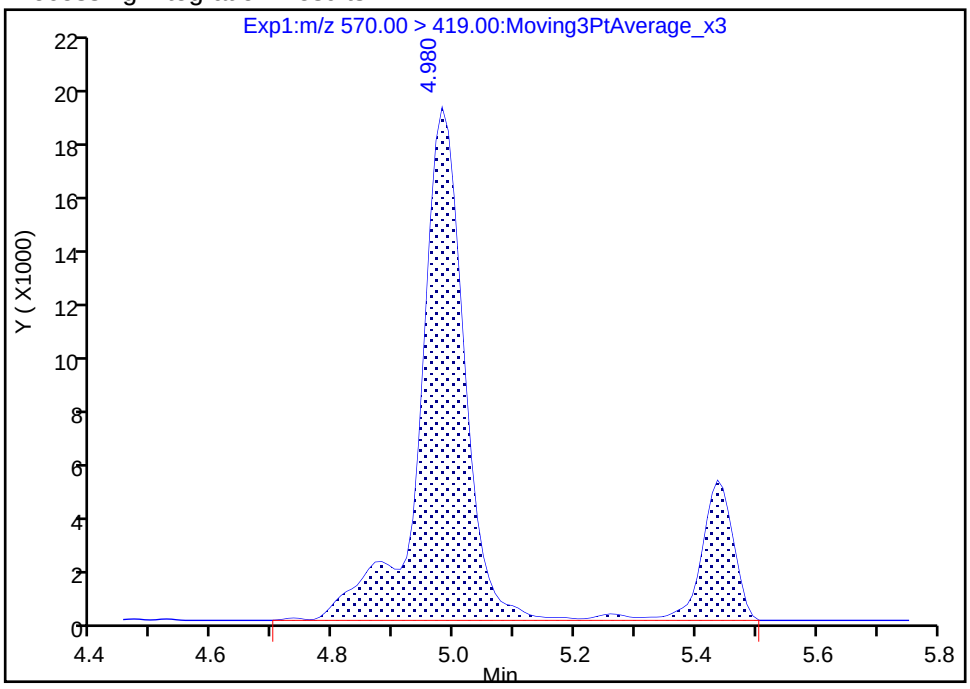
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d
Injection Date: 08-Sep-2020 18:11:11 Instrument ID: A13
Lims ID: IC STD 2
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

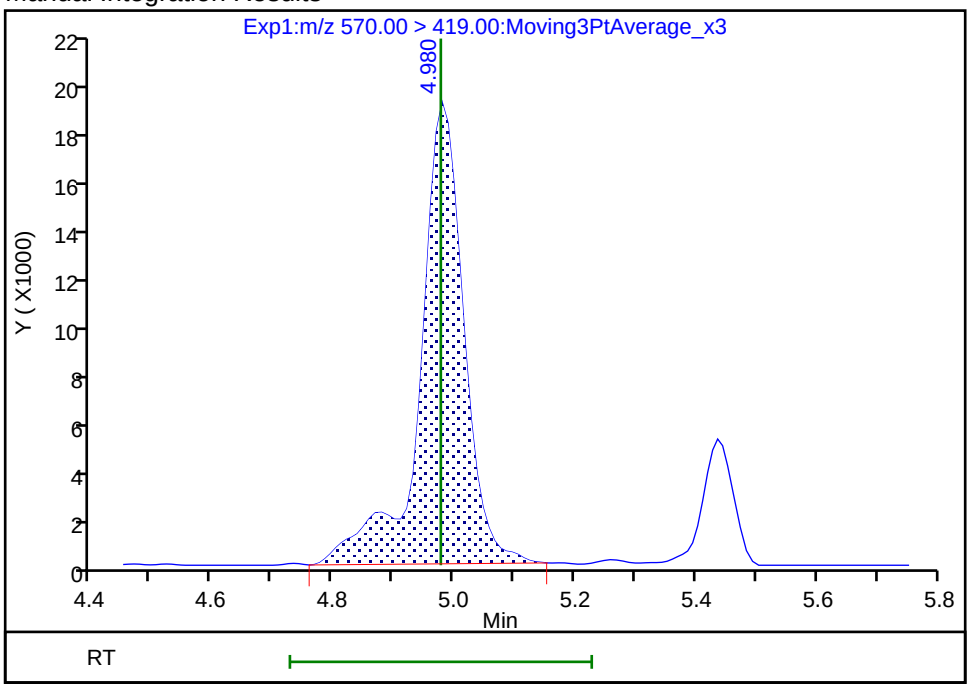
Processing Integration Results

RT: 4.98
Area: 116899
Amount: 0.055192
Amount Units: ng/ml



Manual Integration Results

RT: 4.98
Area: 95954
Amount: 0.046621
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:28:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

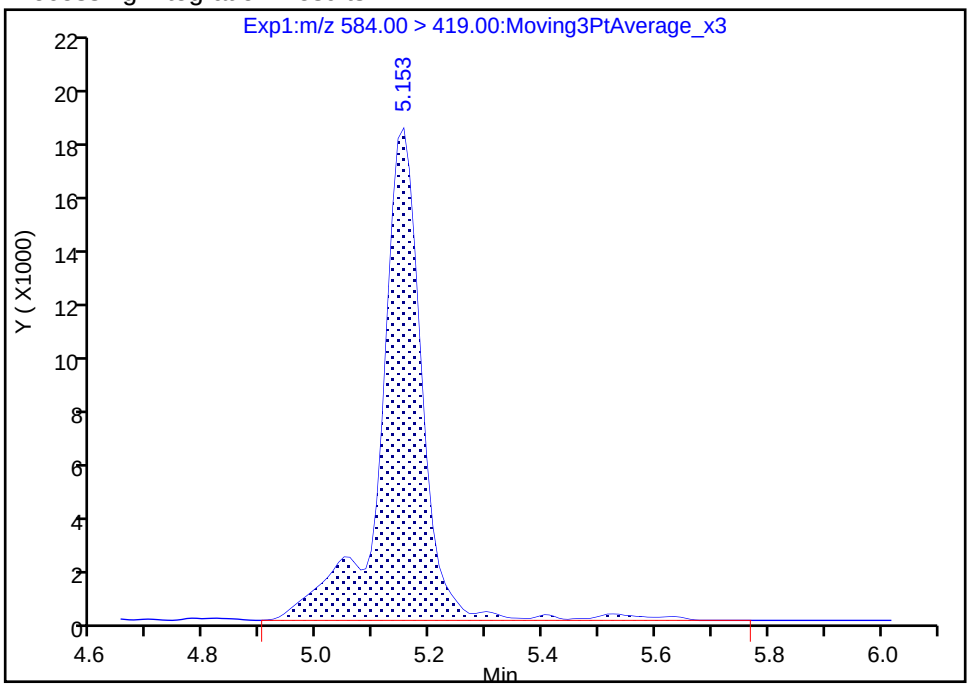
Data File:	\\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_005.d				
Injection Date:	08-Sep-2020 18:11:11	Instrument ID:	A13		
Lims ID:	IC STD 2				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

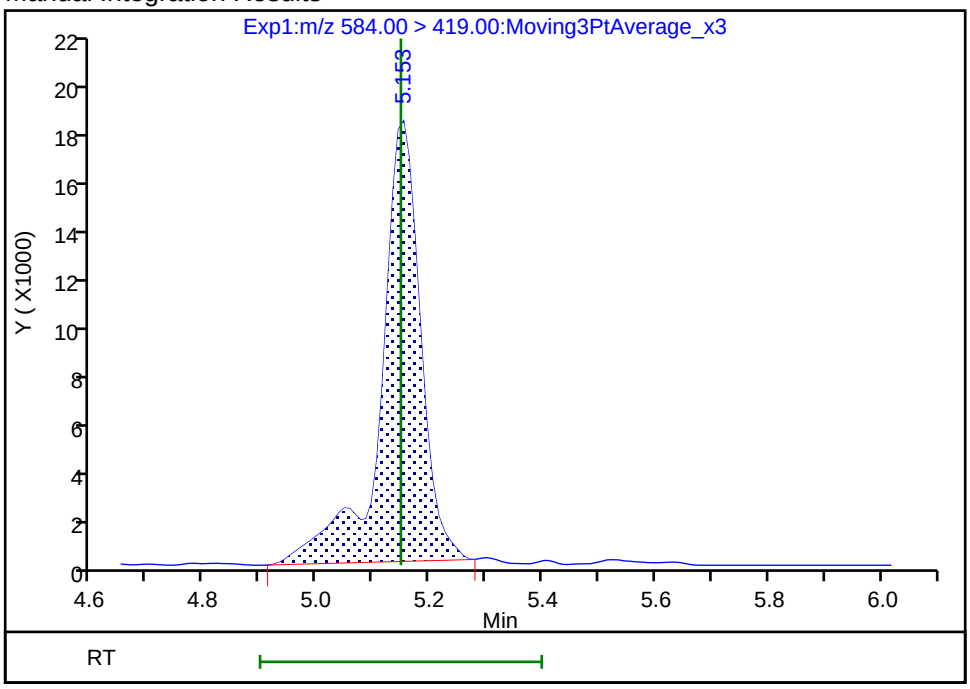
Processing Integration Results

RT: 5.15
Area: 93291
Amount: 0.046147
Amount Units: ng/ml



Manual Integration Results

RT: 5.15
Area: 87576
Amount: 0.043672
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:29:20

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_006.d
Lims ID: IC STD 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Sep-2020 18:20:37 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 3 (19)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:21:58 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 08:55:10
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.477	-0.002	0.608	9492767	2.47		98.6	26062	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.482	2.480	0.002	1.003	709495	0.2514		101	242	
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.873	0.005	0.708	7546021	2.51		101	22825	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.875	0.003	1.000	720372	0.2322		92.9	129	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.716	8529189	2.26		97.3	21044	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	790299	0.2204	Target=2.18	99.7	808	
298.90 > 99.00	2.913	2.913	0.0	1.000	346519		2.28(1.09-3.26)	99.7	149	
7 4:2 FTS										
327.00 > 307.00	3.225	3.221	0.004	1.000	669502	0.2160		92.5	813	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.225	3.222	0.003	0.793	2230896	2.42		103	1466	
D 9 13C2 PFHxA										
315.00 > 270.00	3.268	3.264	0.004	0.804	9339168	2.52		101	36466	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.265	0.003	1.000	807254	0.2325	Target=11.68	93.0	134	
313.00 > 119.00	3.268	3.265	0.003	1.000	70103		11.52(5.84-17.52)	93.0	28.6	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	642082	0.2217	Target=2.56	94.5	266	
349.00 > 99.00	3.279	3.279	0.0	1.126	249136		2.58(1.28-3.84)	94.5	185	
12 HPFO-DA										
285.00 > 169.00	3.388	3.386	0.002	1.000	190661	0.2471		98.8	560	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.386	0.002	0.833	6489896	2.44		97.7	5062	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.675	3.670	0.005	1.000	893875	0.2487	Target=3.85	99.5	126	
363.00 > 169.00	3.675	3.670	0.005	1.000	221395		4.04(1.92-5.77)	99.5	127	
D 15 13C4 PFHpA										
367.00 > 322.00	3.675	3.668	0.007	0.904	8890952	2.44		97.4	5361	
D 17 18O2 PFHxS										
403.00 > 84.00	3.675	3.672	0.003	0.904	5771004	2.34		98.8	47510	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.675	3.672	0.003	1.000	605478	0.2231	Target=3.25	98.1	116253	
399.00 > 99.00	3.675	3.672	0.003	1.000	181306		3.34(1.62-4.87)	98.1	105	M
19 DONA										
377.00 > 251.00	3.722	3.719	0.003	0.839	2142670	0.2386	Target=2.76	101	2508	
377.00 > 85.00	3.722	3.719	0.003	0.839	706836		3.03(1.38-4.14)	101	703	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.043	-0.001	0.994	2624141	2.47		104	4204	
21 6:2 FTS										
427.00 > 407.00	4.042	4.043	-0.001	1.000	592730	0.2229		94.0	678	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.059	4.056	0.003	0.915	442411	0.2222	Target=4.29	93.4	378	
449.00 > 99.00	4.059	4.056	0.003	0.915	110876		3.99(2.15-6.44)	93.4	171	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.058	0.001	0.998	9724361	2.41		98.4	9799	
* 25 13C2 PFOA										
415.00 > 370.00	4.067	4.065	0.002		11327488	2.50			4040	
D 24 13C4 PFOA										
417.00 > 372.00	4.067	4.065	0.002	1.000	11141953	2.50		99.9	7325	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.066	0.001	1.000	1085567	0.2381	Target=2.95	95.2	222	
413.00 > 169.00	4.067	4.066	0.001	1.000	368954		2.94(1.47-4.42)	95.2	377	
$ 27 13C8 PFOS										
507.00 > 99.00	4.426	4.426	0.0	1.088	2271472	2.42		101	4386	
D 29 13C4 PFOS										
503.00 > 80.00	4.435	4.429	0.006	1.090	4177857	2.37		99.2	2565	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.435	4.432	0.003	1.000	415124	0.2287	Target=4.28	98.6	476	
499.00 > 99.00	4.435	4.432	0.003	1.000	91049		4.56(2.14-6.41)	98.6	122	M
D 31 13C5 PFNA										
468.00 > 423.00	4.452	4.448	0.004	1.095	10246517	2.49		99.4	35851	
30 Perfluorononanoic acid										
463.00 > 419.00	4.452	4.449	0.003	1.000	956806	0.2459	Target=8.00	98.4	238	
463.00 > 169.00	4.452	4.449	0.003	1.000	123834		7.73(4.00-12.01)	98.4	267	
32 9ClFOS										
531.00 > 351.00	4.636	4.632	0.004	1.045	976991	0.2234		95.9	813	
D 34 13C8 FOSA										
506.00 > 78.00	4.743	4.738	0.005	1.166	6237740	2.47		98.6	6501	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.743	4.739	0.004	1.000	564719	0.2412		96.5	1793	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.786	4.781	0.005	1.079	319494	0.2359	Target=2.15	98.3	707	
549.00 > 99.00	4.786	4.781	0.005	1.079	145666		2.19(1.08-3.23)	98.3	320	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.813	4.808	0.005	1.000	1120870	0.2509	Target=10.44	100	569	
513.00 > 169.00	4.813	4.808	0.005	1.000	100223		11.18(5.22-15.65)	100	206	
D 37 13C2 PFDA										
515.00 > 470.00	4.813	4.808	0.005	1.183	12458933	2.49		99.8	10087	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.810	0.003	1.183	3470562	2.47		103	3012	
39 8:2 FTS										
527.00 > 507.00	4.813	4.810	0.003	1.000	831326	0.2321		96.9	3537	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.980	4.972	0.008	1.225	6542549	2.54		102	3166	
41 NMeFOSAA										
570.00 > 419.00	4.980	4.978	0.002	1.000	494318	0.2345		93.8	103	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.106	5.103	0.003	1.151	269601	0.2341	Target=2.36	97.1	535	
599.00 > 99.00	5.106	5.103	0.003	1.151	115180		2.34(1.18-3.54)	97.1	241	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.134	5.132	0.002	1.000	698590	0.2147	Target=8.67	85.9	512	
563.00 > 169.00	5.134	5.132	0.002	1.000	88117		7.93(4.34-13.01)	85.9	275	
D 44 13C2 PFUnA										
565.00 > 520.00	5.134	5.132	0.002	1.262	12295425	2.52		101	54224	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.144	5.139	0.005	1.265	6718667	2.70		108	3637	
48 NEtFOSA										
584.00 > 419.00	5.153	5.148	0.005	1.002	476100	0.2289		91.5	3510	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.183	5.182	0.001	1.274	7576494	12.0		95.7	2957	
47 N-MeFOSE-M										
616.00 > 59.00	5.204	5.195	0.009	1.004	147125	0.2280		91.2	254	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.204	5.205	-0.001	1.280	2745104	2.31		92.2	48.7	
50 NMeFOSA										
512.00 > 169.00	5.216	5.213	0.003	1.002	262426	0.2431		97.2	240	
51 11ClFOS										
631.00 > 451.00	5.280	5.271	0.009	1.191	1735311	0.2300		97.7	1616	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.354	5.352	0.002	1.316	9281452	12.5		99.9	4076	
53 N-EtFOSE-M										
630.00 > 59.00	5.371	5.366	0.005	1.003	187883	0.2444		97.8	368	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.380	5.379	0.001	1.323	2603727	2.29		91.6	257	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.388	5.386	0.002	1.002	271456	0.2454		98.2	179	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.429	5.428	0.001	1.000	1252132	0.2650	Target=9.05	106	779	
613.00 > 169.00	5.429	5.428	0.001	1.000	134931		9.28(4.52-13.57)	106	530	
D 56 13C2 PFDoA										
615.00 > 570.00	5.429	5.428	0.001	1.335	12949938	2.46		98.5	12026	
58 10:2 FTS										
627.00 > 607.00	5.446	5.445	0.001	1.132	539015	0.2279		94.6	2301	
59 PFDoS										
699.00 > 80.00	5.671	5.665	0.006	1.279	107576	0.2393	Target=0.57	98.9	490	
699.00 > 99.00	5.663	5.665	-0.002	1.277	187466		0.57(0.29-0.86)	98.9	579	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.710	5.704	0.006	1.052	1221450	0.2516	Target=7.06	101	1053	
663.00 > 169.00	5.702	5.704	-0.002	1.050	166475		7.34(3.53-10.59)	101	592	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.958	5.953	0.005	1.465	12914651	2.49		99.5	9286	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.958	5.954	0.004	1.000	1264431	0.2487	Target=11.23	99.5	928	
713.00 > 219.00	5.950	5.954	-0.004	0.999	113550		11.14(5.62-16.85)	99.5	624	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.437	-0.002	1.582	13447822	2.49		99.5	11120	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.446	6.439	0.007	1.002	1385662	0.2461	Target=9.45	98.4	306	
813.00 > 169.00	6.446	6.439	0.007	1.002	147710		9.38(4.72-14.17)	98.4	647	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.920	6.915	0.005	1.075	935248	0.2380	Target=11.13	95.2	492	
913.00 > 169.00	6.920	6.915	0.005	1.075	82869		11.29(5.56-16.69)	95.2	499	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00019 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:22:01 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_006.d

Injection Date: 08-Sep-2020 18:20:37 Instrument ID: A13

Lims ID: IC STD 3

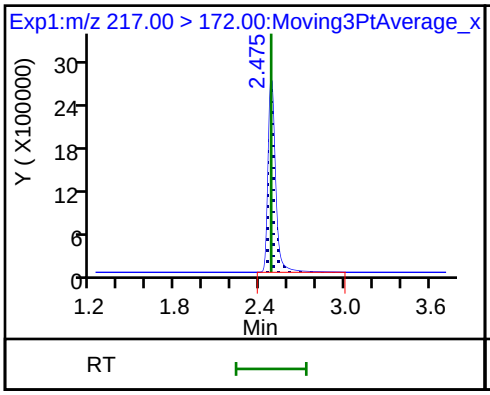
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 3 Worklist Smp#: 4

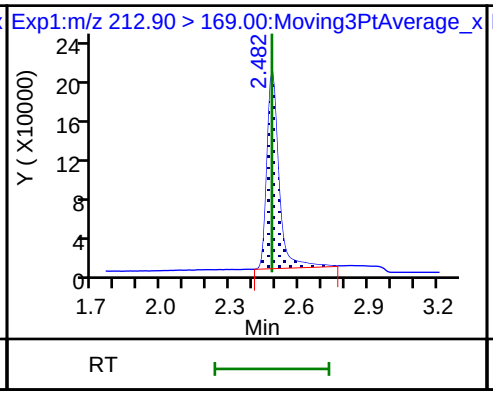
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

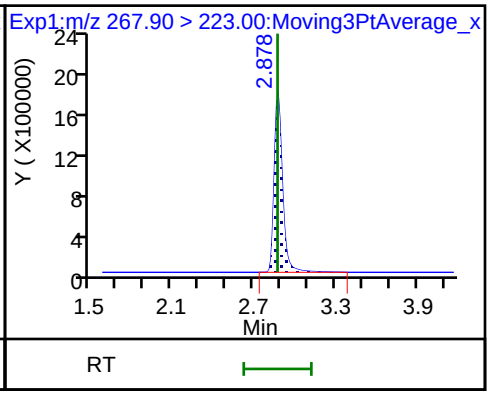
D 1 13C4 PFBA



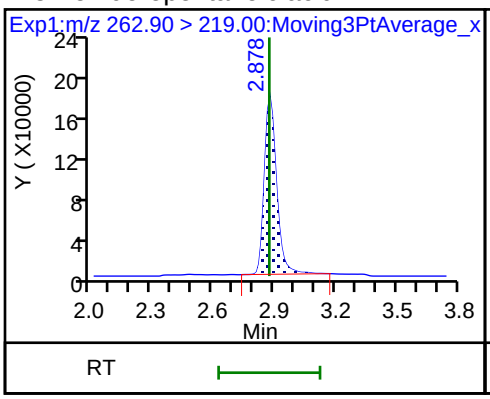
2 Perfluorobutanoic acid



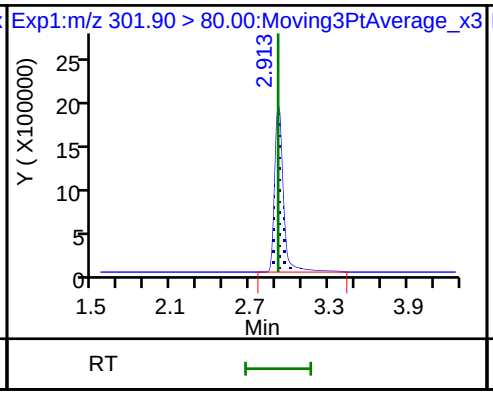
D 4 13C5 PFPeA



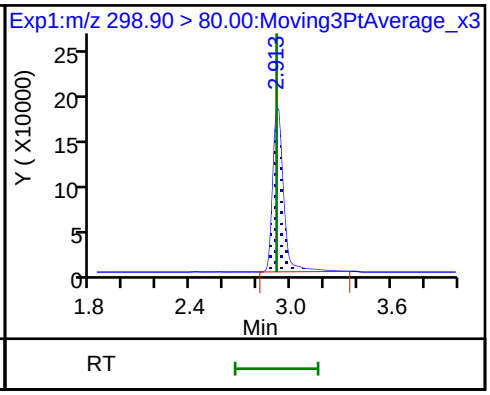
5 Perfluoropentanoic acid



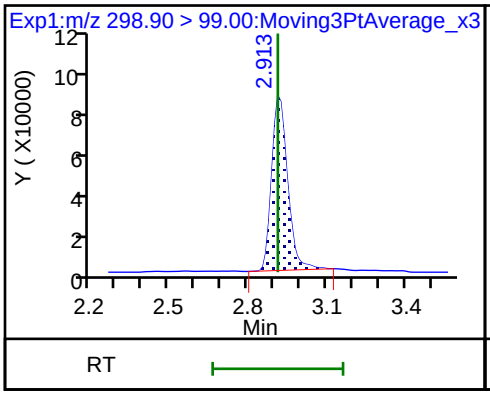
D 14 13C3 PFBS



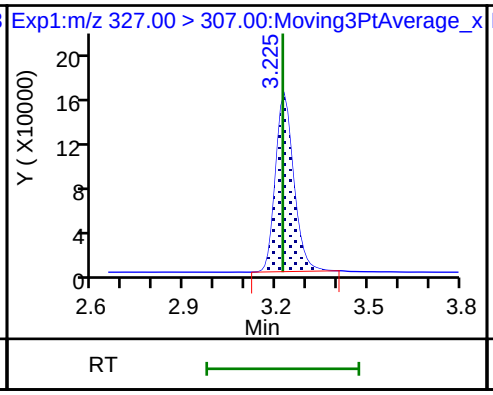
6 Perfluorobutanesulfonic acid



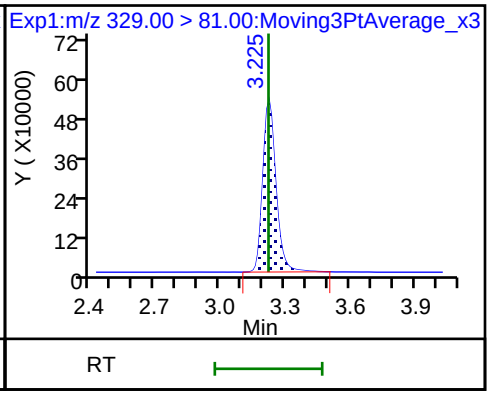
6 Perfluorobutanesulfonic acid



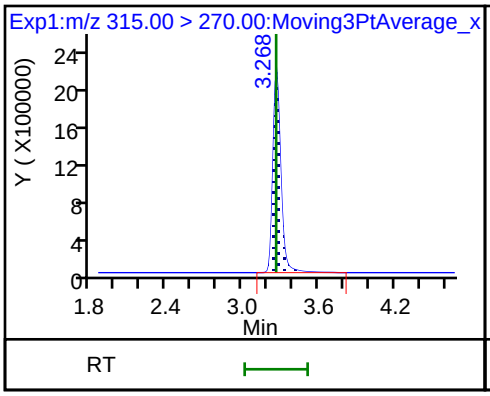
7 4:2 FTS



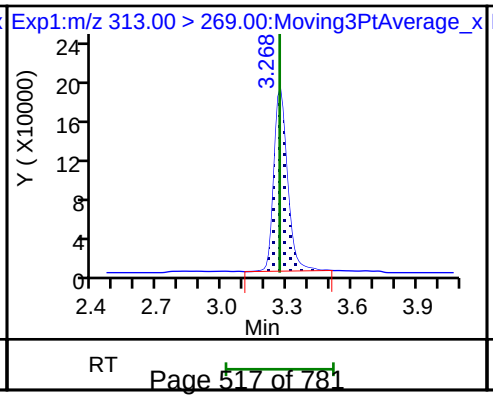
D 8 M2-4:2 FTS



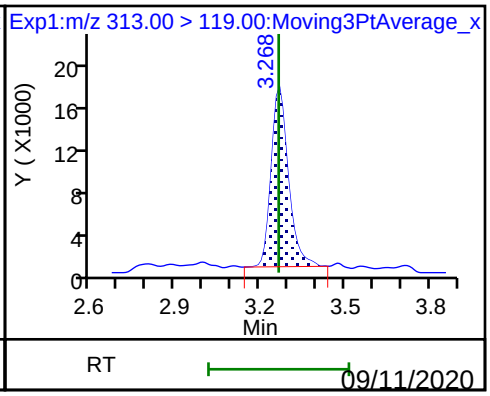
D 9 13C2 PFHxA



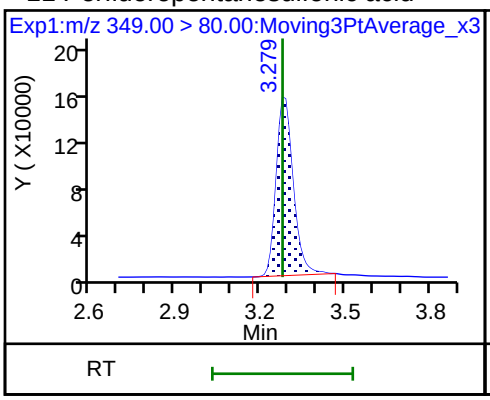
10 Perfluorohexanoic acid



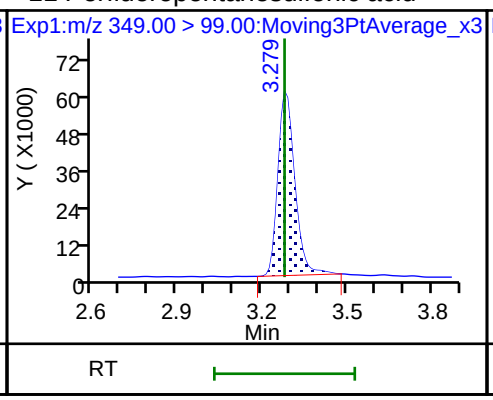
10 Perfluorohexanoic acid



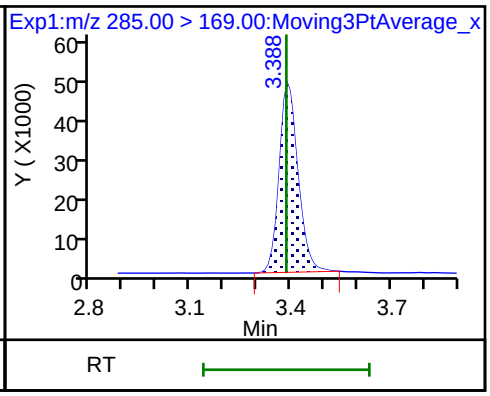
11 Perfluoropentanesulfonic acid



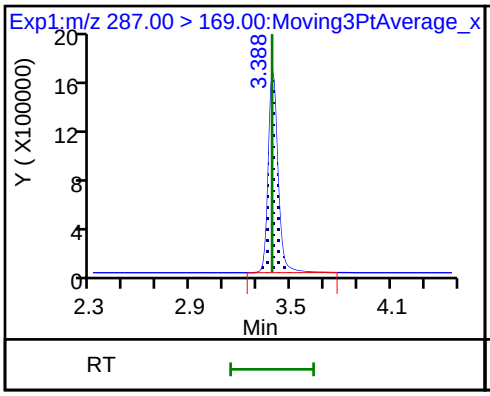
11 Perfluoropentanesulfonic acid



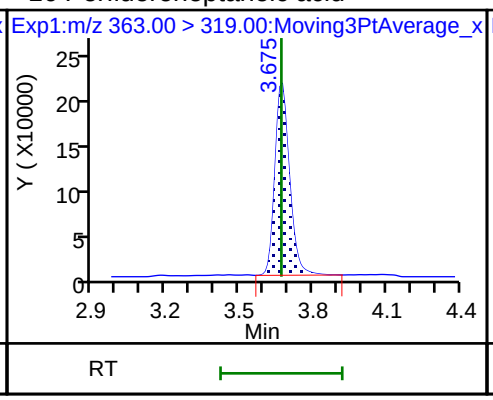
12 HPFO-DA



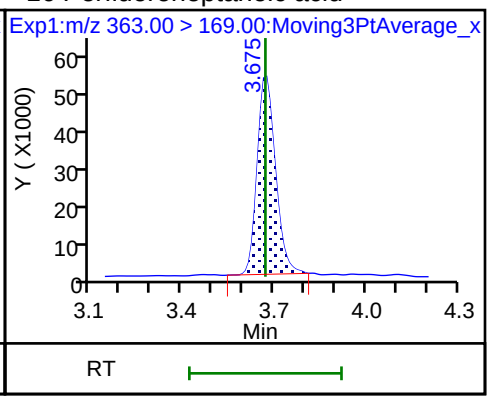
D 13 13C3 HFPO-DA



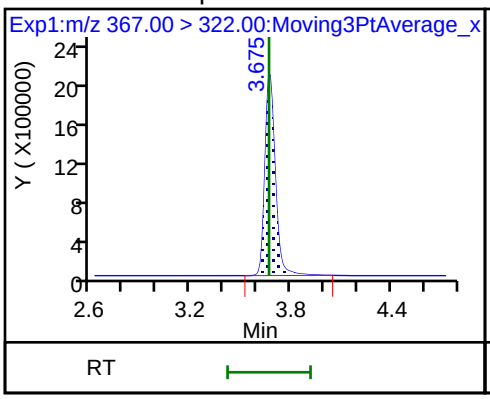
16 Perfluoroheptanoic acid



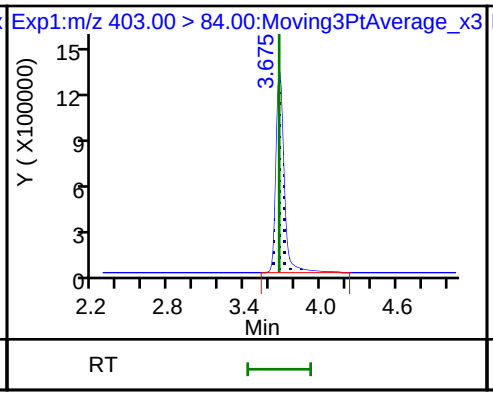
16 Perfluoroheptanoic acid



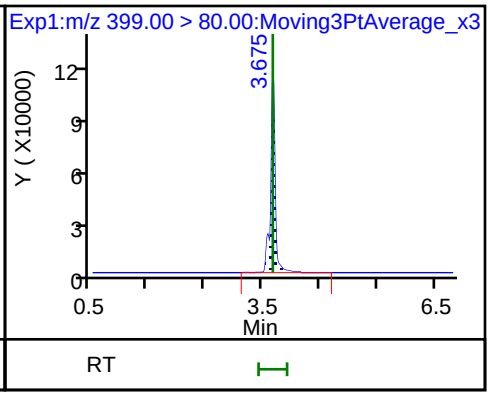
D 15 13C4 PFHpA



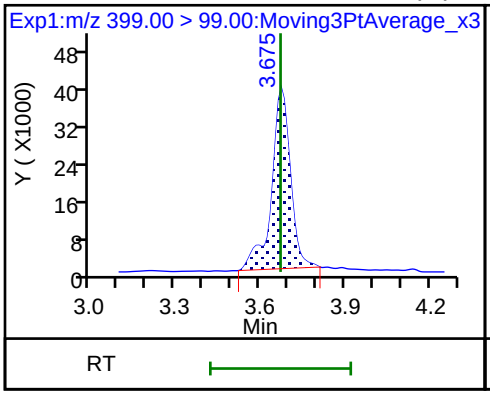
D 17 18O2 PFHxS



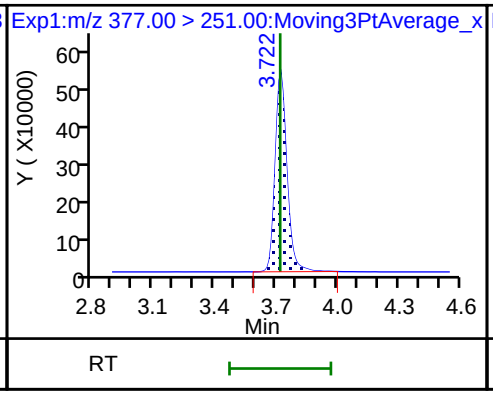
18 Perfluorohexanesulfonic acid



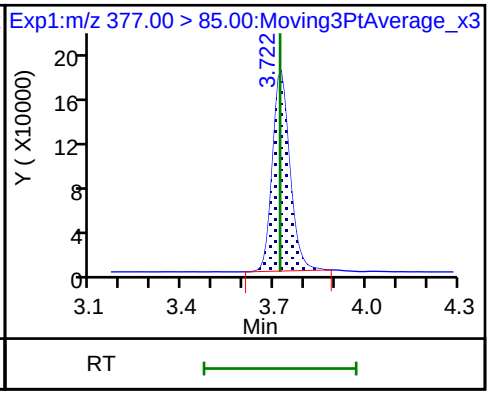
18 Perfluorohexanesulfonic acid (M)



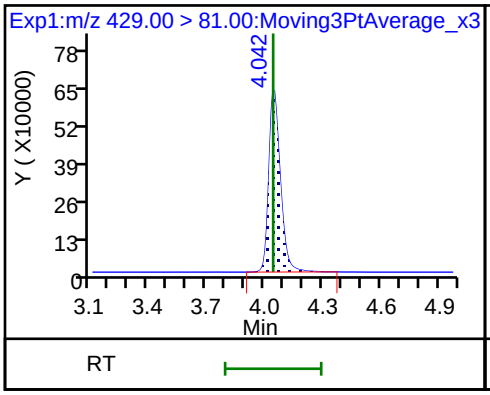
19 DONA



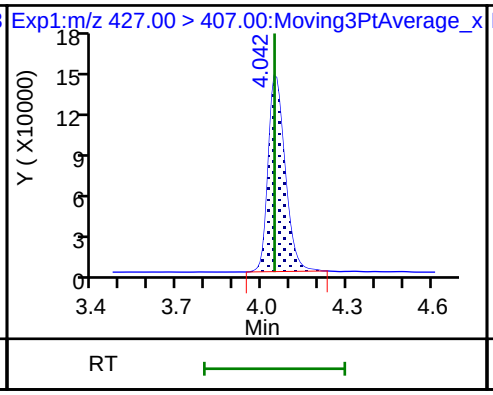
19 DONA



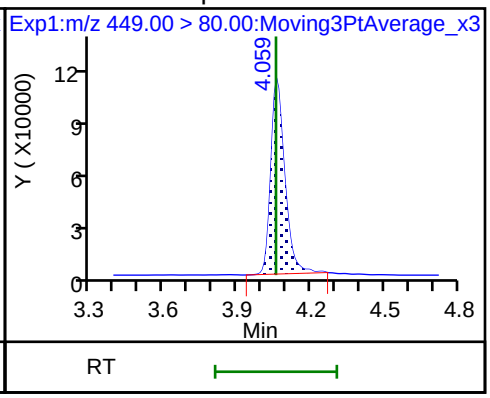
D 20 M2-6:2 FTS



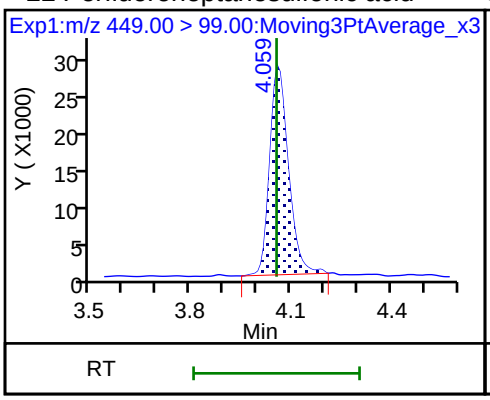
21 6:2 FTS



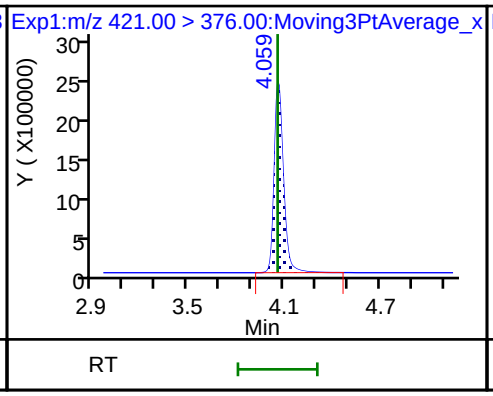
22 Perfluoroheptanesulfonic acid



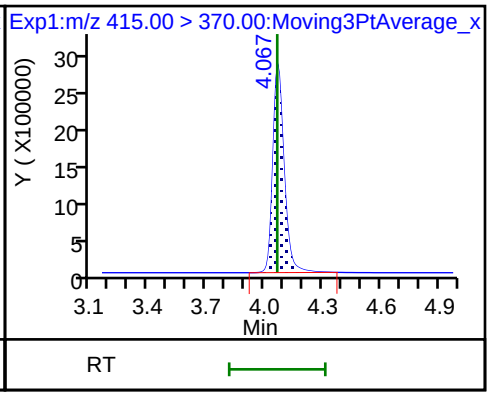
22 Perfluoroheptanesulfonic acid



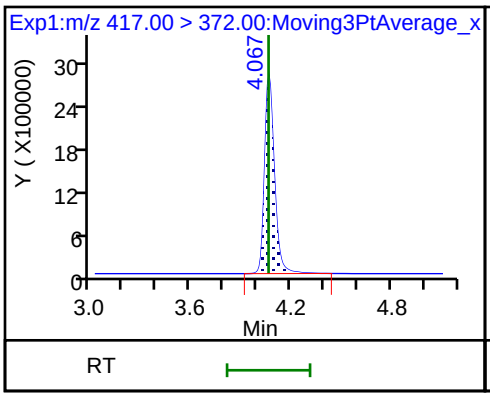
$ 23 13C8 PFOA



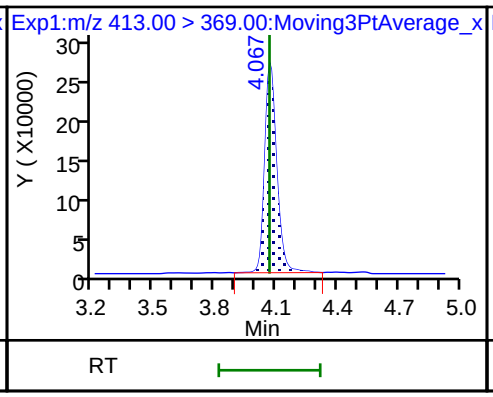
* 25 13C2 PFOA



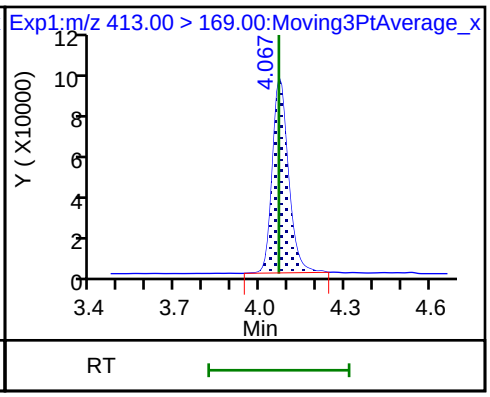
D 24 13C4 PFOA



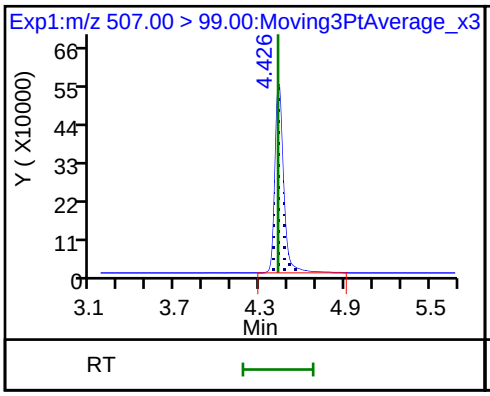
26 Perfluorooctanoic acid



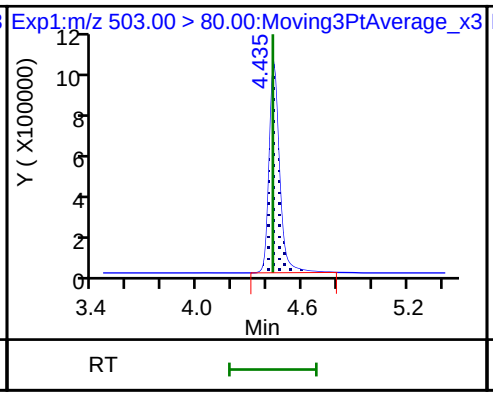
26 Perfluorooctanoic acid



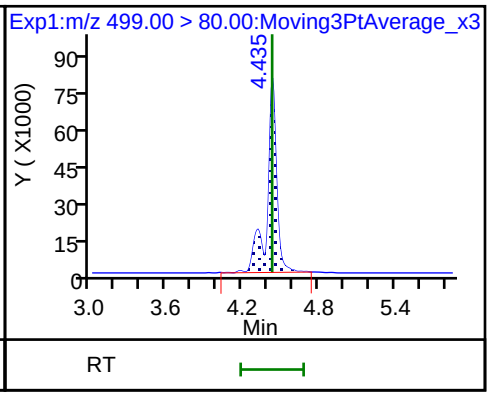
$ 27 13C8 PFOS



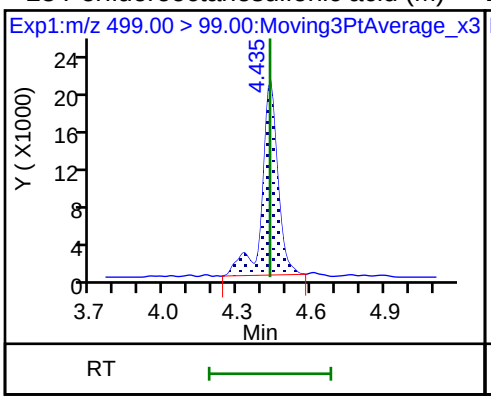
D 29 13C4 PFOS



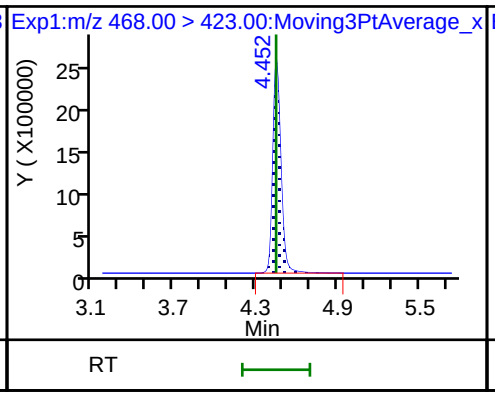
28 Perfluorooctanesulfonic acid



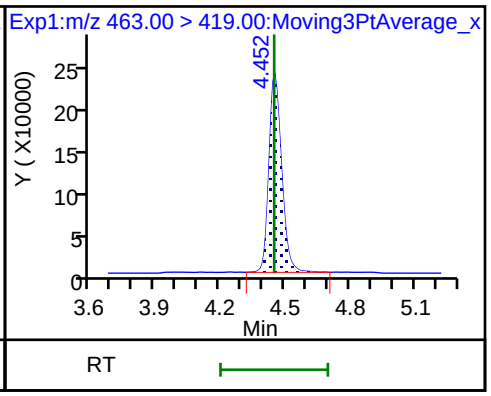
28 Perfluorooctanesulfonic acid (M)



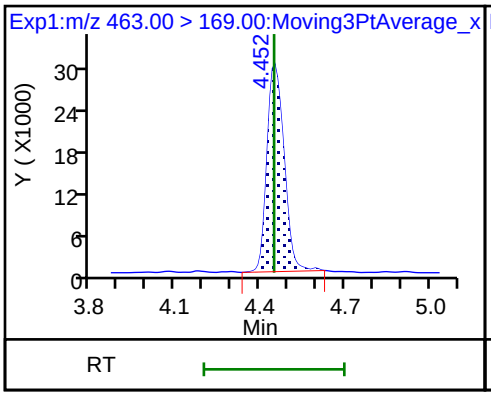
D 31 13C5 PFNA



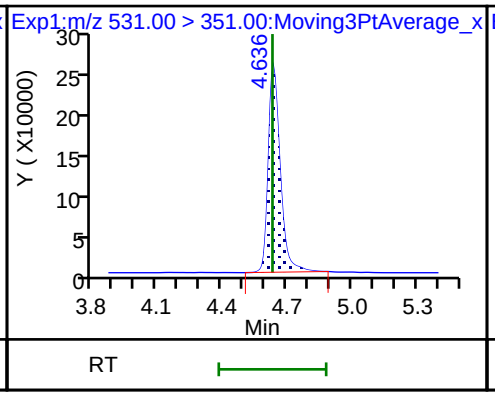
30 Perfluorononanoic acid



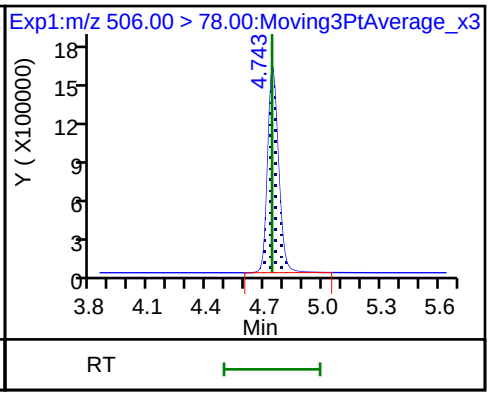
30 Perfluorononanoic acid



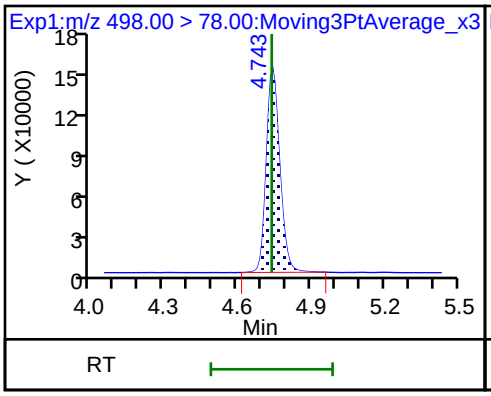
32 9ClFOS



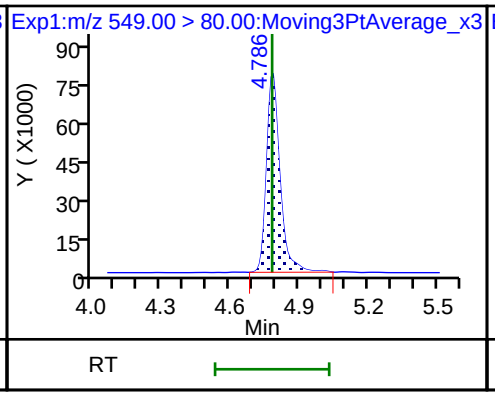
D 34 13C8 FOSA



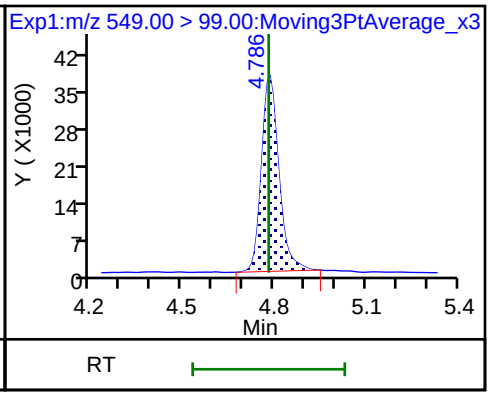
33 Perfluorooctanesulfonamide



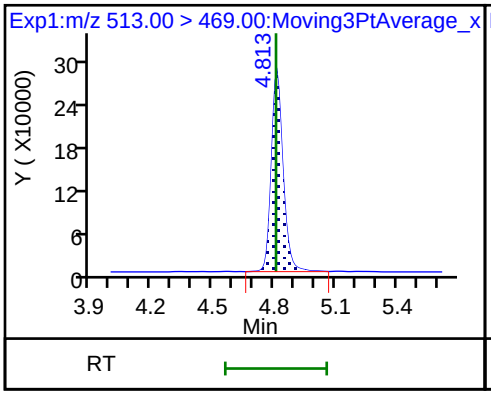
35 Perfluorononanesulfonic acid



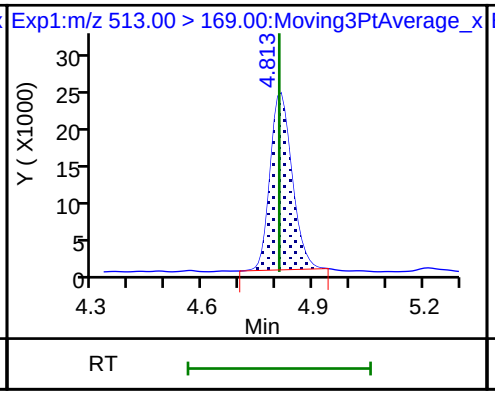
35 Perfluorononanesulfonic acid



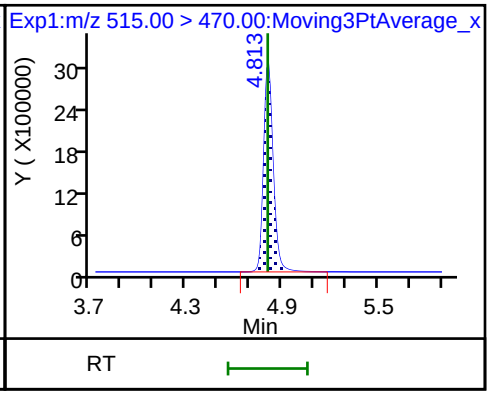
36 Perfluorodecanoic acid



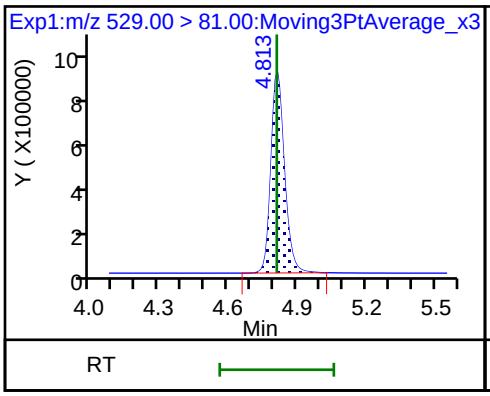
36 Perfluorodecanoic acid



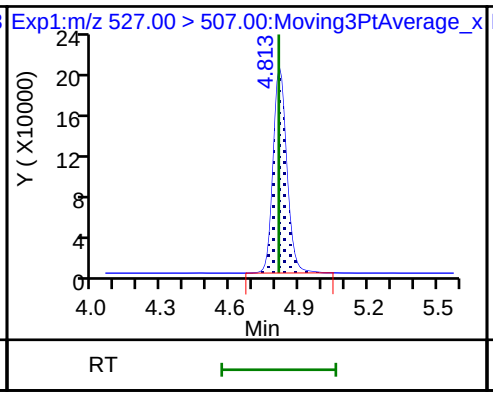
D 37 13C2 PFDA



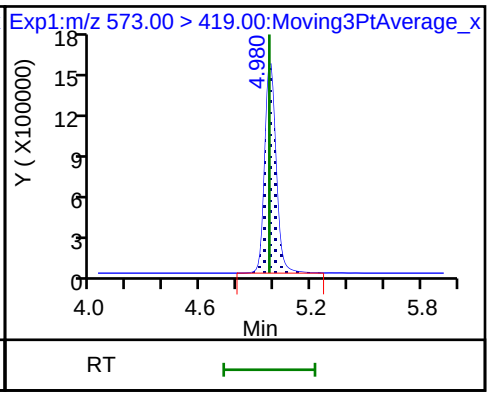
D 38 M2-8:2 FTS



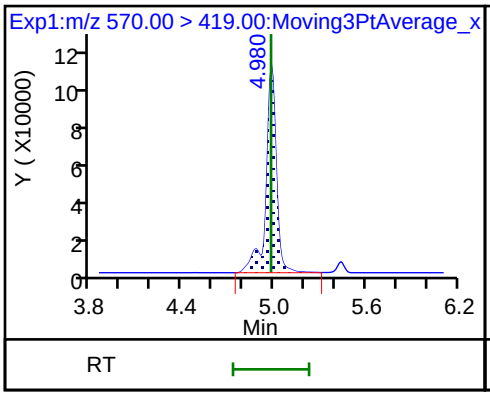
39 8:2 FTS



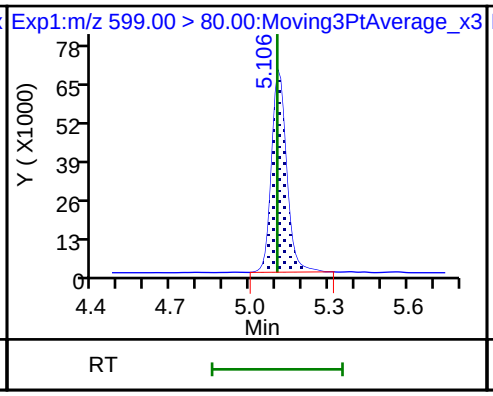
D 40 d3-NMeFOSAA



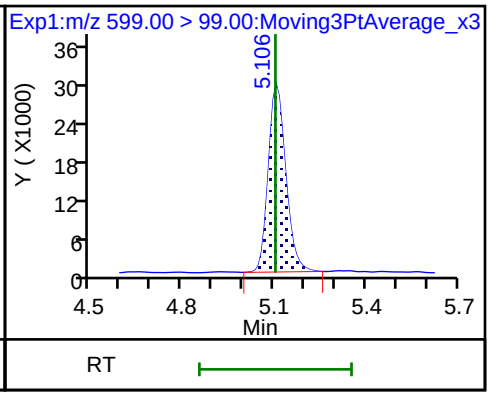
41 NMeFOSAA



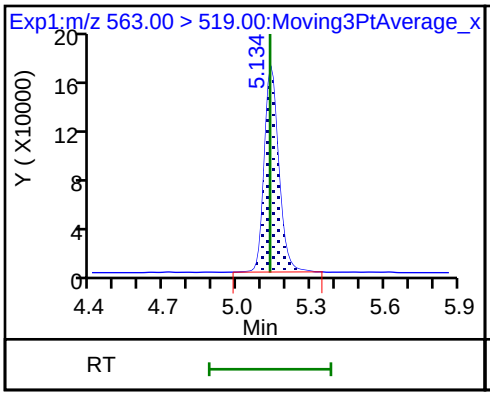
42 Perfluorodecanesulfonic acid



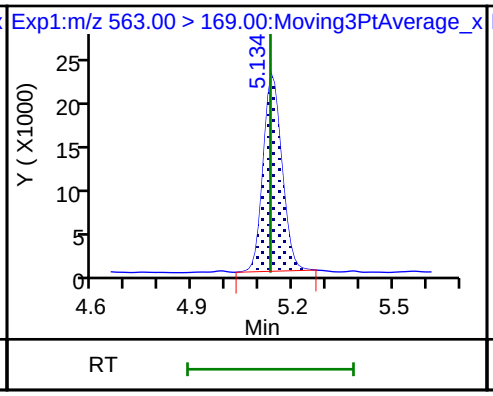
42 Perfluorodecanesulfonic acid



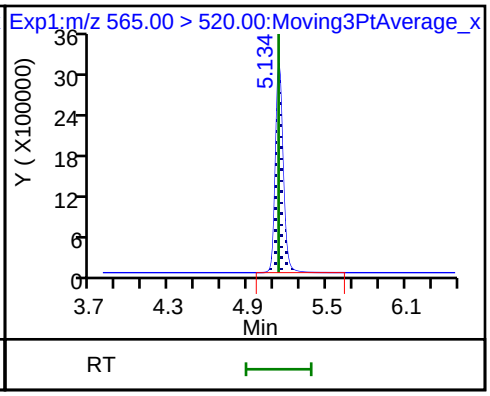
45 Perfluoroundecanoic acid



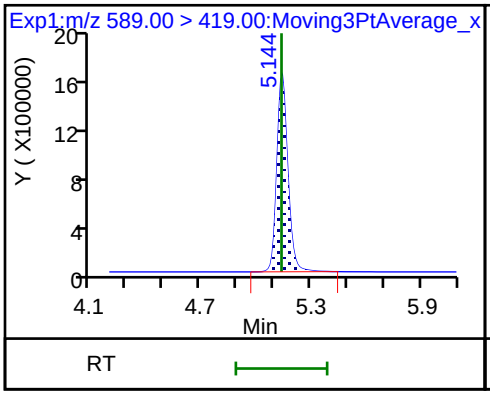
45 Perfluoroundecanoic acid



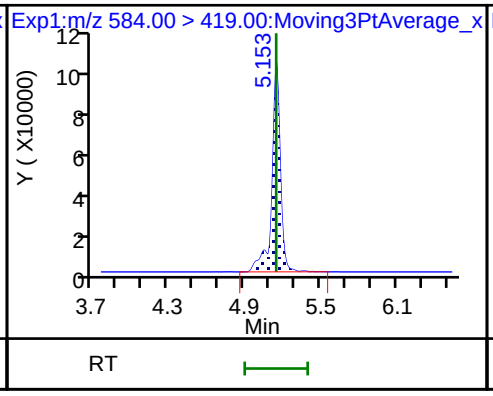
D 44 13C2 PFUnA



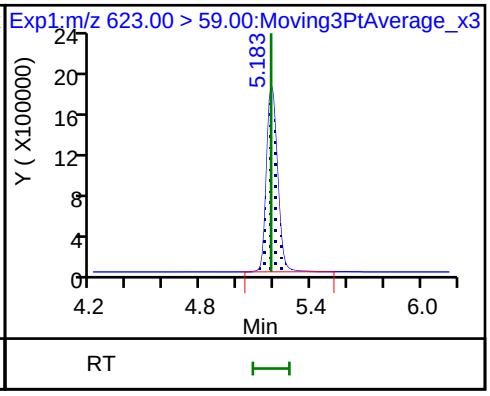
D 46 d5-NEtFOSAA



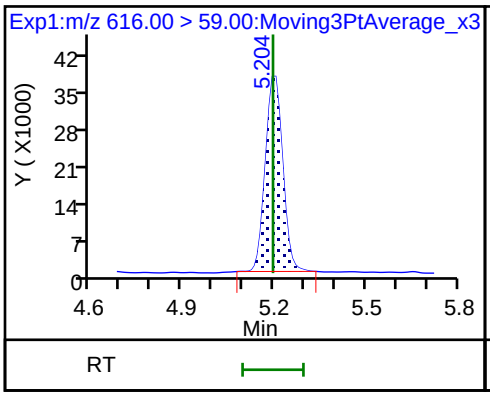
48 NEtFOSA



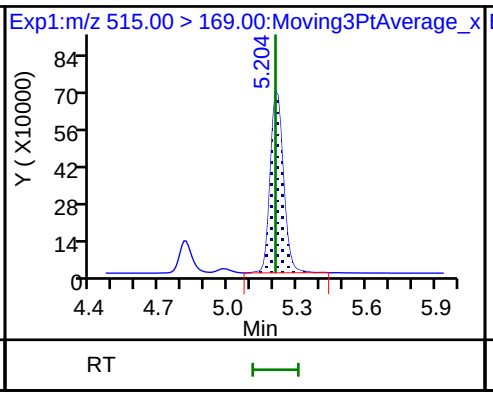
D 43 d7-N-MeFOSE-M



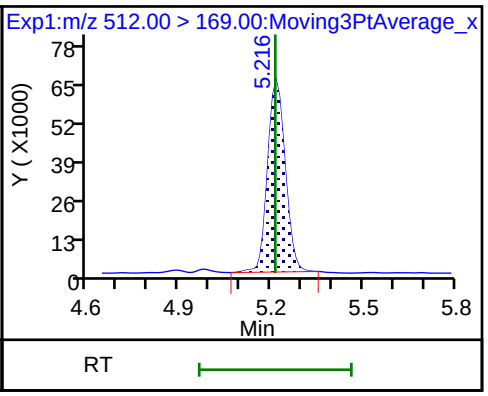
47 N-MeFOSE-M



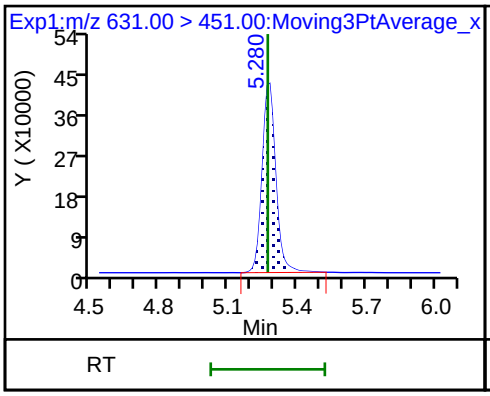
D 49 d-N-MeFOSA-M



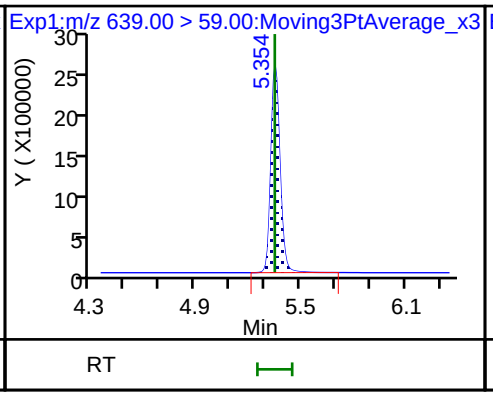
50 NMeFOSA



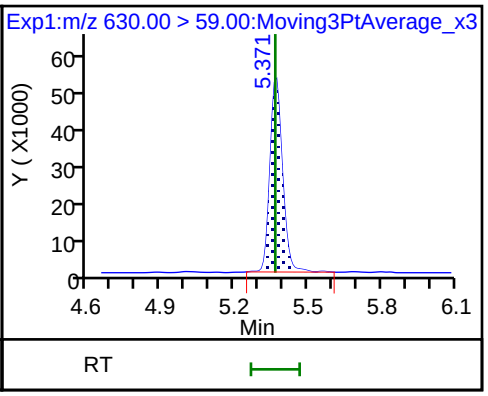
51 11ClFOS



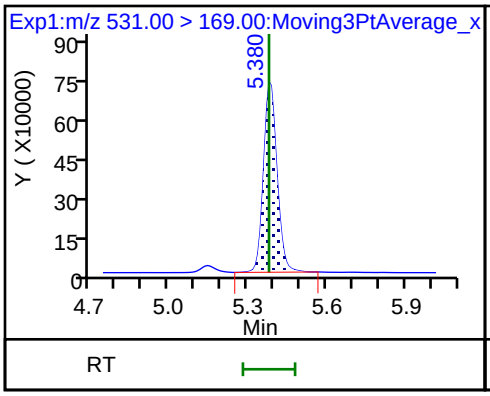
D 52 d9-N-EtFOSE-M



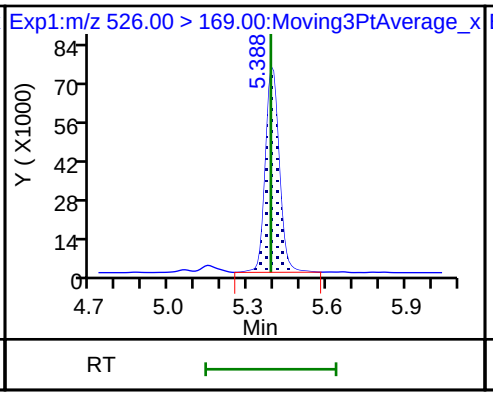
53 N-EtFOSE-M



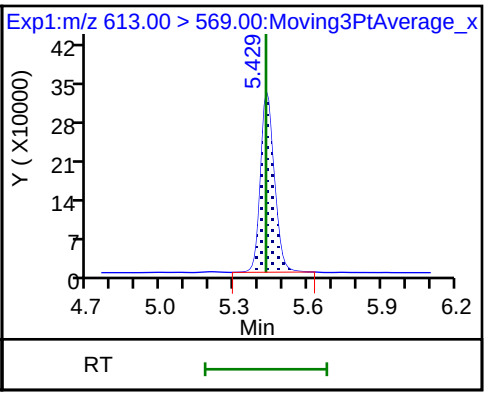
D 54 d-N-EtFOSA-M



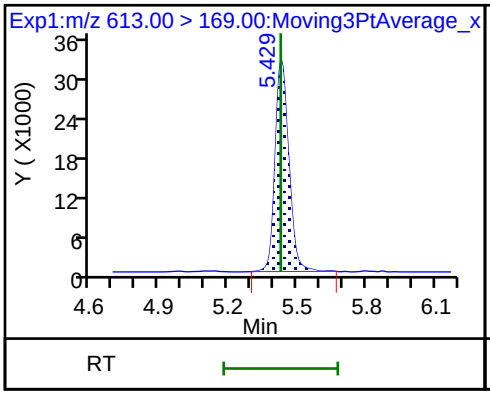
55 N-EtFOSA-M



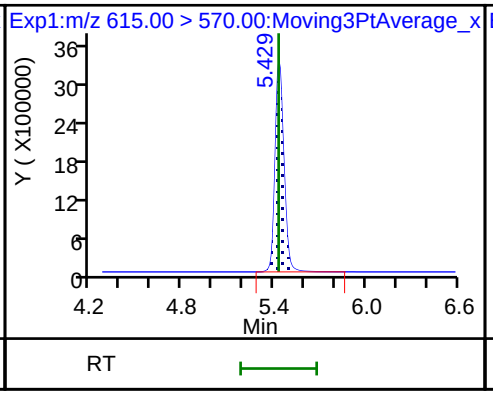
57 Perfluorododecanoic acid



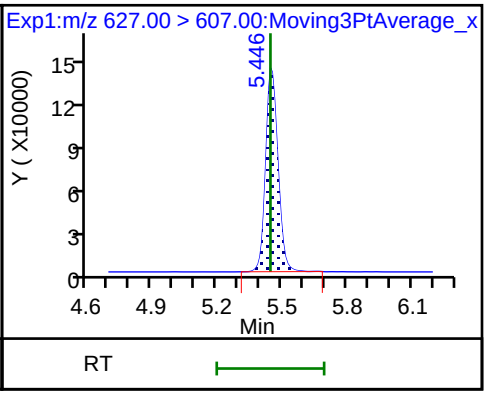
57 Perfluorododecanoic acid



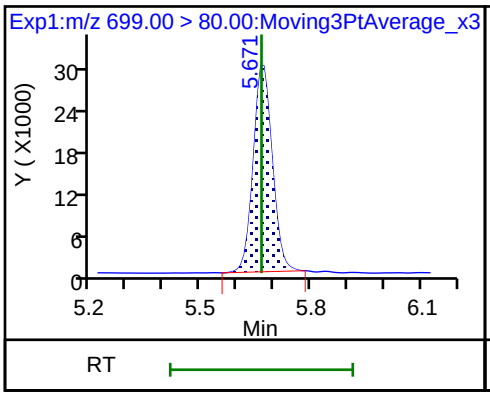
D 56 13C2 PFDoA



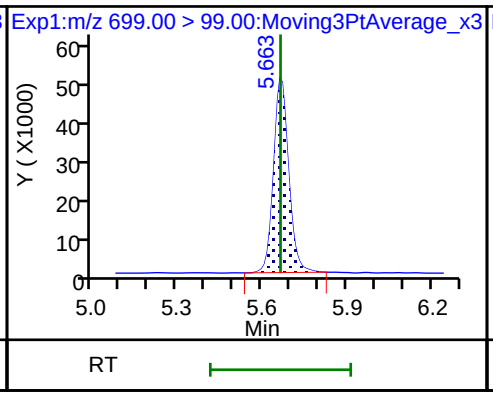
58 10:2 FTS



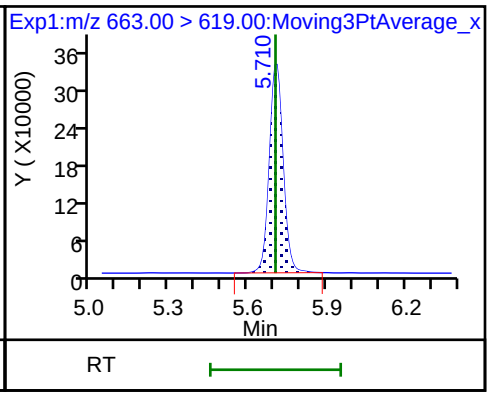
59 PFDoS



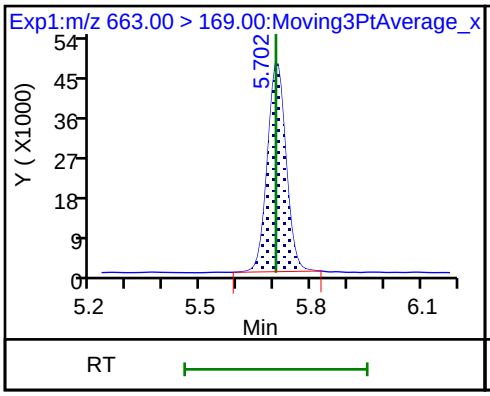
59 PFDoS



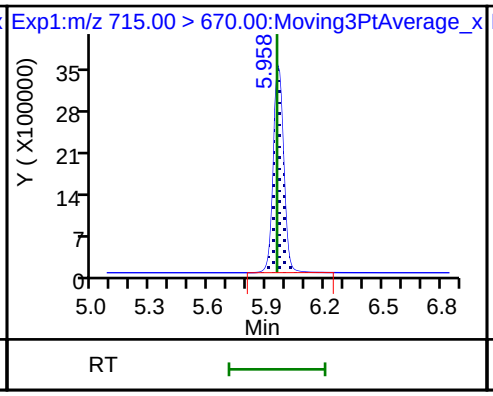
60 Perfluorotridecanoic acid



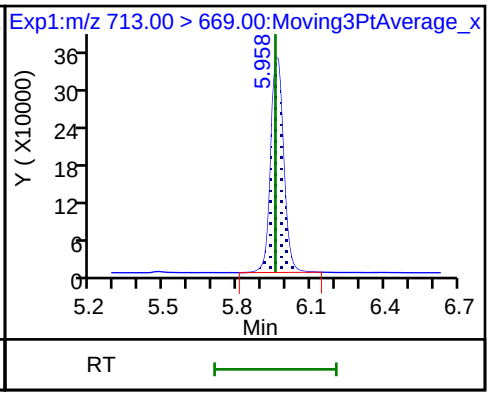
60 Perfluorotridecanoic acid



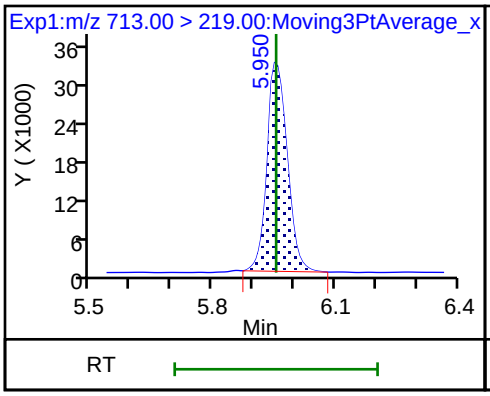
D 61 13C2 PFTeDA



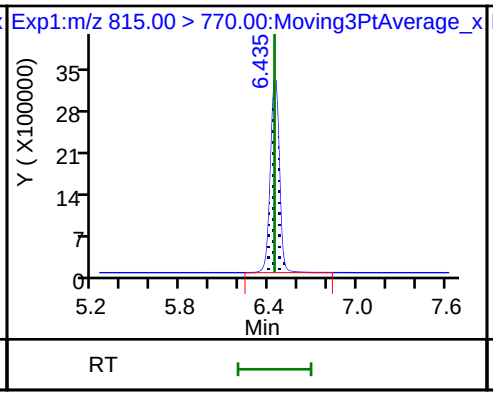
62 Perfluorotetradecanoic acid



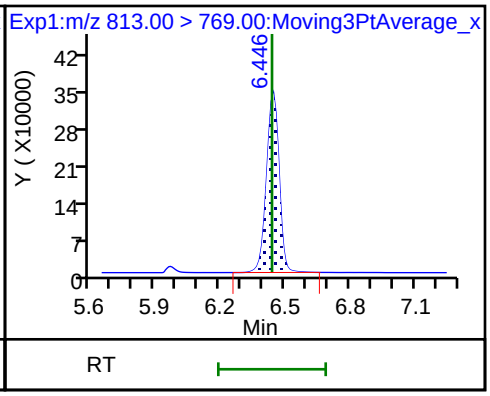
62 Perfluorotetradecanoic acid



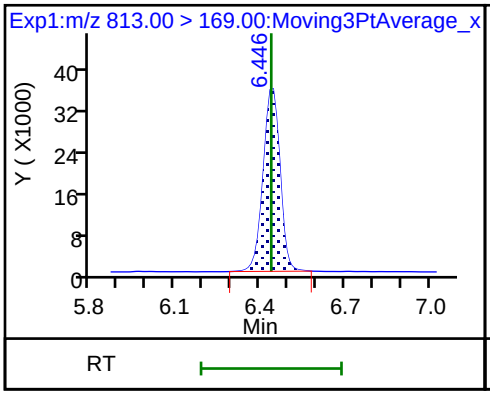
D 64 13C2 PFHxDA



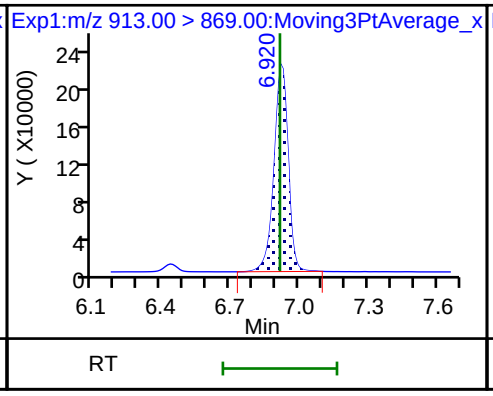
63 Perfluorohexadecanoic acid



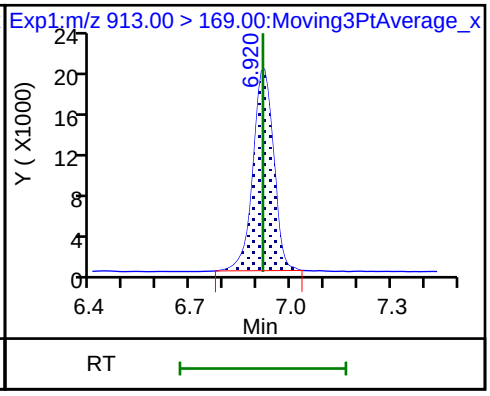
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

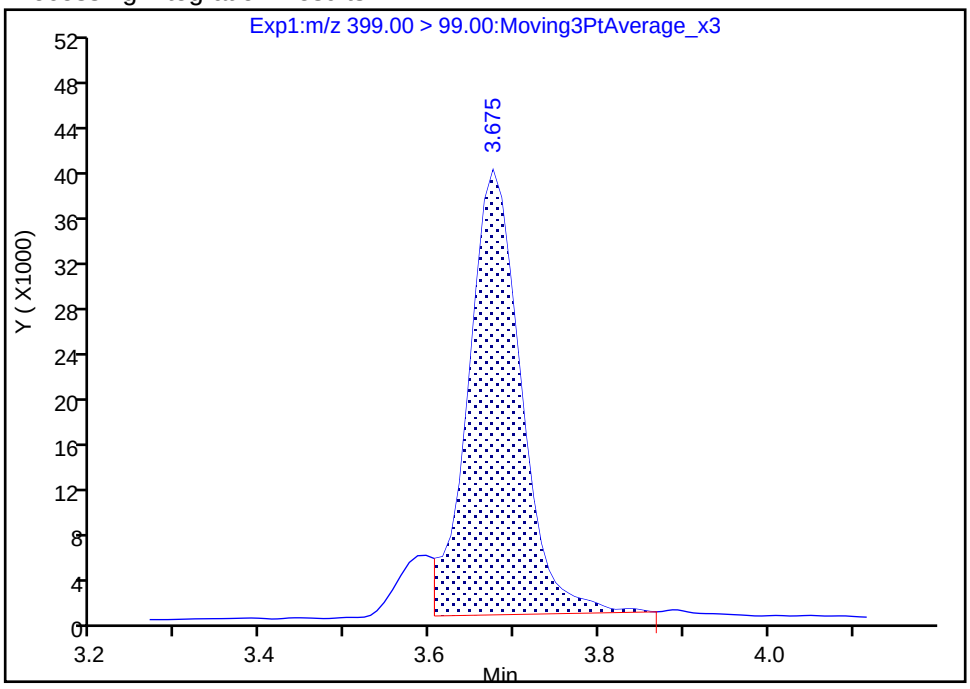
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_006.d
Injection Date: 08-Sep-2020 18:20:37 Instrument ID: A13
Lims ID: IC STD 3
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

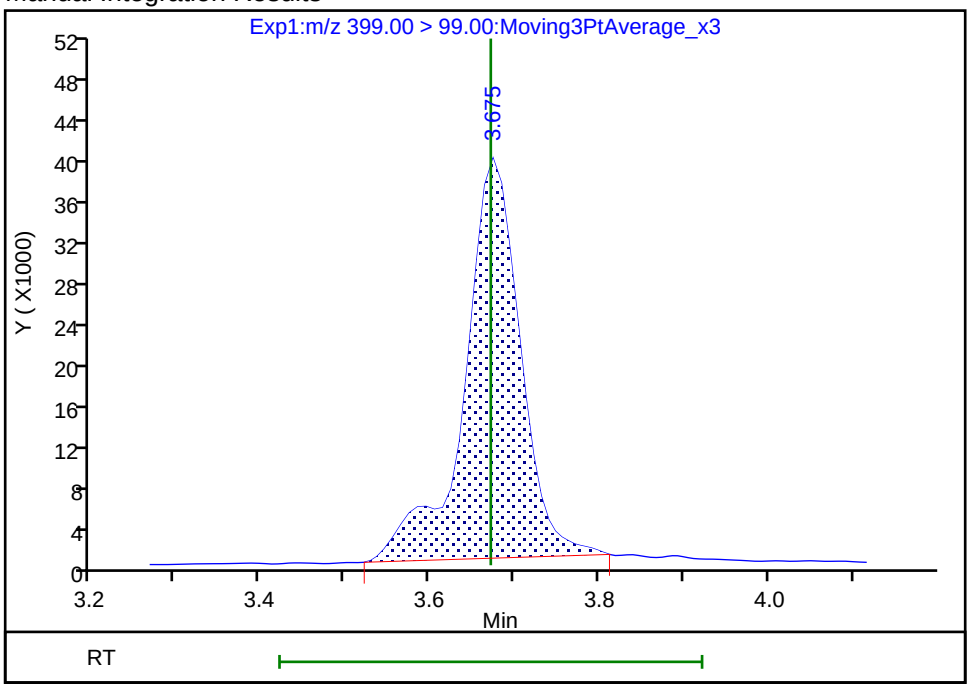
Processing Integration Results

RT: 3.67
Area: 170077
Amount: 0.223069
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 181306
Amount: 0.223069
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:30:41
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

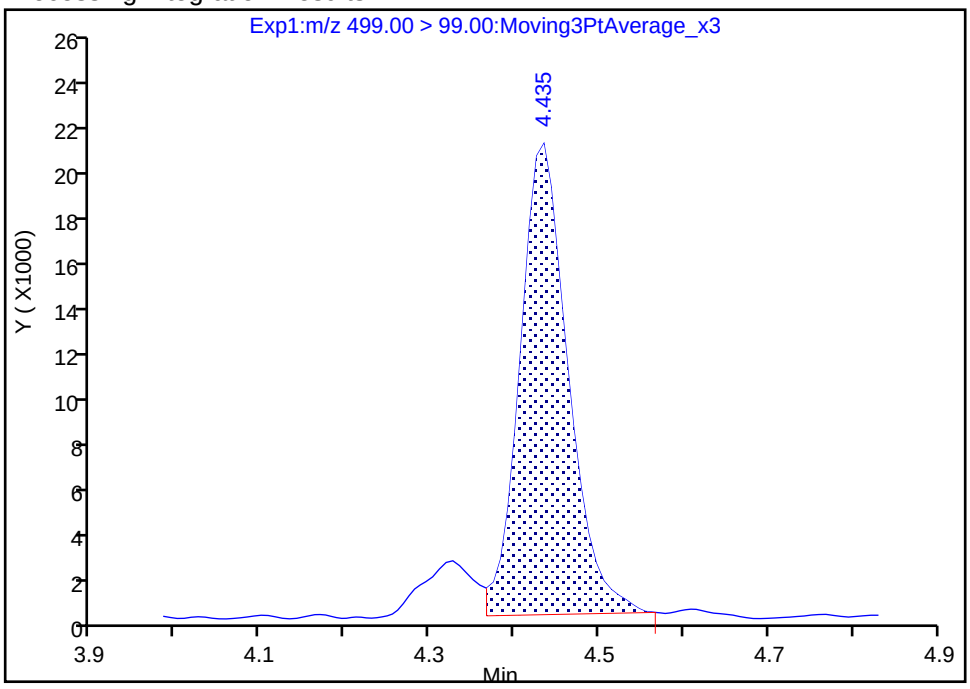
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_006.d
Injection Date: 08-Sep-2020 18:20:37 Instrument ID: A13
Lims ID: IC STD 3
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

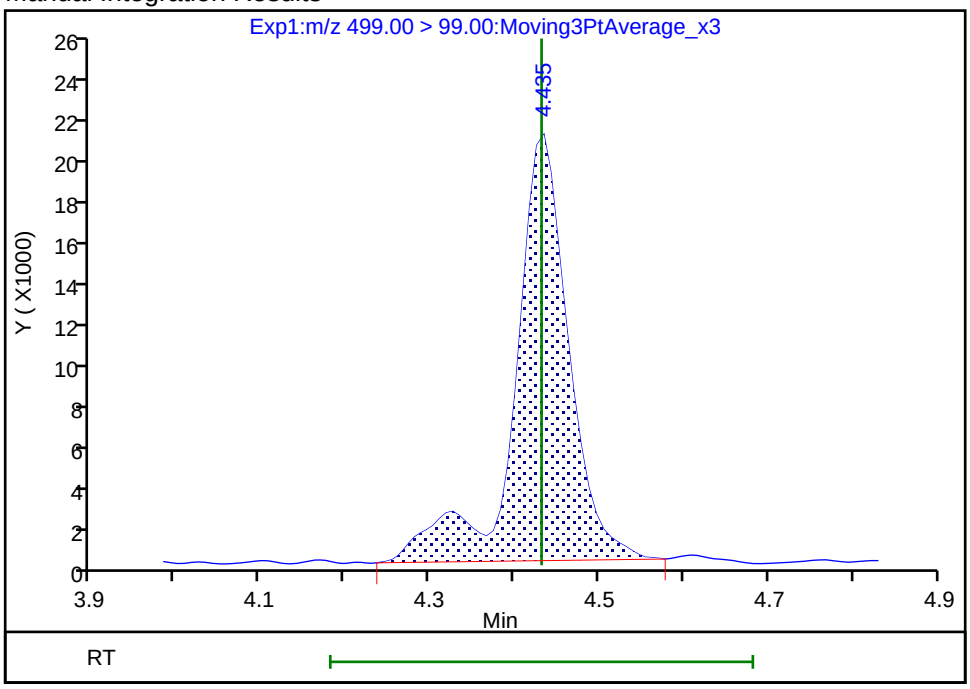
Processing Integration Results

RT: 4.43
Area: 80371
Amount: 0.228713
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 91049
Amount: 0.228713
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:31:03
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_007.d
Lims ID: IC STD 4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Sep-2020 18:30:01 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 4 (30)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:22:07 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 09:15:32
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.477	-0.002	0.610	8923921	2.46		98.3	29364	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.480	-0.005	1.000	3061240	1.15		115	1319	
D 4 13C5 PFPeA										
267.90 > 223.00	2.867	2.873	-0.006	0.706	6830859	2.41		96.5	21453	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.875	-0.008	1.000	2926237	1.04		104	551	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.718	8241841	2.32		99.7	16754	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	3461956	1.00	Target=2.18	113	5050	
298.90 > 99.00	2.913	2.913	0.0	1.000	1545504		2.24(1.09-3.26)	113	812	
7 4:2 FTS										
327.00 > 307.00	3.215	3.221	-0.006	1.000	2972806	1.03		111	2211	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.215	3.222	-0.007	0.792	2072842	2.38		102	1364	
D 9 13C2 PFHxA										
315.00 > 270.00	3.258	3.264	-0.006	0.803	8582211	2.45		98.1	34052	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.258	3.265	-0.007	1.000	3453700	1.08	Target=11.68	108	724	
313.00 > 119.00	3.258	3.265	-0.007	1.000	269279		12.83(5.84-17.52)	108	102	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	2978054	1.06	Target=2.56	113	1278	
349.00 > 99.00	3.279	3.279	0.0	1.126	1130944		2.63(1.28-3.84)	113	1404	
12 HPFO-DA										
285.00 > 169.00	3.380	3.386	-0.006	1.000	791192	1.08		108	1589	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.380	3.386	-0.006	0.833	6170375	2.46		98.4	3788	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.665	3.670	-0.005	1.000	3583423	1.02	Target=3.85	102	420	
363.00 > 169.00	3.665	3.670	-0.005	1.000	952249		3.76(1.92-5.77)	102	407	
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.668	-0.003	0.903	8652756	2.51		100	47207	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.665	3.672	-0.007	1.000	2328312	0.9059	Target=3.25	99.5	441942	
399.00 > 99.00	3.665	3.672	-0.007	1.000	696370		3.34(1.62-4.87)	99.5	188	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.665	3.672	-0.007	0.903	5464678	2.35		99.2	19811	
19 DONA										
377.00 > 251.00	3.714	3.719	-0.005	0.839	9381994	1.14	Target=2.76	121	11562	
377.00 > 85.00	3.714	3.719	-0.005	0.839	3163705		2.97(1.38-4.14)	121	3203	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.043	-0.001	0.996	2407058	2.40		101	2486	
21 6:2 FTS										
427.00 > 407.00	4.042	4.043	-0.001	1.000	2365036	0.9696		102	1646	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.051	4.056	-0.005	0.915	2000325	1.10	Target=4.29	115	1896	
449.00 > 99.00	4.051	4.056	-0.005	0.915	471955		4.24(2.15-6.44)	115	610	
$ 23 13C8 PFOA										
421.00 > 376.00	4.051	4.058	-0.007	0.998	9097652	2.39		97.6	10651	
* 25 13C2 PFOA										
415.00 > 370.00	4.059	4.065	-0.006		10686922	2.50			9716	
D 24 13C4 PFOA										
417.00 > 372.00	4.059	4.065	-0.006	1.000	10322203	2.45		98.1	9900	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.059	4.066	-0.007	1.000	4327071	1.02	Target=2.95	102	934	
413.00 > 169.00	4.059	4.066	-0.007	1.000	1505513		2.87(1.47-4.42)	102	1294	
$ 27 13C8 PFOS										
507.00 > 99.00	4.417	4.426	-0.009	1.088	2012625	2.27		94.9	732	
D 29 13C4 PFOS										
503.00 > 80.00	4.425	4.429	-0.004	1.090	3832936	2.31		96.5	3311	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.425	4.432	-0.007	1.000	1689700	1.01	Target=4.28	109	983	
499.00 > 99.00	4.425	4.432	-0.007	1.000	397889		4.25(2.14-6.41)	109	264	M
D 31 13C5 PFNA										
468.00 > 423.00	4.442	4.448	-0.006	1.094	10103666	2.60		104	11785	
30 Perfluorononanoic acid										
463.00 > 419.00	4.442	4.449	-0.007	1.000	3887335	1.01	Target=8.00	101	1000	
463.00 > 169.00	4.442	4.449	-0.007	1.000	519708		7.48(4.00-12.01)	101	935	
32 9ClFOS										
531.00 > 351.00	4.629	4.632	-0.003	1.046	4203800	1.05		112	3874	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.738	-0.004	1.166	6018555	2.52		101	6026	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.739	-0.005	1.000	2387088	1.06		106	4356	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.778	4.781	-0.003	1.080	1314349	1.06	Target=2.15	110	1673	
549.00 > 99.00	4.778	4.781	-0.003	1.080	633965		2.07(1.08-3.23)	110	1021	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.804	4.808	-0.004	1.000	4498411	1.05	Target=10.44	105	2349	
513.00 > 169.00	4.804	4.808	-0.004	1.000	430936		10.44(5.22-15.65)	105	329	
D 37 13C2 PFDA										
515.00 > 470.00	4.804	4.808	-0.004	1.184	11955497	2.54		101	13873	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.804	4.810	-0.006	1.184	3304386	2.49		104	2813	
39 8:2 FTS										
527.00 > 507.00	4.804	4.810	-0.006	1.000	3572258	1.05		109	3440	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.962	4.972	-0.010	1.222	5866210	2.41		96.6	4362	
41 NMeFOSAA										
570.00 > 419.00	4.971	4.978	-0.007	1.002	2023389	1.07		107	262	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.097	5.103	-0.006	1.152	1143074	1.08	Target=2.36	112	2301	
599.00 > 99.00	5.097	5.103	-0.006	1.152	492424		2.32(1.18-3.54)	112	1051	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.126	5.132	-0.006	1.000	3136200	1.00	Target=8.67	99.8	1592	
563.00 > 169.00	5.126	5.132	-0.006	1.000	374011		8.39(4.34-13.01)	99.8	1389	
D 44 13C2 PFUnA										
565.00 > 520.00	5.126	5.132	-0.006	1.263	11864798	2.57		103	6598	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.135	5.139	-0.004	1.265	6002493	2.55		102	5423	
48 NEtFOSA										
584.00 > 419.00	5.145	5.148	-0.003	1.002	1916577	1.03		103	13396	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.174	5.182	-0.008	1.275	7689569	12.9		103	4025	
47 N-MeFOSE-M										
616.00 > 59.00	5.184	5.195	-0.011	1.002	715511	1.09		109	932	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	0.0	1.282	2737546	2.44		97.5	43.9	
50 NMeFOSA										
512.00 > 169.00	5.205	5.213	-0.008	1.000	1252850	1.16		116	286	
51 11ClFOS										
631.00 > 451.00	5.270	5.271	-0.001	1.191	7880150	1.14		121	4724	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.345	5.352	-0.007	1.317	8590768	12.3		98.0	2735	
53 N-EtFOSE-M										
630.00 > 59.00	5.362	5.366	-0.004	1.003	777947	1.09		109	1100	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.379	0.0	1.325	2610483	2.43		97.3	220	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.379	5.386	-0.007	1.000	1223169	1.10		110	219	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.421	5.428	-0.007	1.000	4715418	1.05	Target=9.05	104	2269	
613.00 > 169.00	5.429	5.428	0.001	1.002	521703		9.04(4.52-13.57)	104	1247	
D 56 13C2 PFDoA										
615.00 > 570.00	5.421	5.428	-0.007	1.335	12360280	2.49		99.7	6582	
58 10:2 FTS										
627.00 > 607.00	5.445	5.445	0.0	1.133	2306558	1.02		106	3763	
59 PFDoS										
699.00 > 80.00	5.662	5.665	-0.003	1.279	447598	1.09	Target=0.57	112	1874	
699.00 > 99.00	5.662	5.665	-0.003	1.279	767338		0.58(0.29-0.86)	112	1453	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.702	5.704	-0.002	1.052	5549854	1.20	Target=7.06	120	4508	
663.00 > 169.00	5.702	5.704	-0.002	1.052	715138		7.76(3.53-10.59)	120	1862	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.950	5.953	-0.003	1.466	12428995	2.54		101	17683	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.942	5.954	-0.012	0.999	5131503	1.05	Target=11.23	105	3917	
713.00 > 219.00	5.950	5.954	-0.004	1.000	464017		11.06(5.62-16.85)	105	2059	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.437	-0.002	1.585	12458626	2.44		97.7	7569	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.435	6.439	-0.004	1.000	5235054	1.08	Target=9.45	108	1229	
813.00 > 169.00	6.435	6.439	-0.004	1.000	532847		9.82(4.72-14.17)	108	1672	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.911	6.915	-0.004	1.074	4124214	1.13	Target=11.13	113	1635	
913.00 > 169.00	6.911	6.915	-0.004	1.074	360403		11.44(5.56-16.69)	113	1226	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:22:11 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_007.d

Injection Date: 08-Sep-2020 18:30:01 Instrument ID: A13

Lims ID: IC STD 4

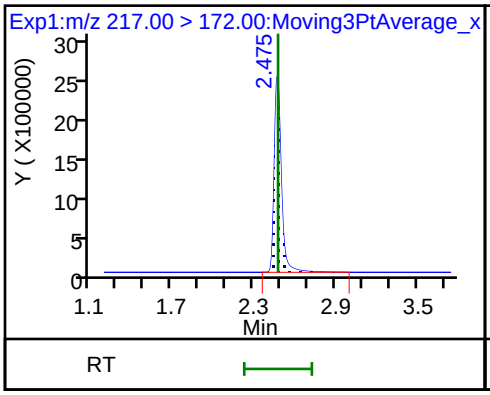
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 5

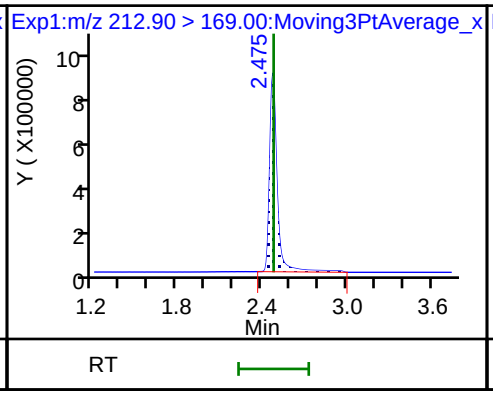
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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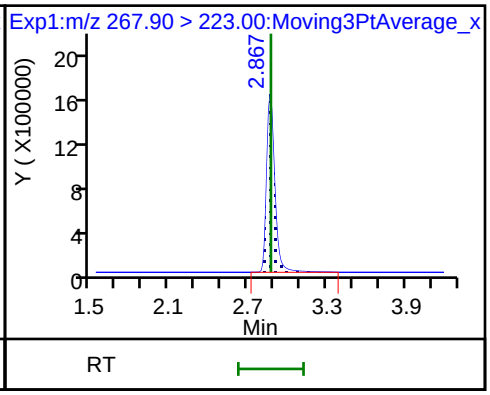
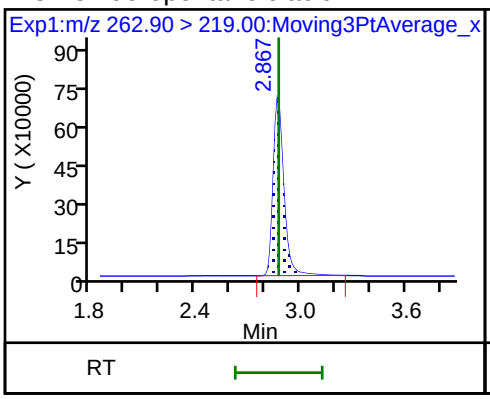
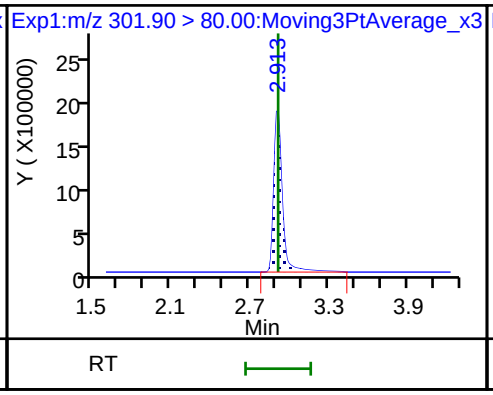


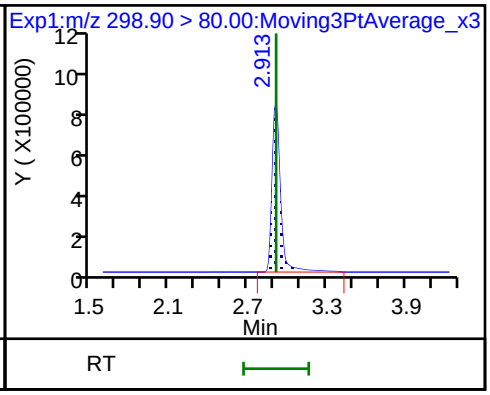
5 Perfluoropentanoic acid



D 14 13C3 PFBS



6 Perfluorobutanesulfonic acid



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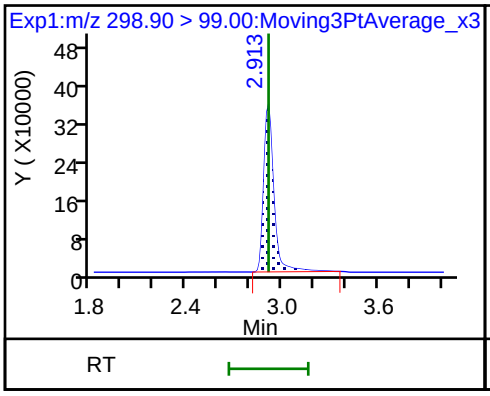
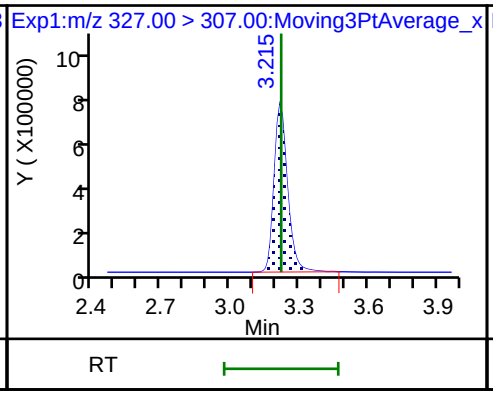
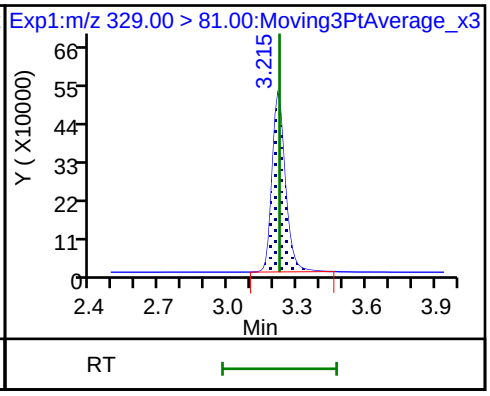


7 4:2 FTS



D 8 M2-4:2 FTS



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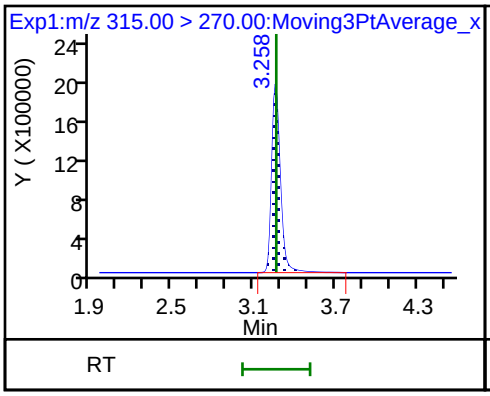
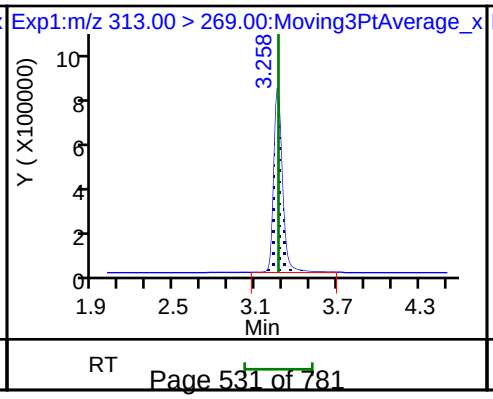
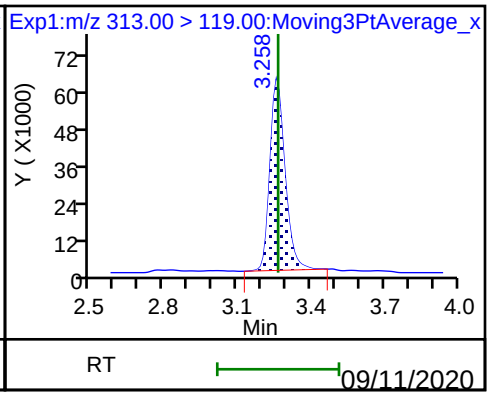


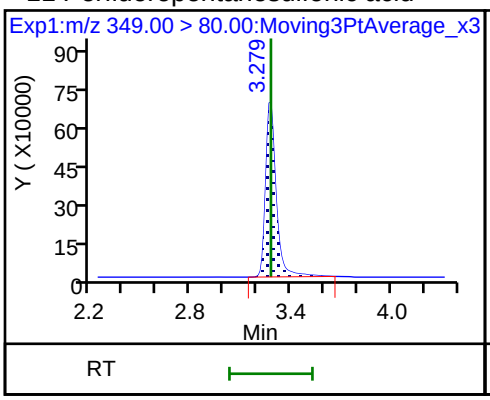
10 Perfluorohexanoic acid



10 Perfluorohexanoic acid



11 Perfluoropentanesulfonic acid



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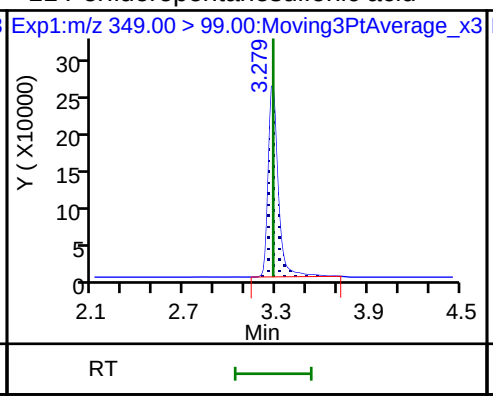
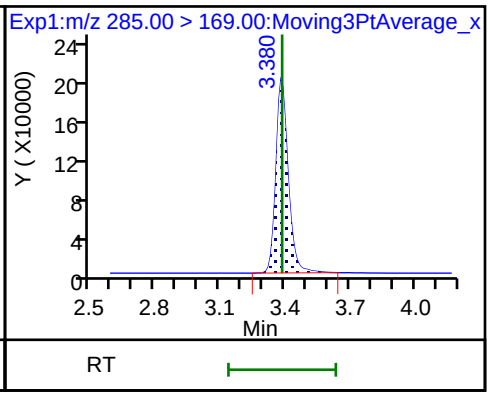
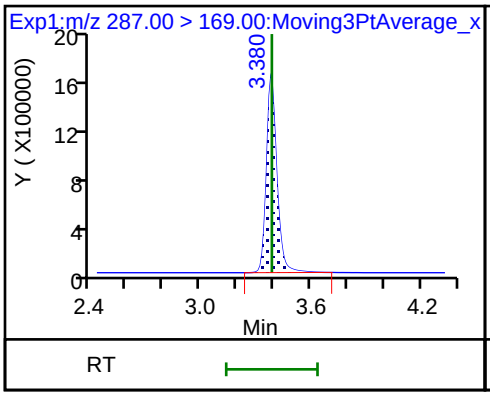


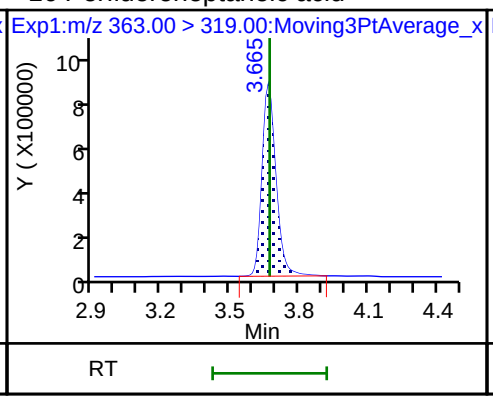
12 HPFO-DA



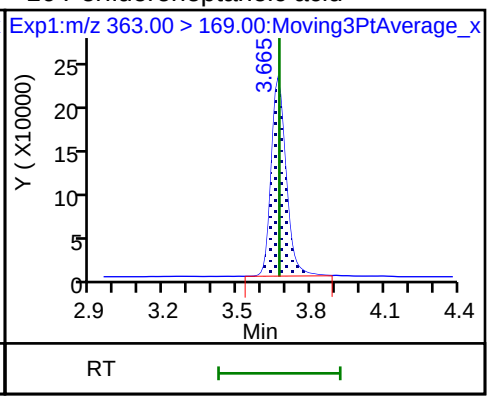
D 13 13C3 HFPO-DA



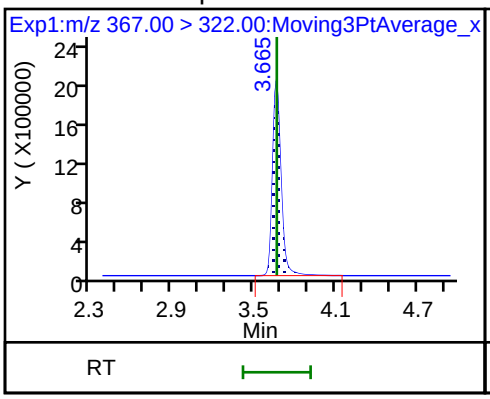
16 Perfluoroheptanoic acid



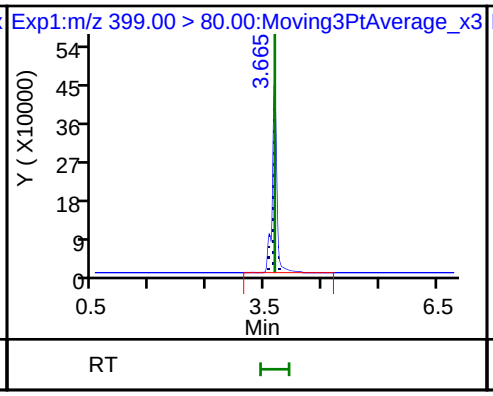
16 Perfluoroheptanoic acid



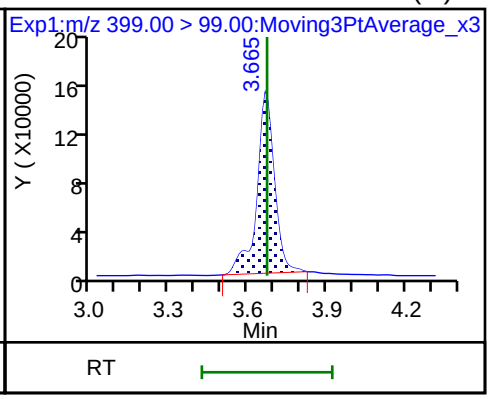
D 15 13C4 PFHpA



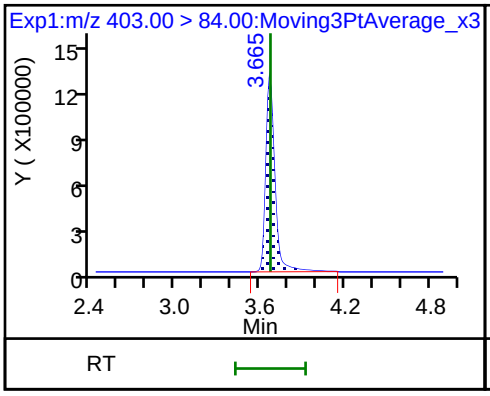
18 Perfluorohexanesulfonic acid



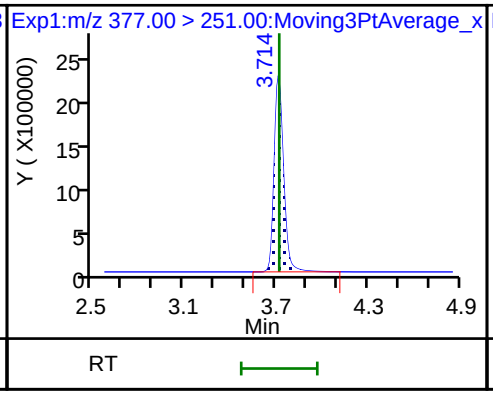
18 Perfluorohexanesulfonic acid (M)



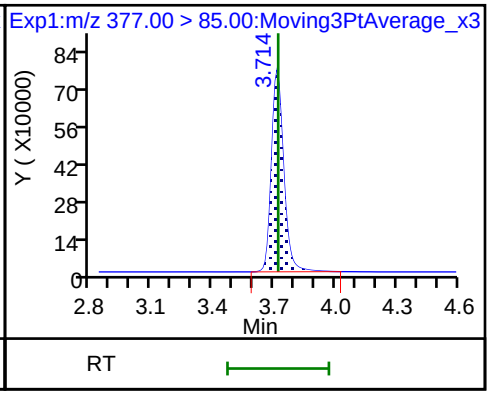
D 17 18O2 PFHxS



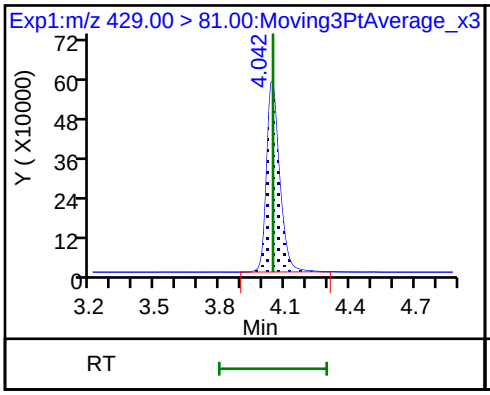
19 DONA



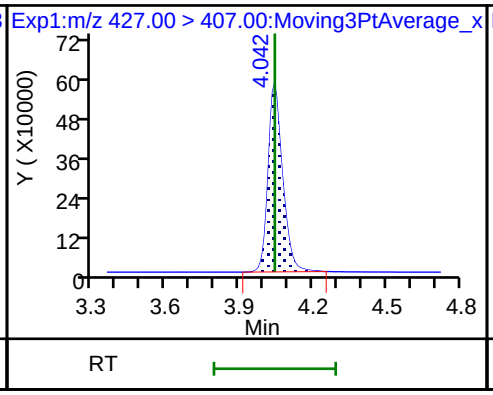
19 DONA



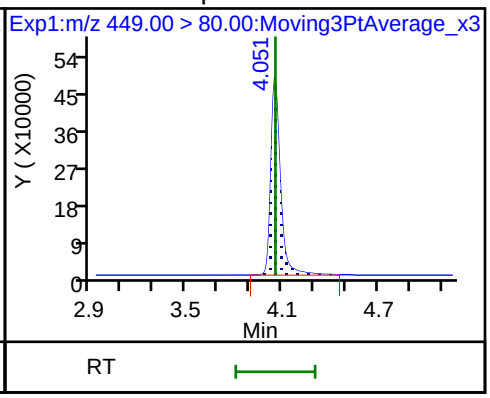
D 20 M2-6:2 FTS



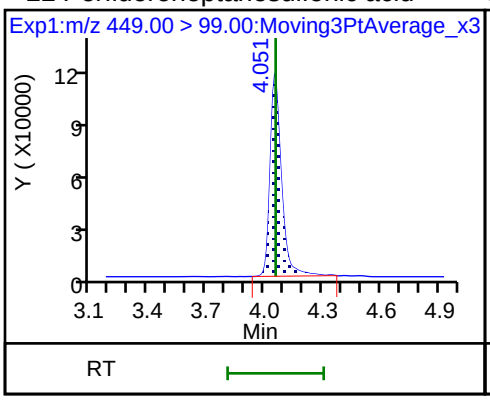
21 6:2 FTS



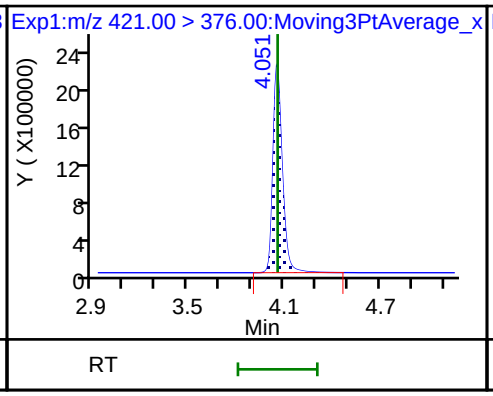
22 Perfluoroheptanesulfonic acid



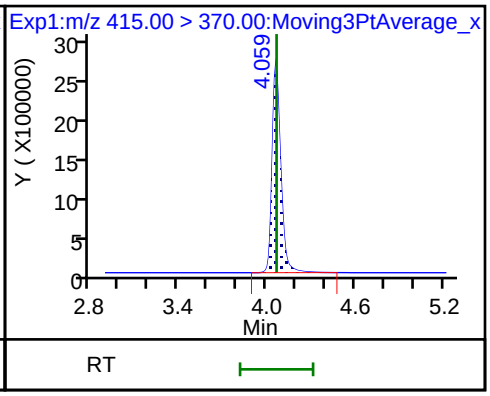
22 Perfluoroheptanesulfonic acid



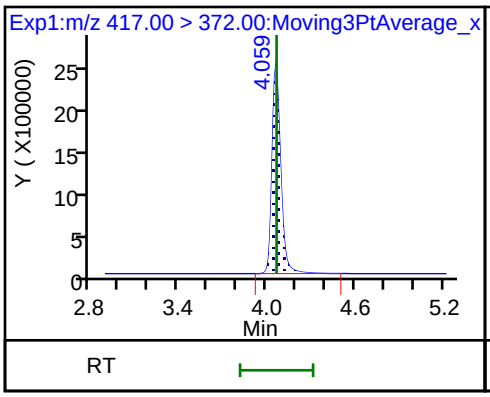
$ 23 13C8 PFOA



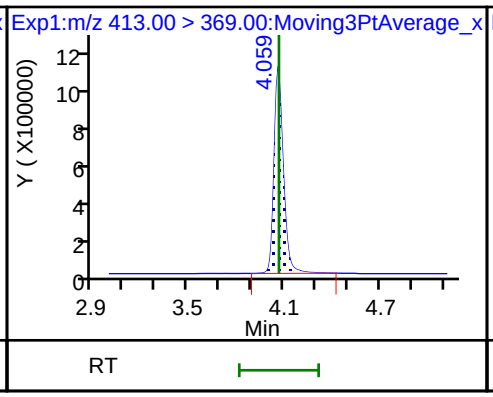
* 25 13C2 PFOA



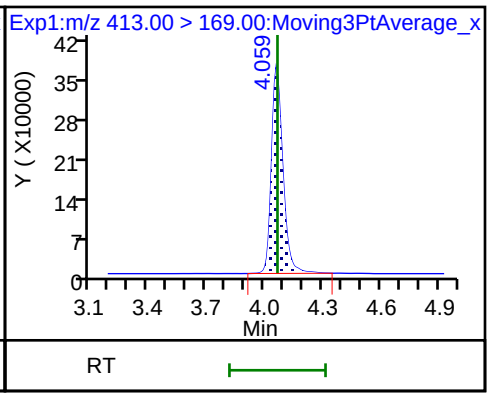
D 24 13C4 PFOA



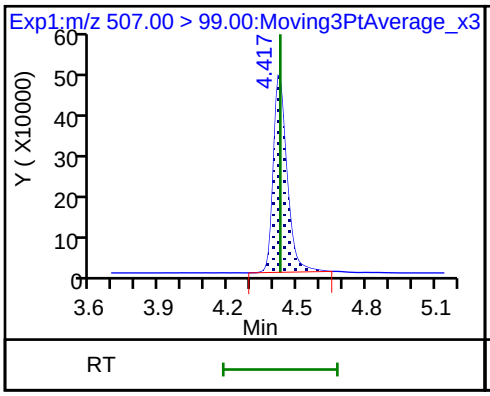
26 Perfluorooctanoic acid



26 Perfluorooctanoic acid



$ 27 13C8 PFOS



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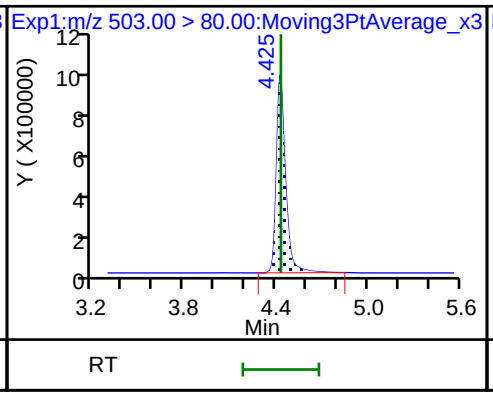
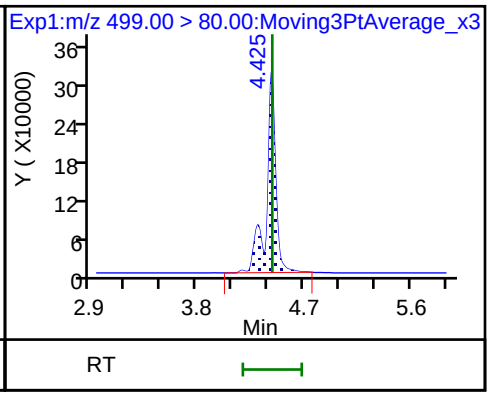
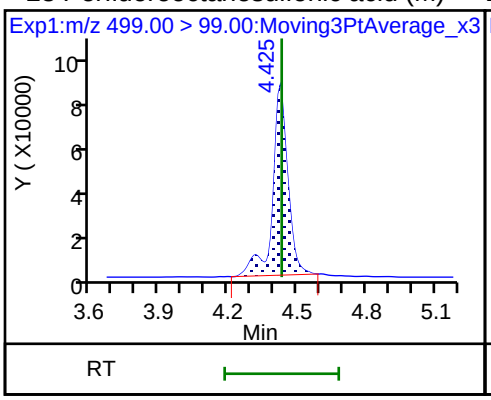


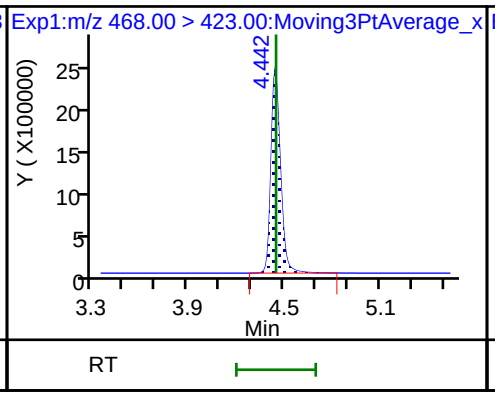
28 Perfluorooctanesulfonic acid



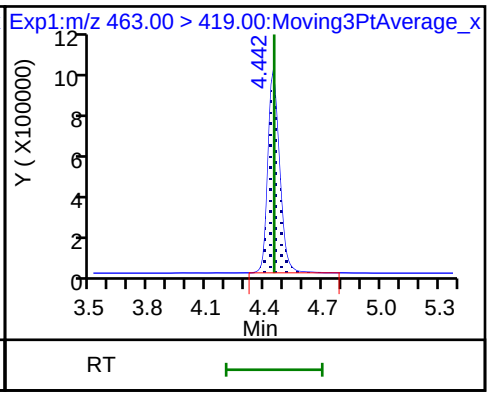
28 Perfluorooctanesulfonic acid (M)



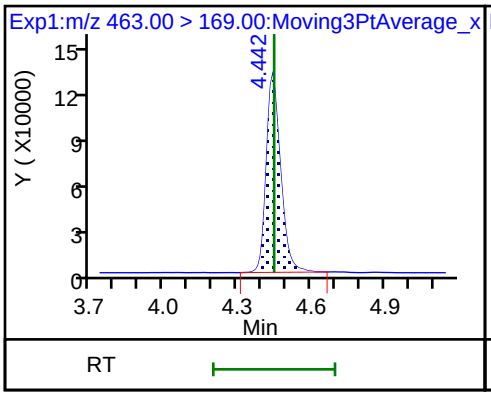
D 31 13C5 PFNA



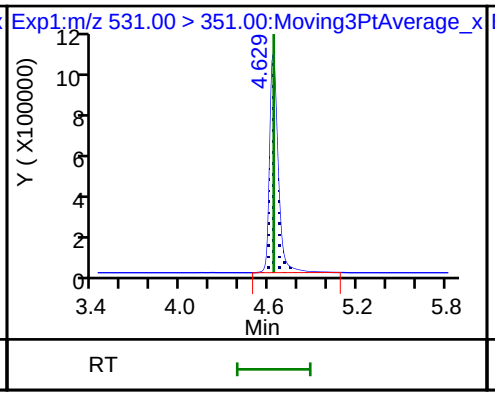
30 Perfluorononanoic acid



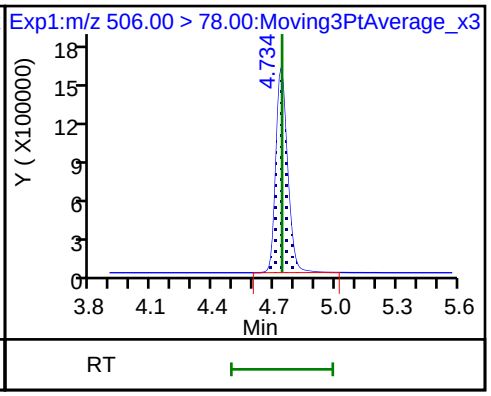
30 Perfluorononanoic acid



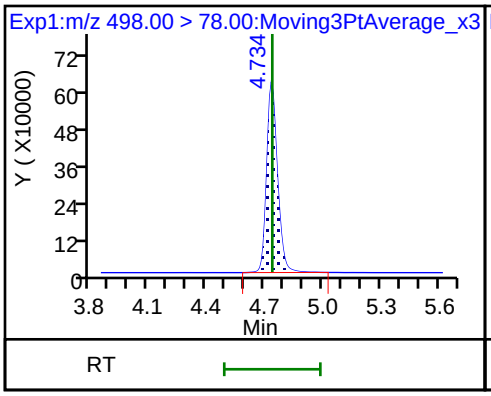
32 9ClFOS



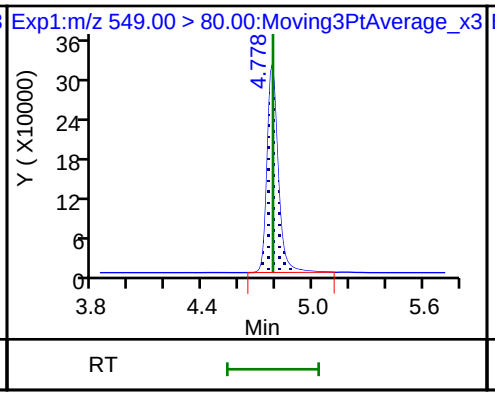
D 34 13C8 FOSA



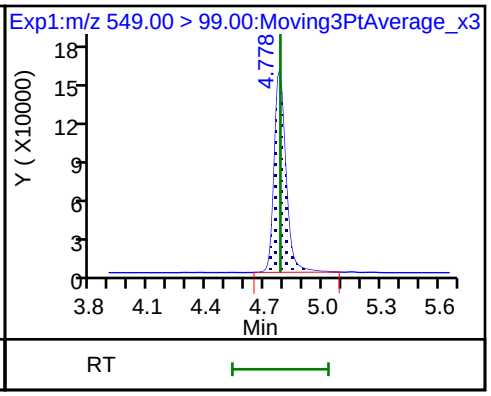
33 Perfluorooctanesulfonamide



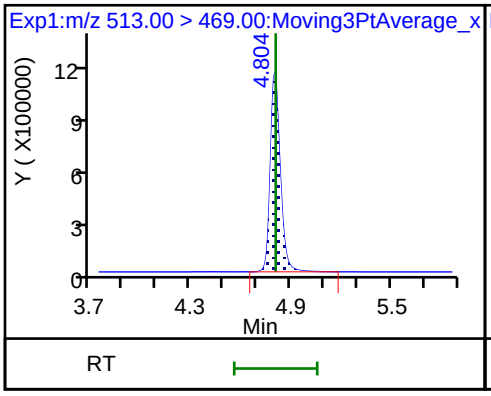
35 Perfluorononanesulfonic acid



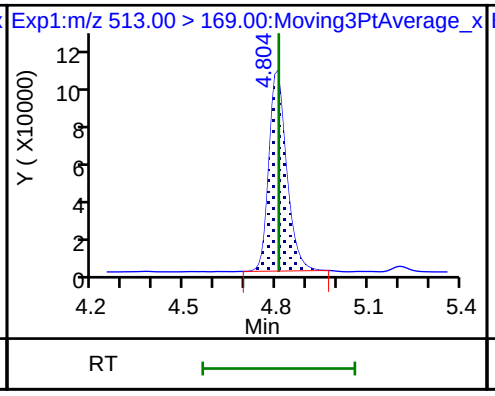
35 Perfluorononanesulfonic acid



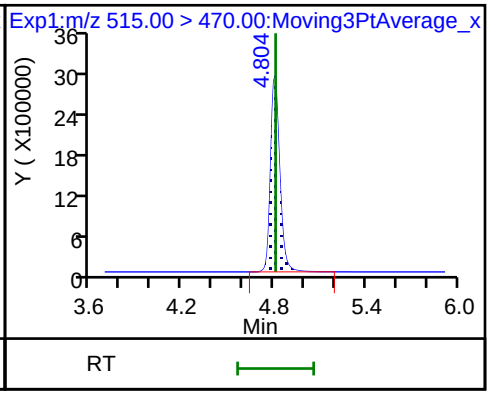
36 Perfluorodecanoic acid



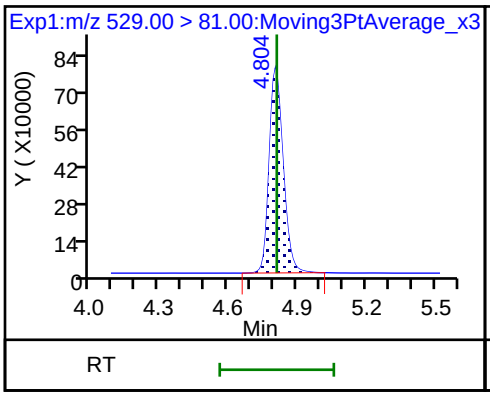
36 Perfluorodecanoic acid



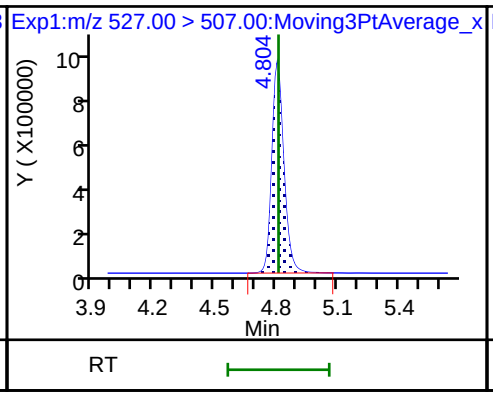
D 37 13C2 PFDA



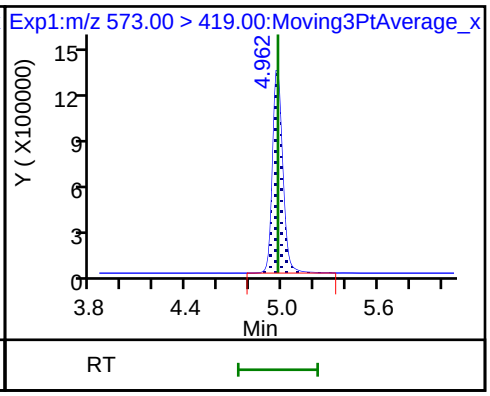
D 38 M2-8:2 FTS



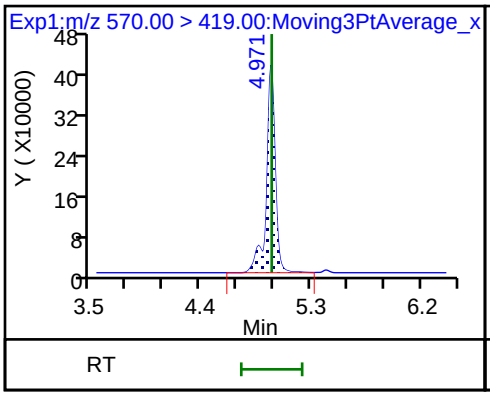
39 8:2 FTS



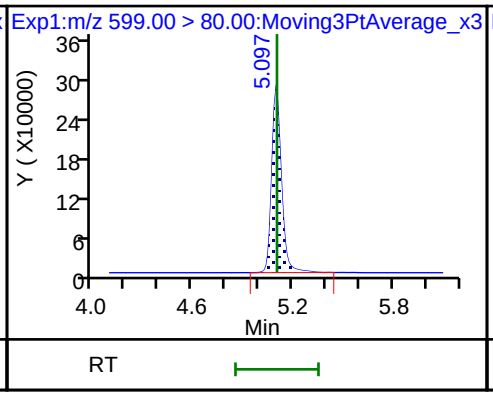
D 40 d3-NMeFOSAA



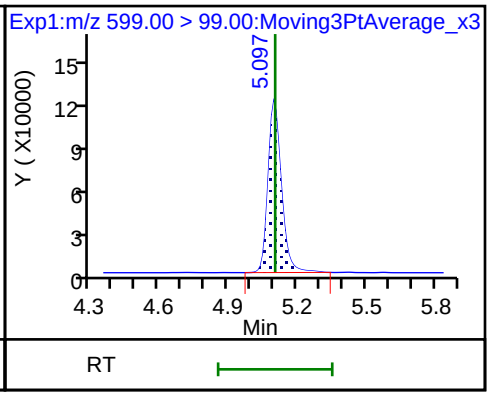
41 NMeFOSAA



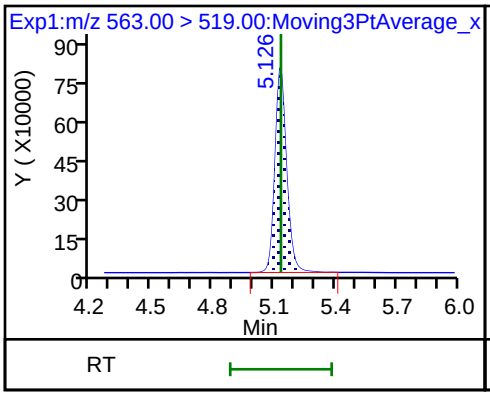
42 Perfluorodecanesulfonic acid



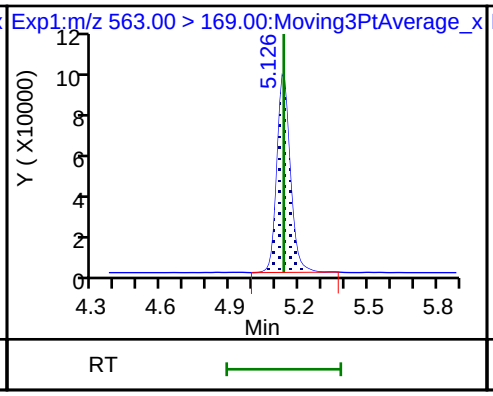
42 Perfluorodecanesulfonic acid



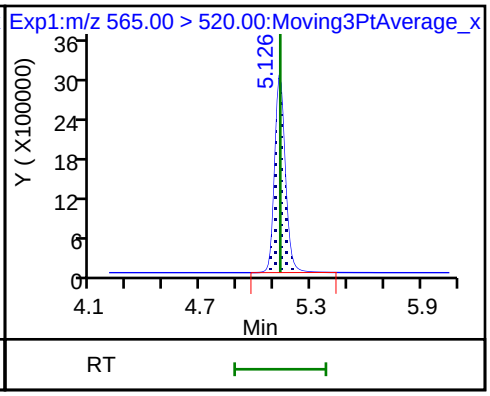
45 Perfluoroundecanoic acid



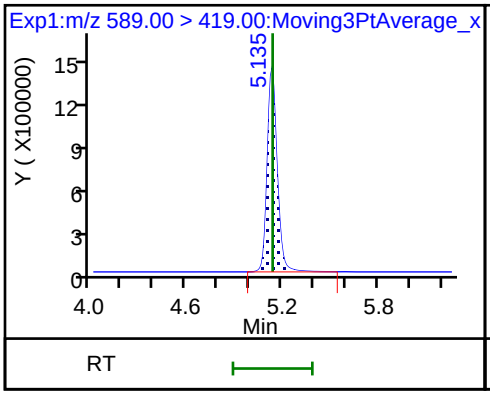
45 Perfluoroundecanoic acid



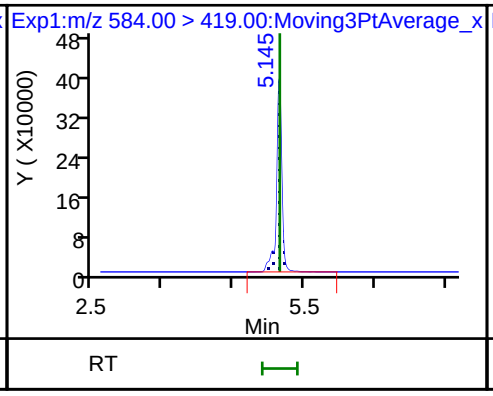
D 44 13C2 PFUnA



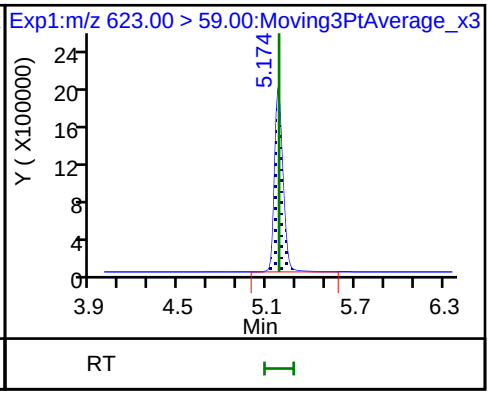
D 46 d5-NEtFOSAA



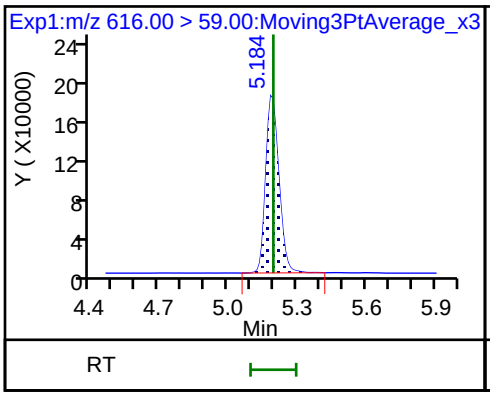
48 NEtFOSA



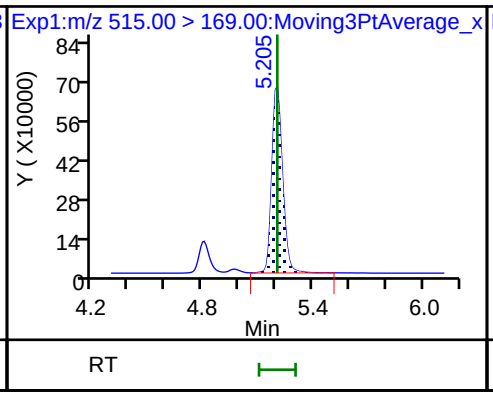
D 43 d7-N-MeFOSE-M



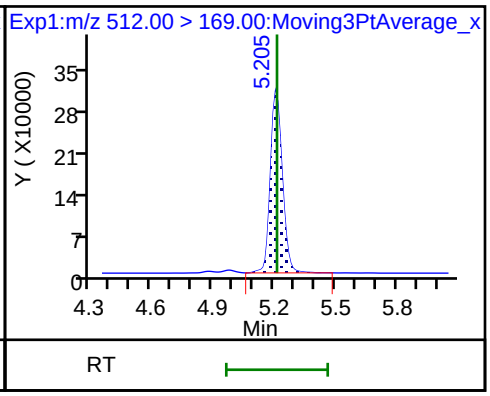
47 N-MeFOSE-M



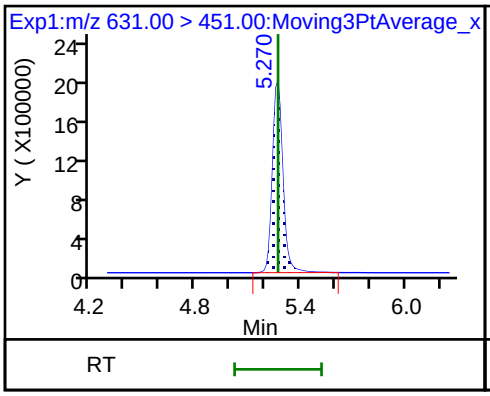
D 49 d-N-MeFOSA-M



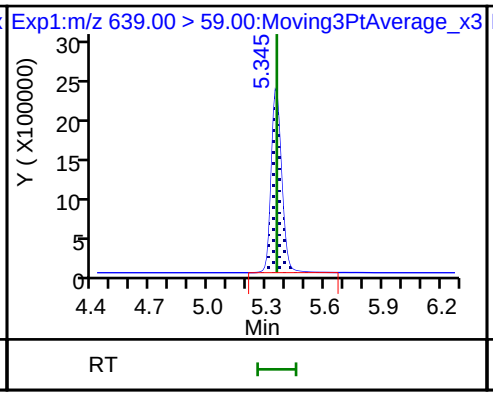
50 NMeFOSA



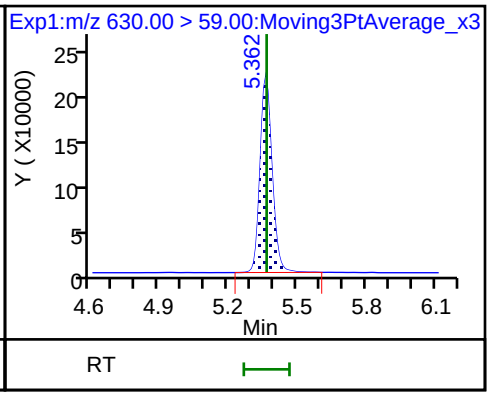
51 11ClFOS



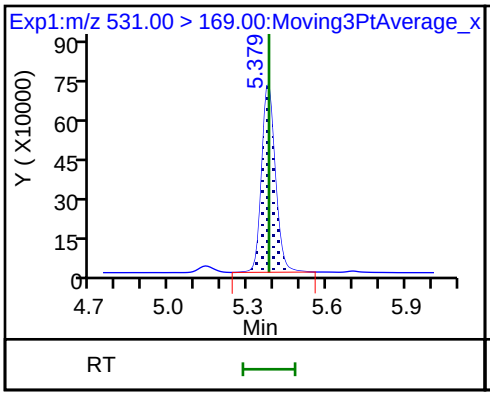
D 52 d9-N-EtFOSE-M



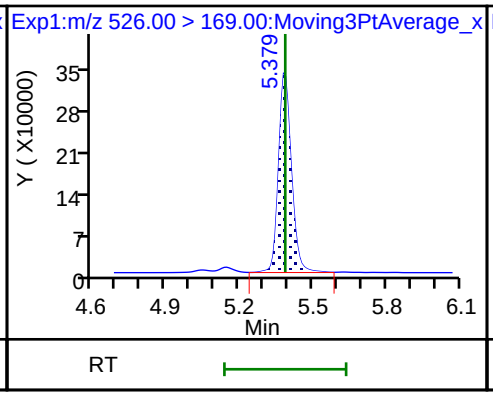
53 N-EtFOSE-M



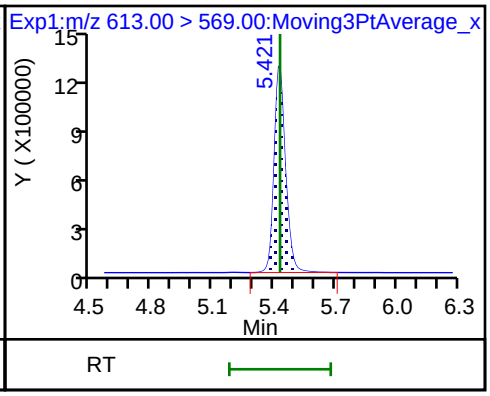
D 54 d-N-EtFOSA-M



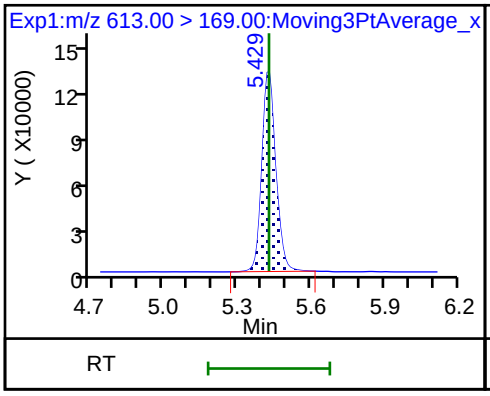
55 N-EtFOSA-M



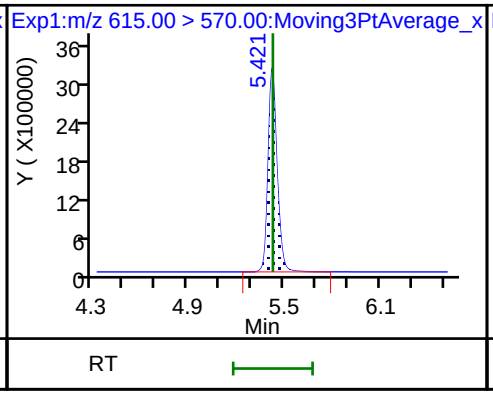
57 Perfluorododecanoic acid



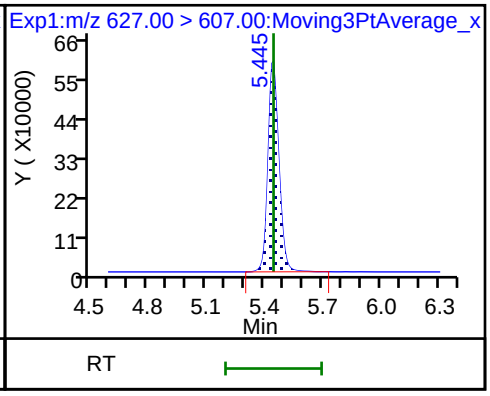
57 Perfluorododecanoic acid



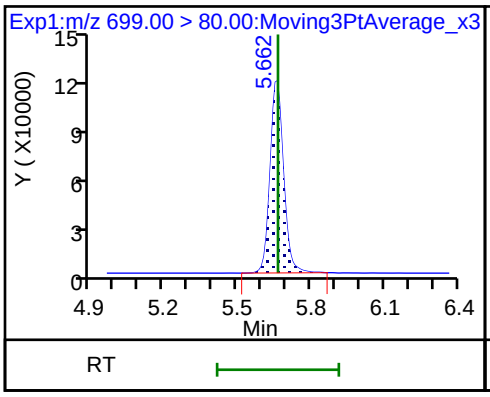
D 56 13C2 PFDoA



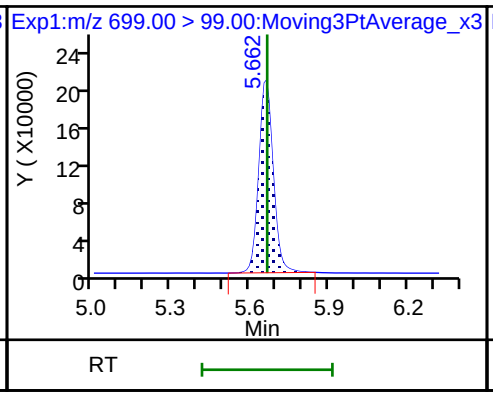
58 10:2 FTS



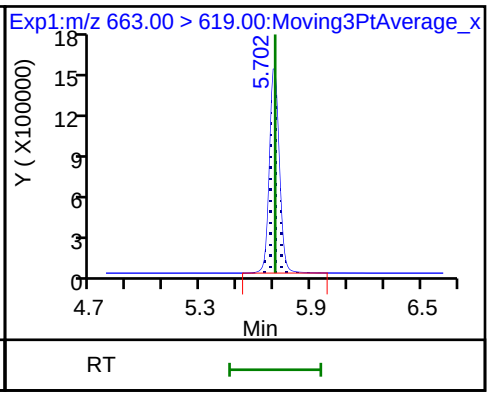
59 PFDoS



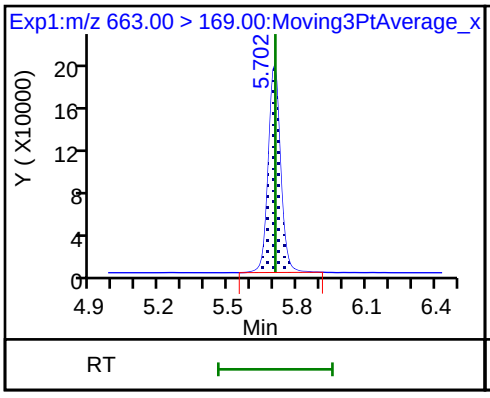
59 PFDoS



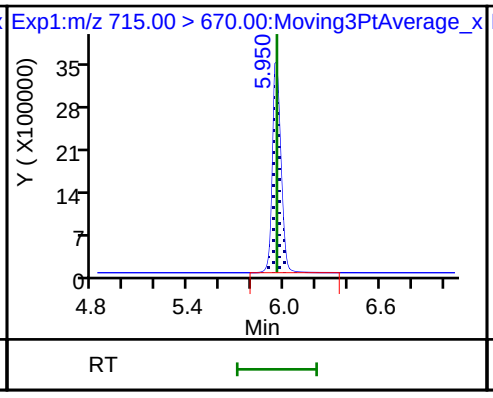
60 Perfluorotridecanoic acid



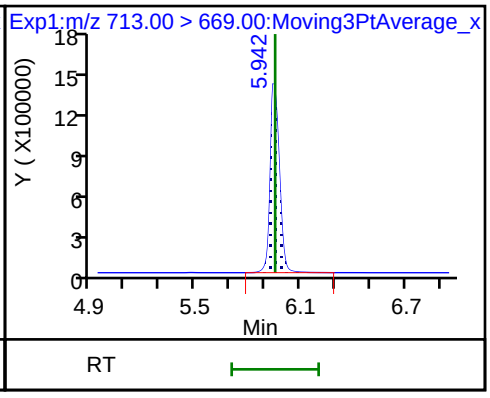
60 Perfluorotridecanoic acid



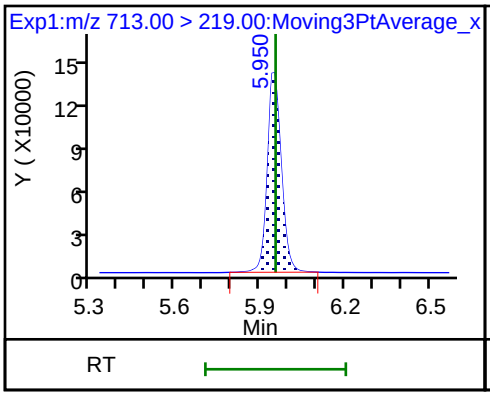
D 61 13C2 PFTeDA



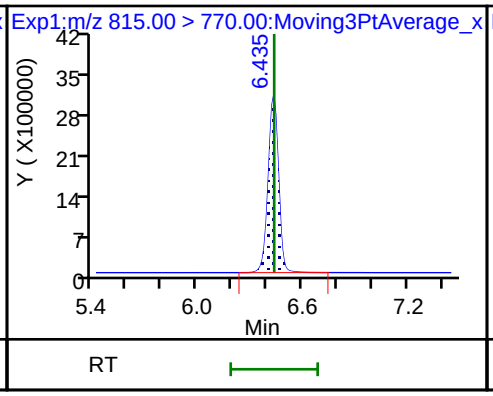
62 Perfluorotetradecanoic acid



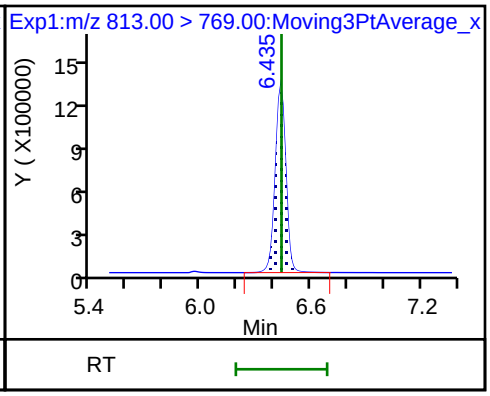
62 Perfluorotetradecanoic acid



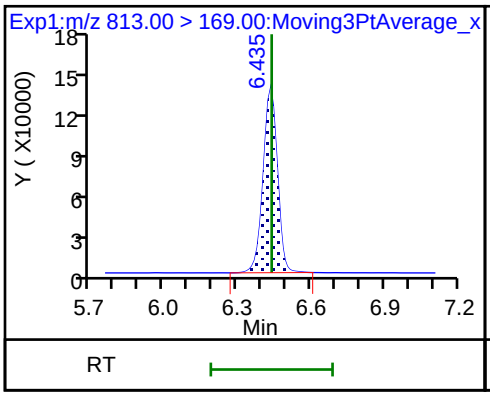
D 64 13C2 PFHxDA



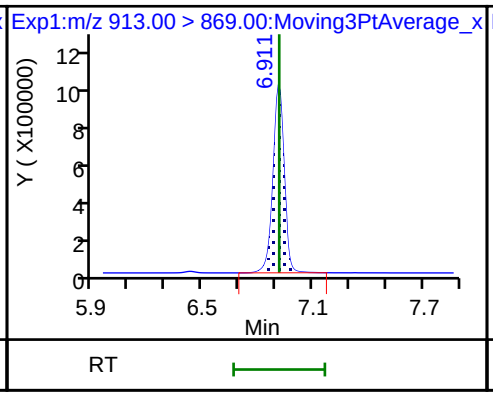
63 Perfluorohexadecanoic acid



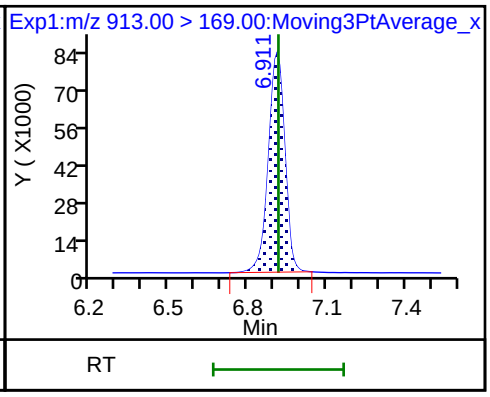
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

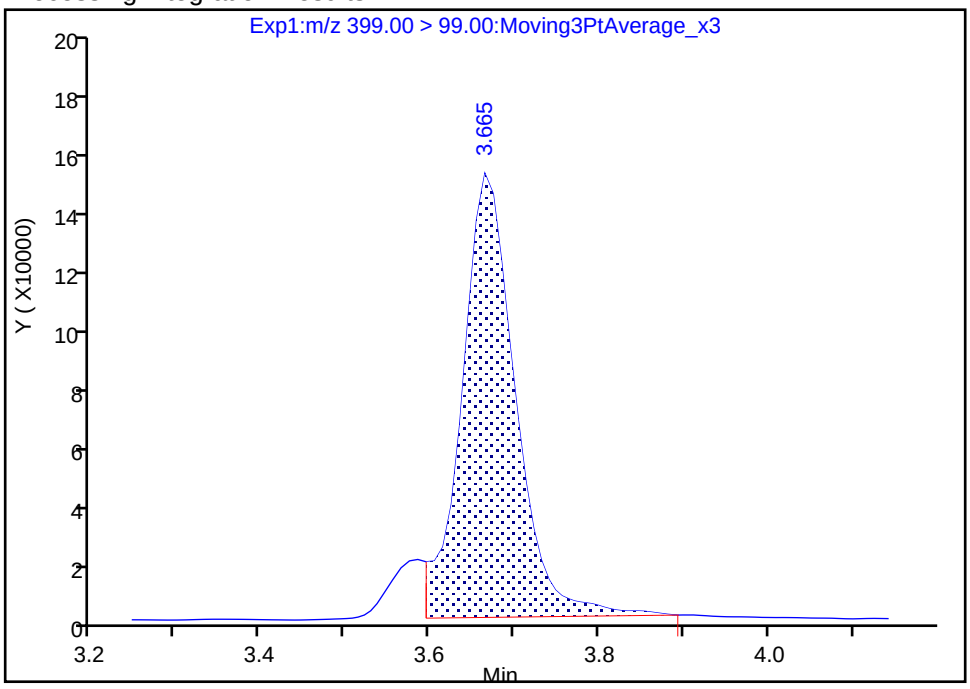
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_007.d
Injection Date: 08-Sep-2020 18:30:01 Instrument ID: A13
Lims ID: IC STD 4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

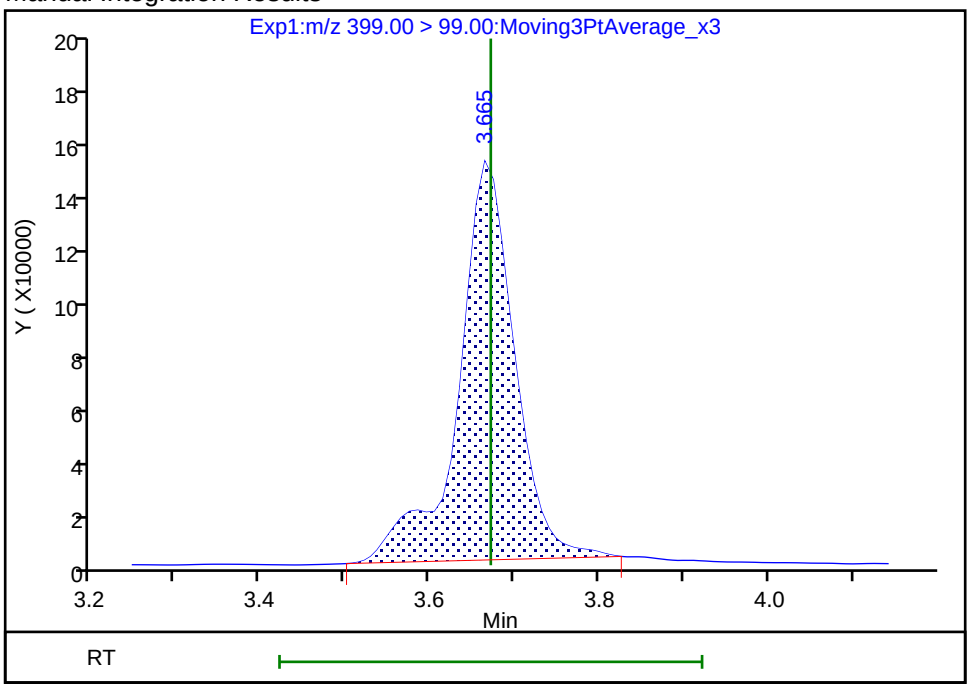
Processing Integration Results

RT: 3.66
Area: 662358
Amount: 0.910000
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 696370
Amount: 0.905877
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 08:57:39
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

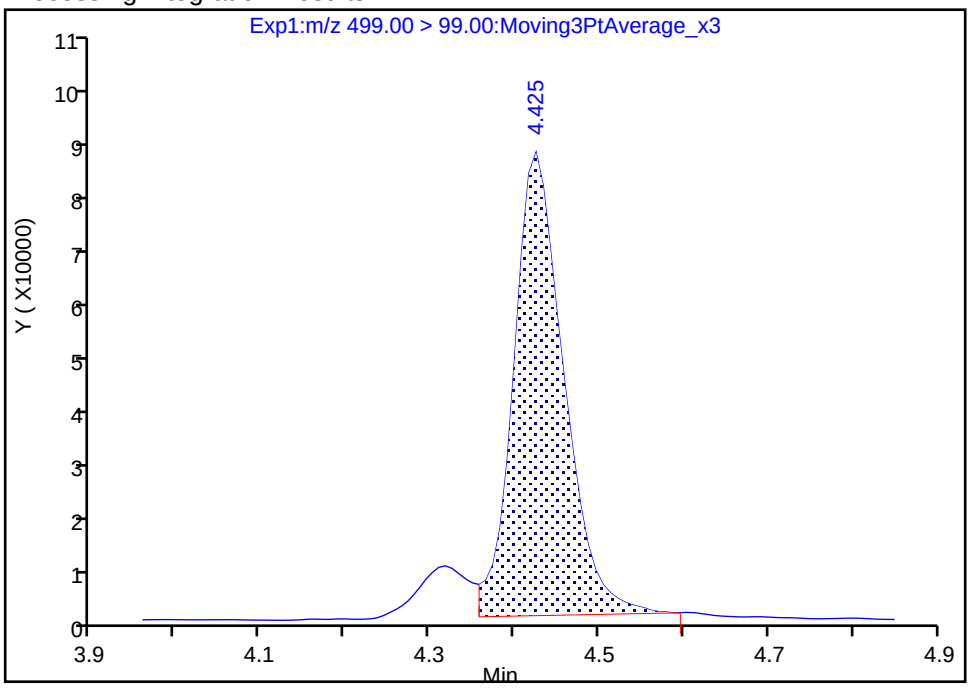
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_007.d
Injection Date: 08-Sep-2020 18:30:01 Instrument ID: A13
Lims ID: IC STD 4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

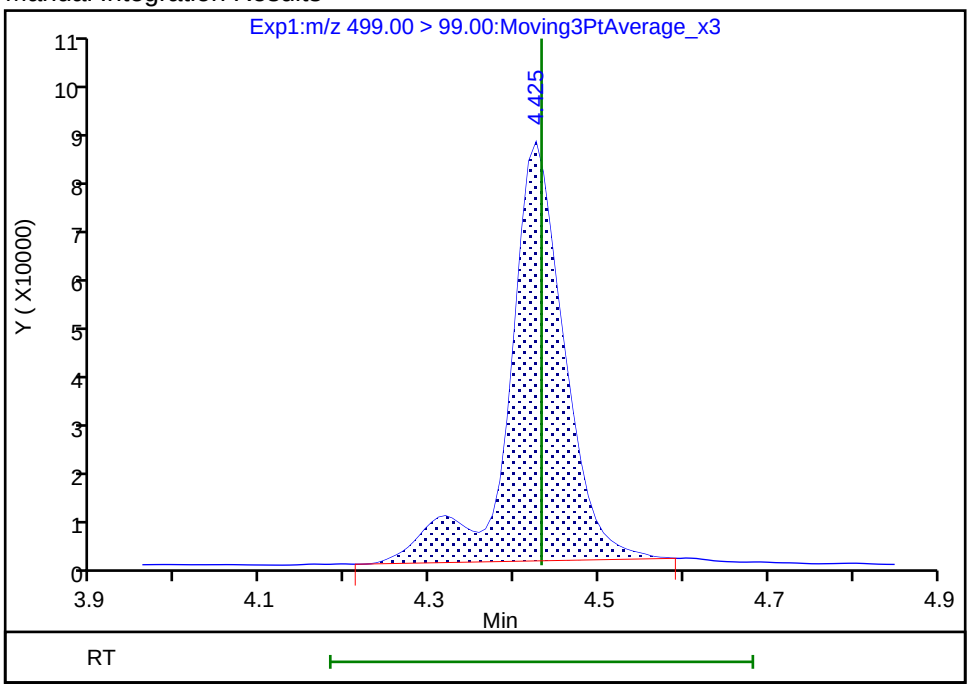
Processing Integration Results

RT: 4.43
Area: 357686
Amount: 0.928000
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 397889
Amount: 1.014716
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 08:57:51
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_008.d
Lims ID: IC STD 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Sep-2020 18:39:25 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 5 (31)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:22:16 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 09:33:08
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.477	-0.002	0.608	9013235	2.54		102	26573	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.482	2.480	0.002	1.003	7550897	2.82		113	3035	
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.873	0.005	0.708	6876235	2.49		99.5	23645	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.875	0.003	1.000	7398690	2.62		105	1425	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.716	8431444	2.43		105	19934	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	8694694	2.45	Target=2.18	111	11250	
298.90 > 99.00	2.913	2.913	0.0	1.000	4002675		2.17(1.09-3.26)	111	2388	
7 4:2 FTS										
327.00 > 307.00	3.215	3.221	-0.006	0.997	7222435	2.76		118	15219	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.226	3.222	0.004	0.793	1885203	2.22		95.0	1022	
D 9 13C2 PFHxA										
315.00 > 270.00	3.258	3.264	-0.006	0.801	8721278	2.55		102	34042	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.265	0.003	1.003	8293337	2.56	Target=11.68	102	1465	
313.00 > 119.00	3.258	3.265	-0.007	1.000	703192		11.79(5.84-17.52)	102	241	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	7357818	2.57	Target=2.56	110	12879	
349.00 > 99.00	3.279	3.279	0.0	1.126	2900744		2.54(1.28-3.84)	110	3796	
12 HPFO-DA										
285.00 > 169.00	3.388	3.386	0.002	1.000	2018411	2.74		109	1515	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.386	0.002	0.833	6204174	2.54		101	4157	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.665	3.670	-0.005	1.000	9256124	2.64	Target=3.85	106	1408	
363.00 > 169.00	3.665	3.670	-0.005	1.000	2406618		3.85(1.92-5.77)	106	1115	
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.668	-0.003	0.901	8658843	2.58		103	5748	
D 17 18O2 PFHxS										
403.00 > 84.00	3.675	3.672	0.003	0.904	5460626	2.40		102	3906	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.675	3.672	0.003	1.000	5884181	2.29	Target=3.25	101	383	
399.00 > 99.00	3.675	3.672	0.003	1.000	1787989		3.29(1.62-4.87)	101	183	M
19 DONA										
377.00 > 251.00	3.713	3.719	-0.006	0.839	22665425	2.67	Target=2.76	113	12196	
377.00 > 85.00	3.713	3.719	-0.006	0.839	8178266		2.77(1.38-4.14)	113	4889	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.043	-0.001	0.994	2407481	2.46		103	3041	
21 6:2 FTS										
427.00 > 407.00	4.042	4.043	-0.001	1.000	5956664	2.44		103	2518	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.059	4.056	0.003	0.917	4972809	2.64	Target=4.29	111	10076	
449.00 > 99.00	4.059	4.056	0.003	0.917	1115147		4.46(2.15-6.44)	111	473	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.058	0.001	0.998	8920434	2.40		98.1	7487	
* 25 13C2 PFOA										
415.00 > 370.00	4.067	4.065	0.002		10428958	2.50			15743	
D 24 13C4 PFOA										
417.00 > 372.00	4.067	4.065	0.002	1.000	10403846	2.53		101	6067	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.066	0.001	1.000	11036141	2.59	Target=2.95	104	2771	
413.00 > 169.00	4.067	4.066	0.001	1.000	3688804		2.99(1.47-4.42)	104	1846	
$ 27 13C8 PFOS										
507.00 > 99.00	4.426	4.426	0.0	1.088	2066897	2.39		99.9	1345	
D 29 13C4 PFOS										
503.00 > 80.00	4.426	4.429	-0.003	1.088	3951981	2.44		102	3570	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.435	4.432	0.003	1.002	4198333	2.45	Target=4.28	105	990	
499.00 > 99.00	4.426	4.432	-0.006	1.000	988852		4.25(2.14-6.41)	105	244	M
D 31 13C5 PFNA										
468.00 > 423.00	4.443	4.448	-0.005	1.092	9904240	2.61		104	10228	
30 Perfluorononanoic acid										
463.00 > 419.00	4.452	4.449	0.003	1.002	10113220	2.69	Target=8.00	107	2498	
463.00 > 169.00	4.452	4.449	0.003	1.002	1298629		7.79(4.00-12.01)	107	1536	
32 9ClFOS										
531.00 > 351.00	4.629	4.632	-0.003	1.046	10540021	2.55		109	10342	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.738	-0.004	1.164	6077423	2.61		104	6282	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.743	4.739	0.004	1.002	5893720	2.58		103	5173	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.777	4.781	-0.004	1.079	3374107	2.63	Target=2.15	110	8210	
549.00 > 99.00	4.777	4.781	-0.004	1.079	1567245		2.15(1.08-3.23)	110	1379	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.804	4.808	-0.004	1.000	11249076	2.63	Target=10.44	105	3912	
513.00 > 169.00	4.804	4.808	-0.004	1.000	1038148		10.84(5.22-15.65)	105	352	
D 37 13C2 PFDA										
515.00 > 470.00	4.804	4.808	-0.004	1.181	11937334	2.60		104	41304	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.810	0.003	1.183	3196689	2.47		103	5017	
39 8:2 FTS										
527.00 > 507.00	4.813	4.810	0.003	1.000	8559688	2.59		108	6821	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.971	4.972	-0.001	1.222	6048740	2.55		102	6069	
41 NMeFOSAA										
570.00 > 419.00	4.980	4.978	0.002	1.002	5100889	2.62		105	424	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.106	5.103	0.003	1.154	2838619	2.61	Target=2.36	108	3575	
599.00 > 99.00	5.106	5.103	0.003	1.154	1203758		2.36(1.18-3.54)	108	1279	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.135	5.132	0.003	1.000	8106772	2.63	Target=8.67	105	2020	
563.00 > 169.00	5.135	5.132	0.003	1.000	935818		8.66(4.34-13.01)	105	1657	
D 44 13C2 PFUnA										
565.00 > 520.00	5.135	5.132	0.003	1.262	11664379	2.59		104	7866	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.135	5.139	-0.004	1.262	5742065	2.50		100	5241	
48 NEtFOSA										
584.00 > 419.00	5.144	5.148	-0.004	1.002	4644784	2.61		104	1422	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.183	5.182	0.001	1.274	7385364	12.7		101	2229	
47 N-MeFOSE-M										
616.00 > 59.00	5.193	5.195	-0.002	1.002	1778047	2.83		113	2233	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	-0.001	1.280	2757873	2.52		101	52.0	
50 NMeFOSA										
512.00 > 169.00	5.216	5.213	0.003	1.002	3114938	2.87		115	271	
51 11ClFOS										
631.00 > 451.00	5.269	5.271	-0.002	1.190	19692127	2.76		117	4961	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.354	5.352	0.002	1.316	8851823	12.9		104	3469	
53 N-EtFOSE-M										
630.00 > 59.00	5.363	5.366	-0.003	1.002	1913658	2.61		104	1911	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.380	5.379	0.001	1.323	2669751	2.55		102	190	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.388	5.386	0.002	1.002	3136862	2.77		111	230	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.429	5.428	0.001	1.000	11677975	2.54	Target=9.05	101	3851	
613.00 > 169.00	5.429	5.428	0.001	1.000	1356282		8.61(4.52-13.57)	101	2502	
D 56 13C2 PFDoA										
615.00 > 570.00	5.429	5.428	0.001	1.335	12620498	2.61		104	6903	
58 10:2 FTS										
627.00 > 607.00	5.446	5.445	0.001	1.132	5731243	2.63		109	3398	
59 PFDoS										
699.00 > 80.00	5.663	5.665	-0.002	1.279	1093416	2.57	Target=0.57	106	1792	
699.00 > 99.00	5.663	5.665	-0.002	1.279	1874304		0.58(0.29-0.86)	106	3121	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.703	5.704	-0.001	1.050	12833545	2.71	Target=7.06	108	10802	
663.00 > 169.00	5.703	5.704	-0.001	1.050	1893728		6.78(3.53-10.59)	108	2421	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.958	5.954	0.004	1.001	12795824	2.67	Target=11.23	107	6276	
713.00 > 219.00	5.950	5.954	-0.004	1.000	1126945		11.35(5.62-16.85)	107	4084	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.950	5.953	-0.003	1.463	12193198	2.55		102	21415	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.437	-0.002	1.582	13292918	2.67		107	9560	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.435	6.439	-0.004	1.000	12612258	2.47	Target=9.45	98.7	2171	
813.00 > 169.00	6.435	6.439	-0.004	1.000	1223034		10.31(4.72-14.17)	98.7	3093	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.912	6.915	-0.003	1.074	10217750	2.63	Target=11.13	105	3189	
913.00 > 169.00	6.912	6.915	-0.003	1.074	943924		10.82(5.56-16.69)	105	2040	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL5_00031 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:22:20 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_008.d

Injection Date: 08-Sep-2020 18:39:25 Instrument ID: A13

Lims ID: IC STD 5

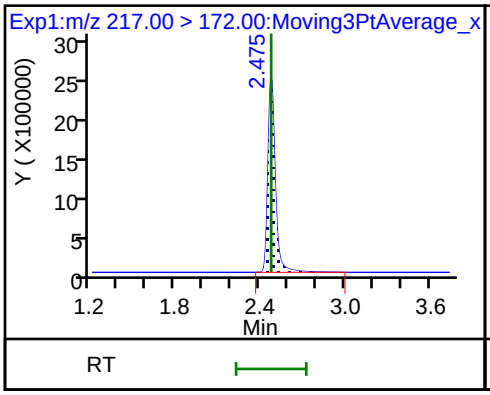
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 5 Worklist Smp#: 6

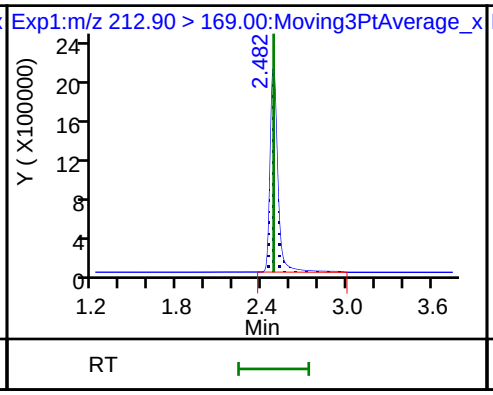
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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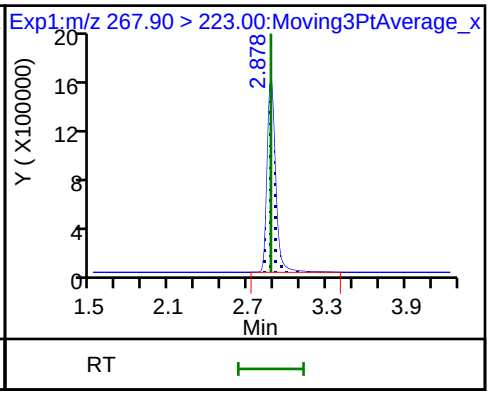

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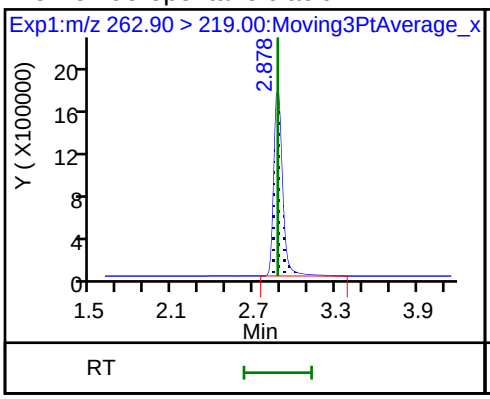

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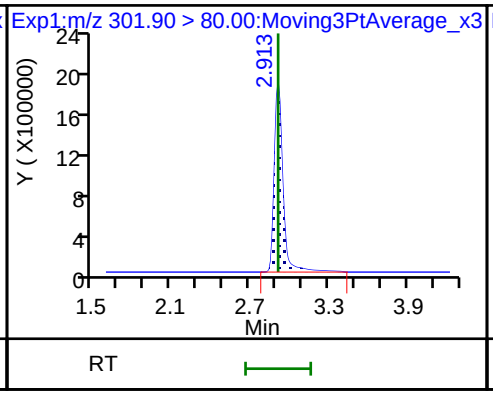
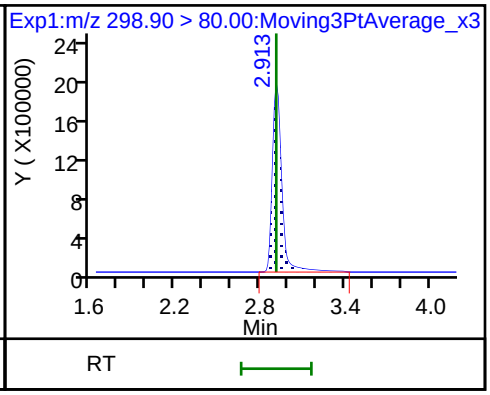
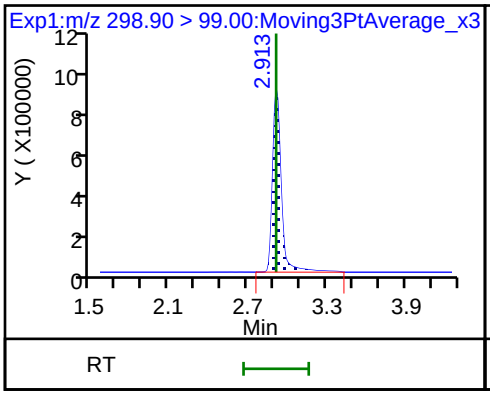


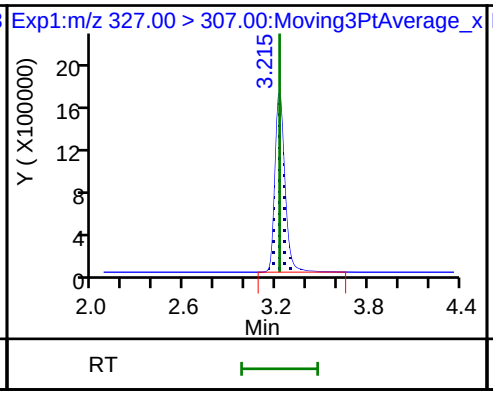
6 Perfluorobutanesulfonic acid



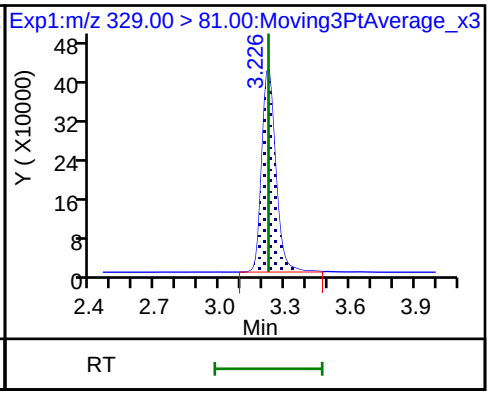
6 Perfluorobutanesulfonic acid



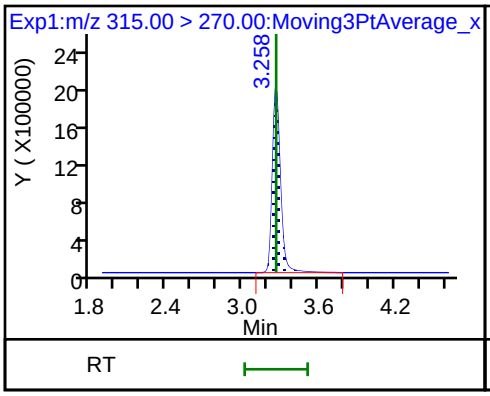
7 4:2 FTS



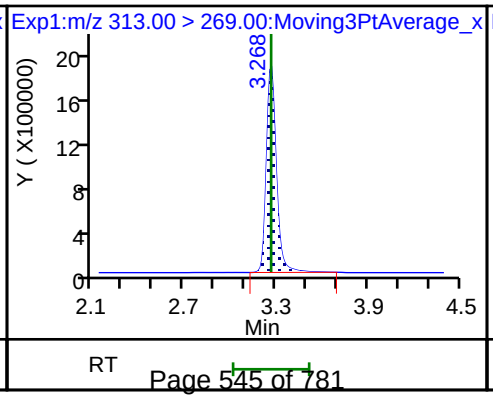
D 8 M2-4:2 FTS



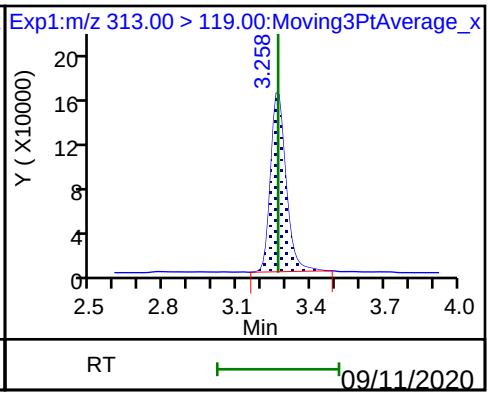
D 9 13C2 PFHxA



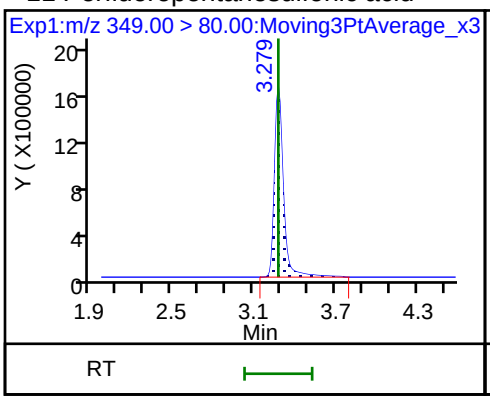
10 Perfluorohexanoic acid



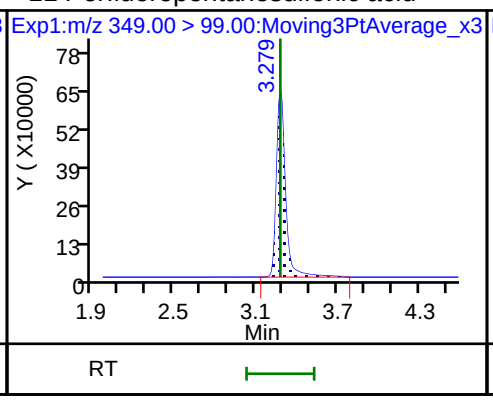
10 Perfluorohexanoic acid



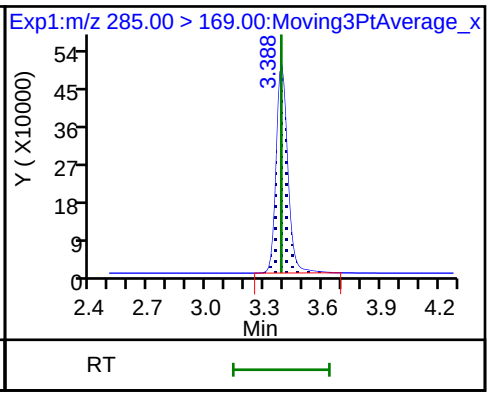
11 Perfluoropentanesulfonic acid



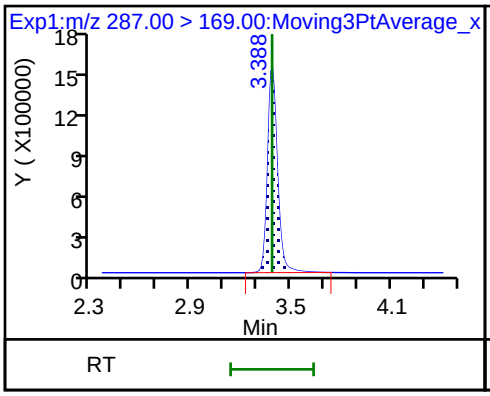
11 Perfluoropentanesulfonic acid



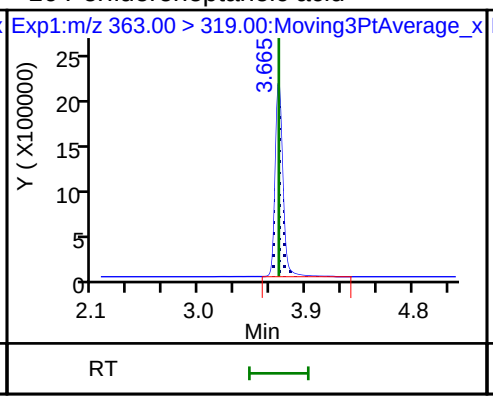
12 HPFO-DA



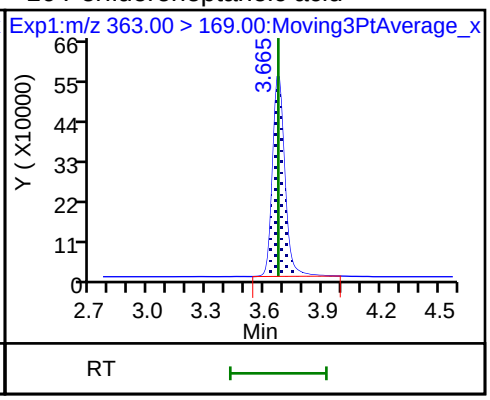
D 13 13C3 HFPO-DA



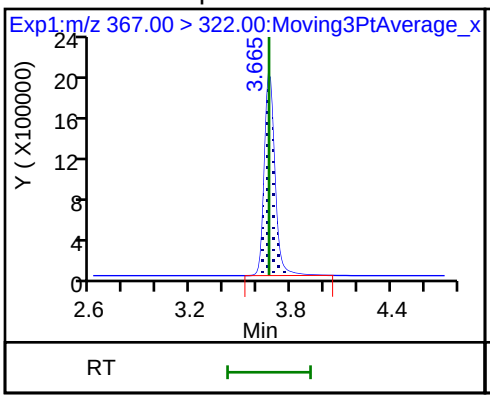
16 Perfluoroheptanoic acid



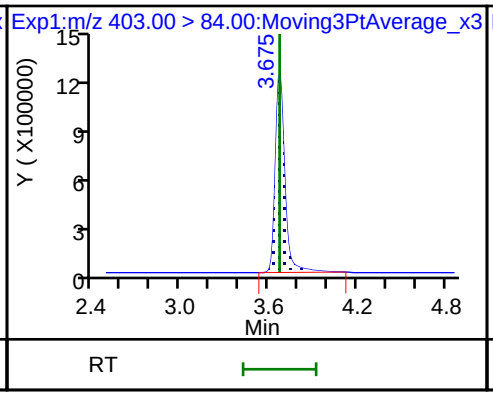
16 Perfluoroheptanoic acid



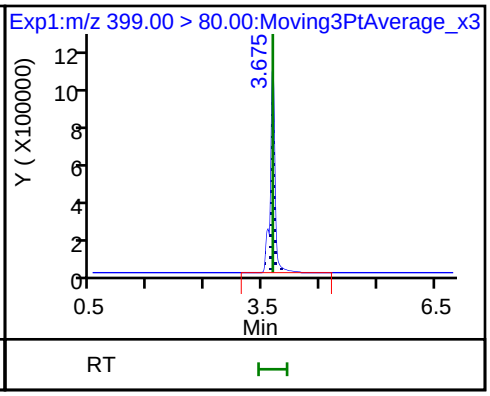
D 15 13C4 PFHpA



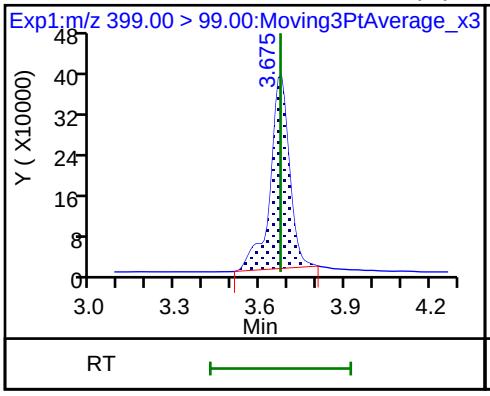
D 17 18O2 PFHxS



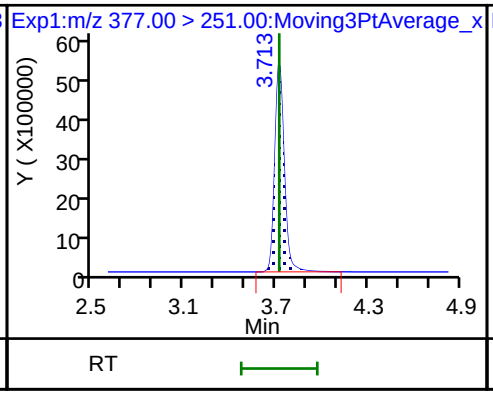
18 Perfluorohexanesulfonic acid



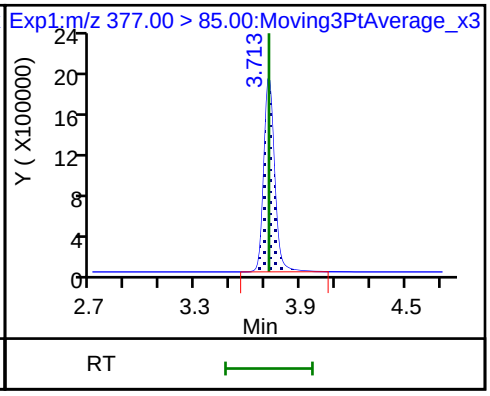
18 Perfluorohexanesulfonic acid (M)



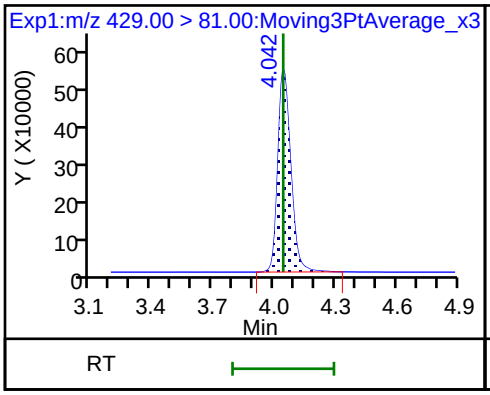
19 DONA



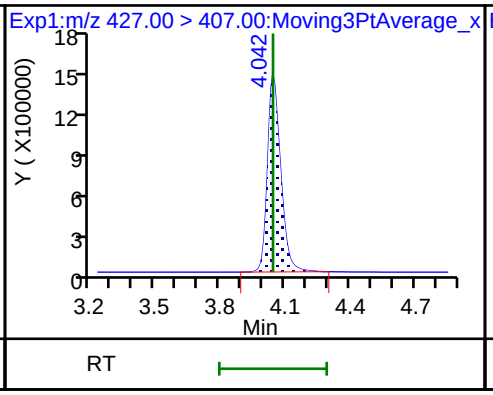
19 DONA



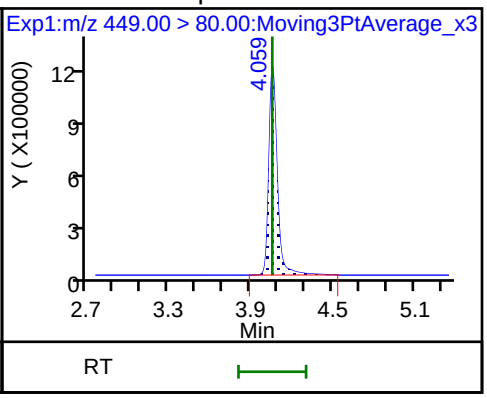
D 20 M2-6:2 FTS



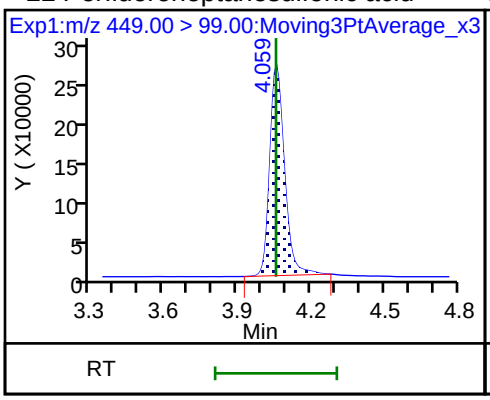
21 6:2 FTS



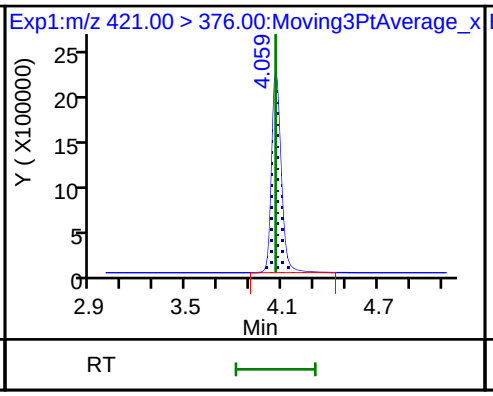
22 Perfluoroheptanesulfonic acid



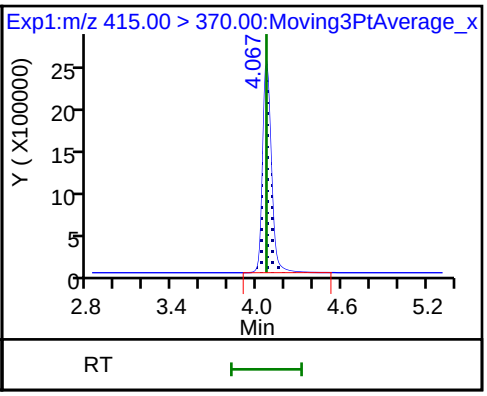
22 Perfluoroheptanesulfonic acid



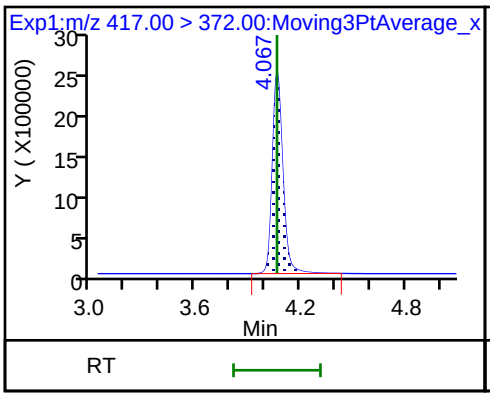
$ 23 13C8 PFOA



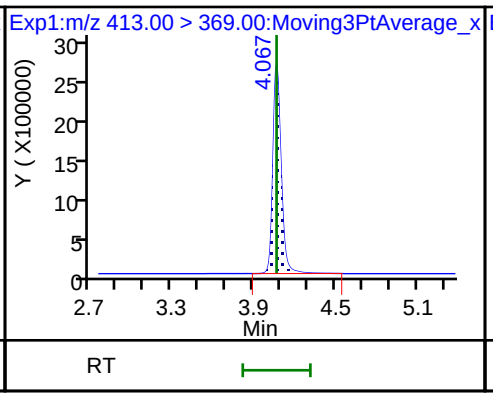
* 25 13C2 PFOA



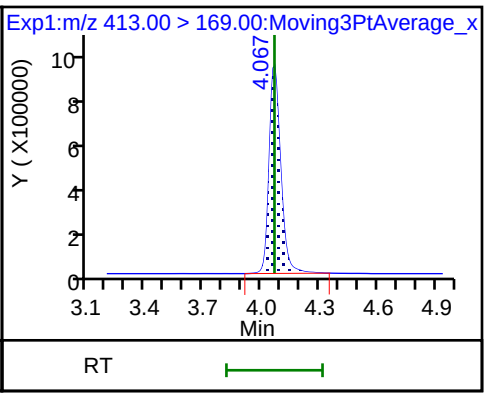
D 24 13C4 PFOA



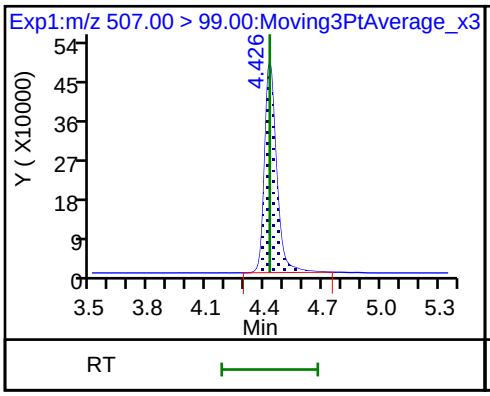
26 Perfluorooctanoic acid



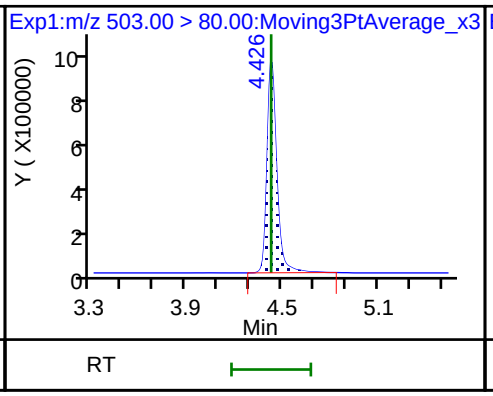
26 Perfluorooctanoic acid



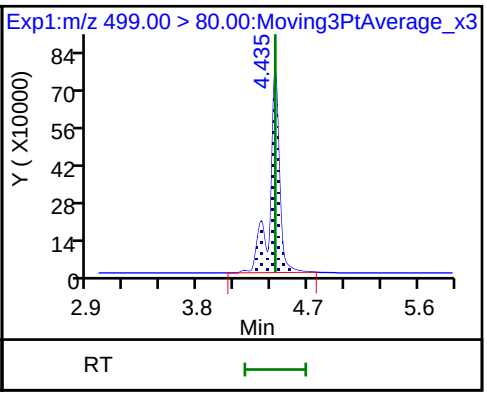
$ 27 13C8 PFOS



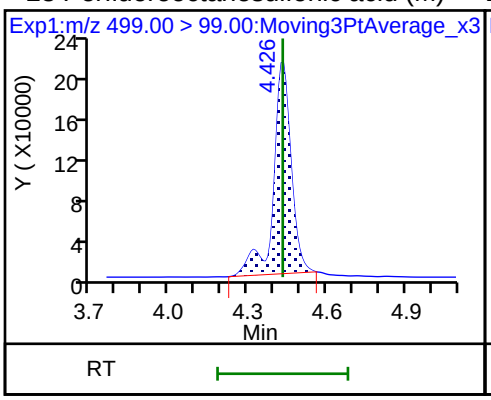
D 29 13C4 PFOS



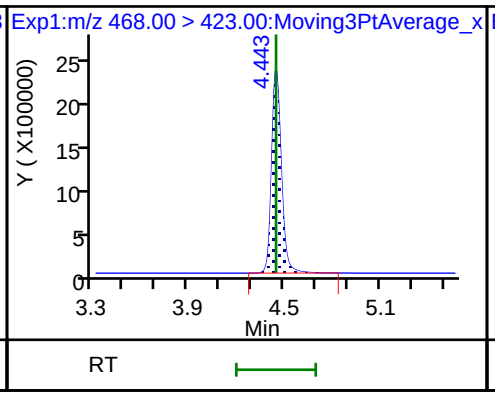
28 Perfluorooctanesulfonic acid



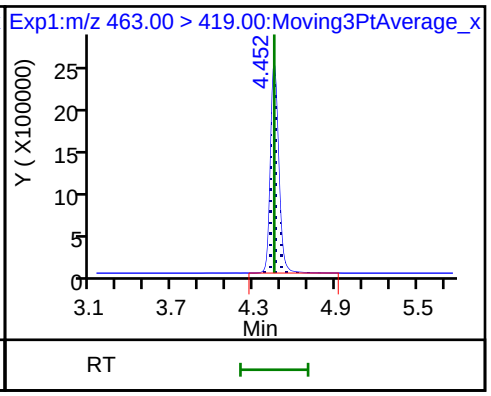
28 Perfluorooctanesulfonic acid (M)



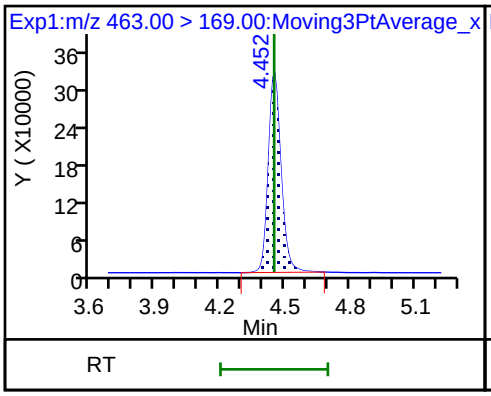
D 31 13C5 PFNA



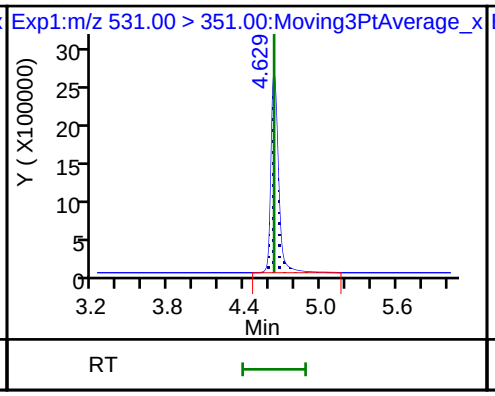
30 Perfluorononanoic acid



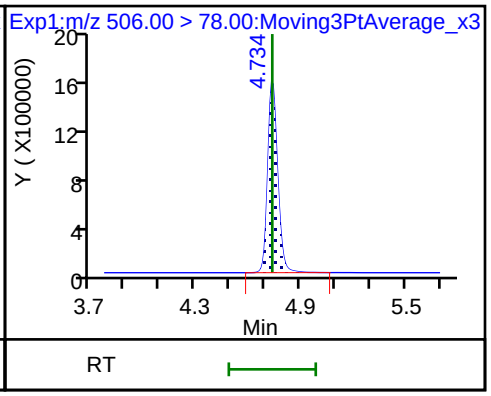
30 Perfluorononanoic acid



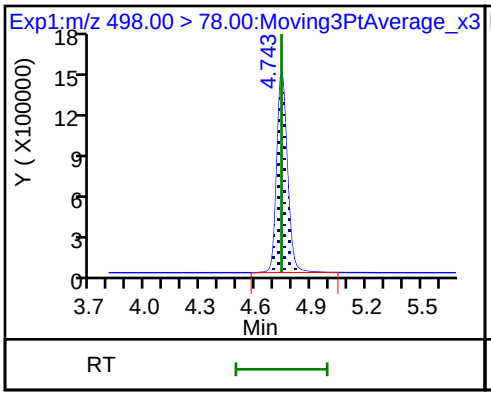
32 9ClFOS



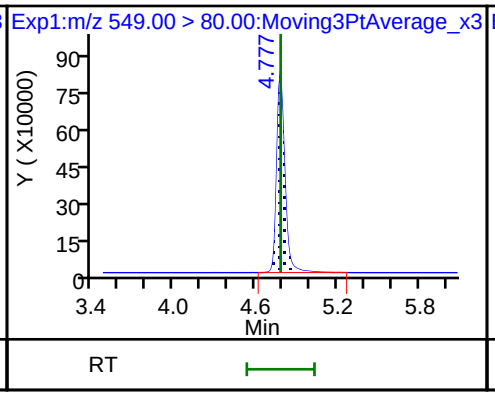
D 34 13C8 FOSA



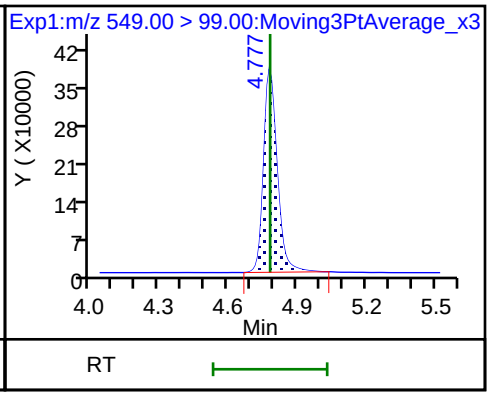
33 Perfluorooctanesulfonamide



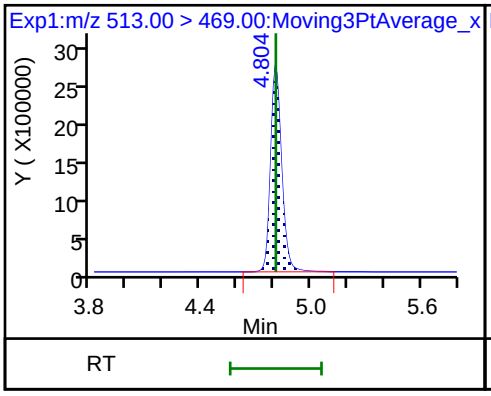
35 Perfluorononanesulfonic acid



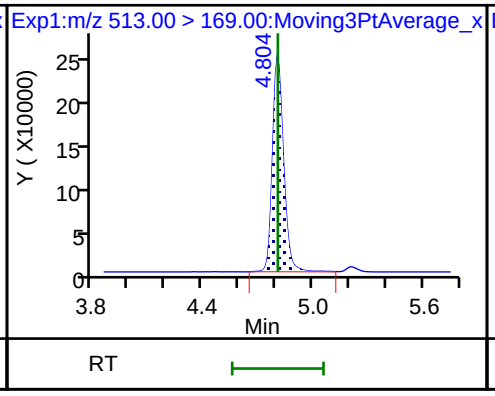
35 Perfluorononanesulfonic acid



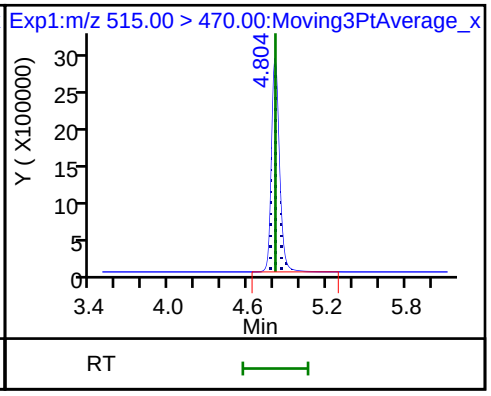
36 Perfluorodecanoic acid



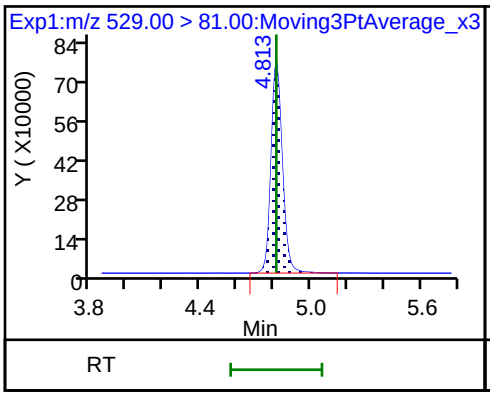
36 Perfluorodecanoic acid



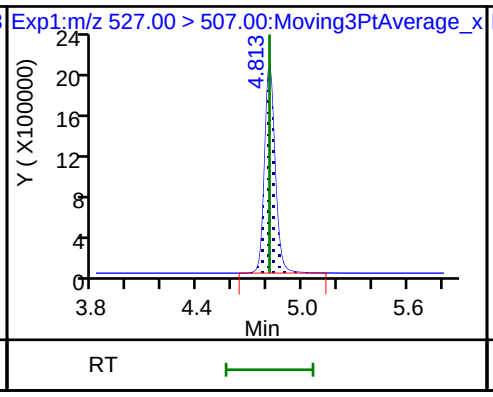
D 37 13C2 PFDA



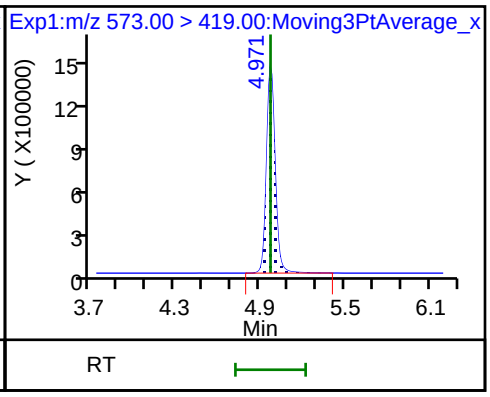
D 38 M2-8:2 FTS



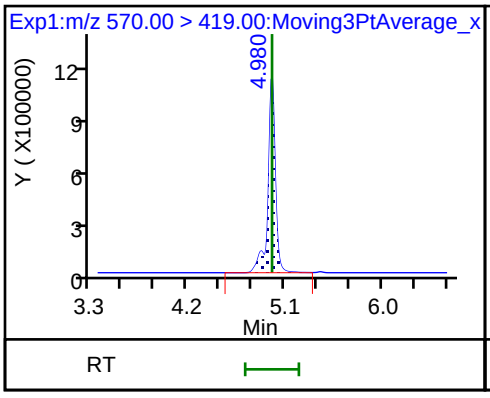
39 8:2 FTS



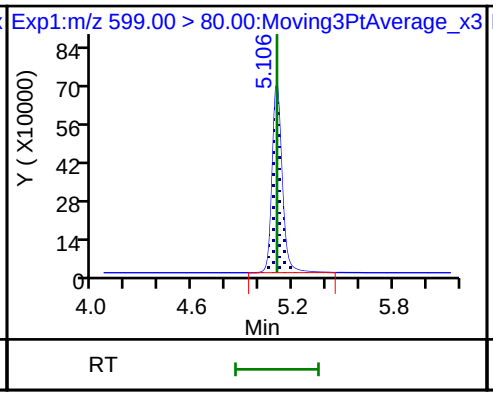
D 40 d3-NMeFOSAA



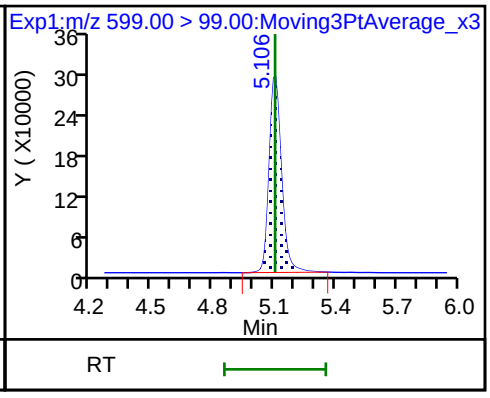
41 NMeFOSAA



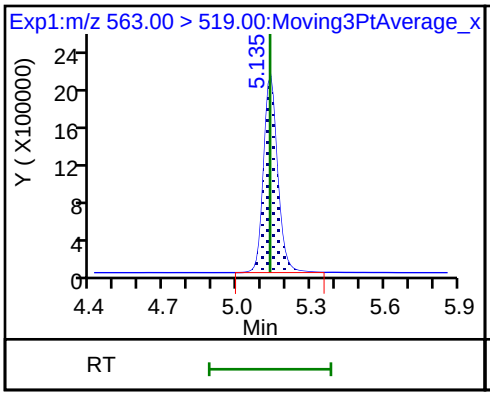
42 Perfluorodecanesulfonic acid



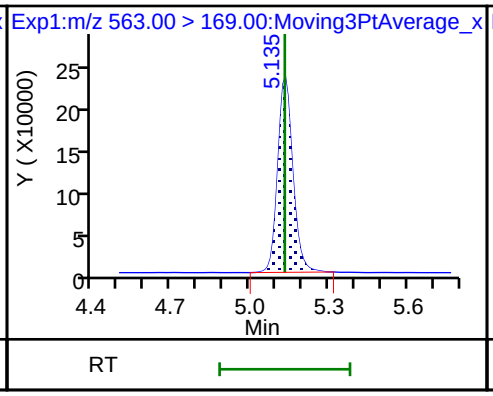
42 Perfluorodecanesulfonic acid



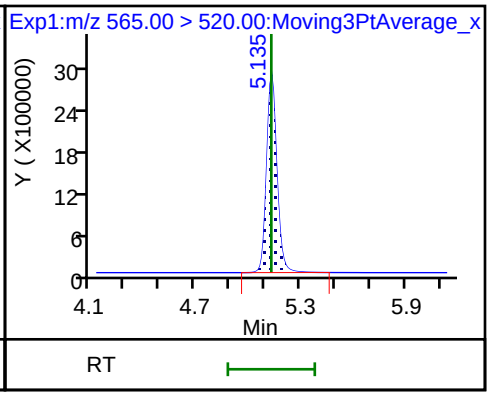
45 Perfluoroundecanoic acid



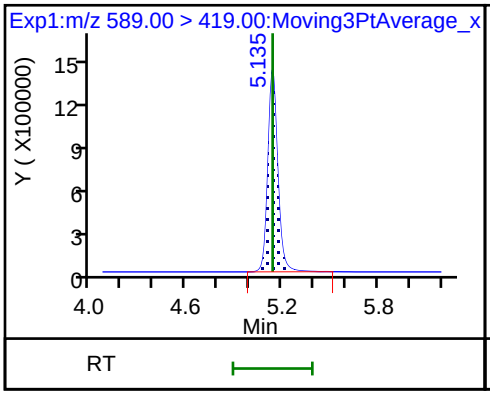
45 Perfluoroundecanoic acid



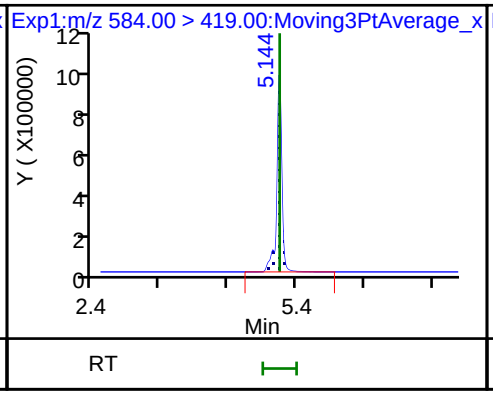
D 44 13C2 PFUnA



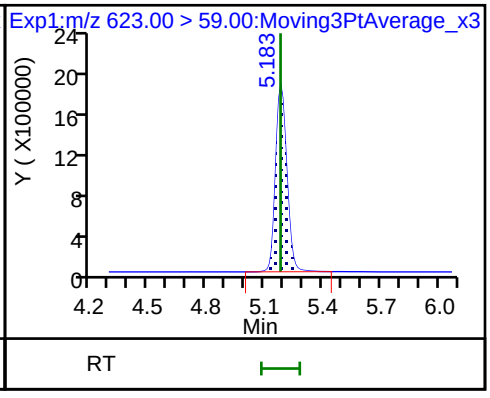
D 46 d5-NEtFOSAA



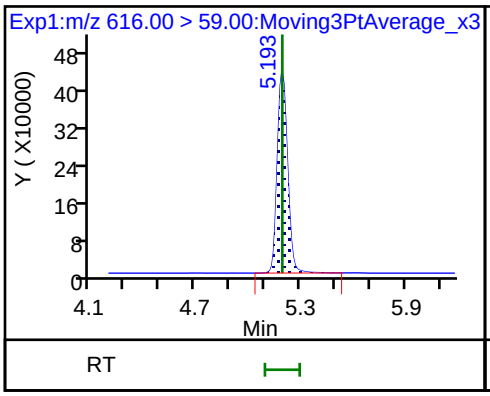
48 NEtFOSA



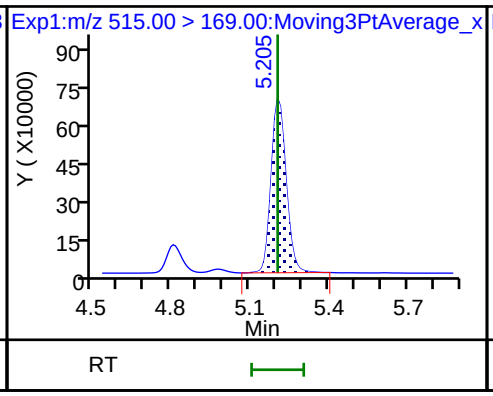
D 43 d7-N-MeFOSE-M



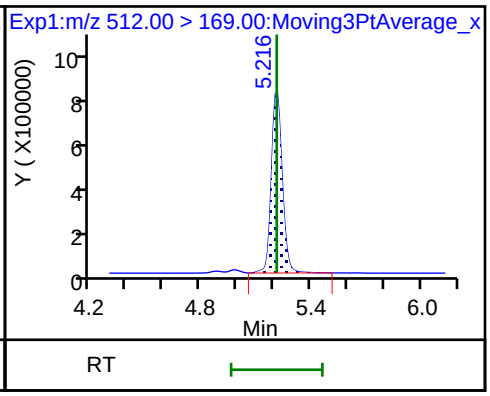
47 N-MeFOSE-M



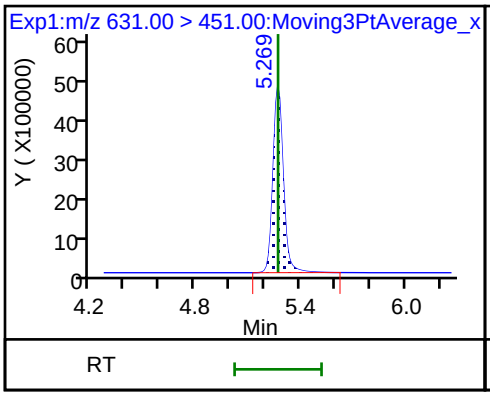
D 49 d-N-MeFOSA-M



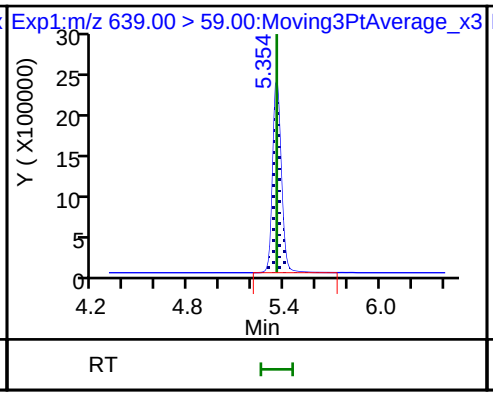
50 NMeFOSA



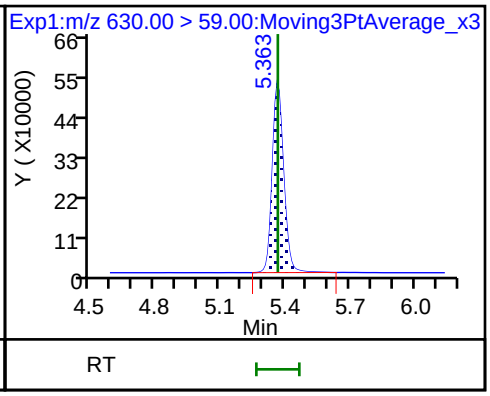
51 11ClFOS



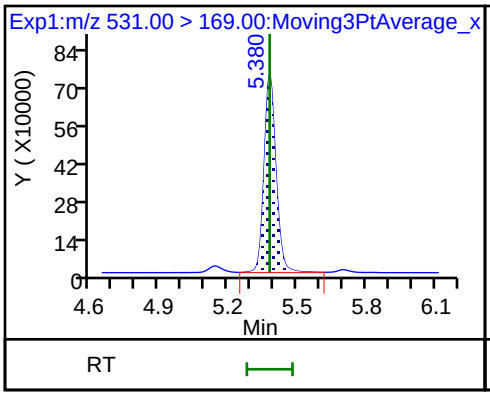
D 52 d9-N-EtFOSE-M



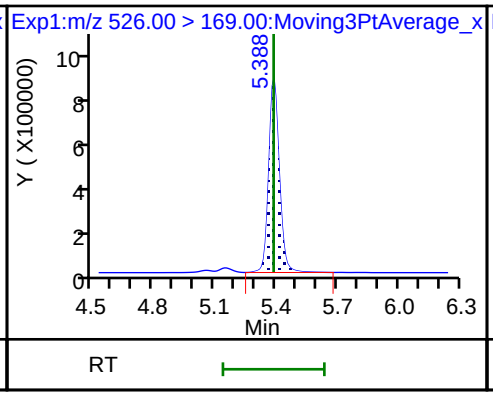
53 N-EtFOSE-M



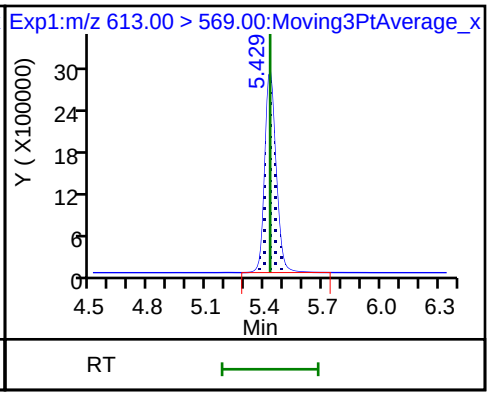
D 54 d-N-EtFOSA-M



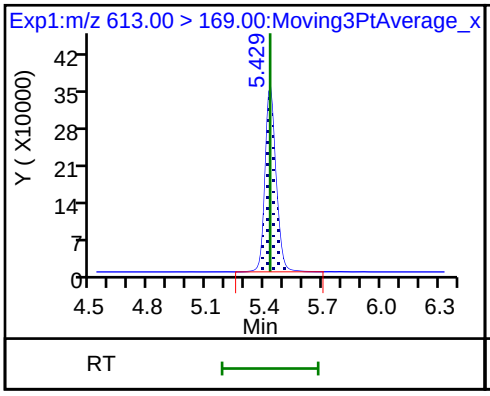
55 N-EtFOSA-M



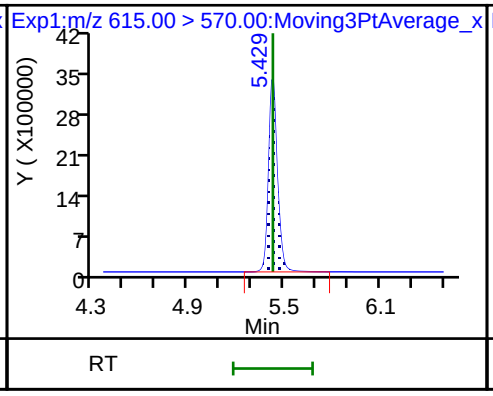
57 Perfluorododecanoic acid



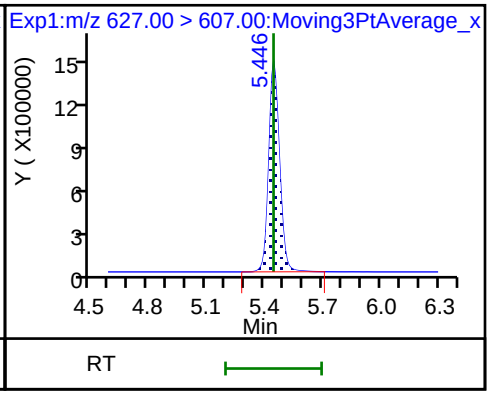
57 Perfluorododecanoic acid



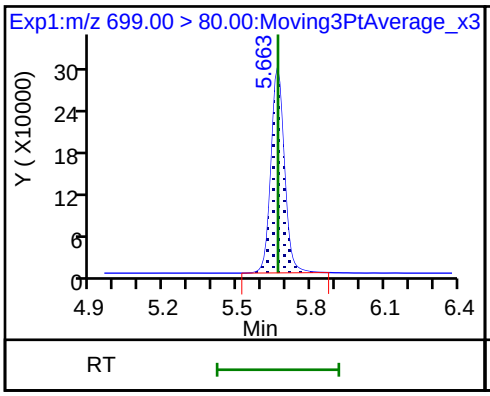
D 56 13C2 PFDoA



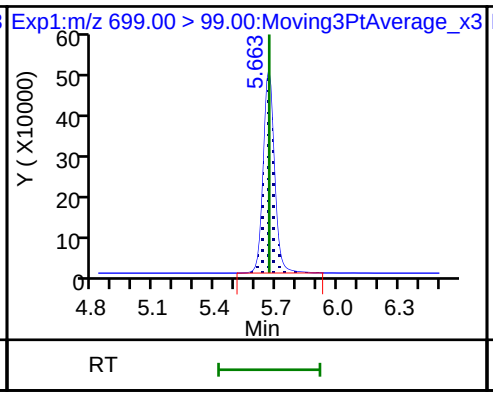
58 10:2 FTS



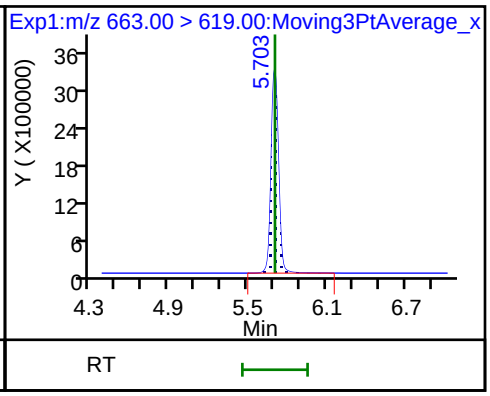
59 PFDoS



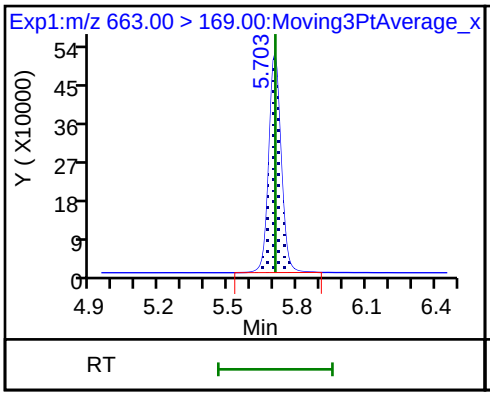
59 PFDoS



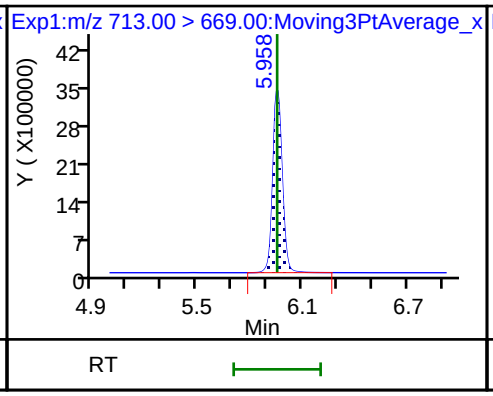
60 Perfluorotridecanoic acid



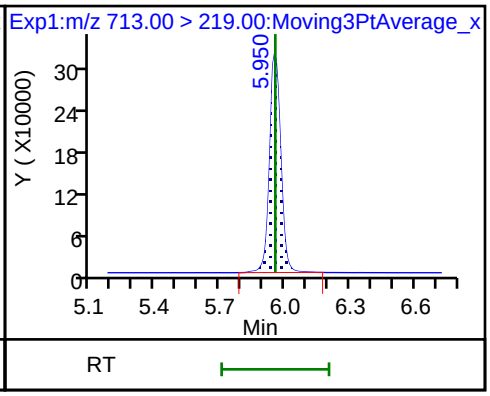
60 Perfluorotridecanoic acid



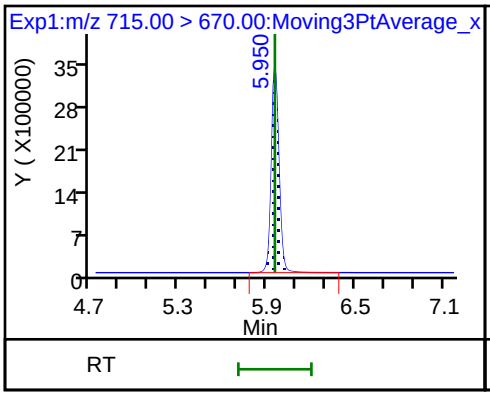
62 Perfluorotetradecanoic acid



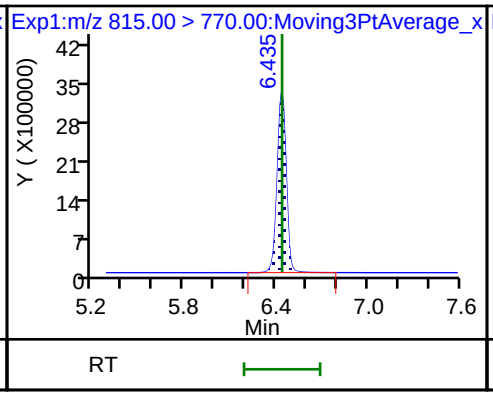
62 Perfluorotetradecanoic acid



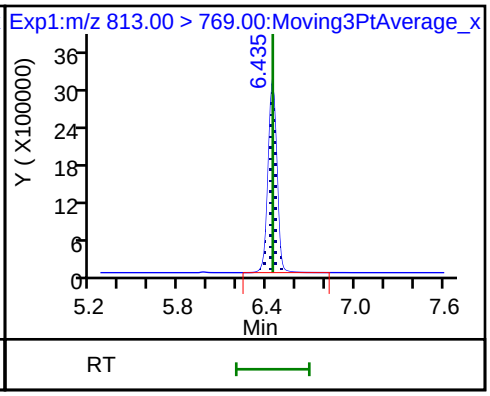
D 61 13C2 PFTeDA



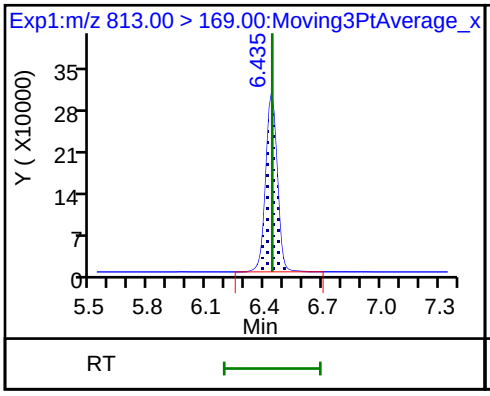
D 64 13C2 PFHxDA



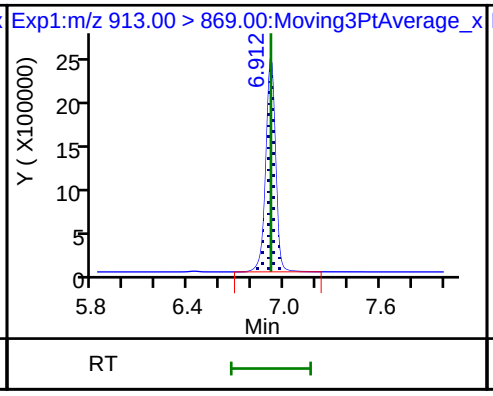
63 Perfluorohexadecanoic acid



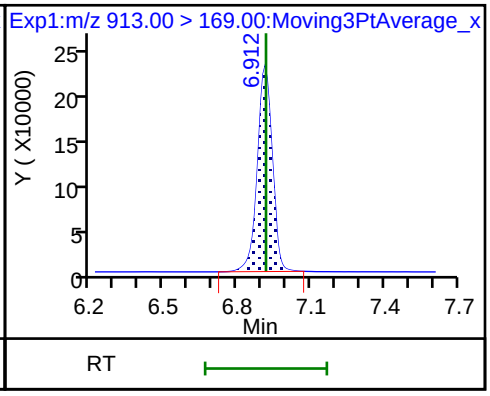
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

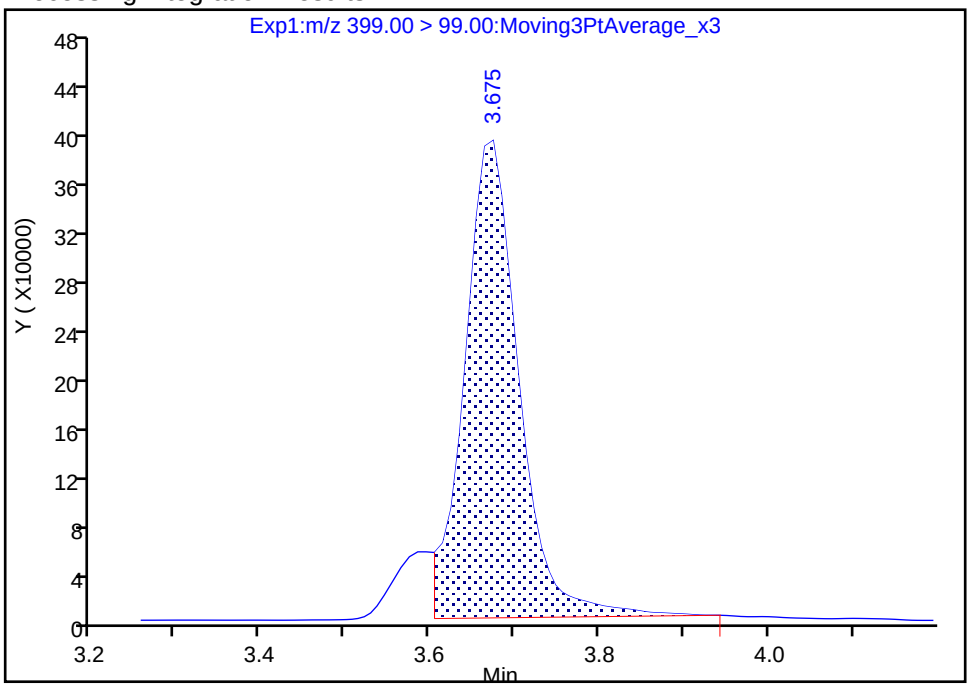
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_008.d
Injection Date: 08-Sep-2020 18:39:25 Instrument ID: A13
Lims ID: IC STD 5
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

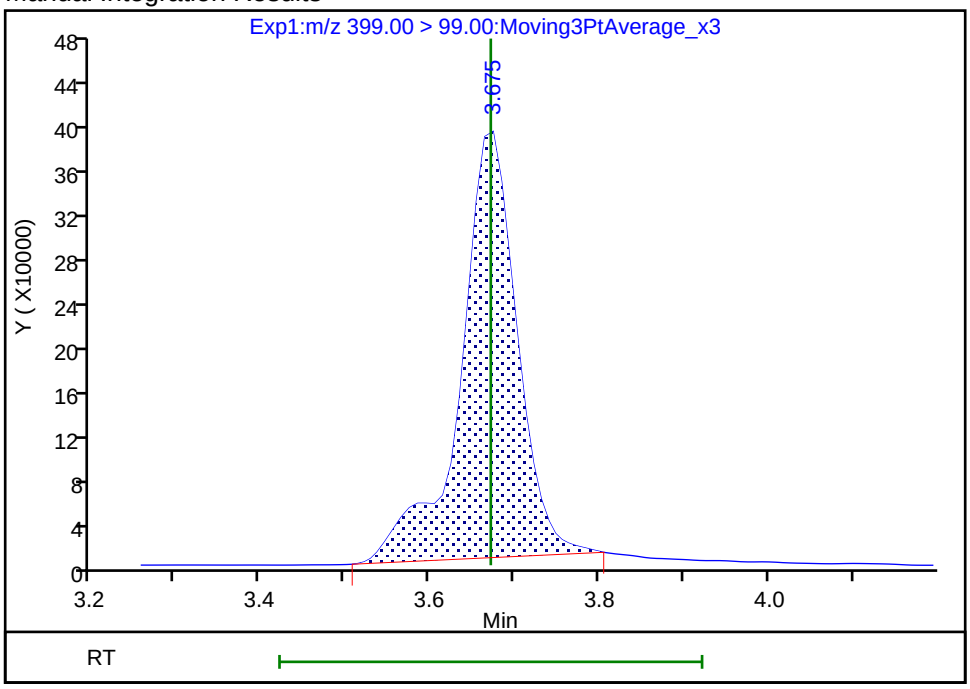
Processing Integration Results

RT: 3.67
Area: 1718164
Amount: 2.291059
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 1787989
Amount: 2.291059
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:32:19
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

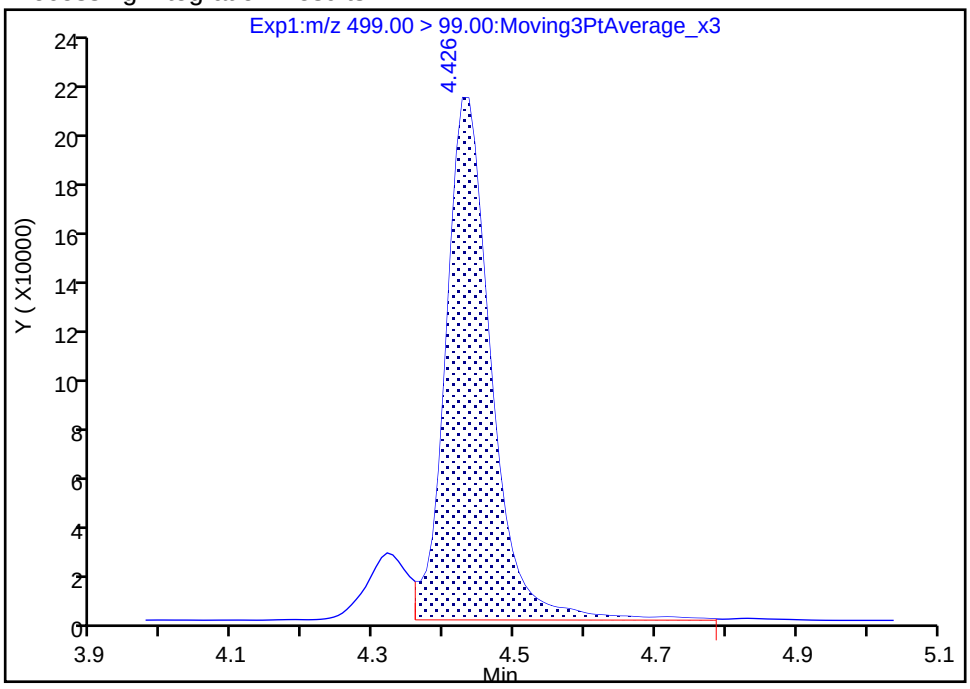
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_008.d
Injection Date: 08-Sep-2020 18:39:25 Instrument ID: A13
Lims ID: IC STD 5
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

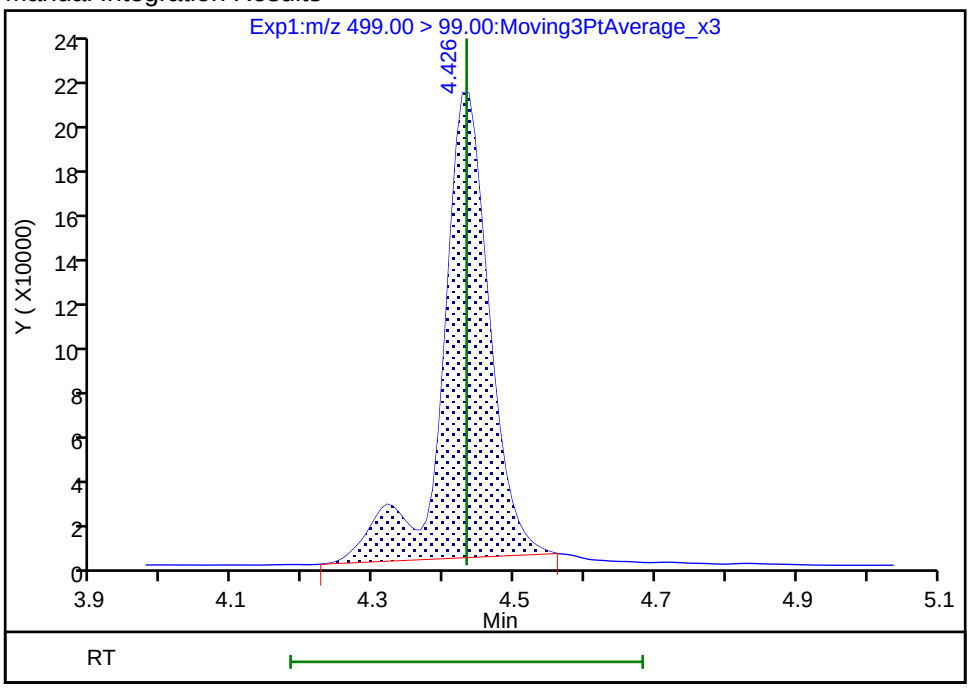
Processing Integration Results

RT: 4.43
Area: 958729
Amount: 2.445279
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 988852
Amount: 2.445279
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:32:34
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_009.d
Lims ID: IC STD 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Sep-2020 18:48:50 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 6 (25)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:22:26 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 09:34:20
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.477	-0.002	0.610	9342061	2.49		99.7	29170	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.480	-0.005	1.000	14438781	5.20		104	6298	
D 4 13C5 PFPeA										
267.90 > 223.00	2.867	2.873	-0.006	0.706	7255234	2.48		99.3	19791	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.875	-0.008	1.000	14138743	4.74		94.8	2722	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.718	8553899	2.33		100	19850	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	16640464	4.63	Target=2.18	105	23960	
298.90 > 99.00	2.913	2.913	0.0	1.000	7793957		2.14(1.09-3.26)	105	4818	
7 4:2 FTS										
327.00 > 307.00	3.215	3.221	-0.006	1.000	13032064	4.80		103	69387	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.215	3.222	-0.007	0.792	1955076	2.18		93.2	1127	
D 9 13C2 PFHxA										
315.00 > 270.00	3.258	3.264	-0.006	0.803	8823741	2.45		97.8	35781	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.258	3.265	-0.007	1.000	16468853	5.02	Target=11.68	100	3400	
313.00 > 119.00	3.258	3.265	-0.007	1.000	1333217		12.35(5.84-17.52)	100	387	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	14078526	4.85	Target=2.56	103	27670	
349.00 > 99.00	3.279	3.279	0.0	1.126	5673613		2.48(1.28-3.84)	103	10296	
12 HPFO-DA										
285.00 > 169.00	3.380	3.386	-0.006	1.000	4031168	5.15		103	2544	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.380	3.386	-0.006	0.833	6588356	2.55		102	6163	
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.668	-0.003	0.903	8894028	2.50		100	15188	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.665	3.670	-0.005	1.000	18273603	5.08	Target=3.85	102	2975	
363.00 > 169.00	3.665	3.670	-0.005	1.000	4838244		3.78(1.92-5.77)	102	1660	
D 17 18O2 PFHxS										
403.00 > 84.00	3.665	3.672	-0.007	0.903	5630354	2.34		99.1	36905	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.665	3.672	-0.007	1.000	11584719	4.37	Target=3.25	96.1	368	
399.00 > 99.00	3.665	3.672	-0.007	1.000	3480916		3.33(1.62-4.87)	96.1	234	M
19 DONA										
377.00 > 251.00	3.714	3.719	-0.005	0.839	40309055	4.59	Target=2.76	97.5	78468	
377.00 > 85.00	3.714	3.719	-0.005	0.839	15535125		2.59(1.38-4.14)	97.5	55759	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.043	-0.001	0.996	2317416	2.24		94.2	3706	
21 6:2 FTS										
427.00 > 407.00	4.042	4.043	-0.001	1.000	10786932	4.59		96.9	30065	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.051	4.056	-0.005	0.915	9402297	4.83	Target=4.29	102	1921	
449.00 > 99.00	4.059	4.056	0.003	0.917	2298799		4.09(2.15-6.44)	102	2524	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.058	0.001	1.000	9963084	2.54		104	22821	
* 25 13C2 PFOA										
415.00 > 370.00	4.059	4.065	-0.006		11025683	2.50			6701	
D 24 13C4 PFOA										
417.00 > 372.00	4.059	4.065	-0.006	1.000	10797424	2.49		99.4	57301	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.066	0.001	1.002	20113180	4.55	Target=2.95	91.0	4493	
413.00 > 169.00	4.067	4.066	0.001	1.002	7056457		2.85(1.47-4.42)	91.0	5639	
$ 27 13C8 PFOS										
507.00 > 99.00	4.425	4.426	-0.001	1.090	2231106	2.44		102	2408	
D 29 13C4 PFOS										
503.00 > 80.00	4.425	4.429	-0.004	1.090	4082668	2.38		99.6	2801	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.425	4.432	-0.007	1.000	8226757	4.64	Target=4.28	100.0	1135	
499.00 > 99.00	4.425	4.432	-0.007	1.000	1911199		4.30(2.14-6.41)	100.0	286	M
D 31 13C5 PFNA										
468.00 > 423.00	4.442	4.448	-0.006	1.094	9607630	2.39		95.8	4478	
30 Perfluorononanoic acid										
463.00 > 419.00	4.442	4.449	-0.007	1.000	18728268	5.13	Target=8.00	103	4360	
463.00 > 169.00	4.442	4.449	-0.007	1.000	2524084		7.42(4.00-12.01)	103	2968	
32 9ClFOS										
531.00 > 351.00	4.629	4.632	-0.003	1.046	20819244	4.87		105	18300	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.738	-0.004	1.166	6028710	2.45		97.9	7097	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.739	-0.005	1.000	12065086	5.33		107	13984	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.777	4.781	-0.004	1.080	6494679	4.91	Target=2.15	102	8487	
549.00 > 99.00	4.777	4.781	-0.004	1.080	3136606		2.07(1.08-3.23)	102	2643	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.804	4.808	-0.004	1.000	21812231	5.24	Target=10.44	105	12432	
513.00 > 169.00	4.804	4.808	-0.004	1.000	2050270		10.64(5.22-15.65)	105	333	
D 37 13C2 PFDA										
515.00 > 470.00	4.804	4.808	-0.004	1.184	11615360	2.39		95.6	15932	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.804	4.810	-0.006	1.184	3063702	2.24		93.4	5267	
39 8:2 FTS										
527.00 > 507.00	4.804	4.810	-0.006	1.000	15056794	4.76		99.4	14872	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.971	4.972	-0.001	1.225	6099651	2.43		97.4	2051	
41 NMeFOSAA										
570.00 > 419.00	4.971	4.978	-0.007	1.000	10861594	5.53		111	1827	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.097	5.103	-0.006	1.152	5305131	4.71	Target=2.36	97.8	3283	
599.00 > 99.00	5.097	5.103	-0.006	1.152	2353342		2.25(1.18-3.54)	97.8	3415	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.126	5.132	-0.006	1.000	15793712	5.37	Target=8.67	107	3414	
563.00 > 169.00	5.126	5.132	-0.006	1.000	1766802		8.94(4.34-13.01)	107	2634	
D 44 13C2 PFUnA										
565.00 > 520.00	5.126	5.132	-0.006	1.263	11116061	2.34		93.5	6029	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.135	5.139	-0.004	1.265	5657723	2.33		93.3	7205	
48 NEtFOSA										
584.00 > 419.00	5.145	5.148	-0.003	1.002	9931516	5.67		113	25136	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.182	0.002	1.277	7595314	12.3		98.6	1955	
47 N-MeFOSE-M										
616.00 > 59.00	5.194	5.195	-0.001	1.002	3319950	5.13		103	2422	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	0.0	1.282	3096486	2.67		107	50.3	
50 NMeFOSA										
512.00 > 169.00	5.205	5.213	-0.008	1.000	6137462	5.04		101	334	
51 11ClFOS										
631.00 > 451.00	5.270	5.271	-0.001	1.191	34426796	4.67		99.1	80934	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.352	0.001	1.319	9051681	12.5		100	3323	
53 N-EtFOSE-M										
630.00 > 59.00	5.362	5.366	-0.004	1.002	3733346	4.98		99.6	2602	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.379	0.0	1.325	3023483	2.73		109	176	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.386	0.001	1.002	6144124	4.78		95.7	211	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.420	5.428	-0.008	1.000	23072242	4.99	Target=9.05	99.9	5954	
613.00 > 169.00	5.428	5.428	0.0	1.002	2454536		9.40(4.52-13.57)	99.9	3492	
D 56 13C2 PFDoA										
615.00 > 570.00	5.420	5.428	-0.008	1.335	12660330	2.47		98.9	4966	
58 10:2 FTS										
627.00 > 607.00	5.445	5.445	0.0	1.133	10457328	5.01		104	5300	
59 PFDoS										
699.00 > 80.00	5.662	5.665	-0.003	1.279	2180724	4.96	Target=0.57	103	2500	
699.00 > 99.00	5.662	5.665	-0.003	1.279	3874044		0.56(0.29-0.86)	103	3724	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.701	5.704	-0.003	1.052	23483480	4.95	Target=7.06	99.0	8682	
663.00 > 169.00	5.701	5.704	-0.003	1.052	3434358		6.84(3.53-10.59)	99.0	3096	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.949	5.953	-0.004	1.466	12605192	2.49		99.8	17516	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.949	5.954	-0.005	1.000	23717630	4.78	Target=11.23	95.6	8788	
713.00 > 219.00	5.949	5.954	-0.005	1.000	2140608		11.08(5.62-16.85)	95.6	4424	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.434	6.437	-0.003	1.585	12753004	2.42		97.0	9163	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.434	6.439	-0.005	1.000	23144595	4.74	Target=9.45	94.9	2205	
813.00 > 169.00	6.434	6.439	-0.005	1.000	2773680		8.34(4.72-14.17)	94.9	4048	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.911	6.915	-0.004	1.074	19334584	5.19	Target=11.13	104	3620	
913.00 > 169.00	6.911	6.915	-0.004	1.074	1871260		10.33(5.56-16.69)	104	2911	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL6_00025 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:22:29 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_009.d

Injection Date: 08-Sep-2020 18:48:50 Instrument ID: A13

Lims ID: IC STD 6

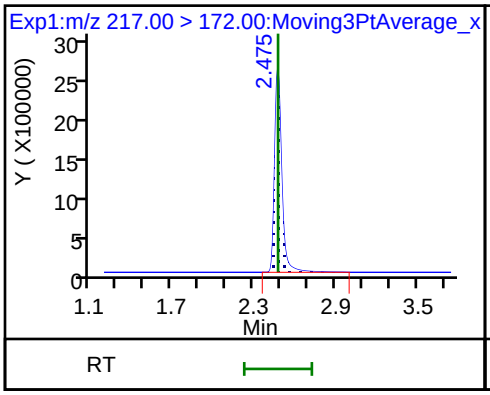
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 6 Worklist Smp#: 7

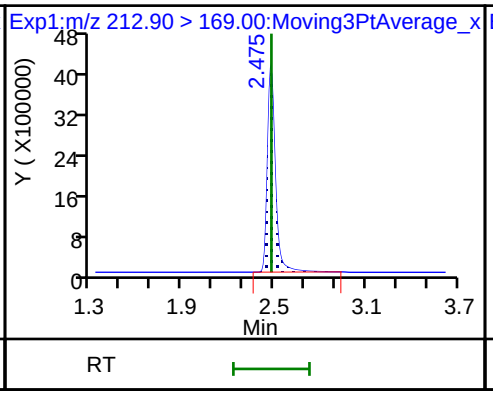
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

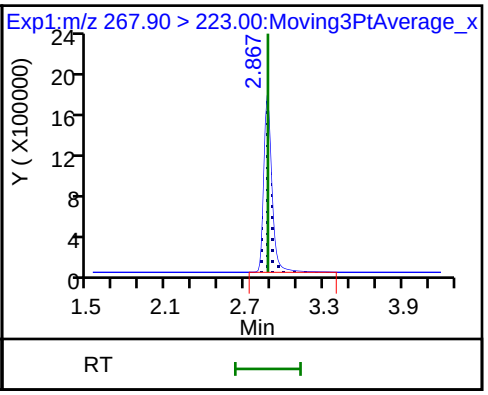
D 1 13C4 PFBA



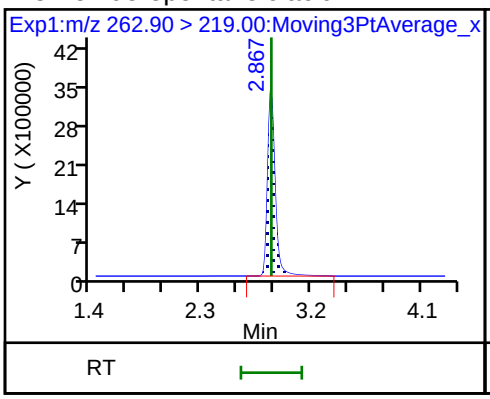
2 Perfluorobutanoic acid



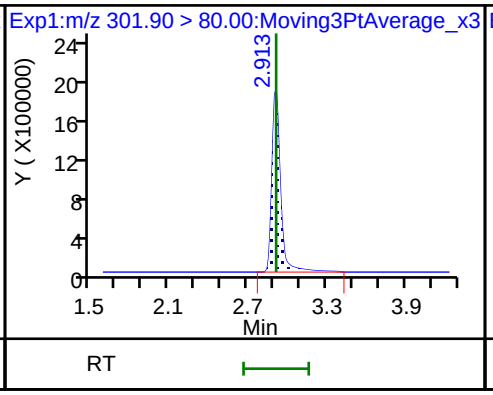
D 4 13C5 PFPeA



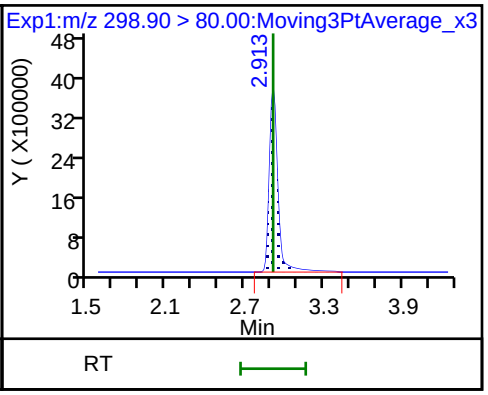
5 Perfluoropentanoic acid



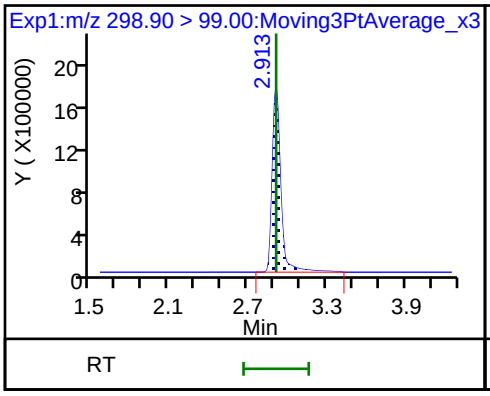
D 14 13C3 PFBS



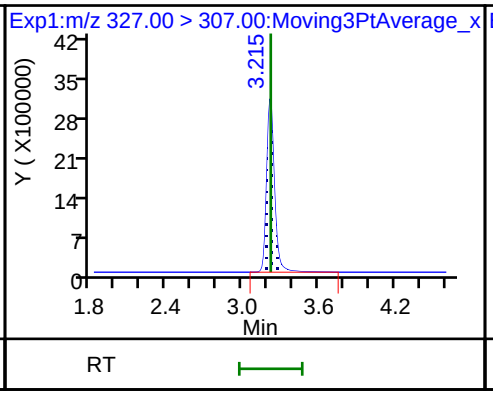
6 Perfluorobutanesulfonic acid



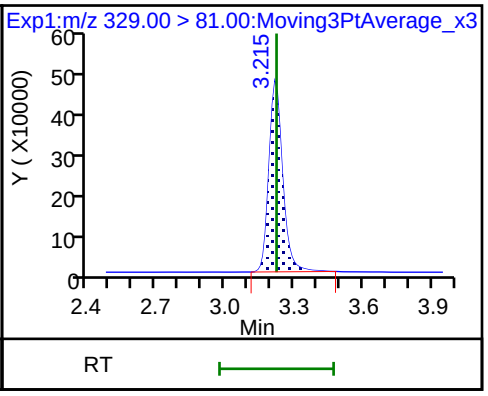
6 Perfluorobutanesulfonic acid



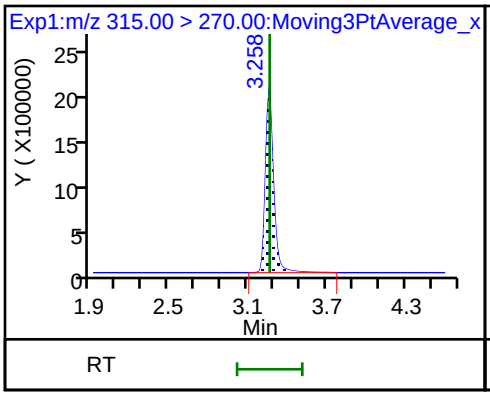
7 4:2 FTS



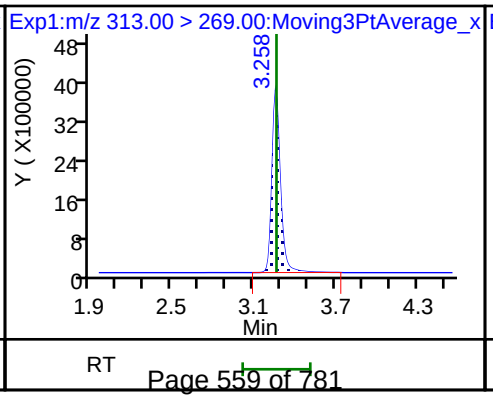
D 8 M2-4:2 FTS



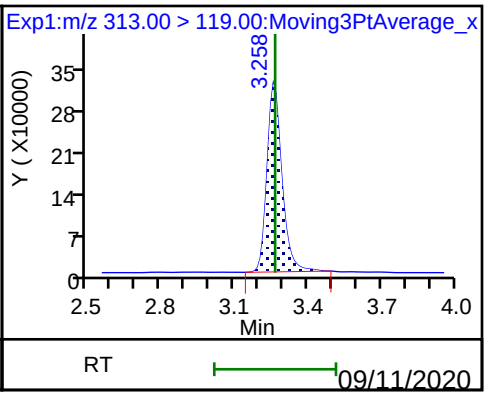
D 9 13C2 PFHxA



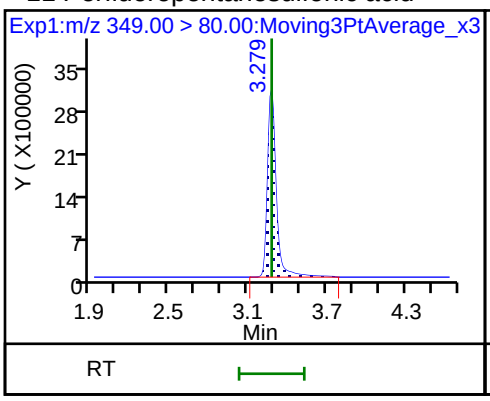
10 Perfluorohexanoic acid



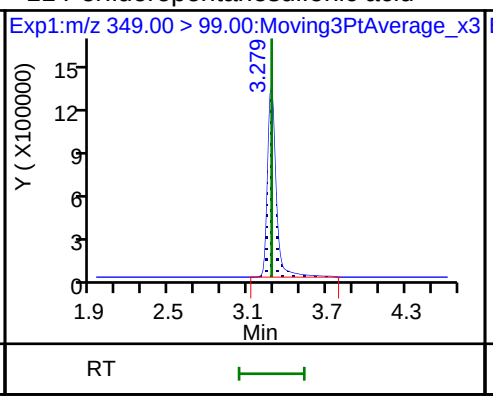
10 Perfluorohexanoic acid



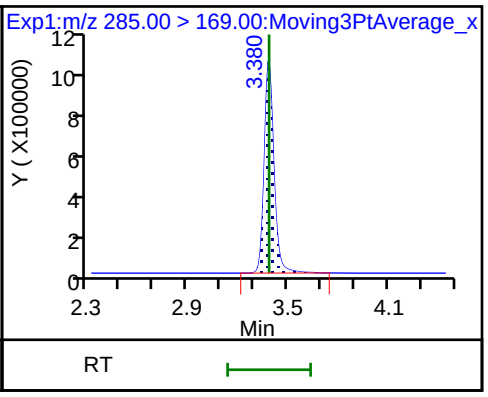
11 Perfluoropentanesulfonic acid



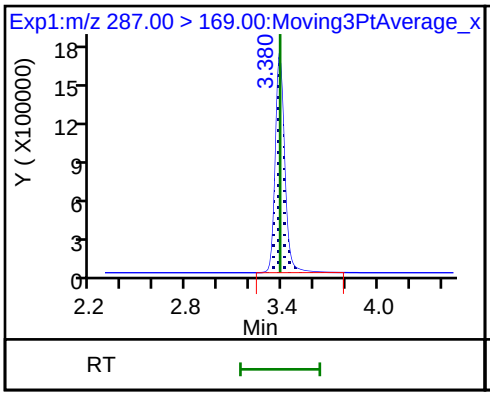
11 Perfluoropentanesulfonic acid



12 HPFO-DA



D 13 13C3 HFPO-DA



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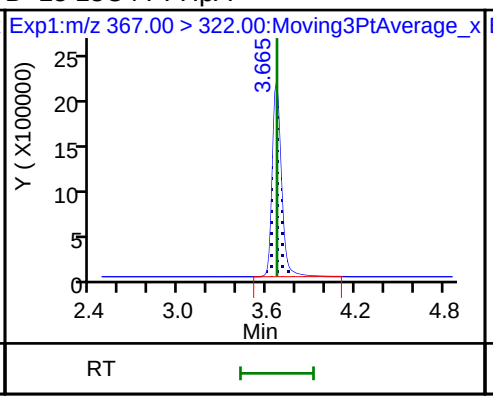
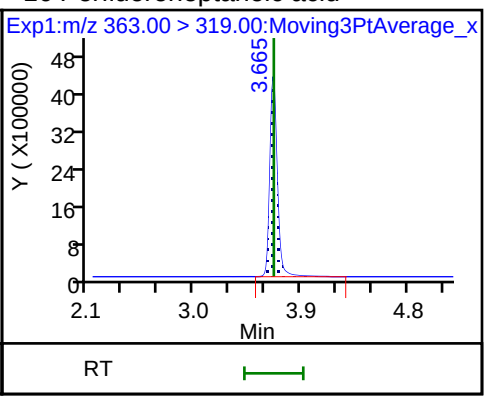
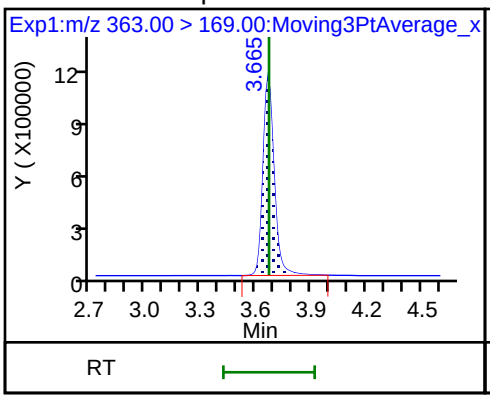


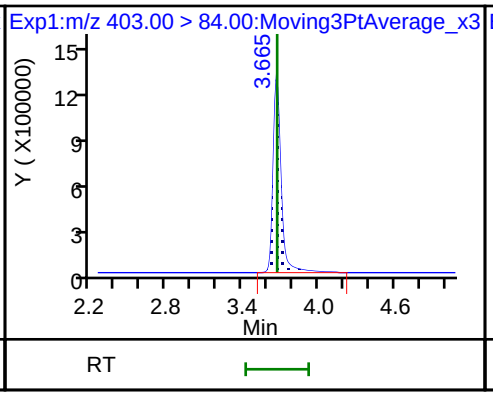
16 Perfluoroheptanoic acid



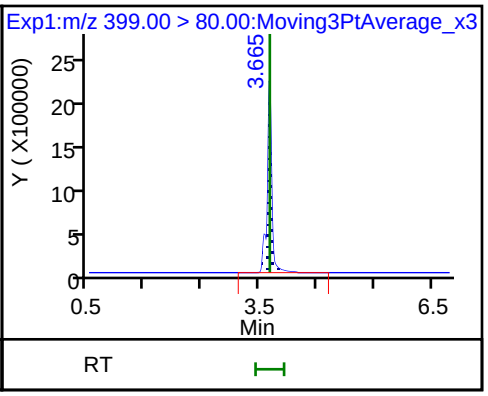
16 Perfluoroheptanoic acid



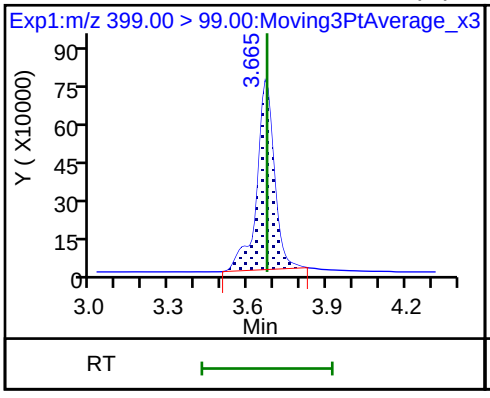
D 17 18O2 PFHxS



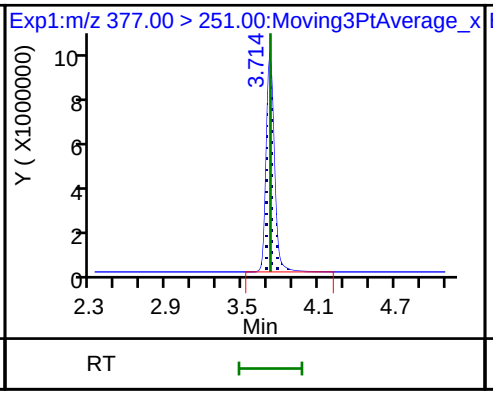
18 Perfluorohexanesulfonic acid



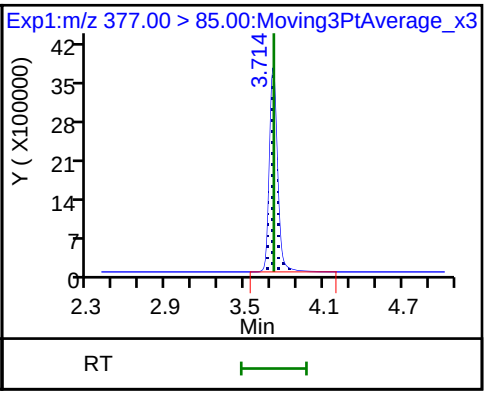
18 Perfluorohexanesulfonic acid (M)



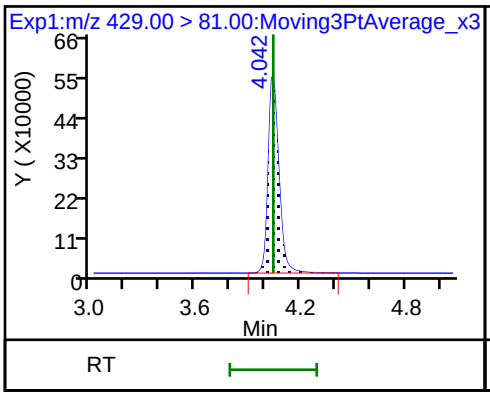
19 DONA



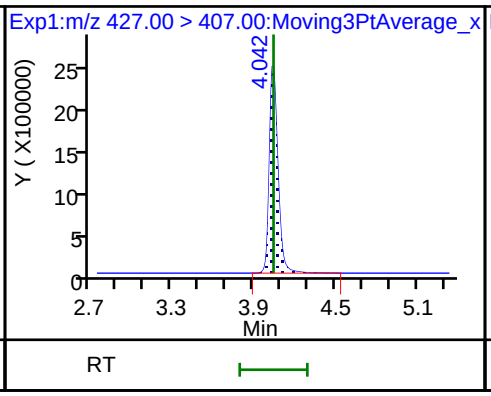
19 DONA



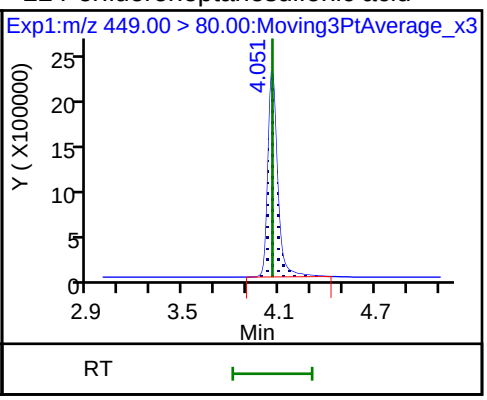
D 20 M2-6:2 FTS



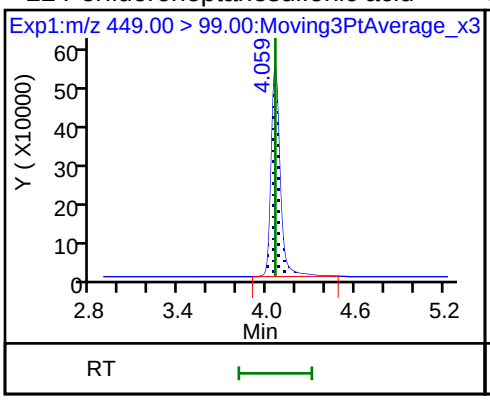
21 6:2 FTS



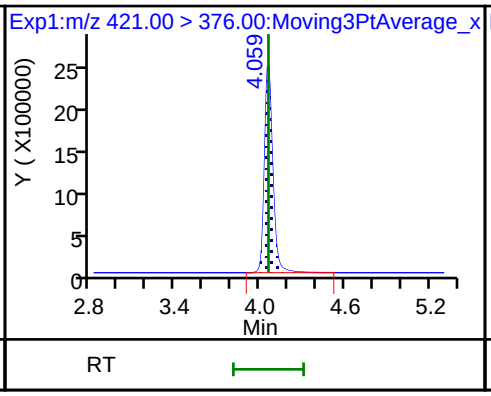
22 Perfluoroheptanesulfonic acid



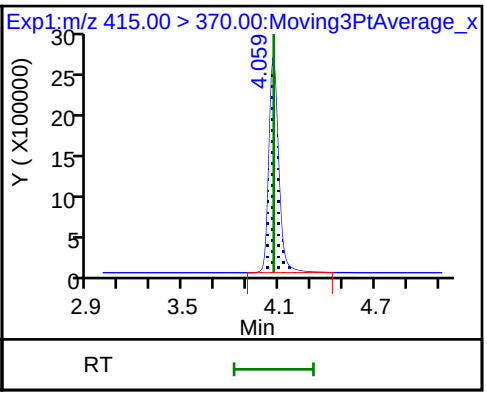
22 Perfluoroheptanesulfonic acid



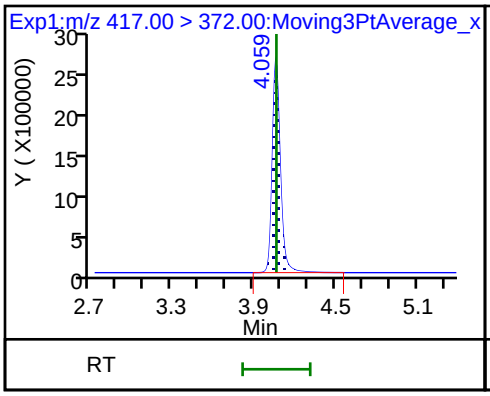
$ 23 13C8 PFOA



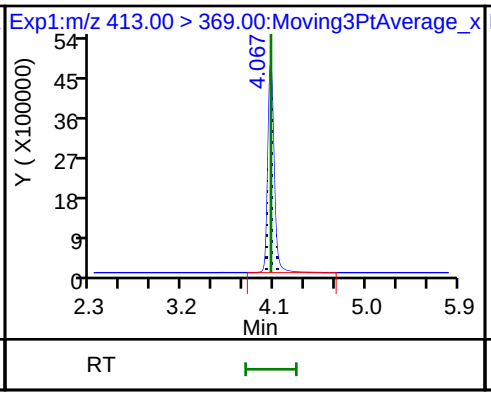
* 25 13C2 PFOA



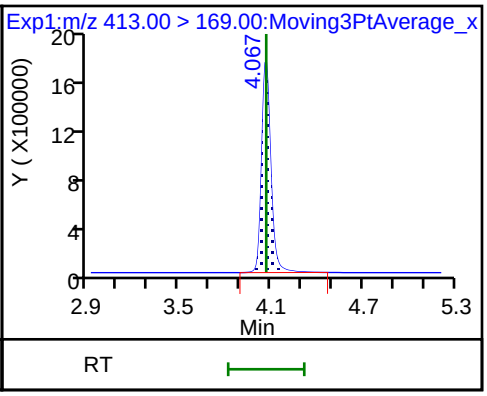
D 24 13C4 PFOA



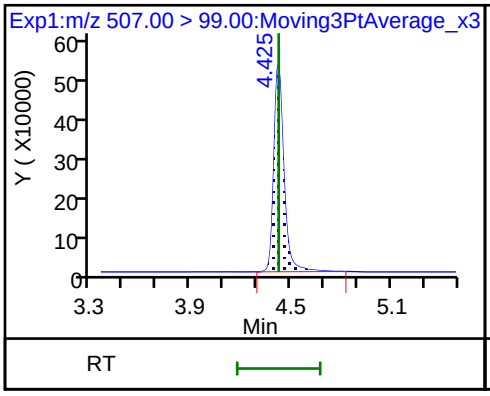
26 Perfluorooctanoic acid



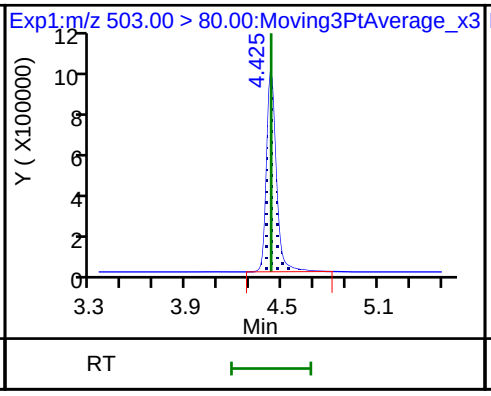
26 Perfluorooctanoic acid



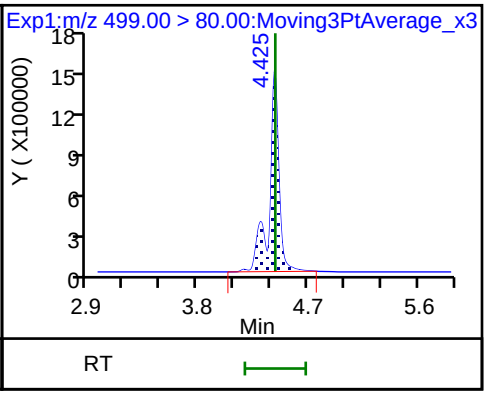
$ 27 13C8 PFOS



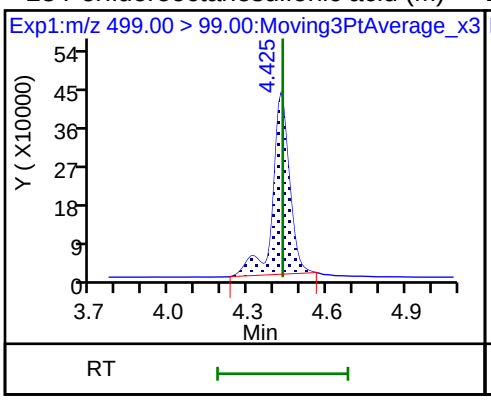
D 29 13C4 PFOS



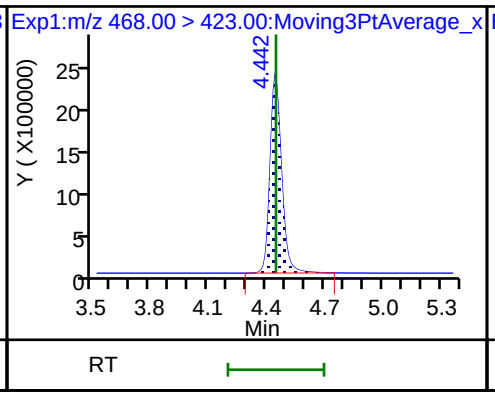
28 Perfluorooctanesulfonic acid



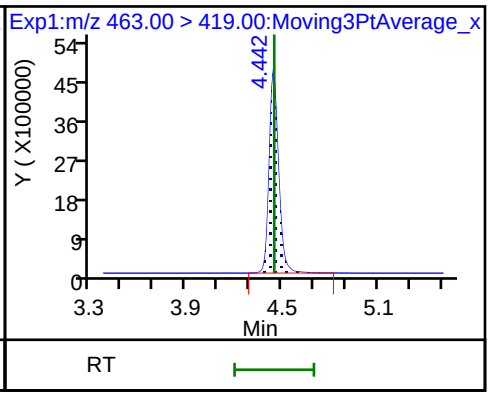
28 Perfluorooctanesulfonic acid (M)



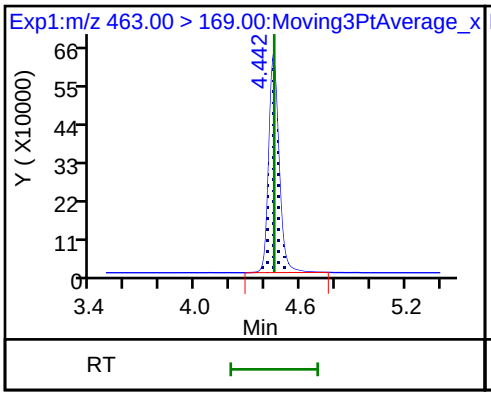
D 31 13C5 PFNA



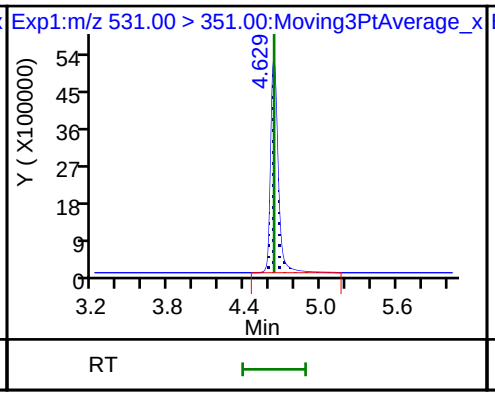
30 Perfluorononanoic acid



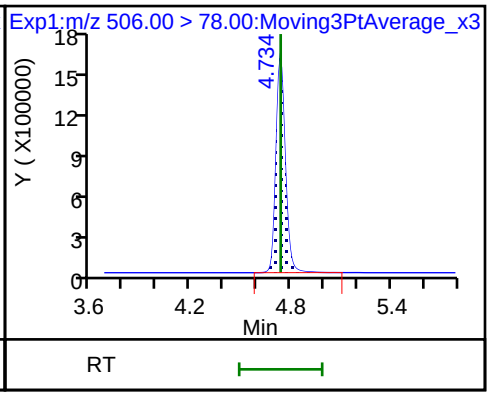
30 Perfluorononanoic acid



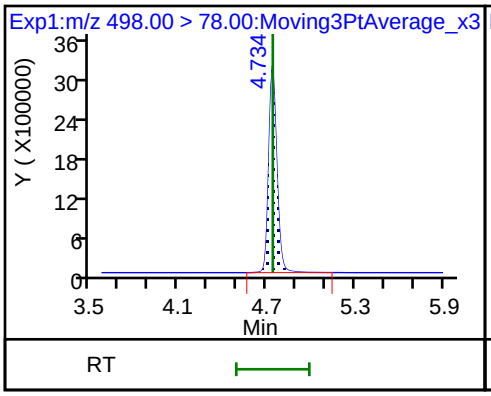
32 9ClFOS



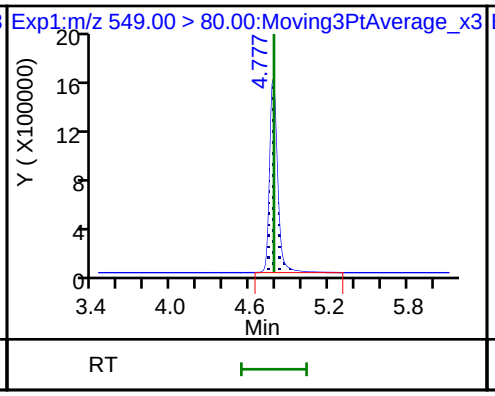
D 34 13C8 FOSA



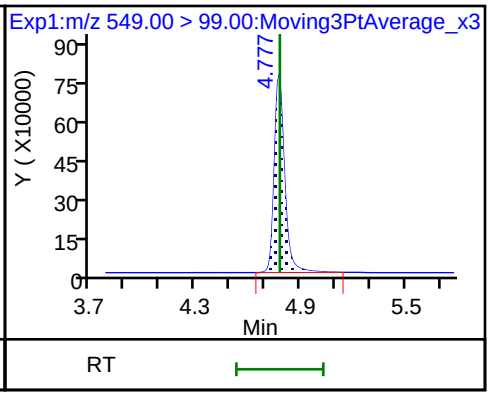
33 Perfluorooctanesulfonamide



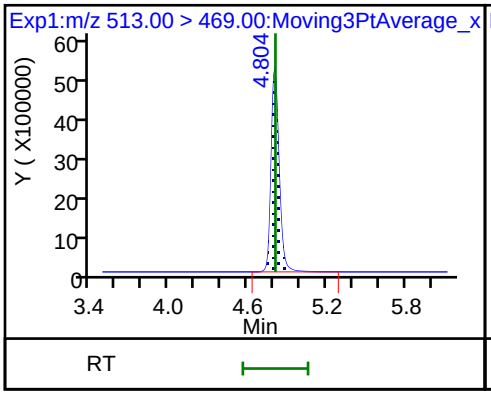
35 Perfluorononanesulfonic acid



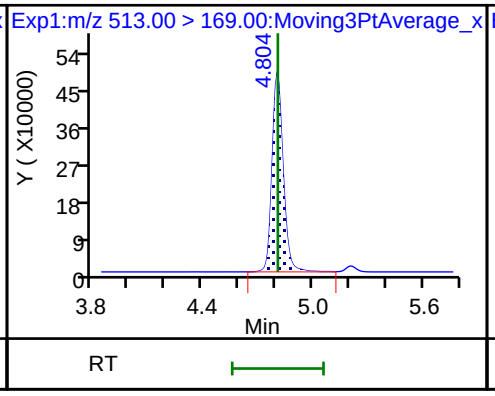
35 Perfluorononanesulfonic acid



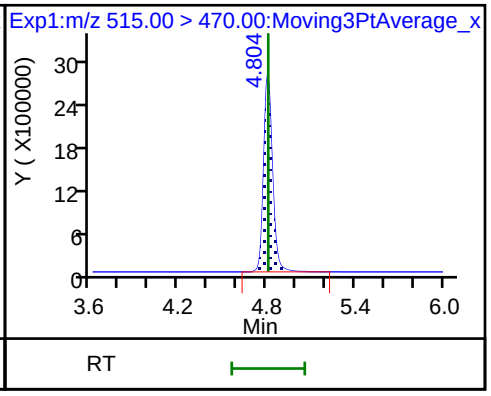
36 Perfluorodecanoic acid



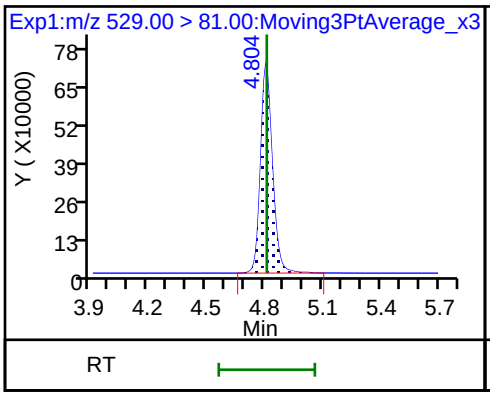
36 Perfluorodecanoic acid



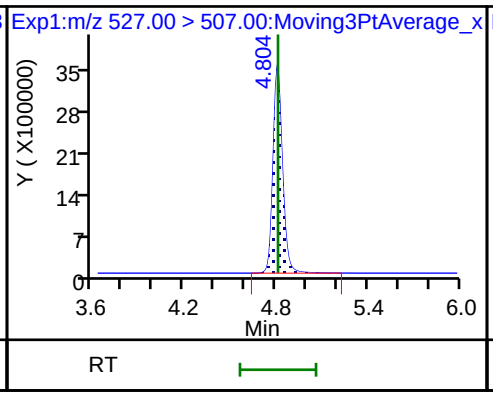
D 37 13C2 PFDA



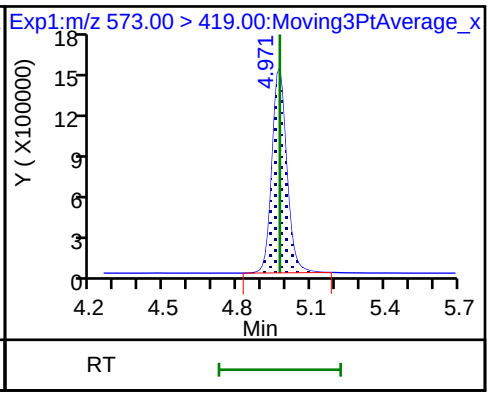
D 38 M2-8:2 FTS



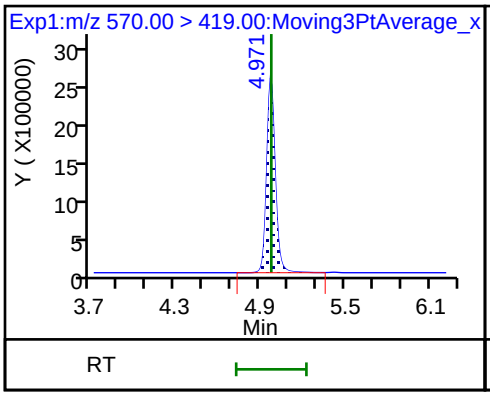
39 8:2 FTS



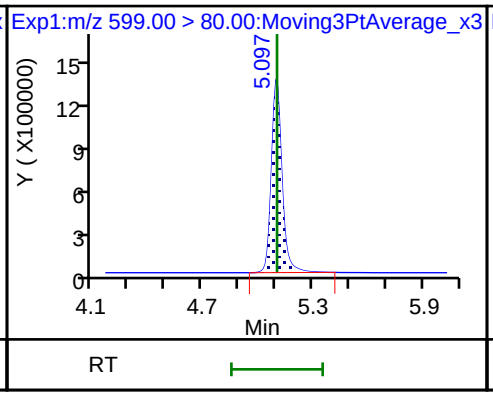
D 40 d3-NMeFOSAA



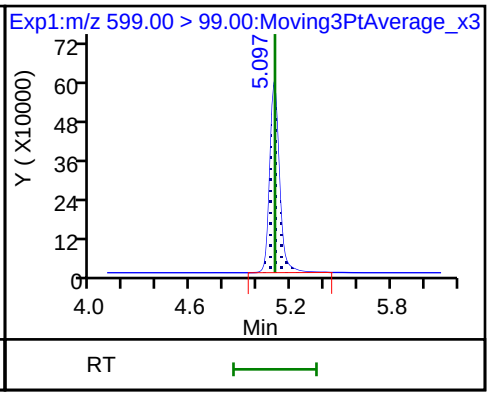
41 NMeFOSAA



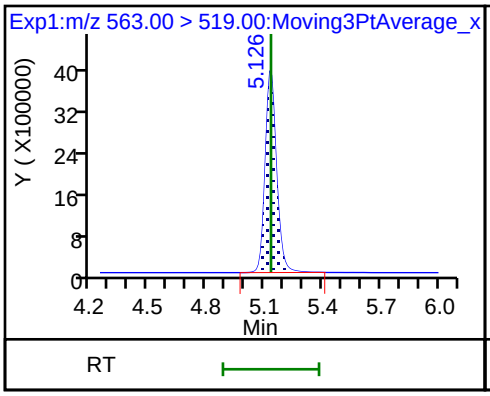
42 Perfluorodecanesulfonic acid



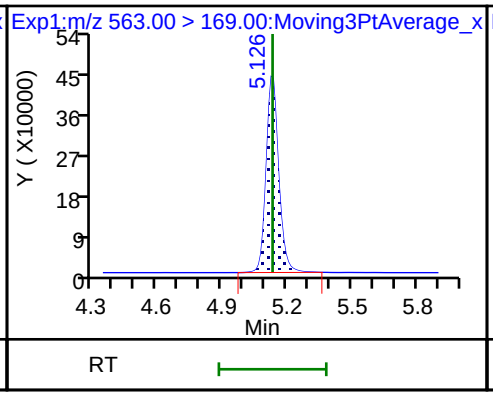
42 Perfluorodecanesulfonic acid



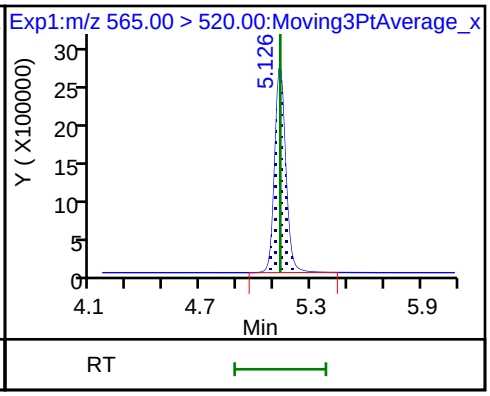
45 Perfluoroundecanoic acid



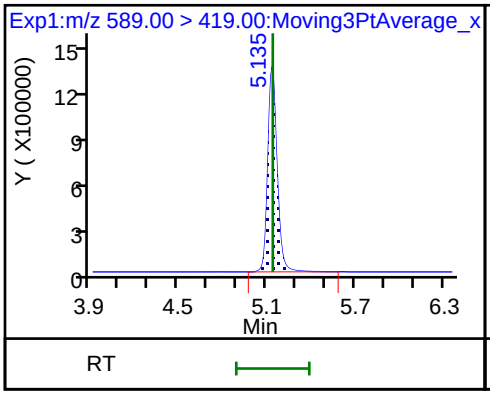
45 Perfluoroundecanoic acid



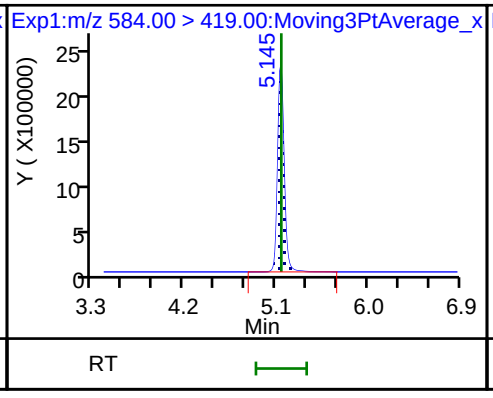
D 44 13C2 PFUnA



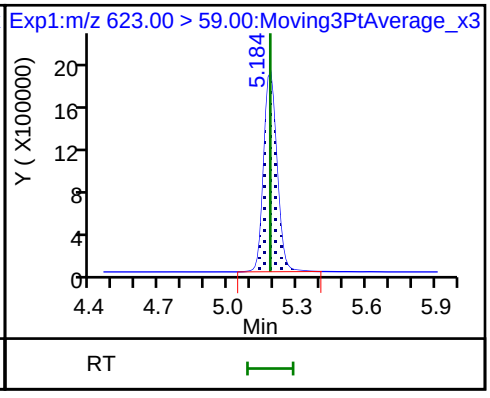
D 46 d5-NEtFOSAA



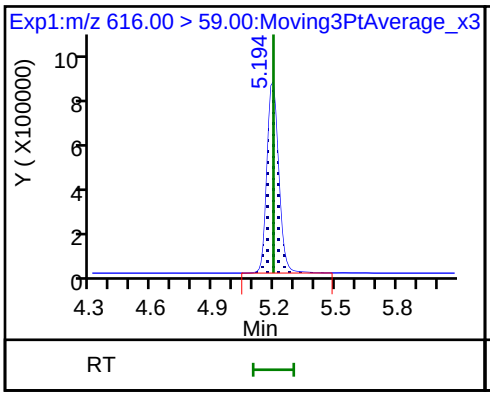
48 NEtFOSA



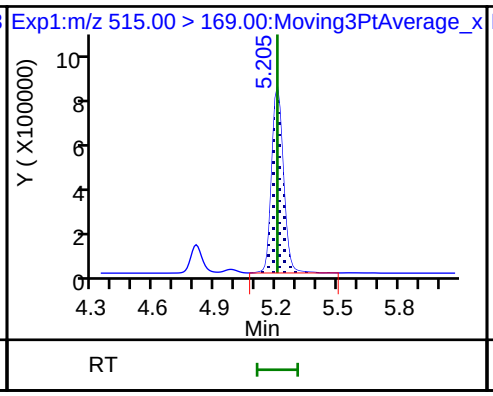
D 43 d7-N-MeFOSE-M



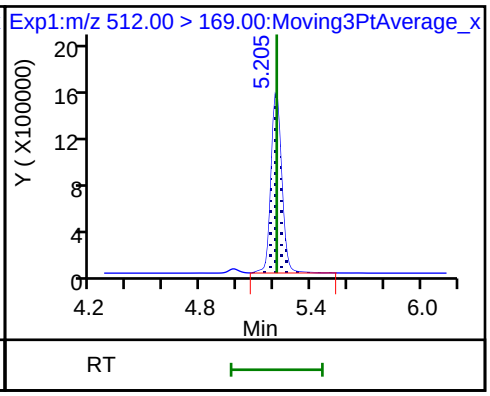
47 N-MeFOSE-M



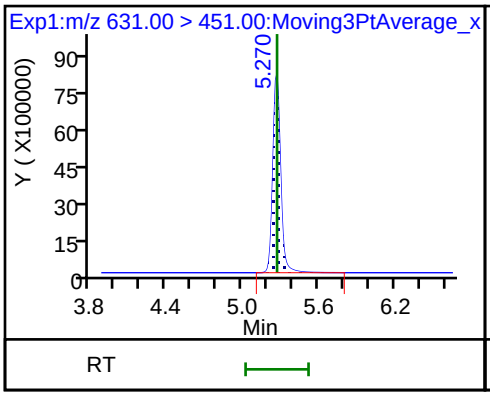
D 49 d-N-MeFOSA-M



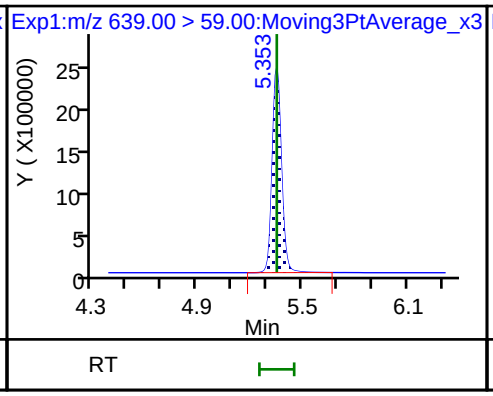
50 NMeFOSA



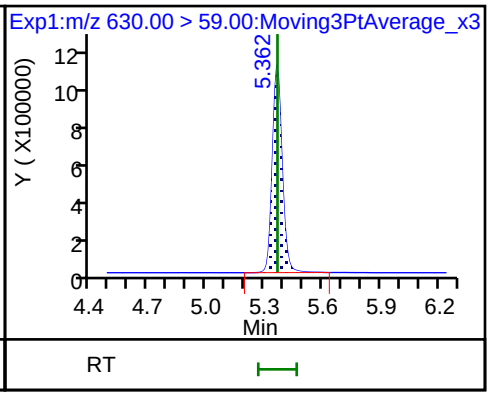
51 11ClFOS



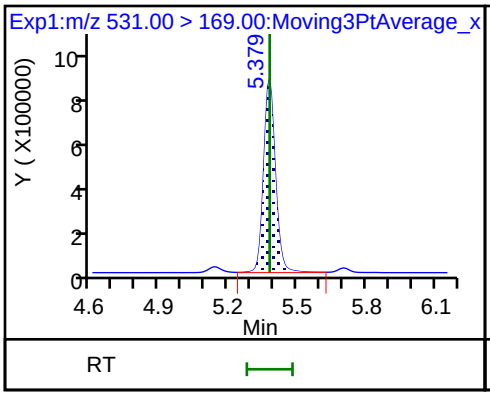
D 52 d9-N-EtFOSE-M



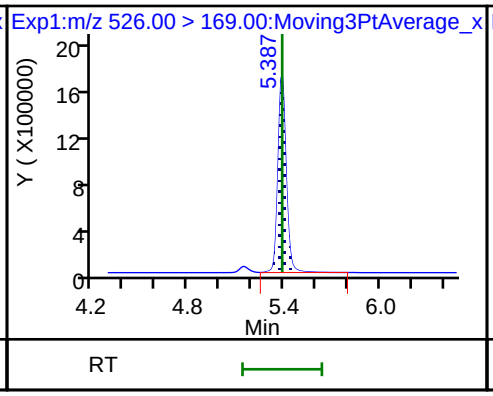
53 N-EtFOSE-M



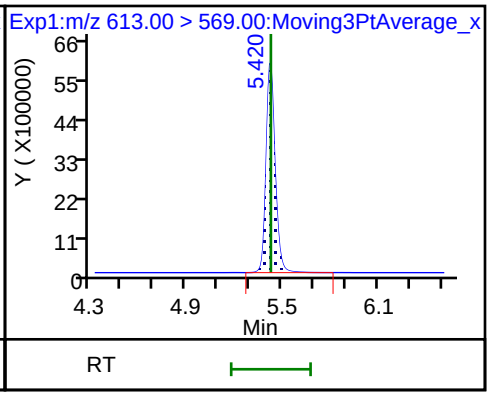
D 54 d-N-EtFOSA-M



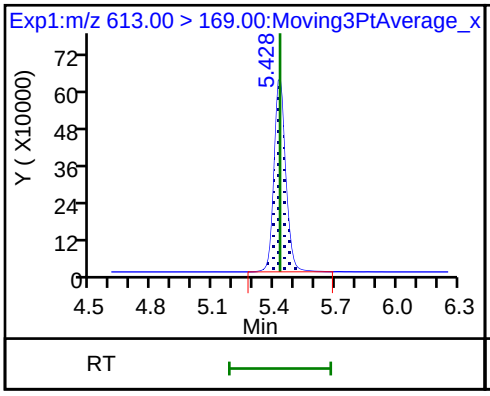
55 N-EtFOSA-M



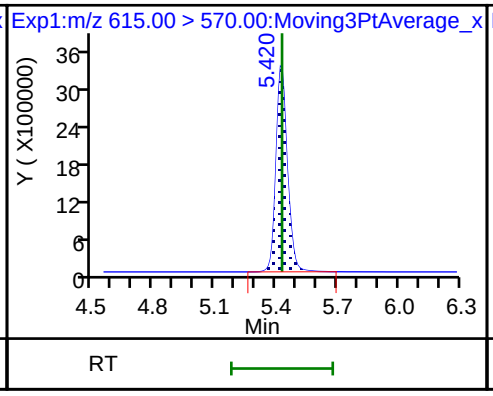
57 Perfluorododecanoic acid



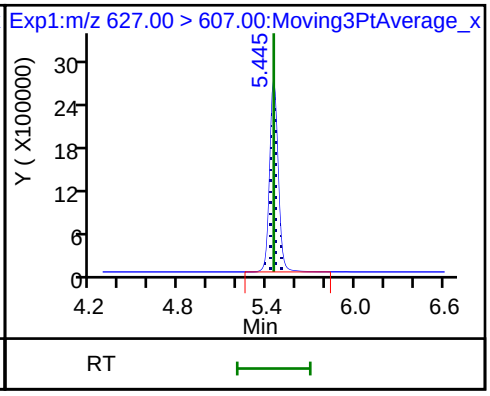
57 Perfluorododecanoic acid



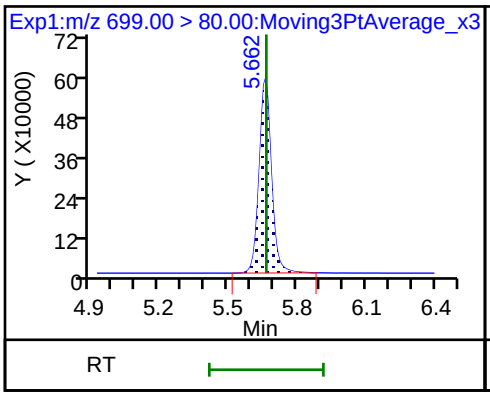
D 56 13C2 PFDoA



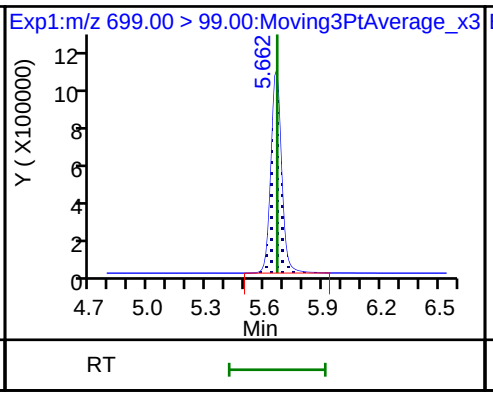
58 10:2 FTS



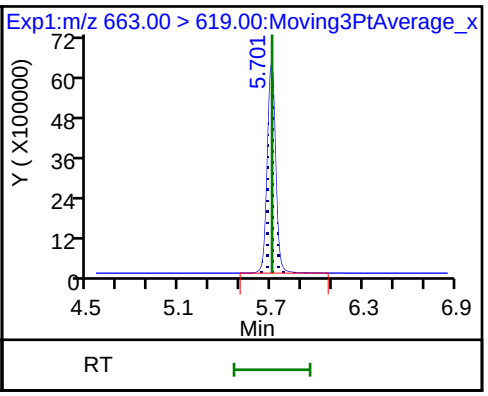
59 PFDoS



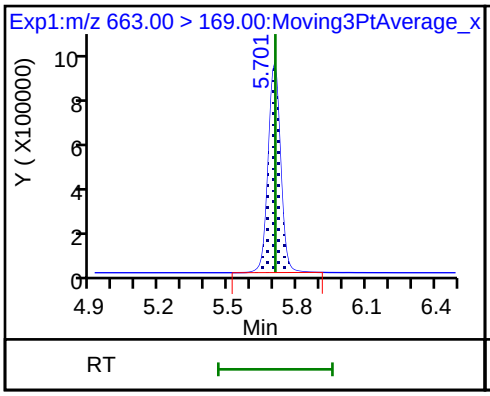
59 PFDoS



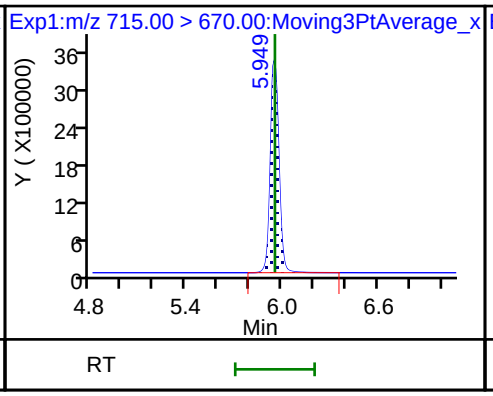
60 Perfluorotridecanoic acid



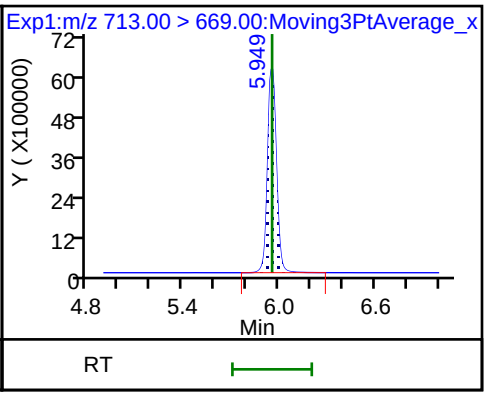
60 Perfluorotridecanoic acid



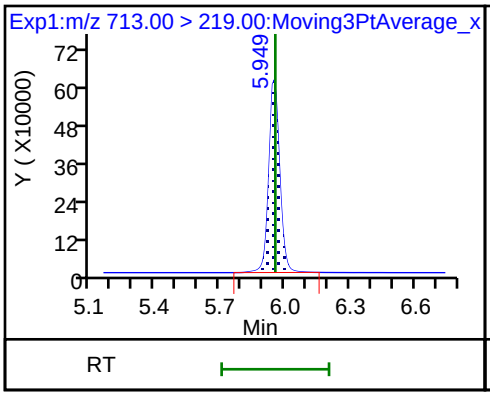
D 61 13C2 PFTeDA



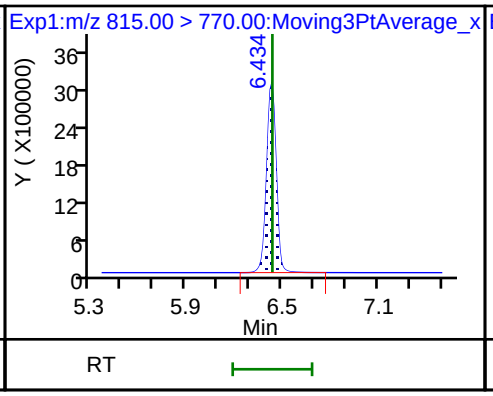
62 Perfluorotetradecanoic acid



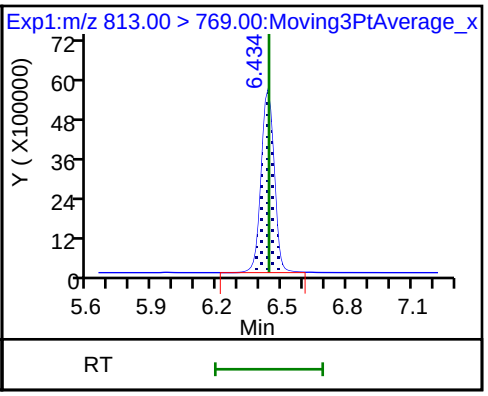
62 Perfluorotetradecanoic acid



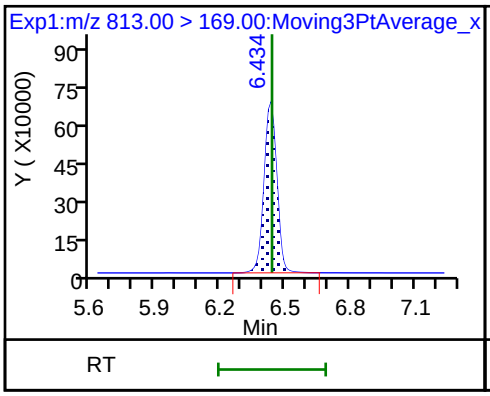
D 64 13C2 PFHxDA



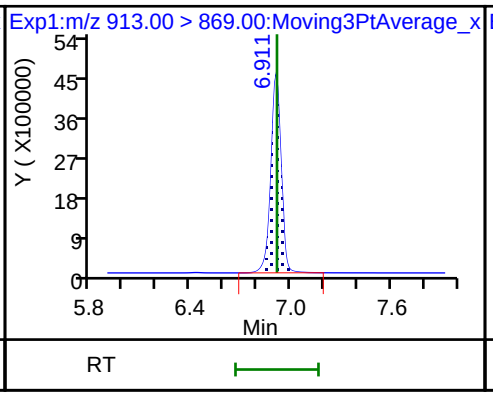
63 Perfluorohexadecanoic acid



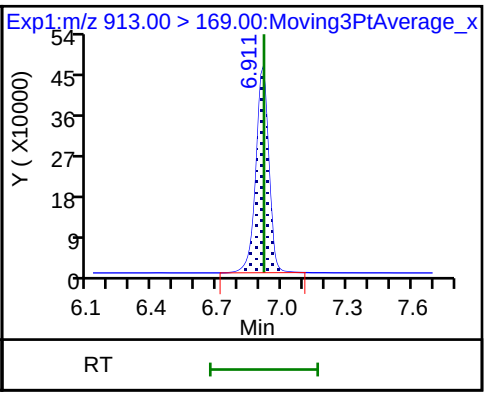
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

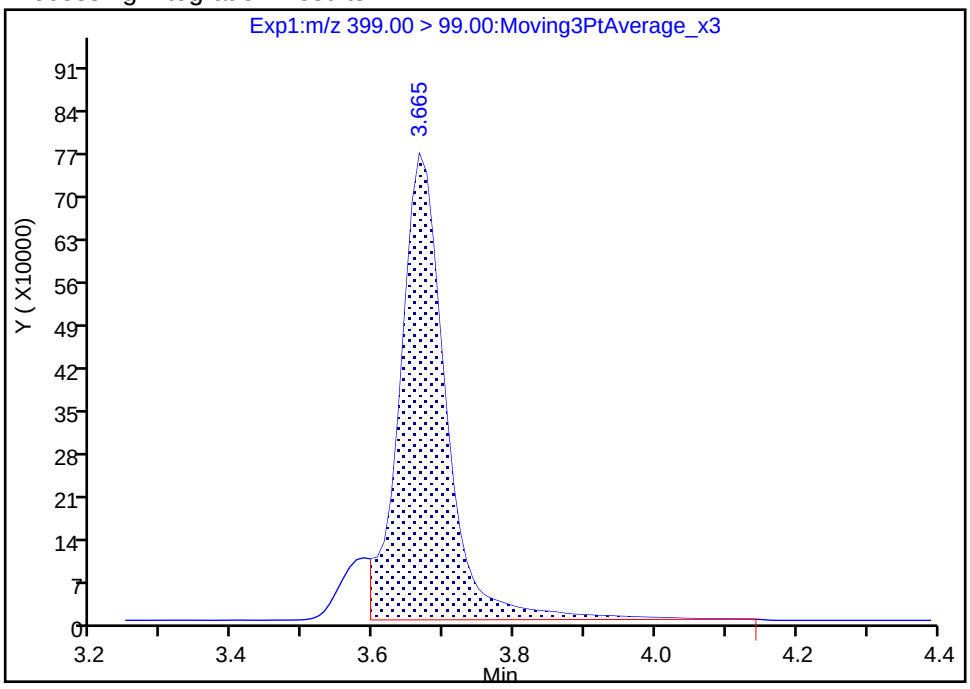
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_009.d
Injection Date: 08-Sep-2020 18:48:50 Instrument ID: A13
Lims ID: IC STD 6
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

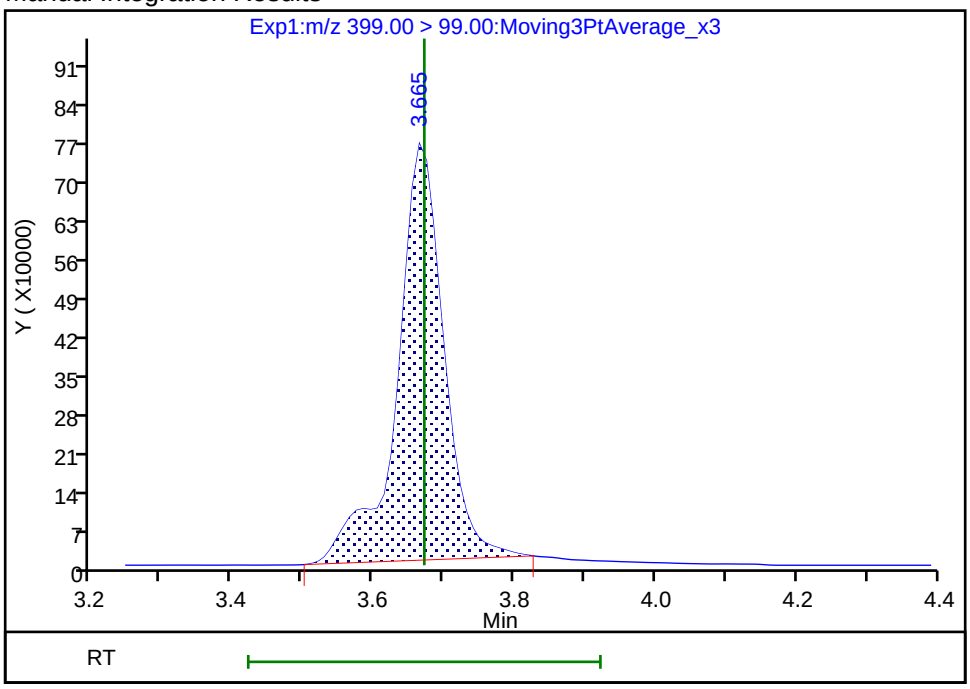
Processing Integration Results

RT: 3.66
Area: 3443485
Amount: 4.374641
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 3480916
Amount: 4.374641
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:33:52
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

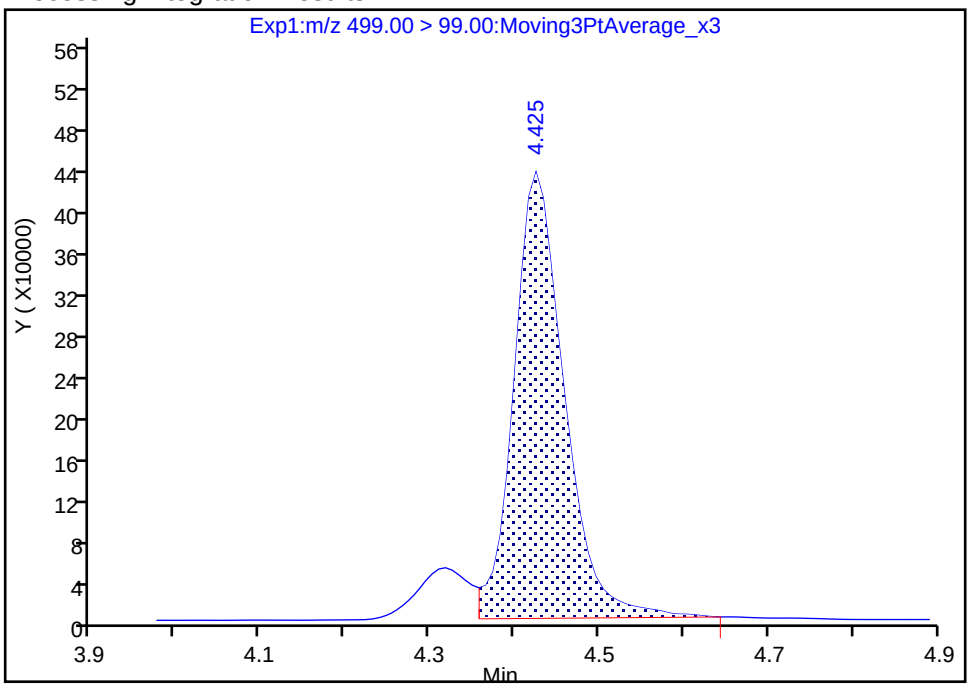
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_009.d
Injection Date: 08-Sep-2020 18:48:50 Instrument ID: A13
Lims ID: IC STD 6
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

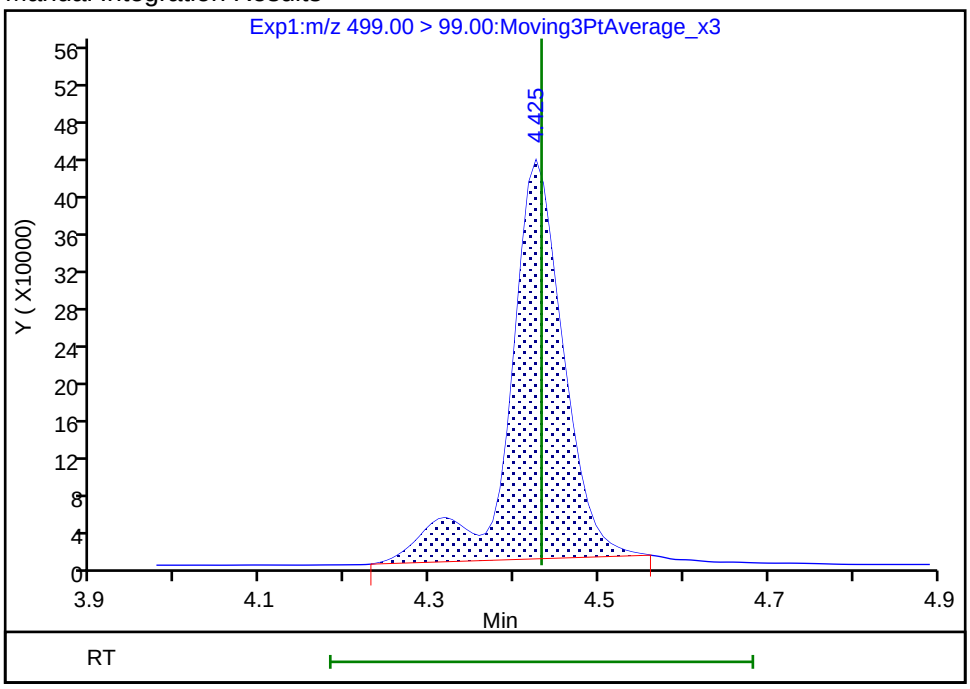
Processing Integration Results

RT: 4.43
Area: 1799432
Amount: 4.638216
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 1911199
Amount: 4.638216
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:34:02
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d
Lims ID: IC STD 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Sep-2020 18:58:15 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ISTD 7 (24)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:22:35 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 09:35:28
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.477	-0.002	0.608	9397601	2.60		104	29482	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.482	2.480	0.002	1.003	26655152	9.54		95.4	10992	
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.873	-0.007	0.705	7301470	2.59		104	9064	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.875	0.003	1.004	26282266	8.76		87.6	4885	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.716	8481982	2.40		103	18551	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	30714271	8.61	Target=2.18	97.4	40604	
298.90 > 99.00	2.913	2.913	0.0	1.000	14617523		2.10(1.09-3.26)	97.4	8151	
7 4:2 FTS										
327.00 > 307.00	3.225	3.221	0.004	1.000	23932034	9.01		96.5	123231	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.225	3.222	0.003	0.793	1911168	2.21		94.6	1333	
D 9 13C2 PFHxA										
315.00 > 270.00	3.268	3.264	0.004	0.804	8779452	2.53		101	7369	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.265	0.003	1.000	30815520	9.44	Target=11.68	94.4	6213	
313.00 > 119.00	3.268	3.265	0.003	1.000	2753405		11.19(5.84-17.52)	94.4	1045	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	27082975	9.40	Target=2.56	100	47068	
349.00 > 99.00	3.279	3.279	0.0	1.126	10833609		2.50(1.28-3.84)	100	14642	
12 HPFO-DA										
285.00 > 169.00	3.388	3.386	0.002	1.000	7876756	10.2		102	2787	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.386	0.002	0.833	6494935	2.61		104	7350	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.675	3.670	0.005	1.003	32814594	9.59	Target=3.85	95.9	5041	
363.00 > 169.00	3.665	3.670	-0.005	1.000	9357169		3.51(1.92-5.77)	95.9	7006	
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.668	-0.003	0.901	8464192	2.47		98.9	25759	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.675	3.672	0.003	1.000	22053412	8.49	Target=3.25	93.3	1417	
399.00 > 99.00	3.675	3.672	0.003	1.000	7065635		3.12(1.62-4.87)	93.3	286	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.675	3.672	0.003	0.904	5520203	2.38		101	28380	
19 DONA										
377.00 > 251.00	3.722	3.719	0.003	0.841	64819077	7.45	Target=2.76	79.1	55219	
377.00 > 85.00	3.722	3.719	0.003	0.841	29174058		2.22(1.38-4.14)	79.1	23580	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.043	-0.001	0.994	2109180	2.11		89.0	3812	
21 6:2 FTS										
427.00 > 407.00	4.042	4.043	-0.001	1.000	18651101	8.73		92.0	9182	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.059	4.056	0.003	0.917	18263636	9.46	Target=4.29	99.4	38583	
449.00 > 99.00	4.059	4.056	0.003	0.917	4383758		4.17(2.15-6.44)	99.4	1888	
* 25 13C2 PFOA										
415.00 > 370.00	4.067	4.065	0.002		10620941	2.50			4177	
D 24 13C4 PFOA										
417.00 > 372.00	4.067	4.065	0.002	1.000	10524627	2.52		101	14649	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.058	0.001	0.998	9748895	2.58		105	4287	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.066	0.001	1.000	36963255	8.58	Target=2.95	85.8	8509	
413.00 > 169.00	4.067	4.066	0.001	1.000	13581931		2.72(1.47-4.42)	85.8	23304	
$ 27 13C8 PFOS										
507.00 > 99.00	4.426	4.426	0.0	1.088	2165574	2.46		103	2505	
D 29 13C4 PFOS										
503.00 > 80.00	4.426	4.429	-0.003	1.088	4050192	2.45		103	3525	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.435	4.432	0.003	1.002	16026278	9.11	Target=4.28	98.1	1227	
499.00 > 99.00	4.426	4.432	-0.006	1.000	3879549		4.13(2.14-6.41)	98.1	363	M
D 31 13C5 PFNA										
468.00 > 423.00	4.452	4.448	0.004	1.095	9530979	2.47		98.6	8101	
30 Perfluorononanoic acid										
463.00 > 419.00	4.452	4.449	0.003	1.000	34328615	9.48	Target=8.00	94.8	3654	
463.00 > 169.00	4.452	4.449	0.003	1.000	4761903		7.21(4.00-12.01)	94.8	3713	
32 9ClFOS										
531.00 > 351.00	4.629	4.632	-0.003	1.046	38369939	9.05		97.1	36611	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.738	-0.004	1.164	5943159	2.50		100	5954	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.739	-0.005	1.000	22290641	10.0		99.9	46252	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.777	4.781	-0.004	1.079	12917552	9.84	Target=2.15	102	5248	
549.00 > 99.00	4.777	4.781	-0.004	1.079	6190666		2.09(1.08-3.23)	102	9011	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.804	4.808	-0.004	1.000	38244371	9.21	Target=10.44	92.1	10436	
513.00 > 169.00	4.804	4.808	-0.004	1.000	3909883		9.78(5.22-15.65)	92.1	327	
D 37 13C2 PFDA										
515.00 > 470.00	4.804	4.808	-0.004	1.181	11582996	2.47		98.9	8711	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.810	0.003	1.183	2642999	2.00		83.6	3766	
39 8:2 FTS										
527.00 > 507.00	4.813	4.810	0.003	1.000	25512691	9.35		97.6	7118	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.971	4.972	-0.001	1.222	6252520	2.59		104	3726	
41 NMeFOSAA										
570.00 > 419.00	4.980	4.978	0.002	1.002	21267414	10.6		106	2546	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.106	5.103	0.003	1.154	10686131	9.57	Target=2.36	99.3	41423	
599.00 > 99.00	5.096	5.103	-0.007	1.151	4772492		2.24(1.18-3.54)	99.3	6822	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.135	5.132	0.003	1.000	31474743	10.7	Target=8.67	107	8662	
563.00 > 169.00	5.135	5.132	0.003	1.000	3368366		9.34(4.34-13.01)	107	5712	
D 44 13C2 PFUnA										
565.00 > 520.00	5.135	5.132	0.003	1.262	11130004	2.43		97.2	7395	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.135	5.139	-0.004	1.262	5077808	2.17		86.9	2594	
48 NEtFOSA										
584.00 > 419.00	5.144	5.148	-0.004	1.002	18272482	11.6		116	44810	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.183	5.182	0.001	1.274	7886277	13.3		106	2940	
47 N-MeFOSE-M										
616.00 > 59.00	5.193	5.195	-0.002	1.002	6274125	9.34		93.4	2394	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	0.0	1.280	3183250	2.85		114	55.1	
50 NMeFOSA										
512.00 > 169.00	5.216	5.213	0.003	1.002	11776983	9.41		94.1	264	
51 11ClFOS										
631.00 > 451.00	5.269	5.271	-0.002	1.190	57564339	7.87		83.5	79221	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.354	5.352	0.002	1.316	8859198	12.7		102	3402	
53 N-EtFOSE-M										
630.00 > 59.00	5.371	5.366	0.005	1.003	6971778	9.50		95.0	2914	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.380	5.379	0.001	1.323	2906316	2.73		109	125	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.388	5.386	0.002	1.002	11849335	9.60		96.0	276	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.429	5.428	0.001	1.000	39528010	8.83	Target=9.05	88.3	7680	
613.00 > 169.00	5.421	5.428	-0.007	0.998	4859476		8.13(4.52-13.57)	88.3	4289	
D 56 13C2 PFDoA										
615.00 > 570.00	5.429	5.428	0.001	1.335	12272069	2.49		99.6	12096	
58 10:2 FTS										
627.00 > 607.00	5.446	5.445	0.001	1.132	18642571	10.4		107	2748	
59 PFDoS										
699.00 > 80.00	5.663	5.665	-0.002	1.279	4386576	10.1	Target=0.57	104	5412	
699.00 > 99.00	5.663	5.665	-0.002	1.279	7722379		0.57(0.29-0.86)	104	5508	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.703	5.704	-0.001	1.050	39862771	8.66	Target=7.06	86.6	12885	
663.00 > 169.00	5.703	5.704	-0.001	1.050	6699439		5.95(3.53-10.59)	86.6	5896	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.950	5.953	-0.003	1.463	13067077	2.68		107	12443	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.950	5.954	-0.004	1.000	42819972	8.32	Target=11.23	83.2	11055	
713.00 > 219.00	5.950	5.954	-0.004	1.000	4434917		9.66(5.62-16.85)	83.2	8519	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.437	-0.002	1.582	12006459	2.37		94.8	5324	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.435	6.439	-0.004	1.000	37625003	8.21	Target=9.45	82.1	4245	
813.00 > 169.00	6.435	6.439	-0.004	1.000	4773146		7.88(4.72-14.17)	82.1	6871	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.912	6.915	-0.003	1.074	36559244	10.4	Target=11.13	104	4901	
913.00 > 169.00	6.912	6.915	-0.003	1.074	3340210		10.95(5.56-16.69)	104	2874	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL7_00024 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:22:39 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Injection Date: 08-Sep-2020 18:58:15 Instrument ID: A13

Lims ID: IC STD 7

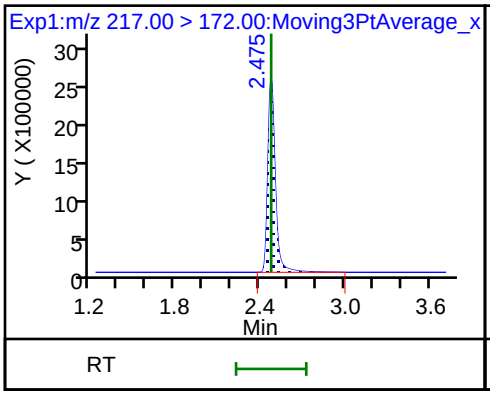
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 7 Worklist Smp#: 8

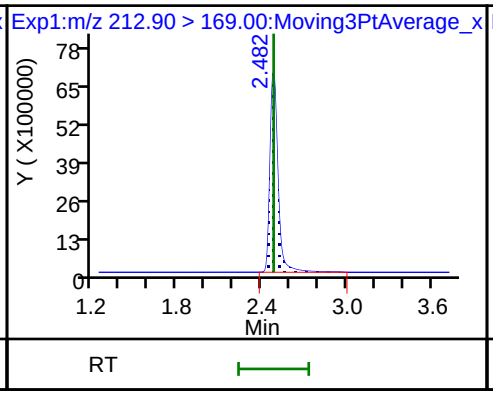
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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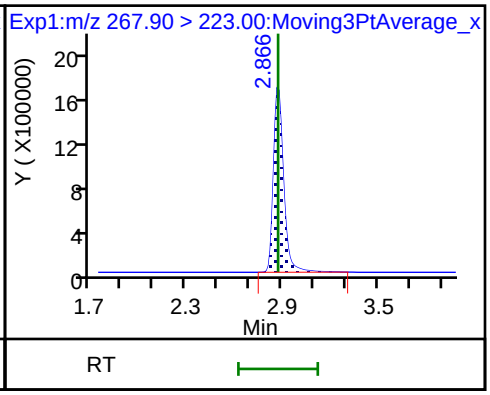
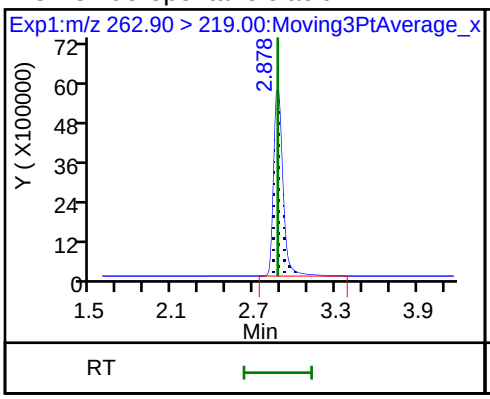
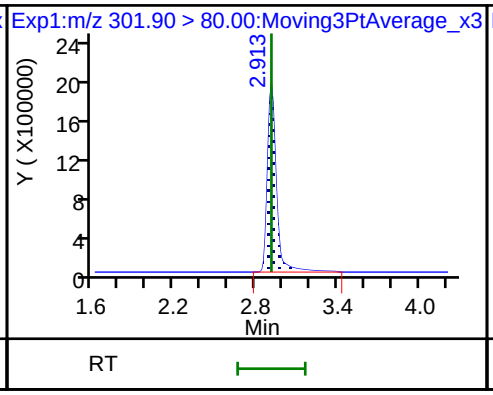


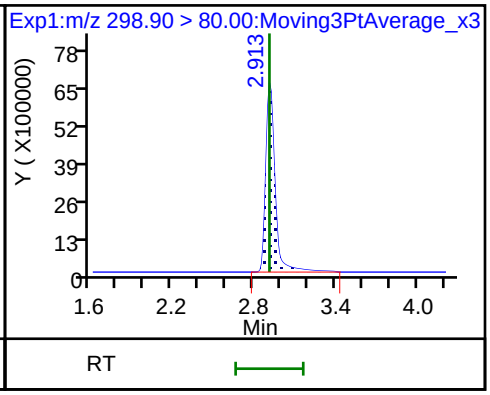
5 Perfluoropentanoic acid



D 14 13C3 PFBS



6 Perfluorobutanesulfonic acid



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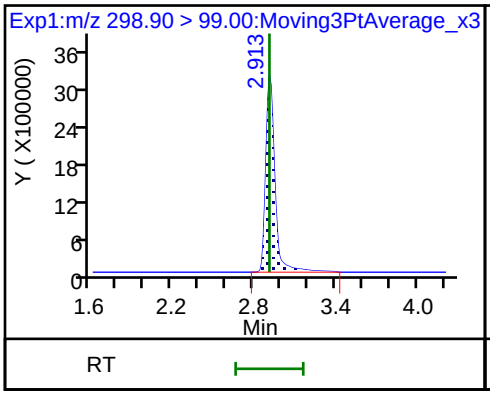
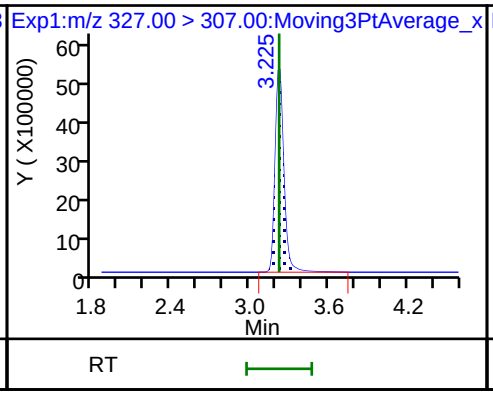
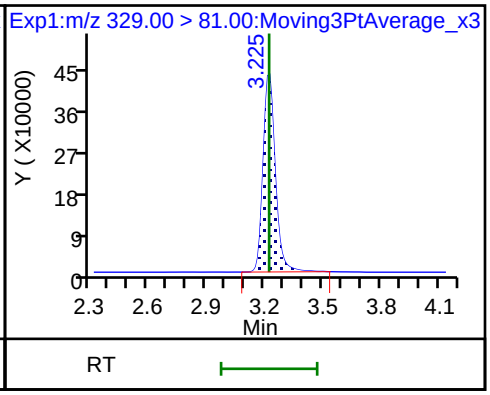


7 4:2 FTS



D 8 M2-4:2 FTS



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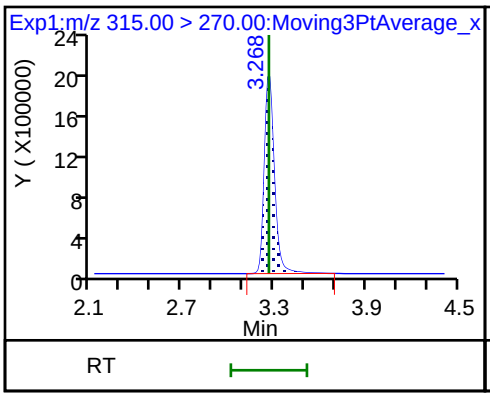

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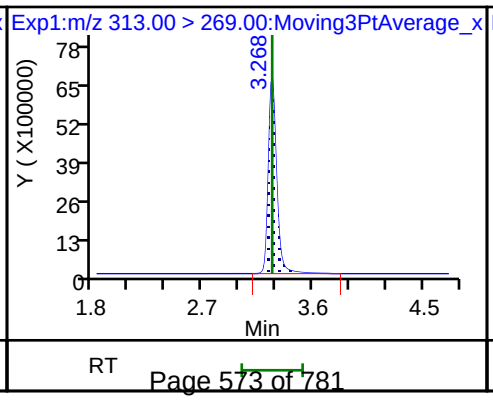
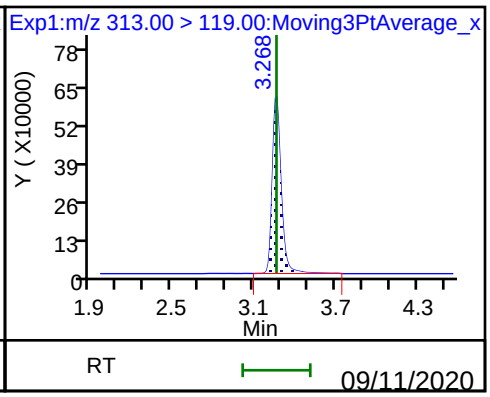
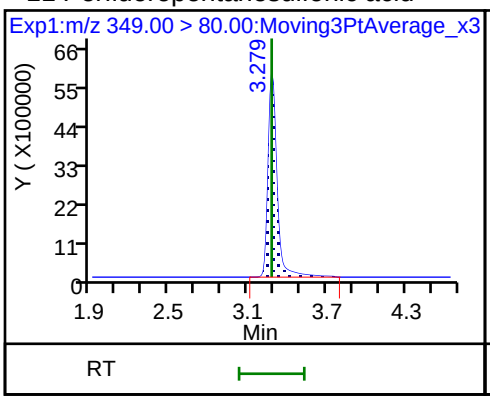


10 Perfluorohexanoic acid



11 Perfluoropentanesulfonic acid



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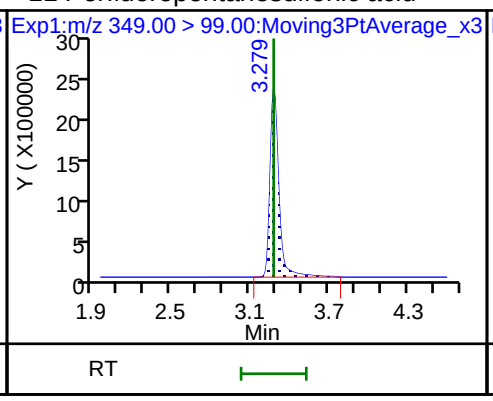
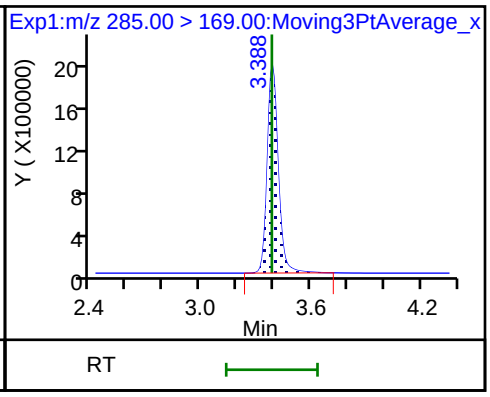
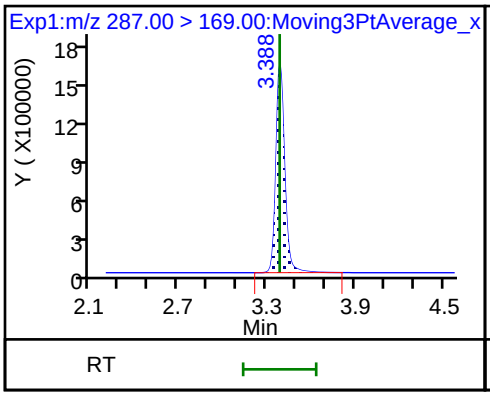


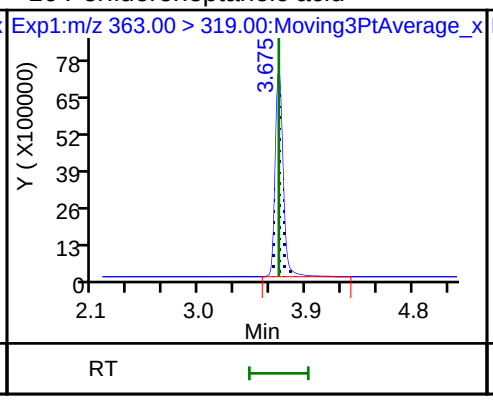
12 HPFO-DA



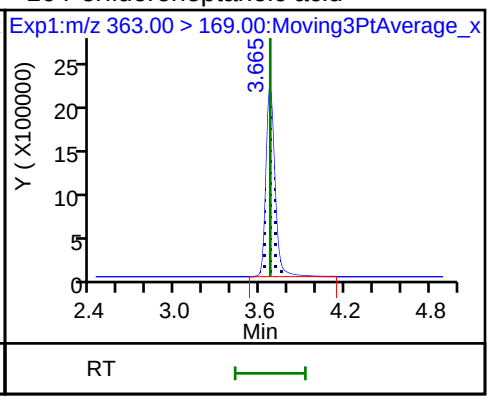
D 13 13C3 HFPO-DA



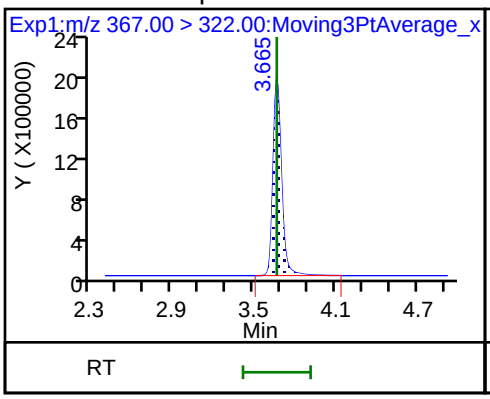
16 Perfluoroheptanoic acid



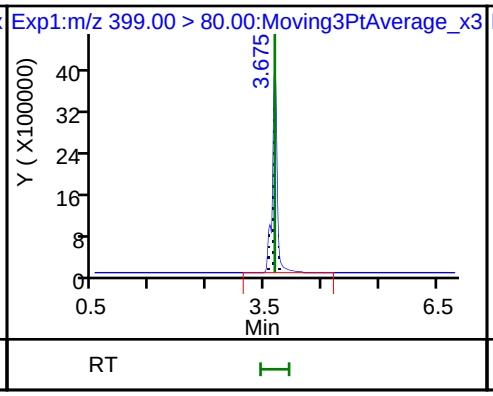
16 Perfluoroheptanoic acid



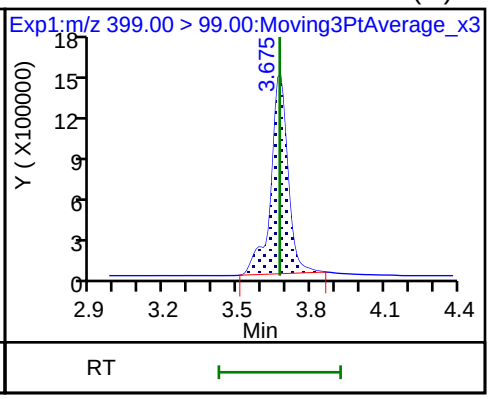
D 15 13C4 PFHpA



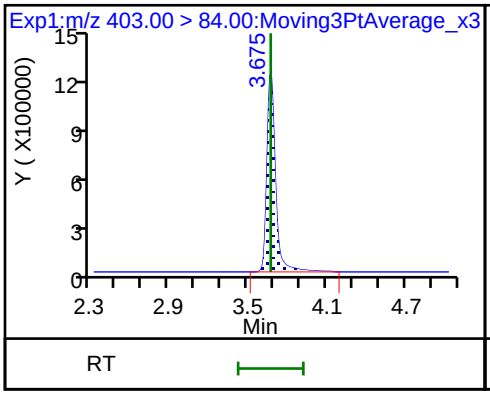
18 Perfluorohexanesulfonic acid



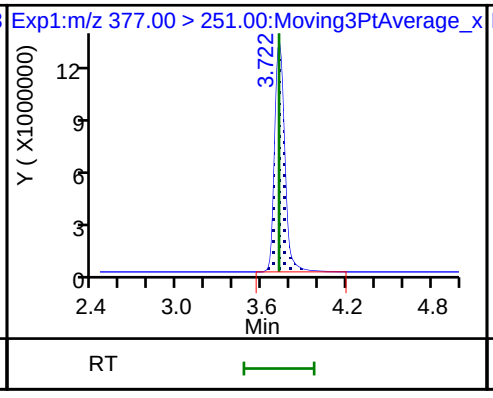
18 Perfluorohexanesulfonic acid (M)



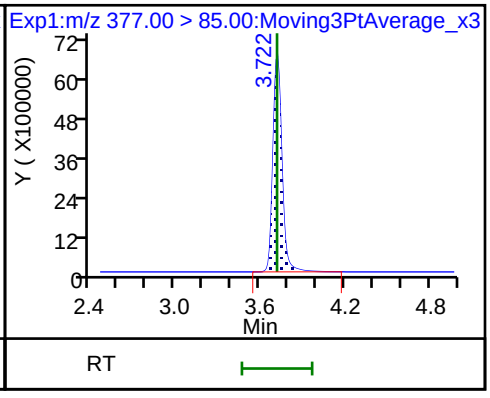
D 17 18O2 PFHxS



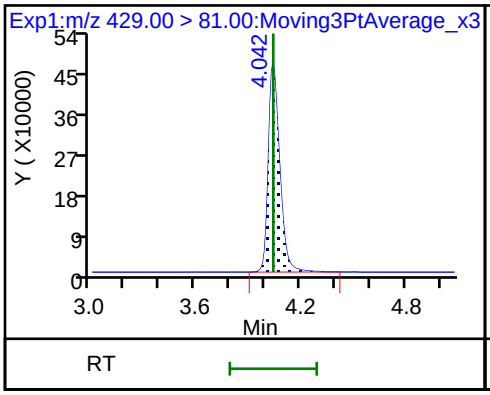
19 DONA



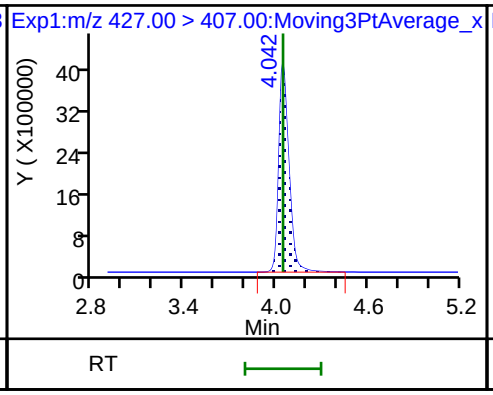
19 DONA



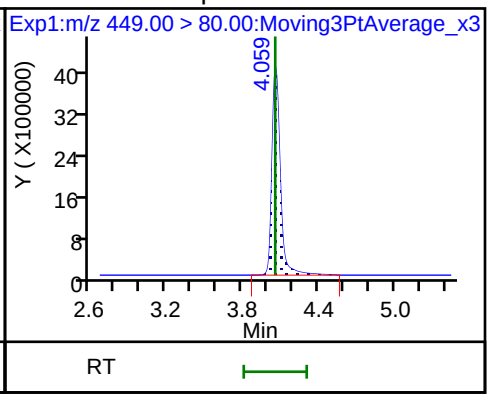
D 20 M2-6:2 FTS



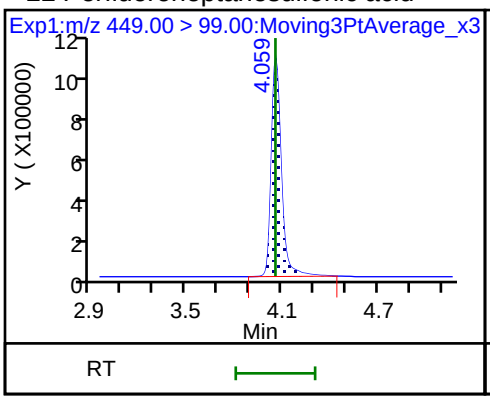
21 6:2 FTS



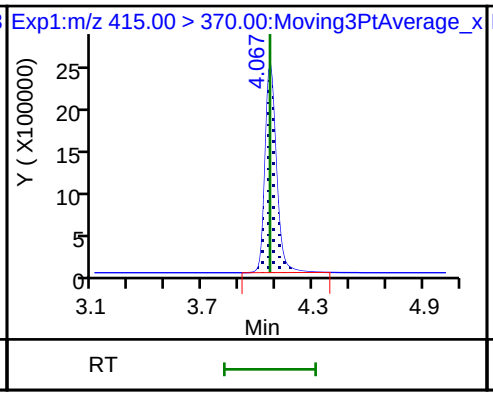
22 Perfluoroheptanesulfonic acid



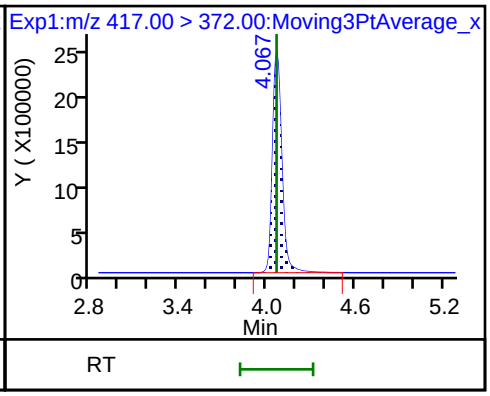
22 Perfluoroheptanesulfonic acid



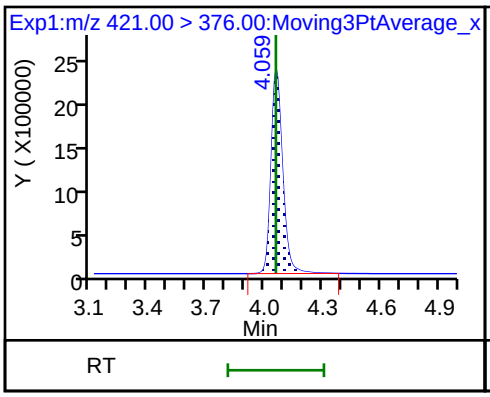
* 25 13C2 PFOA



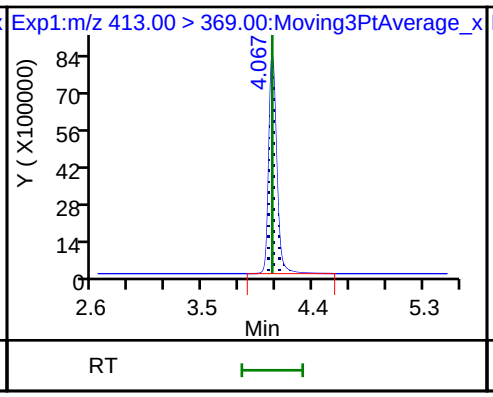
D 24 13C4 PFOA



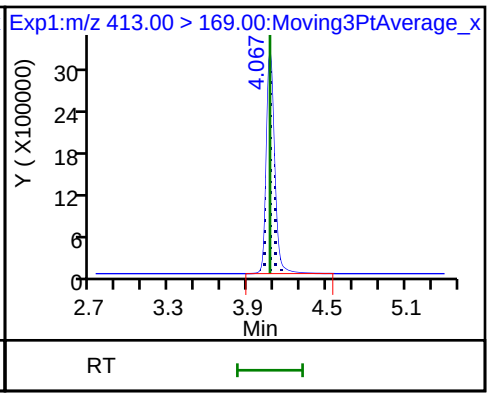
$ 23 13C8 PFOA



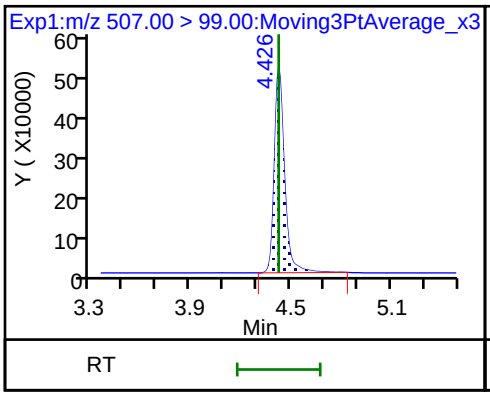
26 Perfluorooctanoic acid



26 Perfluorooctanoic acid



$ 27 13C8 PFOS



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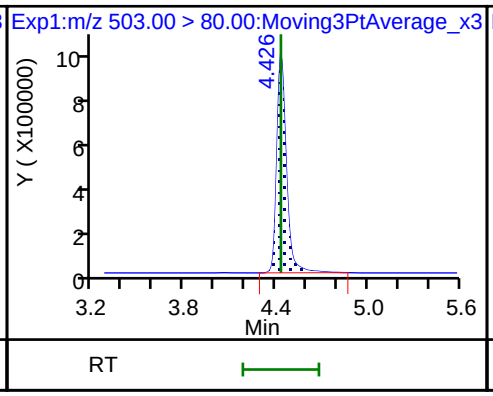
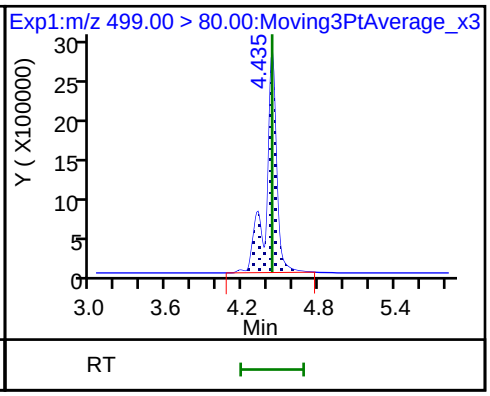
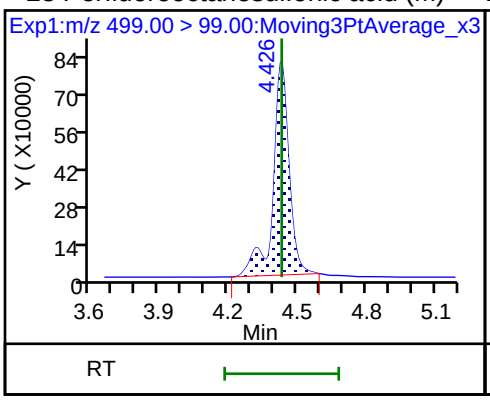


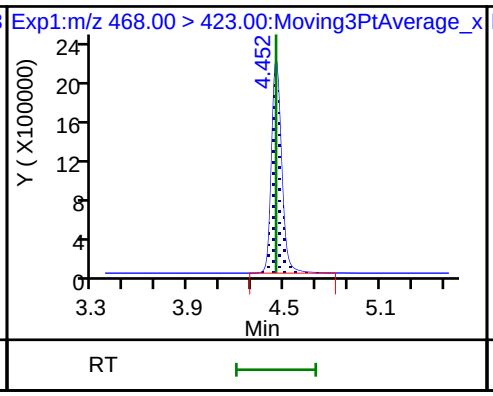
28 Perfluorooctanesulfonic acid



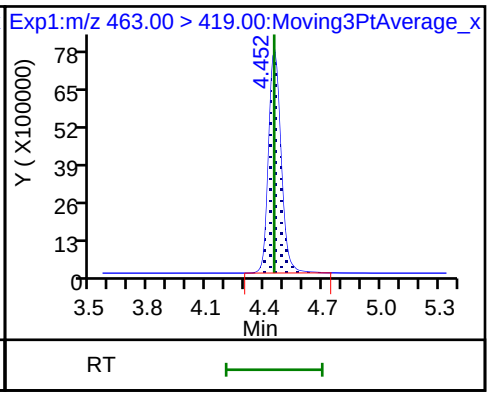
28 Perfluorooctanesulfonic acid (M)



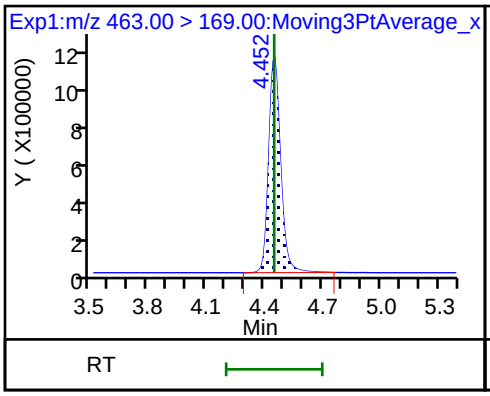
D 31 13C5 PFNA



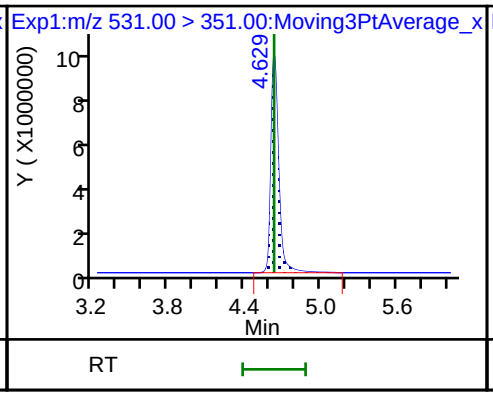
30 Perfluorononanoic acid



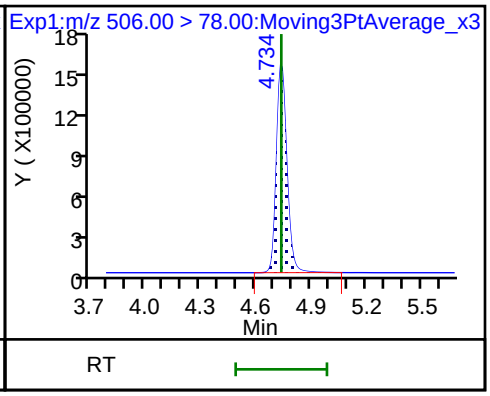
30 Perfluorononanoic acid



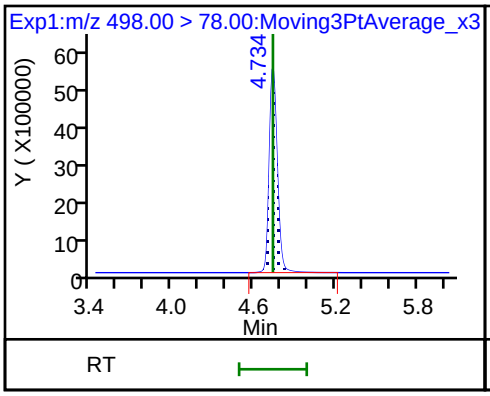
32 9ClFOS



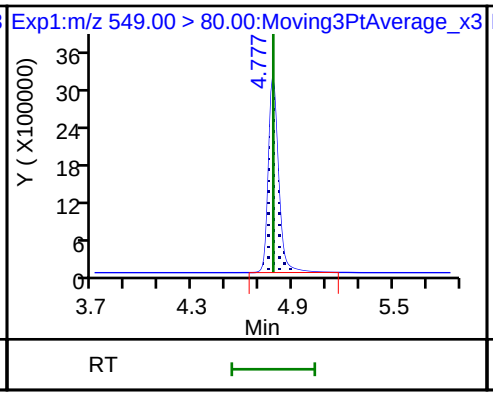
D 34 13C8 FOSA



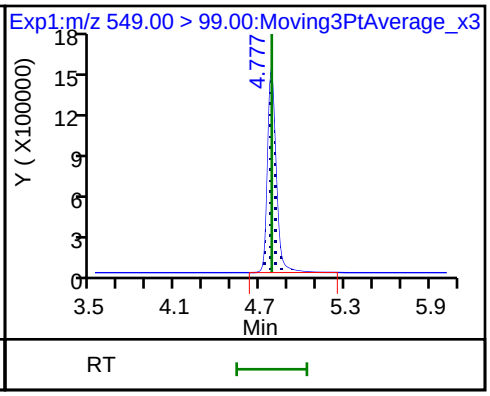
33 Perfluorooctanesulfonamide



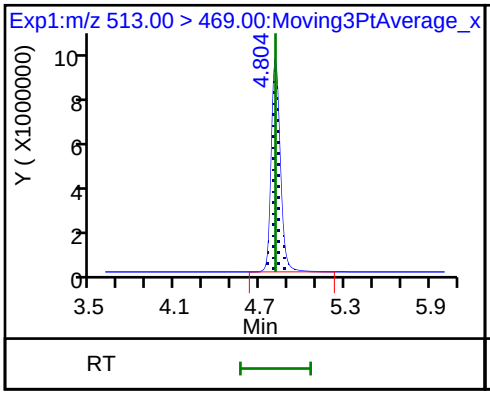
35 Perfluorononanesulfonic acid



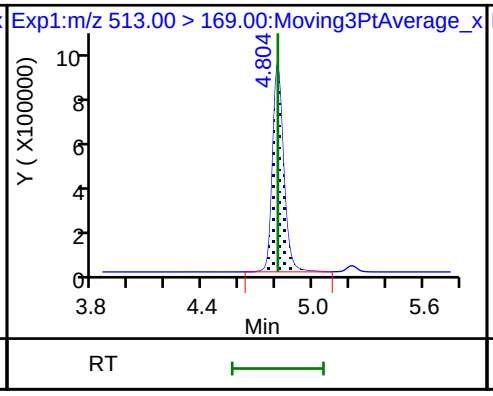
35 Perfluorononanesulfonic acid



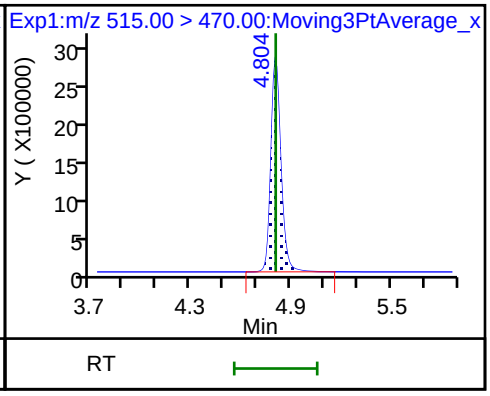
36 Perfluorodecanoic acid



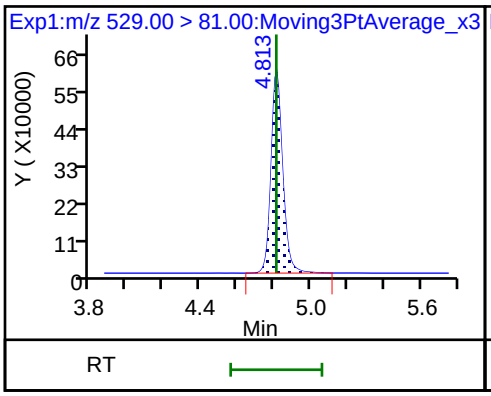
36 Perfluorodecanoic acid



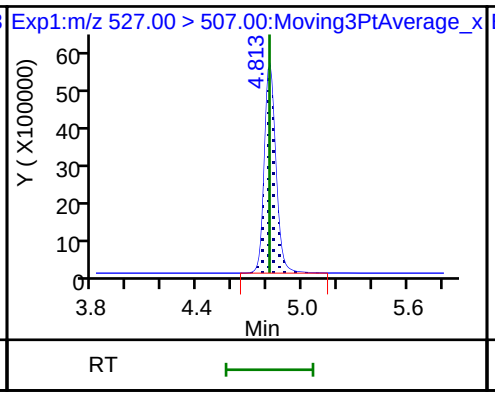
D 37 13C2 PFDA



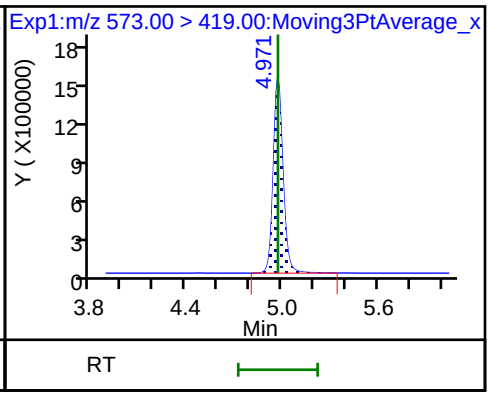
D 38 M2-8:2 FTS



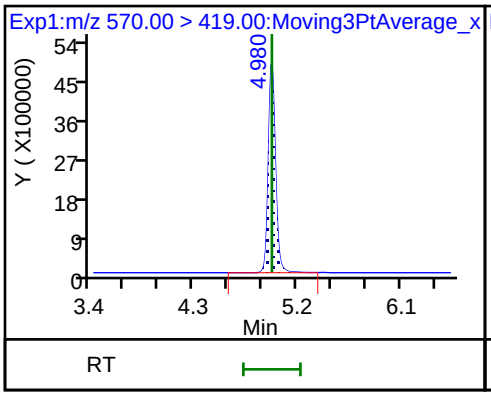
39 8:2 FTS



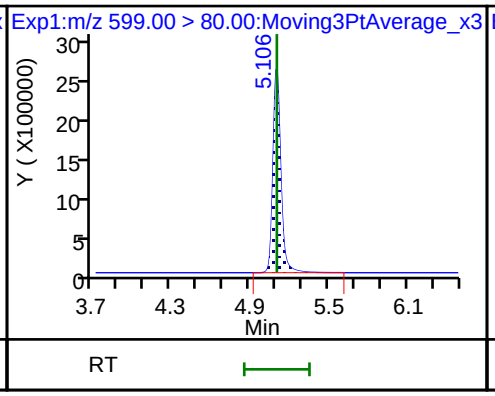
D 40 d3-NMeFOSAA



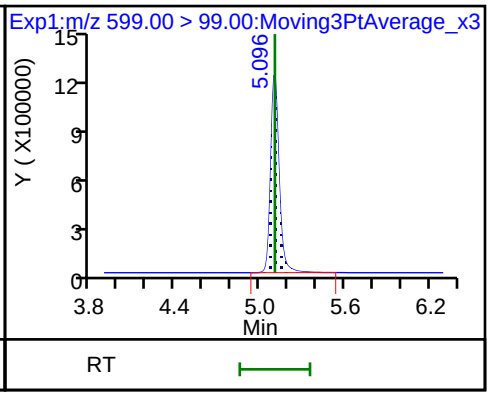
41 NMeFOSAA



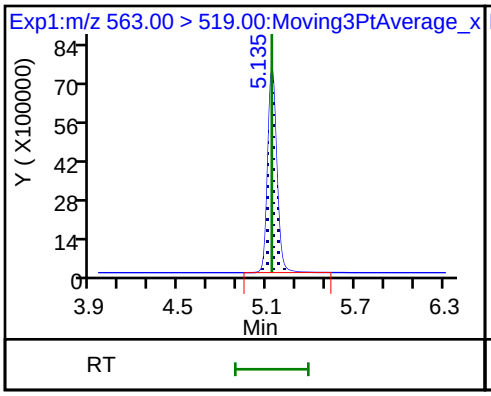
42 Perfluorodecanesulfonic acid



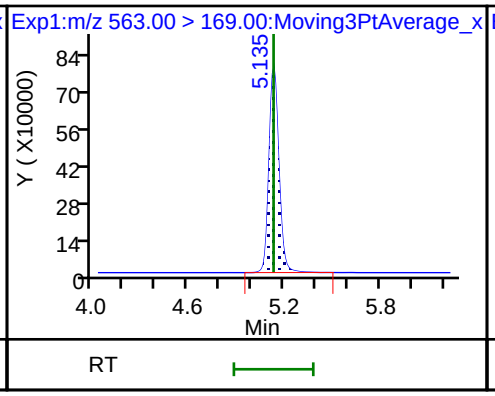
42 Perfluorodecanesulfonic acid



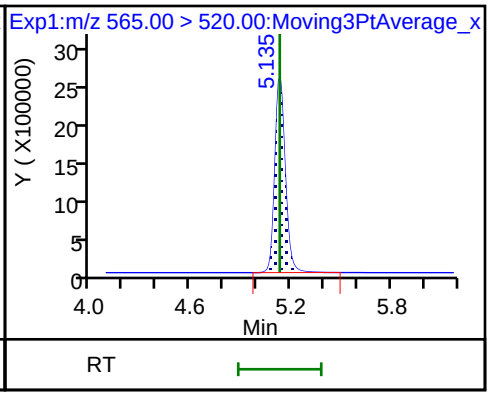
45 Perfluoroundecanoic acid



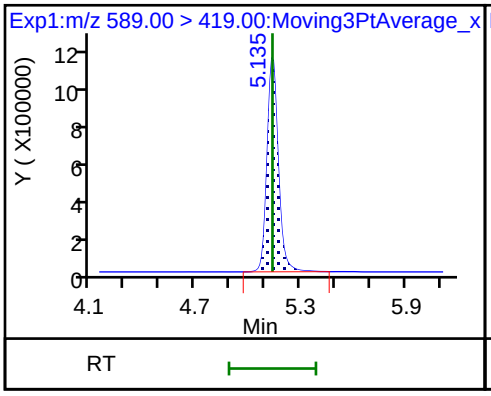
45 Perfluoroundecanoic acid



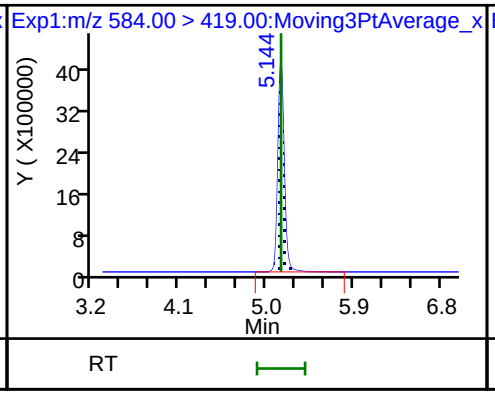
D 44 13C2 PFUnA



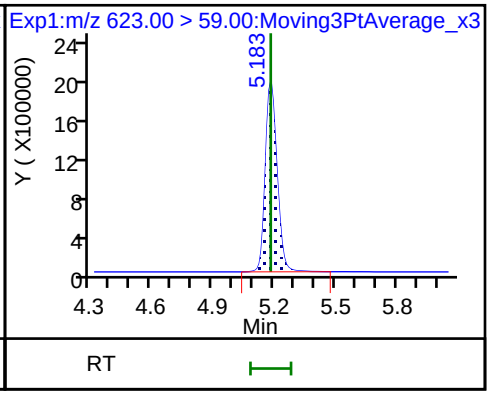
D 46 d5-NEtFOSAA



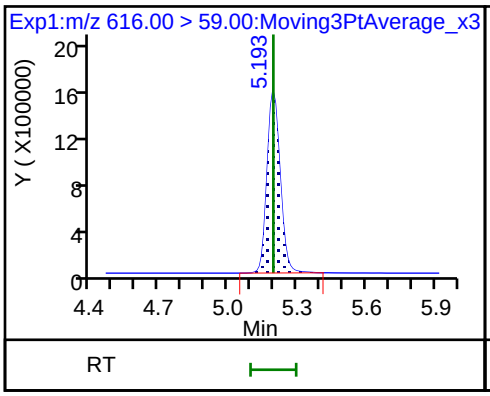
48 NEtFOSA



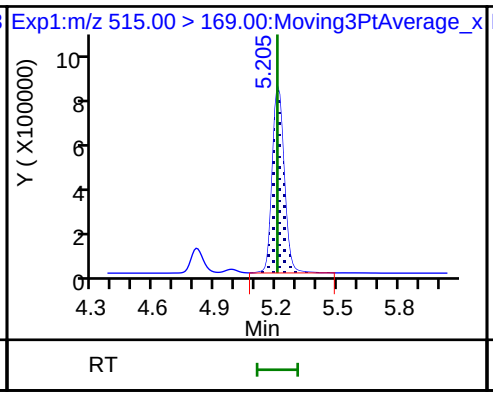
D 43 d7-N-MeFOSE-M



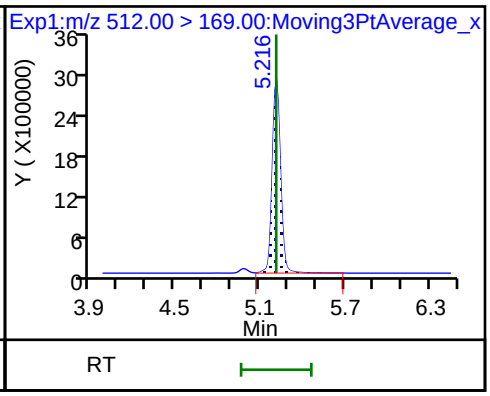
47 N-MeFOSE-M



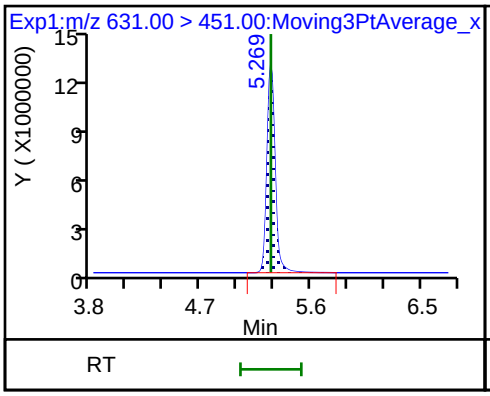
D 49 d-N-MeFOSA-M



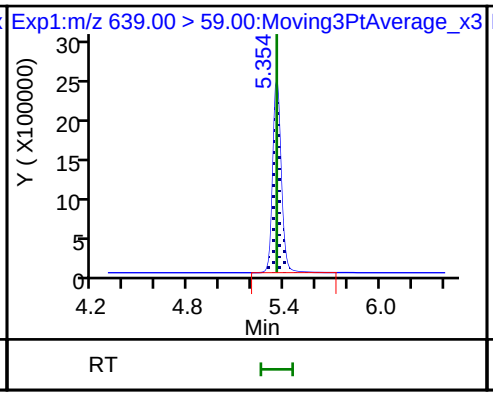
50 NMeFOSA



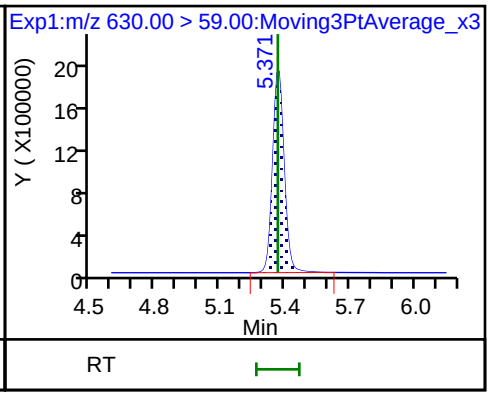
51 11ClFOS



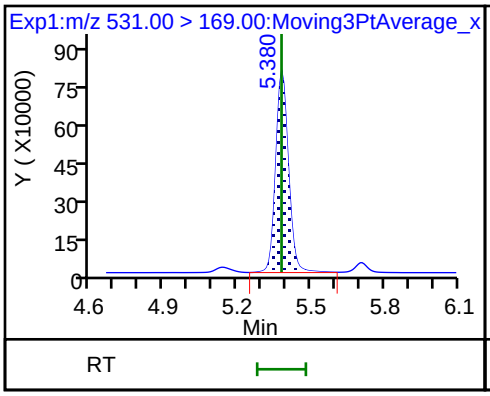
D 52 d9-N-EtFOSE-M



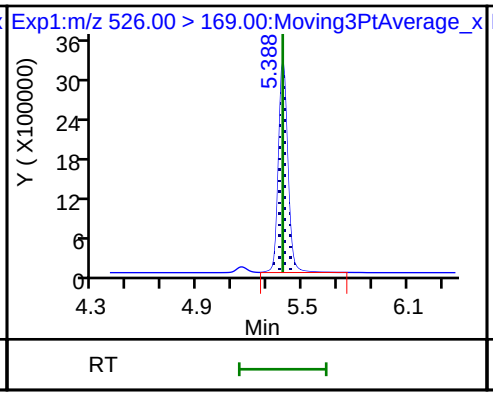
53 N-EtFOSE-M



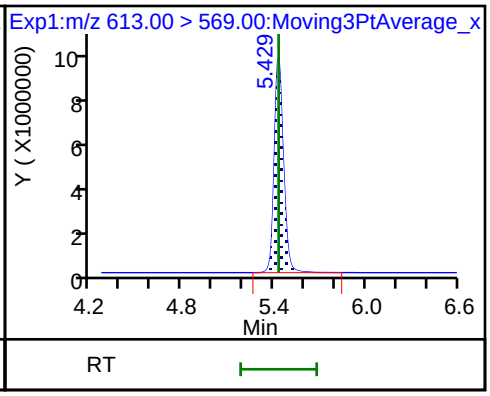
D 54 d-N-EtFOSA-M



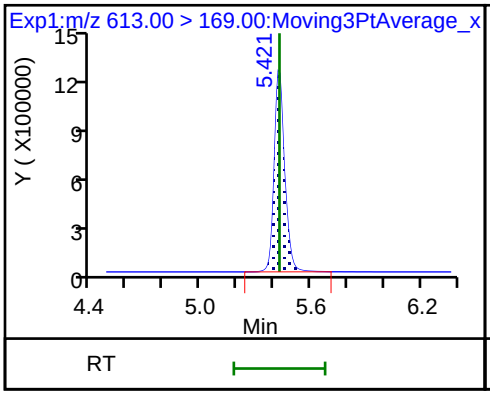
55 N-EtFOSA-M



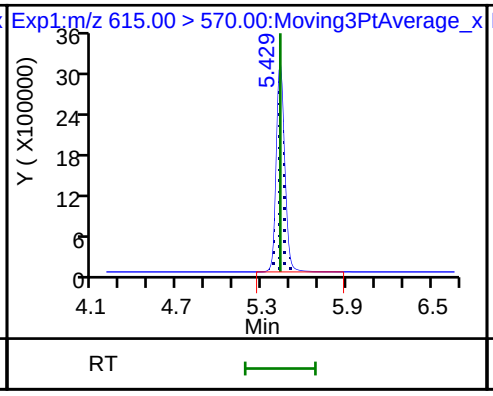
57 Perfluorododecanoic acid



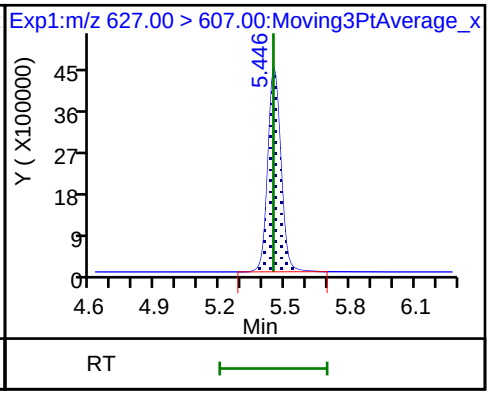
57 Perfluorododecanoic acid



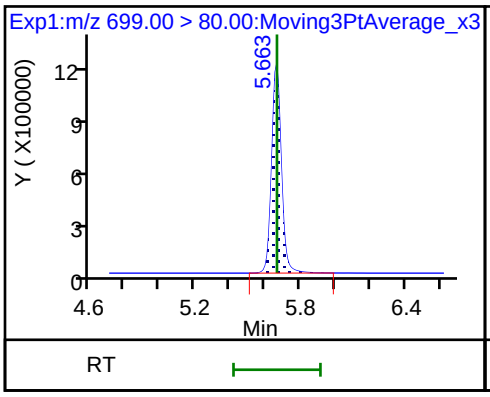
D 56 13C2 PFDoA



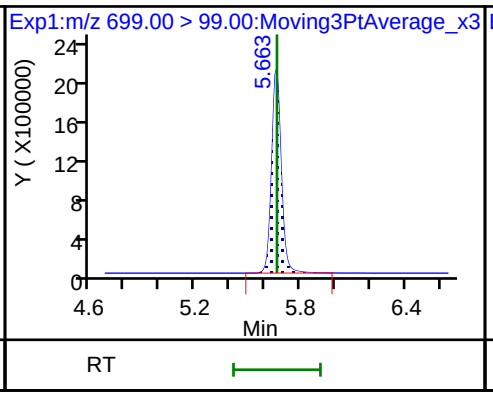
58 10:2 FTS



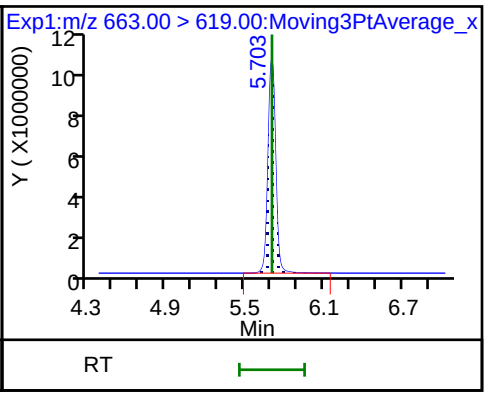
59 PFDoS



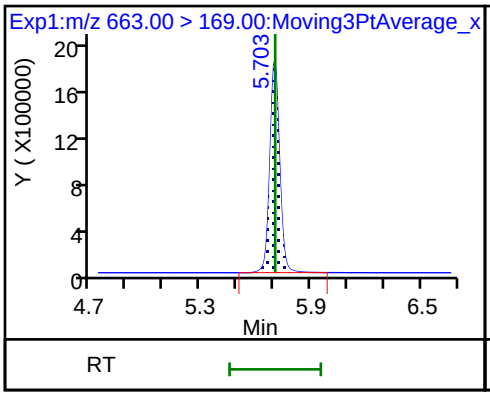
59 PFDoS



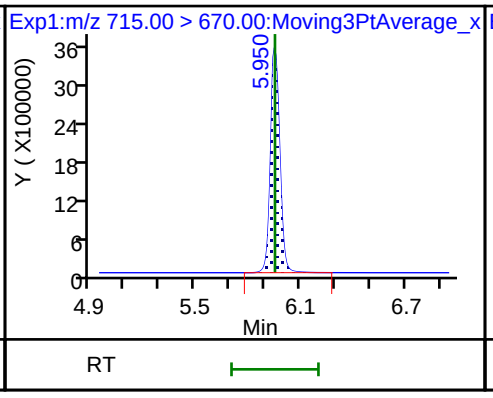
60 Perfluorotridecanoic acid



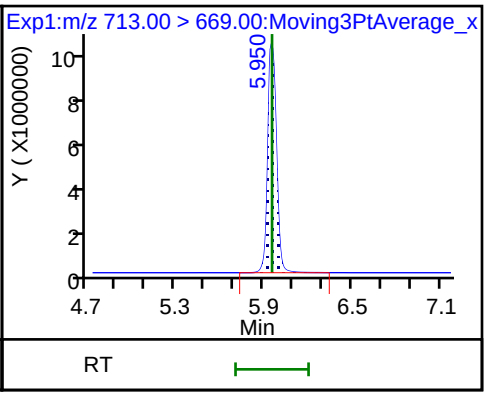
60 Perfluorotridecanoic acid



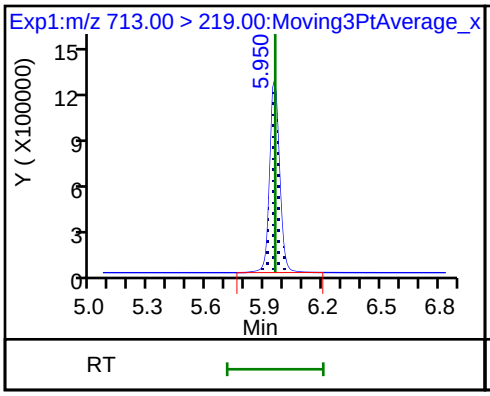
D 61 13C2 PFTeDA



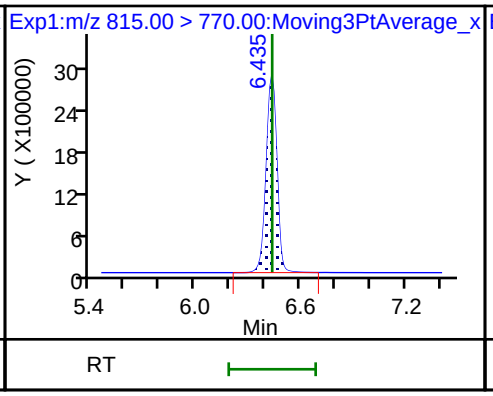
62 Perfluorotetradecanoic acid



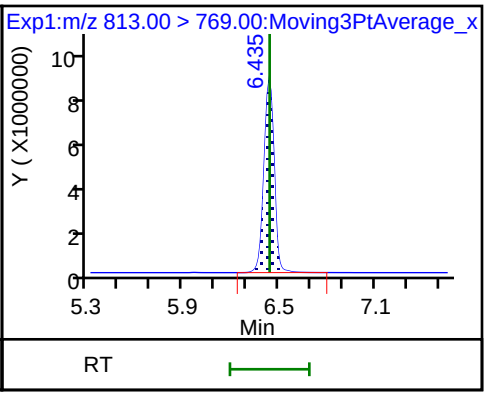
62 Perfluorotetradecanoic acid



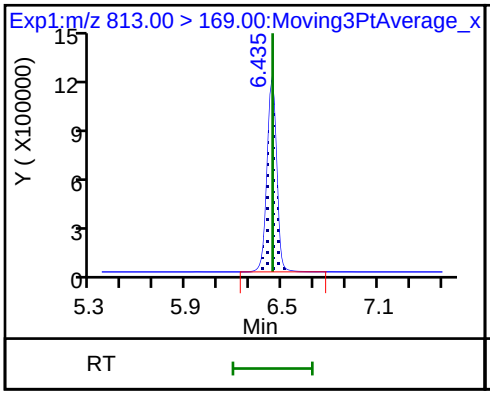
D 64 13C2 PFHxDA



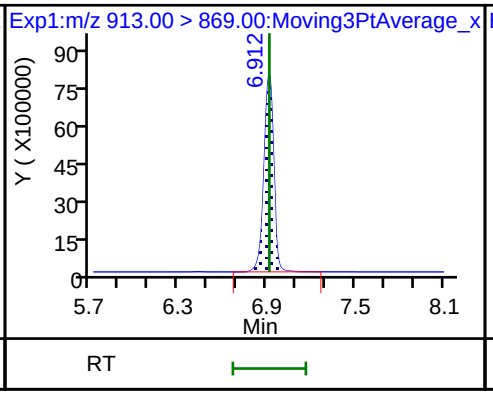
63 Perfluorohexadecanoic acid



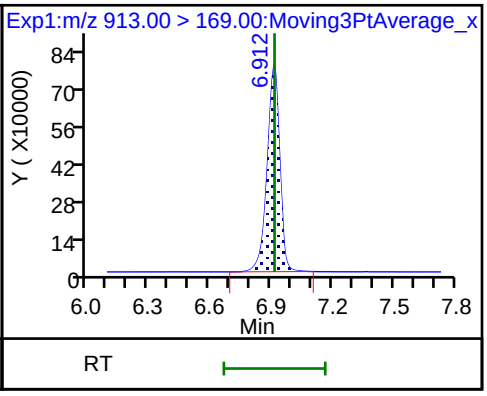
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

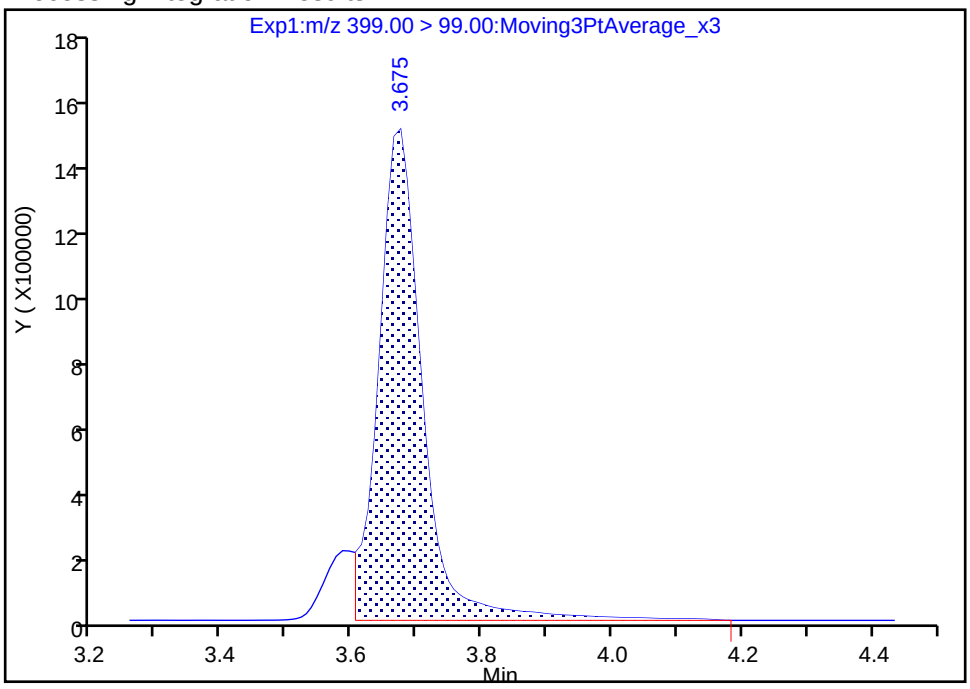
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d
Injection Date: 08-Sep-2020 18:58:15 Instrument ID: A13
Lims ID: IC STD 7
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

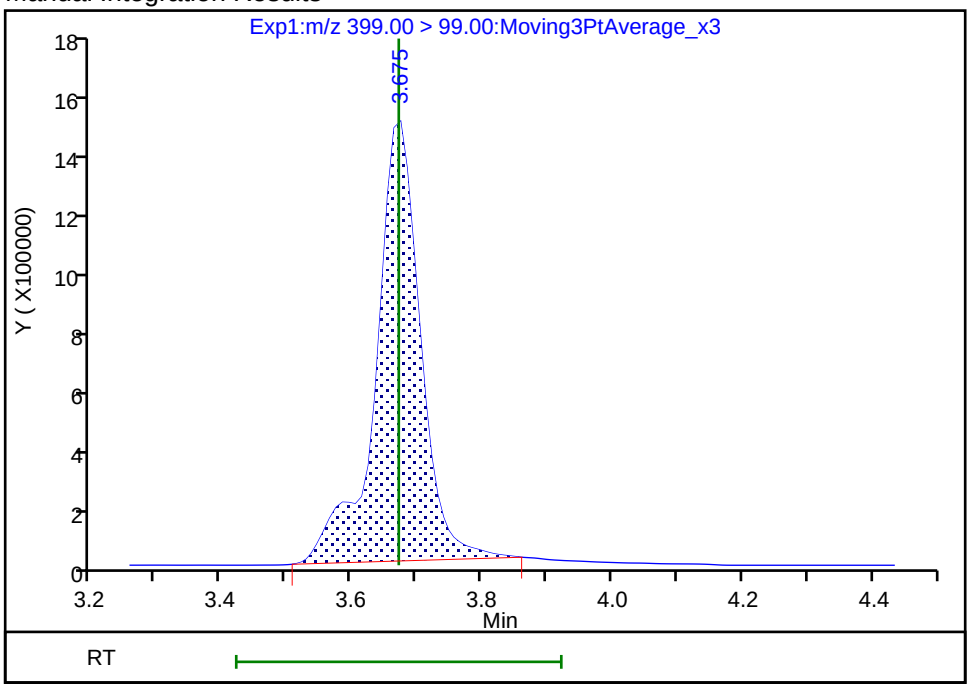
Processing Integration Results

RT: 3.67
Area: 6911789
Amount: 8.494022
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 7065635
Amount: 8.494022
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:35:02
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

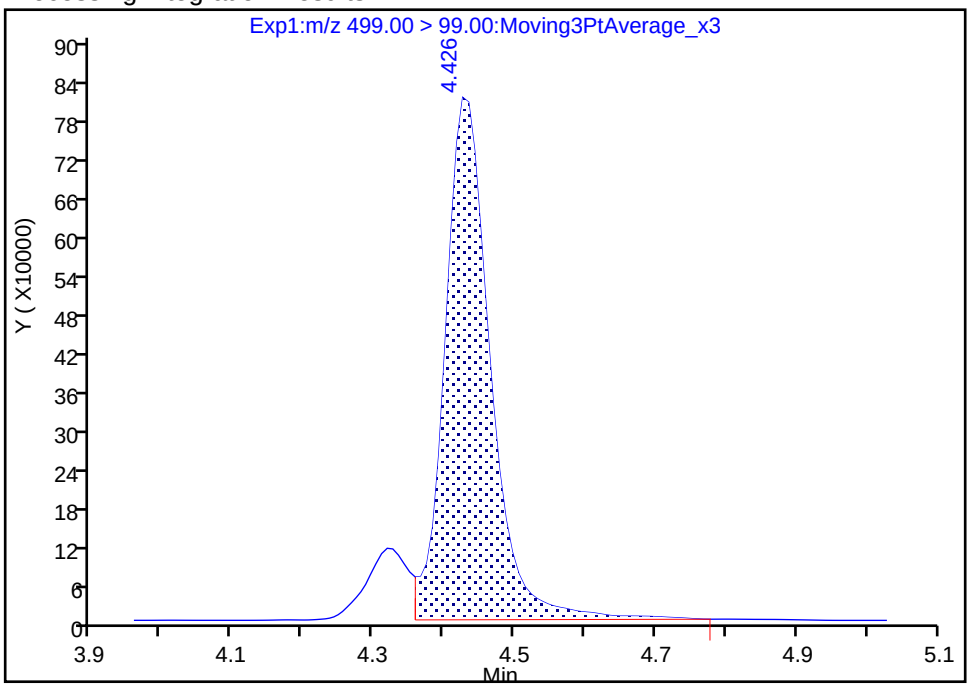
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d
Injection Date: 08-Sep-2020 18:58:15 Instrument ID: A13
Lims ID: IC STD 7
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

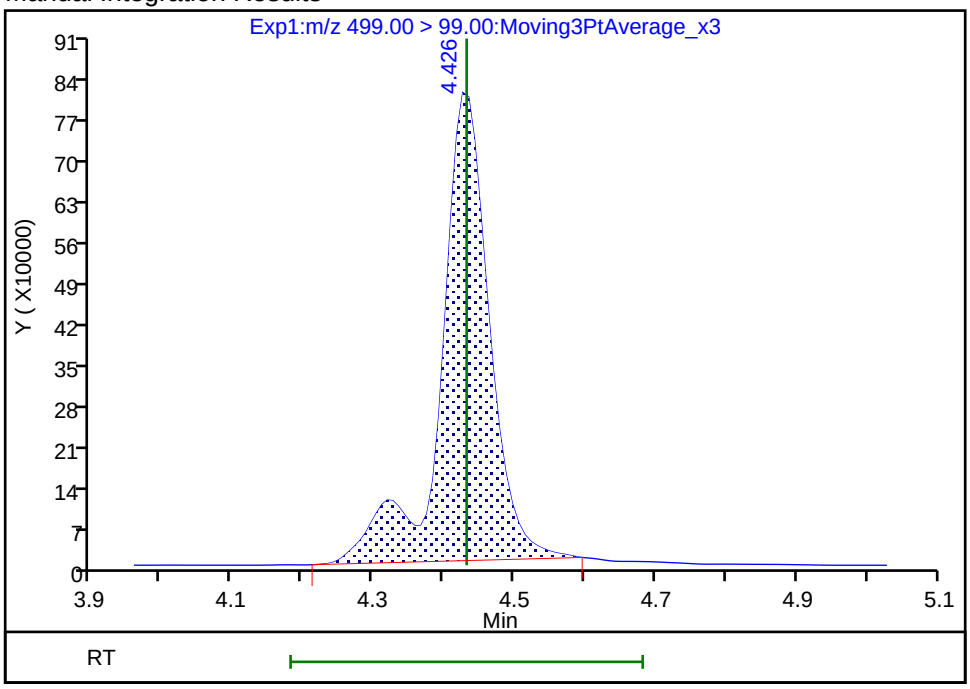
Processing Integration Results

RT: 4.43
Area: 3620654
Amount: 9.108009
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 3879549
Amount: 9.108009
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:35:12
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: ICV 320-410486/10 Calibration Date: 09/08/2020 19:17

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.08_A13_PFC_ICALX_012.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.7433	0.7837		2.64	2.50	5.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.028	0.9789		2.38	2.50	-4.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9776	1.006		2.57	2.50	2.9	50.0
4:2 FTS	AveID	3.243	3.297		2.37	2.34	1.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9294	1.008		2.71	2.50	8.5	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7896	0.8066		2.40	2.35	2.2	50.0
HFPO-DA (GenX)	AveID	0.2972	0.3099		2.61	2.50	4.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.011		2.50	2.50	0.0	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.112	1.092		2.46	2.50	-1.8	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.136	5.229		2.55	2.50	1.8	50.0
6:2 FTS	AveID	2.407	2.370		2.33	2.37	-1.5	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.139	1.119		2.34	2.38	-1.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.023	0.9807		2.40	2.50	-4.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.038	0.9888		2.38	2.50	-4.8	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9494	1.045		2.75	2.50	10.1	40.0
F-53B Major	AveID	2.501	2.596		2.59	2.50	3.8	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9383	0.9695		2.58	2.50	3.3	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7747	0.8108		2.51	2.40	4.7	50.0
8:2 FTS	AveID	2.472	2.522		2.44	2.40	2.0	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.8964	0.9635		2.69	2.50	7.5	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8055	0.8058		2.50	2.50	0.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6588	0.6512		2.38	2.41	-1.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6615	0.6064		2.29	2.50	-8.3	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7741	0.7480		2.42	2.50	-3.4	40.0
NMeFOSE	AveID	1.065	1.049		2.46	2.50	-1.4	40.0
NMeFOSA	AveID	0.9832	0.7770		1.98	2.50	-21.0	50.0
F-53B Minor	AveID	4.317	4.512		2.61	2.50	4.5	50.0
NEtFOSE	AveID	1.035	0.9731		2.35	2.50	-6.0	40.0
NEtFOSA	AveID	1.062	0.8513		2.00	2.50	-19.8	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9122	0.9187		2.52	2.50	0.7	40.0
10:2 FTS	AveID	1.632	1.678		2.48	2.41	2.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2572	0.2704		2.54	2.42	5.1	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

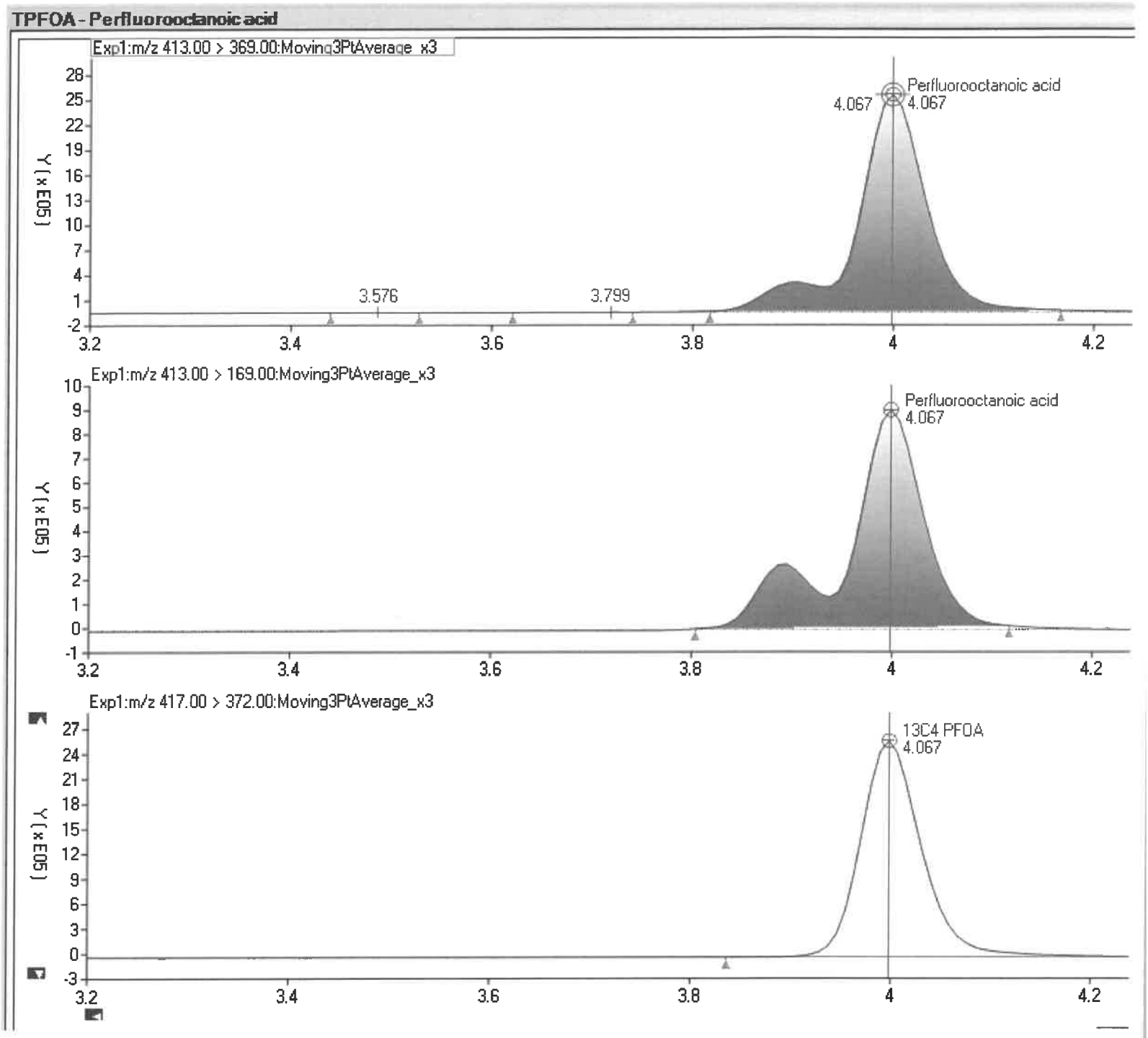
Lab Sample ID: ICV 320-410486/10 Calibration Date: 09/08/2020 19:17

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.08_A13_PFC_ICALX_012.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	0.8839		2.36	2.50	-5.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.9843	1.031		2.62	2.50	4.7	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8924		2.32	2.50	-7.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7306	0.7422		2.54	2.50	1.6	50.0
13C4 PFBA	Ave	0.8499	0.8332		2.45	2.50	-2.0	50.0
13C5 PFPeA	Ave	0.6625	0.6462		2.44	2.50	-2.5	50.0
13C3 PFBS	Ave	0.8317	0.8581		2.40	2.33	3.2	50.0
M2-4:2 FTS	Ave	0.2037	0.2012		2.31	2.34	-1.3	50.0
13C2 PFHxA	Ave	0.8183	0.8139		2.49	2.50	-0.5	50.0
13C3 HFPO-DA	Ave	0.5866	0.5805		2.47	2.50	-1.0	50.0
13C4 PFHpA	Ave	0.8058	0.8261		2.56	2.50	2.5	50.0
18O2 PFHxS	Ave	0.5449	0.5684		2.47	2.37	4.3	50.0
M2-6:2 FTS	Ave	0.2349	0.2294		2.32	2.38	-2.3	50.0
13C4 PFOA	Ave	0.9849	0.9636		2.45	2.50	-2.2	50.0
13C4 PFOS	Ave	0.3888	0.3888		2.39	2.39	0.0	50.0
13C5 PFNA	Ave	0.9099	0.9430		2.59	2.50	3.6	50.0
13C8 FOSA	Ave	0.5585	0.5616		2.51	2.50	0.6	50.0
13C2 PFDA	Ave	1.102	1.121		2.54	2.50	1.7	50.0
M2-8:2 FTS	Ave	0.3107	0.3062		2.36	2.40	-1.5	50.0
d3-NMeFOSAA	Ave	0.5682	0.5495		2.42	2.50	-3.3	50.0
13C2 PFUnA	Ave	1.078	1.150		2.67	2.50	6.7	50.0
d5-NEtFOSAA	Ave	0.5501	0.5660		2.57	2.50	2.9	50.0
d7-N-MeFOSE-M	Ave	0.1398	0.1362		12.2	12.5	-2.6	50.0
d-N-MeFOSA-M	Ave	0.2628	0.2722		2.59	2.50	3.6	50.0
d9-N-EtFOSE-M	Ave	0.1640	0.1652		12.6	12.5	0.7	50.0
d-N-EtFOSA-M	Ave	0.2510	0.2503		2.49	2.50	-0.3	50.0
13C2 PFDoA	Ave	1.160	1.169		2.52	2.50	0.8	50.0
13C2 PFTeDA	Ave	1.146	1.221		2.66	2.50	6.6	50.0
13C2 PFHxDA	Ave	1.193	1.180		2.47	2.50	-1.0	50.0
13C8 PFOA	Ave	0.8908	0.8710		2.39	2.45	-2.2	50.0
13C8 PFOS	Ave	0.2076	0.2073		2.39	2.39	-0.1	50.0


TPFOA - Perfluorooctanoic acid
Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x3
Perfluorooctanoic acid
4.067
4.067
3.576
3.799
Y [x E05]
Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3
Perfluorooctanoic acid
4.067
Y [x E05]
Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x3
13C4 PFOA
4.067
Y [x E05]

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_012.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 19:17:01 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV (44)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist:

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:25:31 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 09:43:58
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.475	0.0	0.610	9374238	2.45		98.0	29313	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.482	-0.007	1.000	7346636	2.64			3071	
D 4 13C5 PFPeA										
267.90 > 223.00	2.867	2.866	0.001	0.706	7269695	2.44		97.5	17451	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.878	-0.011	1.000	7116538	2.38			1258	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.718	8978194	2.40		103	21091	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	9710103	2.57	Target=2.18		12076	
298.90 > 99.00	2.913	2.913	0.0	1.000	4582049		2.12(1.09-3.26)		2798	
7 4:2 FTS										
327.00 > 307.00	3.215	3.225	-0.010	1.000	6968509	2.37			43172	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.215	3.225	-0.010	0.792	2113865	2.31		98.7	1403	
D 9 13C2 PFHxA										
315.00 > 270.00	3.258	3.268	-0.010	0.803	9156947	2.49		99.5	30385	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.258	3.268	-0.010	1.000	9232974	2.71	Target=11.68		1356	
313.00 > 119.00	3.258	3.268	-0.010	1.000	763317		12.10(5.84-17.52)		269	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	7303820	2.40	Target=2.56		11891	
349.00 > 99.00	3.279	3.279	0.0	1.126	2706498		2.70(1.28-3.84)		1079	
12 HPFO-DA										
285.00 > 169.00	3.380	3.388	-0.008	1.000	2023922	2.61			3326	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.380	3.388	-0.008	0.833	6530908	2.47		99.0	5031	
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.665	0.0	0.903	9294602	2.56		103	5852	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.665	3.675	-0.010	1.000	9398836	2.50	Target=3.85		1444	
363.00 > 169.00	3.665	3.675	-0.010	1.000	2400747		3.91(1.92-5.77)		1386	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.665	3.675	-0.010	1.000	6986123	2.46	Target=3.25		492	
399.00 > 99.00	3.665	3.675	-0.010	1.000	2148966		3.25(1.62-4.87)		337	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.665	3.675	-0.010	0.903	6049698	2.47		104	41874	
19 DONA										
377.00 > 251.00	3.714	3.722	-0.008	0.839	22876394	2.55	Target=2.76		36438	
377.00 > 85.00	3.714	3.722	-0.008	0.839	8215963		2.78(1.38-4.14)		10294	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.034	4.042	-0.008	0.994	2452326	2.32		97.7	4363	
21 6:2 FTS										
427.00 > 407.00	4.034	4.042	-0.008	1.000	5799874	2.33			6019	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.051	4.059	-0.008	0.915	4660138	2.34	Target=4.29		3451	
449.00 > 99.00	4.051	4.059	-0.008	0.915	1113012		4.19(2.15-6.44)		684	
$ 23 13C8 PFOA										
421.00 > 376.00	4.051	4.059	-0.008	0.998	9593800	2.39		97.8	5692	
D 24 13C4 PFOA										
417.00 > 372.00	4.059	4.067	-0.008	1.000	10841053	2.45		97.8	8375	
* 25 13C2 PFOA										
415.00 > 370.00	4.059	4.067	-0.008		11250632	2.50			11389	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.059	4.067	-0.008	1.000	10631850	2.40	Target=2.95		2718	
413.00 > 169.00	4.059	4.067	-0.008	1.000	3654571		2.91(1.47-4.42)		355	
$ 27 13C8 PFOS										
507.00 > 99.00	4.425	4.426	-0.001	1.090	2229395	2.39		99.9	1931	
D 29 13C4 PFOS										
503.00 > 80.00	4.425	4.426	-0.001	1.090	4182151	2.39		100	3072	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.425	4.435	-0.010	1.000	4325845	2.38	Target=4.28		1036	
499.00 > 99.00	4.425	4.435	-0.010	1.000	991238		4.36(2.14-6.41)		358	M
D 31 13C5 PFNA										
468.00 > 423.00	4.442	4.452	-0.010	1.094	10609665	2.59		104	17951	
30 Perfluorononanoic acid										
463.00 > 419.00	4.442	4.452	-0.010	1.000	11087715	2.75	Target=8.00		2494	
463.00 > 169.00	4.442	4.452	-0.010	1.000	1484677		7.47(4.00-12.01)		1742	
32 9ClFOS										
531.00 > 351.00	4.627	4.629	-0.002	1.046	11354622	2.59			11793	
D 34 13C8 FOSA										
506.00 > 78.00	4.732	4.734	-0.002	1.166	6317907	2.51		101	6359	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.732	4.734	-0.002	1.000	6125059	2.58			5016	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.775	4.777	-0.002	1.079	3404985	2.51	Target=2.15		8329	
549.00 > 99.00	4.775	4.777	-0.002	1.079	1639724		2.08(1.08-3.23)		3389	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.802	4.804	-0.002	1.000	12147311	2.69	Target=10.44		4248	
513.00 > 169.00	4.802	4.804	-0.002	1.000	1159003		10.48(5.22-15.65)		496	
D 37 13C2 PFDA										
515.00 > 470.00	4.802	4.804	-0.002	1.183	12607006	2.54		102	45037	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.802	4.813	-0.011	1.183	3299874	2.36		98.5	7368	
39 8:2 FTS										
527.00 > 507.00	4.802	4.813	-0.011	1.000	8322904	2.44			11696	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.968	4.971	-0.003	1.224	6181841	2.42		96.7	2991	
41 NMeFOSAA										
570.00 > 419.00	4.968	4.980	-0.012	1.000	4981184	2.50			875	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.094	5.106	-0.012	1.151	2746100	2.38	Target=2.36		2091	
599.00 > 99.00	5.094	5.106	-0.012	1.151	1178138		2.33(1.18-3.54)		1865	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.132	5.135	-0.003	1.000	7847578	2.29	Target=8.67		2665	
563.00 > 169.00	5.132	5.135	-0.003	1.000	973607		8.06(4.34-13.01)		1585	
D 44 13C2 PFUnA										
565.00 > 520.00	5.132	5.135	-0.003	1.264	12941659	2.67		107	15410	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.132	5.135	-0.003	1.264	6367370	2.57		103	4356	
48 NEtFOSA										
584.00 > 419.00	5.142	5.144	-0.002	1.002	4762734	2.42			1484	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.180	5.183	-0.003	1.276	7660584	12.2		97.4	2495	
47 N-MeFOSE-M										
616.00 > 59.00	5.190	5.193	-0.003	1.002	1607879	2.46			1491	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.200	5.205	-0.005	1.281	3061963	2.59		104	41.2	
50 NMeFOSA										
512.00 > 169.00	5.212	5.216	-0.004	1.002	2379204	1.98			201	
51 11ClFOS										
631.00 > 451.00	5.265	5.269	-0.004	1.190	19738003	2.61			5172	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.350	5.354	-0.004	1.318	9291378	12.6		101	3532	
53 N-EtFOSE-M										
630.00 > 59.00	5.367	5.371	-0.004	1.003	1808302	2.35			1536	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.376	5.380	-0.004	1.325	2815518	2.49		99.7	179	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.384	5.388	-0.004	1.002	2396746	2.00			185	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.426	5.429	-0.003	1.000	12087521	2.52	Target=9.05		5041	
613.00 > 169.00	5.426	5.429	-0.003	1.000	1349359		8.96(4.52-13.57)		2635	
D 56 13C2 PFDoA										
615.00 > 570.00	5.426	5.429	-0.003	1.337	13157507	2.52		101	4567	
58 10:2 FTS										
627.00 > 607.00	5.442	5.446	-0.004	1.133	5572224	2.48			3633	
59 PFDoS										
699.00 > 80.00	5.657	5.663	-0.006	1.279	1144991	2.54	Target=0.57		2162	
699.00 > 99.00	5.657	5.663	-0.006	1.279	2014285		0.57(0.29-0.86)		3405	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.698	5.703	-0.005	1.050	11630013	2.36	Target=7.06		8034	
663.00 > 169.00	5.698	5.703	-0.005	1.050	1636752		7.11(3.53-10.59)		1987	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.944	5.950	-0.006	1.464	13738968	2.66		107	30151	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.944	5.950	-0.006	1.000	14165086	2.62	Target=11.23		7649	
713.00 > 219.00	5.944	5.950	-0.006	1.000	1233160		11.49(5.62-16.85)		288	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.426	6.435	-0.009	1.583	13280912	2.47		99.0	9667	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.437	6.435	0.002	1.002	11852402	2.32	Target=9.45		2183	
813.00 > 169.00	6.437	6.435	0.002	1.002	1337717		8.86(4.72-14.17)		3126	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.905	6.912	-0.007	1.075	9857590	2.54	Target=11.13		2557	
913.00 > 169.00	6.905	6.912	-0.007	1.075	862082		11.43(5.56-16.69)		1780	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFCIC_FULL_00044 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:25:35 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_012.d

Injection Date: 08-Sep-2020 19:17:01 Instrument ID: A13

Lims ID: ICV

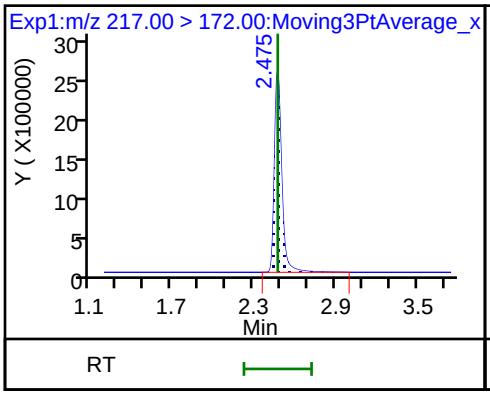
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 9 Worklist Smp#: 10

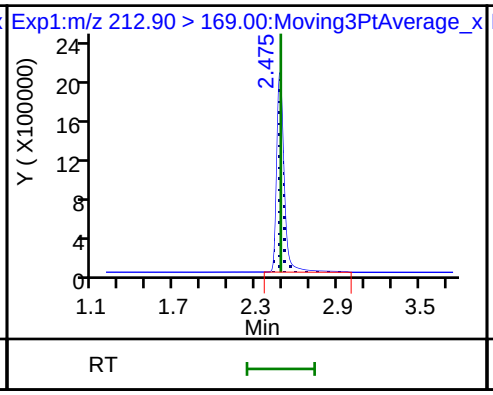
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

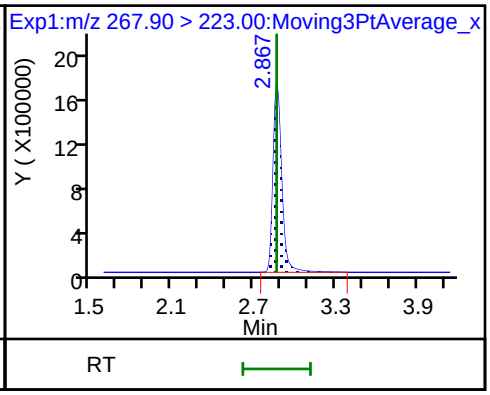
D 1 13C4 PFBA



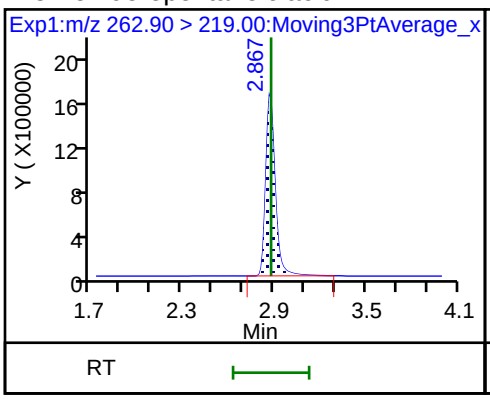
2 Perfluorobutanoic acid



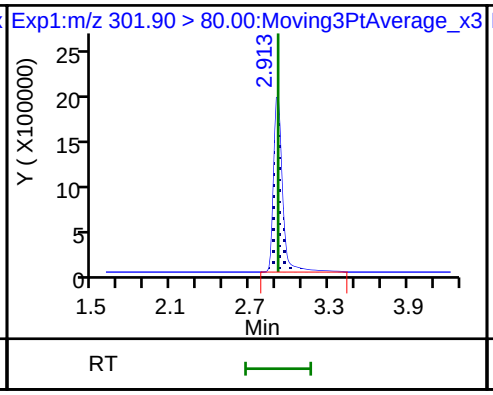
D 4 13C5 PFPeA



5 Perfluoropentanoic acid



D 14 13C3 PFBS



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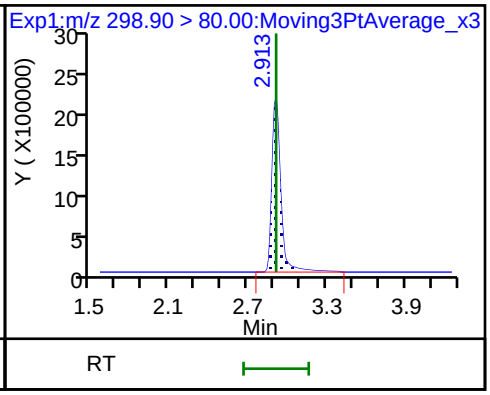

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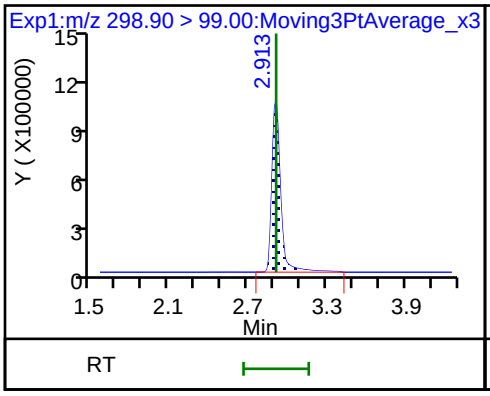
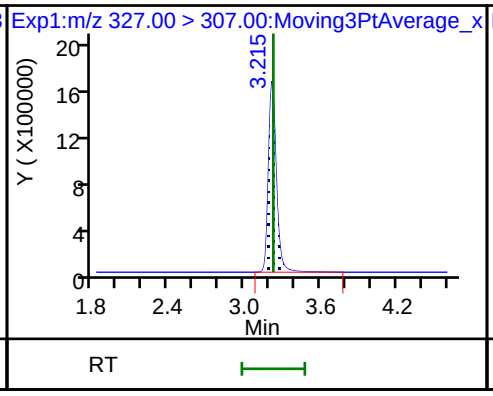
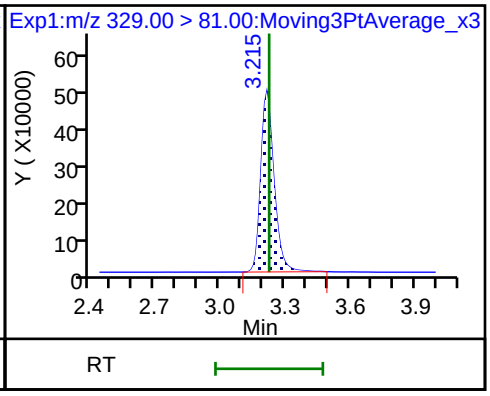


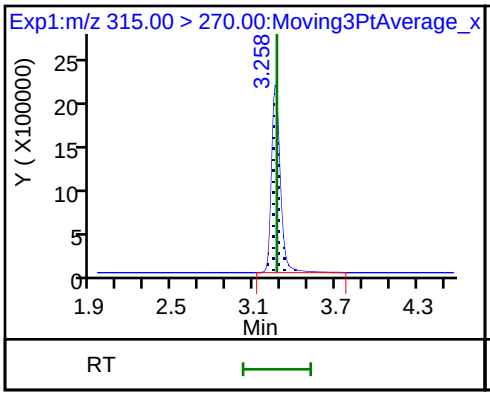
7 4:2 FTS



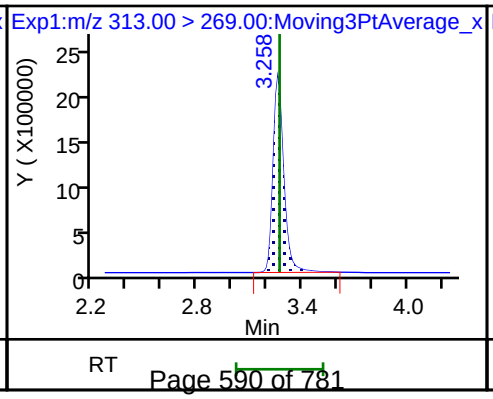
D 8 M2-4:2 FTS



D 9 13C2 PFHxA



10 Perfluorohexanoic acid



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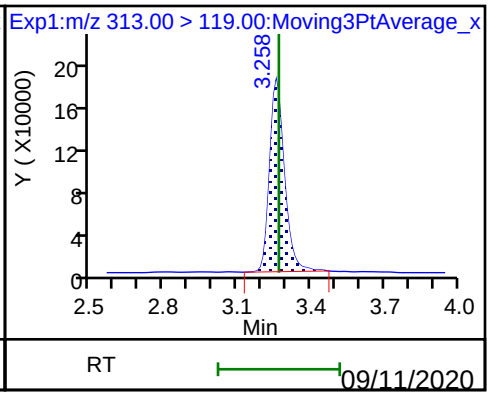

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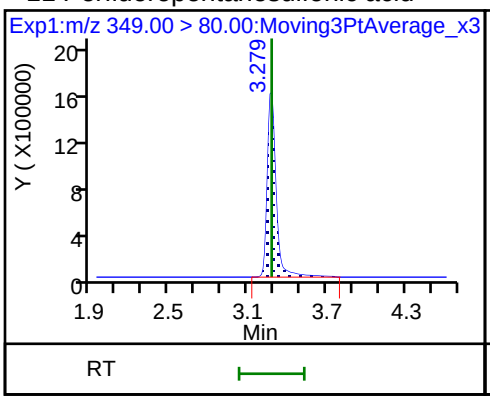

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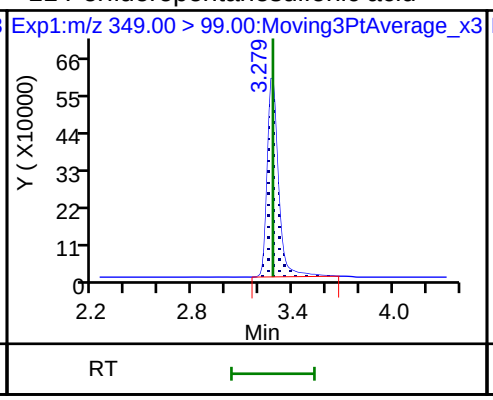
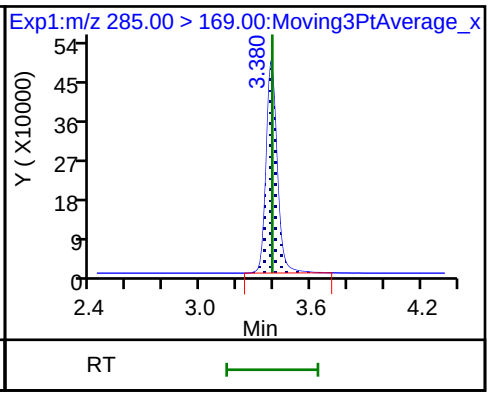
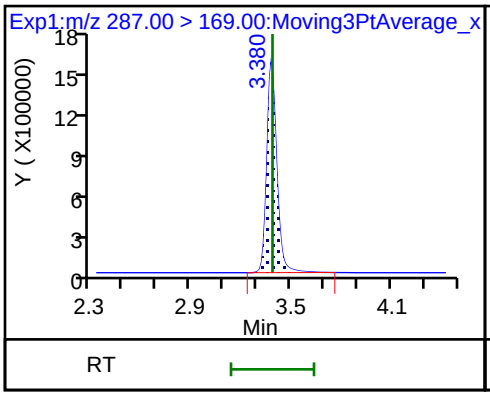


12 HPFO-DA



D 13 13C3 HFPO-DA



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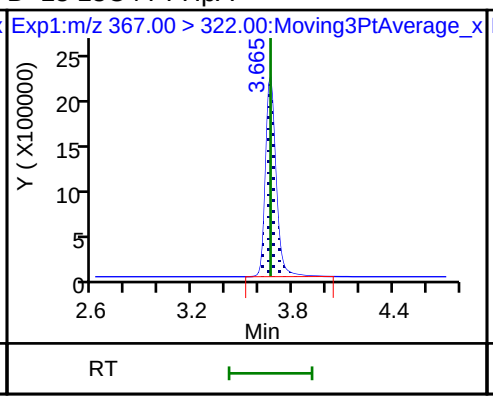
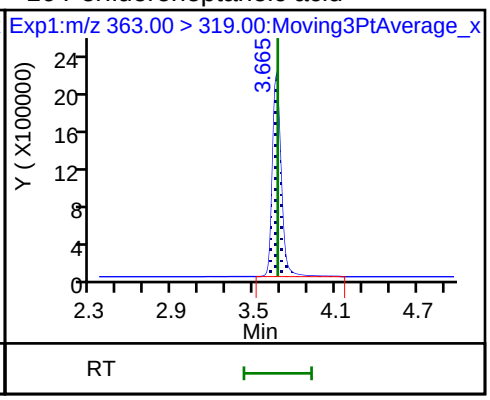


16 Perfluoroheptanoic acid



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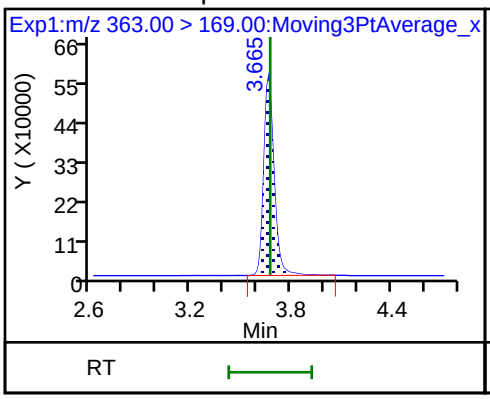
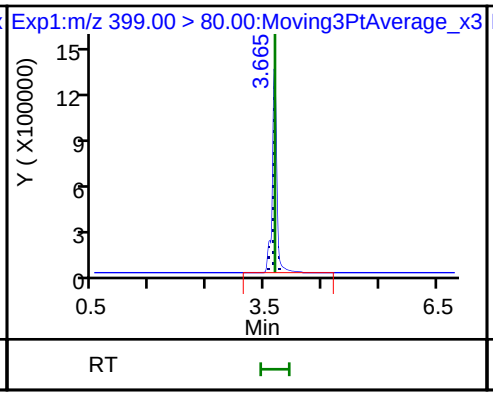
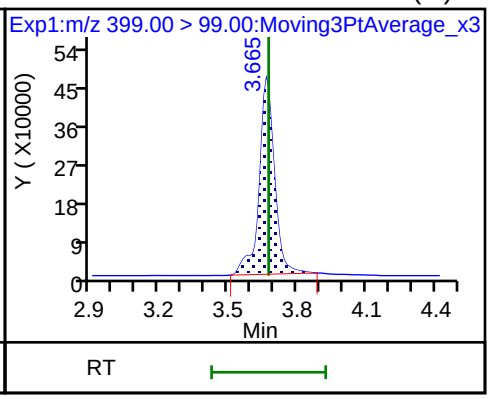


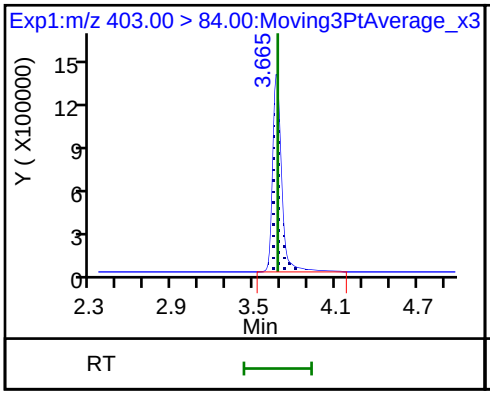
18 Perfluorohexanesulfonic acid



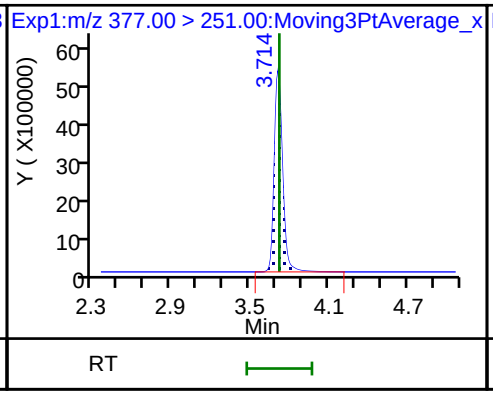
18 Perfluorohexanesulfonic acid (M)



D 17 18O2 PFHxS



19 DONA



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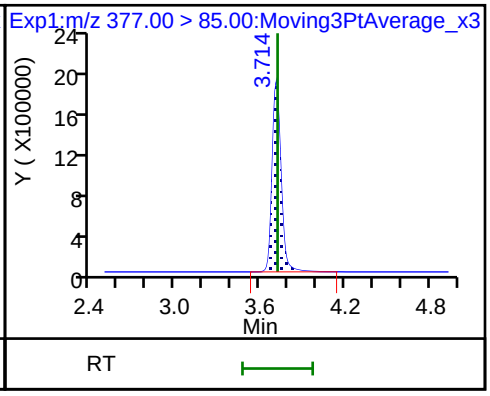
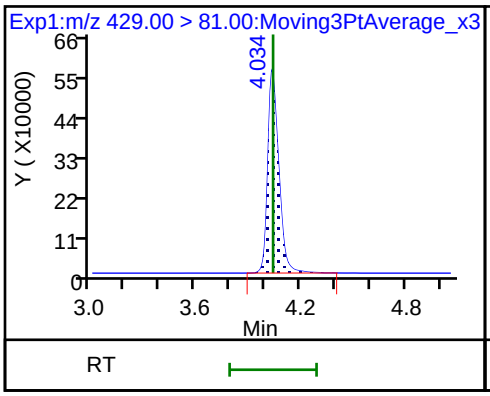


D 20 M2-6:2 FTS



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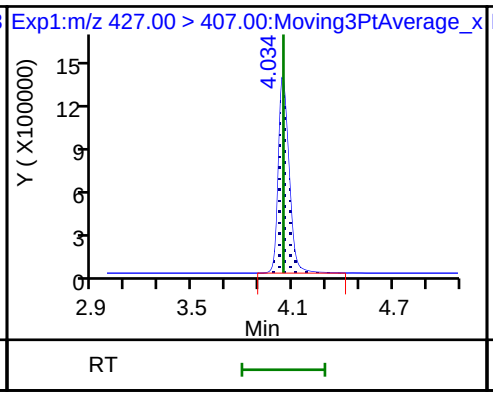
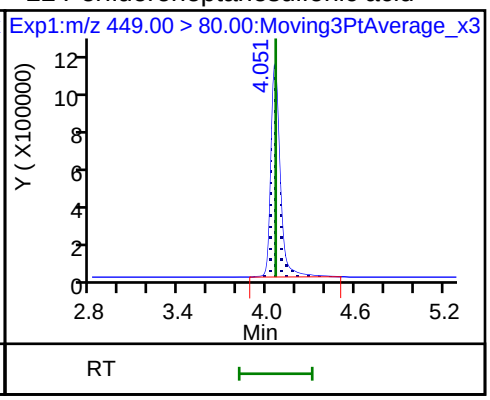


22 Perfluoroheptanesulfonic acid



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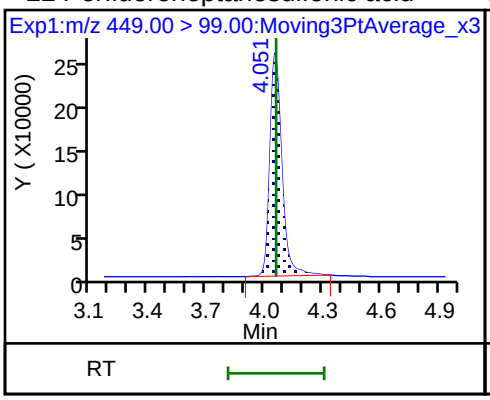
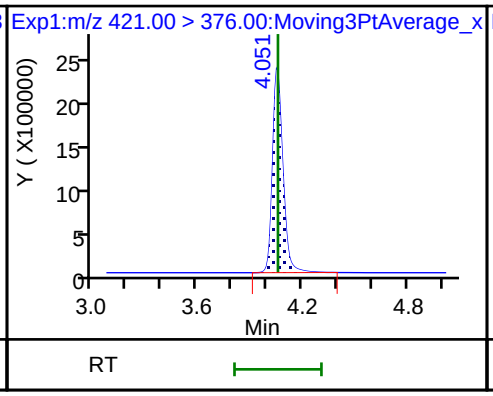


$ 23 13C8 PFOA



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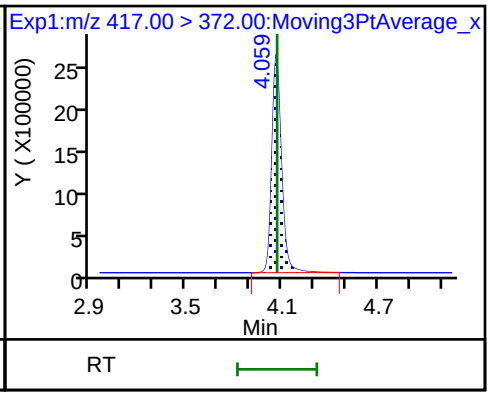
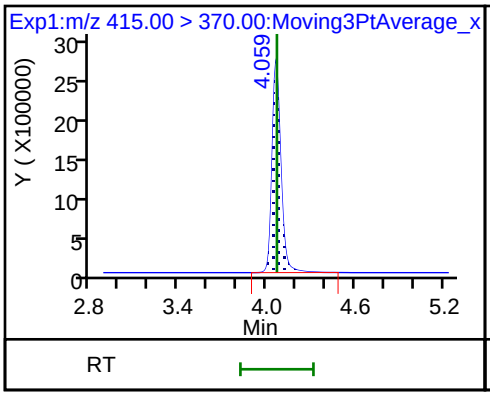
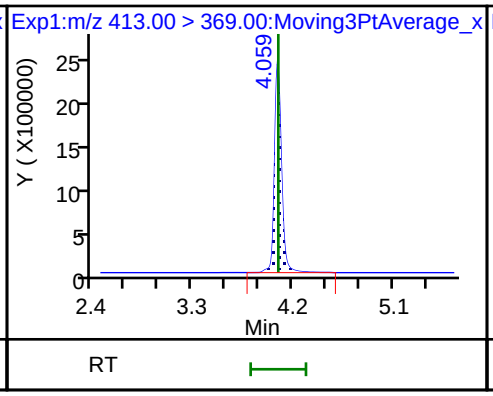


* 25 13C2 PFOA



26 Perfluorooctanoic acid



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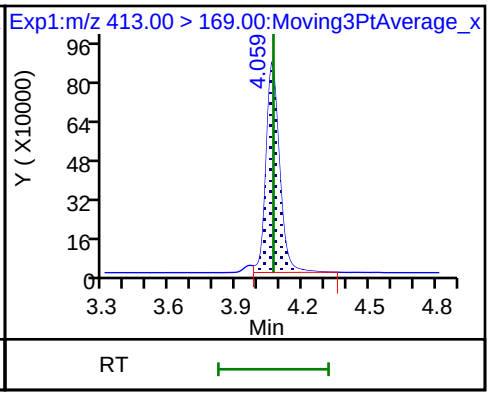

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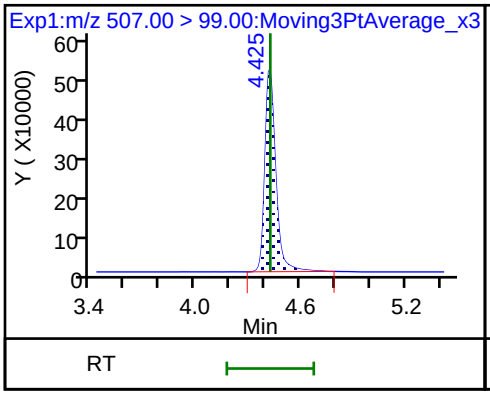

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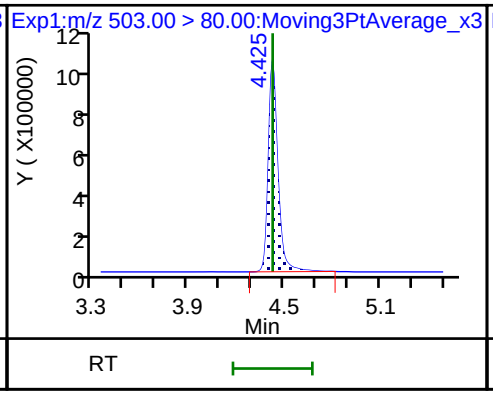
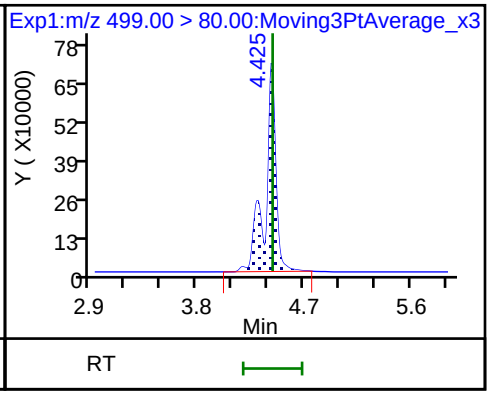
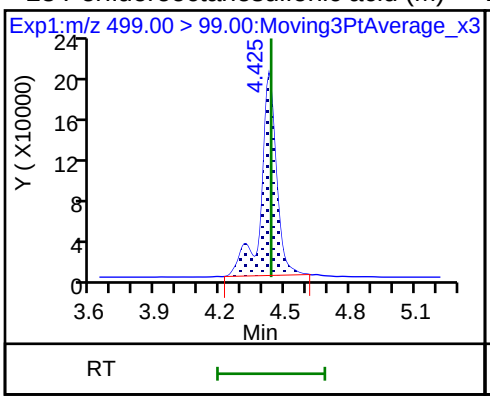


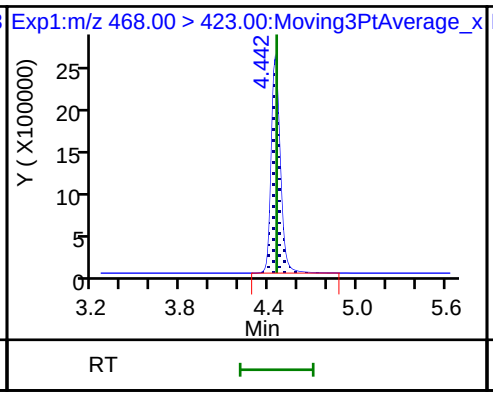
28 Perfluorooctanesulfonic acid



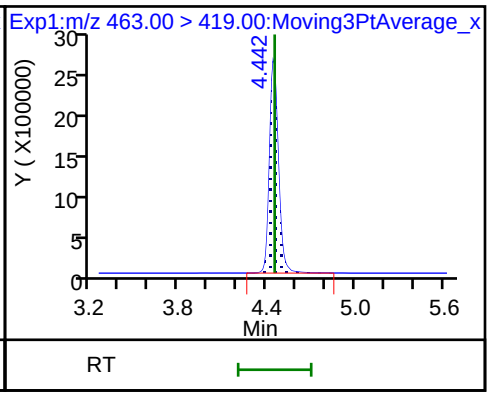
28 Perfluorooctanesulfonic acid (M)



D 31 13C5 PFNA



30 Perfluorononanoic acid



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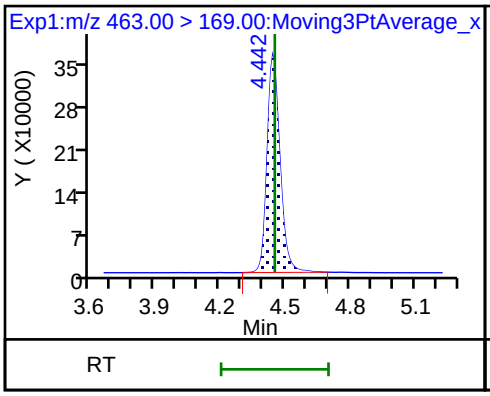
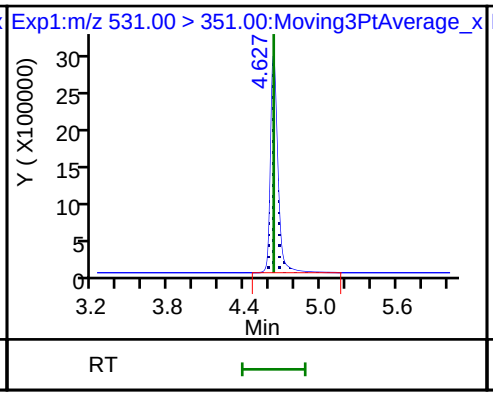
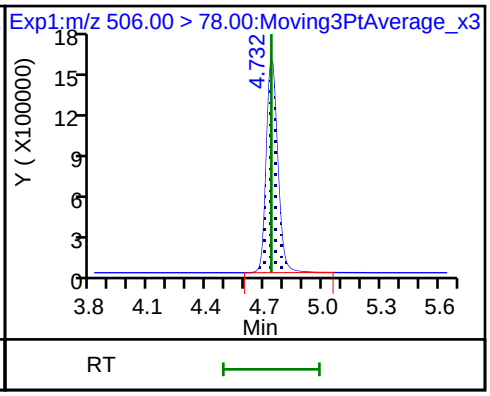


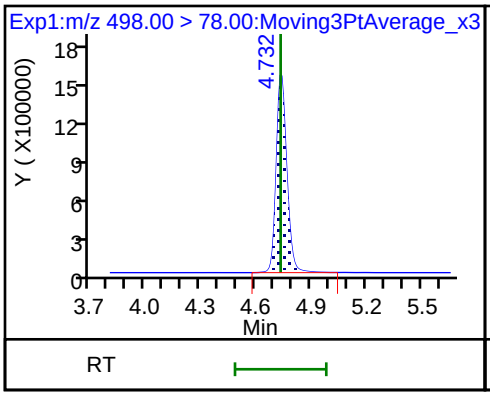
32 9ClFOS



D 34 13C8 FOSA



33 Perfluorooctanesulfonamide



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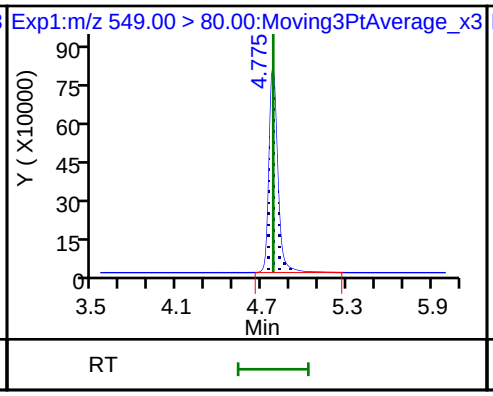

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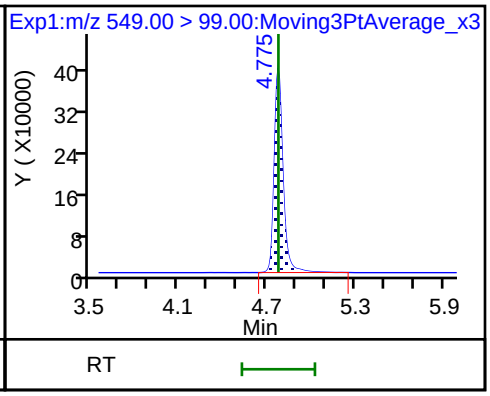
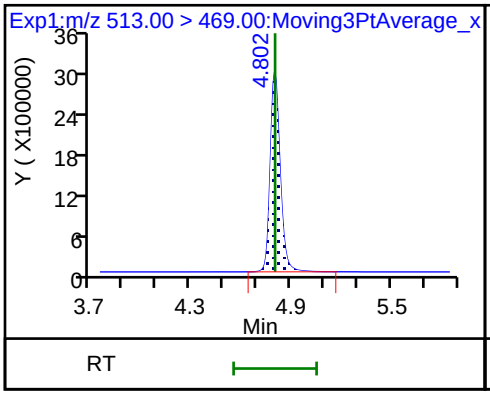
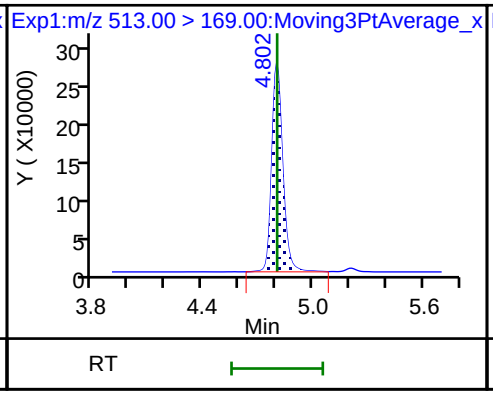


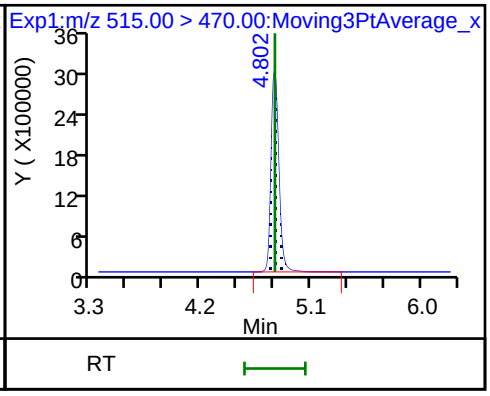
36 Perfluorodecanoic acid



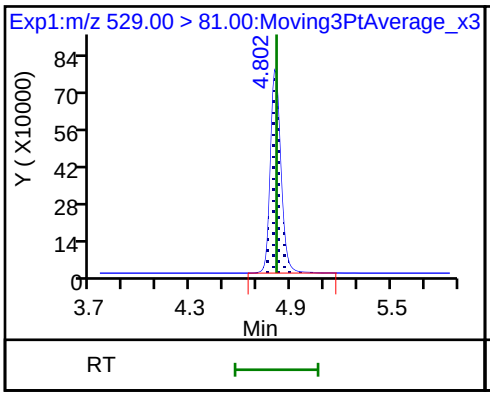
36 Perfluorodecanoic acid



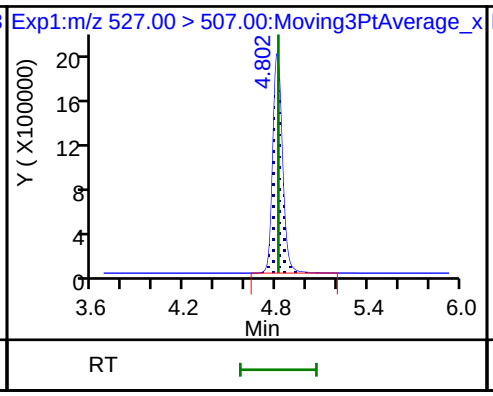
D 37 13C2 PFDA



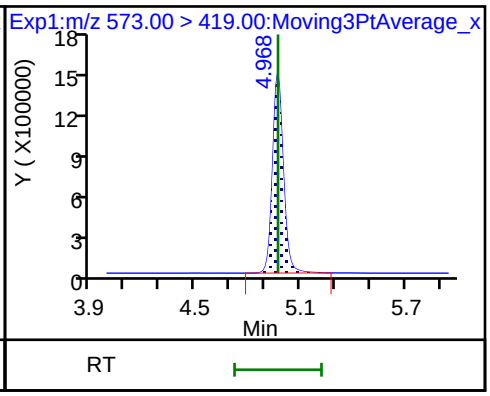
D 38 M2-8:2 FTS



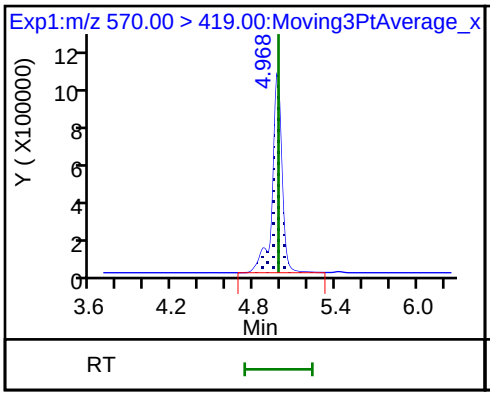
39 8:2 FTS



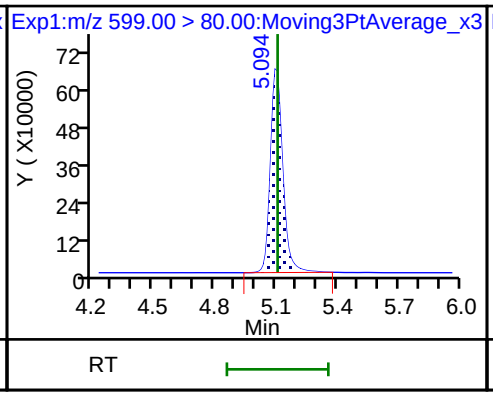
D 40 d3-NMeFOSAA



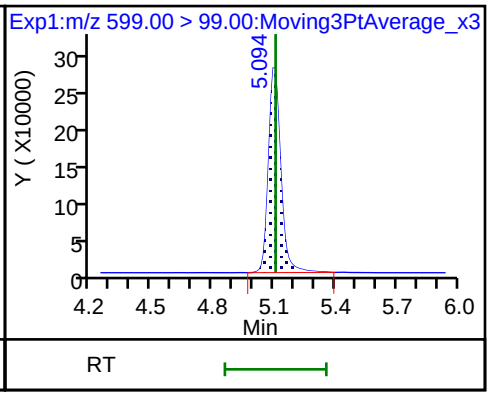
41 NMeFOSAA



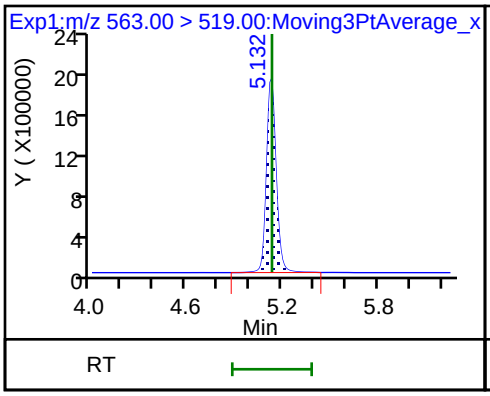
42 Perfluorodecanesulfonic acid



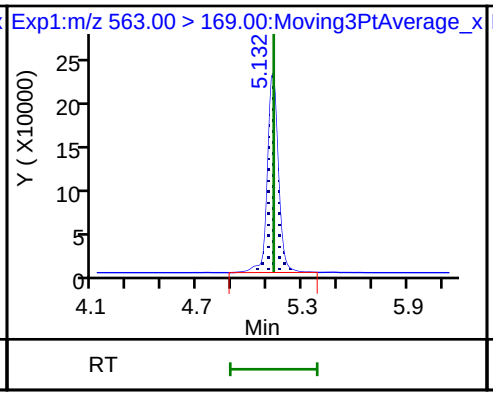
42 Perfluorodecanesulfonic acid



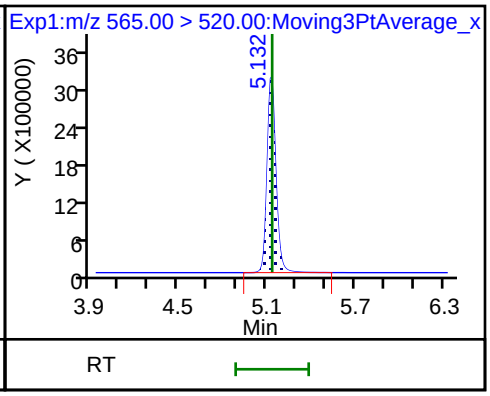
45 Perfluoroundecanoic acid



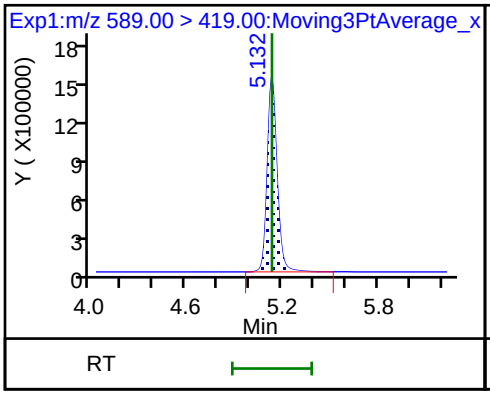
45 Perfluoroundecanoic acid



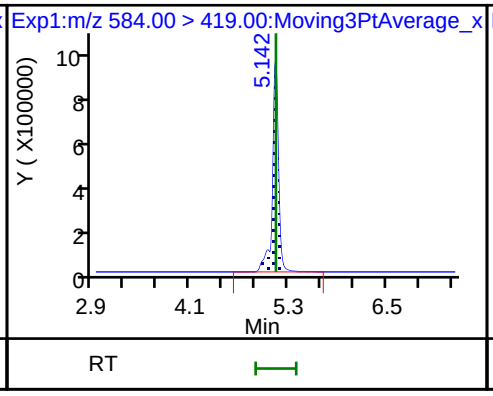
D 44 13C2 PFUnA



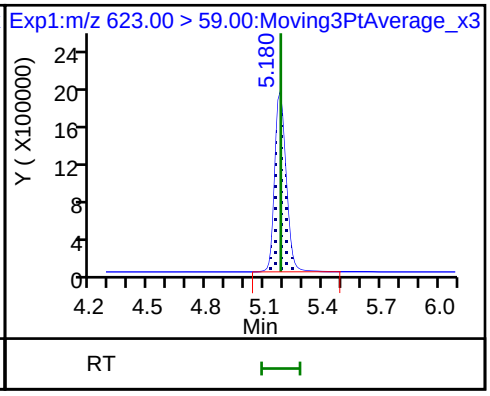
D 46 d5-NEtFOSAA



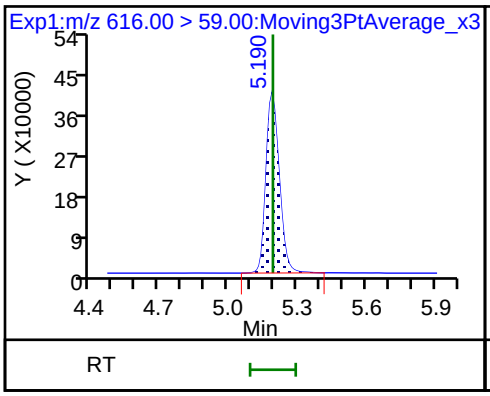
48 NEtFOSA



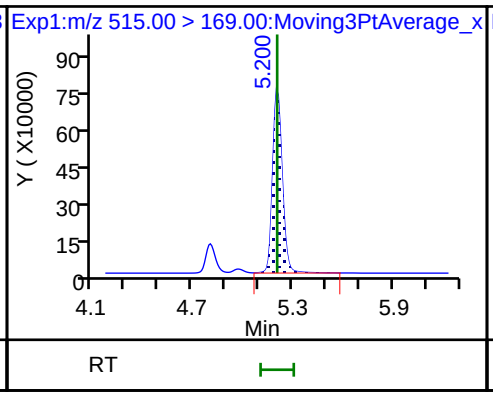
D 43 d7-N-MeFOSE-M



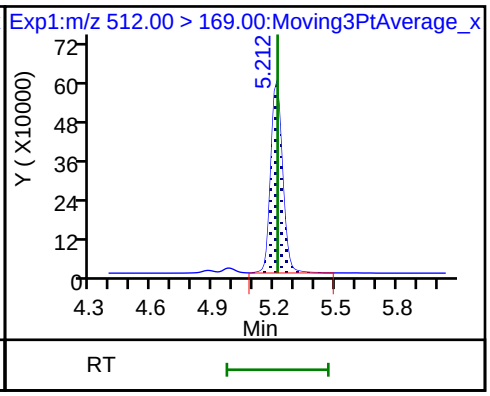
47 N-MeFOSE-M



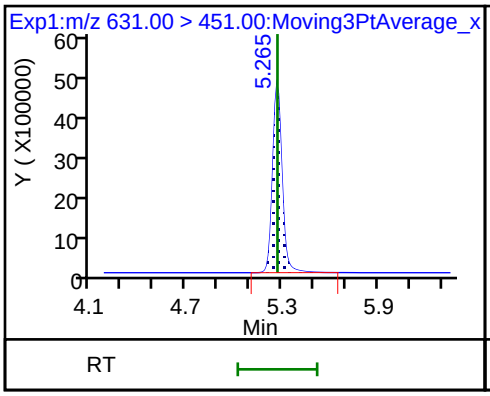
D 49 d-N-MeFOSA-M



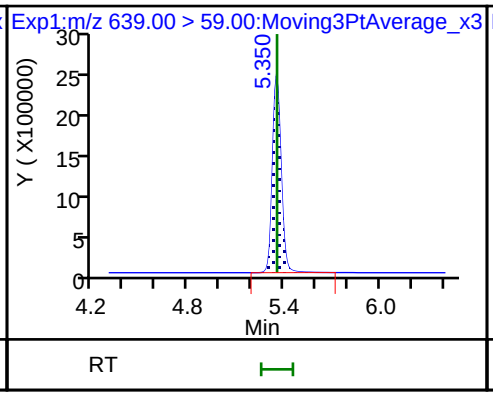
50 NMeFOSA



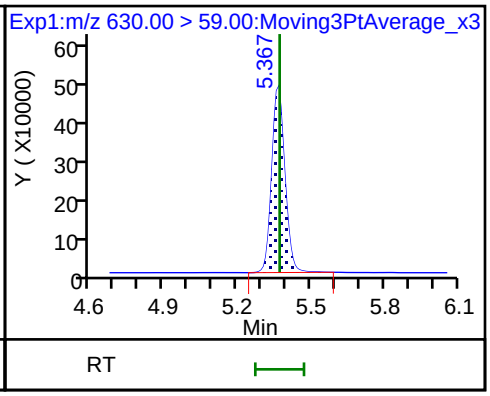
51 11ClFOS



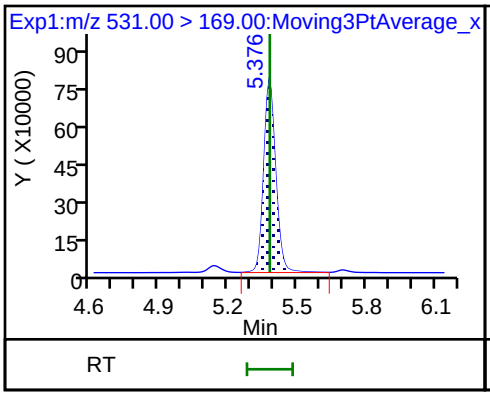
D 52 d9-N-EtFOSE-M



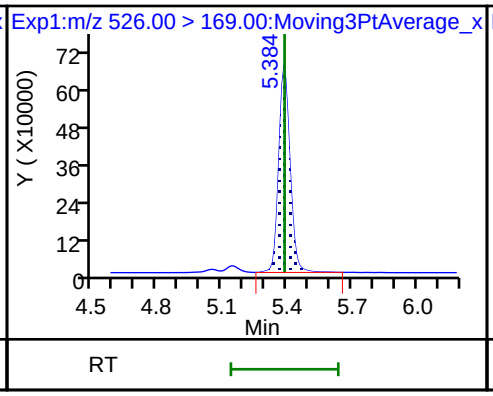
53 N-EtFOSE-M



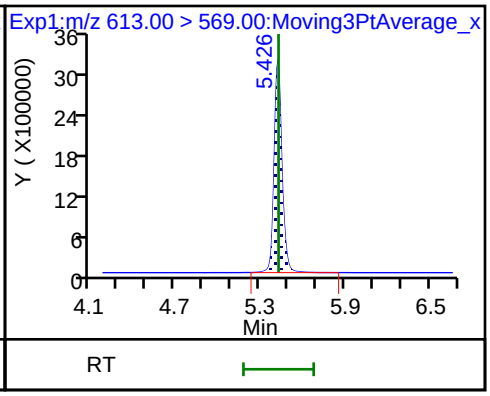
D 54 d-N-EtFOSA-M



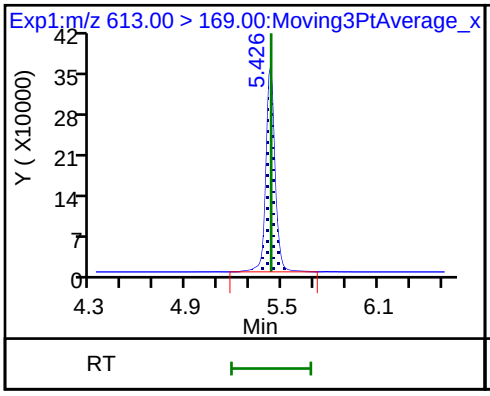
55 N-EtFOSA-M



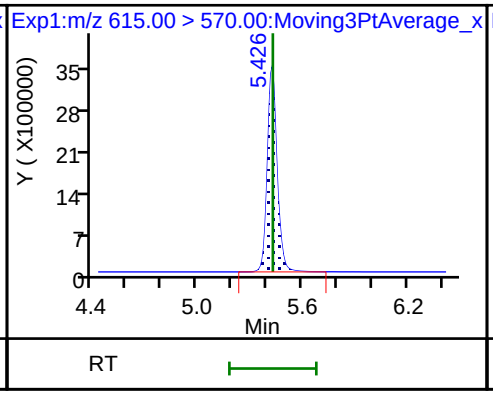
57 Perfluorododecanoic acid



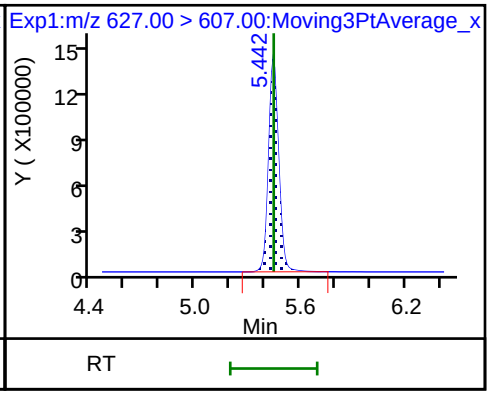
57 Perfluorododecanoic acid



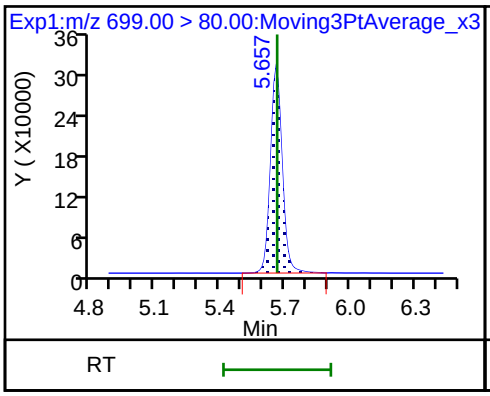
D 56 13C2 PFDoA



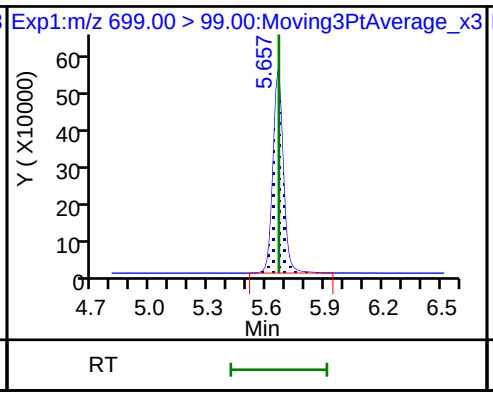
58 10:2 FTS



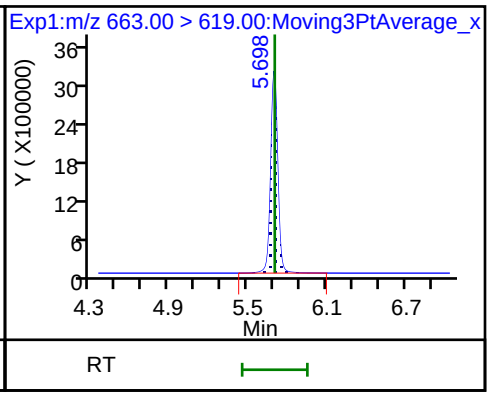
59 PFDoS



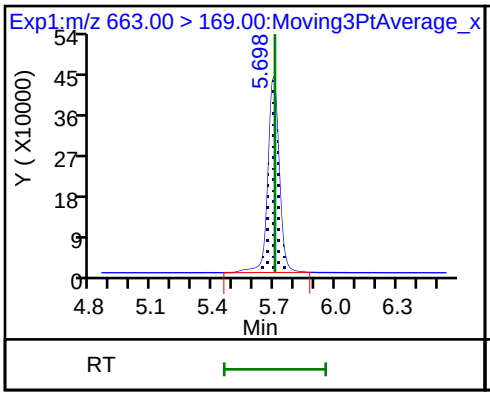
59 PFDoS



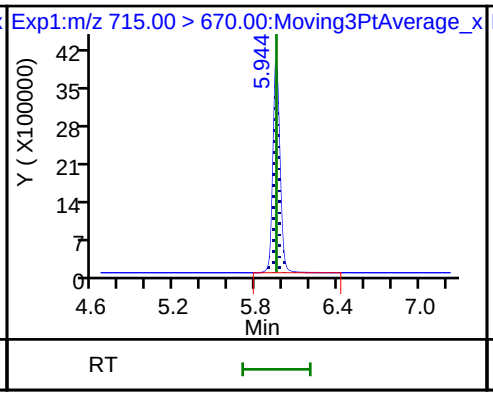
60 Perfluorotridecanoic acid



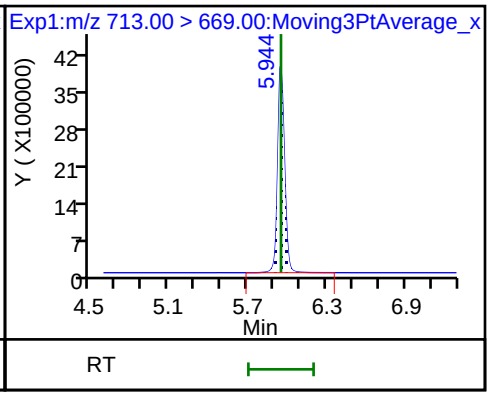
60 Perfluorotridecanoic acid



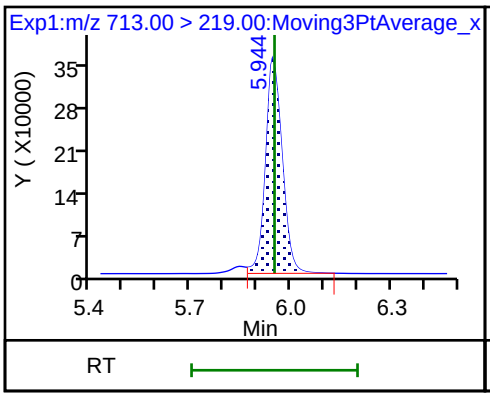
D 61 13C2 PFTeDA



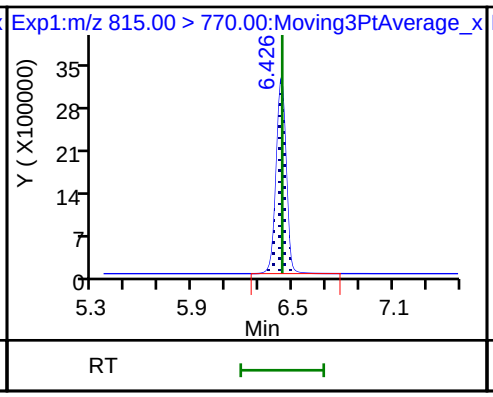
62 Perfluorotetradecanoic acid



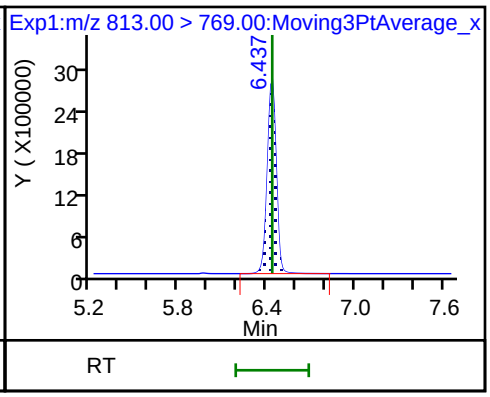
62 Perfluorotetradecanoic acid



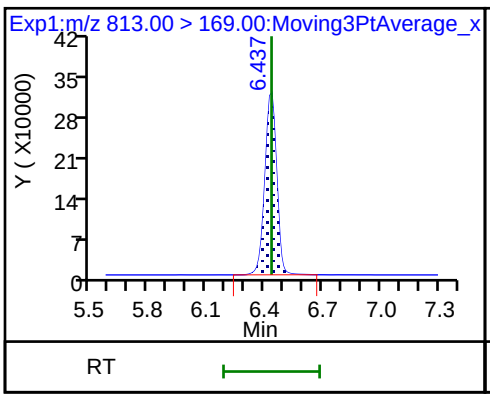
D 64 13C2 PFHxDA



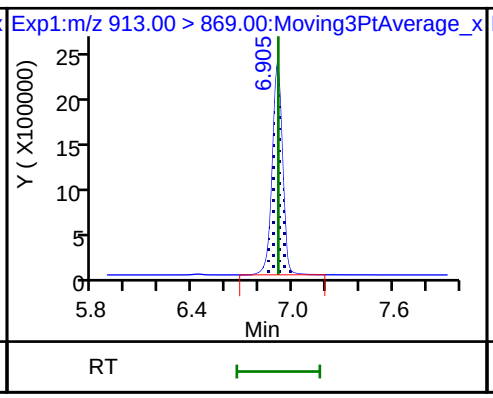
63 Perfluorohexadecanoic acid



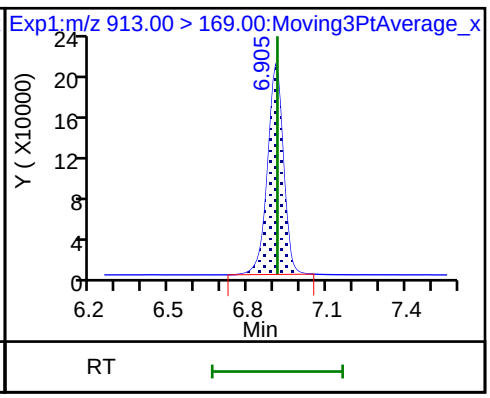
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

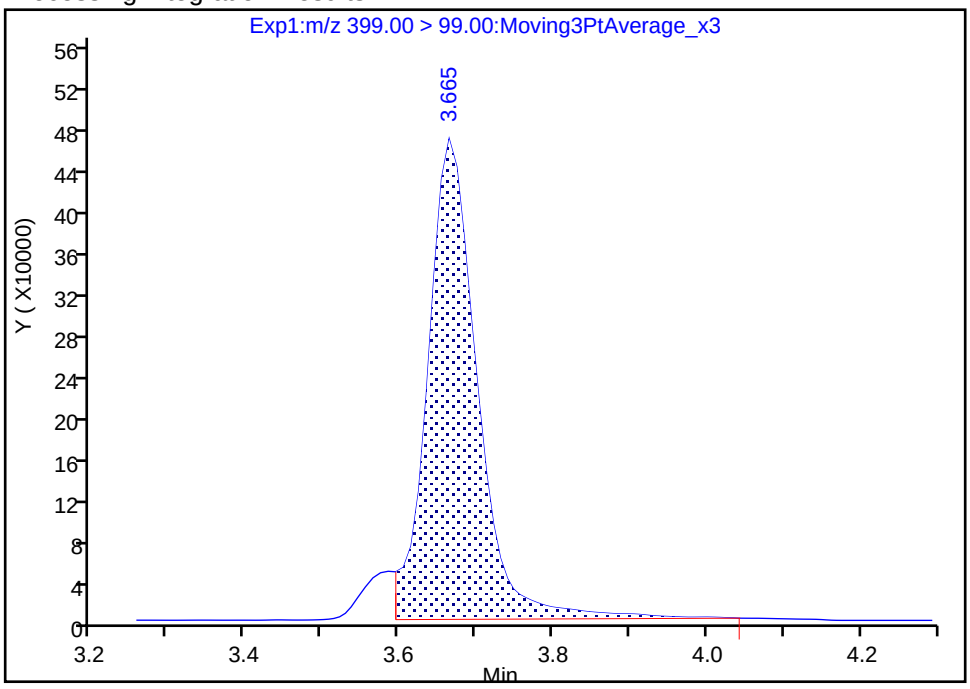
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_012.d
Injection Date: 08-Sep-2020 19:17:01 Instrument ID: A13
Lims ID: ICV
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

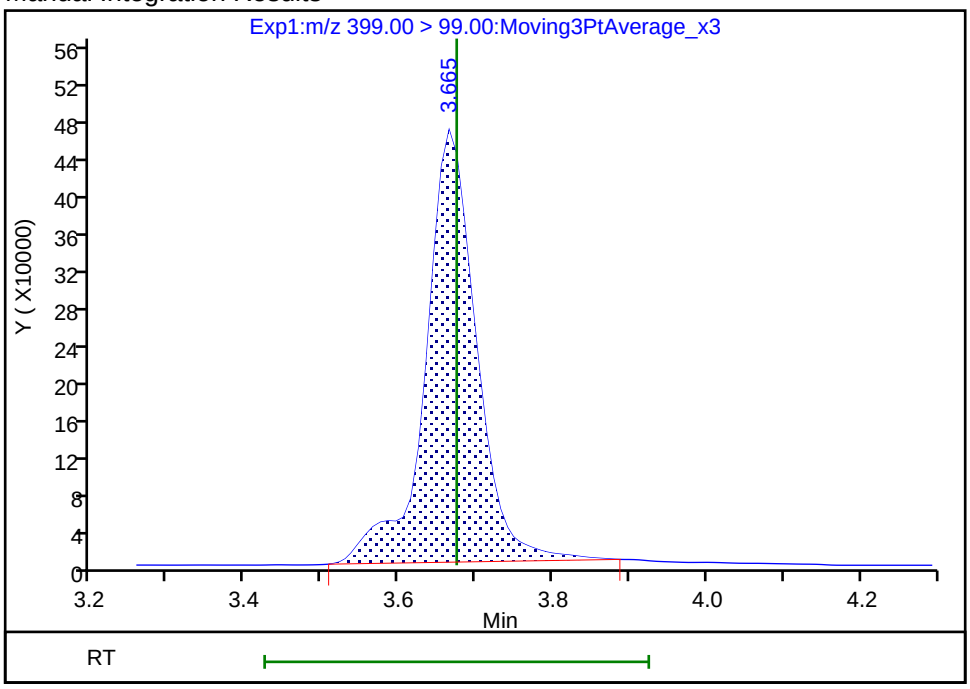
Processing Integration Results

RT: 3.66
Area: 2092557
Amount: 2.455247
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 2148966
Amount: 2.455247
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:42:56
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

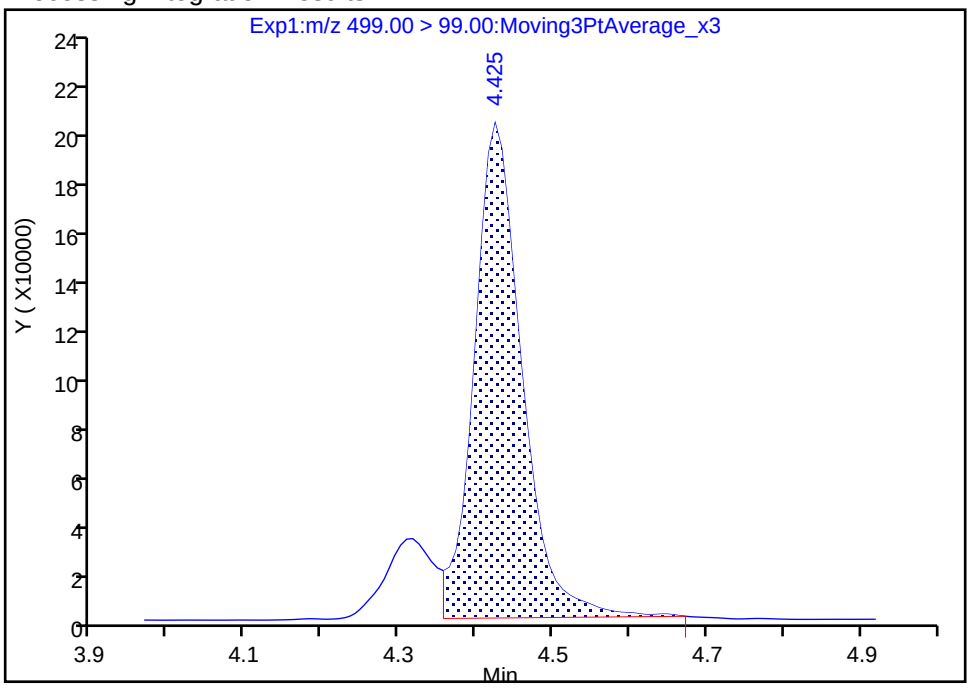
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_012.d
Injection Date: 08-Sep-2020 19:17:01 Instrument ID: A13
Lims ID: ICV
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

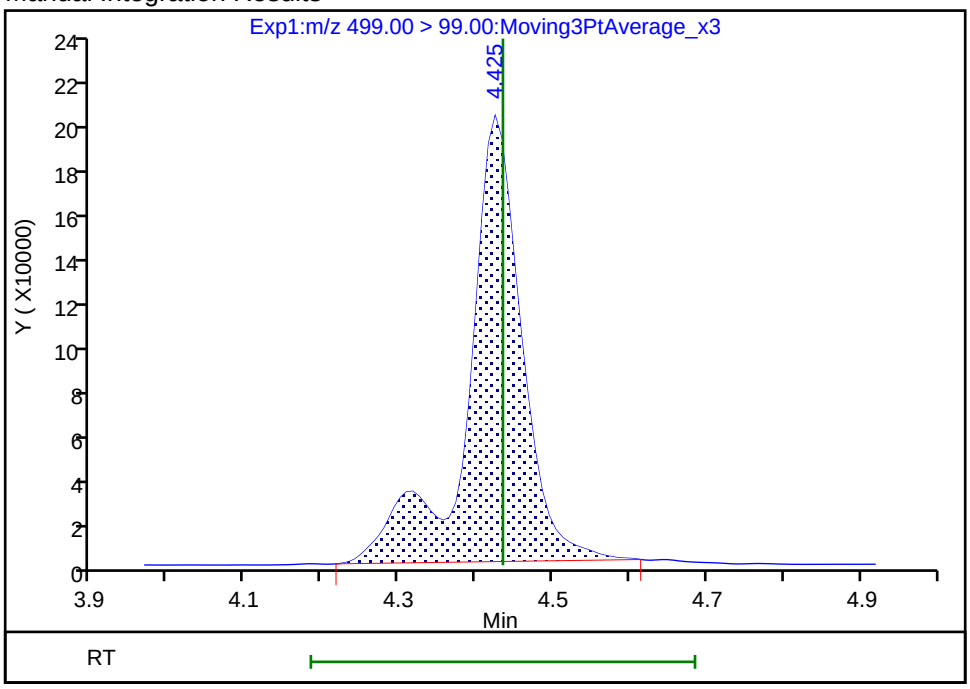
Processing Integration Results

RT: 4.42
Area: 867015
Amount: 2.380881
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 991238
Amount: 2.380881
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:44:37
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCVL 320-410989/2 Calibration Date: 09/10/2020 10:46

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.7433	0.6393		0.0430	0.0500	-14.0	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.028	0.9883		0.0481	0.0500	-3.8	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9776	0.8315		0.0376	0.0442	-14.9	50.0
4:2 FTS	AveID	3.243	2.986		0.430	0.467	-7.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9294	0.9140		0.0492	0.0500	-1.7	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7896	0.7367		0.0438	0.0469	-6.7	50.0
HFPO-DA (GenX)	AveID	0.2972	0.2266		0.0381	0.0500	-23.8	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	0.9192		0.0455	0.0500	-9.1	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.112	1.055		0.0432	0.0455	-5.1	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.136	5.048		0.0463	0.0471	-1.7	50.0
6:2 FTS	AveID	2.407	2.546		0.501	0.474	5.8	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.139	1.037		0.0434	0.0476	-8.9	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.023	1.031		0.0504	0.0500	0.8	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.038	1.080		0.0483	0.0464	4.0	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9494	0.8908		0.0469	0.0500	-6.2	50.0
F-53B Major	AveID	2.501	2.182		0.0407	0.0466	-12.8	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9383	0.8932		0.0476	0.0500	-4.8	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7747	0.7552		0.0468	0.0480	-2.5	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.8964	0.7834		0.0437	0.0500	-12.6	50.0
8:2 FTS	AveID	2.472	2.187		0.424	0.479	-11.5	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8055	0.6542		0.406	0.500	-18.8	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6588	0.5829		0.0426	0.0482	-11.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6615	0.5979		0.0452	0.0500	-9.6	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7741	0.7155		0.462	0.500	-7.6	50.0
NMeFOSE	AveID	1.065	0.9098		0.0427	0.0500	-14.5	50.0
NMeFOSA	AveID	0.9832	0.9793		0.750	0.0500	-0.4	50.0
F-53B Minor	AveID	4.317	3.797		0.0414	0.0471	-12.0	50.0
NEtFOSE	AveID	1.035	0.9119		0.0440	0.0500	-11.9	50.0
NEtFOSA	AveID	1.062	0.9727		1.00	0.0500	-8.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9122	0.8292		0.0454	0.0500	-9.1	50.0
10:2 FTS	AveID	1.632	1.628		0.0481	0.0482	-0.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2572	0.2437		0.0459	0.0484	-5.3	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCVL 320-410989/2 Calibration Date: 09/10/2020 10:46

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	0.8420		0.0449	0.0500	-10.2	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.9843	0.9339		0.0474	0.0500	-5.1	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.310		0.0442	0.0500	-11.6	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7306	0.6613		0.0453	0.0500	-9.5	50.0
13C4 PFBA	Ave	0.8499	0.9283		2.73	2.50	9.2	50.0
13C5 PFPeA	Ave	0.6625	0.7189		2.71	2.50	8.5	50.0
13C3 PFBS	Ave	0.8317	0.9737		2.72	2.33	17.1	50.0
M2-4:2 FTS	Ave	0.2037	0.2208		2.53	2.34	8.4	50.0
13C2 PFHxA	Ave	0.8183	0.8849		2.70	2.50	8.1	50.0
13C3 HFPO-DA	Ave	0.5866	0.6231		2.66	2.50	6.2	50.0
13C4 PFHpA	Ave	0.8058	0.8699		2.70	2.50	8.0	50.0
18O2 PFHxS	Ave	0.5449	0.6446		2.80	2.37	18.3	50.0
M2-6:2 FTS	Ave	0.2349	0.2526		2.55	2.38	7.5	50.0
13C4 PFOA	Ave	0.9849	1.044		2.65	2.50	6.0	50.0
13C4 PFOS	Ave	0.3888	0.4406		2.71	2.39	13.3	50.0
13C5 PFNA	Ave	0.9099	0.9625		2.64	2.50	5.8	50.0
13C8 FOSA	Ave	0.5585	0.6342		2.84	2.50	13.6	50.0
13C2 PFDA	Ave	1.102	1.184		2.69	2.50	7.4	50.0
M2-8:2 FTS	Ave	0.3107	0.3705		2.86	2.40	19.2	50.0
d3-NMeFOSAA	Ave	0.5682	0.5753		2.53	2.50	1.2	50.0
13C2 PFUnA	Ave	1.078	1.149		2.67	2.50	6.6	50.0
d5-NEtFOSAA	Ave	0.5501	0.6012		2.73	2.50	9.3	50.0
d7-N-MeFOSE-M	Ave	0.1398	0.1205		10.8	12.5	-13.8	50.0
d-N-MeFOSA-M	Ave	0.2628	0.2833		2.70	2.50	7.8	50.0
d9-N-EtFOSE-M	Ave	0.1640	0.1410		10.8	12.5	-14.0	50.0
d-N-EtFOSA-M	Ave	0.2510	0.2759		2.75	2.50	9.9	50.0
13C2 PFDoA	Ave	1.160	1.247		2.69	2.50	7.5	50.0
13C2 PFTeDA	Ave	1.146	1.147		2.50	2.50	0.0	50.0
13C2 PFHxDA	Ave	1.193	1.277		2.68	2.50	7.1	50.0
13C8 PFOA	Ave	0.8908	0.8537		2.35	2.45	-4.2	50.0
13C8 PFOS	Ave	0.2076	0.2148		2.47	2.39	3.5	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 10-Sep-2020 10:46:09 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL (26)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 11:17:23 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1047

First Level Reviewer: hsuw Date: 10-Sep-2020 11:17:23
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.483	2.482	0.001	0.609	9568379	2.73		109	12310	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.483	2.482	0.001	1.000	122348	0.0430		86.0	33.4	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.878	0.0	0.706	7409957	2.71		109	15364	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.878	0.0	1.000	146471	0.0481		96.2	16.1	
D 14 13C3 PFBS										
301.90 > 80.00	2.925	2.913	0.012	0.718	9333803	2.72		117	17282	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.925	2.913	0.012	1.000	147546	0.0376	Target=2.18	85.1	88.8	
298.90 > 99.00	2.925	2.913	0.012	1.000	66207		2.23(1.09-3.26)		29.1	M
7 4:2 FTS										
327.00 > 307.00	3.226	3.225	0.001	1.000	1269814	0.4300		92.1	2484	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.226	3.225	0.001	0.791	2125940	2.53		108	1332	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.269	3.268	0.001	1.000	166730	0.0492	Target=11.68	98.3	24.4	
313.00 > 119.00	3.269	3.268	0.001	1.000	12418		13.43(5.84-17.52)		7.7	
D 9 13C2 PFHxA										
315.00 > 270.00	3.269	3.268	0.001	0.802	9121339	2.70		108	8430	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.290	3.279	0.011	1.125	138702	0.0438	Target=2.56	93.3	103	
349.00 > 99.00	3.290	3.279	0.011	1.125	55321		2.51(1.28-3.84)		49.5	
12 HPFO-DA										
285.00 > 169.00	3.397	3.388	0.009	1.000	29103	0.0381		76.2	146	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.397	3.388	0.009	0.834	6422431	2.66		106	4045	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.675	3.675	0.0	1.000	164839	0.0455	Target=3.85	90.9	23.7	
363.00 > 169.00	3.685	3.675	0.010	1.003	46018		3.58(1.92-5.77)		29.0	
D 15 13C4 PFHpA										
367.00 > 322.00	3.675	3.675	0.0	0.902	8966692	2.70		108	29366	
D 17 18O2 PFHxS										
403.00 > 84.00	3.685	3.675	0.010	0.904	6285006	2.80		118	56202	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.685	3.675	0.010	1.000	127615	0.0432	Target=3.25	94.9	70.1	M
399.00 > 99.00	3.685	3.675	0.010	1.000	41043		3.11(1.62-4.87)		29.9	M
19 DONA										
377.00 > 251.00	3.732	3.722	0.010	0.840	431876	0.0463	Target=2.76	98.3	816	
377.00 > 85.00	3.723	3.722	0.001	0.838	132392		3.26(1.38-4.14)		200	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.051	4.050	0.001	0.994	2473214	2.55		108	2528	
21 6:2 FTS										
427.00 > 407.00	4.051	4.050	0.001	1.000	1256753	0.5014		106	1880	
22 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	4.067	4.059	0.008	0.916	89684	0.0434	Target=4.29	91.1	104	
449.00 > 99.00	4.067	4.059	0.008	0.916	20457		4.38(2.15-6.44)		34.5	M
$ 23 13C8 PFOA										
421.00 > 376.00	4.067	4.059	0.008	0.998	8614323	2.35		95.8	11475	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.076	4.067	0.009	1.000	222011	0.0504	Target=2.95	101	41.1	M
413.00 > 169.00	4.076	4.067	0.009	1.000	69302		3.20(1.47-4.42)		69.9	
* 25 13C2 PFOA										
415.00 > 370.00	4.076	4.067	0.009		10307380	2.50			6789	
D 24 13C4 PFOA										
417.00 > 372.00	4.076	4.067	0.009	1.000	10765093	2.65		106	8119	
$ 27 13C8 PFOS										
507.00 > 99.00	4.434	4.426	0.008	1.088	2116770	2.47		103	3046	
D 29 13C4 PFOS										
503.00 > 80.00	4.442	4.435	0.007	1.090	4341333	2.71		113	1625	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.442	4.435	0.007	1.000	91021	0.0483	Target=4.28	104	126	
499.00 > 99.00	4.434	4.435	-0.001	0.998	19655		4.63(2.14-6.41)		25.6	M
D 31 13C5 PFNA										
468.00 > 423.00	4.460	4.443	0.017	1.094	9920662	2.64		106	8523	
30 Perfluorononanoic acid										
463.00 > 419.00	4.451	4.452	-0.001	0.998	176739	0.0469	Target=8.00	93.8	42.1	
463.00 > 169.00	4.451	4.452	-0.001	0.998	23525		7.51(4.00-12.01)		37.5	
32 9ClFOS										M
531.00 > 351.00	4.636	4.629	0.007	1.044	184713	0.0407		87.2	207	M
D 34 13C8 FOSA										
506.00 > 78.00	4.743	4.743	0.0	1.164	6536461	2.84		114	12689	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.752	4.743	0.009	1.002	116772	0.0476		95.2	408	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.787	4.777	0.009	1.077	65844	0.0468	Target=2.15	97.5	195	
549.00 > 99.00	4.787	4.777	0.009	1.077	33731		1.95(1.08-3.23)		73.3	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.813	4.804	0.009	1.000	191196	0.0437	Target=10.44	87.4	89.1	
513.00 > 169.00	4.813	4.804	0.009	1.000	20304		9.42(5.22-15.65)		45.3	
D 37 13C2 PFDA										
515.00 > 470.00	4.813	4.804	0.009	1.181	12203246	2.69		107	30940	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.813	0.0	1.181	3658543	2.86		119	4461	
39 8:2 FTS										
527.00 > 507.00	4.822	4.813	0.009	1.002	1600334	0.4238		88.5	3210	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.981	4.971	0.010	1.222	5929422	2.53		101	3664	
41 NMeFOSAA										
570.00 > 419.00	4.981	4.971	0.010	1.000	775752	0.4061		81.2	195	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.107	5.106	0.001	1.150	51033	0.0426	Target=2.36	88.5	149	
599.00 > 99.00	5.107	5.106	0.001	1.150	23903		2.14(1.18-3.54)		88.4	
D 44 13C2 PFUnA										
565.00 > 520.00	5.135	5.135	0.0	1.260	11848193	2.67		107	5041	
45 Perfluoroundecanoic acid										M
563.00 > 519.00	5.135	5.135	0.0	1.000	141688	0.0452	Target=8.67	90.4	85.5	M
563.00 > 169.00	5.135	5.135	0.0	1.000	17730		7.99(4.34-13.01)		52.2	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.145	5.135	0.010	1.262	6197037	2.73		109	6943	
48 NEtFOSA										
584.00 > 419.00	5.145	5.144	0.001	1.000	886793	0.4621		92.4	166507	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.184	0.0	1.272	6212366	10.8		86.2	2911	
47 N-MeFOSE-M										
616.00 > 59.00	5.194	5.194	0.0	1.002	22609	0.0427		85.5	41.0	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.216	5.205	0.011	1.280	2920071	2.69		108	43.1	
50 NMeFOSA										
512.00 > 169.00	5.216	5.216	0.0	1.000	57195	0.0498		99.6	37.9	
51 11ClFOS										
631.00 > 451.00	5.280	5.270	0.010	1.189	324884	0.0414		88.0	1031	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.362	-0.009	1.313	7269202	10.7		86.0	2802	
53 N-EtFOSE-M										
630.00 > 59.00	5.370	5.371	-0.001	1.003	26514	0.0440		88.1	50.5	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.387	5.379	0.008	1.322	2843678	2.75		110	229	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.387	0.0	1.000	55323	0.0458		91.6	23.5	
D 56 13C2 PFDoA										
615.00 > 570.00	5.428	5.429	-0.001	1.332	12852946	2.69		107	8184	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.437	5.429	0.008	1.002	213147	0.0454	Target=9.05	90.9	113	
613.00 > 169.00	5.437	5.429	0.008	1.002	21838		9.76(4.52-13.57)		76.3	
58 10:2 FTS										
627.00 > 607.00	5.453	5.445	0.008	1.133	119887	0.0481		99.8	794	
59 PFDoS										
699.00 > 80.00	5.670	5.662	0.008	1.276	21426	0.0459	Target=0.57	94.7	188	
699.00 > 99.00	5.670	5.662	0.008	1.276	37013		0.58(0.29-0.86)		135	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.702	5.702	0.0	1.050	216448	0.0449	Target=7.06	89.8	235	
663.00 > 169.00	5.709	5.702	0.007	1.052	28852		7.50(3.53-10.59)		134	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.957	5.950	0.007	1.000	220762	0.0474	Target=11.23	94.9	159	
713.00 > 219.00	5.957	5.950	0.007	1.000	18935		11.66(5.62-16.85)		167	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.957	5.950	0.007	1.462	11819706	2.50		100	16559	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.434	6.435	-0.001	1.579	13162466	2.68		107	8511	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.434	6.435	-0.001	1.000	344886	0.0442	Target=9.45	88.4	102	
813.00 > 169.00	6.434	6.435	-0.001	1.000	38611		8.93(4.72-14.17)		231	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.911	6.902	0.009	1.074	174082	0.0453	Target=11.13	90.5	120	
913.00 > 169.00	6.911	6.902	0.009	1.074	15694		11.09(5.56-16.69)		125	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LLCCVL_00026 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 11:17:25 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d

Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13

Lims ID: CCVL

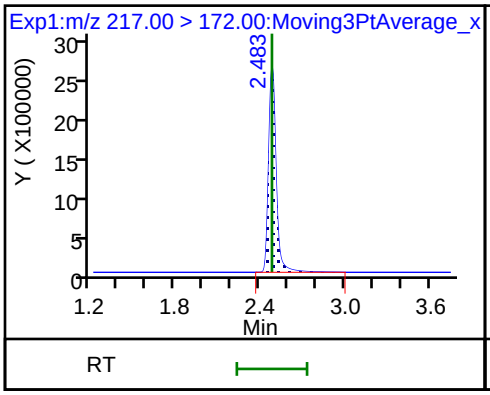
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2

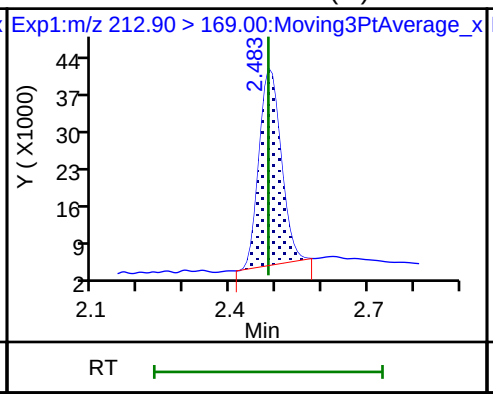
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

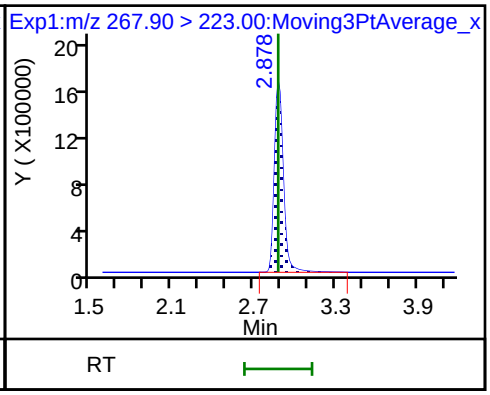
D 1 13C4 PFBA



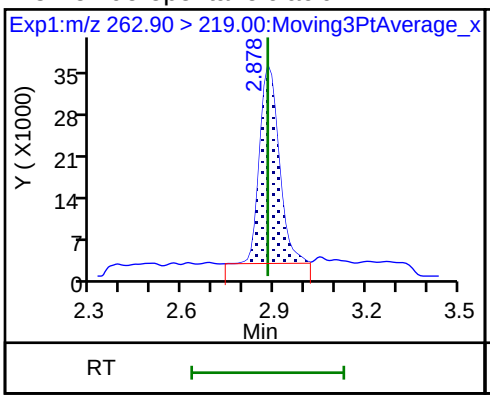
2 Perfluorobutanoic acid (M)



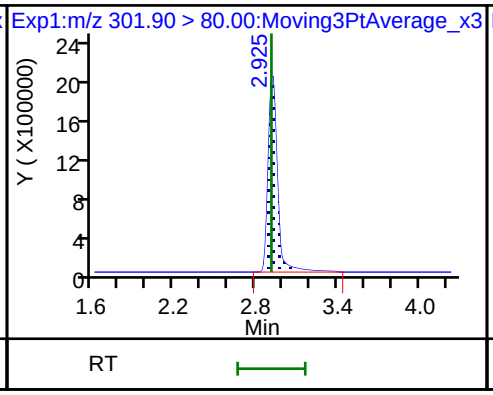
D 4 13C5 PFPeA



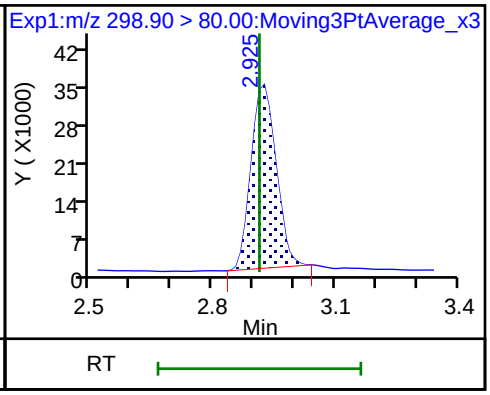
5 Perfluoropentanoic acid



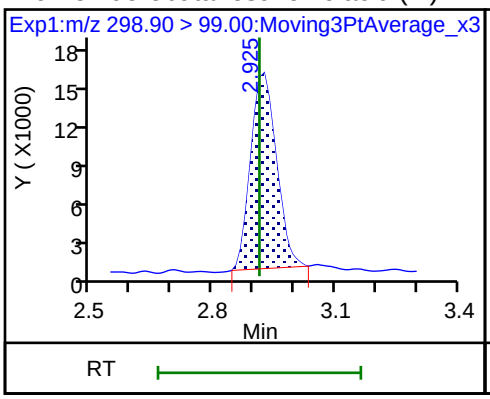
D 14 13C3 PFBS



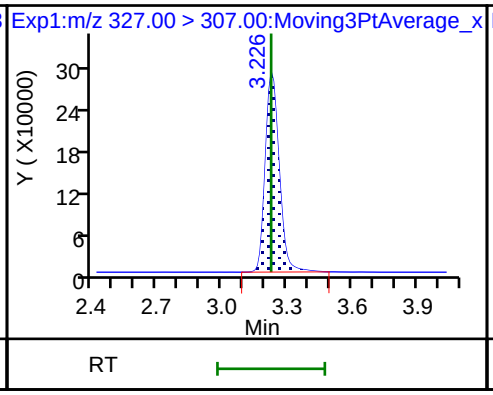
6 Perfluorobutanesulfonic acid



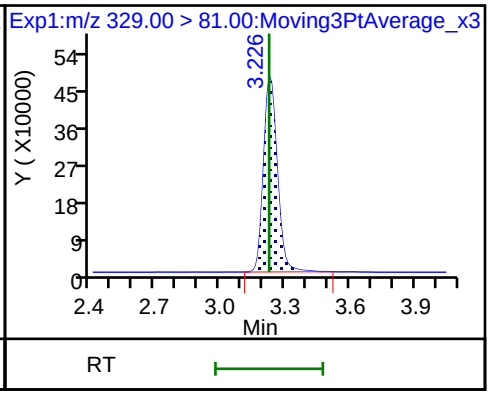
6 Perfluorobutanesulfonic acid (M)



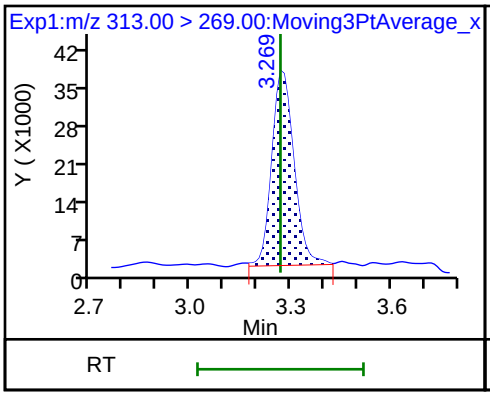
7 4:2 FTS



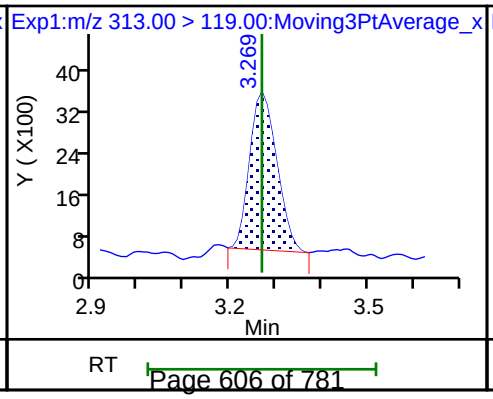
D 8 M2-4:2 FTS



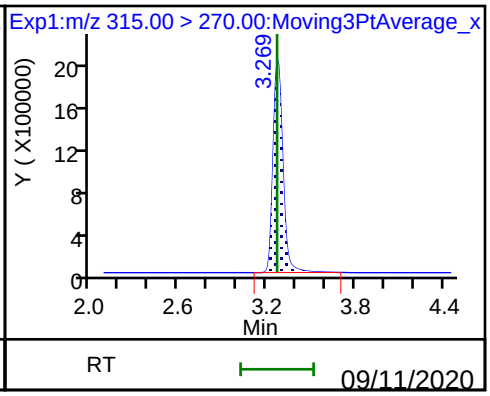
10 Perfluorohexanoic acid



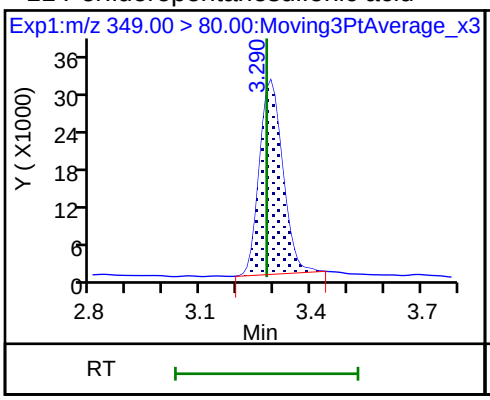
10 Perfluorohexanoic acid



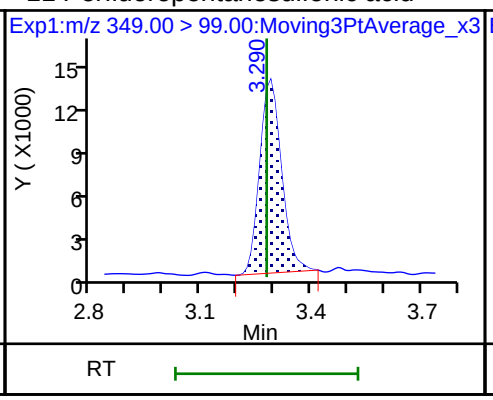
D 9 13C2 PFHxA



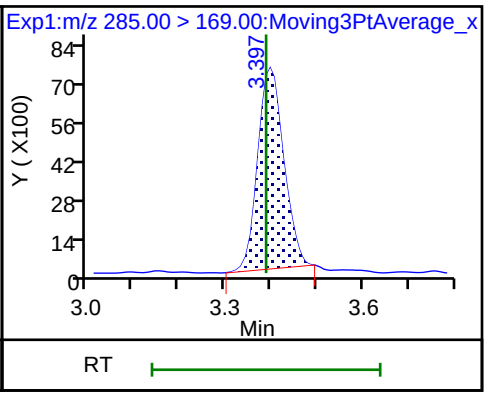
11 Perfluoropentanesulfonic acid



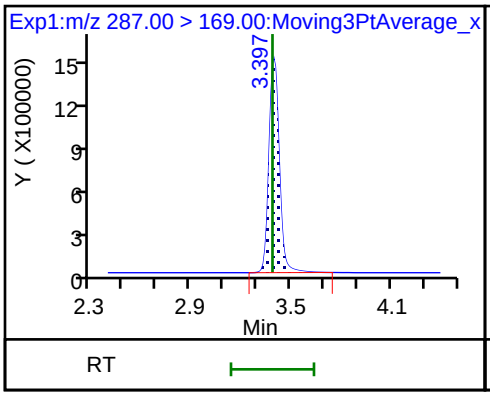
11 Perfluoropentanesulfonic acid



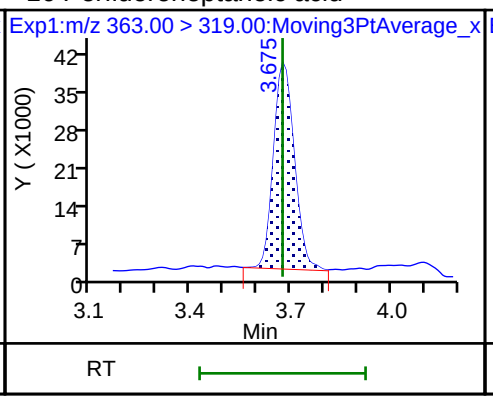
12 HPFO-DA



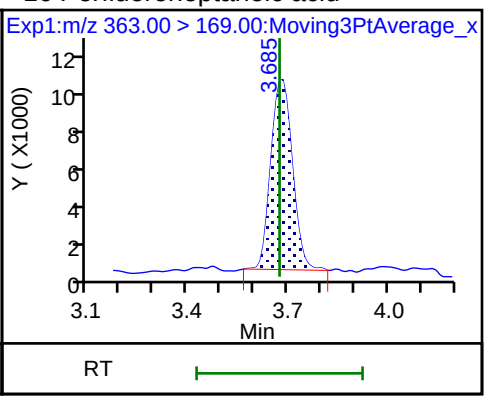
D 13 13C3 HFPO-DA



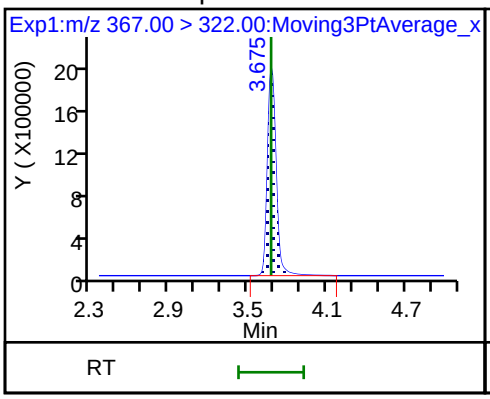
16 Perfluoroheptanoic acid



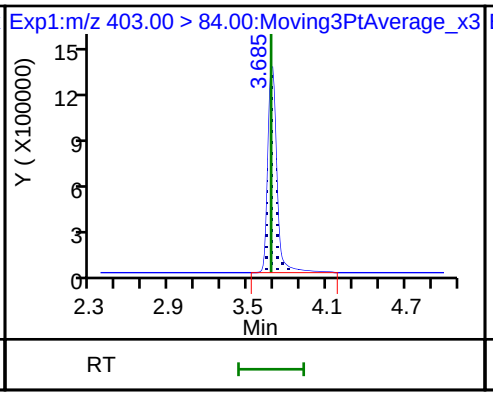
16 Perfluoroheptanoic acid



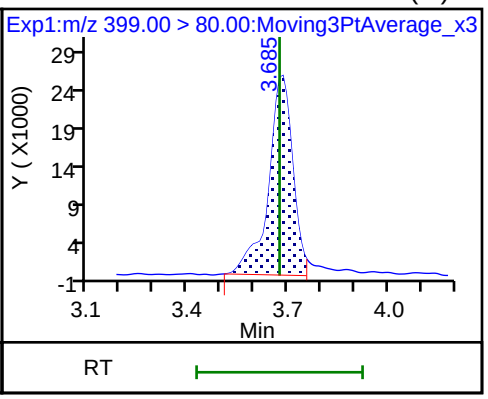
D 15 13C4 PFHpA



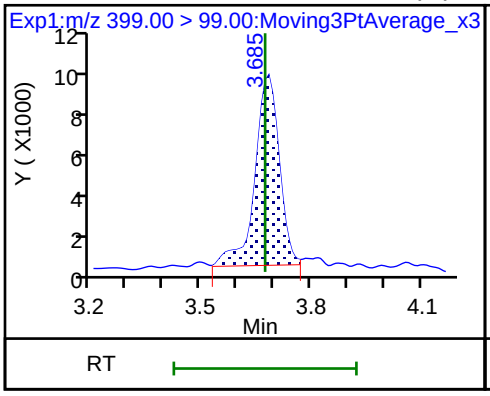
D 17 18O2 PFHxS



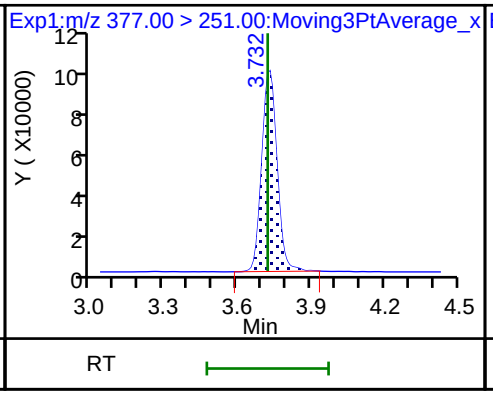
18 Perfluorohexanesulfonic acid (M)



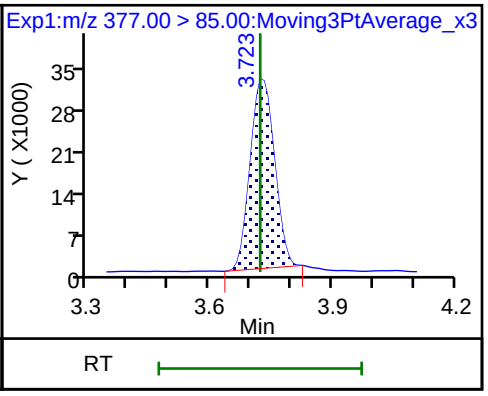
18 Perfluorohexanesulfonic acid (M)



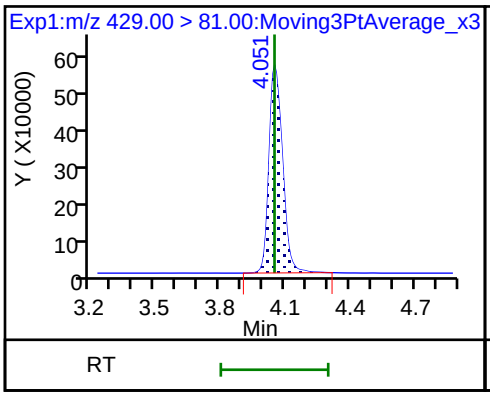
19 DONA



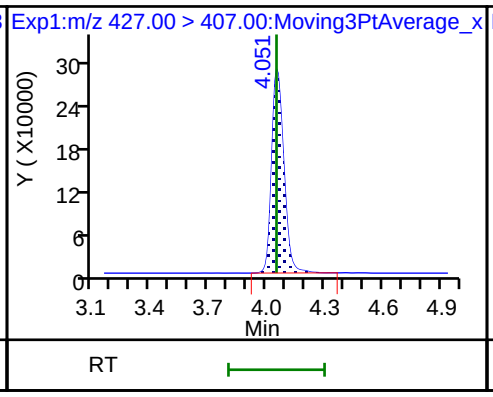
19 DONA



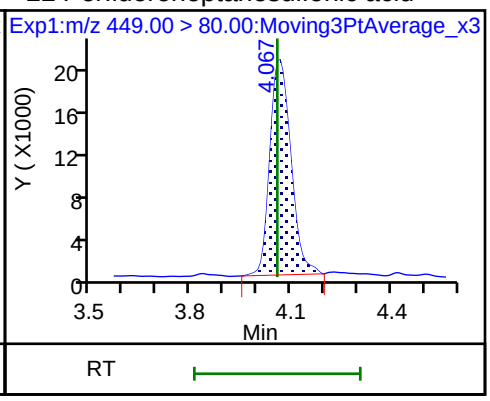
D 20 M2-6:2 FTS



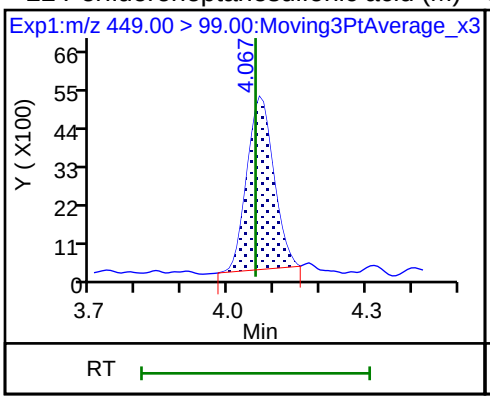
21 6:2 FTS



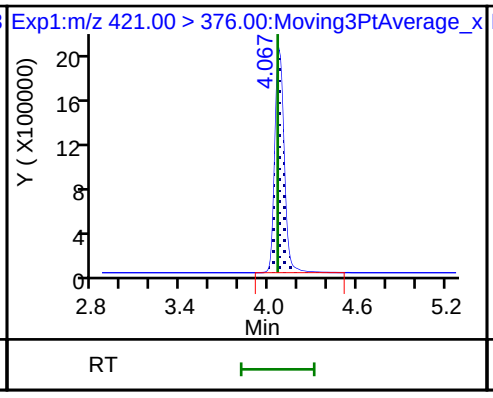
22 Perfluoroheptanesulfonic acid



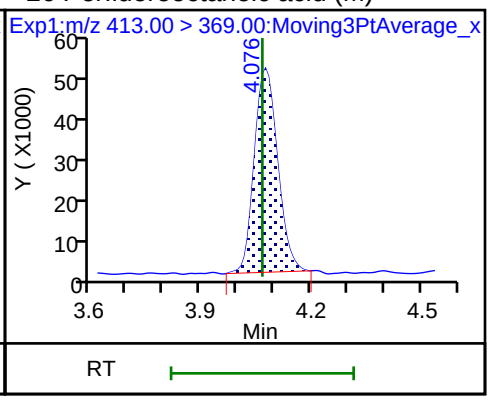
22 Perfluoroheptanesulfonic acid (M)



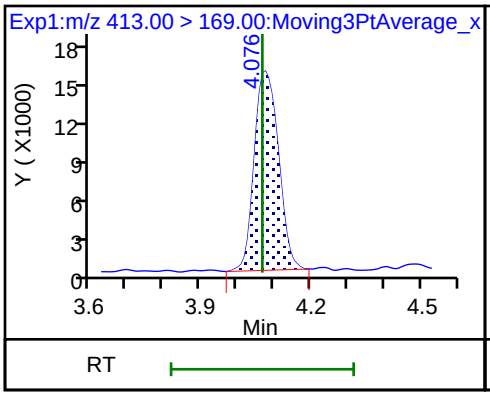
$ 23 13C8 PFOA



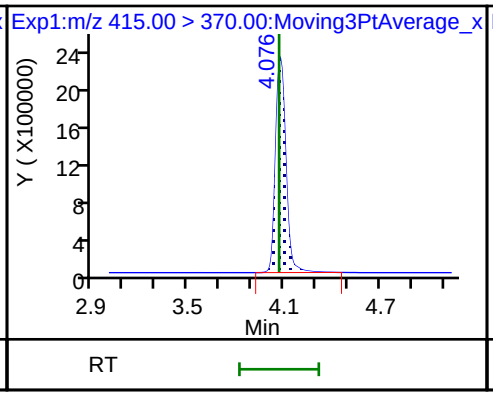
26 Perfluorooctanoic acid (M)



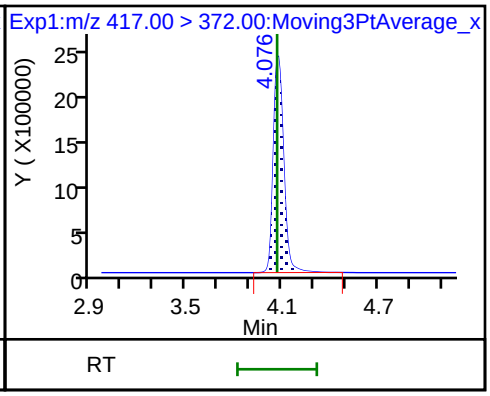
26 Perfluorooctanoic acid



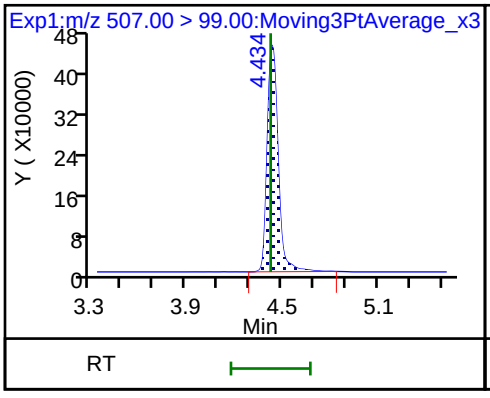
* 25 13C2 PFOA



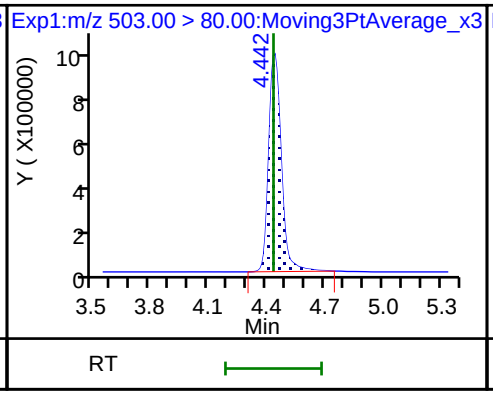
D 24 13C4 PFOA



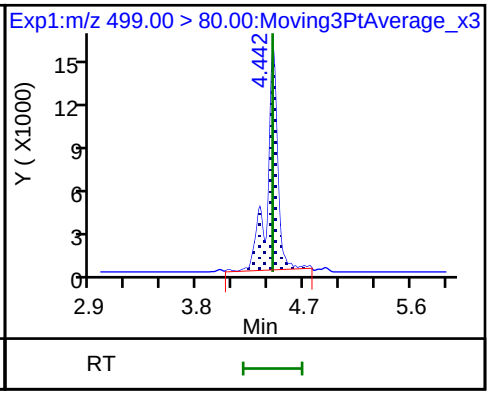
$ 27 13C8 PFOS



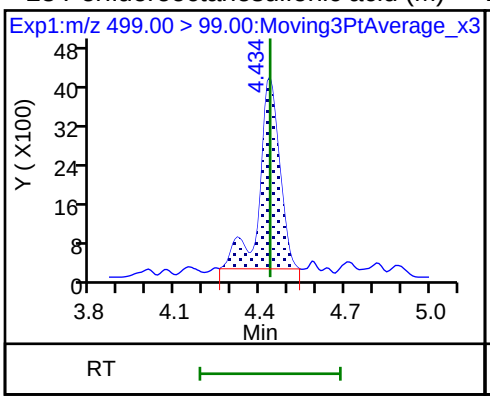
D 29 13C4 PFOS



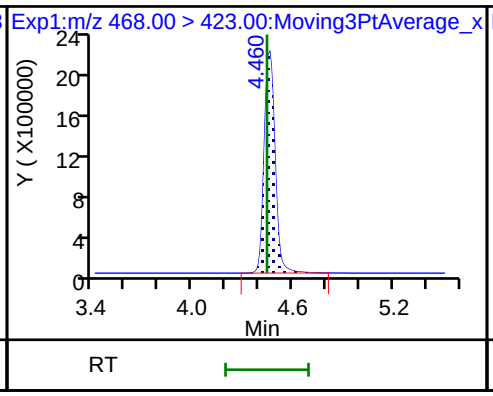
28 Perfluorooctanesulfonic acid



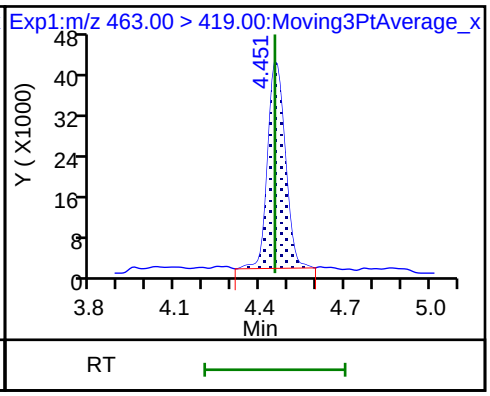
28 Perfluorooctanesulfonic acid (M)



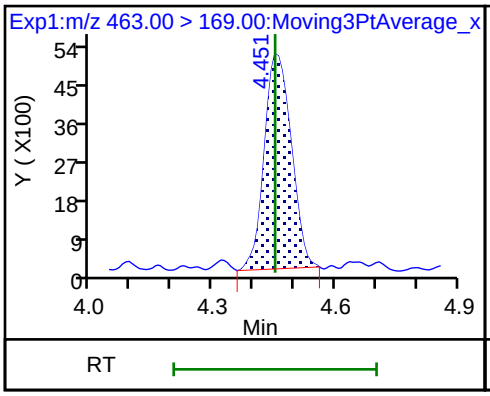
D 31 13C5 PFNA



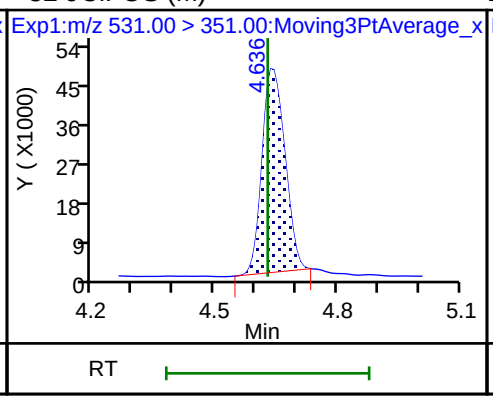
30 Perfluorononanoic acid



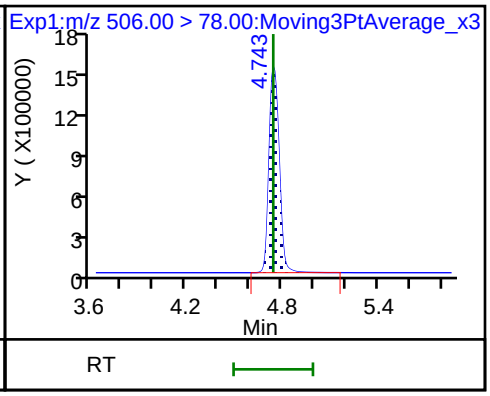
30 Perfluorononanoic acid



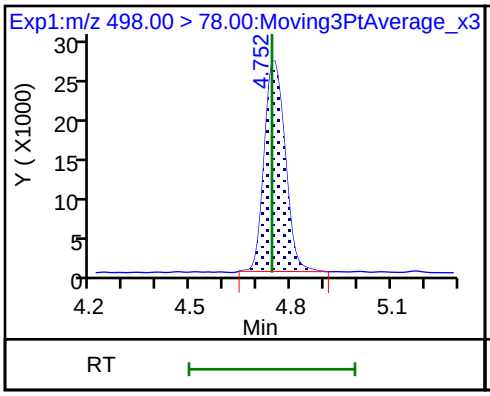
32 9ClFOS (M)



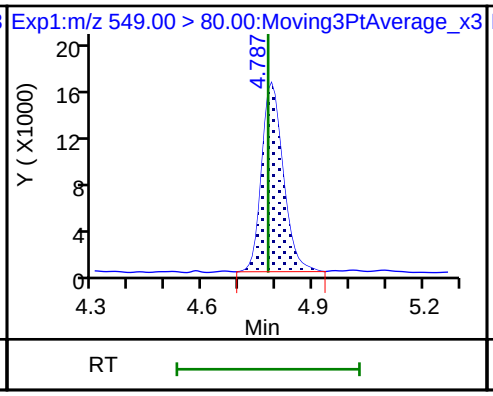
D 34 13C8 FOSA



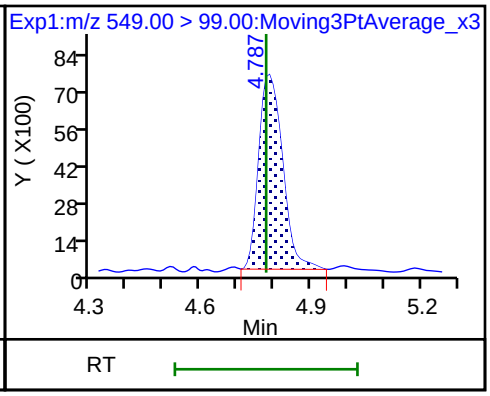
33 Perfluorooctanesulfonamide



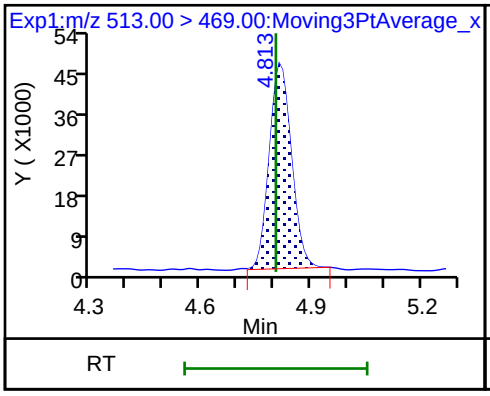
35 Perfluorononanesulfonic acid



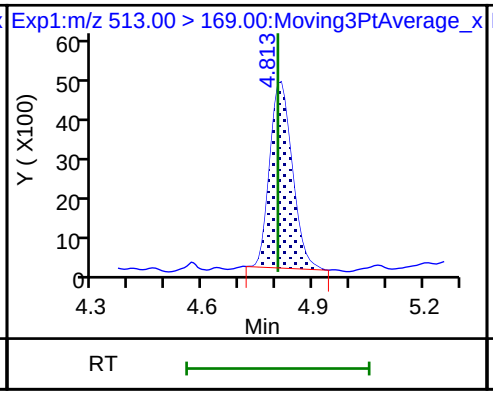
35 Perfluorononanesulfonic acid



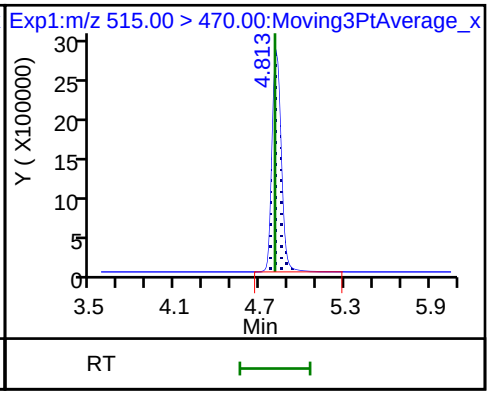
36 Perfluorodecanoic acid



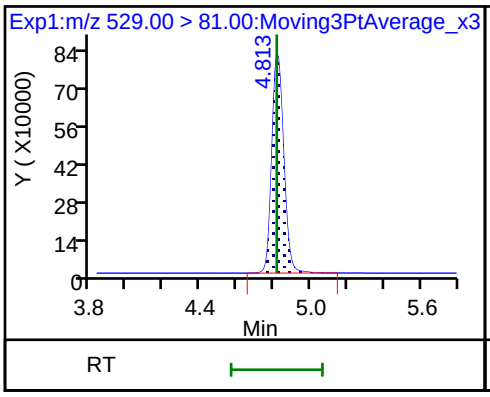
36 Perfluorodecanoic acid



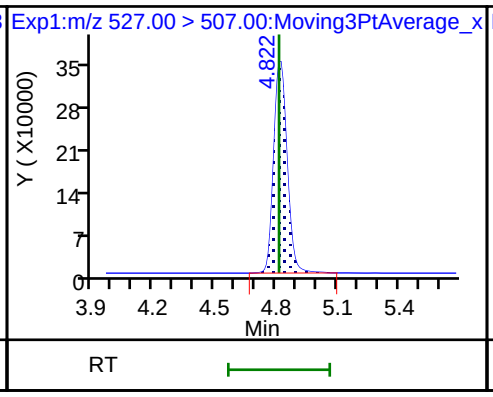
D 37 13C2 PFDA



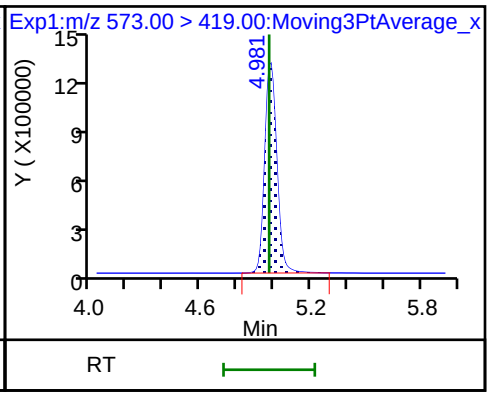
D 38 M2-8:2 FTS



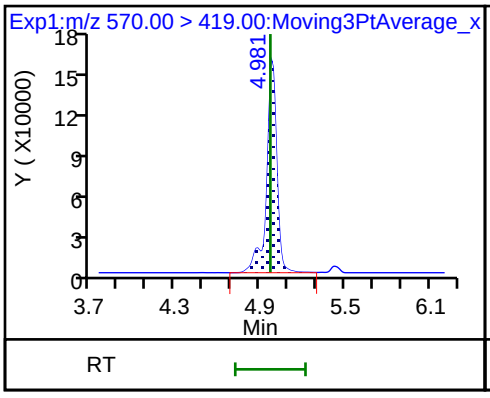
39 8:2 FTS



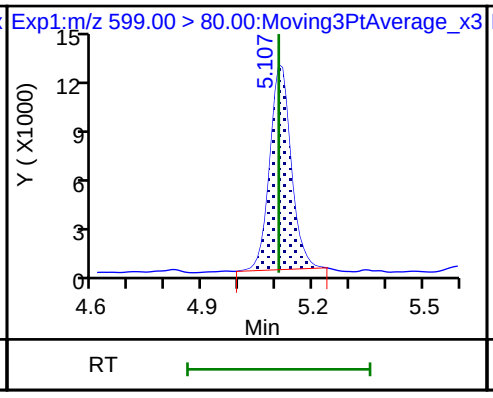
D 40 d3-NMeFOSAA



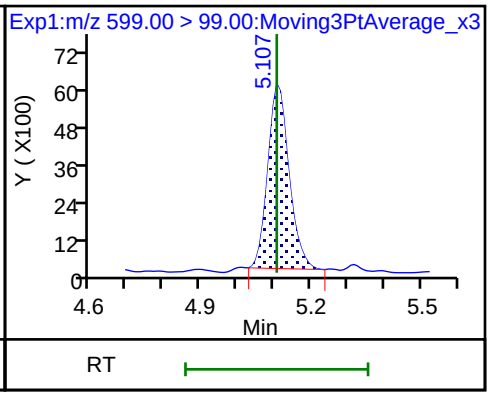
41 NMeFOSAA



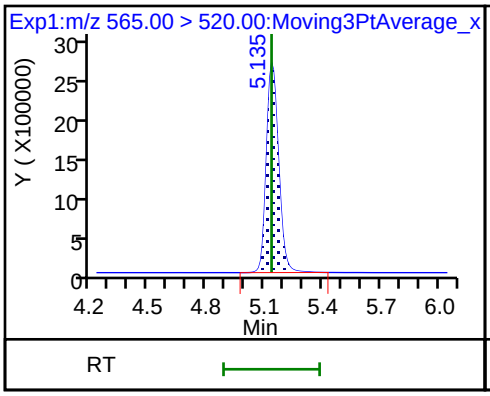
42 Perfluorodecanesulfonic acid



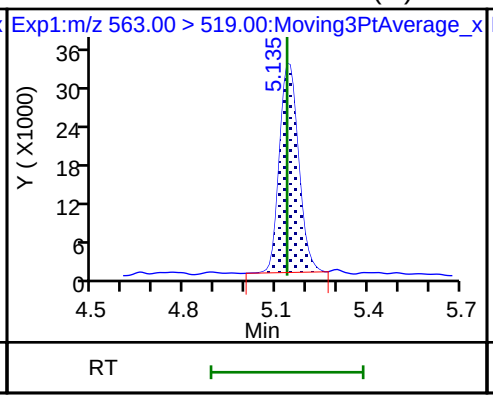
42 Perfluorodecanesulfonic acid



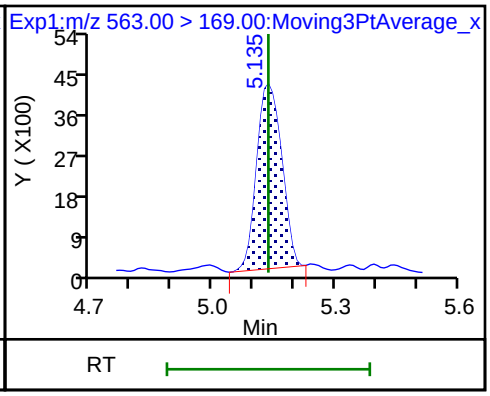
D 44 13C2 PFUnA



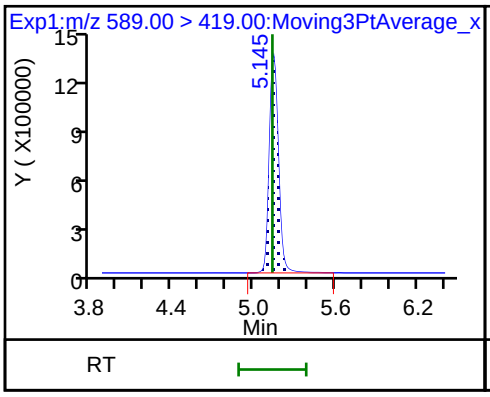
45 Perfluoroundecanoic acid (M)



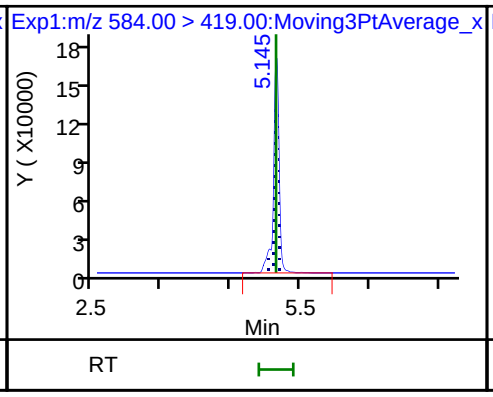
45 Perfluoroundecanoic acid



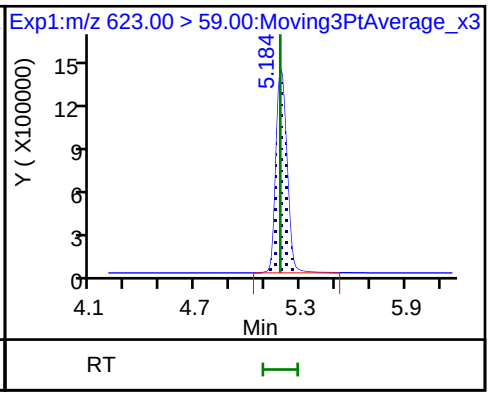
D 46 d5-NEtFOSAA



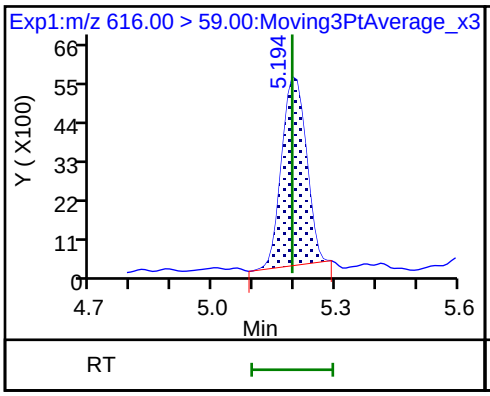
48 NEtFOSA



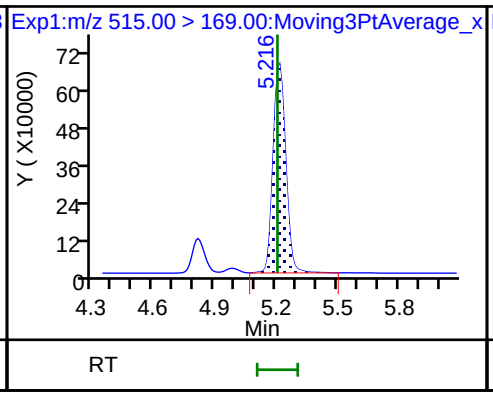
D 43 d7-N-MeFOSE-M



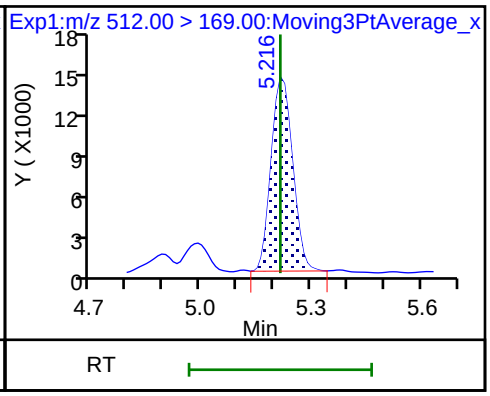
47 N-MeFOSE-M



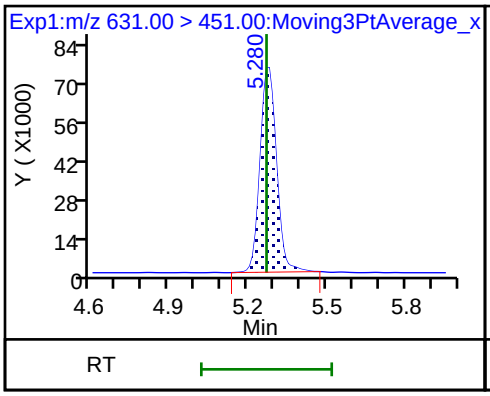
D 49 d-N-MeFOSA-M



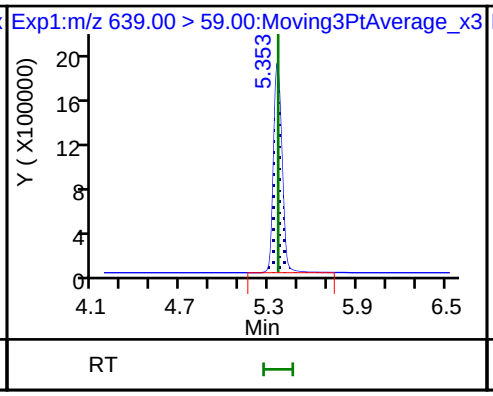
50 NMeFOSA



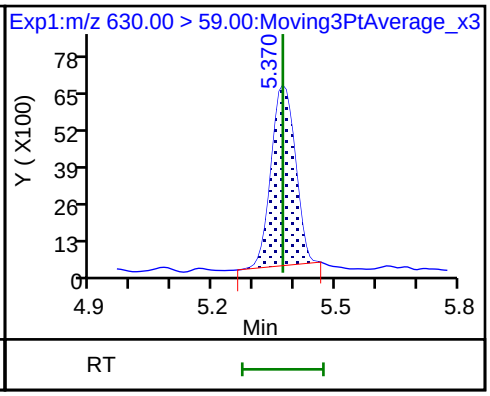
51 11ClFOS



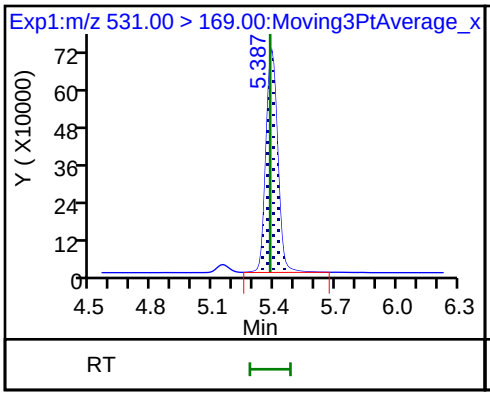
D 52 d9-N-EtFOSE-M



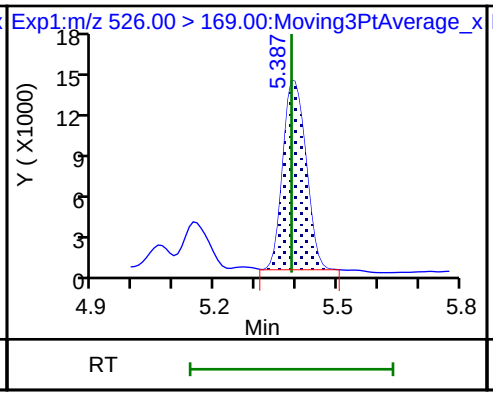
53 N-EtFOSE-M



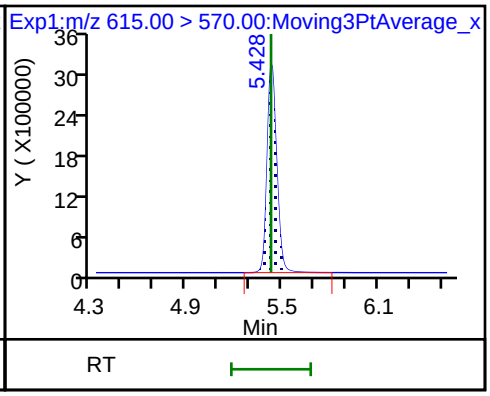
D 54 d-N-EtFOSA-M



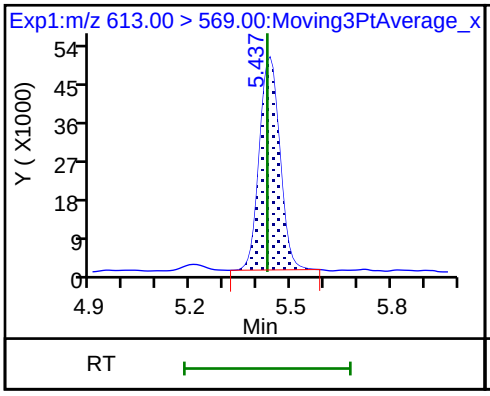
55 N-EtFOSA-M



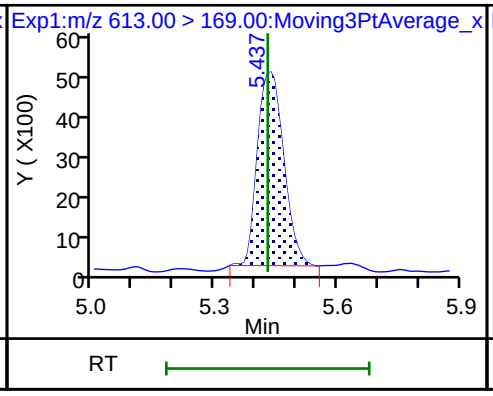
D 56 13C2 PFDoA



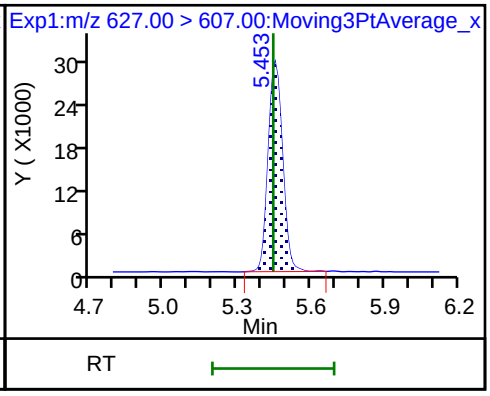
57 Perfluorododecanoic acid



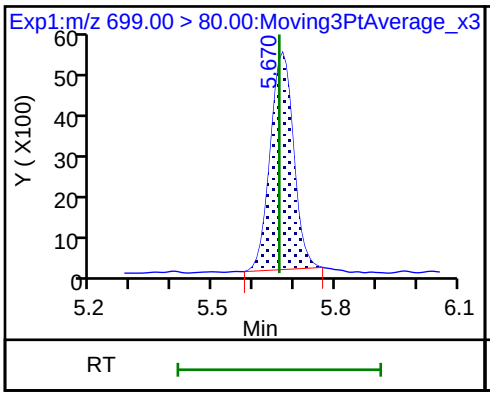
57 Perfluorododecanoic acid



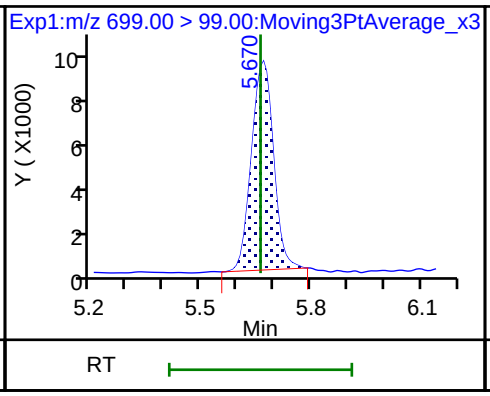
58 10:2 FTS



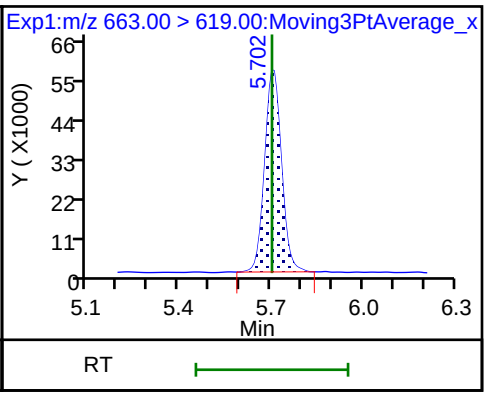
59 PFDoS



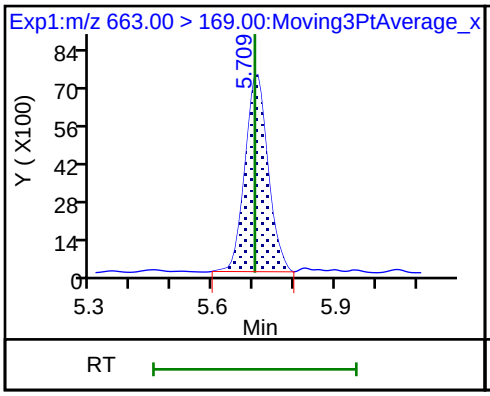
59 PFDoS



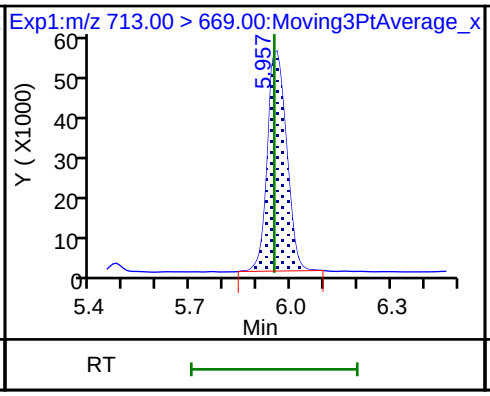
60 Perfluorotridecanoic acid



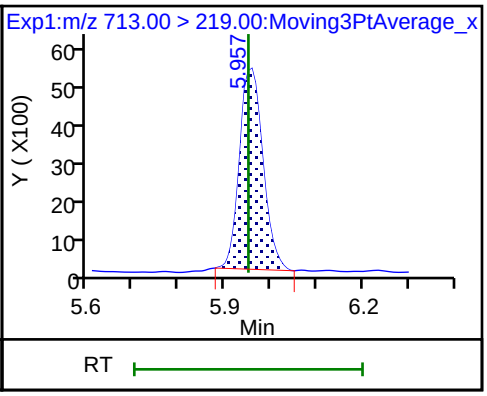
60 Perfluorotridecanoic acid



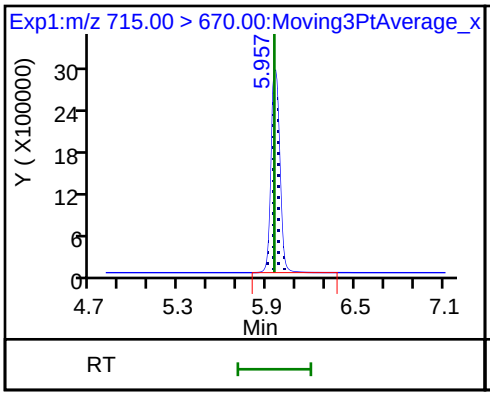
62 Perfluorotetradecanoic acid



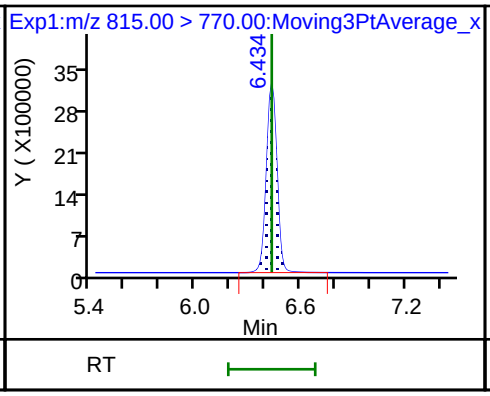
62 Perfluorotetradecanoic acid



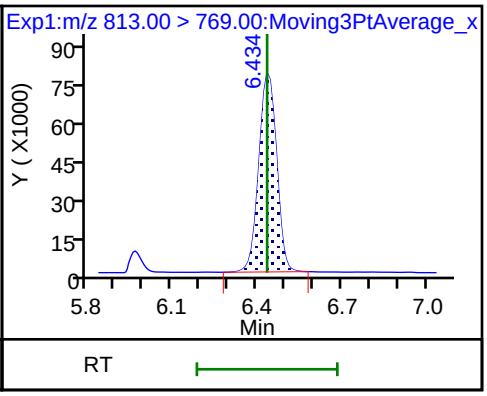
D 61 13C2 PFTeDA



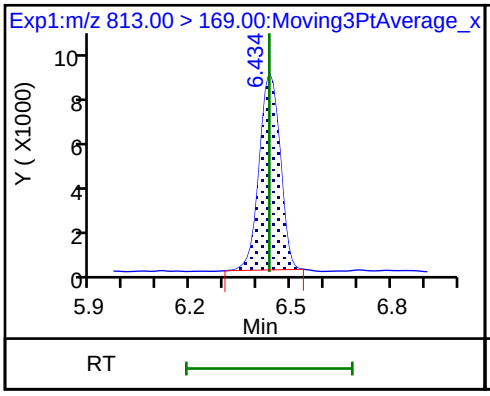
D 64 13C2 PFHxDA



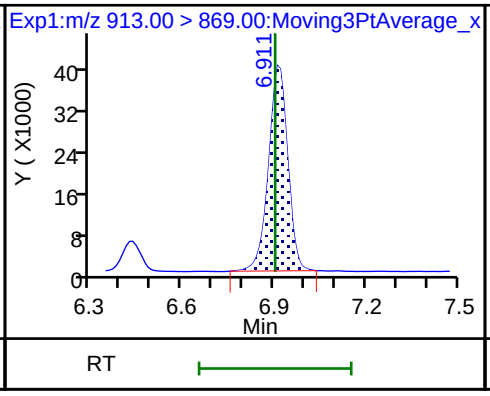
63 Perfluorohexadecanoic acid



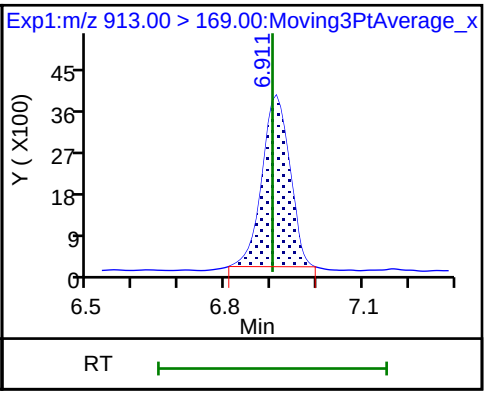
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

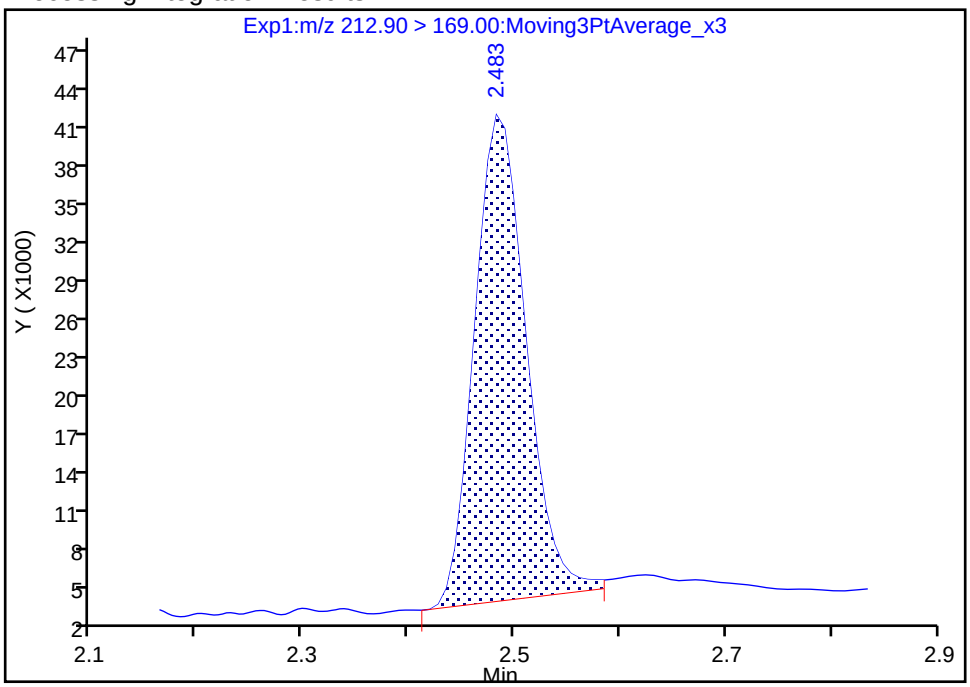
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

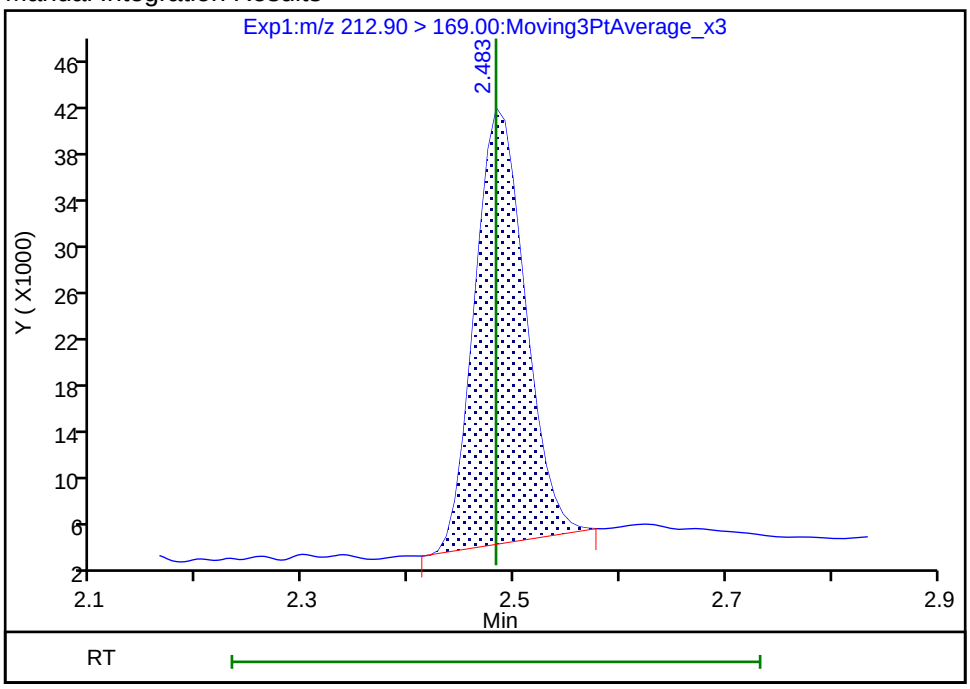
Processing Integration Results

RT: 2.48
Area: 126406
Amount: 0.044436
Amount Units: ng/ml



Manual Integration Results

RT: 2.48
Area: 122348
Amount: 0.043009
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:15:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

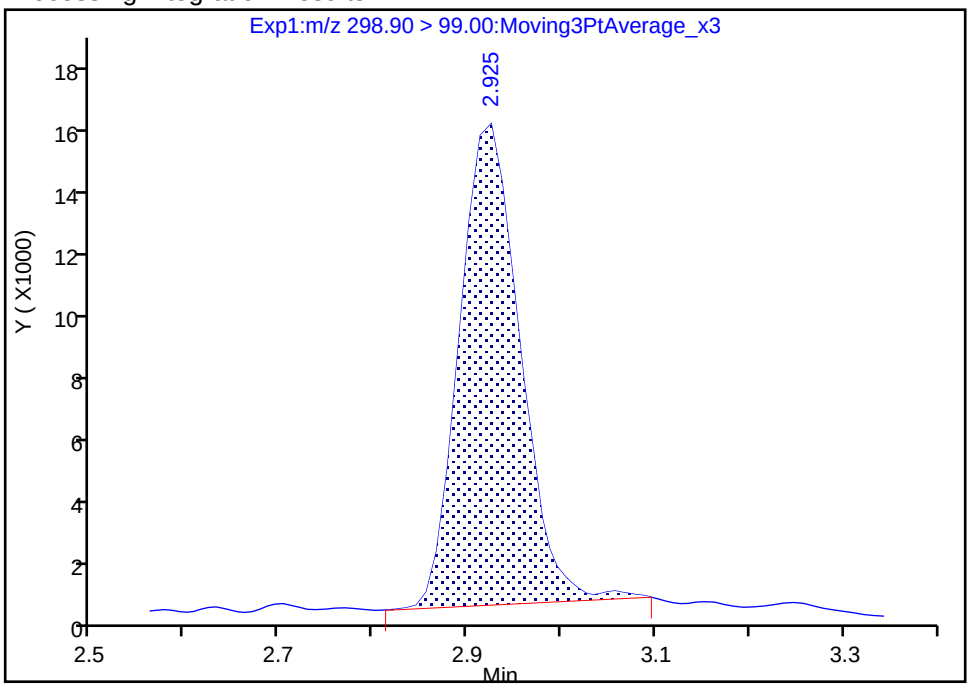
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

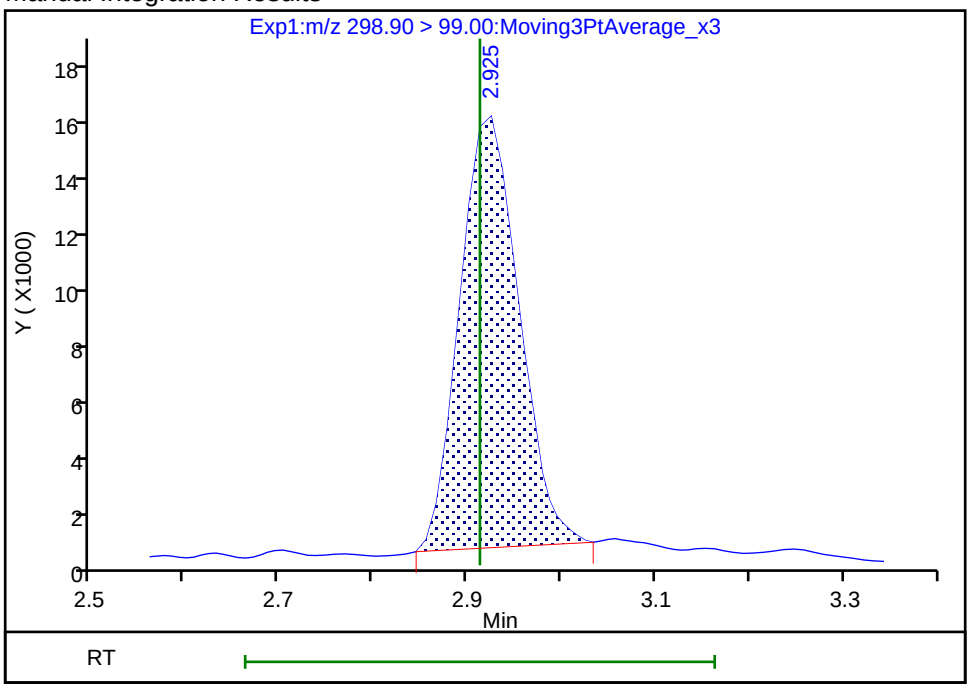
Processing Integration Results

RT: 2.93
Area: 68434
Amount: 0.037594
Amount Units: ng/ml



Manual Integration Results

RT: 2.93
Area: 66207
Amount: 0.037594
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:15:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

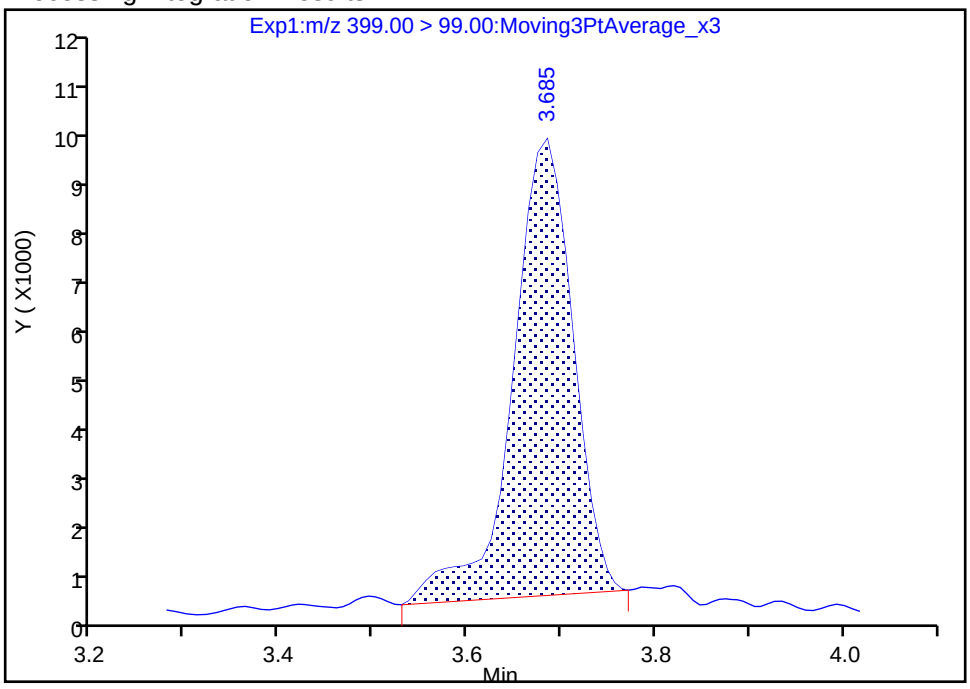
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

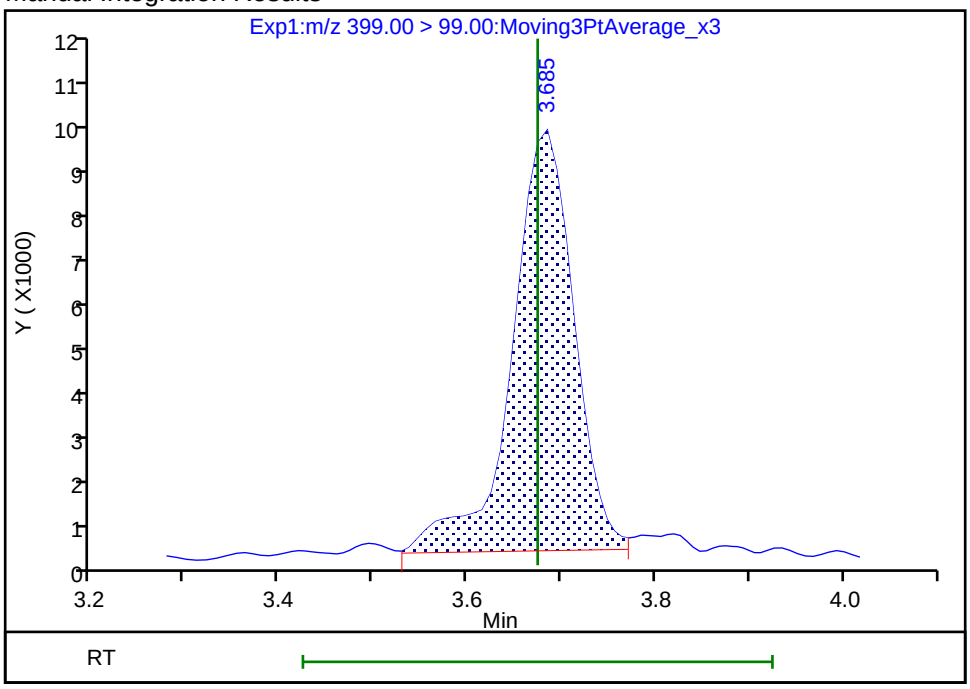
Processing Integration Results

RT: 3.68
Area: 39003
Amount: 0.047788
Amount Units: ng/ml



Manual Integration Results

RT: 3.68
Area: 41043
Amount: 0.043171
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:15:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

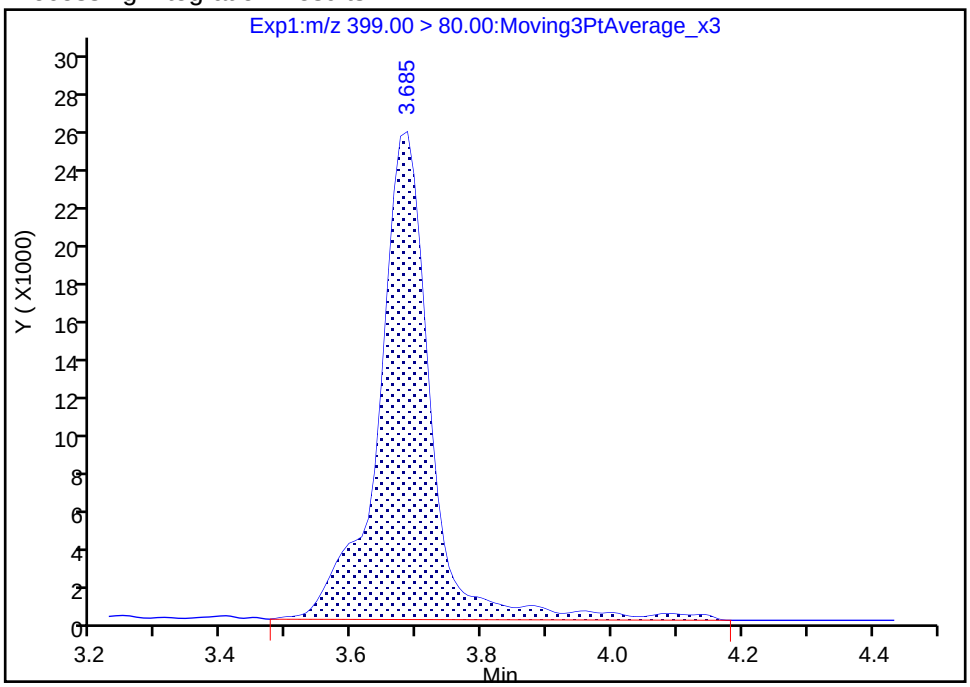
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

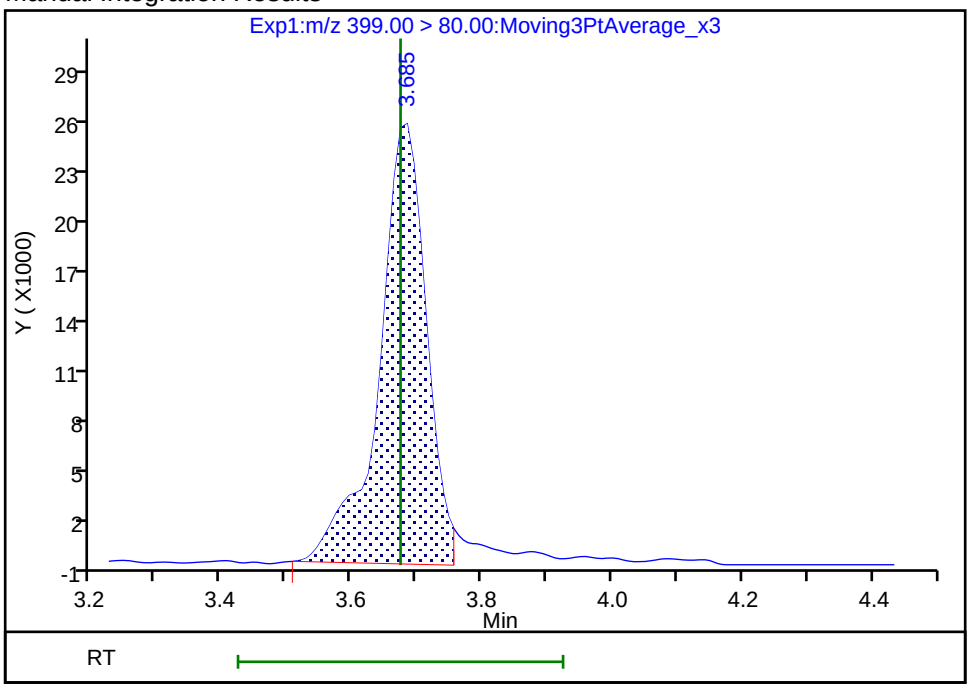
Processing Integration Results

RT: 3.68
Area: 141263
Amount: 0.047788
Amount Units: ng/ml



Manual Integration Results

RT: 3.68
Area: 127615
Amount: 0.043171
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:15:46
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

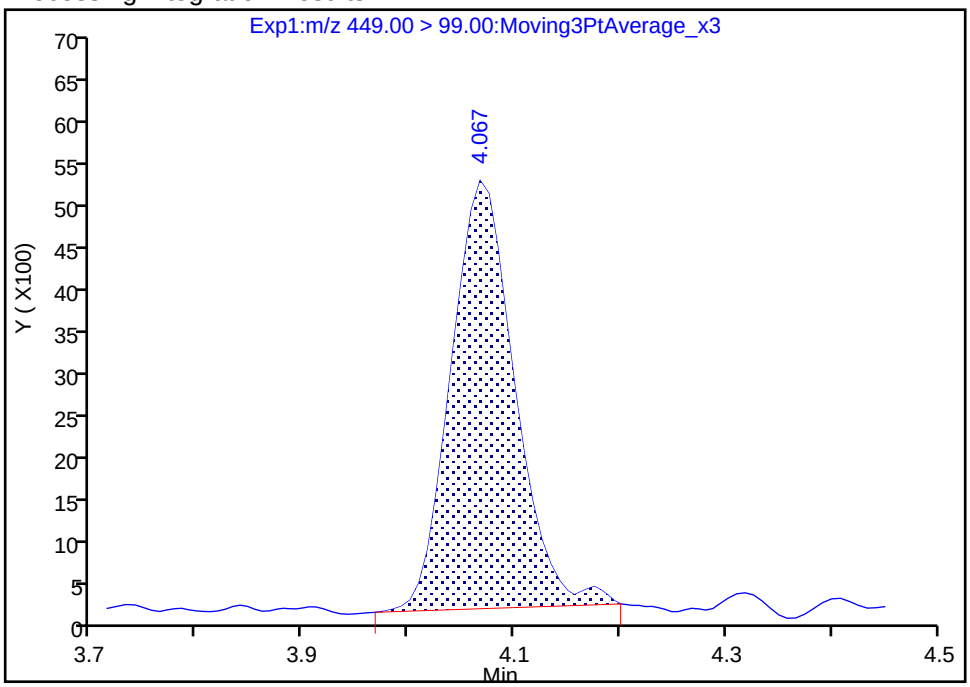
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d				
Injection Date:	10-Sep-2020 10:46:09	Instrument ID:	A13		
Lims ID:	CCVL				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	51	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

22 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

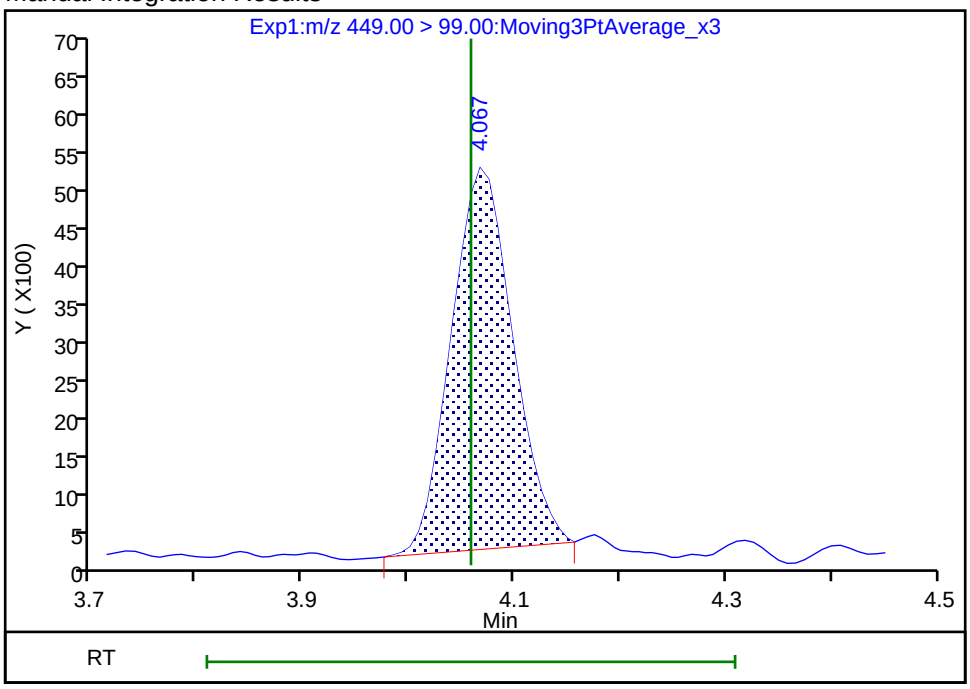
Processing Integration Results

RT: 4.07
Area: 21569
Amount: 0.043354
Amount Units: ng/ml



Manual Integration Results

RT: 4.07
Area: 20457
Amount: 0.043354
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:16:01
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

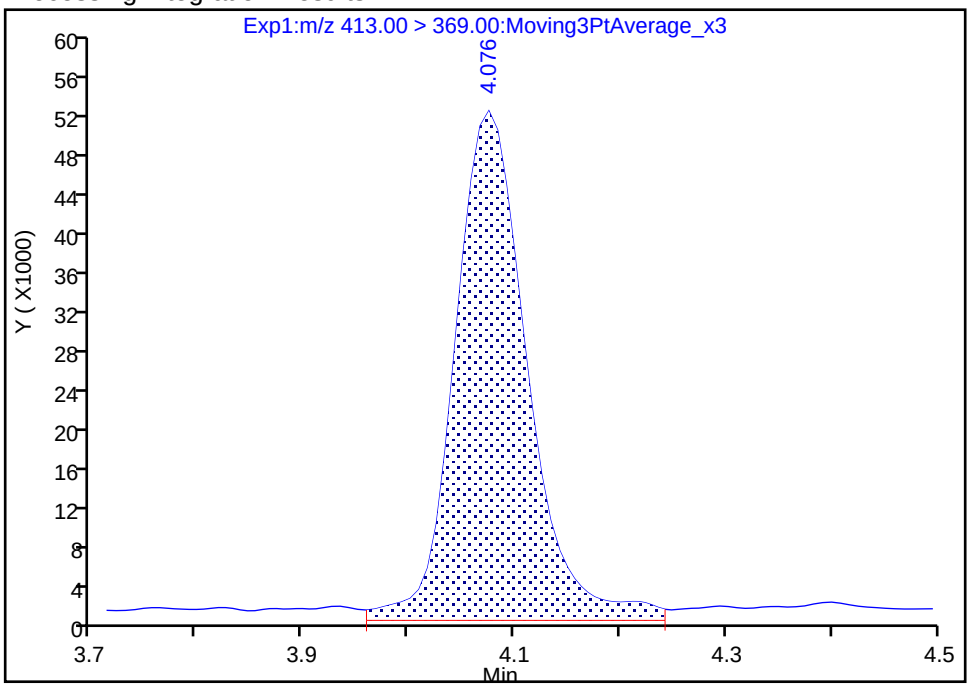
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

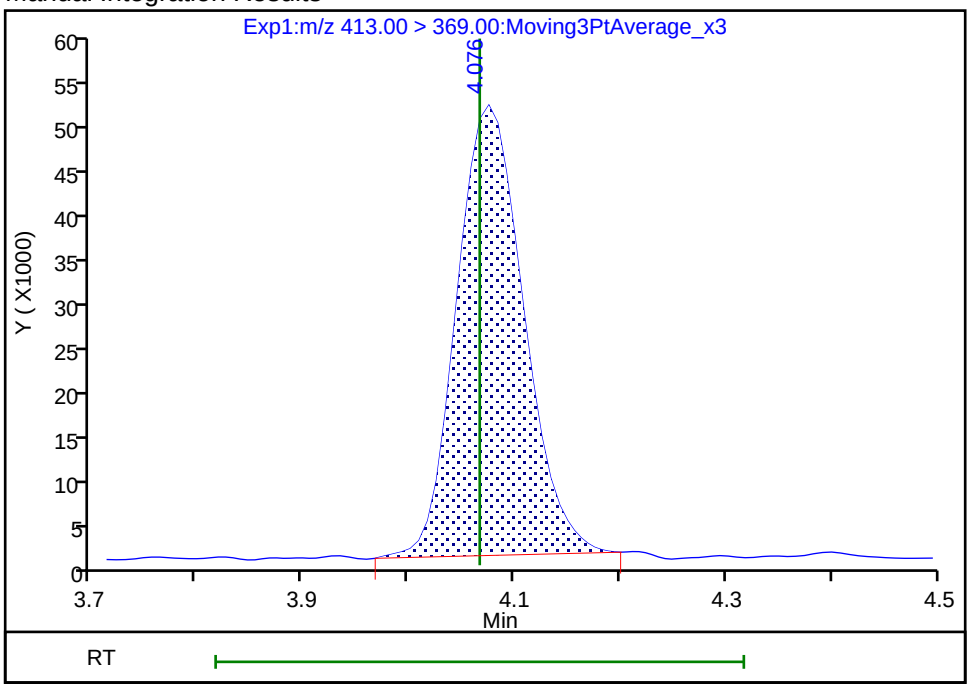
Processing Integration Results

RT: 4.08
Area: 247747
Amount: 0.056241
Amount Units: ng/ml



Manual Integration Results

RT: 4.08
Area: 222011
Amount: 0.050398
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:16:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

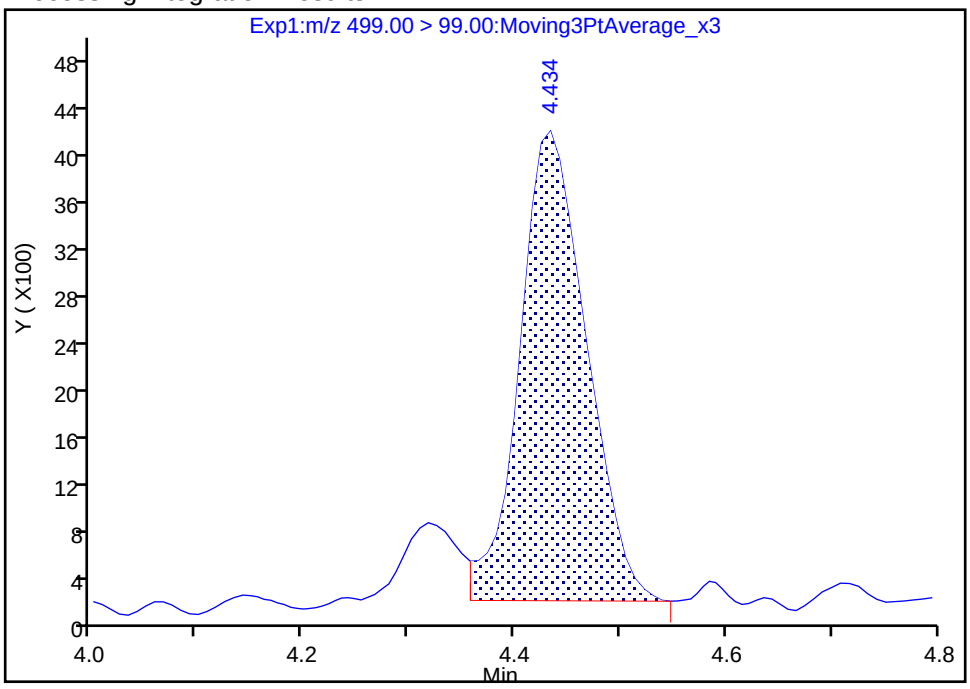
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

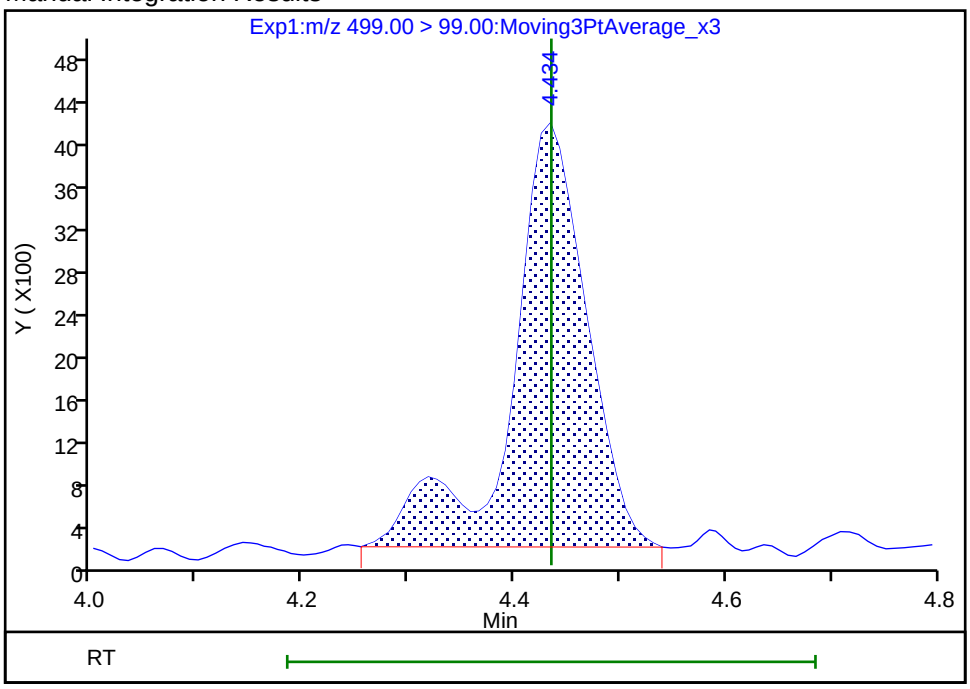
Processing Integration Results

RT: 4.43
Area: 17414
Amount: 0.048260
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 19655
Amount: 0.048260
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:16:33
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

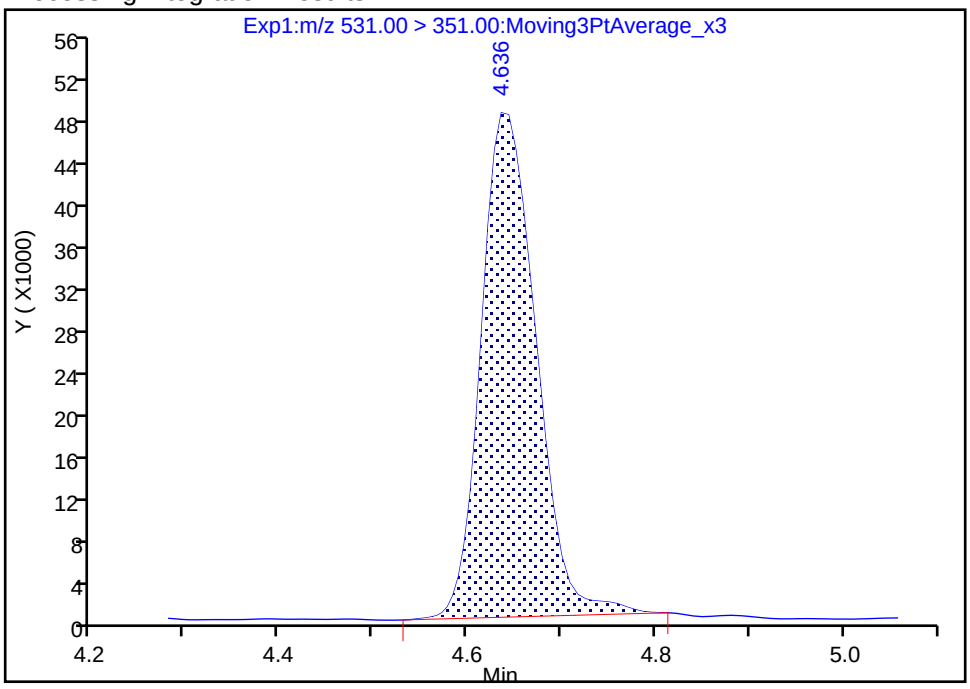
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

32 9ClFOS, CAS: 756426-58-1

Signal: 1

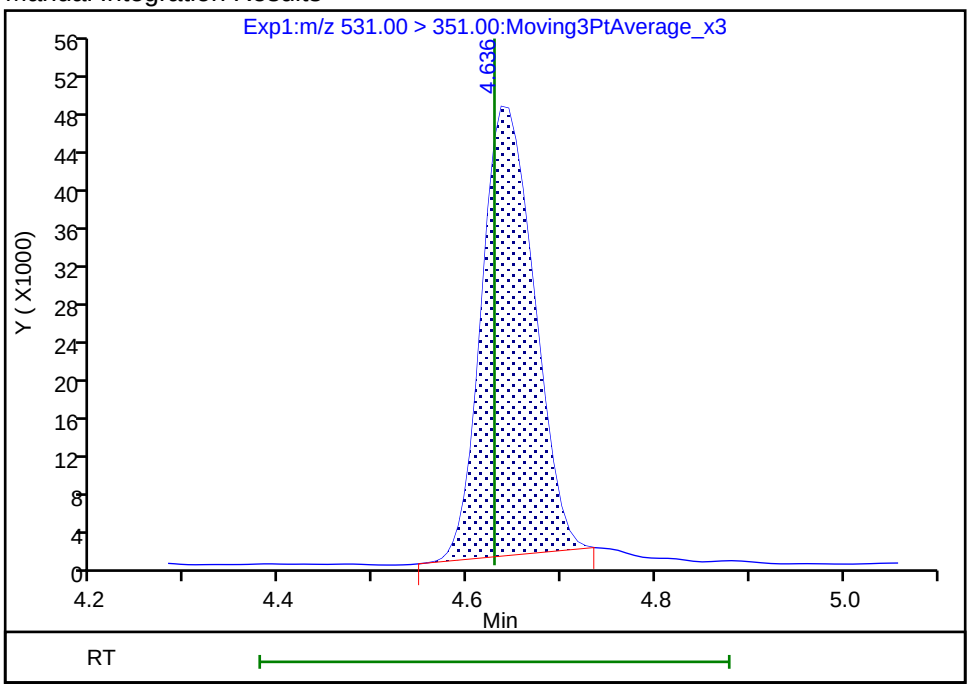
Processing Integration Results

RT: 4.64
Area: 195401
Amount: 0.043006
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 184713
Amount: 0.040653
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:16:50
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

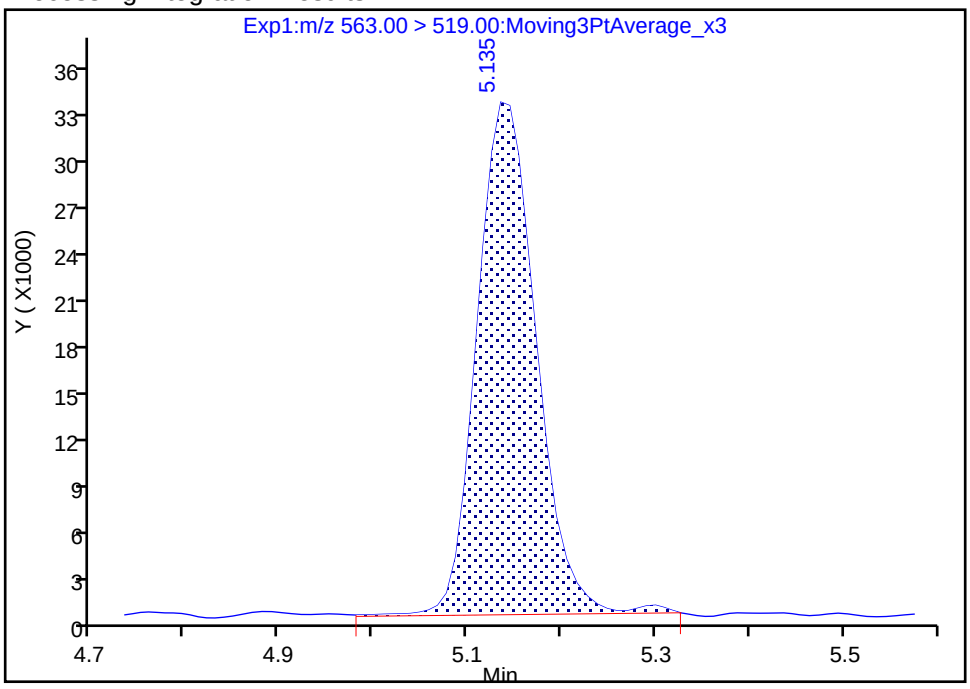
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_005.d
Injection Date: 10-Sep-2020 10:46:09 Instrument ID: A13
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 51 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

45 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

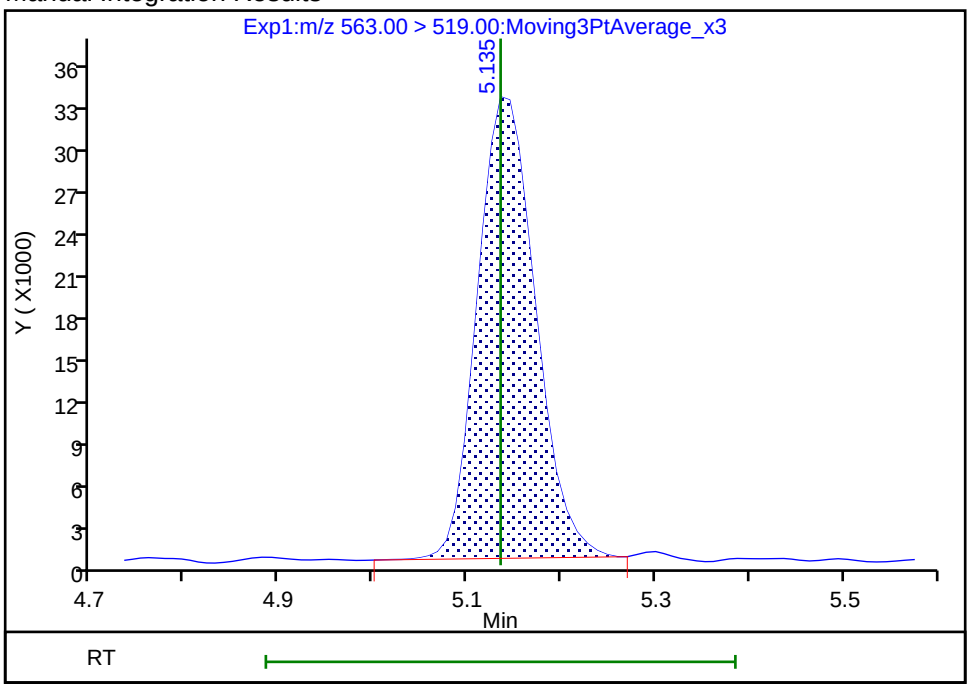
Processing Integration Results

RT: 5.14
Area: 144963
Amount: 0.046240
Amount Units: ng/ml



Manual Integration Results

RT: 5.14
Area: 141688
Amount: 0.045195
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:17:05
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-410989/3 Calibration Date: 09/10/2020 10:55

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.7433	0.8124		1.09	1.00	9.3	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.028	1.041		1.01	1.00	1.3	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9776	1.060		0.958	0.884	8.4	50.0
4:2 FTS	AveID	3.243	3.614		1.04	0.934	11.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9294	1.043		1.12	1.00	12.3	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7896	0.8648		1.03	0.938	9.5	50.0
HFPO-DA (GenX)	AveID	0.2972	0.3133		1.05	1.00	5.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.035		1.02	1.00	2.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.112	1.112		0.910	0.910	0.0	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.136	6.025		1.11	0.942	17.3	50.0
6:2 FTS	AveID	2.407	2.514		0.990	0.948	4.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.139	1.268		1.06	0.952	11.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.023	1.096		1.07	1.00	7.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.038	1.142		1.02	0.928	10.0	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9494	0.9897		1.04	1.00	4.2	40.0
F-53B Major	AveID	2.501	2.813		1.05	0.932	12.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9383	1.003		1.07	1.00	6.8	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7747	0.8874		1.10	0.960	14.5	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.8964	0.9802		1.09	1.00	9.3	40.0
8:2 FTS	AveID	2.472	2.692		1.04	0.958	8.9	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8055	0.8510		1.06	1.00	5.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6588	0.7013		1.03	0.964	6.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6615	0.7016		1.06	1.00	6.1	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7741	0.8147		1.05	1.00	5.2	40.0
NMeFOSE	AveID	1.065	1.240		1.16	1.00	16.4	40.0
NMeFOSA	AveID	0.9832	1.200		1.22	1.00	22.1	50.0
F-53B Minor	AveID	4.317	5.153		1.12	0.942	19.4	50.0
NEtFOSE	AveID	1.035	1.106		1.07	1.00	6.8	40.0
NEtFOSA	AveID	1.062	1.155		1.09	1.00	8.8	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9122	0.9942		1.10	1.01	9.0	40.0
10:2 FTS	AveID	1.632	2.009		1.19	0.964	23.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2572	0.2682		1.01	0.968	4.3	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-410989/3 Calibration Date: 09/10/2020 10:55

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	1.127		1.20	1.00	20.2	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.9843	1.044		1.06	1.00	6.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9357		0.959	1.00	-4.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7306	0.9072		1.24	1.00	24.2	50.0
13C4 PFBA	Ave	0.8499	0.9174		2.70	2.50	7.9	50.0
13C5 PFPeA	Ave	0.6625	0.6943		2.62	2.50	4.8	50.0
13C3 PFBS	Ave	0.8317	0.9400		2.63	2.33	13.0	50.0
M2-4:2 FTS	Ave	0.2037	0.1950		2.24	2.34	-4.3	50.0
13C2 PFHxA	Ave	0.8183	0.8360		2.55	2.50	2.2	50.0
13C3 HFPO-DA	Ave	0.5866	0.5837		2.49	2.50	-0.5	50.0
13C4 PFHpA	Ave	0.8058	0.8546		2.65	2.50	6.0	50.0
18O2 PFHxS	Ave	0.5449	0.5795		2.52	2.37	6.3	50.0
M2-6:2 FTS	Ave	0.2349	0.2431		2.46	2.38	3.5	50.0
13C4 PFOA	Ave	0.9849	0.9624		2.44	2.50	-2.3	50.0
13C4 PFOS	Ave	0.3888	0.3973		2.44	2.39	2.2	50.0
13C5 PFNA	Ave	0.9099	0.9593		2.64	2.50	5.4	50.0
13C8 FOSA	Ave	0.5585	0.5729		2.57	2.50	2.6	50.0
13C2 PFDA	Ave	1.102	1.055		2.39	2.50	-4.3	50.0
M2-8:2 FTS	Ave	0.3107	0.3134		2.42	2.40	0.9	50.0
d3-NMeFOSAA	Ave	0.5682	0.5558		2.45	2.50	-2.2	50.0
13C2 PFUnA	Ave	1.078	1.054		2.44	2.50	-2.3	50.0
d5-NEtFOSAA	Ave	0.5501	0.5592		2.54	2.50	1.7	50.0
d7-N-MeFOSE-M	Ave	0.1398	0.1212		10.8	12.5	-13.3	50.0
d-N-MeFOSA-M	Ave	0.2628	0.2524		2.40	2.50	-4.0	50.0
d9-N-EtFOSE-M	Ave	0.1640	0.1516		11.6	12.5	-7.6	50.0
d-N-EtFOSA-M	Ave	0.2510	0.2477		2.47	2.50	-1.3	50.0
13C2 PFDoA	Ave	1.160	1.063		2.29	2.50	-8.4	50.0
13C2 PFTeDA	Ave	1.146	1.045		2.28	2.50	-8.8	50.0
13C2 PFHxDA	Ave	1.193	1.045		2.19	2.50	-12.4	50.0
13C8 PFOA	Ave	0.8908	0.8560		2.35	2.45	-3.9	50.0
13C8 PFOS	Ave	0.2076	0.2121		2.44	2.39	2.2	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_006.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Sep-2020 10:55:32 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4 (30)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 11:44:11 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1047

First Level Reviewer: hsuw Date: 10-Sep-2020 11:40:34
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.482	2.482	0.0	0.610	9579527	2.70		108	12245	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.482	2.482	0.0	1.000	3113019	1.09		109	903	
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.878	0.0	0.708	7249985	2.62		105	14585	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.878	0.0	1.000	3019418	1.01		101	313	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.716	9128362	2.63		113	13998	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.913	2.913	0.0	1.000	3678403	0.9583	Target=2.18	108	3642	
298.90 > 99.00	2.913	2.913	0.0	1.000	1631690		2.25(1.09-3.26)		699	
7 4:2 FTS										
327.00 > 307.00	3.225	3.225	0.0	1.000	2749660	1.04		111	7064	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.225	3.225	0.0	0.793	1901912	2.24		95.7	1340	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.268	3.268	0.0	1.000	3643016	1.12	Target=11.68	112	491	
313.00 > 119.00	3.268	3.268	0.0	1.000	273056		13.34(5.84-17.52)		112	
D 9 13C2 PFHxA										
315.00 > 270.00	3.268	3.268	0.0	0.804	8729926	2.55		102	16609	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.279	3.279	0.0	1.126	3184867	1.03	Target=2.56	110	3793	
349.00 > 99.00	3.279	3.279	0.0	1.126	1211084		2.63(1.28-3.84)		838	
12 HPFO-DA										
285.00 > 169.00	3.388	3.388	0.0	1.000	763865	1.05		105	2887	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.388	0.0	0.833	6095345	2.49		99.5	8032	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.675	3.675	0.0	1.000	3694239	1.02	Target=3.85	102	569	
363.00 > 169.00	3.675	3.675	0.0	1.000	969461		3.81(1.92-5.77)		480	
D 15 13C4 PFHpA										
367.00 > 322.00	3.675	3.675	0.0	0.904	8923332	2.65		106	8551	
D 17 18O2 PFHxS										
403.00 > 84.00	3.675	3.675	0.0	0.904	5724203	2.52		106	32269	
18 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.675	3.675	0.0	1.000	2450150	0.9101	Target=3.25	100	431529	
399.00 > 99.00	3.675	3.675	0.0	1.000	788696		3.11(1.62-4.87)		279	
19 DONA										
377.00 > 251.00	3.722	3.722	0.0	0.839	9417580	1.11	Target=2.76	117	23335	
377.00 > 85.00	3.722	3.722	0.0	0.839	3316204		2.84(1.38-4.14)		2829	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.050	4.050	0.0	0.996	2411940	2.46		104	4372	
21 6:2 FTS										
427.00 > 407.00	4.050	4.050	0.0	1.000	2419953	0.99		104	2289	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.059	4.059	0.0	0.915	2003284	1.06	Target=4.29	111	1173	
449.00 > 99.00	4.059	4.059	0.0	0.915	486084		4.12(2.15-6.44)		285	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.059	0.0	0.998	8750653	2.35		96.1	19609	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.067	4.067	0.0	1.000	4409467	1.07	Target=2.95	107	1236	
413.00 > 169.00	4.067	4.067	0.0	1.000	1476214		2.99(1.47-4.42)		1205	
* 25 13C2 PFOA										
415.00 > 370.00	4.067	4.067	0.0		10441921	2.50			16786	
D 24 13C4 PFOA										
417.00 > 372.00	4.067	4.067	0.0	1.000	10049813	2.44		97.7	6976	
$ 27 13C8 PFOS										
507.00 > 99.00	4.426	4.426	0.0	1.088	2117138	2.44		102	2633	
D 29 13C4 PFOS										
503.00 > 80.00	4.435	4.435	0.0	1.090	3965539	2.44		102	2088	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.435	4.435	0.0	1.000	1758758	1.02	Target=4.28	110	734	
499.00 > 99.00	4.435	4.435	0.0	1.000	427482		4.11(2.14-6.41)		345	M
D 31 13C5 PFNA										
468.00 > 423.00	4.443	4.443	0.0	1.093	10016711	2.64		105	34380	
30 Perfluorononanoic acid										
463.00 > 419.00	4.452	4.452	0.0	1.002	3973286	1.04	Target=8.00	104	895	
463.00 > 169.00	4.452	4.452	0.0	1.002	523711		7.59(4.00-12.01)		676	
32 9ClFOS										
531.00 > 351.00	4.629	4.629	0.0	1.044	4349450	1.05		112	11025	
D 34 13C8 FOSA										
506.00 > 78.00	4.743	4.743	0.0	1.166	5982024	2.56		103	4724	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.743	4.743	0.0	1.000	2398915	1.07		107	3729	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.777	4.777	0.0	1.077	1413536	1.10	Target=2.15	115	1444	
549.00 > 99.00	4.777	4.777	0.0	1.077	681596		2.07(1.08-3.23)		1016	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.804	4.804	0.0	1.000	4317923	1.09	Target=10.44	109	1747	
513.00 > 169.00	4.804	4.804	0.0	1.000	376871		11.46(5.22-15.65)		286	
D 37 13C2 PFDA										
515.00 > 470.00	4.804	4.804	0.0	1.181	11013280	2.39		95.7	9294	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.813	0.0	1.183	3134763	2.42		101	3758	
39 8:2 FTS										
527.00 > 507.00	4.813	4.813	0.0	1.000	3375593	1.04		109	7922	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.971	4.971	0.0	1.222	5804124	2.45		97.8	4798	
41 NMeFOSAA										
570.00 > 419.00	4.971	4.971	0.0	1.000	1975799	1.06		106	310	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.106	5.106	0.0	1.151	1121795	1.03	Target=2.36	106	1450	
599.00 > 99.00	5.106	5.106	0.0	1.151	494613		2.27(1.18-3.54)		1397	
D 44 13C2 PFUnA										
565.00 > 520.00	5.135	5.135	0.0	1.263	11001331	2.44		97.7	11477	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.135	5.135	0.0	1.000	3090478	1.06	Target=8.67	106	1478	
563.00 > 169.00	5.135	5.135	0.0	1.000	334169		9.25(4.34-13.01)		1157	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.135	5.135	0.0	1.263	5839236	2.54		102	3134	
48 NEtFOSA										
584.00 > 419.00	5.144	5.144	0.0	1.002	1902872	1.05		105	24131	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.184	0.0	1.275	6330112	10.8		86.7	2098	
47 N-MeFOSE-M										
616.00 > 59.00	5.194	5.194	0.0	1.002	627755	1.16		116	939	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	0.0	1.280	2635175	2.40		96.0	47.8	
50 NMeFOSA										
512.00 > 169.00	5.216	5.216	0.0	1.002	1265093	1.22		122	242	
51 11ClFOS										
631.00 > 451.00	5.270	5.270	0.0	1.188	8053875	1.12		119	7592	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.362	5.362	0.0	1.318	7916492	11.6		92.4	2435	
53 N-EtFOSE-M										
630.00 > 59.00	5.371	5.371	0.0	1.002	700149	1.07		107	852	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.379	0.0	1.323	2586321	2.47		98.7	184	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.387	0.0	1.002	1194903	1.09		109	208	
D 56 13C2 PFDoA										
615.00 > 570.00	5.429	5.429	0.0	1.335	11096313	2.29		91.6	4578	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.429	5.429	0.0	1.000	4439118	1.10	Target=9.05	109	1792	
613.00 > 169.00	5.420	5.429	-0.009	0.998	469333		9.46(4.52-13.57)		1147	
58 10:2 FTS										
627.00 > 607.00	5.445	5.445	0.0	1.131	2534573	1.19		123	1956	
59 PFDoS										
699.00 > 80.00	5.662	5.662	0.0	1.277	430816	1.01	Target=0.57	104	975	
699.00 > 99.00	5.662	5.662	0.0	1.277	754861		0.57(0.29-0.86)		1628	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.702	5.702	0.0	1.050	5000174	1.20	Target=7.06	120	3374	
663.00 > 169.00	5.694	5.702	-0.008	1.049	684416		7.31(3.53-10.59)		1493	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.950	5.950	0.0	1.000	4559543	1.06	Target=11.23	106	2896	
713.00 > 219.00	5.950	5.950	0.0	1.000	404495		11.27(5.62-16.85)		2301	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.950	5.950	0.0	1.463	10910817	2.28		91.2	12815	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.435	0.0	1.582	10906696	2.19		87.6	6314	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.435	6.435	0.0	1.000	4081956	0.9588	Target=9.45	95.9	1033	
813.00 > 169.00	6.435	6.435	0.0	1.000	464623		8.79(4.72-14.17)		1508	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.902	6.902	0.0	1.073	3957774	1.24	Target=11.13	124	1670	
913.00 > 169.00	6.902	6.902	0.0	1.073	327261		12.09(5.56-16.69)		1210	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 11:44:15 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_006.d

Injection Date: 10-Sep-2020 10:55:32 Instrument ID: A13

Lims ID: CCV L4

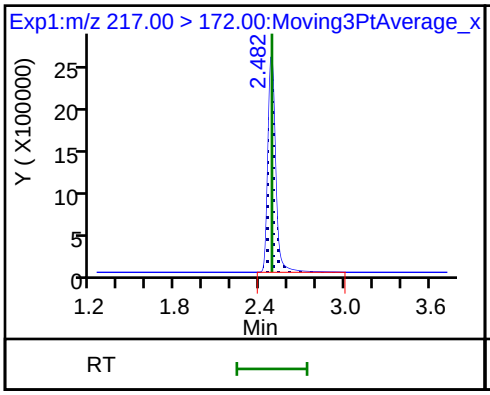
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 3

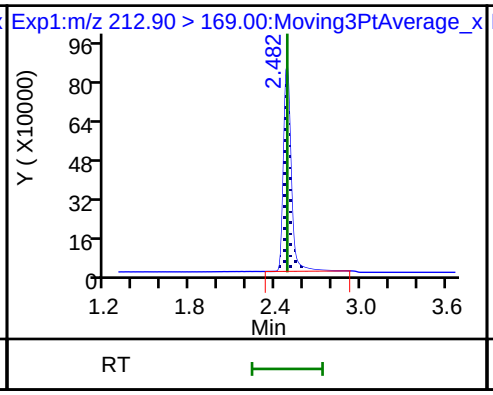
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

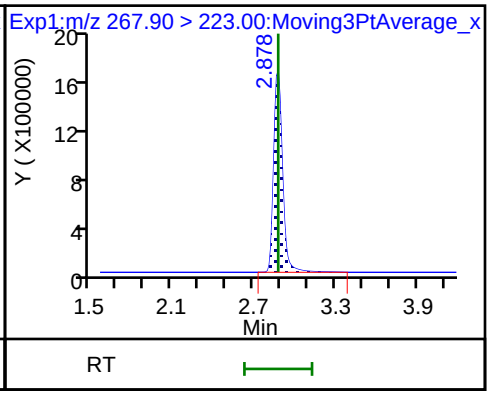
D 1 13C4 PFBA



2 Perfluorobutanoic acid



D 4 13C5 PFPeA



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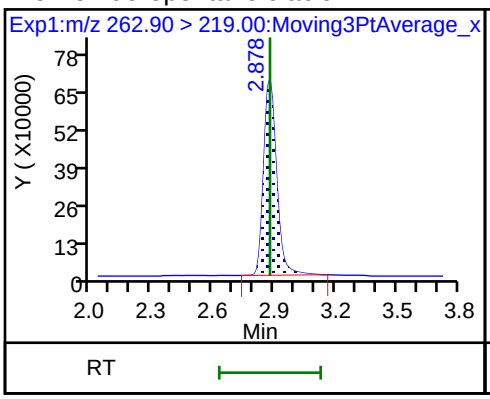
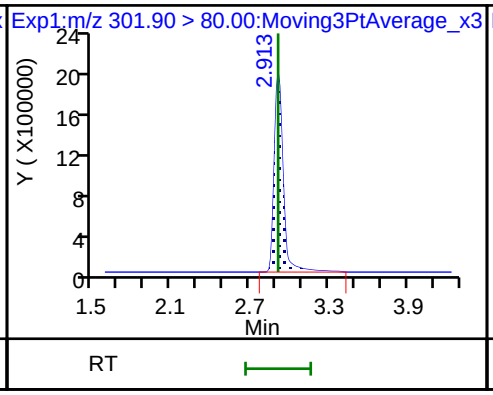


D 14 13C3 PFBS



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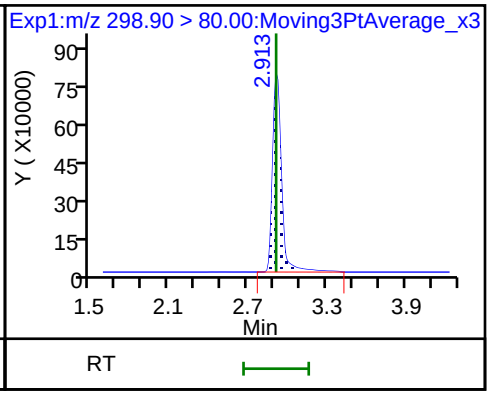

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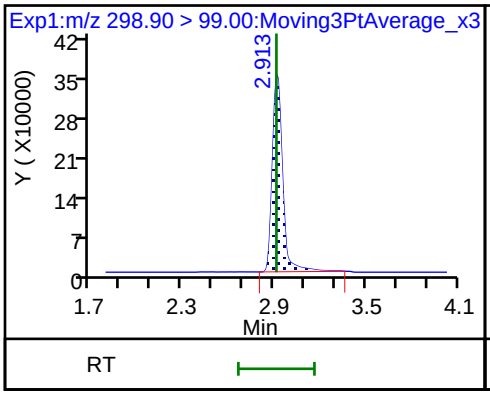
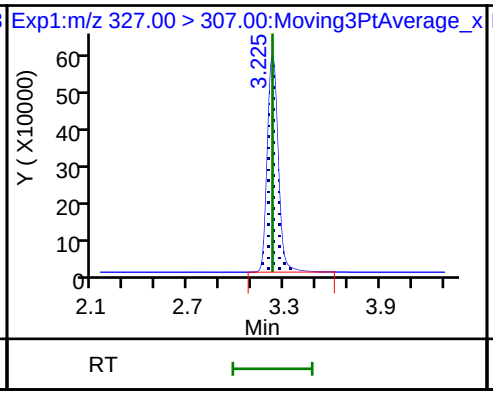


7 4:2 FTS



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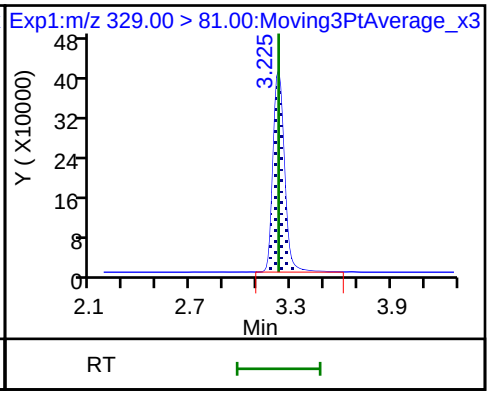

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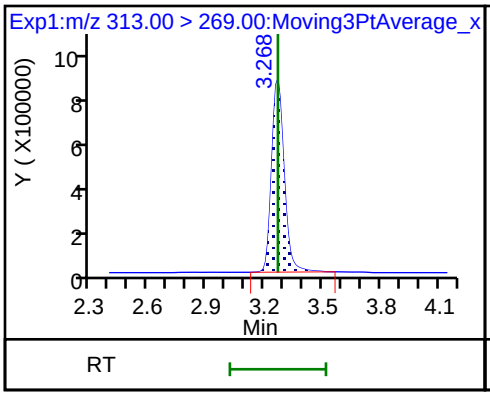

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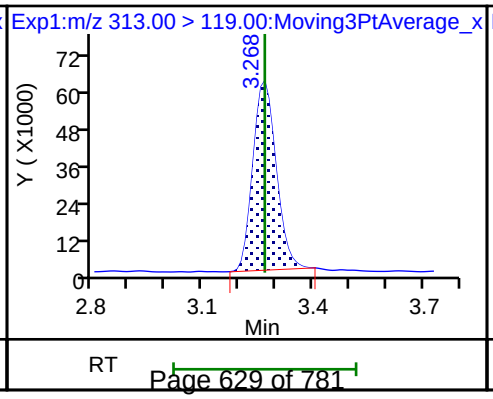
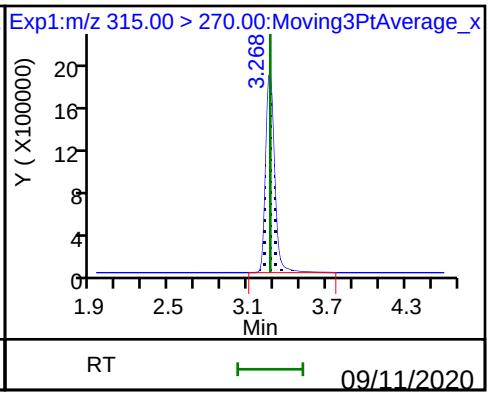


D 9 13C2 PFHxA



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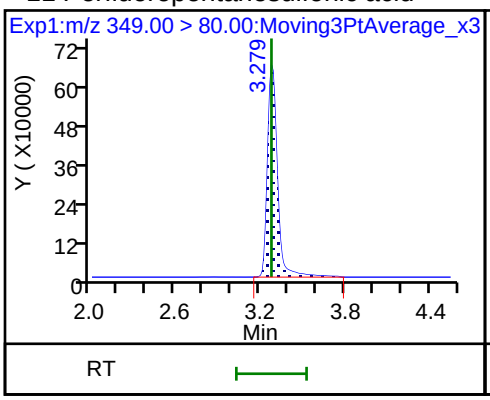

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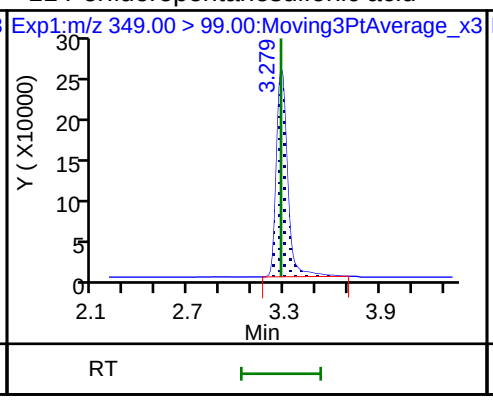
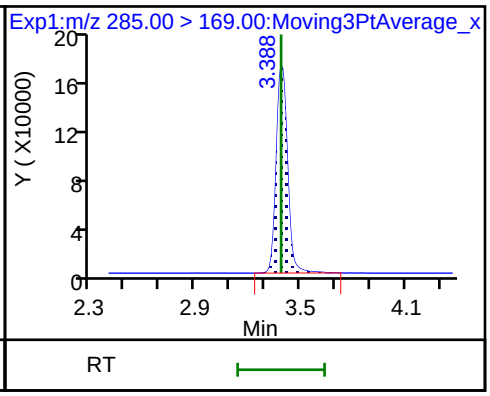
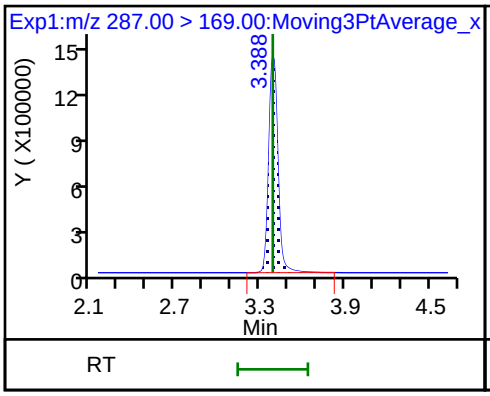


12 HPFO-DA



D 13 13C3 HFPO-DA



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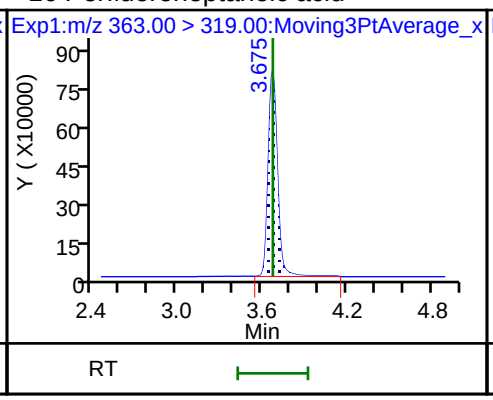

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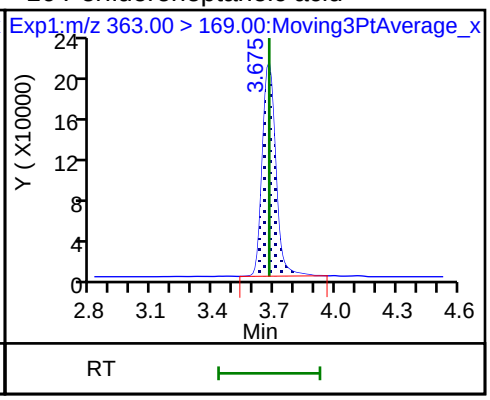
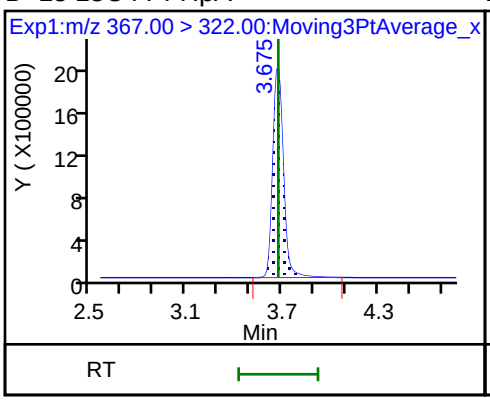


D 15 13C4 PFHpA



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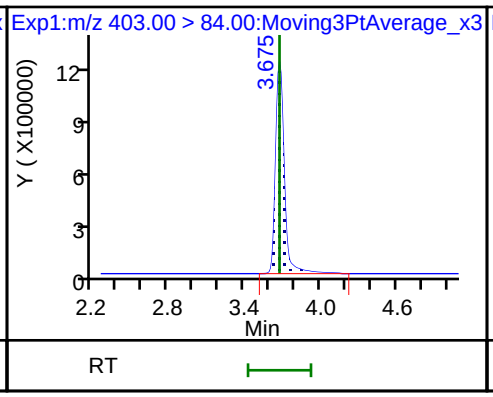

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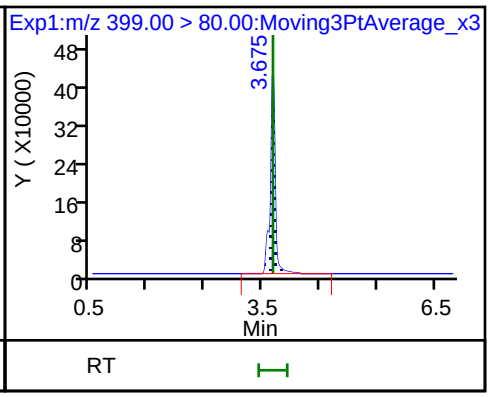

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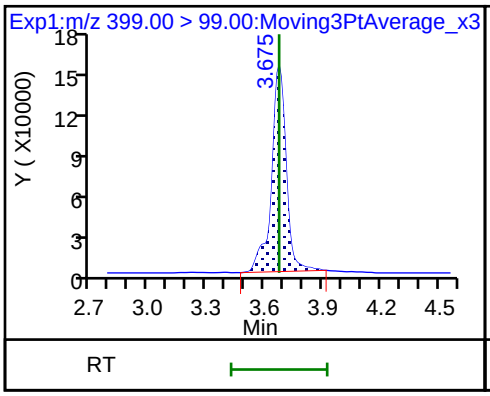
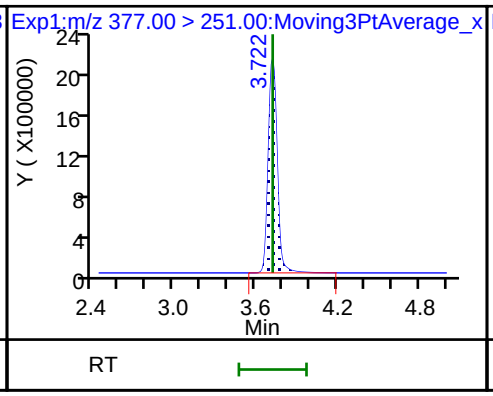


19 DONA



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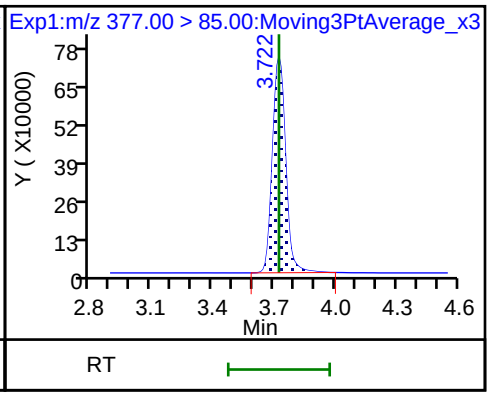

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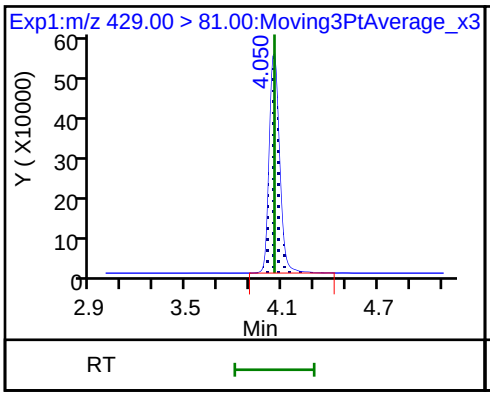

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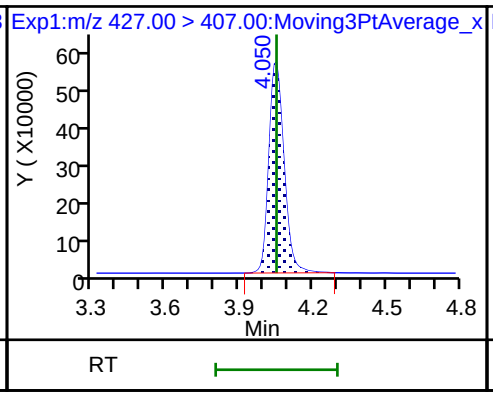

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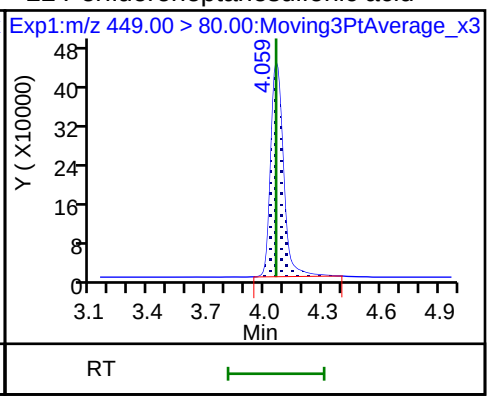

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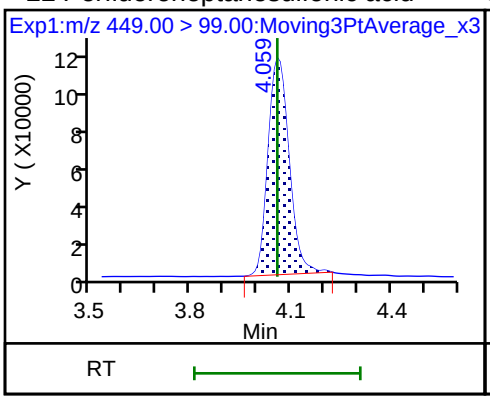
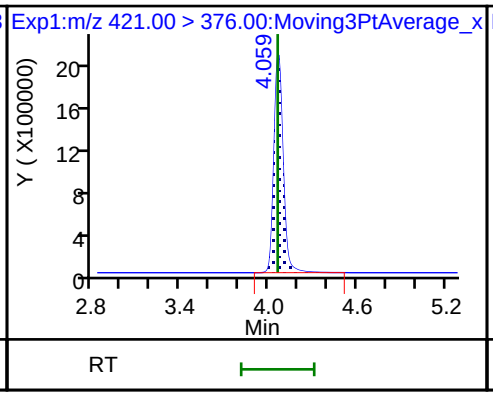
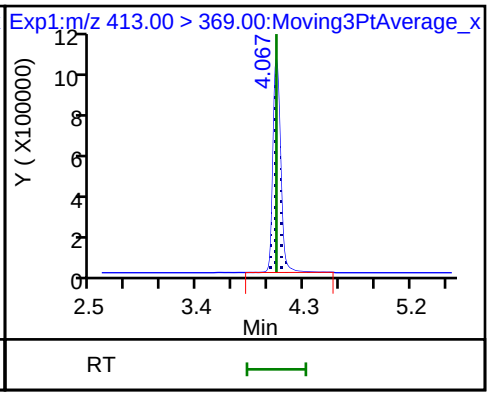


$ 23 13C8 PFOA



26 Perfluorooctanoic acid



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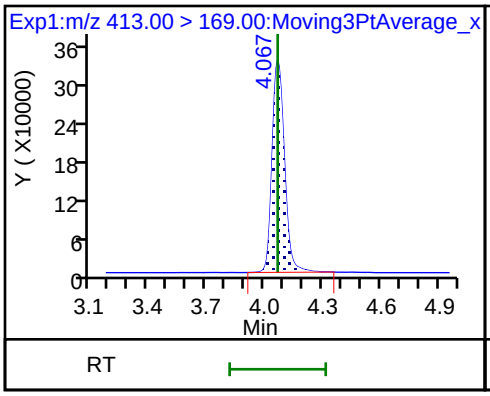
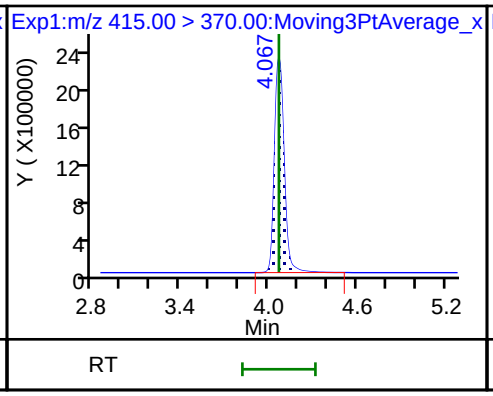
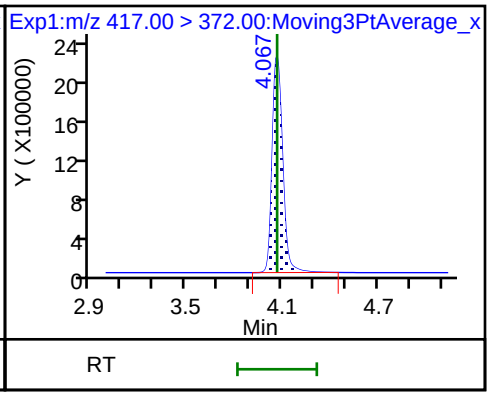


* 25 13C2 PFOA



D 24 13C4 PFOA



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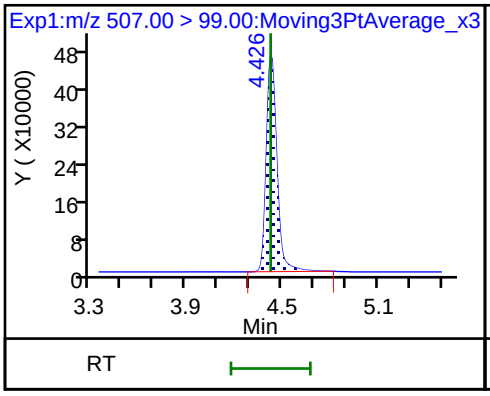

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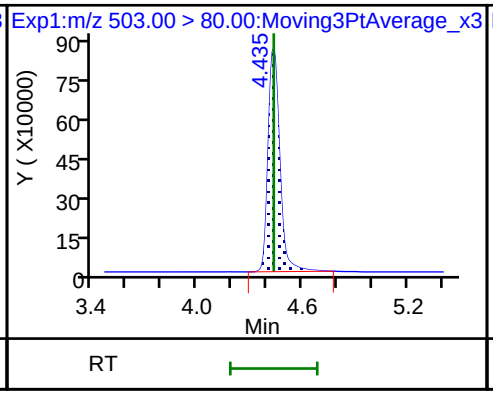
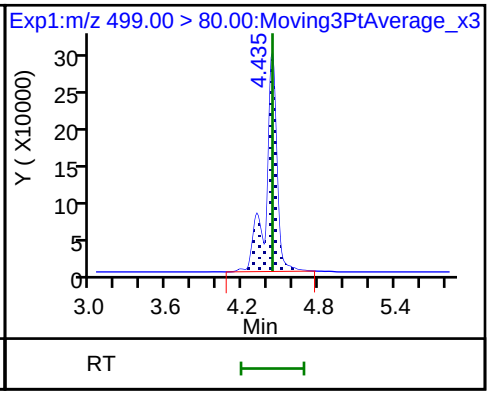
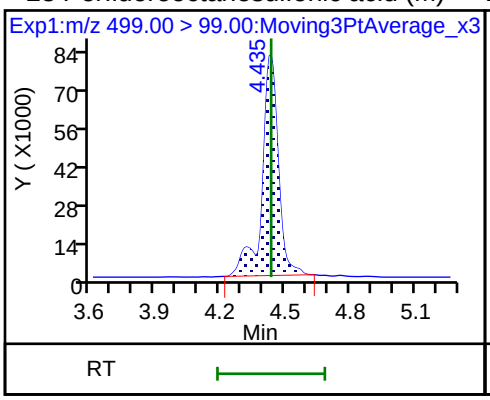


28 Perfluorooctanesulfonic acid



28 Perfluorooctanesulfonic acid (M)



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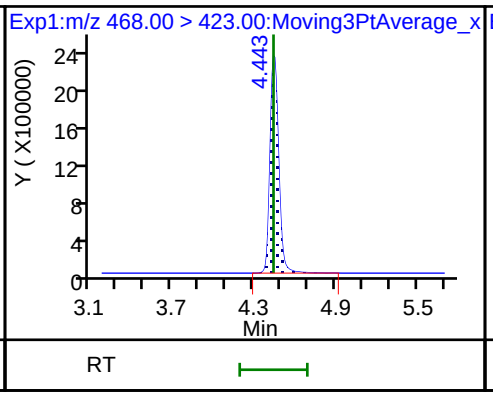
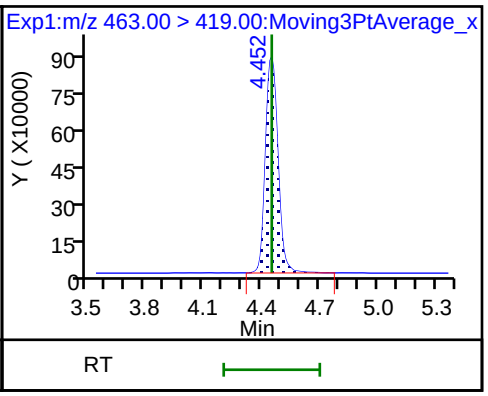


30 Perfluorononanoic acid



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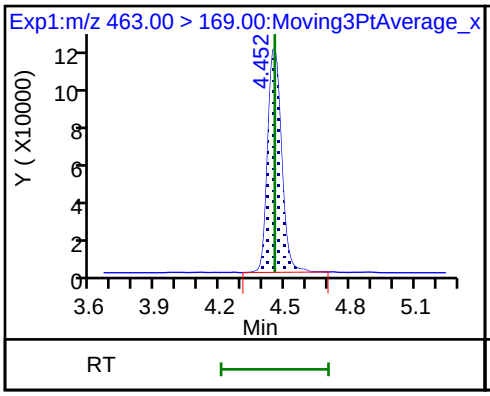
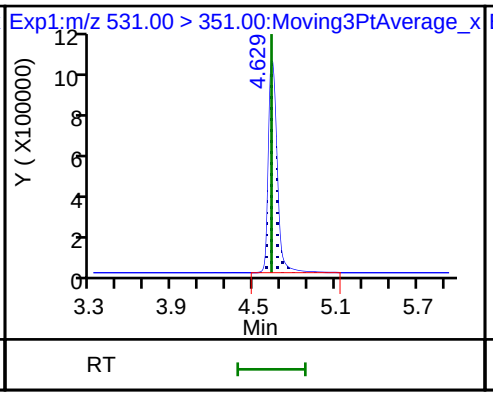
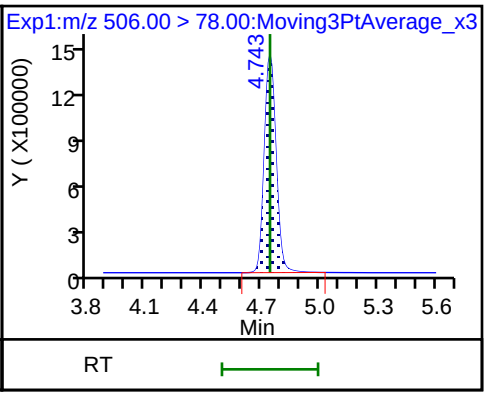


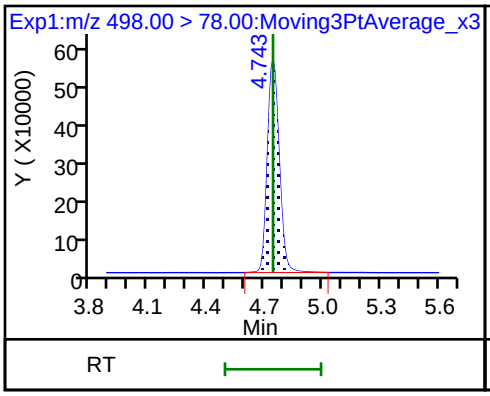
32 9ClFOS



D 34 13C8 FOSA



33 Perfluorooctanesulfonamide



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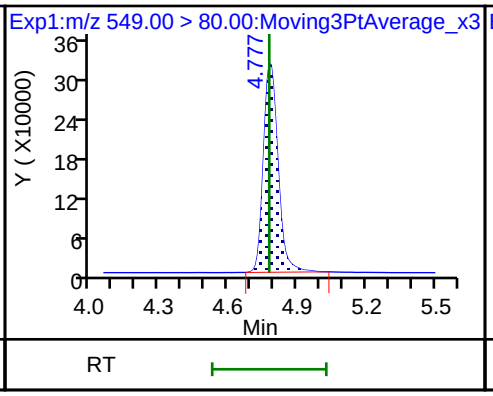

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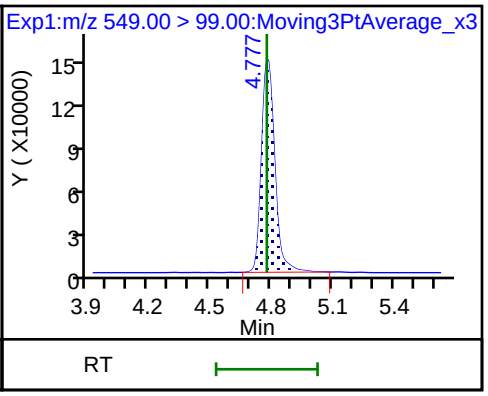

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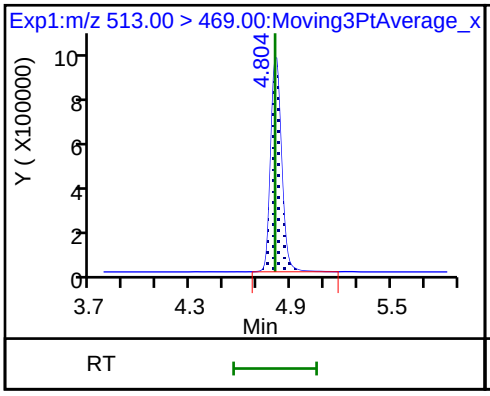
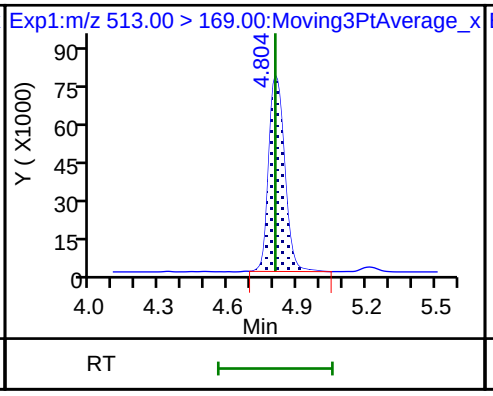
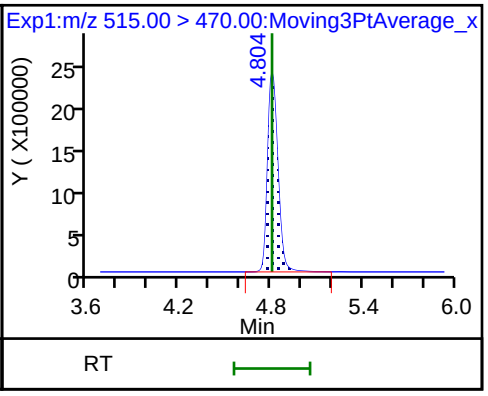


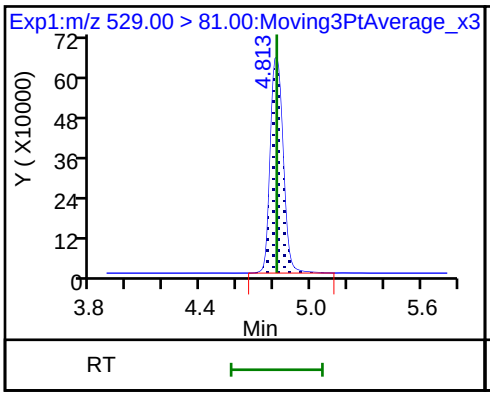
36 Perfluorodecanoic acid



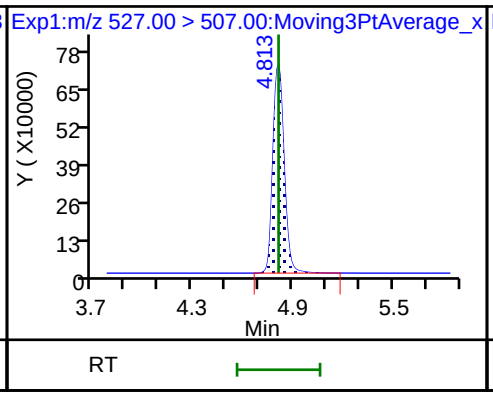
D 37 13C2 PFDA



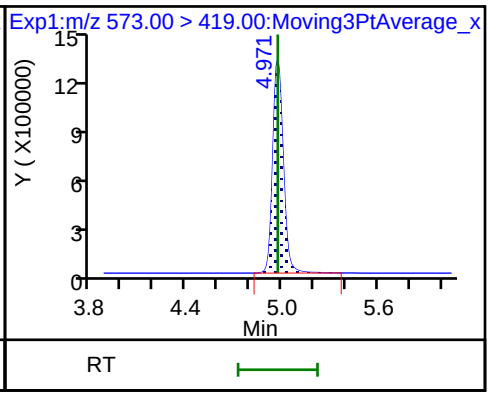
D 38 M2-8:2 FTS



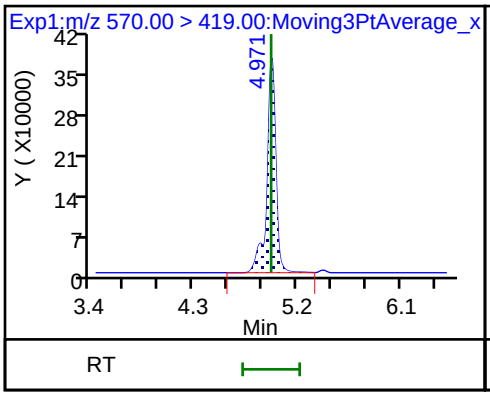
39 8:2 FTS



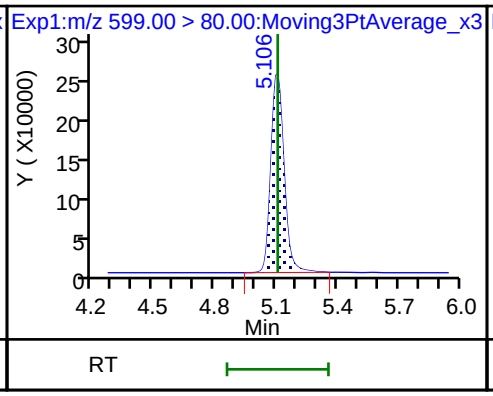
D 40 d3-NMeFOSAA



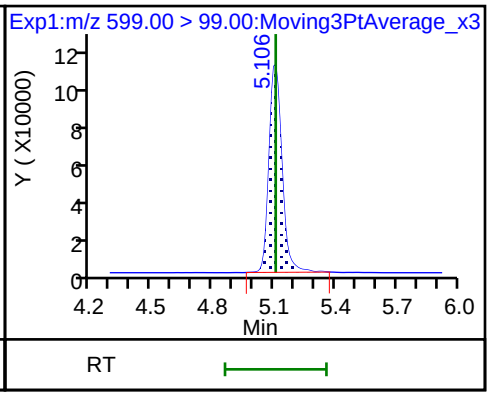
41 NMeFOSAA



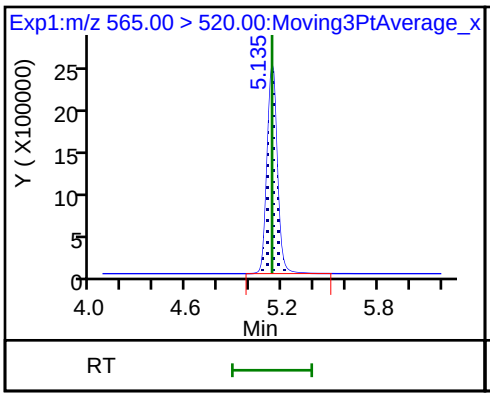
42 Perfluorodecanesulfonic acid



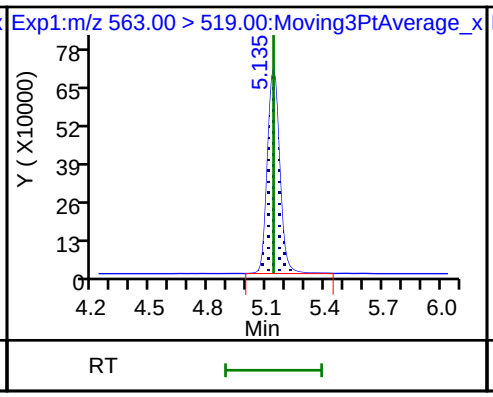
42 Perfluorodecanesulfonic acid



D 44 13C2 PFUnA



45 Perfluoroundecanoic acid



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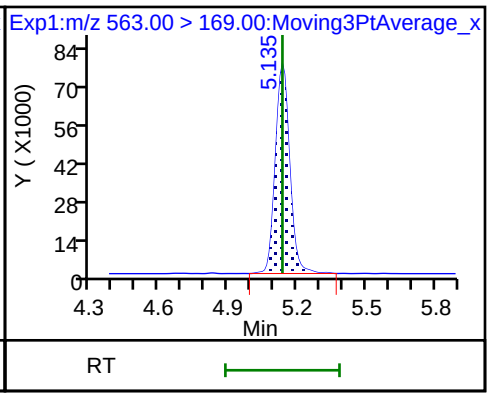
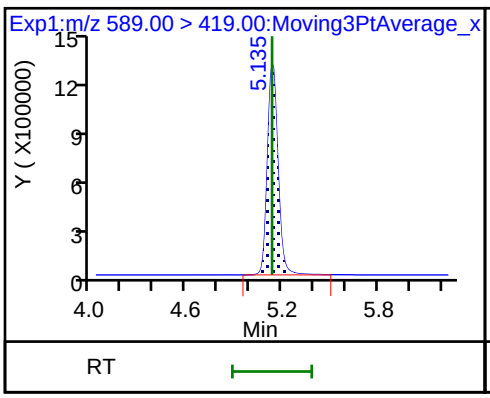
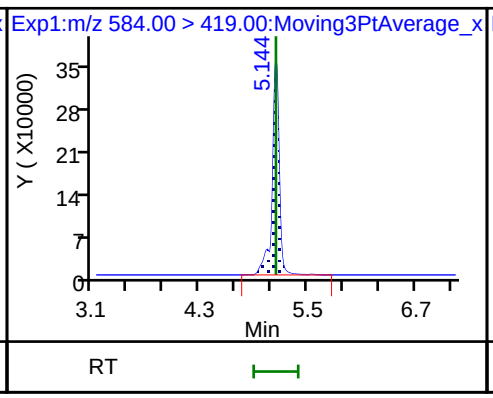


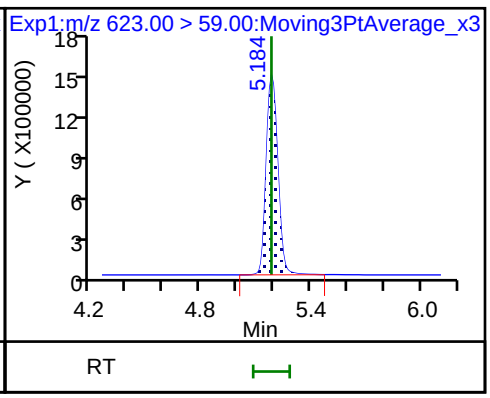
D 46 d5-NEtFOSAA



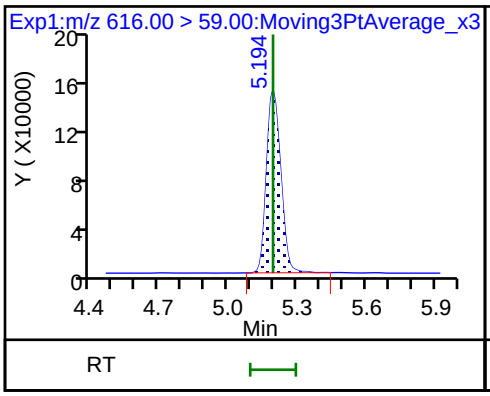
48 NEtFOSA



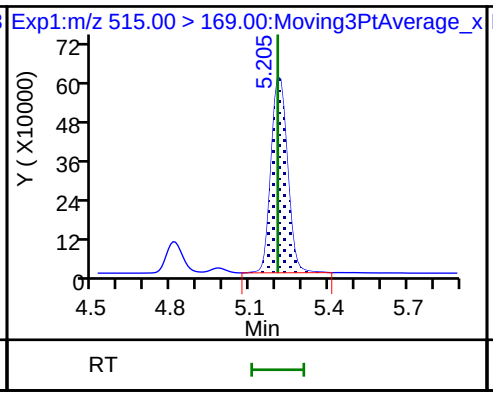
D 43 d7-N-MeFOSE-M



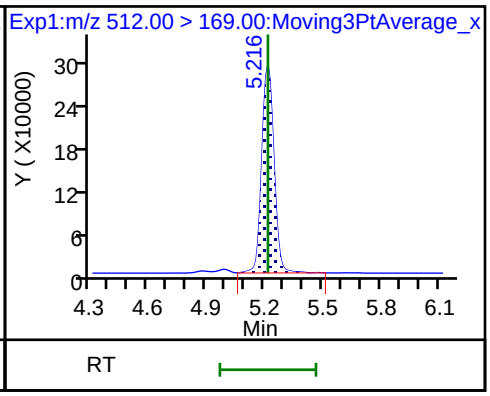
47 N-MeFOSE-M



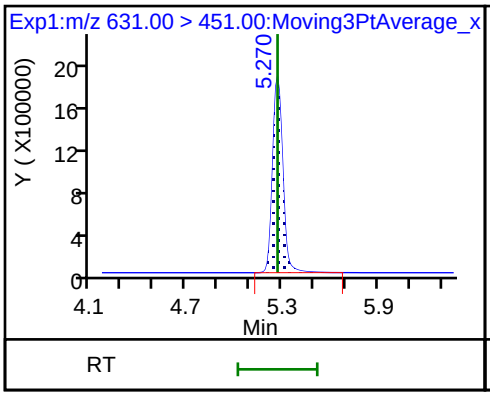
D 49 d-N-MeFOSA-M



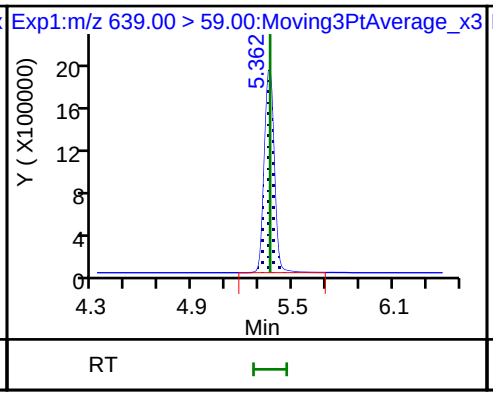
50 NMeFOSA



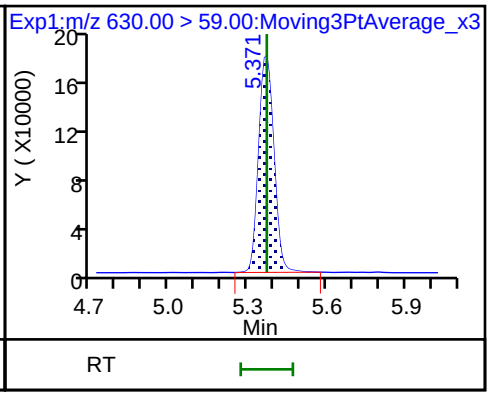
51 11ClFOS



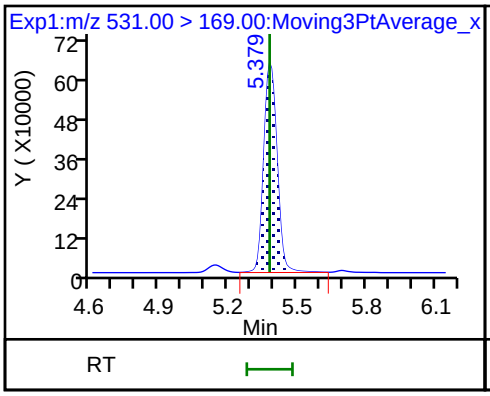
D 52 d9-N-EtFOSE-M



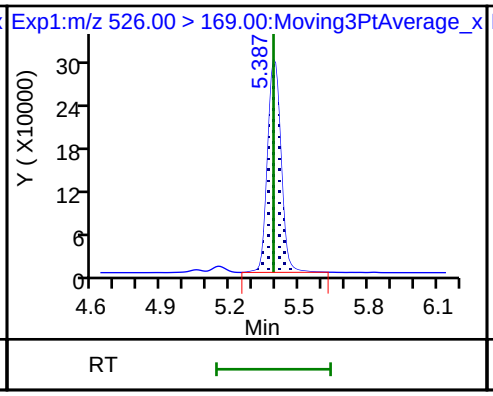
53 N-EtFOSE-M



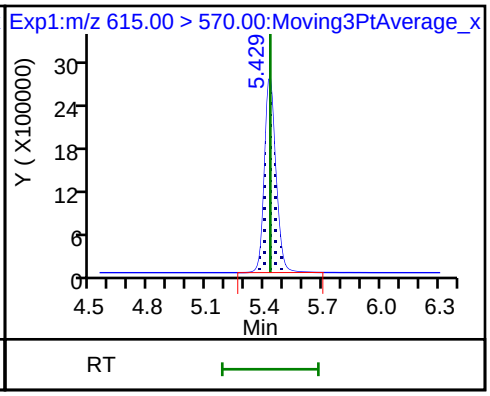
D 54 d-N-EtFOSA-M



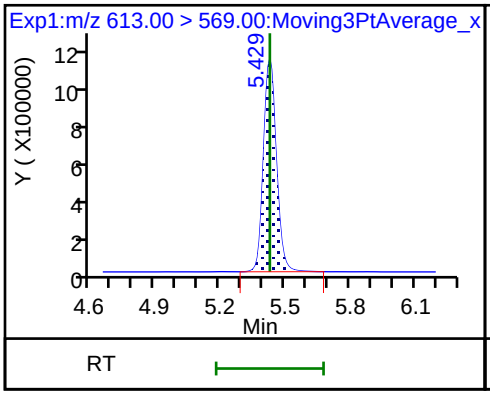
55 N-EtFOSA-M



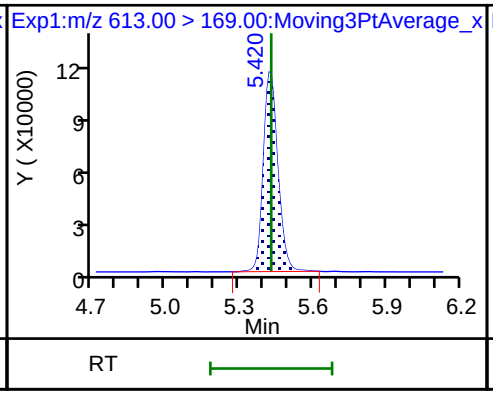
D 56 13C2 PFDoA



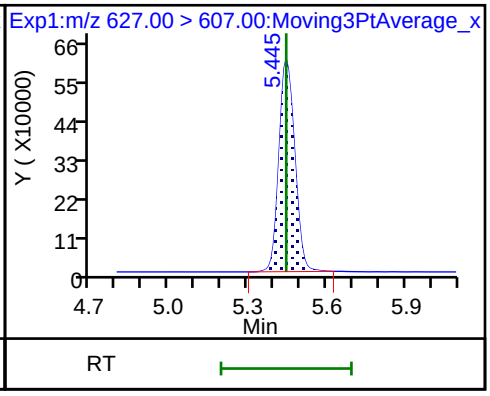
57 Perfluorododecanoic acid



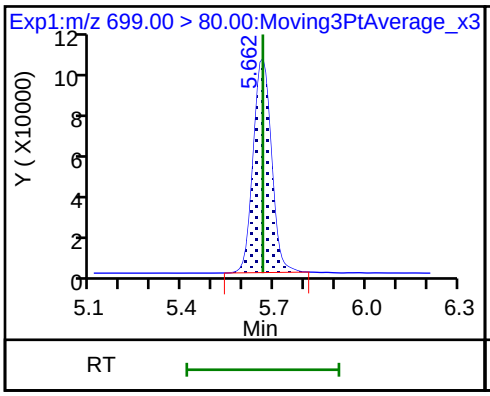
57 Perfluorododecanoic acid



58 10:2 FTS



59 PFDoS



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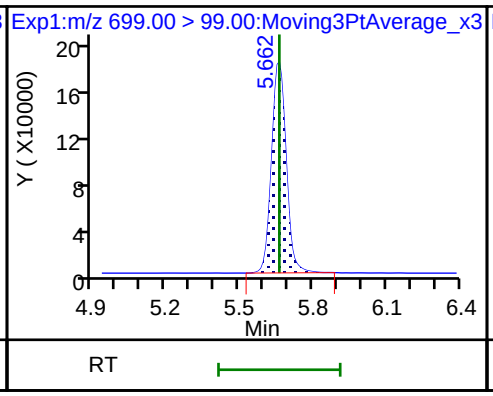
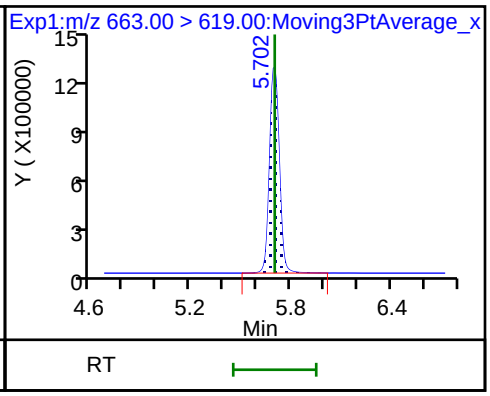
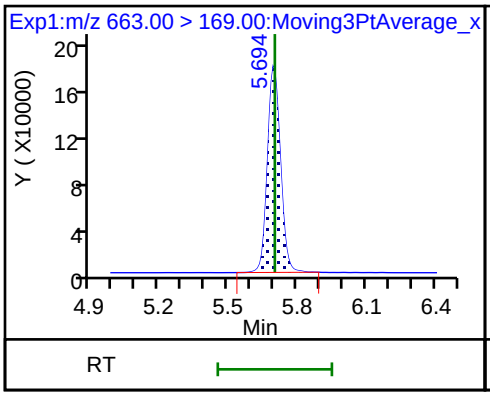


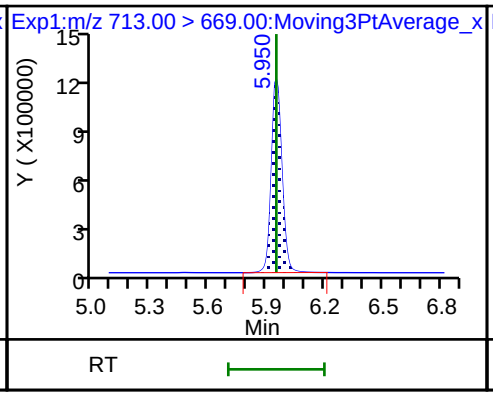
60 Perfluorotridecanoic acid



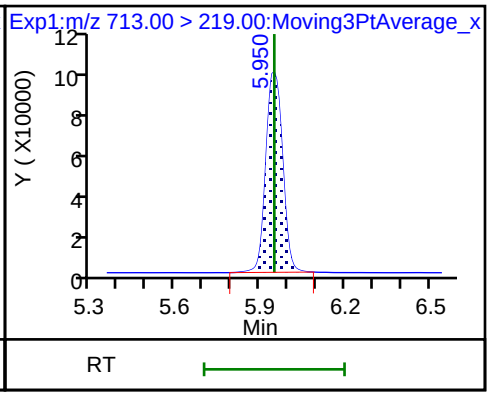
60 Perfluorotridecanoic acid



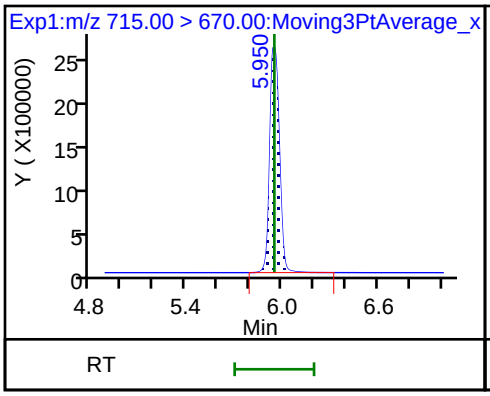
62 Perfluorotetradecanoic acid



62 Perfluorotetradecanoic acid



D 61 13C2 PFTeDA



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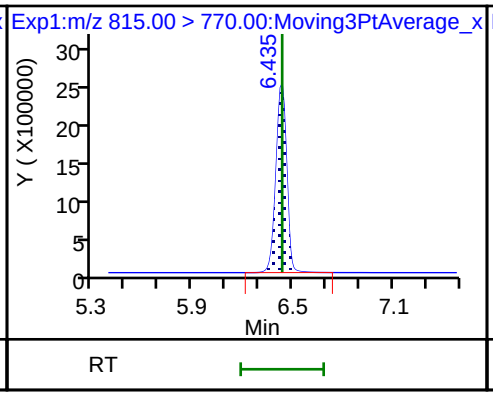
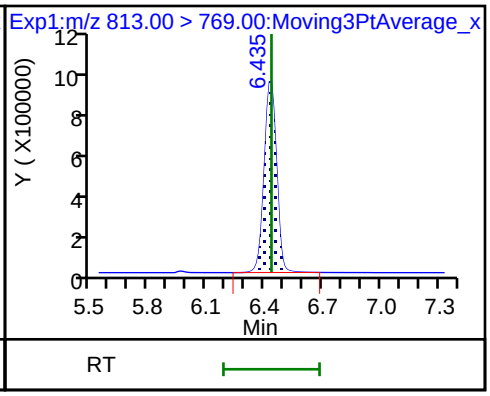
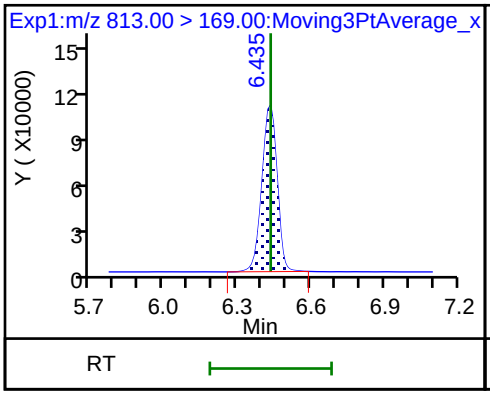


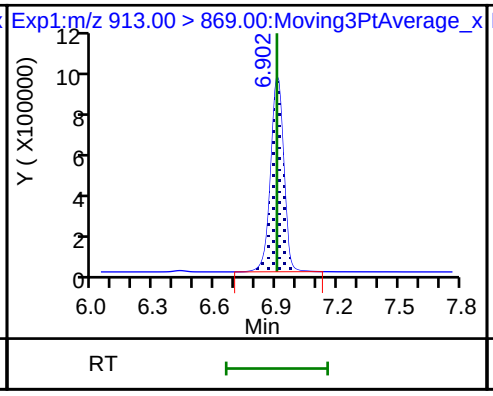
63 Perfluorohexadecanoic acid



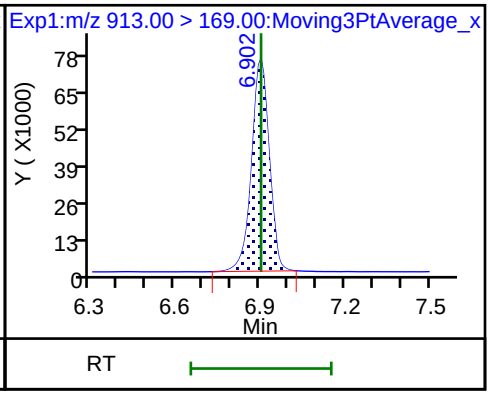
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

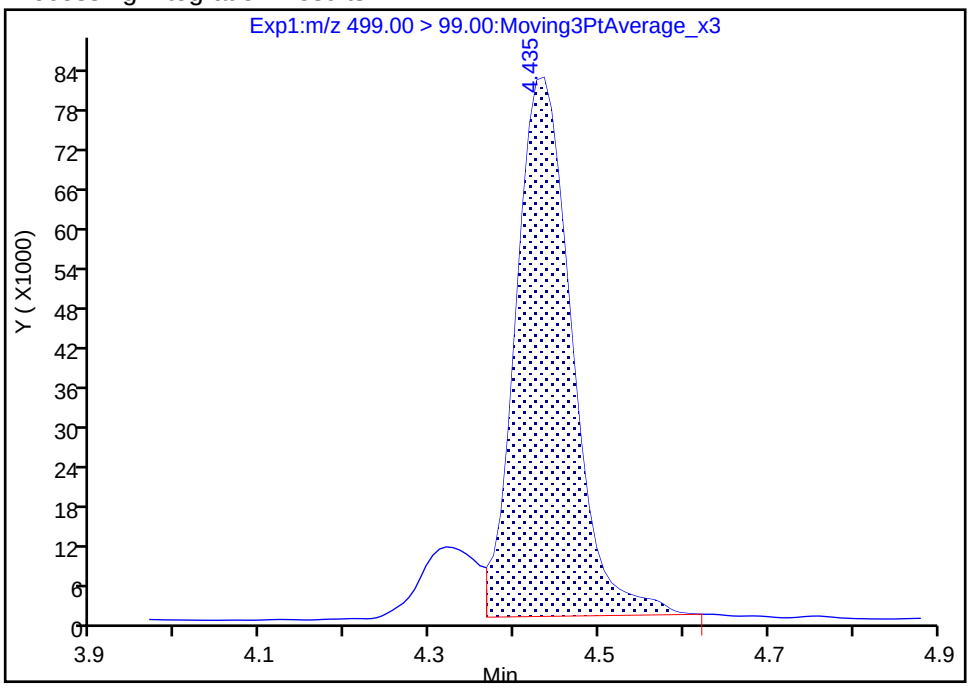
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_006.d
Injection Date: 10-Sep-2020 10:55:32 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

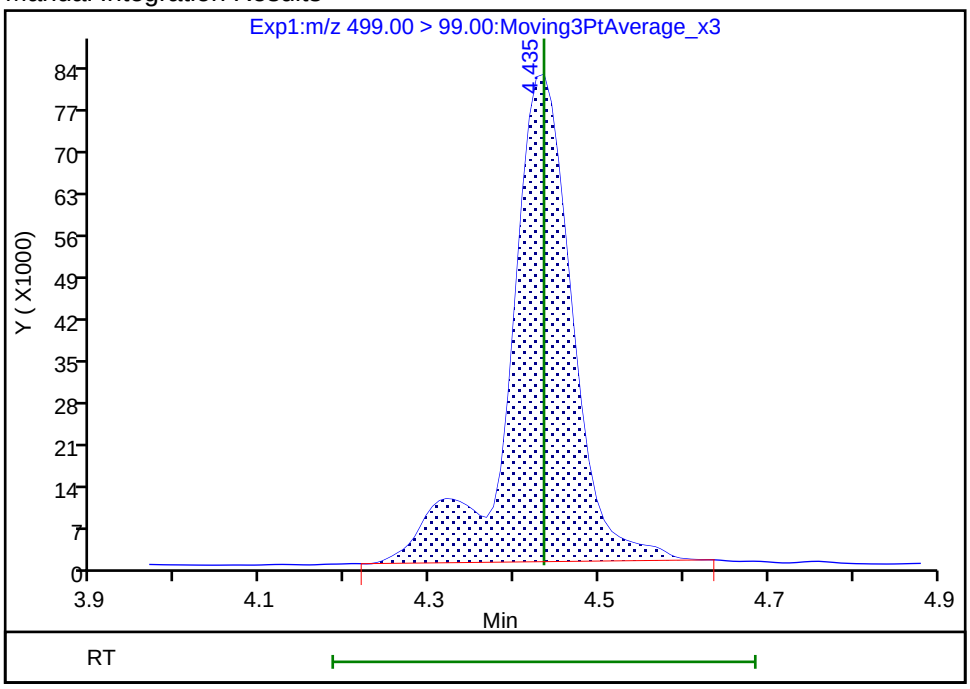
Processing Integration Results

RT: 4.43
Area: 376662
Amount: 1.020870
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 427482
Amount: 1.020870
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:17:49
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-411143/1 Calibration Date: 09/10/2020 17:58

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_058.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.7433	0.8216		1.11	1.00	10.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.028	1.047		1.02	1.00	1.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9776	1.089		0.985	0.884	11.4	50.0
4:2 FTS	AveID	3.243	3.725		1.07	0.934	14.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9294	1.064		1.14	1.00	14.4	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7896	0.8278		0.983	0.938	4.8	50.0
HFPO-DA (GenX)	AveID	0.2972	0.3176		1.07	1.00	6.9	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.078		1.07	1.00	6.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.112	1.109		0.907	0.910	-0.3	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.136	5.873		1.08	0.942	14.3	50.0
6:2 FTS	AveID	2.407	2.458		0.968	0.948	2.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.139	1.232		1.03	0.952	8.1	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.023	1.051		1.03	1.00	2.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.038	1.117		0.999	0.928	7.6	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9494	1.017		1.07	1.00	7.1	40.0
F-53B Major	AveID	2.501	2.788		1.04	0.932	11.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9383	0.9946		1.06	1.00	6.0	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7747	0.8310		1.03	0.960	7.3	50.0
8:2 FTS	AveID	2.472	2.867		1.11	0.958	16.0	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.8964	0.9091		1.01	1.00	1.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8055	0.8324		1.03	1.00	3.3	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6588	0.7119		1.04	0.964	8.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6615	0.6563		0.993	1.00	-0.8	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7741	0.7982		1.03	1.00	3.1	40.0
NMeFOSE	AveID	1.065	1.218		1.14	1.00	14.4	40.0
NMeFOSA	AveID	0.9832	1.067		1.09	1.00	8.5	50.0
F-53B Minor	AveID	4.317	5.085		1.11	0.942	17.8	50.0
NEtFOSE	AveID	1.035	1.084		1.05	1.00	4.7	40.0
NEtFOSA	AveID	1.062	1.160		1.09	1.00	9.2	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9122	0.9728		1.07	1.01	6.6	40.0
10:2 FTS	AveID	1.632	1.864		1.10	0.964	14.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2572	0.2536		0.954	0.968	-1.4	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-411143/1 Calibration Date: 09/10/2020 17:58

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_058.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	1.098		1.17	1.00	17.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.9843	0.9797		0.996	1.00	-0.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.053		1.08	1.00	8.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7306	0.8802		1.21	1.00	20.5	50.0
13C4 PFBA	Ave	0.8499	0.9181		2.70	2.50	8.0	50.0
13C5 PFPeA	Ave	0.6625	0.6923		2.61	2.50	4.5	50.0
13C3 PFBS	Ave	0.8317	0.9375		2.62	2.33	12.7	50.0
M2-4:2 FTS	Ave	0.2037	0.2127		2.44	2.34	4.4	50.0
13C2 PFHxA	Ave	0.8183	0.8542		2.61	2.50	4.4	50.0
13C3 HFPO-DA	Ave	0.5866	0.6027		2.57	2.50	2.7	50.0
13C4 PFHpA	Ave	0.8058	0.8662		2.69	2.50	7.5	50.0
18O2 PFHxS	Ave	0.5449	0.5890		2.56	2.37	8.1	50.0
M2-6:2 FTS	Ave	0.2349	0.2411		2.44	2.38	2.7	50.0
13C4 PFOA	Ave	0.9849	1.000		2.54	2.50	1.6	50.0
13C4 PFOS	Ave	0.3888	0.4144		2.55	2.39	6.6	50.0
13C5 PFNA	Ave	0.9099	0.9243		2.54	2.50	1.6	50.0
13C8 FOSA	Ave	0.5585	0.5832		2.61	2.50	4.4	50.0
13C2 PFDA	Ave	1.102	1.104		2.51	2.50	0.2	50.0
M2-8:2 FTS	Ave	0.3107	0.3118		2.40	2.40	0.4	50.0
d3-NMeFOSAA	Ave	0.5682	0.5771		2.54	2.50	1.6	50.0
13C2 PFUnA	Ave	1.078	1.138		2.64	2.50	5.5	50.0
d5-NEtFOSAA	Ave	0.5501	0.5827		2.65	2.50	5.9	50.0
d7-N-MeFOSE-M	Ave	0.1398	0.1166		10.4	12.5	-16.5	50.0
d-N-MeFOSA-M	Ave	0.2628	0.2726		2.59	2.50	3.7	50.0
d9-N-EtFOSE-M	Ave	0.1640	0.1510		11.5	12.5	-7.9	50.0
d-N-EtFOSA-M	Ave	0.2510	0.2478		2.47	2.50	-1.3	50.0
13C2 PFDoA	Ave	1.160	1.065		2.29	2.50	-8.2	50.0
13C2 PFTeDA	Ave	1.146	1.022		2.23	2.50	-10.9	50.0
13C2 PFHxDA	Ave	1.193	1.049		2.20	2.50	-12.1	50.0
13C8 PFOA	Ave	0.8908	0.8681		2.39	2.45	-2.5	50.0
13C8 PFOS	Ave	0.2076	0.2192		2.52	2.39	5.6	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 10-Sep-2020 17:58:31 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:47:02 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 08:47:02
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.609	9162946	2.70		108	12957	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.482	-0.007	1.003	3011406	1.11		111	439	
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.867	-0.001	0.708	6909420	2.61		105	12587	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.866	2.867	-0.001	1.000	2893971	1.02		102	147	
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.716	8700836	2.62		113	15518	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.901	2.913	-0.012	1.000	3602378	0.9846	Target=2.18	111	3347	
298.90 > 99.00	2.901	2.913	-0.012	1.000	1570606		2.29(1.09-3.26)		379	
7 4:2 FTS										
327.00 > 307.00	3.204	3.215	-0.011	1.000	2954311	1.07		115	2968	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.204	3.215	-0.011	0.791	1982910	2.44		104	1183	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.247	3.258	-0.011	1.000	3626839	1.14	Target=11.68	114	127	
313.00 > 119.00	3.247	3.258	-0.011	1.000	268198		13.52(5.84-17.52)		77.9	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.802	8525171	2.61		104	6773	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.268	3.279	-0.011	1.126	2905724	0.9834	Target=2.56	105	375	
349.00 > 99.00	3.268	3.279	-0.011	1.126	1189796		2.44(1.28-3.84)		452	
12 HPFO-DA										
285.00 > 169.00	3.371	3.380	-0.009	1.000	764203	1.07		107	1365	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.371	3.380	-0.009	0.832	6015223	2.57		103	7252	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	5560720	2.56		108	1323	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.655	3.665	-0.010	1.000	3727616	1.07	Target=3.85	107	299	
363.00 > 169.00	3.655	3.665	-0.010	1.000	964153		3.87(1.92-5.77)		316	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	2371813	0.9069	Target=3.25	99.7	304	
399.00 > 99.00	3.655	3.665	-0.010	1.000	770354		3.08(1.62-4.87)		252	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	8644864	2.69		107	4758	
19 DONA										
377.00 > 251.00	3.704	3.713	-0.009	0.840	9150878	1.08	Target=2.76	114	5689	
377.00 > 85.00	3.704	3.713	-0.009	0.840	3312037		2.76(1.38-4.14)		2749	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.026	4.042	-0.016	0.994	2285999	2.44		103	2888	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	1.000	2243024	0.9683		102	670	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.042	4.051	-0.009	0.917	1939402	1.03	Target=4.29	108	976	
449.00 > 99.00	4.042	4.051	-0.009	0.917	461654		4.20(2.15-6.44)		268	
$ 23 13C8 PFOA										
421.00 > 376.00	4.042	4.051	-0.009	0.998	8481638	2.39		97.5	5503	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.000	9983996	2.54		102	5474	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.051	4.059	-0.008	1.000	4200928	1.03	Target=2.95	103	585	
413.00 > 169.00	4.051	4.059	-0.008	1.000	1404240		2.99(1.47-4.42)		847	
* 25 13C2 PFOA										
415.00 > 370.00	4.051	4.059	-0.008		9979910	2.50			16990	
$ 27 13C8 PFOS										
507.00 > 99.00	4.408	4.416	-0.008	1.088	2091640	2.52		106	2216	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.416	4.425	-0.009	1.002	1715129	1.00	Target=4.28	108	260	
499.00 > 99.00	4.408	4.425	-0.017	1.000	415556		4.13(2.14-6.41)		313	M
D 29 13C4 PFOS										
503.00 > 80.00	4.408	4.425	-0.017	1.088	3953490	2.55		107	8327	
30 Perfluorononanoic acid										
463.00 > 419.00	4.425	4.433	-0.008	0.998	3760808	1.07	Target=8.00	107	856	
463.00 > 169.00	4.425	4.433	-0.008	0.998	488303		7.70(4.00-12.01)		642	
D 31 13C5 PFNA										
468.00 > 423.00	4.433	4.442	-0.009	1.094	9224451	2.54		102	19957	
32 9ClFOS										
531.00 > 351.00	4.614	4.620	-0.006	1.047	4297755	1.04		111	9349	
D 34 13C8 FOSA										
506.00 > 78.00	4.732	4.740	-0.008	1.168	5820407	2.61		104	5046	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.732	4.740	-0.008	1.000	2315616	1.06		106	1768	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.758	4.766	-0.008	1.079	1319643	1.03	Target=2.15	107	1611	
549.00 > 99.00	4.758	4.766	-0.008	1.079	650810		2.03(1.08-3.23)		783	
D 37 13C2 PFDA										
515.00 > 470.00	4.784	4.793	-0.009	1.181	11022443	2.51		100	8039	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.784	4.793	-0.009	1.000	4008209	1.01	Target=10.44	101	1167	
513.00 > 169.00	4.784	4.793	-0.009	1.000	385225		10.40(5.22-15.65)		290	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.784	4.802	-0.018	1.181	2981276	2.40		100	3784	
39 8:2 FTS										
527.00 > 507.00	4.784	4.802	-0.018	1.000	3419040	1.11		116	3191	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.949	4.959	-0.010	1.222	5759158	2.54		102	4877	
41 NMeFOSAA										
570.00 > 419.00	4.949	4.959	-0.010	1.000	1917559	1.03		103	347	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.074	5.084	-0.010	1.151	1135263	1.04	Target=2.36	108	2747	
599.00 > 99.00	5.074	5.084	-0.010	1.151	482856		2.35(1.18-3.54)		724	
D 44 13C2 PFUnA										
565.00 > 520.00	5.103	5.113	-0.010	1.260	11354884	2.64		106	6363	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.103	5.113	-0.010	1.000	2983937	0.99	Target=8.67	99.2	1327	
563.00 > 169.00	5.103	5.113	-0.010	1.000	359106		8.31(4.34-13.01)		949	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.113	5.123	-0.010	1.262	5815324	2.65		106	2304	
48 NEtFOSA										
584.00 > 419.00	5.113	5.132	-0.019	1.000	1856725	1.03		103	6128	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.180	5.190	-0.010	1.279	5820748	10.4		83.5	3667	
47 N-MeFOSE-M										
616.00 > 59.00	5.200	5.200	0.0	1.004	567321	1.14		114	559	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.212	5.212	0.0	1.287	2720748	2.59		104	39.2	
50 NMeFOSA										
512.00 > 169.00	5.212	5.223	-0.011	1.000	1160900	1.08		108	233	
51 11ClFOS										
631.00 > 451.00	5.244	5.255	-0.011	1.190	7924073	1.11		118	3954	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.350	5.359	-0.009	1.321	7537238	11.5		92.1	2888	
53 N-EtFOSE-M										
630.00 > 59.00	5.367	5.376	-0.009	1.003	653504	1.05		105	803	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.376	5.385	-0.009	1.327	2472880	2.47		98.7	194	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.384	5.393	-0.009	1.002	1147034	1.09		109	194	
D 56 13C2 PFDoA										
615.00 > 570.00	5.401	5.409	-0.008	1.333	10627217	2.29		91.8	5359	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.393	5.409	-0.016	0.998	4159881	1.07	Target=9.05	107	1829	
613.00 > 169.00	5.401	5.409	-0.008	1.000	462439		9.00(4.52-13.57)		1000	
58 10:2 FTS										
627.00 > 607.00	5.418	5.426	-0.008	1.132	2236272	1.10		114	2306	
59 PFDoS										
699.00 > 80.00	5.633	5.642	-0.009	1.278	406040	0.9543	Target=0.57	98.6	1198	
699.00 > 99.00	5.633	5.642	-0.009	1.278	745458		0.54(0.29-0.86)		1235	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.668	5.676	-0.008	1.049	4667143	1.17	Target=7.06	117	2641	
663.00 > 169.00	5.668	5.676	-0.008	1.049	670095		6.96(3.53-10.59)		1259	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.909	5.920	-0.011	1.459	10195416	2.23		89.1	11627	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.909	5.920	-0.011	1.000	3999237	1.00	Target=11.23	99.5	2104	
713.00 > 219.00	5.909	5.920	-0.011	1.000	387870		10.31(5.62-16.85)		1855	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.382	6.393	-0.011	1.000	4410773	1.08	Target=9.45	108	2675	
813.00 > 169.00	6.382	6.393	-0.011	1.000	443939		9.94(4.72-14.17)		1344	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.382	6.393	-0.011	1.576	10468266	2.20		87.9	7192	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.834	6.842	-0.008	1.071	3685623	1.20	Target=11.13	120	1512	
913.00 > 169.00	6.825	6.842	-0.017	1.069	321200		11.47(5.56-16.69)		1139	

QC Flag Legend

Review Flags

M - Manually Integrated

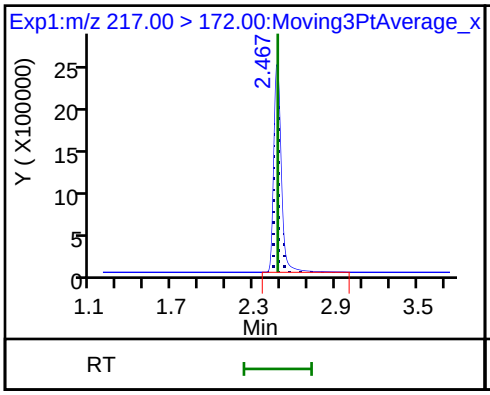
Reagents:

LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

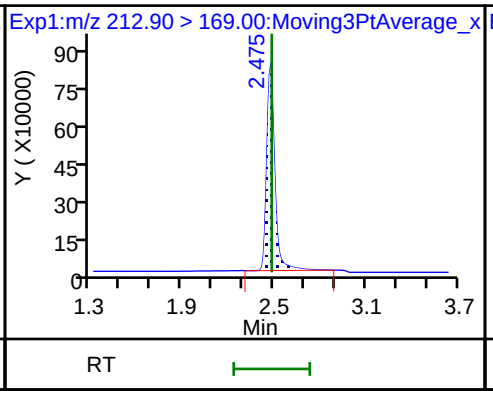
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d
Injection Date: 10-Sep-2020 17:58:31 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL

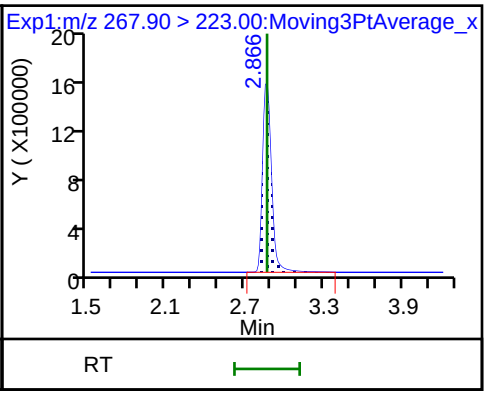
D 1 13C4 PFBA



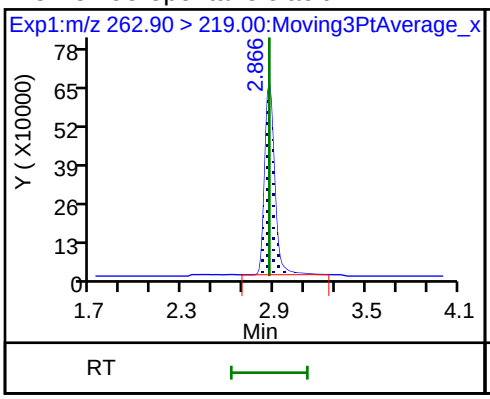
2 Perfluorobutanoic acid



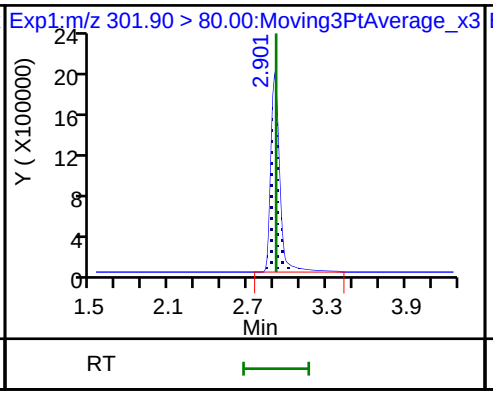
D 4 13C5 PFPeA



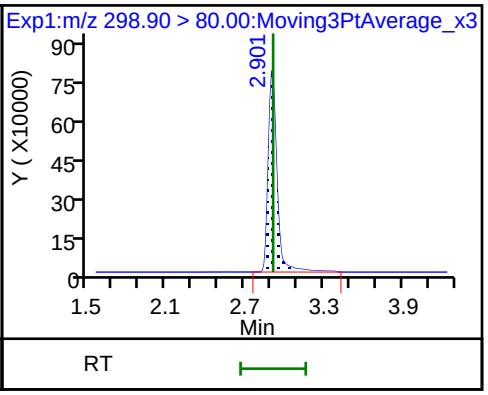
5 Perfluoropentanoic acid



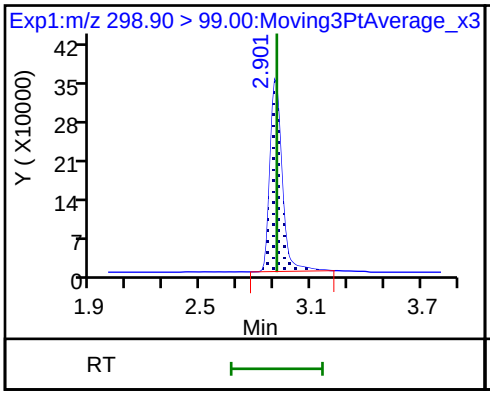
D 14 13C3 PFBS



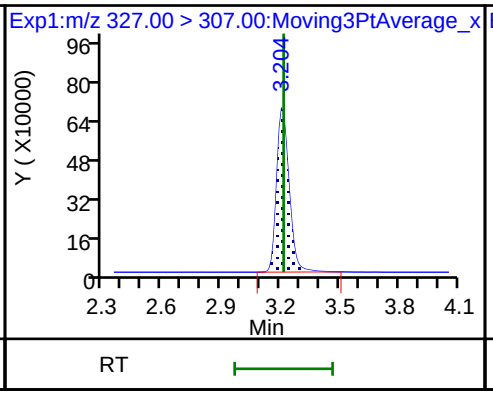
6 Perfluorobutanesulfonic acid



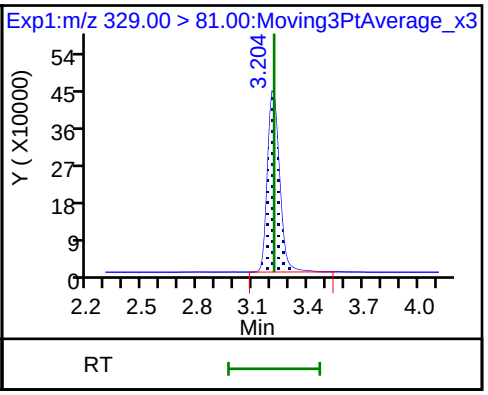
6 Perfluorobutanesulfonic acid



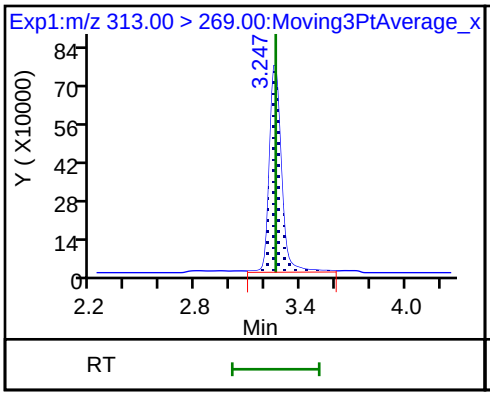
7 4:2 FTS



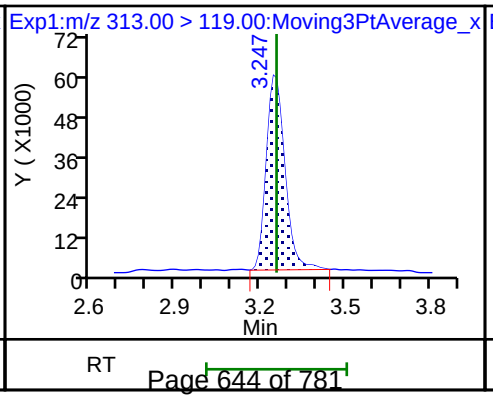
D 8 M2-4:2 FTS



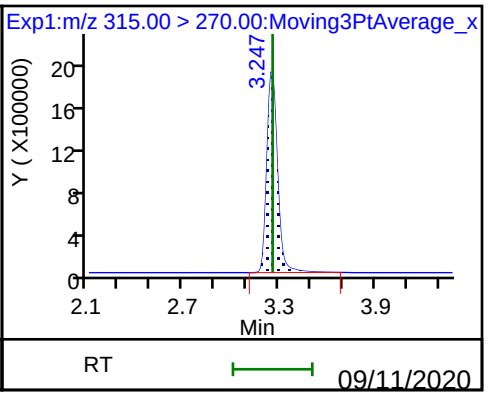
10 Perfluorohexanoic acid



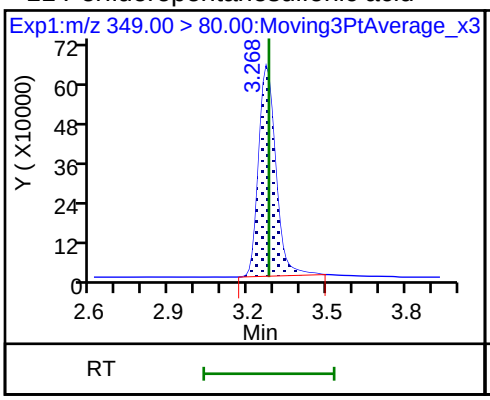
10 Perfluorohexanoic acid



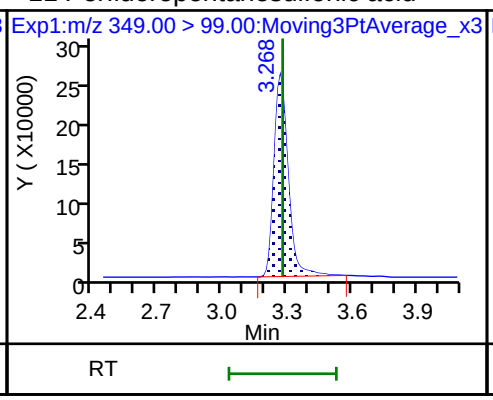
D 9 13C2 PFHxA



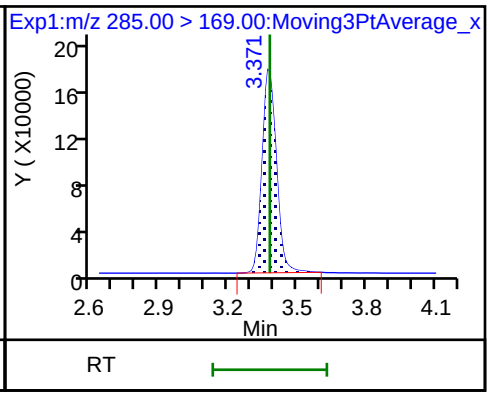
11 Perfluoropentanesulfonic acid



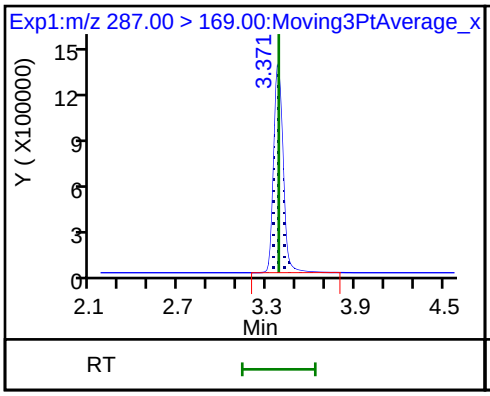
11 Perfluoropentanesulfonic acid



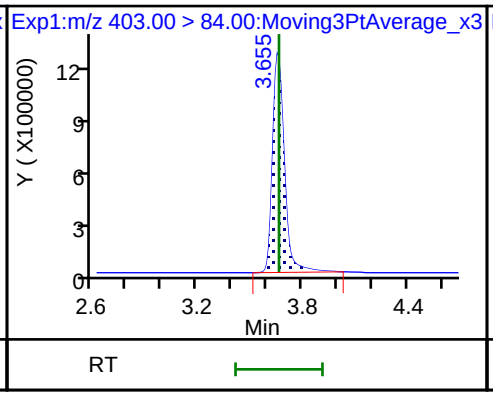
12 HPFO-DA



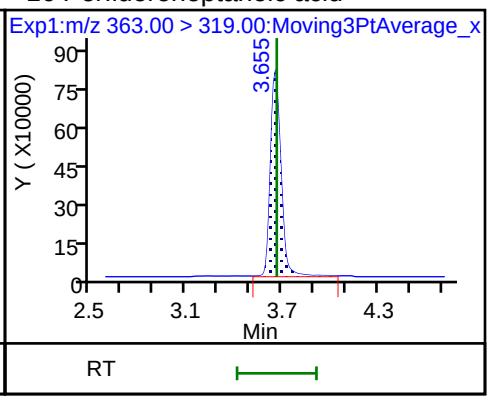
D 13 13C3 HFPO-DA



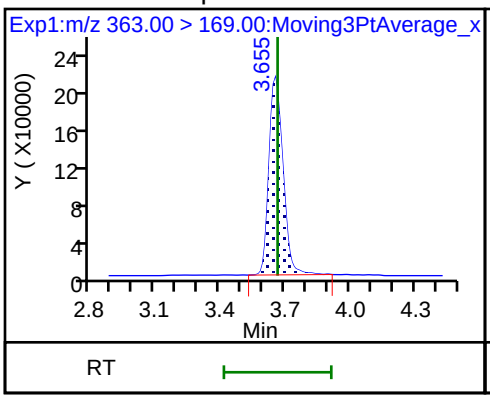
D 17 18O2 PFHxS



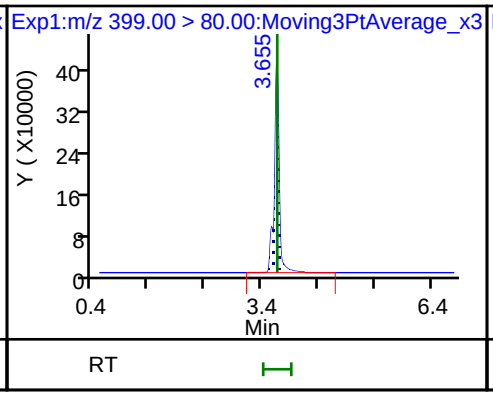
16 Perfluoroheptanoic acid



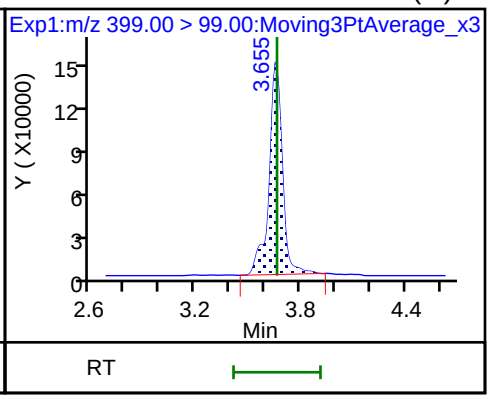
16 Perfluoroheptanoic acid



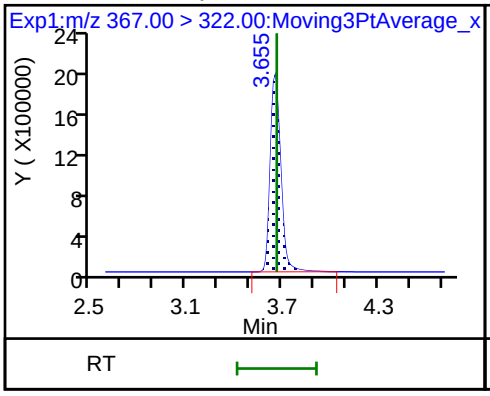
18 Perfluorohexanesulfonic acid



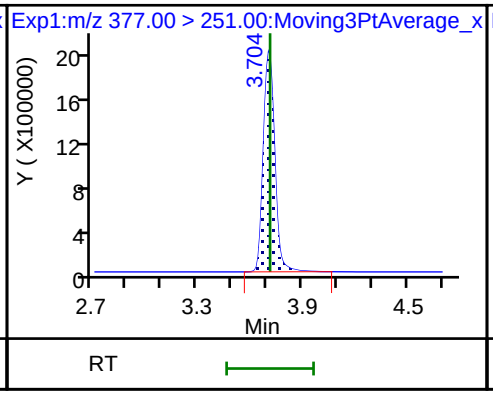
18 Perfluorohexanesulfonic acid (M)



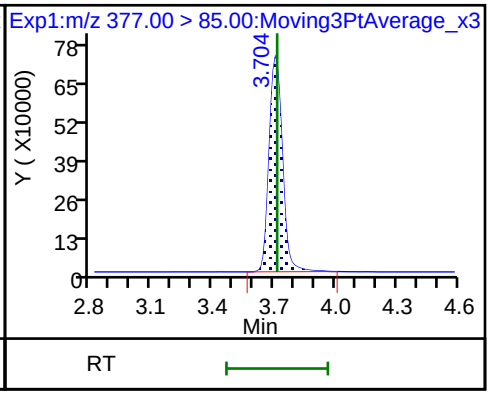
D 15 13C4 PFHpA



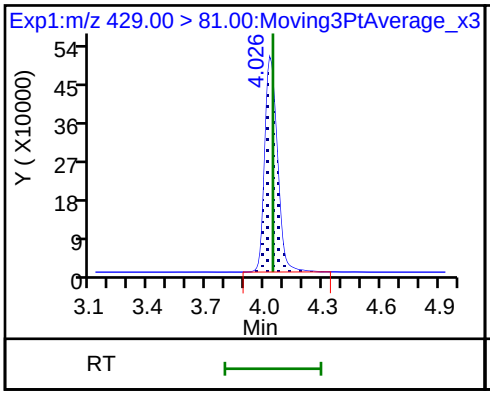
19 DONA



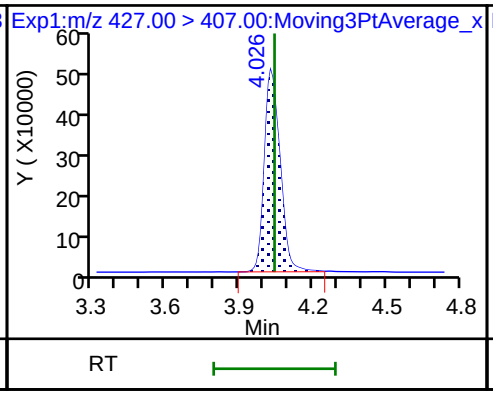
19 DONA



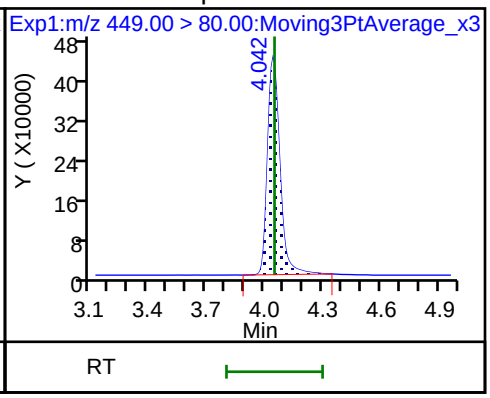
D 20 M2-6:2 FTS



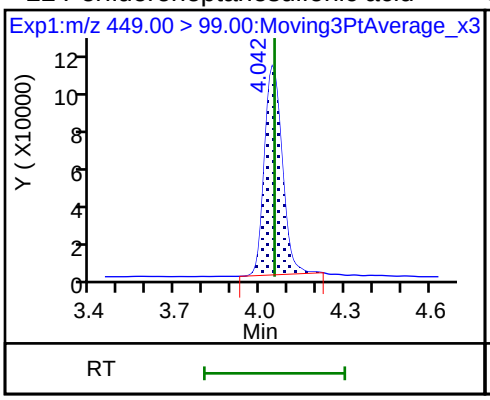
21 6:2 FTS



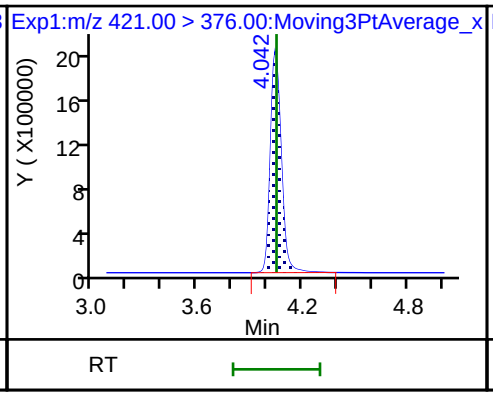
22 Perfluoroheptanesulfonic acid



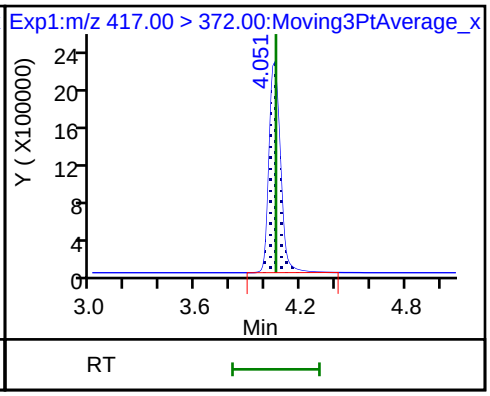
22 Perfluoroheptanesulfonic acid



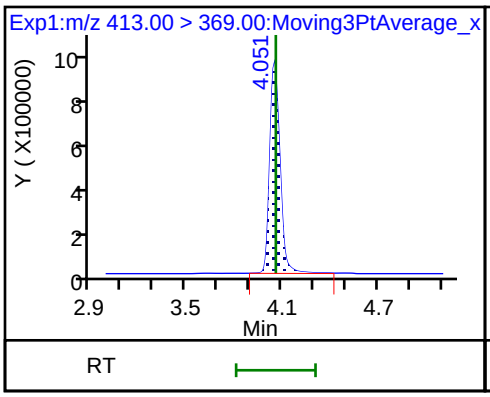
$ 23 13C8 PFOA



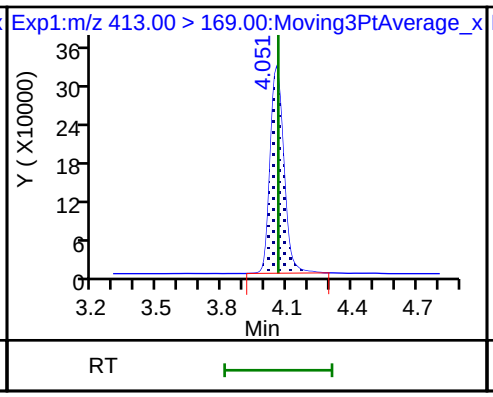
D 24 13C4 PFOA



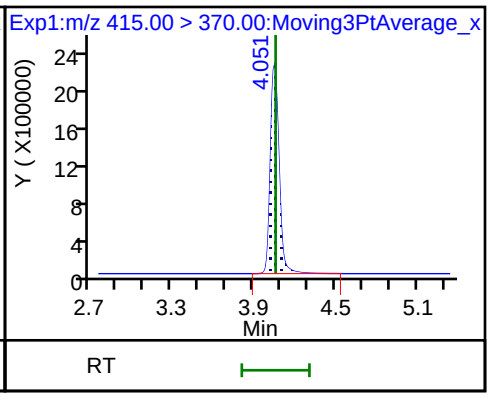
26 Perfluorooctanoic acid



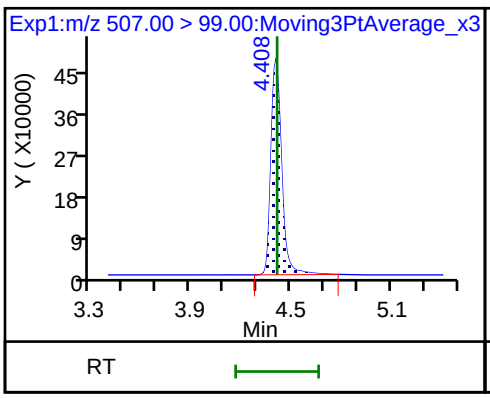
26 Perfluorooctanoic acid



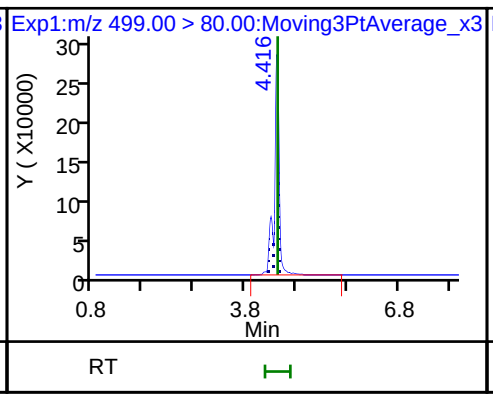
* 25 13C2 PFOA



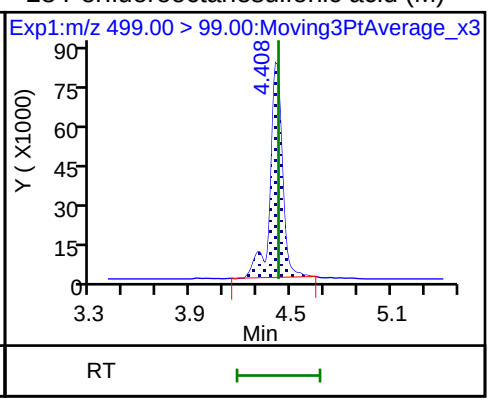
$ 27 13C8 PFOS



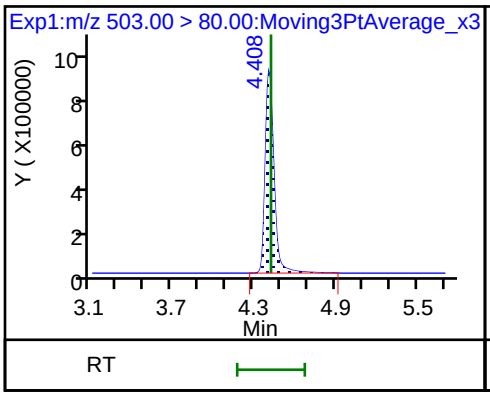
28 Perfluorooctanesulfonic acid



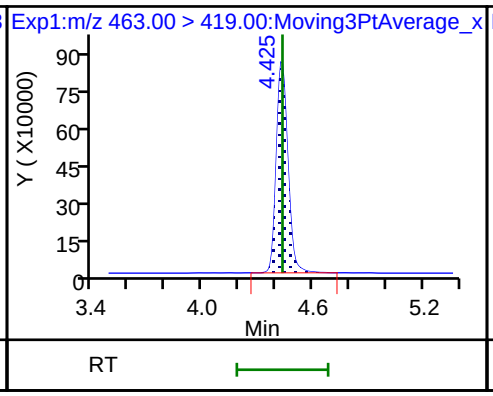
28 Perfluorooctanesulfonic acid (M)



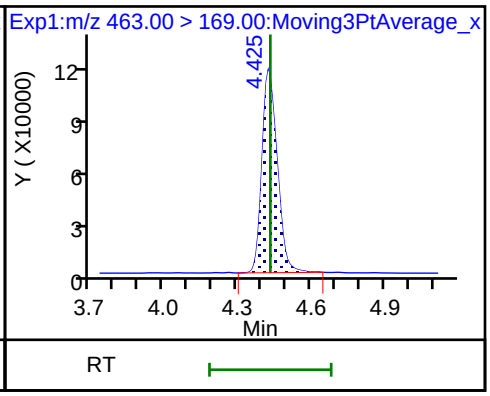
D 29 13C4 PFOS



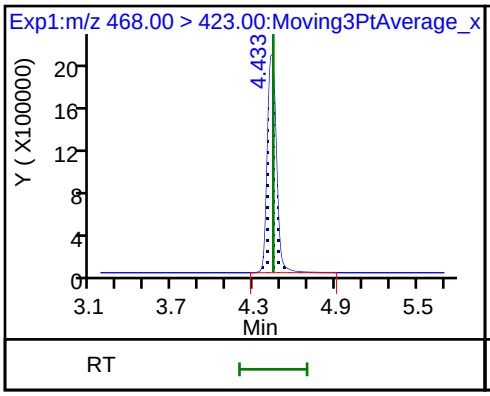
30 Perfluorononanoic acid



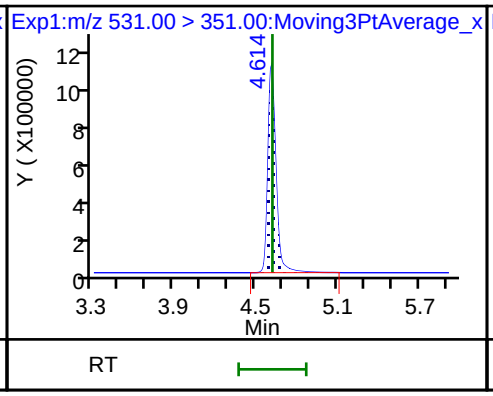
30 Perfluorononanoic acid



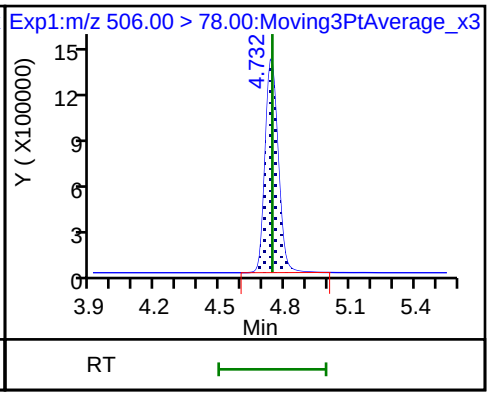
D 31 13C5 PFNA



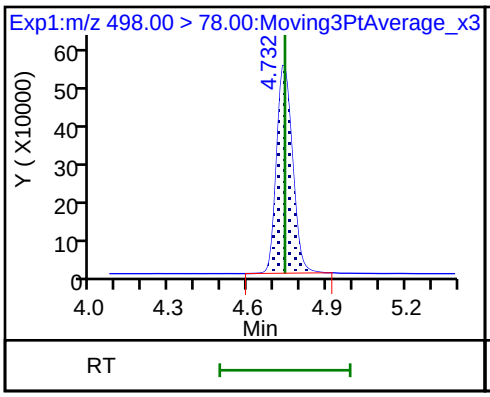
32 9ClFOS



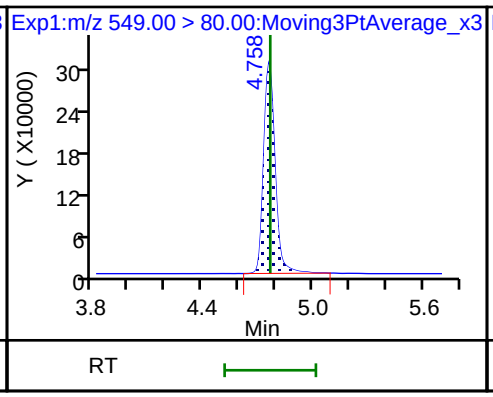
D 34 13C8 FOSA



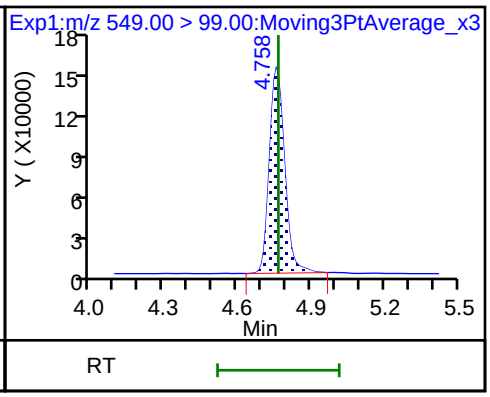
33 Perfluorooctanesulfonamide



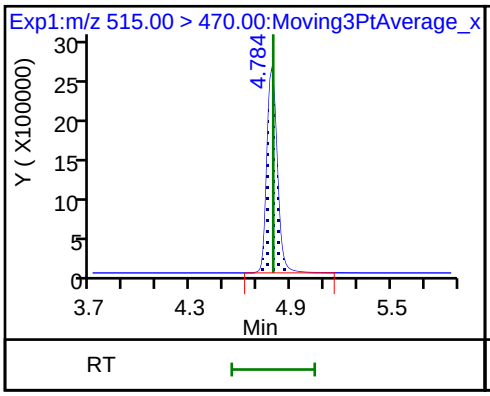
35 Perfluorononanesulfonic acid



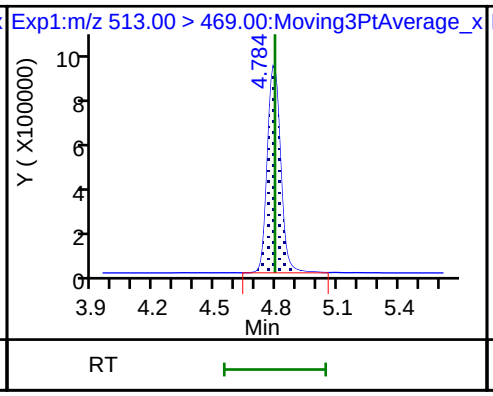
35 Perfluorononanesulfonic acid



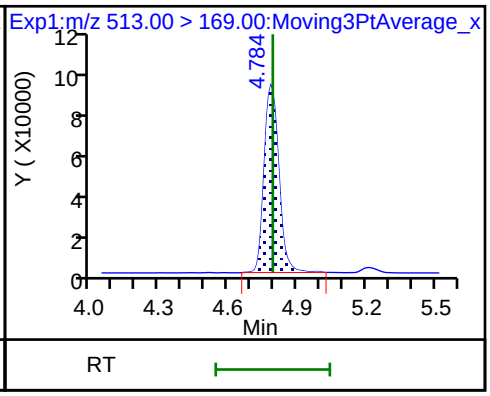
D 37 13C2 PFDA



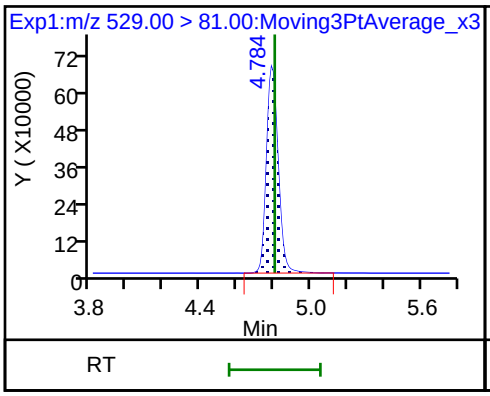
36 Perfluorodecanoic acid



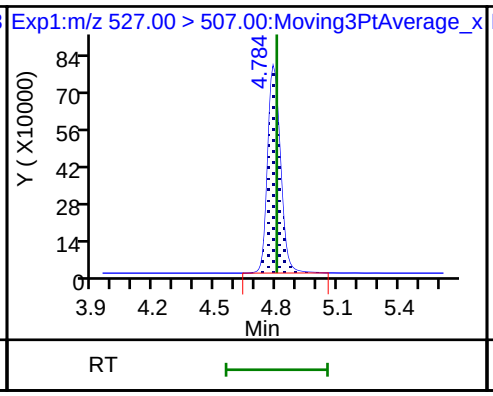
36 Perfluorodecanoic acid



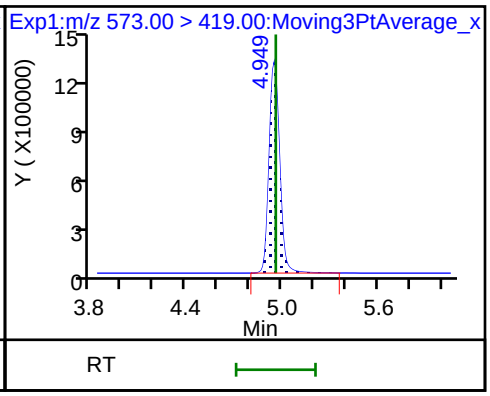
D 38 M2-8:2 FTS



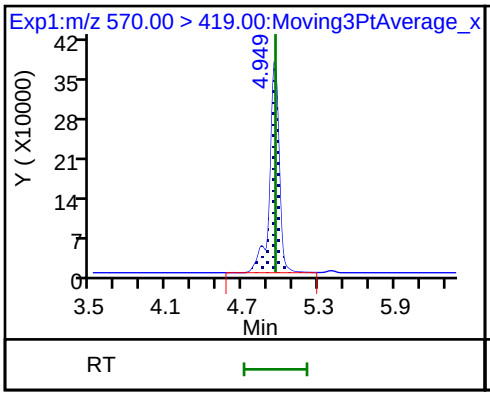
39 8:2 FTS



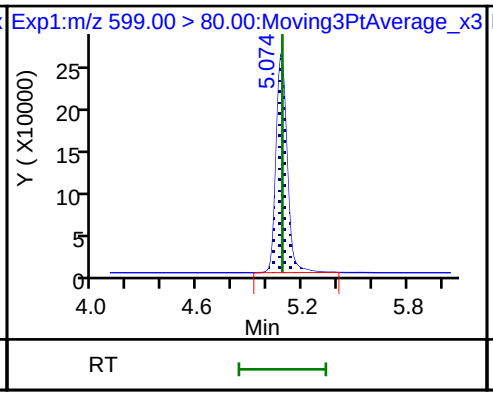
D 40 d3-NMeFOSAA



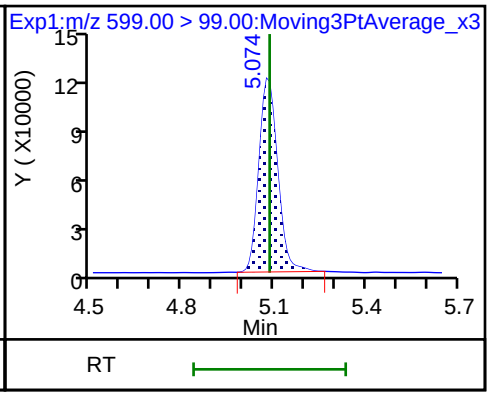
41 NMeFOSAA



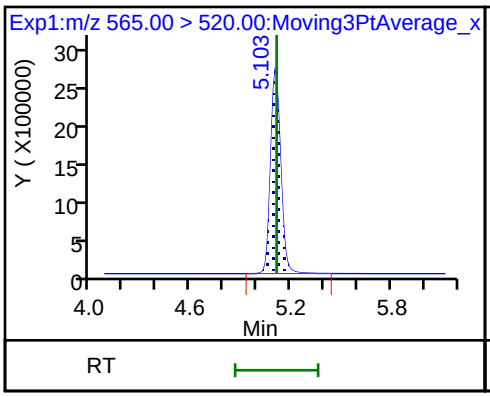
42 Perfluorodecanesulfonic acid



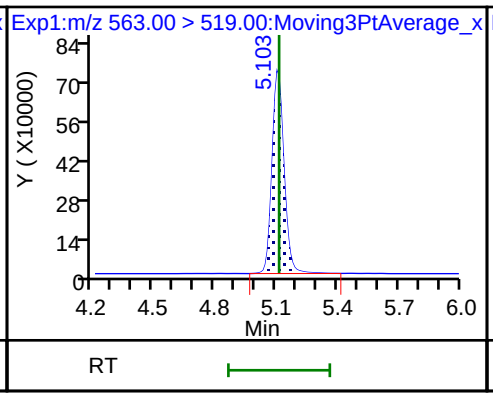
42 Perfluorodecanesulfonic acid



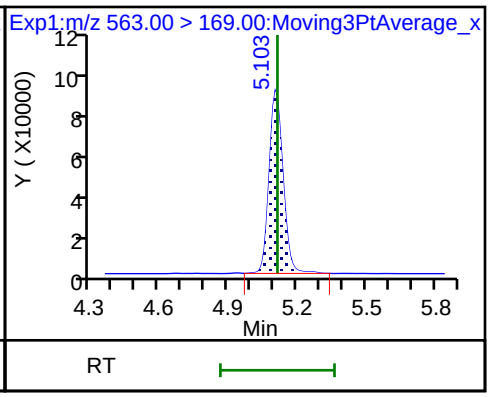
D 44 13C2 PFUnA



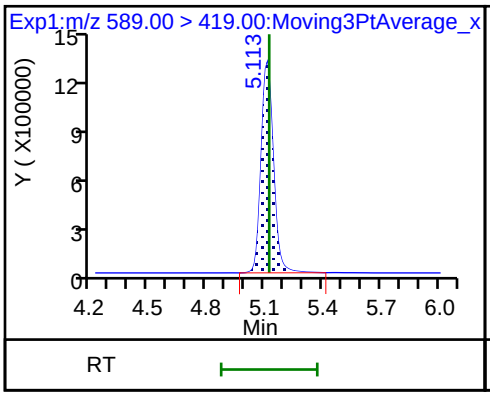
45 Perfluoroundecanoic acid



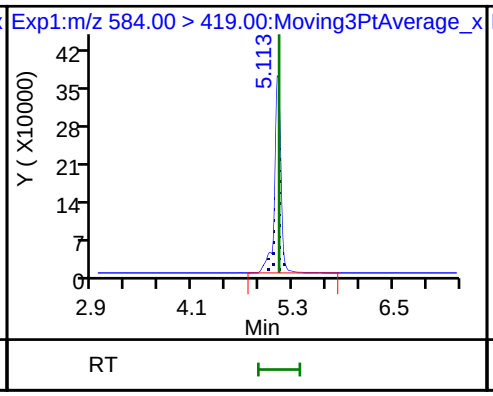
45 Perfluoroundecanoic acid



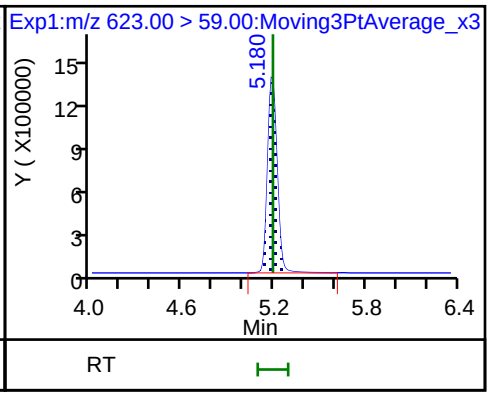
D 46 d5-NEtFOSAA



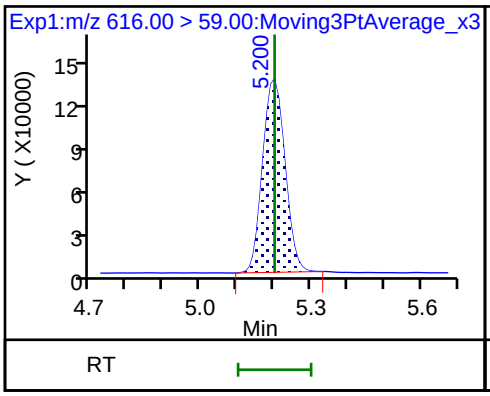
48 NEtFOSA



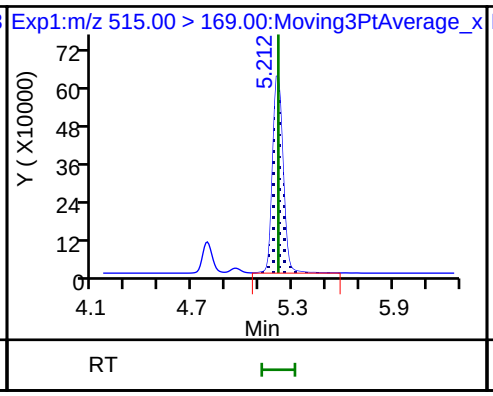
D 43 d7-N-MeFOSE-M



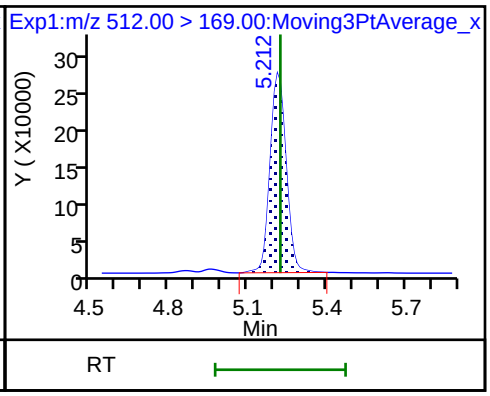
47 N-MeFOSE-M



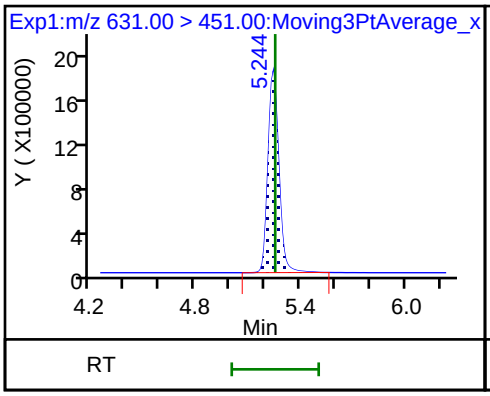
D 49 d-N-MeFOSA-M



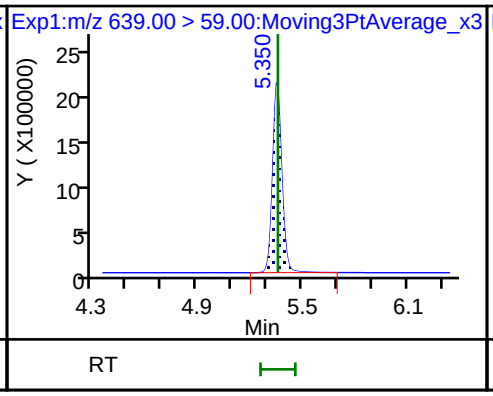
50 NMeFOSA



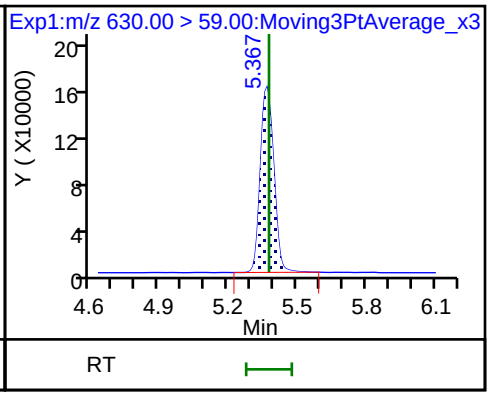
51 11ClFOS



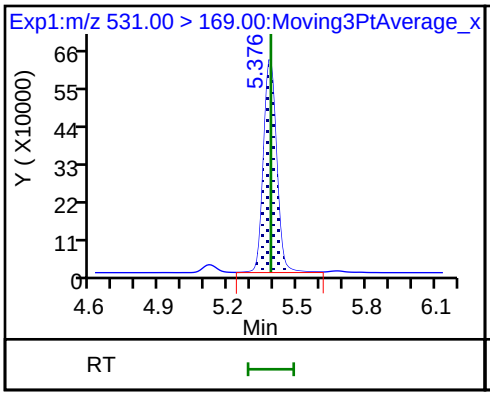
D 52 d9-N-EtFOSE-M



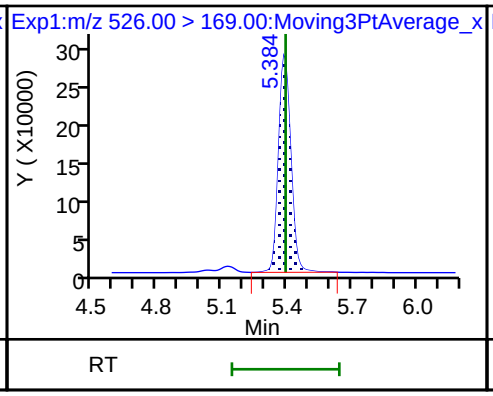
53 N-EtFOSE-M



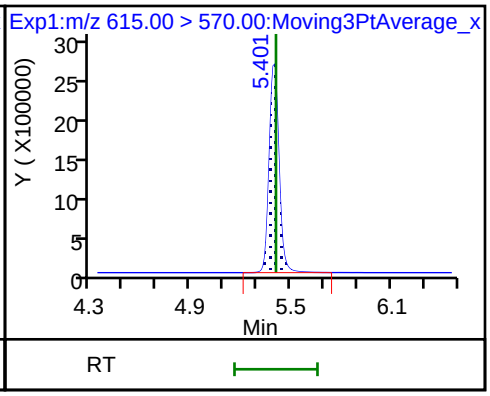
D 54 d-N-EtFOSA-M



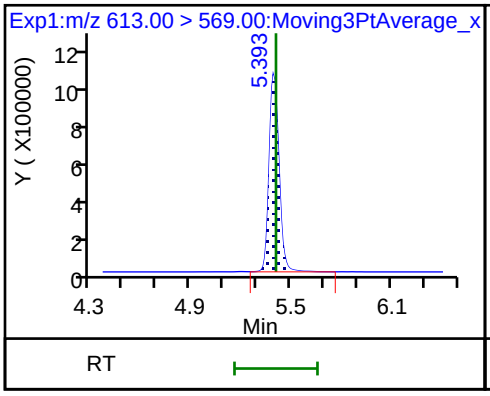
55 N-EtFOSA-M



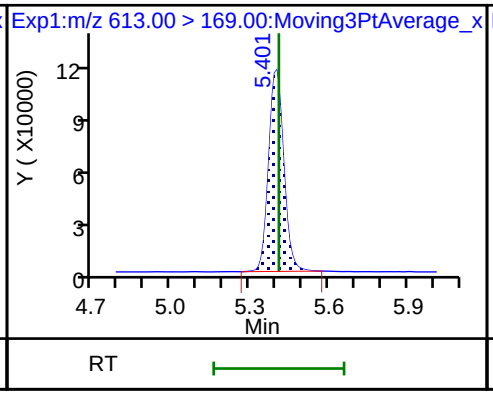
D 56 13C2 PFDoA



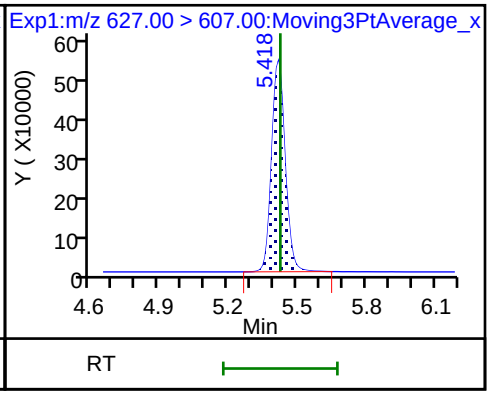
57 Perfluorododecanoic acid



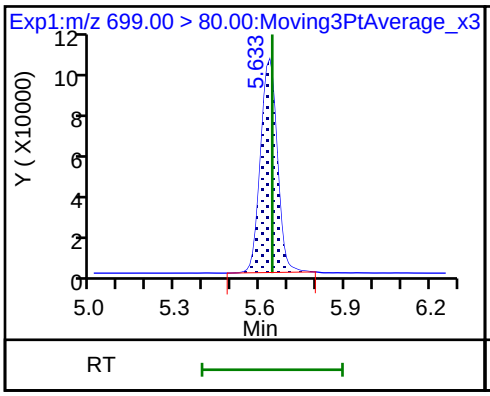
57 Perfluorododecanoic acid



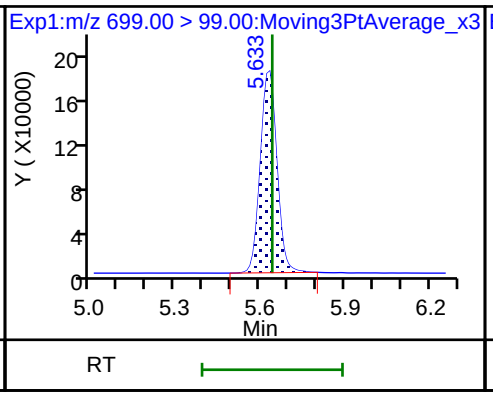
58 10:2 FTS



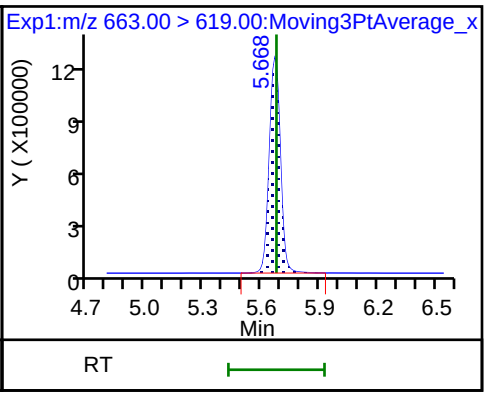
59 PFDoS



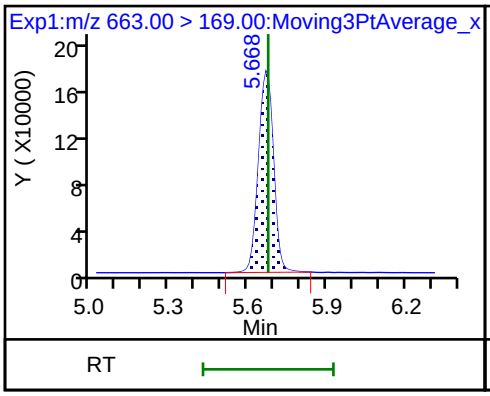
59 PFDoS



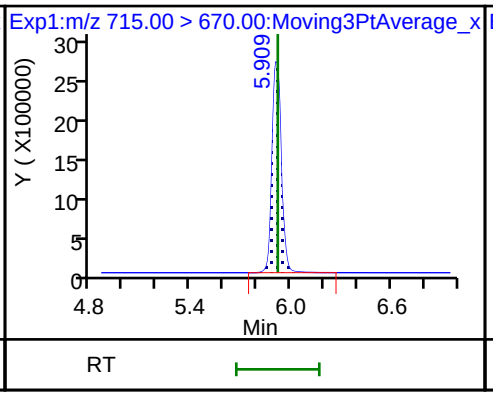
60 Perfluorotridecanoic acid



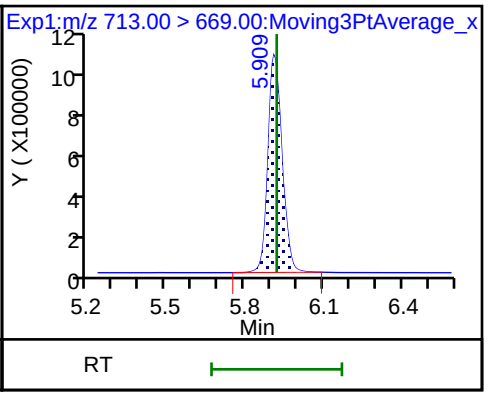
60 Perfluorotridecanoic acid



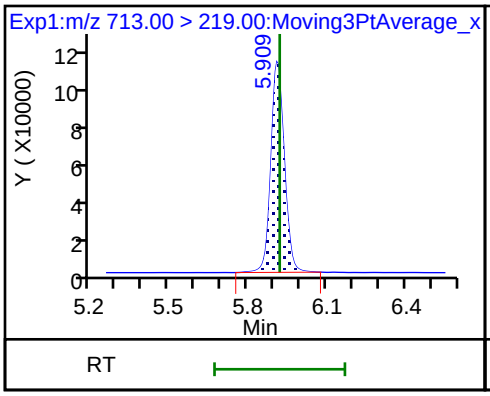
D 61 13C2 PFTeDA



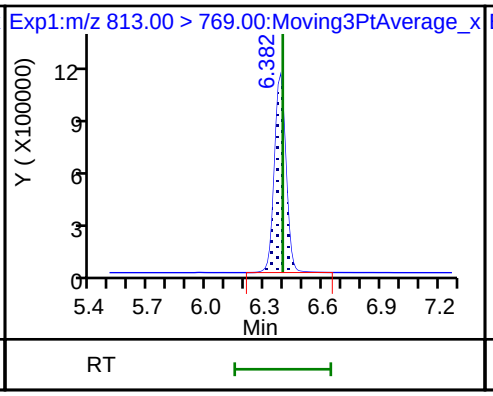
62 Perfluorotetradecanoic acid



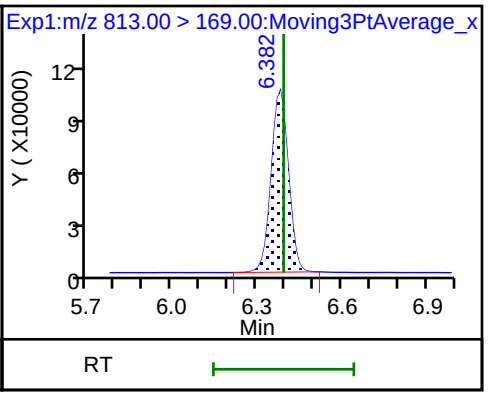
62 Perfluorotetradecanoic acid



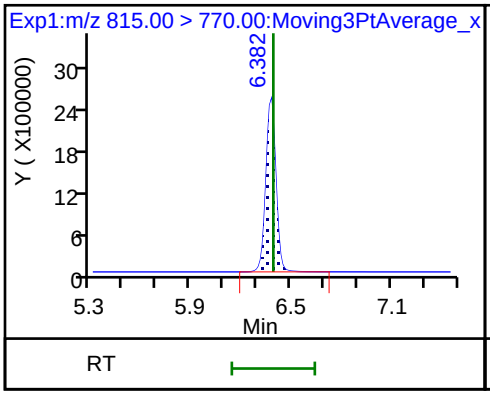
63 Perfluorohexadecanoic acid



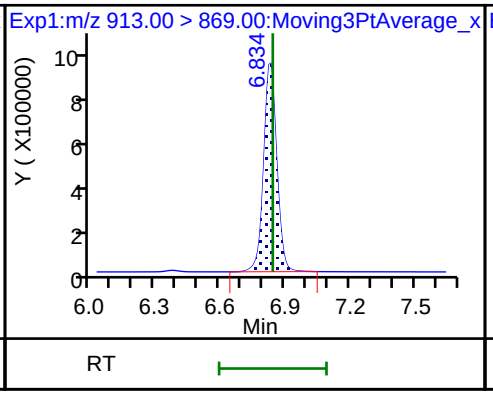
63 Perfluorohexadecanoic acid



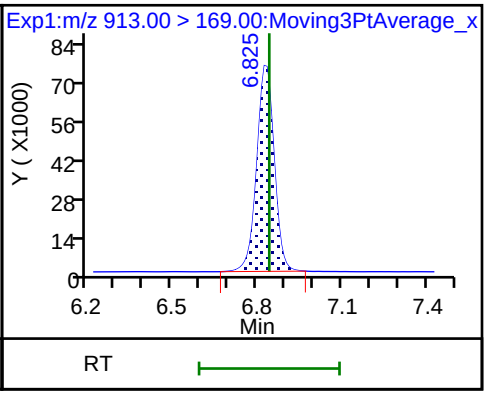
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

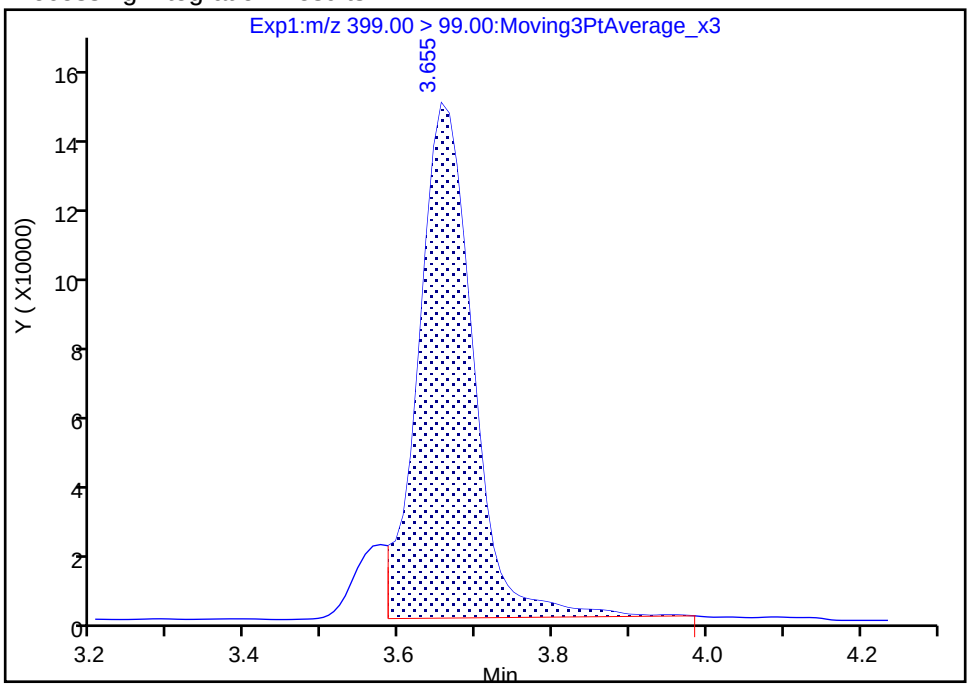
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d
Injection Date: 10-Sep-2020 17:58:31 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

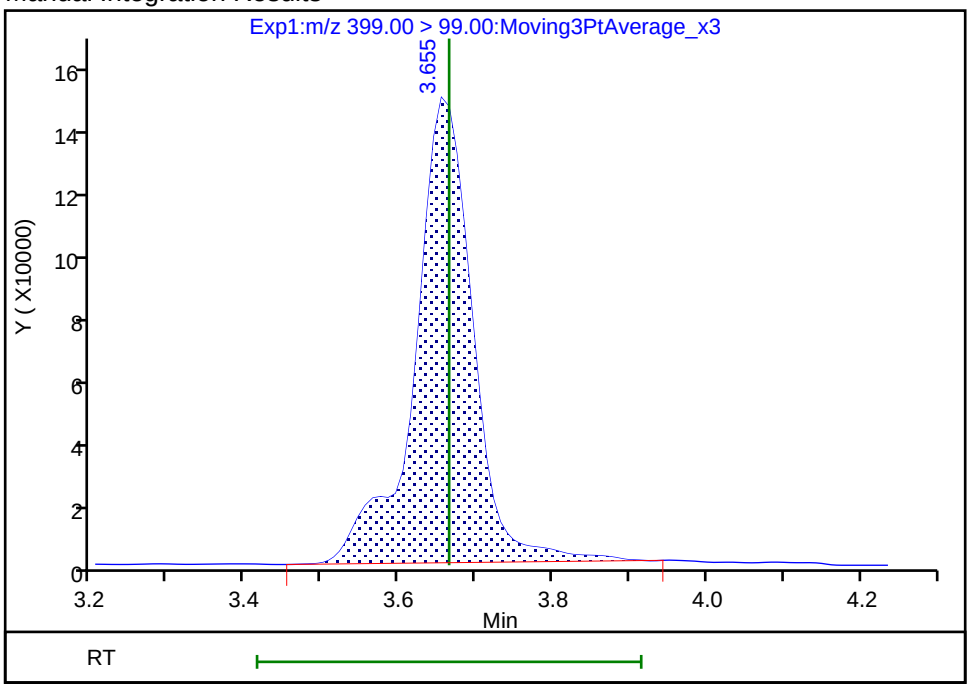
Processing Integration Results

RT: 3.65
Area: 714360
Amount: 0.906864
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 770354
Amount: 0.906864
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:46:13
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

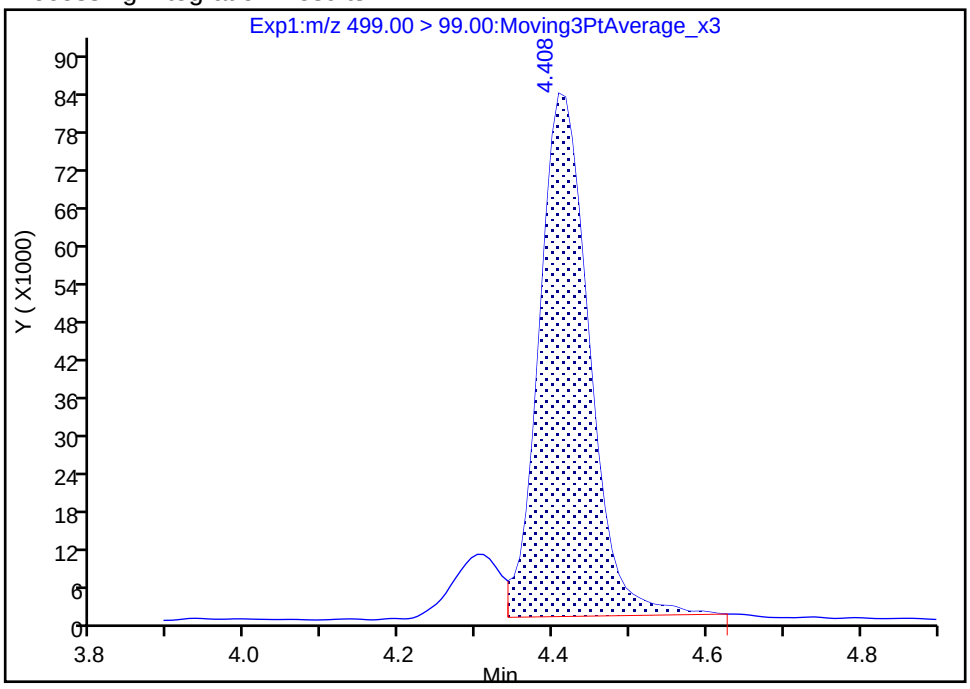
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d
Injection Date: 10-Sep-2020 17:58:31 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

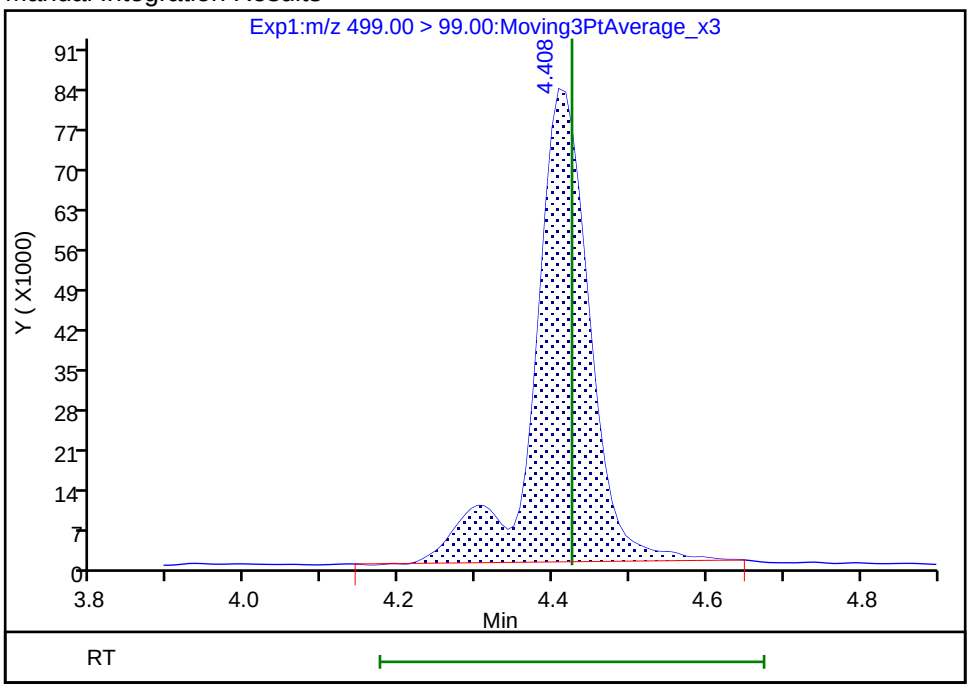
Processing Integration Results

RT: 4.41
Area: 372687
Amount: 0.998579
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 415556
Amount: 0.998579
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:46:19
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-411143/13 Calibration Date: 09/10/2020 19:51

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_070.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.7433	0.8030		2.70	2.50	8.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.028	1.113		2.71	2.50	8.3	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9776	0.9866		2.23	2.21	0.9	50.0
4:2 FTS	AveID	3.243	3.581		2.58	2.34	10.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9294	0.9733		2.62	2.50	4.7	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7896	0.8254		2.45	2.35	4.5	50.0
HFPO-DA (GenX)	AveID	0.2972	0.3110		2.62	2.50	4.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.054		2.61	2.50	4.3	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.112	1.036		2.12	2.28	-6.8	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.136	5.446		2.50	2.36	6.0	50.0
6:2 FTS	AveID	2.407	2.669		2.63	2.37	10.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.139	1.200		2.51	2.38	5.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.023	1.043		2.55	2.50	2.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.038	1.086		2.43	2.32	4.6	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9494	1.024		2.70	2.51	7.8	40.0
F-53B Major	AveID	2.501	2.658		2.48	2.33	6.2	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9383	0.9649		2.57	2.50	2.8	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7747	0.8355		2.59	2.40	7.8	50.0
8:2 FTS	AveID	2.472	2.563		2.48	2.40	3.7	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.8964	0.9783		2.73	2.50	9.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8055	0.8298		2.58	2.50	3.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6588	0.7066		2.59	2.41	7.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6615	0.6916		2.62	2.50	4.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7741	0.7880		2.55	2.50	1.8	40.0
NMeFOSE	AveID	1.065	1.108		2.60	2.50	4.0	40.0
NMeFOSA	AveID	0.9832	1.177		2.99	2.50	19.7	50.0
F-53B Minor	AveID	4.317	4.855		2.65	2.36	12.5	50.0
NEtFOSE	AveID	1.035	1.174		2.83	2.50	13.4	40.0
NEtFOSA	AveID	1.062	1.202		2.83	2.50	13.2	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9122	0.9358		2.58	2.52	2.6	40.0
10:2 FTS	AveID	1.632	1.811		2.68	2.41	11.0	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2572	0.2653		2.50	2.42	3.1	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-411143/13 Calibration Date: 09/10/2020 19:51

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_070.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	1.134		3.03	2.50	21.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.9843	1.082		2.75	2.50	9.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9384		2.44	2.50	-2.4	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7306	0.8446		2.89	2.50	15.6	50.0
13C4 PFBA	Ave	0.8499	0.9225		2.71	2.50	8.5	50.0
13C5 PFPeA	Ave	0.6625	0.6857		2.59	2.50	3.5	50.0
13C3 PFBS	Ave	0.8317	1.039		2.91	2.33	24.9	50.0
M2-4:2 FTS	Ave	0.2037	0.2065		2.37	2.34	1.3	50.0
13C2 PFHxA	Ave	0.8183	0.8817		2.69	2.50	7.7	50.0
13C3 HFPO-DA	Ave	0.5866	0.6063		2.58	2.50	3.4	50.0
13C4 PFHpA	Ave	0.8058	0.8621		2.67	2.50	7.0	50.0
18O2 PFHxS	Ave	0.5449	0.6382		2.77	2.37	17.1	50.0
M2-6:2 FTS	Ave	0.2349	0.2228		2.25	2.38	-5.1	50.0
13C4 PFOA	Ave	0.9849	0.9944		2.52	2.50	1.0	50.0
13C4 PFOS	Ave	0.3888	0.4429		2.72	2.39	13.9	50.0
13C5 PFNA	Ave	0.9099	0.9111		2.50	2.50	0.1	50.0
13C8 FOSA	Ave	0.5585	0.5975		2.68	2.50	7.0	50.0
13C2 PFDA	Ave	1.102	1.105		2.51	2.50	0.3	50.0
M2-8:2 FTS	Ave	0.3107	0.3160		2.44	2.40	1.7	50.0
d3-NMeFOSAA	Ave	0.5682	0.6007		2.64	2.50	5.7	50.0
13C2 PFUnA	Ave	1.078	1.096		2.54	2.50	1.7	50.0
d5-NEtFOSAA	Ave	0.5501	0.5631		2.56	2.50	2.4	50.0
d7-N-MeFOSE-M	Ave	0.1398	0.1315		11.8	12.5	-5.9	50.0
d-N-MeFOSA-M	Ave	0.2628	0.2648		2.52	2.50	0.8	50.0
d9-N-EtFOSE-M	Ave	0.1640	0.1465		11.2	12.5	-10.7	50.0
d-N-EtFOSA-M	Ave	0.2510	0.2522		2.51	2.50	0.5	50.0
13C2 PFDoA	Ave	1.160	1.114		2.40	2.50	-4.0	50.0
13C2 PFTeDA	Ave	1.146	1.110		2.42	2.50	-3.2	50.0
13C2 PFHxDA	Ave	1.193	1.118		2.34	2.50	-6.3	50.0
13C8 PFOA	Ave	0.8908	0.8842		2.43	2.45	-0.7	50.0
13C8 PFOS	Ave	0.2076	0.2240		2.58	2.39	7.9	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_070.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 10-Sep-2020 19:51:24 ALS Bottle#: 53 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 10:58:29 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 10:58:29
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.475	0.0	0.611	9238505	2.71		109	11454	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.482	-0.007	1.000	7418068	2.70		108	619	
D 4 13C5 PFPeA										
267.90 > 223.00	2.856	2.867	-0.011	0.705	6867202	2.59		104	9341	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.867	0.0	1.004	7643271	2.71		108	291	
D 14 13C3 PFBS										
301.90 > 80.00	2.902	2.913	-0.011	0.716	9678203	2.90		125	17526	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.902	2.913	-0.011	1.000	9076506	2.23	Target=2.18	101	5976	
298.90 > 99.00	2.902	2.913	-0.011	1.000	4169958		2.18(1.09-3.26)		1147	
7 4:2 FTS										
327.00 > 307.00	3.204	3.215	-0.011	1.000	6916919	2.58		110	16683	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.204	3.215	-0.011	0.791	1931368	2.37		101	999	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.247	3.258	-0.011	1.000	8593924	2.62	Target=11.68	105	389	
313.00 > 119.00	3.247	3.258	-0.011	1.000	703305		12.22(5.84-17.52)		231	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.802	8829582	2.69		108	16475	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.268	3.279	-0.011	1.126	8057138	2.45	Target=2.56	105	7772	
349.00 > 99.00	3.268	3.279	-0.011	1.126	3222992		2.50(1.28-3.84)		2374	
12 HPFO-DA										
285.00 > 169.00	3.371	3.380	-0.009	1.000	1888715	2.62		105	2274	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.371	3.380	-0.009	0.832	6072482	2.58		103	2836	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	6046764	2.77		117	4154	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.655	3.665	-0.010	1.000	9097014	2.61	Target=3.85	104	646	
363.00 > 169.00	3.655	3.665	-0.010	1.000	2308850		3.94(1.92-5.77)		804	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.655	3.665	-0.010	1.000	6027147	2.12	Target=3.25	93.2	444	
399.00 > 99.00	3.655	3.665	-0.010	1.000	2031678		2.97(1.62-4.87)		542	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	8633340	2.67		107	7543	
19 DONA										
377.00 > 251.00	3.705	3.713	-0.009	0.840	22753630	2.50	Target=2.76	106	24470	
377.00 > 85.00	3.705	3.713	-0.009	0.840	8279526		2.75(1.38-4.14)		4570	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.026	4.042	-0.016	0.994	2119960	2.25		94.9	1691	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	1.000	5646452	2.63		111	2623	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.042	4.051	-0.009	0.917	5069109	2.51	Target=4.29	105	3813	
449.00 > 99.00	4.042	4.051	-0.009	0.917	1242702		4.08(2.15-6.44)		743	
$ 23 13C8 PFOA										
421.00 > 376.00	4.042	4.051	-0.009	0.998	8668929	2.43		99.3	4214	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.000	9958634	2.52		101	4347	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.051	4.059	-0.008	1.000	10397910	2.55	Target=2.95	102	1186	
413.00 > 169.00	4.051	4.059	-0.008	1.000	3494276		2.98(1.47-4.42)		2037	
* 25 13C2 PFOA										
415.00 > 370.00	4.051	4.059	-0.008		10014836	2.50			5325	
$ 27 13C8 PFOS										
507.00 > 99.00	4.409	4.416	-0.007	1.089	2144568	2.58		108	1273	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.409	4.425	-0.016	1.000	4468490	2.43	Target=4.28	105	523	
499.00 > 99.00	4.409	4.425	-0.016	1.000	1112579		4.02(2.14-6.41)		552	M
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.089	4240348	2.72		114	4088	
30 Perfluorononanoic acid										
463.00 > 419.00	4.426	4.433	-0.007	1.000	9360453	2.70	Target=8.00	108	1819	
463.00 > 169.00	4.426	4.433	-0.007	1.000	1188935		7.87(4.00-12.01)		1221	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.093	9124087	2.50		100	5789	
32 9ClFOS										
531.00 > 351.00	4.609	4.620	-0.011	1.045	10986456	2.48		106	22127	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.169	5984010	2.67		107	4232	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	5774148	2.57		103	6122	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.751	4.766	-0.015	1.078	3557544	2.59	Target=2.15	108	2187	
549.00 > 99.00	4.760	4.766	-0.006	1.080	1734805		2.05(1.08-3.23)		2044	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	11069205	2.51		100	4169	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.786	4.793	-0.007	1.000	10828506	2.73	Target=10.44	109	2854	
513.00 > 169.00	4.777	4.793	-0.016	0.998	977667		11.08(5.22-15.65)		255	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	3031437	2.44		102	3194	
39 8:2 FTS										
527.00 > 507.00	4.786	4.802	-0.016	1.000	7769535	2.48		104	7173	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.942	4.959	-0.017	1.220	6015773	2.64		106	2696	
41 NMeFOSAA										
570.00 > 419.00	4.952	4.959	-0.007	1.002	4992158	2.58		103	1012	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.077	5.084	-0.007	1.152	3021243	2.58	Target=2.36	107	2064	
599.00 > 99.00	5.077	5.084	-0.007	1.152	1334990		2.26(1.18-3.54)		1331	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.261	10977429	2.54		102	3818	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.106	5.113	-0.007	1.000	7600050	2.62	Target=8.67	105	2286	
563.00 > 169.00	5.106	5.113	-0.007	1.000	884701		8.59(4.34-13.01)		1228	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.106	5.123	-0.017	1.261	5638982	2.56		102	2253	
48 NEtFOSA										
584.00 > 419.00	5.116	5.132	-0.016	1.002	4443654	2.54		102	56764	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.190	-0.006	1.280	6586851	11.8		94.1	2711	
47 N-MeFOSE-M										
616.00 > 59.00	5.194	5.200	-0.006	1.002	1459038	2.60		104	1285	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.212	-0.007	1.285	2652425	2.52		101	46.0	
50 NMeFOSA										
512.00 > 169.00	5.216	5.223	-0.007	1.002	3121977	2.99		120	230	
51 11ClFOS										
631.00 > 451.00	5.238	5.255	-0.017	1.188	20284769	2.65		112	30089	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.359	-0.006	1.322	7337019	11.2		89.3	3187	
53 N-EtFOSE-M										
630.00 > 59.00	5.362	5.376	-0.014	1.002	1722263	2.83		113	1569	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.385	-0.006	1.328	2525444	2.51		100	151	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.393	-0.006	1.002	3035353	2.83		113	208	
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.332	11154477	2.40		96.0	6981	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.404	5.409	-0.005	1.002	10501275	2.58	Target=9.05	103	3185	
613.00 > 169.00	5.396	5.409	-0.013	1.000	1139650		9.21(4.52-13.57)		2365	
58 10:2 FTS										
627.00 > 607.00	5.412	5.426	-0.014	1.131	5525388	2.68		111	3093	
59 PFDoS										
699.00 > 80.00	5.627	5.642	-0.015	1.276	1138905	2.50	Target=0.57	103	1437	
699.00 > 99.00	5.627	5.642	-0.015	1.276	1938020		0.59(0.29-0.86)		2101	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.662	5.676	-0.014	1.049	12652242	3.03	Target=7.06	121	4919	
663.00 > 169.00	5.662	5.676	-0.014	1.049	1656382		7.64(3.53-10.59)		1862	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.905	5.920	-0.015	1.458	11115339	2.42		96.8	10483	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.910	5.920	-0.010	1.001	12035386	2.75	Target=11.23	110	5601	
713.00 > 219.00	5.905	5.920	-0.015	1.000	1062242		11.33(5.62-16.85)		3753	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.379	6.393	-0.014	1.000	10505851	2.44	Target=9.45	97.6	4666	
813.00 > 169.00	6.379	6.393	-0.014	1.000	1282236		8.19(4.72-14.17)		2987	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.379	6.393	-0.014	1.575	11195324	2.34		93.7	7064	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.824	6.842	-0.018	1.070	9455314	2.89	Target=11.13	116	2946	
913.00 > 169.00	6.824	6.842	-0.018	1.070	899445		10.51(5.56-16.69)		2342	

QC Flag Legend

Review Flags

M - Manually Integrated

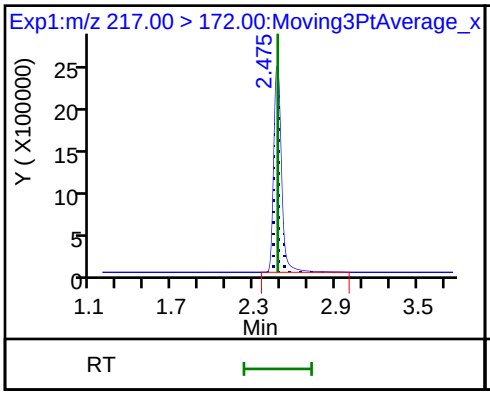
Reagents:

LCPFC_LL5_00031 Amount Added: 1.00 Units: mL

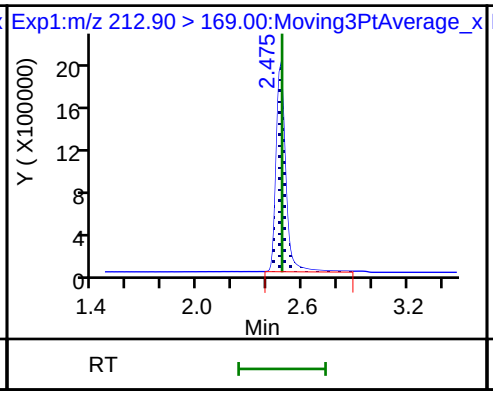
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_070.d
Injection Date: 10-Sep-2020 19:51:24 Instrument ID: A13
Lims ID: CCV L5
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 53 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL

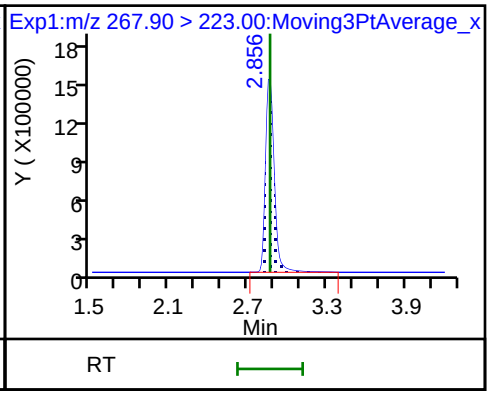
D 1 13C4 PFBA



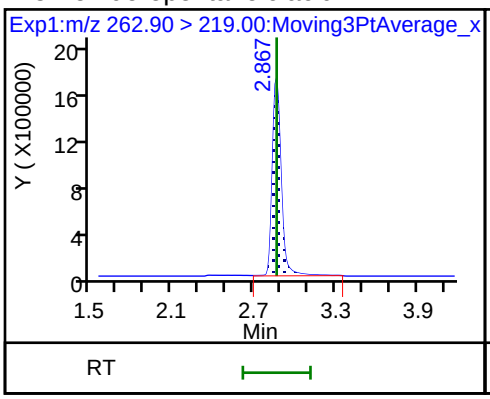
2 Perfluorobutanoic acid



D 4 13C5 PFPeA



5 Perfluoropentanoic acid



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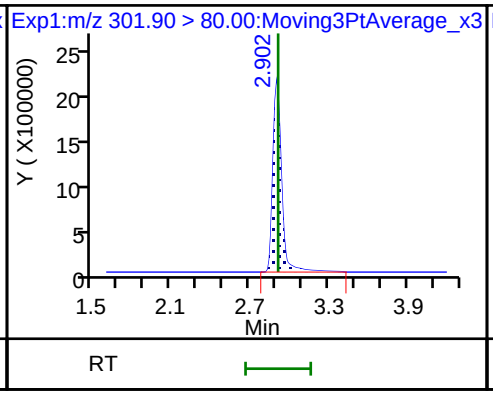
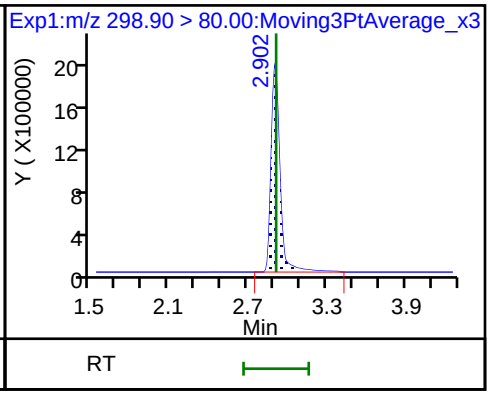
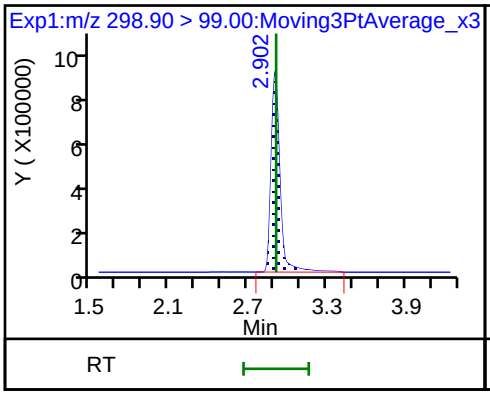


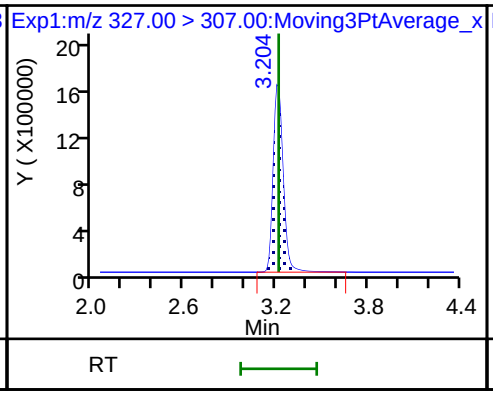
6 Perfluorobutanesulfonic acid



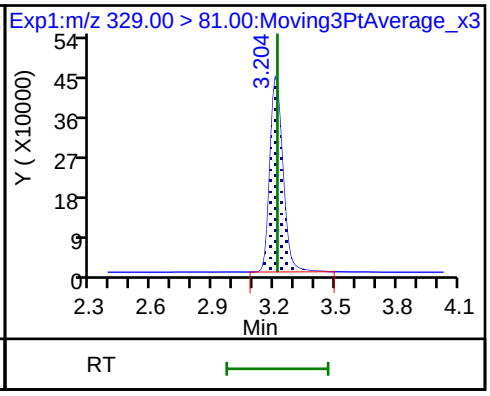
6 Perfluorobutanesulfonic acid



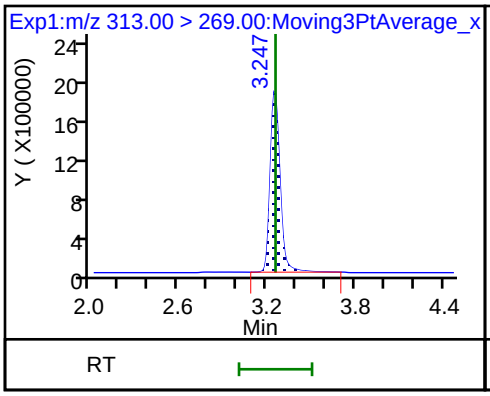
7 4:2 FTS



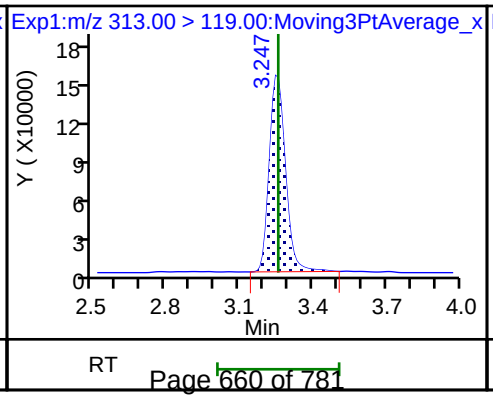
D 8 M2-4:2 FTS



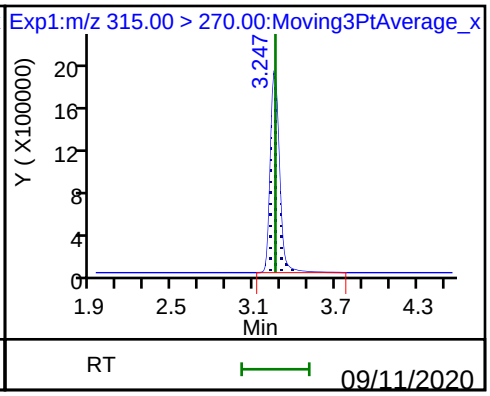
10 Perfluorohexanoic acid



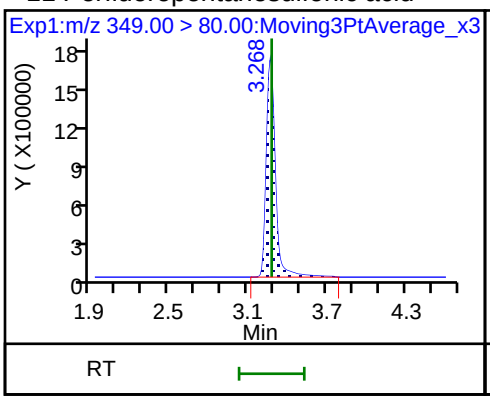
10 Perfluorohexanoic acid



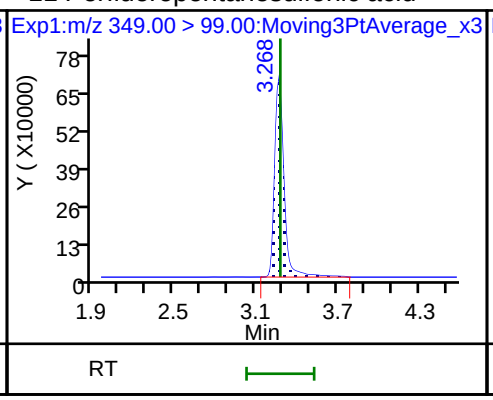
D 9 13C2 PFHxA



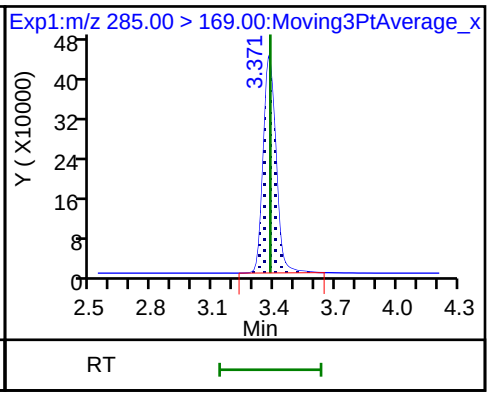
11 Perfluoropentanesulfonic acid



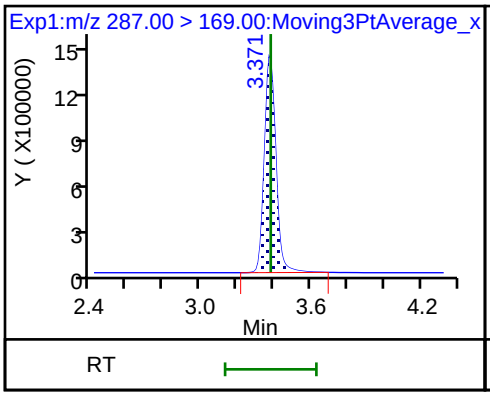
11 Perfluoropentanesulfonic acid



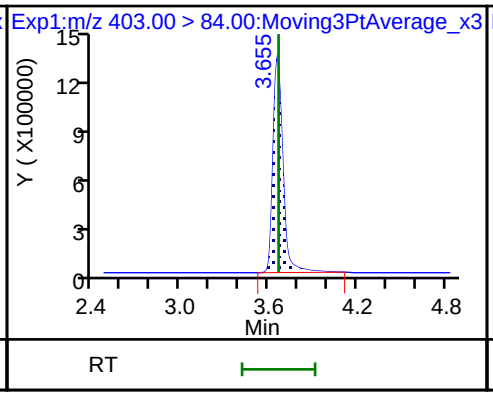
12 HPFO-DA



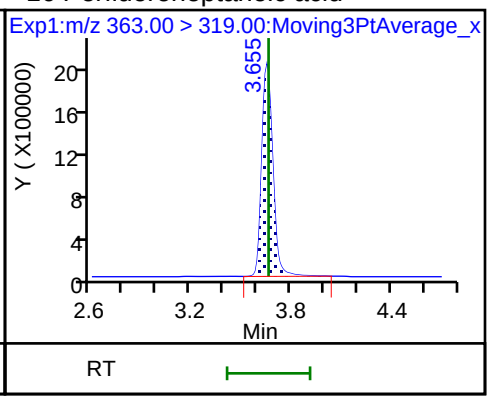
D 13 13C3 HFPO-DA



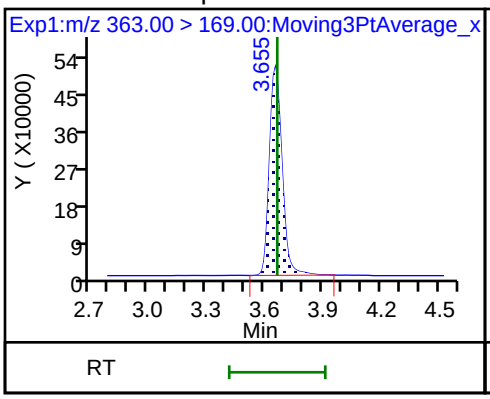
D 17 18O2 PFHxS



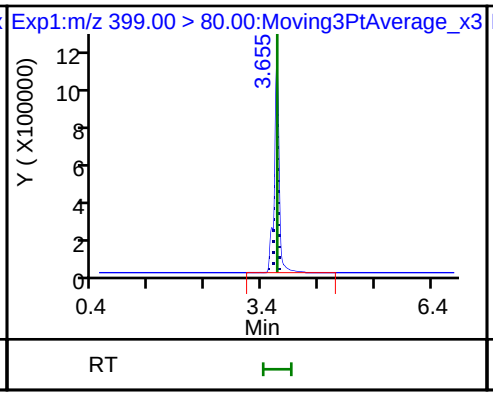
16 Perfluoroheptanoic acid



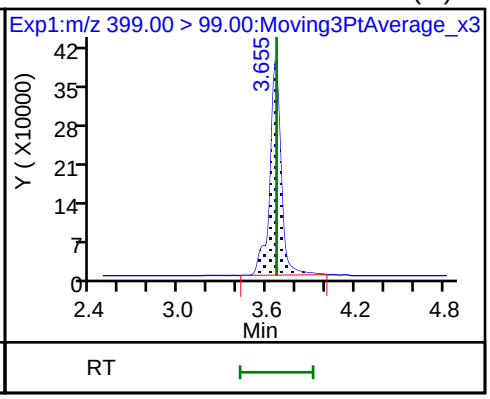
16 Perfluoroheptanoic acid



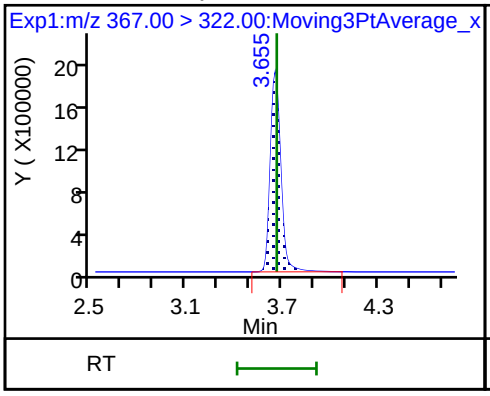
18 Perfluorohexanesulfonic acid



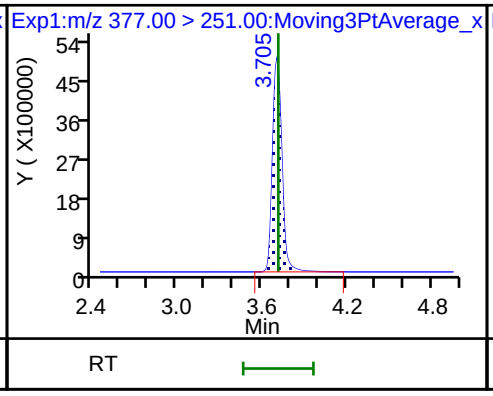
18 Perfluorohexanesulfonic acid (M)



D 15 13C4 PFHpA



19 DONA



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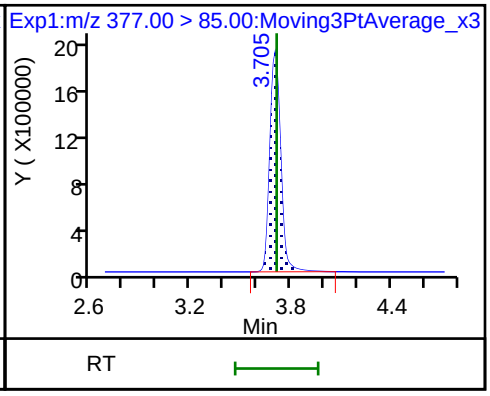
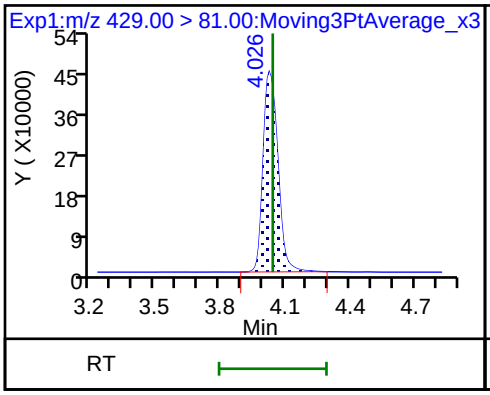
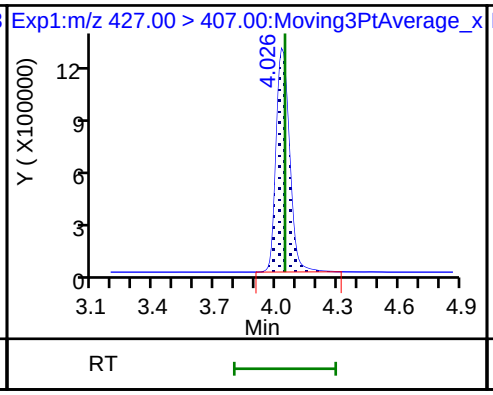


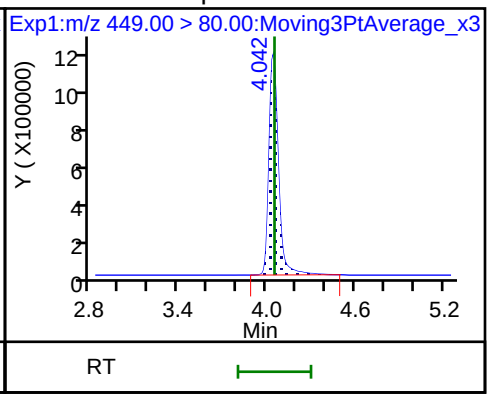
D 20 M2-6:2 FTS



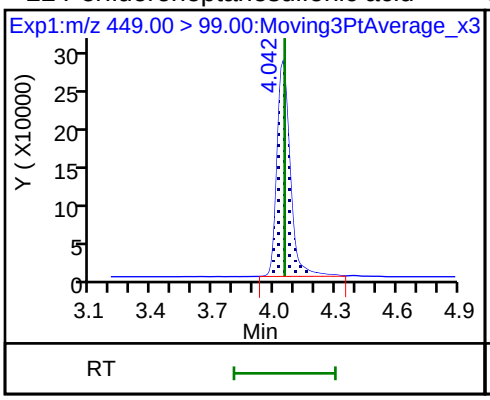
21 6:2 FTS



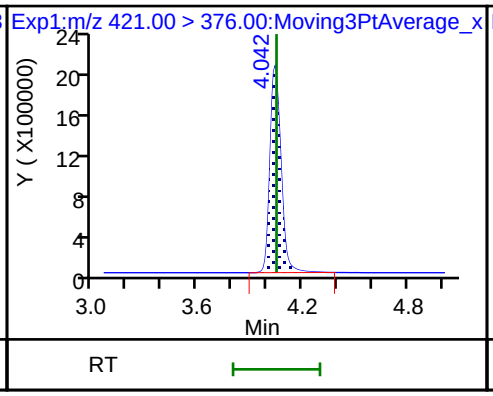
22 Perfluoroheptanesulfonic acid



22 Perfluoroheptanesulfonic acid



$ 23 13C8 PFOA



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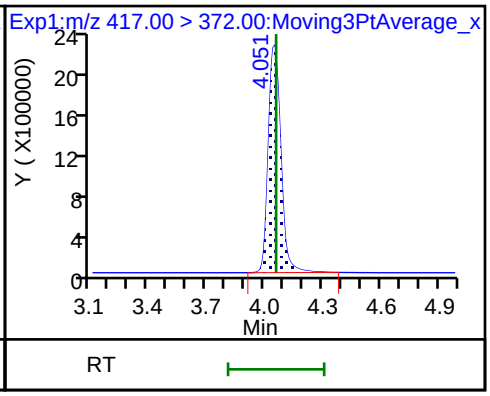
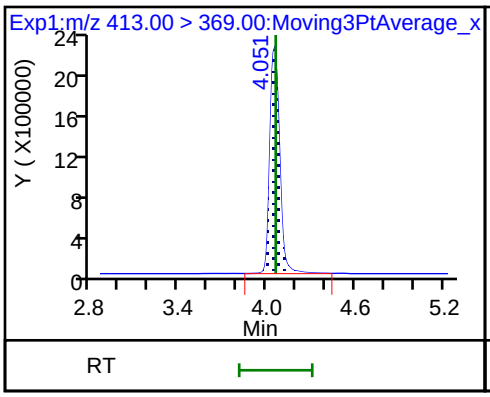
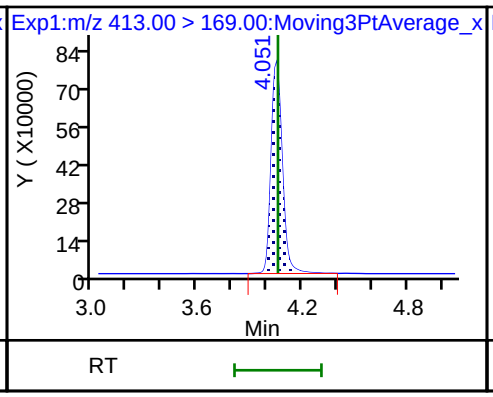


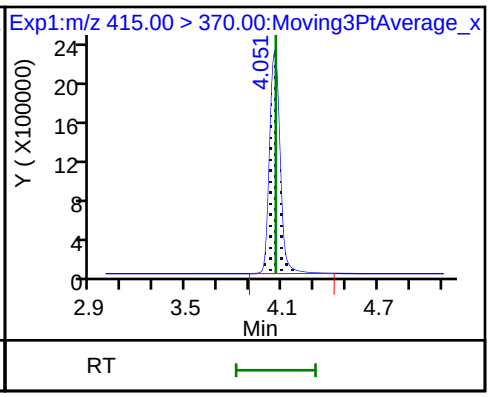
26 Perfluorooctanoic acid



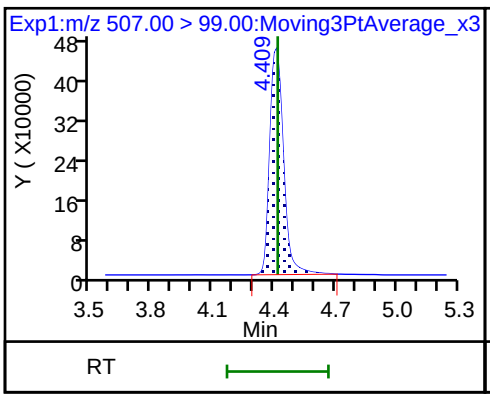
26 Perfluorooctanoic acid



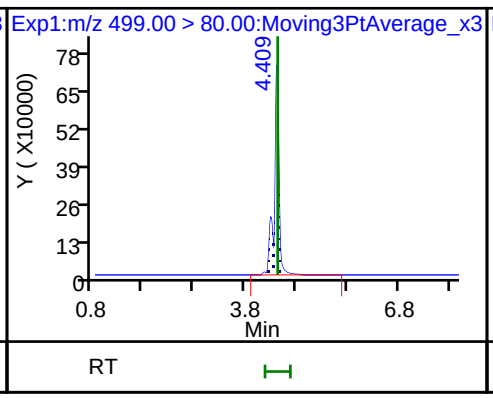
* 25 13C2 PFOA



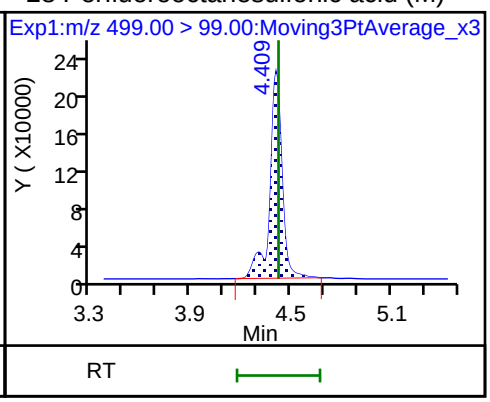
$ 27 13C8 PFOS



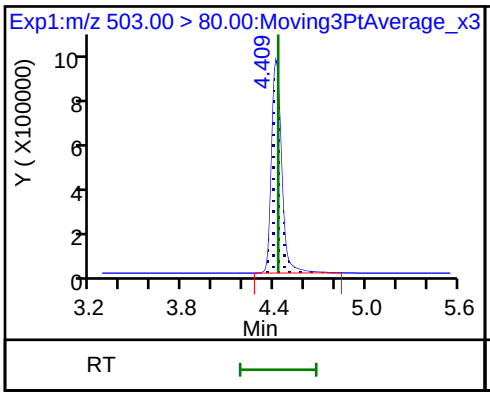
28 Perfluorooctanesulfonic acid



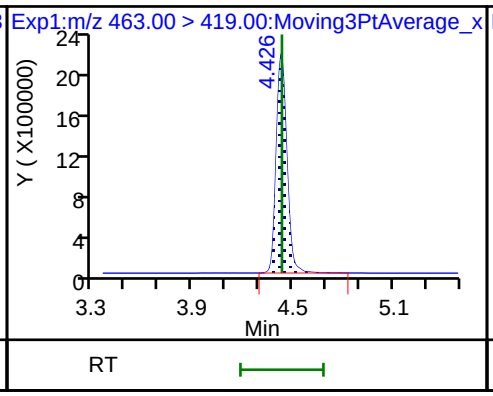
28 Perfluorooctanesulfonic acid (M)



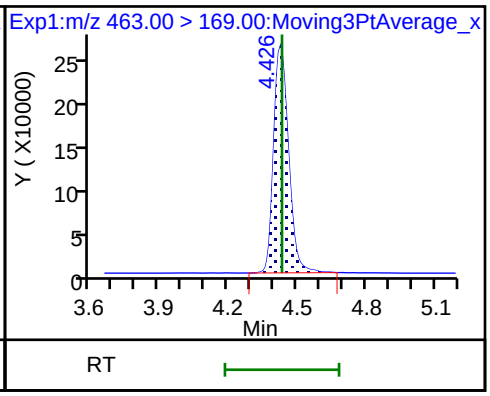
D 29 13C4 PFOS



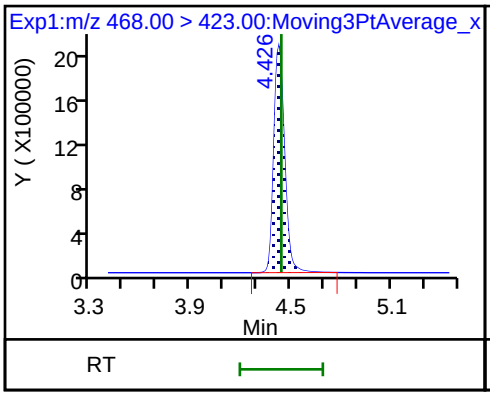
30 Perfluorononanoic acid



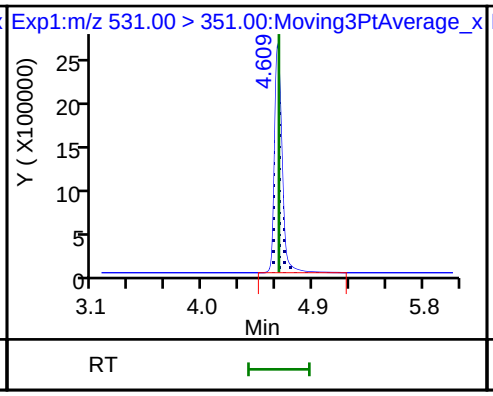
30 Perfluorononanoic acid



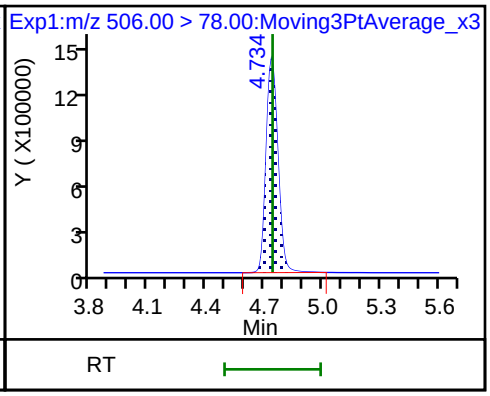
D 31 13C5 PFNA



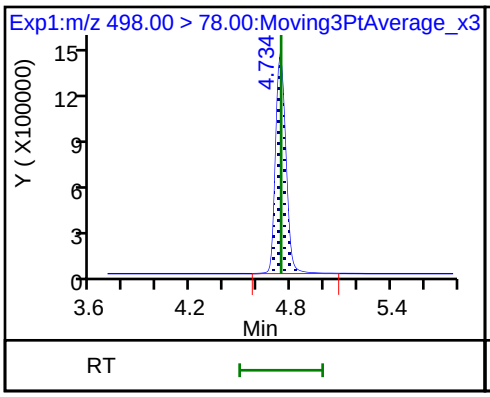
32 9ClFOS



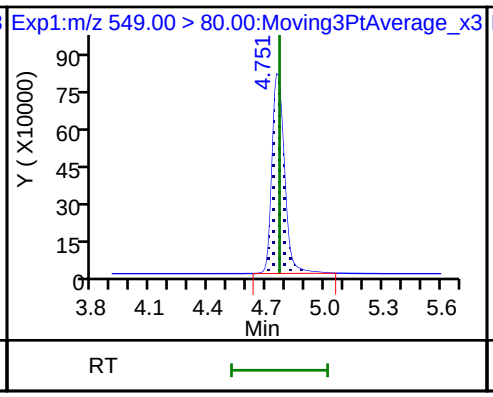
D 34 13C8 FOSA



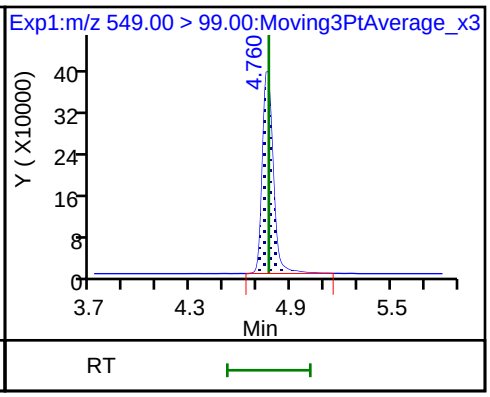
33 Perfluorooctanesulfonamide



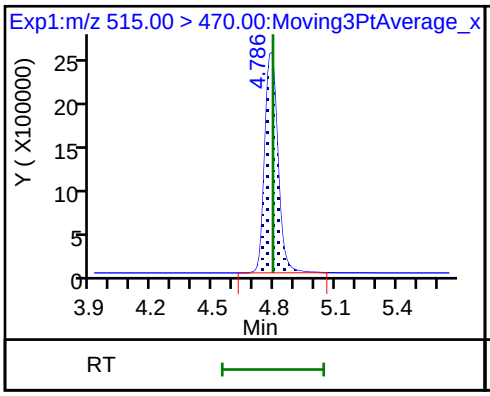
35 Perfluorononanesulfonic acid



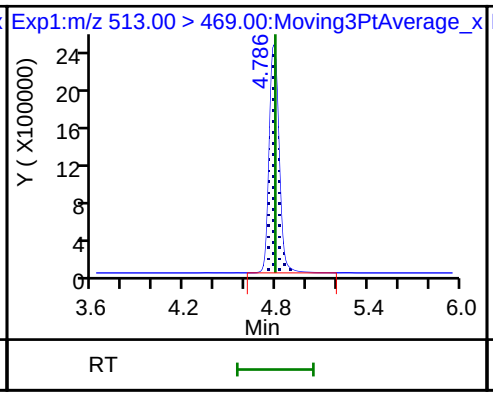
35 Perfluorononanesulfonic acid



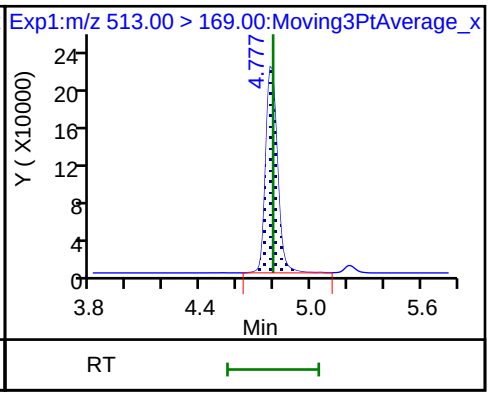
D 37 13C2 PFDA



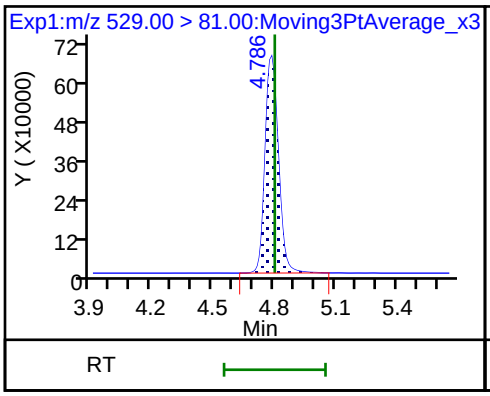
36 Perfluorodecanoic acid



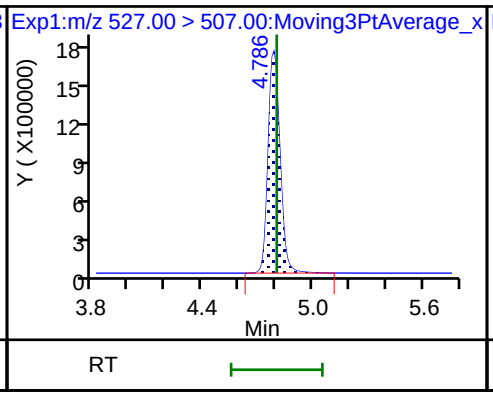
36 Perfluorodecanoic acid



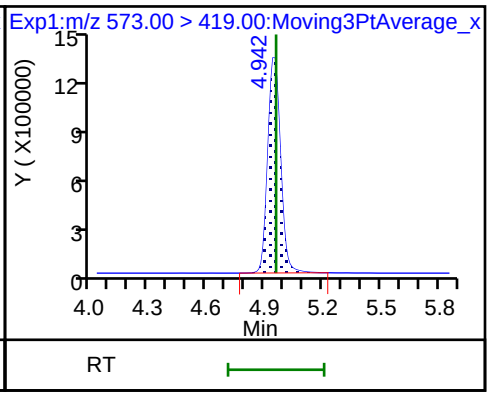
D 38 M2-8:2 FTS



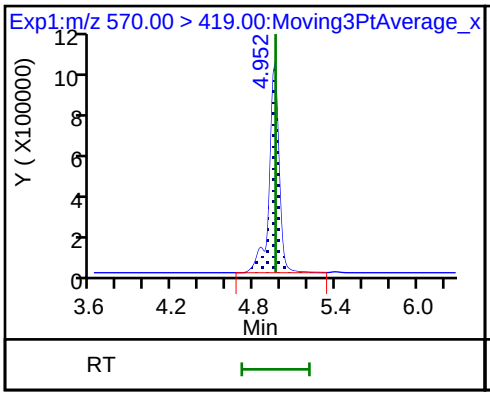
39 8:2 FTS



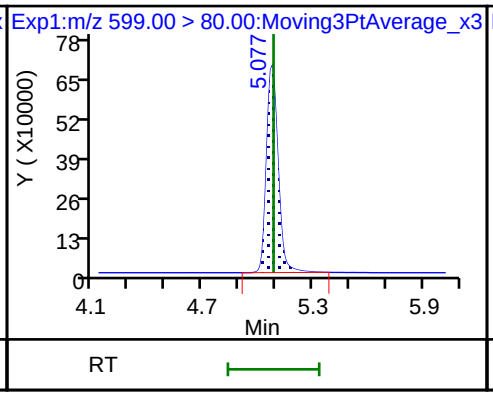
D 40 d3-NMeFOSAA



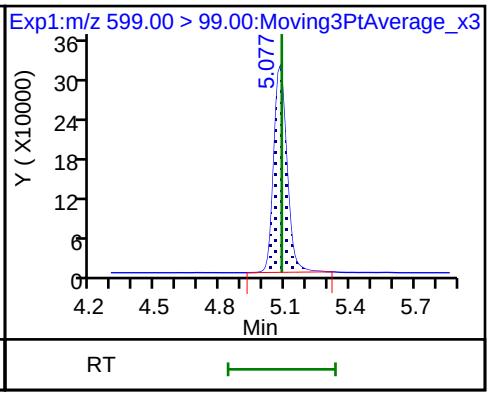
41 NMeFOSAA



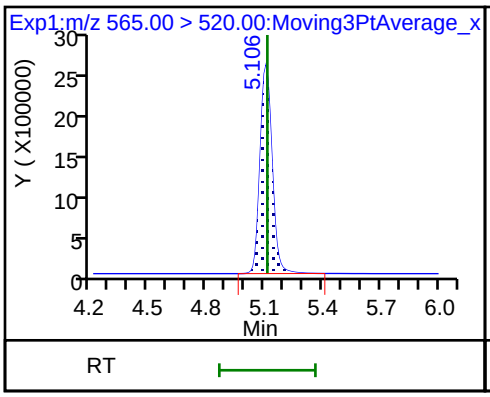
42 Perfluorodecanesulfonic acid



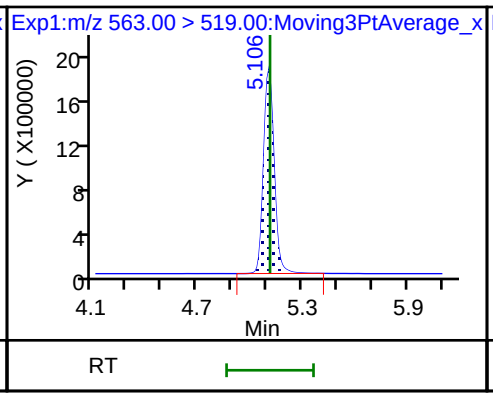
42 Perfluorodecanesulfonic acid



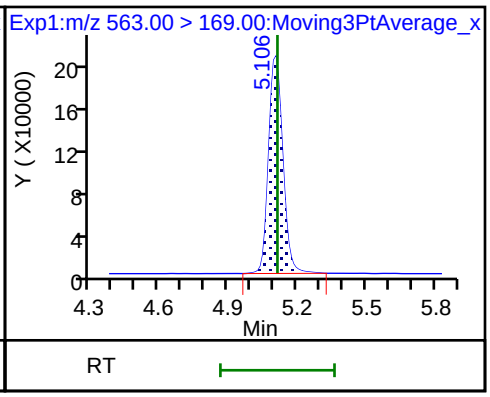
D 44 13C2 PFUnA



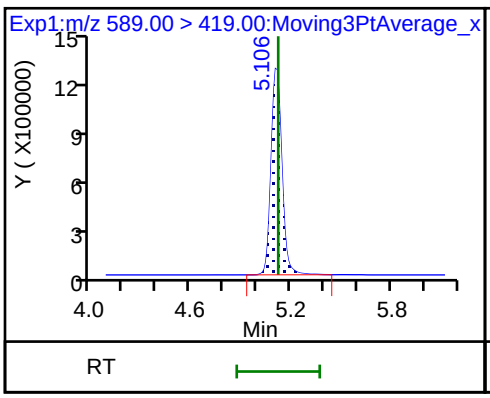
45 Perfluoroundecanoic acid



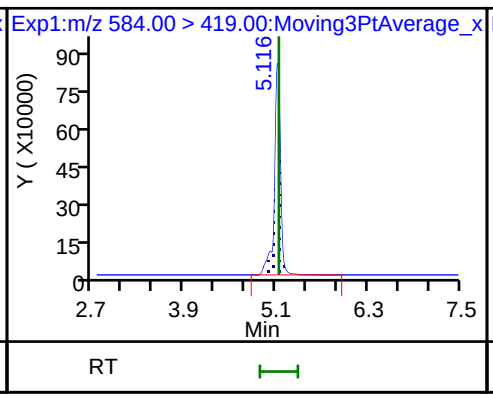
45 Perfluoroundecanoic acid



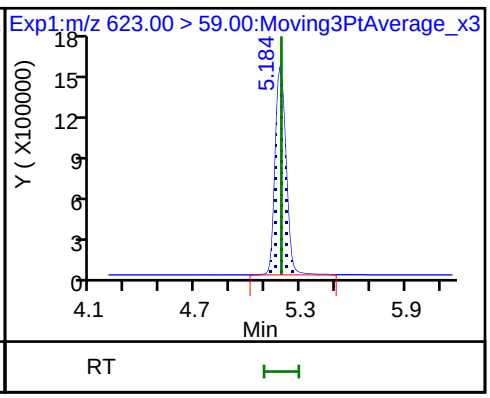
D 46 d5-NEtFOSAA



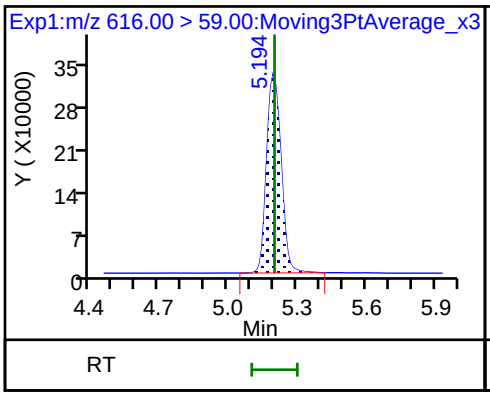
48 NEtFOSA



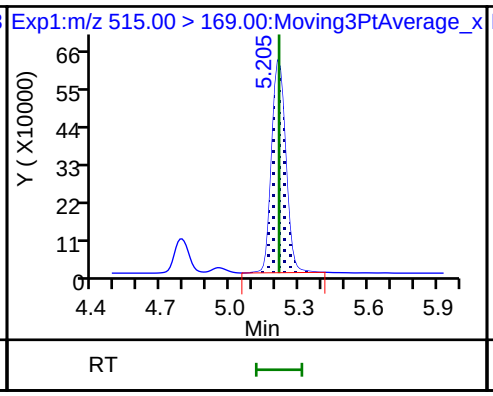
D 43 d7-N-MeFOSE-M



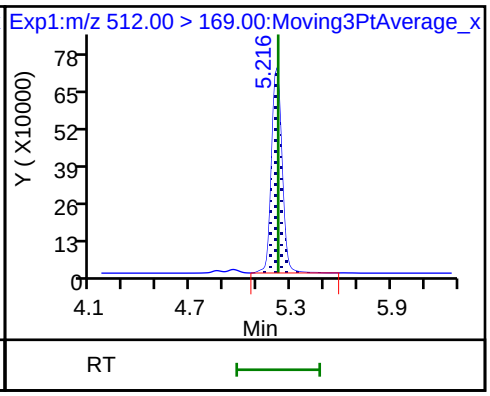
47 N-MeFOSE-M



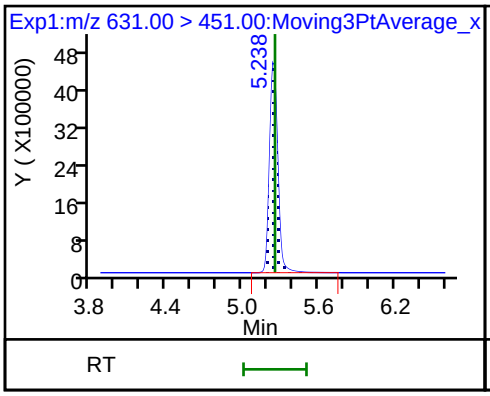
D 49 d-N-MeFOSA-M



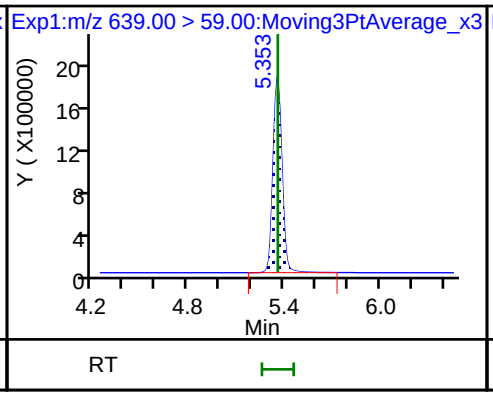
50 NMeFOSA



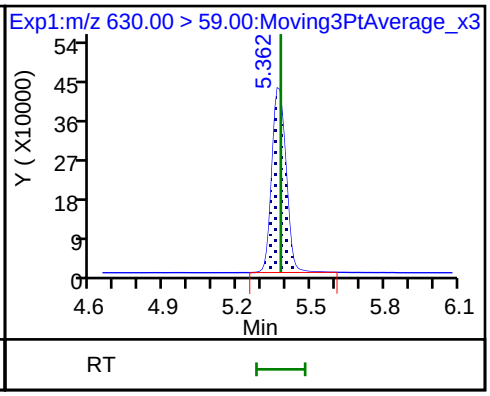
51 11ClFOS



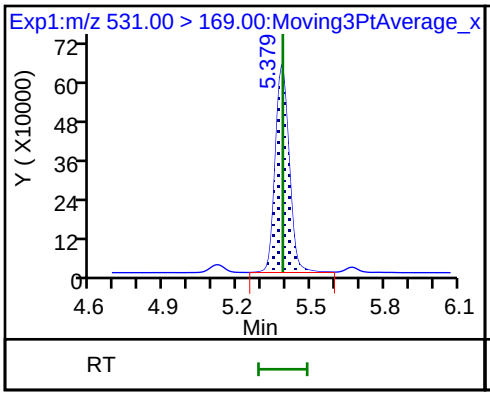
D 52 d9-N-EtFOSE-M



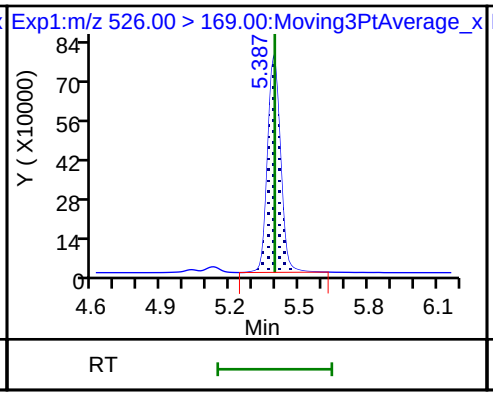
53 N-EtFOSE-M



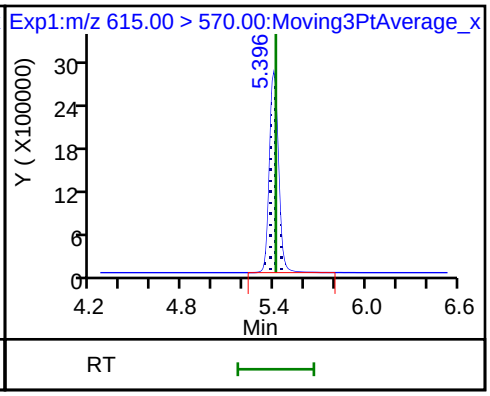
D 54 d-N-EtFOSA-M



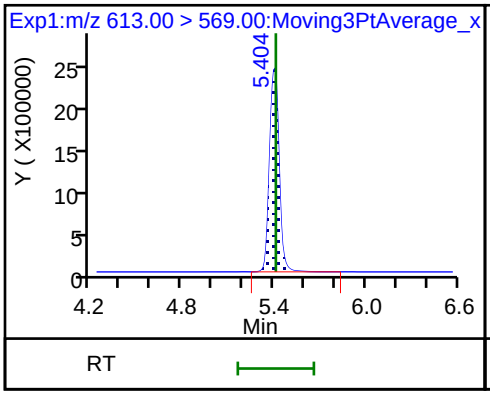
55 N-EtFOSA-M



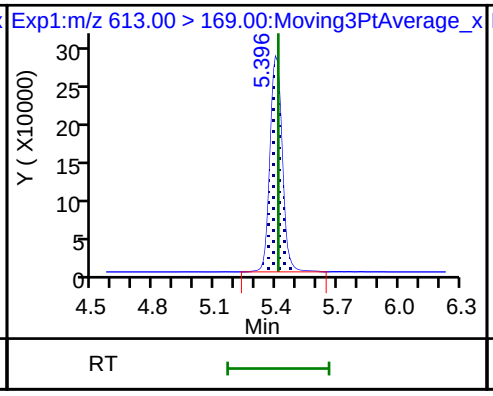
D 56 13C2 PFDoA



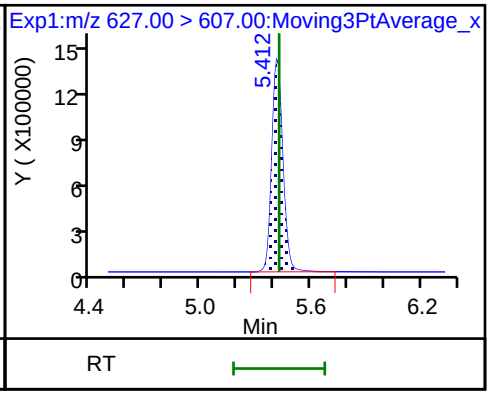
57 Perfluorododecanoic acid



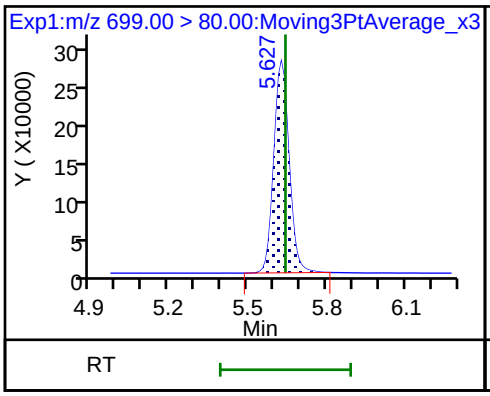
57 Perfluorododecanoic acid



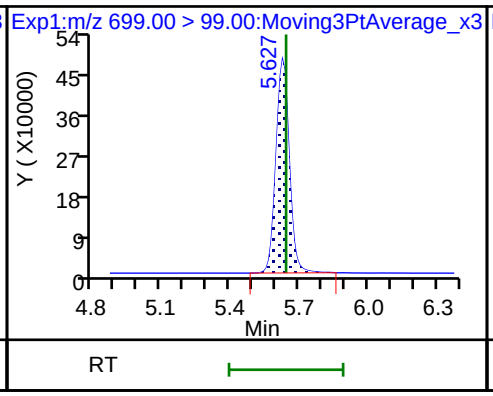
58 10:2 FTS



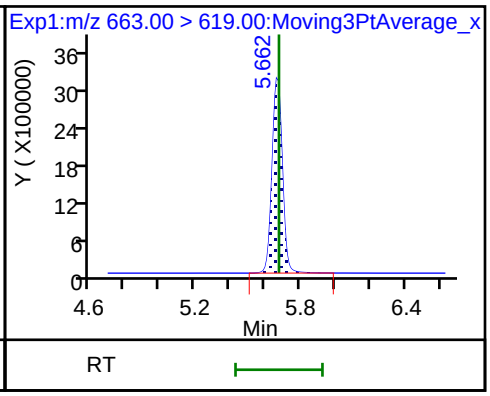
59 PFDoS



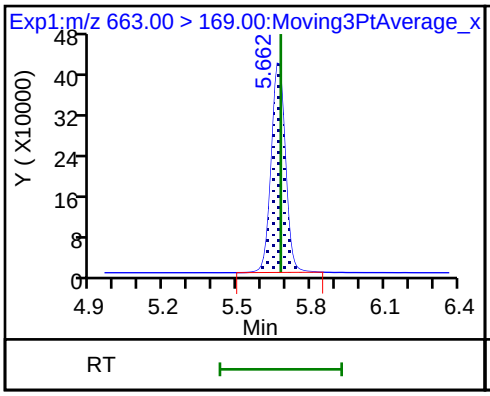
59 PFDoS



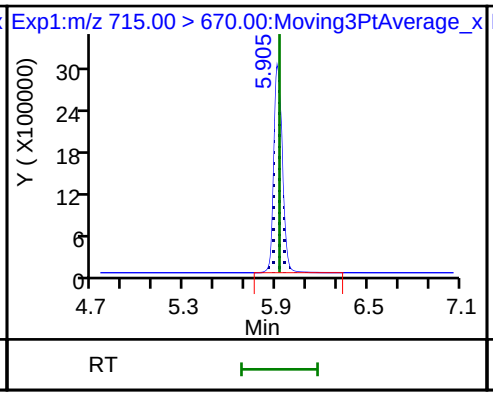
60 Perfluorotridecanoic acid



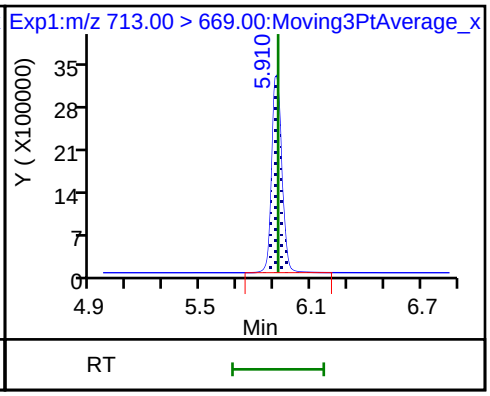
60 Perfluorotridecanoic acid



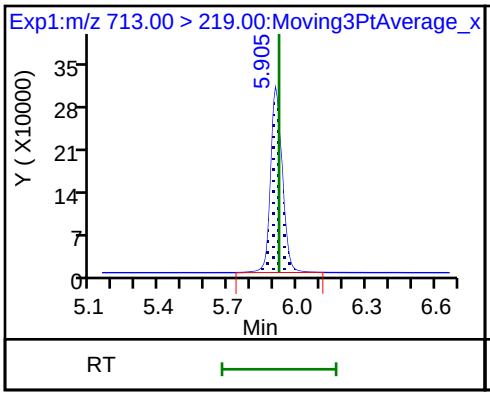
D 61 13C2 PFTeDA



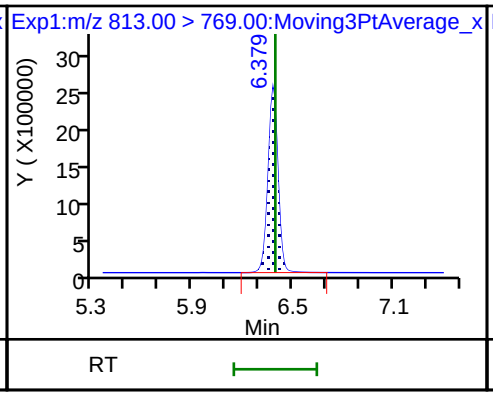
62 Perfluorotetradecanoic acid



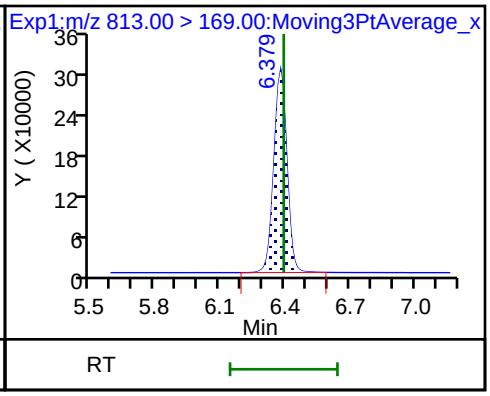
62 Perfluorotetradecanoic acid



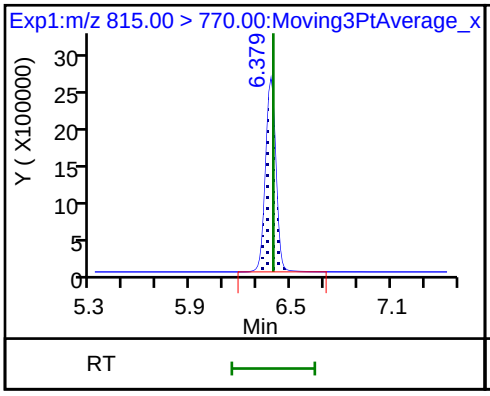
63 Perfluorohexadecanoic acid



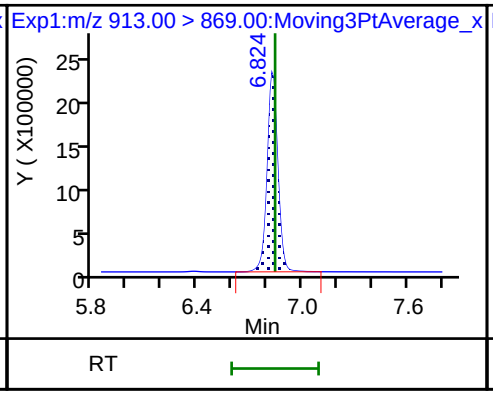
63 Perfluorohexadecanoic acid



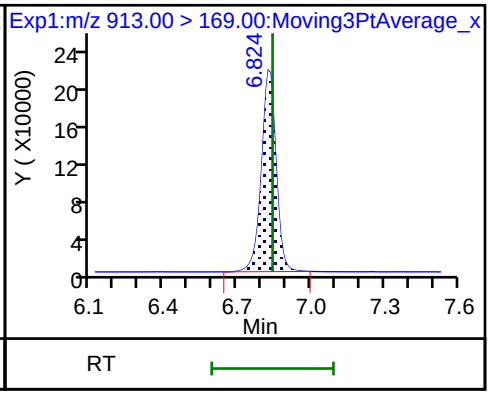
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

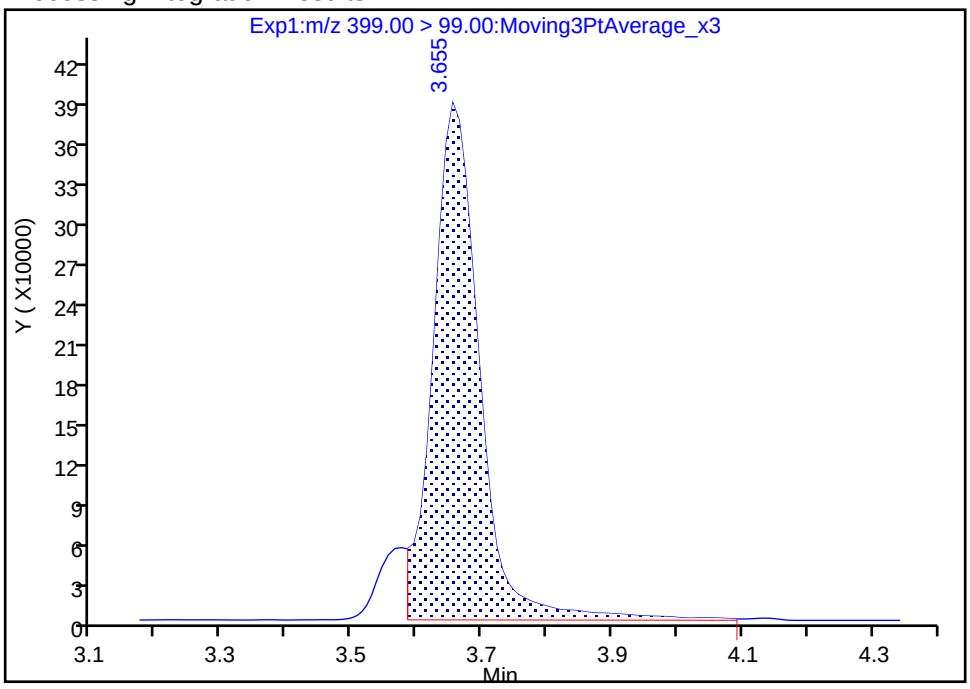
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_070.d
Injection Date: 10-Sep-2020 19:51:24 Instrument ID: A13
Lims ID: CCV L5
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 53 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

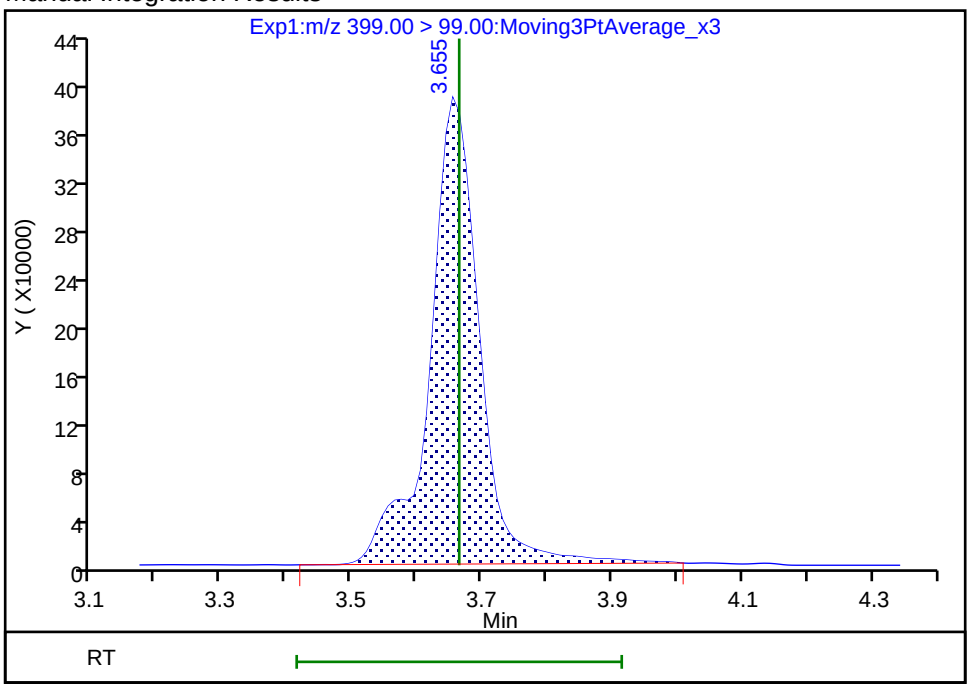
Processing Integration Results

RT: 3.65
Area: 1905520
Amount: 2.119246
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 2031678
Amount: 2.119246
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:58:07
Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins TestAmerica, Sacramento

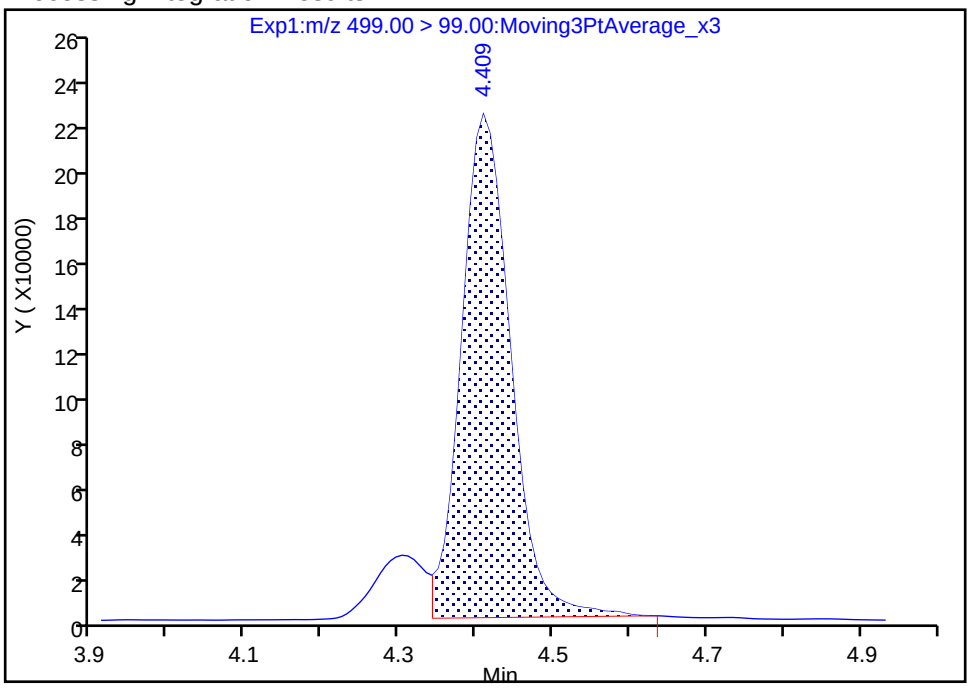
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_070.d
Injection Date: 10-Sep-2020 19:51:24 Instrument ID: A13
Lims ID: CCV L5
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 53 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

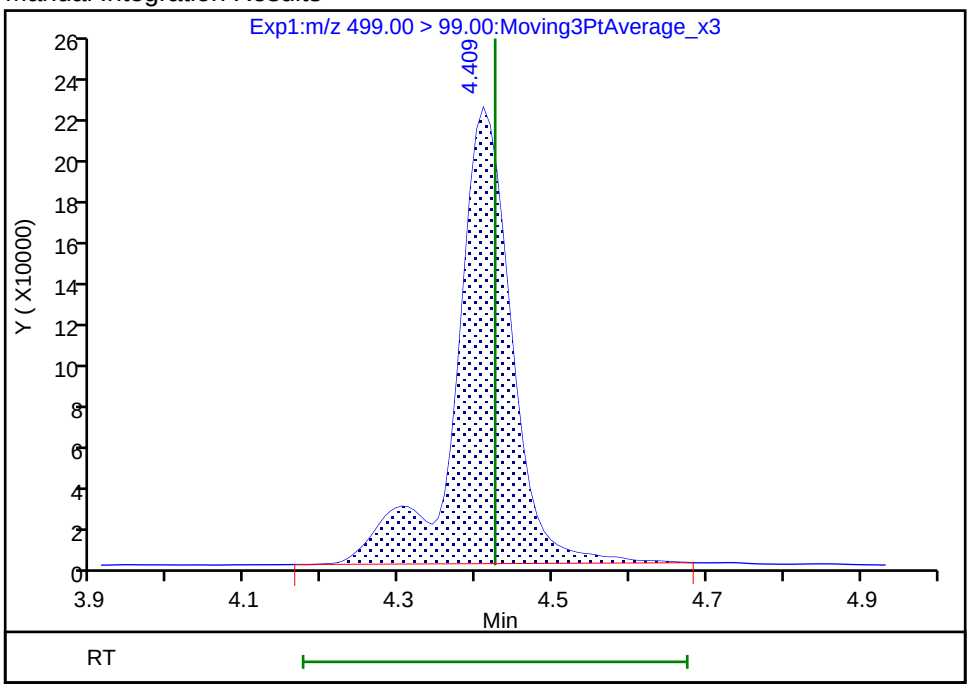
Processing Integration Results

RT: 4.41
Area: 974777
Amount: 2.425636
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 1112579
Amount: 2.425636
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 10:58:16
Audit Action: Manually Integrated Audit Reason: Isomers

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-411143/22 Calibration Date: 09/10/2020 21:16

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_079.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.7433	0.8243		1.11	1.00	10.9	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.028	1.084		1.06	1.00	5.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.9776	1.055		0.954	0.884	7.9	50.0
4:2 FTS	AveID	3.243	3.574		1.03	0.934	10.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	0.9294	0.9807		1.06	1.00	5.5	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	0.7896	0.8997		1.07	0.938	14.0	50.0
HFPO-DA (GenX)	AveID	0.2972	0.3133		1.05	1.00	5.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.011	1.097		1.09	1.00	8.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.112	1.123		0.919	0.910	1.0	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	5.136	5.915		1.09	0.942	15.2	50.0
6:2 FTS	AveID	2.407	2.493		0.982	0.948	3.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.139	1.273		1.07	0.952	11.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.023	1.051		1.03	1.00	2.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.038	1.140		1.02	0.928	9.8	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9494	1.010		1.07	1.00	6.4	40.0
F-53B Major	AveID	2.501	2.837		1.06	0.932	13.4	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9383	0.9837		1.05	1.00	4.8	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7747	0.9087		1.13	0.960	17.3	50.0
8:2 FTS	AveID	2.472	2.671		1.04	0.958	8.1	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.8964	0.9066		1.01	1.00	1.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8055	0.8546		1.06	1.00	6.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6588	0.7132		1.04	0.964	8.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.6615	0.6457		0.977	1.00	-2.4	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.7741	0.8105		1.05	1.00	4.7	40.0
NMeFOSE	AveID	1.065	1.129		1.06	1.00	6.1	40.0
NMeFOSA	AveID	0.9832	1.155		1.18	1.00	17.5	50.0
F-53B Minor	AveID	4.317	5.330		1.16	0.942	23.5	50.0
NEtFOSE	AveID	1.035	1.069		1.03	1.00	3.2	40.0
NEtFOSA	AveID	1.062	1.166		1.10	1.00	9.8	40.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9122	0.9732		1.07	1.01	6.7	40.0
10:2 FTS	AveID	1.632	1.887		1.12	0.964	15.6	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2572	0.2921		1.10	0.968	13.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Lab Sample ID: CCV 320-411143/22 Calibration Date: 09/10/2020 21:16

Instrument ID: A13 Calib Start Date: 09/08/2020 18:01

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 09/08/2020 18:58

Lab File ID: 2020.09.10_A13_PFC_A_079.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	1.043		1.11	1.00	11.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.9843	1.051		1.07	1.00	6.8	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9877		1.01	1.00	1.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7306	0.8004		1.10	1.00	9.6	50.0
13C4 PFBA	Ave	0.8499	0.9335		2.75	2.50	9.8	50.0
13C5 PFPeA	Ave	0.6625	0.6786		2.56	2.50	2.4	50.0
13C3 PFBS	Ave	0.8317	0.9567		2.67	2.33	15.0	50.0
M2-4:2 FTS	Ave	0.2037	0.1871		2.14	2.34	-8.2	50.0
13C2 PFHxA	Ave	0.8183	0.8936		2.73	2.50	9.2	50.0
13C3 HFPO-DA	Ave	0.5866	0.6232		2.66	2.50	6.2	50.0
13C4 PFHpA	Ave	0.8058	0.8406		2.61	2.50	4.3	50.0
18O2 PFHxS	Ave	0.5449	0.6173		2.68	2.37	13.3	50.0
M2-6:2 FTS	Ave	0.2349	0.2255		2.28	2.38	-4.0	50.0
13C4 PFOA	Ave	0.9849	0.9873		2.51	2.50	0.2	50.0
13C4 PFOS	Ave	0.3888	0.4199		2.58	2.39	8.0	50.0
13C5 PFNA	Ave	0.9099	0.9579		2.63	2.50	5.3	50.0
13C8 FOSA	Ave	0.5585	0.6006		2.69	2.50	7.5	50.0
13C2 PFDA	Ave	1.102	1.156		2.62	2.50	4.9	50.0
M2-8:2 FTS	Ave	0.3107	0.2989		2.30	2.40	-3.8	50.0
d3-NMeFOSAA	Ave	0.5682	0.5366		2.36	2.50	-5.6	50.0
13C2 PFUnA	Ave	1.078	1.080		2.50	2.50	0.2	50.0
d5-NEtFOSAA	Ave	0.5501	0.5404		2.46	2.50	-1.8	50.0
d7-N-MeFOSE-M	Ave	0.1398	0.1321		11.8	12.5	-5.5	50.0
d-N-MeFOSA-M	Ave	0.2628	0.2656		2.53	2.50	1.0	50.0
d9-N-EtFOSE-M	Ave	0.1640	0.1499		11.4	12.5	-8.6	50.0
d-N-EtFOSA-M	Ave	0.2510	0.2552		2.54	2.50	1.7	50.0
13C2 PFDoA	Ave	1.160	1.119		2.41	2.50	-3.6	50.0
13C2 PFTeDA	Ave	1.146	1.028		2.24	2.50	-10.3	50.0
13C2 PFHxDA	Ave	1.193	1.100		2.31	2.50	-7.7	50.0
13C8 PFOA	Ave	0.8908	0.8395		2.31	2.45	-5.8	50.0
13C8 PFOS	Ave	0.2076	0.2264		2.61	2.39	9.1	50.0

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_079.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 10-Sep-2020 21:16:05 ALS Bottle#: 52 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A13
Sublist: chrom-PFAS_A13*sub3

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 12:13:20 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 12:13:20
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.475	0.0	0.611	9329681	2.75		110	9750	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.482	-0.007	1.000	3076028	1.11		111	239	
D 4 13C5 PFPeA										
267.90 > 223.00	2.867	2.867	-0.001	0.708	6781686	2.56		102	6223	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.867	-0.001	1.000	2940178	1.05		105	147	
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.716	8891917	2.67		115	27150	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.901	2.913	-0.012	1.000	3567687	0.9542	Target=2.18	108	3844	
298.90 > 99.00	2.901	2.913	-0.012	1.000	1664510		2.14(1.09-3.26)		607	
7 4:2 FTS										
327.00 > 307.00	3.215	3.215	0.0	1.003	2496234	1.03		110	3413	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.204	3.215	-0.011	0.791	1746130	2.14		91.8	768	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.247	3.258	-0.011	1.000	3503165	1.06	Target=11.68	106	194	
313.00 > 119.00	3.247	3.258	-0.011	1.000	285480		12.27(5.84-17.52)		110	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.802	8930145	2.73		109	16660	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.268	3.279	-0.011	1.126	3227669	1.07	Target=2.56	114	3788	
349.00 > 99.00	3.268	3.279	-0.011	1.126	1242449		2.60(1.28-3.84)		487	
12 HPFO-DA										
285.00 > 169.00	3.371	3.380	-0.009	1.000	780539	1.05		105	2236	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.371	3.380	-0.009	0.832	6228121	2.66		106	6863	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	5836303	2.68		113	4142	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.655	3.665	-0.010	1.000	3685829	1.09	Target=3.85	109	304	
363.00 > 169.00	3.655	3.665	-0.010	1.000	954993		3.86(1.92-5.77)		409	
18 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.655	3.665	-0.010	1.000	2521982	0.9187	Target=3.25	101	375	
399.00 > 99.00	3.655	3.665	-0.010	1.000	805369		3.13(1.62-4.87)		204	
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	8401312	2.61		104	6998	
19 DONA										
377.00 > 251.00	3.704	3.713	-0.009	0.839	9351889	1.08	Target=2.76	115	5317	
377.00 > 85.00	3.704	3.713	-0.009	0.839	3278430		2.85(1.38-4.14)		3272	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.026	4.042	-0.016	0.994	2140866	2.28		96.0	2081	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	1.000	2130097	0.9818		104	1078	
22 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	4.042	4.051	-0.009	0.915	2034806	1.06	Target=4.29	112	1027	
449.00 > 99.00	4.042	4.051	-0.009	0.915	495633		4.11(2.15-6.44)		291	M
$ 23 13C8 PFOA										
421.00 > 376.00	4.042	4.051	-0.009	0.998	8213768	2.31		94.2	4629	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.000	9867386	2.51		100	11473	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.051	4.059	-0.008	1.000	4154114	1.03	Target=2.95	103	594	
413.00 > 169.00	4.051	4.059	-0.008	1.000	1359343		3.06(1.47-4.42)		913	
* 25 13C2 PFOA										
415.00 > 370.00	4.051	4.059	-0.008		9993829	2.50			7814	
$ 27 13C8 PFOS										
507.00 > 99.00	4.409	4.416	-0.007	1.089	2162683	2.61		109	1487	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.409	4.425	-0.016	0.998	1775189	1.02	Target=4.28	110	627	
499.00 > 99.00	4.418	4.425	-0.007	1.000	439413		4.04(2.14-6.41)		378	M
D 29 13C4 PFOS										
503.00 > 80.00	4.418	4.425	-0.007	1.091	4011329	2.58		108	4002	
30 Perfluorononanoic acid										
463.00 > 419.00	4.426	4.433	-0.007	1.000	3876297	1.07	Target=8.00	106	422	
463.00 > 169.00	4.426	4.433	-0.007	1.000	484504		8.00(4.00-12.01)		612	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.093	9572717	2.63		105	7784	
32 9ClFOS										
531.00 > 351.00	4.615	4.620	-0.005	1.045	4438245	1.06		113	4292	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.169	6002130	2.69		108	4990	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	2361721	1.05		105	3571	
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.760	4.766	-0.006	1.077	1464145	1.13	Target=2.15	117	2169	
549.00 > 99.00	4.760	4.766	-0.006	1.077	722612		2.03(1.08-3.23)		812	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	11554869	2.62		105	6656	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.786	4.793	-0.007	1.000	4190132	1.01	Target=10.44	101	1318	
513.00 > 169.00	4.786	4.793	-0.007	1.000	404334		10.36(5.22-15.65)		292	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	2862120	2.30		96.2	2417	
39 8:2 FTS										
527.00 > 507.00	4.786	4.802	-0.016	1.000	3058069	1.04		108	4883	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.952	4.959	-0.007	1.223	5362963	2.36		94.4	2281	
41 NMeFOSAA										
570.00 > 419.00	4.952	4.959	-0.007	1.000	1833367	1.06		106	340	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.078	5.084	-0.006	1.149	1153891	1.04	Target=2.36	108	1108	
599.00 > 99.00	5.078	5.084	-0.006	1.149	507729		2.27(1.18-3.54)		904	
D 44 13C2 PFUnA										
565.00 > 520.00	5.107	5.113	-0.006	1.261	10793063	2.50		100	3831	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.107	5.113	-0.006	1.000	2790524	0.9771	Target=8.67	97.6	678	
563.00 > 169.00	5.107	5.113	-0.006	1.000	300512		9.29(4.34-13.01)		592	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.116	5.123	-0.007	1.263	5400896	2.46		98.2	1087	
48 NEtFOSA										
584.00 > 419.00	5.116	5.132	-0.016	1.000	1751019	1.05		105	2336	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.194	5.190	0.004	1.282	6603154	11.8		94.5	2418	
47 N-MeFOSE-M										
616.00 > 59.00	5.205	5.200	0.005	1.002	596459	1.06		106	603	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.216	5.212	0.004	1.288	2653919	2.53		101	40.1	
50 NMeFOSA										
512.00 > 169.00	5.216	5.223	-0.007	1.000	1226113	1.17		117	220	
51 11ClFOS										
631.00 > 451.00	5.249	5.255	-0.006	1.188	8427654	1.16		123	3302	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.362	5.359	0.003	1.324	7489742	11.4		91.4	4641	
53 N-EtFOSE-M										
630.00 > 59.00	5.371	5.376	-0.005	1.002	640505	1.03		103	903	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.388	5.385	0.003	1.330	2550508	2.54		102	201	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
55 N-EtFOSA-M										
526.00 > 169.00	5.396	5.393	0.003	1.002	1189944	1.10		110	198	
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.332	11180580	2.41		96.4	16050	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.404	5.409	-0.005	1.002	4378450	1.07	Target=9.05	107	1363	
613.00 > 169.00	5.404	5.409	-0.005	1.002	473662		9.24(4.52-13.57)		1198	
58 10:2 FTS										
627.00 > 607.00	5.412	5.426	-0.014	1.131	2174144	1.11		116	3479	
59 PFDoS										
699.00 > 80.00	5.627	5.642	-0.015	1.274	474520	1.10	Target=0.57	114	1729	
699.00 > 99.00	5.627	5.642	-0.015	1.274	773710		0.61(0.29-0.86)		1316	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.671	5.676	-0.005	1.051	4666293	1.11	Target=7.06	111	1467	
663.00 > 169.00	5.662	5.676	-0.014	1.049	637788		7.32(3.53-10.59)		1506	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.911	5.920	-0.010	1.459	10276933	2.24		89.7	7263	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.911	5.920	-0.010	1.000	4323821	1.07	Target=11.23	107	2046	
713.00 > 219.00	5.911	5.920	-0.010	1.000	403002		10.73(5.62-16.85)		1639	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.379	6.393	-0.014	1.000	4344384	1.01	Target=9.45	101	1859	
813.00 > 169.00	6.379	6.393	-0.014	1.000	459299		9.46(4.72-14.17)		1483	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.379	6.393	-0.014	1.575	10996473	2.31		92.3	5184	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.833	6.842	-0.009	1.071	3520615	1.10	Target=11.13	110	1245	
913.00 > 169.00	6.824	6.842	-0.018	1.070	339600		10.37(5.56-16.69)		1275	

QC Flag Legend

Review Flags

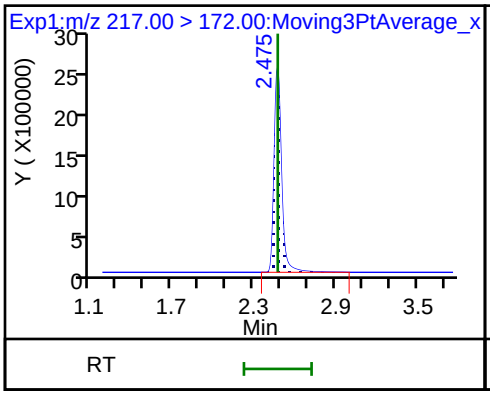
M - Manually Integrated

Reagents:

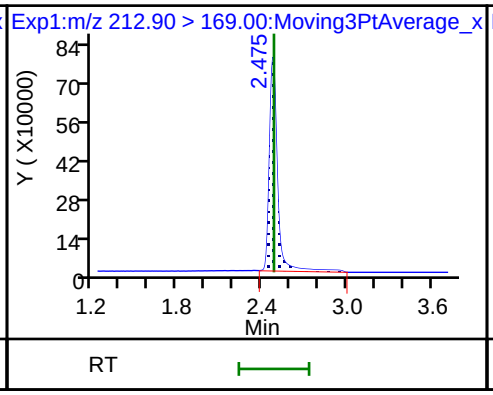
LCPFC_LL4_00030 Amount Added: 1.00 Units: mL

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_079.d
Injection Date: 10-Sep-2020 21:16:05 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL

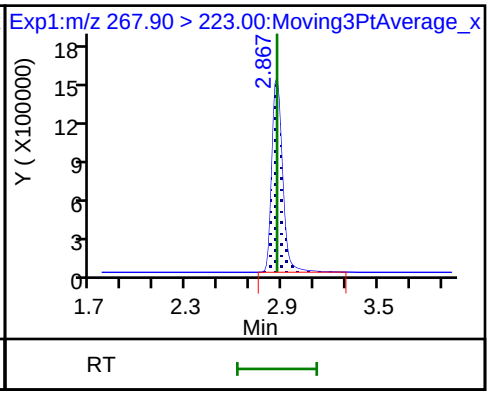
D 1 13C4 PFBA



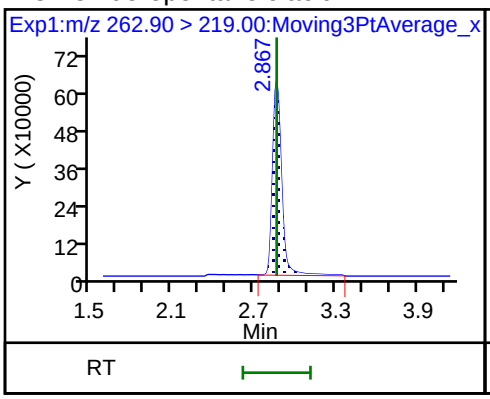
2 Perfluorobutanoic acid



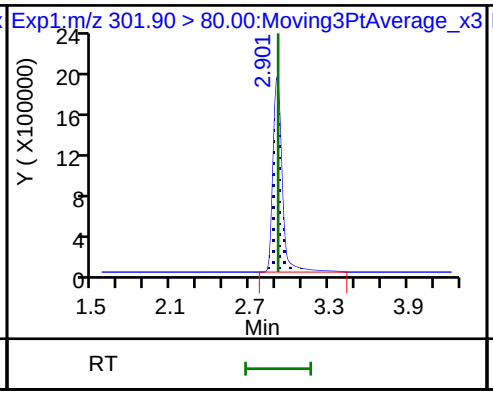
D 4 13C5 PFPeA



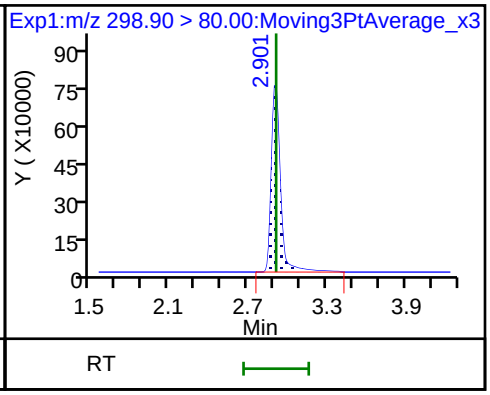
5 Perfluoropentanoic acid



D 14 13C3 PFBS



6 Perfluorobutanesulfonic acid



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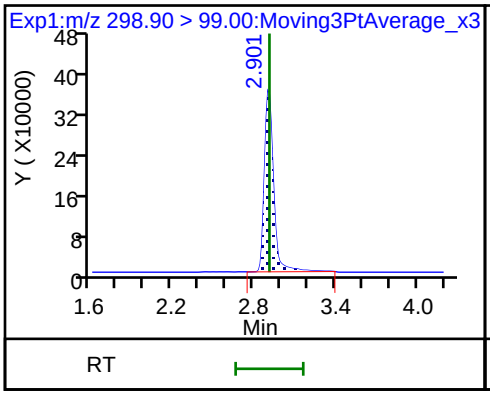
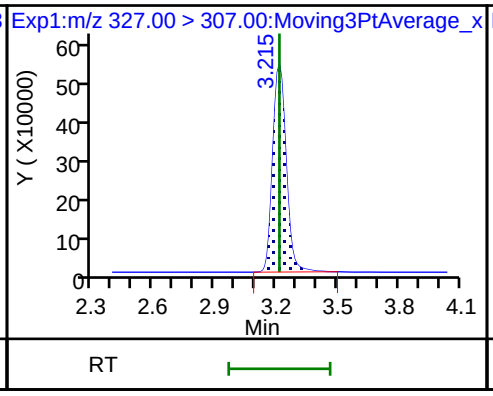
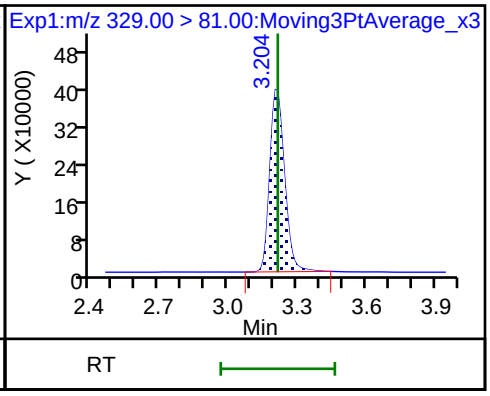


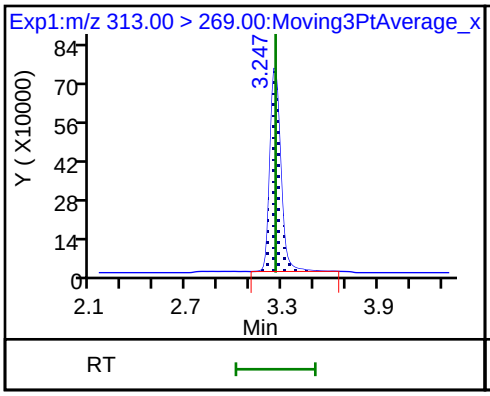
7 4:2 FTS



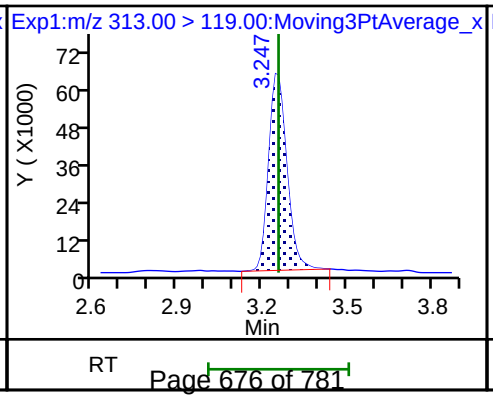
D 8 M2-4:2 FTS



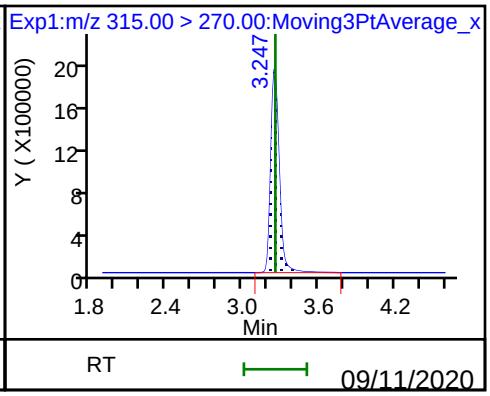
10 Perfluorohexanoic acid



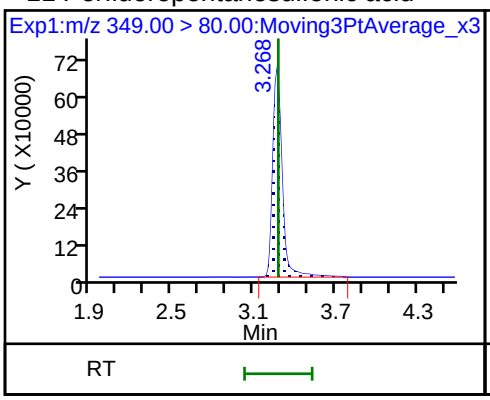
10 Perfluorohexanoic acid



D 9 13C2 PFHxA



11 Perfluoropentanesulfonic acid



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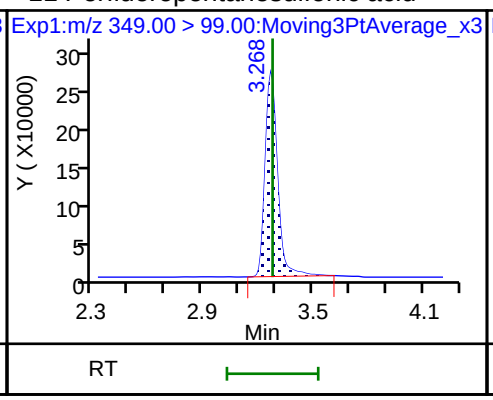
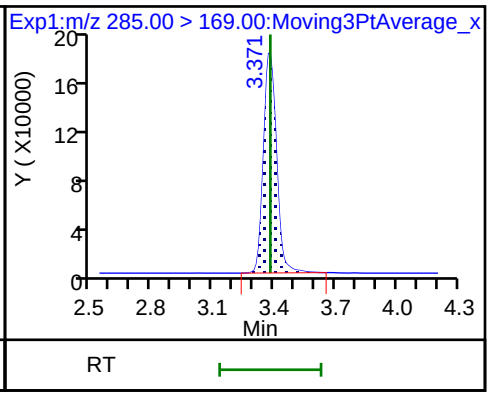
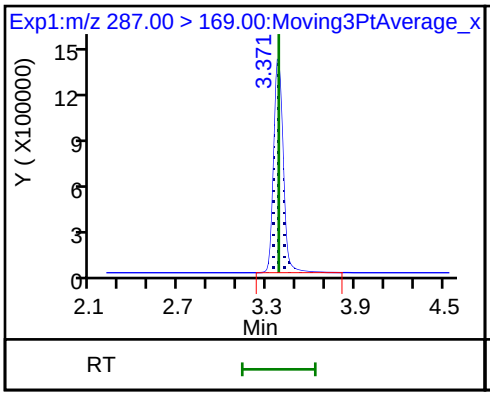


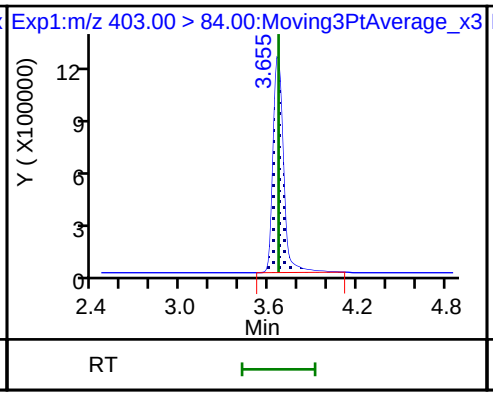
12 HPFO-DA



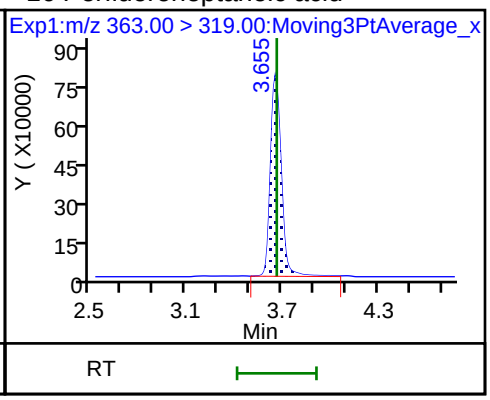
D 13 13C3 HFPO-DA



D 17 18O2 PFHxS



16 Perfluoroheptanoic acid



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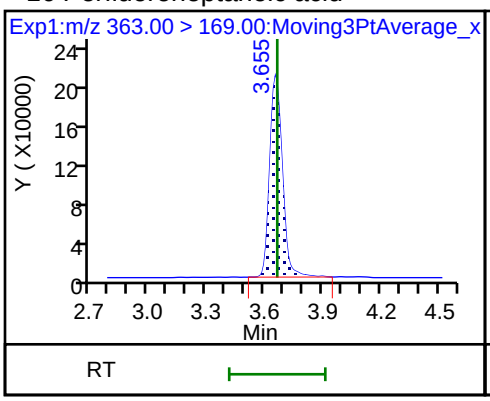
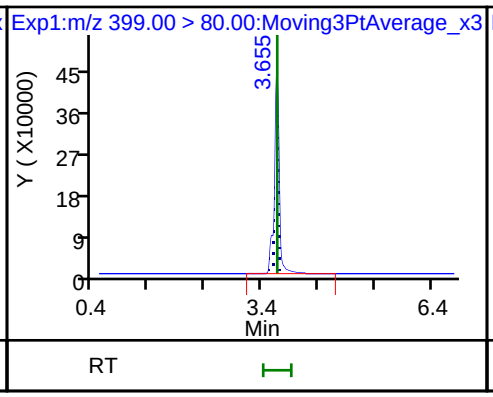


18 Perfluorohexanesulfonic acid



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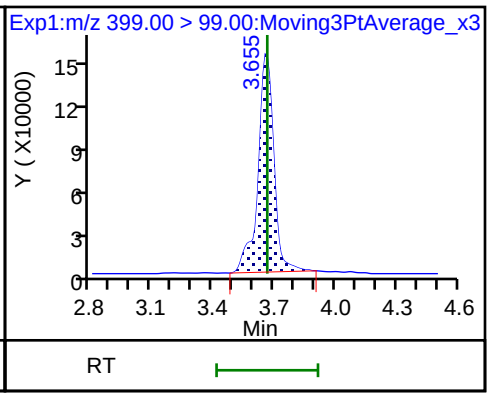
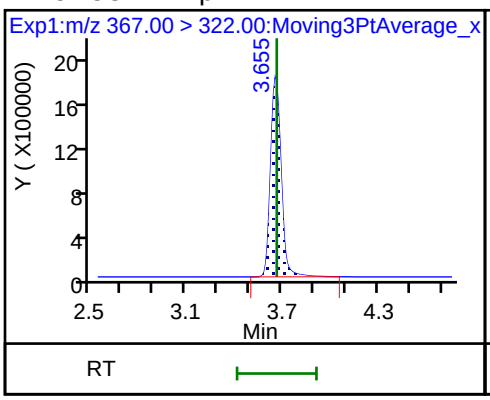
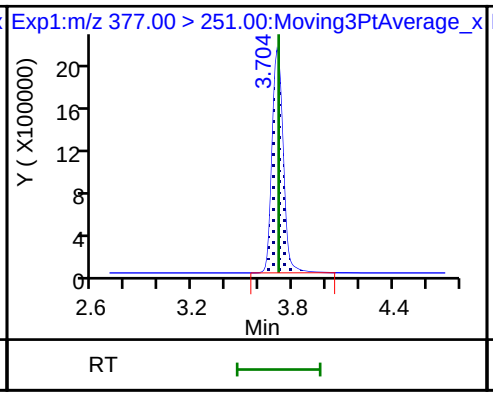


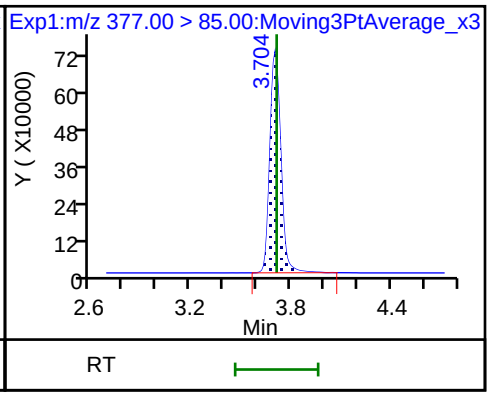
D 15 13C4 PFHpA



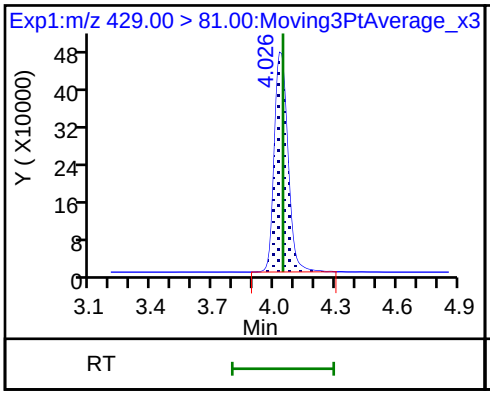
19 DONA



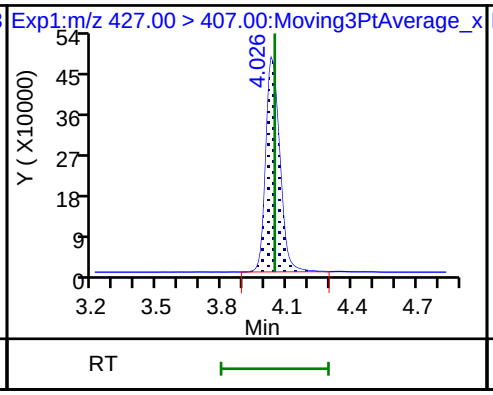
19 DONA



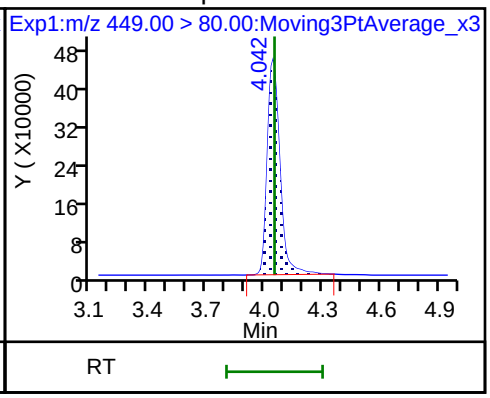
D 20 M2-6:2 FTS



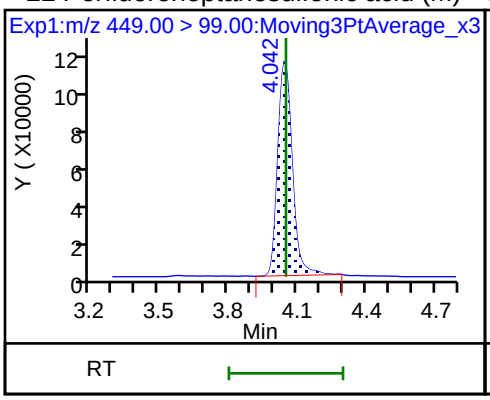
21 6:2 FTS



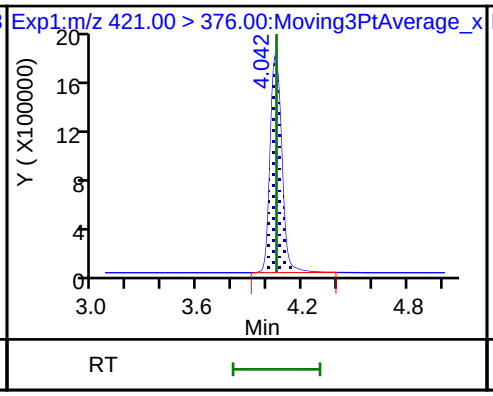
22 Perfluoroheptanesulfonic acid



22 Perfluoroheptanesulfonic acid (M)



$ 23 13C8 PFOA



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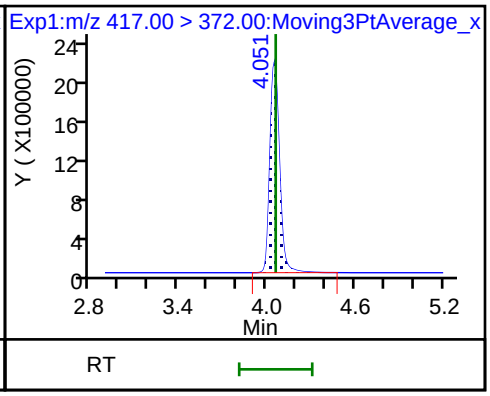
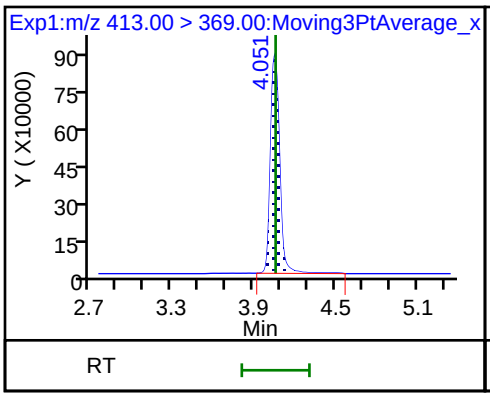
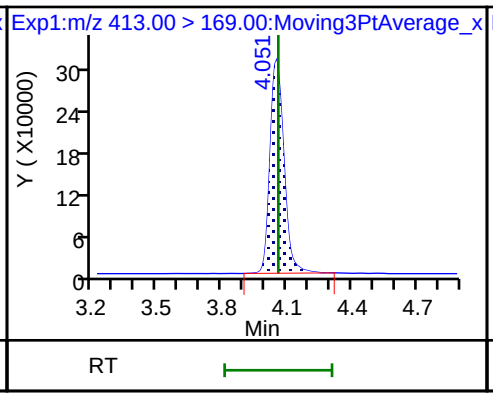


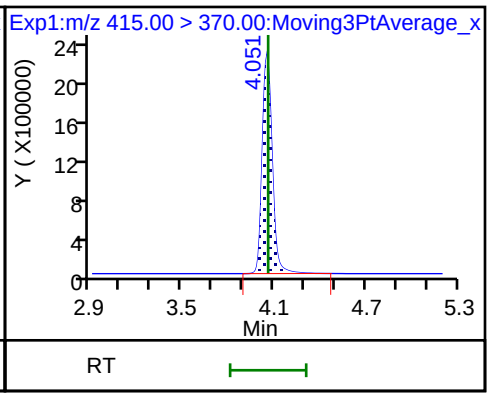
26 Perfluorooctanoic acid



26 Perfluorooctanoic acid



* 25 13C2 PFOA



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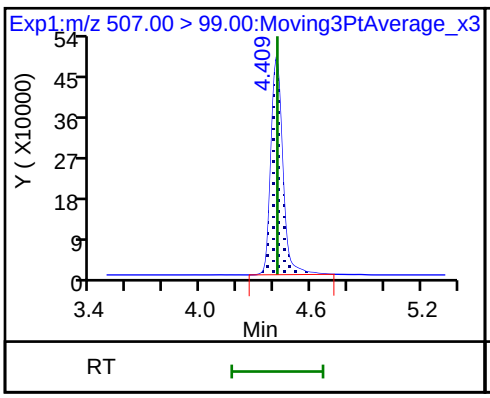
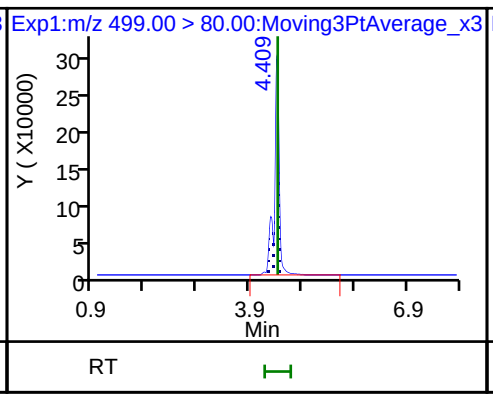
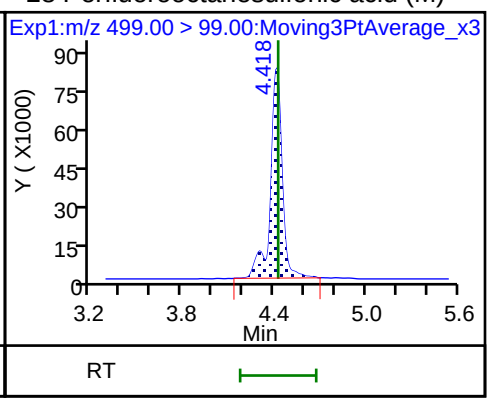


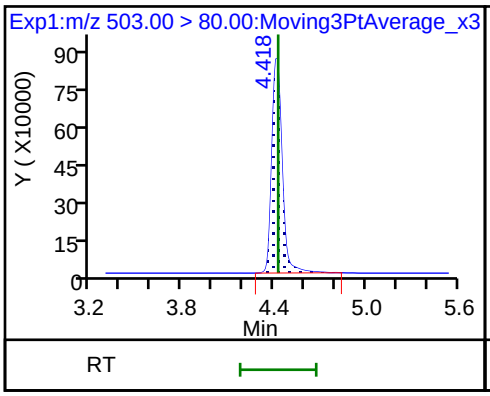
28 Perfluorooctanesulfonic acid



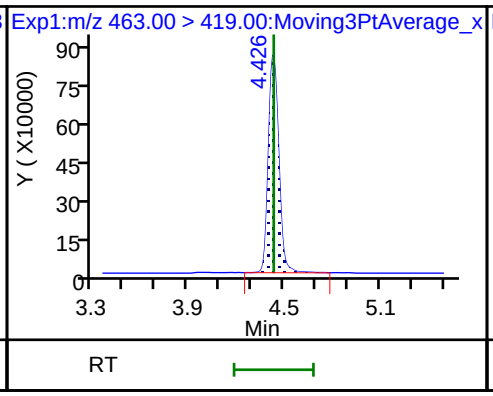
28 Perfluorooctanesulfonic acid (M)



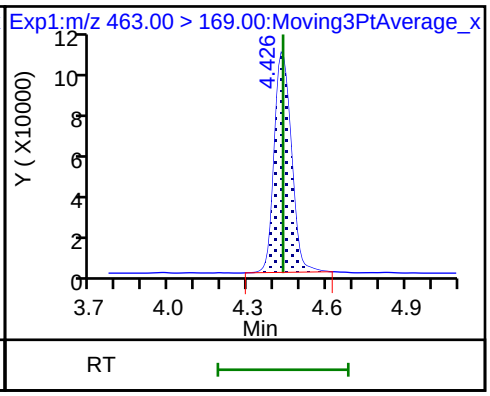
D 29 13C4 PFOS



30 Perfluorononanoic acid



30 Perfluorononanoic acid



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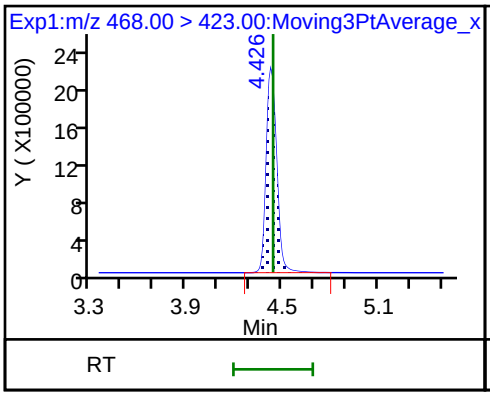
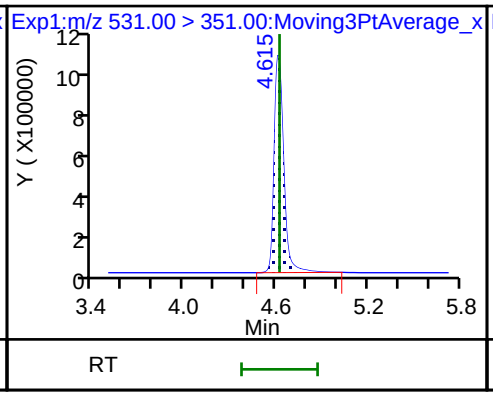
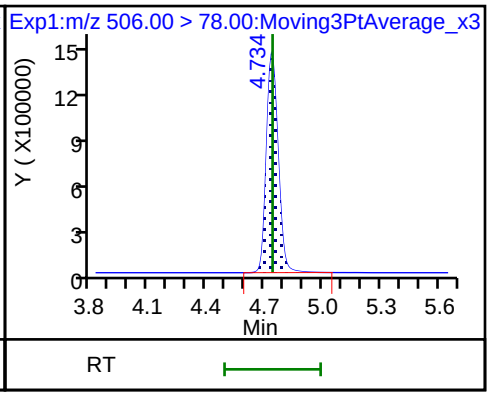


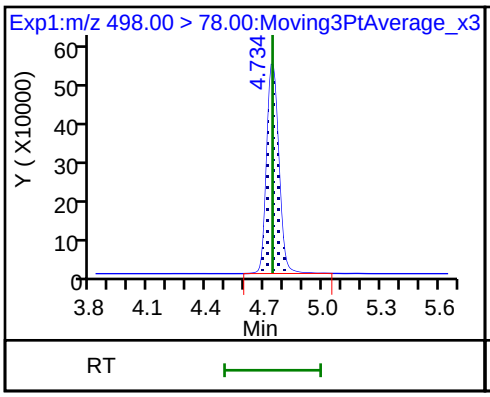
32 9ClFOS



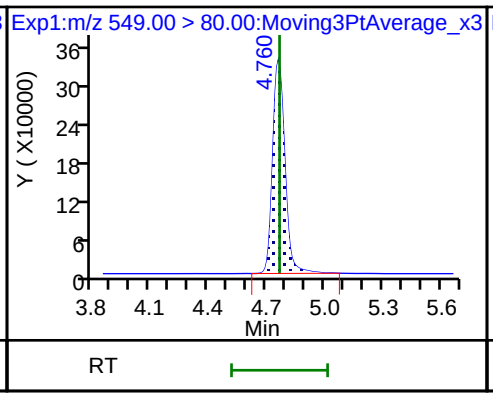
D 34 13C8 FOSA



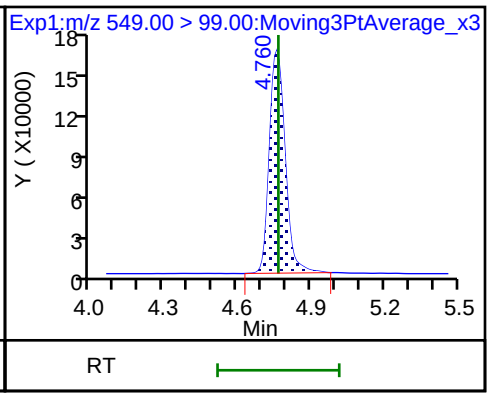
33 Perfluorooctanesulfonamide



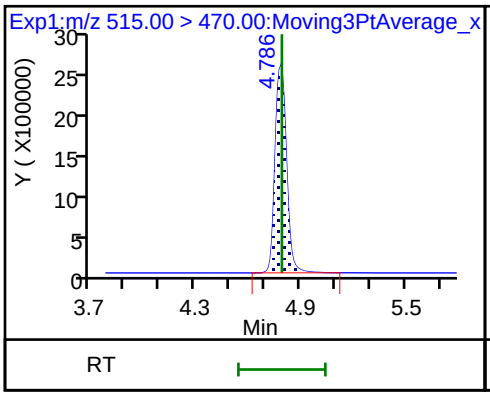
35 Perfluorononanesulfonic acid



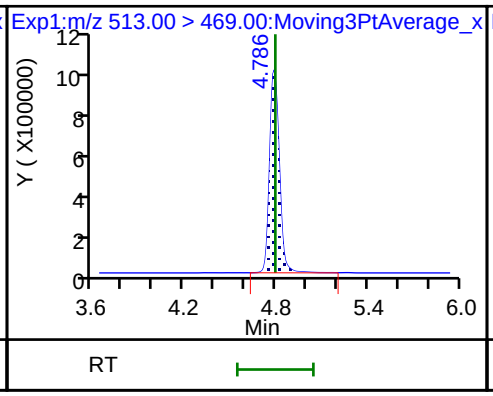
35 Perfluorononanesulfonic acid



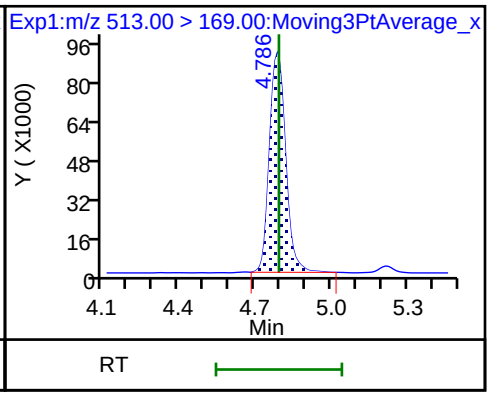
D 37 13C2 PFDA



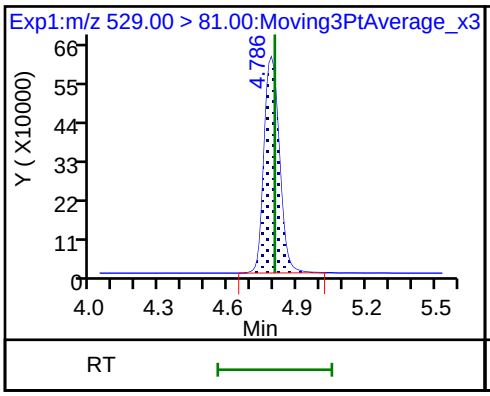
36 Perfluorodecanoic acid



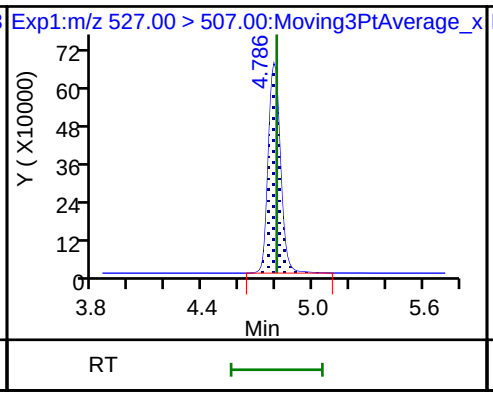
36 Perfluorodecanoic acid



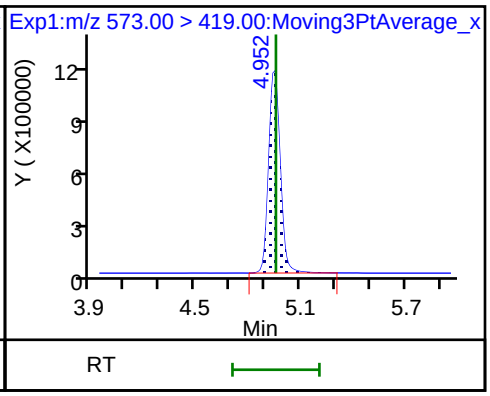
D 38 M2-8:2 FTS



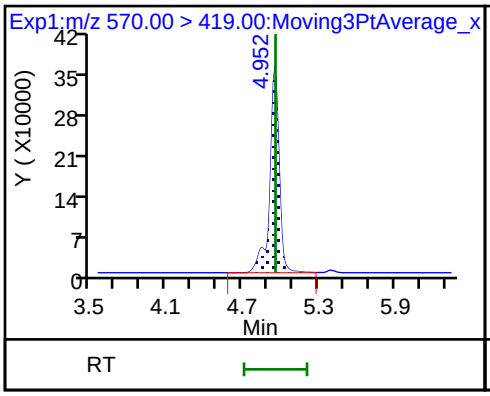
39 8:2 FTS



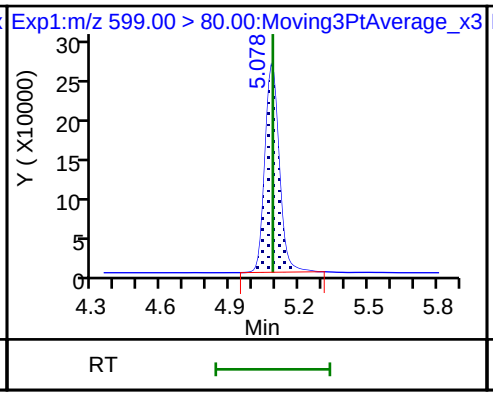
D 40 d3-NMeFOSAA



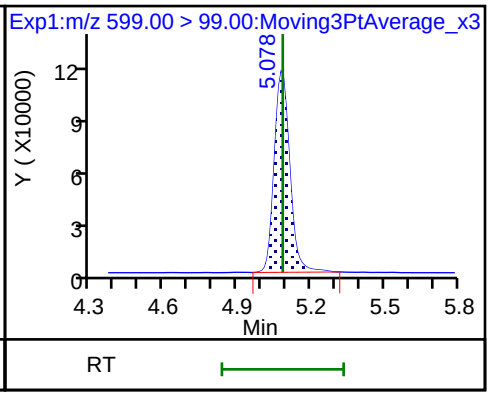
41 NMeFOSAA



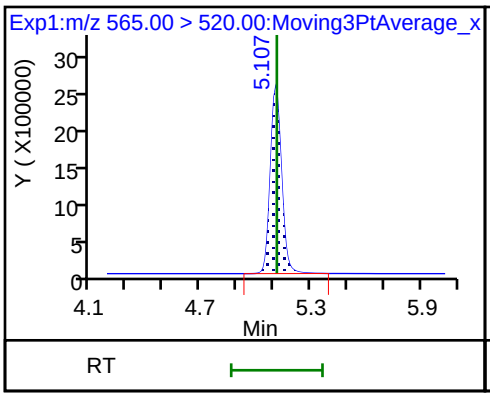
42 Perfluorodecanesulfonic acid



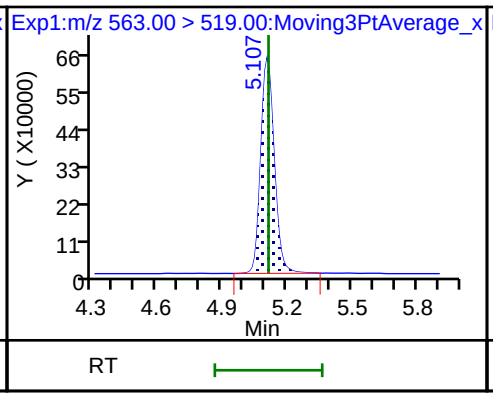
42 Perfluorodecanesulfonic acid



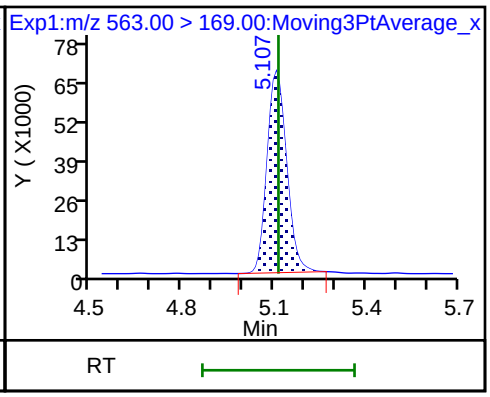
D 44 13C2 PFUnA



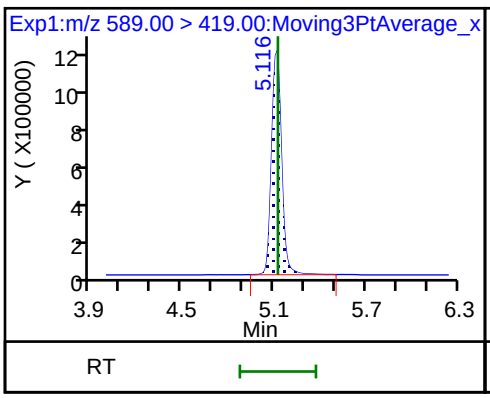
45 Perfluoroundecanoic acid



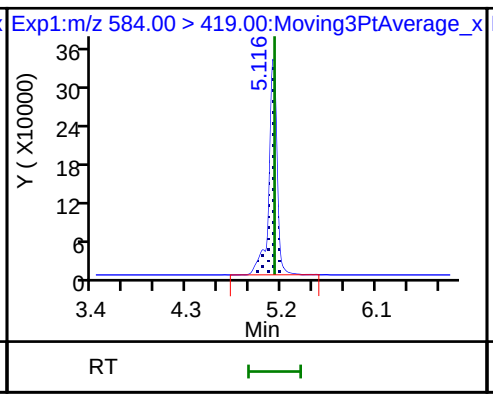
45 Perfluoroundecanoic acid



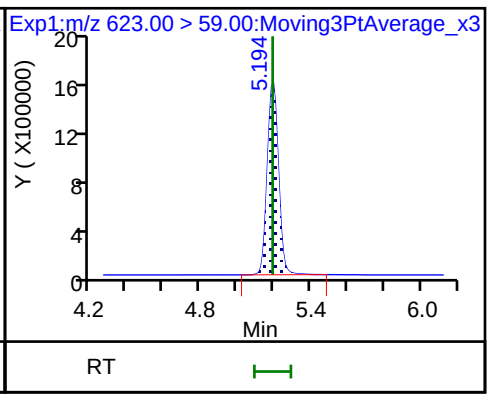
D 46 d5-NEtFOSAA



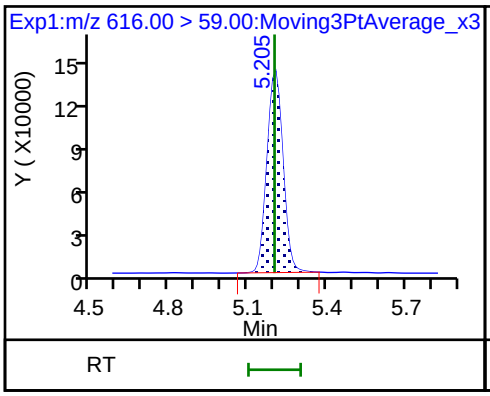
48 NEtFOSA



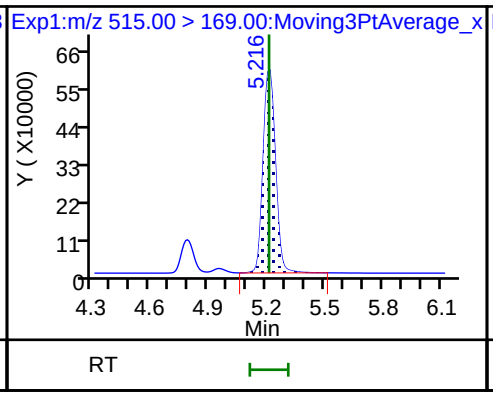
D 43 d7-N-MeFOSE-M



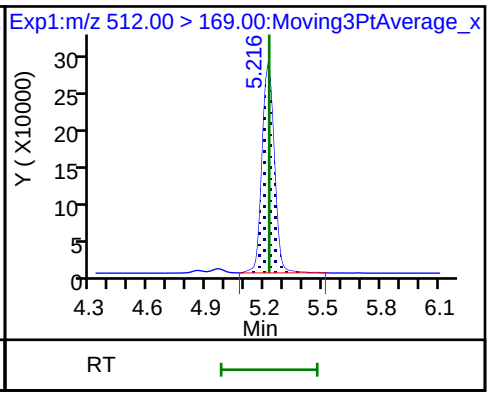
47 N-MeFOSE-M



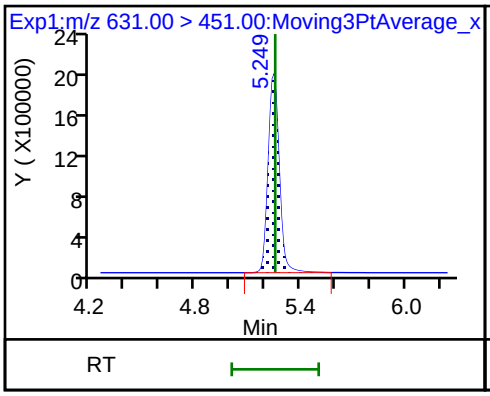
D 49 d-N-MeFOSA-M



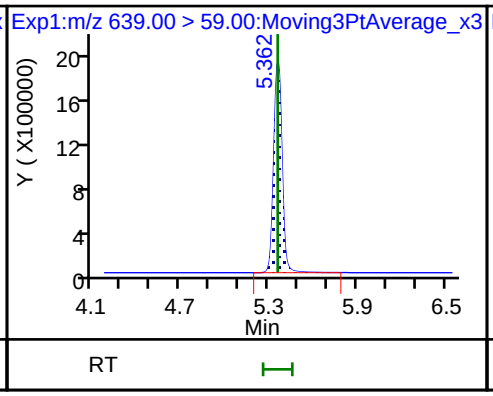
50 NMeFOSA



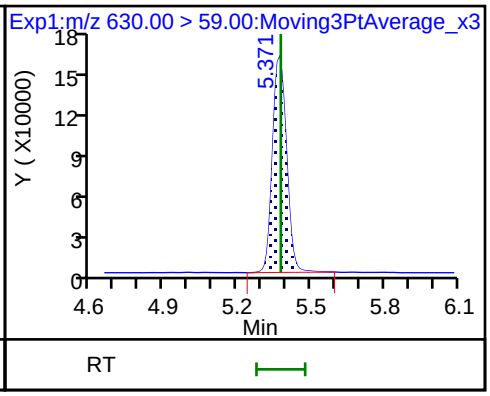
51 11ClFOS



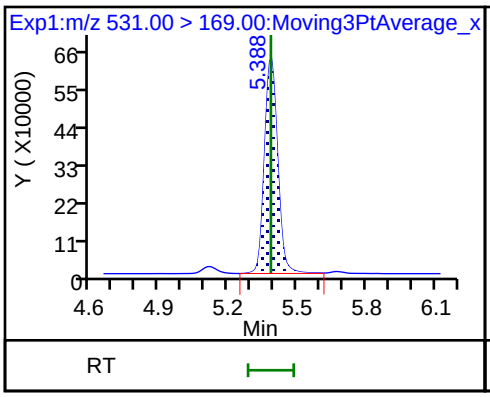
D 52 d9-N-EtFOSE-M



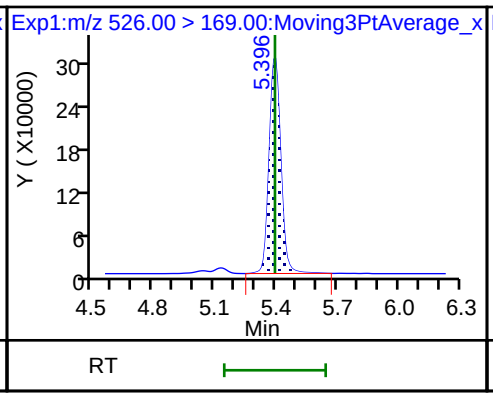
53 N-EtFOSE-M



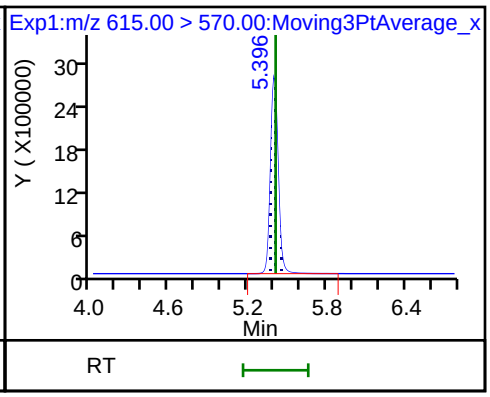
D 54 d-N-EtFOSA-M



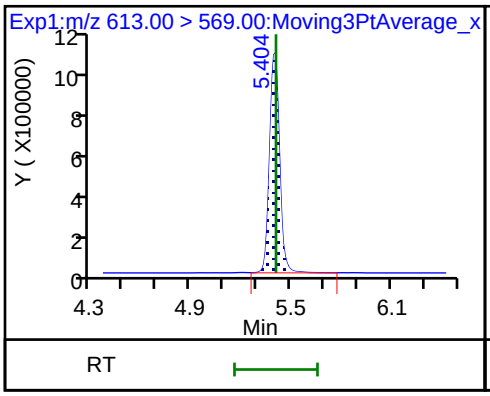
55 N-EtFOSA-M



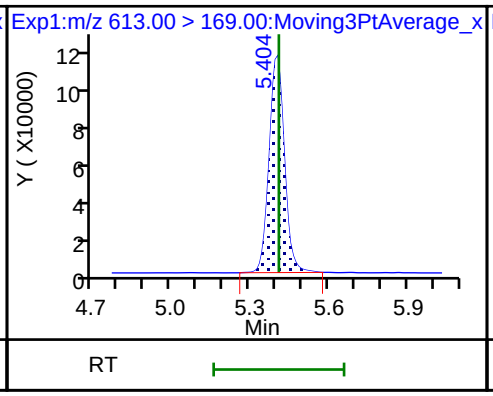
D 56 13C2 PFDoA



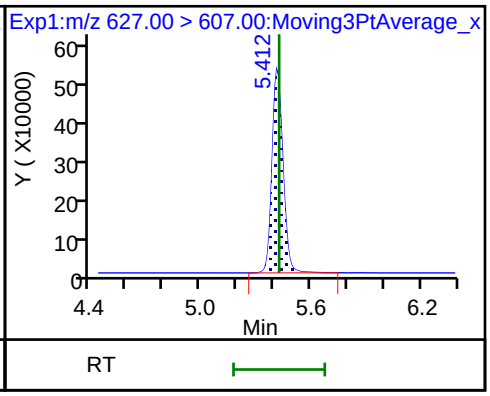
57 Perfluorododecanoic acid



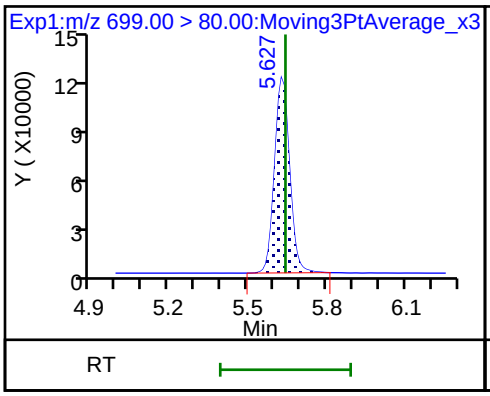
57 Perfluorododecanoic acid



58 10:2 FTS



59 PFDoS



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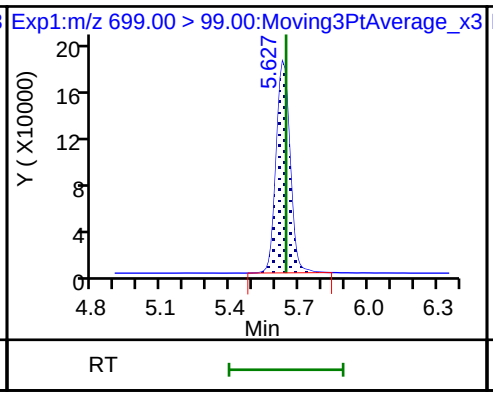
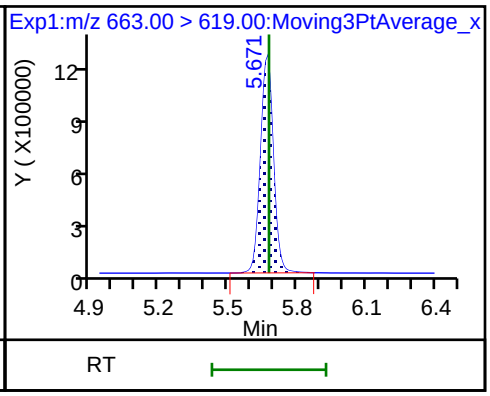
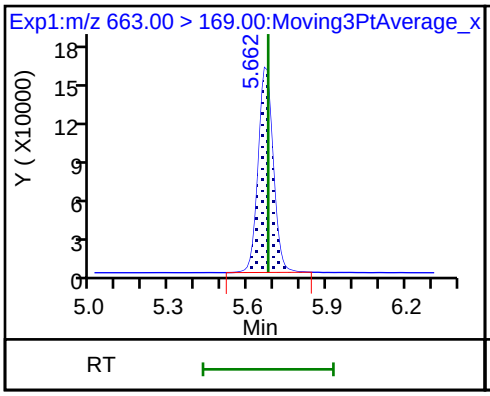


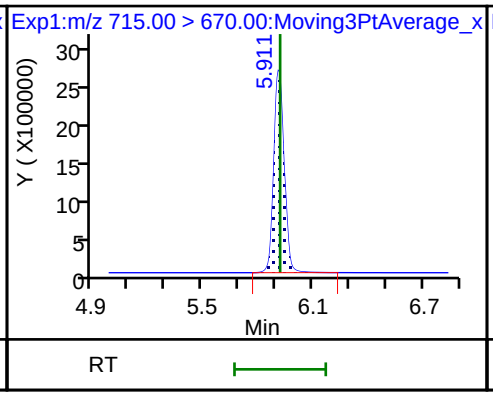
60 Perfluorotridecanoic acid



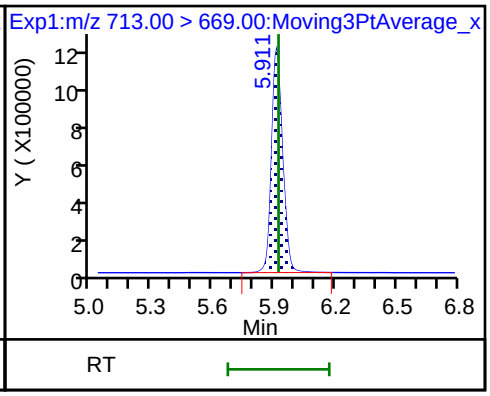
60 Perfluorotridecanoic acid



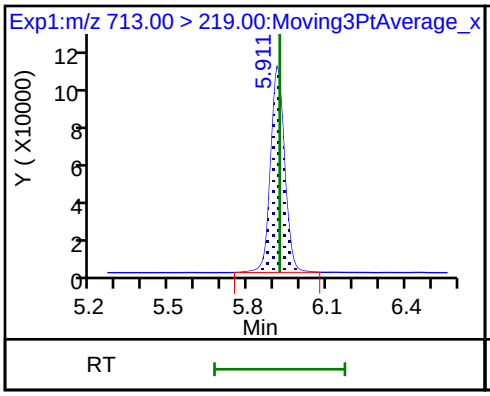
D 61 13C2 PFTeDA



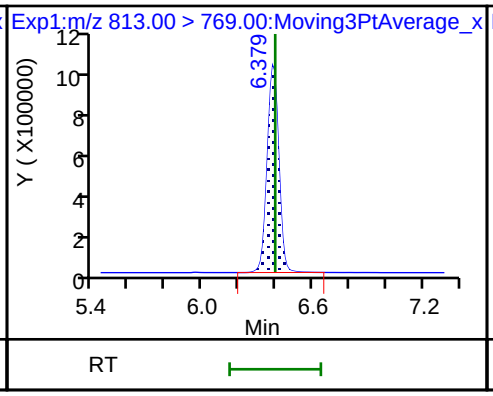
62 Perfluorotetradecanoic acid



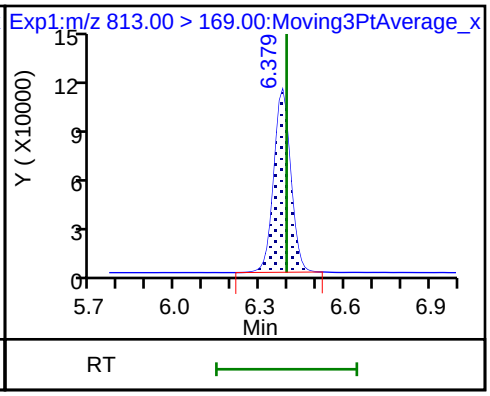
62 Perfluorotetradecanoic acid



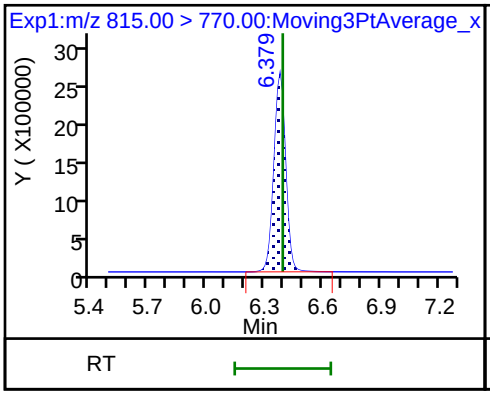
63 Perfluorohexadecanoic acid



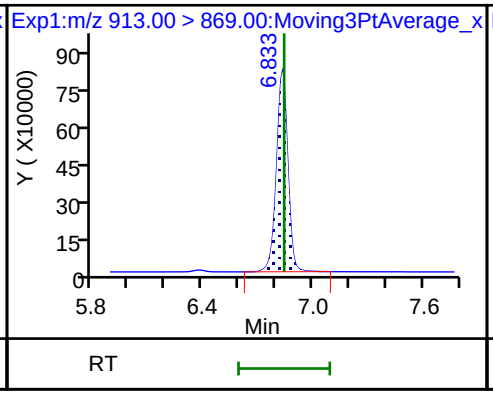
63 Perfluorohexadecanoic acid



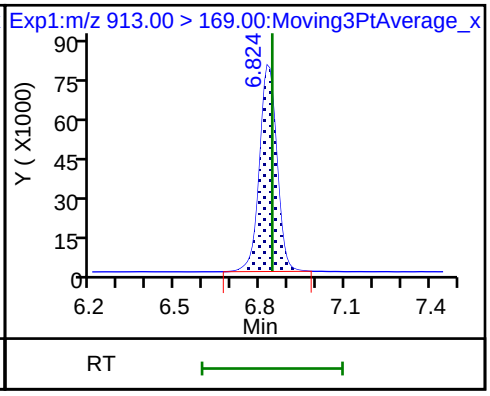
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

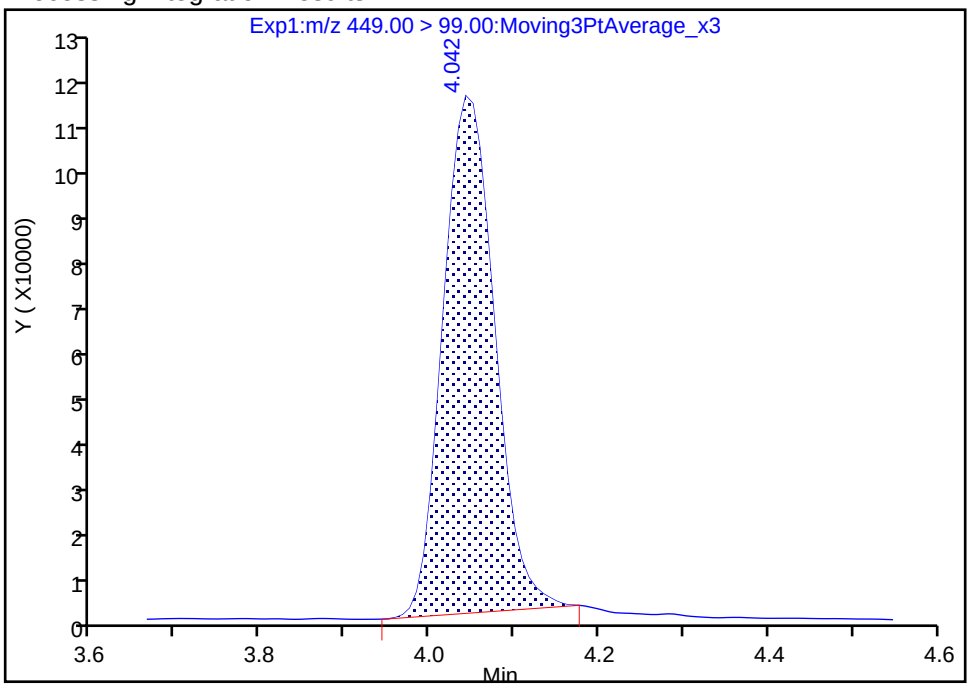
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_079.d
Injection Date: 10-Sep-2020 21:16:05 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

22 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

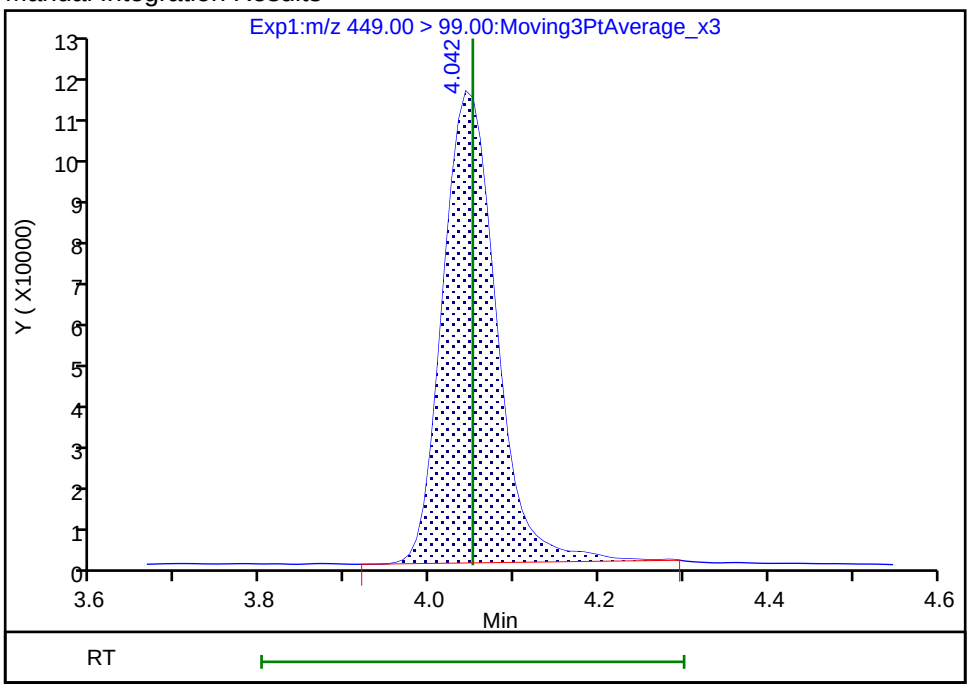
Processing Integration Results

RT: 4.04
Area: 474142
Amount: 1.064563
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 495633
Amount: 1.064563
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 12:12:01
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

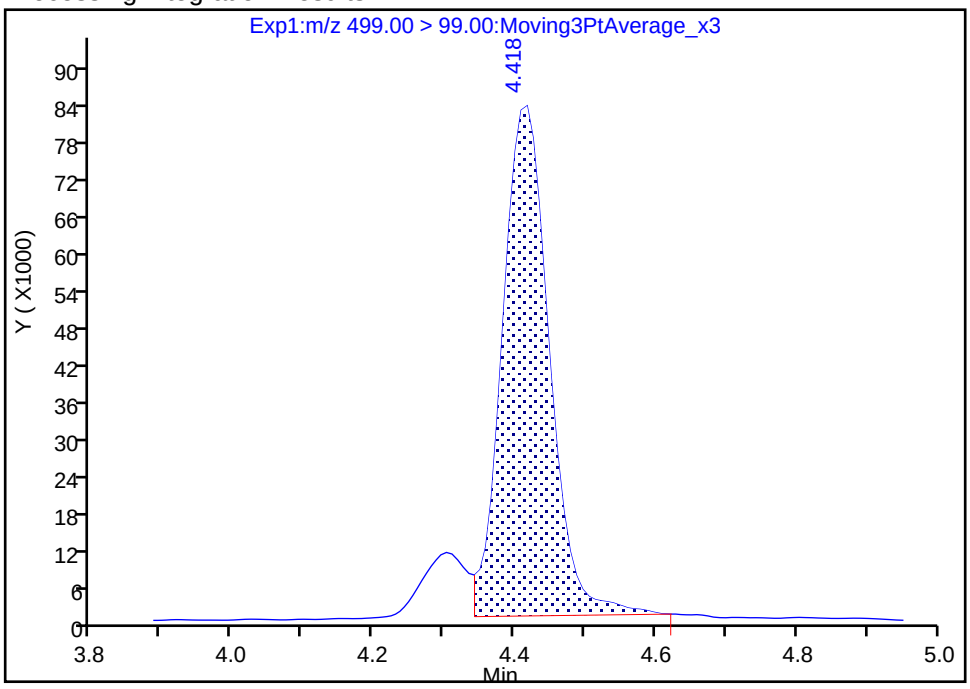
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_079.d
Injection Date: 10-Sep-2020 21:16:05 Instrument ID: A13
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 52 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

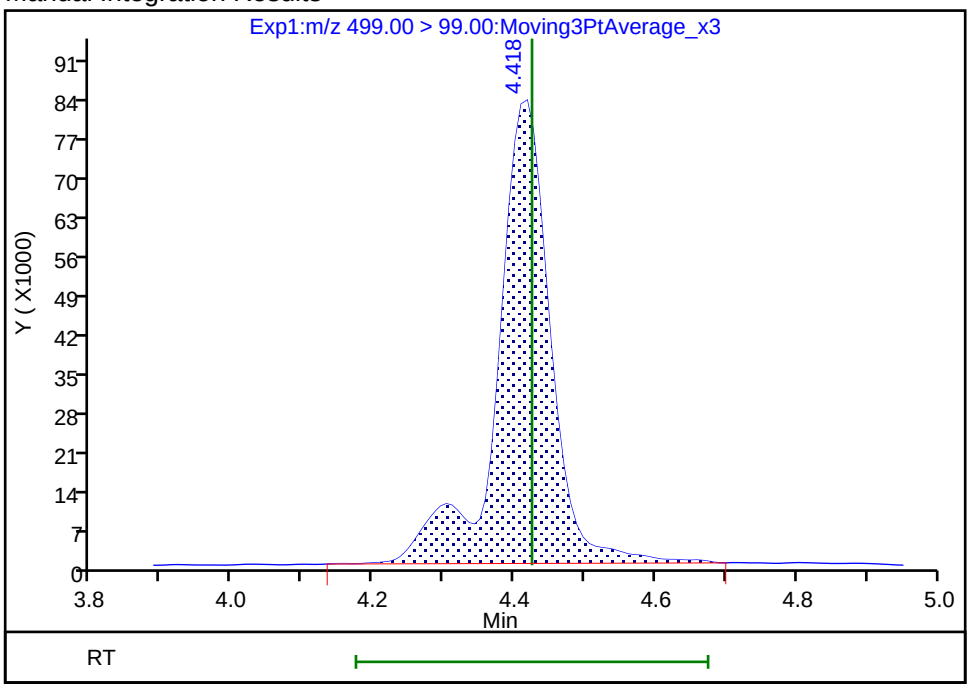
Processing Integration Results

RT: 4.42
Area: 382074
Amount: 1.018645
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 439413
Amount: 1.018645
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 12:12:08
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-410906/1-A

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_059.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 18:07

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.541	J	2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.49	U	2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	0.58	U	2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25	U	2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	0.85	U	2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	0.27	U	2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.31	U	2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.10	U	2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	0.55	U	2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.30	U	2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.339	J	2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.35	U	2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.10	U	20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	U	20.0	1.90
27619-97-2	6:2 FTS	2.00	U	20.0	2.00
39108-34-4	8:2 FTS	2.00	U	20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-410906/1-A

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_059.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 18:07

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90		25-150
STL01893	13C5 PFPeA	94		25-150
STL00993	13C2 PFHxA	93		25-150
STL01892	13C4 PFHpA	91		25-150
STL00990	13C4 PFOA	90		25-150
STL00995	13C5 PFNA	91		25-150
STL00996	13C2 PFDA	90		25-150
STL00997	13C2 PFUnA	91		25-150
STL00998	13C2 PFDoA	79		25-150
STL02116	13C2 PFTeDA	79		25-150
STL02337	13C3 PFBS	98		25-150
STL00994	18O2 PFHxS	100		25-150
STL00991	13C4 PFOS	97		25-150
STL01056	13C8 FOSA	83		25-150
STL02118	d3-NMeFOSAA	87		25-150
STL02117	d5-NEtFOSAA	90		25-150
STL02279	M2-6:2 FTS	99		25-150
STL02280	M2-8:2 FTS	106		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Lims ID: MB 320-410906/1-A
Client ID:
Sample Type: MB
Inject. Date: 10-Sep-2020 18:07:54 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-410906/1-a DUE 9/28 PFC_WATER
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:47:52 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 08:47:52
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.467	2.475	-0.008	0.609	8490568	2.26		90.3	12218	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.475	2.482	-0.007	1.003	34130	0.0135			2.6	M
D 4 13C5 PFPeA										
267.90 > 223.00	2.867	2.867	0.0	0.708	6881035	2.35		93.9	3973	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.867	2.867	0.0	1.000	24912	0.008806			1.3	
D 14 13C3 PFBS										
301.90 > 80.00	2.902	2.913	-0.011	0.716	8356408	2.27		97.6	3869	
6 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.902	2.913	-0.011	1.000	6324	0.001800	Target=2.29		5.5	M
298.90 > 99.00	2.913	2.913	0.0	1.004	2720		2.33(1.15-3.44)		1.1	
7 4:2 FTS										
327.00 > 307.00	3.204	3.215	-0.011	1.000	2984	0.000995			13.4	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.204	3.215	-0.011	0.791	2158187	2.39		102	1077	
D 9 13C2 PFHxA										
315.00 > 270.00	3.247	3.258	-0.011	0.802	8429645	2.33		93.1	13990	
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.371	3.380	-0.009	0.832	5728956	2.21		88.2	4756	
D 17 18O2 PFHxS										
403.00 > 84.00	3.655	3.665	-0.010	0.902	5677230	2.35		99.5	29743	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.665	3.665	0.0	1.003	22632	0.008476	Target=3.08		22.8	M
399.00 > 99.00	3.655	3.665	-0.010	1.000	7899		2.87(1.54-4.62)		6.1	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	8131495	2.28		91.2	12467	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 M2-6:2 FTS										
429.00 > 81.00	4.034	4.042	-0.008	0.996	2450776	2.36		99.2	3076	
21 6:2 FTS										
427.00 > 407.00	4.034	4.042	-0.008	1.000	12257	0.004935			6.0	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.051	0.008	1.002	2439	0.000619			9.2	
D 24 13C4 PFOA										
417.00 > 372.00	4.051	4.059	-0.008	1.000	9756444	2.24		89.5	13357	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.042	4.059	-0.017	0.998	31758	0.007955	Target=2.99		5.1	M
413.00 > 169.00	4.051	4.059	-0.008	1.000	9600		3.31(1.50-4.49)		9.9	M
* 25 13C2 PFOA										
415.00 > 370.00	4.051	4.059	-0.008		11066836	2.50			5924	
D 29 13C4 PFOS										
503.00 > 80.00	4.408	4.425	-0.017	1.088	3995775	2.32		97.1	1942	
D 31 13C5 PFNA										
468.00 > 423.00	4.425	4.442	-0.017	1.092	9194203	2.28		91.3	16344	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.740	-0.006	1.169	5146215	2.08		83.3	6277	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.740	-0.006	1.000	9929	0.005140			33.0	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	10981376	2.25		90.0	15600	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	3491680	2.54		106	6543	
39 8:2 FTS										
527.00 > 507.00	4.795	4.802	-0.007	1.002	6504	0.001805			26.3	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.942	4.959	-0.017	1.220	5450705	2.17		86.7	3995	
41 NMeFOSAA										M
570.00 > 419.00	4.942	4.959	-0.017	1.000	10129	0.005768			6.0	M
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.261	10827484	2.27		90.8	9747	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.106	5.123	-0.017	1.261	5464579	2.24		89.8	2692	
48 NEtFOSA										M
584.00 > 419.00	5.116	5.132	-0.016	1.002	7452	0.004404			32.9	M
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.190	-0.006	1.280	2025186	3.27		26.2	1083	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.212	-0.007	1.285	1884613	1.62		64.8	31.3	
50 NMeFOSA										
512.00 > 169.00	5.205	5.223	-0.018	1.000	1873	0.002527			4.5	
51 11ClFOS										
631.00 > 451.00	5.238	5.255	-0.017	1.188	4662	0.000646			9.6	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.359	-0.006	1.322	1685876	2.32		18.6	792	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.385	-0.006	1.328	1333168	1.20		48.0	131	
55 N-EtFOSA-M										
526.00 > 169.00	5.387	5.393	-0.006	1.002	2473	0.004367			5.8	
D 56 13C2 PFDoA										
615.00 > 570.00	5.396	5.409	-0.013	1.332	10201202	1.99		79.4	7255	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.662	5.676	-0.014	1.049	10678	0.002792	Target=6.96		10.1	
663.00 > 169.00	5.662	5.676	-0.014	1.049	1389		7.69(3.48-10.45)		8.3	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.910	5.920	-0.010	1.459	9979093	1.97		78.7	16188	
62 Perfluorotetradecanoic acid										M
713.00 > 669.00	5.910	5.920	-0.010	1.000	19579	0.004983	Target=10.31		9.6	
713.00 > 219.00	5.921	5.920	0.001	1.002	2236		8.76(5.16-15.47)		17.1	M
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.379	6.393	-0.014	1.000	110075	0.003558	Target=9.94		101	
813.00 > 169.00	6.379	6.393	-0.014	1.000	13451		8.18(4.97-14.90)		58.0	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.379	6.393	-0.014	1.575	10250307	1.94		77.7	8561	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:47:52 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d

Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13

Lims ID: MB 320-410906/1-A

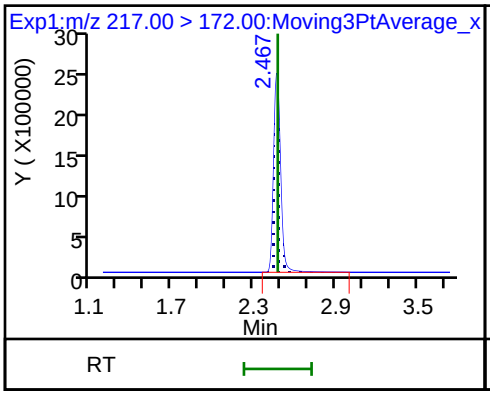
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2

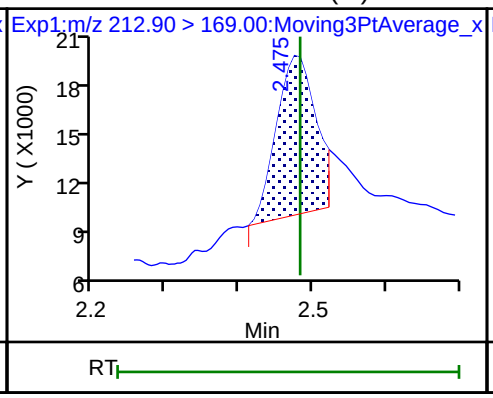
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

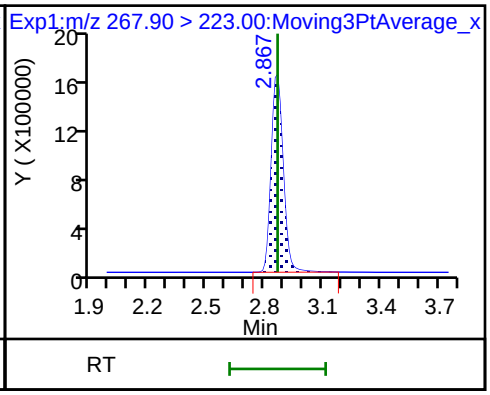
D 1 13C4 PFBA



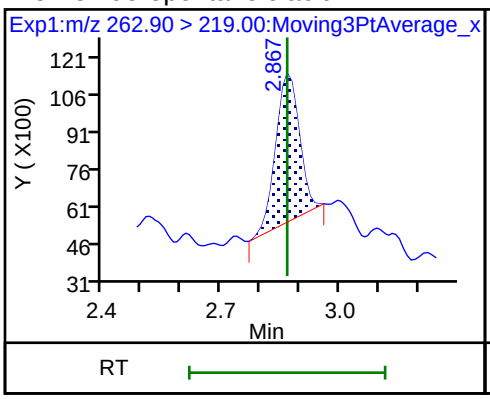
2 Perfluorobutanoic acid (M)



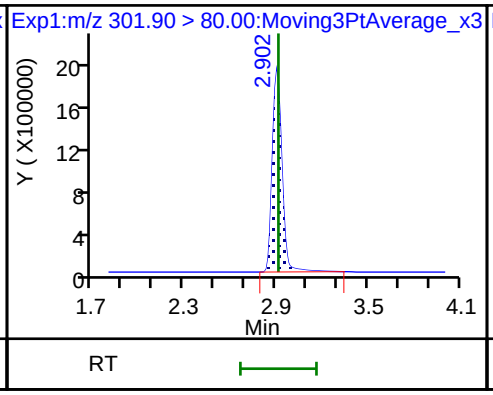
D 4 13C5 PFPeA



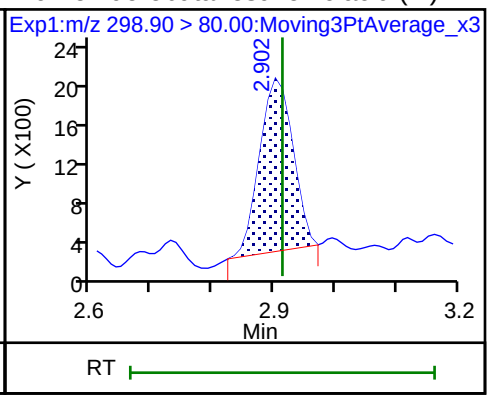
5 Perfluoropentanoic acid



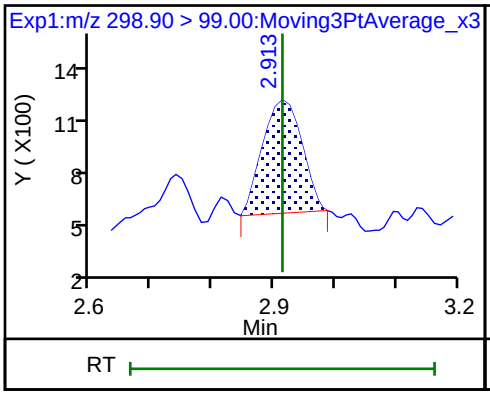
D 14 13C3 PFBS



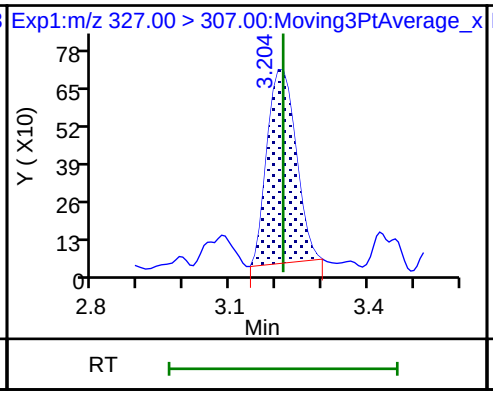
6 Perfluorobutanesulfonic acid (M)



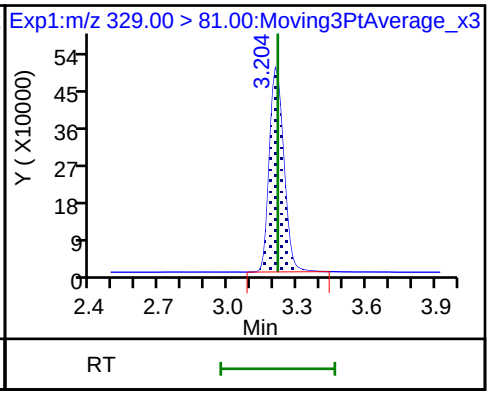
6 Perfluorobutanesulfonic acid



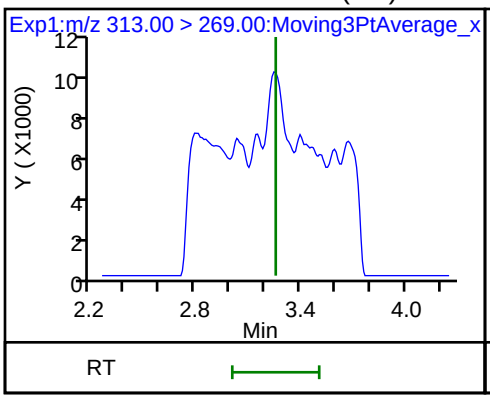
7 4:2 FTS



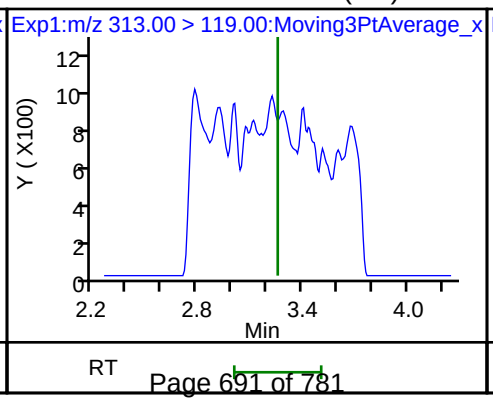
D 8 M2-4:2 FTS



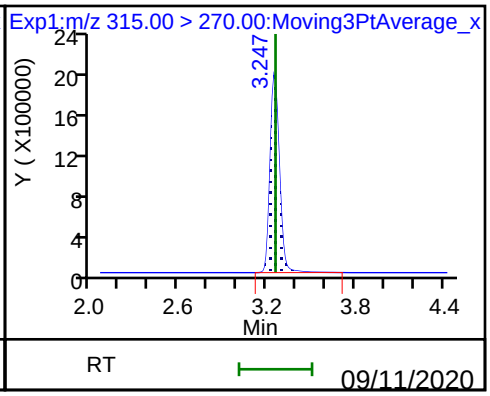
10 Perfluorohexanoic acid (ND)



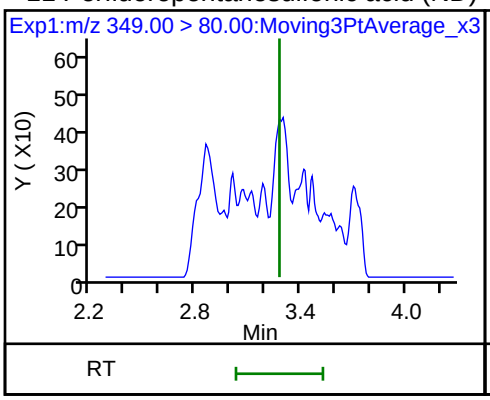
10 Perfluorohexanoic acid (ND)



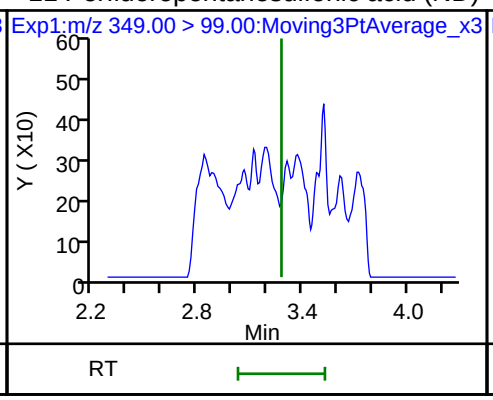
D 9 13C2 PFHxA



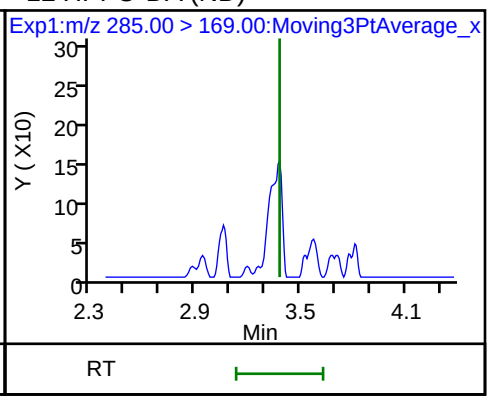
11 Perfluoropentanesulfonic acid (ND)



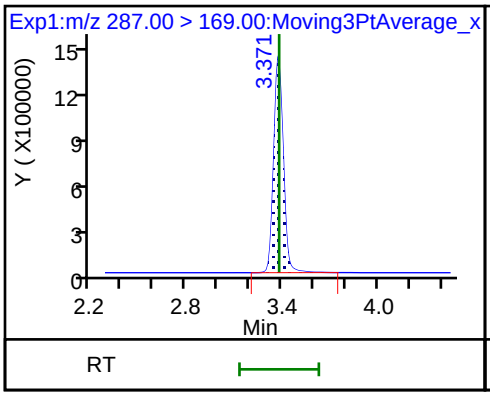
11 Perfluoropentanesulfonic acid (ND)



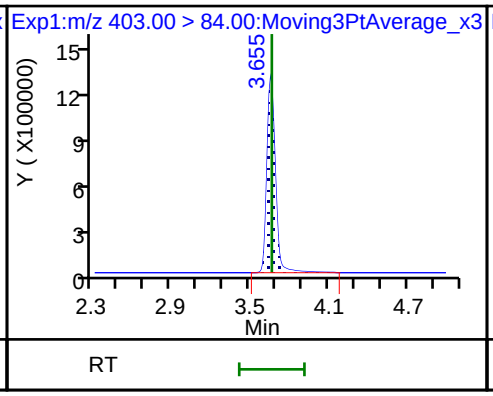
12 HPFO-DA (ND)



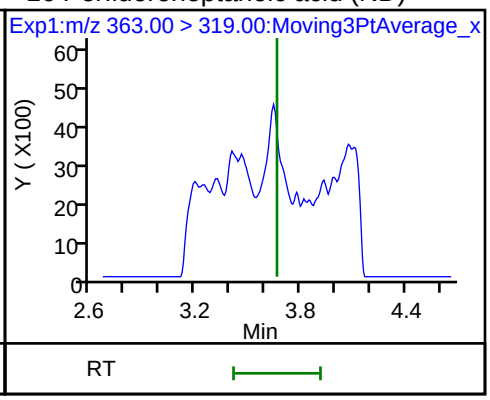
D 13 13C3 HFPO-DA



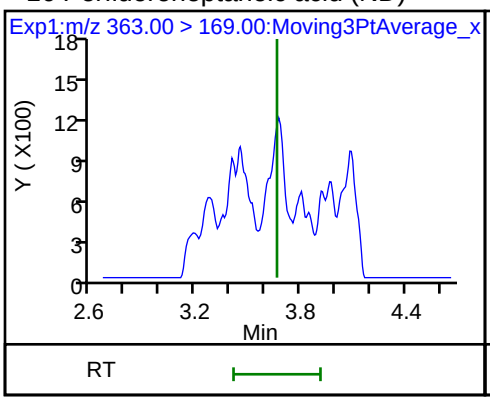
D 17 18O2 PFHxS



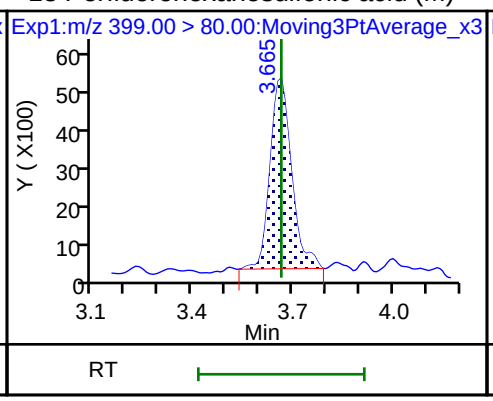
16 Perfluoroheptanoic acid (ND)



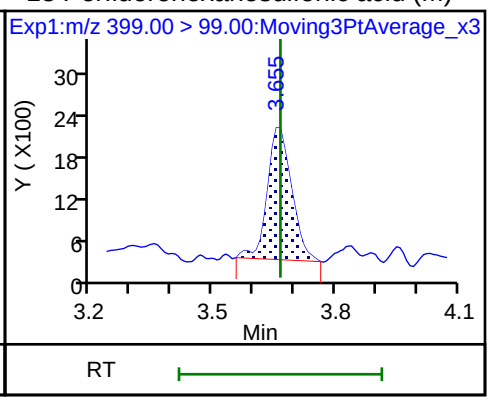
16 Perfluoroheptanoic acid (ND)



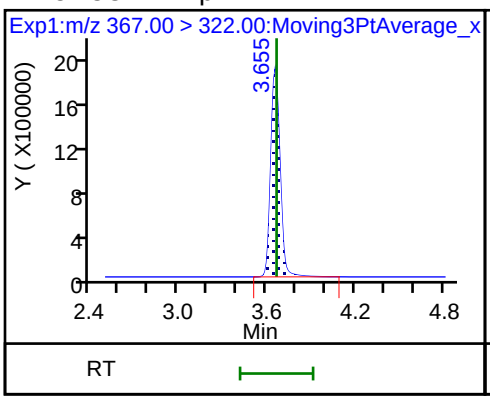
18 Perfluorohexanesulfonic acid (M)



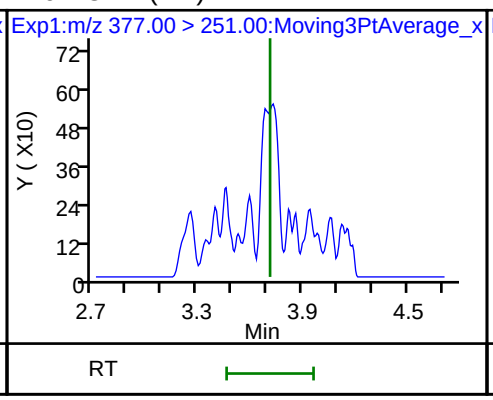
18 Perfluorohexanesulfonic acid (M)



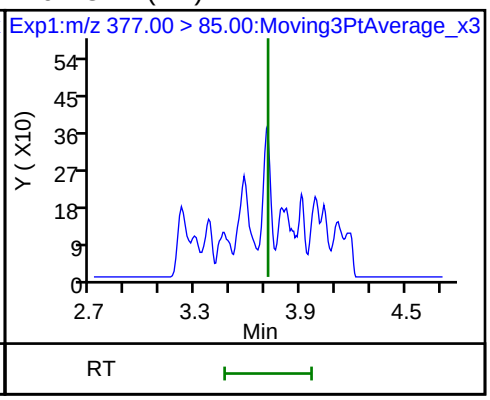
D 15 13C4 PFHpA



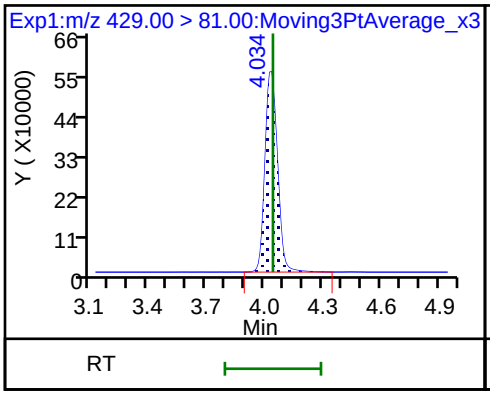
19 DONA (ND)



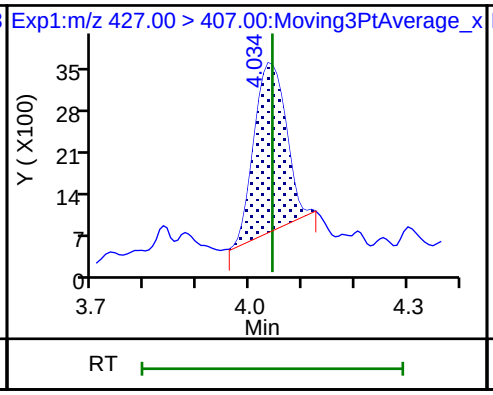
19 DONA (ND)



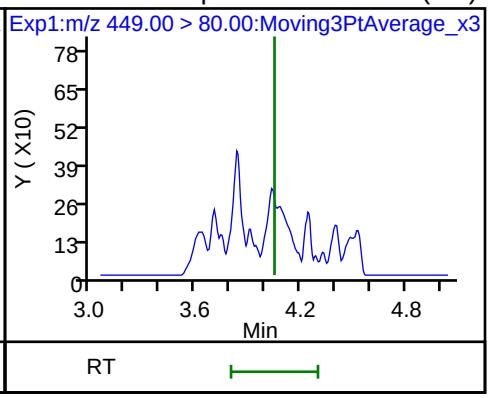
D 20 M2-6:2 FTS



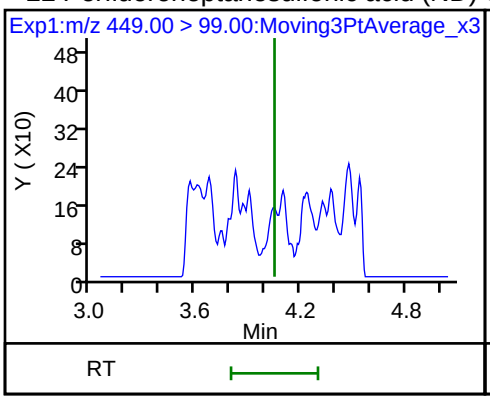
21 6:2 FTS



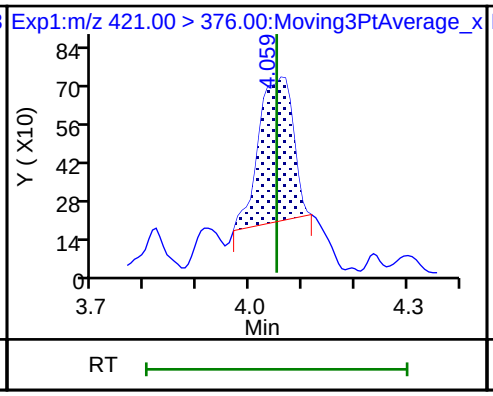
22 Perfluoroheptanesulfonic acid (ND)



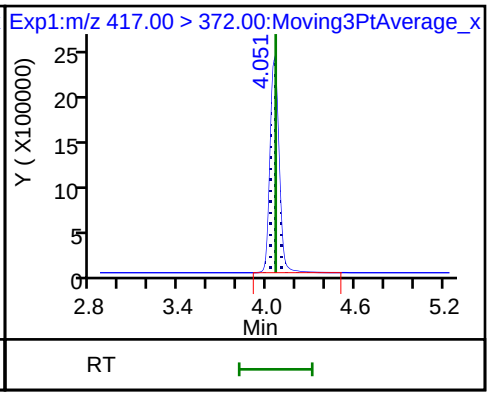
22 Perfluoroheptanesulfonic acid (ND)



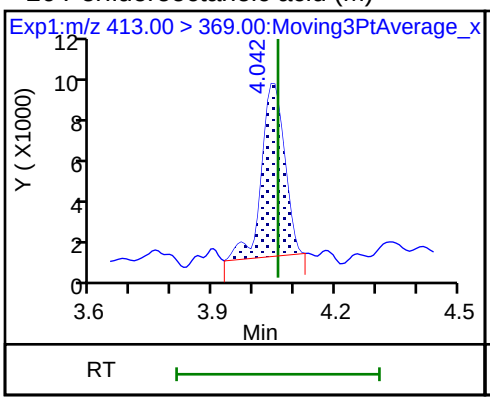
$ 23 13C8 PFOA



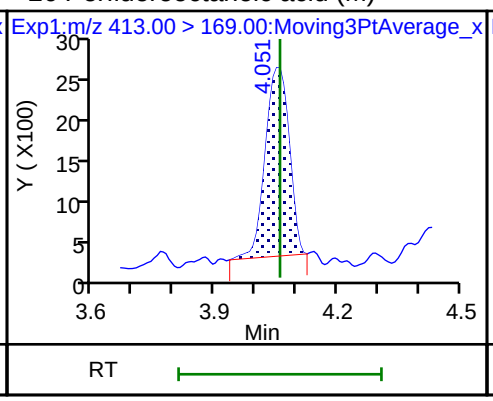
D 24 13C4 PFOA



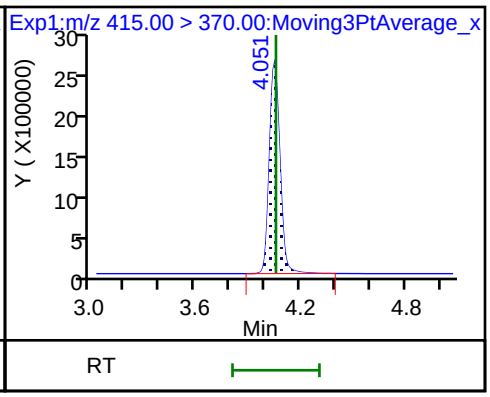
26 Perfluorooctanoic acid (M)



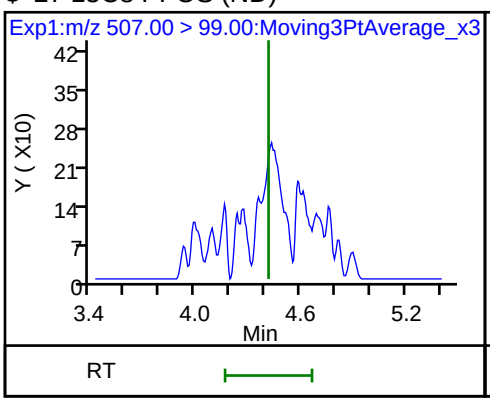
26 Perfluorooctanoic acid (M)



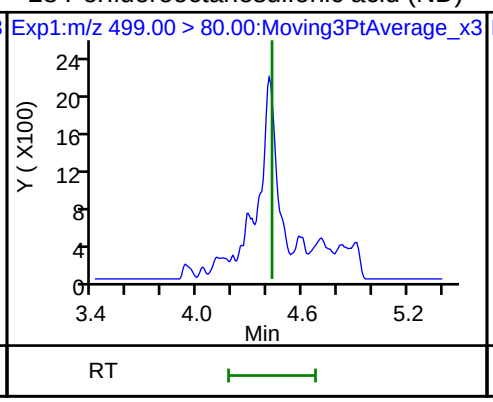
* 25 13C2 PFOA



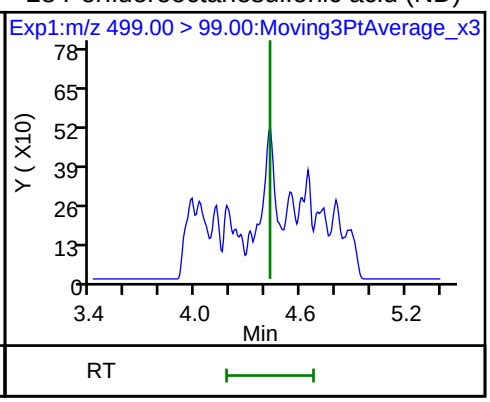
$ 27 13C8 PFOS (ND)



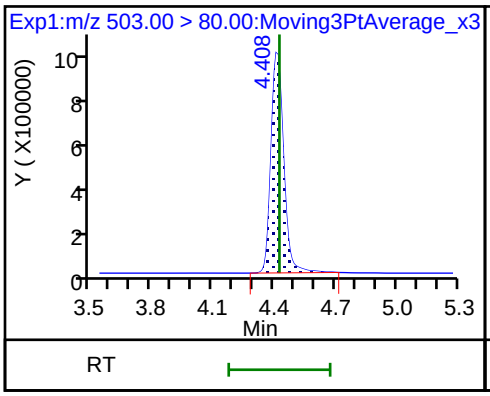
28 Perfluorooctanesulfonic acid (ND)



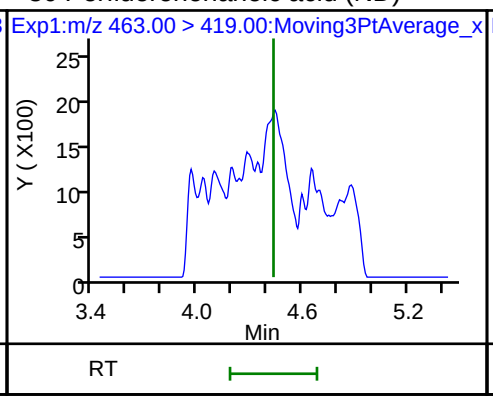
28 Perfluorooctanesulfonic acid (ND)



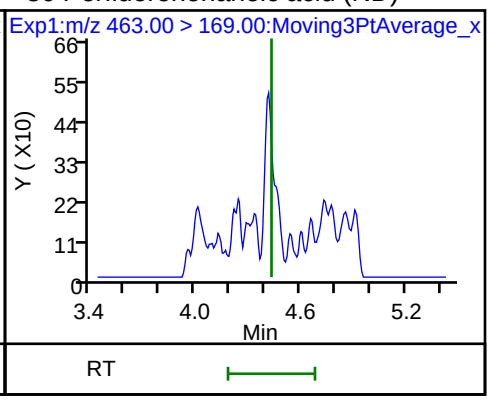
D 29 13C4 PFOS



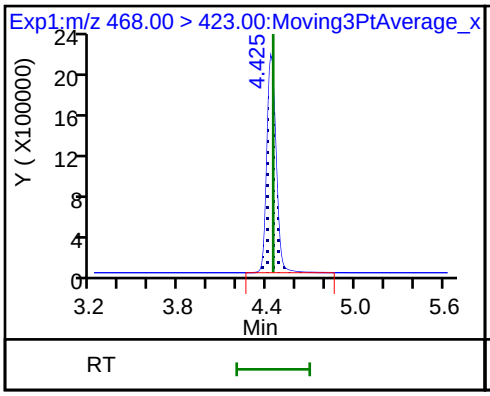
30 Perfluorononanoic acid (ND)



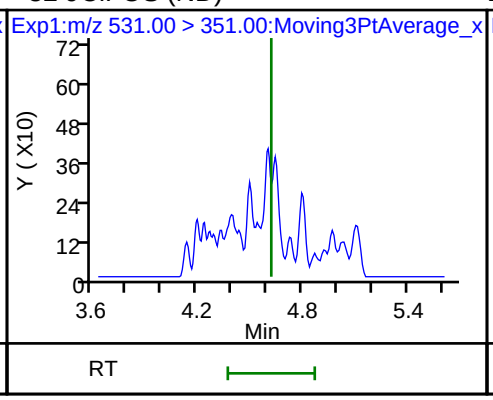
30 Perfluorononanoic acid (ND)



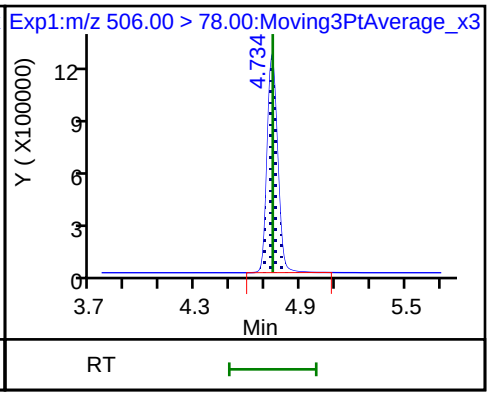
D 31 13C5 PFNA



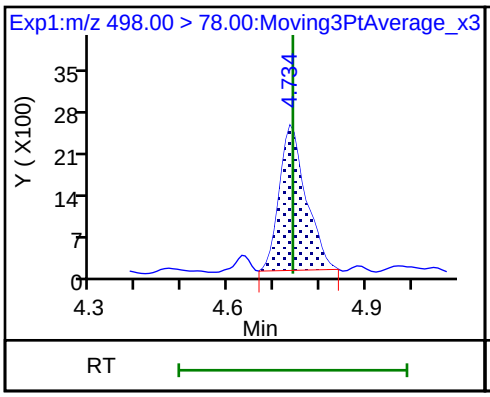
32 9ClFOS (ND)



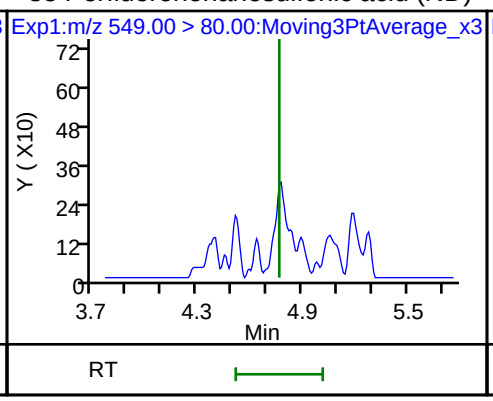
D 34 13C8 FOSA



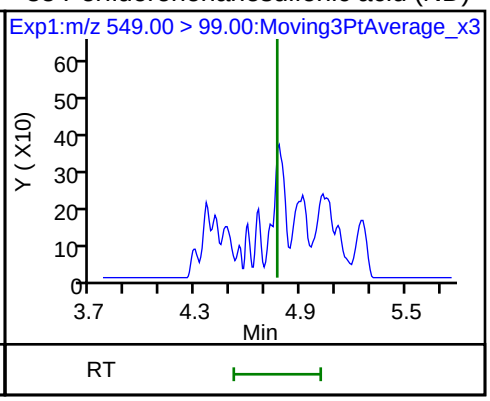
33 Perfluorooctanesulfonamide



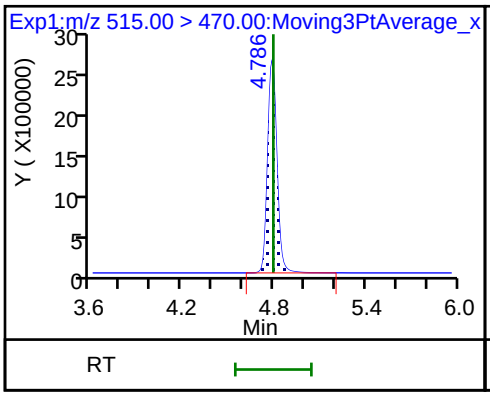
35 Perfluorononanesulfonic acid (ND)



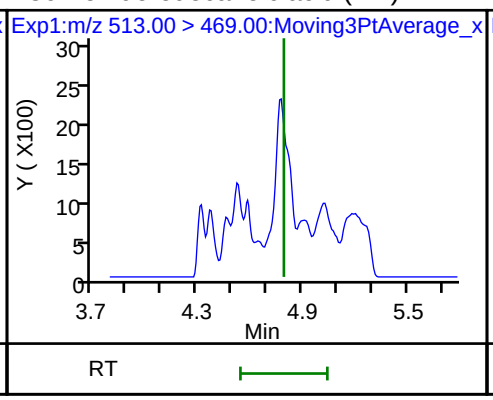
35 Perfluorononanesulfonic acid (ND)



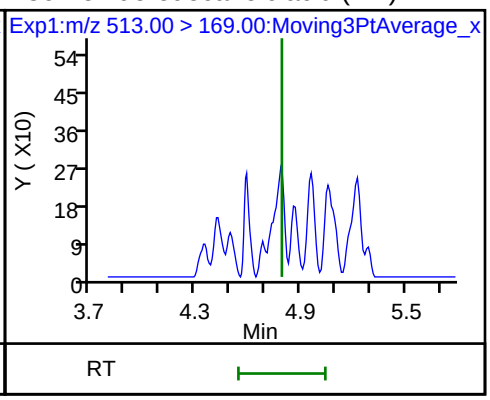
D 37 13C2 PFDA



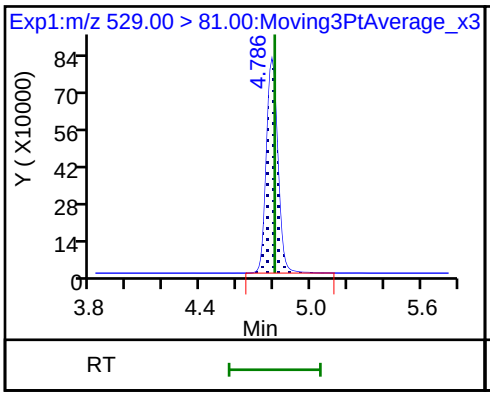
36 Perfluorodecanoic acid (ND)



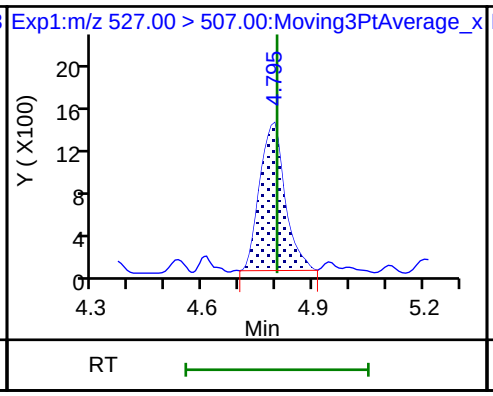
36 Perfluorodecanoic acid (ND)



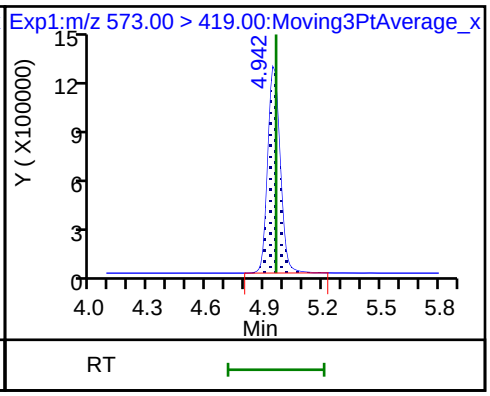
D 38 M2-8:2 FTS



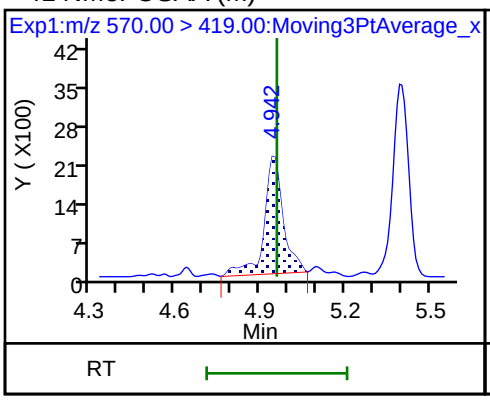
39 8:2 FTS



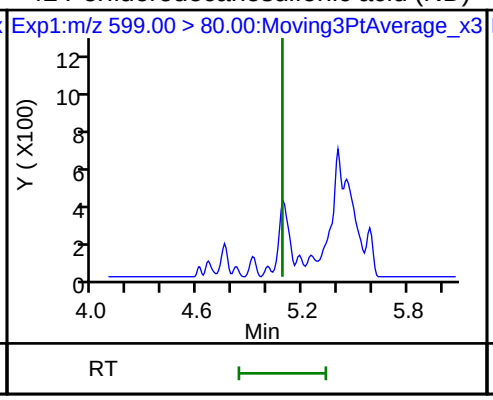
D 40 d3-NMeFOSAA



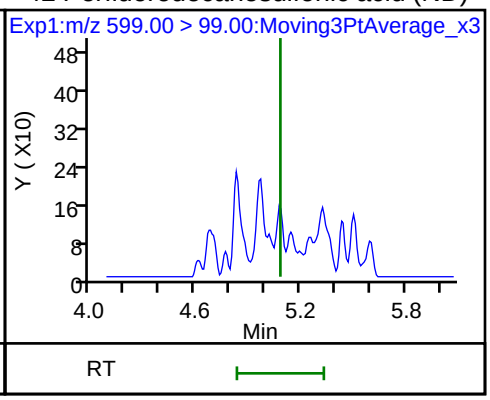
41 NMeFOSAA (M)



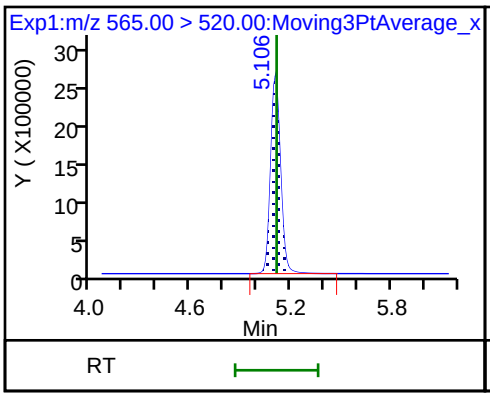
42 Perfluorodecanesulfonic acid (ND)



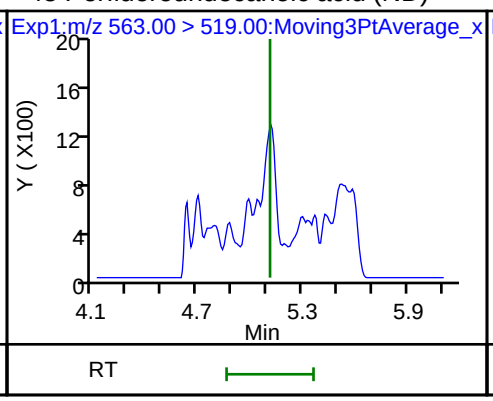
42 Perfluorodecanesulfonic acid (ND)



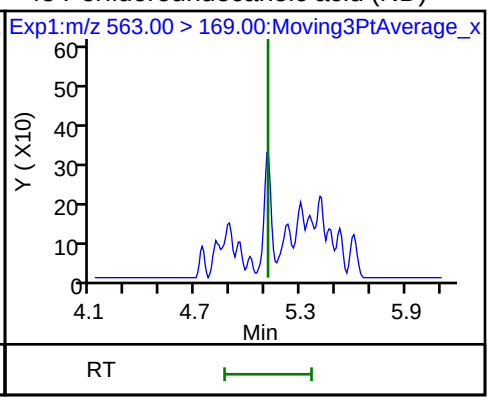
D 44 13C2 PFUnA



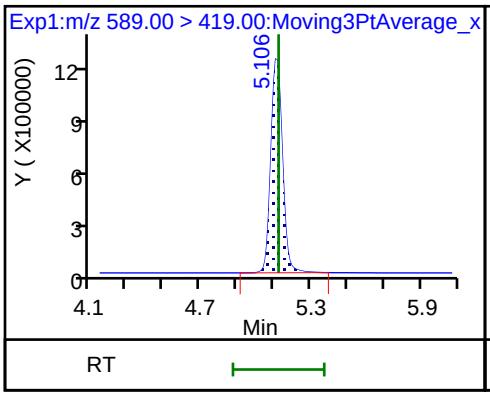
45 Perfluoroundecanoic acid (ND)



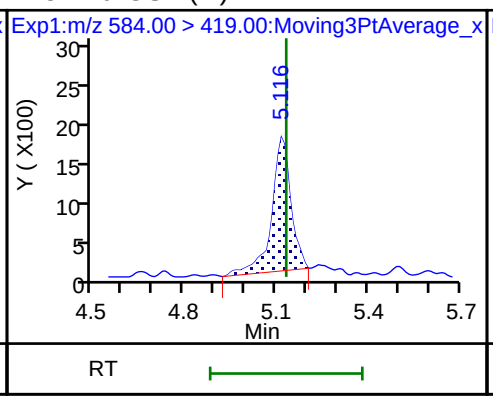
45 Perfluoroundecanoic acid (ND)



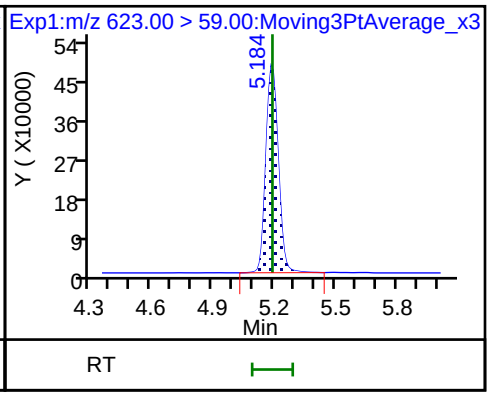
D 46 d5-NEtFOSAA



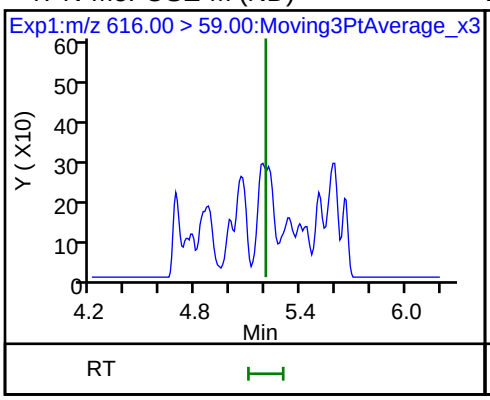
48 NEtFOSA (M)



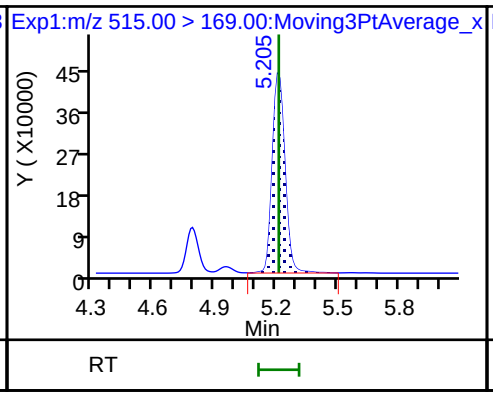
D 43 d7-N-MeFOSE-M



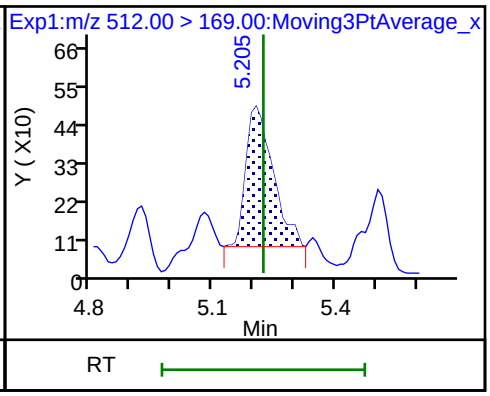
47 N-MeFOSE-M (ND)



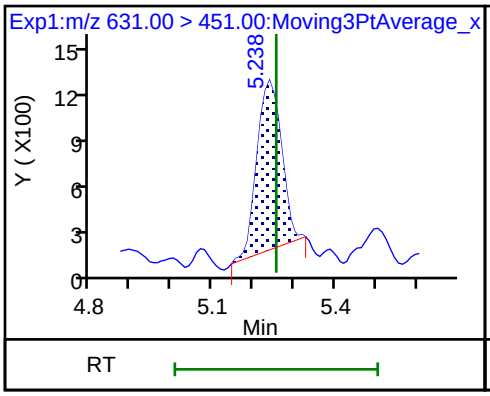
D 49 d-N-MeFOSA-M



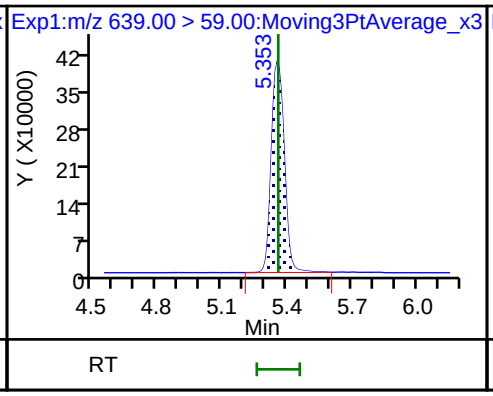
50 NMeFOSA



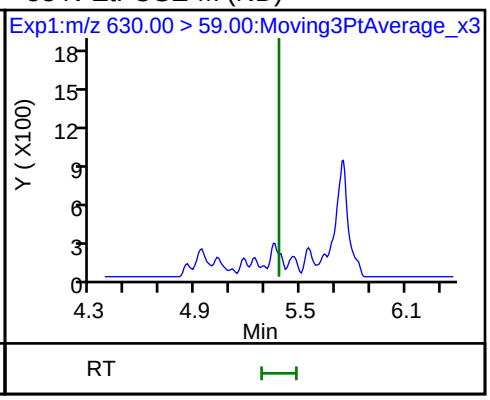
51 11ClFOS



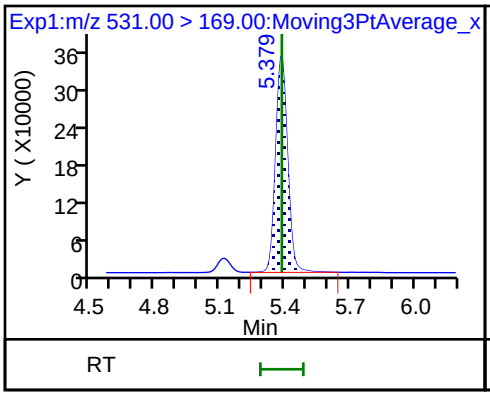
D 52 d9-N-EtFOSE-M



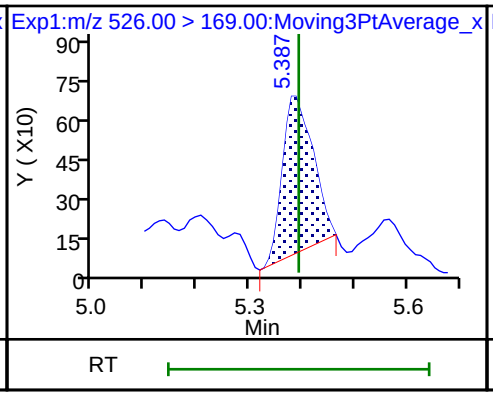
53 N-EtFOSE-M (ND)



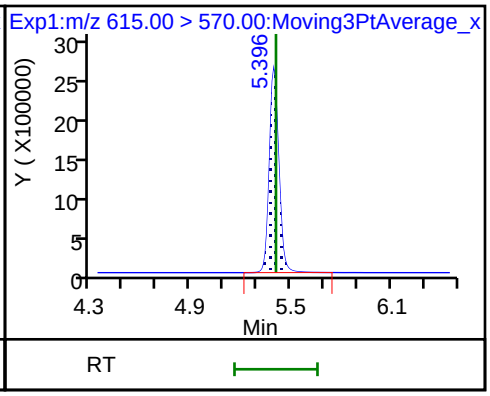
D 54 d-N-EtFOSA-M



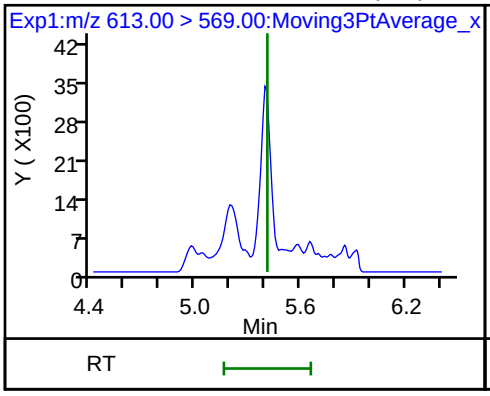
55 N-EtFOSA-M



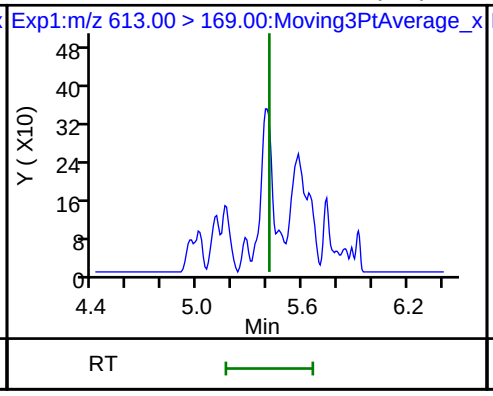
D 56 13C2 PFDoA



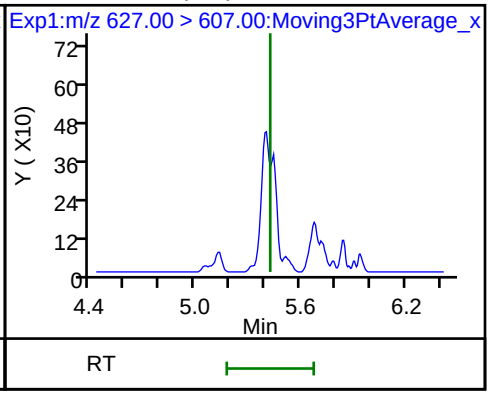
57 Perfluorododecanoic acid (ND)



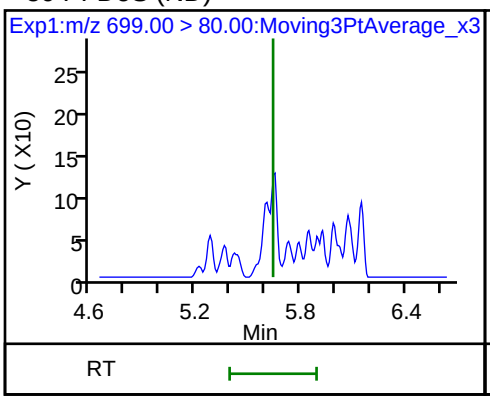
57 Perfluorododecanoic acid (ND)



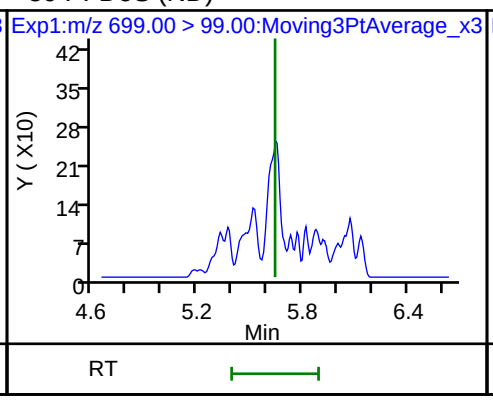
58 10:2 FTS (ND)



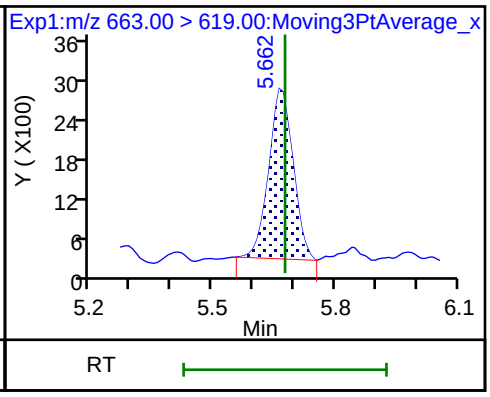
59 PFDoS (ND)



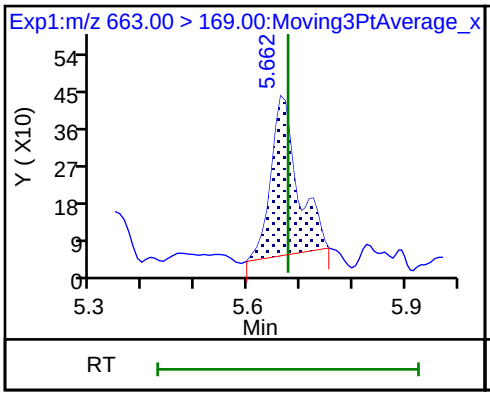
59 PFDoS (ND)



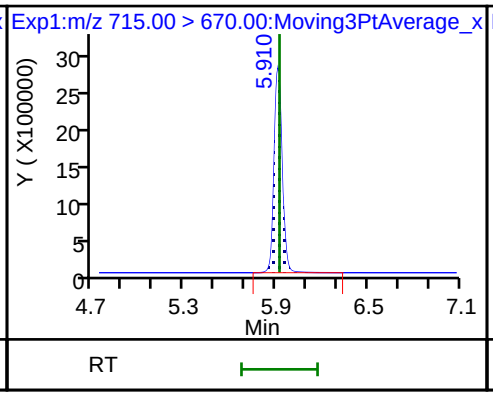
60 Perfluorotridecanoic acid



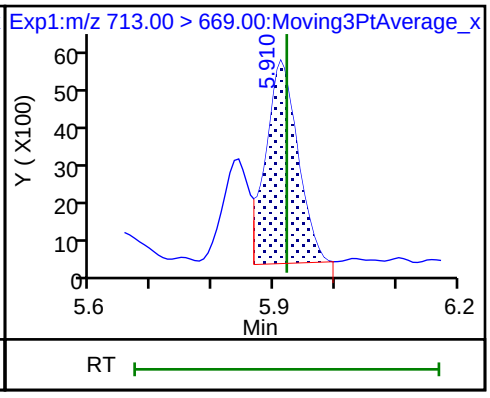
60 Perfluorotridecanoic acid



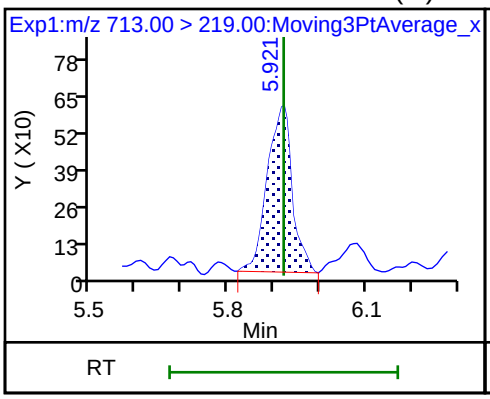
D 61 13C2 PFTeDA



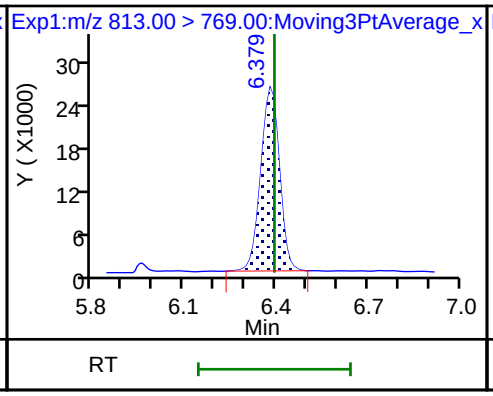
62 Perfluorotetradecanoic acid



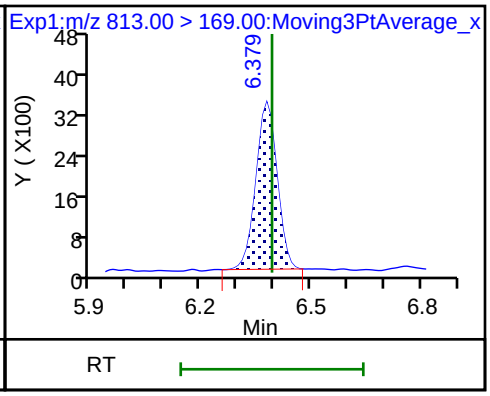
62 Perfluorotetradecanoic acid (M)



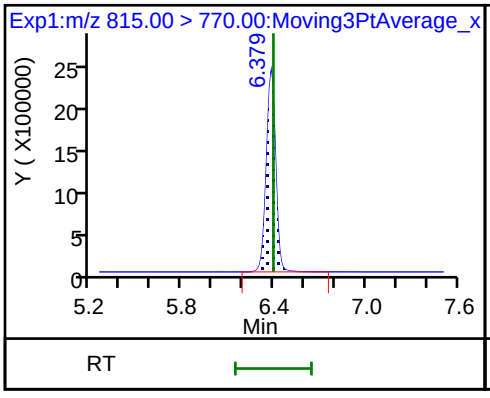
63 Perfluorohexadecanoic acid



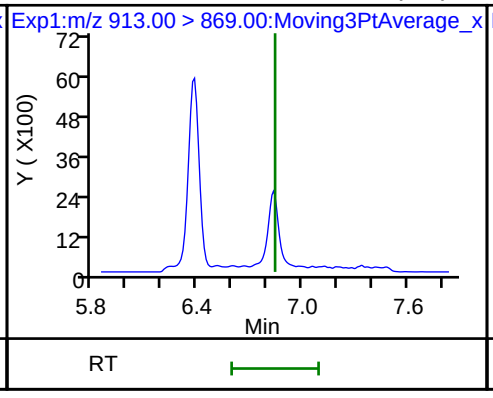
63 Perfluorohexadecanoic acid



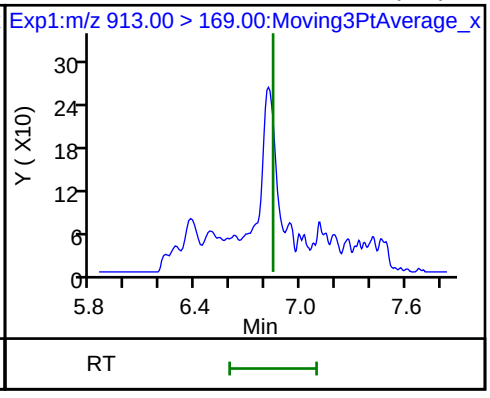
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

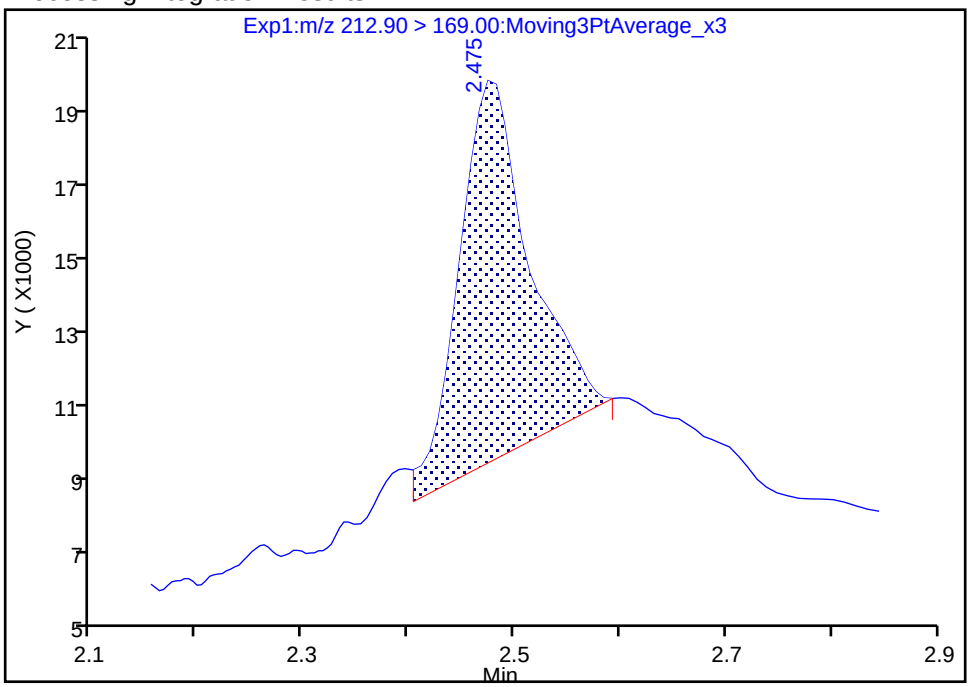
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13
Lims ID: MB 320-410906/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

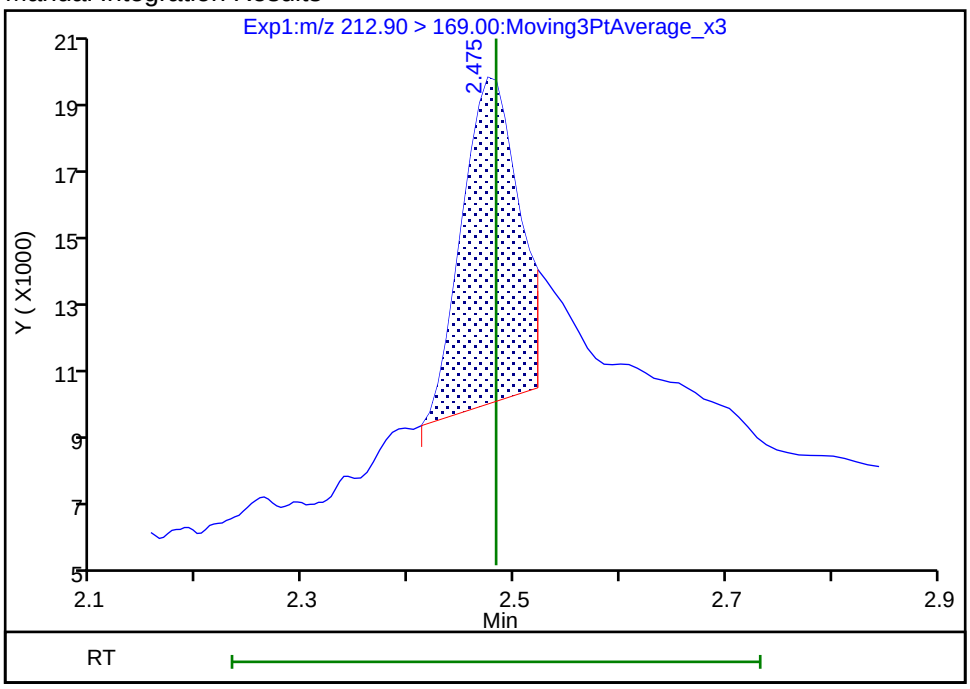
Processing Integration Results

RT: 2.47
Area: 45298
Amount: 0.017945
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 34130
Amount: 0.013521
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:37:08
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

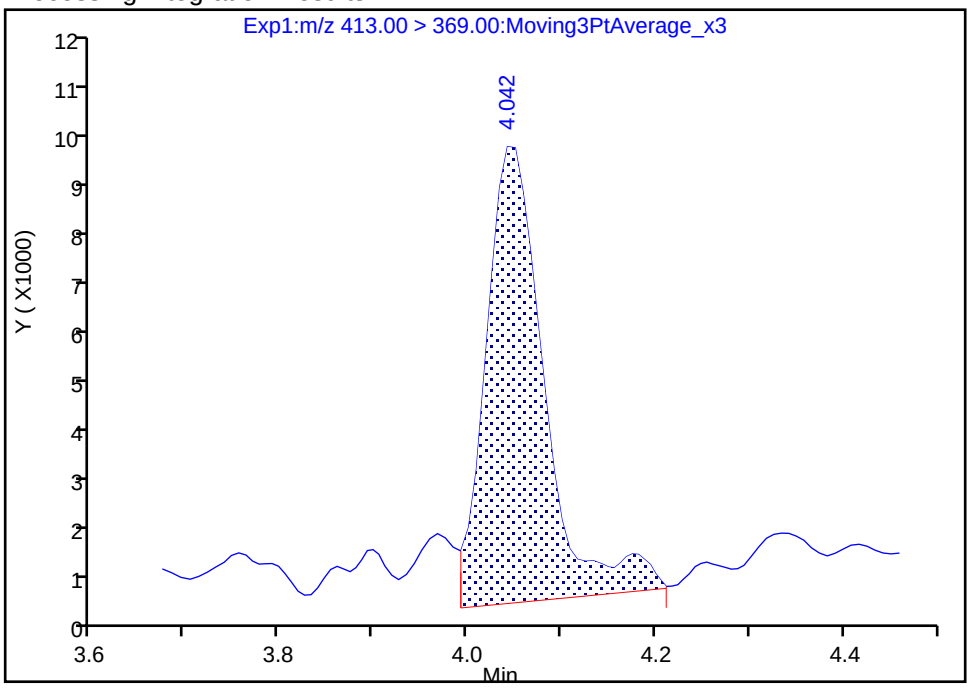
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13
Lims ID: MB 320-410906/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

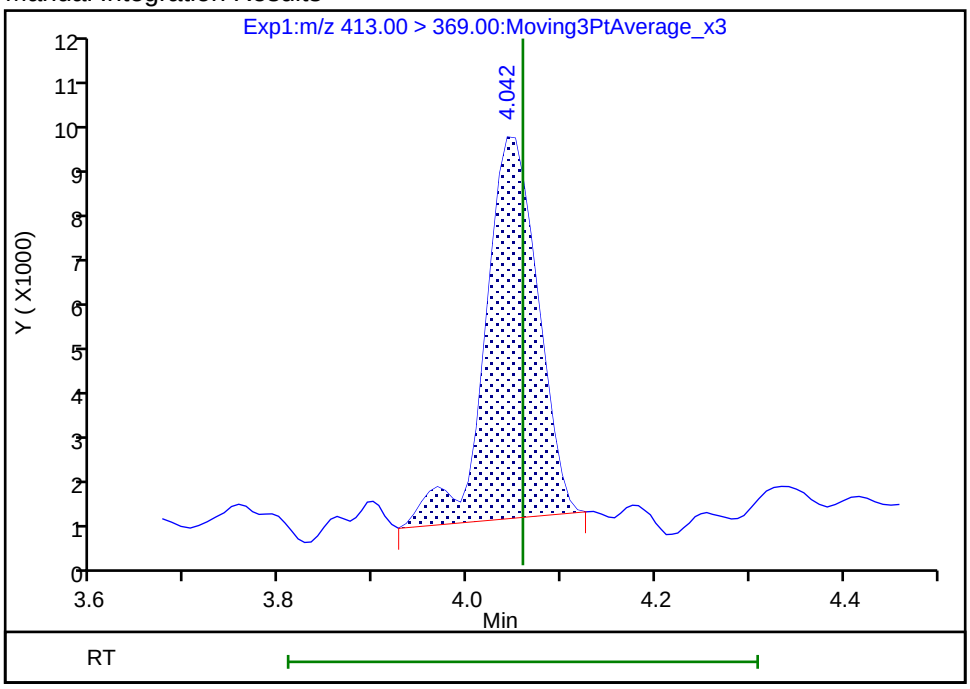
Processing Integration Results

RT: 4.04
Area: 37918
Amount: 0.009498
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 31758
Amount: 0.007955
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:37:47
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

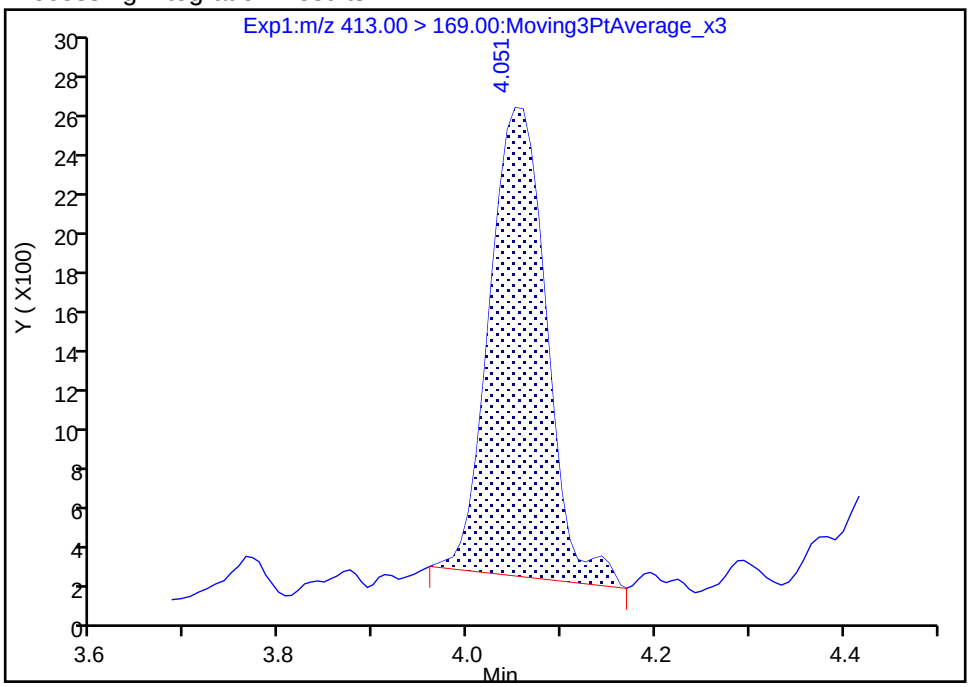
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13
Lims ID: MB 320-410906/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

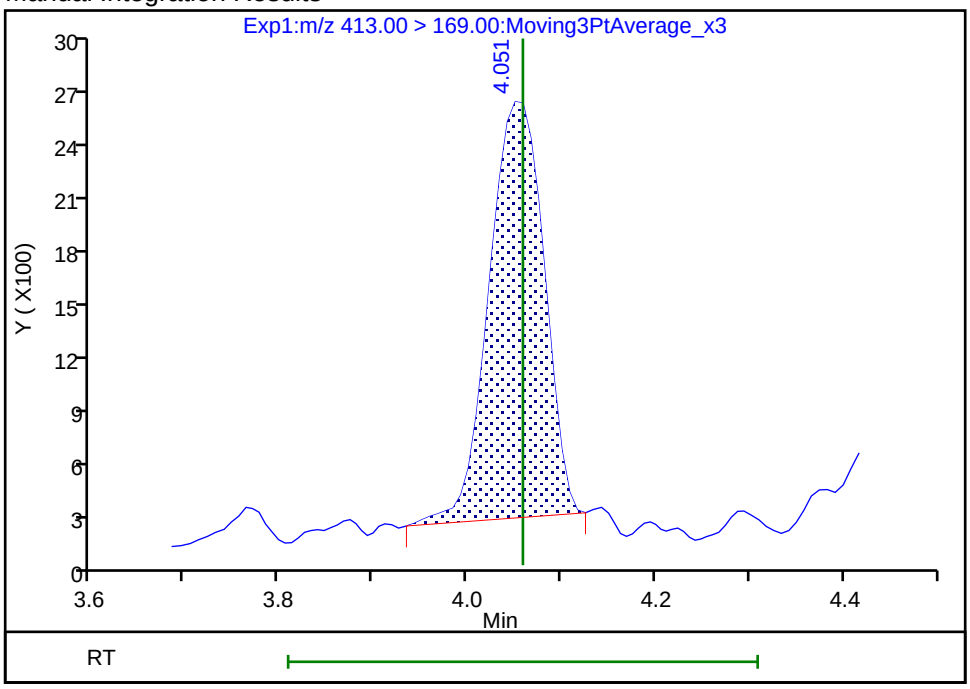
Processing Integration Results

RT: 4.05
Area: 10150
Amount: 0.009498
Amount Units: ng/ml



Manual Integration Results

RT: 4.05
Area: 9600
Amount: 0.007955
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:37:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

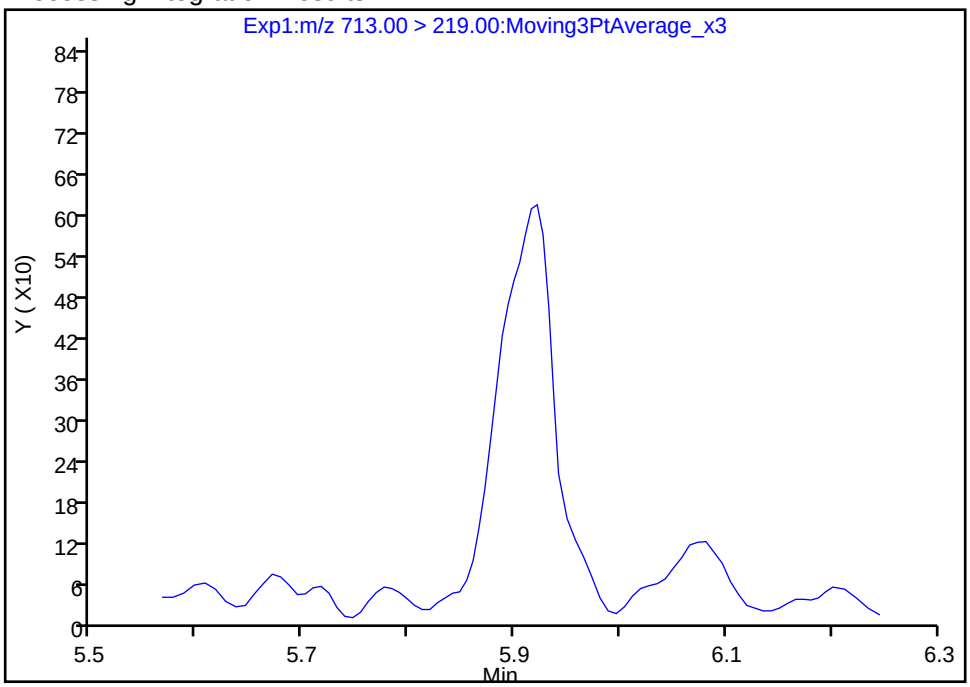
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13
Lims ID: MB 320-410906/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

62 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

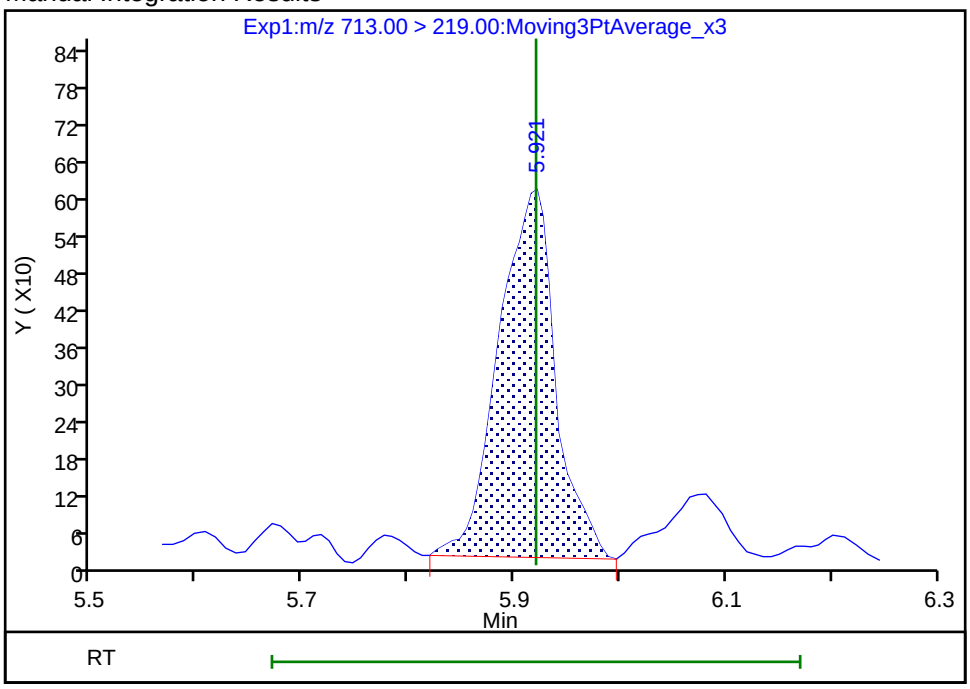
Not Detected
Expected RT: 5.92

Processing Integration Results



Manual Integration Results

RT: 5.92
Area: 2236
Amount: 0.004983
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:47:32
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

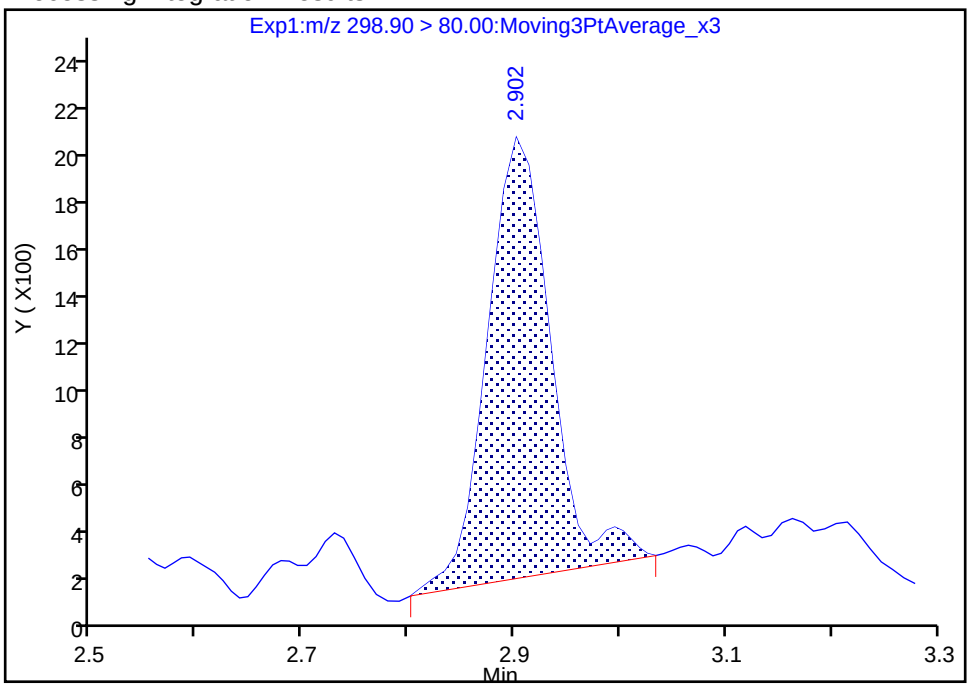
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d				
Injection Date:	10-Sep-2020 18:07:54	Instrument ID:	A13		
Lims ID:	MB 320-410906/1-A				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	32	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

6 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

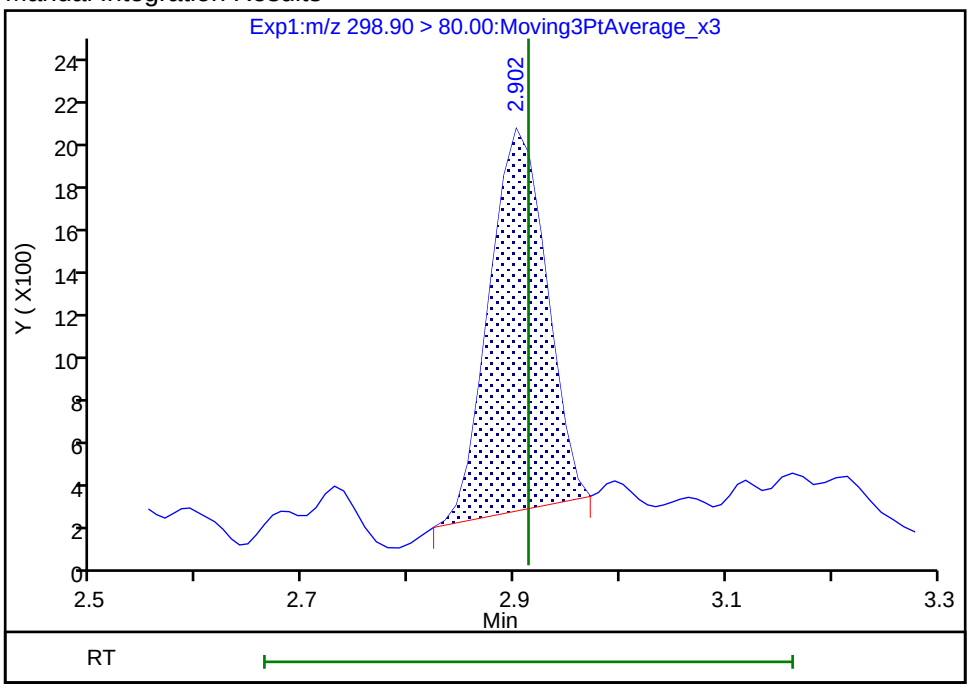
Processing Integration Results

RT: 2.90
Area: 7302
Amount: 0.002078
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 6324
Amount: 0.001800
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:37:15
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

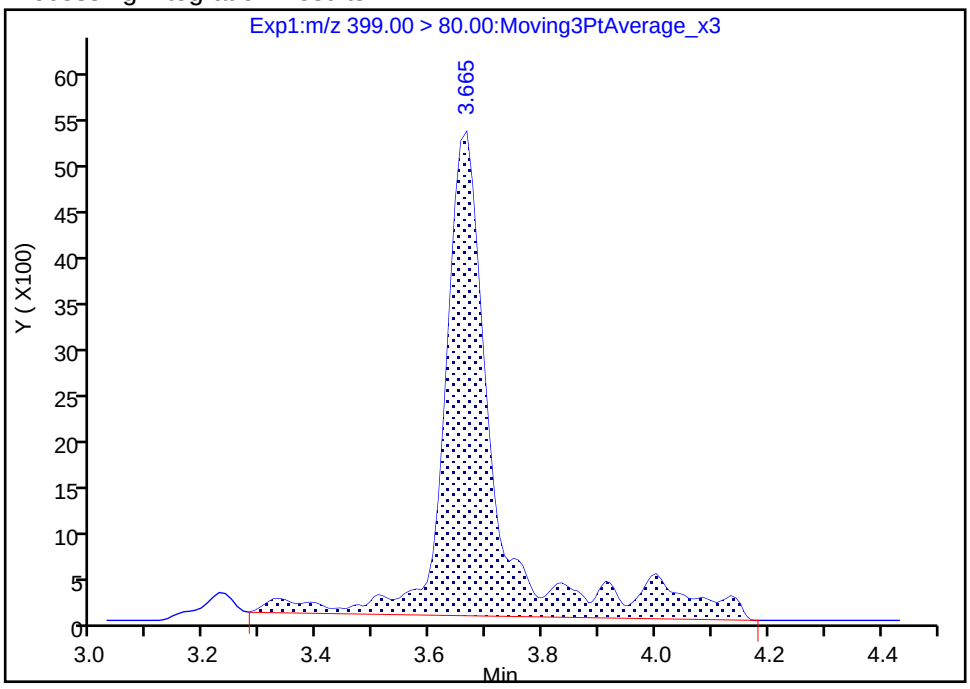
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13
Lims ID: MB 320-410906/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

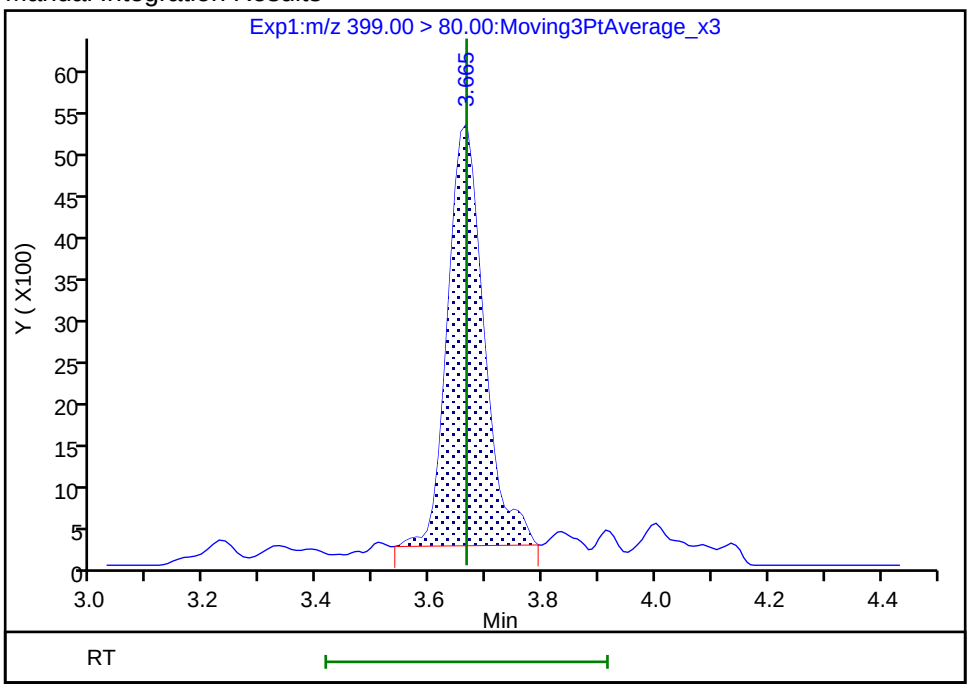
Processing Integration Results

RT: 3.66
Area: 33004
Amount: 0.012360
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 22632
Amount: 0.008476
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:37:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

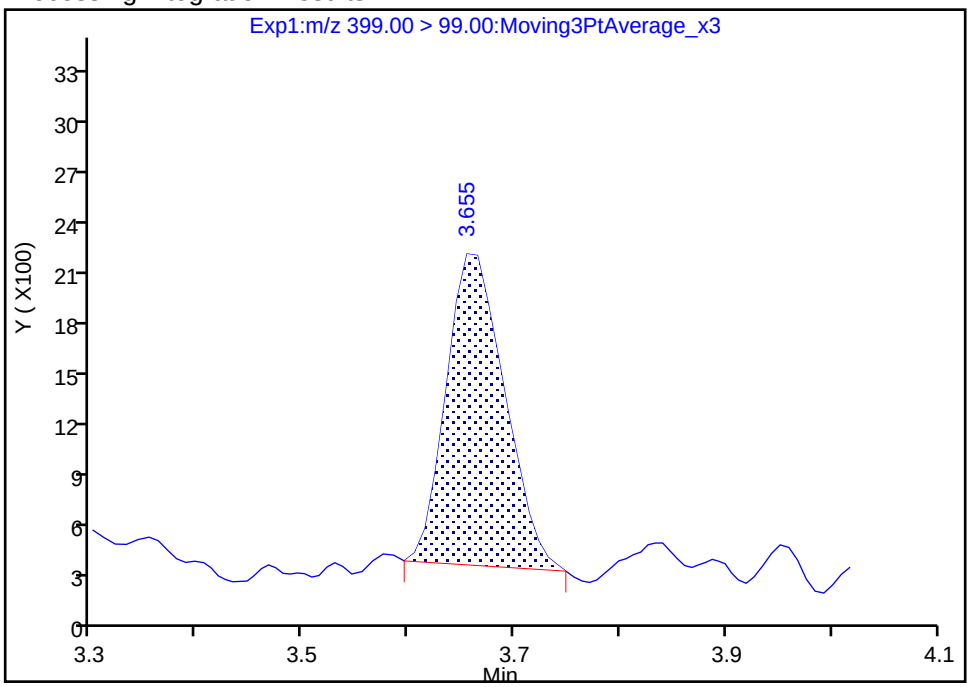
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d
Injection Date: 10-Sep-2020 18:07:54 Instrument ID: A13
Lims ID: MB 320-410906/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 32 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

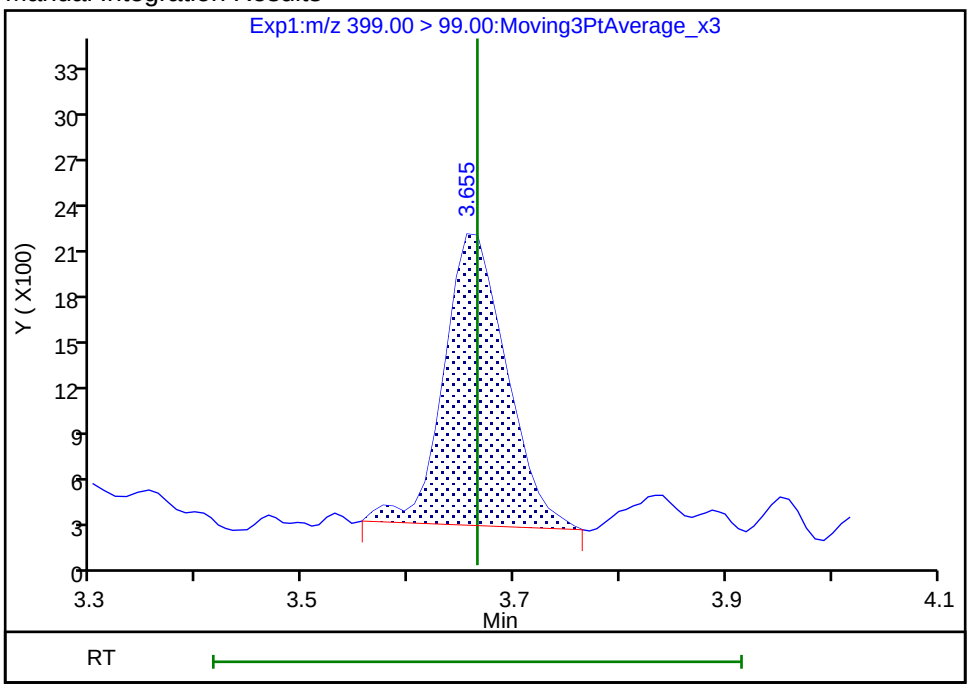
Processing Integration Results

RT: 3.65
Area: 7096
Amount: 0.012360
Amount Units: ng/ml



Manual Integration Results

RT: 3.65
Area: 7899
Amount: 0.008476
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:37:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

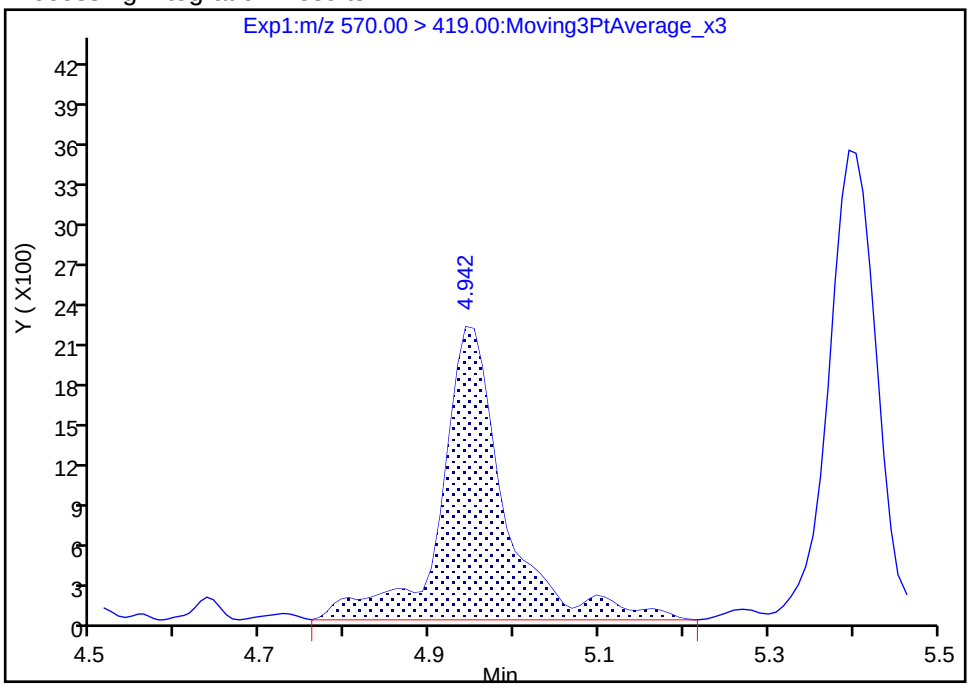
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d				
Injection Date:	10-Sep-2020 18:07:54	Instrument ID:	A13		
Lims ID:	MB 320-410906/1-A				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	32	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

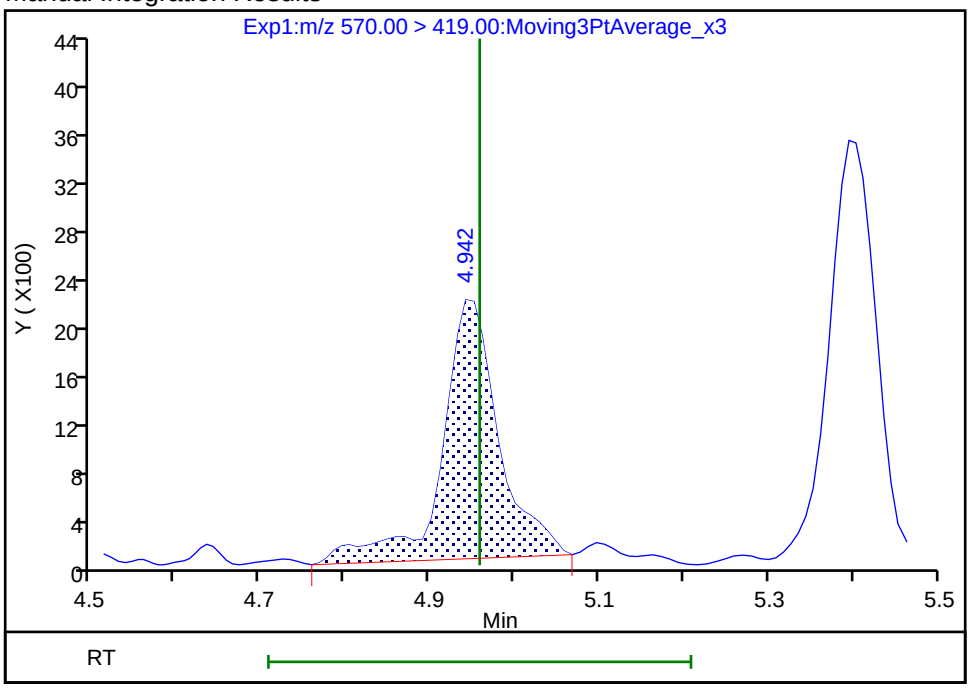
Processing Integration Results

RT: 4.94
Area: 11674
Amount: 0.006647
Amount Units: ng/ml



Manual Integration Results

RT: 4.94
Area: 10129
Amount: 0.005768
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:38:03
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

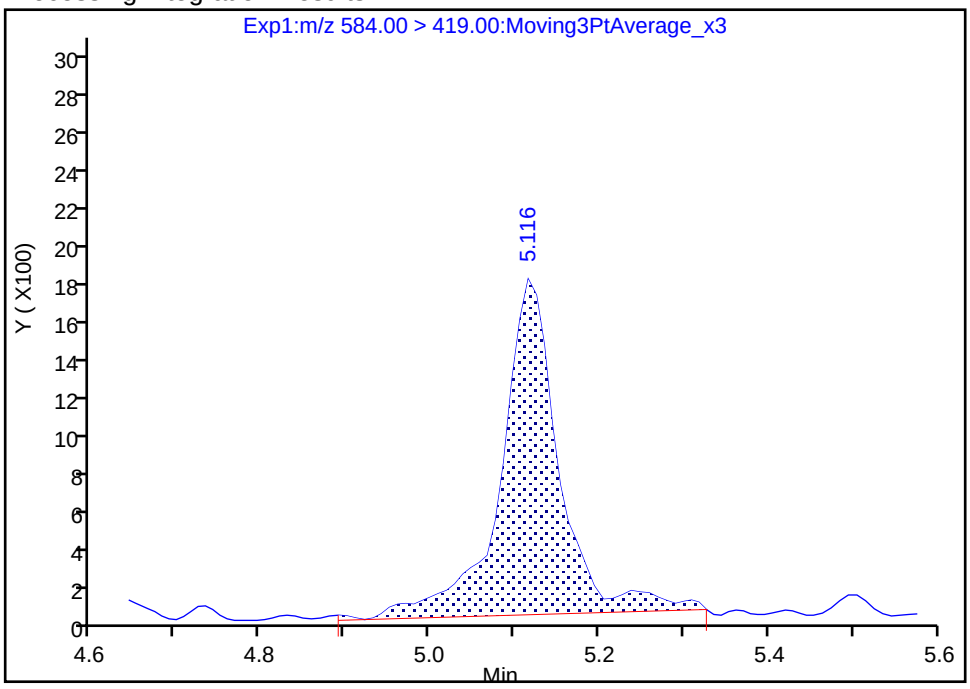
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_059.d				
Injection Date:	10-Sep-2020 18:07:54	Instrument ID:	A13		
Lims ID:	MB 320-410906/1-A				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	32	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector	EXP1		

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

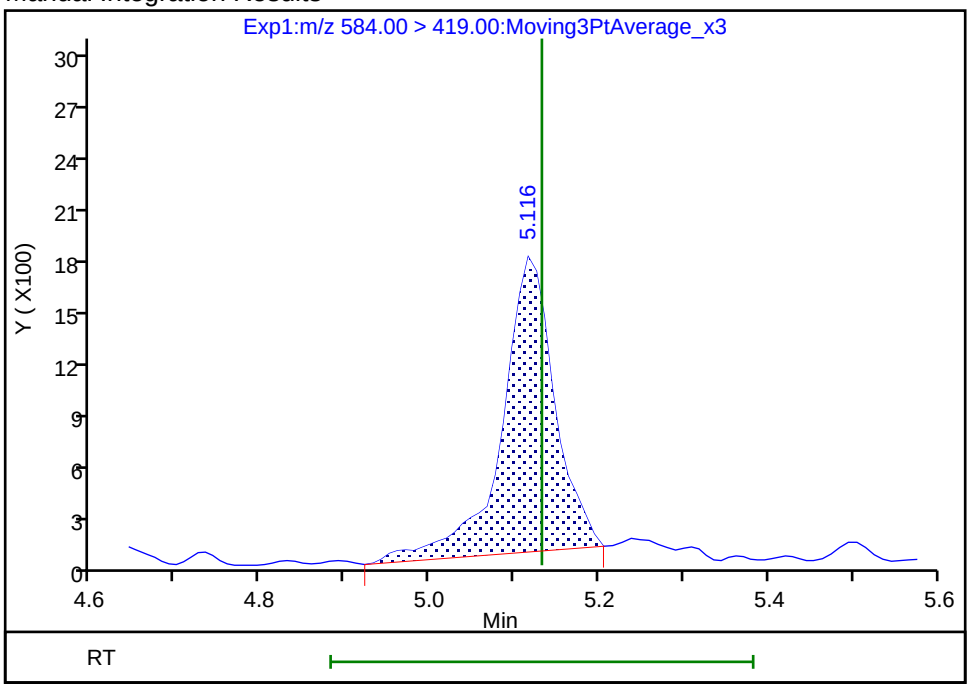
Processing Integration Results

RT: 5.12
Area: 8561
Amount: 0.005060
Amount Units: ng/ml



Manual Integration Results

RT: 5.12
Area: 7452
Amount: 0.004404
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:38:11
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-410989/1

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_004.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/10/2020 10:36

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410989 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.0073	U	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00764	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 320-410989/1

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_004.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/10/2020 10:36

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410989 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	111		25-150
STL01893	13C5 PFPeA	106		25-150
STL00993	13C2 PFHxA	106		25-150
STL01892	13C4 PFHpA	108		25-150
STL00990	13C4 PFOA	102		25-150
STL00995	13C5 PFNA	108		25-150
STL00996	13C2 PFDA	105		25-150
STL00997	13C2 PFUnA	104		25-150
STL00998	13C2 PFDoA	103		25-150
STL02116	13C2 PFTeDA	101		25-150
STL02337	13C3 PFBS	118		25-150
STL00994	18O2 PFHxS	118		25-150
STL00991	13C4 PFOS	113		25-150
STL01056	13C8 FOSA	114		25-150
STL02118	d3-NMeFOSAA	107		25-150
STL02117	d5-NEtFOSAA	116		25-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	115		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_004.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 10-Sep-2020 10:36:46 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCB (53)
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 10-Sep-2020 11:08:38 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1047

First Level Reviewer: hsuw Date: 10-Sep-2020 11:08:38
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200909-102987.b\2020.09.09_A13_PFC_B_025.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.483	2.482	0.001	0.609	10087930	2.78		111	12029	
D 4 13C5 PFPeA										
267.90 > 223.00	2.878	2.878	0.0	0.706	7506032	2.66		106	13996	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.878	2.878	0.0	1.000	13309	0.004313			1.3	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.715	9748363	2.75		118	17822	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.226	3.225	0.001	0.791	2167168	2.49		107	1240	
D 9 13C2 PFHxA										
315.00 > 270.00	3.268	3.268	0.0	0.802	9254851	2.65		106	21538	
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.388	3.388	0.0	0.831	6625863	2.65		106	8337	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	3.665	3.675	-0.010	0.997	7467	0.001988	Target=3.83		1.2	M
363.00 > 169.00	3.675	3.675	0.0	1.000	2571		2.90(1.91-5.74)		1.6	
D 15 13C4 PFHpA										
367.00 > 322.00	3.675	3.675	0.0	0.902	9292420	2.70		108	12688	
D 17 18O2 PFHxS										
403.00 > 84.00	3.675	3.675	0.0	0.902	6509748	2.80		118	52730	
18 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.685	3.675	0.010	1.003	23392	0.007640	Target=3.06		30.2	
399.00 > 99.00	3.685	3.675	0.010	1.003	6661		3.51(1.53-4.58)		6.6	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.051	4.050	0.001	0.994	2544054	2.54		107	3105	
21 6:2 FTS										
427.00 > 407.00	4.051	4.050	0.001	1.000	23891	0.009267			51.3	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
$ 23 13C8 PFOA										
421.00 > 376.00	4.067	4.059	0.008	0.998	9047761	2.38		97.3	5636	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.075	4.067	0.008	1.000	42620	0.009682	Target=2.96		7.2	
413.00 > 169.00	4.084	4.067	0.017	1.002	10294		4.14(1.48-4.44)		14.1	
* 25 13C2 PFOA										
415.00 > 370.00	4.075	4.067	0.008		10666800	2.50			18421	
D 24 13C4 PFOA										
417.00 > 372.00	4.075	4.067	0.008	1.000	10757172	2.56		102	8100	
$ 27 13C8 PFOS										
507.00 > 99.00	4.434	4.426	0.008	1.088	2377517	2.68		112	1984	
D 29 13C4 PFOS										
503.00 > 80.00	4.434	4.435	-0.001	1.088	4484493	2.70		113	8139	
D 31 13C5 PFNA										
468.00 > 423.00	4.451	4.443	0.008	1.092	10510046	2.71		108	39183	
D 34 13C8 FOSA										
506.00 > 78.00	4.743	4.743	0.0	1.164	6805883	2.86		114	6446	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.743	-0.009	0.998	4295	0.001681			17.6	
D 37 13C2 PFDA										
515.00 > 470.00	4.813	4.804	0.009	1.181	12385520	2.63		105	21585	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.813	4.813	0.0	1.181	3643722	2.75		115	3549	
39 8:2 FTS										
527.00 > 507.00	4.804	4.813	-0.009	0.998	2825	0.000751			24.8	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.981	4.971	0.010	1.222	6502775	2.68		107	11197	
41 NMeFOSAA										
570.00 > 419.00	5.000	4.971	0.029	1.004	1261	0.000602			0.4	
D 44 13C2 PFUnA										
565.00 > 520.00	5.135	5.135	0.0	1.260	12015890	2.61		104	8820	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.144	5.135	0.009	1.262	6828057	2.91		116	3486	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.184	5.184	0.0	1.272	7125799	11.9		95.6	1818	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.205	5.205	0.0	1.277	3170535	2.83		113	52.5	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.353	5.362	-0.009	1.314	7942882	11.4		90.8	2491	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.379	5.379	0.0	1.320	2984738	2.79		111	218	
D 56 13C2 PFDoA										
615.00 > 570.00	5.429	5.429	0.0	1.332	12707189	2.57		103	6139	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.437	5.429	0.008	1.002	8712	0.001879	Target=9.32		5.7	
613.00 > 169.00	5.429	5.429	0.0	1.000	1544		5.64(4.66-13.98)		8.1	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.950	5.950	0.0	1.000	17299	0.003549	Target=11.32		16.8	
713.00 > 219.00	5.950	5.950	0.0	1.000	1791		9.66(5.66-16.98)		20.3	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.950	5.950	0.0	1.460	12379535	2.53		101	11080	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.435	0.0	1.579	12647823	2.49		99.4	5380	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.435	6.435	0.0	1.000	126950	0.001715	Target=9.98		41.7	
813.00 > 169.00	6.435	6.435	0.0	1.000	15117		8.40(4.99-14.97)		75.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00053 Amount Added: 1.00 Units: mL

Report Date: 10-Sep-2020 11:08:40 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_004.d

Injection Date: 10-Sep-2020 10:36:46 Instrument ID: A13

Lims ID: CCB

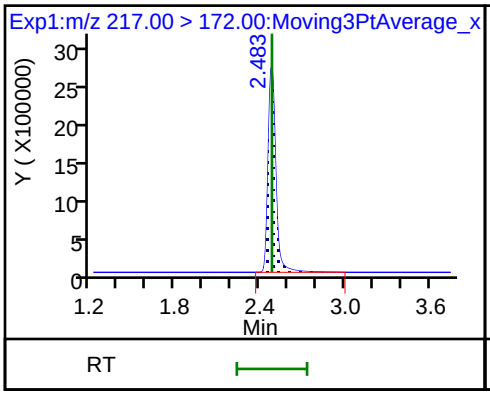
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 50 Worklist Smp#: 1

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



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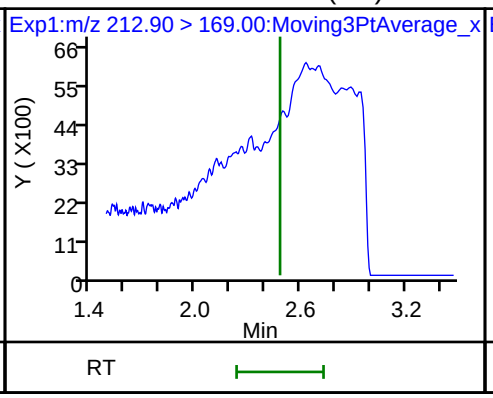
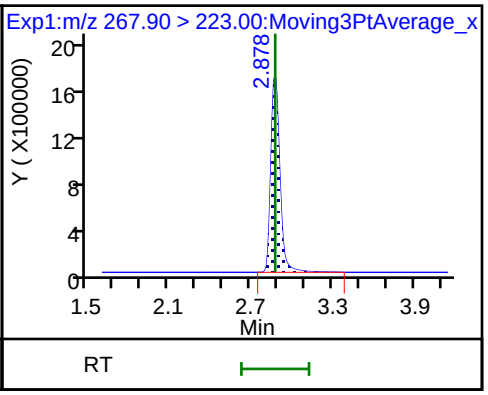
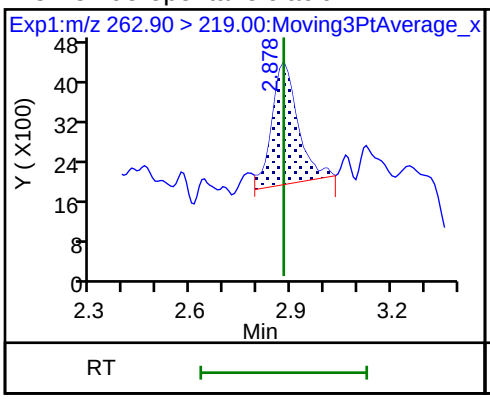


D 4 13C5 PFPeA



5 Perfluoropentanoic acid



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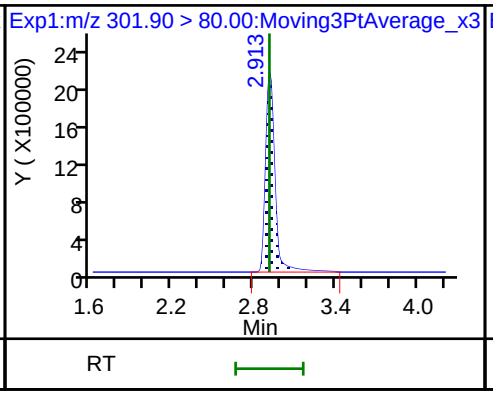

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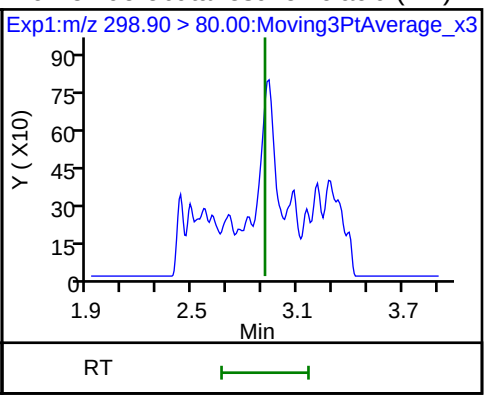
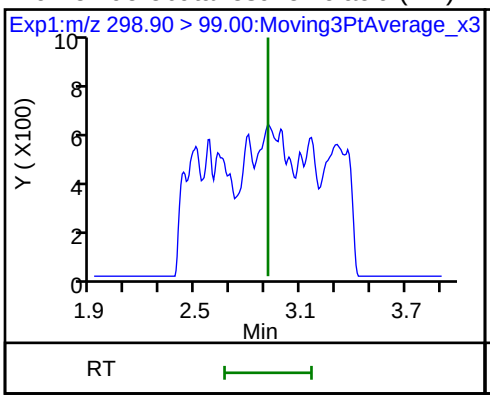
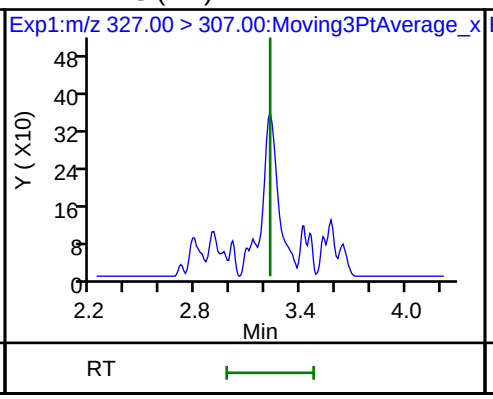


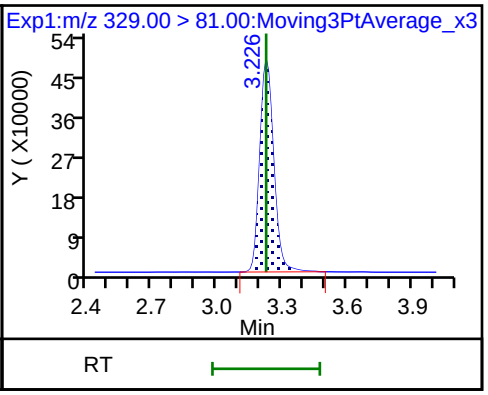
6 Perfluorobutanesulfonic acid (ND)



7 4:2 FTS (ND)



D 8 M2-4:2 FTS



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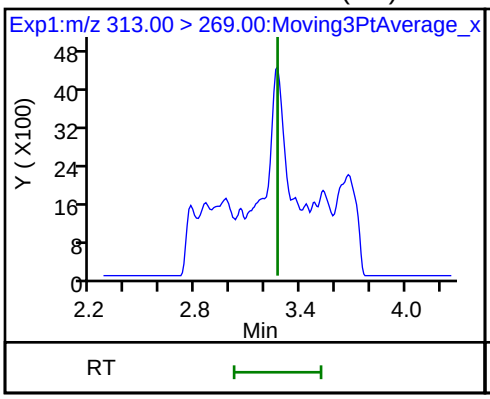

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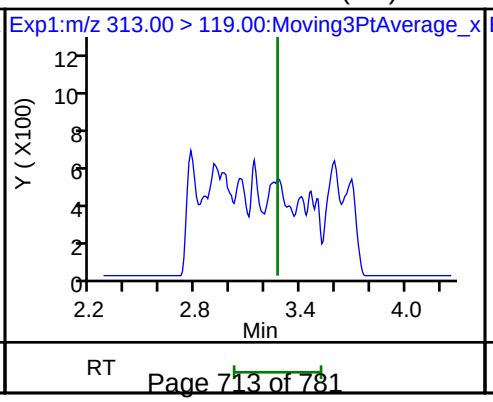
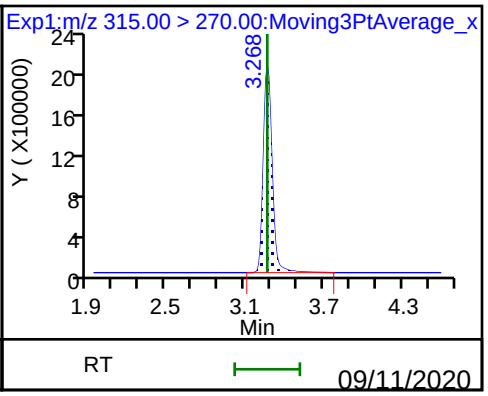
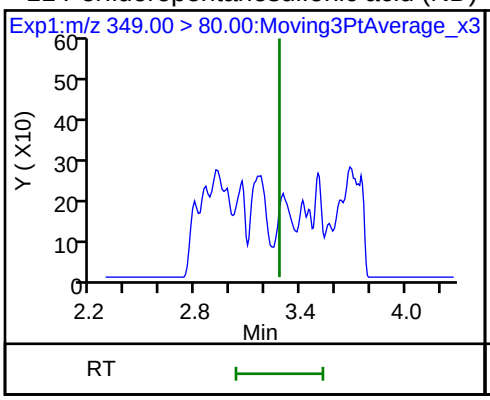


D 9 13C2 PFHxA



11 Perfluoropentanesulfonic acid (ND)



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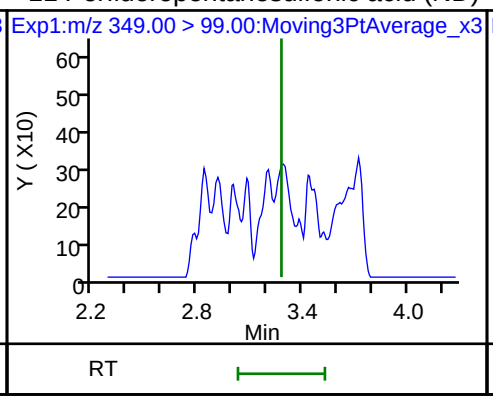
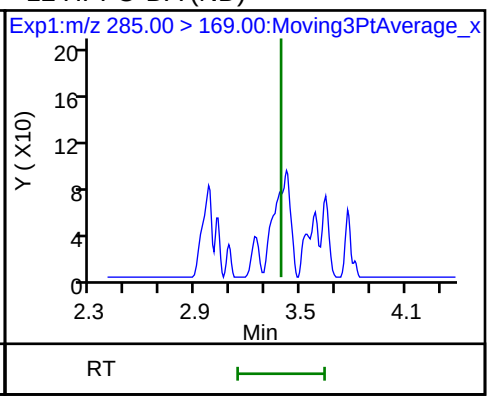
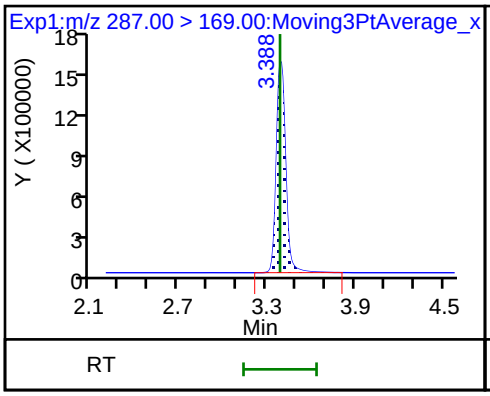


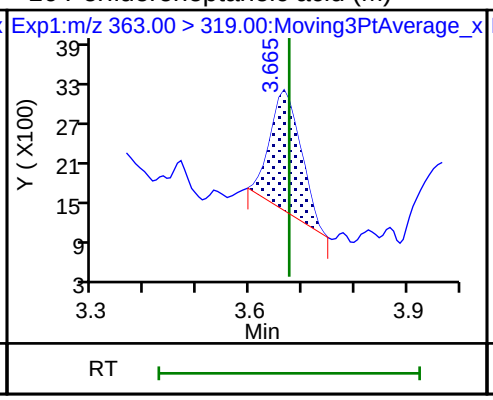
12 HPFO-DA (ND)



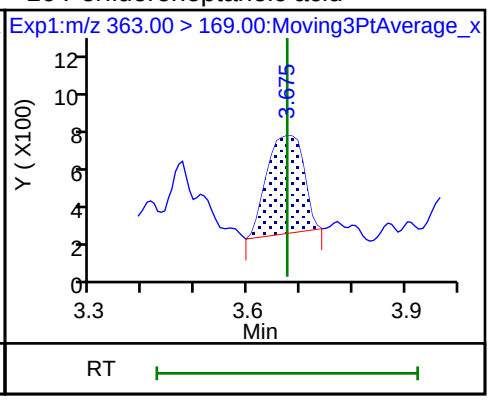
D 13 13C3 HFPO-DA



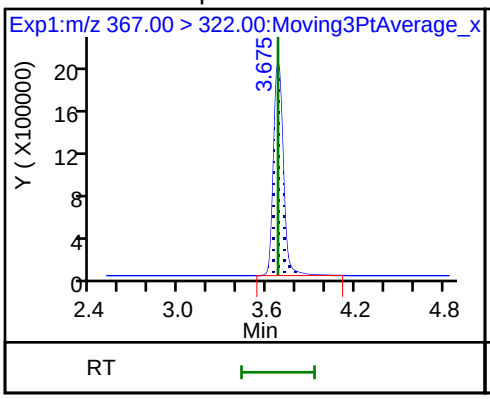
16 Perfluoroheptanoic acid (M)



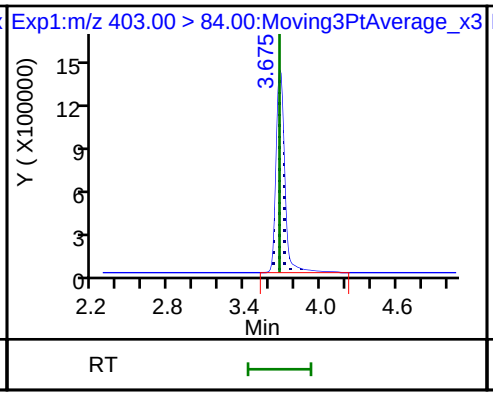
16 Perfluoroheptanoic acid



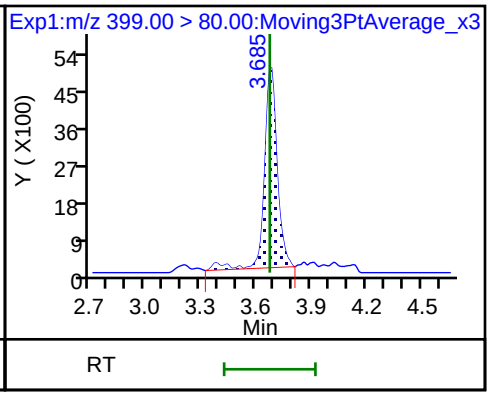
D 15 13C4 PFHpA



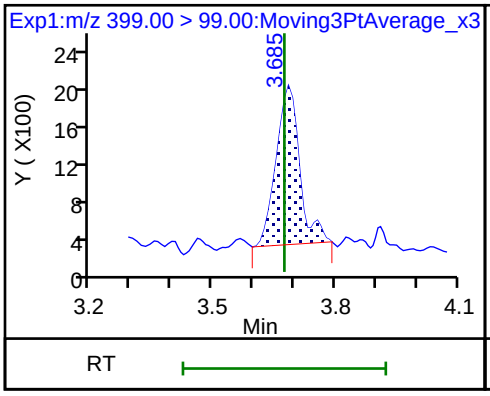
D 17 18O2 PFHxS



18 Perfluorohexanesulfonic acid



18 Perfluorohexanesulfonic acid



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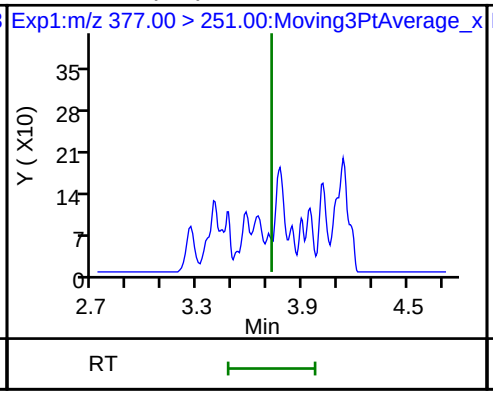

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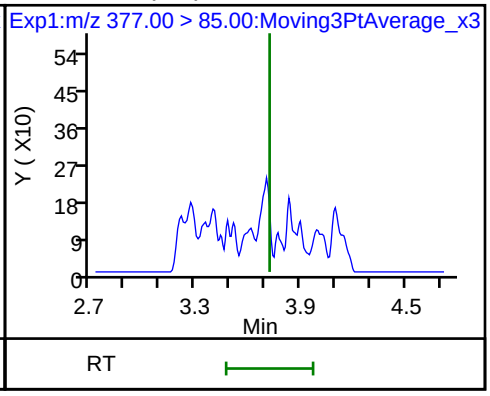

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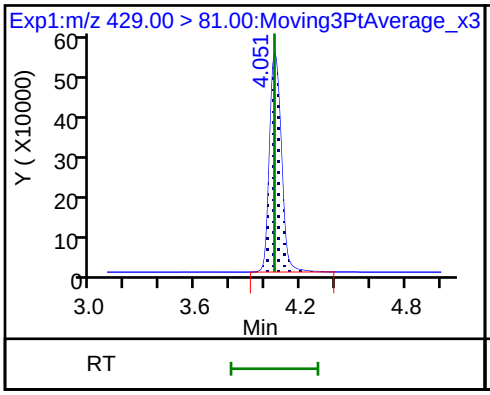

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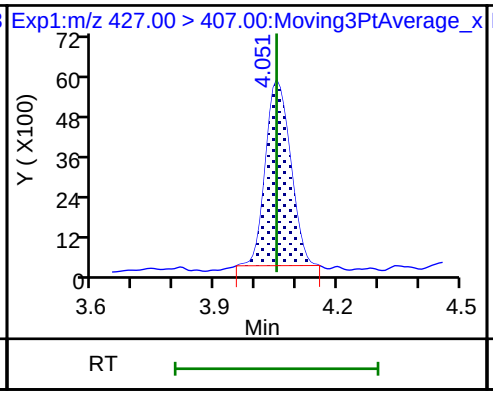
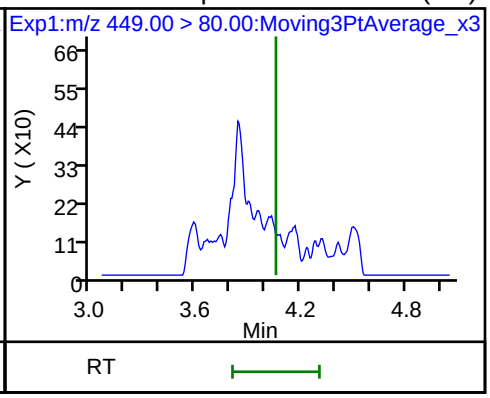


22 Perfluoroheptanesulfonic acid (ND)



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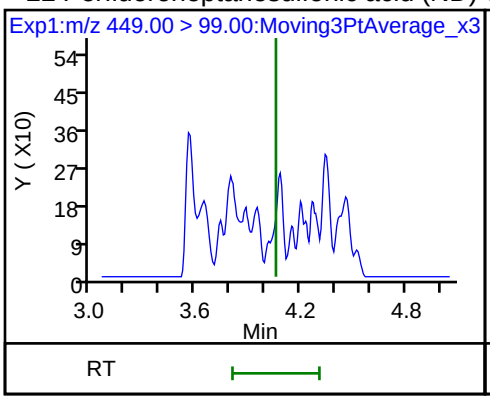
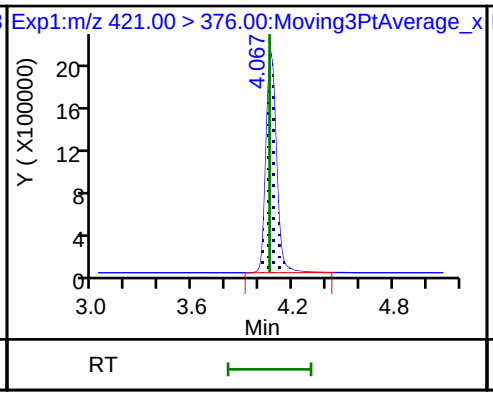
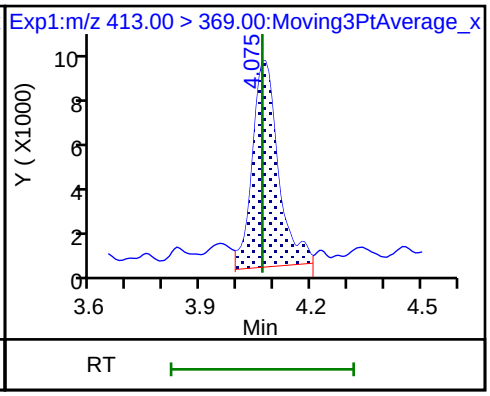


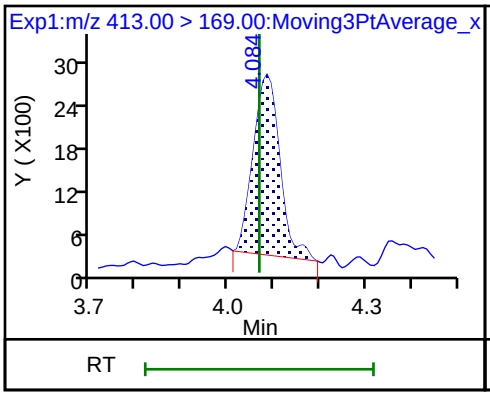
$ 23 13C8 PFOA



26 Perfluorooctanoic acid



26 Perfluorooctanoic acid



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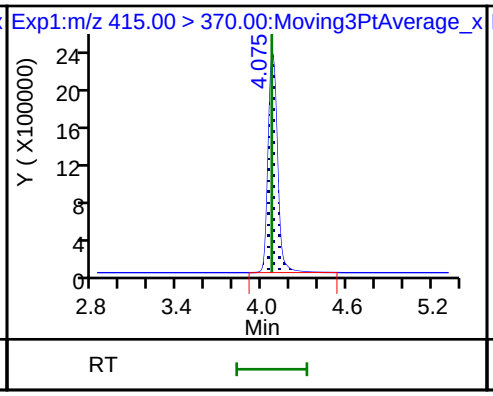

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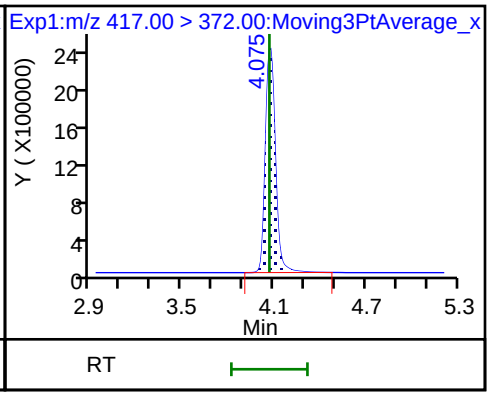
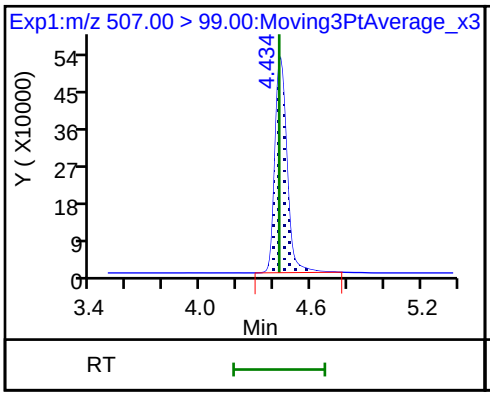


$ 27 13C8 PFOS



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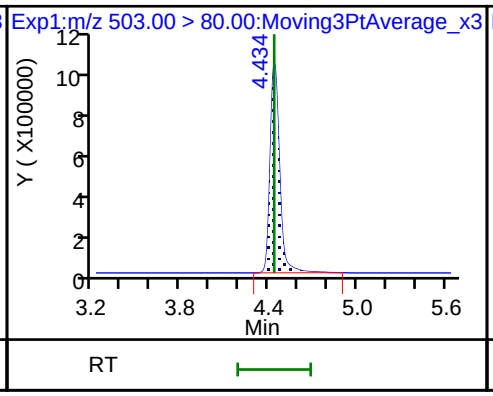
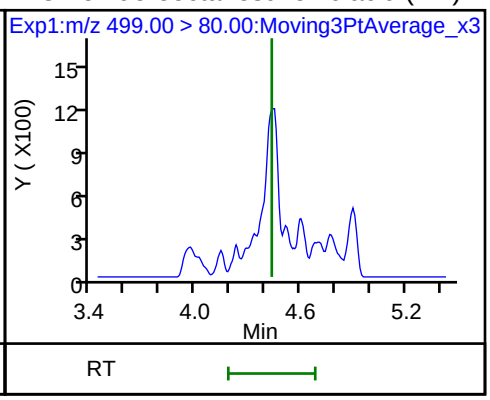
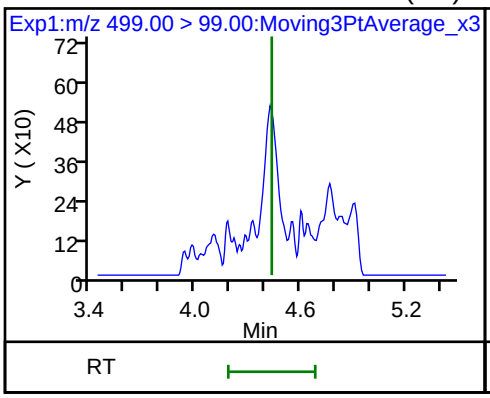


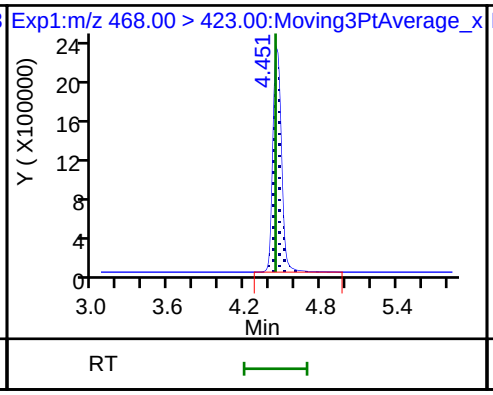
28 Perfluorooctanesulfonic acid (ND)



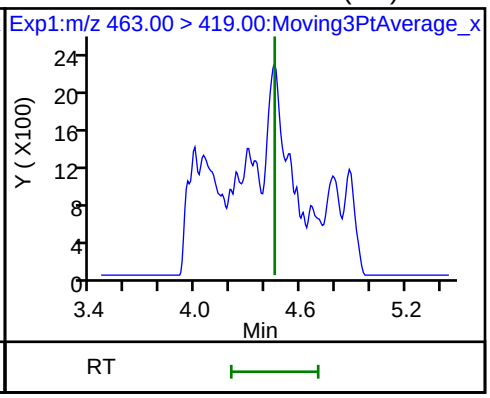
28 Perfluorooctanesulfonic acid (ND)



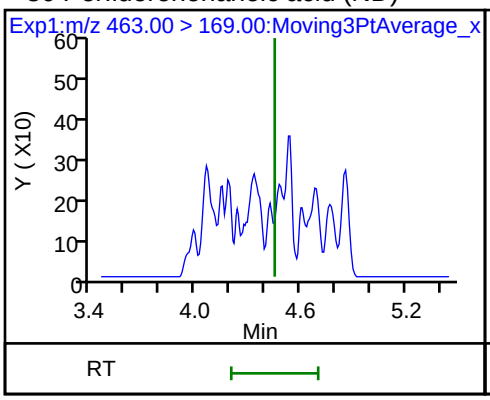
D 31 13C5 PFNA



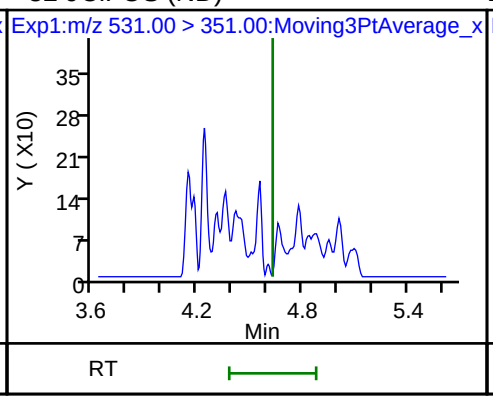
30 Perfluorononanoic acid (ND)



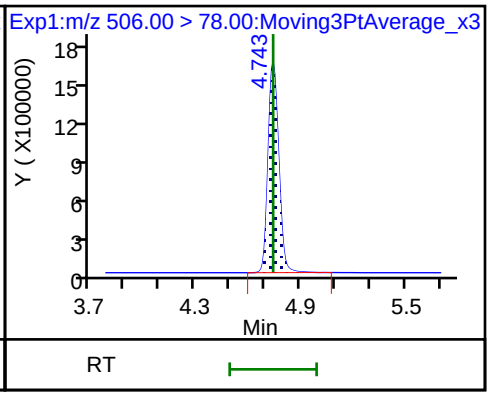
30 Perfluorononanoic acid (ND)



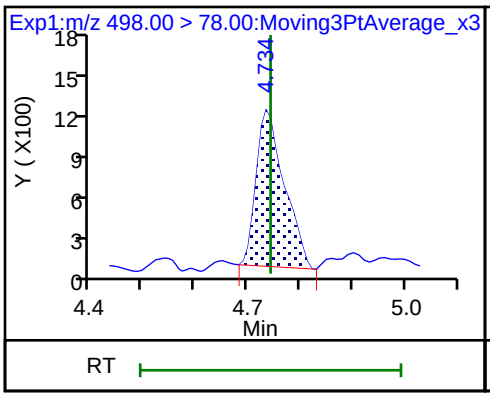
32 9ClFOS (ND)



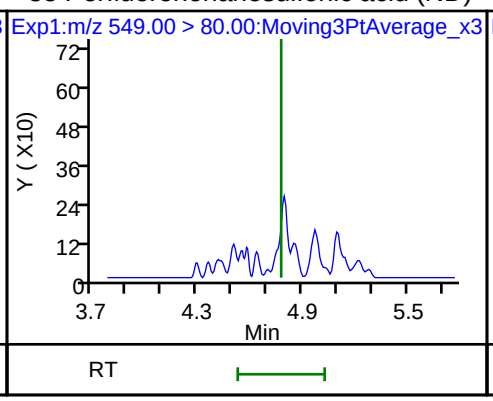
D 34 13C8 FOSA



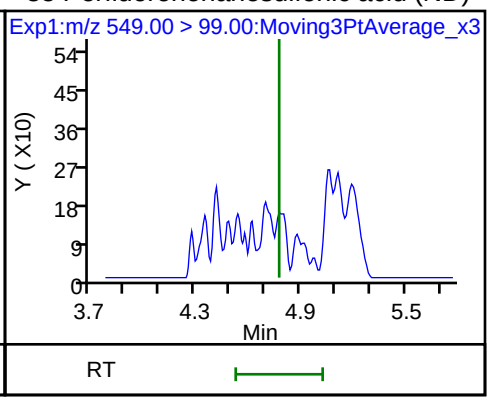
33 Perfluorooctanesulfonamide



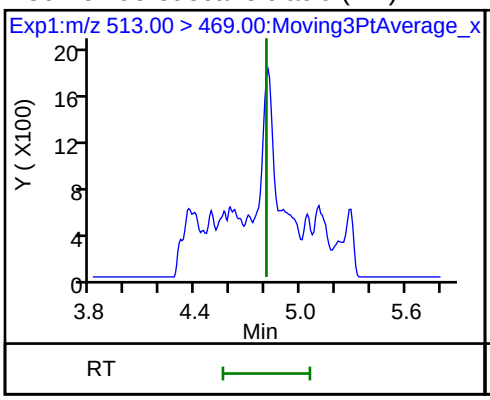
35 Perfluorononanesulfonic acid (ND)



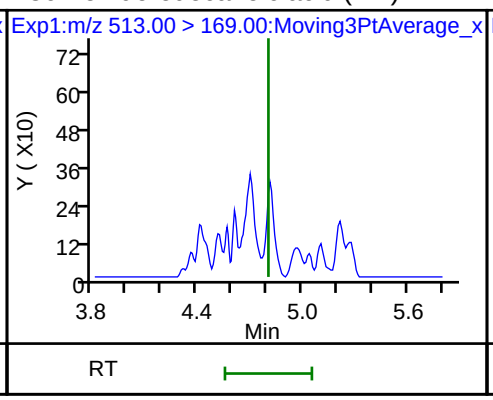
35 Perfluorononanesulfonic acid (ND)



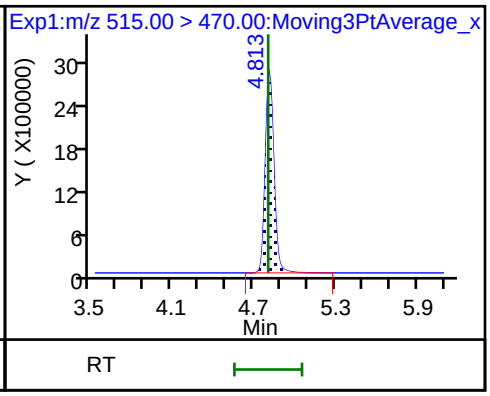
36 Perfluorodecanoic acid (ND)



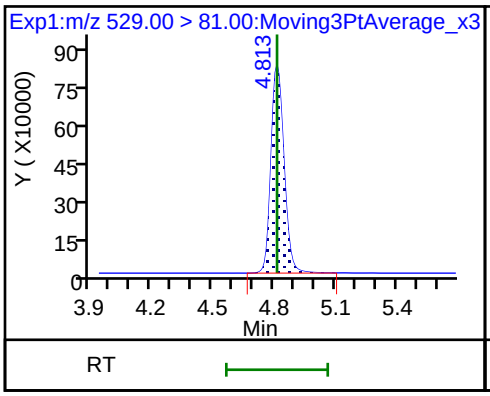
36 Perfluorodecanoic acid (ND)



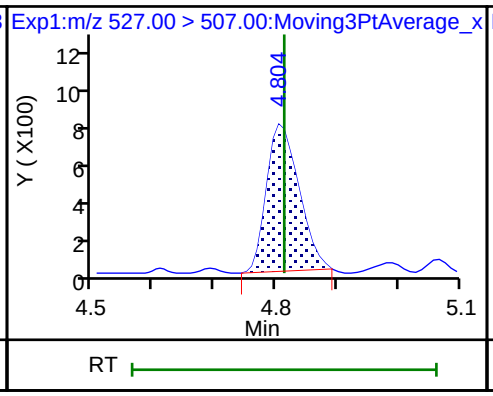
D 37 13C2 PFDA



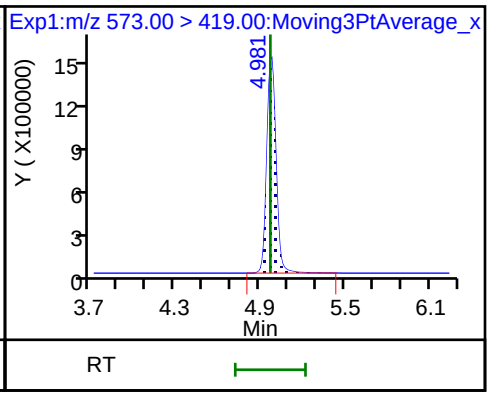
D 38 M2-8:2 FTS



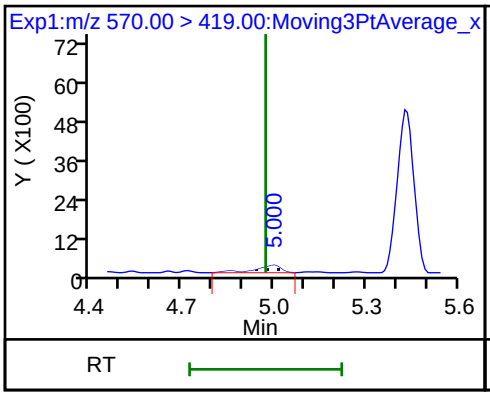
39 8:2 FTS



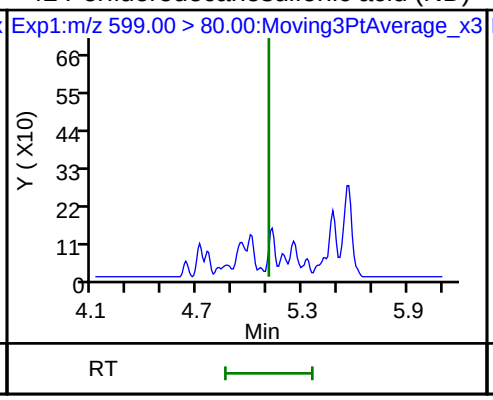
D 40 d3-NMeFOSAA



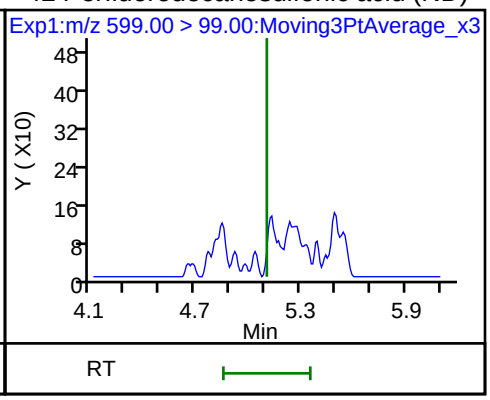
41 NMeFOSAA



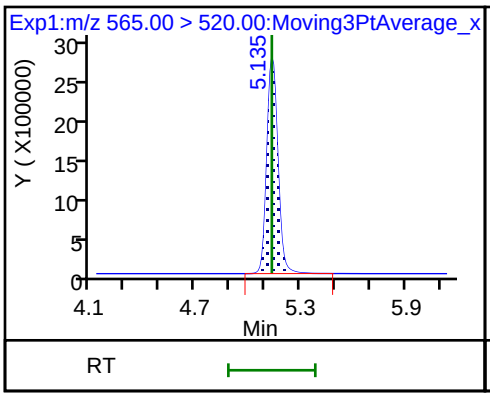
42 Perfluorodecanesulfonic acid (ND)



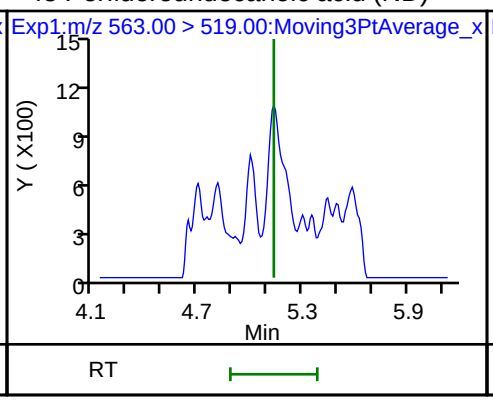
42 Perfluorodecanesulfonic acid (ND)



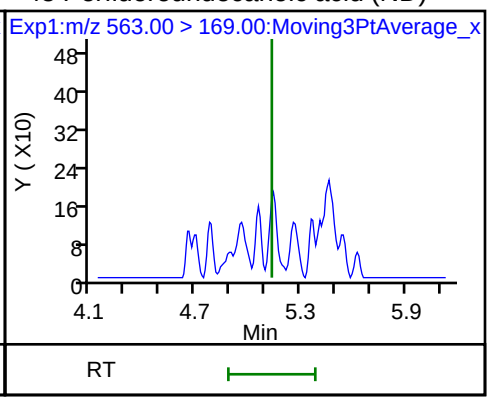
D 44 13C2 PFUnA



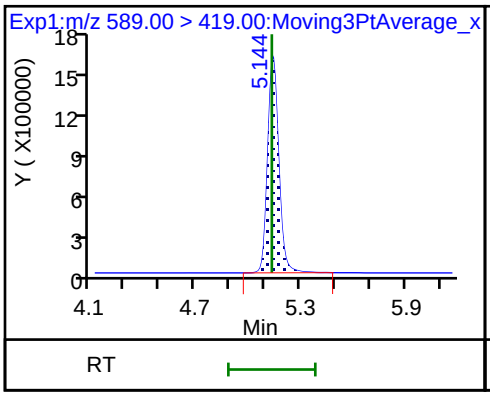
45 Perfluoroundecanoic acid (ND)



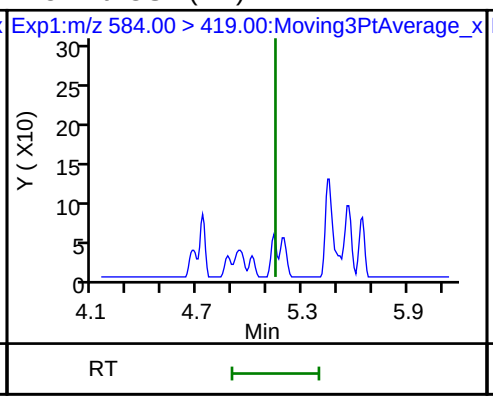
45 Perfluoroundecanoic acid (ND)



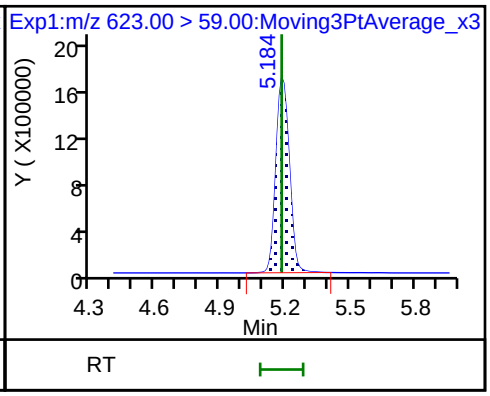
D 46 d5-NEtFOSAA



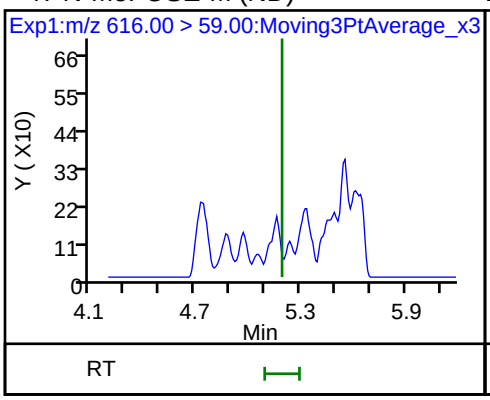
48 NEtFOSA (ND)



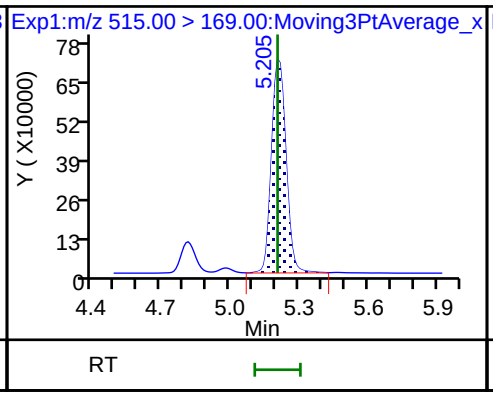
D 43 d7-N-MeFOSE-M



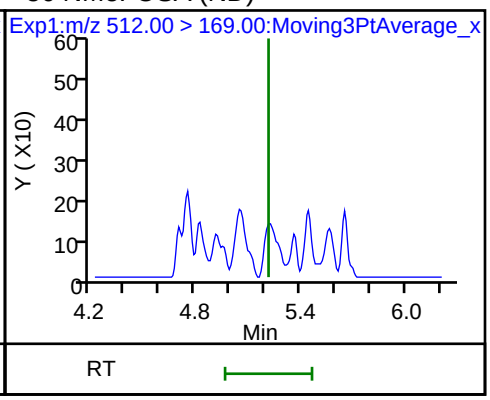
47 N-MeFOSE-M (ND)



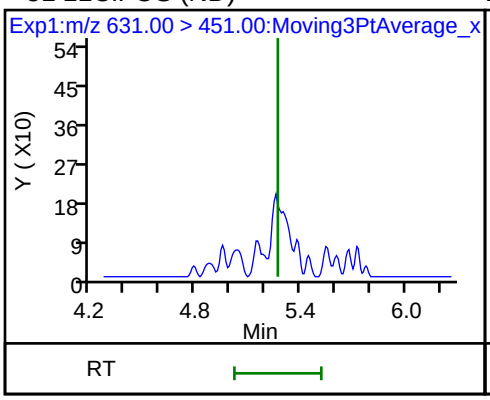
D 49 d-N-MeFOSA-M



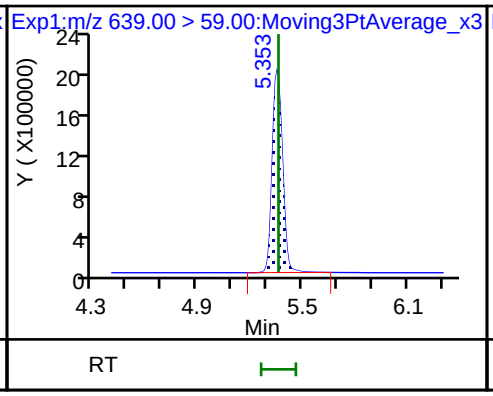
50 NMeFOSA (ND)



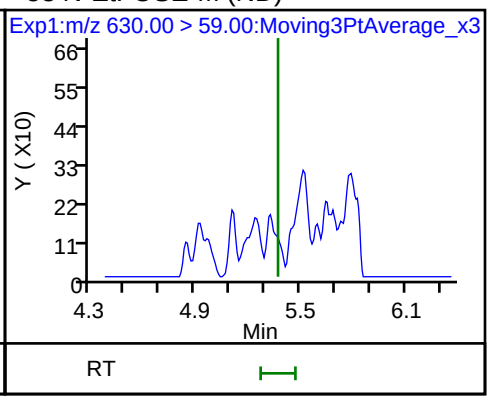
51 11ClFOS (ND)



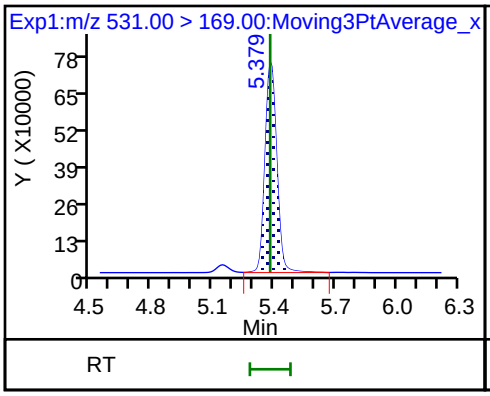
D 52 d9-N-EtFOSE-M



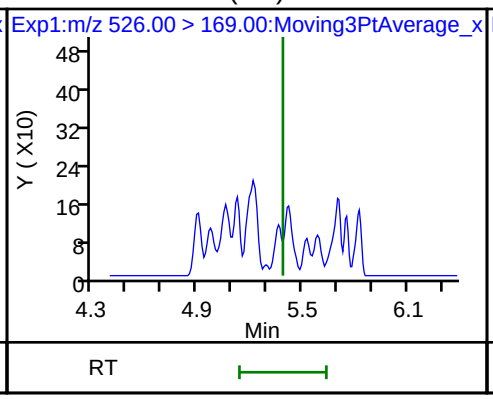
53 N-EtFOSE-M (ND)



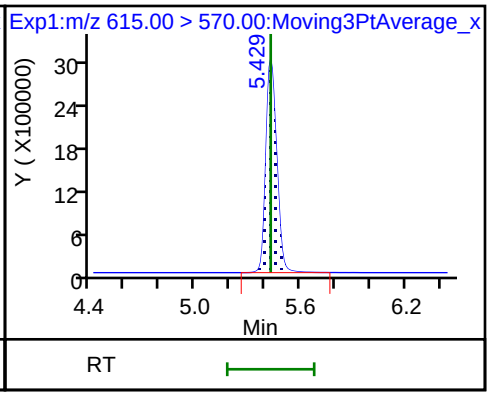
D 54 d-N-EtFOSA-M



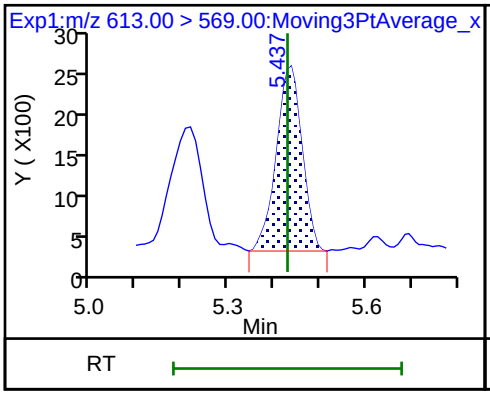
55 N-EtFOSA-M (ND)



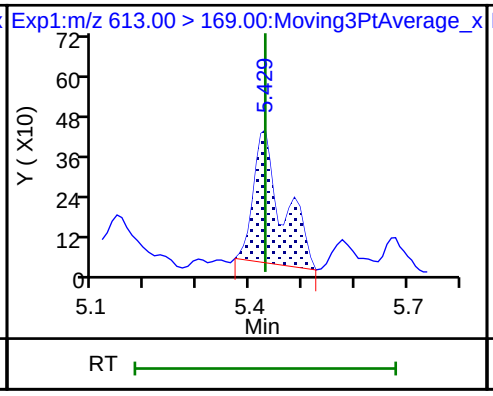
D 56 13C2 PFDoA



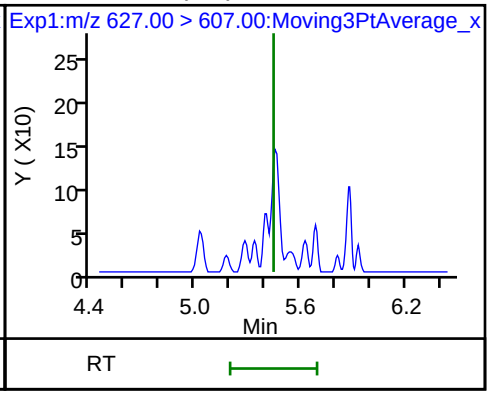
57 Perfluorododecanoic acid



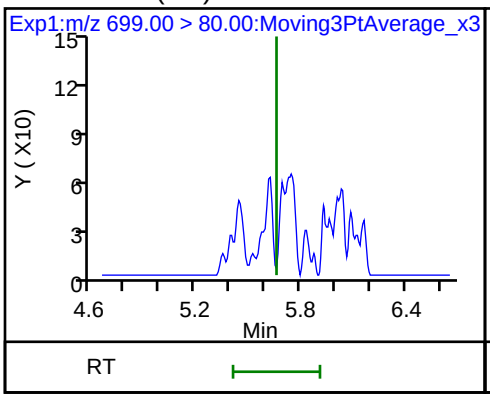
57 Perfluorododecanoic acid



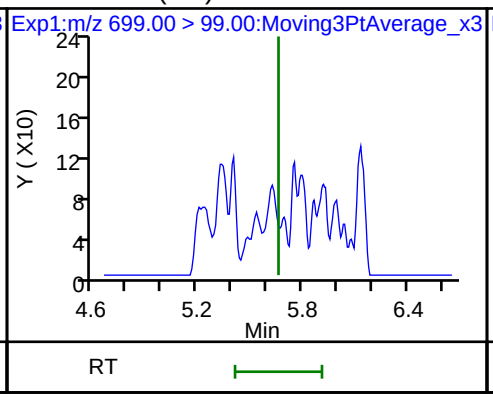
58 10:2 FTS (ND)



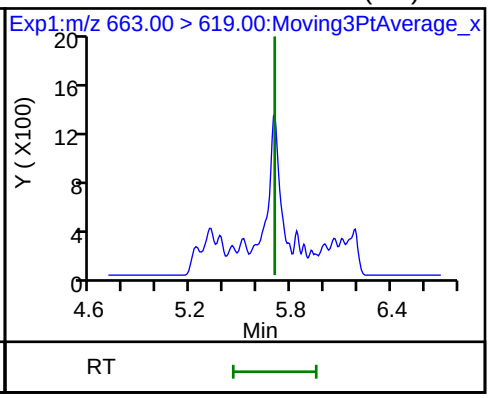
59 PFDoS (ND)



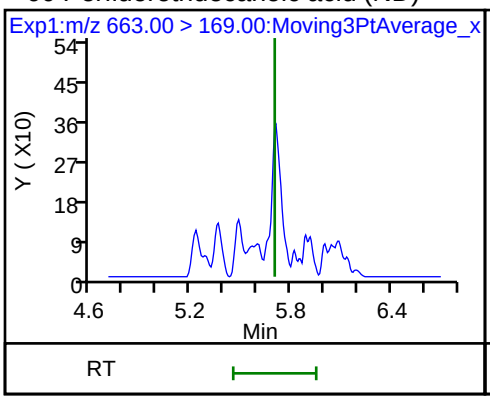
59 PFDoS (ND)



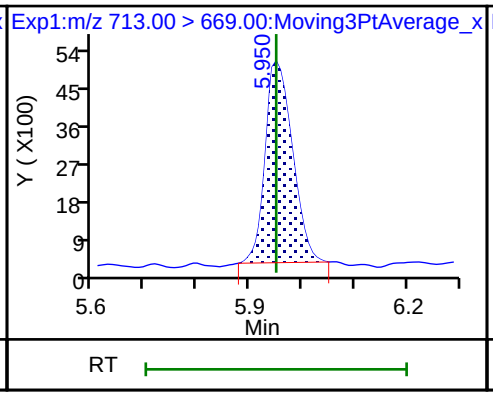
60 Perfluorotridecanoic acid (ND)



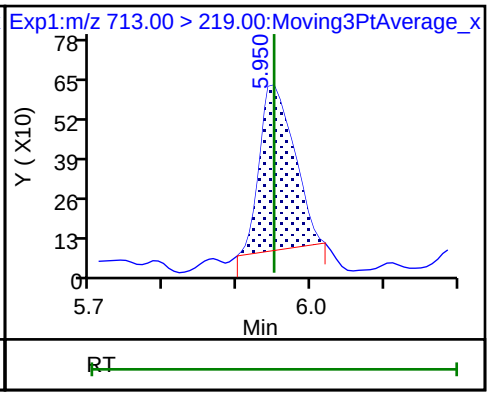
60 Perfluorotridecanoic acid (ND)



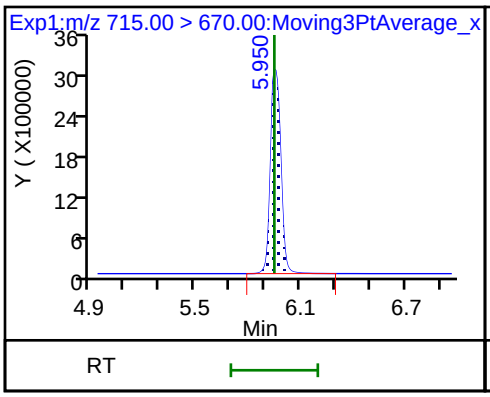
62 Perfluorotetradecanoic acid



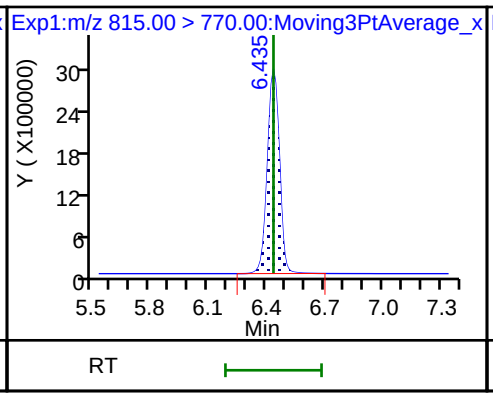
62 Perfluorotetradecanoic acid



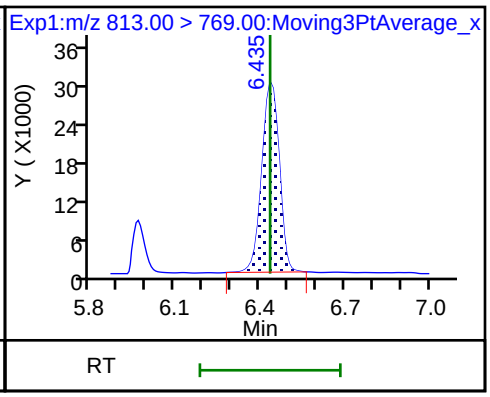
D 61 13C2 PFTeDA



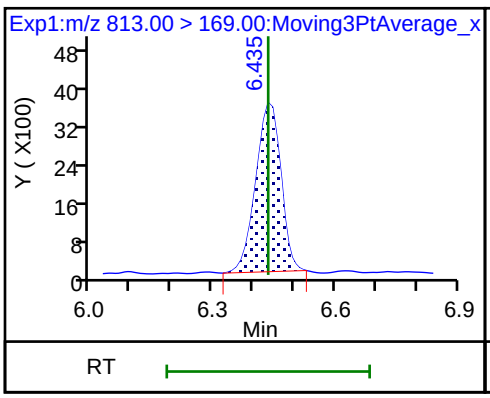
D 64 13C2 PFHxDA



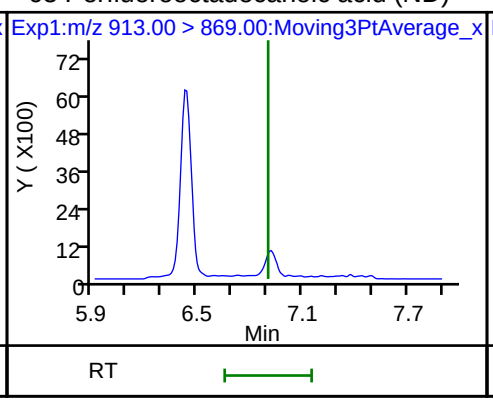
63 Perfluorohexadecanoic acid



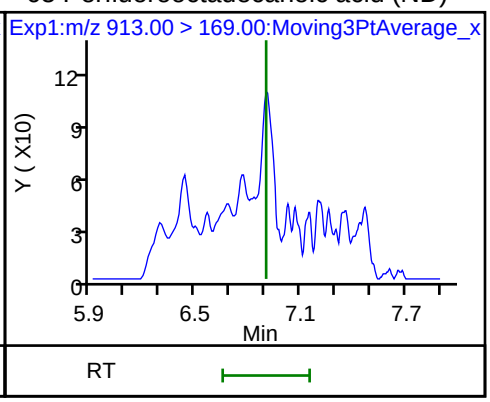
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid (ND)



65 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Sacramento

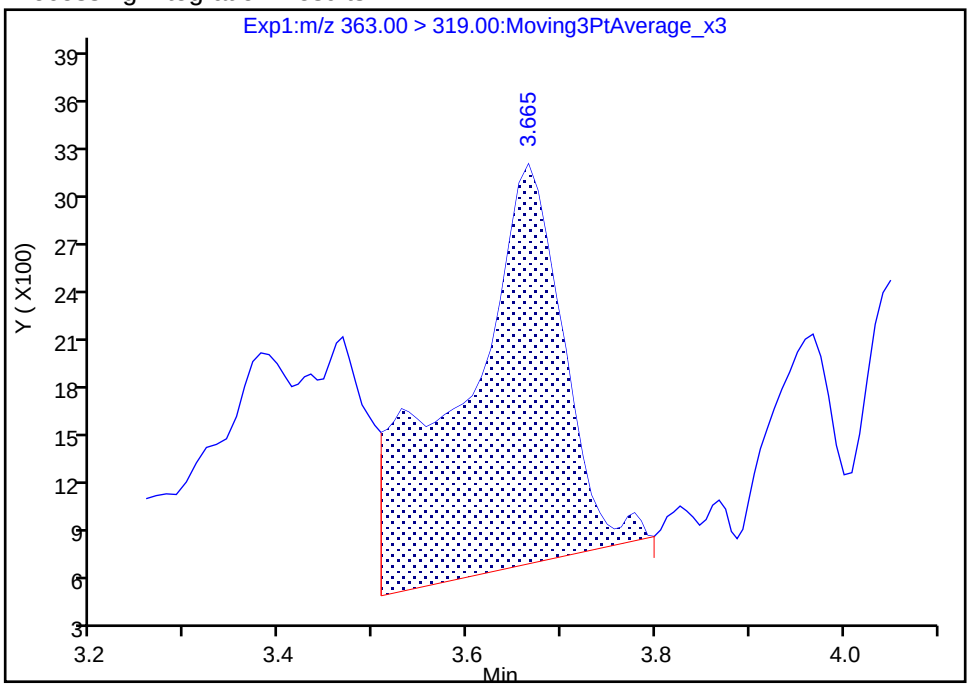
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103012.b\2020.09.10_A13_PFC_A_004.d
Injection Date: 10-Sep-2020 10:36:46 Instrument ID: A13
Lims ID: CCB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 50 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

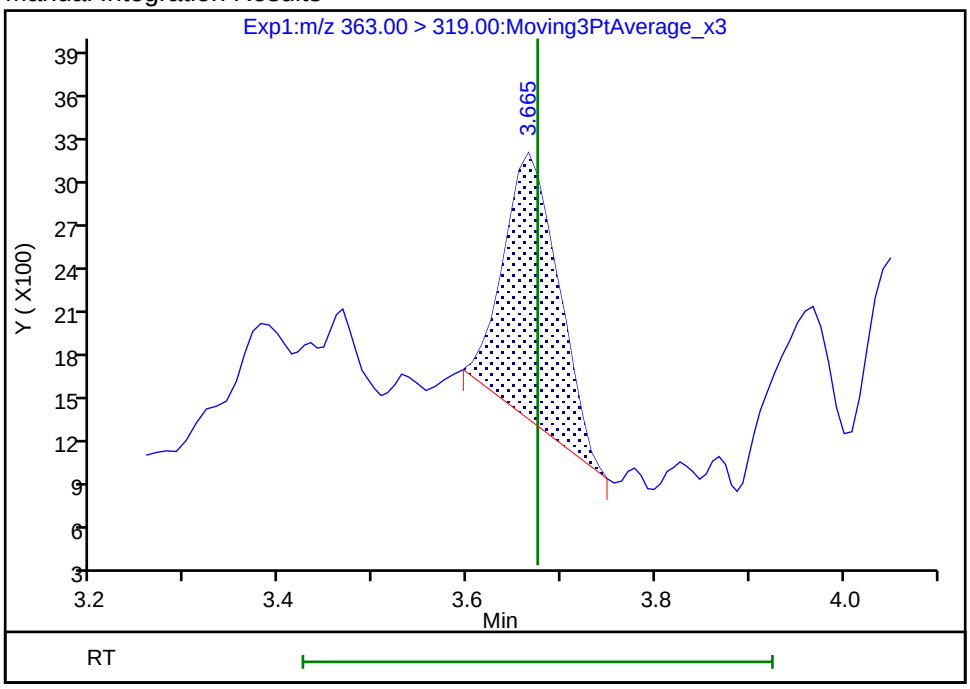
Processing Integration Results

RT: 3.66
Area: 18920
Amount: 0.005036
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 7467
Amount: 0.001988
Amount Units: ng/ml



Reviewer: hsuw, 10-Sep-2020 11:08:19
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 320-410486/9

Matrix: Water Lab File ID: 2020.09.08_A13_PFC_ICALX_011.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/08/2020 19:07

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410486 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.0088	U	0.050	0.0088
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.012	U	0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	0.015	U	0.050	0.015
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0063	U	0.050	0.0063
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	U	0.050	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.0068	U	0.050	0.0068
335-76-2	Perfluorodecanoic acid (PFDA)	0.0078	U	0.050	0.0078
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.028	U	0.050	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.014	U	0.050	0.014
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.033	U	0.050	0.033
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.00850	J	0.050	0.0073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0050	U	0.050	0.0050
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00804	J	0.050	0.0043
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.0048	U	0.050	0.0048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.014	U	0.050	0.014
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0080	U	0.050	0.0080
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.0088	U	0.050	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.078	U	0.50	0.078
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.50	0.048
27619-97-2	6:2 FTS	0.050	U	0.50	0.050
39108-34-4	8:2 FTS	0.050	U	0.50	0.050

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 320-410486/9

Matrix: Water Lab File ID: 2020.09.08_A13_PFC_ICALX_011.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 09/08/2020 19:07

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 410486 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	100		25-150
STL01893	13C5 PFPeA	99		25-150
STL00993	13C2 PFHxA	101		25-150
STL01892	13C4 PFHpA	104		25-150
STL00990	13C4 PFOA	102		25-150
STL00995	13C5 PFNA	106		25-150
STL00996	13C2 PFDA	103		25-150
STL00997	13C2 PFUnA	107		25-150
STL00998	13C2 PFDoA	100		25-150
STL02116	13C2 PFTeDA	98		25-150
STL02337	13C3 PFBS	106		25-150
STL00994	18O2 PFHxS	103		25-150
STL00991	13C4 PFOS	101		25-150
STL01056	13C8 FOSA	106		25-150
STL02118	d3-NMeFOSAA	104		25-150
STL02117	d5-NEtFOSAA	104		25-150
STL02279	M2-6:2 FTS	111		25-150
STL02280	M2-8:2 FTS	106		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 08-Sep-2020 19:07:39 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB (53)
Misc. Info.: Plate: 1 Rack: 2
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 09-Sep-2020 10:25:31 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1007

First Level Reviewer: novoaj Date: 09-Sep-2020 10:26:17
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.475	-0.001	0.610	9353836	2.51		100	28165	
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.866	0.0	0.706	7204810	2.48		99.2	23988	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.866	2.878	-0.012	1.000	17954	0.006061			2.7	
D 14 13C3 PFBS										
301.90 > 80.00	2.913	2.913	0.0	0.718	8948459	2.45		106	20529	
7 4:2 FTS										
327.00 > 307.00	3.215	3.225	-0.010	1.000	5353	0.001765			20.4	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.215	3.225	-0.010	0.792	2183652	2.44		105	918	
D 9 13C2 PFHxA										
315.00 > 270.00	3.257	3.268	-0.011	0.803	9044801	2.52		101	12642	
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.380	3.388	-0.008	0.833	6480303	2.52		101	4455	
D 15 13C4 PFHpA										
367.00 > 322.00	3.665	3.665	0.0	0.903	9173076	2.60		104	6686	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.665	3.675	-0.010	1.000	14826	0.003998	Target=3.85		2.3	
363.00 > 169.00	3.674	3.675	-0.001	1.003	3724		3.98(1.92-5.77)		2.9	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.665	3.675	-0.010	1.000	21953	0.008045	Target=3.25		22.9	M
399.00 > 99.00	3.674	3.675	-0.001	1.003	9276		2.37(1.62-4.87)		7.2	M
D 17 18O2 PFHxS										
403.00 > 84.00	3.665	3.675	-0.010	0.903	5801999	2.43		103	69339	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
19 DONA										
377.00 > 251.00	3.722	3.722	0.0	0.841	15214	0.001715	Target=2.76		17.4	
377.00 > 85.00	3.713	3.722	-0.009	0.839	5657		2.69(1.38-4.14)		13.4	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.042	4.042	0.0	0.996	2708399	2.63		111	4579	
21 6:2 FTS										
427.00 > 407.00	4.034	4.042	-0.008	0.998	6369	0.002321			11.9	
$ 23 13C8 PFOA										
421.00 > 376.00	4.059	4.059	0.0	1.000	9314260	2.38		97.4	25757	
D 24 13C4 PFOA										
417.00 > 372.00	4.059	4.067	-0.008	1.000	10965976	2.54		102	13364	
* 25 13C2 PFOA										
415.00 > 370.00	4.059	4.067	-0.008		10961287	2.50			4214	
26 Perfluorooctanoic acid										M
413.00 > 369.00	4.059	4.067	-0.008	1.000	47192	0.0105	Target=2.95		9.2	M
413.00 > 169.00	4.059	4.067	-0.008	1.000	14280		3.30(1.47-4.42)		18.4	M
$ 27 13C8 PFOS										
507.00 > 99.00	4.426	4.426	0.0	1.091	2096105	2.30		96.4	852	
D 29 13C4 PFOS										
503.00 > 80.00	4.426	4.426	0.0	1.091	4126863	2.42		101	2890	
D 31 13C5 PFNA										
468.00 > 423.00	4.443	4.452	-0.009	1.095	10556937	2.65		106	31181	
32 9ClFOS										
531.00 > 351.00	4.621	4.629	-0.008	1.044	11385	0.002636			8.6	
D 34 13C8 FOSA										
506.00 > 78.00	4.734	4.734	0.0	1.166	6482471	2.65		106	6372	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.734	4.734	0.0	1.000	8220	0.003378			15.2	
D 37 13C2 PFDA										
515.00 > 470.00	4.804	4.804	0.0	1.184	12447492	2.58		103	6753	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.804	4.813	-0.009	1.184	3458687	2.54		106	3755	
39 8:2 FTS										
527.00 > 507.00	4.813	4.813	0.0	1.002	8220	0.002303			31.2	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.970	4.971	-0.001	1.225	6472891	2.60		104	4110	
41 NMeFOSAA										M
570.00 > 419.00	4.970	4.980	-0.010	1.000	71795	0.0344			20.3	M
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.096	5.106	-0.010	1.151	3544	0.003115	Target=2.36		9.1	
599.00 > 99.00	5.096	5.106	-0.010	1.151	1649		2.15(1.18-3.54)		6.5	
D 44 13C2 PFUnA										
565.00 > 520.00	5.125	5.135	-0.010	1.263	12650929	2.68		107	9871	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.134	5.135	-0.001	1.265	6282636	2.60		104	5162	
48 NEtFOSA										M
584.00 > 419.00	5.144	5.144	0.0	1.002	66227	0.0340			68.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.183	5.183	0.0	1.277	7673762	12.5		100	2539	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.204	5.205	-0.001	1.282	2988270	2.59		104	54.2	
50 NMeFOSA										
512.00 > 169.00	5.216	5.216	0.0	1.002	2611	0.002222			5.7	
51 11ClFOS										
631.00 > 451.00	5.269	5.269	0.0	1.190	19662	0.002638			14.6	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.345	5.354	-0.009	1.317	9048716	12.6		101	2765	
53 N-EtFOSE-M										
630.00 > 59.00	5.371	5.371	0.0	1.005	2280	0.003042			4.6	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.380	5.380	0.0	1.325	2909921	2.64		106	233	
55 N-EtFOSA-M										
526.00 > 169.00	5.388	5.388	0.0	1.002	2438	0.001972			5.4	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.421	5.429	-0.008	1.000	29530	0.006376	Target=9.05		14.5	
613.00 > 169.00	5.429	5.429	0.0	1.002	3612		8.18(4.52-13.57)		15.8	
D 56 13C2 PFDoA										
615.00 > 570.00	5.421	5.429	-0.008	1.336	12693174	2.49		99.8	9570	
58 10:2 FTS										
627.00 > 607.00	5.438	5.446	-0.008	1.132	4146	0.001759			9.7	
59 PFDoS										
699.00 > 80.00	5.671	5.663	0.008	1.281	1456	0.003278	Target=0.57		10.8	
699.00 > 99.00	5.663	5.663	0.0	1.279	2141		0.68(0.29-0.86)		8.6	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.702	5.703	-0.001	1.052	24113	0.005067	Target=7.06		17.7	
663.00 > 169.00	5.702	5.703	-0.001	1.052	2897		8.32(3.53-10.59)		12.0	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.950	5.950	0.0	1.466	12353730	2.46		98.3	24110	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.950	5.950	0.0	1.000	41323	0.008496	Target=11.23		25.9	
713.00 > 219.00	5.950	5.950	0.0	1.000	3466		11.92(5.62-16.85)		29.9	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.435	6.435	0.0	1.585	12586771	2.41		96.3	6826	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.435	6.435	0.0	1.000	159136	0.008562	Target=9.45		42.3	
813.00 > 169.00	6.435	6.435	0.0	1.000	19484		8.17(4.72-14.17)		58.8	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.911	6.912	-0.001	1.074	39603	0.0108	Target=11.13		13.4	
913.00 > 169.00	6.911	6.912	-0.001	1.074	3172		12.49(5.56-16.69)		12.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL0_00051 Amount Added: 1.00 Units: mL

Report Date: 09-Sep-2020 10:26:48 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d

Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13

Lims ID: ICB

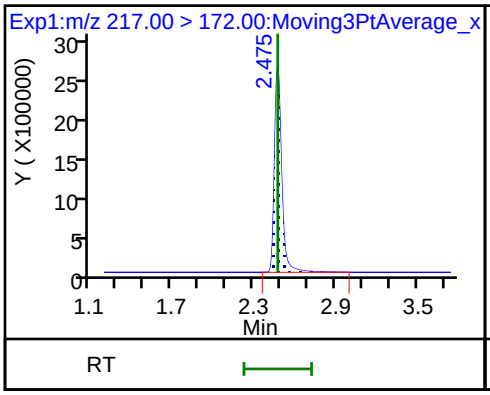
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9

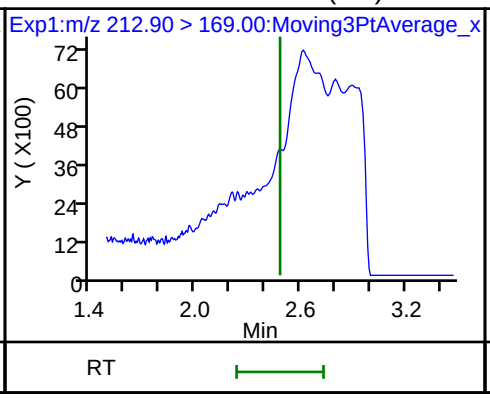
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

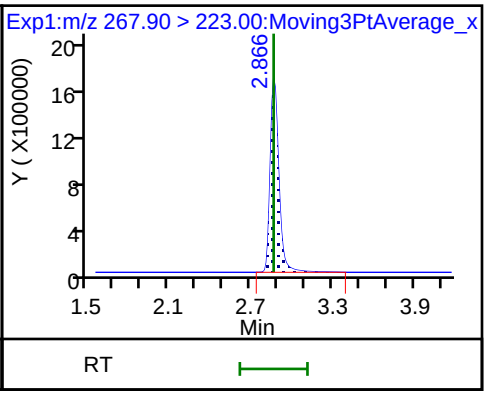
D 1 13C4 PFBA



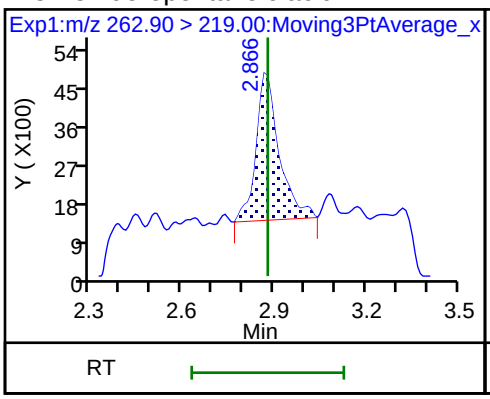
2 Perfluorobutanoic acid (ND)



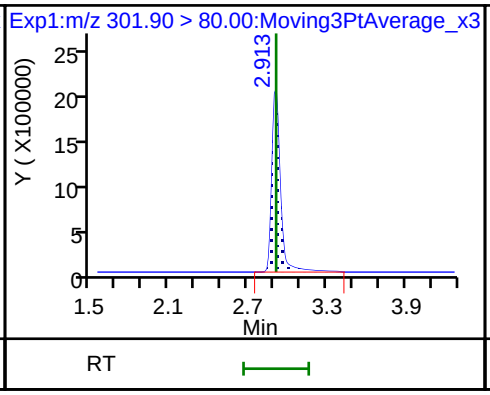
D 4 13C5 PFPeA



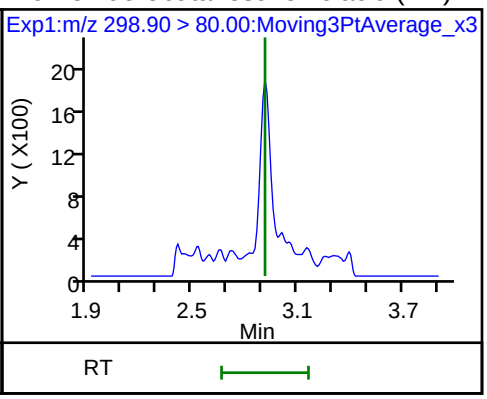
5 Perfluoropentanoic acid



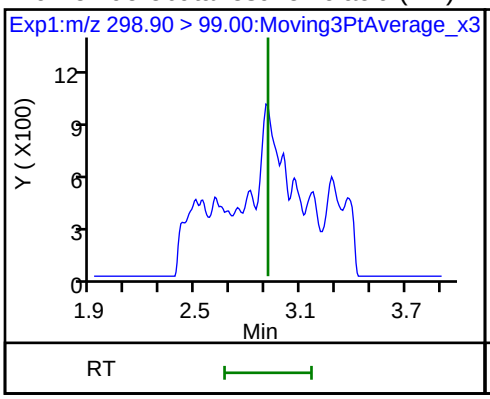
D 14 13C3 PFBS



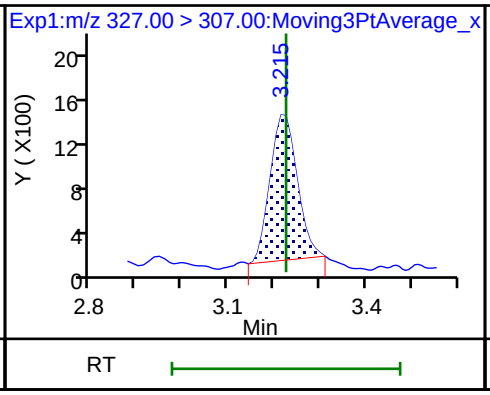
6 Perfluorobutanesulfonic acid (ND)



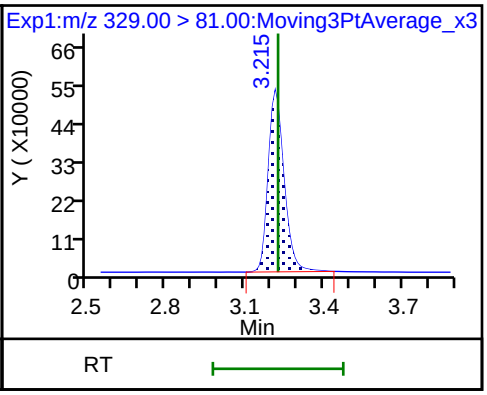
6 Perfluorobutanesulfonic acid (ND)



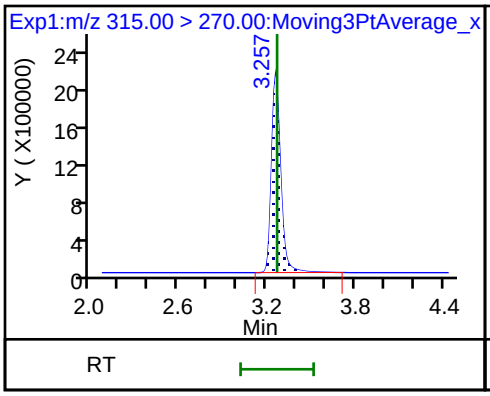
7 4:2 FTS



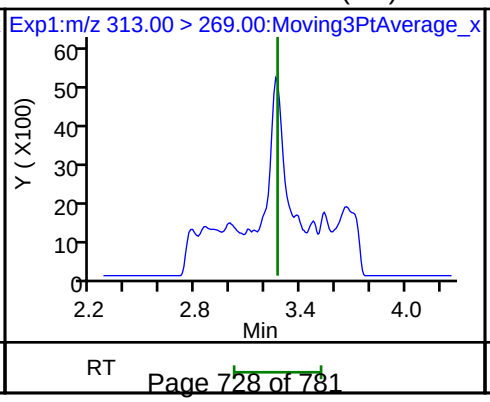
D 8 M2-4:2 FTS



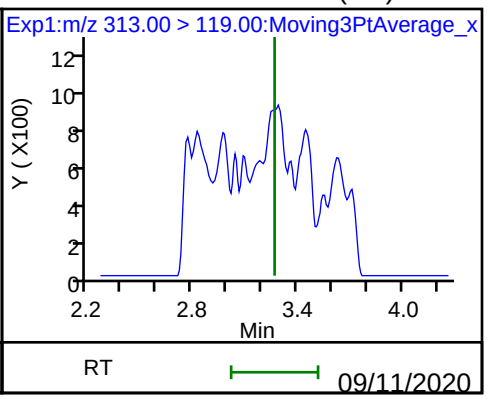
D 9 13C2 PFHxA



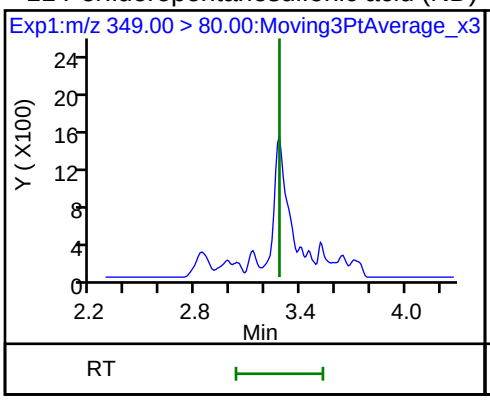
10 Perfluorohexanoic acid (ND)



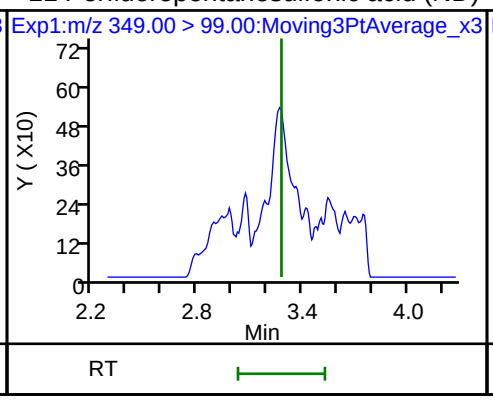
10 Perfluorohexanoic acid (ND)



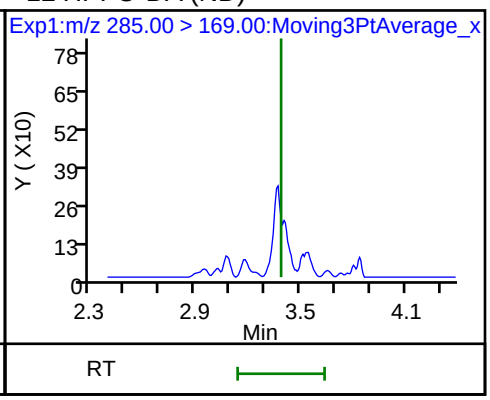
11 Perfluoropentanesulfonic acid (ND)



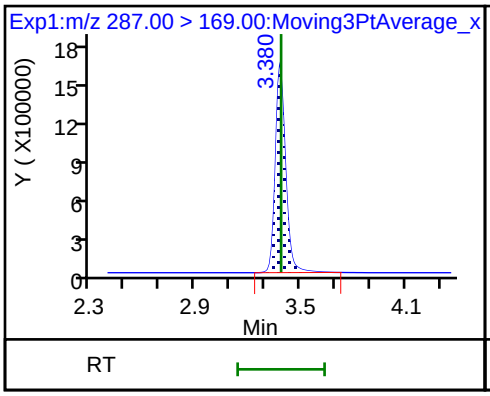
11 Perfluoropentanesulfonic acid (ND)



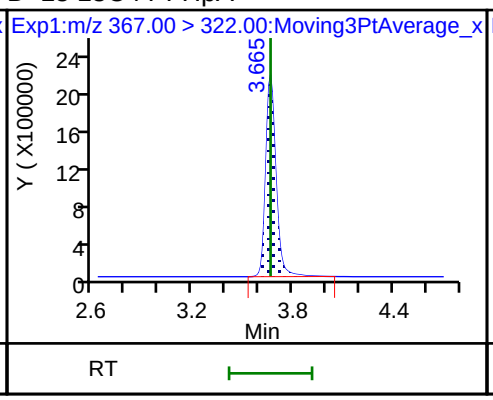
12 HPFO-DA (ND)



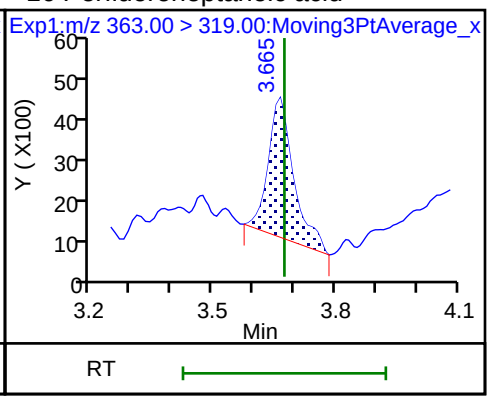
D 13 13C3 HFPO-DA



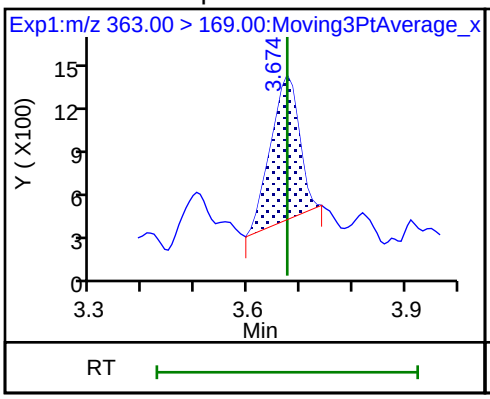
D 15 13C4 PFHpA



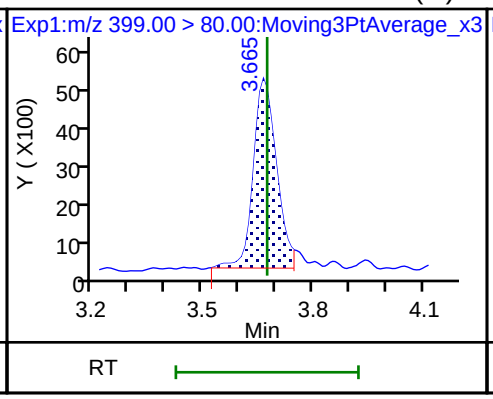
16 Perfluoroheptanoic acid



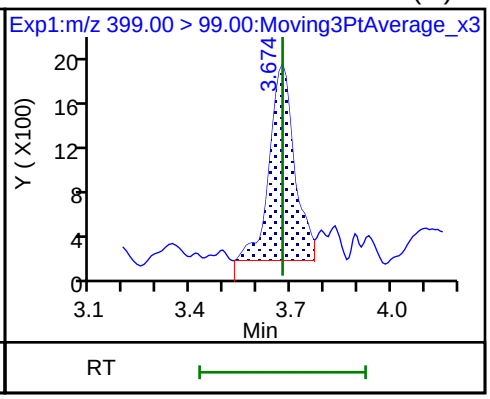
16 Perfluoroheptanoic acid



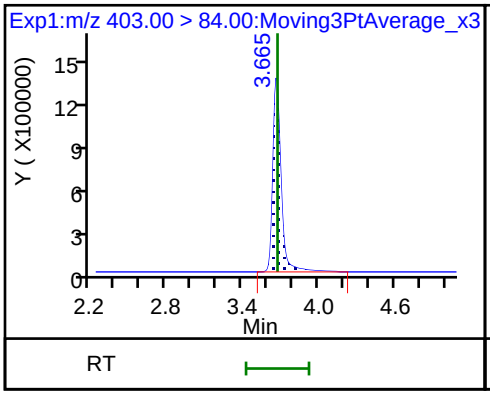
18 Perfluorohexanesulfonic acid (M)



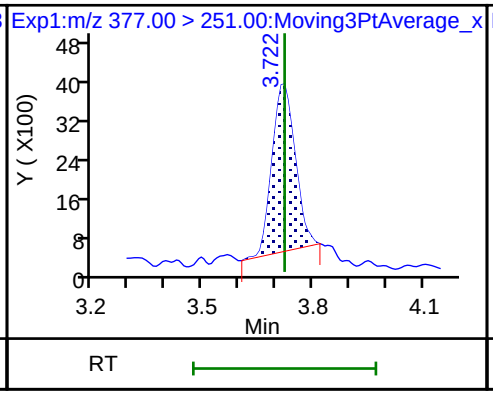
18 Perfluorohexanesulfonic acid (M)



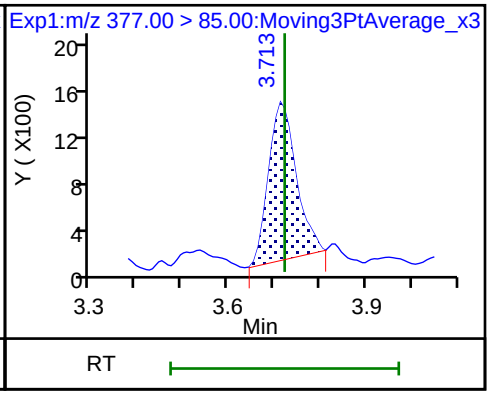
D 17 18O2 PFHxS



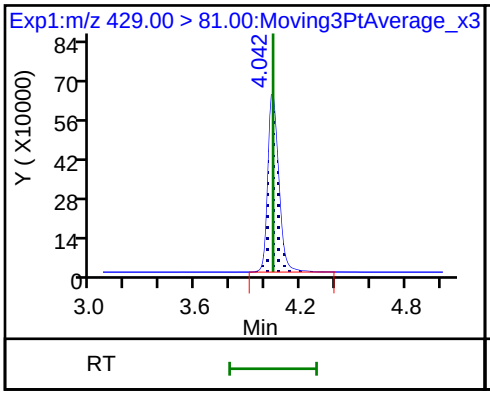
19 DONA



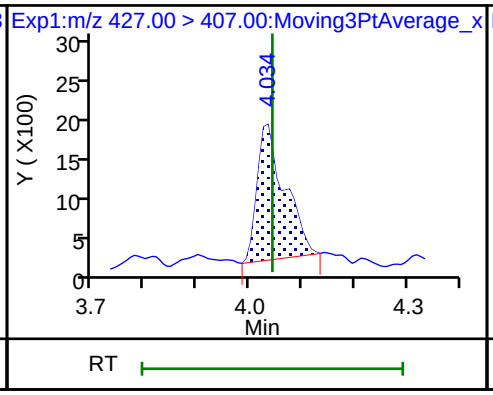
19 DONA



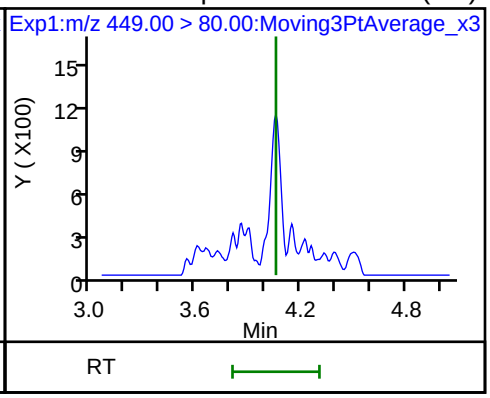
D 20 M2-6:2 FTS



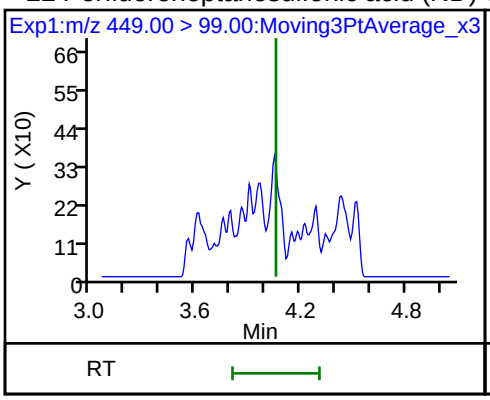
21 6:2 FTS



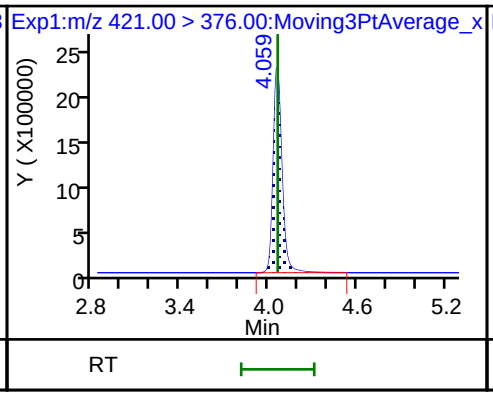
22 Perfluoroheptanesulfonic acid (ND)



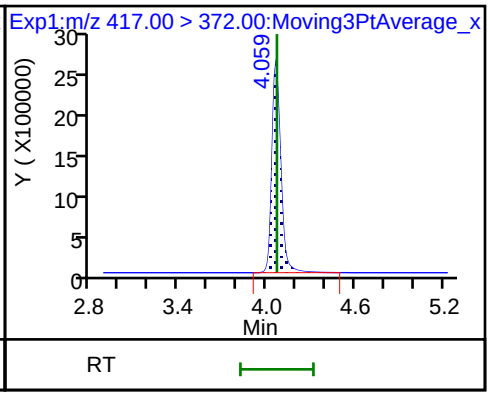
22 Perfluoroheptanesulfonic acid (ND)



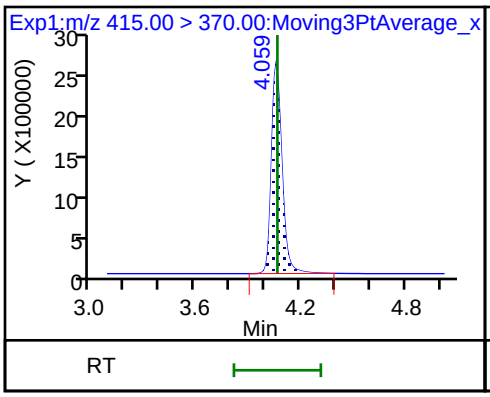
$ 23 13C8 PFOA



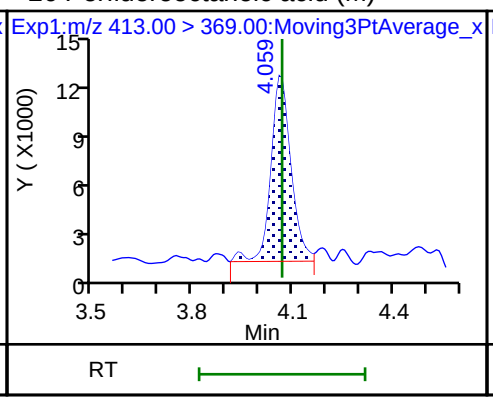
D 24 13C4 PFOA



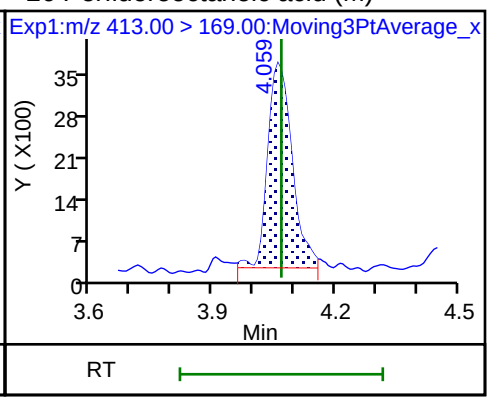
* 25 13C2 PFOA



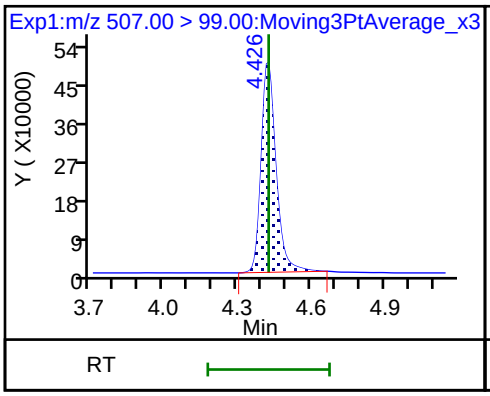
26 Perfluorooctanoic acid (M)



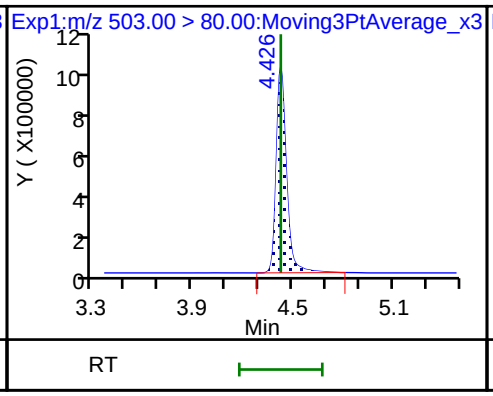
26 Perfluorooctanoic acid (M)



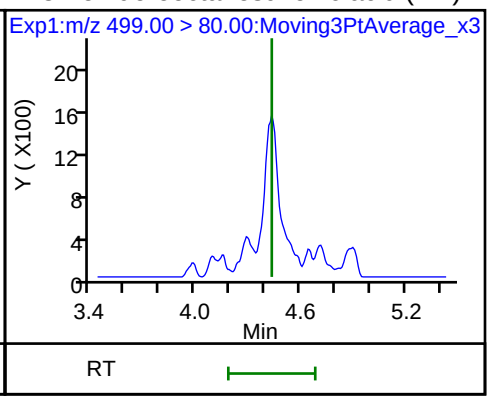
$ 27 13C8 PFOS



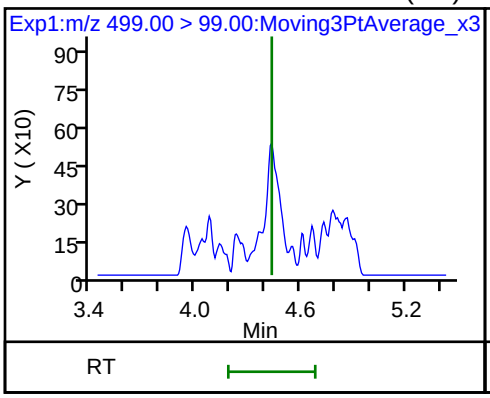
D 29 13C4 PFOS



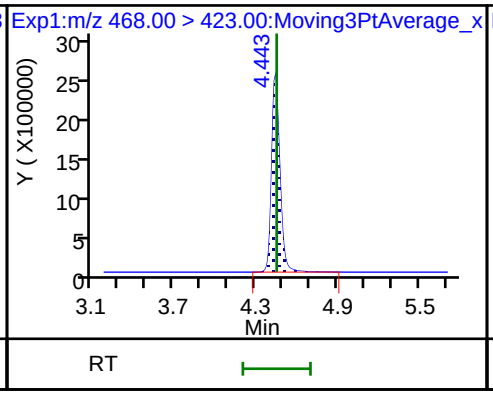
28 Perfluorooctanesulfonic acid (ND)



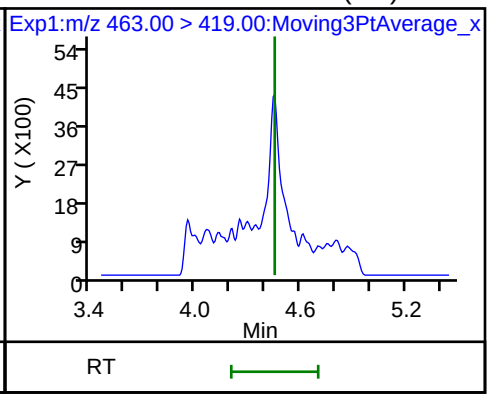
28 Perfluorooctanesulfonic acid (ND)



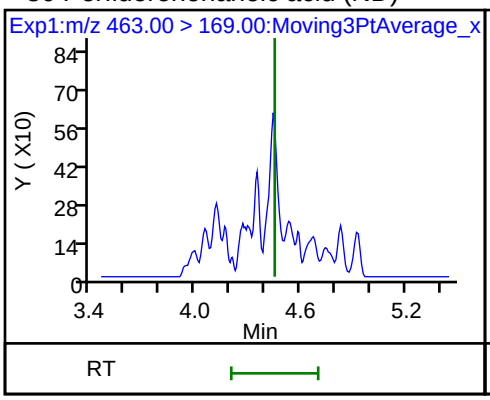
D 31 13C5 PFNA



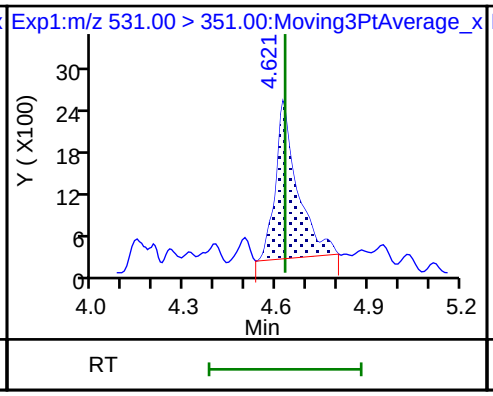
30 Perfluorononanoic acid (ND)



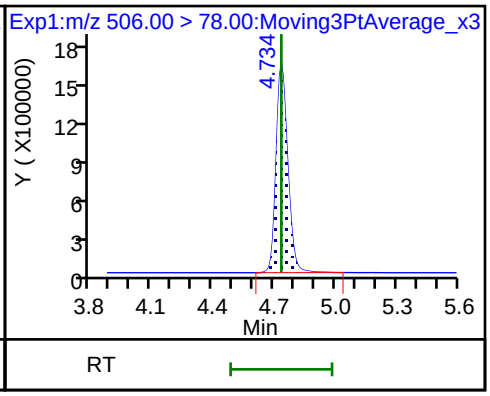
30 Perfluorononanoic acid (ND)



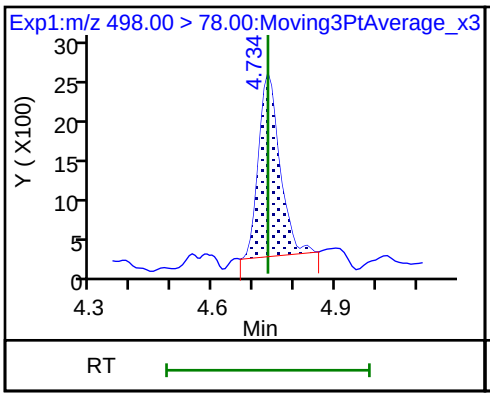
32 9ClFOS



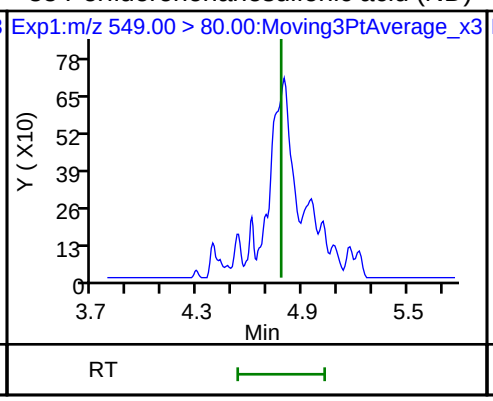
D 34 13C8 FOSA



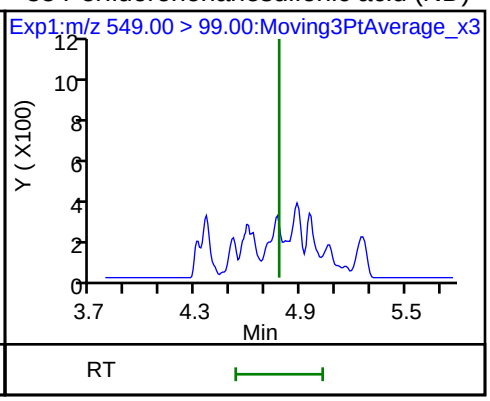
33 Perfluorooctanesulfonamide



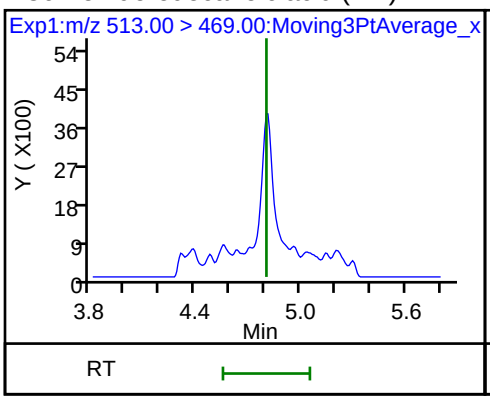
35 Perfluorononanesulfonic acid (ND)



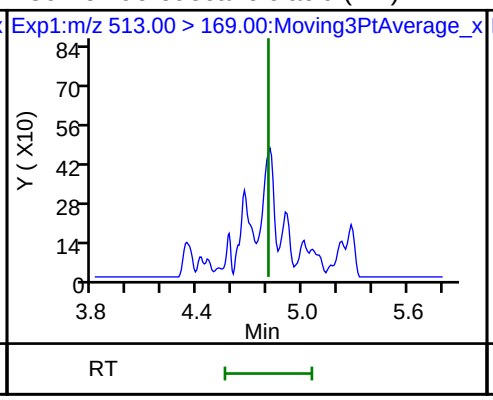
35 Perfluorononanesulfonic acid (ND)



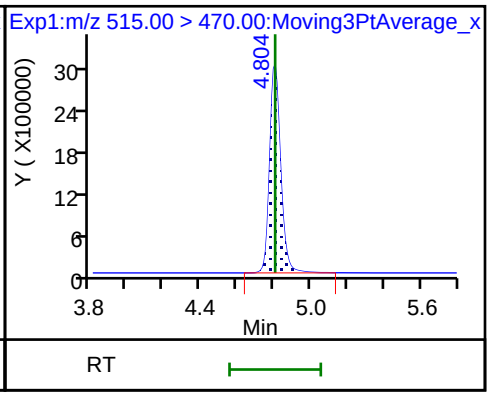
36 Perfluorodecanoic acid (ND)



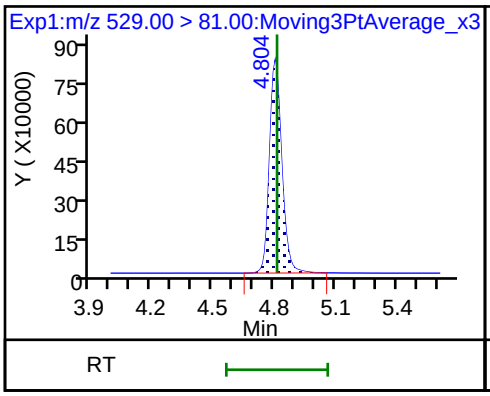
36 Perfluorodecanoic acid (ND)



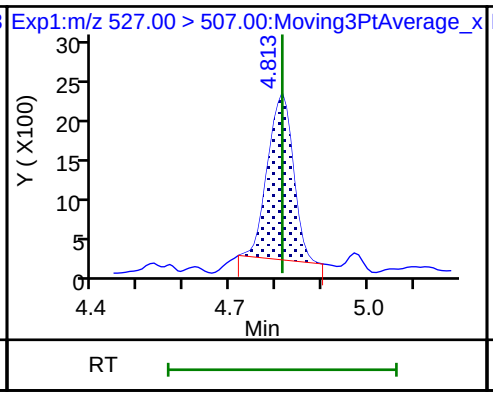
D 37 13C2 PFDA



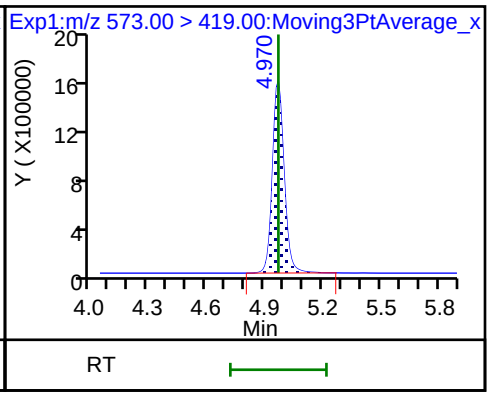
D 38 M2-8:2 FTS



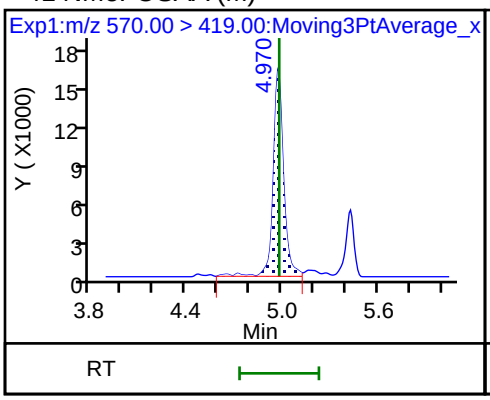
39 8:2 FTS



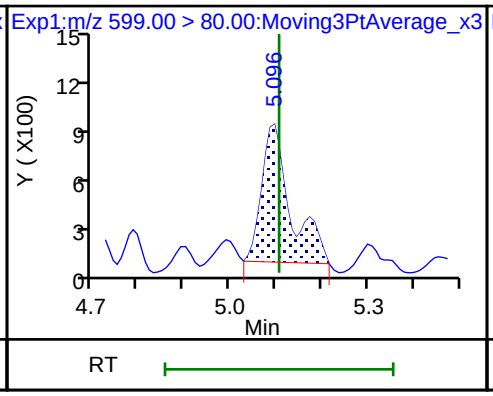
D 40 d3-NMeFOSAA



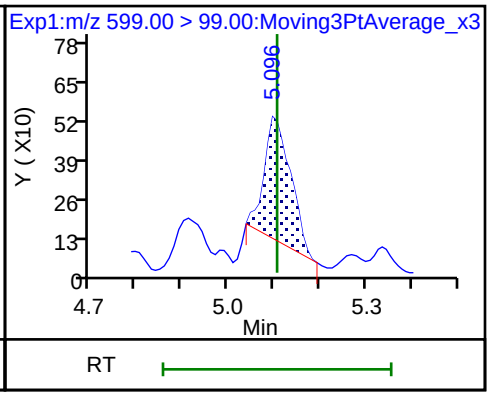
41 NMeFOSAA (M)



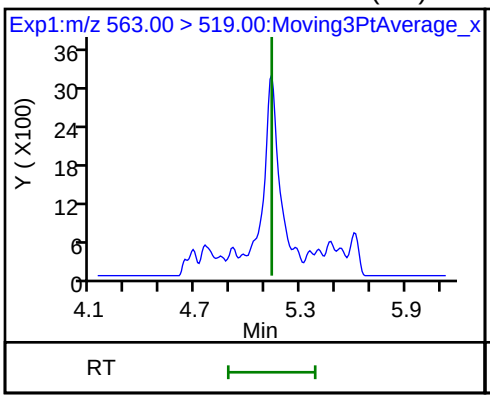
42 Perfluorodecanesulfonic acid



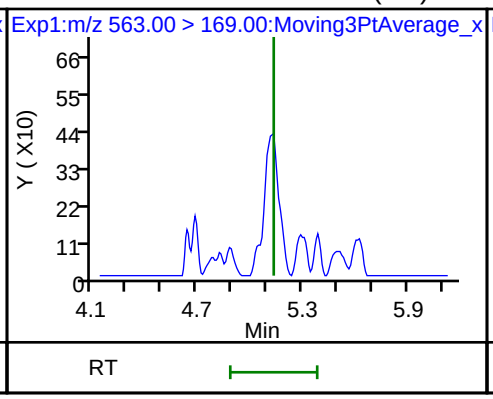
42 Perfluorodecanesulfonic acid



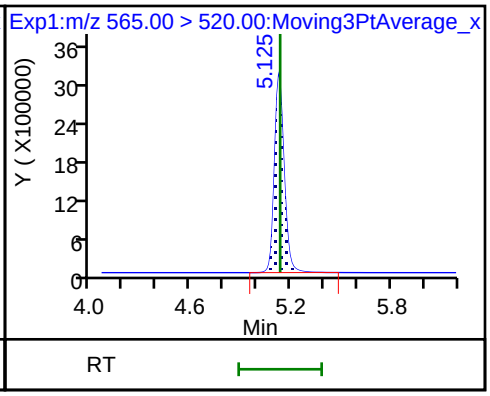
45 Perfluoroundecanoic acid (ND)



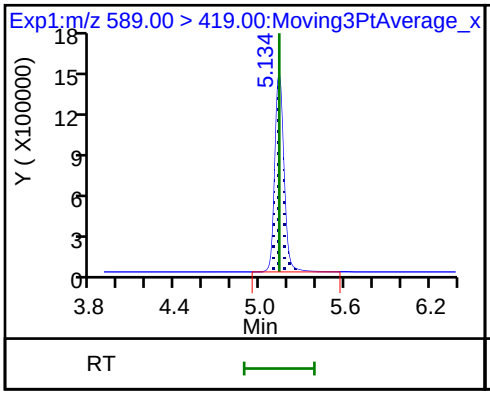
45 Perfluoroundecanoic acid (ND)



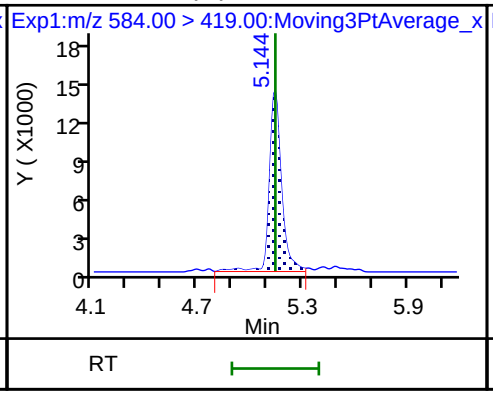
D 44 13C2 PFUnA



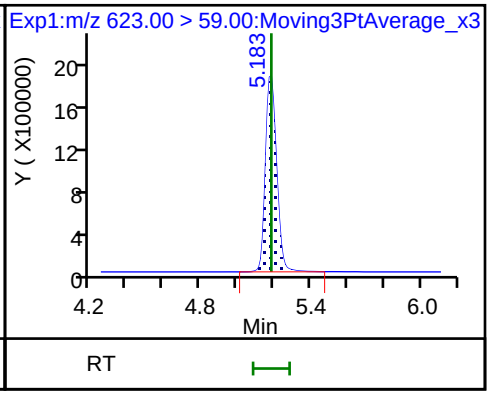
D 46 d5-NEtFOSAA



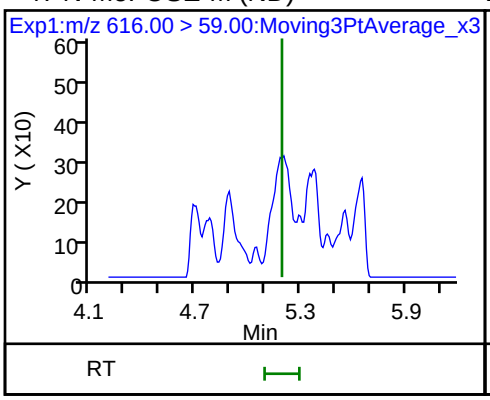
48 NEtFOSA (M)



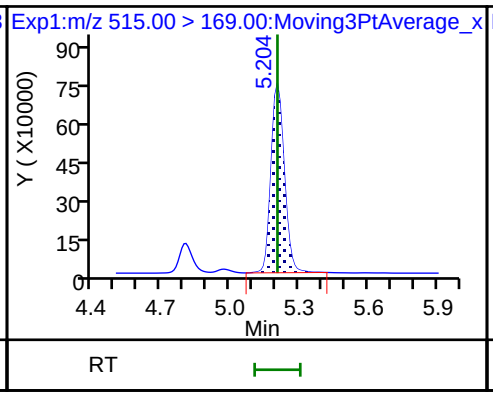
D 43 d7-N-MeFOSE-M



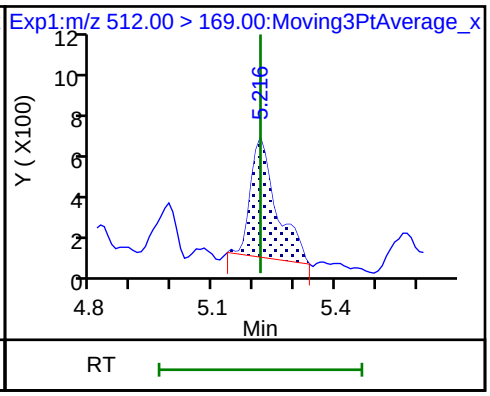
47 N-MeFOSE-M (ND)



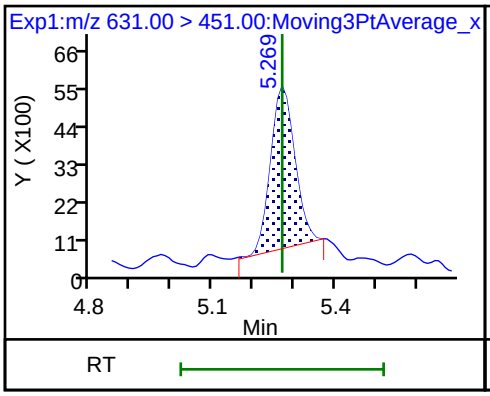
D 49 d-N-MeFOSA-M



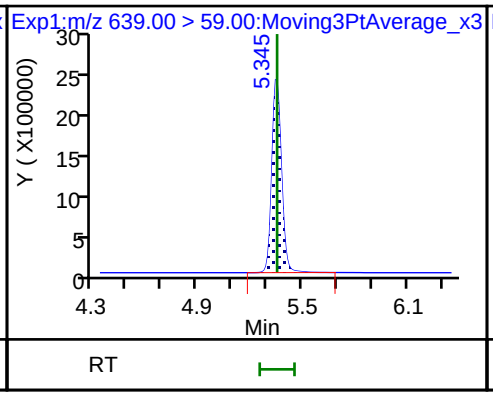
50 NMeFOSA



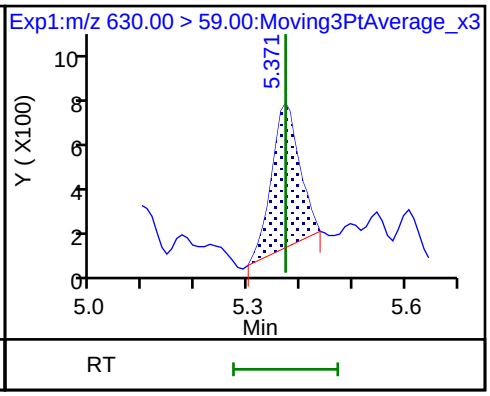
51 11ClFOS



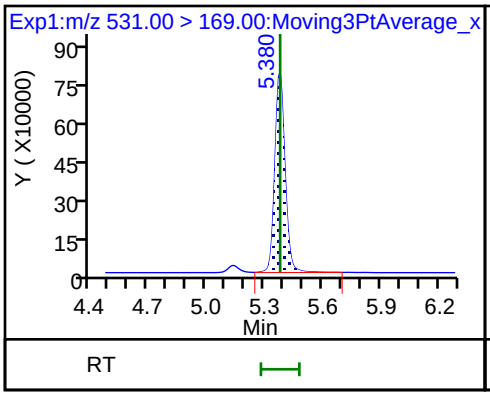
D 52 d9-N-EtFOSE-M



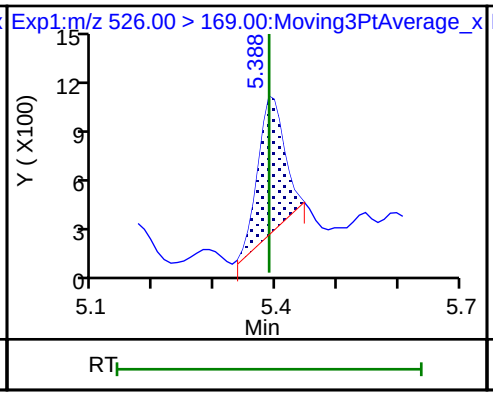
53 N-EtFOSE-M



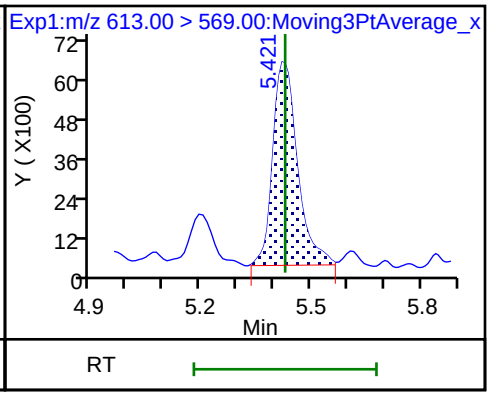
D 54 d-N-EtFOSA-M



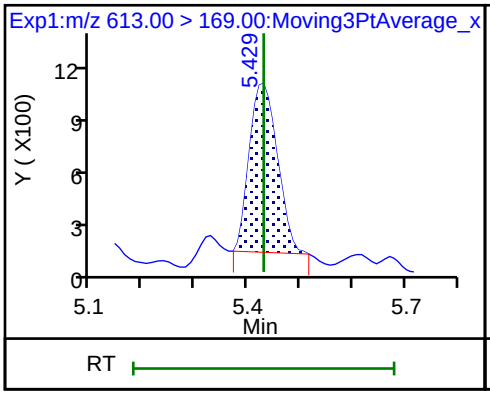
55 N-EtFOSA-M



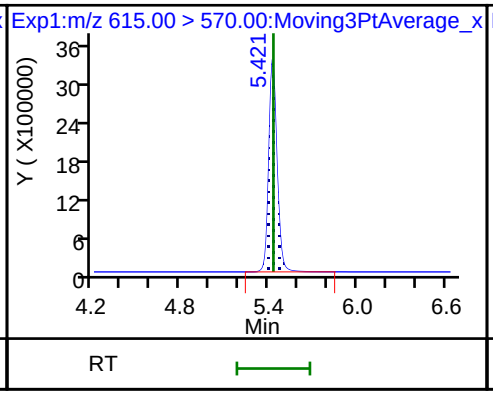
57 Perfluorododecanoic acid



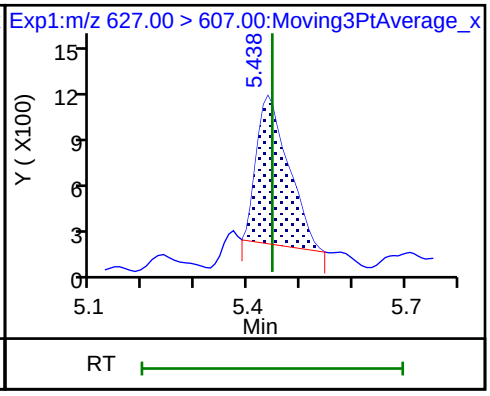
57 Perfluorododecanoic acid



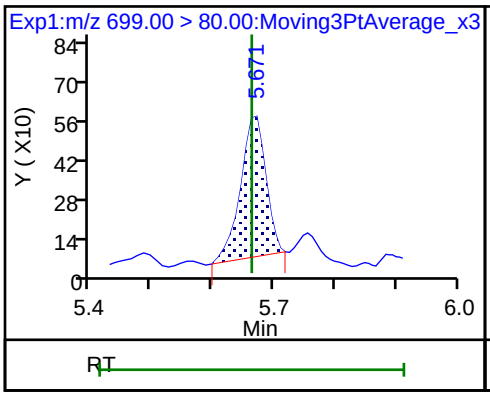
D 56 13C2 PFDoA



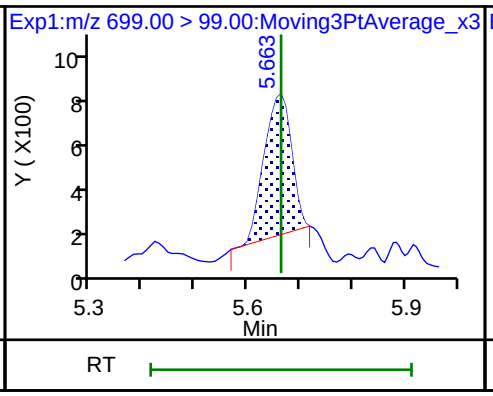
58 10:2 FTS



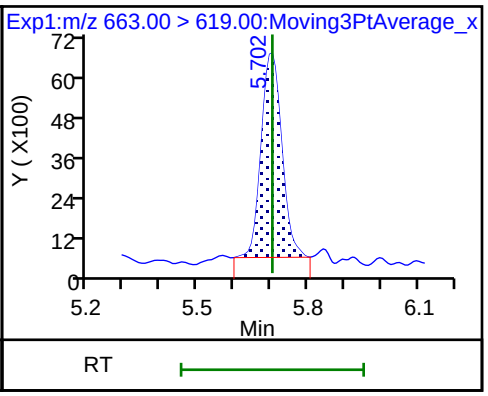
59 PFDoS



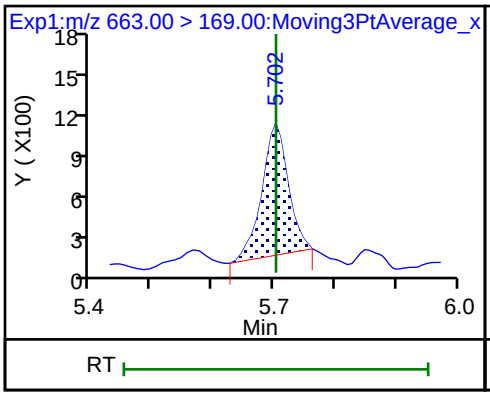
59 PFDoS



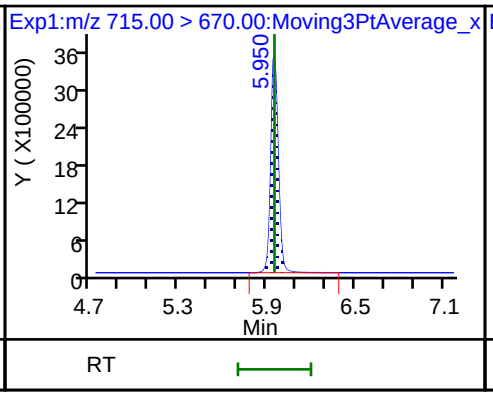
60 Perfluorotridecanoic acid



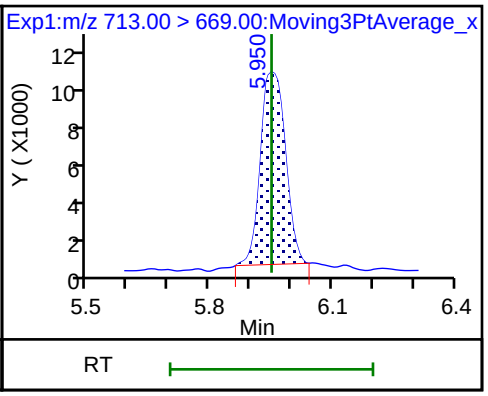
60 Perfluorotridecanoic acid



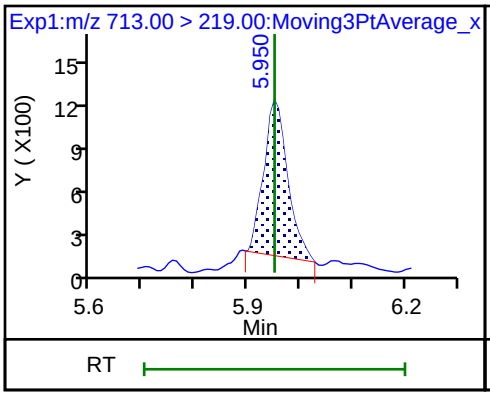
D 61 13C2 PFTeDA



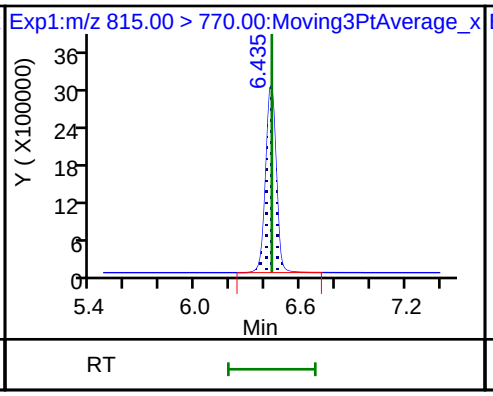
62 Perfluorotetradecanoic acid



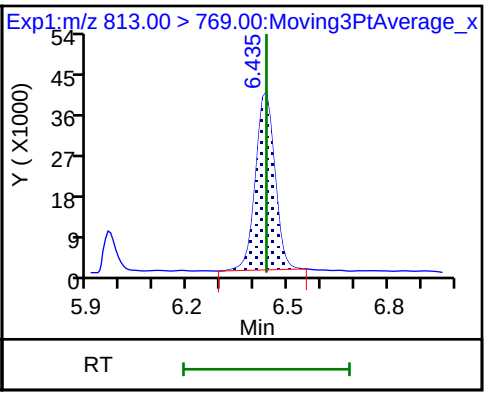
62 Perfluorotetradecanoic acid



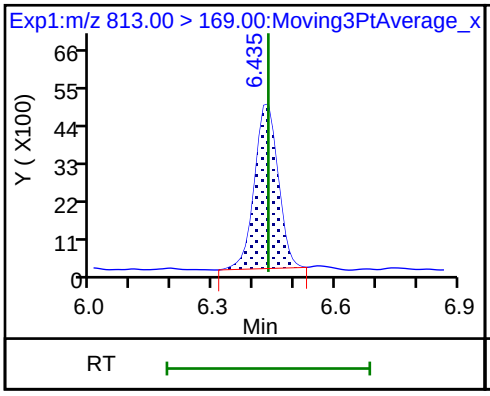
D 64 13C2 PFHxDA



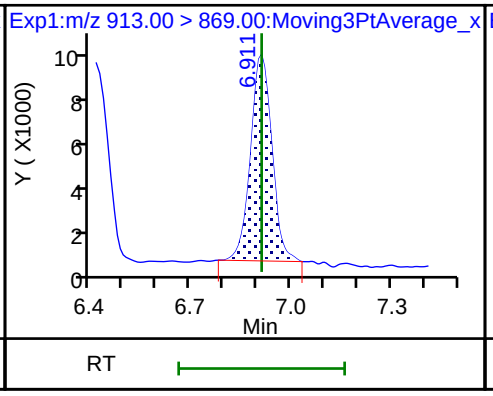
63 Perfluorohexadecanoic acid



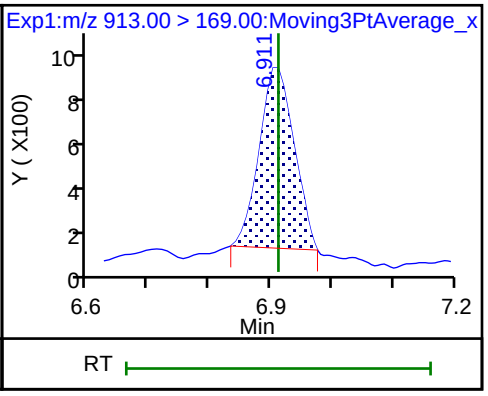
63 Perfluorohexadecanoic acid



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

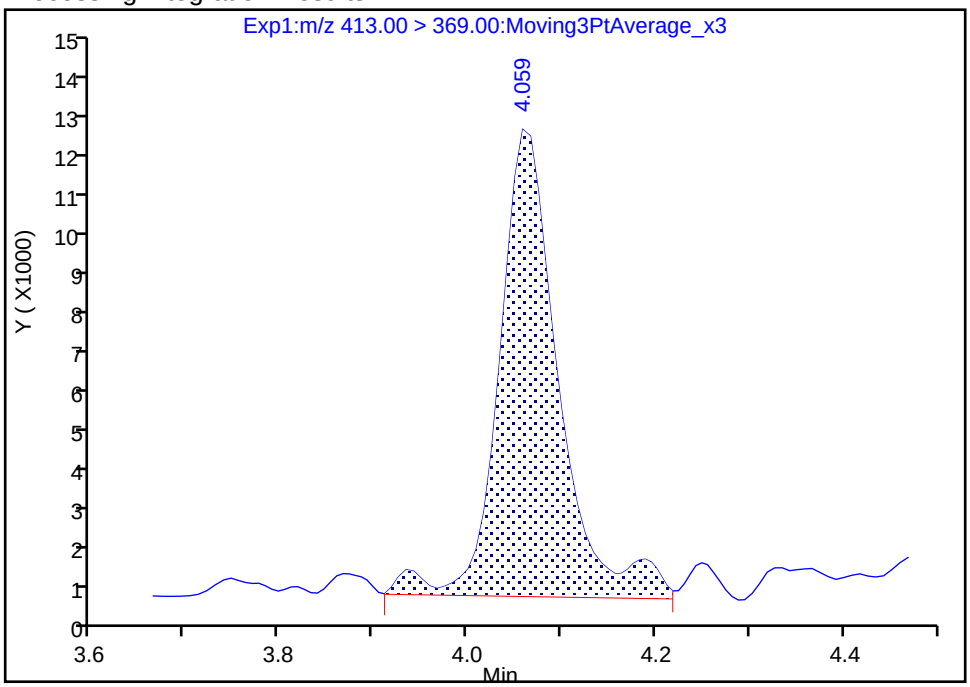
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13
Lims ID: ICB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

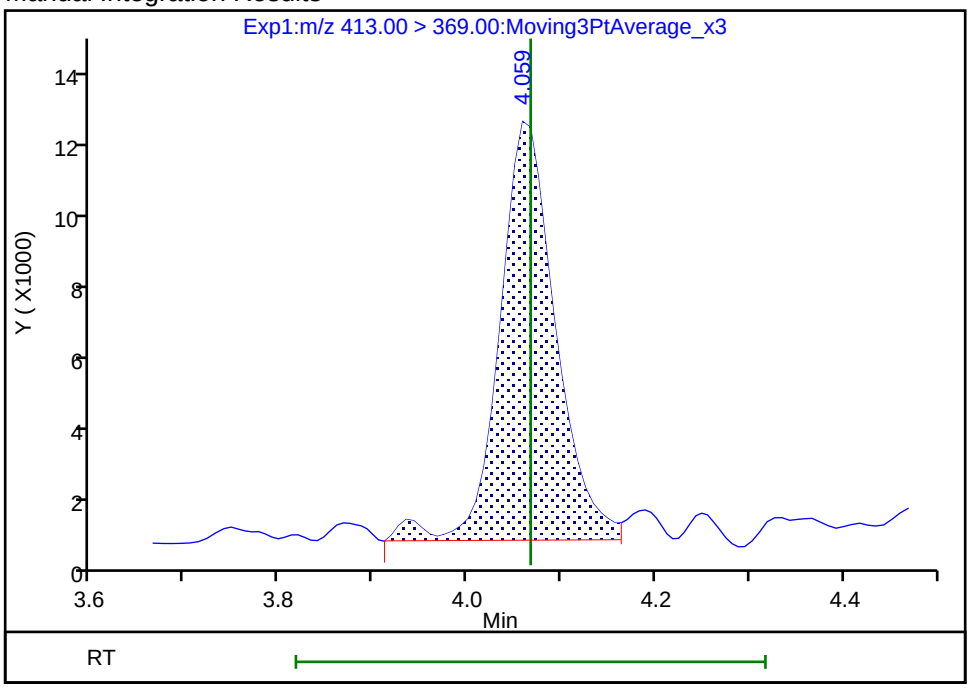
Processing Integration Results

RT: 4.06
Area: 50803
Amount: 0.011321
Amount Units: ng/ml



Manual Integration Results

RT: 4.06
Area: 47192
Amount: 0.010517
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:37:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

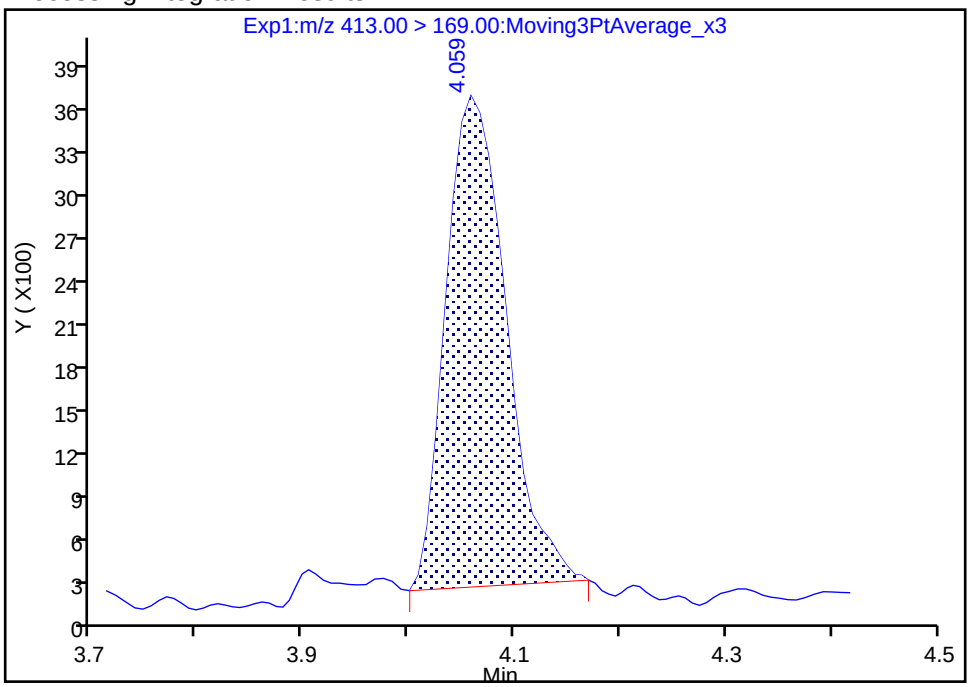
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13
Lims ID: ICB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

26 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

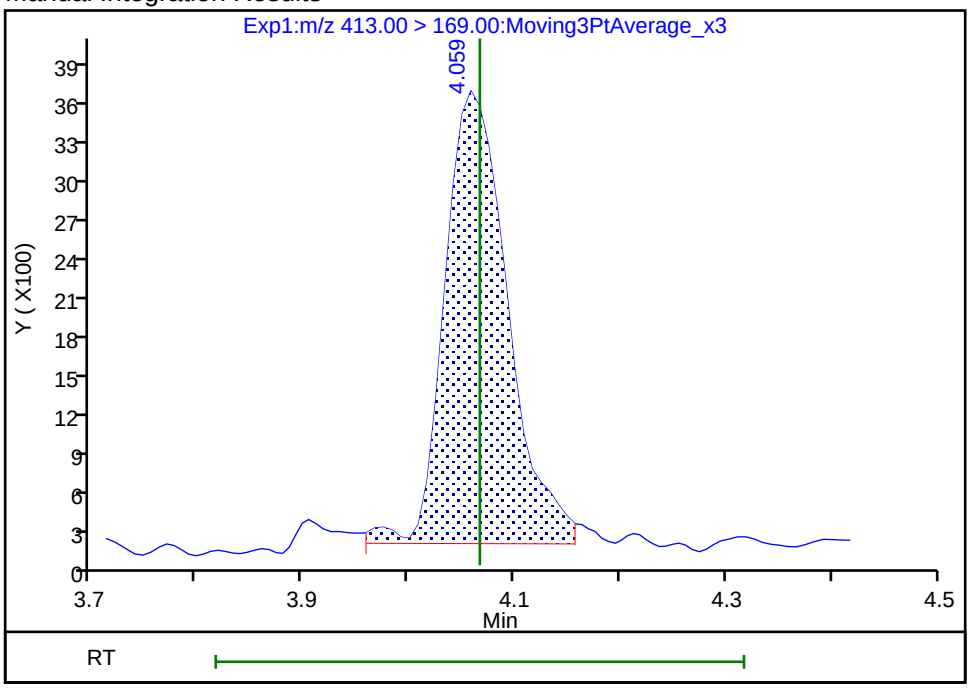
Processing Integration Results

RT: 4.06
Area: 13389
Amount: 0.011321
Amount Units: ng/ml



Manual Integration Results

RT: 4.06
Area: 14280
Amount: 0.010517
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:37:33
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

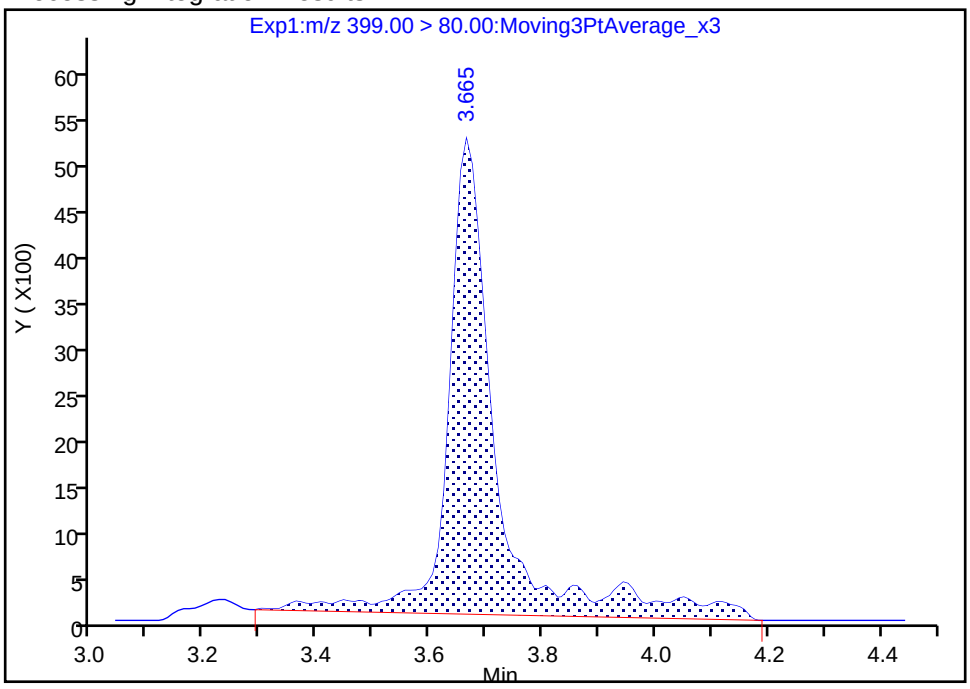
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13
Lims ID: ICB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

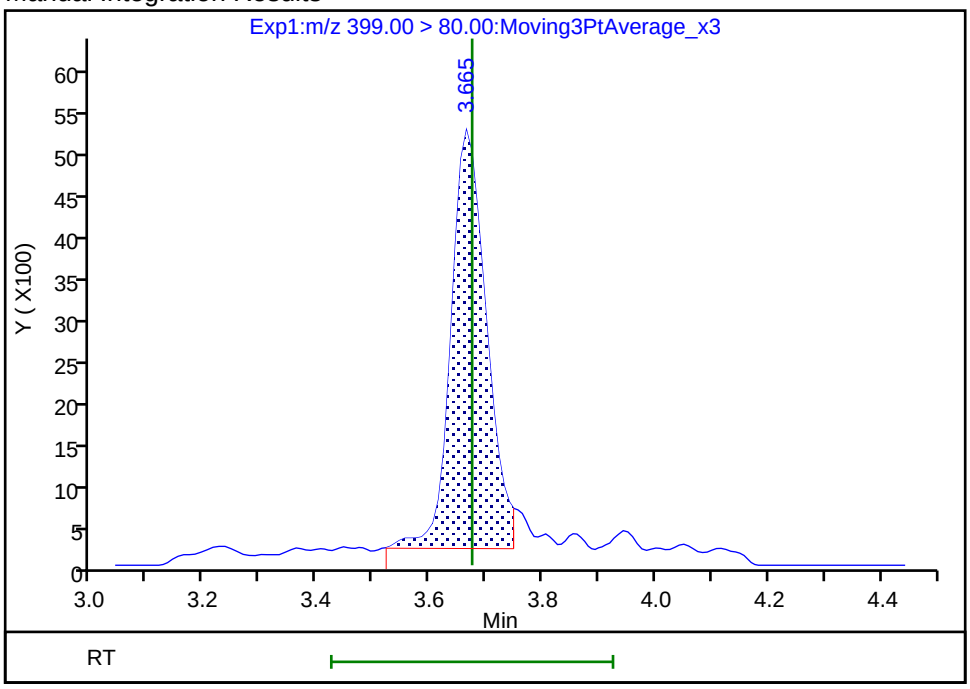
Processing Integration Results

RT: 3.66
Area: 30942
Amount: 0.011339
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 21953
Amount: 0.008045
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:36:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

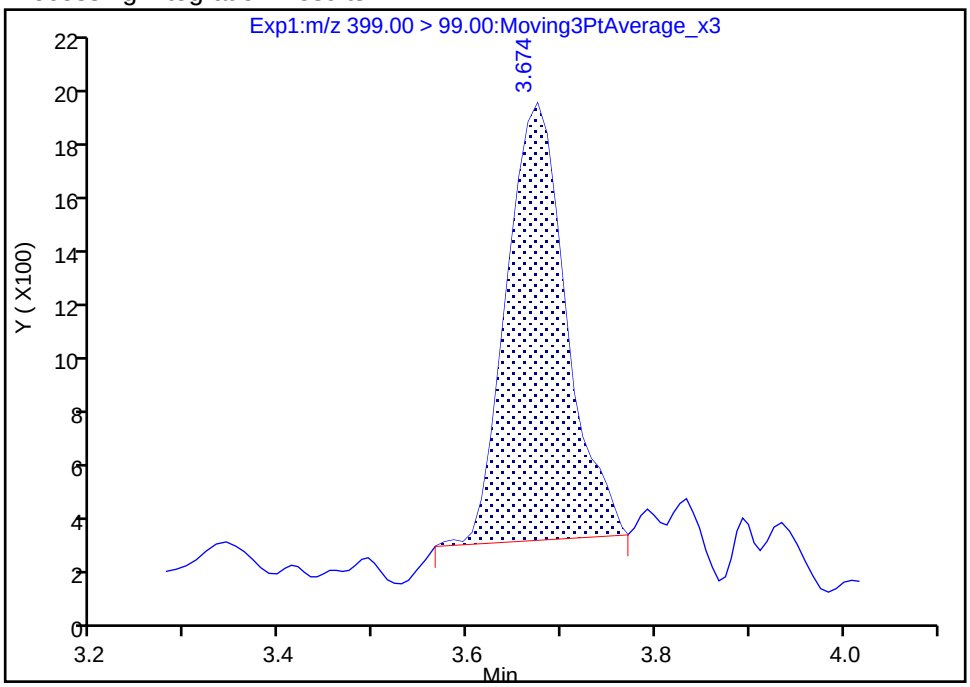
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13
Lims ID: ICB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

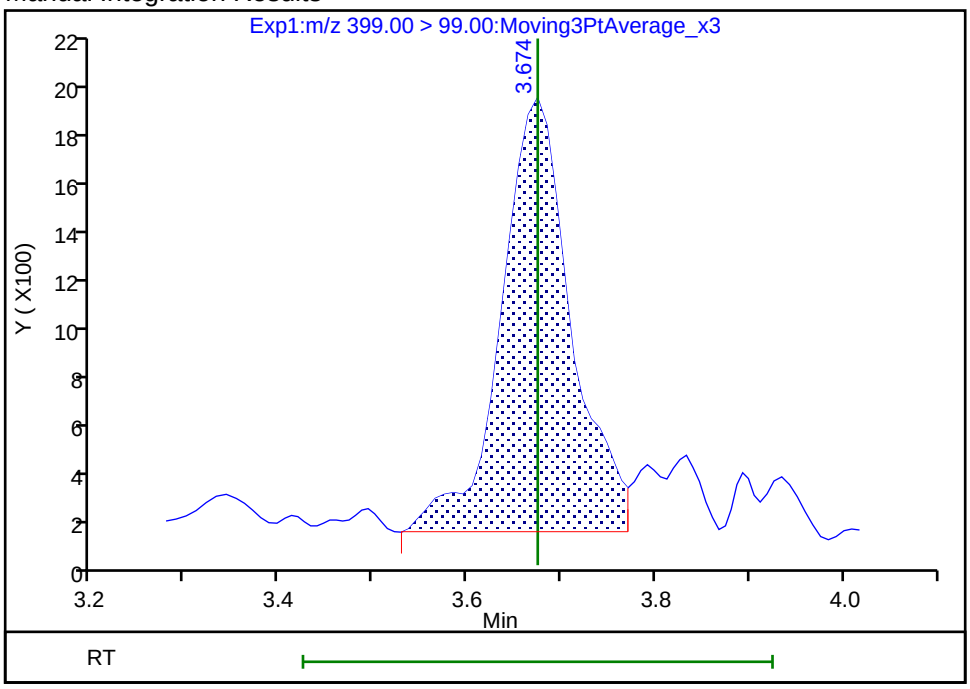
Processing Integration Results

RT: 3.67
Area: 7199
Amount: 0.011339
Amount Units: ng/ml



Manual Integration Results

RT: 3.67
Area: 9276
Amount: 0.008045
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:36:56
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

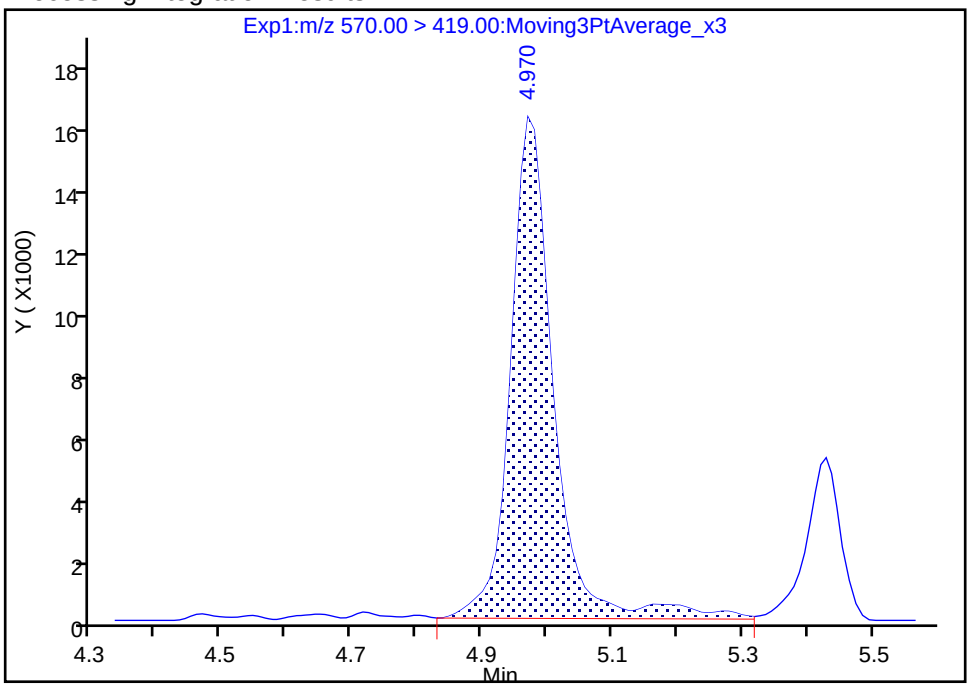
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13
Lims ID: ICB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

41 NMeFOSAA, CAS: 2355-31-9

Signal: 1

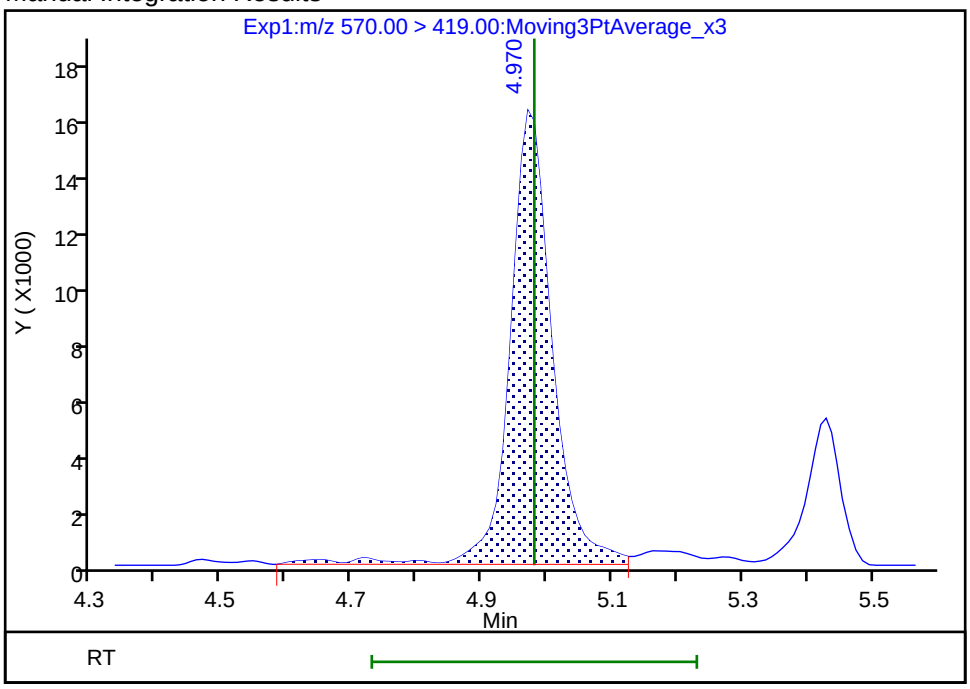
Processing Integration Results

RT: 4.97
Area: 72995
Amount: 0.035000
Amount Units: ng/ml



Manual Integration Results

RT: 4.97
Area: 71795
Amount: 0.034425
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:38:17
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

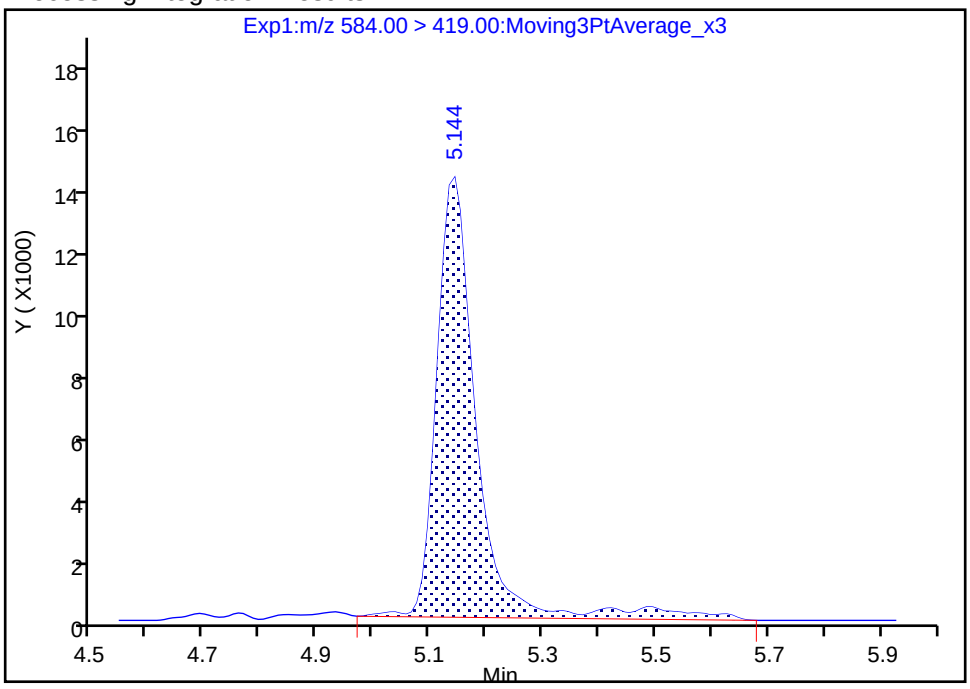
Data File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_011.d
Injection Date: 08-Sep-2020 19:07:39 Instrument ID: A13
Lims ID: ICB
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

48 NEtFOSA, CAS: 2991-50-6

Signal: 1

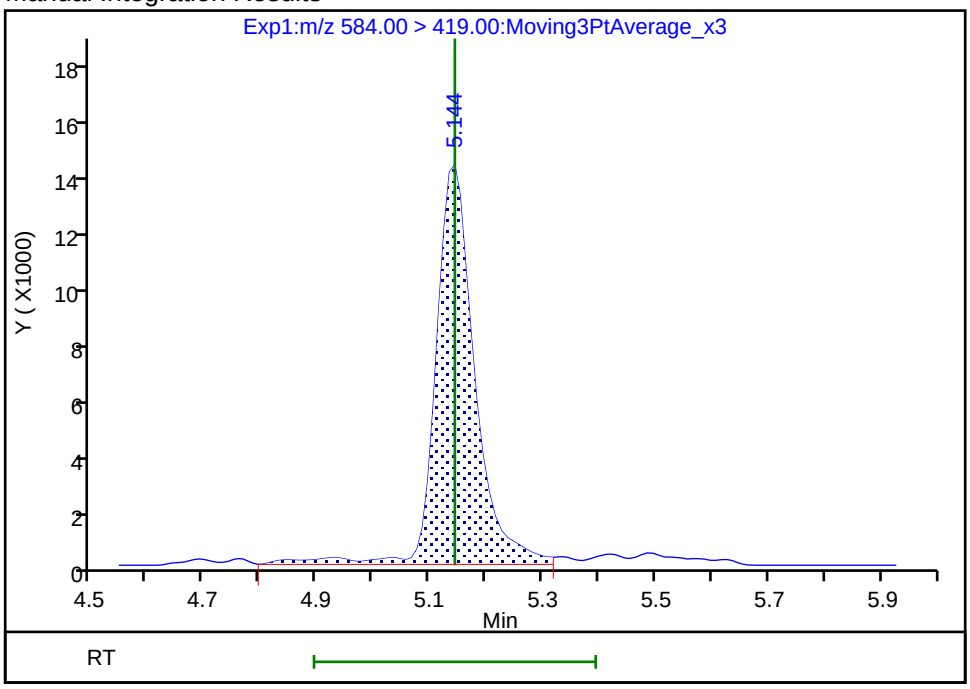
Processing Integration Results

RT: 5.14
Area: 67816
Amount: 0.034860
Amount Units: ng/ml



Manual Integration Results

RT: 5.14
Area: 66227
Amount: 0.034043
Amount Units: ng/ml



Reviewer: novoaj, 09-Sep-2020 09:38:33
Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-410906/2-A

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_060.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 18:17

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	41.57		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.75		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	41.17		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	41.33		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	40.45		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	42.87		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	39.95		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	40.85		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	42.34		2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	42.64		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	39.43		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.17		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.74		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	39.47		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.86		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	37.63		2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	40.01		2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	42.21		20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.74		20.0	1.90
27619-97-2	6:2 FTS	37.38		20.0	2.00
39108-34-4	8:2 FTS	36.84		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 320-410906/2-A

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_060.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 18:17

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90		25-150
STL01893	13C5 PFPeA	89		25-150
STL00993	13C2 PFHxA	93		25-150
STL01892	13C4 PFHpA	89		25-150
STL00990	13C4 PFOA	84		25-150
STL00995	13C5 PFNA	88		25-150
STL00996	13C2 PFDA	87		25-150
STL00997	13C2 PFUnA	82		25-150
STL00998	13C2 PFDoA	75		25-150
STL02116	13C2 PFTeDA	73		25-150
STL02337	13C3 PFBS	101		25-150
STL00994	18O2 PFHxS	99		25-150
STL00991	13C4 PFOS	94		25-150
STL01056	13C8 FOSA	85		25-150
STL02118	d3-NMeFOSAA	82		25-150
STL02117	d5-NEtFOSAA	84		25-150
STL02279	M2-6:2 FTS	93		25-150
STL02280	M2-8:2 FTS	105		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_060.d
Lims ID: LCS 320-410906/2-A
Client ID:
Sample Type: LCS
Inject. Date: 10-Sep-2020 18:17:18 ALS Bottle#: 33 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-410906/2-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:48:52 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 08:48:52
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.468	2.475	-0.007	0.609	8095825	2.24		89.7	10898	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.468	2.482	-0.014	1.000	2501513	1.04		104	334	
D 4 13C5 PFPeA										
267.90 > 223.00	2.857	2.867	-0.010	0.705	6281782	2.23		89.3	4392	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.868	2.867	0.001	1.004	2566541	0.99		99.4	141	
D 14 13C3 PFBS										
301.90 > 80.00	2.903	2.913	-0.010	0.716	8267707	2.34		101	6147	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.903	2.913	-0.010	1.000	2969757	0.8542	Target=2.29	96.6	906	
298.90 > 99.00	2.903	2.913	-0.010	1.000	1318689		2.25(1.15-3.44)		347	
7 4:2 FTS										
327.00 > 307.00	3.205	3.215	-0.010	1.000	2625814	0.9357		100	3198	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.205	3.215	-0.010	0.791	2020279	2.33		100.0	1195	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.248	3.258	-0.010	1.000	3079956	1.03	Target=13.52	103	124	
313.00 > 119.00	3.248	3.258	-0.010	1.000	239752		12.85(6.76-20.28)		83.5	
D 9 13C2 PFHxA										
315.00 > 270.00	3.248	3.258	-0.010	0.801	8050426	2.32		92.6	13974	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.269	3.279	-0.010	1.126	2778984	0.9898	Target=2.44	106	1959	
349.00 > 99.00	3.269	3.279	-0.010	1.126	1063338		2.61(1.22-3.66)		499	
12 HPFO-DA										
285.00 > 169.00	3.372	3.380	-0.008	1.000	629450	0.9878		98.8	1426	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.372	3.380	-0.008	0.832	5359689	2.15		86.0	7863	
D 17 18O2 PFHxS										
403.00 > 84.00	3.657	3.665	-0.008	0.902	5432692	2.35		99.2	1990	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.657	3.665	-0.008	1.000	3179419	1.03	Target=3.87	103	272	
363.00 > 169.00	3.657	3.665	-0.008	1.000	836996		3.80(1.93-5.80)		325	
18 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.657	3.665	-0.008	1.000	2155327	0.8435	Target=3.08	92.7	2393	
399.00 > 99.00	3.657	3.665	-0.008	1.000	712928		3.02(1.54-4.62)		327	M
D 15 13C4 PFHpA										
367.00 > 322.00	3.657	3.665	-0.008	0.902	7611110	2.22		88.9	4059	
19 DONA										
377.00 > 251.00	3.707	3.713	-0.006	0.840	7677257	0.9673	Target=2.76	103	6132	
377.00 > 85.00	3.697	3.713	-0.016	0.838	2556543		3.00(1.38-4.14)		3448	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.028	4.042	-0.014	0.994	2211186	2.22		93.3	1962	
21 6:2 FTS										
427.00 > 407.00	4.028	4.042	-0.014	1.000	2093958	0.9345		98.6	913	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.045	4.051	-0.006	0.917	1736587	0.9868	Target=4.20	104	1049	
449.00 > 99.00	4.045	4.051	-0.006	0.917	409543		4.24(2.10-6.30)		260	
D 24 13C4 PFOA										
417.00 > 372.00	4.045	4.059	-0.014	0.998	8768663	2.10		83.8	11551	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.053	4.059	-0.006	1.002	3628308	1.01	Target=2.99	101	565	
413.00 > 169.00	4.045	4.059	-0.014	1.000	1203394		3.02(1.50-4.49)		799	
* 25 13C2 PFOA										
415.00 > 370.00	4.053	4.059	-0.006		10619287	2.50			3367	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.410	4.425	-0.015	1.000	1558725	0.9715	Target=4.13	105	294	
499.00 > 99.00	4.410	4.425	-0.015	1.000	370980		4.20(2.06-6.19)		289	M
D 29 13C4 PFOS										
503.00 > 80.00	4.410	4.425	-0.015	1.088	3693114	2.24		93.6	3141	
30 Perfluorononanoic acid										
463.00 > 419.00	4.427	4.433	-0.006	1.000	3441238	1.07	Target=7.70	107	733	
463.00 > 169.00	4.427	4.433	-0.006	1.000	408997		8.41(3.85-11.55)		468	
D 31 13C5 PFNA										
468.00 > 423.00	4.427	4.442	-0.015	1.092	8455052	2.19		87.5	5931	
32 9ClFOS										
531.00 > 351.00	4.610	4.620	-0.010	1.045	3756301	0.9718		104	4139	
D 34 13C8 FOSA										
506.00 > 78.00	4.736	4.740	-0.004	1.168	5046321	2.13		85.1	4124	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.736	4.740	-0.004	1.000	1894625	1.00		100	1818	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.761	4.766	-0.005	1.080	1197614	1.00	Target=2.03	104	1777	
549.00 > 99.00	4.761	4.766	-0.005	1.080	572417		2.09(1.01-3.04)		808	
D 37 13C2 PFDA										
515.00 > 470.00	4.779	4.793	-0.014	1.179	10221947	2.18		87.3	8934	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.788	4.793	-0.005	1.002	3660734	1.00	Target=10.40	99.9	1229	
513.00 > 169.00	4.779	4.793	-0.014	1.000	350672		10.44(5.20-15.61)		323	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.788	4.802	-0.014	1.181	3310524	2.51		105	3348	
39 8:2 FTS										
527.00 > 507.00	4.788	4.802	-0.014	1.000	3147264	0.9211		96.1	8780	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.945	4.959	-0.014	1.220	4961057	2.06		82.2	3956	
41 NMeFOSAA										
570.00 > 419.00	4.955	4.959	-0.004	1.002	1686865	1.06		106	351	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.081	5.084	-0.003	1.152	957830	0.9409	Target=2.35	97.6	701	
599.00 > 99.00	5.081	5.084	-0.003	1.152	426072		2.25(1.18-3.53)		1004	
D 44 13C2 PFUnA										
565.00 > 520.00	5.100	5.113	-0.013	1.258	9422463	2.06		82.3	8589	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.100	5.113	-0.013	1.000	2545854	1.02	Target=8.31	102	921	
563.00 > 169.00	5.100	5.113	-0.013	1.000	289678		8.79(4.15-12.46)		809	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.110	5.123	-0.013	1.261	4930565	2.11		84.4	3652	
48 NEtFOSA										
584.00 > 419.00	5.119	5.132	-0.013	1.002	1478446	0.9684		96.8	19887	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.187	5.190	-0.003	1.280	1633870	2.75		22.0	1030	
47 N-MeFOSE-M										
616.00 > 59.00	5.197	5.200	-0.003	1.002	134305	0.9651		96.5	193	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.208	5.212	-0.004	1.285	1831184	1.64		65.6	38.1	
50 NMeFOSA										
512.00 > 169.00	5.219	5.223	-0.004	1.002	783886	1.09		109	185	
51 11ClFOS										
631.00 > 451.00	5.241	5.255	-0.014	1.188	6415822	0.9618		102	5462	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.356	5.359	-0.003	1.321	1542473	2.21		17.7	1141	
53 N-EtFOSE-M										
630.00 > 59.00	5.373	5.376	-0.003	1.003	127538	1.00		99.8	162	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.382	5.385	-0.003	1.328	1185489	1.11		44.5	110	
55 N-EtFOSA-M										
526.00 > 169.00	5.390	5.393	-0.003	1.002	471189	0.9357		93.6	100	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	5.398	5.409	-0.011	1.332	9205145	1.87		74.7	8420	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.398	5.409	-0.011	1.000	3555739	1.06	Target=9.00	106	1937	
613.00 > 169.00	5.398	5.409	-0.011	1.000	361747		9.83(4.50-13.49)		690	
58 10:2 FTS										
627.00 > 607.00	5.415	5.426	-0.011	1.131	2365754	1.05		109	4740	
59 PFDoS										
699.00 > 80.00	5.629	5.642	-0.013	1.276	380832	0.9582	Target=0.54	99.0	1552	
699.00 > 99.00	5.629	5.642	-0.013	1.276	640468		0.59(0.27-0.82)		1372	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.665	5.676	-0.011	1.049	3679051	1.07	Target=6.96	107	2480	
663.00 > 169.00	5.665	5.676	-0.011	1.049	509175		7.23(3.48-10.45)		1257	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.907	5.920	-0.013	1.457	8866205	1.82		72.8	6697	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.907	5.920	-0.013	1.000	3441366	0.9858	Target=10.31	98.6	1850	
713.00 > 219.00	5.912	5.920	-0.008	1.001	310351		11.09(5.16-15.47)		1117	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.381	6.393	-0.012	1.002	3847273	0.9110	Target=9.94	91.1	2848	
813.00 > 169.00	6.381	6.393	-0.012	1.002	383709		10.03(4.97-14.90)		1239	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.369	6.393	-0.024	1.571	10804779	2.13		85.3	8712	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.826	6.842	-0.016	1.072	3162341	1.00	Target=11.47	100	1591	
913.00 > 169.00	6.826	6.842	-0.016	1.072	292894		10.80(5.74-17.21)		1388	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:48:52 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_060.d

Injection Date: 10-Sep-2020 18:17:18 Instrument ID: A13

Lims ID: LCS 320-410906/2-A

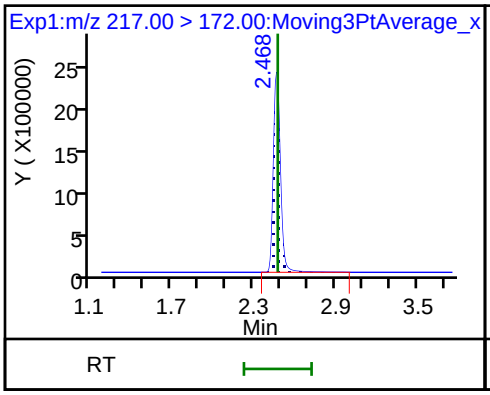
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 33 Worklist Smp#: 3

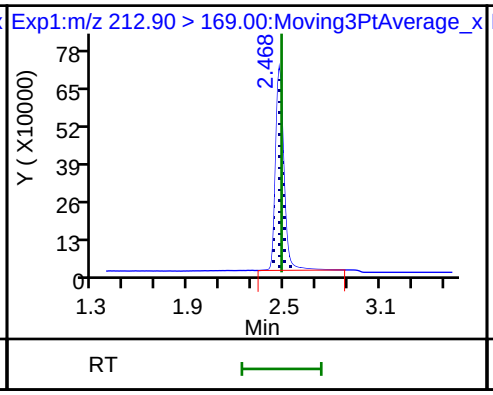
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

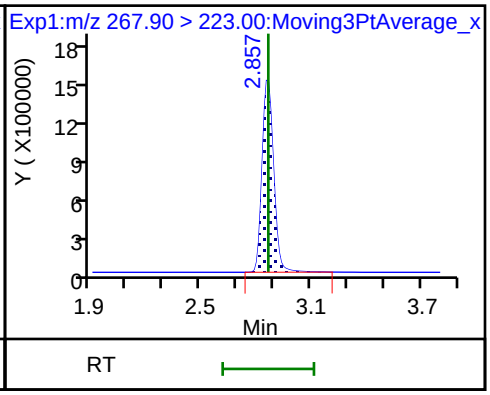
D 1 13C4 PFBA



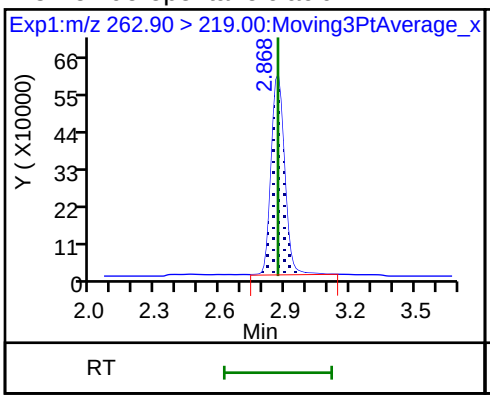
2 Perfluorobutanoic acid



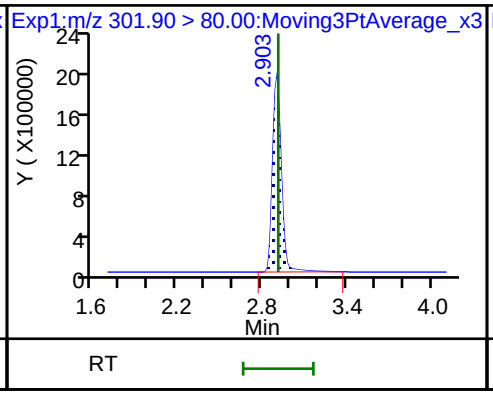
D 4 13C5 PFPeA



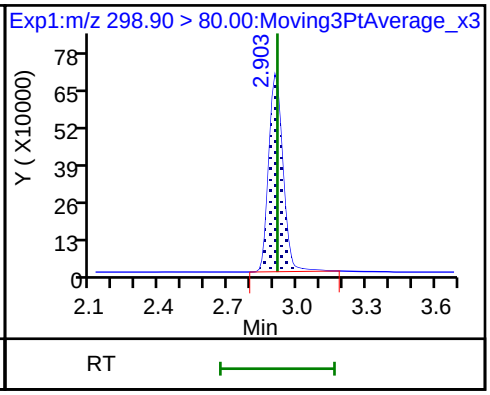
5 Perfluoropentanoic acid



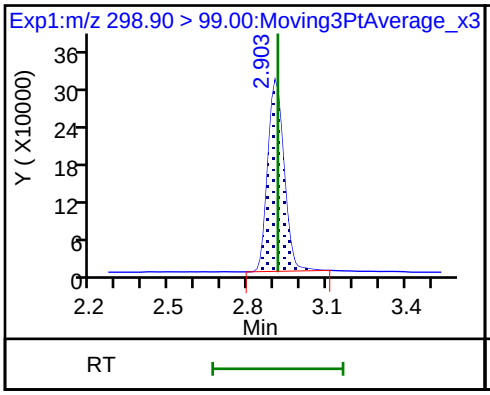
D 14 13C3 PFBS



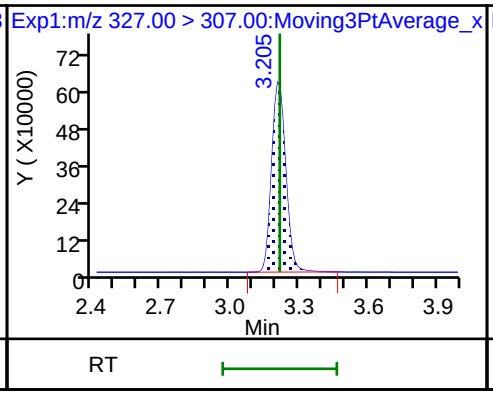
6 Perfluorobutanesulfonic acid



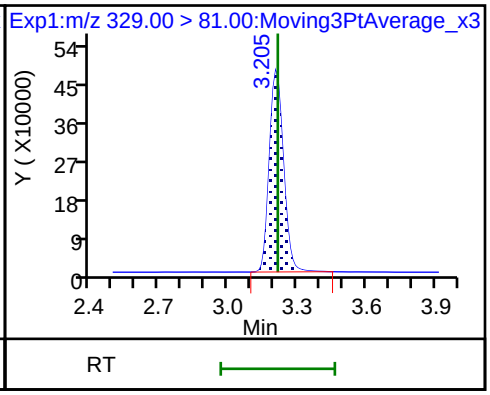
6 Perfluorobutanesulfonic acid



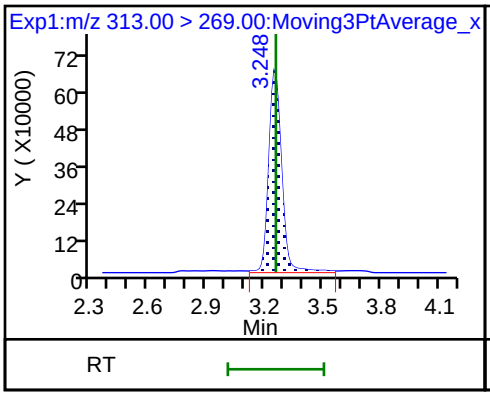
7 4:2 FTS



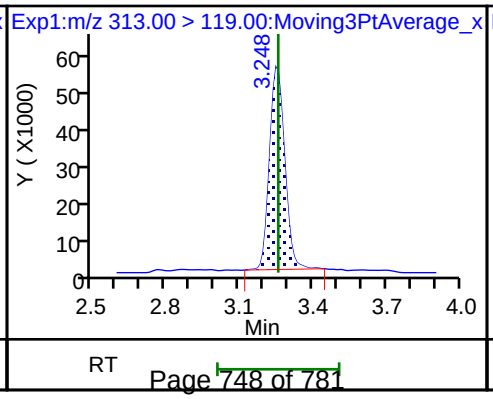
D 8 M2-4:2 FTS



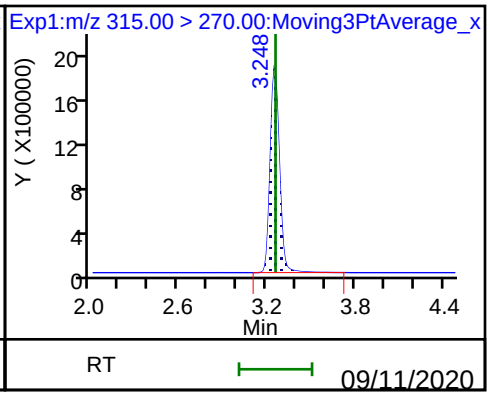
10 Perfluorohexanoic acid



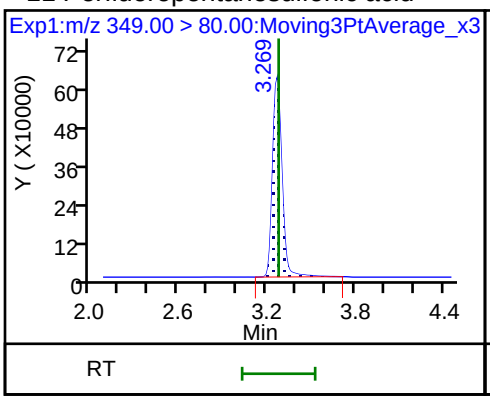
10 Perfluorohexanoic acid



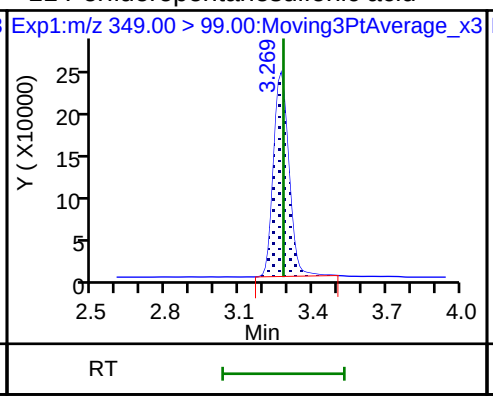
D 9 13C2 PFHxA



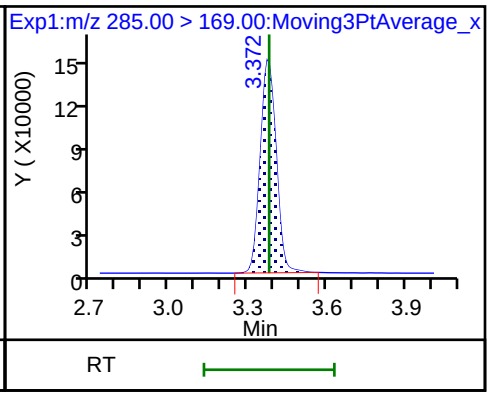
11 Perfluoropentanesulfonic acid



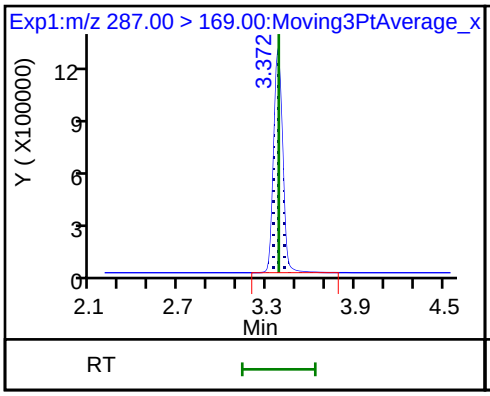
11 Perfluoropentanesulfonic acid



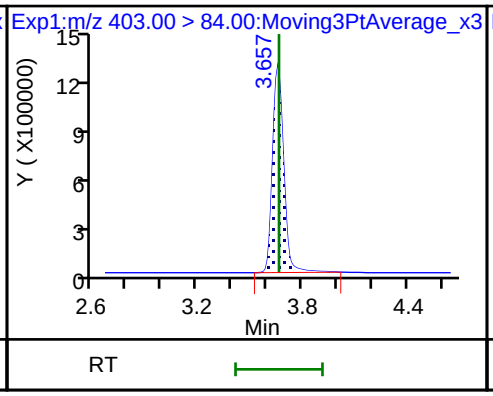
12 HPFO-DA



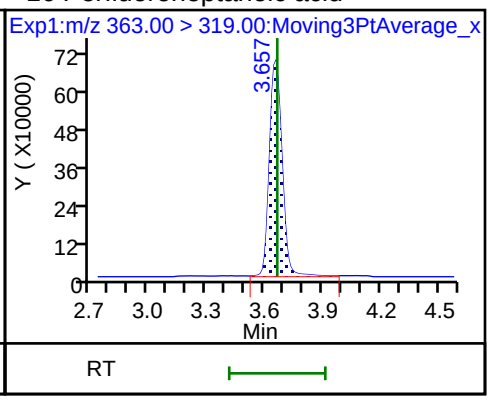
D 13 13C3 HFPO-DA



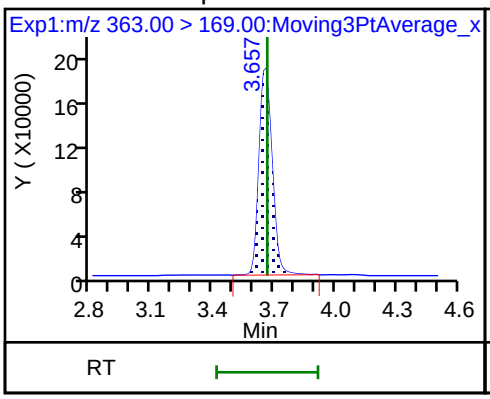
D 17 18O2 PFHxS



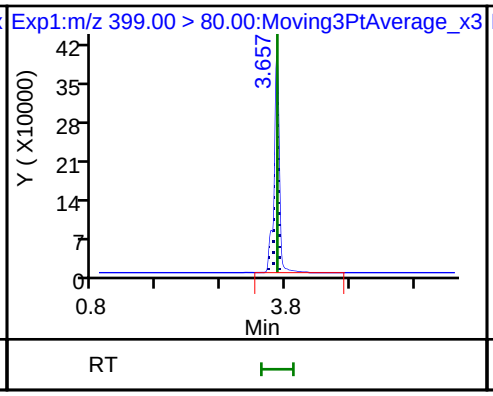
16 Perfluoroheptanoic acid



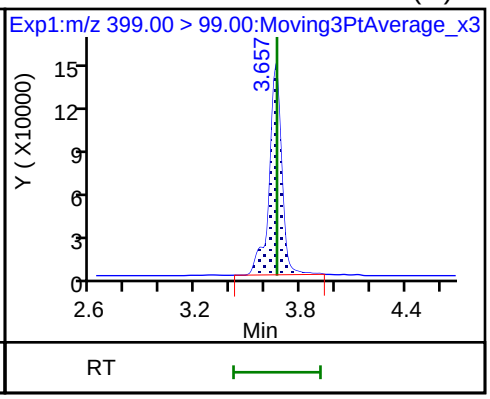
16 Perfluoroheptanoic acid



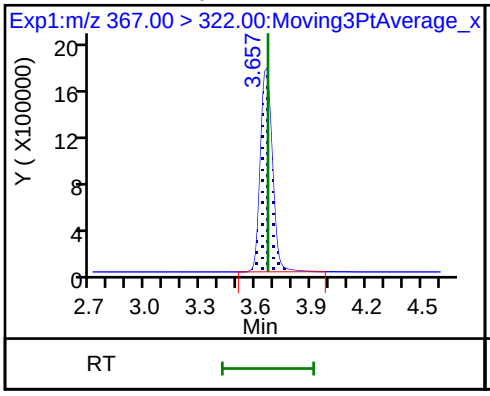
18 Perfluorohexanesulfonic acid



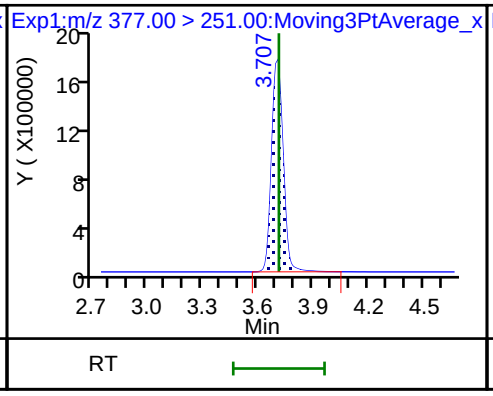
18 Perfluorohexanesulfonic acid (M)



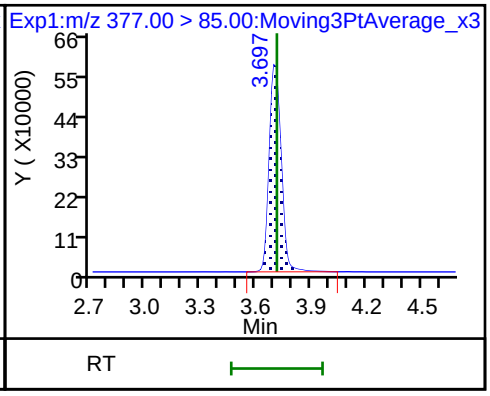
D 15 13C4 PFHpA



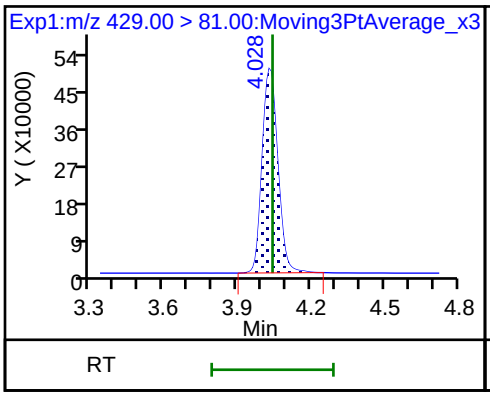
19 DONA



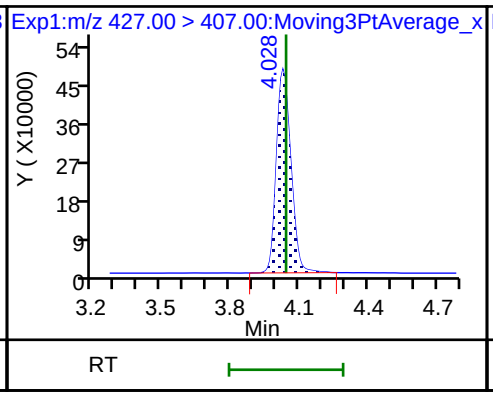
19 DONA



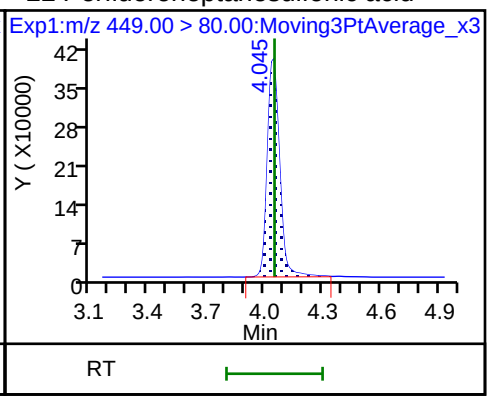
D 20 M2-6:2 FTS



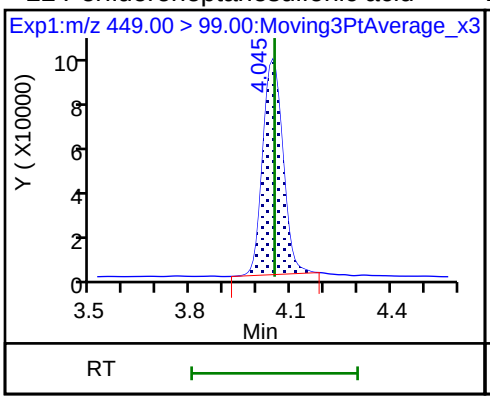
21 6:2 FTS



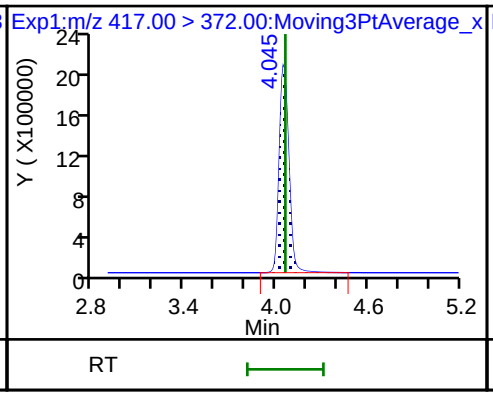
22 Perfluoroheptanesulfonic acid



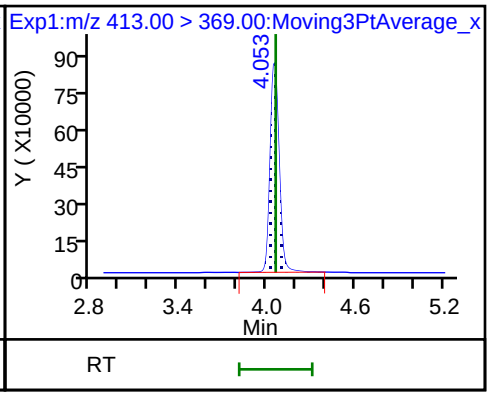
22 Perfluoroheptanesulfonic acid



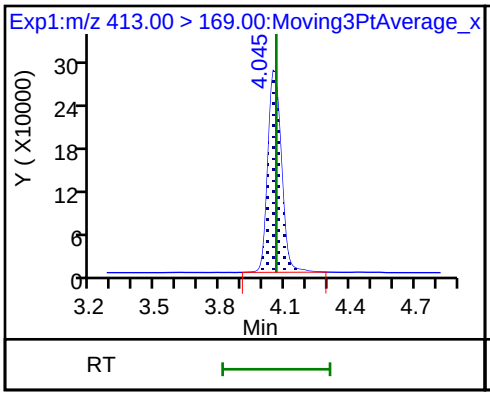
D 24 13C4 PFOA



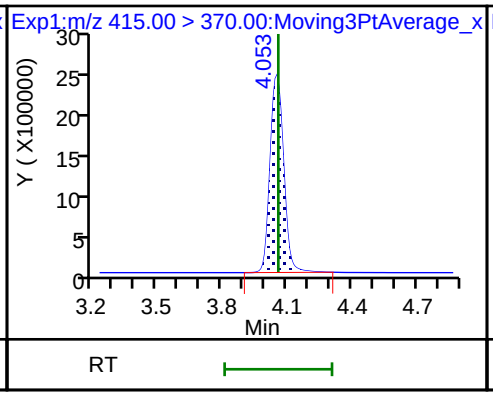
26 Perfluorooctanoic acid



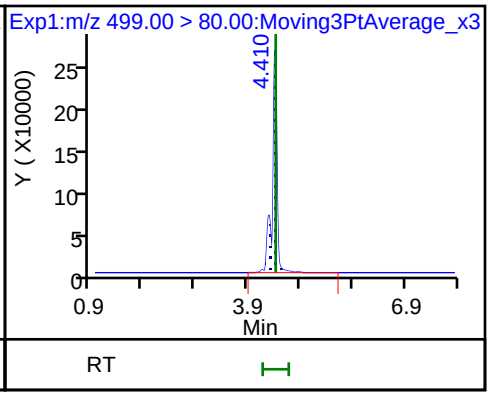
26 Perfluorooctanoic acid



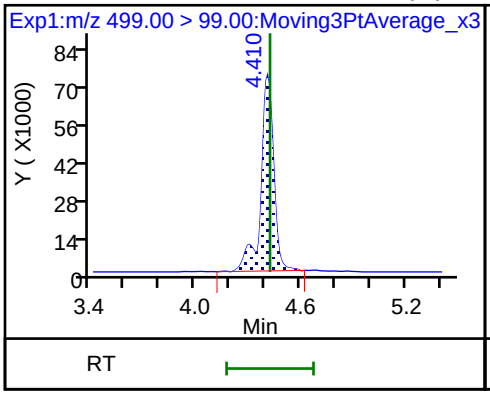
* 25 13C2 PFOA



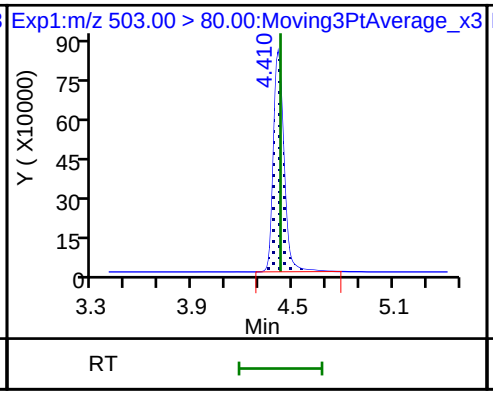
28 Perfluorooctanesulfonic acid



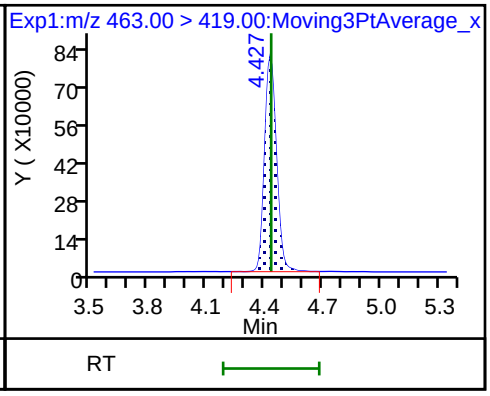
28 Perfluorooctanesulfonic acid (M)



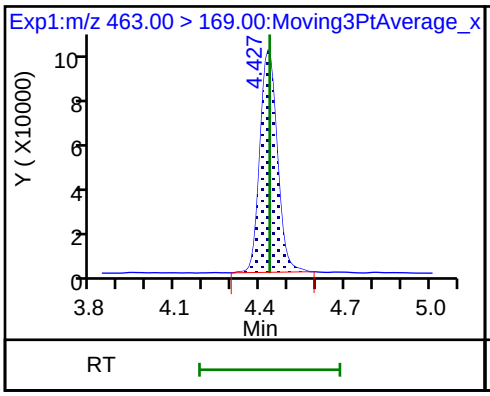
D 29 13C4 PFOS



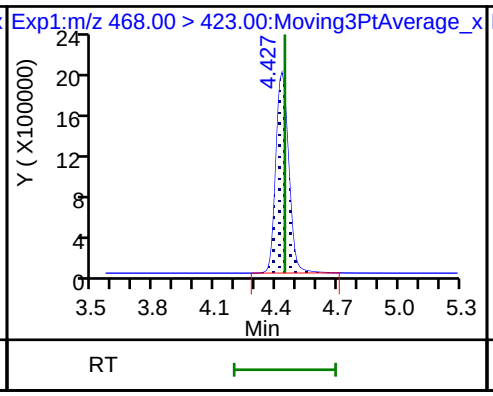
30 Perfluorononanoic acid



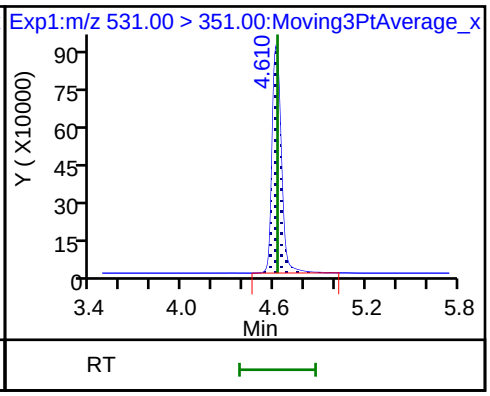
30 Perfluorononanoic acid



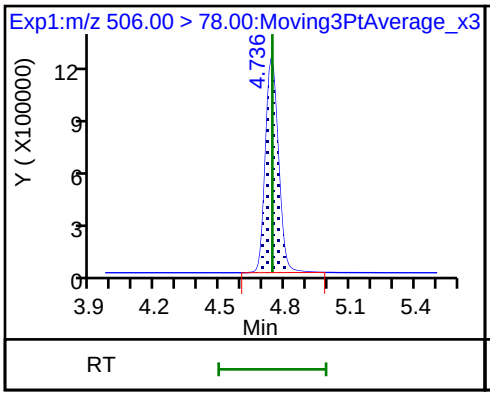
D 31 13C5 PFNA



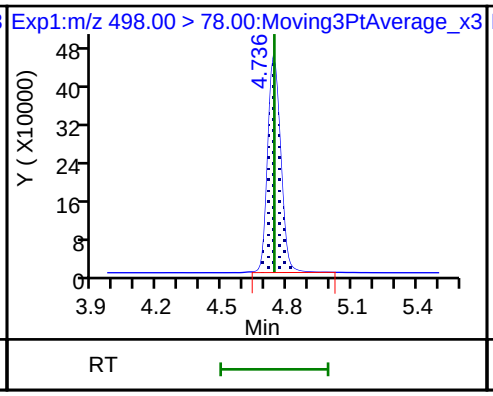
32 9ClFOS



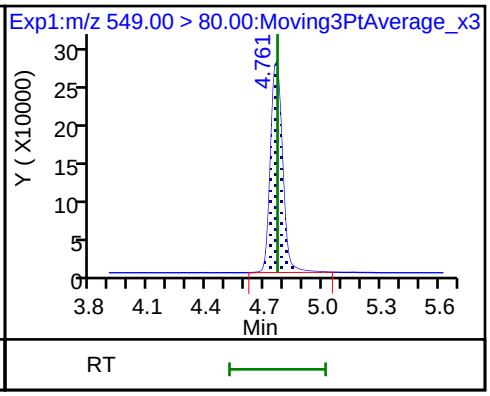
D 34 13C8 FOSA



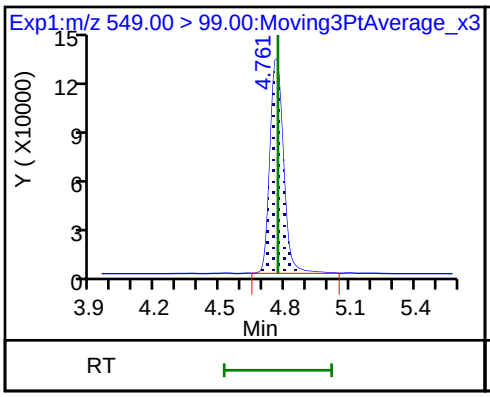
33 Perfluorooctanesulfonamide



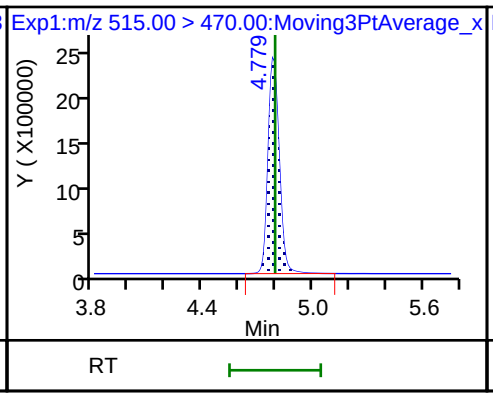
35 Perfluorononanesulfonic acid



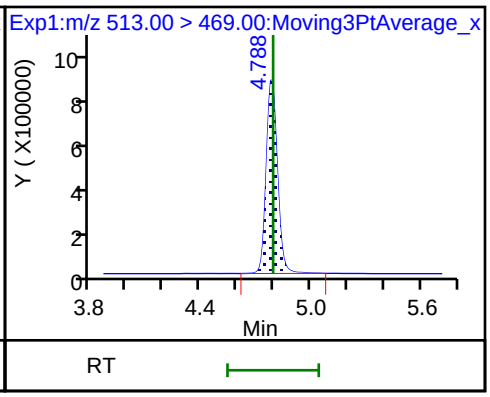
35 Perfluorononanesulfonic acid



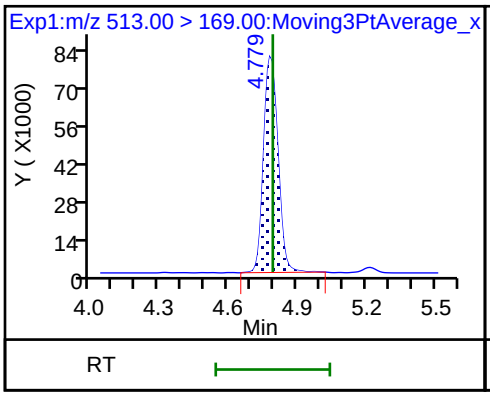
D 37 13C2 PFDA



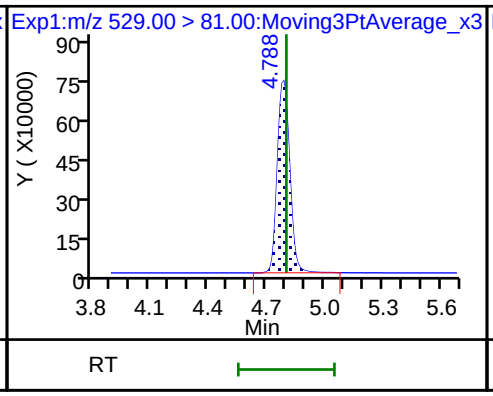
36 Perfluorodecanoic acid



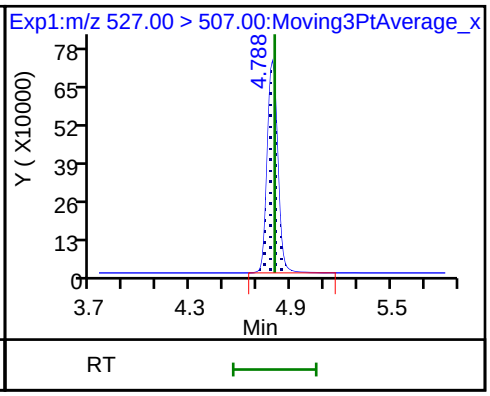
36 Perfluorodecanoic acid



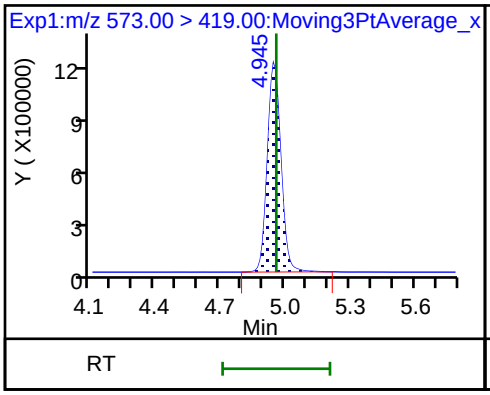
D 38 M2-8:2 FTS



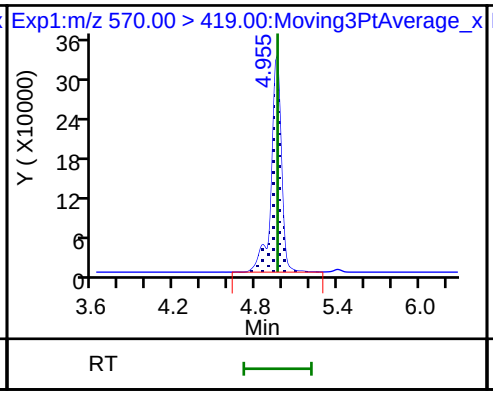
39 8:2 FTS



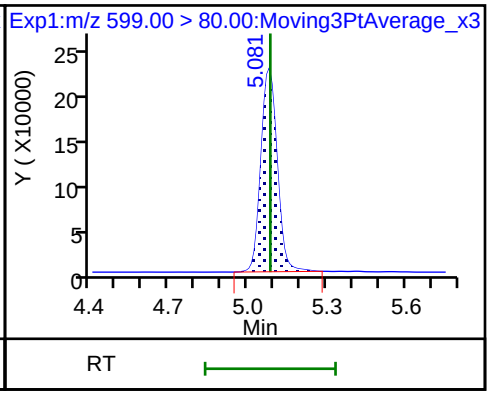
D 40 d3-NMeFOSAA



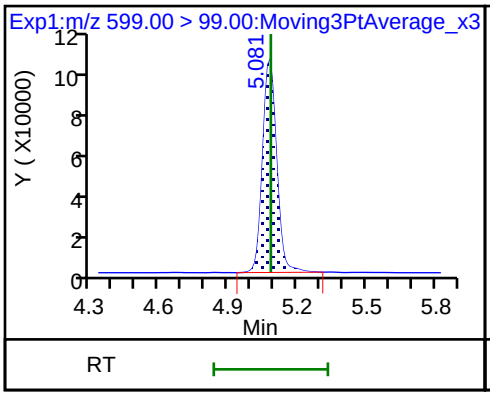
41 NMeFOSAA



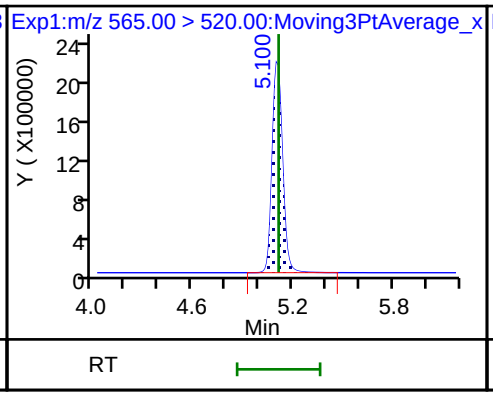
42 Perfluorodecanesulfonic acid



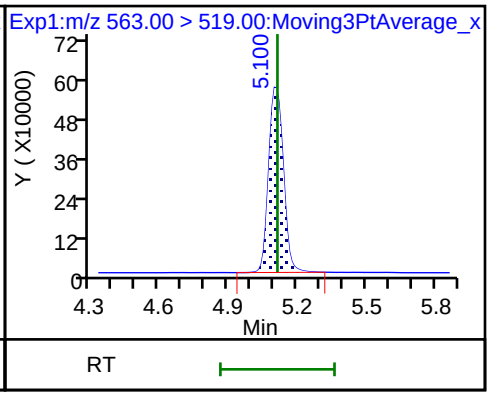
42 Perfluorodecanesulfonic acid



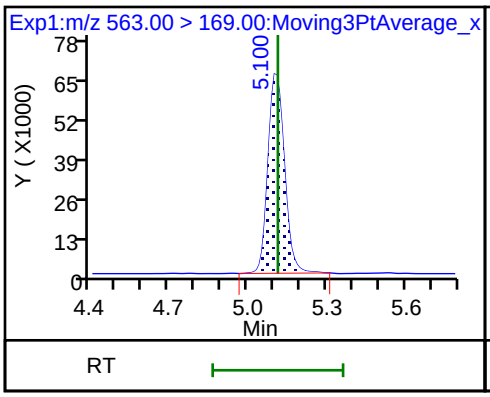
D 44 13C2 PFUnA



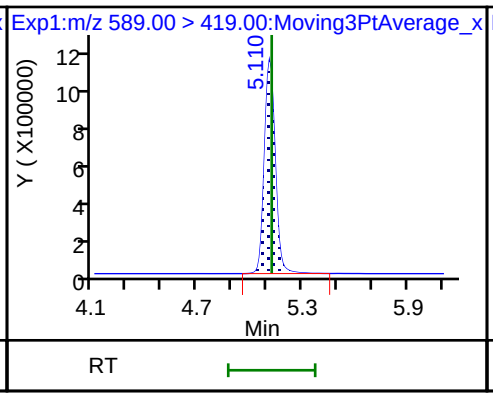
45 Perfluoroundecanoic acid



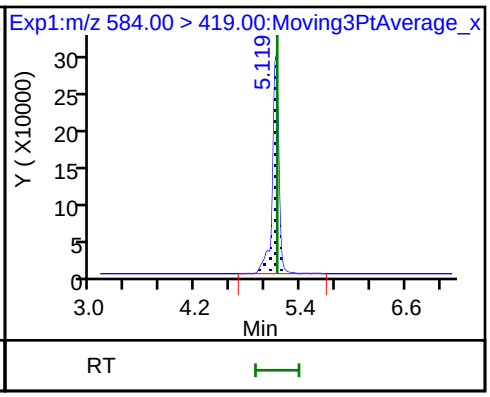
45 Perfluoroundecanoic acid



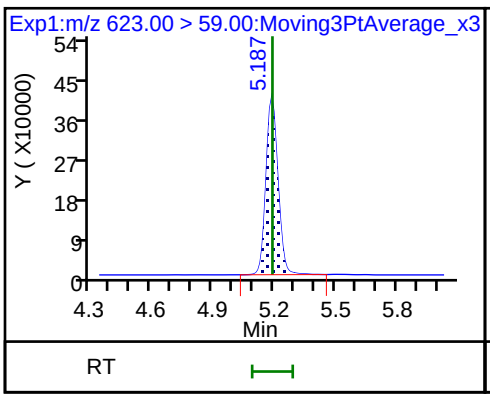
D 46 d5-NEtFOSAA



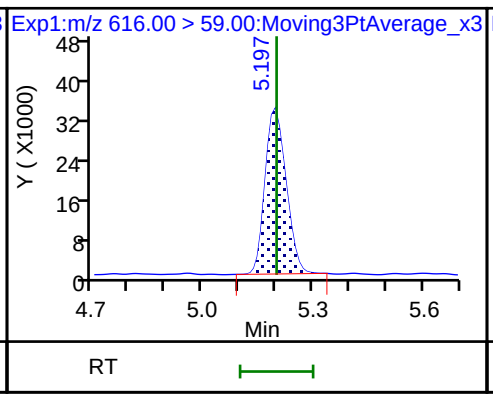
48 NEtFOSA



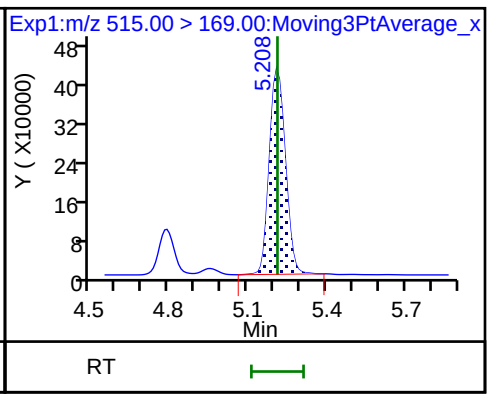
D 43 d7-N-MeFOSE-M



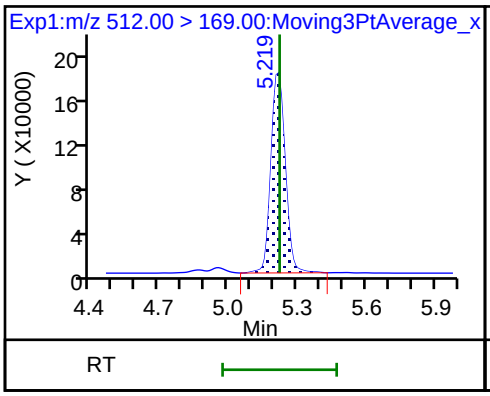
47 N-MeFOSE-M



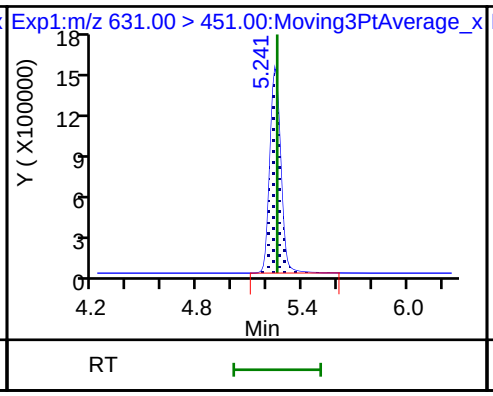
D 49 d-N-MeFOSA-M



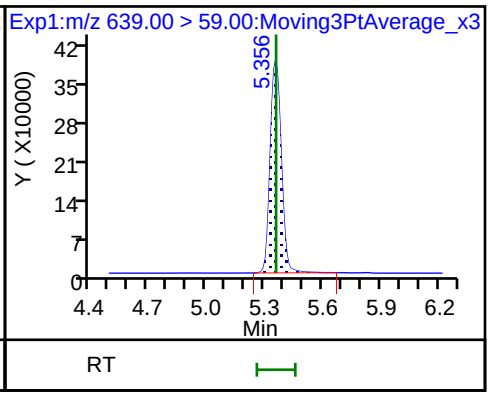
50 NMeFOSA



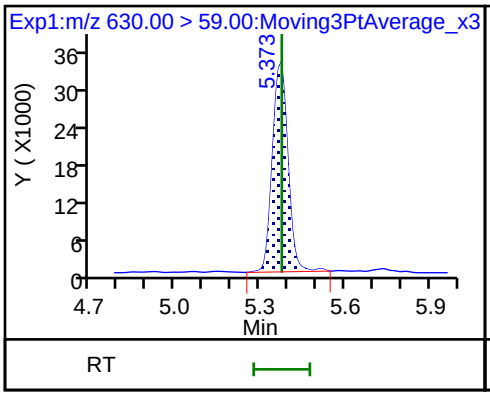
51 11ClFOS



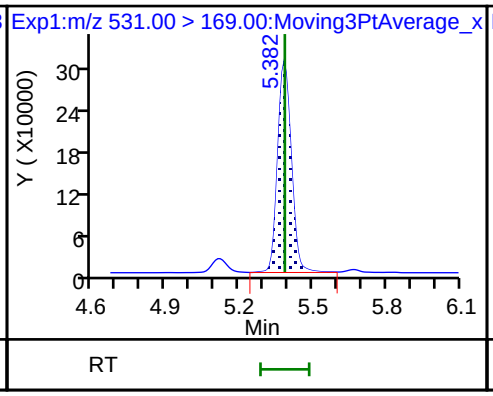
D 52 d9-N-EtFOSE-M



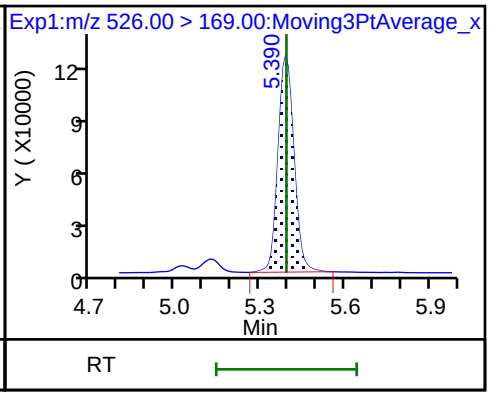
53 N-EtFOSE-M



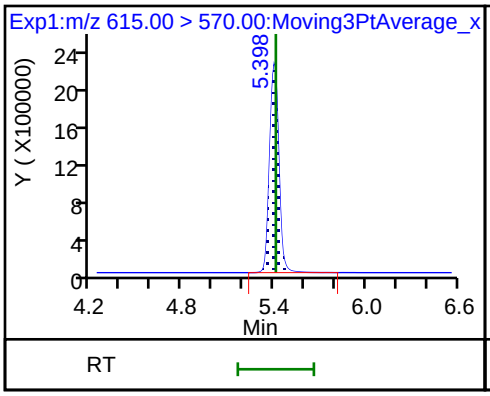
D 54 d-N-EtFOSA-M



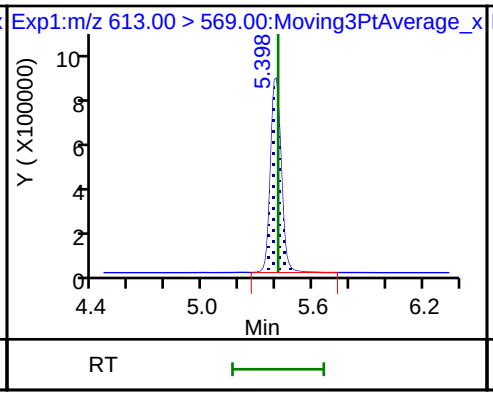
55 N-EtFOSA-M



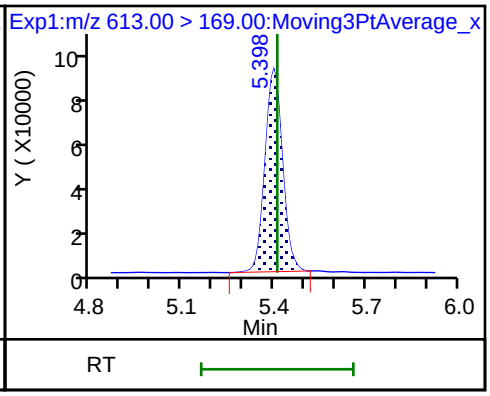
D 56 13C2 PFDoA



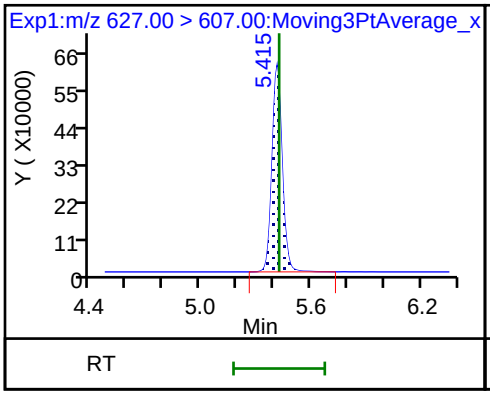
57 Perfluorododecanoic acid



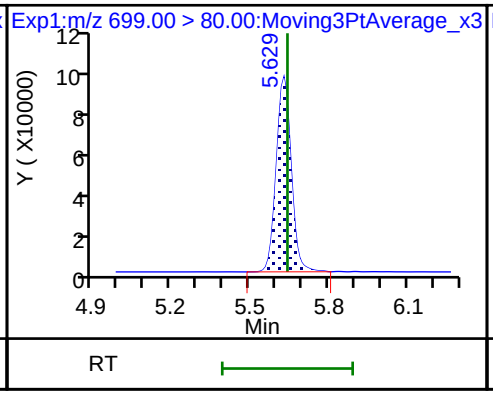
57 Perfluorododecanoic acid



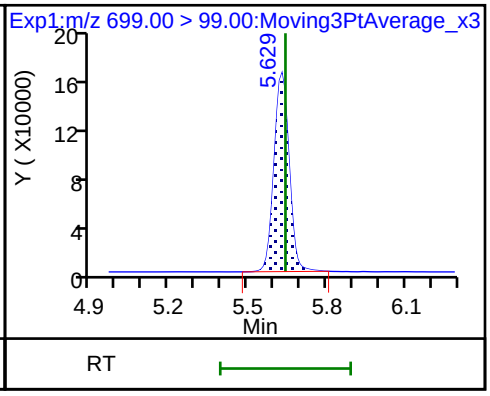
58 10:2 FTS



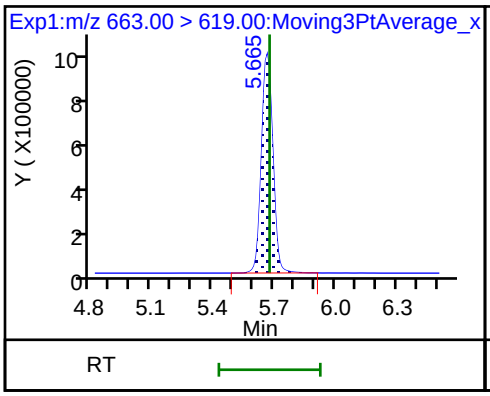
59 PFDoS



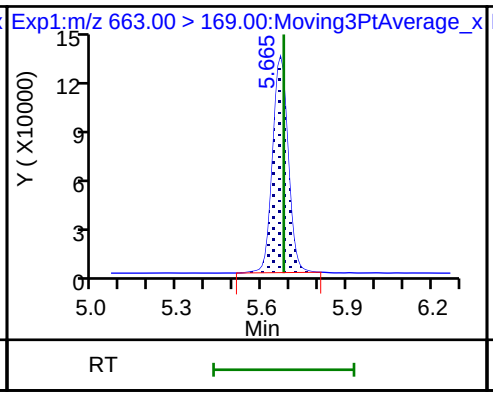
59 PFDoS



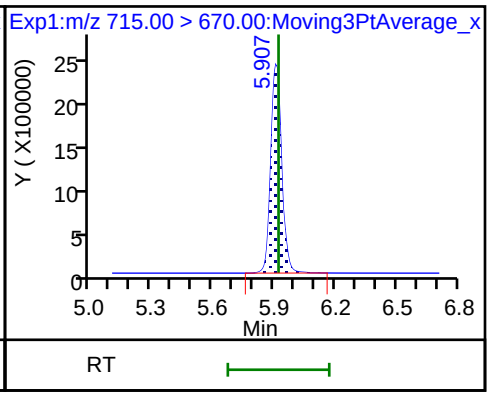
60 Perfluorotridecanoic acid



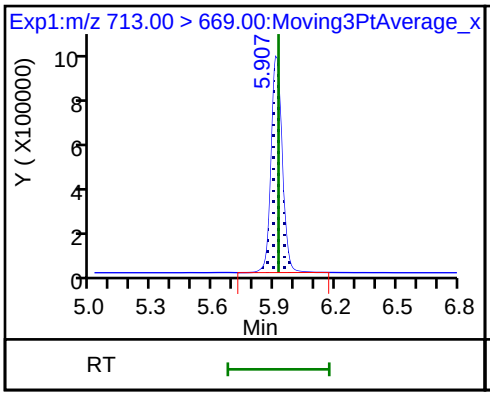
60 Perfluorotridecanoic acid



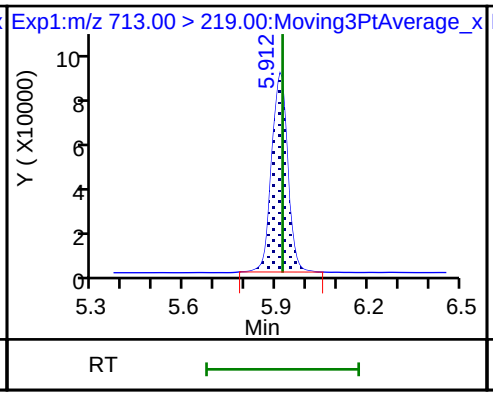
D 61 13C2 PFTeDA



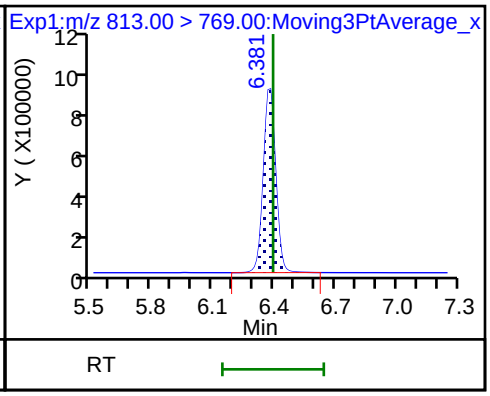
62 Perfluorotetradecanoic acid



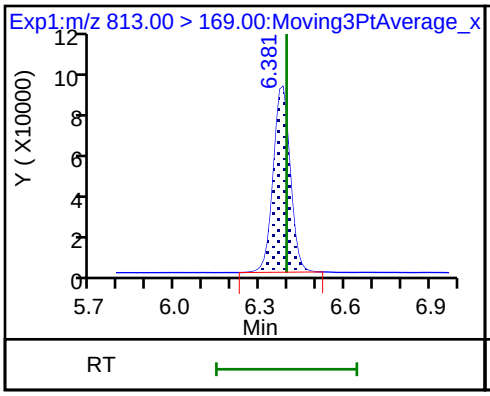
62 Perfluorotetradecanoic acid



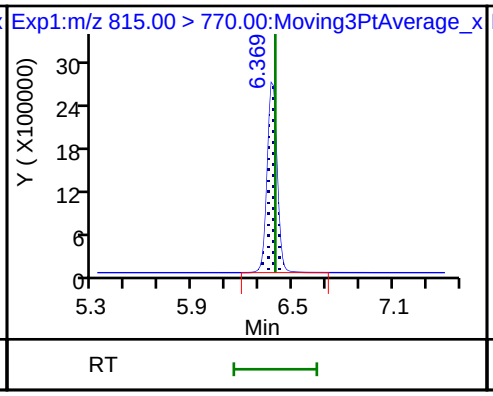
63 Perfluorohexadecanoic acid



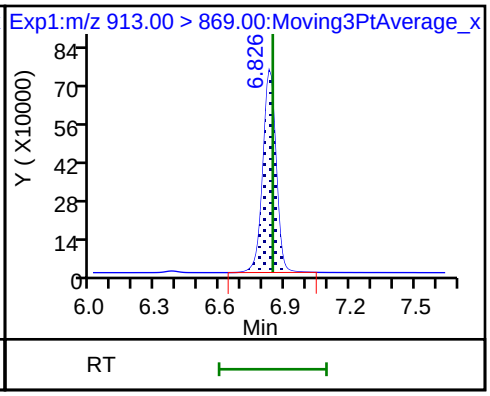
63 Perfluorohexadecanoic acid



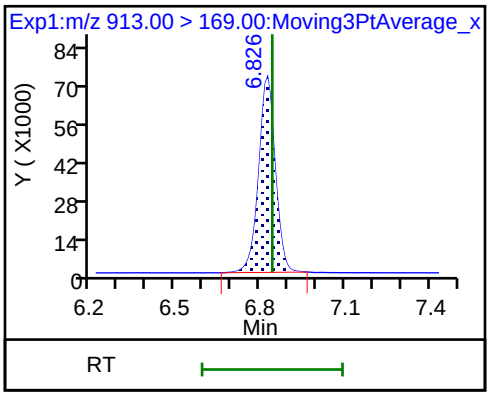
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

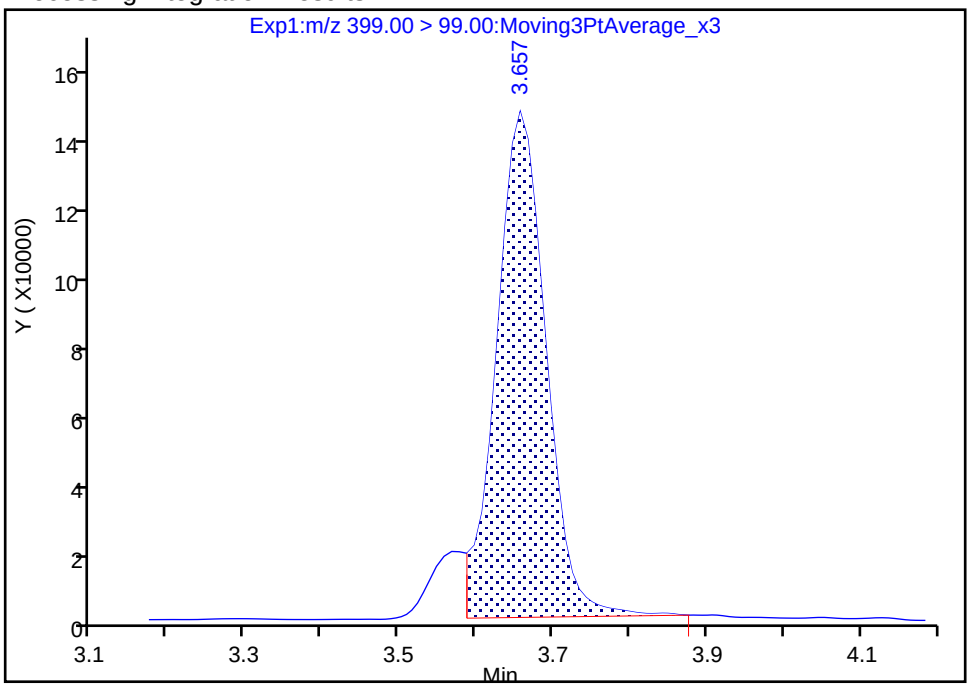
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_060.d
Injection Date: 10-Sep-2020 18:17:18 Instrument ID: A13
Lims ID: LCS 320-410906/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 33 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector EXP1

18 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

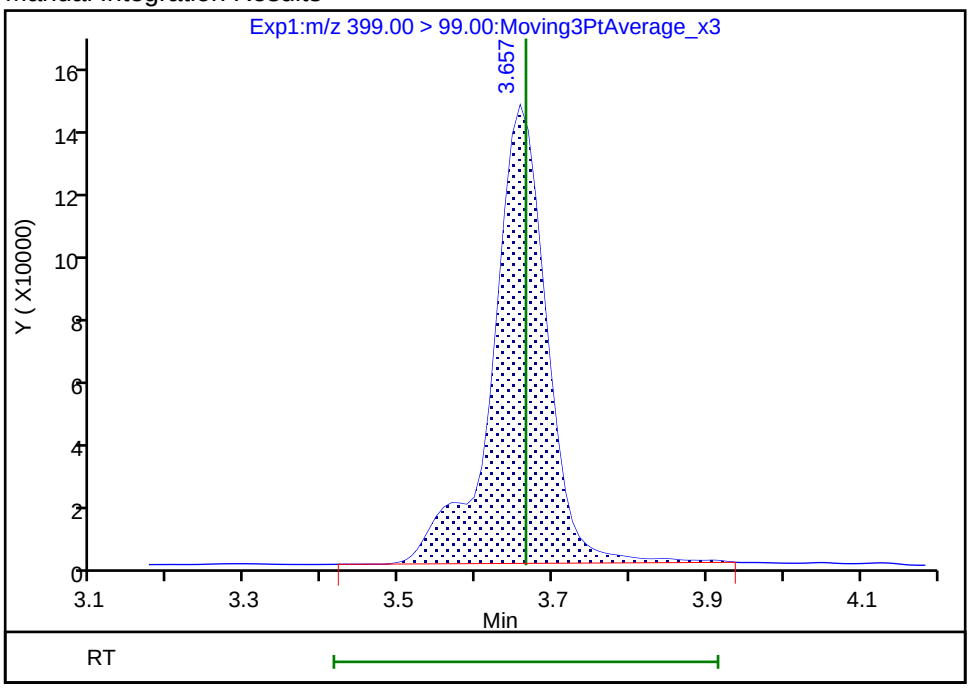
Processing Integration Results

RT: 3.66
Area: 643716
Amount: 0.843511
Amount Units: ng/ml



Manual Integration Results

RT: 3.66
Area: 712928
Amount: 0.843511
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:48:12
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Sacramento

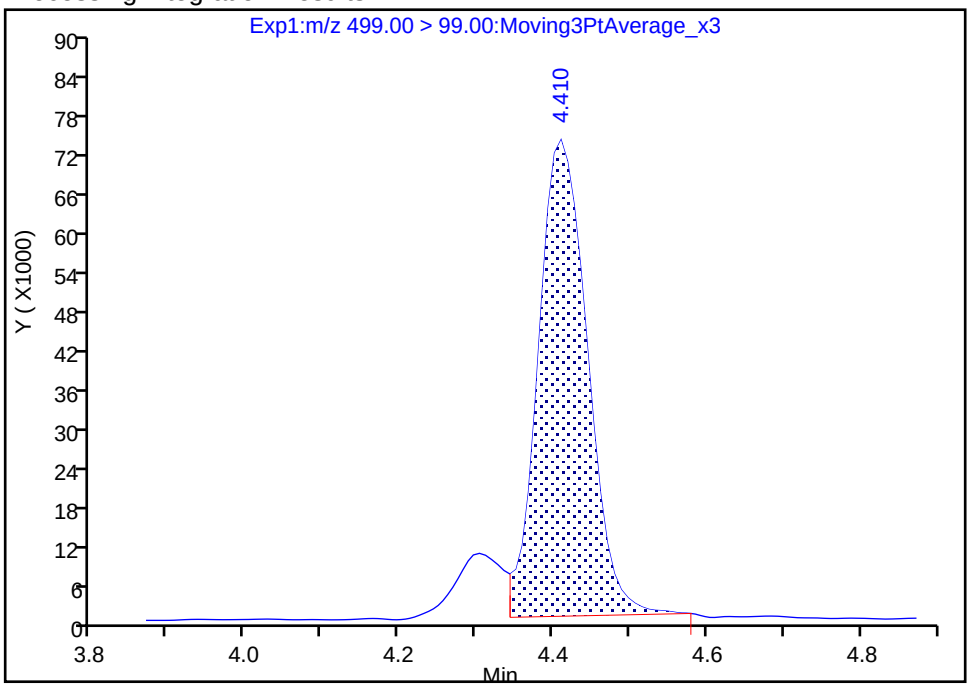
Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_060.d
Injection Date: 10-Sep-2020 18:17:18 Instrument ID: A13
Lims ID: LCS 320-410906/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 33 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFAS_A13 Limit Group: LC PFC ICAL
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector EXP1

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

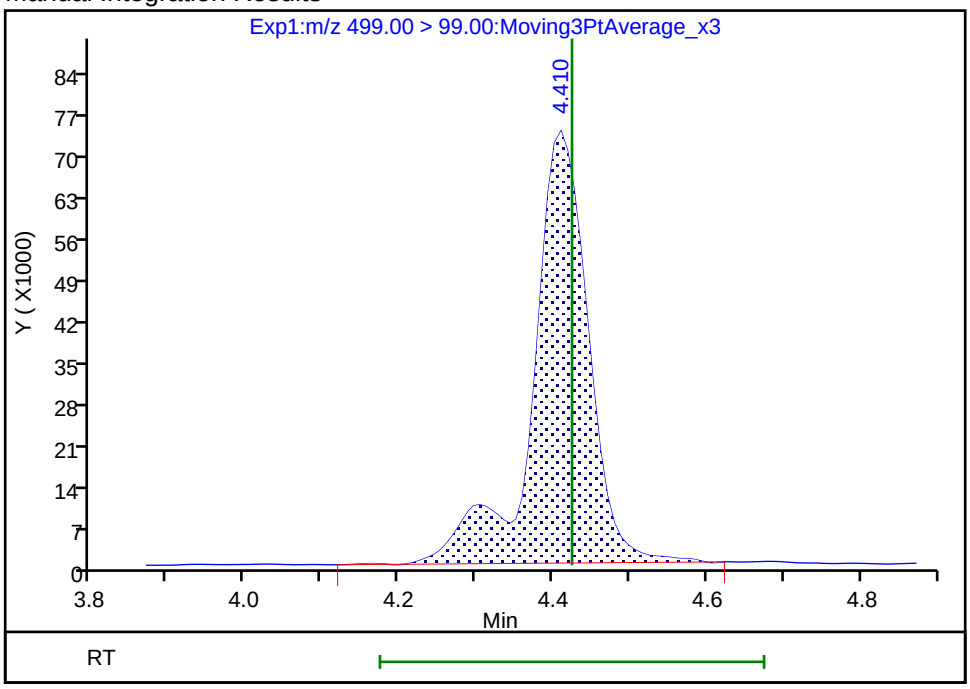
Processing Integration Results

RT: 4.41
Area: 322629
Amount: 0.971501
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 370980
Amount: 0.971501
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:48:18
Audit Action: Manually Integrated Audit Reason: Isomers

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-410906/3-A

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_061.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 18:26

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	40.94		2.00	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	37.79		2.00	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	38.69		2.00	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	39.70		2.00	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.54		2.00	0.85
375-95-1	Perfluorononanoic acid (PFNA)	39.84		2.00	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	39.91		2.00	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	38.05		2.00	1.10
307-55-1	Perfluorododecanoic acid (PFDoA)	42.61		2.00	0.55
72629-94-8	Perfluorotridecanoic acid (PFTriA)	38.43		2.00	1.30
376-06-7	Perfluorotetradecanoic acid (PFTeA)	41.06		2.00	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.86		2.00	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.49		2.00	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	38.52		2.00	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.48		2.00	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	36.88		2.00	0.32
754-91-6	Perfluorooctanesulfonamide (FOSA)	40.35		2.00	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	41.43		20.0	3.10
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.81		20.0	1.90
27619-97-2	6:2 FTS	37.38		20.0	2.00
39108-34-4	8:2 FTS	36.01		20.0	2.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 320-410906/3-A

Matrix: Water Lab File ID: 2020.09.10_A13_PFC_A_061.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 09/09/2020 18:39

Sample wt/vol: 250(mL) Date Analyzed: 09/10/2020 18:26

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 411143 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88		25-150
STL01893	13C5 PFPeA	91		25-150
STL00993	13C2 PFHxA	88		25-150
STL01892	13C4 PFHpA	87		25-150
STL00990	13C4 PFOA	85		25-150
STL00995	13C5 PFNA	87		25-150
STL00996	13C2 PFDA	82		25-150
STL00997	13C2 PFUnA	85		25-150
STL00998	13C2 PFDoA	75		25-150
STL02116	13C2 PFTeDA	69		25-150
STL02337	13C3 PFBS	96		25-150
STL00994	18O2 PFHxS	97		25-150
STL00991	13C4 PFOS	94		25-150
STL01056	13C8 FOSA	83		25-150
STL02118	d3-NMeFOSAA	82		25-150
STL02117	d5-NEtFOSAA	86		25-150
STL02279	M2-6:2 FTS	98		25-150
STL02280	M2-8:2 FTS	99		25-150

Eurofins TestAmerica, Sacramento
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_061.d
Lims ID: LCSD 320-410906/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 10-Sep-2020 18:26:42 ALS Bottle#: 34 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: lcsd 320-410906/3-a
Misc. Info.: Plate: 1 Rack: 4
Operator ID: SACINSTLCMS01 Instrument ID: A13

Method: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\PFAS_A13.m
Limit Group: LC PFC ICAL
Last Update: 11-Sep-2020 08:51:04 Calib Date: 08-Sep-2020 18:58:15
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Sacramento\ChromData\A13\20200908-102913.b\2020.09.08_A13_PFC_ICALX_010.d

Column 1 : Gemini C18 3um 3 x 100mm (3.00 mm) Det: EXP1
Process Host: CTX1053

First Level Reviewer: mongkols Date: 11-Sep-2020 08:51:04
Ratio Calibration: CCV Sample: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_058.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.475	2.475	0.0	0.611	8611050	2.19		87.6	12012	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.475	2.482	-0.007	1.000	2619959	1.02		102	360	
D 4 13C5 PFPeA										
267.90 > 223.00	2.866	2.867	-0.001	0.708	6951390	2.27		90.7	12367	
5 Perfluoropentanoic acid										
262.90 > 219.00	2.866	2.867	-0.001	1.000	2699913	0.9447		94.5	144	
D 14 13C3 PFBS										
301.90 > 80.00	2.901	2.913	-0.012	0.716	8619888	2.24		96.3	14207	
6 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.901	2.913	-0.012	1.000	3159004	0.8716	Target=2.29	98.6	2710	
298.90 > 99.00	2.913	2.913	0.0	1.004	1436269		2.20(1.15-3.44)		554	
7 4:2 FTS										
327.00 > 307.00	3.215	3.215	0.0	1.000	2601875	0.8579		91.9	4305	
D 8 M2-4:2 FTS										
329.00 > 81.00	3.215	3.215	0.0	0.794	2183368	2.32		99.1	1101	
10 Perfluorohexanoic acid										
313.00 > 269.00	3.258	3.258	0.0	1.000	3010355	0.9673	Target=13.52	96.7	131	
313.00 > 119.00	3.258	3.258	0.0	1.000	240787		12.50(6.76-20.28)		74.8	
D 9 13C2 PFHxA										
315.00 > 270.00	3.258	3.258	0.0	0.804	8371557	2.21		88.4	2187	
11 Perfluoropentanesulfonic acid										
349.00 > 80.00	3.268	3.279	-0.011	1.126	2772904	0.9473	Target=2.44	101	1520	
349.00 > 99.00	3.268	3.279	-0.011	1.126	1116139		2.48(1.22-3.66)		683	
12 HPFO-DA										
285.00 > 169.00	3.380	3.380	0.0	1.003	650552	0.9490		94.9	1932	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 13 13C3 HFPO-DA										
287.00 > 169.00	3.371	3.380	-0.009	0.832	5766083	2.12		84.9	3739	
D 17 18O2 PFHxS										
403.00 > 84.00	3.665	3.665	0.0	0.905	5799004	2.30		97.2	40992	
16 Perfluoroheptanoic acid										
363.00 > 319.00	3.655	3.665	-0.010	1.000	3252873	0.99	Target=3.87	99.3	264	
363.00 > 169.00	3.655	3.665	-0.010	1.000	844935		3.85(1.93-5.80)		288	
18 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.655	3.665	-0.010	0.997	2215324	0.8122	Target=3.08	89.3	2144	
399.00 > 99.00	3.665	3.665	0.0	1.000	751703		2.95(1.54-4.62)		269	
D 15 13C4 PFHpA										
367.00 > 322.00	3.655	3.665	-0.010	0.902	8106799	2.17		86.9	4477	
19 DONA										
377.00 > 251.00	3.704	3.713	-0.009	0.840	8039648	0.9296	Target=2.76	98.7	7544	
377.00 > 85.00	3.704	3.713	-0.009	0.840	2828002		2.84(1.38-4.14)		2537	
D 20 M2-6:2 FTS										
429.00 > 81.00	4.026	4.042	-0.016	0.994	2531041	2.33		98.0	3091	
21 6:2 FTS										
427.00 > 407.00	4.026	4.042	-0.016	1.000	2396662	0.9344		98.6	1070	
22 Perfluoroheptanesulfonic acid										
449.00 > 80.00	4.042	4.051	-0.009	0.917	1846518	0.9629	Target=4.20	101	882	
449.00 > 99.00	4.042	4.051	-0.009	0.917	425476		4.34(2.10-6.30)		242	
D 24 13C4 PFOA										
417.00 > 372.00	4.050	4.059	-0.009	1.000	9651889	2.12		84.7	6464	
26 Perfluorooctanoic acid										
413.00 > 369.00	4.050	4.059	-0.009	1.000	3903860	0.9884	Target=2.99	98.8	592	
413.00 > 169.00	4.050	4.059	-0.009	1.000	1312635		2.97(1.50-4.49)		858	
* 25 13C2 PFOA										
415.00 > 370.00	4.050	4.059	-0.009		11572344	2.50			9428	
28 Perfluorooctanesulfonic acid										M
499.00 > 80.00	4.418	4.425	-0.007	1.002	1594456	0.9120	Target=4.13	98.3	336	
499.00 > 99.00	4.409	4.425	-0.016	1.000	402599		3.96(2.06-6.19)		383	M
D 29 13C4 PFOS										
503.00 > 80.00	4.409	4.425	-0.016	1.089	4024369	2.24		93.6	3330	
30 Perfluorononanoic acid										
463.00 > 419.00	4.426	4.433	-0.007	1.000	3466593	1.00	Target=7.70	99.6	702	
463.00 > 169.00	4.426	4.433	-0.007	1.000	448036		7.74(3.85-11.55)		586	
D 31 13C5 PFNA										
468.00 > 423.00	4.426	4.442	-0.016	1.093	9164716	2.18		87.0	8121	
32 9ClFOS										
531.00 > 351.00	4.615	4.620	-0.005	1.047	3889922	0.9236		99.1	2468	
D 34 13C8 FOSA										
506.00 > 78.00	4.743	4.740	0.003	1.171	5357665	2.07		82.9	7495	
33 Perfluorooctanesulfonamide										
498.00 > 78.00	4.743	4.740	0.003	1.000	2028652	1.01		101	2487	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorononanesulfonic acid										
549.00 > 80.00	4.760	4.766	-0.006	1.080	1245909	0.9551	Target=2.03	99.5	2009	
549.00 > 99.00	4.760	4.766	-0.006	1.080	572729		2.18(1.01-3.04)		699	
D 37 13C2 PFDA										
515.00 > 470.00	4.786	4.793	-0.007	1.182	10437260	2.05		81.8	11925	
36 Perfluorodecanoic acid										
513.00 > 469.00	4.786	4.793	-0.007	1.000	3733889	1.00	Target=10.40	99.8	1004	
513.00 > 169.00	4.786	4.793	-0.007	1.000	359323		10.39(5.20-15.61)		306	
D 38 M2-8:2 FTS										
529.00 > 81.00	4.786	4.802	-0.016	1.182	3417476	2.38		99.2	3968	
39 8:2 FTS										
527.00 > 507.00	4.786	4.802	-0.016	1.000	3174993	0.9001		94.0	5461	
D 40 d3-NMeFOSAA										
573.00 > 419.00	4.951	4.959	-0.008	1.222	5387883	2.05		81.9	5540	
41 NMeFOSAA										
570.00 > 419.00	4.951	4.959	-0.008	1.000	1798044	1.04		104	428	
42 Perfluorodecanesulfonic acid										
599.00 > 80.00	5.077	5.084	-0.007	1.151	1022714	0.9219	Target=2.35	95.6	918	
599.00 > 99.00	5.077	5.084	-0.007	1.151	440971		2.32(1.18-3.53)		868	
D 44 13C2 PFUnA										
565.00 > 520.00	5.106	5.113	-0.007	1.261	10651317	2.13		85.4	7567	
45 Perfluoroundecanoic acid										
563.00 > 519.00	5.106	5.113	-0.007	1.000	2680982	0.9513	Target=8.31	95.1	1073	
563.00 > 169.00	5.115	5.113	0.002	1.002	328498		8.16(4.15-12.46)		779	
D 46 d5-NEtFOSAA										
589.00 > 419.00	5.115	5.123	-0.008	1.263	5448264	2.14		85.6	2952	
48 NEtFOSA										
584.00 > 419.00	5.125	5.132	-0.007	1.002	1636974	0.9703		97.0	1589	
D 43 d7-N-MeFOSE-M										
623.00 > 59.00	5.183	5.190	-0.007	1.280	2152305	3.33		26.6	1335	
47 N-MeFOSE-M										
616.00 > 59.00	5.204	5.200	0.004	1.004	173306	0.9454		94.5	261	
D 49 d-N-MeFOSA-M										
515.00 > 169.00	5.216	5.212	0.004	1.288	1836160	1.51		60.4	36.6	
50 NMeFOSA										
512.00 > 169.00	5.216	5.223	-0.007	1.000	757305	1.05		105	171	
51 11ClFOS										
631.00 > 451.00	5.248	5.255	-0.007	1.190	6346181	0.8731		92.7	5447	
D 52 d9-N-EtFOSE-M										
639.00 > 59.00	5.354	5.359	-0.005	1.322	1971574	2.60		20.8	1208	
53 N-EtFOSE-M										
630.00 > 59.00	5.371	5.376	-0.005	1.003	158909	0.9731		97.3	160	
D 54 d-N-EtFOSA-M										
531.00 > 169.00	5.388	5.385	0.003	1.330	1335216	1.15		46.0	113	
55 N-EtFOSA-M										
526.00 > 169.00	5.396	5.393	0.003	1.002	560760	0.9887		98.9	115	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 56 13C2 PFDoA										
615.00 > 570.00	5.405	5.409	-0.004	1.334	10035502	1.87		74.7	11299	
57 Perfluorododecanoic acid										
613.00 > 569.00	5.396	5.409	-0.013	0.998	3900981	1.07	Target=9.00	107	2063	
613.00 > 169.00	5.405	5.409	-0.004	1.000	397692		9.81(4.50-13.49)		776	
58 10:2 FTS										
627.00 > 607.00	5.421	5.426	-0.005	1.133	2613700	1.12		116	4878	
59 PFDoS										
699.00 > 80.00	5.627	5.642	-0.015	1.276	400135	0.9239	Target=0.54	95.4	1152	
699.00 > 99.00	5.627	5.642	-0.015	1.276	667597		0.60(0.27-0.82)		1463	
60 Perfluorotridecanoic acid										
663.00 > 619.00	5.671	5.676	-0.005	1.049	3614896	0.9608	Target=6.96	96.1	1883	
663.00 > 169.00	5.671	5.676	-0.005	1.049	527159		6.86(3.48-10.45)		1722	
D 61 13C2 PFTeDA										
715.00 > 670.00	5.911	5.920	-0.009	1.459	9158135	1.73		69.0	9324	
62 Perfluorotetradecanoic acid										
713.00 > 669.00	5.911	5.920	-0.009	1.000	3701396	1.03	Target=10.31	103	2012	
713.00 > 219.00	5.911	5.920	-0.009	1.000	346774		10.67(5.16-15.47)		1124	
63 Perfluorohexadecanoic acid										
813.00 > 769.00	6.379	6.393	-0.014	1.000	3875828	0.9486	Target=9.94	94.9	2440	
813.00 > 169.00	6.379	6.393	-0.014	1.000	439715		8.81(4.97-14.90)		1493	
D 64 13C2 PFHxDA										
815.00 > 770.00	6.379	6.393	-0.014	1.575	10464476	1.90		75.8	8262	
65 Perfluorooctadecanoic acid										
913.00 > 869.00	6.825	6.842	-0.017	1.070	3791071	1.24	Target=11.47	124	1718	
913.00 > 169.00	6.825	6.842	-0.017	1.070	302668		12.53(5.74-17.21)		1211	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 11-Sep-2020 08:51:05 Chrom Revision: 2.3 09-Sep-2020 15:12:58

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_061.d

Injection Date: 10-Sep-2020 18:26:42 Instrument ID: A13

Lims ID: LCSD 320-410906/3-A

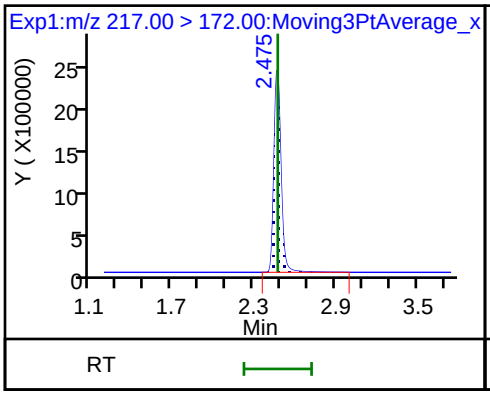
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 34 Worklist Smp#: 4

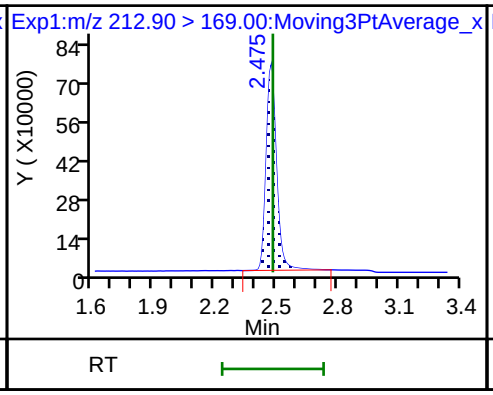
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFAS_A13 Limit Group: LC PFC ICAL

D 1 13C4 PFBA



2 Perfluorobutanoic acid



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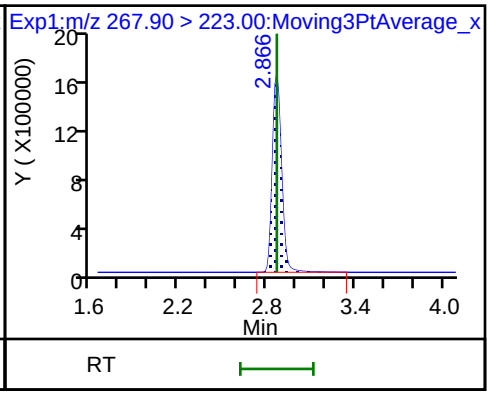

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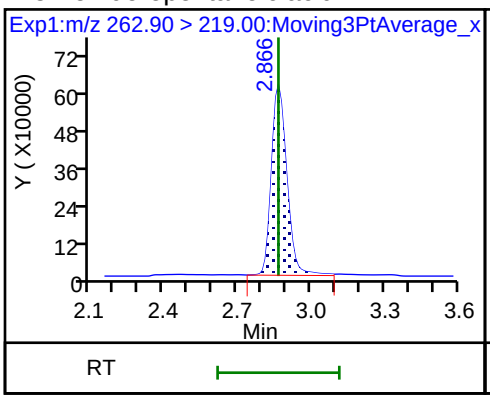
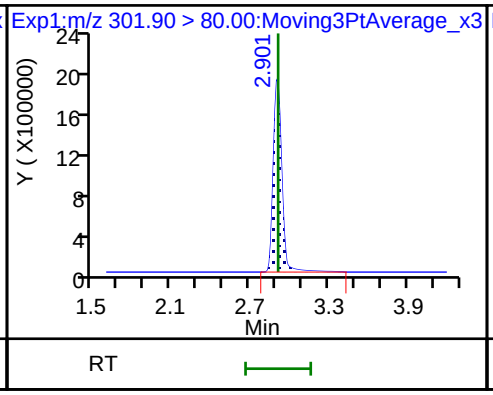
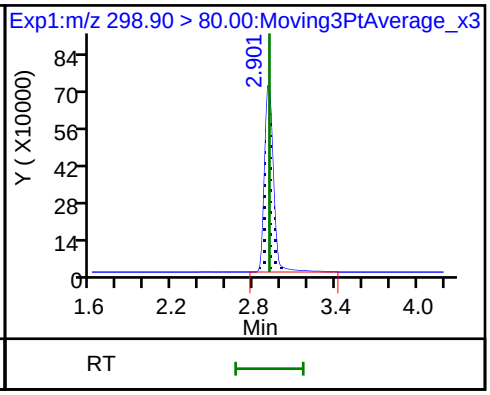


D 14 13C3 PFBS



6 Perfluorobutanesulfonic acid



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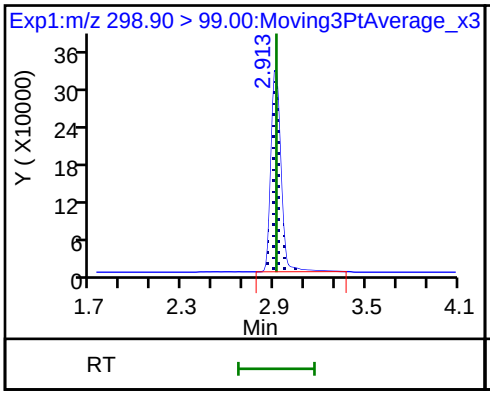
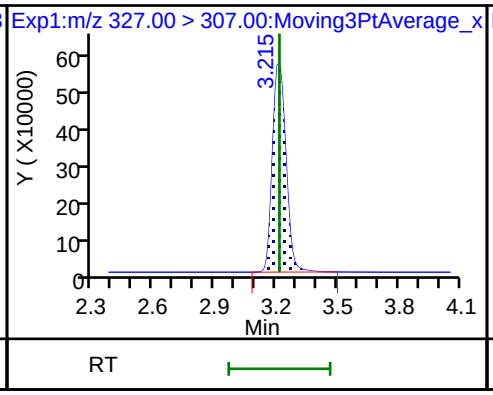
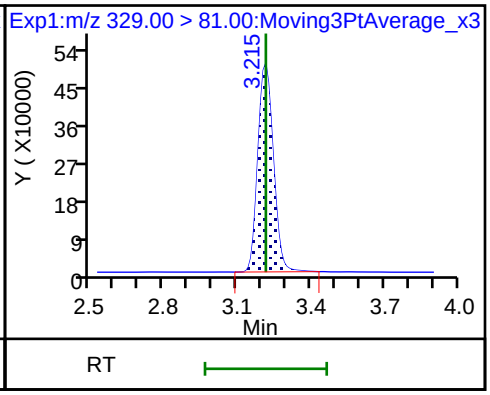


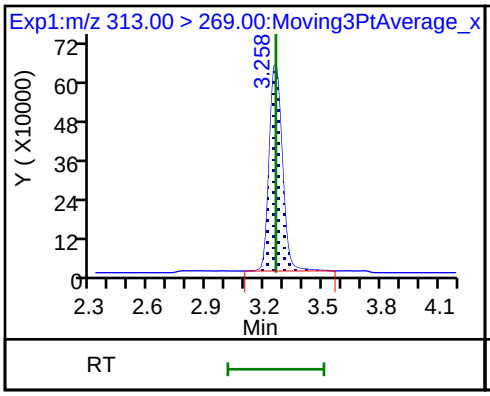
7 4:2 FTS



D 8 M2-4:2 FTS



10 Perfluorohexanoic acid



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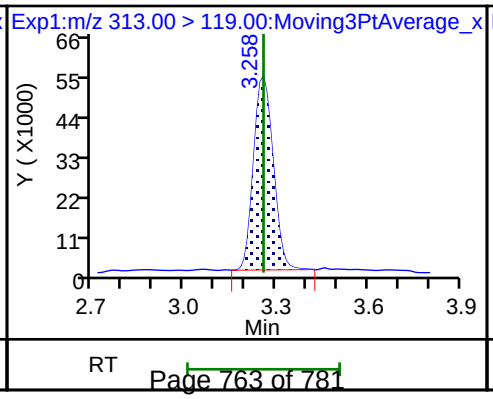
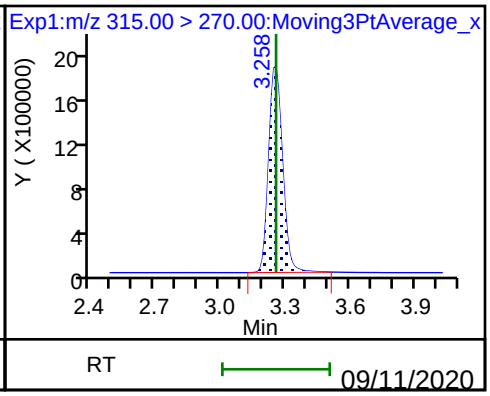


D 9 13C2 PFHxA



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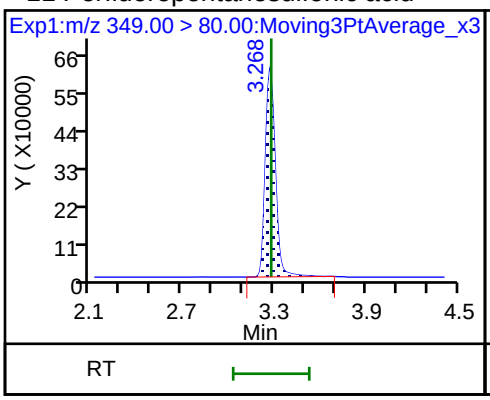

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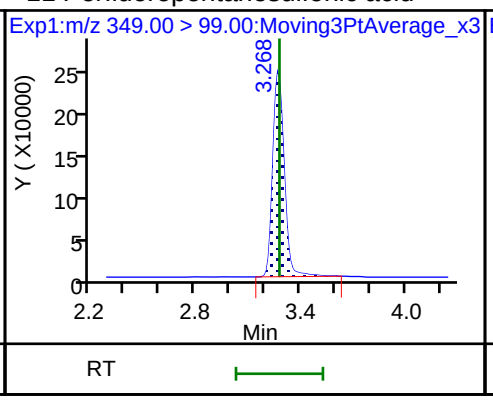
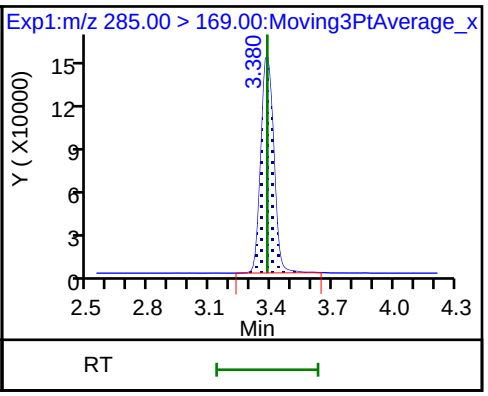
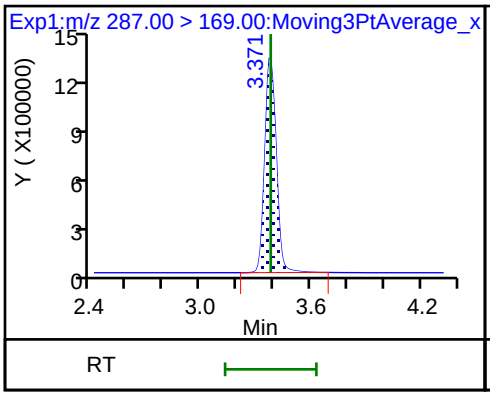


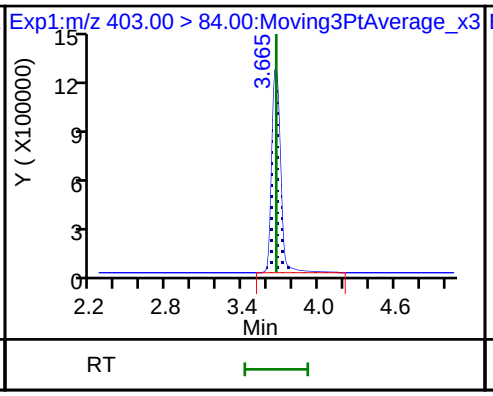
12 HPFO-DA



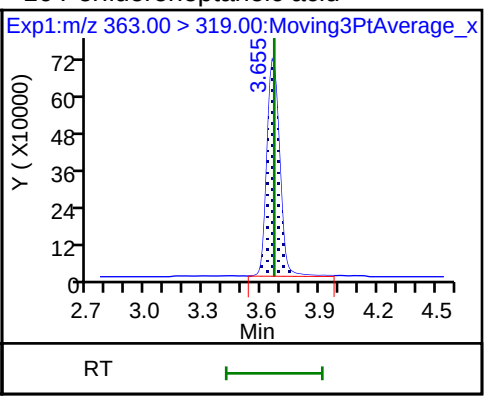
D 13 13C3 HFPO-DA



D 17 18O2 PFHxS



16 Perfluoroheptanoic acid



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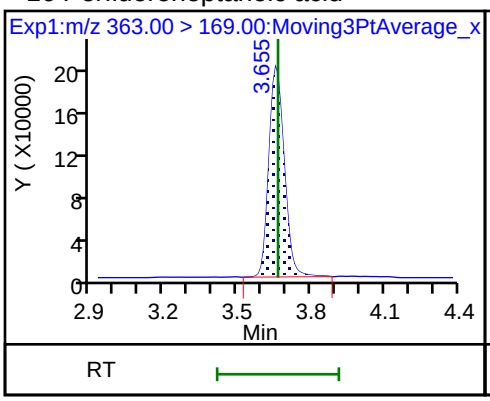

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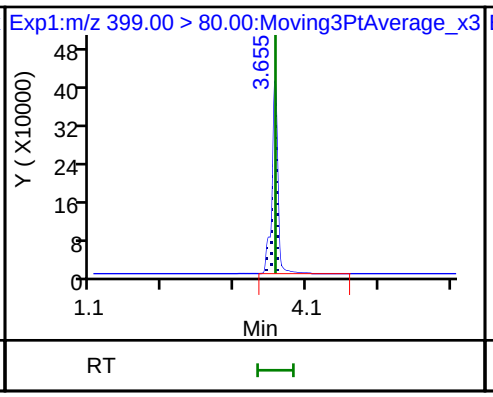

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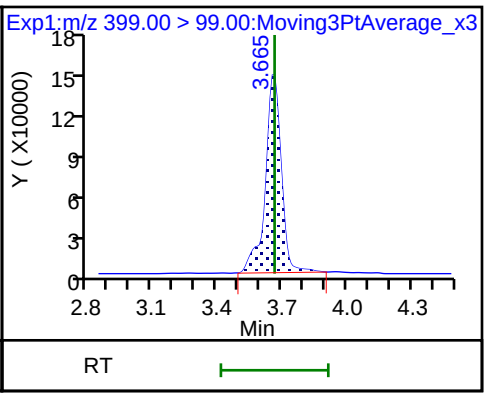
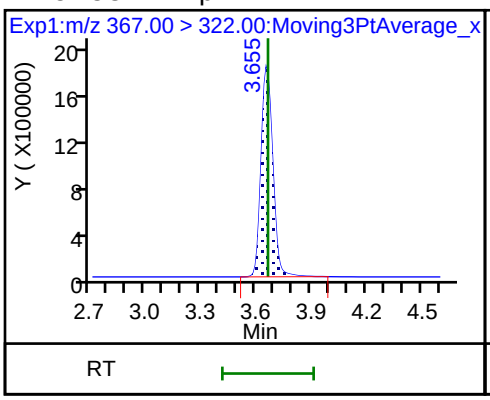


D 15 13C4 PFHpA



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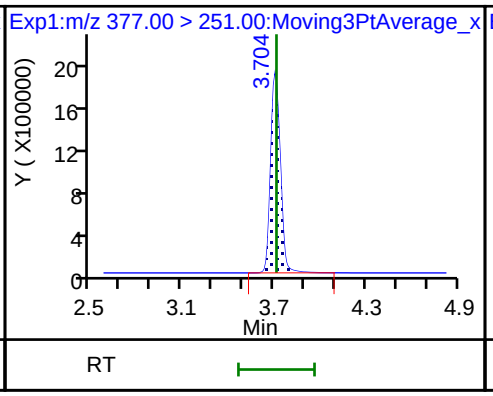

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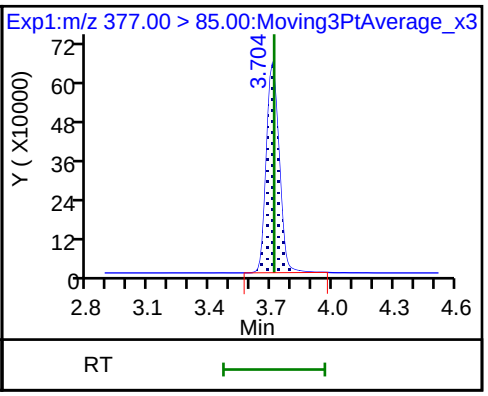
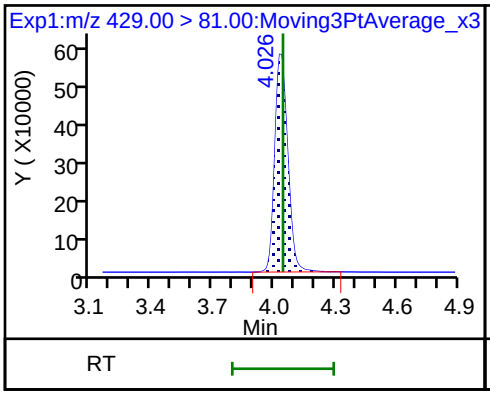


D 20 M2-6:2 FTS



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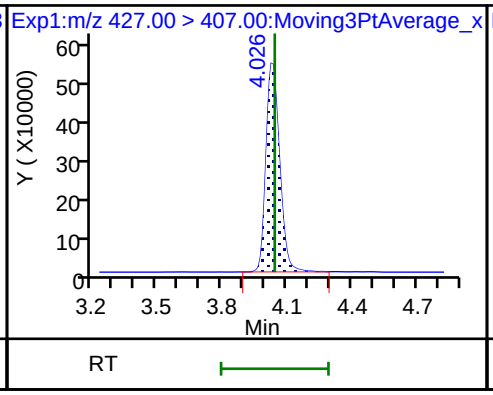
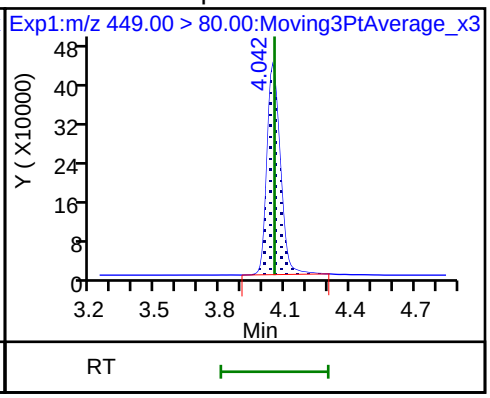


22 Perfluoroheptanesulfonic acid



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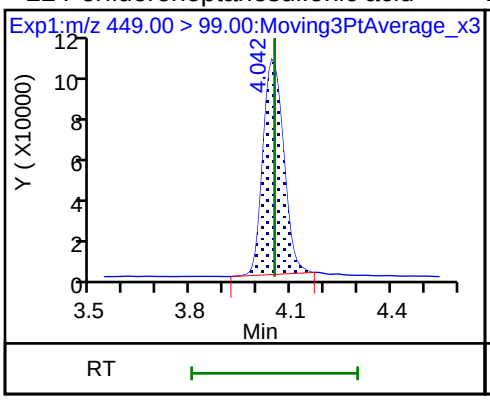
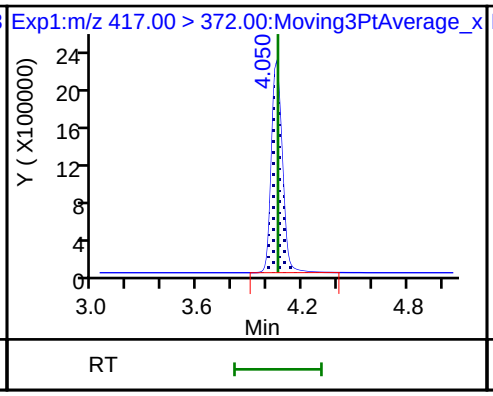
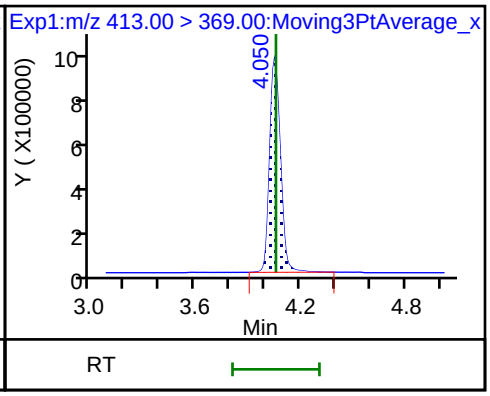


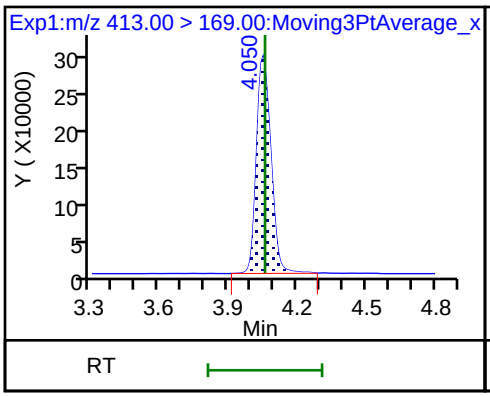
D 24 13C4 PFOA



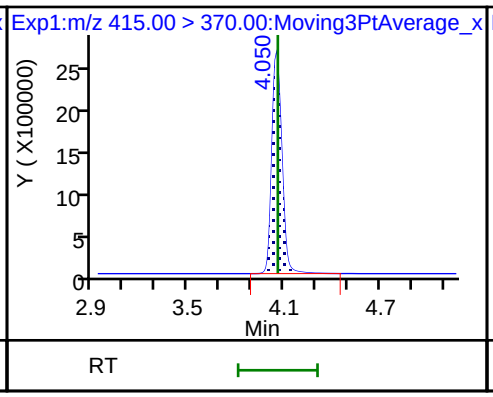
26 Perfluorooctanoic acid



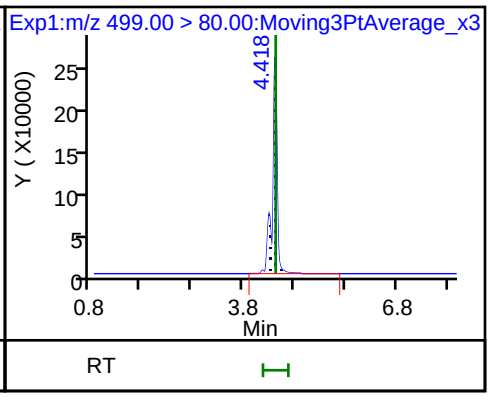
26 Perfluorooctanoic acid



* 25 13C2 PFOA



28 Perfluorooctanesulfonic acid



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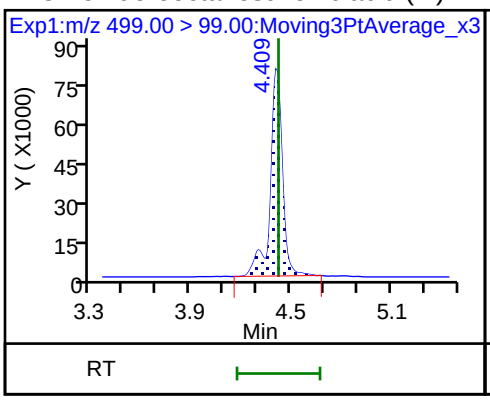
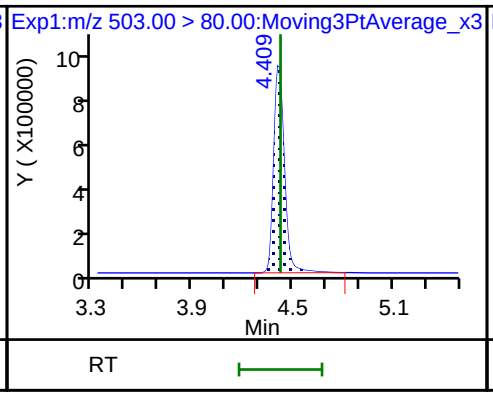


D 29 13C4 PFOS



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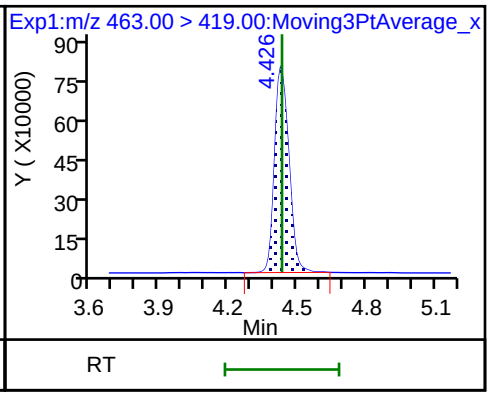

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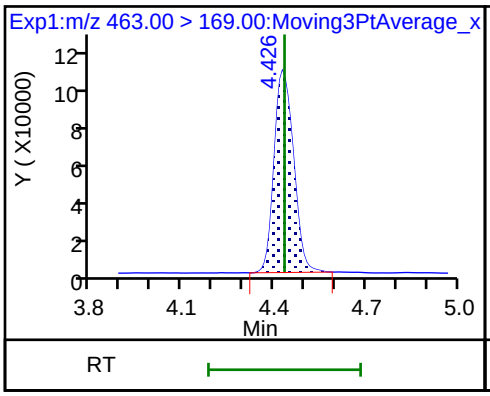

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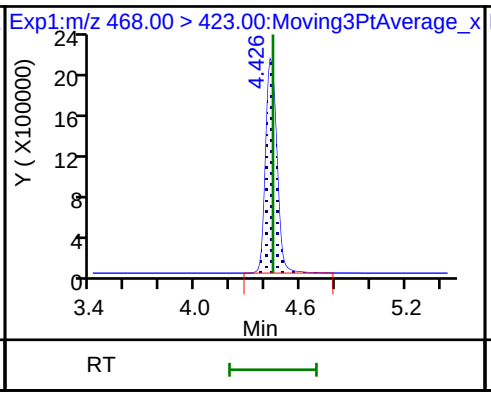
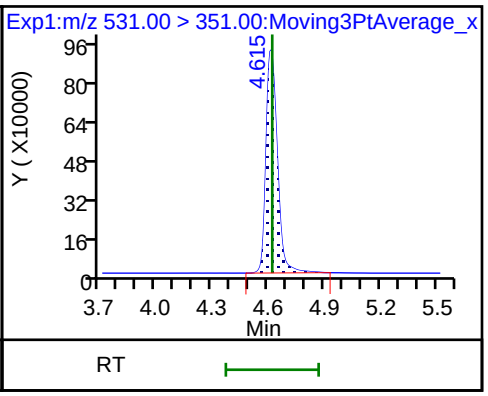


32 9ClFOS



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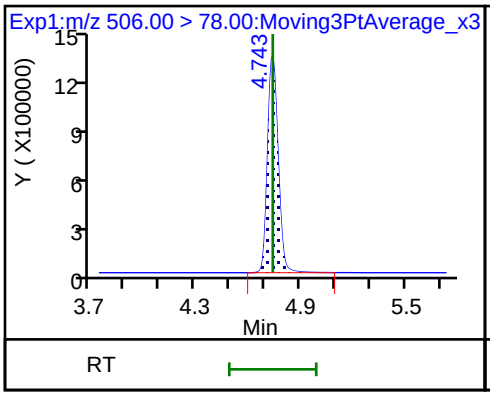
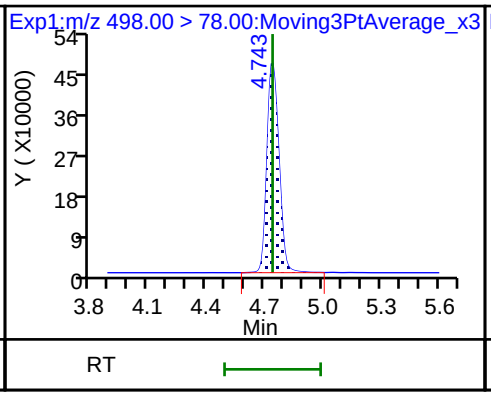


33 Perfluorooctanesulfonamide



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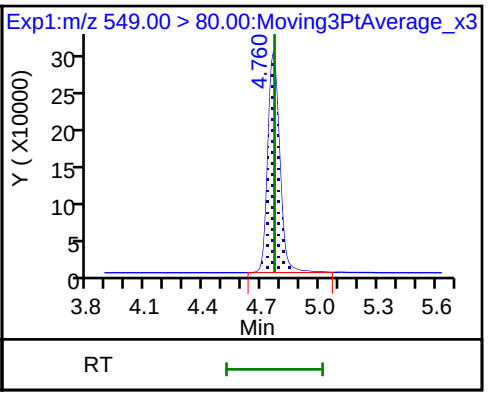

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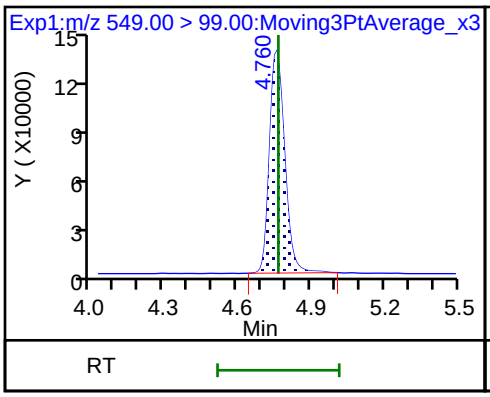

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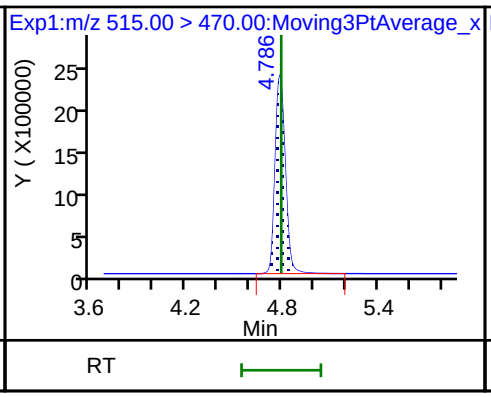
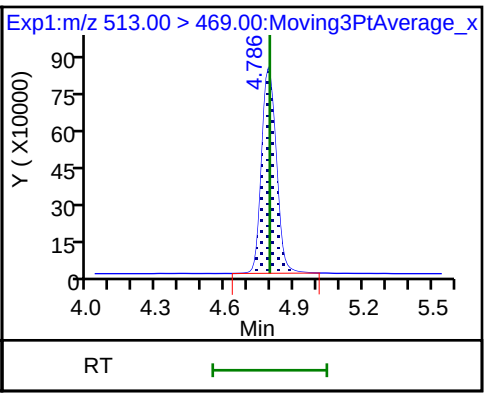


36 Perfluorodecanoic acid



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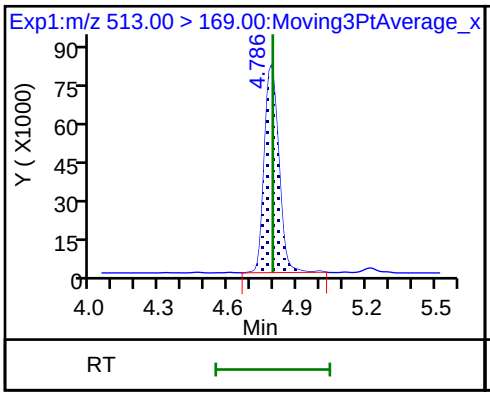
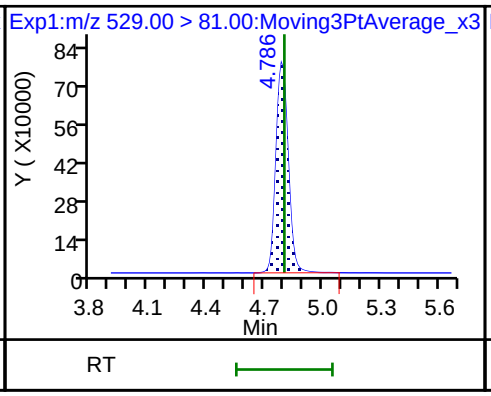
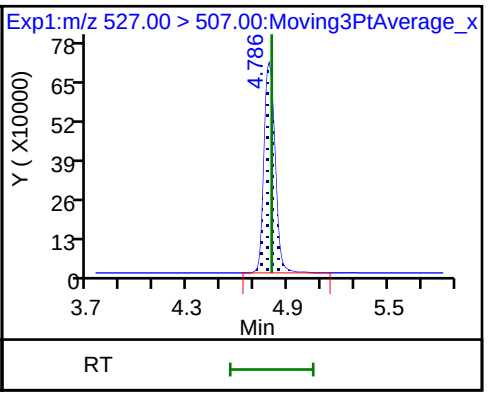


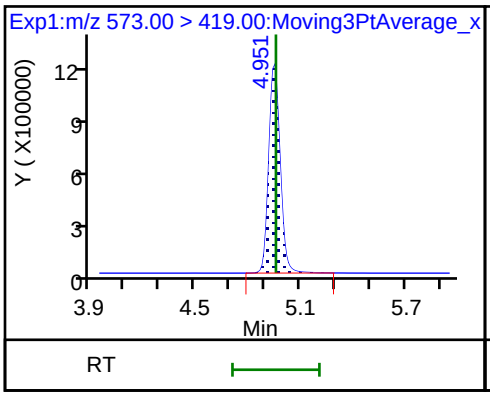
D 38 M2-8:2 FTS



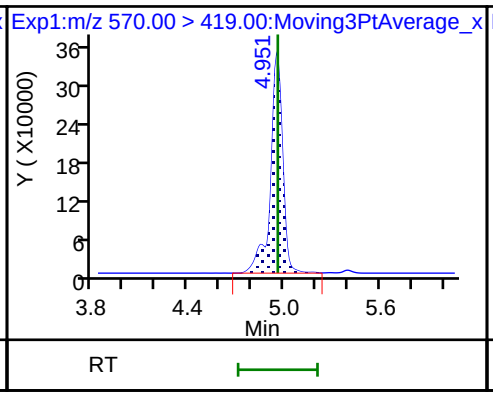
39 8:2 FTS



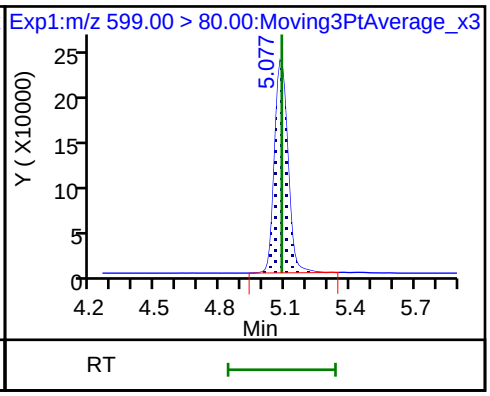
D 40 d3-NMeFOSAA



41 NMeFOSAA



42 Perfluorodecanesulfonic acid



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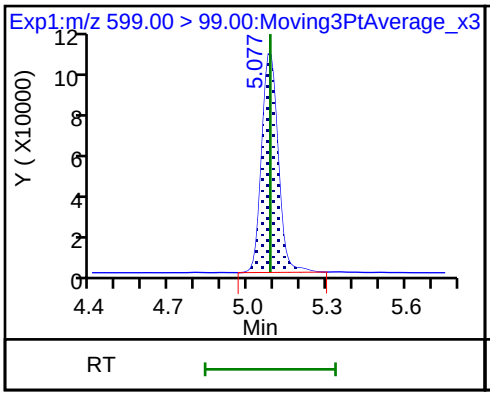
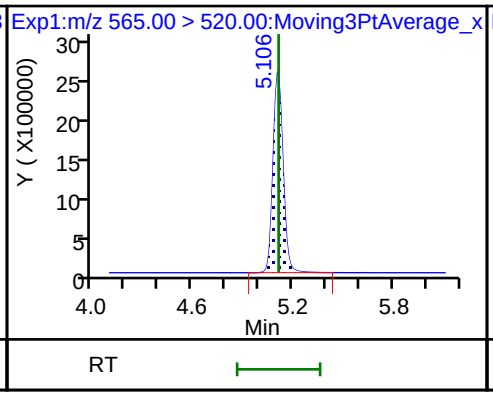
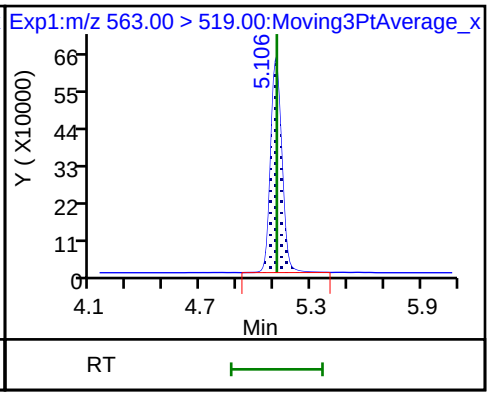


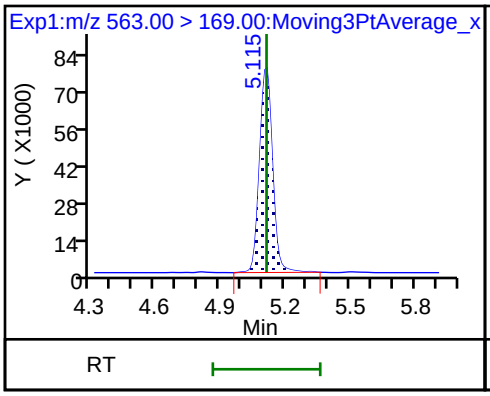
D 44 13C2 PFUnA



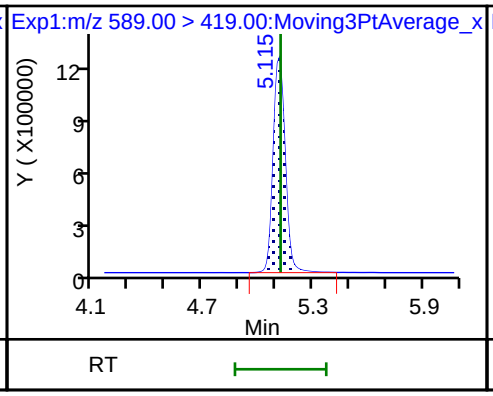
45 Perfluoroundecanoic acid



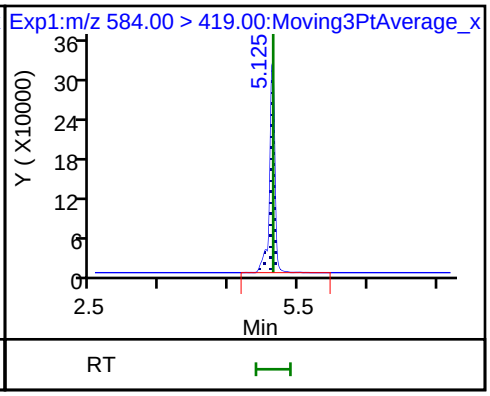
45 Perfluoroundecanoic acid



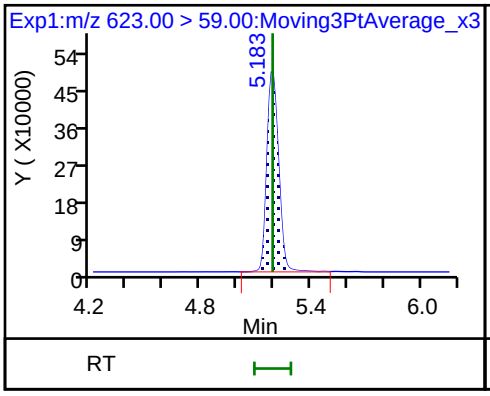
D 46 d5-NEtFOSAA



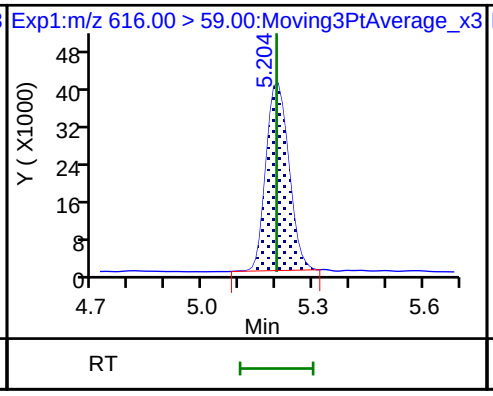
48 NEtFOSA



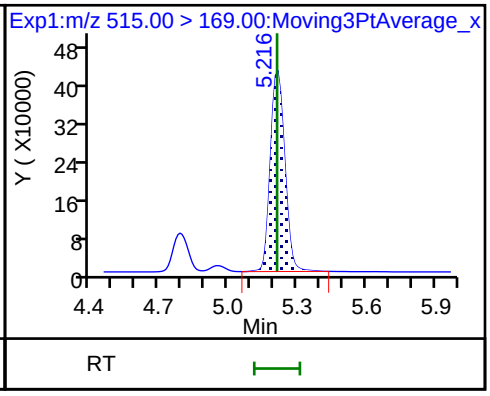
D 43 d7-N-MeFOSE-M



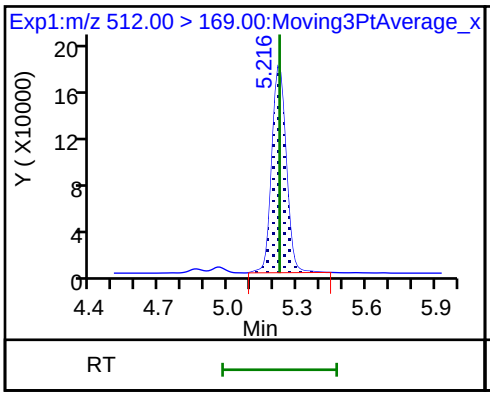
47 N-MeFOSE-M



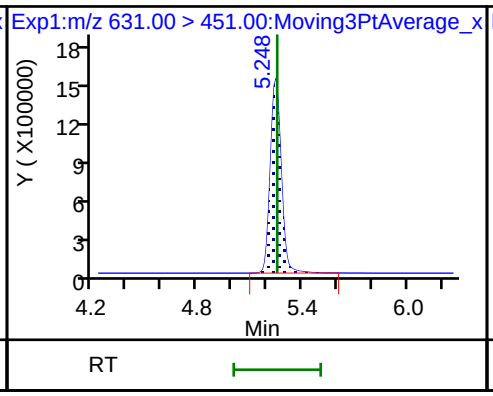
D 49 d-N-MeFOSA-M



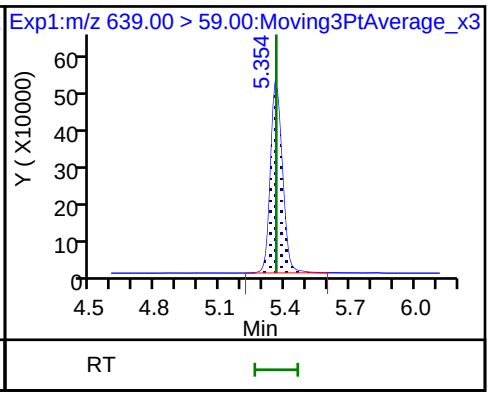
50 NMeFOSA



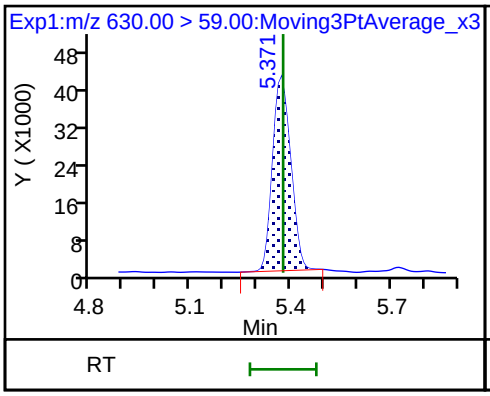
51 11ClFOS



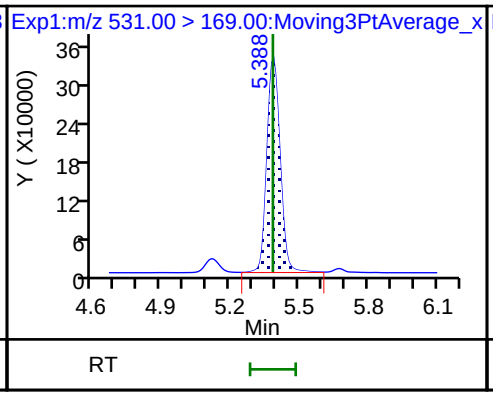
D 52 d9-N-EtFOSE-M



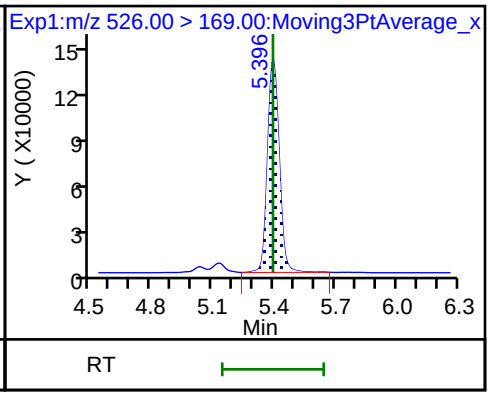
53 N-EtFOSE-M



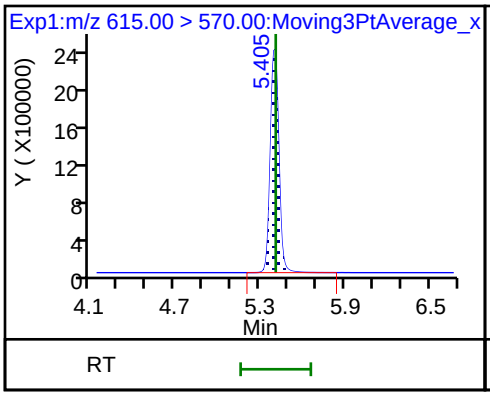
D 54 d-N-EtFOSA-M



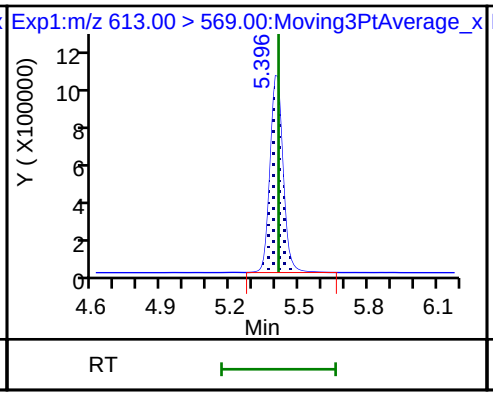
55 N-EtFOSA-M



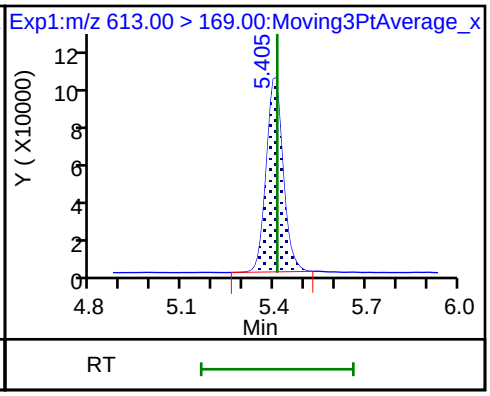
D 56 13C2 PFDoA



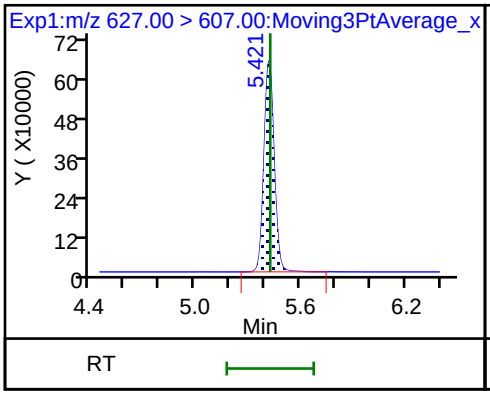
57 Perfluorododecanoic acid



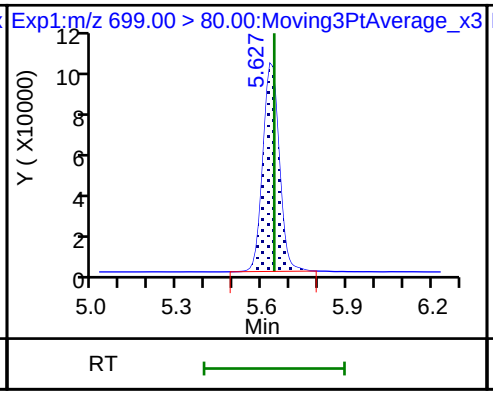
57 Perfluorododecanoic acid



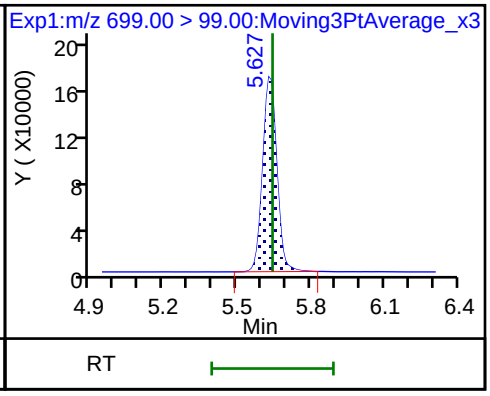
58 10:2 FTS



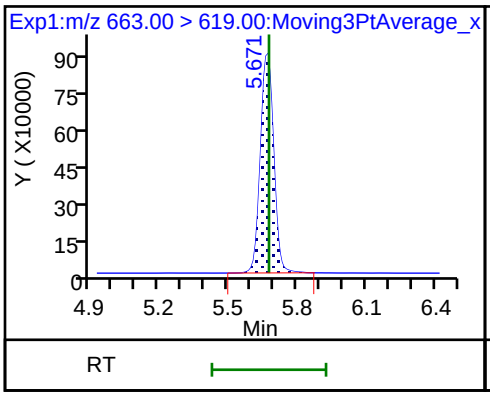
59 PFDoS



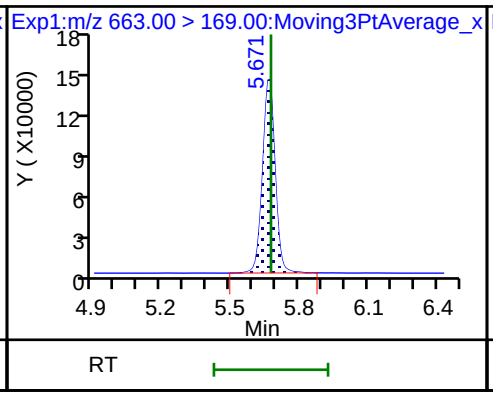
59 PFDoS



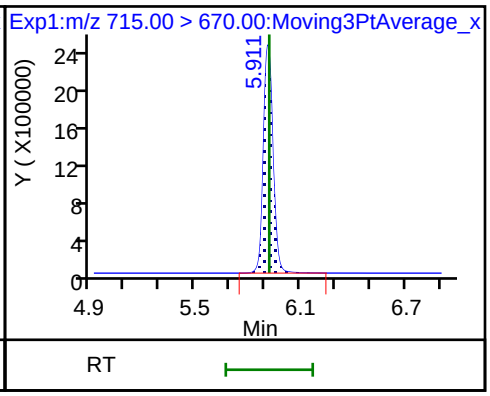
60 Perfluorotridecanoic acid



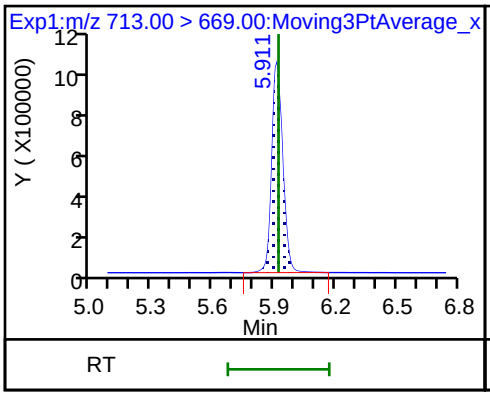
60 Perfluorotridecanoic acid



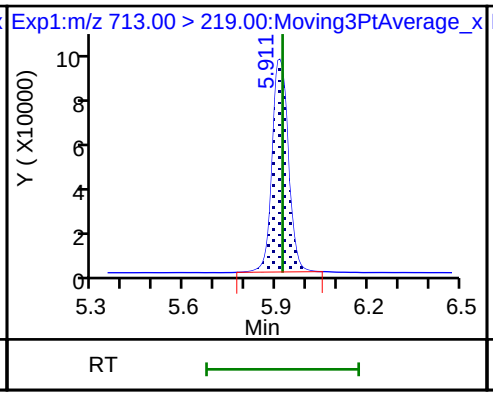
D 61 13C2 PFTeDA



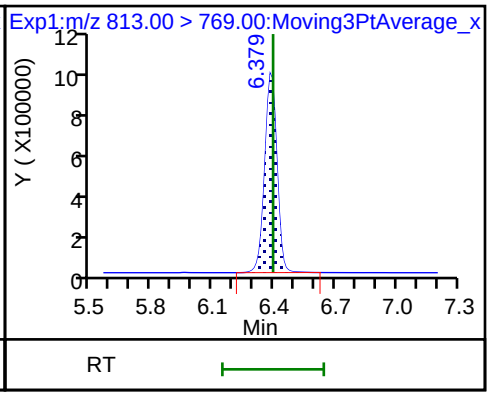
62 Perfluorotetradecanoic acid



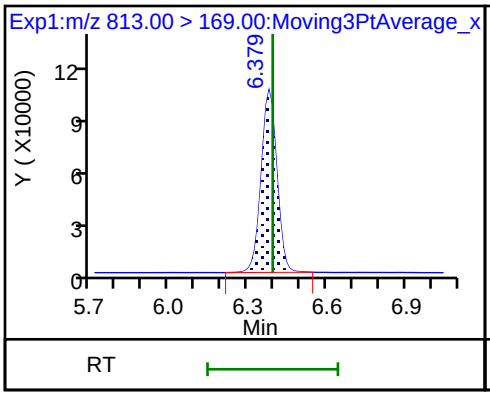
62 Perfluorotetradecanoic acid



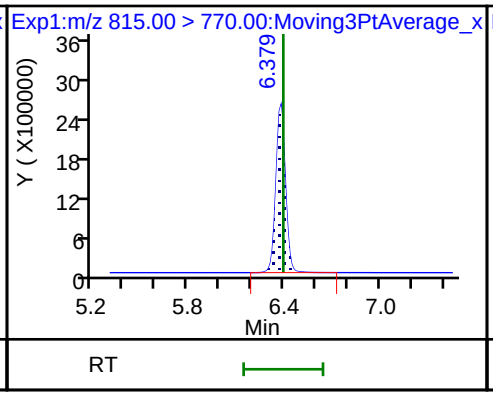
63 Perfluorohexadecanoic acid



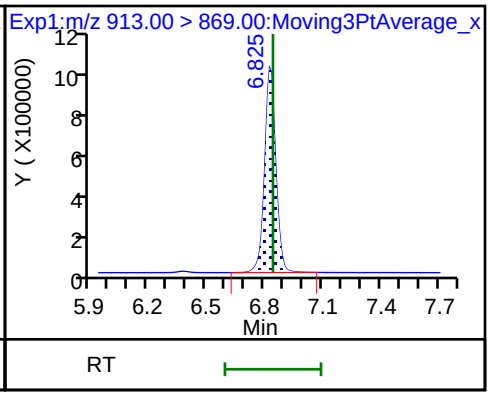
63 Perfluorohexadecanoic acid



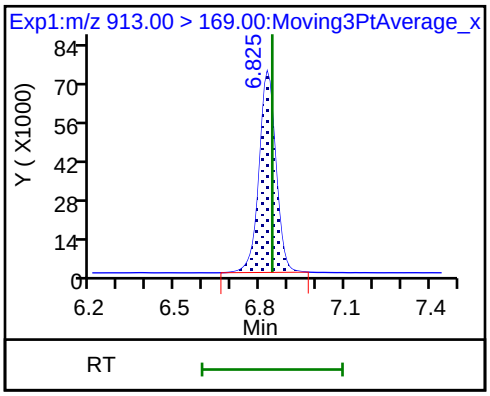
D 64 13C2 PFHxDA



65 Perfluorooctadecanoic acid



65 Perfluorooctadecanoic acid



Eurofins TestAmerica, Sacramento

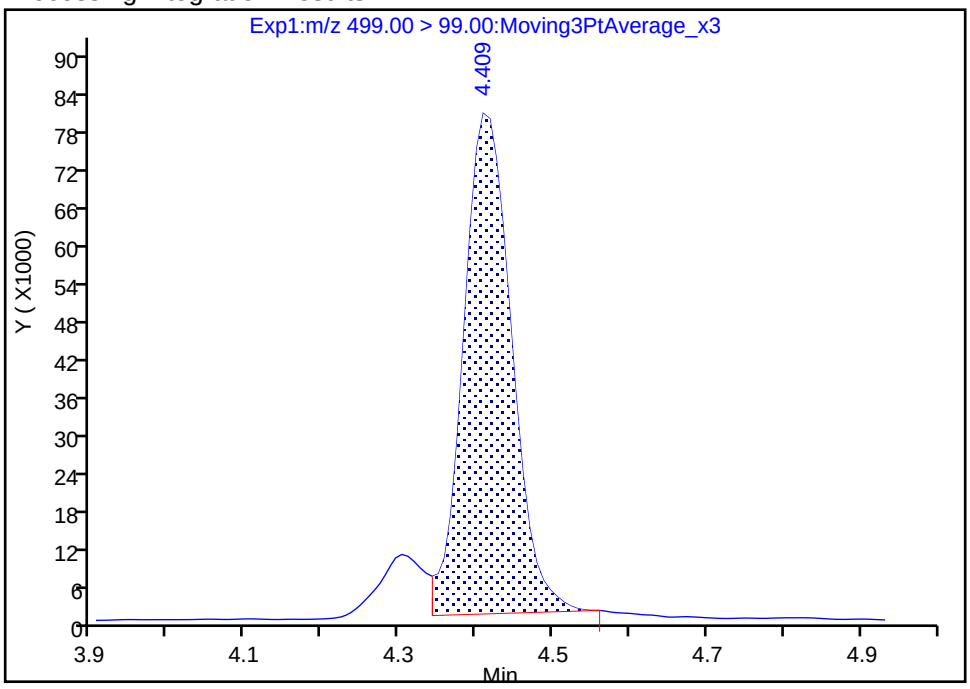
Data File:	\\chromfs\Sacramento\ChromData\A13\20200910-103052.b\2020.09.10_A13_PFC_A_061.d				
Injection Date:	10-Sep-2020 18:26:42	Instrument ID:	A13		
Lims ID:	LCSD 320-410906/3-A				
Client ID:					
Operator ID:	SACINSTLCMS01	ALS Bottle#:	34	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_A13	Limit Group:	LC PFC ICAL		
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector	EXP1		

28 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

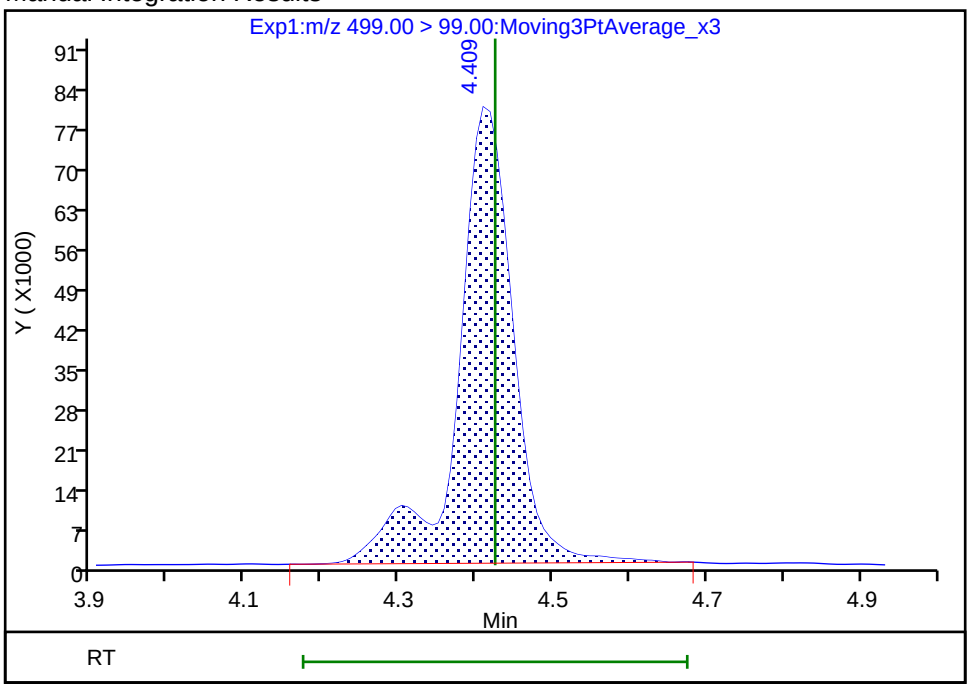
Processing Integration Results

RT: 4.41
Area: 346859
Amount: 0.911971
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 402599
Amount: 0.911971
Amount Units: ng/ml



Reviewer: mongkols, 11-Sep-2020 08:50:42
Audit Action: Manually Integrated Audit Reason: Isomers

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Instrument ID: A13 Start Date: 09/08/2020 18:01

Analysis Batch Number: 410486 End Date: 09/08/2020 19:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-410486/2		09/08/2020 18:01	1	2020.09.08_A13_PFC_ICALX_004.d	GeminiC18 3x100 3(mm)
IC 320-410486/3		09/08/2020 18:11	1	2020.09.08_A13_PFC_ICALX_005.d	GeminiC18 3x100 3(mm)
IC 320-410486/4		09/08/2020 18:20	1	2020.09.08_A13_PFC_ICALX_006.d	GeminiC18 3x100 3(mm)
IC 320-410486/5 ICIS		09/08/2020 18:30	1	2020.09.08_A13_PFC_ICALX_007.d	GeminiC18 3x100 3(mm)
IC 320-410486/6		09/08/2020 18:39	1	2020.09.08_A13_PFC_ICALX_008.d	GeminiC18 3x100 3(mm)
IC 320-410486/7		09/08/2020 18:48	1	2020.09.08_A13_PFC_ICALX_009.d	GeminiC18 3x100 3(mm)
IC 320-410486/8		09/08/2020 18:58	1	2020.09.08_A13_PFC_ICALX_010.d	GeminiC18 3x100 3(mm)
ICB 320-410486/9		09/08/2020 19:07	1	2020.09.08_A13_PFC_ICALX_011.d	GeminiC18 3x100 3(mm)
ICV 320-410486/10		09/08/2020 19:17	1	2020.09.08_A13_PFC_ICALX_012.d	GeminiC18 3x100 3(mm)
ZZZZZ		09/08/2020 19:26	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Instrument ID: A13 Start Date: 09/10/2020 10:36

Analysis Batch Number: 410989 End Date: 09/10/2020 11:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-410989/1		09/10/2020 10:36	1	2020.09.10_A13_PFC A 004.d	GeminiC18 3x100 3(mm)
CCVL 320-410989/2		09/10/2020 10:46	1	2020.09.10_A13_PFC A 005.d	GeminiC18 3x100 3(mm)
CCV 320-410989/3 CCVIS		09/10/2020 10:55	1	2020.09.10_A13_PFC A 006.d	GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 11:04	10		GeminiC18 3x100 3(mm)
CCV 320-410989/5		09/10/2020 11:14	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 460-217659-1

SDG No.:

Instrument ID: A13 Start Date: 09/10/2020 17:58

Analysis Batch Number: 411143 End Date: 09/10/2020 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-411143/1		09/10/2020 17:58	1	2020.09.10_A13_PFC_A_058.d	GeminiC18 3x100 3(mm)
MB 320-410906/1-A		09/10/2020 18:07	1	2020.09.10_A13_PFC_A_059.d	GeminiC18 3x100 3(mm)
LCS 320-410906/2-A		09/10/2020 18:17	1	2020.09.10_A13_PFC_A_060.d	GeminiC18 3x100 3(mm)
LCSD 320-410906/3-A		09/10/2020 18:26	1	2020.09.10_A13_PFC_A_061.d	GeminiC18 3x100 3(mm)
460-217659-1	MW-201	09/10/2020 18:36	1	2020.09.10_A13_PFC_A_062.d	GeminiC18 3x100 3(mm)
460-217659-2	MW-207	09/10/2020 18:45	1	2020.09.10_A13_PFC_A_063.d	GeminiC18 3x100 3(mm)
460-217659-3	MW-210	09/10/2020 18:54	1	2020.09.10_A13_PFC_A_064.d	GeminiC18 3x100 3(mm)
460-217659-4	MW-211	09/10/2020 19:04	1	2020.09.10_A13_PFC_A_065.d	GeminiC18 3x100 3(mm)
460-217659-5	MW-214	09/10/2020 19:13	1	2020.09.10_A13_PFC_A_066.d	GeminiC18 3x100 3(mm)
460-217659-6	MW-216	09/10/2020 19:23	1	2020.09.10_A13_PFC_A_067.d	GeminiC18 3x100 3(mm)
460-217659-7	MW-217	09/10/2020 19:32	1	2020.09.10_A13_PFC_A_068.d	GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 19:42	1		GeminiC18 3x100 3(mm)
CCV 320-411143/13		09/10/2020 19:51	1	2020.09.10_A13_PFC_A_070.d	GeminiC18 3x100 3(mm)
460-217659-8	FB	09/10/2020 20:00	1	2020.09.10_A13_PFC_A_071.d	GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 20:10	1		GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 20:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 20:29	1		GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 20:38	1		GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 20:47	1		GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 20:57	1		GeminiC18 3x100 3(mm)
ZZZZZ		09/10/2020 21:06	1		GeminiC18 3x100 3(mm)
CCV 320-411143/22		09/10/2020 21:16	1	2020.09.10_A13_PFC_A_079.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 460-217659-1

SDG No.:

Batch Number: 410906 Batch Start Date: 09/09/20 18:39 Batch Analyst: Pham, Vince

Batch Method: 3535 Batch End Date: 09/10/20 01:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_IDA 00243	LCPFC-IS 00481
MB 320-410906/1		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCS 320-410906/2		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCSD 320-410906/3		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
460-217659-D-1	MW-201	3535, 537 (modified)	T	291.85 g	26.14 g	265.7 mL	10.00 mL	500 uL	500 uL
460-217659-D-2	MW-207	3535, 537 (modified)	T	292.84 g	26.10 g	266.7 mL	10.00 mL	500 uL	500 uL
460-217659-D-3	MW-210	3535, 537 (modified)	T	275.14 g	26.36 g	248.8 mL	10.00 mL	500 uL	500 uL
460-217659-D-4	MW-211	3535, 537 (modified)	T	277.10 g	26.37 g	250.7 mL	10.00 mL	500 uL	500 uL
460-217659-D-5	MW-214	3535, 537 (modified)	T	268.10 g	26.93 g	241.2 mL	10.00 mL	500 uL	500 uL
460-217659-D-6	MW-216	3535, 537 (modified)	T	298.87 g	26.10 g	272.8 mL	10.00 mL	500 uL	500 uL
460-217659-D-7	MW-217	3535, 537 (modified)	T	293.18 g	27.13 g	266.1 mL	10.00 mL	500 uL	500 uL
460-217659-D-8	FB	3535, 537 (modified)	T	301.97 g	26.90 g	275.1 mL	10.00 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00328	AnalysisComment				
MB 320-410906/1		3535, 537 (modified)							
LCS 320-410906/2		3535, 537 (modified)		500 uL					
LCSD 320-410906/3		3535, 537 (modified)		500 uL					
460-217659-D-1	MW-201	3535, 537 (modified)	T						
460-217659-D-2	MW-207	3535, 537 (modified)	T		Clogged. Bottle + remaining sample = 71.38g				
460-217659-D-3	MW-210	3535, 537 (modified)	T						
460-217659-D-4	MW-211	3535, 537 (modified)	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 460-217659-1

SDG No.:

Batch Number: 410906 Batch Start Date: 09/09/20 18:39 Batch Analyst: Pham, Vince

Batch Method: 3535 Batch End Date: 09/10/20 01:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00328	AnalysisComment				
460-217659-D-5	MW-214	3535, 537 (modified)	T						
460-217659-D-6	MW-216	3535, 537 (modified)	T		Clogged. Bottle + remaining sample = 178.76g				
460-217659-D-7	MW-217	3535, 537 (modified)	T						
460-217659-D-8	FB	3535, 537 (modified)	T						

Batch Notes	
Balance ID	QA-081
Batch Comment	Eurofins label ID matches client label. VP 9/09/20. Centrifuge tube #18720040
First End time	09/10/2020 01:40
H2O ID	9/08/20
Hexane ID	2122754
Manifold ID	BE, BQ
Methanol ID	2138290
Sodium Hydroxide ID	2141971
Pipette/Syringe/Dispenser ID	R10872I
Analyst ID - Reagent Drop	VP
Analyst ID - IS Reagent Drop	VP
Analyst ID - IS Reagent Drop Witness	JER
Solvent Lot #	2140105
Solvent Name	0.3% NH4OH/MeOH
SPE Cartridge Lot ID	005730044a
SPE Cartridge Type	Oasis WAX 500mg
First Start time	09/09/2020 18:39

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record 454721

eurofins | Environment Testing TestAmerica

Address: 5 grossinger rd, Liberty, NY

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NY Cat B

TAL-8210

Client Contact	Project Manager: Fuad Dahan	Site Contact: Omayra Perez	Date:	COC No:
Company Name: SCS	Tel/Email:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 12a Maple ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Pine Brook, NJ	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 973 808 9050	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks ☒ 1 week 5 Standard ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Grossingers				Job / SDG No.: 217659
Site:				
PO # 9313 Phase 10				

5-Day RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	1,4-Dioxane (8270C SIM)	PFAS (537.1)	Sample Specific Notes:
MW-201	9/3/20	910	Grab	GW	5	N	N	X	X	1
MW-207		1110								2
MW-210		1035								3
MW-211		1400								4
MW-214		930								5
MW-216		1330								6
MW-217		1235	↓	↓	↓					7
FB	↓	1500		DI	4					8
TB	9/1/20			↓	2					9

460-217659 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: SCS	Date/Time: 9/4/20	Received by:	Company: ETA	Date/Time: 9/4/20 1400
Relinquished by:	Company: ETA	Date/Time: 9/4/20 1625	Received by:	Company: TAEL	Date/Time: 9/4/20 1625
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

NO COC Lot # 11-4.4

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 217659

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.4 ℃	4.4 ℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 9/4/2020

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Penas, Omayra	Carrier Tracking No(s):	COC No: 460-59373.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Omayra.Penas@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-217659-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/11/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Grossingers	Project #: 46021703			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes) SAC	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-201 (460-217659-1)	9/3/20	09:10 Eastern		Water			X	2	
MW-207 (460-217659-2)	9/3/20	11:10 Eastern		Water			X	2	
MW-210 (460-217659-3)	9/3/20	10:35 Eastern		Water			X	2	
MW-211 (460-217659-4)	9/3/20	14:00 Eastern		Water			X	2	
MW-214 (460-217659-5)	9/3/20	09:30 Eastern		Water			X	2	
MW-216 (460-217659-6)	9/3/20	13:30 Eastern		Water			X	2	
MW-217 (460-217659-7)	9/3/20	12:35 Eastern		Water			X	2	
FB (460-217659-8)	9/3/20	15:00 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/8/20 1900	ETA-Edi		09/09/20 10:40	ETA-SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 05: 1.0 CORR: 0.5

Ver: 01/16/2019

(6/6) - PINK AND GREY DISCOLORATION. 09/09/20

09/11/2020

Login Sample Receipt Checklist

Client: SESI Consulting Engineers

Job Number: 460-217659-1

Login Number: 217659
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SESI Consulting Engineers

Job Number: 460-217659-1

Login Number: 217659
List Number: 2
Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento
List Creation: 09/09/20 01:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	ob: 1.0c corr: 0.5c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2009793

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CC Quant - WG1348954-5 LCMS02 Run: 03/11/20 03:27:13 2763
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Laboratory Control S (WG1347919-2) Analyzed: 03/11/20 02:54 2902
LCS Duplicate (WG1347919-3) Analyzed: 03/11/20 03:10 2971
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Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2009793
Report Date: 03/18/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2009793-01	MW-213	WATER	LIBERTY, NY	03/04/20 14:30	03/04/20
L2009793-02	MW-214	WATER	LIBERTY, NY	03/04/20 10:30	03/04/20
L2009793-03	FB	WATER	LIBERTY, NY	03/04/20 15:00	03/04/20
L2009793-04	TB	WATER	LIBERTY, NY	03/03/20 00:00	03/04/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

March 18, 2020: This final report includes the results of all requested analyses.

March 10, 2020: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2009793-01: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Report Date: 03/18/20

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	
	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L2009793

Account Name : Soils Engineering Services, Inc.
Project Number : 9313
Project Name : GROSSINGERS

Received : 04-MAR-2020
Reviewer : Brennan Williams

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.5	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between sample labels & COC?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 18 2020, 02:06 pm

Login Number: L2009793
Account: SESI Soils Engineering Services, Inc.Project: 9313
Received: 04MAR20 Due Date: 18MAR20

Sample #	Client ID	Mat	PR	Collected
L2009793-01	MW-213	1	S0	04MAR20 14:30
8260: report 15 TICs 8270: report 15 TICs ASP-B Package Due Date: 03/18/20				
A2-NY-537-ISOTOPE,ASP-B,NYTCL-8260				
L2009793-02	MW-214	1	S0	04MAR20 10:30
8260: report 15 TICs 8270: report 15 TICs Package Due Date: 03/18/20				
A2-NY-537-ISOTOPE,NYTCL-8260				
L2009793-03	FB	1	S0	04MAR20 15:00
8260: report 15 TICs 8270: report 15 TICs Package Due Date: 03/18/20				
A2-NY-537-ISOTOPE				
L2009793-04	TB	1	S0	03MAR20 00:00
8260: report 15 TICs 8270: report 15 TICs Package Due Date: 03/18/20				
NYTCL-8260				

Logged By: Michelle Callahan

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 1 of 1

Date Rec'd in Lab: 3/4/20

ALPHA Job #: L2009793

Client Information
Client: SESI
Address: 124 Maple Ave
Pine Brook, NJ
Phone: 973808 9050
Fax:
Email: FD@sesi.org

Project Information
Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9313
(Use Project name as Project #)
Project Manager: Fred Dahan
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): ☐
Due Date: 1 week
# of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other NY Cat B

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge
NY Cat B

Billing Information
☒ Same as Client Info
PO # 9313 phase 10

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOA+15	PFAS, 537	Sample Specific Comments	Total Bottle
09793-01	MW-213	3/4/20	1430	GW	JCS	X	X		
-02	MW-214	↓	1030	↓	↓	X	X		
-03	FB	↓	1500	DI	↓		X		
-04	TB	3/3/20		↓		X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	P
Preservative	B	A

Relinquished By:	Date/Time	Received By:	Date/Time
	3/4/20 1650		3/4/20 1650
	3/4/20 1650		3/4/20 1650
	3/4/20 2100		3/4/20 2100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Soils Engineering Services, Inc.
Project Name: GROSSINGERS

Lab Number: L2009793
Project Number: 9313
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-213 (L2009793-01)	102	95	93	96	0
MW-214 (L2009793-02)	99	96	93	96	0
TB (L2009793-04)	124	106	102	97	0
WG1348135-3LCS	122	103	97	93	0
WG1348135-4LCSD	123	104	99	95	0
WG1348135-5BLANK	122	105	100	96	0
WG1348564-3LCS	97	97	95	97	0
WG1348564-4LCSD	99	97	94	98	0
WG1348564-5BLANK	98	96	94	93	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Matrix	: WATER		
LCS Sample ID	: WG1348135-3	**Analysis Date** : 03/06/20 09:46	**File ID** : V22200306A01
LCSD Sample ID	: WG1348135-4	**Analysis Date** : 03/06/20 10:11	**File ID** : V22200306A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.7	97	10	9.4	94	3	70-130	20
1,1-Dichloroethane	10	10	100	10	10	100	0	70-130	20
Chloroform	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	10	11	110	10	11	110	0	63-132	20
1,2-Dichloropropane	10	8.6	86	10	8.7	87	1	70-130	20
Dibromochloromethane	10	10	100	10	10	100	0	63-130	20
1,1,2-Trichloroethane	10	9.9	99	10	9.6	96	3	70-130	20
Tetrachloroethene	10	9.8	98	10	9.9	99	1	70-130	20
Chlorobenzene	10	10	100	10	9.8	98	2	75-130	20
Trichlorofluoromethane	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	10	9.2	92	10	9.4	94	2	70-130	20
1,1,1-Trichloroethane	10	11	110	10	11	110	0	67-130	20
Bromodichloromethane	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	10	11	110	10	12	120	9	70-130	20
cis-1,3-Dichloropropene	10	9.8	98	10	10	100	2	70-130	20
1,1-Dichloropropene	10	9.7	97	10	10	100	3	70-130	20
Bromoform	10	9.6	96	10	10	100	4	54-136	20
1,1,2,2-Tetrachloroethane	10	9.1	91	10	9.6	96	5	67-130	20
Benzene	10	9.6	96	10	9.8	98	2	70-130	20
Toluene	10	10	100	10	10	100	0	70-130	20
Ethylbenzene	10	11	110	10	10	100	10	70-130	20
Chloromethane	10	10	100	10	9.5	95	5	64-130	20
Bromomethane	10	3.1	31 Q	10	4.4	44	35 Q	39-139	20
Vinyl chloride	10	8.8	88	10	9.0	90	2	55-140	20
Chloroethane	10	7.8	78	10	7.7	77	1	55-138	20
1,1-Dichloroethene	10	9.6	96	10	9.8	98	2	61-145	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Matrix	: WATER		
LCS Sample ID	: WG1348135-3	**Analysis Date** : 03/06/20 09:46	**File ID** : V22200306A01
LCSD Sample ID	: WG1348135-4	**Analysis Date** : 03/06/20 10:11	**File ID** : V22200306A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	10	9.6	96	10	9.7	97	1	70-130	20
Trichloroethene	10	9.1	91	10	9.5	95	4	70-130	20
1,2-Dichlorobenzene	10	9.7	97	10	9.7	97	0	70-130	20
1,3-Dichlorobenzene	10	9.8	98	10	9.9	99	1	70-130	20
1,4-Dichlorobenzene	10	9.8	98	10	10	100	2	70-130	20
Methyl tert butyl ether	10	11	110	10	11	110	0	63-130	20
p/m-Xylene	20	20	100	20	20	100	0	70-130	20
o-Xylene	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	10	9.7	97	10	9.7	97	0	70-130	20
Dibromomethane	10	9.5	95	10	9.4	94	1	70-130	20
1,2,3-Trichloropropane	10	9.9	99	10	10	100	1	64-130	20
Acrylonitrile	10	9.1	91	10	8.7	87	4	70-130	20
Styrene	20	20	100	20	20	100	0	70-130	20
Dichlorodifluoromethane	10	9.4	94	10	9.6	96	2	36-147	20
Acetone	10	8.3	83	10	6.9	69	18	58-148	20
Carbon disulfide	10	11	110	10	10	100	10	51-130	20
2-Butanone	10	7.8	78	10	7.8	78	0	63-138	20
Vinyl acetate	10	9.9	99	10	12	120	19	70-130	20
4-Methyl-2-pentanone	10	9.7	97	10	9.9	99	2	59-130	20
2-Hexanone	10	9.0	90	10	9.0	90	0	57-130	20
Bromochloromethane	10	9.7	97	10	9.7	97	0	70-130	20
2,2-Dichloropropane	10	12	120	10	16	160 Q	29 Q	63-133	20
1,2-Dibromoethane	10	9.6	96	10	9.4	94	2	70-130	20
1,3-Dichloropropane	10	10	100	10	10	100	0	70-130	20
1,1,1,2-Tetrachloroethane	10	10	100	10	10	100	0	64-130	20
Bromobenzene	10	9.6	96	10	9.9	99	3	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Matrix	: WATER		
LCS Sample ID	: WG1348135-3	**Analysis Date** : 03/06/20 09:46	**File ID** : V22200306A01
LCSD Sample ID	: WG1348135-4	**Analysis Date** : 03/06/20 10:11	**File ID** : V22200306A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
n-Butylbenzene	10	10	100	10	10	100	0	53-136	20
sec-Butylbenzene	10	8.9	89	10	10	100	12	70-130	20
tert-Butylbenzene	10	9.6	96	10	9.7	97	1	70-130	20
o-Chlorotoluene	10	10	100	10	11	110	10	70-130	20
p-Chlorotoluene	10	10	100	10	10	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.3	83	10	8.3	83	0	41-144	20
Hexachlorobutadiene	10	11	110	10	12	120	9	63-130	20
Isopropylbenzene	10	9.8	98	10	9.9	99	1	70-130	20
p-Isopropyltoluene	10	9.3	93	10	9.5	95	2	70-130	20
Naphthalene	10	8.7	87	10	9.1	91	4	70-130	20
n-Propylbenzene	10	9.8	98	10	10	100	2	69-130	20
1,2,3-Trichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,2,4-Trichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,3,5-Trimethylbenzene	10	10	100	10	10	100	0	64-130	20
1,2,4-Trimethylbenzene	10	10	100	10	10	100	0	70-130	20
1,4-Dioxane	500	500	100	500	420	84	17	56-162	20
p-Diethylbenzene	10	9.7	97	10	10	100	3	70-130	20
p-Ethyltoluene	10	9.9	99	10	10	100	1	70-130	20
1,2,4,5-Tetramethylbenzene	10	10	100	10	10	100	0	70-130	20
Ethyl ether	10	9.4	94	10	9.4	94	0	59-134	20
trans-1,4-Dichloro-2-butene	10	9.1	91	10	10	100	9	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Matrix	: WATER		
LCS Sample ID	: WG1348564-3	**Analysis Date** : 03/07/20 09:31	**File ID** : V01200307A01
LCSD Sample ID	: WG1348564-4	**Analysis Date** : 03/07/20 09:55	**File ID** : V01200307A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	12	120	10	12	120	0	70-130	20
1,1-Dichloroethane	10	11	110	10	12	120	9	70-130	20
Chloroform	10	12	120	10	12	120	0	70-130	20
Carbon tetrachloride	10	10	100	10	11	110	10	63-132	20
1,2-Dichloropropane	10	11	110	10	12	120	9	70-130	20
Dibromochloromethane	10	10	100	10	11	110	10	63-130	20
1,1,2-Trichloroethane	10	11	110	10	11	110	0	70-130	20
Tetrachloroethene	10	10	100	10	11	110	10	70-130	20
Chlorobenzene	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	10	11	110	10	12	120	9	62-150	20
1,2-Dichloroethane	10	12	120	10	12	120	0	70-130	20
1,1,1-Trichloroethane	10	11	110	10	11	110	0	67-130	20
Bromodichloromethane	10	11	110	10	11	110	0	67-130	20
trans-1,3-Dichloropropene	10	11	110	10	11	110	0	70-130	20
cis-1,3-Dichloropropene	10	11	110	10	11	110	0	70-130	20
1,1-Dichloropropene	10	11	110	10	12	120	9	70-130	20
Bromoform	10	9.8	98	10	10	100	2	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	11	110	10	67-130	20
Benzene	10	11	110	10	11	110	0	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	12	120	10	12	120	0	64-130	20
Bromomethane	10	9.6	96	10	9.4	94	2	39-139	20
Vinyl chloride	10	10	100	10	11	110	10	55-140	20
Chloroethane	10	12	120	10	12	120	0	55-138	20
1,1-Dichloroethene	10	11	110	10	12	120	9	61-145	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Soils Engineering Services, Inc. **Lab Number** : L2009793
Project Name : GROSSINGERS **Project Number** : 9313
Matrix : WATER
LCS Sample ID : WG1348564-3 **Analysis Date** : 03/07/20 09:31 **File ID** : V01200307A01
LCSD Sample ID : WG1348564-4 **Analysis Date** : 03/07/20 09:55 **File ID** : V01200307A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	10	11	110	10	12	120	9	70-130	20
Trichloroethene	10	11	110	10	11	110	0	70-130	20
1,2-Dichlorobenzene	10	11	110	10	11	110	0	70-130	20
1,3-Dichlorobenzene	10	11	110	10	11	110	0	70-130	20
1,4-Dichlorobenzene	10	11	110	10	11	110	0	70-130	20
Methyl tert butyl ether	10	11	110	10	12	120	9	63-130	20
p/m-Xylene	20	22	110	20	23	115	4	70-130	20
o-Xylene	20	22	110	20	23	115	4	70-130	20
cis-1,2-Dichloroethene	10	12	120	10	12	120	0	70-130	20
Dibromomethane	10	11	110	10	11	110	0	70-130	20
1,2,3-Trichloropropane	10	10	100	10	10	100	0	64-130	20
Acrylonitrile	10	12	120	10	13	130	8	70-130	20
Styrene	20	22	110	20	22	110	0	70-130	20
Dichlorodifluoromethane	10	9.3	93	10	9.7	97	4	36-147	20
Acetone	10	15	150 Q	10	12	120	22 Q	58-148	20
Carbon disulfide	10	11	110	10	11	110	0	51-130	20
2-Butanone	10	12	120	10	12	120	0	63-138	20
Vinyl acetate	10	12	120	10	12	120	0	70-130	20
4-Methyl-2-pentanone	10	11	110	10	12	120	9	59-130	20
2-Hexanone	10	9.8	98	10	10	100	2	57-130	20
Bromochloromethane	10	12	120	10	12	120	0	70-130	20
2,2-Dichloropropane	10	12	120	10	13	130	8	63-133	20
1,2-Dibromoethane	10	11	110	10	11	110	0	70-130	20
1,3-Dichloropropane	10	11	110	10	11	110	0	70-130	20
1,1,1,2-Tetrachloroethane	10	10	100	10	11	110	10	64-130	20
Bromobenzene	10	11	110	10	11	110	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Soils Engineering Services, Inc. **Lab Number** : L2009793
Project Name : GROSSINGERS **Project Number** : 9313
Matrix : WATER
LCS Sample ID : WG1348564-3 **Analysis Date** : 03/07/20 09:31 **File ID** : V01200307A01
LCSD Sample ID : WG1348564-4 **Analysis Date** : 03/07/20 09:55 **File ID** : V01200307A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
n-Butylbenzene	10	11	110	10	12	120	9	53-136	20
sec-Butylbenzene	10	11	110	10	11	110	0	70-130	20
tert-Butylbenzene	10	11	110	10	11	110	0	70-130	20
o-Chlorotoluene	10	11	110	10	11	110	0	70-130	20
p-Chlorotoluene	10	11	110	10	11	110	0	70-130	20
1,2-Dibromo-3-chloropropane	10	9.2	92	10	10	100	8	41-144	20
Hexachlorobutadiene	10	10	100	10	11	110	10	63-130	20
Isopropylbenzene	10	11	110	10	11	110	0	70-130	20
p-Isopropyltoluene	10	11	110	10	11	110	0	70-130	20
Naphthalene	10	8.8	88	10	9.8	98	11	70-130	20
n-Propylbenzene	10	11	110	10	11	110	0	69-130	20
1,2,3-Trichlorobenzene	10	9.0	90	10	10	100	11	70-130	20
1,2,4-Trichlorobenzene	10	9.8	98	10	10	100	2	70-130	20
1,3,5-Trimethylbenzene	10	11	110	10	11	110	0	64-130	20
1,2,4-Trimethylbenzene	10	11	110	10	11	110	0	70-130	20
1,4-Dioxane	500	680	136	500	720	144	6	56-162	20
p-Diethylbenzene	10	11	110	10	11	110	0	70-130	20
p-Ethyltoluene	10	11	110	10	11	110	0	70-130	20
1,2,4,5-Tetramethylbenzene	10	10	100	10	11	110	10	70-130	20
Ethyl ether	10	11	110	10	12	120	9	59-134	20
trans-1,4-Dichloro-2-butene	10	11	110	10	11	110	0	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab Sample ID	: WG1348135-5	**Lab File ID**	: V22200306A05
Instrument ID	: VOA122		
Matrix	: WATER	**Analysis Date**	: 03/06/20 11:24

Client Sample No.	Lab Sample ID	Analysis Date
WG1348135-3LCS	WG1348135-3	03/06/20 09:46
WG1348135-4LCSD	WG1348135-4	03/06/20 10:11
TB	L2009793-04	03/06/20 15:30

Method Blank Summary
Form 4
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab Sample ID	: WG1348564-5	**Lab File ID**	: V01200307A06
Instrument ID	: VOA101		
Matrix	: WATER	**Analysis Date**	: 03/07/20 11:30

Client Sample No.	Lab Sample ID	Analysis Date
WG1348564-3LCS	WG1348564-3	03/07/20 09:31
WG1348564-4LCSD	WG1348564-4	03/07/20 09:55
MW-213	L2009793-01	03/07/20 13:29
MW-214	L2009793-02	03/07/20 13:53

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: VOA122	**Analysis Date**	: 12/19/19 14:35
Tune Standard	: WG1323153-1	**Tune File ID**	: V22191219NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1.2)1
174	Greater than 50.0 of mass 95	83.4
175	5.0 - 9.0% of mass 174	6.1 (7.3)1
176	95.0 - 101% of mass 174	81.3 (97.5)1
177	5.0 - 9.0% of mass 176	5.4 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STDL0.2PPB	R1267884-1	V22191219N03	12/19/19 15:43
STDL0.5PPB	R1267884-2	V22191219N05	12/19/19 16:33
STDL2PPB	R1267884-3	V22191219N07	12/19/19 17:23
STDL10PPB	R1267884-5	V22191219N08	12/19/19 17:48
STDL30PPB	R1267884-4	V22191219N09	12/19/19 18:12
STDL80PPB	R1267884-7	V22191219N10	12/19/19 18:37
STDL120PPB	R1267884-6	V22191219N11	12/19/19 19:03
STDL200PPB	R1267884-8	V22191219N12	12/19/19 19:28
ICV QUANT REPORT	R1267884-9	V22191219N18	12/19/19 21:58

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: VOA122	**Analysis Date**	: 03/06/20 09:33
Tune Standard	: WG1348135-1	**Tune File ID**	: V22200306ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0 of mass 95	88.1
175	5.0 - 9.0% of mass 174	7.2 (8.2)1
176	95.0 - 101% of mass 174	86.1 (97.8)1
177	5.0 - 9.0% of mass 176	5.4 (6.3)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1348135-2CCAL	WG1348135-2	V22200306A01	03/06/20 09:46
WG1348135-3LCS	WG1348135-3	V22200306A01	03/06/20 09:46
WG1348135-4LCSD	WG1348135-4	V22200306A02	03/06/20 10:11
WG1348135-5BLANK	WG1348135-5	V22200306A05	03/06/20 11:24
TB	L2009793-04	V22200306A15	03/06/20 15:30

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: VOA101	**Analysis Date**	: 02/19/20 13:23
Tune Standard	: WG1342454-1	**Tune File ID**	: V01200219ABF6_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0 of mass 95	69.9
175	5.0 - 9.0% of mass 174	5.1 (7.3)1
176	95.0 - 101% of mass 174	68.7 (98.3)1
177	5.0 - 9.0% of mass 176	4.4 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.5PPB	R1286244-1	V01200219A05	02/19/20 15:13
STD2.0PPB	R1286244-3	V01200219A07	02/19/20 16:00
STD10PPB	R1286244-2	V01200219A08	02/19/20 16:24
STD30PPB	R1286244-4	V01200219A09	02/19/20 16:48
STD80PPB	R1286244-6	V01200219A10	02/19/20 17:12
STD120PPB	R1286244-5	V01200219A11	02/19/20 17:35
STD200PPB	R1286244-7	V01200219A12	02/19/20 17:59
STD0.15PPB	R1286244-8	V01200219A18	02/19/20 20:21
ICV Quant Report	R1286244-9	V01200219A20	02/19/20 21:09

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: VOA101	**Analysis Date**	: 03/07/20 09:10
Tune Standard	: WG1348564-1	**Tune File ID**	: V01200307ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.7
75	30.0 - 60.0% of mass 95	46.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (.4)1
174	Greater than 50.0 of mass 95	69.3
175	5.0 - 9.0% of mass 174	5.4 (7.8)1
176	95.0 - 101% of mass 174	66.8 (96.3)1
177	5.0 - 9.0% of mass 176	4.3 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1348564-2CCAL	WG1348564-2	V01200307A01	03/07/20 09:31
WG1348564-3LCS	WG1348564-3	V01200307A01	03/07/20 09:31
WG1348564-4LCSD	WG1348564-4	V01200307A02	03/07/20 09:55
WG1348564-5BLANK	WG1348564-5	V01200307A06	03/07/20 11:30
MW-213	L2009793-01	V01200307A11	03/07/20 13:29
MW-214	L2009793-02	V01200307A12	03/07/20 13:53

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: VOA122	**Analysis Date**	: 03/06/20 09:46
Sample No	: WG1348135-2	**Lab File ID**	: V22200306A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1348135-2	254411	5.83	187639	9.35	100182	12.10
Upper Limit	508822	6.33	375278	9.85	200364	12.60
Lower Limit	127206	5.33	93820	8.85	50091	11.60
Sample ID						
WG1348135-3 LCS	254411	5.83	187639	9.35	100182	12.10
WG1348135-4 LCSD	257345	5.83	195420	9.35	100925	12.11
WG1348135-5 BLANK	260517	5.83	191517	9.35	97483	12.11
TB	248267	5.83	183847	9.35	90923	12.11

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: VOA101	**Analysis Date**	: 03/07/20 09:31
Sample No	: WG1348564-2	**Lab File ID**	: V01200307A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1348564-2	235149	6.63	168234	10.52	84540	13.32
Upper Limit	470298	7.13	336468	11.02	169080	13.82
Lower Limit	117575	6.13	84117	10.02	42270	12.82
Sample ID						
WG1348564-3 LCS	235149	6.63	168234	10.52	84540	13.32
WG1348564-4 LCSD	223803	6.63	161802	10.52	83096	13.32
WG1348564-5 BLANK	209557	6.63	151704	10.53	77414	13.32
MW-213	202811	6.63	149497	10.52	76786	13.32
MW-214	201389	6.63	148843	10.52	76874	13.32

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 06/19/18
Created By: Jason Hebert
File: PM5049-1
Page: 1

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Tertiary-Amyl Methyl Ether	994-05-8	2	0.278	ug/l	66-130	20	66-130	20	20			
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10	0.148	ug/l	70-130	20	70-130	20	20			
Methyl cyclohexane	108-87-2	10	0.396	ug/l	70-130	20	70-130	20	20			
1,4-Diethylbenzene	105-05-5	2	0.392	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.340	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.128	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	2	0.176	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	100	35.1	ug/kg	65-136	30	65-136	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	4	0.693	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	100	6.40	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	100	8.80	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	5000	1755	ug/kg	65-136	30	65-136	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	200	34.7	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A11	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	71	2.5	0.70	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A11	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	74	5.0	1.0	
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A11	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A11	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Tentatively Identified Compounds
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A11	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	:	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

Number TICS found: 2 **Concentration Units: ug/L**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
000075-43-4	Fluorodichloromethane	2.82	16.6	NJ
	Total TIC Compounds		16.6J	J

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	10	2.5	0.70	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	27	5.0	1.0	
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Tentatively Identified Compounds
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/07/20 13:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: AJK
Lab File ID	: V01200307A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	:	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

Number TICS found: 2 **Concentration Units: ug/L**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
000075-43-4	Fluorodichloromethane	2.81	5.11	NJ
	Total TIC Compounds		5.11J	J

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-04	**Date Collected**	: 03/03/20 00:00
Client ID	: TB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/06/20 15:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V22200306A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-04	**Date Collected**	: 03/03/20 00:00
Client ID	: TB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/06/20 15:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V22200306A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-04	**Date Collected**	: 03/03/20 00:00
Client ID	: TB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/06/20 15:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V22200306A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-04	**Date Collected**	: 03/03/20 00:00
Client ID	: TB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/06/20 15:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V22200306A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Tentatively Identified Compounds
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-04	**Date Collected**	: 03/03/20 00:00
Client ID	: TB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/06/20 15:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V22200306A15	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	:	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

Number TICS found: 0 **Concentration Units: ug/L**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	NO TENTATIVELY IDENTIFIED COMPOUNDS			

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348135-5	**Date Collected**	: NA
Client ID	: WG1348135-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/20 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V22200306A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348135-5	**Date Collected**	: NA
Client ID	: WG1348135-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/20 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V22200306A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348135-5	**Date Collected**	: NA
Client ID	: WG1348135-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/20 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V22200306A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348135-5	**Date Collected**	: NA
Client ID	: WG1348135-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/20 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V22200306A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Tentatively Identified Compounds
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348135-5	**Date Collected**	: NA
Client ID	: WG1348135-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/06/20 11:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V22200306A05	**Instrument ID**	: VOA122
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	:	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

Number TICS found: 0 **Concentration Units: ug/L**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	NO TENTATIVELY IDENTIFIED COMPOUNDS			

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348564-5	**Date Collected**	: NA
Client ID	: WG1348564-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/20 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V01200307A06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348564-5	**Date Collected**	: NA
Client ID	: WG1348564-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/20 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V01200307A06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348564-5	**Date Collected**	: NA
Client ID	: WG1348564-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/20 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V01200307A06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348564-5	**Date Collected**	: NA
Client ID	: WG1348564-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/20 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V01200307A06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Tentatively Identified Compounds
Form 1
Volatile Organics by GC/MS

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1348564-5	**Date Collected**	: NA
Client ID	: WG1348564-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/07/20 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: MKS
Lab File ID	: V01200307A06	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	:	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

Number TICS found: 0 **Concentration Units: ug/L**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	NO TENTATIVELY IDENTIFIED COMPOUNDS			

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:MKS
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 07 14:50:56 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.827	96	248267	10.000	ug/L	0.00
Standard Area 1 = 254411			Recovery = 97.59%			
62) Chlorobenzene-d5	9.353	117	183847	10.000	ug/L	0.00
Standard Area 1 = 187639			Recovery = 97.98%			
83) 1,4-Dichlorobenzene-d4	12.107	152	90923	10.000	ug/L	0.00
Standard Area 1 = 100182			Recovery = 90.76%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.018	113	69357	9.672	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.72%			
46) 1,2-Dichloroethane-d4	5.541	65	102755	12.401	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.01%			
63) Toluene-d8	7.519	98	252440	10.628	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.28%			
87) 4-Bromofluorobenzene	10.874	95	90795	10.170	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.076	94	93	Below Cal		94
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.833	76	123	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
27) Acrylonitrile	0.000		0	N.D.		
29) Vinyl acetate	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
31) 2,2-Dichloropropane	0.000		0	N.D.		
32) Bromochloromethane	0.000		0	N.D.		
34) Chloroform	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:MKS
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 07 14:50:56 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon tetrachloride	0.000		0		N.D.	
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
42) 1,1-Dichloropropene	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
53) Dibromomethane	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
73) 1,3-Dichloropropane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.345	91	516		N.D.	
79) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
88) Bromobenzene	0.000		0		N.D.	
89) n-Propylbenzene	10.874	91	509		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
92) 4-Ethyltoluene	0.000		0		N.D.	
93) 2-Chlorotoluene	0.000		0		N.D.	
94) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
95) 1,2,3-Trichloropropane	0.000		0		N.D.	
96) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
97) 4-Chlorotoluene	0.000		0		N.D.	
98) tert-Butylbenzene	0.000		0		N.D.	

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:MKS
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 07 14:50:56 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
102)	sec-Butylbenzene	0.000		0		N.D.	
103)	p-Isopropyltoluene	0.000		0		N.D.	
104)	1,3-Dichlorobenzene	12.114	146	161		N.D.	
105)	1,4-Dichlorobenzene	12.114	146	161		N.D.	
106)	p-Diethylbenzene	0.000		0		N.D.	
107)	n-Butylbenzene	0.000		0		N.D.	
108)	1,2-Dichlorobenzene	0.000		0		N.D.	
109)	1,2,4,5-Tetramethylben...	0.000		0		N.D.	
110)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
112)	Hexachlorobutadiene	0.000		0		N.D.	
113)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
114)	Naphthalene	14.265	128	241		N.D.	
115)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

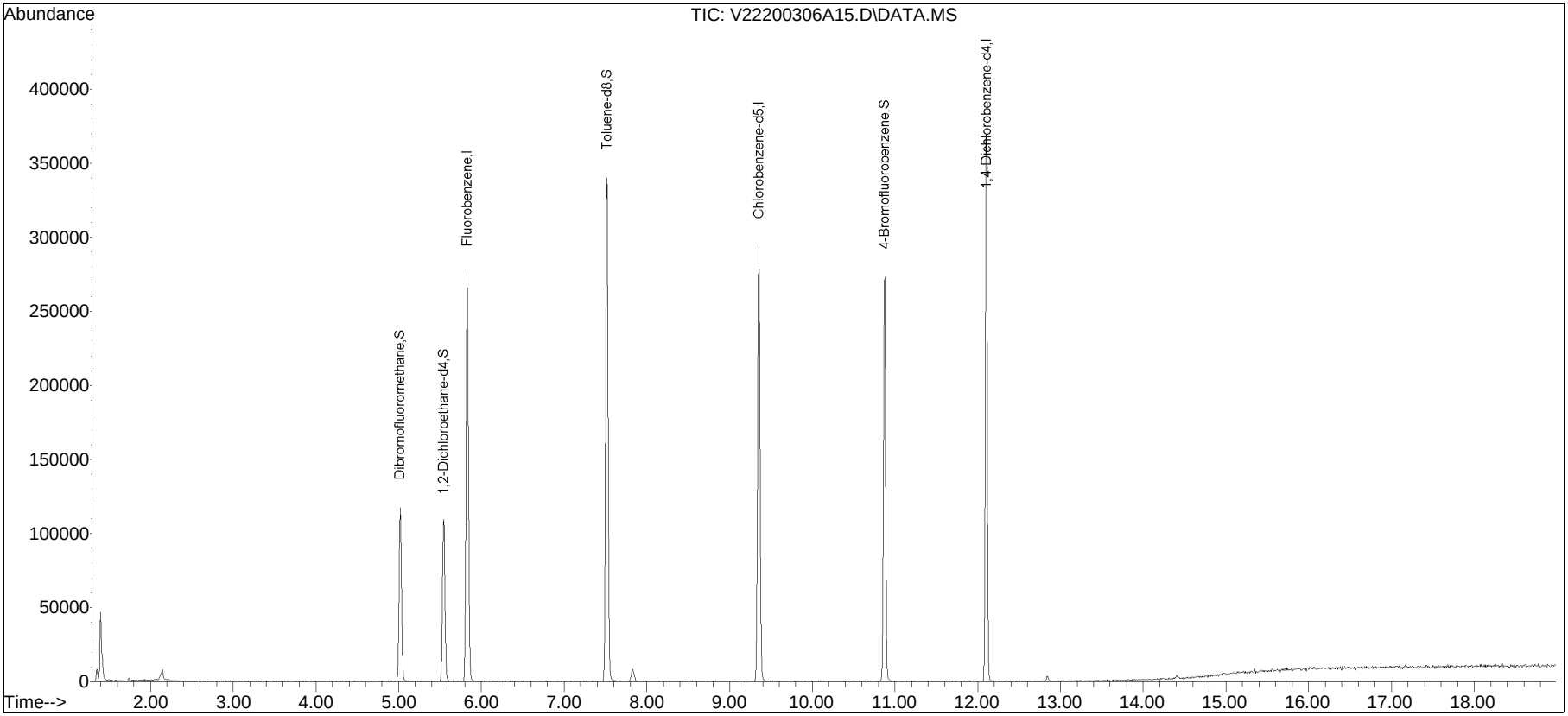
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:MKS
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 07 14:50:56 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox00306A\V22200306A01.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2020\2Q	Method	: V122_191219N_8260.m
Data File	: V22200306A15.D	Operator	: VOA122:MKS
Date Inj'd	: 3/6/2020 3:30 pm	Instrument	: VOA122
Sample	: l2009793-04,31,10,10,,a	Quant Date	: 3/7/2020 1:50 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:PD
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: V22200306A15.D\DATA.MS

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.018	472	478	491	rBB	117463	241060	34.90%	7.041%
2	5.549	538	546	556	rBB	109826	261841	37.90%	7.648%
3	5.827	571	577	589	rBV	274861	552407	79.97%	16.136%
4	7.519	764	772	789	rBB	340310	690803	100.00%	20.179%
5	7.831	803	812	821	rBB	8145	21250	3.08%	0.621%
6	9.353	999	1007	1020	rBB	293664	595460	86.20%	17.394%
7	10.874	1192	1200	1212	rBB	273276	479884	69.47%	14.018%
8	12.100	1352	1358	1367	rBV	369432	580738	84.07%	16.964%

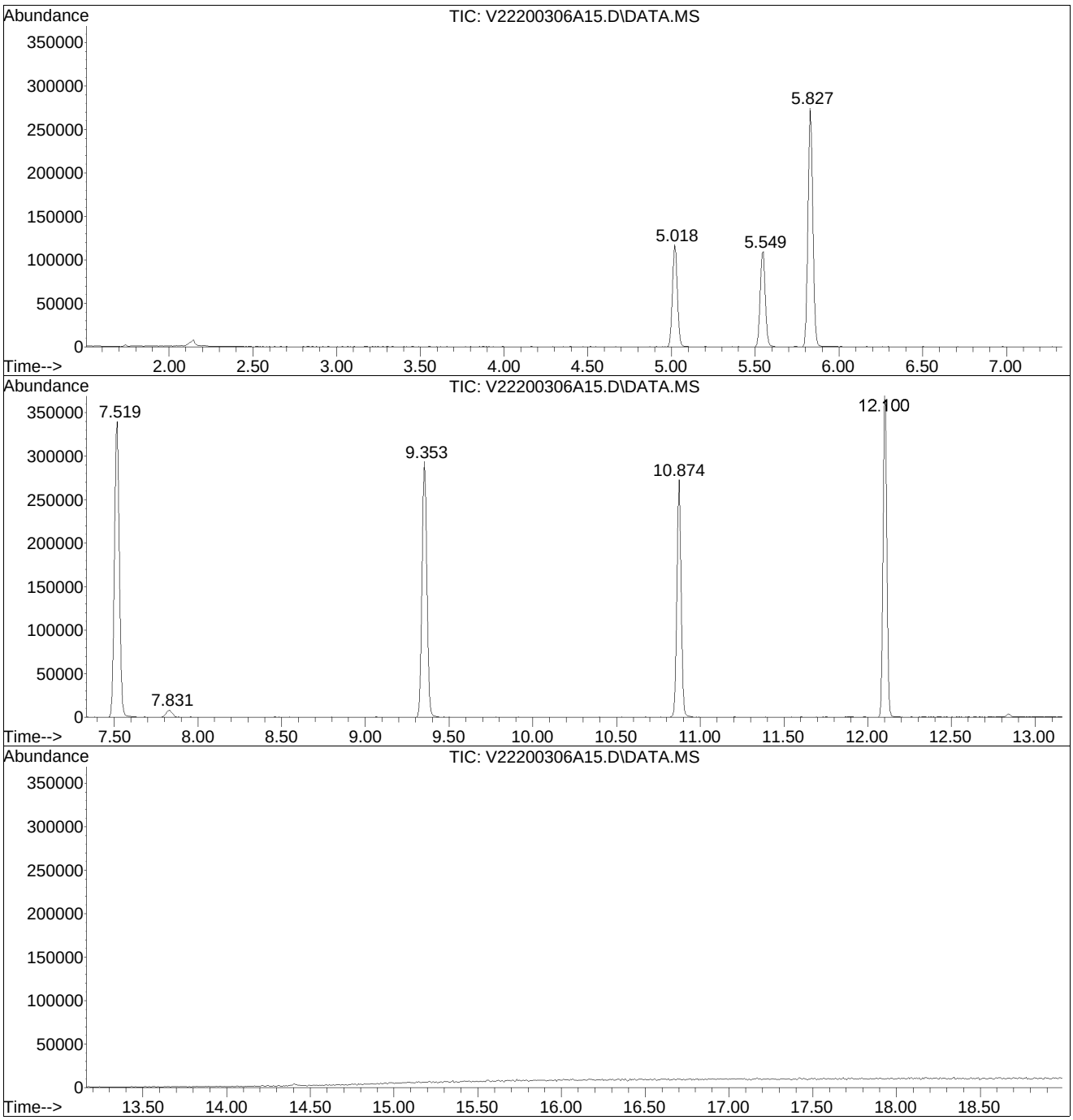
Sum of corrected areas: 3423443

LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:PD
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:PD
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A15.D
Acq On : 06 Mar 2020 03:30 pm
Operator : VOA122:PD
Sample : l2009793-04,31,10,10,,a
Misc : WG1348135,ICAL16379
ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 08 18:15:10 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	202811	10.000	ug/L	0.00
Standard Area 1 = 235149			Recovery = 86.25%			
59) Chlorobenzene-d5	10.524	117	149497	10.000	ug/L	0.00
Standard Area 1 = 168234			Recovery = 88.86%			
79) 1,4-Dichlorobenzene-d4	13.324	152	76786	10.000	ug/L	0.00
Standard Area 1 = 84540			Recovery = 90.83%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	50082	9.586	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.86%			
43) 1,2-Dichloroethane-d4	6.323	65	57263	10.226	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.26%			
60) Toluene-d8	8.500	98	203694	9.538	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.38%			
83) 4-Bromofluorobenzene	12.030	95	77261	9.334	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.822	85	269847	73.877	ug/L	99
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.471	94	157	0.075	ug/L #	66
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	2.755	101	430630	71.460	ug/L	100
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.322	76	478	N.D.		
15) Methylene chloride	3.884	84	1314	0.342	ug/L	74
17) Acetone	3.939	43	735	Below Cal	#	42
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.	d	
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	5.554	83	577	0.079	ug/L #	40

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 08 18:15:10 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	5.783	97	56		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	6.170	78	526		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	8.566	92	262		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	10.552	112	584		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	12.789	119	109		N.D.	

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 08 18:15:10 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 1,2,4-Trimethylbenzene	0.000		0	N.D. d		
98) sec-Butylbenzene	12.980	105	860	N.D.		
99) p-Isopropyltoluene	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D. d		
101) 1,4-Dichlorobenzene	13.340	146	328	N.D.		
102) p-Diethylbenzene	0.000		0	N.D.		
103) n-Butylbenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	13.820	146	104	N.D.		
105) 1,2,4,5-Tetramethylben...	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108) Hexachlorobutadiene	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
110) Naphthalene	15.741	128	1062	0.139	ug/L	100
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

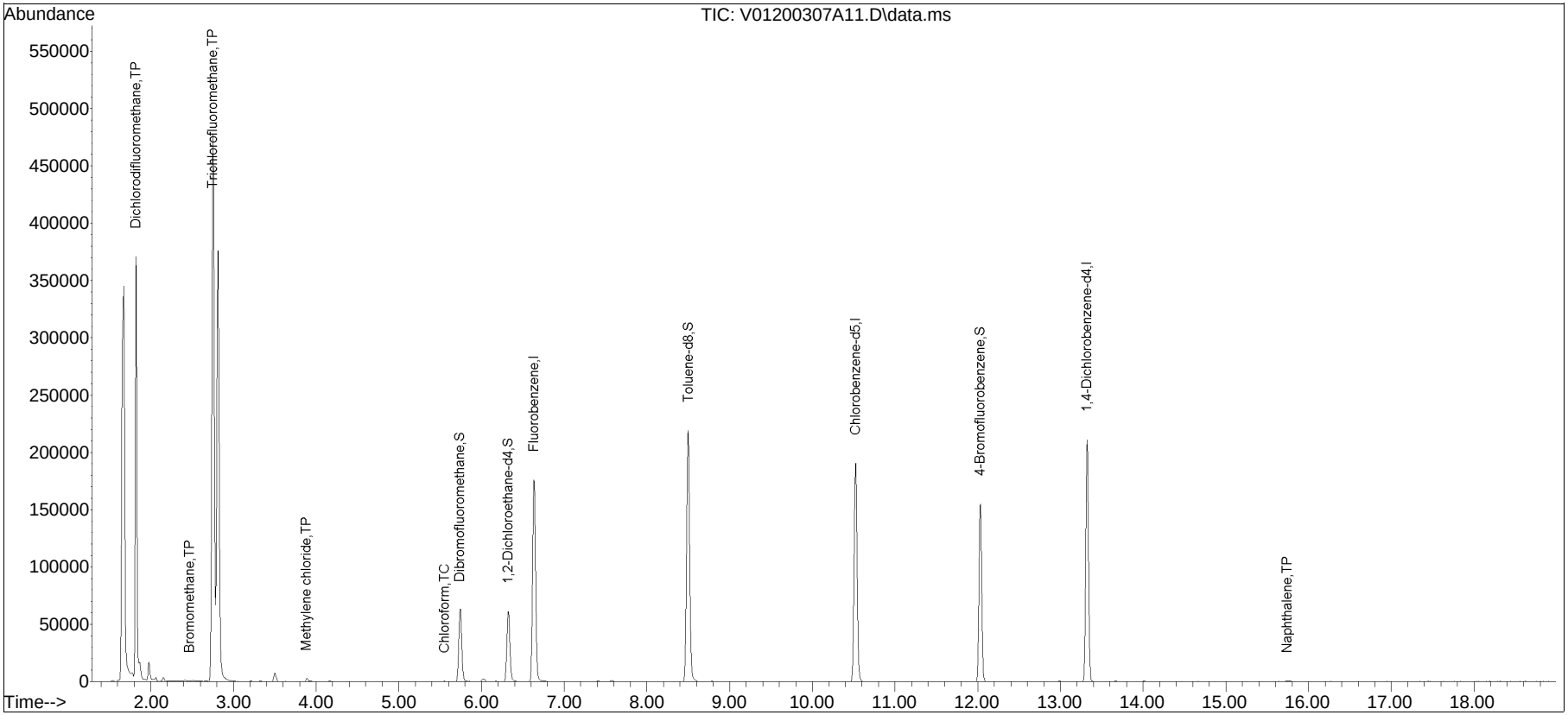
(#) = qualifier out of range (m) = manual integration (+) = signals summed

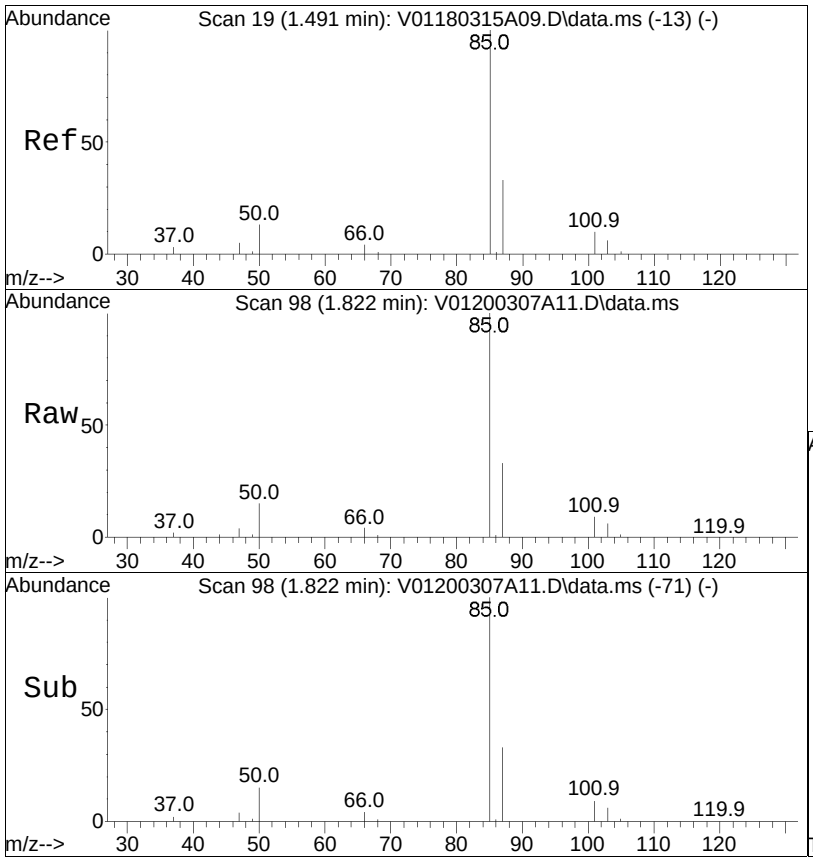
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 08 18:15:10 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox00307A\V01200307A01.D•

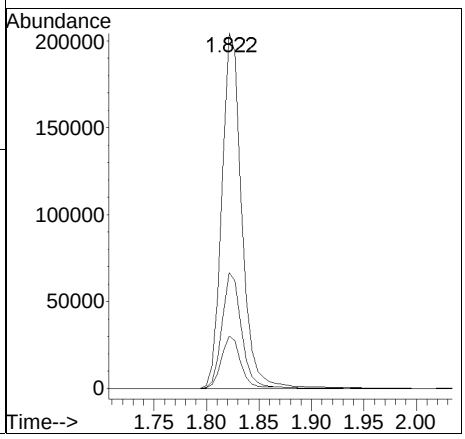


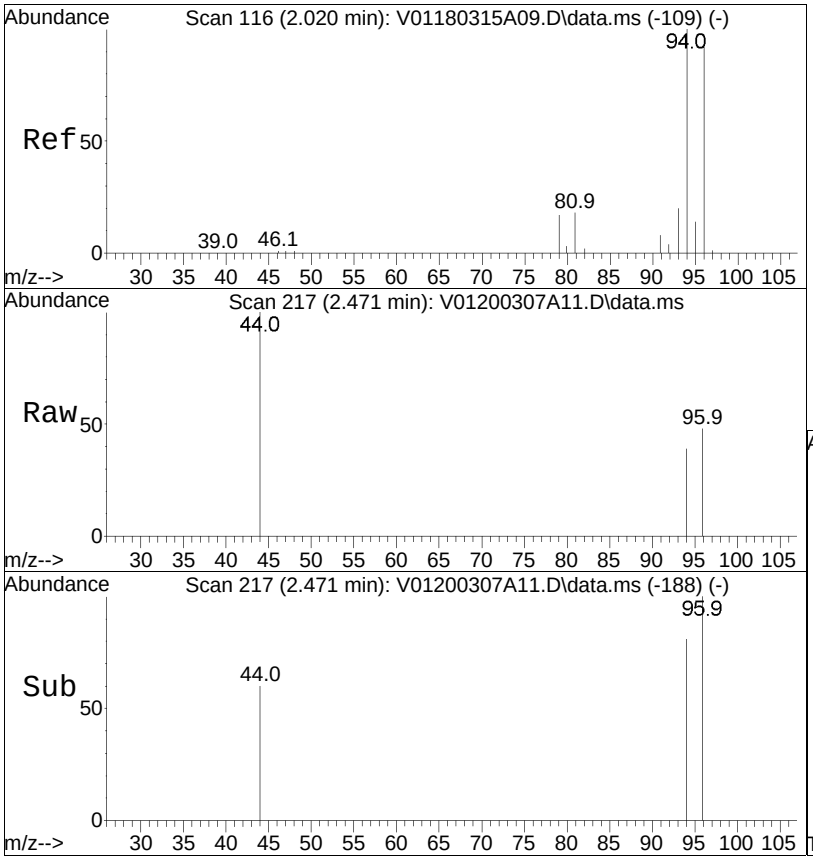


#2
Dichlorodifluoromethane
Concen: 73.88 ug/L
RT: 1.822 min Scan# 98
Delta R.T. 0.001 min
Lab File: V01200307A11.D
Acq: 7 Mar 2020 1:29 pm

Tgt Ion: 85 Resp: 269847

Ion	Ratio	Lower	Upper
85	100		
87	32.2	20.9	43.5
50	14.6	9.1	18.9

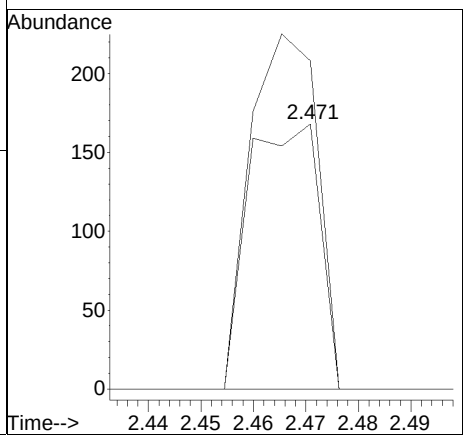


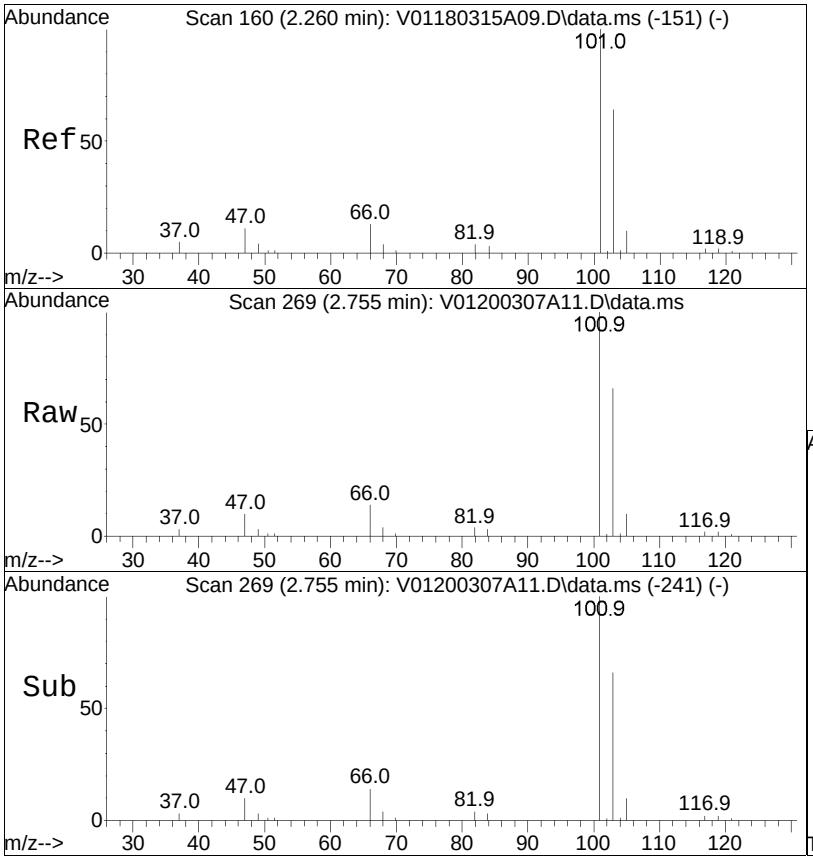


#5
Bromomethane
Concen: 0.07 ug/L
RT: 2.471 min Scan# 217
Delta R.T. 0.006 min
Lab File: V01200307A11.D
Acq: 7 Mar 2020 1:29 pm

Tgt Ion: 94 Resp: 157

Ion	Ratio	Lower	Upper
94	100		
96	126.8	73.6	113.6#

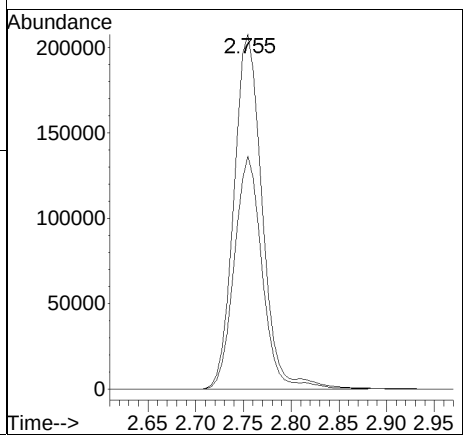


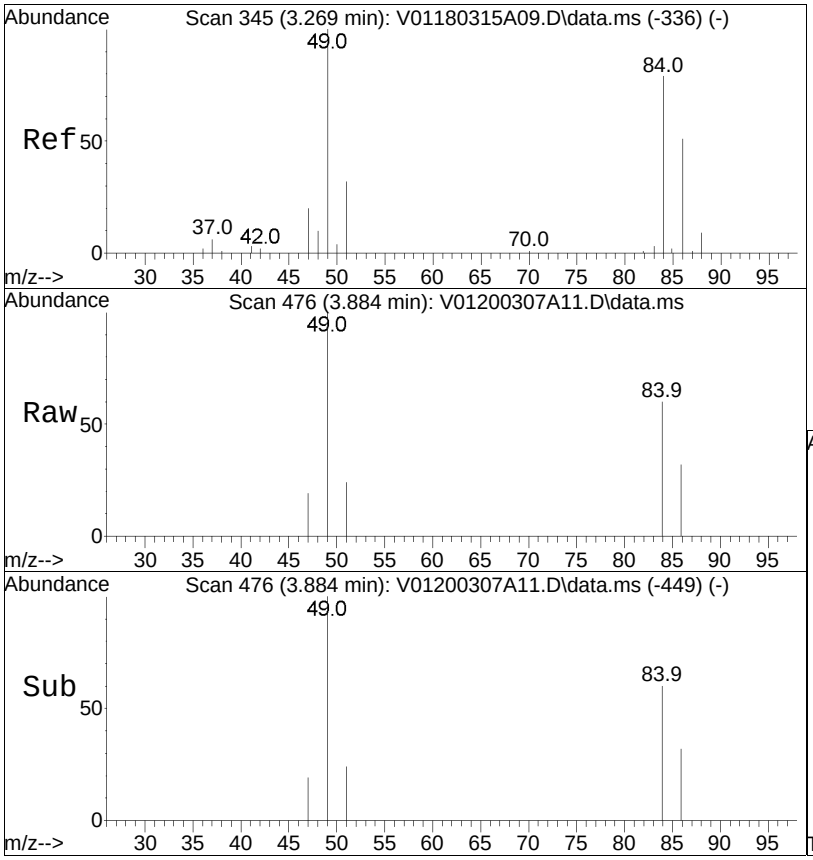


#7
Trichlorofluoromethane
Concen: 71.46 ug/L
RT: 2.755 min Scan# 269
Delta R.T. 0.001 min
Lab File: V01200307A11.D
Acq: 7 Mar 2020 1:29 pm

Tgt Ion:101 Resp: 430630

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.3	78.5

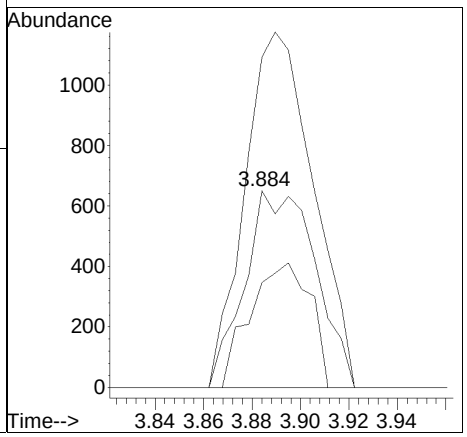


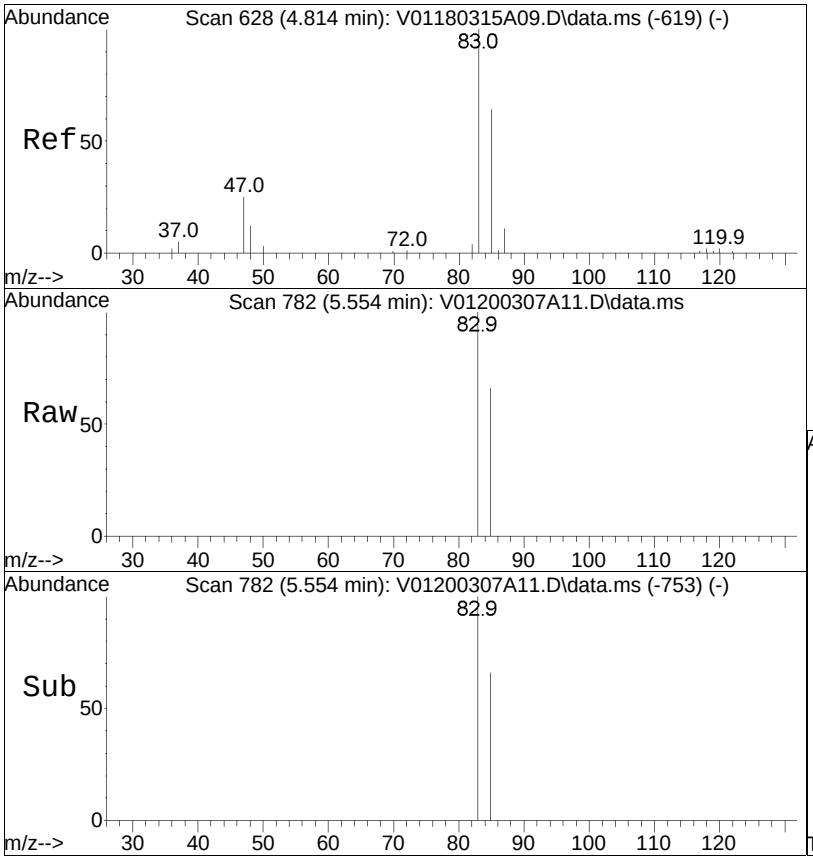


#15
Methylene chloride
Concen: 0.34 ug/L
RT: 3.884 min Scan# 476
Delta R.T. -0.005 min
Lab File: V01200307A11.D
Acq: 7 Mar 2020 1:29 pm

Tgt Ion: 84 Resp: 1314

Ion	Ratio	Lower	Upper
84	100		
86	54.1	41.7	86.7
49	175.0	89.1	185.1

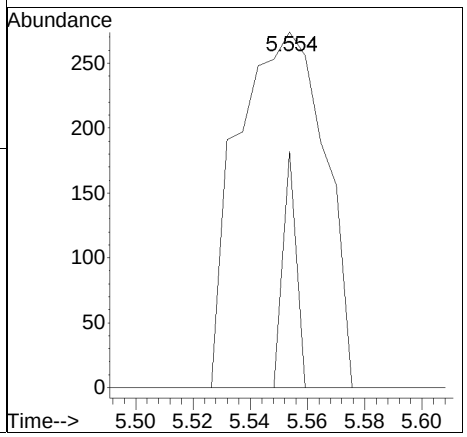


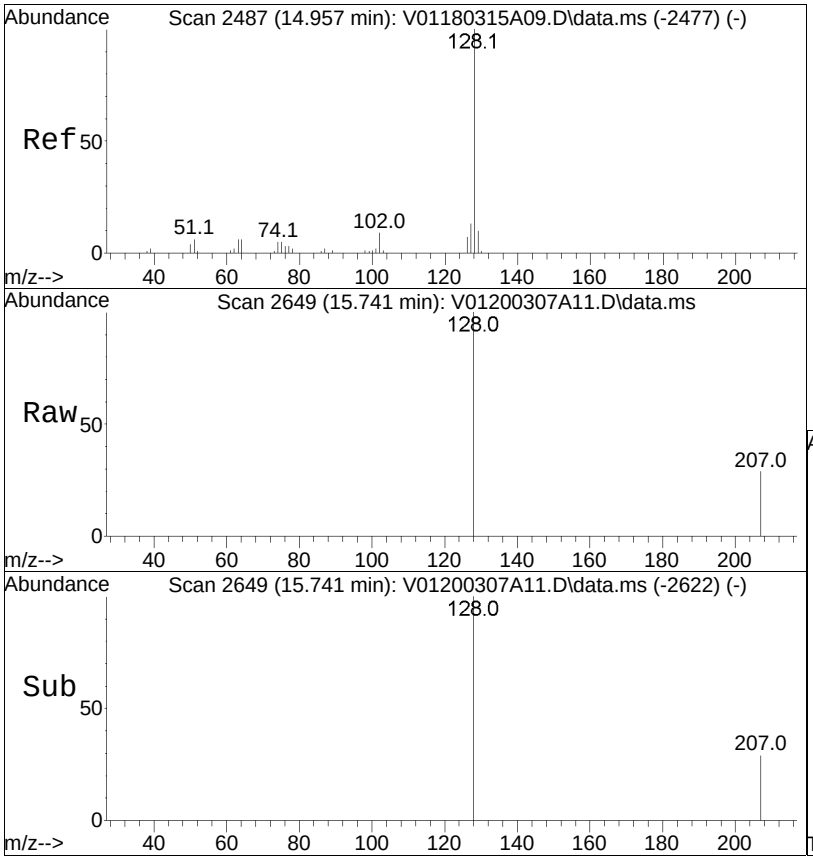


#32
Chloroform
Concen: 0.08 ug/L
RT: 5.554 min Scan# 782
Delta R.T. 0.006 min
Lab File: V01200307A11.D
Acq: 7 Mar 2020 1:29 pm

Tgt Ion: 83 Resp: 577

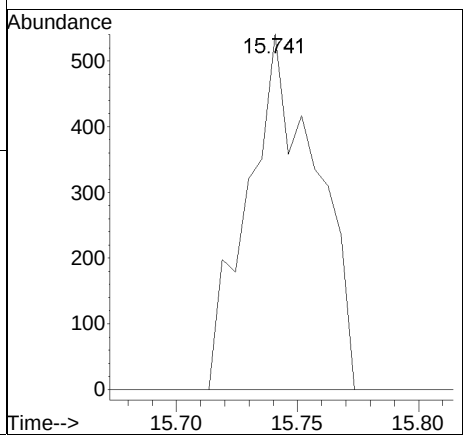
Ion	Ratio	Lower	Upper
83	100		
85	10.4	42.3	87.8#
47	0.0	17.8	37.0#
48	0.0	9.3	19.3#





#110
Naphthalene
Concen: 0.14 ug/L
RT: 15.741 min Scan# 2649
Delta R.T. -0.000 min
Lab File: V01200307A11.D
Acq: 7 Mar 2020 1:29 pm

Tgt Ion:128 Resp: 1062



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2020\2Q	Method	: V101_200219A_8260.m
Data File	: V01200307A11.D	Operator	: VOA101:ajk
Date Inj'd	: 3/7/2020 1:29 pm	Instrument	: VOA 101
Sample	: l2009793-01,31,10,10,,a	Quant Date	: 3/8/2020 6:03 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: V01200307A11.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.674	61	71	86	rBV	344063	830874	86.67%	14.698%
2	1.822	93	98	116	rVB	369058	497975	51.95%	8.809%
3	2.755	259	269	275	rBV	477272	958625	100.00%	16.958%
4	2.815	275	280	310	rVB	375863	738672	77.06%	13.067%
5	5.745	806	817	835	rBV	63375	158933	16.58%	2.812%
6	6.323	912	923	940	rBV	61124	156808	16.36%	2.774%
7	6.634	968	980	1014	rBB	176321	444135	46.33%	7.857%
8	8.500	1309	1322	1346	rBB	219352	561365	58.56%	9.931%
9	10.524	1681	1693	1712	rBB	190921	478992	49.97%	8.473%
10	12.030	1959	1969	1983	rBB	155069	354821	37.01%	6.277%
11	13.324	2195	2206	2223	rBB	211067	471640	49.20%	8.343%

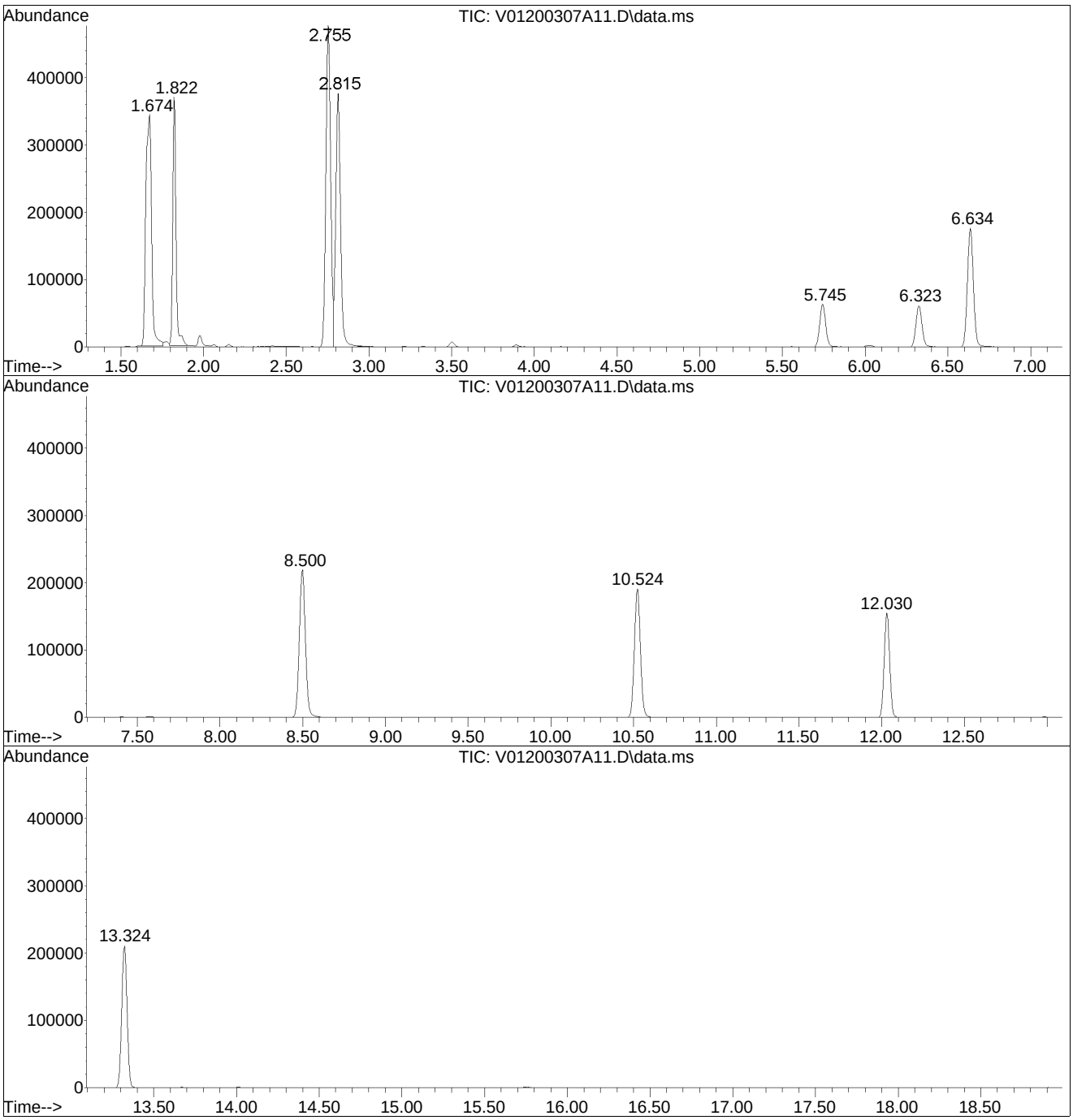
Sum of corrected areas: 5652840

LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

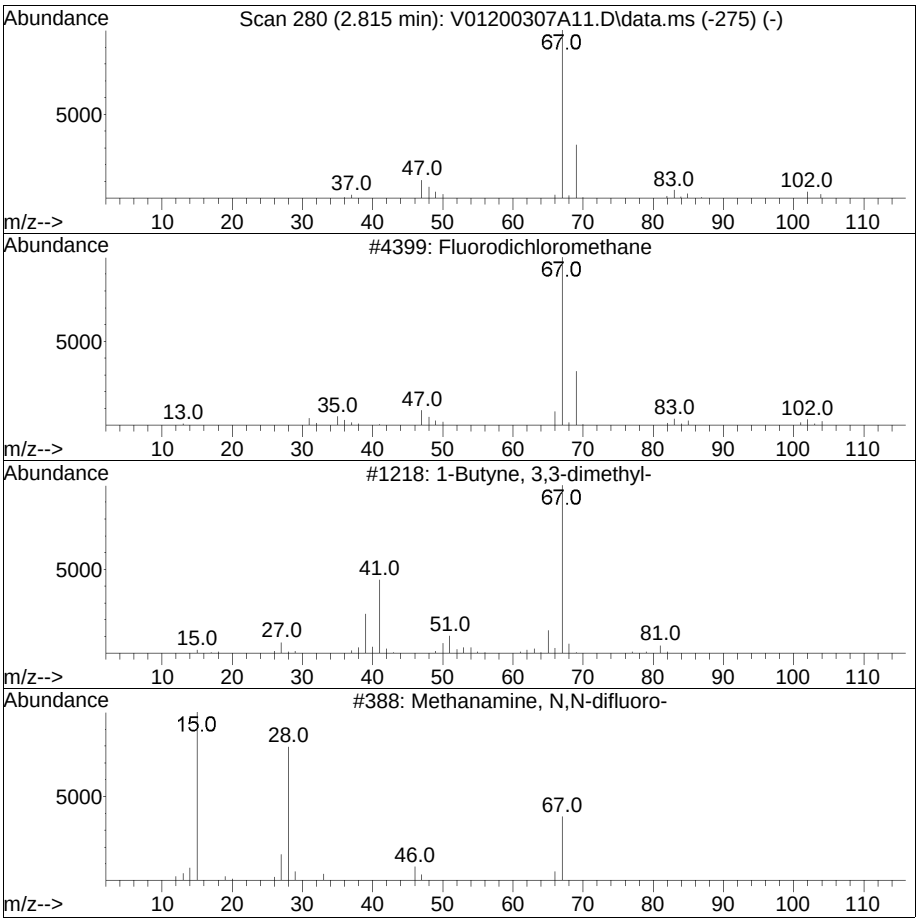
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

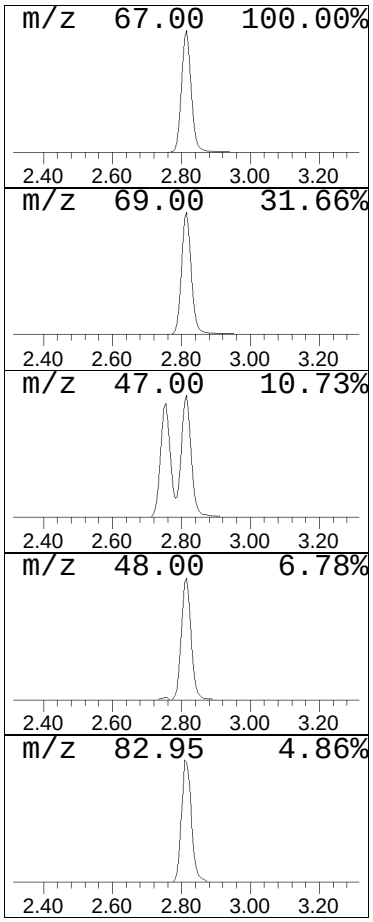
****

Peak Number 2 Fluorodichloromethane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.815	16.63 ug/L	738672	Fluorobenzene	6.634

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluorodichloromethane	102	CHCl2F	000075-43-4	91
2	1-Butyne, 3,3-dimethyl-	82	C6H10	000917-92-0	7
3	Methanamine, N,N-difluoro-	67	CH3F2N	000753-58-2	5
4	1-Hexyne	82	C6H10	000693-02-7	4
5	Divinyl sulphone	118	C4H6O2S	000077-77-0	4





Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A11.D
Acq On : 7 Mar 2020 1:29 pm
Operator : VOA101:ajk
Sample : l2009793-01,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 11 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Fluorodichlorom...	2.815	16.6	ug/L	738672	1	6.634	444135	10.0

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 18:16:26 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	201389	10.000	ug/L	0.00
Standard Area 1 = 235149			Recovery = 85.64%			
59) Chlorobenzene-d5	10.524	117	148843	10.000	ug/L	0.00
Standard Area 1 = 168234			Recovery = 88.47%			
79) 1,4-Dichlorobenzene-d4	13.323	152	76874	10.000	ug/L	0.00
Standard Area 1 = 84540			Recovery = 90.93%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	49788	9.597	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.97%			
43) 1,2-Dichloroethane-d4	6.323	65	55182	9.924	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.24%			
60) Toluene-d8	8.500	98	203238	9.558	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.58%			
83) 4-Bromofluorobenzene	12.036	95	77003	9.292	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	98775	27.233	ug/L	99
3) Chloromethane	2.029	50	125	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.471	94	102	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	2.754	101	62785	10.492	ug/L	96
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.327	76	342	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.933	43	817	Below Cal #		64
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	4.157	73	302	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 18:16:26 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	10.524	91	51		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	0.000		0		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 18:16:26 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.871	105	50	N.D.		
98)	sec-Butylbenzene	12.871	105	50	N.D.		
99)	p-Isopropyltoluene	13.143	119	1246	0.082	ug/L #	63
100)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
101)	1,4-Dichlorobenzene	13.345	146	54	N.D.		
102)	p-Diethylbenzene	0.000		0	N.D.		
103)	n-Butylbenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
105)	1,2,4,5-Tetramethylben...	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
108)	Hexachlorobutadiene	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
110)	Naphthalene	15.752	128	400	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

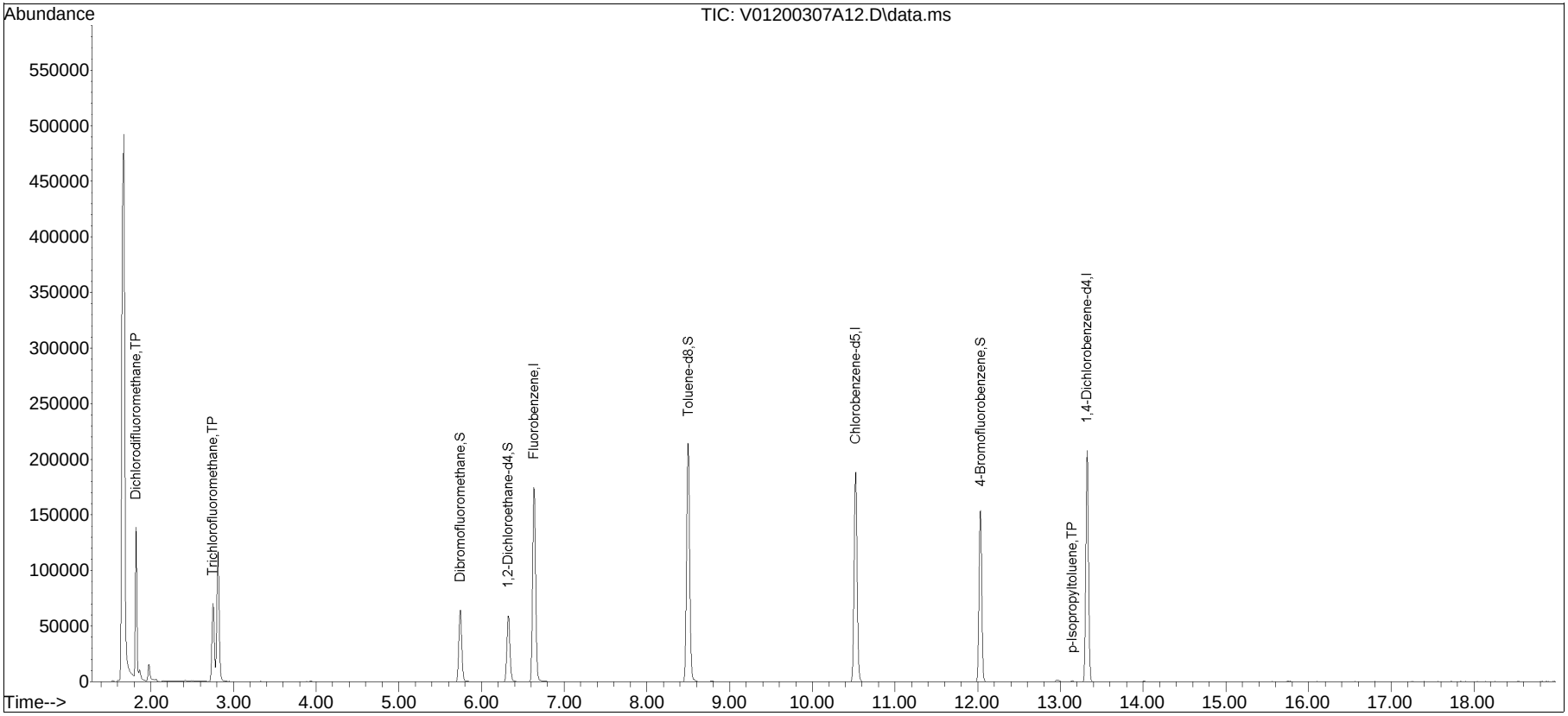
(#) = qualifier out of range (m) = manual integration (+) = signals summed

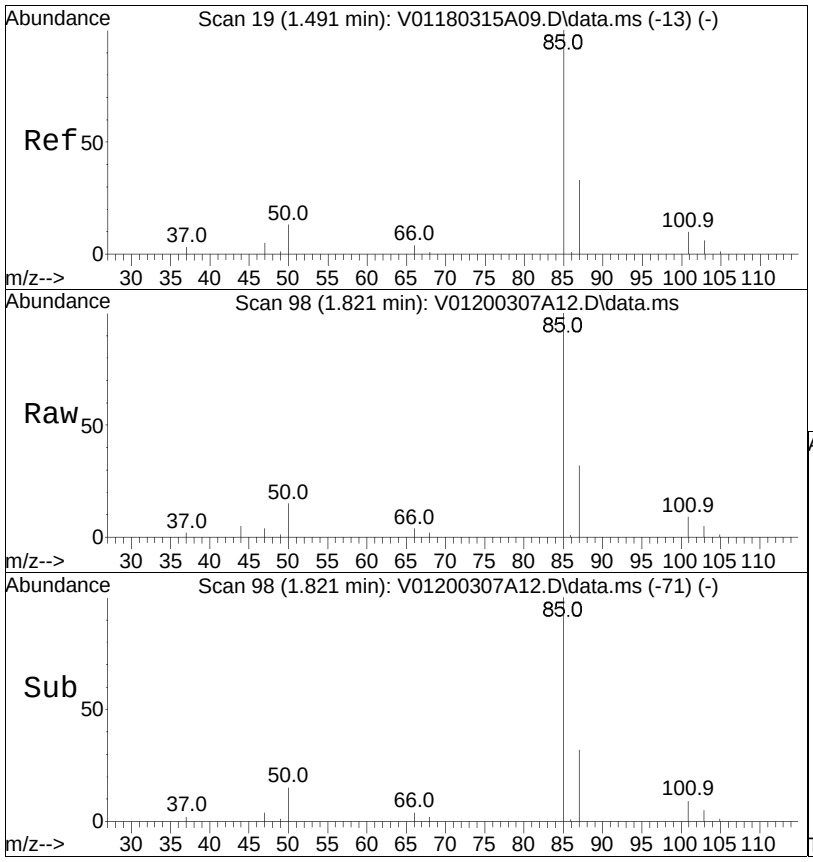
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 18:16:26 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox00307A\V01200307A01.D•

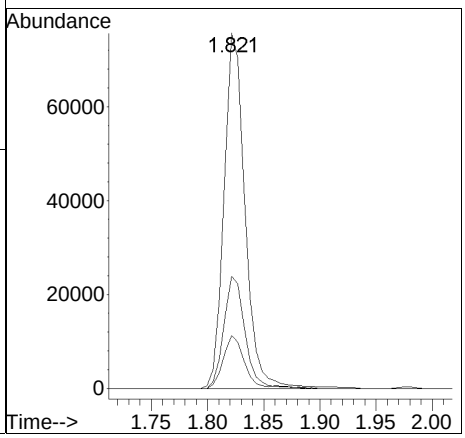


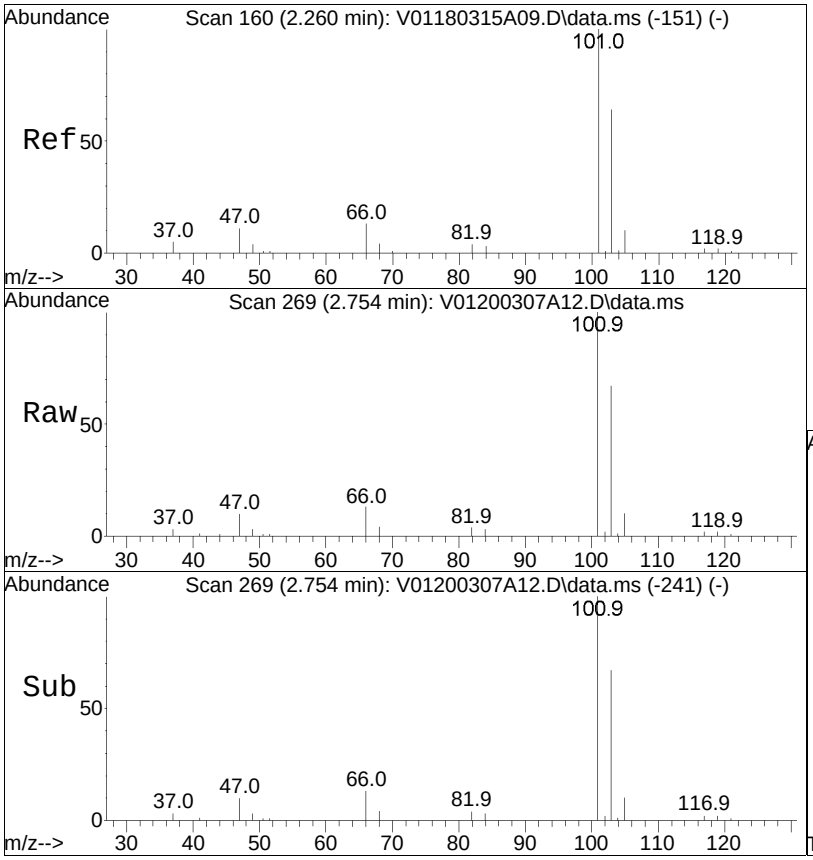


#2
Dichlorodifluoromethane
Concen: 27.23 ug/L
RT: 1.821 min Scan# 98
Delta R.T. 0.000 min
Lab File: V01200307A12.D
Acq: 7 Mar 2020 1:53 pm

Tgt Ion: 85 Resp: 98775

Ion	Ratio	Lower	Upper
85	100		
87	31.6	20.9	43.5
50	14.6	9.1	18.9

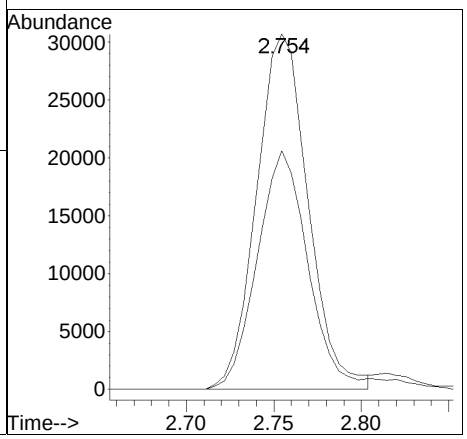


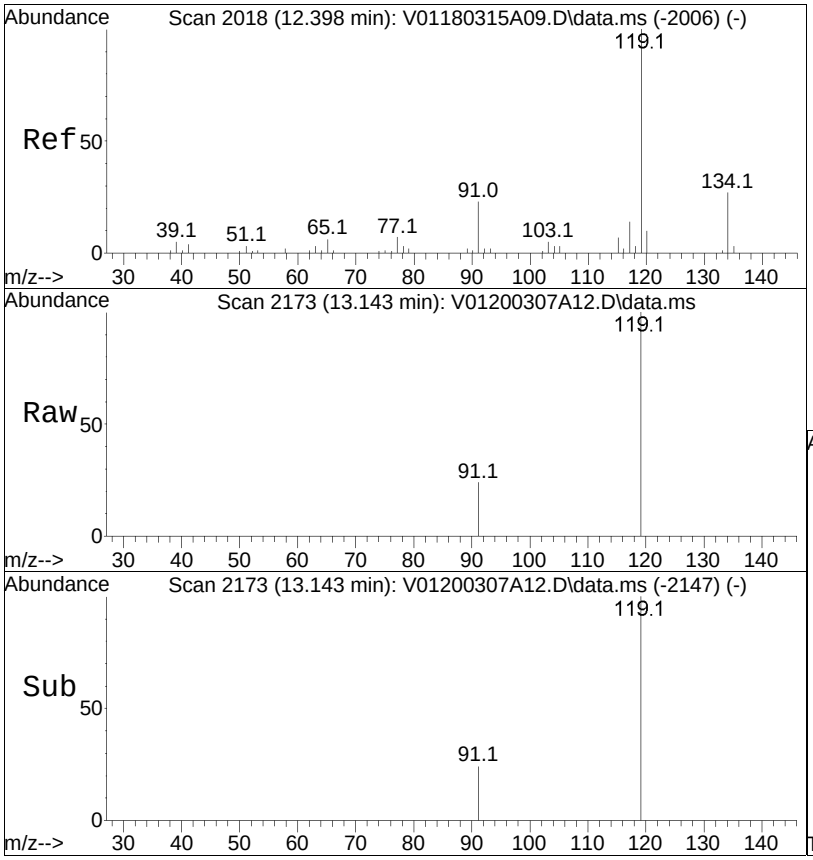


#7
Trichlorofluoromethane
Concen: 10.49 ug/L
RT: 2.754 min Scan# 269
Delta R.T. 0.000 min
Lab File: V01200307A12.D
Acq: 7 Mar 2020 1:53 pm

Tgt Ion:101 Resp: 62785

Ion	Ratio	Lower	Upper
101	100		
103	68.4	52.3	78.5

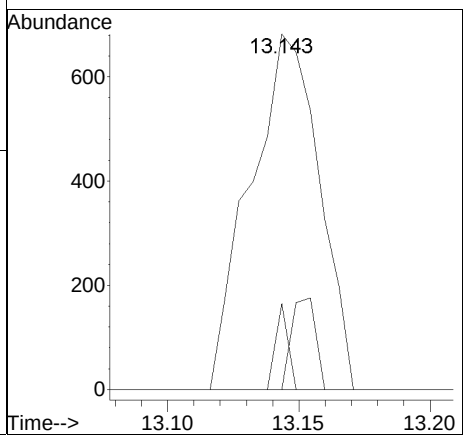




#99
p-Isopropyltoluene
Concen: 0.08 ug/L
RT: 13.143 min Scan# 2173
Delta R.T. -0.006 min
Lab File: V01200307A12.D
Acq: 7 Mar 2020 1:53 pm

Tgt Ion:119 Resp: 1246

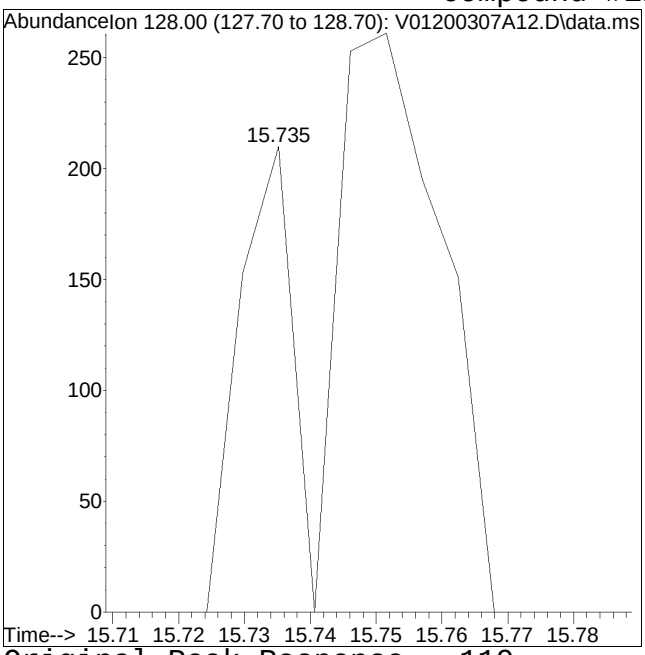
Ion	Ratio	Lower	Upper
119	100		
134	9.0	17.7	36.7#
91	4.3	15.4	32.0#

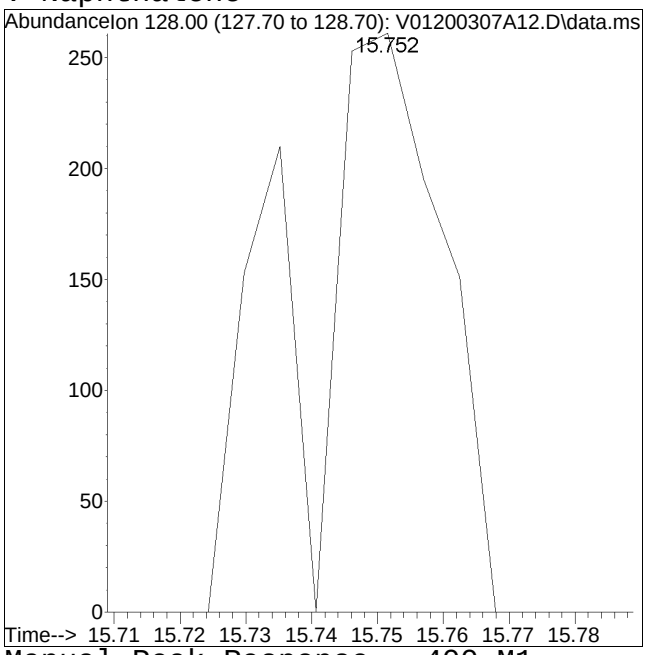


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200307A12.D Operator : VOA101:ajk
Date Inj'd : 3/7/2020 1:53 pm Instrument : VOA 101
Sample : l2009793-02,31,10,10,,a Quant Date : 3/8/2020 6:03 pm

Compound #110: Naphthalene





Original Peak Response = 119 Manual Peak Response = 400 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

LSC Area Percent Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: V01200307A12.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.674	61	71	93	rBV	490970	1196466	100.00%	27.676%
2	1.821	94	98	104	rBV	133959	165984	13.87%	3.839%
3	2.754	257	269	274	rBV	70032	138113	11.54%	3.195%
4	2.815	274	280	298	rVB	116639	224816	18.79%	5.200%
5	5.745	806	817	837	rBB	64607	158019	13.21%	3.655%
6	6.323	913	923	943	rBB	59121	152586	12.75%	3.530%
7	6.634	966	980	1005	rBV	174846	440180	36.79%	10.182%
8	8.495	1309	1321	1345	rBB	214565	555337	46.41%	12.846%
9	10.524	1681	1693	1711	rBB	188648	475404	39.73%	10.997%
10	12.030	1959	1969	1984	rBB	154400	350403	29.29%	8.105%
11	13.323	2195	2206	2219	rBB	207817	465840	38.93%	10.775%

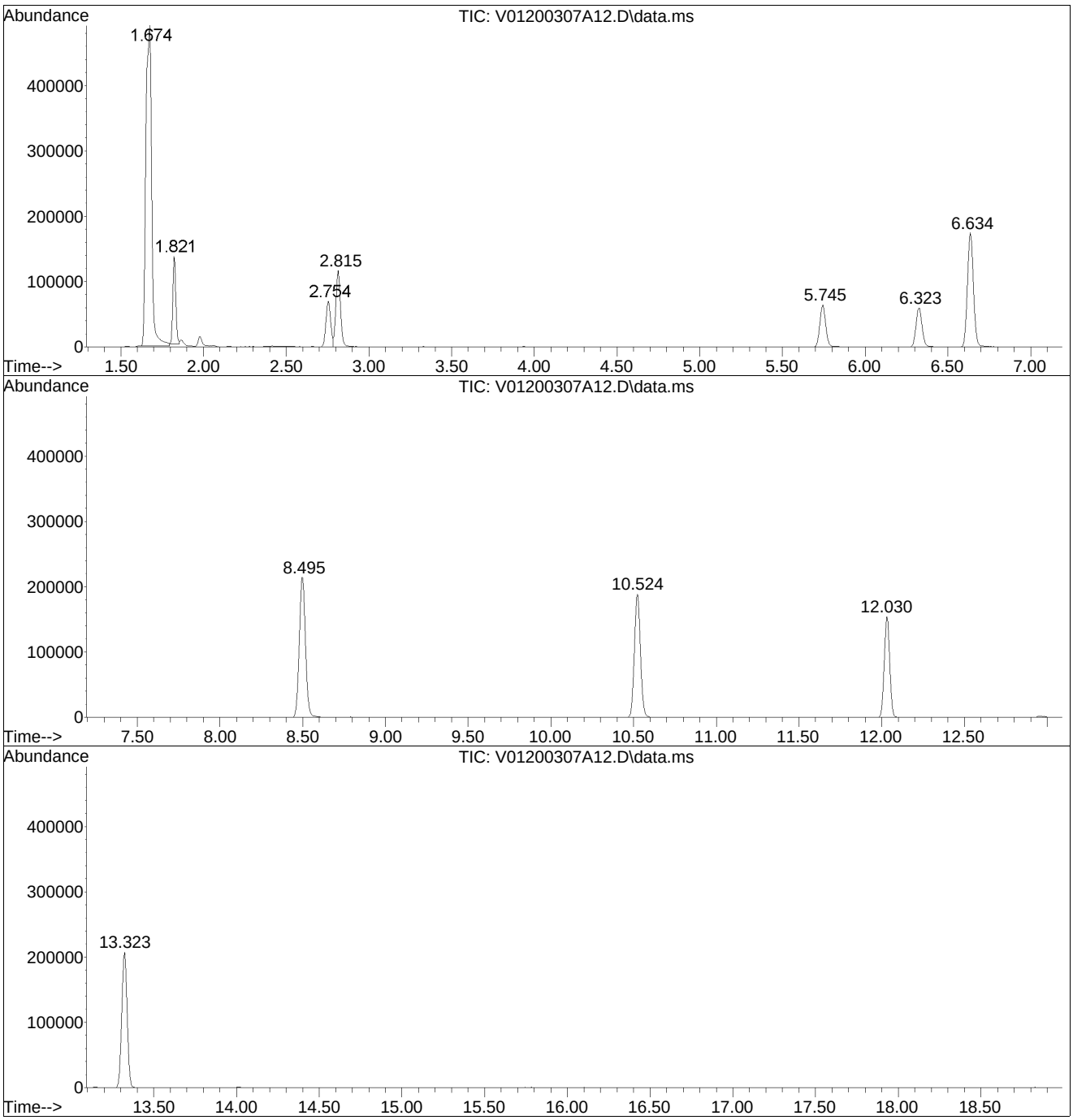
Sum of corrected areas: 4323148

LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
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Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

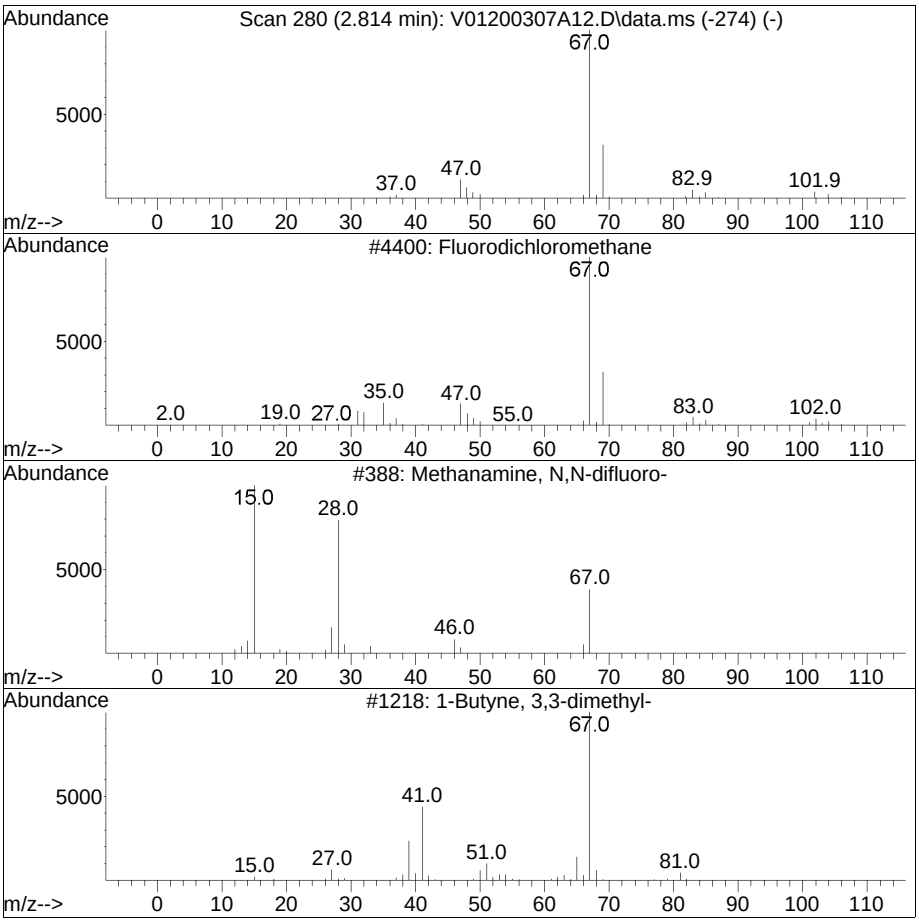
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

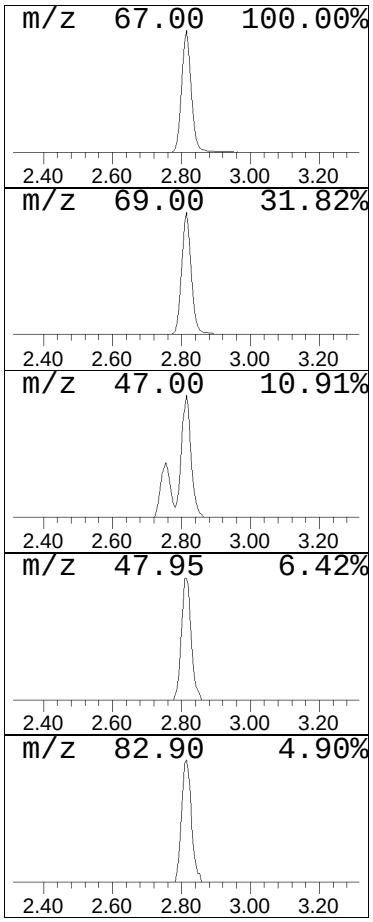
****

Peak Number 2 Fluorodichloromethane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.814	5.11 ug/L	224816	Fluorobenzene	6.634

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluorodichloromethane	102	CHCl2F	000075-43-4	91
2	Methanamine, N,N-difluoro-	67	CH3F2N	000753-58-2	5
3	1-Butyne, 3,3-dimethyl-	82	C6H10	000917-92-0	4
4	1-Hexyne	82	C6H10	000693-02-7	4
5	Chlorine dioxide	67	ClO2	010049-04-4	4





Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A12.D
Acq On : 7 Mar 2020 1:53 pm
Operator : VOA101:ajk
Sample : l2009793-02,31,10,10,,a
Misc : WG1348564,ICAL16539
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Fluorodichlorom...	2.814	5.1	ug/L	224816	1	6.634	440180	10.0

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Soils Engineering Services, Inc.**	**Lab Number**	**: L2009793**
Project Name	**: GROSSINGERS**	**Project Number**	**: 9313**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL16379**
Calibration dates	**: 12/19/19 15:43 12/19/19 19:28**		

Calibration Files
L11 =V22191219N03.D L1 =V22191219N05.D L2 =V22191219N07.D L3 =V22191219N08.D L4 =V22191219N09.D
L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.144	0.173	0.189	0.184	0.168	0.176	0.171	0.172	8.43
3)	TP	Chloromethane		0.239	0.236	0.242	0.233	0.209	0.216	0.214	0.227	5.94
4)	TC	Vinyl chloride	0.224	0.221	0.276	0.281	0.276	0.249	0.257	0.255	0.255	9.04
5)	TP	Bromomethane	0.430	0.327	0.276	0.230	0.189	0.176			*Q	0.9975
6)	TP	Chloroethane		0.178	0.205	0.209	0.201	0.169	0.142		0.184	14.19
7)	TP	Trichlorofluor		0.294	0.366	0.388	0.376	0.334	0.343	0.334	0.348	9.09
8)	TP	Ethyl ether		0.094	0.105	0.107	0.106	0.102	0.104	0.102	0.103	4.30
10)	TC	1,1-Dichloroet		0.181	0.208	0.218	0.209	0.185	0.189	0.183	0.196	7.71
11)	TP	Carbon disulfide		0.496	0.561	0.561	0.528	0.468	0.490	0.480	0.512	7.45
12)	TP	Freon-113		0.183	0.228	0.240	0.229	0.205	0.212	0.207	0.215	8.98
13)	TP	Iodomethane			0.081	0.139	0.212	0.206	0.203	0.188	*Q	0.9983
14)	TP	Acrolein		0.024	0.028	0.030	0.032	0.030	0.033	0.032	0.030#	9.80
15)	TP	Methylene chlo		0.216	0.237	0.235	0.225	0.209	0.217	0.215	0.222	4.65
17)	TP	Acetone		0.079	0.054	0.055	0.056	0.050	0.052	0.052	0.057#	17.81
18)	TP	trans-1,2-Dich		0.191	0.232	0.230	0.221	0.196	0.204	0.200	0.211	7.96
19)	TP	Methyl acetate		0.110	0.115	0.094	0.088	0.090	0.096	0.095	0.098#	10.44
21)	TP	Methyl tert butyl ether		0.479	0.509	0.510	0.481	0.432	0.439	0.410	0.466	8.44
22)	TP	tert-Butyl alc		0.018	0.016	0.014	0.012	0.012	0.014	0.014	0.015#	14.63
24)	TP	Diisopropyl ether		0.610	0.671	0.677	0.673	0.639	0.664	0.655	0.655	3.64
25)	TP	1,1-Dichloroet		0.357	0.460	0.454	0.441	0.412	0.428	0.411	0.423	8.26
26)	TP	Halothane		0.163	0.198	0.197	0.193	0.178	0.185	0.182	0.185	6.60
27)	TP	Acrylonitrile		0.047	0.055	0.053	0.055	0.052	0.054	0.053	0.053	5.63
28)	TP	Ethyl tert-but		0.605	0.654	0.669	0.673	0.630	0.645	0.606	0.640	4.30
29)	TP	Vinyl acetate		0.278	0.380	0.338	0.346	0.371	0.406	0.409	0.361	12.60
30)	TP	cis-1,2-Dichlo		0.240	0.288	0.282	0.271	0.244	0.252	0.245	0.260	7.56
31)	TP	2,2-Dichloropr		0.248	0.340	0.265	0.200	0.209	0.228	0.222	0.244	19.38
32)	TP	Bromochloromet		0.111	0.123	0.123	0.115	0.094	0.095	0.094	0.108	12.53
33)	TP	Cyclohexane		0.351	0.429	0.448	0.431	0.407	0.428	0.421	0.417	7.50
34)	TC	Chloroform		0.390	0.443	0.442	0.427	0.396	0.408	0.404	0.416	5.23
35)	TP	Ethyl acetate		0.166	0.148	0.151	0.153	0.147	0.154	0.151	0.153	4.07
36)	TP	Carbon tetrachloride	0.292	0.309	0.380	0.391	0.376	0.352	0.370	0.362	0.354	10.01
37)	TP	Tetrahydrofuran		0.055	0.057	0.054	0.054	0.051	0.053	0.051	0.054	3.90
38)	S	Dibromofluoromethane	0.287	0.299	0.298	0.290	0.290	0.284	0.283	0.279	0.289	2.42
39)	TP	1,1,1-Trichlor		0.347	0.404	0.414	0.397	0.364	0.376	0.364	0.381	6.48
41)	TP	2-Butanone		0.096	0.075	0.069	0.066	0.063	0.066	0.064	0.071#	16.03

Initial Calibration Summary
Form 6
Volatiles

Client	**: Soils Engineering Services, Inc.**	**Lab Number**	**: L2009793**
Project Name	**: GROSSINGERS**	**Project Number**	**: 9313**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL16379**
Calibration dates	**: 12/19/19 15:43 12/19/19 19:28**		

Calibration Files
L11 =V22191219N03.D L1 =V22191219N05.D L2 =V22191219N07.D L3 =V22191219N08.D L4 =V22191219N09.D
L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
42) TP	1,1-Dichloropr		0.258	0.334	0.342	0.339	0.312	0.326	0.319	0.319	9.05
44) TP	Benzene	0.817	0.801	0.948	0.954	0.935	0.873	0.900	0.873	0.888	6.53
45) TP	Tertiary-Amyl Methyl Ether		0.508	0.611	0.626	0.641	0.617	0.634	0.605	0.606	7.39
46) S	1,2-Dichloroethane-d4	0.354	0.361	0.356	0.313	0.316	0.319	0.322	0.329	0.334	5.93
47) T	1,2-Dichloroet		0.248	0.241	0.226	0.222	0.207	0.212	0.215	0.225	6.72
50) TP	Methyl cyclohe		0.334	0.420	0.469	0.457	0.439	0.459	0.451	0.433	10.67
51) TP	Trichloroethene	0.228	0.227	0.260	0.265	0.267	0.247	0.257	0.257	0.251	6.36
53) TP	Dibromomethane		0.135	0.138	0.139	0.138	0.131	0.133	0.126	0.134	3.58
54) TC	1,2-Dichloropr		0.220	0.240	0.248	0.247	0.232	0.239	0.236	0.237	3.92
56) TP	2-Chloroethyl		0.103	0.122	0.123	0.112	0.090	0.080		0.105	16.46
57) TP	Bromodichlorom		0.276	0.308	0.330	0.335	0.318	0.329	0.322	0.317	6.34
60) TP	1,4-Dioxane		0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002#	8.89
61) TP	cis-1,3-Dichlo		0.328	0.369	0.413	0.415	0.393	0.403	0.397	0.388	7.87
62) I	Chlorobenzene-d5	----------ISTD----------									
63) S	Toluene-d8	1.306	1.308	1.317	1.309	1.297	1.280	1.276	1.244	1.292	1.87
64) TC	Toluene		0.640	0.764	0.756	0.741	0.705	0.724	0.703	0.719	5.86
65) TP	4-Methyl-2-pen		0.056	0.068	0.068	0.076	0.074	0.077	0.074	0.070#	10.54
66) TP	Tetrachloroethene		0.327	0.371	0.379	0.372	0.345	0.356	0.343	0.356	5.30
68) TP	trans-1,3-Dich		0.344	0.398	0.408	0.407	0.389	0.394	0.373	0.388	5.81
70) TP	Ethyl methacry		0.222	0.252	0.265	0.277	0.277	0.284	0.274	0.265	8.20
71) TP	1,1,2-Trichlor		0.176	0.195	0.195	0.197	0.185	0.187	0.181	0.188	4.18
72) TP	Chlorodibromom		0.238	0.274	0.284	0.293	0.284	0.291	0.283	0.278	6.69
73) TP	1,3-Dichloropr		0.356	0.392	0.396	0.399	0.379	0.384	0.365	0.382	4.22
74) TP	1,2-Dibromoethane		0.206	0.235	0.239	0.236	0.230	0.233	0.221	0.229	4.97
76) TP	2-Hexanone		0.102	0.118	0.121	0.128	0.128	0.131	0.125	0.122	7.92
77) TP	Chlorobenzene		0.768	0.829	0.848	0.835	0.786	0.805	0.785	0.808	3.71
78) TC	Ethylbenzene		1.198	1.418	1.497	1.485	1.410	1.429	1.355	1.399	7.20
79) TP	1,1,1,2-Tetrac		0.237	0.308	0.315	0.317	0.301	0.305	0.293	0.297	9.25
80) TP	p/m Xylene		0.462	0.572	0.590	0.598	0.569	0.584	0.568	0.563	8.21
81) TP	o Xylene		0.436	0.521	0.549	0.558	0.544	0.560	0.544	0.530	8.24
82) TP	Styrene		0.699	0.830	0.907	0.948	0.923	0.924	0.866	0.871	9.83
83) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
84) TP	Bromoform		0.303	0.336	0.355	0.375	0.381	0.402	0.403	0.365	10.01
86) TP	Isopropylbenzene		2.906	3.462	3.518	3.297	3.148	3.244	3.212	3.255	6.26
87) S	4-Bromofluorobenzene	0.979	0.989	1.004	0.998	0.965	0.957	0.967	0.996	0.982	1.79
88) TP	Bromobenzene		0.622	0.712	0.713	0.667	0.653	0.684	0.685	0.677	4.82

Initial Calibration Summary
Form 6
Volatiles

Client	**: Soils Engineering Services, Inc.**	**Lab Number**	**: L2009793**
Project Name	**: GROSSINGERS**	**Project Number**	**: 9313**
Instrument ID	**: VOA122**	**Ical Ref**	**: ICAL16379**
Calibration dates	**: 12/19/19 15:43 12/19/19 19:28**		

Calibration Files
L11 =V22191219N03.D L1 =V22191219N05.D L2 =V22191219N07.D L3 =V22191219N08.D L4 =V22191219N09.D
L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
89) TP	n-Propylbenzene		2.923	3.548	3.674	3.509	3.380	3.448	3.314	3.400	7.07
90) TP	1,4-Dichlorobu		0.683	0.746	0.727	0.724	0.709	0.745	0.739	0.725	3.12
91) TP	1,1,2,2-Tetrac		0.517	0.521	0.512	0.504	0.484	0.498	0.486	0.503	2.89
92) TP	4-Ethyltoluene		2.263	2.762	2.887	2.733	2.604	2.674	2.601	2.646	7.40
93) TP	2-Chlorotoluene		1.935	2.310	2.344	2.227	2.095	2.165	2.124	2.171	6.41
94) TP	1,3,5-Trimethy		1.992	2.376	2.480	2.381	2.281	2.349	2.321	2.311	6.66
95) TP	1,2,3-Trichlor		0.429	0.454	0.433	0.424	0.414	0.434	0.434	0.432	2.80
96) TP	trans-1,4-Dich		0.142	0.146	0.141	0.143	0.141	0.144	0.144	0.143	1.27
97) TP	4-Chlorotoluene		1.770	2.063	2.115	2.018	1.923	1.980	1.934	1.972	5.68
98) TP	tert-Butylbenzene		1.758	2.060	2.173	2.087	2.029	2.106	2.074	2.041	6.49
101) TP	1,2,4-Trimethy		1.930	2.252	2.364	2.308	2.252	2.314	2.251	2.239	6.36
102) TP	sec-Butylbenzene		2.300	2.835	2.973	3.138	3.061	3.101	3.006	2.916	9.92
103) TP	p-Isopropyltol		1.991	2.390	2.564	2.750	2.682	2.717	2.633	2.532	10.55
104) TP	1,3-Dichlorobe		1.261	1.357	1.380	1.318	1.263	1.293	1.267	1.305	3.67
105) TP	1,4-Dichlorobe		1.240	1.370	1.361	1.286	1.237	1.257	1.244	1.285	4.47
106) TP	p-Diethylbenzene		1.048	1.238	1.350	1.330	1.334	1.371	1.361	1.290	8.95
107) TP	n-Butylbenzene		1.653	1.975	2.130	2.075	2.007	2.055	1.979	1.982	7.84
108) TP	1,2-Dichlorobe		1.065	1.216	1.217	1.175	1.137	1.174	1.138	1.160	4.58
109) TP	1,2,4,5-Tetram		1.428	1.677	1.760	1.741	1.768	1.843	1.860	1.725	8.40
110) TP	1,2-Dibromo-3-		0.078	0.088	0.085	0.088	0.089	0.096	0.095	0.088	7.12
111) TP	1,3,5-Trichlor		0.643	0.773	0.771	0.732	0.708	0.723	0.729	0.726	6.07
112) TP	Hexachlorobuta		0.229	0.240	0.258	0.247	0.235	0.248	0.253	0.244	4.22
113) TP	1,2,4-Trichlor		0.639	0.687	0.702	0.670	0.639	0.661	0.663	0.666	3.51
114) TP	Naphthalene		1.448	1.502	1.536	1.526	1.547	1.619	1.629	1.544	4.11
115) TP	1,2,3-Trichlor		0.613	0.605	0.631	0.600	0.591	0.615	0.618	0.611	2.16

Initial Calibration Summary
Form 6
Volatiles

Client	**: Soils Engineering Services, Inc.**	**Lab Number**	**: L2009793**
Project Name	**: GROSSINGERS**	**Project Number**	**: 9313**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL16539**
Calibration dates	**: 02/19/20 15:13 02/19/20 20:21**		

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.146	0.159	0.182	0.181	0.200	0.198	0.196	0.180	11.48
3)	TP	Chloromethane		0.260	0.252	0.269	0.264	0.286	0.287	0.289	0.273	5.51
4)	TC	Vinyl chloride	0.265	0.211	0.227	0.253	0.252	0.278	0.278	0.274	0.255	9.67
5)	TP	Bromomethane		0.112	0.096	0.088	0.087	0.105	0.117	0.121	0.104	13.30
6)	TP	Chloroethane		0.126	0.143	0.152	0.151	0.161	0.158	0.145	0.148	7.96
7)	TP	Trichlorofluor		0.257	0.262	0.299	0.298	0.326	0.322	0.316	0.297	9.33
8)	TP	Ethyl ether		0.076	0.072	0.087	0.084	0.092	0.091	0.092	0.085	9.62
10)	TC	1,1-Dichloroet		0.140	0.162	0.184	0.184	0.202	0.200	0.199	0.182	12.74
11)	TP	Carbon disulfide		0.504	0.443	0.477	0.466	0.516	0.520	0.521	0.492	6.17
12)	TP	Freon-113		0.147	0.159	0.183	0.180	0.199	0.195	0.192	0.179	10.69
13)	TP	Iodomethane		0.188	0.188	0.233	0.259	0.279	0.267	0.262	0.239	15.83
14)	TP	Acrolein			0.020	0.023	0.023	0.025	0.024	0.026	0.024#	8.39
15)	TP	Methylene chlo		0.168	0.176	0.191	0.186	0.202	0.202	0.204	0.190	7.42
16)	TP	Isopropyl alcohol			0.006	0.006	0.006	0.006	0.006	0.007	0.006#	4.11
17)	TP	Acetone		0.148	0.054	0.038	0.034	0.034	0.033	0.034	*L	0.9997
18)	TP	trans-1,2-Dich		0.178	0.173	0.192	0.189	0.207	0.207	0.207	0.193	7.36
19)	TP	Methyl acetate			0.111	0.097	0.088	0.094	0.089	0.087	0.095#	9.57
20)	TP	Methyl tert butyl ether		0.379	0.376	0.411	0.403	0.441	0.430	0.441	0.412	6.63
21)	TP	tert-Butyl alc		0.008	0.009	0.011	0.010	0.010	0.010	0.011	0.010#	11.06
22)	TP	Diisopropyl ether		0.641	0.662	0.735	0.710	0.767	0.751	0.744	0.716	6.65
23)	TP	1,1-Dichloroet		0.358	0.378	0.423	0.414	0.449	0.443	0.441	0.415	8.37
24)	TP	Halothane		0.116	0.136	0.157	0.158	0.176	0.174	0.175	0.156	14.63
25)	TP	Acrylonitrile		0.029	0.035	0.044	0.044	0.047	0.046	0.048	0.042#	16.59
26)	TP	Ethyl tert-but		0.577	0.574	0.638	0.628	0.677	0.665	0.670	0.633	6.77
27)	TP	Vinyl acetate		0.401	0.375	0.413	0.416	0.454	0.439	0.437	0.419	6.34
28)	TP	cis-1,2-Dichlo		0.198	0.213	0.228	0.225	0.248	0.247	0.249	0.230	8.62
29)	TP	2,2-Dichloropr		0.255	0.269	0.291	0.288	0.313	0.303	0.302	0.289	7.13
30)	TP	Bromochloromet		0.069	0.083	0.091	0.092	0.096	0.093	0.092	0.088	10.84
31)	TP	Cyclohexane		0.374	0.386	0.439	0.441	0.485	0.473	0.468	0.438	9.83
32)	TC	Chloroform		0.302	0.323	0.356	0.362	0.396	0.395	0.395	0.361	10.39
33)	TP	Ethyl acetate		0.149	0.132	0.129	0.128	0.138	0.134	0.139	0.136	5.28
34)	TP	Carbon tetrachloride	0.280	0.217	0.256	0.295	0.293	0.334	0.328	0.328	0.291	13.88
35)	TP	Tetrahydrofuran			0.037	0.038	0.037	0.039	0.037	0.038	0.038#	2.10
36)	S	Dibromofluoromethane	0.259	0.263	0.257	0.259	0.254	0.256	0.258	0.254	0.258	1.07
37)	TP	1,1,1-Trichlor		0.276	0.303	0.337	0.336	0.373	0.369	0.369	0.338	10.92

Initial Calibration Summary
Form 6
Volatiles

Client	**: Soils Engineering Services, Inc.**	**Lab Number**	**: L2009793**
Project Name	**: GROSSINGERS**	**Project Number**	**: 9313**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL16539**
Calibration dates	**: 02/19/20 15:13 02/19/20 20:21**		

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
38) TP	2-Butanol			0.010	0.009	0.009	0.009	0.009	0.010	0.009#	6.29
39) TP	2-Butanone			0.058	0.056	0.050	0.056	0.054	0.057	0.055#	5.36
40) TP	1,1-Dichloropr		0.228	0.253	0.289	0.291	0.324	0.319	0.320	0.289	12.66
41) TP	Benzene	0.867	0.671	0.716	0.792	0.777	0.858	0.856	0.856	0.799	9.27
42) TP	Tertiary-Amyl Methyl Ether		0.440	0.424	0.468	0.456	0.505	0.498	0.510	0.471	7.14
43) S	1,2-Dichloroethane-d4	0.268	0.288	0.280	0.274	0.275	0.274	0.272	0.278	0.276	2.24
44) TP	1,2-Dichloroet		0.213	0.234	0.252	0.248	0.272	0.268	0.268	0.251	8.54
46) TP	2-Methyl-2-but		0.007	0.008	0.009	0.009	0.009	0.009	0.010	0.009#	11.87
47) TP	Methyl cyclohe		0.257	0.279	0.325	0.326	0.368	0.366	0.367	0.327	13.68
48) TP	Trichloroethene	0.244	0.182	0.194	0.216	0.216	0.238	0.236	0.235	0.220	10.22
50) TP	Dibromomethane		0.071	0.086	0.094	0.096	0.105	0.104	0.106	0.095	13.34
51) TC	1,2-Dichloropr		0.186	0.202	0.231	0.227	0.250	0.248	0.248	0.227	10.95
52) TP	4-penten-2-ol			0.006	0.007	0.007	0.007	0.007	0.008	0.007#	9.02
53) TP	2-Chloroethyl				0.057	0.064	0.077	0.073	0.079	0.070	13.11
54) TP	Bromodichlorom		0.224	0.232	0.257	0.257	0.288	0.286	0.288	0.262	10.21
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.05
58) TP	cis-1,3-Dichlo		0.277	0.288	0.318	0.320	0.352	0.348	0.349	0.322	9.42
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.416	1.429	1.437	1.432	1.418	1.427	1.432	1.437	1.429	0.55
61) TC	Toluene		0.592	0.660	0.720	0.708	0.787	0.792	0.793	0.722	10.60
62) TP	4-Methyl-2-pen		0.041	0.057	0.068	0.067	0.076	0.074	0.077	0.066#	19.76
63) TP	Tetrachloroethene		0.237	0.271	0.305	0.305	0.346	0.344	0.350	0.308	13.80
65) TP	trans-1,3-Dich		0.330	0.327	0.367	0.373	0.417	0.415	0.424	0.379	10.79
66) TP	4-Methyl-2-pen		0.033	0.034	0.036	0.036	0.036	0.035	0.039	0.036#	4.69
67) TP	Ethyl methacry		0.227	0.219	0.245	0.245	0.277	0.269	0.280	0.252	9.68
68) TP	1,1,2-Trichlor		0.135	0.150	0.167	0.161	0.180	0.178	0.183	0.165	10.76
69) TP	Chlorodibromom		0.190	0.199	0.236	0.240	0.274	0.274	0.283	0.242	15.35
70) TP	1,3-Dichloropr		0.300	0.318	0.344	0.341	0.381	0.377	0.387	0.350	9.52
71) TP	1,2-Dibromoethane		0.149	0.173	0.187	0.189	0.210	0.210	0.217	0.191	12.69
72) TP	2-Hexanone		0.152	0.115	0.115	0.112	0.126	0.122	0.127	0.124	10.99
73) TP	Chlorobenzene		0.662	0.705	0.765	0.754	0.837	0.838	0.841	0.772	9.19
74) TC	Ethylbenzene		1.169	1.220	1.342	1.320	1.476	1.470	1.472	1.353	9.32
75) TP	1,1,1,2-Tetrac		0.229	0.251	0.273	0.277	0.311	0.311	0.315	0.281	11.81
76) TP	p/m Xylene		0.434	0.467	0.523	0.519	0.581	0.578	0.572	0.525	10.95
77) TP	o Xylene		0.403	0.450	0.490	0.482	0.540	0.539	0.534	0.491	10.56
78) TP	Styrene		0.680	0.737	0.808	0.807	0.908	0.913	0.909	0.823	11.22

Initial Calibration Summary
Form 6
Volatiles

Client	**: Soils Engineering Services, Inc.**	**Lab Number**	**: L2009793**
Project Name	**: GROSSINGERS**	**Project Number**	**: 9313**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL16539**
Calibration dates	**: 02/19/20 15:13 02/19/20 20:21**		

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.177	0.213	0.261	0.266	0.282	0.286	0.289	0.253	16.74
82)	TP	Isopropylbenzene		2.357	2.369	2.726	2.615	2.747	2.745	2.666	2.604	6.58
83)	S	4-Bromofluorobenzene	1.109	1.130	1.114	1.109	1.090	1.028	1.044	1.001	1.078	4.40
84)	TP	Bromobenzene		0.524	0.528	0.598	0.588	0.616	0.617	0.607	0.582	6.86
85)	TP	n-Propylbenzene		2.473	2.588	2.924	2.831	2.981	3.001	2.920	2.817	7.31
86)	TP	1,4-Dichlorobu		0.817	0.697	0.761	0.738	0.759	0.743	0.725	0.749	4.96
87)	TP	1,1,2,2-Tetrac		0.379	0.369	0.400	0.389	0.412	0.407	0.412	0.395	4.26
88)	TP	4-Ethyltoluene		1.974	2.093	2.374	2.298	2.464	2.496	2.427	2.304	8.61
89)	TP	2-Chlorotoluene		1.698	1.730	1.908	1.856	1.969	1.988	1.942	1.870	6.17
90)	TP	1,3,5-Trimethy		1.764	1.872	2.070	2.002	2.138	2.162	2.104	2.016	7.35
91)	TP	1,2,3-Trichlor		0.441	0.341	0.368	0.364	0.363	0.369	0.360	0.372	8.49
92)	TP	trans-1,4-Dich		0.097	0.113	0.125	0.119	0.131	0.130	0.129	0.121	10.18
93)	TP	4-Chlorotoluene		1.554	1.659	1.831	1.775	1.902	1.914	1.872	1.787	7.55
94)	TP	tert-Butylbenzene		1.442	1.546	1.744	1.692	1.834	1.856	1.821	1.705	9.25
97)	TP	1,2,4-Trimethy		1.793	1.808	1.996	1.962	2.119	2.129	2.102	1.987	7.15
98)	TP	sec-Butylbenzene		1.808	1.953	2.118	2.077	2.281	2.325	2.306	2.124	9.21
99)	TP	p-Isopropyltol		1.731	1.747	1.953	1.921	2.116	2.156	2.133	1.965	9.10
100)	TP	1,3-Dichlorobe		0.932	0.990	1.080	1.054	1.168	1.183	1.185	1.085	9.21
101)	TP	1,4-Dichlorobe		1.001	0.977	1.080	1.072	1.178	1.191	1.194	1.099	8.25
102)	TP	p-Diethylbenzene		0.865	0.931	1.027	1.036	1.156	1.180	1.177	1.053	11.83
103)	TP	n-Butylbenzene		1.269	1.296	1.411	1.406	1.576	1.616	1.625	1.457	10.25
104)	TP	1,2-Dichlorobe		0.840	0.865	0.924	0.929	1.036	1.041	1.048	0.955	9.13
105)	TP	1,2,4,5-Tetram		1.368	1.377	1.526	1.567	1.754	1.759	1.758	1.587	11.02
106)	TP	1,2-Dibromo-3-			0.030	0.049	0.051	0.059	0.058	0.061	*Q	0.9994
107)	TP	1,3,5-Trichlor		0.427	0.451	0.490	0.493	0.562	0.566	0.573	0.509	11.60
108)	TP	Hexachlorobuta		0.129	0.134	0.136	0.142	0.160	0.172	0.174	0.150	12.54
109)	TP	1,2,4-Trichlor		0.448	0.397	0.402	0.430	0.487	0.487	0.499	0.450	9.36
110)	TP	Naphthalene		1.297	0.867	0.851	0.900	1.033	0.998	1.036	0.998	15.33
111)	TP	1,2,3-Trichlor		0.365	0.307	0.308	0.328	0.372	0.367	0.377	0.346	9.00

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2019\191219N\
Method File : V122_191219N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri Dec 20 07:20:50 2019
Response Via : Initial Calibration

Calibration Files
L11 =V22191219N03.D L1 =V22191219N05.D L2 =V22191219N07.D L3 =V22191219N08.D L4 =V22191219N09.D
L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.144	0.173	0.189	0.184	0.168	0.176	0.171	0.172	8.43
3)	TP	Chloromethane		0.239	0.236	0.242	0.233	0.209	0.216	0.214	0.227	5.94
4)	TC	Vinyl chloride	0.224	0.221	0.276	0.281	0.276	0.249	0.257	0.255	0.255	9.04
5)	TP	Bromomethane	0.430	0.327	0.276	0.230	0.189	0.176			*Q	0.9975
6)	TP	Chloroethane		0.178	0.205	0.209	0.201	0.169	0.142		0.184	14.19
7)	TP	Trichlorofluor...		0.294	0.366	0.388	0.376	0.334	0.343	0.334	0.348	9.09
8)	TP	Ethyl ether		0.094	0.105	0.107	0.106	0.102	0.104	0.102	0.103	4.30
10)	TC	1,1-Dichloroet...		0.181	0.208	0.218	0.209	0.185	0.189	0.183	0.196	7.71
11)	TP	Carbon disulfide		0.496	0.561	0.561	0.528	0.468	0.490	0.480	0.512	7.45
12)	TP	Freon-113		0.183	0.228	0.240	0.229	0.205	0.212	0.207	0.215	8.98
13)	TP	Iodomethane			0.081	0.139	0.212	0.206	0.203	0.188	*Q	0.9983
14)	TP	Acrolein		0.024	0.028	0.030	0.032	0.030	0.033	0.032	0.030#	9.80
15)	TP	Methylene chlo...		0.216	0.237	0.235	0.225	0.209	0.217	0.215	0.222	4.65
17)	TP	Acetone		0.079	0.054	0.055	0.056	0.050	0.052	0.052	0.057#	17.81
18)	TP	trans-1,2-Dich...		0.191	0.232	0.230	0.221	0.196	0.204	0.200	0.211	7.96
19)	TP	Methyl acetate		0.110	0.115	0.094	0.088	0.090	0.096	0.095	0.098#	10.44
21)	TP	Methyl tert-bu...		0.479	0.509	0.510	0.481	0.432	0.439	0.410	0.466	8.44
22)	TP	tert-Butyl alc...		0.018	0.016	0.014	0.012	0.012	0.014	0.014	0.015#	14.63
24)	TP	Diisopropyl ether		0.610	0.671	0.677	0.673	0.639	0.664	0.655	0.655	3.64
25)	TP	1,1-Dichloroet...		0.357	0.460	0.454	0.441	0.412	0.428	0.411	0.423	8.26
26)	TP	Halothane		0.163	0.198	0.197	0.193	0.178	0.185	0.182	0.185	6.60
27)	TP	Acrylonitrile		0.047	0.055	0.053	0.055	0.052	0.054	0.053	0.053	5.63
28)	TP	Ethyl tert-but...		0.605	0.654	0.669	0.673	0.630	0.645	0.606	0.640	4.30
29)	TP	Vinyl acetate		0.278	0.380	0.338	0.346	0.371	0.406	0.409	0.361	12.60
30)	TP	cis-1,2-Dichlo...		0.240	0.288	0.282	0.271	0.244	0.252	0.245	0.260	7.56
31)	TP	2,2-Dichloropr...		0.248	0.340	0.265	0.200	0.209	0.228	0.222	0.244	19.38
32)	TP	Bromochloromet...		0.111	0.123	0.123	0.115	0.094	0.095	0.094	0.108	12.53
33)	TP	Cyclohexane		0.351	0.429	0.448	0.431	0.407	0.428	0.421	0.417	7.50
34)	TC	Chloroform		0.390	0.443	0.442	0.427	0.396	0.408	0.404	0.416	5.23
35)	TP	Ethyl acetate		0.166	0.148	0.151	0.153	0.147	0.154	0.151	0.153	4.07

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2019\191219N\
Method File : V122_191219N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri Dec 20 07:20:50 2019
Response Via : Initial Calibration

Calibration Files
L11 =V22191219N03.D L1 =V22191219N05.D L2 =V22191219N07.D L3 =V22191219N08.D L4 =V22191219N09.D
L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
36)	TP	Carbon tetrach...	0.292	0.309	0.380	0.391	0.376	0.352	0.370	0.362	0.354	10.01
37)	TP	Tetrahydrofuran		0.055	0.057	0.054	0.054	0.051	0.053	0.051	0.054	3.90
38)	S	Dibromofluorom...	0.287	0.299	0.298	0.290	0.290	0.284	0.283	0.279	0.289	2.42
39)	TP	1,1,1-Trichlor...		0.347	0.404	0.414	0.397	0.364	0.376	0.364	0.381	6.48
41)	TP	2-Butanone		0.096	0.075	0.069	0.066	0.063	0.066	0.064	0.071#	16.03
42)	TP	1,1-Dichloropr...		0.258	0.334	0.342	0.339	0.312	0.326	0.319	0.319	9.05
44)	TP	Benzene	0.817	0.801	0.948	0.954	0.935	0.873	0.900	0.873	0.888	6.53
45)	TP	tert-Amyl meth...		0.508	0.611	0.626	0.641	0.617	0.634	0.605	0.606	7.39
46)	S	1,2-Dichloroet...	0.354	0.361	0.356	0.313	0.316	0.319	0.322	0.329	0.334	5.93
47)	T	1,2-Dichloroet...		0.248	0.241	0.226	0.222	0.207	0.212	0.215	0.225	6.72
50)	TP	Methyl cyclohe...		0.334	0.420	0.469	0.457	0.439	0.459	0.451	0.433	10.67
51)	TP	Trichloroethene	0.228	0.227	0.260	0.265	0.267	0.247	0.257	0.257	0.251	6.36
53)	TP	Dibromomethane		0.135	0.138	0.139	0.138	0.131	0.133	0.126	0.134	3.58
54)	TC	1,2-Dichloropr...		0.220	0.240	0.248	0.247	0.232	0.239	0.236	0.237	3.92
56)	TP	2-Chloroethyl ...		0.103	0.122	0.123	0.112	0.090	0.080		0.105	16.46
57)	TP	Bromodichlorom...		0.276	0.308	0.330	0.335	0.318	0.329	0.322	0.317	6.34
60)	TP	1,4-Dioxane		0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002#	8.89
61)	TP	cis-1,3-Dichlo...		0.328	0.369	0.413	0.415	0.393	0.403	0.397	0.388	7.87
62)	I	Chlorobenzene-d5	----------ISTD----------									
63)	S	Toluene-d8	1.306	1.308	1.317	1.309	1.297	1.280	1.276	1.244	1.292	1.87
64)	TC	Toluene		0.640	0.764	0.756	0.741	0.705	0.724	0.703	0.719	5.86
65)	TP	4-Methyl-2-pen...		0.056	0.068	0.068	0.076	0.074	0.077	0.074	0.070#	10.54
66)	TP	Tetrachloroethene		0.327	0.371	0.379	0.372	0.345	0.356	0.343	0.356	5.30
68)	TP	trans-1,3-Dich...		0.344	0.398	0.408	0.407	0.389	0.394	0.373	0.388	5.81
70)	TP	Ethyl methacry...		0.222	0.252	0.265	0.277	0.277	0.284	0.274	0.265	8.20
71)	TP	1,1,2-Trichlor...		0.176	0.195	0.195	0.197	0.185	0.187	0.181	0.188	4.18
72)	TP	Chlorodibromom...		0.238	0.274	0.284	0.293	0.284	0.291	0.283	0.278	6.69
73)	TP	1,3-Dichloropr...		0.356	0.392	0.396	0.399	0.379	0.384	0.365	0.382	4.22
74)	TP	1,2-Dibromoethane		0.206	0.235	0.239	0.236	0.230	0.233	0.221	0.229	4.97
76)	TP	2-Hexanone		0.102	0.118	0.121	0.128	0.128	0.131	0.125	0.122	7.92
77)	TP	Chlorobenzene		0.768	0.829	0.848	0.835	0.786	0.805	0.785	0.808	3.71

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2019\191219N\
Method File : V122_191219N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri Dec 20 07:20:50 2019
Response Via : Initial Calibration

Calibration Files
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L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
78)	TC	Ethylbenzene		1.198	1.418	1.497	1.485	1.410	1.429	1.355	1.399	7.20
79)	TP	1,1,1,2-Tetrac...		0.237	0.308	0.315	0.317	0.301	0.305	0.293	0.297	9.25
80)	TP	p/m Xylene		0.462	0.572	0.590	0.598	0.569	0.584	0.568	0.563	8.21
81)	TP	o Xylene		0.436	0.521	0.549	0.558	0.544	0.560	0.544	0.530	8.24
82)	TP	Styrene		0.699	0.830	0.907	0.948	0.923	0.924	0.866	0.871	9.83
83)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
84)	TP	Bromoform		0.303	0.336	0.355	0.375	0.381	0.402	0.403	0.365	10.01
86)	TP	Isopropylbenzene		2.906	3.462	3.518	3.297	3.148	3.244	3.212	3.255	6.26
87)	S	4-Bromofluorob...	0.979	0.989	1.004	0.998	0.965	0.957	0.967	0.996	0.982	1.79
88)	TP	Bromobenzene		0.622	0.712	0.713	0.667	0.653	0.684	0.685	0.677	4.82
89)	TP	n-Propylbenzene		2.923	3.548	3.674	3.509	3.380	3.448	3.314	3.400	7.07
90)	TP	1,4-Dichlorobu...		0.683	0.746	0.727	0.724	0.709	0.745	0.739	0.725	3.12
91)	TP	1,1,2,2-Tetrac...		0.517	0.521	0.512	0.504	0.484	0.498	0.486	0.503	2.89
92)	TP	4-Ethyltoluene		2.263	2.762	2.887	2.733	2.604	2.674	2.601	2.646	7.40
93)	TP	2-Chlorotoluene		1.935	2.310	2.344	2.227	2.095	2.165	2.124	2.171	6.41
94)	TP	1,3,5-Trimethy...		1.992	2.376	2.480	2.381	2.281	2.349	2.321	2.311	6.66
95)	TP	1,2,3-Trichlor...		0.429	0.454	0.433	0.424	0.414	0.434	0.434	0.432	2.80
96)	TP	trans-1,4-Dich...		0.142	0.146	0.141	0.143	0.141	0.144	0.144	0.143	1.27
97)	TP	4-Chlorotoluene		1.770	2.063	2.115	2.018	1.923	1.980	1.934	1.972	5.68
98)	TP	tert-Butylbenzene		1.758	2.060	2.173	2.087	2.029	2.106	2.074	2.041	6.49
101)	TP	1,2,4-Trimethy...		1.930	2.252	2.364	2.308	2.252	2.314	2.251	2.239	6.36
102)	TP	sec-Butylbenzene		2.300	2.835	2.973	3.138	3.061	3.101	3.006	2.916	9.92
103)	TP	p-Isopropyltol...		1.991	2.390	2.564	2.750	2.682	2.717	2.633	2.532	10.55
104)	TP	1,3-Dichlorobe...		1.261	1.357	1.380	1.318	1.263	1.293	1.267	1.305	3.67
105)	TP	1,4-Dichlorobe...		1.240	1.370	1.361	1.286	1.237	1.257	1.244	1.285	4.47
106)	TP	p-Diethylbenzene		1.048	1.238	1.350	1.330	1.334	1.371	1.361	1.290	8.95
107)	TP	n-Butylbenzene		1.653	1.975	2.130	2.075	2.007	2.055	1.979	1.982	7.84
108)	TP	1,2-Dichlorobe...		1.065	1.216	1.217	1.175	1.137	1.174	1.138	1.160	4.58
109)	TP	1,2,4,5-Tetram...		1.428	1.677	1.760	1.741	1.768	1.843	1.860	1.725	8.40
110)	TP	1,2-Dibromo-3-...		0.078	0.088	0.085	0.088	0.089	0.096	0.095	0.088	7.12
111)	TP	1,3,5-Trichlor...		0.643	0.773	0.771	0.732	0.708	0.723	0.729	0.726	6.07

Method Path : I:\VOLATILES\VOA122\2019\191219N\
Method File : V122_191219N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri Dec 20 07:20:50 2019
Response Via : Initial Calibration

Calibration Files
L11 =V22191219N03.D L1 =V22191219N05.D L2 =V22191219N07.D L3 =V22191219N08.D L4 =V22191219N09.D
L6 =V22191219N10.D L8 =V22191219N11.D L10 =V22191219N12.D

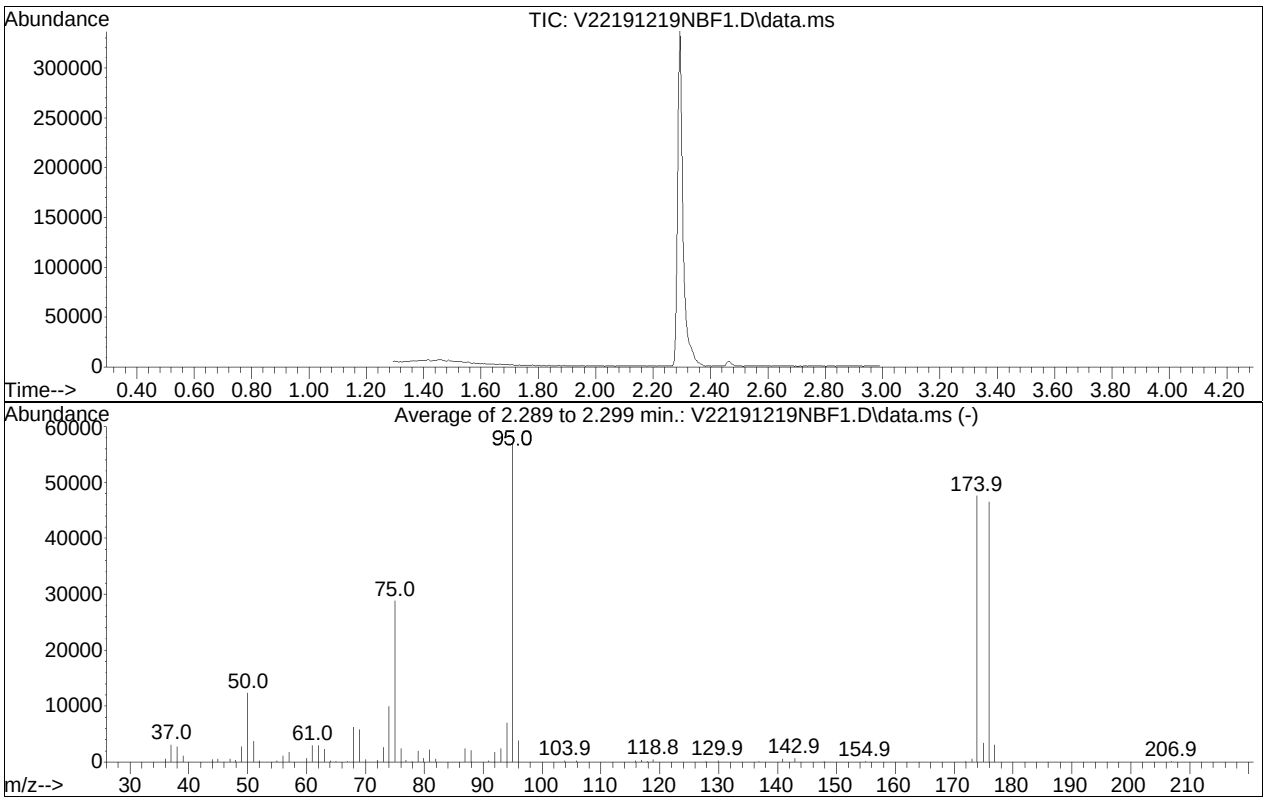
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
112) TP	Hexachlorobuta...	0.229	0.240	0.258	0.247	0.235	0.248	0.253	0.244		4.22
113) TP	1,2,4-Trichlor...	0.639	0.687	0.702	0.670	0.639	0.661	0.663	0.666		3.51
114) TP	Naphthalene	1.448	1.502	1.536	1.526	1.547	1.619	1.629	1.544		4.11
115) TP	1,2,3-Trichlor...	0.613	0.605	0.631	0.600	0.591	0.615	0.618	0.611		2.16

(#) = Out of Range

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219NBF1.D
Acq On : 19 Dec 2019 02:35 pm
Operator : VOA122:NLK
Sample : WG1323153-1
Misc : WG1323153
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri Dec 20 07:20:50 2019



AutoFind: Scans 191, 192, 193; Background Corrected with Scan 185

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	12339	PASS
75	95	30	60	50.3	28771	PASS
95	95	100	100	100.0	57152	PASS
96	95	5	9	6.6	3797	PASS
173	174	0.00	2	1.2	567	PASS
174	95	50	100	83.4	47648	PASS
175	174	5	9	7.3	3459	PASS
176	174	95	101	97.5	46467	PASS
177	176	5	9	6.7	3102	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N03.D
Acq On : 19 Dec 2019 03:43 pm
Operator : VOA122:NLK
Sample : I8260STDL0.2PPB
Misc : WG1323153
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 07:29:50 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-L11+BM - Level 11 for 8260-LRR plus BM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	338480	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 103.61%			
62) Chlorobenzene-d5	9.360	117	266409	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 100.70%			
83) 1,4-Dichlorobenzene-d4	12.107	152	132596	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 99.14%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	97227	9.945	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
46) 1,2-Dichloroethane-d4	5.549	65	119774	10.603	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.03%			
63) Toluene-d8	7.519	98	347907	10.108	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.08%			
87) 4-Bromofluorobenzene	10.874	95	129857	9.973	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.73%			
Target Compounds						Qvalue
4) Vinyl chloride	1.787	62	1515	0.176	ug/L	95
5) Bromomethane	2.084	94	2913M1	0.152	ug/L	
36) Carbon tetrachloride	4.979	117	1974	0.165	ug/L	93
44) Benzene	5.416	78	5529	0.184	ug/L #	89
51) Trichloroethene	6.009	95	1541	0.181	ug/L	90

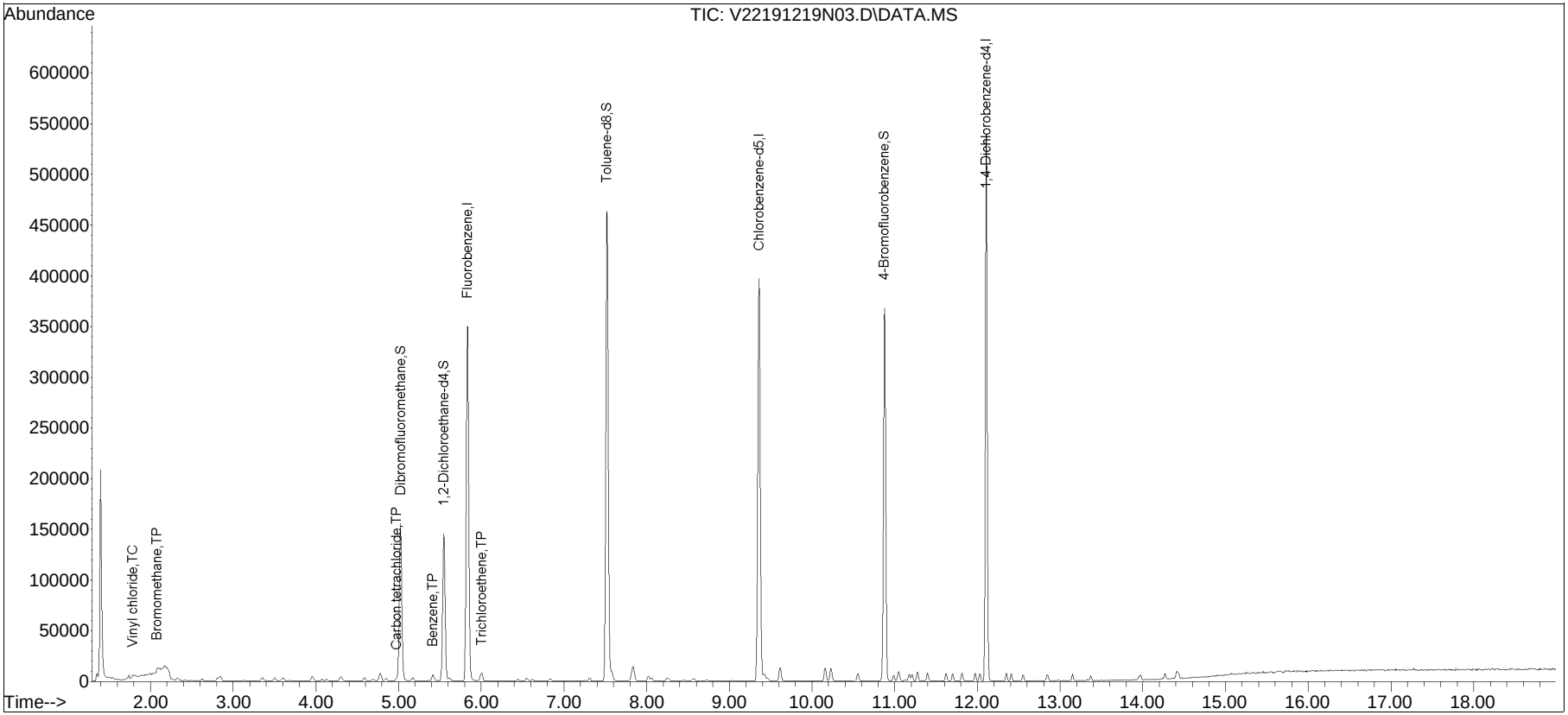
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N03.D
Acq On : 19 Dec 2019 03:43 pm
Operator : VOA122:NLK
Sample : I8260STDL0.2PPB
Misc : WG1323153
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 07:29:50 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

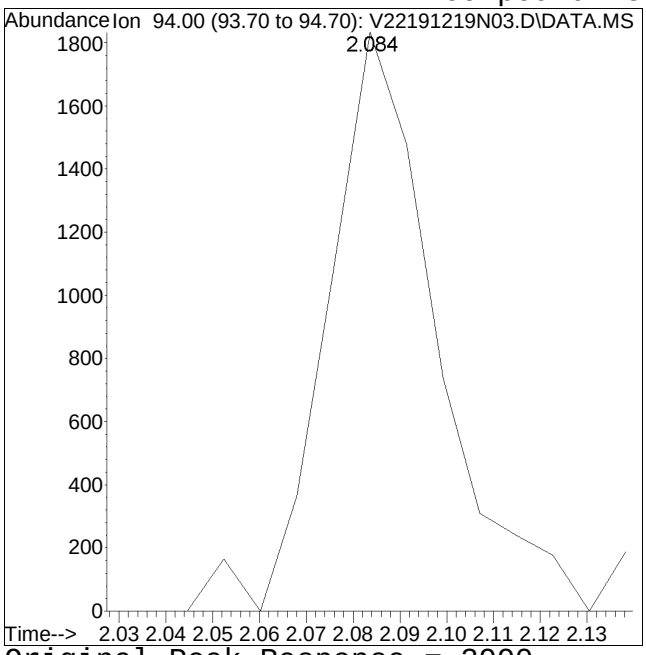
Sub List : 8260-L11+BM - Level 11 for 8260-LRR plus BM219N08.D•

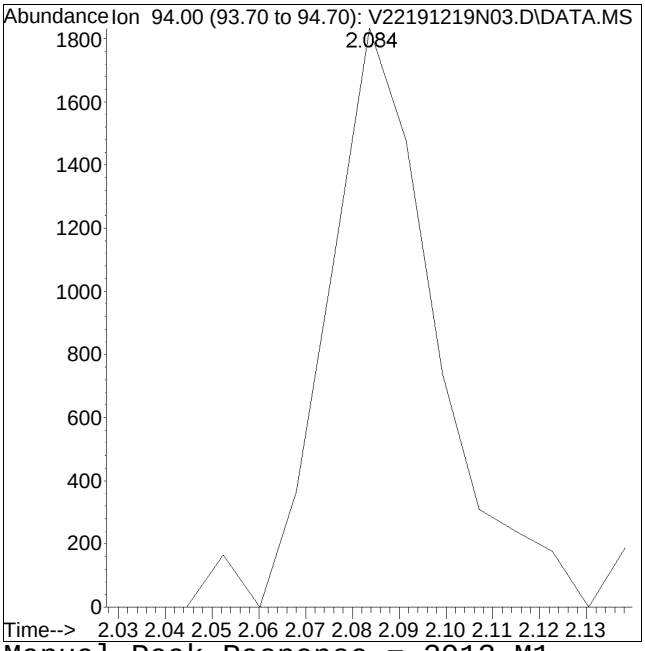


Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2019\1QMethod : V122_191219N_8260.m
Data File : V22191219N03.D Operator : VOA122:NLK
Date Inj'd : 12/19/2019 3:43 pm Instrument : VOA122
Sample : I8260STDL0.2PPB Quant Date : 12/20/2019 7:29 am

Compound #5: Bromomethane





Original Peak Response = 2990 Manual Peak Response = 2913 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N05.D
Acq On : 19 Dec 2019 04:33 pm
Operator : VOA122:NLK
Sample : I8260STDL0.5PPB
Misc : WG1323153
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 07:30:01 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	326319	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 99.89%			
62) Chlorobenzene-d5	9.360	117	265316	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 100.28%			
83) 1,4-Dichlorobenzene-d4	12.107	152	130429	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 97.52%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	97548	10.350	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.50%			
46) 1,2-Dichloroethane-d4	5.549	65	117790	10.816	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.16%			
63) Toluene-d8	7.519	98	347015	10.123	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%			
87) 4-Bromofluorobenzene	10.874	95	128953	10.069	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	2342	0.417	ug/L	89
3) Chloromethane	1.732	50	3906	0.527	ug/L	95
4) Vinyl chloride	1.787	62	3610	0.434	ug/L	100
5) Bromomethane	2.084	94	5338	0.517	ug/L	95
6) Chloroethane	2.193	64	2911	0.485	ug/L	86
7) Trichlorofluoromethane	2.326	101	4803	0.423	ug/L	98
8) Ethyl ether	2.622	74	1529	0.456	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	2954	0.462	ug/L	87
11) Carbon disulfide	2.833	76	8091	0.484	ug/L	98
12) Freon-113	2.848	101	2980	0.425	ug/L	96
13) Iodomethane	2.950	142	640	1.682	ug/L #	79
14) Acrolein	3.129	56	399	0.409	ug/L	95
15) Methylene chloride	3.356	84	3530	0.487	ug/L	79
17) Acetone	3.403	43	1295	0.697	ug/L #	57
18) trans-1,2-Dichloroethene	3.504	96	3121	0.454	ug/L	89
19) Methyl acetate	3.520	43	1800	0.561	ug/L #	67
21) Methyl tert-butyl ether	3.605	73	7810	0.514	ug/L #	80
22) tert-Butyl alcohol	3.691	59	1500	3.147	ug/L #	70
24) Diisopropyl ether	3.964	45	9954	0.465	ug/L	90
25) 1,1-Dichloroethane	4.082	63	5825	0.422	ug/L	92
26) Halothane	4.136	117	2665	0.441	ug/L	99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N05.D
Acq On : 19 Dec 2019 04:33 pm
Operator : VOA122:NLK
Sample : I8260STDL0.5PPB
Misc : WG1323153
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 07:30:01 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	759	0.440	ug/L		91
28) Ethyl tert-butyl ether	4.300	59	9875	0.473	ug/L		88
29) Vinyl acetate	4.316	43	4540	0.385	ug/L	#	77
30) cis-1,2-Dichloroethene	4.589	96	3923	0.462	ug/L	#	82
31) 2,2-Dichloropropane	4.690	77	4046	0.507	ug/L	#	80
32) Bromochloromethane	4.776	128	1810	0.514	ug/L	#	78
33) Cyclohexane	4.784	56	5733	0.422	ug/L		81
34) Chloroform	4.854	83	6361	0.469	ug/L		95
35) Ethyl acetate	4.971	43	2703	0.542	ug/L	#	80
36) Carbon tetrachloride	4.987	117	5037	0.436	ug/L		97
37) Tetrahydrofuran	5.002	42	893	0.510	ug/L	#	75
39) 1,1,1-Trichloroethane	5.049	97	5661	0.456	ug/L		94
41) 2-Butanone	5.151	43	1562	0.671	ug/L	#	50
42) 1,1-Dichloropropene	5.174	75	4207	0.405	ug/L		98
44) Benzene	5.416	78	13063	0.451	ug/L		96
45) tert-Amyl methyl ether	5.533	73	8294	0.420	ug/L		95
47) 1,2-Dichloroethane	5.620	62	4051	0.553	ug/L		94
50) Methyl cyclohexane	6.000	83	5456	0.386	ug/L	#	73
51) Trichloroethene	6.009	95	3696	0.451	ug/L		96
53) Dibromomethane	6.441	93	2206	0.504	ug/L	#	77
54) 1,2-Dichloropropane	6.554	63	3597	0.464	ug/L		97
56) 2-Chloroethyl vinyl ether	7.245	63	1687	0.493	ug/L	#	82
57) Bromodichloromethane	6.614	83	4500	0.435	ug/L	#	95
60) 1,4-Dioxane	6.839	88	5202	102.098	ug/L	#	82
61) cis-1,3-Dichloropropene	7.315	75	5358	0.423	ug/L	#	88
64) Toluene	7.581	92	8488	0.445	ug/L		99
65) 4-Methyl-2-pentanone	8.026	58	738	0.395	ug/L	#	42
66) Tetrachloroethene	8.026	166	4337	0.459	ug/L		94
68) trans-1,3-Dichloropropene	8.057	75	4567	0.444	ug/L		87
70) Ethyl methacrylate	8.260	69	2941	0.419	ug/L		87
71) 1,1,2-Trichloroethane	8.237	83	2340	0.469	ug/L		89
72) Chlorodibromomethane	8.440	129	3162	0.428	ug/L		98
73) 1,3-Dichloropropane	8.565	76	4729	0.467	ug/L		98
74) 1,2-Dibromoethane	8.721	107	2738	0.451	ug/L		96
76) 2-Hexanone	9.033	43	1358	0.421	ug/L	#	81
77) Chlorobenzene	9.384	112	10187	0.475	ug/L	#	88
78) Ethylbenzene	9.423	91	15892	0.428	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.462	131	3148	0.400	ug/L	#	58
80) p/m Xylene	9.610	106	12245	0.819	ug/L		95
81) o Xylene	10.156	106	11555	0.821	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N05.D
Acq On : 19 Dec 2019 04:33 pm
Operator : VOA122:NLK
Sample : I8260STDL0.5PPB
Misc : WG1323153
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 07:30:01 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.227	104	18537	0.802	ug/L		95
84) Bromoform	10.234	173	1973	0.414	ug/L		92
86) Isopropylbenzene	10.554	105	18949	0.446	ug/L		93
88) Bromobenzene	10.991	156	4054	0.459	ug/L		97
89) n-Propylbenzene	11.046	91	19062	0.430	ug/L		97
90) 1,4-Dichlorobutane	11.062	55	4451	0.471	ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.124	83	3370	0.514	ug/L		92
92) 4-Ethyltoluene	11.179	105	14760	0.428	ug/L		99
93) 2-Chlorotoluene	11.210	91	12618	0.446	ug/L		97
94) 1,3,5-Trimethylbenzene	11.280	105	12991	0.431	ug/L		98
95) 1,2,3-Trichloropropane	11.265	75	2795	0.497	ug/L		92
96) trans-1,4-Dichloro-2-b...	11.327	53	927	0.497	ug/L	#	73
97) 4-Chlorotoluene	11.397	91	11546	0.449	ug/L		98
98) tert-Butylbenzene	11.624	119	11464	0.431	ug/L		95
101) 1,2,4-Trimethylbenzene	11.702	105	12588	0.431	ug/L		96
102) sec-Butylbenzene	11.811	105	14999	0.394	ug/L		93
103) p-Isopropyltoluene	11.974	119	12983	0.393	ug/L		97
104) 1,3-Dichlorobenzene	12.030	146	8222	0.483	ug/L		95
105) 1,4-Dichlorobenzene	12.121	146	8089M3	0.483	ug/L		
106) p-Diethylbenzene	12.350	119	6834	0.406	ug/L		96
107) n-Butylbenzene	12.406	91	10780	0.417	ug/L		98
108) 1,2-Dichlorobenzene	12.552	146	6944	0.459	ug/L		98
109) 1,2,4,5-Tetramethylben...	13.151	119	9313	0.414	ug/L		96
110) 1,2-Dibromo-3-chloropr...	13.332	155	506	0.439	ug/L		90
111) 1,3,5-Trichlorobenzene	13.367	180	4191	0.443	ug/L		91
112) Hexachlorobutadiene	13.951	225	1491	0.468	ug/L		94
113) 1,2,4-Trichlorobenzene	13.972	180	4164	0.480	ug/L		96
114) Naphthalene	14.265	128	9442	0.469	ug/L		100
115) 1,2,3-Trichlorobenzene	14.432	180	3999	0.502	ug/L		97

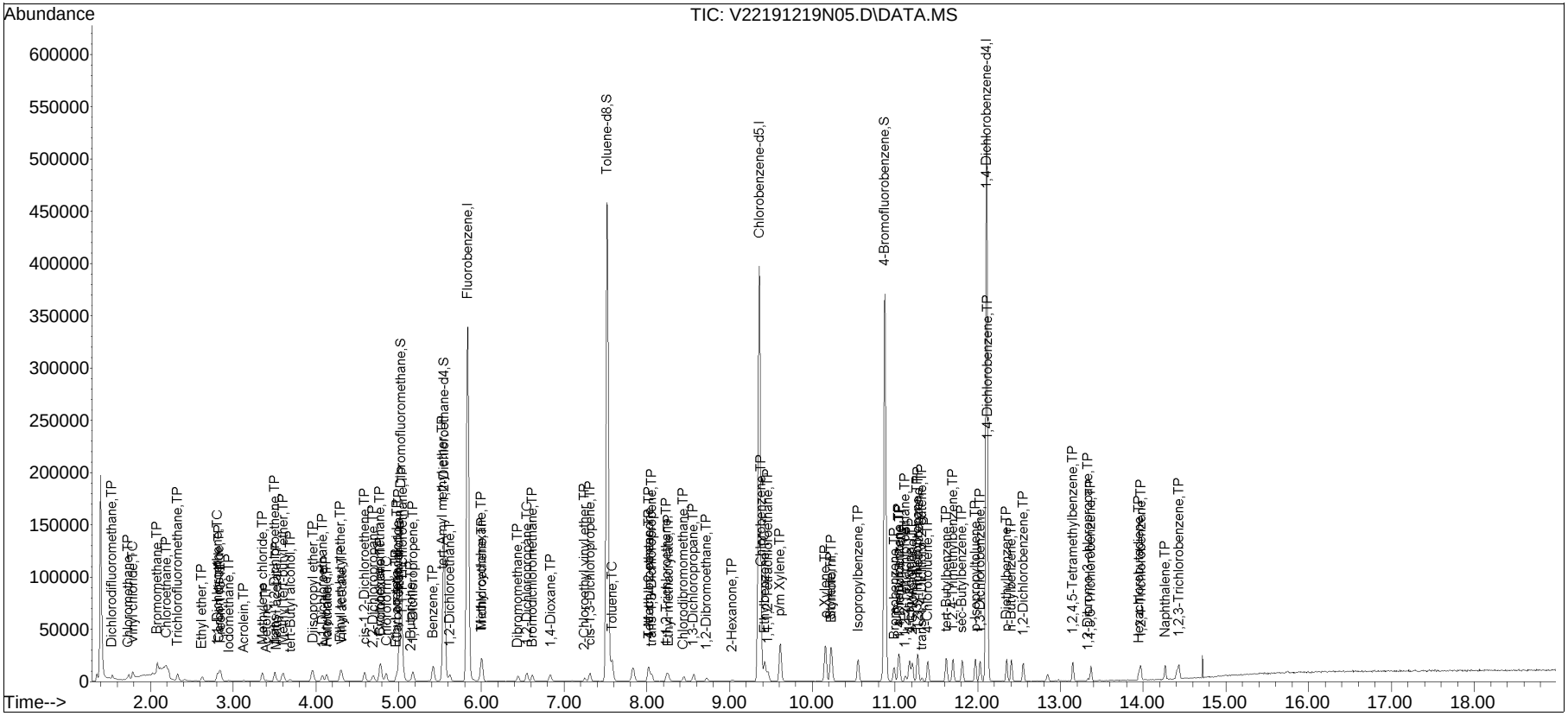
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N05.D
Acq On : 19 Dec 2019 04:33 pm
Operator : VOA122:NLK
Sample : I8260STDL0.5PPB
Misc : WG1323153
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 07:30:01 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

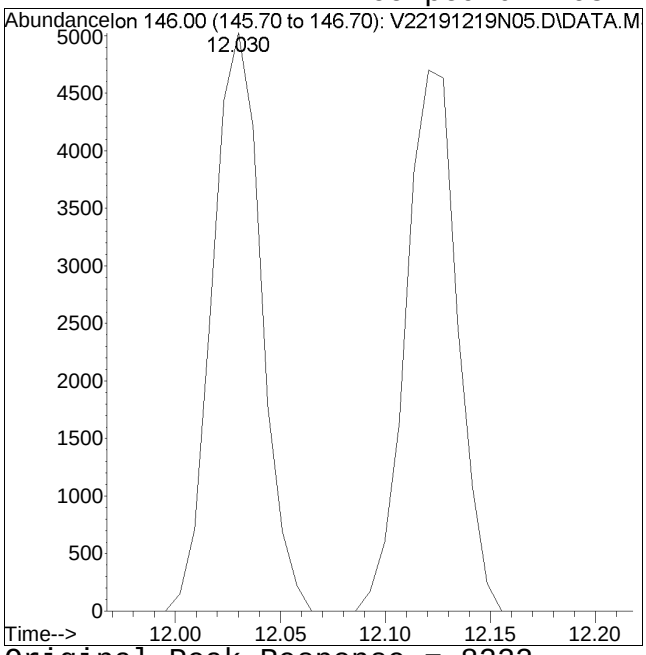
Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•

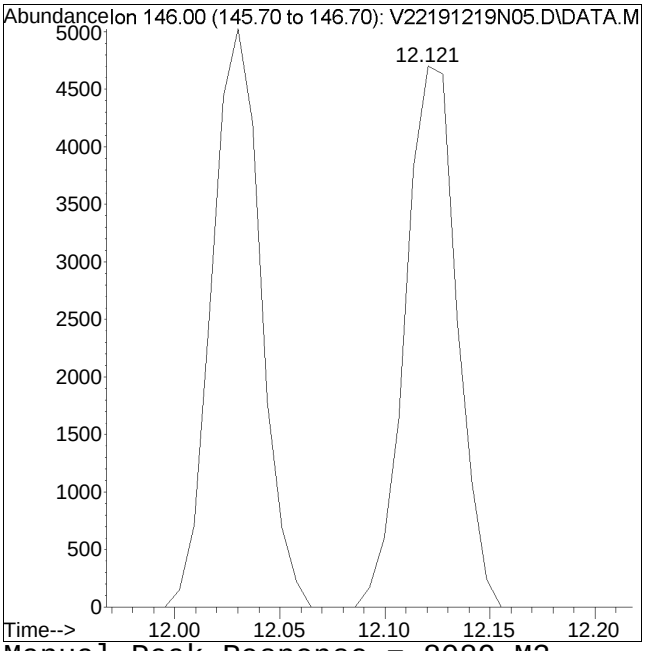


Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2019\1QMethod : V122_191219N_8260.m
Data File : V22191219N05.D Operator : VOA122:NLK
Date Inj'd : 12/19/2019 4:33 pm Instrument : VOA122
Sample : I8260STDL0.5PPB Quant Date : 12/20/2019 7:29 am

Compound #105: 1,4-Dichlorobenzene





Original Peak Response = 8222 Manual Peak Response = 8089 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N07.D
Acq On : 19 Dec 2019 05:23 pm
Operator : VOA122:NLK
Sample : I8260STDL2PPB
Misc : WG1323153
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 07:30:11 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	329256	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 100.79%			
62) Chlorobenzene-d5	9.360	117	262047	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 99.05%			
83) 1,4-Dichlorobenzene-d4	12.107	152	127597	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 95.40%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	98190	10.325	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.25%			
46) 1,2-Dichloroethane-d4	5.549	65	117183	10.664	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.64%			
63) Toluene-d8	7.519	98	345140	10.194	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.94%			
87) 4-Bromofluorobenzene	10.874	95	128144	10.228	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	11381	2.009	ug/L #	94
3) Chloromethane	1.732	50	15528	2.076	ug/L	97
4) Vinyl chloride	1.787	62	18178	2.165	ug/L	96
5) Bromomethane	2.084	94	18192	2.357	ug/L	96
6) Chloroethane	2.193	64	13503	2.229	ug/L	99
7) Trichlorofluoromethane	2.333	101	24076	2.102	ug/L	97
8) Ethyl ether	2.630	74	6894	2.037	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	13702	2.123	ug/L	85
11) Carbon disulfide	2.841	76	36952	2.192	ug/L	98
12) Freon-113	2.849	101	15031	2.124	ug/L	97
13) Iodomethane	2.942	142	5325	2.325	ug/L	93
14) Acrolein	3.129	56	1845	1.874	ug/L	84
15) Methylene chloride	3.348	84	15587	2.131	ug/L	81
17) Acetone	3.403	43	3561	1.899	ug/L	94
18) trans-1,2-Dichloroethene	3.504	96	15271	2.202	ug/L	89
19) Methyl acetate	3.512	43	7567	2.338	ug/L #	91
21) Methyl tert-butyl ether	3.606	73	33540	2.187	ug/L #	90
22) tert-Butyl alcohol	3.684	59	5391	11.209	ug/L #	90
24) Diisopropyl ether	3.957	45	44181	2.047	ug/L	94
25) 1,1-Dichloroethane	4.082	63	30317	2.175	ug/L	97
26) Halothane	4.128	117	13012	2.135	ug/L	96

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N07.D
Acq On : 19 Dec 2019 05:23 pm
Operator : VOA122:NLK
Sample : I8260STDL2PPB
Misc : WG1323153
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 07:30:11 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.121	53	3650	2.099	ug/L		97
28) Ethyl tert-butyl ether	4.300	59	43050	2.042	ug/L		95
29) Vinyl acetate	4.316	43	24992	2.102	ug/L	#	91
30) cis-1,2-Dichloroethene	4.589	96	18942	2.211	ug/L		90
31) 2,2-Dichloropropane	4.698	77	22362	2.778	ug/L		91
32) Bromochloromethane	4.776	128	8115	2.284	ug/L	#	83
33) Cyclohexane	4.784	56	28264	2.060	ug/L		81
34) Chloroform	4.846	83	29189	2.133	ug/L	#	96
35) Ethyl acetate	4.971	43	9736	1.934	ug/L	#	94
36) Carbon tetrachloride	4.987	117	25020	2.147	ug/L	#	95
37) Tetrahydrofuran	5.010	42	3770	2.136	ug/L	#	86
39) 1,1,1-Trichloroethane	5.057	97	26629	2.124	ug/L		95
41) 2-Butanone	5.151	43	4951	2.107	ug/L	#	75
42) 1,1-Dichloropropene	5.174	75	22015	2.098	ug/L		98
44) Benzene	5.416	78	62418	2.136	ug/L		95
45) tert-Amyl methyl ether	5.533	73	40218	2.016	ug/L		94
47) 1,2-Dichloroethane	5.620	62	15869	2.146	ug/L		98
50) Methyl cyclohexane	6.000	83	27646	1.940	ug/L		84
51) Trichloroethene	6.009	95	17140	2.073	ug/L		95
53) Dibromomethane	6.441	93	9058	2.049	ug/L	#	84
54) 1,2-Dichloropropane	6.554	63	15802	2.022	ug/L		98
56) 2-Chloroethyl vinyl ether	7.246	63	8010	2.319	ug/L		93
57) Bromodichloromethane	6.614	83	20313	1.947	ug/L		98
60) 1,4-Dioxane	6.830	88	17255	335.639	ug/L	#	81
61) cis-1,3-Dichloropropene	7.306	75	24319	1.901	ug/L	#	89
64) Toluene	7.582	92	40038	2.125	ug/L		97
65) 4-Methyl-2-pentanone	8.026	58	3566	1.932	ug/L		81
66) Tetrachloroethene	8.018	166	19466	2.086	ug/L		93
68) trans-1,3-Dichloropropene	8.057	75	20863	2.054	ug/L		87
70) Ethyl methacrylate	8.260	69	13185	1.902	ug/L		95
71) 1,1,2-Trichloroethane	8.245	83	10222	2.073	ug/L		94
72) Chlorodibromomethane	8.448	129	14385	1.973	ug/L		97
73) 1,3-Dichloropropane	8.565	76	20539	2.054	ug/L		100
74) 1,2-Dibromoethane	8.728	107	12300	2.053	ug/L		97
76) 2-Hexanone	9.033	43	6170	1.934	ug/L	#	91
77) Chlorobenzene	9.376	112	43471	2.053	ug/L		97
78) Ethylbenzene	9.423	91	74322	2.027	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.462	131	16162	2.079	ug/L		92
80) p/m Xylene	9.610	106	59978	4.064	ug/L		99
81) o Xylene	10.156	106	54612	3.931	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N07.D
Acq On : 19 Dec 2019 05:23 pm
Operator : VOA122:NLK
Sample : I8260STDL2PPB
Misc : WG1323153
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 07:30:11 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.227	104	87021	3.814	ug/L	98
84) Bromoform	10.242	173	8566	1.839	ug/L	98
86) Isopropylbenzene	10.554	105	88342	2.127	ug/L	99
88) Bromobenzene	10.991	156	18175	2.105	ug/L	100
89) n-Propylbenzene	11.046	91	90534	2.087	ug/L	98
90) 1,4-Dichlorobutane	11.054	55	19027	2.058	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.124	83	13297	2.071	ug/L	99
92) 4-Ethyltoluene	11.171	105	70494	2.088	ug/L	100
93) 2-Chlorotoluene	11.210	91	58957	2.128	ug/L	99
94) 1,3,5-Trimethylbenzene	11.273	105	60632	2.056	ug/L	98
95) 1,2,3-Trichloropropane	11.265	75	11579	2.103	ug/L	95
96) trans-1,4-Dichloro-2-b...	11.327	53	3726	2.041	ug/L	83
97) 4-Chlorotoluene	11.397	91	52651	2.093	ug/L	98
98) tert-Butylbenzene	11.624	119	52571	2.019	ug/L	99
101) 1,2,4-Trimethylbenzene	11.702	105	57467	2.012	ug/L	99
102) sec-Butylbenzene	11.811	105	72346	1.944	ug/L	100
103) p-Isopropyltoluene	11.974	119	60999	1.888	ug/L	98
104) 1,3-Dichlorobenzene	12.030	146	34624	2.079	ug/L	100
105) 1,4-Dichlorobenzene	12.121	146	34972	2.133	ug/L	95
106) p-Diethylbenzene	12.350	119	31592	1.919	ug/L	100
107) n-Butylbenzene	12.406	91	50407	1.993	ug/L	98
108) 1,2-Dichlorobenzene	12.552	146	31040	2.096	ug/L	97
109) 1,2,4,5-Tetramethylben...	13.151	119	42802	1.944	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.332	155	2258	2.001	ug/L	93
111) 1,3,5-Trichlorobenzene	13.367	180	19737	2.132	ug/L	94
112) Hexachlorobutadiene	13.951	225	6137	1.969	ug/L	99
113) 1,2,4-Trichlorobenzene	13.972	180	17535	2.064	ug/L	98
114) Naphthalene	14.265	128	38337	1.946	ug/L	100
115) 1,2,3-Trichlorobenzene	14.432	180	15450	1.983	ug/L	97

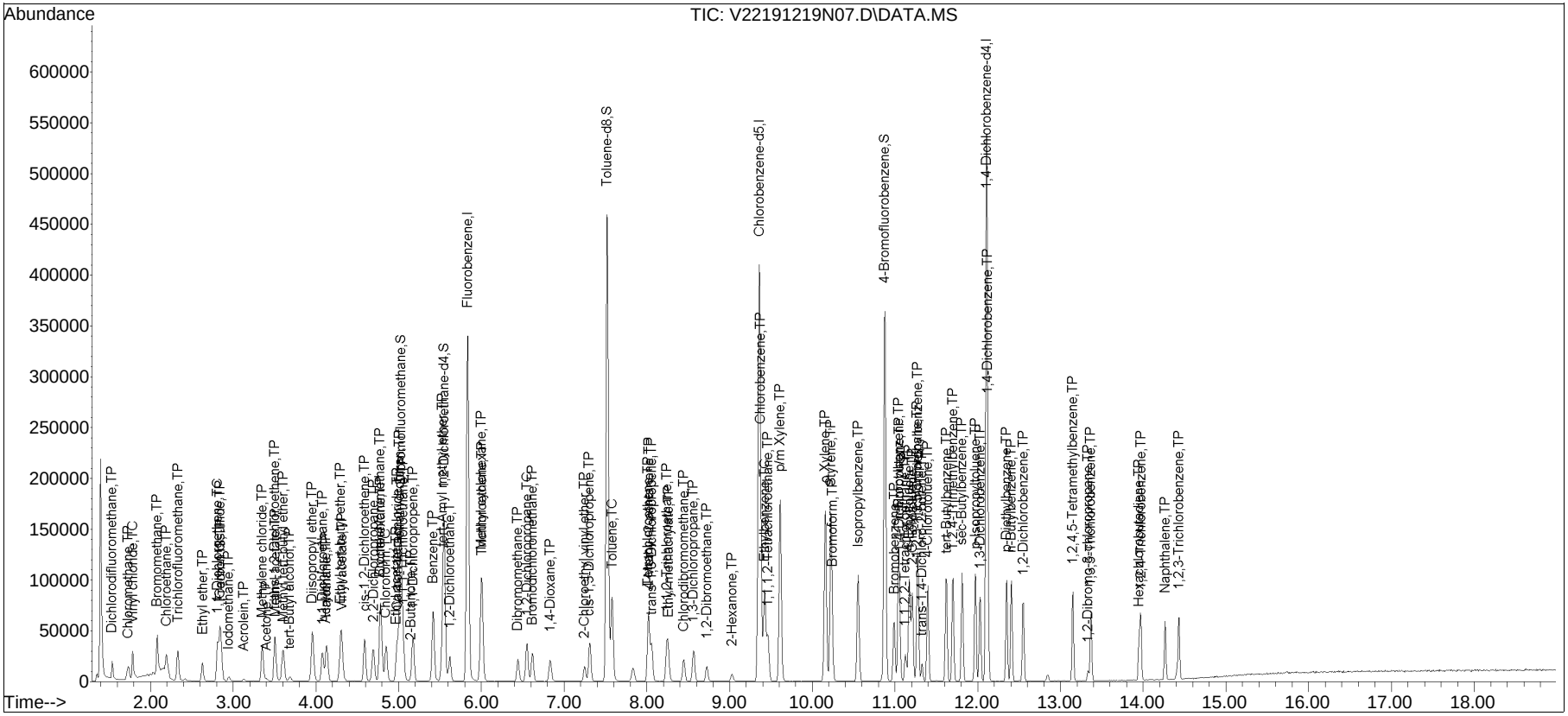
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N07.D
Acq On : 19 Dec 2019 05:23 pm
Operator : VOA122:NLK
Sample : I8260STDL2PPB
Misc : WG1323153
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 07:30:11 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1	QMethod	: V122_191219N_8260.m
Data File	: V22191219N07.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 5:23 pm	Instrument	: VOA122
Sample	: I8260STDL2PPB	Quant Date	: 12/20/2019 7:30 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N08.D
Acq On : 19 Dec 2019 05:48 pm
Operator : VOA122:NLK
Sample : I8260STDL10PPB
Misc : WG1323153
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 07:30:21 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	326684	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 100.00%			
62) Chlorobenzene-d5	9.360	117	264570	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.107	152	133749	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	94645	10.030	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.30%			
46) 1,2-Dichloroethane-d4	5.549	65	102413	9.393	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.93%			
63) Toluene-d8	7.519	98	346274	10.130	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.30%			
87) 4-Bromofluorobenzene	10.874	95	133508	10.166	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	61693	10.978	ug/L	98
3) Chloromethane	1.732	50	79068	10.654	ug/L	98
4) Vinyl chloride	1.787	62	91786	11.017	ug/L	97
5) Bromomethane	2.084	94	75016	10.807	ug/L	97
6) Chloroethane	2.193	64	68327	11.366	ug/L	99
7) Trichlorofluoromethane	2.333	101	126713	11.150	ug/L	100
8) Ethyl ether	2.630	74	34922	10.400	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	71170	11.112	ug/L	84
11) Carbon disulfide	2.841	76	183138	10.951	ug/L	98
12) Freon-113	2.848	101	78415	11.169	ug/L	98
13) Iodomethane	2.950	142	45506	7.921	ug/L	94
14) Acrolein	3.129	56	9702	9.929	ug/L	91
15) Methylene chloride	3.356	84	76627	10.561	ug/L	83
17) Acetone	3.403	43	18105	9.729	ug/L	99
18) trans-1,2-Dichloroethene	3.504	96	75264	10.937	ug/L	89
19) Methyl acetate	3.520	43	30610	9.534	ug/L	97
21) Methyl tert-butyl ether	3.605	73	166724	10.956	ug/L	92
22) tert-Butyl alcohol	3.683	59	23486	49.216	ug/L #	91
24) Diisopropyl ether	3.957	45	221158	10.328	ug/L	93
25) 1,1-Dichloroethane	4.082	63	148292	10.724	ug/L	98
26) Halothane	4.128	117	64328	10.638	ug/L	99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N08.D
Acq On : 19 Dec 2019 05:48 pm
Operator : VOA122:NLK
Sample : I8260STDL10PPB
Misc : WG1323153
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 07:30:21 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	17376	10.072	ug/L		92
28) Ethyl tert-butyl ether	4.300	59	218516	10.448	ug/L		91
29) Vinyl acetate	4.316	43	110386	9.358	ug/L	#	93
30) cis-1,2-Dichloroethene	4.589	96	92108	10.837	ug/L		89
31) 2,2-Dichloropropane	4.690	77	86423	10.820	ug/L		90
32) Bromochloromethane	4.776	128	40332	11.442	ug/L	#	86
33) Cyclohexane	4.784	56	146302	10.748	ug/L		88
34) Chloroform	4.846	83	144360	10.632	ug/L		96
35) Ethyl acetate	4.971	43	49475	9.904	ug/L		97
36) Carbon tetrachloride	4.987	117	127675	11.044	ug/L		98
37) Tetrahydrofuran	5.002	42	17535	10.012	ug/L		93
39) 1,1,1-Trichloroethane	5.057	97	135183	10.867	ug/L		95
41) 2-Butanone	5.151	43	22495	9.647	ug/L	#	83
42) 1,1-Dichloropropene	5.174	75	111619	10.722	ug/L		98
44) Benzene	5.416	78	311780	10.753	ug/L		96
45) tert-Amyl methyl ether	5.533	73	204351	10.326	ug/L		95
47) 1,2-Dichloroethane	5.620	62	73721	10.047	ug/L		98
50) Methyl cyclohexane	6.000	83	153062	10.828	ug/L		86
51) Trichloroethene	6.009	95	86702	10.569	ug/L		98
53) Dibromomethane	6.441	93	45572	10.391	ug/L		86
54) 1,2-Dichloropropane	6.554	63	80870	10.427	ug/L		98
56) 2-Chloroethyl vinyl ether	7.245	63	40118	11.704	ug/L		95
57) Bromodichloromethane	6.614	83	107876	10.424	ug/L		100
60) 1,4-Dioxane	6.830	88	23420	459.145	ug/L	#	74
61) cis-1,3-Dichloropropene	7.315	75	134928	10.631	ug/L	#	89
64) Toluene	7.581	92	200092	10.520	ug/L		99
65) 4-Methyl-2-pentanone	8.018	58	18039	9.680	ug/L		83
66) Tetrachloroethene	8.018	166	100200	10.635	ug/L		93
68) trans-1,3-Dichloropropene	8.057	75	107859	10.518	ug/L		89
70) Ethyl methacrylate	8.260	69	70116	10.019	ug/L		97
71) 1,1,2-Trichloroethane	8.245	83	51723	10.390	ug/L		97
72) Chlorodibromomethane	8.447	129	75155	10.209	ug/L		98
73) 1,3-Dichloropropane	8.565	76	104798	10.379	ug/L		99
74) 1,2-Dibromoethane	8.721	107	63330	10.469	ug/L		99
76) 2-Hexanone	9.025	43	31962	9.925	ug/L		95
77) Chlorobenzene	9.376	112	224297	10.493	ug/L		98
78) Ethylbenzene	9.423	91	396150	10.703	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.462	131	83412	10.629	ug/L		97
80) p/m Xylene	9.610	106	312191	20.950	ug/L		98
81) o Xylene	10.156	106	290374	20.699	ug/L		95

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N08.D
Acq On : 19 Dec 2019 05:48 pm
Operator : VOA122:NLK
Sample : I8260STDL10PPB
Misc : WG1323153
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 07:30:21 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.226	104	479684	20.822	ug/L	97
84) Bromoform	10.234	173	47544	9.739	ug/L	100
86) Isopropylbenzene	10.554	105	470467	10.806	ug/L	100
88) Bromobenzene	10.991	156	95417	10.541	ug/L	98
89) n-Propylbenzene	11.046	91	491380	10.807	ug/L	99
90) 1,4-Dichlorobutane	11.054	55	97266	10.036	ug/L	97
91) 1,1,2,2-Tetrachloroethane	11.124	83	68489	10.179	ug/L	99
92) 4-Ethyltoluene	11.171	105	386078	10.908	ug/L	100
93) 2-Chlorotoluene	11.210	91	313479	10.794	ug/L	100
94) 1,3,5-Trimethylbenzene	11.272	105	331729	10.730	ug/L	99
95) 1,2,3-Trichloropropane	11.272	75	57912	10.034	ug/L	98
96) trans-1,4-Dichloro-2-b...	11.327	53	18917	9.886	ug/L	82
97) 4-Chlorotoluene	11.397	91	282848	10.725	ug/L	100
98) tert-Butylbenzene	11.624	119	290594	10.646	ug/L	98
101) 1,2,4-Trimethylbenzene	11.702	105	316173	10.559	ug/L	99
102) sec-Butylbenzene	11.811	105	397612	10.194	ug/L	100
103) p-Isopropyltoluene	11.974	119	342939	10.125	ug/L	98
104) 1,3-Dichlorobenzene	12.030	146	184563	10.571	ug/L	98
105) 1,4-Dichlorobenzene	12.121	146	182065	10.592	ug/L	98
106) p-Diethylbenzene	12.350	119	180589	10.464	ug/L	99
107) n-Butylbenzene	12.406	91	284903	10.747	ug/L	98
108) 1,2-Dichlorobenzene	12.552	146	162801	10.490	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.151	119	235408	10.201	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.332	155	11319	9.570	ug/L	99
111) 1,3,5-Trichlorobenzene	13.367	180	103142	10.628	ug/L	96
112) Hexachlorobutadiene	13.951	225	34513	10.565	ug/L	97
113) 1,2,4-Trichlorobenzene	13.972	180	93901	10.545	ug/L	99
114) Naphthalene	14.264	128	205482	9.951	ug/L	100
115) 1,2,3-Trichlorobenzene	14.432	180	84414	10.337	ug/L	99

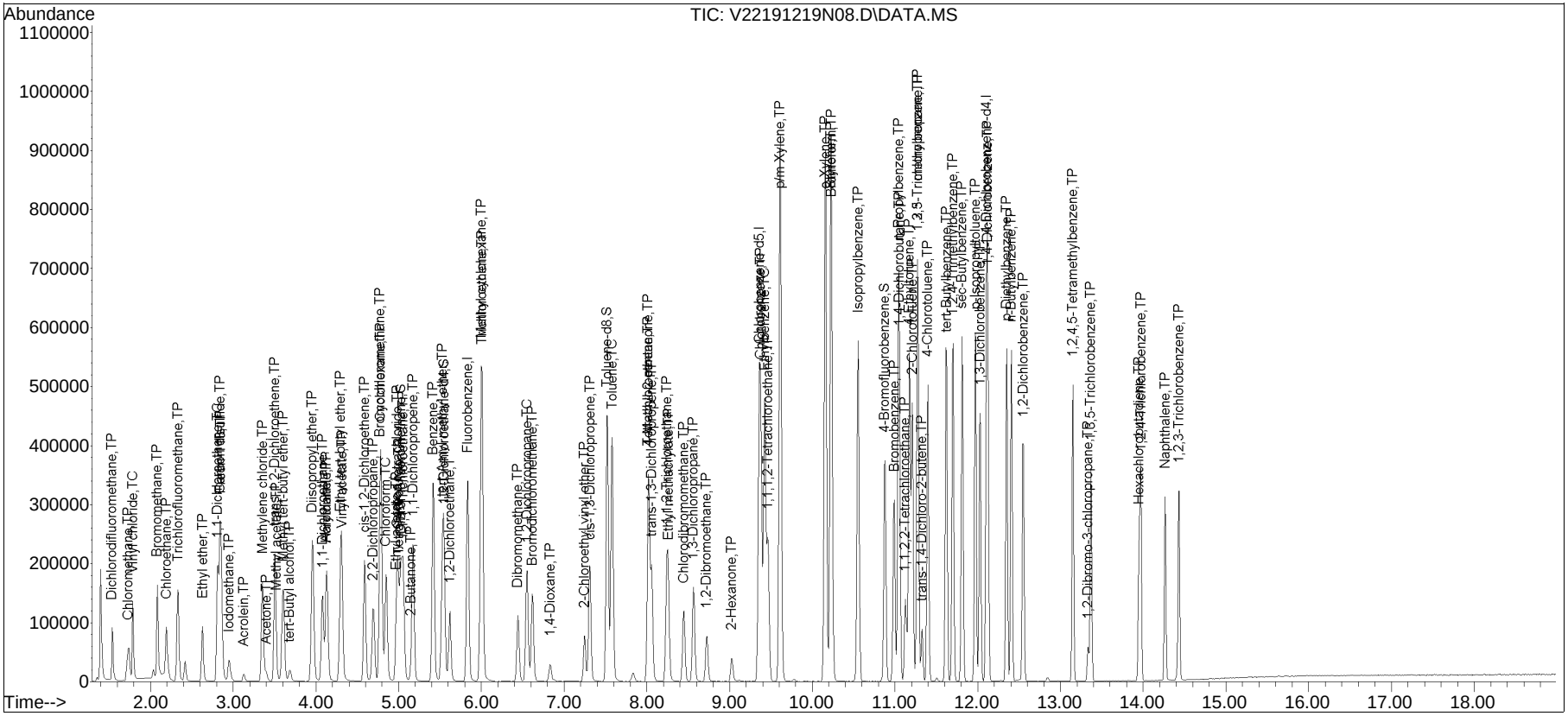
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N08.D
Acq On : 19 Dec 2019 05:48 pm
Operator : VOA122:NLK
Sample : I8260STDL10PPB
Misc : WG1323153
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 07:30:21 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1Q	Method	: V122_191219N_8260.m
Data File	: V22191219N08.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 5:48 pm	Instrument	: VOA122
Sample	: I8260STDL10PPB	Quant Date	: 12/20/2019 7:30 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N09.D
Acq On : 19 Dec 2019 06:12 pm
Operator : VOA122:NLK
Sample : I8260STDL30PPB
Misc : WG1323153
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 07:30:30 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	329987	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 101.01%			
62) Chlorobenzene-d5	9.360	117	271947	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 102.79%			
83) 1,4-Dichlorobenzene-d4	12.107	152	146001	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 109.16%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	95752	10.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.46%			
46) 1,2-Dichloroethane-d4	5.549	65	104358	9.476	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.76%			
63) Toluene-d8	7.519	98	352646	10.037	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
87) 4-Bromofluorobenzene	10.874	95	140906	9.828	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	181737	32.016	ug/L	97
3) Chloromethane	1.732	50	231005	30.816	ug/L	99
4) Vinyl chloride	1.787	62	273580	32.510	ug/L	98
5) Bromomethane	2.084	94	186845	28.180	ug/L	98
6) Chloroethane	2.185	64	198906	32.757	ug/L	99
7) Trichlorofluoromethane	2.333	101	372444	32.446	ug/L	100
8) Ethyl ether	2.630	74	105070	30.978	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	206919	31.983	ug/L	82
11) Carbon disulfide	2.841	76	522273	30.918	ug/L	99
12) Freon-113	2.848	101	227193	32.036	ug/L	96
13) Iodomethane	2.950	142	210149	30.999	ug/L	94
14) Acrolein	3.129	56	31929	32.351	ug/L	99
15) Methylene chloride	3.356	84	222727	30.389	ug/L	82
17) Acetone	3.395	43	55748	29.658	ug/L	97
18) trans-1,2-Dichloroethene	3.504	96	218580	31.446	ug/L	90
19) Methyl acetate	3.512	43	86829	26.773	ug/L	96
21) Methyl tert-butyl ether	3.606	73	476658	31.010	ug/L	93
22) tert-Butyl alcohol	3.684	59	61303	127.178	ug/L #	93
24) Diisopropyl ether	3.957	45	666218	30.802	ug/L	94
25) 1,1-Dichloroethane	4.082	63	436535	31.252	ug/L	97
26) Halothane	4.128	117	191075	31.283	ug/L	99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N09.D
Acq On : 19 Dec 2019 06:12 pm
Operator : VOA122:NLK
Sample : I8260STDL30PPB
Misc : WG1323153
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 07:30:30 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	54088	31.038	ug/L		94
28) Ethyl tert-butyl ether	4.300	59	665892	31.519	ug/L		91
29) Vinyl acetate	4.316	43	342076	28.708	ug/L	#	93
30) cis-1,2-Dichloroethene	4.589	96	268378	31.259	ug/L		89
31) 2,2-Dichloropropane	4.690	77	198011	24.543	ug/L		91
32) Bromochloromethane	4.776	128	113809	31.963	ug/L	#	88
33) Cyclohexane	4.784	56	427164	31.069	ug/L		84
34) Chloroform	4.846	83	422585	30.811	ug/L		96
35) Ethyl acetate	4.971	43	151779	30.078	ug/L		97
36) Carbon tetrachloride	4.987	117	372099	31.864	ug/L		99
37) Tetrahydrofuran	5.002	42	53767	30.393	ug/L		91
39) 1,1,1-Trichloroethane	5.057	97	393017	31.277	ug/L		96
41) 2-Butanone	5.151	43	65428	27.778	ug/L		87
42) 1,1-Dichloropropene	5.174	75	335748	31.929	ug/L		98
44) Benzene	5.416	78	925327	31.594	ug/L		95
45) tert-Amyl methyl ether	5.533	73	634363	31.733	ug/L		96
47) 1,2-Dichloroethane	5.620	62	220002	29.683	ug/L		99
50) Methyl cyclohexane	6.000	83	452835	31.714	ug/L		85
51) Trichloroethene	6.009	95	264245	31.890	ug/L		97
53) Dibromomethane	6.441	93	136696	30.857	ug/L		87
54) 1,2-Dichloropropane	6.554	63	244629	31.227	ug/L		99
56) 2-Chloroethyl vinyl ether	7.245	63	110717	31.976	ug/L		95
57) Bromodichloromethane	6.614	83	331493	31.710	ug/L		100
60) 1,4-Dioxane	6.830	88	32183	624.627	ug/L	#	76
61) cis-1,3-Dichloropropene	7.306	75	410972	32.057	ug/L	#	91
64) Toluene	7.581	92	604721	30.931	ug/L		100
65) 4-Methyl-2-pentanone	8.018	58	61838	32.283	ug/L		90
66) Tetrachloroethene	8.018	166	303352	31.323	ug/L		94
68) trans-1,3-Dichloropropene	8.057	75	332424	31.536	ug/L		90
70) Ethyl methacrylate	8.260	69	226392	31.472	ug/L		99
71) 1,1,2-Trichloroethane	8.245	83	160343	31.336	ug/L		97
72) Chlorodibromomethane	8.448	129	239390	31.636	ug/L		98
73) 1,3-Dichloropropane	8.565	76	325760	31.389	ug/L		99
74) 1,2-Dibromoethane	8.728	107	192574	30.970	ug/L		99
76) 2-Hexanone	9.025	43	104114	31.454	ug/L		95
77) Chlorobenzene	9.376	112	680828	30.986	ug/L		91
78) Ethylbenzene	9.423	91	1211910	31.855	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.462	131	258437	32.038	ug/L		96
80) p/m Xylene	9.610	106	975195	63.666	ug/L		98
81) o Xylene	10.156	106	910714	63.159	ug/L		97

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N09.D
Acq On : 19 Dec 2019 06:12 pm
Operator : VOA122:NLK
Sample : I8260STDL30PPB
Misc : WG1323153
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 07:30:30 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Styrene	10.227	104	1546155	65.294	ug/L	97
84)	Bromoform	10.242	173	164444	30.858	ug/L	99
86)	Isopropylbenzene	10.554	105	1443914	30.382	ug/L	99
88)	Bromobenzene	10.991	156	292341	29.585	ug/L	99
89)	n-Propylbenzene	11.046	91	1537159	30.970	ug/L	99
90)	1,4-Dichlorobutane	11.054	55	316957	29.960	ug/L	98
91)	1,1,2,2-Tetrachloroethane	11.124	83	220566	30.029	ug/L	100
92)	4-Ethyltoluene	11.171	105	1196864	30.978	ug/L	100
93)	2-Chlorotoluene	11.210	91	975645	30.774	ug/L	99
94)	1,3,5-Trimethylbenzene	11.272	105	1042940	30.905	ug/L	99
95)	1,2,3-Trichloropropane	11.265	75	185673	29.470	ug/L	99
96)	trans-1,4-Dichloro-2-b...	11.327	53	62478	29.911	ug/L	85
97)	4-Chlorotoluene	11.397	91	883964	30.704	ug/L	100
98)	tert-Butylbenzene	11.624	119	913929	30.674	ug/L	98
101)	1,2,4-Trimethylbenzene	11.702	105	1011063	30.932	ug/L	99
102)	sec-Butylbenzene	11.811	105	1374661	32.286	ug/L	97
103)	p-Isopropyltoluene	11.974	119	1204623	32.582	ug/L	96
104)	1,3-Dichlorobenzene	12.030	146	577122	30.281	ug/L	98
105)	1,4-Dichlorobenzene	12.121	146	563092	30.009	ug/L	99
106)	p-Diethylbenzene	12.350	119	582726	30.933	ug/L	99
107)	n-Butylbenzene	12.406	91	908980	31.410	ug/L	99
108)	1,2-Dichlorobenzene	12.552	146	514831	30.389	ug/L	98
109)	1,2,4,5-Tetramethylben...	13.151	119	762369	30.265	ug/L	99
110)	1,2-Dibromo-3-chloropr...	13.332	155	38387	29.731	ug/L	100
111)	1,3,5-Trichlorobenzene	13.367	180	320560	30.260	ug/L	96
112)	Hexachlorobutadiene	13.951	225	107974	30.279	ug/L	99
113)	1,2,4-Trichlorobenzene	13.972	180	293477	30.192	ug/L	99
114)	Naphthalene	14.265	128	668300	29.648	ug/L	100
115)	1,2,3-Trichlorobenzene	14.432	180	262712	29.471	ug/L	99

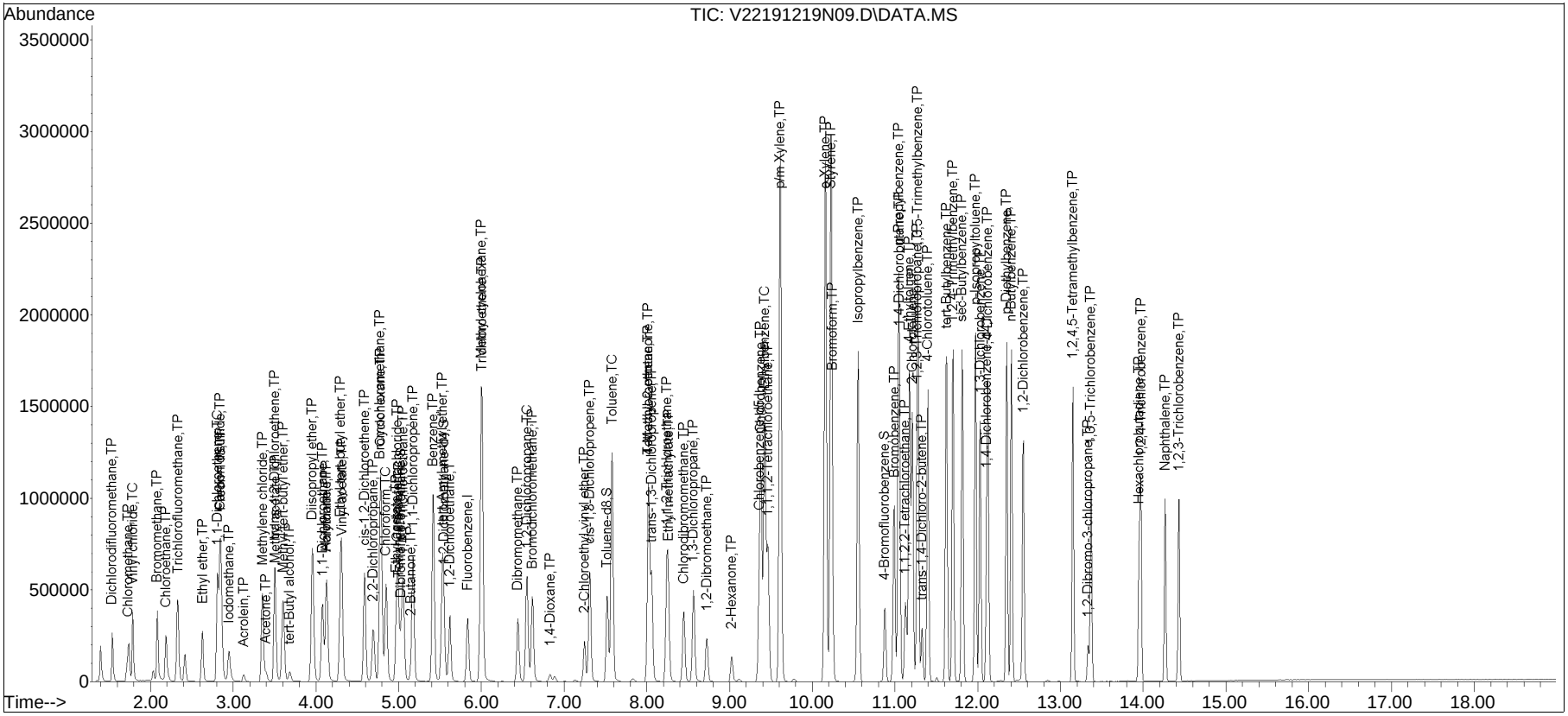
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N09.D
Acq On : 19 Dec 2019 06:12 pm
Operator : VOA122:NLK
Sample : I8260STDL30PPB
Misc : WG1323153
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 07:30:30 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1Q	Method	: V122_191219N_8260.m
Data File	: V22191219N09.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 6:12 pm	Instrument	: VOA122
Sample	: I8260STDL30PPB	Quant Date	: 12/20/2019 7:30 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N10.D
Acq On : 19 Dec 2019 06:37 pm
Operator : VOA122:NLK
Sample : I8260STDL80PPB
Misc : WG1323153
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 07:30:40 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	353091	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 108.08%			
62) Chlorobenzene-d5	9.361	117	292699	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 110.63%			
83) 1,4-Dichlorobenzene-d4	12.108	152	156233	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 116.81%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	100314	9.836	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.36%			
46) 1,2-Dichloroethane-d4	5.549	65	112516	9.548	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.48%			
63) Toluene-d8	7.519	98	374593	9.906	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.06%			
87) 4-Bromofluorobenzene	10.874	95	149529	9.747	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.47%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	475363	78.265	ug/L #	96
3) Chloromethane	1.733	50	591527	73.747	ug/L	98
4) Vinyl chloride	1.787	62	704412	78.229	ug/L	99
5) Bromomethane	2.084	94	496225	80.771	ug/L	98
6) Chloroethane	2.185	64	476748	73.376	ug/L	98
7) Trichlorofluoromethane	2.326	101	943013	76.775	ug/L	99
8) Ethyl ether	2.630	74	286884	79.048	ug/L #	1
10) 1,1-Dichloroethene	2.810	96	521293	75.304	ug/L	82
11) Carbon disulfide	2.841	76	1321756	73.128	ug/L	98
12) Freon-113	2.849	101	579032	76.305	ug/L	96
13) Iodomethane	2.950	142	580572	80.282	ug/L	93
14) Acrolein	3.130	56	85047	80.531	ug/L	98
15) Methylene chloride	3.356	84	591104	75.373	ug/L	84
17) Acetone	3.395	43	139997	69.606	ug/L	97
18) trans-1,2-Dichloroethene	3.504	96	554957	74.616	ug/L	89
19) Methyl acetate	3.512	43	255580	73.648	ug/L	95
21) Methyl tert-butyl ether	3.606	73	1219501	74.146	ug/L	93
22) tert-Butyl alcohol	3.684	59	176316	341.848	ug/L	94
24) Diisopropyl ether	3.957	45	1803953	77.946	ug/L	95
25) 1,1-Dichloroethane	4.082	63	1162798	77.798	ug/L	98
26) Halothane	4.128	117	501444	76.725	ug/L	100

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N10.D
Acq On : 19 Dec 2019 06:37 pm
Operator : VOA122:NLK
Sample : I8260STDL80PPB
Misc : WG1323153
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 07:30:40 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	147313	79.003	ug/L		95
28) Ethyl tert-butyl ether	4.300	59	1780294	78.753	ug/L		95
29) Vinyl acetate	4.316	43	1048382	82.226	ug/L		94
30) cis-1,2-Dichloroethene	4.589	96	688823	74.980	ug/L		87
31) 2,2-Dichloropropane	4.690	77	590283	68.378	ug/L		93
32) Bromochloromethane	4.776	128	264180	69.340	ug/L		88
33) Cyclohexane	4.784	56	1150076	78.174	ug/L		83
34) Chloroform	4.846	83	1117930	76.176	ug/L		96
35) Ethyl acetate	4.971	43	415282	76.912	ug/L		97
36) Carbon tetrachloride	4.987	117	994453	79.585	ug/L		99
37) Tetrahydrofuran	5.003	42	145047	76.626	ug/L		95
39) 1,1,1-Trichloroethane	5.049	97	1027791	76.441	ug/L		96
41) 2-Butanone	5.151	43	179063	71.049	ug/L		87
42) 1,1-Dichloropropene	5.174	75	882632	78.444	ug/L		98
44) Benzene	5.416	78	2465179	78.662	ug/L		95
45) tert-Amyl methyl ether	5.533	73	1742404	81.457	ug/L		96
47) 1,2-Dichloroethane	5.620	62	585709	73.854	ug/L		98
50) Methyl cyclohexane	6.000	83	1239541	81.130	ug/L		85
51) Trichloroethene	6.009	95	698954	78.834	ug/L		98
53) Dibromomethane	6.441	93	369763	78.007	ug/L		86
54) 1,2-Dichloropropane	6.554	63	656151	78.277	ug/L		99
56) 2-Chloroethyl vinyl ether	7.246	63	253137	68.325	ug/L		95
57) Bromodichloromethane	6.614	83	897906	80.272	ug/L		100
60) 1,4-Dioxane	6.831	88	45312	821.897	ug/L	#	77
61) cis-1,3-Dichloropropene	7.315	75	1111109	81.000	ug/L	#	91
64) Toluene	7.582	92	1650318	78.427	ug/L		99
65) 4-Methyl-2-pentanone	8.018	58	174326	84.557	ug/L		91
66) Tetrachloroethene	8.018	166	808848	77.598	ug/L		93
68) trans-1,3-Dichloropropene	8.057	75	911464	80.338	ug/L		90
70) Ethyl methacrylate	8.260	69	648422	83.750	ug/L		99
71) 1,1,2-Trichloroethane	8.245	83	434231	78.845	ug/L		97
72) Chlorodibromomethane	8.448	129	665799	81.750	ug/L		98
73) 1,3-Dichloropropane	8.565	76	887538	79.457	ug/L		99
74) 1,2-Dibromoethane	8.729	107	538454	80.455	ug/L		100
76) 2-Hexanone	9.025	43	298671	83.835	ug/L		96
77) Chlorobenzene	9.384	112	1840060	77.807	ug/L		92
78) Ethylbenzene	9.423	91	3302172	80.643	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.462	131	704844	81.183	ug/L		97
80) p/m Xylene	9.618	106	2664257	161.604	ug/L		99
81) o Xylene	10.164	106	2547513	164.148	ug/L		99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N10.D
Acq On : 19 Dec 2019 06:37 pm
Operator : VOA122:NLK
Sample : I8260STDL80PPB
Misc : WG1323153
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 07:30:40 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.227	104	4320311	169.512	ug/L	97
84) Bromoform	10.242	173	476470	83.553	ug/L	99
86) Isopropylbenzene	10.554	105	3934872	77.373	ug/L	98
88) Bromobenzene	10.992	156	816771	77.244	ug/L	99
89) n-Propylbenzene	11.046	91	4225126	79.552	ug/L	100
90) 1,4-Dichlorobutane	11.054	55	886734	78.327	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.124	83	605373	77.022	ug/L	99
92) 4-Ethyltoluene	11.179	105	3254669	78.721	ug/L	99
93) 2-Chlorotoluene	11.210	91	2618901	77.197	ug/L	99
94) 1,3,5-Trimethylbenzene	11.280	105	2850389	78.931	ug/L	99
95) 1,2,3-Trichloropropane	11.265	75	517581	76.771	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.327	53	176056	78.766	ug/L	88
97) 4-Chlorotoluene	11.397	91	2403565	78.019	ug/L	99
98) tert-Butylbenzene	11.624	119	2535740	79.532	ug/L	98
101) 1,2,4-Trimethylbenzene	11.702	105	2815066	80.482	ug/L	100
102) sec-Butylbenzene	11.811	105	3825275	83.959	ug/L	97
103) p-Isopropyltoluene	11.975	119	3351531	84.713	ug/L	99
104) 1,3-Dichlorobenzene	12.031	146	1578605	77.402	ug/L	98
105) 1,4-Dichlorobenzene	12.122	146	1546208	77.005	ug/L	98
106) p-Diethylbenzene	12.351	119	1666824	82.685	ug/L	100
107) n-Butylbenzene	12.407	91	2508248	80.996	ug/L	99
108) 1,2-Dichlorobenzene	12.553	146	1420773	78.372	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.152	119	2210222	81.996	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.333	155	111782	80.905	ug/L	99
111) 1,3,5-Trichlorobenzene	13.368	180	884642	78.039	ug/L	96
112) Hexachlorobutadiene	13.952	225	293653	76.956	ug/L	98
113) 1,2,4-Trichlorobenzene	13.973	180	798899	76.807	ug/L	98
114) Naphthalene	14.265	128	1933750	80.170	ug/L	100
115) 1,2,3-Trichlorobenzene	14.433	180	738416	77.410	ug/L	99

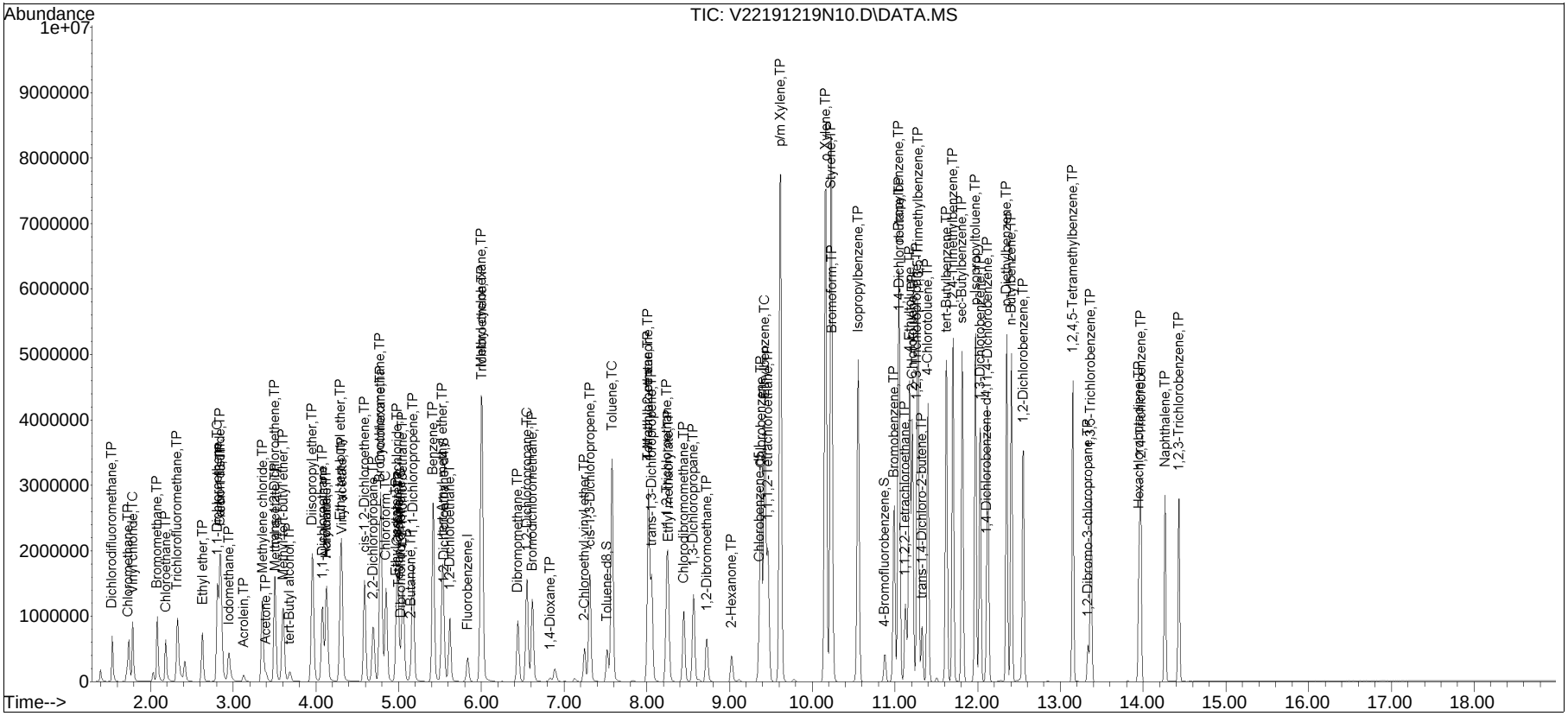
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N10.D
Acq On : 19 Dec 2019 06:37 pm
Operator : VOA122:NLK
Sample : I8260STDL80PPB
Misc : WG1323153
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 07:30:40 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1Q	Method	: V122_191219N_8260.m
Data File	: V22191219N10.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 6:37 pm	Instrument	: VOA122
Sample	: I8260STDL80PPB	Quant Date	: 12/20/2019 7:30 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N11.D
Acq On : 19 Dec 2019 07:03 pm
Operator : VOA122:NLK
Sample : I8260STDL120PPB
Misc : WG1323153
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 07:30:49 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	360742	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 110.43%			
62) Chlorobenzene-d5	9.361	117	303905	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 114.87%			
83) 1,4-Dichlorobenzene-d4	12.107	152	157812	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 117.99%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	102049	9.794	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.94%			
46) 1,2-Dichloroethane-d4	5.549	65	116120	9.645	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.45%			
63) Toluene-d8	7.519	98	387645	9.873	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.73%			
87) 4-Bromofluorobenzene	10.882	95	152545	9.844	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	763457	123.031	ug/L	97
3) Chloromethane	1.733	50	935377	114.142	ug/L	98
4) Vinyl chloride	1.779	62	1112340	120.912	ug/L	99
5) Bromomethane	2.084	94	803562	173.685	ug/L	97
6) Chloroethane	2.185	64	613663	92.445	ug/L	99
7) Trichlorofluoromethane	2.326	101	1486795	118.480	ug/L	100
8) Ethyl ether	2.630	74	450208	121.419	ug/L #	1
10) 1,1-Dichloroethene	2.810	96	818978	115.797	ug/L	82
11) Carbon disulfide	2.841	76	2120396	114.825	ug/L	98
12) Freon-113	2.849	101	918265	118.443	ug/L	96
13) Iodomethane	2.950	142	879658	122.003	ug/L	94
14) Acrolein	3.130	56	140701	130.405	ug/L	98
15) Methylene chloride	3.348	84	941261	117.477	ug/L	84
17) Acetone	3.395	43	225833	109.901	ug/L	98
18) trans-1,2-Dichloroethene	3.504	96	883684	116.294	ug/L	90
19) Methyl acetate	3.512	43	414049	116.783	ug/L	95
21) Methyl tert-butyl ether	3.606	73	1899599	113.047	ug/L	93
22) tert-Butyl alcohol	3.684	59	303619	576.183	ug/L	95
24) Diisopropyl ether	3.957	45	2874037	121.549	ug/L	95
25) 1,1-Dichloroethane	4.082	63	1853938	121.408	ug/L	98
26) Halothane	4.128	117	800327	119.859	ug/L	99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N11.D
Acq On : 19 Dec 2019 07:03 pm
Operator : VOA122:NLK
Sample : I8260STDL120PPB
Misc : WG1323153
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 07:30:49 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	235394	123.563	ug/L		96
28) Ethyl tert-butyl ether	4.300	59	2790185	120.809	ug/L		97
29) Vinyl acetate	4.316	43	1756945	134.877	ug/L		95
30) cis-1,2-Dichloroethene	4.589	96	1089484	116.077	ug/L		88
31) 2,2-Dichloropropane	4.690	77	988846	112.118	ug/L		93
32) Bromochloromethane	4.776	128	411550	105.730	ug/L		89
33) Cyclohexane	4.784	56	1853304	123.303	ug/L		84
34) Chloroform	4.847	83	1766459	117.813	ug/L		96
35) Ethyl acetate	4.971	43	668340	121.154	ug/L		98
36) Carbon tetrachloride	4.987	117	1603179	125.580	ug/L		99
37) Tetrahydrofuran	5.003	42	227689	117.733	ug/L		96
39) 1,1,1-Trichloroethane	5.049	97	1627234	118.458	ug/L		96
41) 2-Butanone	5.143	43	287605	111.696	ug/L		87
42) 1,1-Dichloropropene	5.174	75	1412664	122.888	ug/L		98
44) Benzene	5.416	78	3896581	121.700	ug/L		95
45) tert-Amyl methyl ether	5.533	73	2743137	125.521	ug/L		96
47) 1,2-Dichloroethane	5.620	62	919776	113.518	ug/L		98
50) Methyl cyclohexane	6.000	83	1986037	127.232	ug/L		86
51) Trichloroethene	6.009	95	1114259	123.009	ug/L		98
53) Dibromomethane	6.441	93	574242	118.575	ug/L		86
54) 1,2-Dichloropropane	6.554	63	1032523	120.565	ug/L		99
56) 2-Chloroethyl vinyl ether	7.246	63	347509	91.807	ug/L		90
57) Bromodichloromethane	6.614	83	1423359	124.548	ug/L		100
60) 1,4-Dioxane	6.831	88	73548	1305.765	ug/L	#	80
61) cis-1,3-Dichloropropene	7.315	75	1744201	124.455	ug/L	#	91
64) Toluene	7.582	92	2638618	120.769	ug/L		98
65) 4-Methyl-2-pentanone	8.019	58	281037	131.291	ug/L		92
66) Tetrachloroethene	8.019	166	1296977	119.839	ug/L		93
68) trans-1,3-Dichloropropene	8.058	75	1435892	121.895	ug/L		90
70) Ethyl methacrylate	8.260	69	1037475	129.058	ug/L		98
71) 1,1,2-Trichloroethane	8.245	83	683258	119.488	ug/L		98
72) Chlorodibromomethane	8.448	129	1059694	125.316	ug/L		98
73) 1,3-Dichloropropane	8.565	76	1399839	120.699	ug/L		99
74) 1,2-Dibromoethane	8.729	107	848898	122.163	ug/L		100
76) 2-Hexanone	9.025	43	478032	129.232	ug/L		97
77) Chlorobenzene	9.384	112	2937003	119.611	ug/L		92
78) Ethylbenzene	9.423	91	5210145	122.547	ug/L		100
79) 1,1,1,2-Tetrachloroethane	9.462	131	1111795	123.333	ug/L		97
80) p/m Xylene	9.618	106	4262694	249.026	ug/L		98
81) o Xylene	10.164	106	4084335	253.468	ug/L		99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N11.D
Acq On : 19 Dec 2019 07:03 pm
Operator : VOA122:NLK
Sample : I8260STDL120PPB
Misc : WG1323153
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 07:30:49 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Styrene	10.234	104	6738088	254.627	ug/L	96
84)	Bromoform	10.242	173	760721	132.065	ug/L	100
86)	Isopropylbenzene	10.554	105	6143972	119.603	ug/L	98
88)	Bromobenzene	10.992	156	1296036	121.342	ug/L	100
89)	n-Propylbenzene	11.046	91	6529363	121.706	ug/L	99
90)	1,4-Dichlorobutane	11.062	55	1410790	123.371	ug/L	99
91)	1,1,2,2-Tetrachloroethane	11.124	83	942976	118.775	ug/L	100
92)	4-Ethyltoluene	11.179	105	5064354	121.267	ug/L	98
93)	2-Chlorotoluene	11.210	91	4099186	119.622	ug/L	98
94)	1,3,5-Trimethylbenzene	11.280	105	4449135	121.970	ug/L	99
95)	1,2,3-Trichloropropane	11.273	75	820995	120.558	ug/L	99
96)	trans-1,4-Dichloro-2-b...	11.327	53	273533	121.152	ug/L	92
97)	4-Chlorotoluene	11.397	91	3749574	120.492	ug/L	98
98)	tert-Butylbenzene	11.624	119	3987332	123.808	ug/L	98
101)	1,2,4-Trimethylbenzene	11.702	105	4381755	124.020	ug/L	99
102)	sec-Butylbenzene	11.811	105	5872658	127.607	ug/L	97
103)	p-Isopropyltoluene	11.975	119	5145033	128.744	ug/L	96
104)	1,3-Dichlorobenzene	12.030	146	2448526	118.855	ug/L	98
105)	1,4-Dichlorobenzene	12.128	146	2381367	117.411	ug/L	98
106)	p-Diethylbenzene	12.350	119	2595846	127.482	ug/L	99
107)	n-Butylbenzene	12.406	91	3891793	124.415	ug/L	100
108)	1,2-Dichlorobenzene	12.552	146	2222457	121.367	ug/L	98
109)	1,2,4,5-Tetramethylben...	13.151	119	3489243	128.151	ug/L	99
110)	1,2-Dibromo-3-chloropr...	13.332	155	182127	130.500	ug/L	99
111)	1,3,5-Trichlorobenzene	13.374	180	1368931	119.553	ug/L	96
112)	Hexachlorobutadiene	13.951	225	468837	121.636	ug/L	98
113)	1,2,4-Trichlorobenzene	13.972	180	1251549	119.121	ug/L	98
114)	Naphthalene	14.265	128	3065065	125.801	ug/L	100
115)	1,2,3-Trichlorobenzene	14.432	180	1165479	120.957	ug/L	98

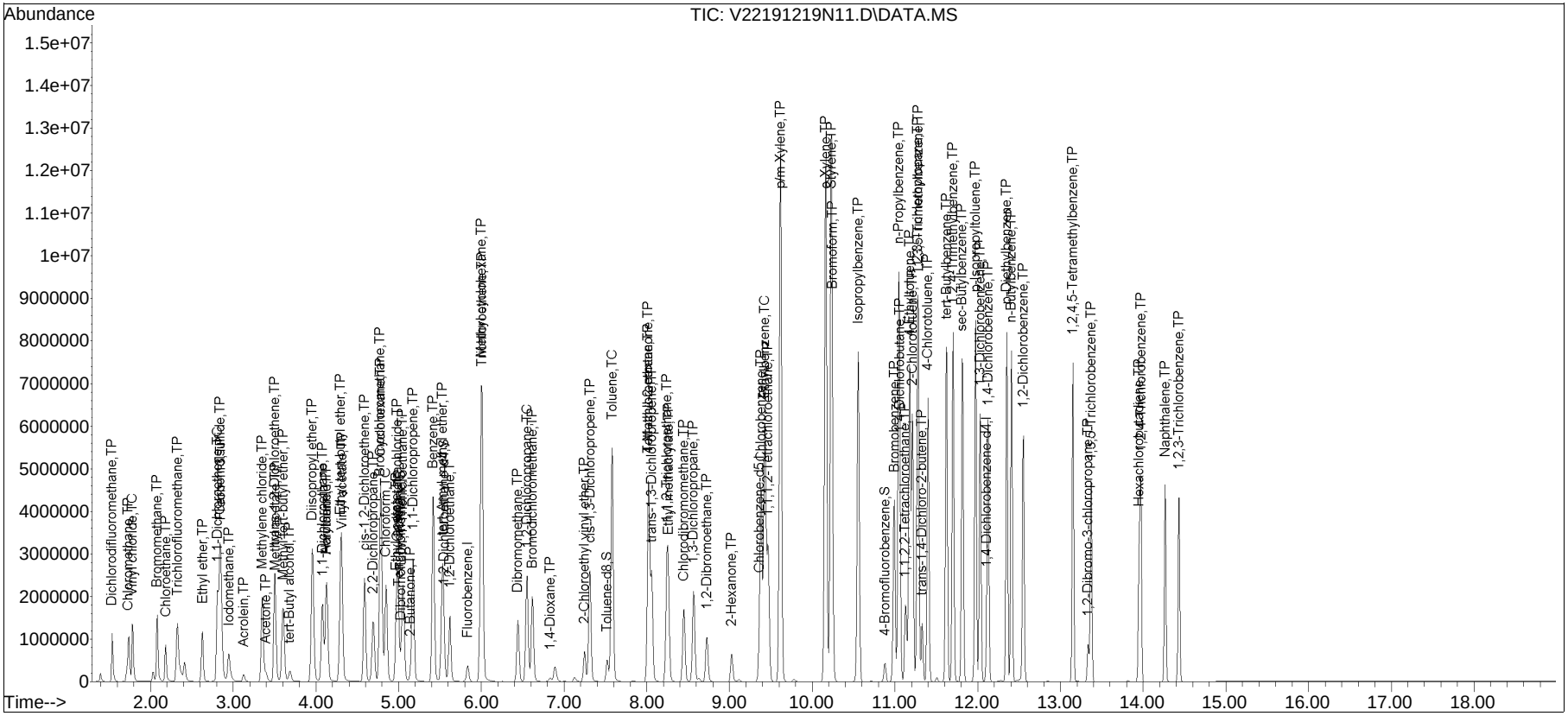
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N11.D
Acq On : 19 Dec 2019 07:03 pm
Operator : VOA122:NLK
Sample : I8260STDL120PPB
Misc : WG1323153
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 07:30:49 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1Q	Method	: V122_191219N_8260.m
Data File	: V22191219N11.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 7:03 pm	Instrument	: VOA122
Sample	: I8260STDL120PPB	Quant Date	: 12/20/2019 7:30 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N12.D
Acq On : 19 Dec 2019 07:28 pm
Operator : VOA122:NLK
Sample : I8260STDL200PPB
Misc : WG1323153
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 20 07:31:00 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.836	96	378716	10.000 ug/L	0.00
Standard Area 1 = 326684			Recovery = 115.93%		
62) Chlorobenzene-d5	9.360	117	323796	10.000 ug/L	0.00
Standard Area 1 = 264570			Recovery = 122.39%		
83) 1,4-Dichlorobenzene-d4	12.108	152	162957	10.000 ug/L	0.00
Standard Area 1 = 133749			Recovery = 121.84%		
System Monitoring Compounds					
38) Dibromofluoromethane	5.026	113	105812	9.673 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.73%		
46) 1,2-Dichloroethane-d4	5.549	65	124579	9.856 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.56%		
63) Toluene-d8	7.527	98	402810	9.629 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.29%		
87) 4-Bromofluorobenzene	10.874	95	162345	10.146 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.46%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.537	85	1292780	198.444 ug/L	96
3) Chloromethane	1.732	50	1621673	188.497 ug/L	98
4) Vinyl chloride	1.787	62	1934492	200.301 ug/L	99
5) Bromomethane	2.084	94	1384988	Below Cal	98
6) Chloroethane	2.177	64	662507	95.067 ug/L	99
7) Trichlorofluoromethane	2.326	101	2527234	191.833 ug/L	100
8) Ethyl ether	2.630	74	776336	199.437 ug/L #	1
10) 1,1-Dichloroethene	2.809	96	1383466	186.328 ug/L	82
11) Carbon disulfide	2.841	76	3638232	187.669 ug/L	98
12) Freon-113	2.848	101	1566743	192.496 ug/L	96
13) Iodomethane	2.950	142	1421571	198.417 ug/L	93
14) Acrolein	3.129	56	244886	216.194 ug/L	98
15) Methylene chloride	3.348	84	1631855	194.003 ug/L	84
17) Acetone	3.403	43	392551	181.968 ug/L	97
18) trans-1,2-Dichloroethene	3.504	96	1511193	189.436 ug/L	90
19) Methyl acetate	3.520	43	721153	193.748 ug/L	95
21) Methyl tert-butyl ether	3.606	73	3107453	176.151 ug/L	94
22) tert-Butyl alcohol	3.691	59	538407	973.253 ug/L	95
24) Diisopropyl ether	3.957	45	4958831	199.766 ug/L	95
25) 1,1-Dichloroethane	4.082	63	3112271	194.140 ug/L	98
26) Halothane	4.128	117	1381709	197.108 ug/L	99

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N12.D
Acq On : 19 Dec 2019 07:28 pm
Operator : VOA122:NLK
Sample : I8260STDL200PPB
Misc : WG1323153
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 20 07:31:00 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	404202	202.103	ug/L		96
28) Ethyl tert-butyl ether	4.300	59	4592218	189.397	ug/L		94
29) Vinyl acetate	4.316	43	3101236	226.777	ug/L		96
30) cis-1,2-Dichloroethene	4.589	96	1852748	188.029	ug/L		88
31) 2,2-Dichloropropane	4.698	77	1680641	181.512	ug/L		92
32) Bromochloromethane	4.784	128	712945	174.468	ug/L		89
33) Cyclohexane	4.784	56	3191763	202.274	ug/L		84
34) Chloroform	4.846	83	3058020	194.274	ug/L		96
35) Ethyl acetate	4.971	43	1141867	197.168	ug/L		97
36) Carbon tetrachloride	4.987	117	2739973	204.441	ug/L		99
37) Tetrahydrofuran	5.003	42	388983	191.588	ug/L		95
39) 1,1,1-Trichloroethane	5.057	97	2754445	190.999	ug/L		96
41) 2-Butanone	5.151	43	484351	179.177	ug/L		87
42) 1,1-Dichloropropene	5.174	75	2415157	200.124	ug/L		98
44) Benzene	5.416	78	6614554	196.785	ug/L		94
45) tert-Amyl methyl ether	5.533	73	4580274	199.639	ug/L		96
47) 1,2-Dichloroethane	5.620	62	1630337	191.666	ug/L		98
50) Methyl cyclohexane	6.000	83	3417333	208.535	ug/L		86
51) Trichloroethene	6.009	95	1948171	204.863	ug/L		98
53) Dibromomethane	6.441	93	953098	187.465	ug/L		86
54) 1,2-Dichloropropane	6.554	63	1786855	198.745	ug/L		99
56) 2-Chloroethyl vinyl ether	7.246	63	491557	123.700	ug/L		90
57) Bromodichloromethane	6.614	83	2435641	203.010	ug/L		100
60) 1,4-Dioxane	6.830	88	125960	2130.149	ug/L	#	78
61) cis-1,3-Dichloropropene	7.315	75	3009636	204.557	ug/L	#	91
64) Toluene	7.581	92	4551495	195.524	ug/L		96
65) 4-Methyl-2-pentanone	8.018	58	478485	209.800	ug/L		93
66) Tetrachloroethene	8.026	166	2220317	192.552	ug/L		93
68) trans-1,3-Dichloropropene	8.057	75	2414333	192.366	ug/L		90
70) Ethyl methacrylate	8.260	69	1777184	207.495	ug/L		98
71) 1,1,2-Trichloroethane	8.245	83	1171121	192.223	ug/L		98
72) Chlorodibromomethane	8.448	129	1829554	203.066	ug/L		99
73) 1,3-Dichloropropane	8.565	76	2361859	191.138	ug/L		99
74) 1,2-Dibromoethane	8.728	107	1433396	193.606	ug/L		100
76) 2-Hexanone	9.025	43	808616	205.174	ug/L		98
77) Chlorobenzene	9.384	112	5083262	194.302	ug/L		92
78) Ethylbenzene	9.431	91	8775212	193.721	ug/L		98
79) 1,1,1,2-Tetrachloroethane	9.470	131	1896002	197.405	ug/L		97
80) p/m Xylene	9.618	106	7357105	403.398	ug/L		93
81) o Xylene	10.164	106	7048096	410.526	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N12.D
Acq On : 19 Dec 2019 07:28 pm
Operator : VOA122:NLK
Sample : I8260STDL200PPB
Misc : WG1323153
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 20 07:31:00 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.234	104	11215207	397.779	ug/L	94
84) Bromoform	10.242	173	1313413	220.816	ug/L	99
86) Isopropylbenzene	10.554	105	10467695	197.338	ug/L	97
88) Bromobenzene	10.991	156	2232822	202.449	ug/L	100
89) n-Propylbenzene	11.046	91	10801808	194.987	ug/L	97
90) 1,4-Dichlorobutane	11.062	55	2408234	203.946	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.132	83	1583313	193.133	ug/L	99
92) 4-Ethyltoluene	11.179	105	8477395	196.584	ug/L	97
93) 2-Chlorotoluene	11.210	91	6921345	195.601	ug/L	98
94) 1,3,5-Trimethylbenzene	11.280	105	7563738	200.808	ug/L	98
95) 1,2,3-Trichloropropane	11.273	75	1413864	201.062	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.327	53	469104	201.214	ug/L	92
97) 4-Chlorotoluene	11.397	91	6301928	196.118	ug/L	97
98) tert-Butylbenzene	11.624	119	6758793	203.237	ug/L	97
101) 1,2,4-Trimethylbenzene	11.702	105	7336773	201.101	ug/L	98
102) sec-Butylbenzene	11.819	105	9796273	206.142	ug/L	99
103) p-Isopropyltoluene	11.975	119	8579727	207.912	ug/L	96
104) 1,3-Dichlorobenzene	12.031	146	4128827	194.091	ug/L	97
105) 1,4-Dichlorobenzene	12.128	146	4055380	193.634	ug/L	98
106) p-Diethylbenzene	12.351	119	4436328	210.990	ug/L	99
107) n-Butylbenzene	12.407	91	6451388	199.730	ug/L	98
108) 1,2-Dichlorobenzene	12.553	146	3710344	196.223	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.152	119	6063383	215.662	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.333	155	309923	215.059	ug/L	100
111) 1,3,5-Trichlorobenzene	13.374	180	2376739	201.015	ug/L	97
112) Hexachlorobutadiene	13.952	225	826188	207.581	ug/L	99
113) 1,2,4-Trichlorobenzene	13.973	180	2159264	199.028	ug/L	98
114) Naphthalene	14.265	128	5310003	211.061	ug/L	100
115) 1,2,3-Trichlorobenzene	14.432	180	2014701	202.491	ug/L	99

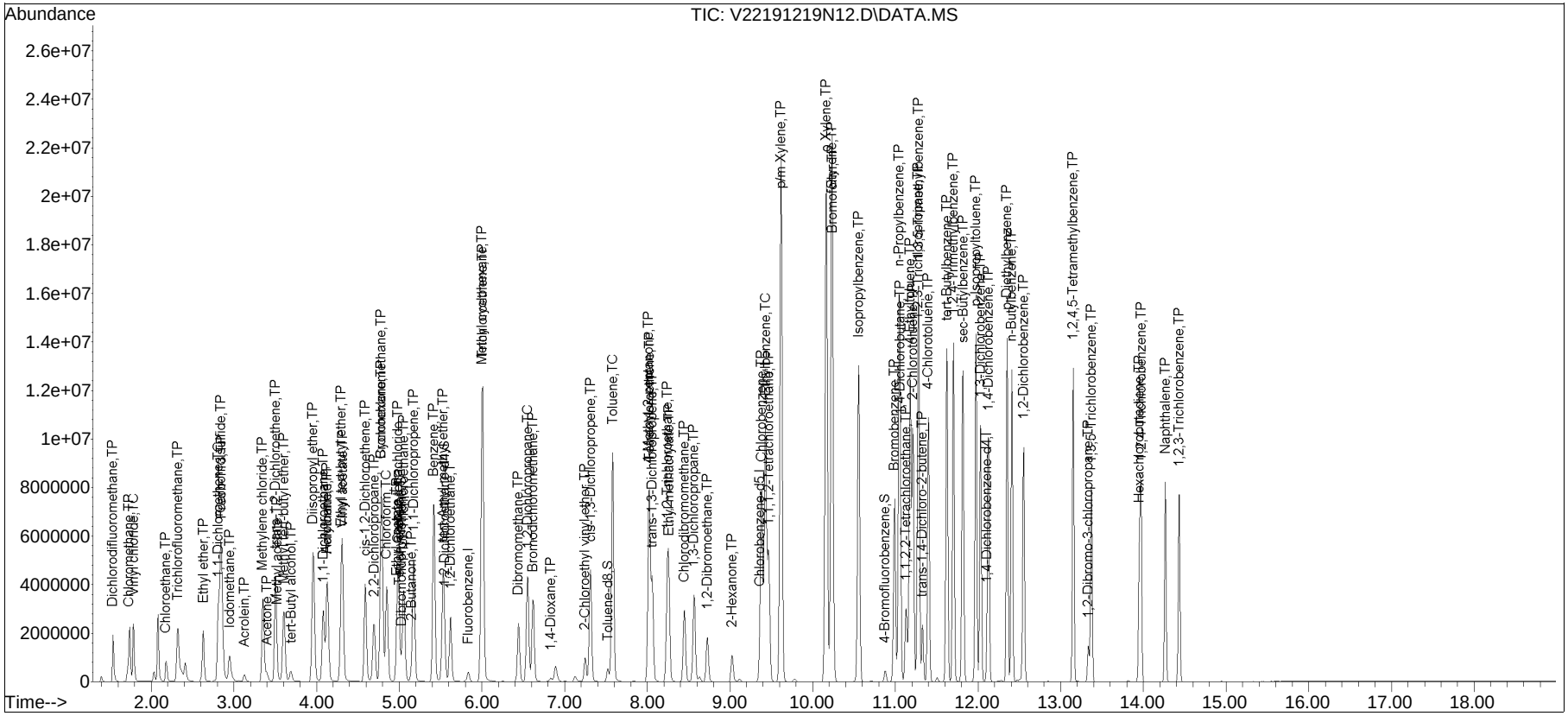
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N12.D
Acq On : 19 Dec 2019 07:28 pm
Operator : VOA122:NLK
Sample : I8260STDL200PPB
Misc : WG1323153
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 20 07:31:00 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1Q	Method	: V122_191219N_8260.m
Data File	: V22191219N12.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 7:28 pm	Instrument	: VOA122
Sample	: I8260STDL200PPB	Quant Date	: 12/20/2019 7:30 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.00
2	TP	Dichlorodifluoromethane	0.172	0.232	-34.9#	129	0.00
3	TP	Chloromethane	0.227	0.258	-13.7	112	0.00
4	TC	Vinyl chloride	0.255	0.286	-12.2	107	0.00
5	TP	Bromomethane	* 10.000	10.235	-2.3	100	0.00
6	TP	Chloroethane	0.184	0.190	-3.3	96	0.00
7	TP	Trichlorofluoromethane	0.348	0.366	-5.2	99	0.00
8	TP	Ethyl ether	0.103	0.120	-16.5	118	0.00
10	TC	1,1-Dichloroethene	0.196	0.185	5.6	89	0.00
11	TP	Carbon disulfide	0.512	0.613	-19.7	115	0.00
12	TP	Freon-113	0.215	0.222	-3.3	97	0.00
13	TP	Iodomethane	* 10.000	10.927	-9.3	155	0.00
14	TP	Acrolein	0.030	0.028#	6.7	98	0.00
15	TP	Methylene chloride	0.222	0.211	5.0	94	0.00
17	TP	Acetone	0.057	0.057#	0.0	109	0.00
18	TP	trans-1,2-Dichloroethene	0.211	0.213	-0.9	97	0.00
19	TP	Methyl acetate	0.098	0.081#	17.3	91	0.00
21	TP	Methyl tert-butyl ether	0.466	0.534	-14.6	110	0.00
22	TP	tert-Butyl alcohol	0.015	0.013#	13.3	94	0.00
24	TP	Diisopropyl ether	0.655	0.697	-6.4	108	0.00
25	TP	1,1-Dichloroethane	0.423	0.385	9.0	89	0.00
26	TP	Halothane	0.185	0.171	7.6	91	0.00
27	TP	Acrylonitrile	0.053	0.062	-17.0	122	0.00
28	TP	Ethyl tert-butyl ether	0.640	0.691	-8.0	109	0.00
29	TP	Vinyl acetate	0.361	0.312	13.6	97	0.00
30	TP	cis-1,2-Dichloroethene	0.260	0.235	9.6	88	0.00
31	TP	2,2-Dichloropropane	0.244	0.136	44.3#	54	0.00
32	TP	Bromochloromethane	0.108	0.108	0.0	92	0.00
33	TP	Cyclohexane	0.417	0.403	3.4	95	0.00
34	TC	Chloroform	0.416	0.392	5.8	93	0.00
35	TP	Ethyl acetate	0.153	0.153	0.0	106	0.00
36	TP	Carbon tetrachloride	0.354	0.330	6.8	89	0.00
37	TP	Tetrahydrofuran	0.054	0.059	-9.3	116	0.00
38	S	Dibromofluoromethane	0.289	0.291	-0.7	105	0.00
39	TP	1,1,1-Trichloroethane	0.381	0.358	6.0	91	0.00
41	TP	2-Butanone	0.071	0.068#	4.2	104	0.00
42	TP	1,1-Dichloropropene	0.319	0.303	5.0	93	0.00
44	TP	Benzene	0.888	0.849	4.4	94	0.00
45	TP	tert-Amyl methyl ether	0.606	0.633	-4.5	106	0.00

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	S	1,2-Dichloroethane-d4	0.334	0.314	6.0	105	0.00
47	T	1,2-Dichloroethane	0.225	0.212	5.8	99	0.00
50	TP	Methyl cyclohexane	0.433	0.380	12.2	85	0.00
51	TP	Trichloroethene	0.251	0.234	6.8	93	0.00
53	TP	Dibromomethane	0.134	0.125	6.7	94	0.00
54	TC	1,2-Dichloropropane	0.237	0.230	3.0	98	0.00
56	TP	2-Chloroethyl vinyl ether	0.105	0.109	-3.8	93	0.00
57	TP	Bromodichloromethane	0.317	0.291	8.2	93	0.00
60	TP	1,4-Dioxane	0.00156	0.00177#	-13.5	130	0.00
61	TP	cis-1,3-Dichloropropene	0.388	0.351	9.5	89	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
63	S	Toluene-d8	1.292	1.295	-0.2	105	0.00
64	TC	Toluene	0.719	0.670	6.8	94	0.00
65	TP	4-Methyl-2-pentanone	0.070	0.070#	0.0	110	0.00
66	TP	Tetrachloroethene	0.356	0.334	6.2	94	0.00
68	TP	trans-1,3-Dichloropropene	0.388	0.343	11.6	89	0.00
70	TP	Ethyl methacrylate	0.265	0.282	-6.4	113	0.00
71	TP	1,1,2-Trichloroethane	0.188	0.180	4.3	98	0.00
72	TP	Chlorodibromomethane	0.278	0.264	5.0	99	0.00
73	TP	1,3-Dichloropropane	0.382	0.376	1.6	101	0.00
74	TP	1,2-Dibromoethane	0.229	0.221	3.5	98	0.00
76	TP	2-Hexanone	0.122	0.117	4.1	103	0.00
77	TP	Chlorobenzene	0.808	0.775	4.1	97	0.00
78	TC	Ethylbenzene	1.399	1.374	1.8	97	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.297	0.290	2.4	98	0.00
80	TP	p/m Xylene	0.563	0.530	5.9	95	0.00
81	TP	o Xylene	0.530	0.522	1.5	101	0.00
82	TP	Styrene	0.871	0.847	2.8	99	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
84	TP	Bromoform	0.365	0.330	9.6	100	0.00
86	TP	Isopropylbenzene	3.255	3.079	5.4	94	0.00
87	S	4-Bromofluorobenzene	0.982	1.005	-2.3	108	0.00
88	TP	Bromobenzene	0.677	0.659	2.7	99	0.00
89	TP	n-Propylbenzene	3.400	3.280	3.5	96	0.00
90	TP	1,4-Dichlorobutane	0.725	0.764	-5.4	113	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.503	0.504	-0.2	106	0.00
92	TP	4-Ethyltoluene	2.646	2.664	-0.7	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
93 TP	2-Chlorotoluene	2.171	2.141	1.4	98	0.00
94 TP	1,3,5-Trimethylbenzene	2.311	2.181	5.6	94	0.00
95 TP	1,2,3-Trichloropropane	0.432	0.411	4.9	102	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.143	0.126	11.9	96	0.00
97 TP	4-Chlorotoluene	1.972	1.872	5.1	95	0.00
98 TP	tert-Butylbenzene	2.041	1.951	4.4	96	0.00
101 TP	1,2,4-Trimethylbenzene	2.239	2.223	0.7	101	0.00
102 TP	sec-Butylbenzene	2.916	2.851	2.2	103	0.00
103 TP	p-Isopropyltoluene	2.532	2.523	0.4	106	0.00
104 TP	1,3-Dichlorobenzene	1.305	1.280	1.9	100	0.00
105 TP	1,4-Dichlorobenzene	1.285	1.214	5.5	96	0.00
106 TP	p-Diethylbenzene	1.290	1.188	7.9	94	0.00
107 TP	n-Butylbenzene	1.982	1.929	2.7	97	0.00
108 TP	1,2-Dichlorobenzene	1.160	1.116	3.8	98	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.725	1.601	7.2	98	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.088	0.082	6.8	104	0.00
111 TP	1,3,5-Trichlorobenzene	0.726	0.675	7.0	94	0.00
112 TP	Hexachlorobutadiene	0.244	0.235	3.7	98	0.00
113 TP	1,2,4-Trichlorobenzene	0.666	0.661	0.8	101	0.00
114 TP	Naphthalene	1.544	1.501	2.8	105	0.00
115 TP	1,2,3-Trichlorobenzene	0.611	0.596	2.5	101	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 7 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.836	96	343497	10.000	ug/L	0.00
Standard Area 1 = 326684			Recovery = 105.15%			
62) Chlorobenzene-d5	9.360	117	280968	10.000	ug/L	0.00
Standard Area 1 = 264570			Recovery = 106.20%			
83) 1,4-Dichlorobenzene-d4	12.107	152	143496	10.000	ug/L	0.00
Standard Area 1 = 133749			Recovery = 107.29%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.026	113	99813	10.060	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%			
46) 1,2-Dichloroethane-d4	5.549	65	107968	9.418	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.18%			
63) Toluene-d8	7.519	98	363836	10.023	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.23%			
87) 4-Bromofluorobenzene	10.874	95	144143	10.230	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	79537	13.461	ug/L	97
3) Chloromethane	1.740	50	88718	11.370	ug/L	99
4) Vinyl chloride	1.787	62	98088	11.198	ug/L	98
5) Bromomethane	2.084	94	74901	10.235	ug/L	98
6) Chloroethane	2.185	64	65435	10.352	ug/L	100
7) Trichlorofluoromethane	2.325	101	125842	10.532	ug/L	98
8) Ethyl ether	2.630	74	41343	11.710	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	63554	9.437	ug/L	83
11) Carbon disulfide	2.841	76	210670	11.981	ug/L	99
12) Freon-113	2.848	101	76422	10.352	ug/L	96
13) Iodomethane	2.950	142	70428	10.927	ug/L	94
14) Acrolein	3.129	56	9477	9.224	ug/L	100
15) Methylene chloride	3.356	84	72342	9.482	ug/L	83
17) Acetone	3.395	43	19690	10.063	ug/L	97
18) trans-1,2-Dichloroethene	3.504	96	73154	10.110	ug/L	91
19) Methyl acetate	3.512	43	27857	8.252	ug/L	97
21) Methyl tert-butyl ether	3.598	73	183409	11.463	ug/L	92
22) tert-Butyl alcohol	3.683	59	21971	43.788	ug/L #	88
24) Diisopropyl ether	3.957	45	239535	10.639	ug/L	94
25) 1,1-Dichloroethane	4.074	63	132289	9.098	ug/L	98
26) Halothane	4.128	117	58727	9.237	ug/L	100

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.128	53	21197	11.685	ug/L		98
28) Ethyl tert-butyl ether	4.300	59	237314	10.791	ug/L		87
29) Vinyl acetate	4.316	43	107215	8.644	ug/L	#	91
30) cis-1,2-Dichloroethene	4.589	96	80741	9.034	ug/L	#	85
31) 2,2-Dichloropropane	4.690	77	46603	5.549	ug/L		89
32) Bromochloromethane	4.776	128	37097	10.009	ug/L	#	87
33) Cyclohexane	4.784	56	138503	9.677	ug/L		88
34) Chloroform	4.846	83	134671	9.433	ug/L		95
35) Ethyl acetate	4.971	43	52396	9.975	ug/L		97
36) Carbon tetrachloride	4.987	117	113385	9.328	ug/L		98
37) Tetrahydrofuran	5.002	42	20289	11.018	ug/L		93
39) 1,1,1-Trichloroethane	5.049	97	122897	9.396	ug/L		96
41) 2-Butanone	5.151	43	23408	9.547	ug/L	#	80
42) 1,1-Dichloropropene	5.174	75	104226	9.522	ug/L		97
44) Benzene	5.416	78	291538	9.563	ug/L		95
45) tert-Amyl methyl ether	5.533	73	217587	10.456	ug/L		95
47) 1,2-Dichloroethane	5.620	62	72749	9.429	ug/L		98
50) Methyl cyclohexane	6.000	83	130659	8.791	ug/L		85
51) Trichloroethene	6.009	95	80373	9.318	ug/L		97
53) Dibromomethane	6.441	93	42806	9.283	ug/L	#	85
54) 1,2-Dichloropropane	6.545	63	78928	9.679	ug/L		98
56) 2-Chloroethyl vinyl ether	7.245	63	37509	10.407	ug/L		94
57) Bromodichloromethane	6.614	83	100095	9.198	ug/L		99
60) 1,4-Dioxane	6.830	88	30467	568.065	ug/L	#	78
61) cis-1,3-Dichloropropene	7.306	75	120530	9.032	ug/L	#	90
64) Toluene	7.581	92	188218	9.318	ug/L		99
65) 4-Methyl-2-pentanone	8.018	58	19766	9.988	ug/L		90
66) Tetrachloroethene	8.018	166	93800	9.375	ug/L		94
68) trans-1,3-Dichloropropene	8.057	75	96293	8.842	ug/L		87
70) Ethyl methacrylate	8.260	69	79137	10.648	ug/L		97
71) 1,1,2-Trichloroethane	8.245	83	50530	9.558	ug/L		97
72) Chlorodibromomethane	8.447	129	74313	9.505	ug/L		99
73) 1,3-Dichloropropane	8.564	76	105636	9.852	ug/L		99
74) 1,2-Dibromoethane	8.721	107	61971	9.646	ug/L		98
76) 2-Hexanone	9.025	43	32804	9.592	ug/L		96
77) Chlorobenzene	9.384	112	217795	9.594	ug/L		97
78) Ethylbenzene	9.423	91	386129	9.823	ug/L		99
79) 1,1,1,2-Tetrachloroethane	9.462	131	81515	9.781	ug/L		97
80) p/m Xylene	9.610	106	297957	18.828	ug/L		95
81) o Xylene	10.156	106	293346	19.691	ug/L		96

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2019\191219N\V22191219N08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Styrene	10.226	104	475903	19.452	ug/L		98
84) Bromoform	10.242	173	47329	9.036	ug/L		99
86) Isopropylbenzene	10.554	105	441852	9.460	ug/L		100
88) Bromobenzene	10.991	156	94626	9.743	ug/L		100
89) n-Propylbenzene	11.046	91	470682	9.649	ug/L		99
90) 1,4-Dichlorobutane	11.054	55	109571	10.538	ug/L		96
91) 1,1,2,2-Tetrachloroethane	11.124	83	72305	10.016	ug/L		100
92) 4-Ethyltoluene	11.171	105	382258	10.066	ug/L		100
93) 2-Chlorotoluene	11.210	91	307158	9.858	ug/L		100
94) 1,3,5-Trimethylbenzene	11.272	105	313000	9.437	ug/L		99
95) 1,2,3-Trichloropropane	11.265	75	58968	9.523	ug/L		99
96) trans-1,4-Dichloro-2-b...	11.327	53	18125	8.829	ug/L	#	80
97) 4-Chlorotoluene	11.397	91	268670	9.495	ug/L		99
98) tert-Butylbenzene	11.624	119	280001	9.562	ug/L		98
101) 1,2,4-Trimethylbenzene	11.702	105	319059	9.931	ug/L		98
102) sec-Butylbenzene	11.811	105	409071	9.775	ug/L		100
103) p-Isopropyltoluene	11.974	119	362093	9.965	ug/L		97
104) 1,3-Dichlorobenzene	12.030	146	183743	9.809	ug/L		98
105) 1,4-Dichlorobenzene	12.121	146	174267	9.449	ug/L		98
106) p-Diethylbenzene	12.350	119	170416	9.204	ug/L		99
107) n-Butylbenzene	12.406	91	276842	9.733	ug/L		99
108) 1,2-Dichlorobenzene	12.552	146	160102	9.615	ug/L		98
109) 1,2,4,5-Tetramethylben...	13.151	119	229671	9.277	ug/L		99
110) 1,2-Dibromo-3-chloropr...	13.332	155	11786	9.288	ug/L		95
111) 1,3,5-Trichlorobenzene	13.367	180	96875	9.304	ug/L		96
112) Hexachlorobutadiene	13.951	225	33734	9.625	ug/L		97
113) 1,2,4-Trichlorobenzene	13.972	180	94834	9.927	ug/L		98
114) Naphthalene	14.264	128	215344	9.720	ug/L		100
115) 1,2,3-Trichlorobenzene	14.432	180	85510	9.760	ug/L		97

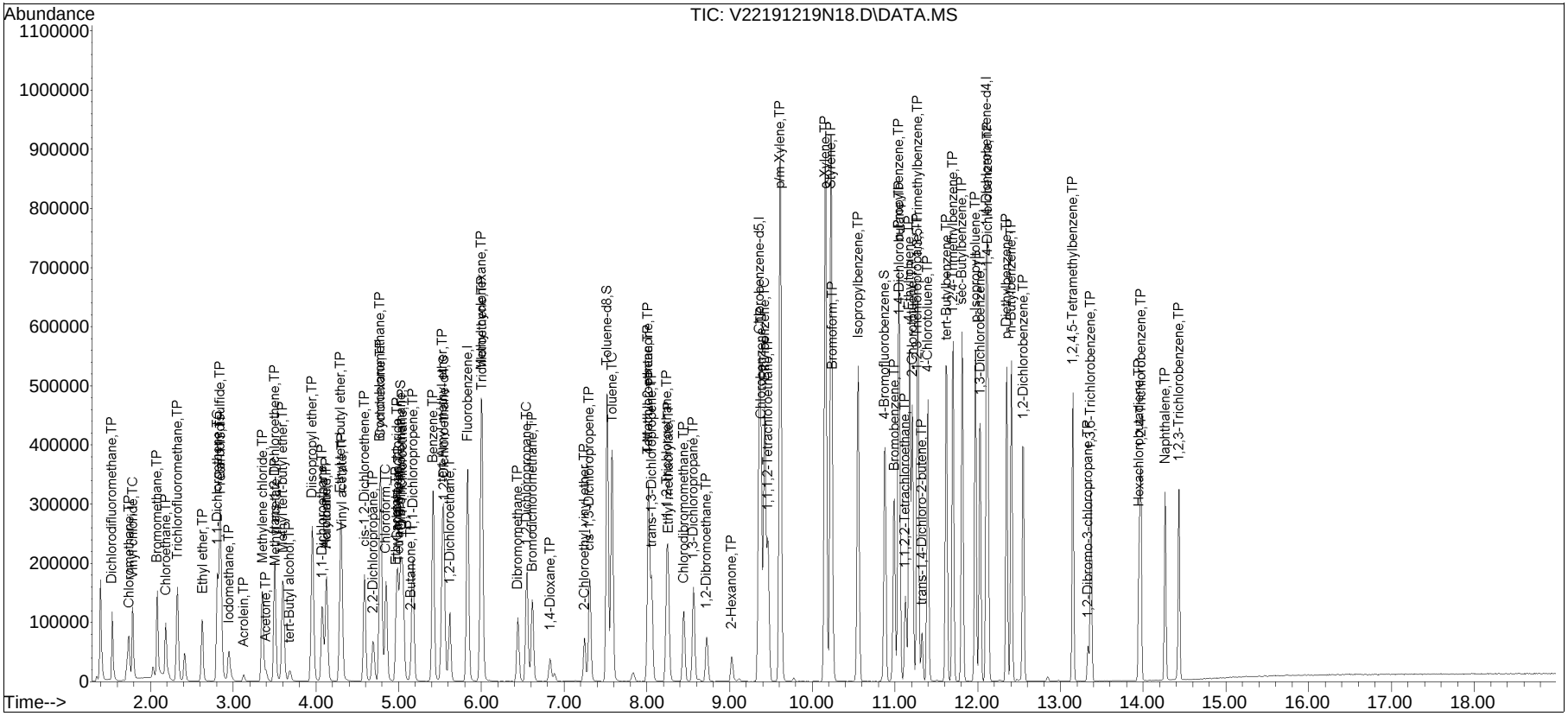
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2019\191219N\
Data File : V22191219N18.D
Acq On : 19 Dec 2019 09:58 pm
Operator : VOA122:NLK
Sample : C8260STDL10PPB
Misc : WG1323153
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 20 07:23:19 2019
Quant Method : I:\VOLATILES\VOA122\2019\191219N\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox91219N\V22191219N08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2019\1Q	Method	: V122_191219N_8260.m
Data File	: V22191219N18.D	Operator	: VOA122:NLK
Date Inj'd	: 12/19/2019 9:58 pm	Instrument	: VOA122
Sample	: C8260STDL10PPB	Quant Date	: 12/20/2019 7:23 am

There are no manual integrations or false positives in this file.

Response Factor Report VOA 101

Method Path : I:\VOLATILES\VOA101\2020\200219A\
Method File : V101_200219A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 19 21:32:55 2020
Response Via : Initial Calibration

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	ISTD									
2)	TP	Dichlorodifluo...		0.146	0.159	0.182	0.181	0.200	0.198	0.196	0.180	11.48
3)	TP	Chloromethane		0.260	0.252	0.269	0.264	0.286	0.287	0.289	0.273	5.51
4)	TC	Vinyl chloride	0.265	0.211	0.227	0.253	0.252	0.278	0.278	0.274	0.255	9.67
5)	TP	Bromomethane		0.112	0.096	0.088	0.087	0.105	0.117	0.121	0.104	13.30
6)	TP	Chloroethane		0.126	0.143	0.152	0.151	0.161	0.158	0.145	0.148	7.96
7)	TP	Trichlorofluor...		0.257	0.262	0.299	0.298	0.326	0.322	0.316	0.297	9.33
8)	TP	Ethyl ether		0.076	0.072	0.087	0.084	0.092	0.091	0.092	0.085	9.62
10)	TC	1,1-Dichloroet...		0.140	0.162	0.184	0.184	0.202	0.200	0.199	0.182	12.74
11)	TP	Carbon disulfide		0.504	0.443	0.477	0.466	0.516	0.520	0.521	0.492	6.17
12)	TP	Freon-113		0.147	0.159	0.183	0.180	0.199	0.195	0.192	0.179	10.69
13)	TP	Iodomethane		0.188	0.188	0.233	0.259	0.279	0.267	0.262	0.239	15.83
14)	TP	Acrolein			0.020	0.023	0.023	0.025	0.024	0.026	0.024#	8.39
15)	TP	Methylene chlo...		0.168	0.176	0.191	0.186	0.202	0.202	0.204	0.190	7.42
16)	TP	Isopropyl alcohol			0.006	0.006	0.006	0.006	0.006	0.007	0.006#	4.11
17)	TP	Acetone		0.148	0.054	0.038	0.034	0.034	0.033	0.034	*L	0.9997
18)	TP	trans-1,2-Dich...		0.178	0.173	0.192	0.189	0.207	0.207	0.207	0.193	7.36
19)	TP	Methyl acetate			0.111	0.097	0.088	0.094	0.089	0.087	0.095#	9.57
20)	TP	Methyl tert-bu...		0.379	0.376	0.411	0.403	0.441	0.430	0.441	0.412	6.63
21)	TP	tert-Butyl alc...		0.008	0.009	0.011	0.010	0.010	0.010	0.011	0.010#	11.06
22)	TP	Diisopropyl ether		0.641	0.662	0.735	0.710	0.767	0.751	0.744	0.716	6.65
23)	TP	1,1-Dichloroet...		0.358	0.378	0.423	0.414	0.449	0.443	0.441	0.415	8.37
24)	TP	Halothane		0.116	0.136	0.157	0.158	0.176	0.174	0.175	0.156	14.63
25)	TP	Acrylonitrile		0.029	0.035	0.044	0.044	0.047	0.046	0.048	0.042#	16.59
26)	TP	Ethyl tert-but...		0.577	0.574	0.638	0.628	0.677	0.665	0.670	0.633	6.77
27)	TP	Vinyl acetate		0.401	0.375	0.413	0.416	0.454	0.439	0.437	0.419	6.34
28)	TP	cis-1,2-Dichlo...		0.198	0.213	0.228	0.225	0.248	0.247	0.249	0.230	8.62
29)	TP	2,2-Dichloropr...		0.255	0.269	0.291	0.288	0.313	0.303	0.302	0.289	7.13
30)	TP	Bromochloromet...		0.069	0.083	0.091	0.092	0.096	0.093	0.092	0.088	10.84
31)	TP	Cyclohexane		0.374	0.386	0.439	0.441	0.485	0.473	0.468	0.438	9.83
32)	TC	Chloroform		0.302	0.323	0.356	0.362	0.396	0.395	0.395	0.361	10.39

Response Factor Report VOA 101

Method Path : I:\VOLATILES\VOA101\2020\200219A\
Method File : V101_200219A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 19 21:32:55 2020
Response Via : Initial Calibration

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
33)	TP	Ethyl acetate		0.149	0.132	0.129	0.128	0.138	0.134	0.139	0.136	5.28
34)	TP	Carbon tetrach...	0.280	0.217	0.256	0.295	0.293	0.334	0.328	0.328	0.291	13.88
35)	TP	Tetrahydrofuran			0.037	0.038	0.037	0.039	0.037	0.038	0.038#	2.10
36)	S	Dibromofluorom...	0.259	0.263	0.257	0.259	0.254	0.256	0.258	0.254	0.258	1.07
37)	TP	1,1,1-Trichlor...		0.276	0.303	0.337	0.336	0.373	0.369	0.369	0.338	10.92
38)	TP	2-Butanol			0.010	0.009	0.009	0.009	0.009	0.010	0.009#	6.29
39)	TP	2-Butanone			0.058	0.056	0.050	0.056	0.054	0.057	0.055#	5.36
40)	TP	1,1-Dichloropr...		0.228	0.253	0.289	0.291	0.324	0.319	0.320	0.289	12.66
41)	TP	Benzene	0.867	0.671	0.716	0.792	0.777	0.858	0.856	0.856	0.799	9.27
42)	TP	tert-Amyl meth...		0.440	0.424	0.468	0.456	0.505	0.498	0.510	0.471	7.14
43)	S	1,2-Dichloroet...	0.268	0.288	0.280	0.274	0.275	0.274	0.272	0.278	0.276	2.24
44)	TP	1,2-Dichloroet...		0.213	0.234	0.252	0.248	0.272	0.268	0.268	0.251	8.54
46)	TP	2-Methyl-2-but...		0.007	0.008	0.009	0.009	0.009	0.009	0.010	0.009#	11.87
47)	TP	Methyl cyclohe...		0.257	0.279	0.325	0.326	0.368	0.366	0.367	0.327	13.68
48)	TP	Trichloroethene	0.244	0.182	0.194	0.216	0.216	0.238	0.236	0.235	0.220	10.22
50)	TP	Dibromomethane		0.071	0.086	0.094	0.096	0.105	0.104	0.106	0.095	13.34
51)	TC	1,2-Dichloropr...		0.186	0.202	0.231	0.227	0.250	0.248	0.248	0.227	10.95
52)	TP	4-penten-2-ol			0.006	0.007	0.007	0.007	0.007	0.008	0.007#	9.02
53)	TP	2-Chloroethyl ...				0.057	0.064	0.077	0.073	0.079	0.070	13.11
54)	TP	Bromodichlorom...		0.224	0.232	0.257	0.257	0.288	0.286	0.288	0.262	10.21
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.05
58)	TP	cis-1,3-Dichlo...		0.277	0.288	0.318	0.320	0.352	0.348	0.349	0.322	9.42
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.416	1.429	1.437	1.432	1.418	1.427	1.432	1.437	1.429	0.55
61)	TC	Toluene		0.592	0.660	0.720	0.708	0.787	0.792	0.793	0.722	10.60
62)	TP	4-Methyl-2-pen...		0.041	0.057	0.068	0.067	0.076	0.074	0.077	0.066#	19.76
63)	TP	Tetrachloroethene		0.237	0.271	0.305	0.305	0.346	0.344	0.350	0.308	13.80
65)	TP	trans-1,3-Dich...		0.330	0.327	0.367	0.373	0.417	0.415	0.424	0.379	10.79
66)	TP	4-Methyl-2-pen...		0.033	0.034	0.036	0.036	0.036	0.035	0.039	0.036#	4.69
67)	TP	Ethyl methacry...		0.227	0.219	0.245	0.245	0.277	0.269	0.280	0.252	9.68
68)	TP	1,1,2-Trichlor...		0.135	0.150	0.167	0.161	0.180	0.178	0.183	0.165	10.76

Response Factor Report VOA 101

Method Path : I:\VOLATILES\VOA101\2020\200219A\
Method File : V101_200219A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 19 21:32:55 2020
Response Via : Initial Calibration

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
69)	TP	Chlorodibromom...		0.190	0.199	0.236	0.240	0.274	0.274	0.283	0.242	15.35
70)	TP	1,3-Dichloropr...		0.300	0.318	0.344	0.341	0.381	0.377	0.387	0.350	9.52
71)	TP	1,2-Dibromoethane		0.149	0.173	0.187	0.189	0.210	0.210	0.217	0.191	12.69
72)	TP	2-Hexanone		0.152	0.115	0.115	0.112	0.126	0.122	0.127	0.124	10.99
73)	TP	Chlorobenzene		0.662	0.705	0.765	0.754	0.837	0.838	0.841	0.772	9.19
74)	TC	Ethylbenzene		1.169	1.220	1.342	1.320	1.476	1.470	1.472	1.353	9.32
75)	TP	1,1,1,2-Tetrac...		0.229	0.251	0.273	0.277	0.311	0.311	0.315	0.281	11.81
76)	TP	p/m Xylene		0.434	0.467	0.523	0.519	0.581	0.578	0.572	0.525	10.95
77)	TP	o Xylene		0.403	0.450	0.490	0.482	0.540	0.539	0.534	0.491	10.56
78)	TP	Styrene		0.680	0.737	0.808	0.807	0.908	0.913	0.909	0.823	11.22
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.177	0.213	0.261	0.266	0.282	0.286	0.289	0.253	16.74
82)	TP	Isopropylbenzene		2.357	2.369	2.726	2.615	2.747	2.745	2.666	2.604	6.58
83)	S	4-Bromofluorob...	1.109	1.130	1.114	1.109	1.090	1.028	1.044	1.001	1.078	4.40
84)	TP	Bromobenzene		0.524	0.528	0.598	0.588	0.616	0.617	0.607	0.582	6.86
85)	TP	n-Propylbenzene		2.473	2.588	2.924	2.831	2.981	3.001	2.920	2.817	7.31
86)	TP	1,4-Dichlorobu...		0.817	0.697	0.761	0.738	0.759	0.743	0.725	0.749	4.96
87)	TP	1,1,2,2-Tetrac...		0.379	0.369	0.400	0.389	0.412	0.407	0.412	0.395	4.26
88)	TP	4-Ethyltoluene		1.974	2.093	2.374	2.298	2.464	2.496	2.427	2.304	8.61
89)	TP	2-Chlorotoluene		1.698	1.730	1.908	1.856	1.969	1.988	1.942	1.870	6.17
90)	TP	1,3,5-Trimethy...		1.764	1.872	2.070	2.002	2.138	2.162	2.104	2.016	7.35
91)	TP	1,2,3-Trichlor...		0.441	0.341	0.394	0.364	0.363	0.369	0.360	0.376	8.65
92)	TP	trans-1,4-Dich...		0.097	0.113	0.125	0.119	0.131	0.130	0.129	0.121	10.18
93)	TP	4-Chlorotoluene		1.554	1.659	1.831	1.775	1.902	1.914	1.872	1.787	7.55
94)	TP	tert-Butylbenzene		1.442	1.546	1.744	1.692	1.834	1.856	1.821	1.705	9.25
97)	TP	1,2,4-Trimethy...		1.793	1.808	1.996	1.962	2.119	2.129	2.102	1.987	7.15
98)	TP	sec-Butylbenzene		1.808	1.953	2.118	2.077	2.281	2.325	2.306	2.124	9.21
99)	TP	p-Isopropyltol...		1.731	1.747	1.953	1.921	2.116	2.156	2.133	1.965	9.10
100)	TP	1,3-Dichlorobe...		0.932	0.990	1.080	1.054	1.168	1.183	1.185	1.085	9.21
101)	TP	1,4-Dichlorobe...		1.001	0.977	1.080	1.072	1.178	1.191	1.194	1.099	8.25
102)	TP	p-Diethylbenzene		0.865	0.931	1.027	1.036	1.156	1.180	1.177	1.053	11.83

Method Path : I:\VOLATILES\VOA101\2020\200219A\
Method File : V101_200219A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 19 21:32:55 2020
Response Via : Initial Calibration

Calibration Files
L11 =V01200219A18.D L1 =V01200219A05.D L2 =V01200219A07.D L3 =V01200219A08.D L4 =V01200219A09.D
L6 =V01200219A10.D L8 =V01200219A11.D L10 =V01200219A12.D

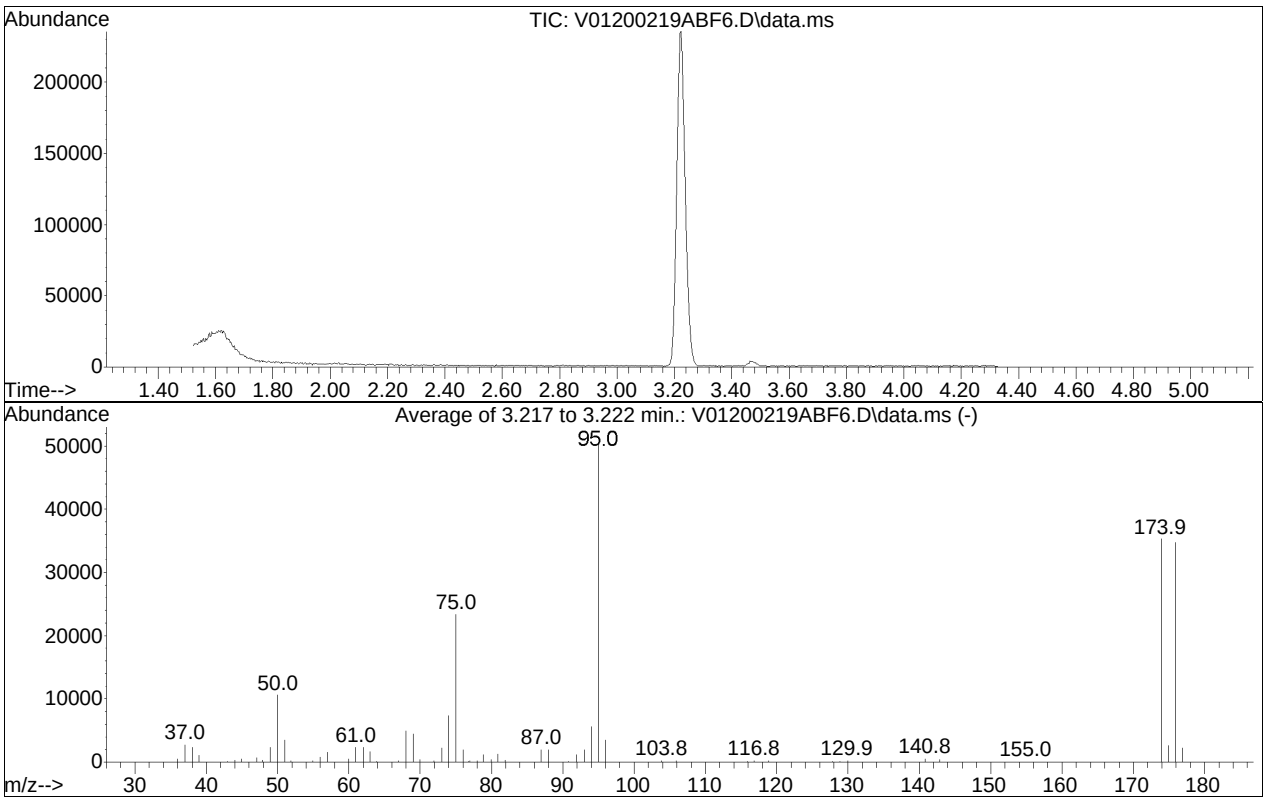
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
103) TP	n-Butylbenzene	1.269	1.296	1.411	1.406	1.576	1.616	1.625	1.457	10.25	
104) TP	1,2-Dichlorobe...	0.840	0.865	0.924	0.929	1.036	1.041	1.048	0.955	9.13	
105) TP	1,2,4,5-Tetram...	1.368	1.377	1.526	1.567	1.754	1.759	1.758	1.587	11.02	
106) TP	1,2-Dibromo-3-...		0.030	0.049	0.051	0.059	0.058	0.061	*Q	0.9994	
107) TP	1,3,5-Trichlor...	0.427	0.451	0.490	0.493	0.562	0.566	0.573	0.509	11.60	
108) TP	Hexachlorobuta...	0.129	0.134	0.136	0.142	0.160	0.172	0.174	0.150	12.54	
109) TP	1,2,4-Trichlor...	0.448	0.397	0.402	0.430	0.487	0.487	0.499	0.450	9.36	
110) TP	Naphthalene	1.297	0.867	0.851	0.900	1.033	0.998	1.036	0.998	15.33	
111) TP	1,2,3-Trichlor...	0.365	0.307	0.308	0.328	0.372	0.367	0.377	0.346	9.00	

(#) = Out of Range

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219ABF6.D
Acq On : 19 Feb 2020 1:23 pm
Operator : VOA101:PD
Sample : WG1342454-1
Misc : WG1342454
ALS Vial : 6 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 19 21:32:55 2020



AutoFind: Scans 586, 587, 588; Background Corrected with Scan 570

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	10594	PASS
75	95	30	60	46.2	23363	PASS
95	95	100	100	100.0	50536	PASS
96	95	5	9	6.8	3452	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.9	35301	PASS
175	174	5	9	7.3	2572	PASS
176	174	95	101	98.3	34704	PASS
177	176	5	9	6.4	2218	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A05.D
Acq On : 19 Feb 2020 3:13 pm
Operator : VOA101:KJD
Sample : I8260STD0.5PPB
Misc : WG1342454
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 19 21:31:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:31:36 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	212045	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 103.80%			
59) Chlorobenzene-d5	10.524	117	151840	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 104.49%			
79) 1,4-Dichlorobenzene-d4	13.323	152	72217	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 104.38%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	55709	10.199	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.99%			
43) 1,2-Dichloroethane-d4	6.323	65	61123	10.440	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.40%			
60) Toluene-d8	8.500	98	216969	10.002	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.02%			
83) 4-Bromofluorobenzene	12.030	95	81598	10.482	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.816	85	1550	0.406	ug/L #	84
3) Chloromethane	2.040	50	2757	0.477	ug/L #	91
4) Vinyl chloride	2.116	62	2235	0.414	ug/L	90
5) Bromomethane	2.465	94	1184	0.539	ug/L	96
6) Chloroethane	2.596	64	1332	0.425	ug/L	82
7) Trichlorofluoromethane	2.749	101	2722	0.432	ug/L	96
8) Ethyl ether	3.076	74	802	0.446	ug/L #	65
10) 1,1-Dichloroethene	3.289	96	1485	0.385	ug/L #	62
11) Carbon disulfide	3.322	76	5339	0.511	ug/L #	89
12) Freon-113	3.338	101	1563	0.411	ug/L #	53
13) Iodomethane	3.442	142	1990	0.392	ug/L #	83
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	3.889	84	1777	0.442	ug/L	78
16) Isopropyl alcohol	0.000		0	N.D.	d	
17) Acetone	3.928	43	1564	0.603	ug/L #	64
18) trans-1,2-Dichloroethene	4.059	96	1890	0.461	ug/L	91
19) Methyl acetate	4.069	43	2237	1.115	ug/L #	58
20) Methyl tert-butyl ether	4.162	73	4015	0.460	ug/L #	79
21) tert-Butyl alcohol	4.244	59	417	1.982	ug/L #	71
22) Diisopropyl ether	4.550	45	6793	0.448	ug/L	95
23) 1,1-Dichloroethane	4.697	63	3799	0.432	ug/L	91

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A05.D
Acq On : 19 Feb 2020 3:13 pm
Operator : VOA101:KJD
Sample : I8260STD0.5PPB
Misc : WG1342454
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 19 21:31:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:31:36 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.751	117	1227	0.371	ug/L	#	57
25) Acrylonitrile	4.746	53	312	0.351	ug/L	#	27
26) Ethyl tert-butyl ether	4.932	59	6115	0.456	ug/L		95
27) Vinyl acetate	4.948	43	4252	0.478	ug/L	#	77
28) cis-1,2-Dichloroethene	5.264	96	2094	0.430	ug/L	#	83
29) 2,2-Dichloropropane	5.379	77	2699	0.441	ug/L		87
30) Bromochloromethane	5.466	128	727	0.390	ug/L	#	73
31) Cyclohexane	5.483	56	3969	0.427	ug/L		85
32) Chloroform	5.548	83	3204	0.418	ug/L	#	95
33) Ethyl acetate	5.657	43	1578	0.549	ug/L	#	72
34) Carbon tetrachloride	5.701	117	2302	0.372	ug/L		93
35) Tetrahydrofuran	0.000		0	N.D.	d		
37) 1,1,1-Trichloroethane	5.777	97	2931	0.409	ug/L	#	94
38) 2-Butanol	0.000		0	N.D.	d		
39) 2-Butanone	0.000		0	N.D.	d		
40) 1,1-Dichloropropene	5.914	75	2422	0.395	ug/L		98
41) Benzene	6.181	78	7109	0.420	ug/L	#	93
42) tert-Amyl methyl ether	6.296	73	4665	0.467	ug/L		89
44) 1,2-Dichloroethane	6.399	62	2257	0.424	ug/L	#	93
46) 2-Methyl-2-butanol	6.497	59	352	1.913	ug/L	#	36
47) Methyl cyclohexane	6.825	83	2725	0.393	ug/L	#	77
48) Trichloroethene	6.836	95	1929	0.413	ug/L		96
50) Dibromomethane	7.311	93	758	0.377	ug/L		88
51) 1,2-Dichloropropane	7.441	63	1968	0.408	ug/L	#	94
52) 4-penten-2-ol	0.000		0	N.D.			
53) 2-Chloroethyl vinyl ether	8.184	63	219	0.148	ug/L	#	1
54) Bromodichloromethane	7.507	83	2375	0.428	ug/L	#	87
57) 1,4-Dioxane	7.731	88	2203	111.844	ug/L	#	77
58) cis-1,3-Dichloropropene	8.260	75	2941	0.431	ug/L		91
61) Toluene	8.560	92	4497	0.410	ug/L		98
62) 4-Methyl-2-pentanone	9.029	58	309	0.309	ug/L	#	1
63) Tetrachloroethene	9.057	166	1801	0.385	ug/L		85
65) trans-1,3-Dichloropropene	9.084	75	2505	0.435	ug/L		84
66) 4-Methyl-2-pentanol	9.149	45	1271	2.345	ug/L	#	74
67) Ethyl methacrylate	9.275	69	1720	0.450	ug/L	#	79
68) 1,1,2-Trichloroethane	9.302	83	1022	0.408	ug/L		97
69) Chlorodibromomethane	9.531	129	1441	0.392	ug/L	#	89
70) 1,3-Dichloropropane	9.651	76	2278	0.429	ug/L		94
71) 1,2-Dibromoethane	9.859	107	1135	0.392	ug/L		97
72) 2-Hexanone	10.148	43	1157	0.613	ug/L	#	56

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A05.D
Acq On : 19 Feb 2020 3:13 pm
Operator : VOA101:KJD
Sample : I8260STD0.5PPB
Misc : WG1342454
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 19 21:31:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:31:36 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) Chlorobenzene	10.541	112	5028	0.429	ug/L	#	72
74) Ethylbenzene	10.579	91	8873	0.432	ug/L		97
75) 1,1,1,2-Tetrachloroethane	10.617	131	1739	0.408	ug/L	#	64
76) p/m Xylene	10.764	106	6592	0.827	ug/L		99
77) o Xylene	11.305	106	6115	0.820	ug/L		98
78) Styrene	11.370	104	10323	0.826	ug/L		100
80) Bromoform	11.403	173	640	0.350	ug/L	#	55
82) Isopropylbenzene	11.687	105	8510	0.453	ug/L		96
84) Bromobenzene	12.167	156	1891	0.450	ug/L		99
85) n-Propylbenzene	12.183	91	8930	0.439	ug/L		99
86) 1,4-Dichlorobutane	12.210	55	2950	0.546	ug/L	#	83
87) 1,1,2,2-Tetrachloroethane	12.265	83	1368	0.479	ug/L	#	87
88) 4-Ethyltoluene	12.319	105	7128	0.428	ug/L		97
89) 2-Chlorotoluene	12.374	91	6130	0.454	ug/L	#	88
90) 1,3,5-Trimethylbenzene	12.412	105	6368	0.437	ug/L		99
91) 1,2,3-Trichloropropane	12.429	75	1591M1	0.586	ug/L		
92) trans-1,4-Dichloro-2-b...	12.472	53	350	0.402	ug/L	#	1
93) 4-Chlorotoluene	12.570	91	5613	0.435	ug/L		98
94) tert-Butylbenzene	12.783	119	5206	0.423	ug/L		98
97) 1,2,4-Trimethylbenzene	12.865	105	6473	0.451	ug/L		98
98) sec-Butylbenzene	12.985	105	6528	0.426	ug/L		95
99) p-Isopropyltoluene	13.143	119	6251	0.440	ug/L		96
100) 1,3-Dichlorobenzene	13.252	146	3365	0.430	ug/L		100
101) 1,4-Dichlorobenzene	13.340	146	3616M3	0.456	ug/L		
102) p-Diethylbenzene	13.547	119	3124	0.411	ug/L		95
103) n-Butylbenzene	13.618	91	4582	0.435	ug/L		98
104) 1,2-Dichlorobenzene	13.809	146	3032	0.440	ug/L		96
105) 1,2,4,5-Tetramethylben...	14.420	119	4938	0.431	ug/L		96
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
107) 1,3,5-Trichlorobenzene	14.698	180	1541	0.419	ug/L		97
108) Hexachlorobutadiene	15.337	225	466	0.431	ug/L	#	35
109) 1,2,4-Trichlorobenzene	15.386	180	1616	0.497	ug/L	#	87
110) Naphthalene	15.741	128	4683	0.650	ug/L		100
111) 1,2,3-Trichlorobenzene	15.959	180	1318	0.527	ug/L	#	57

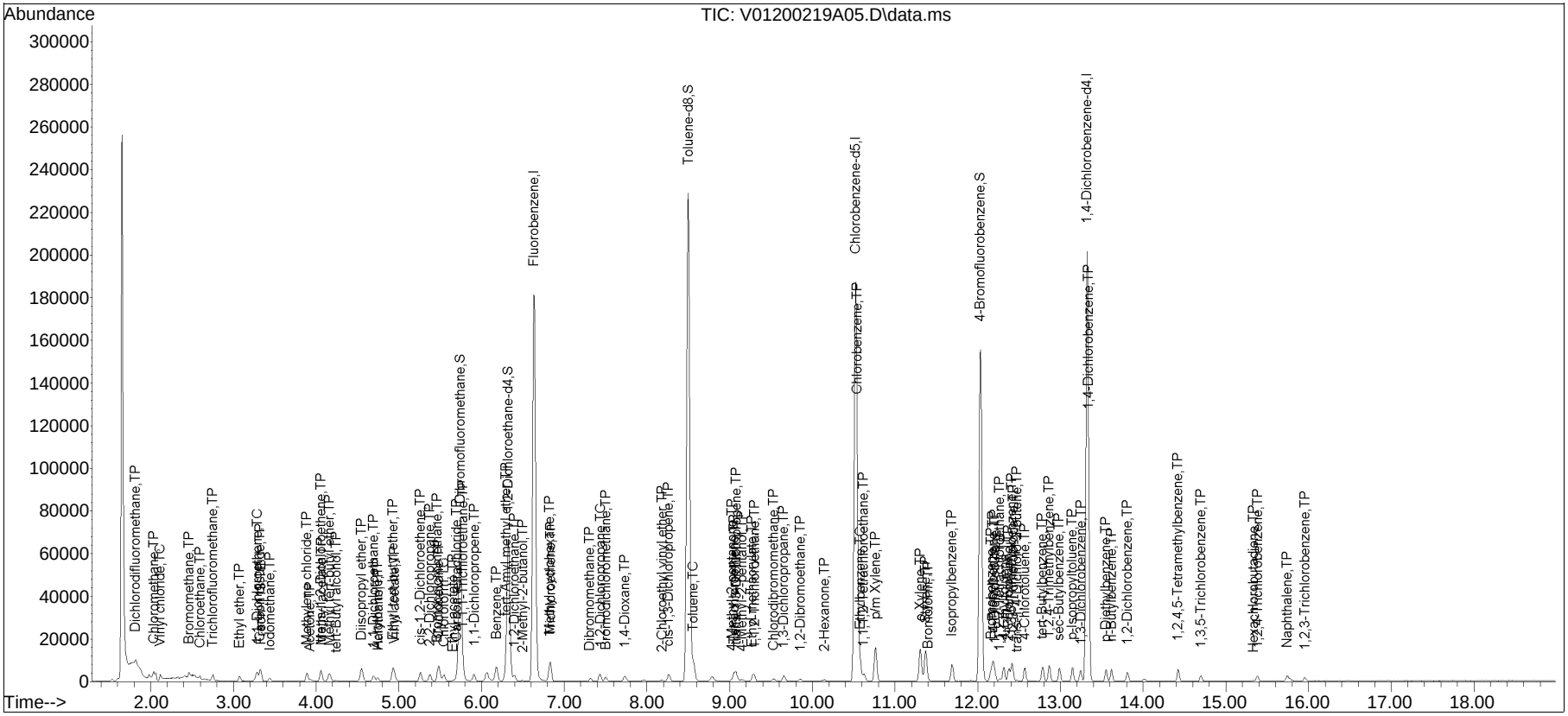
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A05.D
Acq On : 19 Feb 2020 3:13 pm
Operator : VOA101:KJD
Sample : I8260STD0.5PPB
Misc : WG1342454
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 19 21:31:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:31:36 2020
Response via : Initial Calibration

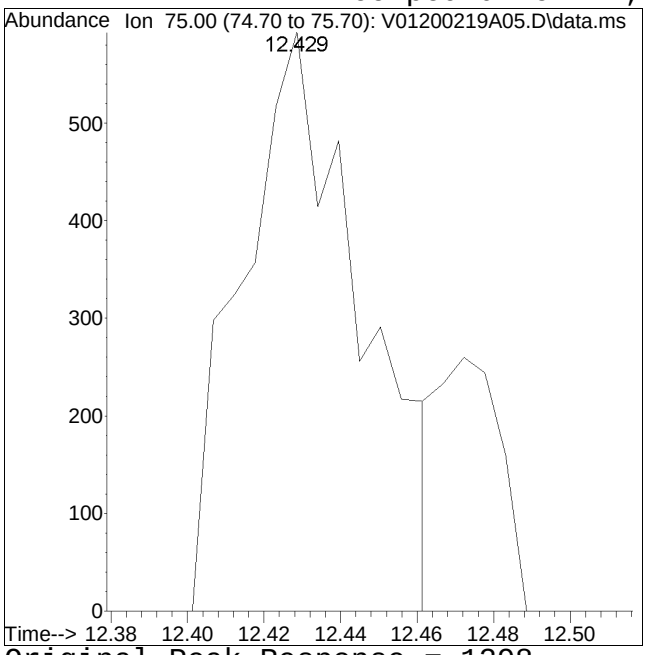
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•

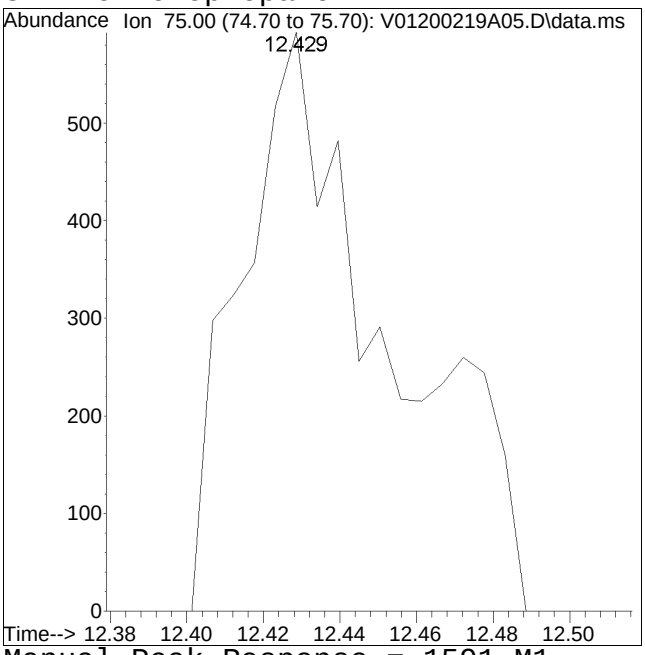


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A05.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 3:13 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/19/2020 9:31 pm

Compound #91: 1,2,3-Trichloropropane





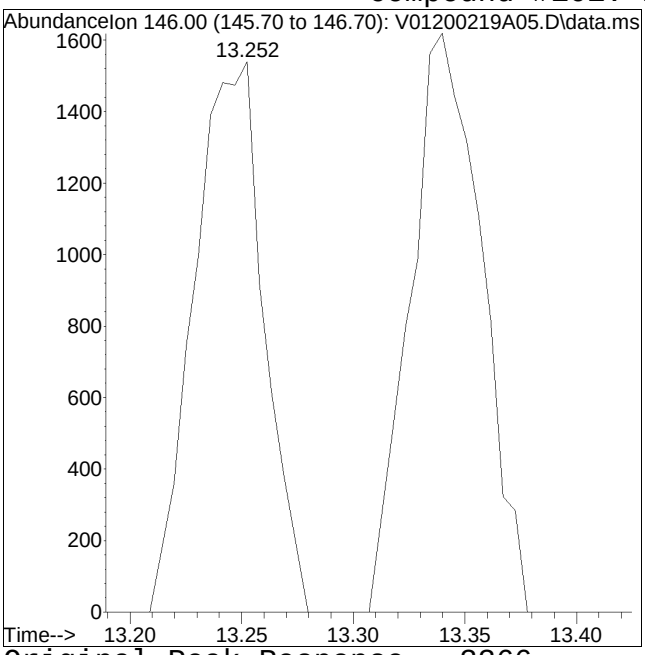
Original Peak Response = 1298 Manual Peak Response = 1591 M1

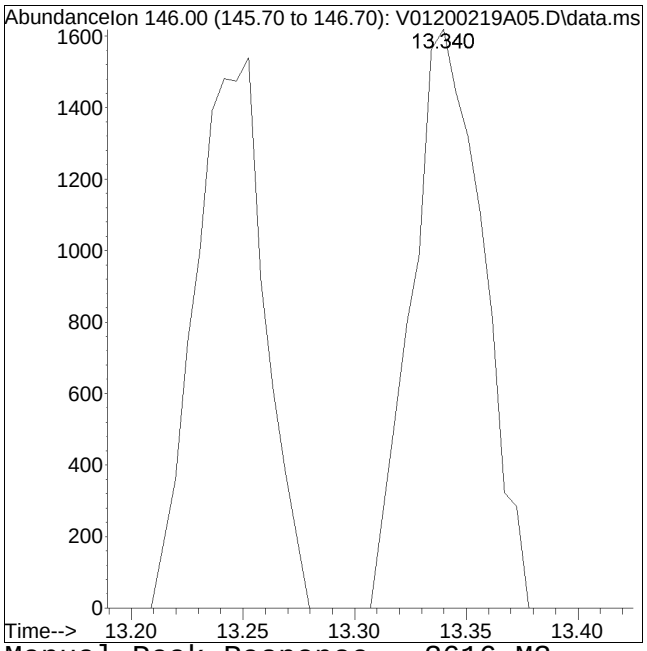
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A05.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 3:13 pm Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/19/2020 9:31 pm

Compound #101: 1,4-Dichlorobenzene





Original Peak Response = 3366 Manual Peak Response = 3616 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A07.D
Acq On : 19 Feb 2020 4:00 pm
Operator : VOA101:KJD
Sample : I8260STD2.0PPB
Misc : WG1342454
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 19 21:33:08 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:33:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	206497	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 101.09%			
59) Chlorobenzene-d5	10.524	117	146191	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 100.61%			
79) 1,4-Dichlorobenzene-d4	13.323	152	71185	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 102.89%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	53062	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.75%			
43) 1,2-Dichloroethane-d4	6.323	65	57886	10.153	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.53%			
60) Toluene-d8	8.500	98	210052	10.058	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.58%			
83) 4-Bromofluorobenzene	12.036	95	79265	10.330	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	6547	1.760	ug/L	98
3) Chloromethane	2.034	50	10396	1.847	ug/L	98
4) Vinyl chloride	2.116	62	9387	1.784	ug/L	95
5) Bromomethane	2.465	94	3953	1.849	ug/L	99
6) Chloroethane	2.596	64	5893	1.931	ug/L	95
7) Trichlorofluoromethane	2.749	101	10836	1.766	ug/L	98
8) Ethyl ether	3.076	74	2971	1.697	ug/L #	66
10) 1,1-Dichloroethene	3.295	96	6697	1.785	ug/L #	81
11) Carbon disulfide	3.327	76	18310	1.801	ug/L	98
12) Freon-113	3.338	101	6584	1.779	ug/L	85
13) Iodomethane	3.442	142	7747	1.567	ug/L	97
14) Acrolein	3.627	56	836	1.720	ug/L	97
15) Methylene chloride	3.889	84	7252	1.852	ug/L	88
16) Isopropyl alcohol	3.791	45	1240	9.389	ug/L #	89
17) Acetone	3.928	43	2233	1.644	ug/L #	76
18) trans-1,2-Dichloroethene	4.059	96	7153	1.791	ug/L	90
19) Methyl acetate	4.064	43	4593	2.352	ug/L #	77
20) Methyl tert-butyl ether	4.157	73	15533	1.828	ug/L	91
21) tert-Butyl alcohol	4.239	59	1865	9.100	ug/L	93
22) Diisopropyl ether	4.550	45	27354	1.851	ug/L	95
23) 1,1-Dichloroethane	4.697	63	15618	1.822	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A07.D
Acq On : 19 Feb 2020 4:00 pm
Operator : VOA101:KJD
Sample : I8260STD2.0PPB
Misc : WG1342454
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 19 21:33:08 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:33:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.746	117	5602	1.740	ug/L		97
25) Acrylonitrile	4.735	53	1450	1.676	ug/L		99
26) Ethyl tert-butyl ether	4.932	59	23721	1.816	ug/L		95
27) Vinyl acetate	4.942	43	15486	1.789	ug/L	#	93
28) cis-1,2-Dichloroethene	5.264	96	8795	1.855	ug/L		87
29) 2,2-Dichloropropane	5.384	77	11105	1.862	ug/L		96
30) Bromochloromethane	5.472	128	3410	1.877	ug/L	#	81
31) Cyclohexane	5.483	56	15936	1.761	ug/L		86
32) Chloroform	5.548	83	13336	1.787	ug/L		99
33) Ethyl acetate	5.668	43	5438	1.943	ug/L	#	56
34) Carbon tetrachloride	5.712	117	10565	1.755	ug/L		94
35) Tetrahydrofuran	5.728	42	1525	1.955	ug/L	#	50
37) 1,1,1-Trichloroethane	5.777	97	12528	1.797	ug/L		96
38) 2-Butanol	5.712	45	2139	11.025	ug/L	#	39
39) 2-Butanone	5.876	43	2392	2.100	ug/L	#	36
40) 1,1-Dichloropropene	5.908	75	10453	1.750	ug/L		98
41) Benzene	6.181	78	29564	1.792	ug/L		93
42) tert-Amyl methyl ether	6.290	73	17495	1.797	ug/L		93
44) 1,2-Dichloroethane	6.405	62	9684	1.870	ug/L		97
46) 2-Methyl-2-butanol	6.492	59	1648	9.199	ug/L		94
47) Methyl cyclohexane	6.825	83	11513	1.707	ug/L	#	78
48) Trichloroethene	6.830	95	8006	1.761	ug/L		99
50) Dibromomethane	7.316	93	3548	1.813	ug/L		98
51) 1,2-Dichloropropane	7.436	63	8352	1.779	ug/L		97
52) 4-penten-2-ol	7.365	45	1179	8.399	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.178	63	1738	1.204	ug/L	#	73
54) Bromodichloromethane	7.502	83	9577	1.772	ug/L		95
57) 1,4-Dioxane	7.731	88	7575	394.907	ug/L	#	87
58) cis-1,3-Dichloropropene	8.265	75	11882	1.788	ug/L		96
61) Toluene	8.566	92	19285	1.828	ug/L		97
62) 4-Methyl-2-pentanone	9.024	58	1674	1.741	ug/L	#	79
63) Tetrachloroethene	9.062	166	7937	1.761	ug/L		98
65) trans-1,3-Dichloropropene	9.084	75	9562	1.726	ug/L		81
66) 4-Methyl-2-pentanol	9.138	45	5009	9.601	ug/L	#	88
67) Ethyl methacrylate	9.275	69	6391	1.737	ug/L		95
68) 1,1,2-Trichloroethane	9.297	83	4396	1.822	ug/L		97
69) Chlorodibromomethane	9.526	129	5826	1.645	ug/L		96
70) 1,3-Dichloropropane	9.657	76	9294	1.818	ug/L		98
71) 1,2-Dibromoethane	9.853	107	5052	1.811	ug/L		99
72) 2-Hexanone	10.137	43	3368	1.855	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A07.D
Acq On : 19 Feb 2020 4:00 pm
Operator : VOA101:KJD
Sample : I8260STD2.0PPB
Misc : WG1342454
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 19 21:33:08 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:33:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) Chlorobenzene	10.546	112	20616	1.827	ug/L		97
74) Ethylbenzene	10.579	91	35685	1.805	ug/L		100
75) 1,1,1,2-Tetrachloroethane	10.623	131	7341	1.787	ug/L		99
76) p/m Xylene	10.764	106	27329	3.561	ug/L		100
77) o Xylene	11.305	106	26289	3.662	ug/L		97
78) Styrene	11.370	104	43097	3.581	ug/L		99
80) Bromoform	11.403	173	3032	1.681	ug/L		94
82) Isopropylbenzene	11.687	105	33722	1.820	ug/L		99
84) Bromobenzene	12.161	156	7514	1.813	ug/L		98
85) n-Propylbenzene	12.183	91	36840	1.837	ug/L		100
86) 1,4-Dichlorobutane	12.205	55	9928	1.863	ug/L		100
87) 1,1,2,2-Tetrachloroethane	12.270	83	5253	1.867	ug/L		93
88) 4-Ethyltoluene	12.314	105	29798	1.817	ug/L		99
89) 2-Chlorotoluene	12.374	91	24630	1.850	ug/L		92
90) 1,3,5-Trimethylbenzene	12.412	105	26650	1.857	ug/L		100
91) 1,2,3-Trichloropropane	12.429	75	4848M4	1.811	ug/L		
92) trans-1,4-Dichloro-2-b...	12.478	53	1607	1.872	ug/L	#	9
93) 4-Chlorotoluene	12.570	91	23617	1.857	ug/L		95
94) tert-Butylbenzene	12.783	119	22012	1.814	ug/L		98
97) 1,2,4-Trimethylbenzene	12.865	105	25741	1.820	ug/L		99
98) sec-Butylbenzene	12.985	105	27800	1.839	ug/L		97
99) p-Isopropyltoluene	13.143	119	24868	1.778	ug/L		97
100) 1,3-Dichlorobenzene	13.247	146	14095	1.826	ug/L		98
101) 1,4-Dichlorobenzene	13.340	146	13905M3	1.778	ug/L		
102) p-Diethylbenzene	13.553	119	13259	1.768	ug/L		95
103) n-Butylbenzene	13.618	91	18446	1.778	ug/L		98
104) 1,2-Dichlorobenzene	13.815	146	12321	1.813	ug/L		98
105) 1,2,4,5-Tetramethylben...	14.426	119	19605	1.735	ug/L		96
106) 1,2-Dibromo-3-chloropr...	14.666	155	425	2.087	ug/L	#	64
107) 1,3,5-Trichlorobenzene	14.698	180	6422	1.773	ug/L		98
108) Hexachlorobutadiene	15.342	225	1905	1.788	ug/L		93
109) 1,2,4-Trichlorobenzene	15.375	180	5650	1.764	ug/L		99
110) Naphthalene	15.741	128	12346	1.739	ug/L		100
111) 1,2,3-Trichlorobenzene	15.964	180	4364	1.771	ug/L		96

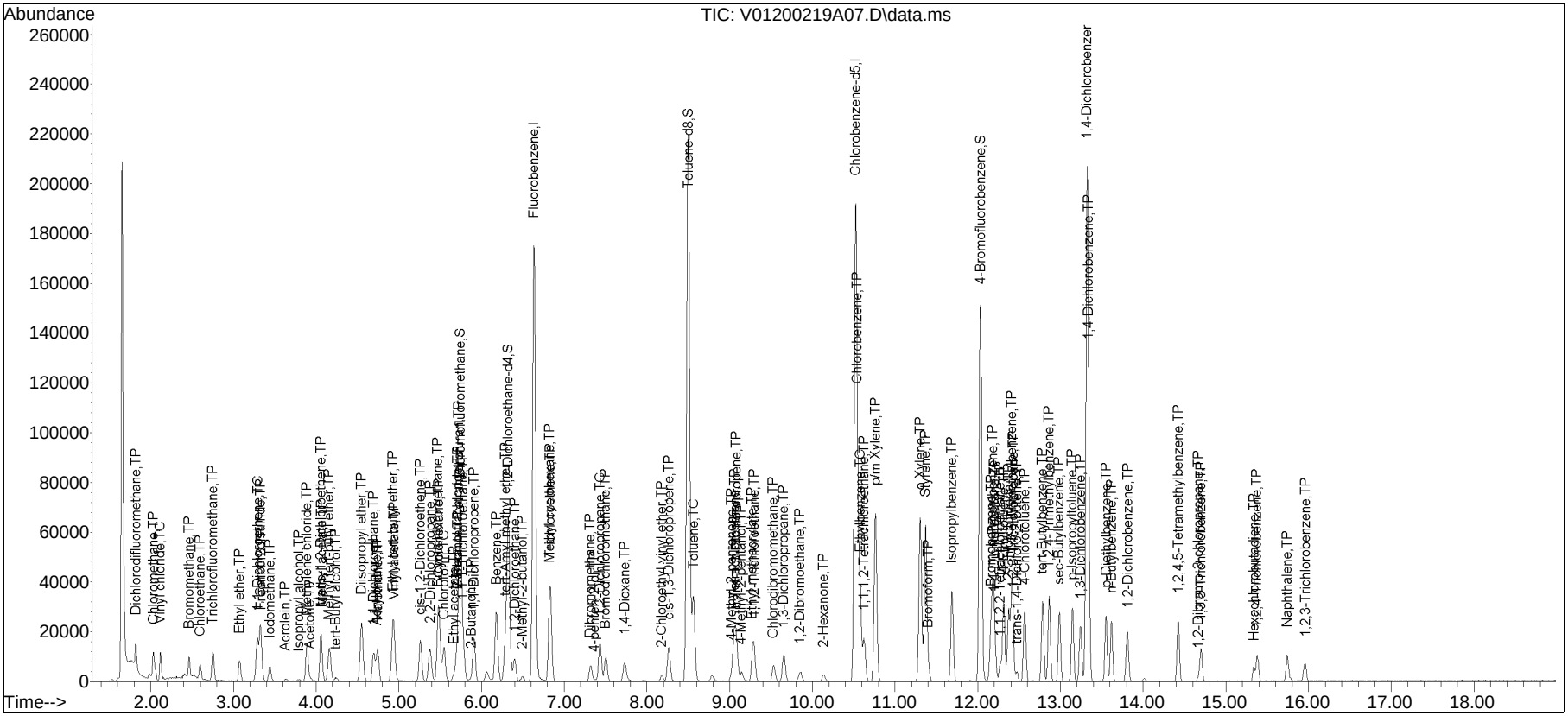
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A07.D
Acq On : 19 Feb 2020 4:00 pm
Operator : VOA101:KJD
Sample : I8260STD2.0PPB
Misc : WG1342454
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 19 21:33:08 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:33:03 2020
Response via : Initial Calibration

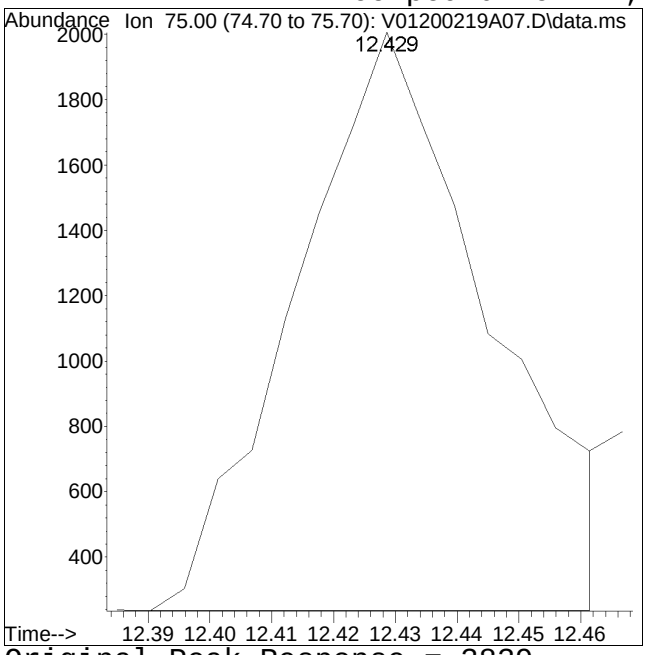
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•



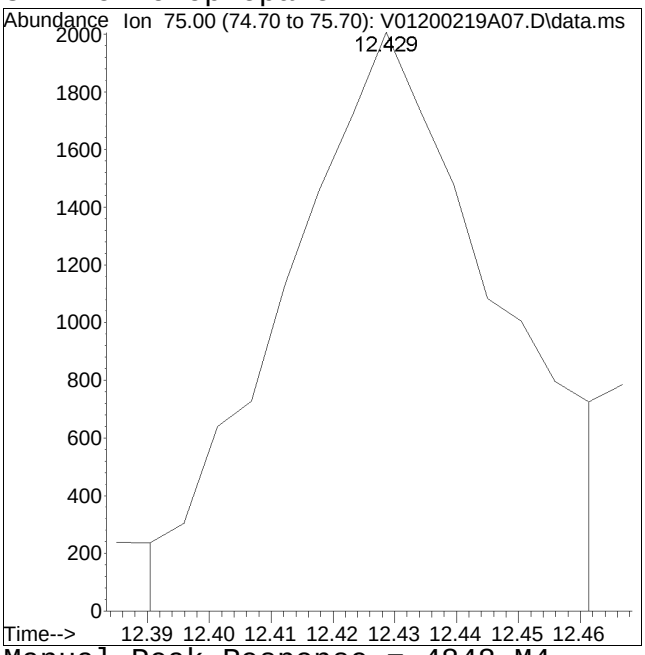
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A07.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 4:00 pm Instrument : VOA 101
Sample : I8260STD2.0PPB Quant Date : 2/19/2020 9:33 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 3839



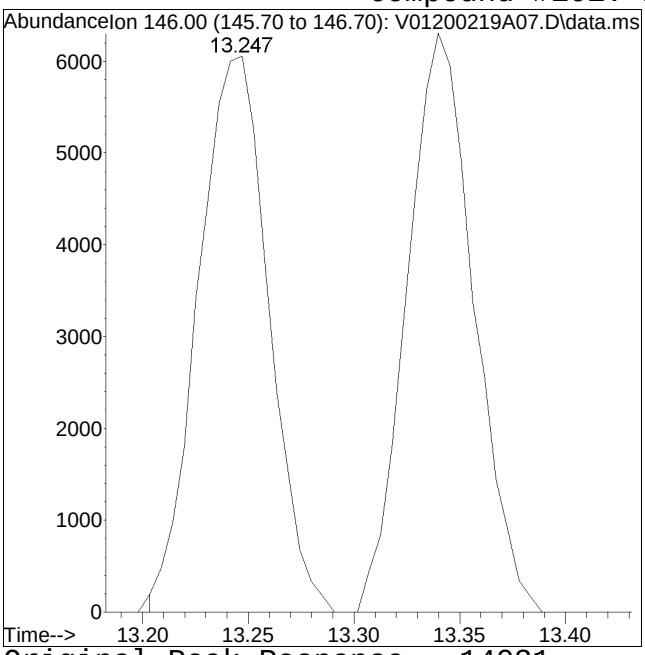
Manual Peak Response = 4848 M4

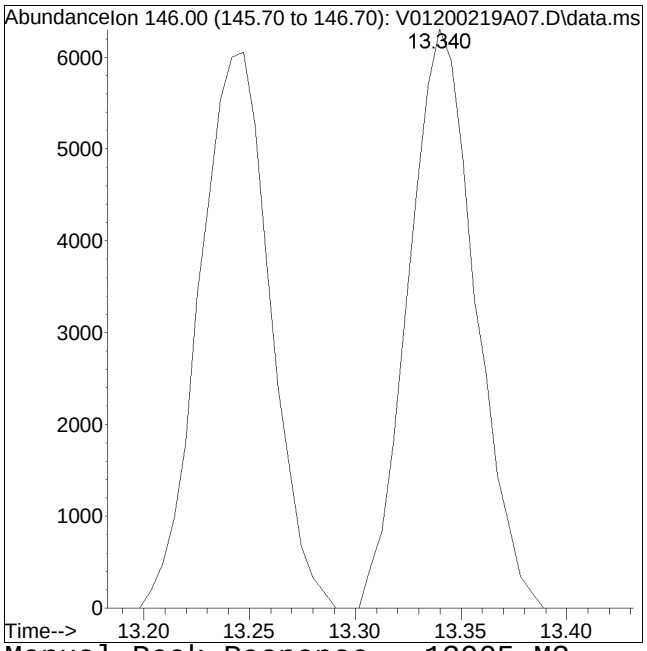
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A07.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 4:00 pm Instrument : VOA 101
Sample : I8260STD2.0PPB Quant Date : 2/19/2020 9:33 pm

Compound #101: 1,4-Dichlorobenzene





Original Peak Response = 14031 Manual Peak Response = 13905 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A08.D
Acq On : 19 Feb 2020 4:24 pm
Operator : VOA101:KJD
Sample : I8260STD10PPB
Misc : WG1342454
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 19 16:49:18 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 16:47:40 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	204276	10.000	ug/L	-0.01
Standard Area 1 = 204276			Recovery = 100.00%			
59) Chlorobenzene-d5	10.524	117	145309	10.000	ug/L	-0.01
Standard Area 1 = 145309			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	13.323	152	69187	10.000	ug/L	-0.01
Standard Area 1 = 69187			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	52893	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
43) 1,2-Dichloroethane-d4	6.323	65	55895	10.000	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
60) Toluene-d8	8.500	98	208136	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
83) 4-Bromofluorobenzene	12.030	95	76694	10.000	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	37124	10.000	ug/L	99
3) Chloromethane	2.034	50	55034	10.000	ug/L	99
4) Vinyl chloride	2.116	62	51753	10.000	ug/L	100
5) Bromomethane	2.465	94	17997	10.000	ug/L	99
6) Chloroethane	2.602	64	31083	10.000	ug/L	98
7) Trichlorofluoromethane	2.754	101	61117	10.000	ug/L	99
8) Ethyl ether	3.076	74	17709	10.000	ug/L	80
10) 1,1-Dichloroethene	3.289	96	37529	10.000	ug/L	84
11) Carbon disulfide	3.322	76	97437	10.000	ug/L	99
12) Freon-113	3.333	101	37333	10.000	ug/L	92
13) Iodomethane	3.442	142	47613	10.000	ug/L	98
14) Acrolein	3.633	56	4704	10.000	ug/L	97
15) Methylene chloride	3.889	84	38965	10.000	ug/L	86
16) Isopropyl alcohol	3.791	45	6621	50.000	ug/L	97
17) Acetone	3.928	43	7766	10.000	ug/L	92
18) trans-1,2-Dichloroethene	4.064	96	39285	10.000	ug/L	89
19) Methyl acetate	4.059	43	19915	10.000	ug/L #	89
20) Methyl tert-butyl ether	4.162	73	83925	10.000	ug/L	94
21) tert-Butyl alcohol	4.244	59	10786	50.000	ug/L	94
22) Diisopropyl ether	4.550	45	150134	10.000	ug/L	93
23) 1,1-Dichloroethane	4.697	63	86370	10.000	ug/L	98

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A08.D
Acq On : 19 Feb 2020 4:24 pm
Operator : VOA101:KJD
Sample : I8260STD10PPB
Misc : WG1342454
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 19 16:49:18 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 16:47:40 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.746	117	32119	10.000	ug/L		99
25) Acrylonitrile	4.735	53	8987	10.000	ug/L		94
26) Ethyl tert-butyl ether	4.932	59	130256	10.000	ug/L		94
27) Vinyl acetate	4.942	43	84331	10.000	ug/L		97
28) cis-1,2-Dichloroethene	5.264	96	46531	10.000	ug/L		87
29) 2,2-Dichloropropane	5.374	77	59515	10.000	ug/L		98
30) Bromochloromethane	5.472	128	18680	10.000	ug/L		86
31) Cyclohexane	5.488	56	89684	10.000	ug/L		88
32) Chloroform	5.548	83	72779	10.000	ug/L		99
33) Ethyl acetate	5.663	43	26348	10.000	ug/L	#	93
34) Carbon tetrachloride	5.706	117	60340	10.000	ug/L		97
35) Tetrahydrofuran	5.723	42	7815	10.000	ug/L		95
37) 1,1,1-Trichloroethane	5.777	97	68802	10.000	ug/L		97
38) 2-Butanol	5.701	45	8907	50.000	ug/L	#	80
39) 2-Butanone	5.865	43	11500	10.000	ug/L	#	48
40) 1,1-Dichloropropene	5.908	75	59096	10.000	ug/L		98
41) Benzene	6.181	78	161807	10.000	ug/L		94
42) tert-Amyl methyl ether	6.290	73	95576	10.000	ug/L		95
44) 1,2-Dichloroethane	6.399	62	51556	10.000	ug/L		99
46) 2-Methyl-2-butanol	6.498	59	9194	50.000	ug/L		99
47) Methyl cyclohexane	6.825	83	66304	10.000	ug/L	#	80
48) Trichloroethene	6.830	95	44195	10.000	ug/L		98
50) Dibromomethane	7.316	93	19218	10.000	ug/L		99
51) 1,2-Dichloropropane	7.431	63	47274	10.000	ug/L		96
52) 4-penten-2-ol	7.365	45	6859	50.000	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.173	63	11611	10.000	ug/L		92
54) Bromodichloromethane	7.507	83	52544	10.000	ug/L		98
57) 1,4-Dioxane	7.736	88	9678	500.000	ug/L	#	85
58) cis-1,3-Dichloropropene	8.265	75	65048	10.000	ug/L		97
61) Toluene	8.560	92	104575	10.000	ug/L		97
62) 4-Methyl-2-pentanone	9.024	58	9824	10.000	ug/L		95
63) Tetrachloroethene	9.057	166	44308	10.000	ug/L		99
65) trans-1,3-Dichloropropene	9.084	75	53326	10.000	ug/L		87
66) 4-Methyl-2-pentanol	9.138	45	26062	50.000	ug/L		92
67) Ethyl methacrylate	9.280	69	35623	10.000	ug/L		99
68) 1,1,2-Trichloroethane	9.297	83	24276	10.000	ug/L		100
69) Chlorodibromomethane	9.531	129	34246	10.000	ug/L		98
70) 1,3-Dichloropropane	9.657	76	50035	10.000	ug/L		100
71) 1,2-Dibromoethane	9.853	107	27170	10.000	ug/L		99
72) 2-Hexanone	10.131	43	16701	10.000	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A08.D
Acq On : 19 Feb 2020 4:24 pm
Operator : VOA101:KJD
Sample : I8260STD10PPB
Misc : WG1342454
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 19 16:49:18 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 16:47:40 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	Chlorobenzene	10.546	112	111228	10.000	ug/L		98
74)	Ethylbenzene	10.579	91	195036	10.000	ug/L		98
75)	1,1,1,2-Tetrachloroethane	10.623	131	39661	10.000	ug/L		98
76)	p/m Xylene	10.764	106	151912	20.000	ug/L		98
77)	o Xylene	11.305	106	142436	20.000	ug/L		97
78)	Styrene	11.370	104	234716	20.000	ug/L		100
80)	Bromoform	11.408	173	18054	10.000	ug/L		100
82)	Isopropylbenzene	11.687	105	188615	10.000	ug/L		99
84)	Bromobenzene	12.161	156	41349	10.000	ug/L		99
85)	n-Propylbenzene	12.189	91	202326	10.000	ug/L		99
86)	1,4-Dichlorobutane	12.210	55	52647	10.000	ug/L		98
87)	1,1,2,2-Tetrachloroethane	12.270	83	27682	10.000	ug/L		99
88)	4-Ethyltoluene	12.314	105	164229	10.000	ug/L		100
89)	2-Chlorotoluene	12.374	91	132022	10.000	ug/L		95
90)	1,3,5-Trimethylbenzene	12.412	105	143224	10.000	ug/L		100
91)	1,2,3-Trichloropropane	12.429	75	27248	10.000	ug/L		88
92)	trans-1,4-Dichloro-2-b...	12.467	53	8672	10.000	ug/L	#	15
93)	4-Chlorotoluene	12.565	91	126692	10.000	ug/L		96
94)	tert-Butylbenzene	12.783	119	120652	10.000	ug/L		98
97)	1,2,4-Trimethylbenzene	12.865	105	138087	10.000	ug/L		99
98)	sec-Butylbenzene	12.985	105	146532	10.000	ug/L		99
99)	p-Isopropyltoluene	13.149	119	135131	10.000	ug/L		97
100)	1,3-Dichlorobenzene	13.242	146	74721	10.000	ug/L		98
101)	1,4-Dichlorobenzene	13.340	146	74716	10.000	ug/L		99
102)	p-Diethylbenzene	13.547	119	71073	10.000	ug/L		97
103)	n-Butylbenzene	13.618	91	97642	10.000	ug/L		98
104)	1,2-Dichlorobenzene	13.809	146	63947	10.000	ug/L		98
105)	1,2,4,5-Tetramethylben...	14.426	119	105594	10.000	ug/L		97
106)	1,2-Dibromo-3-chloropr...	14.671	155	3405	10.000	ug/L		97
107)	1,3,5-Trichlorobenzene	14.698	180	33913	10.000	ug/L		96
108)	Hexachlorobutadiene	15.337	225	9420	10.000	ug/L		98
109)	1,2,4-Trichlorobenzene	15.375	180	27823	10.000	ug/L		96
110)	Naphthalene	15.741	128	58893	10.000	ug/L		100
111)	1,2,3-Trichlorobenzene	15.953	180	21278	10.000	ug/L		96

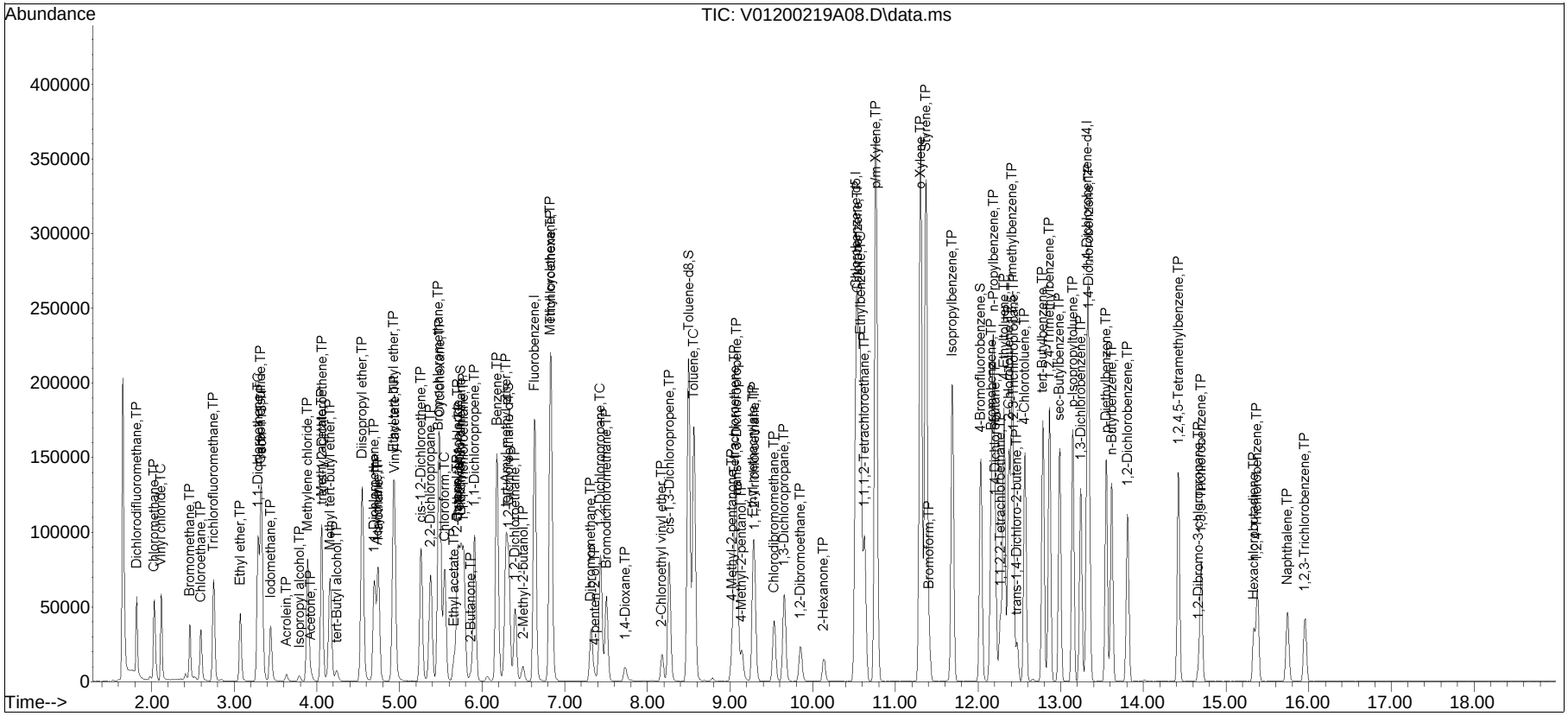
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A08.D
Acq On : 19 Feb 2020 4:24 pm
Operator : VOA101:KJD
Sample : I8260STD10PPB
Misc : WG1342454
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 19 16:49:18 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 16:47:40 2020
Response via : Initial Calibration

Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2020\2Q	Method	: V101_200219A_8260.m
Data File	: V01200219A08.D	Operator	: VOA101:KJD
Date Inj'd	: 2/19/2020 4:24 pm	Instrument	: VOA 101
Sample	: I8260STD10PPB	Quant Date	: 2/19/2020 4:47 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A09.D
Acq On : 19 Feb 2020 4:48 pm
Operator : VOA101:KJD
Sample : I8260STD30PPB
Misc : WG1342454
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 19 18:17:00 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	207774	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 101.71%			
59) Chlorobenzene-d5	10.524	117	148467	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 102.17%			
79) 1,4-Dichlorobenzene-d4	13.323	152	72338	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 104.55%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	52877	9.818	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.18%			
43) 1,2-Dichloroethane-d4	6.323	65	57154	9.796	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.96%			
60) Toluene-d8	8.495	98	210563	9.905	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.05%			
83) 4-Bromofluorobenzene	12.030	95	78874	9.727	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.27%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	112686	33.447	ug/L	100
3) Chloromethane	2.034	50	164570	30.418	ug/L	99
4) Vinyl chloride	2.116	62	157040	18.396	ug/L	100
5) Bromomethane	2.465	94	54021	26.397	ug/L	99
6) Chloroethane	2.596	64	93818	32.216	ug/L	96
7) Trichlorofluoromethane	2.749	101	185999	32.819	ug/L	98
8) Ethyl ether	3.076	74	52401	32.296	ug/L	79
10) 1,1-Dichloroethene	3.289	96	114574	34.044	ug/L	87
11) Carbon disulfide	3.322	76	290747	29.482	ug/L	99
12) Freon-113	3.333	101	111928	33.009	ug/L	92
13) Iodomethane	3.442	142	161681	38.373	ug/L	99
14) Acrolein	3.628	56	14166	31.514	ug/L	95
15) Methylene chloride	3.889	84	116134	31.404	ug/L	86
16) Isopropyl alcohol	3.780	45	19681	151.711	ug/L	94
17) Acetone	3.928	43	21460	12.932	ug/L	92
18) trans-1,2-Dichloroethene	4.059	96	117721	31.258	ug/L	88
19) Methyl acetate	4.059	43	54986	18.917	ug/L	92
20) Methyl tert-butyl ether	4.162	73	251231	31.120	ug/L	94
21) tert-Butyl alcohol	4.239	59	31437	165.311	ug/L	91
22) Diisopropyl ether	4.550	45	442302	31.336	ug/L	93
23) 1,1-Dichloroethane	4.697	63	257938	32.126	ug/L	98

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A09.D
Acq On : 19 Feb 2020 4:48 pm
Operator : VOA101:KJD
Sample : I8260STD30PPB
Misc : WG1342454
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 19 18:17:00 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.741	117	98475	34.798	ug/L		99
25) Acrylonitrile	4.741	53	27222	36.215	ug/L		95
26) Ethyl tert-butyl ether	4.932	59	391444	31.597	ug/L		96
27) Vinyl acetate	4.942	43	259300	31.493	ug/L		99
28) cis-1,2-Dichloroethene	5.259	96	140284	31.736	ug/L		88
29) 2,2-Dichloropropane	5.379	77	179555	31.818	ug/L		98
30) Bromochloromethane	5.472	128	57442	34.190	ug/L		89
31) Cyclohexane	5.488	56	275120	33.124	ug/L		87
32) Chloroform	5.548	83	225564	33.186	ug/L		97
33) Ethyl acetate	5.657	43	79893	28.170	ug/L	#	93
34) Carbon tetrachloride	5.706	117	182410	19.106	ug/L		95
35) Tetrahydrofuran	5.717	42	22974	29.414	ug/L		99
37) 1,1,1-Trichloroethane	5.777	97	209213	32.956	ug/L		98
38) 2-Butanol	5.701	45	27833	140.424	ug/L	#	80
39) 2-Butanone	5.865	43	30980	26.109	ug/L	#	50
40) 1,1-Dichloropropene	5.908	75	181208	33.942	ug/L		98
41) Benzene	6.176	78	484584	18.175	ug/L		94
42) tert-Amyl methyl ether	6.290	73	284247	30.824	ug/L		94
44) 1,2-Dichloroethane	6.399	62	154509	31.882	ug/L		99
46) 2-Methyl-2-butanol	6.492	59	29203	178.498	ug/L		97
47) Methyl cyclohexane	6.825	83	203180	34.098	ug/L	#	81
48) Trichloroethene	6.830	95	134697	18.705	ug/L		99
50) Dibromomethane	7.316	93	59742	34.301	ug/L		99
51) 1,2-Dichloropropane	7.431	63	141360	32.959	ug/L		96
52) 4-penten-2-ol	7.360	45	20938	162.211	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.178	63	40017	48.319	ug/L		96
54) Bromodichloromethane	7.502	83	160500	32.497	ug/L		98
57) 1,4-Dioxane	7.731	88	11557	574.705	ug/L	#	84
58) cis-1,3-Dichloropropene	8.265	75	199156	32.546	ug/L		98
61) Toluene	8.566	92	315560	32.341	ug/L		96
62) 4-Methyl-2-pentanone	9.024	58	30038	36.661	ug/L		93
63) Tetrachloroethene	9.057	166	135724	33.708	ug/L		99
65) trans-1,3-Dichloropropene	9.084	75	165998	32.757	ug/L		94
66) 4-Methyl-2-pentanol	9.138	45	81098	158.150	ug/L		97
67) Ethyl methacrylate	9.275	69	109128	31.944	ug/L		99
68) 1,1,2-Trichloroethane	9.297	83	71930	32.154	ug/L		97
69) Chlorodibromomethane	9.531	129	106900	34.575	ug/L		98
70) 1,3-Dichloropropane	9.657	76	152102	31.940	ug/L		100
71) 1,2-Dibromoethane	9.853	107	84002	33.330	ug/L		99
72) 2-Hexanone	10.132	43	50044	26.435	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A09.D
Acq On : 19 Feb 2020 4:48 pm
Operator : VOA101:KJD
Sample : I8260STD30PPB
Misc : WG1342454
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 19 18:17:00 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) Chlorobenzene	10.546	112	335631	31.798	ug/L		98
74) Ethylbenzene	10.579	91	587941	31.838	ug/L		99
75) 1,1,1,2-Tetrachloroethane	10.628	131	123495	33.136	ug/L		99
76) p/m Xylene	10.764	106	462582	65.630	ug/L		96
77) o Xylene	11.305	106	429365	64.630	ug/L		97
78) Styrene	11.370	104	718943	65.306	ug/L		100
80) Bromoform	11.408	173	57661	36.724	ug/L		99
82) Isopropylbenzene	11.692	105	567400	31.579	ug/L		100
84) Bromobenzene	12.161	156	127515	32.067	ug/L		98
85) n-Propylbenzene	12.183	91	614365	31.908	ug/L		98
86) 1,4-Dichlorobutane	12.205	55	160079	29.178	ug/L		98
87) 1,1,2,2-Tetrachloroethane	12.265	83	84432	30.503	ug/L		99
88) 4-Ethyltoluene	12.314	105	498604	32.105	ug/L		100
89) 2-Chlorotoluene	12.374	91	402722	31.301	ug/L		94
90) 1,3,5-Trimethylbenzene	12.412	105	434363	31.573	ug/L		99
91) 1,2,3-Trichloropropane	12.429	75	78958M4	27.869	ug/L		
92) trans-1,4-Dichloro-2-b...	12.472	53	25903	32.053	ug/L	#	16
93) 4-Chlorotoluene	12.565	91	385229	31.671	ug/L		98
94) tert-Butylbenzene	12.783	119	367263	32.189	ug/L		97
97) 1,2,4-Trimethylbenzene	12.865	105	425800	31.553	ug/L		99
98) sec-Butylbenzene	12.985	105	450725	31.798	ug/L		99
99) p-Isopropyltoluene	13.149	119	416805	31.828	ug/L		97
100) 1,3-Dichlorobenzene	13.242	146	228831	31.613	ug/L		99
101) 1,4-Dichlorobenzene	13.340	146	232558	31.539	ug/L		99
102) p-Diethylbenzene	13.553	119	224884	33.029	ug/L		97
103) n-Butylbenzene	13.618	91	305063	31.821	ug/L		98
104) 1,2-Dichlorobenzene	13.809	146	201527	31.786	ug/L		98
105) 1,2,4,5-Tetramethylben...	14.426	119	339999	33.016	ug/L		97
106) 1,2-Dibromo-3-chloropr...	14.666	155	11038	38.598	ug/L		97
107) 1,3,5-Trichlorobenzene	14.698	180	107040	32.450	ug/L		98
108) Hexachlorobutadiene	15.337	225	30877	32.092	ug/L		98
109) 1,2,4-Trichlorobenzene	15.381	180	93402	31.075	ug/L		98
110) Naphthalene	15.746	128	195312	26.863	ug/L		100
111) 1,2,3-Trichlorobenzene	15.953	180	71131	30.130	ug/L		98

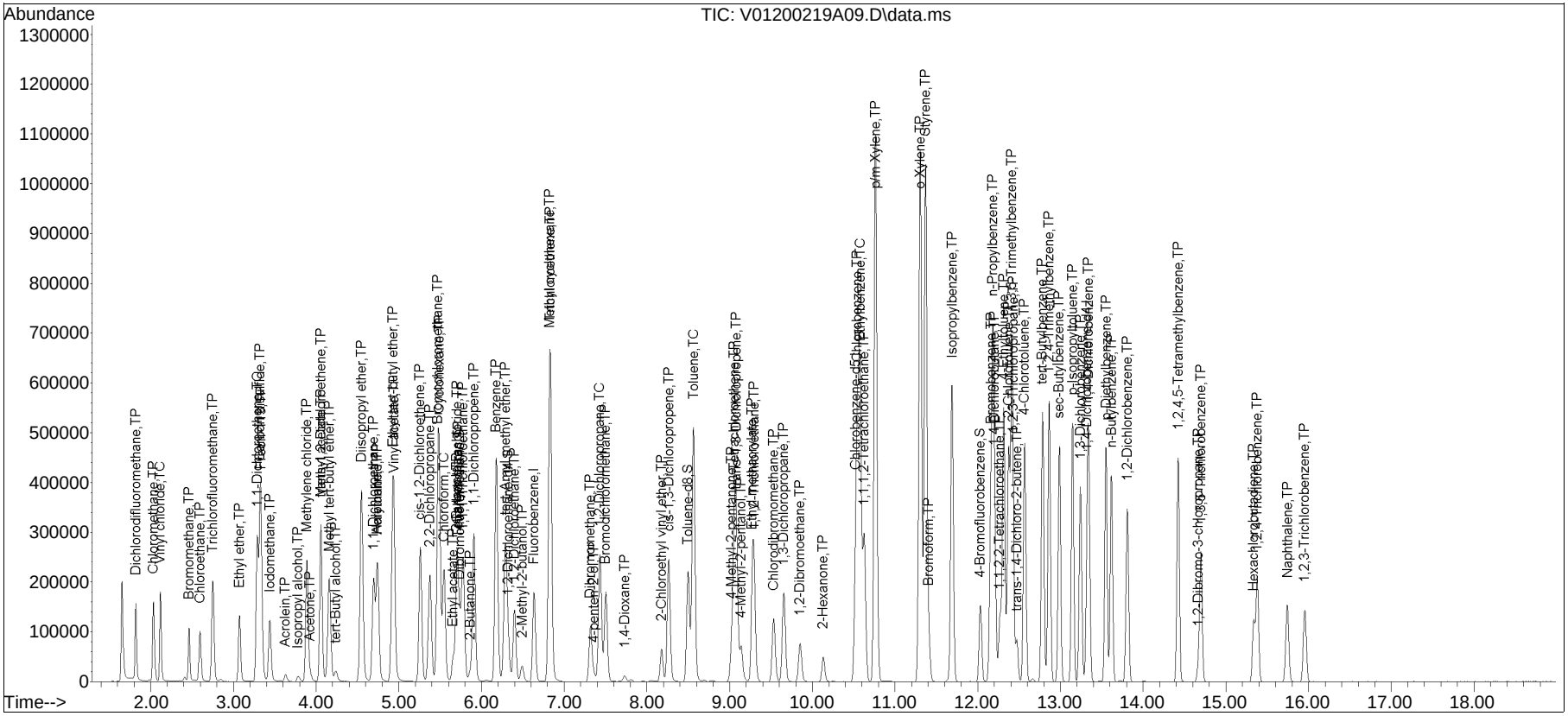
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A09.D
Acq On : 19 Feb 2020 4:48 pm
Operator : VOA101:KJD
Sample : I8260STD30PPB
Misc : WG1342454
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 19 18:17:00 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

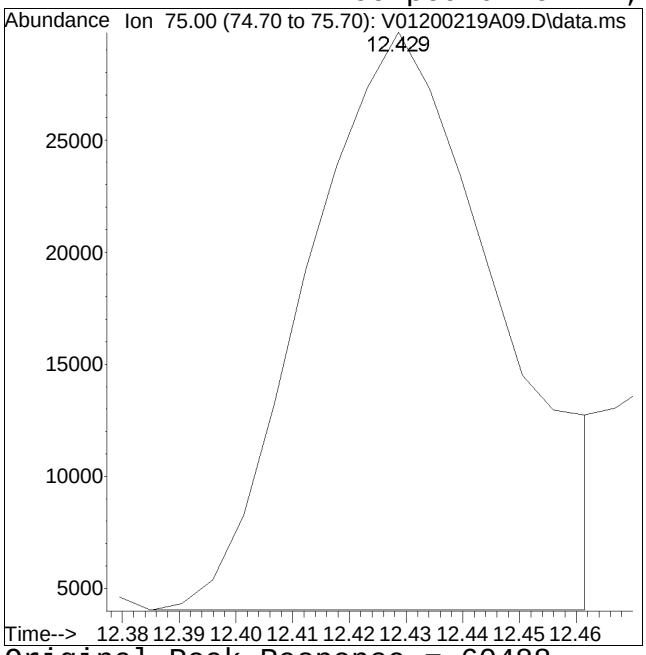
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•



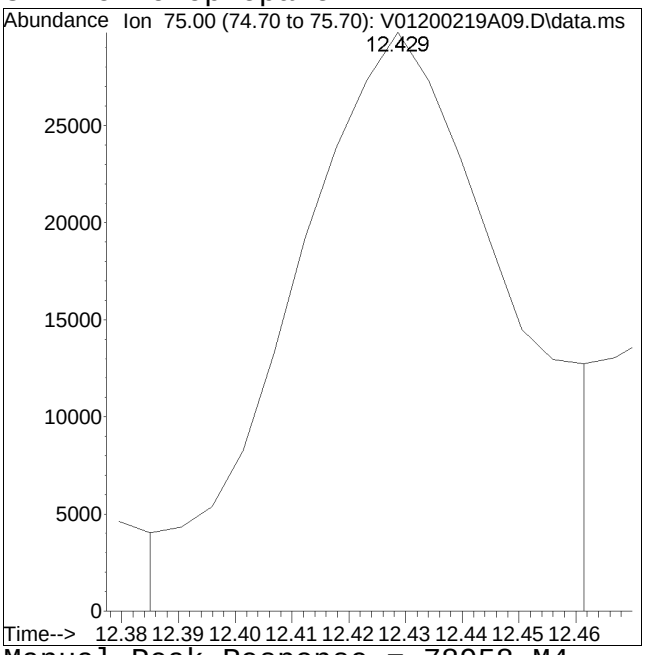
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A09.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 4:48 pm Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 2/19/2020 6:13 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 60488



Manual Peak Response = 78958 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A10.D
Acq On : 19 Feb 2020 5:12 pm
Operator : VOA101:KJD
Sample : I8260STD80PPB
Misc : WG1342454
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 18:18:20 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	216378	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 105.92%			
59) Chlorobenzene-d5	10.524	117	154009	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 105.99%			
79) 1,4-Dichlorobenzene-d4	13.324	152	82515	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 119.26%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	55448	9.886	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.86%			
43) 1,2-Dichloroethane-d4	6.323	65	59238	9.750	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.50%			
60) Toluene-d8	8.500	98	219757	9.965	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.65%			
83) 4-Bromofluorobenzene	12.030	95	84792	9.168	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.822	85	345427	98.451	ug/L	100
3) Chloromethane	2.034	50	495373	87.921	ug/L	99
4) Vinyl chloride	2.116	62	481937	54.211	ug/L	100
5) Bromomethane	2.465	94	181150	84.997	ug/L	100
6) Chloroethane	2.591	64	278996	91.993	ug/L	97
7) Trichlorofluoromethane	2.749	101	563584	95.489	ug/L	99
8) Ethyl ether	3.071	74	159711	94.519	ug/L	81
10) 1,1-Dichloroethene	3.289	96	350465	99.993	ug/L	89
11) Carbon disulfide	3.328	76	893051	86.957	ug/L	99
12) Freon-113	3.328	101	344450	97.542	ug/L	92
13) Iodomethane	3.442	142	482166	109.887	ug/L	99
14) Acrolein	3.633	56	43644	93.230	ug/L	96
15) Methylene chloride	3.890	84	348951	90.609	ug/L	87
16) Isopropyl alcohol	3.786	45	55439	410.358	ug/L #	92
17) Acetone	3.928	43	58183	33.668	ug/L	100
18) trans-1,2-Dichloroethene	4.059	96	358426	91.388	ug/L	89
19) Methyl acetate	4.059	43	163144	53.895	ug/L	93
20) Methyl tert-butyl ether	4.157	73	763449	90.808	ug/L	95
21) tert-Butyl alcohol	4.239	59	90870	458.837	ug/L	94
22) Diisopropyl ether	4.550	45	1327630	90.319	ug/L	93
23) 1,1-Dichloroethane	4.697	63	777003	92.926	ug/L	98

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A10.D
Acq On : 19 Feb 2020 5:12 pm
Operator : VOA101:KJD
Sample : I8260STD80PPB
Misc : WG1342454
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 18:18:20 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.741	117	304303	103.254	ug/L		99
25) Acrylonitrile	4.741	53	81962	104.704	ug/L		96
26) Ethyl tert-butyl ether	4.926	59	1172355	90.868	ug/L		96
27) Vinyl acetate	4.943	43	785517	91.609	ug/L		99
28) cis-1,2-Dichloroethene	5.259	96	429606	93.323	ug/L		89
29) 2,2-Dichloropropane	5.379	77	541738	92.182	ug/L		100
30) Bromochloromethane	5.472	128	166823	95.346	ug/L		90
31) Cyclohexane	5.488	56	839250	97.026	ug/L		88
32) Chloroform	5.548	83	685243	96.808	ug/L		97
33) Ethyl acetate	5.657	43	238718	80.826	ug/L	#	57
34) Carbon tetrachloride	5.706	117	578167	58.149	ug/L		97
35) Tetrahydrofuran	5.712	42	66922	82.275	ug/L		95
37) 1,1,1-Trichloroethane	5.777	97	645624	97.657	ug/L		98
38) 2-Butanol	5.701	45	81199M3	393.379	ug/L		
39) 2-Butanone	5.865	43	96220	77.868	ug/L	#	52
40) 1,1-Dichloropropene	5.908	75	560367	100.790	ug/L		98
41) Benzene	6.181	78	1485155	53.487	ug/L		94
42) tert-Amyl methyl ether	6.290	73	873479	90.954	ug/L		94
44) 1,2-Dichloroethane	6.399	62	470695	93.263	ug/L		98
46) 2-Methyl-2-butanol	6.487	59	78992	463.626	ug/L		96
47) Methyl cyclohexane	6.825	83	636343	102.545	ug/L		83
48) Trichloroethene	6.830	95	412034	54.944	ug/L		98
50) Dibromomethane	7.316	93	182502	100.616	ug/L		97
51) 1,2-Dichloropropane	7.436	63	432446	96.818	ug/L		96
52) 4-penten-2-ol	7.360	45	61463	457.231	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.178	63	132546	153.681	ug/L		97
54) Bromodichloromethane	7.502	83	497909	96.804	ug/L		98
57) 1,4-Dioxane	7.731	88	15027	717.547	ug/L	#	86
58) cis-1,3-Dichloropropene	8.266	75	609837	95.698	ug/L		99
61) Toluene	8.566	92	969430	95.780	ug/L		97
62) 4-Methyl-2-pentanone	9.024	58	93645	110.179	ug/L		91
63) Tetrachloroethene	9.062	166	426089	102.014	ug/L		99
65) trans-1,3-Dichloropropene	9.084	75	513887	97.758	ug/L		90
66) 4-Methyl-2-pentanol	9.139	45	224468	421.986	ug/L		97
67) Ethyl methacrylate	9.275	69	341353	96.327	ug/L		98
68) 1,1,2-Trichloroethane	9.291	83	221830	95.593	ug/L		97
69) Chlorodibromomethane	9.537	129	337109	105.110	ug/L		97
70) 1,3-Dichloropropane	9.657	76	469167	94.975	ug/L		99
71) 1,2-Dibromoethane	9.853	107	258935	99.042	ug/L		99
72) 2-Hexanone	10.132	43	155228	79.047	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A10.D
Acq On : 19 Feb 2020 5:12 pm
Operator : VOA101:KJD
Sample : I8260STD80PPB
Misc : WG1342454
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 18:18:20 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) Chlorobenzene	10.546	112	1030947	94.157	ug/L		97
74) Ethylbenzene	10.579	91	1817928	94.902	ug/L		98
75) 1,1,1,2-Tetrachloroethane	10.628	131	382756	99.005	ug/L		99
76) p/m Xylene	10.765	106	1432423	195.917	ug/L		96
77) o Xylene	11.305	106	1330004	192.994	ug/L		97
78) Styrene	11.370	104	2237622	195.943	ug/L		99
80) Bromoform	11.408	173	186187	103.957	ug/L		100
82) Isopropylbenzene	11.687	105	1813676	88.491	ug/L		100
84) Bromobenzene	12.161	156	406624	89.646	ug/L		99
85) n-Propylbenzene	12.183	91	1968144	89.612	ug/L		98
86) 1,4-Dichlorobutane	12.210	55	501127	80.077	ug/L		98
87) 1,1,2,2-Tetrachloroethane	12.271	83	271811	86.087	ug/L		97
88) 4-Ethyltoluene	12.314	105	1626749	91.828	ug/L		100
89) 2-Chlorotoluene	12.374	91	1299981	88.577	ug/L		94
90) 1,3,5-Trimethylbenzene	12.412	105	1411492	89.943	ug/L		100
91) 1,2,3-Trichloropropane	12.429	75	239903M4	74.233	ug/L		
92) trans-1,4-Dichloro-2-b...	12.472	53	86439	93.770	ug/L	#	17
93) 4-Chlorotoluene	12.571	91	1255465	90.485	ug/L		97
94) tert-Butylbenzene	12.783	119	1210659	93.023	ug/L		97
97) 1,2,4-Trimethylbenzene	12.865	105	1398627	90.860	ug/L		100
98) sec-Butylbenzene	12.991	105	1506015	93.144	ug/L		99
99) p-Isopropyltoluene	13.144	119	1396619	93.494	ug/L		97
100) 1,3-Dichlorobenzene	13.242	146	770942	93.371	ug/L		99
101) 1,4-Dichlorobenzene	13.340	146	777417	92.428	ug/L		99
102) p-Diethylbenzene	13.553	119	763047	98.246	ug/L		96
103) n-Butylbenzene	13.618	91	1040666	95.163	ug/L		98
104) 1,2-Dichlorobenzene	13.809	146	684092	94.591	ug/L		99
105) 1,2,4,5-Tetramethylben...	14.420	119	1158180	98.595	ug/L		97
106) 1,2-Dibromo-3-chloropr...	14.671	155	39156	120.034	ug/L		99
107) 1,3,5-Trichlorobenzene	14.699	180	371143	98.637	ug/L		97
108) Hexachlorobutadiene	15.337	225	105710	96.320	ug/L		99
109) 1,2,4-Trichlorobenzene	15.381	180	321453	93.756	ug/L		98
110) Naphthalene	15.741	128	681656	82.190	ug/L		100
111) 1,2,3-Trichlorobenzene	15.954	180	245745	91.255	ug/L		96

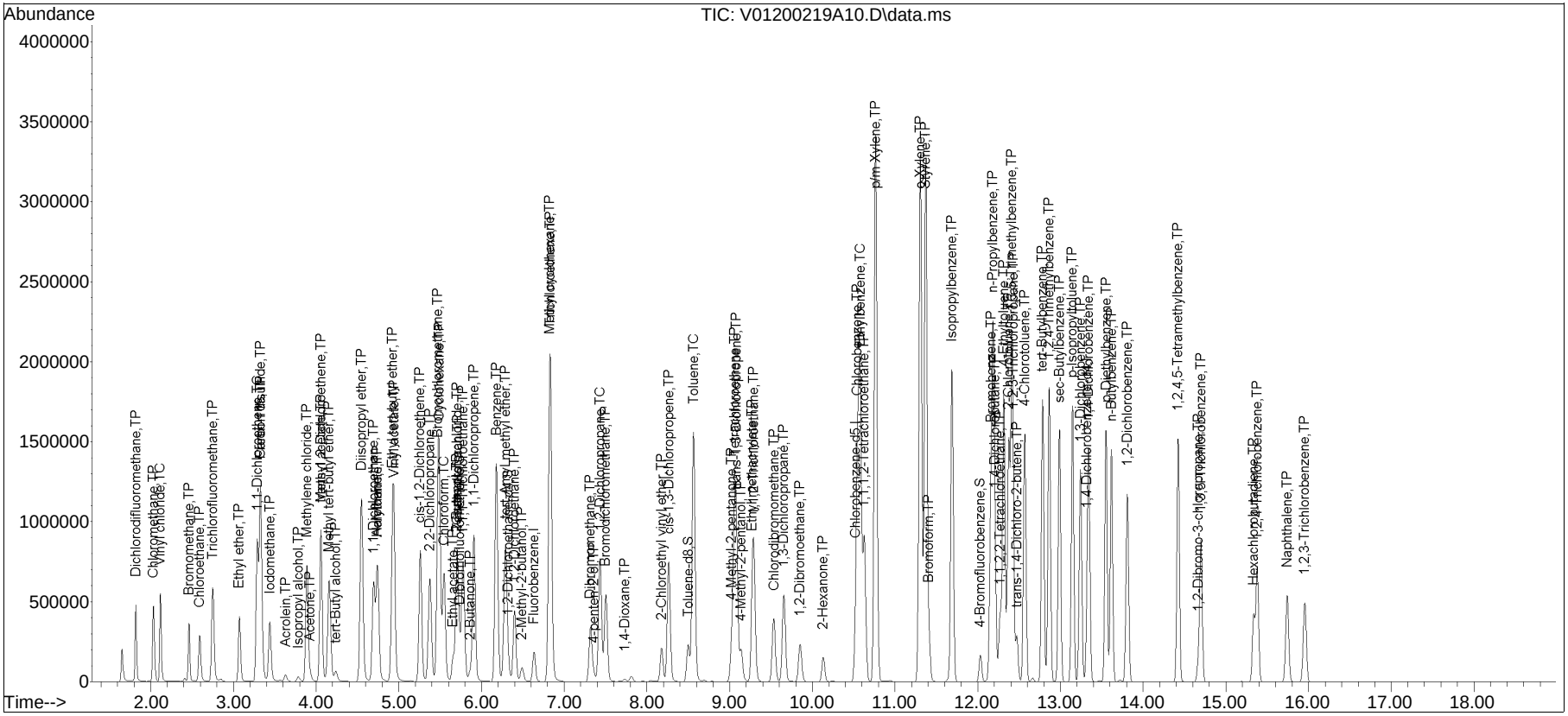
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A10.D
Acq On : 19 Feb 2020 5:12 pm
Operator : VOA101:KJD
Sample : I8260STD80PPB
Misc : WG1342454
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 19 18:18:20 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

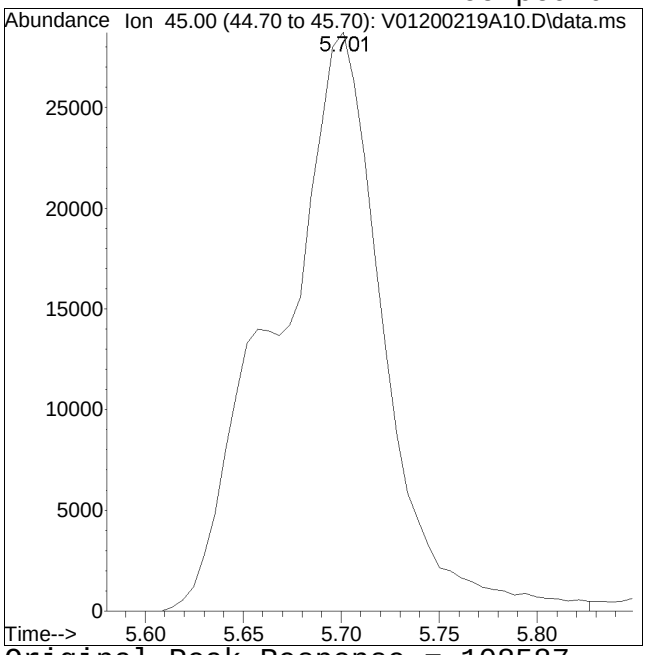
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•

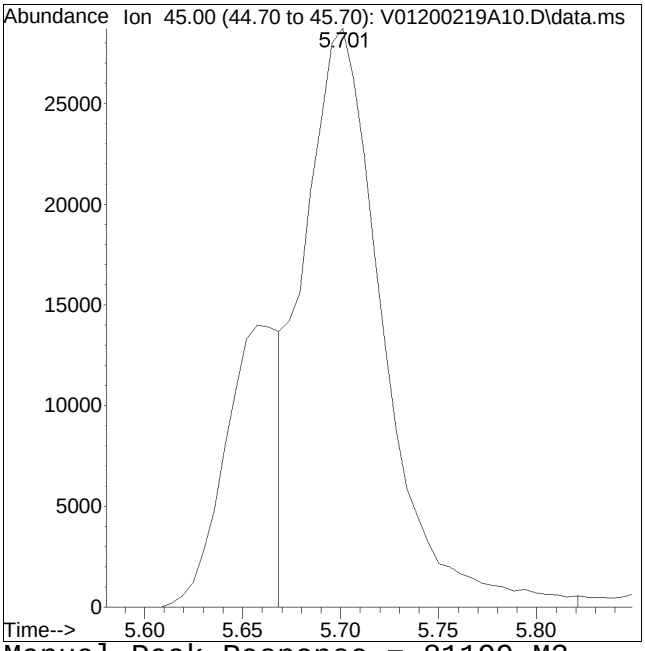


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A10.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 5:12 pm Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 2/19/2020 6:13 pm

Compound #38: 2-Butanol



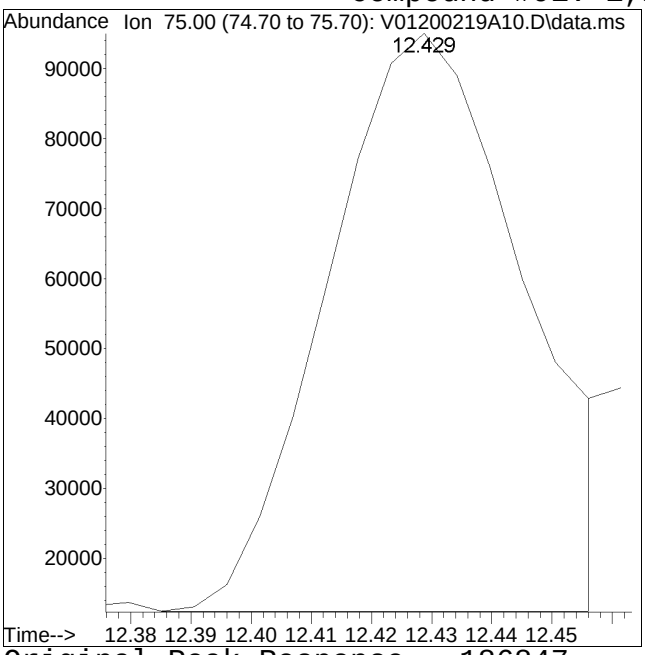


Original Peak Response = 108587 Manual Peak Response = 81199 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

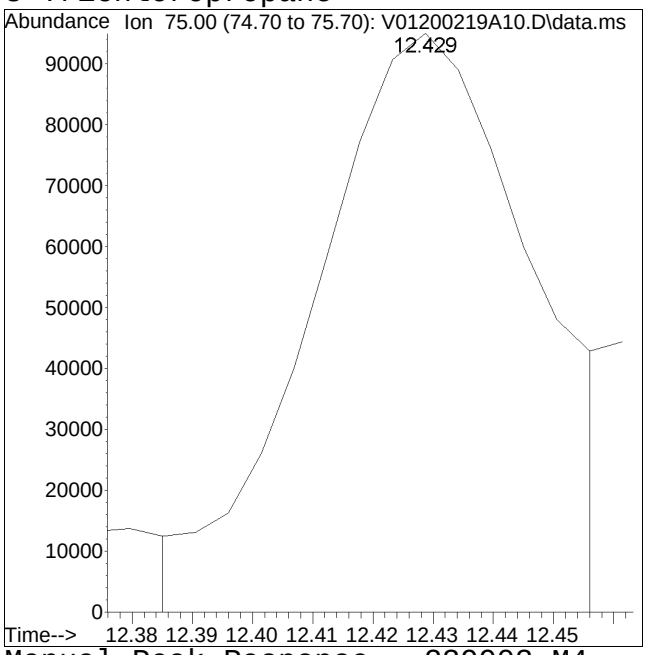
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A10.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 5:12 pm Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 2/19/2020 6:13 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 186847



Manual Peak Response = 239903 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A11.D
Acq On : 19 Feb 2020 5:35 pm
Operator : VOA101:KJD
Sample : I8260STD120PPB
Misc : WG1342454
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 19 18:20:01 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	227199	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 111.22%			
59) Chlorobenzene-d5	10.524	117	160047	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 110.14%			
79) 1,4-Dichlorobenzene-d4	13.323	152	85704	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 123.87%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	58608	9.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
43) 1,2-Dichloroethane-d4	6.323	65	61791	9.686	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.86%			
60) Toluene-d8	8.500	98	229218	10.002	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.02%			
83) 4-Bromofluorobenzene	12.030	95	89461	9.312	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	539044	146.317	ug/L	100
3) Chloromethane	2.034	50	783826	132.491	ug/L	99
4) Vinyl chloride	2.122	62	756969	81.093	ug/L	99
5) Bromomethane	2.465	94	318396	142.278	ug/L	100
6) Chloroethane	2.591	64	429930	135.009	ug/L	97
7) Trichlorofluoromethane	2.749	101	876614	141.452	ug/L	99
8) Ethyl ether	3.076	74	248182	139.882	ug/L	82
10) 1,1-Dichloroethene	3.289	96	545939	148.346	ug/L	90
11) Carbon disulfide	3.327	76	1416464	131.353	ug/L	99
12) Freon-113	3.333	101	530392	143.044	ug/L	88
13) Iodomethane	3.442	142	728141	158.041	ug/L	99
14) Acrolein	3.628	56	66790	135.877	ug/L	97
15) Methylene chloride	3.889	84	551194	136.308	ug/L	89
16) Isopropyl alcohol	3.786	45	86588	610.396	ug/L	93
17) Acetone	3.928	43	90139	49.675	ug/L	99
18) trans-1,2-Dichloroethene	4.059	96	563061	136.726	ug/L	90
19) Methyl acetate	4.059	43	242932	76.430	ug/L	94
20) Methyl tert-butyl ether	4.157	73	1172835	132.858	ug/L	95
21) tert-Butyl alcohol	4.239	59	141847	682.126	ug/L	95
22) Diisopropyl ether	4.550	45	2047729	132.673	ug/L	93
23) 1,1-Dichloroethane	4.697	63	1207831	137.571	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A11.D
Acq On : 19 Feb 2020 5:35 pm
Operator : VOA101:KJD
Sample : I8260STD120PPB
Misc : WG1342454
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 19 18:20:01 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.741	117	474072	153.198	ug/L		99
25) Acrylonitrile	4.741	53	125930	153.210	ug/L		96
26) Ethyl tert-butyl ether	4.926	59	1812284	133.778	ug/L		96
27) Vinyl acetate	4.943	43	1196013	132.839	ug/L		99
28) cis-1,2-Dichloroethene	5.259	96	672944	139.221	ug/L		89
29) 2,2-Dichloropropane	5.374	77	826968	134.014	ug/L		100
30) Bromochloromethane	5.472	128	253885	138.195	ug/L		91
31) Cyclohexane	5.488	56	1289863	142.019	ug/L		89
32) Chloroform	5.548	83	1076933	144.898	ug/L		96
33) Ethyl acetate	5.657	43	365899	117.986	ug/L	#	57
34) Carbon tetrachloride	5.706	117	894554	85.685	ug/L		96
35) Tetrahydrofuran	5.712	42	102188	119.648	ug/L		95
37) 1,1,1-Trichloroethane	5.777	97	1005858	144.900	ug/L		98
38) 2-Butanol	5.701	45	125939M3	581.068	ug/L		
39) 2-Butanone	5.859	43	147904	113.994	ug/L	#	52
40) 1,1-Dichloropropene	5.908	75	869413	148.928	ug/L		98
41) Benzene	6.181	78	2332627	80.007	ug/L		95
42) tert-Amyl methyl ether	6.290	73	1357787	134.651	ug/L		94
44) 1,2-Dichloroethane	6.399	62	729998	137.751	ug/L		98
46) 2-Methyl-2-butanol	6.492	59	123033	687.721	ug/L		95
47) Methyl cyclohexane	6.830	83	997276	153.054	ug/L		83
48) Trichloroethene	6.830	95	642558	81.602	ug/L		98
50) Dibromomethane	7.316	93	283993	149.113	ug/L		98
51) 1,2-Dichloropropane	7.436	63	675313	143.992	ug/L		96
52) 4-penten-2-ol	7.354	45	95478	676.445	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.178	63	199920	220.758	ug/L		98
54) Bromodichloromethane	7.502	83	778816	144.207	ug/L		98
57) 1,4-Dioxane	7.731	88	23928	1088.156	ug/L	#	87
58) cis-1,3-Dichloropropene	8.265	75	949838	141.953	ug/L		99
61) Toluene	8.566	92	1521258	144.631	ug/L		96
62) 4-Methyl-2-pentanone	9.029	58	143072	161.982	ug/L		89
63) Tetrachloroethene	9.062	166	661004	152.287	ug/L		98
65) trans-1,3-Dichloropropene	9.084	75	796941	145.885	ug/L		92
66) 4-Methyl-2-pentanol	9.138	45	334381	604.900	ug/L		97
67) Ethyl methacrylate	9.275	69	517352	140.484	ug/L		99
68) 1,1,2-Trichloroethane	9.291	83	342456	142.007	ug/L		97
69) Chlorodibromomethane	9.531	129	526345	157.922	ug/L		97
70) 1,3-Dichloropropane	9.657	76	723779	140.990	ug/L		100
71) 1,2-Dibromoethane	9.853	107	404164	148.760	ug/L		99
72) 2-Hexanone	10.132	43	233867	114.600	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A11.D
Acq On : 19 Feb 2020 5:35 pm
Operator : VOA101:KJD
Sample : I8260STD120PPB
Misc : WG1342454
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 19 18:20:01 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	Chlorobenzene	10.546	112	1608764	141.386	ug/L		97
74)	Ethylbenzene	10.579	91	2822375	141.779	ug/L		98
75)	1,1,1,2-Tetrachloroethane	10.628	131	598166	148.887	ug/L		99
76)	p/m Xylene	10.764	106	2220738	292.278	ug/L		97
77)	o Xylene	11.310	106	2071769	289.288	ug/L		97
78)	Styrene	11.370	104	3508478	295.637	ug/L		99
80)	Bromoform	11.408	173	294635	158.387	ug/L		100
82)	Isopropylbenzene	11.692	105	2823228	132.623	ug/L		100
84)	Bromobenzene	12.161	156	634205	134.616	ug/L		99
85)	n-Propylbenzene	12.189	91	3086390	135.298	ug/L		98
86)	1,4-Dichlorobutane	12.210	55	763844	117.515	ug/L		98
87)	1,1,2,2-Tetrachloroethane	12.270	83	418354	127.570	ug/L		97
88)	4-Ethyltoluene	12.320	105	2566776	139.499	ug/L		100
89)	2-Chlorotoluene	12.374	91	2044940	134.152	ug/L		94
90)	1,3,5-Trimethylbenzene	12.412	105	2223550	136.417	ug/L		99
91)	1,2,3-Trichloropropane	12.429	75	379947M4	113.192	ug/L		
92)	trans-1,4-Dichloro-2-b...	12.472	53	133285	139.209	ug/L	#	17
93)	4-Chlorotoluene	12.571	91	1968758	136.614	ug/L		97
94)	tert-Butylbenzene	12.783	119	1908592	141.193	ug/L		97
97)	1,2,4-Trimethylbenzene	12.865	105	2189175	136.924	ug/L		99
98)	sec-Butylbenzene	12.991	105	2391378	142.398	ug/L		99
99)	p-Isopropyltoluene	13.149	119	2217447	142.920	ug/L		97
100)	1,3-Dichlorobenzene	13.242	146	1216281	141.825	ug/L		99
101)	1,4-Dichlorobenzene	13.340	146	1225002	140.222	ug/L		99
102)	p-Diethylbenzene	13.553	119	1213510	150.432	ug/L		96
103)	n-Butylbenzene	13.618	91	1661724	146.301	ug/L		98
104)	1,2-Dichlorobenzene	13.809	146	1070218	142.475	ug/L		99
105)	1,2,4,5-Tetramethylben...	14.426	119	1809375	148.299	ug/L		97
106)	1,2-Dibromo-3-chloropr...	14.666	155	59508	175.636	ug/L		98
107)	1,3,5-Trichlorobenzene	14.704	180	582142	148.956	ug/L		98
108)	Hexachlorobutadiene	15.337	225	177333	155.568	ug/L		99
109)	1,2,4-Trichlorobenzene	15.381	180	500584	140.570	ug/L		98
110)	Naphthalene	15.741	128	1026616	119.178	ug/L		100
111)	1,2,3-Trichlorobenzene	15.953	180	377663	135.023	ug/L		97

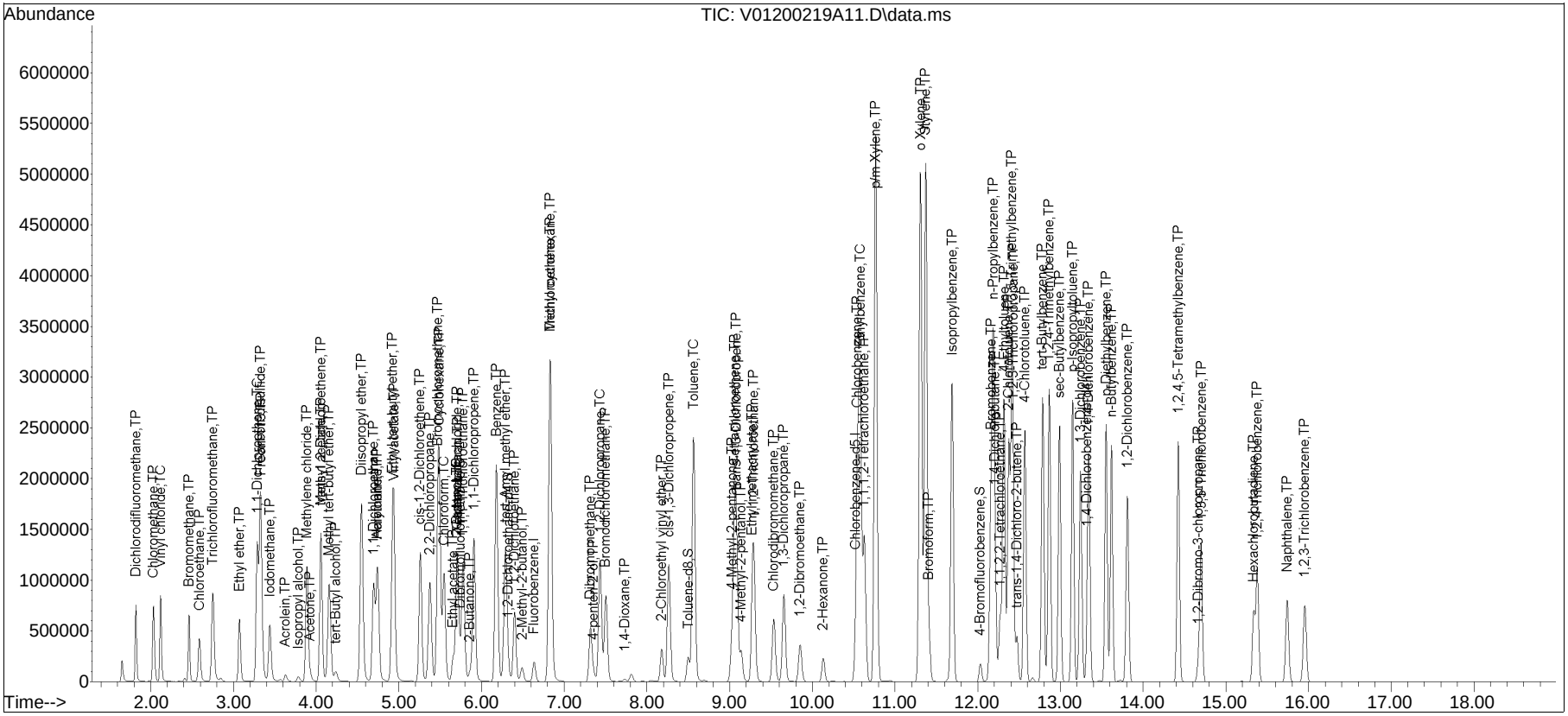
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A11.D
Acq On : 19 Feb 2020 5:35 pm
Operator : VOA101:KJD
Sample : I8260STD120PPB
Misc : WG1342454
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 19 18:20:01 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 17:00:54 2020
Response via : Initial Calibration

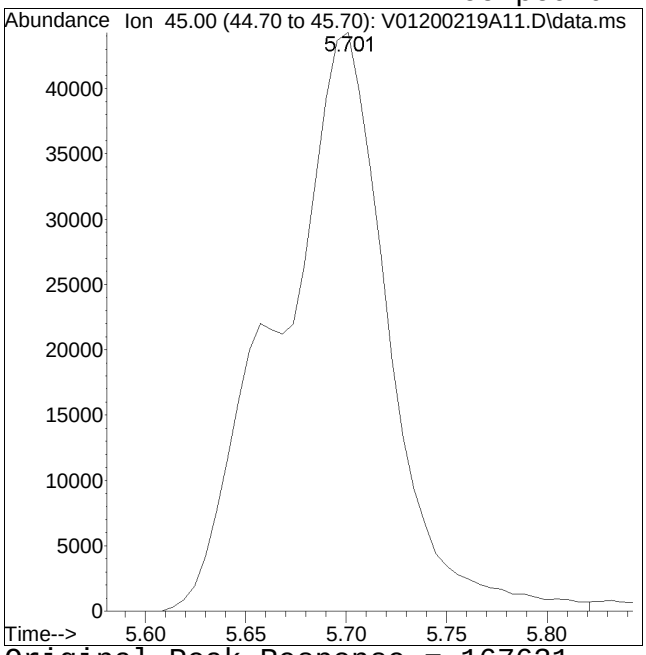
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•

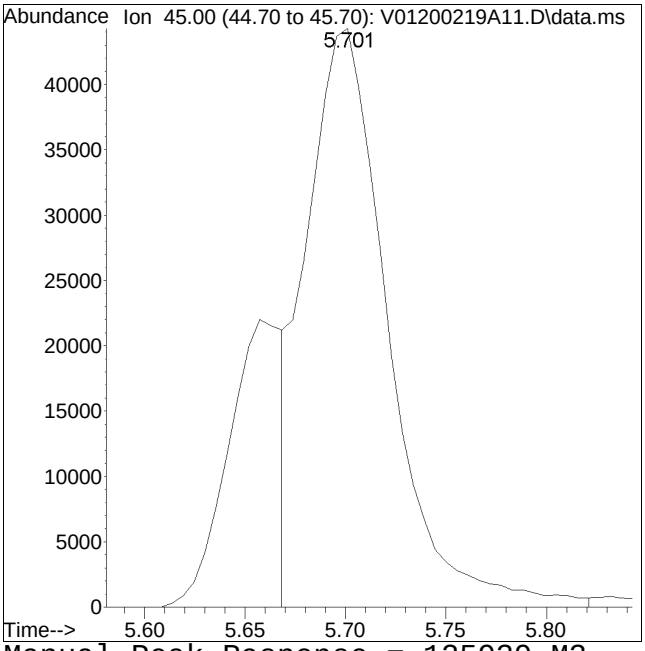


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A11.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 5:35 pm Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 2/19/2020 6:13 pm

Compound #38: 2-Butanol





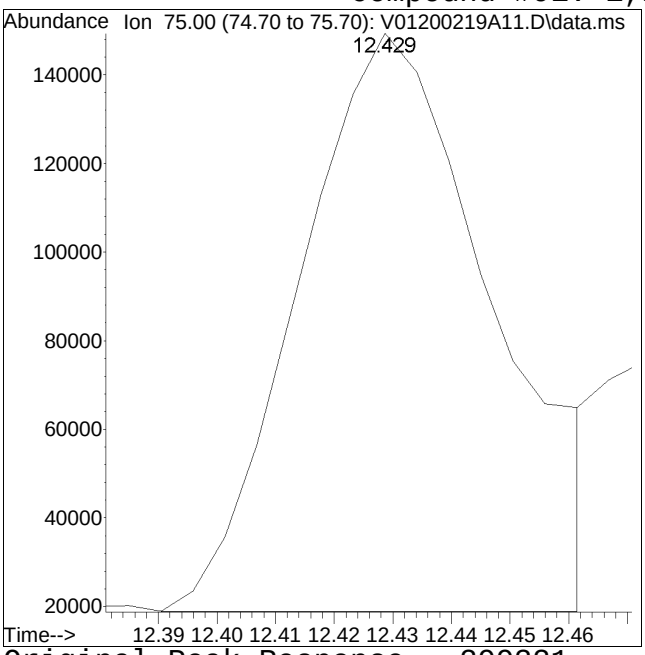
Original Peak Response = 167631 Manual Peak Response = 125939 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

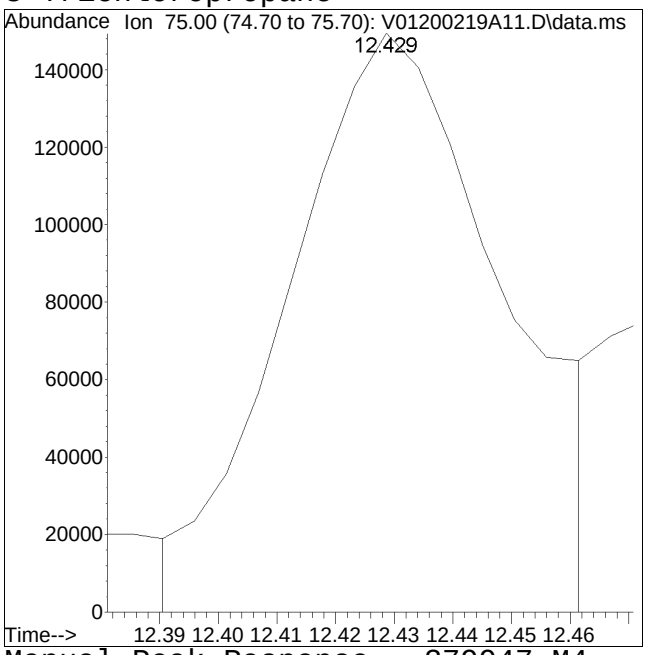
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A11.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 5:35 pm Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 2/19/2020 6:13 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 299321



Manual Peak Response = 379947 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A12.D
Acq On : 19 Feb 2020 5:59 pm
Operator : VOA101:KJD
Sample : I8260STD200PPB
Misc : WG1342454
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 19 18:22:02 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 18:20:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	238339	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 116.67%			
59) Chlorobenzene-d5	10.524	117	166382	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 114.50%			
79) 1,4-Dichlorobenzene-d4	13.323	152	92649	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 133.91%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	60622	9.861	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.61%			
43) 1,2-Dichloroethane-d4	6.323	65	66258	10.010	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%			
60) Toluene-d8	8.500	98	239068	10.053	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.53%			
83) 4-Bromofluorobenzene	12.036	95	92708	9.162	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	935244	221.174	ug/L	99
3) Chloromethane	2.034	50	1377433	214.199	ug/L	99
4) Vinyl chloride	2.116	62	1305987	156.468	ug/L	99
5) Bromomethane	2.460	94	577503	240.862	ug/L	99
6) Chloroethane	2.580	64	689063	194.936	ug/L	97
7) Trichlorofluoromethane	2.749	101	1506854	215.068	ug/L	99
8) Ethyl ether	3.071	74	438275	219.946	ug/L	82
10) 1,1-Dichloroethene	3.289	96	950961	223.224	ug/L	91
11) Carbon disulfide	3.322	76	2482515	213.601	ug/L	99
12) Freon-113	3.327	101	914803	216.708	ug/L	86
13) Iodomethane	3.437	142	1250265	222.692	ug/L	99
14) Acrolein	3.628	56	121745	220.732	ug/L	95
15) Methylene chloride	3.889	84	970375	217.331	ug/L	90
16) Isopropyl alcohol	3.786	45	162450	1079.856	ug/L #	92
17) Acetone	3.928	43	160649	118.702	ug/L	99
18) trans-1,2-Dichloroethene	4.059	96	989028	217.219	ug/L	91
19) Methyl acetate	4.059	43	415784	151.419	ug/L	94
20) Methyl tert-butyl ether	4.157	73	2100540	216.727	ug/L	94
21) tert-Butyl alcohol	4.239	59	262694	1131.425	ug/L	94
22) Diisopropyl ether	4.550	45	3548623	209.427	ug/L	93
23) 1,1-Dichloroethane	4.697	63	2101818	214.652	ug/L	99

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A12.D
Acq On : 19 Feb 2020 5:59 pm
Operator : VOA101:KJD
Sample : I8260STD200PPB
Misc : WG1342454
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 19 18:22:02 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 18:20:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.741	117	835186	229.465	ug/L		99
25) Acrylonitrile	4.741	53	226937	232.478	ug/L		96
26) Ethyl tert-butyl ether	4.932	59	3194559	213.955	ug/L		95
27) Vinyl acetate	4.942	43	2084996	210.179	ug/L		100
28) cis-1,2-Dichloroethene	5.259	96	1186802	219.955	ug/L		90
29) 2,2-Dichloropropane	5.374	77	1440003	210.866	ug/L		100
30) Bromochloromethane	5.472	128	437232	209.964	ug/L		93
31) Cyclohexane	5.483	56	2233121	216.339	ug/L		89
32) Chloroform	5.548	83	1883105	222.132	ug/L		96
33) Ethyl acetate	5.657	43	661867	205.760	ug/L	#	56
34) Carbon tetrachloride	5.706	117	1564947	164.575	ug/L		96
35) Tetrahydrofuran	5.717	42	183396	204.451	ug/L		97
37) 1,1,1-Trichloroethane	5.777	97	1760065	222.191	ug/L		98
38) 2-Butanol	5.701	45	232214M3	1044.721	ug/L		
39) 2-Butanone	5.859	43	272554	208.868	ug/L	#	49
40) 1,1-Dichloropropene	5.908	75	1527315	225.618	ug/L		98
41) Benzene	6.181	78	4078181	157.104	ug/L		95
42) tert-Amyl methyl ether	6.290	73	2430079	219.256	ug/L		94
44) 1,2-Dichloroethane	6.399	62	1279029	216.491	ug/L		99
46) 2-Methyl-2-butanol	6.492	59	228418	1124.314	ug/L		97
47) Methyl cyclohexane	6.830	83	1748850	229.334	ug/L		85
48) Trichloroethene	6.830	95	1122209	158.753	ug/L		98
50) Dibromomethane	7.316	93	507180	229.258	ug/L		97
51) 1,2-Dichloropropane	7.436	63	1179829	221.062	ug/L		96
52) 4-penten-2-ol	7.360	45	179638	1133.447	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.178	63	375037	282.946	ug/L		99
54) Bromodichloromethane	7.507	83	1372247	223.752	ug/L		98
57) 1,4-Dioxane	7.731	88	44142	1992.775	ug/L	#	84
58) cis-1,3-Dichloropropene	8.265	75	1662214	219.806	ug/L		100
61) Toluene	8.566	92	2639953	223.529	ug/L		97
62) 4-Methyl-2-pentanone	9.029	58	256124	240.838	ug/L		89
63) Tetrachloroethene	9.062	166	1164544	232.232	ug/L		98
65) trans-1,3-Dichloropropene	9.089	75	1410028	228.149	ug/L		92
66) 4-Methyl-2-pentanol	9.138	45	641063	1094.117	ug/L		97
67) Ethyl methacrylate	9.280	69	930917	226.561	ug/L		98
68) 1,1,2-Trichloroethane	9.291	83	609783	226.259	ug/L		97
69) Chlorodibromomethane	9.537	129	941411	240.359	ug/L		97
70) 1,3-Dichloropropane	9.657	76	1287024	225.148	ug/L		100
71) 1,2-Dibromoethane	9.853	107	723347	233.221	ug/L		99
72) 2-Hexanone	10.132	43	422016	204.925	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A12.D
Acq On : 19 Feb 2020 5:59 pm
Operator : VOA101:KJD
Sample : I8260STD200PPB
Misc : WG1342454
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 19 18:22:02 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 18:20:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) Chlorobenzene	10.546	112	2798194	221.249	ug/L		97
74) Ethylbenzene	10.579	91	4896940	220.835	ug/L		98
75) 1,1,1,2-Tetrachloroethane	10.634	131	1046835	228.451	ug/L		98
76) p/m Xylene	10.770	106	3807519	442.498	ug/L		97
77) o Xylene	11.310	106	3551720	441.123	ug/L		97
78) Styrene	11.376	104	6048587	449.453	ug/L		99
80) Bromoform	11.414	173	534749	233.141	ug/L		100
82) Isopropylbenzene	11.692	105	4940487	205.639	ug/L		100
84) Bromobenzene	12.161	156	1123837	209.780	ug/L		99
85) n-Propylbenzene	12.189	91	5410501	208.582	ug/L		98
86) 1,4-Dichlorobutane	12.210	55	1343560	192.723	ug/L		98
87) 1,1,2,2-Tetrachloroethane	12.270	83	763187	209.822	ug/L		98
88) 4-Ethyltoluene	12.320	105	4497011	212.601	ug/L		100
89) 2-Chlorotoluene	12.380	91	3597997	208.990	ug/L		94
90) 1,3,5-Trimethylbenzene	12.418	105	3897754	210.221	ug/L		99
91) 1,2,3-Trichloropropane	12.429	75	667907M4	190.406	ug/L		
92) trans-1,4-Dichloro-2-b...	12.478	53	239298	216.727	ug/L	#	17
93) 4-Chlorotoluene	12.571	91	3469268	211.241	ug/L		97
94) tert-Butylbenzene	12.789	119	3374677	216.085	ug/L		97
97) 1,2,4-Trimethylbenzene	12.865	105	3895189	213.667	ug/L		100
98) sec-Butylbenzene	12.991	105	4272212	220.243	ug/L		100
99) p-Isopropyltoluene	13.149	119	3952780	220.231	ug/L		97
100) 1,3-Dichlorobenzene	13.247	146	2196144	221.985	ug/L		99
101) 1,4-Dichlorobenzene	13.345	146	2212481	220.485	ug/L		99
102) p-Diethylbenzene	13.553	119	2180831	227.945	ug/L		96
103) n-Butylbenzene	13.618	91	3011781	227.488	ug/L		98
104) 1,2-Dichlorobenzene	13.809	146	1942818	223.282	ug/L		99
105) 1,2,4,5-Tetramethylben...	14.426	119	3258200	225.639	ug/L		97
106) 1,2-Dibromo-3-chloropr...	14.671	155	112754	246.249	ug/L		99
107) 1,3,5-Trichlorobenzene	14.704	180	1061984	230.052	ug/L		98
108) Hexachlorobutadiene	15.337	225	321663	238.380	ug/L		99
109) 1,2,4-Trichlorobenzene	15.381	180	925129	226.029	ug/L		98
110) Naphthalene	15.741	128	1920365	209.150	ug/L		100
111) 1,2,3-Trichlorobenzene	15.953	180	698405	221.024	ug/L		97

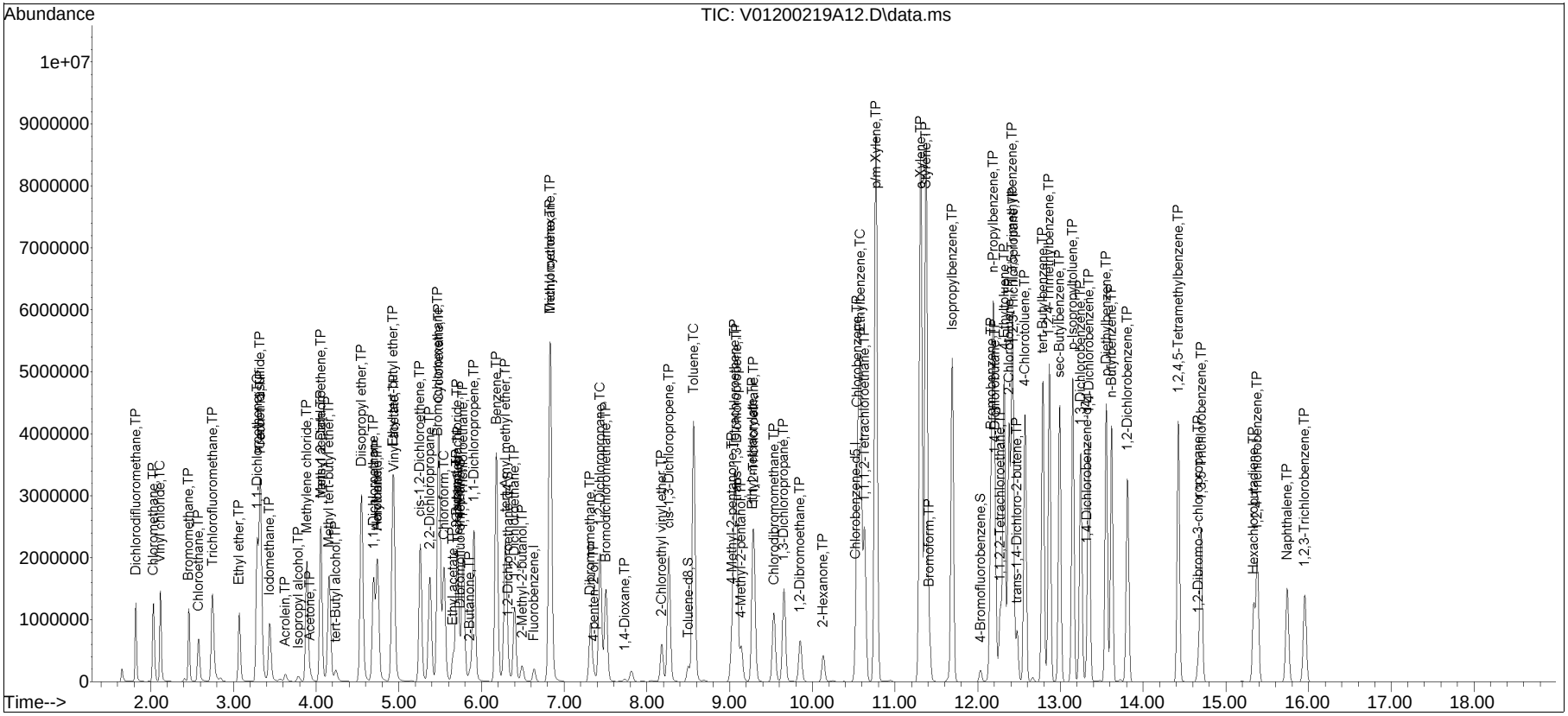
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A12.D
Acq On : 19 Feb 2020 5:59 pm
Operator : VOA101:KJD
Sample : I8260STD200PPB
Misc : WG1342454
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 19 18:22:02 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 18:20:11 2020
Response via : Initial Calibration

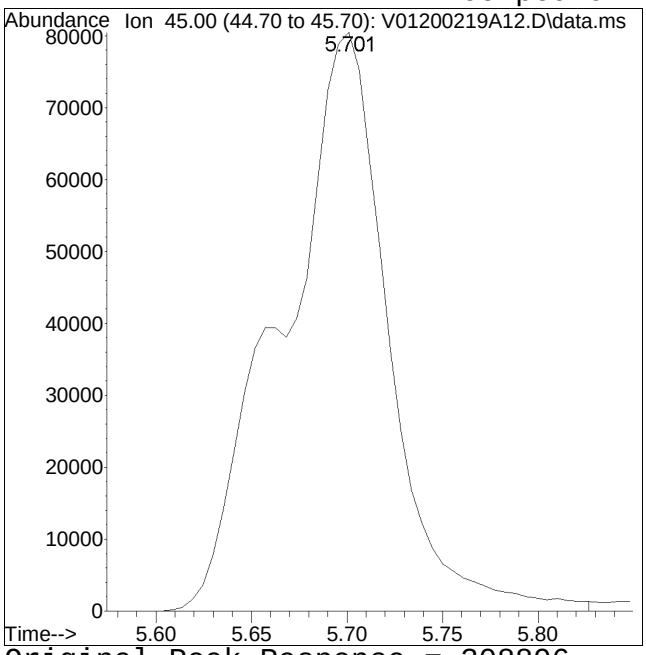
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•

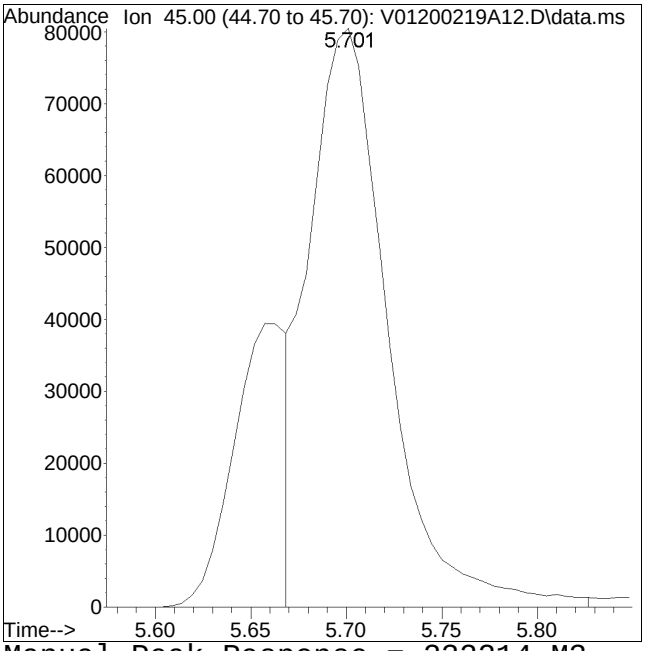


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A12.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 5:59 pm Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 2/19/2020 6:20 pm

Compound #38: 2-Butanol



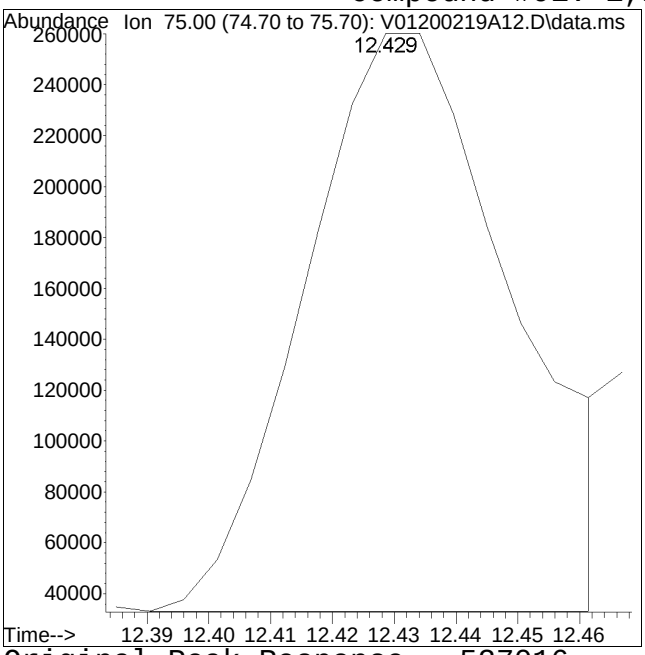


Original Peak Response = 308896 Manual Peak Response = 232214 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

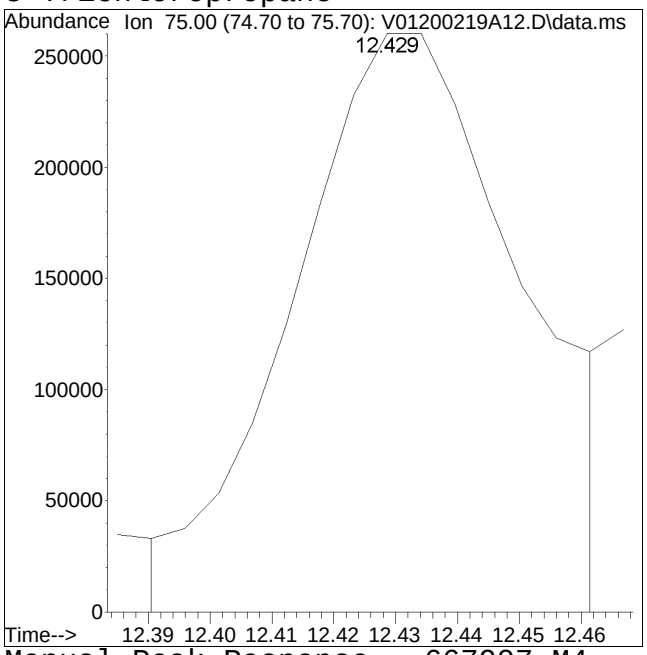
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A12.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 5:59 pm Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 2/19/2020 6:20 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 527016



Manual Peak Response = 667907 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A18.D
Acq On : 19 Feb 2020 8:21 pm
Operator : VOA101:KJD
Sample : I8260STD0.15PPB
Misc : WG1342454
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 19 20:44:03 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 18:22:08 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	204354	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 100.04%			
59) Chlorobenzene-d5	10.524	117	147122	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 101.25%			
79) 1,4-Dichlorobenzene-d4	13.323	152	70148	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 101.39%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	52962	10.065	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.65%			
43) 1,2-Dichloroethane-d4	6.323	65	54733	9.643	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.43%			
60) Toluene-d8	8.495	98	208367	9.903	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.03%			
83) 4-Bromofluorobenzene	12.030	95	77823	10.265	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.65%			
Target Compounds						Qvalue
4) Vinyl chloride	2.122	62	811	0.116	ug/L	89
34) Carbon tetrachloride	5.695	117	859	0.108	ug/L #	75
41) Benzene	6.181	78	2657	0.123	ug/L	92
48) Trichloroethene	6.830	95	748	0.127	ug/L	81

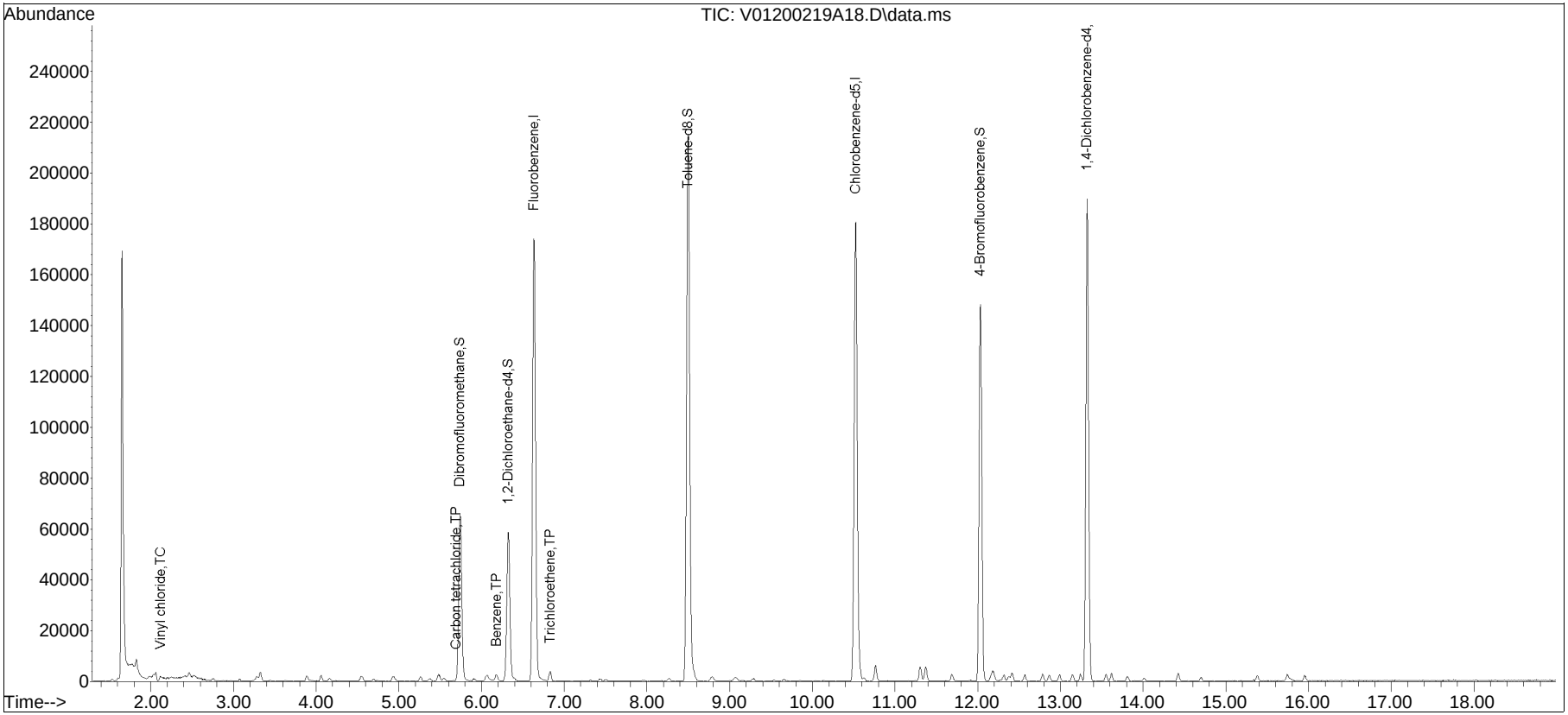
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A18.D
Acq On : 19 Feb 2020 8:21 pm
Operator : VOA101:KJD
Sample : I8260STD0.15PPB
Misc : WG1342454
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 19 20:44:03 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 18:22:08 2020
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product200219A08.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2020\2Q	Method	: V101_200219A_8260.m
Data File	: V01200219A18.D	Operator	: VOA101:KJD
Date Inj'd	: 2/19/2020 8:21 pm	Instrument	: VOA 101
Sample	: I8260STD0.15PPB	Quant Date	: 2/19/2020 8:43 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00
2	TP	Dichlorodifluoromethane	0.180	0.156	13.3	87	0.00
3	TP	Chloromethane	0.273	0.263	3.7	99	0.00
4	TC	Vinyl chloride	0.255	0.246	3.5	98	0.00
5	TP	Bromomethane	0.104	0.115	-10.6	132	0.00
6	TP	Chloroethane	0.148	0.150	-1.4	99	0.00
7	TP	Trichlorofluoromethane	0.297	0.313	-5.4	106	0.00
8	TP	Ethyl ether	0.085	0.092	-8.2	107	0.00
10	TC	1,1-Dichloroethene	0.182	0.183	-0.5	100	0.00
11	TP	Carbon disulfide	0.492	0.507	-3.0	107	0.00
12	TP	Freon-113	0.179	0.199	-11.2	110	0.00
13	TP	Iodomethane	0.239	0.157	34.3#	68	0.00
14	TP	Acrolein	0.024	0.022#	8.3	97	0.00
15	TP	Methylene chloride	0.190	0.188	1.1	100	0.00
16	TP	Isopropyl alcohol	0.00640	0.00567#	11.4	88	0.00
17	TP	Acetone	* 10.000	8.646	13.5	90	0.00
18	TP	trans-1,2-Dichloroethene	0.193	0.200	-3.6	105	0.00
19	TP	Methyl acetate	0.095	0.096#	-1.1	100	0.00
20	TP	Methyl tert-butyl ether	0.412	0.415	-0.7	102	0.00
21	TP	tert-Butyl alcohol	0.00992	0.01041#	-4.9	100	0.00
22	TP	Diisopropyl ether	0.716	0.759	-6.0	104	0.00
23	TP	1,1-Dichloroethane	0.415	0.411	1.0	98	0.00
24	TP	Halothane	0.156	0.164	-5.1	105	0.00
25	TP	Acrylonitrile	0.042	0.045#	-7.1	103	0.01
26	TP	Ethyl tert-butyl ether	0.633	0.653	-3.2	103	0.00
27	TP	Vinyl acetate	0.419	0.366	12.6	89	0.00
28	TP	cis-1,2-Dichloroethene	0.230	0.212	7.8	94	0.00
29	TP	2,2-Dichloropropane	0.289	0.272	5.9	94	0.00
30	TP	Bromochloromethane	0.088	0.094	-6.8	103	0.00
31	TP	Cyclohexane	0.438	0.461	-5.3	106	0.00
32	TC	Chloroform	0.361	0.366	-1.4	104	0.00
33	TP	Ethyl acetate	0.136	0.126	7.4	99	0.00
34	TP	Carbon tetrachloride	0.291	0.297	-2.1	102	0.00
35	TP	Tetrahydrofuran	0.038	0.038#	0.0	100	0.00
36	S	Dibromofluoromethane	0.258	0.262	-1.6	102	0.00
37	TP	1,1,1-Trichloroethane	0.338	0.340	-0.6	102	0.00
38	TP	2-Butanol	0.00940	0.00739#	21.4#	86	0.00
39	TP	2-Butanone	0.055	0.048#	12.7	86	0.00
40	TP	1,1-Dichloropropene	0.289	0.290	-0.3	101	0.00

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	TP	Benzene	0.799	0.785	1.8	100	0.00
42	TP	tert-Amyl methyl ether	0.471	0.474	-0.6	102	0.00
43	S	1,2-Dichloroethane-d4	0.276	0.267	3.3	99	0.00
44	TP	1,2-Dichloroethane	0.251	0.243	3.2	97	0.00
46	TP	2-Methyl-2-butanol	0.00868	0.00821#	5.4	92	0.00
47	TP	Methyl cyclohexane	0.327	0.324	0.9	101	0.00
48	TP	Trichloroethene	0.220	0.216	1.8	101	0.00
50	TP	Dibromomethane	0.095	0.092	3.2	99	0.00
51	TC	1,2-Dichloropropane	0.227	0.226	0.4	99	0.00
52	TP	4-penten-2-ol	0.00680	0.00607#	10.7	91	0.00
53	TP	2-Chloroethyl vinyl ether	0.070	0.052	25.7#	92	0.00
54	TP	Bromodichloromethane	0.262	0.258	1.5	101	0.00
57	TP	1,4-Dioxane	0.00093	0.00084#	9.7	90	0.00
58	TP	cis-1,3-Dichloropropene	0.322	0.304	5.6	97	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
60	S	Toluene-d8	1.429	1.437	-0.6	101	0.00
61	TC	Toluene	0.722	0.729	-1.0	102	0.00
62	TP	4-Methyl-2-pentanone	0.066	0.059#	10.6	87	0.00
63	TP	Tetrachloroethene	0.308	0.313	-1.6	103	0.00
65	TP	trans-1,3-Dichloropropene	0.379	0.347	8.4	95	0.00
66	TP	4-Methyl-2-pentanol	0.036	0.033#	8.3	93	0.00
67	TP	Ethyl methacrylate	0.252	0.260	-3.2	107	0.00
68	TP	1,1,2-Trichloroethane	0.165	0.160	3.0	96	0.00
69	TP	Chlorodibromomethane	0.242	0.235	2.9	100	0.00
70	TP	1,3-Dichloropropane	0.350	0.343	2.0	100	0.00
71	TP	1,2-Dibromoethane	0.191	0.187	2.1	101	0.00
72	TP	2-Hexanone	0.124	0.099#	20.2#	87	0.00
73	TP	Chlorobenzene	0.772	0.781	-1.2	103	0.00
74	TC	Ethylbenzene	1.353	1.388	-2.6	104	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.281	0.284	-1.1	105	0.00
76	TP	p/m Xylene	0.525	0.540	-2.9	104	0.00
77	TP	o Xylene	0.491	0.515	-4.9	106	0.00
78	TP	Styrene	0.823	0.839	-1.9	104	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
80	TP	Bromoform	0.253	0.260	-2.8	101	0.00
82	TP	Isopropylbenzene	2.604	2.695	-3.5	101	0.00
83	S	4-Bromofluorobenzene	1.078	1.115	-3.4	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 TP	Bromobenzene	0.582	0.612	-5.2	104	0.00
85 TP	n-Propylbenzene	2.817	2.963	-5.2	103	0.00
86 TP	1,4-Dichlorobutane	0.749	0.815	-8.8	109	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.395	0.397	-0.5	101	0.00
88 TP	4-Ethyltoluene	2.304	2.539	-10.2	109	0.00
89 TP	2-Chlorotoluene	1.870	1.949	-4.2	104	0.00
90 TP	1,3,5-Trimethylbenzene	2.016	2.070	-2.7	102	0.00
91 TP	1,2,3-Trichloropropane	0.376	0.361	4.0	93	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.121	0.117	3.3	95	0.00
93 TP	4-Chlorotoluene	1.787	1.834	-2.6	102	0.00
94 TP	tert-Butylbenzene	1.705	1.790	-5.0	104	0.00
97 TP	1,2,4-Trimethylbenzene	1.987	2.080	-4.7	106	0.00
98 TP	sec-Butylbenzene	2.124	2.315	-9.0	111	0.00
99 TP	p-Isopropyltoluene	1.965	1.998	-1.7	104	0.00
100 TP	1,3-Dichlorobenzene	1.085	1.108	-2.1	104	0.00
101 TP	1,4-Dichlorobenzene	1.099	1.092	0.6	103	0.00
102 TP	p-Diethylbenzene	1.053	1.054	-0.1	104	0.00
103 TP	n-Butylbenzene	1.457	1.437	1.4	104	0.00
104 TP	1,2-Dichlorobenzene	0.955	0.940	1.6	103	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.587	1.592	-0.3	106	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	9.623	3.8	99	0.00
107 TP	1,3,5-Trichlorobenzene	0.509	0.472	7.3	98	0.00
108 TP	Hexachlorobutadiene	0.150	0.138	8.0	103	0.00
109 TP	1,2,4-Trichlorobenzene	0.450	0.420	6.7	106	0.00
110 TP	Naphthalene	0.998	0.867	13.1	104	0.00
111 TP	1,2,3-Trichlorobenzene	0.346	0.324	6.4	107	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 14 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	206410	10.000	ug/L	0.00
Standard Area 1 = 204276			Recovery = 101.04%			
59) Chlorobenzene-d5	10.524	117	146058	10.000	ug/L	0.00
Standard Area 1 = 145309			Recovery = 100.52%			
79) 1,4-Dichlorobenzene-d4	13.323	152	70352	10.000	ug/L	0.00
Standard Area 1 = 69187			Recovery = 101.68%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	53996	10.155	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.55%			
43) 1,2-Dichloroethane-d4	6.323	65	55105	9.669	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.69%			
60) Toluene-d8	8.500	98	209813	10.055	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.55%			
83) 4-Bromofluorobenzene	12.030	95	78450	10.345	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.45%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	32154	8.649	ug/L	99
3) Chloromethane	2.034	50	54334	9.658	ug/L	99
4) Vinyl chloride	2.116	62	50838	9.668	ug/L	100
5) Bromomethane	2.465	94	23691	11.086	ug/L	99
6) Chloroethane	2.596	64	30894	10.128	ug/L	99
7) Trichlorofluoromethane	2.754	101	64629	10.538	ug/L	99
8) Ethyl ether	3.076	74	18921	10.810	ug/L	83
10) 1,1-Dichloroethene	3.289	96	37705	10.053	ug/L	89
11) Carbon disulfide	3.327	76	104570	10.289	ug/L	99
12) Freon-113	3.333	101	41053	11.097	ug/L	94
13) Iodomethane	3.442	142	32509	6.579	ug/L	98
14) Acrolein	3.627	56	4559	9.382	ug/L	97
15) Methylene chloride	3.889	84	38886	9.933	ug/L	89
16) Isopropyl alcohol	3.786	45	5855	44.350	ug/L #	90
17) Acetone	3.928	43	7006	8.646	ug/L	93
18) trans-1,2-Dichloroethene	4.059	96	41336	10.356	ug/L	89
19) Methyl acetate	4.059	43	19840	10.163	ug/L #	89
20) Methyl tert-butyl ether	4.157	73	85682	10.087	ug/L	94
21) tert-Butyl alcohol	4.239	59	10745	52.453	ug/L #	89
22) Diisopropyl ether	4.550	45	156571	10.598	ug/L	93
23) 1,1-Dichloroethane	4.697	63	84902	9.908	ug/L	98

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) Halothane	4.746	117	33852	10.518	ug/L		99
25) Acrylonitrile	4.746	53	9293	10.743	ug/L		94
26) Ethyl tert-butyl ether	4.932	59	134769	10.320	ug/L		90
27) Vinyl acetate	4.942	43	75450	8.719	ug/L		98
28) cis-1,2-Dichloroethene	5.259	96	43860	9.254	ug/L		88
29) 2,2-Dichloropropane	5.379	77	56110	9.414	ug/L		99
30) Bromochloromethane	5.472	128	19316	10.635	ug/L		89
31) Cyclohexane	5.488	56	95075	10.513	ug/L		89
32) Chloroform	5.548	83	75564	10.132	ug/L		97
33) Ethyl acetate	5.657	43	26059	9.316	ug/L		95
34) Carbon tetrachloride	5.706	117	61322	10.193	ug/L		96
35) Tetrahydrofuran	5.723	42	7815	10.023	ug/L		97
37) 1,1,1-Trichloroethane	5.777	97	70260	10.082	ug/L		98
38) 2-Butanol	5.706	45	7627	39.328	ug/L	#	80
39) 2-Butanone	5.859	43	9871	8.671	ug/L	#	43
40) 1,1-Dichloropropene	5.908	75	59930	10.039	ug/L		98
41) Benzene	6.181	78	162090	9.829	ug/L		95
42) tert-Amyl methyl ether	6.290	73	97826	10.054	ug/L		95
44) 1,2-Dichloroethane	6.399	62	50179	9.693	ug/L		98
46) 2-Methyl-2-butanol	6.492	59	8478	47.345	ug/L		95
47) Methyl cyclohexane	6.825	83	66961	9.931	ug/L		82
48) Trichloroethene	6.830	95	44528	9.798	ug/L		98
50) Dibromomethane	7.316	93	19058	9.744	ug/L		96
51) 1,2-Dichloropropane	7.431	63	46603	9.933	ug/L		95
52) 4-penten-2-ol	7.365	45	6264	44.644	ug/L	#	1
53) 2-Chloroethyl vinyl ether	8.178	63	10701	7.414	ug/L		94
54) Bromodichloromethane	7.507	83	53164	9.843	ug/L		99
57) 1,4-Dioxane	7.731	88	8714	454.477	ug/L	#	86
58) cis-1,3-Dichloropropene	8.260	75	62805	9.456	ug/L		99
61) Toluene	8.566	92	106434	10.096	ug/L		96
62) 4-Methyl-2-pentanone	9.024	58	8566	8.916	ug/L		95
63) Tetrachloroethene	9.062	166	45662	10.140	ug/L		99
65) trans-1,3-Dichloropropene	9.084	75	50747	9.169	ug/L		89
66) 4-Methyl-2-pentanol	9.144	45	24149	46.328	ug/L		96
67) Ethyl methacrylate	9.280	69	37995	10.338	ug/L		95
68) 1,1,2-Trichloroethane	9.291	83	23327	9.678	ug/L		96
69) Chlorodibromomethane	9.531	129	34384	9.720	ug/L		97
70) 1,3-Dichloropropane	9.657	76	50096	9.807	ug/L		99
71) 1,2-Dibromoethane	9.853	107	27352	9.813	ug/L		100
72) 2-Hexanone	10.131	43	14495	7.990	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200219A\V01200219A08.D
Sub List : 8260-CurveAlc - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73) Chlorobenzene	10.546	112	114059	10.120	ug/L		98
74) Ethylbenzene	10.579	91	202790	10.265	ug/L		98
75) 1,1,1,2-Tetrachloroethane	10.628	131	41546	10.123	ug/L		99
76) p/m Xylene	10.764	106	157620	20.555	ug/L		97
77) o Xylene	11.305	106	150545	20.991	ug/L		97
78) Styrene	11.370	104	245033	20.381	ug/L		99
80) Bromoform	11.408	173	18316	10.273	ug/L		99
82) Isopropylbenzene	11.687	105	189629	10.353	ug/L		100
84) Bromobenzene	12.161	156	43043	10.508	ug/L		99
85) n-Propylbenzene	12.183	91	208476	10.520	ug/L		98
86) 1,4-Dichlorobutane	12.210	55	57349	10.890	ug/L		97
87) 1,1,2,2-Tetrachloroethane	12.270	83	27898	10.030	ug/L		98
88) 4-Ethyltoluene	12.314	105	178596	11.020	ug/L		100
89) 2-Chlorotoluene	12.374	91	137123	10.422	ug/L		95
90) 1,3,5-Trimethylbenzene	12.412	105	145651	10.270	ug/L		100
91) 1,2,3-Trichloropropane	12.429	75	25396M3	9.600	ug/L		
92) trans-1,4-Dichloro-2-b...	12.472	53	8258	9.733	ug/L	#	16
93) 4-Chlorotoluene	12.565	91	129046	10.265	ug/L		96
94) tert-Butylbenzene	12.783	119	125951	10.500	ug/L		97
97) 1,2,4-Trimethylbenzene	12.865	105	146331	10.469	ug/L		99
98) sec-Butylbenzene	12.985	105	162886	10.901	ug/L		99
99) p-Isopropyltoluene	13.143	119	140595	10.169	ug/L		97
100) 1,3-Dichlorobenzene	13.242	146	77925	10.213	ug/L		98
101) 1,4-Dichlorobenzene	13.340	146	76801	9.934	ug/L		98
102) p-Diethylbenzene	13.553	119	74131	10.004	ug/L		97
103) n-Butylbenzene	13.618	91	101088	9.862	ug/L		98
104) 1,2-Dichlorobenzene	13.809	146	66109	9.842	ug/L		98
105) 1,2,4,5-Tetramethylben...	14.426	119	111996	10.030	ug/L		97
106) 1,2-Dibromo-3-chloropr...	14.671	155	3367	9.623	ug/L		98
107) 1,3,5-Trichlorobenzene	14.698	180	33198	9.272	ug/L		98
108) Hexachlorobutadiene	15.337	225	9698	9.212	ug/L		99
109) 1,2,4-Trichlorobenzene	15.375	180	29517	9.324	ug/L		96
110) Naphthalene	15.741	128	60976	8.689	ug/L		100
111) 1,2,3-Trichlorobenzene	15.953	180	22779	9.353	ug/L		98

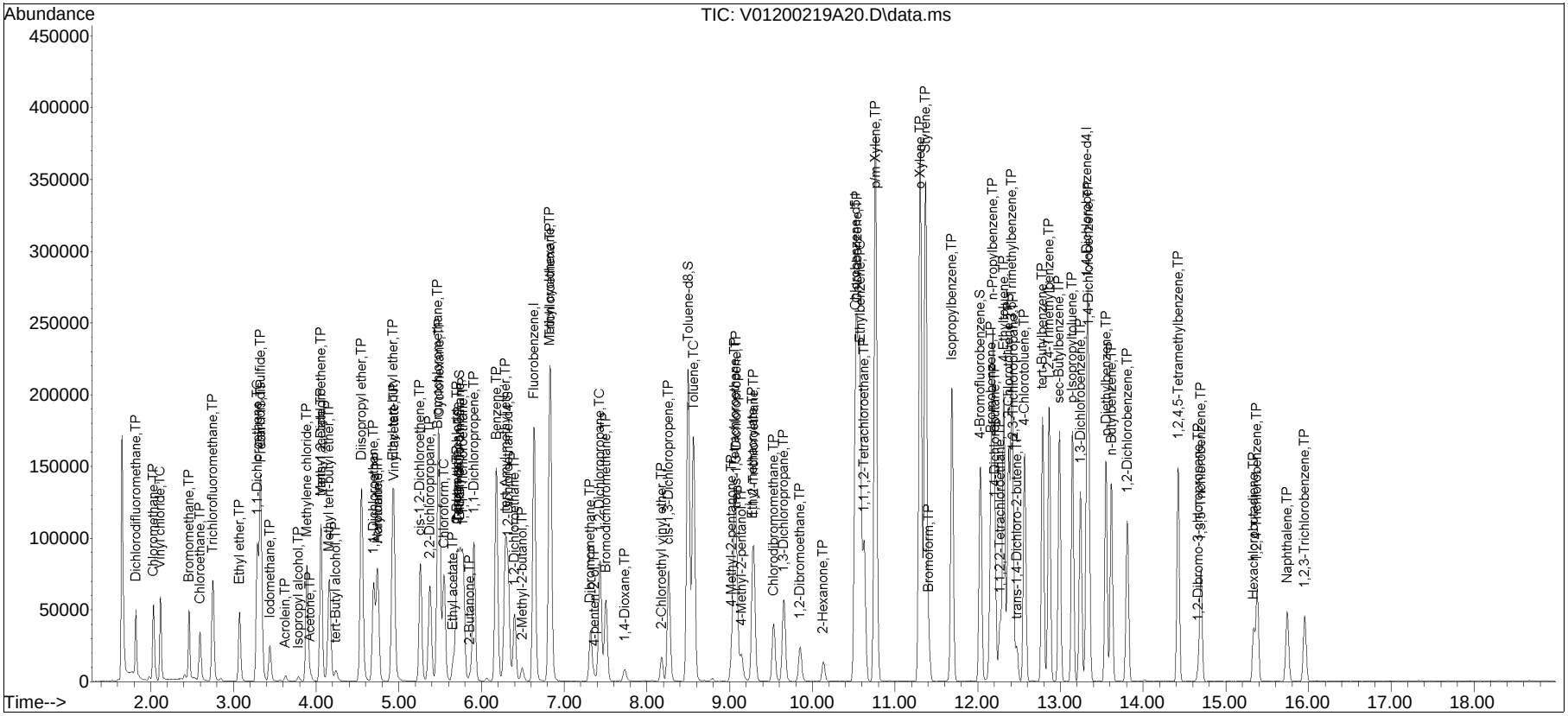
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200219A\
Data File : V01200219A20.D
Acq On : 19 Feb 2020 9:09 pm
Operator : VOA101:KJD
Sample : C8260STD10PPB
Misc : WG1342454
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 19 21:35:47 2020
Quant Method : I:\VOLATILES\VOA101\2020\200219A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 19 21:32:55 2020
Response via : Initial Calibration

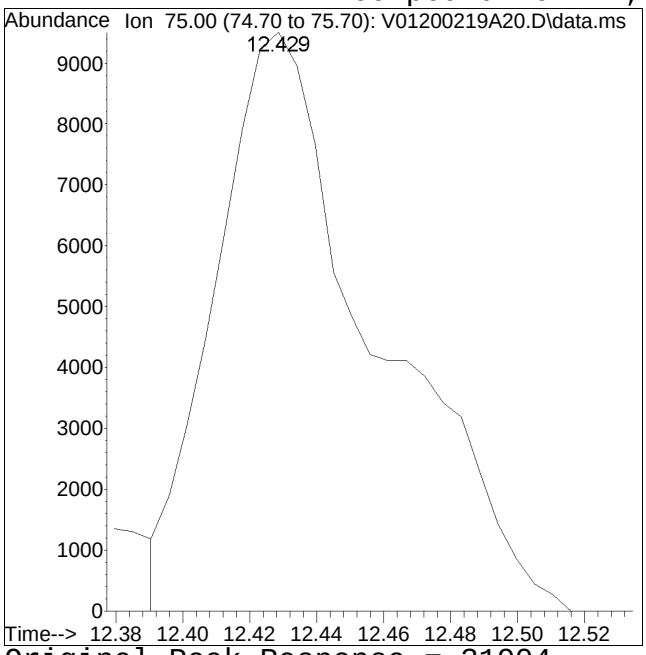
Sub List : 8260-CurveAlc - All compounds listed\V01200219A08.D•

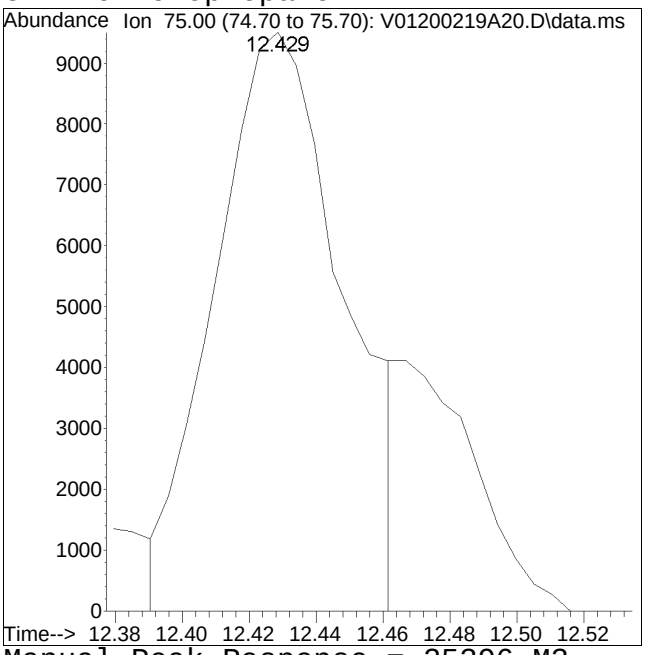


Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200219A20.D Operator : VOA101:KJD
Date Inj'd : 2/19/2020 9:09 pm Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 2/19/2020 9:34 pm

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 31904 Manual Peak Response = 25396 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: VOA122	**Calibration Date**	: 03/06/20 09:46		
Lab File ID	: V22200306A01	**Init. Calib. Date(s)**	: 12/19/19	12/19/19	
Sample No	: WG1348135-2	**Init. Calib. Times**	: 15:43	19:28	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	78	0
Dichlorodifluoromethane	0.172	0.162	-	5.8	20	67	0
Chloromethane	0.227	0.231	-	-1.8	20	74	0
Vinyl chloride	0.255	0.226	-	11.4	20	63	0
Bromomethane	10	3.068	-	69.3*	20	24	0
Chloroethane	0.184	0.143	-	22.3*	20	53	0
Trichlorofluoromethane	0.348	0.387	-	-11.2	20	78	0
Ethyl ether	0.103	0.097	-	5.8	20	71	0
1,1-Dichloroethene	0.196	0.187	-	4.6	20	67	0
Carbon disulfide	0.512	0.551	-	-7.6	20	77	0
Freon-113	0.215	0.197	-	8.4	20	64	0
Iodomethane	10	2.656	-	73.4*	20	13	0
Acrolein	0.03	0.026*	-	13.3	20	67	0
Methylene chloride	0.222	0.216	-	2.7	20	72	0
Acetone	0.057	0.047*	-	17.5	20	67	0
trans-1,2-Dichloroethene	0.211	0.203	-	3.8	20	69	0
Methyl acetate	0.098	0.099*	-	-1	20	82	0
Methyl tert-butyl ether	0.466	0.507	-	-8.8	20	77	0
tert-Butyl alcohol	0.015	0.015*	-	0	20	82	0
Diisopropyl ether	0.655	0.597	-	8.9	20	69	0
1,1-Dichloroethane	0.423	0.435	-	-2.8	20	75	0
Halothane	0.185	0.155	-	16.2	20	61	0
Acrylonitrile	0.053	0.048*	-	9.4	20	70	0
Ethyl tert-butyl ether	0.64	0.61	-	4.7	20	71	0
Vinyl acetate	0.361	0.357	-	1.1	20	82	0
cis-1,2-Dichloroethene	0.26	0.252	-	3.1	20	70	0
2,2-Dichloropropane	0.244	0.29	-	-18.9	20	85	0
Bromochloromethane	0.108	0.105	-	2.8	20	66	0
Cyclohexane	0.417	0.352	-	15.6	20	61	0
Chloroform	0.416	0.434	-	-4.3	20	76	0
Ethyl acetate	0.153	0.133	-	13.1	20	68	0
Carbon tetrachloride	0.354	0.388	-	-9.6	20	77	0
Tetrahydrofuran	0.054	0.047*	-	13	20	69	0
Dibromofluoromethane	0.289	0.268	-	7.3	20	72	0
1,1,1-Trichloroethane	0.381	0.422	-	-10.8	20	79	0
2-Butanone	0.071	0.056*	-	21.1*	20	63	0
1,1-Dichloropropene	0.319	0.309	-	3.1	20	70	0
Benzene	0.888	0.85	-	4.3	20	69	0
tert-Amyl methyl ether	0.606	0.575	-	5.1	20	72	0
1,2-Dichloroethane-d4	0.334	0.409	-	-22.5*	20	102	0
1,2-Dichloroethane	0.225	0.207	-	8	20	71	0
Methyl cyclohexane	0.433	0.327	-	24.5*	20	54	0
Trichloroethene	0.251	0.23	-	8.4	20	67	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: VOA122	**Calibration Date**	: 03/06/20 09:46		
Lab File ID	: V22200306A01	**Init. Calib. Date(s)**	: 12/19/19	12/19/19	
Sample No	: WG1348135-2	**Init. Calib. Times**	: 15:43	19:28	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.134	0.128	-	4.5	20	71	0
1,2-Dichloropropane	0.237	0.205	-	13.5	20	65	0
2-Chloroethyl vinyl ether	0.105	0.021*	-	80*	20	14	0
Bromodichloromethane	0.317	0.325	-	-2.5	20	77	0
1,4-Dioxane	0.00156	0.00158*	-	-1.3	20	86	0
cis-1,3-Dichloropropene	0.388	0.382	-	1.5	20	72	0
Chlorobenzene-d5	1	1	-	0	20	71	0
Toluene-d8	1.292	1.336	-	-3.4	20	72	0
Toluene	0.719	0.751	-	-4.5	20	70	0
4-Methyl-2-pentanone	0.07	0.069*	-	1.4	20	71	0
Tetrachloroethene	0.356	0.35	-	1.7	20	66	0
trans-1,3-Dichloropropene	0.388	0.433	-	-11.6	20	75	0
Ethyl methacrylate	0.265	0.26	-	1.9	20	70	0
1,1,2-Trichloroethane	0.188	0.186	-	1.1	20	67	0
Chlorodibromomethane	0.278	0.281	-	-1.1	20	70	0
1,3-Dichloropropane	0.382	0.395	-	-3.4	20	71	0
1,2-Dibromoethane	0.229	0.22	-	3.9	20	65	0
2-Hexanone	0.122	0.11	-	9.8	20	65	0
Chlorobenzene	0.808	0.807	-	0.1	20	68	0
Ethylbenzene	1.399	1.489	-	-6.4	20	71	0
1,1,1,2-Tetrachloroethane	0.297	0.299	-	-0.7	20	67	0
p/m Xylene	0.563	0.561	-	0.4	20	67	0
o Xylene	0.53	0.524	-	1.1	20	68	0
Styrene	0.871	0.86	-	1.3	20	67	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	75	0
Bromoform	0.365	0.353	-	3.3	20	74	0
Isopropylbenzene	3.255	3.186	-	2.1	20	68	0
4-Bromofluorobenzene	0.982	0.956	-	2.6	20	72	0
Bromobenzene	0.677	0.651	-	3.8	20	68	0
n-Propylbenzene	3.4	3.35	-	1.5	20	68	0
1,4-Dichlorobutane	0.725	0.711	-	1.9	20	73	0
1,1,2,2-Tetrachloroethane	0.503	0.46	-	8.5	20	67	0
4-Ethyltoluene	2.646	2.629	-	0.6	20	68	0
2-Chlorotoluene	2.171	2.26	-	-4.1	20	72	0
1,3,5-Trimethylbenzene	2.311	2.33	-	-0.8	20	70	0
1,2,3-Trichloropropane	0.432	0.427	-	1.2	20	74	0
trans-1,4-Dichloro-2-buten	0.143	0.13	-	9.1	20	69	0
4-Chlorotoluene	1.972	2.059	-	-4.4	20	73	0
tert-Butylbenzene	2.041	1.953	-	4.3	20	67	0
1,2,4-Trimethylbenzene	2.239	2.324	-	-3.8	20	74	0
sec-Butylbenzene	2.916	2.599	-	10.9	20	65	0
p-Isopropyltoluene	2.532	2.352	-	7.1	20	69	0
1,3-Dichlorobenzene	1.305	1.279	-	2	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: VOA122	**Calibration Date**	: 03/06/20 09:46		
Lab File ID	: V22200306A01	**Init. Calib. Date(s)**	: 12/19/19	12/19/19	
Sample No	: WG1348135-2	**Init. Calib. Times**	: 15:43	19:28	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene	1.285	1.258	-	2.1	20	69	0
p-Diethylbenzene	1.29	1.25	-	3.1	20	69	0
n-Butylbenzene	1.982	2.033	-	-2.6	20	71	0
1,2-Dichlorobenzene	1.16	1.124	-	3.1	20	69	0
1,2,4,5-Tetramethylbenzene	1.725	1.755	-	-1.7	20	75	0
1,2-Dibromo-3-chloropropan	0.088	0.073	-	17	20	65	0
1,3,5-Trichlorobenzene	0.726	0.75	-	-3.3	20	73	0
Hexachlorobutadiene	0.244	0.28	-	-14.8	20	81	0
1,2,4-Trichlorobenzene	0.666	0.691	-	-3.8	20	74	0
Naphthalene	1.544	1.348	-	12.7	20	66	0
1,2,3-Trichlorobenzene	0.611	0.62	-	-1.5	20	74	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: VOA101	**Calibration Date**	: 03/07/20 09:31		
Lab File ID	: V01200307A01	**Init. Calib. Date(s)**	: 02/19/20	02/19/20	
Sample No	: WG1348564-2	**Init. Calib. Times**	: 15:13	20:21	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	115	0
Dichlorodifluoromethane	0.18	0.167	-	7.2	20	106	0
Chloromethane	0.273	0.315	-	-15.4	20	135	0
Vinyl chloride	0.255	0.269	-	-5.5	20	122	0
Bromomethane	0.104	0.099*	-	4.8	20	130	0
Chloroethane	0.148	0.174	-	-17.6	20	132	0
Trichlorofluoromethane	0.297	0.319	-	-7.4	20	123	0
Ethyl ether	0.085	0.096	-	-12.9	20	127	0
1,1-Dichloroethene	0.182	0.204	-	-12.1	20	128	0
Carbon disulfide	0.492	0.526	-	-6.9	20	127	0
Freon-113	0.179	0.196	-	-9.5	20	123	0
Iodomethane	0.239	0.053	-	77.8*	20	26	0
Acrolein	0.024	0.027*	-	-12.5	20	136	0
Methylene chloride	0.19	0.225	-	-18.4	20	136	0
Acetone	10	15.321	-	-53.2*	20	170	0
trans-1,2-Dichloroethene	0.193	0.219	-	-13.5	20	131	0
Methyl acetate	0.095	0.11	-	-15.8	20	130	0
Methyl tert-butyl ether	0.412	0.463	-	-12.4	20	130	0
tert-Butyl alcohol	0.00992	0.01176*	-	-18.5	20	128	0
Diisopropyl ether	0.716	0.875	-	-22.2*	20	137	0
1,1-Dichloroethane	0.415	0.477	-	-14.9	20	130	0
Halothane	0.156	0.169	-	-8.3	20	123	0
Acrylonitrile	0.042	0.051	-	-21.4*	20	134	0
Ethyl tert-butyl ether	0.633	0.735	-	-16.1	20	133	0
Vinyl acetate	0.419	0.489	-	-16.7	20	136	0
cis-1,2-Dichloroethene	0.23	0.267	-	-16.1	20	135	0
2,2-Dichloropropane	0.289	0.347	-	-20.1*	20	137	0
Bromochloromethane	0.088	0.108	-	-22.7*	20	135	0
Cyclohexane	0.438	0.492	-	-12.3	20	129	0
Chloroform	0.361	0.416	-	-15.2	20	134	0
Ethyl acetate	0.136	0.147	-	-8.1	20	131	0
Carbon tetrachloride	0.291	0.305	-	-4.8	20	119	0
Tetrahydrofuran	0.038	0.045*	-	-18.4	20	135	-.01
Dibromofluoromethane	0.258	0.249	-	3.5	20	111	0
1,1,1-Trichloroethane	0.338	0.366	-	-8.3	20	125	0
2-Butanone	0.055	0.066*	-	-20	20	135	0
1,1-Dichloropropene	0.289	0.319	-	-10.4	20	127	0
Benzene	0.799	0.879	-	-10	20	128	0
tert-Amyl methyl ether	0.471	0.511	-	-8.5	20	126	0
1,2-Dichloroethane-d4	0.276	0.269	-	2.5	20	113	0
1,2-Dichloroethane	0.251	0.294	-	-17.1	20	134	0
Methyl cyclohexane	0.327	0.347	-	-6.1	20	123	0
Trichloroethene	0.22	0.242	-	-10	20	129	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: VOA101	**Calibration Date**	: 03/07/20 09:31		
Lab File ID	: V01200307A01	**Init. Calib. Date(s)**	: 02/19/20	02/19/20	
Sample No	: WG1348564-2	**Init. Calib. Times**	: 15:13	20:21	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.095	0.107	-	-12.6	20	131	0
1,2-Dichloropropane	0.227	0.261	-	-15	20	130	0
2-Chloroethyl vinyl ether	0.07	0.058	-	17.1	20	117	0
Bromodichloromethane	0.262	0.282	-	-7.6	20	126	0
1,4-Dioxane	0.00093	0.00126*	-	-35.5*	20	153	-.01
cis-1,3-Dichloropropene	0.322	0.353	-	-9.6	20	127	0
Chlorobenzene-d5	1	1	-	0	20	116	0
Toluene-d8	1.429	1.384	-	3.1	20	112	0
Toluene	0.722	0.794	-	-10	20	128	0
4-Methyl-2-pentanone	0.066	0.072*	-	-9.1	20	123	0
Tetrachloroethene	0.308	0.325	-	-5.5	20	123	0
trans-1,3-Dichloropropene	0.379	0.407	-	-7.4	20	128	0
Ethyl methacrylate	0.252	0.258	-	-2.4	20	122	0
1,1,2-Trichloroethane	0.165	0.181	-	-9.7	20	125	0
Chlorodibromomethane	0.242	0.243	-	-0.4	20	119	0
1,3-Dichloropropane	0.35	0.378	-	-8	20	127	0
1,2-Dibromoethane	0.191	0.206	-	-7.9	20	128	0
2-Hexanone	0.124	0.121	-	2.4	20	122	0
Chlorobenzene	0.772	0.853	-	-10.5	20	129	0
Ethylbenzene	1.353	1.475	-	-9	20	127	0
1,1,1,2-Tetrachloroethane	0.281	0.29	-	-3.2	20	123	0
p/m Xylene	0.525	0.576	-	-9.7	20	128	0
o Xylene	0.491	0.54	-	-10	20	128	0
Styrene	0.823	0.894	-	-8.6	20	128	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	122	0
Bromoform	0.253	0.247	-	2.4	20	116	0
Isopropylbenzene	2.604	2.8	-	-7.5	20	125	0
4-Bromofluorobenzene	1.078	1.025	-	4.9	20	113	0
Bromobenzene	0.582	0.636	-	-9.3	20	130	0
n-Propylbenzene	2.817	3.111	-	-10.4	20	130	0
1,4-Dichlorobutane	0.749	0.822	-	-9.7	20	132	0
1,1,2,2-Tetrachloroethane	0.395	0.413	-	-4.6	20	126	0
4-Ethyltoluene	2.304	2.533	-	-9.9	20	130	0
2-Chlorotoluene	1.87	2.089	-	-11.7	20	134	0
1,3,5-Trimethylbenzene	2.016	2.214	-	-9.8	20	131	0
1,2,3-Trichloropropane	0.372	0.373	-	-0.3	20	124	0
trans-1,4-Dichloro-2-buten	0.121	0.134	-	-10.7	20	131	0
4-Chlorotoluene	1.787	1.995	-	-11.6	20	133	0
tert-Butylbenzene	1.705	1.844	-	-8.2	20	129	0
1,2,4-Trimethylbenzene	1.987	2.198	-	-10.6	20	135	0
sec-Butylbenzene	2.124	2.282	-	-7.4	20	132	0
p-Isopropyltoluene	1.965	2.136	-	-8.7	20	134	0
1,3-Dichlorobenzene	1.085	1.222	-	-12.6	20	138	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793	
Project Name	: GROSSINGERS	**Project Number**	: 9313	
Instrument ID	: VOA101	**Calibration Date**	: 03/07/20 09:31	
Lab File ID	: V01200307A01	**Init. Calib. Date(s)**	: 02/19/20	02/19/20
Sample No	: WG1348564-2	**Init. Calib. Times**	: 15:13	20:21
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene	1.099	1.242	-	-13	20	141	0
p-Diethylbenzene	1.053	1.153	-	-9.5	20	137	0
n-Butylbenzene	1.457	1.626	-	-11.6	20	141	0
1,2-Dichlorobenzene	0.955	1.048	-	-9.7	20	139	0
1,2,4,5-Tetramethylbenzene	1.587	1.635	-	-3	20	131	0
1,2-Dibromo-3-chloropropan	10	9.233	-	7.7	20	113	0
1,3,5-Trichlorobenzene	0.509	0.53	-	-4.1	20	132	0
Hexachlorobutadiene	0.15	0.156	-	-4	20	140	0
1,2,4-Trichlorobenzene	0.45	0.443	-	1.6	20	135	0
Naphthalene	0.998	0.874	-	12.4	20	125	0
1,2,3-Trichlorobenzene	0.346	0.313	-	9.5	20	125	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	78	0.00
2	TP	Dichlorodifluoromethane	0.172	0.162	5.8	67	0.00
3	TP	Chloromethane	0.227	0.231	-1.8	74	0.00
4	TC	Vinyl chloride	0.255	0.226	11.4	63	0.00
5	TP	Bromomethane	* 10.000	3.068	69.3#	24#	0.00
6	TP	Chloroethane	0.184	0.143	22.3#	53	0.00
7	TP	Trichlorofluoromethane	0.348	0.387	-11.2	78	0.00
8	TP	Ethyl ether	0.103	0.097	5.8	71	0.00
10	TC	1,1-Dichloroethene	0.196	0.187	4.6	67	0.00
11	TP	Carbon disulfide	0.512	0.551	-7.6	77	0.00
12	TP	Freon-113	0.215	0.197	8.4	64	0.00
13	TP	Iodomethane	* 10.000	2.656	73.4#	13#	0.00
14	TP	Acrolein	0.030	0.026#	13.3	67	0.00
15	TP	Methylene chloride	0.222	0.216	2.7	72	0.00
17	TP	Acetone	0.057	0.047#	17.5	67	0.00
18	TP	trans-1,2-Dichloroethene	0.211	0.203	3.8	69	0.00
19	TP	Methyl acetate	0.098	0.099#	-1.0	82	0.00
21	TP	Methyl tert-butyl ether	0.466	0.507	-8.8	77	0.00
22	TP	tert-Butyl alcohol	0.015	0.015#	0.0	82	0.00
24	TP	Diisopropyl ether	0.655	0.597	8.9	69	0.00
25	TP	1,1-Dichloroethane	0.423	0.435	-2.8	75	0.00
26	TP	Halothane	0.185	0.155	16.2	61	0.00
27	TP	Acrylonitrile	0.053	0.048#	9.4	70	0.00
28	TP	Ethyl tert-butyl ether	0.640	0.610	4.7	71	0.00
29	TP	Vinyl acetate	0.361	0.357	1.1	82	0.00
30	TP	cis-1,2-Dichloroethene	0.260	0.252	3.1	70	0.00
31	TP	2,2-Dichloropropane	0.244	0.290	-18.9	85	0.00
32	TP	Bromochloromethane	0.108	0.105	2.8	66	0.00
33	TP	Cyclohexane	0.417	0.352	15.6	61	0.00
34	TC	Chloroform	0.416	0.434	-4.3	76	0.00
35	TP	Ethyl acetate	0.153	0.133	13.1	68	0.00
36	TP	Carbon tetrachloride	0.354	0.388	-9.6	77	0.00
37	TP	Tetrahydrofuran	0.054	0.047#	13.0	69	0.00
38	S	Dibromofluoromethane	0.289	0.268	7.3	72	0.00
39	TP	1,1,1-Trichloroethane	0.381	0.422	-10.8	79	0.00
41	TP	2-Butanone	0.071	0.056#	21.1#	63	0.00
42	TP	1,1-Dichloropropene	0.319	0.309	3.1	70	0.00
44	TP	Benzene	0.888	0.850	4.3	69	0.00
45	TP	tert-Amyl methyl ether	0.606	0.575	5.1	72	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	S	1,2-Dichloroethane-d4	0.334	0.409	-22.5#	102	0.00
47	T	1,2-Dichloroethane	0.225	0.207	8.0	71	0.00
50	TP	Methyl cyclohexane	0.433	0.327	24.5#	54	0.00
51	TP	Trichloroethene	0.251	0.230	8.4	67	0.00
53	TP	Dibromomethane	0.134	0.128	4.5	71	0.00
54	TC	1,2-Dichloropropane	0.237	0.205	13.5	65	0.00
56	TP	2-Chloroethyl vinyl ether	0.105	0.021#	80.0#	14#	0.00
57	TP	Bromodichloromethane	0.317	0.325	-2.5	77	0.00
60	TP	1,4-Dioxane	0.00156	0.00158#	-1.3	86	0.00
61	TP	cis-1,3-Dichloropropene	0.388	0.382	1.5	72	0.00
62	I	Chlorobenzene-d5	1.000	1.000	0.0	71	0.00
63	S	Toluene-d8	1.292	1.336	-3.4	72	0.00
64	TC	Toluene	0.719	0.751	-4.5	70	0.00
65	TP	4-Methyl-2-pentanone	0.070	0.069#	1.4	71	0.00
66	TP	Tetrachloroethene	0.356	0.350	1.7	66	0.00
68	TP	trans-1,3-Dichloropropene	0.388	0.433	-11.6	75	0.00
70	TP	Ethyl methacrylate	0.265	0.260	1.9	70	0.00
71	TP	1,1,2-Trichloroethane	0.188	0.186	1.1	67	0.00
72	TP	Chlorodibromomethane	0.278	0.281	-1.1	70	0.00
73	TP	1,3-Dichloropropane	0.382	0.395	-3.4	71	0.00
74	TP	1,2-Dibromoethane	0.229	0.220	3.9	65	0.00
76	TP	2-Hexanone	0.122	0.110	9.8	65	0.00
77	TP	Chlorobenzene	0.808	0.807	0.1	68	0.00
78	TC	Ethylbenzene	1.399	1.489	-6.4	71	0.00
79	TP	1,1,1,2-Tetrachloroethane	0.297	0.299	-0.7	67	0.00
80	TP	p/m Xylene	0.563	0.561	0.4	67	0.00
81	TP	o Xylene	0.530	0.524	1.1	68	0.00
82	TP	Styrene	0.871	0.860	1.3	67	0.00
83	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
84	TP	Bromoform	0.365	0.353	3.3	74	0.00
86	TP	Isopropylbenzene	3.255	3.186	2.1	68	0.00
87	S	4-Bromofluorobenzene	0.982	0.956	2.6	72	0.00
88	TP	Bromobenzene	0.677	0.651	3.8	68	0.00
89	TP	n-Propylbenzene	3.400	3.350	1.5	68	0.00
90	TP	1,4-Dichlorobutane	0.725	0.711	1.9	73	0.00
91	TP	1,1,2,2-Tetrachloroethane	0.503	0.460	8.5	67	0.00
92	TP	4-Ethyltoluene	2.646	2.629	0.6	68	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
93 TP	2-Chlorotoluene	2.171	2.260	-4.1	72	0.00
94 TP	1,3,5-Trimethylbenzene	2.311	2.330	-0.8	70	0.00
95 TP	1,2,3-Trichloropropane	0.432	0.427	1.2	74	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.143	0.130	9.1	69	0.00
97 TP	4-Chlorotoluene	1.972	2.059	-4.4	73	0.00
98 TP	tert-Butylbenzene	2.041	1.953	4.3	67	0.00
101 TP	1,2,4-Trimethylbenzene	2.239	2.324	-3.8	74	0.00
102 TP	sec-Butylbenzene	2.916	2.599	10.9	65	0.00
103 TP	p-Isopropyltoluene	2.532	2.352	7.1	69	0.00
104 TP	1,3-Dichlorobenzene	1.305	1.279	2.0	69	0.00
105 TP	1,4-Dichlorobenzene	1.285	1.258	2.1	69	0.00
106 TP	p-Diethylbenzene	1.290	1.250	3.1	69	0.00
107 TP	n-Butylbenzene	1.982	2.033	-2.6	71	0.00
108 TP	1,2-Dichlorobenzene	1.160	1.124	3.1	69	0.00
109 TP	1,2,4,5-Tetramethylbenzene	1.725	1.755	-1.7	75	0.00
110 TP	1,2-Dibromo-3-chloropropane	0.088	0.073	17.0	65	0.00
111 TP	1,3,5-Trichlorobenzene	0.726	0.750	-3.3	73	0.00
112 TP	Hexachlorobutadiene	0.244	0.280	-14.8	81	0.00
113 TP	1,2,4-Trichlorobenzene	0.666	0.691	-3.8	74	0.00
114 TP	Naphthalene	1.544	1.348	12.7	66	0.00
115 TP	1,2,3-Trichlorobenzene	0.611	0.620	-1.5	74	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 10 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.827	96	254411	10.000	ug/L	0.00
62) Chlorobenzene-d5	9.353	117	187639	10.000	ug/L	0.00
83) 1,4-Dichlorobenzene-d4	12.100	152	100182	10.000	ug/L	0.00
System Monitoring Compounds						
38) Dibromofluoromethane	5.018	113	68129	9.271	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.71%			
46) 1,2-Dichloroethane-d4	5.541	65	103995	12.248	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.48%			
63) Toluene-d8	7.511	98	250659	10.340	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.40%			
87) 4-Bromofluorobenzene	10.874	95	95819	9.740	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	41146	9.402	ug/L	97
3) Chloromethane	1.725	50	58706	10.158	ug/L	97
4) Vinyl chloride	1.787	62	57424	8.851	ug/L	100
5) Bromomethane	2.084	94	17858	3.068	ug/L	95
6) Chloroethane	2.185	64	36432	7.782	ug/L	99
7) Trichlorofluoromethane	2.326	101	98391	11.118	ug/L	99
8) Ethyl ether	2.622	74	24720	9.453	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	47674	9.558	ug/L #	70
11) Carbon disulfide	2.833	76	140151	10.762	ug/L	99
12) Freon-113	2.849	101	50221	9.185	ug/L	91
13) Iodomethane	2.942	142	5972M1	2.656	ug/L	
14) Acrolein	3.122	56	6488	8.526	ug/L	96
15) Methylene chloride	3.348	84	54885	9.713	ug/L	85
17) Acetone	3.395	43	12040	8.308	ug/L	96
18) trans-1,2-Dichloroethene	3.504	96	51596	9.628	ug/L	85
19) Methyl acetate	3.512	43	25079	10.030	ug/L	99
21) Methyl tert-butyl ether	3.598	73	129055	10.890	ug/L	95
22) tert-Butyl alcohol	3.676	59	19225	51.732	ug/L	96
24) Diisopropyl ether	3.957	45	151837	9.105	ug/L	95
25) 1,1-Dichloroethane	4.074	63	110704	10.280	ug/L	98
26) Halothane	4.121	117	39371	8.361	ug/L	99
27) Acrylonitrile	4.121	53	12183	9.068	ug/L	94
28) Ethyl tert-butyl ether	4.300	59	155247	9.531	ug/L	96
29) Vinyl acetate	4.308	43	90716	9.875	ug/L #	93
30) cis-1,2-Dichloroethene	4.581	96	64237	9.704	ug/L #	84

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) 2,2-Dichloropropane	4.683	77	73669	11.844	ug/L		96
32) Bromochloromethane	4.768	128	26588	9.686	ug/L	#	80
33) Cyclohexane	4.776	56	89624	8.455	ug/L		84
34) Chloroform	4.846	83	110295	10.431	ug/L		97
35) Ethyl acetate	4.964	43	33878	8.708	ug/L		97
36) Carbon tetrachloride	4.979	117	98707	10.963	ug/L		98
37) Tetrahydrofuran	4.995	42	12062	8.844	ug/L		96
39) 1,1,1-Trichloroethane	5.049	97	107380	11.084	ug/L		96
41) 2-Butanone	5.143	43	14205	7.822	ug/L		97
42) 1,1-Dichloropropene	5.166	75	78596	9.695	ug/L		94
44) Benzene	5.408	78	216135	9.572	ug/L		95
45) tert-Amyl methyl ether	5.525	73	146324	9.494	ug/L		98
47) 1,2-Dichloroethane	5.620	62	52622	9.209	ug/L		98
50) Methyl cyclohexane	5.992	83	83303	7.567	ug/L	#	82
51) Trichloroethene	6.000	95	58388	9.140	ug/L		93
53) Dibromomethane	6.433	93	32560	9.533	ug/L	#	84
54) 1,2-Dichloropropane	6.545	63	52177	8.639	ug/L		96
56) 2-Chloroethyl vinyl ether	7.237	63	5422	2.031	ug/L	#	82
57) Bromodichloromethane	6.614	83	82583	10.246	ug/L		97
60) 1,4-Dioxane	6.822	88	20049	504.717	ug/L	#	77
61) cis-1,3-Dichloropropene	7.306	75	97304	9.845	ug/L		92
64) Toluene	7.574	92	140891	10.444	ug/L		97
65) 4-Methyl-2-pentanone	8.018	58	12859	9.730	ug/L		91
66) Tetrachloroethene	8.018	166	65720	9.835	ug/L		89
68) trans-1,3-Dichloropropene	8.050	75	81223	11.168	ug/L		94
70) Ethyl methacrylate	8.253	69	48834	9.839	ug/L		100
71) 1,1,2-Trichloroethane	8.237	83	34885	9.881	ug/L		96
72) Chlorodibromomethane	8.440	129	52646	10.083	ug/L		98
73) 1,3-Dichloropropane	8.557	76	74029	10.338	ug/L		100
74) 1,2-Dibromoethane	8.721	107	41189	9.600	ug/L		99
76) 2-Hexanone	9.017	43	20660	9.046	ug/L		94
77) Chlorobenzene	9.376	112	151410	9.987	ug/L		96
78) Ethylbenzene	9.415	91	279398	10.644	ug/L		95
79) 1,1,1,2-Tetrachloroethane	9.454	131	56154	10.089	ug/L		95
80) p/m Xylene	9.610	106	210523	19.919	ug/L		90
81) o Xylene	10.149	106	196807	19.781	ug/L		88
82) Styrene	10.219	104	322641	19.747	ug/L		89
84) Bromoform	10.234	173	35320	9.659	ug/L		99
86) Isopropylbenzene	10.547	105	319174	9.787	ug/L		97
88) Bromobenzene	10.984	156	65201	9.616	ug/L		100
89) n-Propylbenzene	11.038	91	335652	9.856	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
90)	1,4-Dichlorobutane	11.054	55	71201	9.808	ug/L		92
91)	1,1,2,2-Tetrachloroethane	11.124	83	46073	9.142	ug/L		100
92)	4-Ethyltoluene	11.171	105	263407	9.936	ug/L		96
93)	2-Chlorotoluene	11.202	91	226386	10.407	ug/L		94
94)	1,3,5-Trimethylbenzene	11.273	105	233425	10.080	ug/L		95
95)	1,2,3-Trichloropropane	11.265	75	42788	9.898	ug/L		96
96)	trans-1,4-Dichloro-2-b...	11.319	53	13062	9.113	ug/L	#	81
97)	4-Chlorotoluene	11.390	91	206274	10.442	ug/L		93
98)	tert-Butylbenzene	11.616	119	195666	9.570	ug/L		92
101)	1,2,4-Trimethylbenzene	11.694	105	232810	10.380	ug/L		95
102)	sec-Butylbenzene	11.811	105	260421	8.914	ug/L		96
103)	p-Isopropyltoluene	11.968	119	235597	9.287	ug/L		94
104)	1,3-Dichlorobenzene	12.023	146	128150	9.799	ug/L		97
105)	1,4-Dichlorobenzene	12.121	146	126066	9.791	ug/L		97
106)	p-Diethylbenzene	12.343	119	125197	9.685	ug/L		95
107)	n-Butylbenzene	12.399	91	203640	10.255	ug/L		96
108)	1,2-Dichlorobenzene	12.545	146	112579	9.684	ug/L		96
109)	1,2,4,5-Tetramethylben...	13.144	119	175818	10.172	ug/L		95
110)	1,2-Dibromo-3-chloropr...	13.332	155	7351	8.297	ug/L		91
111)	1,3,5-Trichlorobenzene	13.367	180	75125	10.335	ug/L	#	96
112)	Hexachlorobutadiene	13.944	225	28044	11.461	ug/L		98
113)	1,2,4-Trichlorobenzene	13.965	180	69221	10.378	ug/L		98
114)	Naphthalene	14.265	128	135021	8.730	ug/L		100
115)	1,2,3-Trichlorobenzene	14.432	180	62159	10.162	ug/L		99

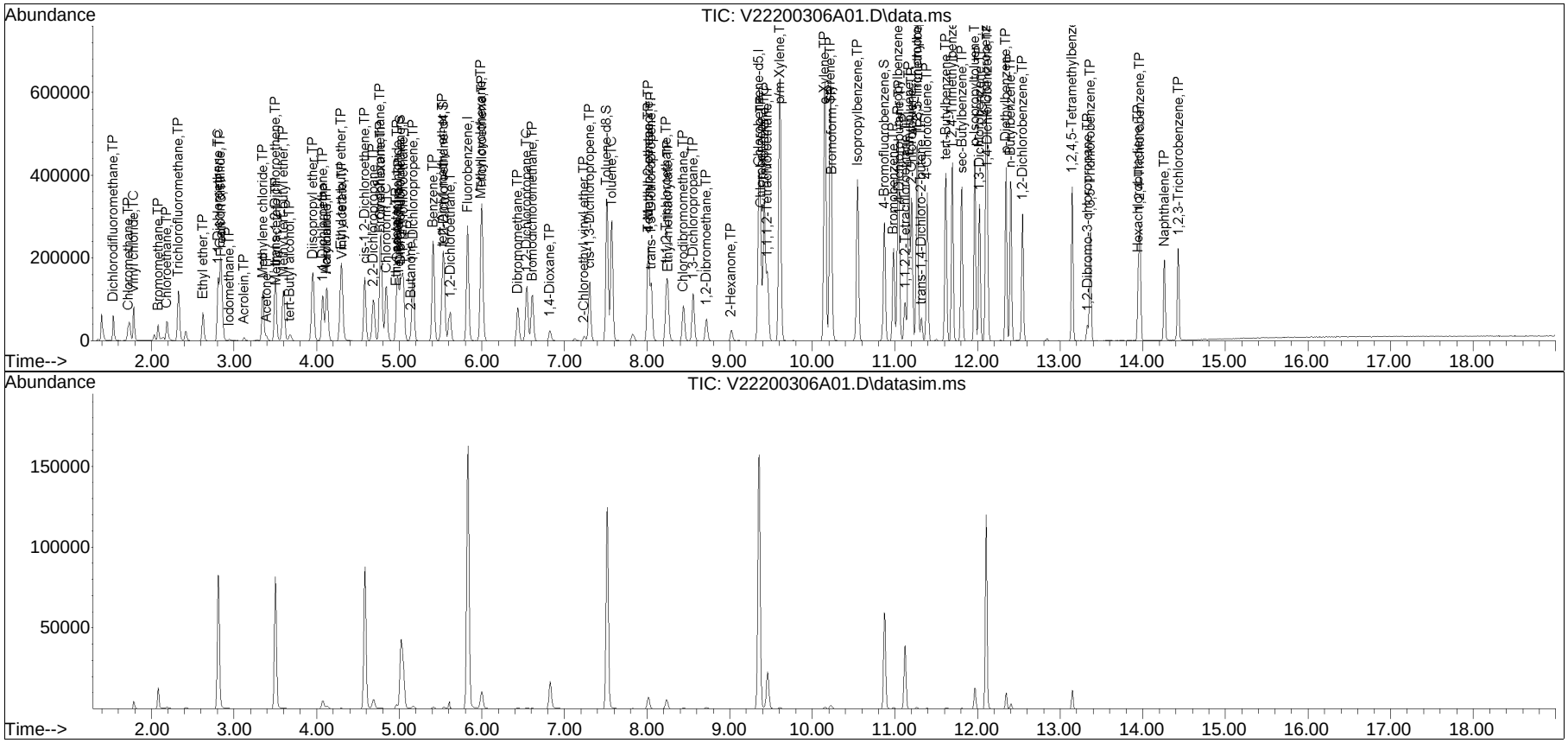
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

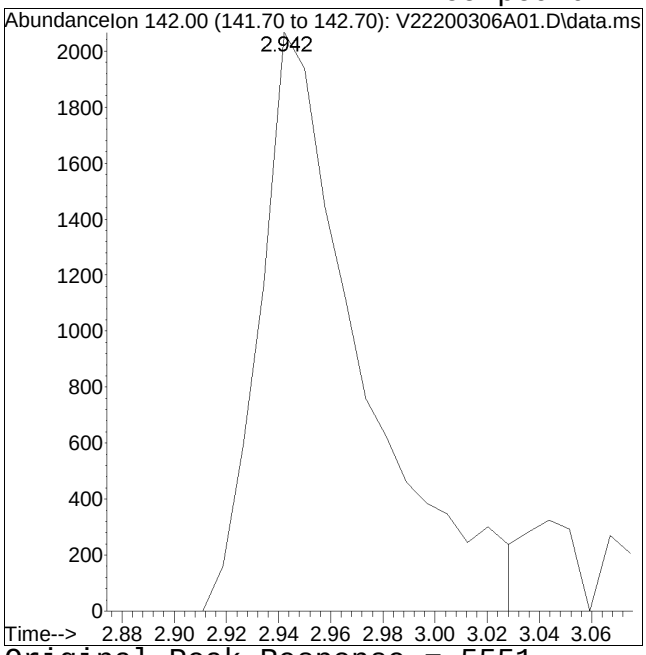
Sub List : 8260-Curve - Megamix plus Diox



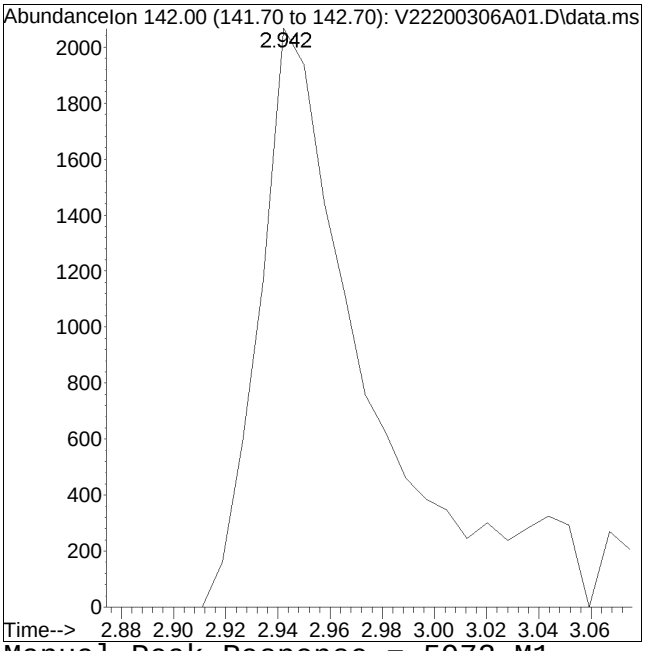
Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2020\2QMethod : V122_191219N_8260.m
Data File : V22200306A01.D Operator : VOA122:PD
Date Inj'd : 3/6/2020 9:46 am Instrument : VOA122
Sample : WG1348135-2 Quant Date : 3/6/2020 10:12 am

Compound #13: Iodomethane



Original Peak Response = 5551



Manual Peak Response = 5972 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	115	0.00
2	TP	Dichlorodifluoromethane	0.180	0.167	7.2	106	0.00
3	TP	Chloromethane	0.273	0.315	-15.4	135	0.00
4	TC	Vinyl chloride	0.255	0.269	-5.5	122	0.00
5	TP	Bromomethane	0.104	0.099#	4.8	130	0.00
6	TP	Chloroethane	0.148	0.174	-17.6	132	0.00
7	TP	Trichlorofluoromethane	0.297	0.319	-7.4	123	0.00
8	TP	Ethyl ether	0.085	0.096	-12.9	127	0.00
10	TC	1,1-Dichloroethene	0.182	0.204	-12.1	128	0.00
11	TP	Carbon disulfide	0.492	0.526	-6.9	127	0.00
12	TP	Freon-113	0.179	0.196	-9.5	123	0.00
13	TP	Iodomethane	0.239	0.053	77.8#	26#	0.00
14	TP	Acrolein	0.024	0.027#	-12.5	136	0.00
15	TP	Methylene chloride	0.190	0.225	-18.4	136	0.00
17	TP	Acetone	* 10.000	15.321	-53.2#	170	0.00
18	TP	trans-1,2-Dichloroethene	0.193	0.219	-13.5	131	0.00
19	TP	Methyl acetate	0.095	0.110	-15.8	130	0.00
20	TP	Methyl tert-butyl ether	0.412	0.463	-12.4	130	0.00
21	TP	tert-Butyl alcohol	0.00992	0.01176#	-18.5	128	0.00
22	TP	Diisopropyl ether	0.716	0.875	-22.2#	137	0.00
23	TP	1,1-Dichloroethane	0.415	0.477	-14.9	130	0.00
24	TP	Halothane	0.156	0.169	-8.3	123	0.00
25	TP	Acrylonitrile	0.042	0.051	-21.4#	134	0.00
26	TP	Ethyl tert-butyl ether	0.633	0.735	-16.1	133	0.00
27	TP	Vinyl acetate	0.419	0.489	-16.7	136	0.00
28	TP	cis-1,2-Dichloroethene	0.230	0.267	-16.1	135	0.00
29	TP	2,2-Dichloropropane	0.289	0.347	-20.1#	137	0.00
30	TP	Bromochloromethane	0.088	0.108	-22.7#	135	0.00
31	TP	Cyclohexane	0.438	0.492	-12.3	129	0.00
32	TC	Chloroform	0.361	0.416	-15.2	134	0.00
33	TP	Ethyl acetate	0.136	0.147	-8.1	131	0.00
34	TP	Carbon tetrachloride	0.291	0.305	-4.8	119	0.00
35	TP	Tetrahydrofuran	0.038	0.045#	-18.4	135	-0.01
36	S	Dibromofluoromethane	0.258	0.249	3.5	111	0.00
37	TP	1,1,1-Trichloroethane	0.338	0.366	-8.3	125	0.00
39	TP	2-Butanone	0.055	0.066#	-20.0#	135	0.00
40	TP	1,1-Dichloropropene	0.289	0.319	-10.4	127	0.00
41	TP	Benzene	0.799	0.879	-10.0	128	0.00
42	TP	tert-Amyl methyl ether	0.471	0.511	-8.5	126	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.276	0.269	2.5	113	0.00
44	TP	1,2-Dichloroethane	0.251	0.294	-17.1	134	0.00
47	TP	Methyl cyclohexane	0.327	0.347	-6.1	123	0.00
48	TP	Trichloroethene	0.220	0.242	-10.0	129	0.00
50	TP	Dibromomethane	0.095	0.107	-12.6	131	0.00
51	TC	1,2-Dichloropropane	0.227	0.261	-15.0	130	0.00
53	TP	2-Chloroethyl vinyl ether	0.070	0.058	17.1	117	0.00
54	TP	Bromodichloromethane	0.262	0.282	-7.6	126	0.00
57	TP	1,4-Dioxane	0.00093	0.00126#	-35.5#	153	-0.01
58	TP	cis-1,3-Dichloropropene	0.322	0.353	-9.6	127	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
60	S	Toluene-d8	1.429	1.384	3.1	112	0.00
61	TC	Toluene	0.722	0.794	-10.0	128	0.00
62	TP	4-Methyl-2-pentanone	0.066	0.072#	-9.1	123	0.00
63	TP	Tetrachloroethene	0.308	0.325	-5.5	123	0.00
65	TP	trans-1,3-Dichloropropene	0.379	0.407	-7.4	128	0.00
67	TP	Ethyl methacrylate	0.252	0.258	-2.4	122	0.00
68	TP	1,1,2-Trichloroethane	0.165	0.181	-9.7	125	0.00
69	TP	Chlorodibromomethane	0.242	0.243	-0.4	119	0.00
70	TP	1,3-Dichloropropane	0.350	0.378	-8.0	127	0.00
71	TP	1,2-Dibromoethane	0.191	0.206	-7.9	128	0.00
72	TP	2-Hexanone	0.124	0.121	2.4	122	0.00
73	TP	Chlorobenzene	0.772	0.853	-10.5	129	0.00
74	TC	Ethylbenzene	1.353	1.475	-9.0	127	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.281	0.290	-3.2	123	0.00
76	TP	p/m Xylene	0.525	0.576	-9.7	128	0.00
77	TP	o Xylene	0.491	0.540	-10.0	128	0.00
78	TP	Styrene	0.823	0.894	-8.6	128	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00
80	TP	Bromoform	0.253	0.247	2.4	116	0.00
82	TP	Isopropylbenzene	2.604	2.800	-7.5	125	0.00
83	S	4-Bromofluorobenzene	1.078	1.025	4.9	113	0.00
84	TP	Bromobenzene	0.582	0.636	-9.3	130	0.00
85	TP	n-Propylbenzene	2.817	3.111	-10.4	130	0.00
86	TP	1,4-Dichlorobutane	0.749	0.822	-9.7	132	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.395	0.413	-4.6	126	0.00
88	TP	4-Ethyltoluene	2.304	2.533	-9.9	130	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.870	2.089	-11.7	134	0.00
90 TP	1,3,5-Trimethylbenzene	2.016	2.214	-9.8	131	0.00
91 TP	1,2,3-Trichloropropane	0.372	0.373	-0.3	124	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.121	0.134	-10.7	131	0.00
93 TP	4-Chlorotoluene	1.787	1.995	-11.6	133	0.00
94 TP	tert-Butylbenzene	1.705	1.844	-8.2	129	0.00
97 TP	1,2,4-Trimethylbenzene	1.987	2.198	-10.6	135	0.00
98 TP	sec-Butylbenzene	2.124	2.282	-7.4	132	0.00
99 TP	p-Isopropyltoluene	1.965	2.136	-8.7	134	0.00
100 TP	1,3-Dichlorobenzene	1.085	1.222	-12.6	138	0.00
101 TP	1,4-Dichlorobenzene	1.099	1.242	-13.0	141	0.00
102 TP	p-Diethylbenzene	1.053	1.153	-9.5	137	0.00
103 TP	n-Butylbenzene	1.457	1.626	-11.6	141	0.00
104 TP	1,2-Dichlorobenzene	0.955	1.048	-9.7	139	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.587	1.635	-3.0	131	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	9.233	7.7	113	0.00
107 TP	1,3,5-Trichlorobenzene	0.509	0.530	-4.1	132	0.00
108 TP	Hexachlorobutadiene	0.150	0.156	-4.0	140	0.00
109 TP	1,2,4-Trichlorobenzene	0.450	0.443	1.6	135	0.00
110 TP	Naphthalene	0.998	0.874	12.4	125	0.00
111 TP	1,2,3-Trichlorobenzene	0.346	0.313	9.5	125	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 7 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	235149	10.000	ug/L	0.00
Standard Area 1 = 235149			Recovery = 100.00%			
59) Chlorobenzene-d5	10.519	117	168234	10.000	ug/L	0.00
Standard Area 1 = 168234			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	13.324	152	84540	10.000	ug/L	0.00
Standard Area 1 = 84540			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	58629	9.679	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.79%			
43) 1,2-Dichloroethane-d4	6.323	65	63193	9.733	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.33%			
60) Toluene-d8	8.495	98	232868	9.689	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.89%			
83) 4-Bromofluorobenzene	12.030	95	86682	9.512	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	39382	9.299	ug/L	99
3) Chloromethane	2.034	50	74082	11.559	ug/L	99
4) Vinyl chloride	2.122	62	63293	10.566	ug/L	98
5) Bromomethane	2.465	94	23347	9.590	ug/L	98
6) Chloroethane	2.602	64	40931	11.779	ug/L	97
7) Trichlorofluoromethane	2.755	101	75034	10.739	ug/L	98
8) Ethyl ether	3.076	74	22528	11.298	ug/L	69
10) 1,1-Dichloroethene	3.289	96	47950	11.222	ug/L	84
11) Carbon disulfide	3.322	76	123777	10.691	ug/L	99
12) Freon-113	3.333	101	46096	10.937	ug/L	89
13) Iodomethane	3.447	142	12507	2.222	ug/L	98
14) Acrolein	3.633	56	6388	11.540	ug/L	93
15) Methylene chloride	3.889	84	52915	11.865	ug/L	80
17) Acetone	3.928	43	13165	15.321	ug/L	94
18) trans-1,2-Dichloroethene	4.059	96	51485	11.322	ug/L	87
19) Methyl acetate	4.059	43	25958	11.671	ug/L #	89
20) Methyl tert-butyl ether	4.157	73	108978	11.262	ug/L	92
21) tert-Butyl alcohol	4.244	59	13829	59.257	ug/L	90
22) Diisopropyl ether	4.550	45	205837	12.230	ug/L	93
23) 1,1-Dichloroethane	4.692	63	112193	11.493	ug/L	97
24) Halothane	4.741	117	39650	10.814	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.741	53	12007	12.184	ug/L		96
26) Ethyl tert-butyl ether	4.926	59	172807	11.615	ug/L		95
27) Vinyl acetate	4.937	43	114967	11.662	ug/L		96
28) cis-1,2-Dichloroethene	5.259	96	62789	11.629	ug/L		85
29) 2,2-Dichloropropane	5.374	77	81576	12.014	ug/L		94
30) Bromochloromethane	5.472	128	25310	12.232	ug/L	#	81
31) Cyclohexane	5.483	56	115583	11.218	ug/L		84
32) Chloroform	5.543	83	97797	11.511	ug/L		97
33) Ethyl acetate	5.657	43	34479	10.820	ug/L	#	94
34) Carbon tetrachloride	5.706	117	71727	10.466	ug/L		97
35) Tetrahydrofuran	5.712	42	10531	11.855	ug/L		96
37) 1,1,1-Trichloroethane	5.772	97	86135	10.849	ug/L		97
39) 2-Butanone	5.865	43	15530	11.974	ug/L	#	42
40) 1,1-Dichloropropene	5.908	75	75126	11.046	ug/L		98
41) Benzene	6.176	78	206722	11.003	ug/L	#	92
42) tert-Amyl methyl ether	6.285	73	120113	10.835	ug/L		93
44) 1,2-Dichloroethane	6.394	62	69043	11.707	ug/L		99
47) Methyl cyclohexane	6.825	83	81529	10.614	ug/L	#	75
48) Trichloroethene	6.825	95	56959	11.002	ug/L		98
50) Dibromomethane	7.316	93	25266	11.339	ug/L		99
51) 1,2-Dichloropropane	7.431	63	61417	11.491	ug/L		96
53) 2-Chloroethyl vinyl ether	8.173	63	13541	8.235	ug/L		92
54) Bromodichloromethane	7.502	83	66289	10.773	ug/L		98
57) 1,4-Dioxane	7.725	88	14796	677.371	ug/L	#	83
58) cis-1,3-Dichloropropene	8.260	75	82924	10.959	ug/L		95
61) Toluene	8.560	92	133589	11.002	ug/L		96
62) 4-Methyl-2-pentanone	9.018	58	12059	10.897	ug/L		96
63) Tetrachloroethene	9.057	166	54675	10.541	ug/L		100
65) trans-1,3-Dichloropropene	9.078	75	68512	10.747	ug/L		90
67) Ethyl methacrylate	9.275	69	43416	10.255	ug/L		100
68) 1,1,2-Trichloroethane	9.291	83	30395	10.949	ug/L		98
69) Chlorodibromomethane	9.531	129	40816	10.018	ug/L		97
70) 1,3-Dichloropropane	9.651	76	63672	10.822	ug/L		99
71) 1,2-Dibromoethane	9.853	107	34698	10.808	ug/L		98
72) 2-Hexanone	10.137	43	20402	9.764	ug/L		96
73) Chlorobenzene	10.546	112	143555	11.058	ug/L		98
74) Ethylbenzene	10.573	91	248082	10.902	ug/L		100
75) 1,1,1,2-Tetrachloroethane	10.623	131	48778	10.318	ug/L		99
76) p/m Xylene	10.759	106	193825	21.945	ug/L		97
77) o Xylene	11.299	106	181852	22.014	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	11.370	104	300693	21.714	ug/L		99
80) Bromoform	11.403	173	20917	9.763	ug/L		98
82) Isopropylbenzene	11.687	105	236675	10.753	ug/L		99
84) Bromobenzene	12.156	156	53793	10.928	ug/L		99
85) n-Propylbenzene	12.183	91	263027	11.045	ug/L		98
86) 1,4-Dichlorobutane	12.205	55	69502	10.983	ug/L		100
87) 1,1,2,2-Tetrachloroethane	12.265	83	34953	10.458	ug/L		99
88) 4-Ethyltoluene	12.314	105	214115	10.994	ug/L		100
89) 2-Chlorotoluene	12.374	91	176634	11.172	ug/L		92
90) 1,3,5-Trimethylbenzene	12.412	105	187130	10.981	ug/L		100
91) 1,2,3-Trichloropropane	12.429	75	31528M1	10.017	ug/L		
92) trans-1,4-Dichloro-2-b...	12.467	53	11352	11.134	ug/L	#	15
93) 4-Chlorotoluene	12.565	91	168639	11.164	ug/L		97
94) tert-Butylbenzene	12.783	119	155854	10.813	ug/L		98
97) 1,2,4-Trimethylbenzene	12.860	105	185837	11.064	ug/L		99
98) sec-Butylbenzene	12.985	105	192927	10.745	ug/L		98
99) p-Isopropyltoluene	13.143	119	180605	10.871	ug/L		97
100) 1,3-Dichlorobenzene	13.242	146	103316	11.268	ug/L		99
101) 1,4-Dichlorobenzene	13.340	146	104984	11.300	ug/L		98
102) p-Diethylbenzene	13.547	119	97496	10.949	ug/L		97
103) n-Butylbenzene	13.613	91	137427	11.157	ug/L		99
104) 1,2-Dichlorobenzene	13.809	146	88616	10.979	ug/L		98
105) 1,2,4,5-Tetramethylben...	14.420	119	138194	10.300	ug/L		97
106) 1,2-Dibromo-3-chloropr...	14.666	155	3862	9.233	ug/L		95
107) 1,3,5-Trichlorobenzene	14.699	180	44789	10.410	ug/L		97
108) Hexachlorobutadiene	15.337	225	13218	10.449	ug/L		98
109) 1,2,4-Trichlorobenzene	15.375	180	37460	9.847	ug/L		98
110) Naphthalene	15.741	128	73889	8.762	ug/L		100
111) 1,2,3-Trichlorobenzene	15.953	180	26495	9.053	ug/L		97

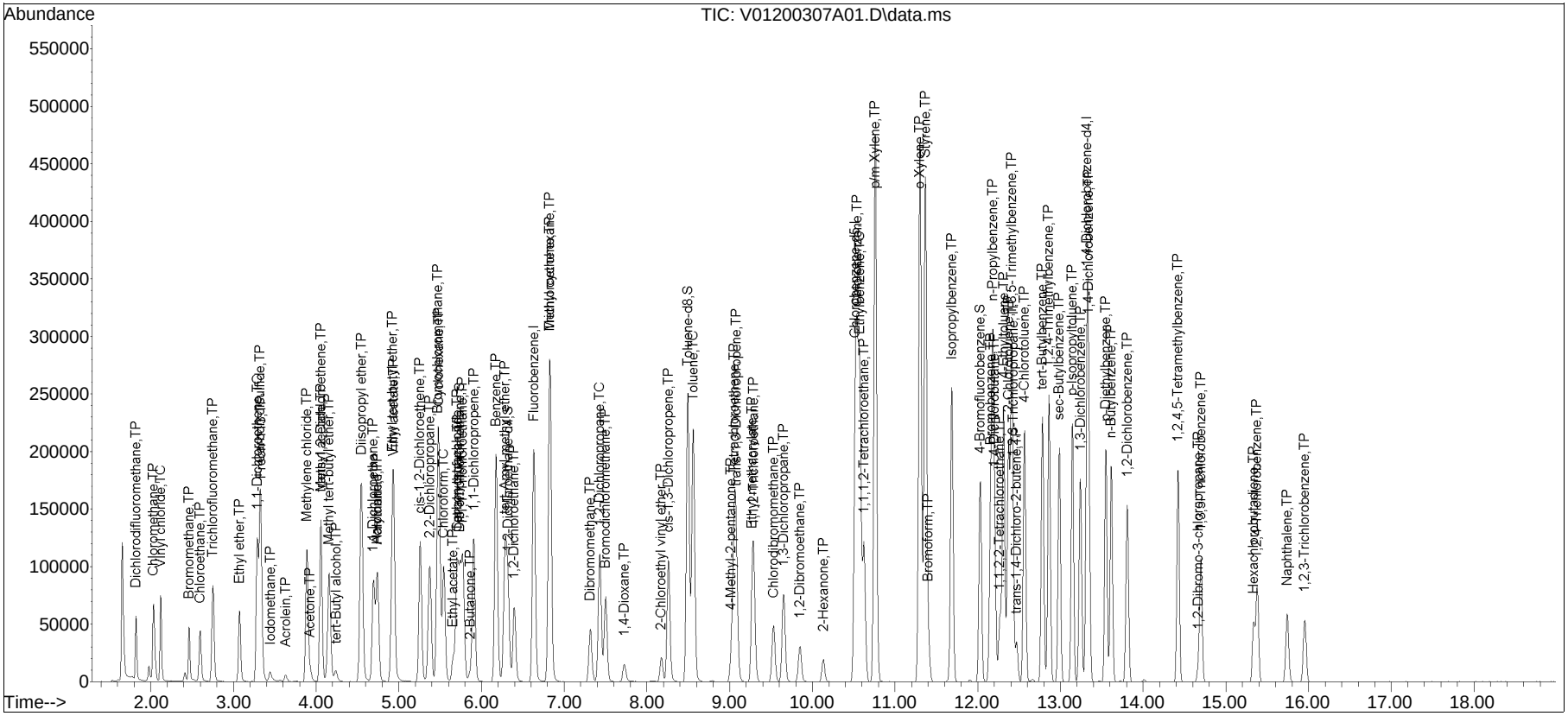
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-2
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

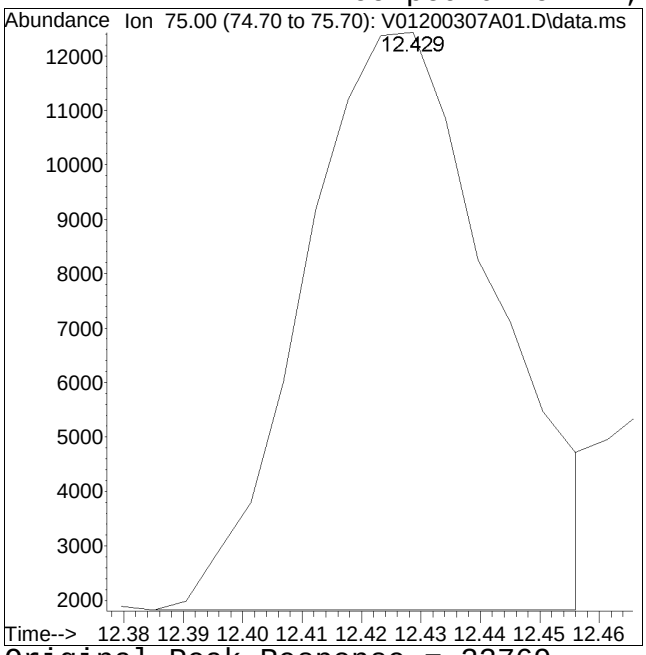
Sub List : 8260-Curve - Megamix plus Diox00307A\V01200307A01.D•



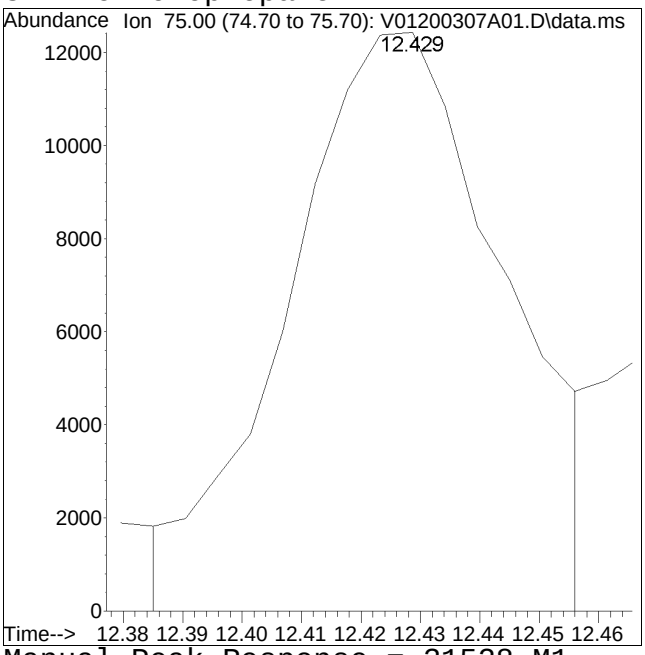
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200307A01.D Operator : VOA101:MKS
Date Inj'd : 3/7/2020 9:31 am Instrument : VOA 101
Sample : WG1348564-2 Quant Date : 3/7/2020 9:52 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 23769



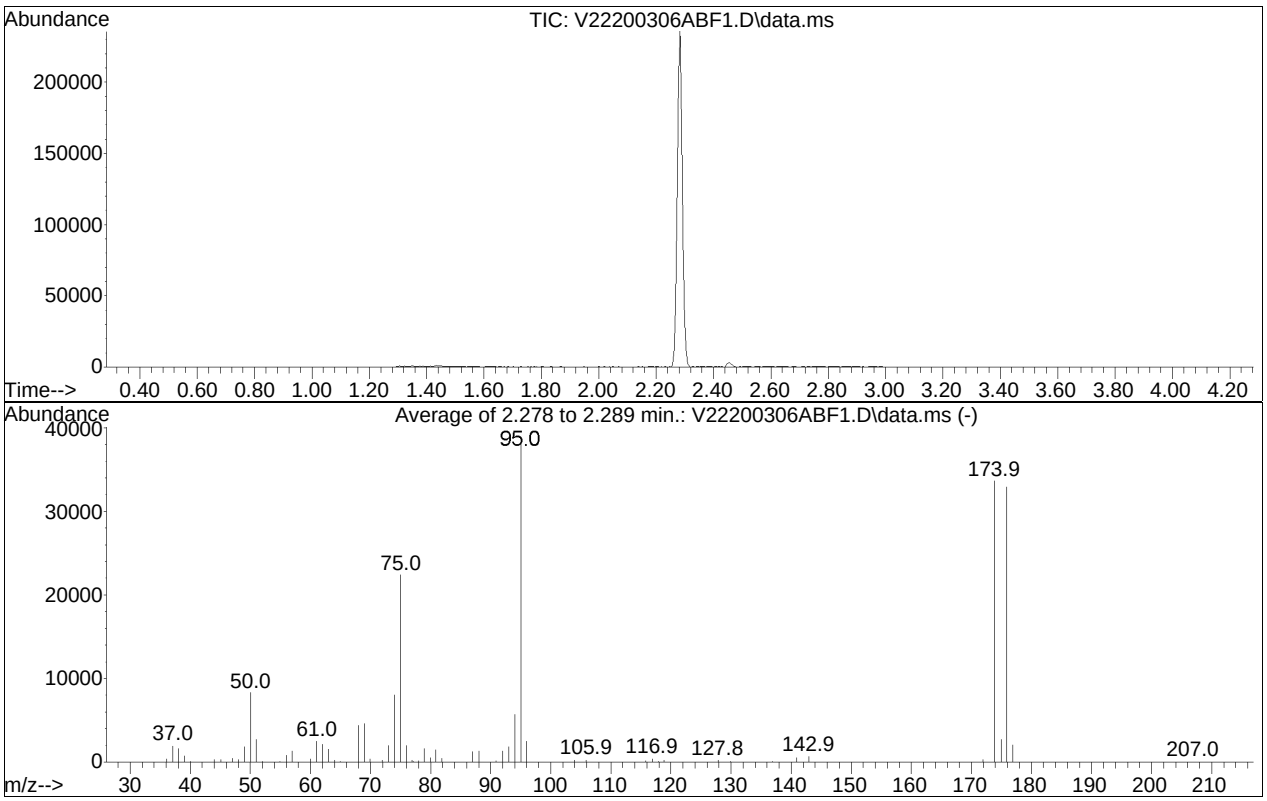
Manual Peak Response = 31528 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306ABF1.D
Acq On : 06 Mar 2020 09:33 am
Operator : VOA122:PD
Sample : WG1348135-1
Misc : WG1348135
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri Dec 20 07:20:50 2019



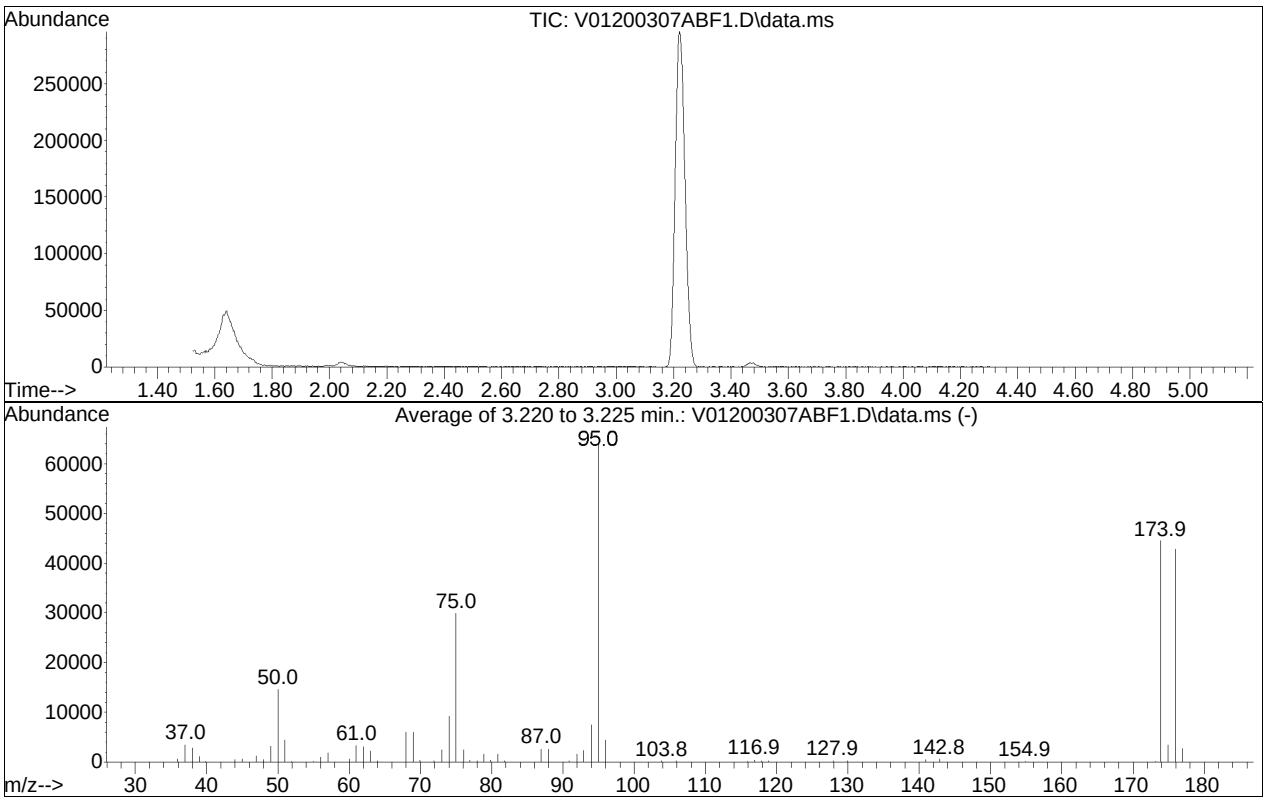
AutoFind: Scans 189, 190, 191; Background Corrected with Scan 182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	8302	PASS
75	95	30	60	58.7	22424	PASS
95	95	100	100	100.0	38221	PASS
96	95	5	9	6.6	2518	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.1	33669	PASS
175	174	5	9	8.2	2761	PASS
176	174	95	101	97.8	32915	PASS
177	176	5	9	6.3	2062	PASS

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307ABF1.D
Acq On : 7 Mar 2020 9:10 am
Operator : VOA101:MKS
Sample : WG1348564-1
Misc : WG1348564
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Feb 20 09:49:21 2020



AutoFind: Scans 587, 588, 589; Background Corrected with Scan 569

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	14605	PASS
75	95	30	60	46.7	30003	PASS
95	95	100	100	100.0	64221	PASS
96	95	5	9	6.9	4461	PASS
173	174	0.00	2	0.4	175	PASS
174	95	50	100	69.3	44525	PASS
175	174	5	9	7.8	3465	PASS
176	174	95	101	96.3	42880	PASS
177	176	5	9	6.4	2748	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 11:46:48 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.827	96	260517	10.000 ug/L	0.00
Standard Area 1 = 254411			Recovery = 102.40%		
62) Chlorobenzene-d5	9.353	117	191517	10.000 ug/L	0.00
Standard Area 1 = 187639			Recovery = 102.07%		
83) 1,4-Dichlorobenzene-d4	12.107	152	97483	10.000 ug/L	0.00
Standard Area 1 = 100182			Recovery = 97.31%		
System Monitoring Compounds					
38) Dibromofluoromethane	5.018	113	72349	9.615 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.15%		
46) 1,2-Dichloroethane-d4	5.549	65	105658	12.152 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 121.52%		
63) Toluene-d8	7.519	98	260250	10.518 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.18%		
87) 4-Bromofluorobenzene	10.874	95	96134	10.043 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.43%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.740	50	149	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D. d	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethyl ether	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.833	76	360	N.D.	
15) Methylene chloride	3.348	84	72	N.D.	
17) Acetone	0.000		0	N.D.	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
27) Acrylonitrile	0.000		0	N.D.	
29) Vinyl acetate	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
31) 2,2-Dichloropropane	0.000		0	N.D.	
32) Bromochloromethane	0.000		0	N.D.	
34) Chloroform	4.846	83	314	N.D.	

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 11:46:48 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon tetrachloride	0.000		0	N.D.		
39) 1,1,1-Trichloroethane	0.000		0	N.D.		
41) 2-Butanone	0.000		0	N.D.		
42) 1,1-Dichloropropene	0.000		0	N.D.		
44) Benzene	0.000		0	N.D.		
47) 1,2-Dichloroethane	0.000		0	N.D.		
51) Trichloroethene	0.000		0	N.D.		
53) Dibromomethane	0.000		0	N.D.		
54) 1,2-Dichloropropane	0.000		0	N.D.		
57) Bromodichloromethane	0.000		0	N.D.		
60) 1,4-Dioxane	0.000		0	N.D.		
61) cis-1,3-Dichloropropene	0.000		0	N.D.		
64) Toluene	0.000		0	N.D.		
65) 4-Methyl-2-pentanone	0.000		0	N.D.		
66) Tetrachloroethene	0.000		0	N.D.		
68) trans-1,3-Dichloropropene	0.000		0	N.D.		
71) 1,1,2-Trichloroethane	0.000		0	N.D.		
72) Chlorodibromomethane	0.000		0	N.D.		
73) 1,3-Dichloropropane	0.000		0	N.D.		
74) 1,2-Dibromoethane	0.000		0	N.D.		
76) 2-Hexanone	0.000		0	N.D.	d	
77) Chlorobenzene	0.000		0	N.D.		
78) Ethylbenzene	9.353	91	290	N.D.		
79) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.		
80) p/m Xylene	0.000		0	N.D.		
81) o Xylene	0.000		0	N.D.		
82) Styrene	0.000		0	N.D.		
84) Bromoform	0.000		0	N.D.		
86) Isopropylbenzene	0.000		0	N.D.		
88) Bromobenzene	0.000		0	N.D.		
89) n-Propylbenzene	11.054	91	152	N.D.		
91) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
92) 4-Ethyltoluene	0.000		0	N.D.		
93) 2-Chlorotoluene	11.054	91	152	N.D.		
94) 1,3,5-Trimethylbenzene	0.000		0	N.D.		
95) 1,2,3-Trichloropropane	0.000		0	N.D.		
96) trans-1,4-Dichloro-2-b...	0.000		0	N.D.		
97) 4-Chlorotoluene	11.405	91	79	N.D.		
98) tert-Butylbenzene	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 11:46:48 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	0.000		0	N.D.		
102) sec-Butylbenzene	0.000		0	N.D.		
103) p-Isopropyltoluene	11.974	119	73	N.D.		
104) 1,3-Dichlorobenzene	12.023	146	155	N.D.		
105) 1,4-Dichlorobenzene	12.114	146	322	N.D.		
106) p-Diethylbenzene	0.000		0	N.D.		
107) n-Butylbenzene	12.406	91	418	N.D.		
108) 1,2-Dichlorobenzene	0.000		0	N.D.		
109) 1,2,4,5-Tetramethylben...	13.144	119	160	N.D.		
110) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
112) Hexachlorobutadiene	13.944	225	334	0.140	ug/L #	74
113) 1,2,4-Trichlorobenzene	13.965	180	76	N.D.		
114) Naphthalene	14.272	128	377	N.D.		
115) 1,2,3-Trichlorobenzene	14.432	180	84	N.D.		

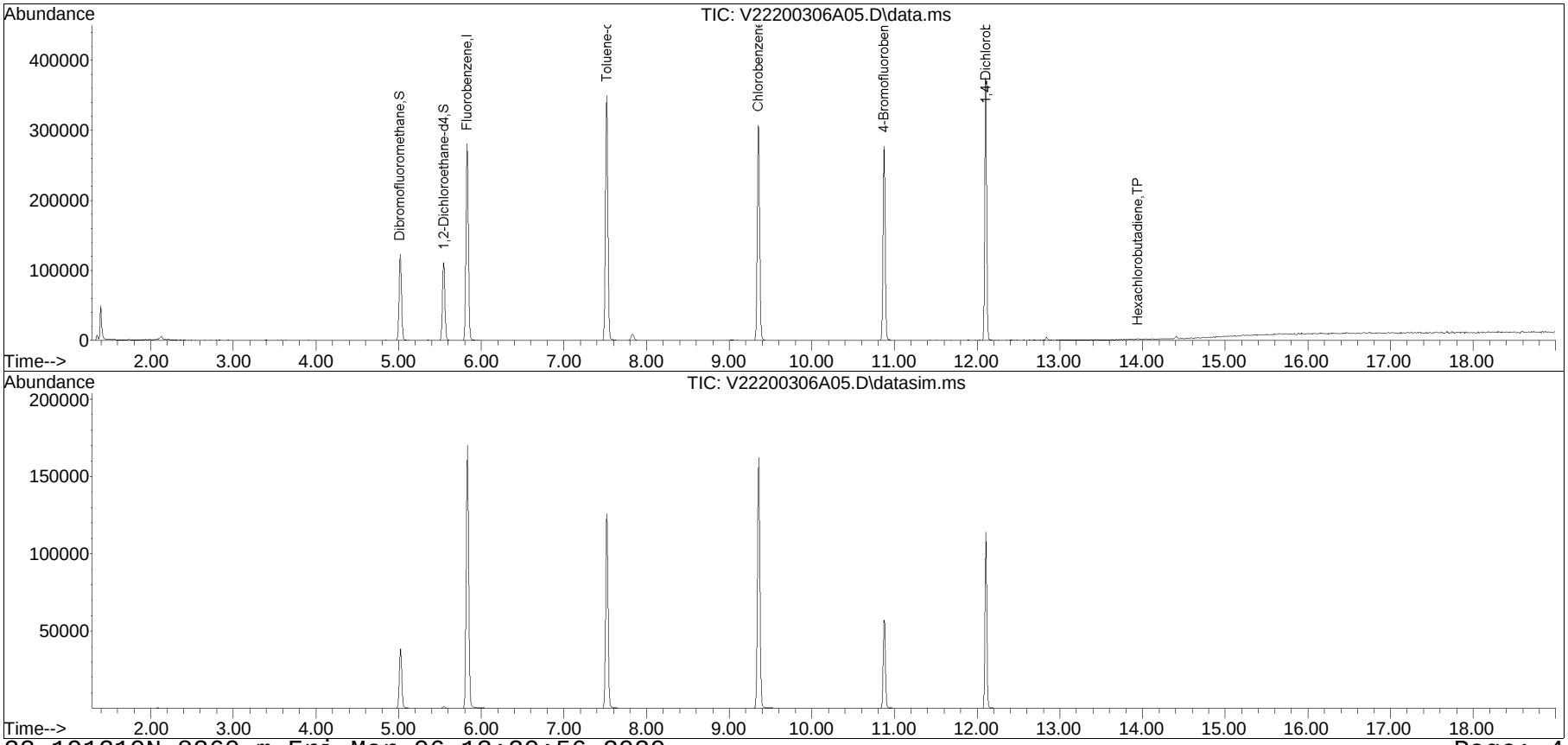
(#) = qualifier out of range (m) = manual integration (+) = signals summed

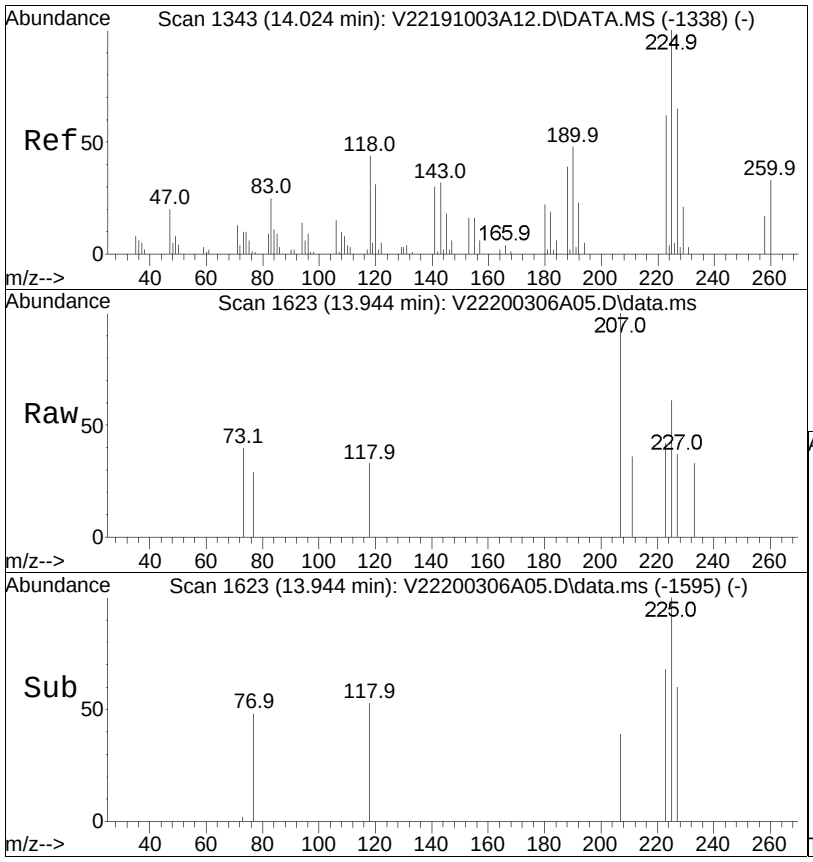
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 11:46:48 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox00306A\V22200306A01.D•

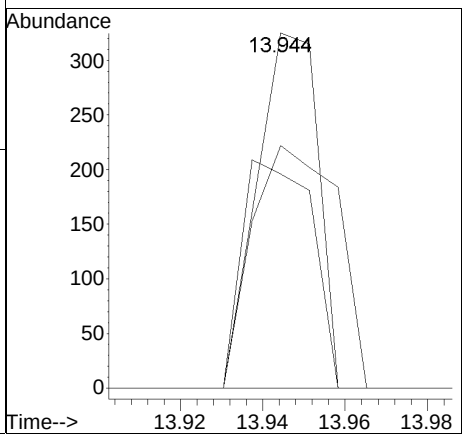




#112
Hexachlorobutadiene
Concen: 0.14 ug/L
RT: 13.944 min Scan# 1623
Delta R.T. -0.007 min
Lab File: V22200306A05.D
Acq: 06 Mar 2020 11:24 am

Tgt Ion:225 Resp: 334

Ion	Ratio	Lower	Upper
225	100		
223	95.2	49.8	74.8#
227	73.4	52.2	78.4



Manual Integration Report

Data Path	: I:\VOLATILES\VOA122\2020\2	QMethod	: V122_191219N_8260.m
Data File	: V22200306A05.D	Operator	: VOA122:PD
Date Inj'd	: 3/6/2020 11:24 am	Instrument	: VOA122
Sample	: WG1348135-5,31,10,10	Quant Date	: 3/6/2020 11:46 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: V22200306A05.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.018	471	478	489	rBB	123027	250030	35.22%	7.077%
2	5.541	535	545	555	rBV	110968	261698	36.87%	7.407%
3	5.827	566	577	590	rBV	280675	574346	80.91%	16.256%
4	7.519	764	772	784	rBV	349579	709859	100.00%	20.092%
5	7.831	805	812	820	rBB	8692	22436	3.16%	0.635%
6	9.353	997	1007	1018	rBB	307374	611975	86.21%	17.321%
7	10.874	1191	1200	1212	rBV	277537	499056	70.30%	14.125%
8	12.100	1352	1358	1372	rBV	375421	603672	85.04%	17.086%

Sum of corrected areas: 3533072

Signal : TIC: V22200306A05.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

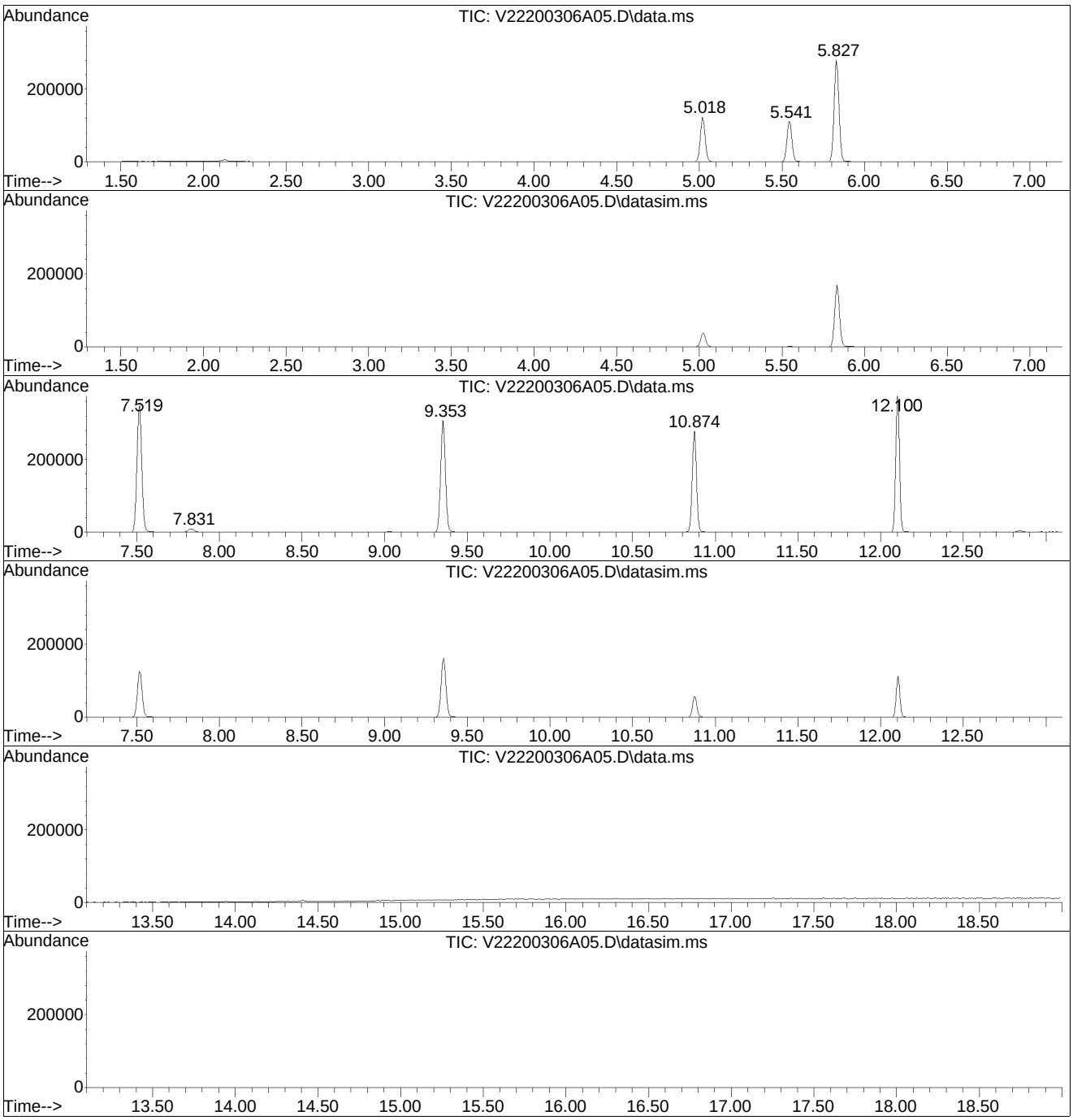
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A05.D
Acq On : 06 Mar 2020 11:24 am
Operator : VOA122:PD
Sample : WG1348135-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 15:41:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	209557	10.000	ug/L	0.00
Standard Area 1 = 235149			Recovery = 89.12%			
59) Chlorobenzene-d5	10.525	117	151704	10.000	ug/L	0.00
Standard Area 1 = 168234			Recovery = 90.17%			
79) 1,4-Dichlorobenzene-d4	13.324	152	77414	10.000	ug/L	0.00
Standard Area 1 = 84540			Recovery = 91.57%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	50385	9.334	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.34%			
43) 1,2-Dichloroethane-d4	6.323	65	56817	9.820	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.20%			
60) Toluene-d8	8.495	98	209014	9.644	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.44%			
83) 4-Bromofluorobenzene	12.031	95	78335	9.387	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.87%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.471	94	259	0.119	ug/L #	73
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
8) Ethyl ether	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.322	76	815	0.079	ug/L #	73
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.944	43	717	Below Cal	#	55
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
25) Acrylonitrile	0.000		0	N.D.		
27) Vinyl acetate	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
29) 2,2-Dichloropropane	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 15:41:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	0.000		0		N.D.	
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
40) 1,1-Dichloropropene	0.000		0		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
50) Dibromomethane	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
70) 1,3-Dichloropropane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	10.535	112	59		N.D.	
74) Ethylbenzene	10.519	91	119		N.D.	
75) 1,1,1,2-Tetrachloroethane	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
84) Bromobenzene	0.000		0		N.D.	
85) n-Propylbenzene	12.189	91	187		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
88) 4-Ethyltoluene	12.412	105	109		N.D.	
89) 2-Chlorotoluene	0.000		0		N.D.	
90) 1,3,5-Trimethylbenzene	12.412	105	109		N.D.	
91) 1,2,3-Trichloropropane	0.000		0		N.D.	
92) trans-1,4-Dichloro-2-b...	0.000		0		N.D.	
93) 4-Chlorotoluene	12.571	91	157		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 15:41:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	1,2,4-Trimethylbenzene	12.860	105	53	N.D.			
98)	sec-Butylbenzene	12.996	105	117	N.D.			
99)	p-Isopropyltoluene	13.144	119	222	N.D.			
100)	1,3-Dichlorobenzene	13.242	146	56	N.D.			
101)	1,4-Dichlorobenzene	13.346	146	342	N.D.			
102)	p-Diethylbenzene	0.000		0	N.D.			
103)	n-Butylbenzene	13.624	91	288	N.D.			
104)	1,2-Dichlorobenzene	0.000		0	N.D.			
105)	1,2,4,5-Tetramethylben...	14.426	119	228	N.D.			
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
108)	Hexachlorobutadiene	0.000		0	N.D.			
109)	1,2,4-Trichlorobenzene	15.370	180	290	0.083	ug/L	#	32
110)	Naphthalene	15.741	128	1554	0.201	ug/L		100
111)	1,2,3-Trichlorobenzene	15.948	180	374	0.140	ug/L	#	81

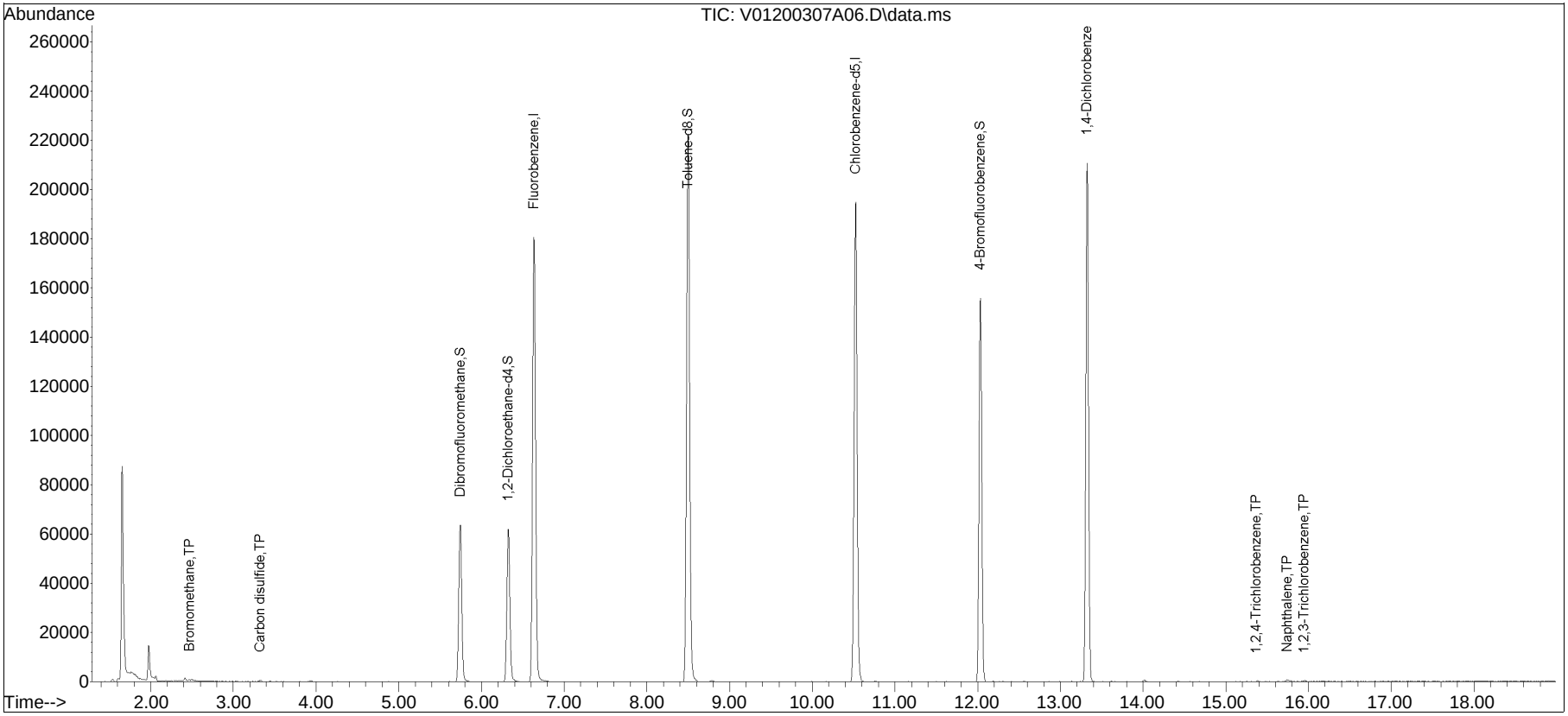
(#) = qualifier out of range (m) = manual integration (+) = signals summed

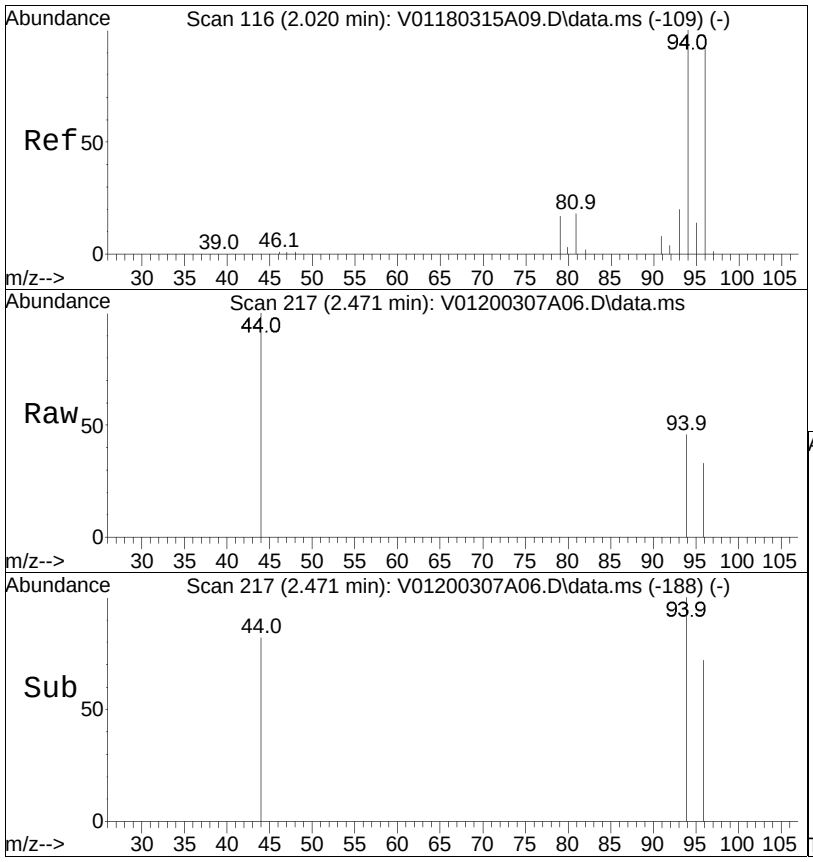
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 15:41:42 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox00307A\V01200307A01.D•

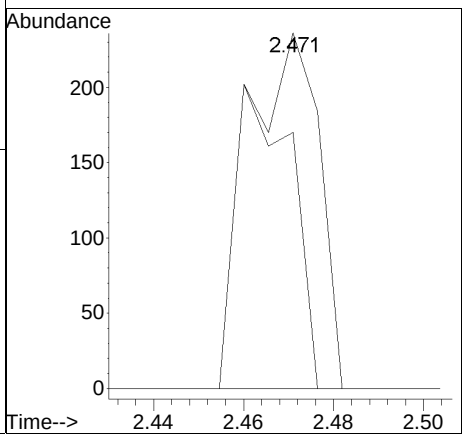


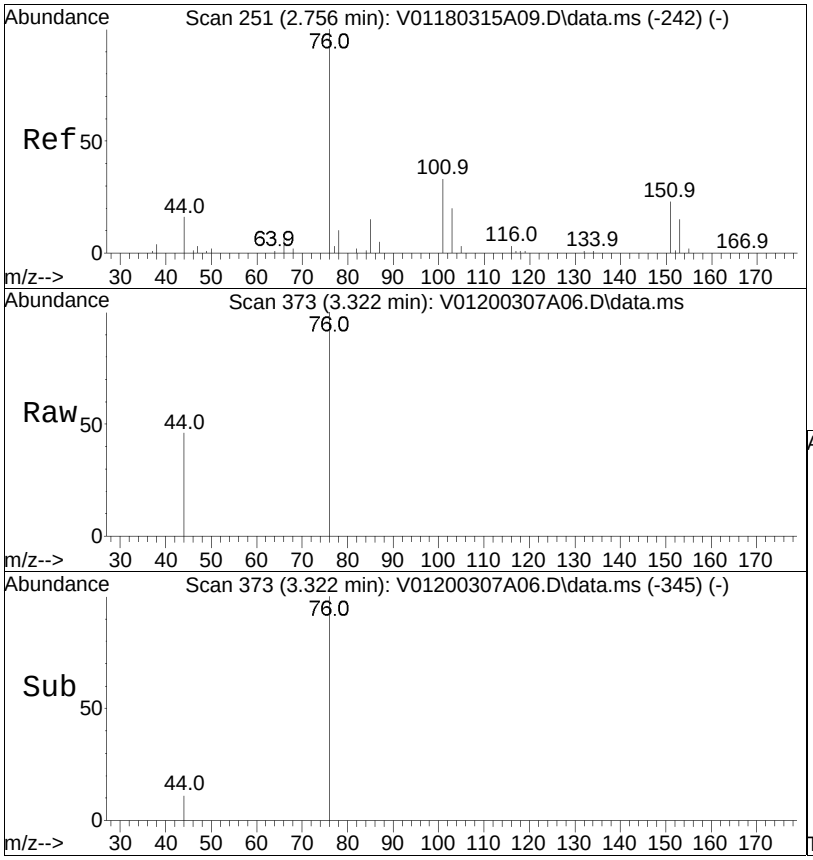


#5
Bromomethane
Concen: 0.12 ug/L
RT: 2.471 min Scan# 217
Delta R.T. 0.006 min
Lab File: V01200307A06.D
Acq: 7 Mar 2020 11:30 am

Tgt Ion: 94 Resp: 259

Ion	Ratio	Lower	Upper
94	100		
96	67.2	73.6	113.6#

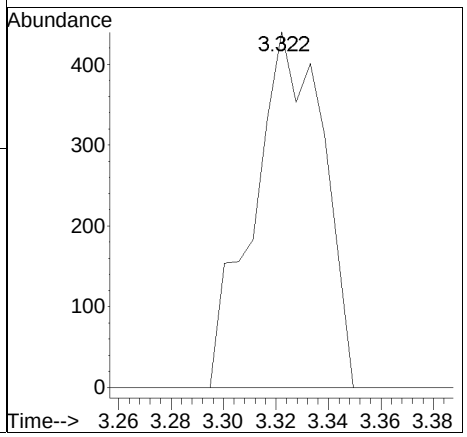


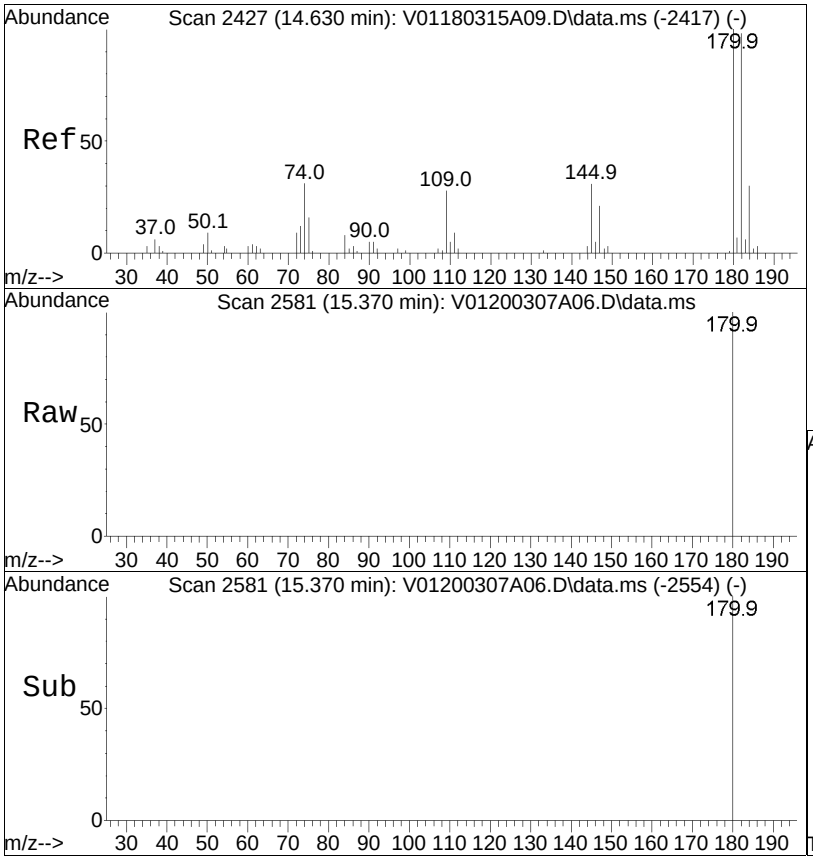


#11
Carbon disulfide
Concen: 0.08 ug/L
RT: 3.322 min Scan# 373
Delta R.T. 0.000 min
Lab File: V01200307A06.D
Acq: 7 Mar 2020 11:30 am

Tgt Ion: 76 Resp: 815

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.6	13.8#

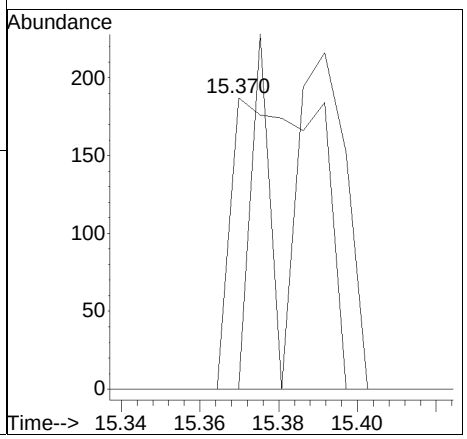


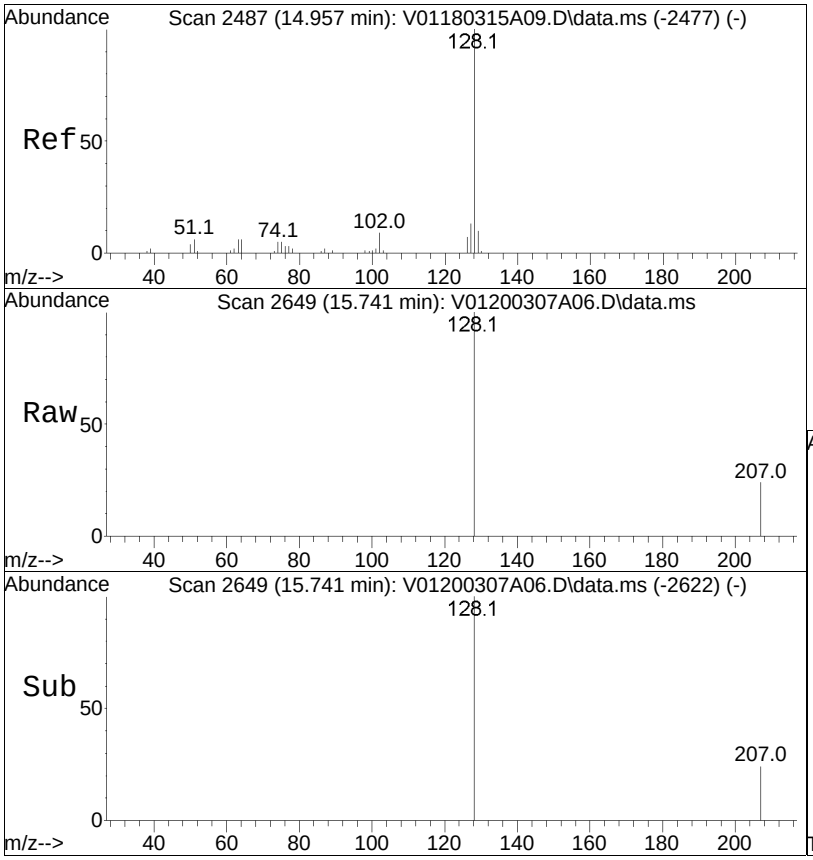


#109
1,2,4-Trichlorobenzene
Concen: 0.08 ug/L
RT: 15.370 min Scan# 2581
Delta R.T. -0.005 min
Lab File: V01200307A06.D
Acq: 7 Mar 2020 11:30 am

Tgt Ion:180 Resp: 290

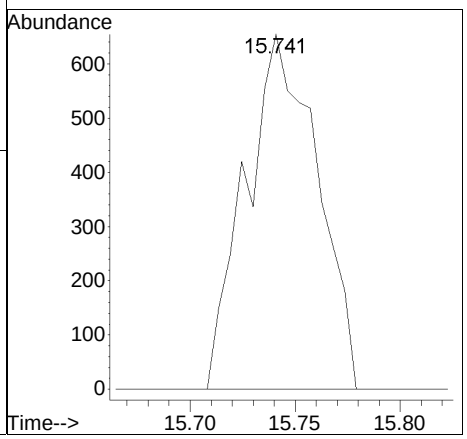
Ion	Ratio	Lower	Upper
180	100		
182	25.9	75.8	113.8#
145	0.0	26.1	39.1#

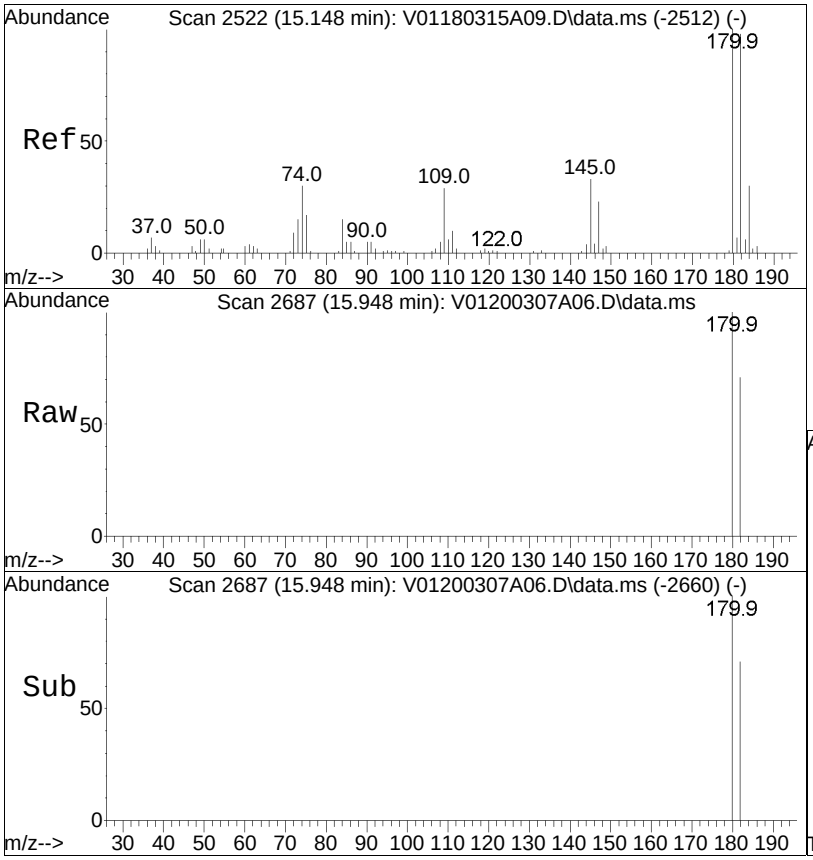




#110
Naphthalene
Concen: 0.20 ug/L
RT: 15.741 min Scan# 2649
Delta R.T. -0.000 min
Lab File: V01200307A06.D
Acq: 7 Mar 2020 11:30 am

Tgt Ion:128 Resp: 1554

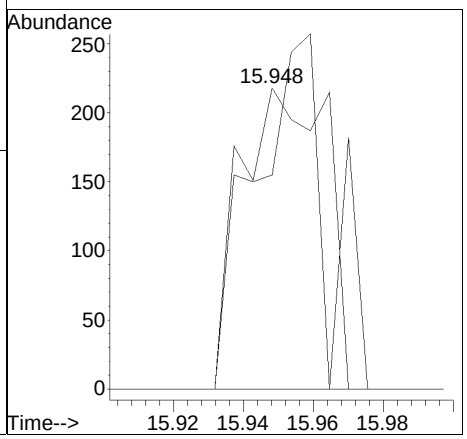




#111
1,2,3-Trichlorobenzene
Concen: 0.14 ug/L
RT: 15.948 min Scan# 2687
Delta R.T. -0.005 min
Lab File: V01200307A06.D
Acq: 7 Mar 2020 11:30 am

Tgt Ion:180 Resp: 374

Ion	Ratio	Lower	Upper
180	100		
182	100.0	75.4	113.0
145	0.0	25.0	37.6#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA101\2020\2	QMethod	: V101_200219A_8260.m
Data File	: V01200307A06.D	Operator	: VOA101:MKS
Date Inj'd	: 3/7/2020 11:30 am	Instrument	: VOA 101
Sample	: WG1348564-5,31,10,10	Quant Date	: 3/7/2020 2:41 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: V01200307A06.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.653	61	67	86	rBV	86630	158005	27.61%	5.565%
2	1.974	121	126	134	rBV	14166	22085	3.86%	0.778%
3	5.745	806	817	834	rBV	63738	159976	27.95%	5.634%
4	6.323	913	923	945	rBB	61962	156304	27.31%	5.505%
5	6.634	968	980	1003	rBV	180753	453876	79.30%	15.986%
6	8.500	1309	1322	1344	rBB	222352	572343	100.00%	20.158%
7	10.525	1681	1693	1708	rBB	194955	485668	84.86%	17.105%
8	12.031	1959	1969	1982	rBB	155843	357290	62.43%	12.584%
9	13.324	2195	2206	2223	rBB	210765	473722	82.77%	16.685%

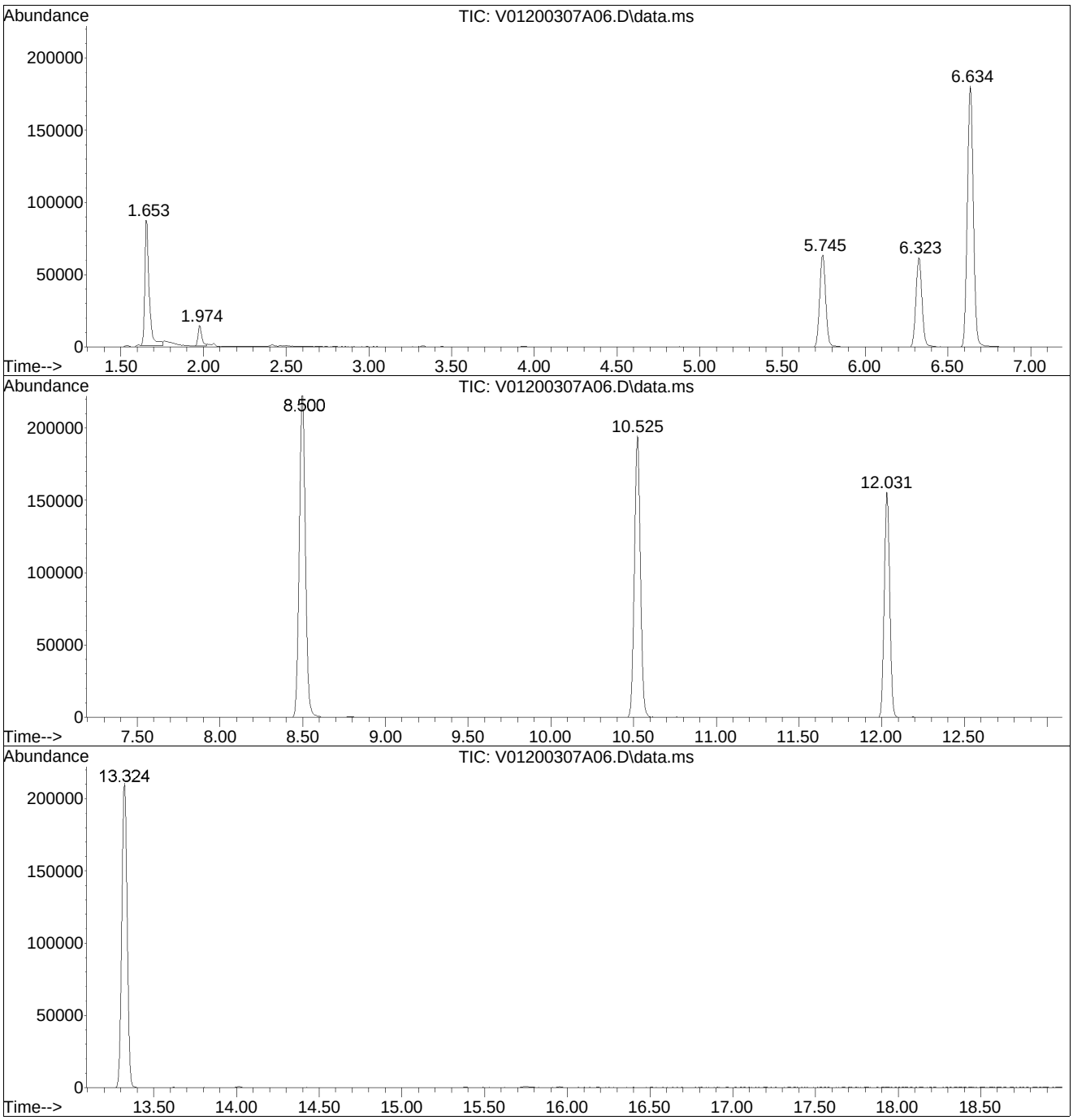
Sum of corrected areas: 2839269

LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A06.D
Acq On : 7 Mar 2020 11:30 am
Operator : VOA101:MKS
Sample : WG1348564-5,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

						Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.827	96	254411	10.000	ug/L		0.00
62) Chlorobenzene-d5	9.353	117	187639	10.000	ug/L		0.00
83) 1,4-Dichlorobenzene-d4	12.100	152	100182	10.000	ug/L		0.00
System Monitoring Compounds							
38) Dibromofluoromethane	5.018	113	68129	9.271	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.71%				
46) 1,2-Dichloroethane-d4	5.541	65	103995	12.248	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.48%				
63) Toluene-d8	7.511	98	250659	10.340	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.40%				
87) 4-Bromofluorobenzene	10.874	95	95819	9.740	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.537	85	41146	9.402	ug/L		97
3) Chloromethane	1.725	50	58706	10.158	ug/L		97
4) Vinyl chloride	1.787	62	57424	8.851	ug/L		100
5) Bromomethane	2.084	94	17858	3.068	ug/L		95
6) Chloroethane	2.185	64	36432	7.782	ug/L		99
7) Trichlorofluoromethane	2.326	101	98391	11.118	ug/L		99
8) Ethyl ether	2.622	74	24720	9.453	ug/L	#	1
10) 1,1-Dichloroethene	2.809	96	47674	9.558	ug/L	#	70
11) Carbon disulfide	2.833	76	140151	10.762	ug/L		99
15) Methylene chloride	3.348	84	54885	9.713	ug/L		85
17) Acetone	3.395	43	12040	8.308	ug/L		96
18) trans-1,2-Dichloroethene	3.504	96	51596	9.628	ug/L		85
21) Methyl tert-butyl ether	3.598	73	129055	10.890	ug/L		95
25) 1,1-Dichloroethane	4.074	63	110704	10.280	ug/L		98
27) Acrylonitrile	4.121	53	12183	9.068	ug/L		94
29) Vinyl acetate	4.308	43	90716	9.875	ug/L	#	93
30) cis-1,2-Dichloroethene	4.581	96	64237	9.704	ug/L	#	84
31) 2,2-Dichloropropane	4.683	77	73669	11.844	ug/L		96
32) Bromochloromethane	4.768	128	26588	9.686	ug/L	#	80
34) Chloroform	4.846	83	110295	10.431	ug/L		97
36) Carbon tetrachloride	4.979	117	98707	10.963	ug/L		98
39) 1,1,1-Trichloroethane	5.049	97	107380	11.084	ug/L		96
41) 2-Butanone	5.143	43	14205	7.822	ug/L		97
42) 1,1-Dichloropropene	5.166	75	78596	9.695	ug/L		94

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) Benzene	5.408	78	216135	9.572	ug/L		95
47) 1,2-Dichloroethane	5.620	62	52622	9.209	ug/L		98
51) Trichloroethene	6.000	95	58388	9.140	ug/L		93
53) Dibromomethane	6.433	93	32560	9.533	ug/L	#	84
54) 1,2-Dichloropropane	6.545	63	52177	8.639	ug/L		96
57) Bromodichloromethane	6.614	83	82583	10.246	ug/L		97
60) 1,4-Dioxane	6.822	88	20049	504.717	ug/L	#	77
61) cis-1,3-Dichloropropene	7.306	75	97304	9.845	ug/L		92
64) Toluene	7.574	92	140891	10.444	ug/L		97
65) 4-Methyl-2-pentanone	8.018	58	12859	9.730	ug/L		91
66) Tetrachloroethene	8.018	166	65720	9.835	ug/L		89
68) trans-1,3-Dichloropropene	8.050	75	81223	11.168	ug/L		94
71) 1,1,2-Trichloroethane	8.237	83	34885	9.881	ug/L		96
72) Chlorodibromomethane	8.440	129	52646	10.083	ug/L		98
73) 1,3-Dichloropropane	8.557	76	74029	10.338	ug/L		100
74) 1,2-Dibromoethane	8.721	107	41189	9.600	ug/L		99
76) 2-Hexanone	9.017	43	20660	9.046	ug/L		94
77) Chlorobenzene	9.376	112	151410	9.987	ug/L		96
78) Ethylbenzene	9.415	91	279398	10.644	ug/L		95
79) 1,1,1,2-Tetrachloroethane	9.454	131	56154	10.089	ug/L		95
80) p/m Xylene	9.610	106	210523	19.919	ug/L		90
81) o Xylene	10.149	106	196807	19.781	ug/L		88
82) Styrene	10.219	104	322641	19.747	ug/L		89
84) Bromoform	10.234	173	35320	9.659	ug/L		99
86) Isopropylbenzene	10.547	105	319174	9.787	ug/L		97
88) Bromobenzene	10.984	156	65201	9.616	ug/L		100
89) n-Propylbenzene	11.038	91	335652	9.856	ug/L		95
91) 1,1,2,2-Tetrachloroethane	11.124	83	46073	9.142	ug/L		100
92) 4-Ethyltoluene	11.171	105	263407	9.936	ug/L		96
93) 2-Chlorotoluene	11.202	91	226386	10.407	ug/L		94
94) 1,3,5-Trimethylbenzene	11.273	105	233425	10.080	ug/L		95
95) 1,2,3-Trichloropropane	11.265	75	42788	9.898	ug/L		96
96) trans-1,4-Dichloro-2-b...	11.319	53	13062	9.113	ug/L	#	81
97) 4-Chlorotoluene	11.390	91	206274	10.442	ug/L		93
98) tert-Butylbenzene	11.616	119	195666	9.570	ug/L		92
101) 1,2,4-Trimethylbenzene	11.694	105	232810	10.380	ug/L		95
102) sec-Butylbenzene	11.811	105	260421	8.914	ug/L		96
103) p-Isopropyltoluene	11.968	119	235597	9.287	ug/L		94
104) 1,3-Dichlorobenzene	12.023	146	128150	9.799	ug/L		97
105) 1,4-Dichlorobenzene	12.121	146	126066	9.791	ug/L		97

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) p-Diethylbenzene	12.343	119	125197	9.685	ug/L	95
107) n-Butylbenzene	12.399	91	203640	10.255	ug/L	96
108) 1,2-Dichlorobenzene	12.545	146	112579	9.684	ug/L	96
109) 1,2,4,5-Tetramethylben...	13.144	119	175818	10.172	ug/L	95
110) 1,2-Dibromo-3-chloropr...	13.332	155	7351	8.297	ug/L	91
112) Hexachlorobutadiene	13.944	225	28044	11.461	ug/L	98
113) 1,2,4-Trichlorobenzene	13.965	180	69221	10.378	ug/L	98
114) Naphthalene	14.265	128	135021	8.730	ug/L	100
115) 1,2,3-Trichlorobenzene	14.432	180	62159	10.162	ug/L	99

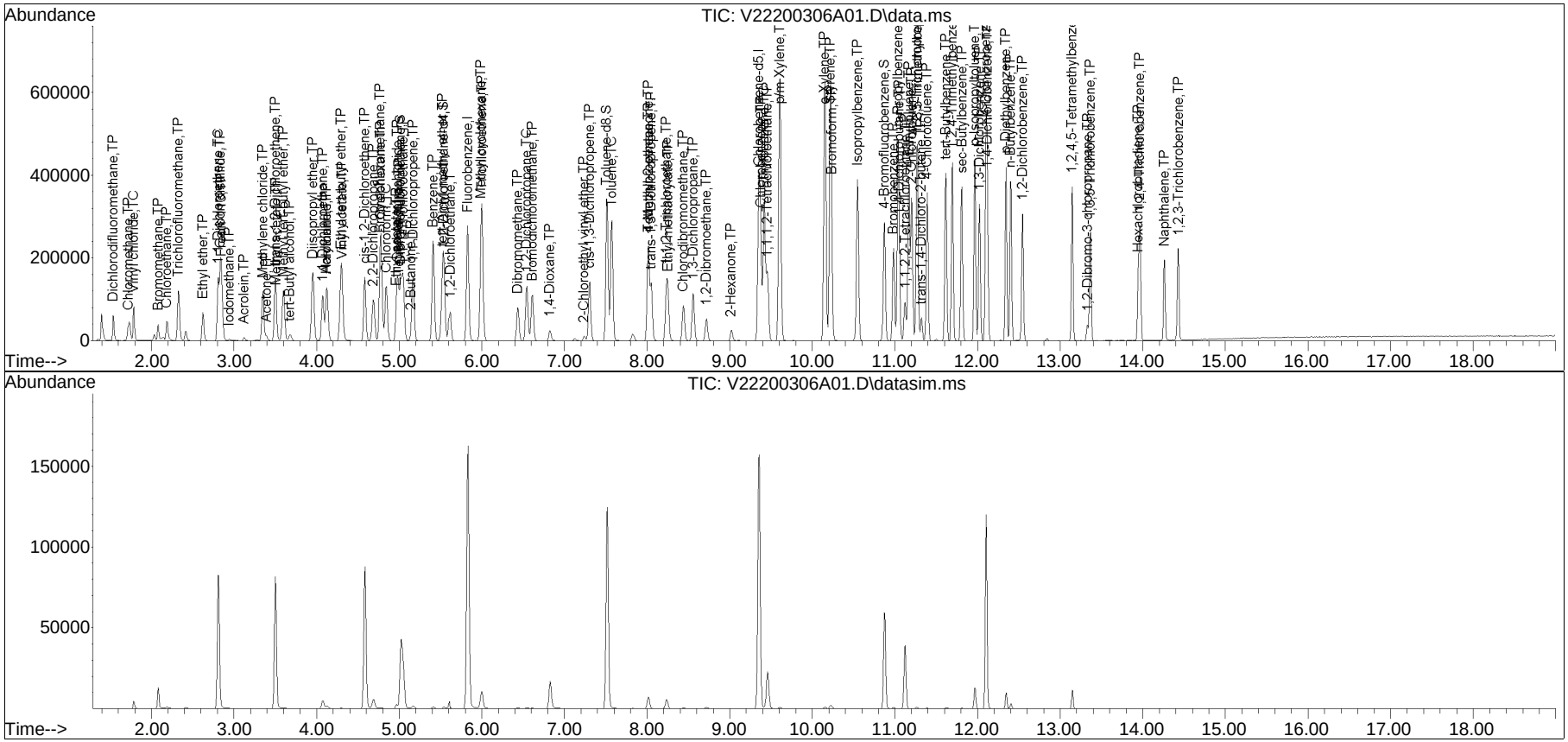
(#) = qualifier out of range (m) = manual integration (+) = signals summed

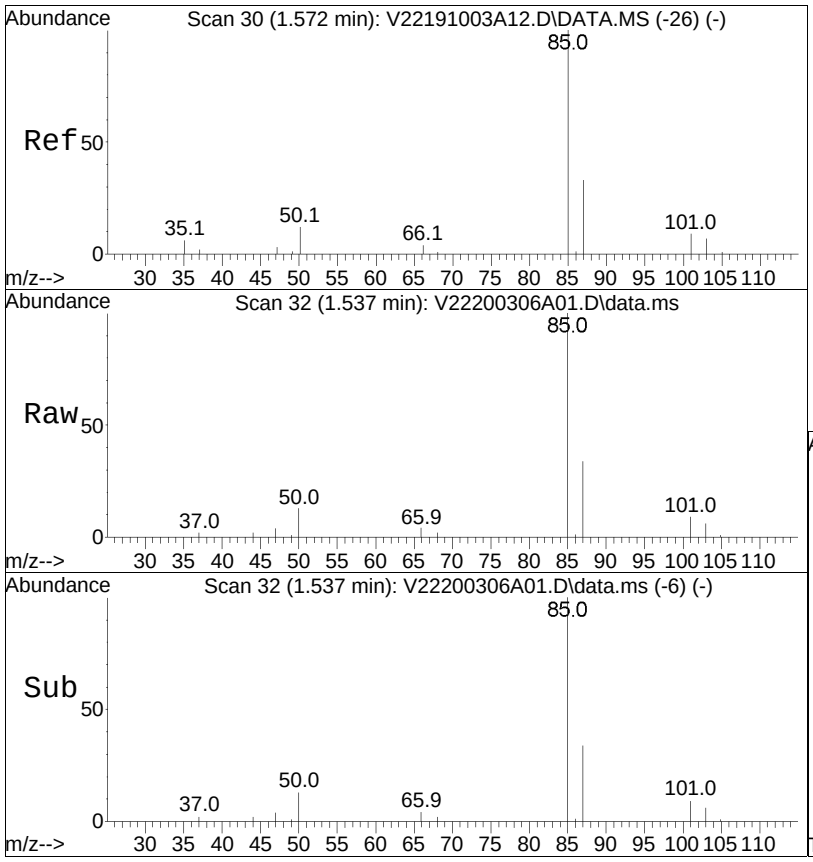
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A01.D
Acq On : 06 Mar 2020 09:46 am
Operator : VOA122:PD
Sample : WG1348135-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 10:15:15 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

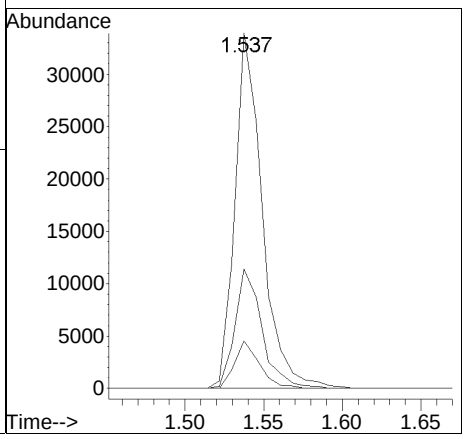


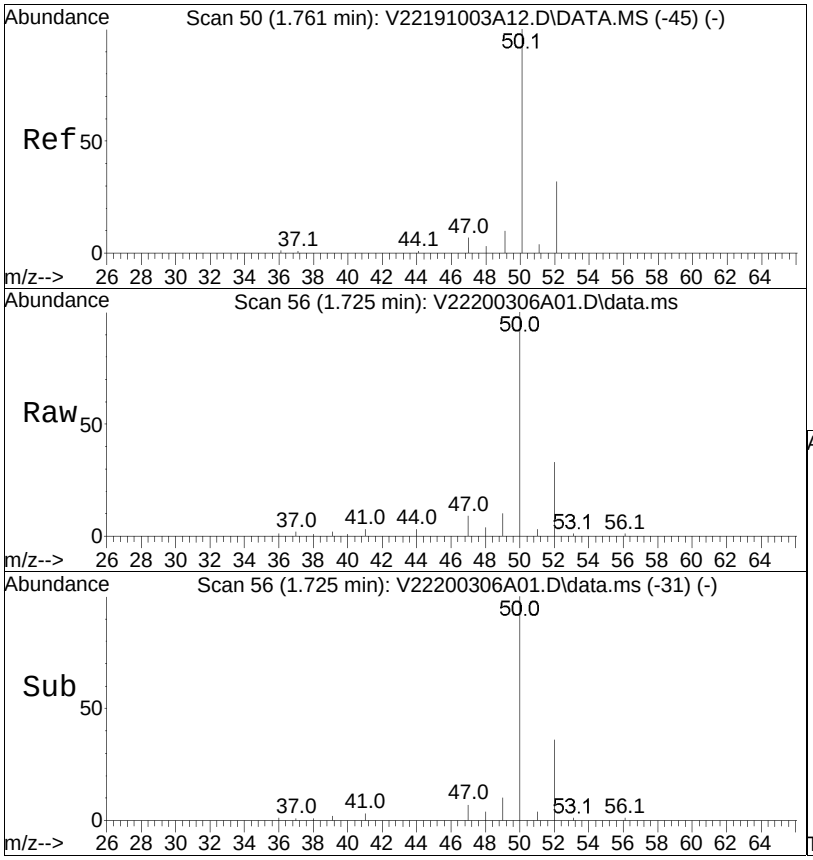


#2
Dichlorodifluoromethane
Concen: 9.40 ug/L
RT: 1.537 min Scan# 32
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 85 Resp: 41146

Ion	Ratio	Lower	Upper
85	100		
87	33.3	20.7	42.9
50	12.2	6.8	14.2

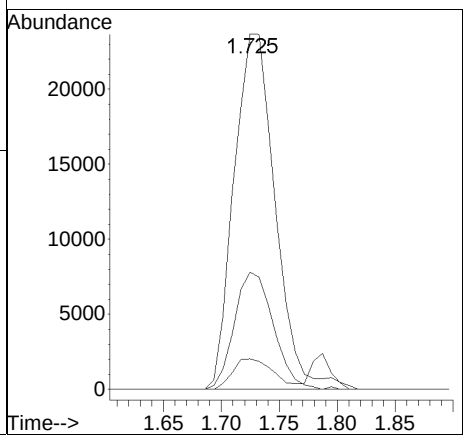


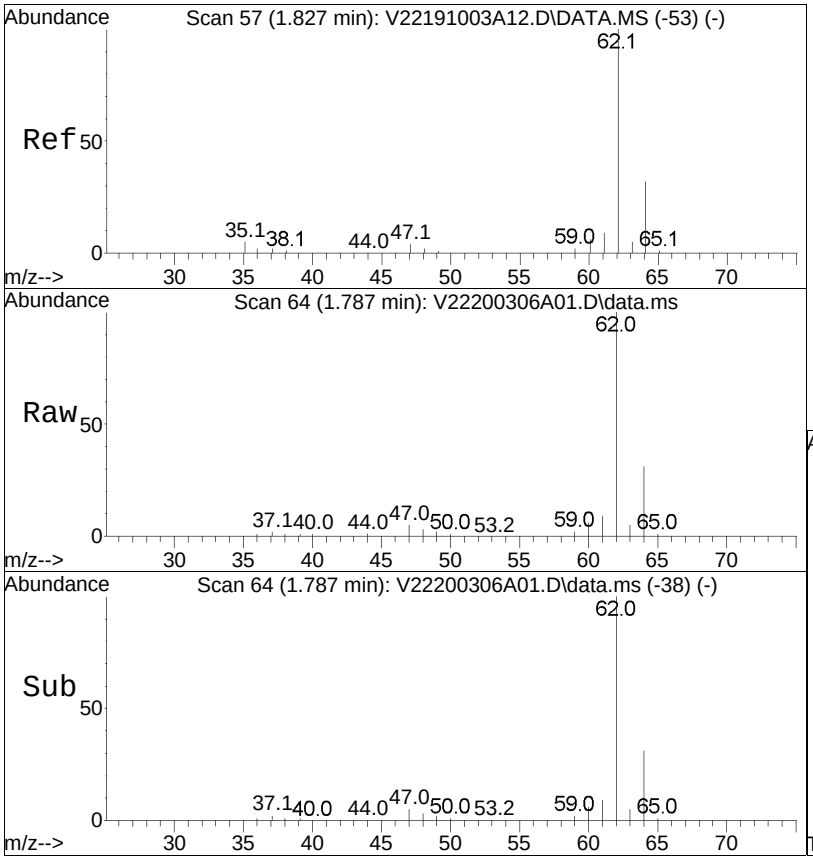


#3
Chloromethane
Concen: 10.16 ug/L
RT: 1.725 min Scan# 56
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 50 Resp: 58706

Ion	Ratio	Lower	Upper
50	100		
52	31.3	12.8	52.8
47	8.5	0.0	30.0

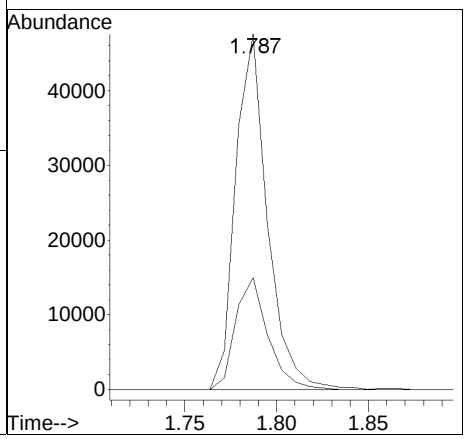


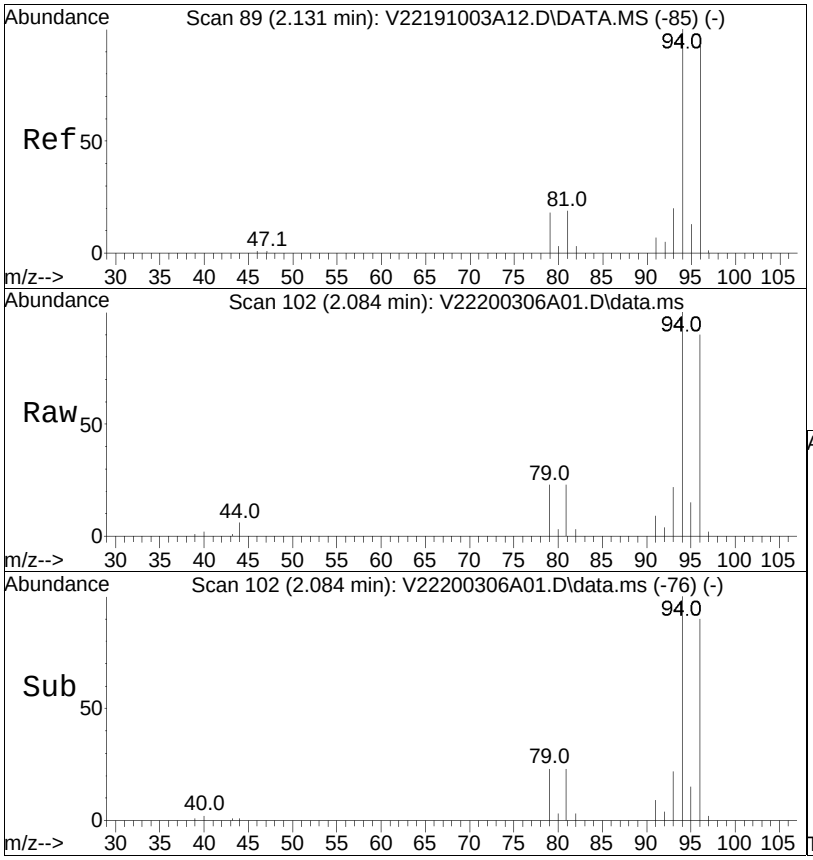


#4
Vinyl chloride
Concen: 8.85 ug/L
RT: 1.787 min Scan# 64
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 62 Resp: 57424

Ion	Ratio	Lower	Upper
62	100		
64	32.0	12.0	52.0

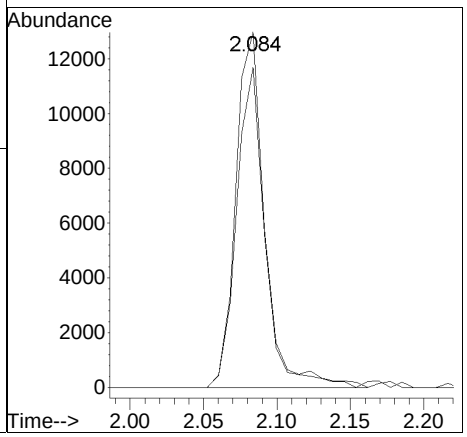


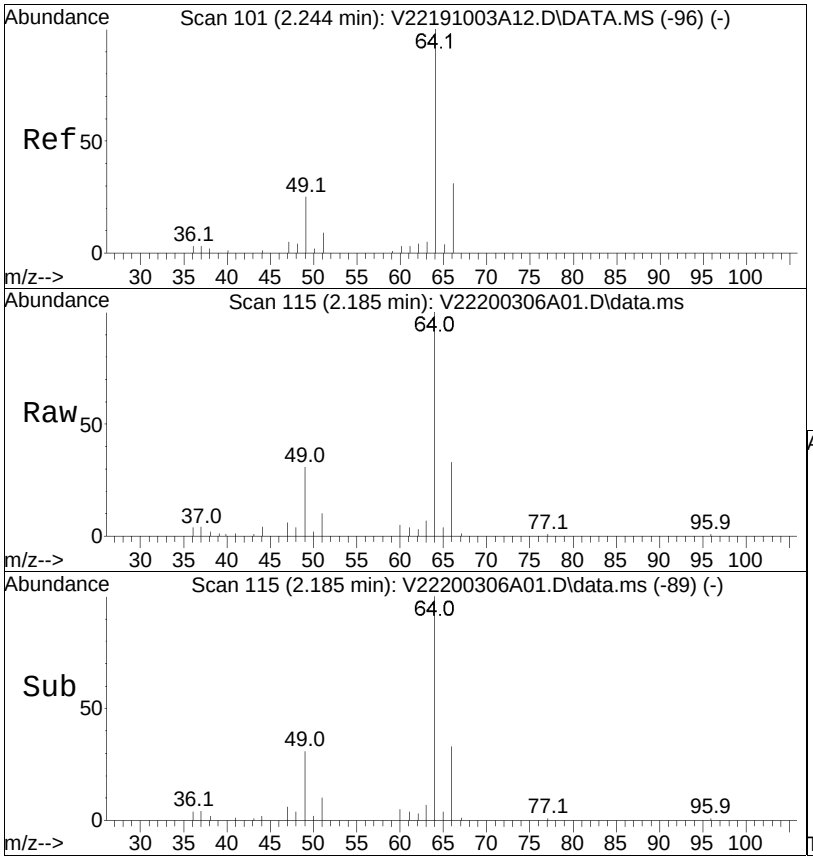


#5
Bromomethane
Concen: 3.07 ug/L
RT: 2.084 min Scan# 102
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 94 Resp: 17858

Ion	Ratio	Lower	Upper
94	100		
96	88.2	72.8	112.8

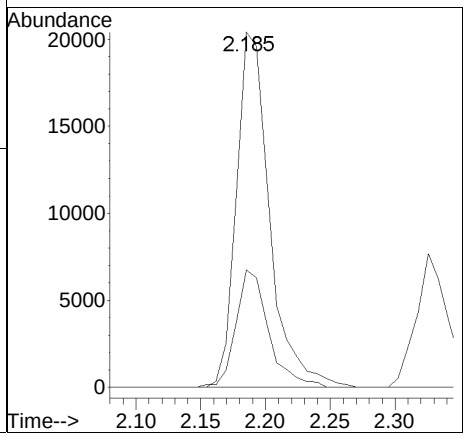


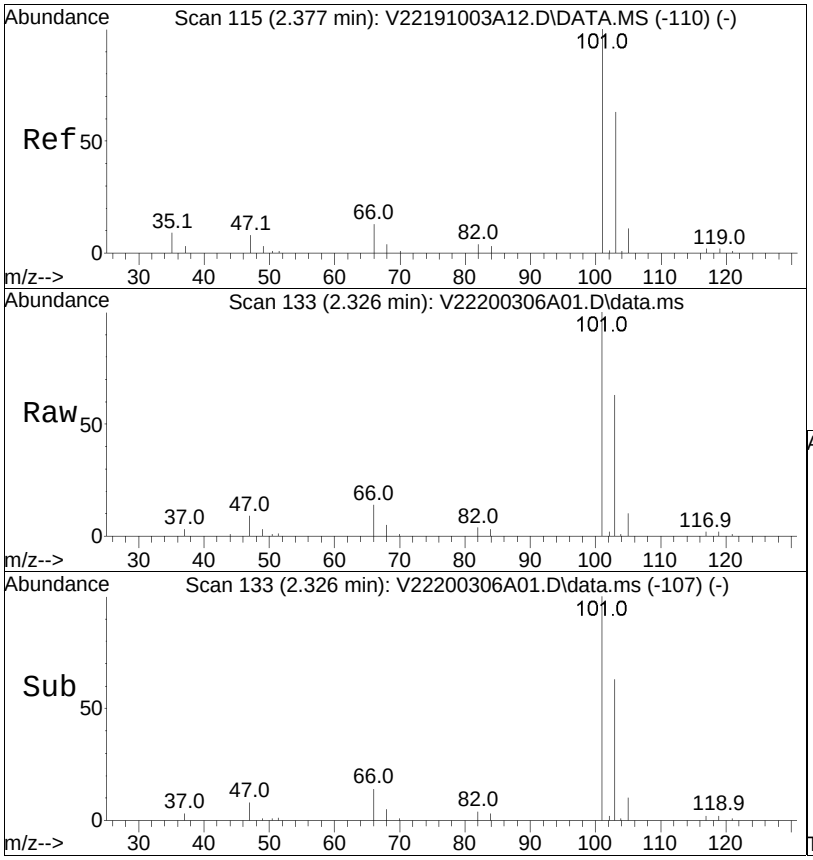


#6
Chloroethane
Concen: 7.78 ug/L
RT: 2.185 min Scan# 115
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 64 Resp: 36432

Ion	Ratio	Lower	Upper
64	100		
66	32.7	12.2	52.2

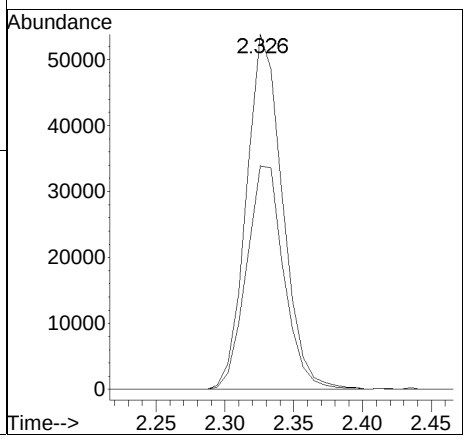


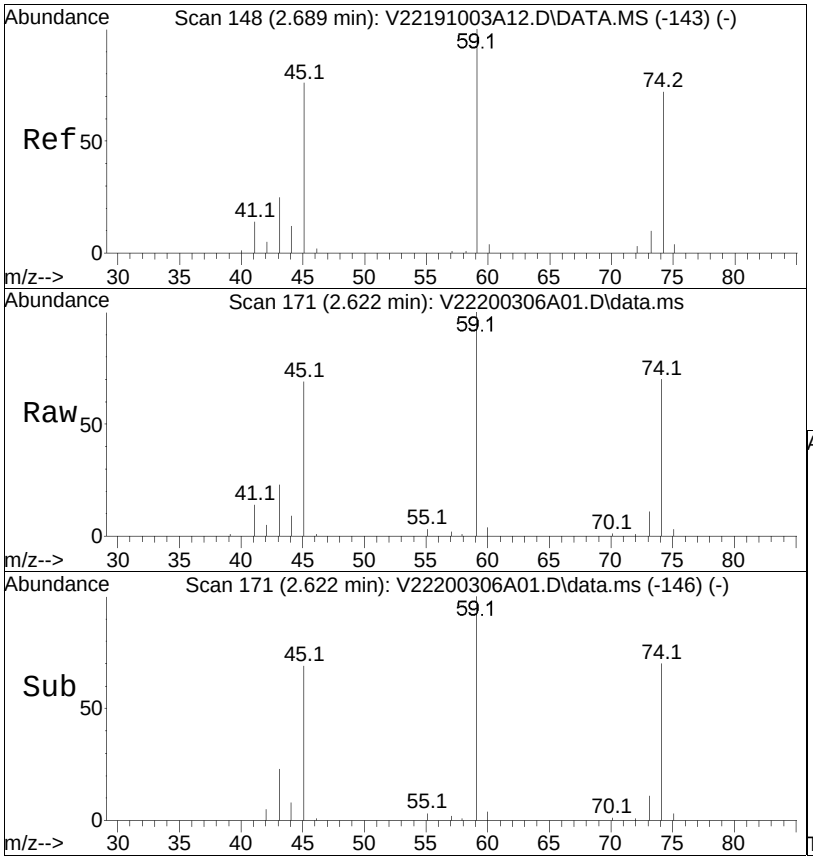


#7
Trichlorofluoromethane
Concen: 11.12 ug/L
RT: 2.326 min Scan# 133
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:101 Resp: 98391

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.6	77.4

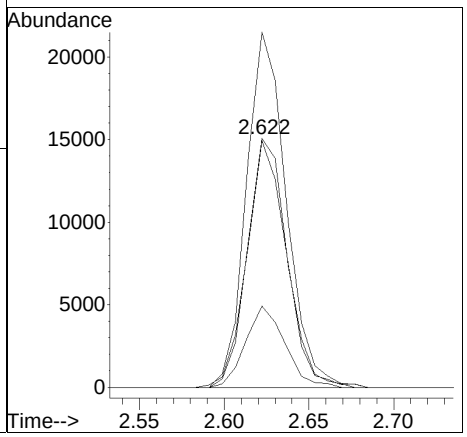


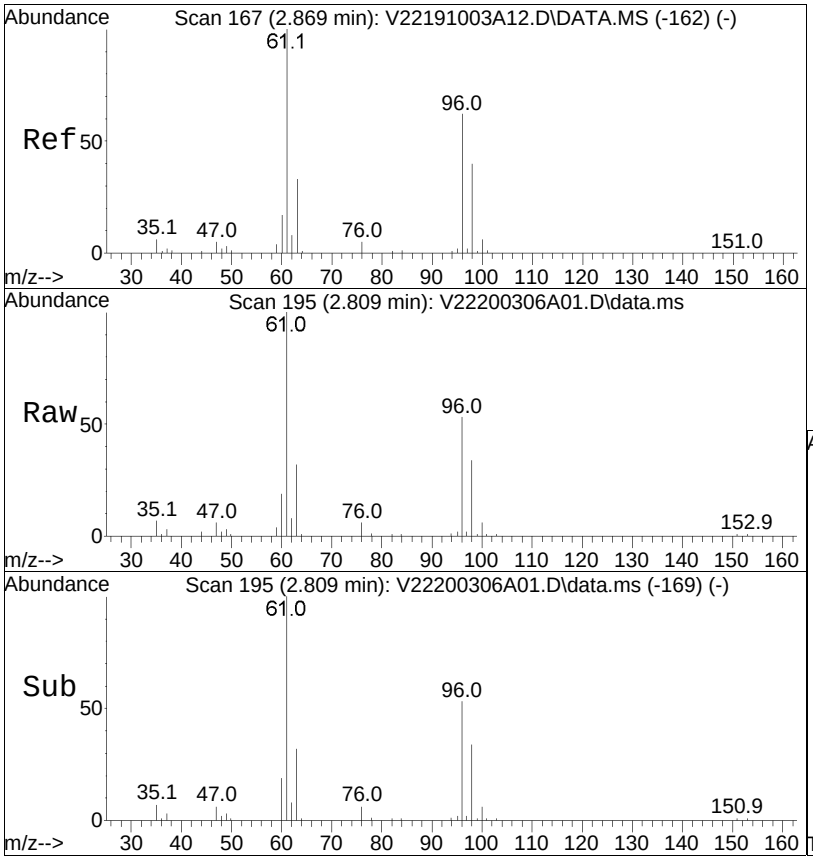


#8
Ethyl ether
Concen: 9.45 ug/L
RT: 2.622 min Scan# 171
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 74 Resp: 24720

Ion	Ratio	Lower	Upper
74	100		
59	142.8	2122.4	4408.0#
45	98.1	1435.1	2980.5#
43	32.1	407.9	847.3#

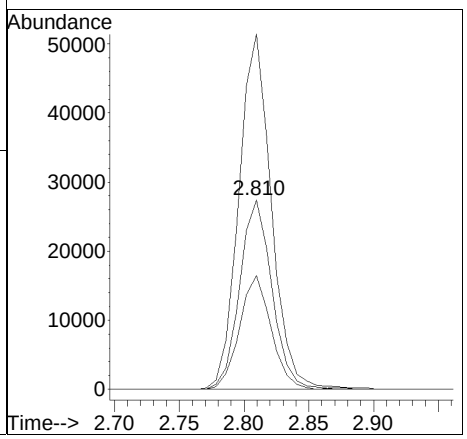


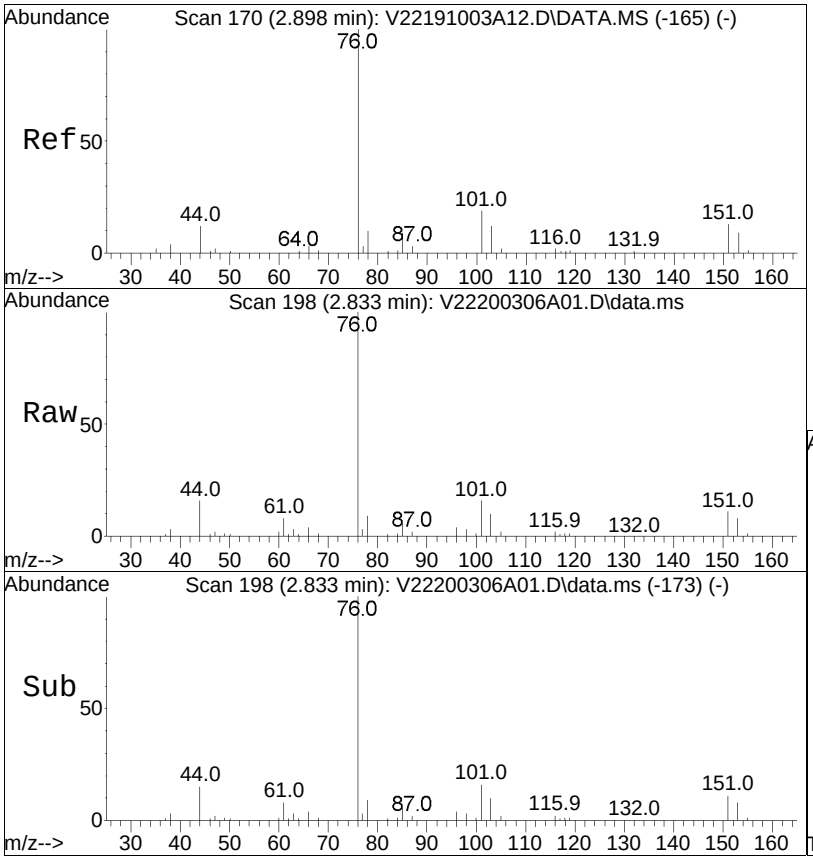


#10
1,1-Dichloroethene
Concen: 9.56 ug/L
RT: 2.809 min Scan# 195
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 96 Resp: 47674

Ion	Ratio	Lower	Upper
96	100		
61	188.9	117.0	175.4#
63	59.0	37.8	56.6#

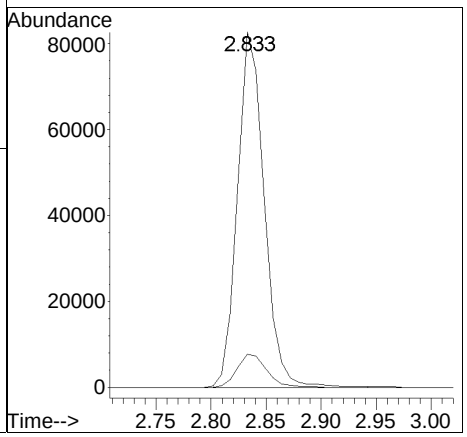


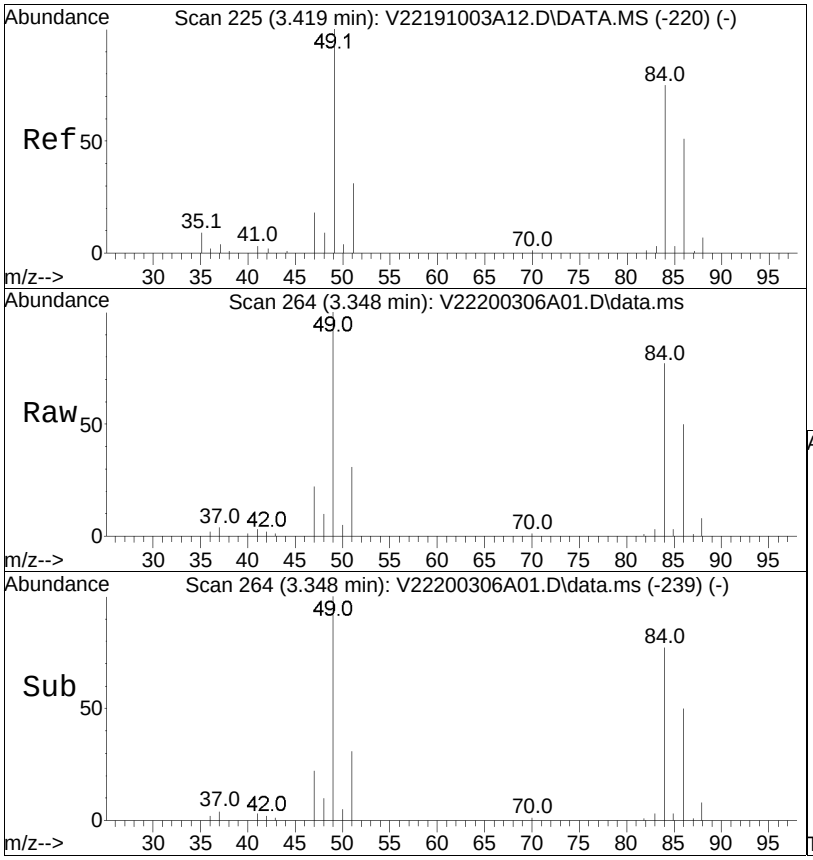


#11
Carbon disulfide
Concen: 10.76 ug/L
RT: 2.833 min Scan# 198
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 76 Resp: 140151

Ion	Ratio	Lower	Upper
76	100		
78	10.4	6.4	13.4

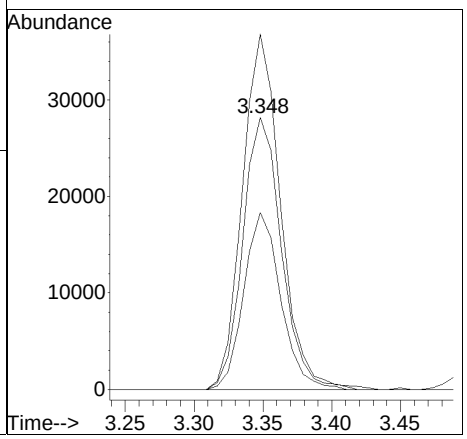


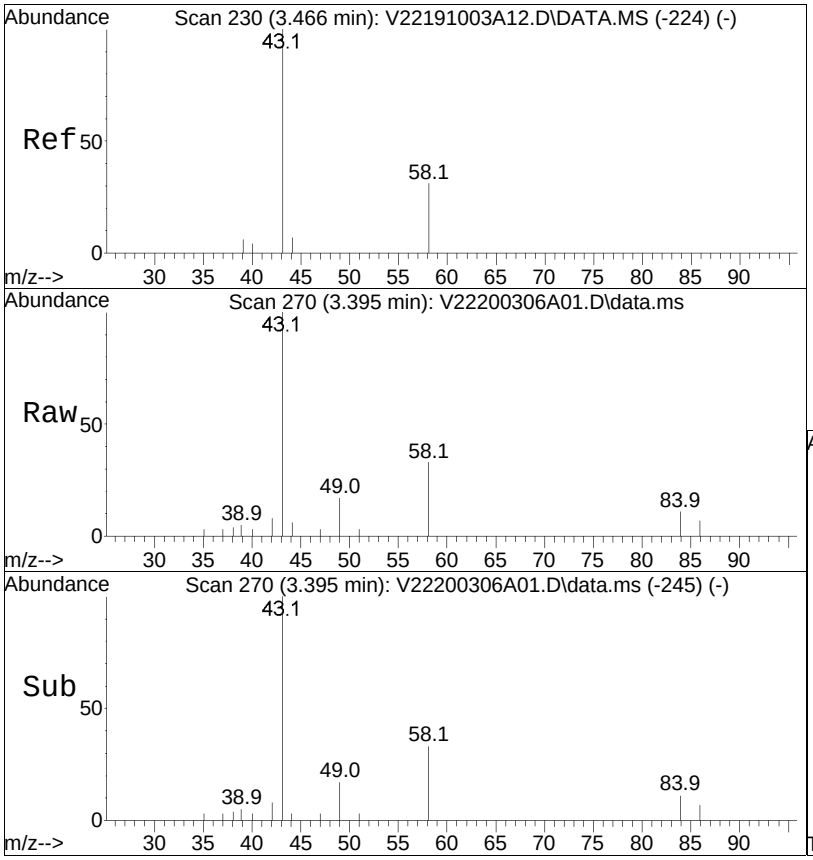


#15
Methylene chloride
Concen: 9.71 ug/L
RT: 3.348 min Scan# 264
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 84 Resp: 54885

Ion	Ratio	Lower	Upper
84	100		
86	62.4	41.5	86.3
49	129.4	68.8	143.0

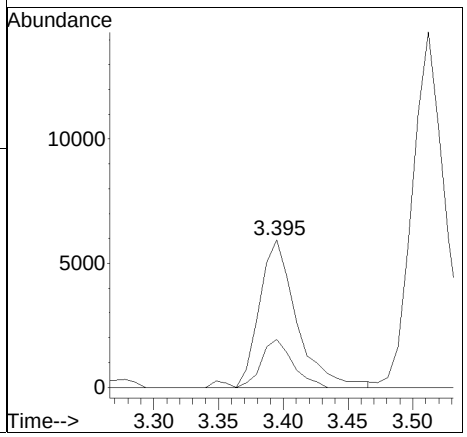


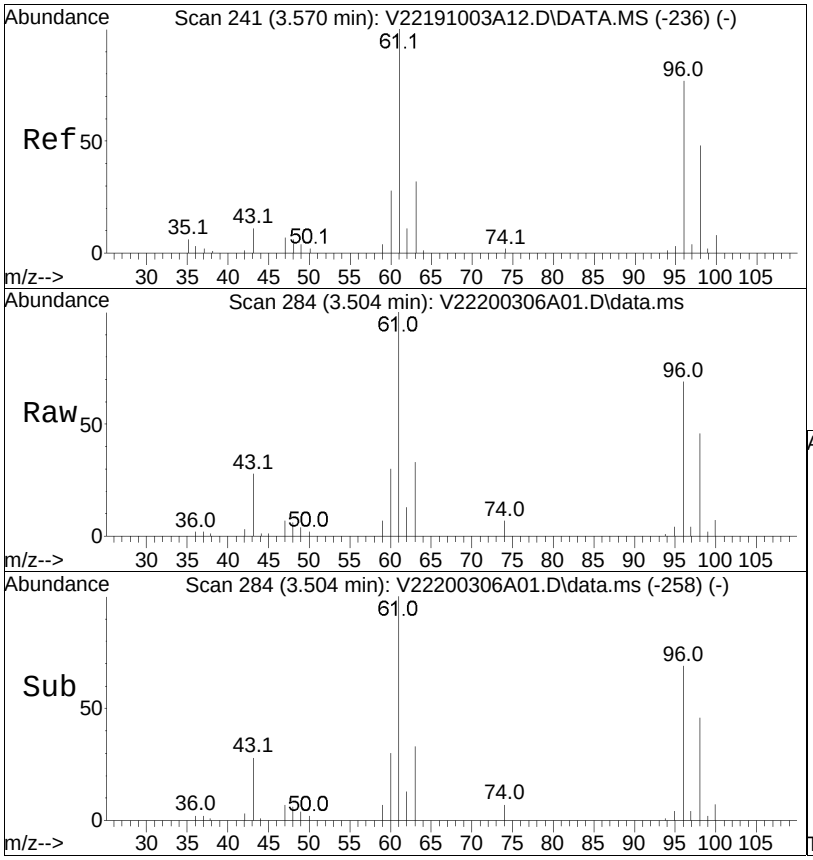


#17
Acetone
Concen: 8.31 ug/L
RT: 3.395 min Scan# 270
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 43 Resp: 12040

Ion	Ratio	Lower	Upper
43	100		
58	27.0	23.1	34.7

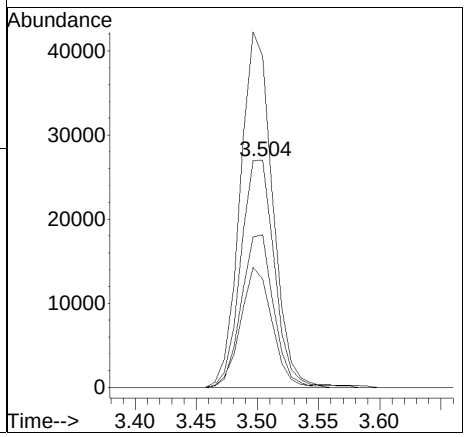


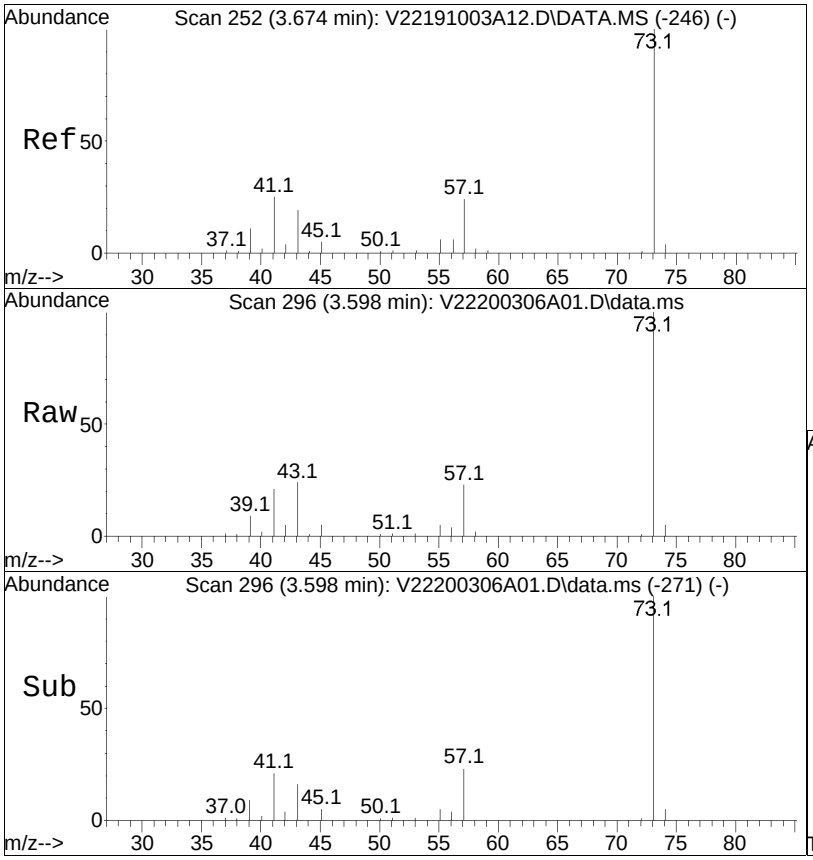


#18
trans-1,2-Dichloroethene
Concen: 9.63 ug/L
RT: 3.504 min Scan# 284
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 96 Resp: 51596

Ion	Ratio	Lower	Upper
96	100		
61	151.1	81.6	169.6
98	64.3	41.8	86.8
63	49.5	26.3	54.7

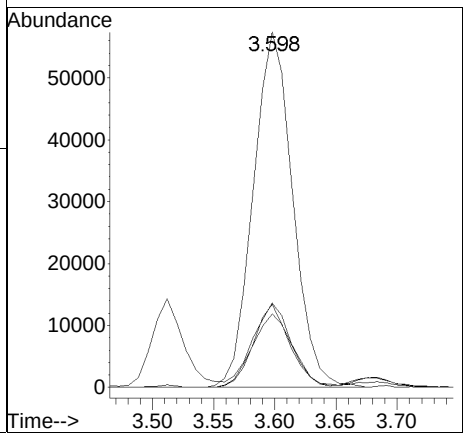


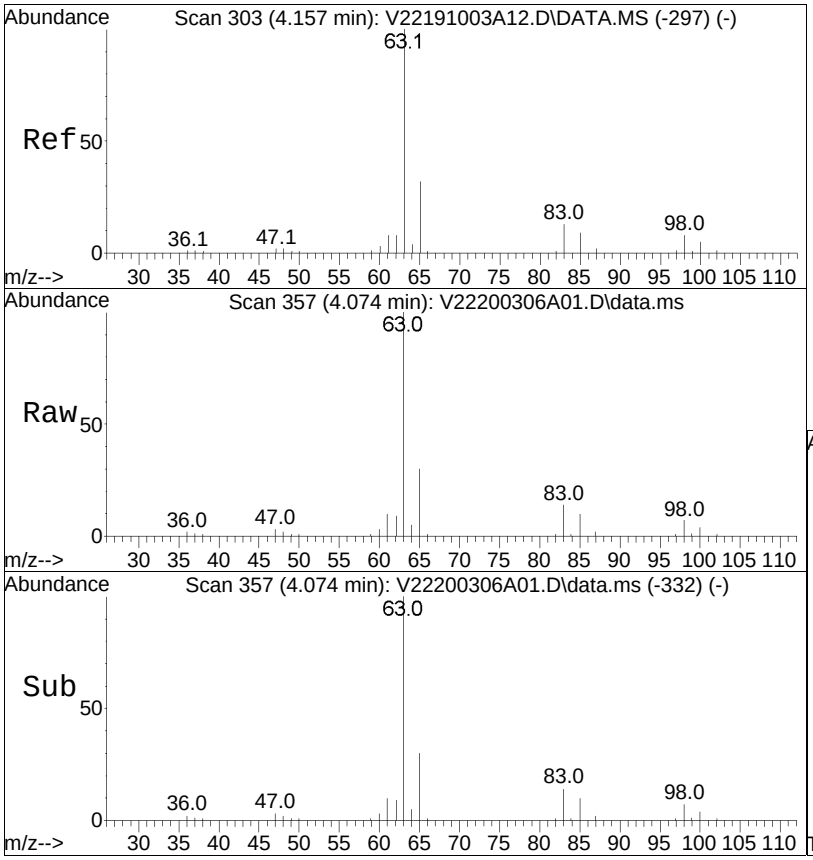


#21
Methyl tert-butyl ether
Concen: 10.89 ug/L
RT: 3.598 min Scan# 296
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 73 Resp: 129055

Ion	Ratio	Lower	Upper
73	100		
57	21.9	13.6	28.2
43	23.1	12.7	26.5
41	20.6	11.4	23.8

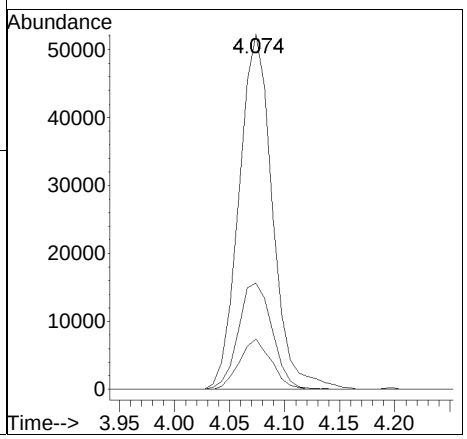


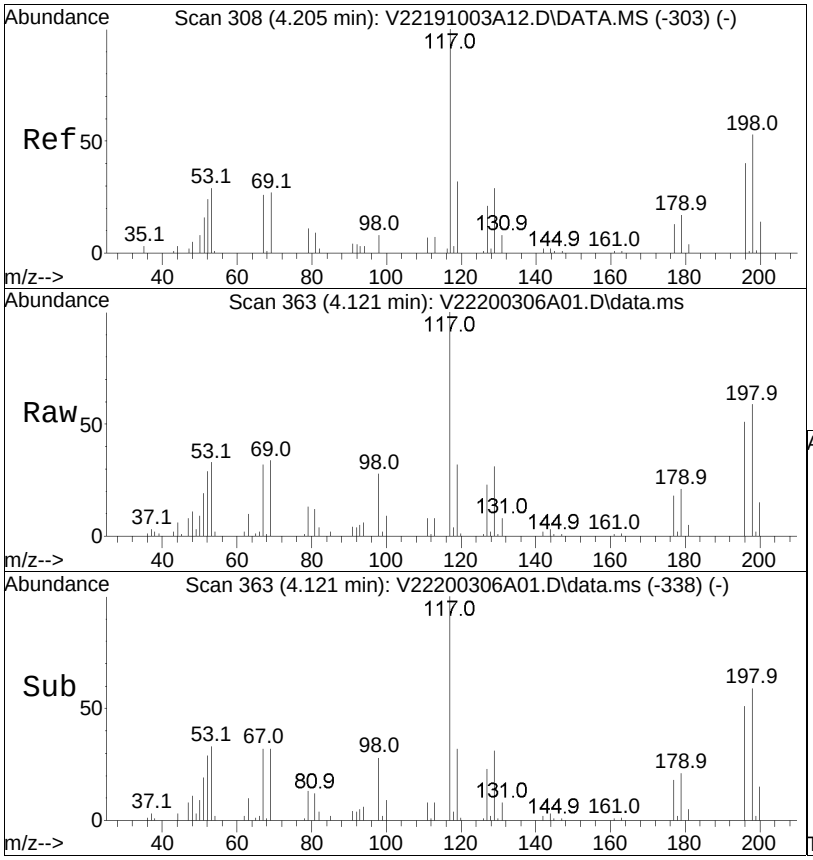


#25
1,1-Dichloroethane
Concen: 10.28 ug/L
RT: 4.074 min Scan# 357
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 63 Resp: 110704

Ion	Ratio	Lower	Upper
63	100		
65	30.3	11.9	51.9
83	13.6	0.0	34.2

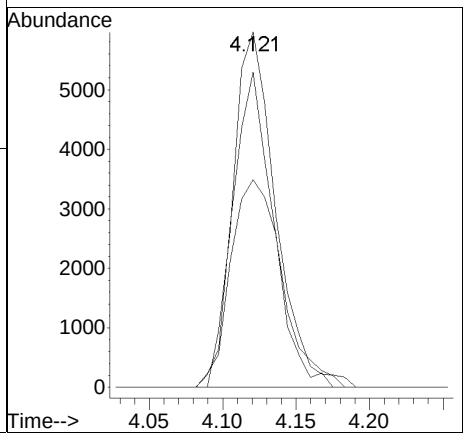


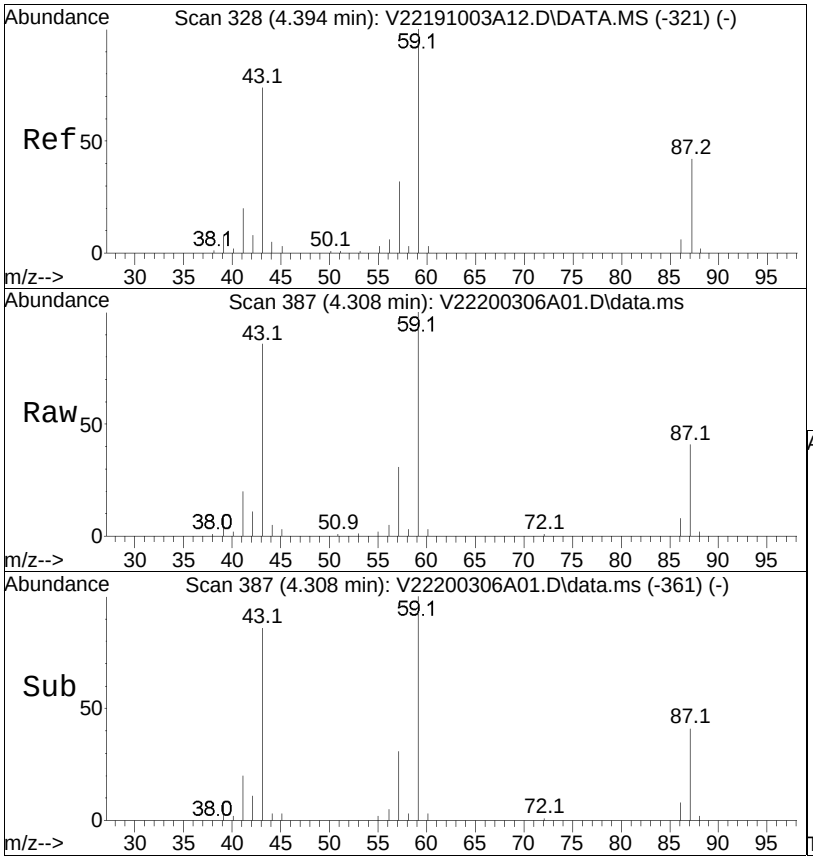


#27
Acrylonitrile
Concen: 9.07 ug/L
RT: 4.121 min Scan# 363
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 53 Resp: 12183

Ion	Ratio	Lower	Upper
53	100		
52	86.4	63.8	95.8
51	66.6	50.2	75.4

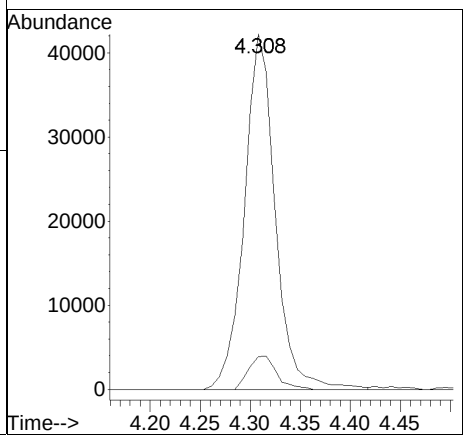


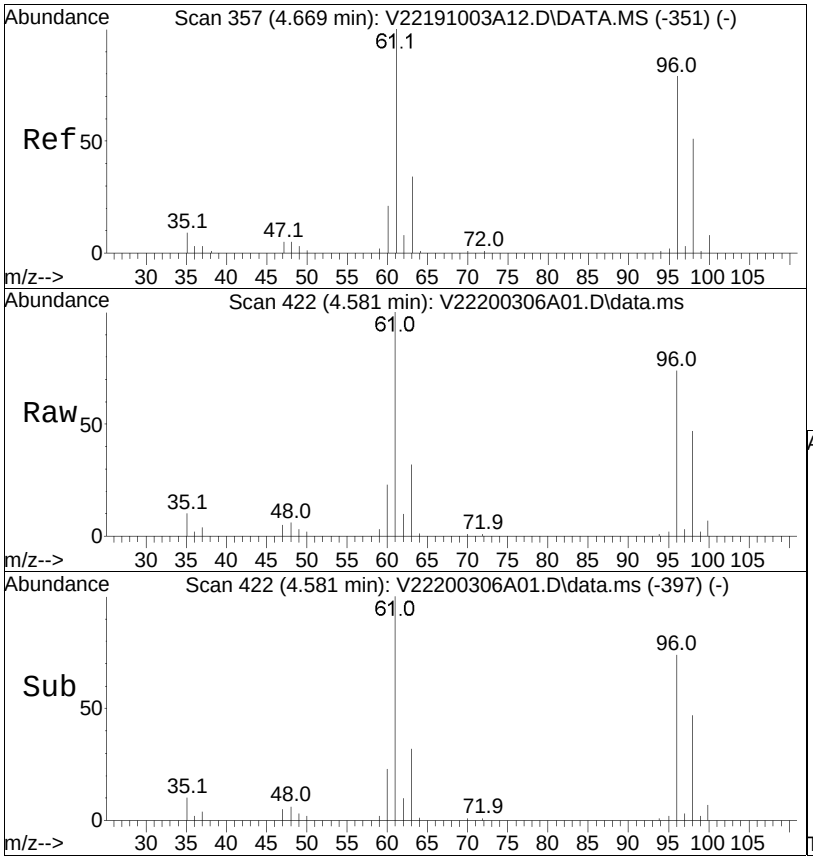


#29
Vinyl acetate
Concen: 9.87 ug/L
RT: 4.308 min Scan# 387
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 43 Resp: 90716

Ion	Ratio	Lower	Upper
43	100		
86	8.5	8.9	13.3#

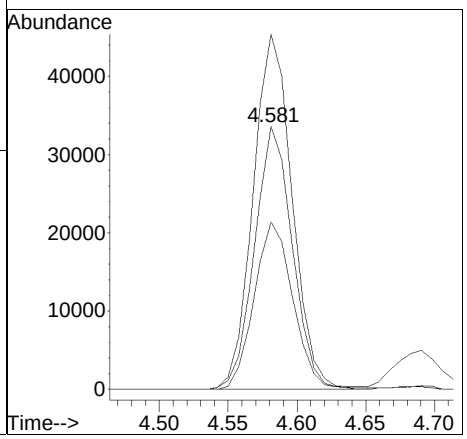


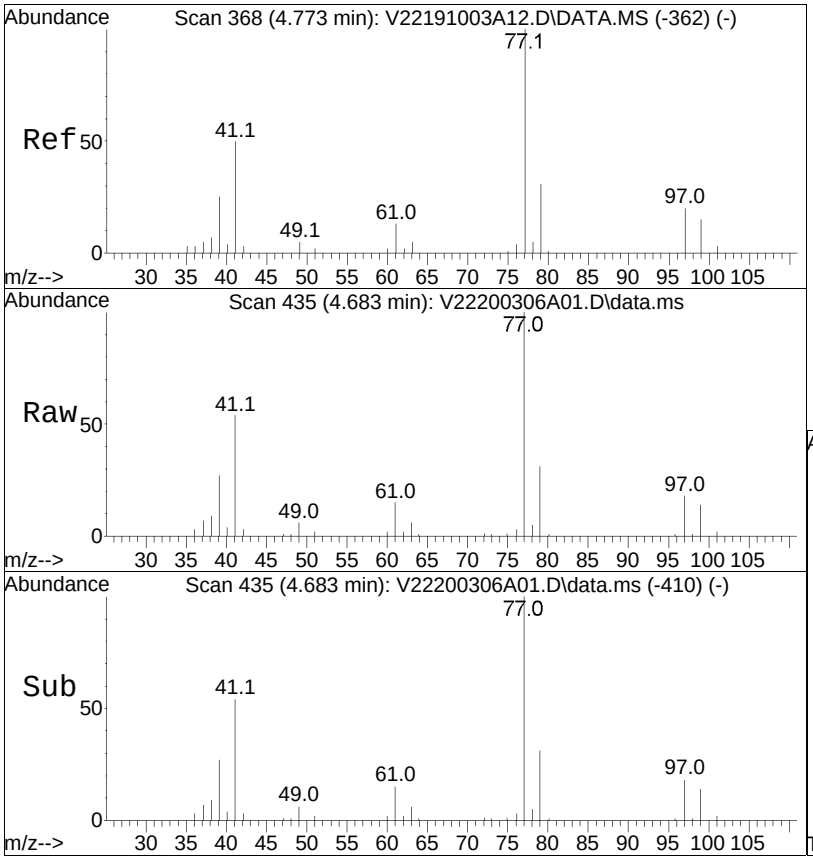


#30
cis-1,2-Dichloroethene
Concen: 9.70 ug/L
RT: 4.581 min Scan# 422
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 96 Resp: 64237

Ion	Ratio	Lower	Upper
96	100		
61	139.2	90.3	135.5#
98	64.9	50.8	76.2

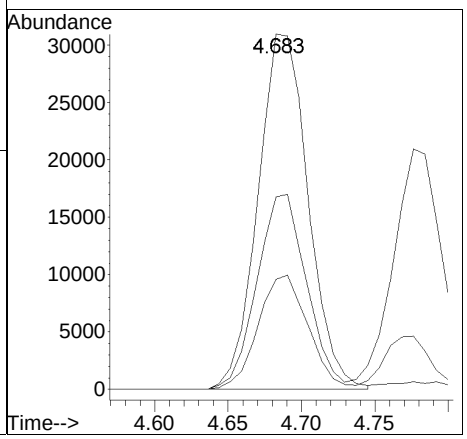


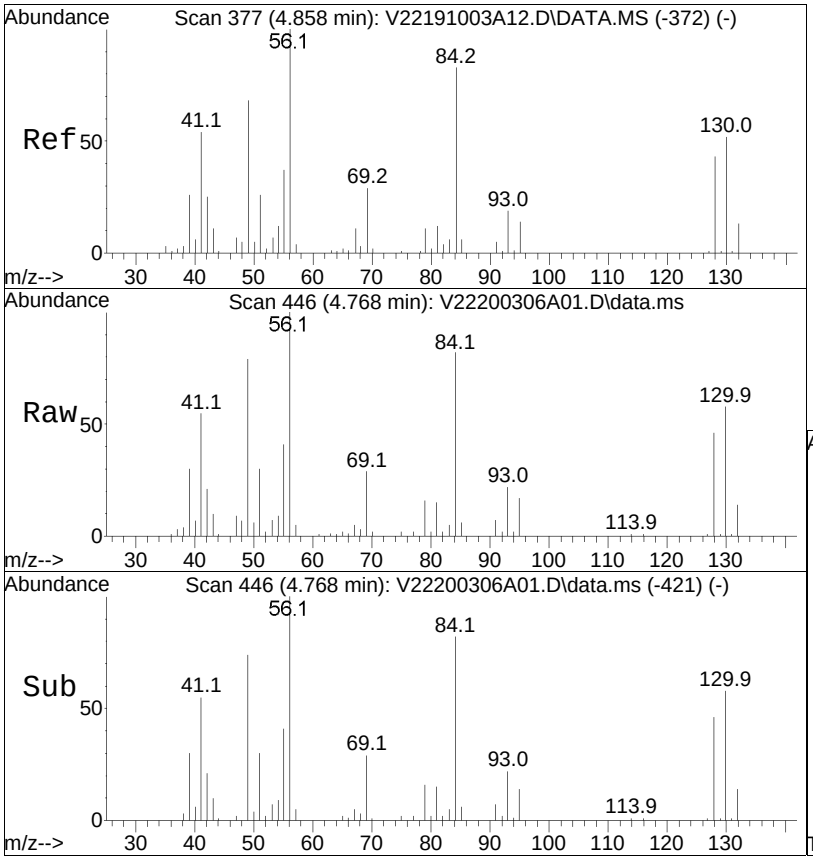


#31
2,2-Dichloropropane
Concen: 11.84 ug/L
RT: 4.683 min Scan# 435
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 77 Resp: 73669

Ion	Ratio	Lower	Upper
77	100		
41	54.2	32.3	67.1
79	32.1	21.1	43.7

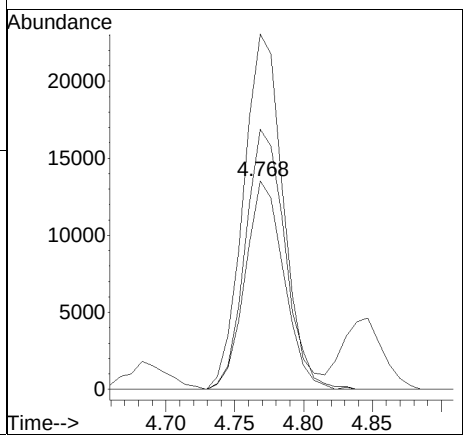


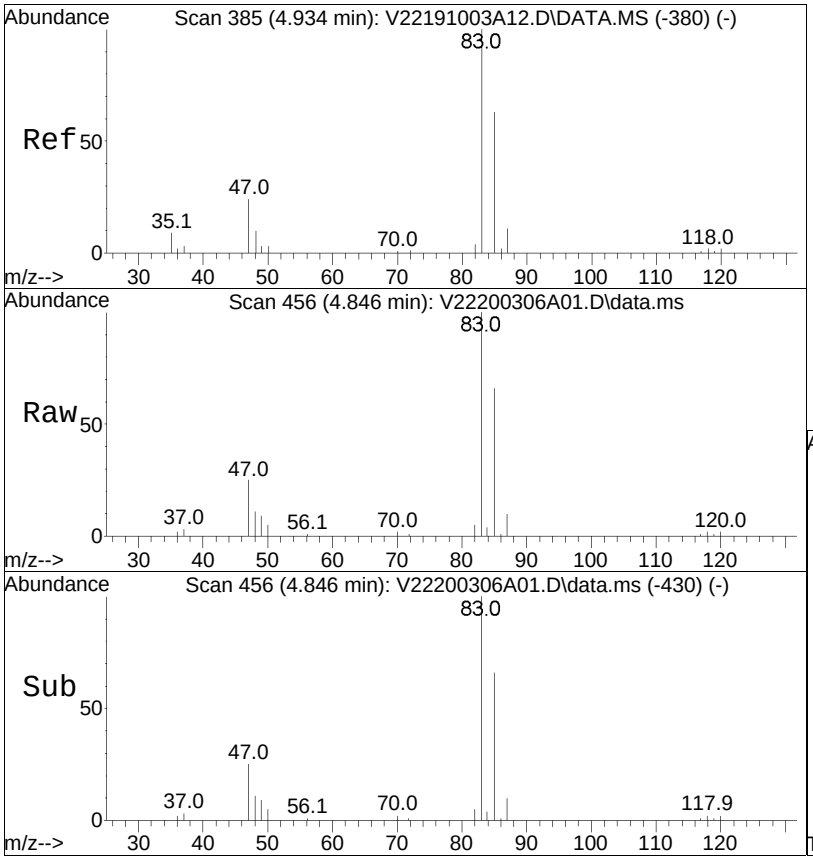


#32
Bromochloromethane
Concen: 9.69 ug/L
RT: 4.768 min Scan# 446
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:128 Resp: 26588

Ion	Ratio	Lower	Upper
128	100		
49	174.9	104.4	156.6#
130	127.6	103.9	155.9

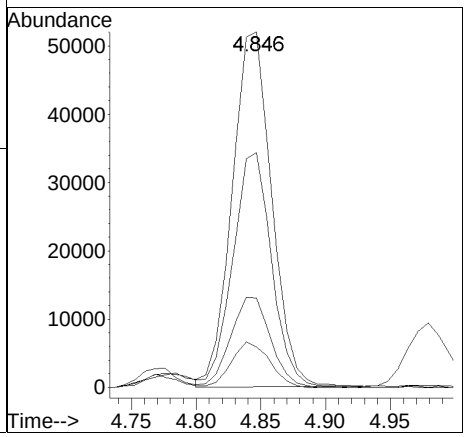


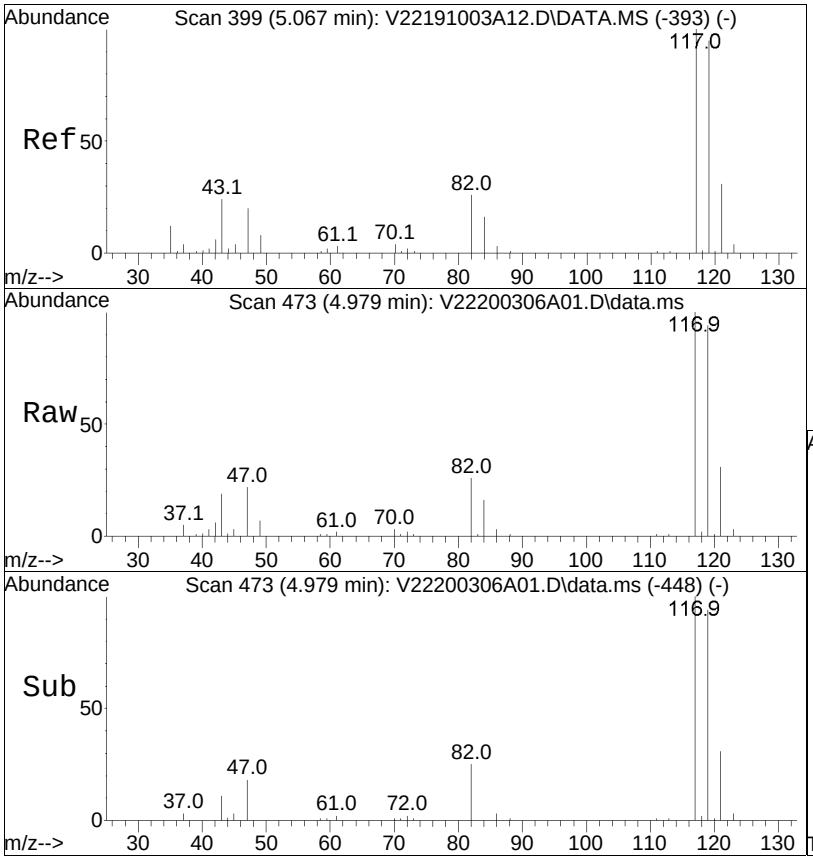


#34
Chloroform
Concen: 10.43 ug/L
RT: 4.846 min Scan# 456
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 83 Resp: 110295

Ion	Ratio	Lower	Upper
83	100		
85	65.2	42.4	88.2
47	25.7	14.0	29.0
48	12.3	6.9	14.3

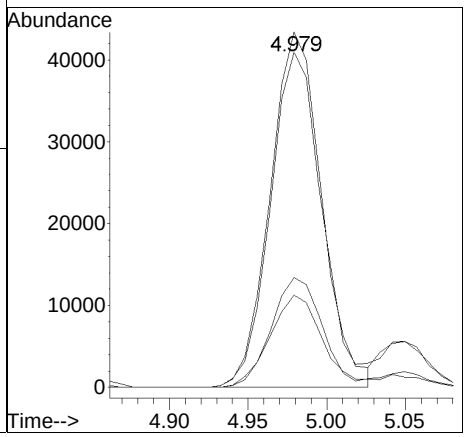


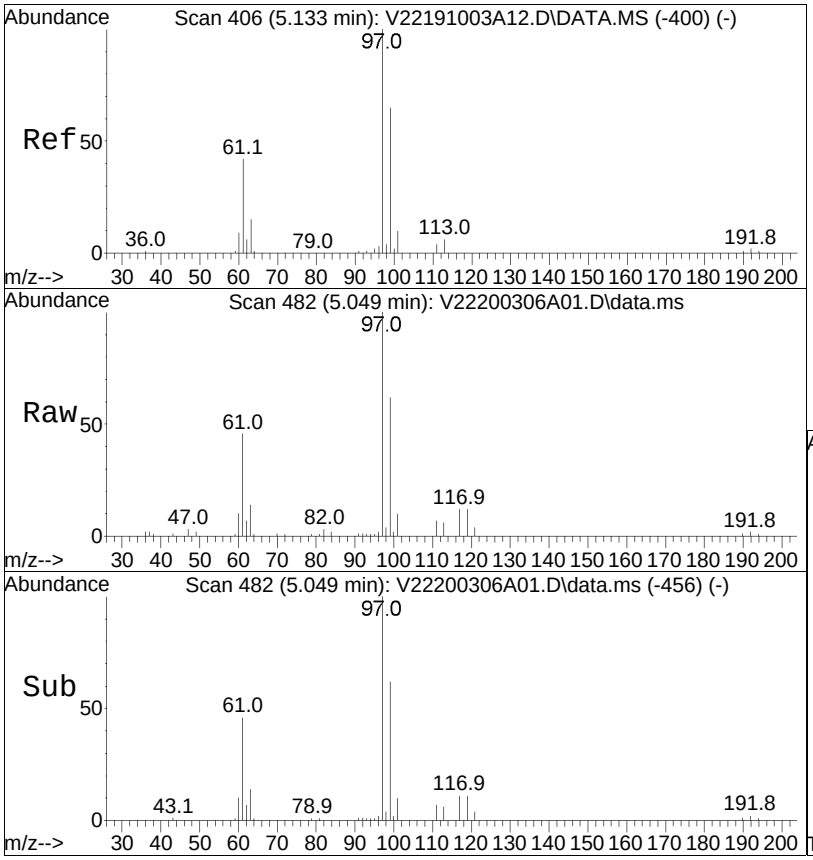


#36
Carbon tetrachloride
Concen: 10.96 ug/L
RT: 4.979 min Scan# 473
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:117 Resp: 98707

Ion	Ratio	Lower	Upper
117	100		
119	94.9	62.1	129.1
121	30.5	20.3	42.3
82	26.9	15.4	32.0

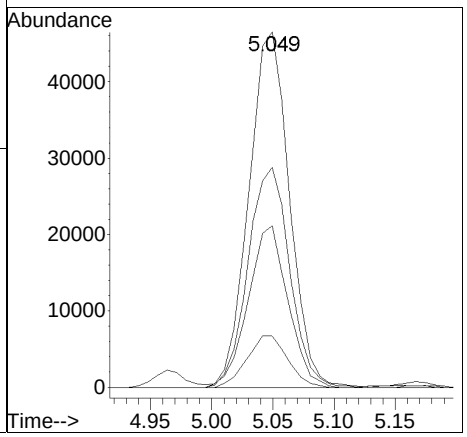


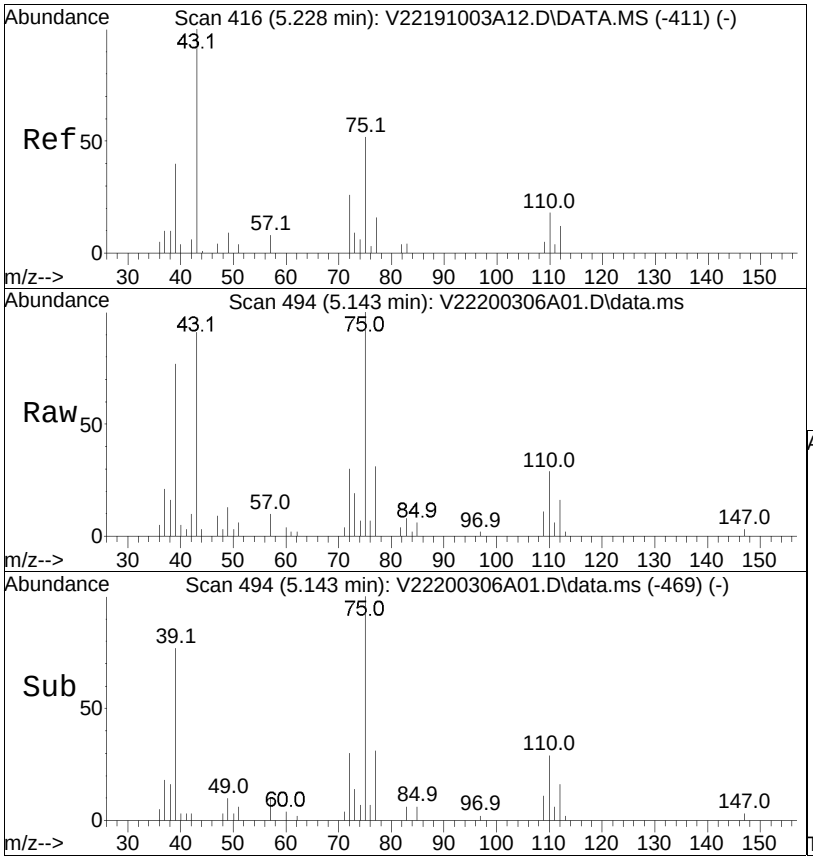


#39
1,1,1-Trichloroethane
Concen: 11.08 ug/L
RT: 5.049 min Scan# 482
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 97 Resp: 107380

Ion	Ratio	Lower	Upper
97	100		
99	63.5	42.4	88.0
61	44.5	26.0	54.0
63	14.6	8.3	17.3

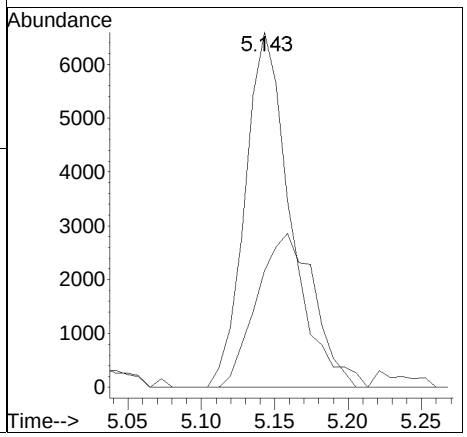


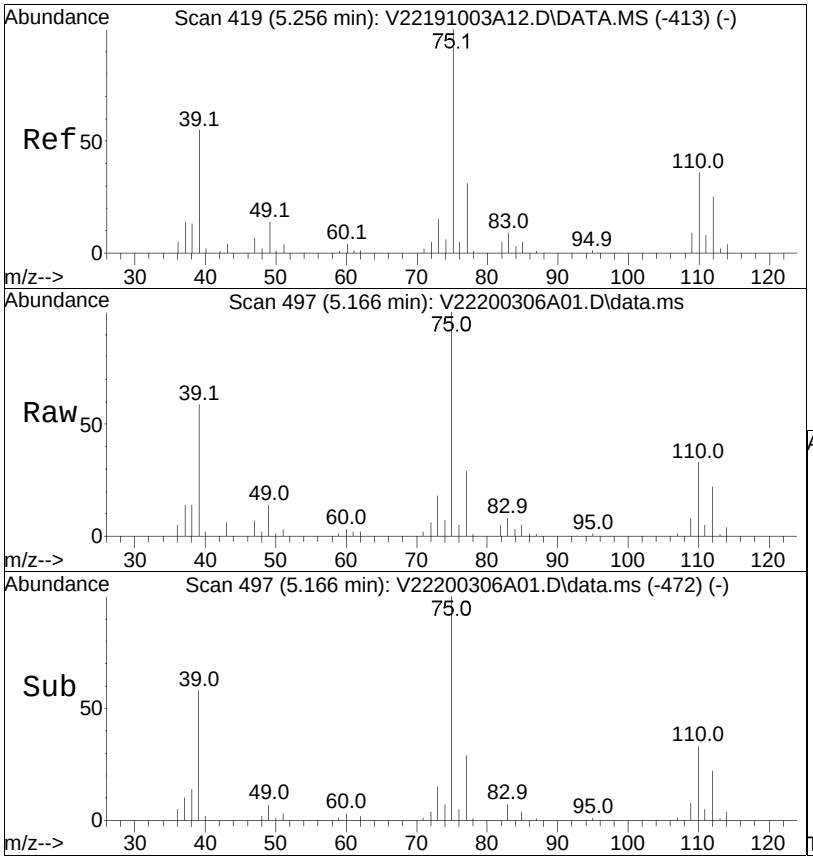


#41
2-Butanone
Concen: 7.82 ug/L
RT: 5.143 min Scan# 494
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 43 Resp: 14205

Ion	Ratio	Lower	Upper
43	100		
72	54.7	45.8	68.8

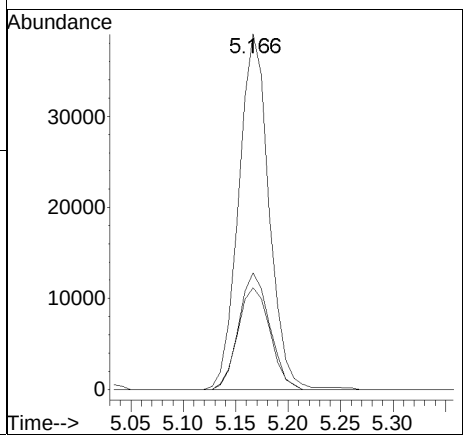


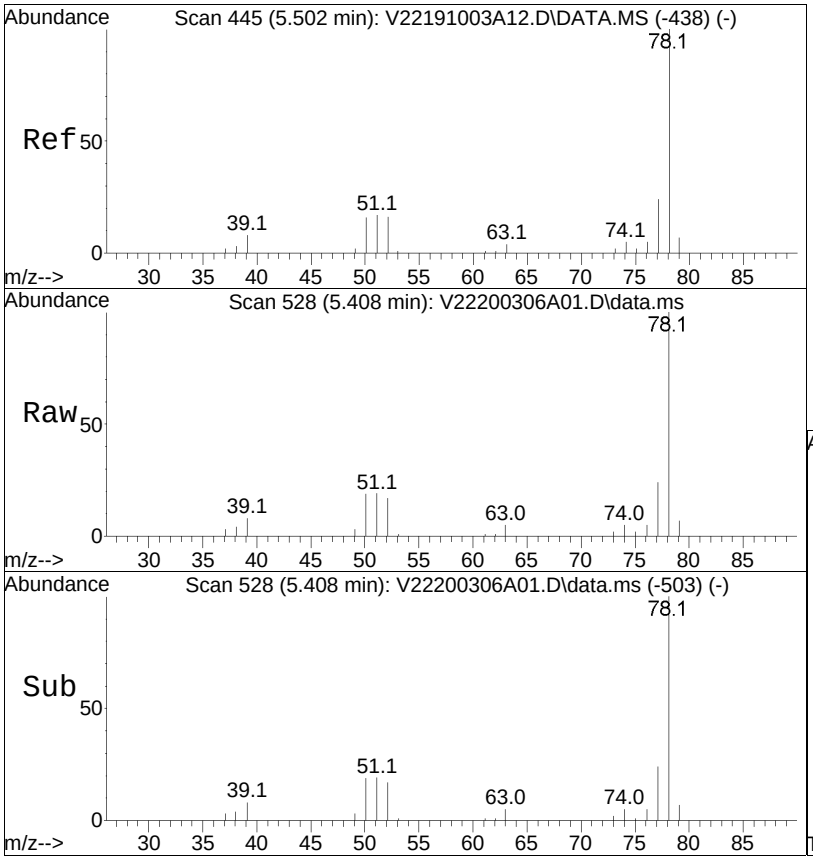


#42
1,1-Dichloropropene
Concen: 9.69 ug/L
RT: 5.166 min Scan# 497
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 75 Resp: 78596

Ion	Ratio	Lower	Upper
75	100		
110	33.2	25.4	52.8
77	30.4	20.3	42.1

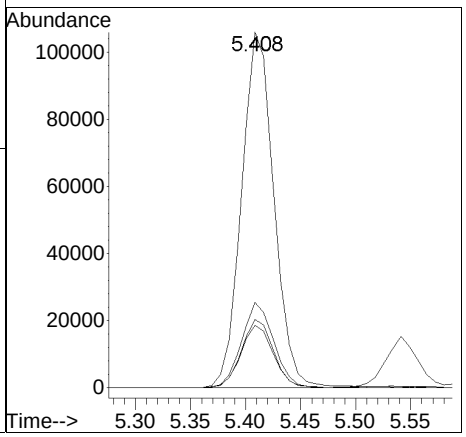


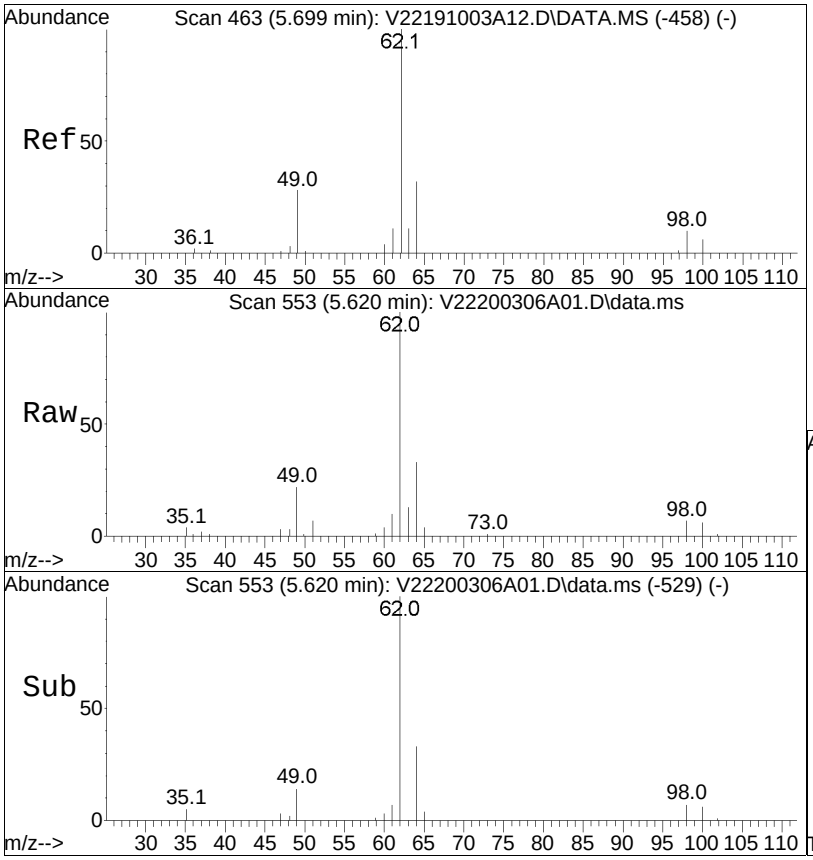


#44
Benzene
Concen: 9.57 ug/L
RT: 5.408 min Scan# 528
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 78 Resp: 216135

Ion	Ratio	Lower	Upper
78	100		
77	23.5	15.4	32.0
51	18.8	9.8	20.4
52	17.4	9.2	19.2

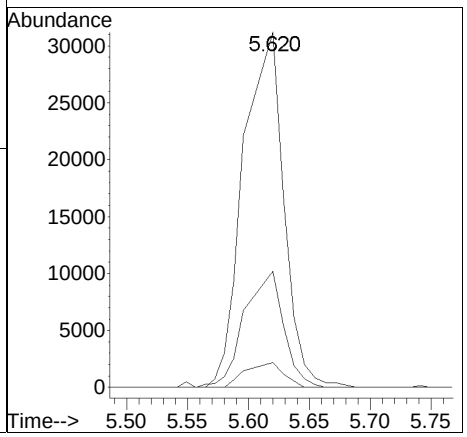


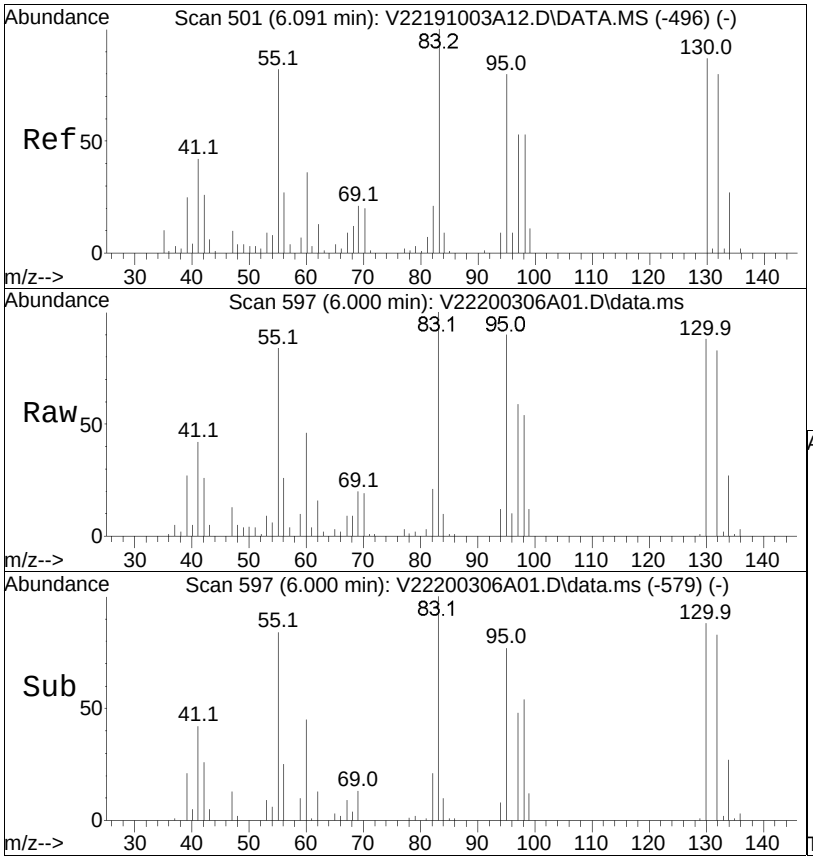


#47
1,2-Dichloroethane
Concen: 9.21 ug/L
RT: 5.620 min Scan# 553
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 62 Resp: 52622

Ion	Ratio	Lower	Upper
62	100		
64	32.3	12.3	52.3
98	7.1	0.0	30.3

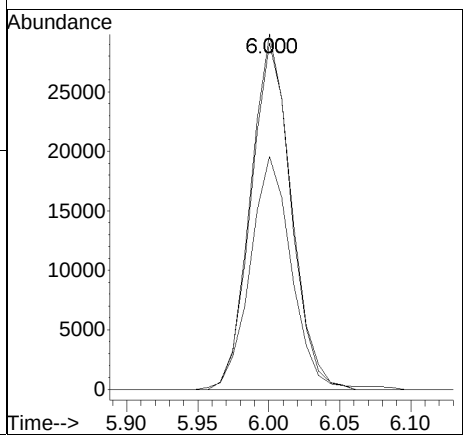


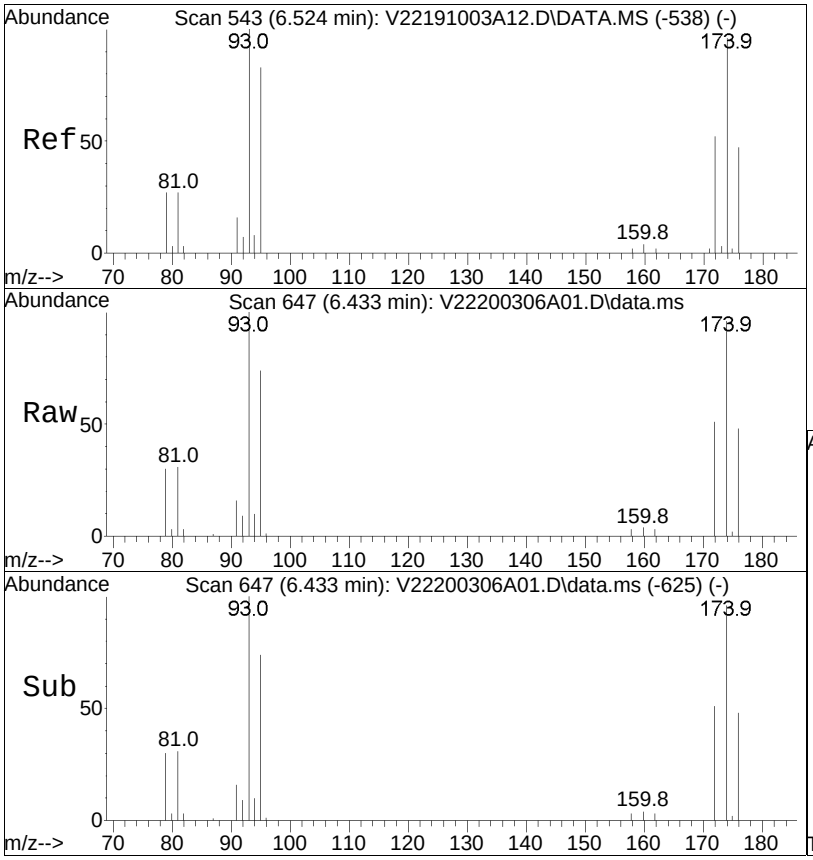


#51
Trichloroethene
Concen: 9.14 ug/L
RT: 6.000 min Scan# 597
Delta R.T. -0.009 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 95 Resp: 58388

Ion	Ratio	Lower	Upper
95	100		
97	67.2	55.0	82.4
130	99.9	89.2	133.8

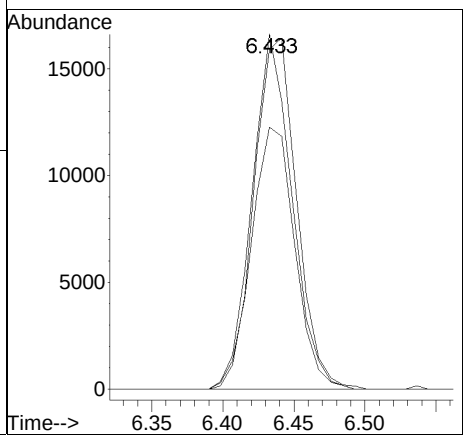


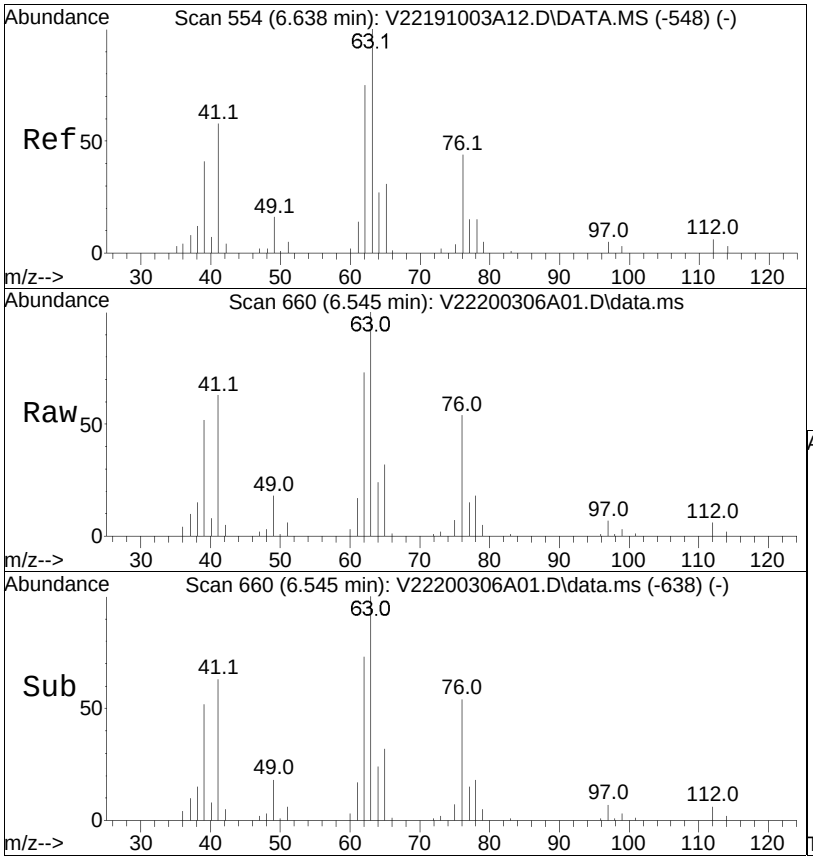


#53
Dibromomethane
Concen: 9.53 ug/L
RT: 6.433 min Scan# 647
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 93 Resp: 32560

Ion	Ratio	Lower	Upper
93	100		
95	80.6	68.0	102.0
174	105.6	106.1	159.1#

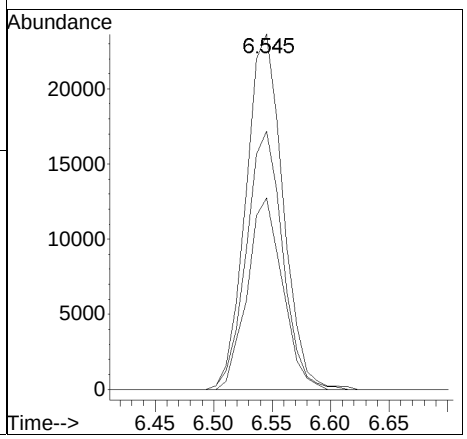


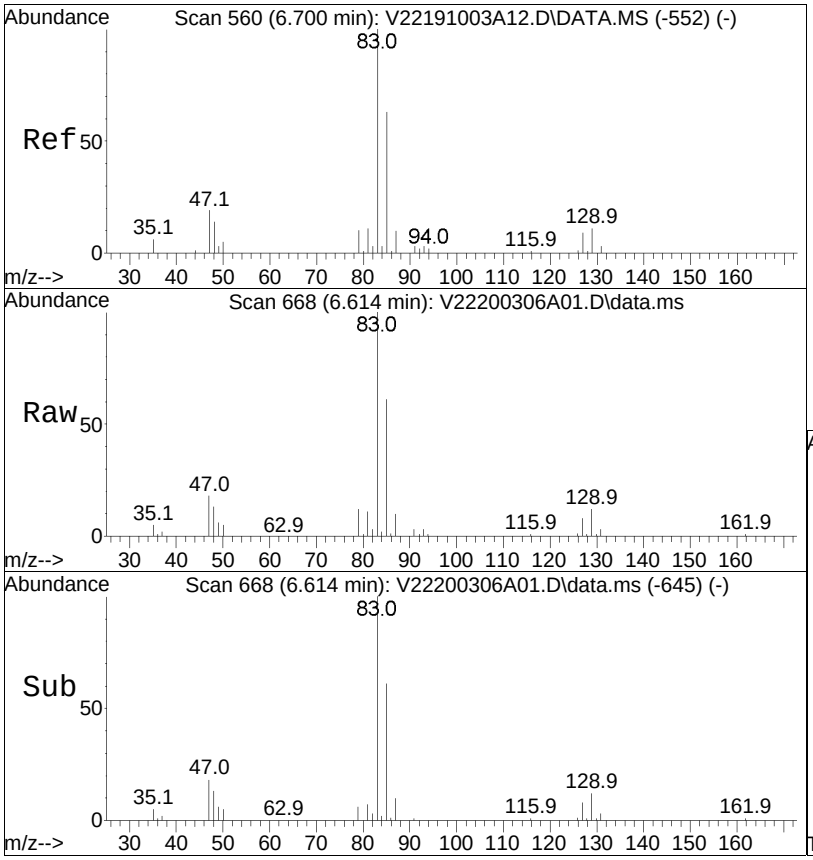


#54
1,2-Dichloropropane
Concen: 8.64 ug/L
RT: 6.545 min Scan# 660
Delta R.T. -0.009 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 63 Resp: 52177

Ion	Ratio	Lower	Upper
63	100		
62	71.2	56.9	85.3
76	51.4	35.8	53.8

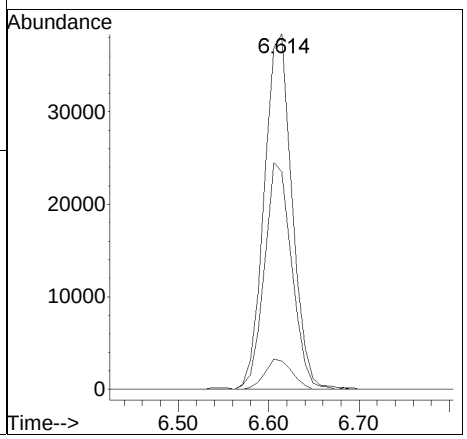


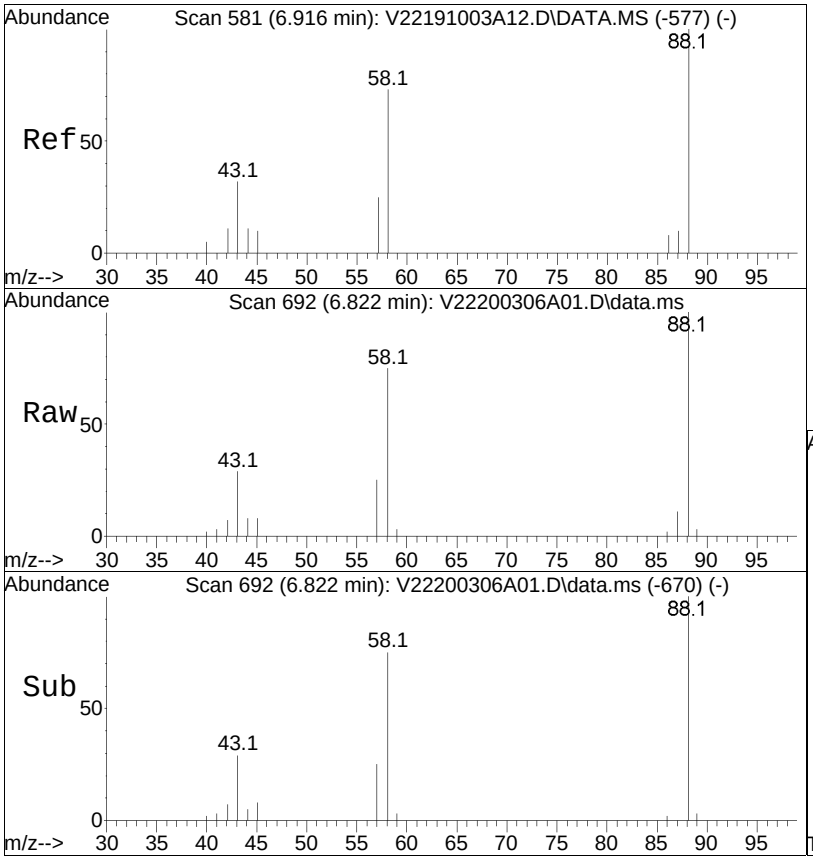


#57
Bromodichloromethane
Concen: 10.25 ug/L
RT: 6.614 min Scan# 668
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 83 Resp: 82583

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.6	77.4
127	8.3	7.4	11.0

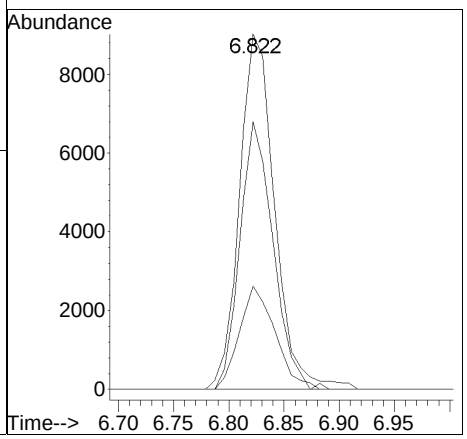


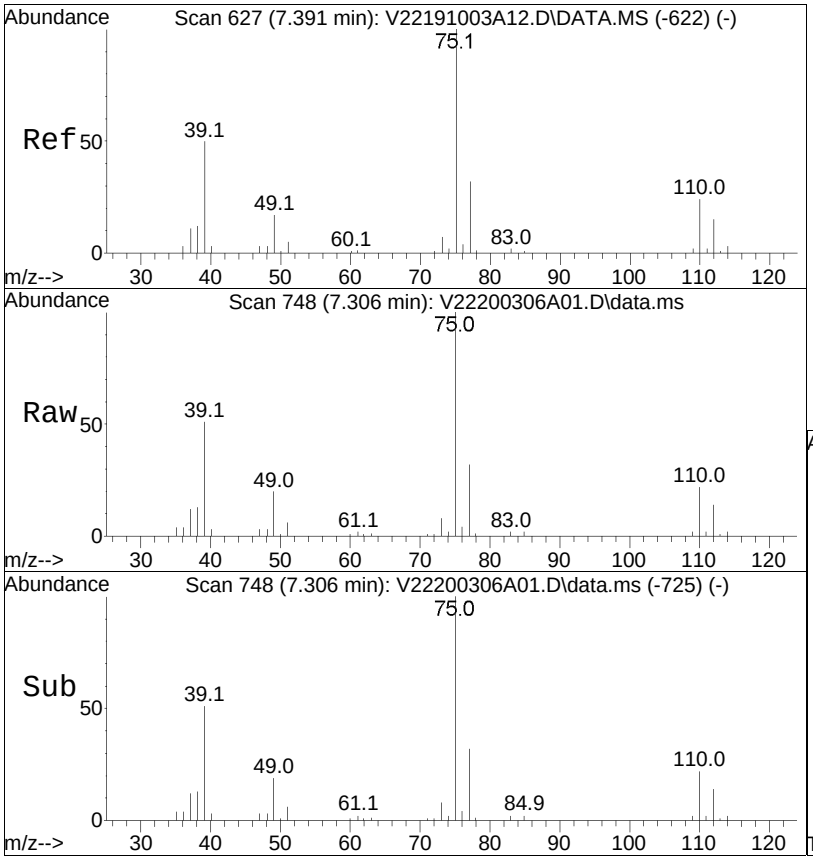


#60
1,4-Dioxane
Concen: 504.72 ug/L
RT: 6.822 min Scan# 692
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 88 Resp: 20049

Ion	Ratio	Lower	Upper
88	100		
58	70.8	43.3	64.9#
43	29.5	15.1	22.7#

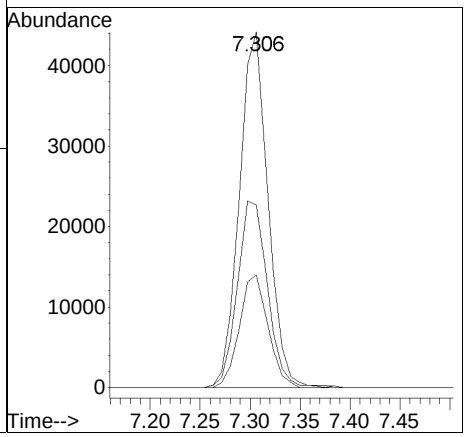


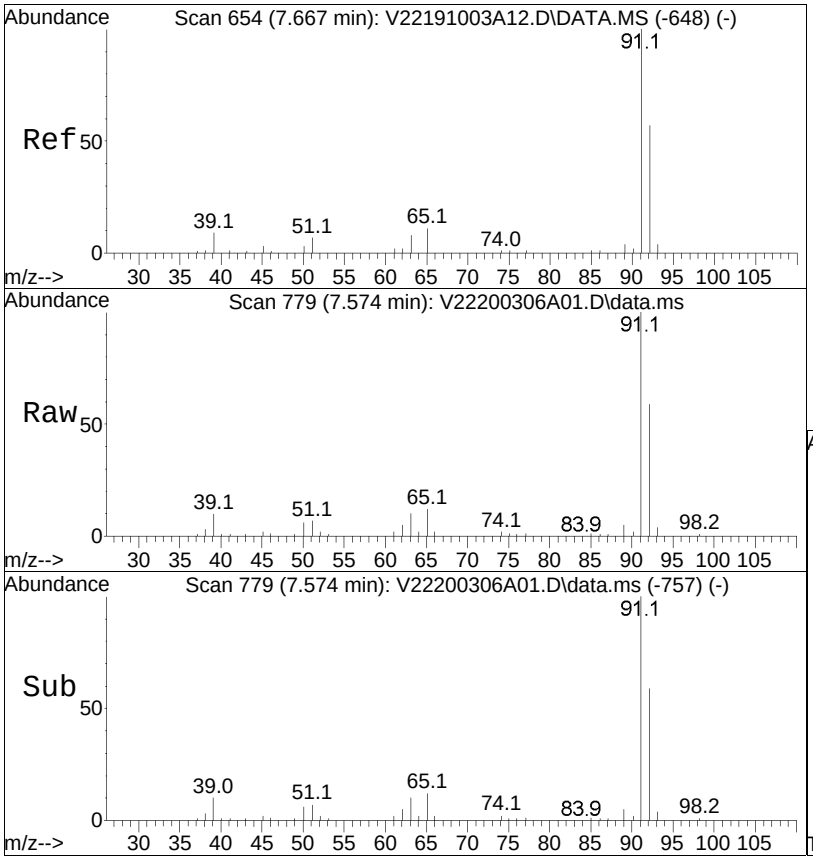


#61
cis-1,3-Dichloropropene
Concen: 9.84 ug/L
RT: 7.306 min Scan# 748
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 75 Resp: 97304

Ion	Ratio	Lower	Upper
75	100		
77	28.6	25.6	38.4
39	49.7	35.4	53.0

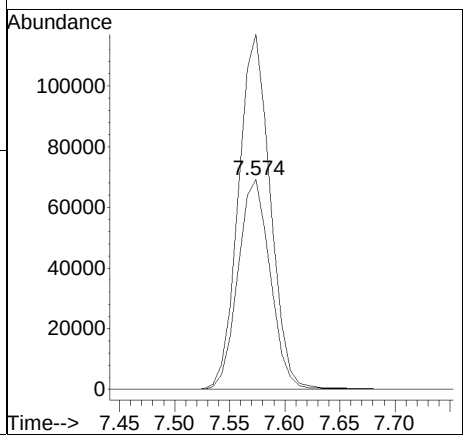


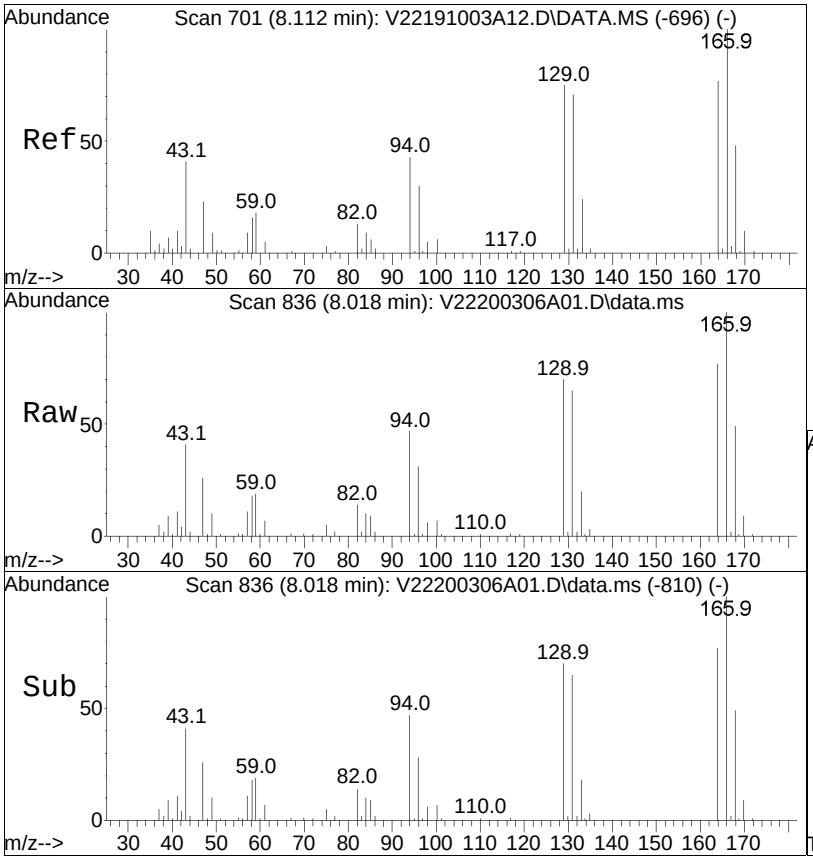


#64
Toluene
Concen: 10.44 ug/L
RT: 7.574 min Scan# 779
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 92 Resp: 140891

Ion	Ratio	Lower	Upper
92	100		
91	167.2	137.0	205.6

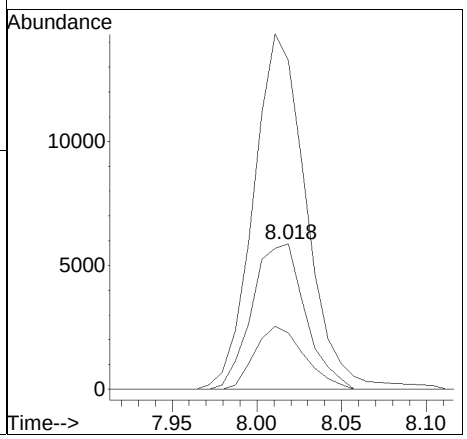


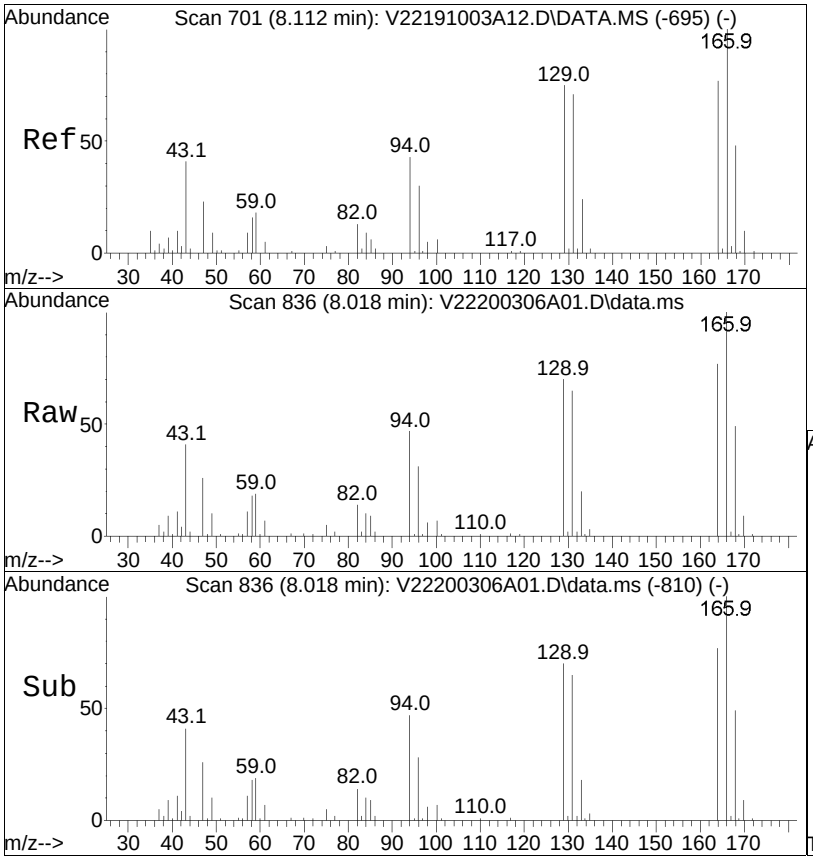


#65
4-Methyl-2-pentanone
Concen: 9.73 ug/L
RT: 8.018 min Scan# 836
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 58 Resp: 12859

Ion	Ratio	Lower	Upper
58	100		
100	40.4	36.2	54.4
43	243.4	181.8	272.8

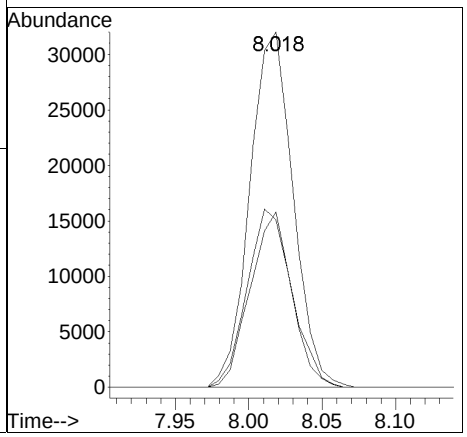


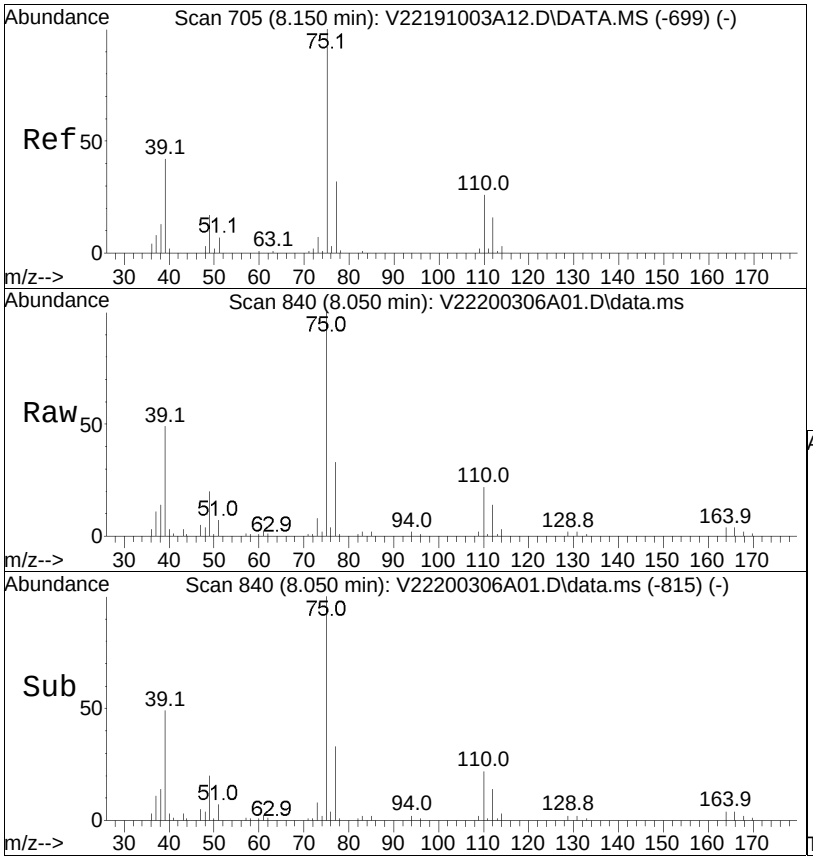


#66
Tetrachloroethene
Concen: 9.84 ug/L
RT: 8.018 min Scan# 836
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:166 Resp: 65720

Ion	Ratio	Lower	Upper
166	100		
168	48.7	27.8	67.8
94	50.6	16.7	56.7

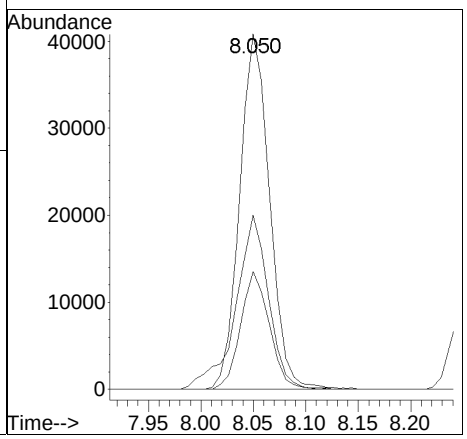


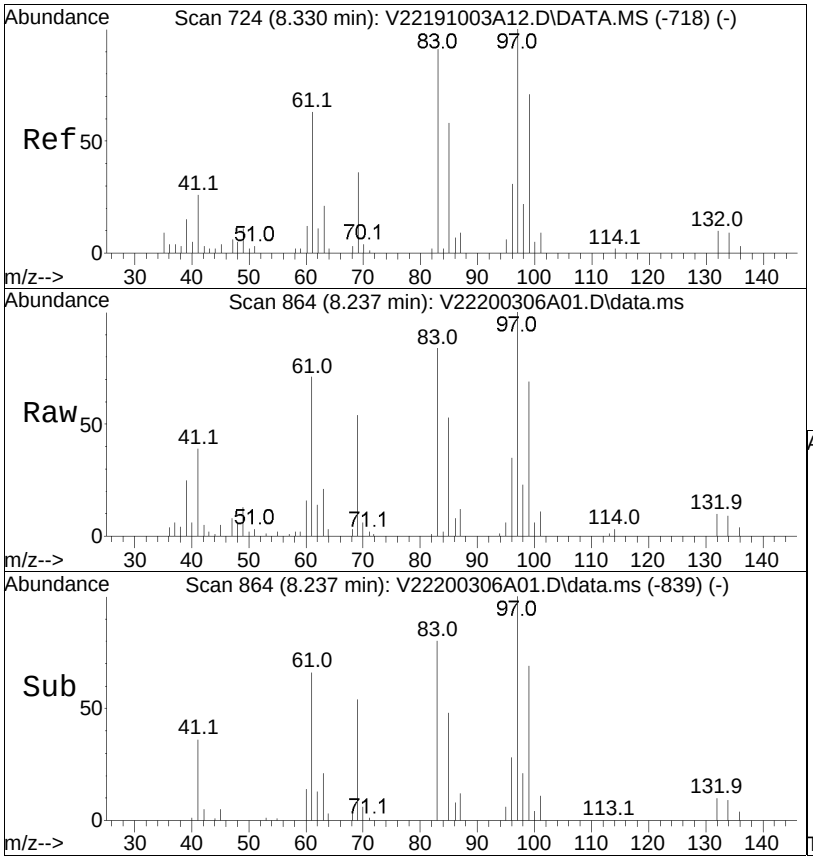


#68
trans-1,3-Dichloropropene
Concen: 11.17 ug/L
RT: 8.050 min Scan# 840
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 75 Resp: 81223

Ion	Ratio	Lower	Upper
75	100		
77	31.8	11.9	51.9
39	53.7	27.4	67.4

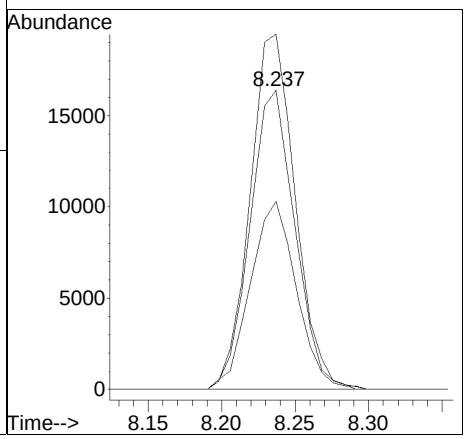


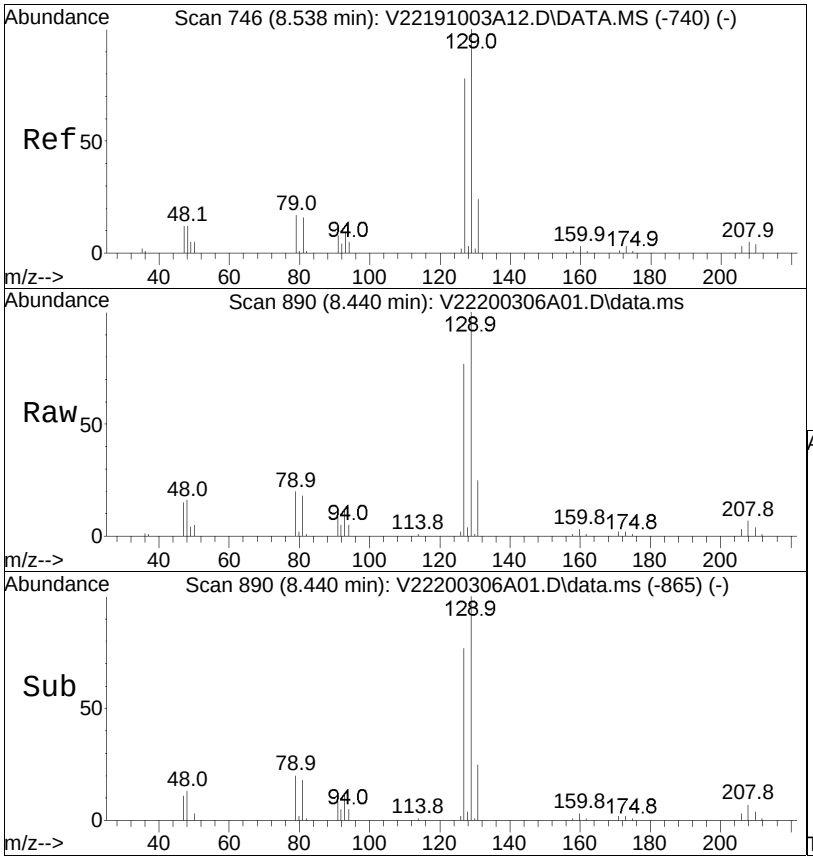


#71
1,1,2-Trichloroethane
Concen: 9.88 ug/L
RT: 8.237 min Scan# 864
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 83 Resp: 34885

Ion	Ratio	Lower	Upper
83	100		
97	119.5	103.4	143.4
85	64.6	47.9	87.9

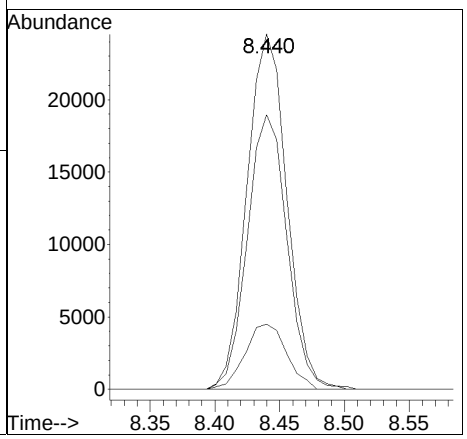


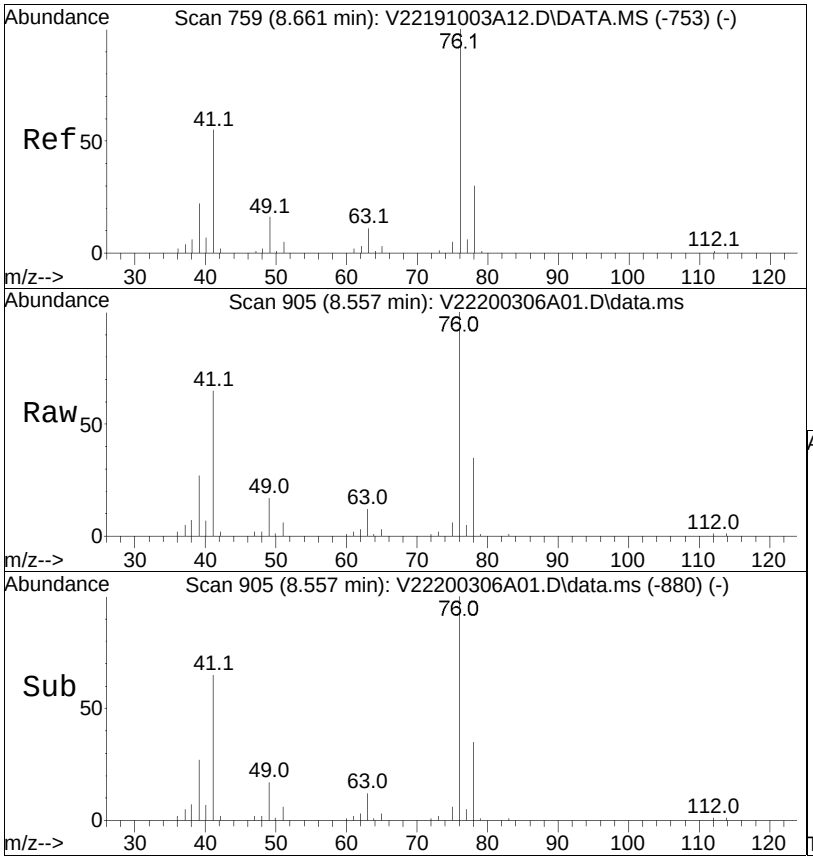


#72
Chlorodibromomethane
Concen: 10.08 ug/L
RT: 8.440 min Scan# 890
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:129 Resp: 52646

Ion	Ratio	Lower	Upper
129	100		
81	19.2	0.0	33.8
127	76.7	57.1	97.1

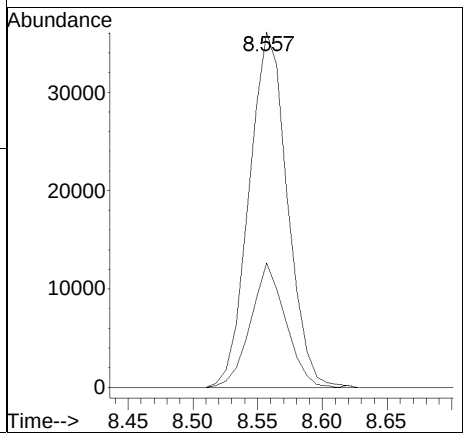


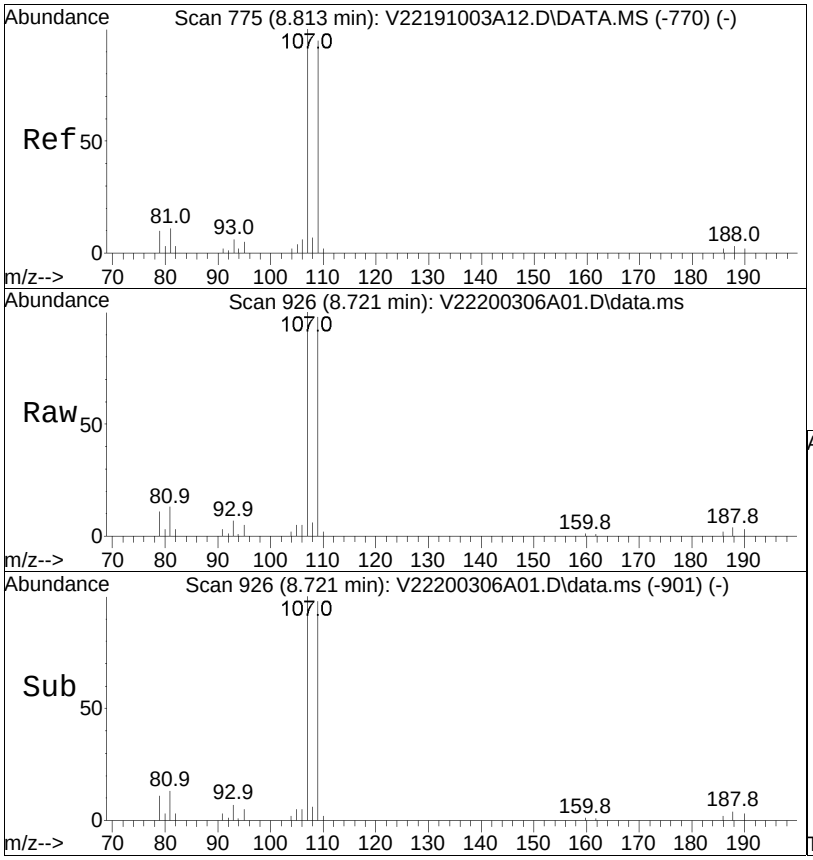


#73
1,3-Dichloropropane
Concen: 10.34 ug/L
RT: 8.557 min Scan# 905
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 76 Resp: 74029

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.7	38.5

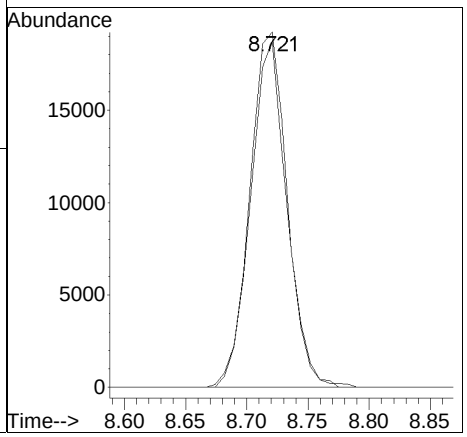


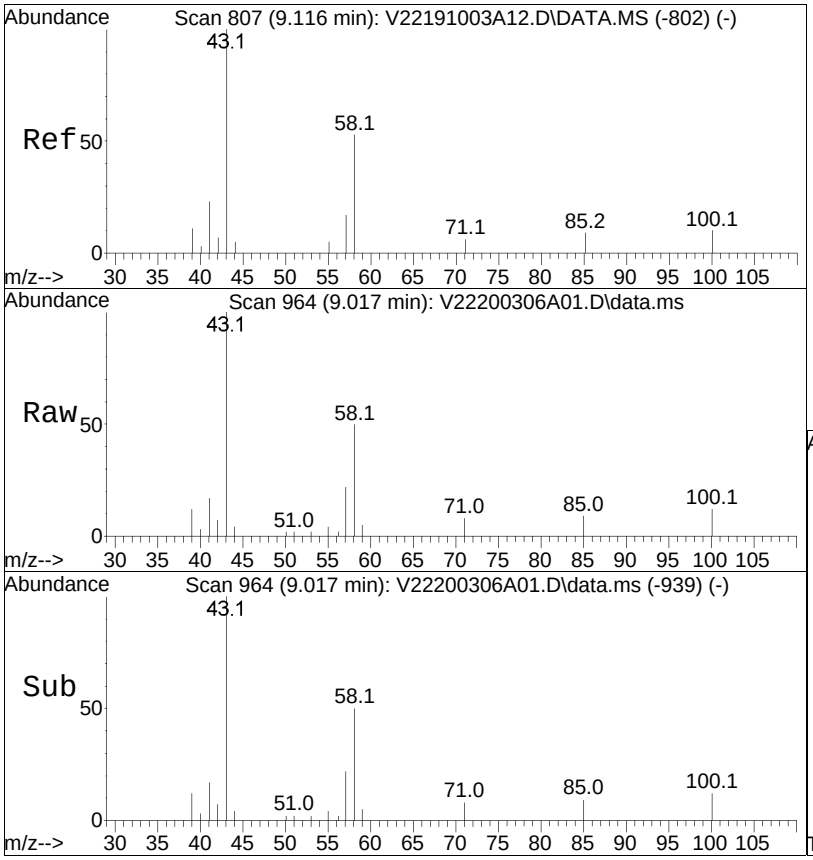


#74
1,2-Dibromoethane
Concen: 9.60 ug/L
RT: 8.721 min Scan# 926
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:107 Resp: 41189

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.1	112.7

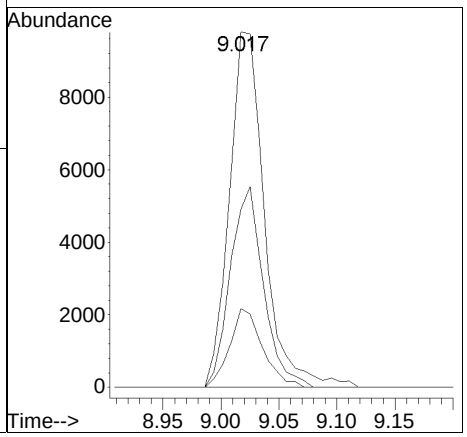


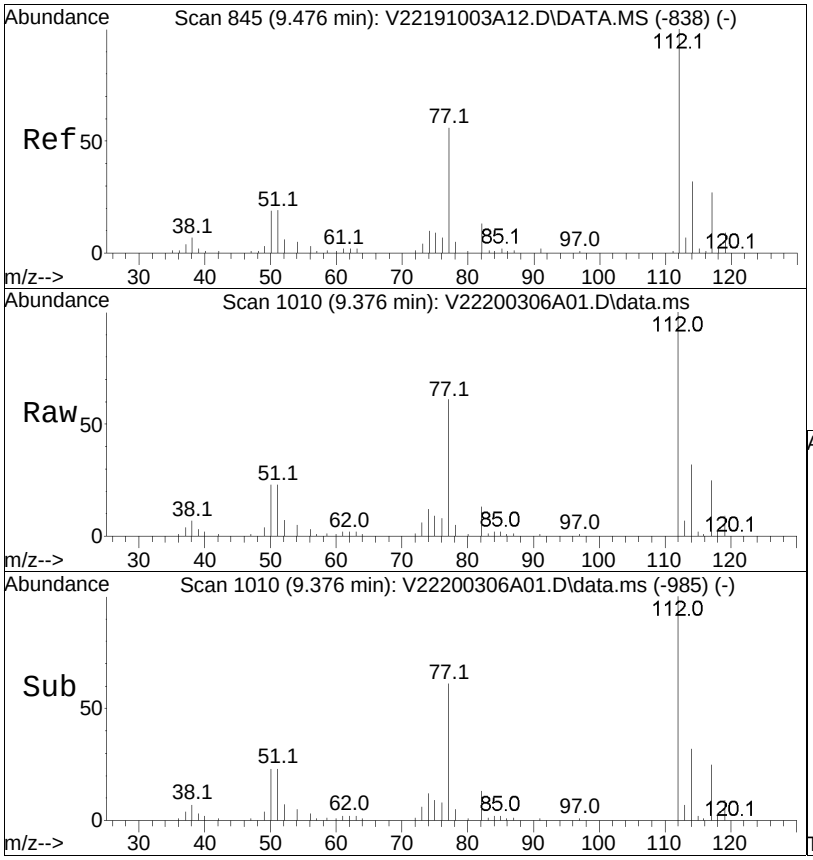


#76
2-Hexanone
Concen: 9.05 ug/L
RT: 9.017 min Scan# 964
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 43 Resp: 20660

Ion	Ratio	Lower	Upper
43	100		
58	53.3	47.6	71.4
57	20.8	16.6	24.8

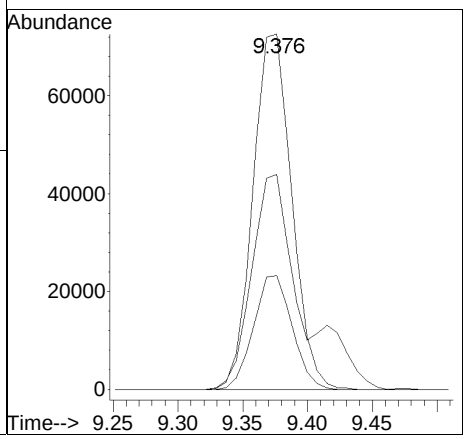


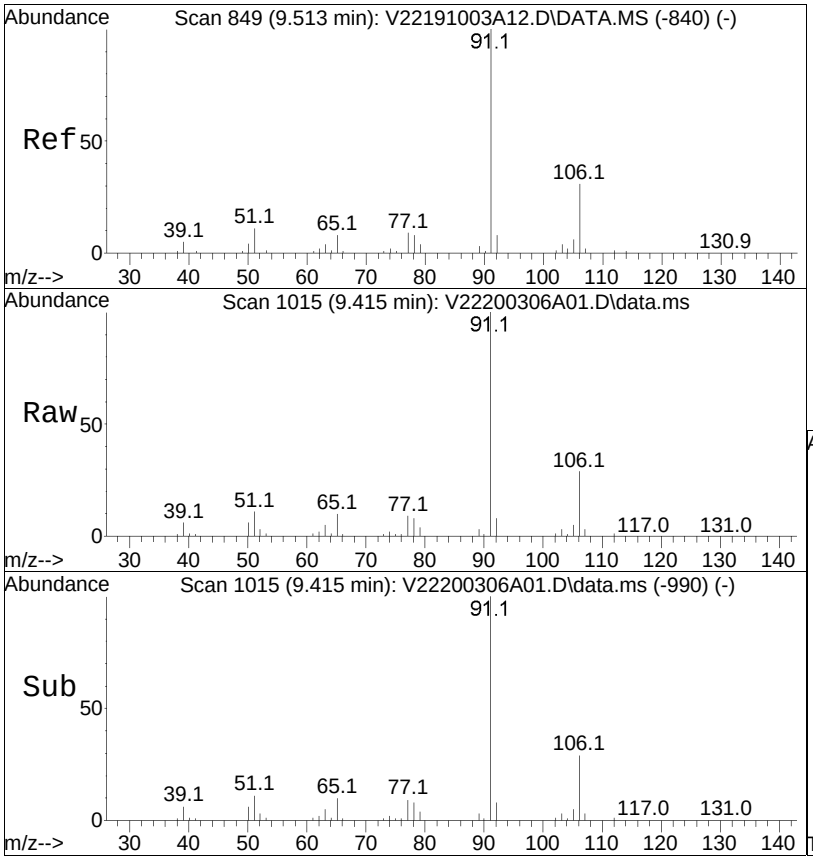


#77
Chlorobenzene
Concen: 9.99 ug/L
RT: 9.376 min Scan# 1010
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:112 Resp: 151410

Ion	Ratio	Lower	Upper
112	100		
77	65.7	55.4	83.0
114	31.8	26.2	39.4

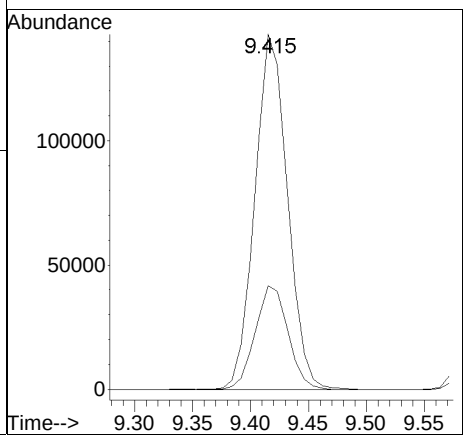


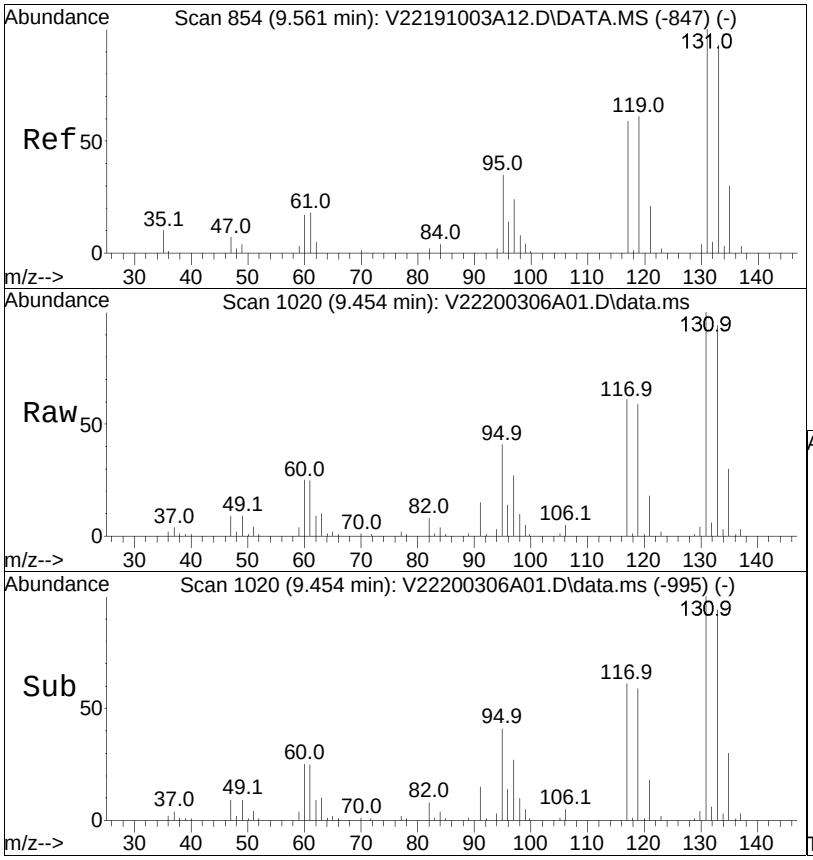


#78
Ethylbenzene
Concen: 10.64 ug/L
RT: 9.415 min Scan# 1015
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 91 Resp: 279398

Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.8	38.6

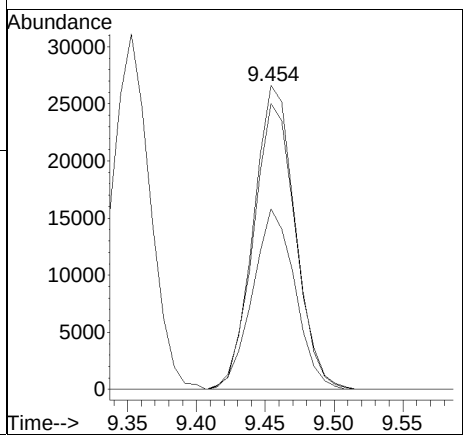


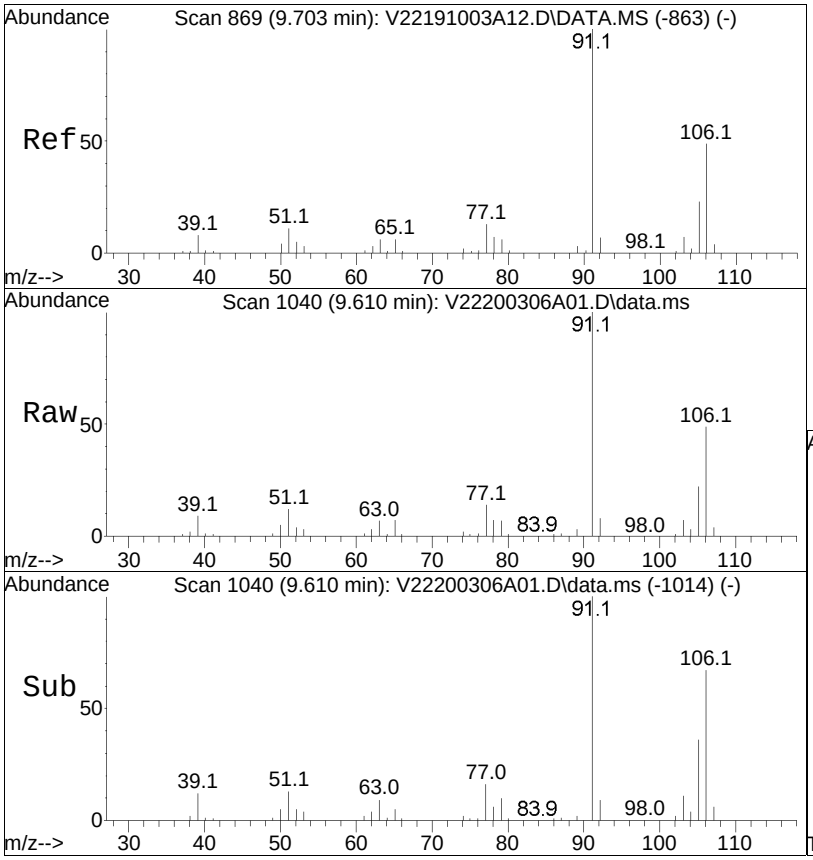


#79
1,1,1,2-Tetrachloroethane
Concen: 10.09 ug/L
RT: 9.454 min Scan# 1020
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:131 Resp: 56154

Ion	Ratio	Lower	Upper
131	100		
133	95.2	75.3	115.3
119	60.3	49.3	89.3

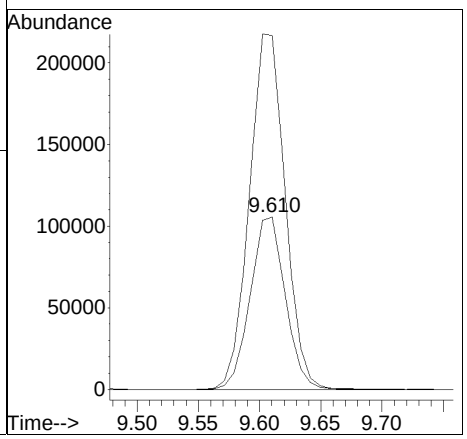


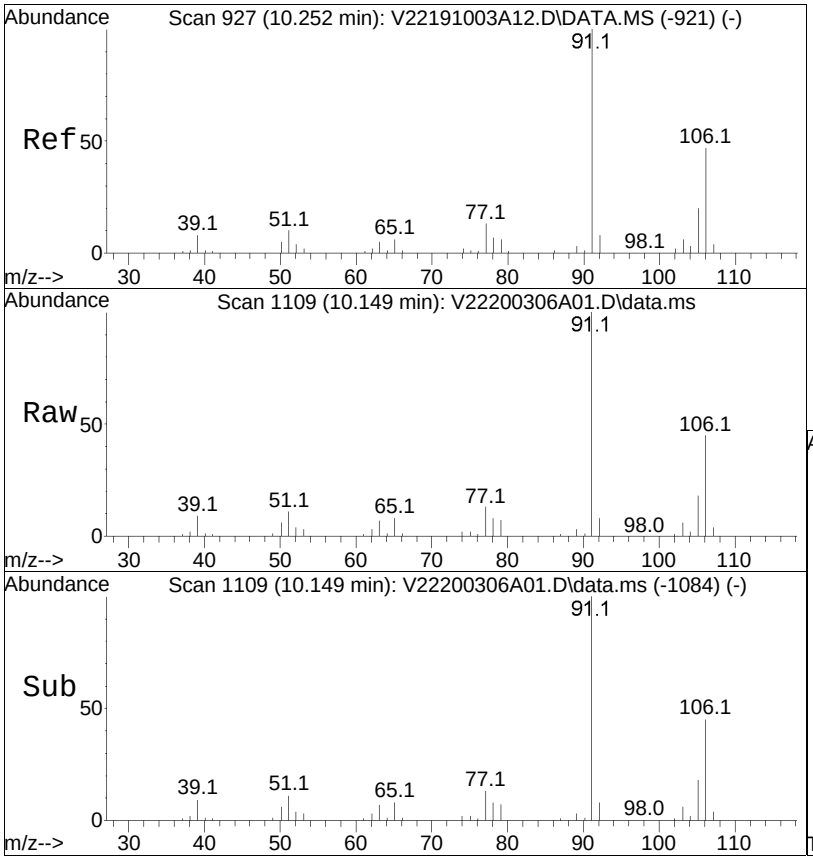


#80
p/m Xylene
Concen: 19.92 ug/L
RT: 9.610 min Scan# 1040
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:106 Resp: 210523

Ion	Ratio	Lower	Upper
106	100		
91	210.3	156.0	234.0

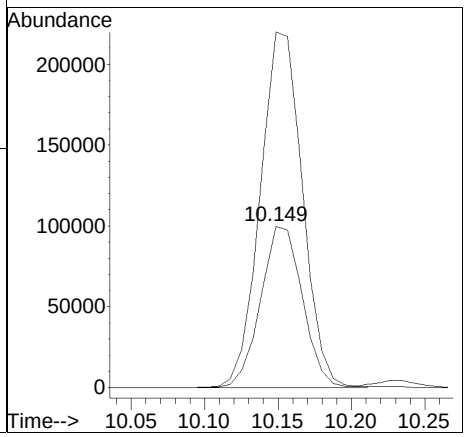


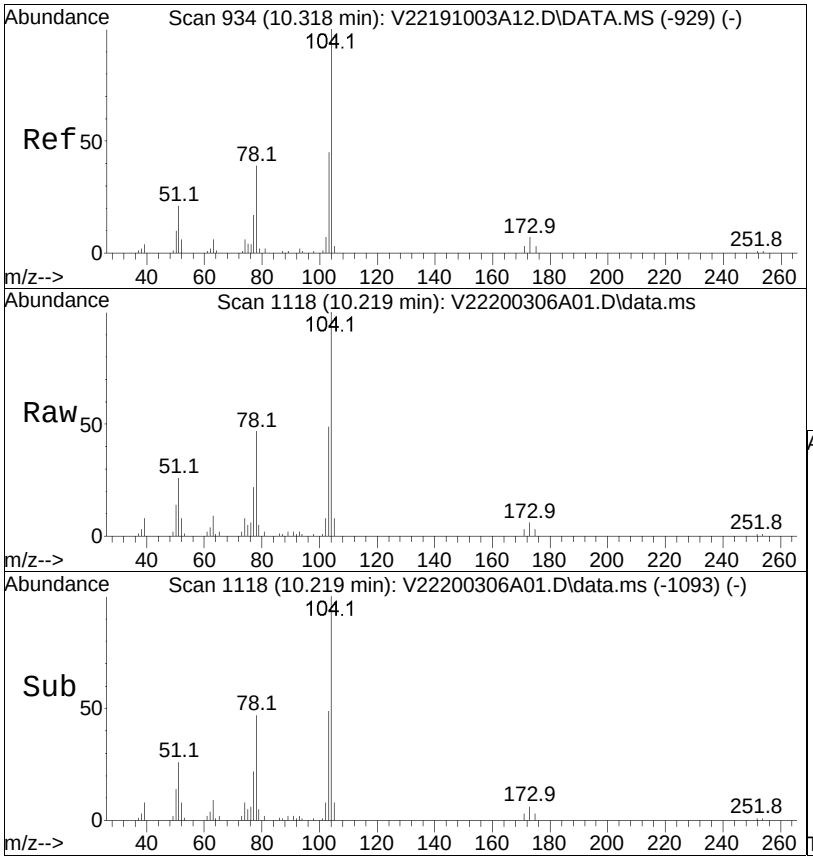


#81
o Xylene
Concen: 19.78 ug/L
RT: 10.149 min Scan# 1109
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:106 Resp: 196807

Ion	Ratio	Lower	Upper
106	100		
91	223.0	164.0	246.0

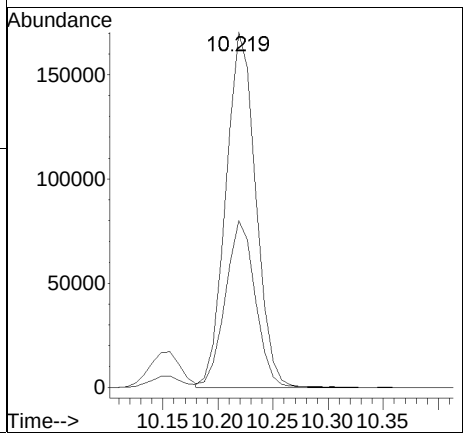


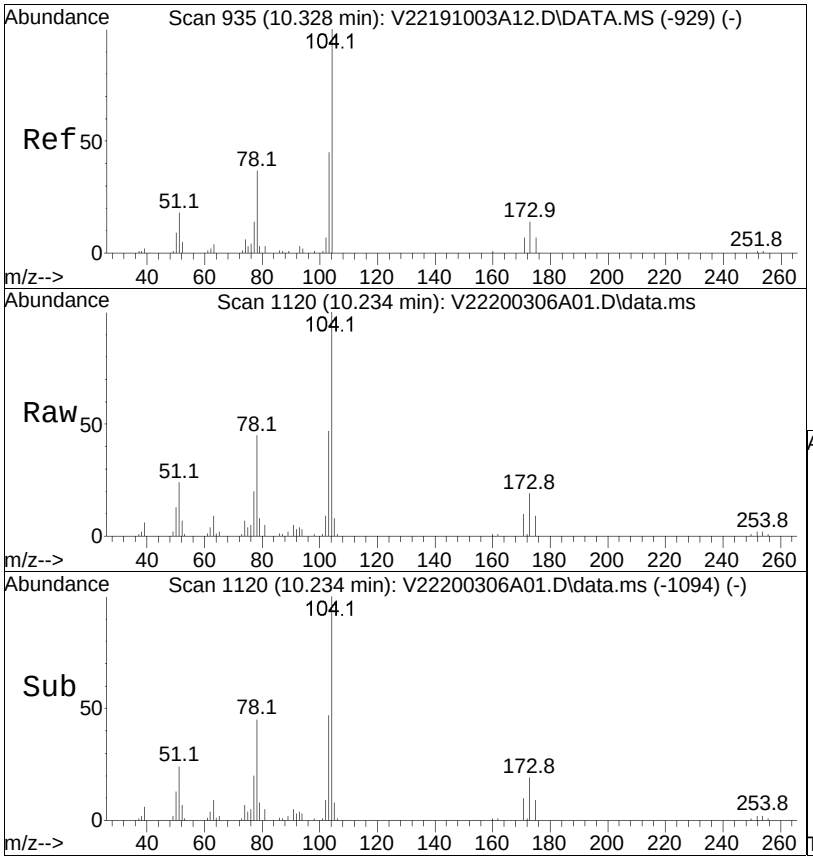


#82
Styrene
Concen: 19.75 ug/L
RT: 10.219 min Scan# 1118
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:104 Resp: 322641

Ion	Ratio	Lower	Upper
104	100		
78	46.9	32.1	48.1

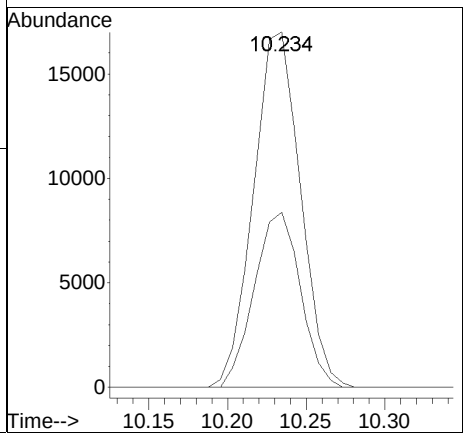


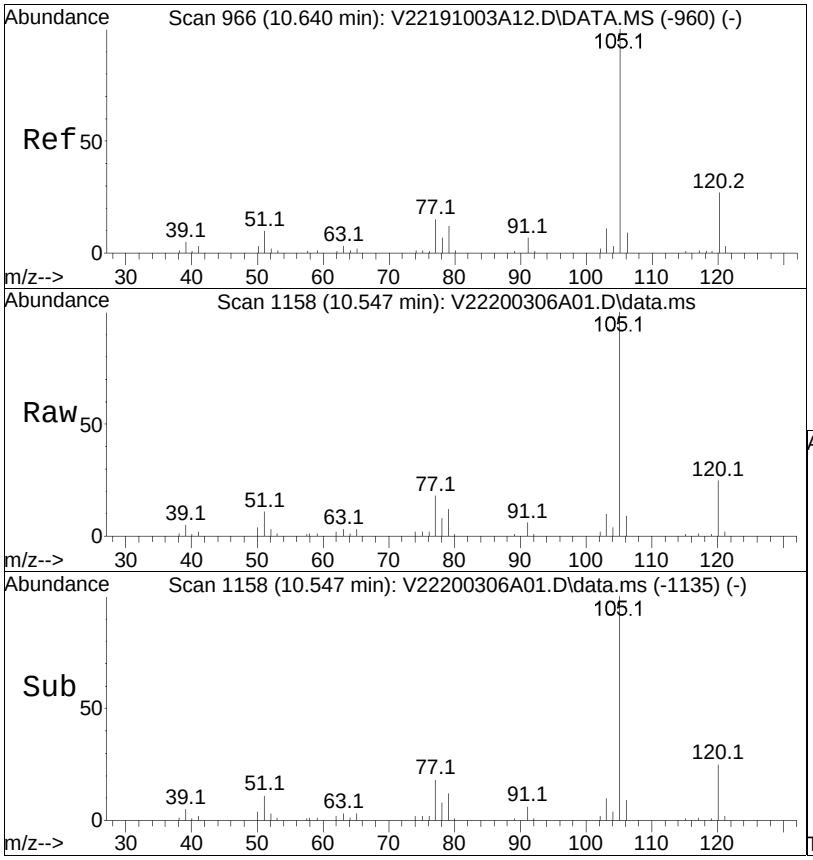


#84
Bromoform
Concen: 9.66 ug/L
RT: 10.234 min Scan# 1120
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:173 Resp: 35320

Ion	Ratio	Lower	Upper
173	100		
175	48.4	29.3	69.3

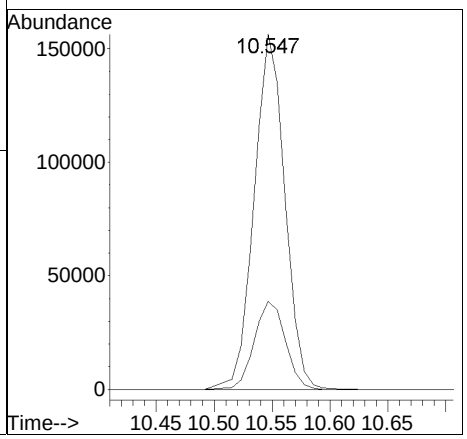


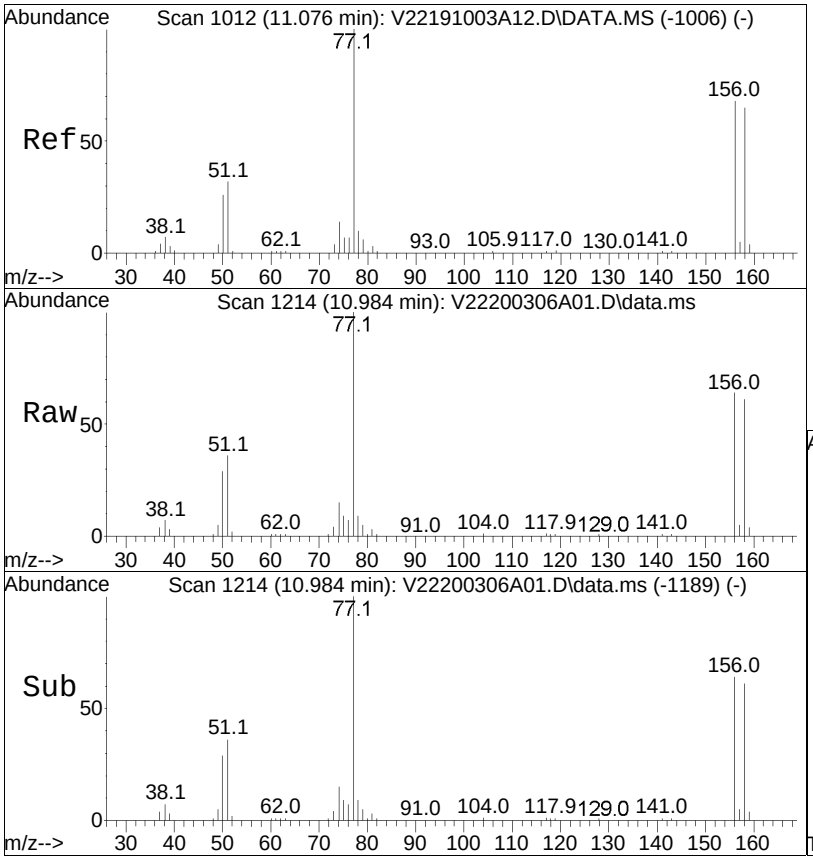


#86
Isopropylbenzene
Concen: 9.79 ug/L
RT: 10.547 min Scan# 1158
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:105 Resp: 319174

Ion	Ratio	Lower	Upper
105	100		
120	26.0	7.7	47.7

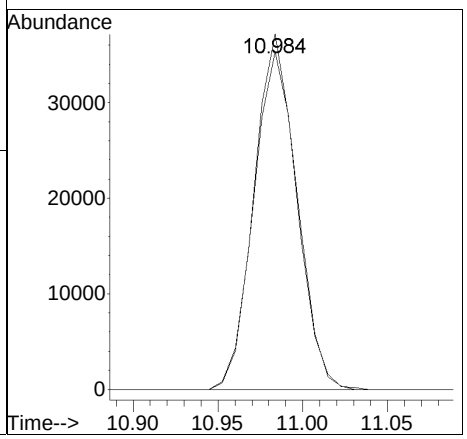


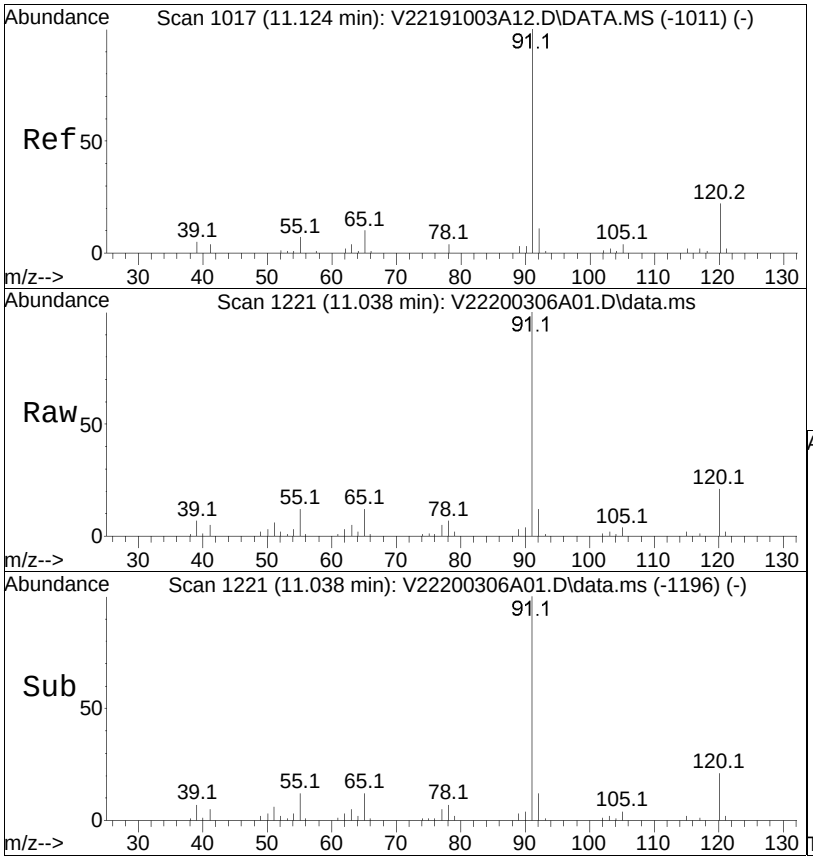


#88
Bromobenzene
Concen: 9.62 ug/L
RT: 10.984 min Scan# 1214
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:156 Resp: 65201

Ion	Ratio	Lower	Upper
156	100		
158	97.0	77.9	116.9

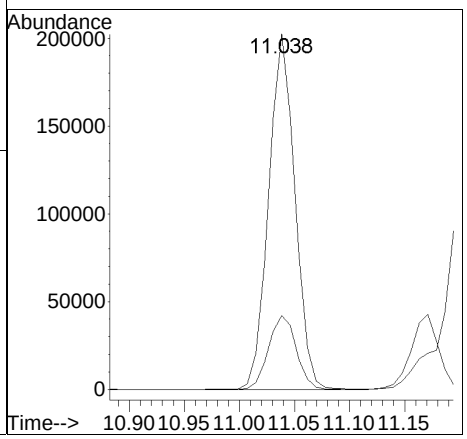


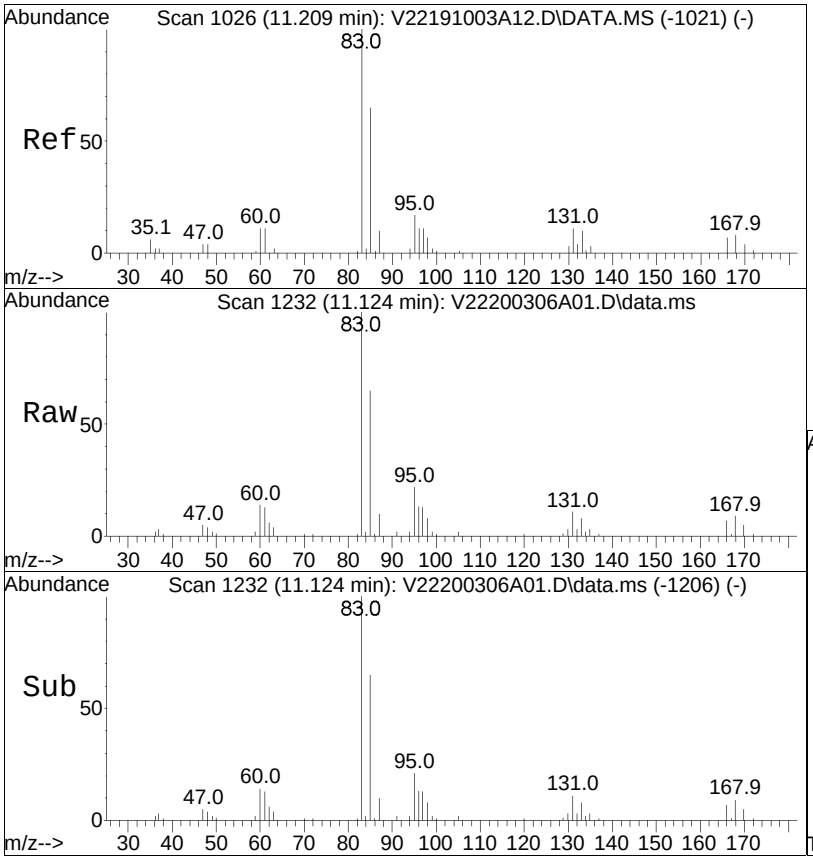


#89
n-Propylbenzene
Concen: 9.86 ug/L
RT: 11.038 min Scan# 1221
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 91 Resp: 335652

Ion	Ratio	Lower	Upper
91	100		
120	21.8	19.5	29.3

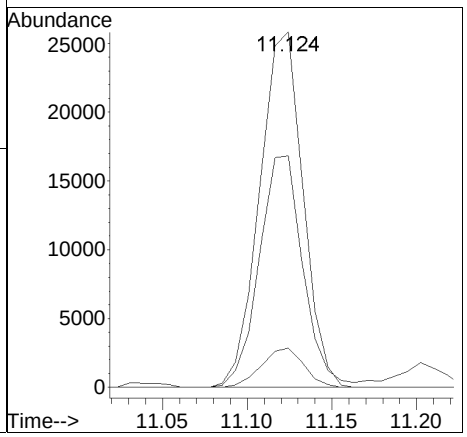


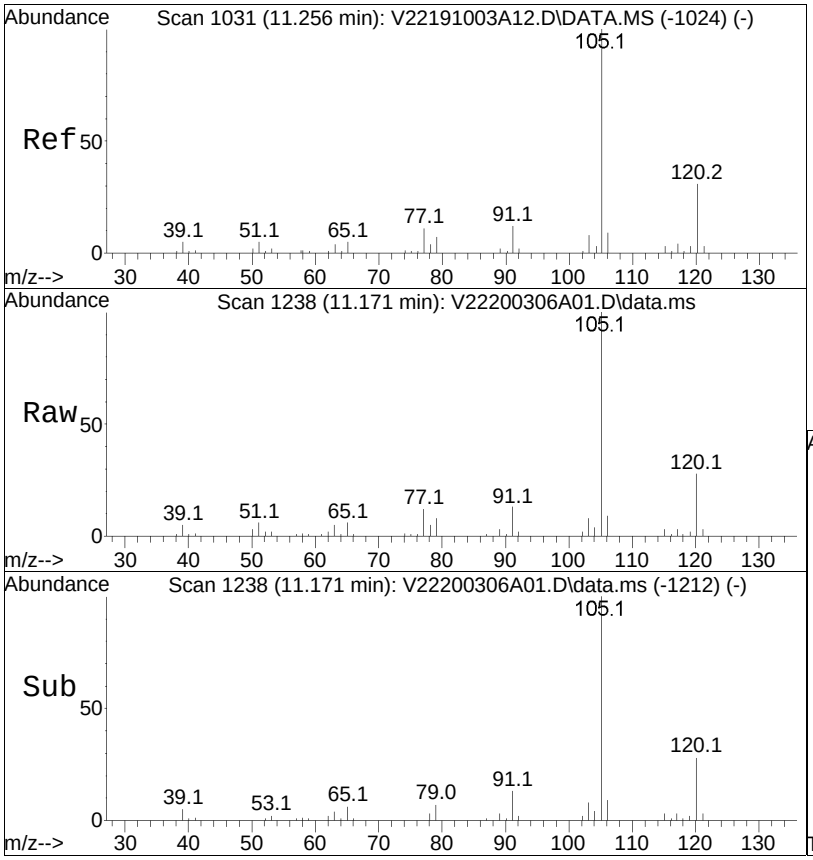


#91
1,1,2,2-Tetrachloroethane
Concen: 9.14 ug/L
RT: 11.124 min Scan# 1232
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 83 Resp: 46073

Ion	Ratio	Lower	Upper
83	100		
131	10.9	0.0	30.8
85	65.7	45.4	85.4

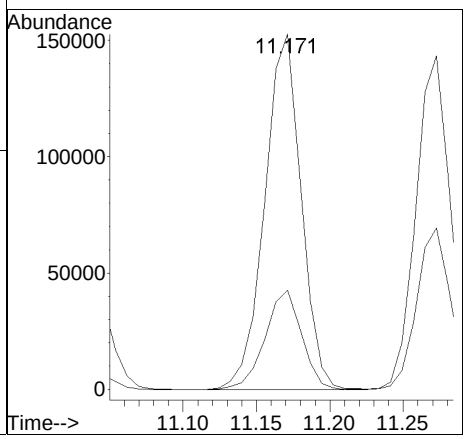


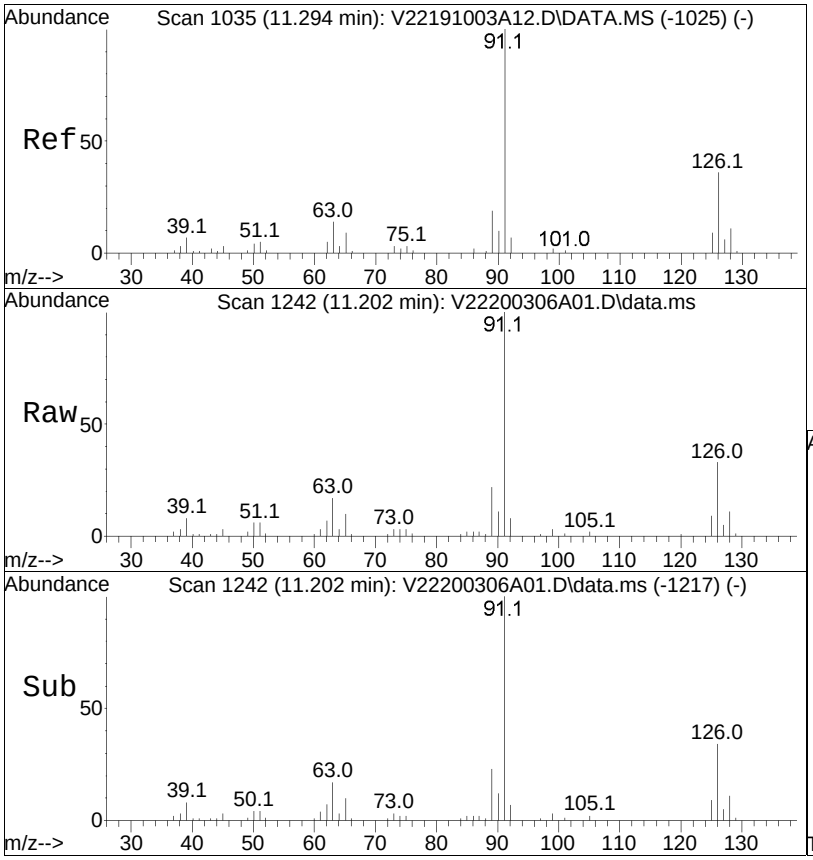


#92
4-Ethyltoluene
Concen: 9.94 ug/L
RT: 11.171 min Scan# 1238
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:105 Resp: 263407

Ion	Ratio	Lower	Upper
105	100		
120	28.0	19.8	41.0

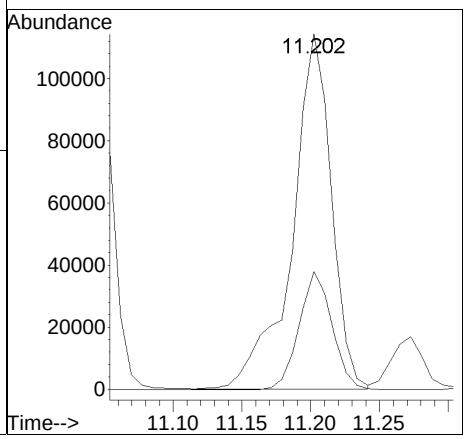


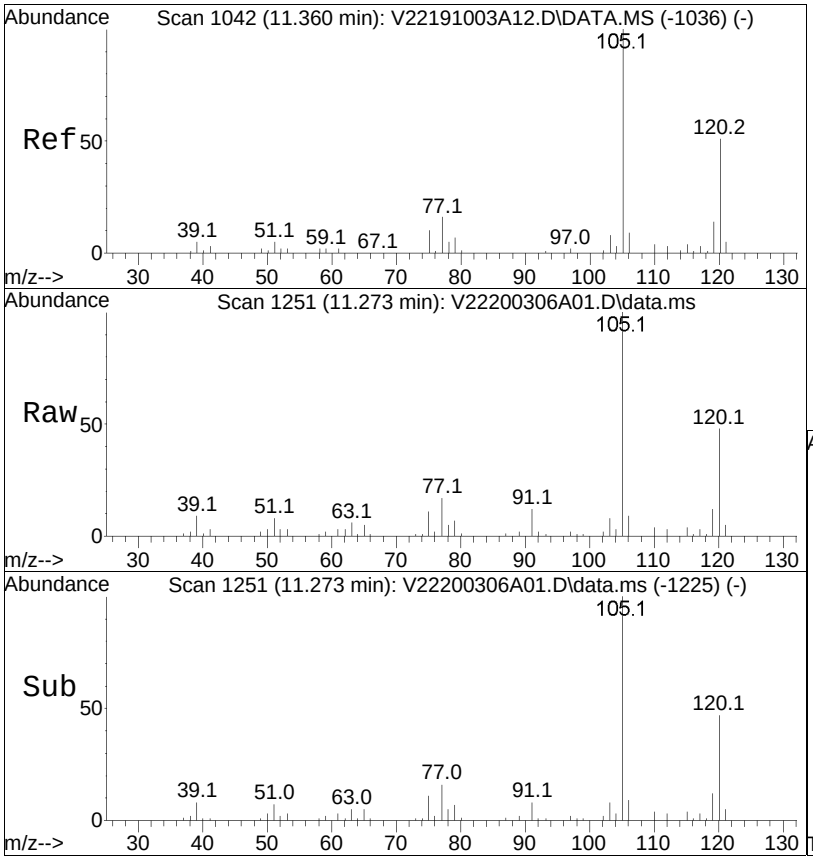


#93
2-Chlorotoluene
Concen: 10.41 ug/L
RT: 11.202 min Scan# 1242
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 91 Resp: 226386

Ion	Ratio	Lower	Upper
91	100		
126	27.7	24.6	37.0

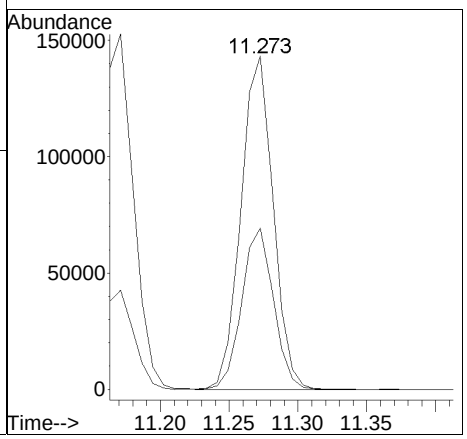


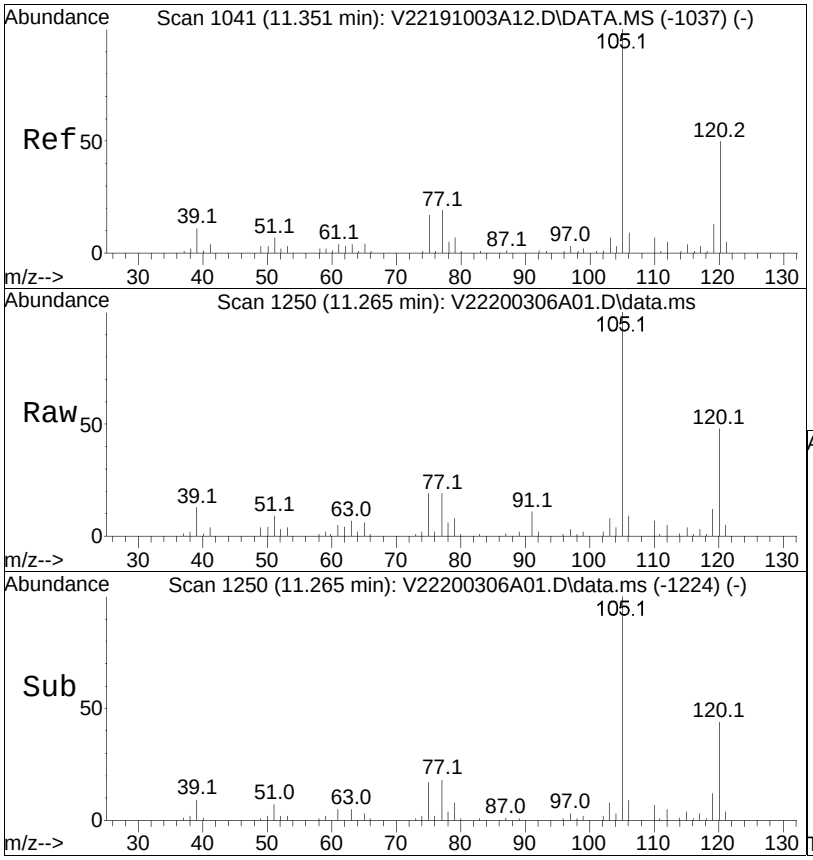


#94
1,3,5-Trimethylbenzene
Concen: 10.08 ug/L
RT: 11.273 min Scan# 1251
Delta R.T. 0.001 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:105 Resp: 233425

Ion	Ratio	Lower	Upper
105	100		
120	47.7	40.9	61.3

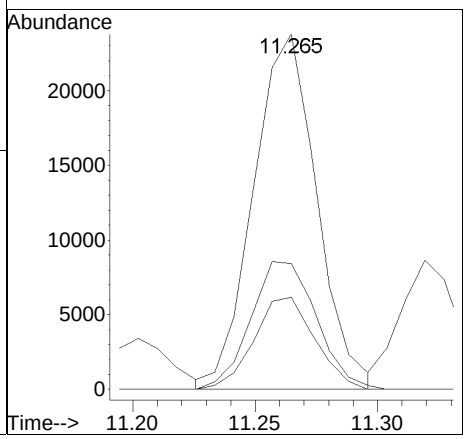


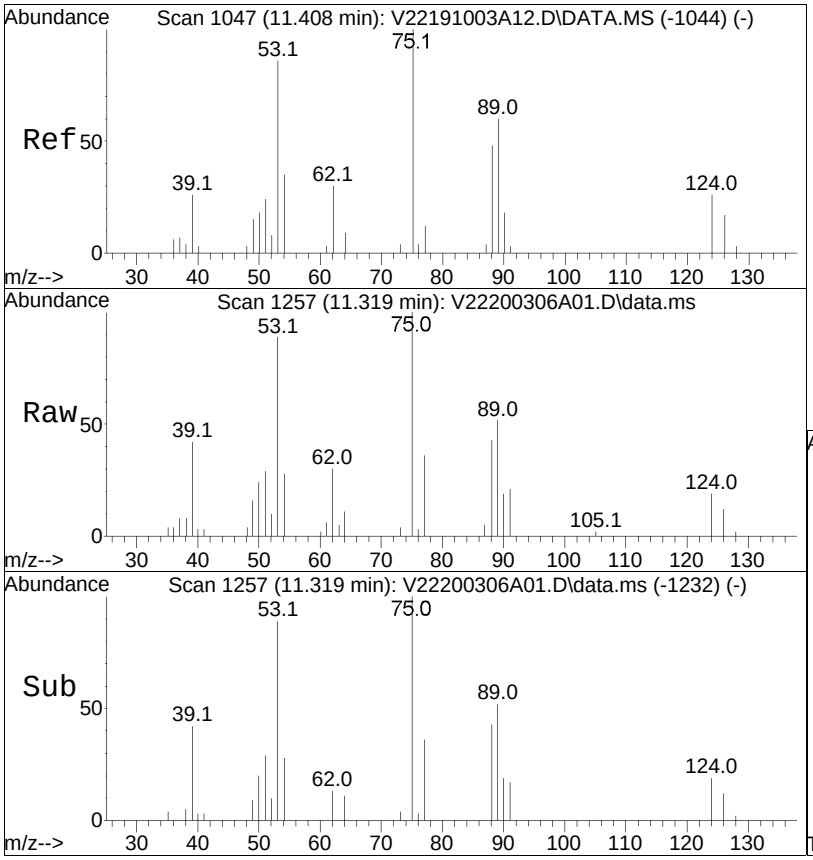


#95
1,2,3-Trichloropropane
Concen: 9.90 ug/L
RT: 11.265 min Scan# 1250
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 75 Resp: 42788

Ion	Ratio	Lower	Upper
75	100		
110	37.4	26.3	54.7
112	25.1	16.8	35.0

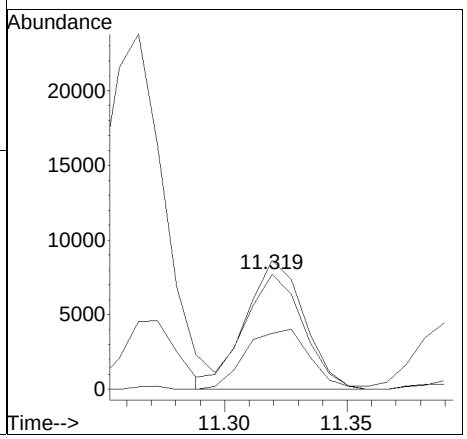


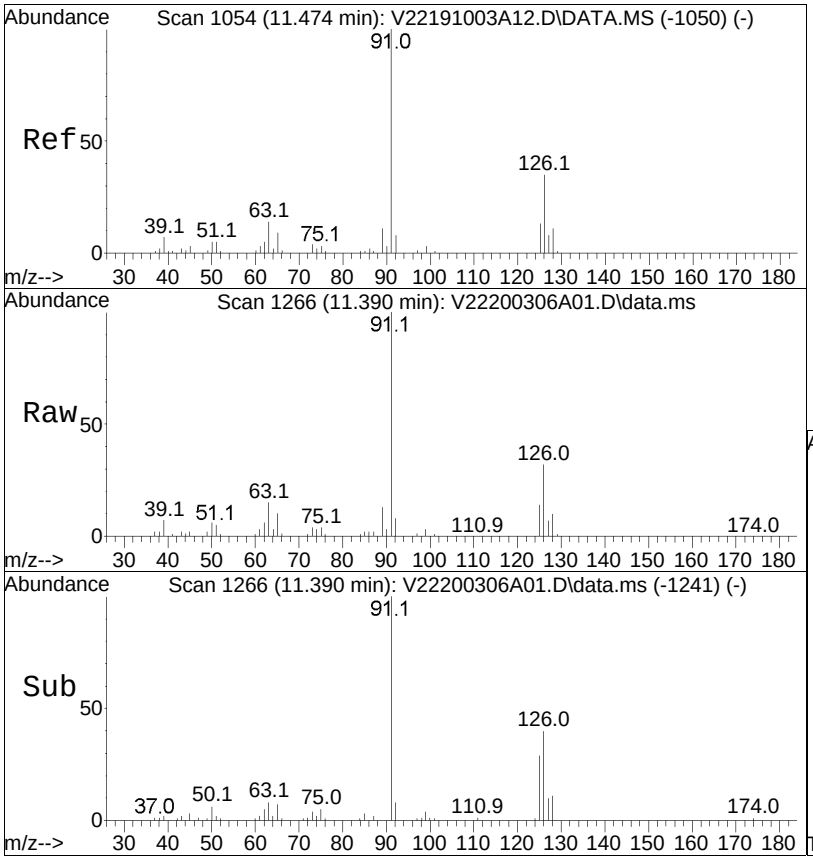


#96
trans-1,4-Dichloro-2-butene
Concen: 9.11 ug/L
RT: 11.319 min Scan# 1257
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 53 Resp: 13062

Ion	Ratio	Lower	Upper
53	100		
88	56.0	46.3	69.5
75	105.9	109.0	163.4#

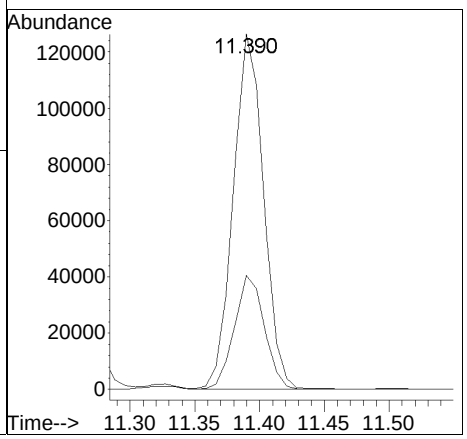


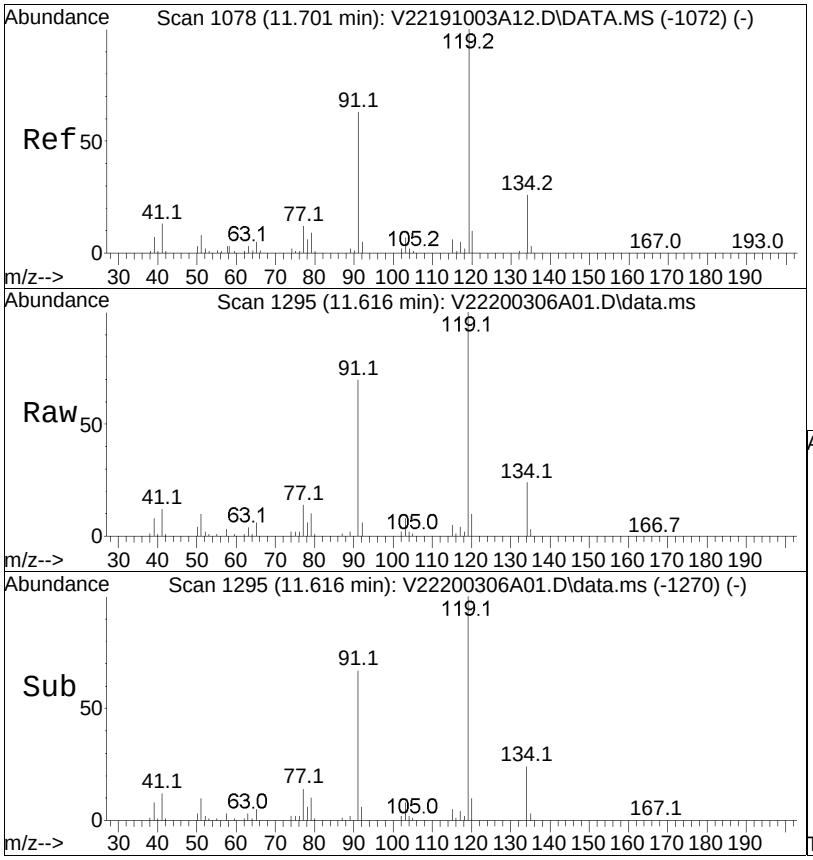


#97
4-Chlorotoluene
Concen: 10.44 ug/L
RT: 11.390 min Scan# 1266
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 91 Resp: 206274

Ion	Ratio	Lower	Upper
91	100		
126	31.7	28.5	42.7

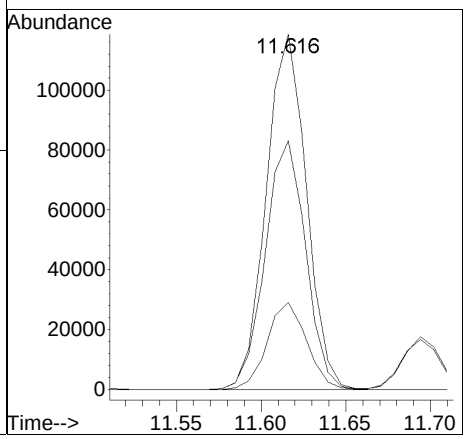


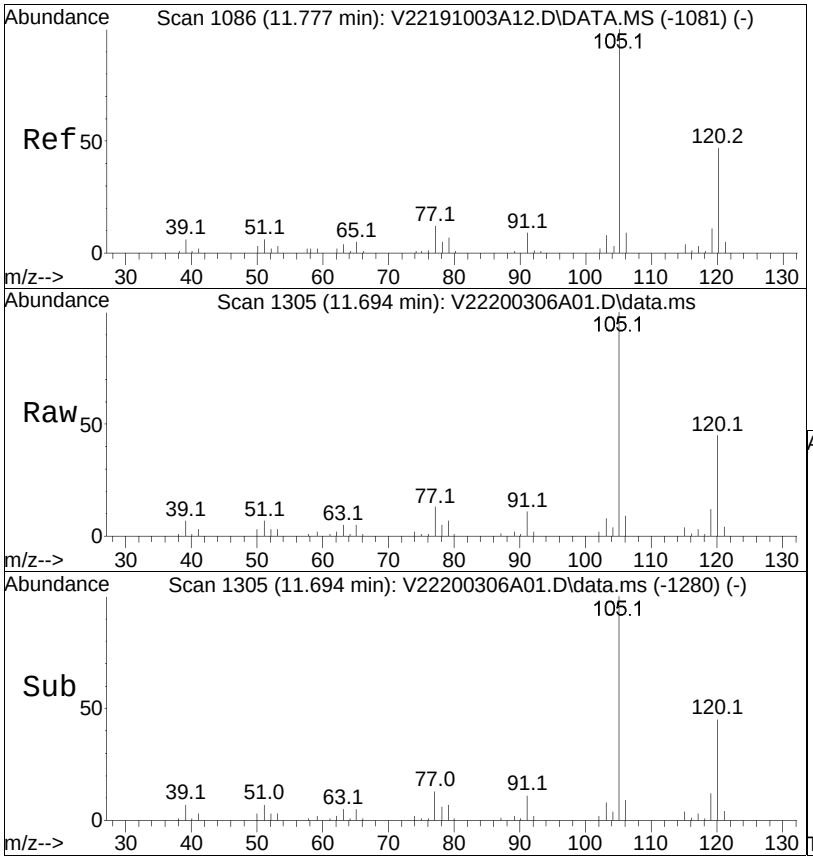


#98
tert-Butylbenzene
Concen: 9.57 ug/L
RT: 11.616 min Scan# 1295
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:119 Resp: 195666

Ion	Ratio	Lower	Upper
119	100		
91	70.7	50.2	75.4
134	24.0	20.8	31.2

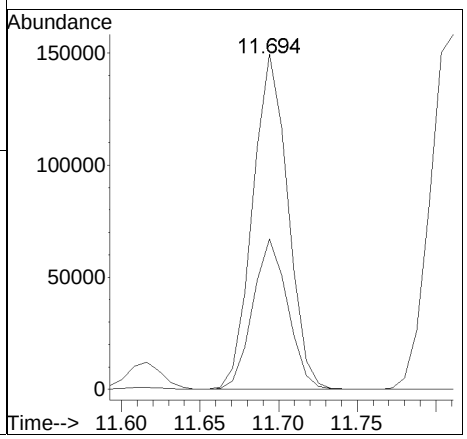


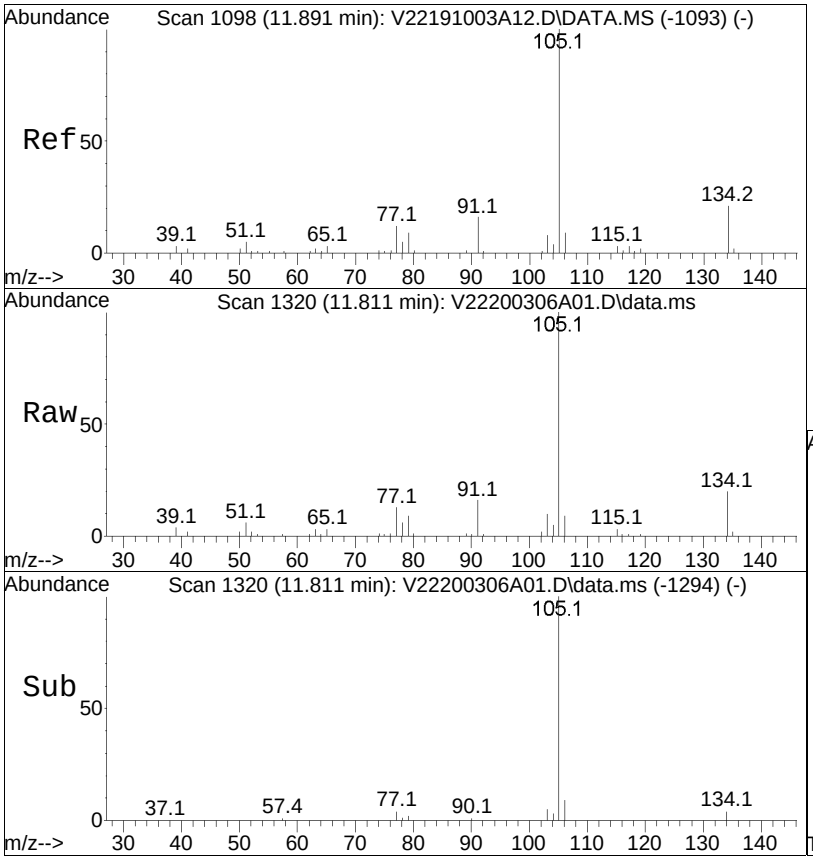


#101
1,2,4-Trimethylbenzene
Concen: 10.38 ug/L
RT: 11.694 min Scan# 1305
Delta R.T. -0.008 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:105 Resp: 232810

Ion	Ratio	Lower	Upper
105	100		
120	44.6	38.5	57.7

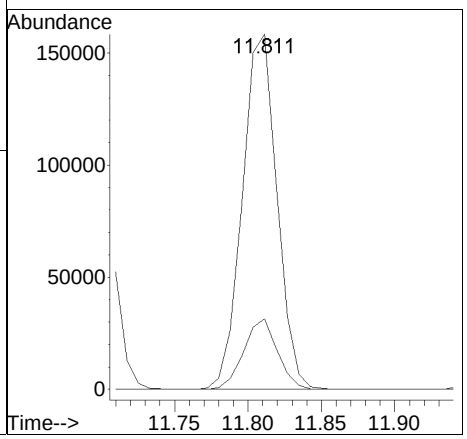


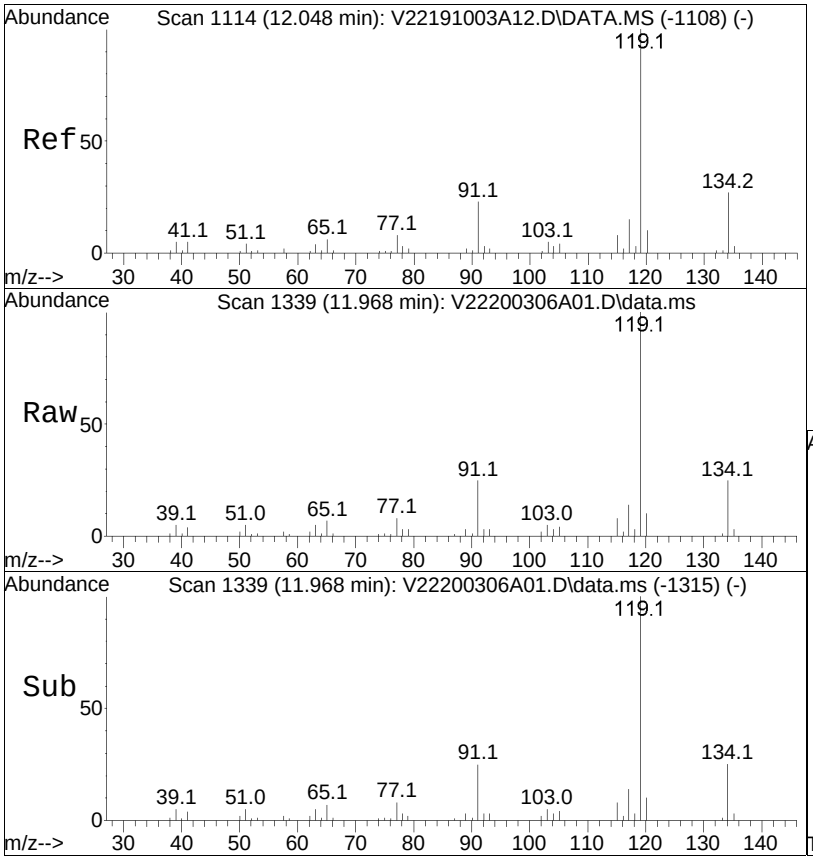


#102
sec-Butylbenzene
Concen: 8.91 ug/L
RT: 11.811 min Scan# 1320
Delta R.T. 0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:105 Resp: 260421

Ion	Ratio	Lower	Upper
105	100		
134	19.3	13.9	28.9

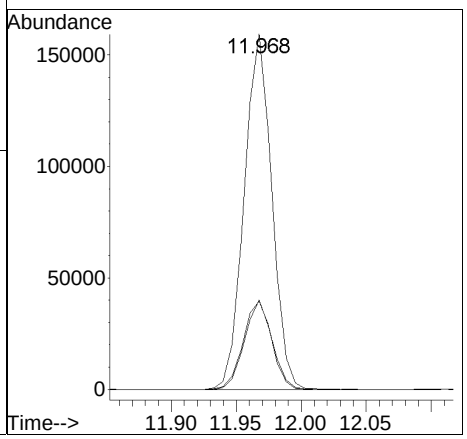


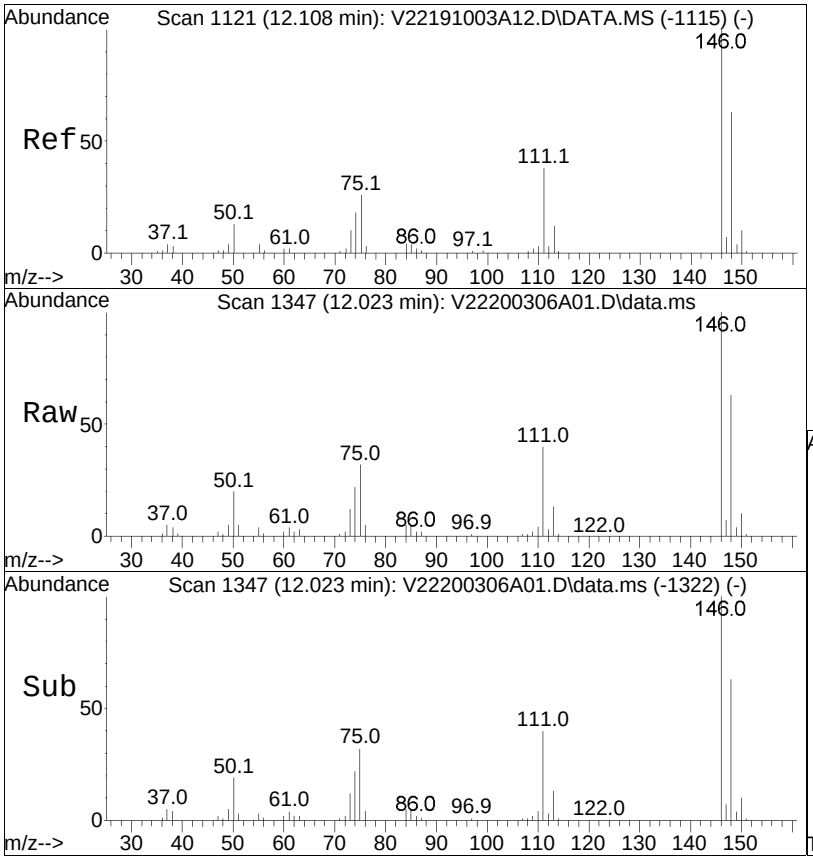


#103
p-Isopropyltoluene
Concen: 9.29 ug/L
RT: 11.968 min Scan# 1339
Delta R.T. -0.006 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:119 Resp: 235597

Ion	Ratio	Lower	Upper
119	100		
134	24.9	17.7	36.7
91	25.5	14.1	29.3

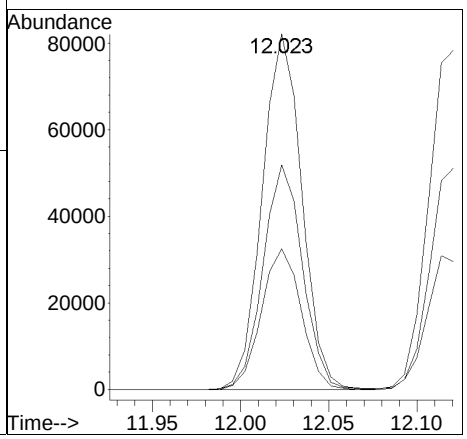


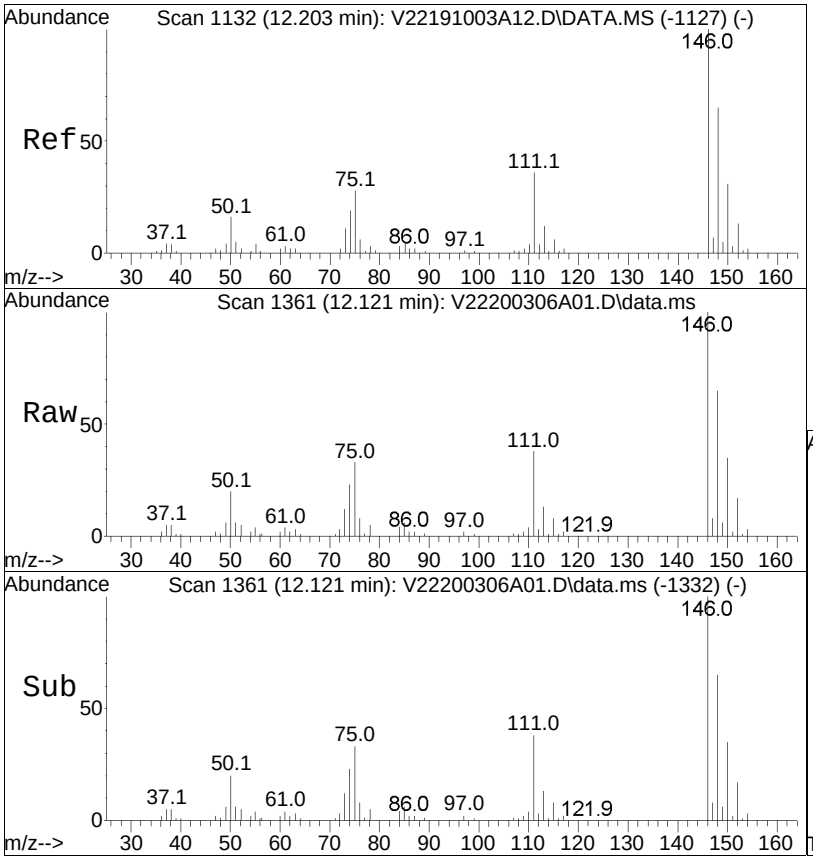


#104
1,3-Dichlorobenzene
Concen: 9.80 ug/L
RT: 12.023 min Scan# 1347
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:146 Resp: 128150

Ion	Ratio	Lower	Upper
146	100		
111	39.9	24.0	49.8
148	63.0	41.8	86.8

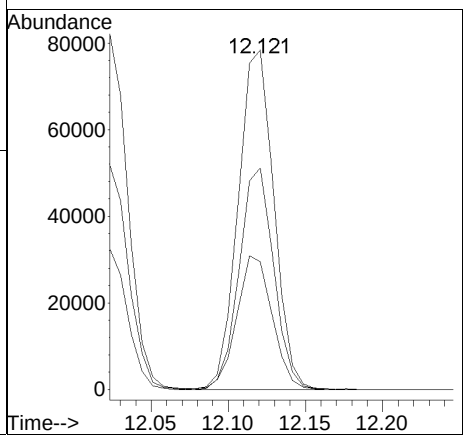


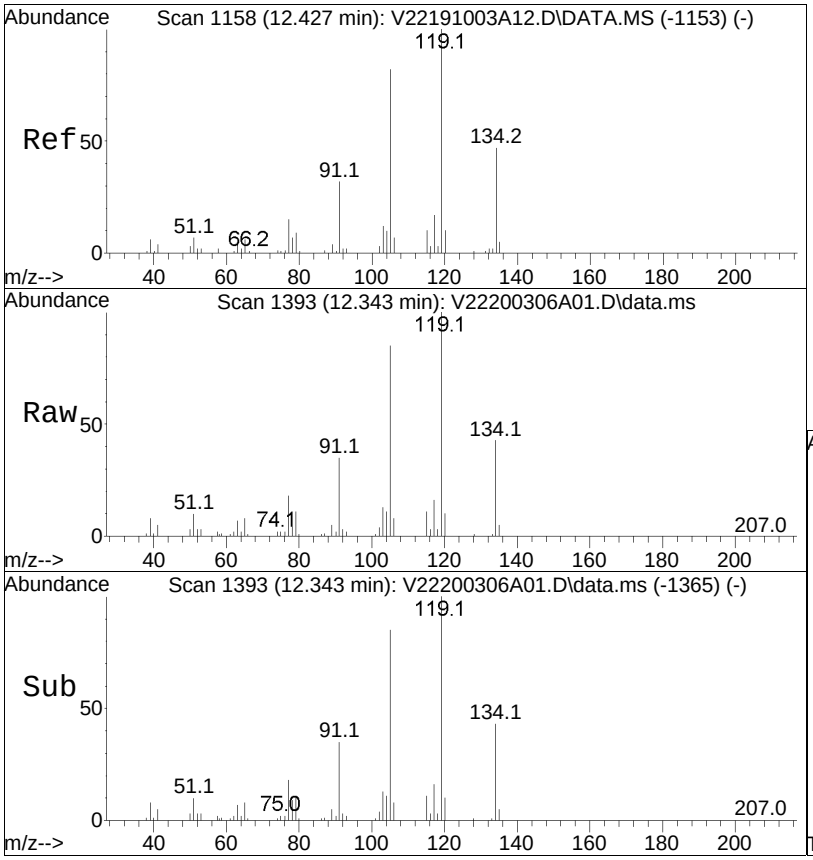


#105
1,4-Dichlorobenzene
Concen: 9.79 ug/L
RT: 12.121 min Scan# 1361
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:146 Resp: 126066

Ion	Ratio	Lower	Upper
146	100		
111	39.2	28.9	43.3
148	63.1	51.4	77.2

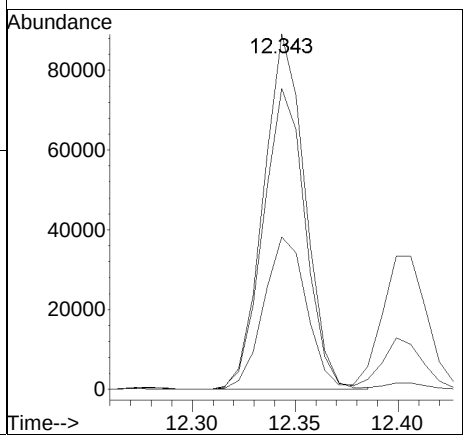


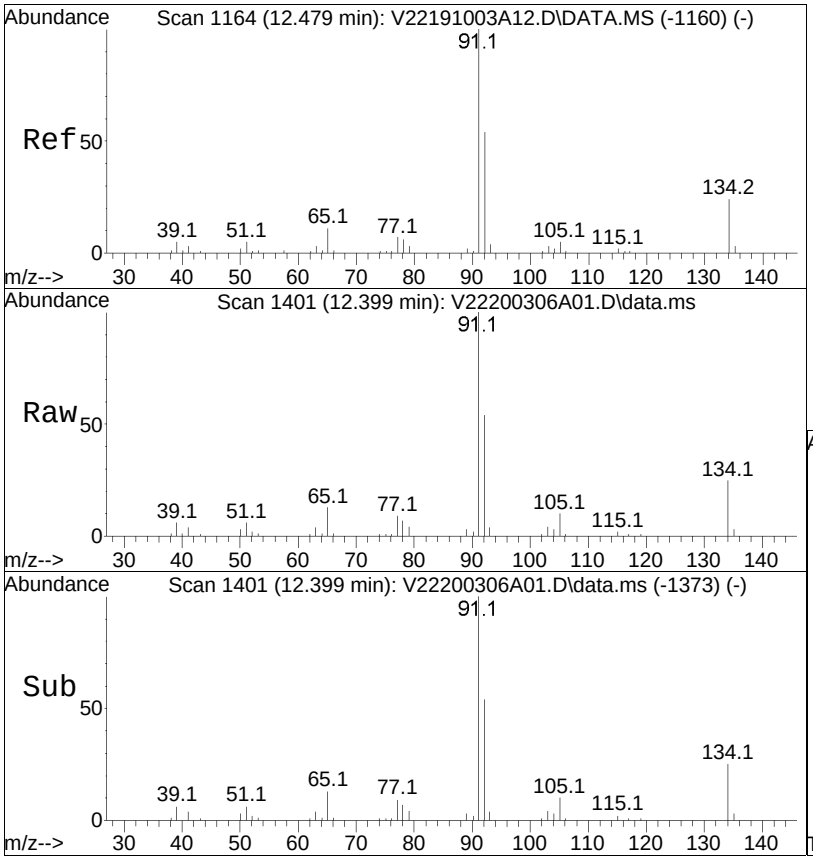


#106
p-Diethylbenzene
Concen: 9.69 ug/L
RT: 12.343 min Scan# 1393
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:119 Resp: 125197

Ion	Ratio	Lower	Upper
119	100		
105	86.0	53.4	110.8
134	44.3	30.9	64.1

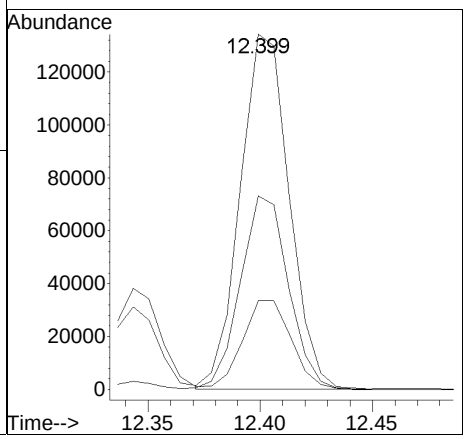


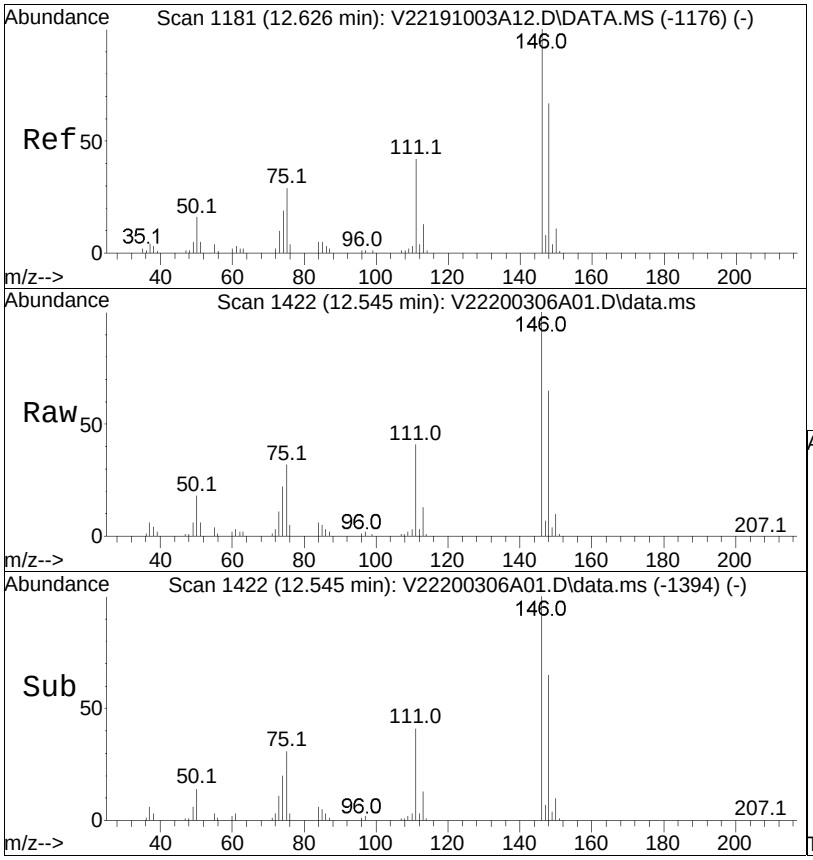


#107
n-Butylbenzene
Concen: 10.26 ug/L
RT: 12.399 min Scan# 1401
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion: 91 Resp: 203640

Ion	Ratio	Lower	Upper
91	100		
92	53.6	44.6	66.8
134	25.1	22.9	34.3

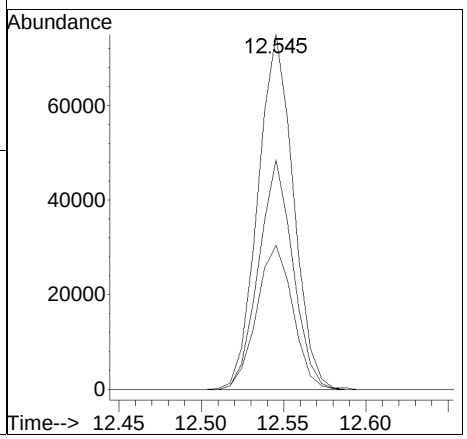


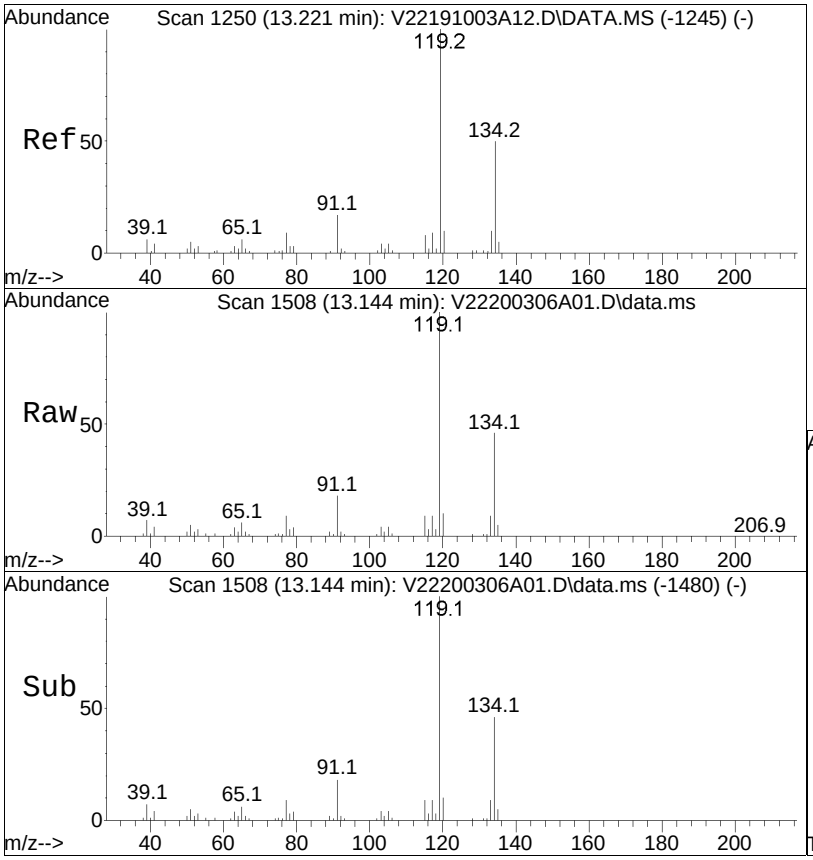


#108
1,2-Dichlorobenzene
Concen: 9.68 ug/L
RT: 12.545 min Scan# 1422
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:146 Resp: 112579

Ion	Ratio	Lower	Upper
146	100		
111	41.4	24.8	51.6
148	62.3	42.2	87.6

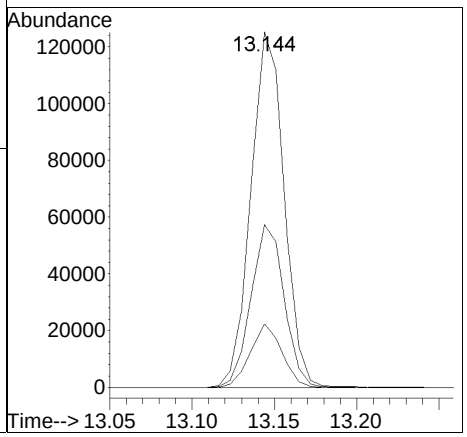


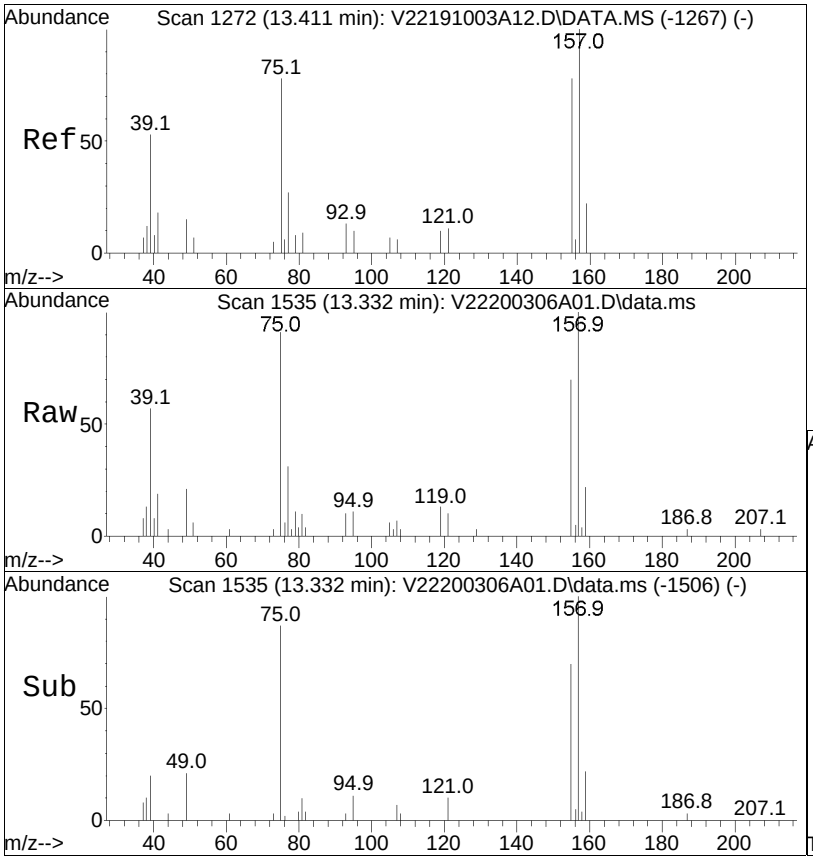


#109
1,2,4,5-Tetramethylbenzene
Concen: 10.17 ug/L
RT: 13.144 min Scan# 1508
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:119 Resp: 175818

Ion	Ratio	Lower	Upper
119	100		
134	45.8	31.9	66.1
91	17.0	9.8	20.3

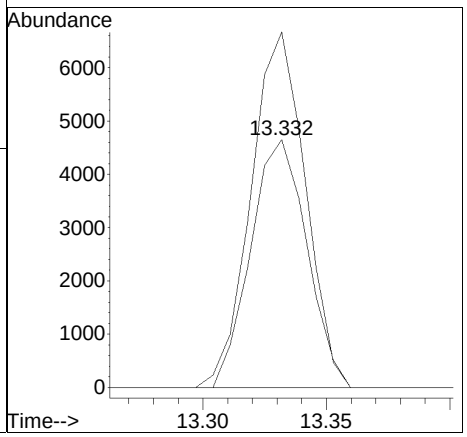


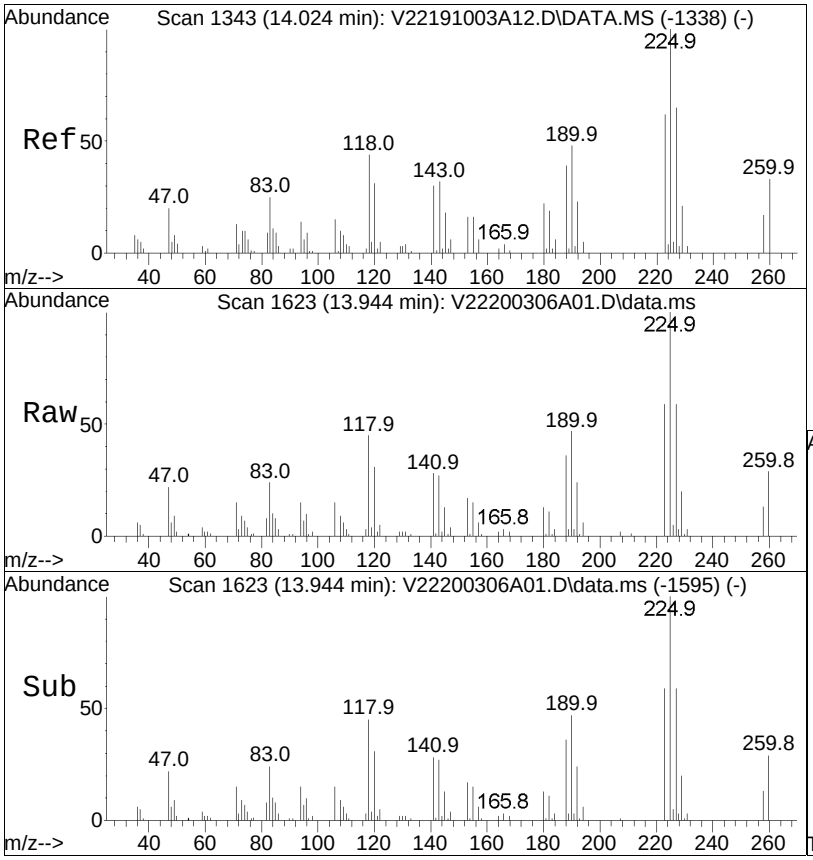


#110
1,2-Dibromo-3-chloropropane
Concen: 8.30 ug/L
RT: 13.332 min Scan# 1535
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:155 Resp: 7351

Ion	Ratio	Lower	Upper
155	100		
157	138.6	102.3	153.5

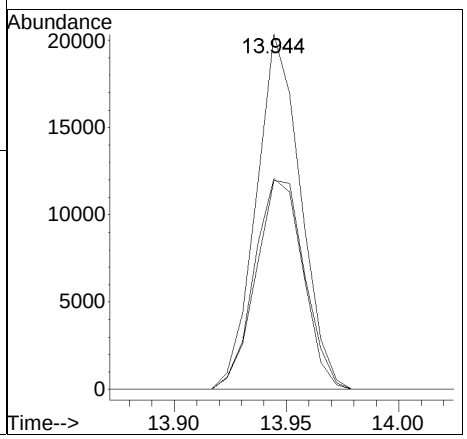


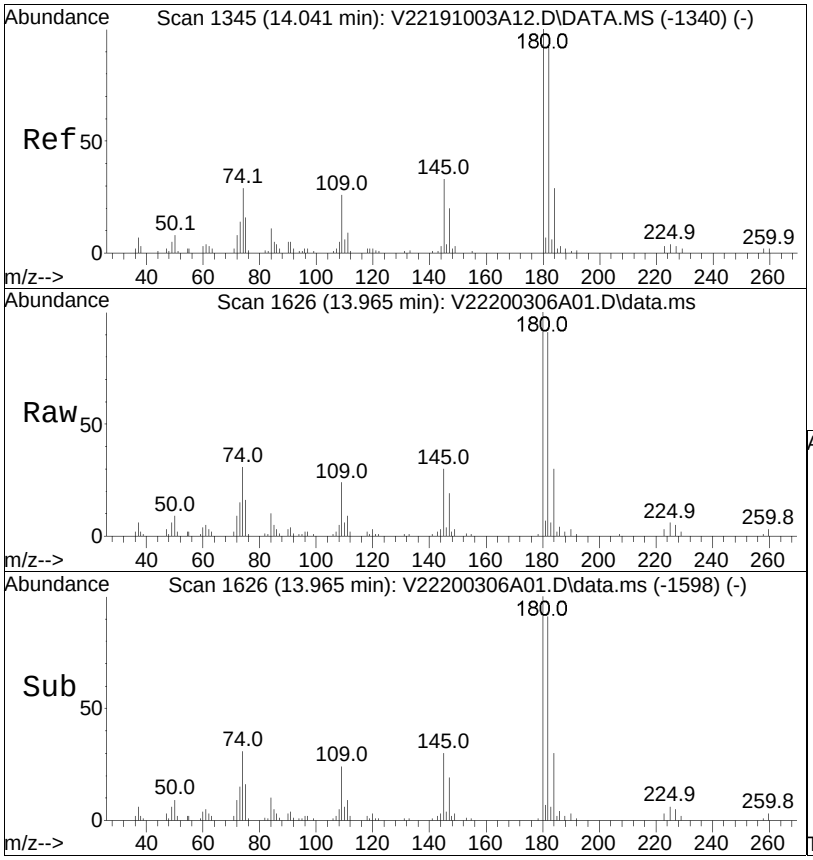


#112
Hexachlorobutadiene
Concen: 11.46 ug/L
RT: 13.944 min Scan# 1623
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:225 Resp: 28044

Ion	Ratio	Lower	Upper
225	100		
223	64.5	49.8	74.8
227	64.9	52.2	78.4

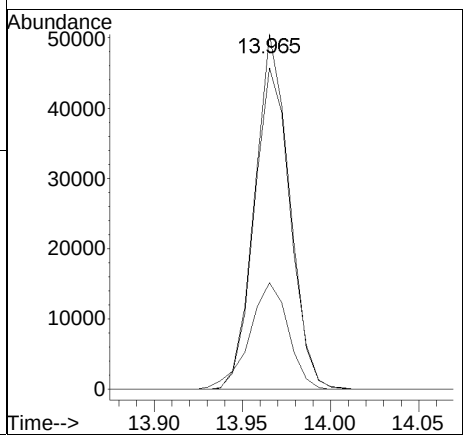


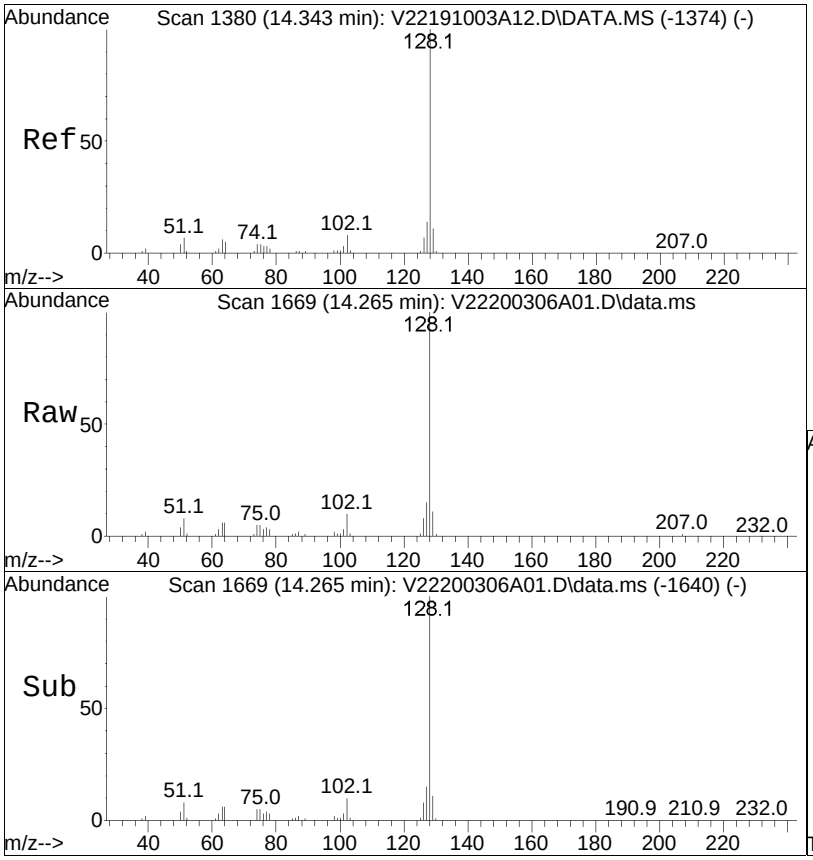


#113
1,2,4-Trichlorobenzene
Concen: 10.38 ug/L
RT: 13.965 min Scan# 1626
Delta R.T. -0.007 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:180 Resp: 69221

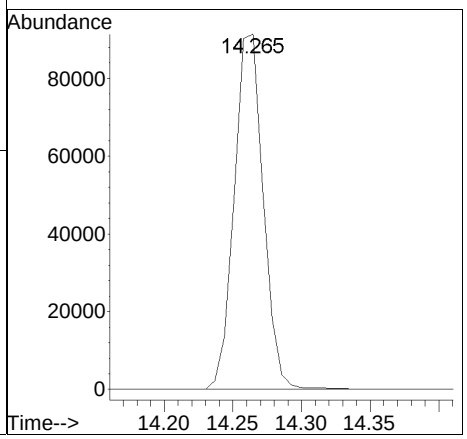
Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.6	114.8
145	33.7	25.5	38.3

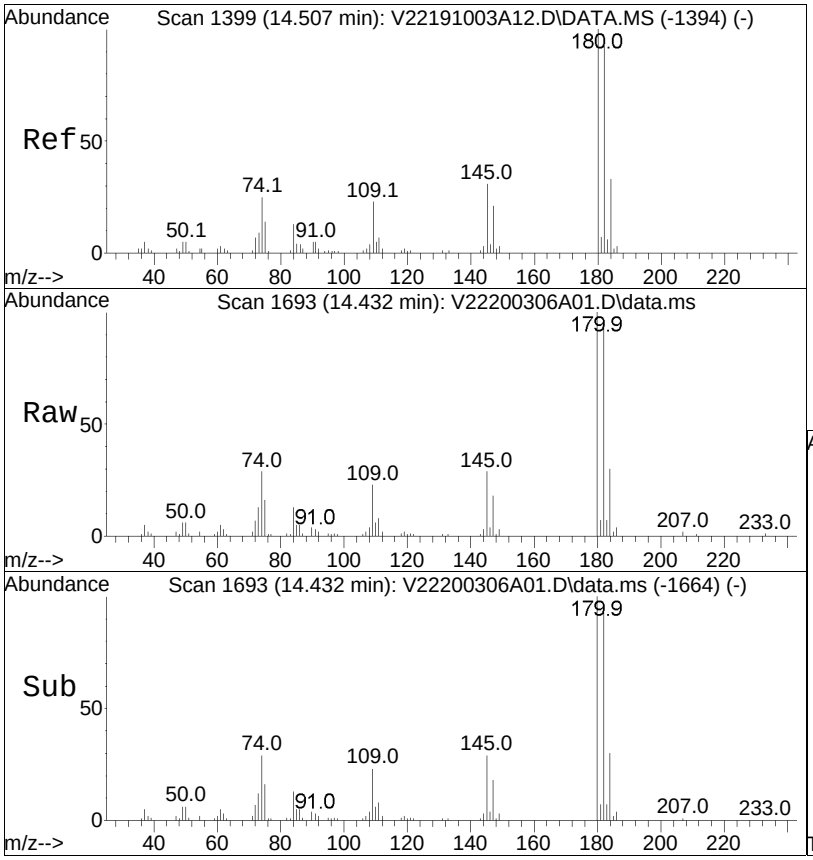




#114
Naphthalene
Concen: 8.73 ug/L
RT: 14.265 min Scan# 1669
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:128 Resp: 135021

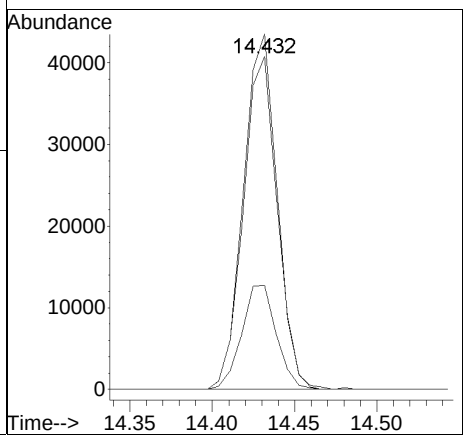




#115
1,2,3-Trichlorobenzene
Concen: 10.16 ug/L
RT: 14.432 min Scan# 1693
Delta R.T. -0.000 min
Lab File: V22200306A01.D
Acq: 06 Mar 2020 09:46 am

Tgt Ion:180 Resp: 62159

Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.0	114.0
145	30.1	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-3,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	235149	10.000	ug/L	0.00
Standard Area 1 = 235149			Recovery = 100.00%			
59) Chlorobenzene-d5	10.519	117	168234	10.000	ug/L	0.00
Standard Area 1 = 168234			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	13.324	152	84540	10.000	ug/L	0.00
Standard Area 1 = 84540			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.739	113	58629	9.679	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.79%			
43) 1,2-Dichloroethane-d4	6.323	65	63193	9.733	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.33%			
60) Toluene-d8	8.495	98	232868	9.689	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.89%			
83) 4-Bromofluorobenzene	12.030	95	86682	9.512	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	39382	9.299	ug/L	99
3) Chloromethane	2.034	50	74082	11.559	ug/L	99
4) Vinyl chloride	2.122	62	63293	10.566	ug/L	98
5) Bromomethane	2.465	94	23347	9.590	ug/L	98
6) Chloroethane	2.602	64	40931	11.779	ug/L	97
7) Trichlorofluoromethane	2.755	101	75034	10.739	ug/L	98
8) Ethyl ether	3.076	74	22528	11.298	ug/L	69
10) 1,1-Dichloroethene	3.289	96	47950	11.222	ug/L	84
11) Carbon disulfide	3.322	76	123777	10.691	ug/L	99
15) Methylene chloride	3.889	84	52915	11.865	ug/L	80
17) Acetone	3.928	43	13165	15.321	ug/L	94
18) trans-1,2-Dichloroethene	4.059	96	51485	11.322	ug/L	87
20) Methyl tert-butyl ether	4.157	73	108978	11.262	ug/L	92
23) 1,1-Dichloroethane	4.692	63	112193	11.493	ug/L	97
25) Acrylonitrile	4.741	53	12007	12.184	ug/L	96
27) Vinyl acetate	4.937	43	114967	11.662	ug/L	96
28) cis-1,2-Dichloroethene	5.259	96	62789	11.629	ug/L	85
29) 2,2-Dichloropropane	5.374	77	81576	12.014	ug/L	94
30) Bromochloromethane	5.472	128	25310	12.232	ug/L #	81
32) Chloroform	5.543	83	97797	11.511	ug/L	97

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-3,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	5.706	117	71727	10.466	ug/L		97
37) 1,1,1-Trichloroethane	5.772	97	86135	10.849	ug/L		97
39) 2-Butanone	5.865	43	15530	11.974	ug/L	#	42
40) 1,1-Dichloropropene	5.908	75	75126	11.046	ug/L		98
41) Benzene	6.176	78	206722	11.003	ug/L	#	92
44) 1,2-Dichloroethane	6.394	62	69043	11.707	ug/L		99
48) Trichloroethene	6.825	95	56959	11.002	ug/L		98
50) Dibromomethane	7.316	93	25266	11.339	ug/L		99
51) 1,2-Dichloropropane	7.431	63	61417	11.491	ug/L		96
54) Bromodichloromethane	7.502	83	66289	10.773	ug/L		98
57) 1,4-Dioxane	7.725	88	14796	677.371	ug/L	#	83
58) cis-1,3-Dichloropropene	8.260	75	82924	10.959	ug/L		95
61) Toluene	8.560	92	133589	11.002	ug/L		96
62) 4-Methyl-2-pentanone	9.018	58	12059	10.897	ug/L		96
63) Tetrachloroethene	9.057	166	54675	10.541	ug/L		100
65) trans-1,3-Dichloropropene	9.078	75	68512	10.747	ug/L		90
68) 1,1,2-Trichloroethane	9.291	83	30395	10.949	ug/L		98
69) Chlorodibromomethane	9.531	129	40816	10.018	ug/L		97
70) 1,3-Dichloropropane	9.651	76	63672	10.822	ug/L		99
71) 1,2-Dibromoethane	9.853	107	34698	10.808	ug/L		98
72) 2-Hexanone	10.137	43	20402	9.764	ug/L		96
73) Chlorobenzene	10.546	112	143555	11.058	ug/L		98
74) Ethylbenzene	10.573	91	248082	10.902	ug/L		100
75) 1,1,1,2-Tetrachloroethane	10.623	131	48778	10.318	ug/L		99
76) p/m Xylene	10.759	106	193825	21.945	ug/L		97
77) o Xylene	11.299	106	181852	22.014	ug/L		97
78) Styrene	11.370	104	300693	21.714	ug/L		99
80) Bromoform	11.403	173	20917	9.763	ug/L		98
82) Isopropylbenzene	11.687	105	236675	10.753	ug/L		99
84) Bromobenzene	12.156	156	53793	10.928	ug/L		99
85) n-Propylbenzene	12.183	91	263027	11.045	ug/L		98
87) 1,1,2,2-Tetrachloroethane	12.265	83	34953	10.458	ug/L		99
88) 4-Ethyltoluene	12.314	105	214115	10.994	ug/L		100
89) 2-Chlorotoluene	12.374	91	176634	11.172	ug/L		92
90) 1,3,5-Trimethylbenzene	12.412	105	187130	10.981	ug/L		100
91) 1,2,3-Trichloropropane	12.429	75	31528M1	10.017	ug/L		
92) trans-1,4-Dichloro-2-b...	12.467	53	11352	11.134	ug/L	#	15
93) 4-Chlorotoluene	12.565	91	168639	11.164	ug/L		97
94) tert-Butylbenzene	12.783	119	155854	10.813	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-3,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.860	105	185837	11.064	ug/L	99
98)	sec-Butylbenzene	12.985	105	192927	10.745	ug/L	98
99)	p-Isopropyltoluene	13.143	119	180605	10.871	ug/L	97
100)	1,3-Dichlorobenzene	13.242	146	103316	11.268	ug/L	99
101)	1,4-Dichlorobenzene	13.340	146	104984	11.300	ug/L	98
102)	p-Diethylbenzene	13.547	119	97496	10.949	ug/L	97
103)	n-Butylbenzene	13.613	91	137427	11.157	ug/L	99
104)	1,2-Dichlorobenzene	13.809	146	88616	10.979	ug/L	98
105)	1,2,4,5-Tetramethylben...	14.420	119	138194	10.300	ug/L	97
106)	1,2-Dibromo-3-chloropr...	14.666	155	3862	9.233	ug/L	95
108)	Hexachlorobutadiene	15.337	225	13218	10.449	ug/L	98
109)	1,2,4-Trichlorobenzene	15.375	180	37460	9.847	ug/L	98
110)	Naphthalene	15.741	128	73889	8.762	ug/L	100
111)	1,2,3-Trichlorobenzene	15.953	180	26495	9.053	ug/L	97

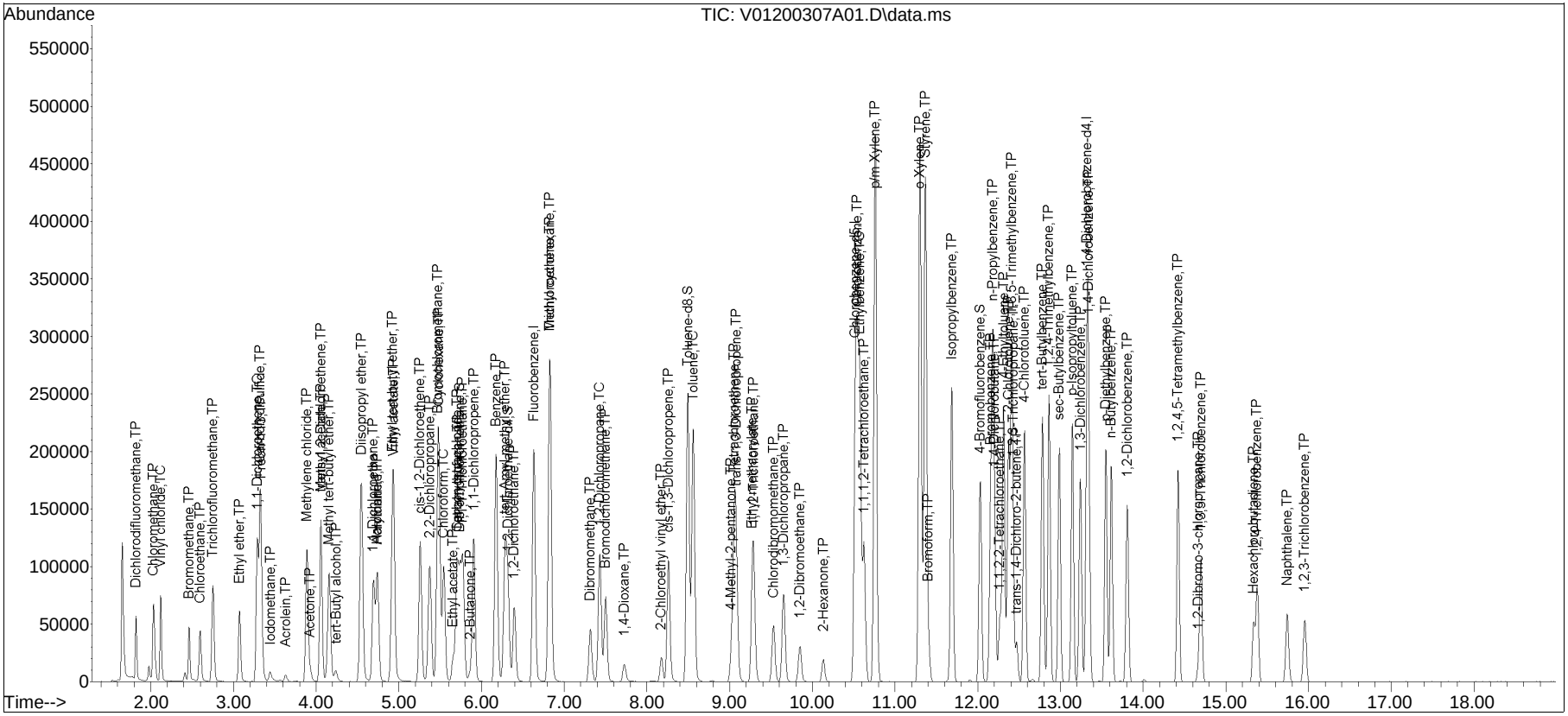
(#) = qualifier out of range (m) = manual integration (+) = signals summed

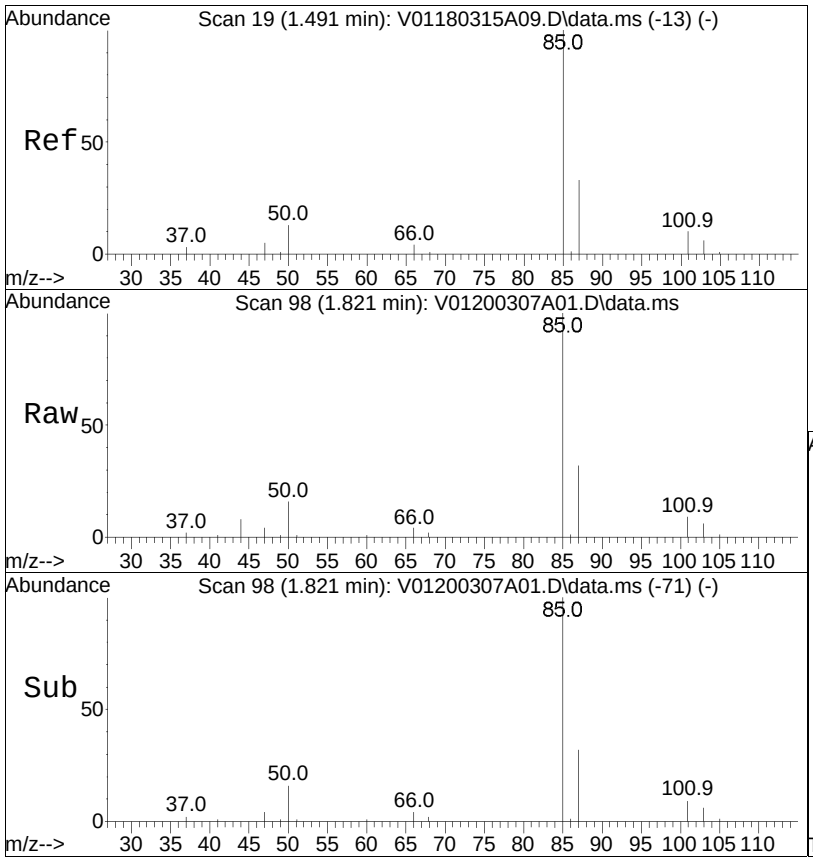
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A01.D
Acq On : 7 Mar 2020 9:31 am
Operator : VOA101:MKS
Sample : WG1348564-3,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 10:52:38 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox00307A\V01200307A01.D•

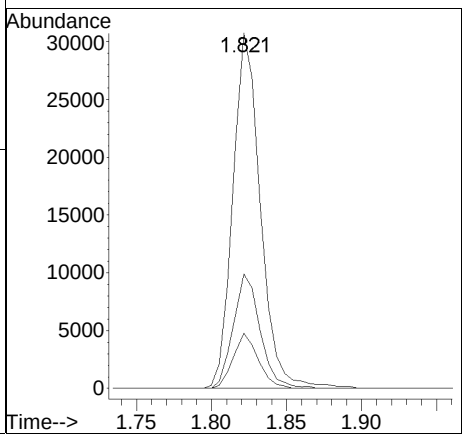


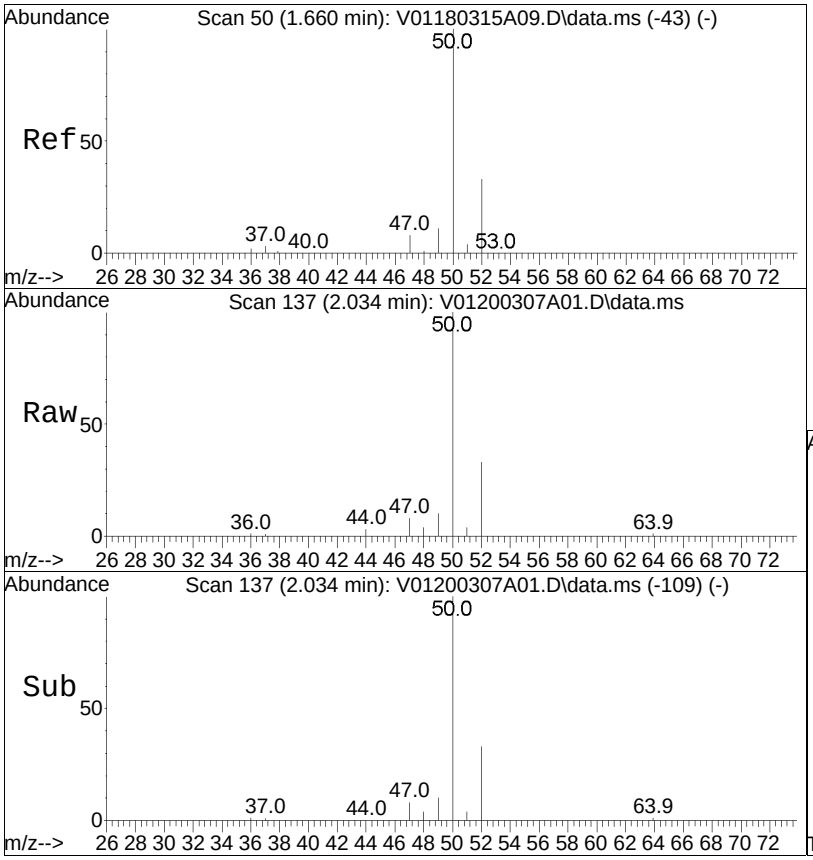


#2
Dichlorodifluoromethane
Concen: 9.30 ug/L
RT: 1.821 min Scan# 98
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 85 Resp: 39382

Ion	Ratio	Lower	Upper
85	100		
87	31.3	20.9	43.5
50	14.2	9.1	18.9

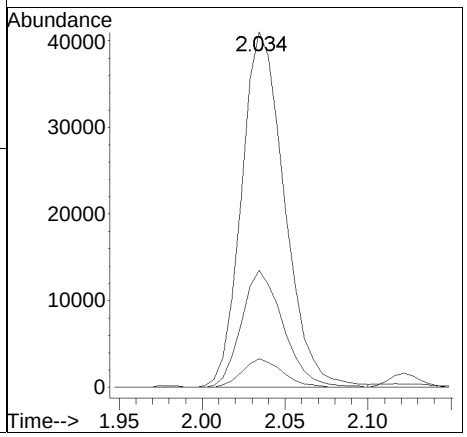


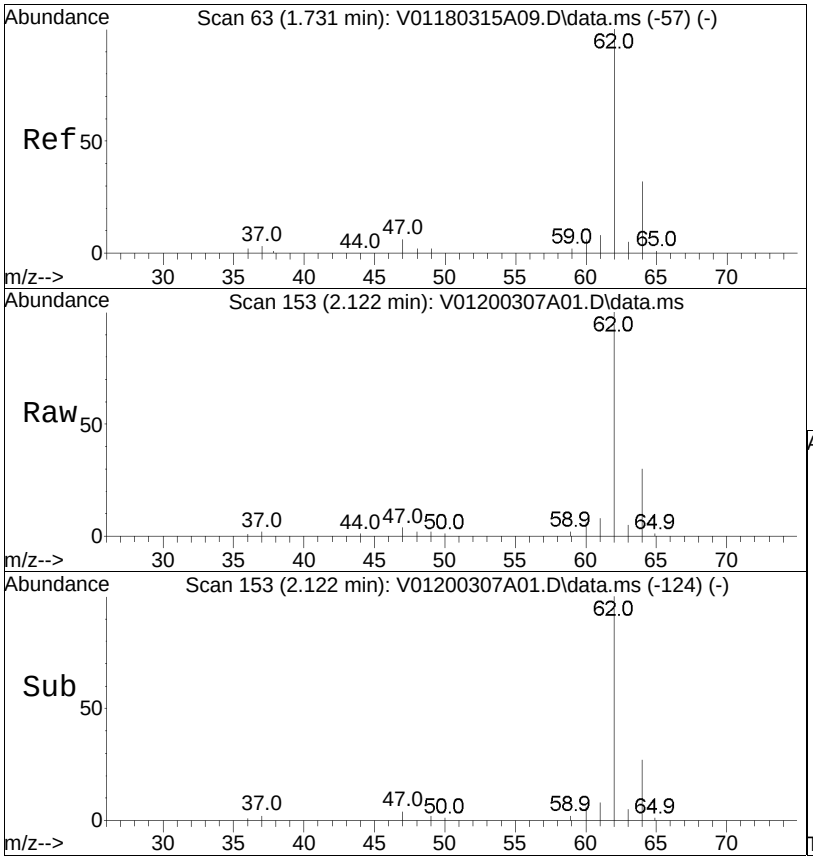


#3
Chloromethane
Concen: 11.56 ug/L
RT: 2.034 min Scan# 137
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 50 Resp: 74082

Ion	Ratio	Lower	Upper
50	100		
52	32.2	12.8	52.8
47	7.6	0.0	28.3

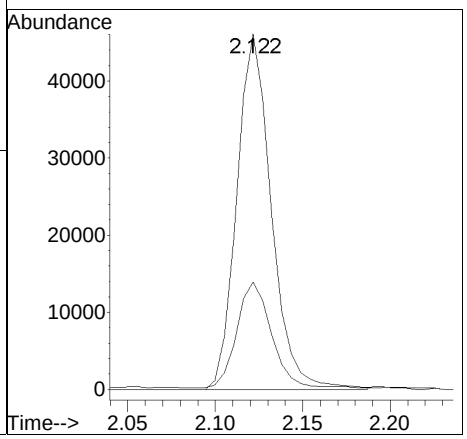


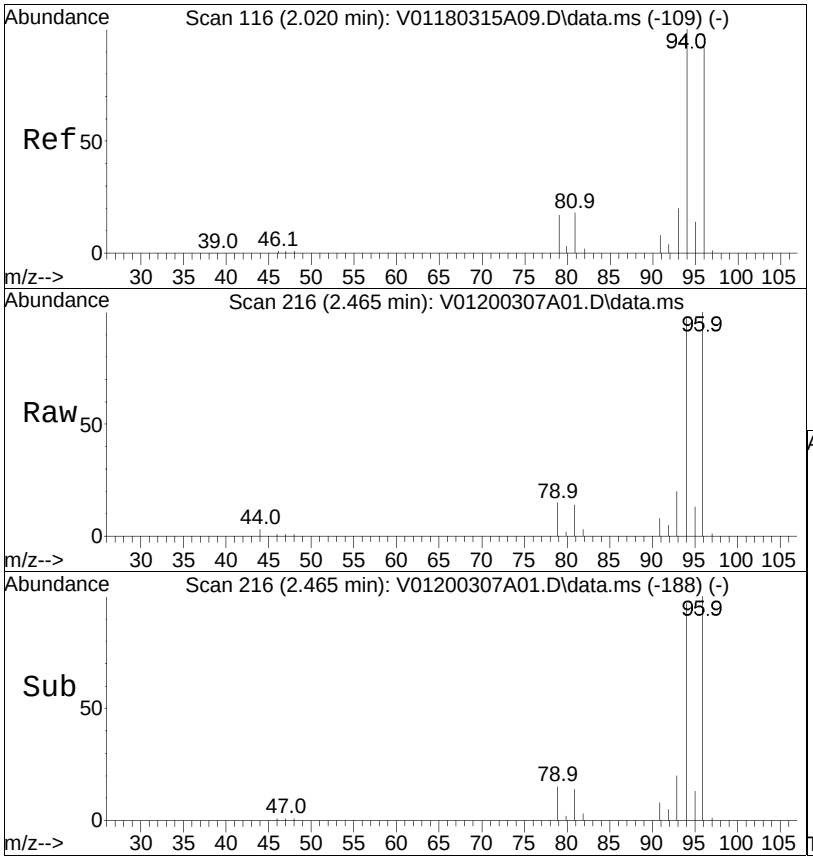


#4
Vinyl chloride
Concen: 10.57 ug/L
RT: 2.122 min Scan# 153
Delta R.T. 0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 62 Resp: 63293

Ion	Ratio	Lower	Upper
62	100		
64	29.7	10.8	50.8

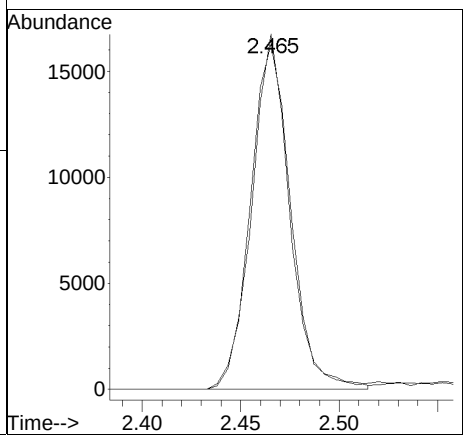


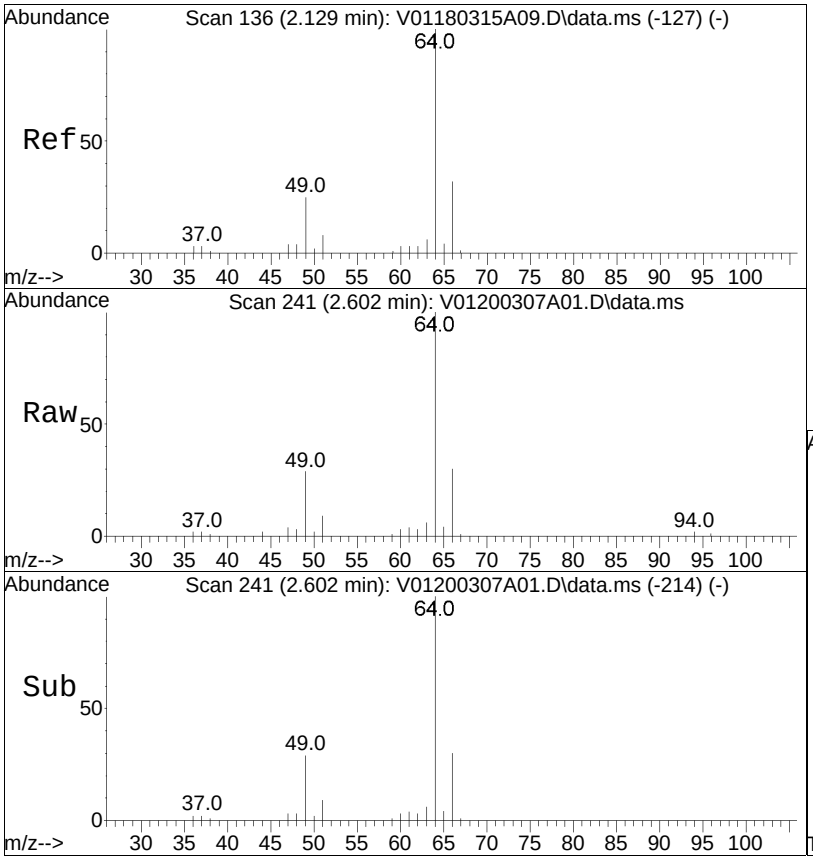


#5
Bromomethane
Concen: 9.59 ug/L
RT: 2.465 min Scan# 216
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 94 Resp: 23347

Ion	Ratio	Lower	Upper
94	100		
96	95.2	73.6	113.6

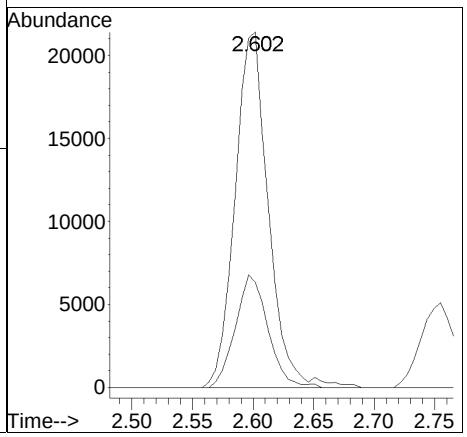


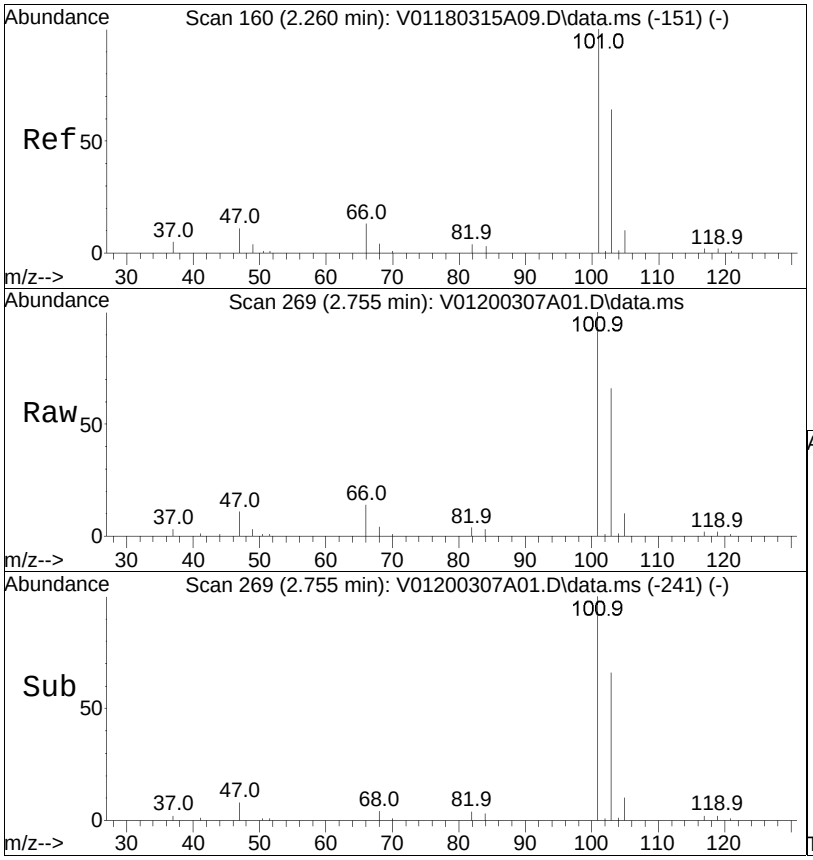


#6
Chloroethane
Concen: 11.78 ug/L
RT: 2.602 min Scan# 241
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 64 Resp: 40931

Ion	Ratio	Lower	Upper
64	100		
66	30.9	12.7	52.7

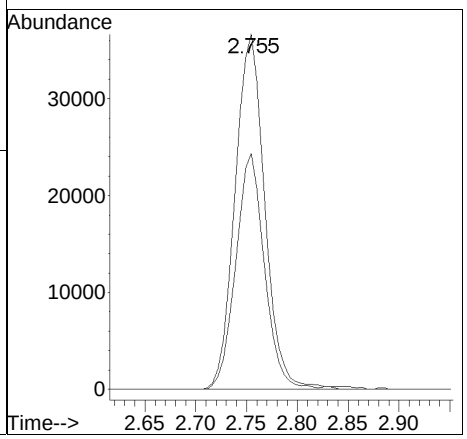


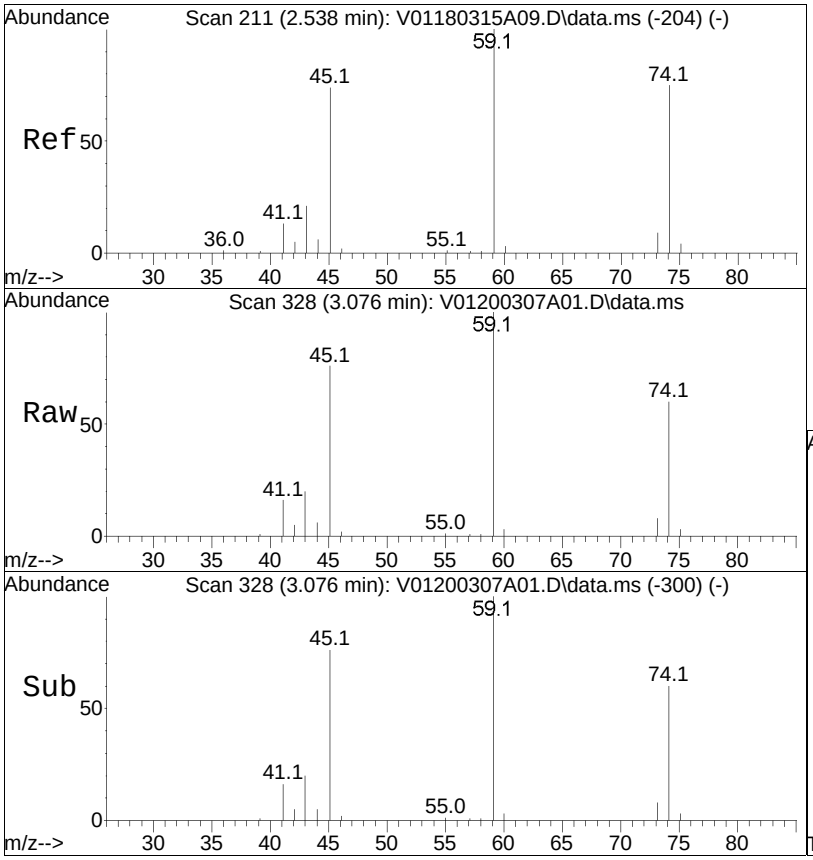


#7
Trichlorofluoromethane
Concen: 10.74 ug/L
RT: 2.755 min Scan# 269
Delta R.T. 0.001 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:101 Resp: 75034

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.3	78.5

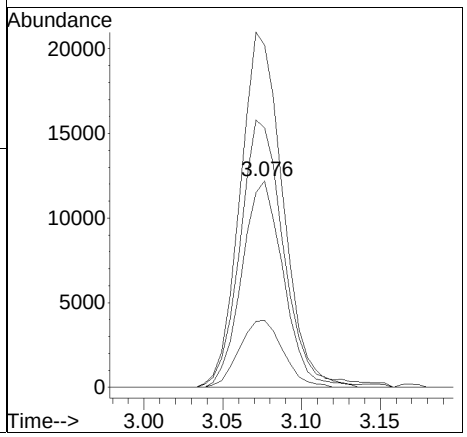


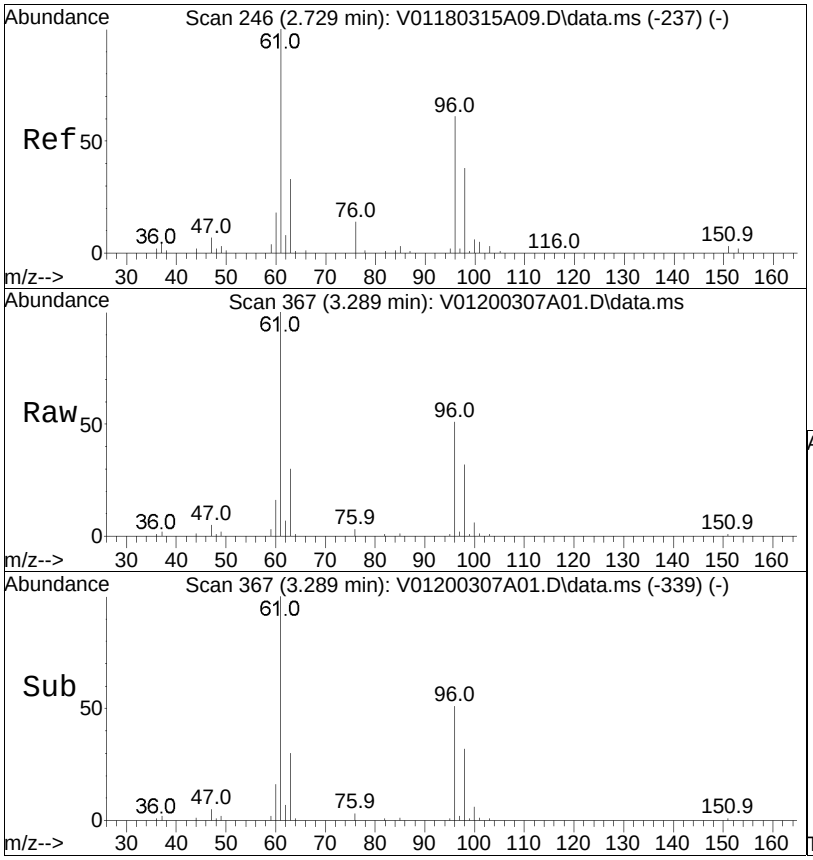


#8
Ethyl ether
Concen: 11.30 ug/L
RT: 3.076 min Scan# 328
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 74 Resp: 22528

Ion	Ratio	Lower	Upper
74	100		
59	177.8	88.1	182.9
45	134.3	66.1	137.3
43	34.1	19.7	40.9

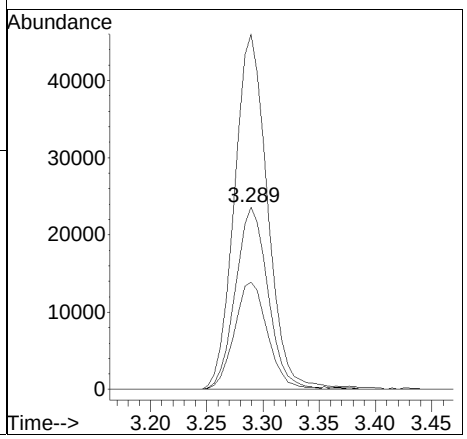


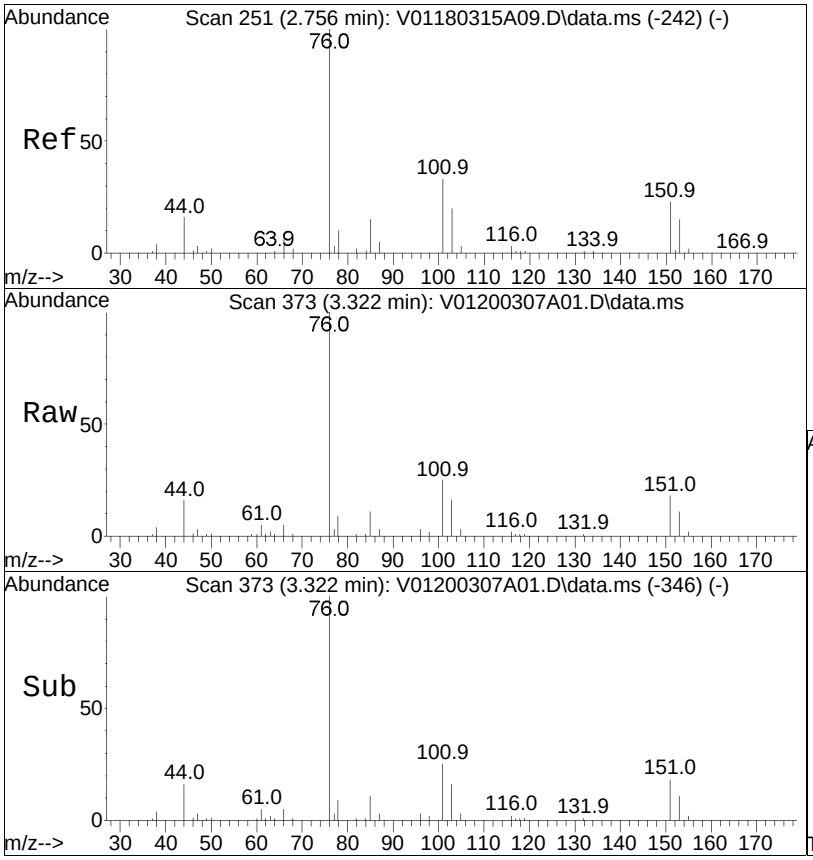


#10
1,1-Dichloroethene
Concen: 11.22 ug/L
RT: 3.289 min Scan# 367
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 96 Resp: 47950

Ion	Ratio	Lower	Upper
96	100		
61	197.5	136.8	205.2
63	59.6	43.6	65.4

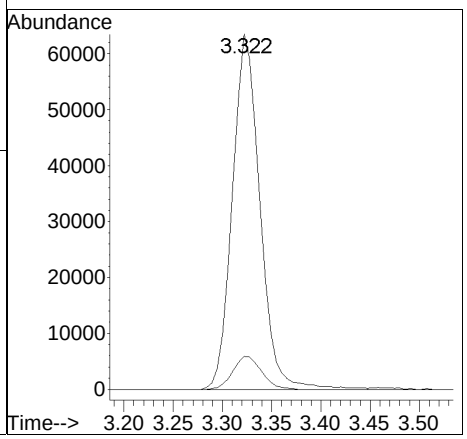


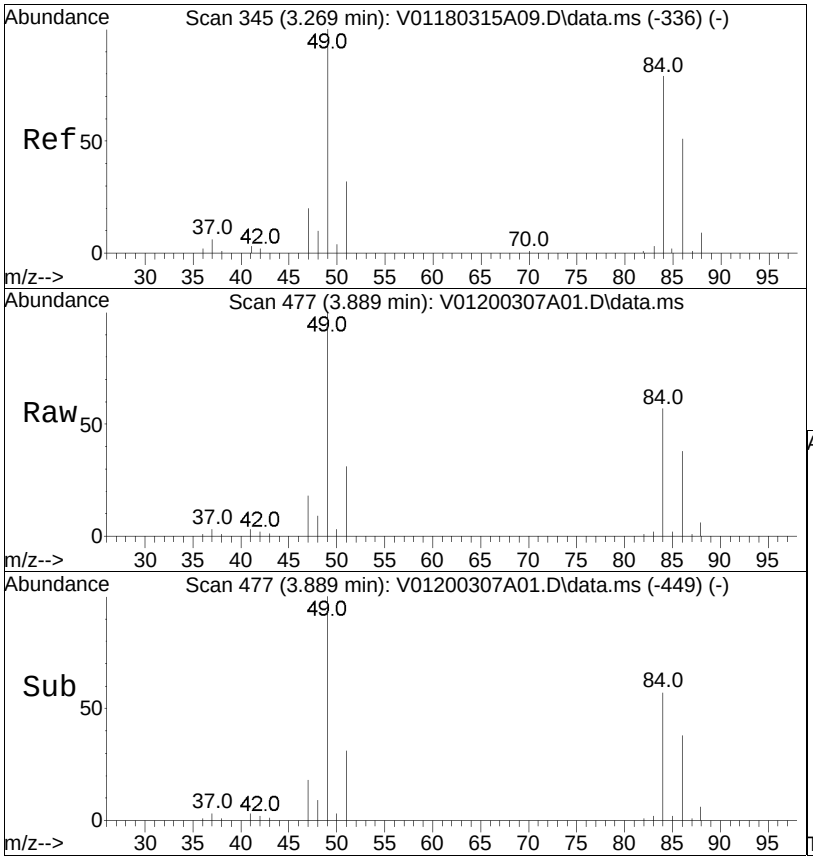


#11
Carbon disulfide
Concen: 10.69 ug/L
RT: 3.322 min Scan# 373
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 76 Resp: 123777

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.6	13.8

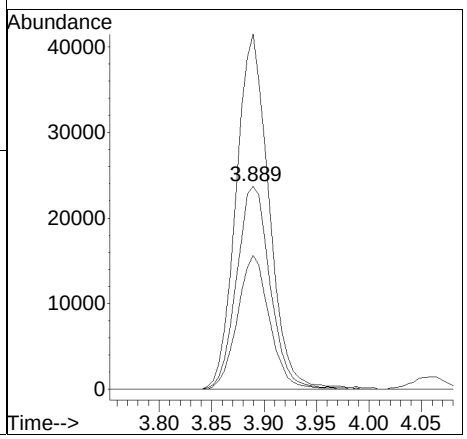


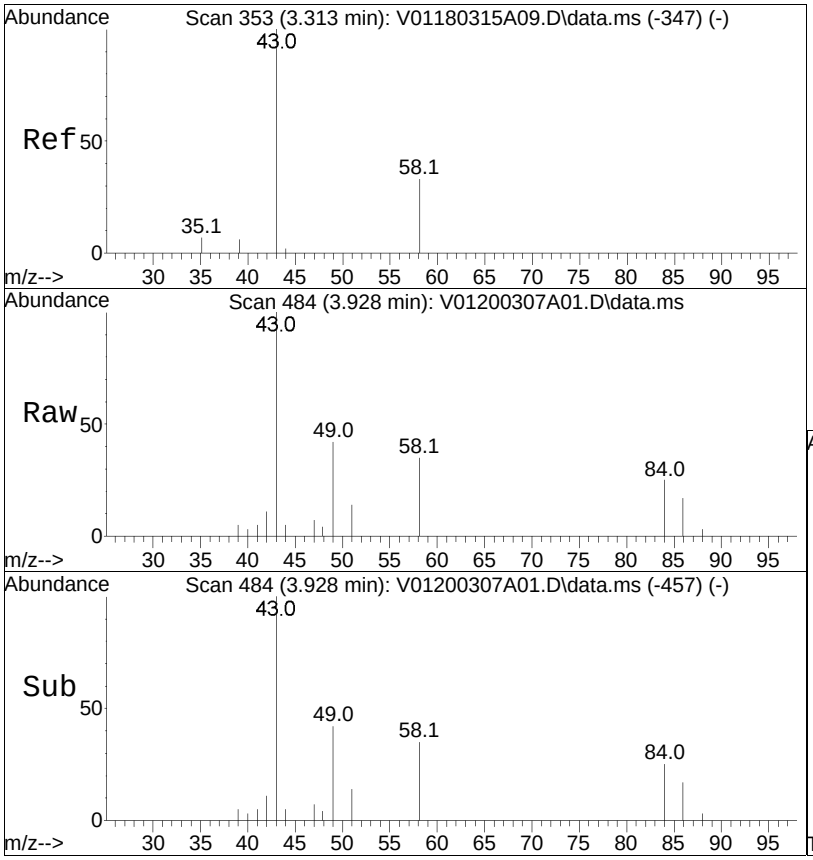


#15
Methylene chloride
Concen: 11.87 ug/L
RT: 3.889 min Scan# 477
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 84 Resp: 52915

Ion	Ratio	Lower	Upper
84	100		
86	63.1	41.7	86.7
49	171.3	89.1	185.1

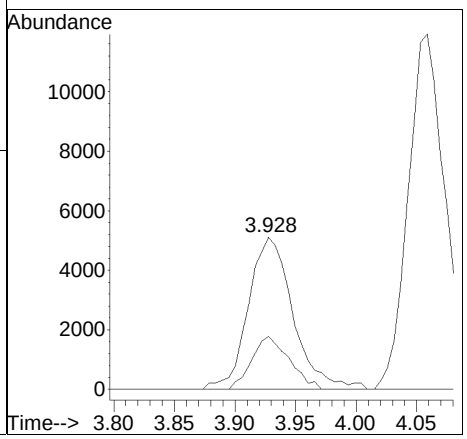


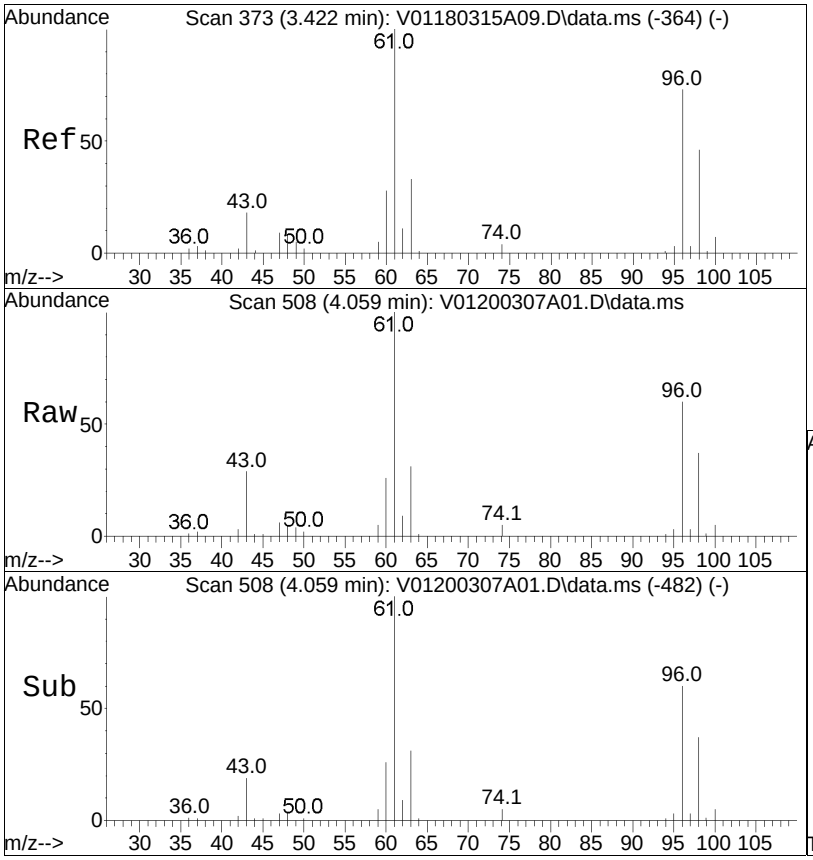


#17
Acetone
Concen: 15.32 ug/L
RT: 3.928 min Scan# 484
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 43 Resp: 13165

Ion	Ratio	Lower	Upper
43	100		
58	29.2	25.9	38.9

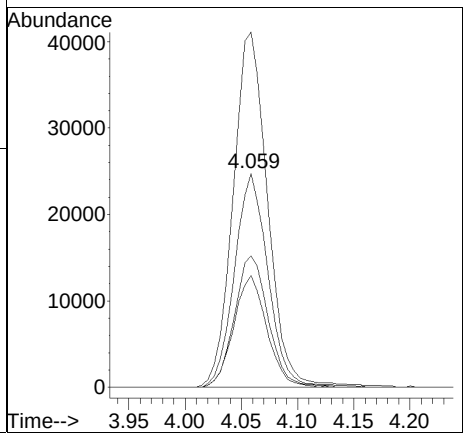


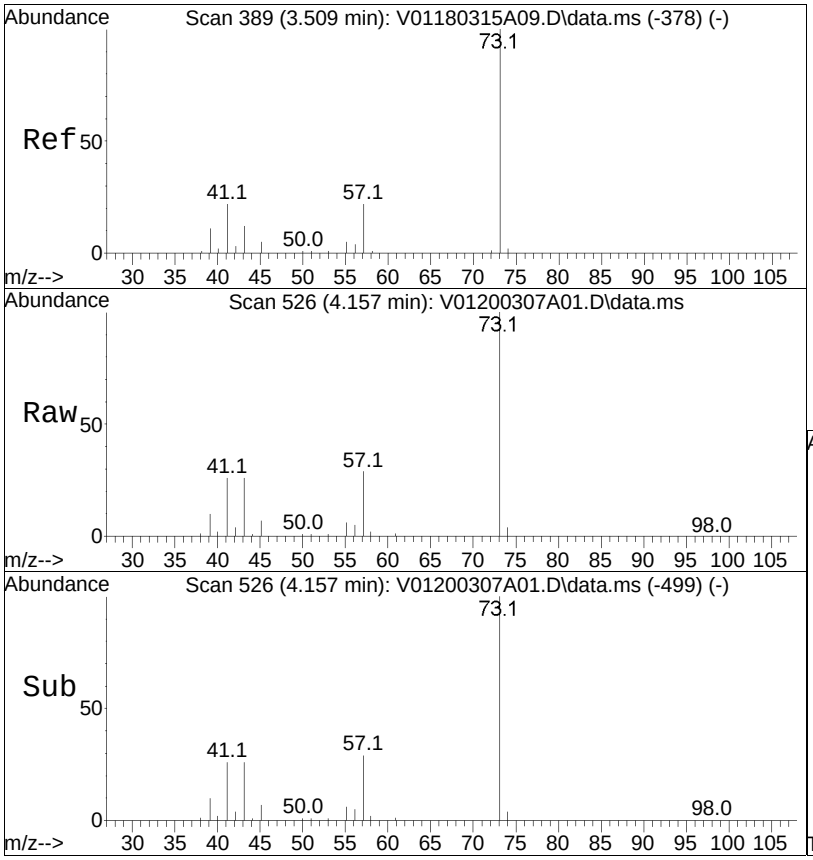


#18
trans-1,2-Dichloroethene
Concen: 11.32 ug/L
RT: 4.059 min Scan# 508
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 96 Resp: 51485

Ion	Ratio	Lower	Upper
96	100		
61	171.2	95.3	197.9
98	62.2	41.0	85.2
63	51.7	30.2	62.6

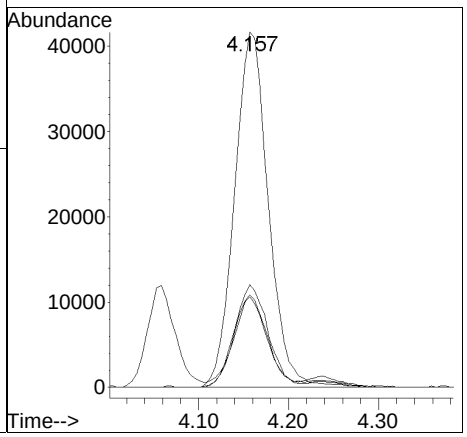


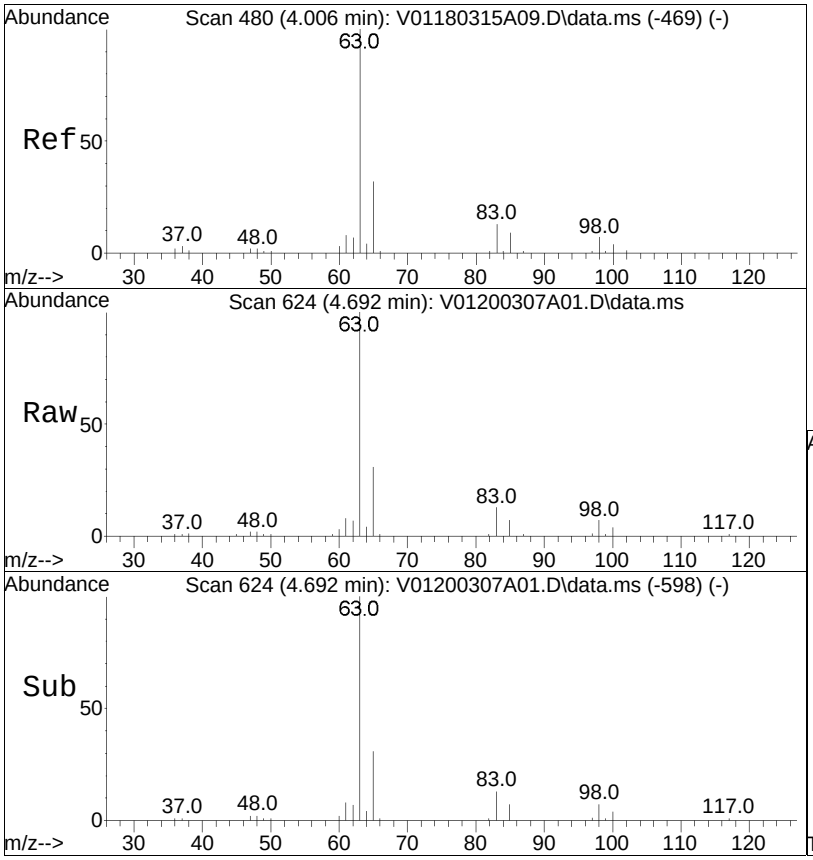


#20
Methyl tert-butyl ether
Concen: 11.26 ug/L
RT: 4.157 min Scan# 526
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 73 Resp: 108978

Ion	Ratio	Lower	Upper
73	100		
57	28.9	14.8	30.6
43	24.4	15.5	32.3
41	26.1	14.1	29.3

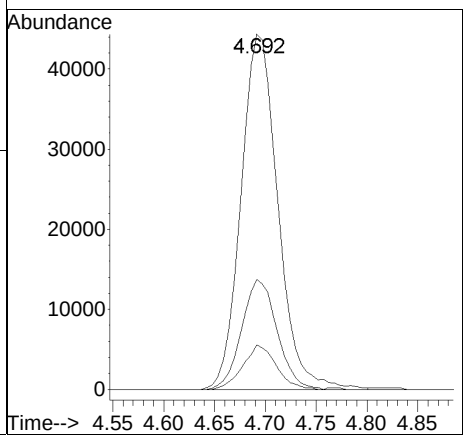


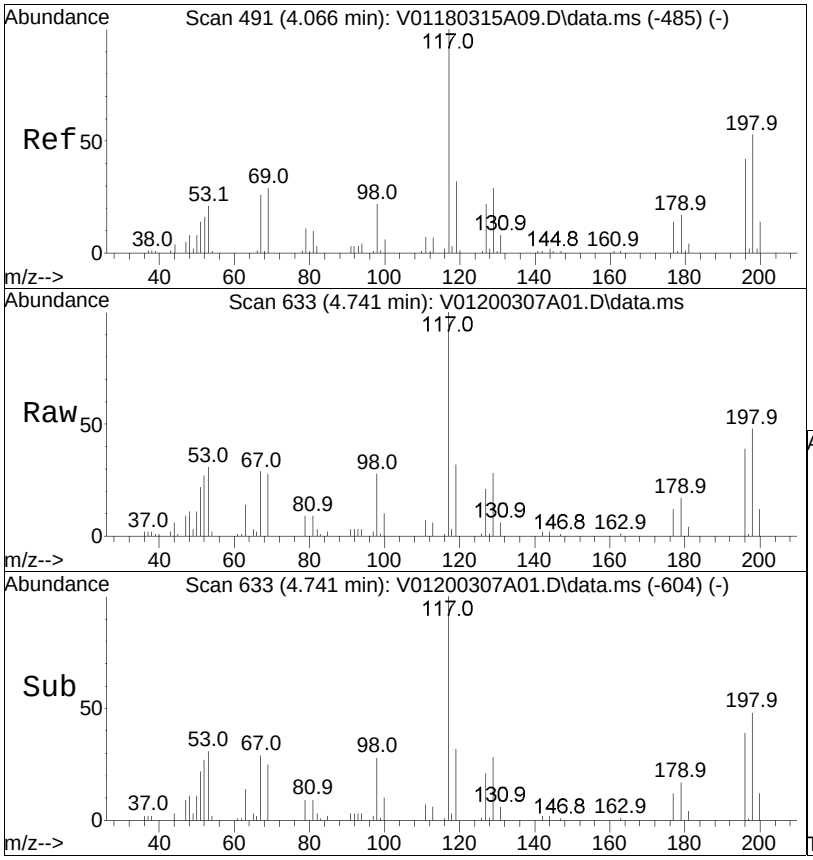


#23
1,1-Dichloroethane
Concen: 11.49 ug/L
RT: 4.692 min Scan# 624
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 63 Resp: 112193

Ion	Ratio	Lower	Upper
63	100		
65	29.6	10.9	50.9
83	11.3	0.0	33.0

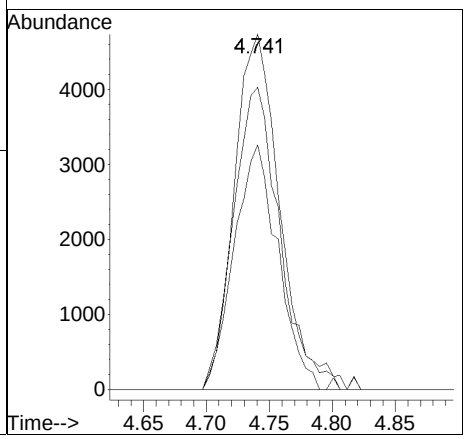


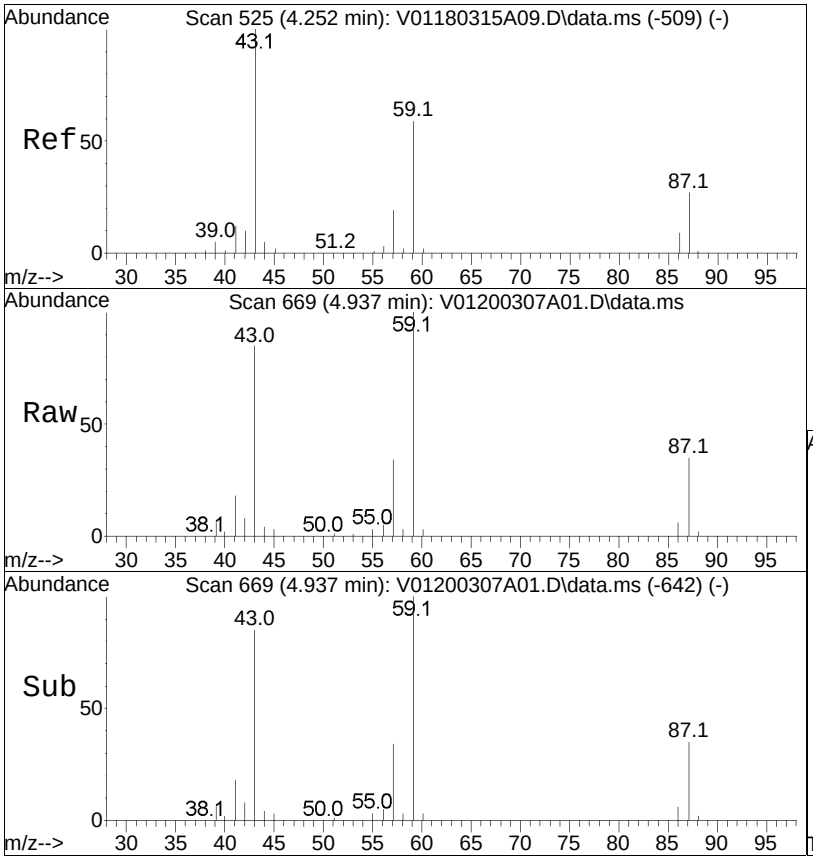


#25
Acrylonitrile
Concen: 12.18 ug/L
RT: 4.741 min Scan# 633
Delta R.T. 0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 53 Resp: 12007

Ion	Ratio	Lower	Upper
53	100		
52	85.2	69.1	103.7
51	66.0	58.3	87.5

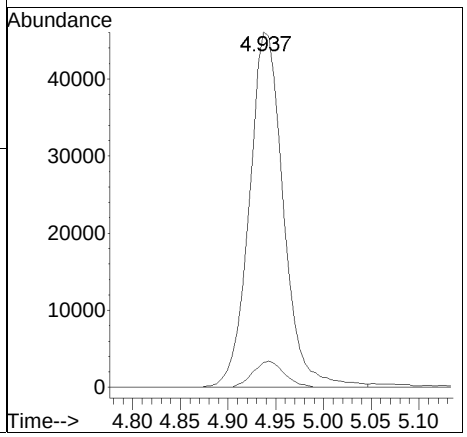


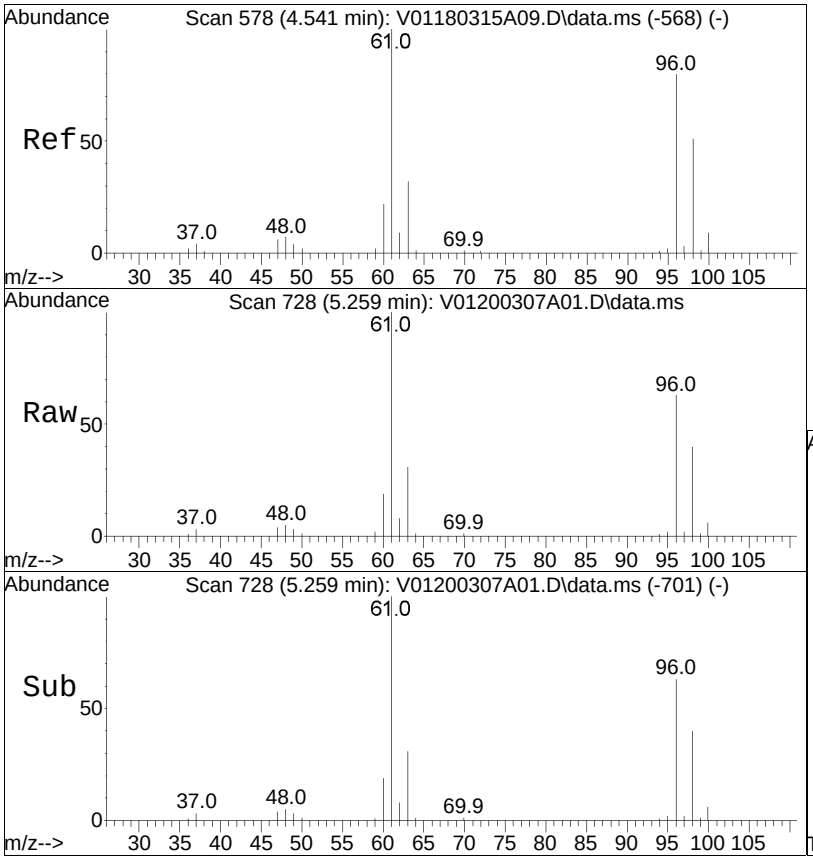


#27
Vinyl acetate
Concen: 11.66 ug/L
RT: 4.937 min Scan# 669
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 43 Resp: 114967

Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.6	9.8

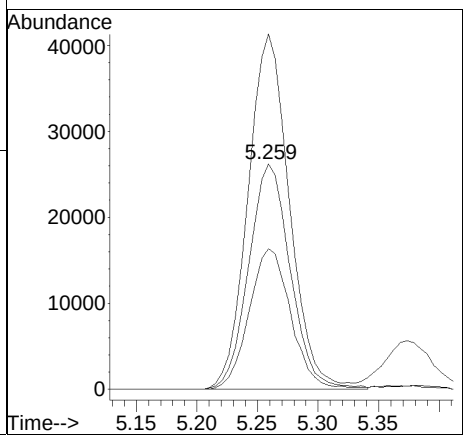


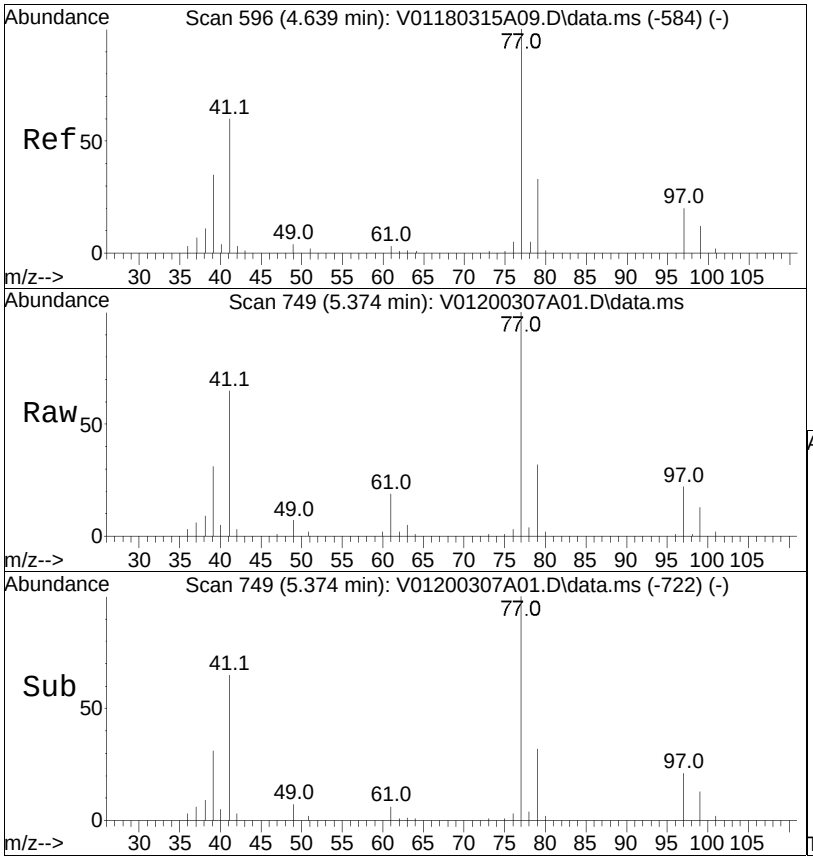


#28
cis-1,2-Dichloroethene
Concen: 11.63 ug/L
RT: 5.259 min Scan# 728
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 96 Resp: 62789

Ion	Ratio	Lower	Upper
96	100		
61	156.6	105.8	158.6
98	62.4	51.1	76.7

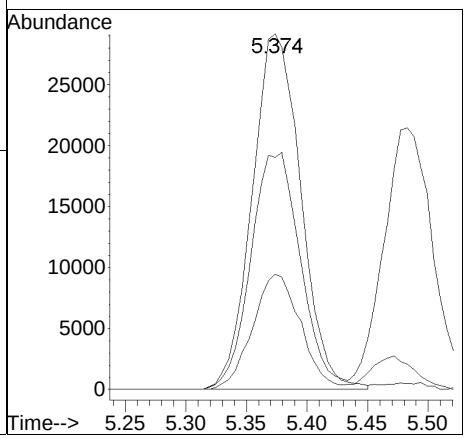


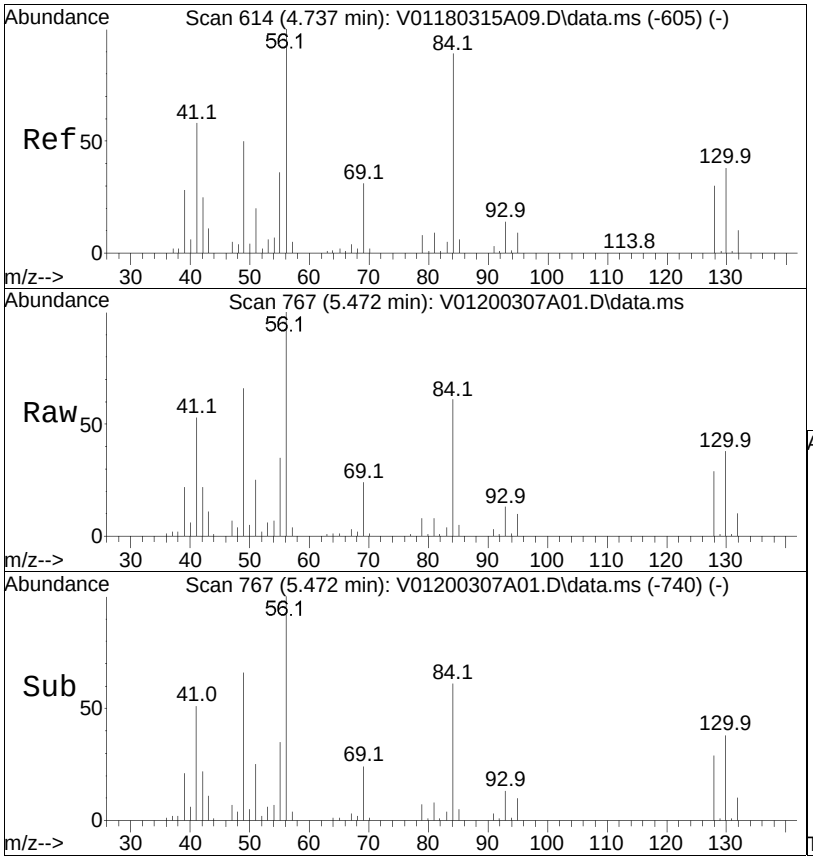


#29
2,2-Dichloropropane
Concen: 12.01 ug/L
RT: 5.374 min Scan# 749
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 77 Resp: 81576

Ion	Ratio	Lower	Upper
77	100		
41	68.0	39.6	82.3
79	31.8	20.9	43.3

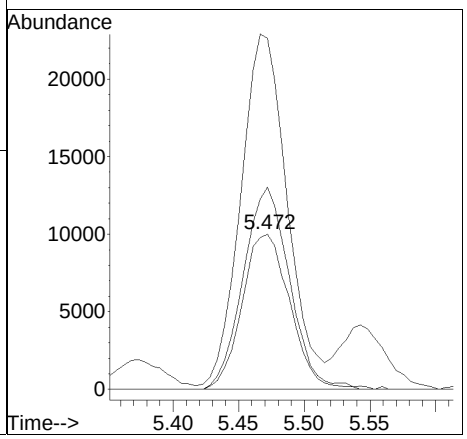


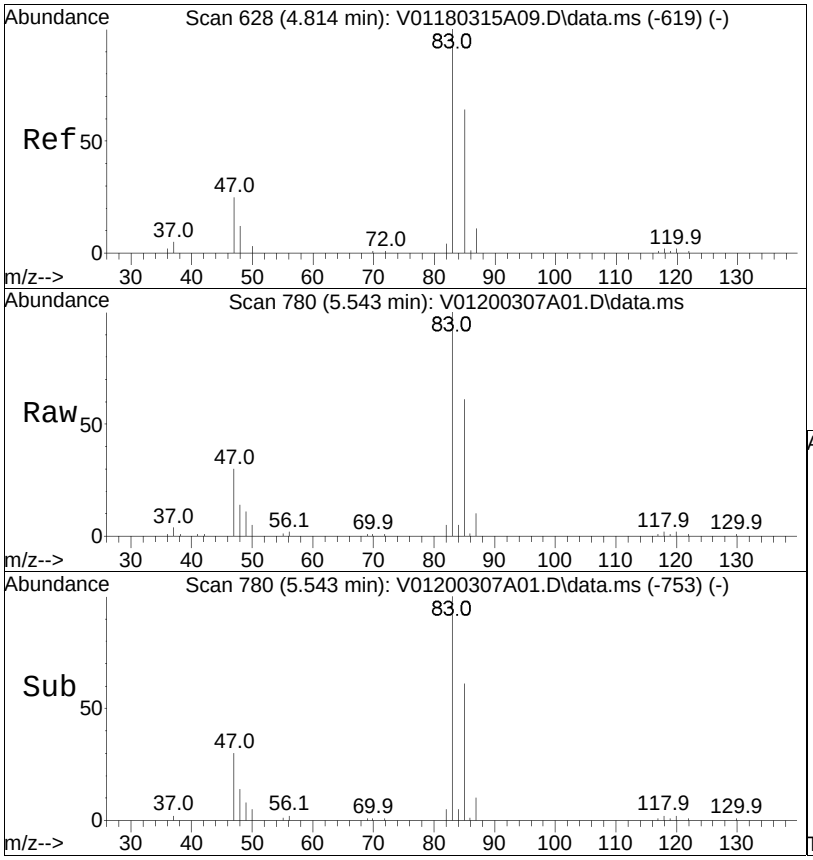


#30
Bromochloromethane
Concen: 12.23 ug/L
RT: 5.472 min Scan# 767
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:128 Resp: 25310

Ion	Ratio	Lower	Upper
128	100		
49	221.0	140.4	210.6#
130	127.1	103.1	154.7

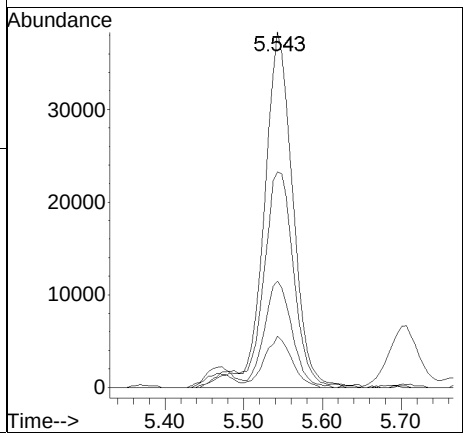


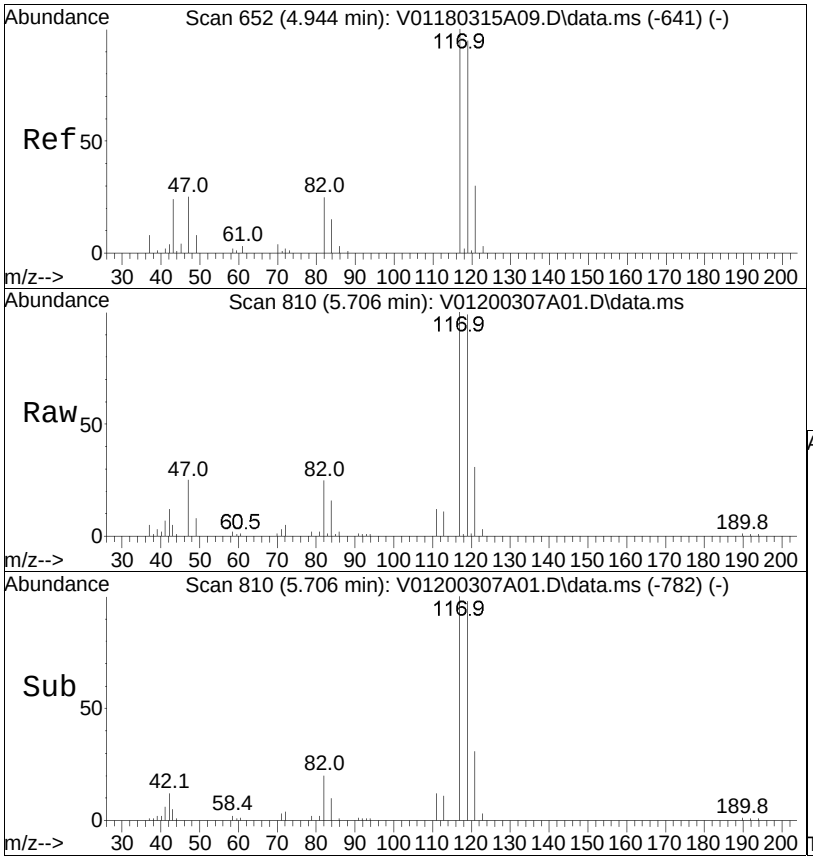


#32
Chloroform
Concen: 11.51 ug/L
RT: 5.543 min Scan# 780
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 83 Resp: 97797

Ion	Ratio	Lower	Upper
83	100		
85	62.6	42.3	87.8
47	28.6	17.8	37.0
48	13.8	9.3	19.3

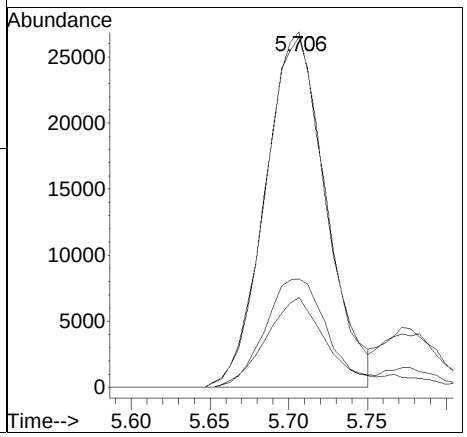


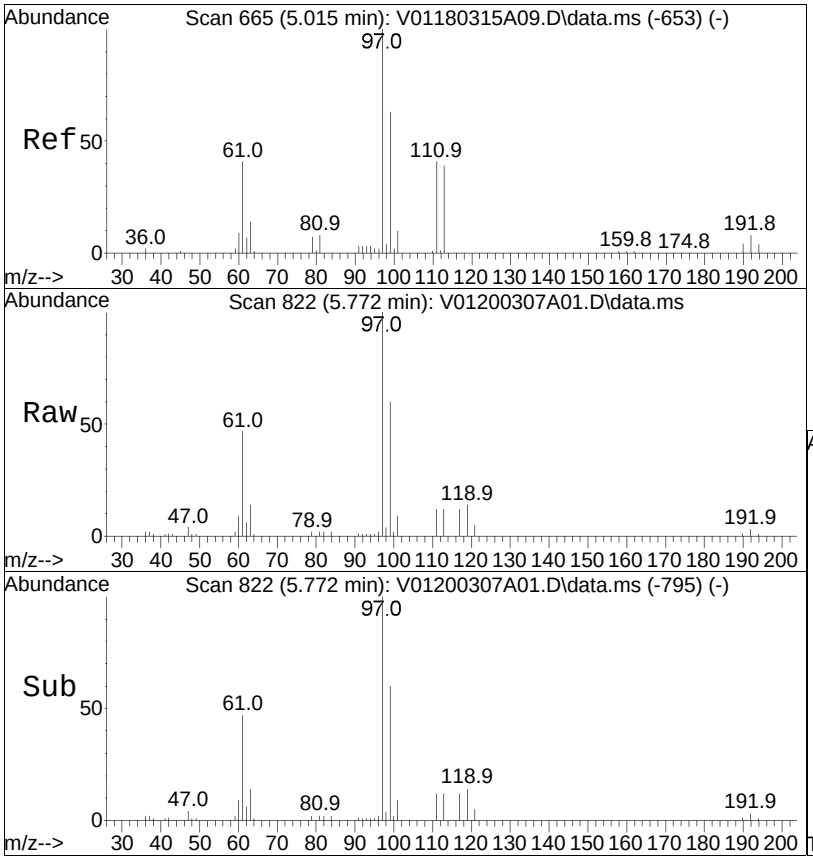


#34
Carbon tetrachloride
Concen: 10.47 ug/L
RT: 5.706 min Scan# 810
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:117 Resp: 71727

Ion	Ratio	Lower	Upper
117	100		
119	99.1	62.1	128.9
121	31.6	19.8	41.0
82	25.3	17.1	35.5

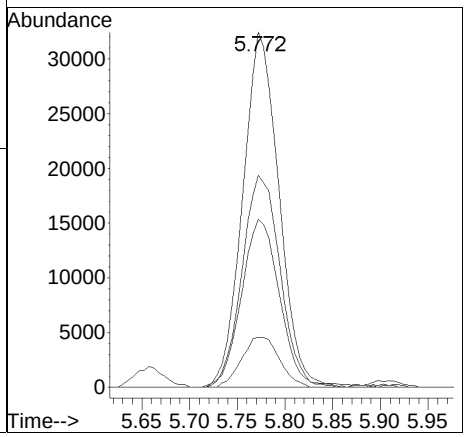


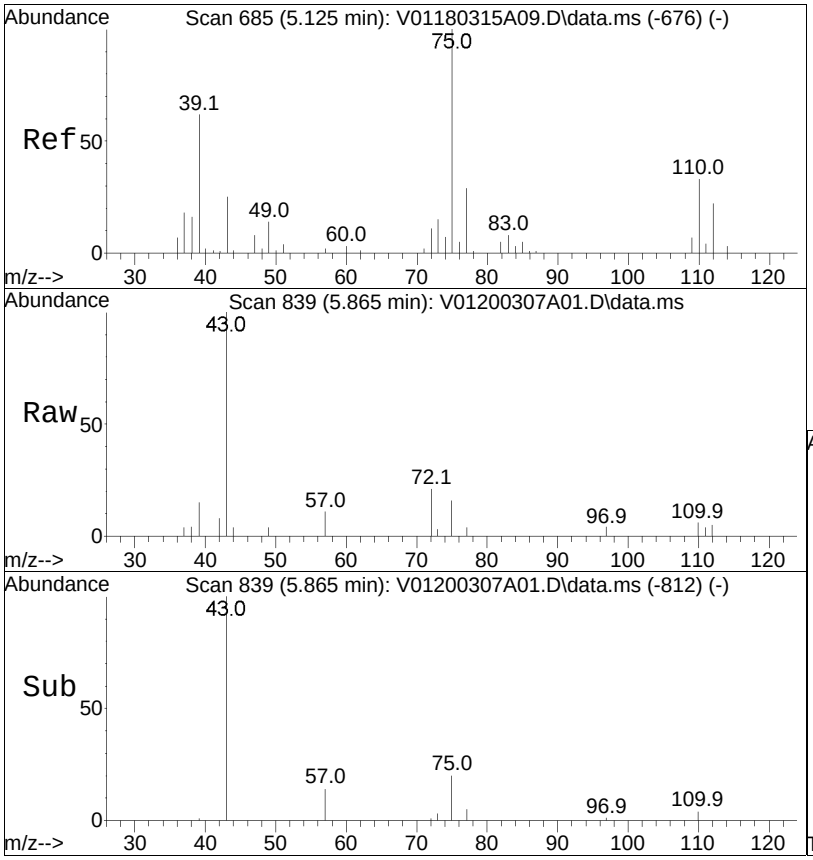


#37
1,1,1-Trichloroethane
Concen: 10.85 ug/L
RT: 5.772 min Scan# 822
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 97 Resp: 86135

Ion	Ratio	Lower	Upper
97	100		
99	62.6	41.7	86.7
61	49.5	29.4	61.2
63	14.8	9.4	19.4

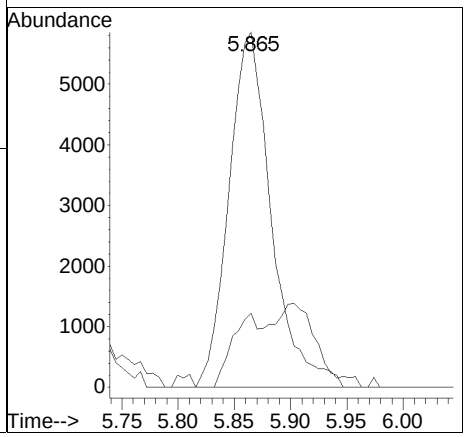


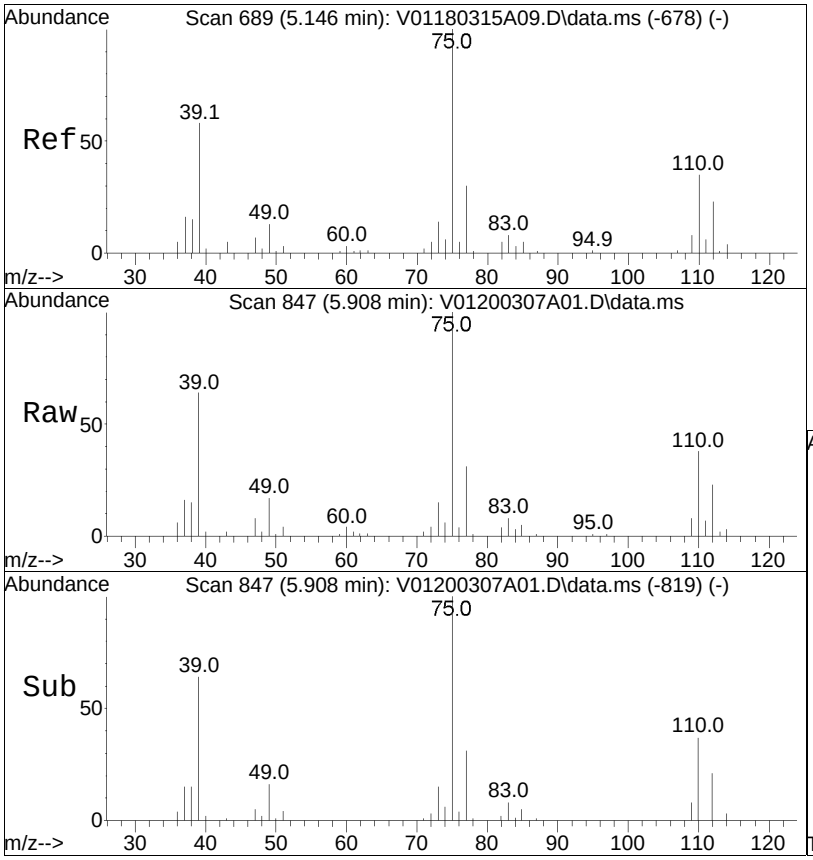


#39
2-Butanone
Concen: 11.97 ug/L
RT: 5.865 min Scan# 839
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 43 Resp: 15530

Ion	Ratio	Lower	Upper
43	100		
72	14.4	45.8	68.6#

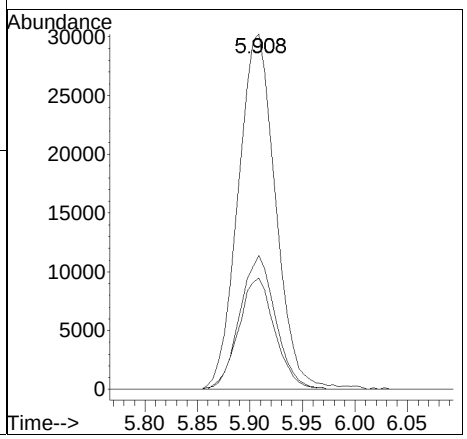


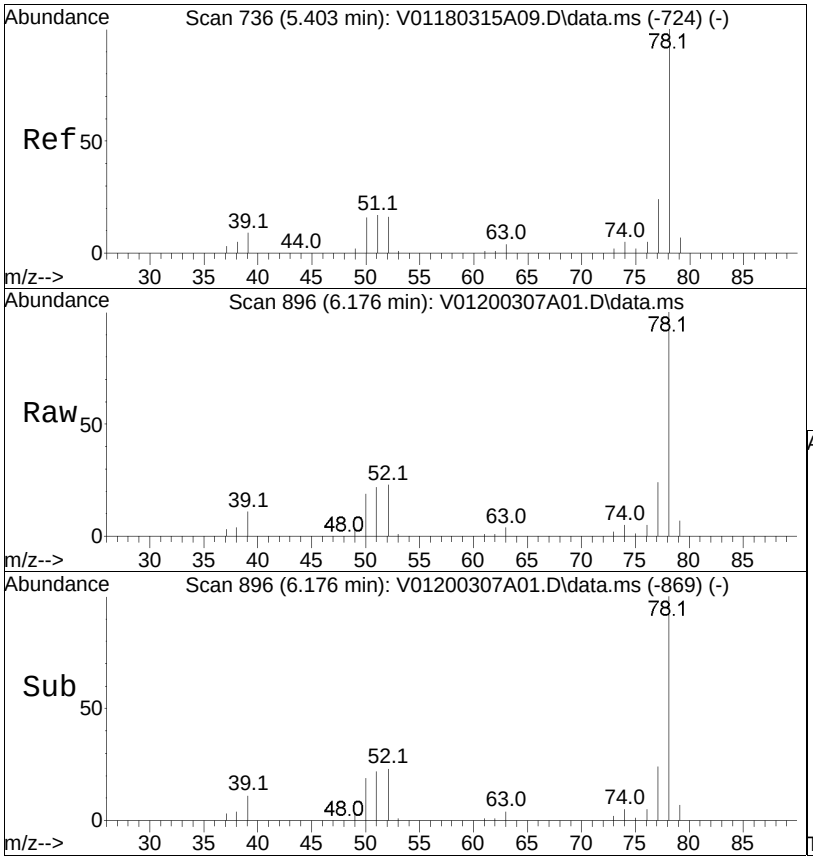


#40
1,1-Dichloropropene
Concen: 11.05 ug/L
RT: 5.908 min Scan# 847
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 75 Resp: 75126

Ion	Ratio	Lower	Upper
75	100		
110	36.0	22.2	46.2
77	30.4	20.2	42.0

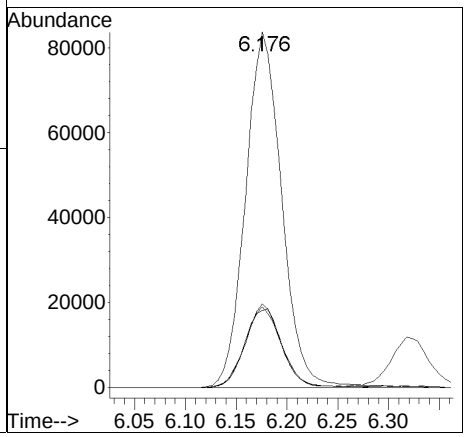


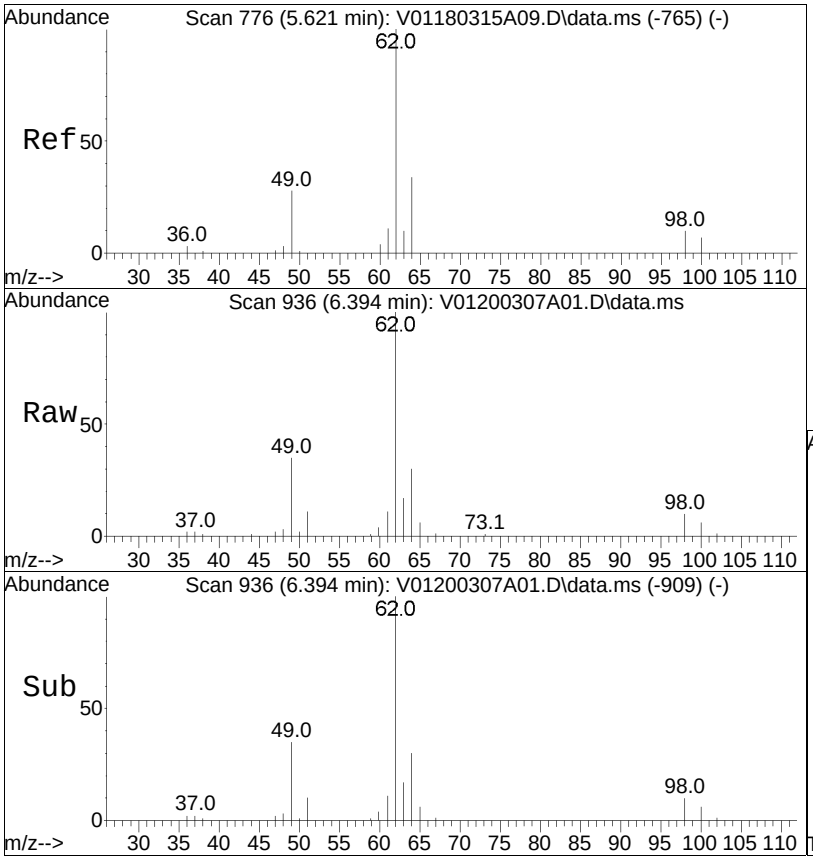


#41
Benzene
Concen: 11.00 ug/L
RT: 6.176 min Scan# 896
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 78 Resp: 206722

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.7	32.5
51	23.0	11.6	24.2
52	22.7	10.9	22.5#

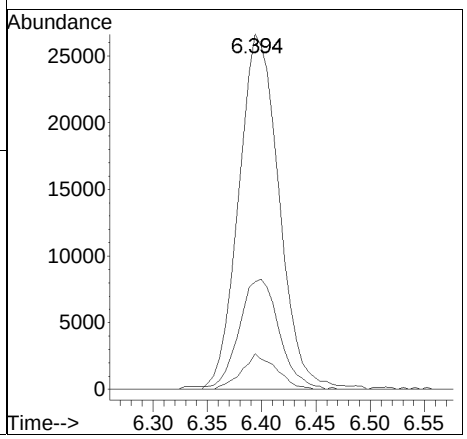


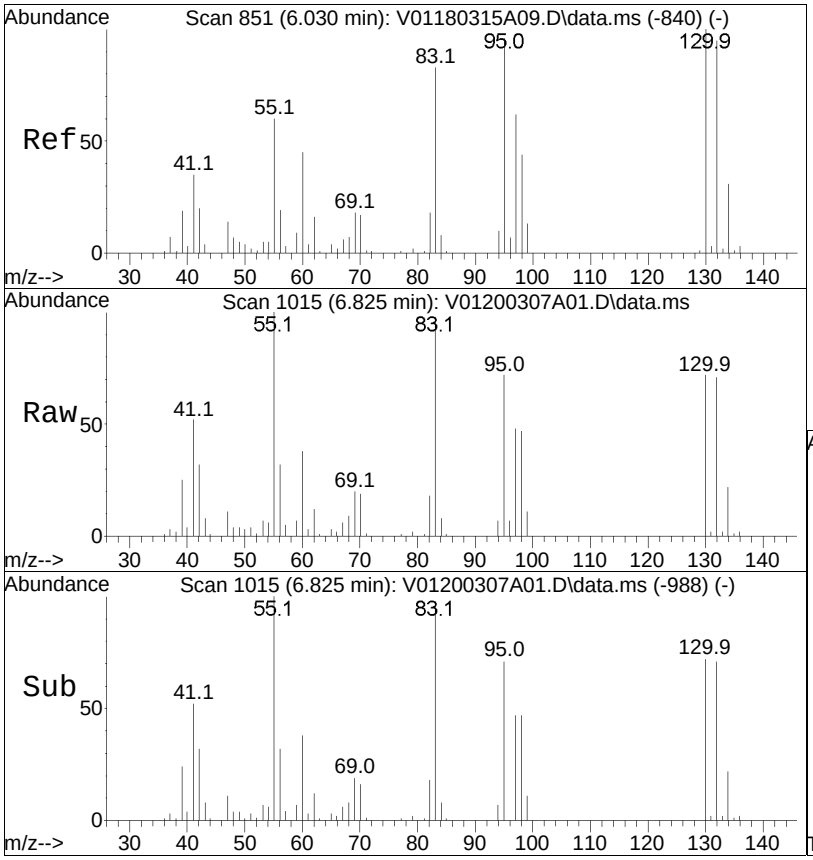


#44
1,2-Dichloroethane
Concen: 11.71 ug/L
RT: 6.394 min Scan# 936
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 62 Resp: 69043

Ion	Ratio	Lower	Upper
62	100		
64	31.4	12.1	52.1
98	8.6	0.0	28.8

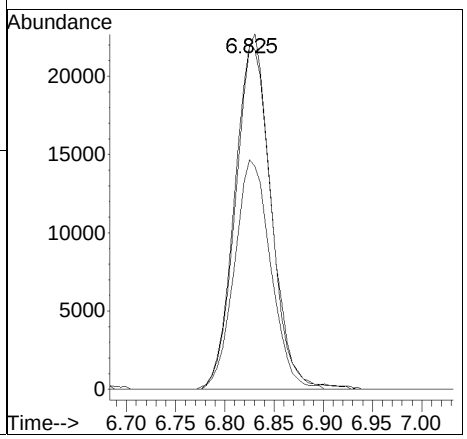


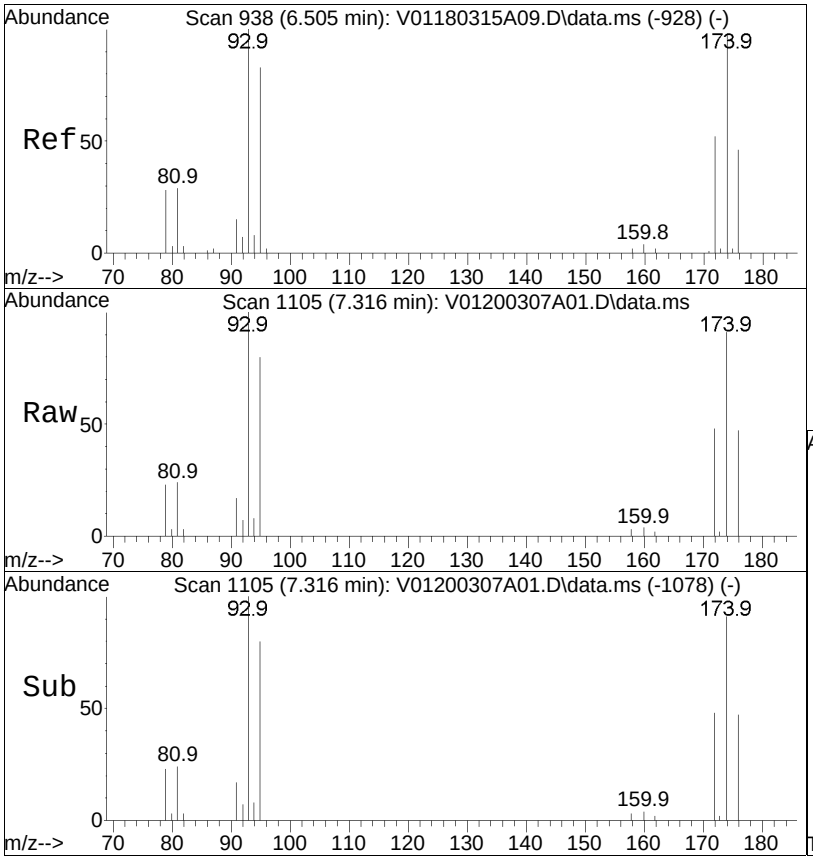


#48
Trichloroethene
Concen: 11.00 ug/L
RT: 6.825 min Scan# 1015
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 95 Resp: 56959

Ion	Ratio	Lower	Upper
95	100		
97	66.1	54.4	81.6
130	99.6	80.6	120.8

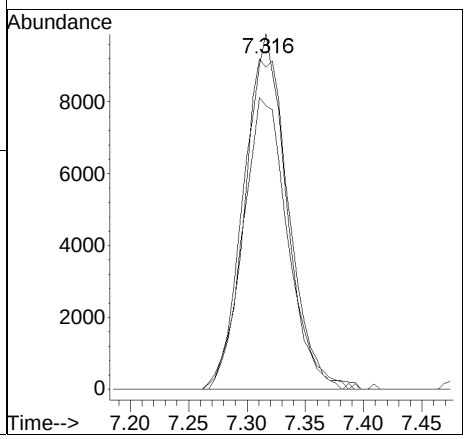


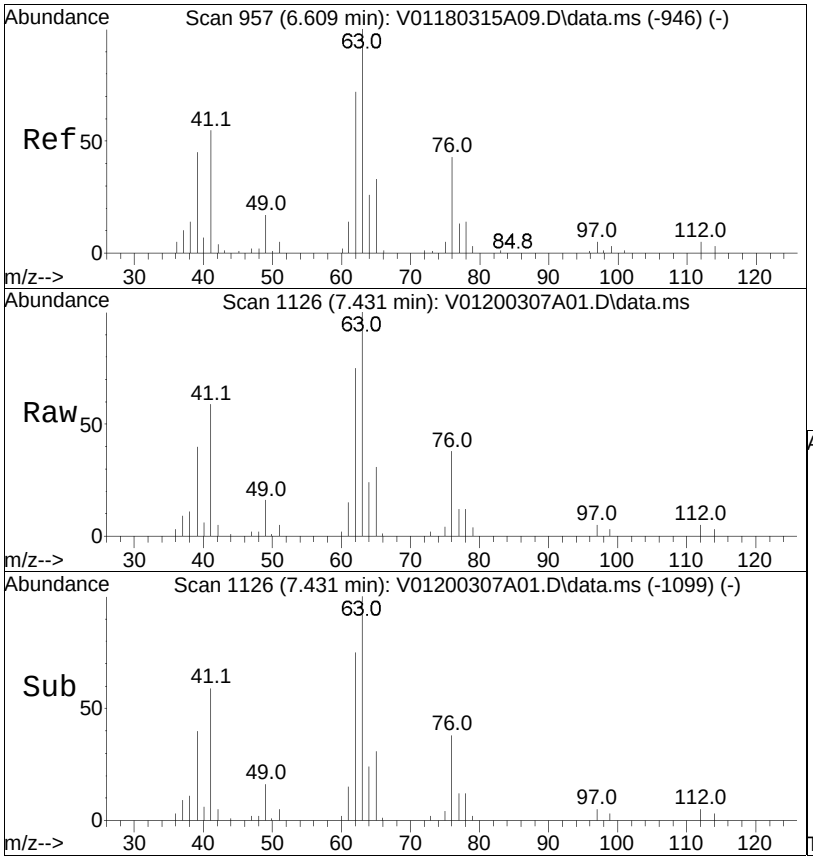


#50
Dibromomethane
Concen: 11.34 ug/L
RT: 7.316 min Scan# 1105
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 93 Resp: 25266

Ion	Ratio	Lower	Upper
93	100		
95	85.4	68.6	102.8
174	99.1	80.5	120.7

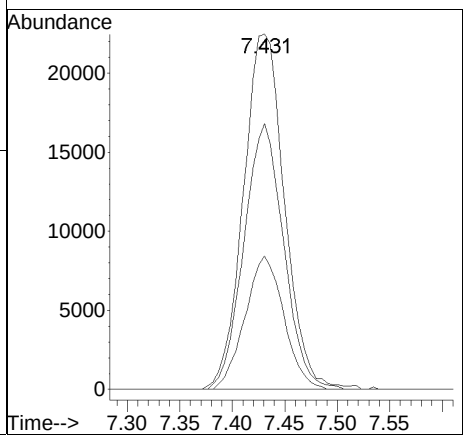


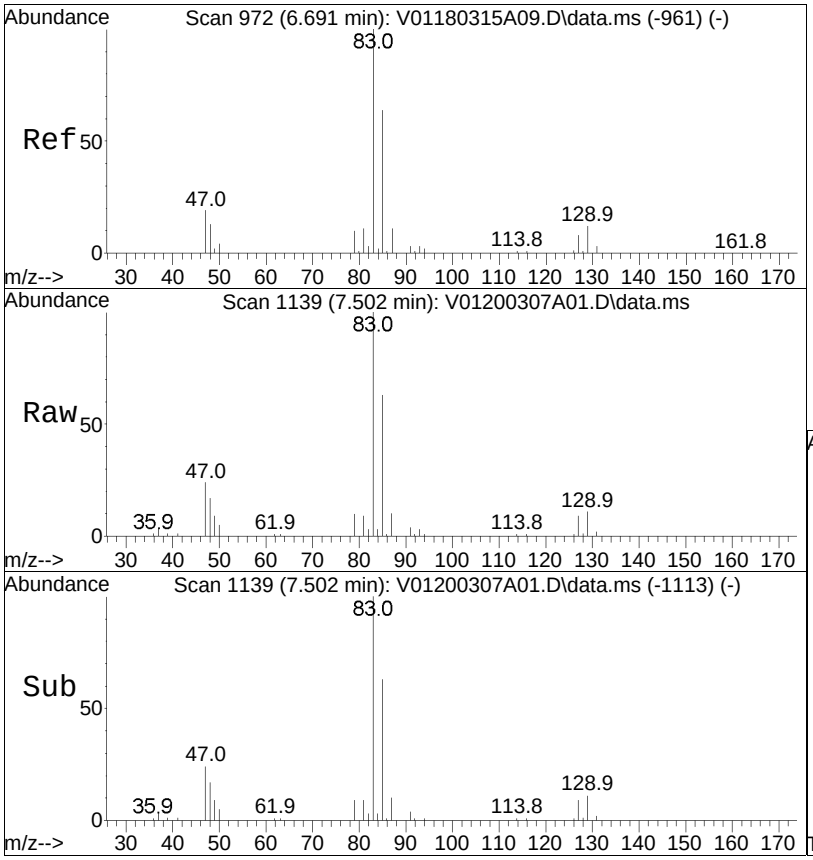


#51
1,2-Dichloropropane
Concen: 11.49 ug/L
RT: 7.431 min Scan# 1126
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 63 Resp: 61417

Ion	Ratio	Lower	Upper
63	100		
62	72.2	57.2	85.8
76	35.4	33.6	50.4

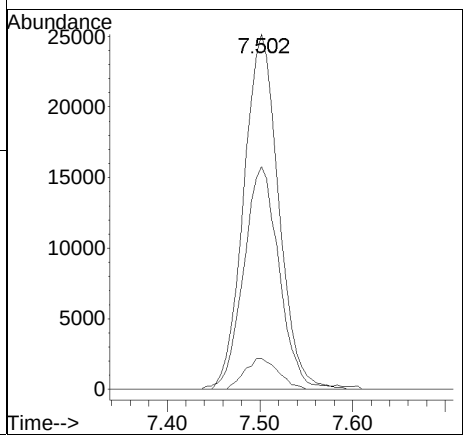


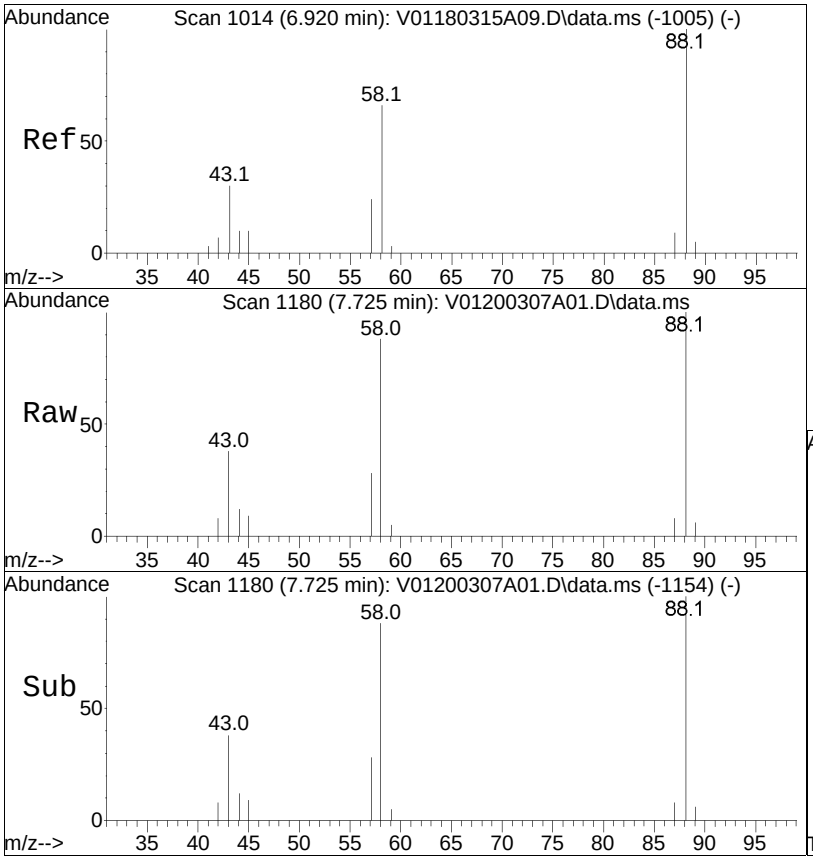


#54
Bromodichloromethane
Concen: 10.77 ug/L
RT: 7.502 min Scan# 1139
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 83 Resp: 66289

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.2	78.4
127	8.4	6.9	10.3

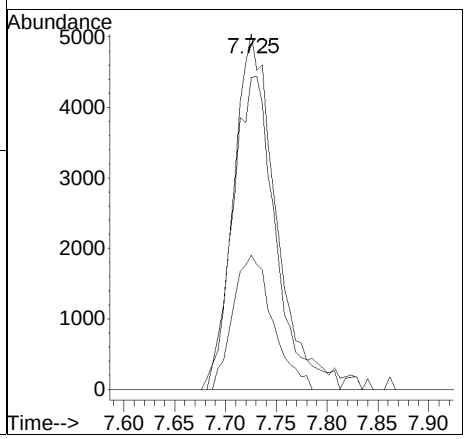


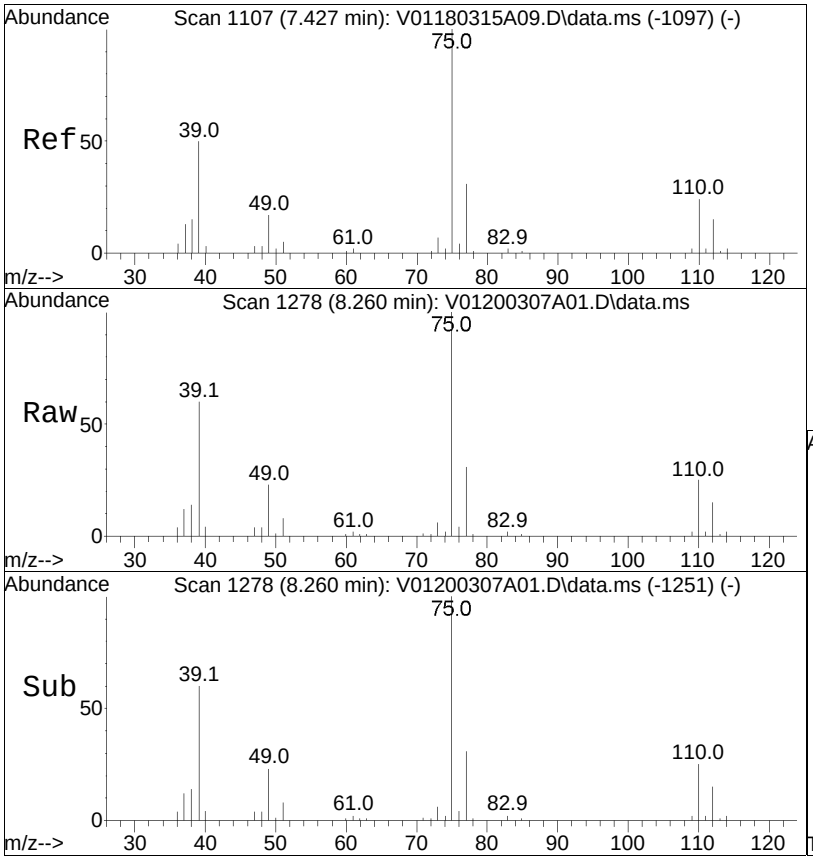


#57
1,4-Dioxane
Concen: 677.37 ug/L
RT: 7.725 min Scan# 1180
Delta R.T. -0.011 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 88 Resp: 14796

Ion	Ratio	Lower	Upper
88	100		
58	88.0	54.8	82.2#
43	35.1	29.3	43.9

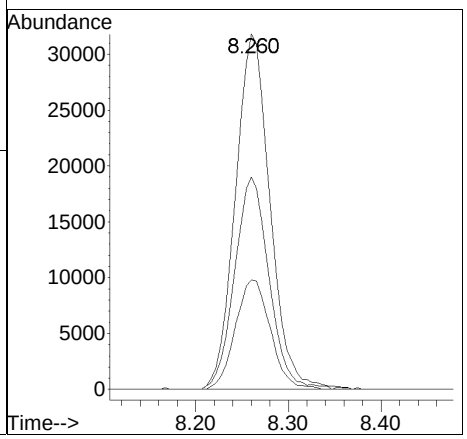


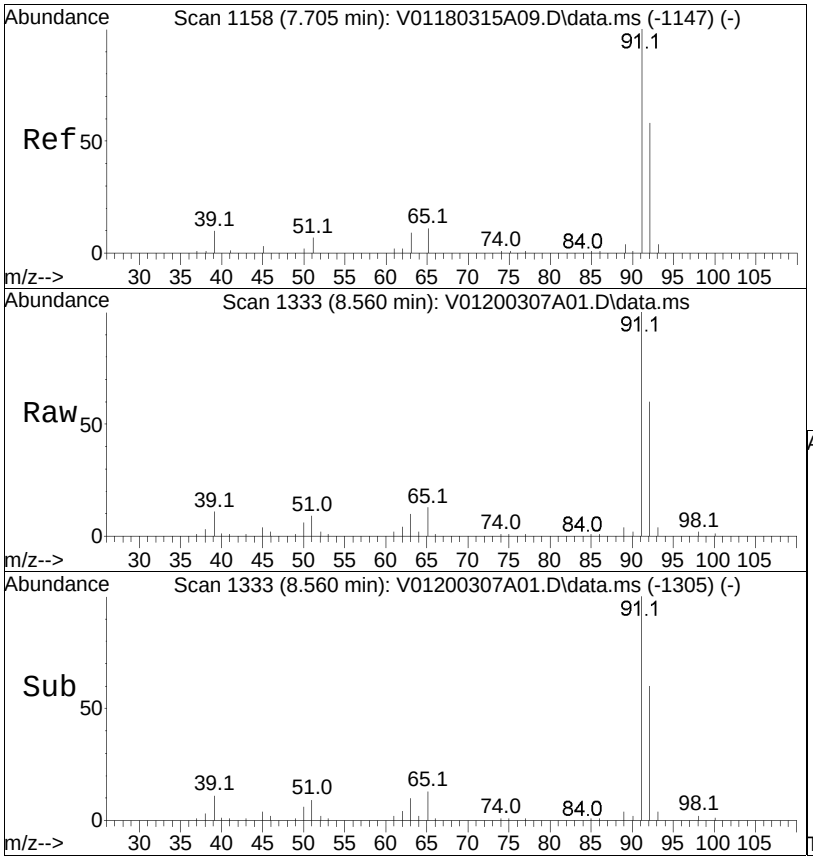


#58
cis-1,3-Dichloropropene
Concen: 10.96 ug/L
RT: 8.260 min Scan# 1278
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 75 Resp: 82924

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.1	37.7
39	59.2	42.6	63.8

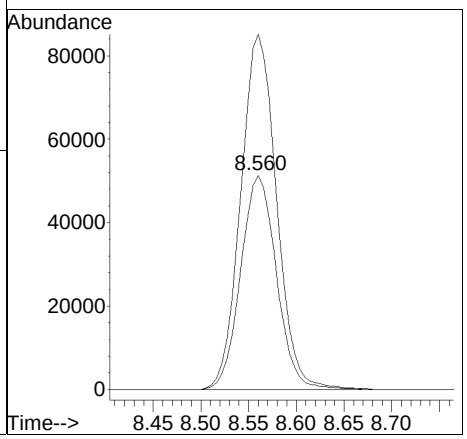


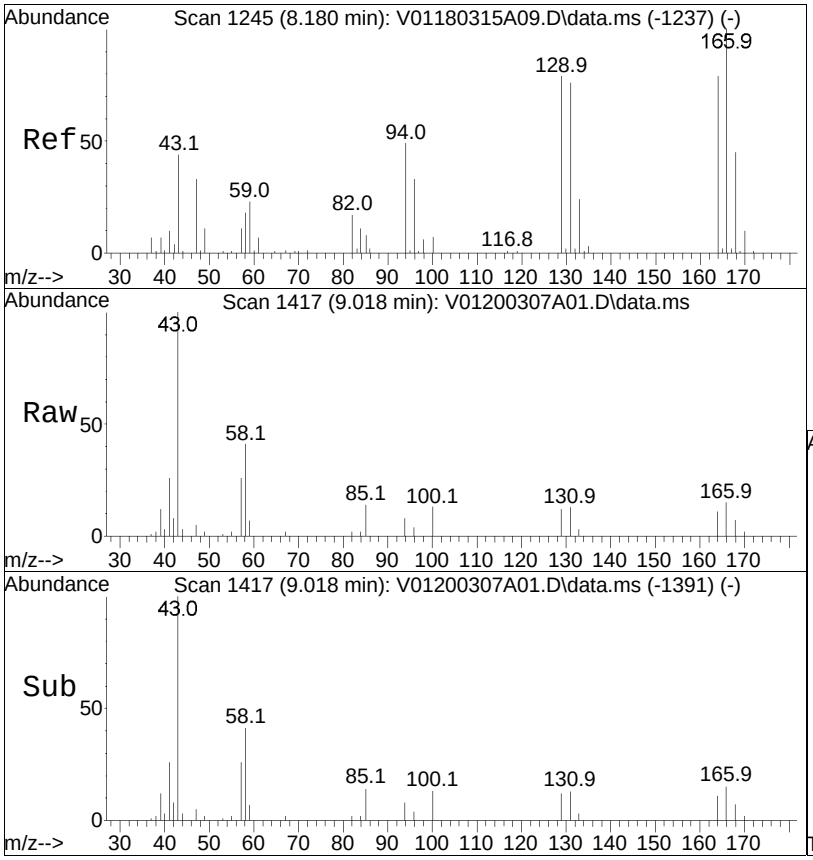


#61
Toluene
Concen: 11.00 ug/L
RT: 8.560 min Scan# 1333
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 92 Resp: 133589

Ion	Ratio	Lower	Upper
92	100		
91	166.2	137.5	206.3

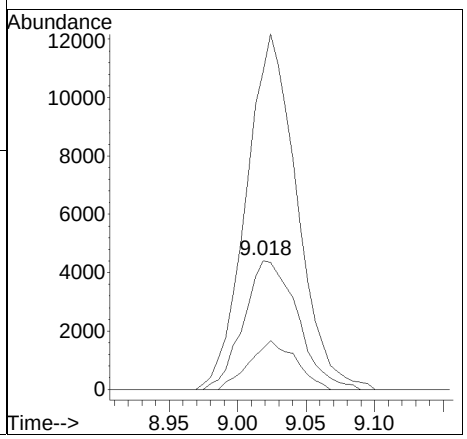


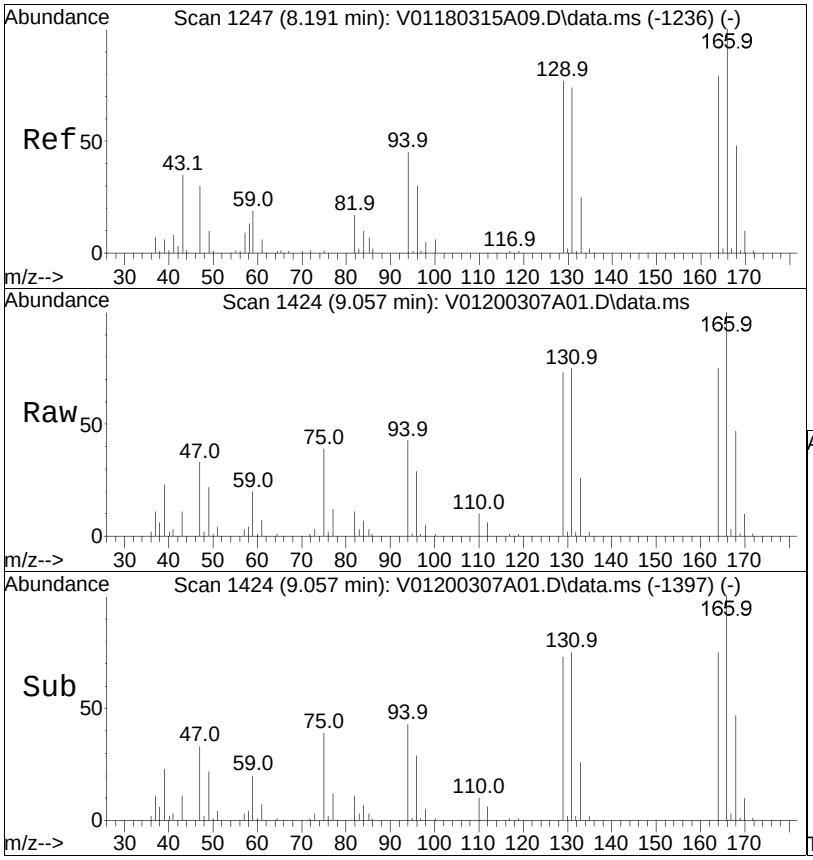


#62
4-Methyl-2-pentanone
Concen: 10.90 ug/L
RT: 9.018 min Scan# 1417
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 58 Resp: 12059

Ion	Ratio	Lower	Upper
58	100		
100	32.8	31.8	47.6
43	260.9	212.5	318.7

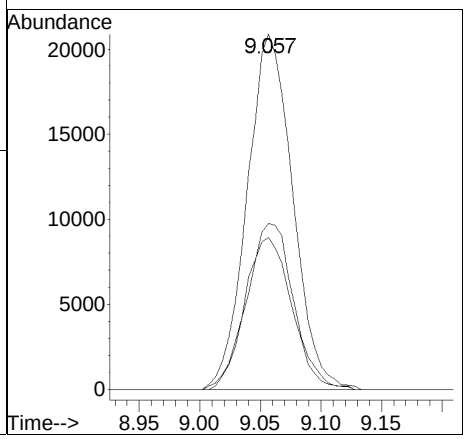


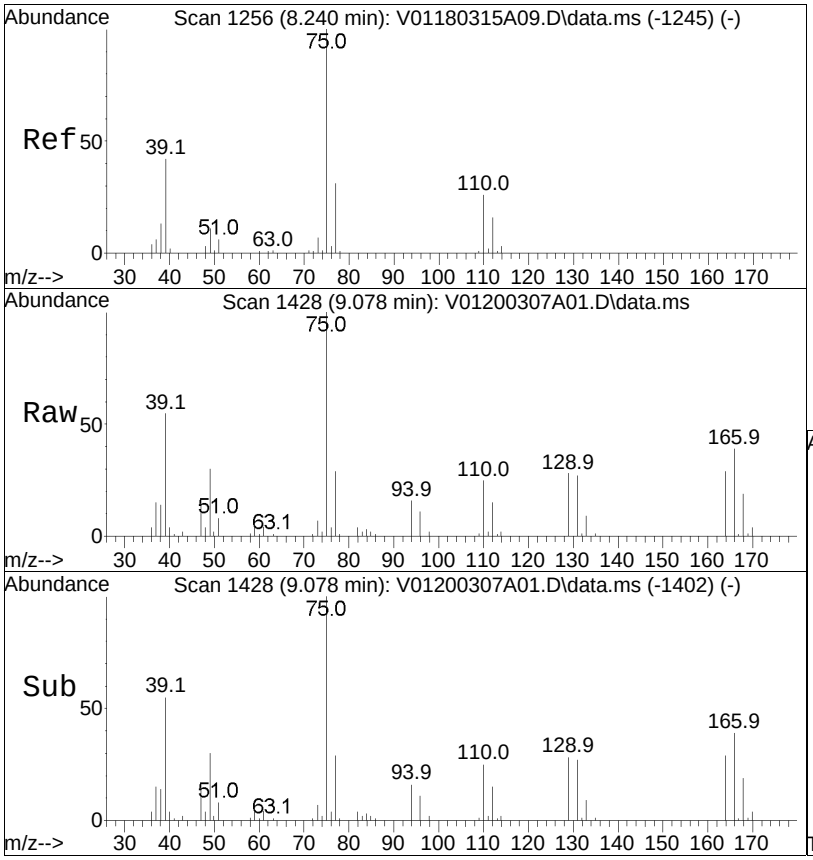


#63
Tetrachloroethene
Concen: 10.54 ug/L
RT: 9.057 min Scan# 1424
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:166 Resp: 54675

Ion	Ratio	Lower	Upper
166	100		
168	47.7	27.4	67.4
94	44.5	24.8	64.8

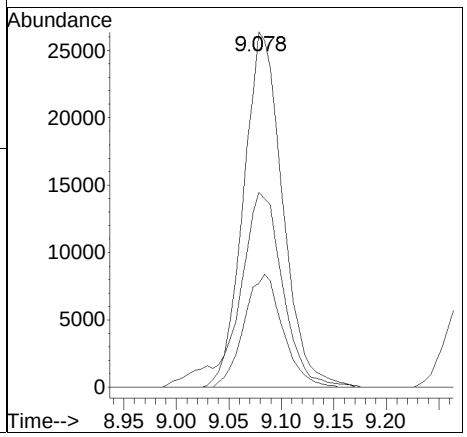


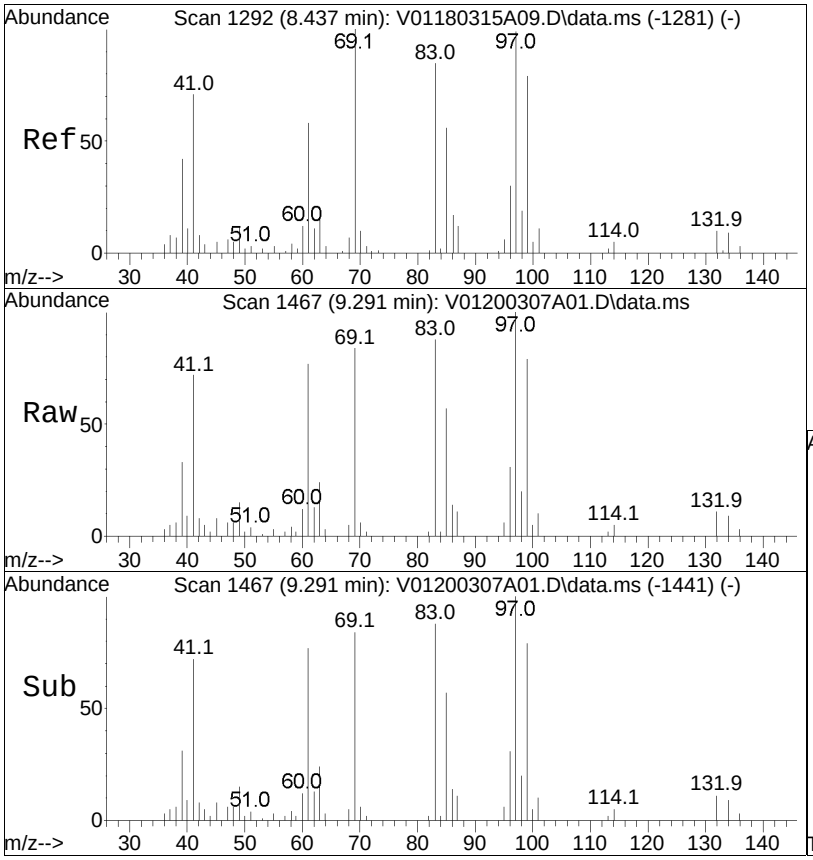


#65
trans-1,3-Dichloropropene
Concen: 10.75 ug/L
RT: 9.078 min Scan# 1428
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 75 Resp: 68512

Ion	Ratio	Lower	Upper
75	100		
77	31.6	11.8	51.8
39	61.6	30.2	70.2

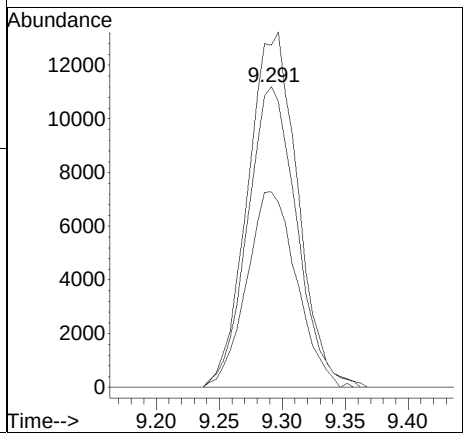


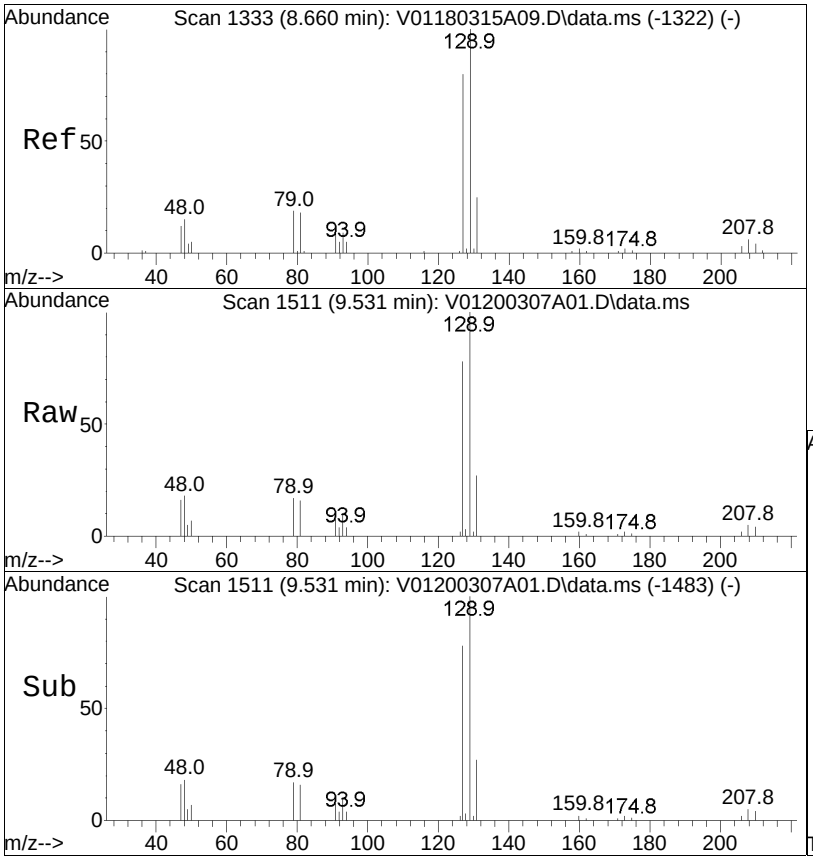


#68
1,1,2-Trichloroethane
Concen: 10.95 ug/L
RT: 9.291 min Scan# 1467
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 83 Resp: 30395

Ion	Ratio	Lower	Upper
83	100		
97	120.2	96.7	136.7
85	66.3	45.3	85.3

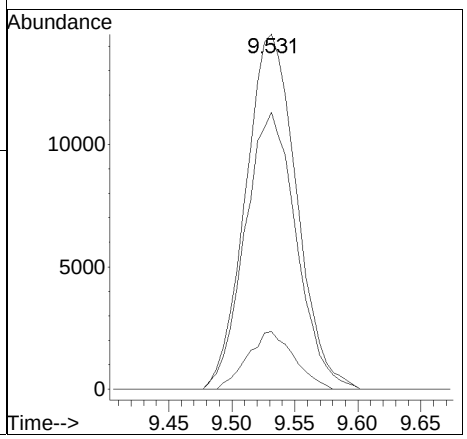


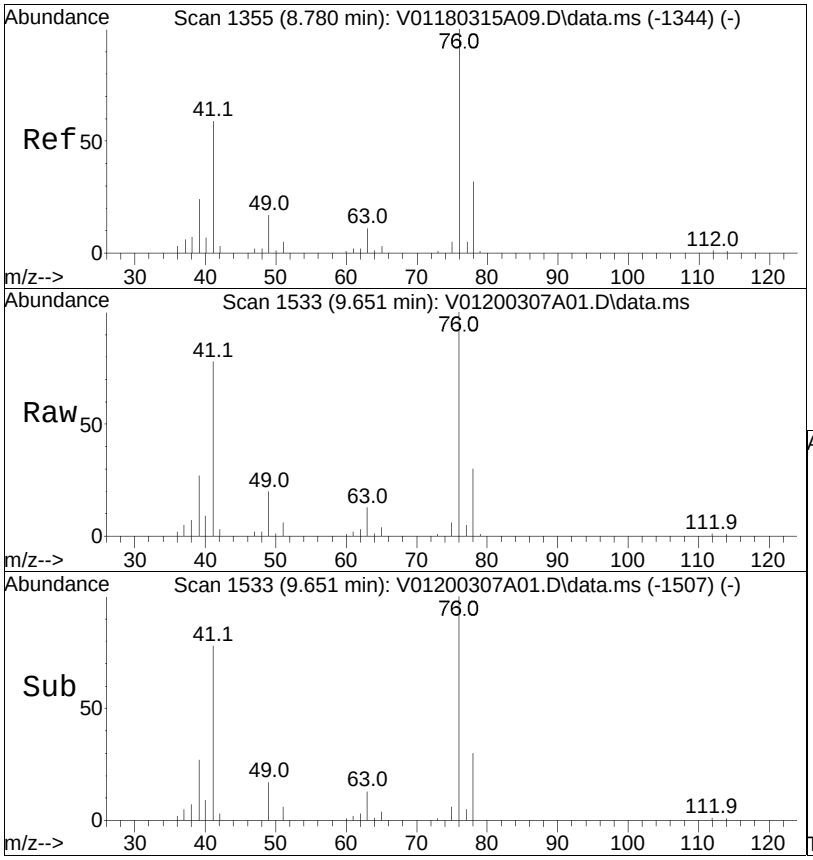


#69
Chlorodibromomethane
Concen: 10.02 ug/L
RT: 9.531 min Scan# 1511
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:129 Resp: 40816

Ion	Ratio	Lower	Upper
129	100		
81	14.9	0.0	37.9
127	78.7	56.6	96.6

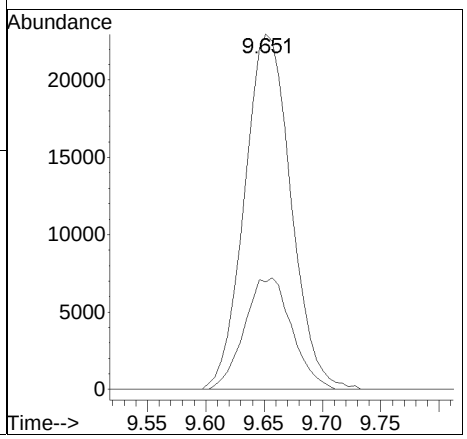


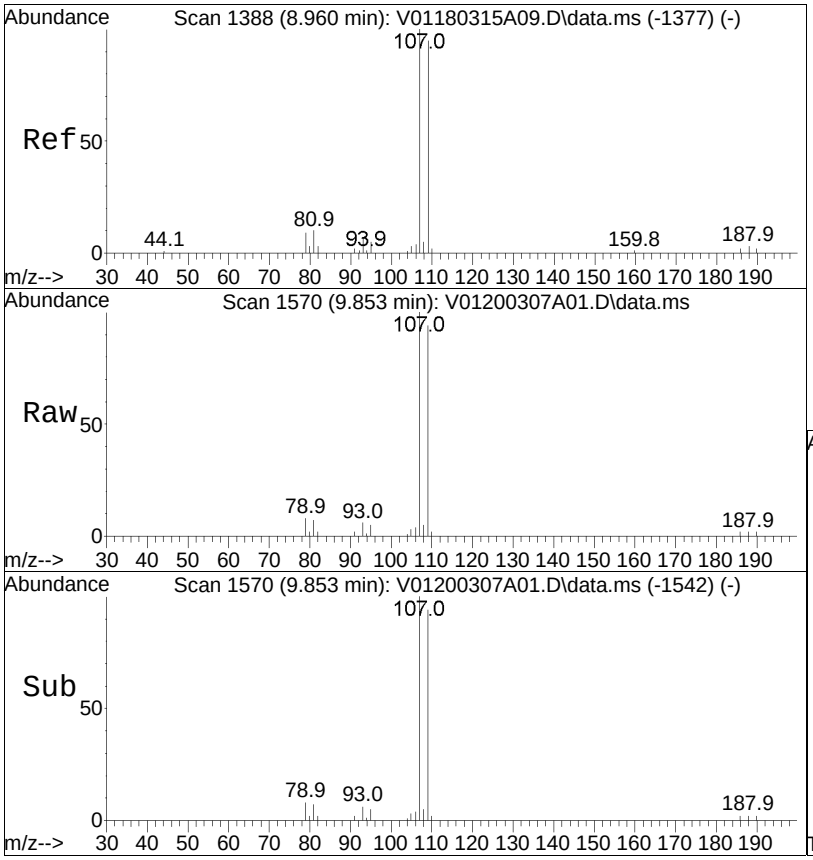


#70
1,3-Dichloropropane
Concen: 10.82 ug/L
RT: 9.651 min Scan# 1533
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 76 Resp: 63672

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

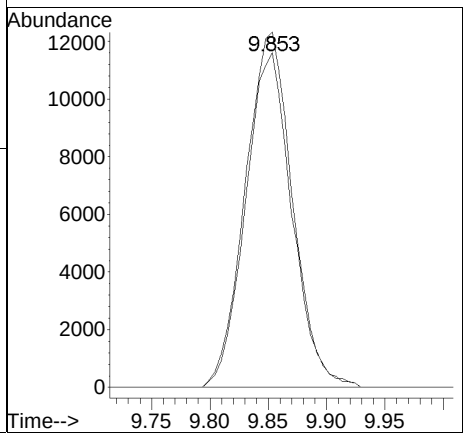


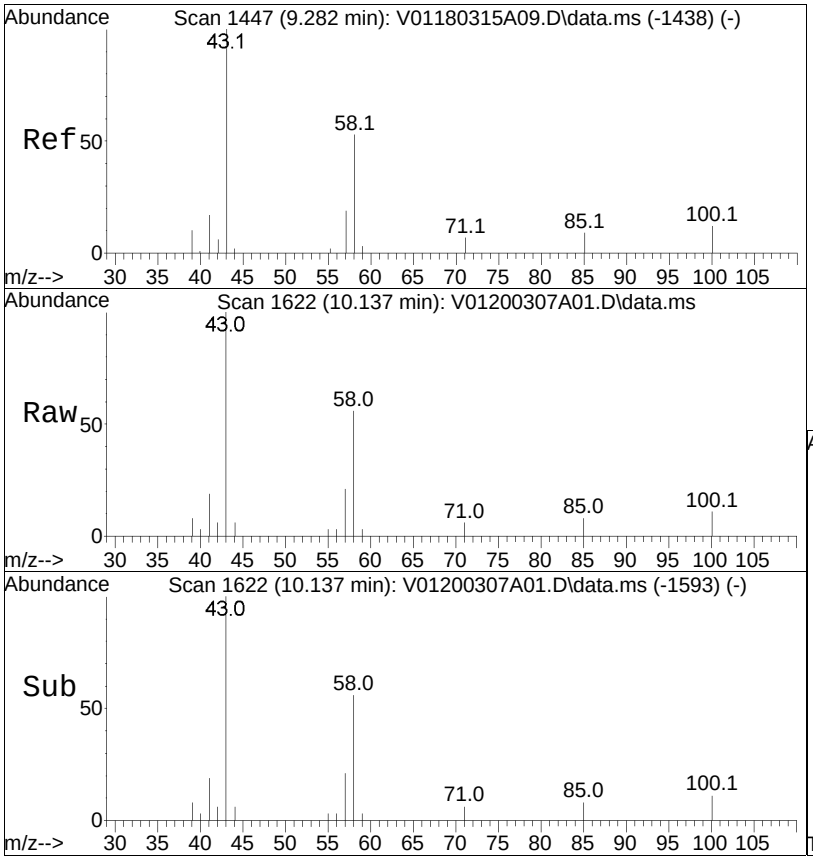


#71
1,2-Dibromoethane
Concen: 10.81 ug/L
RT: 9.853 min Scan# 1570
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:107 Resp: 34698

Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.6	113.4

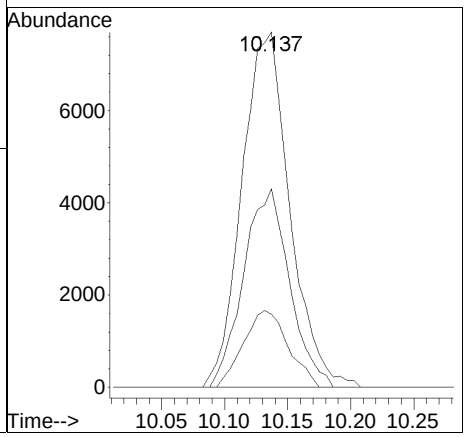


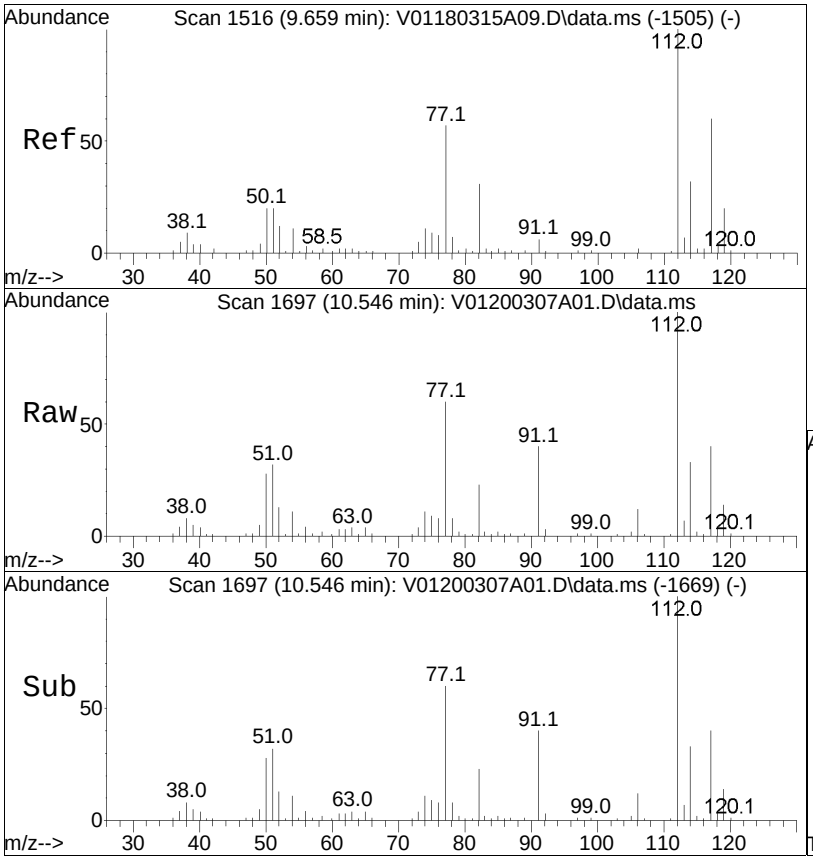


#72
2-Hexanone
Concen: 9.76 ug/L
RT: 10.137 min Scan# 1622
Delta R.T. 0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 43 Resp: 20402

Ion	Ratio	Lower	Upper
43	100		
58	53.6	40.8	61.2
57	20.3	14.2	21.4

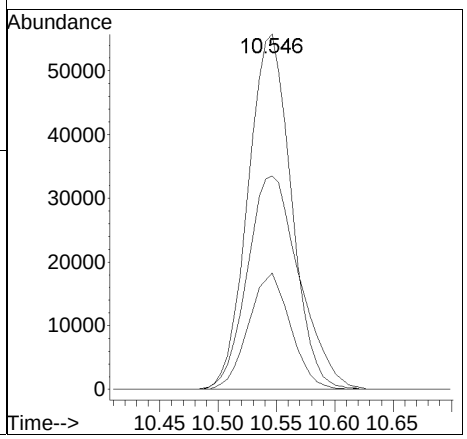


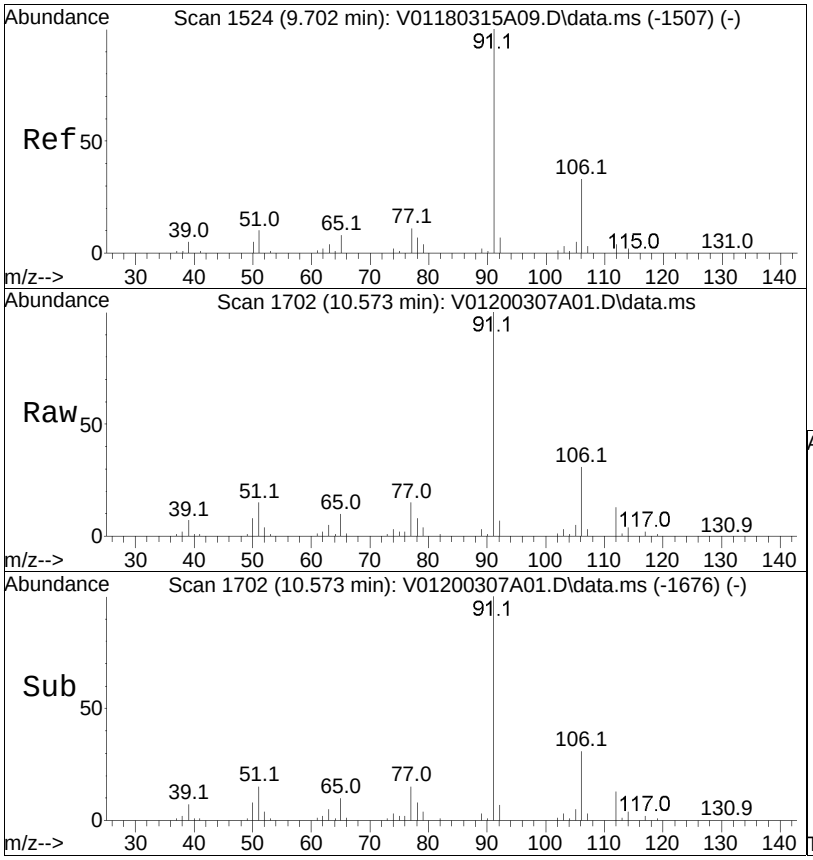


#73
Chlorobenzene
Concen: 11.06 ug/L
RT: 10.546 min Scan# 1697
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:112 Resp: 143555

Ion	Ratio	Lower	Upper
112	100		
77	72.7	59.8	89.6
114	31.9	25.4	38.2

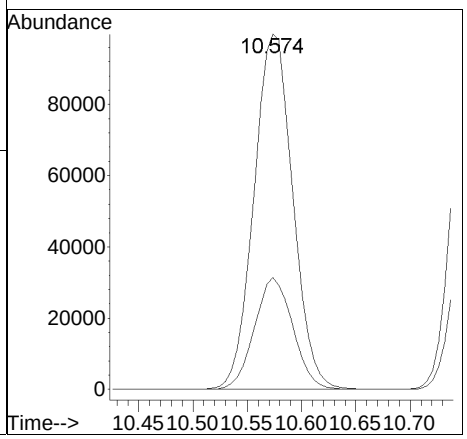


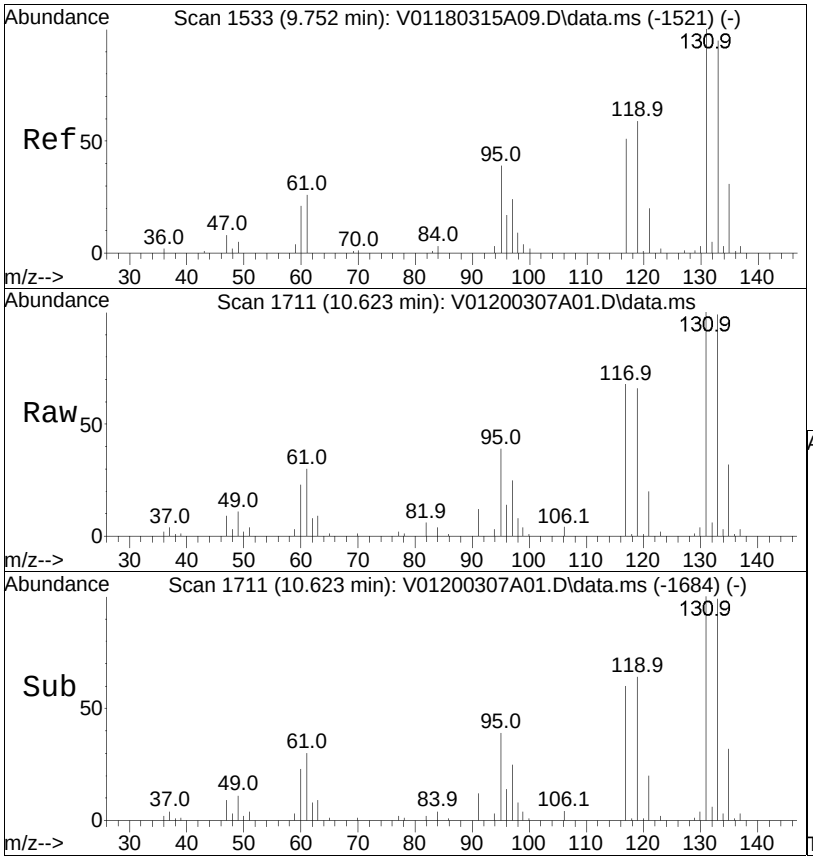


#74
Ethylbenzene
Concen: 10.90 ug/L
RT: 10.573 min Scan# 1702
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 91 Resp: 248082

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.7	37.1

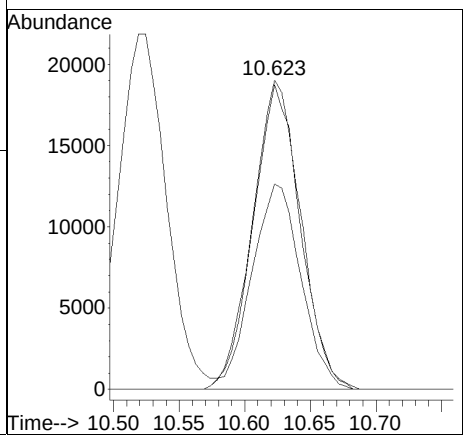


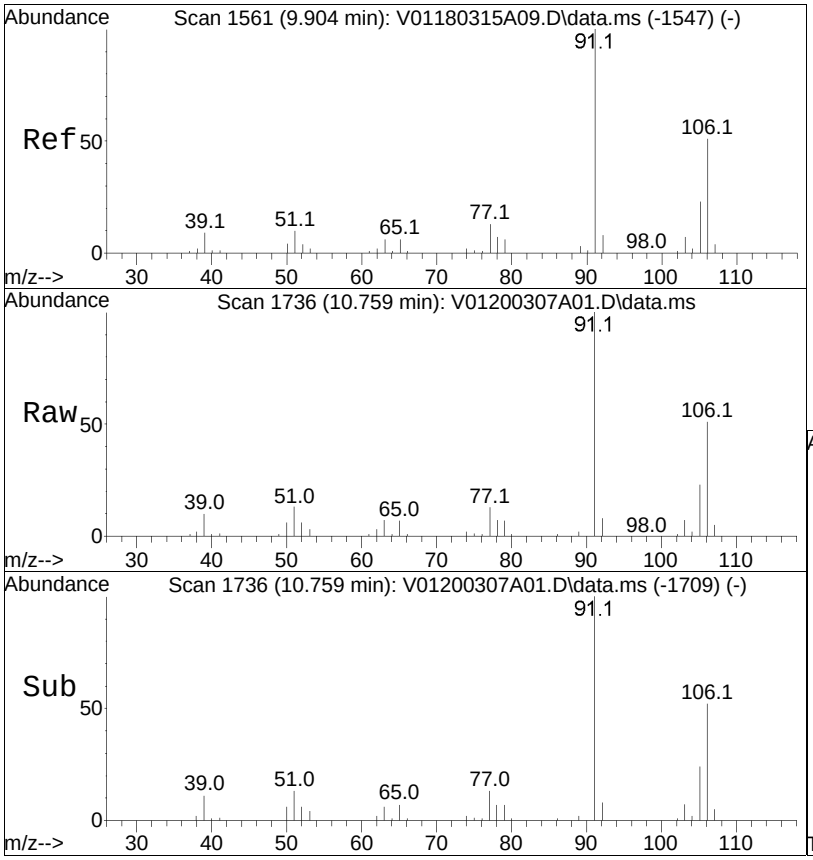


#75
1,1,1,2-Tetrachloroethane
Concen: 10.32 ug/L
RT: 10.623 min Scan# 1711
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:131 Resp: 48778

Ion	Ratio	Lower	Upper
131	100		
133	96.1	75.8	115.8
119	67.4	45.8	85.8

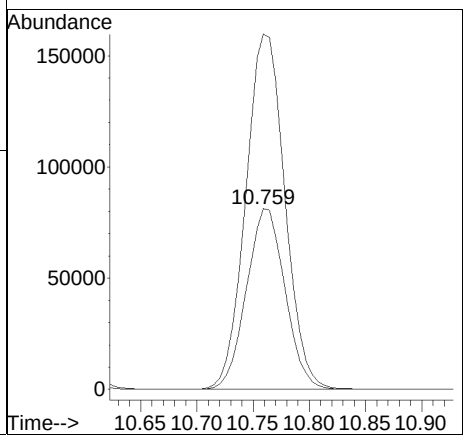


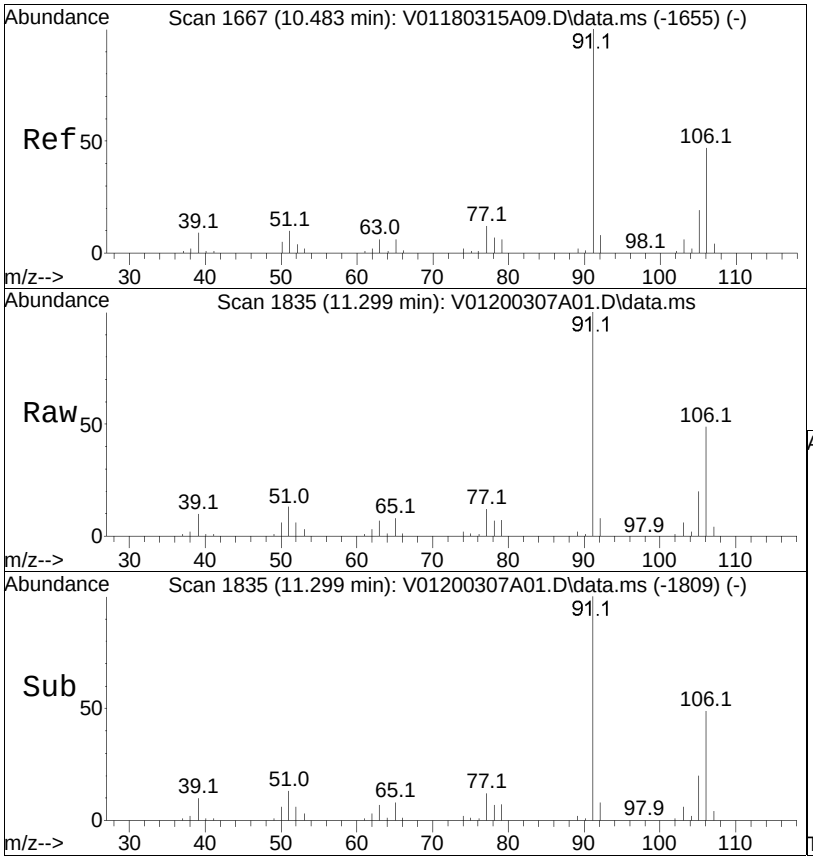


#76
p/m Xylene
Concen: 21.94 ug/L
RT: 10.759 min Scan# 1736
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:106 Resp: 193825

Ion	Ratio	Lower	Upper
106	100		
91	199.4	162.9	244.3

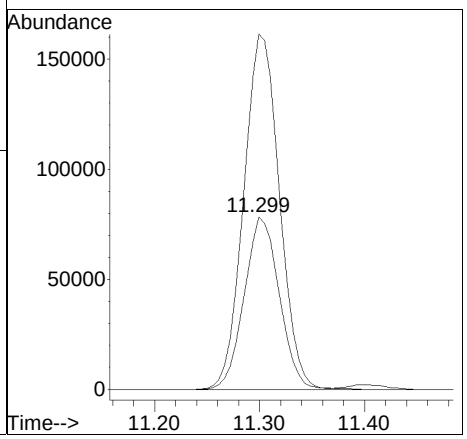


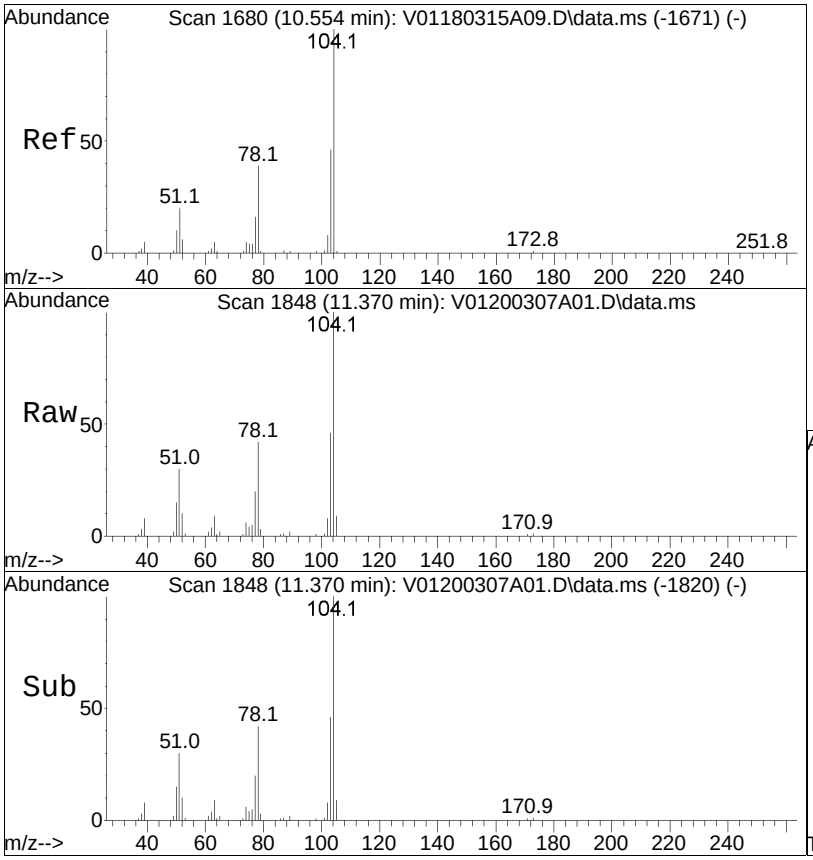


#77
o Xylene
Concen: 22.01 ug/L
RT: 11.299 min Scan# 1835
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:106 Resp: 181852

Ion	Ratio	Lower	Upper
106	100		
91	209.4	171.2	256.8

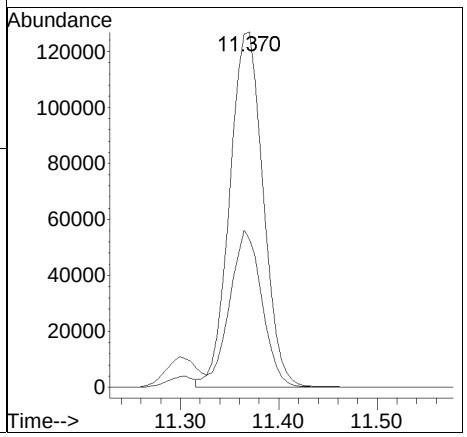


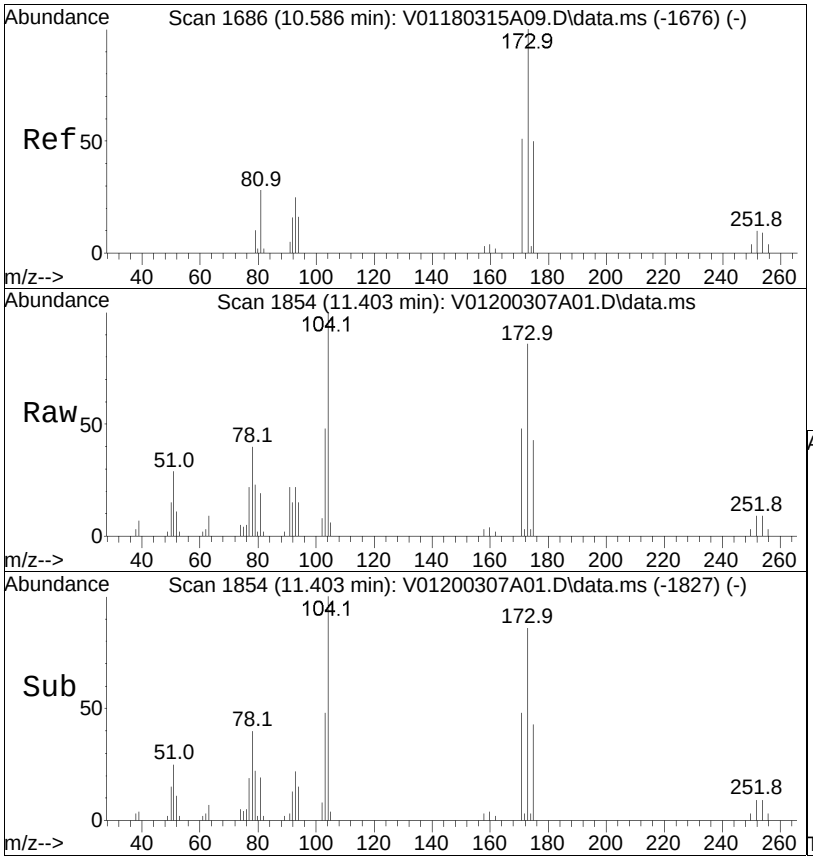


#78
Styrene
Concen: 21.71 ug/L
RT: 11.370 min Scan# 1848
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:104 Resp: 300693

Ion	Ratio	Lower	Upper
104	100		
78	42.3	34.2	51.4

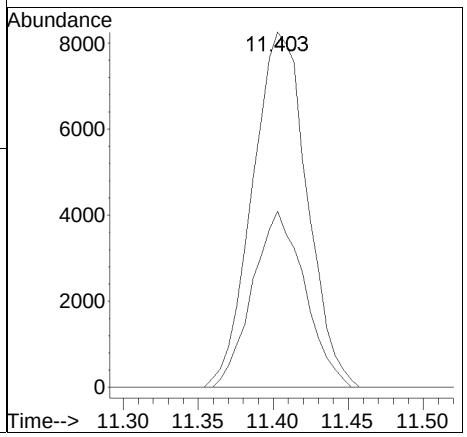


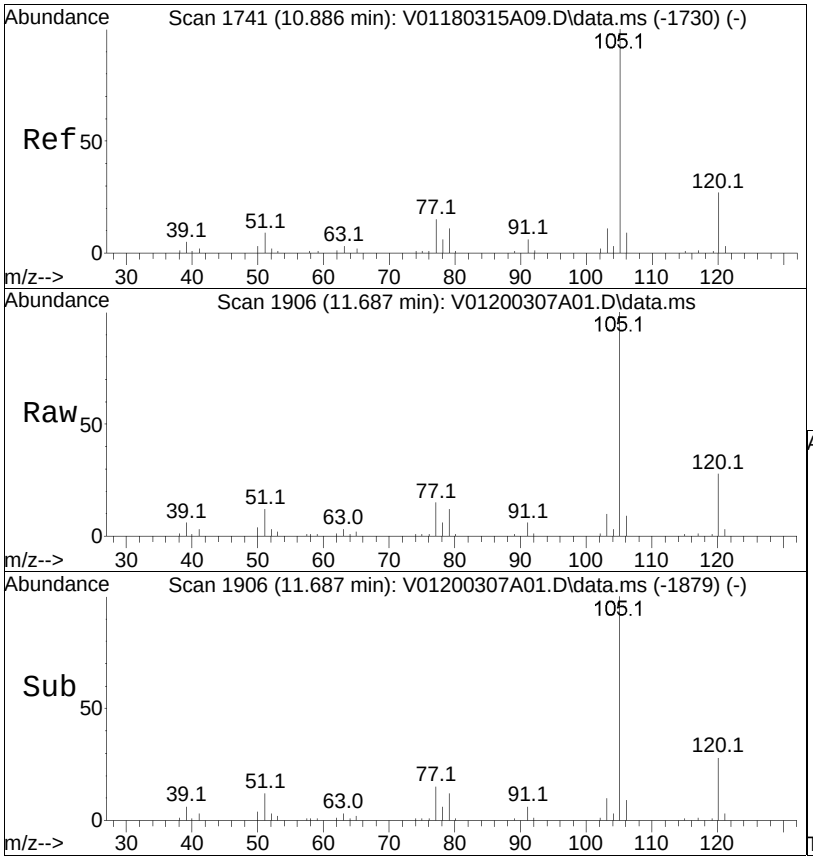


#80
Bromoform
Concen: 9.76 ug/L
RT: 11.403 min Scan# 1854
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:173 Resp: 20917

Ion	Ratio	Lower	Upper
173	100		
175	47.3	28.6	68.6

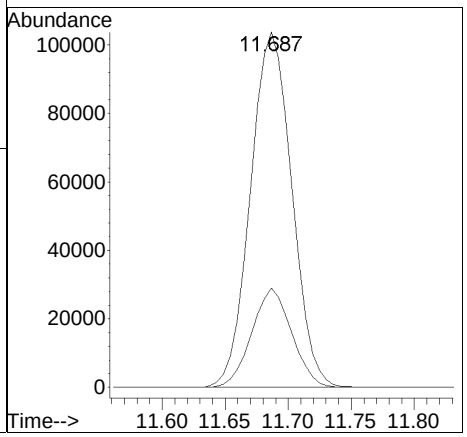


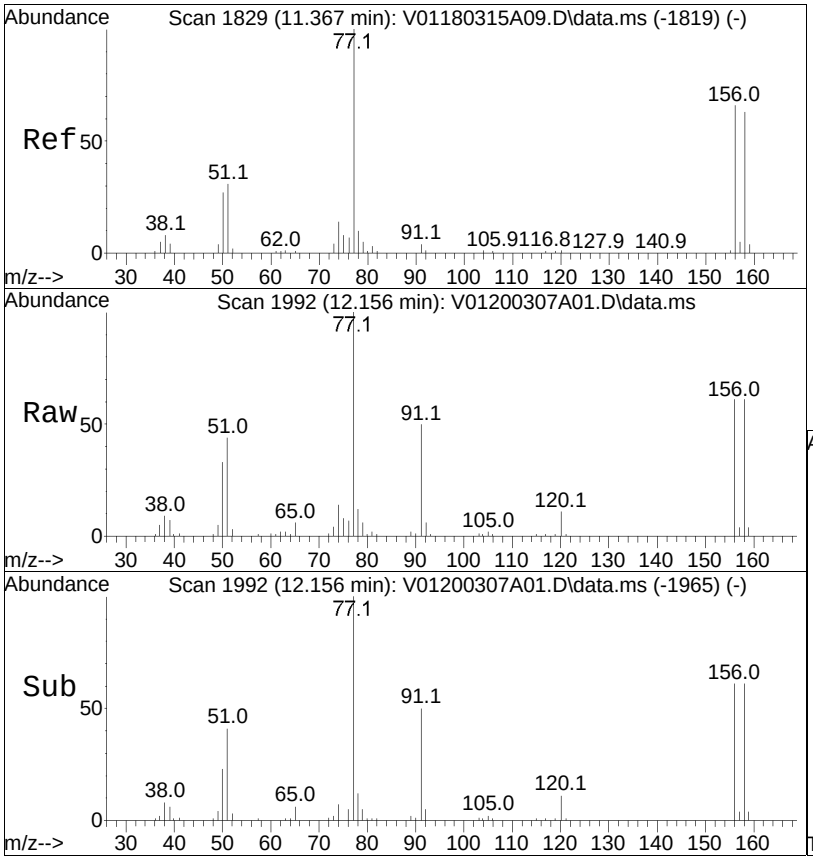


#82
Isopropylbenzene
Concen: 10.75 ug/L
RT: 11.687 min Scan# 1906
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:105 Resp: 236675

Ion	Ratio	Lower	Upper
105	100		
120	26.9	7.3	47.3

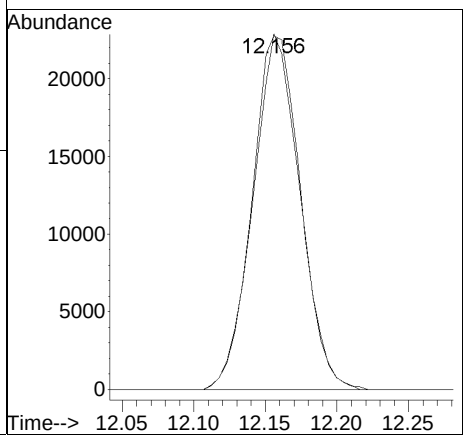


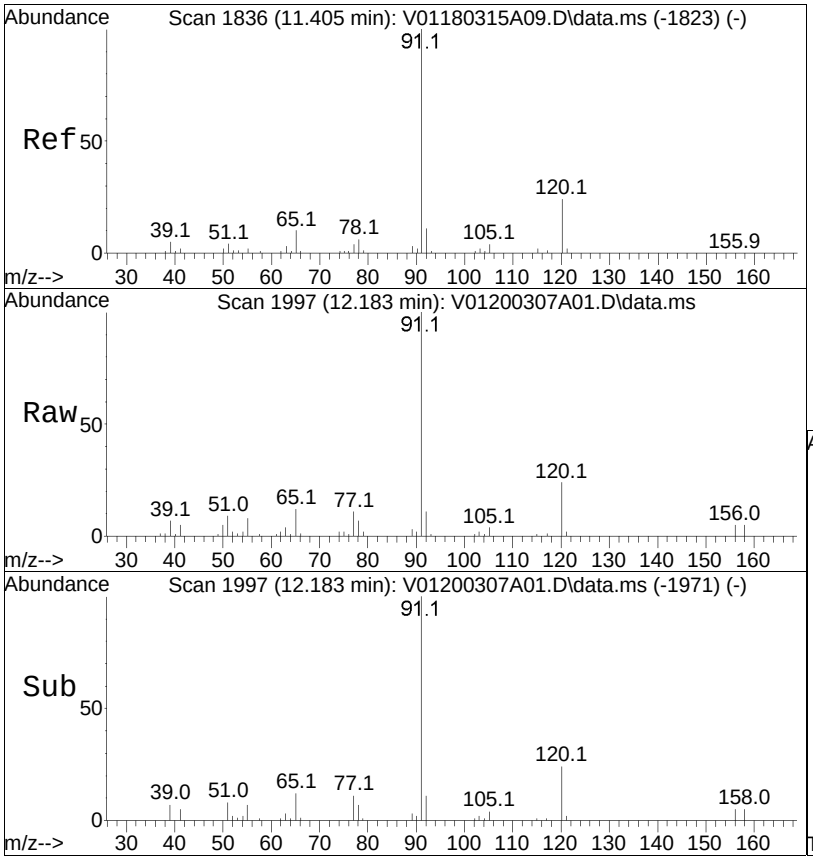


#84
Bromobenzene
Concen: 10.93 ug/L
RT: 12.156 min Scan# 1992
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:156 Resp: 53793

Ion	Ratio	Lower	Upper
156	100		
158	96.7	78.2	117.4

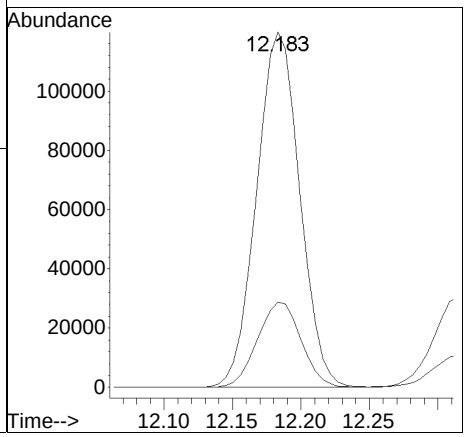


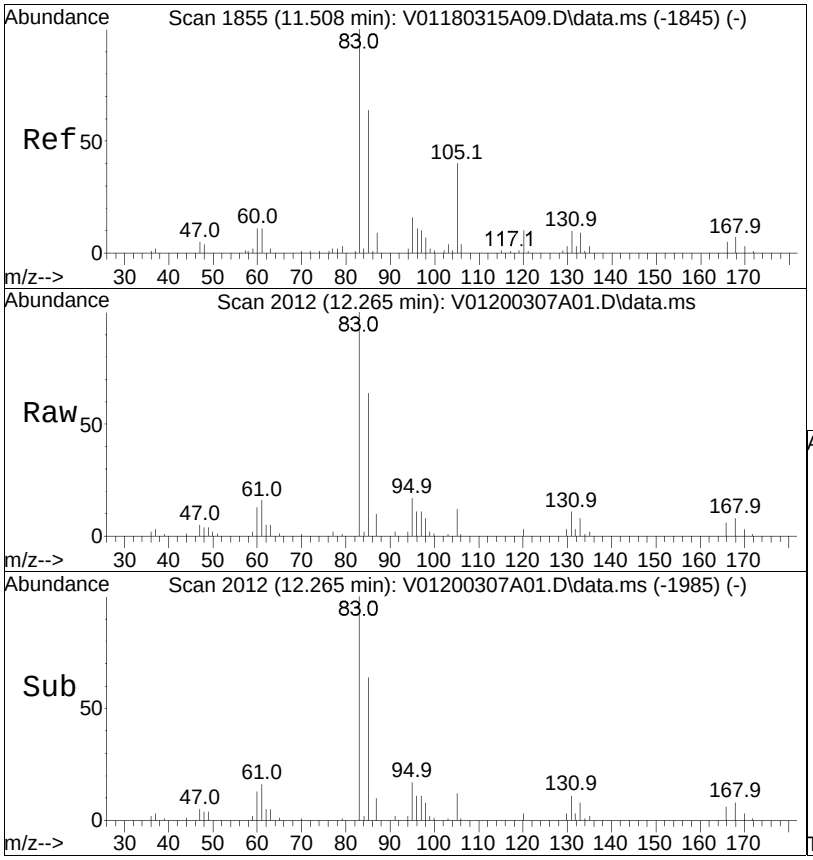


#85
n-Propylbenzene
Concen: 11.04 ug/L
RT: 12.183 min Scan# 1997
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 91 Resp: 263027

Ion	Ratio	Lower	Upper
91	100		
120	24.2	18.6	28.0

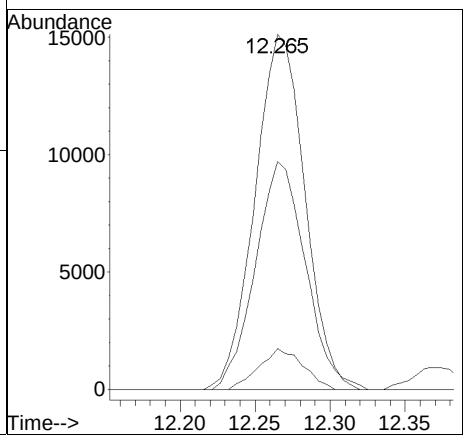


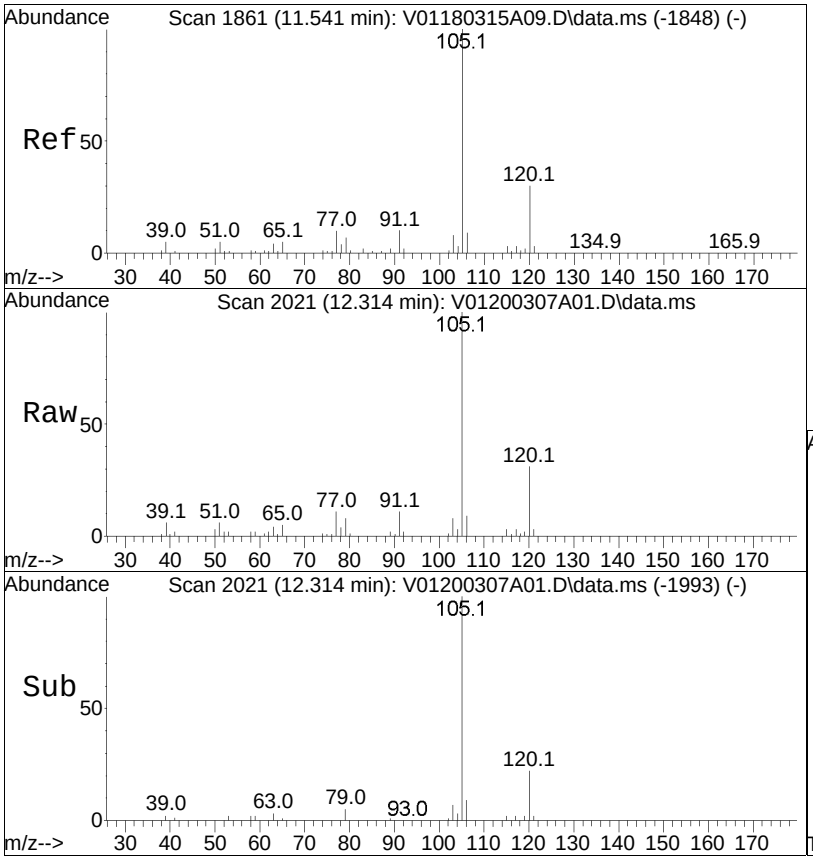


#87
1,1,2,2-Tetrachloroethane
Concen: 10.46 ug/L
RT: 12.265 min Scan# 2012
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 83 Resp: 34953

Ion	Ratio	Lower	Upper
83	100		
131	10.2	0.0	30.1
85	64.6	45.8	85.8

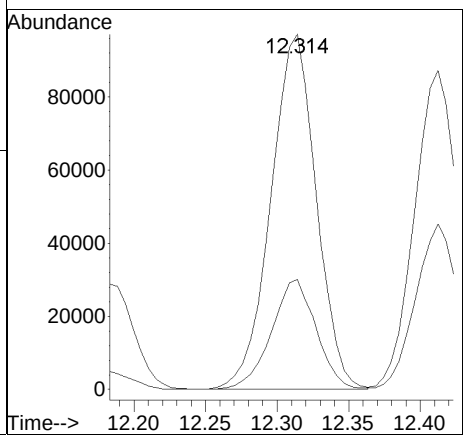


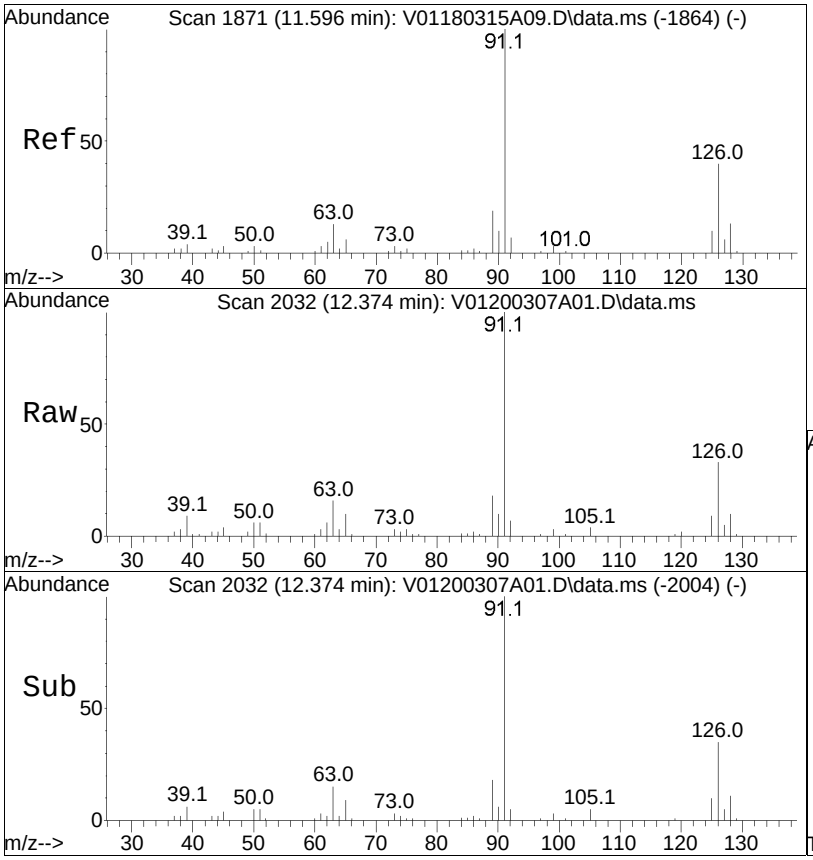


#88
4-Ethyltoluene
Concen: 10.99 ug/L
RT: 12.314 min Scan# 2021
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:105 Resp: 214115

Ion	Ratio	Lower	Upper
105	100		
120	30.5	19.8	41.0

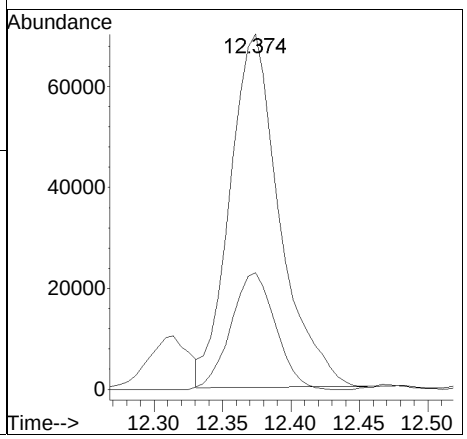


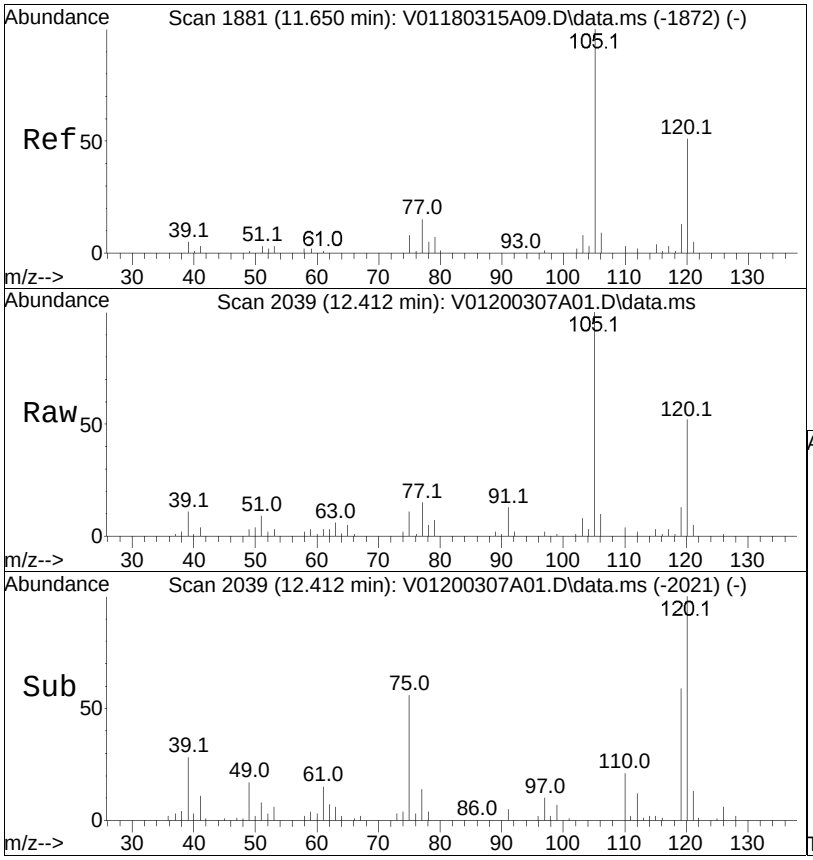


#89
2-Chlorotoluene
Concen: 11.17 ug/L
RT: 12.374 min Scan# 2032
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 91 Resp: 176634

Ion	Ratio	Lower	Upper
91	100		
126	29.5	27.1	40.7

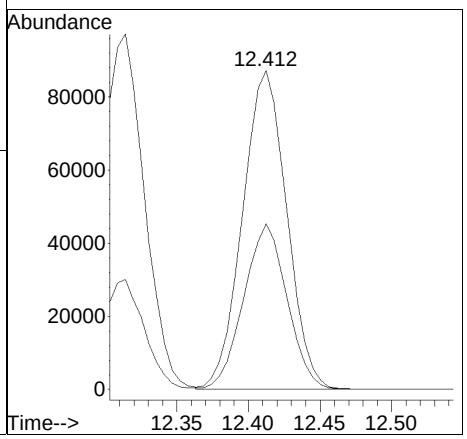


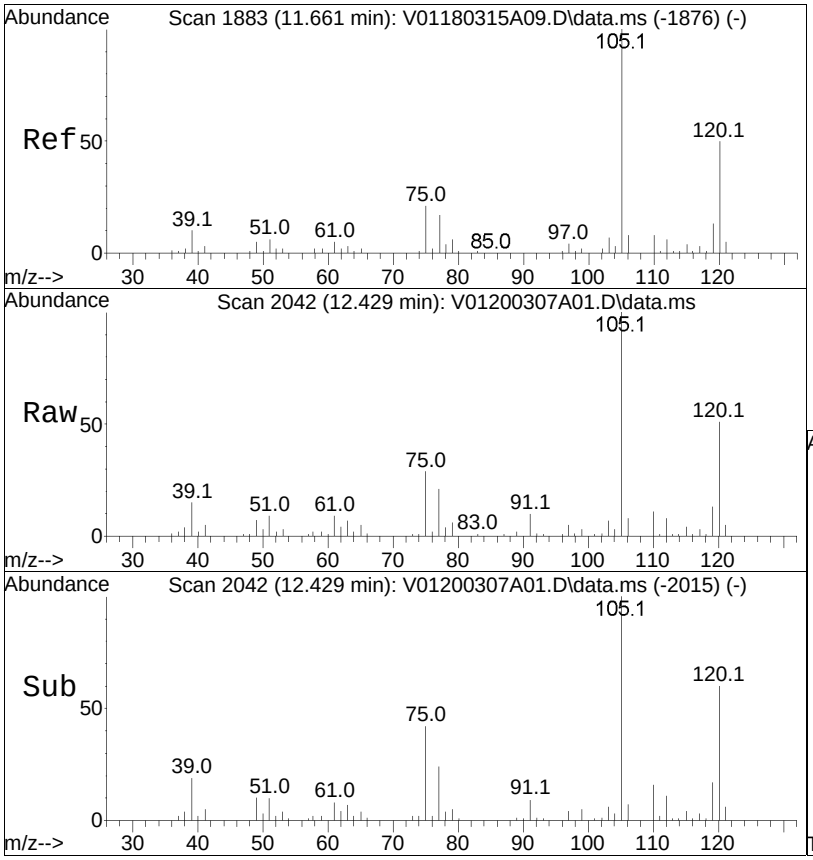


#90
1,3,5-Trimethylbenzene
Concen: 10.98 ug/L
RT: 12.412 min Scan# 2039
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:105 Resp: 187130

Ion	Ratio	Lower	Upper
105	100		
120	50.8	40.6	60.8

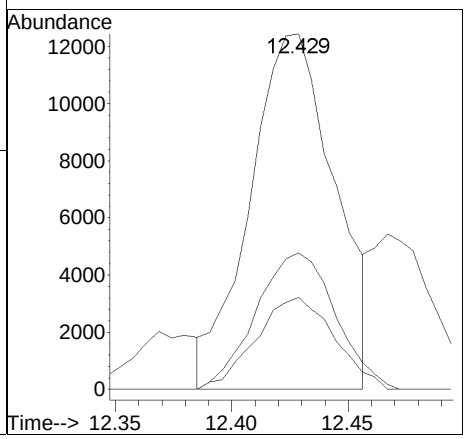


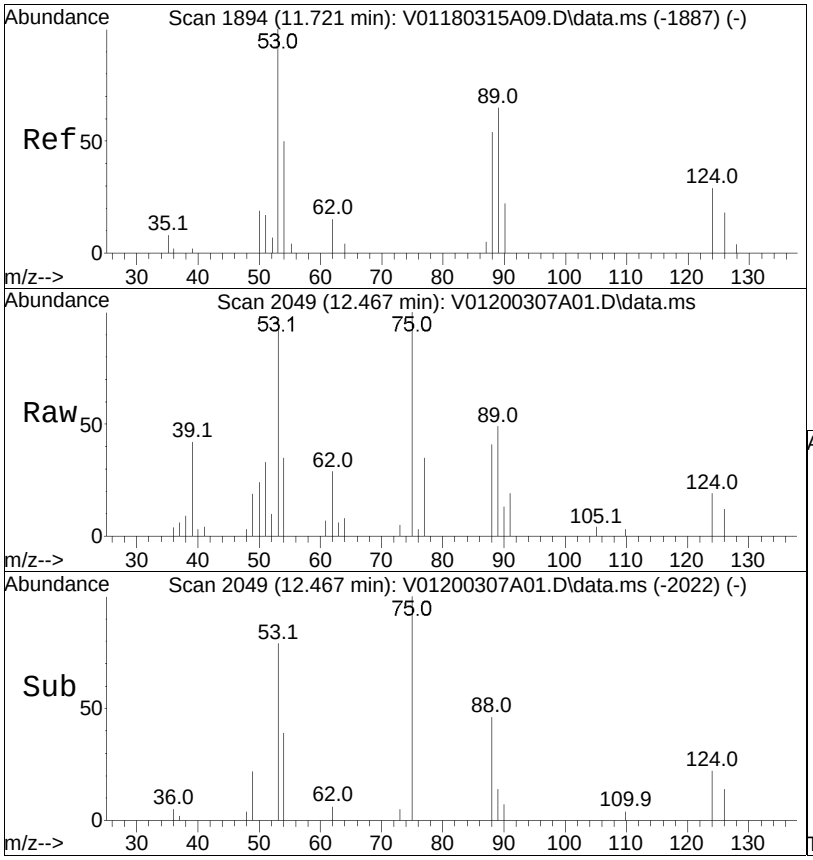


#91
1,2,3-Trichloropropane
Concen: 10.02 ug/L M1
RT: 12.429 min Scan# 2042
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 75 Resp: 31528

Ion	Ratio	Lower	Upper
75	100		
110	36.0	26.5	54.9
112	24.0	17.0	35.2

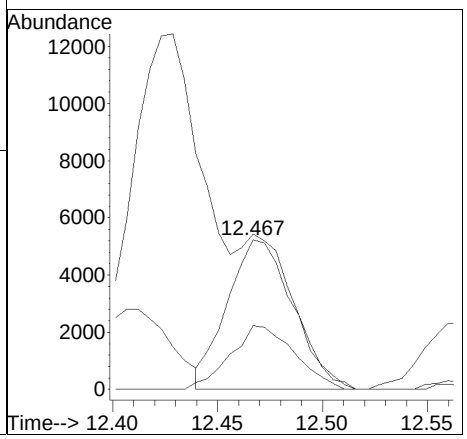


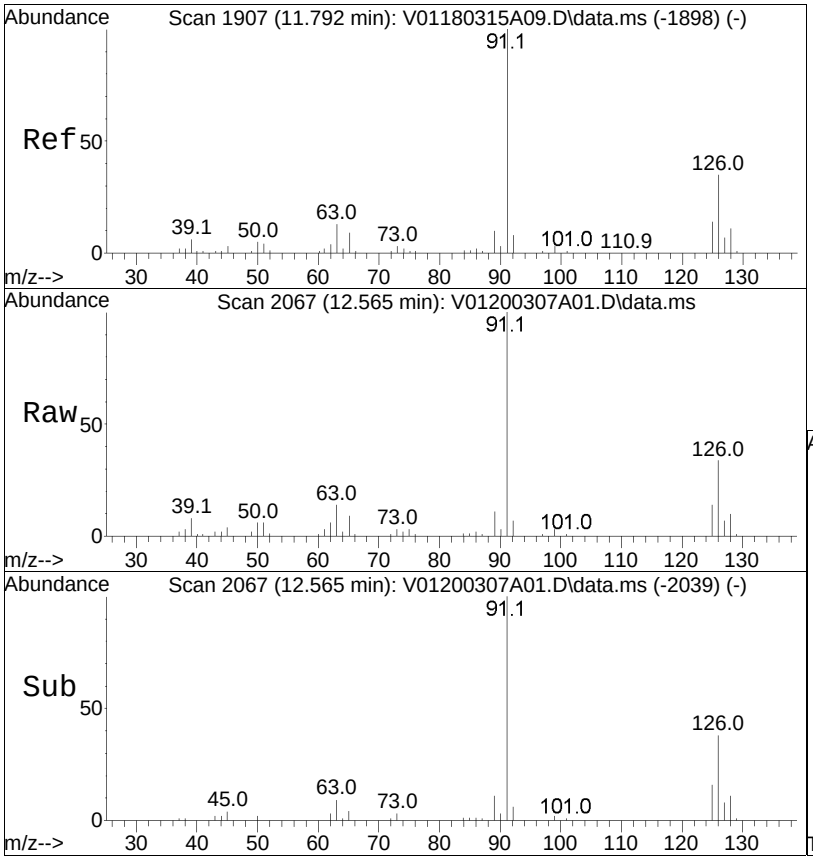


#92
trans-1,4-Dichloro-2-butene
Concen: 11.13 ug/L
RT: 12.467 min Scan# 2049
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 53 Resp: 11352

Ion	Ratio	Lower	Upper
53	100		
88	41.6	46.0	69.0#
75	0.0	107.0	160.4#

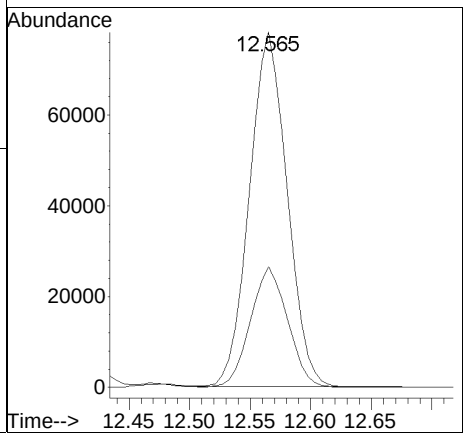


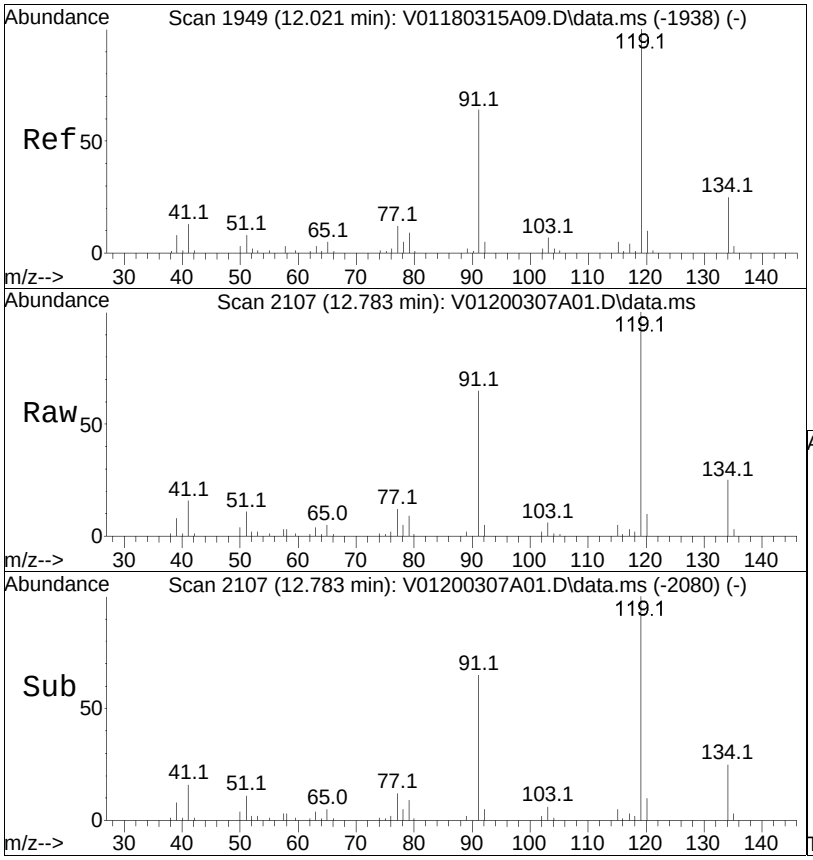


#93
4-Chlorotoluene
Concen: 11.16 ug/L
RT: 12.565 min Scan# 2067
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 91 Resp: 168639

Ion	Ratio	Lower	Upper
91	100		
126	33.6	28.2	42.2

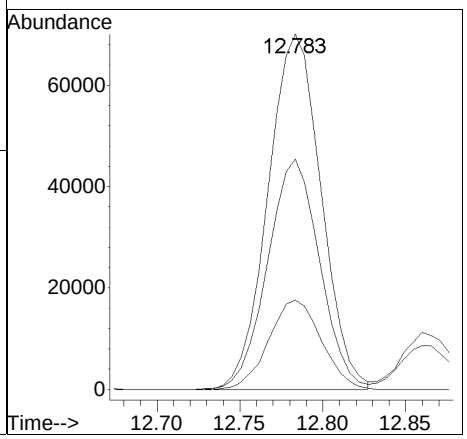


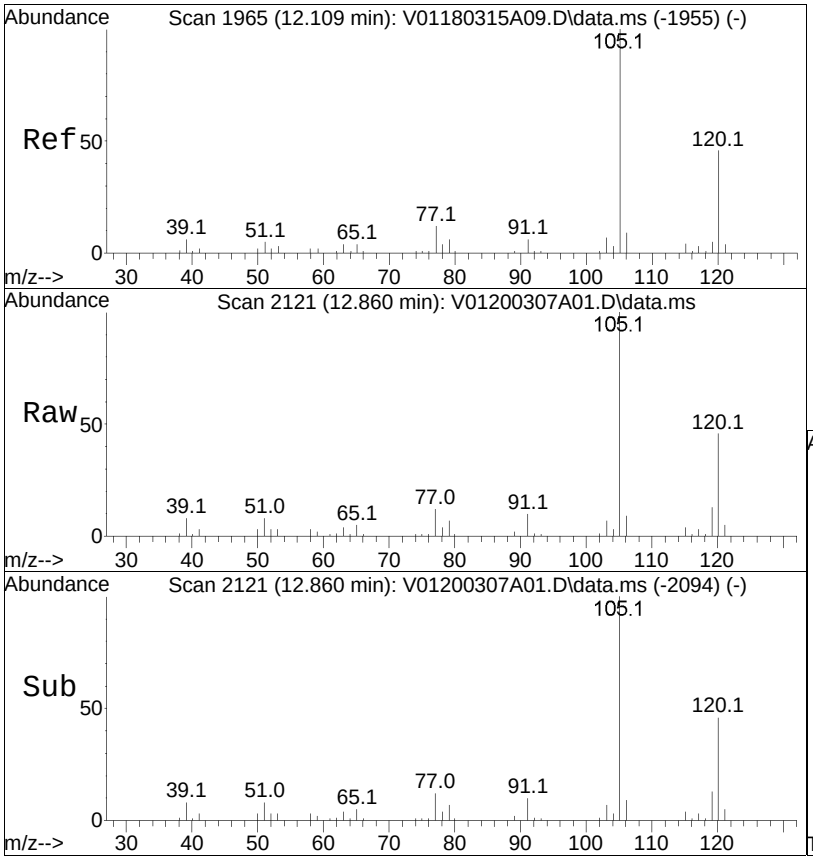


#94
tert-Butylbenzene
Concen: 10.81 ug/L
RT: 12.783 min Scan# 2107
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:119 Resp: 155854

Ion	Ratio	Lower	Upper
119	100		
91	63.7	52.5	78.7
134	24.9	20.9	31.3

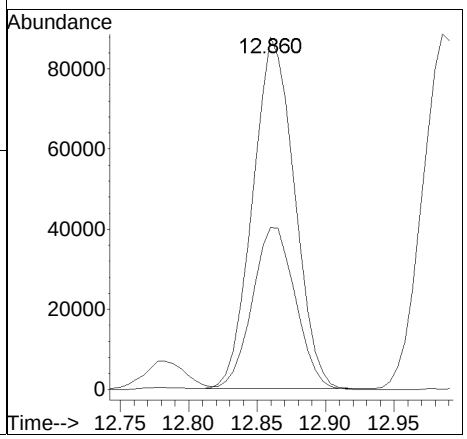


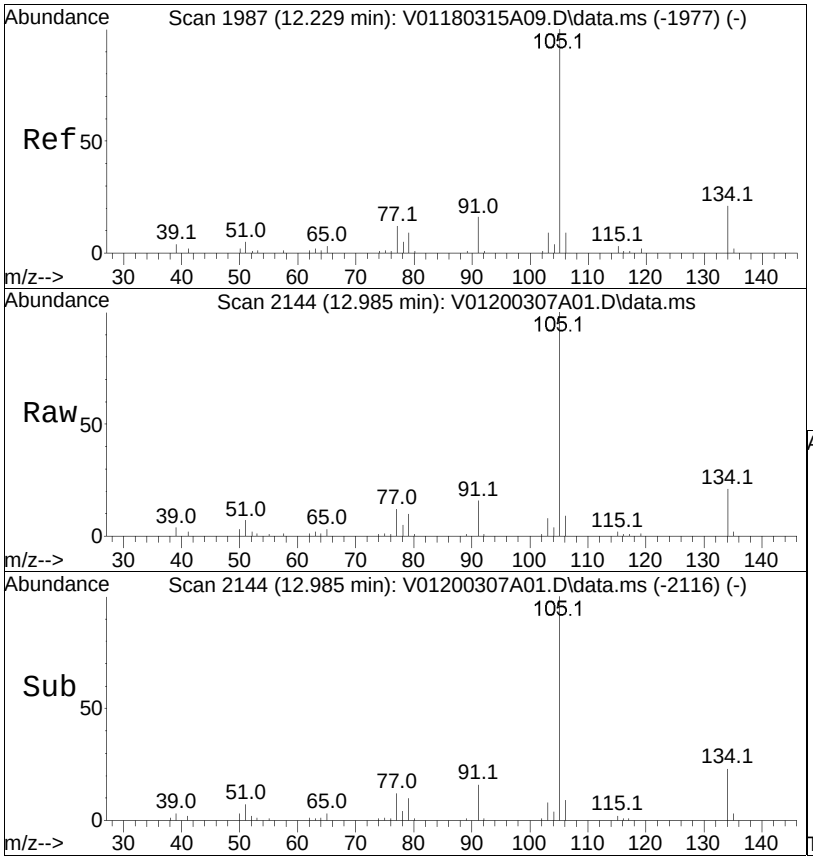


#97
1,2,4-Trimethylbenzene
Concen: 11.06 ug/L
RT: 12.860 min Scan# 2121
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:105 Resp: 185837

Ion	Ratio	Lower	Upper
105	100		
120	47.7	37.8	56.6

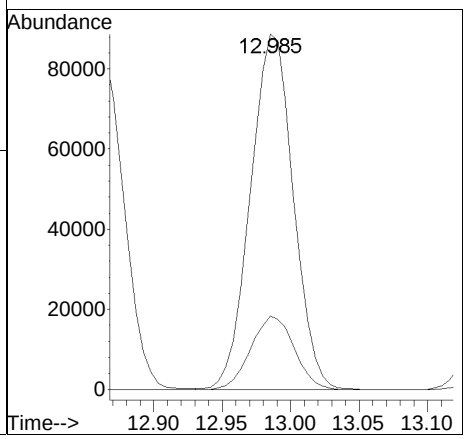


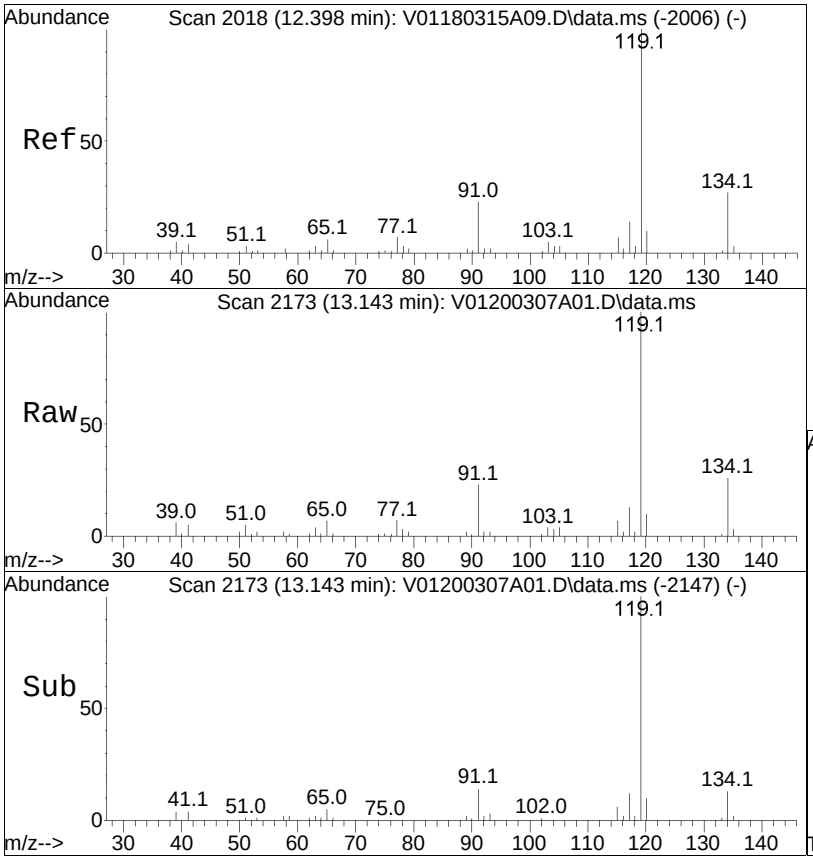


#98
sec-Butylbenzene
Concen: 10.74 ug/L
RT: 12.985 min Scan# 2144
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:105 Resp: 192927

Ion	Ratio	Lower	Upper
105	100		
134	20.7	14.0	29.0

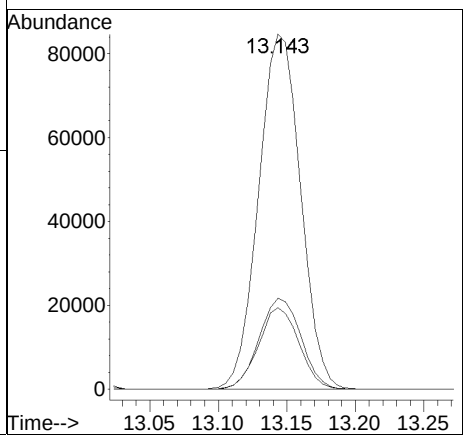


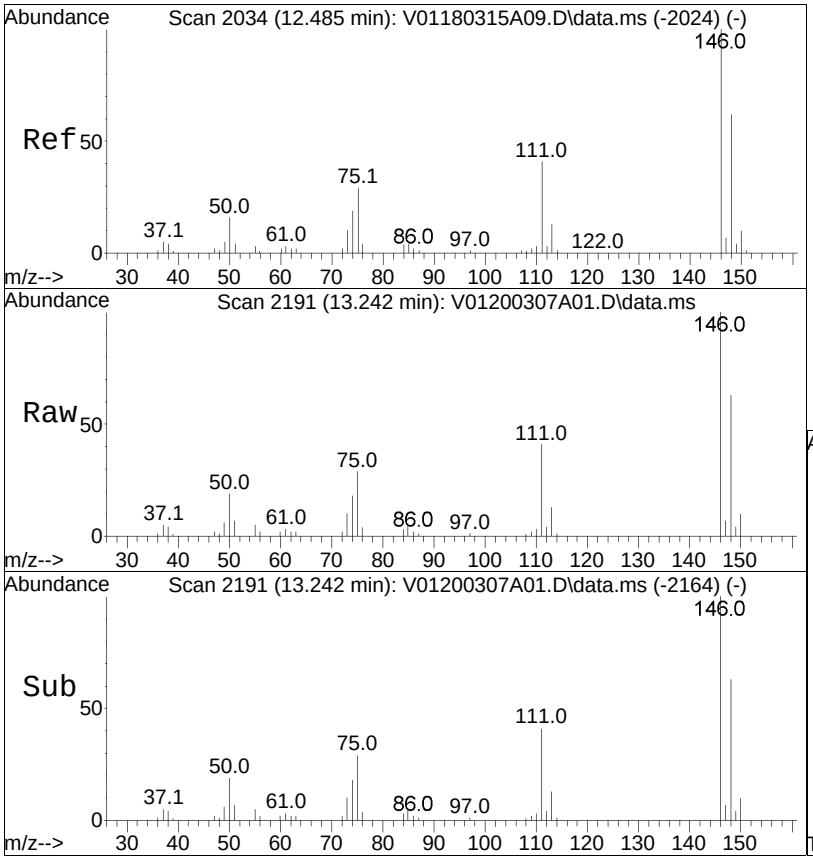


#99
p-Isopropyltoluene
Concen: 10.87 ug/L
RT: 13.143 min Scan# 2173
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:119 Resp: 180605

Ion	Ratio	Lower	Upper
119	100		
134	25.6	17.7	36.7
91	22.3	15.4	32.0

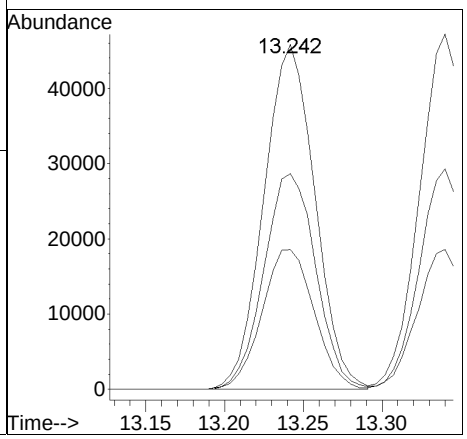


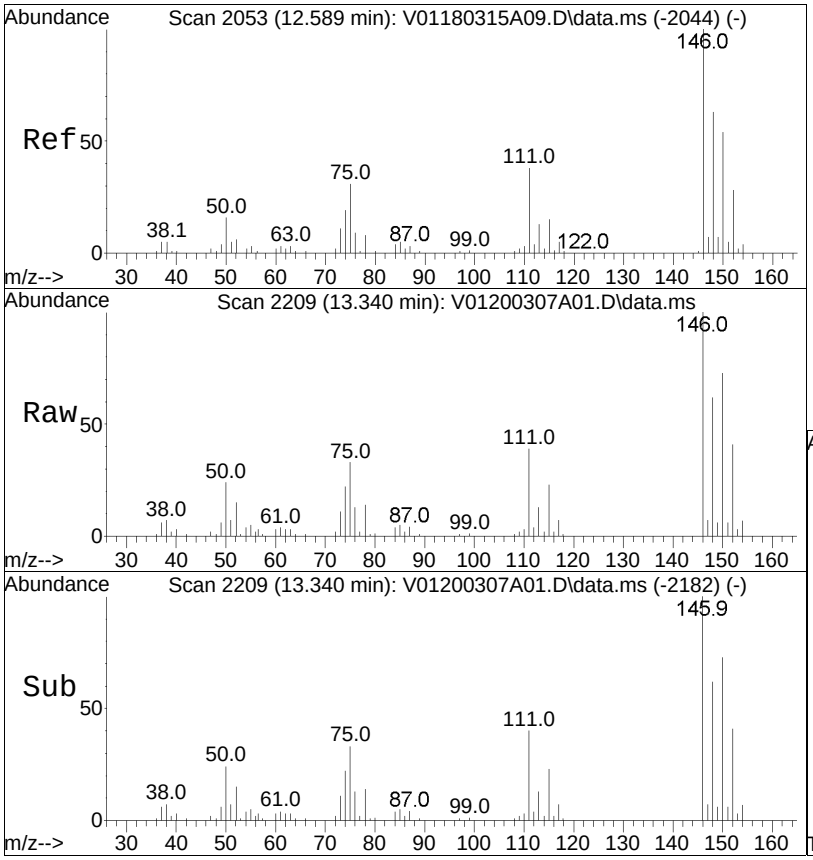


#100
1,3-Dichlorobenzene
Concen: 11.27 ug/L
RT: 13.242 min Scan# 2191
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:146 Resp: 103316

Ion	Ratio	Lower	Upper
146	100		
111	41.5	25.9	53.9
148	63.8	41.5	86.3

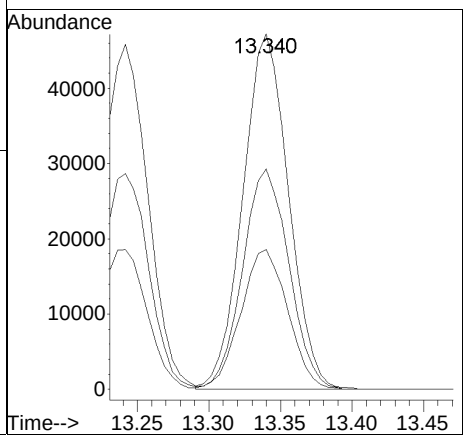


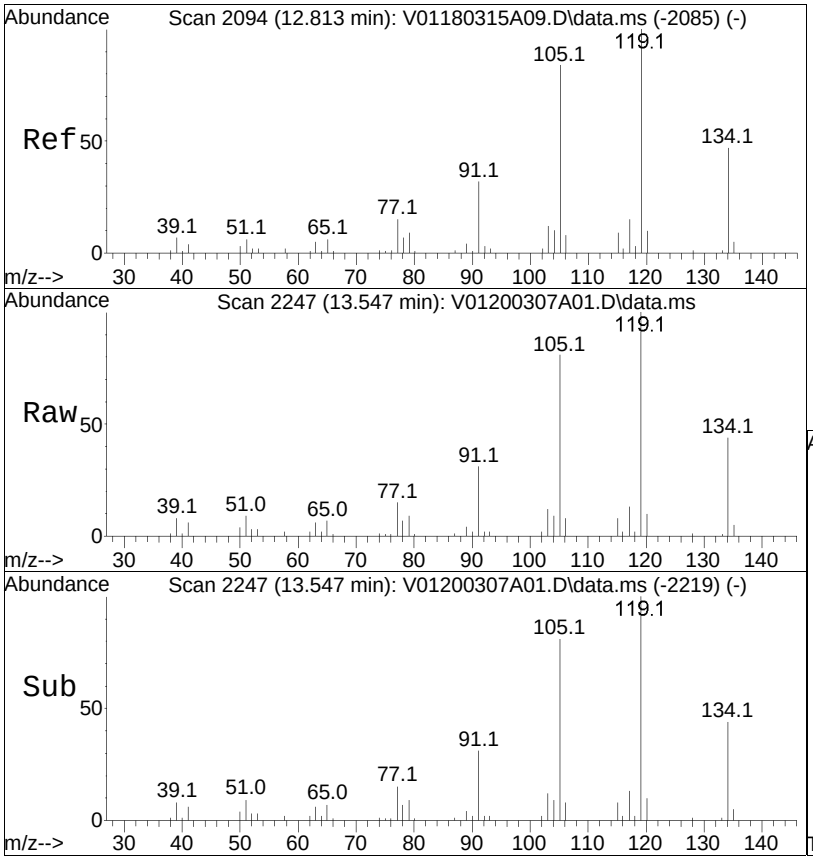


#101
1,4-Dichlorobenzene
Concen: 11.30 ug/L
RT: 13.340 min Scan# 2209
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:146 Resp: 104984

Ion	Ratio	Lower	Upper
146	100		
111	40.5	31.7	47.5
148	62.9	51.5	77.3

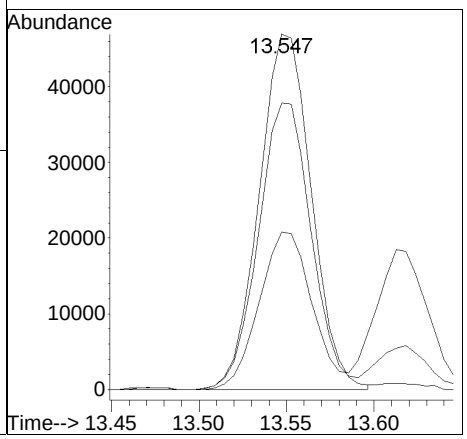


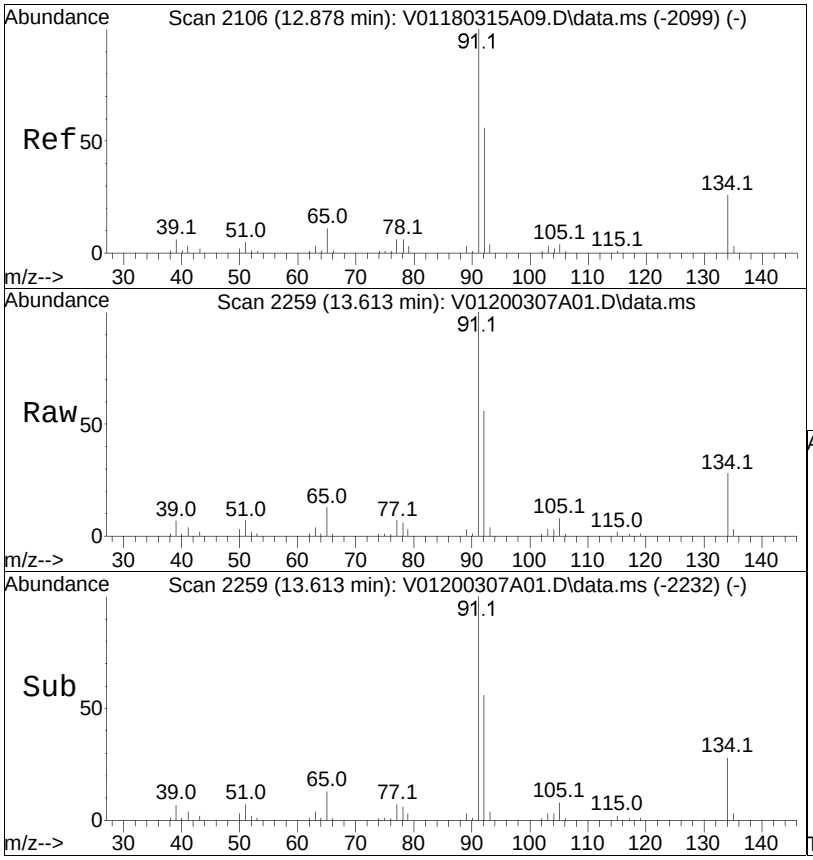


#102
p-Diethylbenzene
Concen: 10.95 ug/L
RT: 13.547 min Scan# 2247
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:119 Resp: 97496

Ion	Ratio	Lower	Upper
119	100		
105	81.8	54.1	112.3
134	45.1	31.5	65.3

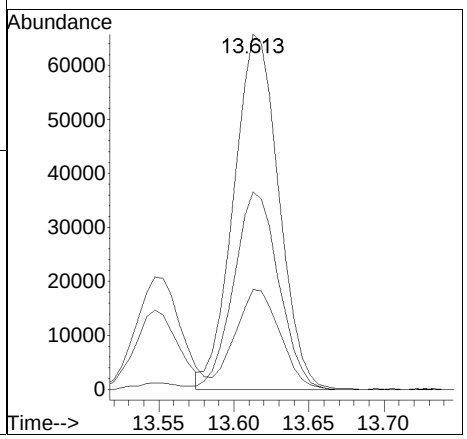


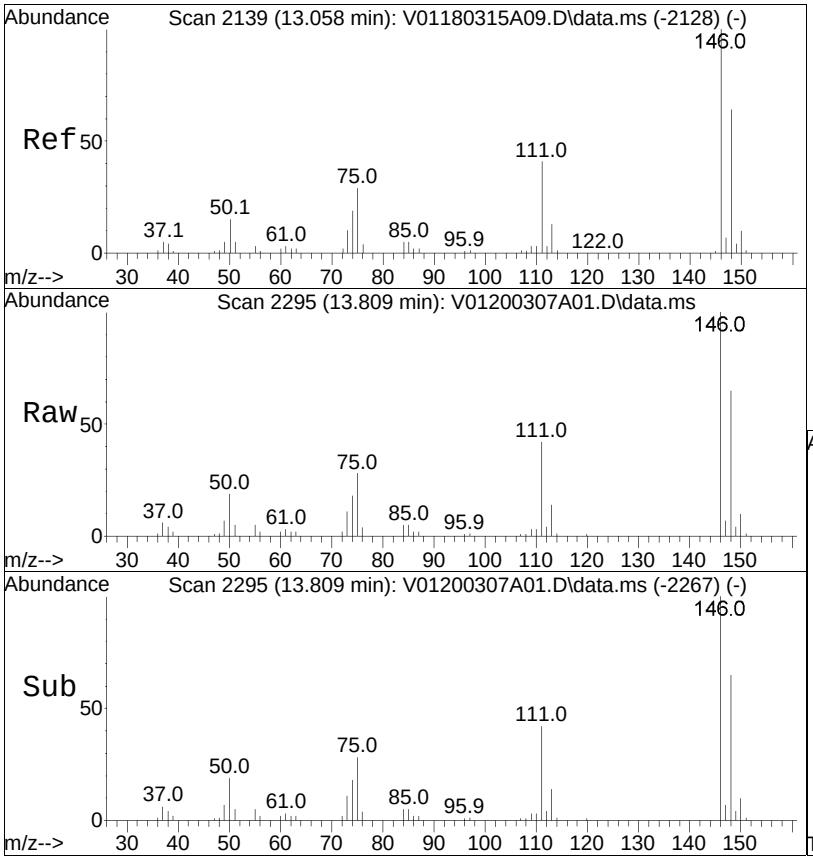


#103
n-Butylbenzene
Concen: 11.16 ug/L
RT: 13.613 min Scan# 2259
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion: 91 Resp: 137427

Ion	Ratio	Lower	Upper
91	100		
92	55.5	43.7	65.5
134	27.6	22.1	33.1

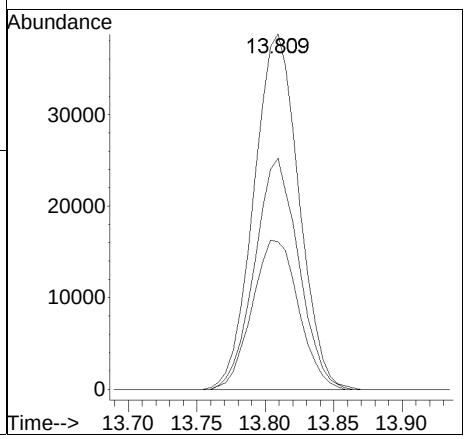


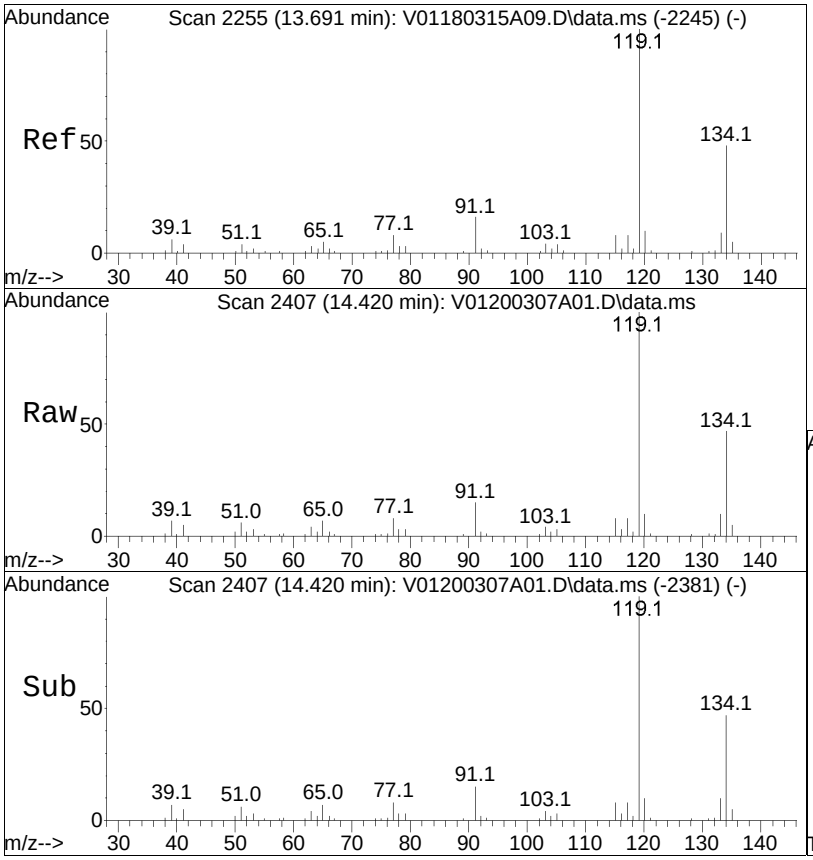


#104
1,2-Dichlorobenzene
Concen: 10.98 ug/L
RT: 13.809 min Scan# 2295
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:146 Resp: 88616

Ion	Ratio	Lower	Upper
146	100		
111	43.3	26.8	55.8
148	63.5	41.6	86.4

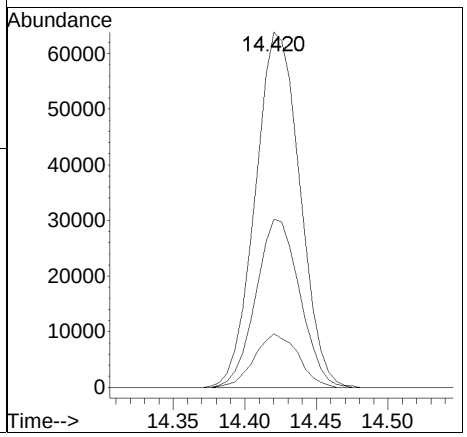


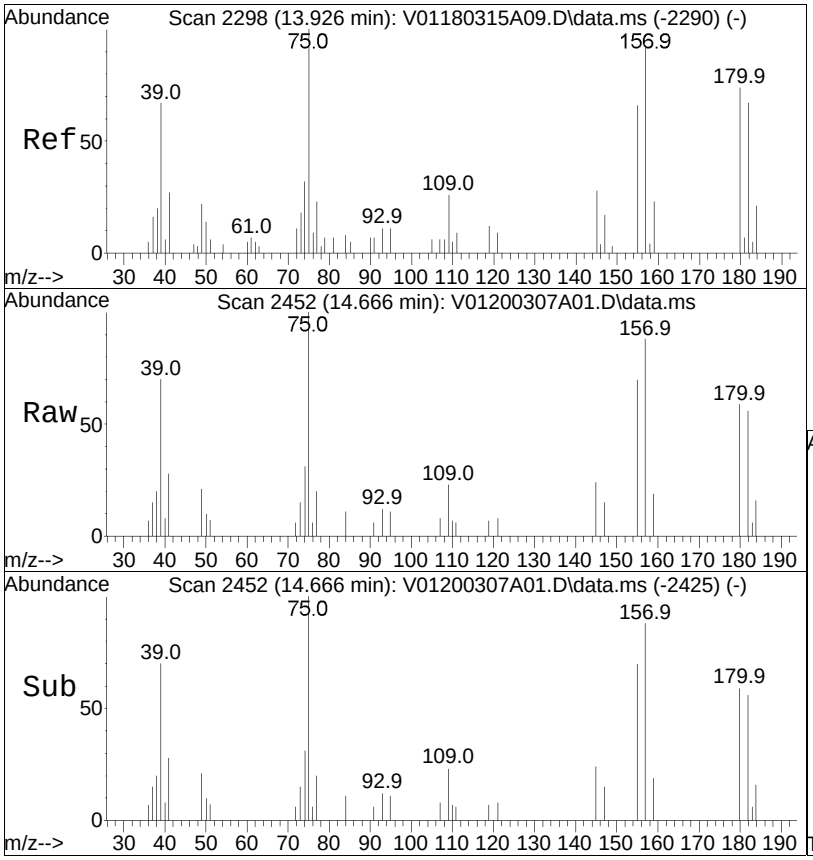


#105
1,2,4,5-Tetramethylbenzene
Concen: 10.30 ug/L
RT: 14.420 min Scan# 2407
Delta R.T. -0.006 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:119 Resp: 138194

Ion	Ratio	Lower	Upper
119	100		
134	46.7	31.9	66.1
91	14.9	10.3	21.5

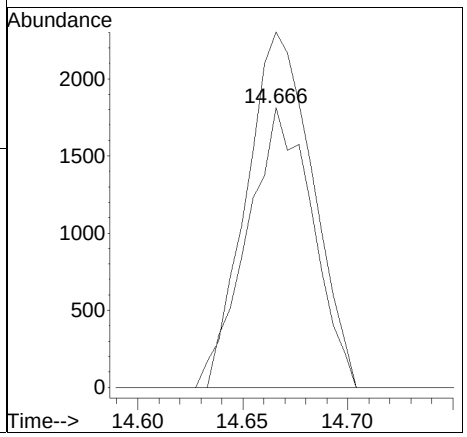


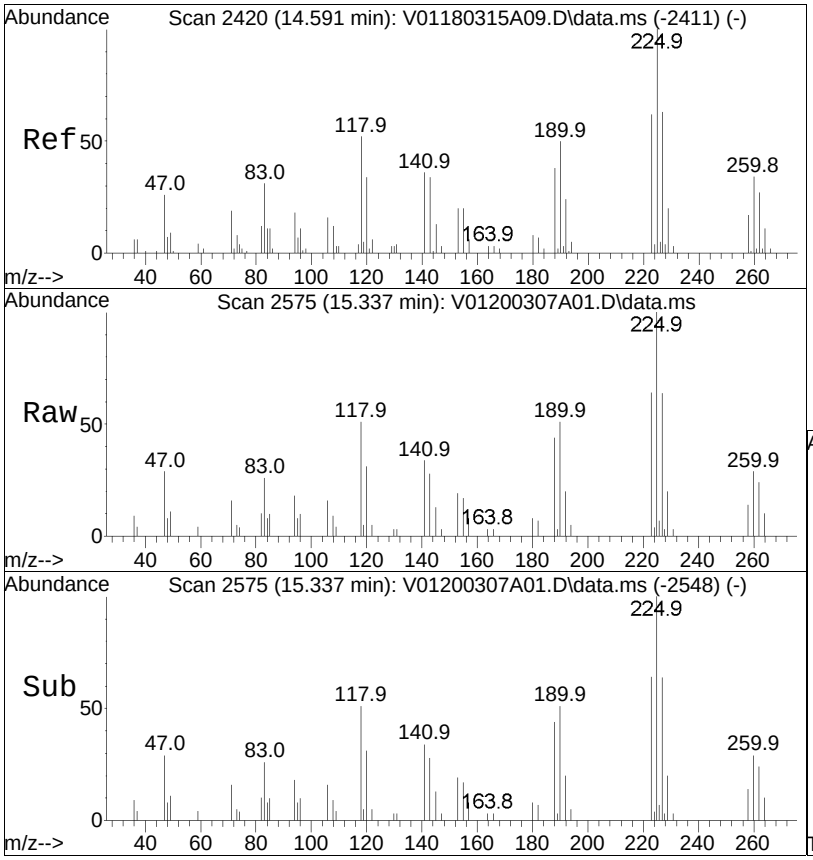


#106
1,2-Dibromo-3-chloropropane
Concen: 9.23 ug/L
RT: 14.666 min Scan# 2452
Delta R.T. -0.005 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:155 Resp: 3862

Ion	Ratio	Lower	Upper
155	100		
157	131.7	101.1	151.7

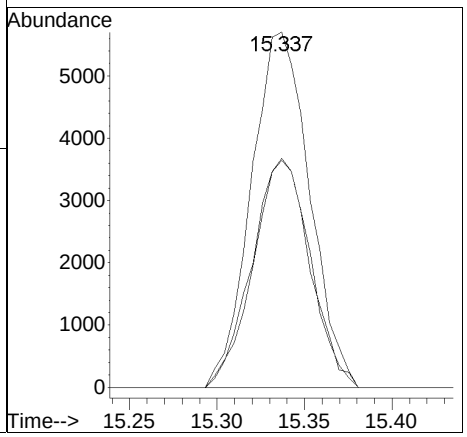


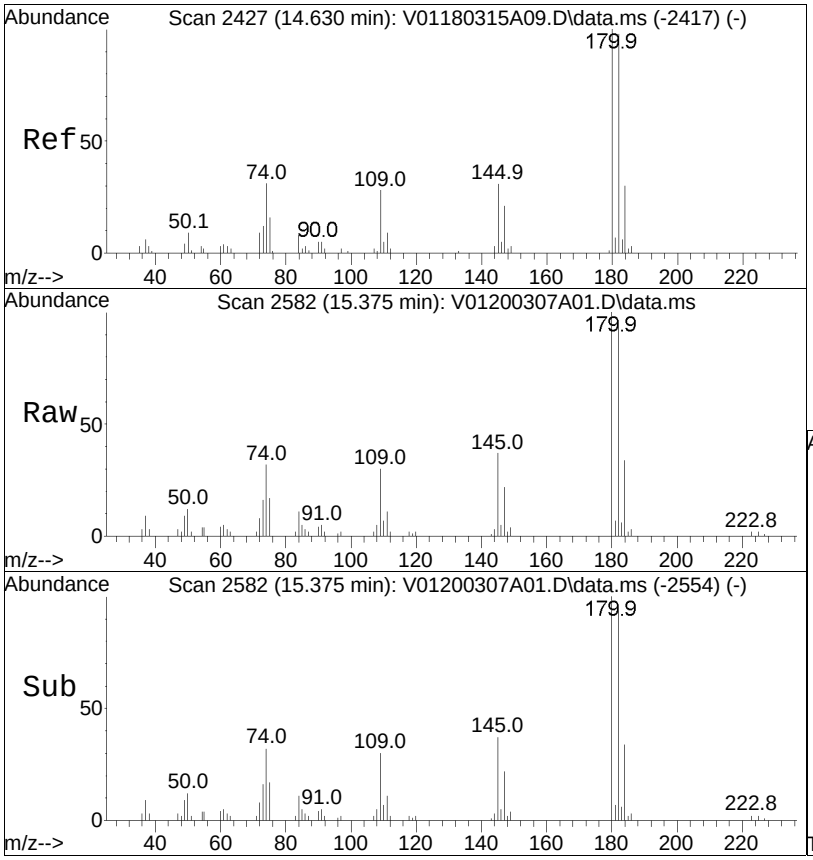


#108
Hexachlorobutadiene
Concen: 10.45 ug/L
RT: 15.337 min Scan# 2575
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:225 Resp: 13218

Ion	Ratio	Lower	Upper
225	100		
223	64.0	51.0	76.4
227	62.7	52.2	78.4

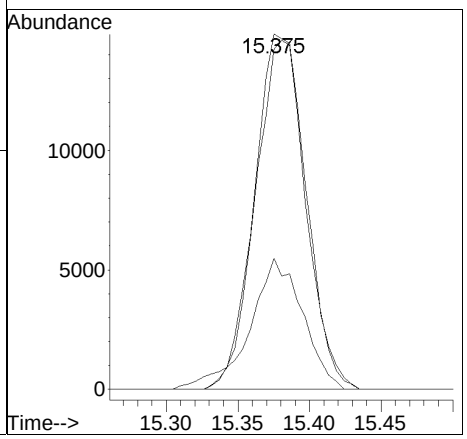


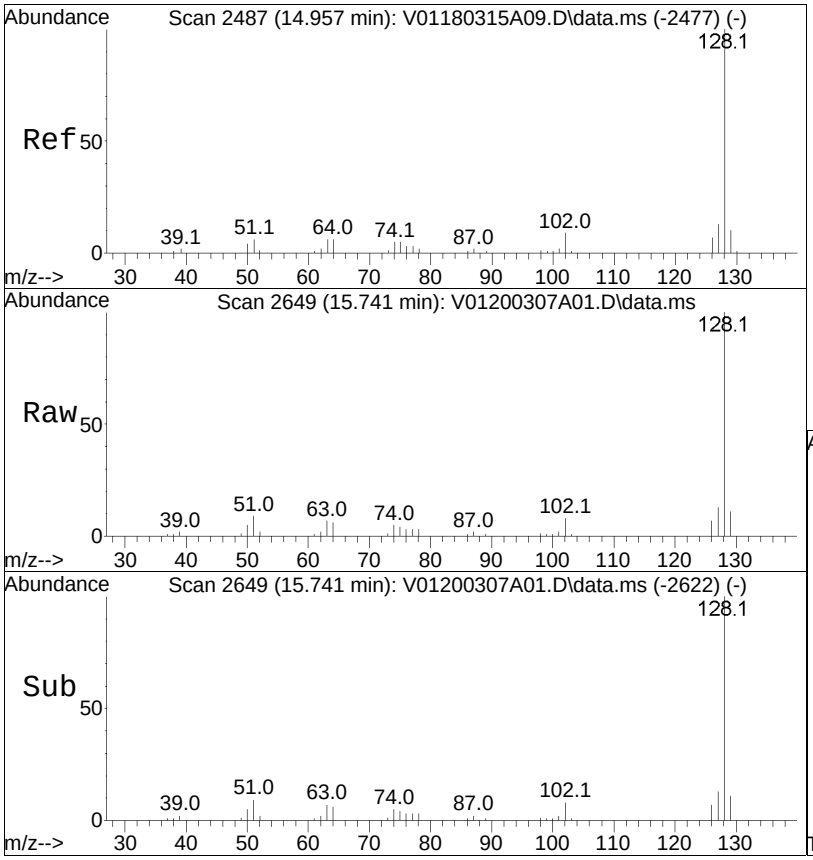


#109
1,2,4-Trichlorobenzene
Concen: 9.85 ug/L
RT: 15.375 min Scan# 2582
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:180 Resp: 37460

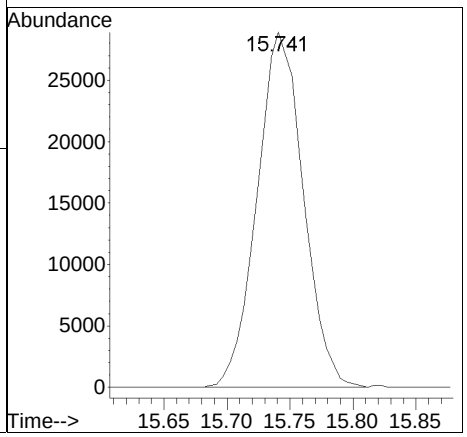
Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.8
145	37.6	26.1	39.1

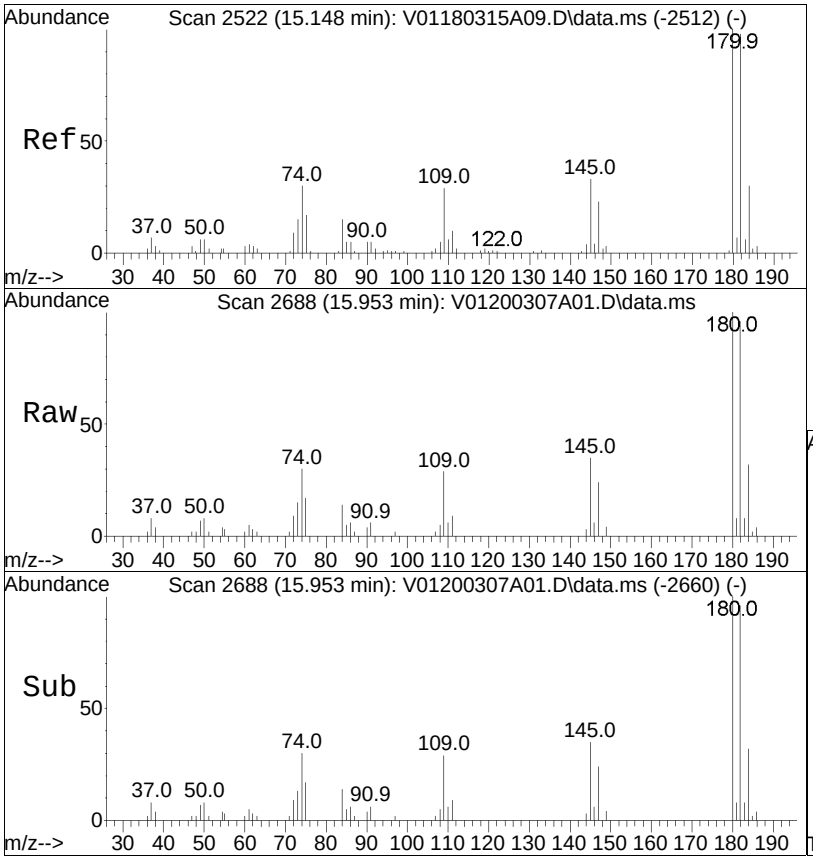




#110
Naphthalene
Concen: 8.76 ug/L
RT: 15.741 min Scan# 2649
Delta R.T. -0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:128 Resp: 73889

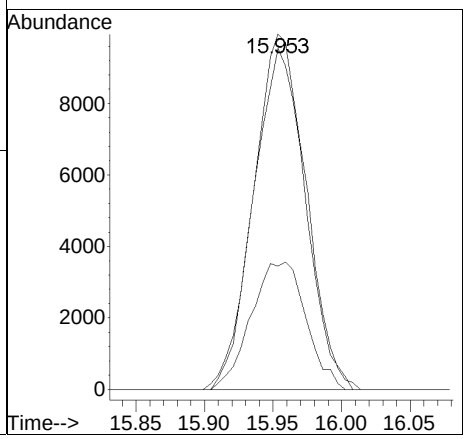




#111
1,2,3-Trichlorobenzene
Concen: 9.05 ug/L
RT: 15.953 min Scan# 2688
Delta R.T. 0.000 min
Lab File: V01200307A01.D
Acq: 7 Mar 2020 9:31 am

Tgt Ion:180 Resp: 26495

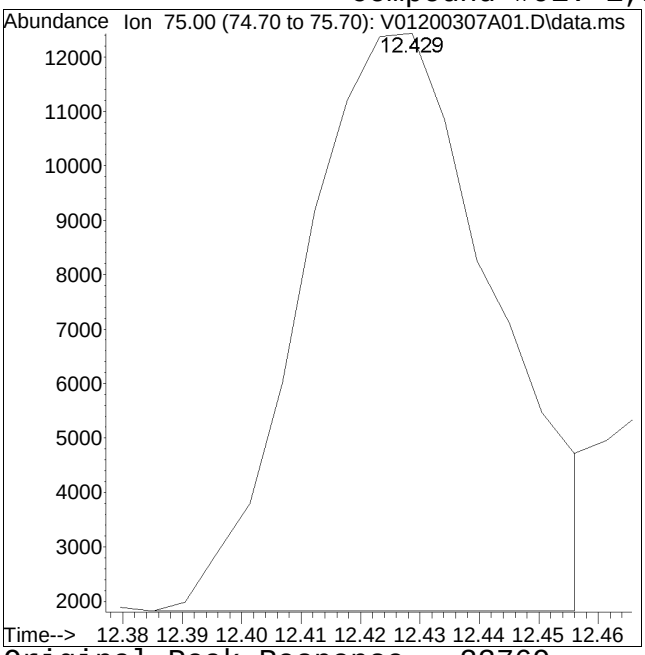
Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.4	113.0
145	37.4	25.0	37.6



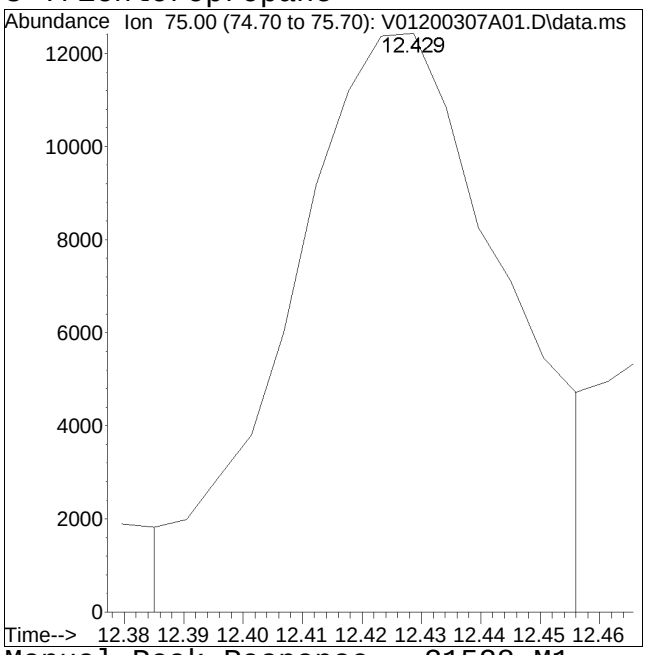
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200307A01.D Operator : VOA101:MKS
Date Inj'd : 3/7/2020 9:31 am Instrument : VOA 101
Sample : WG1348564-3,31,10,10 Quant Date : 3/7/2020 9:52 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 23769



Manual Peak Response = 31528 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A02.D
Acq On : 06 Mar 2020 10:11 am
Operator : VOA122:PD
Sample : WG1348135-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 10:33:07 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.827	96	257345	10.000	ug/L	0.00
Standard Area 1 = 254411			Recovery = 101.15%			
62) Chlorobenzene-d5	9.353	117	195420	10.000	ug/L	0.00
Standard Area 1 = 187639			Recovery = 104.15%			
83) 1,4-Dichlorobenzene-d4	12.107	152	100925	10.000	ug/L	0.00
Standard Area 1 = 100182			Recovery = 100.74%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.018	113	70964	9.547	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.47%			
46) 1,2-Dichloroethane-d4	5.541	65	105609	12.296	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.96%			
63) Toluene-d8	7.519	98	263262	10.427	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.27%			
87) 4-Bromofluorobenzene	10.874	95	98273	9.916	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.537	85	42693	9.644	ug/L	99
3) Chloromethane	1.725	50	55458	9.486	ug/L	97
4) Vinyl chloride	1.779	62	59200	9.021	ug/L	97
5) Bromomethane	2.076	94	25196	4.393	ug/L	100
6) Chloroethane	2.193	64	36296	7.665	ug/L	98
7) Trichlorofluoromethane	2.325	101	101420	11.329	ug/L	98
8) Ethyl ether	2.622	74	24927	9.424	ug/L #	1
10) 1,1-Dichloroethene	2.809	96	49597	9.830	ug/L #	74
11) Carbon disulfide	2.833	76	138828	10.538	ug/L	100
15) Methylene chloride	3.348	84	53942	9.437	ug/L	85
17) Acetone	3.395	43	10095	6.887	ug/L	97
18) trans-1,2-Dichloroethene	3.496	96	52450	9.676	ug/L	85
21) Methyl tert-butyl ether	3.598	73	136846	11.416	ug/L	95
25) 1,1-Dichloroethane	4.074	63	111168	10.205	ug/L	97
27) Acrylonitrile	4.121	53	11802	8.684	ug/L	95
29) Vinyl acetate	4.308	43	108360	11.661	ug/L	95
30) cis-1,2-Dichloroethene	4.581	96	64780	9.675	ug/L #	84
31) 2,2-Dichloropropane	4.690	77	100141	15.916	ug/L	96
32) Bromochloromethane	4.776	128	26859	9.673	ug/L #	83
34) Chloroform	4.846	83	112183	10.488	ug/L	97

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A02.D
Acq On : 06 Mar 2020 10:11 am
Operator : VOA122:PD
Sample : WG1348135-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 10:33:07 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Carbon tetrachloride	4.979	117	100885	11.078	ug/L		98
39) 1,1,1-Trichloroethane	5.049	97	109953	11.220	ug/L		96
41) 2-Butanone	5.143	43	14241	7.753	ug/L		95
42) 1,1-Dichloropropene	5.166	75	82538	10.065	ug/L		93
44) Benzene	5.416	78	224633	9.835	ug/L		95
47) 1,2-Dichloroethane	5.620	62	54101	9.360	ug/L		98
51) Trichloroethene	6.000	95	61259	9.480	ug/L		90
53) Dibromomethane	6.433	93	32526	9.415	ug/L	#	84
54) 1,2-Dichloropropane	6.545	63	53433	8.746	ug/L		94
57) Bromodichloromethane	6.614	83	84523	10.368	ug/L		98
60) 1,4-Dioxane	6.830	88	16753	416.934	ug/L	#	78
61) cis-1,3-Dichloropropene	7.306	75	105916	10.594	ug/L		93
64) Toluene	7.574	92	142720	10.159	ug/L		100
65) 4-Methyl-2-pentanone	8.011	58	13639	9.909	ug/L		96
66) Tetrachloroethene	8.018	166	68942	9.906	ug/L		90
68) trans-1,3-Dichloropropene	8.050	75	88452	11.677	ug/L		93
71) 1,1,2-Trichloroethane	8.237	83	35253	9.587	ug/L		98
72) Chlorodibromomethane	8.440	129	55539	10.214	ug/L		98
73) 1,3-Dichloropropane	8.557	76	77164	10.347	ug/L		100
74) 1,2-Dibromoethane	8.721	107	41903	9.378	ug/L		100
76) 2-Hexanone	9.017	43	21379	8.988	ug/L		95
77) Chlorobenzene	9.376	112	154296	9.772	ug/L		97
78) Ethylbenzene	9.415	91	285684	10.450	ug/L		96
79) 1,1,1,2-Tetrachloroethane	9.454	131	59192	10.211	ug/L		94
80) p/m Xylene	9.610	106	216994	19.714	ug/L		89
81) o Xylene	10.148	106	203130	19.604	ug/L		86
82) Styrene	10.219	104	336775	19.791	ug/L		89
84) Bromoform	10.234	173	36831	9.998	ug/L		98
86) Isopropylbenzene	10.546	105	326343	9.934	ug/L		96
88) Bromobenzene	10.984	156	67536	9.887	ug/L		99
89) n-Propylbenzene	11.038	91	347222	10.120	ug/L		95
91) 1,1,2,2-Tetrachloroethane	11.124	83	48732	9.598	ug/L		100
92) 4-Ethyltoluene	11.171	105	274469	10.277	ug/L		96
93) 2-Chlorotoluene	11.202	91	236203	10.778	ug/L		93
94) 1,3,5-Trimethylbenzene	11.272	105	237744	10.191	ug/L		96
95) 1,2,3-Trichloropropane	11.265	75	43835	10.065	ug/L		97
96) trans-1,4-Dichloro-2-b...	11.319	53	14759	10.222	ug/L		84
97) 4-Chlorotoluene	11.390	91	208007	10.452	ug/L		95
98) tert-Butylbenzene	11.616	119	200144	9.717	ug/L		91

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A02.D
Acq On : 06 Mar 2020 10:11 am
Operator : VOA122:PD
Sample : WG1348135-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 10:33:07 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2020\200306A\V22200306A01.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	1,2,4-Trimethylbenzene	11.694	105	238313	10.547	ug/L	95
102)	sec-Butylbenzene	11.811	105	295349	10.035	ug/L	93
103)	p-Isopropyltoluene	11.967	119	242610	9.493	ug/L	95
104)	1,3-Dichlorobenzene	12.023	146	130451	9.901	ug/L	98
105)	1,4-Dichlorobenzene	12.121	146	129733	10.002	ug/L	98
106)	p-Diethylbenzene	12.343	119	131738	10.116	ug/L	96
107)	n-Butylbenzene	12.406	91	208690	10.432	ug/L	96
108)	1,2-Dichlorobenzene	12.545	146	113576	9.698	ug/L	97
109)	1,2,4,5-Tetramethylben...	13.144	119	180155	10.346	ug/L	96
110)	1,2-Dibromo-3-chloropr...	13.332	155	7416	8.309	ug/L	91
112)	Hexachlorobutadiene	13.944	225	29255	11.868	ug/L	98
113)	1,2,4-Trichlorobenzene	13.965	180	69598	10.358	ug/L	99
114)	Naphthalene	14.265	128	141389	9.074	ug/L	100
115)	1,2,3-Trichlorobenzene	14.432	180	63039	10.230	ug/L	99

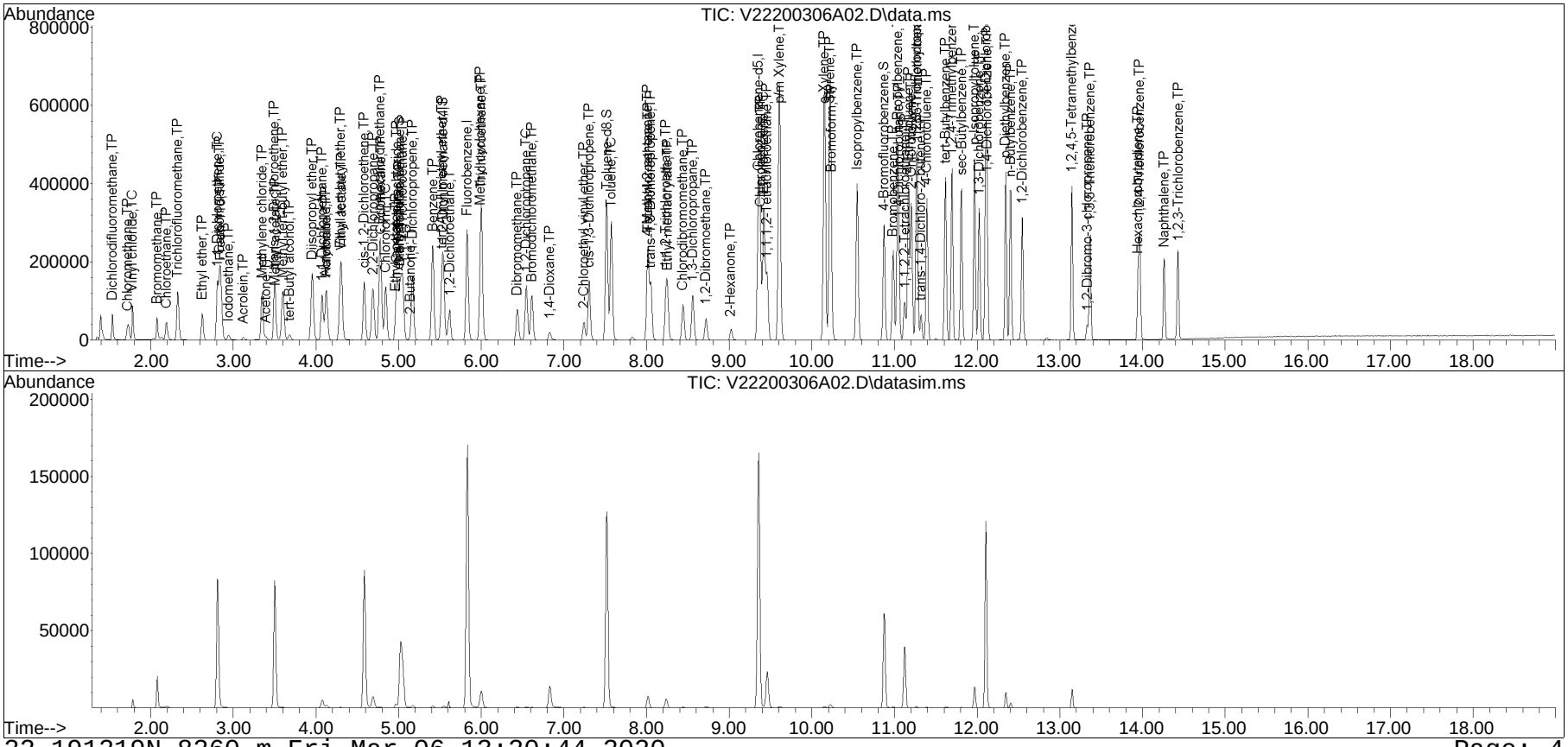
(#) = qualifier out of range (m) = manual integration (+) = signals summed

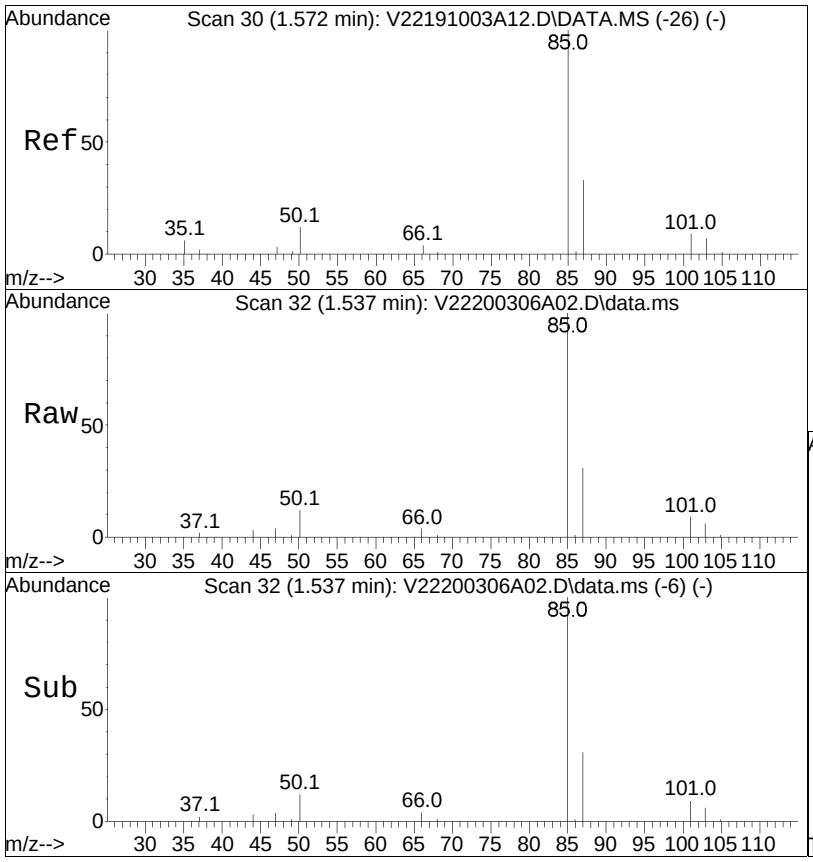
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2020\200306A\
Data File : V22200306A02.D
Acq On : 06 Mar 2020 10:11 am
Operator : VOA122:PD
Sample : WG1348135-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1348135,ICAL16379 (Sig #1); WG,ICAL16379 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 10:33:07 2020
Quant Method : I:\VOLATILES\VOA122\2020\200306A\V122_191219N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Dec 20 07:20:50 2019
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox00306A\V22200306A01.D•

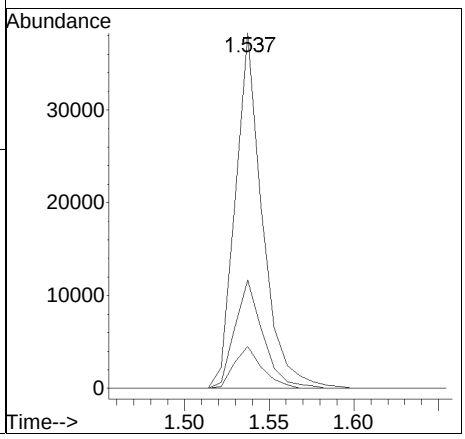


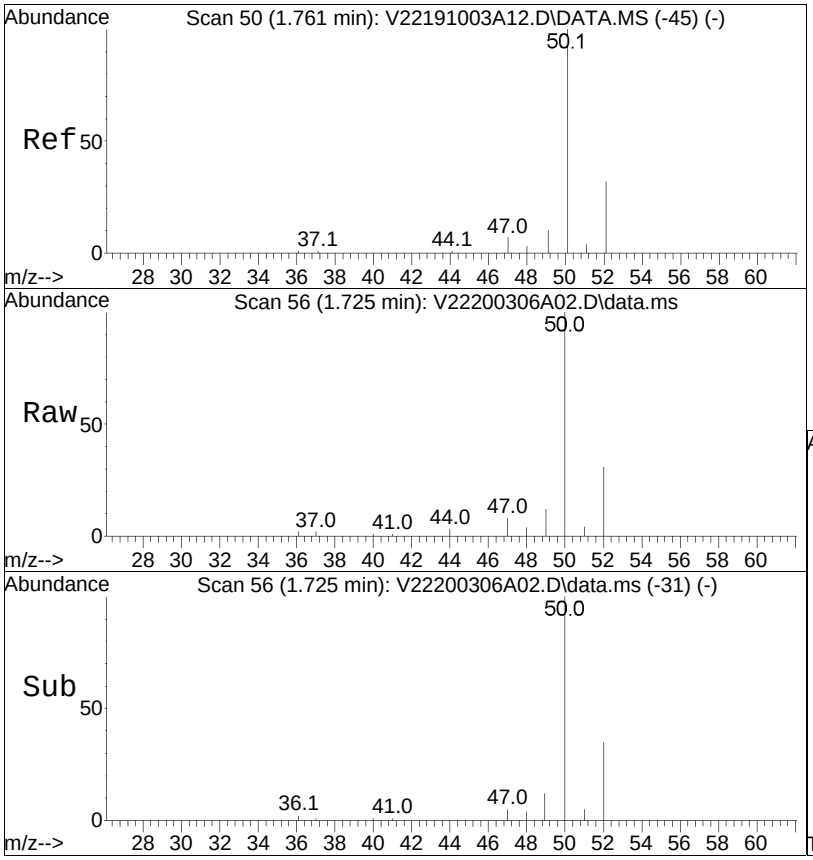


#2
Dichlorodifluoromethane
Concen: 9.64 ug/L
RT: 1.537 min Scan# 32
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 85 Resp: 42693

Ion	Ratio	Lower	Upper
85	100		
87	31.6	20.7	42.9
50	12.2	6.8	14.2

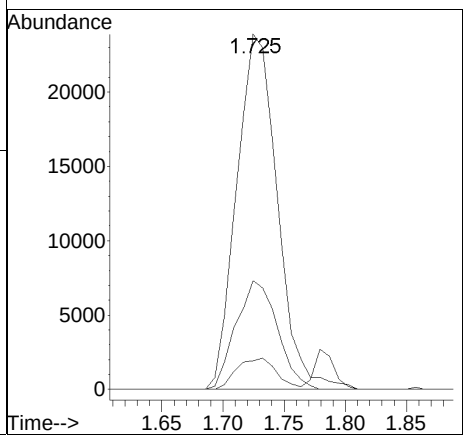


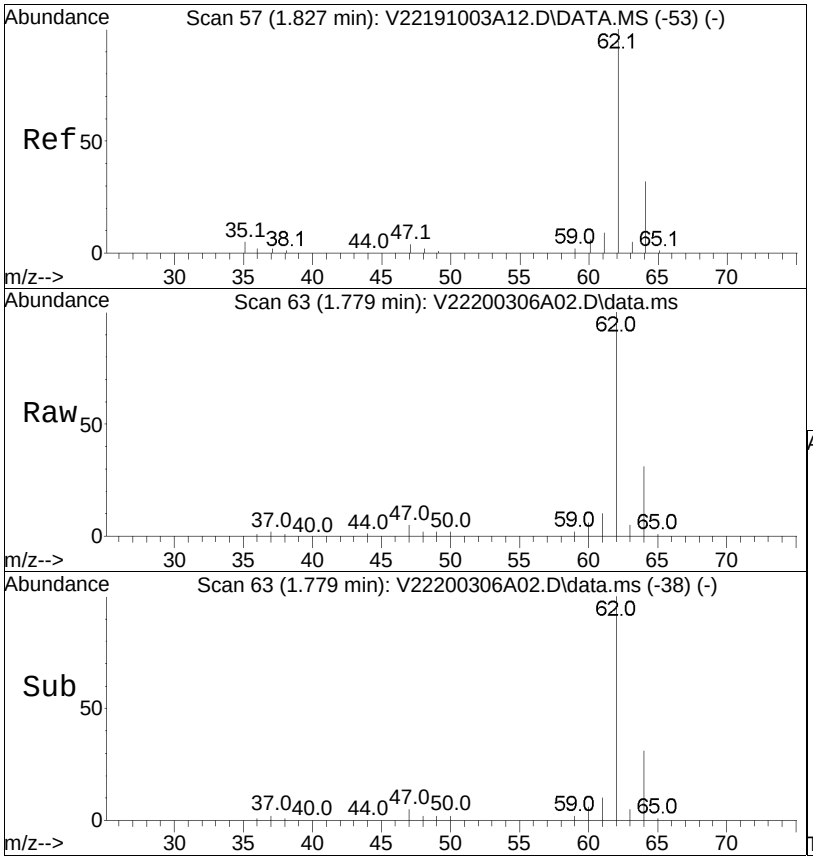


#3
Chloromethane
Concen: 9.49 ug/L
RT: 1.725 min Scan# 56
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 50 Resp: 55458

Ion	Ratio	Lower	Upper
50	100		
52	31.1	12.8	52.8
47	8.7	0.0	30.0

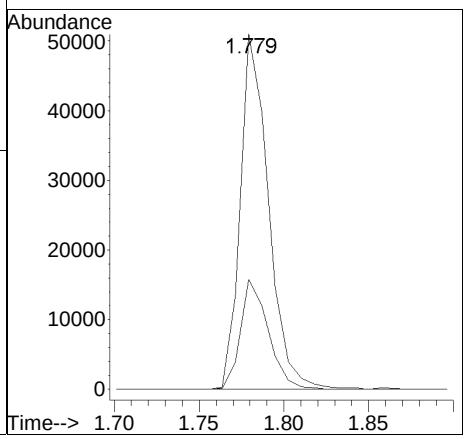


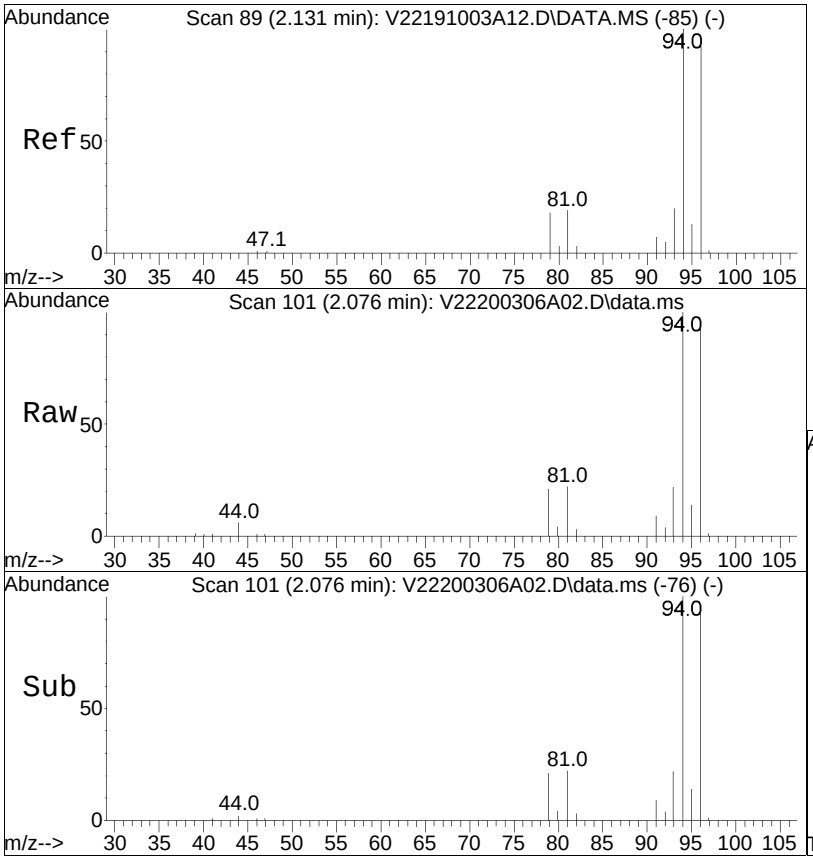


#4
Vinyl chloride
Concen: 9.02 ug/L
RT: 1.779 min Scan# 63
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 62 Resp: 59200

Ion	Ratio	Lower	Upper
62	100		
64	30.5	12.0	52.0

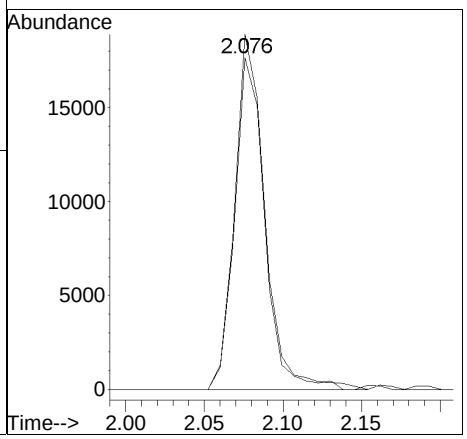


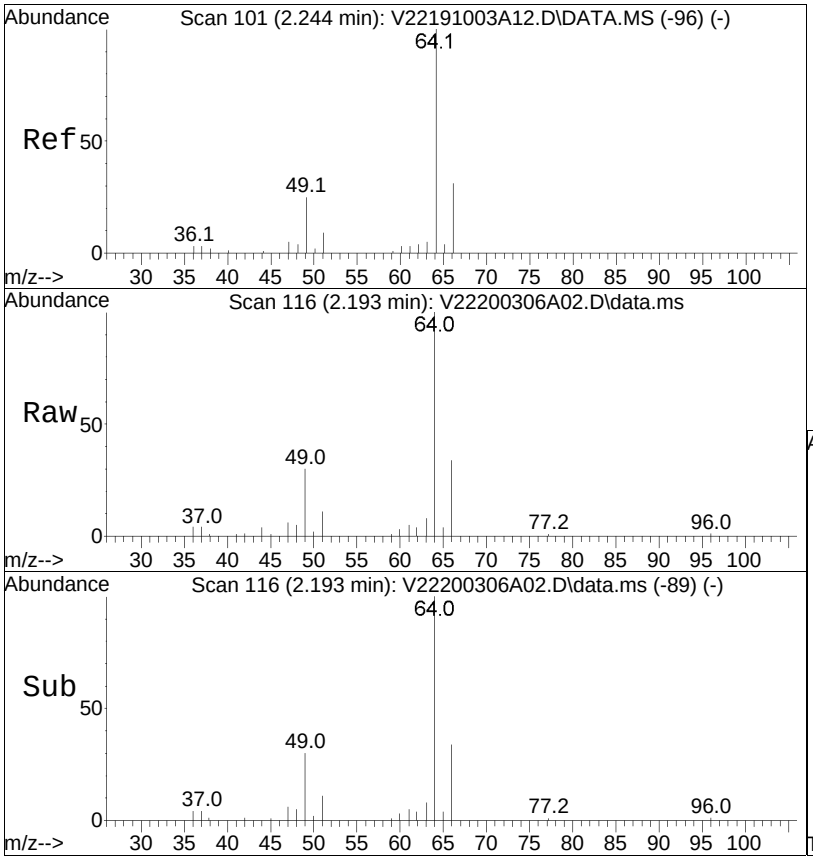


#5
Bromomethane
Concen: 4.39 ug/L
RT: 2.076 min Scan# 101
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 94 Resp: 25196

Ion	Ratio	Lower	Upper
94	100		
96	93.0	72.8	112.8

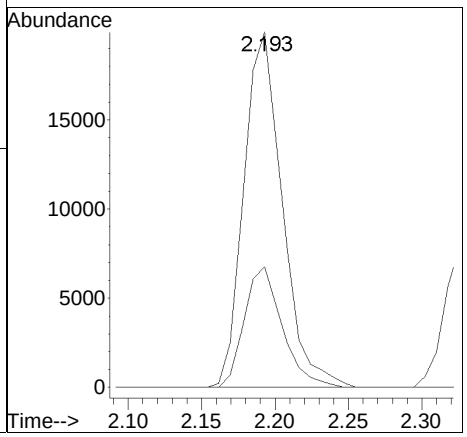


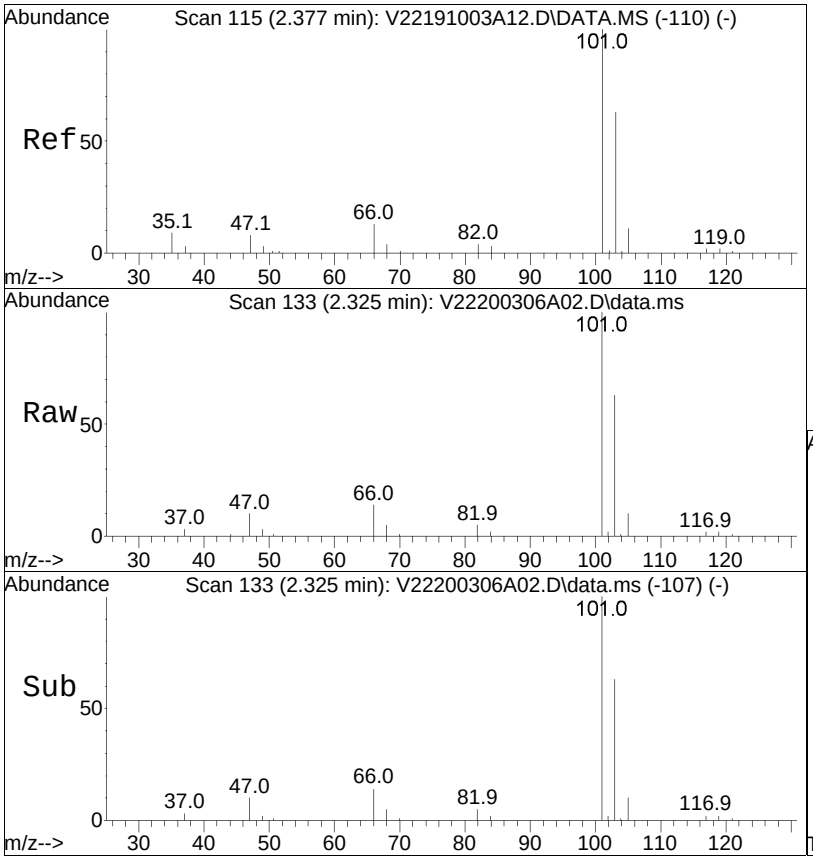


#6
Chloroethane
Concen: 7.66 ug/L
RT: 2.193 min Scan# 116
Delta R.T. 0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 64 Resp: 36296

Ion	Ratio	Lower	Upper
64	100		
66	33.5	12.2	52.2

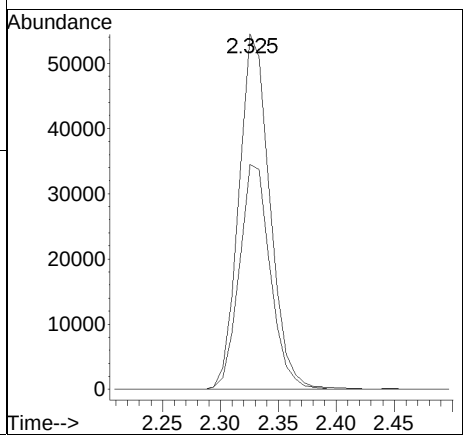


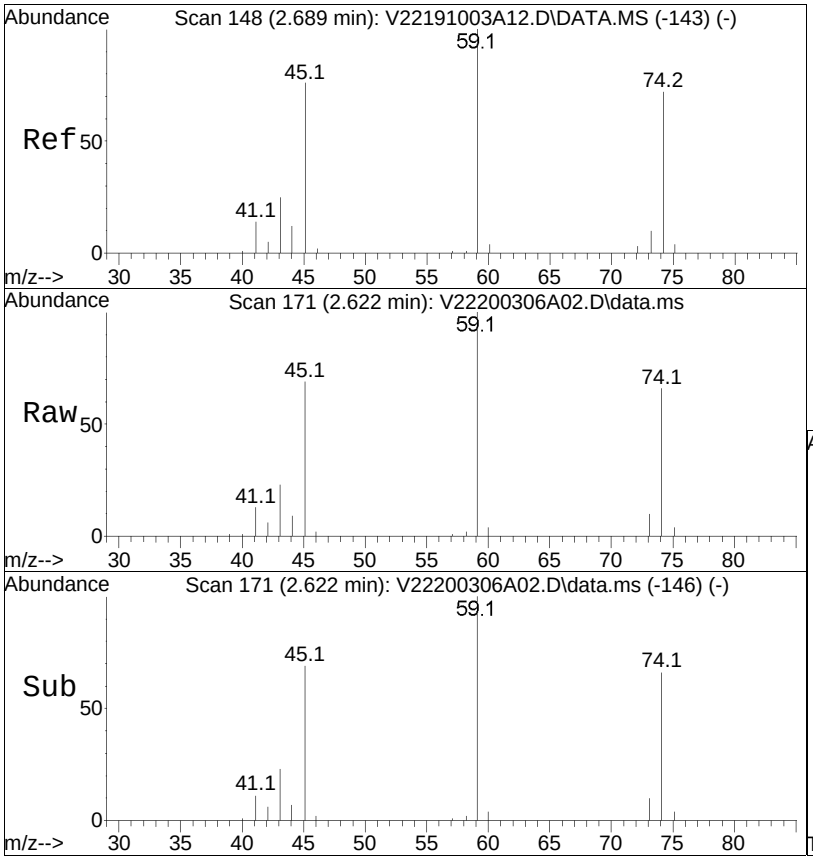


#7
Trichlorofluoromethane
Concen: 11.33 ug/L
RT: 2.325 min Scan# 133
Delta R.T. -0.001 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:101 Resp: 101420

Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.6	77.4

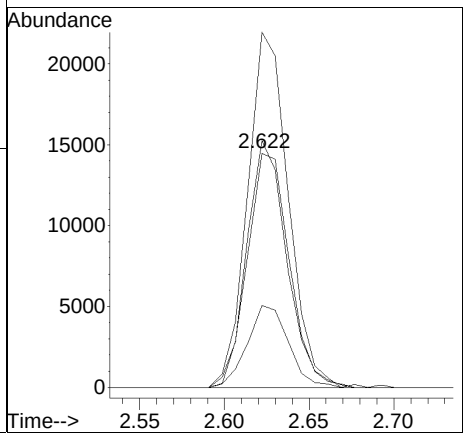


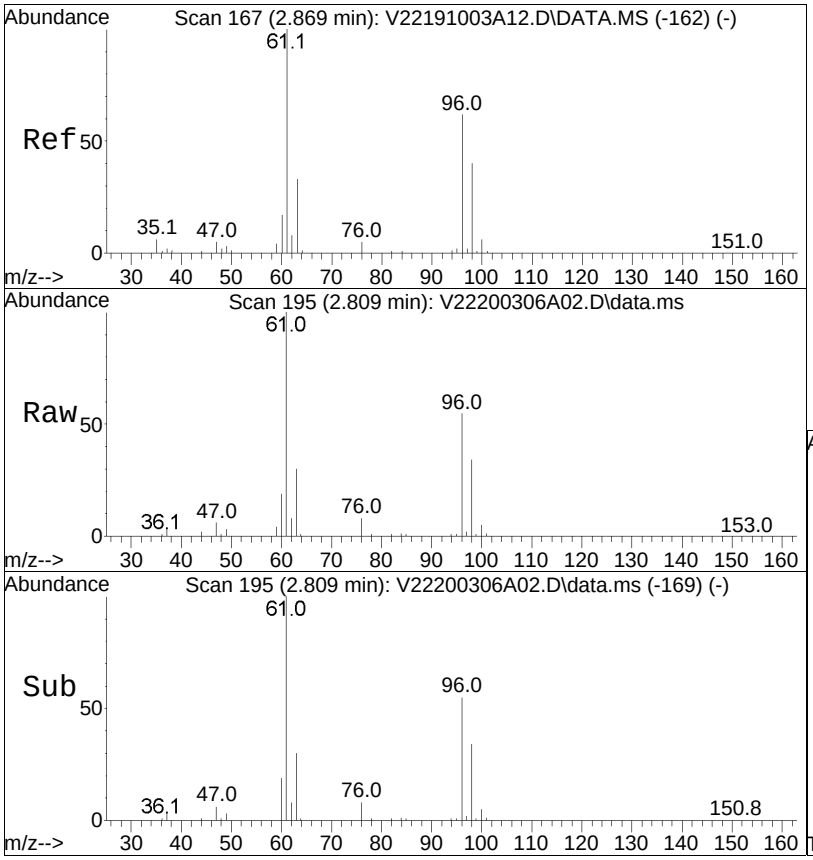


#8
Ethyl ether
Concen: 9.42 ug/L
RT: 2.622 min Scan# 171
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 74 Resp: 24927

Ion	Ratio	Lower	Upper
74	100		
59	147.9	2122.4	4408.0#
45	100.9	1435.1	2980.5#
43	34.4	407.9	847.3#

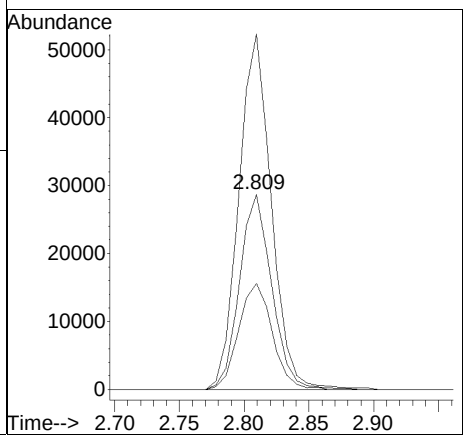


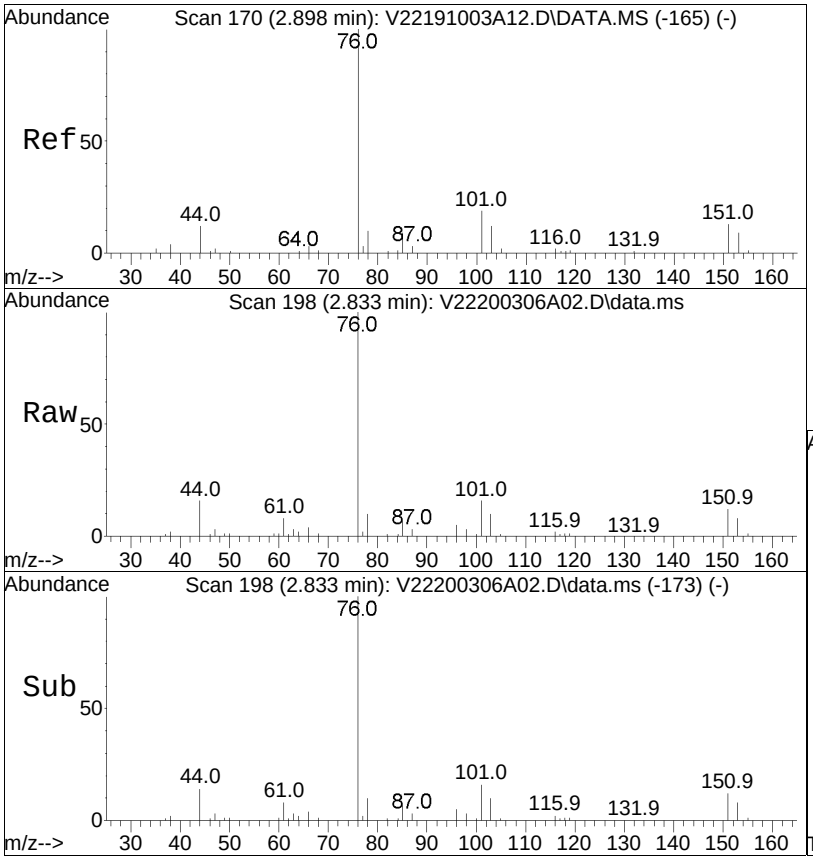


#10
1,1-Dichloroethene
Concen: 9.83 ug/L
RT: 2.809 min Scan# 195
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 96 Resp: 49597

Ion	Ratio	Lower	Upper
96	100		
61	183.7	117.0	175.4#
63	56.7	37.8	56.6#

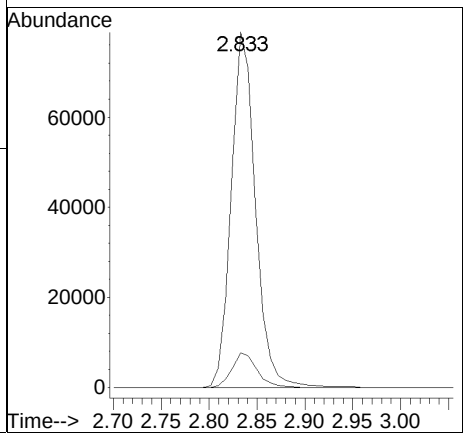


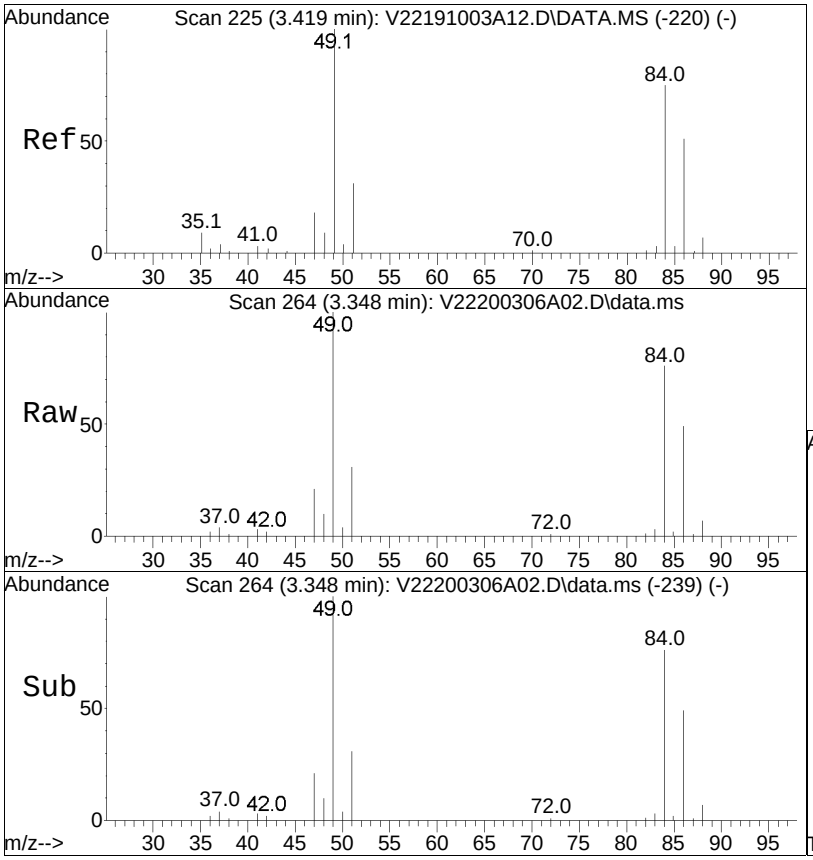


#11
Carbon disulfide
Concen: 10.54 ug/L
RT: 2.833 min Scan# 198
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 76 Resp: 138828

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

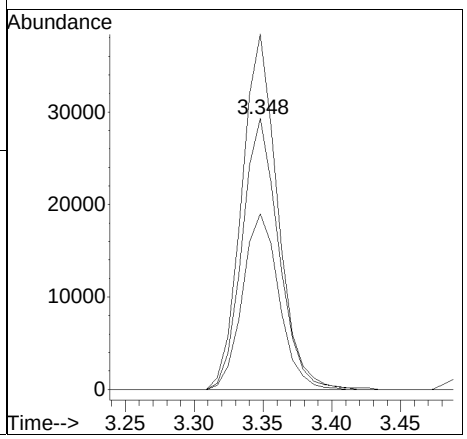


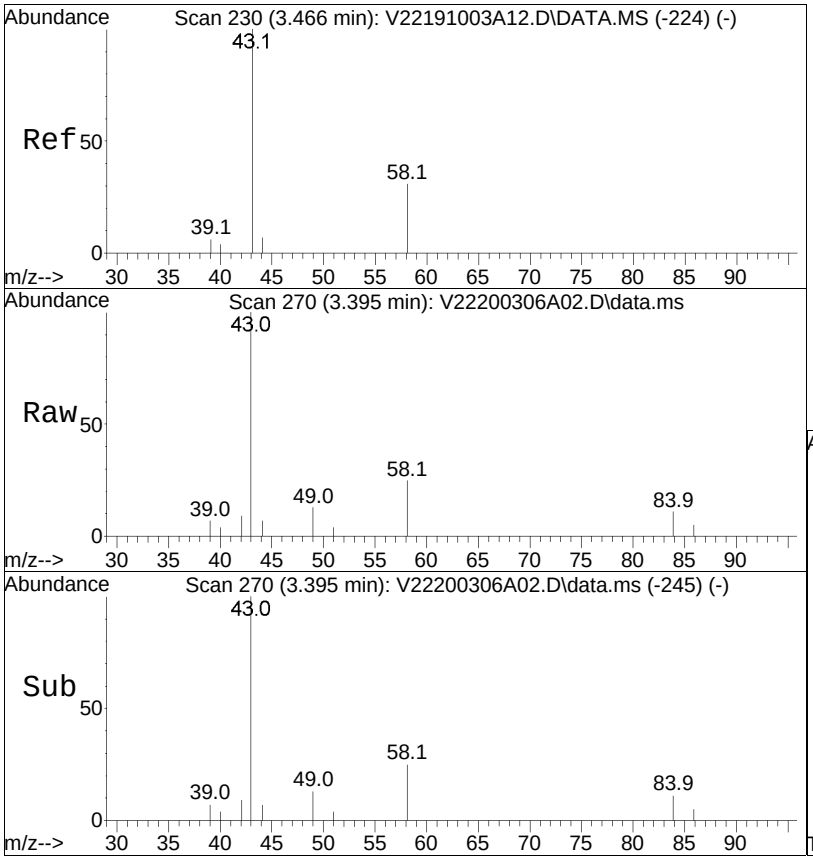


#15
Methylene chloride
Concen: 9.44 ug/L
RT: 3.348 min Scan# 264
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 84 Resp: 53942

Ion	Ratio	Lower	Upper
84	100		
86	65.1	41.5	86.3
49	129.4	68.8	143.0

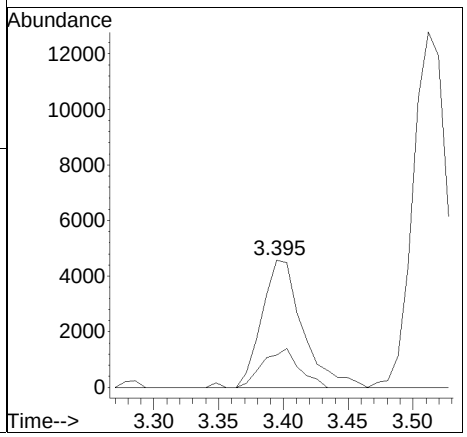


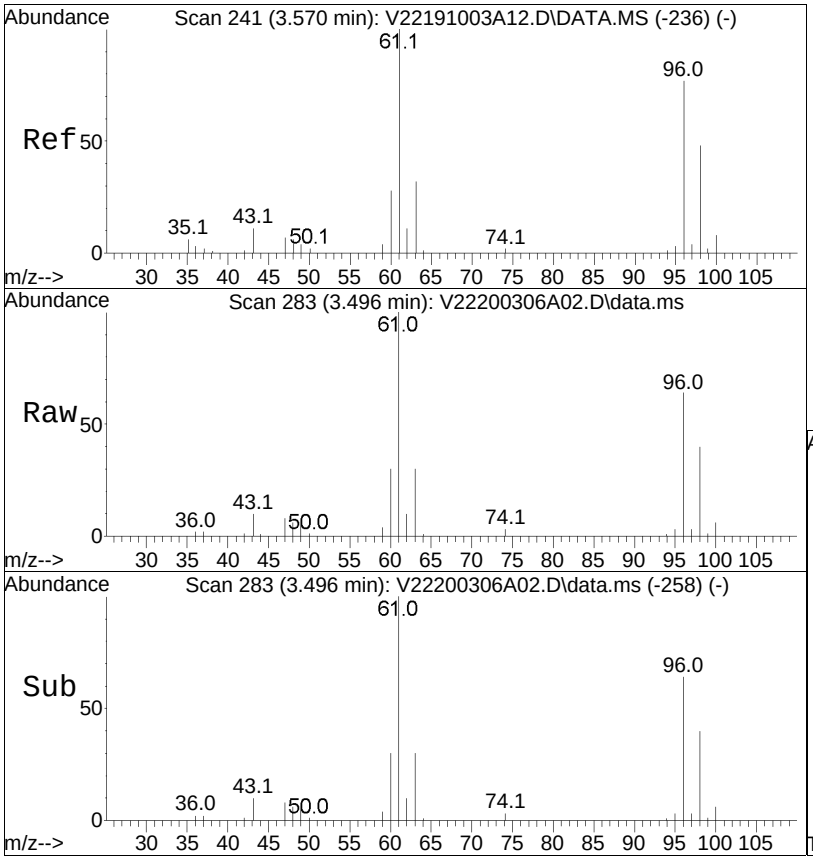


#17
Acetone
Concen: 6.89 ug/L
RT: 3.395 min Scan# 270
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 43 Resp: 10095

Ion	Ratio	Lower	Upper
43	100		
58	27.1	23.1	34.7

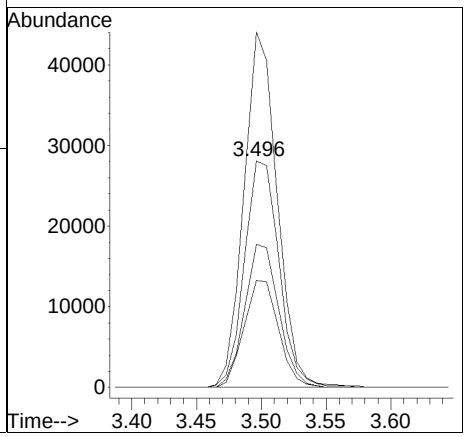


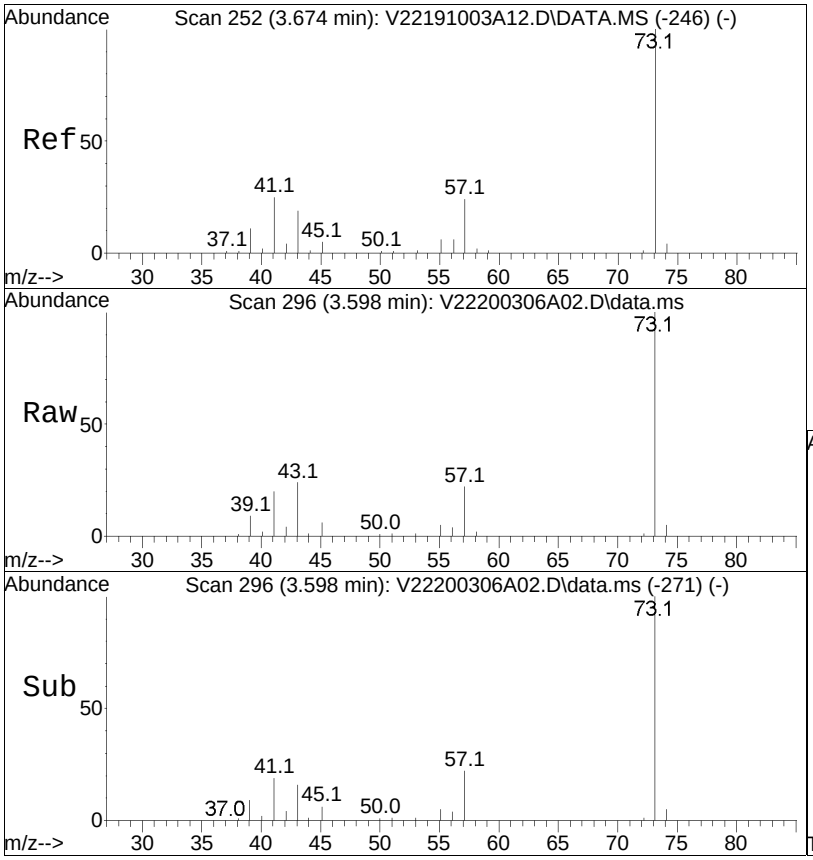


#18
trans-1,2-Dichloroethene
Concen: 9.68 ug/L
RT: 3.496 min Scan# 283
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 96 Resp: 52450

Ion	Ratio	Lower	Upper
96	100		
61	150.8	81.6	169.6
98	62.0	41.8	86.8
63	47.1	26.3	54.7

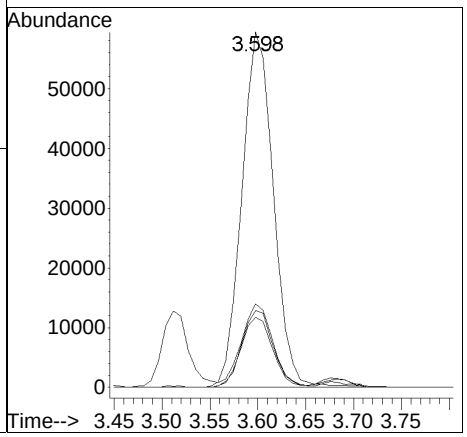


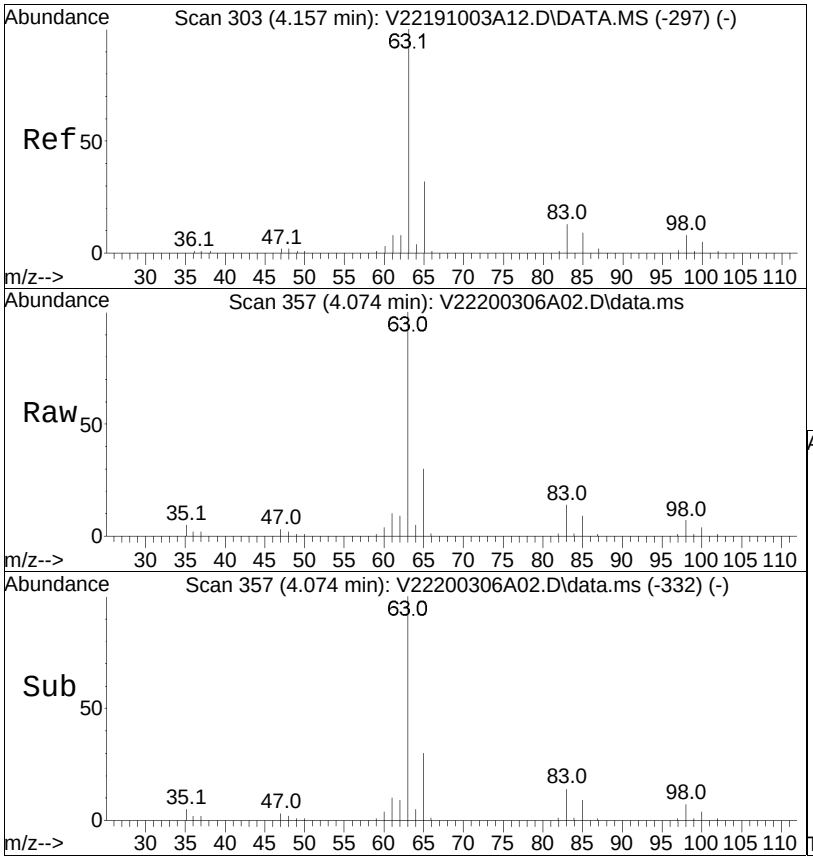


#21
Methyl tert-butyl ether
Concen: 11.42 ug/L
RT: 3.598 min Scan# 296
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 73 Resp: 136846

Ion	Ratio	Lower	Upper
73	100		
57	21.7	13.6	28.2
43	23.4	12.7	26.5
41	19.7	11.4	23.8

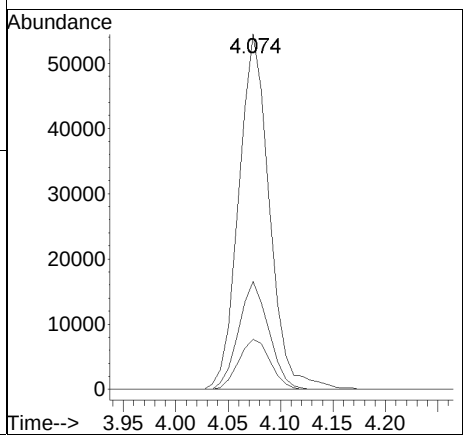


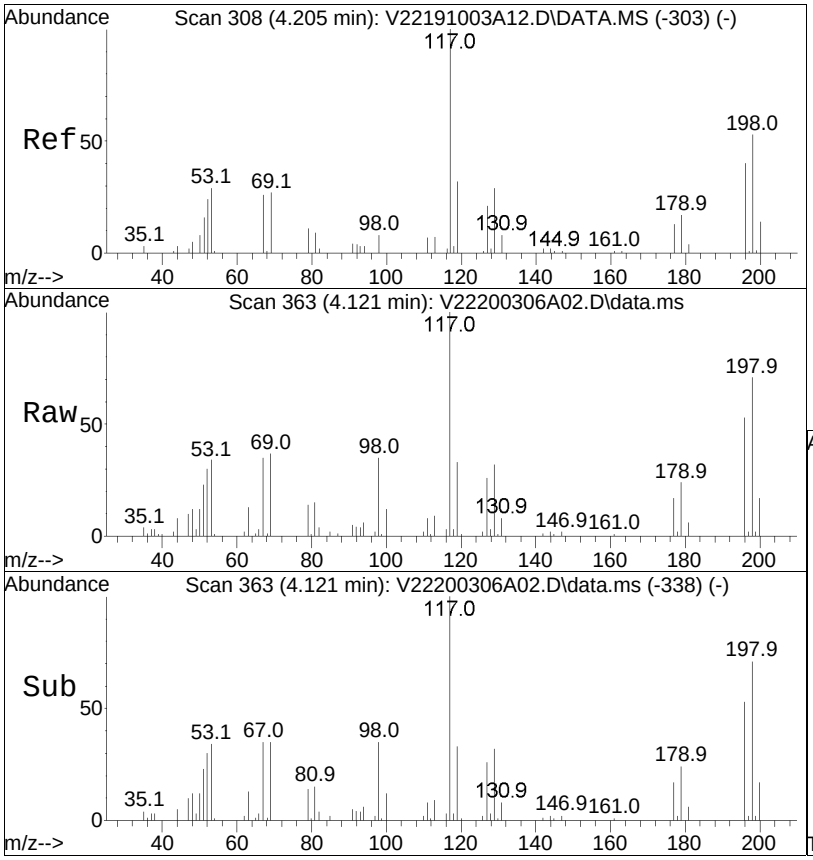


#25
1,1-Dichloroethane
Concen: 10.21 ug/L
RT: 4.074 min Scan# 357
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 63 Resp: 111168

Ion	Ratio	Lower	Upper
63	100		
65	29.8	11.9	51.9
83	14.5	0.0	34.2

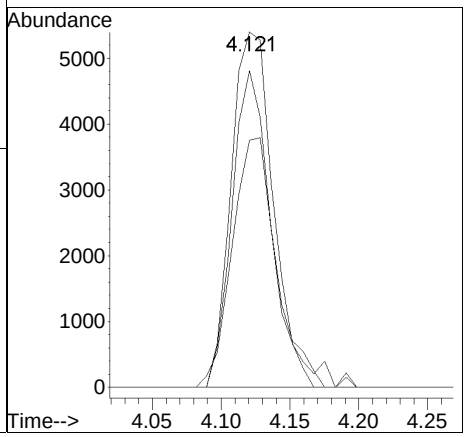


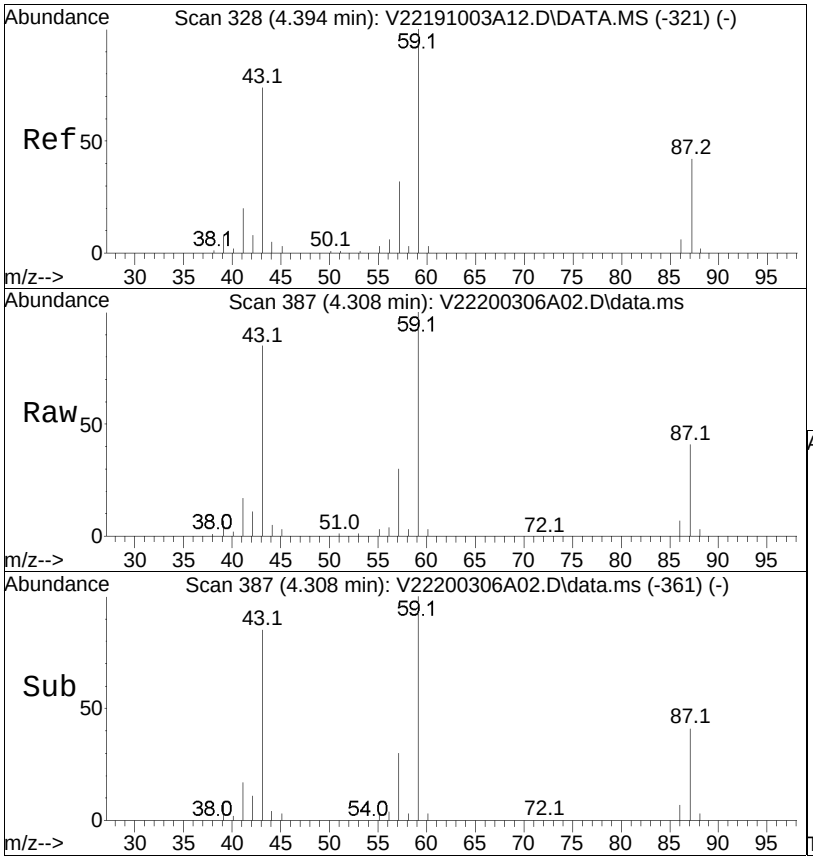


#27
Acrylonitrile
Concen: 8.68 ug/L
RT: 4.121 min Scan# 363
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 53 Resp: 11802

Ion	Ratio	Lower	Upper
53	100		
52	82.0	63.8	95.8
51	68.9	50.2	75.4

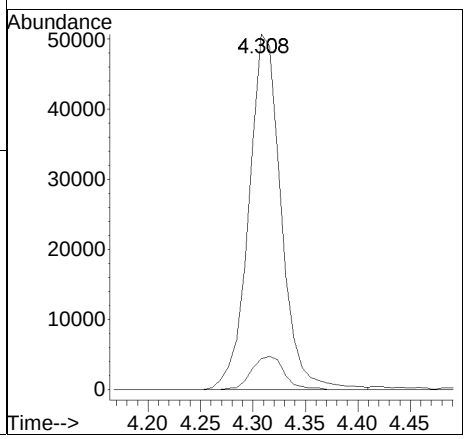


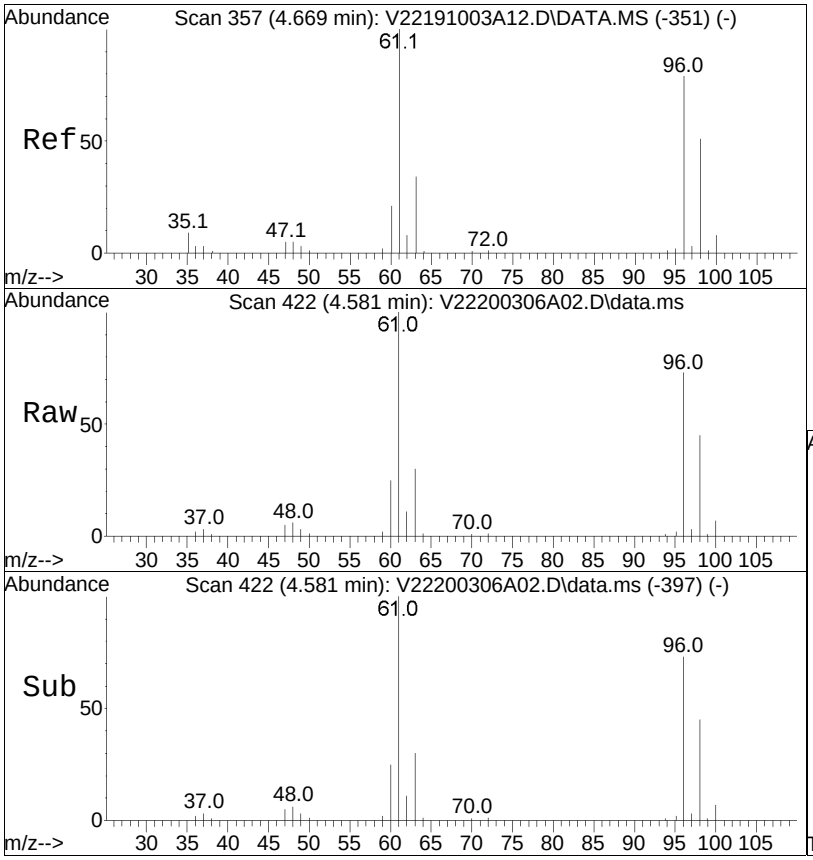


#29
Vinyl acetate
Concen: 11.66 ug/L
RT: 4.308 min Scan# 387
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 43 Resp: 108360

Ion	Ratio	Lower	Upper
43	100		
86	9.3	8.9	13.3

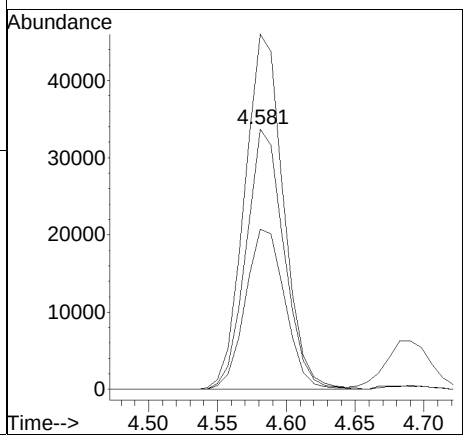


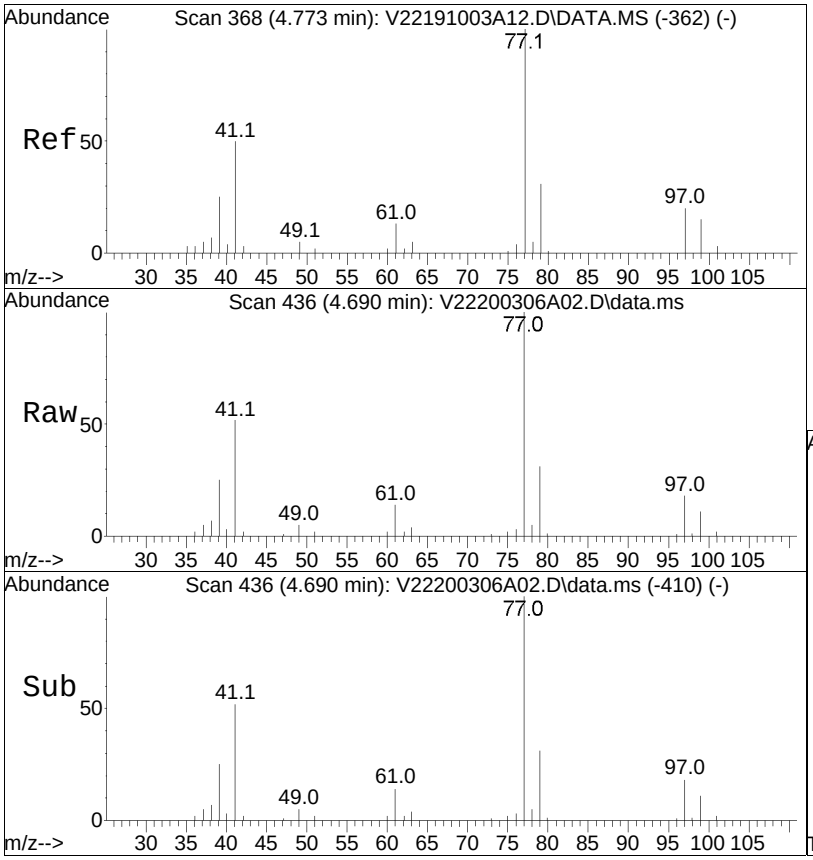


#30
cis-1,2-Dichloroethene
Concen: 9.67 ug/L
RT: 4.581 min Scan# 422
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 96 Resp: 64780

Ion	Ratio	Lower	Upper
96	100		
61	139.4	90.3	135.5#
98	64.3	50.8	76.2

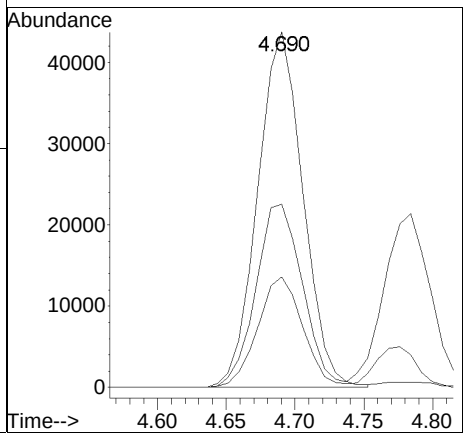


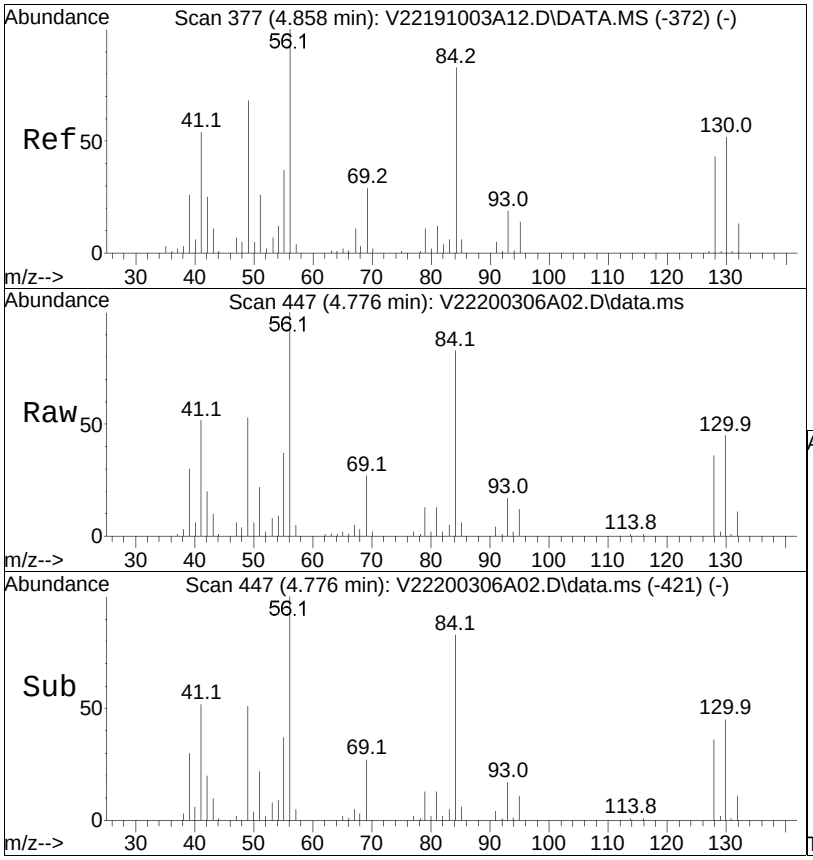


#31
2,2-Dichloropropane
Concen: 15.92 ug/L
RT: 4.690 min Scan# 436
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 77 Resp: 100141

Ion	Ratio	Lower	Upper
77	100		
41	53.2	32.3	67.1
79	31.0	21.1	43.7

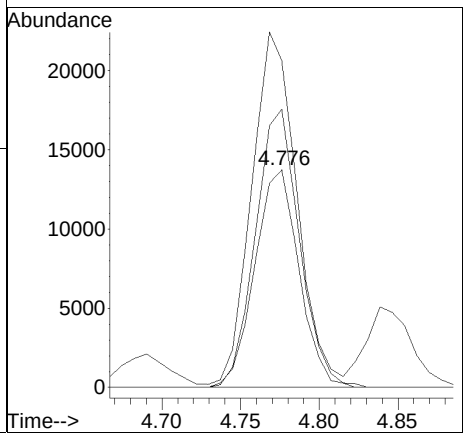


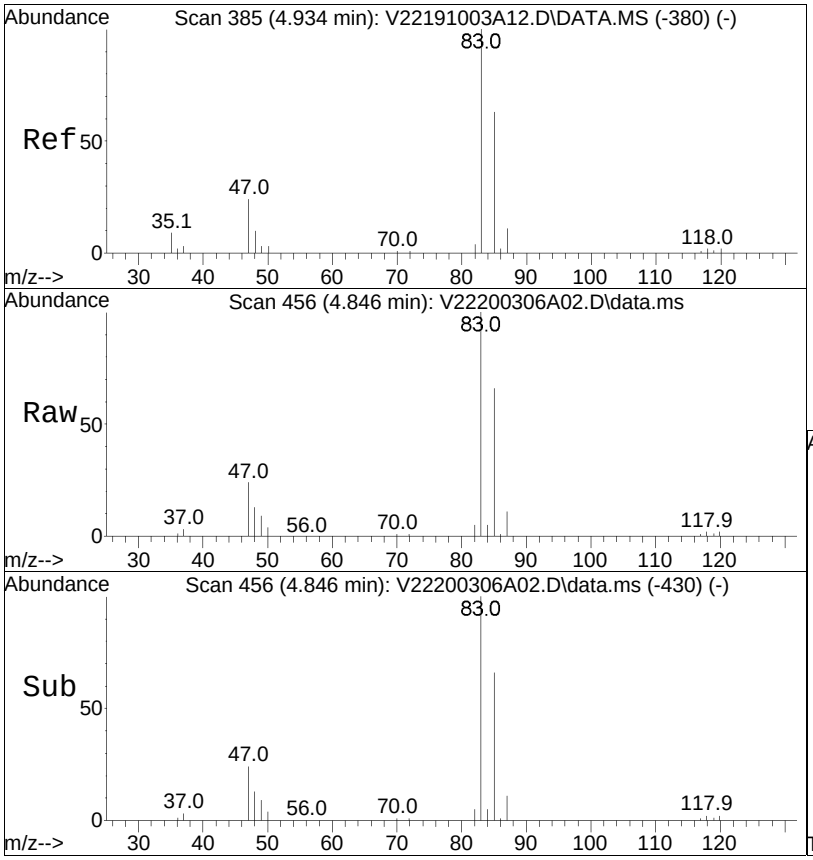


#32
Bromochloromethane
Concen: 9.67 ug/L
RT: 4.776 min Scan# 447
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:128 Resp: 26859

Ion	Ratio	Lower	Upper
128	100		
49	167.1	104.4	156.6#
130	127.3	103.9	155.9

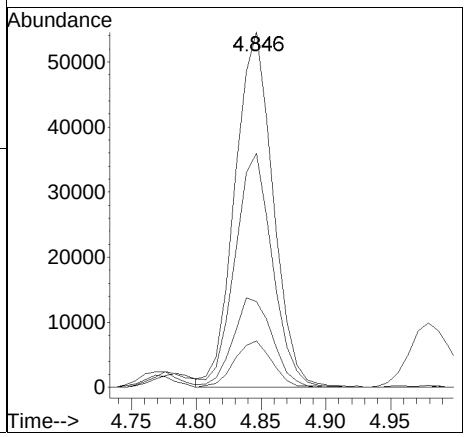


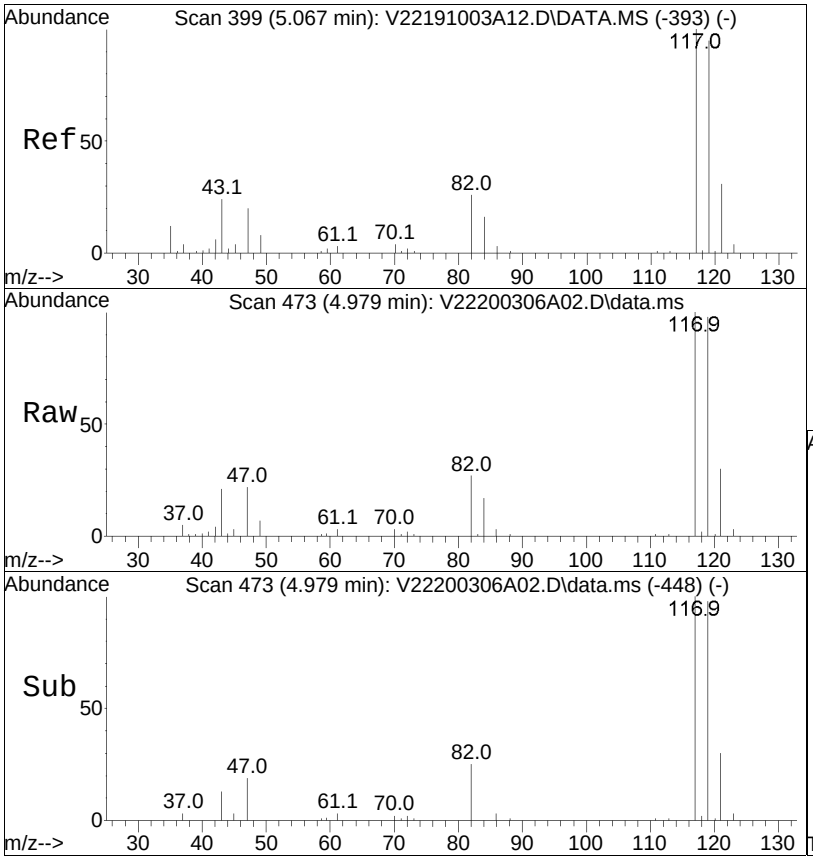


#34
Chloroform
Concen: 10.49 ug/L
RT: 4.846 min Scan# 456
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 83 Resp: 112183

Ion	Ratio	Lower	Upper
83	100		
85	64.6	42.4	88.2
47	26.1	14.0	29.0
48	12.9	6.9	14.3

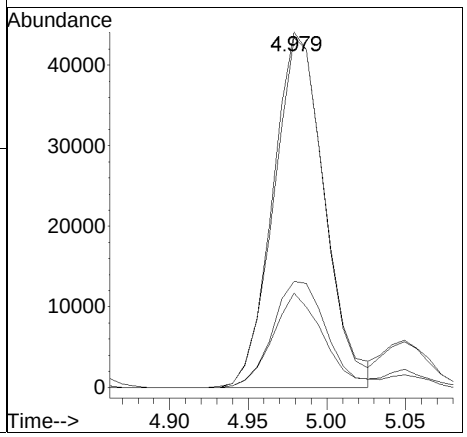


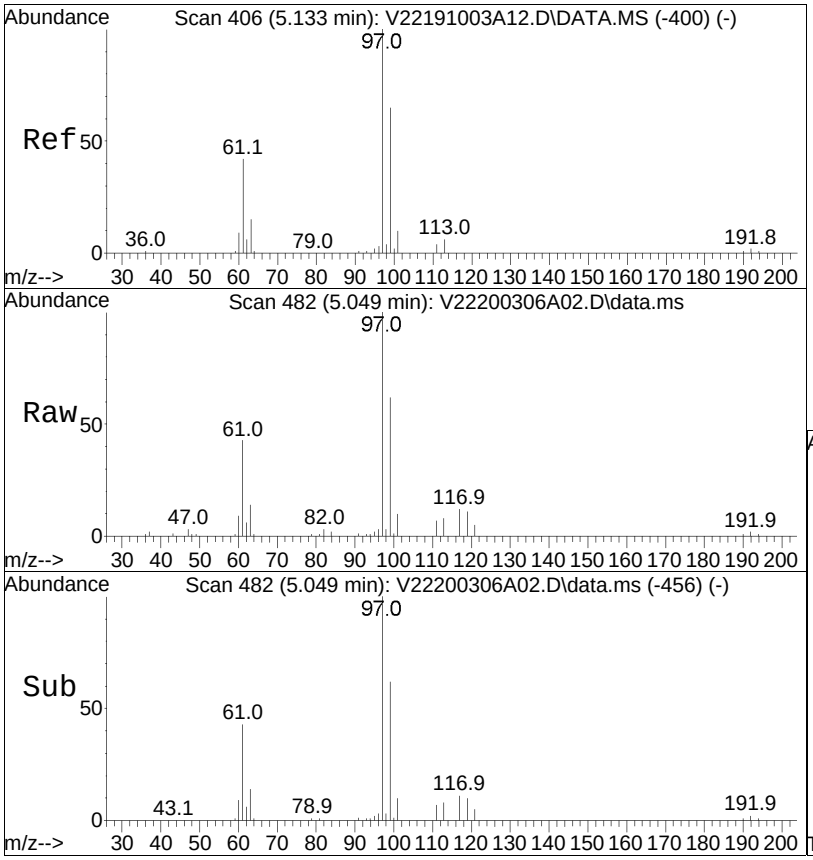


#36
Carbon tetrachloride
Concen: 11.08 ug/L
RT: 4.979 min Scan# 473
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:117 Resp: 100885

Ion	Ratio	Lower	Upper
117	100		
119	96.6	62.1	129.1
121	31.0	20.3	42.3
82	26.5	15.4	32.0

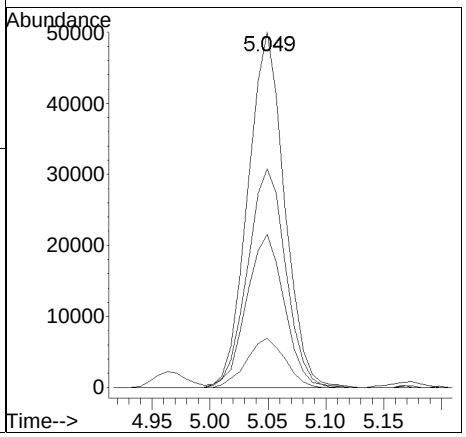


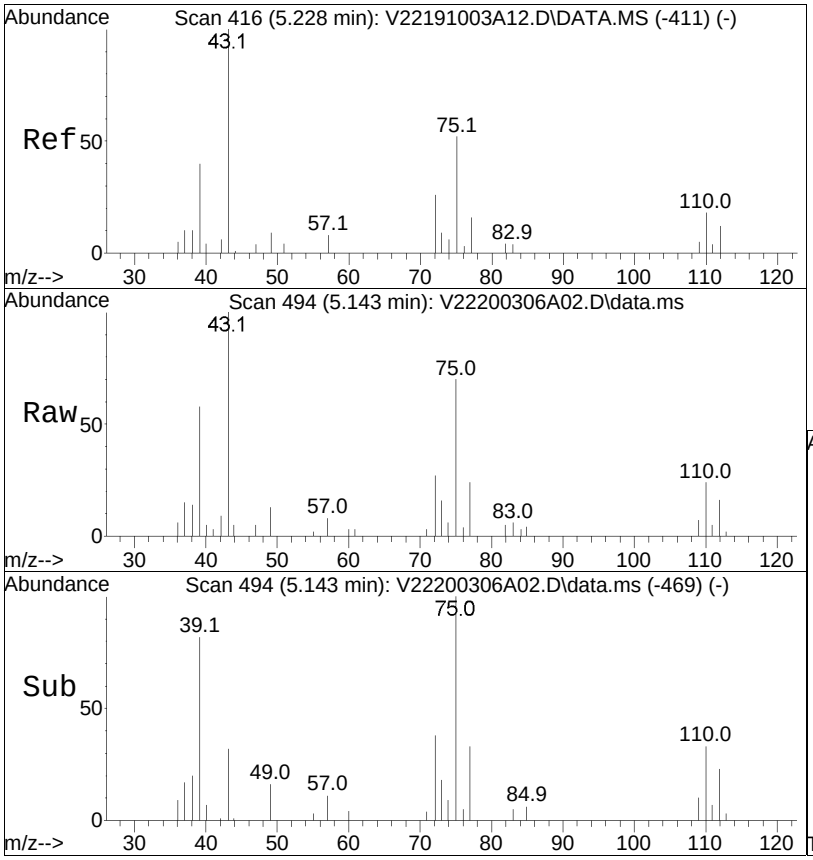


#39
1,1,1-Trichloroethane
Concen: 11.22 ug/L
RT: 5.049 min Scan# 482
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 97 Resp: 109953

Ion	Ratio	Lower	Upper
97	100		
99	64.2	42.4	88.0
61	44.7	26.0	54.0
63	14.5	8.3	17.3

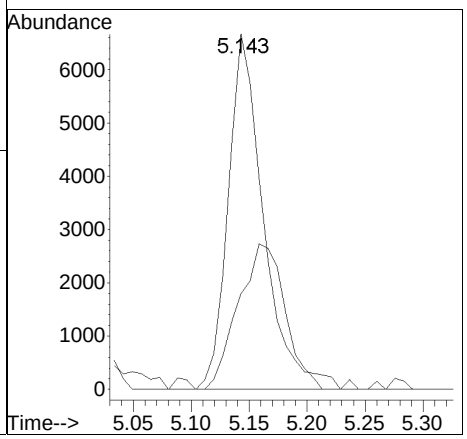


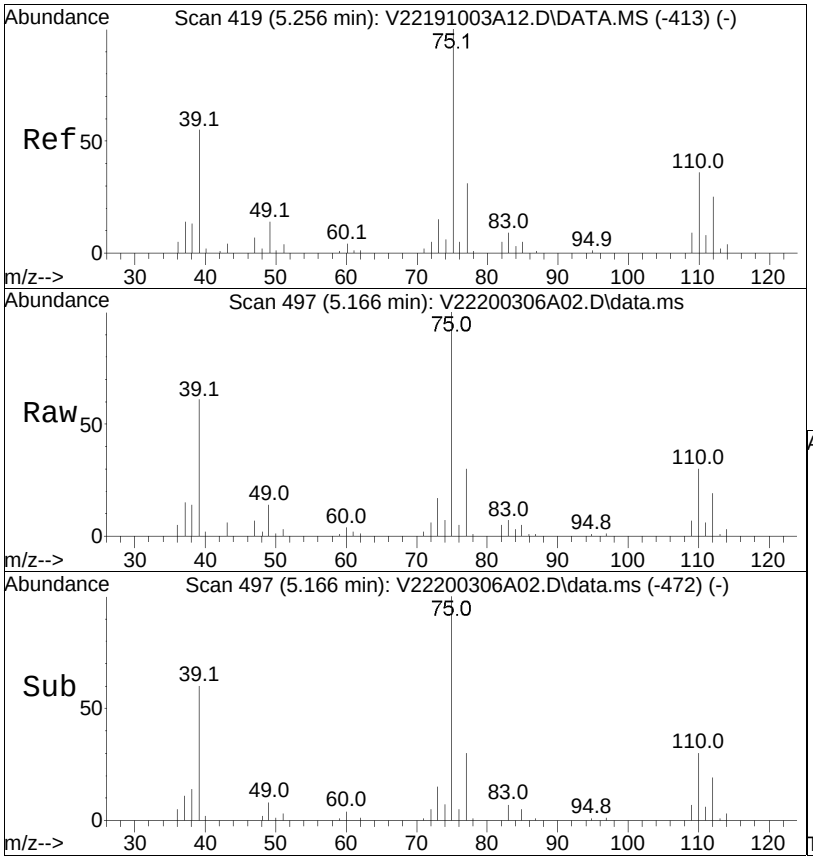


#41
2-Butanone
Concen: 7.75 ug/L
RT: 5.143 min Scan# 494
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 43 Resp: 14241

Ion	Ratio	Lower	Upper
43	100		
72	53.6	45.8	68.8

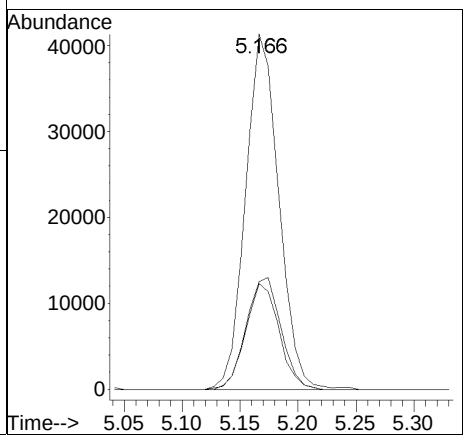


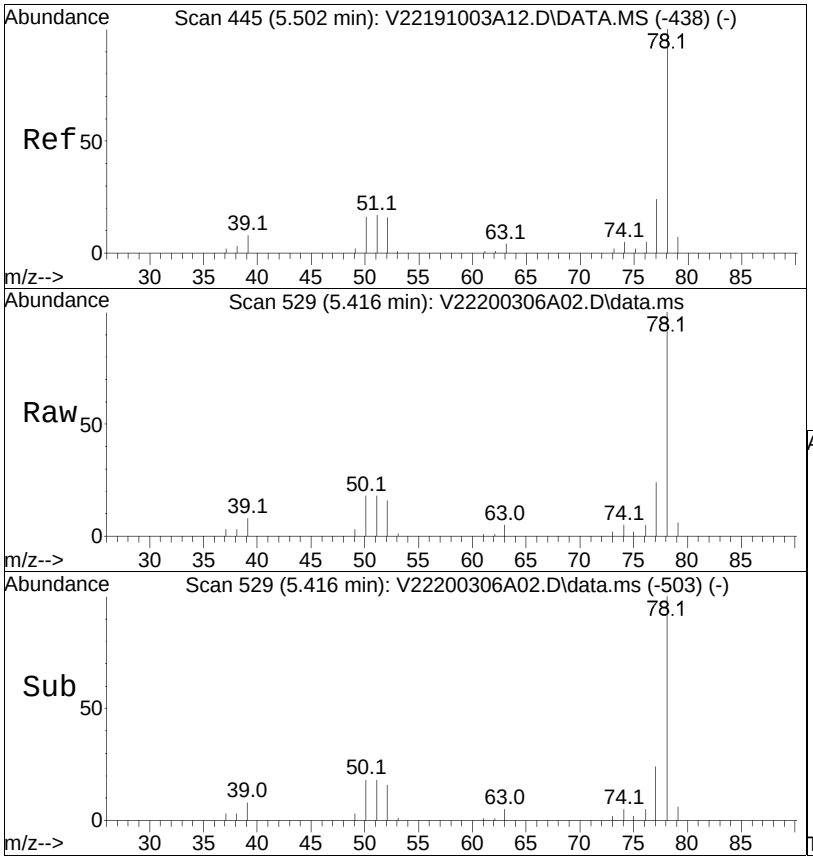


#42
1,1-Dichloropropene
Concen: 10.06 ug/L
RT: 5.166 min Scan# 497
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 75 Resp: 82538

Ion	Ratio	Lower	Upper
75	100		
110	32.9	25.4	52.8
77	29.9	20.3	42.1

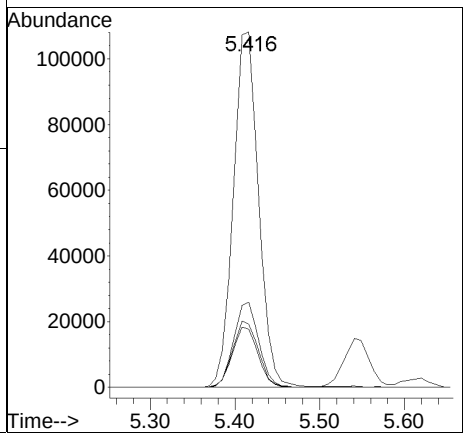


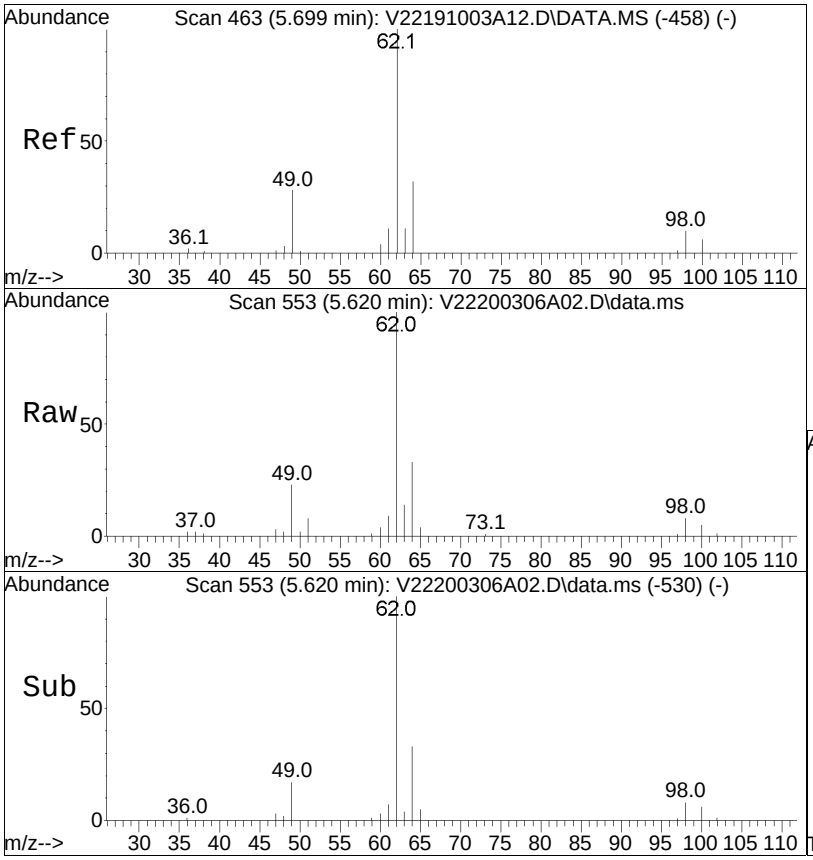


#44
Benzene
Concen: 9.83 ug/L
RT: 5.416 min Scan# 529
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 78 Resp: 224633

Ion	Ratio	Lower	Upper
78	100		
77	23.9	15.4	32.0
51	19.0	9.8	20.4
52	17.2	9.2	19.2

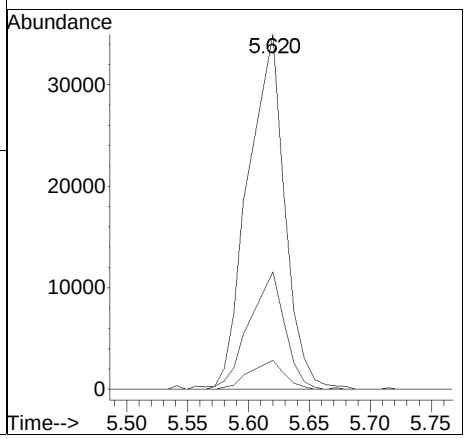


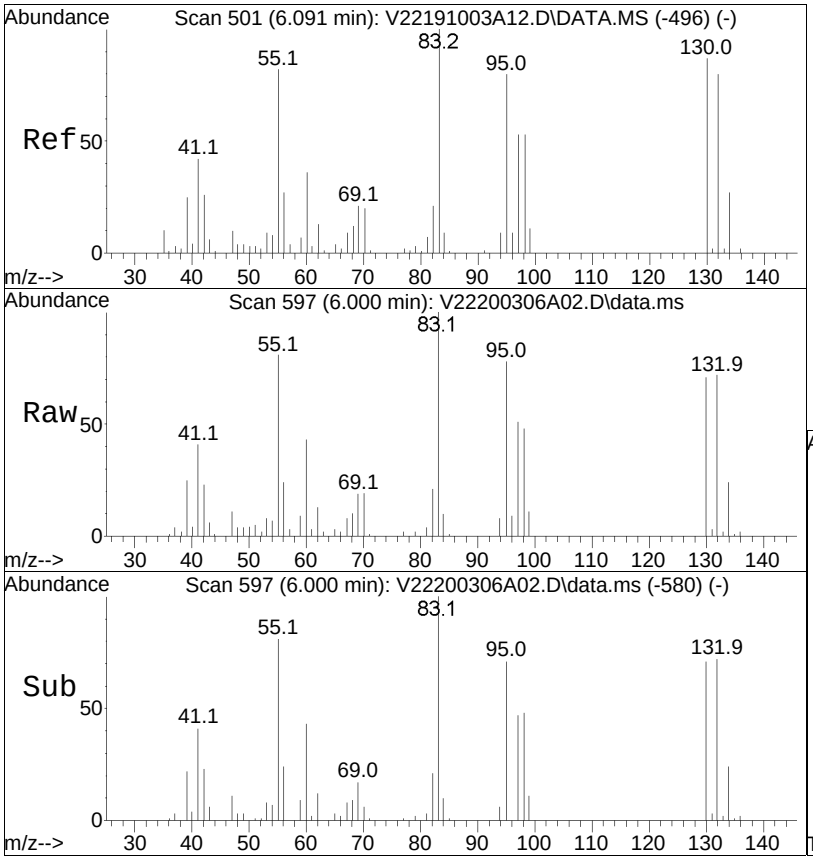


#47
1,2-Dichloroethane
Concen: 9.36 ug/L
RT: 5.620 min Scan# 553
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 62 Resp: 54101

Ion	Ratio	Lower	Upper
62	100		
64	32.6	12.3	52.3
98	8.1	0.0	30.3

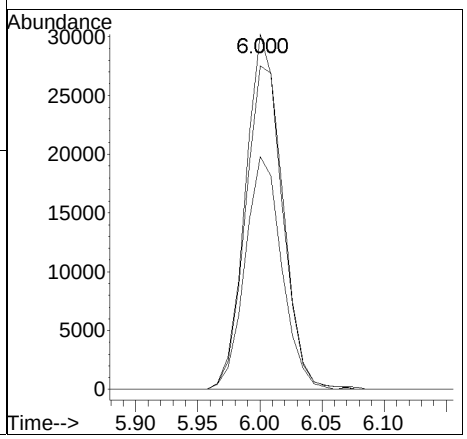


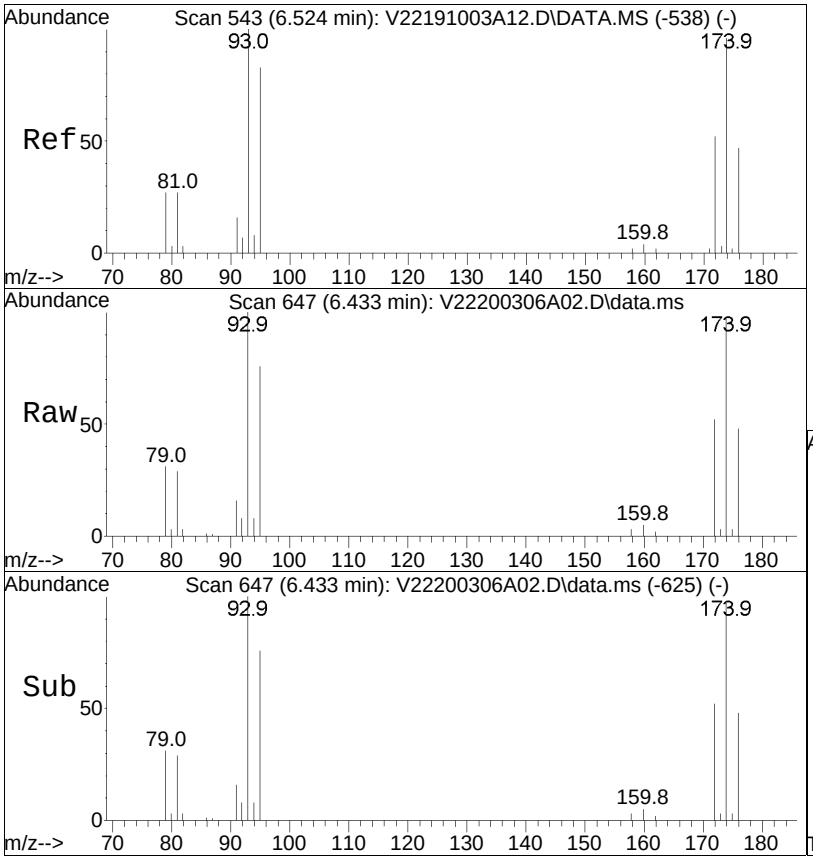


#51
Trichloroethene
Concen: 9.48 ug/L
RT: 6.000 min Scan# 597
Delta R.T. -0.009 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 95 Resp: 61259

Ion	Ratio	Lower	Upper
95	100		
97	66.6	55.0	82.4
130	96.6	89.2	133.8

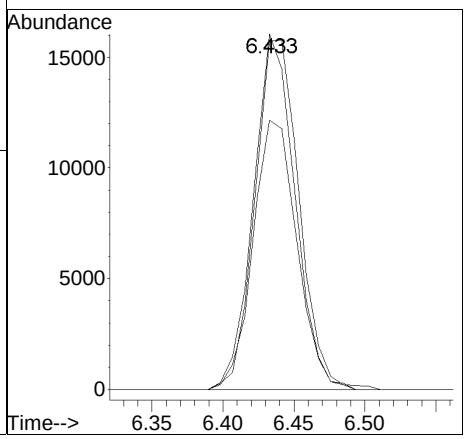


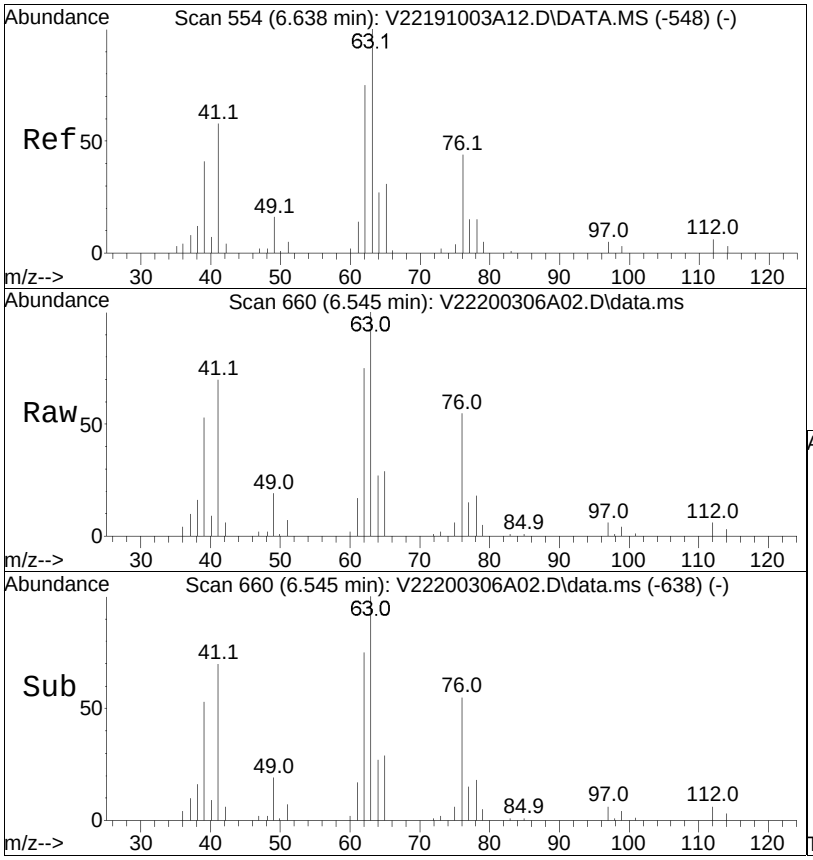


#53
Dibromomethane
Concen: 9.41 ug/L
RT: 6.433 min Scan# 647
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 93 Resp: 32526

Ion	Ratio	Lower	Upper
93	100		
95	80.6	68.0	102.0
174	104.9	106.1	159.1#

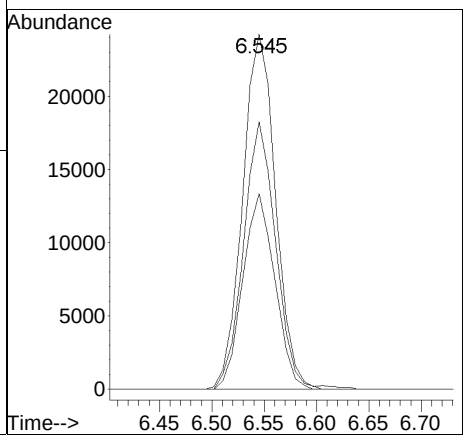


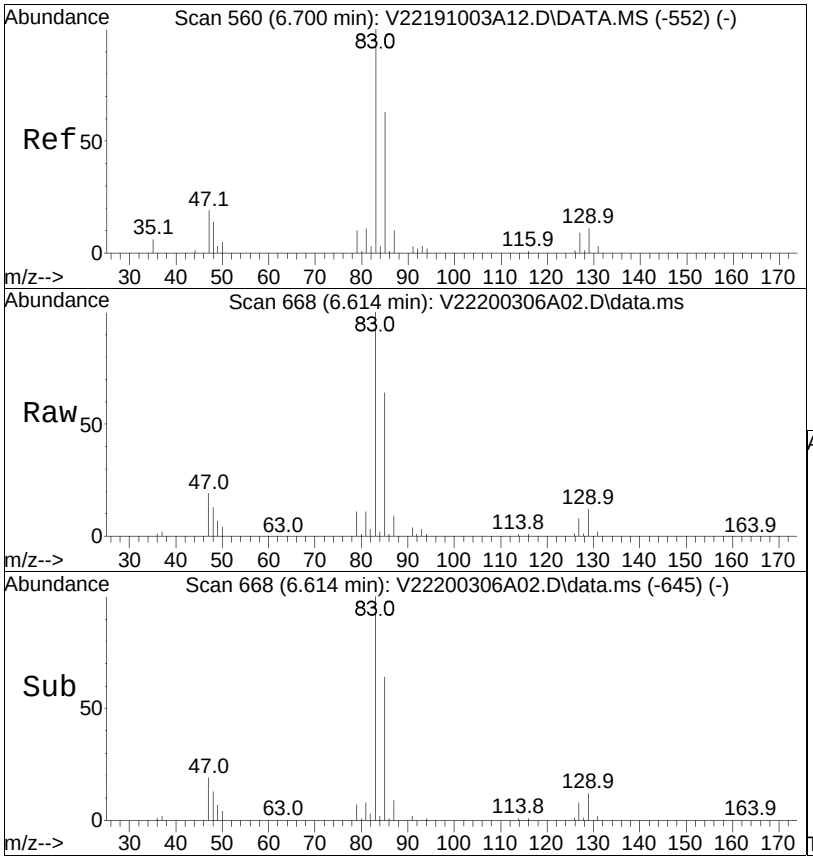


#54
1,2-Dichloropropane
Concen: 8.75 ug/L
RT: 6.545 min Scan# 660
Delta R.T. -0.009 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 63 Resp: 53433

Ion	Ratio	Lower	Upper
63	100		
62	72.7	56.9	85.3
76	53.3	35.8	53.8

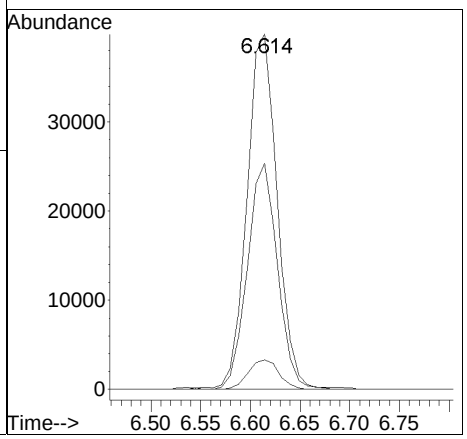


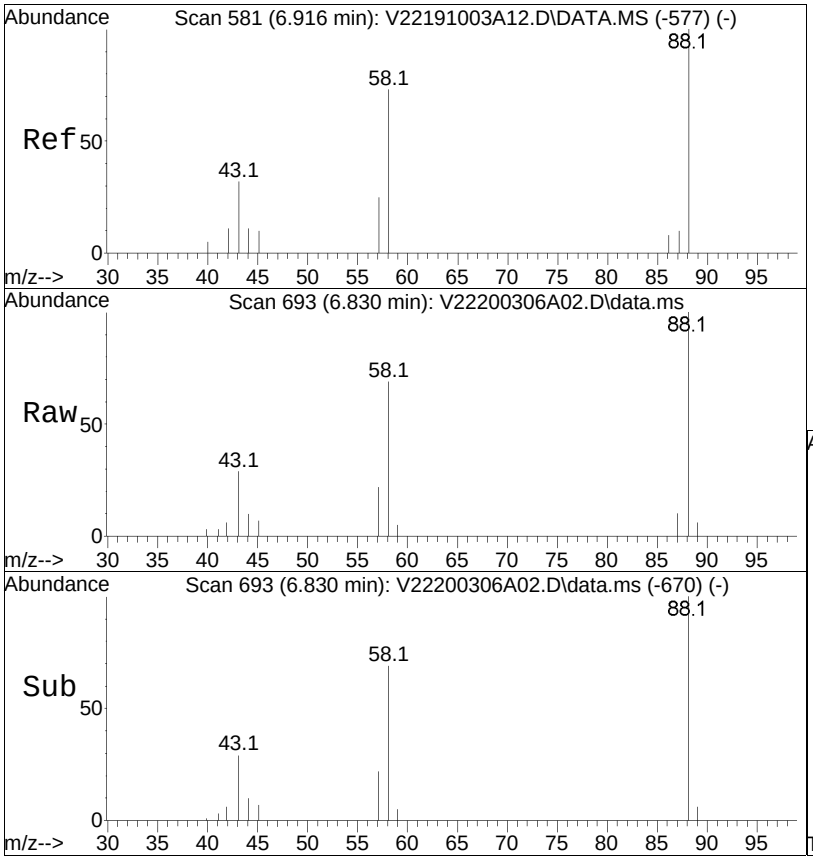


#57
Bromodichloromethane
Concen: 10.37 ug/L
RT: 6.614 min Scan# 668
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 83 Resp: 84523

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.6	77.4
127	8.5	7.4	11.0

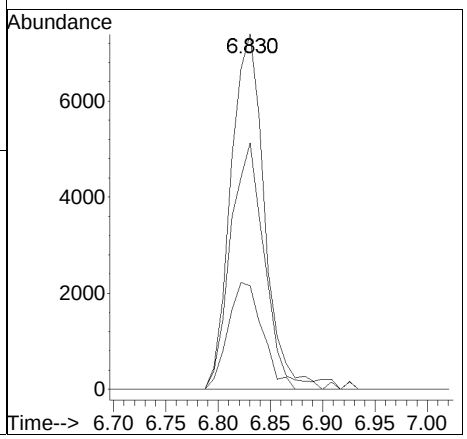


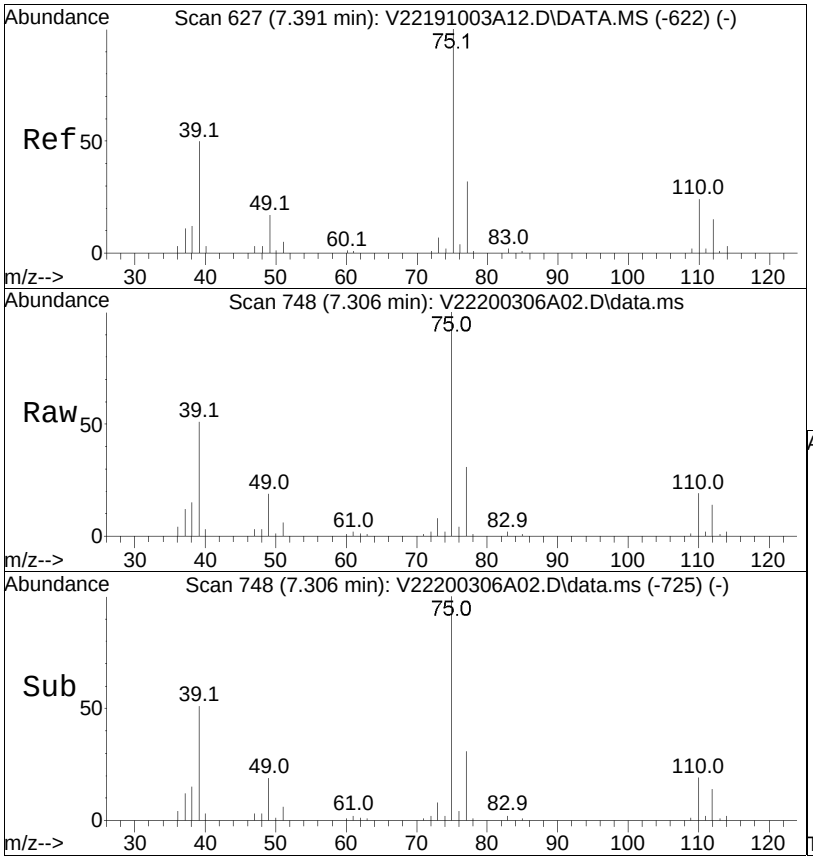


#60
1,4-Dioxane
Concen: 416.93 ug/L
RT: 6.830 min Scan# 693
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 88 Resp: 16753

Ion	Ratio	Lower	Upper
88	100		
58	69.3	43.3	64.9#
43	30.5	15.1	22.7#

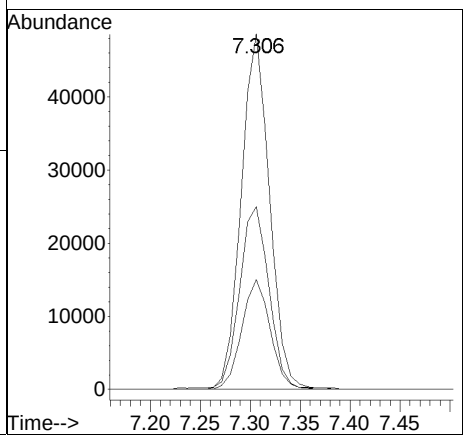


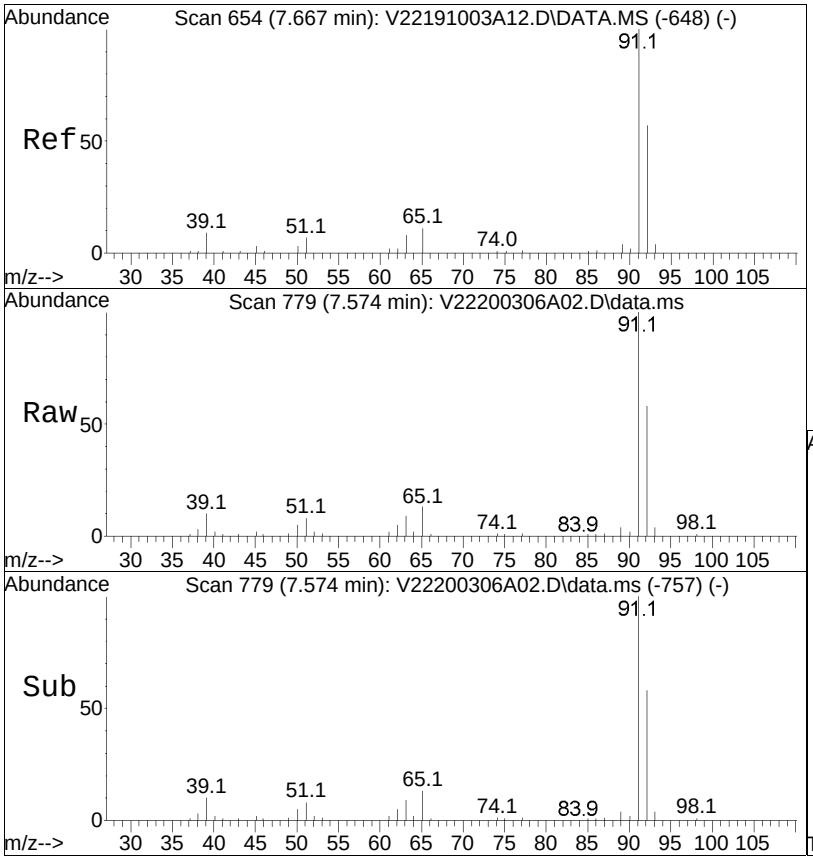


#61
cis-1,3-Dichloropropene
Concen: 10.59 ug/L
RT: 7.306 min Scan# 748
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 75 Resp: 105916

Ion	Ratio	Lower	Upper
75	100		
77	28.2	25.6	38.4
39	48.9	35.4	53.0

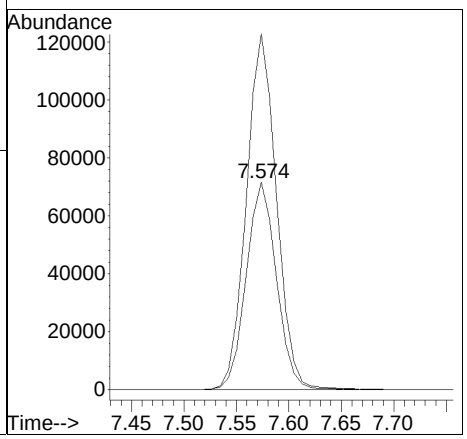


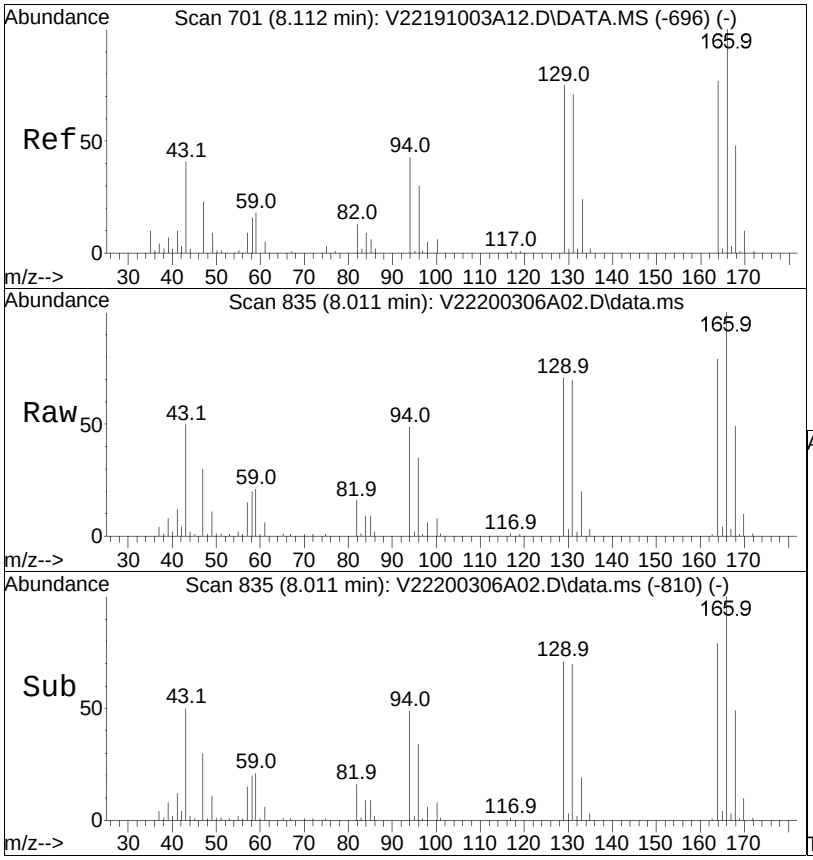


#64
Toluene
Concen: 10.16 ug/L
RT: 7.574 min Scan# 779
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 92 Resp: 142720

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6

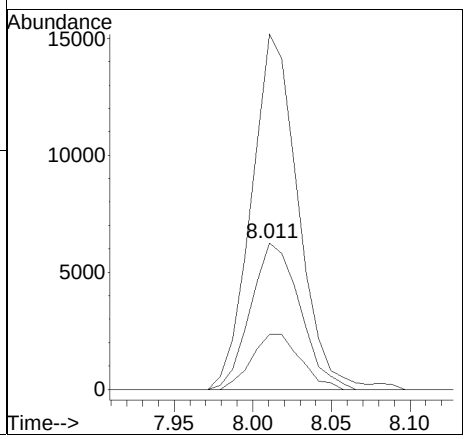


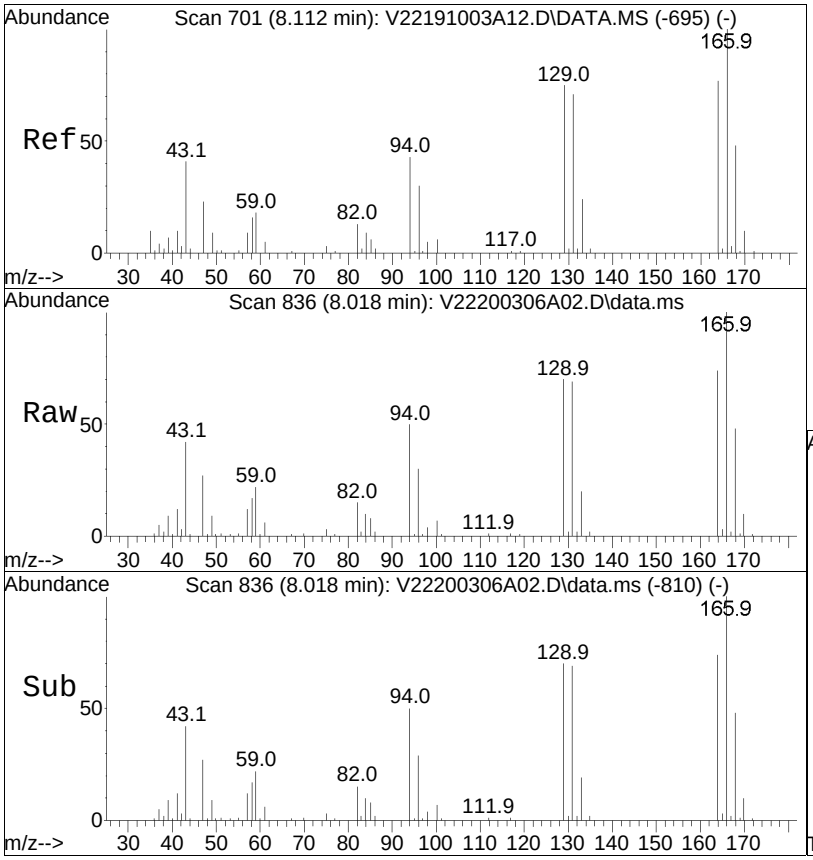


#65
4-Methyl-2-pentanone
Concen: 9.91 ug/L
RT: 8.011 min Scan# 835
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 58 Resp: 13639

Ion	Ratio	Lower	Upper
58	100		
100	37.4	36.2	54.4
43	230.6	181.8	272.8

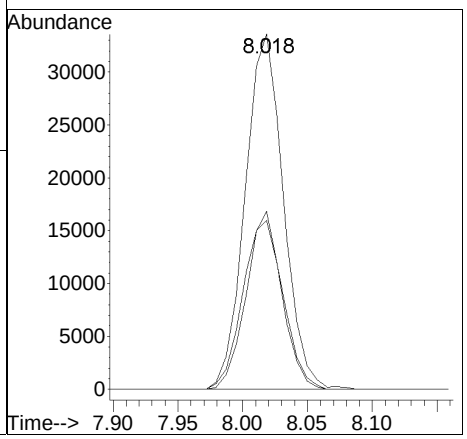


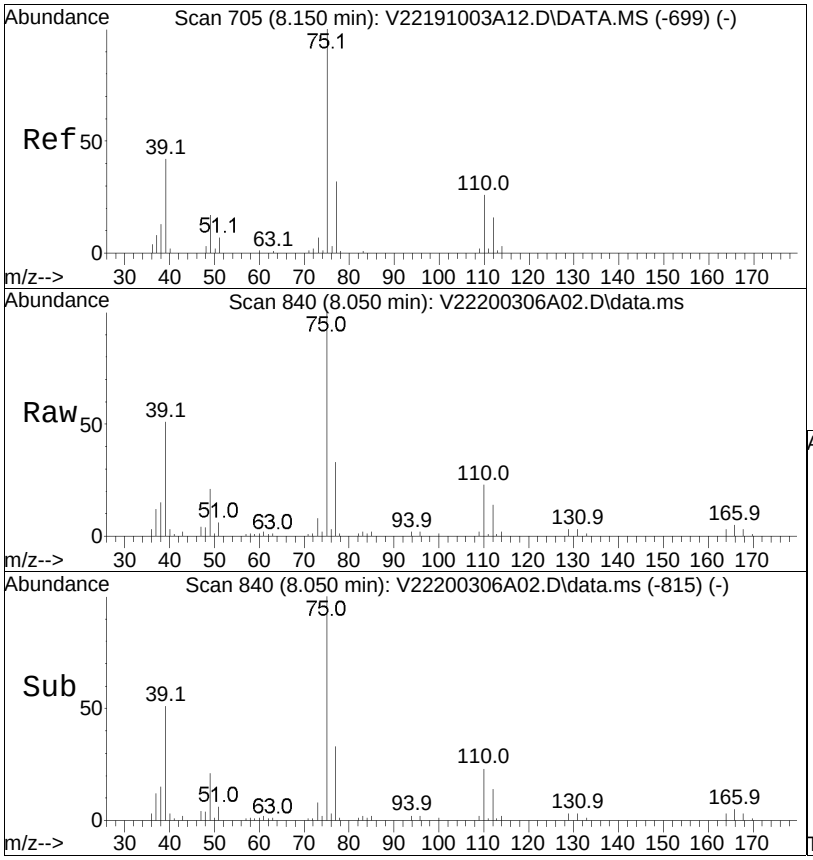


#66
Tetrachloroethene
Concen: 9.91 ug/L
RT: 8.018 min Scan# 836
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:166 Resp: 68942

Ion	Ratio	Lower	Upper
166	100		
168	47.2	27.8	67.8
94	49.6	16.7	56.7

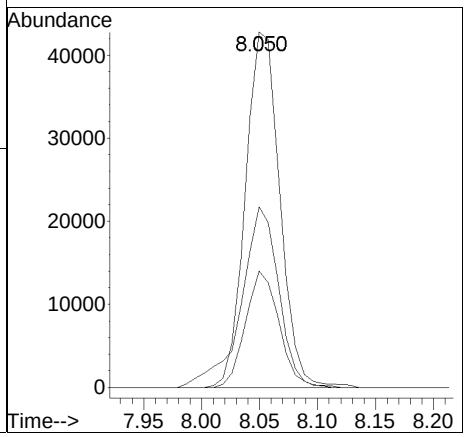


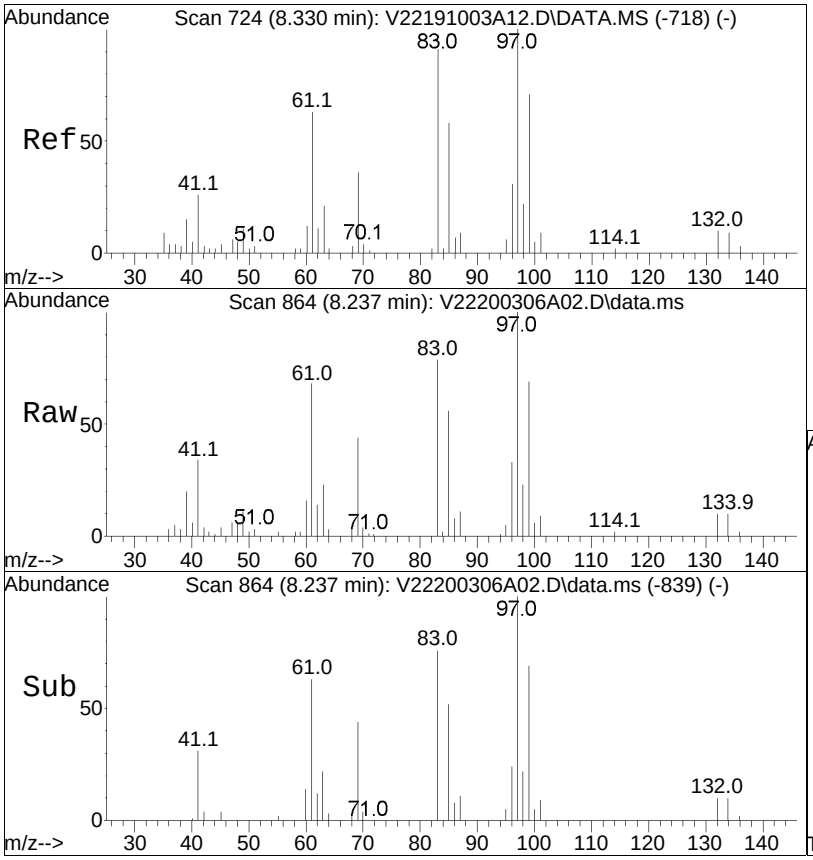


#68
trans-1,3-Dichloropropene
Concen: 11.68 ug/L
RT: 8.050 min Scan# 840
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 75 Resp: 88452

Ion	Ratio	Lower	Upper
75	100		
77	31.8	11.9	51.9
39	55.3	27.4	67.4

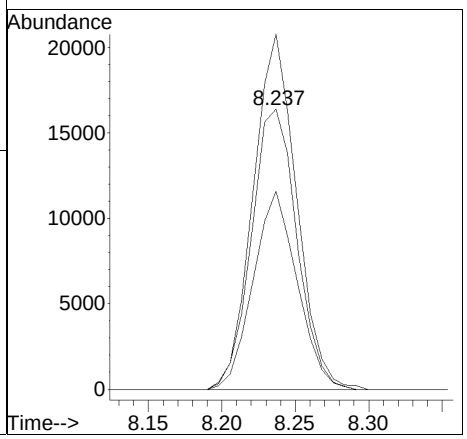


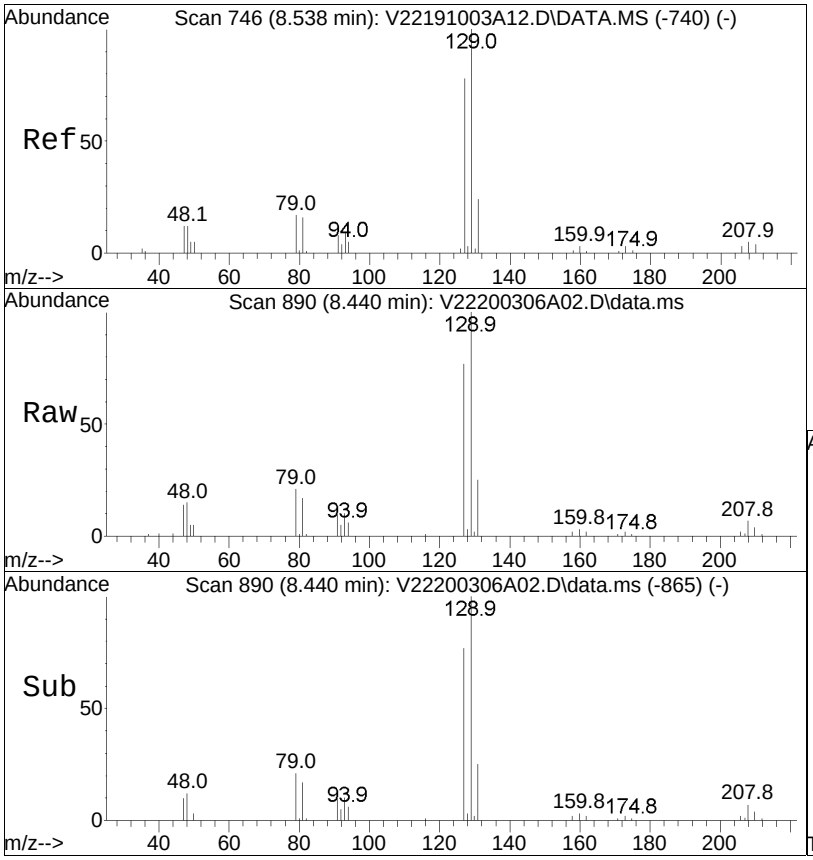


#71
1,1,2-Trichloroethane
Concen: 9.59 ug/L
RT: 8.237 min Scan# 864
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 83 Resp: 35253

Ion	Ratio	Lower	Upper
83	100		
97	121.0	103.4	143.4
85	68.4	47.9	87.9

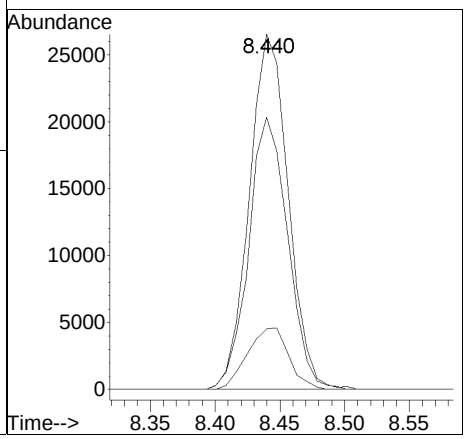


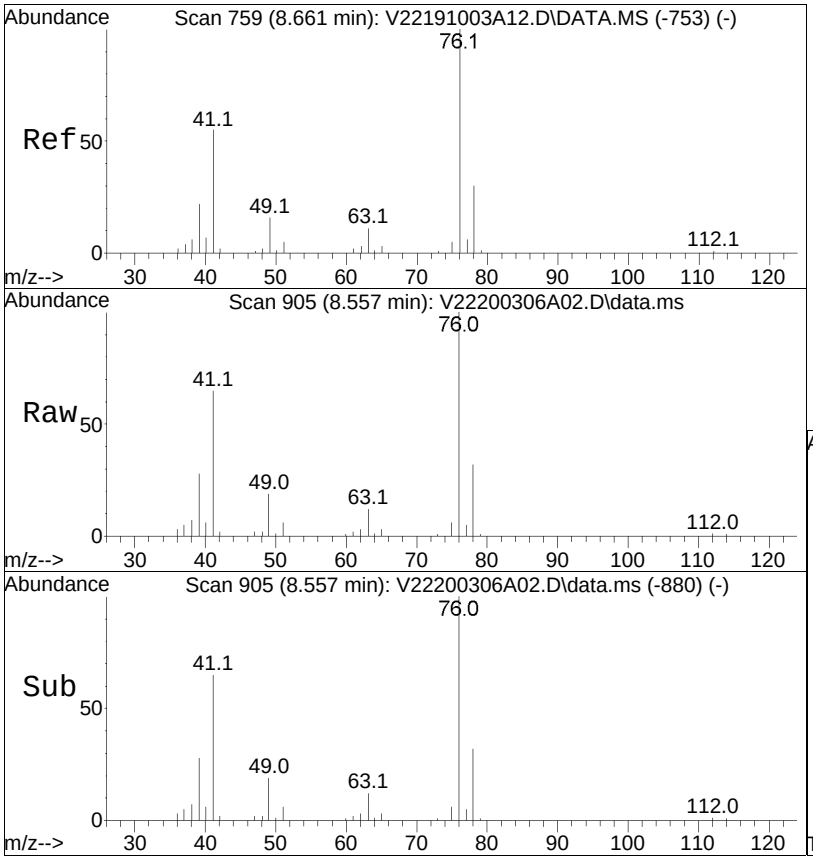


#72
Chlorodibromomethane
Concen: 10.21 ug/L
RT: 8.440 min Scan# 890
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:129 Resp: 55539

Ion	Ratio	Lower	Upper
129	100		
81	18.4	0.0	33.8
127	76.8	57.1	97.1

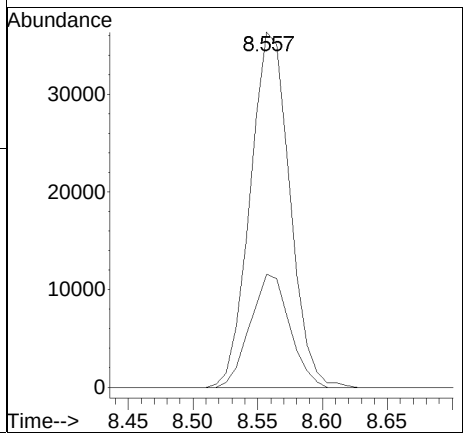


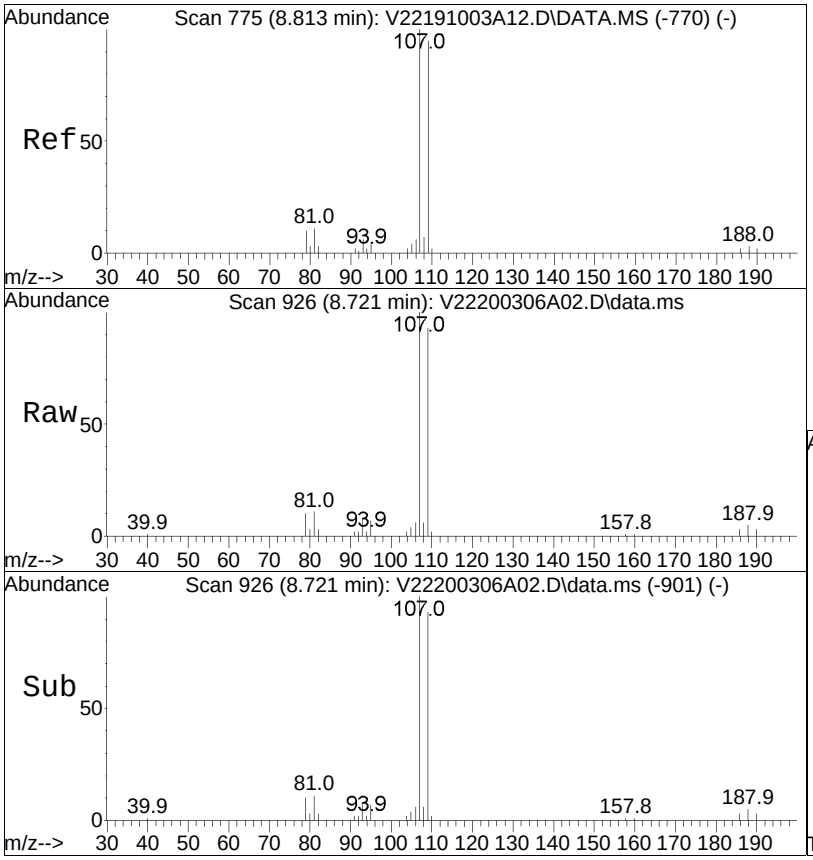


#73
1,3-Dichloropropane
Concen: 10.35 ug/L
RT: 8.557 min Scan# 905
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 76 Resp: 77164

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.7	38.5

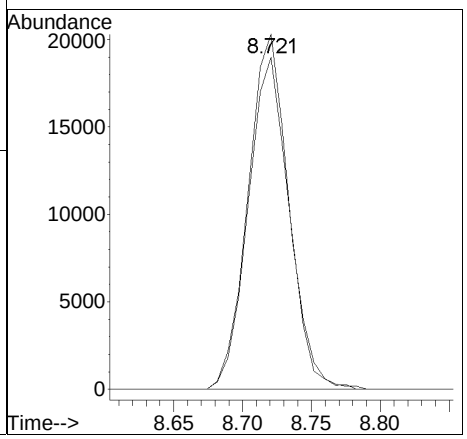


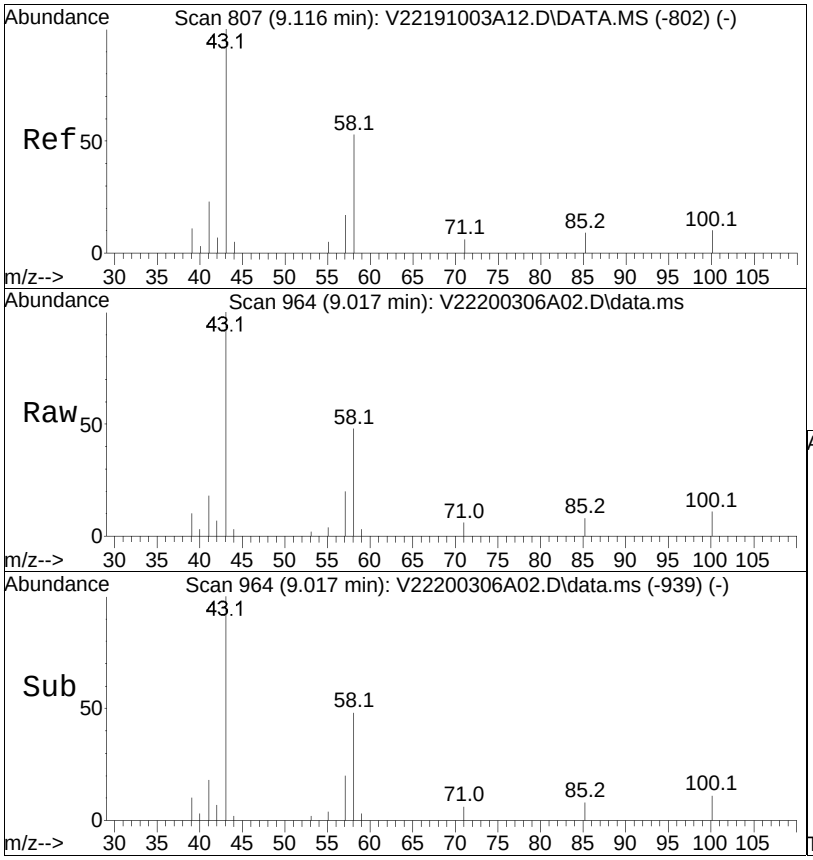


#74
1,2-Dibromoethane
Concen: 9.38 ug/L
RT: 8.721 min Scan# 926
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:107 Resp: 41903

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.1	112.7

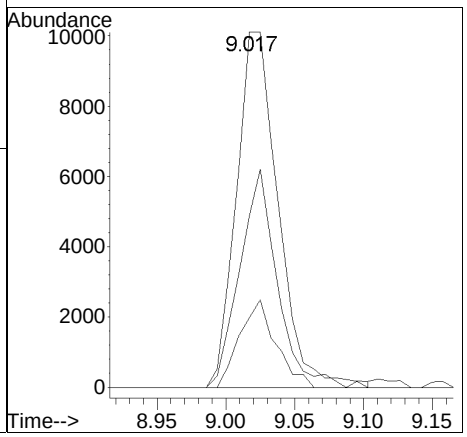


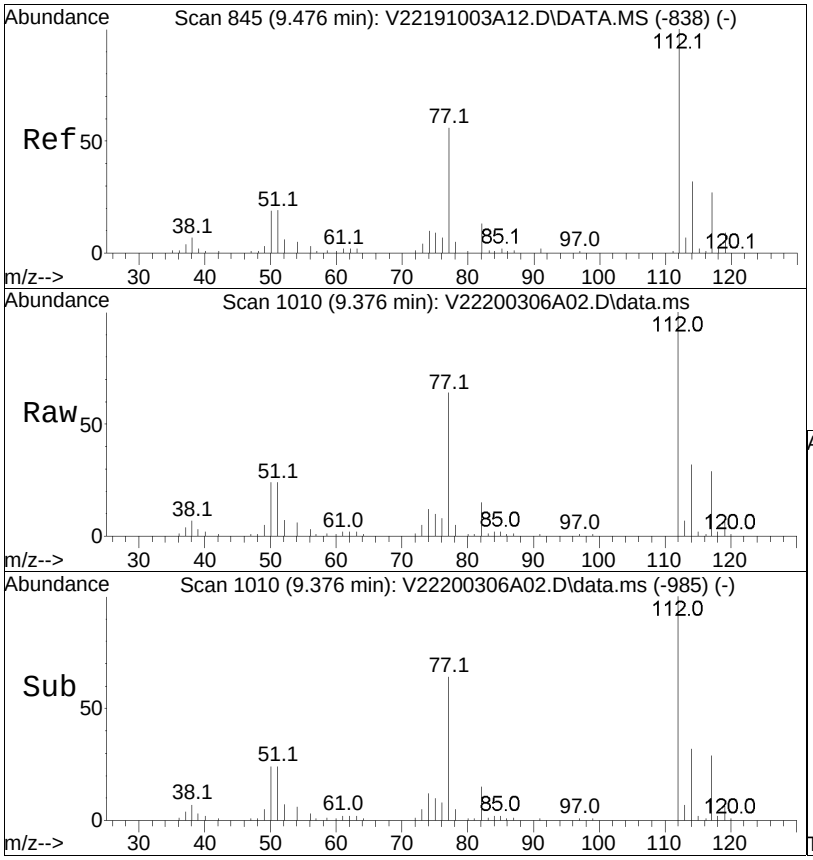


#76
2-Hexanone
Concen: 8.99 ug/L
RT: 9.017 min Scan# 964
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 43 Resp: 21379

Ion	Ratio	Lower	Upper
43	100		
58	55.2	47.6	71.4
57	21.3	16.6	24.8

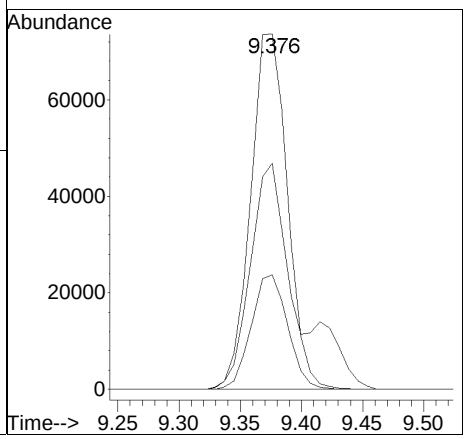


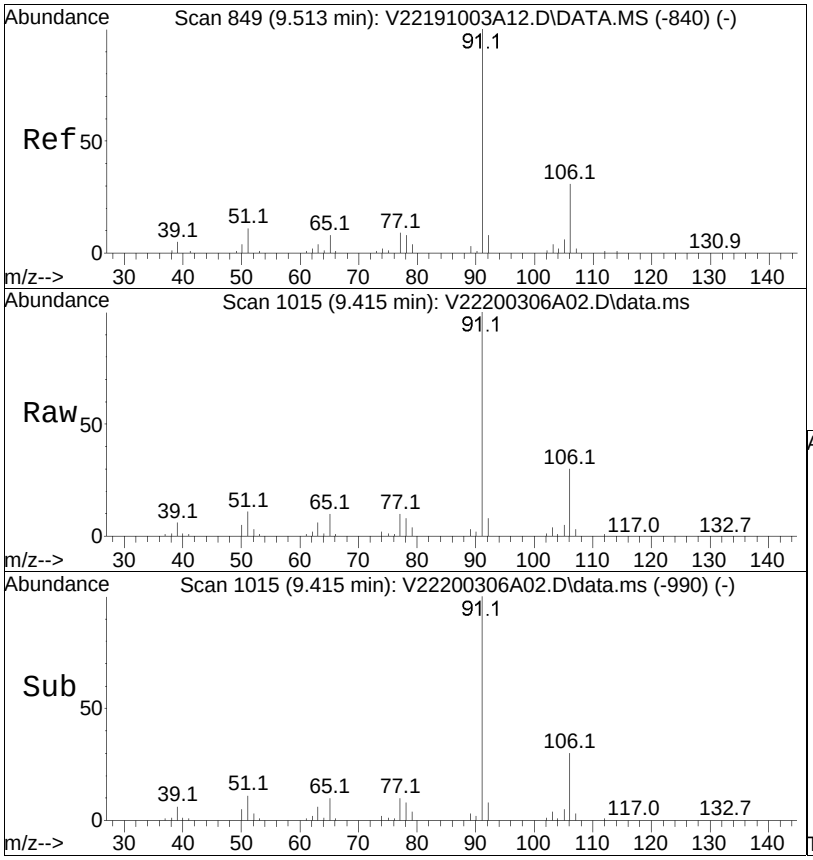


#77
Chlorobenzene
Concen: 9.77 ug/L
RT: 9.376 min Scan# 1010
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:112 Resp: 154296

Ion	Ratio	Lower	Upper
112	100		
77	66.7	55.4	83.0
114	31.9	26.2	39.4

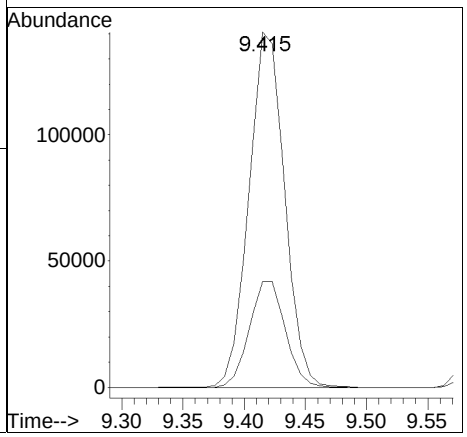


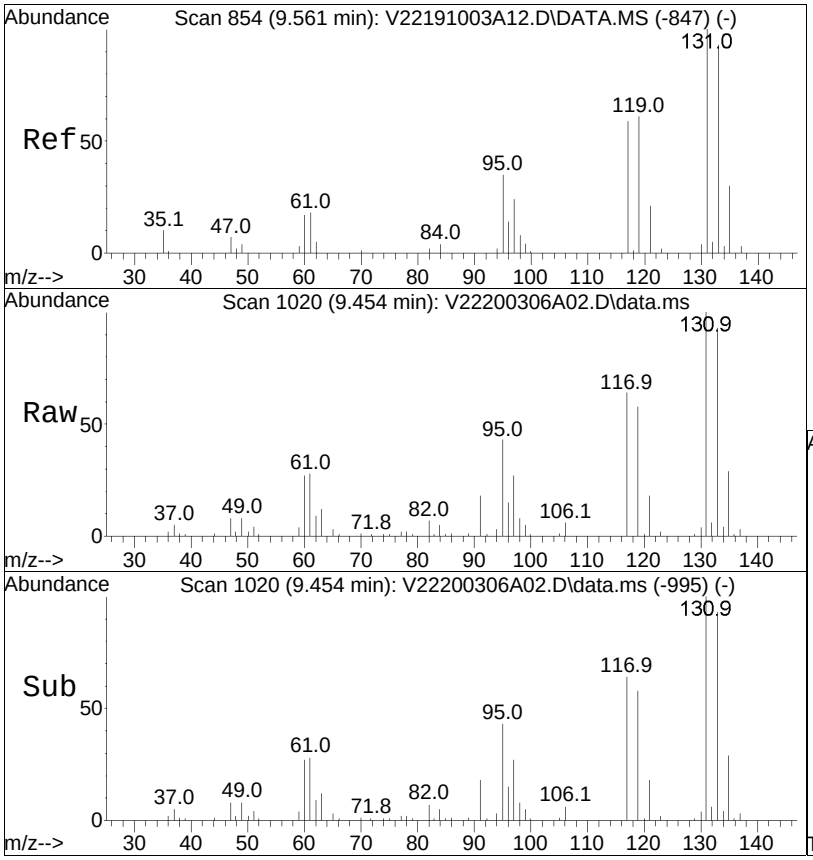


#78
Ethylbenzene
Concen: 10.45 ug/L
RT: 9.415 min Scan# 1015
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 91 Resp: 285684

Ion	Ratio	Lower	Upper
91	100		
106	30.0	25.8	38.6

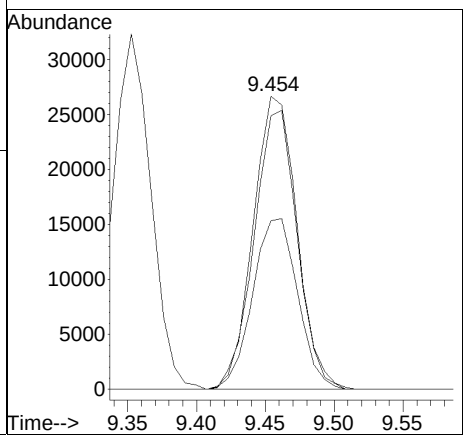


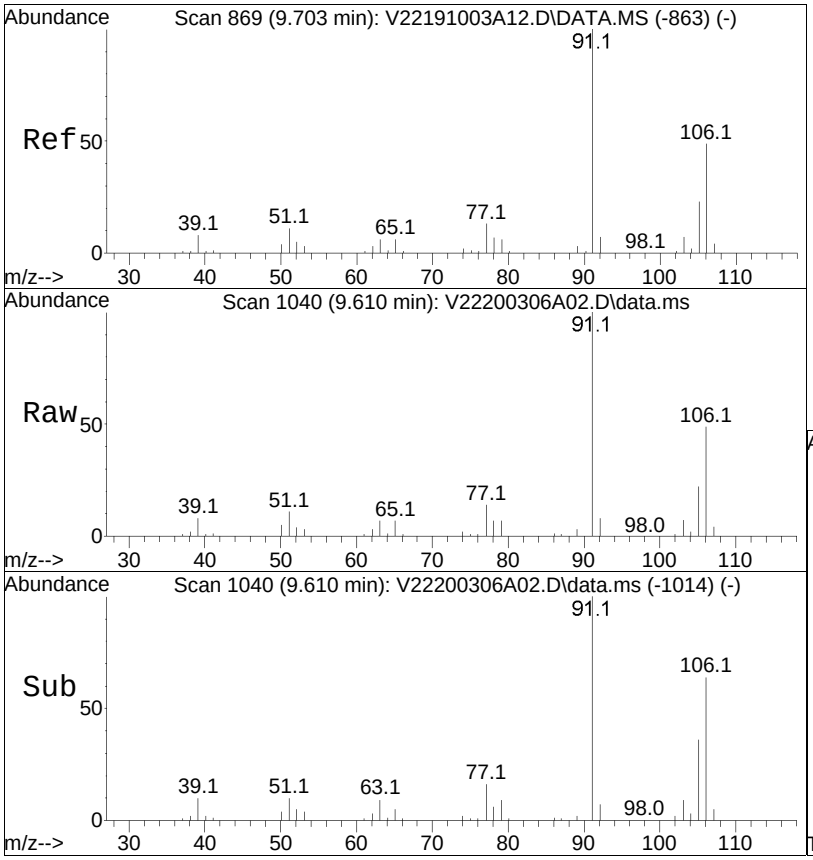


#79
1,1,1,2-Tetrachloroethane
Concen: 10.21 ug/L
RT: 9.454 min Scan# 1020
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:131 Resp: 59192

Ion	Ratio	Lower	Upper
131	100		
133	93.2	75.3	115.3
119	59.8	49.3	89.3

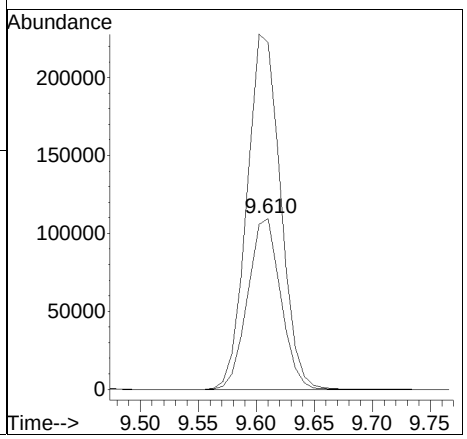


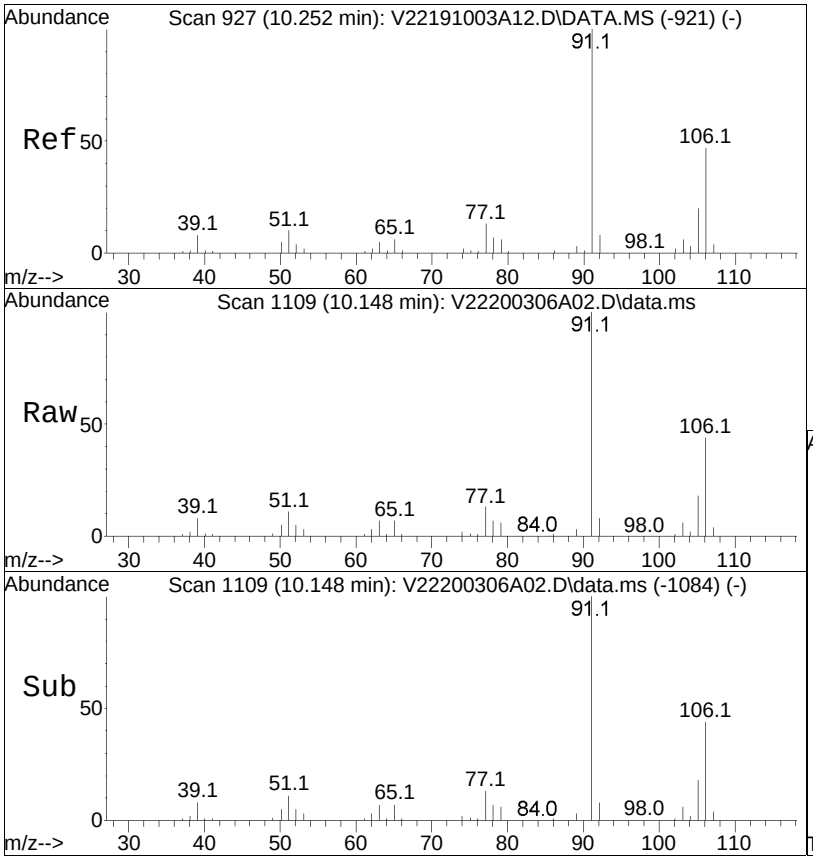


#80
p/m Xylene
Concen: 19.71 ug/L
RT: 9.610 min Scan# 1040
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:106 Resp: 216994

Ion	Ratio	Lower	Upper
106	100		
91	211.1	156.0	234.0

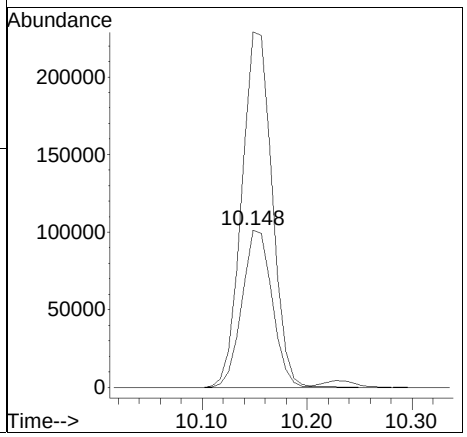


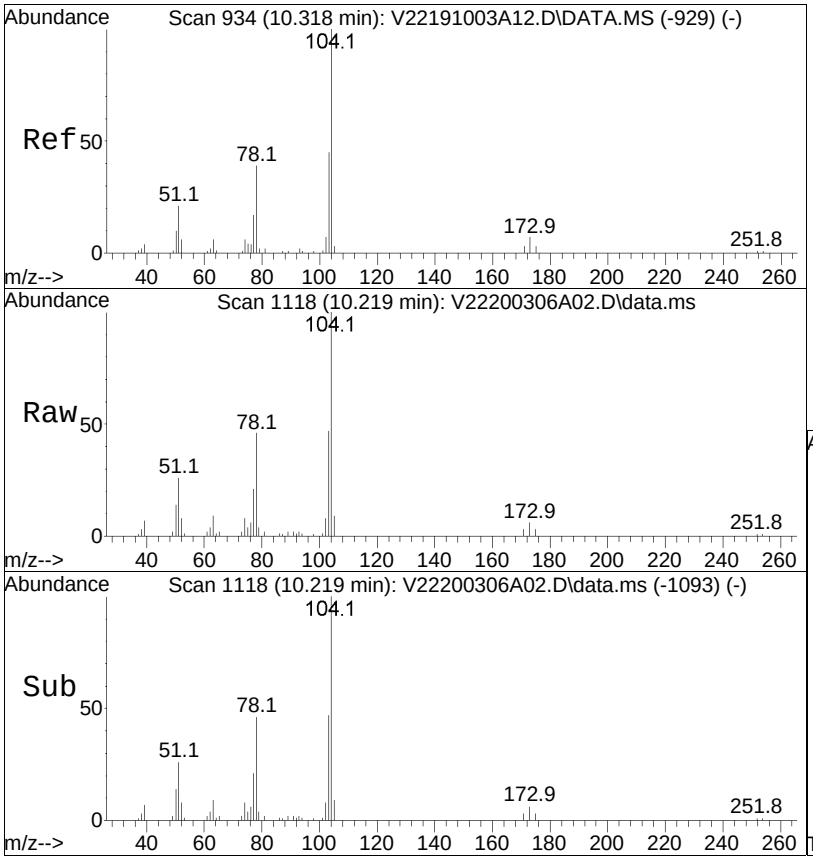


#81
o Xylene
Concen: 19.60 ug/L
RT: 10.148 min Scan# 1109
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:106 Resp: 203130

Ion	Ratio	Lower	Upper
106	100		
91	225.8	164.0	246.0

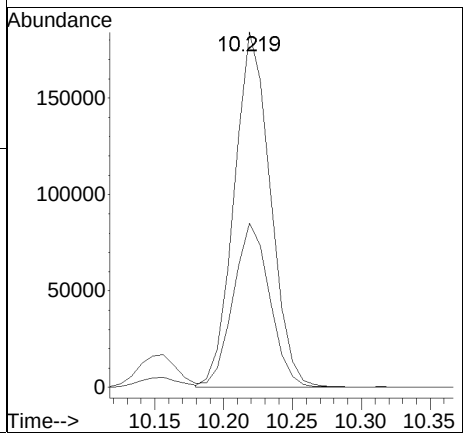


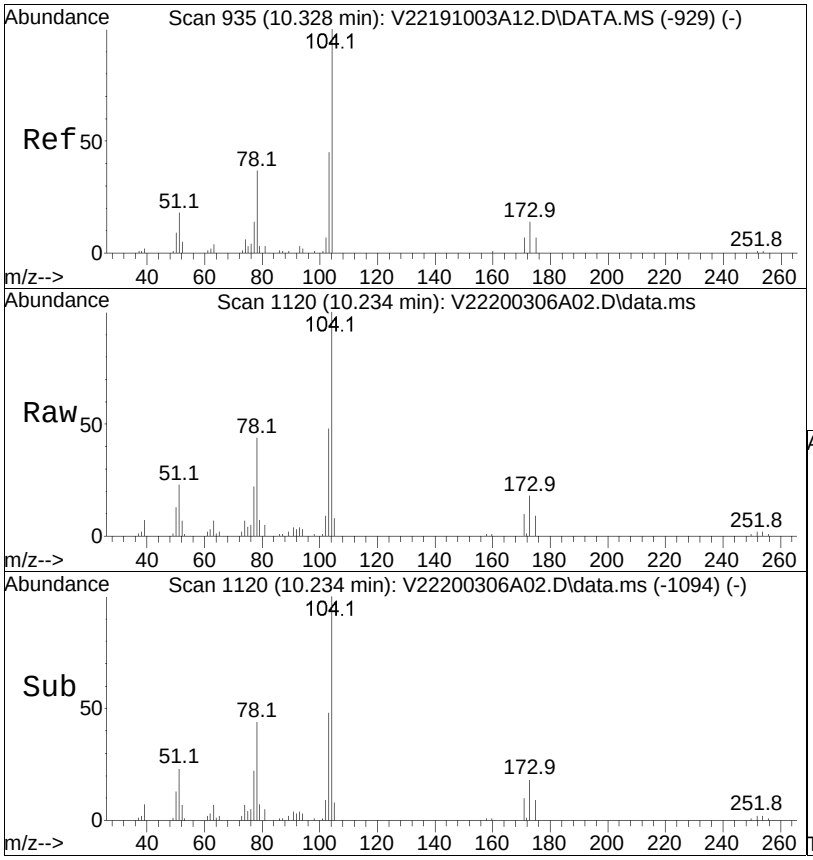


#82
Styrene
Concen: 19.79 ug/L
RT: 10.219 min Scan# 1118
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:104 Resp: 336775

Ion	Ratio	Lower	Upper
104	100		
78	46.8	32.1	48.1

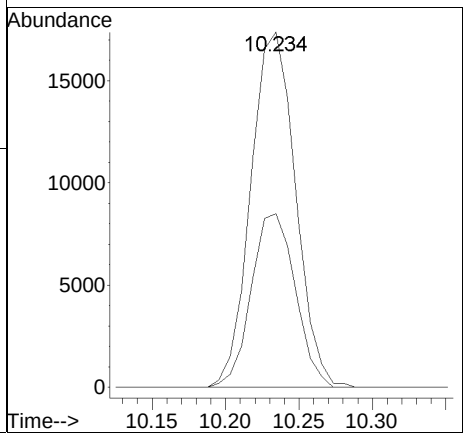


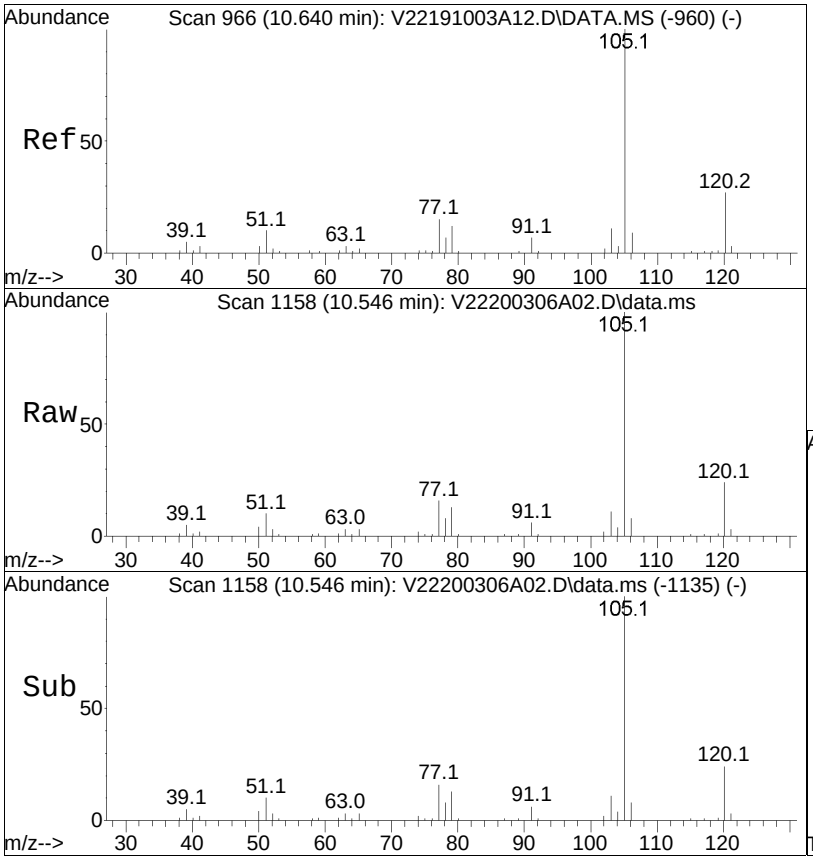


#84
Bromoform
Concen: 10.00 ug/L
RT: 10.234 min Scan# 1120
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:173 Resp: 36831

Ion	Ratio	Lower	Upper
173	100		
175	48.1	29.3	69.3

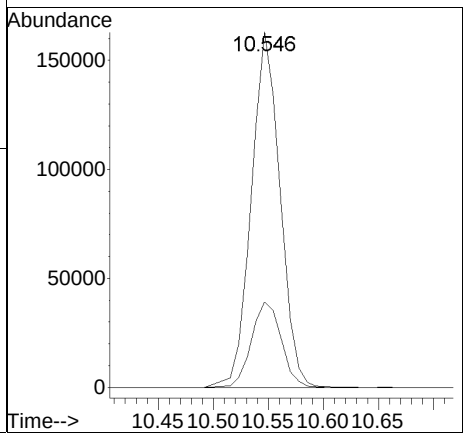


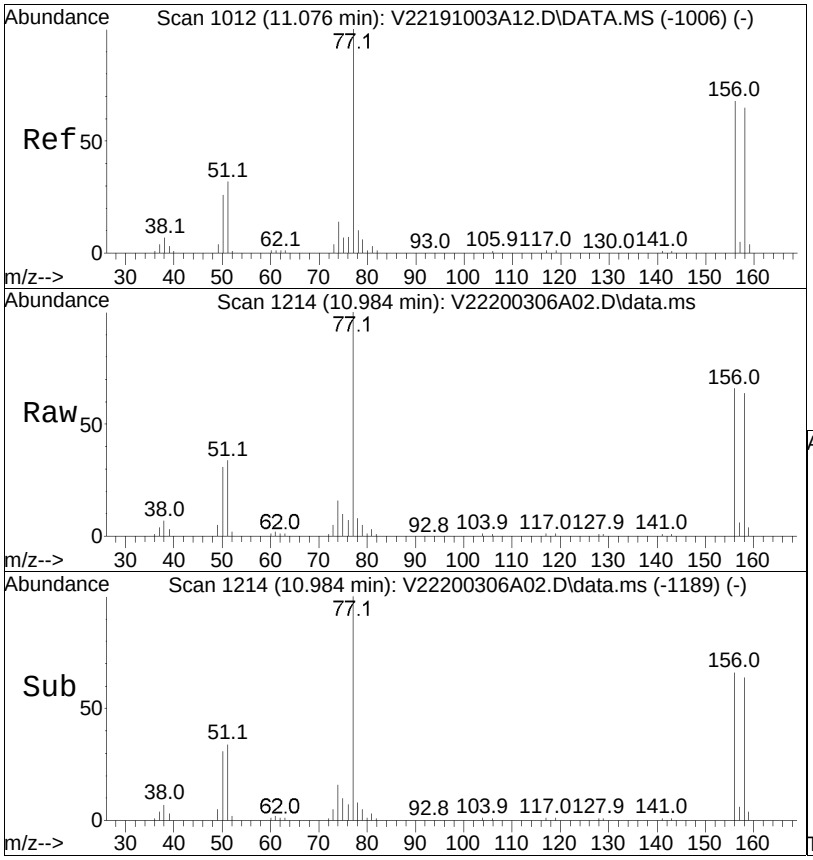


#86
Isopropylbenzene
Concen: 9.93 ug/L
RT: 10.546 min Scan# 1158
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:105 Resp: 326343

Ion	Ratio	Lower	Upper
105	100		
120	25.7	7.7	47.7

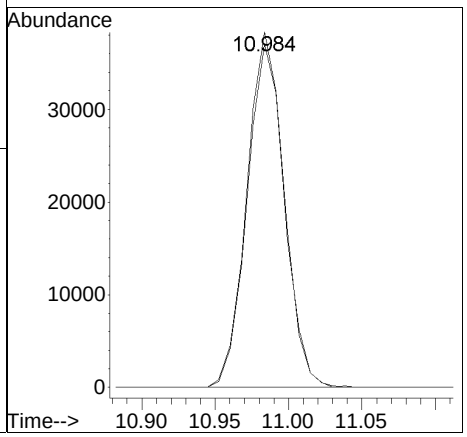


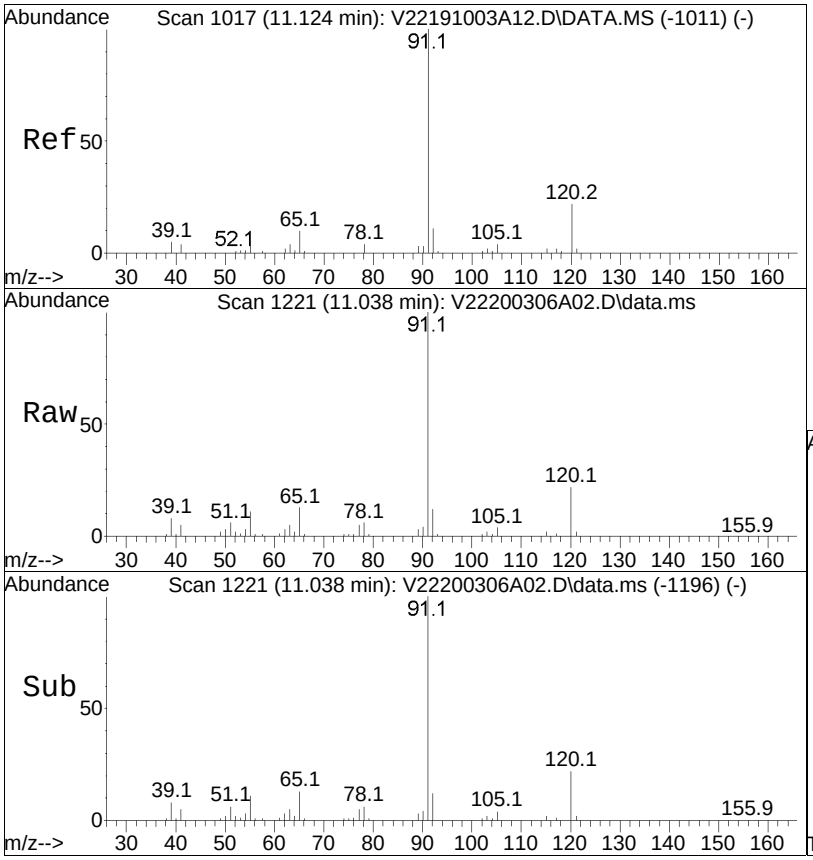


#88
Bromobenzene
Concen: 9.89 ug/L
RT: 10.984 min Scan# 1214
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:156 Resp: 67536

Ion	Ratio	Lower	Upper
156	100		
158	96.9	77.9	116.9

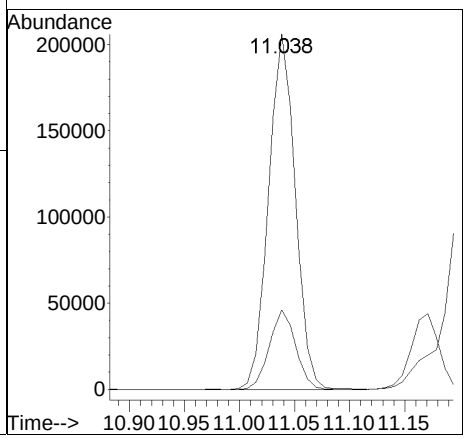


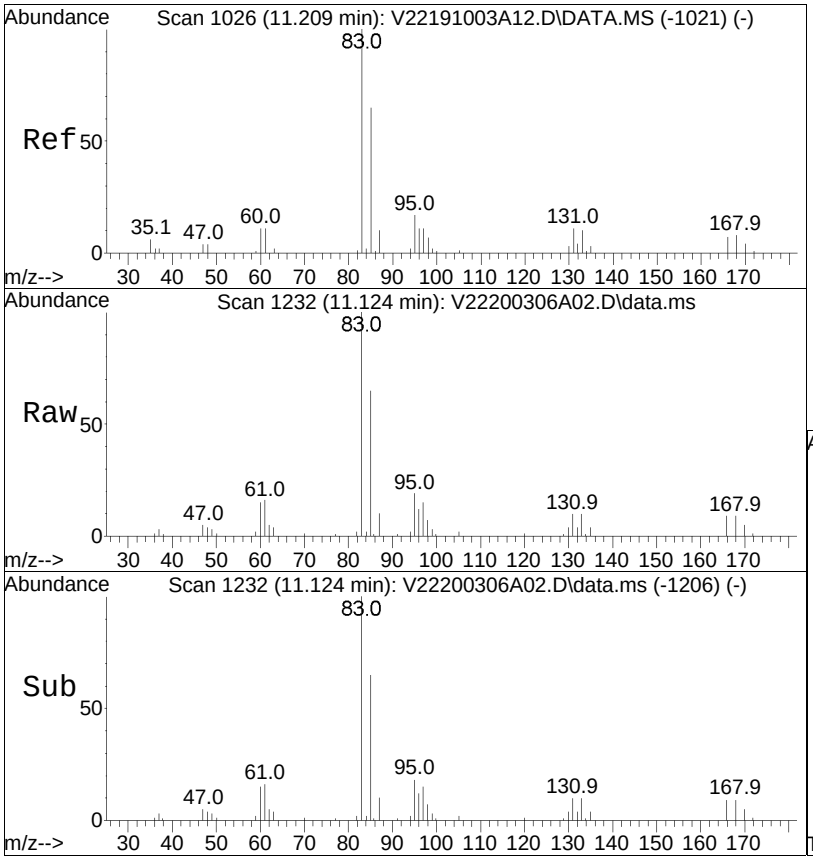


#89
n-Propylbenzene
Concen: 10.12 ug/L
RT: 11.038 min Scan# 1221
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 91 Resp: 347222

Ion	Ratio	Lower	Upper
91	100		
120	21.9	19.5	29.3

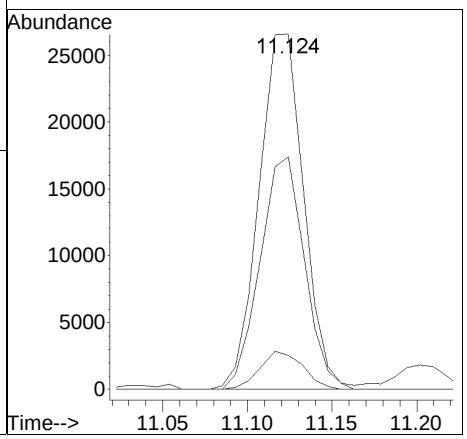


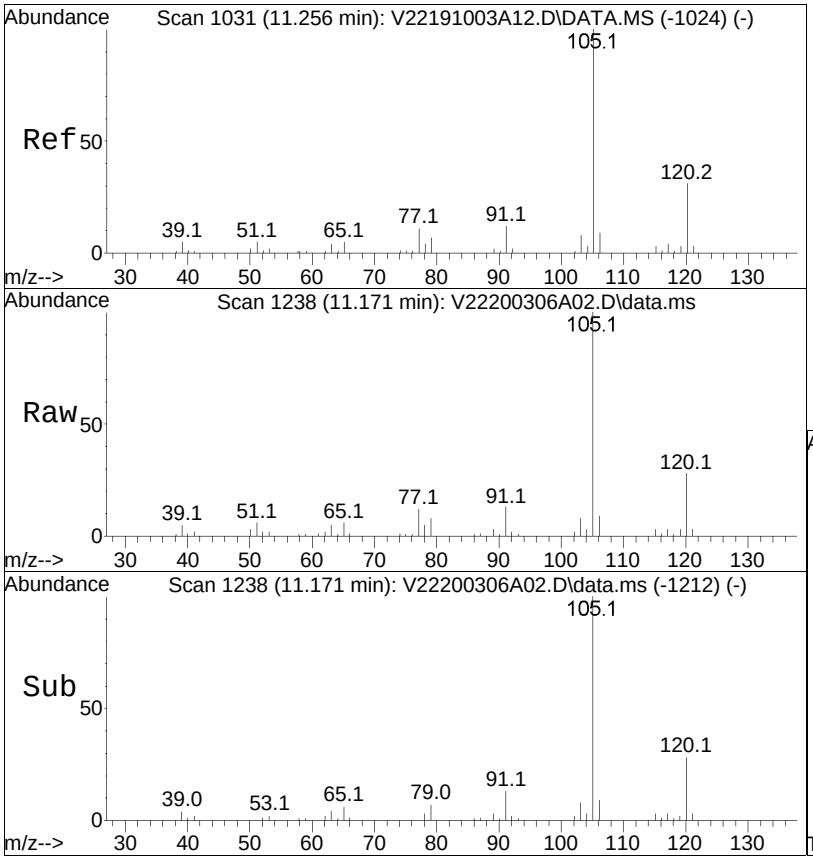


#91
1,1,2,2-Tetrachloroethane
Concen: 9.60 ug/L
RT: 11.124 min Scan# 1232
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 83 Resp: 48732

Ion	Ratio	Lower	Upper
83	100		
131	10.4	0.0	30.8
85	65.6	45.4	85.4

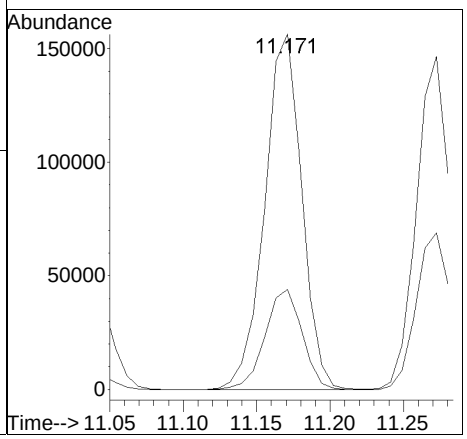


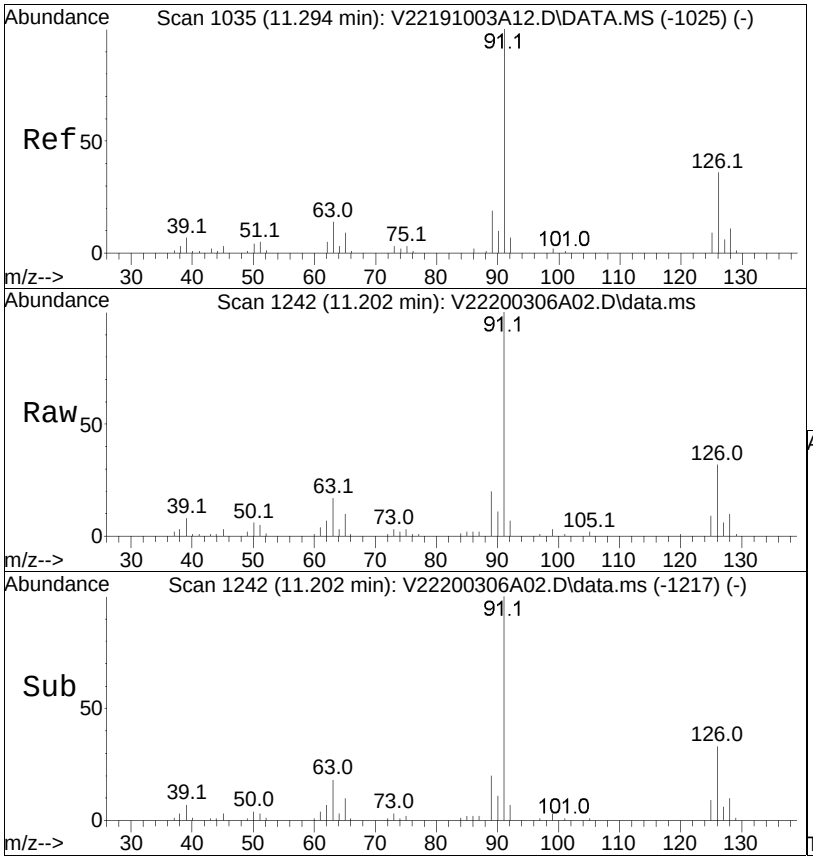


#92
4-Ethyltoluene
Concen: 10.28 ug/L
RT: 11.171 min Scan# 1238
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:105 Resp: 274469

Ion	Ratio	Lower	Upper
105	100		
120	28.1	19.8	41.0

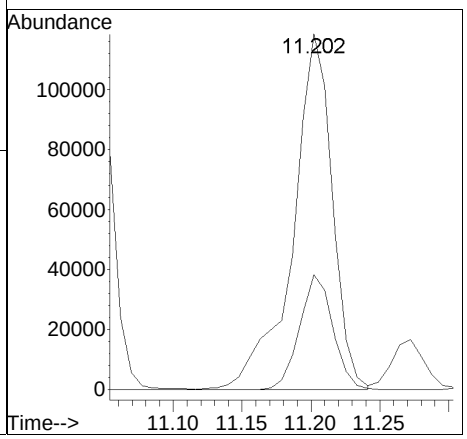


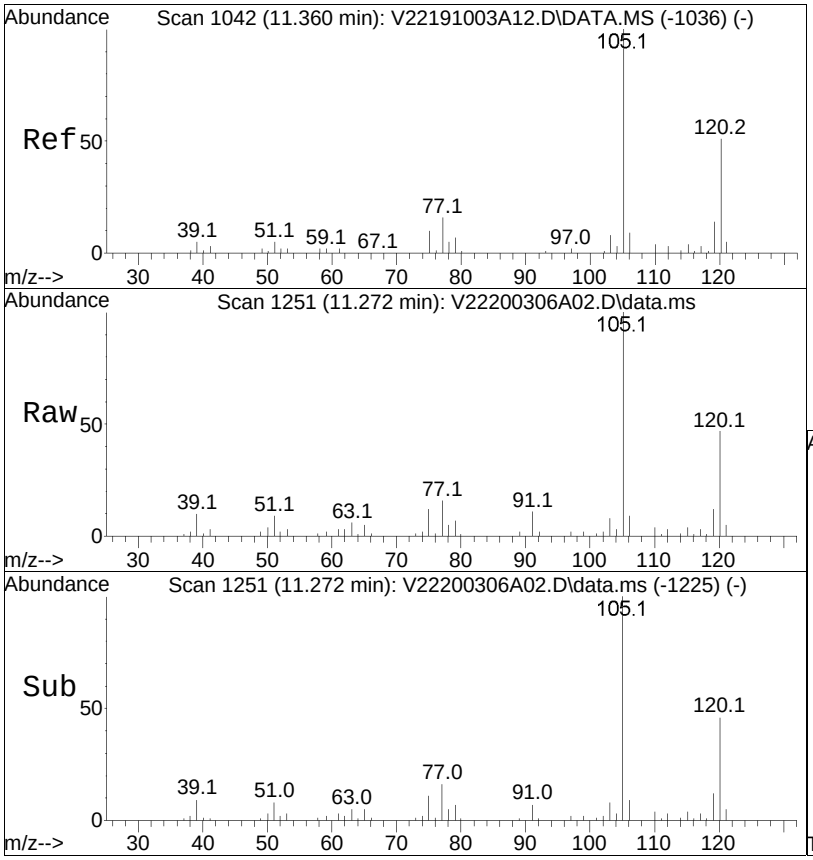


#93
2-Chlorotoluene
Concen: 10.78 ug/L
RT: 11.202 min Scan# 1242
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 91 Resp: 236203

Ion	Ratio	Lower	Upper
91	100		
126	27.1	24.6	37.0

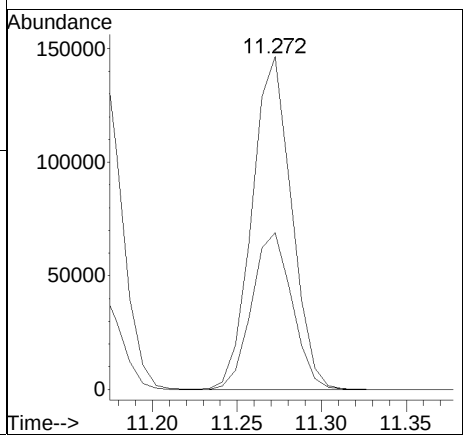


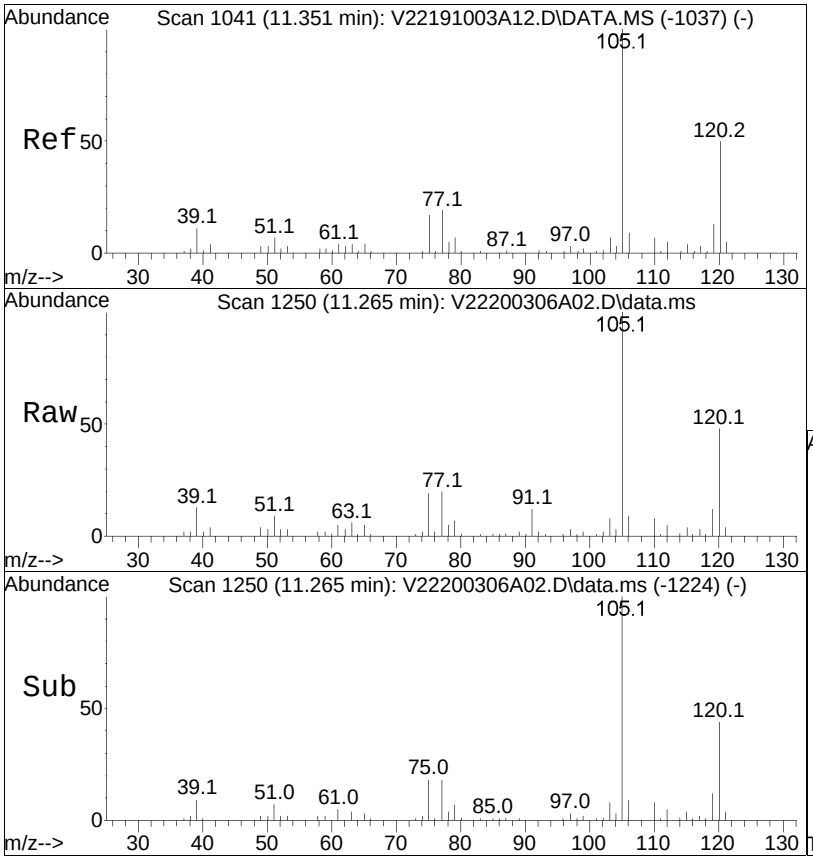


#94
1,3,5-Trimethylbenzene
Concen: 10.19 ug/L
RT: 11.272 min Scan# 1251
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:105 Resp: 237744

Ion	Ratio	Lower	Upper
105	100		
120	48.1	40.9	61.3

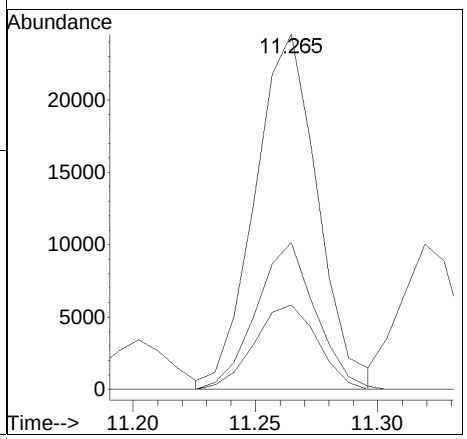


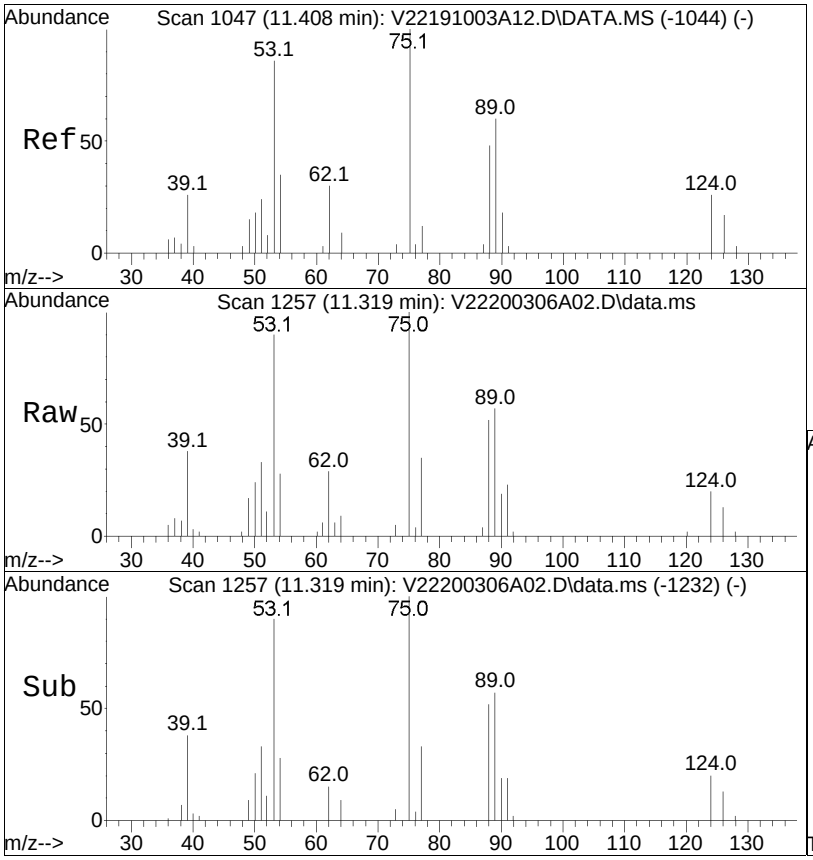


#95
1,2,3-Trichloropropane
Concen: 10.07 ug/L
RT: 11.265 min Scan# 1250
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 75 Resp: 43835

Ion	Ratio	Lower	Upper
75	100		
110	39.1	26.3	54.7
112	23.9	16.8	35.0

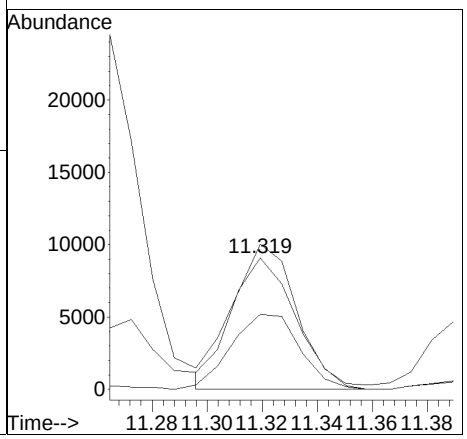


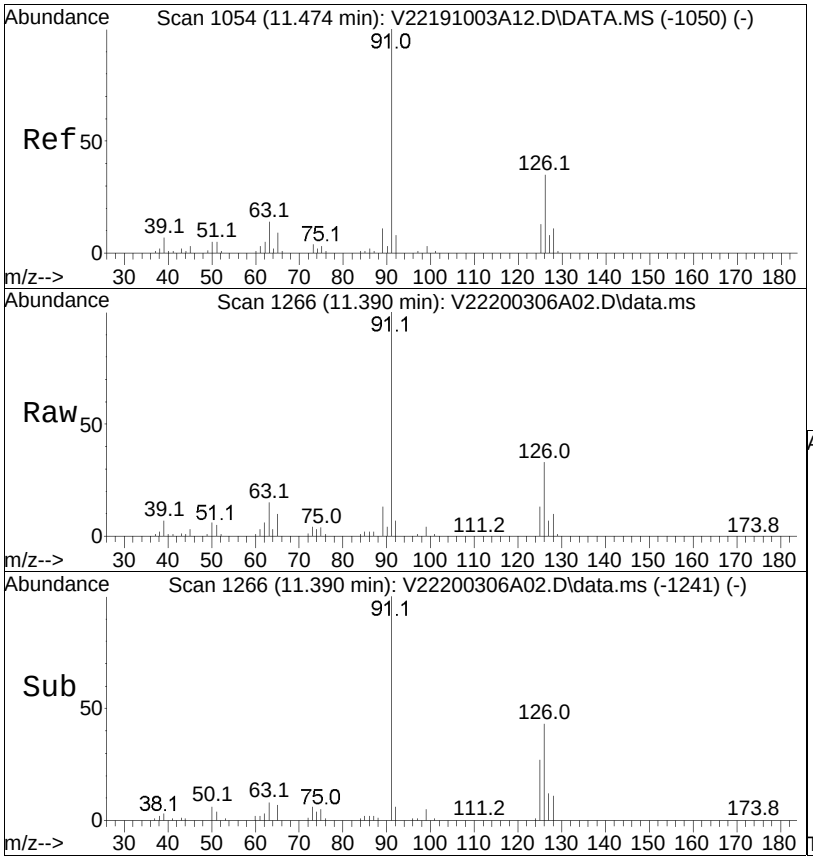


#96
trans-1,4-Dichloro-2-butene
Concen: 10.22 ug/L
RT: 11.319 min Scan# 1257
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 53 Resp: 14759

Ion	Ratio	Lower	Upper
53	100		
88	61.2	46.3	69.5
75	110.7	109.0	163.4

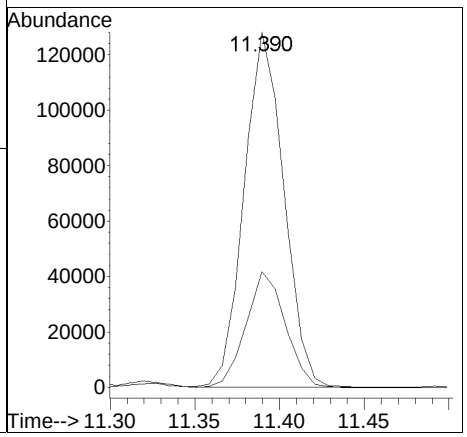


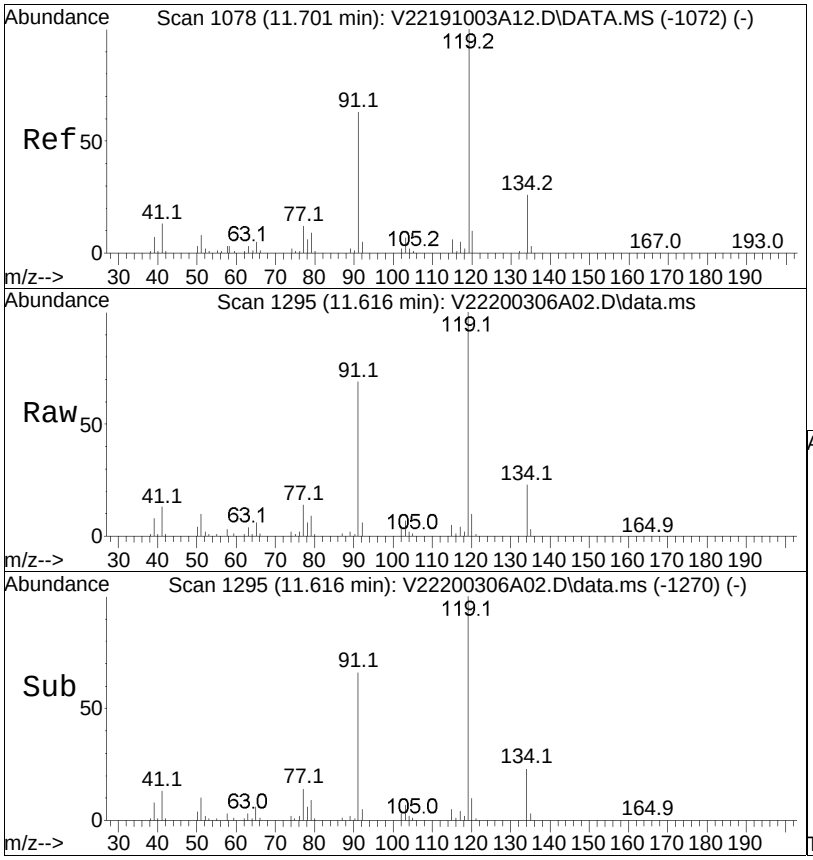


#97
4-Chlorotoluene
Concen: 10.45 ug/L
RT: 11.390 min Scan# 1266
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 91 Resp: 208007

Ion	Ratio	Lower	Upper
91	100		
126	32.4	28.5	42.7

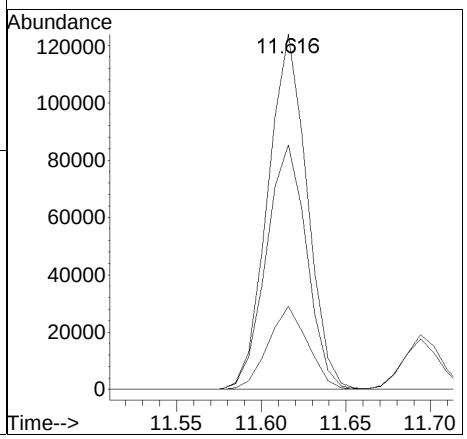


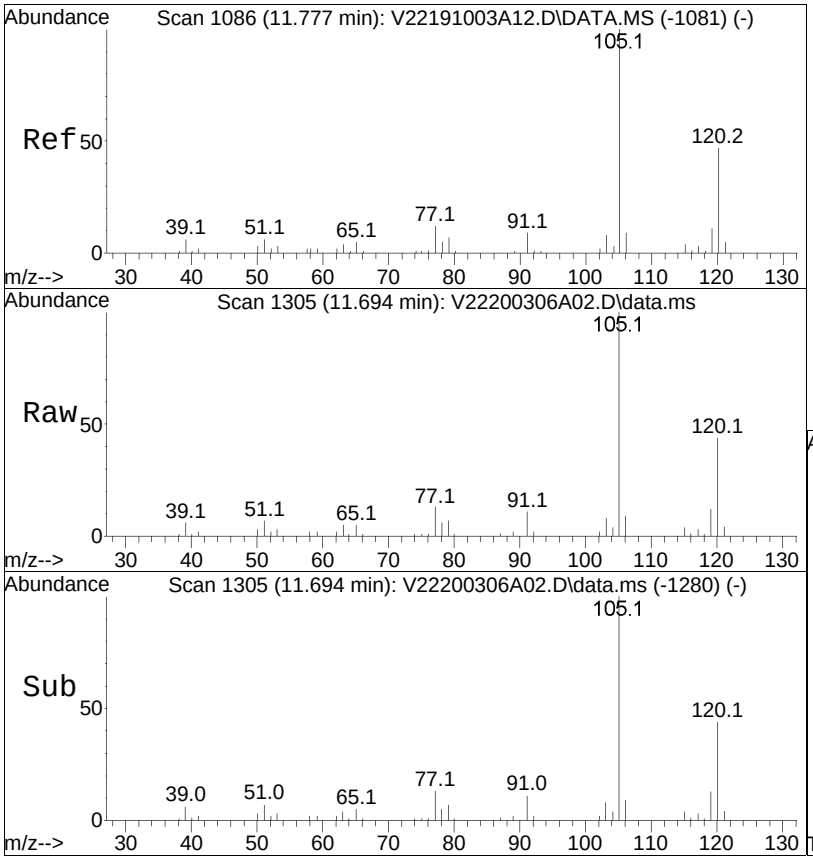


#98
tert-Butylbenzene
Concen: 9.72 ug/L
RT: 11.616 min Scan# 1295
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:119 Resp: 200144

Ion	Ratio	Lower	Upper
119	100		
91	71.1	50.2	75.4
134	23.5	20.8	31.2

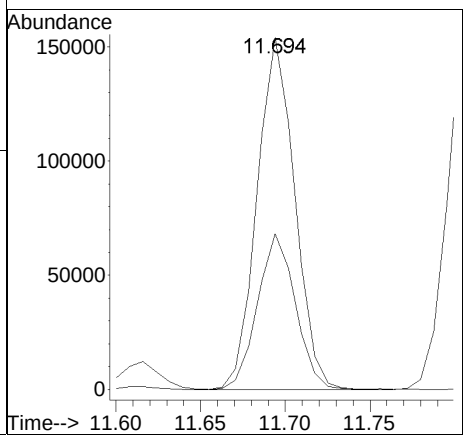


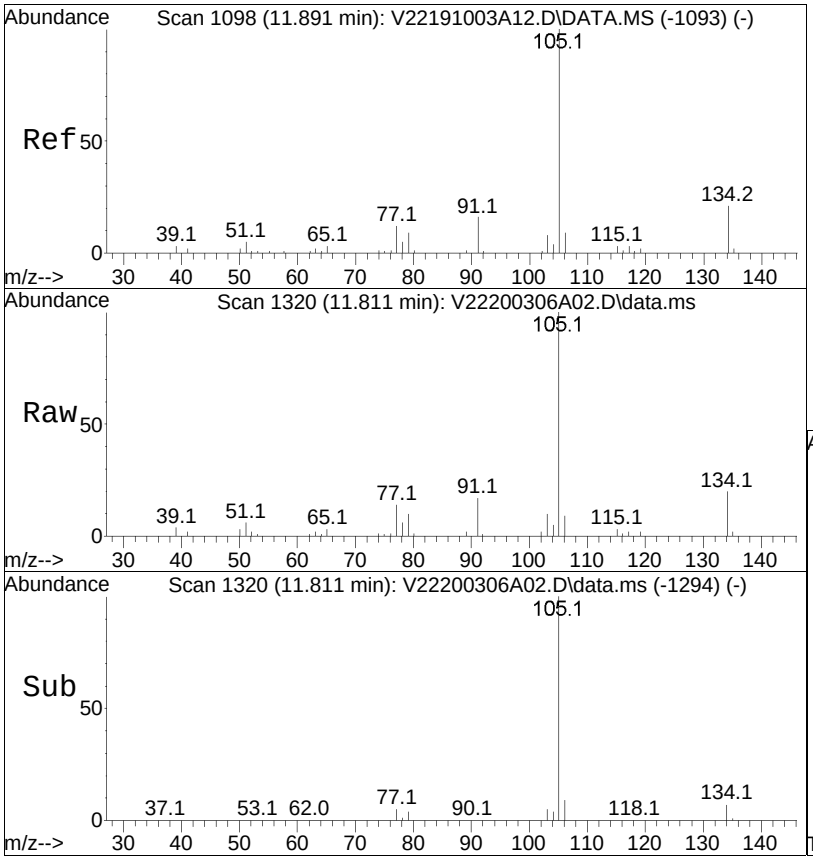


#101
1,2,4-Trimethylbenzene
Concen: 10.55 ug/L
RT: 11.694 min Scan# 1305
Delta R.T. -0.008 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:105 Resp: 238313

Ion	Ratio	Lower	Upper
105	100		
120	44.4	38.5	57.7

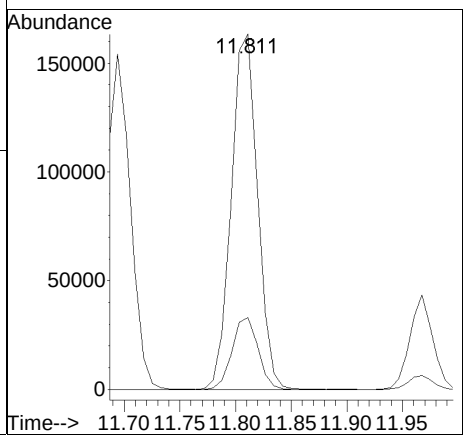


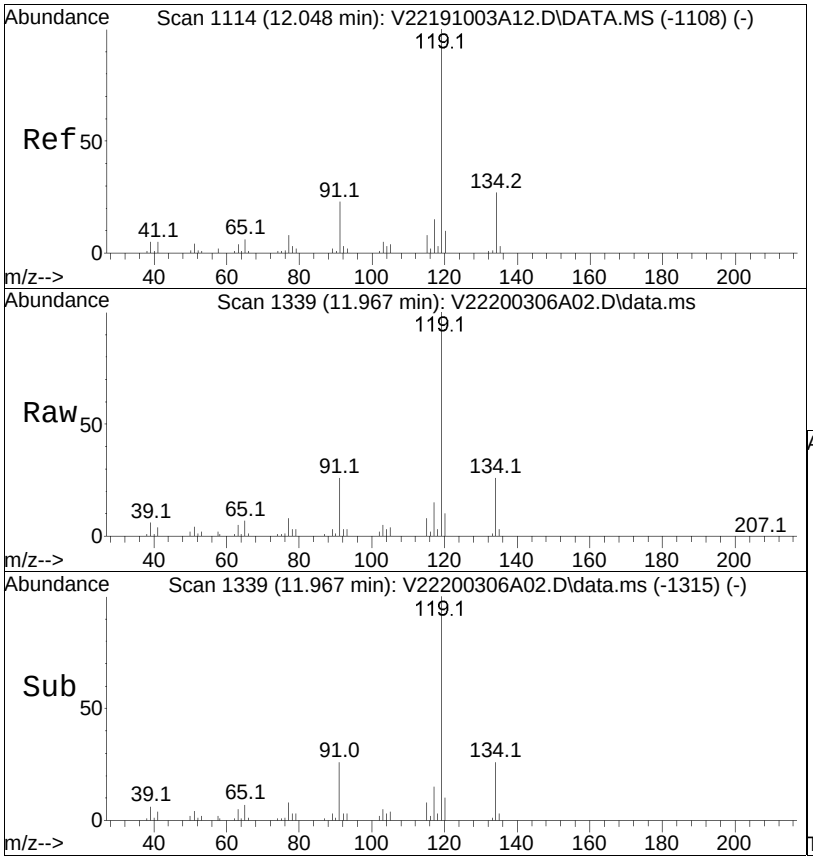


#102
sec-Butylbenzene
Concen: 10.03 ug/L
RT: 11.811 min Scan# 1320
Delta R.T. 0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:105 Resp: 295349

Ion	Ratio	Lower	Upper
105	100		
134	18.1	13.9	28.9

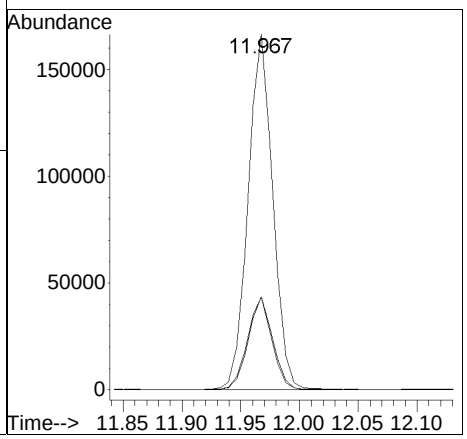


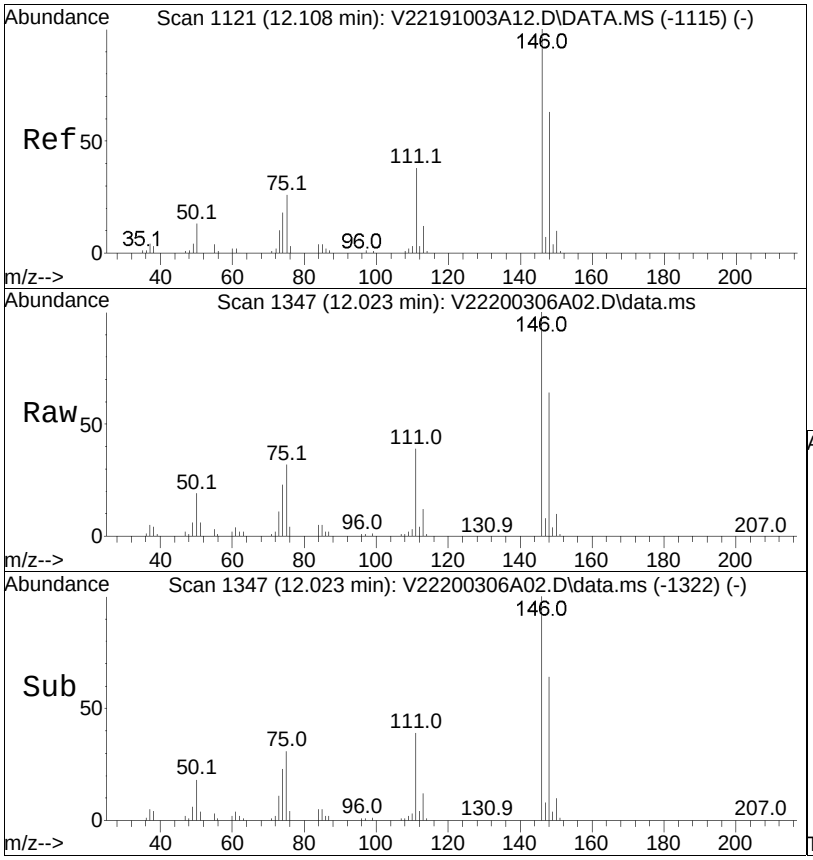


#103
p-Isopropyltoluene
Concen: 9.49 ug/L
RT: 11.967 min Scan# 1339
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:119 Resp: 242610

Ion	Ratio	Lower	Upper
119	100		
134	25.5	17.7	36.7
91	25.5	14.1	29.3

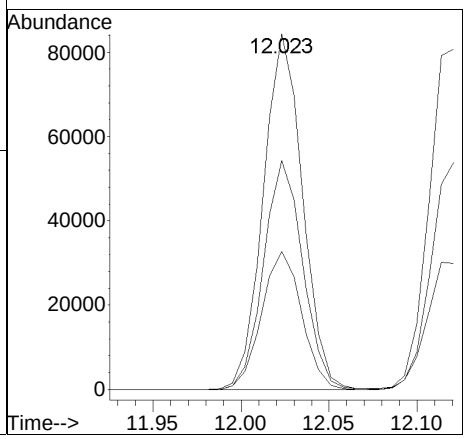


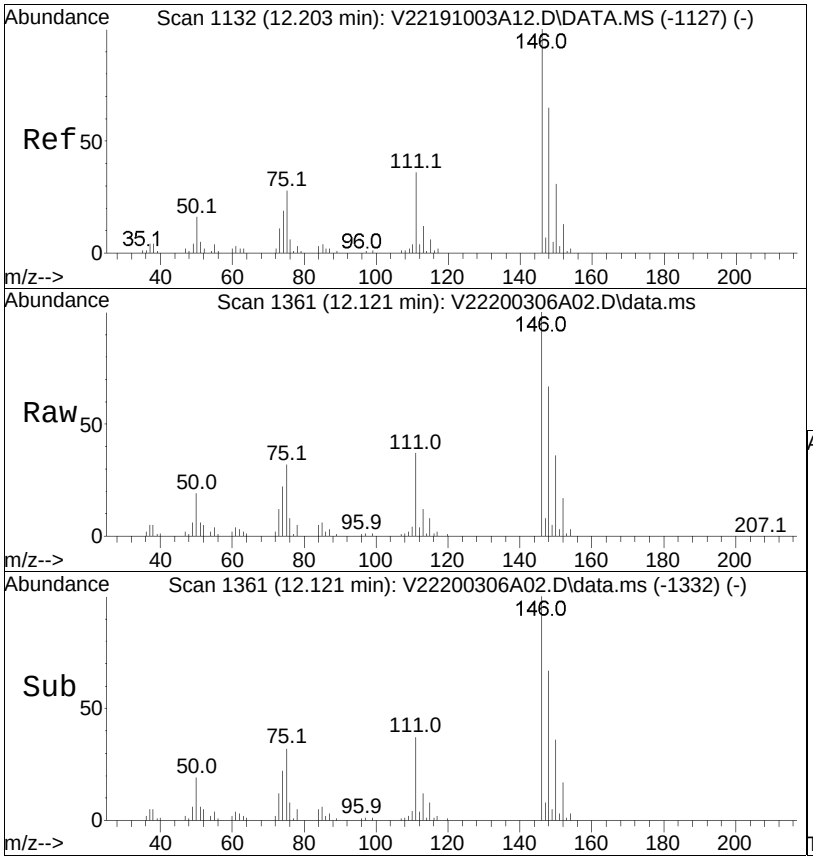


#104
1,3-Dichlorobenzene
Concen: 9.90 ug/L
RT: 12.023 min Scan# 1347
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:146 Resp: 130451

Ion	Ratio	Lower	Upper
146	100		
111	39.6	24.0	49.8
148	64.4	41.8	86.8

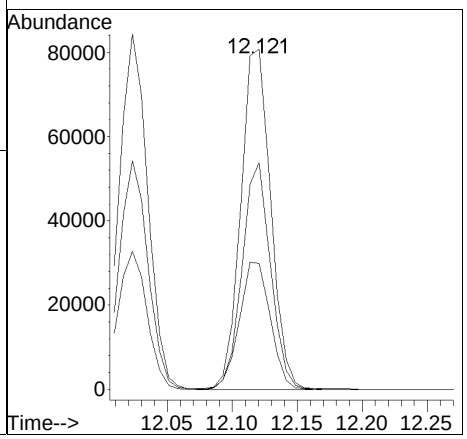


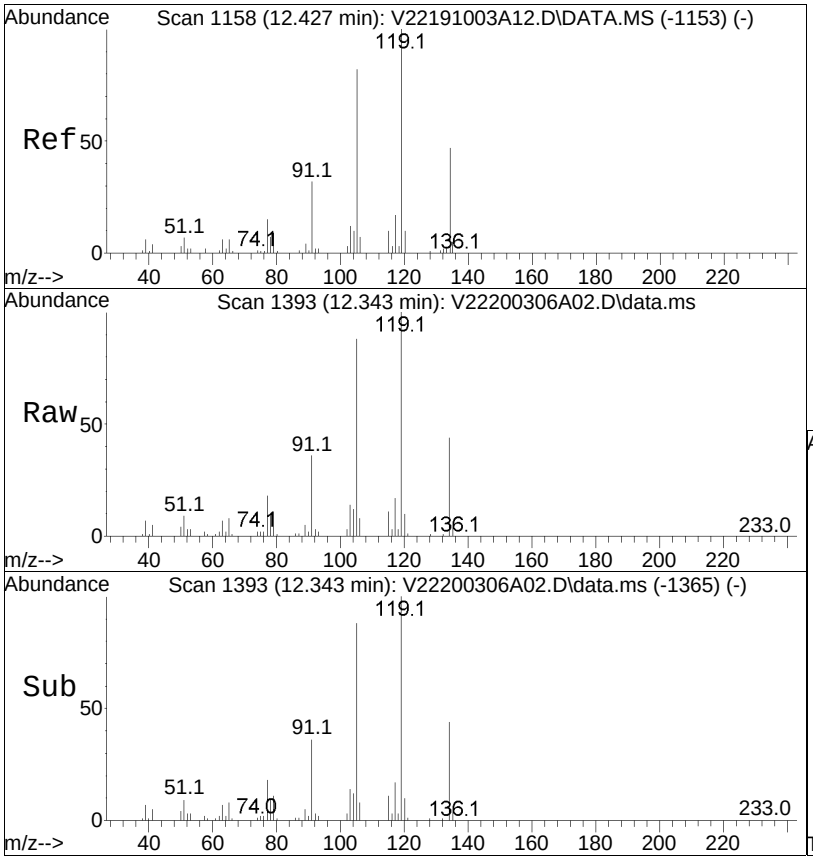


#105
1,4-Dichlorobenzene
Concen: 10.00 ug/L
RT: 12.121 min Scan# 1361
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:146 Resp: 129733

Ion	Ratio	Lower	Upper
146	100		
111	38.7	28.9	43.3
148	63.2	51.4	77.2

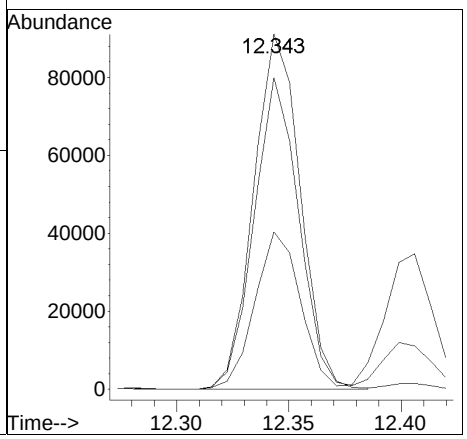


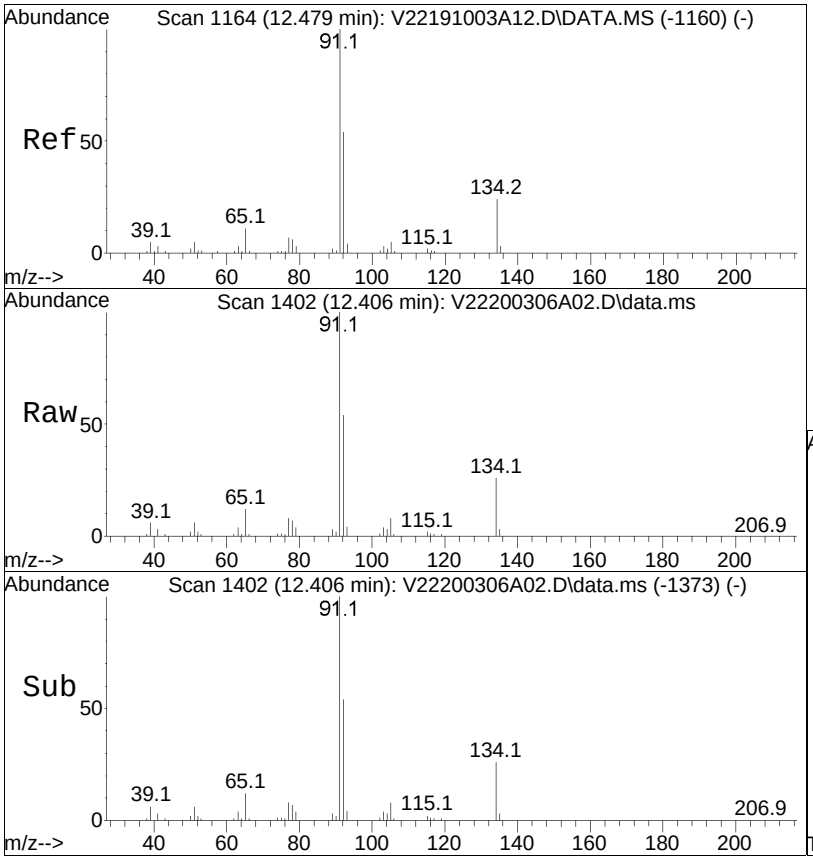


#106
p-Diethylbenzene
Concen: 10.12 ug/L
RT: 12.343 min Scan# 1393
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:119 Resp: 131738

Ion	Ratio	Lower	Upper
119	100		
105	84.4	53.4	110.8
134	43.5	30.9	64.1

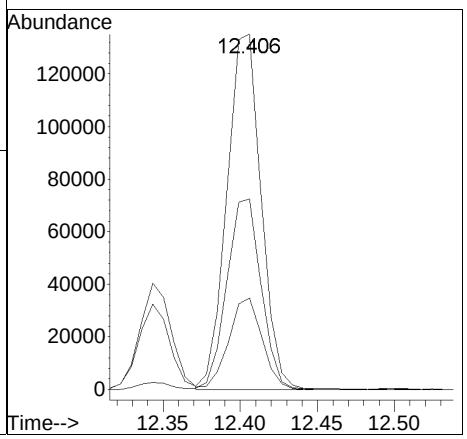


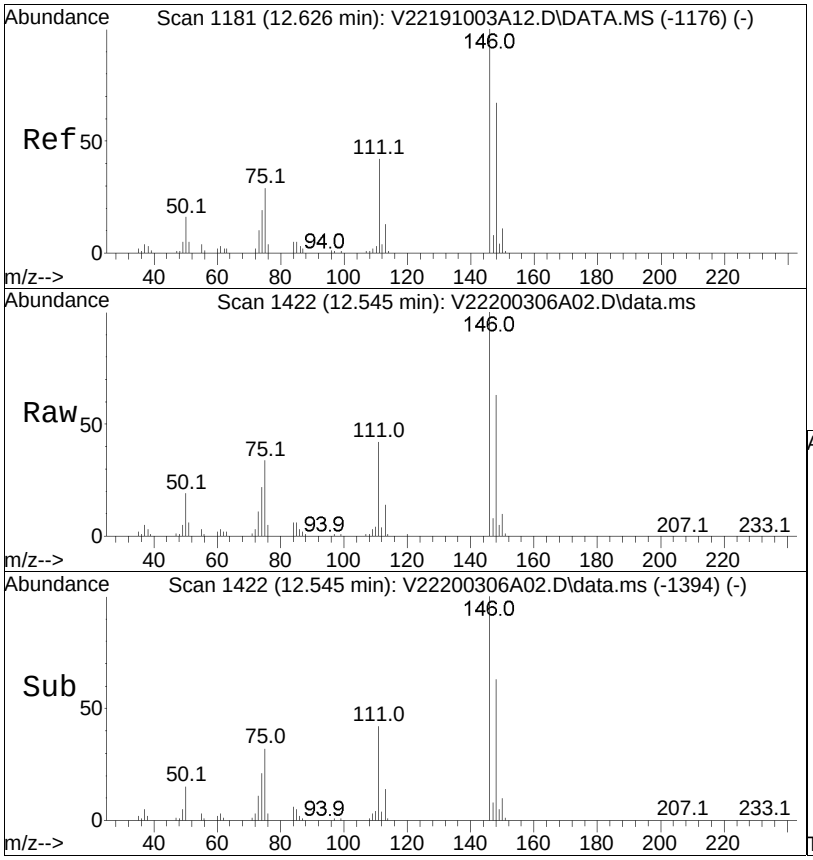


#107
n-Butylbenzene
Concen: 10.43 ug/L
RT: 12.406 min Scan# 1402
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion: 91 Resp: 208690

Ion	Ratio	Lower	Upper
91	100		
92	53.6	44.6	66.8
134	25.1	22.9	34.3

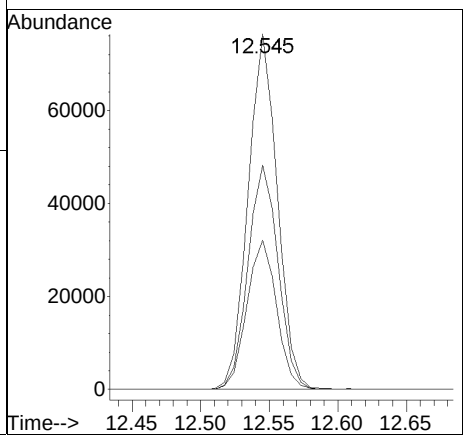


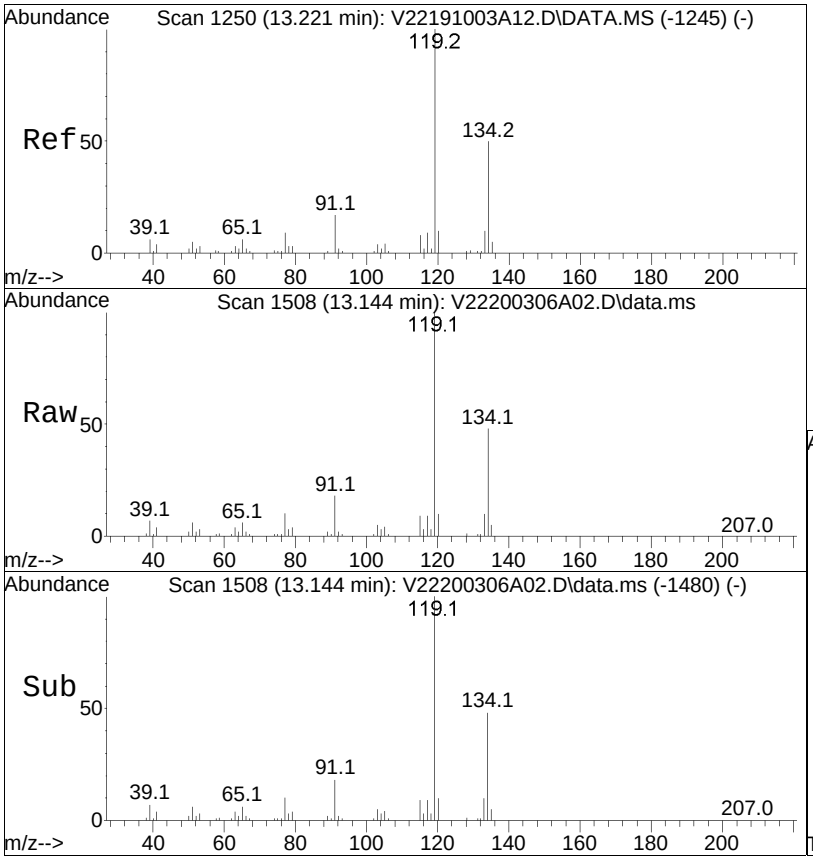


#108
1,2-Dichlorobenzene
Concen: 9.70 ug/L
RT: 12.545 min Scan# 1422
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:146 Resp: 113576

Ion	Ratio	Lower	Upper
146	100		
111	42.5	24.8	51.6
148	64.8	42.2	87.6

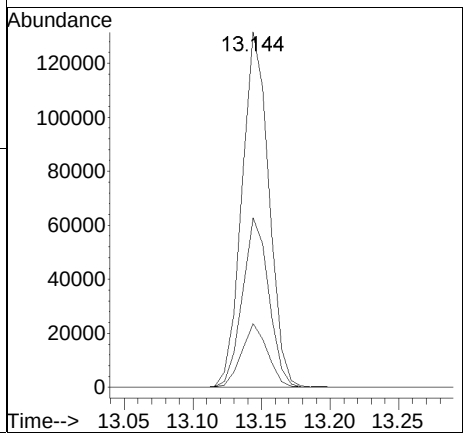


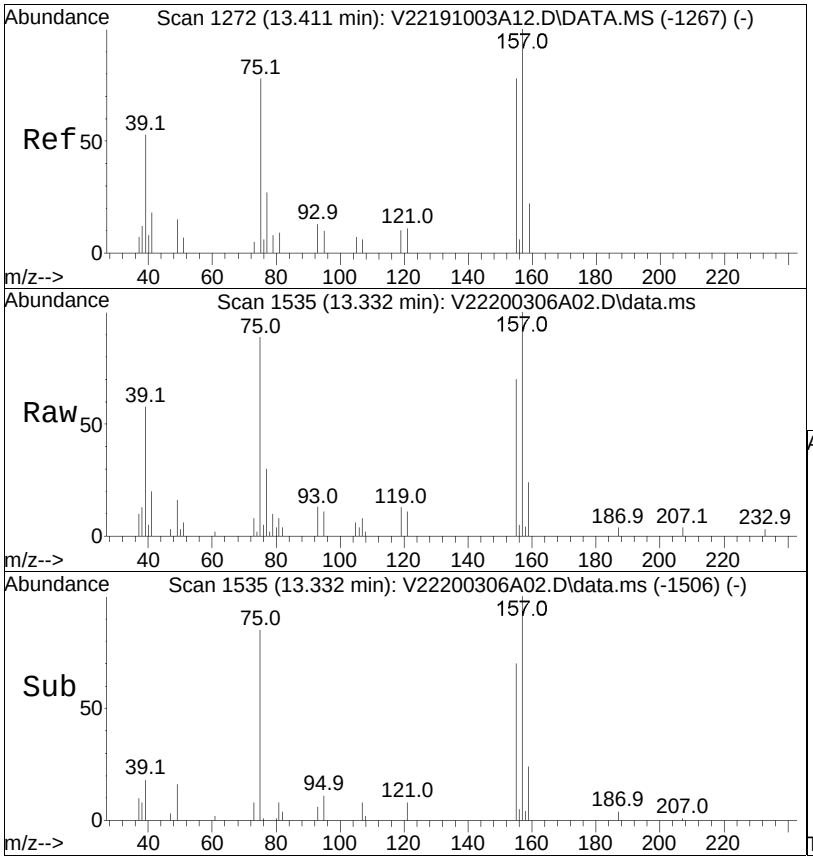


#109
1,2,4,5-Tetramethylbenzene
Concen: 10.35 ug/L
RT: 13.144 min Scan# 1508
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:119 Resp: 180155

Ion	Ratio	Lower	Upper
119	100		
134	46.8	31.9	66.1
91	17.3	9.8	20.3

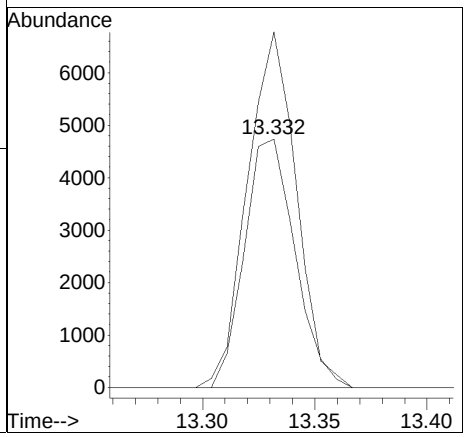


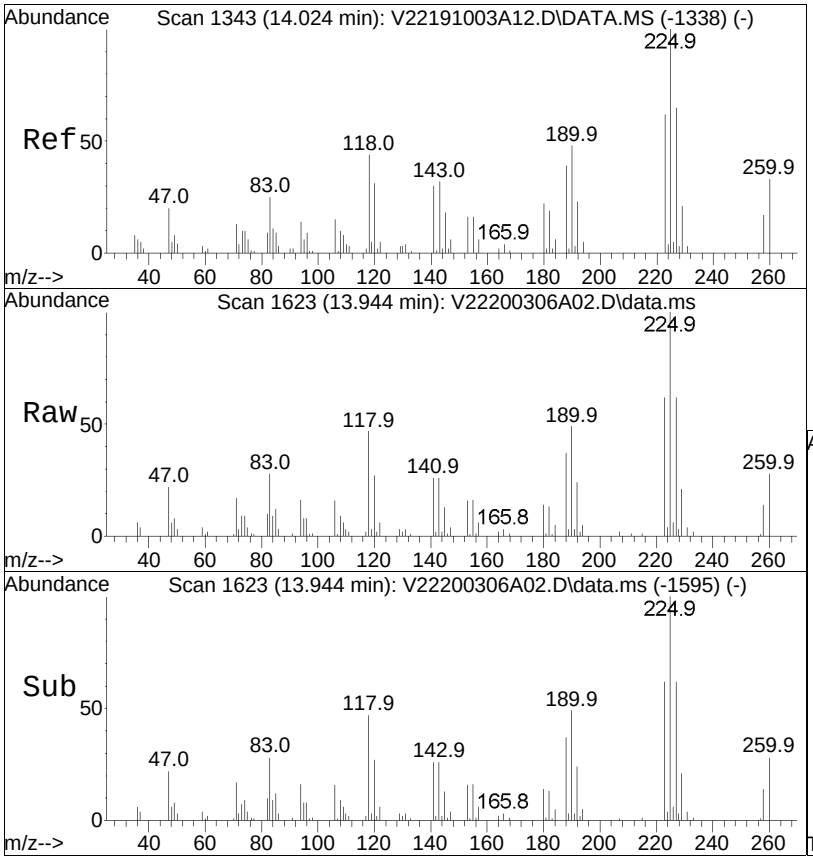


#110
1,2-Dibromo-3-chloropropane
Concen: 8.31 ug/L
RT: 13.332 min Scan# 1535
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:155 Resp: 7416

Ion	Ratio	Lower	Upper
155	100		
157	138.1	102.3	153.5

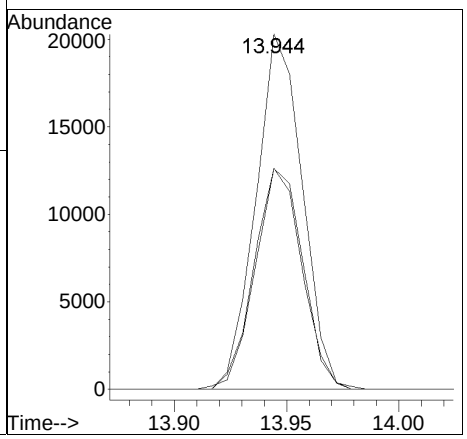


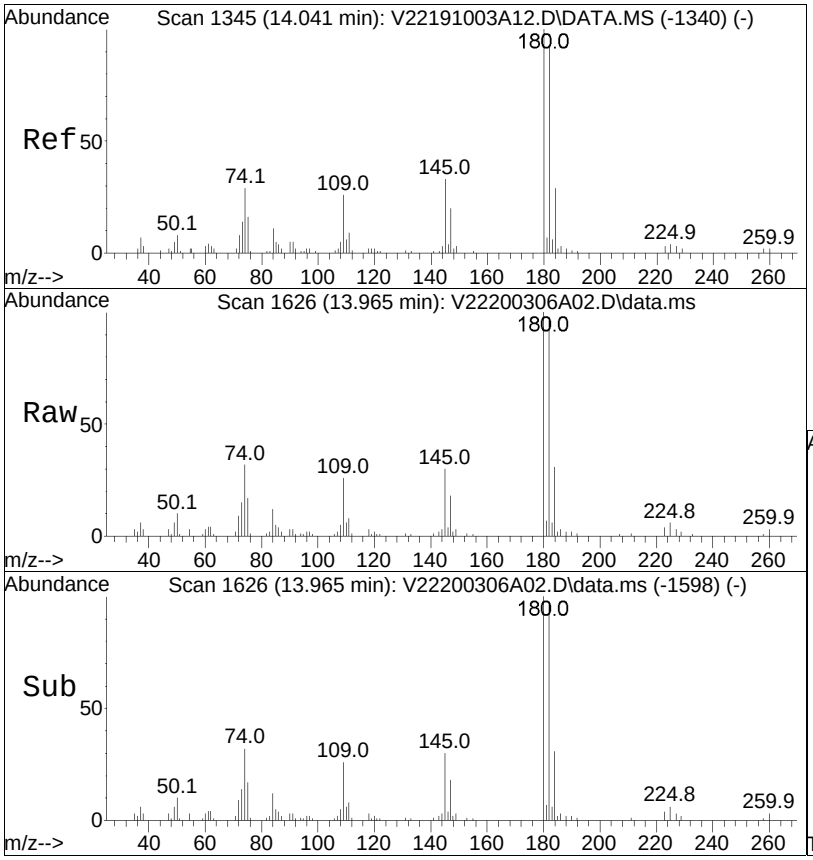


#112
Hexachlorobutadiene
Concen: 11.87 ug/L
RT: 13.944 min Scan# 1623
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:225 Resp: 29255

Ion	Ratio	Lower	Upper
225	100		
223	64.0	49.8	74.8
227	64.1	52.2	78.4

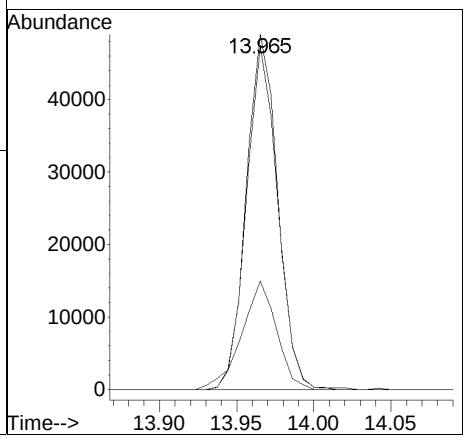


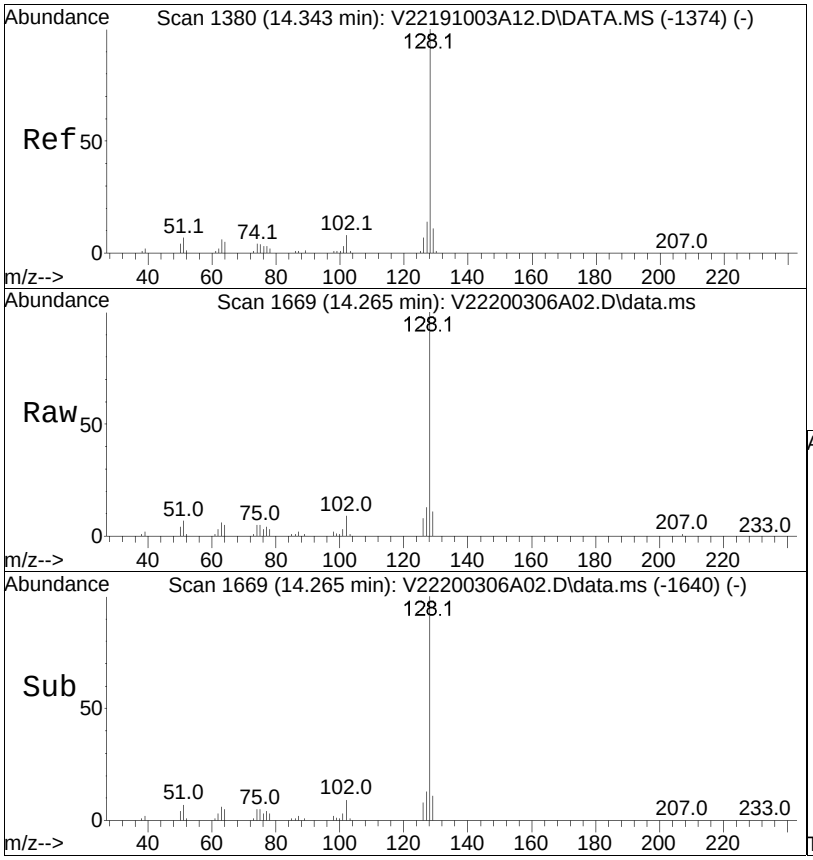


#113
1,2,4-Trichlorobenzene
Concen: 10.36 ug/L
RT: 13.965 min Scan# 1626
Delta R.T. -0.007 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:180 Resp: 69598

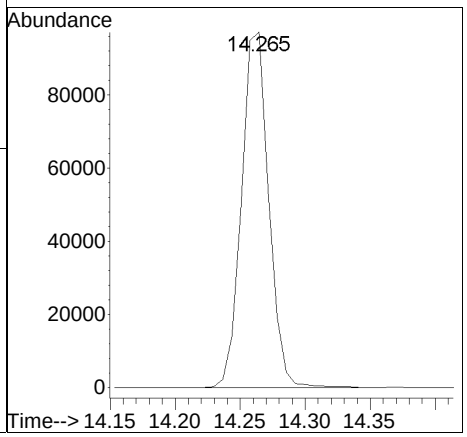
Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.6	114.8
145	33.6	25.5	38.3

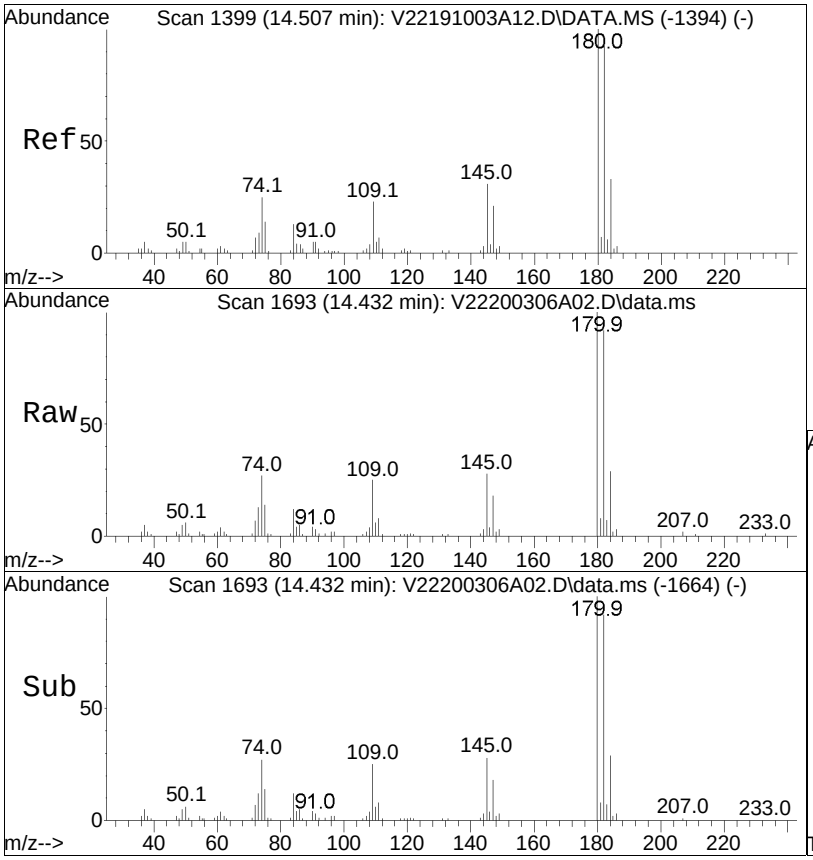




#114
Naphthalene
Concen: 9.07 ug/L
RT: 14.265 min Scan# 1669
Delta R.T. -0.001 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:128 Resp: 141389

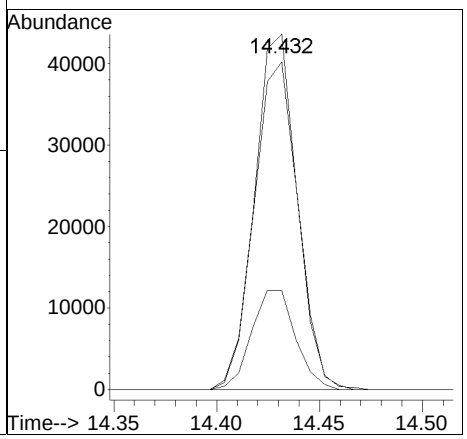




#115
1,2,3-Trichlorobenzene
Concen: 10.23 ug/L
RT: 14.432 min Scan# 1693
Delta R.T. -0.000 min
Lab File: V22200306A02.D
Acq: 06 Mar 2020 10:11 am

Tgt Ion:180 Resp: 63039

Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.0	114.0
145	28.7	23.8	35.8



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A02.D
Acq On : 7 Mar 2020 9:55 am
Operator : VOA101:MKS
Sample : WG1348564-4,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 11:18:58 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.634	96	223803	10.000	ug/L	0.00
Standard Area 1 = 235149			Recovery = 95.17%			
59) Chlorobenzene-d5	10.524	117	161802	10.000	ug/L	0.00
Standard Area 1 = 168234			Recovery = 96.18%			
79) 1,4-Dichlorobenzene-d4	13.323	152	83096	10.000	ug/L	0.00
Standard Area 1 = 84540			Recovery = 98.29%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.745	113	56596	9.817	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 98.17%		
43) 1,2-Dichloroethane-d4	6.323	65	61104	9.888	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 98.88%		
60) Toluene-d8	8.495	98	224611	9.717	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 97.17%		
83) 4-Bromofluorobenzene	12.030	95	84165	9.396	ug/L	0.00
Spiked Amount 10.000		Range 70 - 130		Recovery = 93.96%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.821	85	39162	9.716	ug/L	99
3) Chloromethane	2.034	50	70223	11.513	ug/L	99
4) Vinyl chloride	2.122	62	63567	11.149	ug/L	100
5) Bromomethane	2.465	94	21683	9.358	ug/L	99
6) Chloroethane	2.602	64	40525	12.253	ug/L	96
7) Trichlorofluoromethane	2.754	101	76736	11.539	ug/L	98
8) Ethyl ether	3.076	74	22782	12.005	ug/L	74
10) 1,1-Dichloroethene	3.289	96	48012	11.806	ug/L	84
11) Carbon disulfide	3.327	76	123929	11.246	ug/L	99
15) Methylene chloride	3.889	84	50354	11.863	ug/L	81
17) Acetone	3.933	43	10273	12.267	ug/L	93
18) trans-1,2-Dichloroethene	4.059	96	50935	11.769	ug/L	87
20) Methyl tert-butyl ether	4.162	73	106097	11.520	ug/L	91
23) 1,1-Dichloroethane	4.697	63	111430	11.994	ug/L	98
25) Acrylonitrile	4.741	53	12010	12.805	ug/L	96
27) Vinyl acetate	4.942	43	114428	12.195	ug/L	96
28) cis-1,2-Dichloroethene	5.264	96	60500	11.773	ug/L	86
29) 2,2-Dichloropropane	5.373	77	82966	12.839	ug/L	96
30) Bromochloromethane	5.472	128	24080	12.228	ug/L #	81
32) Chloroform	5.548	83	95978	11.869	ug/L	96

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A02.D
Acq On : 7 Mar 2020 9:55 am
Operator : VOA101:MKS
Sample : WG1348564-4,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 11:18:58 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) Carbon tetrachloride	5.706	117	73417	11.255	ug/L		97
37) 1,1,1-Trichloroethane	5.777	97	85869	11.364	ug/L		97
39) 2-Butanone	5.865	43	14702	11.910	ug/L	#	41
40) 1,1-Dichloropropene	5.908	75	74488	11.508	ug/L		98
41) Benzene	6.181	78	205112	11.471	ug/L		93
44) 1,2-Dichloroethane	6.405	62	66320	11.815	ug/L		99
48) Trichloroethene	6.830	95	55864	11.337	ug/L		99
50) Dibromomethane	7.316	93	24318	11.467	ug/L		98
51) 1,2-Dichloropropane	7.431	63	61128	12.017	ug/L		95
54) Bromodichloromethane	7.507	83	65042	11.106	ug/L		98
57) 1,4-Dioxane	7.725	88	15064	724.603	ug/L	#	82
58) cis-1,3-Dichloropropene	8.265	75	81698	11.345	ug/L		96
61) Toluene	8.560	92	132607	11.355	ug/L		96
62) 4-Methyl-2-pentanone	9.024	58	12397	11.647	ug/L		94
63) Tetrachloroethene	9.057	166	56176	11.260	ug/L		99
65) trans-1,3-Dichloropropene	9.084	75	67488	11.008	ug/L		94
68) 1,1,2-Trichloroethane	9.291	83	30123	11.282	ug/L		97
69) Chlorodibromomethane	9.537	129	41723	10.647	ug/L		97
70) 1,3-Dichloropropane	9.657	76	62882	11.112	ug/L		100
71) 1,2-Dibromoethane	9.853	107	34247	11.091	ug/L		97
72) 2-Hexanone	10.131	43	21218	10.558	ug/L		98
73) Chlorobenzene	10.546	112	139357	11.161	ug/L		99
74) Ethylbenzene	10.573	91	246354	11.257	ug/L		99
75) 1,1,1,2-Tetrachloroethane	10.623	131	48716	10.714	ug/L		98
76) p/m Xylene	10.764	106	195565	23.022	ug/L		96
77) o Xylene	11.305	106	181774	22.879	ug/L		97
78) Styrene	11.370	104	298694	22.427	ug/L		100
80) Bromoform	11.403	173	21237	10.085	ug/L		99
82) Isopropylbenzene	11.687	105	237741	10.989	ug/L		99
84) Bromobenzene	12.156	156	53126	10.980	ug/L		99
85) n-Propylbenzene	12.183	91	262902	11.232	ug/L		98
87) 1,1,2,2-Tetrachloroethane	12.270	83	35531	10.816	ug/L		98
88) 4-Ethyltoluene	12.314	105	216303	11.300	ug/L		100
89) 2-Chlorotoluene	12.374	91	173235	11.148	ug/L		93
90) 1,3,5-Trimethylbenzene	12.412	105	187675	11.204	ug/L		100
91) 1,2,3-Trichloropropane	12.429	75	32653M1	10.555	ug/L		
92) trans-1,4-Dichloro-2-b...	12.472	53	11343	11.319	ug/L	#	15
93) 4-Chlorotoluene	12.565	91	167529	11.283	ug/L		96
94) tert-Butylbenzene	12.783	119	157389	11.109	ug/L		97

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A02.D
Acq On : 7 Mar 2020 9:55 am
Operator : VOA101:MKS
Sample : WG1348564-4,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 11:18:58 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA101\2020\200307A\V01200307A01.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	1,2,4-Trimethylbenzene	12.865	105	185451	11.233	ug/L	99
98)	sec-Butylbenzene	12.985	105	197049	11.165	ug/L	98
99)	p-Isopropyltoluene	13.143	119	182951	11.203	ug/L	97
100)	1,3-Dichlorobenzene	13.242	146	101356	11.246	ug/L	99
101)	1,4-Dichlorobenzene	13.340	146	102807	11.258	ug/L	99
102)	p-Diethylbenzene	13.553	119	98475	11.252	ug/L	98
103)	n-Butylbenzene	13.618	91	139556	11.527	ug/L	99
104)	1,2-Dichlorobenzene	13.809	146	89028	11.221	ug/L	99
105)	1,2,4,5-Tetramethylben...	14.426	119	143342	10.869	ug/L	96
106)	1,2-Dibromo-3-chloropr...	14.666	155	4235	10.180	ug/L	98
108)	Hexachlorobutadiene	15.337	225	13688	11.008	ug/L	97
109)	1,2,4-Trichlorobenzene	15.375	180	39059	10.446	ug/L	97
110)	Naphthalene	15.741	128	81366	9.816	ug/L	100
111)	1,2,3-Trichlorobenzene	15.953	180	28826	10.021	ug/L	97

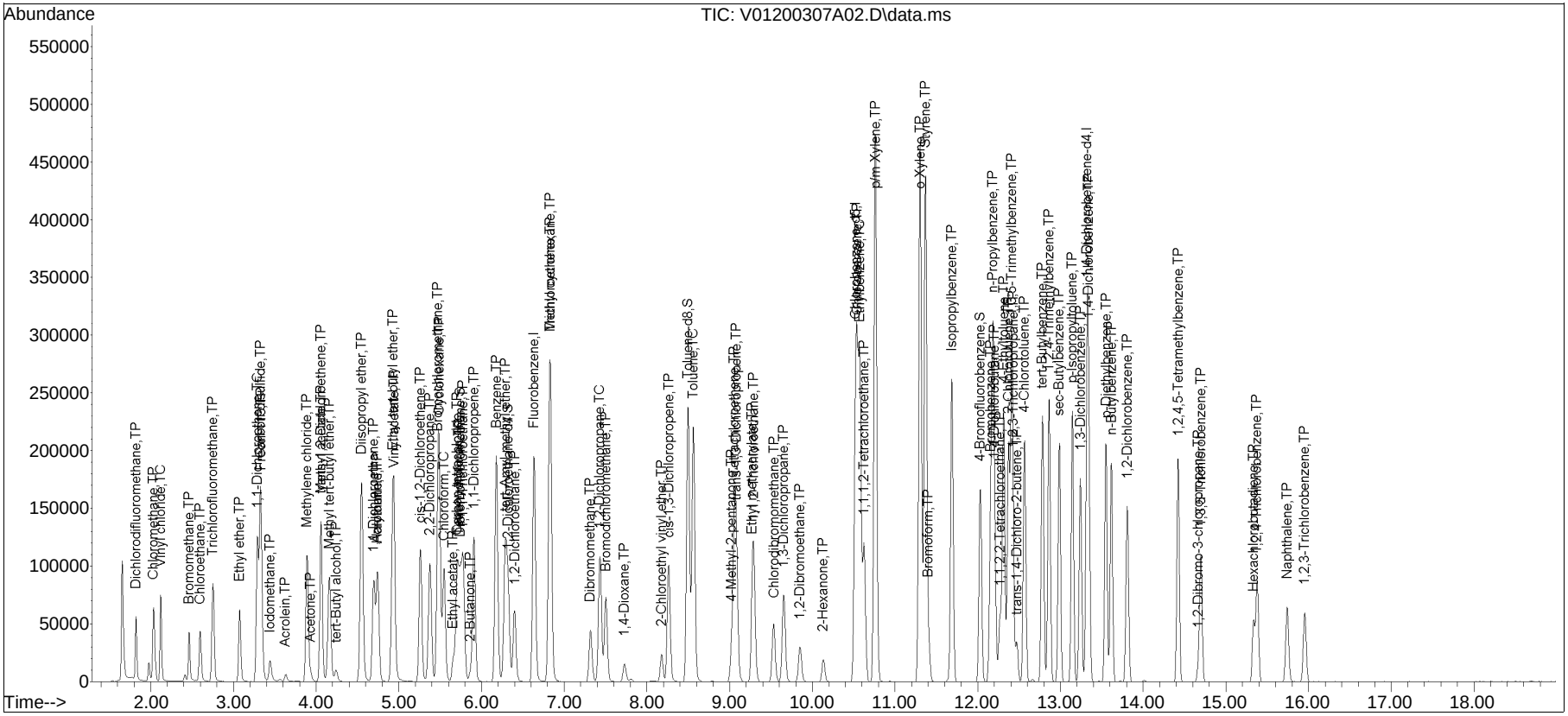
(#) = qualifier out of range (m) = manual integration (+) = signals summed

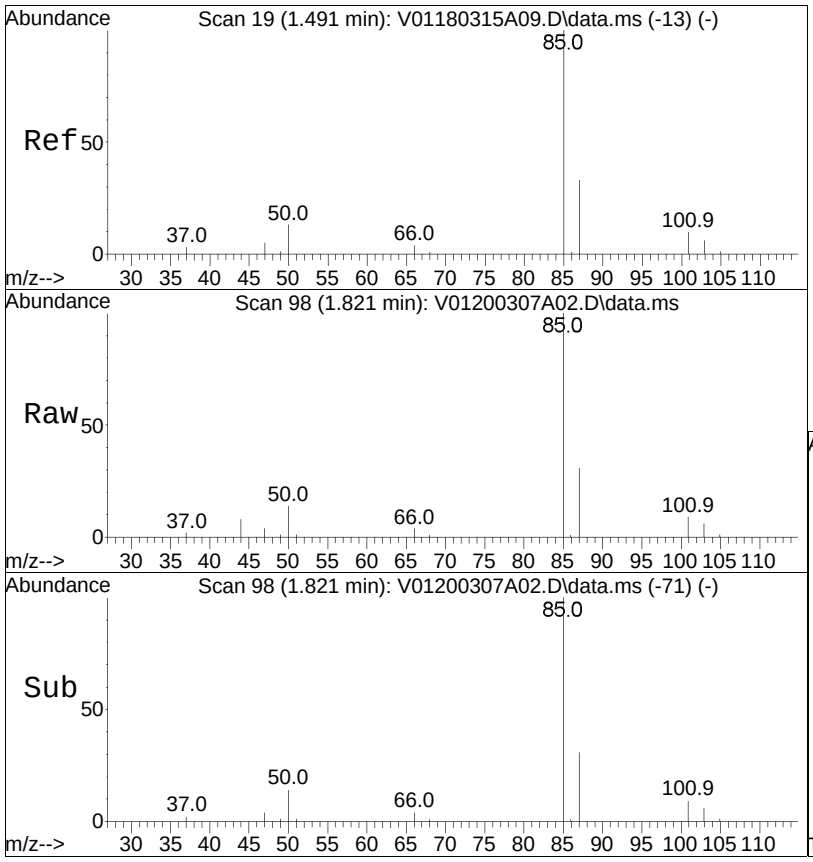
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2020\200307A\
Data File : V01200307A02.D
Acq On : 7 Mar 2020 9:55 am
Operator : VOA101:MKS
Sample : WG1348564-4,31,10,10
Misc : WG1348564,ICAL16539
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 11:18:58 2020
Quant Method : I:\VOLATILES\VOA101\2020\200307A\V101_200219A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Feb 20 09:49:21 2020
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox00307A\V01200307A01.D•

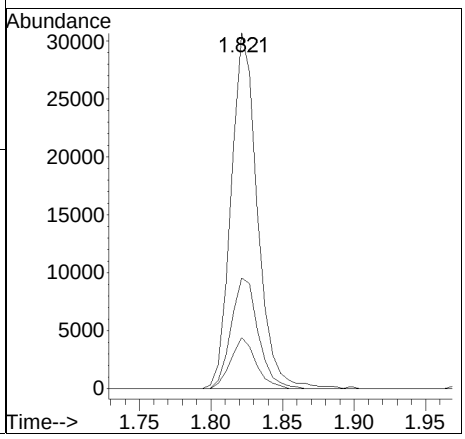


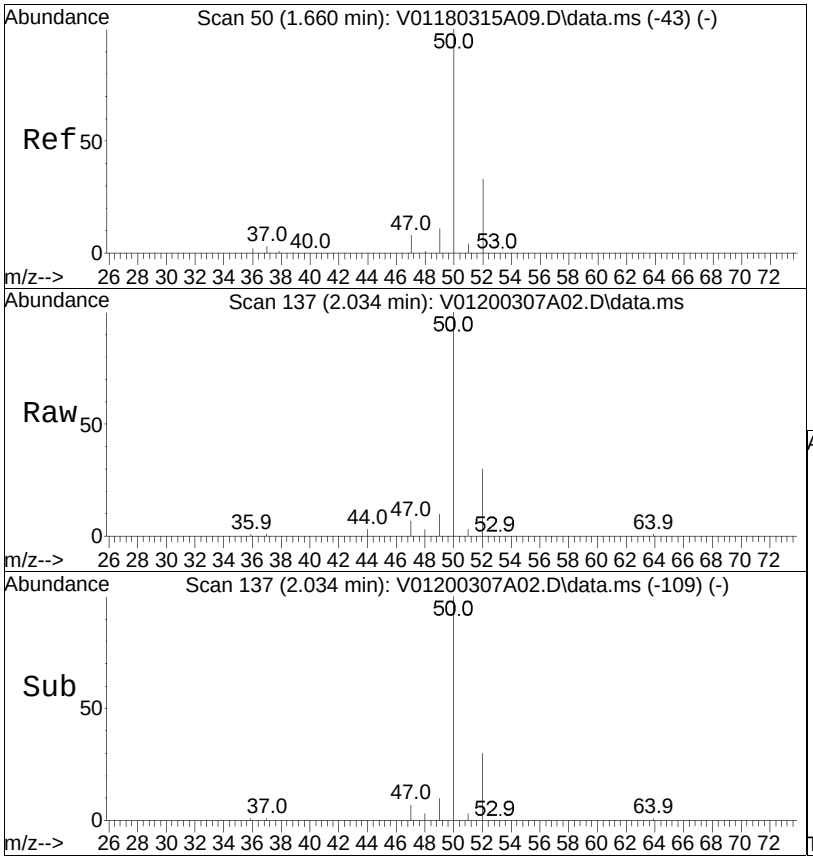


#2
Dichlorodifluoromethane
Concen: 9.72 ug/L
RT: 1.821 min Scan# 98
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 85 Resp: 39162

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.9	43.5
50	13.7	9.1	18.9

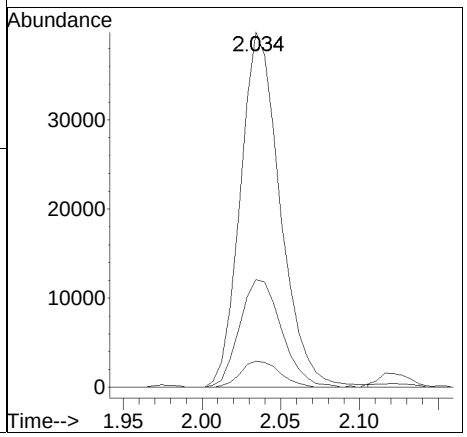


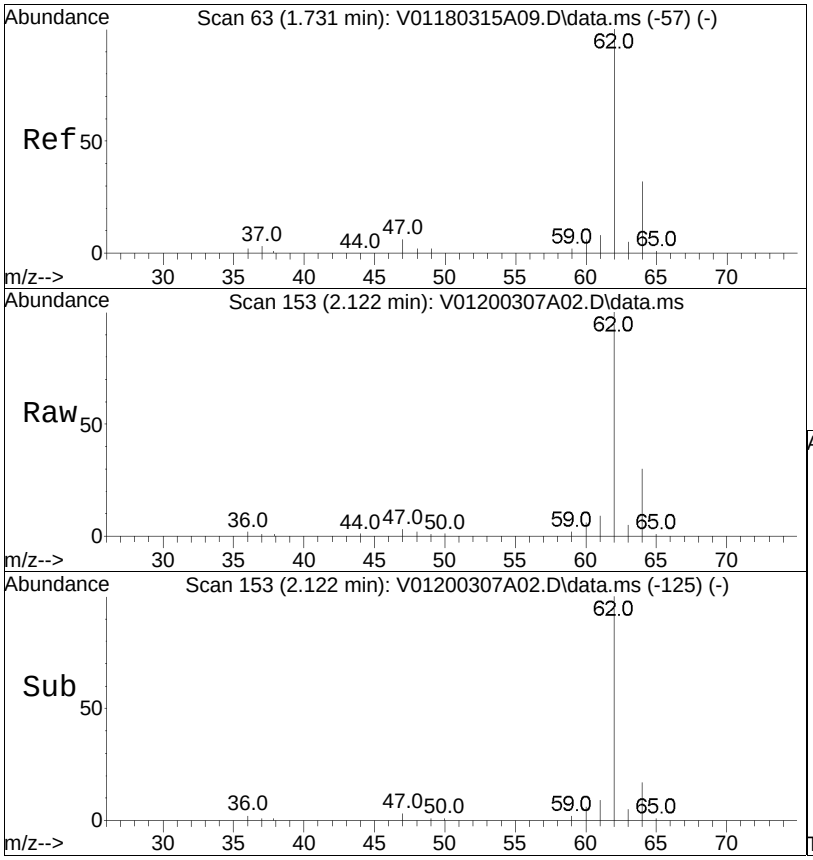


#3
Chloromethane
Concen: 11.51 ug/L
RT: 2.034 min Scan# 137
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 50 Resp: 70223

Ion	Ratio	Lower	Upper
50	100		
52	32.1	12.8	52.8
47	7.4	0.0	28.3

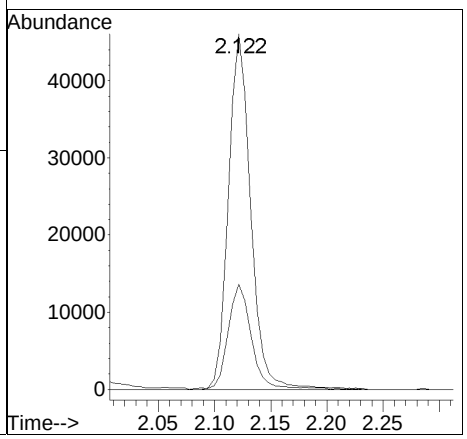


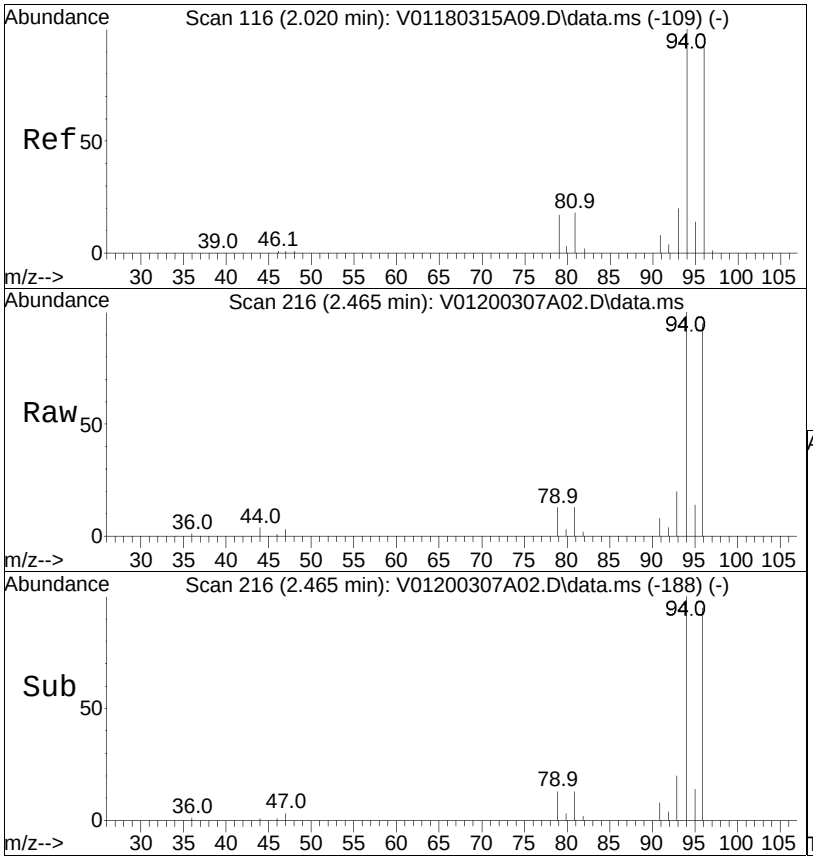


#4
Vinyl chloride
Concen: 11.15 ug/L
RT: 2.122 min Scan# 153
Delta R.T. 0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 62 Resp: 63567

Ion	Ratio	Lower	Upper
62	100		
64	30.9	10.8	50.8

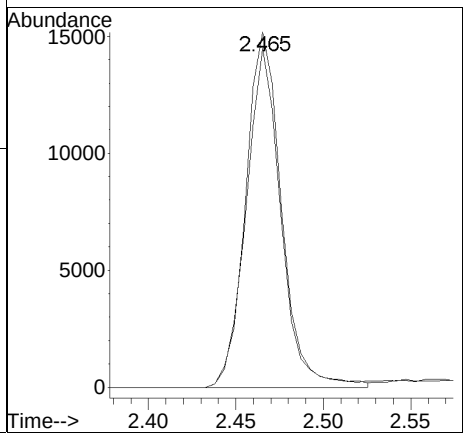


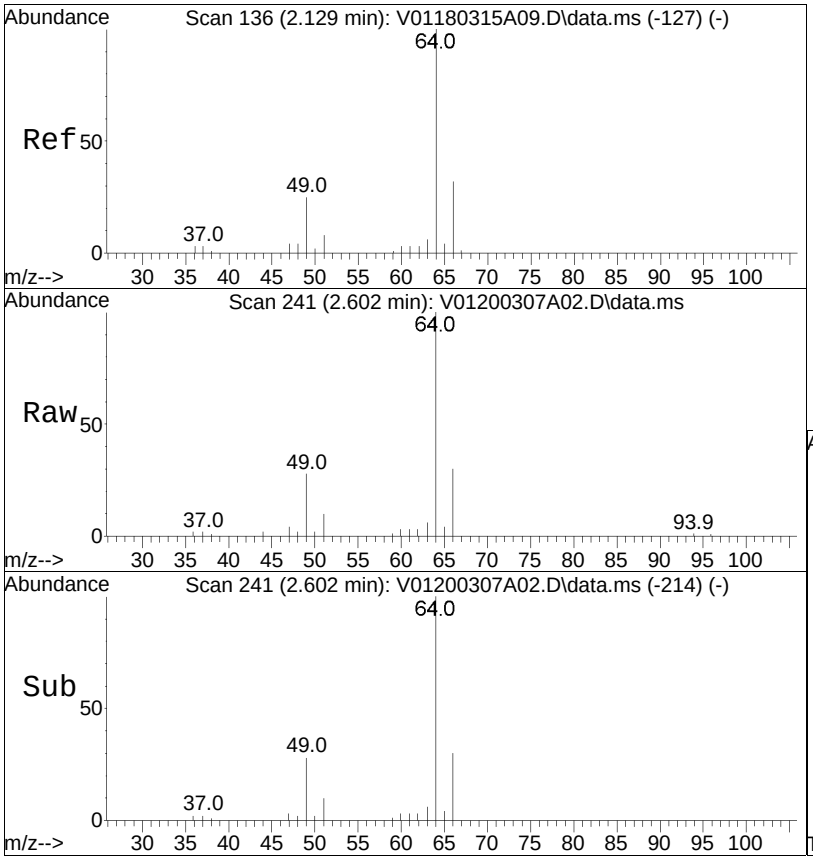


#5
Bromomethane
Concen: 9.36 ug/L
RT: 2.465 min Scan# 216
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 94 Resp: 21683

Ion	Ratio	Lower	Upper
94	100		
96	92.2	73.6	113.6

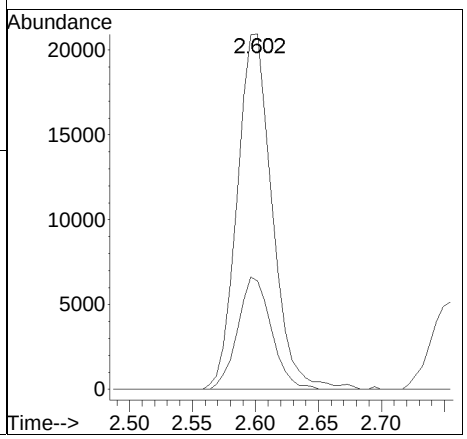


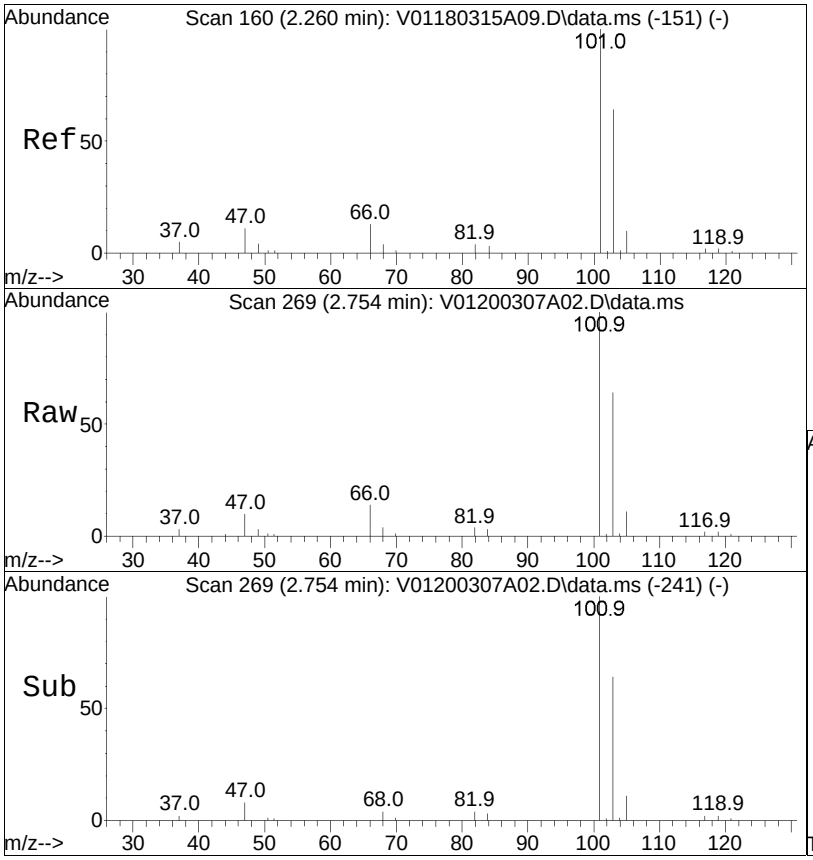


#6
Chloroethane
Concen: 12.25 ug/L
RT: 2.602 min Scan# 241
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 64 Resp: 40525

Ion	Ratio	Lower	Upper
64	100		
66	30.4	12.7	52.7

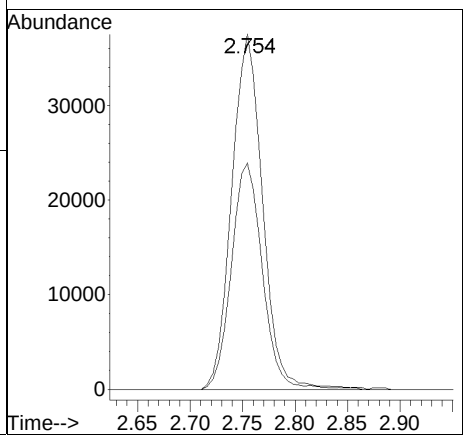


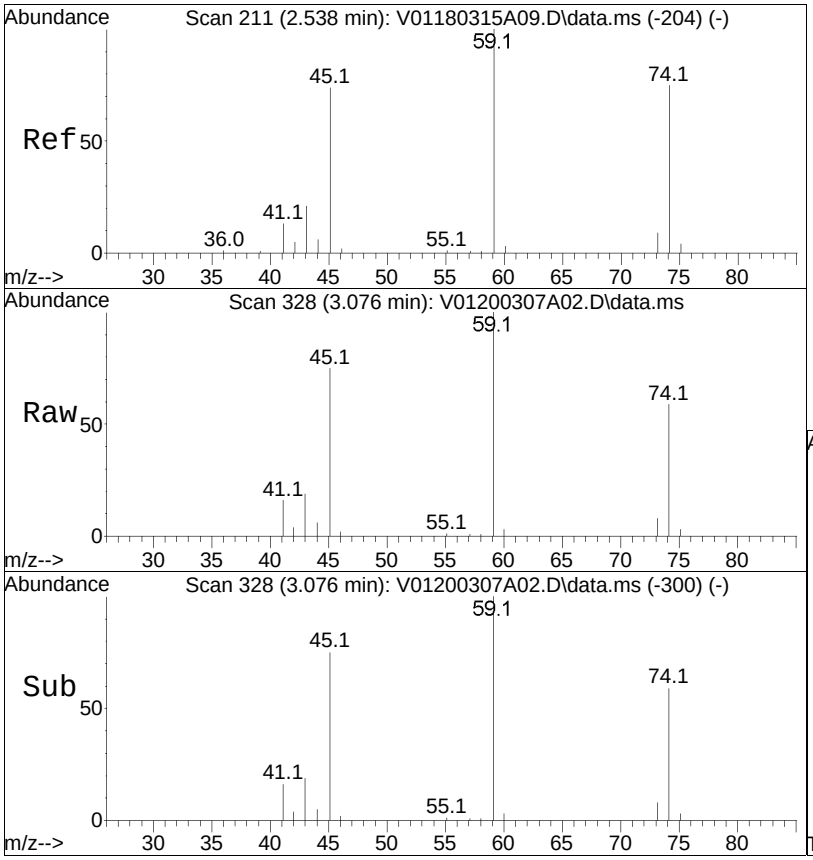


#7
Trichlorofluoromethane
Concen: 11.54 ug/L
RT: 2.754 min Scan# 269
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:101 Resp: 76736

Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.3	78.5

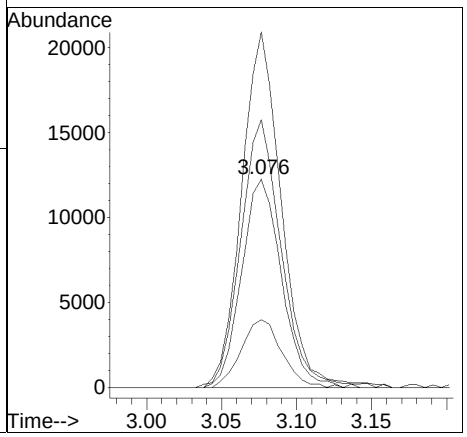


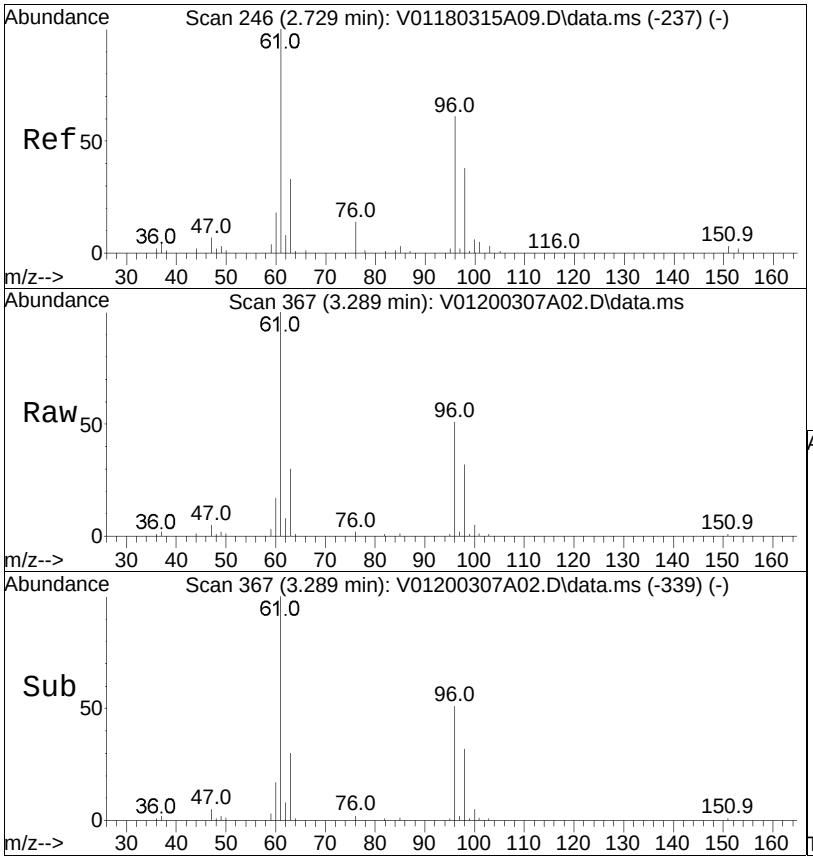


#8
Ethyl ether
Concen: 12.00 ug/L
RT: 3.076 min Scan# 328
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 74 Resp: 22782

Ion	Ratio	Lower	Upper
74	100		
59	169.3	88.1	182.9
45	130.0	66.1	137.3
43	33.1	19.7	40.9

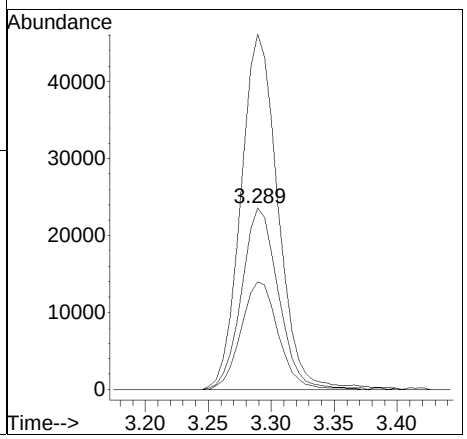


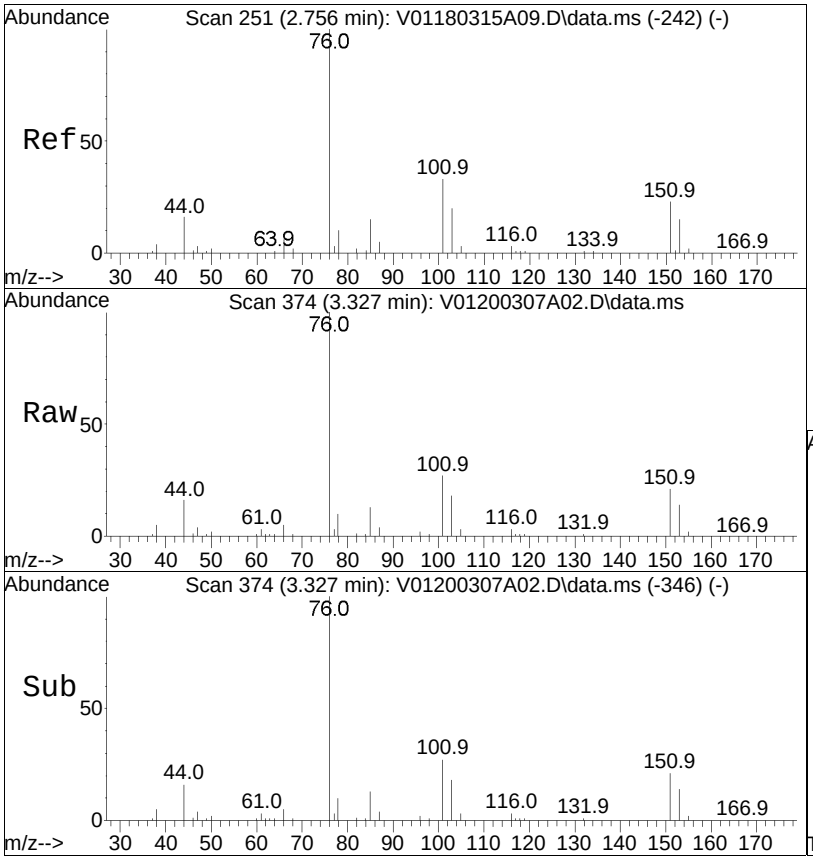


#10
1,1-Dichloroethene
Concen: 11.81 ug/L
RT: 3.289 min Scan# 367
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 96 Resp: 48012

Ion	Ratio	Lower	Upper
96	100		
61	197.4	136.8	205.2
63	60.0	43.6	65.4

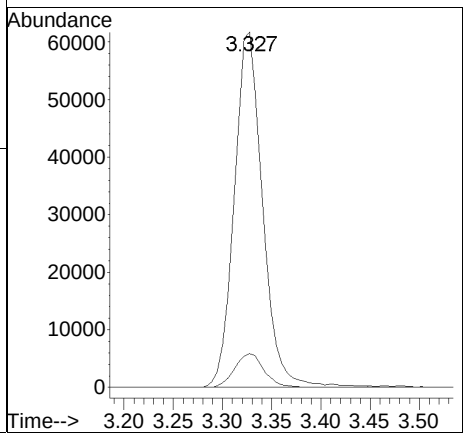


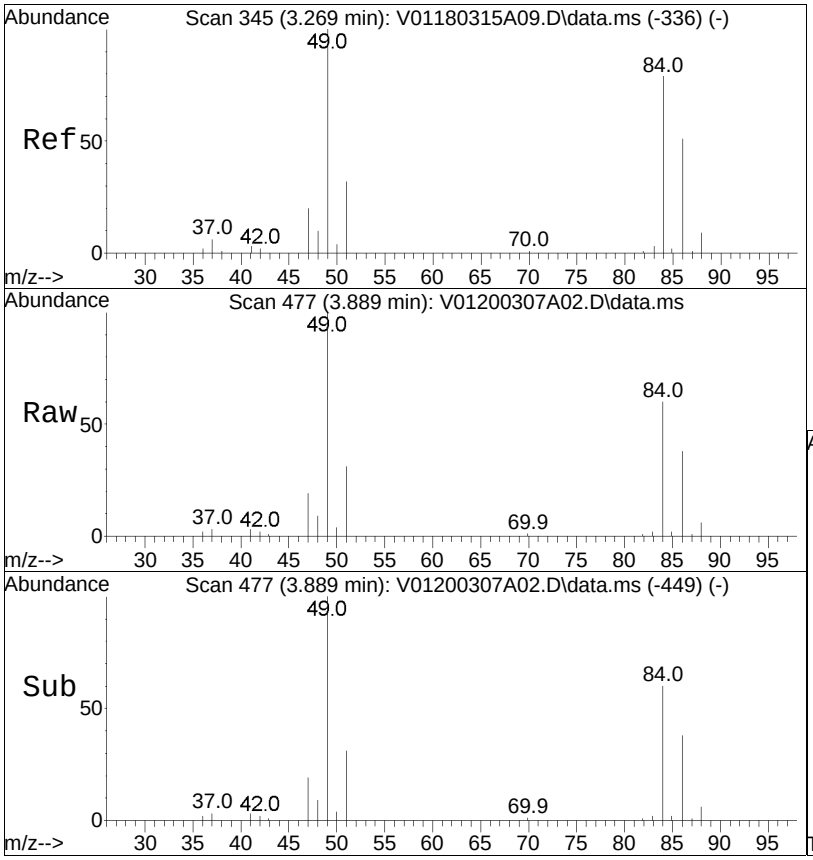


#11
Carbon disulfide
Concen: 11.25 ug/L
RT: 3.327 min Scan# 374
Delta R.T. 0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 76 Resp: 123929

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.6	13.8

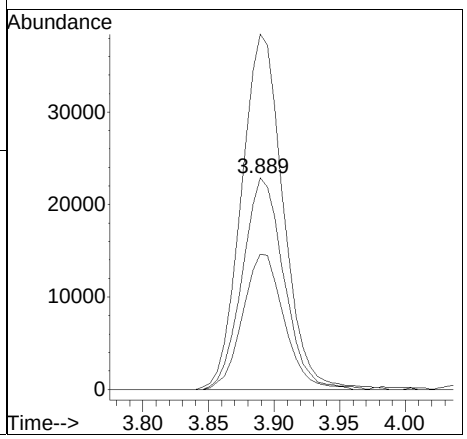


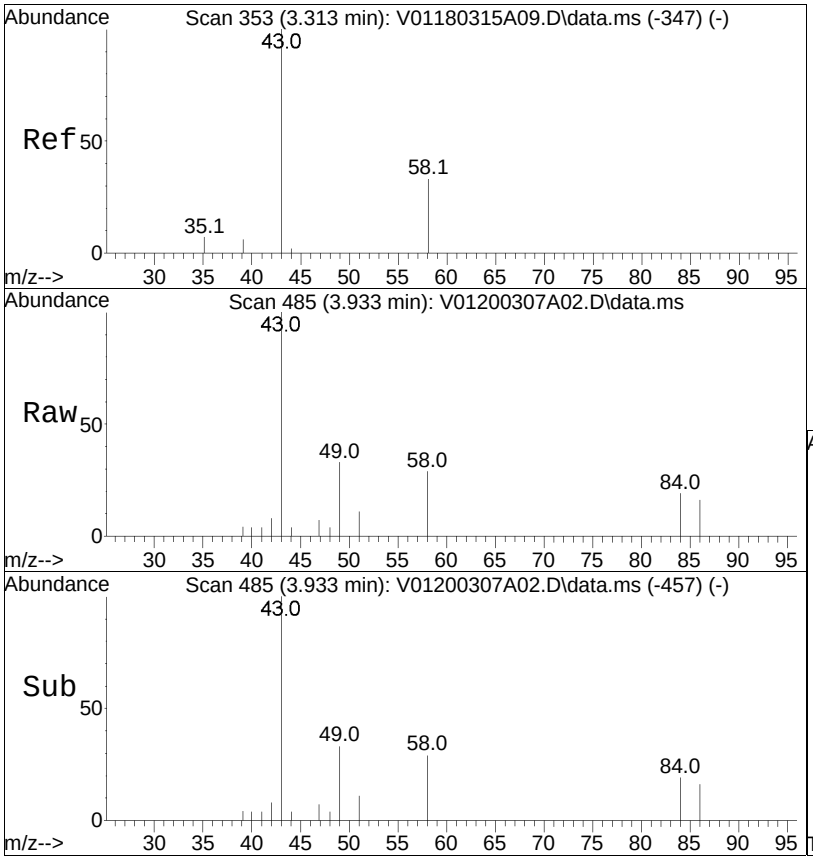


#15
Methylene chloride
Concen: 11.86 ug/L
RT: 3.889 min Scan# 477
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 84 Resp: 50354

Ion	Ratio	Lower	Upper
84	100		
86	63.8	41.7	86.7
49	170.3	89.1	185.1

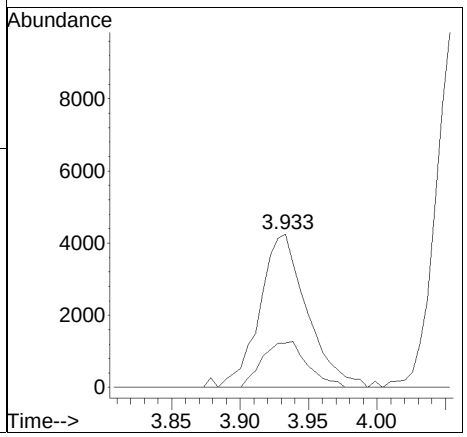


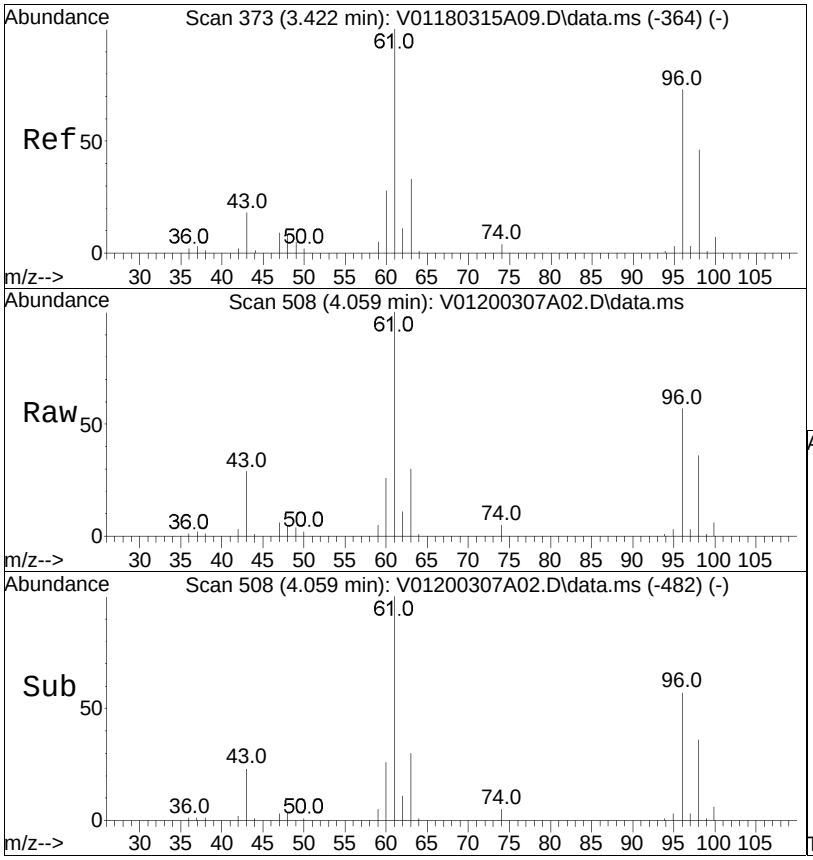


#17
Acetone
Concen: 12.27 ug/L
RT: 3.933 min Scan# 485
Delta R.T. 0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 43 Resp: 10273

Ion	Ratio	Lower	Upper
43	100		
58	28.3	25.9	38.9

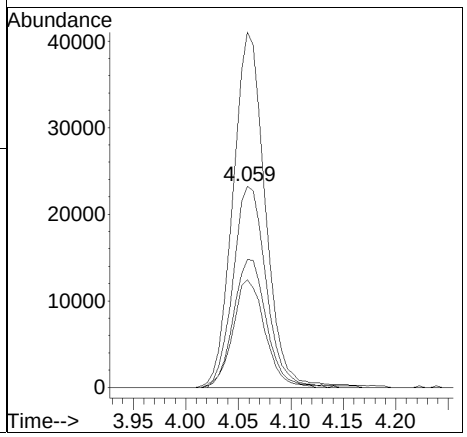


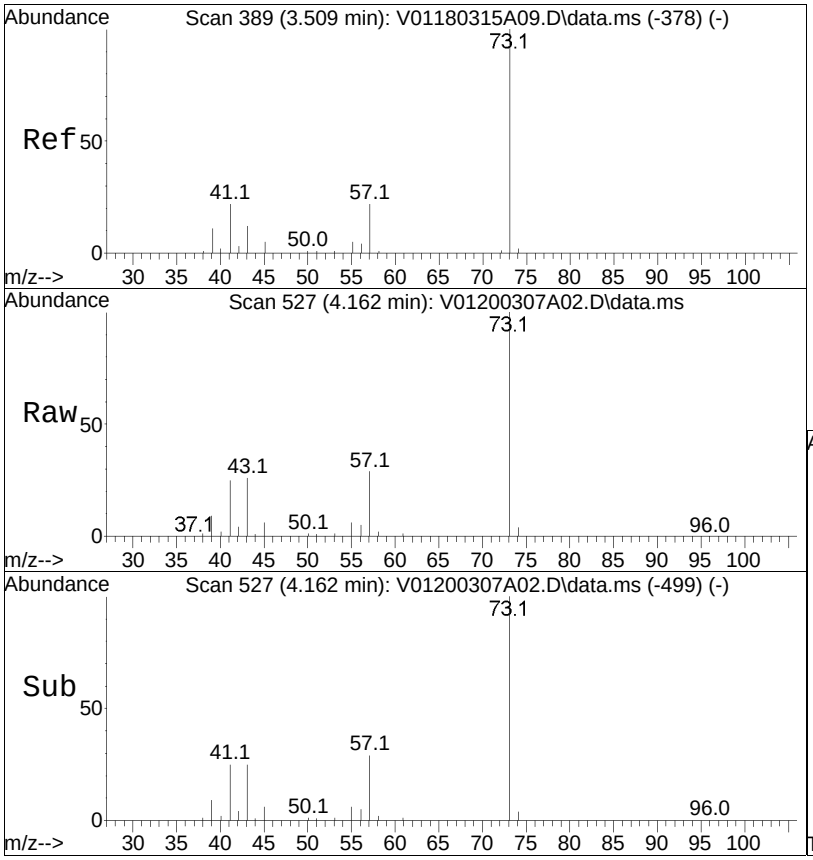


#18
trans-1,2-Dichloroethene
Concen: 11.77 ug/L
RT: 4.059 min Scan# 508
Delta R.T. -0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 96 Resp: 50935

Ion	Ratio	Lower	Upper
96	100		
61	172.5	95.3	197.9
98	63.5	41.0	85.2
63	51.7	30.2	62.6

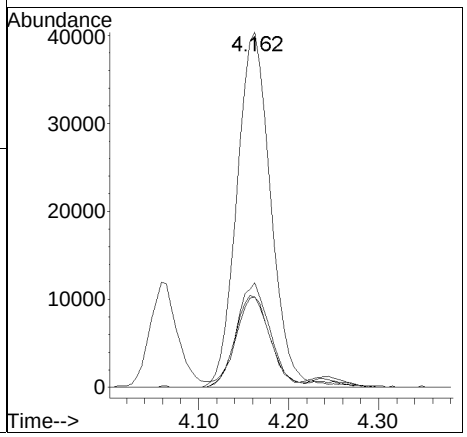


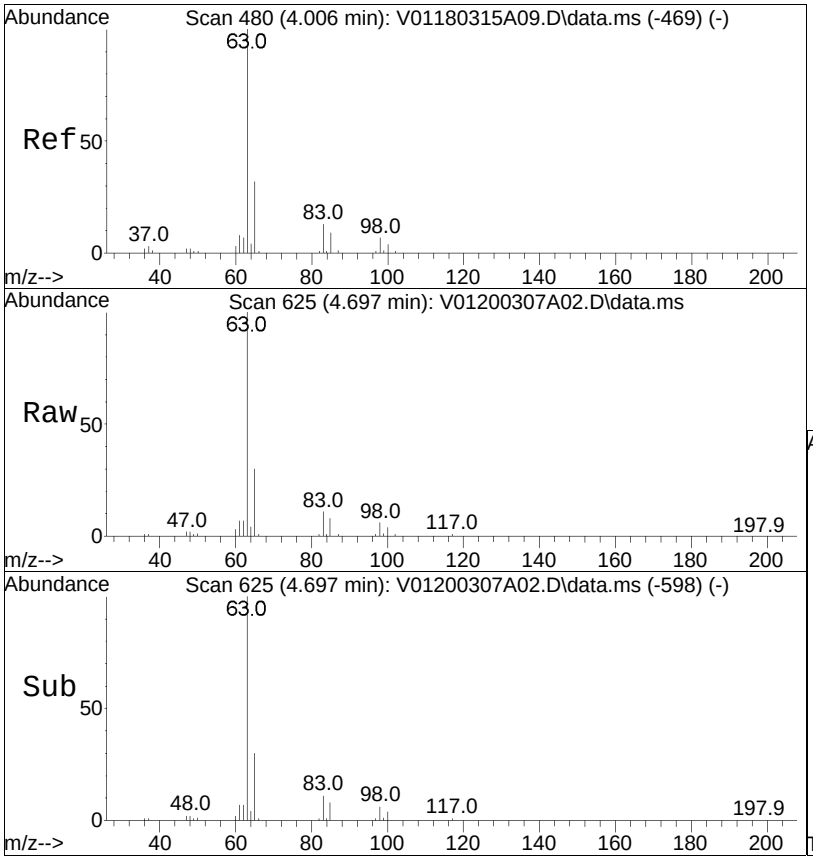


#20
Methyl tert-butyl ether
Concen: 11.52 ug/L
RT: 4.162 min Scan# 527
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 73 Resp: 106097

Ion	Ratio	Lower	Upper
73	100		
57	29.0	14.8	30.6
43	25.4	15.5	32.3
41	26.4	14.1	29.3

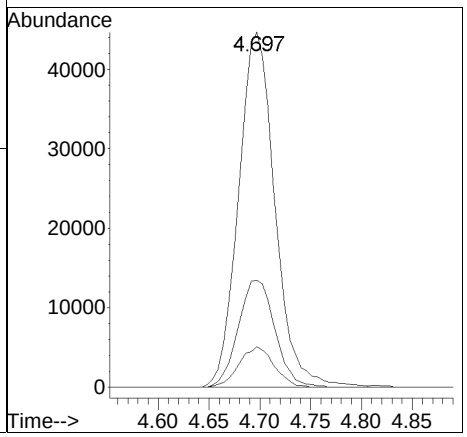


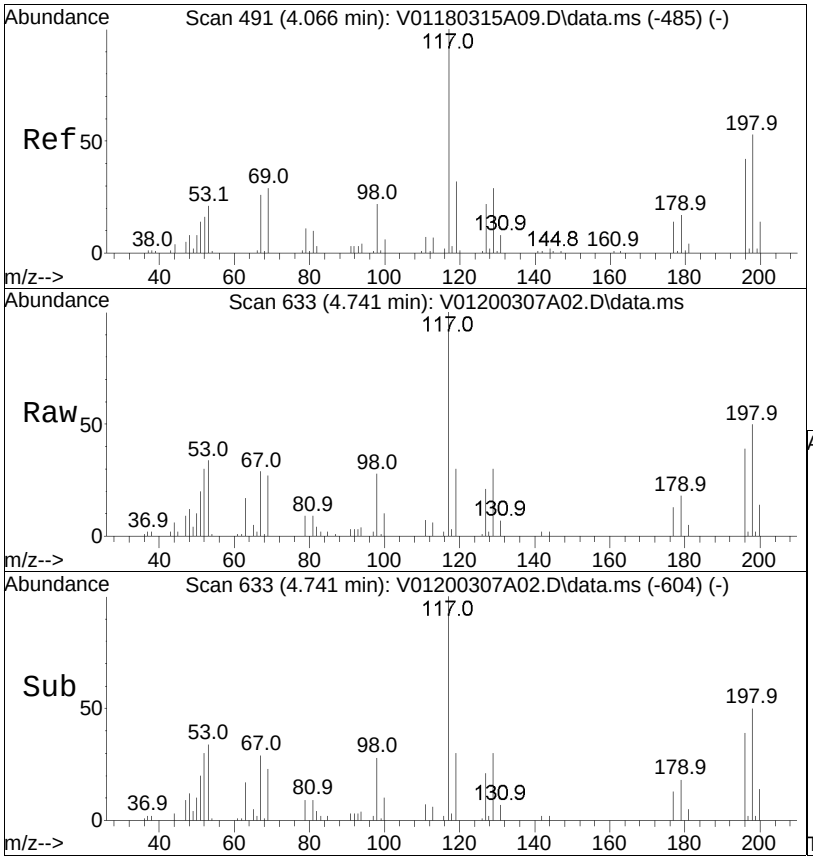


#23
1,1-Dichloroethane
Concen: 11.99 ug/L
RT: 4.697 min Scan# 625
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 63 Resp: 111430

Ion	Ratio	Lower	Upper
63	100		
65	30.5	10.9	50.9
83	11.1	0.0	33.0

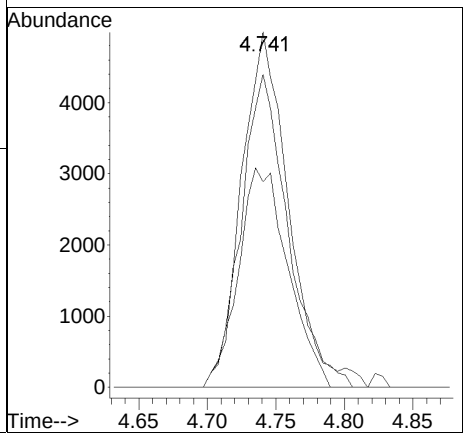


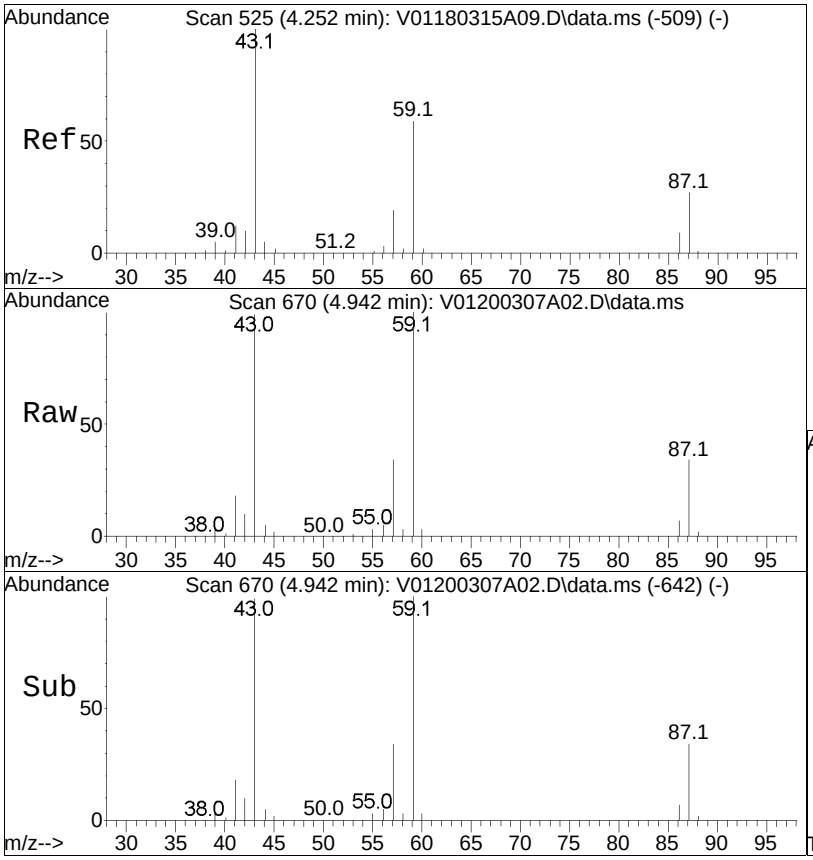


#25
Acrylonitrile
Concen: 12.81 ug/L
RT: 4.741 min Scan# 633
Delta R.T. 0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 53 Resp: 12010

Ion	Ratio	Lower	Upper
53	100		
52	86.7	69.1	103.7
51	65.1	58.3	87.5

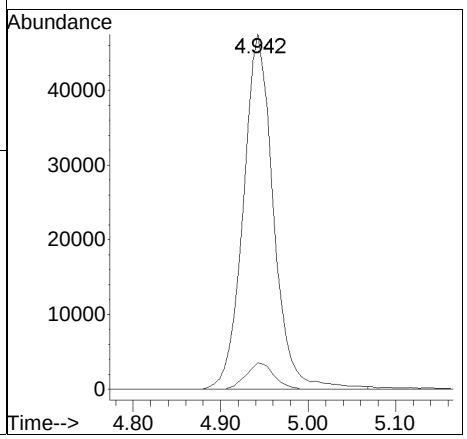


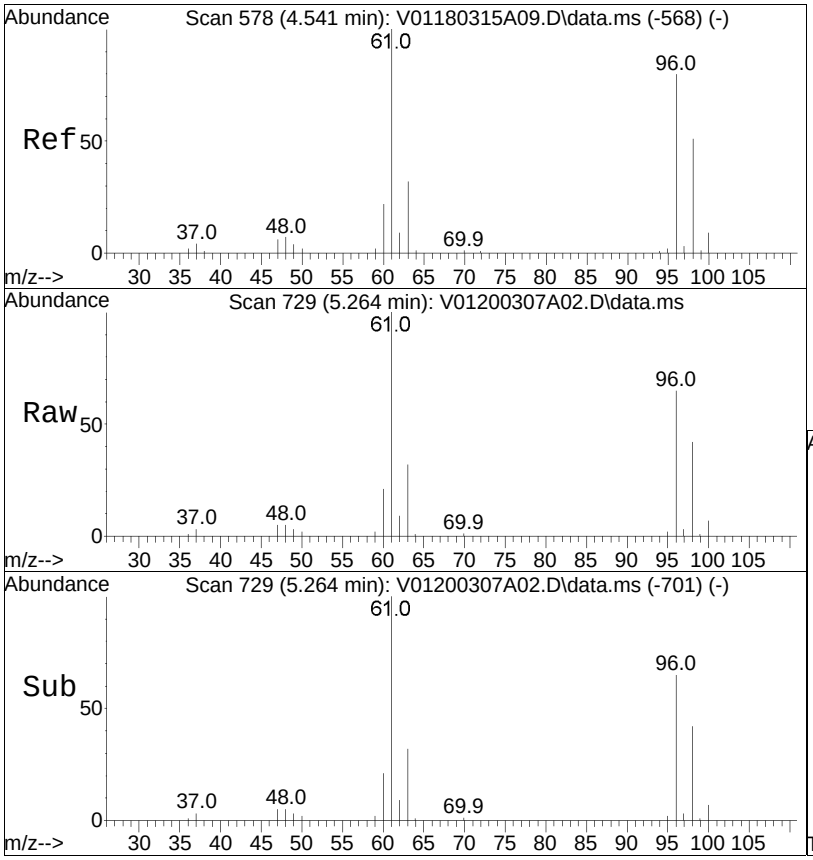


#27
Vinyl acetate
Concen: 12.20 ug/L
RT: 4.942 min Scan# 670
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 43 Resp: 114428

Ion	Ratio	Lower	Upper
43	100		
86	6.9	6.6	9.8

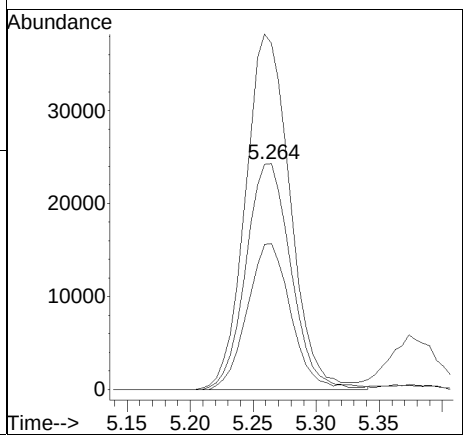


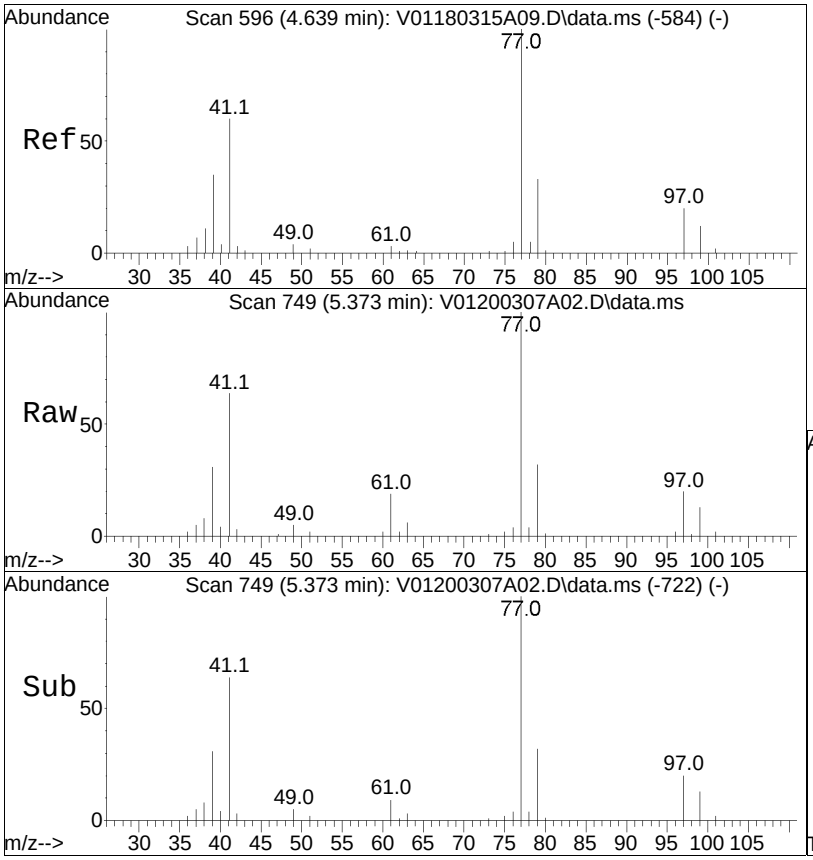


#28
cis-1,2-Dichloroethene
Concen: 11.77 ug/L
RT: 5.264 min Scan# 729
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 96 Resp: 60500

Ion	Ratio	Lower	Upper
96	100		
61	155.4	105.8	158.6
98	62.1	51.1	76.7

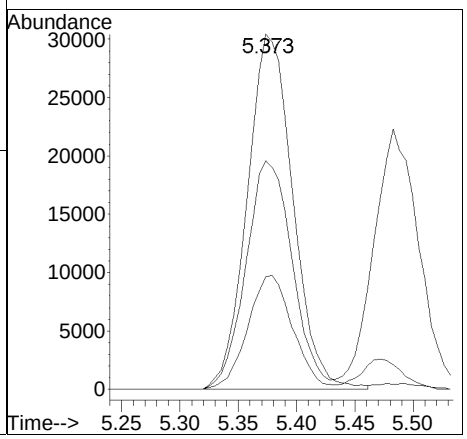


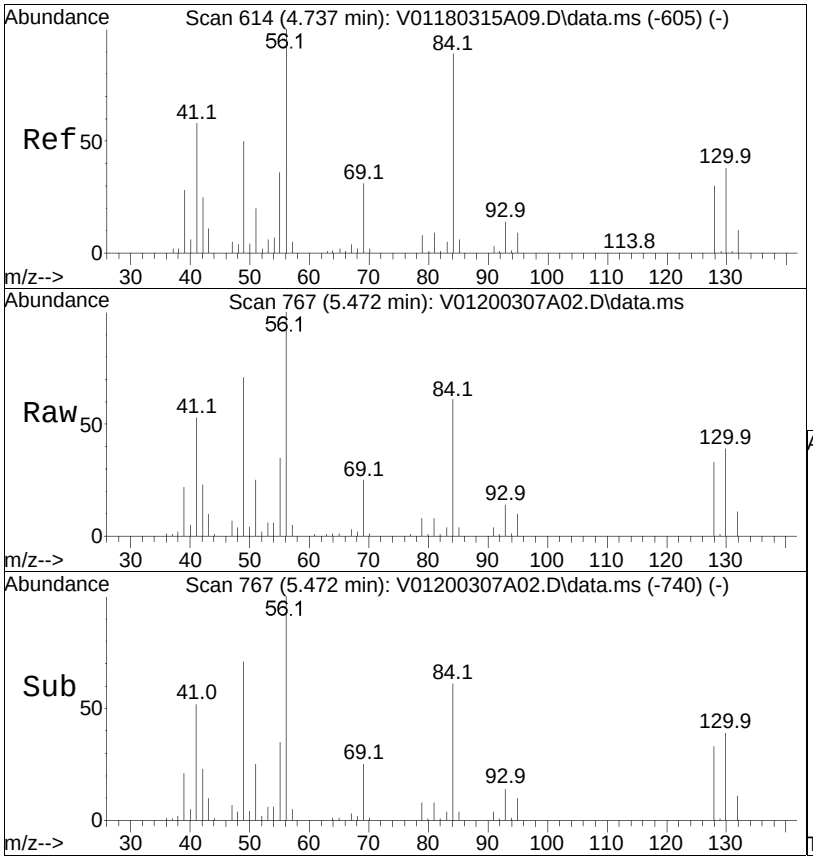


#29
2,2-Dichloropropane
Concen: 12.84 ug/L
RT: 5.373 min Scan# 749
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 77 Resp: 82966

Ion	Ratio	Lower	Upper
77	100		
41	65.2	39.6	82.3
79	31.8	20.9	43.3

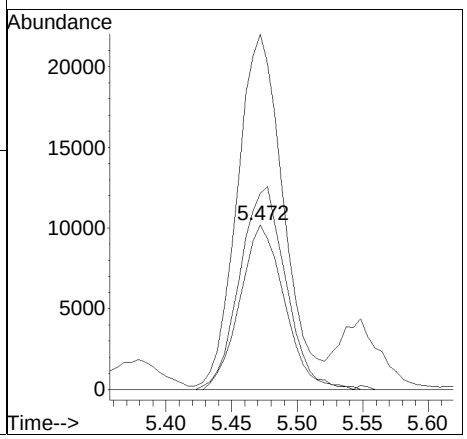


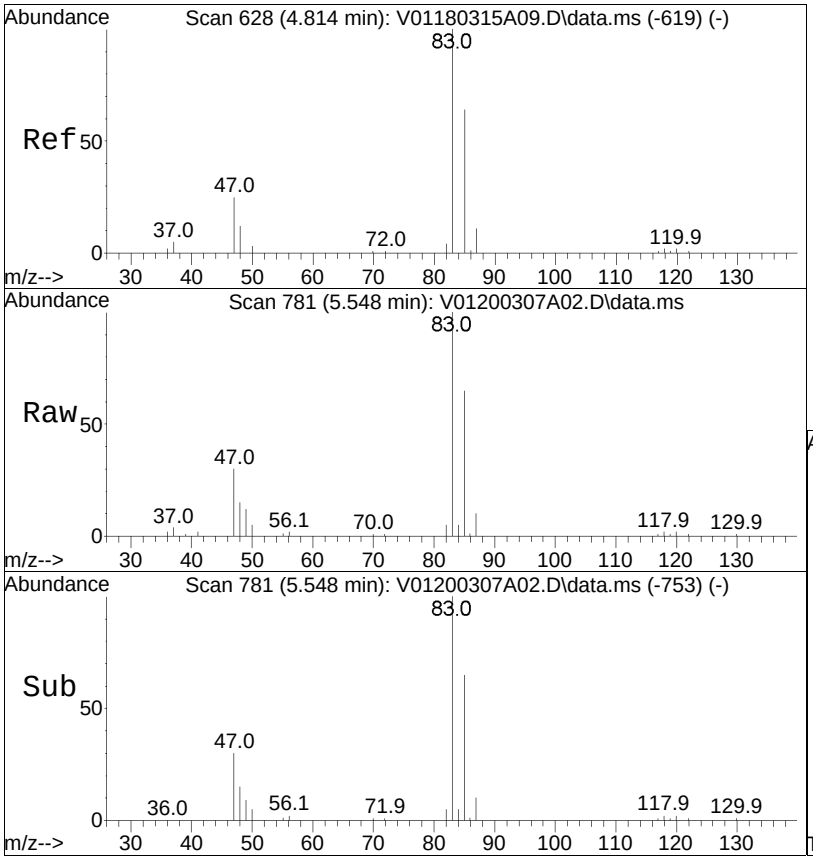


#30
Bromochloromethane
Concen: 12.23 ug/L
RT: 5.472 min Scan# 767
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:128 Resp: 24080

Ion	Ratio	Lower	Upper
128	100		
49	220.1	140.4	210.6#
130	126.8	103.1	154.7

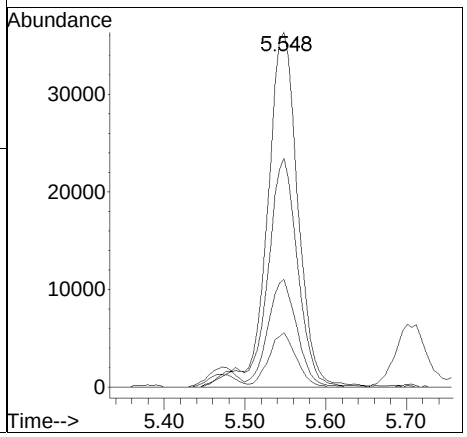


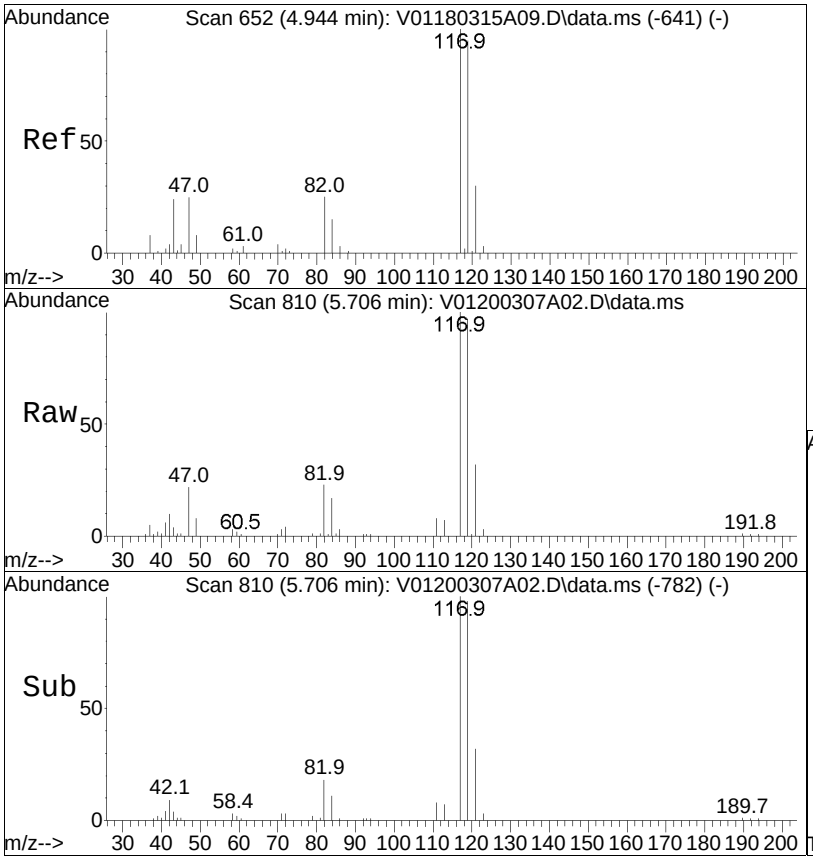


#32
Chloroform
Concen: 11.87 ug/L
RT: 5.548 min Scan# 781
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 83 Resp: 95978

Ion	Ratio	Lower	Upper
83	100		
85	61.7	42.3	87.8
47	29.1	17.8	37.0
48	13.9	9.3	19.3

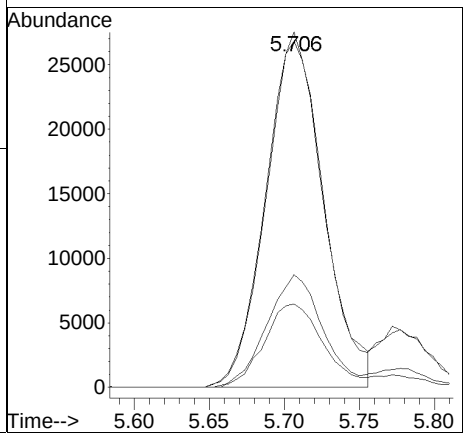


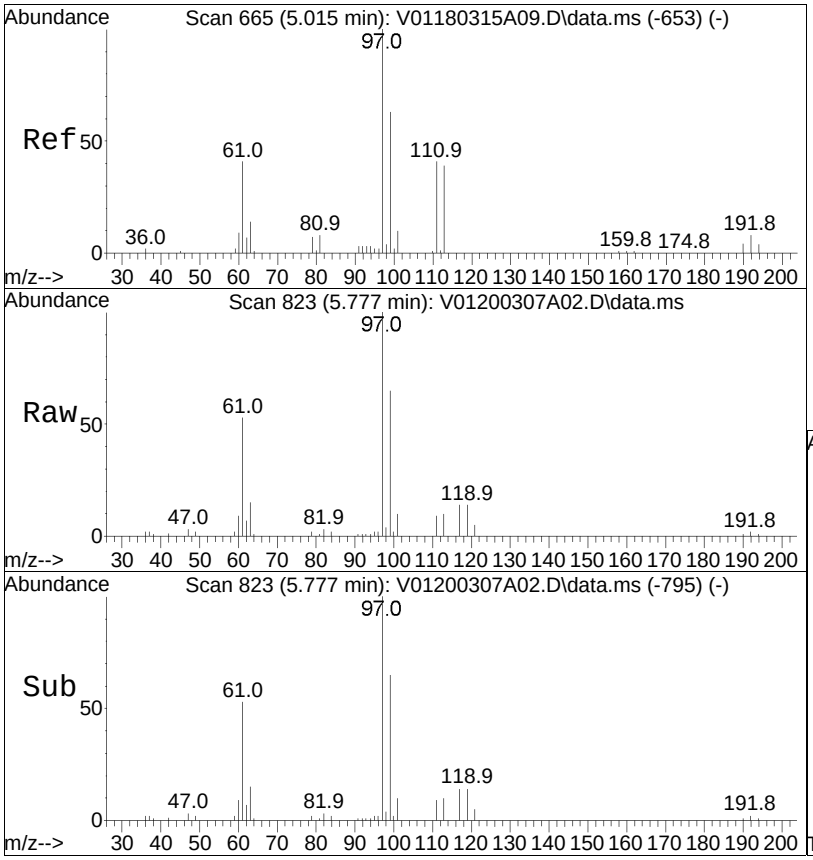


#34
Carbon tetrachloride
Concen: 11.26 ug/L
RT: 5.706 min Scan# 810
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:117 Resp: 73417

Ion	Ratio	Lower	Upper
117	100		
119	98.8	62.1	128.9
121	30.6	19.8	41.0
82	24.3	17.1	35.5

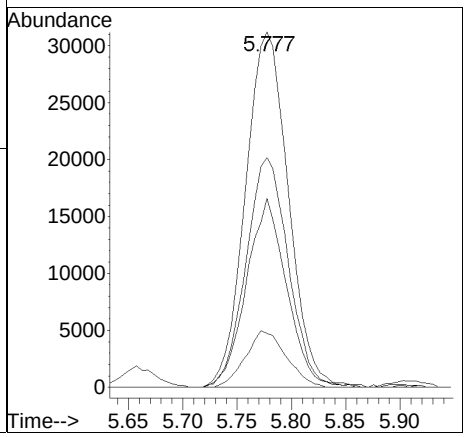


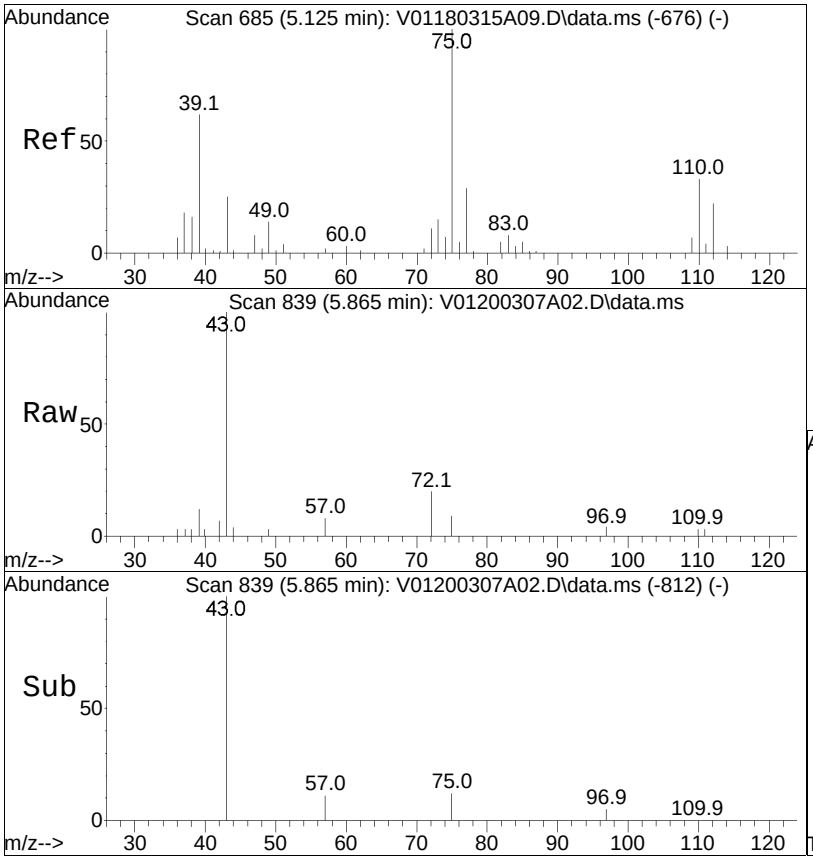


#37
1,1,1-Trichloroethane
Concen: 11.36 ug/L
RT: 5.777 min Scan# 823
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 97 Resp: 85869

Ion	Ratio	Lower	Upper
97	100		
99	63.8	41.7	86.7
61	50.0	29.4	61.2
63	15.2	9.4	19.4

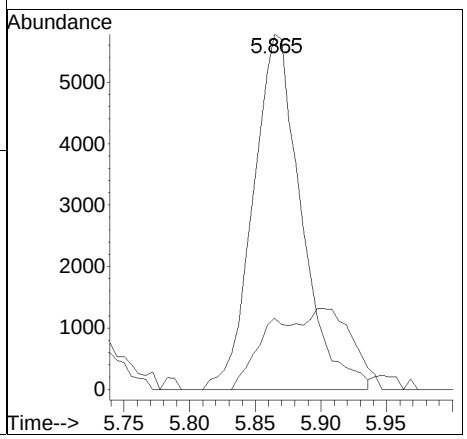


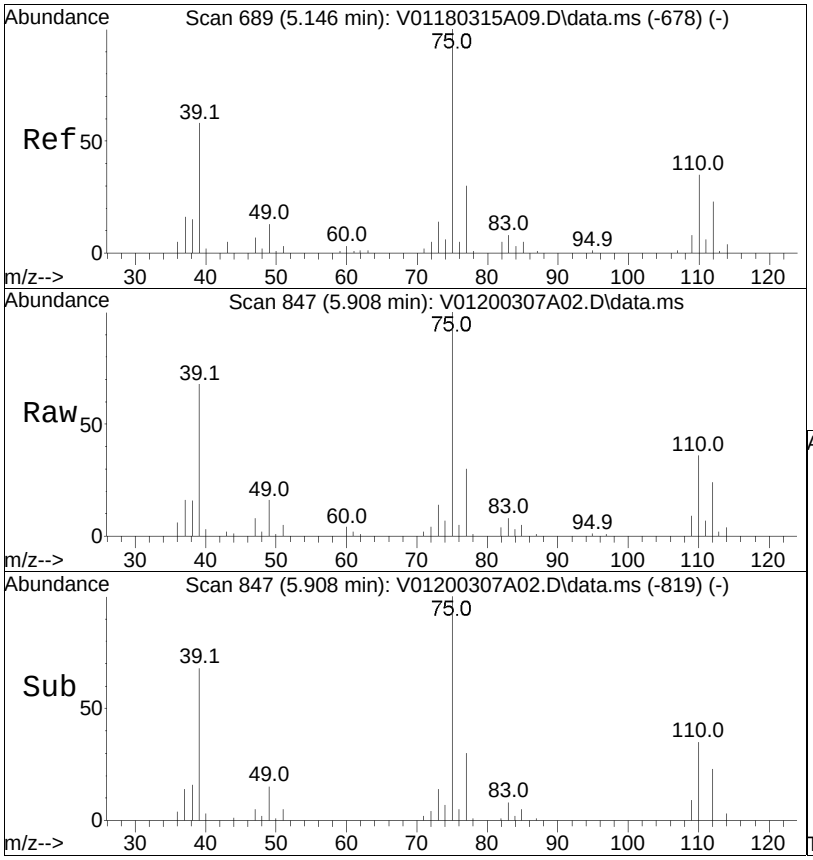


#39
2-Butanone
Concen: 11.91 ug/L
RT: 5.865 min Scan# 839
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 43 Resp: 14702

Ion	Ratio	Lower	Upper
43	100		
72	13.7	45.8	68.6#

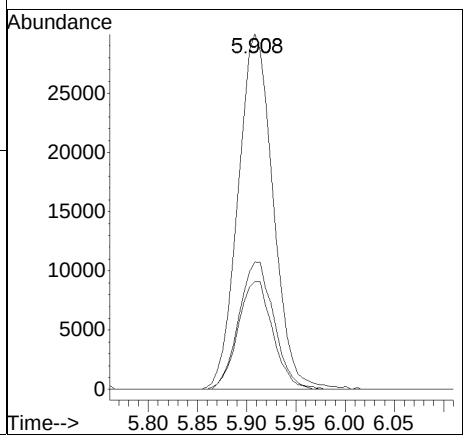


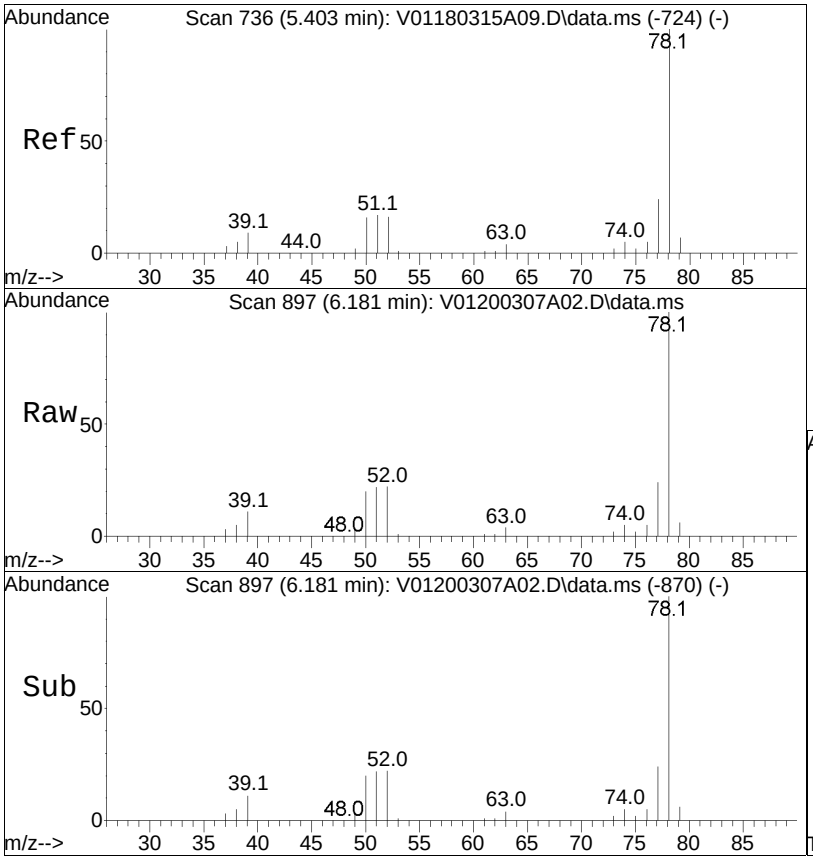


#40
1,1-Dichloropropene
Concen: 11.51 ug/L
RT: 5.908 min Scan# 847
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 75 Resp: 74488

Ion	Ratio	Lower	Upper
75	100		
110	35.8	22.2	46.2
77	30.1	20.2	42.0

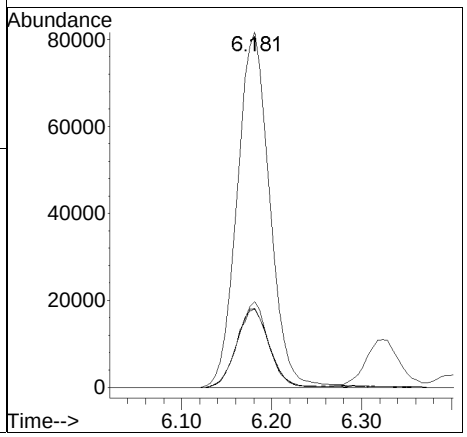


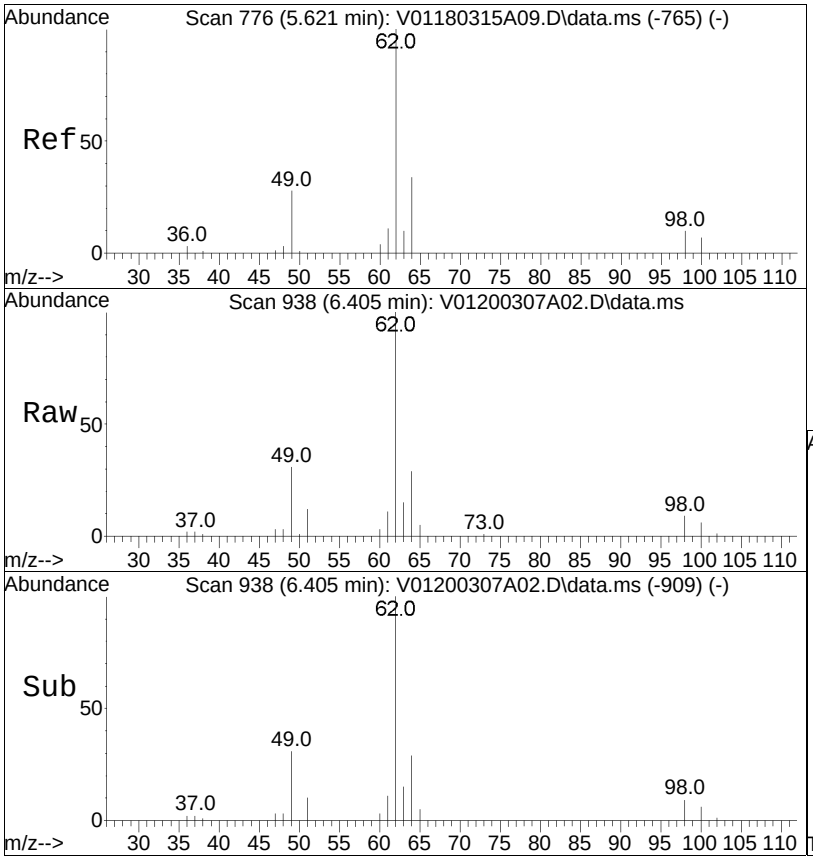


#41
Benzene
Concen: 11.47 ug/L
RT: 6.181 min Scan# 897
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 78 Resp: 205112

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.7	32.5
51	22.2	11.6	24.2
52	22.1	10.9	22.5

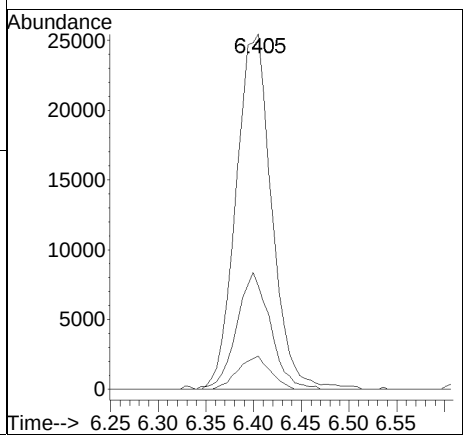


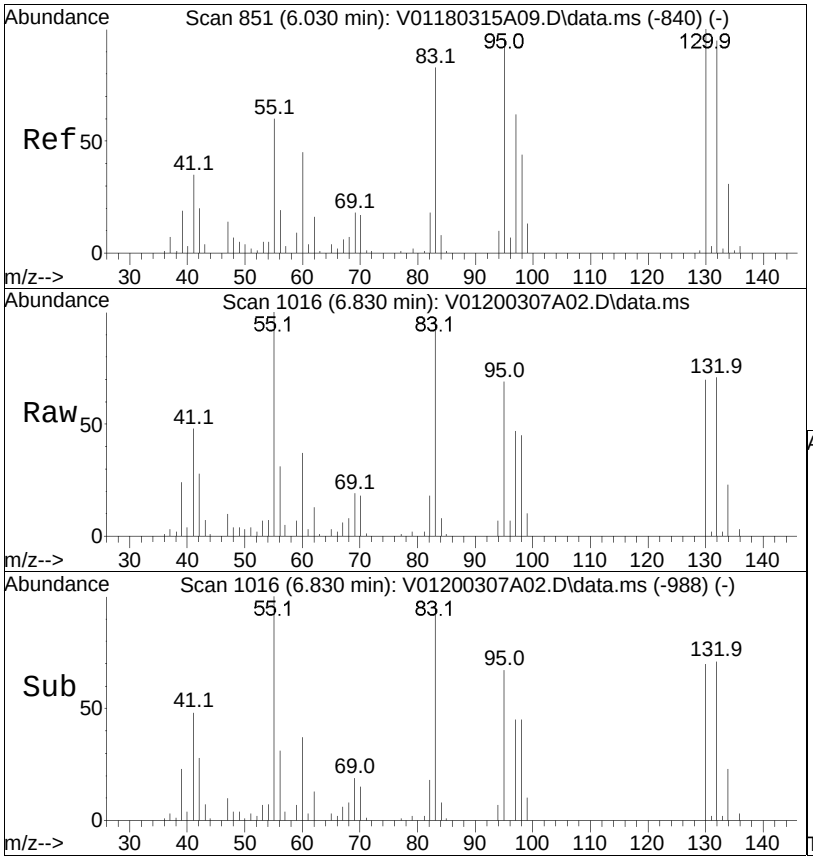


#44
1,2-Dichloroethane
Concen: 11.82 ug/L
RT: 6.405 min Scan# 938
Delta R.T. 0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 62 Resp: 66320

Ion	Ratio	Lower	Upper
62	100		
64	31.2	12.1	52.1
98	8.5	0.0	28.8

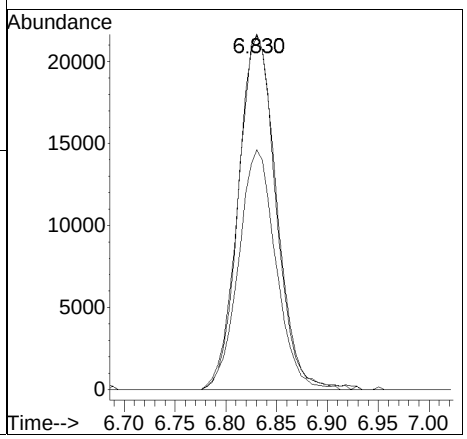


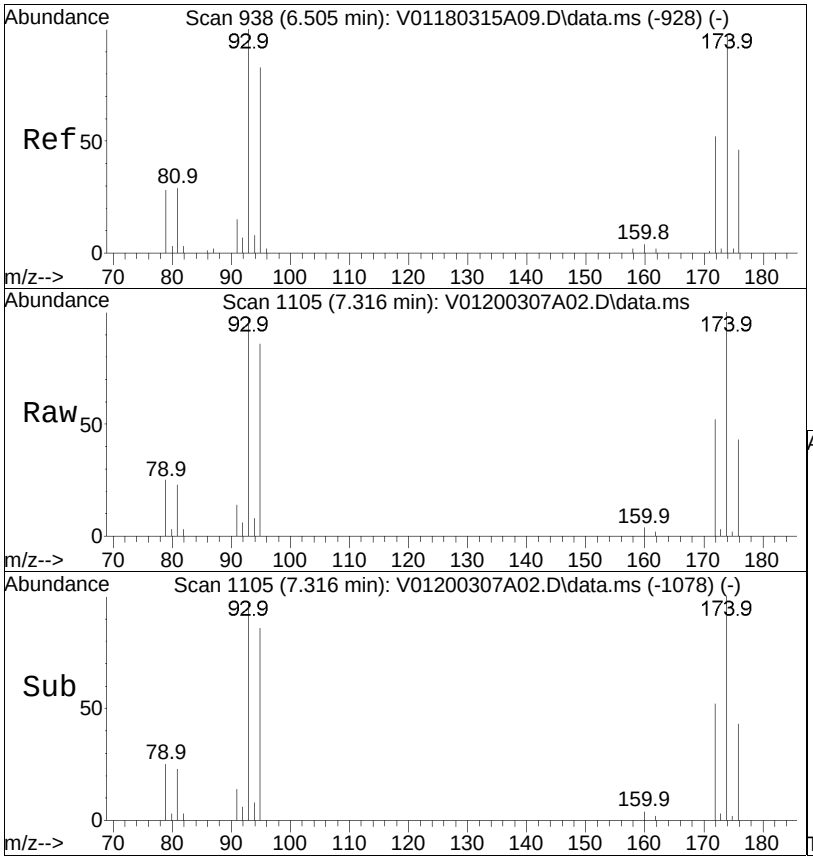


#48
Trichloroethene
Concen: 11.34 ug/L
RT: 6.830 min Scan# 1016
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 95 Resp: 55864

Ion	Ratio	Lower	Upper
95	100		
97	66.8	54.4	81.6
130	100.0	80.6	120.8

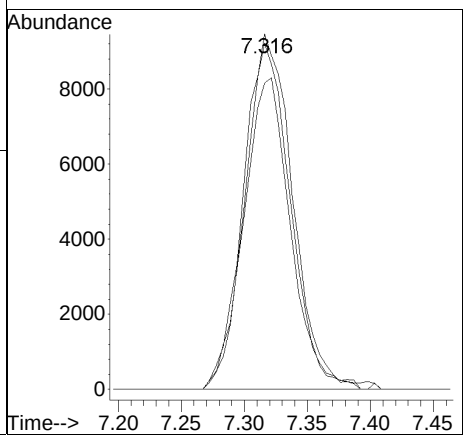


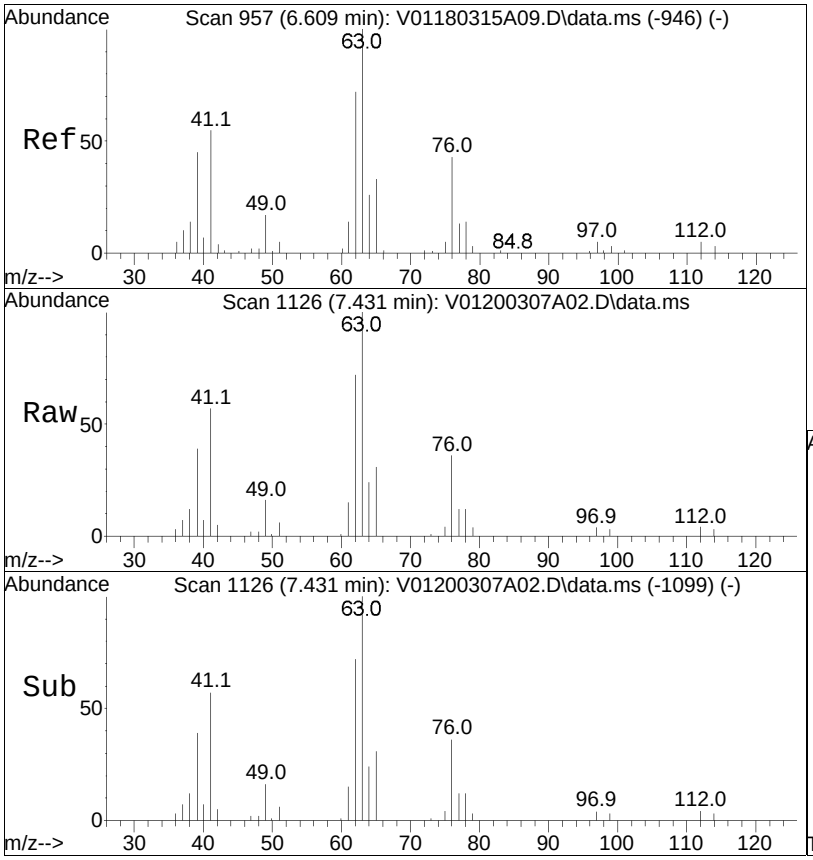


#50
Dibromomethane
Concen: 11.47 ug/L
RT: 7.316 min Scan# 1105
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 93 Resp: 24318

Ion	Ratio	Lower	Upper
93	100		
95	88.0	68.6	102.8
174	102.8	80.5	120.7

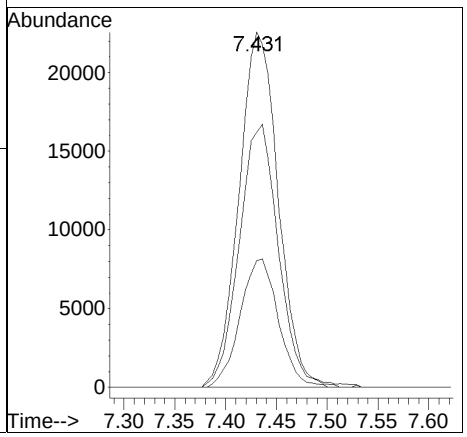


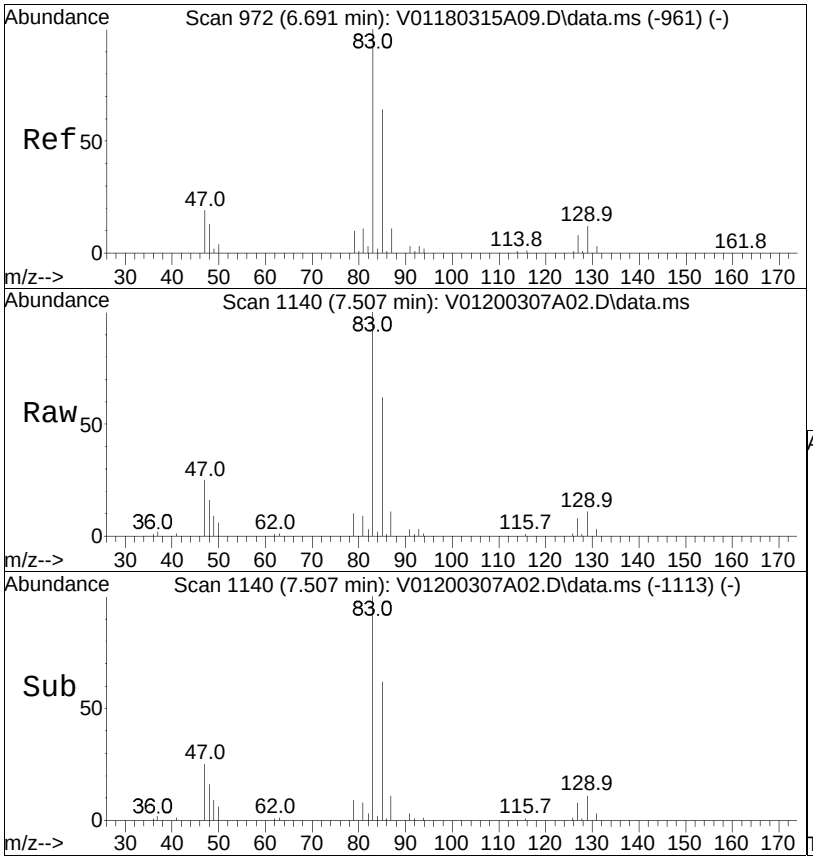


#51
1,2-Dichloropropane
Concen: 12.02 ug/L
RT: 7.431 min Scan# 1126
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 63 Resp: 61128

Ion	Ratio	Lower	Upper
63	100		
62	73.2	57.2	85.8
76	35.0	33.6	50.4

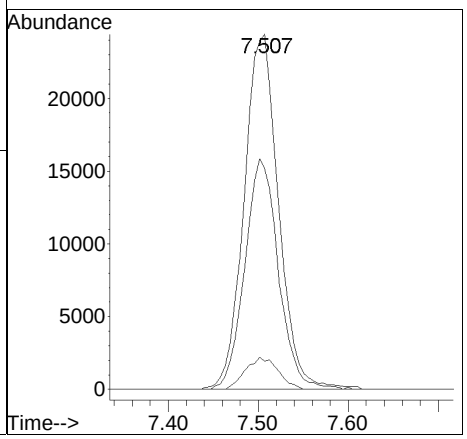


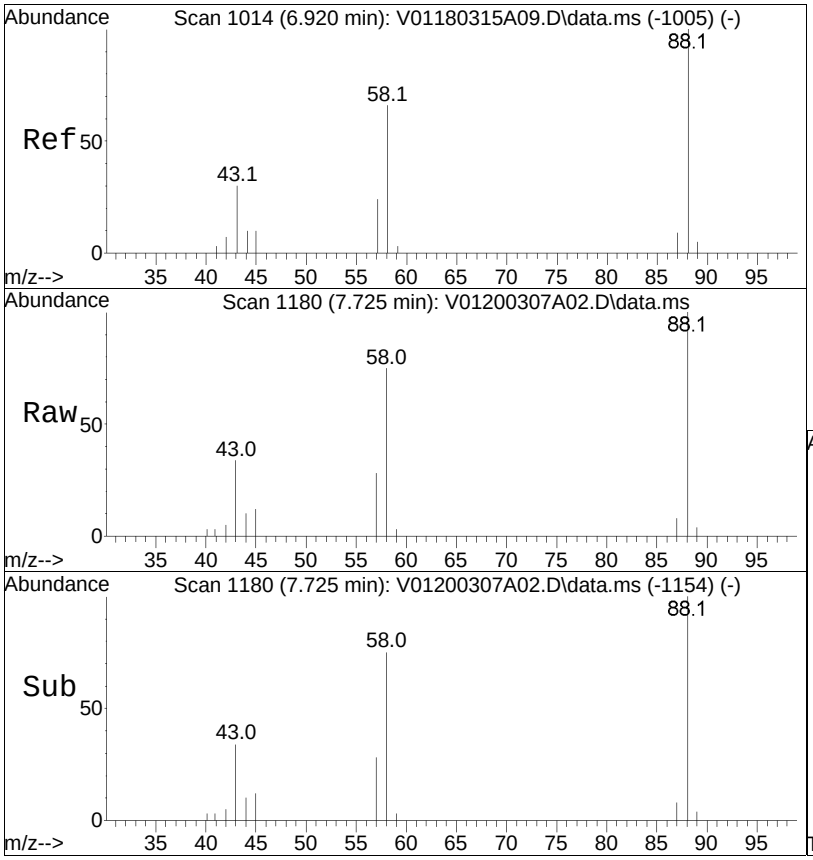


#54
Bromodichloromethane
Concen: 11.11 ug/L
RT: 7.507 min Scan# 1140
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 83 Resp: 65042

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.4
127	8.6	6.9	10.3

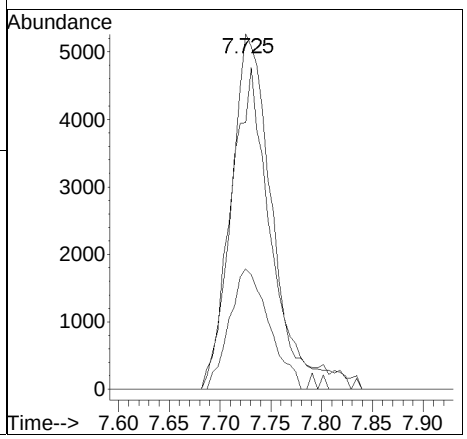


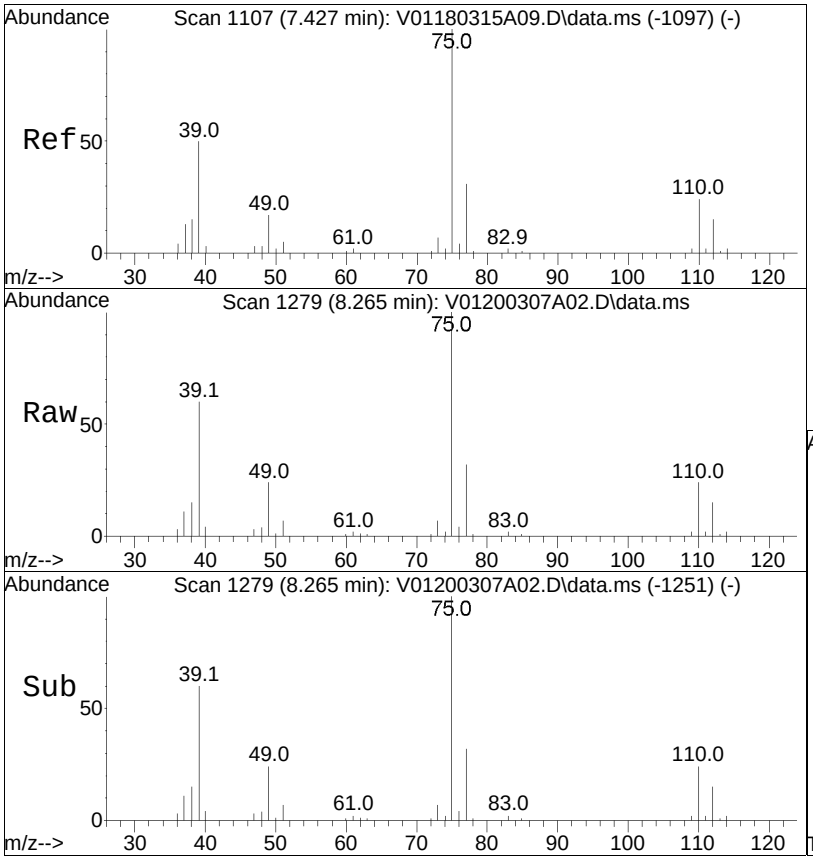


#57
1,4-Dioxane
Concen: 724.60 ug/L
RT: 7.725 min Scan# 1180
Delta R.T. -0.011 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 88 Resp: 15064

Ion	Ratio	Lower	Upper
88	100		
58	87.4	54.8	82.2#
43	32.2	29.3	43.9

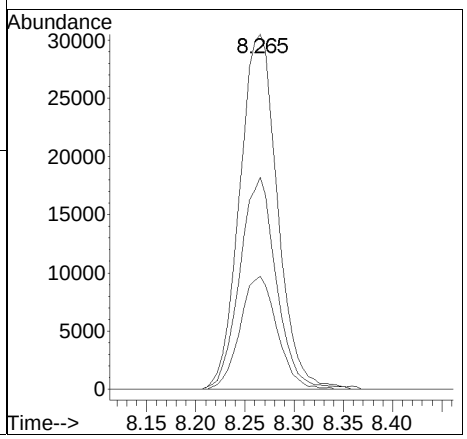


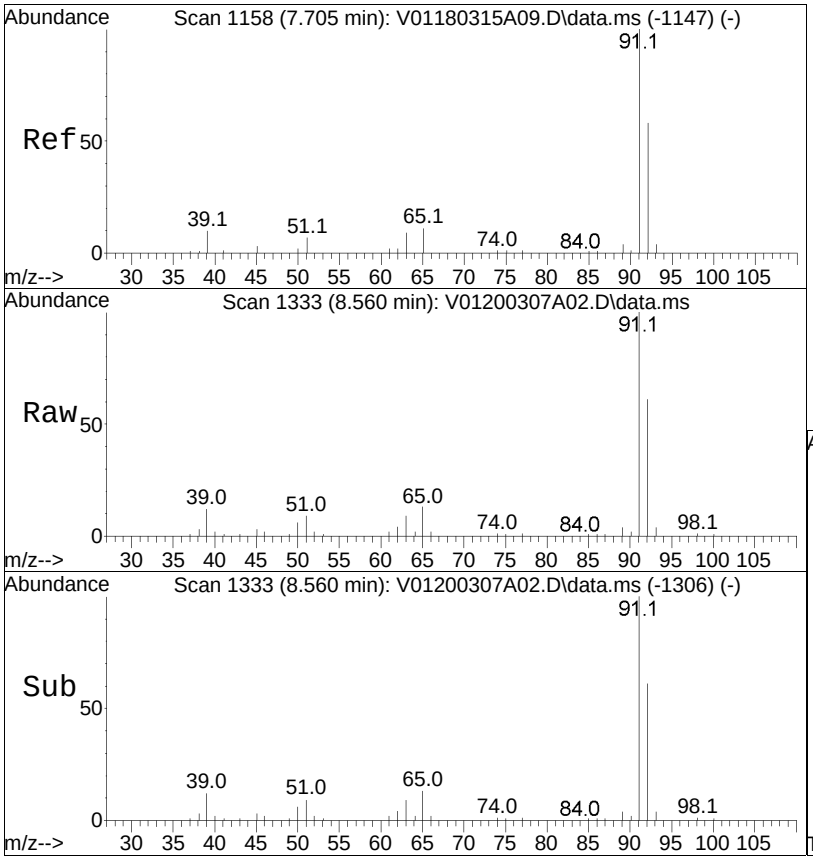


#58
cis-1,3-Dichloropropene
Concen: 11.34 ug/L
RT: 8.265 min Scan# 1279
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 75 Resp: 81698

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.1	37.7
39	57.7	42.6	63.8

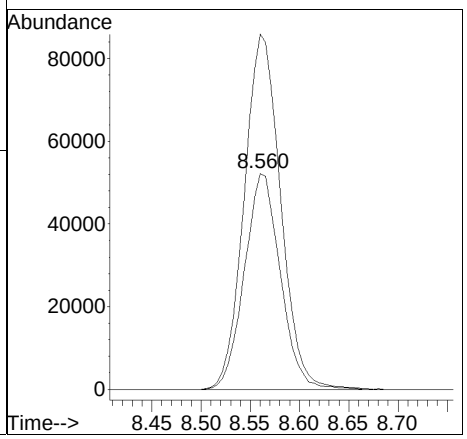


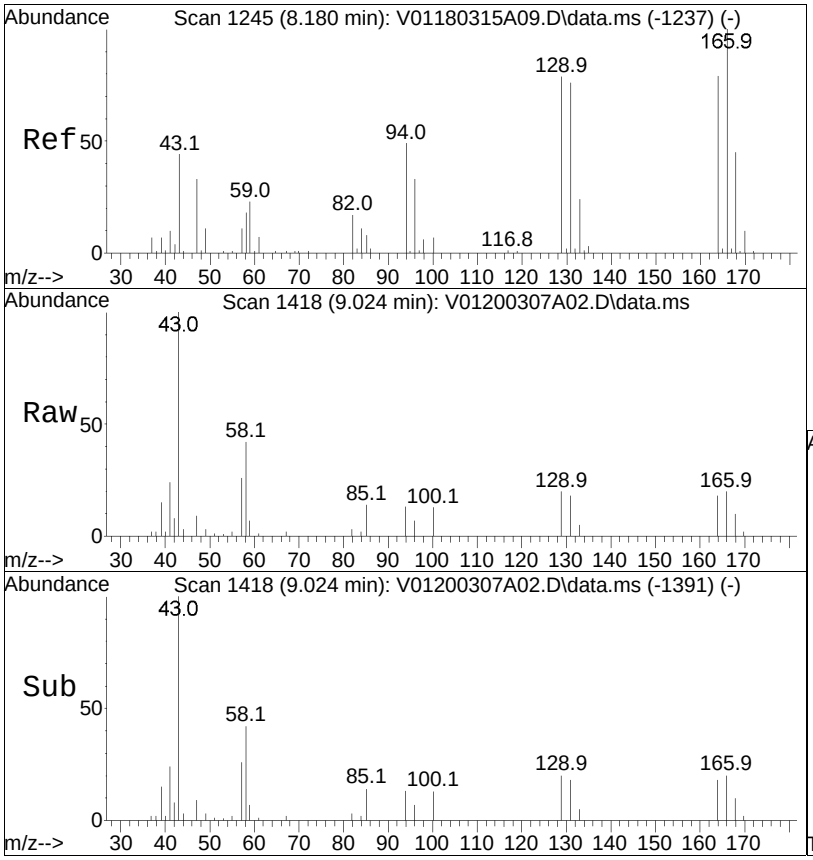


#61
Toluene
Concen: 11.36 ug/L
RT: 8.560 min Scan# 1333
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 92 Resp: 132607

Ion	Ratio	Lower	Upper
92	100		
91	166.8	137.5	206.3

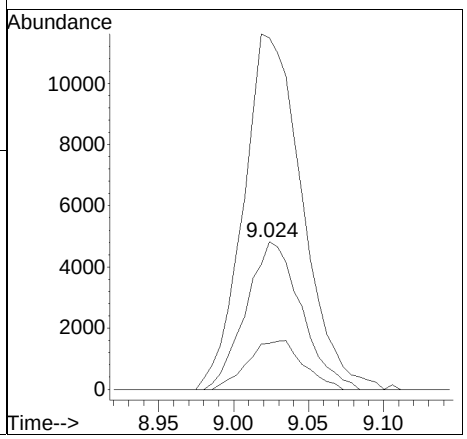


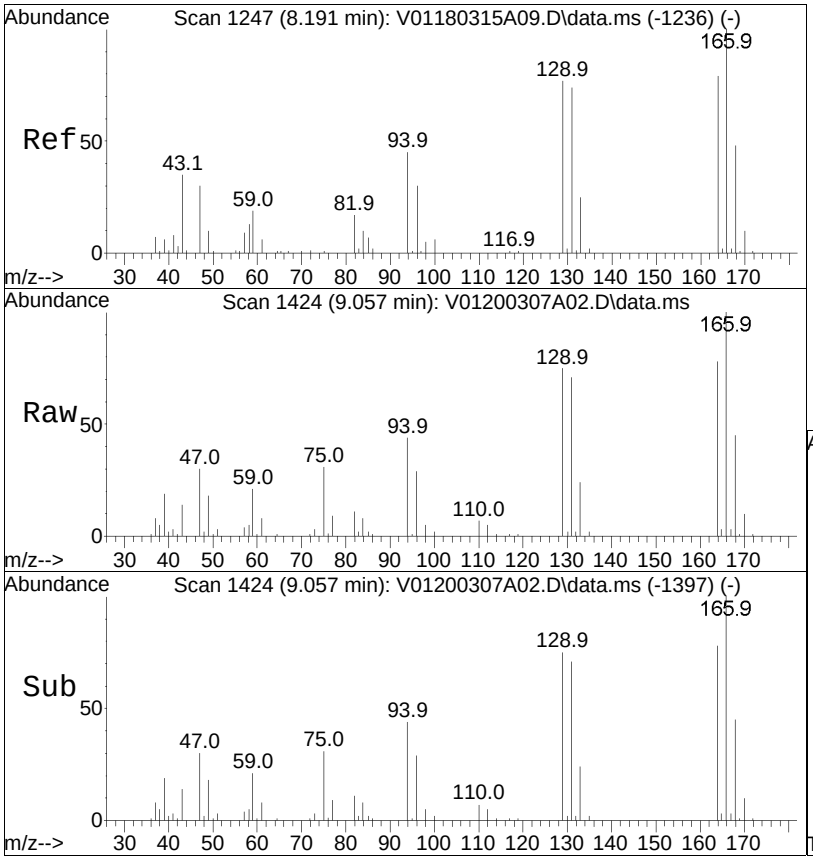


#62
4-Methyl-2-pentanone
Concen: 11.65 ug/L
RT: 9.024 min Scan# 1418
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 58 Resp: 12397

Ion	Ratio	Lower	Upper
58	100		
100	33.1	31.8	47.6
43	255.1	212.5	318.7

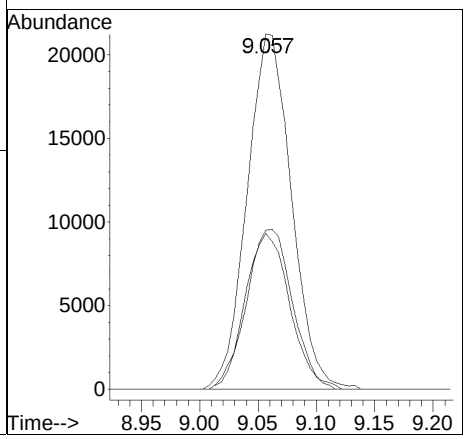


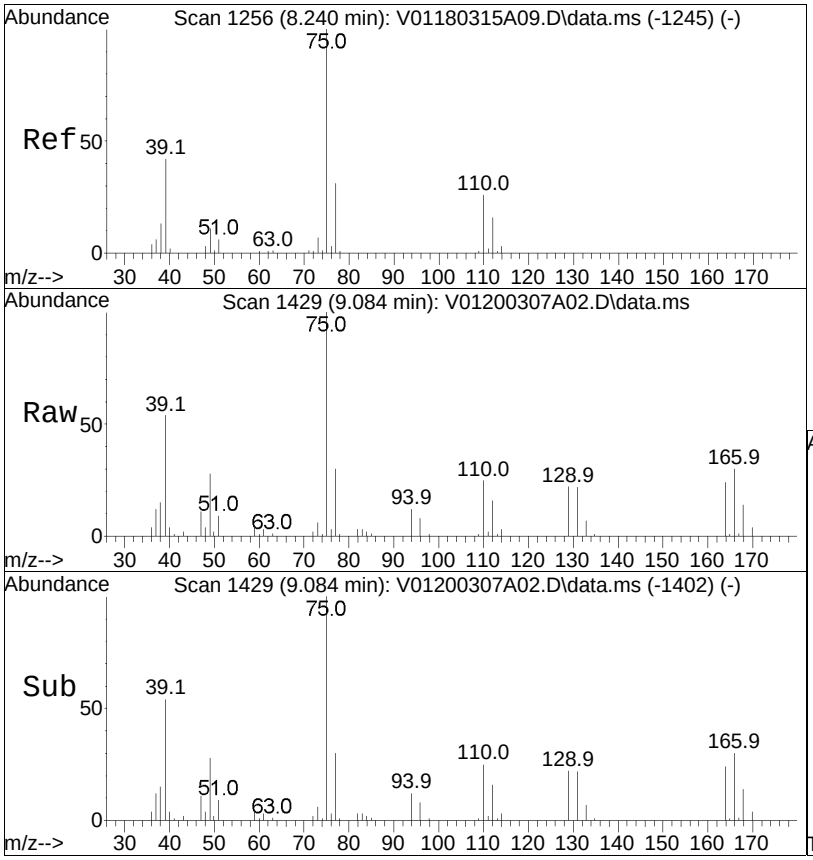


#63
Tetrachloroethene
Concen: 11.26 ug/L
RT: 9.057 min Scan# 1424
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:166 Resp: 56176

Ion	Ratio	Lower	Upper
166	100		
168	46.5	27.4	67.4
94	44.4	24.8	64.8

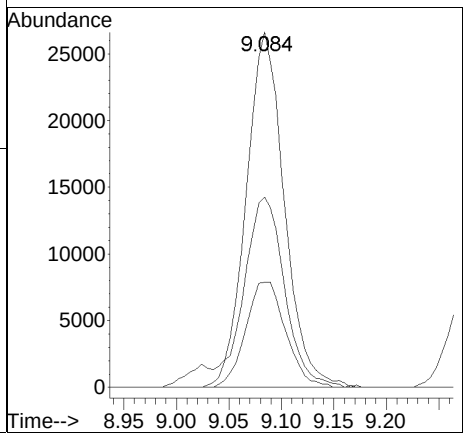


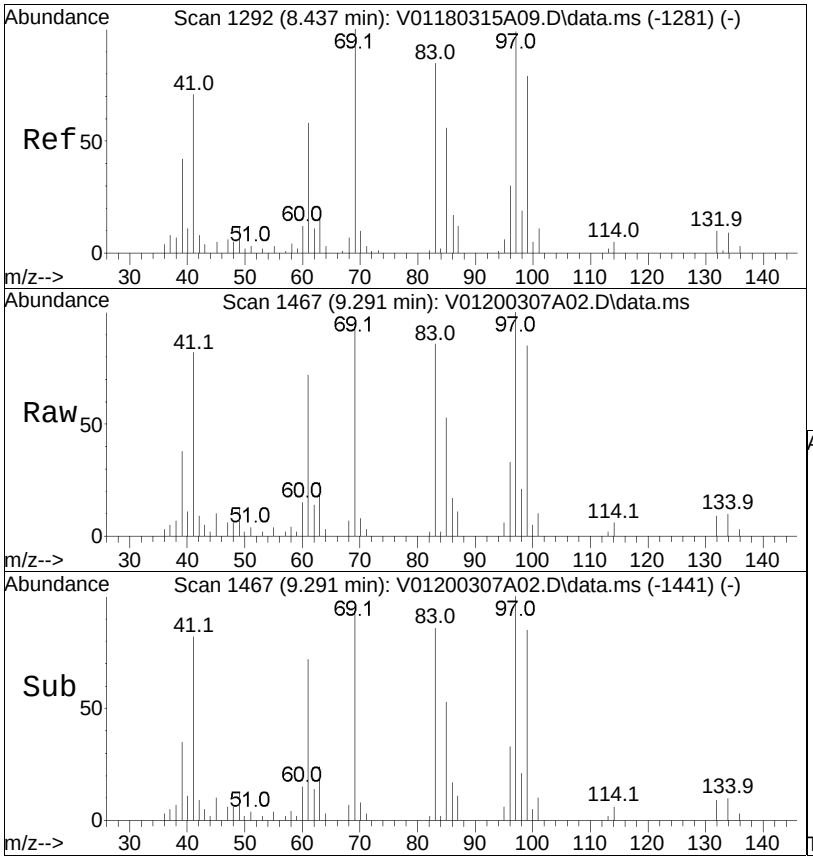


#65
trans-1,3-Dichloropropene
Concen: 11.01 ug/L
RT: 9.084 min Scan# 1429
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 75 Resp: 67488

Ion	Ratio	Lower	Upper
75	100		
77	31.1	11.8	51.8
39	56.9	30.2	70.2

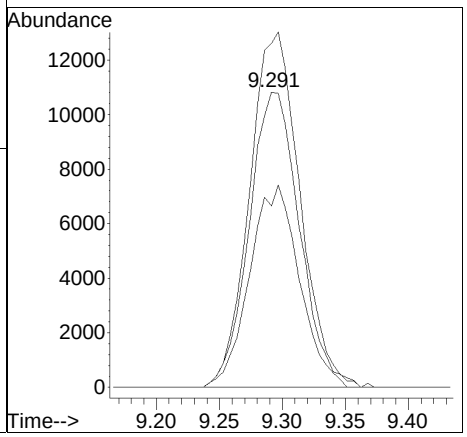


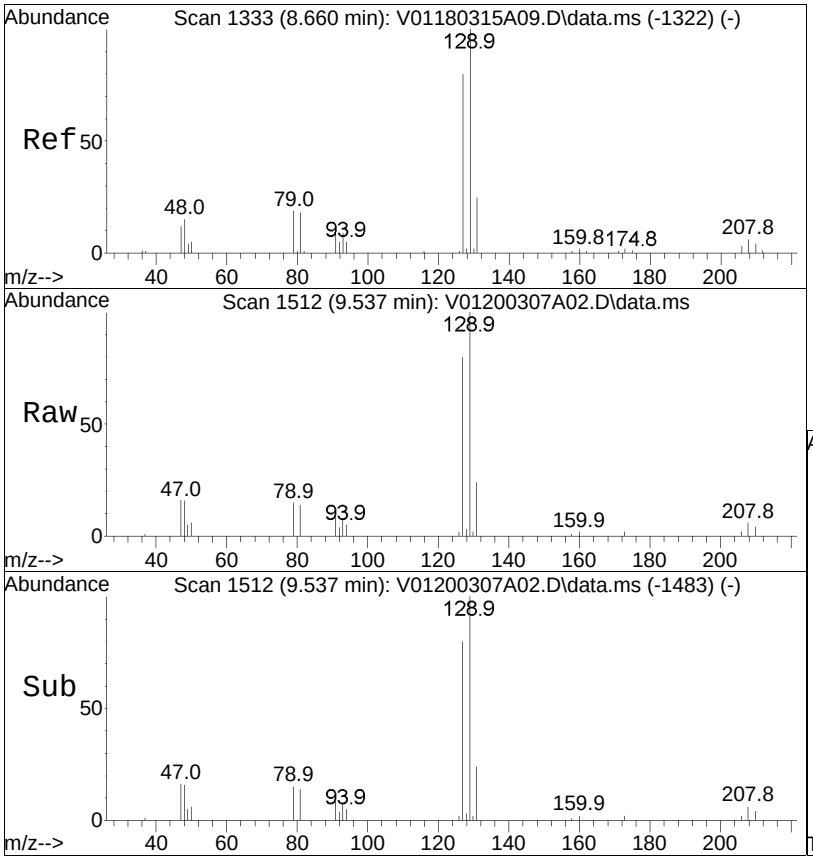


#68
1,1,2-Trichloroethane
Concen: 11.28 ug/L
RT: 9.291 min Scan# 1467
Delta R.T. -0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 83 Resp: 30123

Ion	Ratio	Lower	Upper
83	100		
97	120.5	96.7	136.7
85	67.7	45.3	85.3

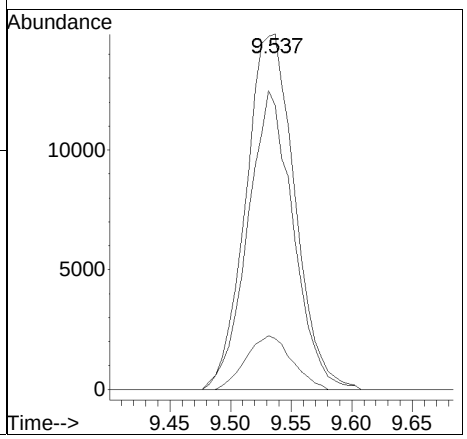


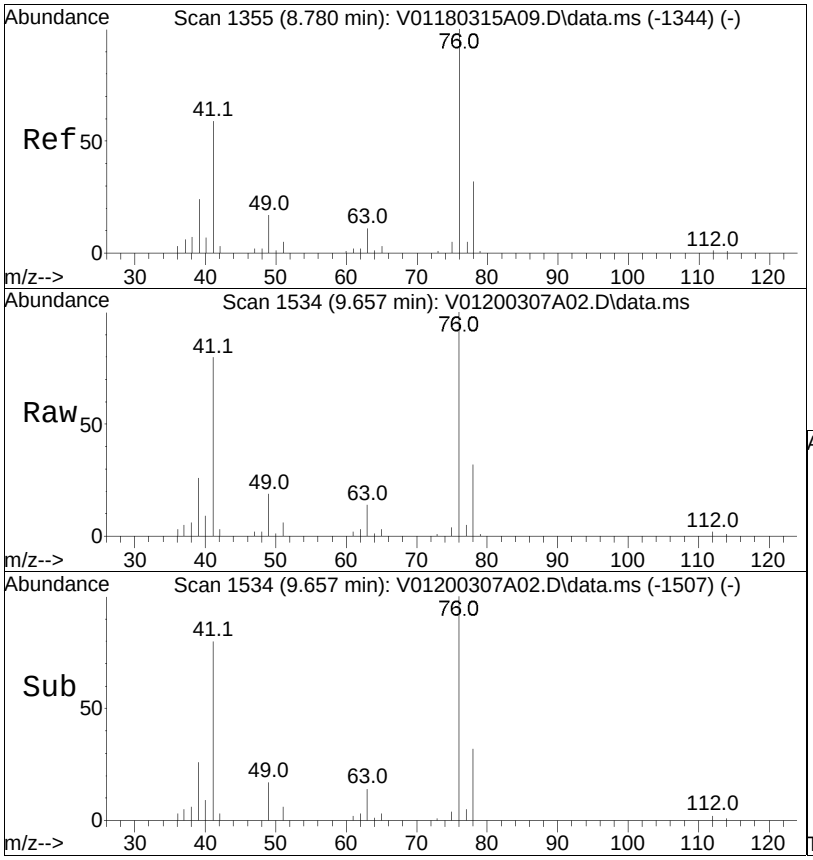


#69
Chlorodibromomethane
Concen: 10.65 ug/L
RT: 9.537 min Scan# 1512
Delta R.T. 0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:129 Resp: 41723

Ion	Ratio	Lower	Upper
129	100		
81	14.2	0.0	37.9
127	78.1	56.6	96.6

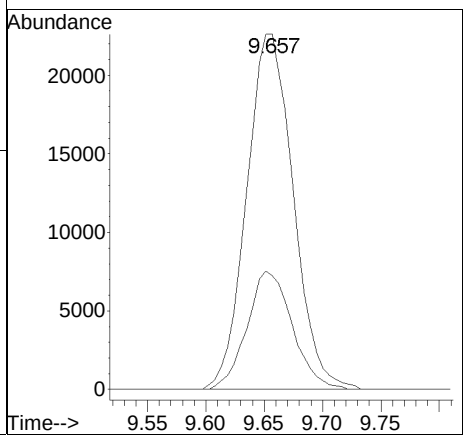


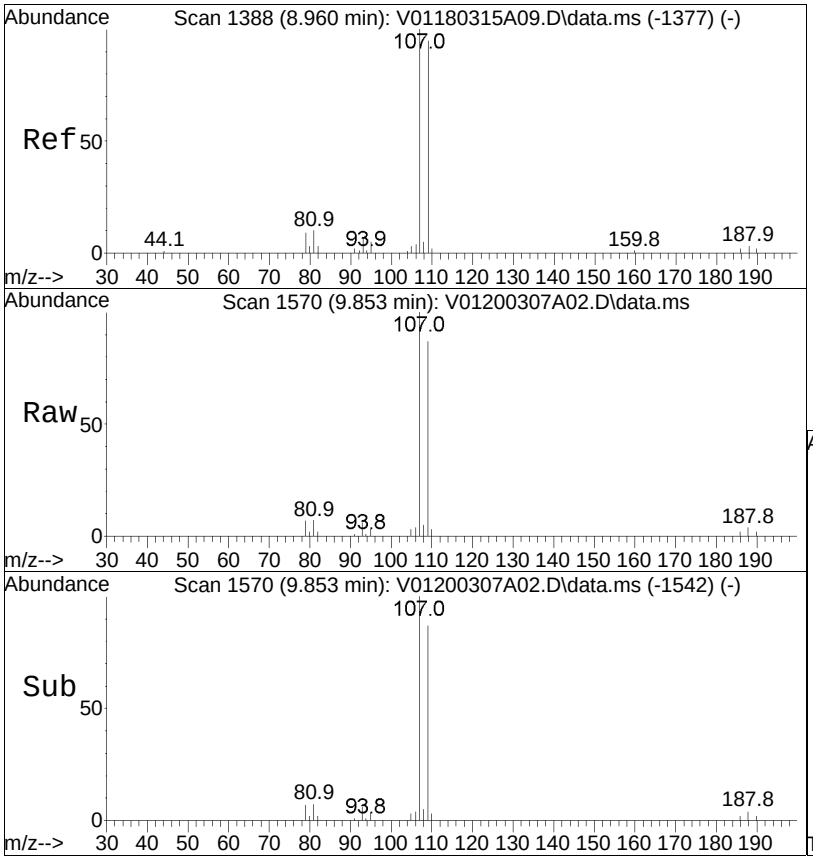


#70
1,3-Dichloropropane
Concen: 11.11 ug/L
RT: 9.657 min Scan# 1534
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 76 Resp: 62882

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

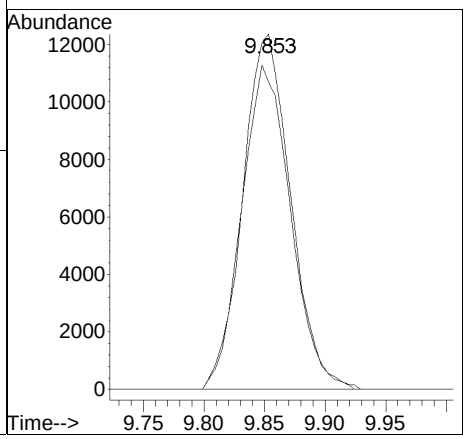


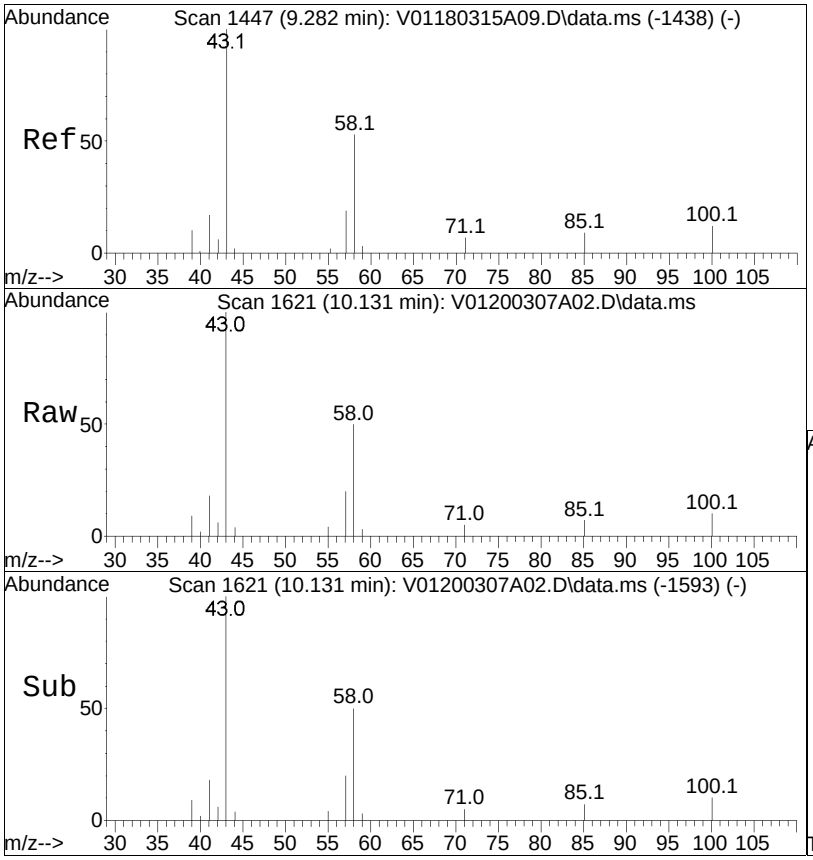


#71
1,2-Dibromoethane
Concen: 11.09 ug/L
RT: 9.853 min Scan# 1570
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:107 Resp: 34247

Ion	Ratio	Lower	Upper
107	100		
109	91.9	75.6	113.4

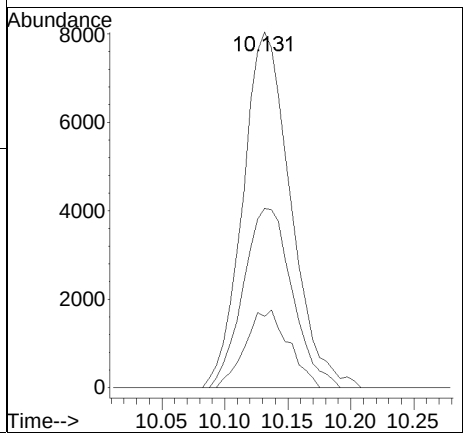


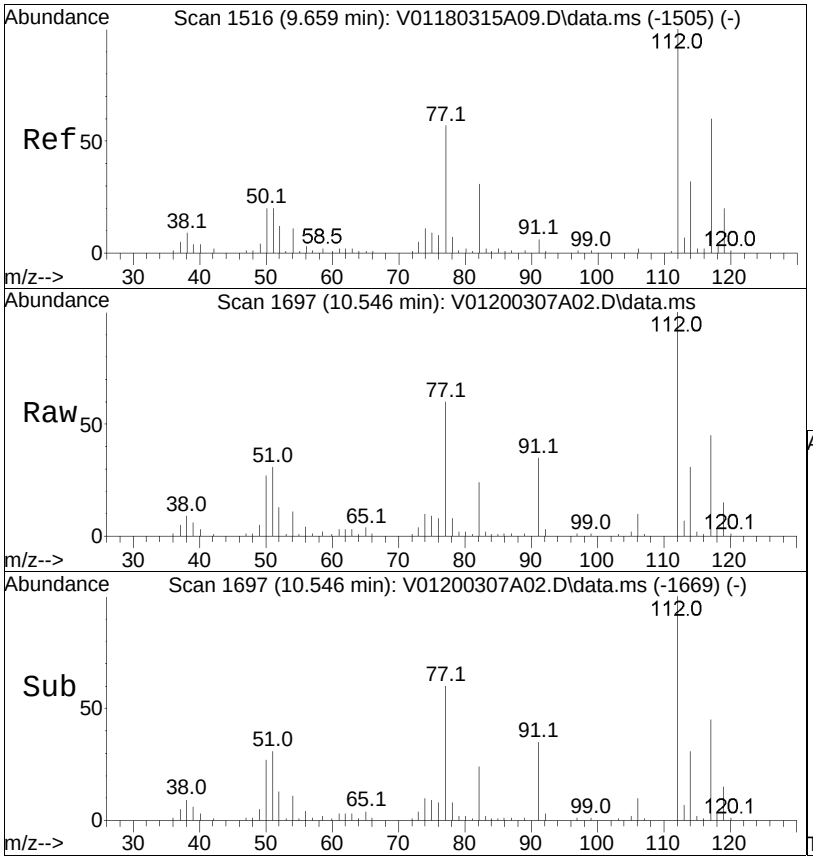


#72
2-Hexanone
Concen: 10.56 ug/L
RT: 10.131 min Scan# 1621
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 43 Resp: 21218

Ion	Ratio	Lower	Upper
43	100		
58	51.6	40.8	61.2
57	19.7	14.2	21.4

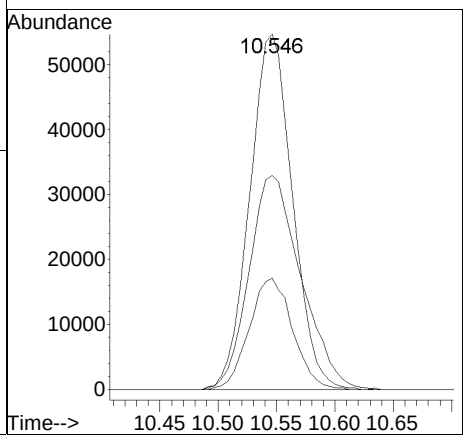


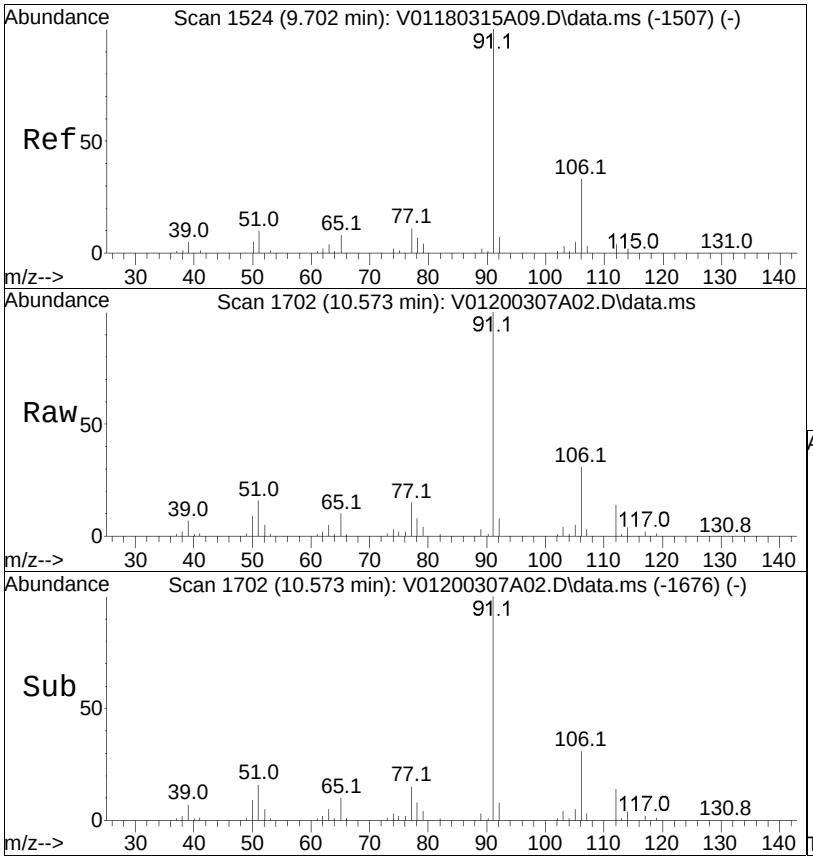


#73
Chlorobenzene
Concen: 11.16 ug/L
RT: 10.546 min Scan# 1697
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:112 Resp: 139357

Ion	Ratio	Lower	Upper
112	100		
77	73.1	59.8	89.6
114	31.7	25.4	38.2

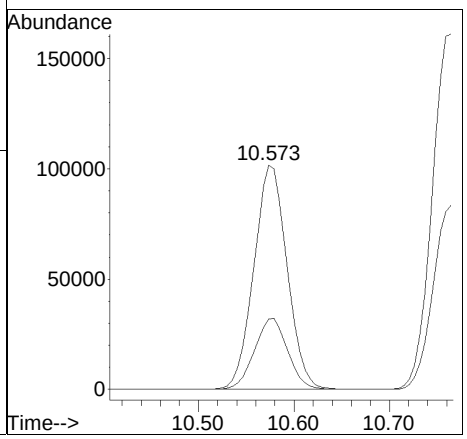


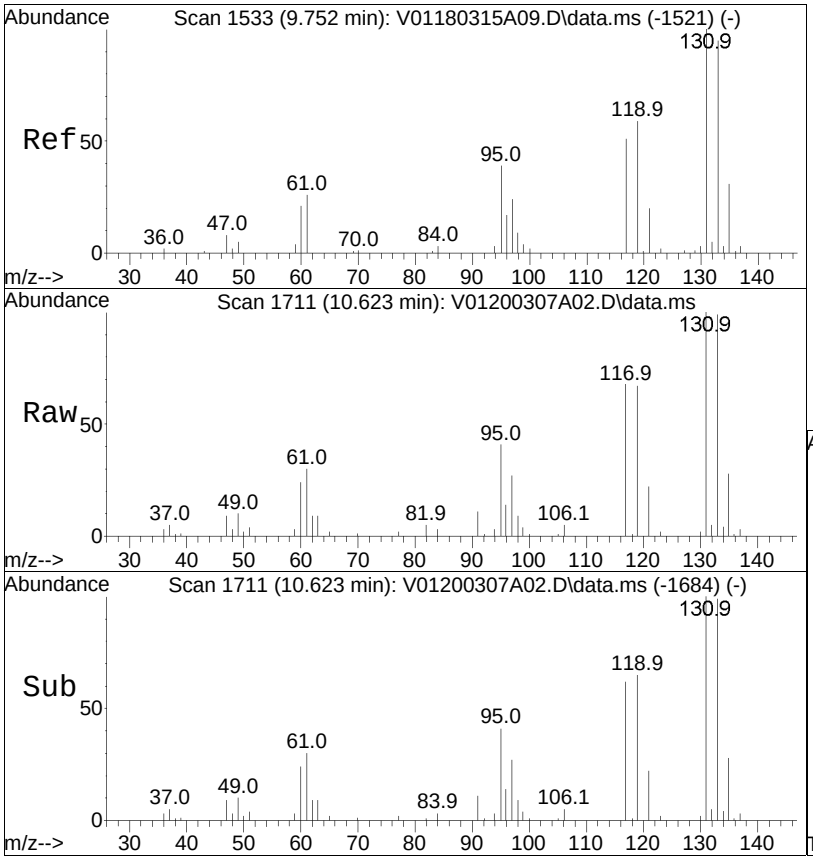


#74
Ethylbenzene
Concen: 11.26 ug/L
RT: 10.573 min Scan# 1702
Delta R.T. -0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 91 Resp: 246354

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.7	37.1

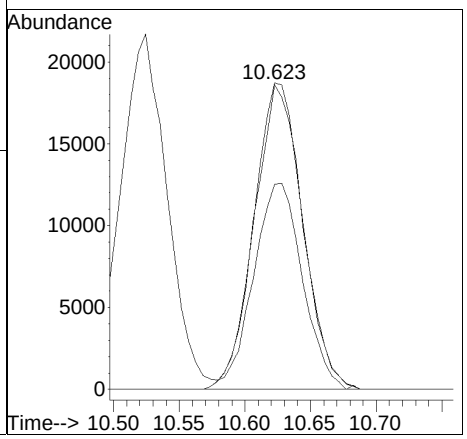


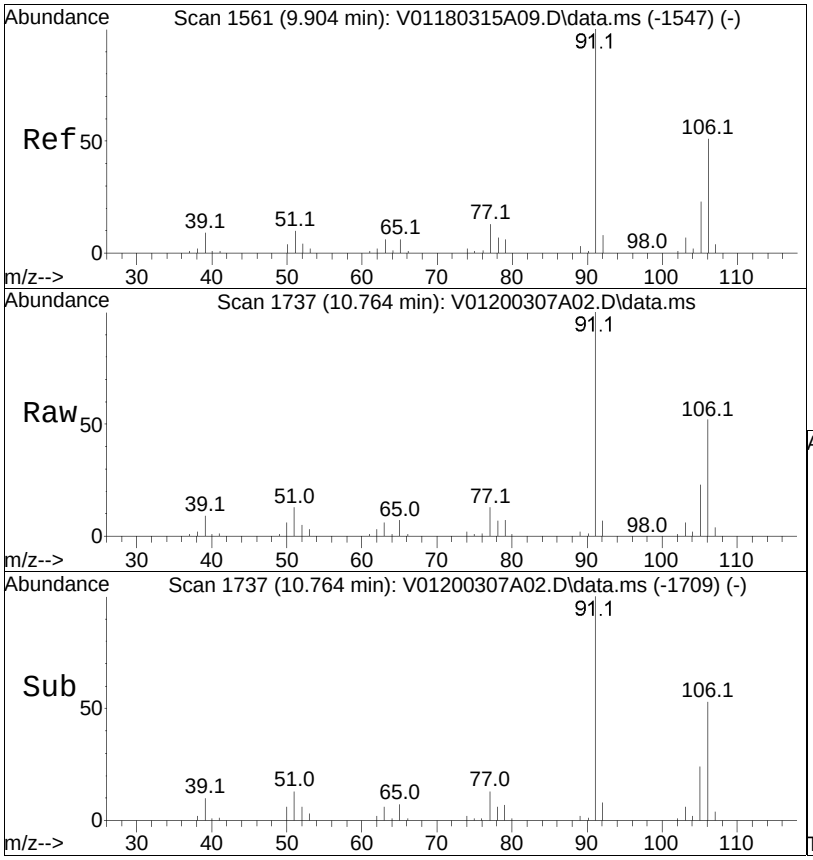


#75
1,1,1,2-Tetrachloroethane
Concen: 10.71 ug/L
RT: 10.623 min Scan# 1711
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:131 Resp: 48716

Ion	Ratio	Lower	Upper
131	100		
133	97.9	75.8	115.8
119	66.8	45.8	85.8

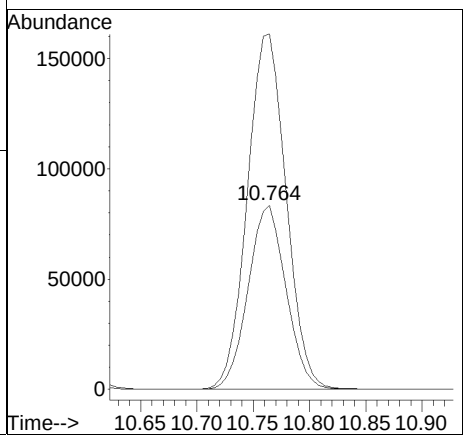


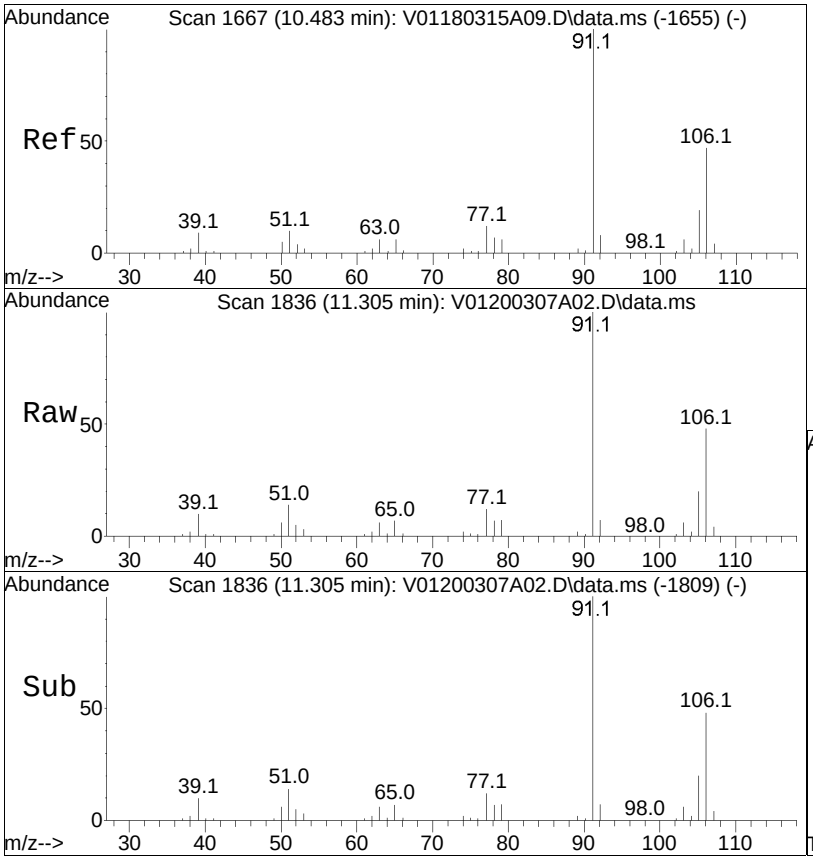


#76
p/m Xylene
Concen: 23.02 ug/L
RT: 10.764 min Scan# 1737
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:106 Resp: 195565

Ion	Ratio	Lower	Upper
106	100		
91	197.6	162.9	244.3

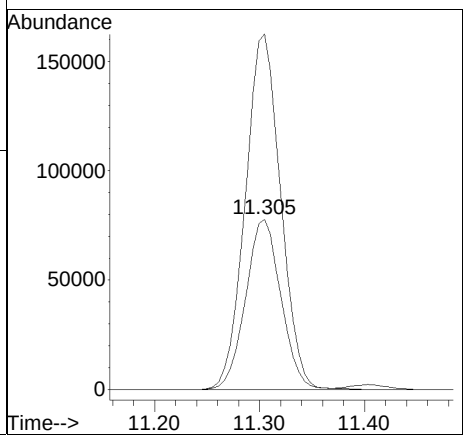


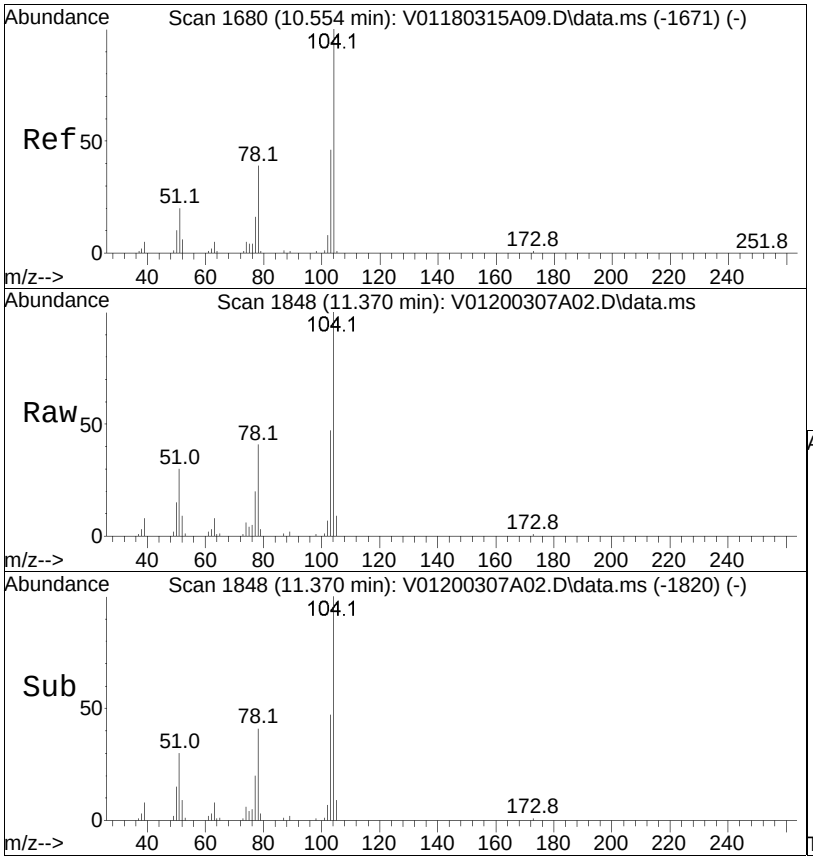


#77
o Xylene
Concen: 22.88 ug/L
RT: 11.305 min Scan# 1836
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:106 Resp: 181774

Ion	Ratio	Lower	Upper
106	100		
91	208.5	171.2	256.8

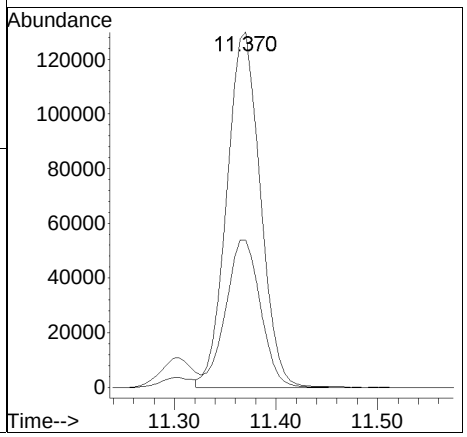


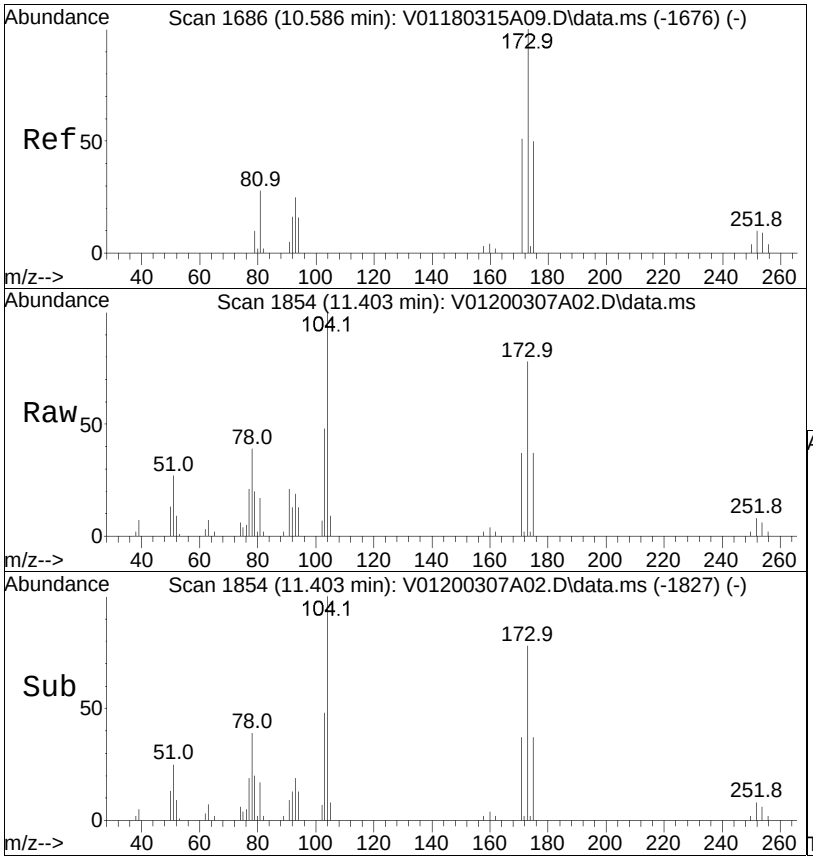


#78
Styrene
Concen: 22.43 ug/L
RT: 11.370 min Scan# 1848
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:104 Resp: 298694

Ion	Ratio	Lower	Upper
104	100		
78	42.8	34.2	51.4

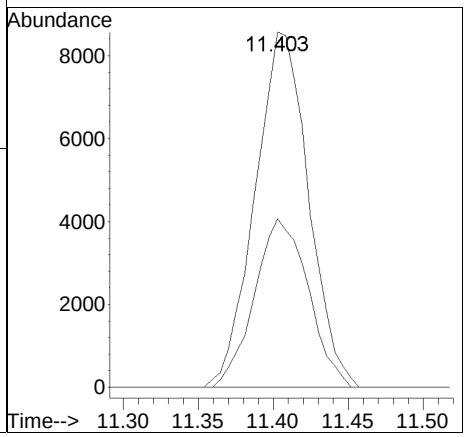


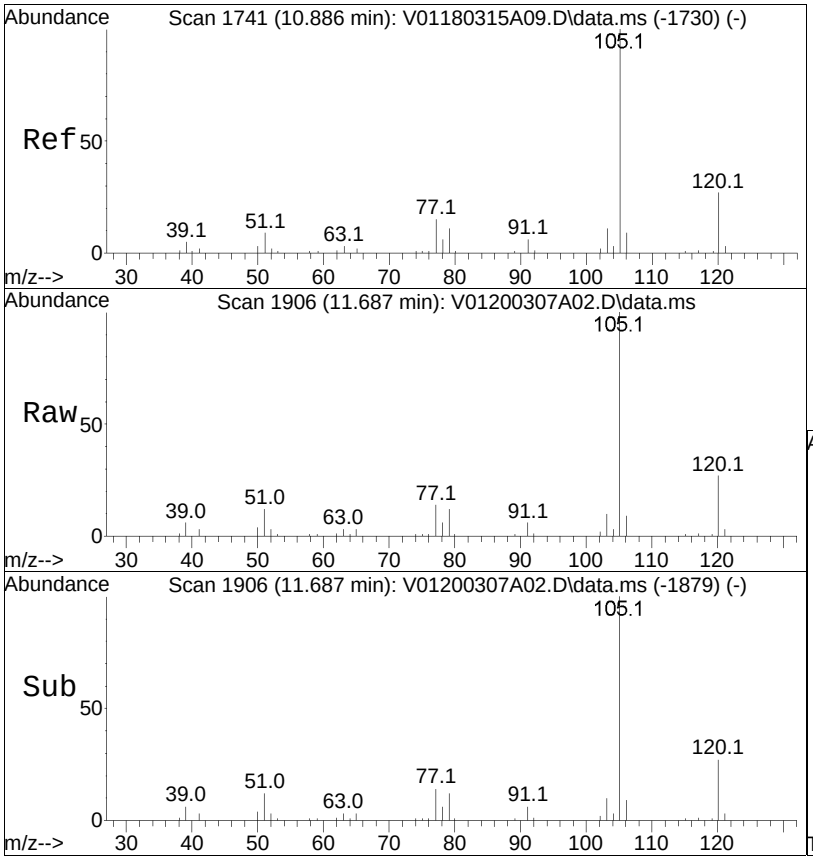


#80
Bromoform
Concen: 10.08 ug/L
RT: 11.403 min Scan# 1854
Delta R.T. -0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:173 Resp: 21237

Ion	Ratio	Lower	Upper
173	100		
175	47.8	28.6	68.6

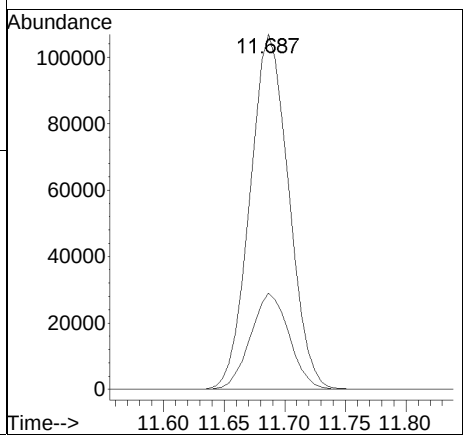


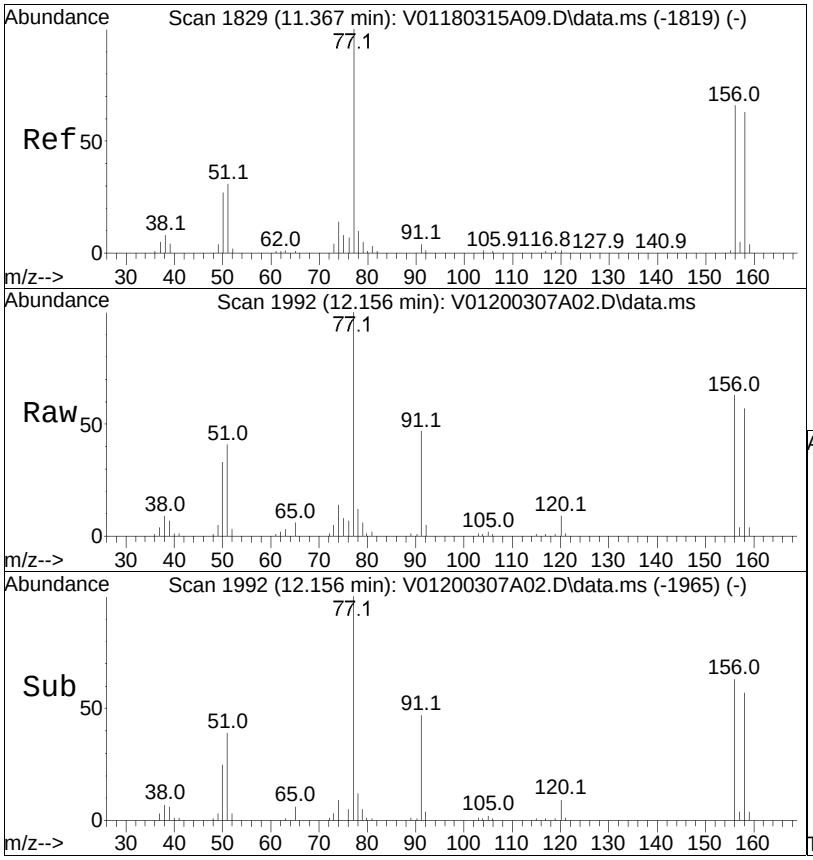


#82
Isopropylbenzene
Concen: 10.99 ug/L
RT: 11.687 min Scan# 1906
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:105 Resp: 237741

Ion	Ratio	Lower	Upper
105	100		
120	27.0	7.3	47.3

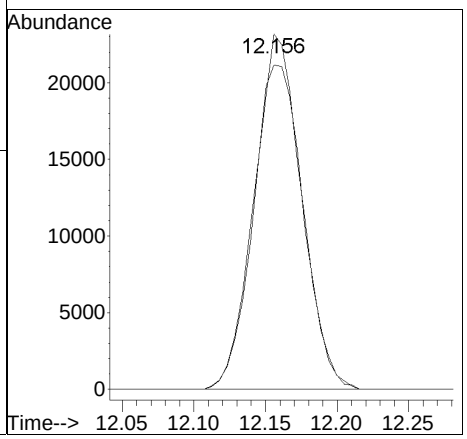


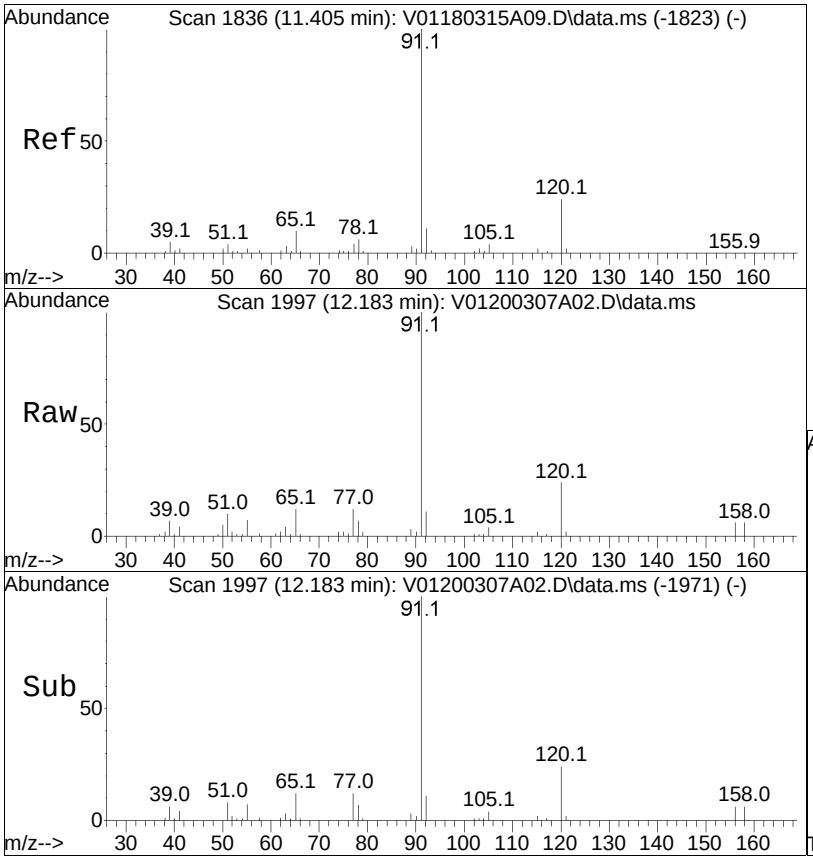


#84
Bromobenzene
Concen: 10.98 ug/L
RT: 12.156 min Scan# 1992
Delta R.T. -0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:156 Resp: 53126

Ion	Ratio	Lower	Upper
156	100		
158	97.2	78.2	117.4

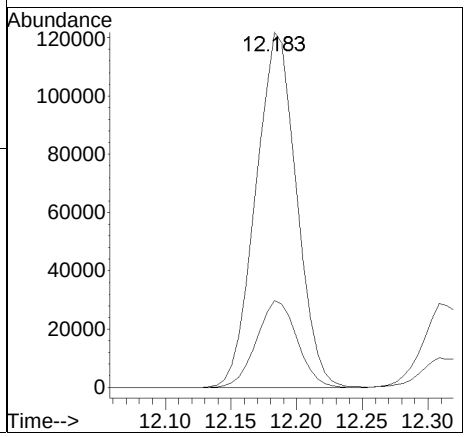


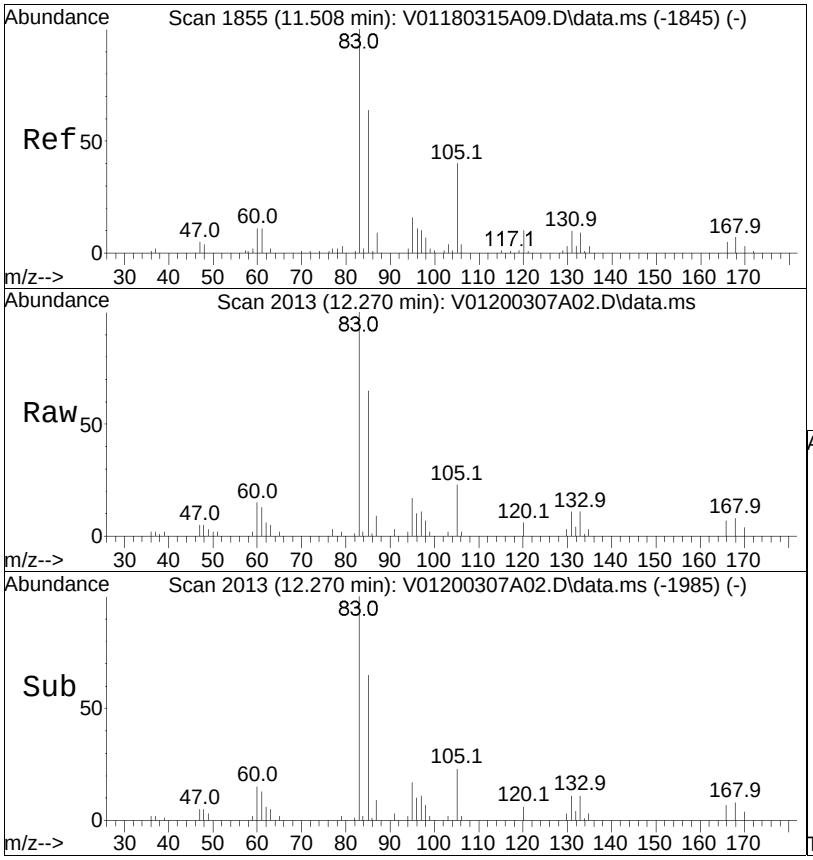


#85
n-Propylbenzene
Concen: 11.23 ug/L
RT: 12.183 min Scan# 1997
Delta R.T. -0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 91 Resp: 262902

Ion	Ratio	Lower	Upper
91	100		
120	24.2	18.6	28.0

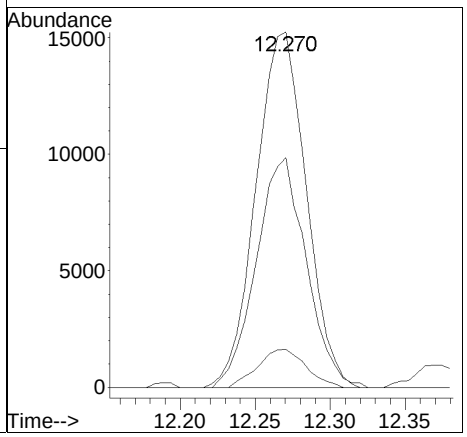


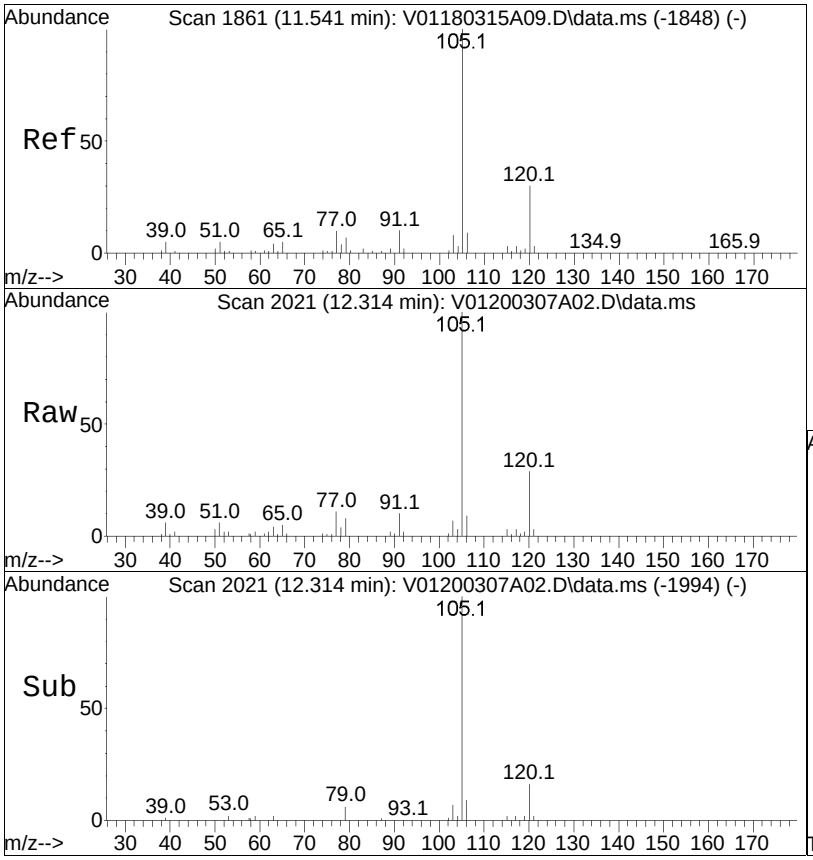


#87
1,1,2,2-Tetrachloroethane
Concen: 10.82 ug/L
RT: 12.270 min Scan# 2013
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 83 Resp: 35531

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	30.1
85	64.4	45.8	85.8

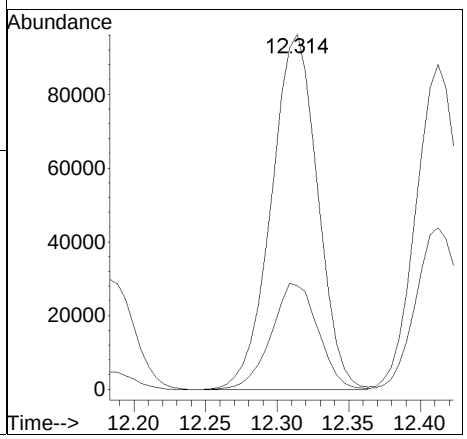


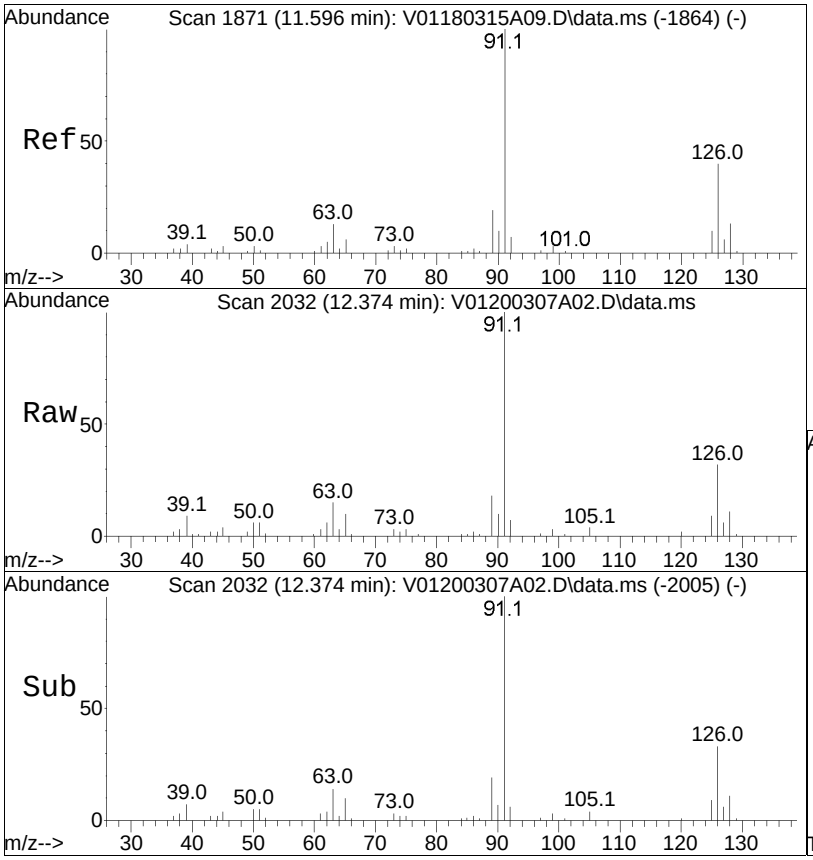


#88
4-Ethyltoluene
Concen: 11.30 ug/L
RT: 12.314 min Scan# 2021
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:105 Resp: 216303

Ion	Ratio	Lower	Upper
105	100		
120	30.2	19.8	41.0

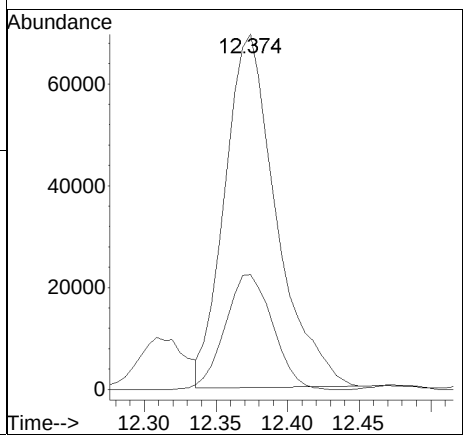


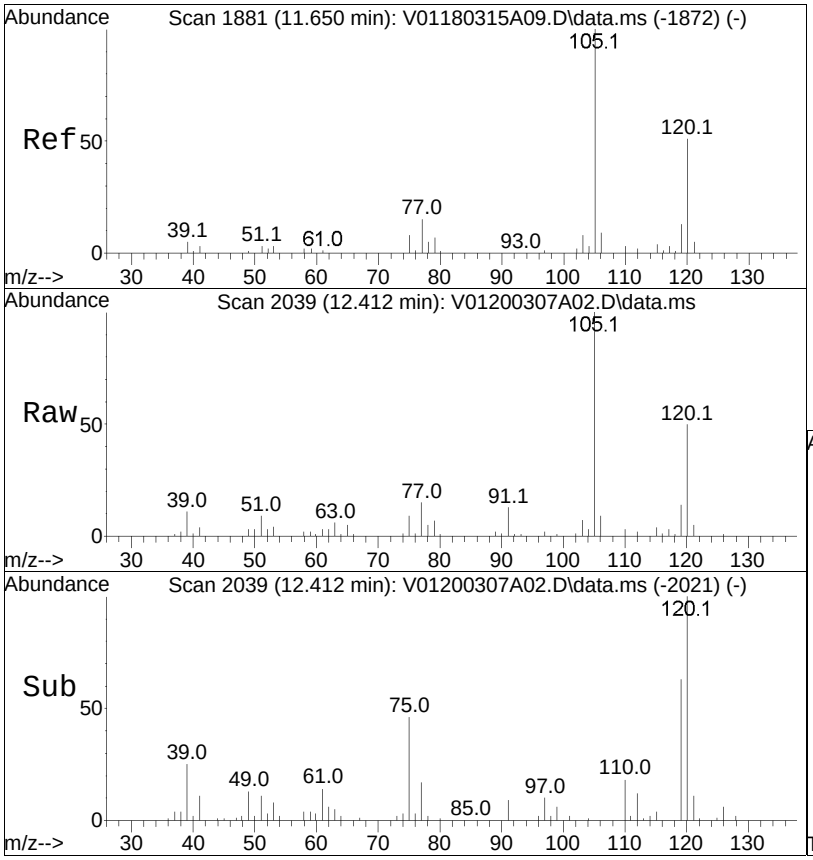


#89
2-Chlorotoluene
Concen: 11.15 ug/L
RT: 12.374 min Scan# 2032
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 91 Resp: 173235

Ion	Ratio	Lower	Upper
91	100		
126	30.1	27.1	40.7

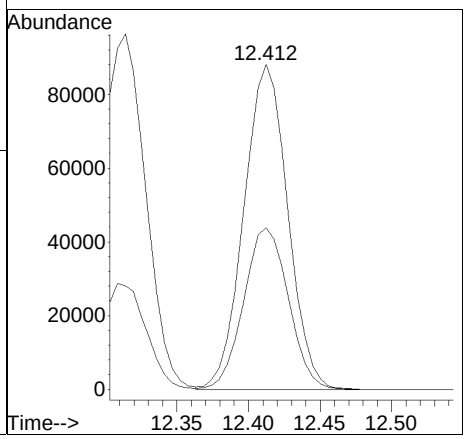


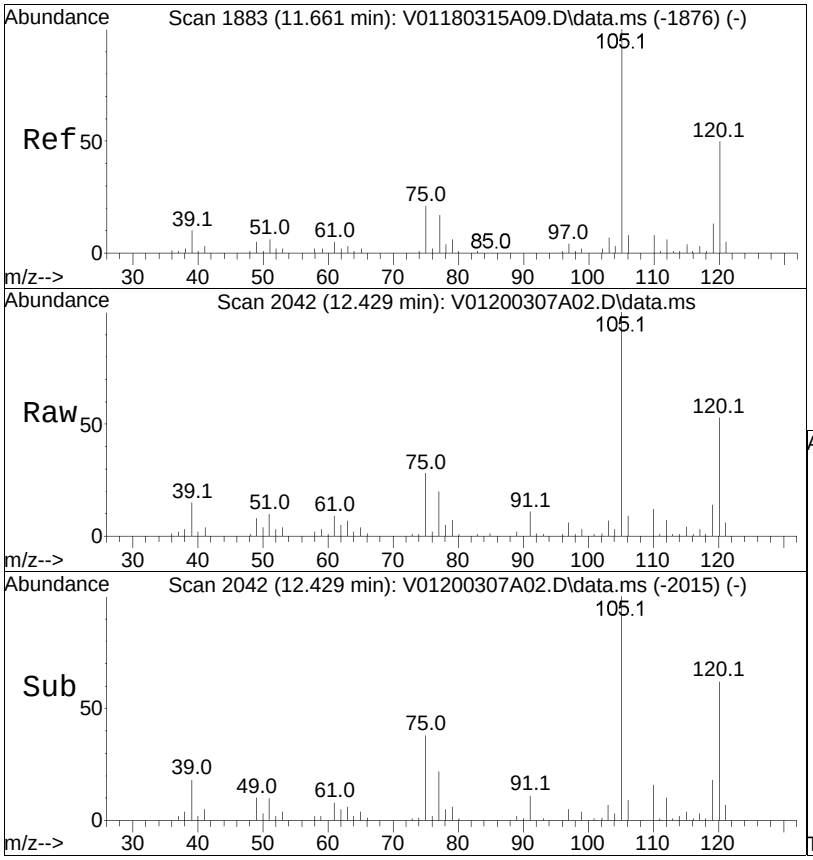


#90
1,3,5-Trimethylbenzene
Concen: 11.20 ug/L
RT: 12.412 min Scan# 2039
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:105 Resp: 187675

Ion	Ratio	Lower	Upper
105	100		
120	50.6	40.6	60.8

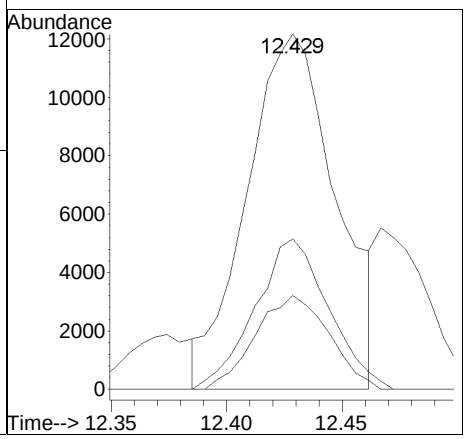


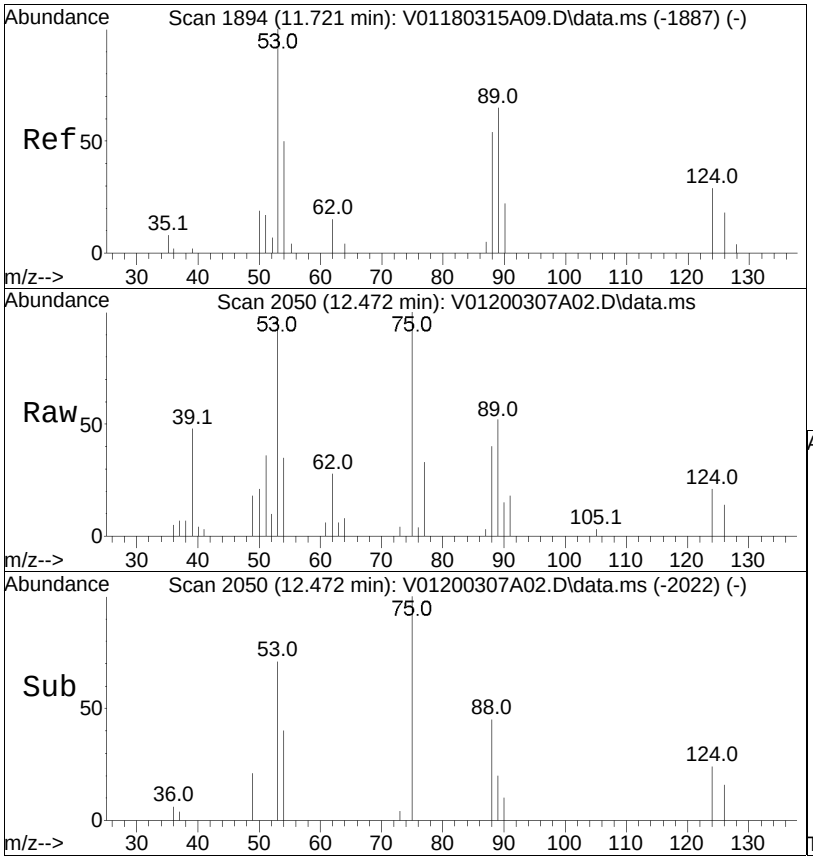


#91
1,2,3-Trichloropropane
Concen: 10.55 ug/L M1
RT: 12.429 min Scan# 2042
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 75 Resp: 32653

Ion	Ratio	Lower	Upper
75	100		
110	35.0	26.5	54.9
112	21.9	17.0	35.2

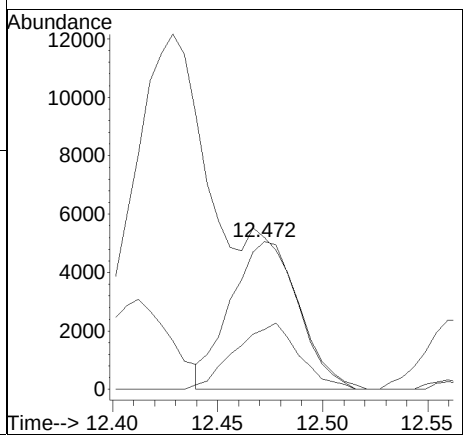


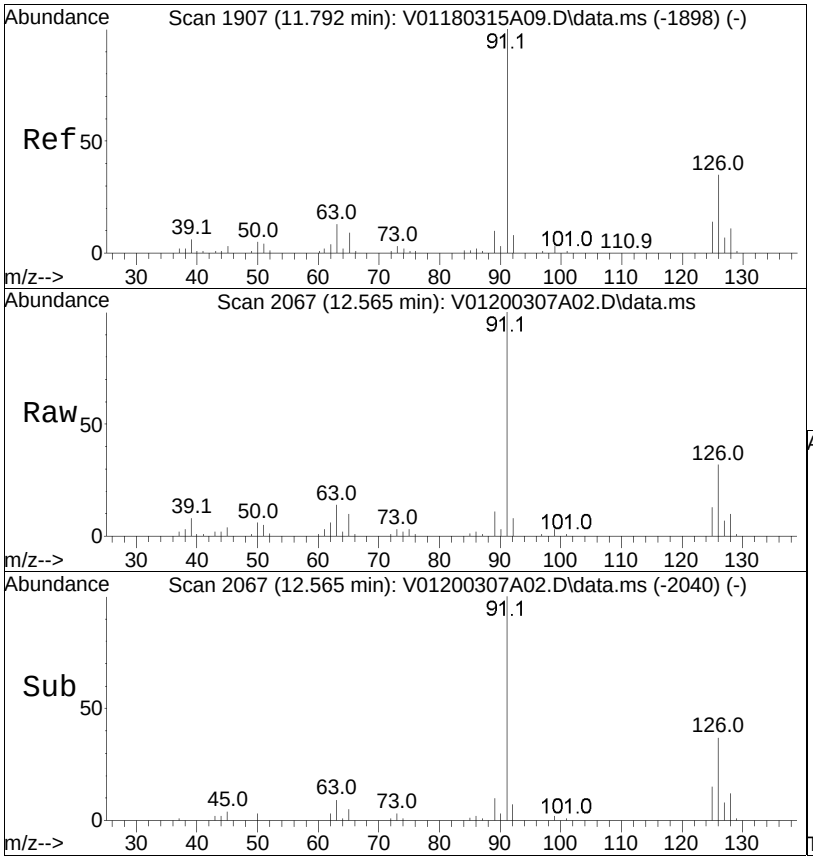


#92
trans-1,4-Dichloro-2-butene
Concen: 11.32 ug/L
RT: 12.472 min Scan# 2050
Delta R.T. 0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 53 Resp: 11343

Ion	Ratio	Lower	Upper
53	100		
88	42.5	46.0	69.0#
75	0.0	107.0	160.4#

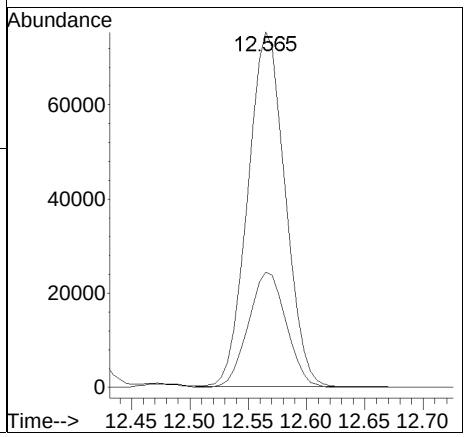


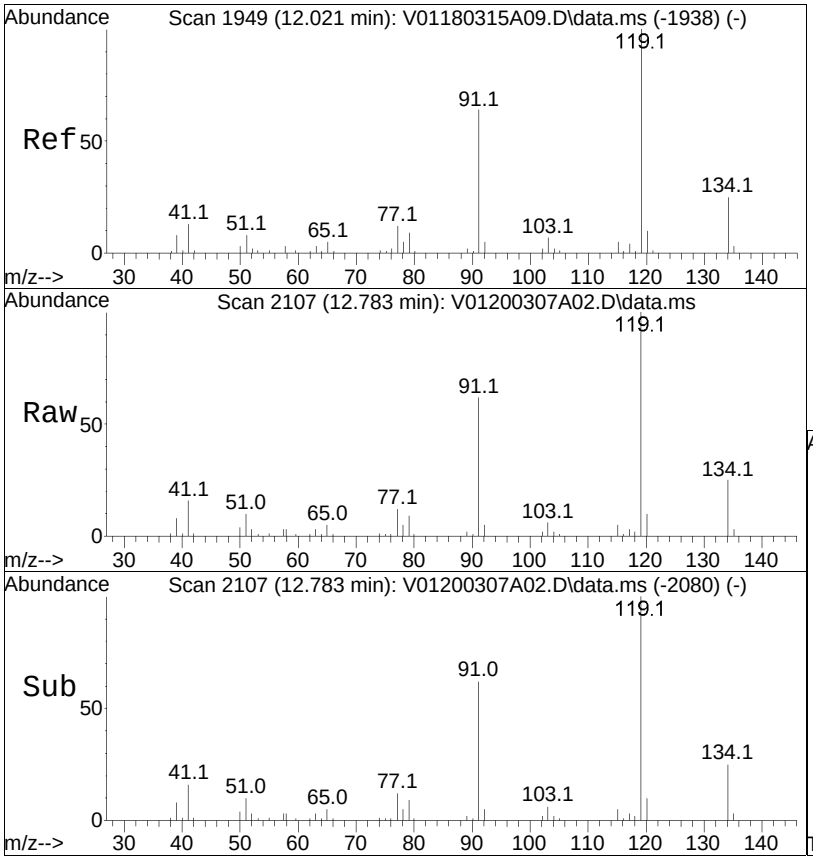


#93
4-Chlorotoluene
Concen: 11.28 ug/L
RT: 12.565 min Scan# 2067
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 91 Resp: 167529

Ion	Ratio	Lower	Upper
91	100		
126	33.0	28.2	42.2

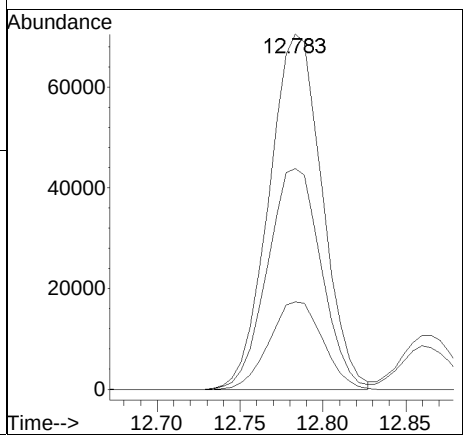


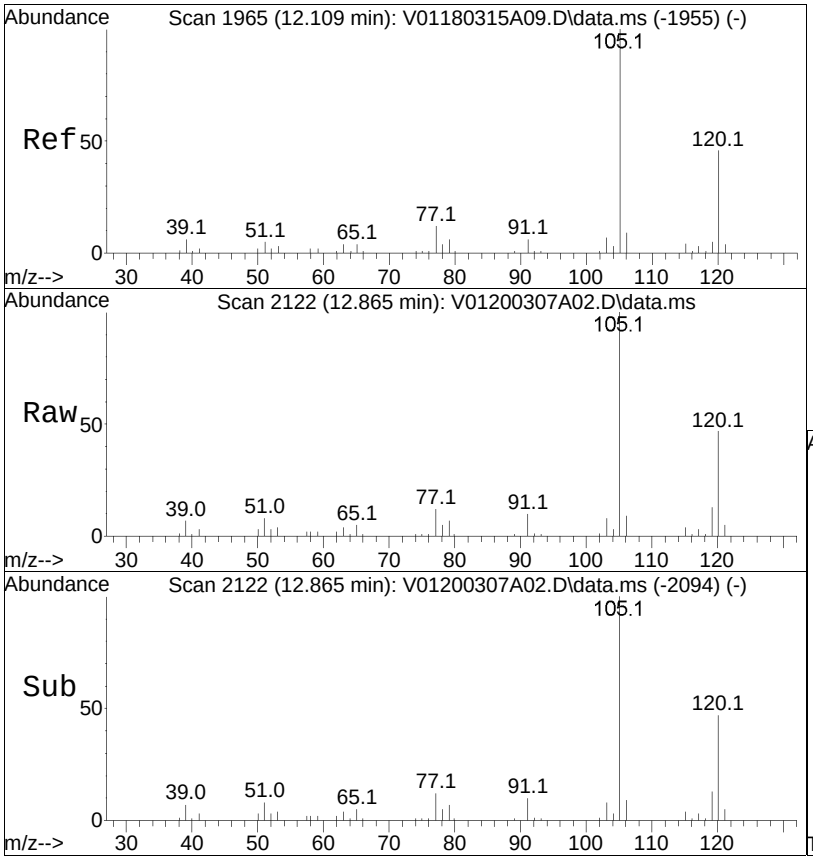


#94
tert-Butylbenzene
Concen: 11.11 ug/L
RT: 12.783 min Scan# 2107
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:119 Resp: 157389

Ion	Ratio	Lower	Upper
119	100		
91	63.0	52.5	78.7
134	24.8	20.9	31.3

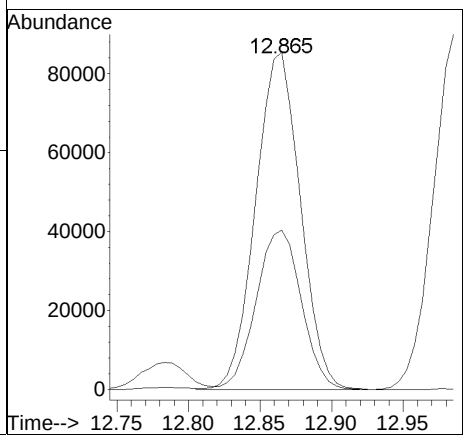


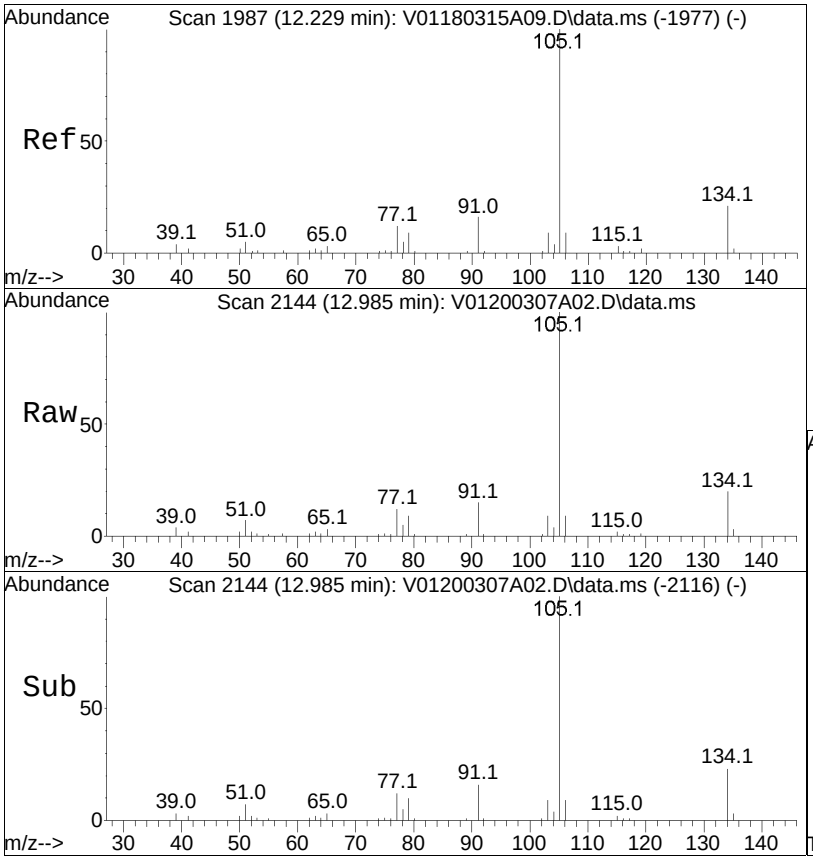


#97
1,2,4-Trimethylbenzene
Concen: 11.23 ug/L
RT: 12.865 min Scan# 2122
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:105 Resp: 185451

Ion	Ratio	Lower	Upper
105	100		
120	47.8	37.8	56.6

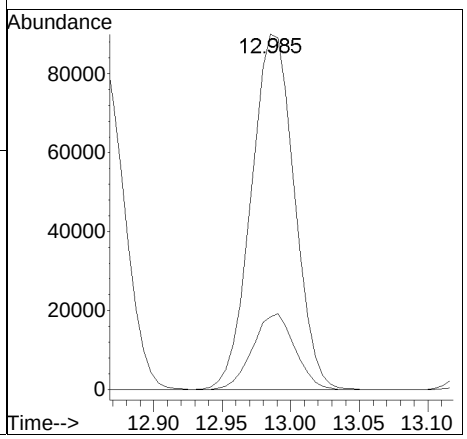


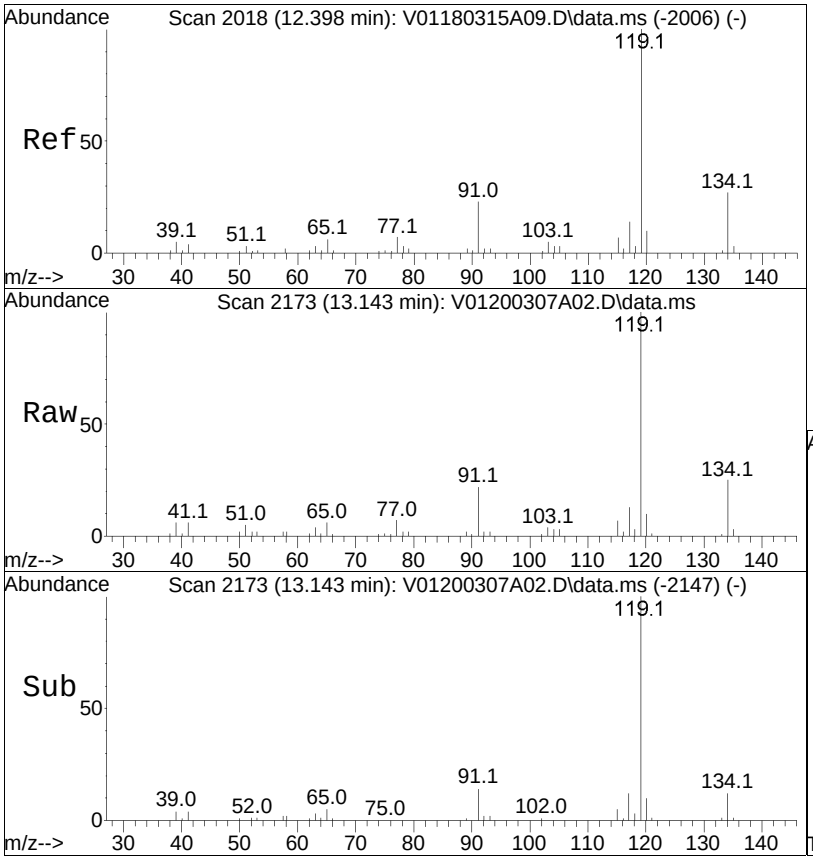


#98
sec-Butylbenzene
Concen: 11.16 ug/L
RT: 12.985 min Scan# 2144
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:105 Resp: 197049

Ion	Ratio	Lower	Upper
105	100		
134	20.8	14.0	29.0

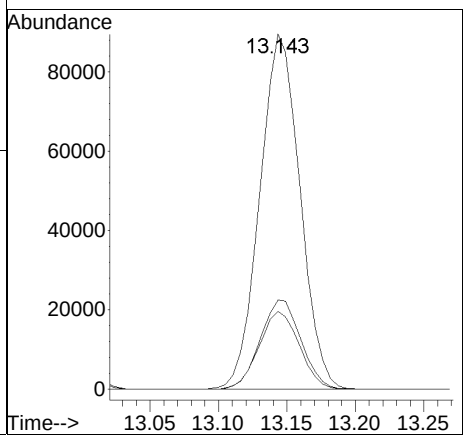


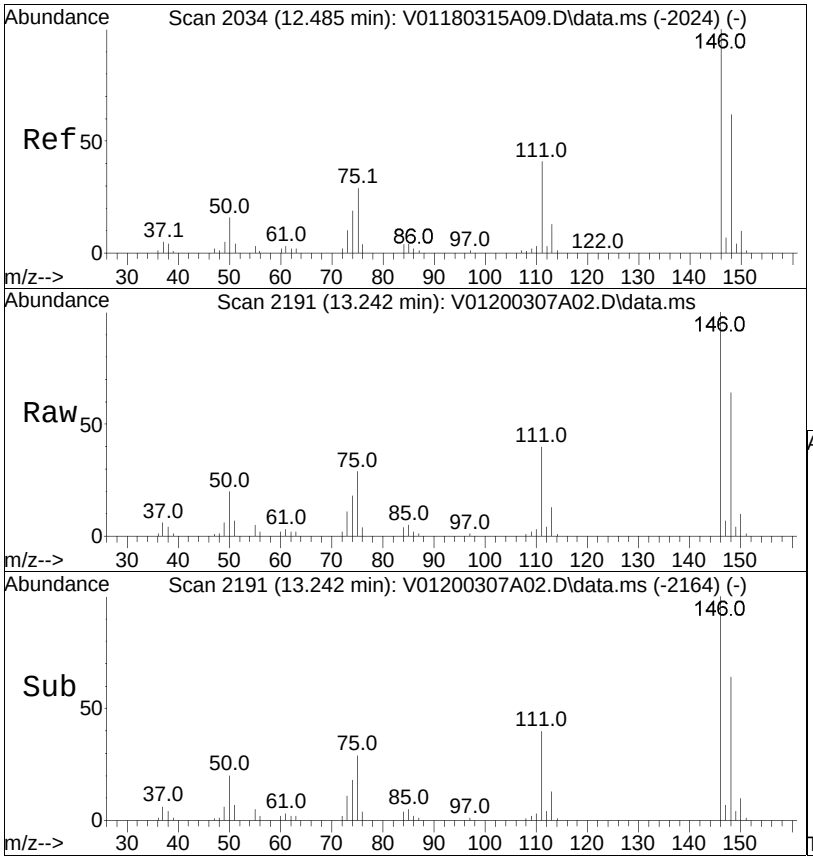


#99
p-Isopropyltoluene
Concen: 11.20 ug/L
RT: 13.143 min Scan# 2173
Delta R.T. -0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:119 Resp: 182951

Ion	Ratio	Lower	Upper
119	100		
134	25.5	17.7	36.7
91	22.0	15.4	32.0

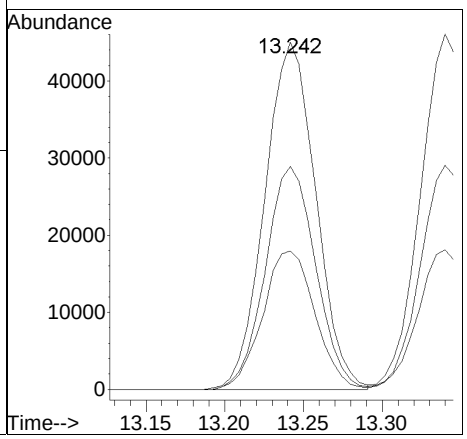


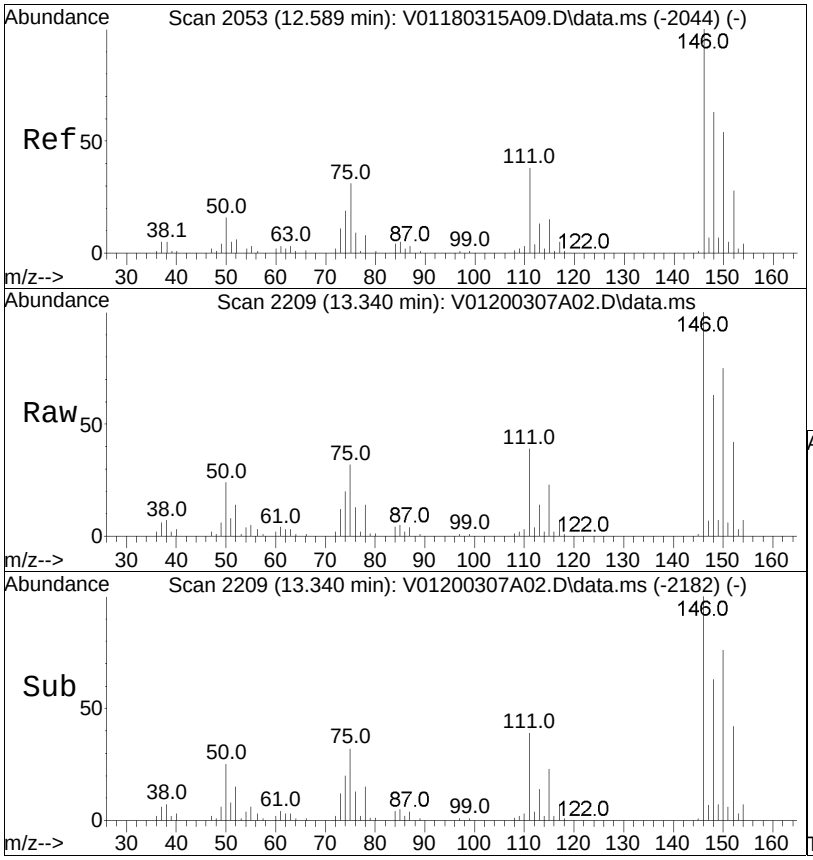


#100
1,3-Dichlorobenzene
Concen: 11.25 ug/L
RT: 13.242 min Scan# 2191
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:146 Resp: 101356

Ion	Ratio	Lower	Upper
146	100		
111	41.0	25.9	53.9
148	63.5	41.5	86.3

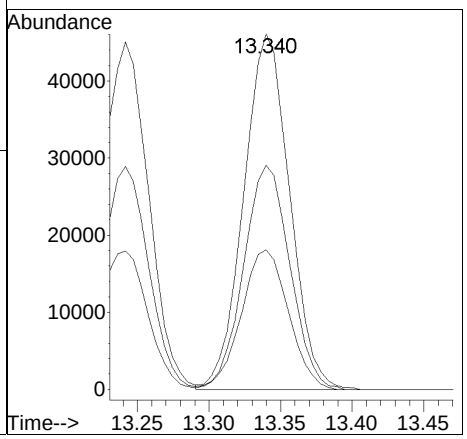


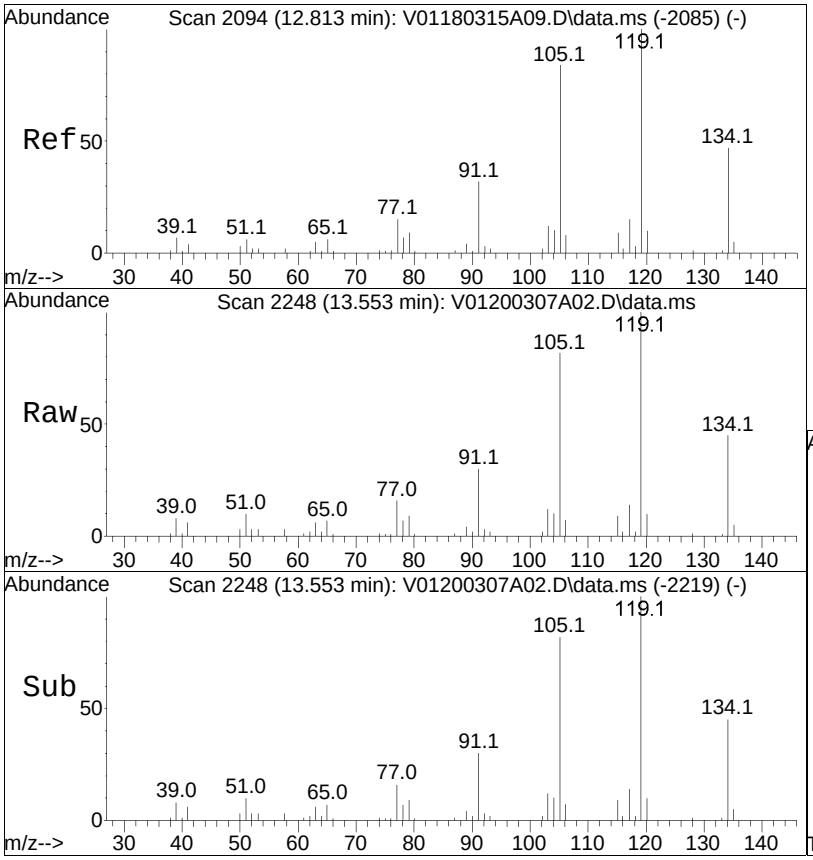


#101
1,4-Dichlorobenzene
Concen: 11.26 ug/L
RT: 13.340 min Scan# 2209
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:146 Resp: 102807

Ion	Ratio	Lower	Upper
146	100		
111	40.3	31.7	47.5
148	63.7	51.5	77.3

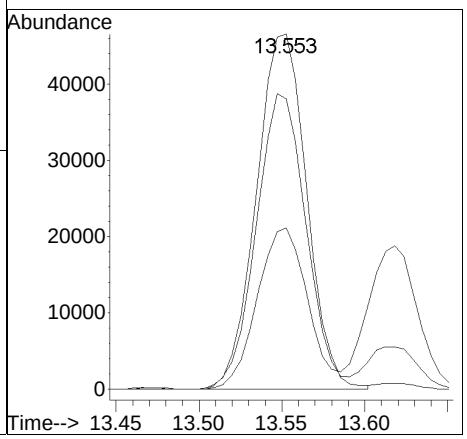


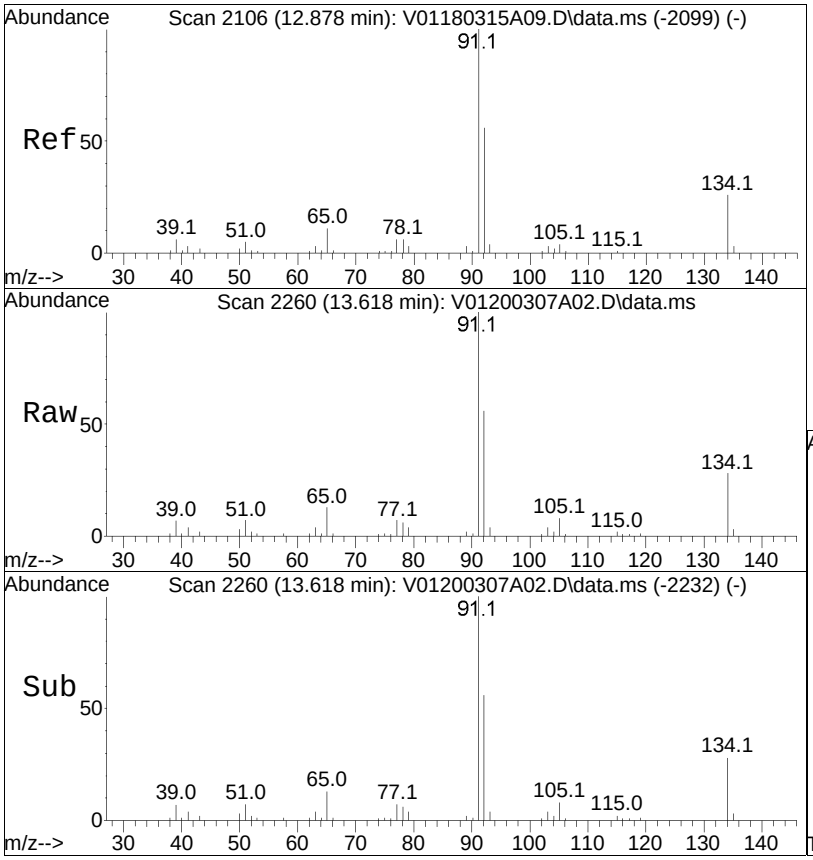


#102
p-Diethylbenzene
Concen: 11.25 ug/L
RT: 13.553 min Scan# 2248
Delta R.T. 0.006 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:119 Resp: 98475

Ion	Ratio	Lower	Upper
119	100		
105	82.5	54.1	112.3
134	45.6	31.5	65.3

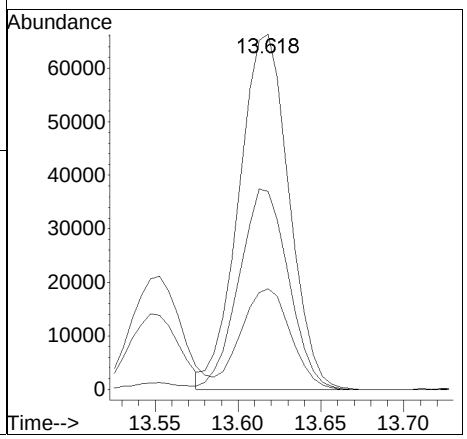


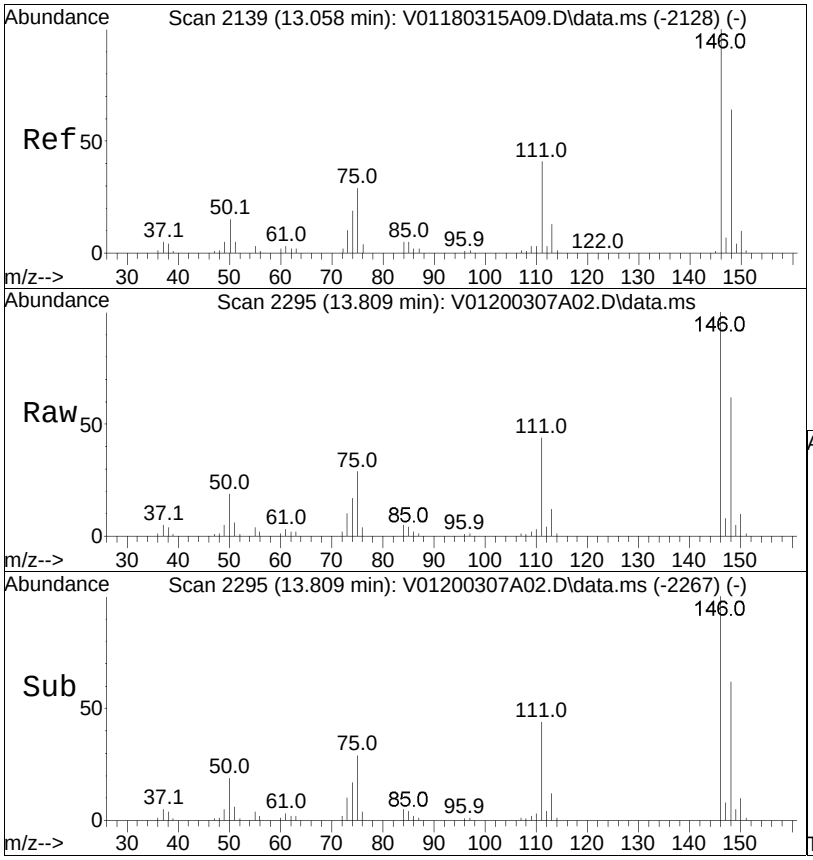


#103
n-Butylbenzene
Concen: 11.53 ug/L
RT: 13.618 min Scan# 2260
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion: 91 Resp: 139556

Ion	Ratio	Lower	Upper
91	100		
92	55.7	43.7	65.5
134	27.9	22.1	33.1

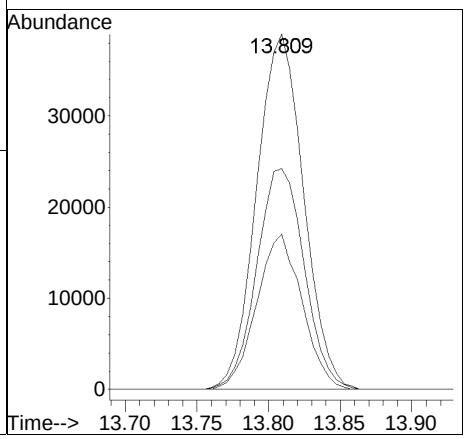


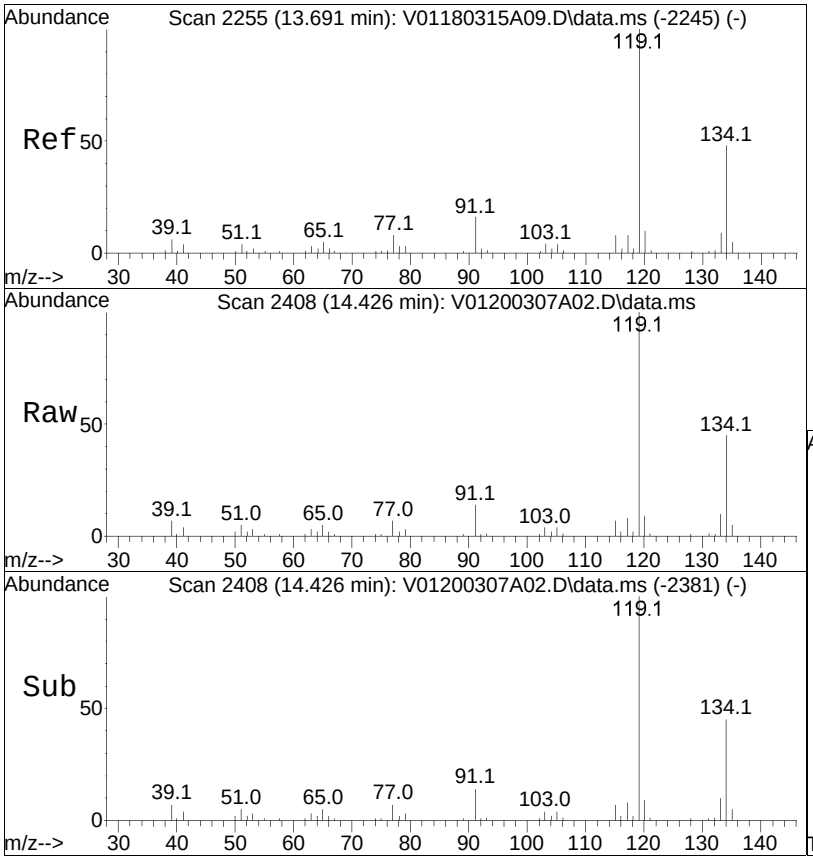


#104
1,2-Dichlorobenzene
Concen: 11.22 ug/L
RT: 13.809 min Scan# 2295
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:146 Resp: 89028

Ion	Ratio	Lower	Upper
146	100		
111	42.3	26.8	55.8
148	62.9	41.6	86.4

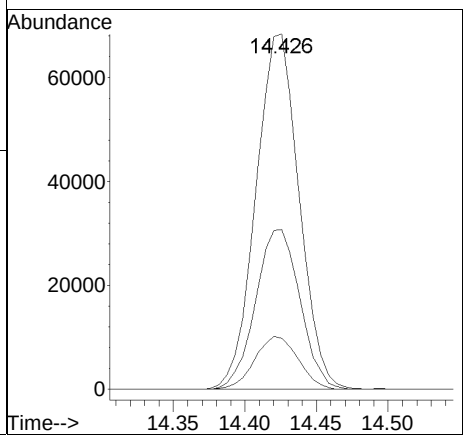


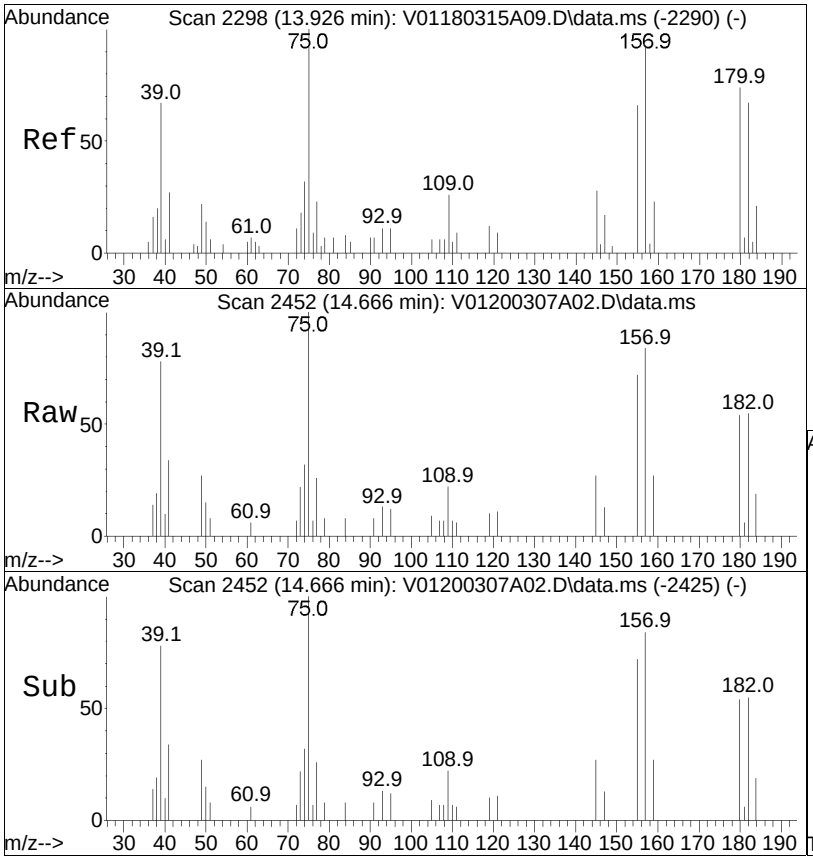


#105
1,2,4,5-Tetramethylbenzene
Concen: 10.87 ug/L
RT: 14.426 min Scan# 2408
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:119 Resp: 143342

Ion	Ratio	Lower	Upper
119	100		
134	46.3	31.9	66.1
91	15.0	10.3	21.5

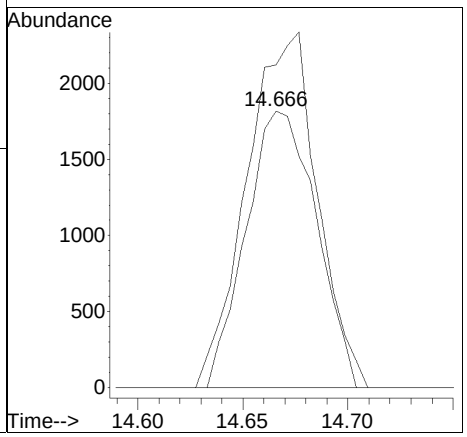


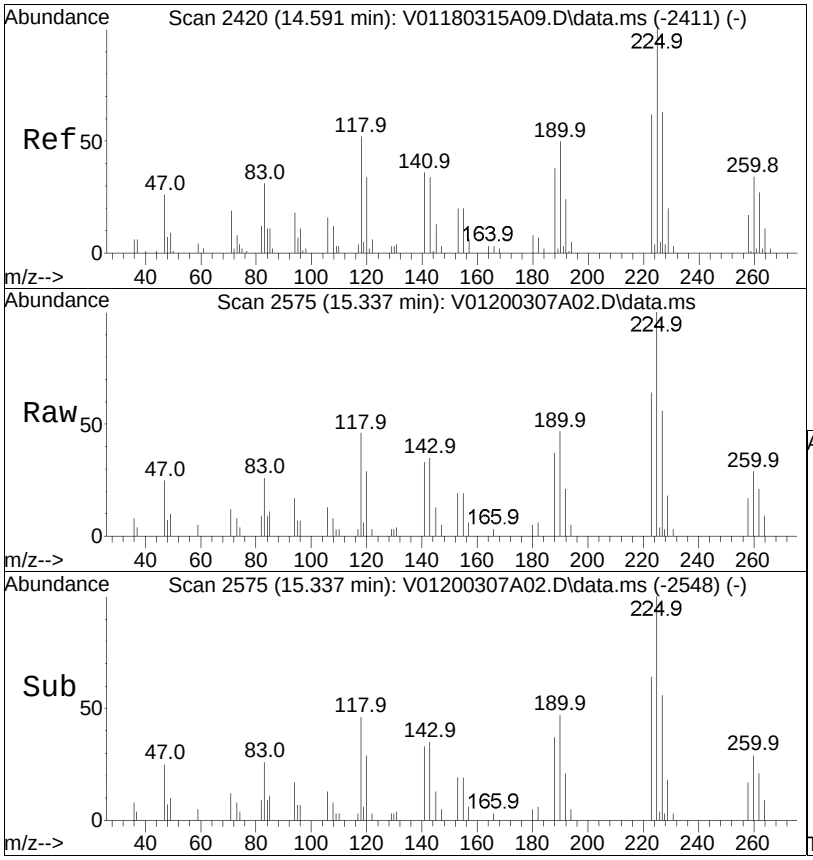


#106
1,2-Dibromo-3-chloropropane
Concen: 10.18 ug/L
RT: 14.666 min Scan# 2452
Delta R.T. -0.005 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:155 Resp: 4235

Ion	Ratio	Lower	Upper
155	100		
157	129.0	101.1	151.7

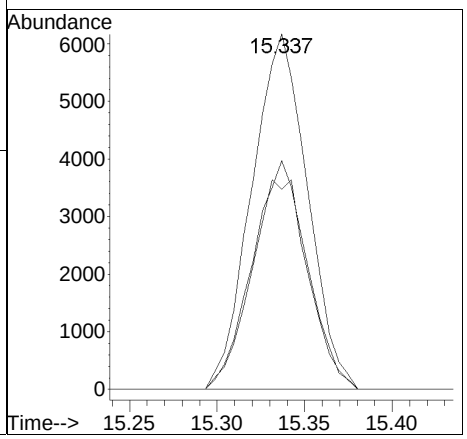


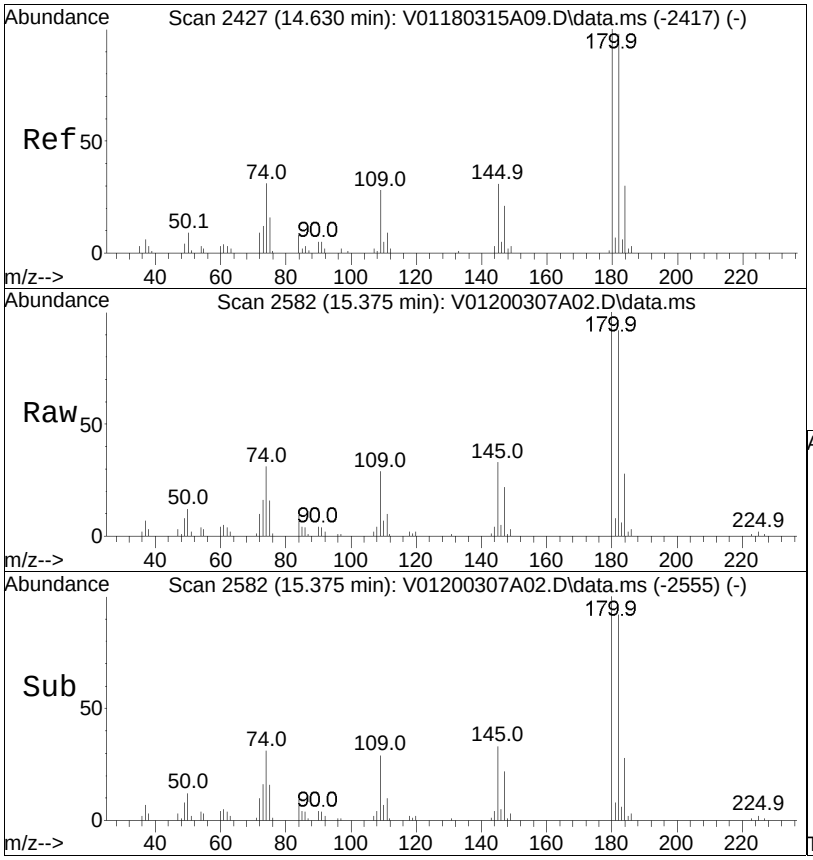


#108
Hexachlorobutadiene
Concen: 11.01 ug/L
RT: 15.337 min Scan# 2575
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:225 Resp: 13688

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.0	76.4
227	60.5	52.2	78.4

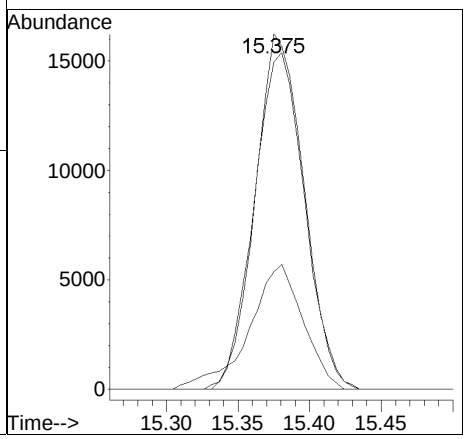


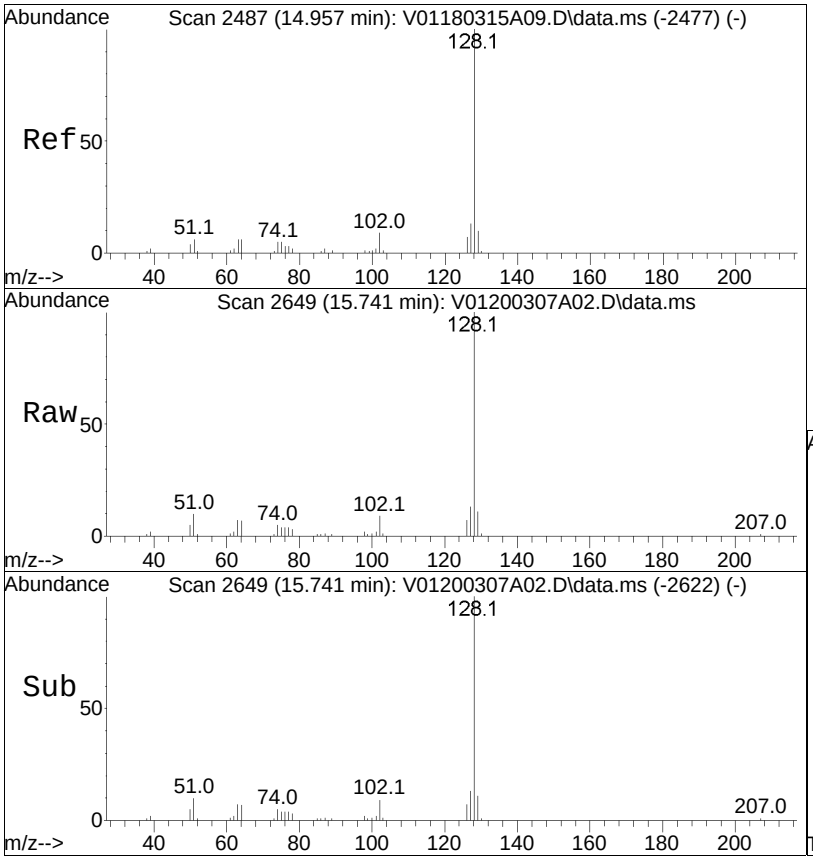


#109
1,2,4-Trichlorobenzene
Concen: 10.45 ug/L
RT: 15.375 min Scan# 2582
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:180 Resp: 39059

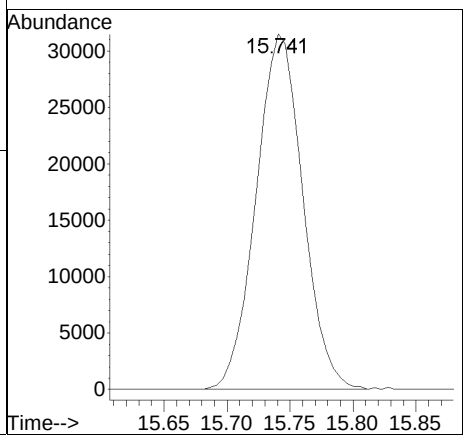
Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.8	113.8
145	38.5	26.1	39.1

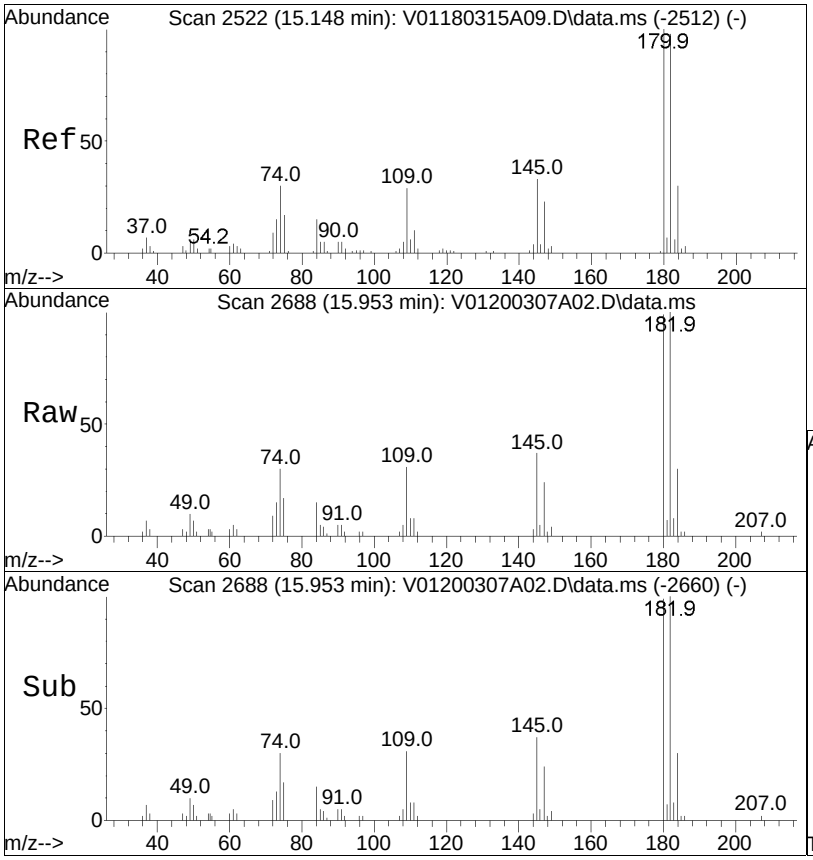




#110
Naphthalene
Concen: 9.82 ug/L
RT: 15.741 min Scan# 2649
Delta R.T. -0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:128 Resp: 81366

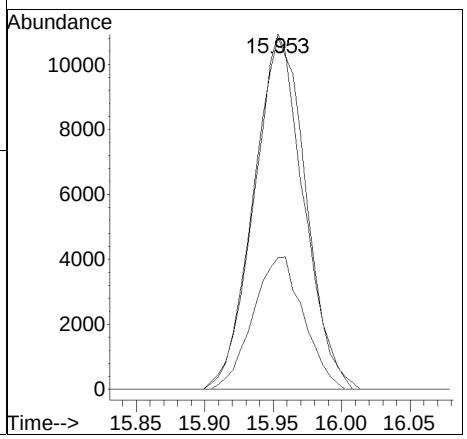




#111
1,2,3-Trichlorobenzene
Concen: 10.02 ug/L
RT: 15.953 min Scan# 2688
Delta R.T. 0.000 min
Lab File: V01200307A02.D
Acq: 7 Mar 2020 9:55 am

Tgt Ion:180 Resp: 28826

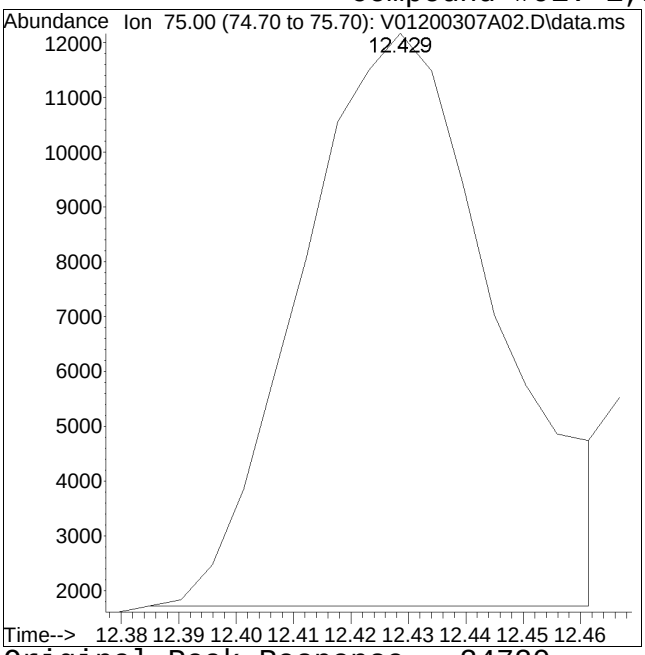
Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.4	113.0
145	36.4	25.0	37.6



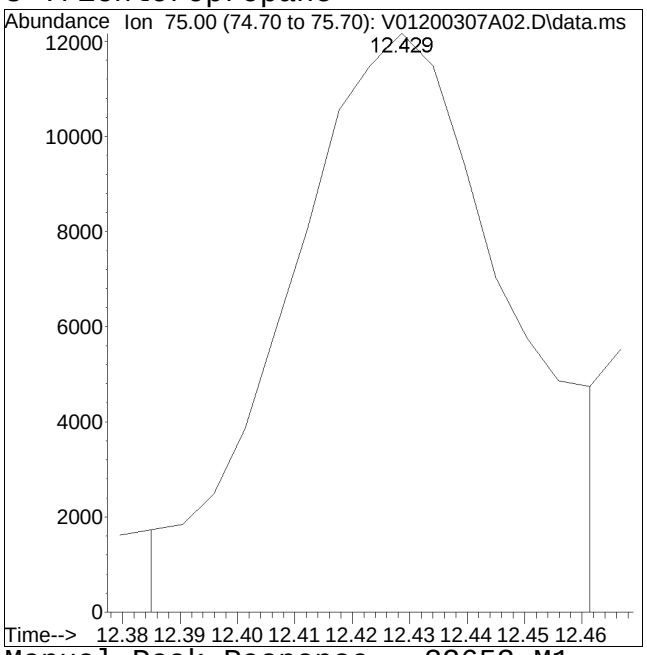
Manual Integration Report

Data Path : I:\VOLATILES\VOA101\2020\2QMethod : V101_200219A_8260.m
Data File : V01200307A02.D Operator : VOA101:MKS
Date Inj'd : 3/7/2020 9:55 am Instrument : VOA 101
Sample : WG1348564-4,31,10,10 Quant Date : 3/7/2020 10:18 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 24720



Manual Peak Response = 32653 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 10 2020, 12:59 pm

Work Group: WG1348135 for Department: 31 GC/MS - Volatiles

Created: 06-MAR-20 Due: Operator: PD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2009296-13	GW-2	S	NYTCL-8260-R2	WATER	DONE	U	0316	0309	S0	Vial-B
L2009753-09	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009760-04	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0317	0311	S0	Vial-B
L2009793-04	TB	S	NYTCL-8260	WATER	DONE	U	0317	0311	S0	Vial-B
L2009799-07	TB-01_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009807-04	MW-1	S	NYTCL-8260	WATER	DONE	U	0318	0310	S0	Vial-B
WG1348135-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1348135-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1348135-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1348135-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1348135-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1348135-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1348135-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1348135-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1348135-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1348135-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1348135-4 WG1348135-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 10 2020, 12:59 pm

Work Group: WG1348564 for Department: 31 GC/MS - Volatiles

Created: 08-MAR-20 Due: Operator: ajk

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2009739-07	VES-TW-01	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009739-08	VES-TW-02	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009739-09	VES-TW-03	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009739-10	VES-TW-04	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009739-11	VES-TW-05	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009793-01	MW-213	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009793-02	MW-214	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009799-01	MW-112_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009799-02	MW-118_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009799-03	MW-165_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009799-04	MW-166_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009799-05	MW-168_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009799-06	MW-169_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009801-01	MW-13	C	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009801-02	MW-12B	C	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009801-03	MW-4C	C	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009801-04	MW-4D	C	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009801-05	MW-3C	C	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009804-01	MW12_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
L2009804-02	MW13_030420	S	NYTCL-8260	WATER	DONE	U	0318	0311	S0	Vial-B
WG1348564-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1348564-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1348564-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1348564-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1348564-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1348564-4 WG1348564-3

Inst: VOA122 BFB: V7601 Method GC: 8260_WATER
Initials: JAL IS/SS: V7665 Autosampler: 8260WATER
Date: **12/19/19** ICAL: V7675,V7673B Concentrator: 8260
Run: **N** ICV: V7662,V7639,V7663,V7664,V7596,V7613 QC:___Seq:_____

Vial	Data File	Sample
1	V22191219NBF1	BFB TUNE
1	V22191219N01	BLK
2	V22191219N02	BLK
3	V22191219N03	I8260STDL0.2PPB
4	V22191219N04	I8260STDL0.5PPB
5	V22191219N05	I8260STDL0.5PPB
6	V22191219N06	I8260STDL2PPB
7	V22191219N07	I8260STDL2PPB
8	V22191219N08	I8260STDL10PPB
9	V22191219N09	I8260STDL30PPB
10	V22191219N10	I8260STDL80PPB
11	V22191219N11	I8260STDL120PPB
12	V22191219N12	I8260STDL200PPB
13	V22191219N13	BLK
14	V22191219N14	BLK
15	V22191219N15	BLK
16	V22191219N16	BLK
17	V22191219N17	C8260STDL10PPB
18	V22191219N18	C8260STDL10PPB
19	V22191219N19	BLK

Inst: VOA101
Initials: PD\KJD
Date: **02/19/20**
Run: **A**

BFB: V7683
IS/SS: V7748
ICAL: V7749,V7750B,V7693
ICV: V7722,V7724,V7737,V7738,V7751,V7694,V7691

Method
GC: 8260
Autosampler: 8260 liquid IS2
Concentrator: 8260water

QC:_____ Seq:_____

Vial	Data File	Sample
6	V01200219ABF6	BFB TUNE
1	V01200219A01	BLK
2	V01200219A02	BLK
3	V01200219A03	I8260STD0.15PPB
4	V01200219A04	I8260STD0.5PPB
5	V01200219A05	I8260STD0.5PPB
6	V01200219A06	I8260STD2.0PPB
7	V01200219A07	I8260STD2.0PPB
8	V01200219A08	I8260STD10PPB
9	V01200219A09	I8260STD30PPB
10	V01200219A10	I8260STD80PPB
11	V01200219A11	I8260STD120PPB
12	V01200219A12	I8260STD200PPB
13	V01200219A13	BLK
14	V01200219A14	BLK
15	V01200219A15	BLK
16	V01200219A16	BLK
17	V01200219A17	BLK
18	V01200219A18	I8260STD0.15PPB
19	V01200219A19	I8260STD0.5PPB
20	V01200219A20	C8260STD10PPB
21	V01200219A21	C8260STD10PPB
22	V01200219A22	BLK

Inst: VOA101 BFB: V7752 Method GC: 8260
Initials: MKS IS/SS: V7771 Autosampler: 8260 liquid IS2
Date: **03/07/20** ICAL: V7775,V7750D Concentrator: 8260water
Run: **A** ICV: V7722,V7724,V7737,V7738,V7751,V7694,V7691

QC:_____ Seq:_____

Vial	Data File	Sample		
1	V01200307ABF1	BFB TUNE		
1	V01200307A01	8260 CCAL LCS		
2	V01200307A02	8260 CCAL LCSD		
3	V01200307A03	8260 CCAL		
4	V01200307A04	BLK		
5	V01200307A05	BLK		
6	V01200307A06	METHOD BLK		
7	V01200307A07	I2009739-08,31,10,10,,a	NYTCL	pH<2
8	V01200307A08	I2009799-01,31,10,10,,a	NYTCL	pH<2
9	V01200307A09	I2009799-03,31,10,10,,a	NYTCL	pH<2
10	V01200307A10	I2009739-11,31,10,10,,a	NYTCL	pH<2
11	V01200307A11	I2009793-01,31,10,10,,a	NYTCL+15	pH<2
12	V01200307A12	I2009793-02,31,10,10,,a	NYTCL+15	pH<2
13	V01200307A13	I2009801-01,31,10,10,,a	NYCURVE/IM	pH<2
14	V01200307A14	I2009801-02,31,10,10,,a	NYCURVE/IM	pH<2
15	V01200307A15	I2009801-03,31,10,10,,a	NYCURVE/IM	pH<2
16	V01200307A16	I2009801-04,31,10,10,,a	NYCURVE/IM	pH<2
17	V01200307A17	I2009801-05,31,10,10,,a	NYCURVE/IM	pH<2
18	V01200307A18	I2009804-01,31,10,10,,a	NYTCL	pH<2
19	V01200307A19	I2009804-02,31,10,10,,a	NYTCL	pH<2
20	V01200307A20	I2009739-09,31,10,10,,a	NYTCL	pH<2
21	V01200307A21	I2009739-10,31,10,10,,a	NYTCL	pH<2
22	V01200307A22	I2009799-02D,31,2,10,,a	NYTCL FOAM	pH>2
23	V01200307A23	I2009799-04,31,10,10,,a	NYTCL	pH<2
24	V01200307A24	I2009799-05D,31,4,10,,a	NYTCL FOAM	pH<2
25	V01200307A25	I2009799-06D,31,4,10,,a	NYTCL FOAM	pH<2
26	V01200307A26	I2009739-07D,31,2.5,10,,a	NYTCL	pH<2

Inst: VOA122 BFB: V7752 Method GC: 8260_WATER
Initials: PD IS/SS: V7771 Autosampler: 8260WATER
Date: **03/06/20** ICAL: V7775,V7711F Concentrator: 8260
Run: **A** ICV: V7662,V7639,V7663,V7664,V7596,V7613 QC:___Seq:_____

Vial	Data File	Sample			
1	V22200306ABF1	BFB TUNE 09:33			
1	V22200306A01	8260 CCAL LCS			
2	V22200306A02	8260 CCAL LCSD			
3	V22200306A03	8260 CCAL			
4	V22200306A04	BLK			
5	V22200306A05	METHOD BLK			
6	V22200306A06	I2009807-04,31,10,10,,a	NYTCL		pH<2
7	V22200306A07	I2009296-13D,31,5,10,,c	NYCURVE	VERY OILY	pH<2
8	V22200306A08	I2008917-05,31,10,10,,a	8260		pH<2
9	V22200306A09	I2008917-16,31,10,10,,a	8260		pH<2
10	V22200306A10	I2008917-10D,31,4,10,,a	8260		pH<2
11	V22200306A11	I2009823-09,31,10,10,,a	8260/BTEX,VC	FB	pH<2
12	V22200306A12	I2009823-10,31,10,10,,a	8260/BTEX,VC	TB	pH<2
13	V22200306A13	I2009753-09,31,10,10,,a	NYTCL	TB	pH<2
14	V22200306A14	I2009760-04,31,10,10,,a	NYTCL	TB	pH<2
15	V22200306A15	I2009793-04,31,10,10,,a	NYTCL/15	TB	pH<2
16	V22200306A16	I2009799-07,31,10,10,,a	NYTCL	TB	pH<2
17	V22200306A17	I2009721-01,31,10,10,,a	NJ/15		pH<2
18	V22200306A18	I2009721-02,31,10,10,,a	NJ/15		pH<2
19	V22200306A19	I2009721-03,31,10,10,,a	NJ/15		pH<2
20	V22200306A20	I2009721-04,31,10,10,,a	NJ/15		pH<2
21	V22200306A21	I2009713-12,31,10,10,,a	8260		pH>2
22	V22200306A22	I2009713-01,31,10,10,,a	8260		pH<2
23	V22200306A23	I2009713-08,31,10,10,,a	8260		pH>2
24	V22200306A24	I2009713-11,31,10,10,,a	8260		pH>2
25	V22200306A25	I2009713-08MS,31,10,10,,a1	8260		pH>2
26	V22200306A26	I2009713-08MSD,31,10,10,,a2	8260		pH>2
27	V22200306A27	I2009713-11MS,31,10,10,,a1	8260		pH>2
28	V22200306A28	I2009713-11MSD,31,10,10,,a2	8260		pH>2

PFAAs

Semivolatiles QC Summary

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Soils Engineering Services, Inc.
Project Name: GROSSINGERS

Lab Number: L2009793
Project Number: 9313
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
MW-213 (L2009793-01)	99	90	91	72	84	98	99
MW-214 (L2009793-02)	92	82	82	66	78	87	89
FB (L2009793-03)	101	116	111	93	104	127	99
WG1347919-1BLANK	108	124	106	107	107	112	112
WG1347919-2LCS	101	115	103	97	98	111	102
WG1347919-3LCSD	101	114	103	99	100	112	104
MW-213MS	89	80	82	66	78	86	85
MW-214DUP	86	77	71	61	73	83	84

QC LIMITS

(2-156)	S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(16-173)	S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(31-159)	S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(21-145)	S4 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(30-139)	S5 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(47-153)	S6 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)
(47-153)	S7 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)

*** Values outside of QC limits**

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Soils Engineering Services, Inc.
Project Name: GROSSINGERS

Lab Number: L2009793
Project Number: 9313
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
MW-213 (L2009793-01)	273*	105	99	96	179*	106	98
MW-214 (L2009793-02)	241	97	84	84	155	95	85
FB (L2009793-03)	154	101	110	92	117	101	104
WG1347919-1BLANK	115	115	112	107	123	106	117
WG1347919-2LCS	127	106	105	101	143	99	108
WG1347919-3LCSD	128	109	112	101	133	94	111
MW-213MS	238	94	90	79	141	90	83
MW-214DUP	228	95	79	76	136	96	84

QC LIMITS

(1-244) S8 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(34-146) S9 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(42-146) S10 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(38-144) S11 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(7-170) S12 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(1-181) S13 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)
(1-181) S14 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)

*** Values outside of QC limits**

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Soils Engineering Services, Inc.
Project Name: GROSSINGERS

Lab Number: L2009793
Project Number: 9313
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()	TOT OUT
MW-213 (L2009793-01)	37	96	84	80	--	--	--	2
MW-214 (L2009793-02)	26	89	82	69	--	--	--	0
FB (L2009793-03)	58	96	97	87	--	--	--	0
WG1347919-1BLANK	61	92	105	99	--	--	--	0
WG1347919-2LCS	50	89	100	92	--	--	--	0
WG1347919-3LCSD	53	86	96	92	--	--	--	0
MW-213MS	35	82	73	65	--	--	--	0
MW-214DUP	24	90	73	68	--	--	--	0

QC LIMITS

(1-87) **S15 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)**
(23-146) **S16 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)**
(24-161) **S17 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)**
(33-143) **S18 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)**

*** Values outside of QC limits**

Lab Duplicate Sample Summary
Form 3
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Client Sample ID	: MW-214	**Matrix**	: WATER
Lab Sample ID	: L2009793-02	**Analysis Date**	: 03/09/20 15:40
Lab File ID	: I19079	**DUP File ID**	: I19080
Dup Sample ID	: WG1347919-5	**DUP Analysis Date**	: 03/09/20 15:56

Parameter	Sample Concentration (ng/l)	Duplicate Concentration (ng/l)	RPD	RPD Limit
Perfluorobutanoic Acid (PFBA)	10.9	11.4	4	30
Perfluoropentanoic Acid (PFPeA)	5.47	5.82	6	30
Perfluorobutanesulfonic Acid (PFBS)	3.88	4.27	10	30
Perfluorohexanoic Acid (PFHxA)	8.26	8.97	8	30
Perfluoroheptanoic Acid (PFHpA)	6.07	5.86	4	30
Perfluorohexanesulfonic Acid (PFHxS)	8.26	7.64	8	30
Perfluorooctanoic Acid (PFOA)	29.9	31.2	4	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	NC	30
Perfluoroheptanesulfonic Acid (PFHpS)	1.64J	ND	NC	30
Perfluorononanoic Acid (PFNA)	1.08J	1.06J	NC	30
Perfluorooctanesulfonic Acid (PFOS)	47.3	42.9	10	30
Perfluorodecanoic Acid (PFDA)	0.849J	0.538J	NC	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	NC	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	NC	30
Perfluoroundecanoic Acid (PFUnA)	0.260J	ND	NC	30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	NC	30
Perfluorooctanesulfonamide (FOSA)	ND	0.785J	NC	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	NC	30
Perfluorododecanoic Acid (PFDoA)	ND	ND	NC	30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	NC	30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	NC	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Matrix	: WATER		
LCS Sample ID	: WG1347919-2	**Analysis Date** : 03/11/20 02:54	**File ID** : I20455
LCSD Sample ID	: WG1347919-3	**Analysis Date** : 03/11/20 03:10	**File ID** : I20456

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	40	35.3	88	40	34.4	86	2	67-148	30
Perfluoropentanoic Acid (PFPeA)	40	36.6	92	40	36.2	91	1	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	35.4	31.7	89	35.4	30.3	86	3	65-157	30
Perfluorohexanoic Acid (PFHxA)	40	35.2	88	40	34.0	85	3	69-168	30
Perfluoroheptanoic Acid (PFHpA)	40	36.4	91	40	34.3	86	6	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	36.5	32.1	88	36.5	29.0	80	10	69-177	30
Perfluorooctanoic Acid (PFOA)	40	36.3	91	40	34.8	87	4	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	38	38.4	101	38	36.1	95	6	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	38	35.7	94	38	33.2	87	8	61-179	30
Perfluorononanoic Acid (PFNA)	40	35.8	90	40	34.6	87	3	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	37	33.3	90	37	30.3	82	9	52-151	30
Perfluorodecanoic Acid (PFDA)	40	35.9	90	40	34.5	86	5	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	38.4	37.2	97	38.4	37.1	96	1	56-173	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Matrix	: WATER		
LCS Sample ID	: WG1347919-2	**Analysis Date** : 03/11/20 02:54	**File ID** : I20455
LCSD Sample ID	: WG1347919-3	**Analysis Date** : 03/11/20 03:10	**File ID** : I20456

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	40	40.1	100	40	40.5	101	1	60-166	30
Perfluoroundecanoic Acid (PFUnA)	40	35.7	89	40	33.7	84	6	60-153	30
Perfluorodecanesulfonic Acid (PFDS)	38.6	37.1	96	38.6	33.9	88	9	38-156	30
Perfluorooctanesulfonamide (FOSA)	40	37.8	95	40	34.7	87	9	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	40	34.1	85	40	36.6	92	8	45-170	30
Perfluorododecanoic Acid (PFDoA)	40	36.5	91	40	36.1	90	1	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	40	40.2	100	40	40.9	102	2	48-158	30
Perfluorotetradecanoic Acid (PFTA)	40	36.9	92	40	36.3	91	1	59-182	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Client Sample ID	: MW-213	**Matrix**	: WATER
Lab Sample ID	: L2009793-01	**Analysis Date**	: 03/09/20 15:23
Matrix Spike	: WG1347919-4	**MS Analysis Date**	: 03/09/20 16:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ng/l)**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Perfluorobutanoic Acid (PFBA)	12.8	39.7	55.3	107					67-148	30
Perfluoropentanoic Acid (PFPeA)	9.00	39.7	51.8	108					63-161	30
Perfluorobutanesulfonic Acid (PFBS)	2.97	35.2	40.0	105					65-157	30
Perfluorohexanoic Acid (PFHxA)	11.0	39.7	53.3	107					69-168	30
Perfluoroheptanoic Acid (PFHpA)	8.10	39.7	47.4	99					58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	5.37	36.2	45.8	112					69-177	30
Perfluorooctanoic Acid (PFOA)	32.8	39.7	74.8	106					63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	37.7	40.4	107					49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	1.06J	37.7	48.5	129					61-179	30
Perfluorononanoic Acid (PFNA)	3.45	39.7	43.5	101					68-171	30
Perfluorooctanesulfonic Acid (PFOS)	73.4	36.7	113	108					52-151	30
Perfluorodecanoic Acid (PFDA)	1.88J	39.7	41.3	104					63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	38.1	48.5	127					56-173	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	39.7	42.1	106					60-166	30
Perfluoroundecanoic Acid (PFUnA)	ND	39.7	37.2	94					60-153	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Client Sample ID	: MW-213	**Matrix**	: WATER
Lab Sample ID	: L2009793-01	**Analysis Date**	: 03/09/20 15:23
Matrix Spike	: WG1347919-4	**MS Analysis Date**	: 03/09/20 16:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ng/l)**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Perfluorodecanesulfonic Acid (PFDS)	ND	38.3	44.9	117					38-156	30
Perfluorooctanesulfonamide (FOSA)	1.42J	39.7	42.8	108					46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.19J	39.7	42.5	107					45-170	30
Perfluorododecanoic Acid (PFDoA)	ND	39.7	42.3	107					67-153	30
Perfluorotridecanoic Acid (PFTrDA)	ND	39.7	44.5	112					48-158	30
Perfluorotetradecanoic Acid (PFTA)	ND	39.7	44.3	112					59-182	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab Sample ID	: WG1347919-1	**Lab File ID**	: I20436
Instrument ID	: LCMS02	**Extraction Date**	: 03/06/20
Matrix	: WATER	**Analysis Date**	: 03/10/20 21:37
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
MW-213	L2009793-01	03/09/20 15:23
MW-214	L2009793-02	03/09/20 15:40
MW-214DUP	WG1347919-5	03/09/20 15:56
MW-213MS	WG1347919-4	03/09/20 16:46
FB	L2009793-03	03/09/20 17:36
WG1347919-2LCS	WG1347919-2	03/11/20 02:54
WG1347919-3LCSD	WG1347919-3	03/11/20 03:10

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS01	**Analysis Date**	: 03/09/20 12:48
Sample No	: WG1348805-1	**Lab File ID**	: I19069

	M3PFBA		M2PFOA		M4PFOS	
	Area	RT	Area	RT	Area	RT
WG1348805-1	56400	2.21	132182	9.30	13777	10.09
Upper Limit	112800	2.71	264364	9.80	27554	10.59
Lower Limit	28200	1.71	66091	8.80	6889	9.59
Sample ID						
WG1348805-1 CCAL	56400	2.21	132182	9.30	13777	10.09
MW-213	38622	2.19	104551	9.31	9808	10.10
MW-214	37569	2.19	103791	9.30	9912	10.10
MW-214 DUP	39483	2.19	107366	9.30	10843	10.10
MW-213 MS	41359	2.19	108960	9.29	10455	10.09

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS01	**Analysis Date**	: 03/09/20 12:48
Sample No	: WG1348805-1	**Lab File ID**	: I19069

	M2PFDA					
	Area	RT	Area	RT	Area	RT
WG1348805-1	115096	10.66				
Upper Limit	230192	11.16				
Lower Limit	57548	10.16				
Sample ID						
WG1348805-1 CCAL	115096	10.66				
MW-213	99222	10.68				
MW-214	100487	10.68				
MW-214 DUP	101287	10.67				
MW-213 MS	100653	10.67				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS01	**Analysis Date**	: 03/09/20 17:03
Sample No	: WG1348805-2	**Lab File ID**	: I19084

	M3PFBA		M2PFOA		M4PFOS	
	Area	RT	Area	RT	Area	RT
WG1348805-2	48546	2.21	126646	9.30	13369	10.09
Upper Limit	97092	2.71	253292	9.80	26738	10.59
Lower Limit	24273	1.71	63323	8.80	6685	9.59
Sample ID						
FB	40588	2.21	106296	9.30	9500	10.09

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS01	**Analysis Date**	: 03/09/20 17:03
Sample No	: WG1348805-2	**Lab File ID**	: I19084

	M2PFDA					
	Area	RT	Area	RT	Area	RT
WG1348805-2	107899	10.67				
Upper Limit	215798	11.17				
Lower Limit	53950	10.17				
Sample ID						
FB	94654	10.67				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS02	**Analysis Date**	: 03/10/20 10:15
Sample No	: WG1348954-1	**Lab File ID**	: I20398

	M3PFBA		M2PFOA		M4PFOS	
	Area	RT	Area	RT	Area	RT
WG1348954-1	50181	2.20	122363	9.01	8804	9.82
Upper Limit	100362	2.70	244726	9.51	17608	10.32
Lower Limit	25091	1.70	61182	8.51	4402	9.32
Sample ID						
WG1348954-1 CCAL	50181	2.20	122363	9.01	8804	9.82

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS02	**Analysis Date**	: 03/10/20 10:15
Sample No	: WG1348954-1	**Lab File ID**	: I20398

	M2PFDA					
	Area	RT	Area	RT	Area	RT
WG1348954-1	116641	10.40				
Upper Limit	233282	10.90				
Lower Limit	58321	9.90				
Sample ID						
WG1348954-1 CCAL	116641	10.40				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS02	**Analysis Date**	: 03/10/20 21:04
Sample No	: WG1348954-3	**Lab File ID**	: I20434

	M3PFBA		M2PFOA		M4PFOS	
	Area	RT	Area	RT	Area	RT
WG1348954-3	50678	2.18	132183	9.09	8684	9.89
Upper Limit	101356	2.68	264366	9.59	17368	10.39
Lower Limit	25339	1.68	66092	8.59	4342	9.39
Sample ID						
WG1348954-3 CCAL	50678	2.18	132183	9.09	8684	9.89
WG1347919-1 BLANK	50586	2.18	135568	9.07	8712	9.87

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS02	**Analysis Date**	: 03/10/20 21:04
Sample No	: WG1348954-3	**Lab File ID**	: I20434

	M2PFDA					
	Area	RT	Area	RT	Area	RT
WG1348954-3	123646	10.49				
Upper Limit	247292	10.99				
Lower Limit	61823	9.99				
Sample ID						
WG1348954-3 CCAL	123646	10.49				
WG1347919-1 BLANK	124385	10.46				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS02	**Analysis Date**	: 03/10/20 23:50
Sample No	: WG1348954-4	**Lab File ID**	: I20444

	M3PFBA		M2PFOA		M4PFOS	
	Area	RT	Area	RT	Area	RT
WG1348954-4	50692	2.18	128707	9.07	7917	9.87
Upper Limit	101384	2.68	257414	9.57	15834	10.37
Lower Limit	25346	1.68	64354	8.57	3959	9.37
Sample ID						
WG1347919-2 LCS	55060	2.18	146720	9.04	8701	9.84
WG1347919-3 LCSD	56014	2.18	146724	9.06	8947	9.86

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Instrument ID	: LCMS02	**Analysis Date**	: 03/10/20 23:50
Sample No	: WG1348954-4	**Lab File ID**	: I20444

	M2PFDA					
	Area	RT	Area	RT	Area	RT
WG1348954-4	120268	10.46				
Upper Limit	240536	10.96				
Lower Limit	60134	9.96				
Sample ID						
WG1347919-2 LCS	133103	10.43				
WG1347919-3 LCSD	136498	10.45				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 05/20/19
Created By: Jason Hebert
File: PM6682-1
Page: 1

PFAAs via EPA 537(M)-Isotope Dilution (WATER)

Holding Time: 14 days
Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	2	0.408	ng/l	67-148	30	67-148	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.396	ng/l	63-161	30	63-161	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.238	ng/l	65-157	30	65-157	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NONE	2	0.452	ng/l	37-219	30	37-219	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.328	ng/l	69-168	30	69-168	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	2	0.2452	ng/l	52-156	30	52-156	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.2252	ng/l	58-159	30	58-159	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.376	ng/l	69-177	30	69-177	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.236	ng/l	63-159	30	63-159	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	1.332	ng/l	49-187	30	49-187	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.688	ng/l	61-179	30	61-179	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.312	ng/l	68-171	30	68-171	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.504	ng/l	52-151	30	52-151	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.304	ng/l	63-171	30	63-171	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	1.212	ng/l	56-173	30	56-173	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	2	1.12	ng/l	48-150	30	48-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	2	0.648	ng/l	60-166	30	60-166	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.26	ng/l	60-153	30	60-153	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.98	ng/l	38-156	30	38-156	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.58	ng/l	46-170	30	46-170	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.804	ng/l	45-170	30	45-170	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.372	ng/l	67-153	30	67-153	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.3272	ng/l	48-158	30	48-158	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.248	ng/l	59-182	30	59-182	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pr	13252-13-6	50	22.7	ng/l	50-150	30	50-150	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	2	0.336	ng/l	50-150	30	50-150	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	4	1.24	ng/l	50-150	30	50-150	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	4	1.148	ng/l	50-150	30	50-150	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	2	0.616	ng/l	50-150	30	50-150	30	30			
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	120226-60-0	5	2.02	ng/l	50-150	30	50-150	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF	756426-58-1	2	0.2768	ng/l	50-150	30	50-150	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl	763051-92-9	2	0.2932	ng/l	50-150	30	50-150	30	30			
PFOA/PFOS, Total		2	0.236	ng/l				30	30			
PFAS, Total (5)		2	0.2252	ng/l				30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*2-156*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*16-173*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*31-159*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-	*NONE*									*1-313*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*21-145*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*30-139*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*47-153*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*36-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

PFAAs via EPA 537(M)-Isotope Dilution (WATER)

Holding Time: 14 days
Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*1-244*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*34-146*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*42-146*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*38-144*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*7-170*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*1-181*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-144*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-87*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*23-146*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*24-161*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*33-143*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*50-150*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*50-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 05/20/19
Created By: Jason Hebert
File: PM6683-1
Page: 1

PFAAs via EPA 537(M)-Isotope Dilution (SOIL)

Holding Time: 28 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	1	0.0227	ng/g	71-135	30	71-135	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1	0.046	ng/g	69-132	30	69-132	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1	0.039	ng/g	72-128	30	72-128	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NONE	1	0.0645	ng/g	62-145	30	62-145	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	1	0.0525	ng/g	70-132	30	70-132	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1	0.0835	ng/g	73-123	30	73-123	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1	0.0451	ng/g	71-131	30	71-131	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1	0.0605	ng/g	67-130	30	67-130	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	1	0.0419	ng/g	69-133	30	69-133	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	1	0.1795	ng/g	64-140	30	64-140	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1	0.1365	ng/g	70-132	30	70-132	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	1	0.075	ng/g	72-129	30	72-129	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1	0.13	ng/g	68-136	30	68-136	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	1	0.067	ng/g	69-133	30	69-133	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	1	0.287	ng/g	65-137	30	65-137	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1	0.299	ng/g	69-125	30	69-125	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	1	0.2015	ng/g	63-144	30	63-144	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1	0.0468	ng/g	64-136	30	64-136	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1	0.153	ng/g	59-134	30	59-134	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	1	0.098	ng/g	67-137	30	67-137	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1	0.0845	ng/g	61-139	30	61-139	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	1	0.07	ng/g	69-135	30	69-135	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1	0.2045	ng/g	66-139	30	66-139	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1	0.054	ng/g	69-133	30	69-133	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pr	13252-13-6	10	3.81	ng/g	50-150	30	50-150	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	1	0.0413	ng/g	50-150	30	50-150	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	1	0.12	ng/g	50-150	30	50-150	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	1	0.171	ng/g	50-150	30	50-150	30	30			
PFOA/PFOS, Total		1	0.0419	ng/g				30	30			
PFAS, Total (5)		1	0.0419	ng/g				30	30			
Perfluoro[13C4]Butanoic Acid (M4PFBA)	*NONE*									*60-153*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*65-182*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*70-151*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*56-138*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*61-147*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*62-149*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*63-166*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*62-152*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*32-182*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*61-154*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*65-151*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*65-150*		

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Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

PFAAs via EPA 537(M)-Isotope Dilution (SOIL)

Holding Time: 28 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*25-186*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*45-137*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*64-158*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-125*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*42-136*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*56-148*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*26-160*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*50-150*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*50-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/09/20 15:23
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19078	**Analyst**	: JW
Sample Amount	: 261 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	12.8	1.92	0.391	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	9.00	1.92	0.379	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.97	1.92	0.228	
307-24-4	Perfluorohexanoic Acid (PFHxA)	11.0	1.92	0.314	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	8.10	1.92	0.216	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	5.37	1.92	0.360	
335-67-1	Perfluorooctanoic Acid (PFOA)	32.8	1.92	0.226	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.92	1.28	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.06	1.92	0.659	J
375-95-1	Perfluorononanoic Acid (PFNA)	3.45	1.92	0.299	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	73.4	1.92	0.483	
335-76-2	Perfluorodecanoic Acid (PFDA)	1.88	1.92	0.291	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.92	1.16	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.92	0.621	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.92	0.249	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.92	0.939	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.42	1.92	0.556	J
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.19	1.92	0.770	J

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-01	**Date Collected**	: 03/04/20 14:30
Client ID	: MW-213	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/09/20 15:23
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19078	**Analyst**	: JW
Sample Amount	: 261 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.92	0.356	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.92	0.313	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.92	0.238	U
NONE	PFOA/PFOS, Total	106	1.92	0.226	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/09/20 15:40
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19079	**Analyst**	: JW
Sample Amount	: 258 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	10.9	1.94	0.395	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	5.47	1.94	0.384	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	3.88	1.94	0.231	
307-24-4	Perfluorohexanoic Acid (PFHxA)	8.26	1.94	0.318	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	6.07	1.94	0.218	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	8.26	1.94	0.364	
335-67-1	Perfluorooctanoic Acid (PFOA)	29.9	1.94	0.229	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.94	1.29	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.64	1.94	0.667	J
375-95-1	Perfluorononanoic Acid (PFNA)	1.08	1.94	0.302	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	47.3	1.94	0.488	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.849	1.94	0.294	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.94	1.17	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.94	0.628	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.260	1.94	0.252	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.94	0.950	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.94	0.562	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.94	0.779	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-02	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/09/20 15:40
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19079	**Analyst**	: JW
Sample Amount	: 258 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.94	0.360	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.94	0.317	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.94	0.240	U
NONE	PFOA/PFOS, Total	77.2	1.94	0.229	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-03	**Date Collected**	: 03/04/20 15:00
Client ID	: FB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/09/20 17:36
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19086	**Analyst**	: JW
Sample Amount	: 268 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.86	0.380	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.396	1.86	0.369	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.86	0.222	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.366	1.86	0.306	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.86	0.210	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.86	0.351	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.86	0.220	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.86	1.24	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.86	0.642	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.86	0.291	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.86	0.470	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.86	0.284	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.86	1.13	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.86	0.604	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.86	0.242	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.86	0.914	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.86	0.541	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.86	0.750	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: L2009793-03	**Date Collected**	: 03/04/20 15:00
Client ID	: FB	**Date Received**	: 03/04/20
Sample Location	: LIBERTY, NY	**Date Analyzed**	: 03/09/20 17:36
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19086	**Analyst**	: JW
Sample Amount	: 268 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.86	0.347	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.86	0.305	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.86	0.231	U
NONE	PFOA/PFOS, Total	ND	1.86	0.220	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1347919-1	**Date Collected**	: NA
Client ID	: WG1347919-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/10/20 21:37
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I20436	**Analyst**	: RS
Sample Amount	: 250 g	**Instrument ID**	: LCMS02
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	2.00	0.408	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.00	0.396	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	2.00	0.238	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	2.00	0.328	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	2.00	0.225	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	0.376	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	2.00	0.236	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.00	1.33	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.00	0.688	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	2.00	0.312	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	0.504	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.00	0.304	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.00	1.21	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.00	0.648	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.00	0.260	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.00	0.980	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.00	0.580	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	2.00	0.804	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1347919-1	**Date Collected**	: NA
Client ID	: WG1347919-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/10/20 21:37
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I20436	**Analyst**	: RS
Sample Amount	: 250 g	**Instrument ID**	: LCMS02
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.00	0.372	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.00	0.327	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.00	0.248	U
NONE	PFOA/PFOS, Total	ND	2.00	0.236	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1347919-5	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214DUP	**Date Received**	: 03/04/20
Sample Location	:	**Date Analyzed**	: 03/09/20 15:56
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19080	**Analyst**	: JW
Sample Amount	: 251 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	11.4	1.99	0.406	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	5.82	1.99	0.394	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	4.27	1.99	0.237	
307-24-4	Perfluorohexanoic Acid (PFHxA)	8.97	1.99	0.327	
375-85-9	Perfluoroheptanoic Acid (PFHpA)	5.86	1.99	0.224	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	7.64	1.99	0.374	
335-67-1	Perfluorooctanoic Acid (PFOA)	31.2	1.99	0.235	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.99	1.33	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.99	0.685	U
375-95-1	Perfluorononanoic Acid (PFNA)	1.06	1.99	0.311	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	42.9	1.99	0.502	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.538	1.99	0.303	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.99	1.21	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.99	0.645	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.99	0.259	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.99	0.976	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.785	1.99	0.578	J
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.99	0.801	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793
Project Name	: GROSSINGERS	**Project Number**	: 9313
Lab ID	: WG1347919-5	**Date Collected**	: 03/04/20 10:30
Client ID	: MW-214DUP	**Date Received**	: 03/04/20
Sample Location	:	**Date Analyzed**	: 03/09/20 15:56
Sample Matrix	: WATER	**Date Extracted**	: 03/06/20
Analytical Method	: 134,LCMSMS-ID	**Dilution Factor**	: 1
Lab File ID	: I19080	**Analyst**	: JW
Sample Amount	: 251 g	**Instrument ID**	: LCMS01
Extraction Method	: ALPHA 23528	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.99	0.370	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.99	0.326	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.99	0.247	U

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

ID: L2009793-01
Name: I19078
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.19	212.926 > 169.111	10571		3.349		na	
2	M3PFBA	INT STD	2.19	215.926 > 172.122	38622		9.822		na	98.2
3	MPFBA	INT STD	2.20	216.926 > 172.137	43628		9.858		na	98.6
4	PFPeA	2706-90-3	5.16	262.926 > 219.002	8605	M4	2.349		na	
5	M5PFPEA	INT STD	5.16	267.989 > 223.081	52664		8.969		na	89.7
6	PFBS	375-73-5	5.83	298.926 > 79.923	747		0.775	2.29	NO	
7	M3PFBS	INT STD	5.83	301.989 > 80.254	10673		8.483		na	84.8
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	7.00	329.117 > 309.079	11285		17.215		na	172.2
10	PFHxA	307-24-4	7.09	312.989 > 269.028	14512		2.860	17.82	NO	
11	M5PFHxA	INT STD	7.09	317.989 > 273.045	61224		7.153		na	71.5
12	PFPeS	2706-91-4	7.40	348.926 > 80.251	427		0.429	4.19	YES	
13	PFHpA	375-85-9	8.36	362.926 > 319.014	16088	m4	2.114	5.64	NO	
14	M4PFHpA	INT STD	8.36	366.926 > 321.979	82985		8.357		na	83.6
15	br-PFHxS	355-46-4	8.28	398.904 > 79.915	166	M2	0.215		YES	
16	L-PFHxS	355-46-4	8.52	398.904 > 79.915	920		1.186	1.95	NO	
17	PFHxS	355-46-4		398.904 > 79.915	1086		1.401		na	
18	M3PFHxS	INT STD	8.52	401.926 > 80.317	10490		9.305		na	93.1
19	br-PFOA	335-67-1	9.08	412.989 > 368.9	10150	M5	1.192	25.12	NO	
20	L-PFOA	335-67-1	9.31	412.989 > 368.9	62699		7.370	8.34	NO	
21	M2PFOA	INT STD	9.31	415.032 > 369.968	104551		12.427		na	124.3
22	PFOA	335-67-1		412.989 > 368.9	72849		8.562		na	
23	M8PFOA	INT STD	9.31	420.989 > 375.979	98974		9.927		na	99.3
24	6:2FTS	27619-97-2	9.27	426.989 > 406.921	70		0.280	0.71	NO	
25	M2-6:2FTS	INT STD	9.26	428.989 > 408.917	10550		25.864		na	258.6
26	PFHpS	375-92-8	9.39	448.926 > 80.257	150		0.278	1.28	NO	
27	PFNA	375-95-1	10.05	462.989 > 418.931	6856		0.901	6.95	YES	
28	M9PFNA	INT STD	10.05	472.053 > 426.947	102266		10.492		na	104.9
29	br-PFOS	1763-23-1	9.86	498.968 > 79.918	4772	M5	5.685	4.29	NO	
30	L-PFOS	1763-23-1	10.10	498.968 > 79.918	7886		13.474	1.33	NO	
31	PFOS	1763-23-1		498.968 > 79.918	12657		19.159		na	
32	M4PFOS	INT STD	10.10	503.032 > 80.306	9808		11.547		na	115.5
33	M8PFOS	INT STD	10.10	507.053 > 80.294	10775		9.460		na	94.6
34	PFDA	335-76-2	10.68	513.053 > 468.906	3917	M4	0.490	7.53	NO	
35	M2PFDA	INT STD	10.68	515.053 > 469.934	99222		15.000		na	150.0
36	M6PFDA	INT STD	10.68	519.053 > 473.931	104279		9.552		na	95.5
37	8:2FTS	39108-34-4		527.032 > 507.079			ND		YES	
38	M2-8:2FTS	INT STD	10.67	529.053 > 508.945	4218		17.101		na	171.0
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

ID: L2009793-01
Name: I19078
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.06	573.096 > 418.987	15328		10.599		na	106.0
41	NMeFOSAA	2355-31-9	11.06	570.053 > 418.917	103	m5	0.112		YES	
42	PFUnA	2058-94-8	11.21	562.989 > 518.903	298		0.034		YES	
43	M7-PFUDA	INT STD	11.21	570.053 > 524.923	93876		9.786		na	97.9
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6	11.11	497.989 > 78.245	490		0.370		YES	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	16053		3.669		na	36.7
47	d5-NEtFOSAA	INT STD	11.35	589.117 > 418.929	10175		9.648		na	96.5
48	NEtFOSAA	2991-50-6	11.35	583.989 > 418.927	270	m5	0.311	7.88	YES	
49	PFDoA	307-55-1	11.69	612.989 > 568.967	122		0.016		YES	
50	MPFDOA	INT STD	11.68	614.989 > 569.92	86775		8.414		na	84.1
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.44	715.053 > 669.945	92776		7.981		na	79.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
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Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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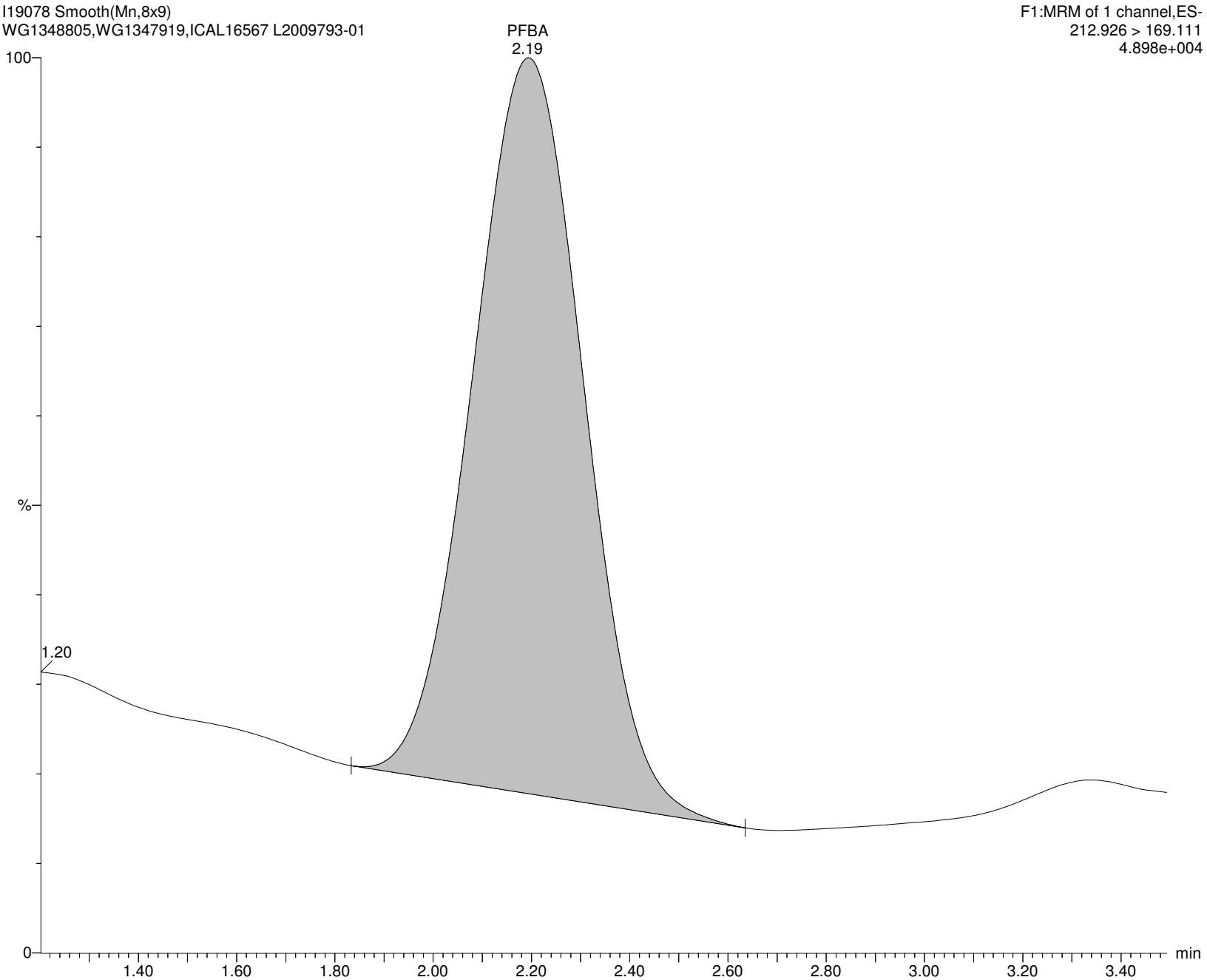
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
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User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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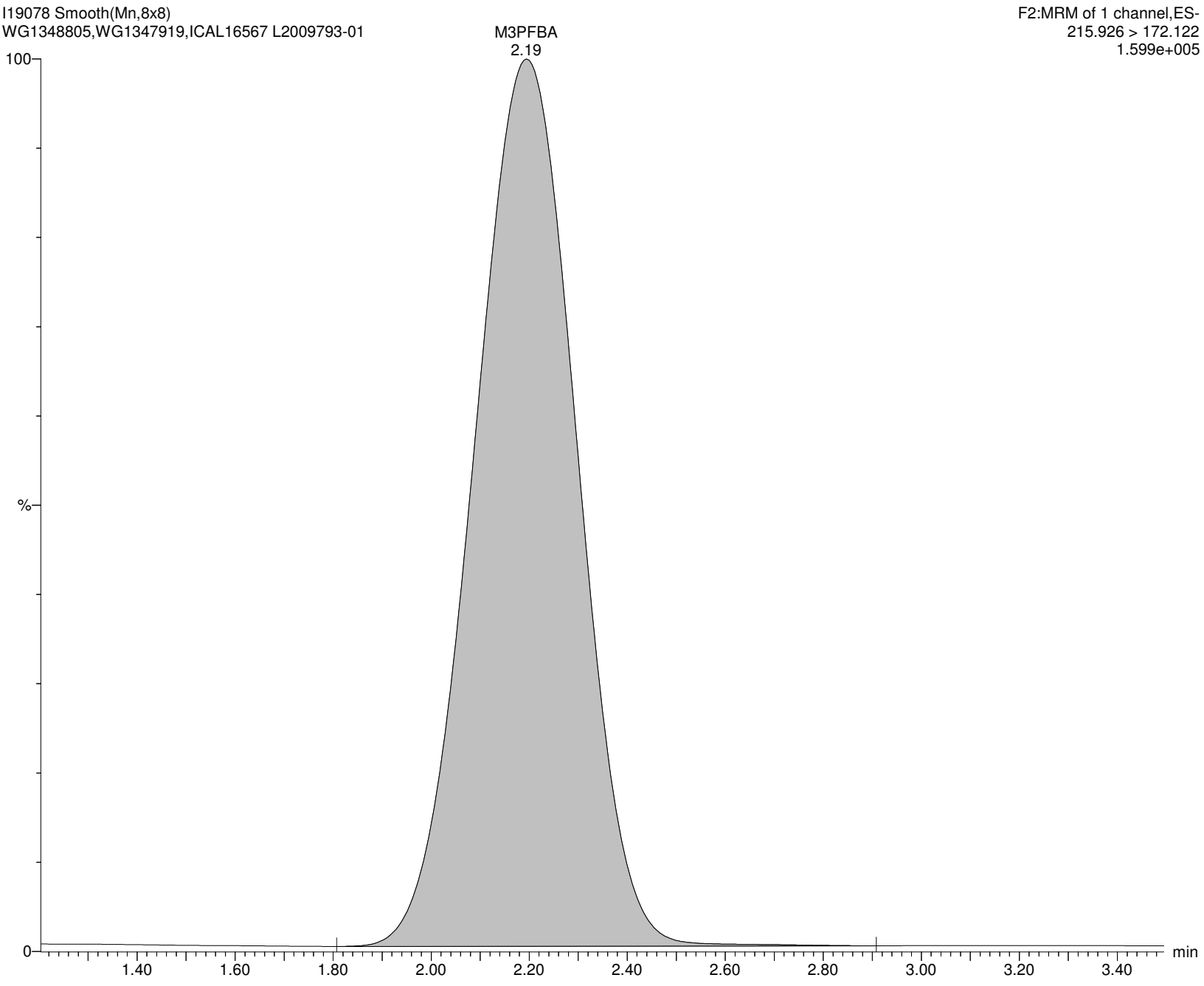
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
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User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
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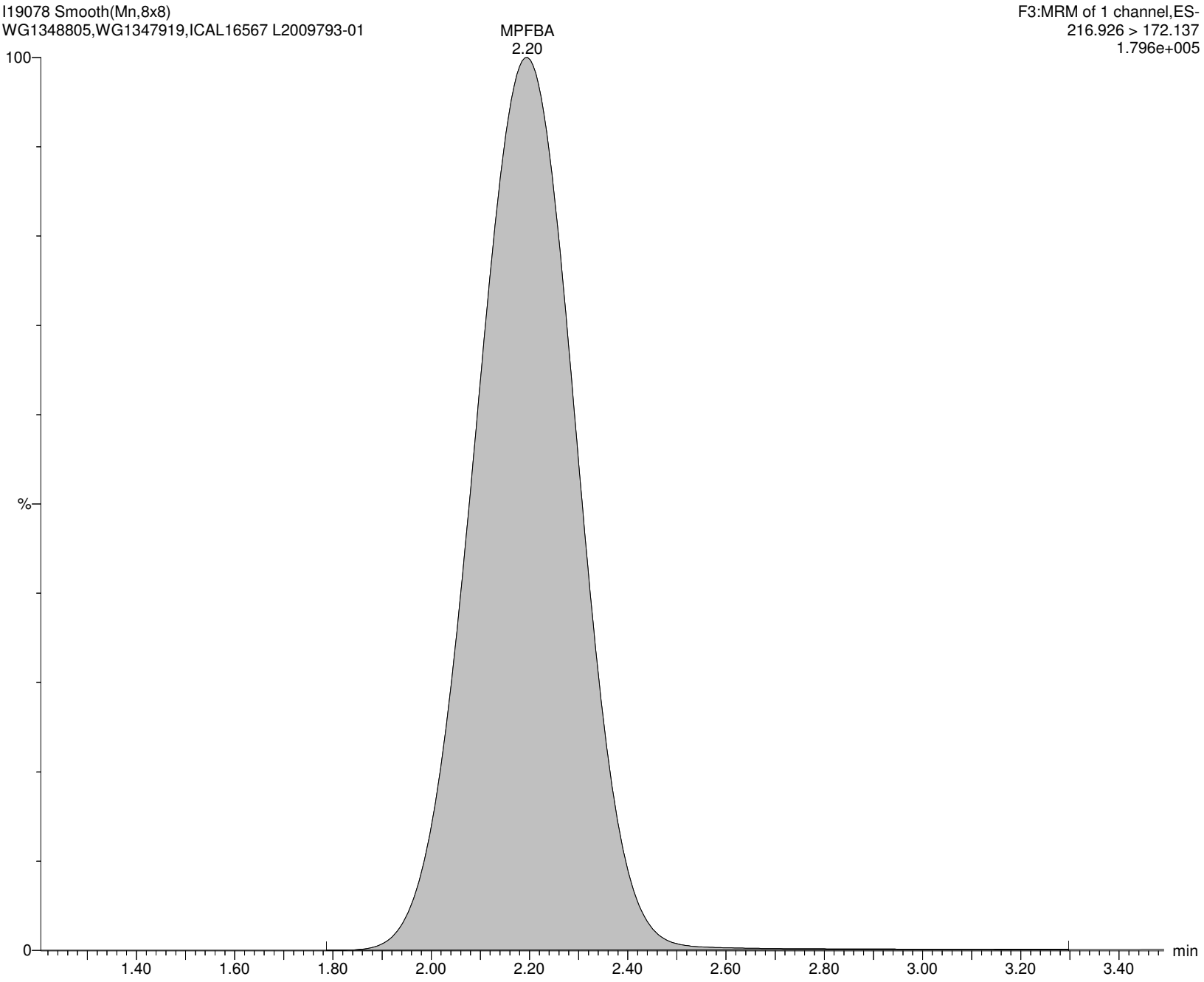
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

MPFBA

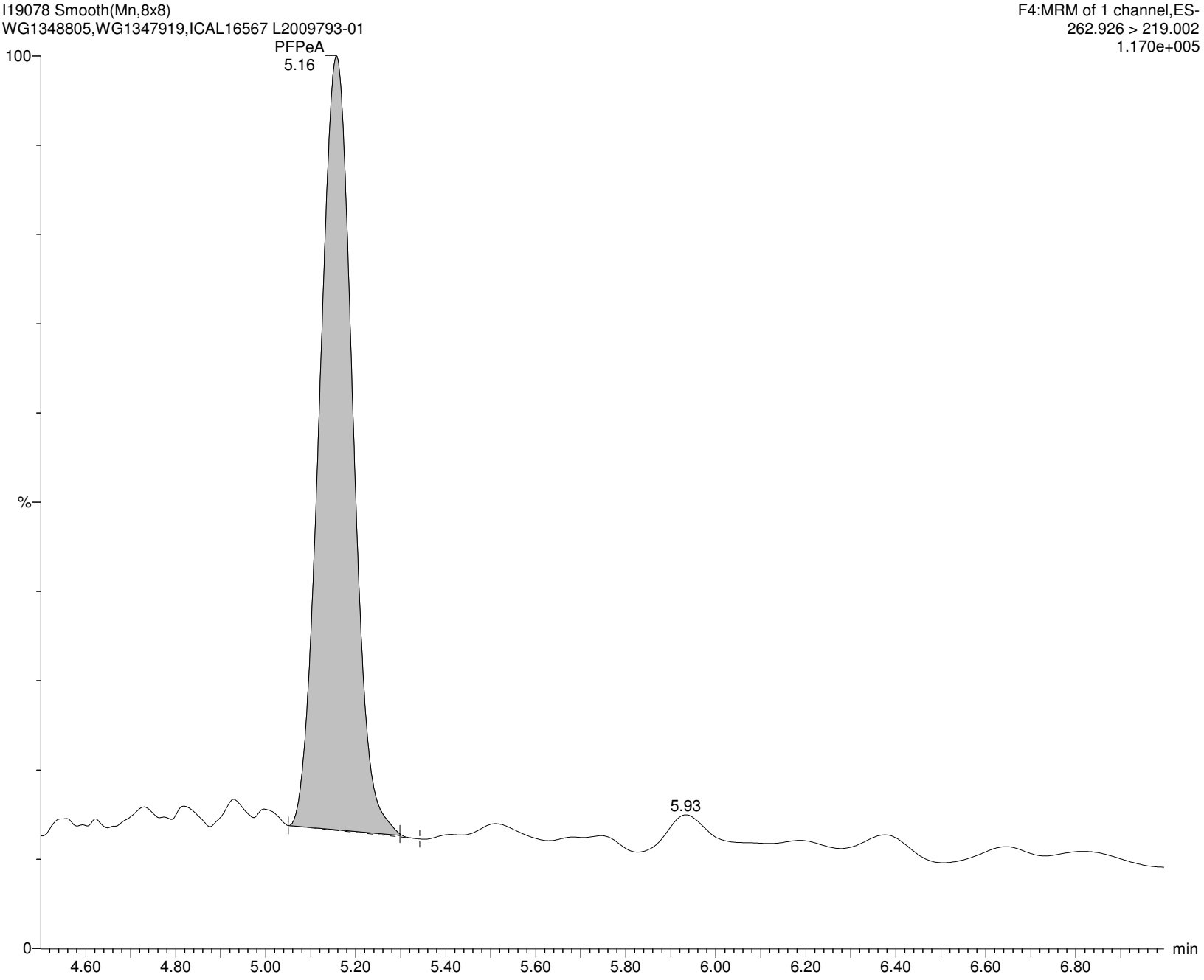


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFPeA

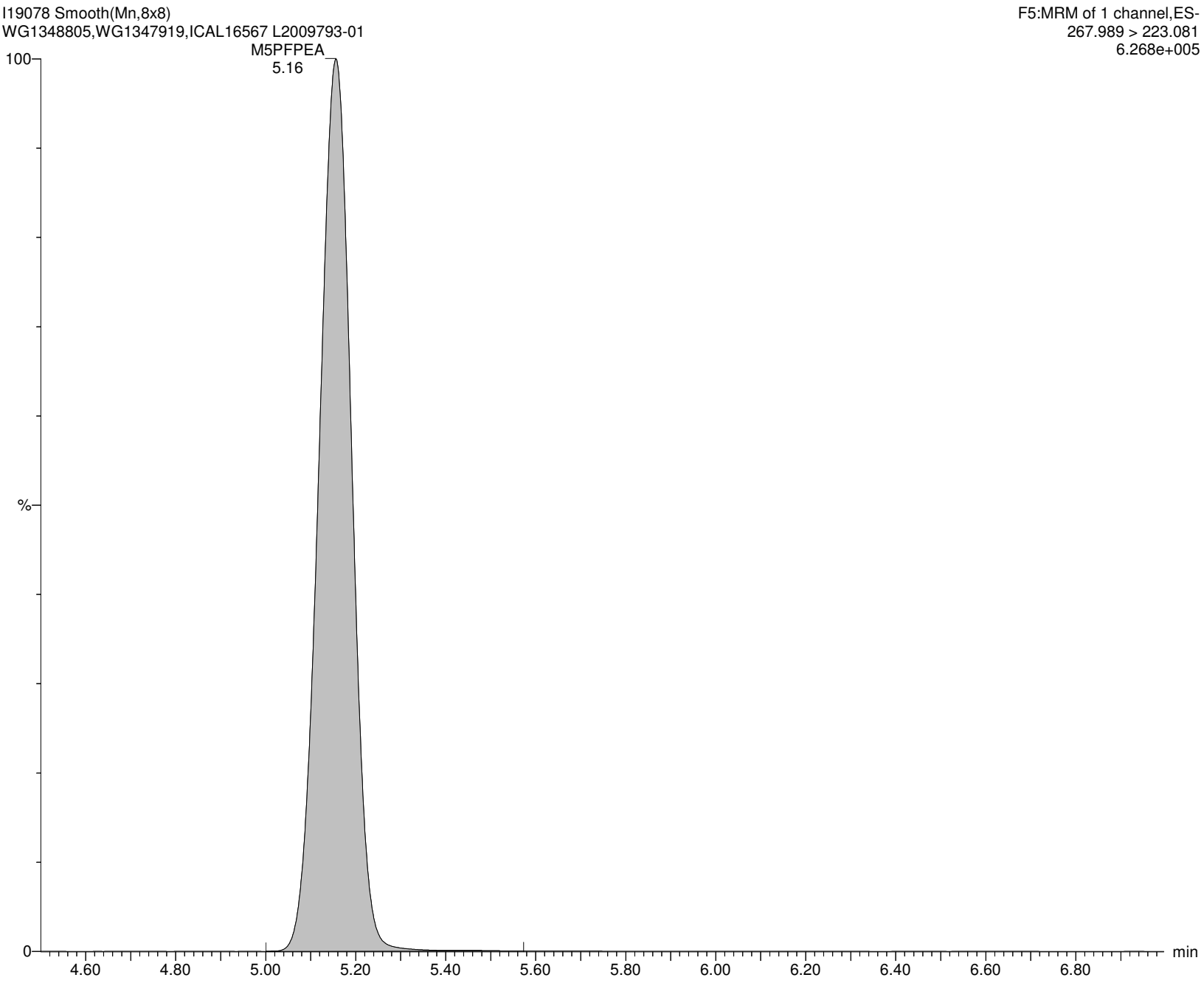


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M5PFPEA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
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Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
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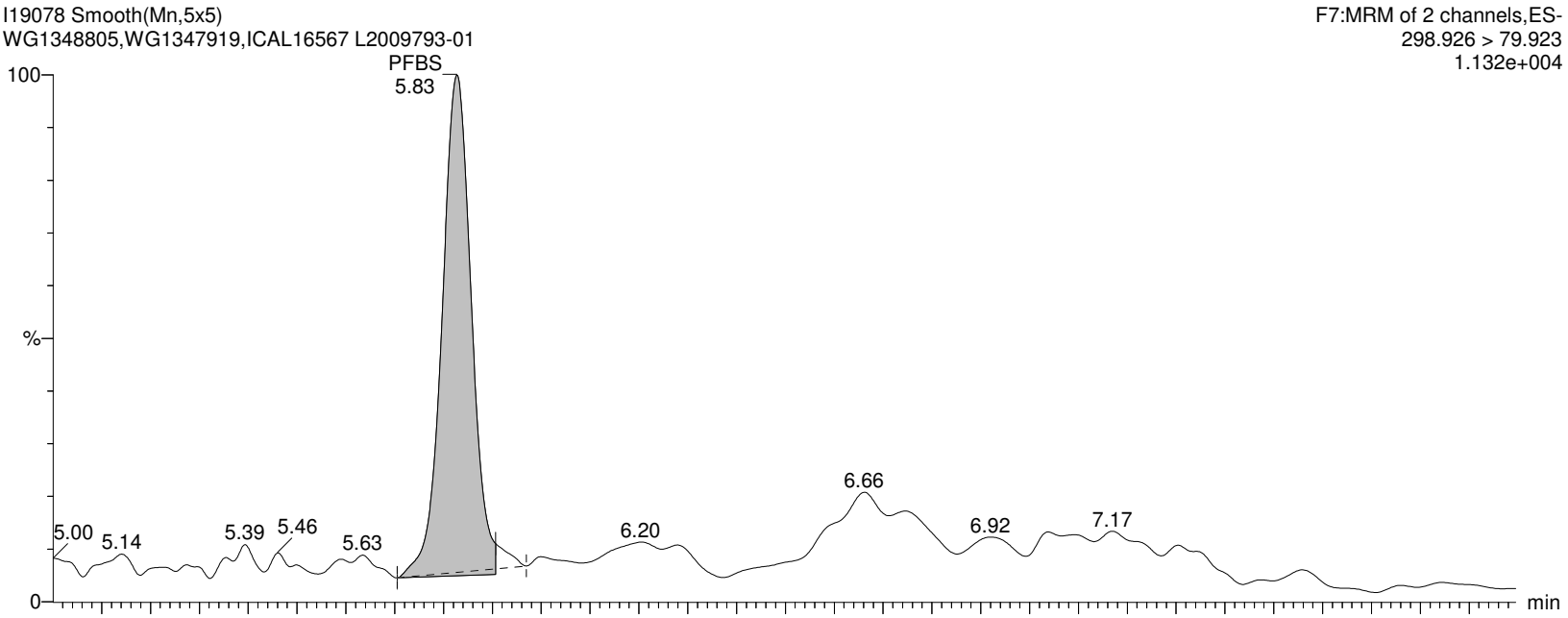

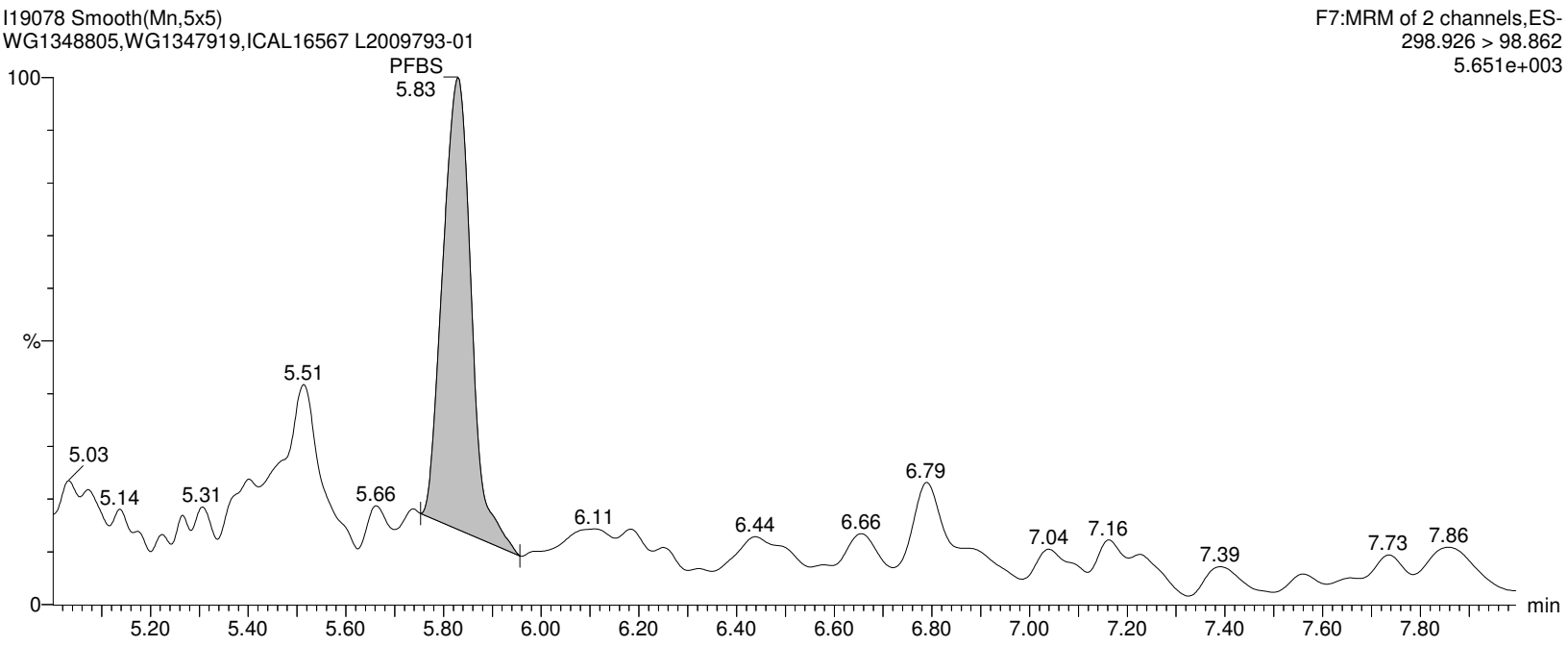

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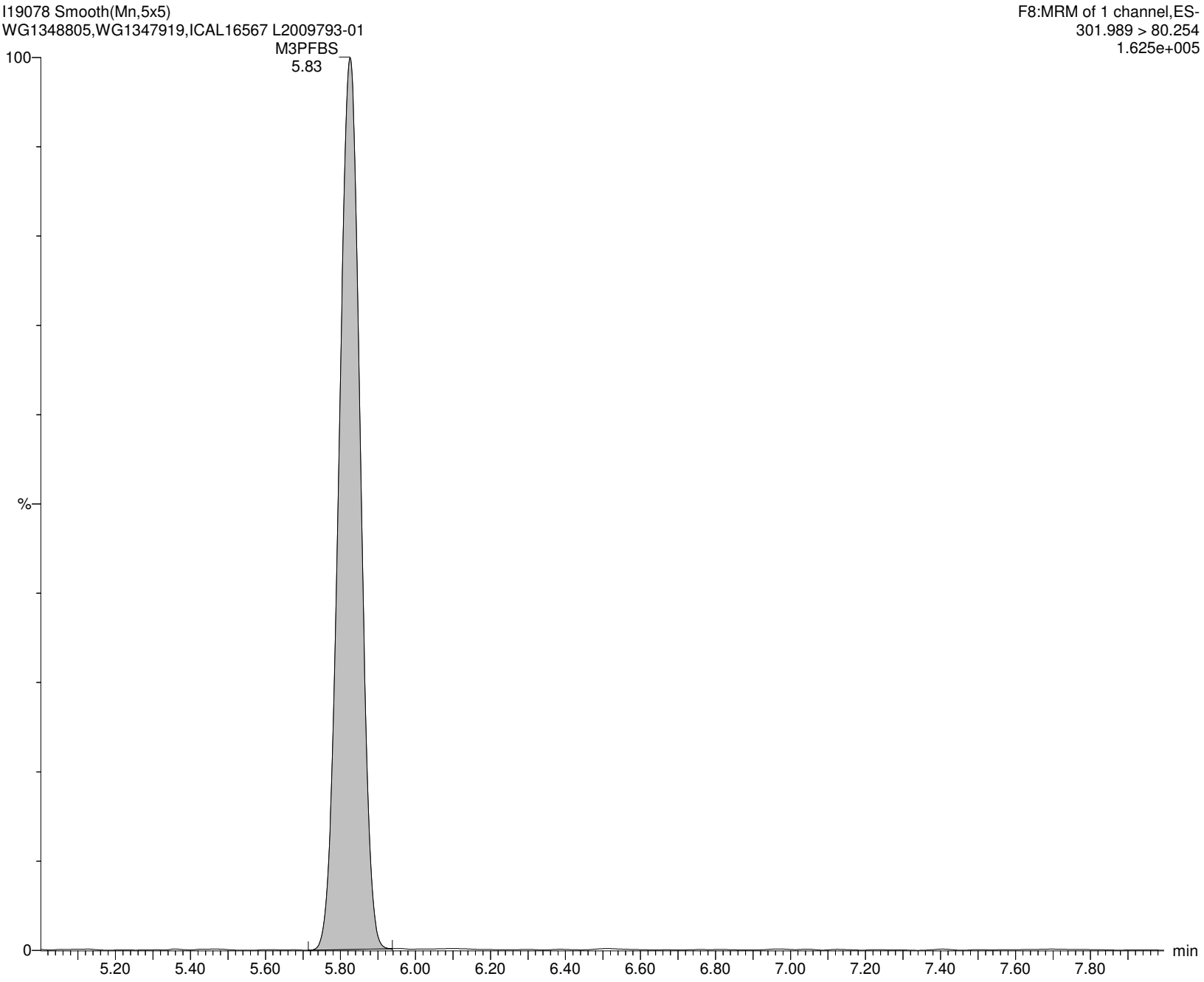

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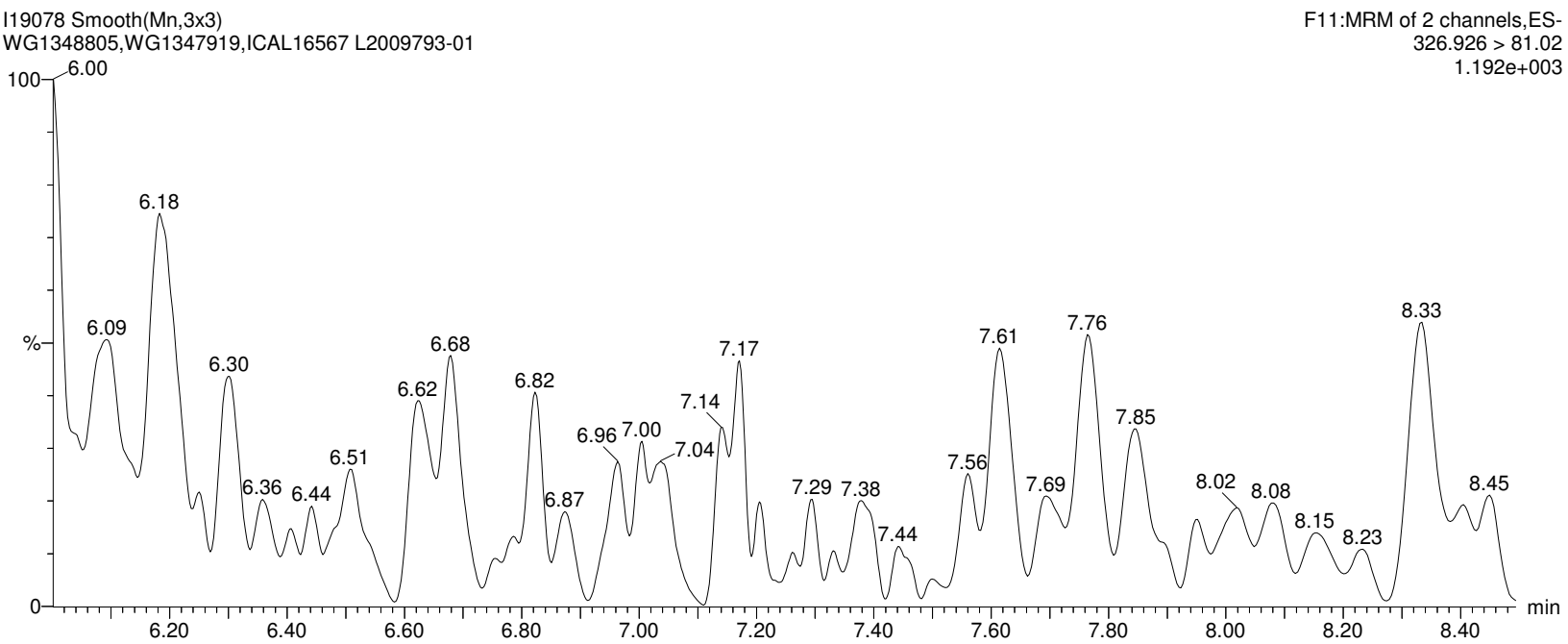

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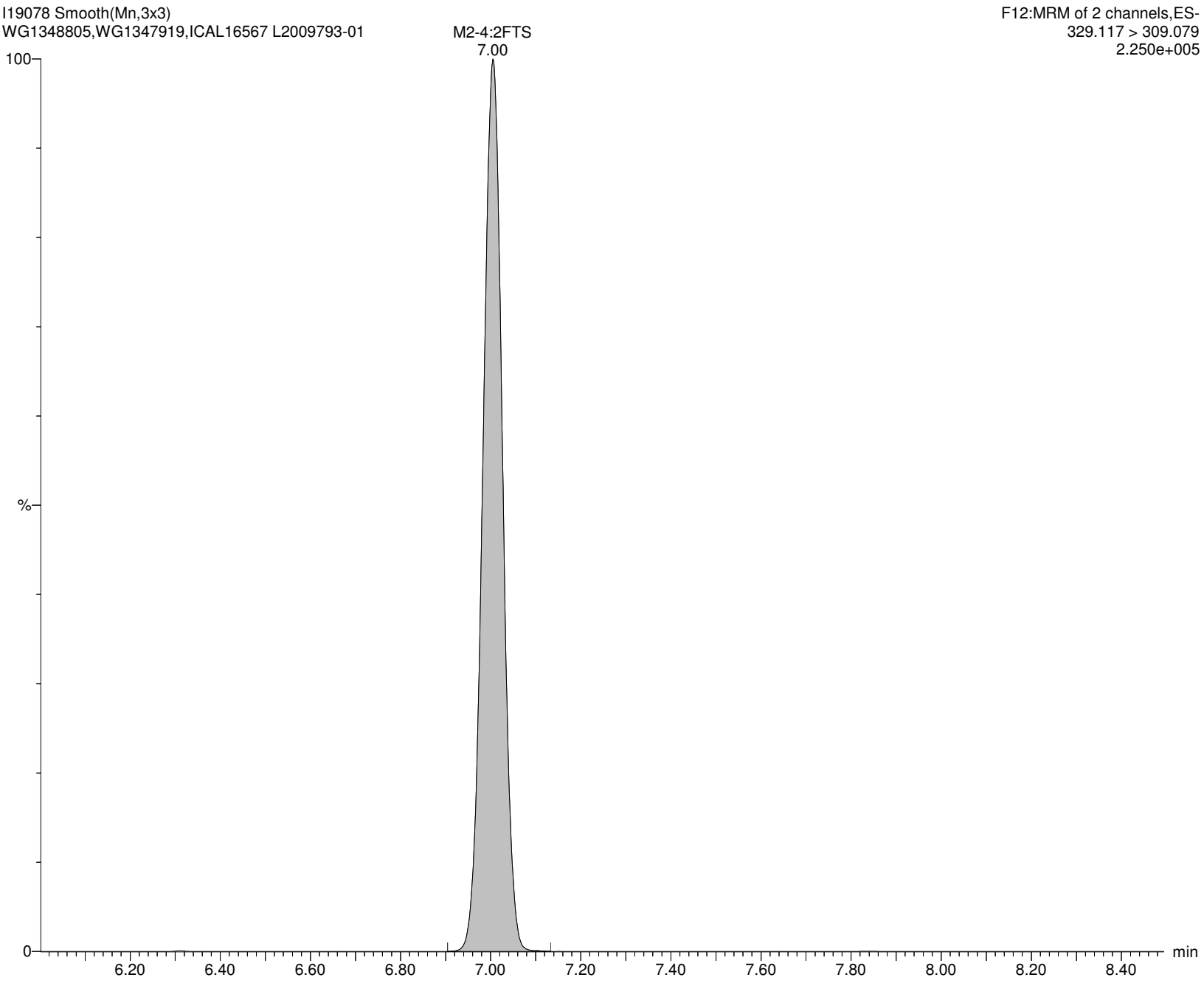

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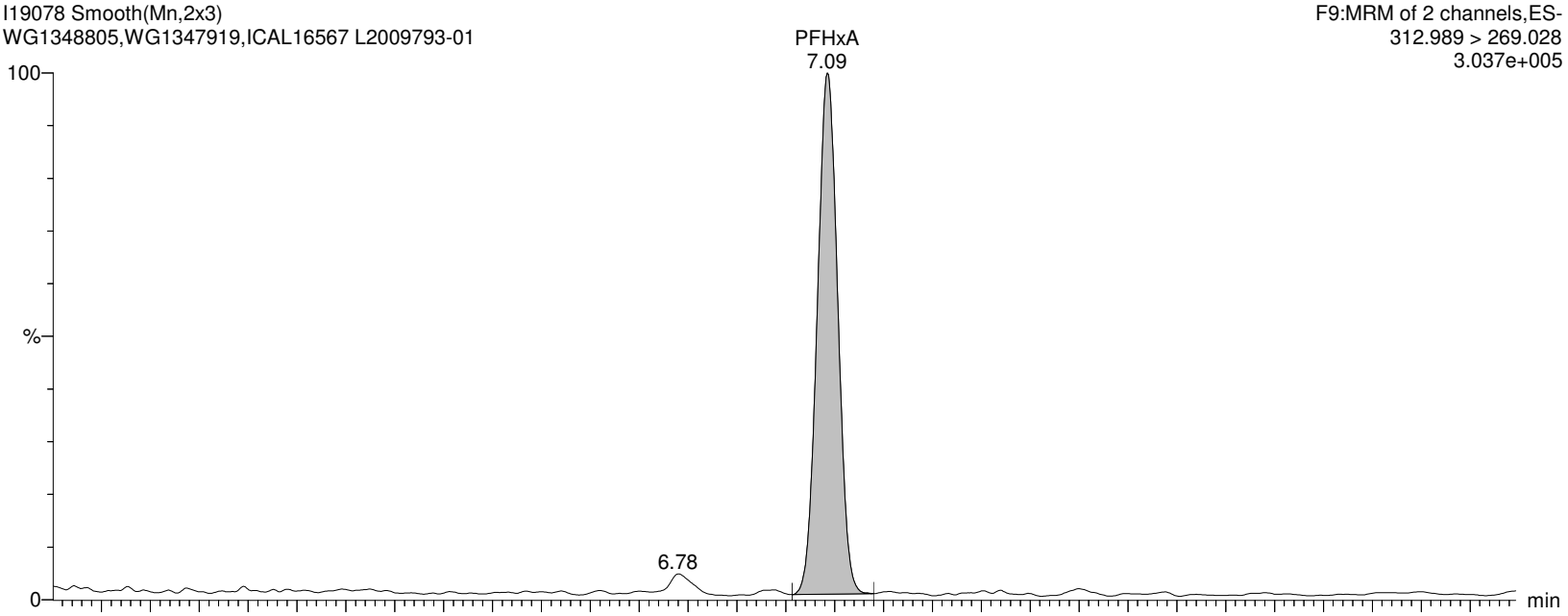

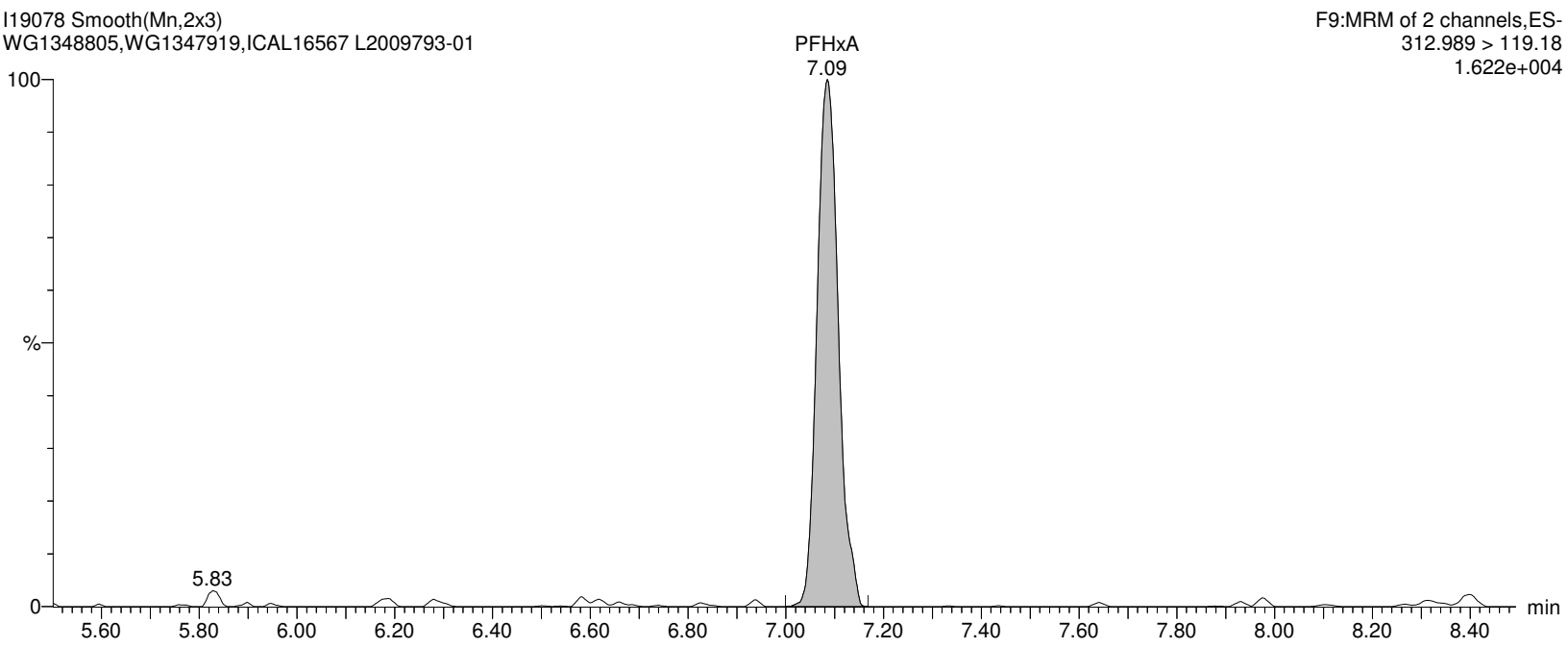

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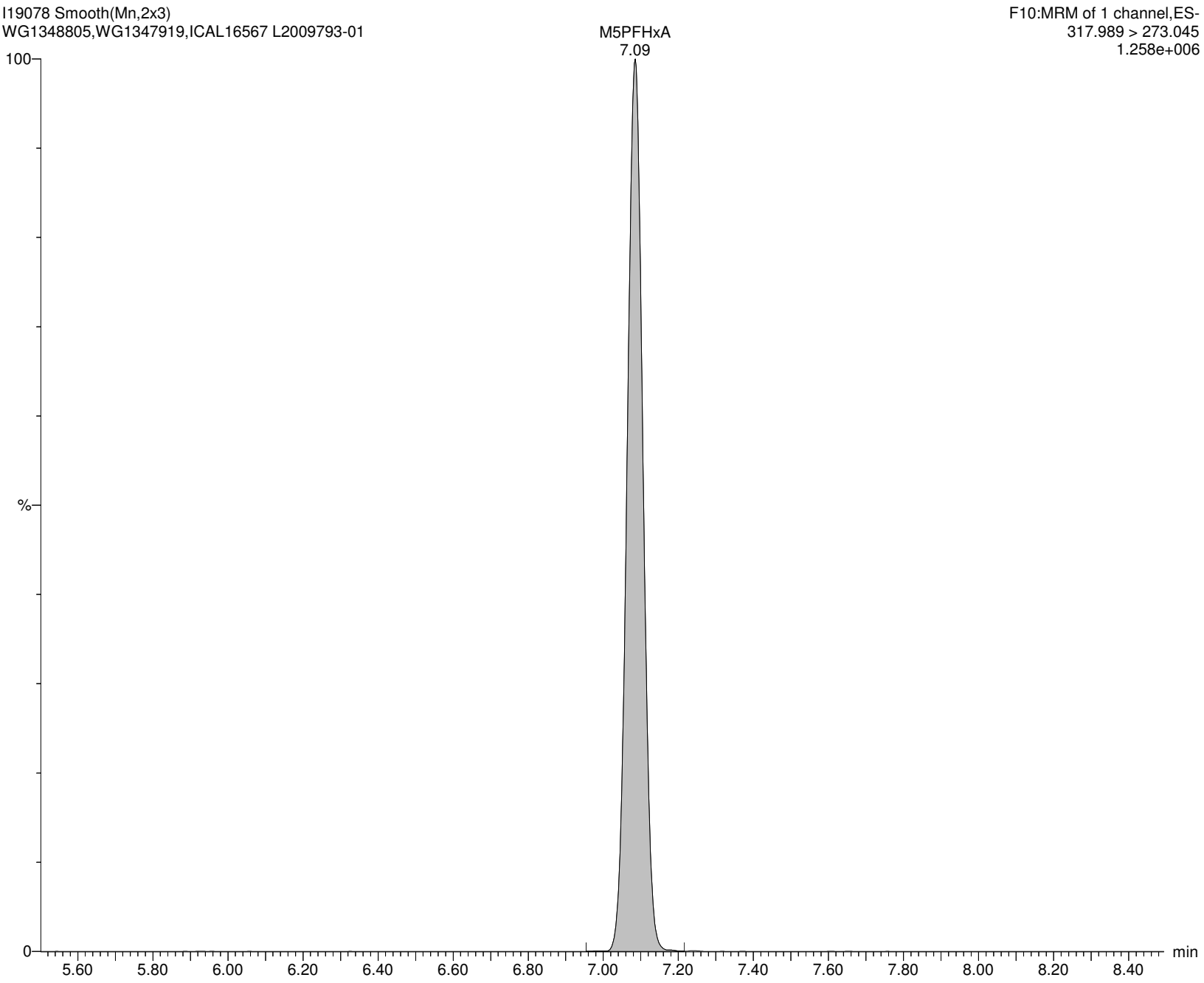

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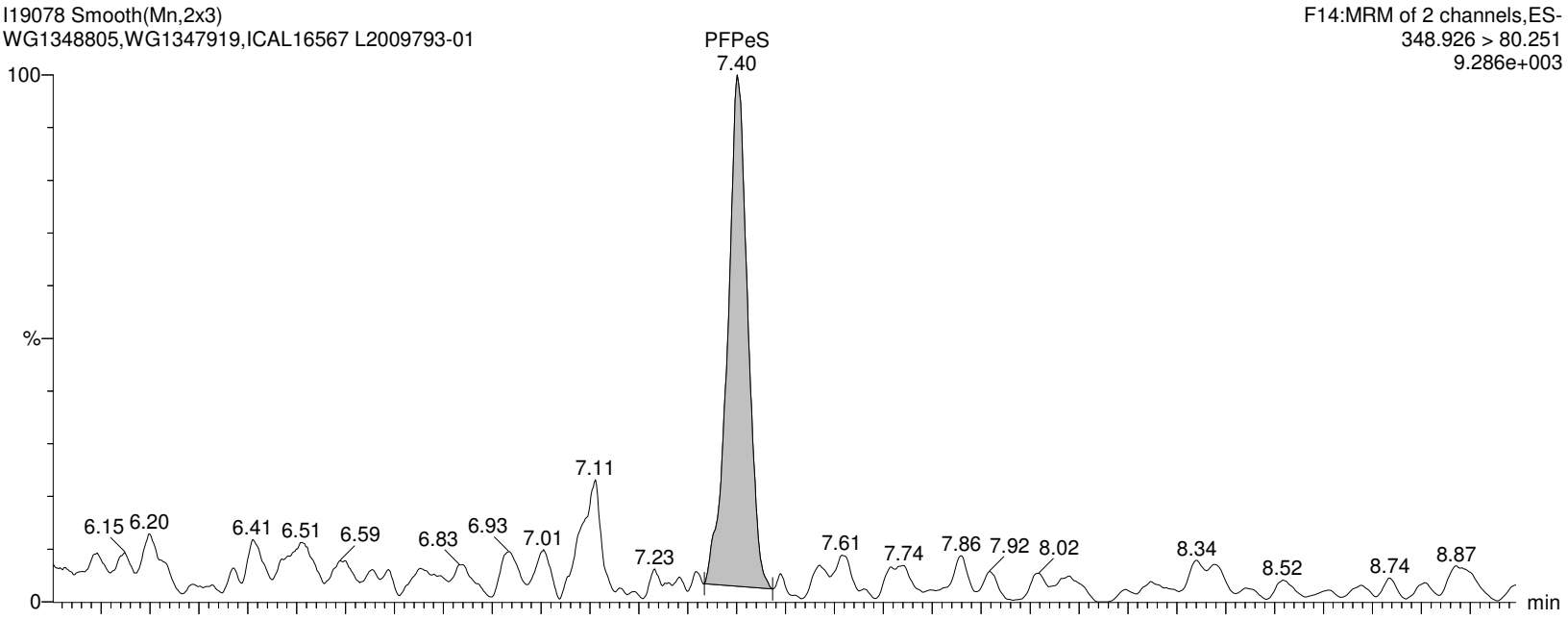

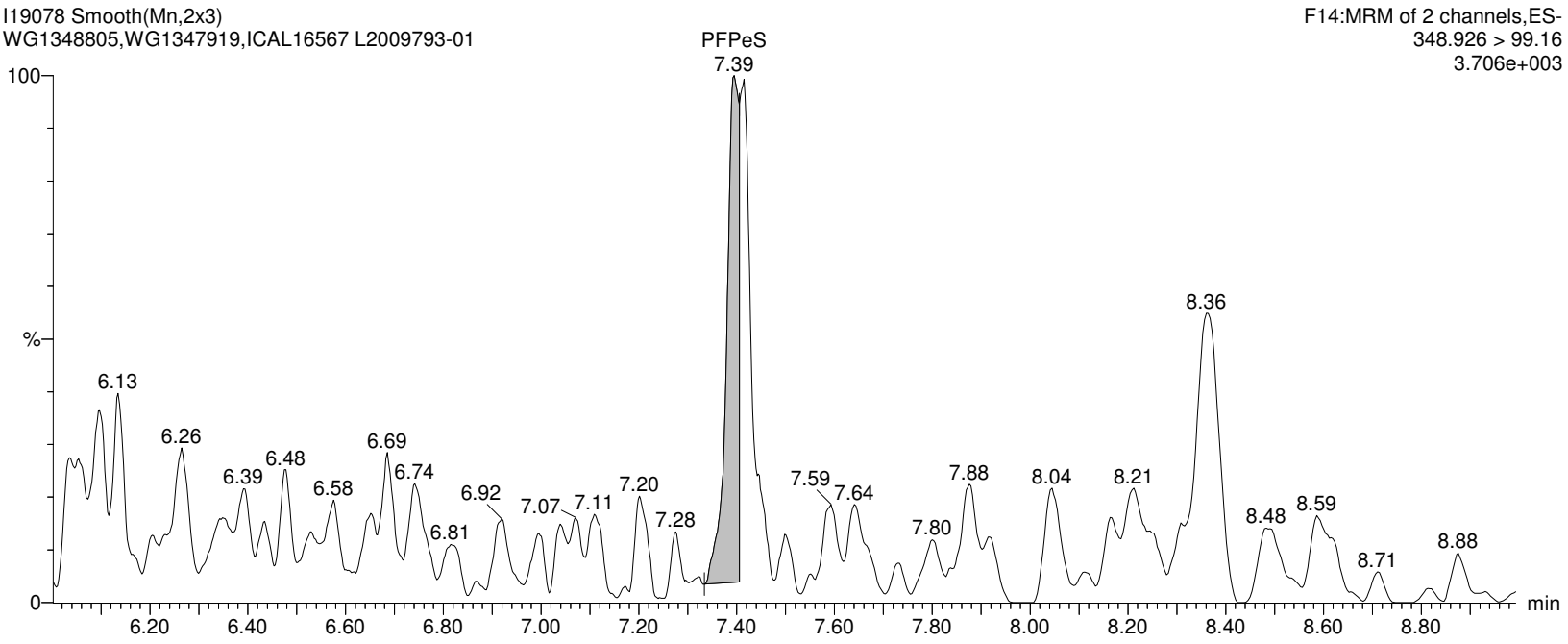

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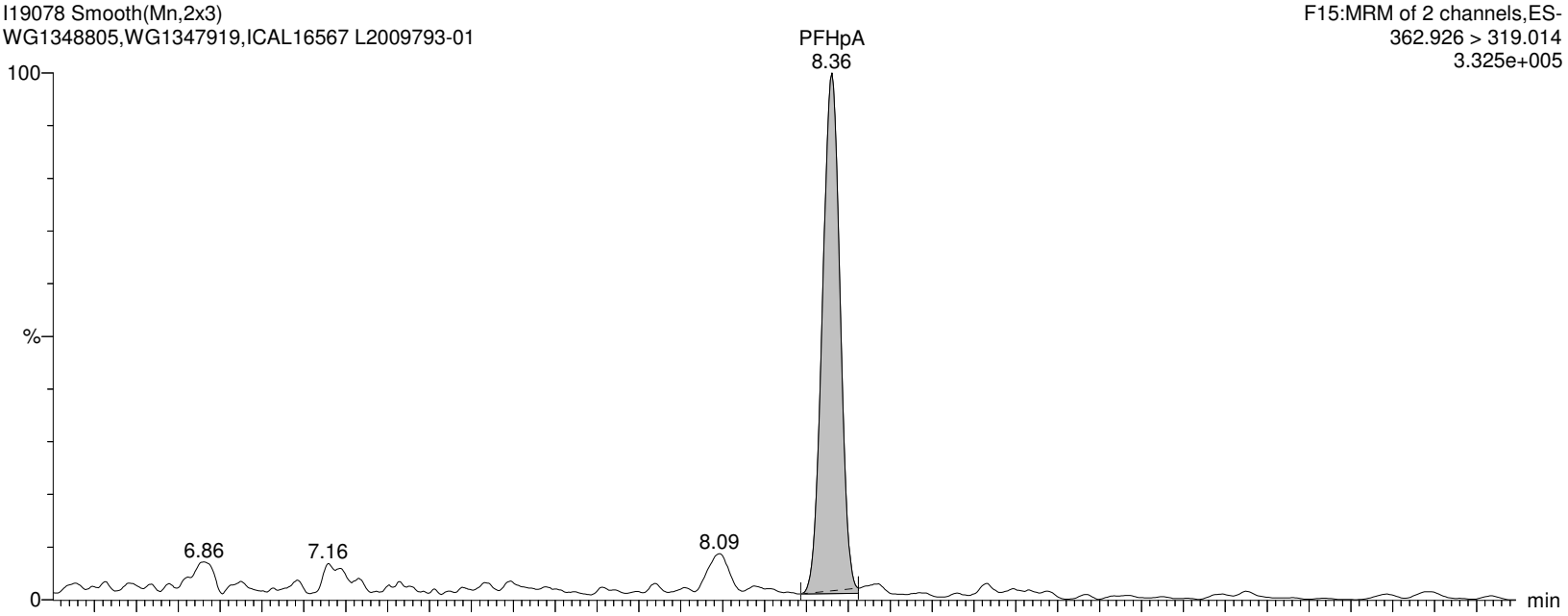

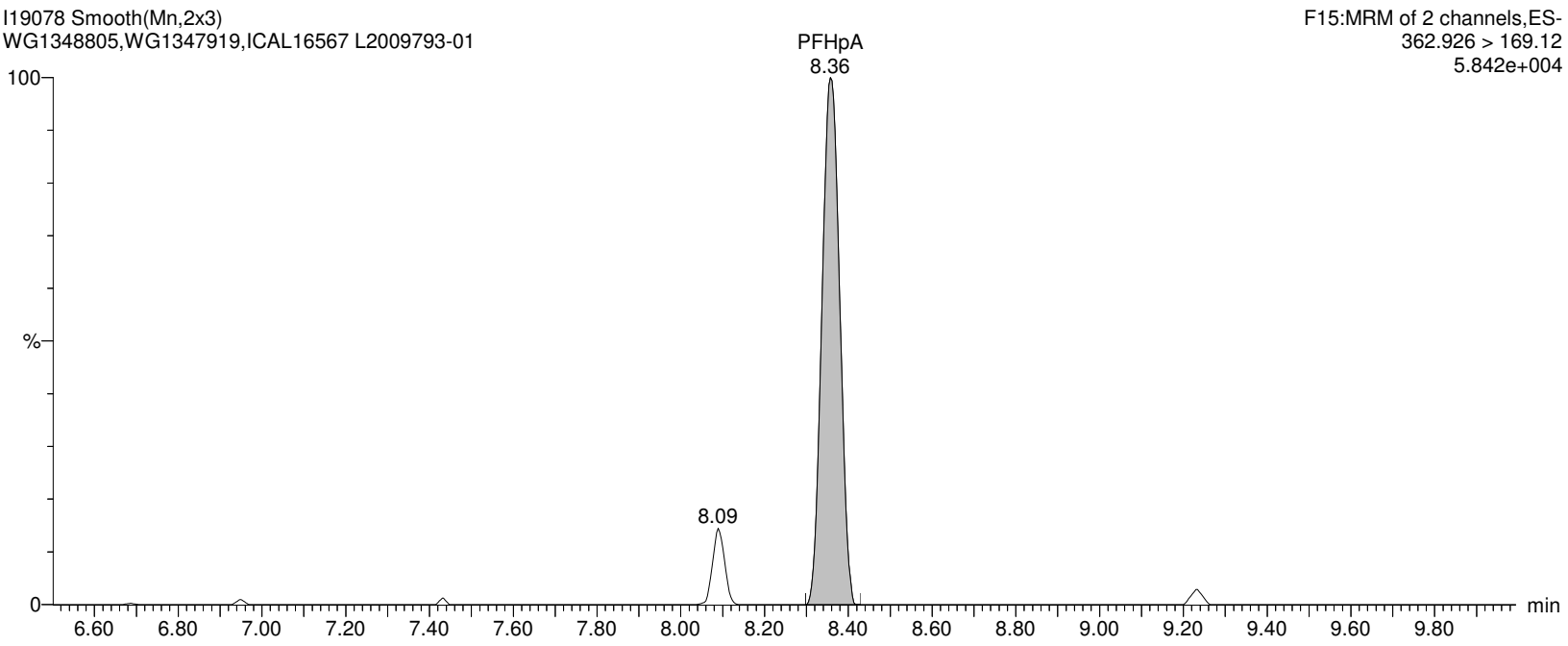

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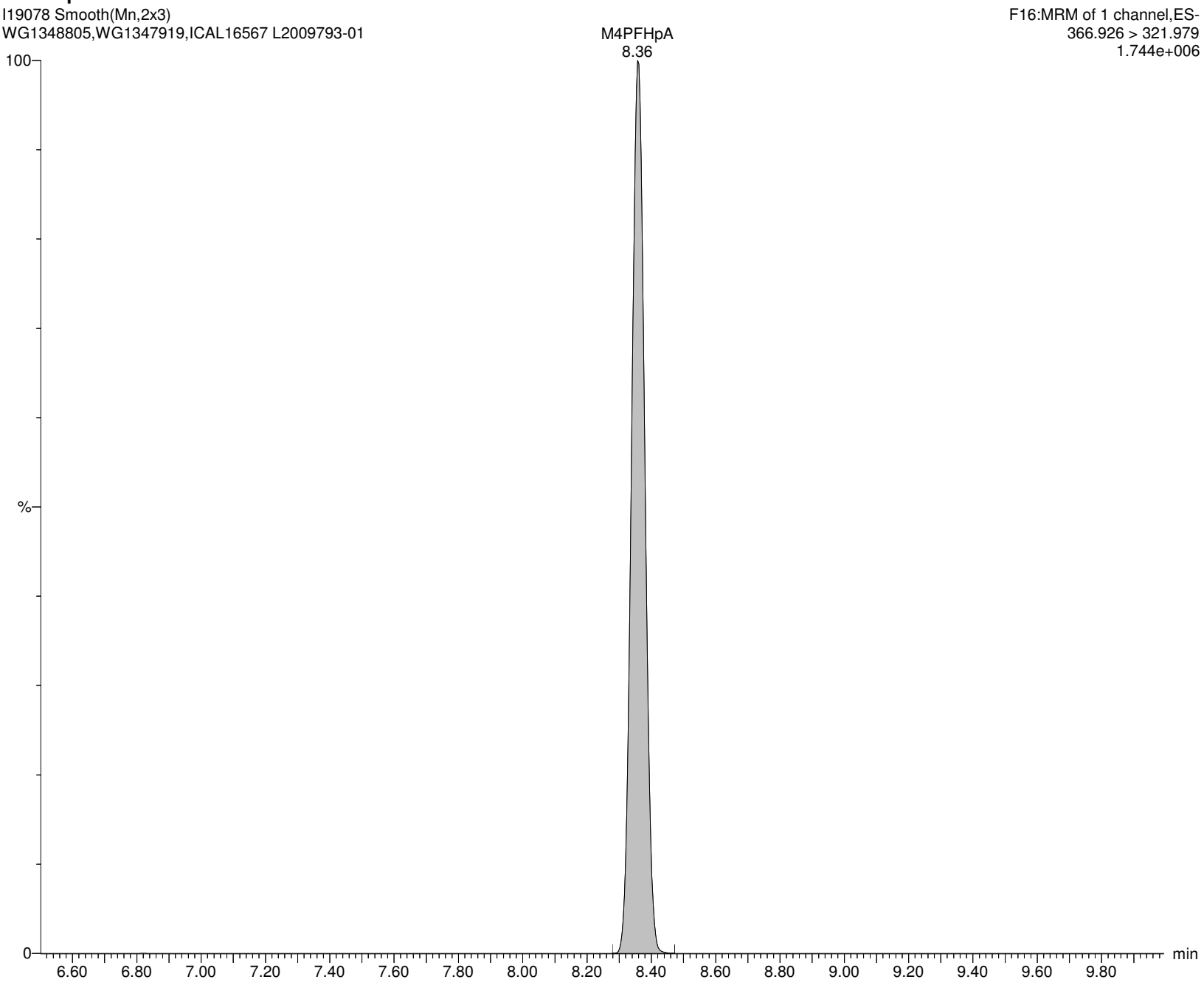

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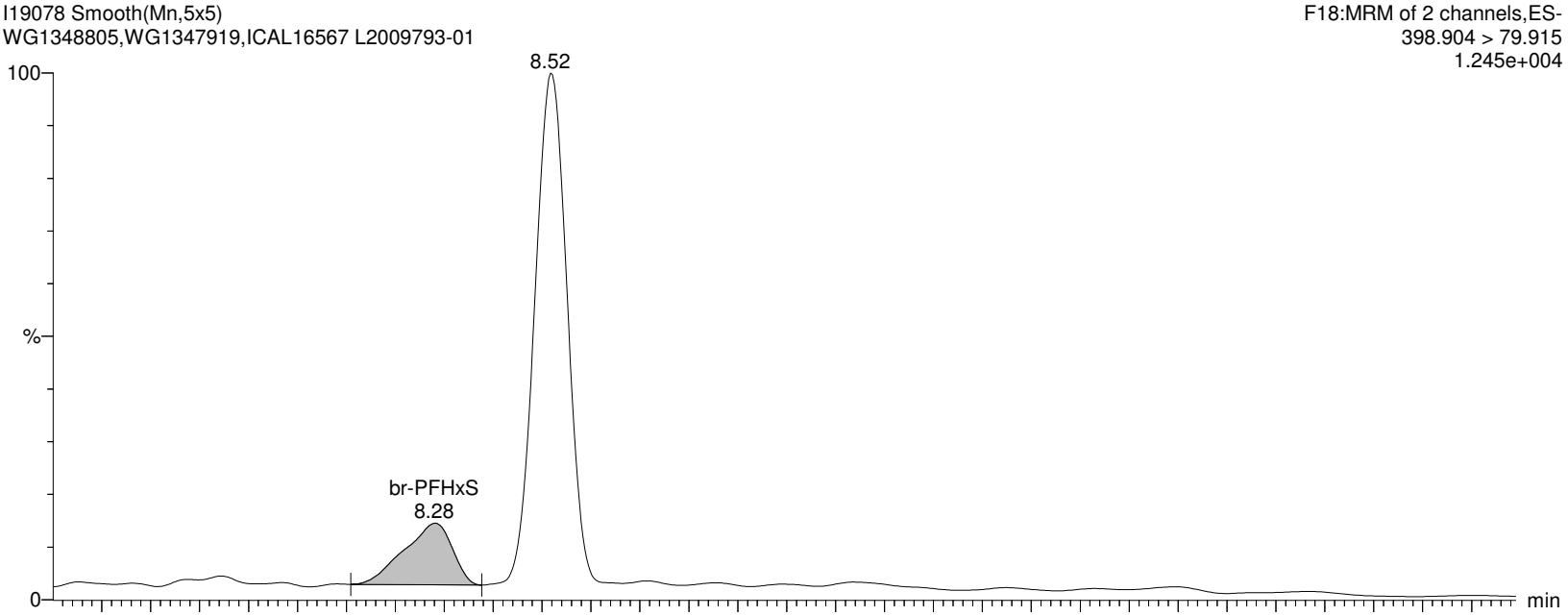

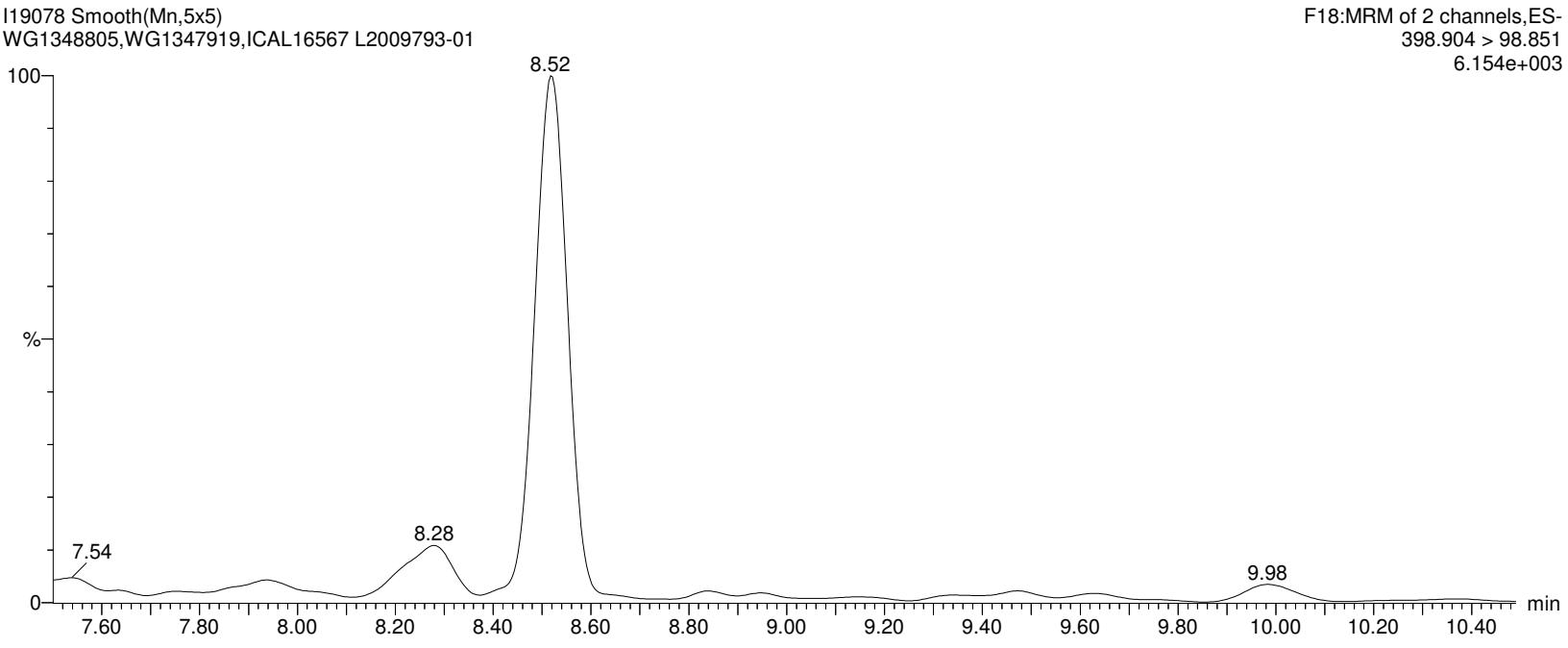

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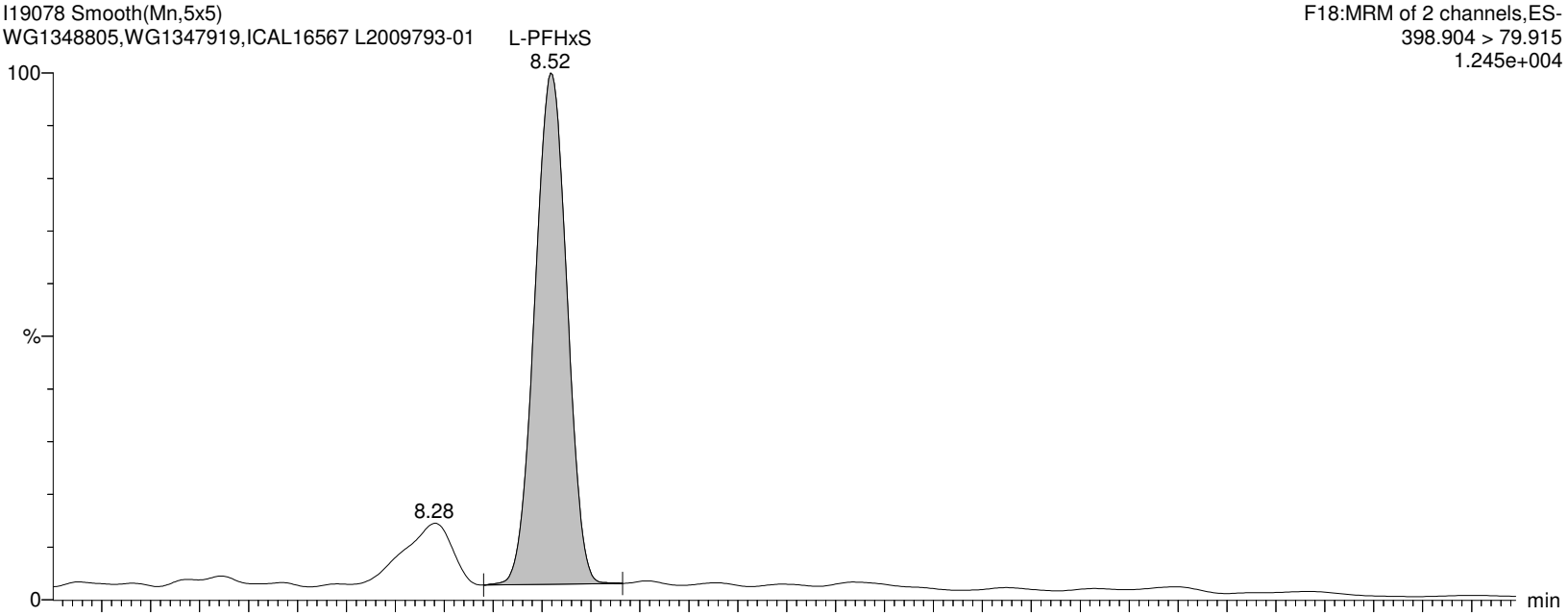

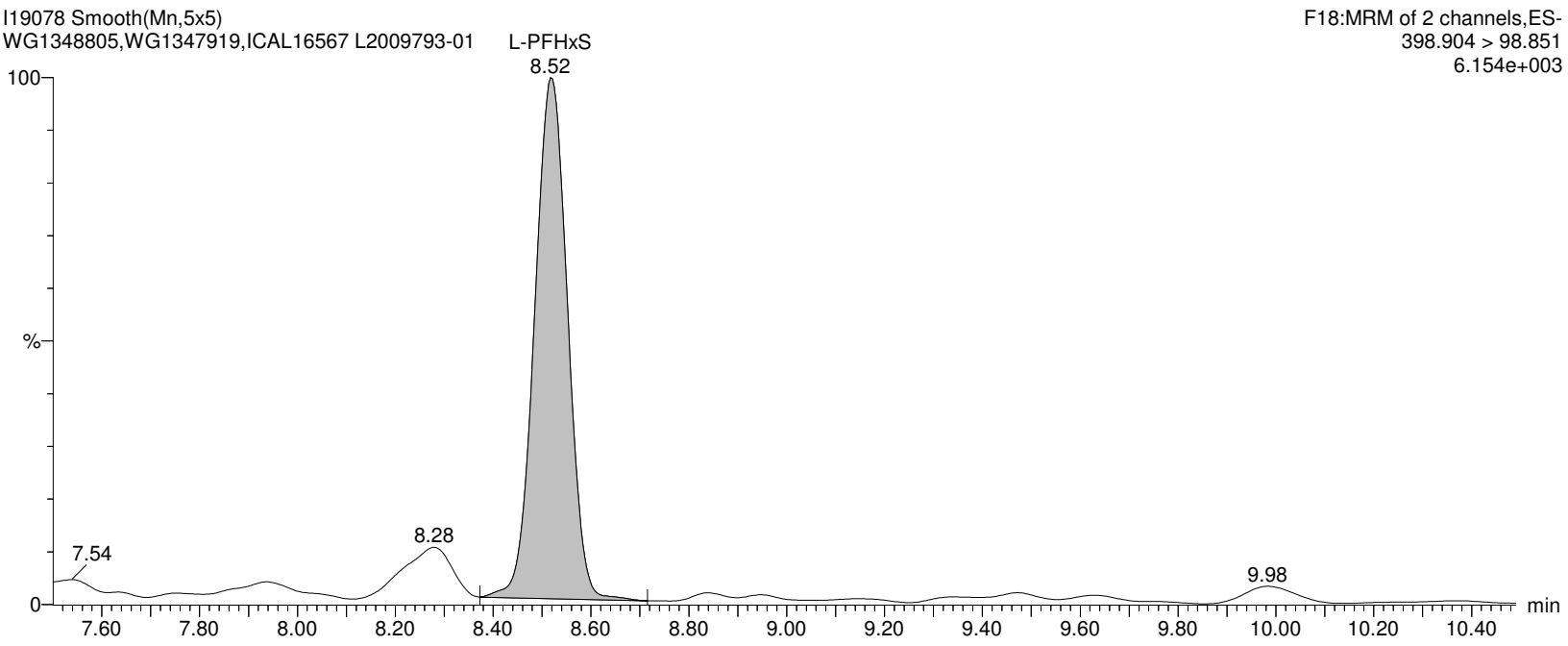

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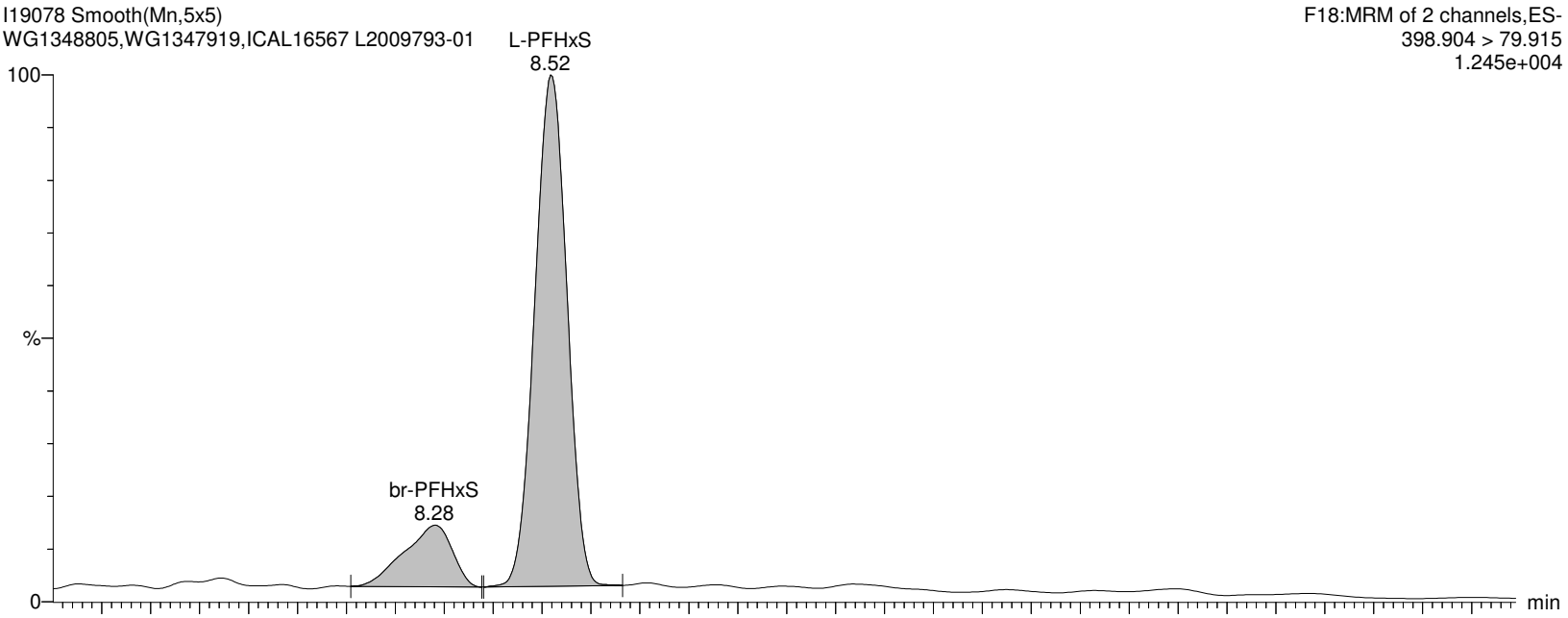

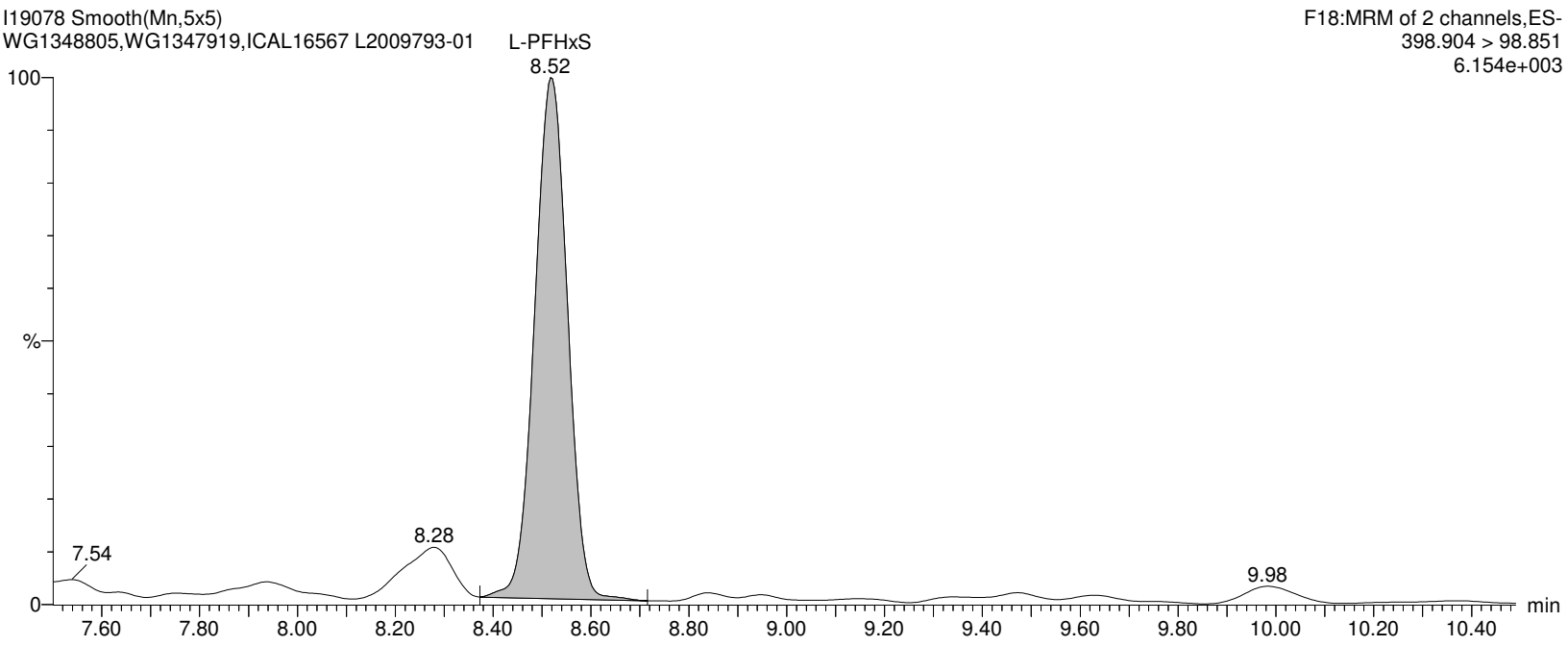

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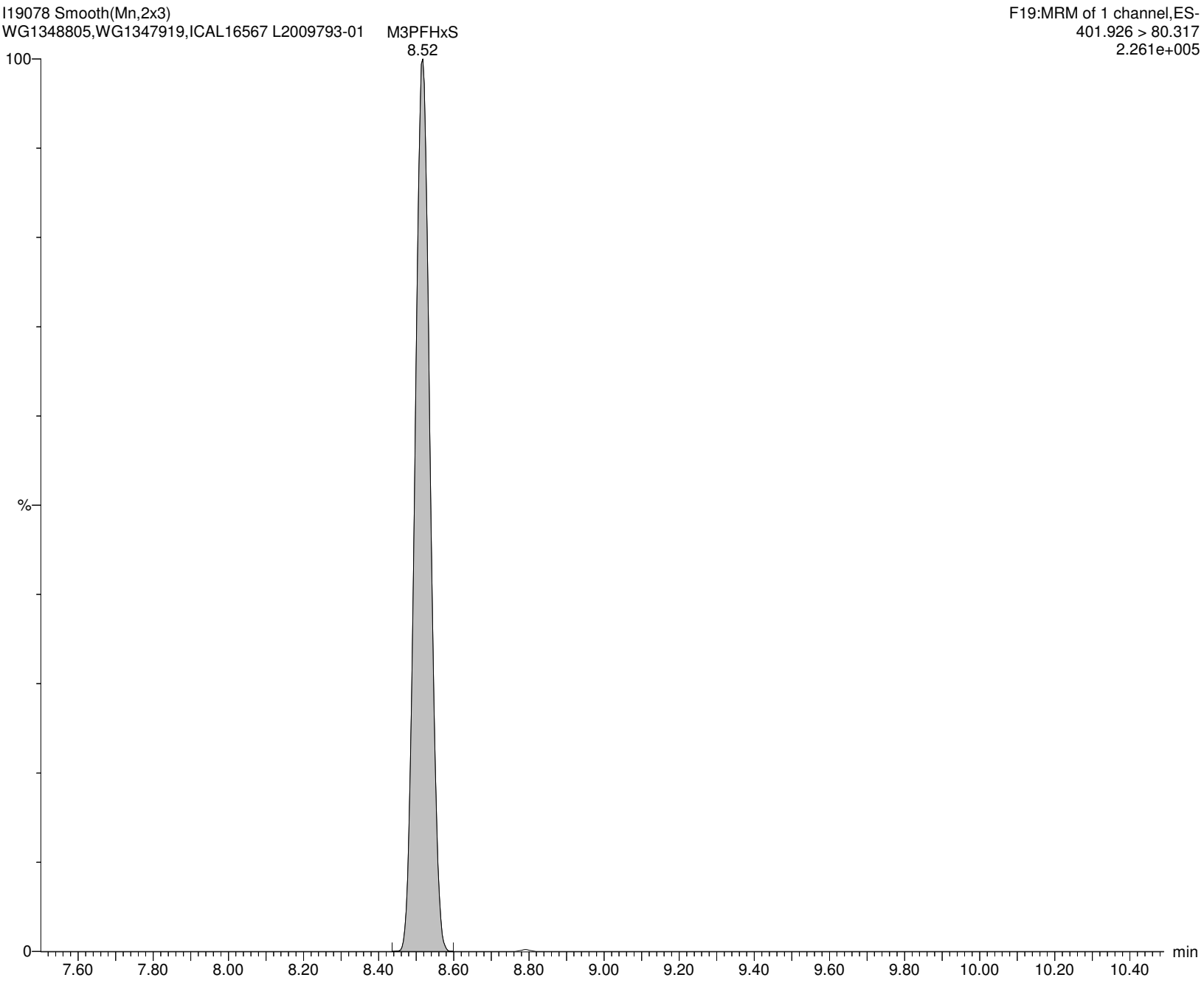

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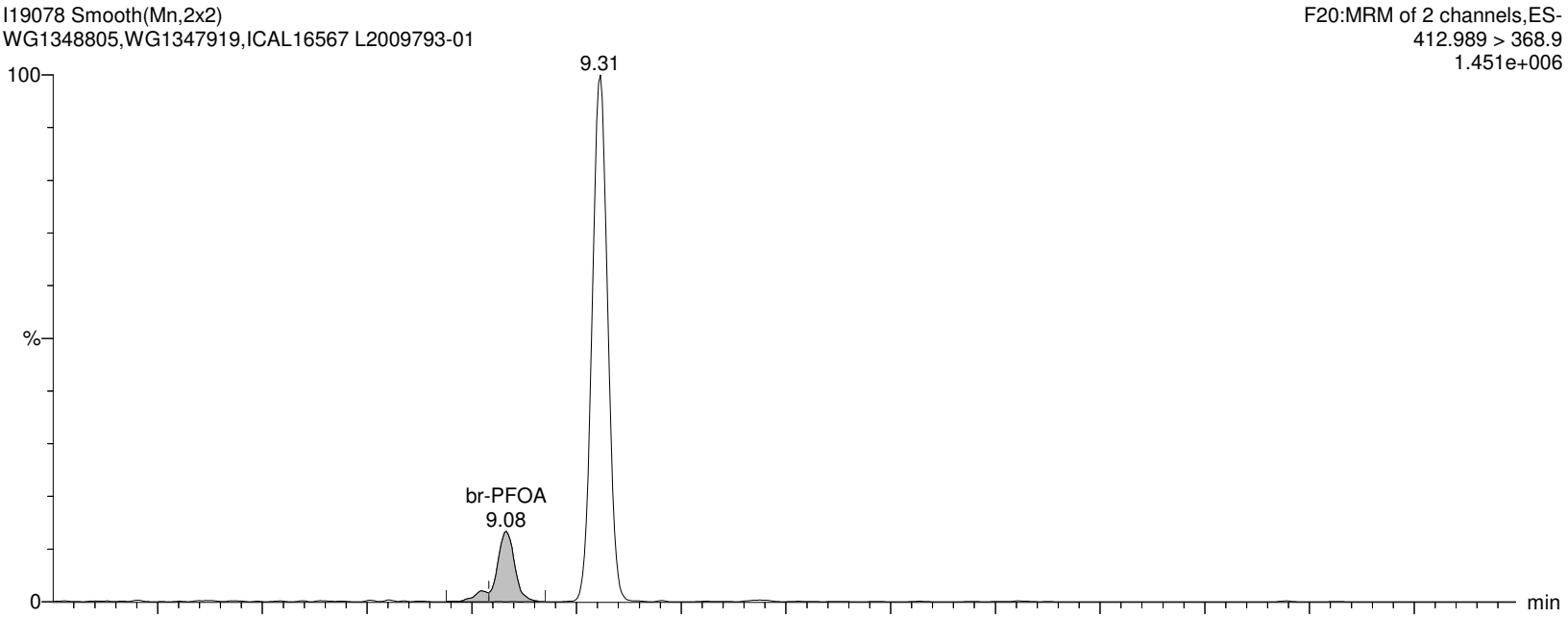

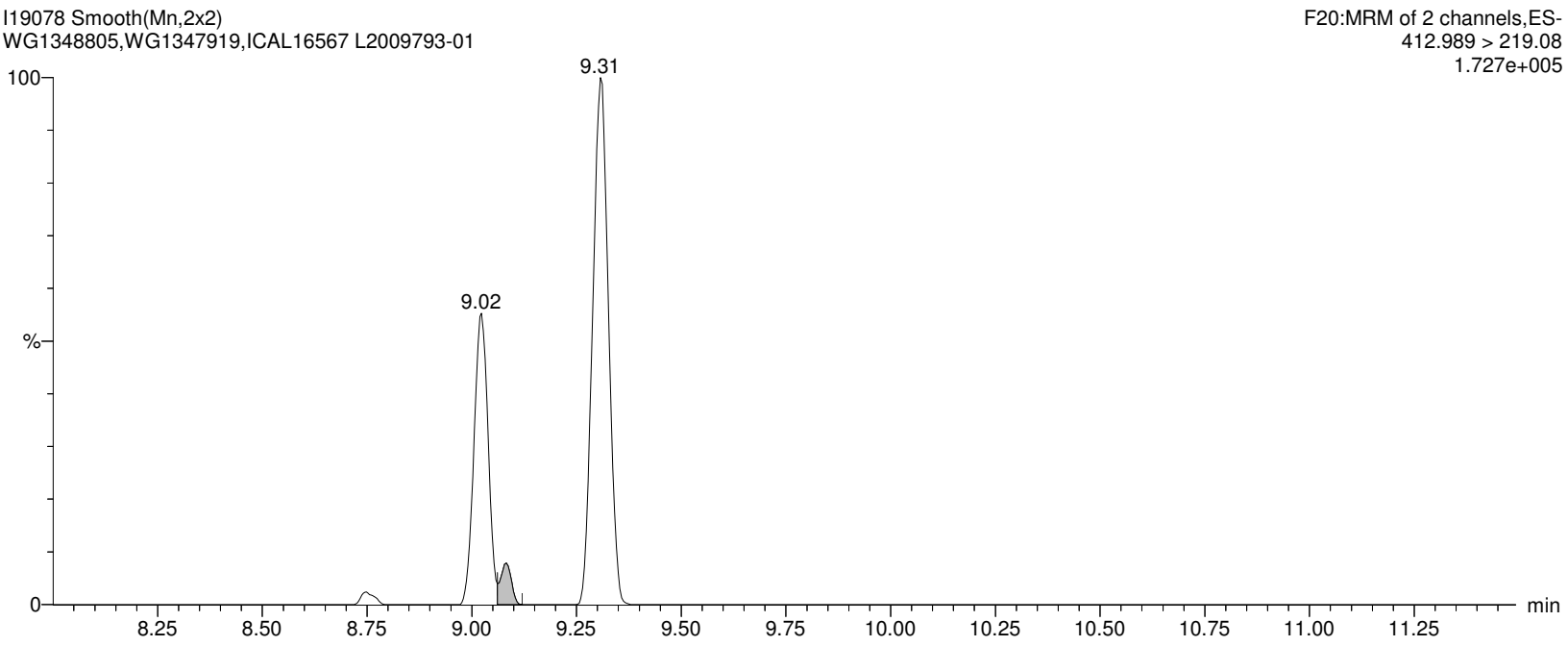

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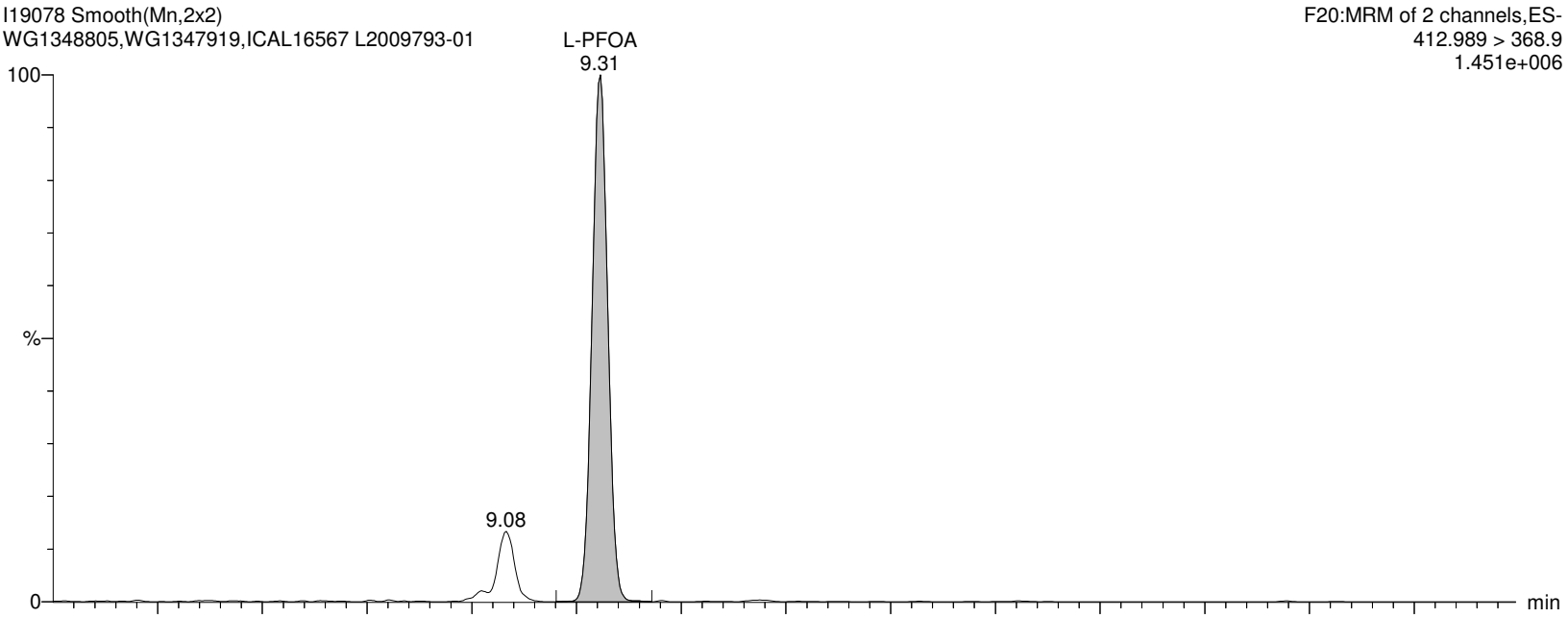

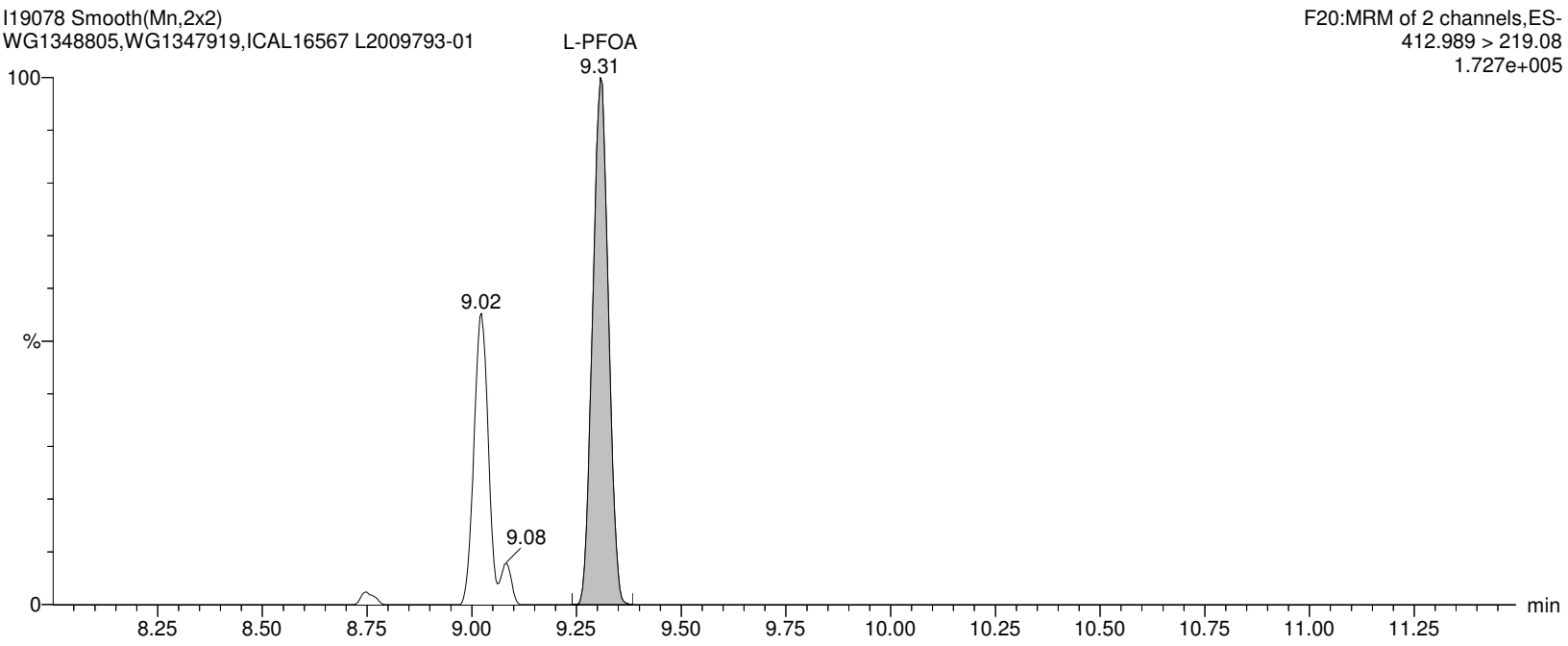

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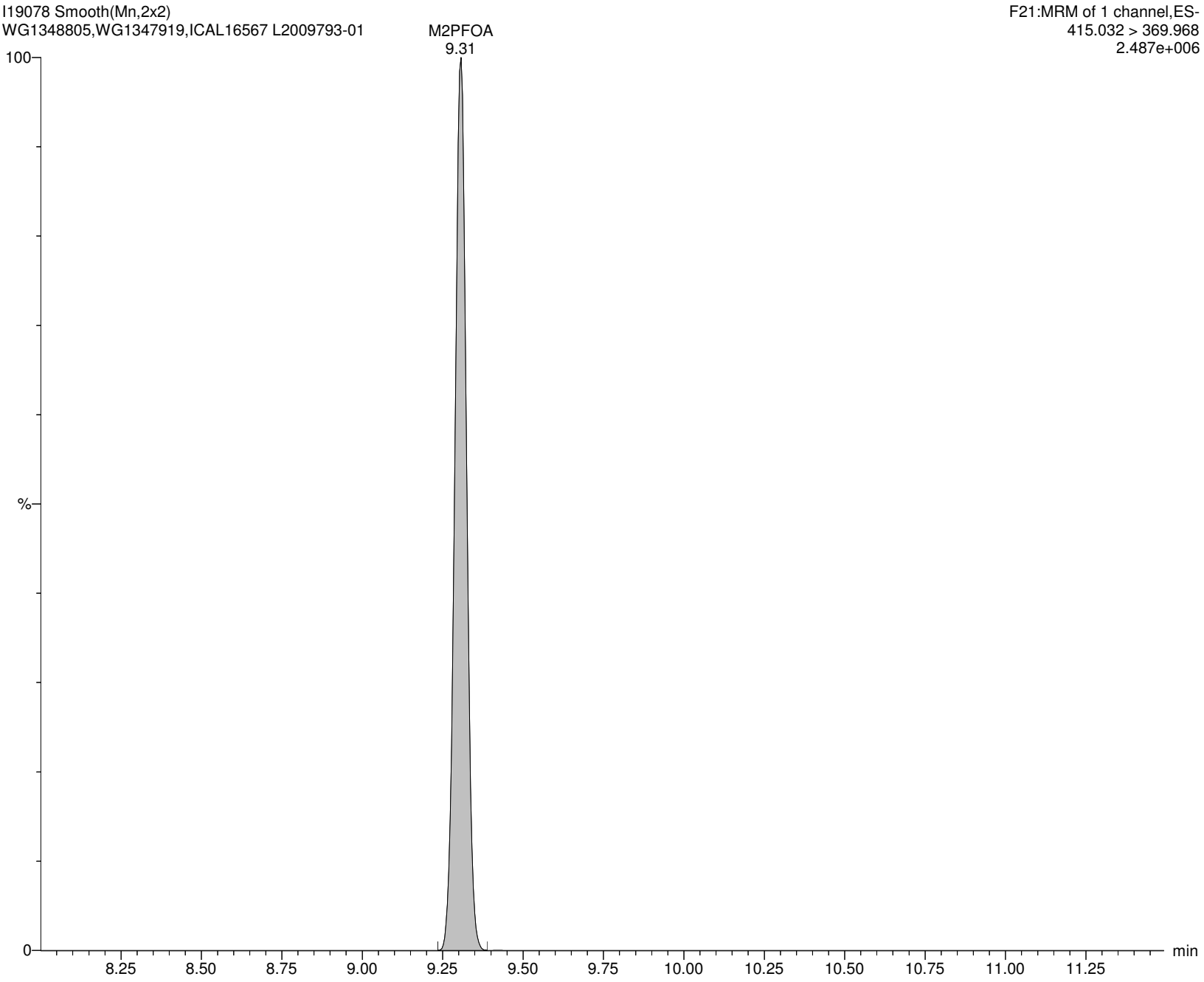

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
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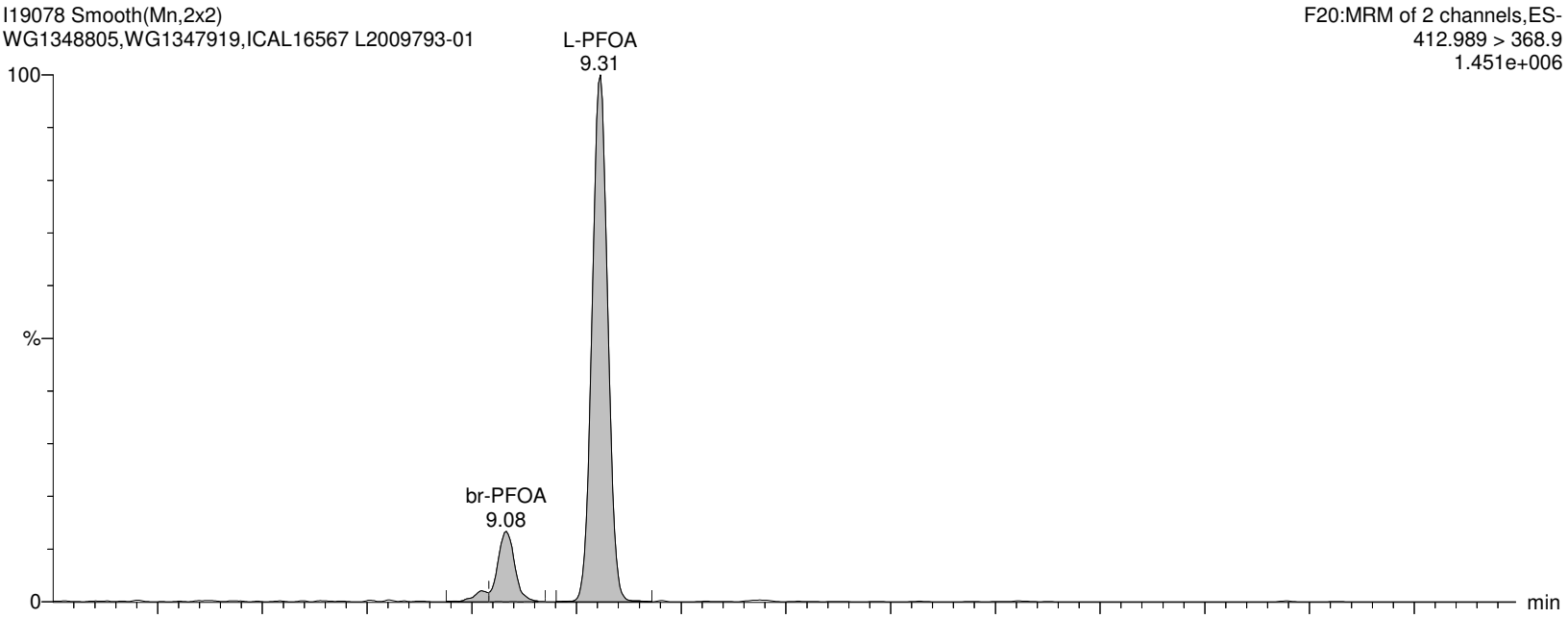

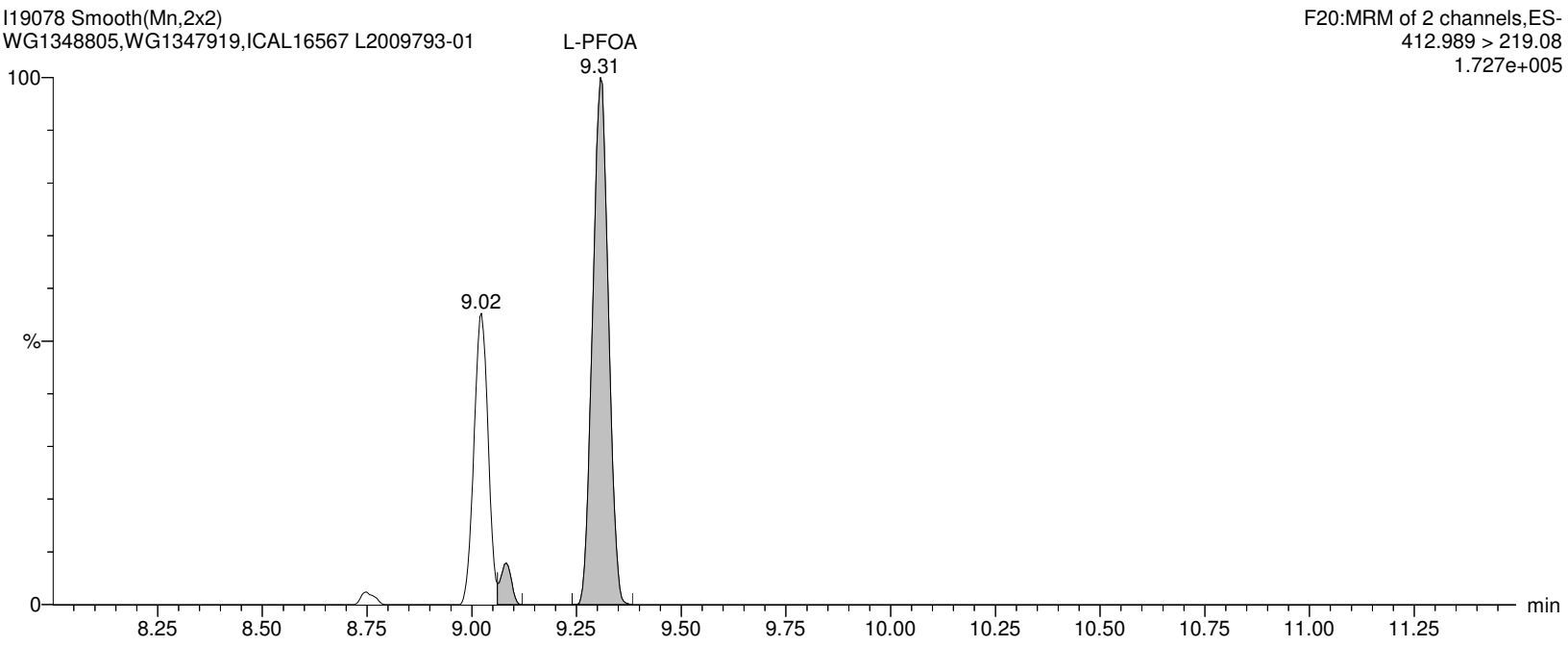

all concentration units in (ng/mL)

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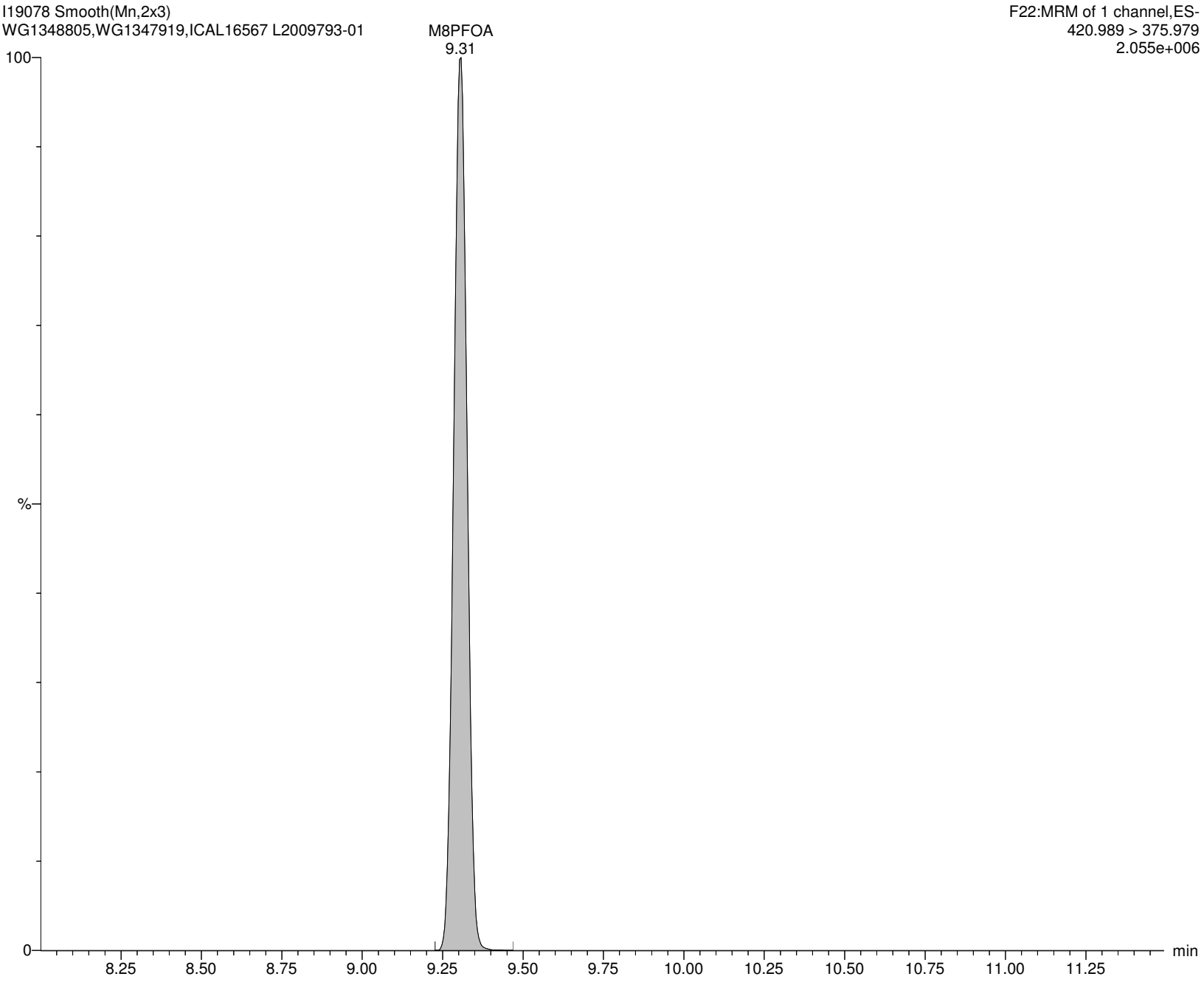

all concentration units in (ng/mL)

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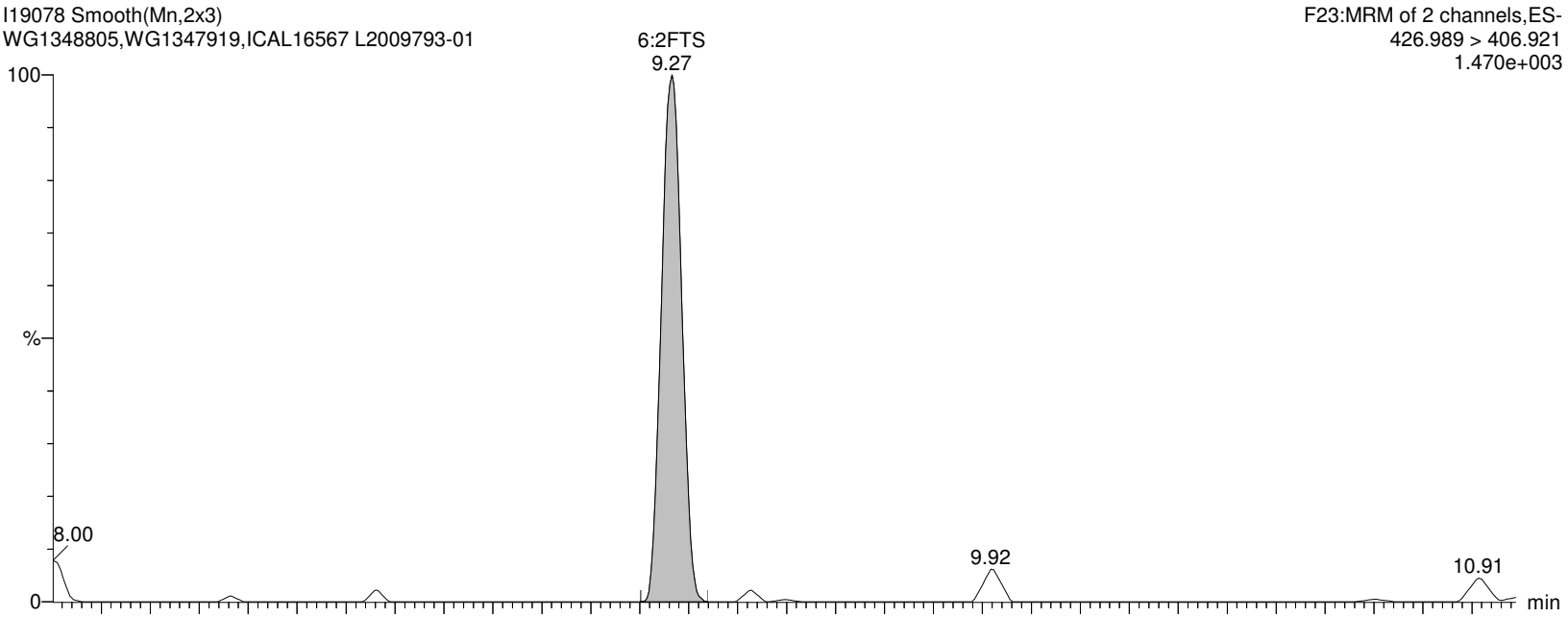
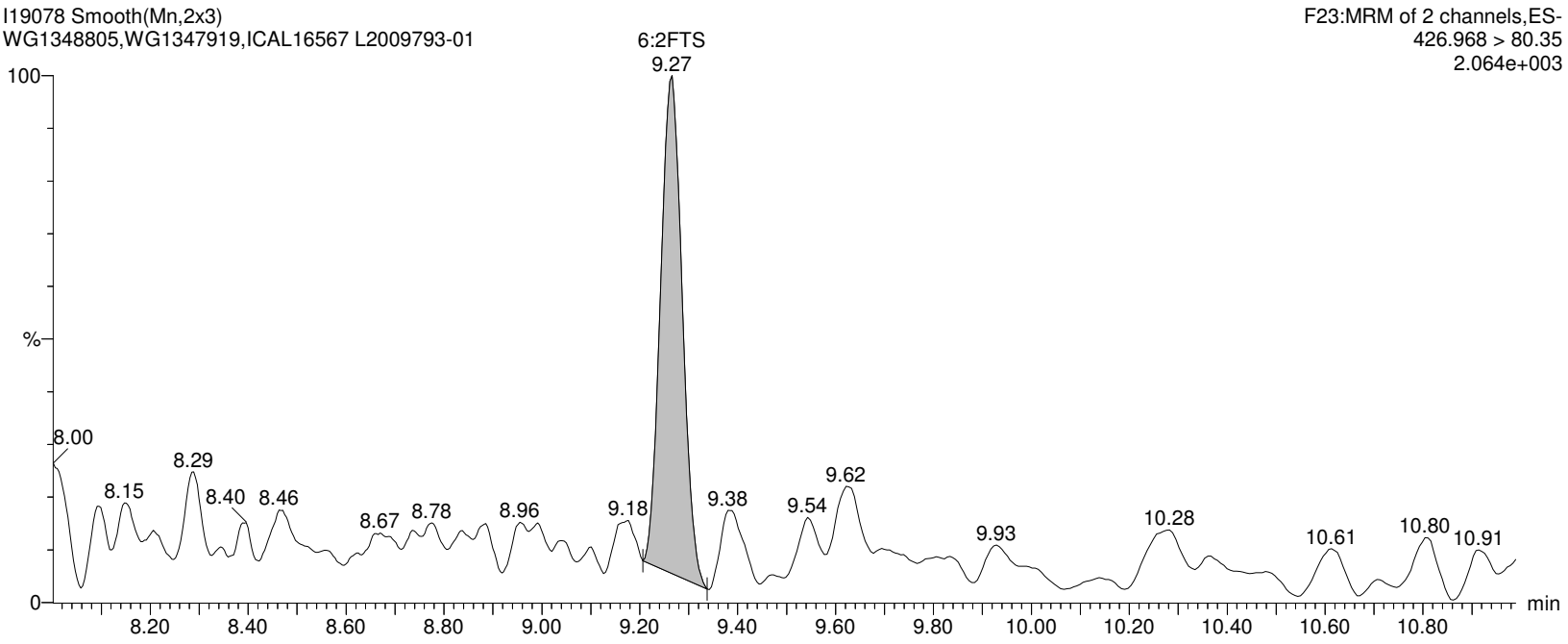
6:2FTS





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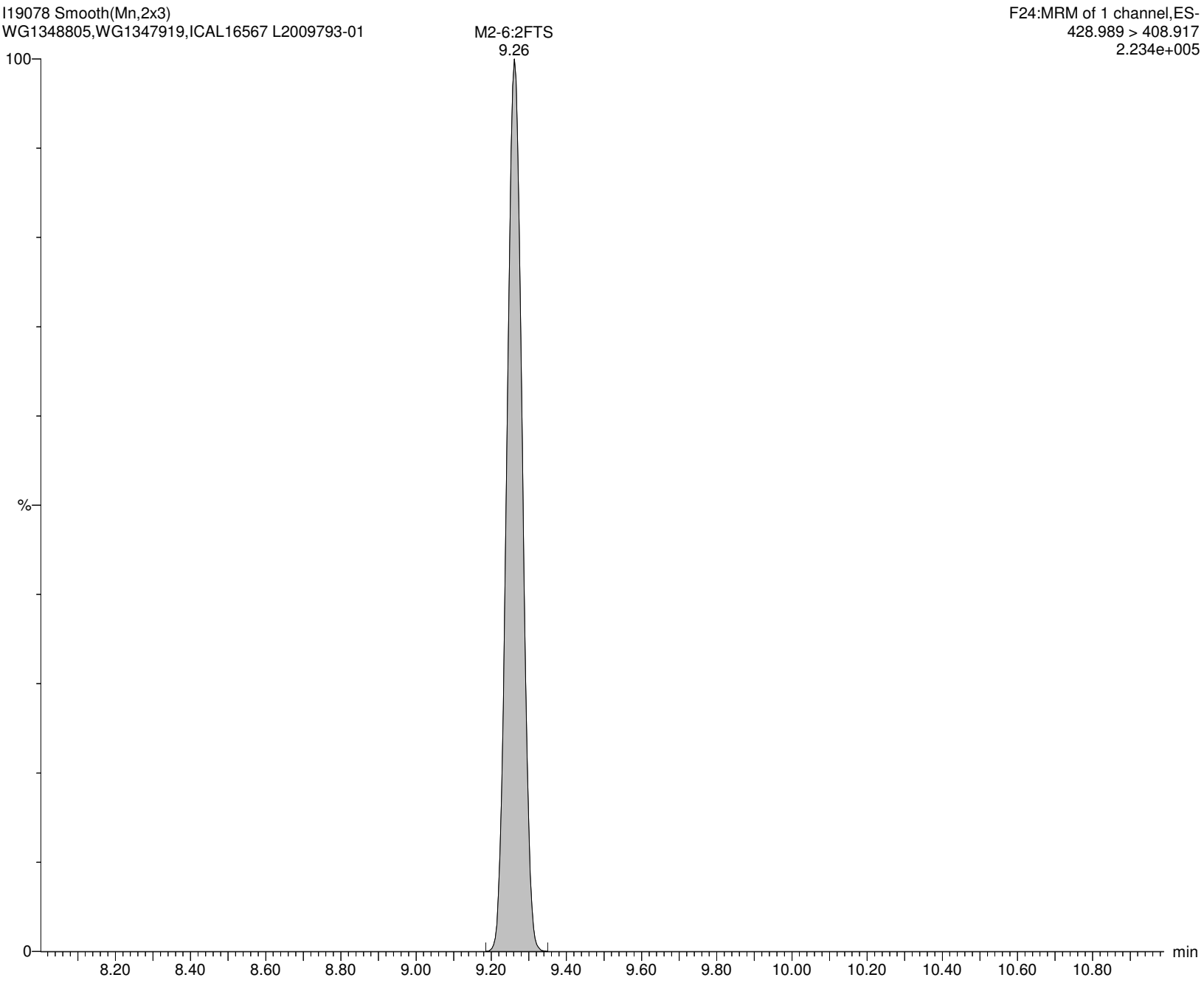

all concentration units in (ng/mL)

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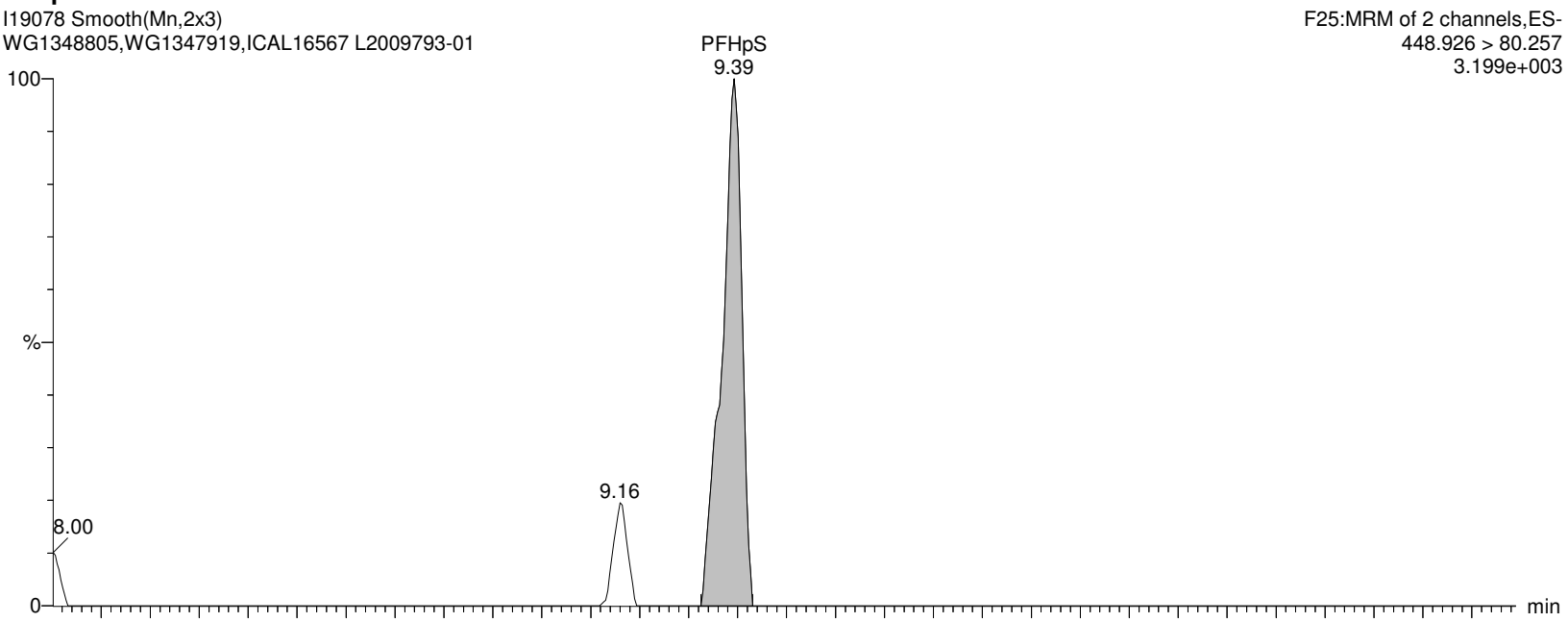

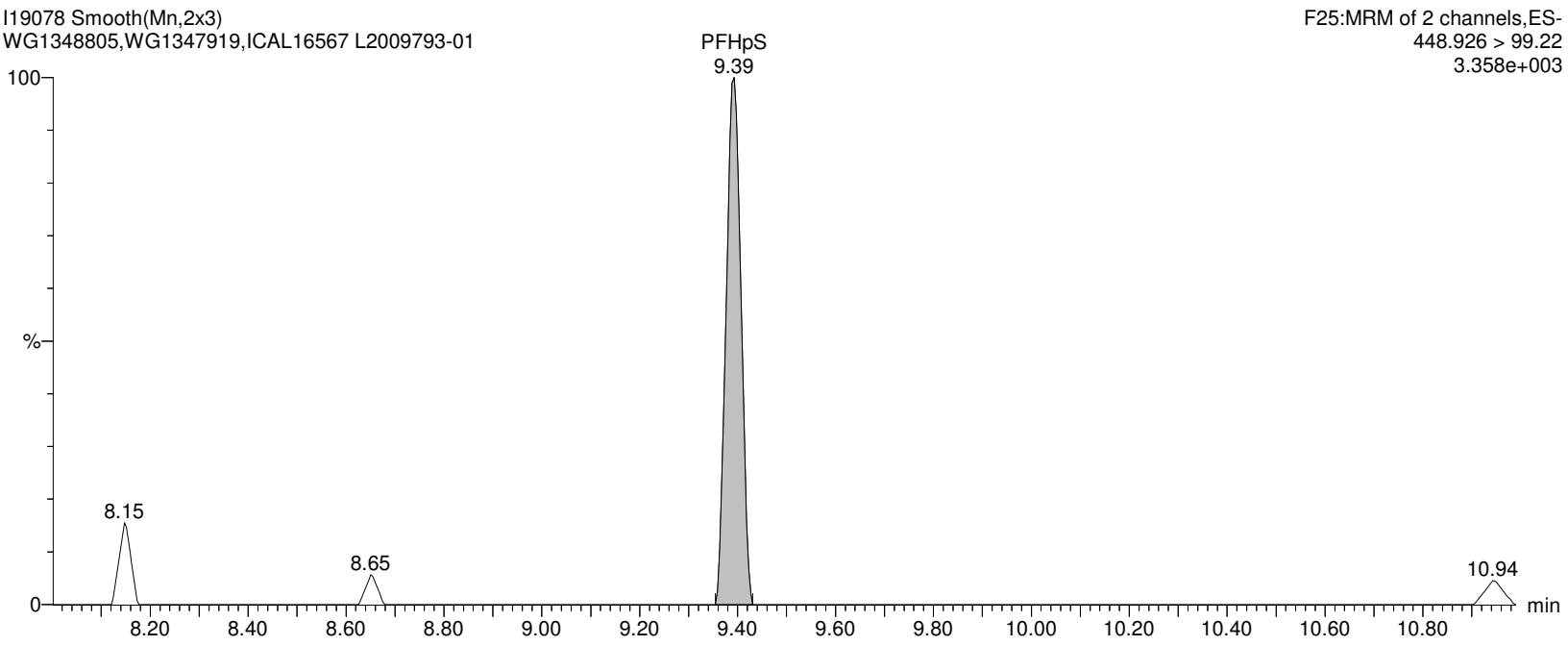

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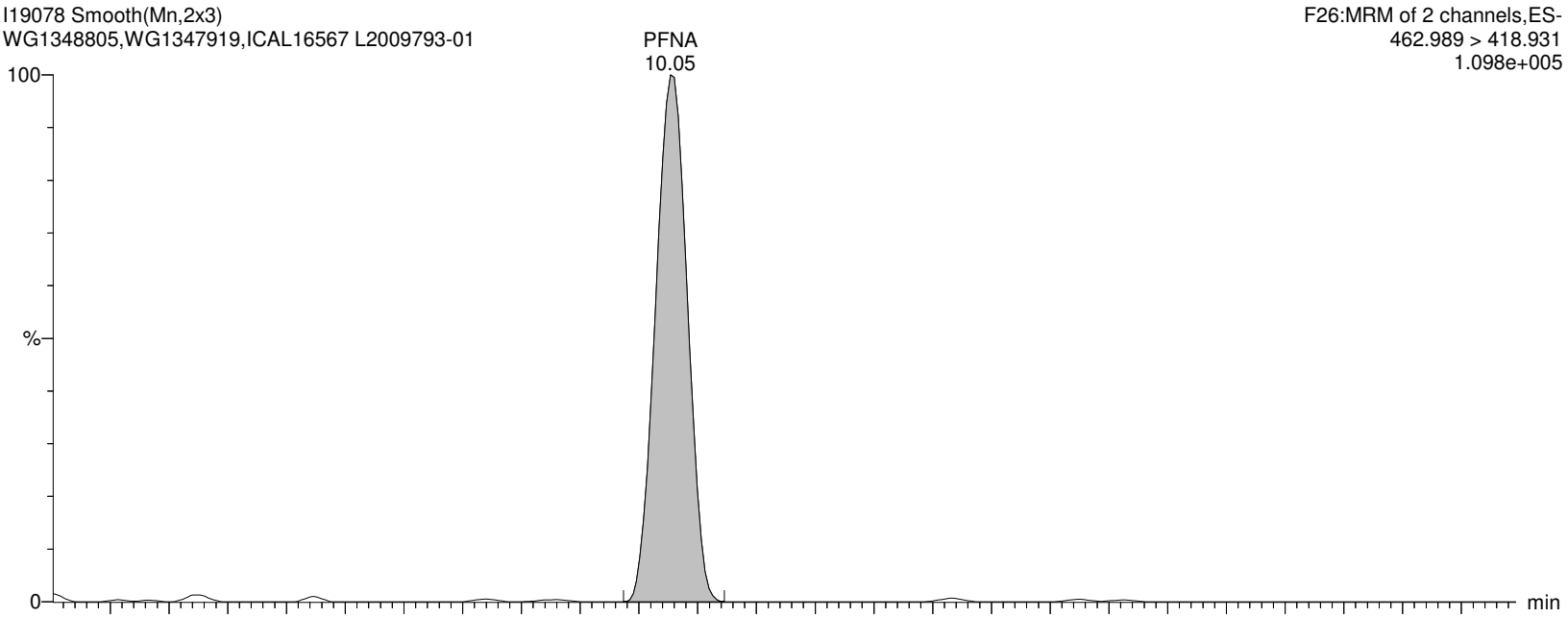

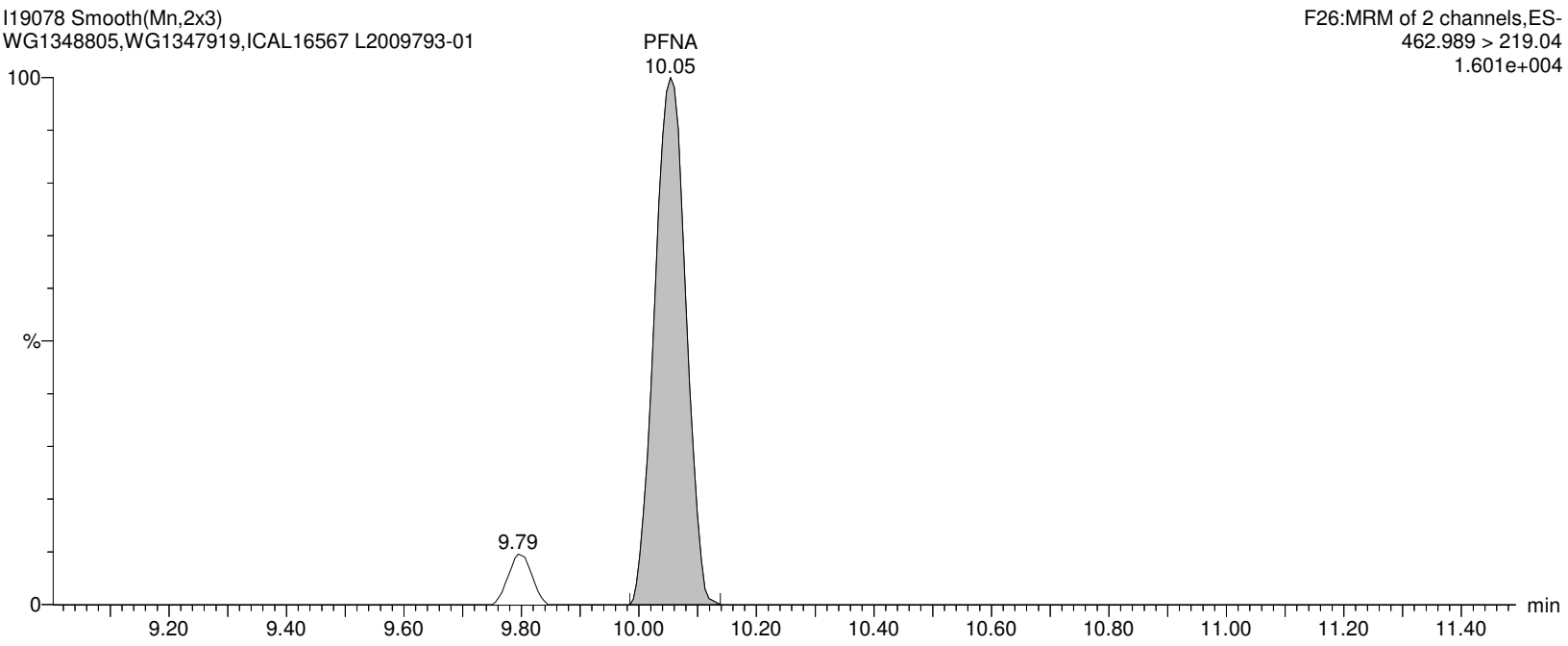

all concentration units in (ng/mL)

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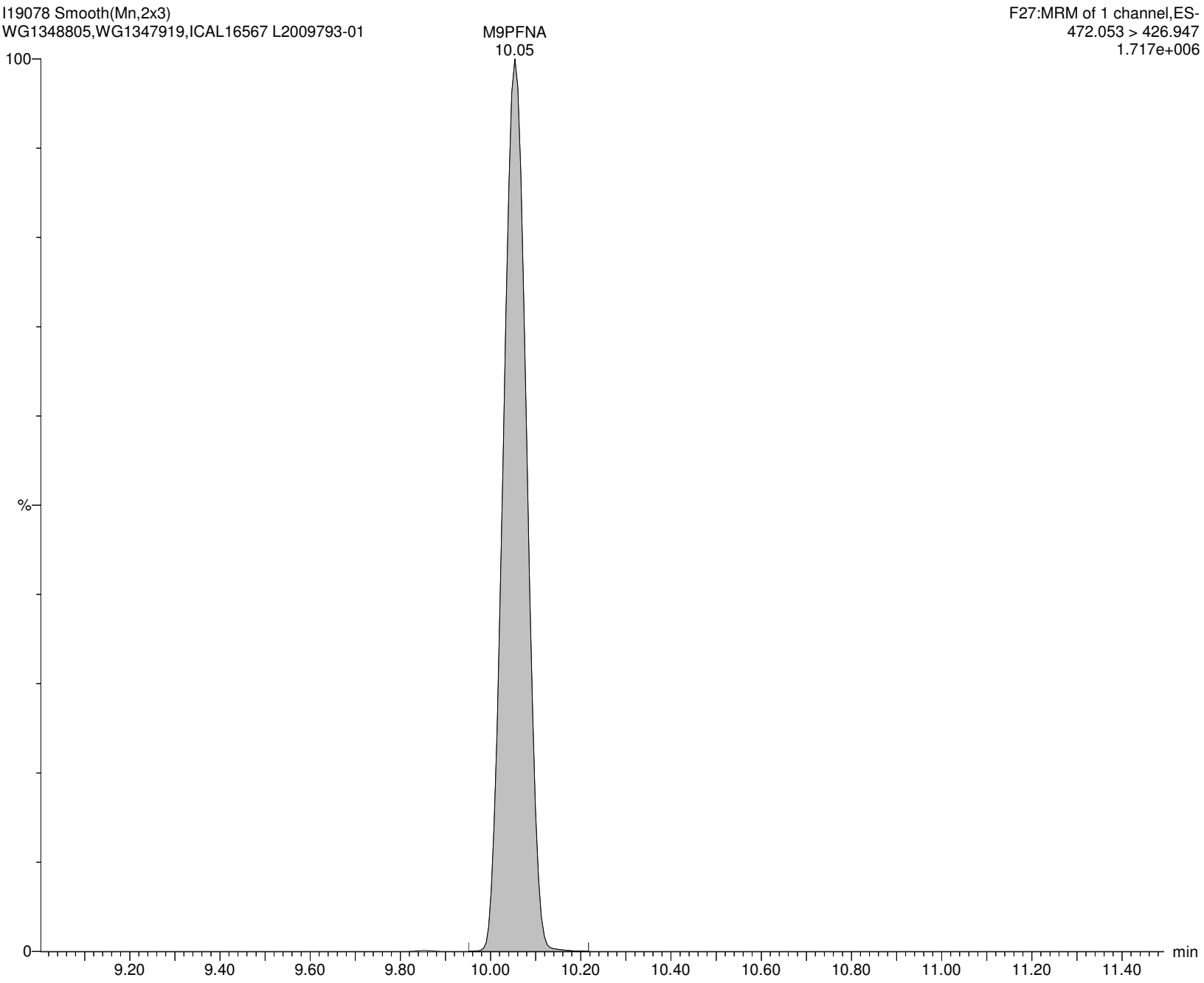

all concentration units in (ng/mL)

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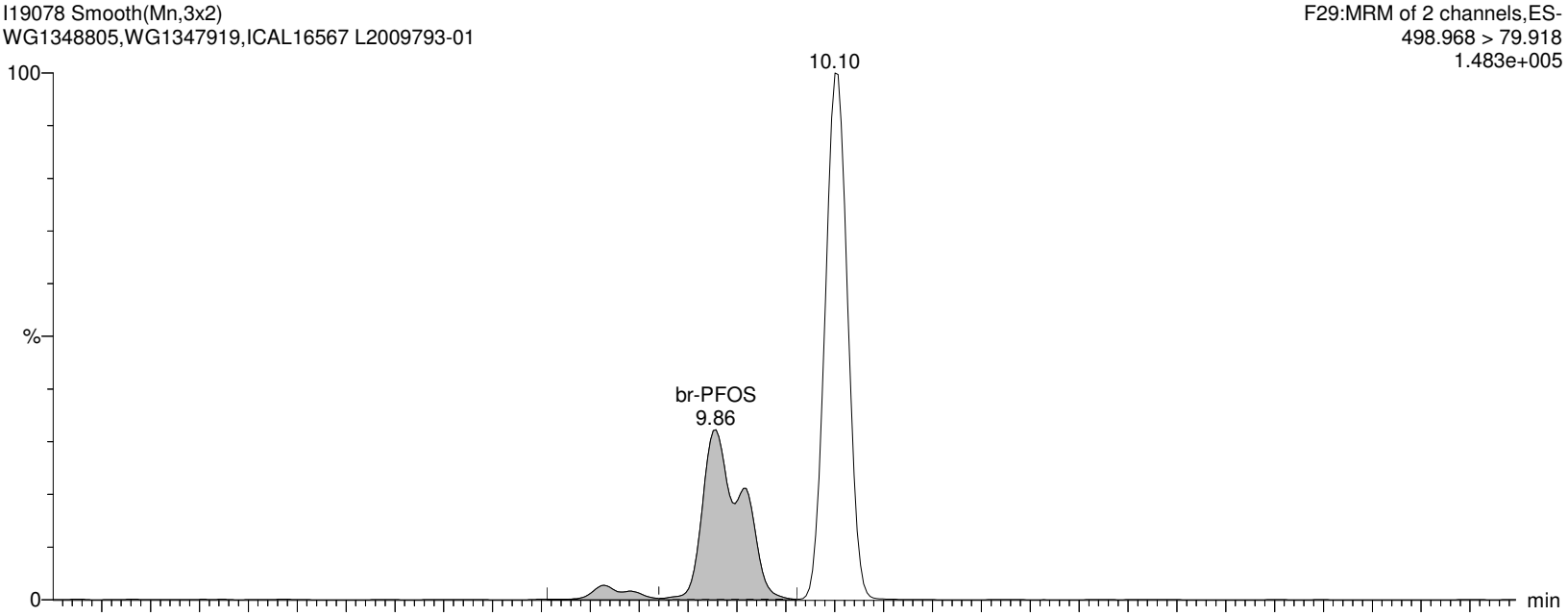

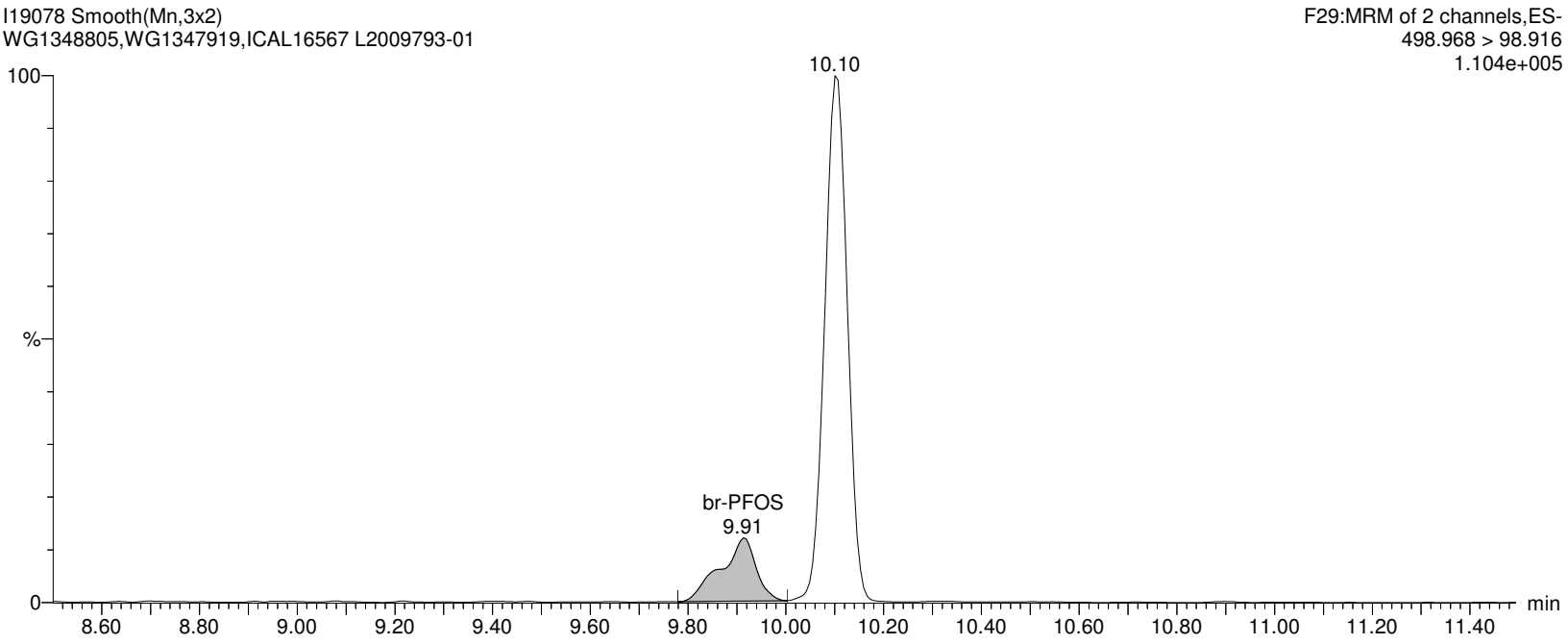

all concentration units in (ng/mL)

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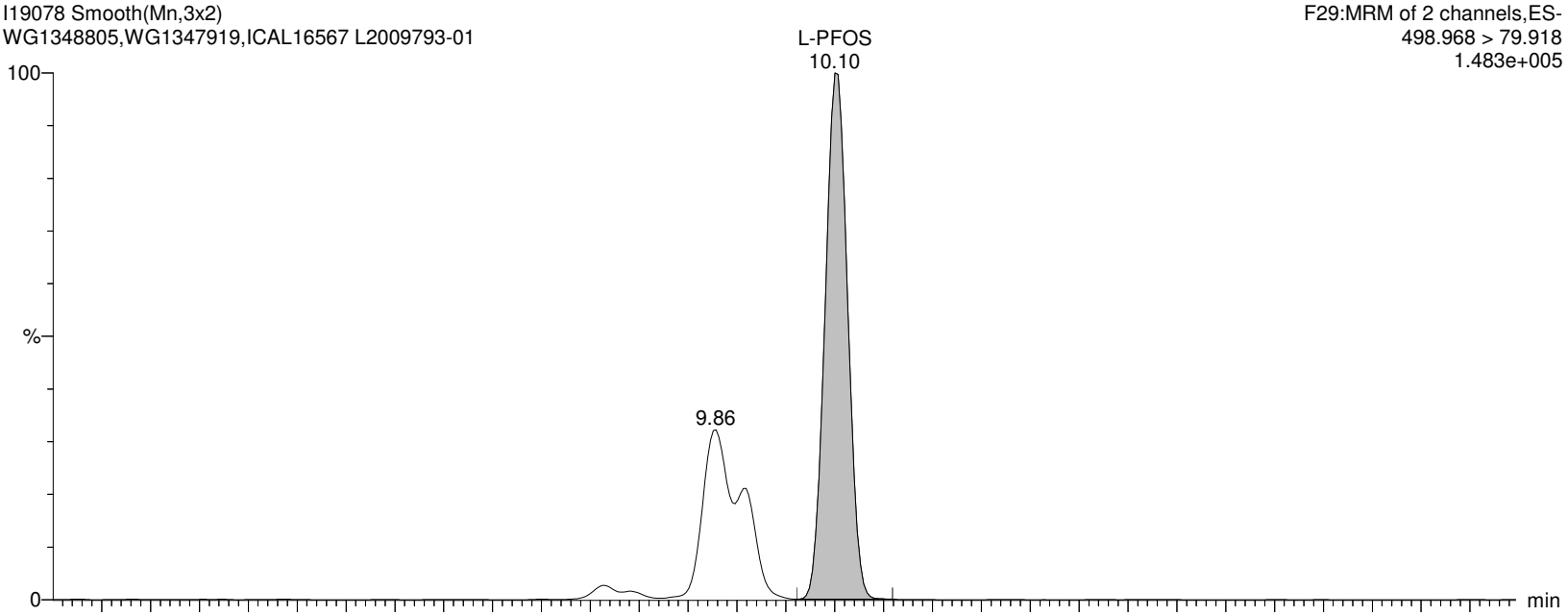

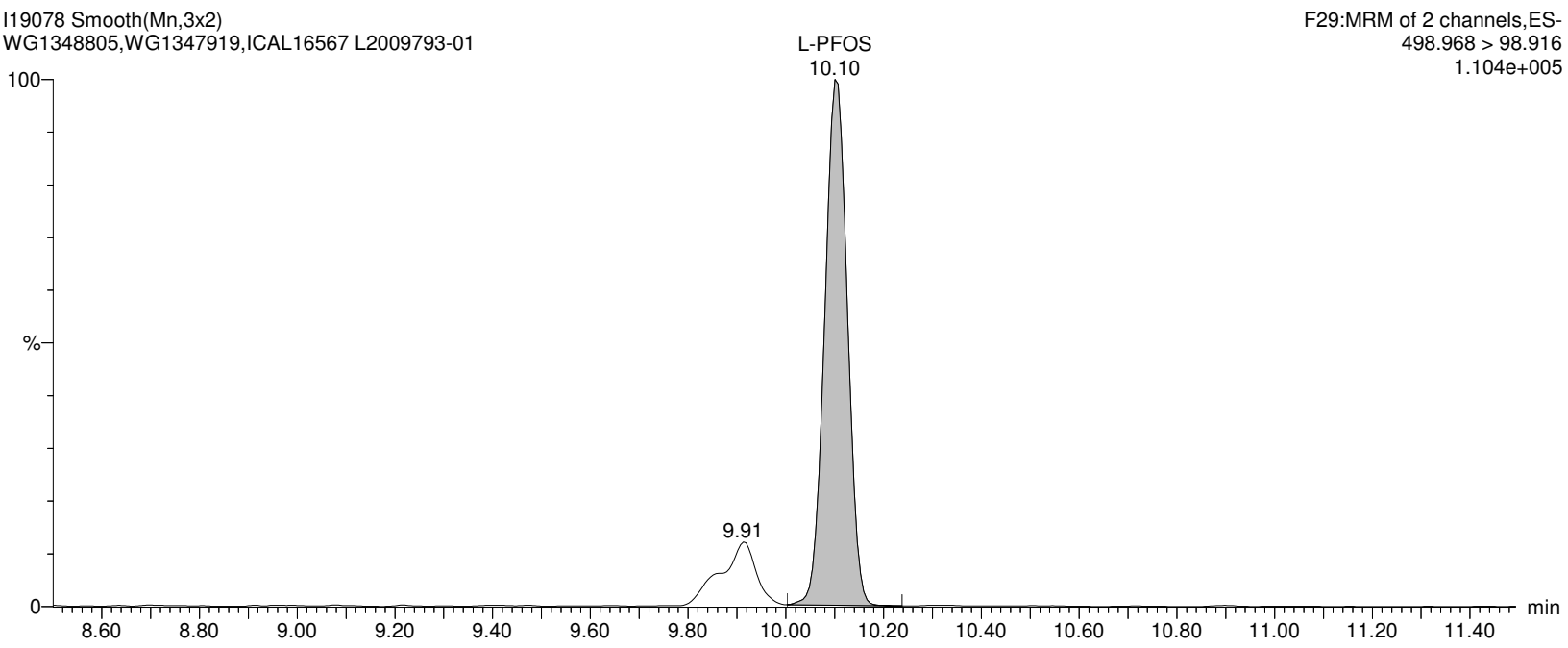

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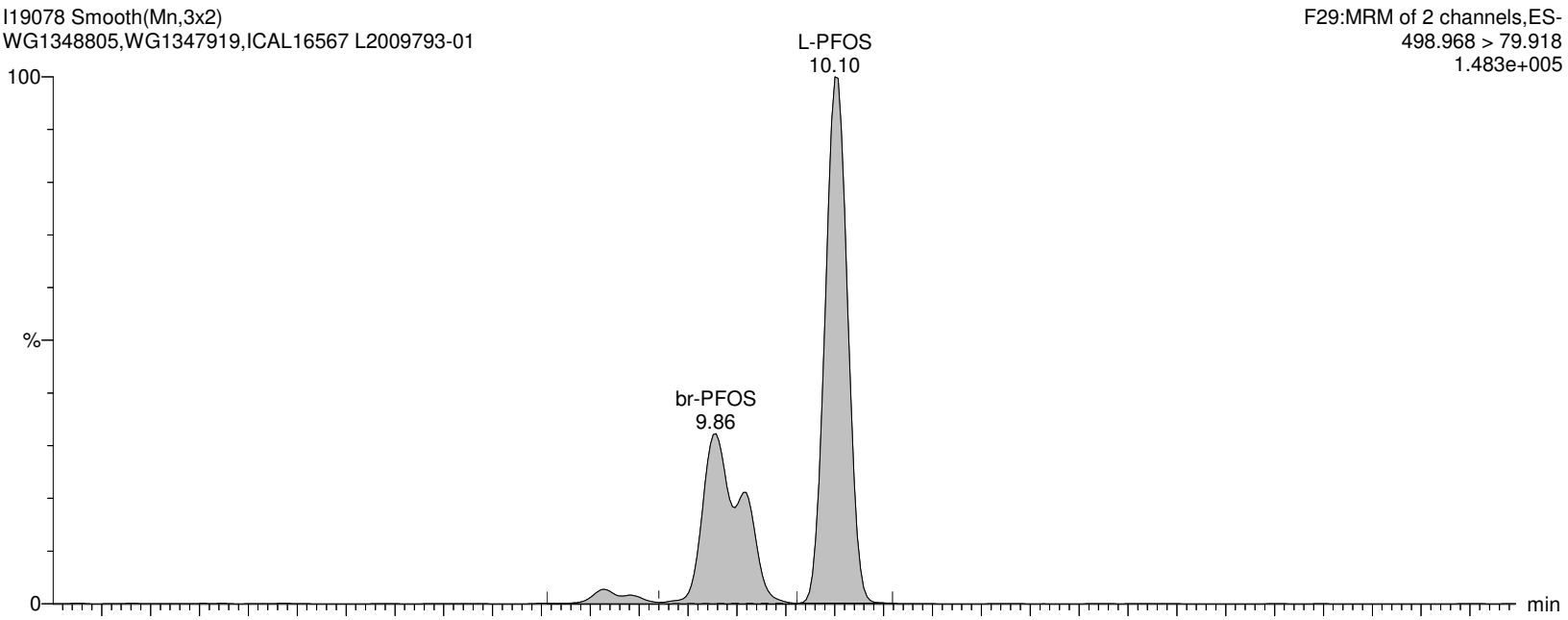

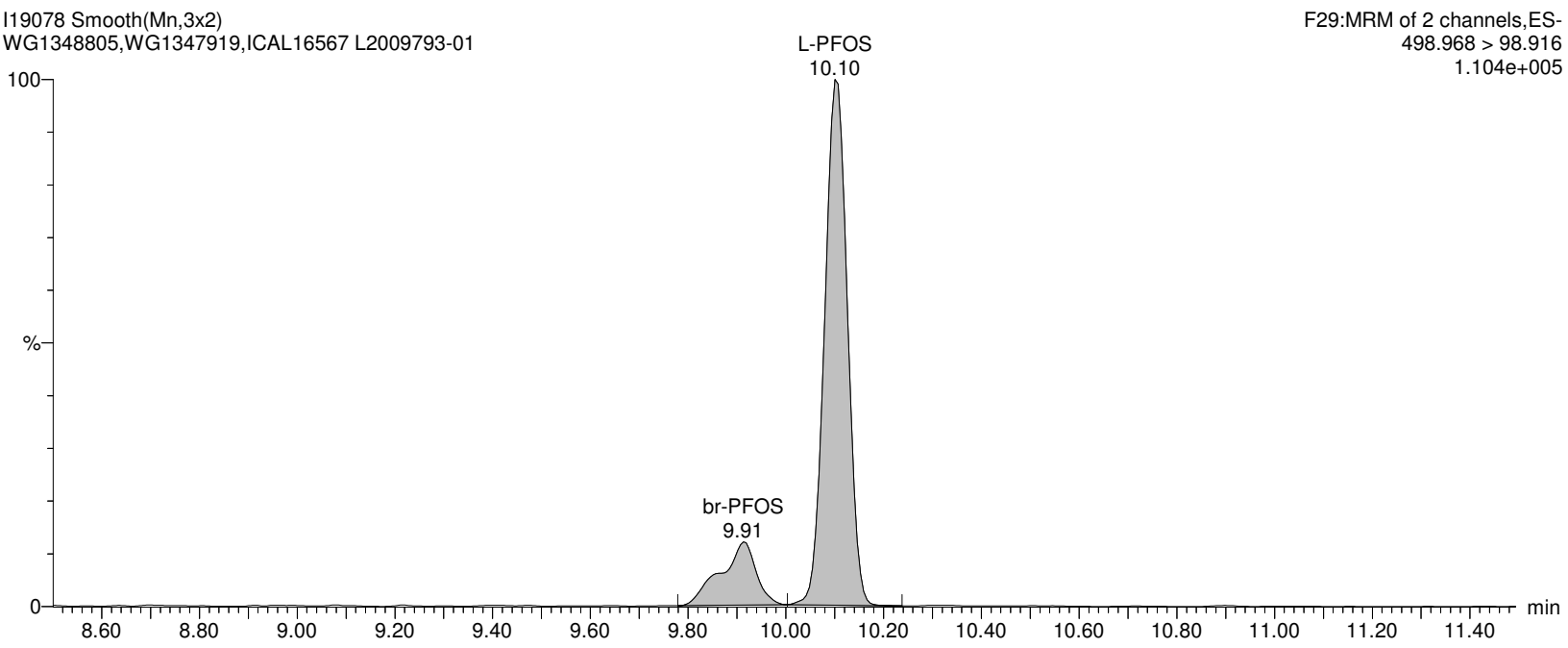

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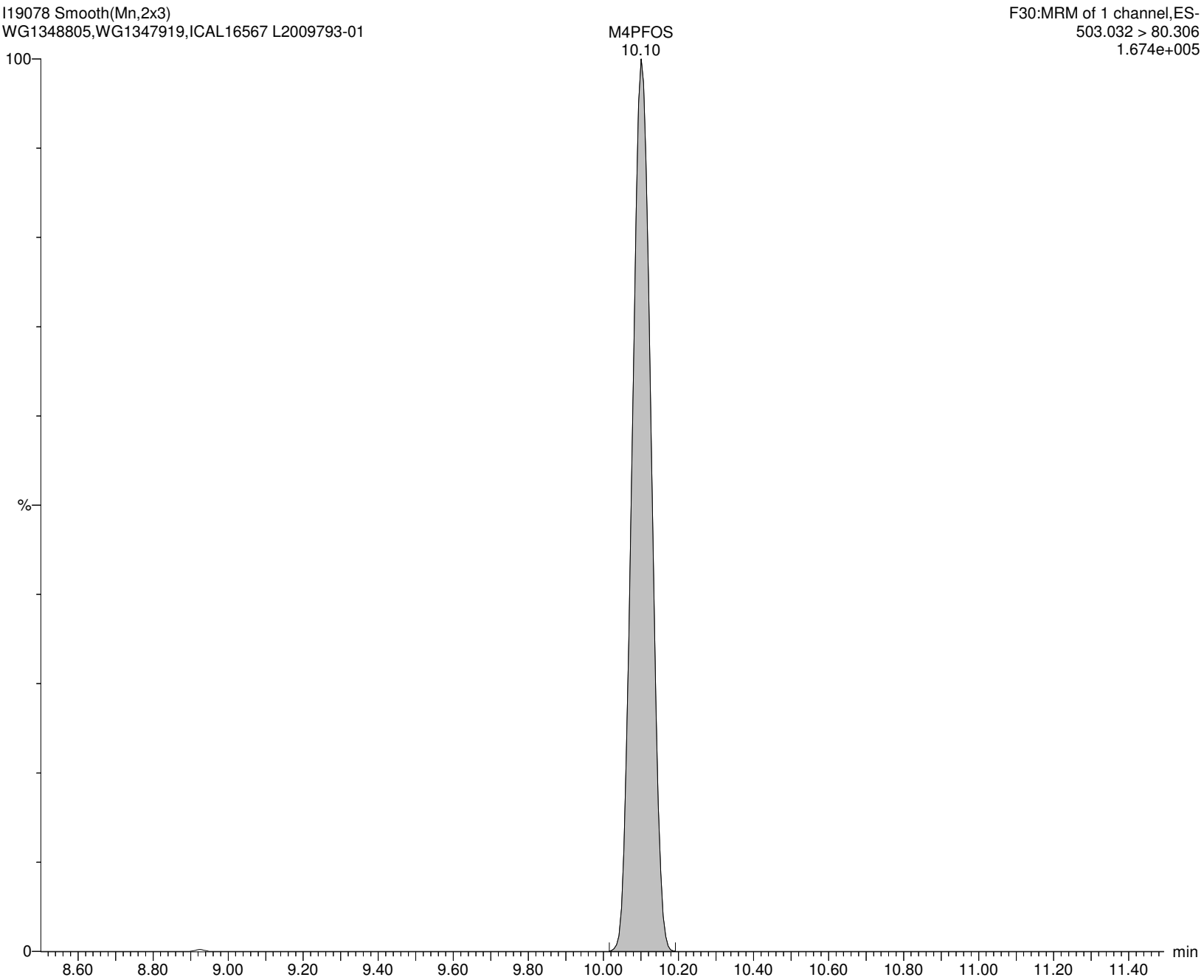

all concentration units in (ng/mL)

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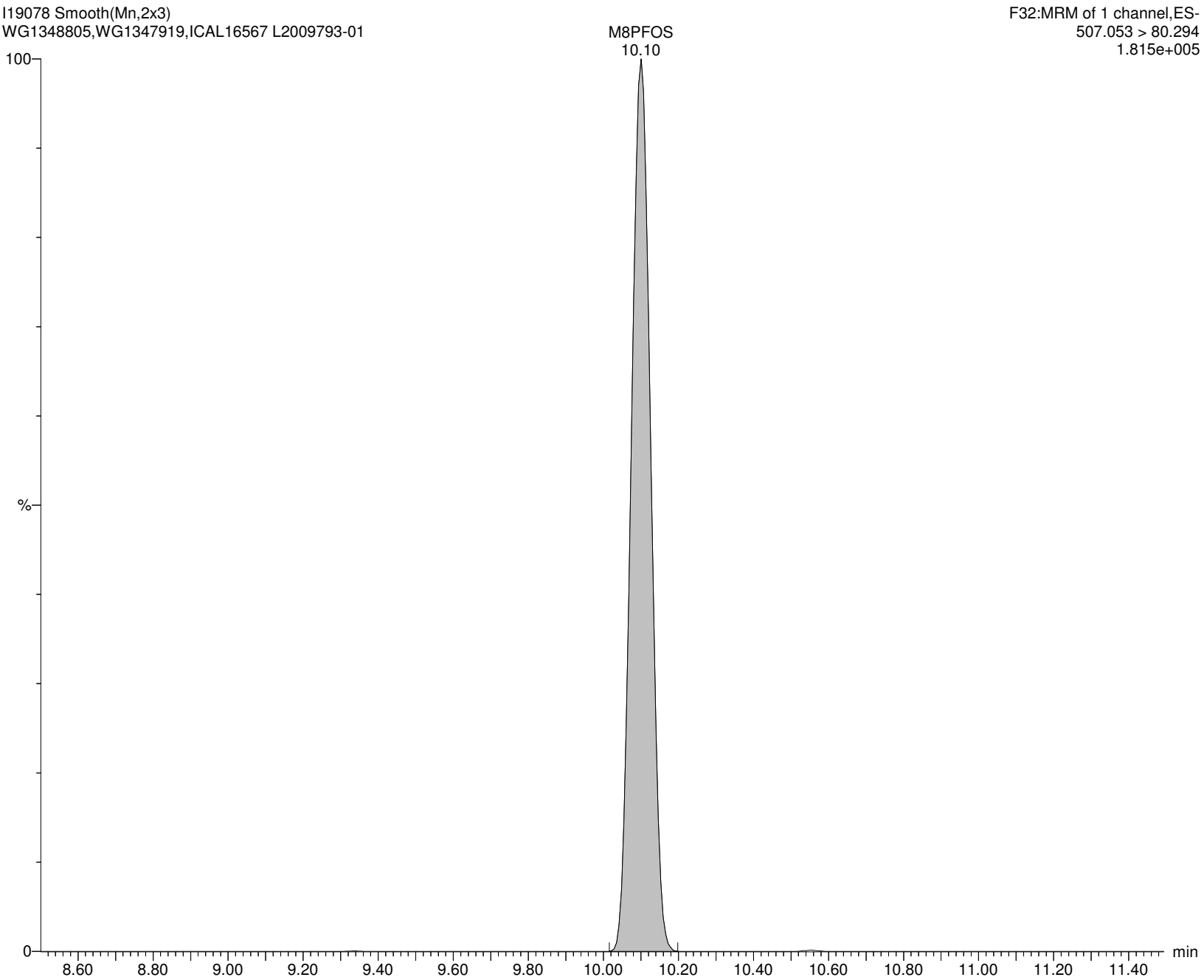
M8PFOS



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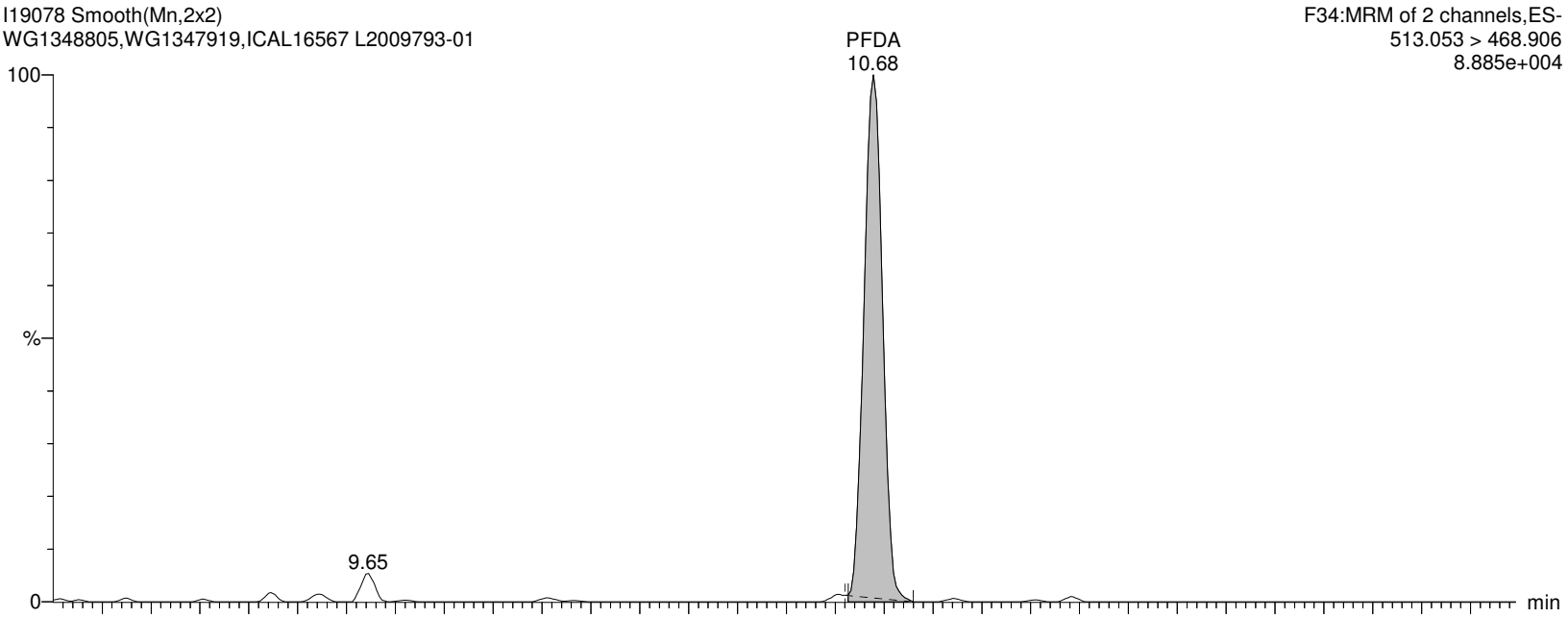

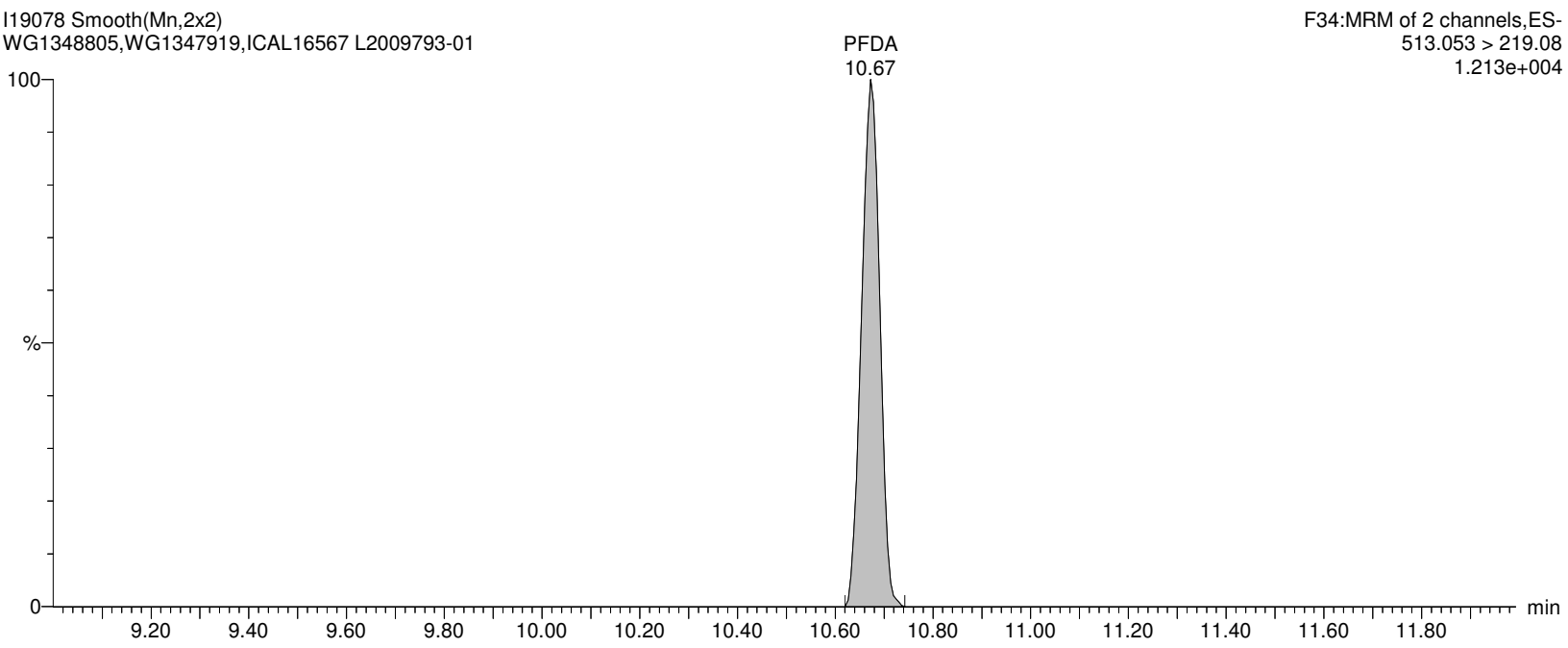

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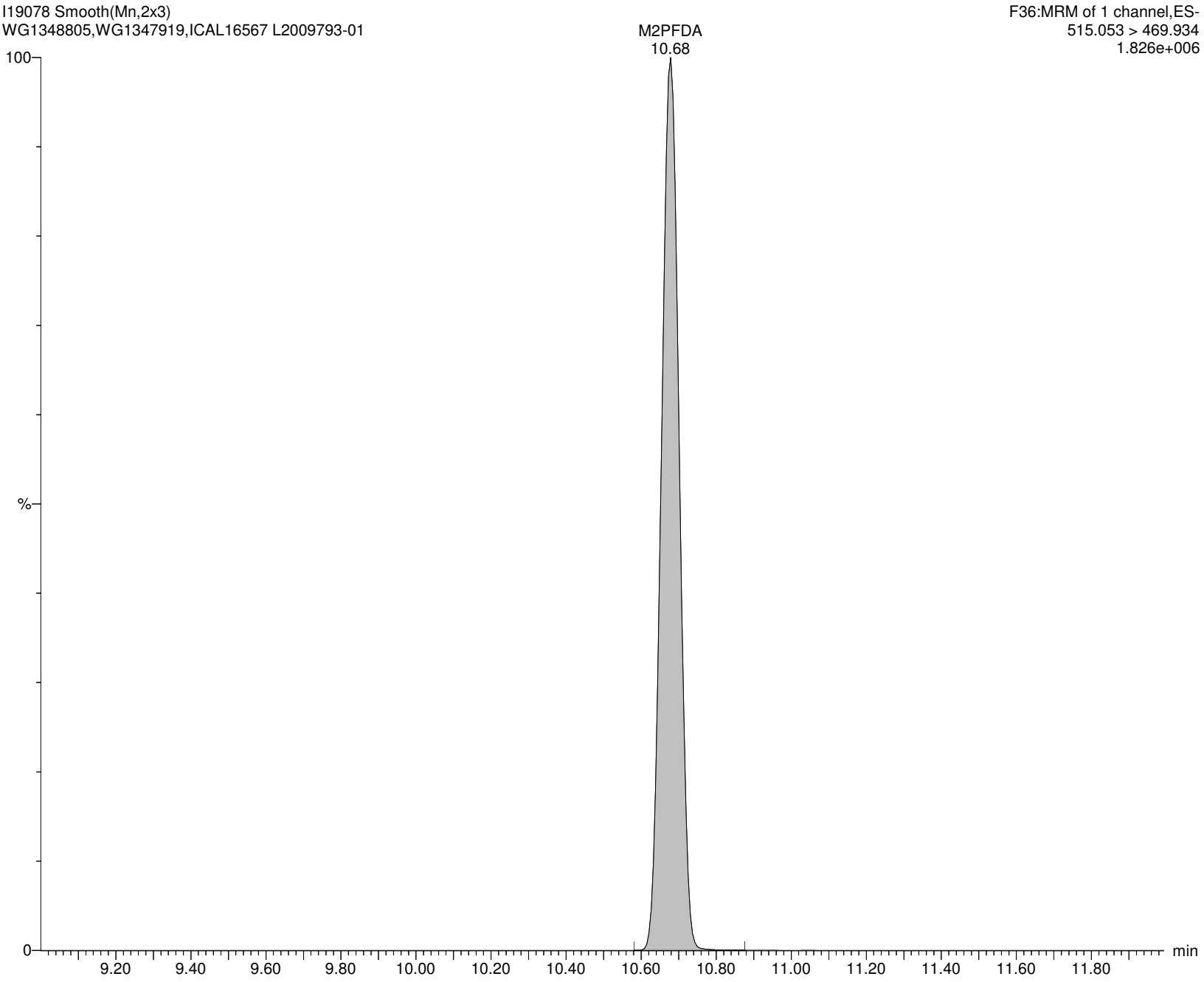
M2PFDA



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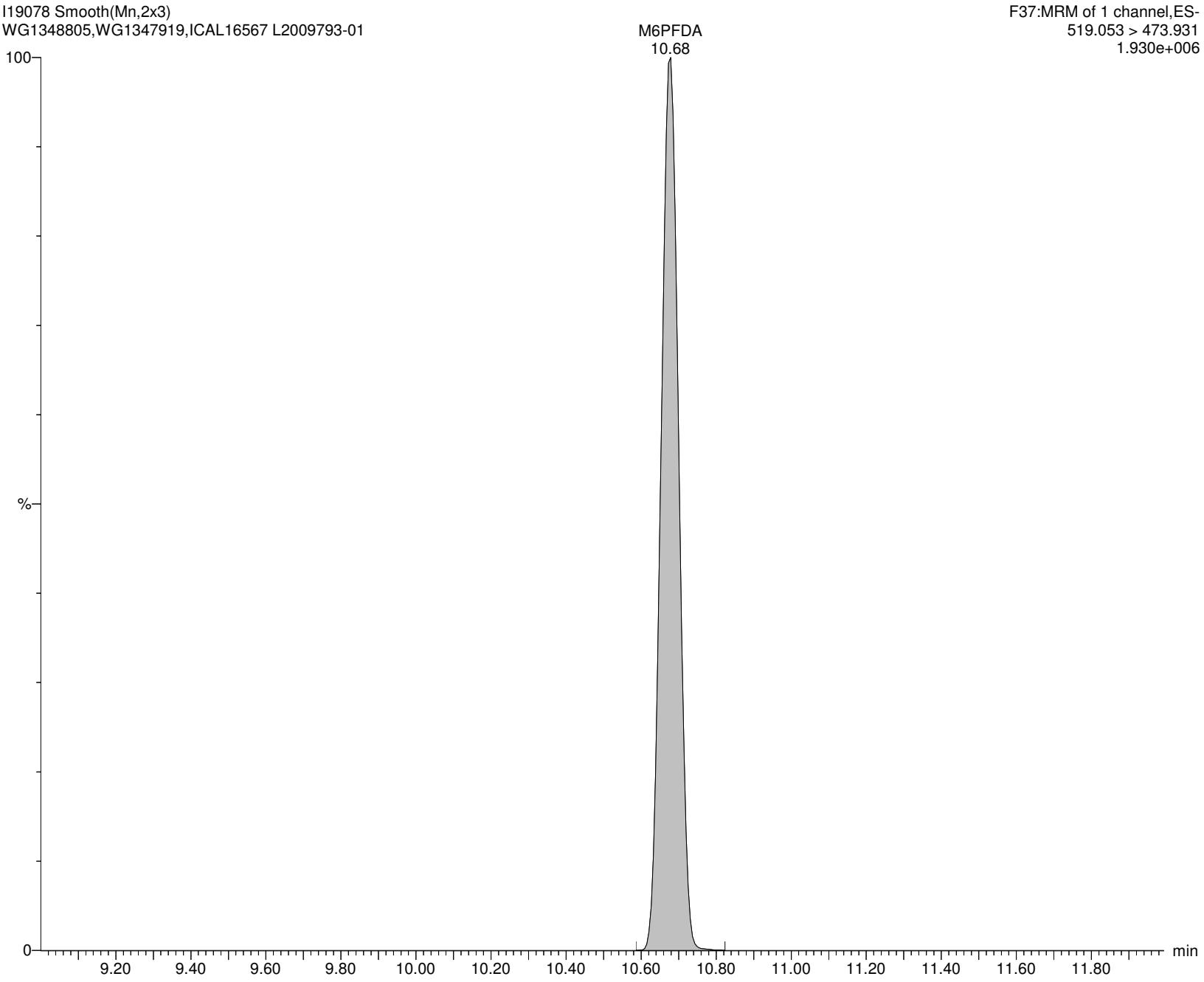

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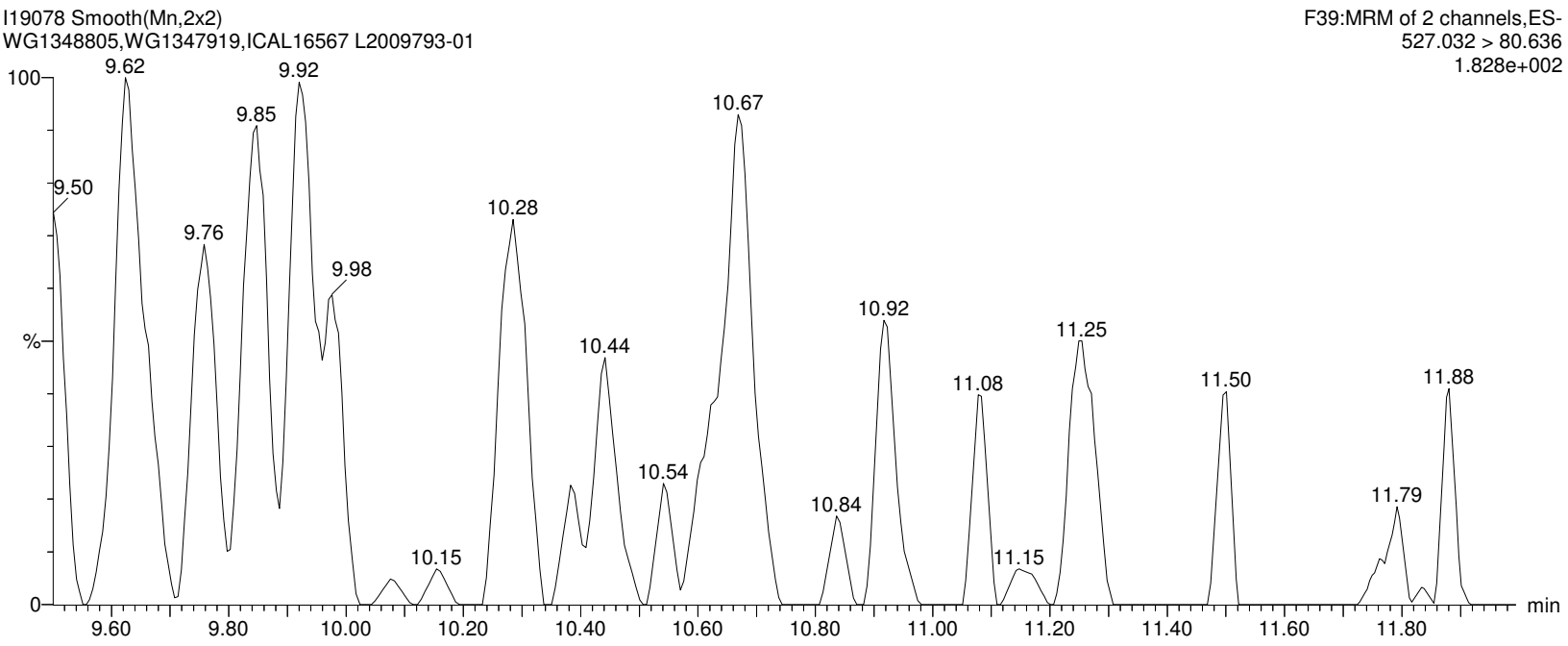

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
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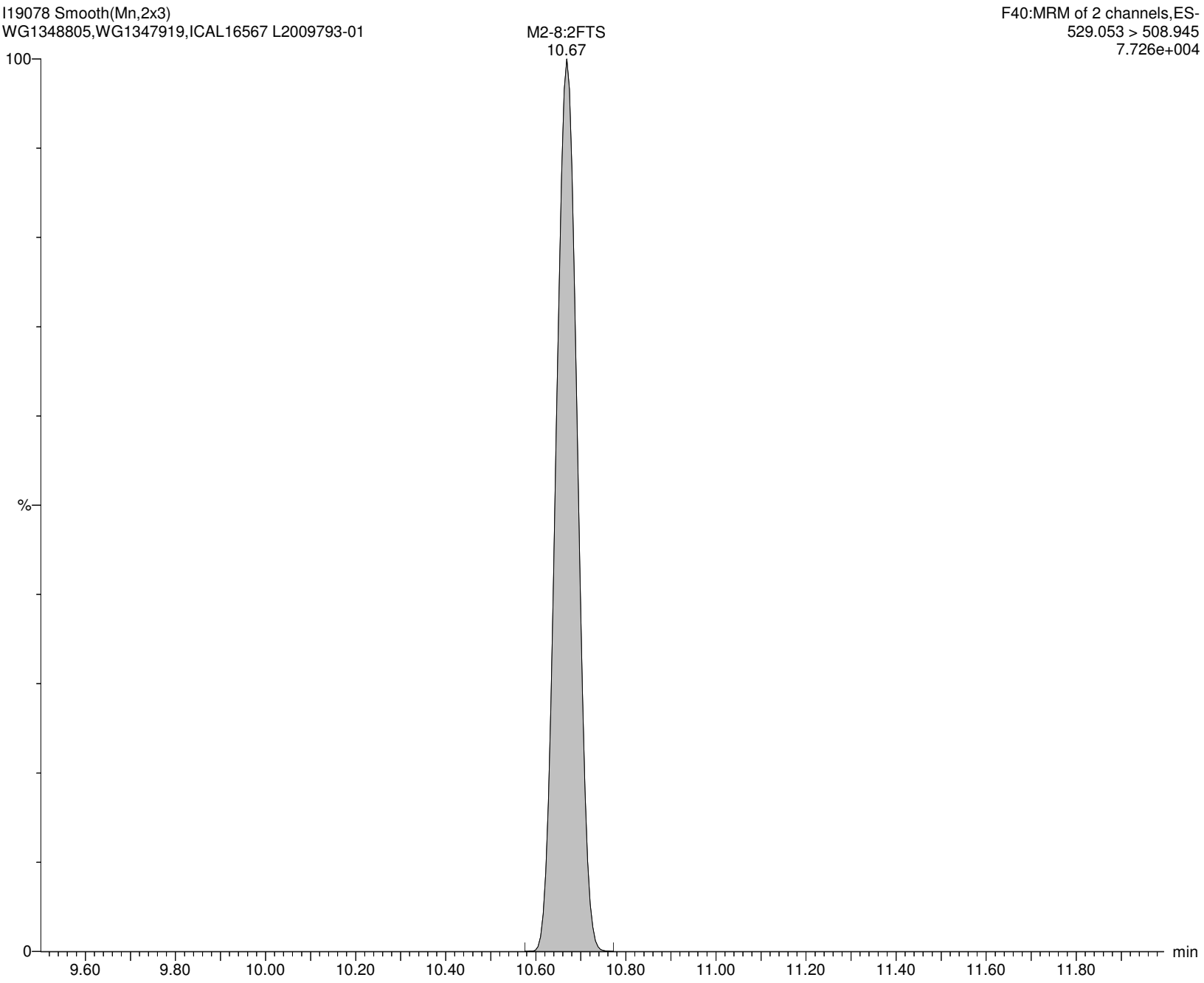

all concentration units in (ng/mL)

Alpha Analytical Inc.
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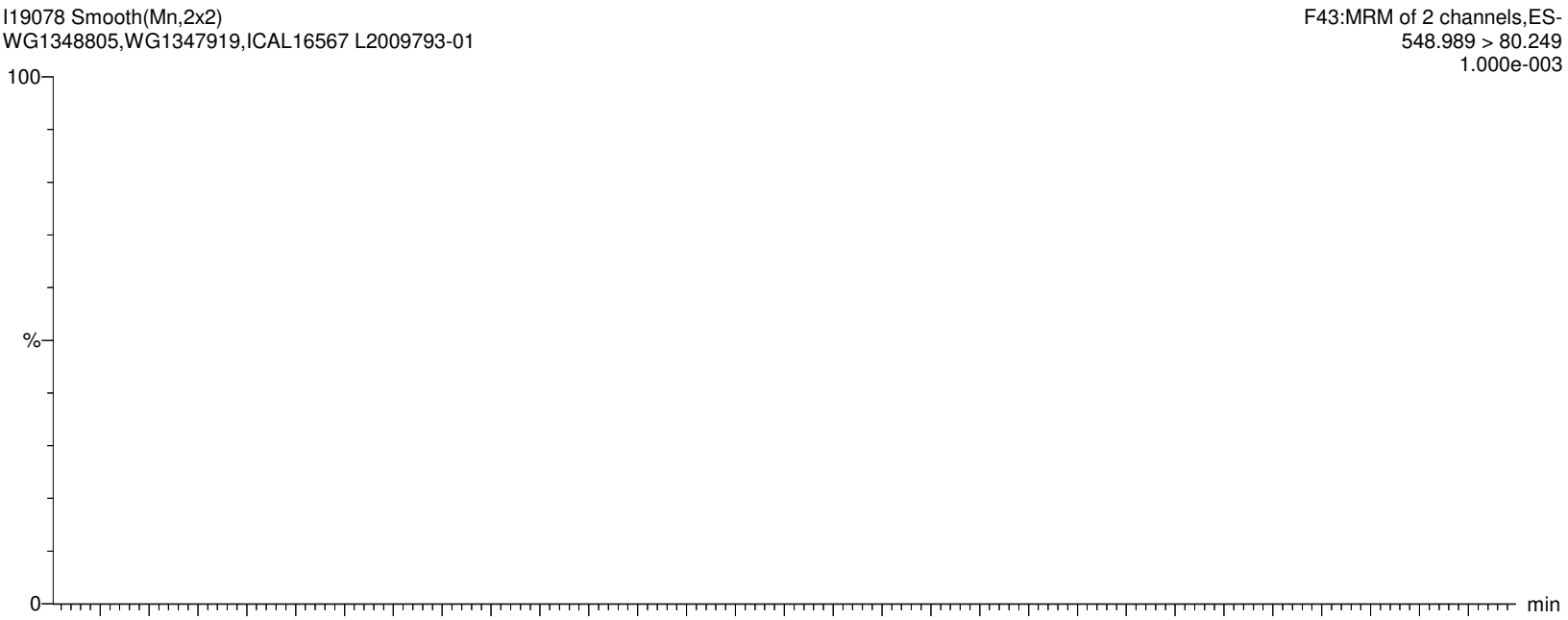

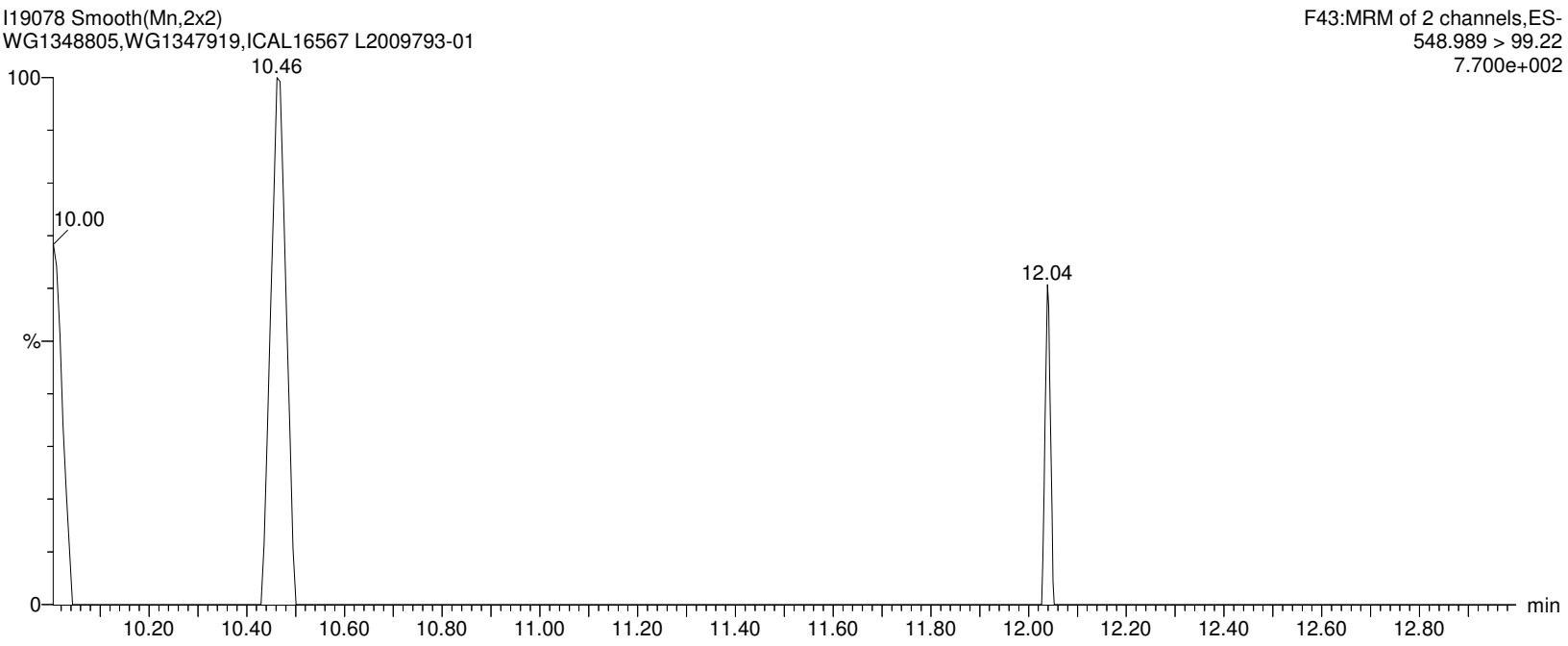

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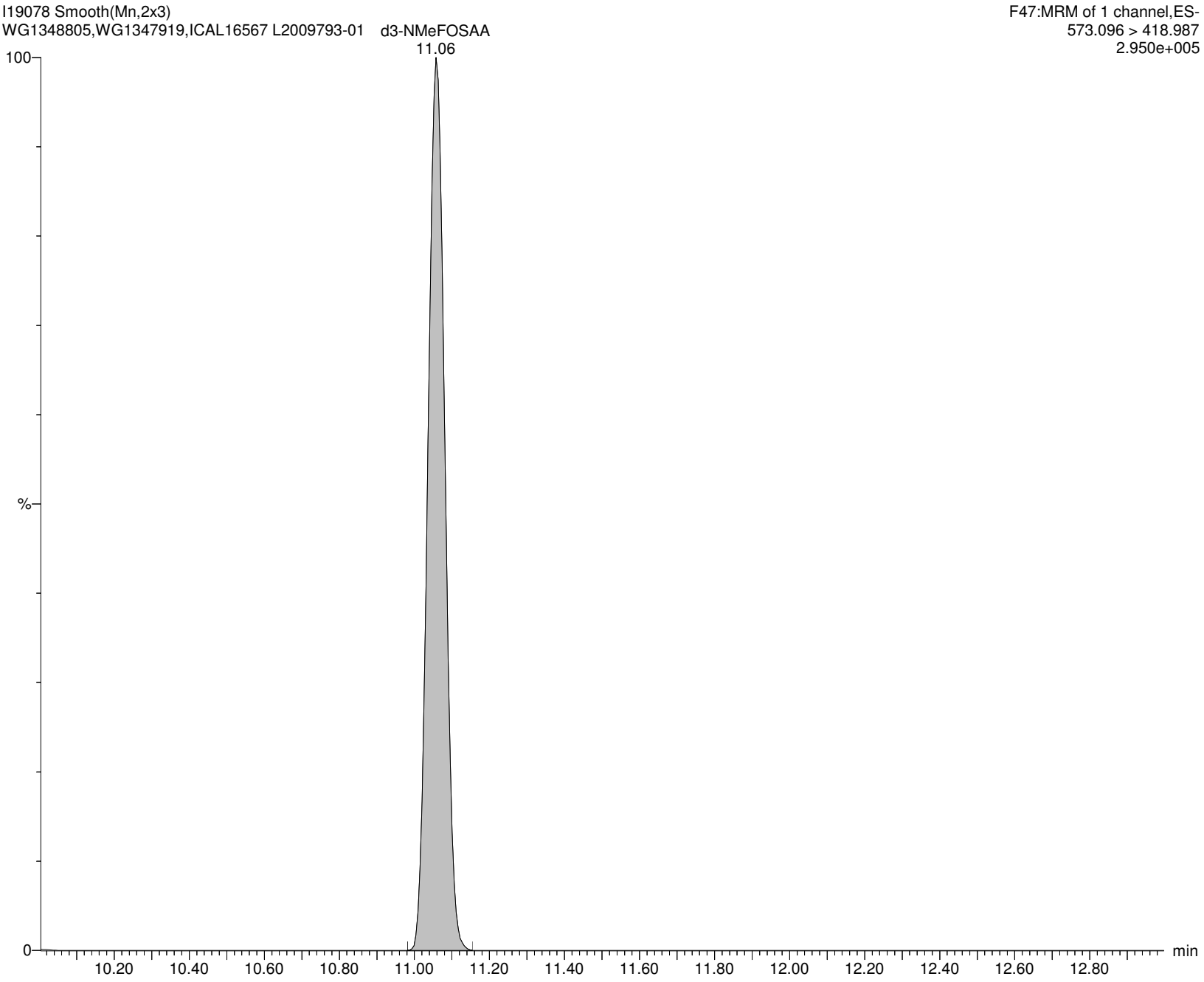

all concentration units in (ng/mL)

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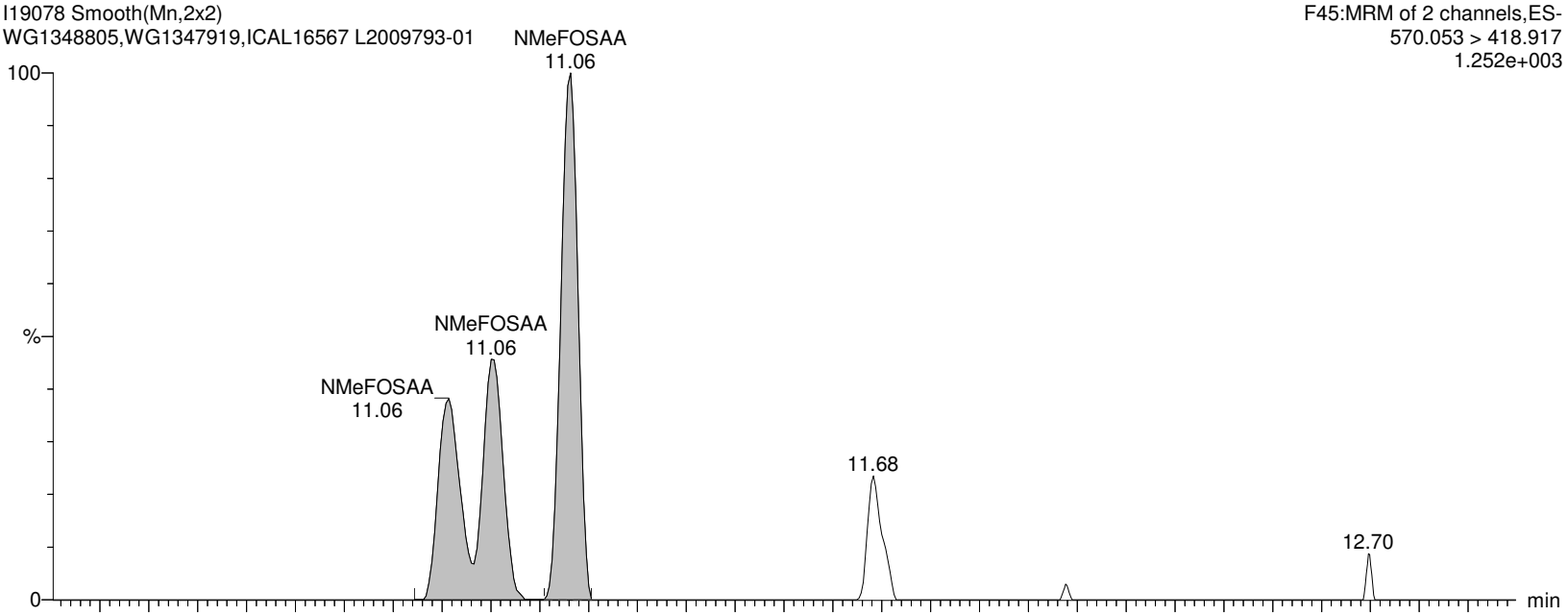

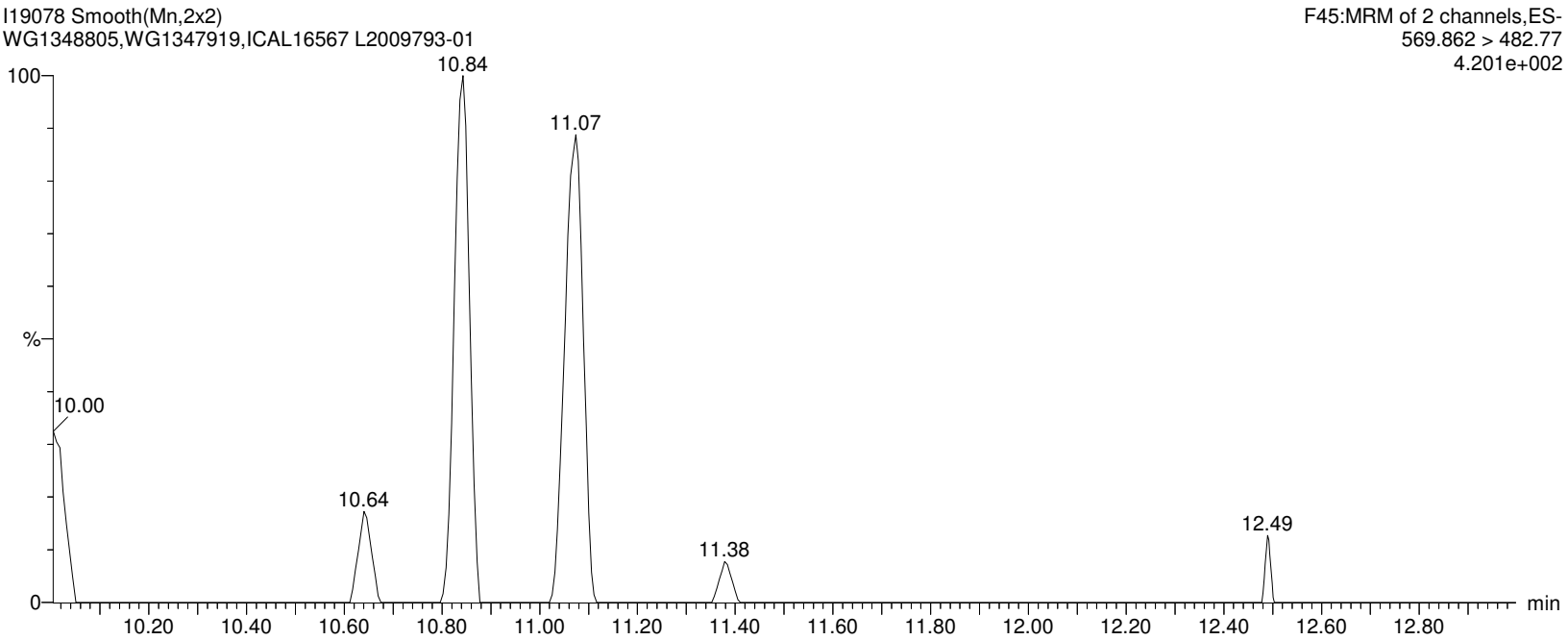

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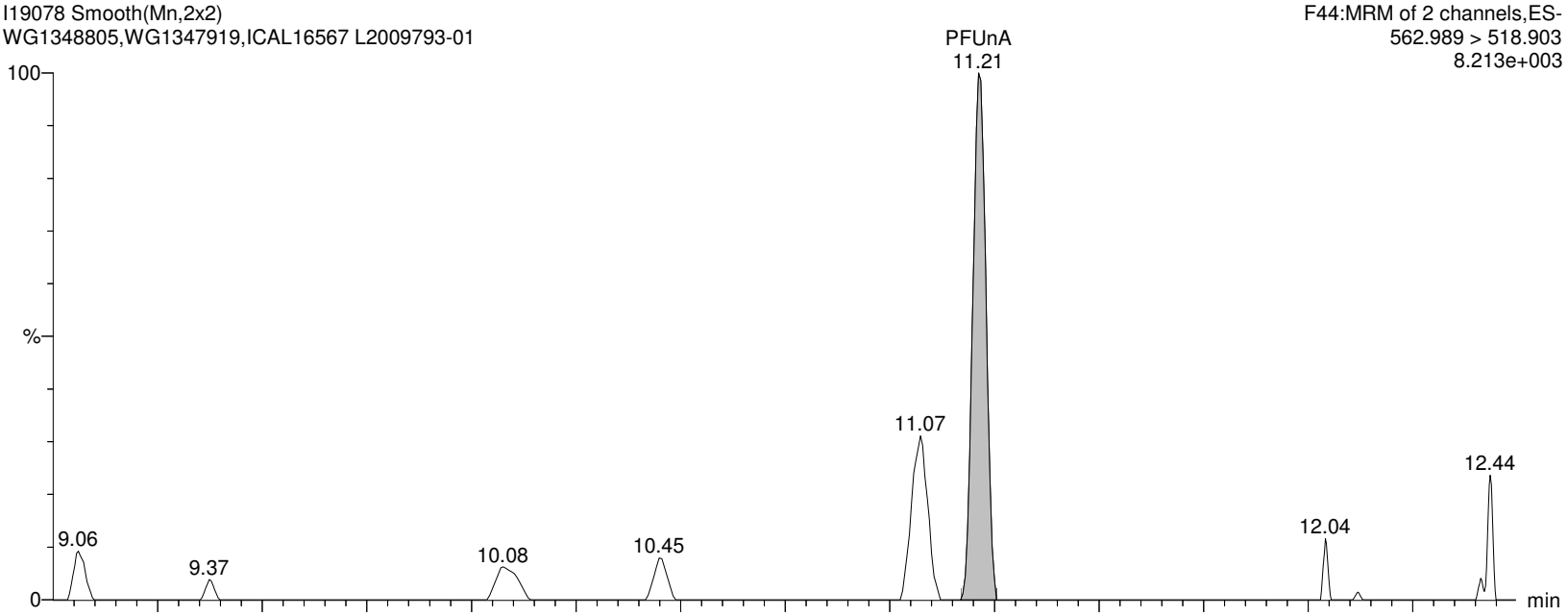

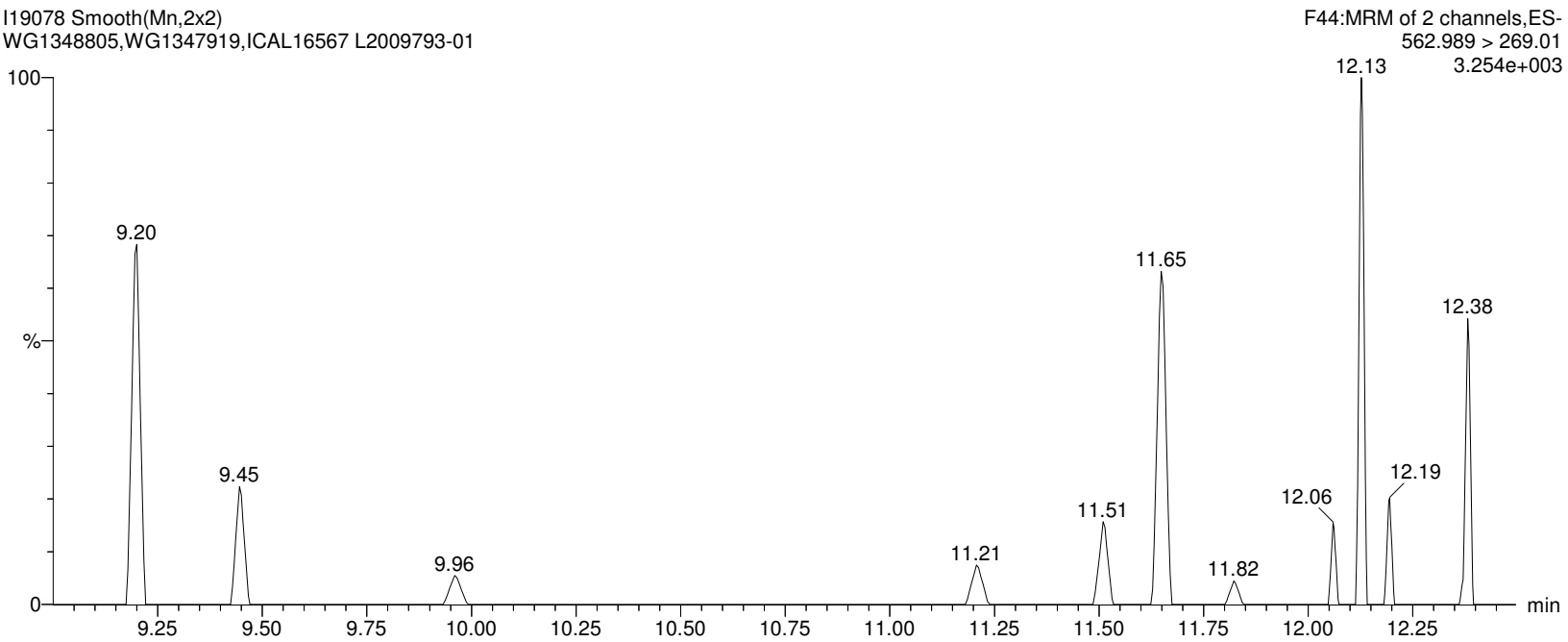

all concentration units in (ng/mL)

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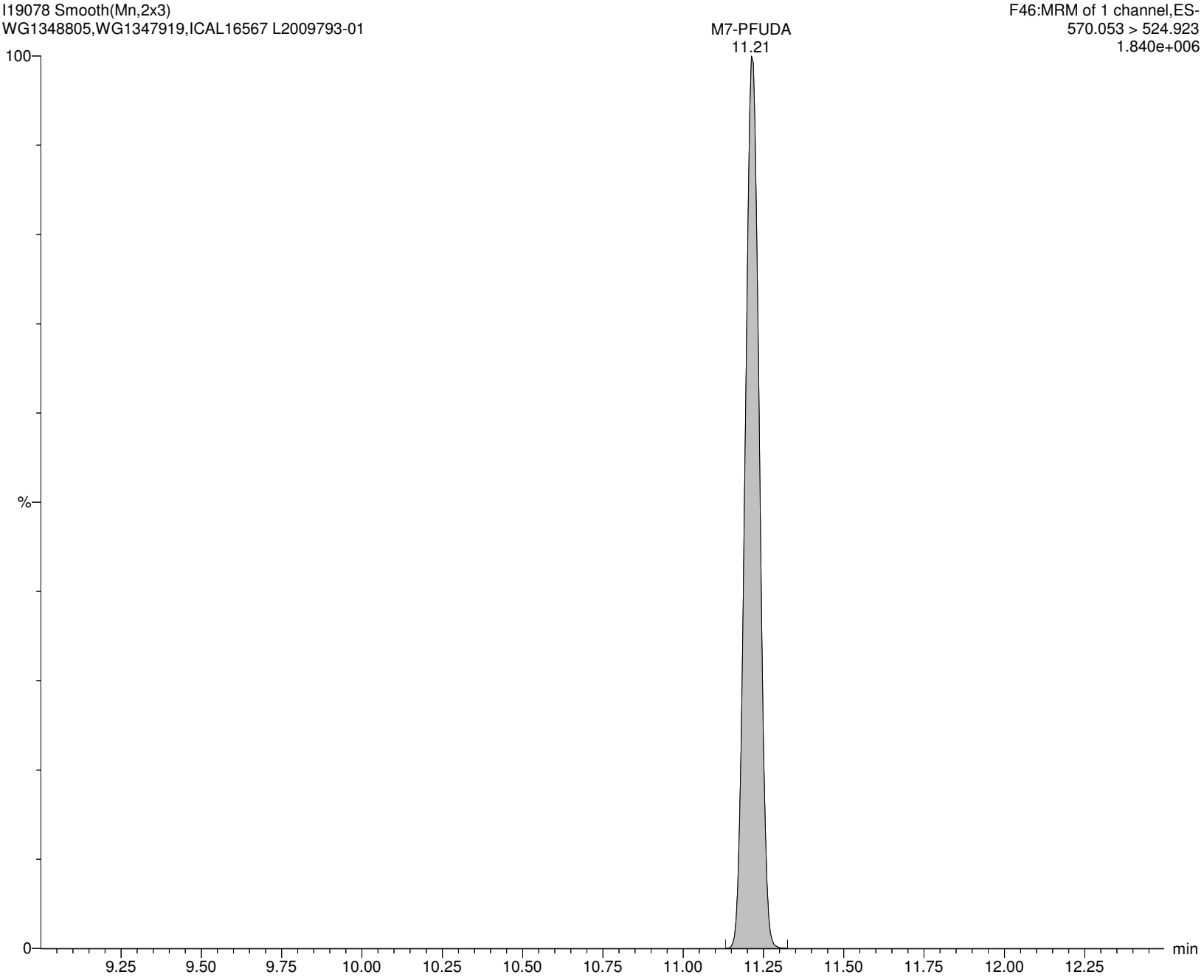
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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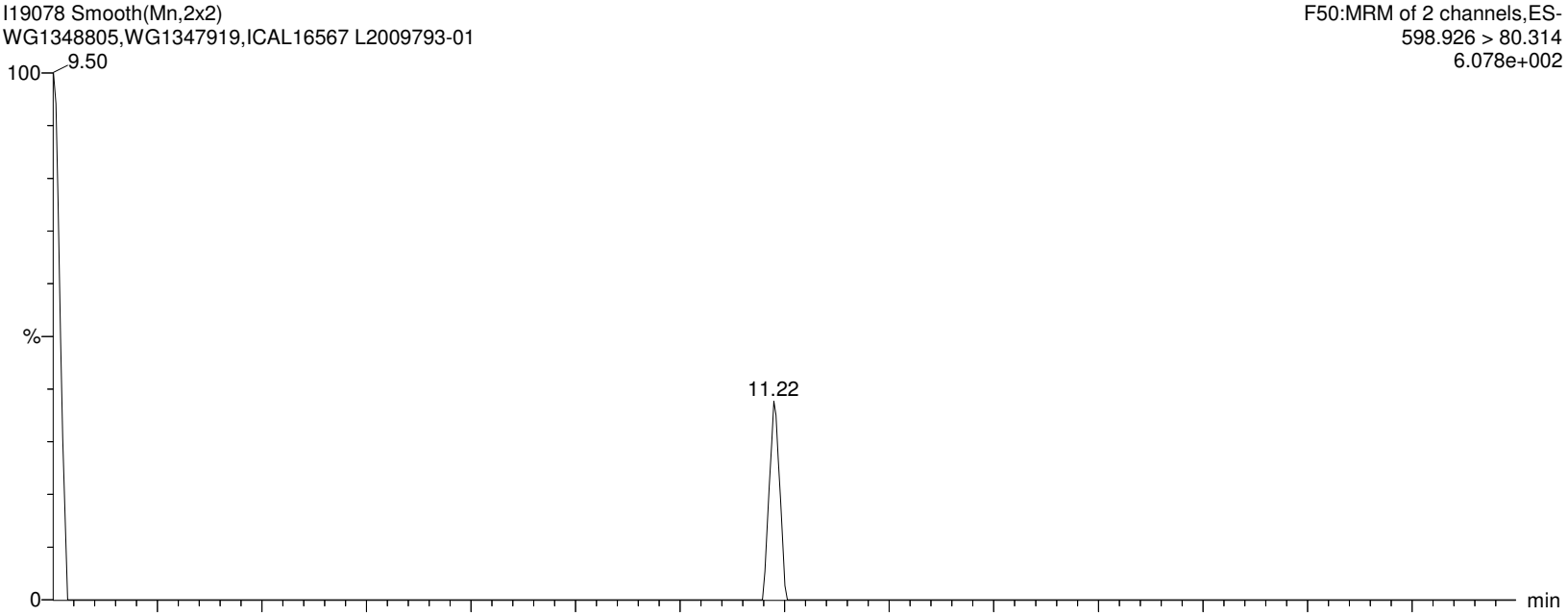

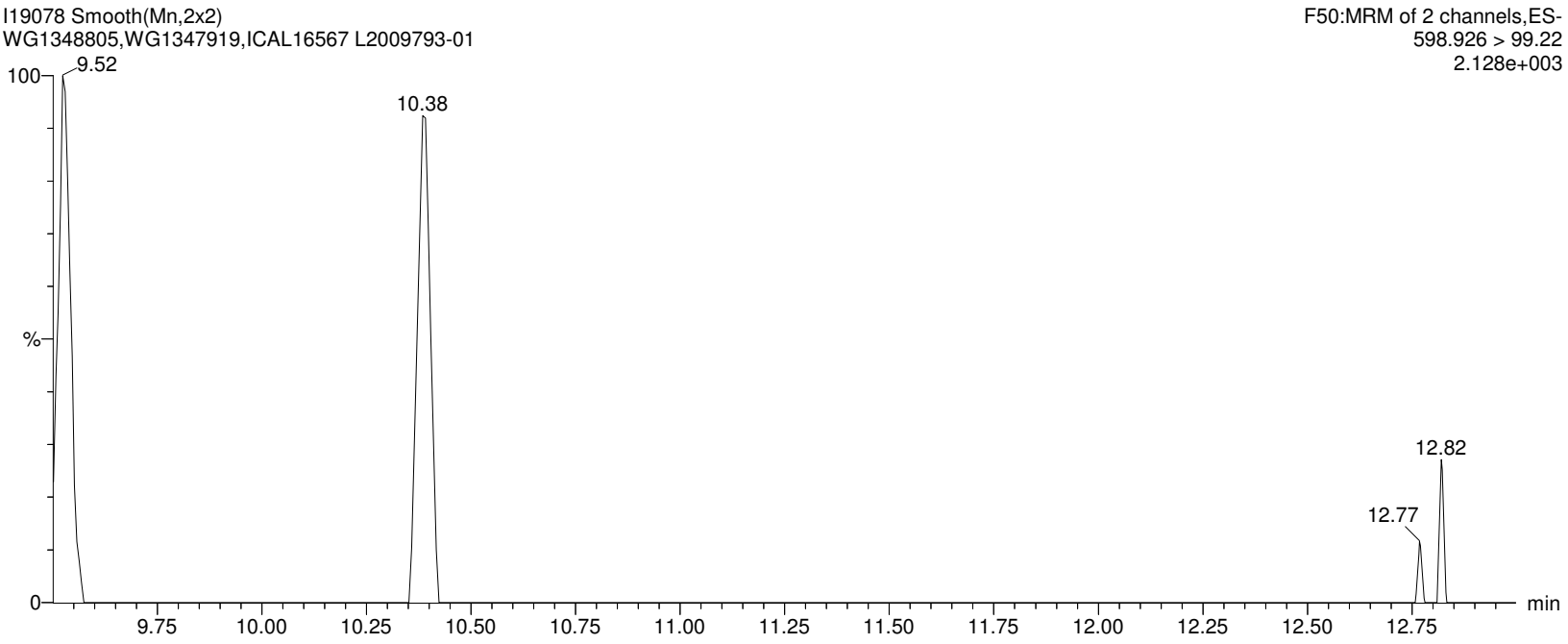

all concentration units in (ng/mL)

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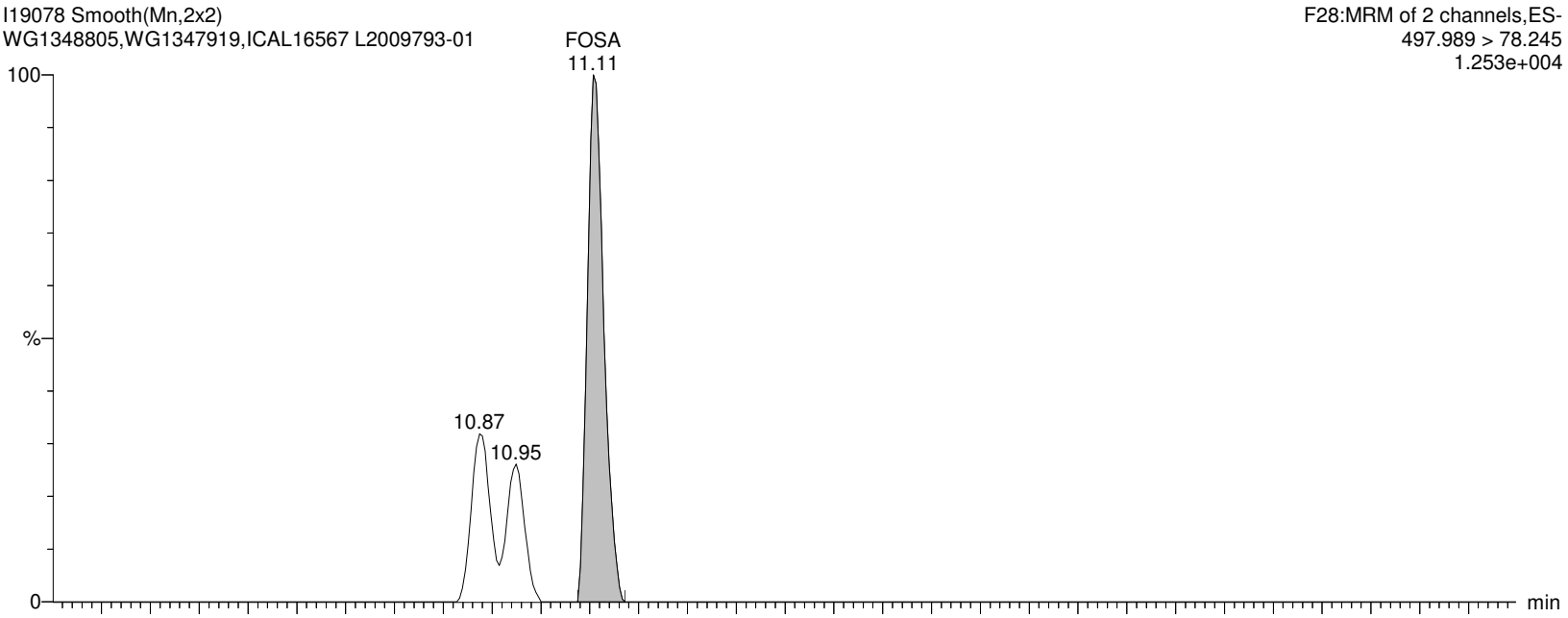

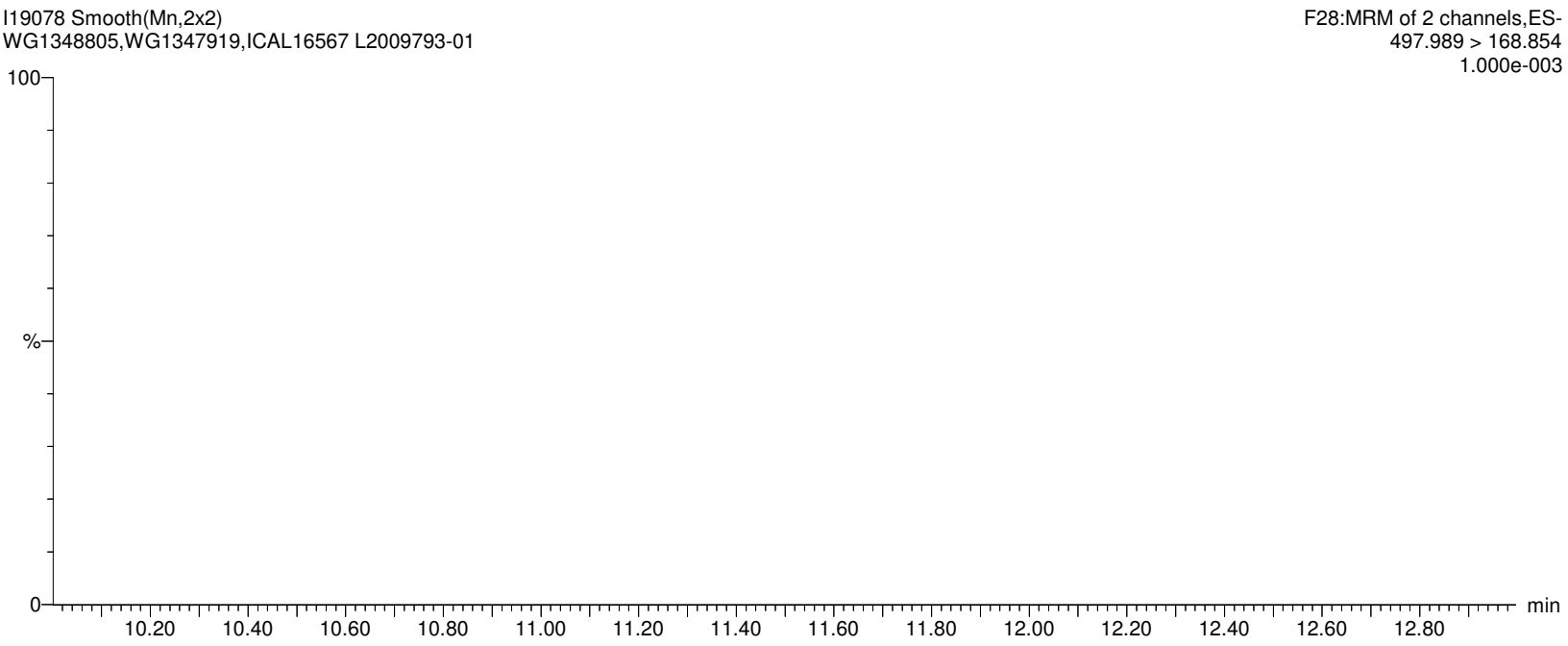

all concentration units in (ng/mL)

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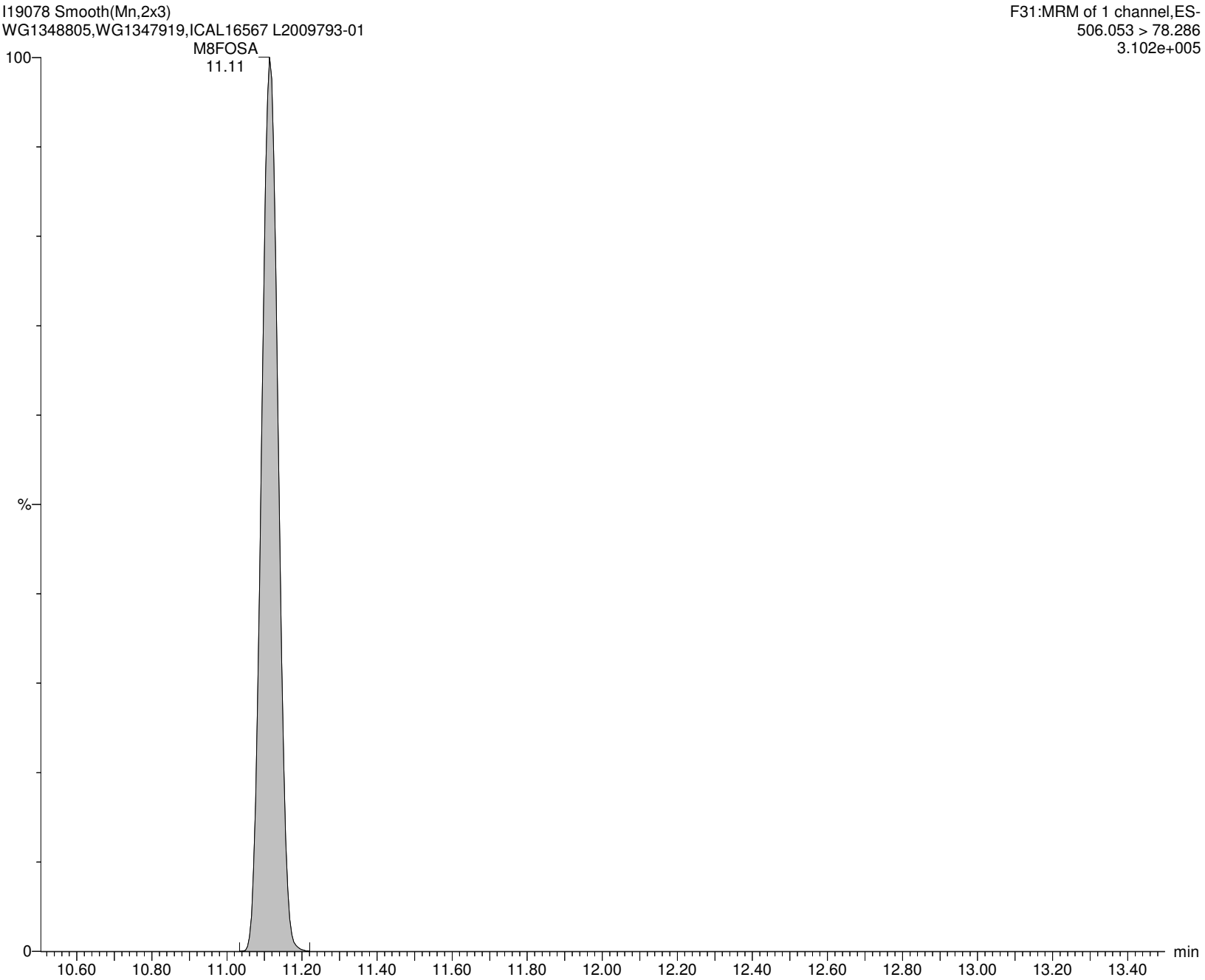

all concentration units in (ng/mL)

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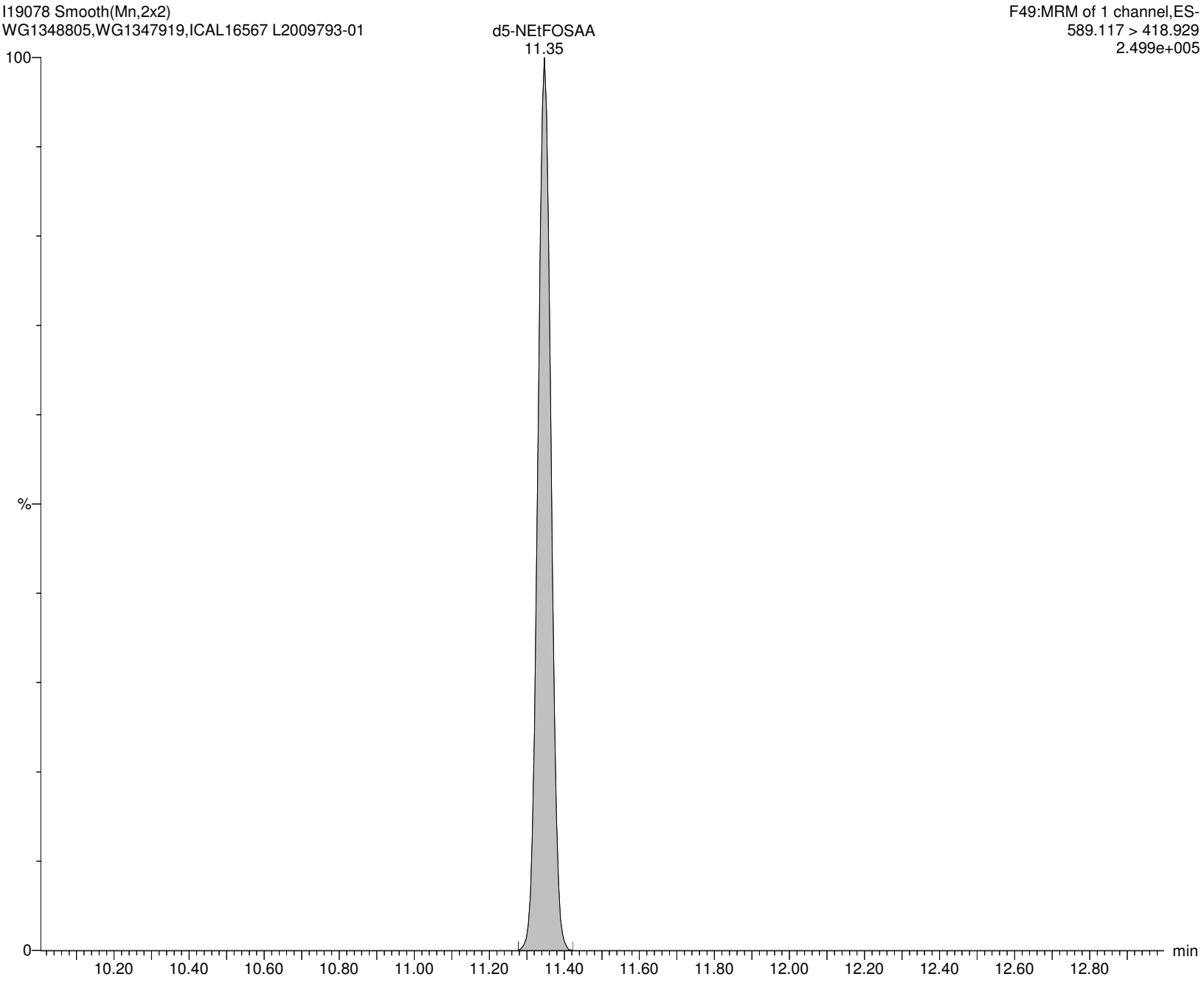
d5-NEtFOSAA



all concentration units in (ng/mL)

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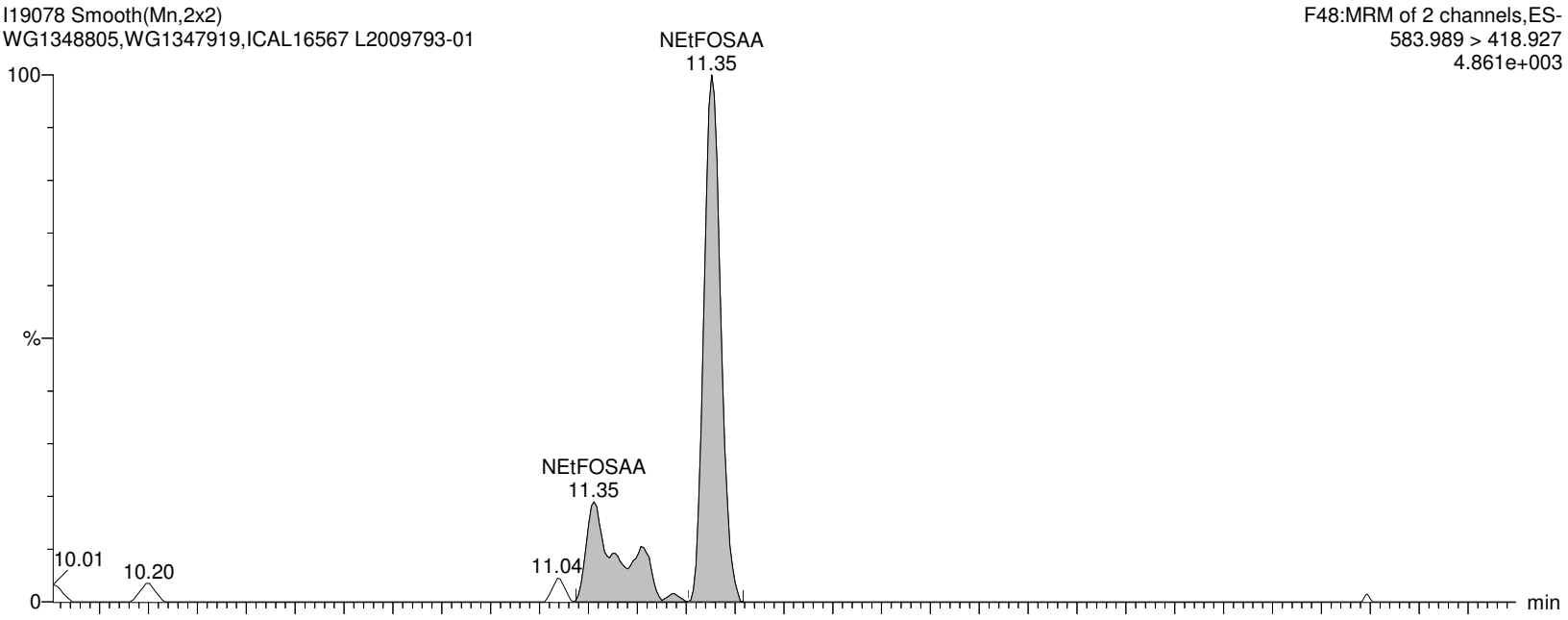

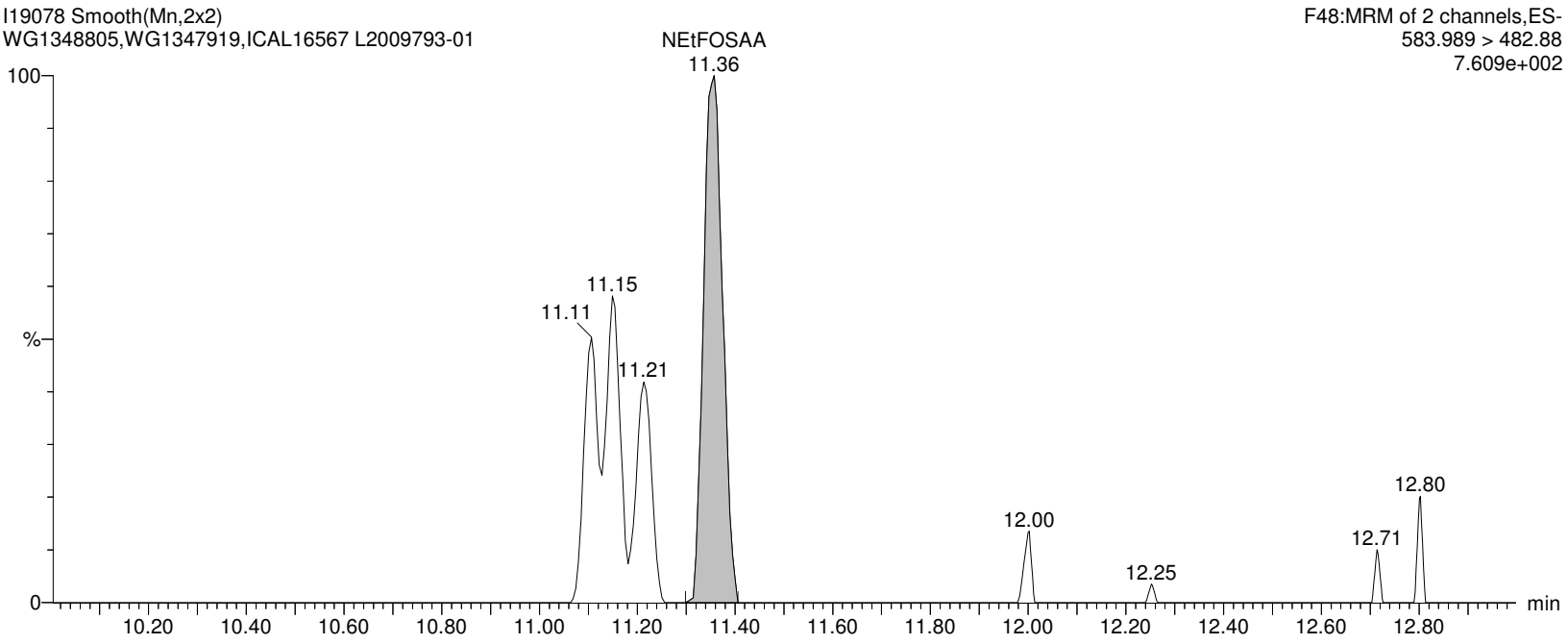

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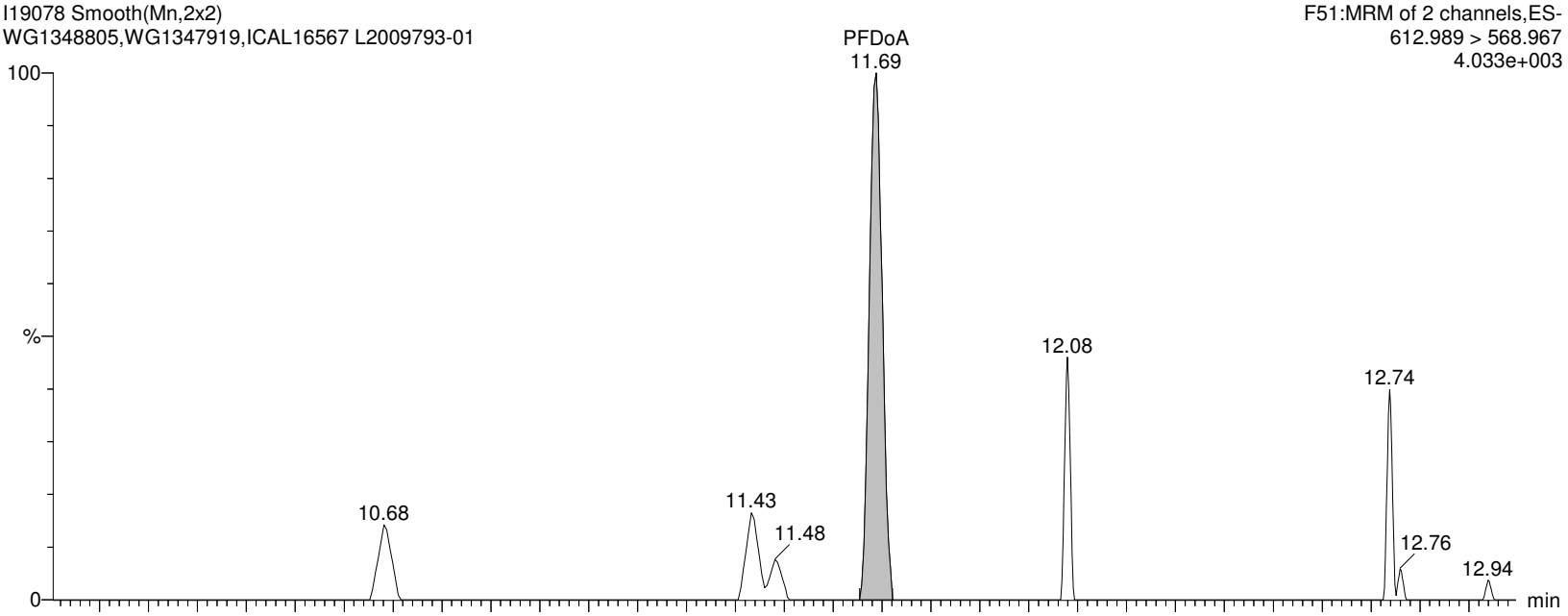

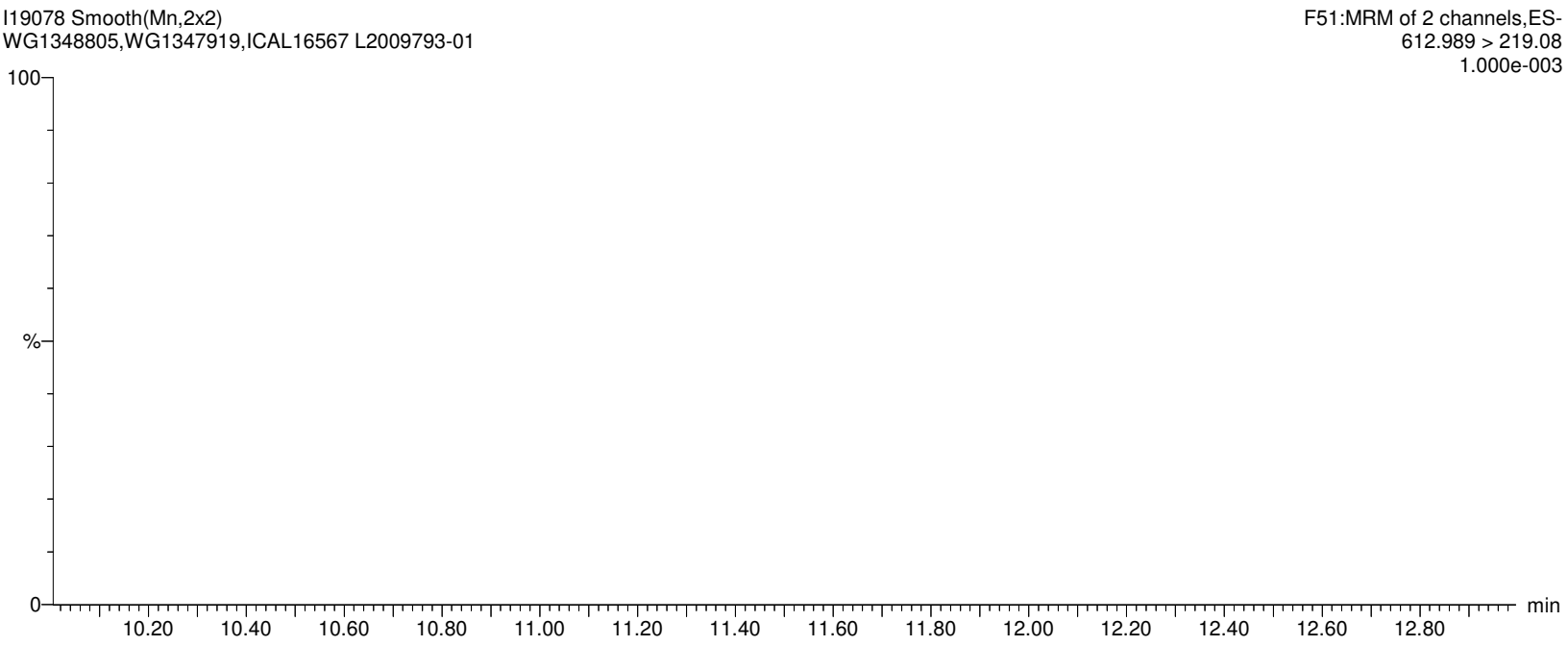

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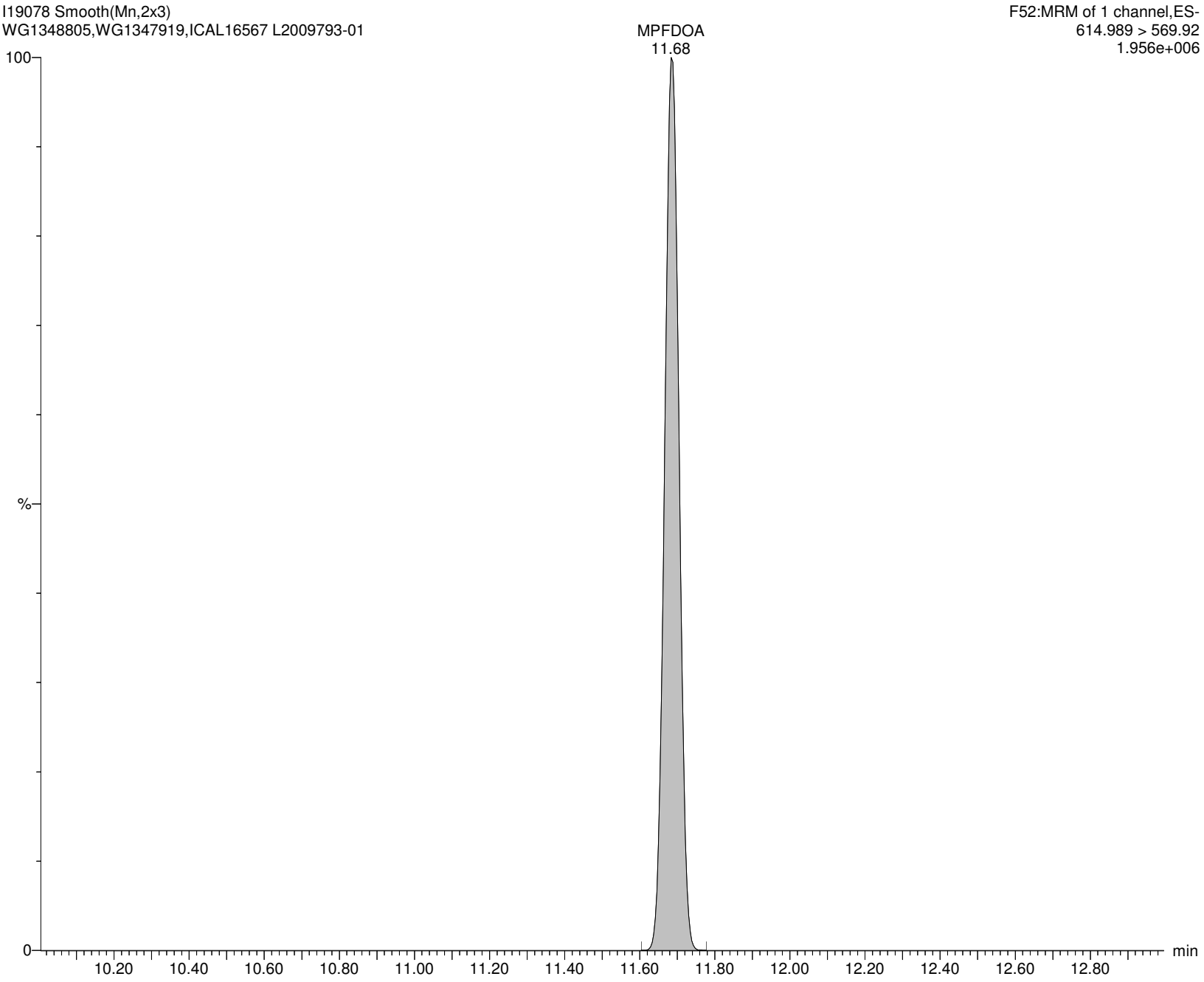

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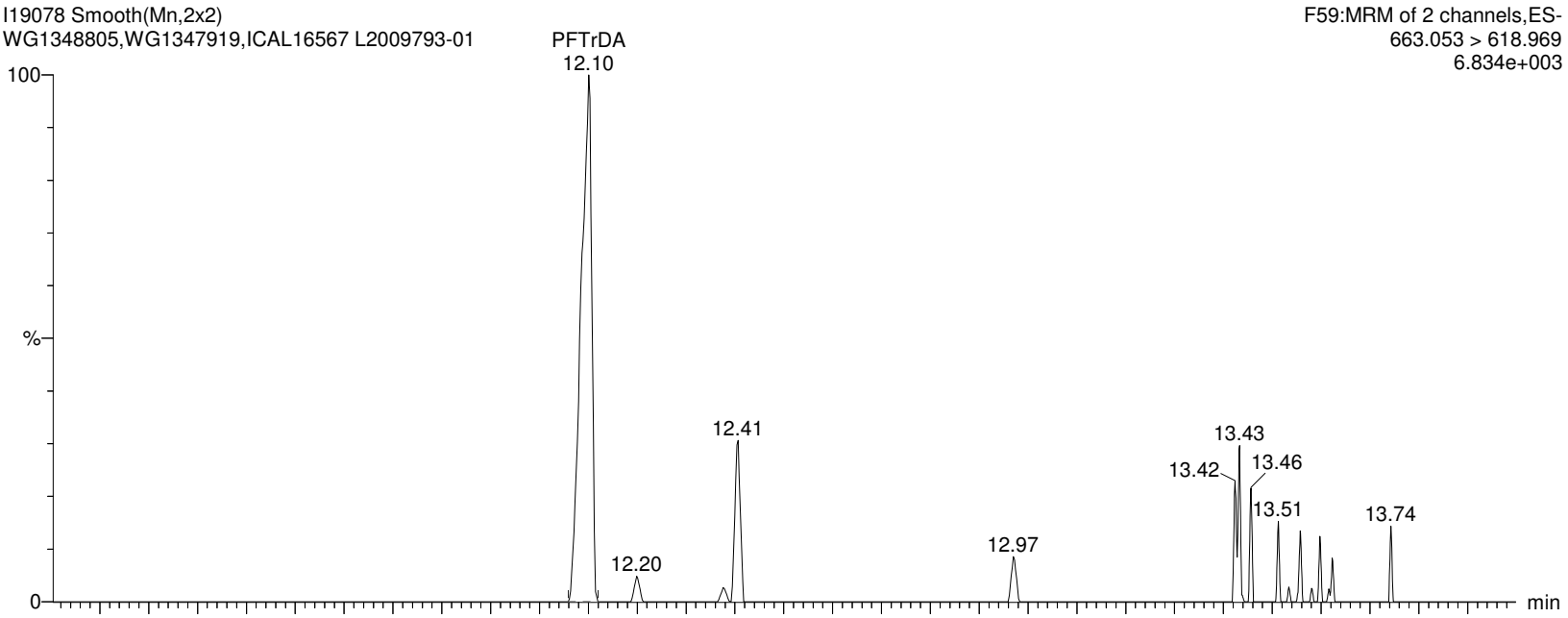

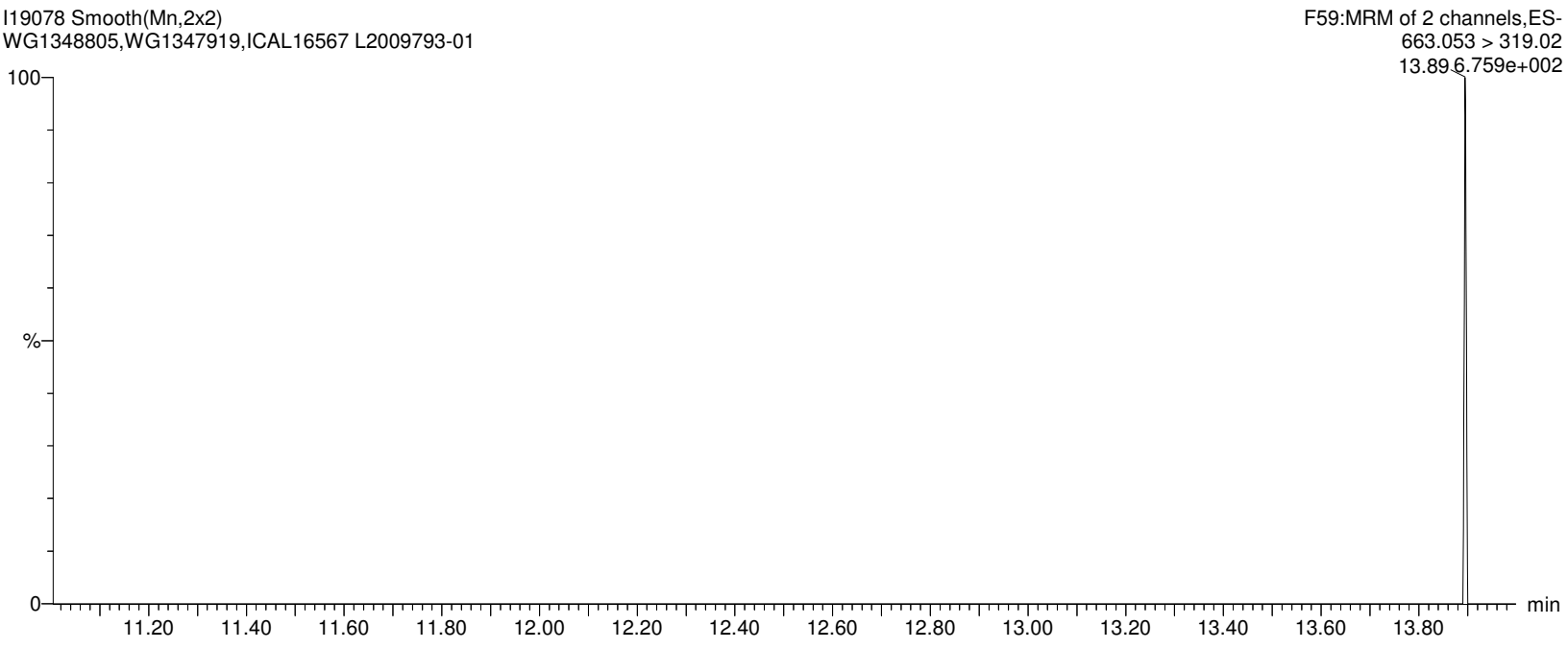

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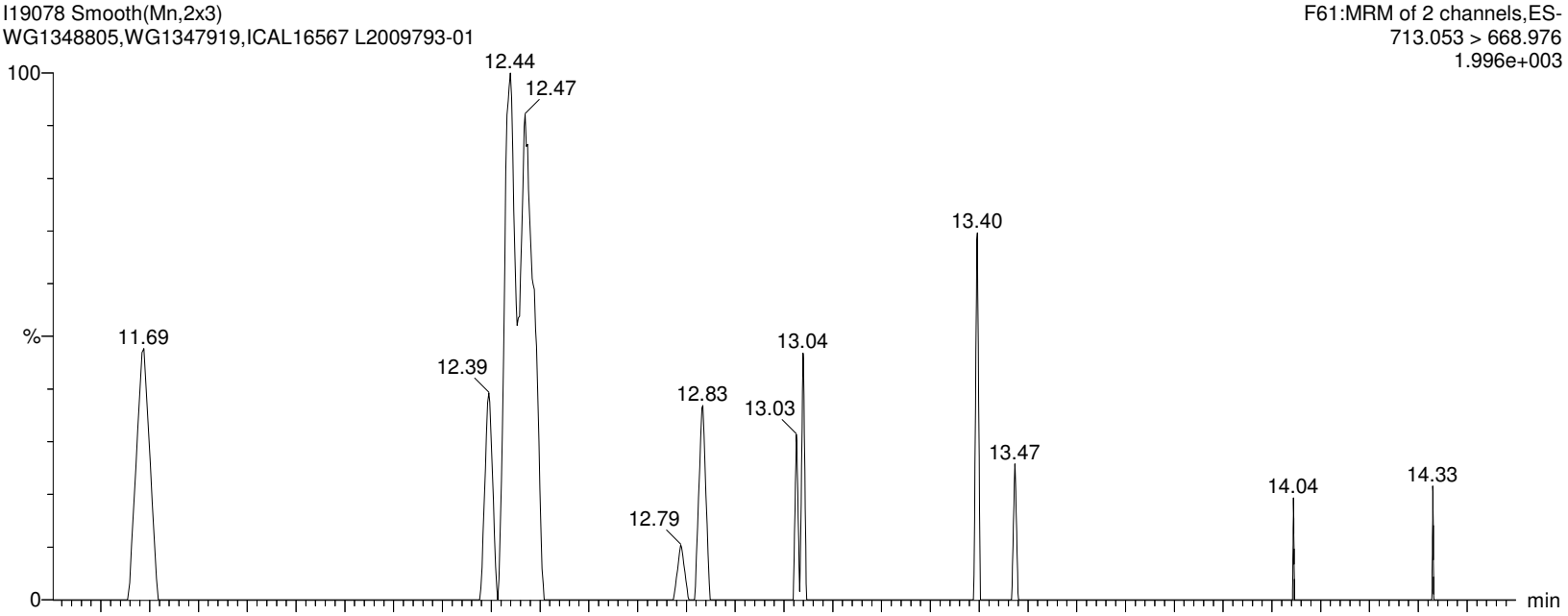

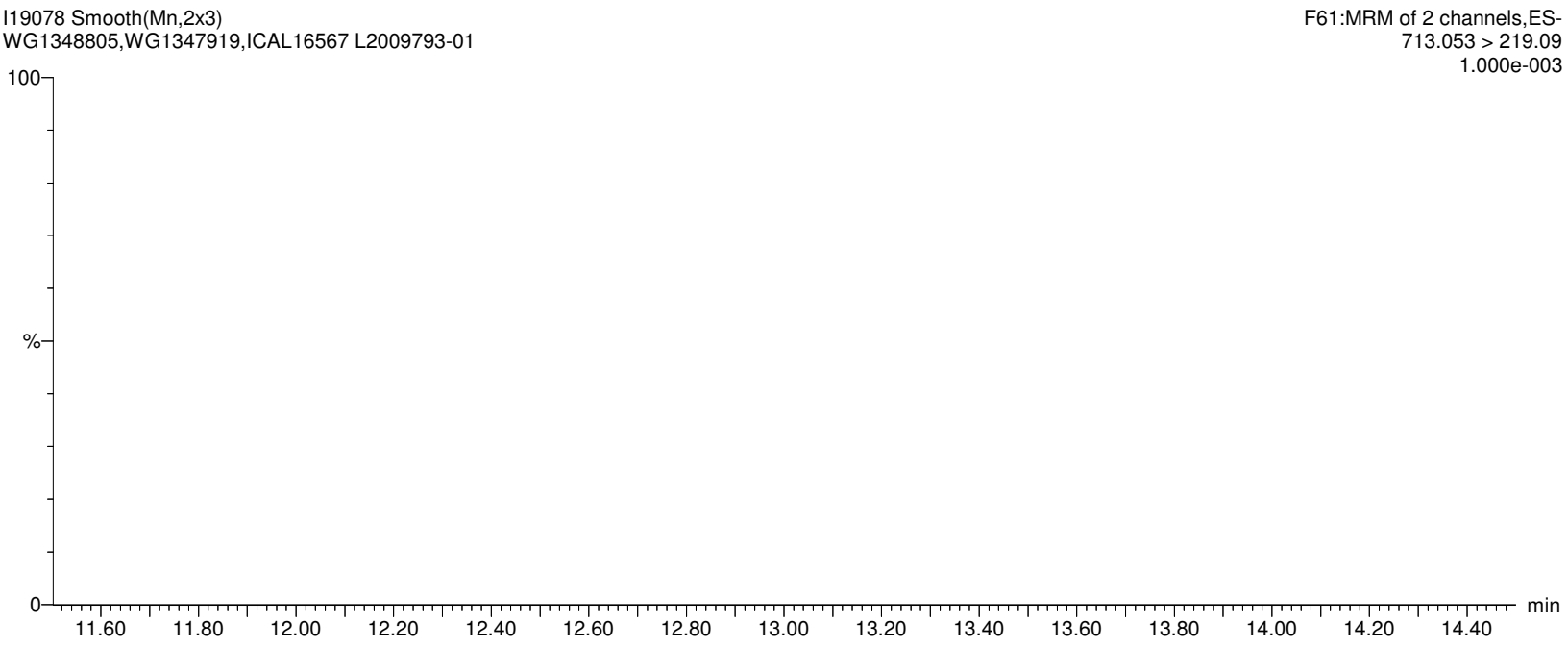

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Alpha Analytical Inc.
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Last Altered: Tuesday, March 17, 2020 11:30:27 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:30:55 Eastern Daylight Time

Name: I19078
ID: L2009793-01
Date: 09-Mar-2020
Time: 15:23:29
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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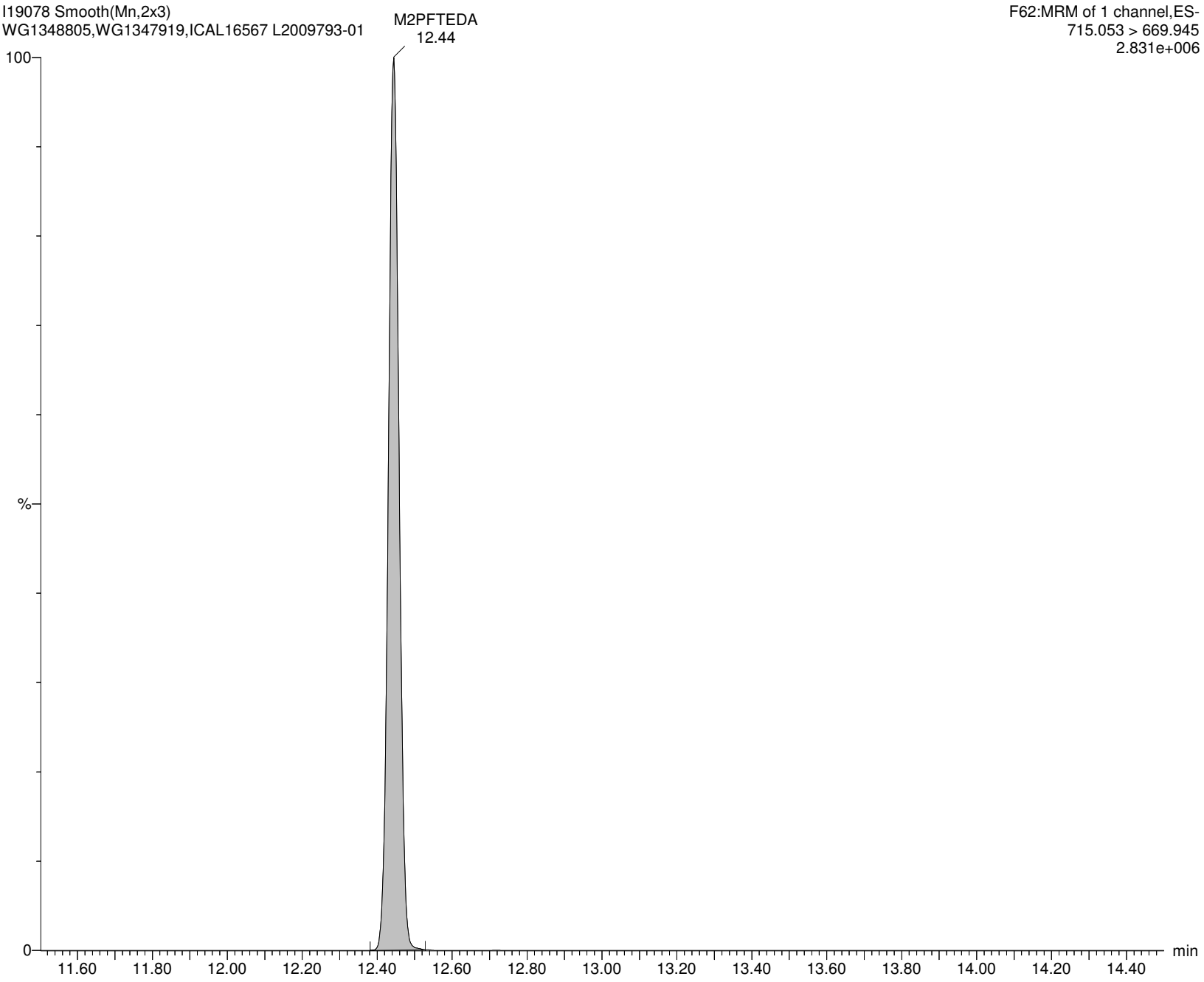

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:34:11 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:34:30 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

ID: L2009793-02
Name: I19079
Date: 09-Mar-2020
Time: 15:40:07
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.19	212.926 > 169.111	8059	m4	2.823		na	
2	M3PFBA	INT STD	2.19	215.926 > 172.122	37569		9.554		na	95.5
3	MPFBA	INT STD	2.19	216.926 > 172.137	39455		9.165		na	91.7
4	PFPeA	2706-90-3	5.16	262.926 > 219.002	4619	m4	1.412		na	
5	M5PFPEA	INT STD	5.16	267.989 > 223.081	47016		8.232		na	82.3
6	PFBS	375-73-5	5.83	298.926 > 79.923	872	m4	1.002	2.04	NO	
7	M3PFBS	INT STD	5.83	301.989 > 80.254	9643		7.584		na	75.8
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	7.01	329.117 > 309.079	10264		15.494		na	154.9
10	PFHxA	307-24-4	7.09	312.989 > 269.028	9845		2.131	16.46	NO	
11	M5PFHxA	INT STD	7.09	317.989 > 273.045	55735		6.559		na	65.6
12	PFPeS	2706-91-4	7.40	348.926 > 80.251	466		0.524	2.20	NO	
13	PFHpA	375-85-9	8.36	362.926 > 319.014	11082		1.567	5.13	NO	
14	M4PFHpA	INT STD	8.36	366.926 > 321.979	77090		7.820		na	78.2
15	br-PFHxS	355-46-4	8.28	398.904 > 79.915	273	M2	0.396		YES	
16	L-PFHxS	355-46-4	8.52	398.904 > 79.915	1204		1.736	2.22	NO	
17	PFHxS	355-46-4		398.904 > 79.915	1477		2.132		na	
18	M3PFHxS	INT STD	8.52	401.926 > 80.317	9378		8.232		na	82.3
19	br-PFOA	335-67-1	9.08	412.989 > 368.9	10950	M5	1.445	2.35	NO	
20	L-PFOA	335-67-1	9.31	412.989 > 368.9	47418		6.260	8.72	NO	
21	M2PFOA	INT STD	9.30	415.032 > 369.968	103791		12.337		na	123.4
22	PFOA	335-67-1		412.989 > 368.9	58368		7.705		na	
23	M8PFOA	INT STD	9.30	420.989 > 375.979	88106		8.902		na	89.0
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.26	428.989 > 408.917	9443		22.909		na	229.1
26	PFHpS	375-92-8	9.39	448.926 > 80.257	195		0.423		YES	
27	PFNA	375-95-1	10.05	462.989 > 418.931	1946		0.279	4.38	NO	
28	M9PFNA	INT STD	10.05	472.053 > 426.947	93920		9.706		na	97.1
29	br-PFOS	1763-23-1	9.85	498.968 > 79.918	3863	M5	5.401	4.39	NO	
30	L-PFOS	1763-23-1	10.10	498.968 > 79.918	3391		6.811	1.36	NO	
31	PFOS	1763-23-1		498.968 > 79.918	7254		12.212		na	
32	M4PFOS	INT STD	10.10	503.032 > 80.306	9912		11.669		na	116.7
33	M8PFOS	INT STD	10.10	507.053 > 80.294	9207		7.999		na	80.0
34	PFDA	335-76-2	10.68	513.053 > 468.906	1560		0.219		YES	
35	M2PFDA	INT STD	10.68	515.053 > 469.934	100487		15.191		na	151.9
36	M6PFDA	INT STD	10.68	519.053 > 473.931	92777		8.392		na	83.9
37	8:2FTS	39108-34-4		527.032 > 507.079			ND		YES	
38	M2-8:2FTS	INT STD	10.67	529.053 > 508.945	3694		14.818		na	148.2
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

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Last Altered: Tuesday, March 17, 2020 11:34:11 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:34:30 Eastern Daylight Time

ID: L2009793-02
Name: I19079
Date: 09-Mar-2020
Time: 15:40:07
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.06	573.096 > 418.987	13842		9.451		na	94.5
41	NMeFOSAA	2355-31-9	11.06	570.053 > 418.917	106	m5	0.129		YES	
42	PFUnA	2058-94-8	11.23	562.989 > 518.903	514		0.067	11.34	YES	
43	M7-PFUDA	INT STD	11.21	570.053 > 524.923	82664		8.509		na	85.1
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6	11.11	497.989 > 78.245	74		0.076		YES	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	11721		2.645		na	26.5
47	d5-NEtFOSAA	INT STD	11.35	589.117 > 418.929	9482		8.878		na	88.8
48	NEtFOSAA	2991-50-6	11.36	583.989 > 418.927	140	m5	0.173		YES	
49	PFDoA	307-55-1	11.69	612.989 > 568.967	322		0.041		YES	
50	MPFDOA	INT STD	11.68	614.989 > 569.92	85988		8.233		na	82.3
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.44	715.053 > 669.945	81668		6.937		na	69.4

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Name: I19079
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Vial: 1:C,2
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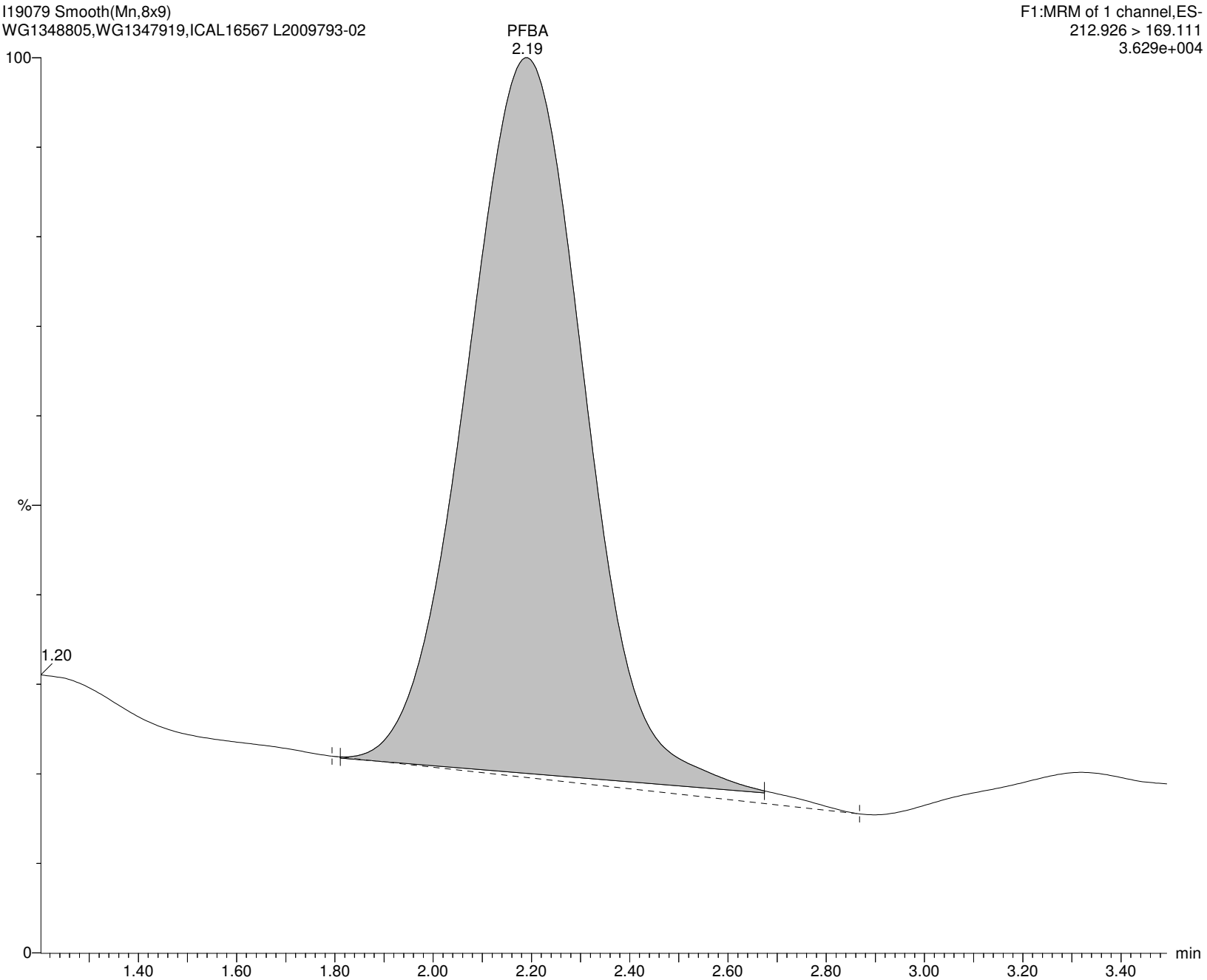

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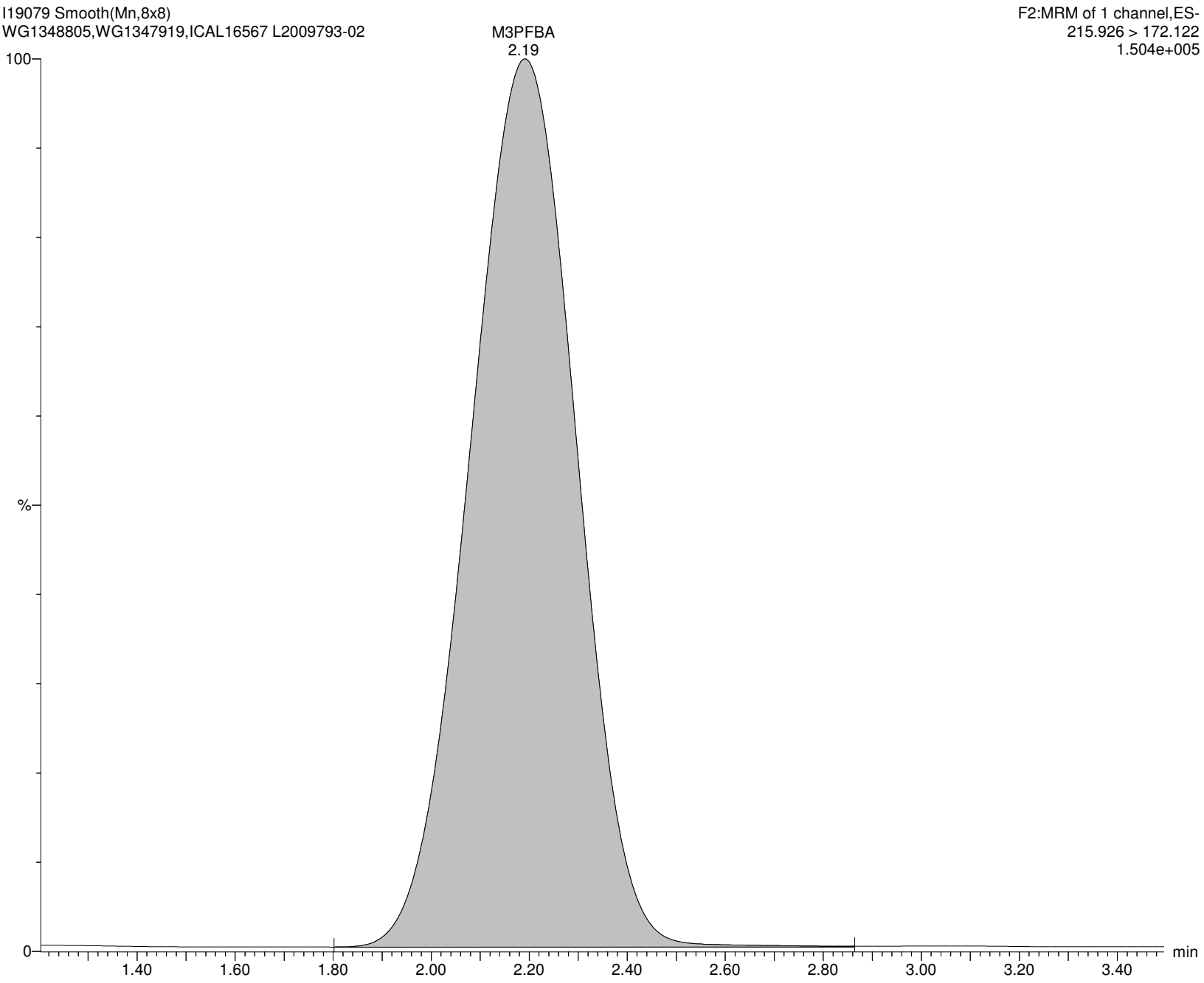

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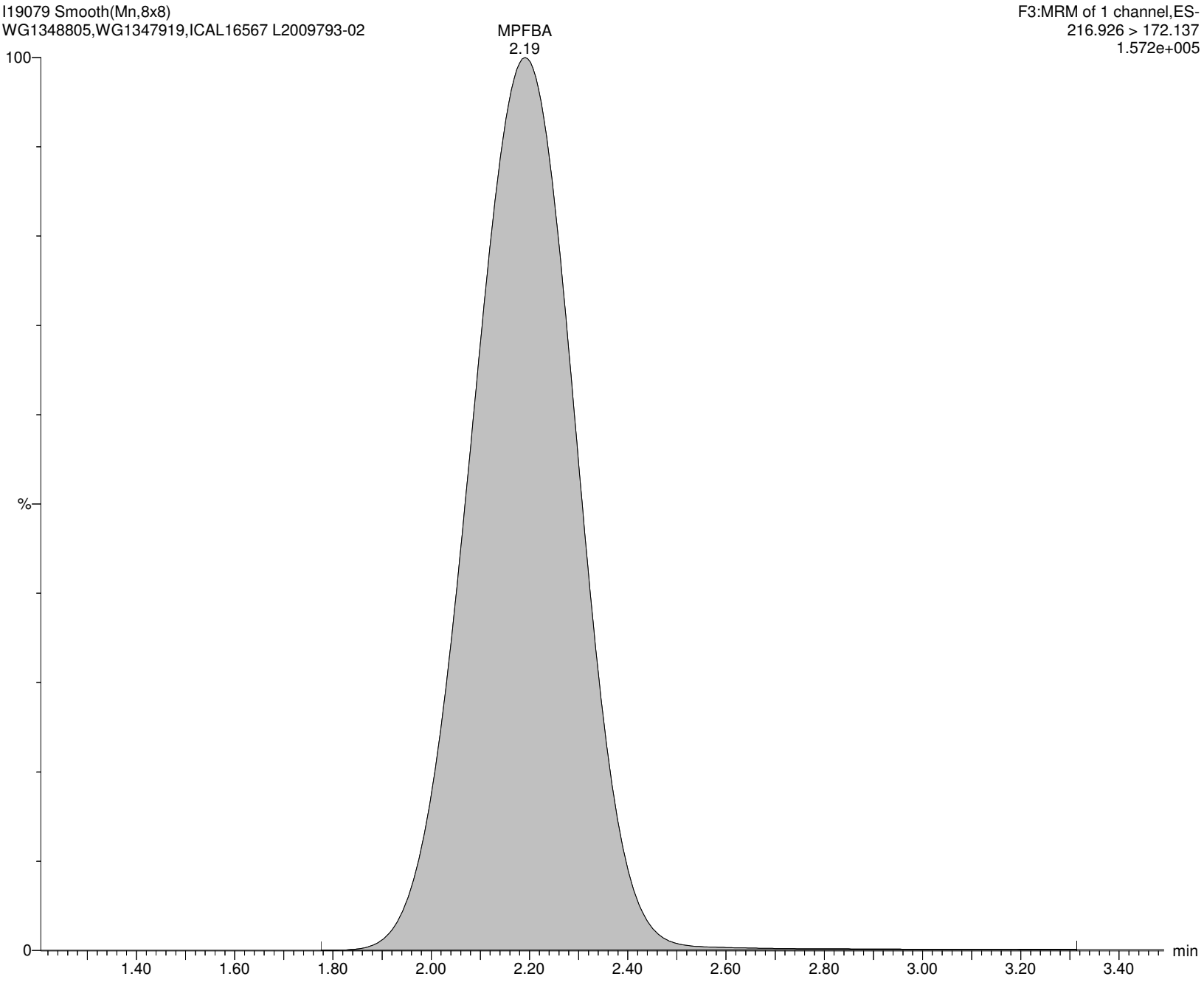

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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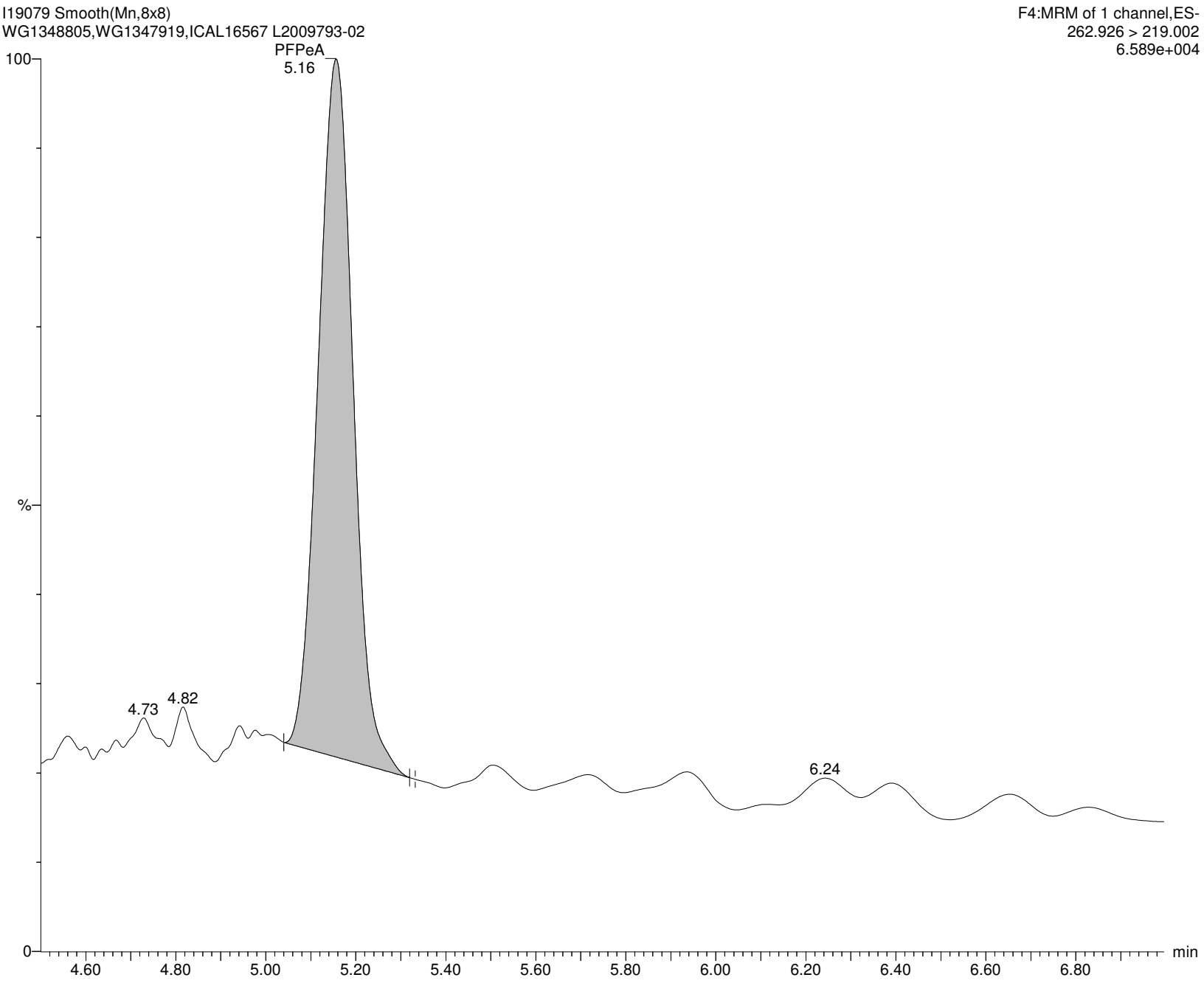

all concentration units in (ng/mL)

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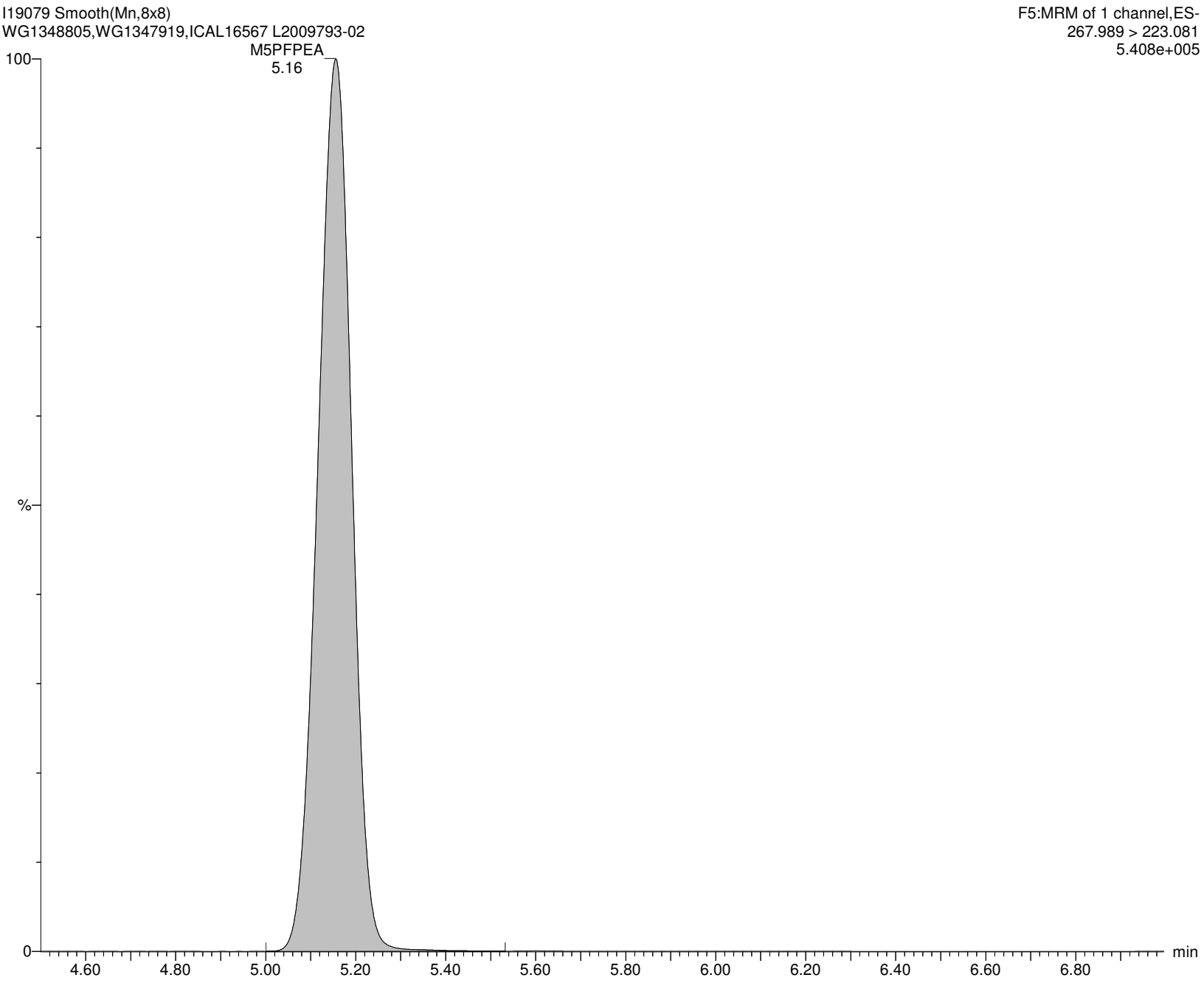
M5PFPEA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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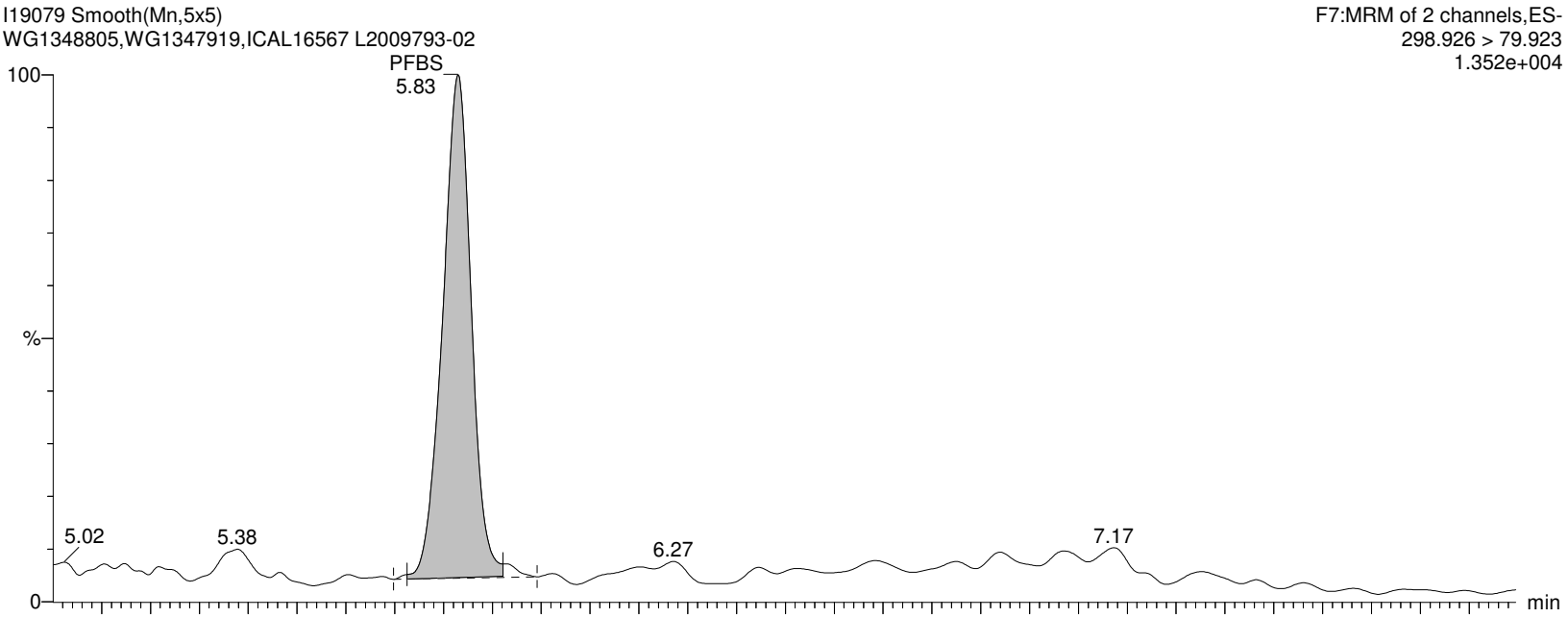

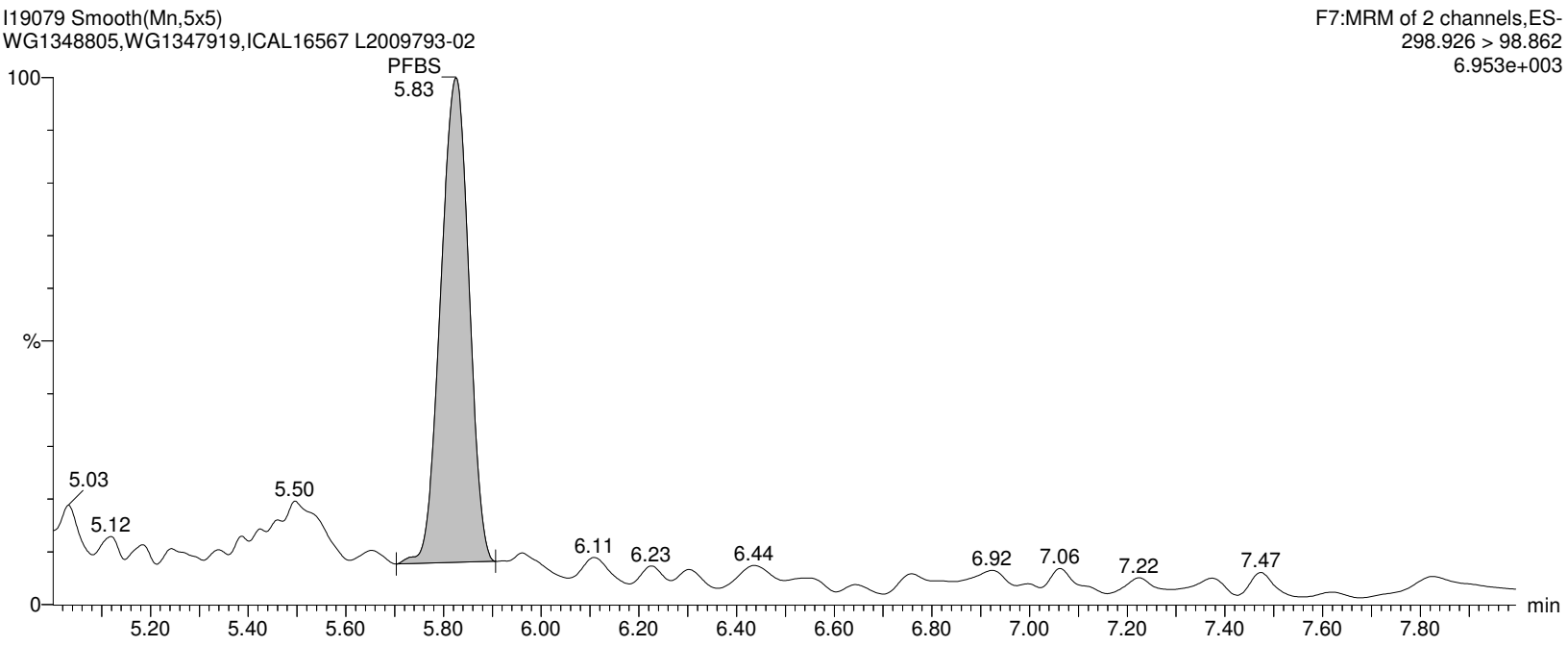

all concentration units in (ng/mL)

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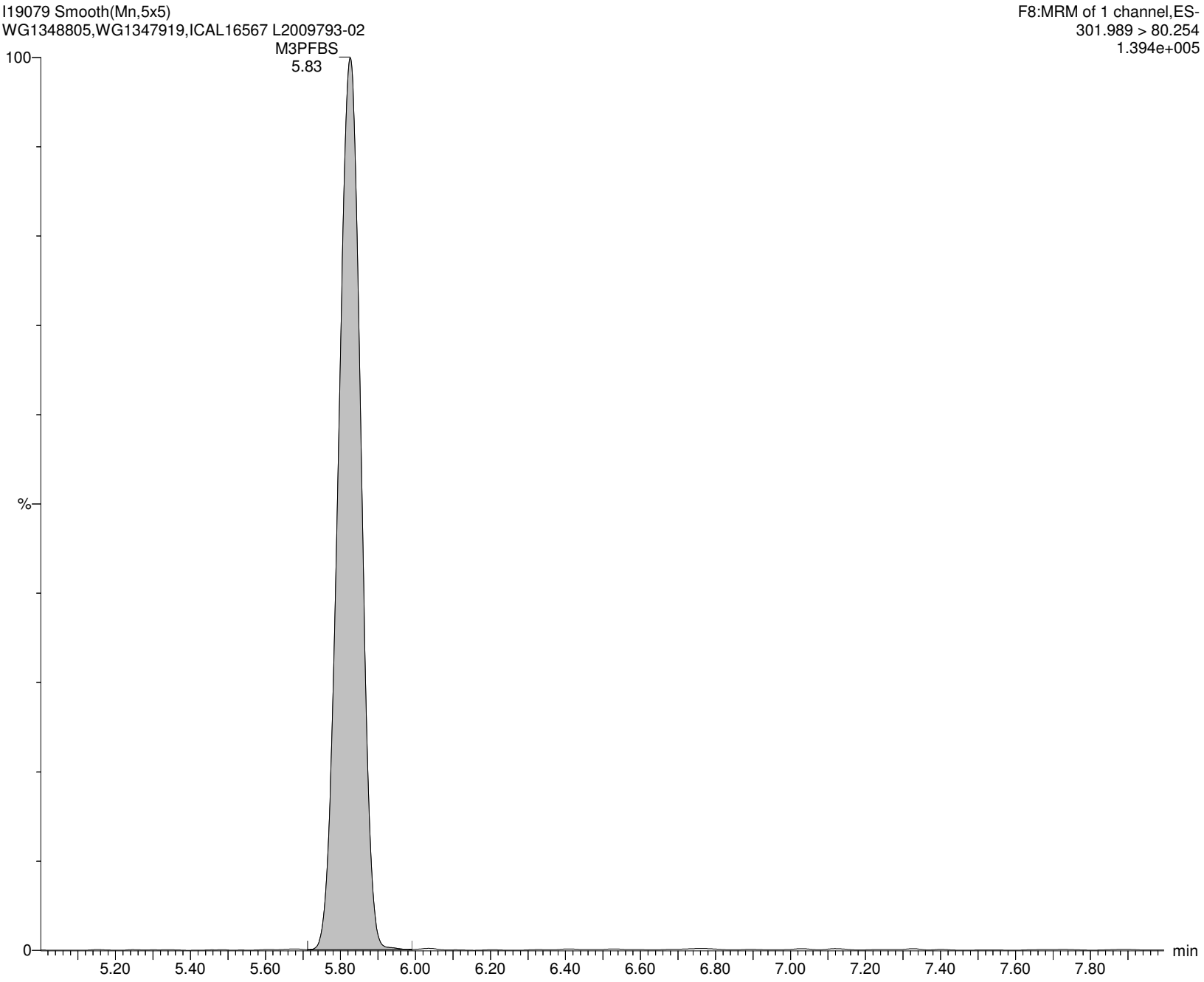
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M3PFBS



all concentration units in (ng/mL)

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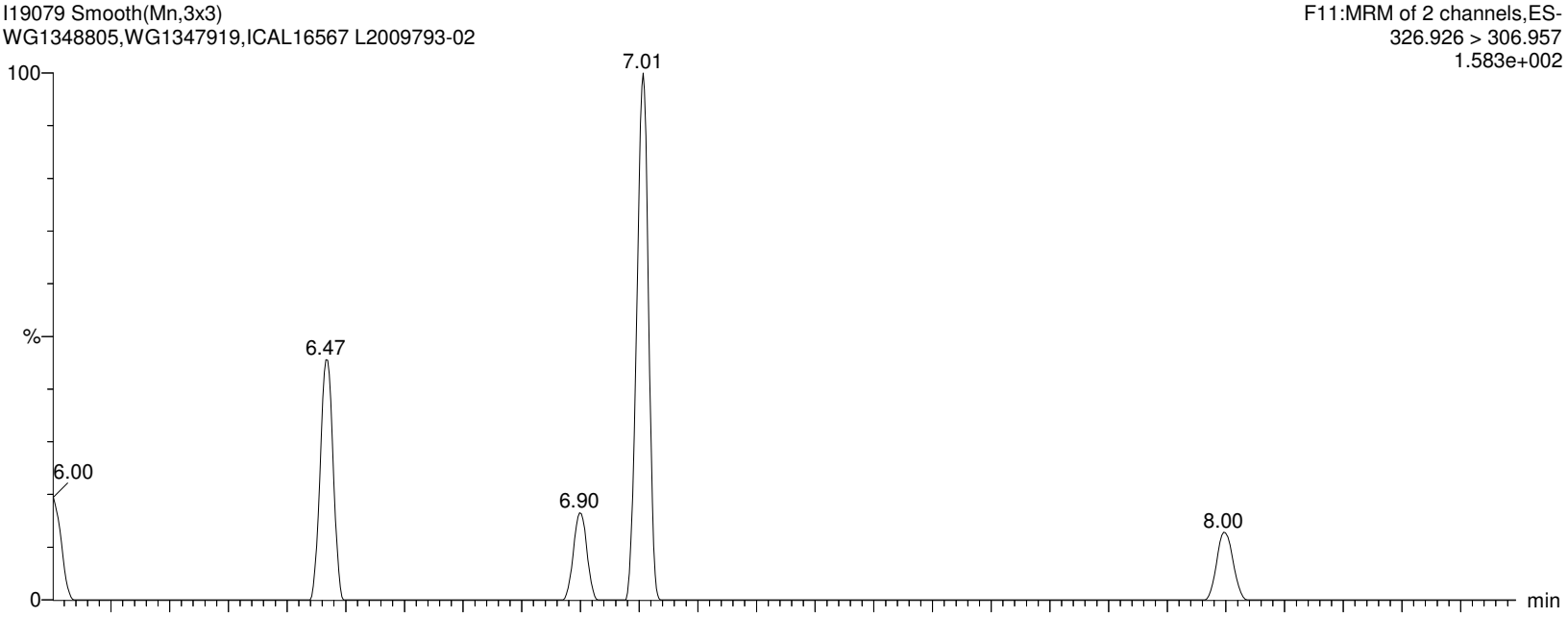

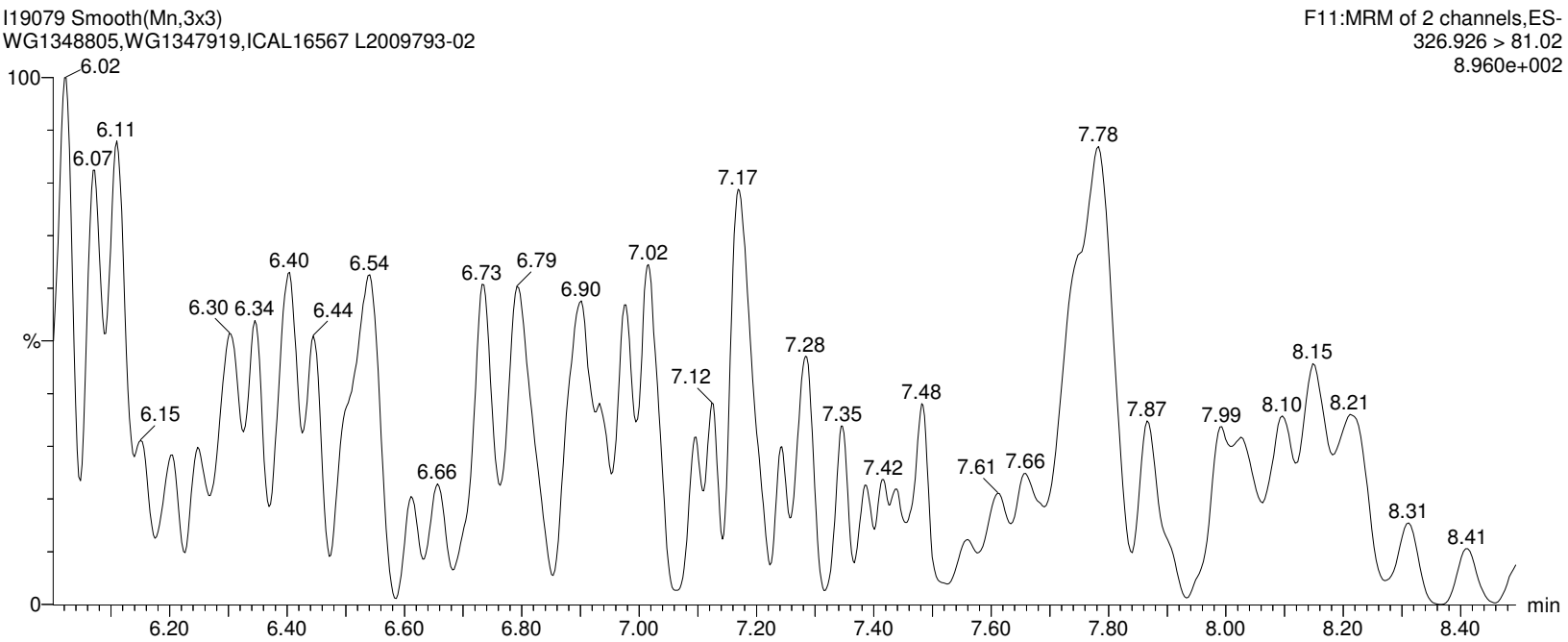

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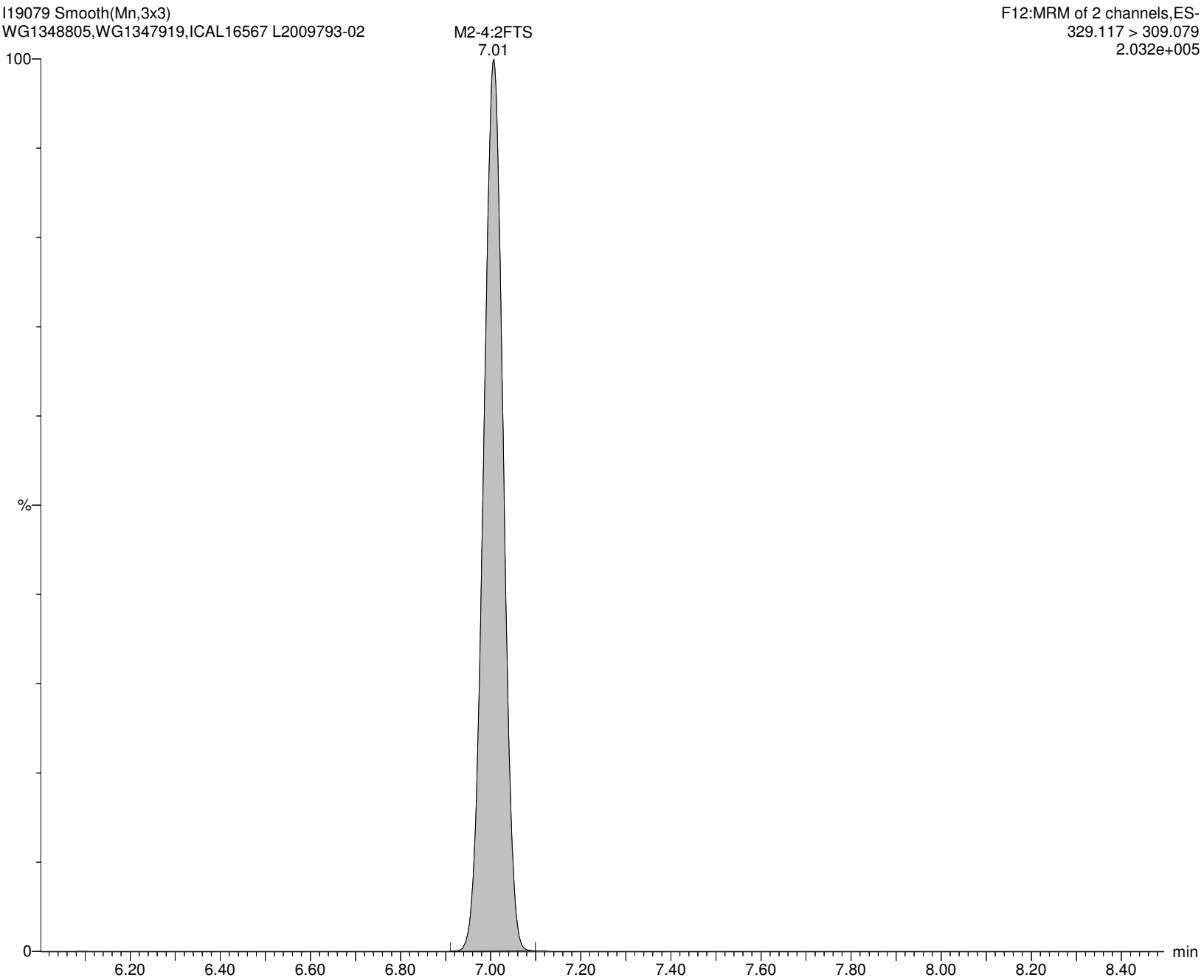

all concentration units in (ng/mL)

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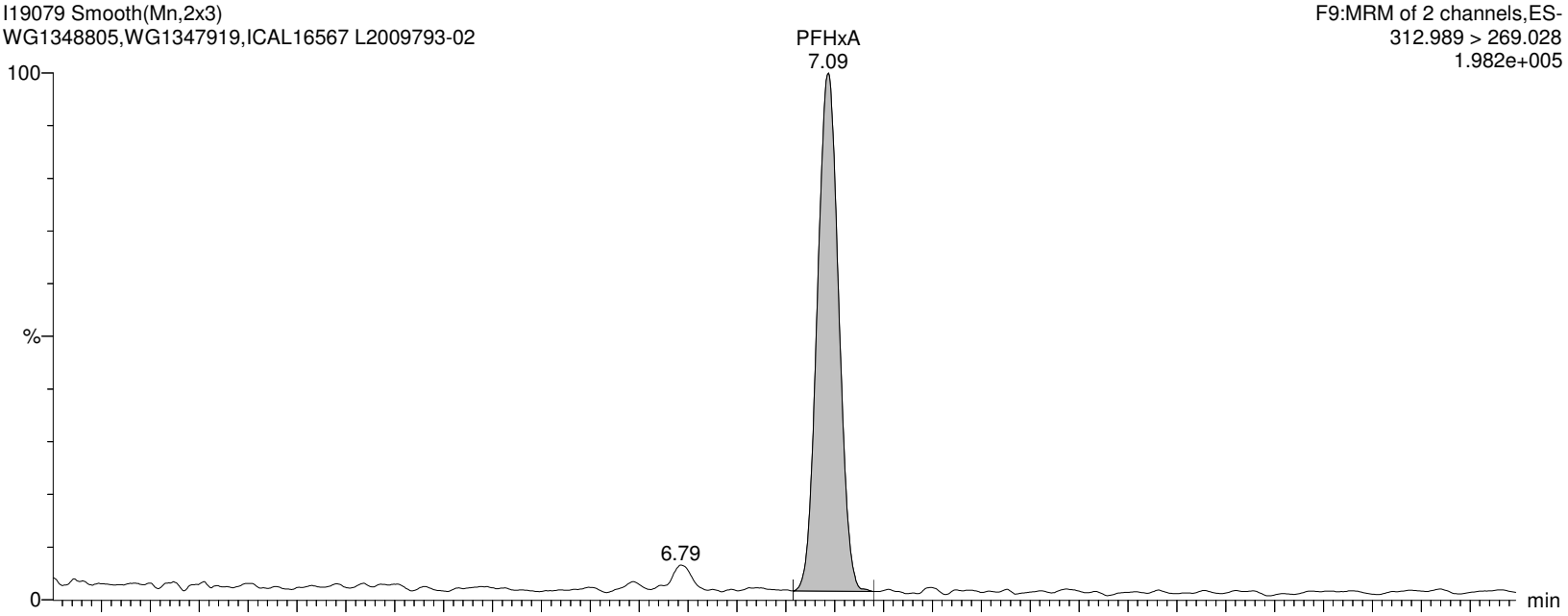

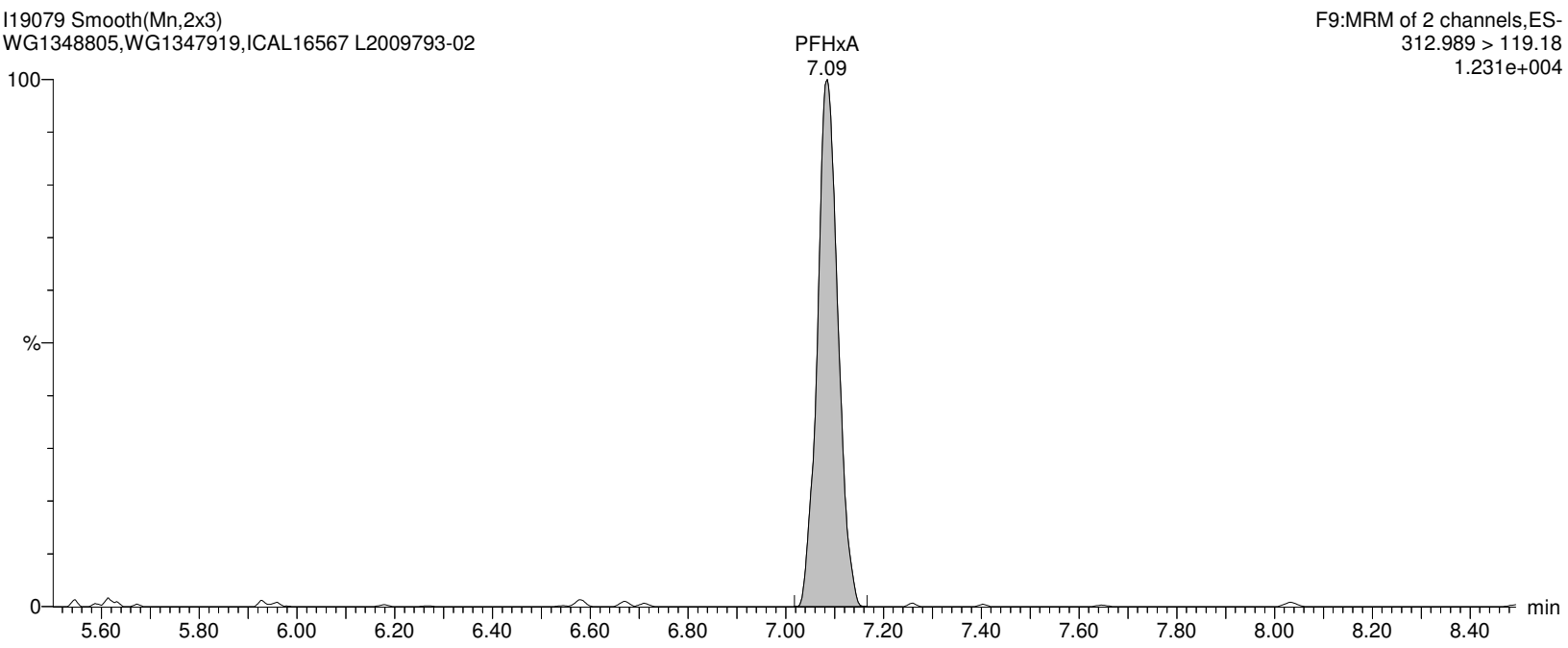

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I19079
ID: L2009793-02
Date: 09-Mar-2020
Time: 15:40:07
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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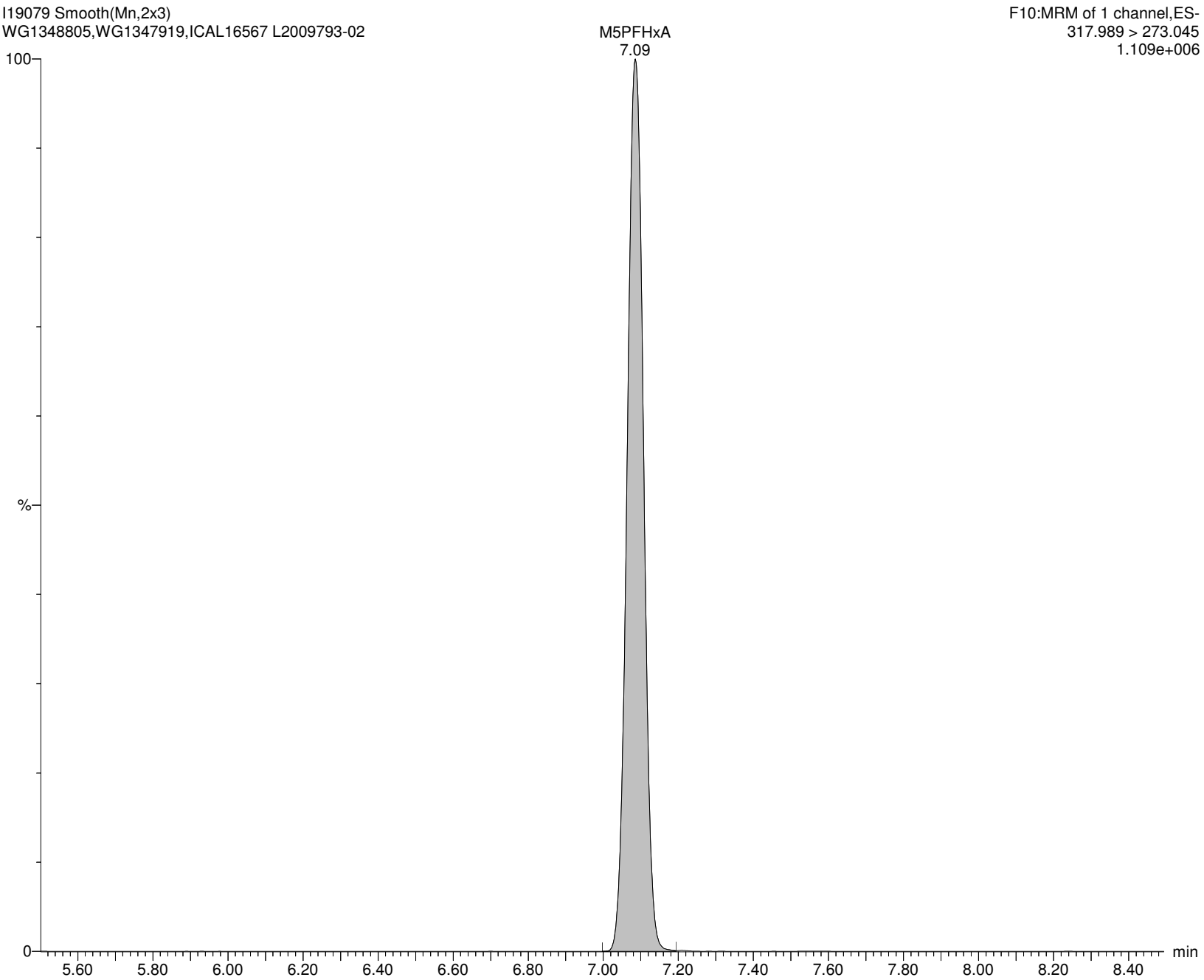

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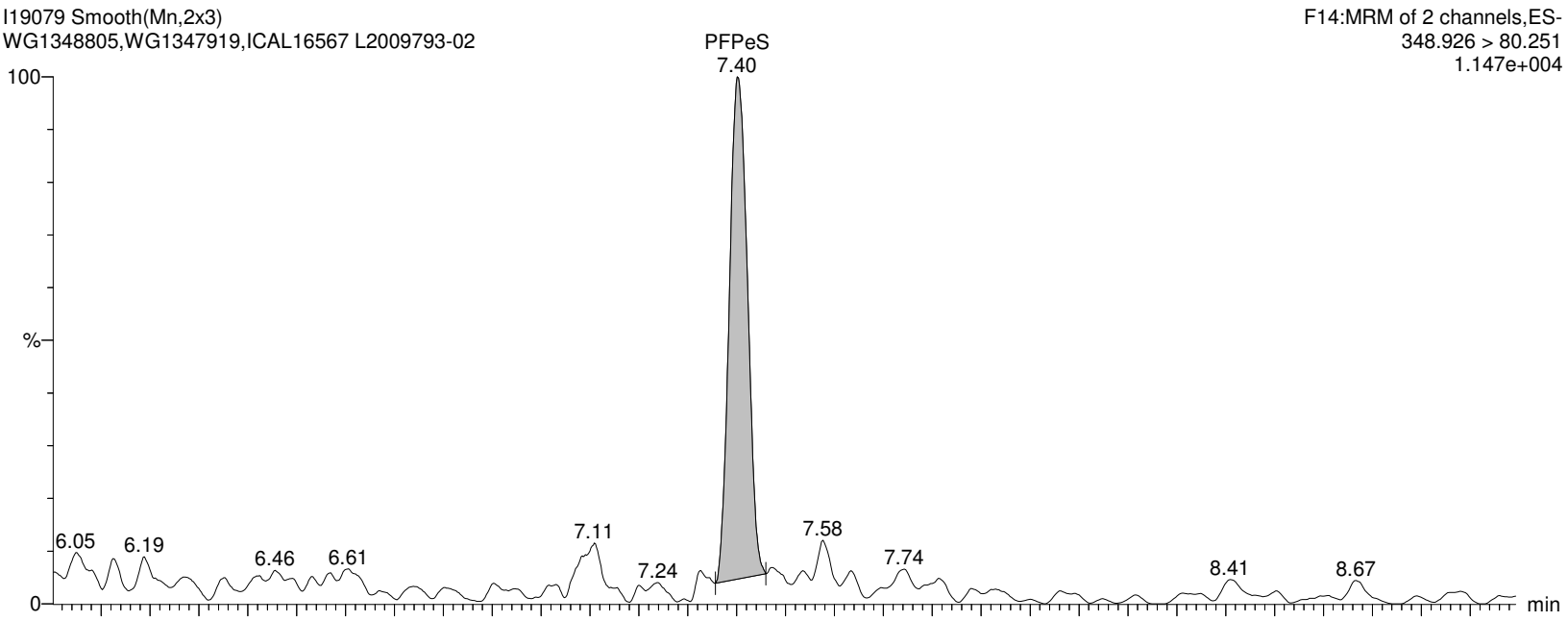

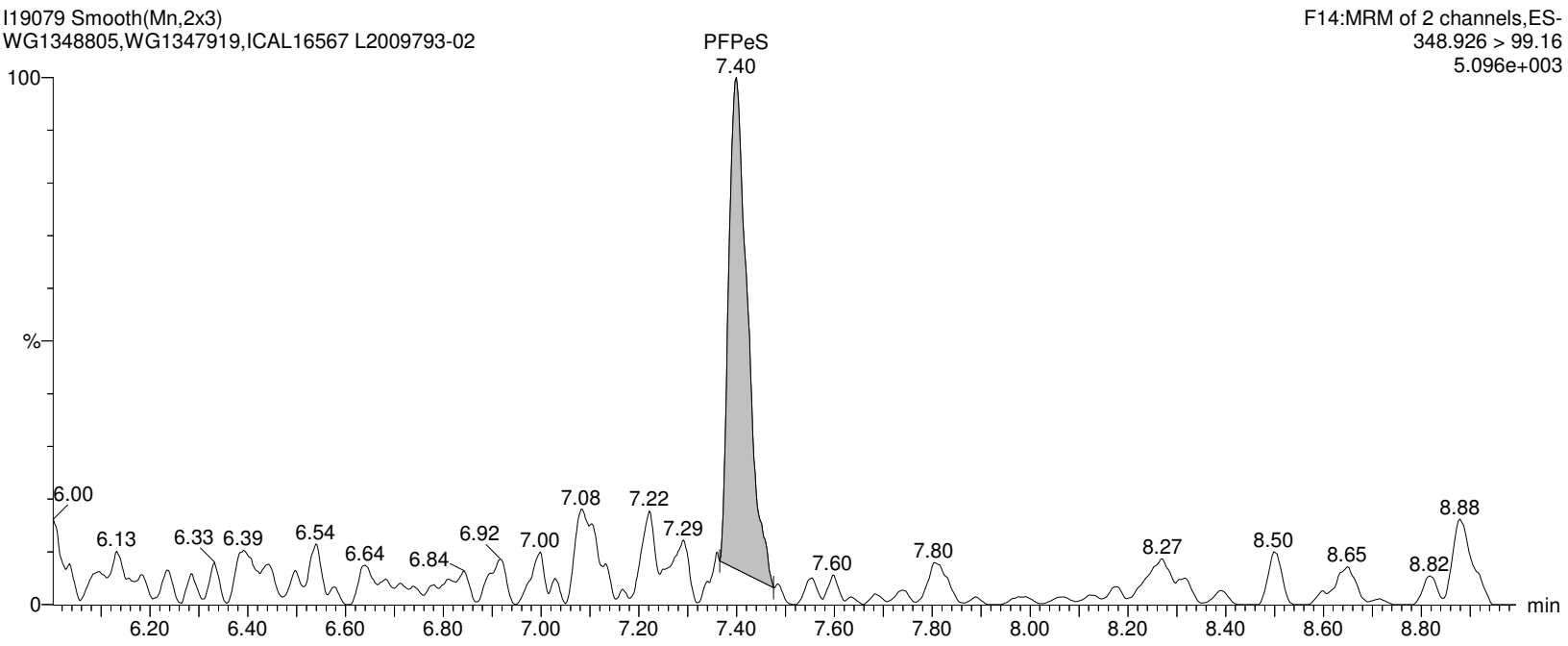

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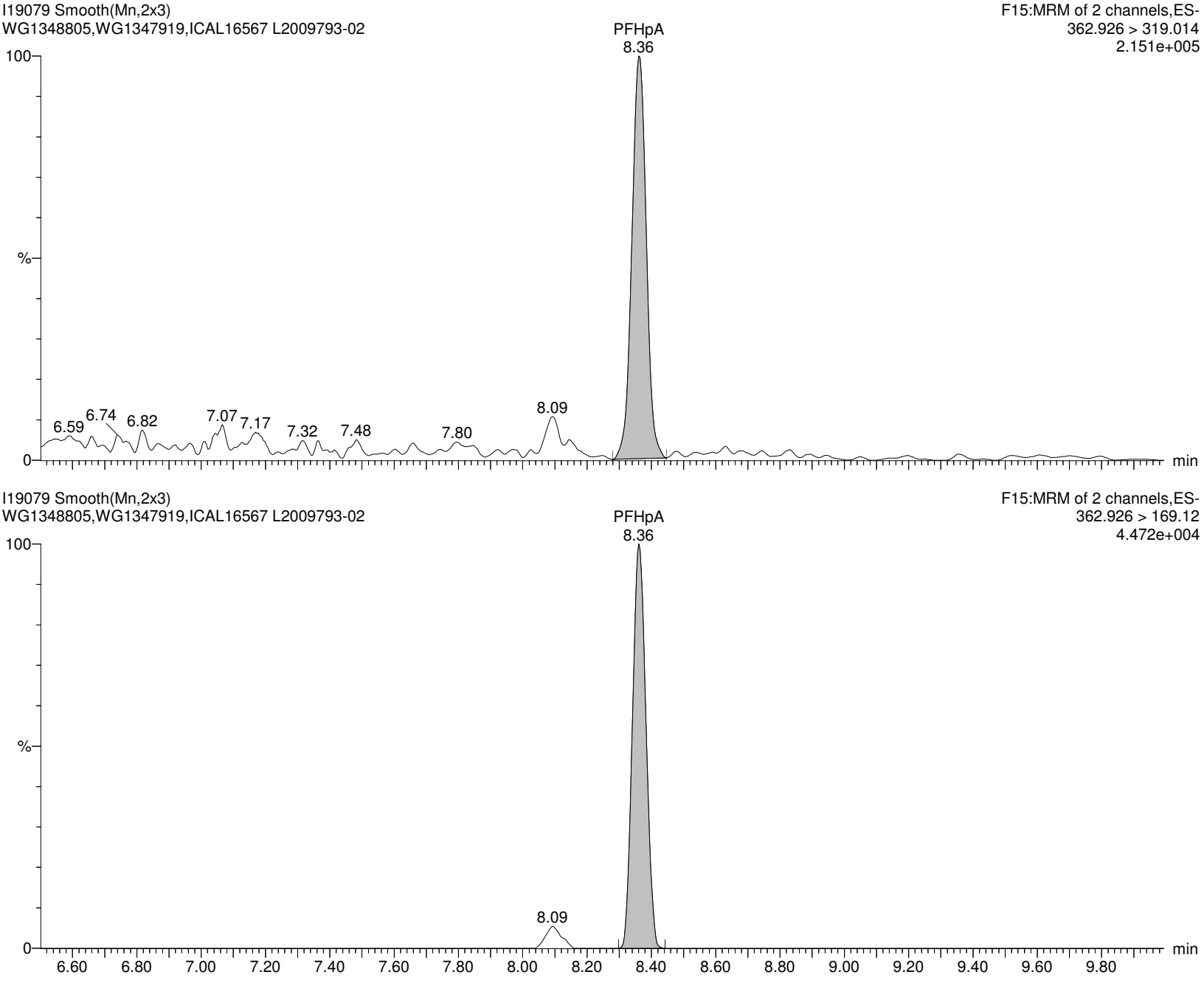

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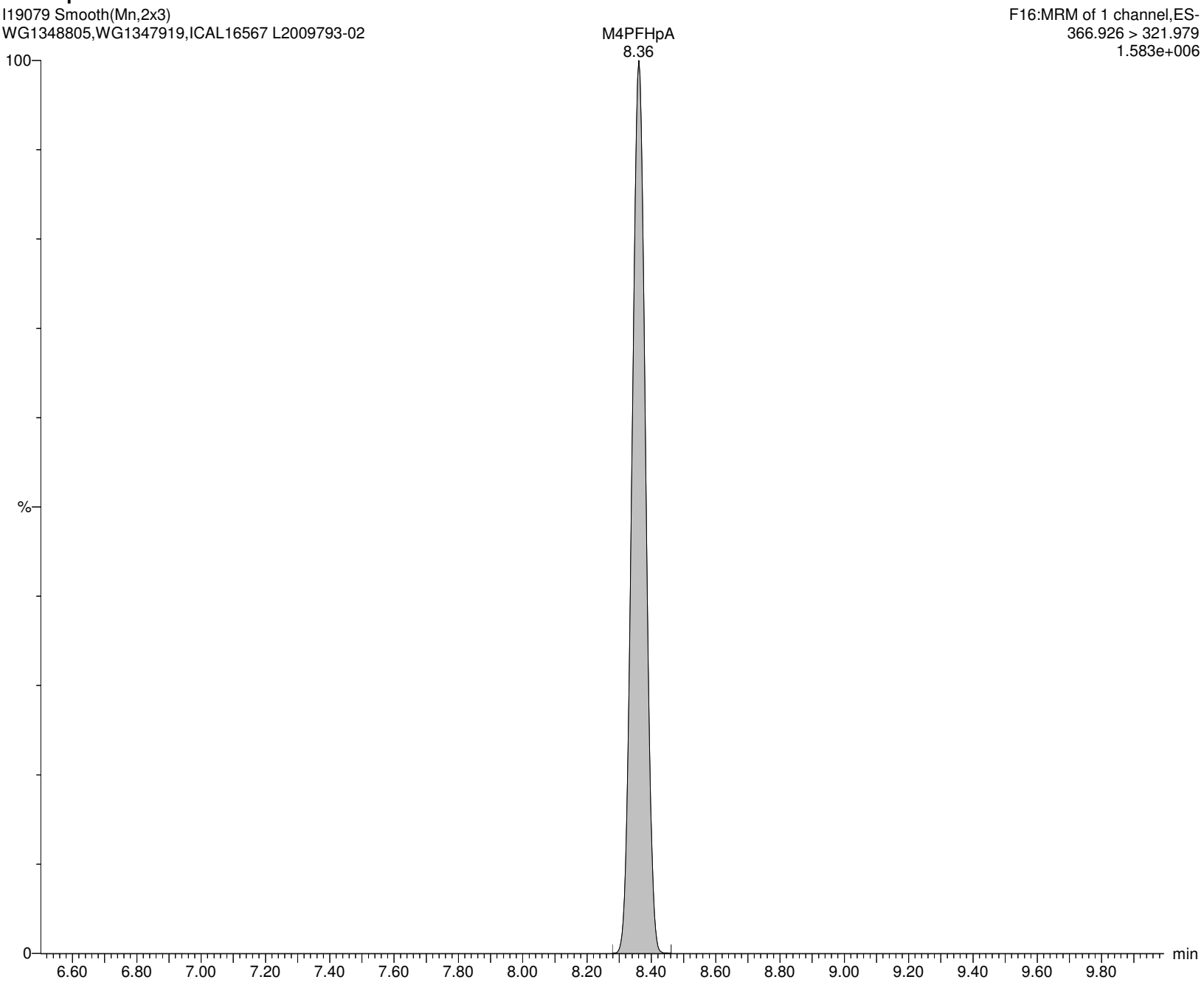

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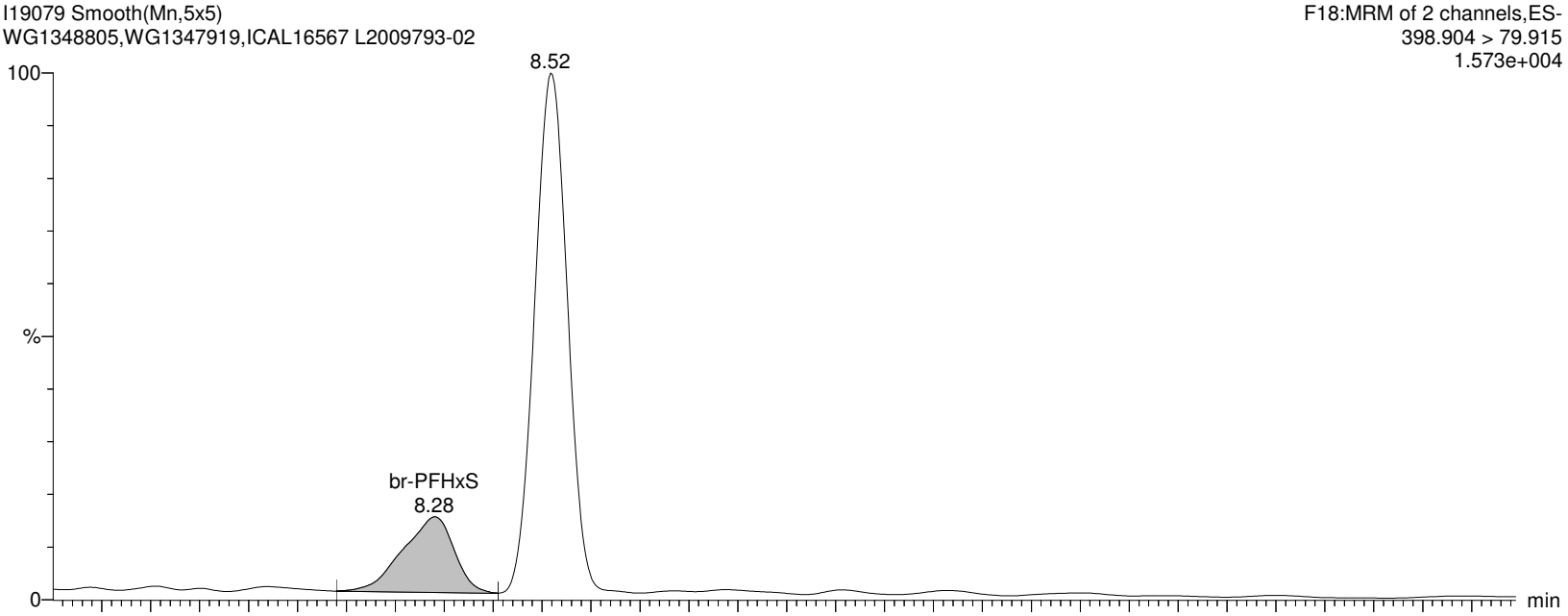

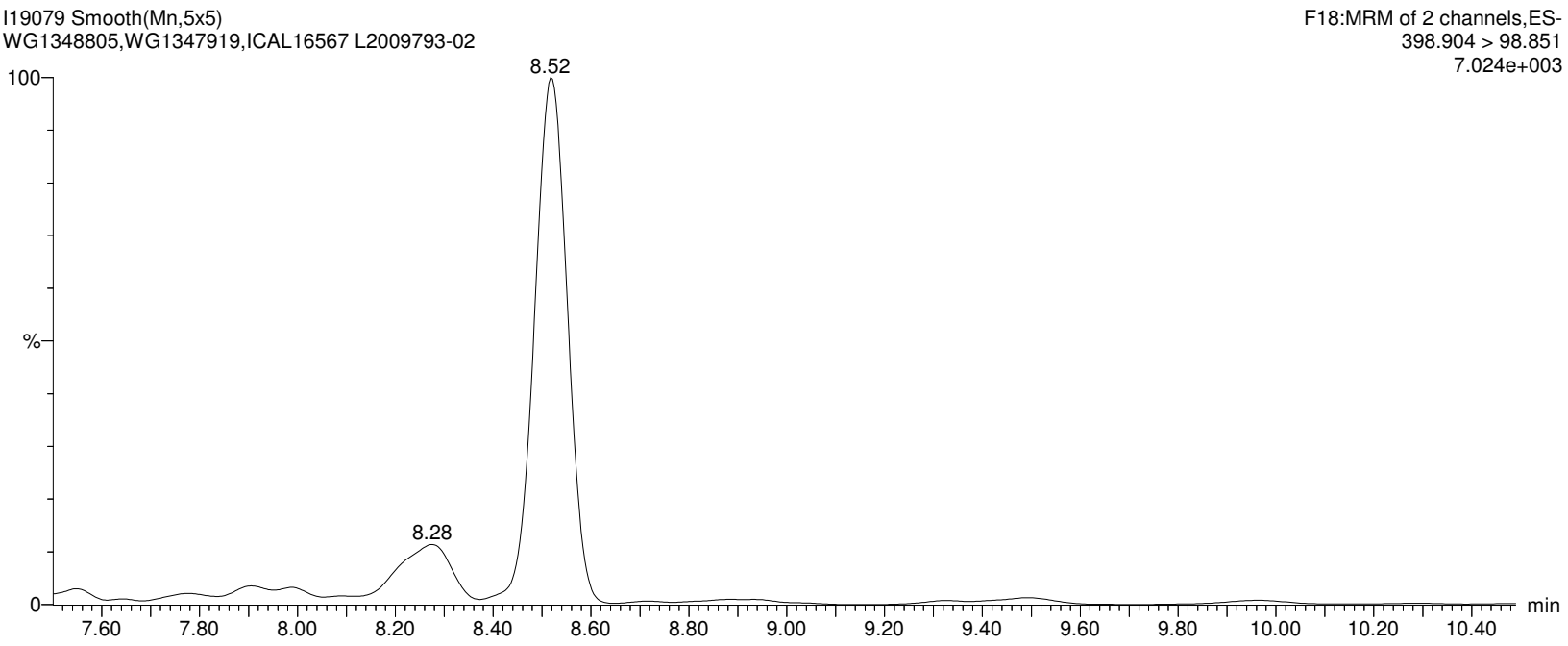

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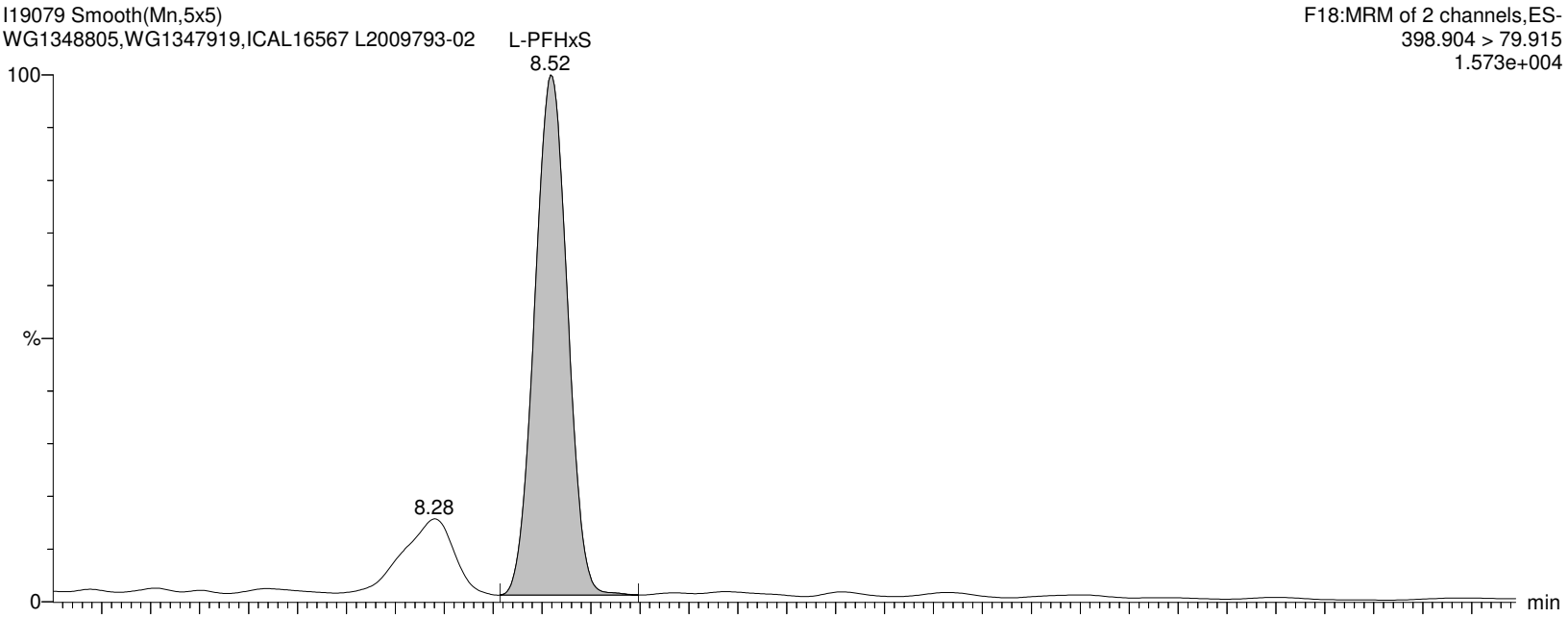

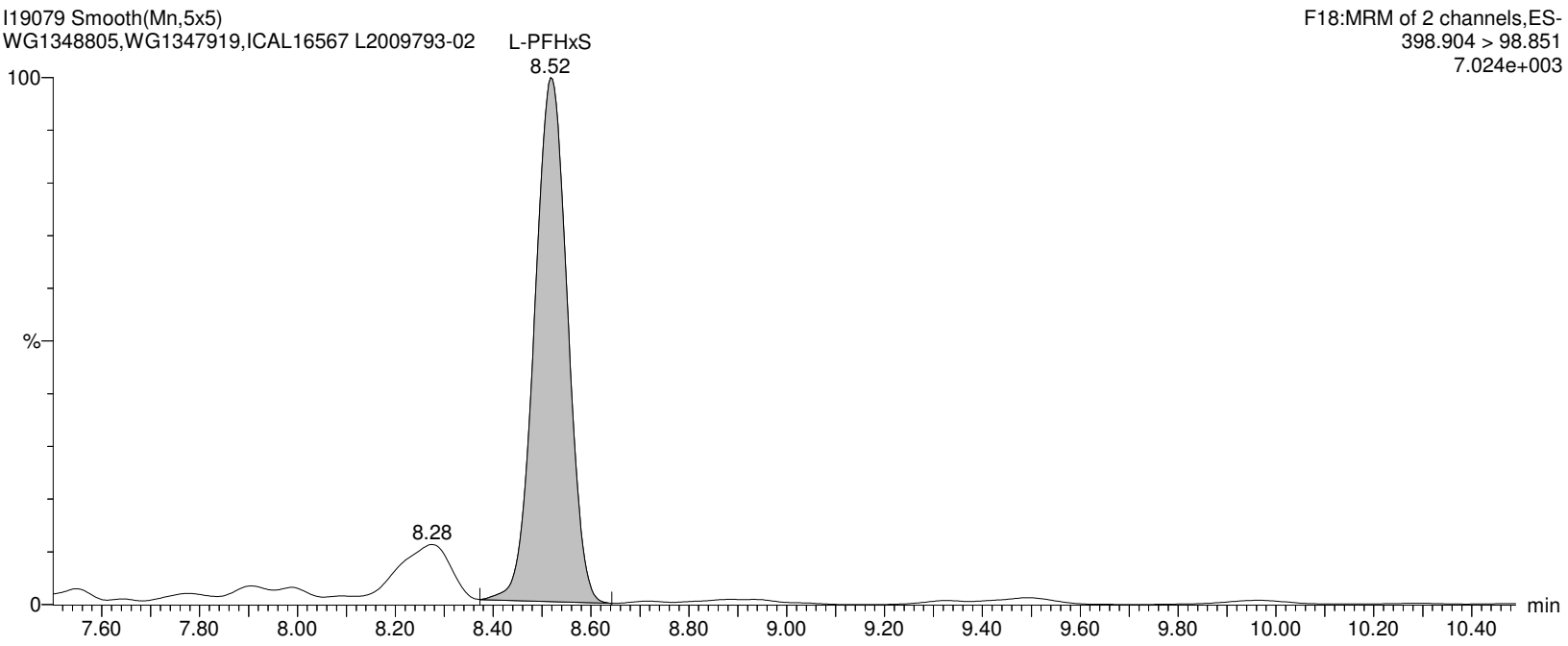

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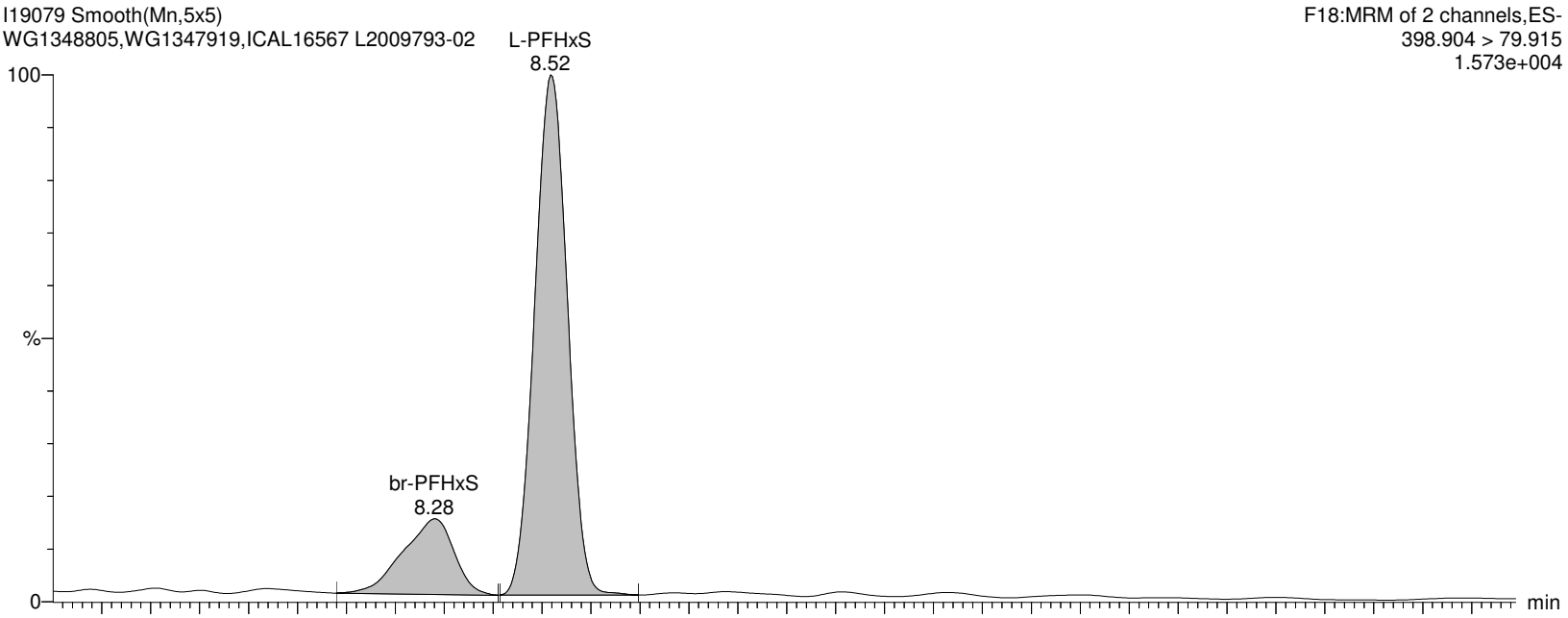

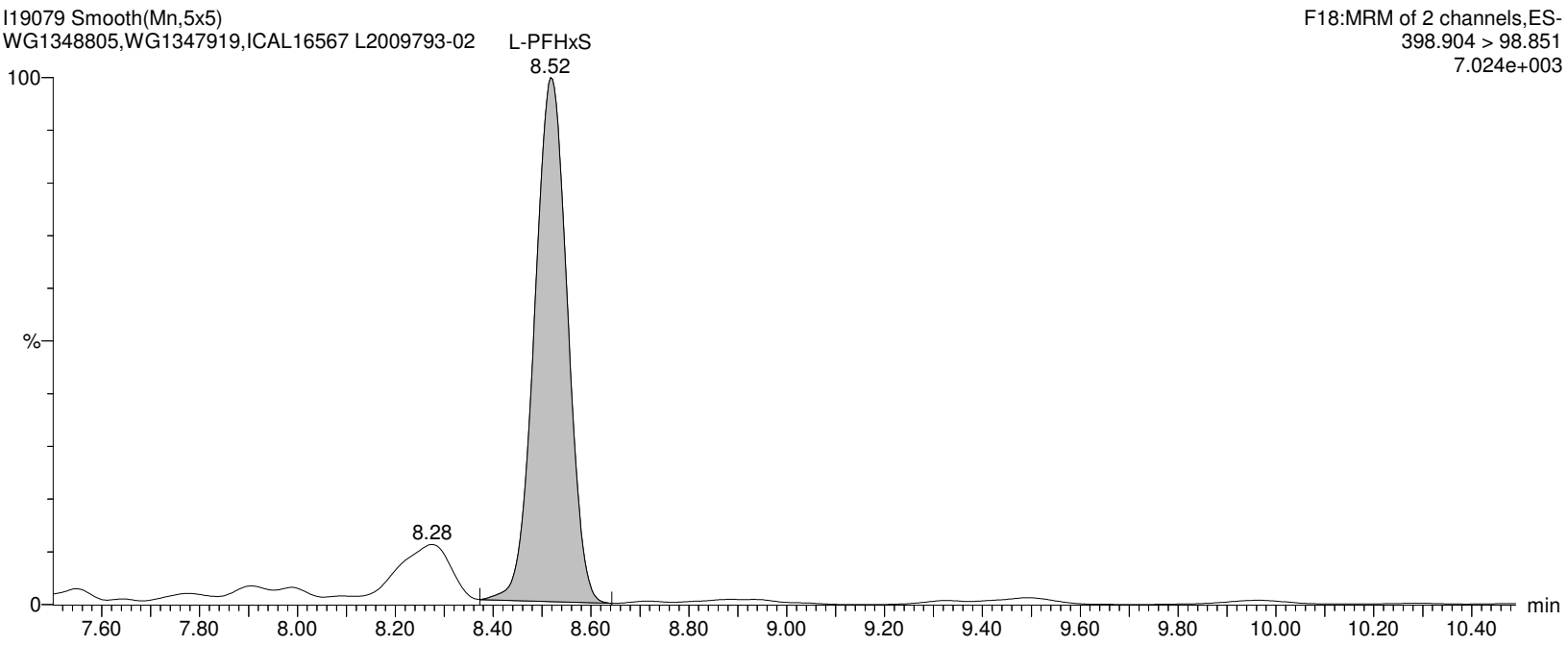

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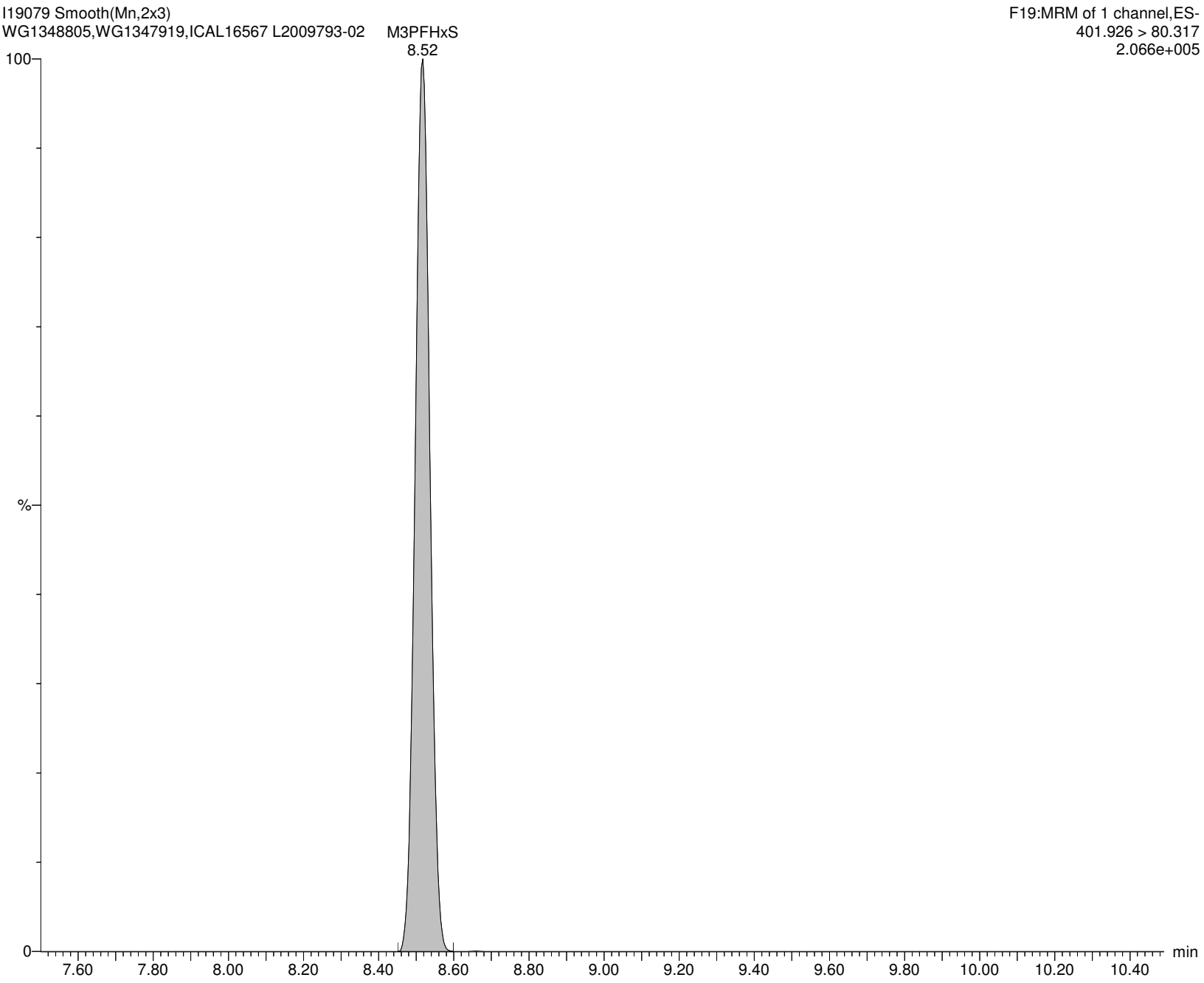

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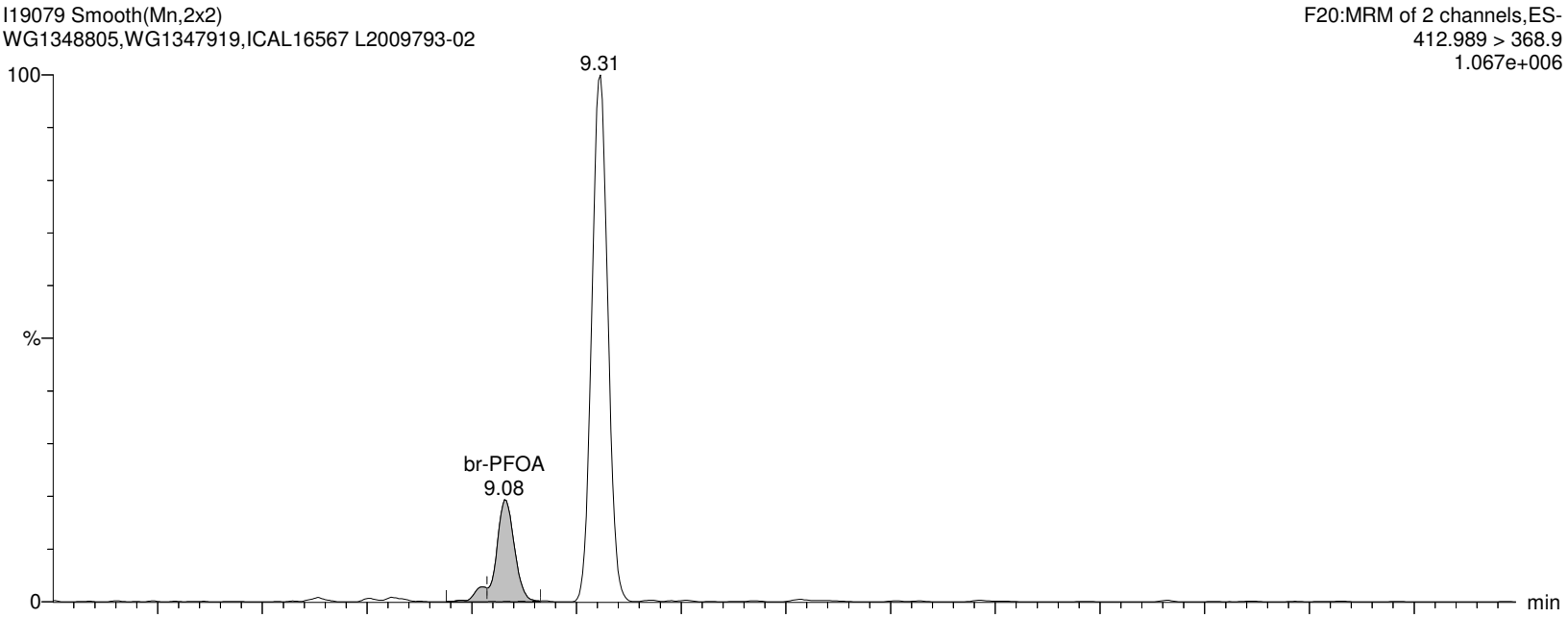

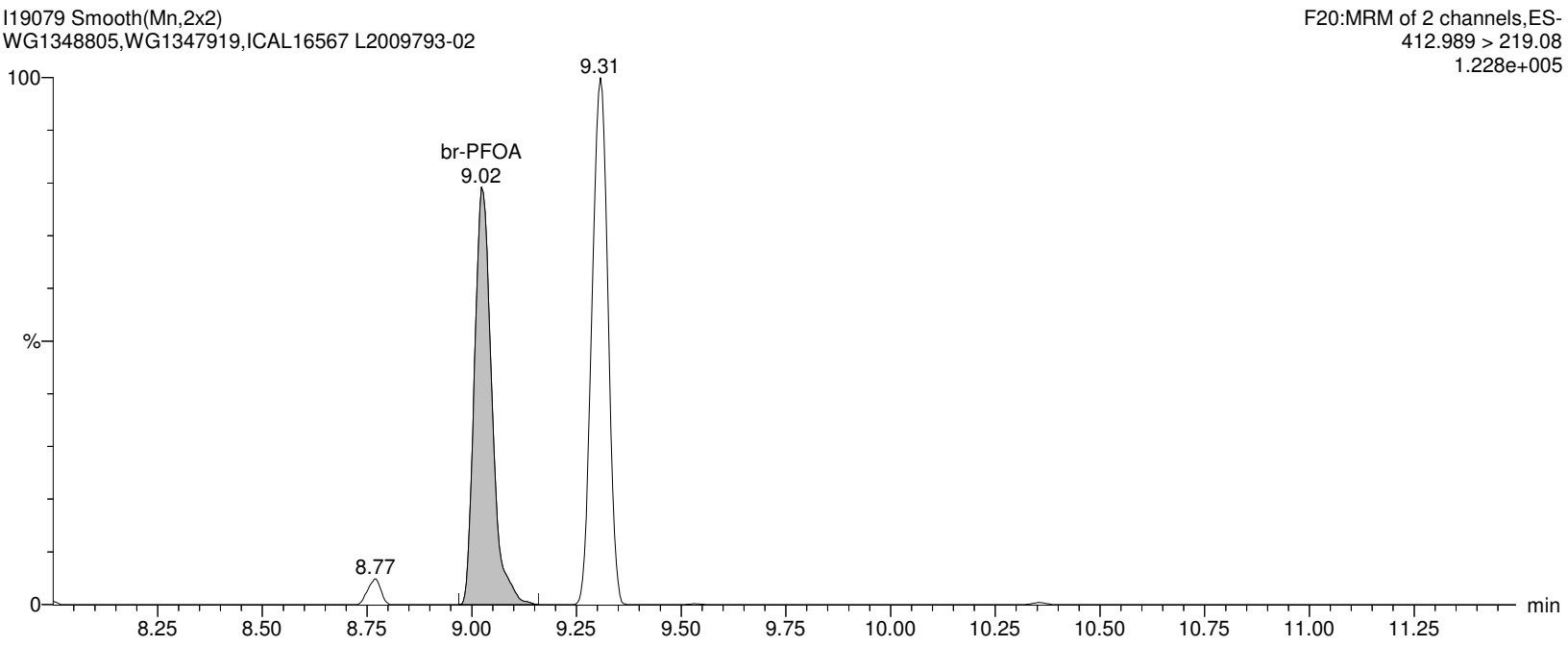

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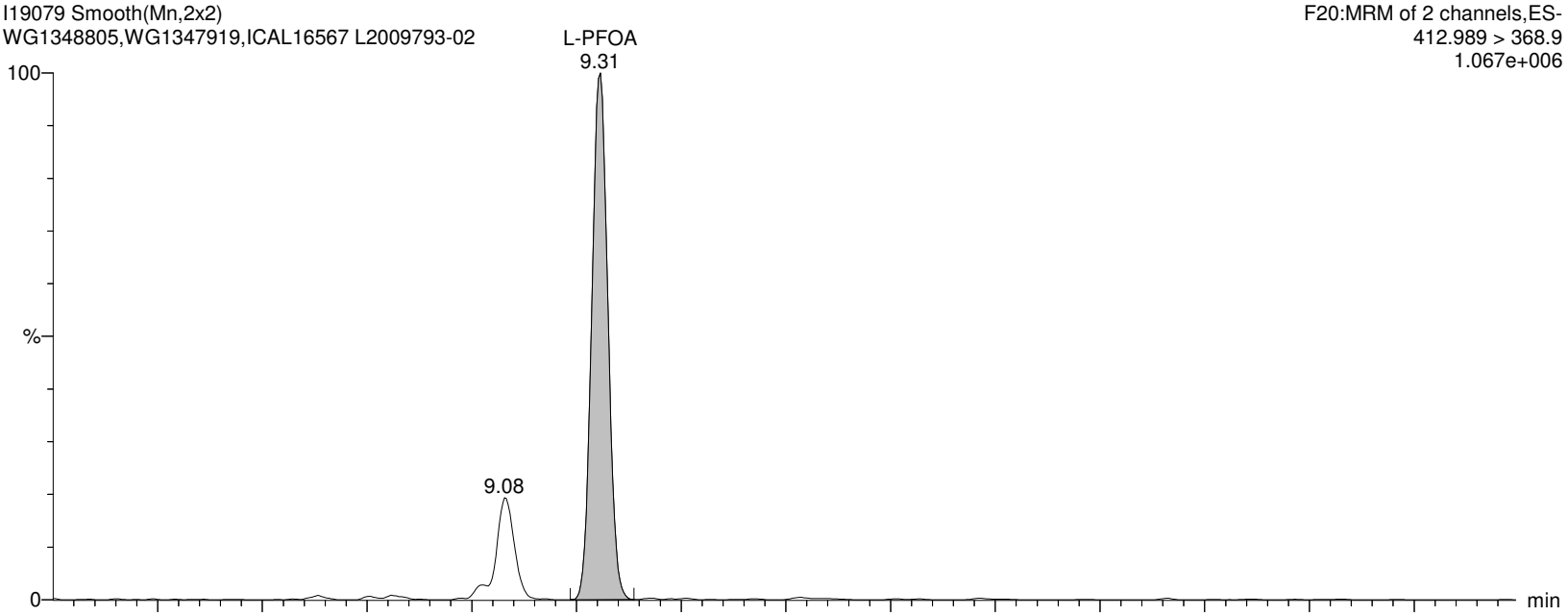

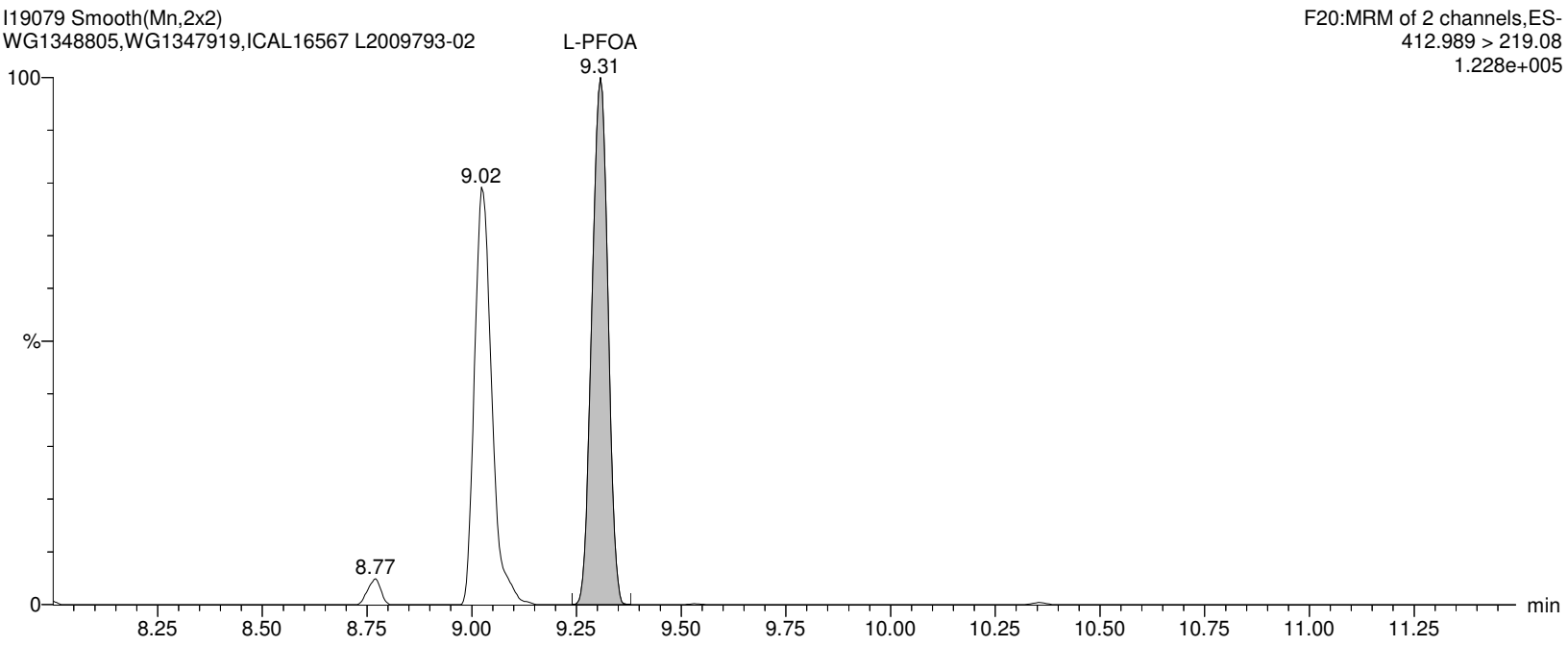

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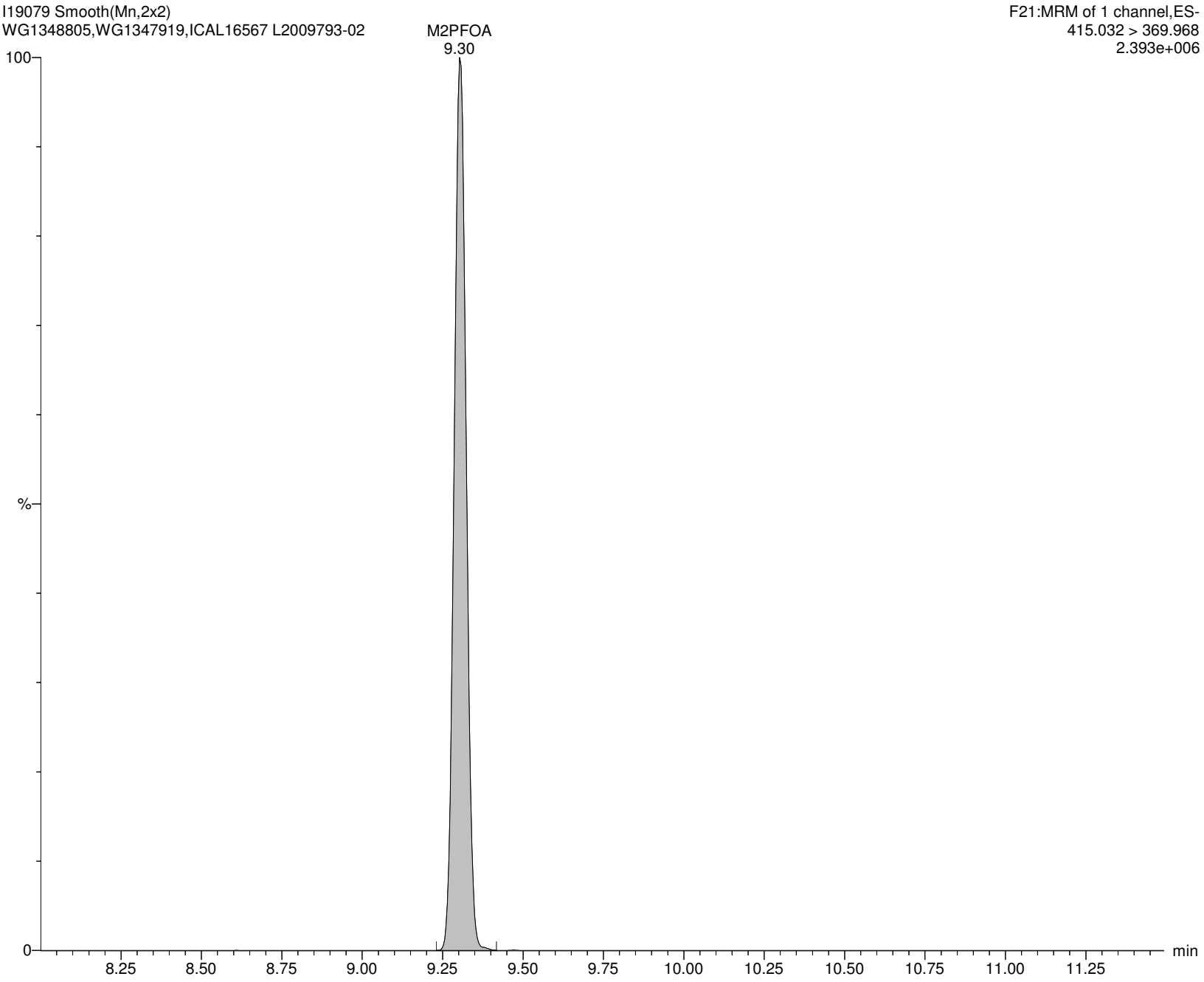

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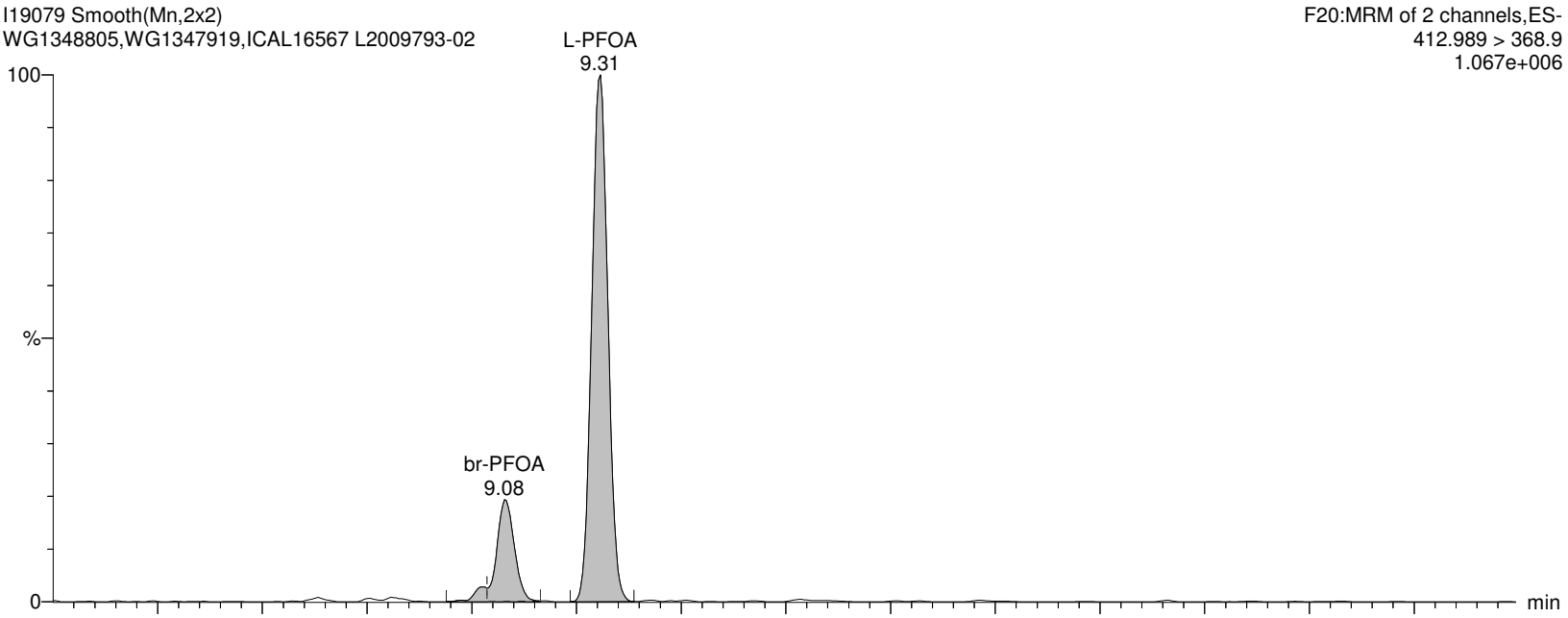

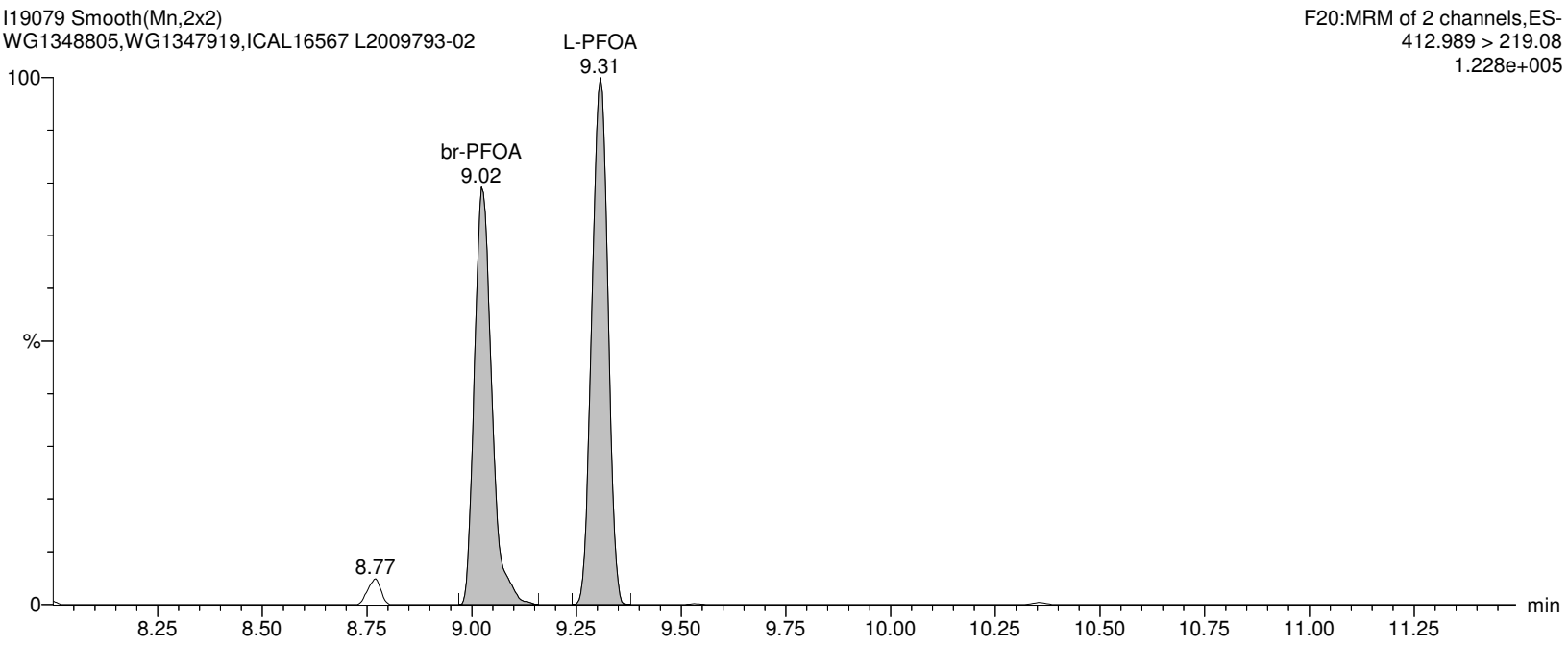

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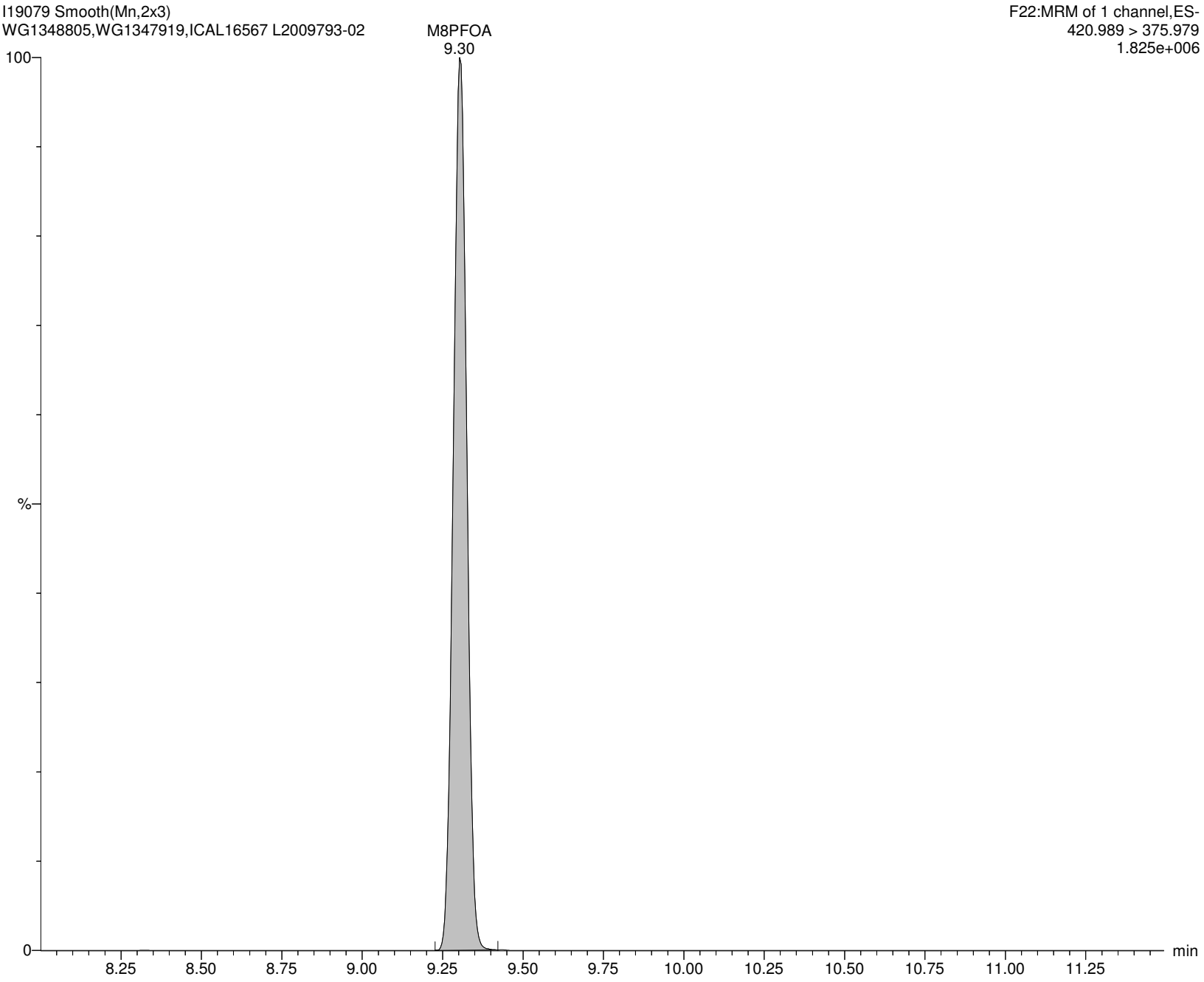

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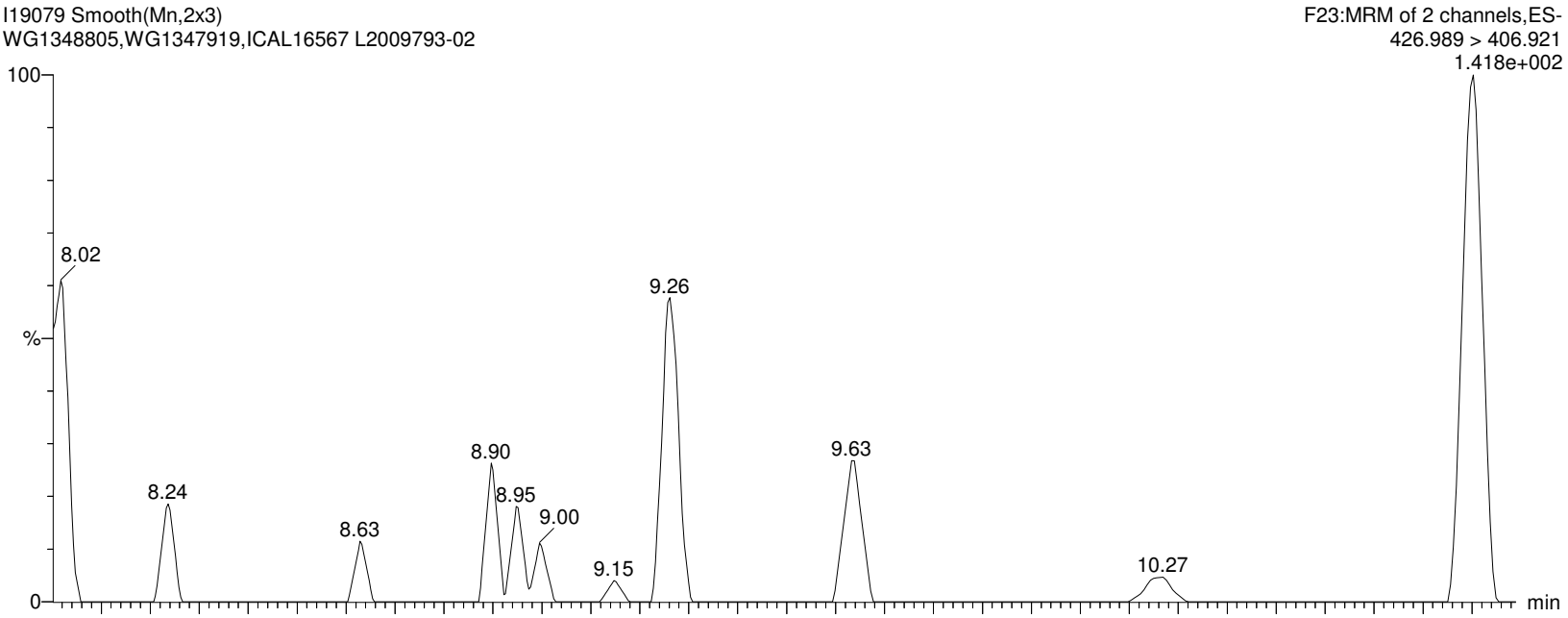

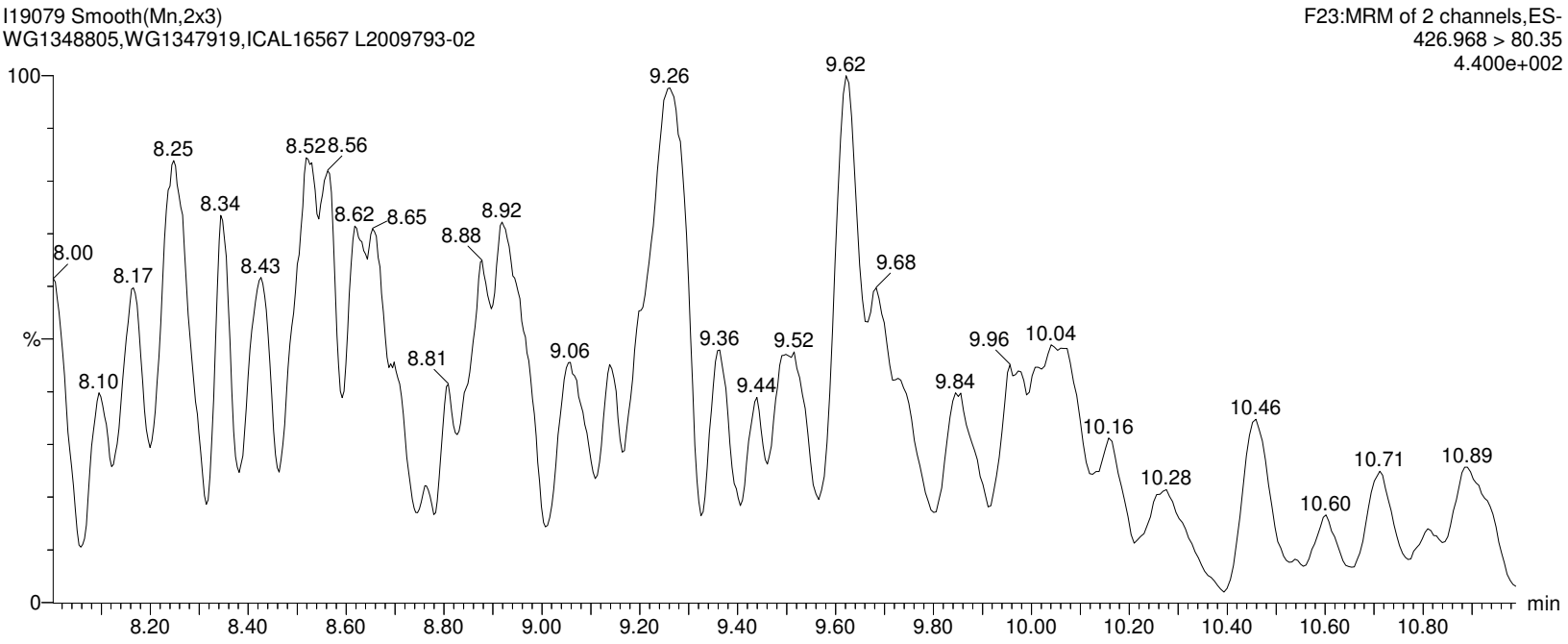

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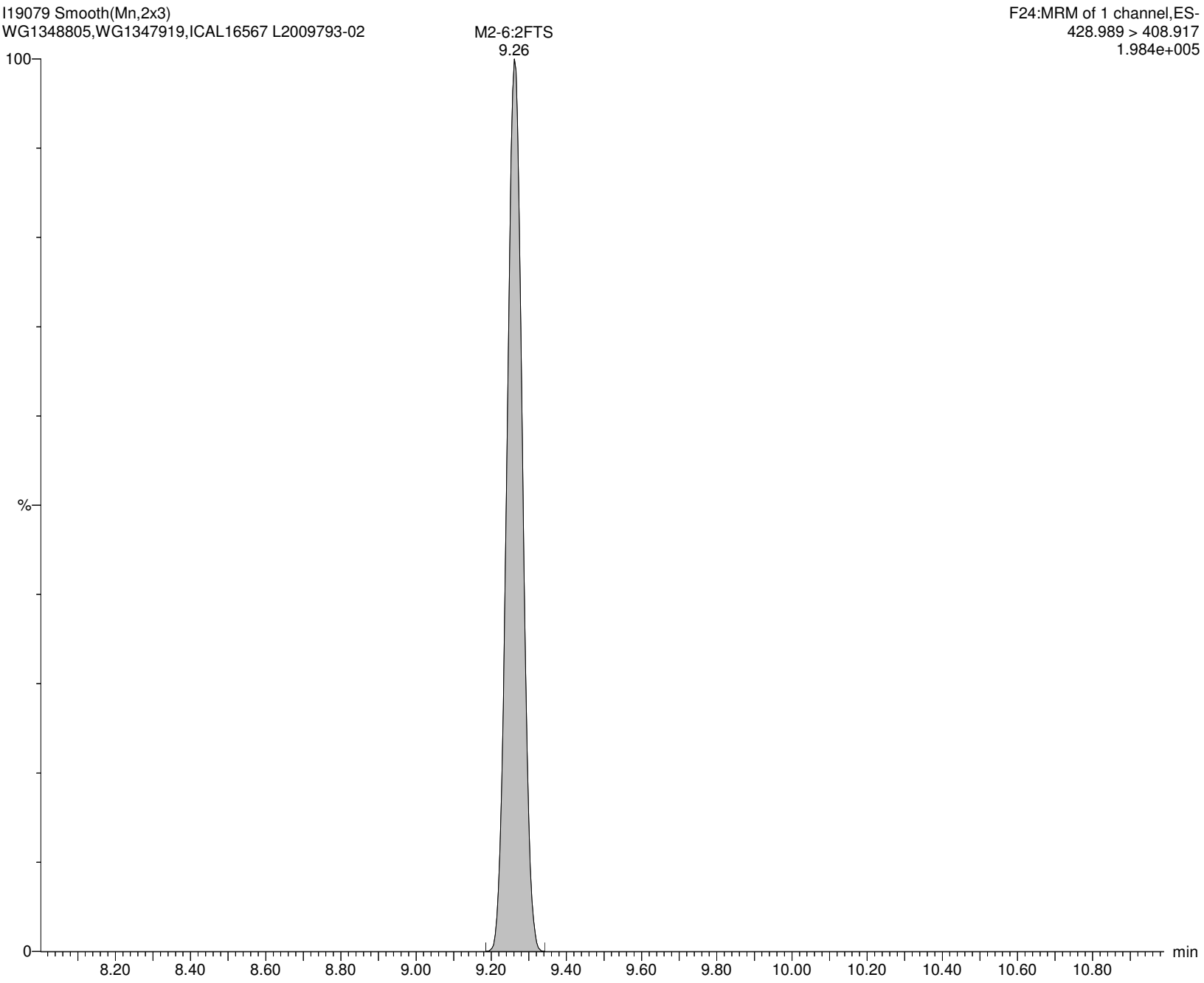

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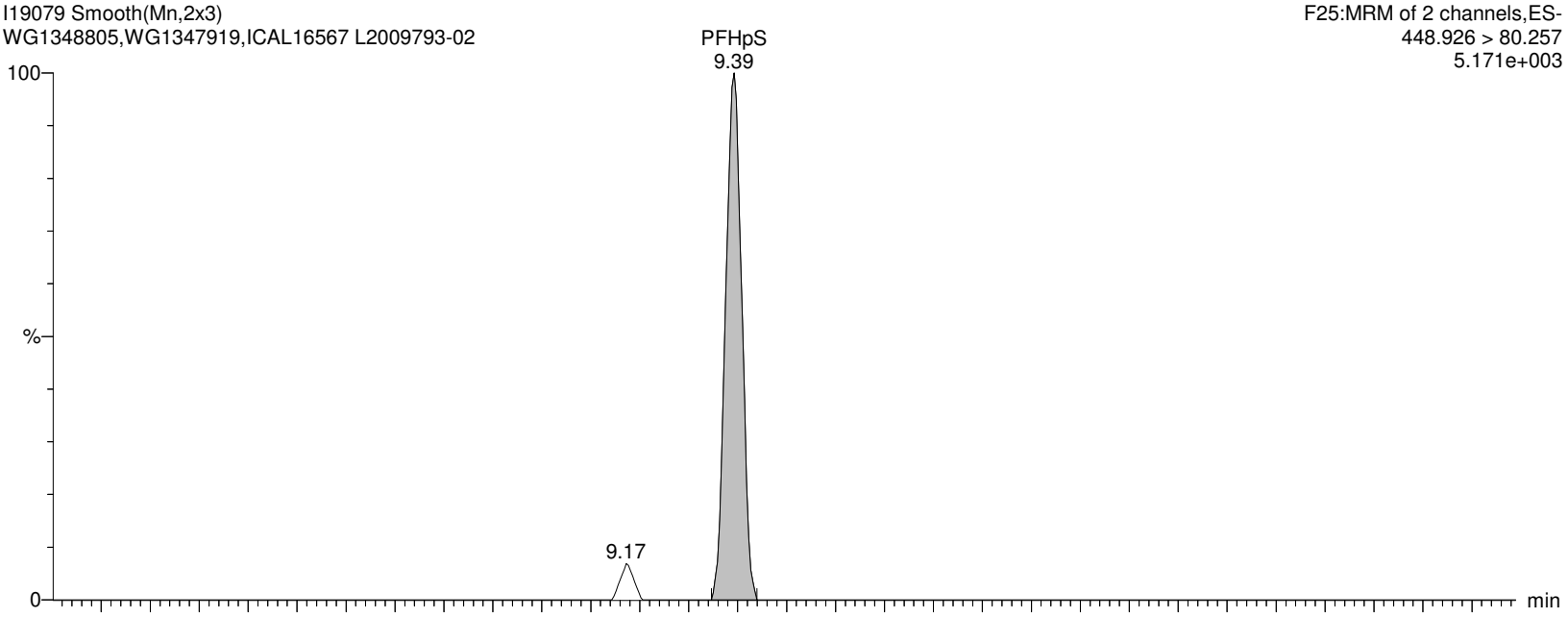

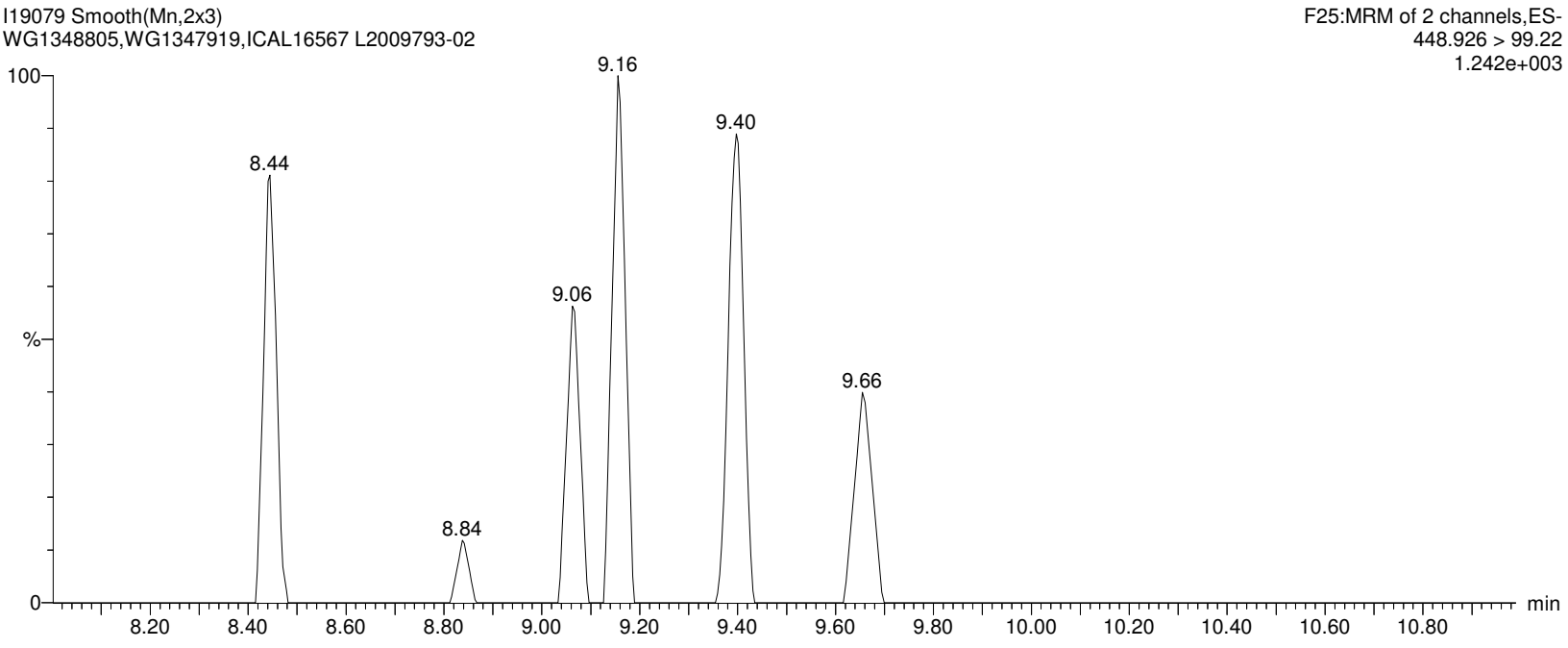

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:34:11 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:34:30 Eastern Daylight Time

Name: I19079
ID: L2009793-02
Date: 09-Mar-2020
Time: 15:40:07
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
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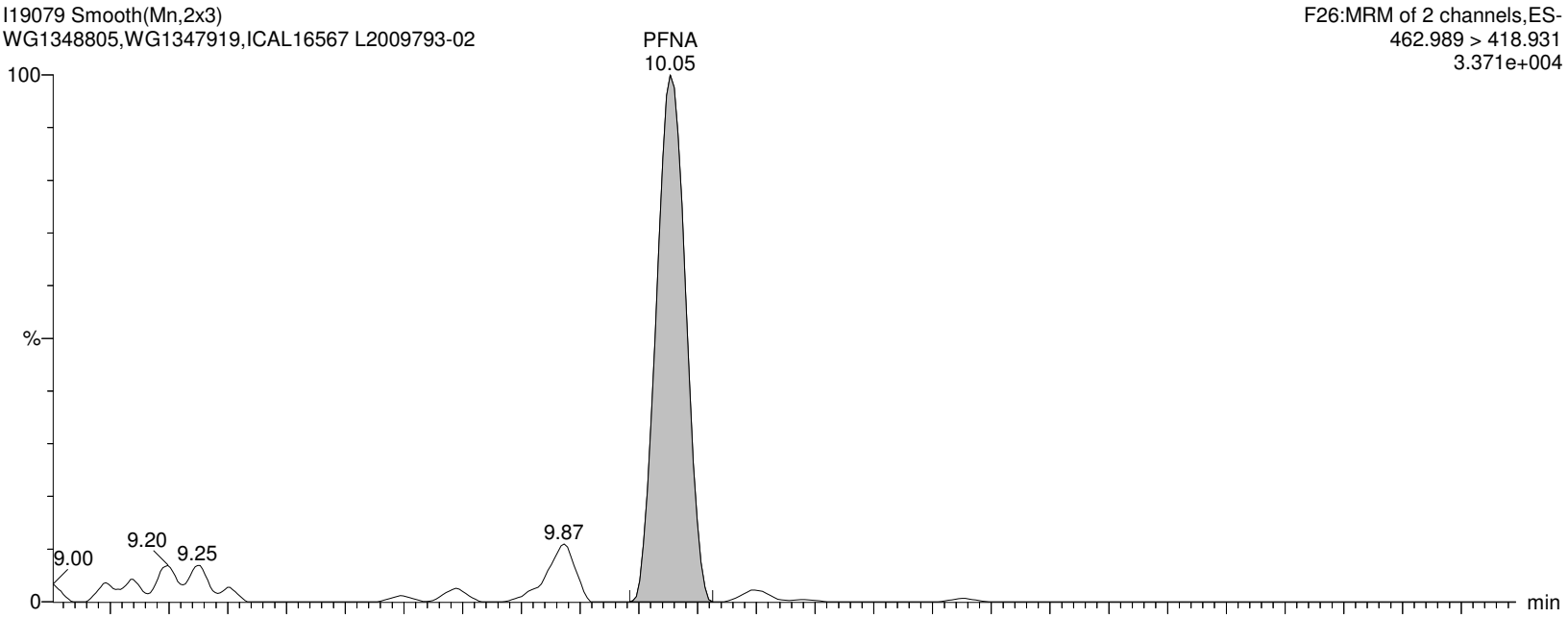

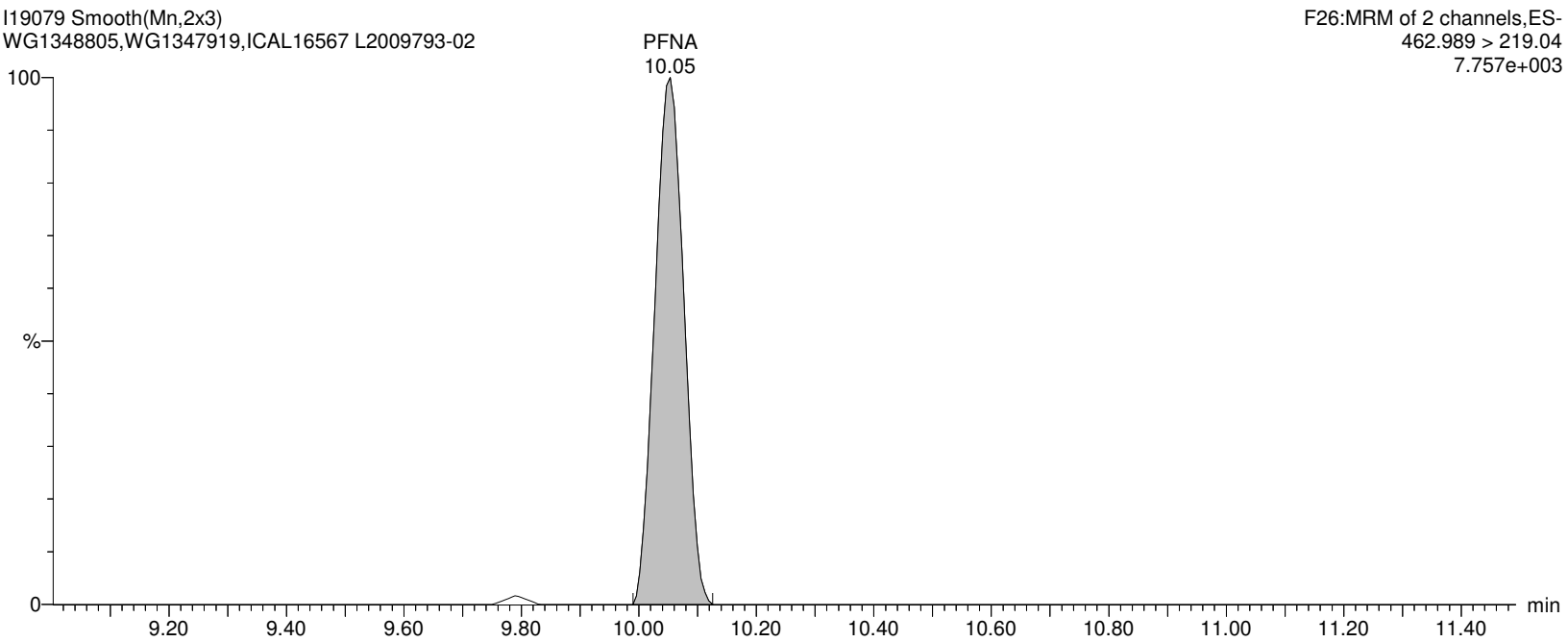

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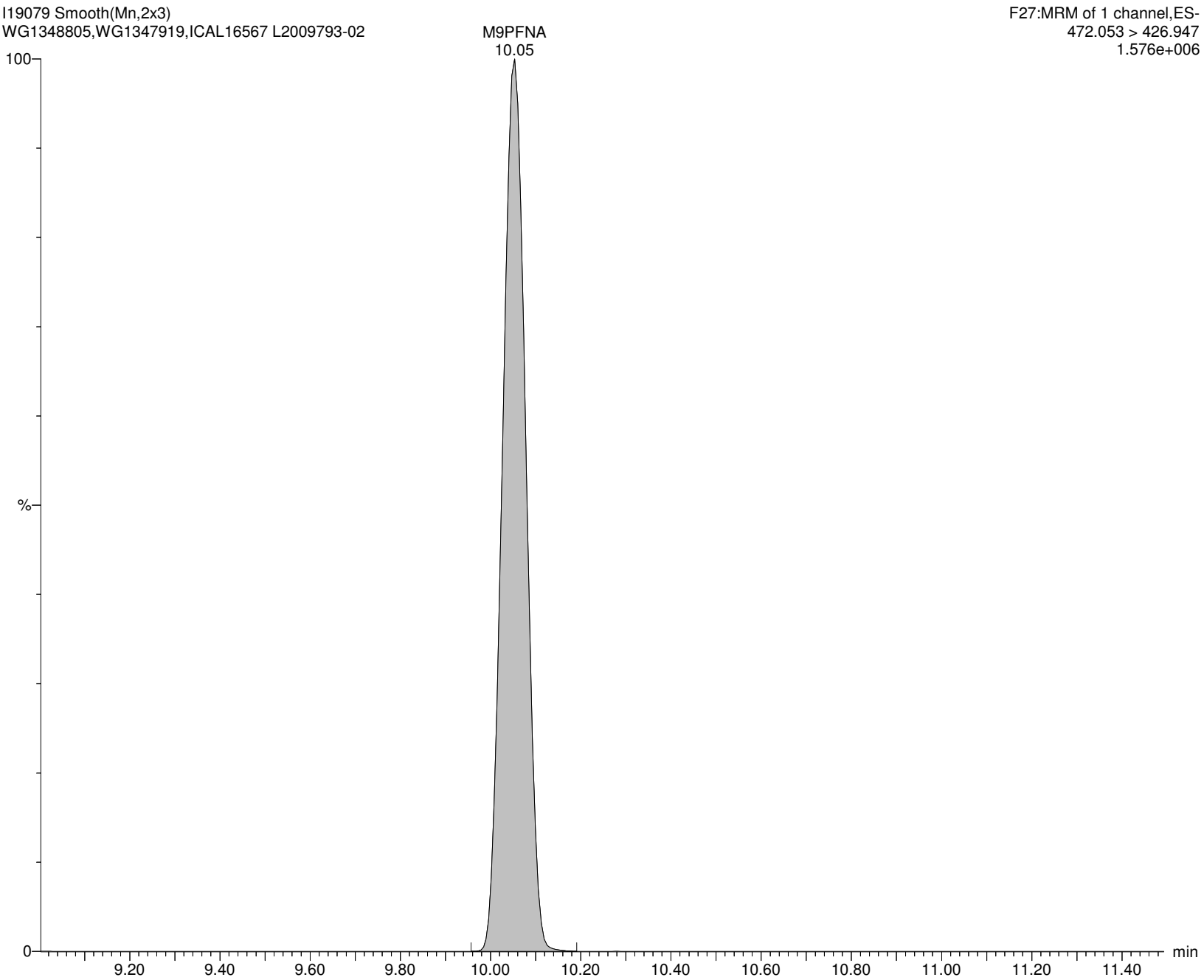

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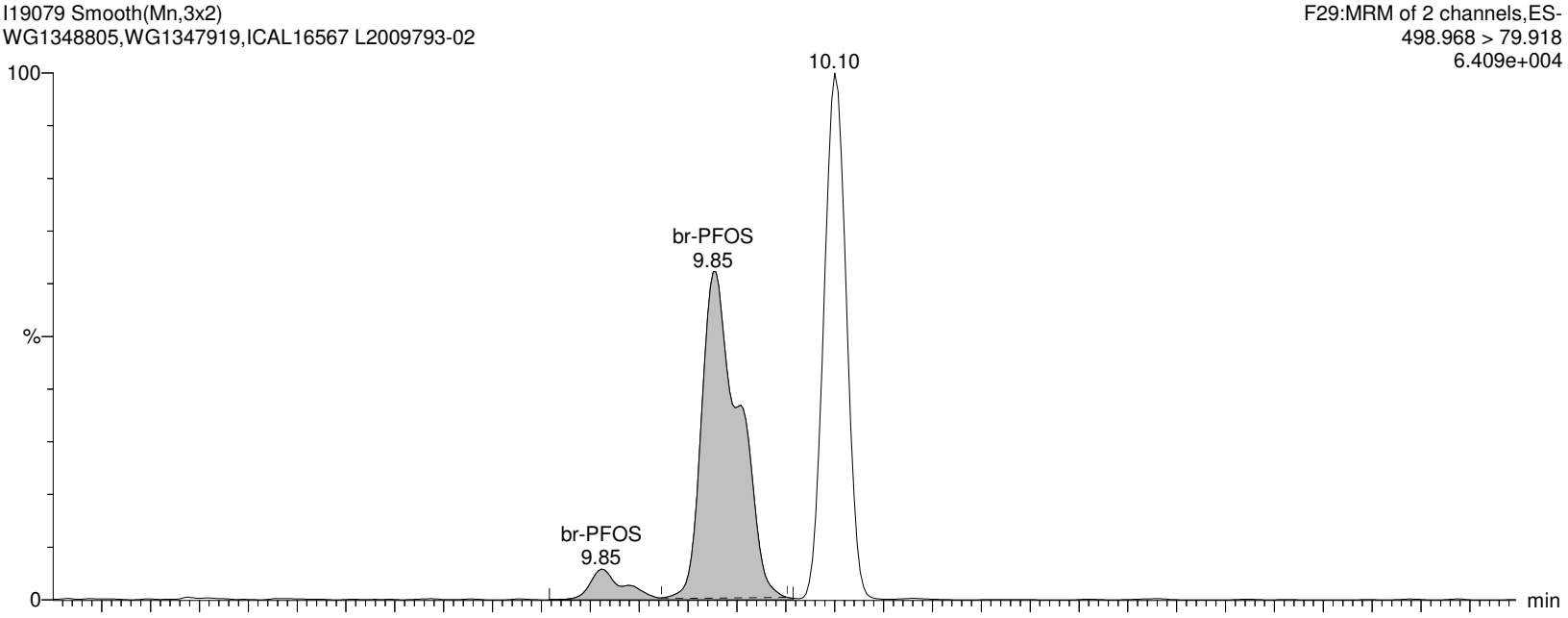

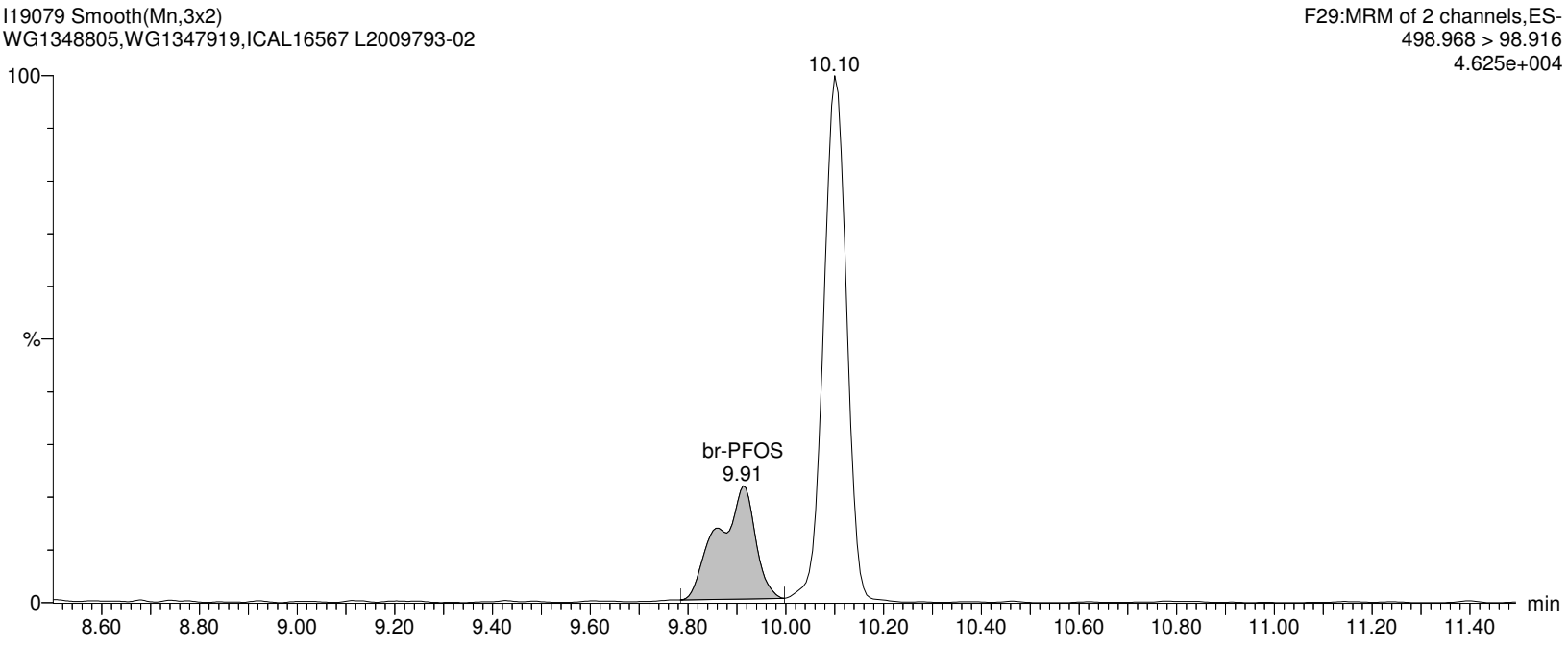

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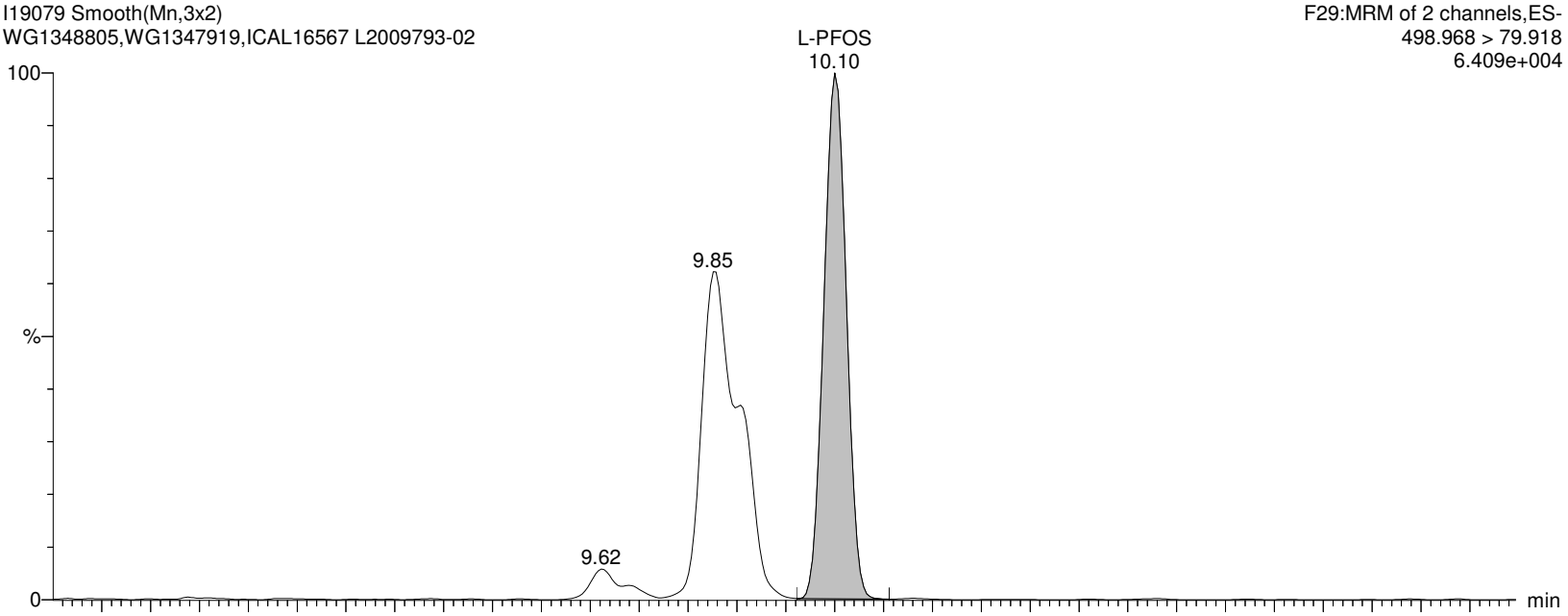
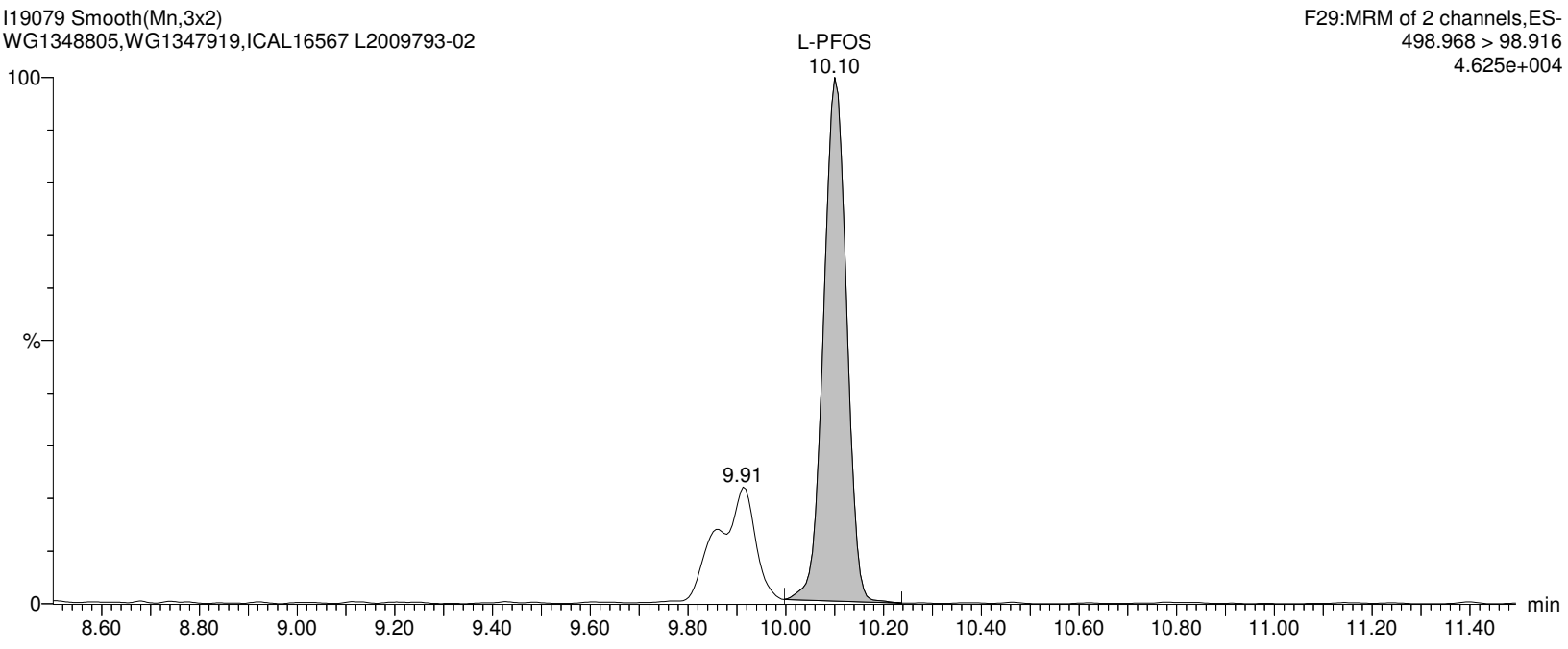
L-PFOS





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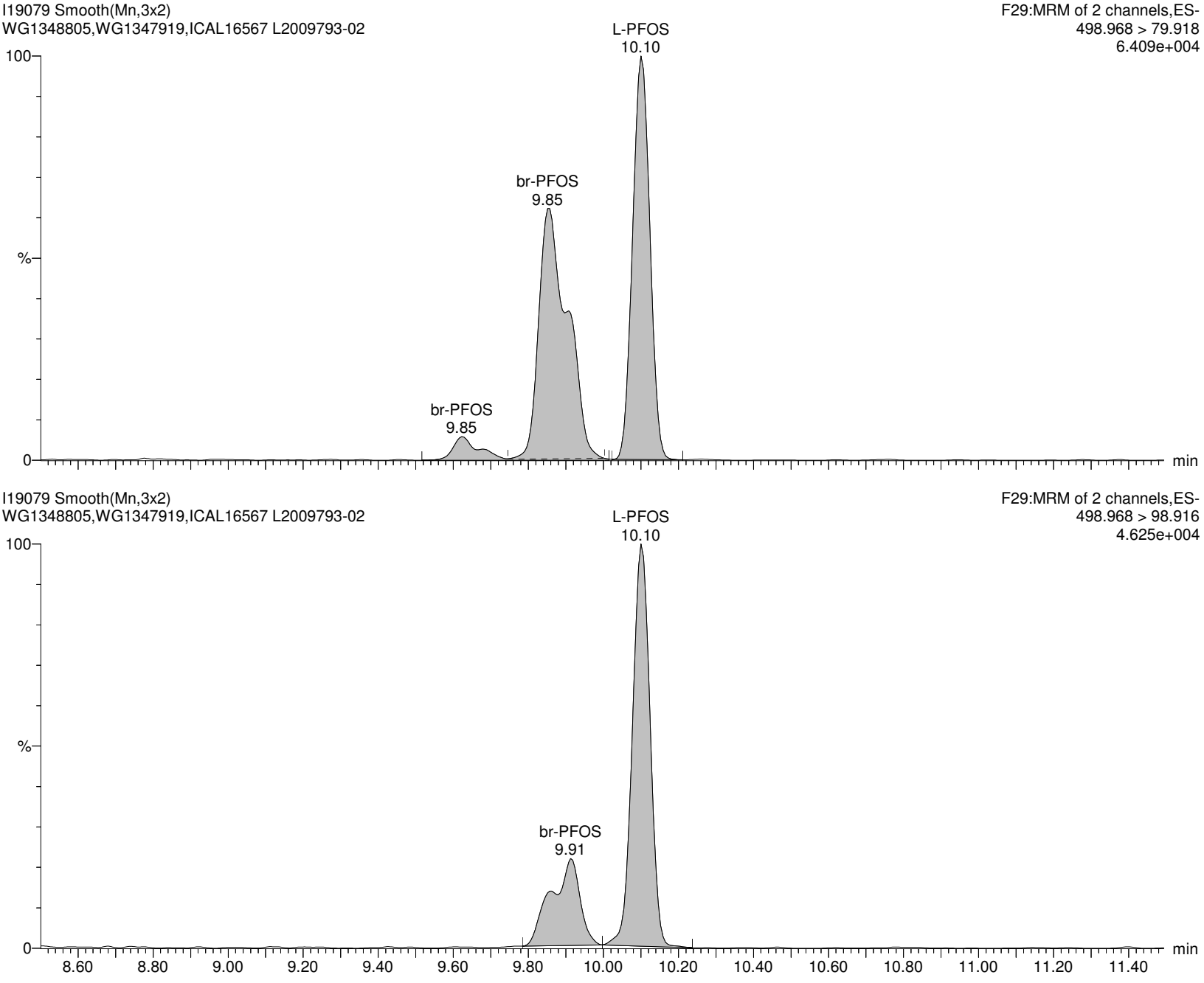

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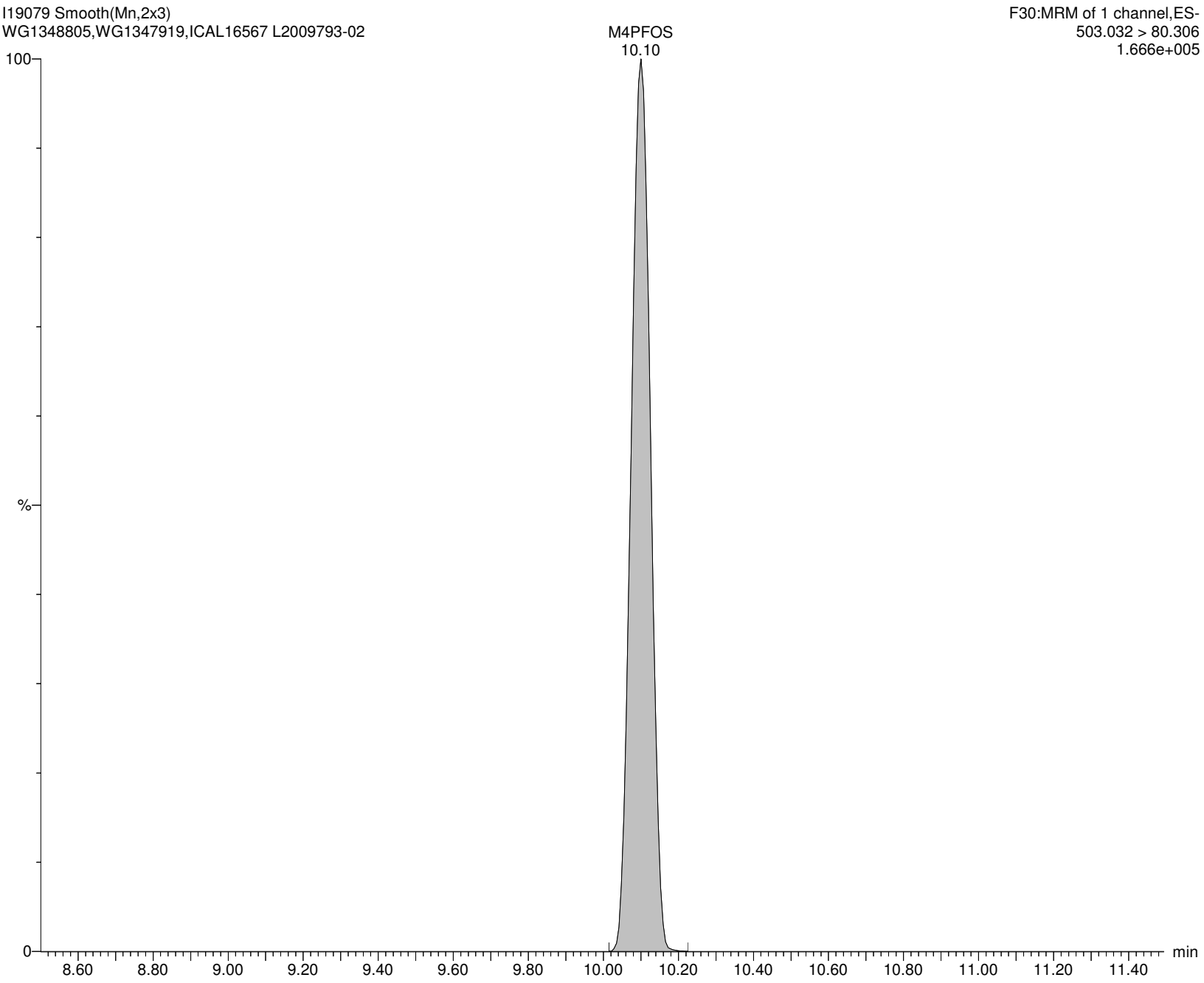

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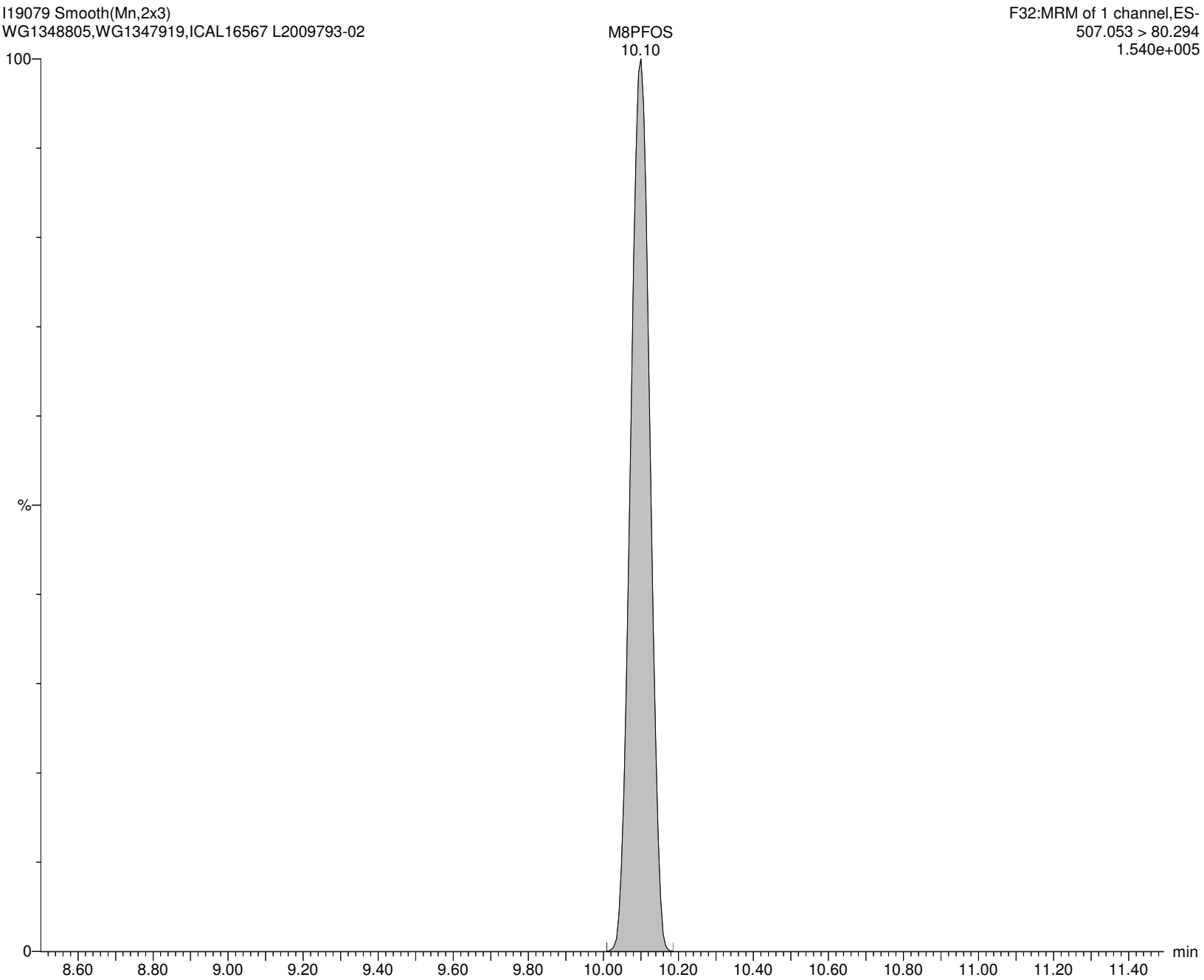

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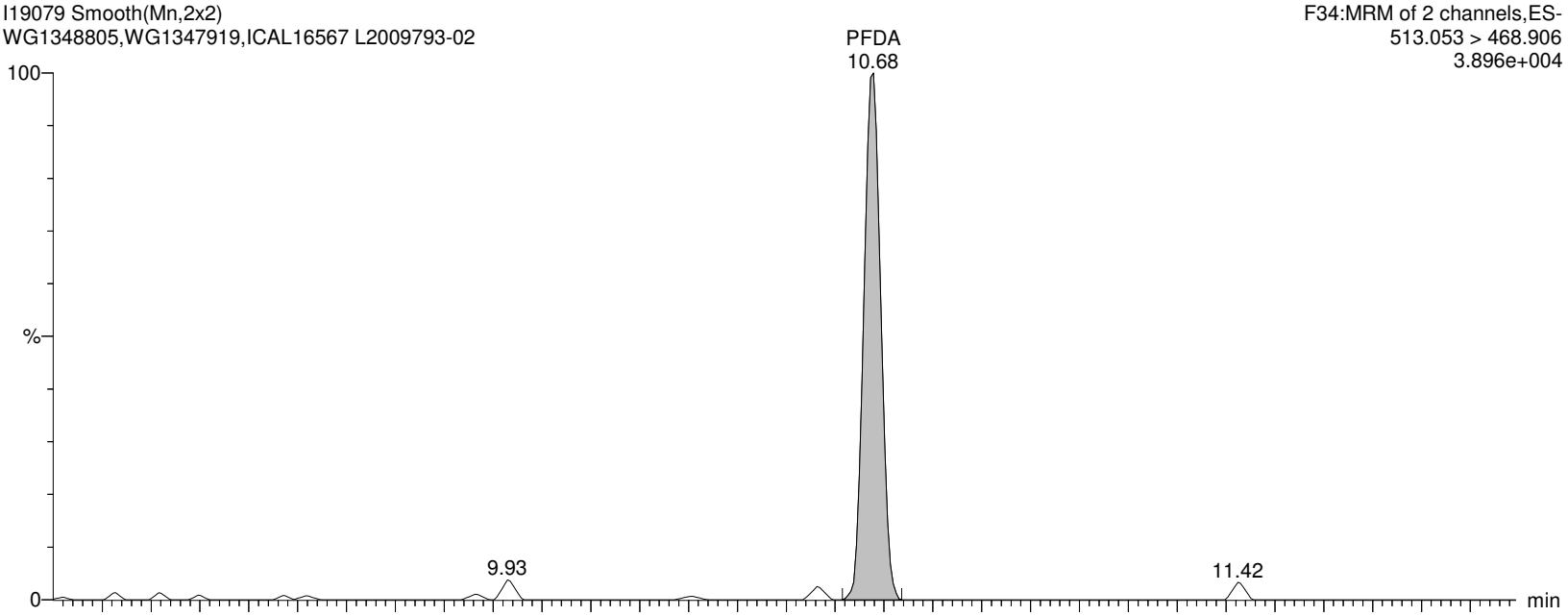

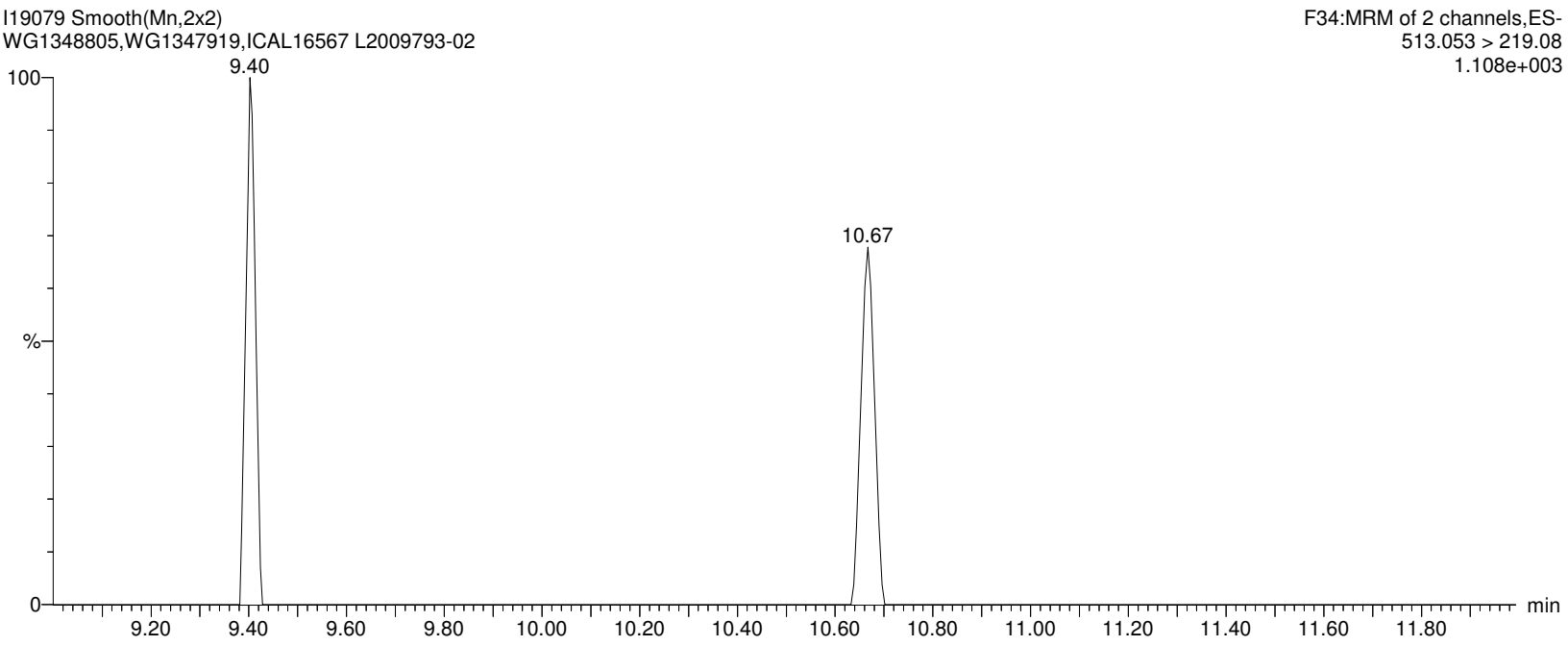

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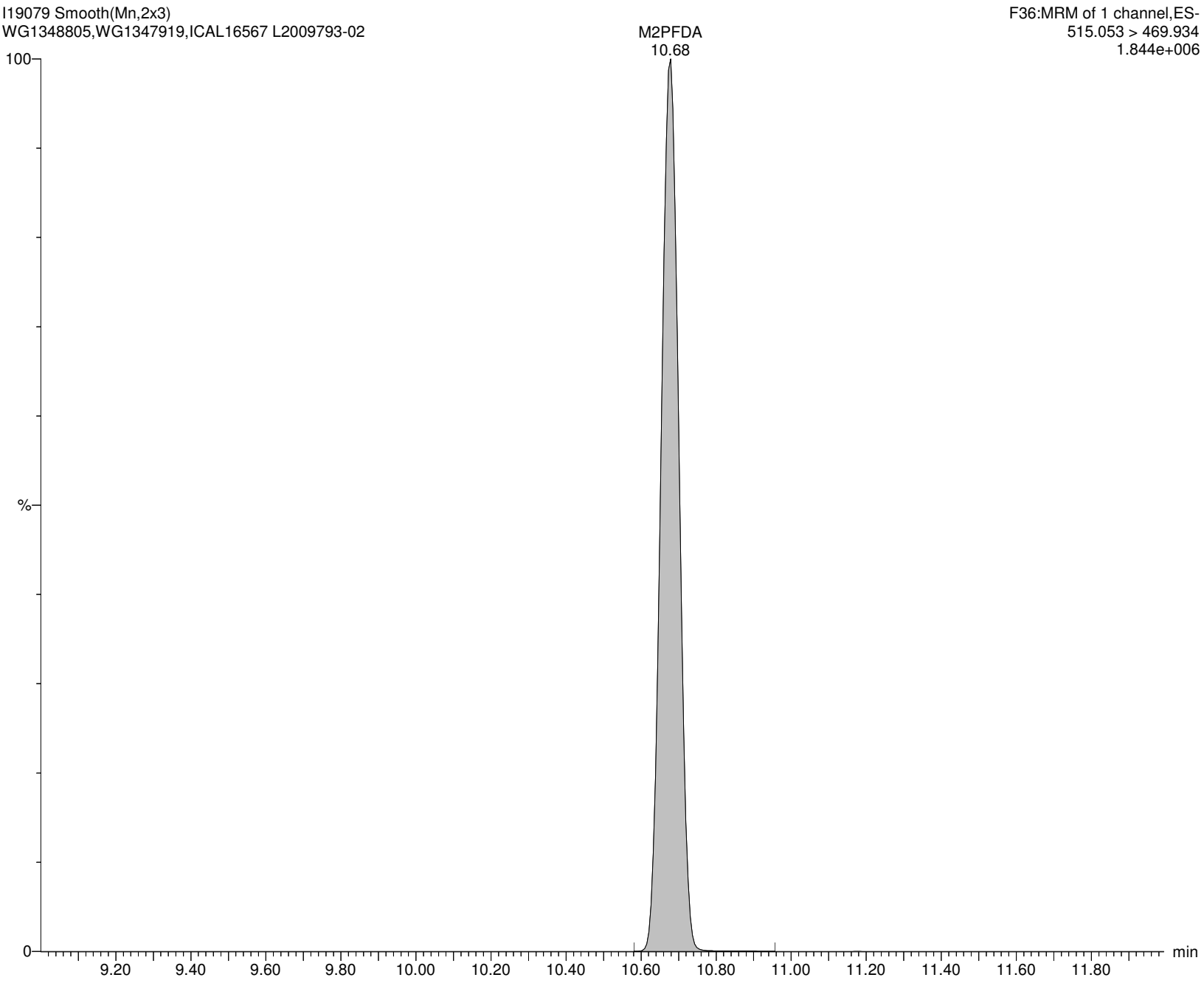

all concentration units in (ng/mL)

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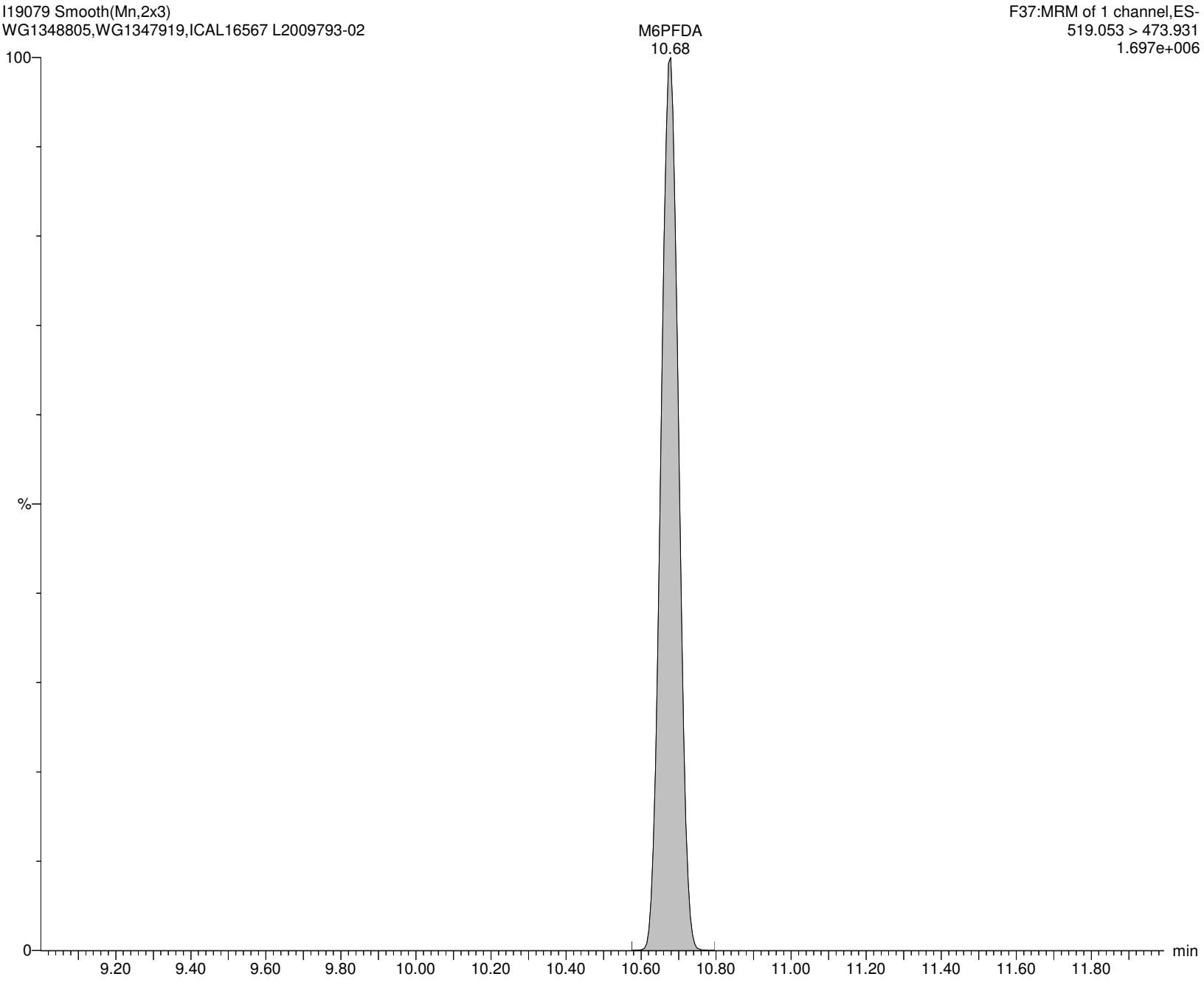

all concentration units in (ng/mL)

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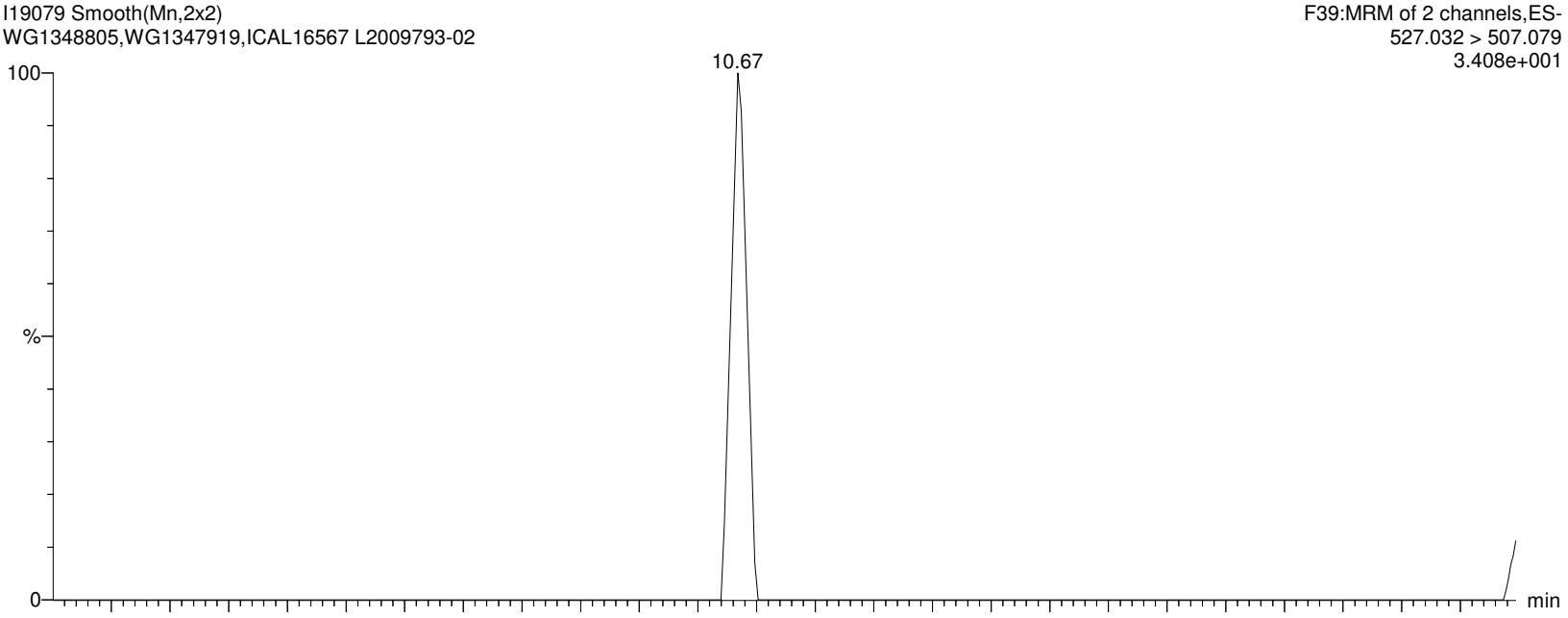

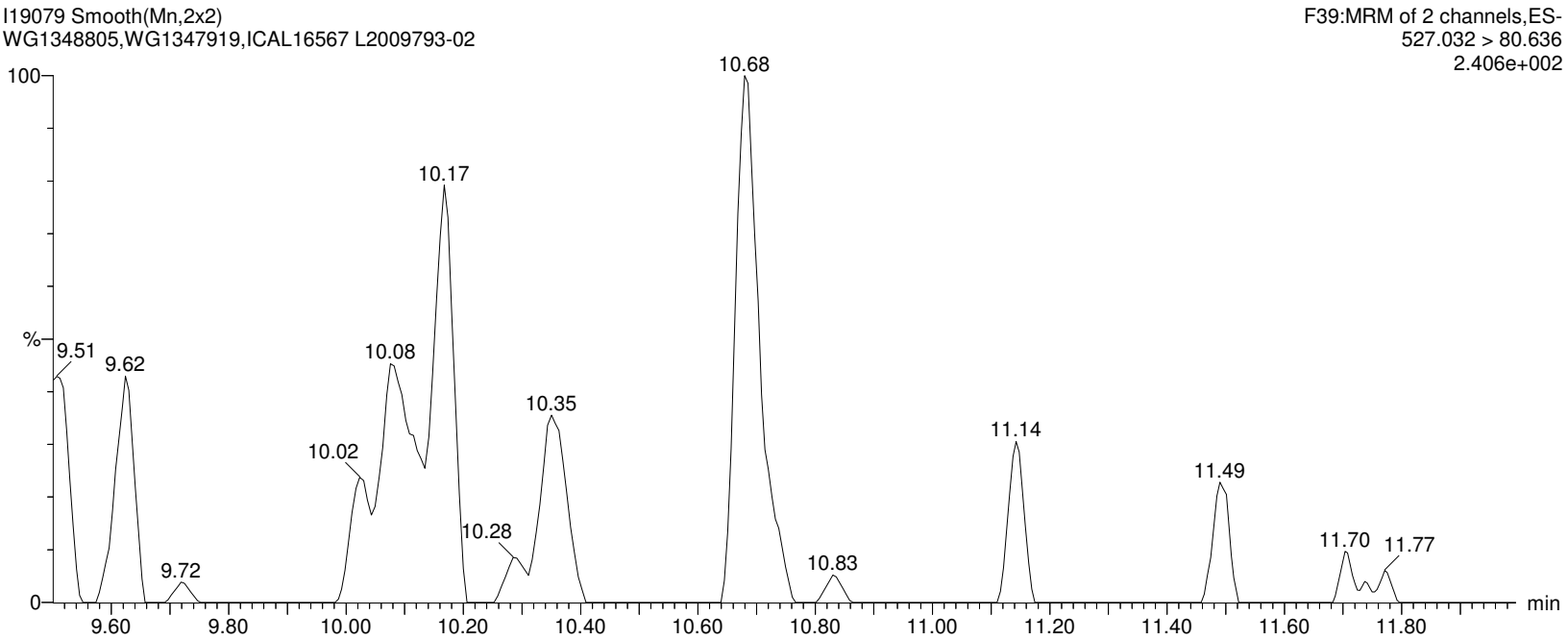

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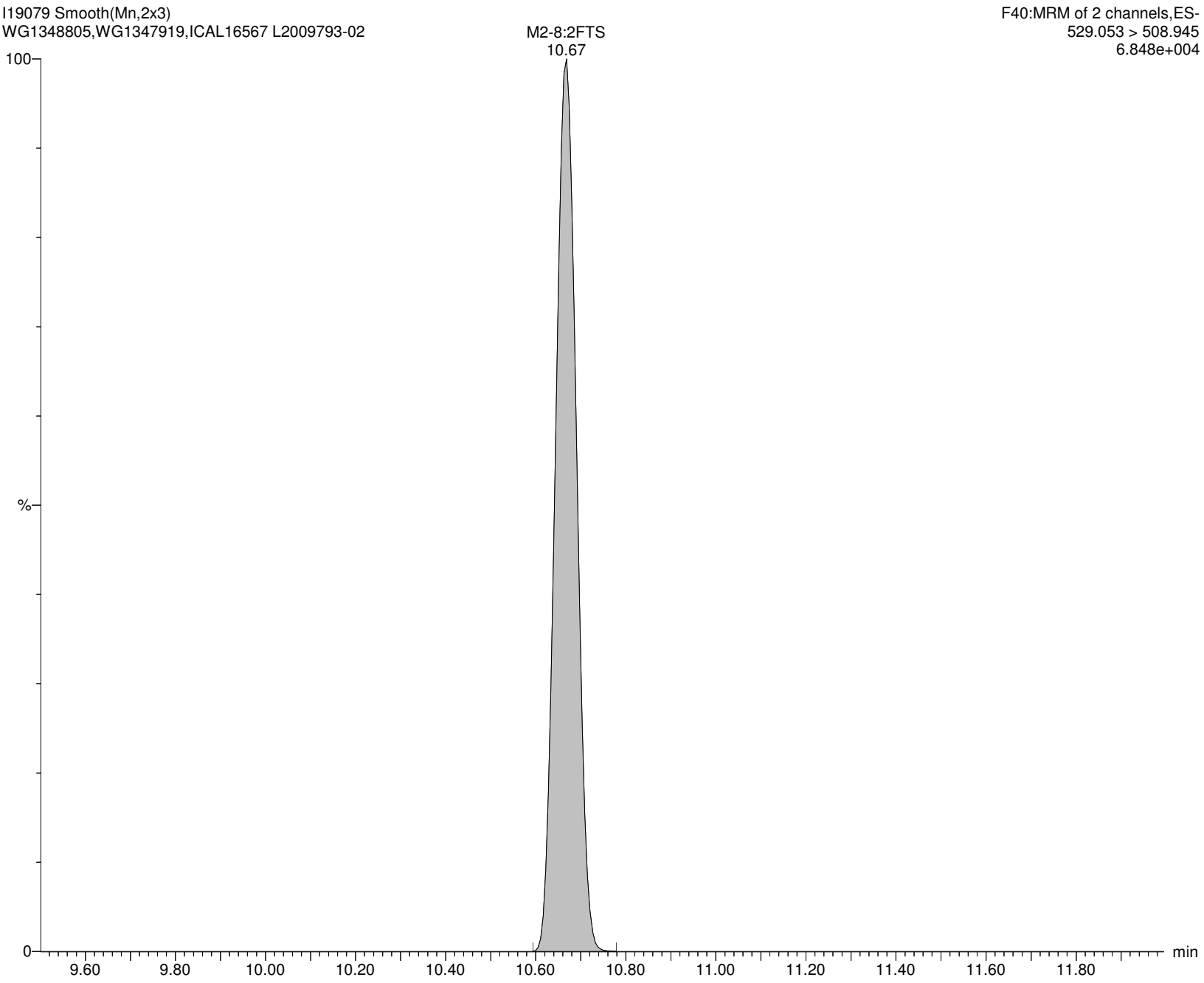

all concentration units in (ng/mL)

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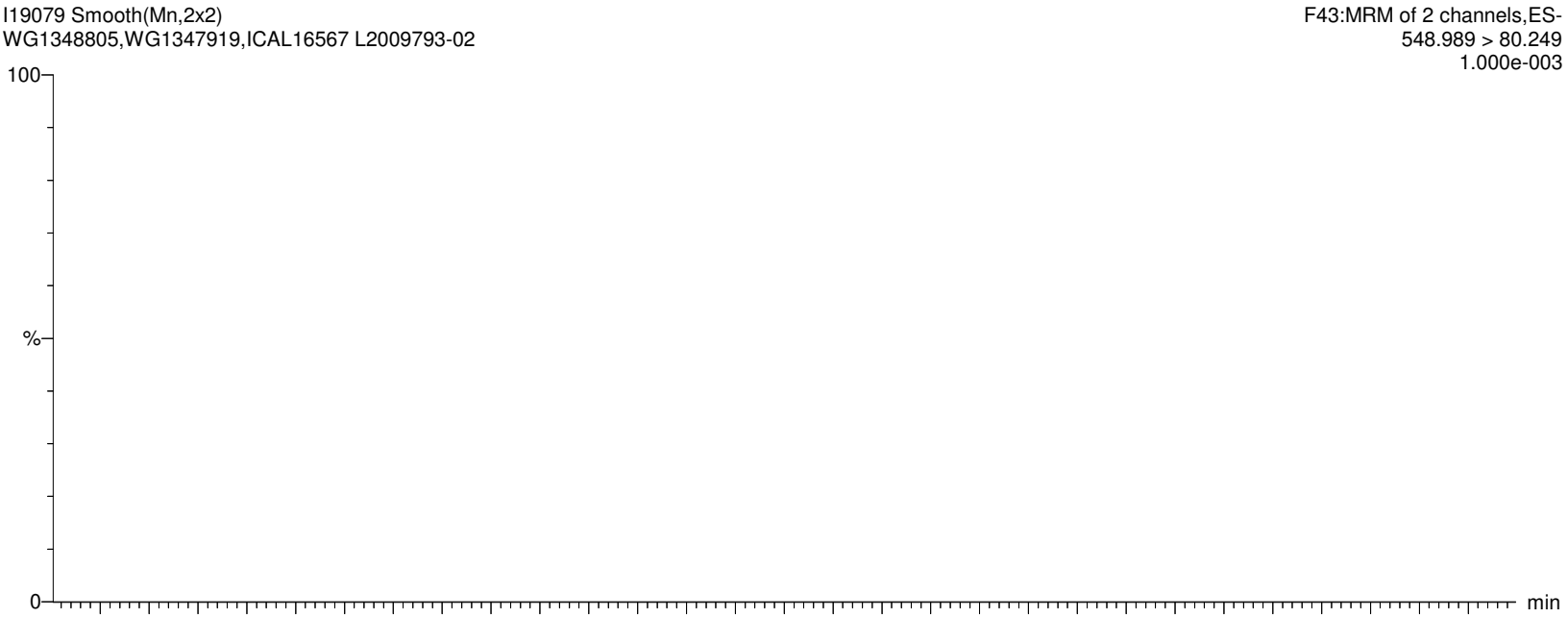

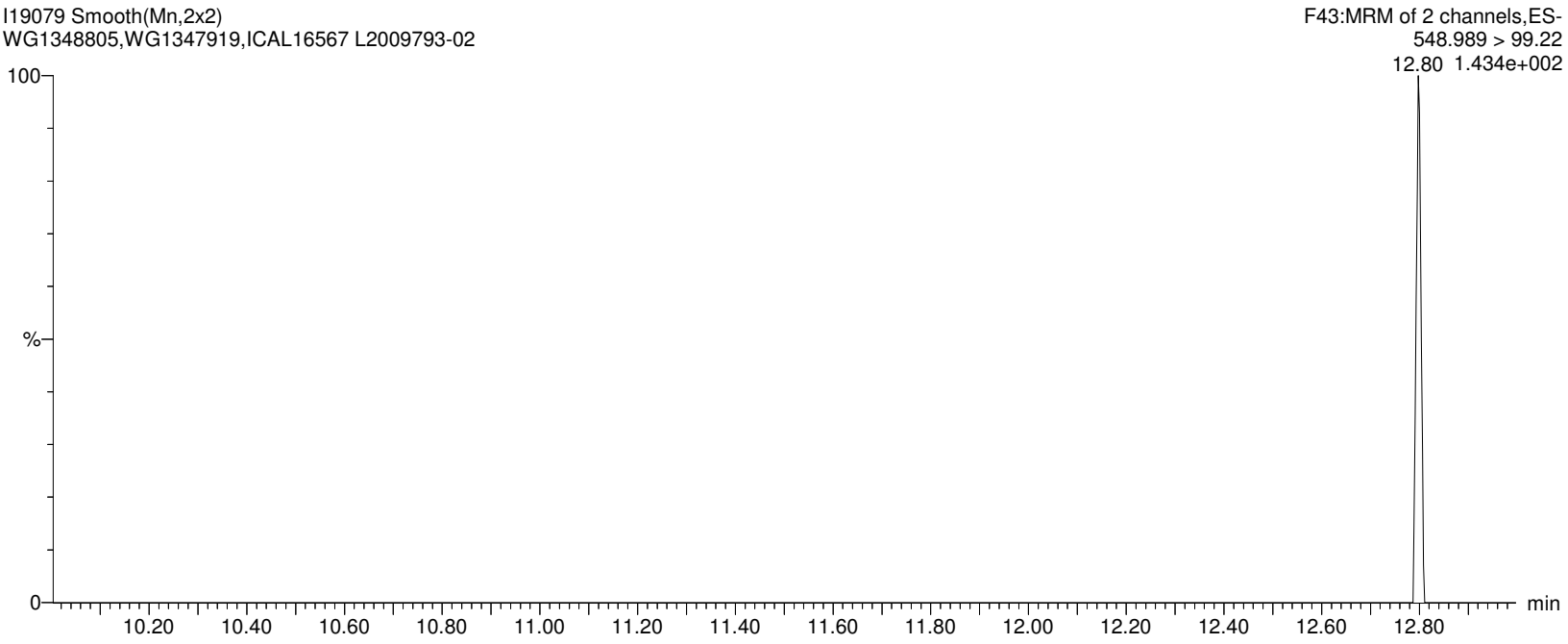

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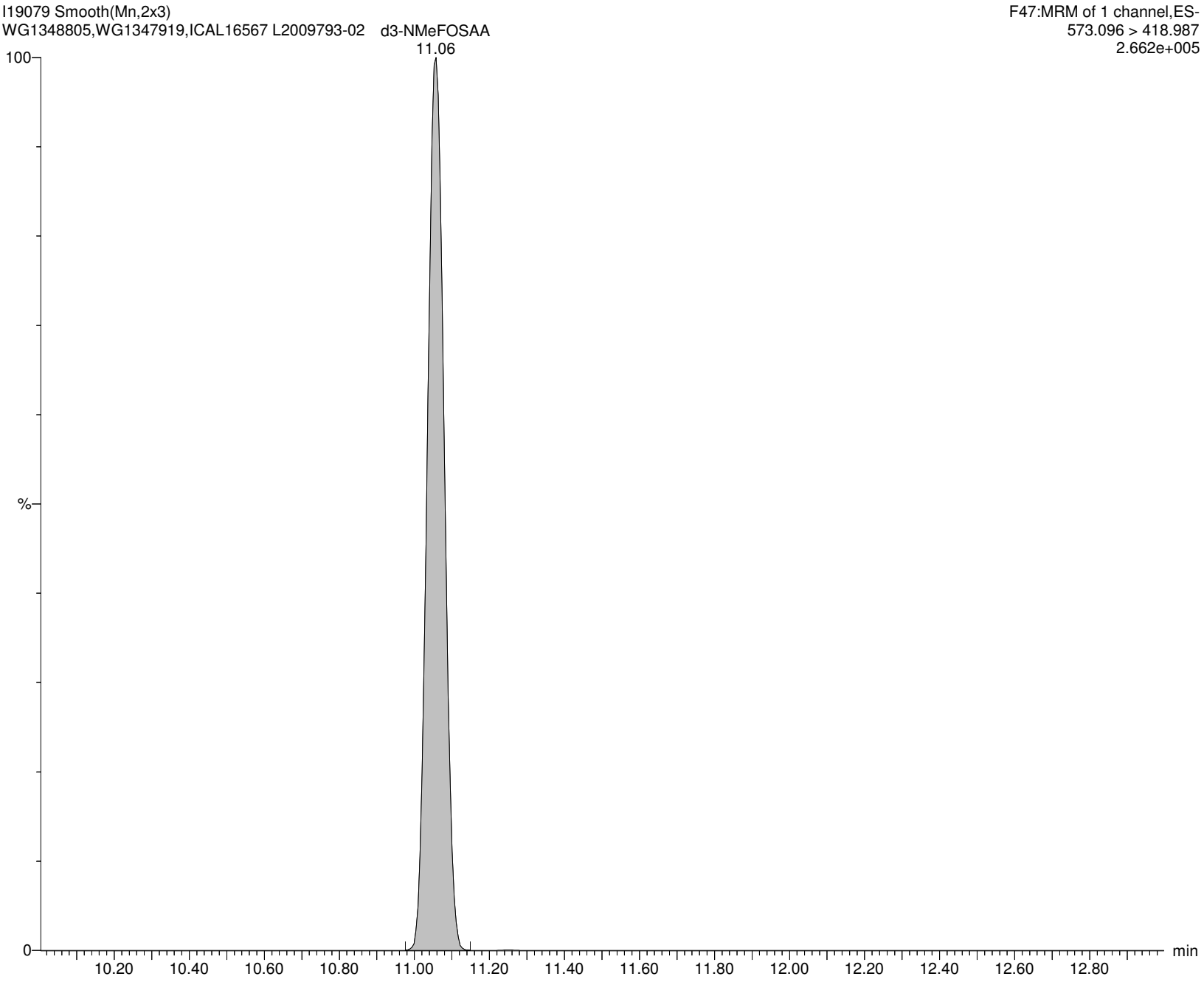
d3-NMeFOSAA



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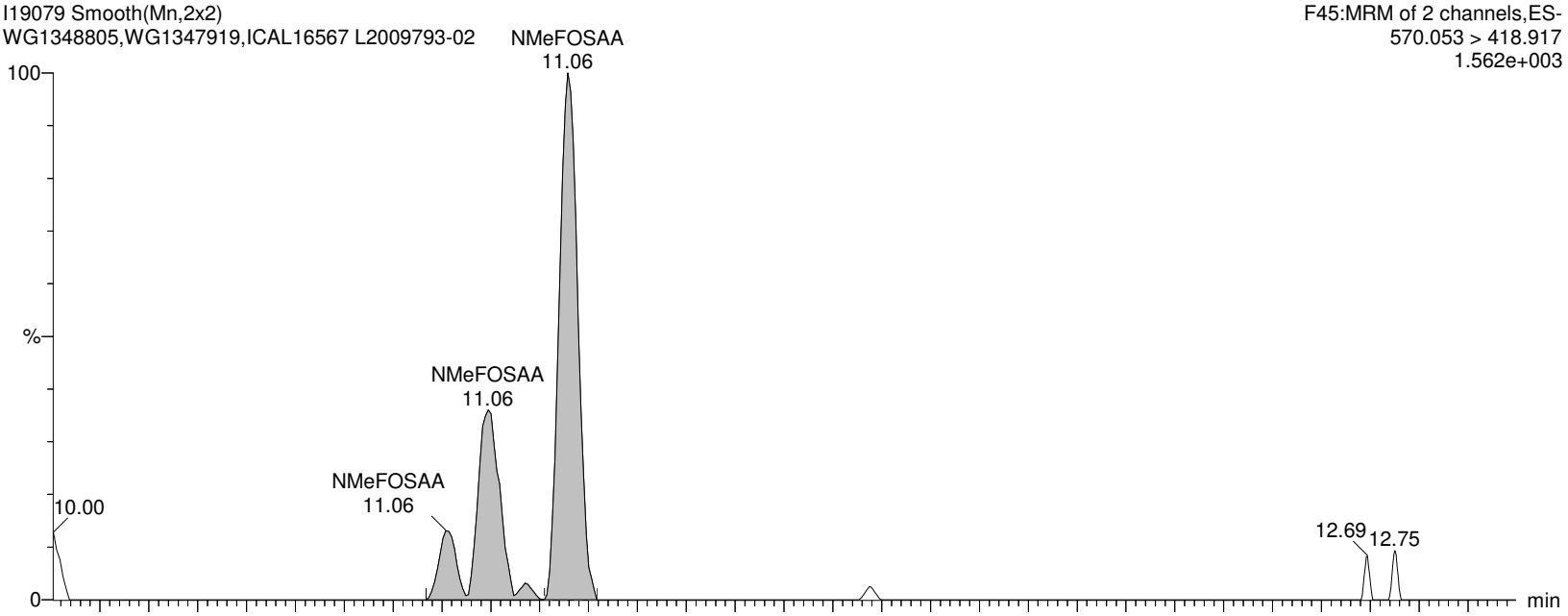

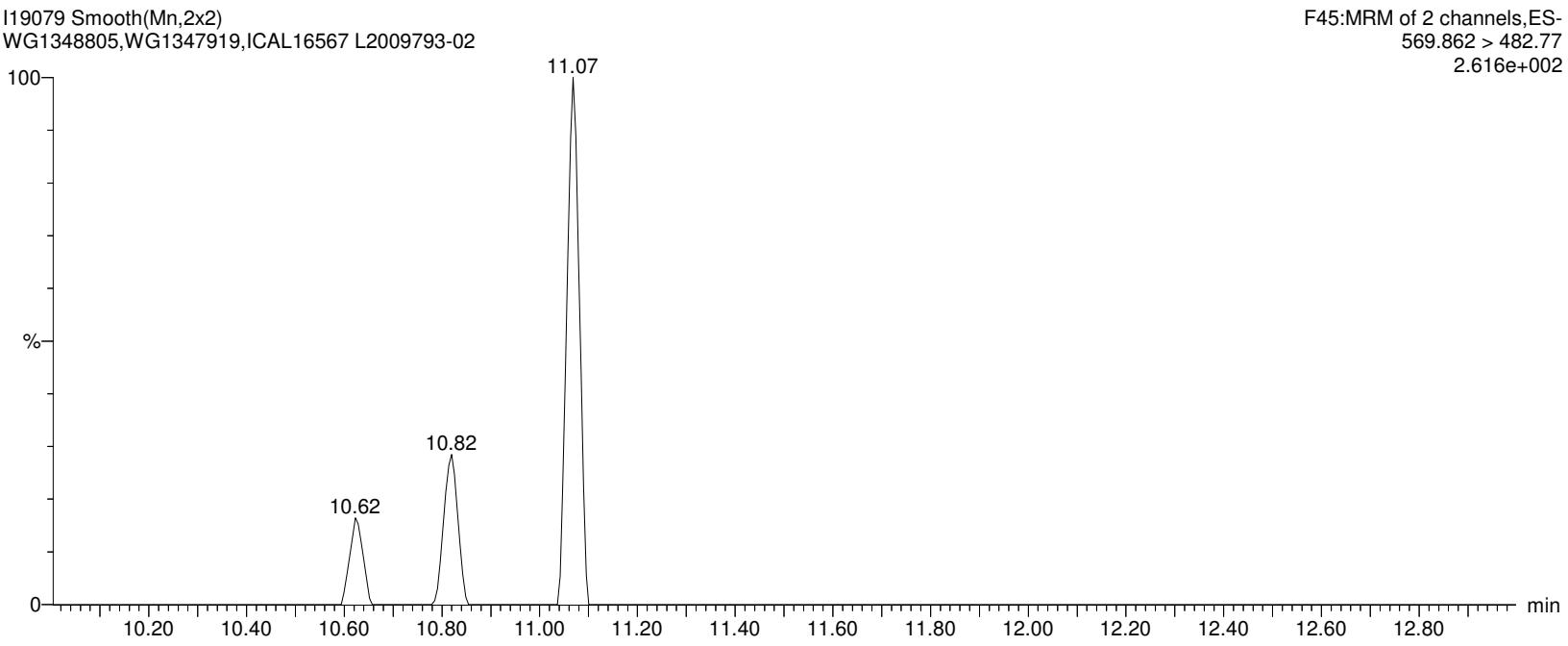

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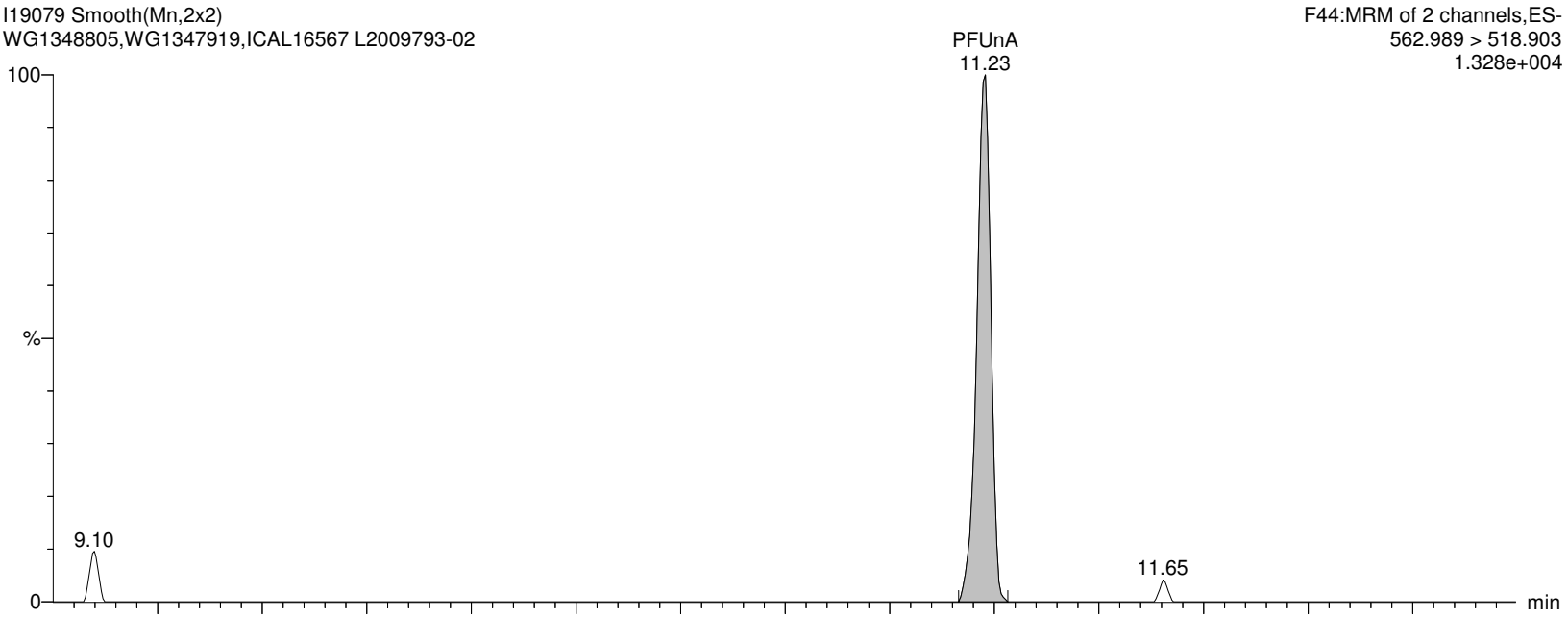
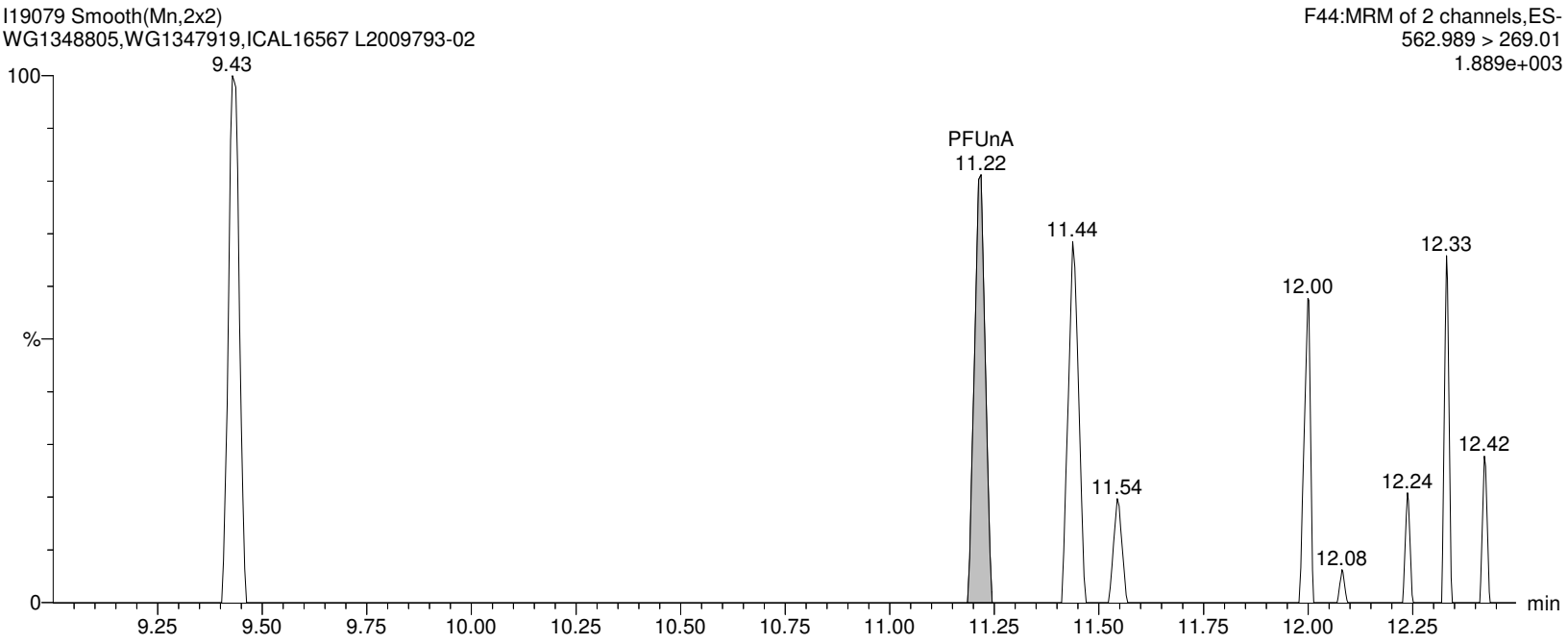
PFUnA



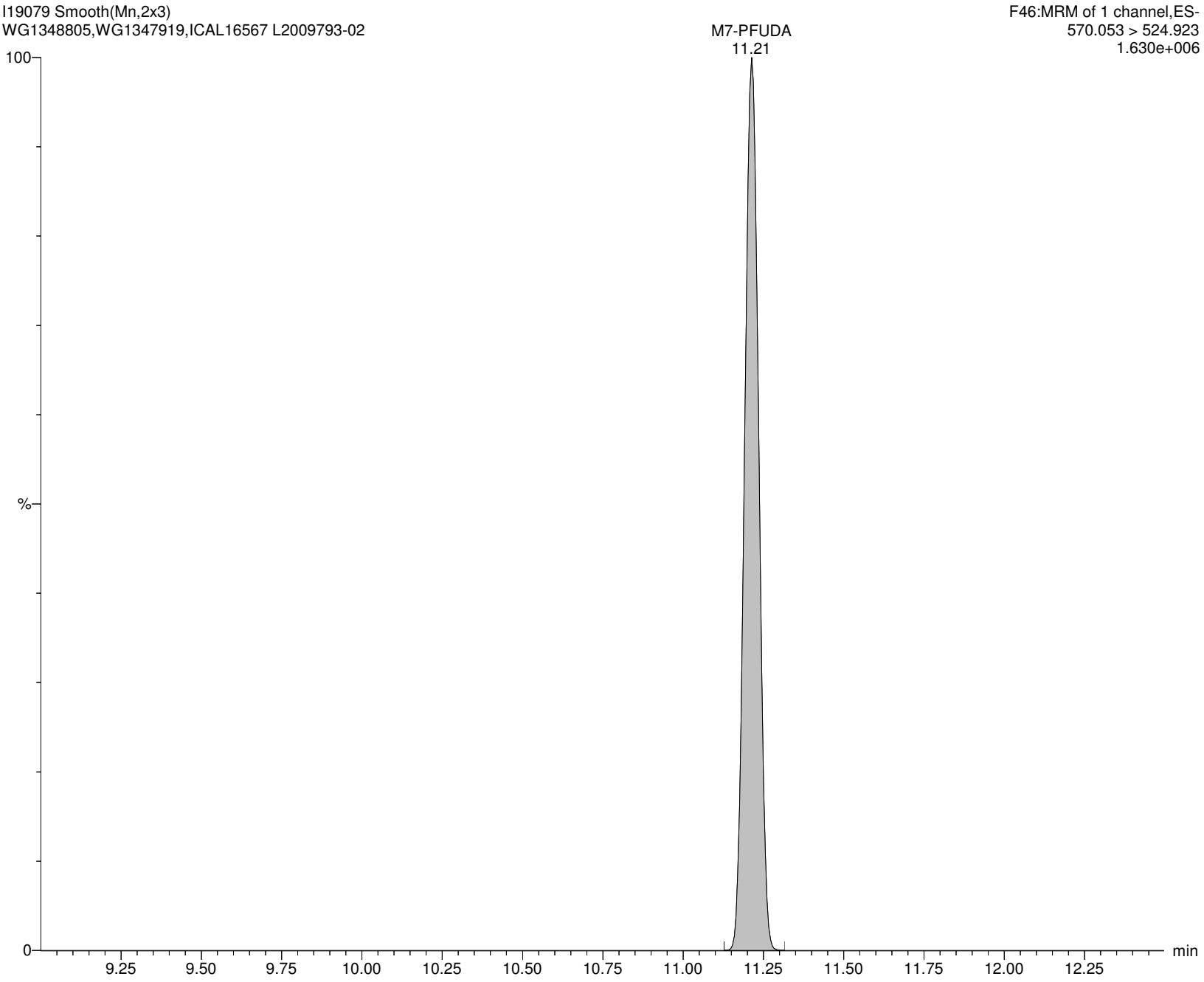


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:34:11 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:34:30 Eastern Daylight Time

Name: I19079
ID: L2009793-02
Date: 09-Mar-2020
Time: 15:40:07
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M7-PFUDA



all concentration units in (ng/mL)

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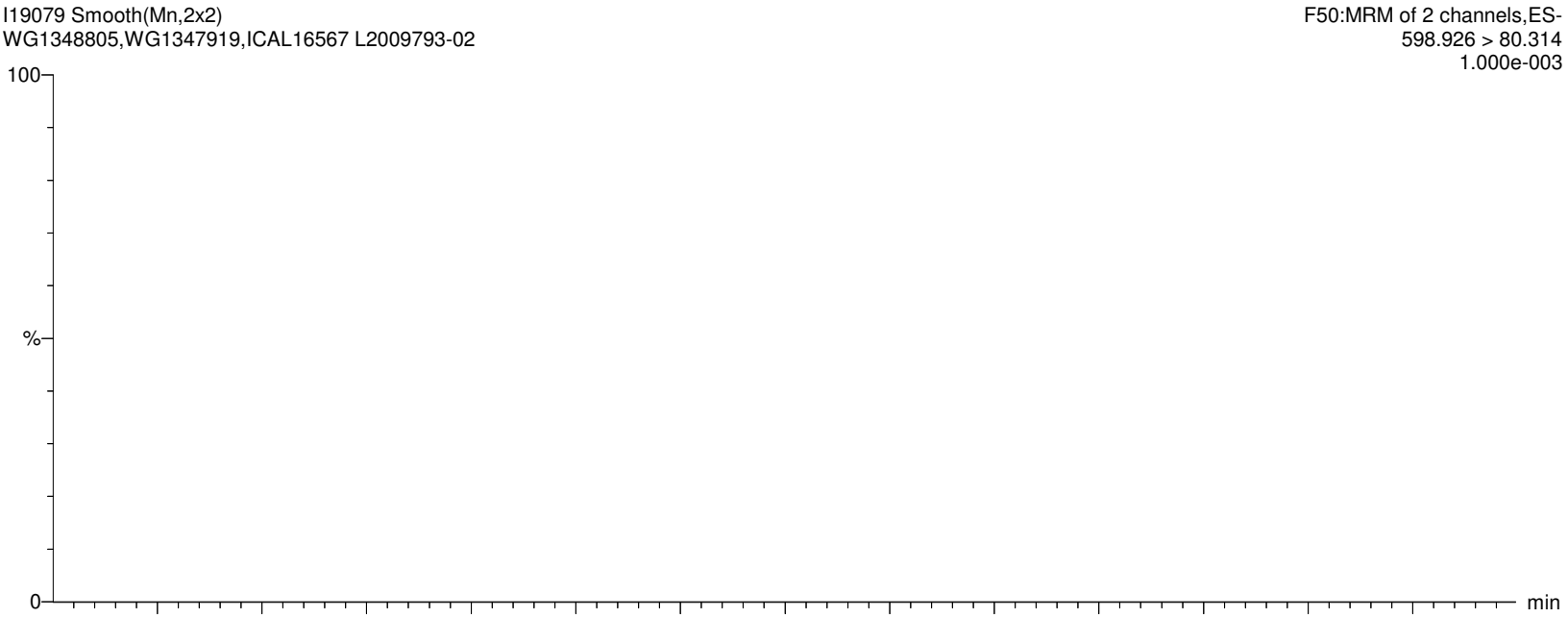

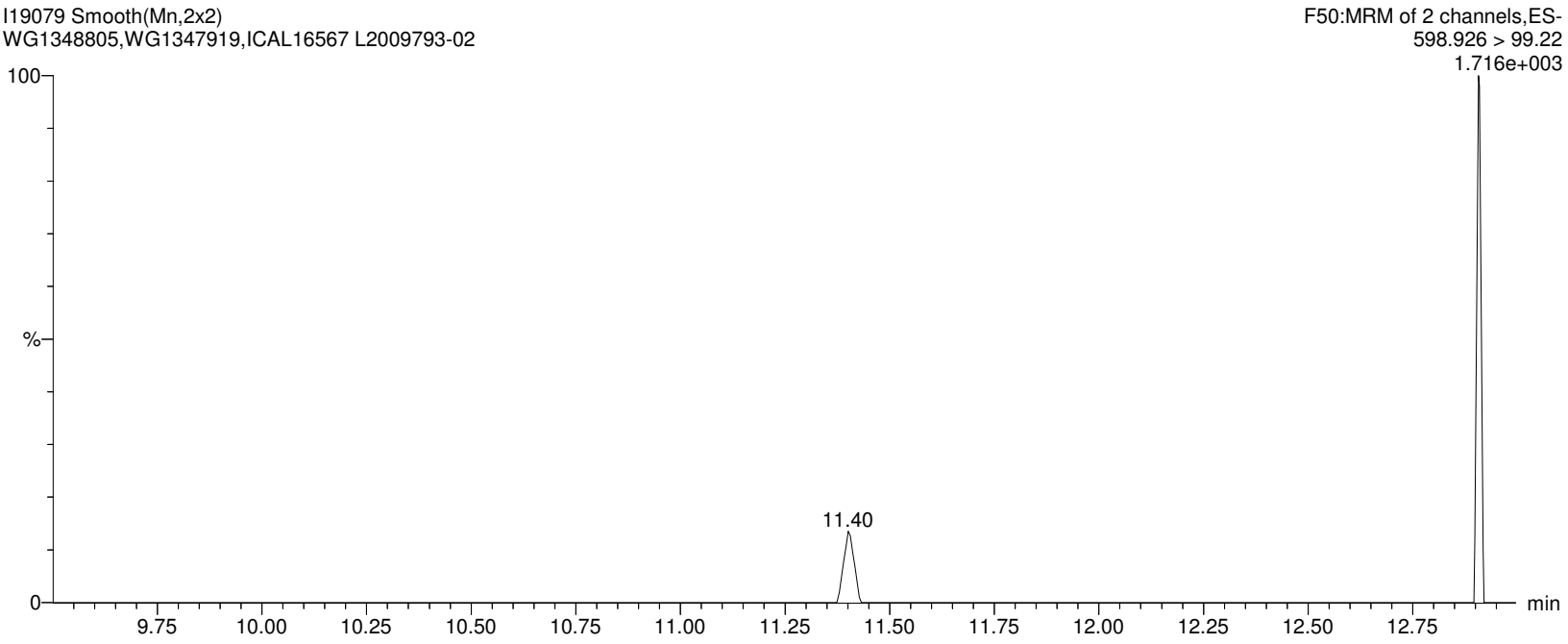

all concentration units in (ng/mL)

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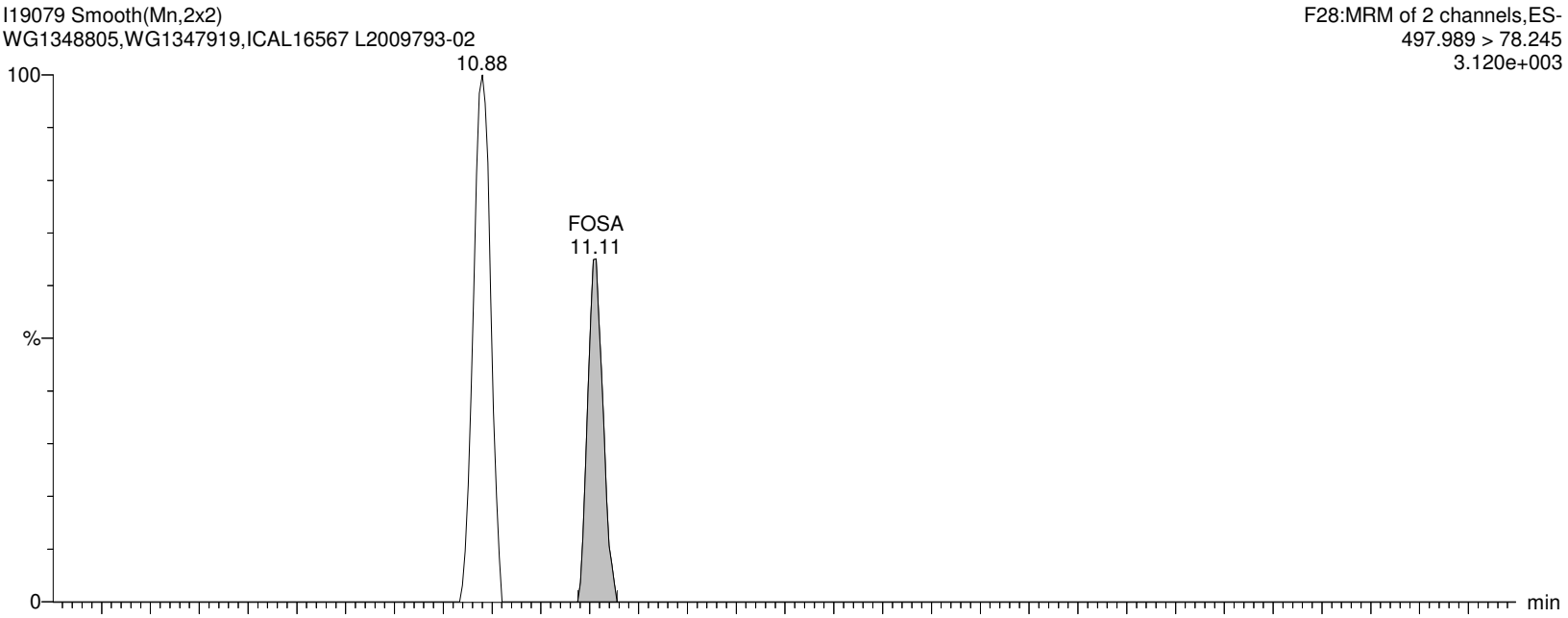
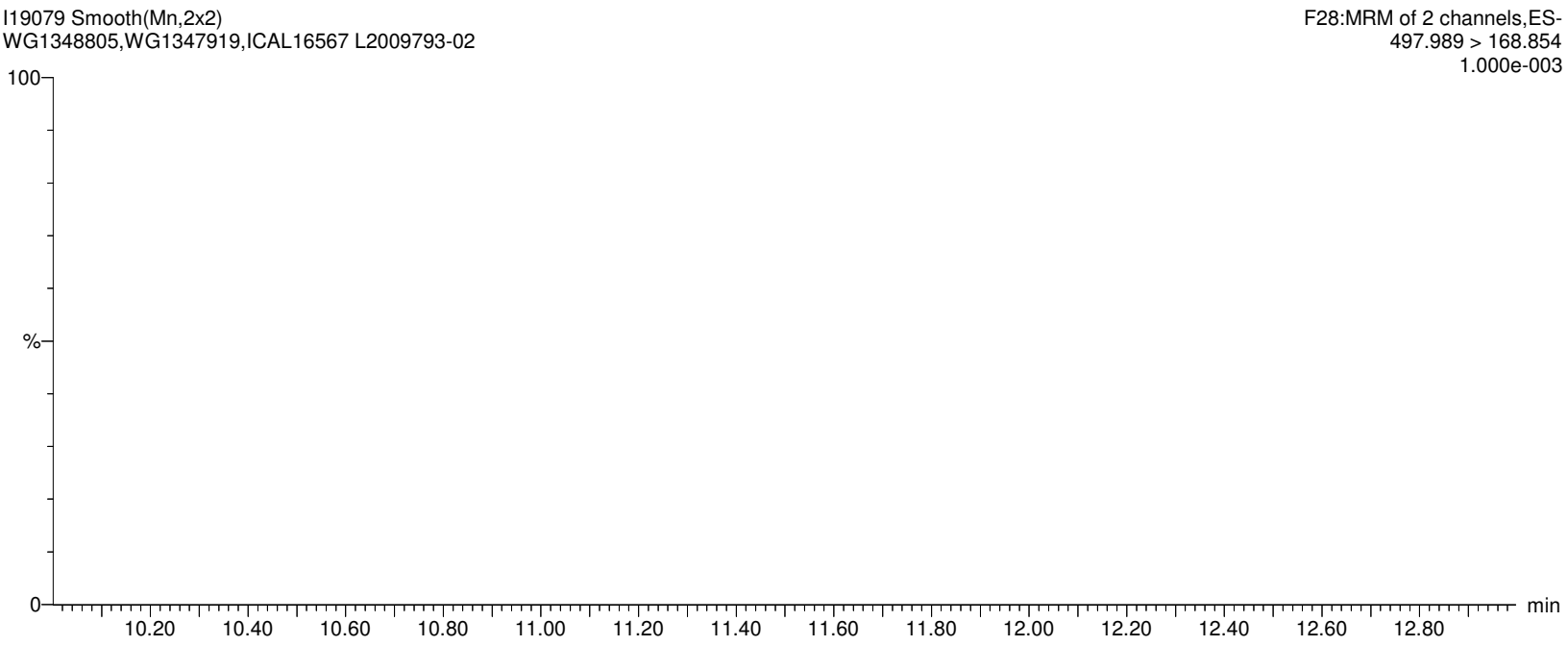
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

FOSA





all concentration units in (ng/mL)

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Vial: 1:C,2
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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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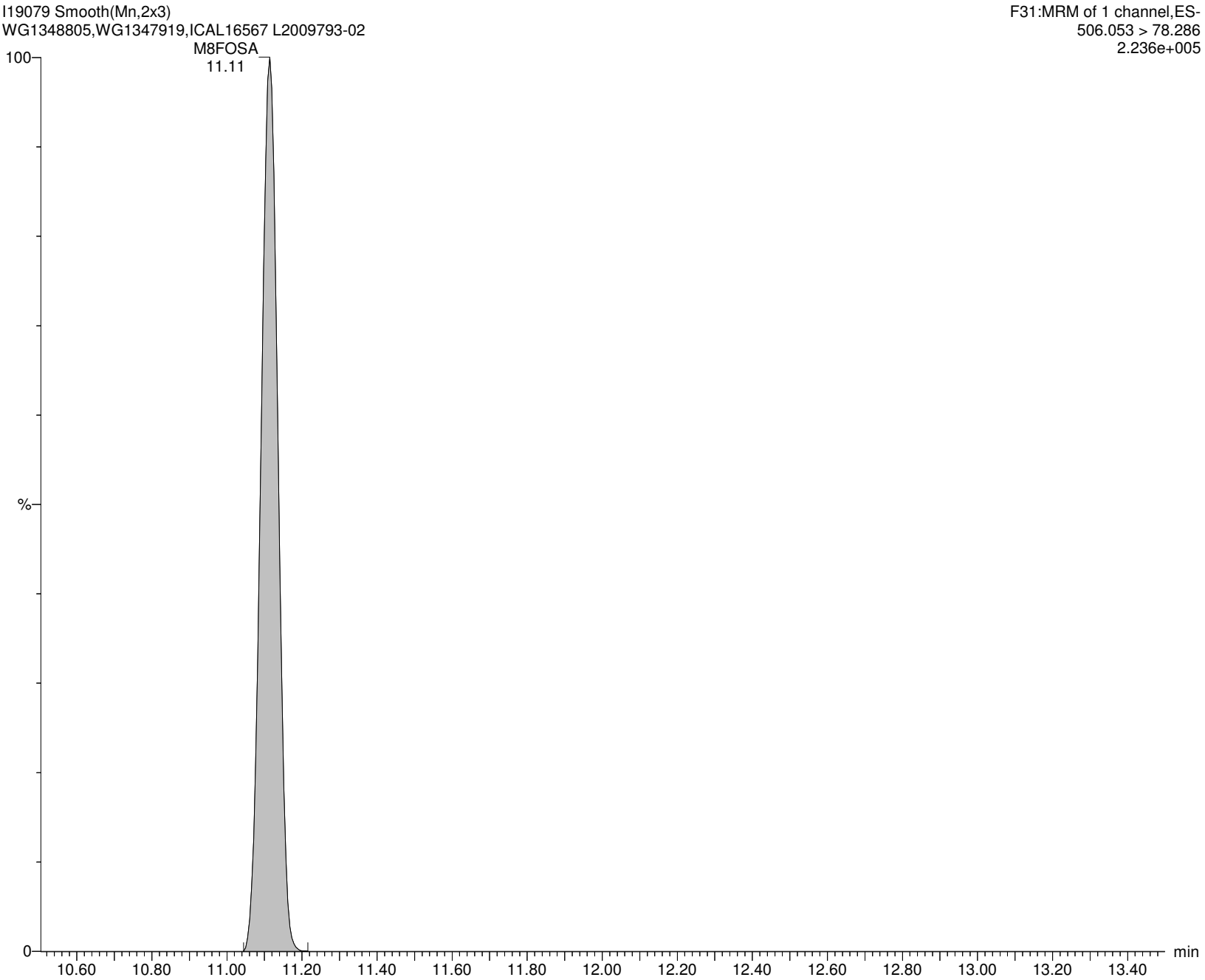

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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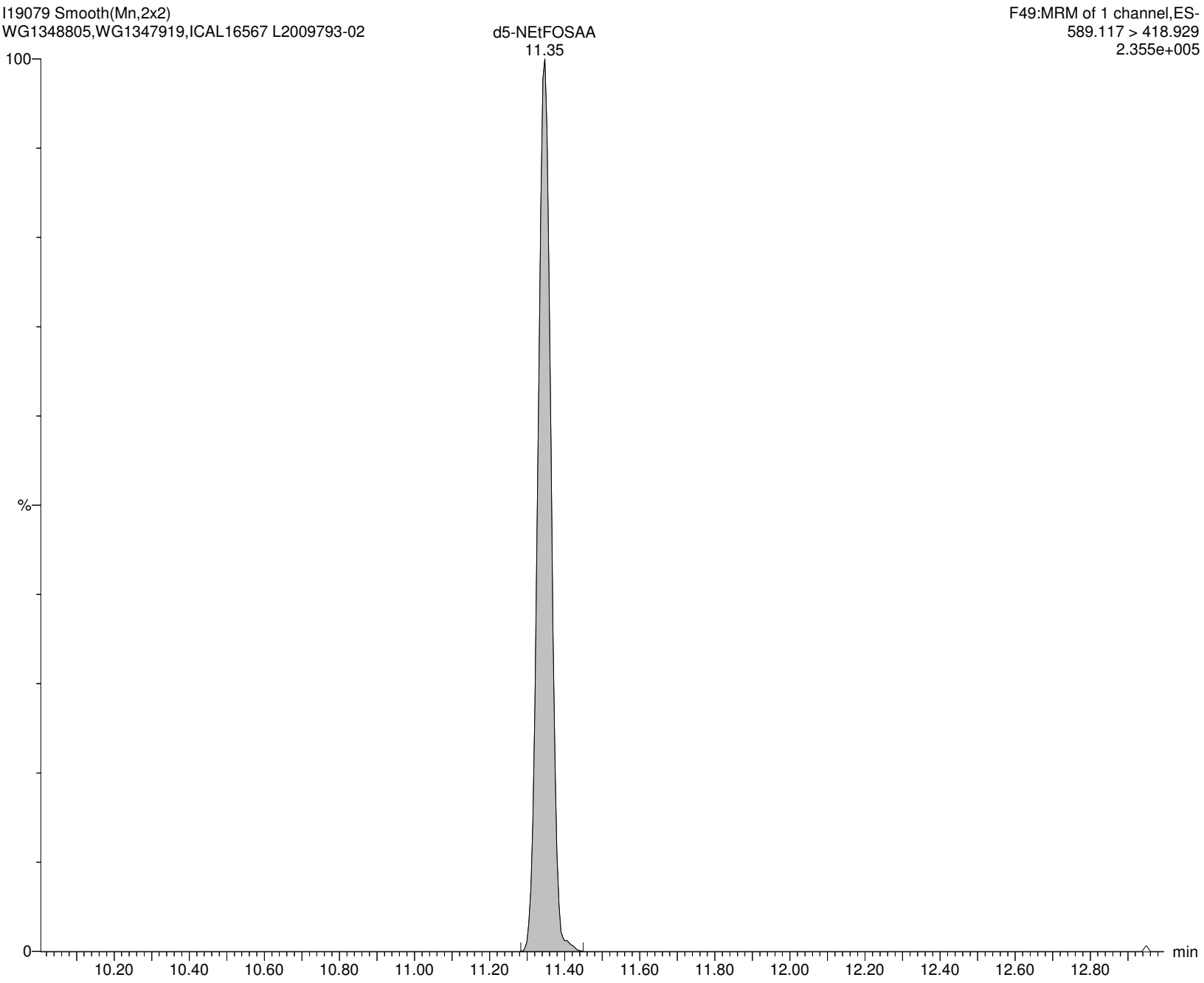

all concentration units in (ng/mL)

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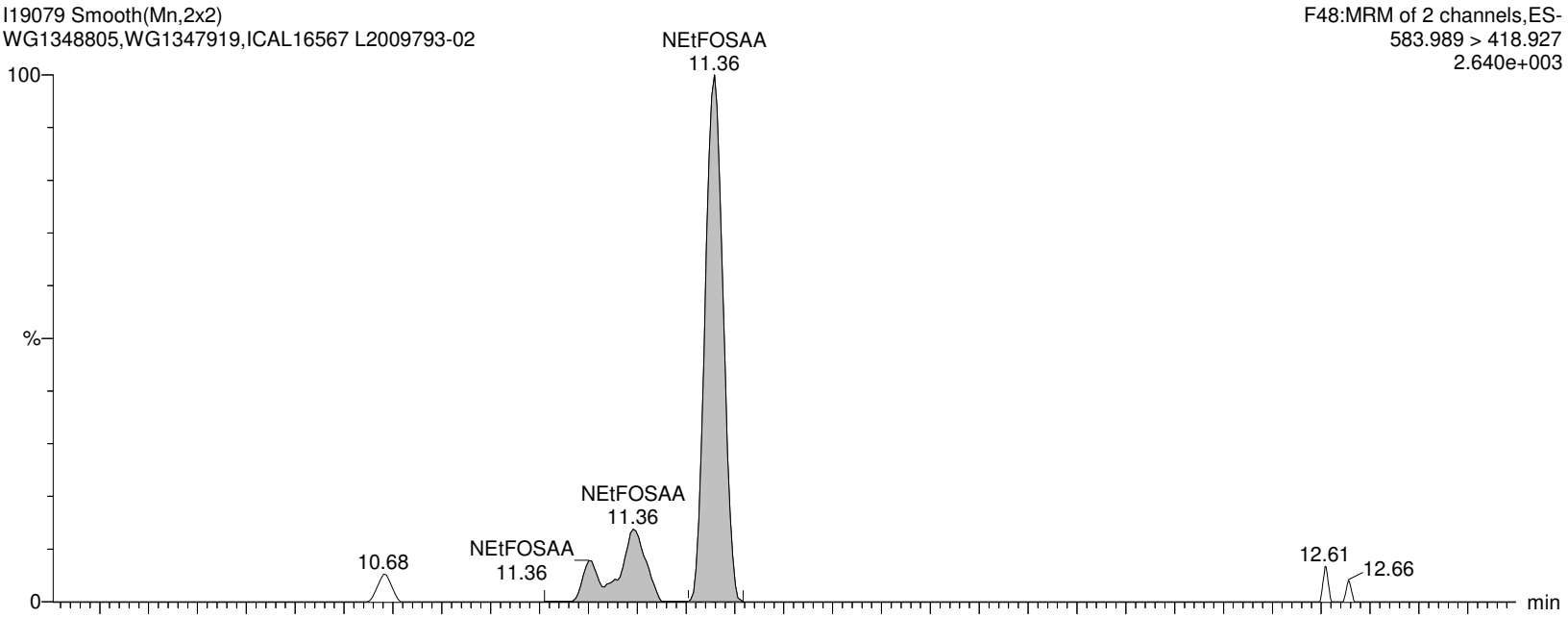

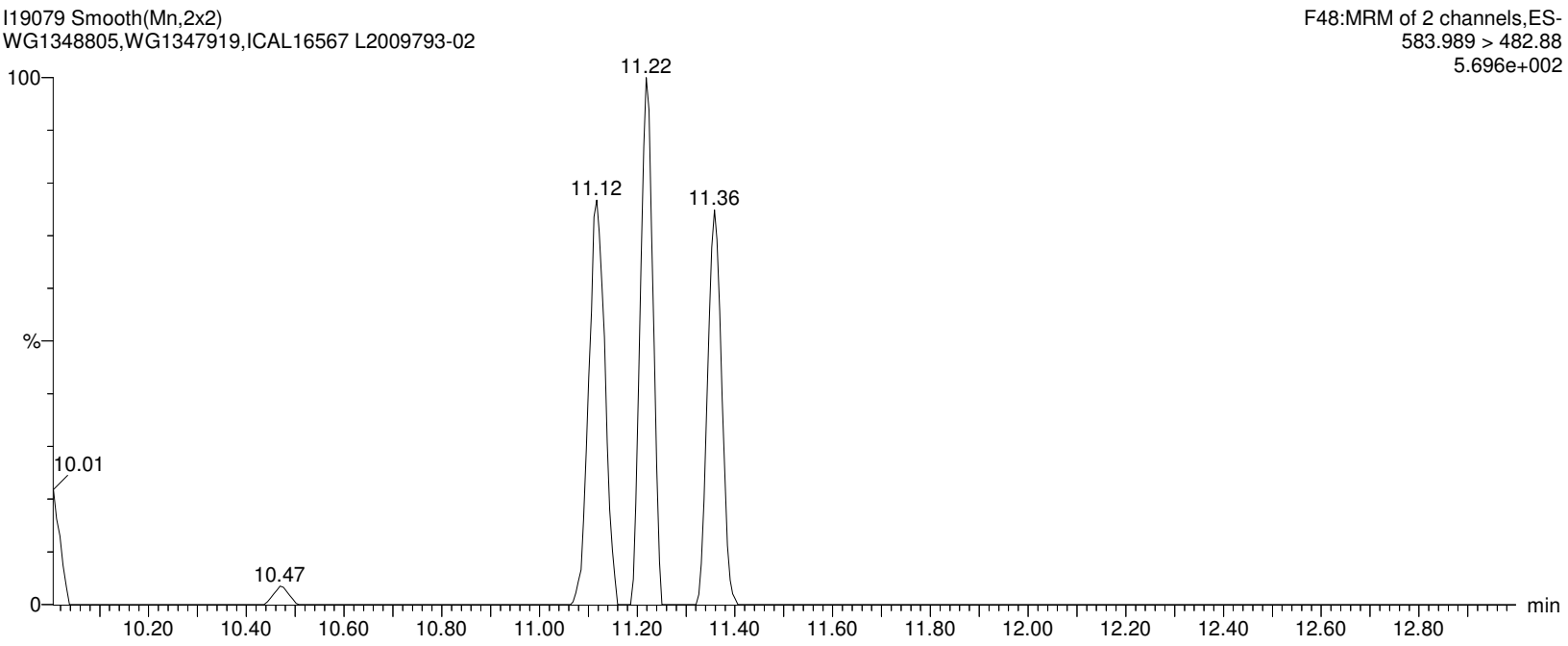

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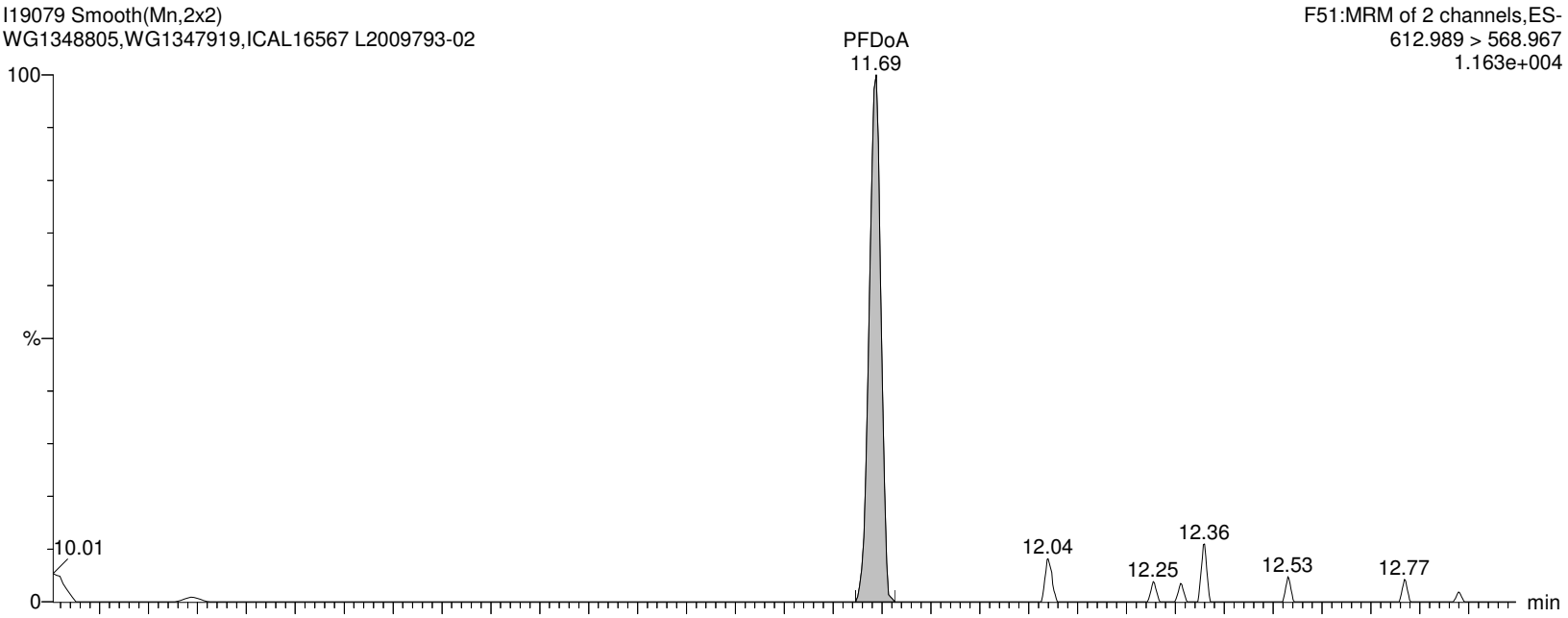

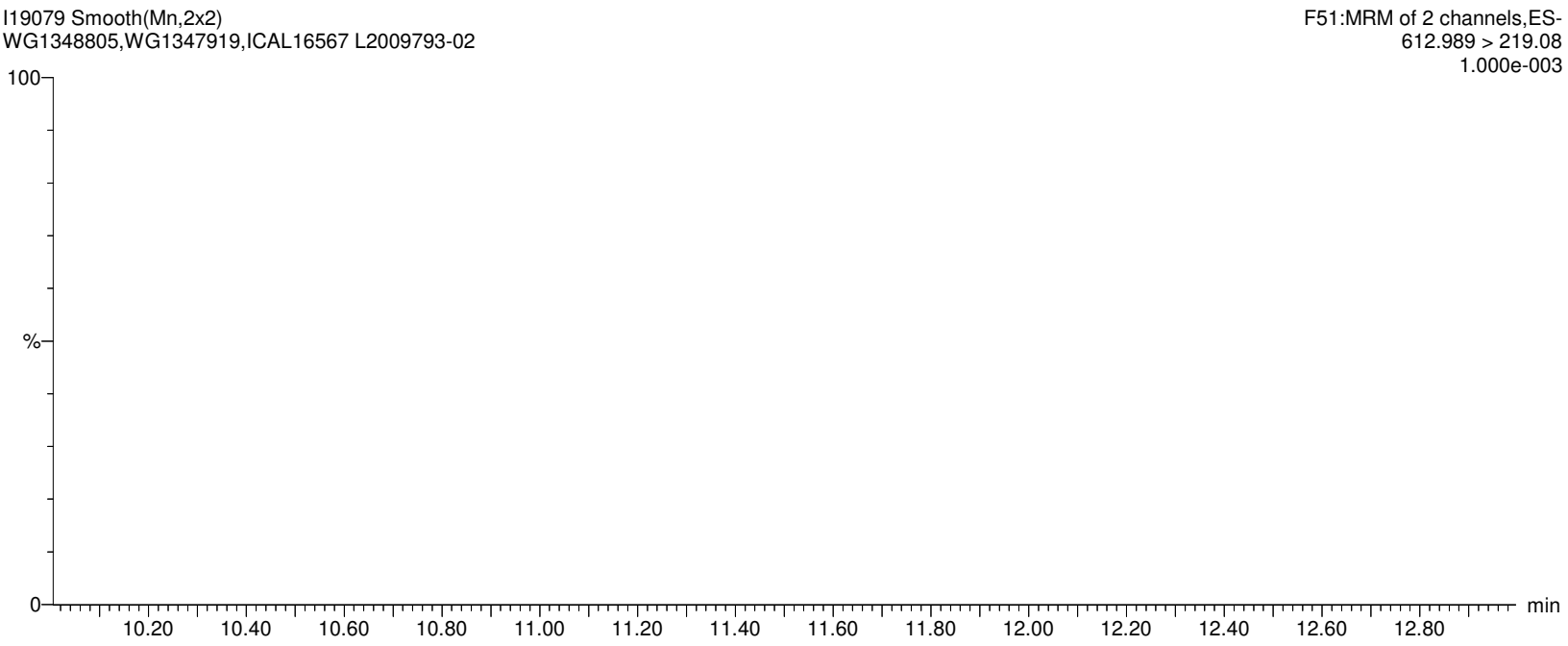

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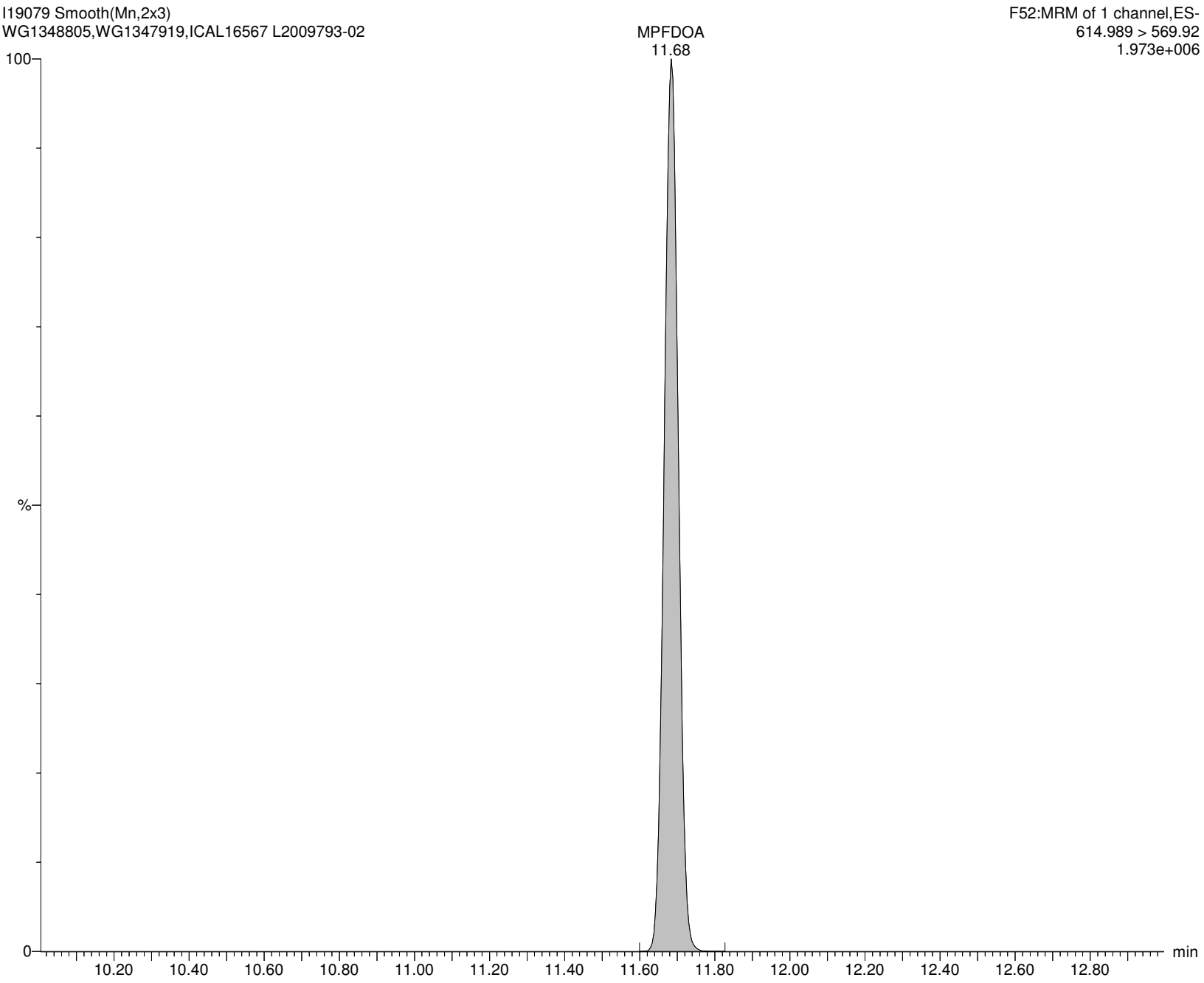

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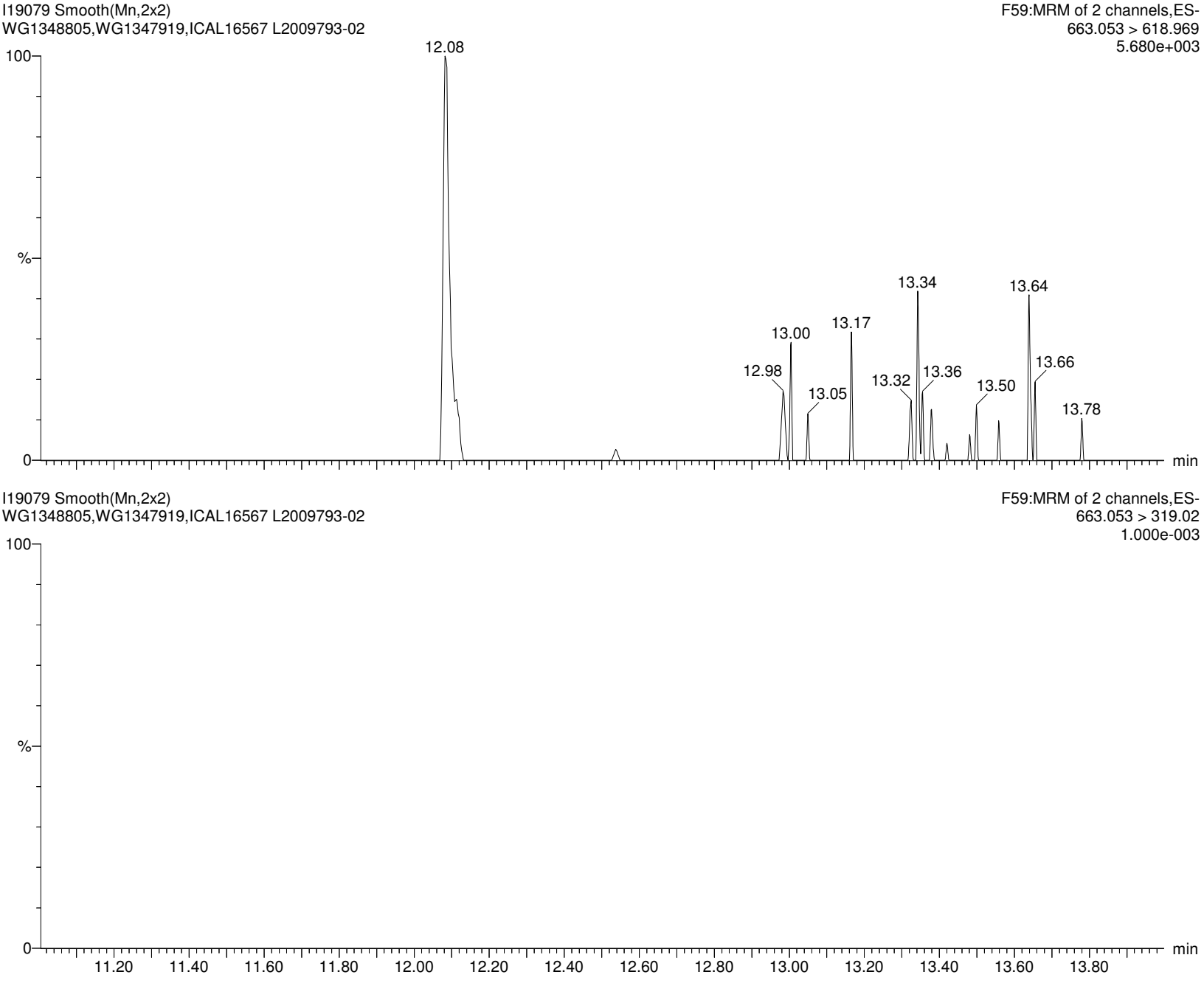

all concentration units in (ng/mL)

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Last Altered: Tuesday, March 17, 2020 11:34:11 Eastern Daylight Time
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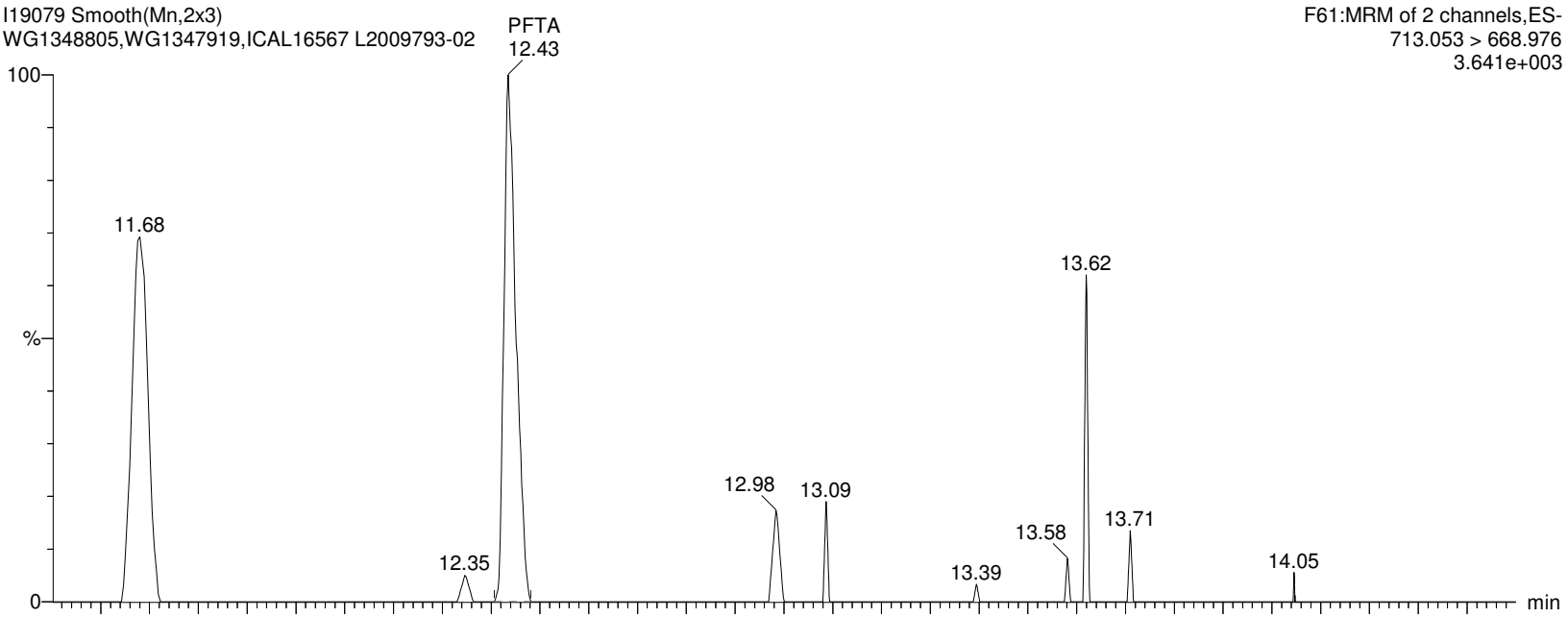

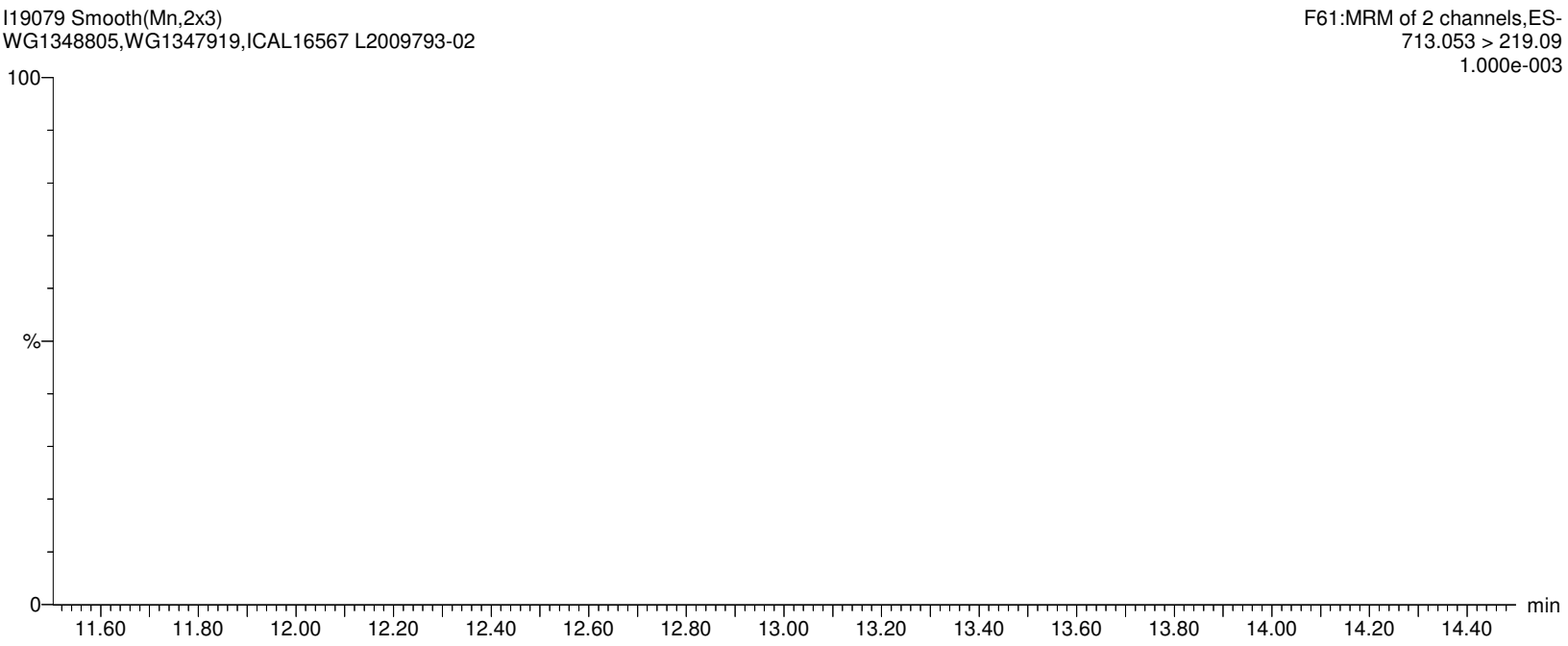

all concentration units in (ng/mL)

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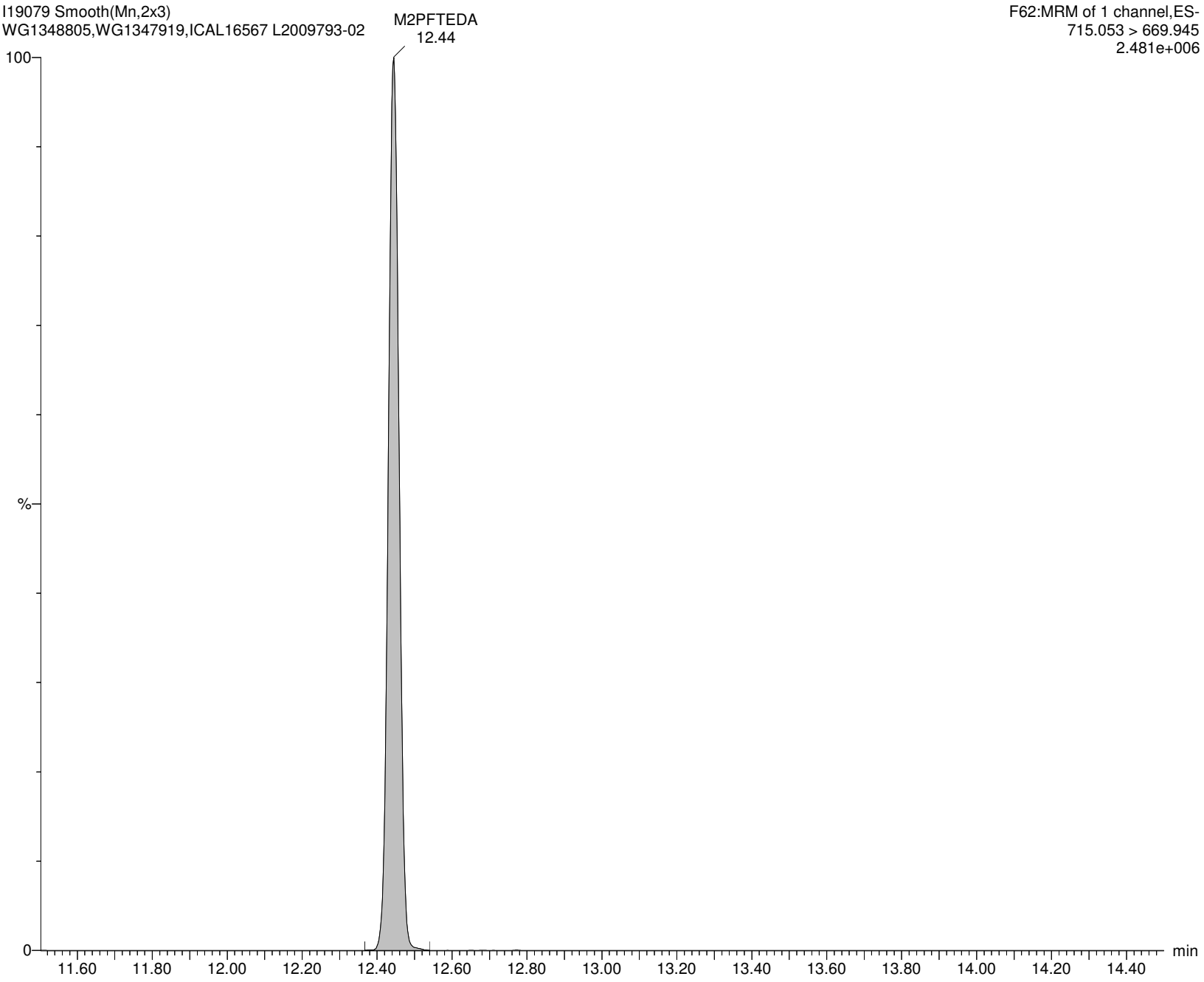

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

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ID: L2009793-03
Name: I19086
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.19	212.926 > 169.111	27	M2	0.008		na	
2	M3PFBA	INT STD	2.21	215.926 > 172.122	40588		10.322		na	103.2
3	MPFBA	INT STD	2.21	216.926 > 172.137	47190		10.147		na	101.5
4	PFPeA	2706-90-3	5.15	262.926 > 219.002	528	m4	0.106		na	
5	M5PFPEA	INT STD	5.17	267.989 > 223.081	71824		11.640		na	116.4
6	PFBS	375-73-5		298.926 > 79.923			ND		YES	
7	M3PFBS	INT STD	5.83	301.989 > 80.254	12615		10.351		na	103.5
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	7.01	329.117 > 309.079	5686		8.955		na	89.6
10	PFHxA	307-24-4	7.10	312.989 > 269.028	655	m4	0.098		YES	
11	M5PFHxA	INT STD	7.09	317.989 > 273.045	80785		9.283		na	92.8
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9		362.926 > 319.014			ND		YES	
14	M4PFHpA	INT STD	8.36	366.926 > 321.979	104622		10.362		na	103.6
15	br-PFHxS	355-46-4		398.904 > 79.915			ND		YES	
16	L-PFHxS	355-46-4		398.904 > 79.915			ND		YES	
17	PFHxS	355-46-4		398.904 > 79.915	0		ND		na	
18	M3PFHxS	INT STD	8.52	401.926 > 80.317	13106		12.004		na	120.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1		412.989 > 368.9			ND		YES	
21	M2PFOA	INT STD	9.30	415.032 > 369.968	106296		12.634		na	126.3
22	PFOA	335-67-1		412.989 > 368.9	0		ND		na	
23	M8PFOA	INT STD	9.30	420.989 > 375.979	100767		9.941		na	99.4
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.26	428.989 > 408.917	5761		14.582		na	145.8
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1		462.989 > 418.931			ND		YES	
28	M9PFNA	INT STD	10.05	472.053 > 426.947	100423		10.134		na	101.3
29	br-PFOS	1763-23-1	9.91	498.968 > 79.918	24		0.029	3.39	NO	
30	L-PFOS	1763-23-1	10.09	498.968 > 79.918	34		0.055	1.63	NO	
31	PFOS	1763-23-1		498.968 > 79.918	59		0.084		na	
32	M4PFOS	INT STD	10.09	503.032 > 80.306	9500		11.184		na	111.8
33	M8PFOS	INT STD	10.09	507.053 > 80.294	11584		10.500		na	105.0
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.67	515.053 > 469.934	94654		14.309		na	143.1
36	M6PFDA	INT STD	10.67	519.053 > 473.931	95986		9.217		na	92.2
37	8:2FTS	39108-34-4		527.032 > 507.079			ND		YES	
38	M2-8:2FTS	INT STD	10.66	529.053 > 508.945	2677		11.207		na	112.1
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: L2009793-03
Name: I19086
Date: 09-Mar-2020
Time: 17:36:11
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Instrument: XEVO-TQSmicro#QEA0276
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Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.05	573.096 > 418.987	13877		10.059		na	100.6
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.21	570.053 > 524.923	95332		10.417		na	104.2
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	24346		5.834		na	58.3
47	d5-NEtFOSAA	INT STD	11.34	589.117 > 418.929	9634		9.576		na	95.8
48	NEtFOSAA	2991-50-6	11.35	583.989 > 418.927	14	M2	0.018		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.68	614.989 > 569.92	95514		9.708		na	97.1
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.44	715.053 > 669.945	96359		8.690		na	86.9

all concentration units in (ng/mL)

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Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
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ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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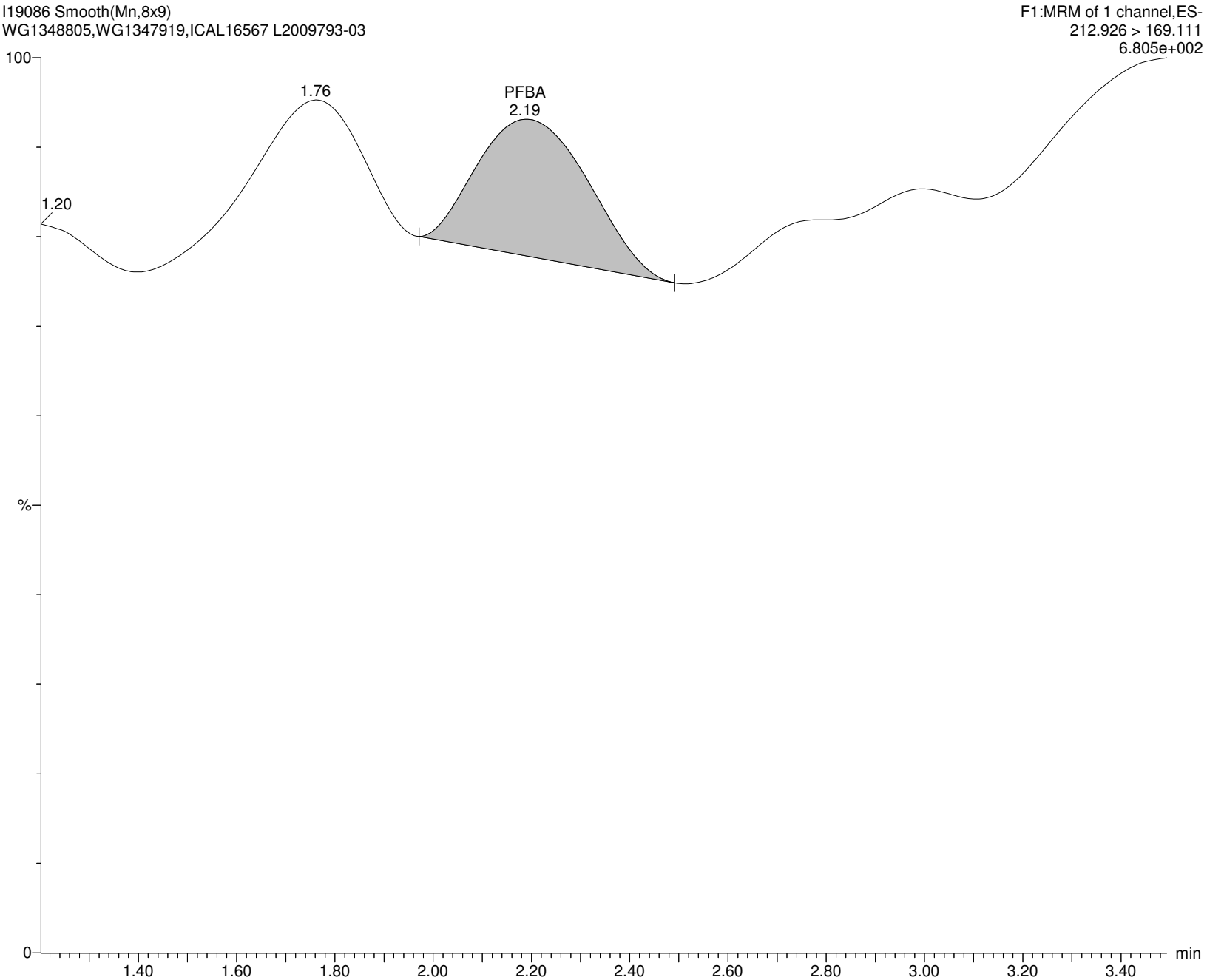
PFBA



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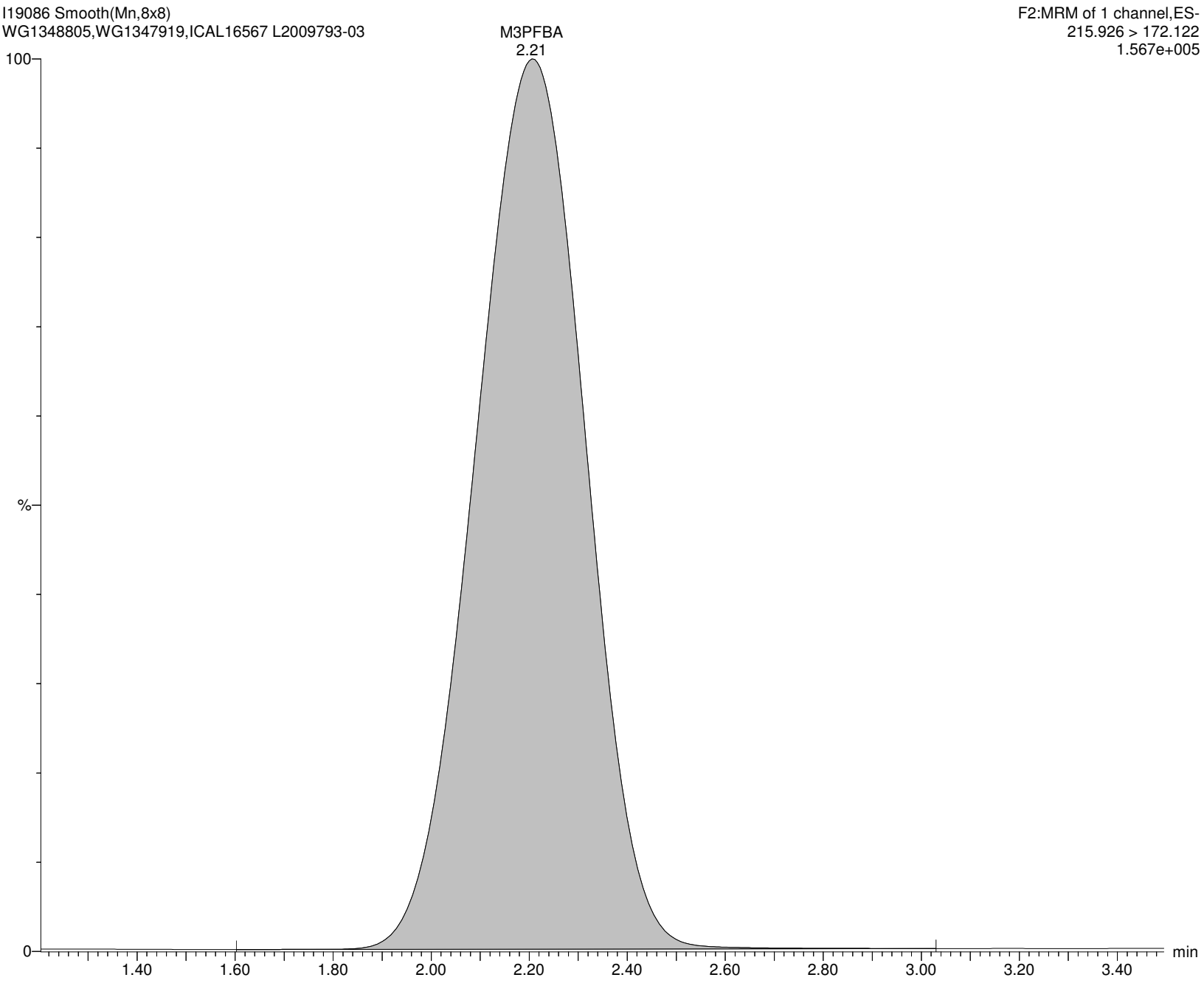
M3PFBA



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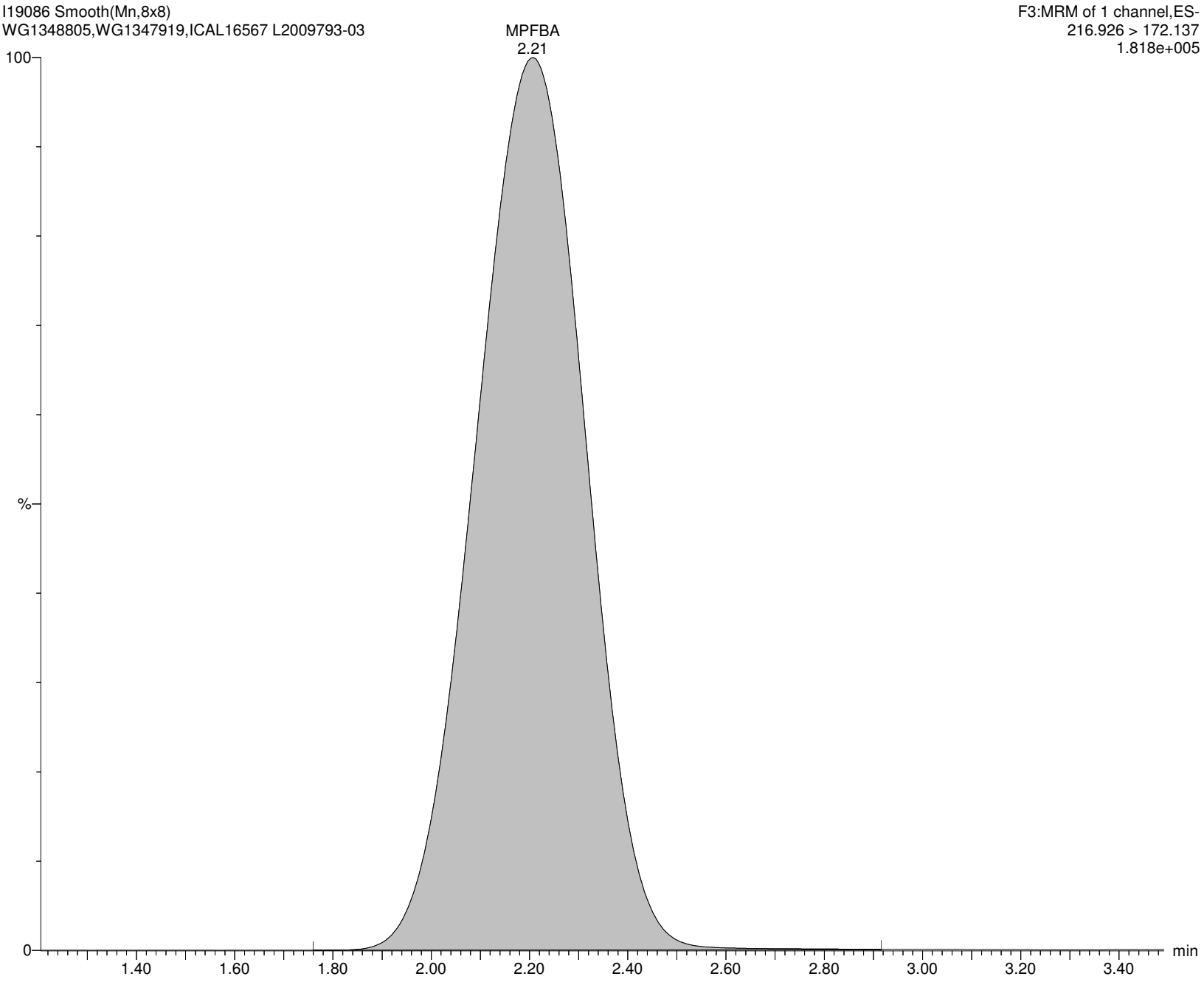

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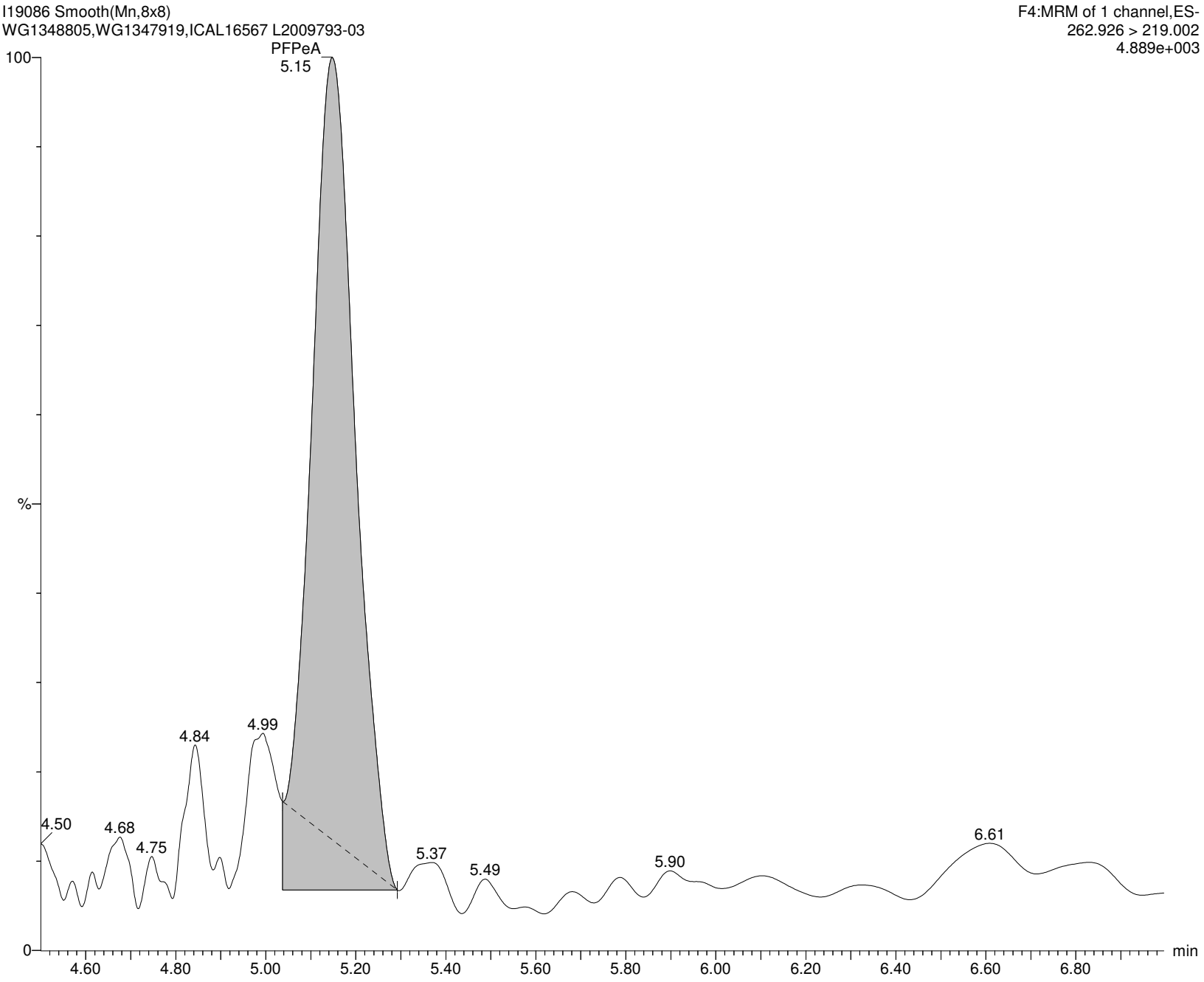

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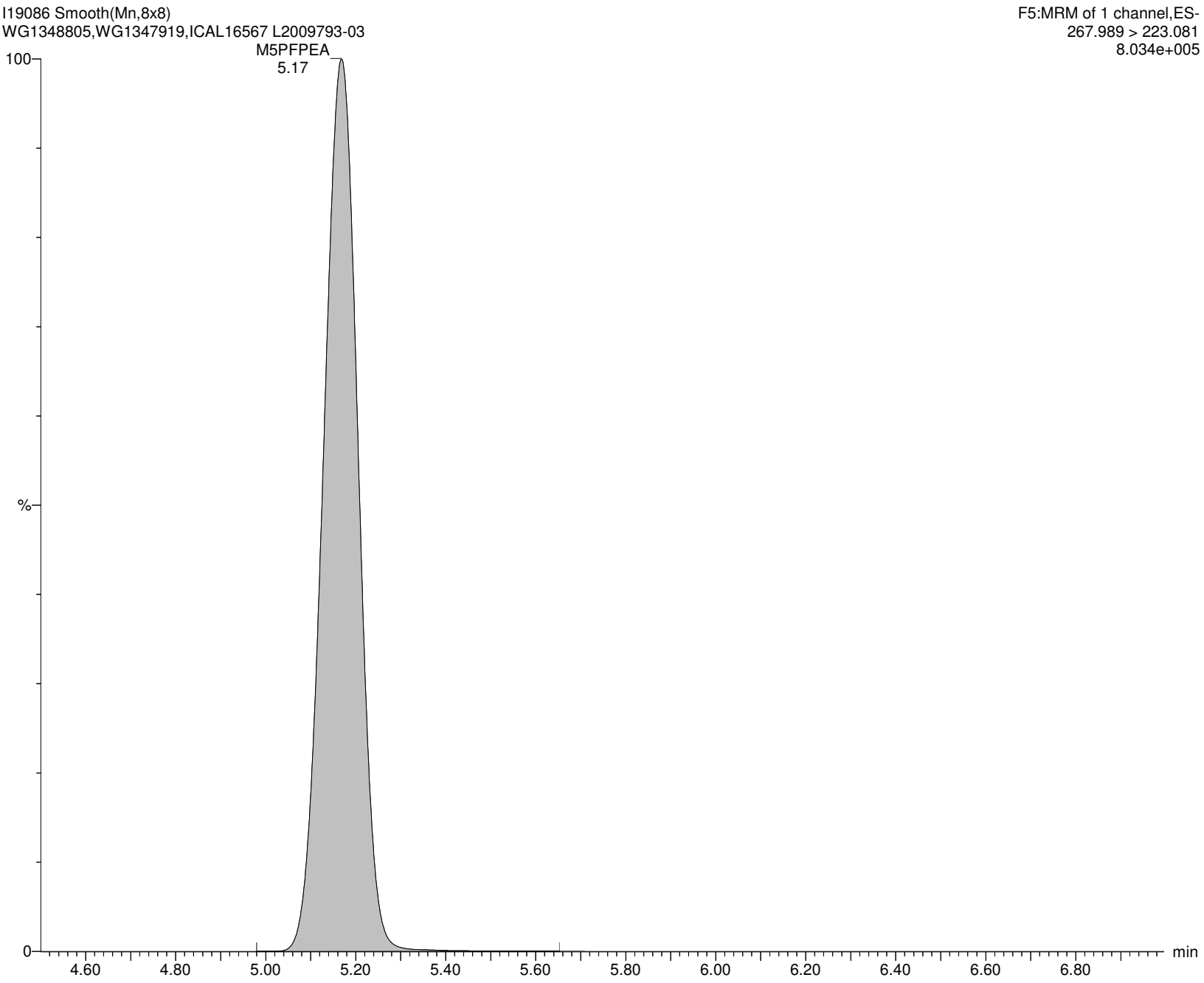

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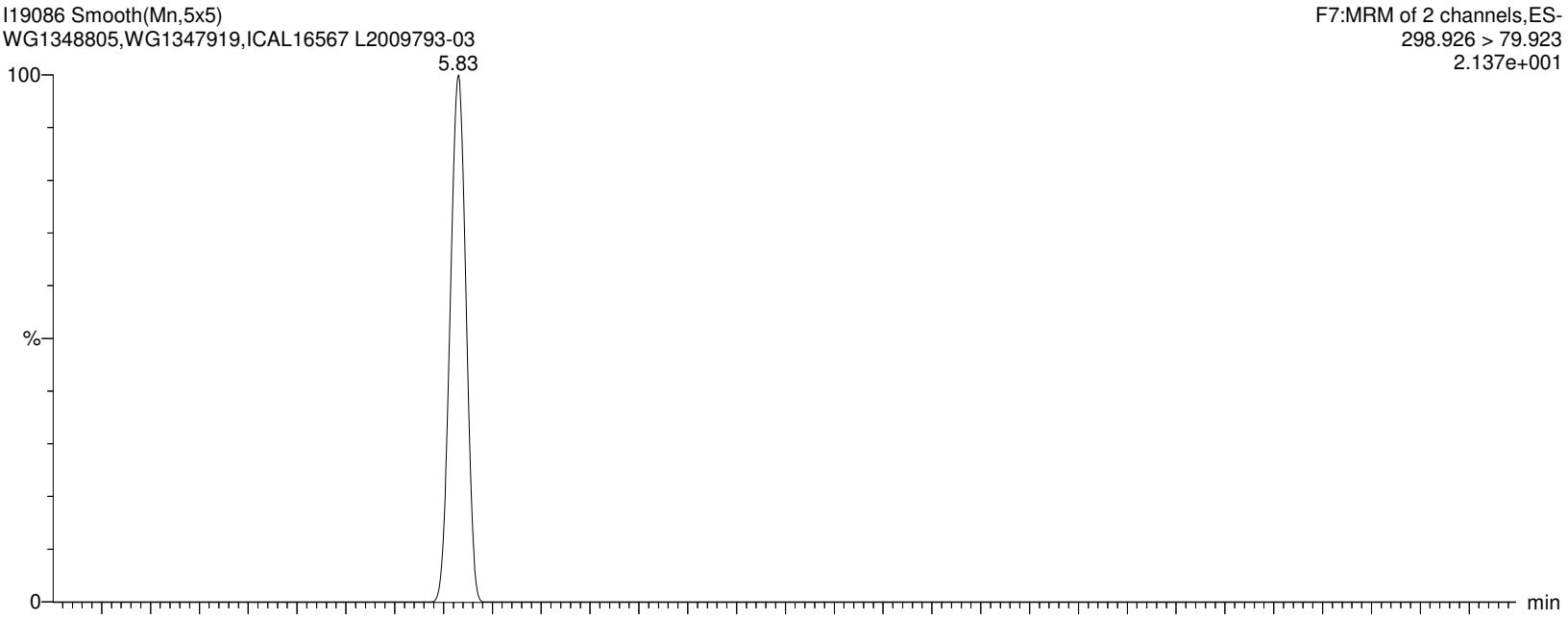

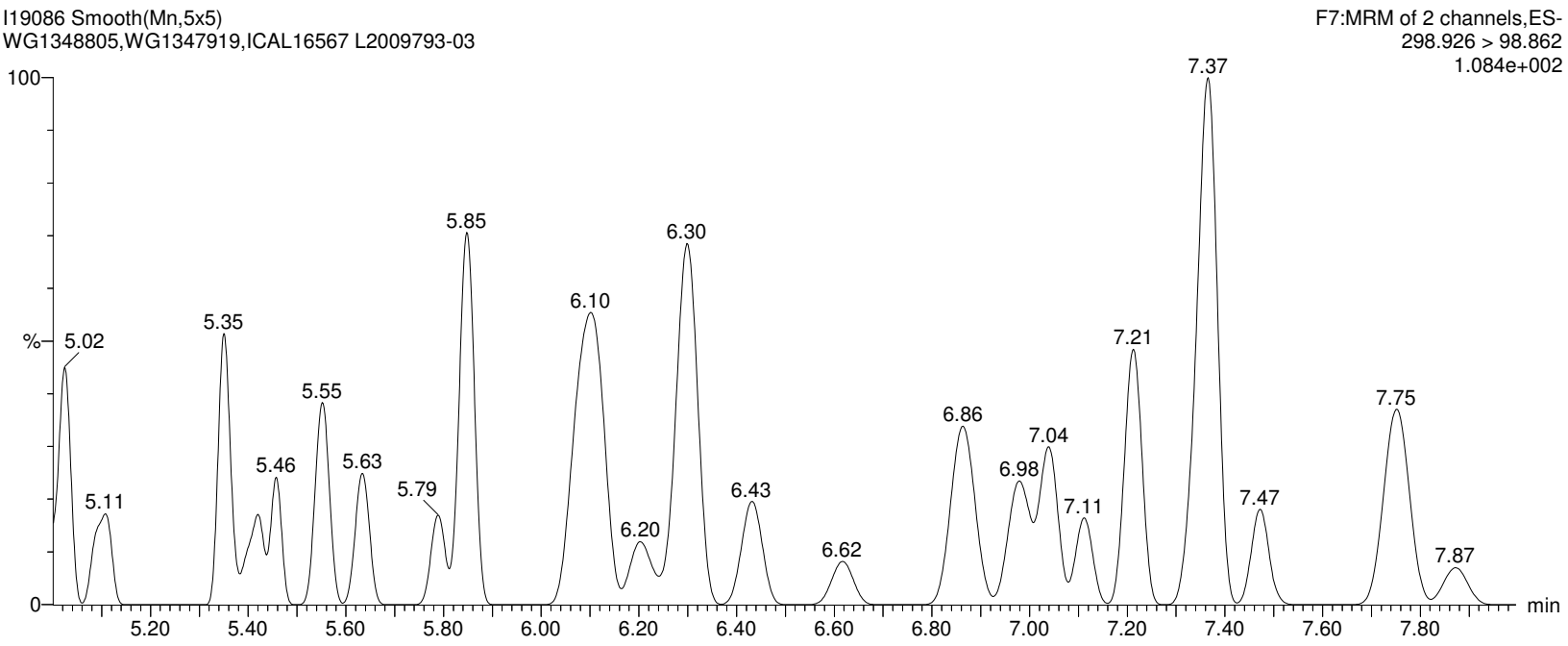

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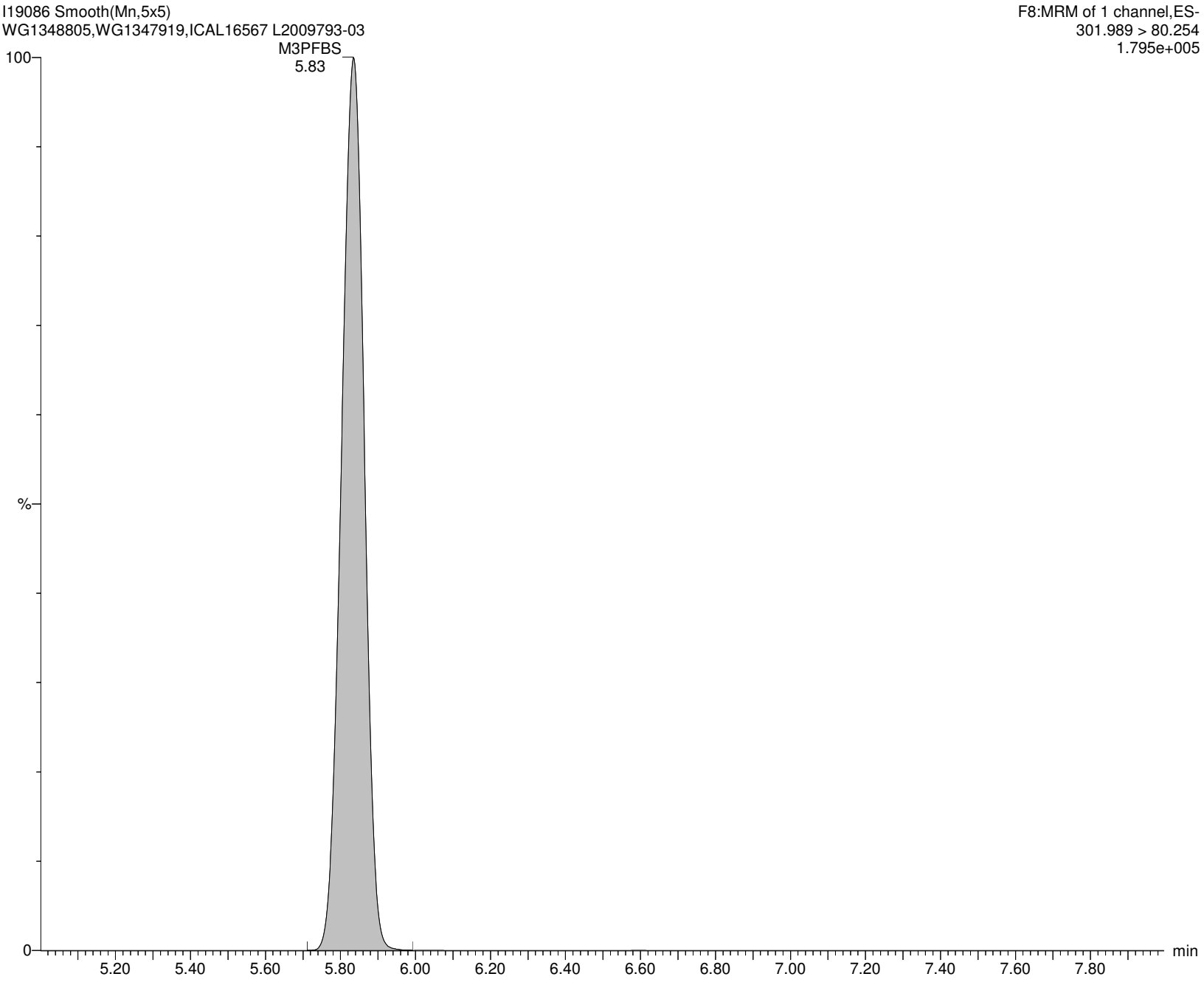

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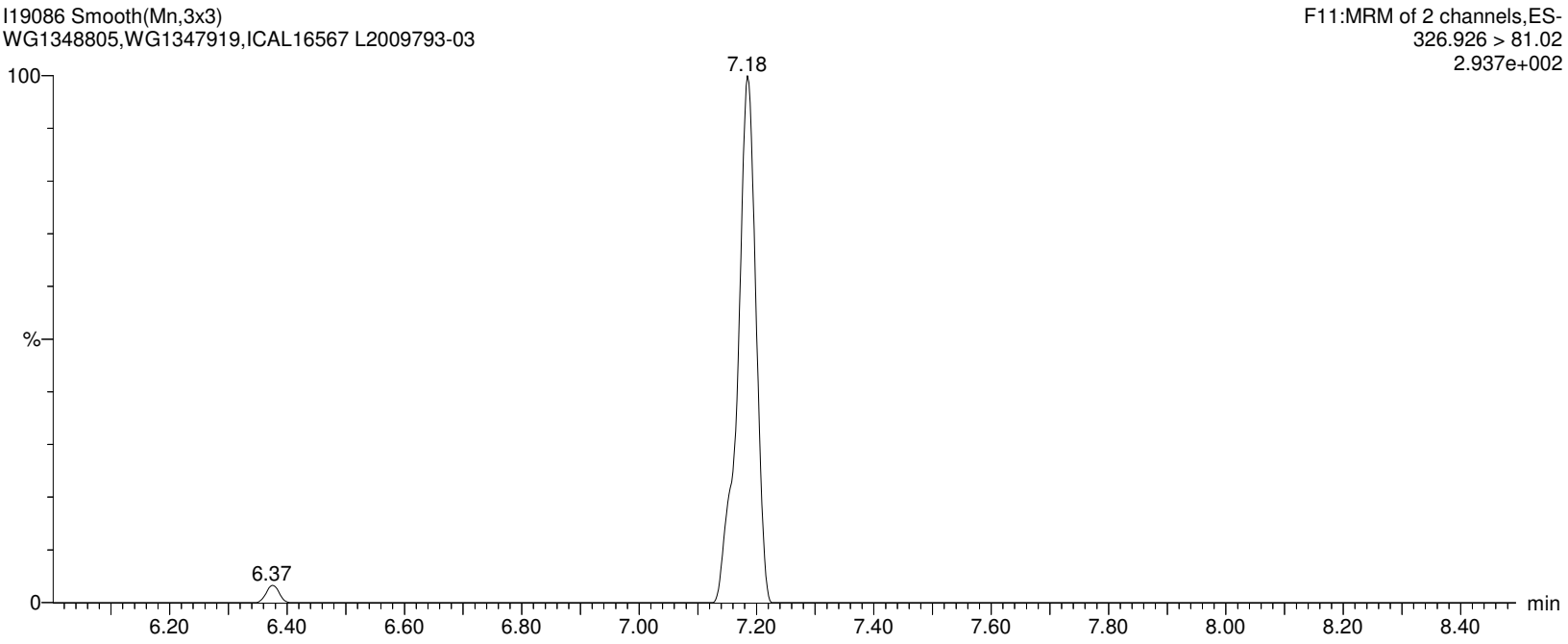

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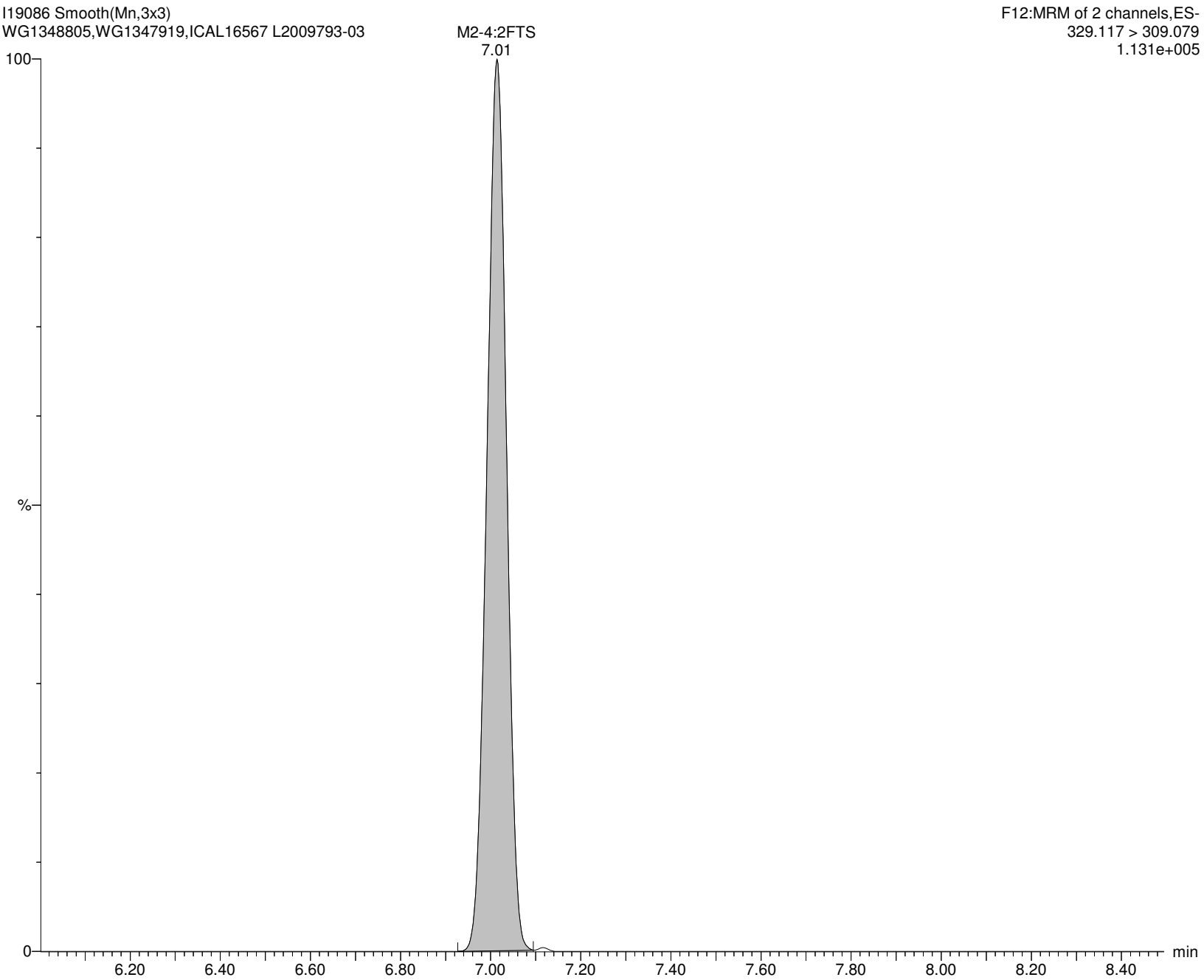

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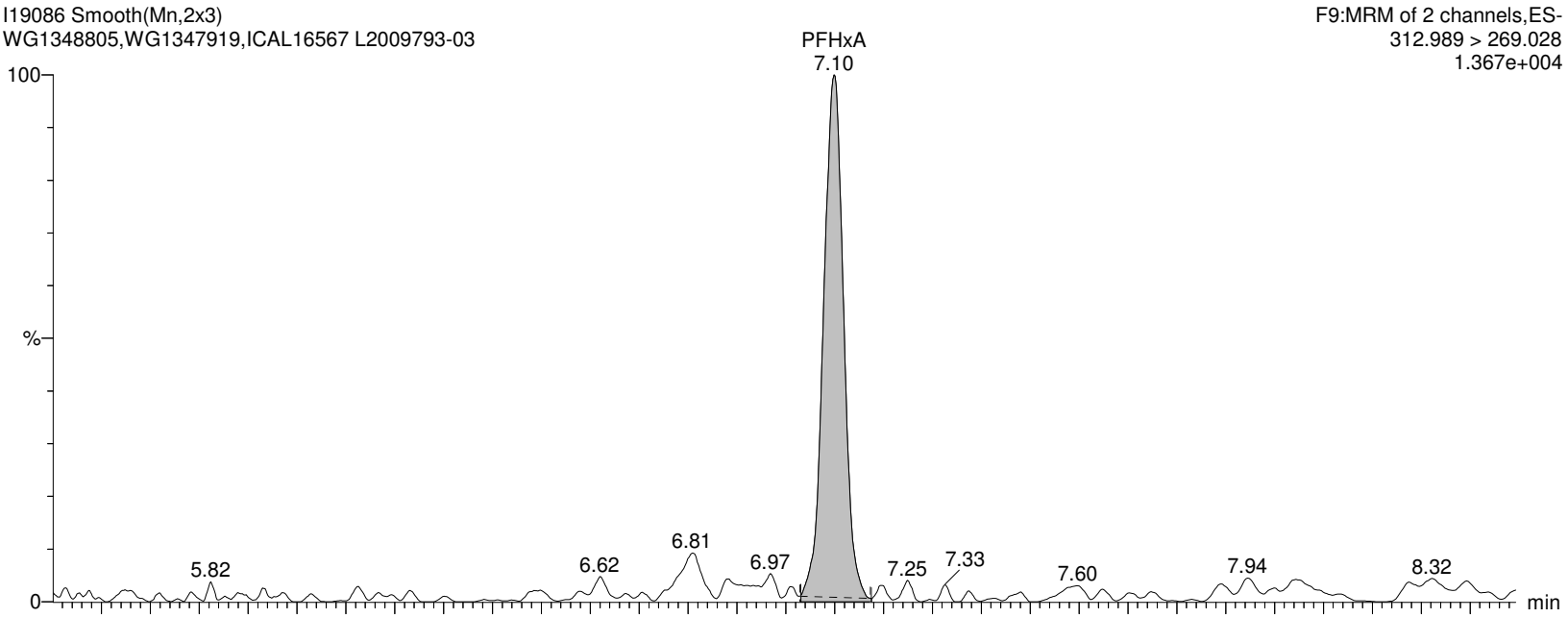
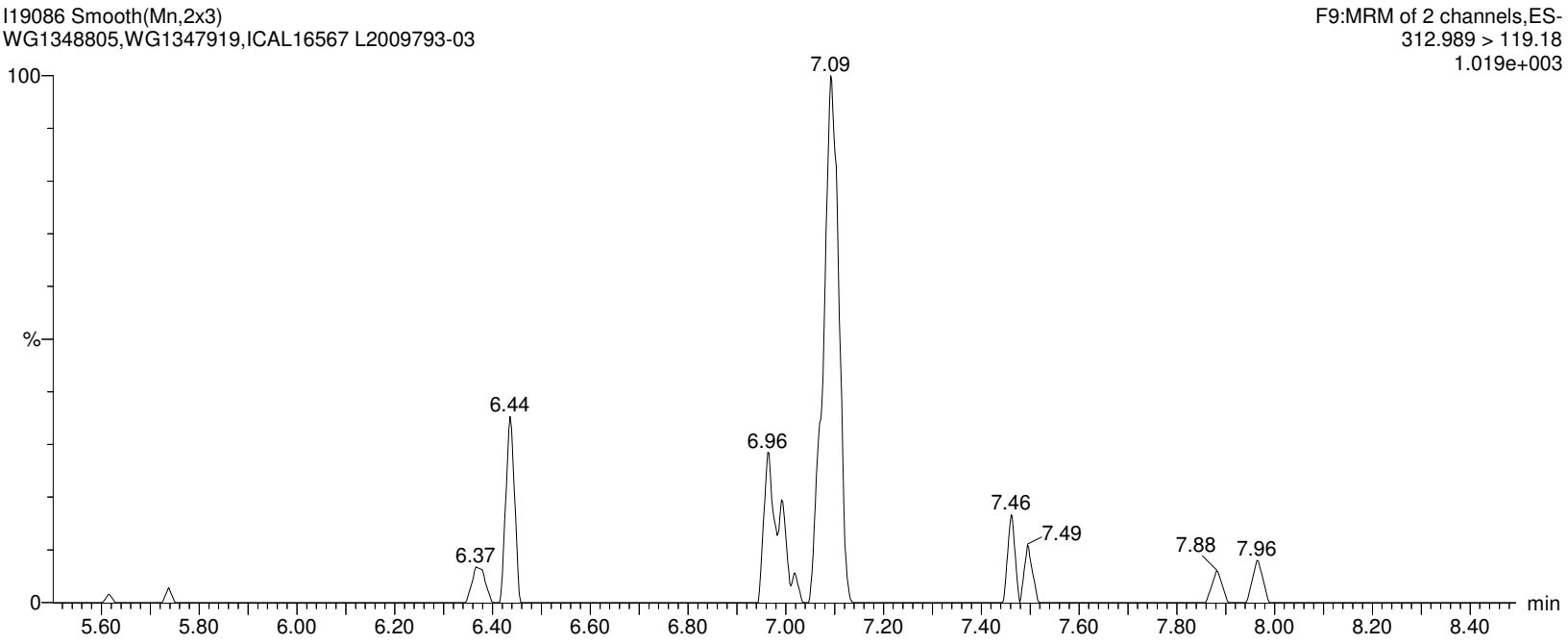
PFHxA





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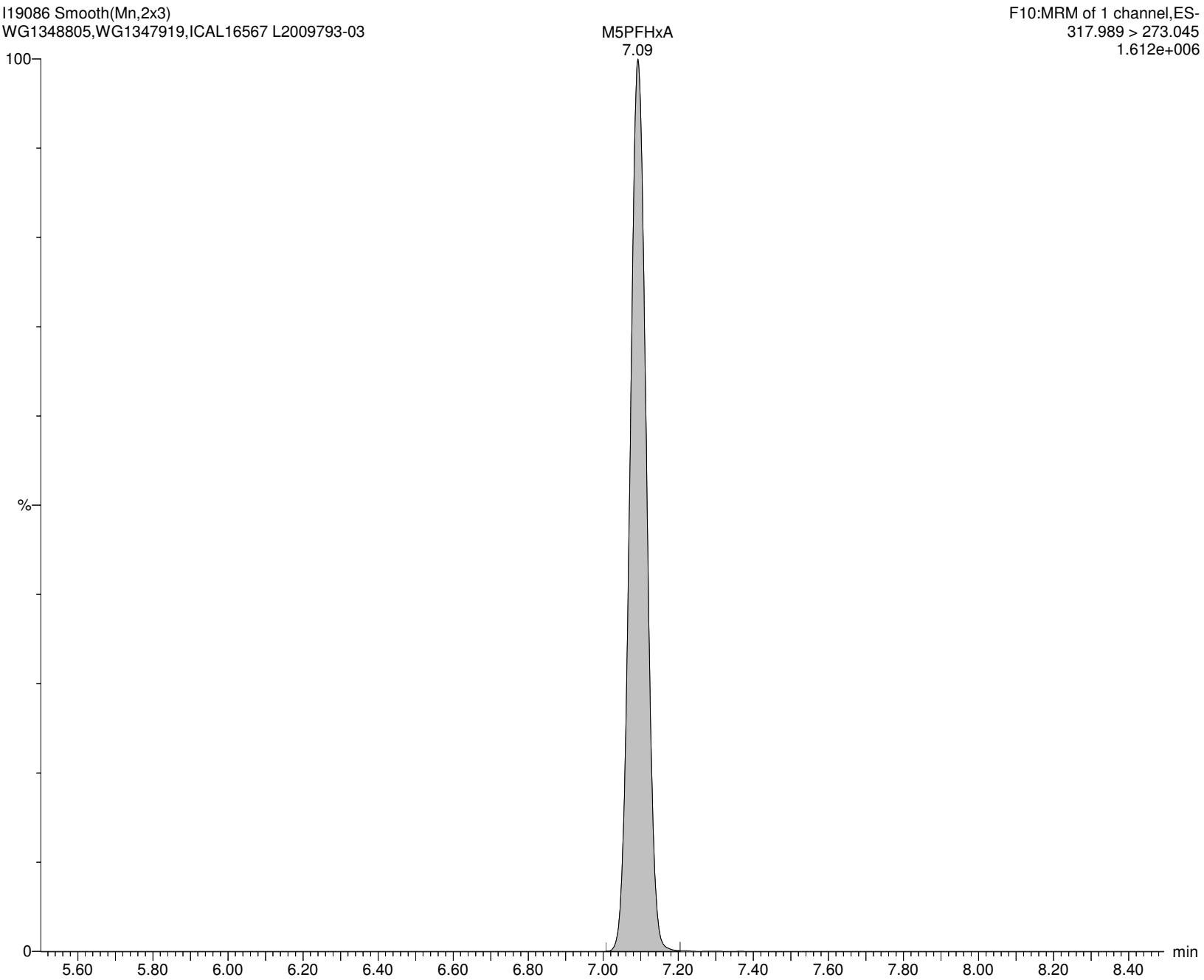

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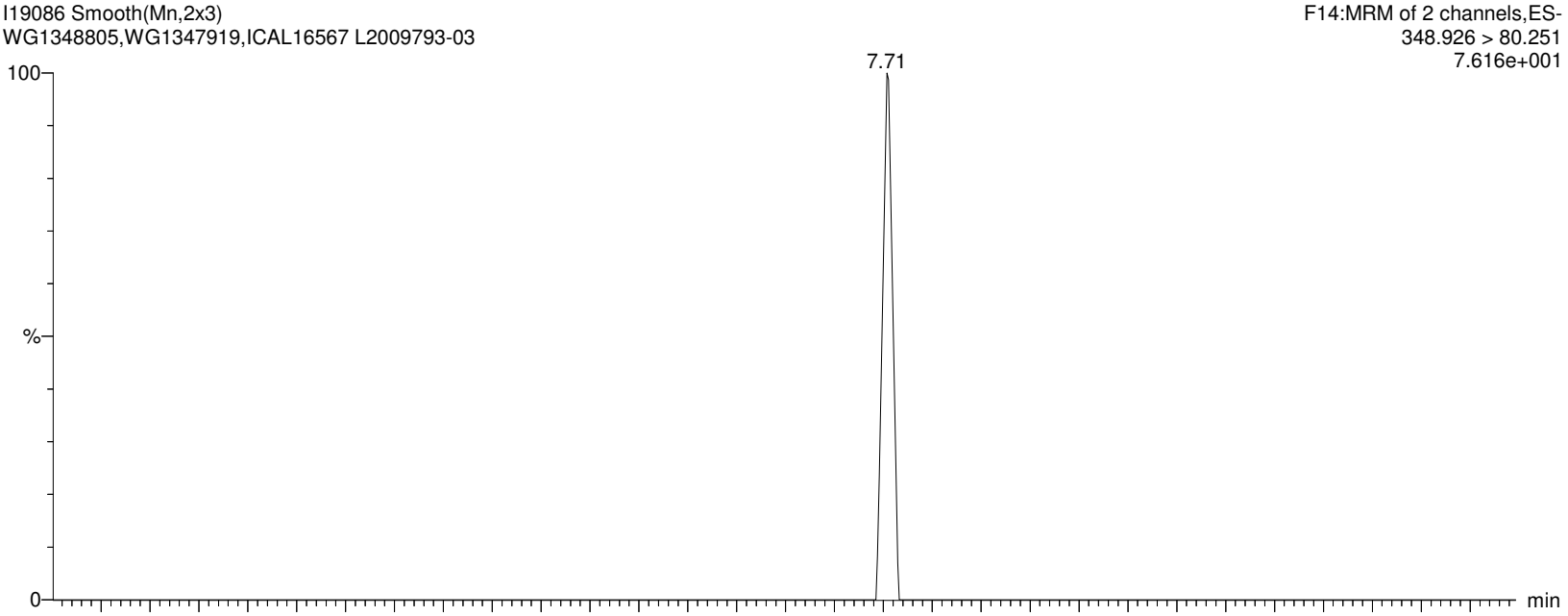
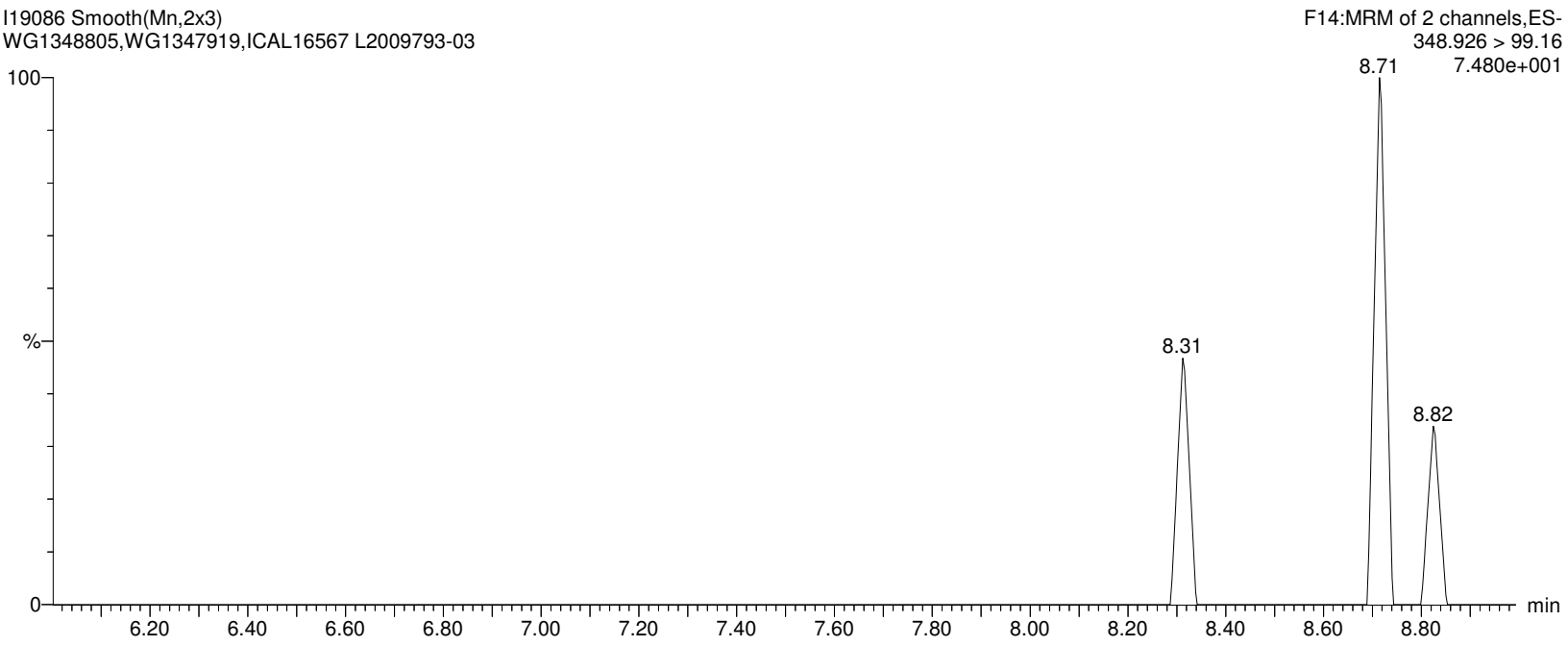
PFPeS





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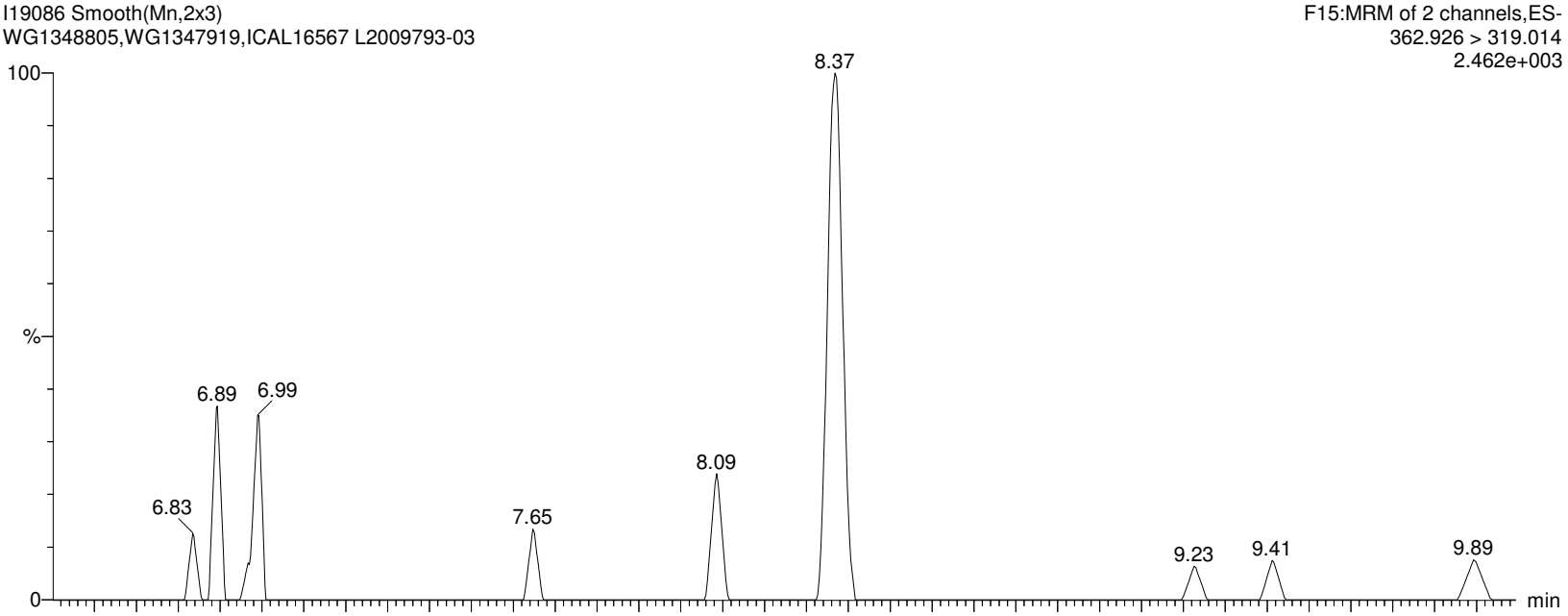
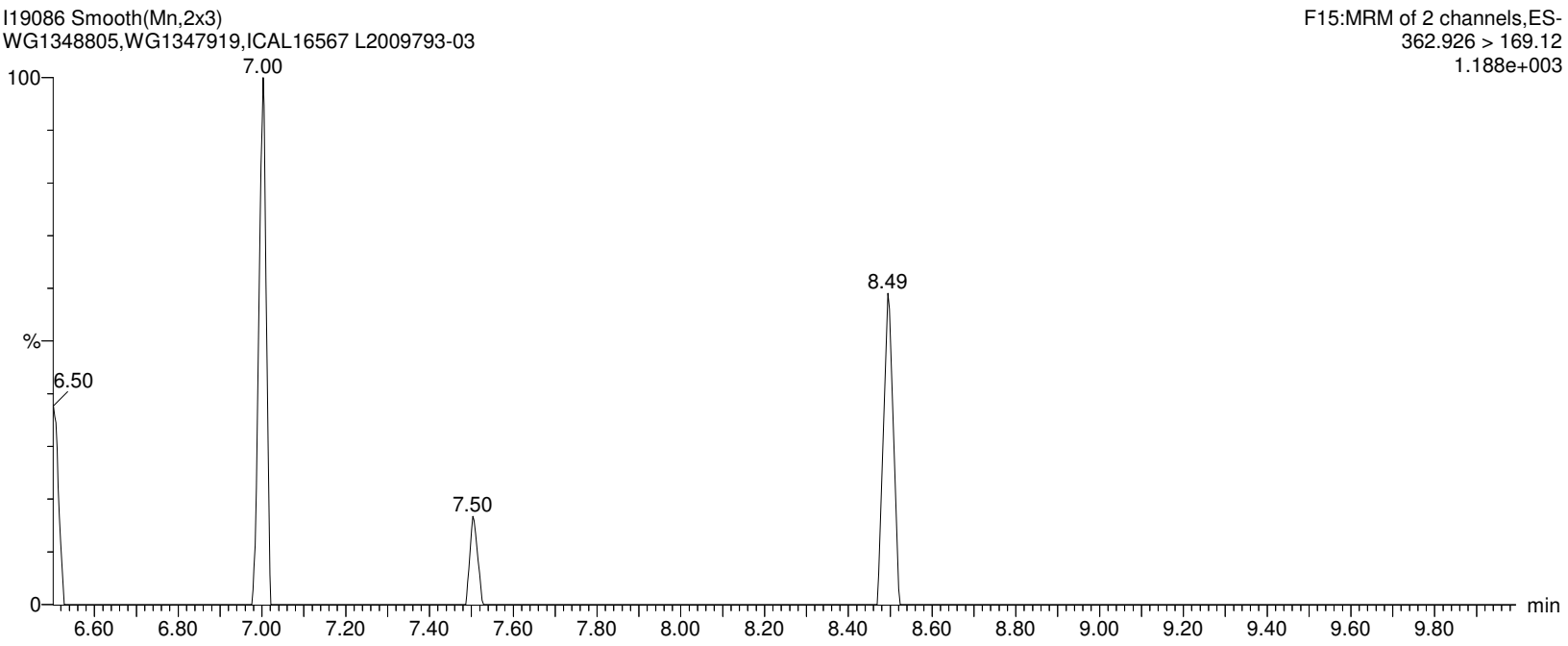
PFHpA





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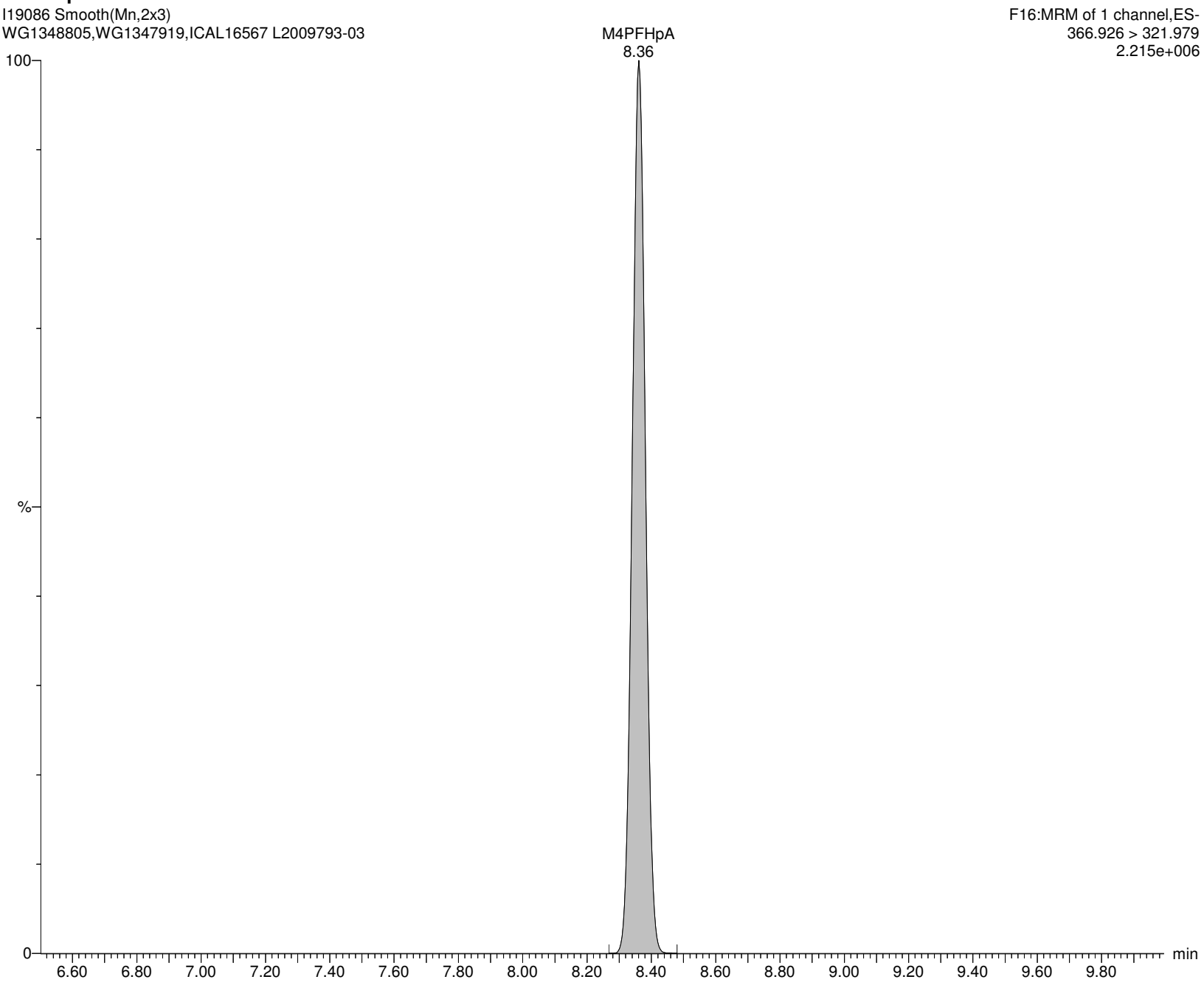

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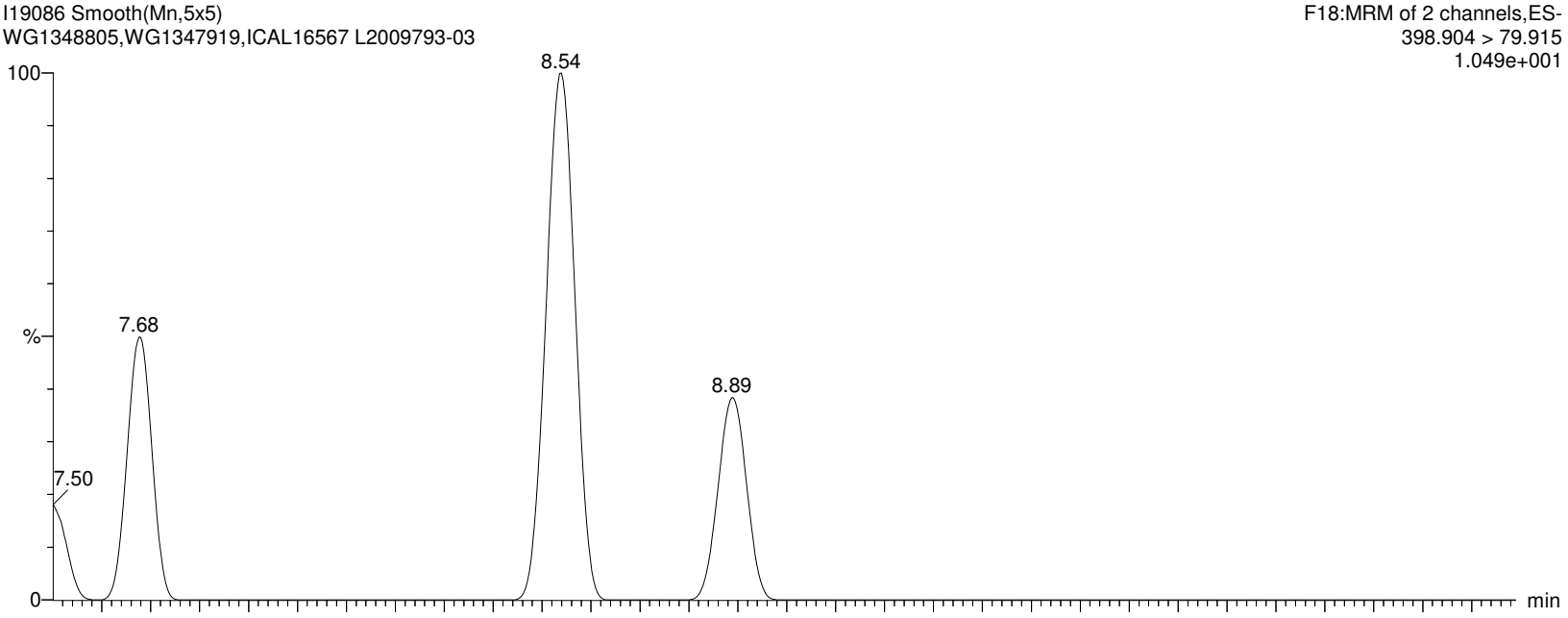

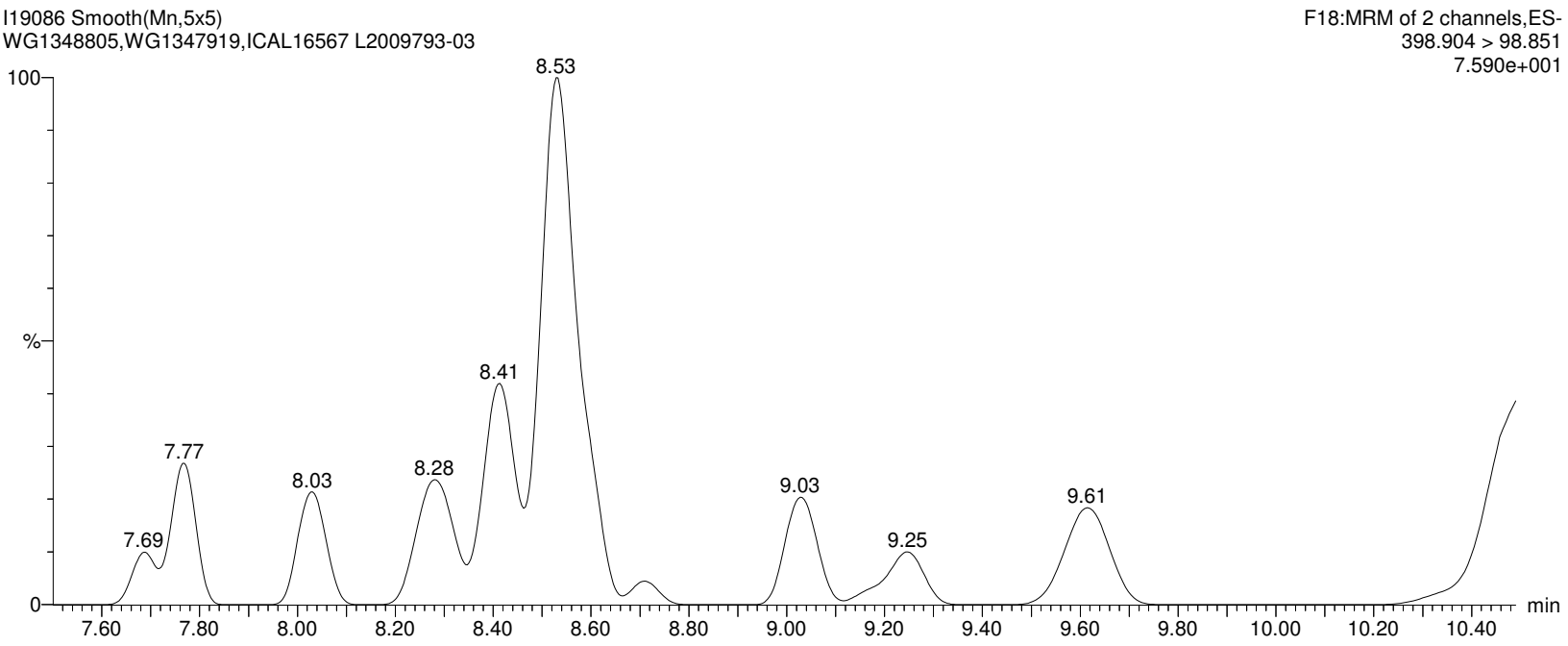

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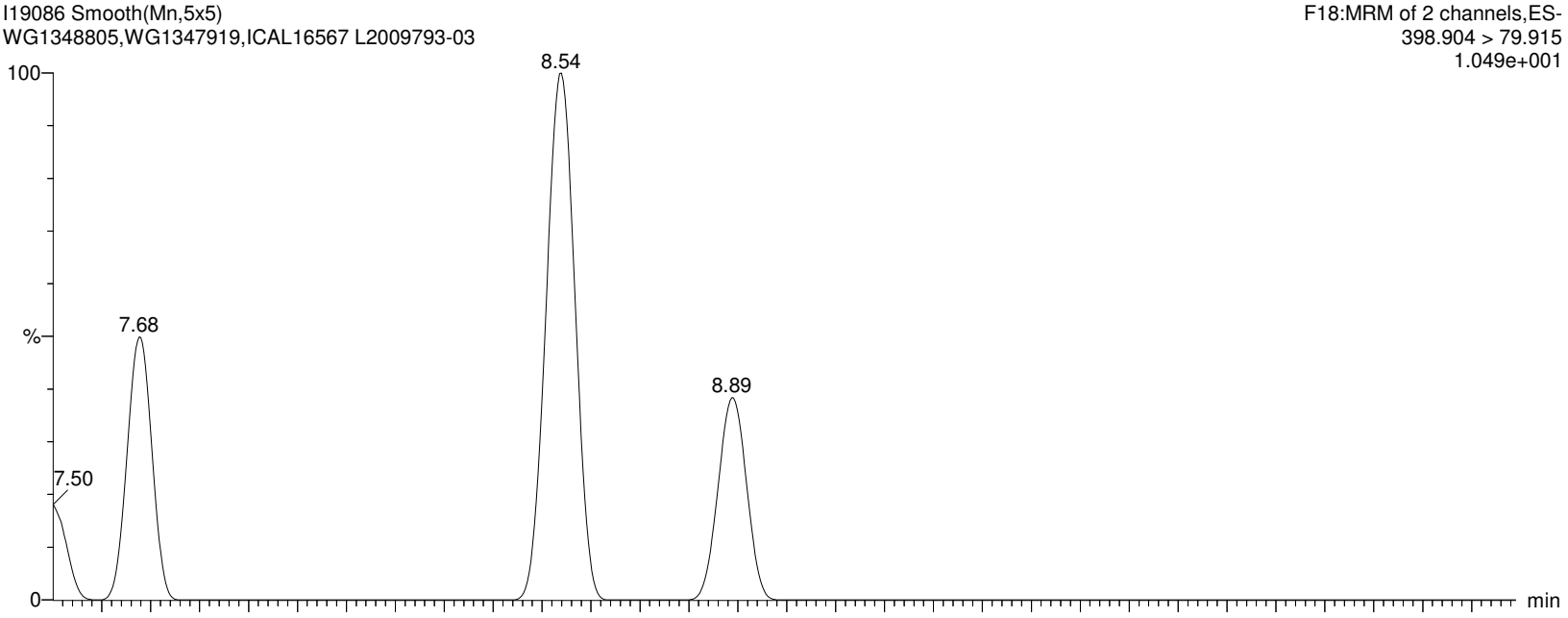
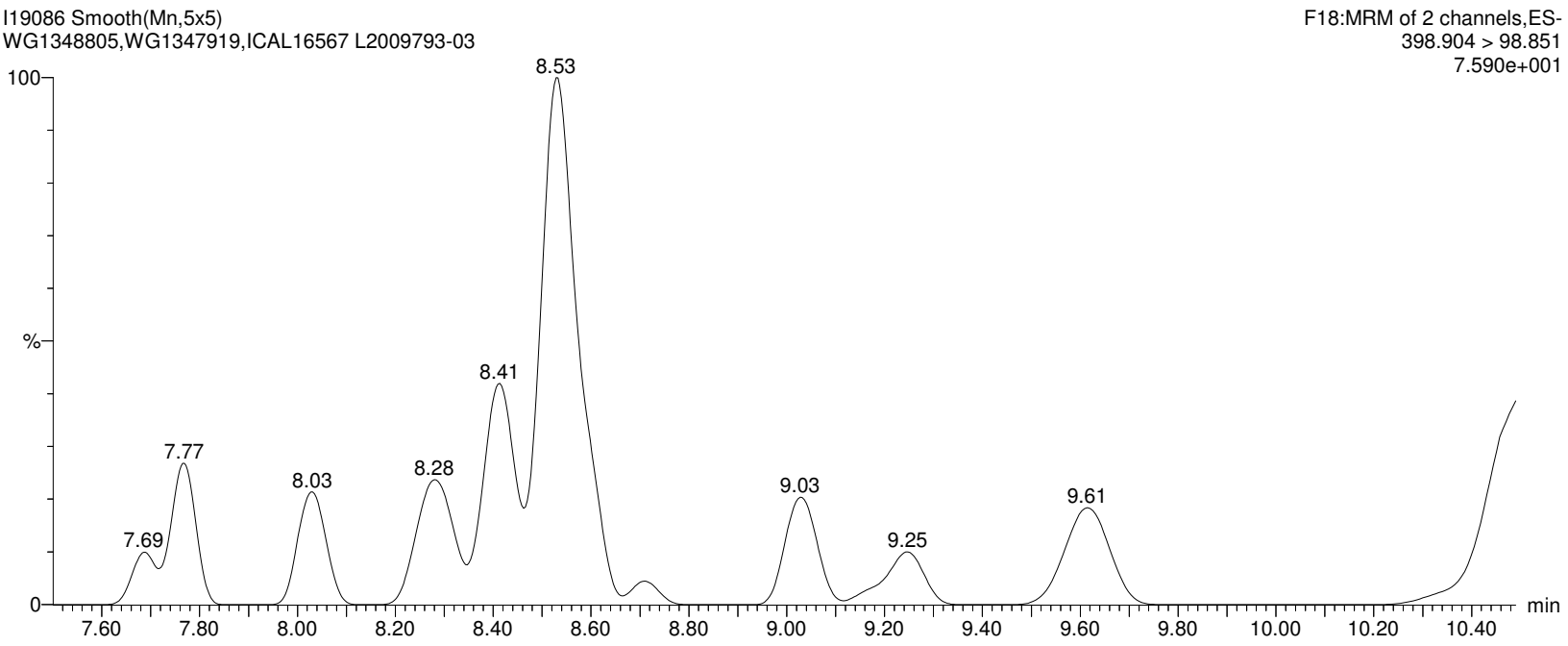
L-PFHxS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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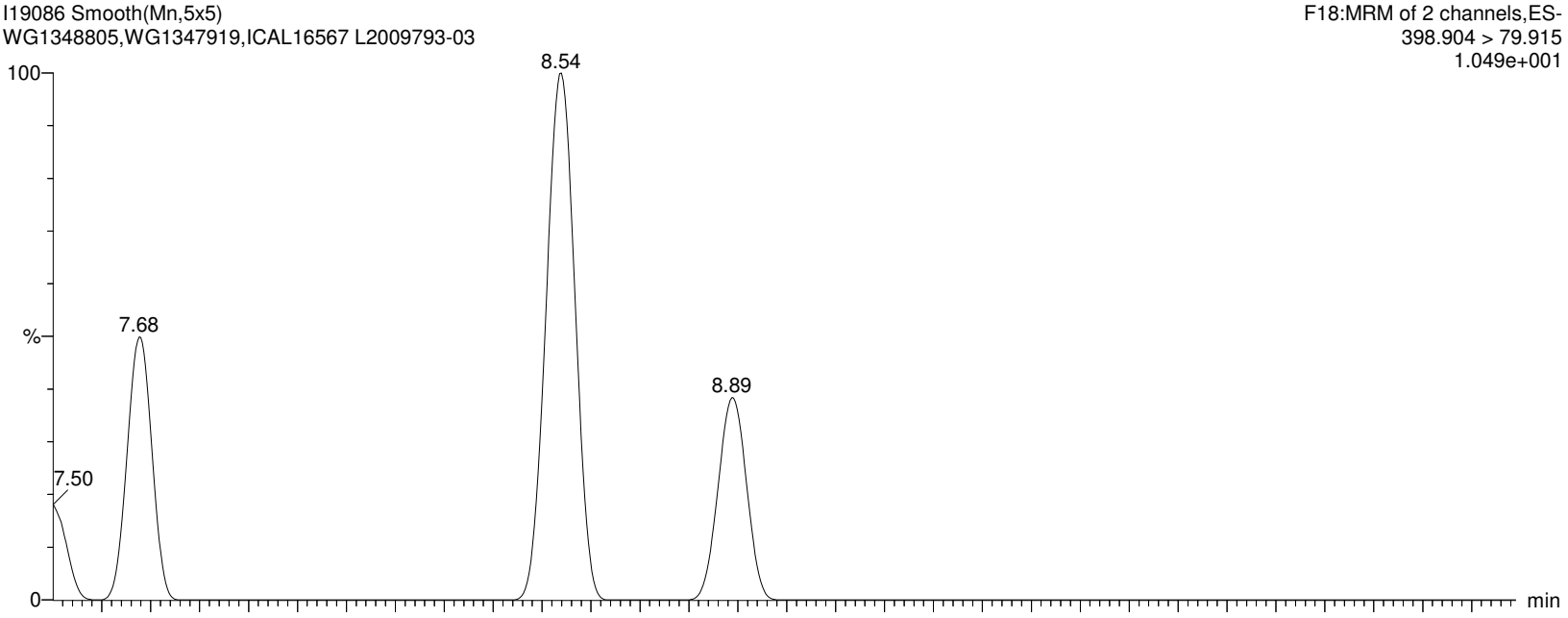

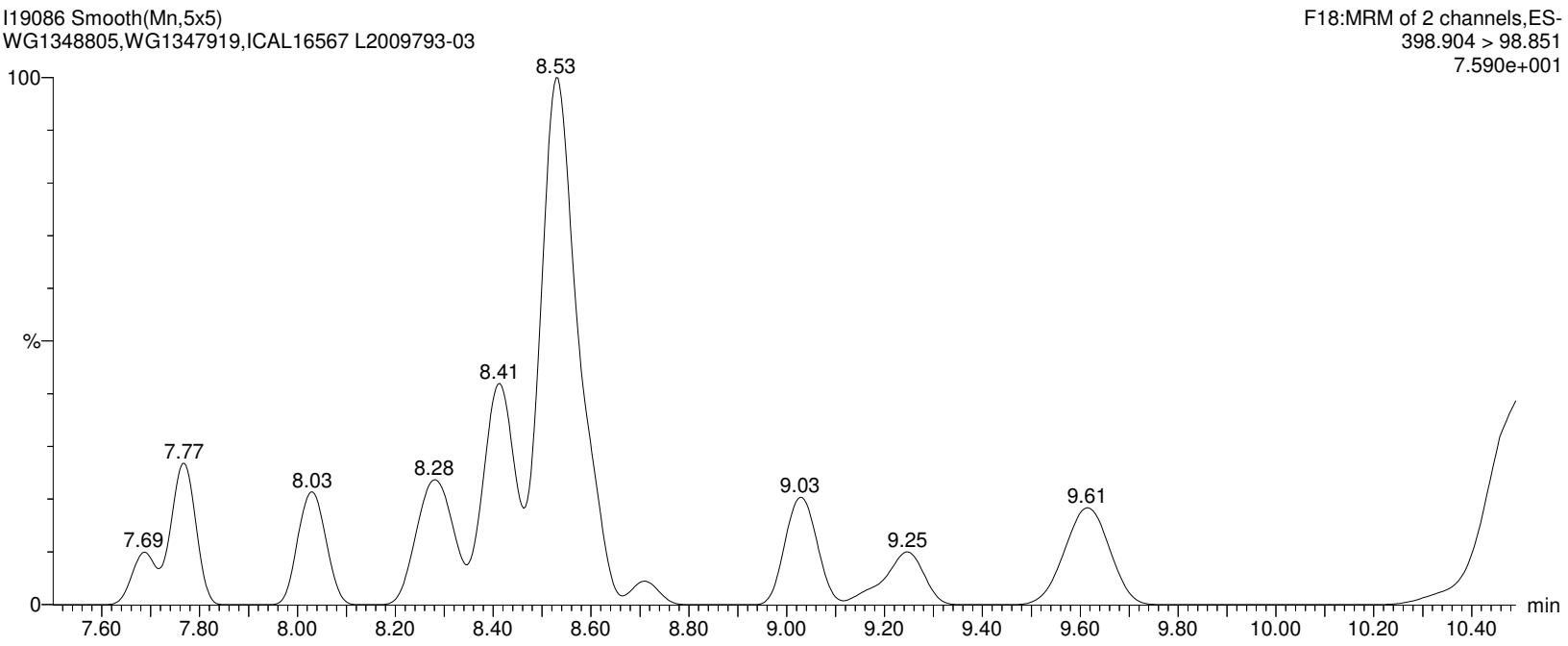

all concentration units in (ng/mL)

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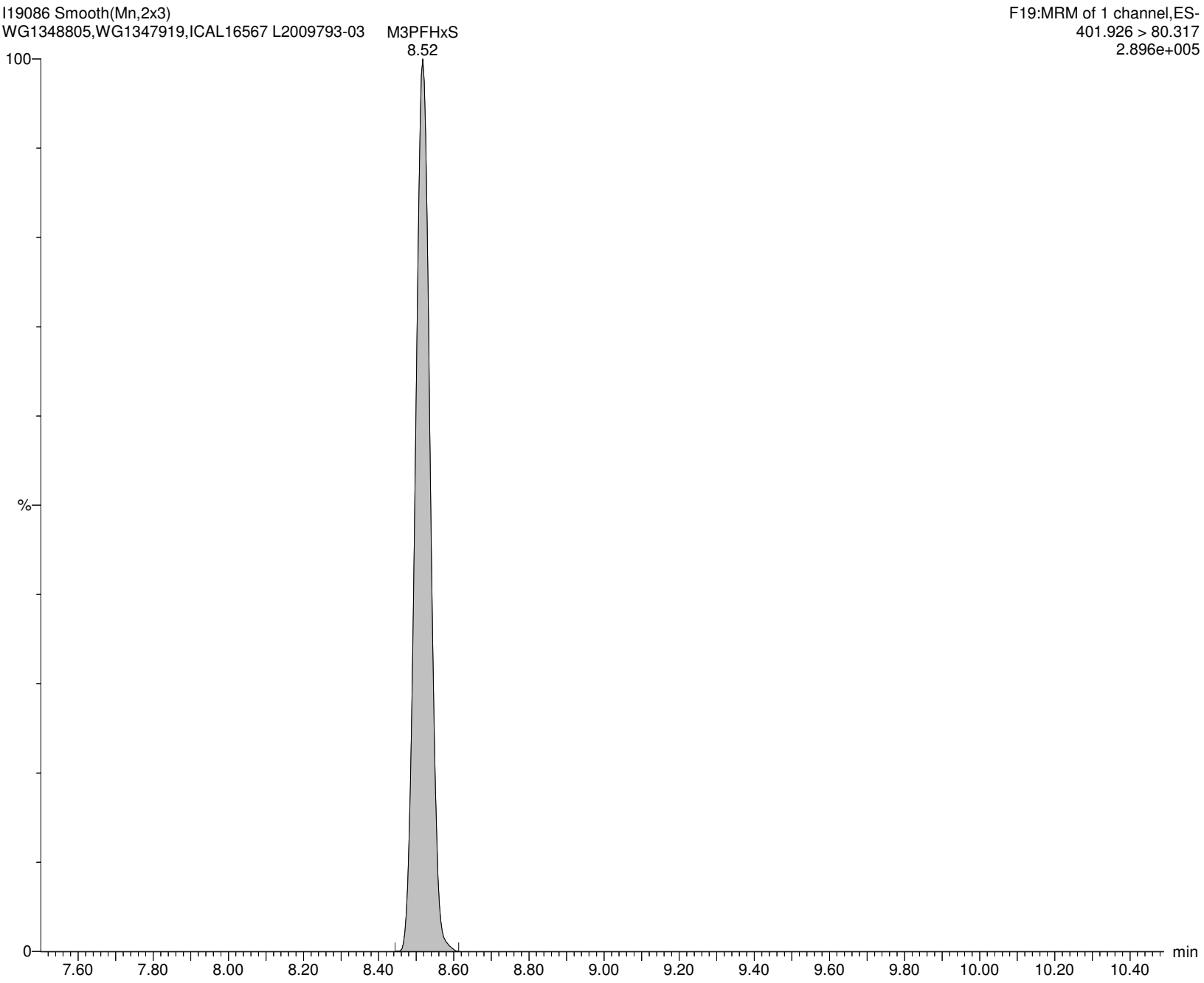

all concentration units in (ng/mL)

Alpha Analytical Inc.
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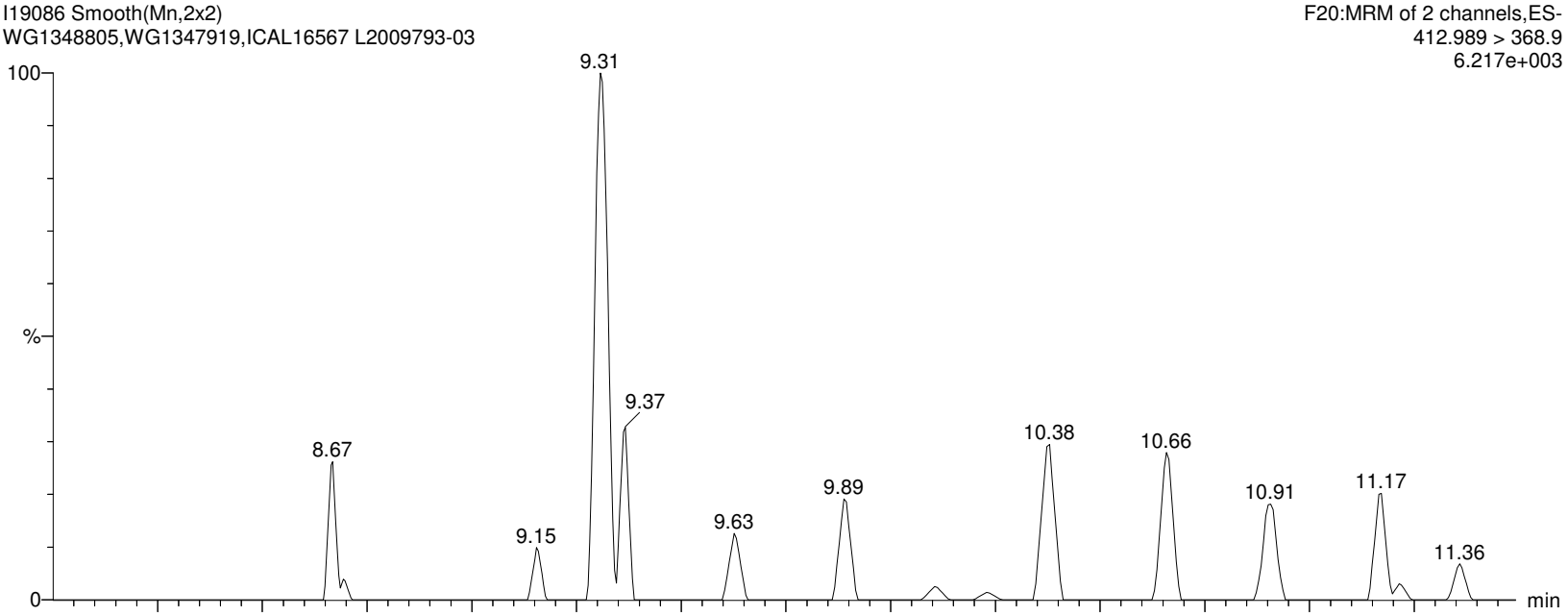

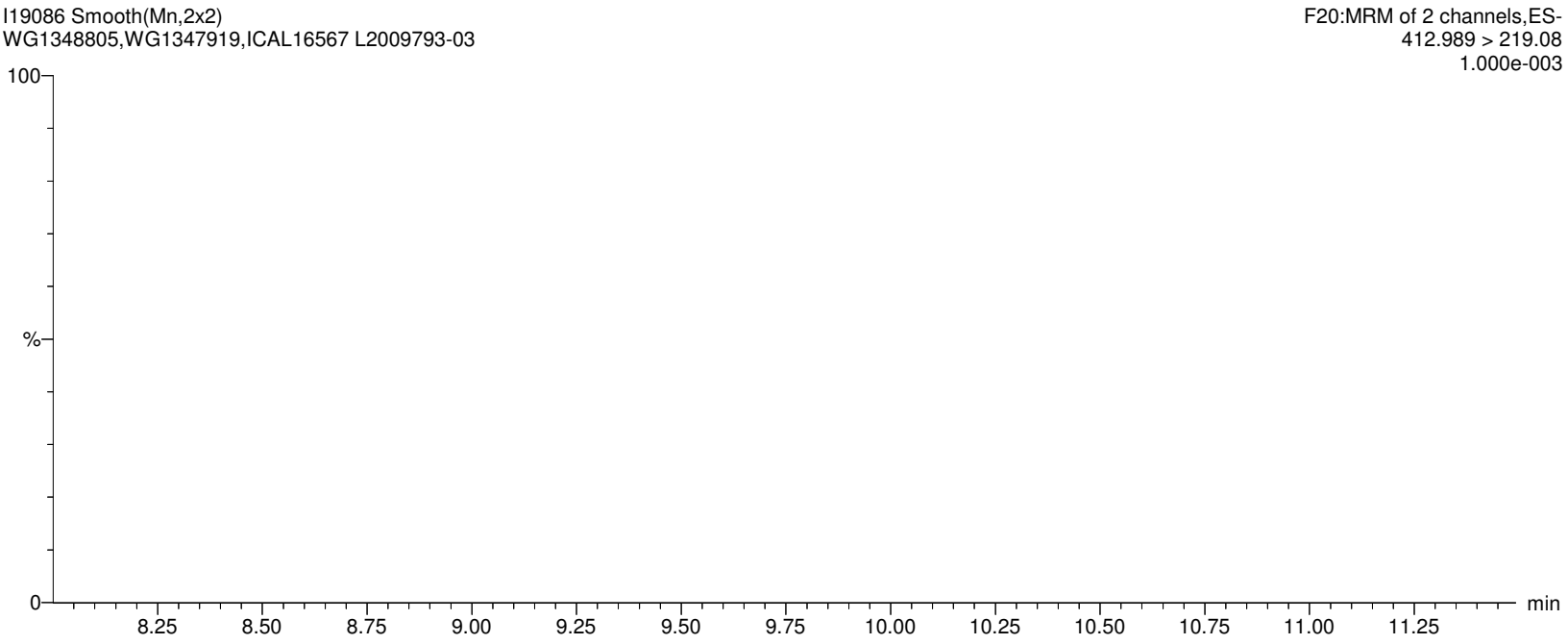

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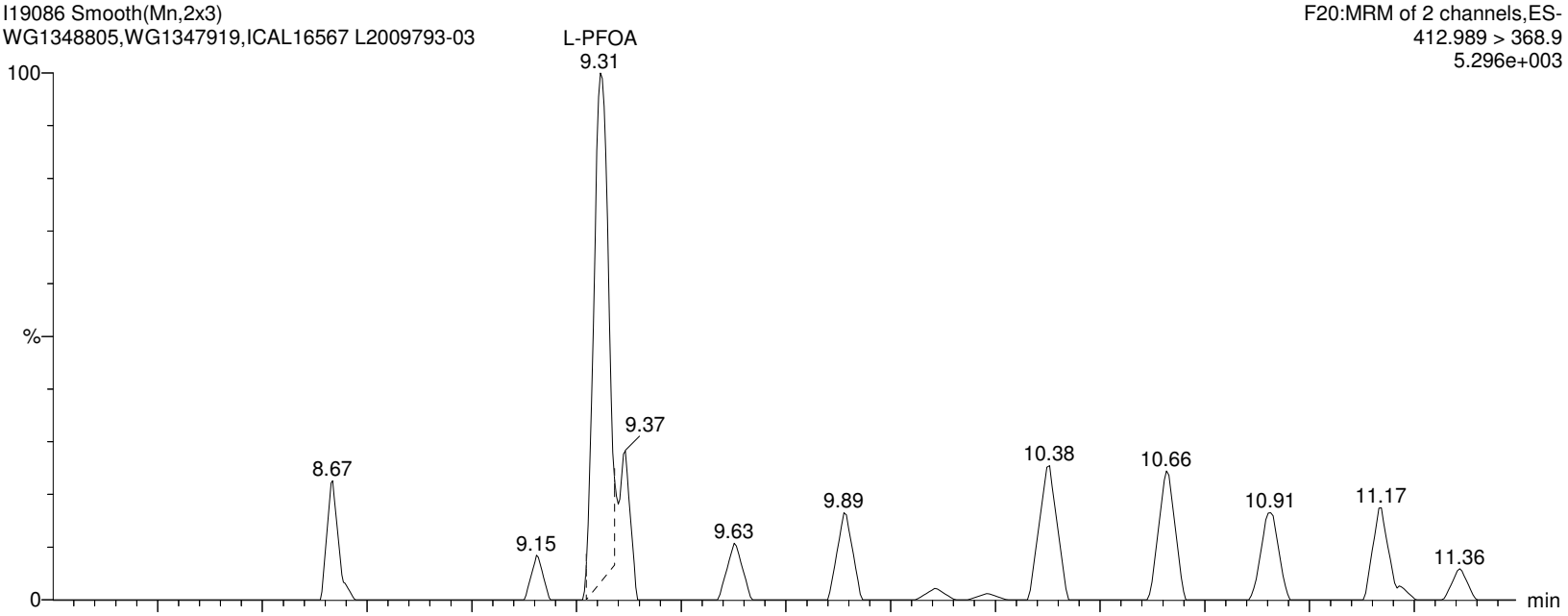

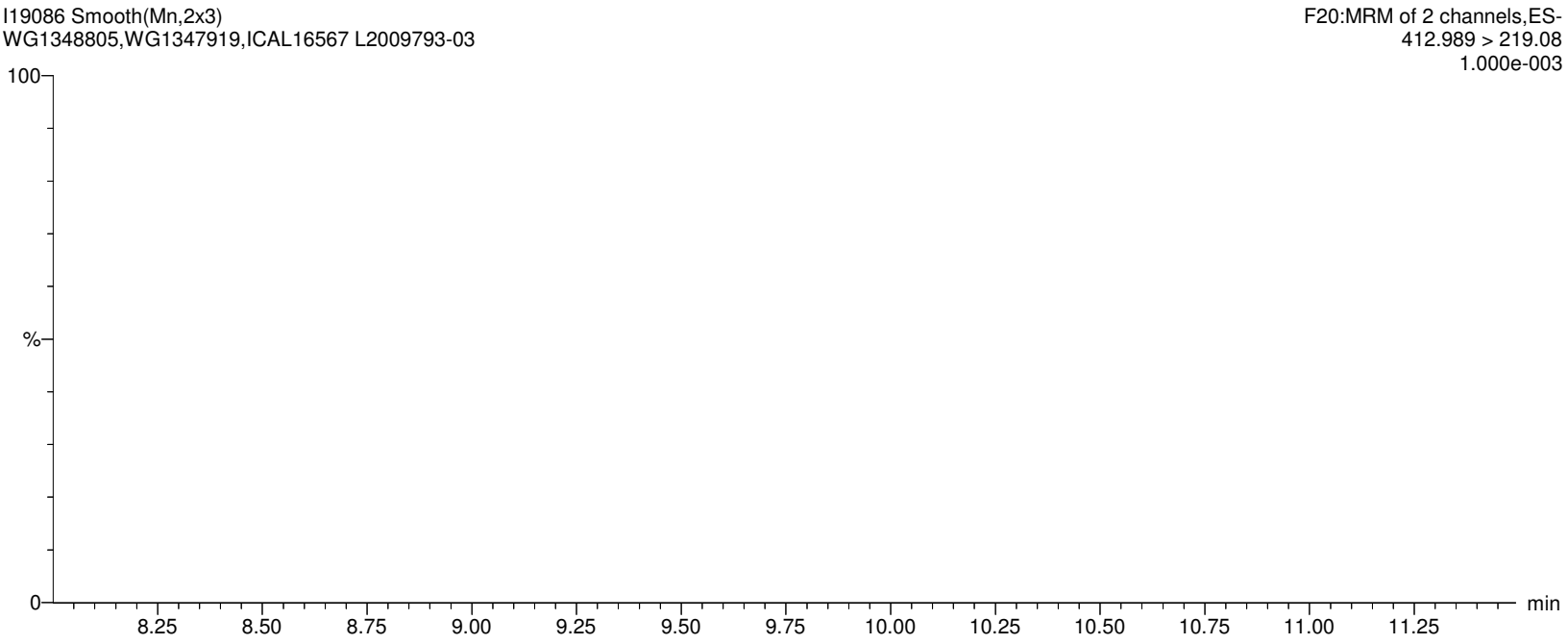

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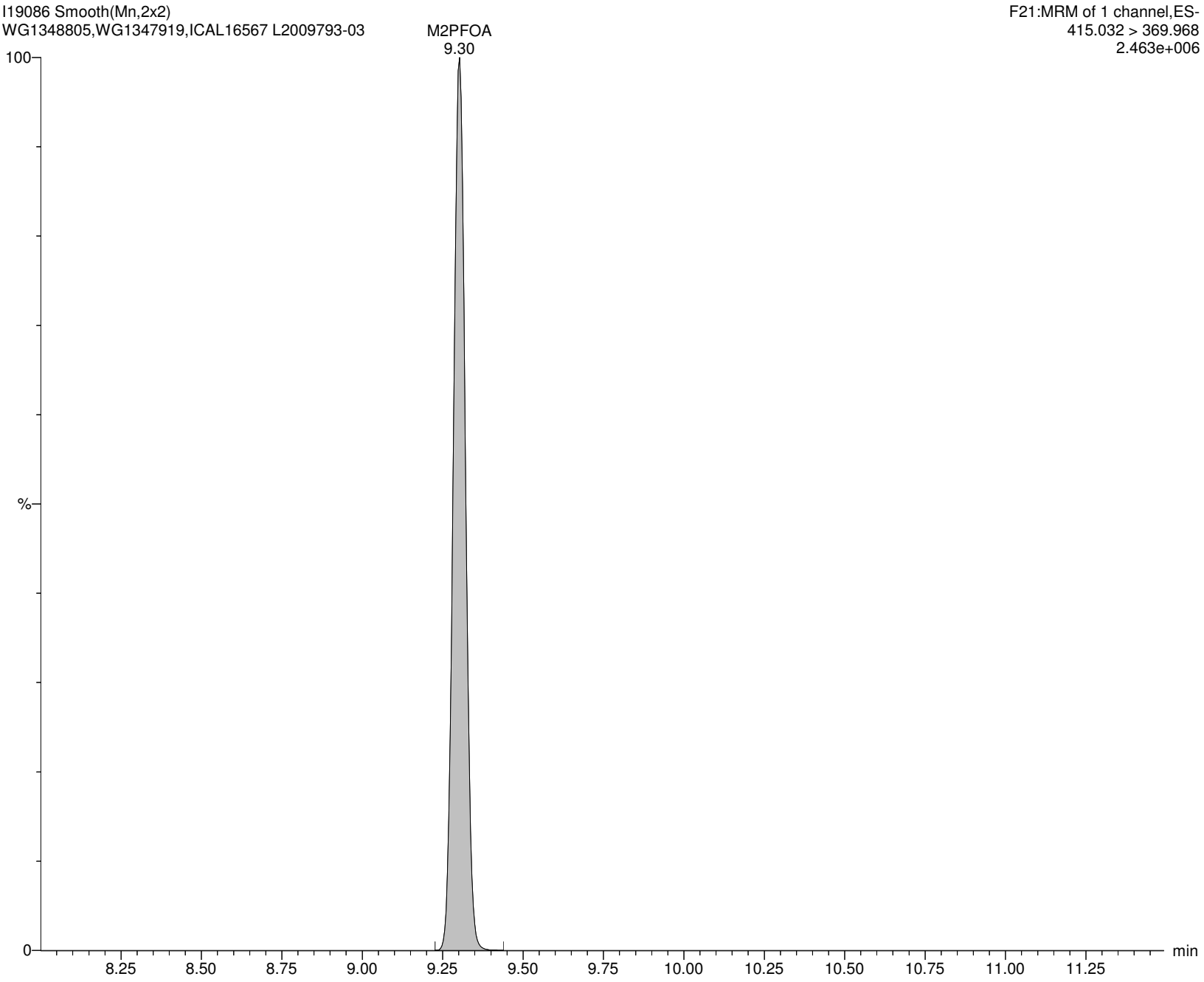

all concentration units in (ng/mL)

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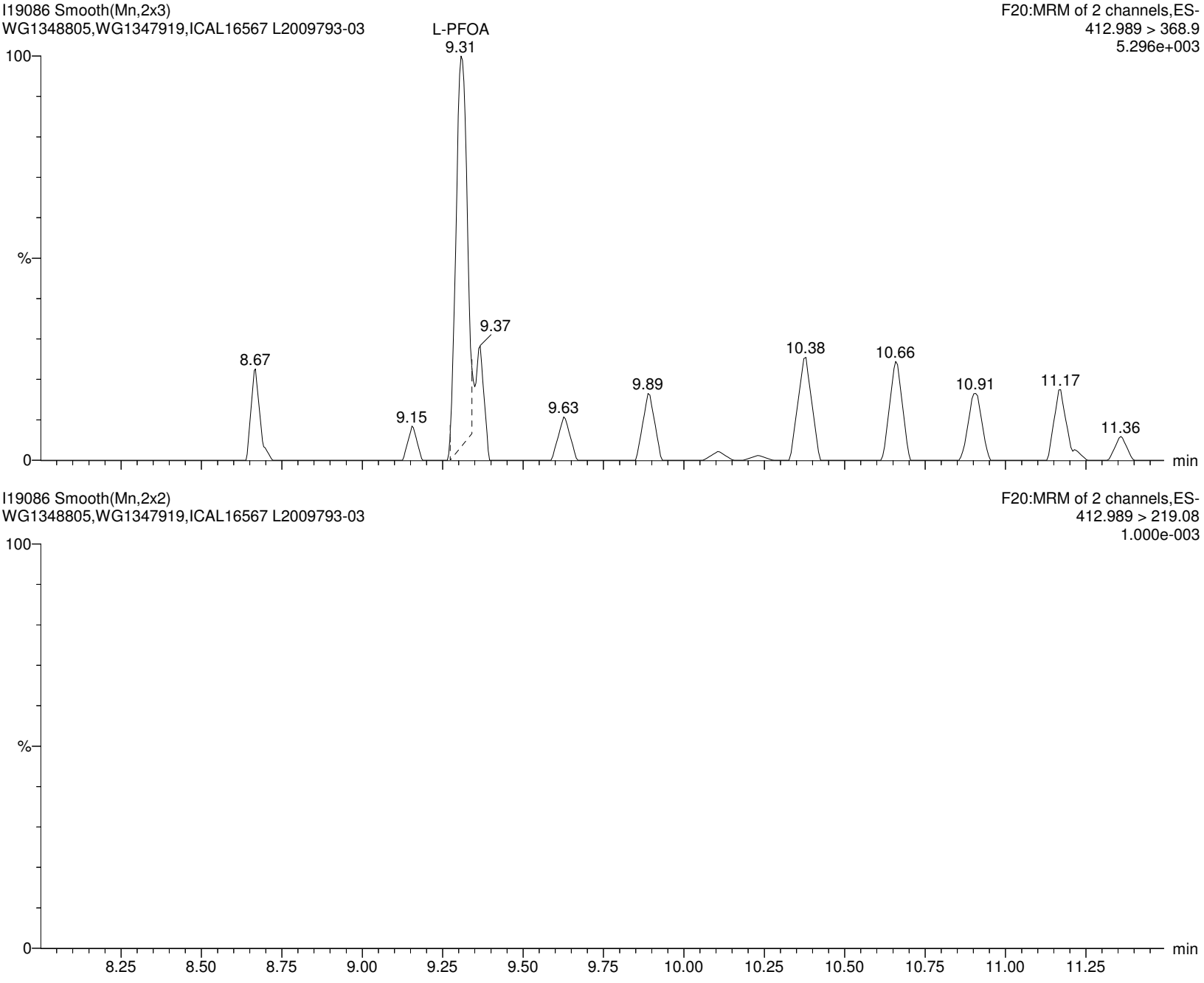

all concentration units in (ng/mL)

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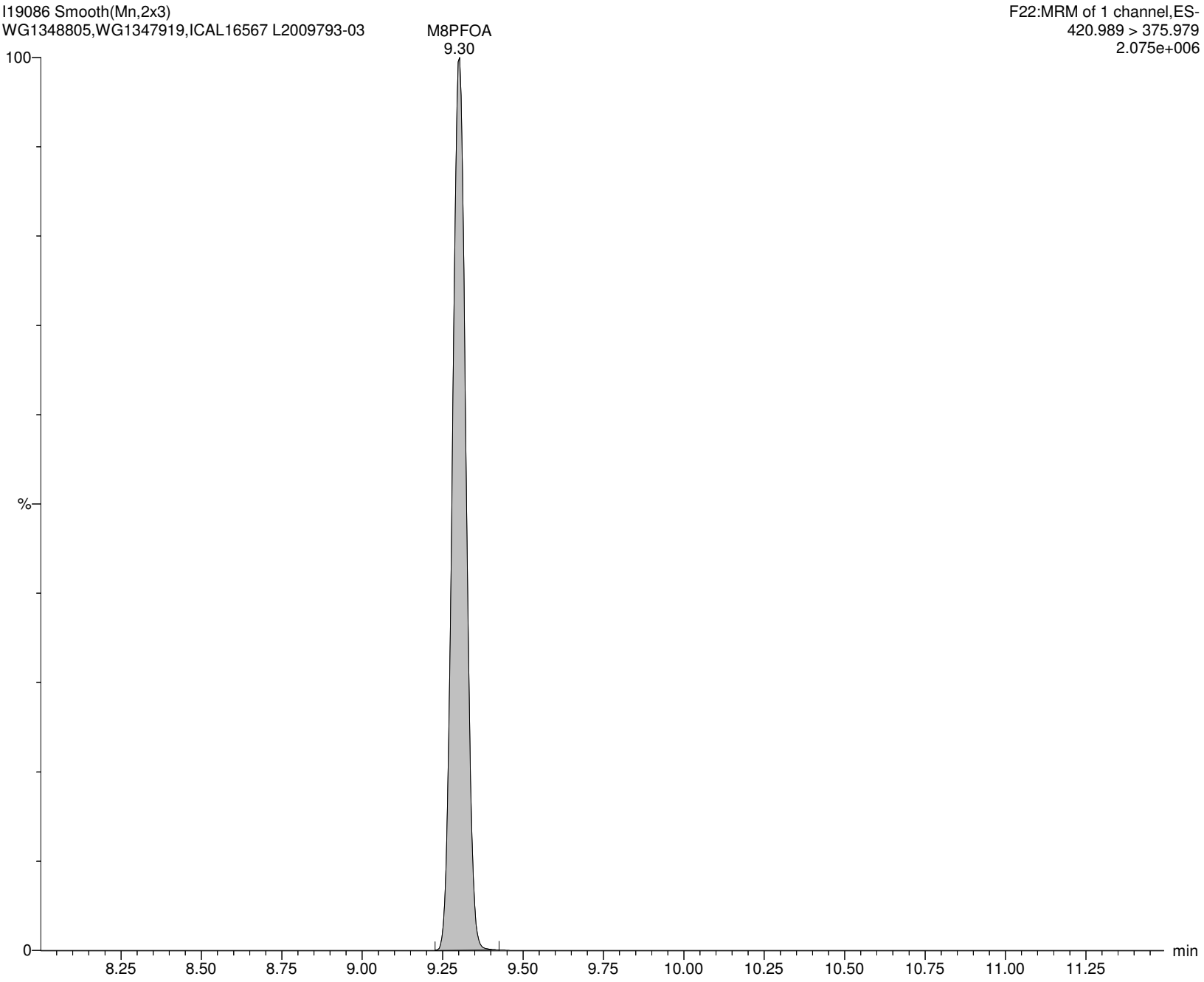

all concentration units in (ng/mL)

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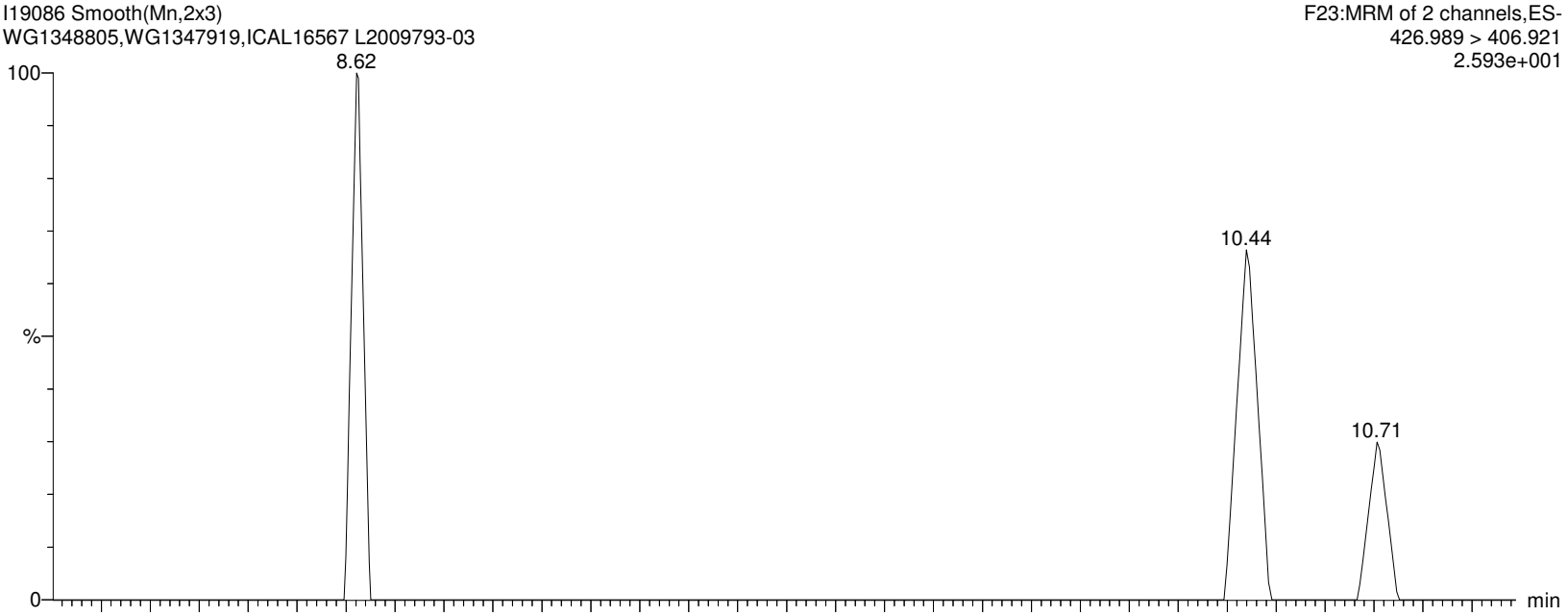

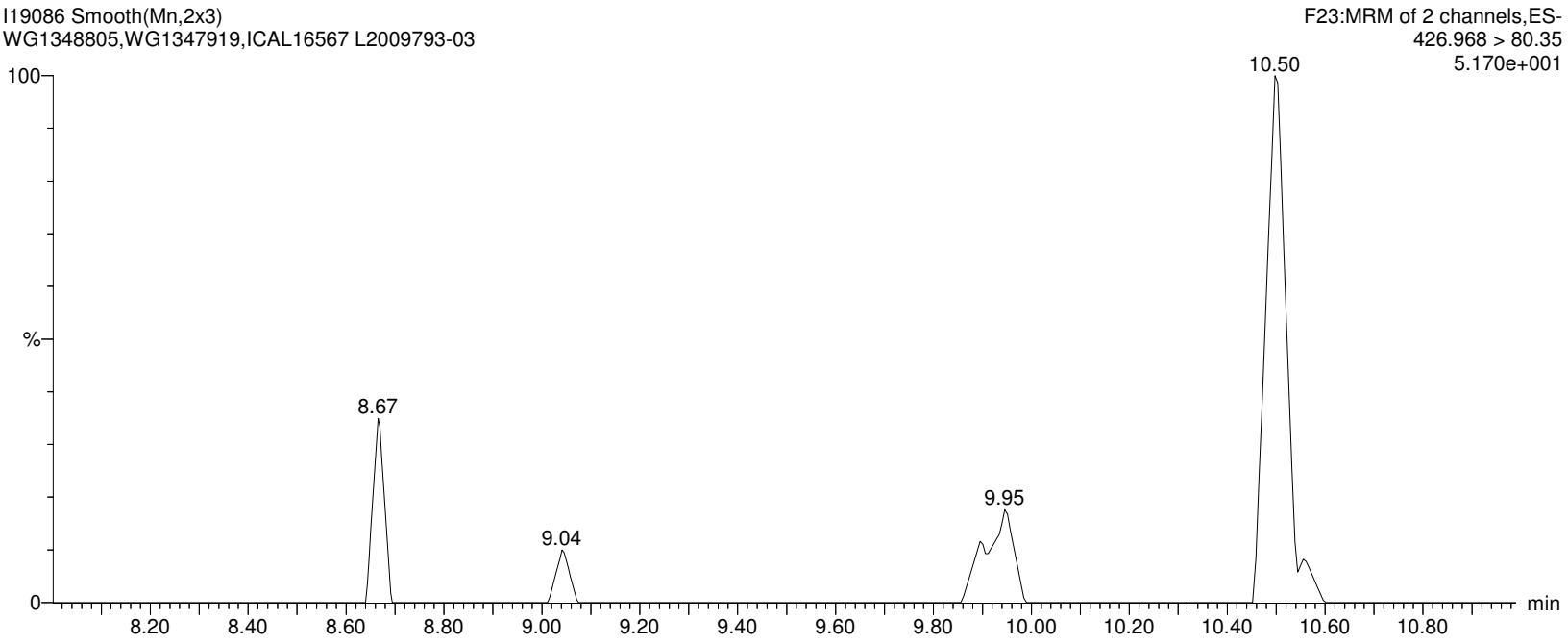

all concentration units in (ng/mL)

Alpha Analytical Inc.
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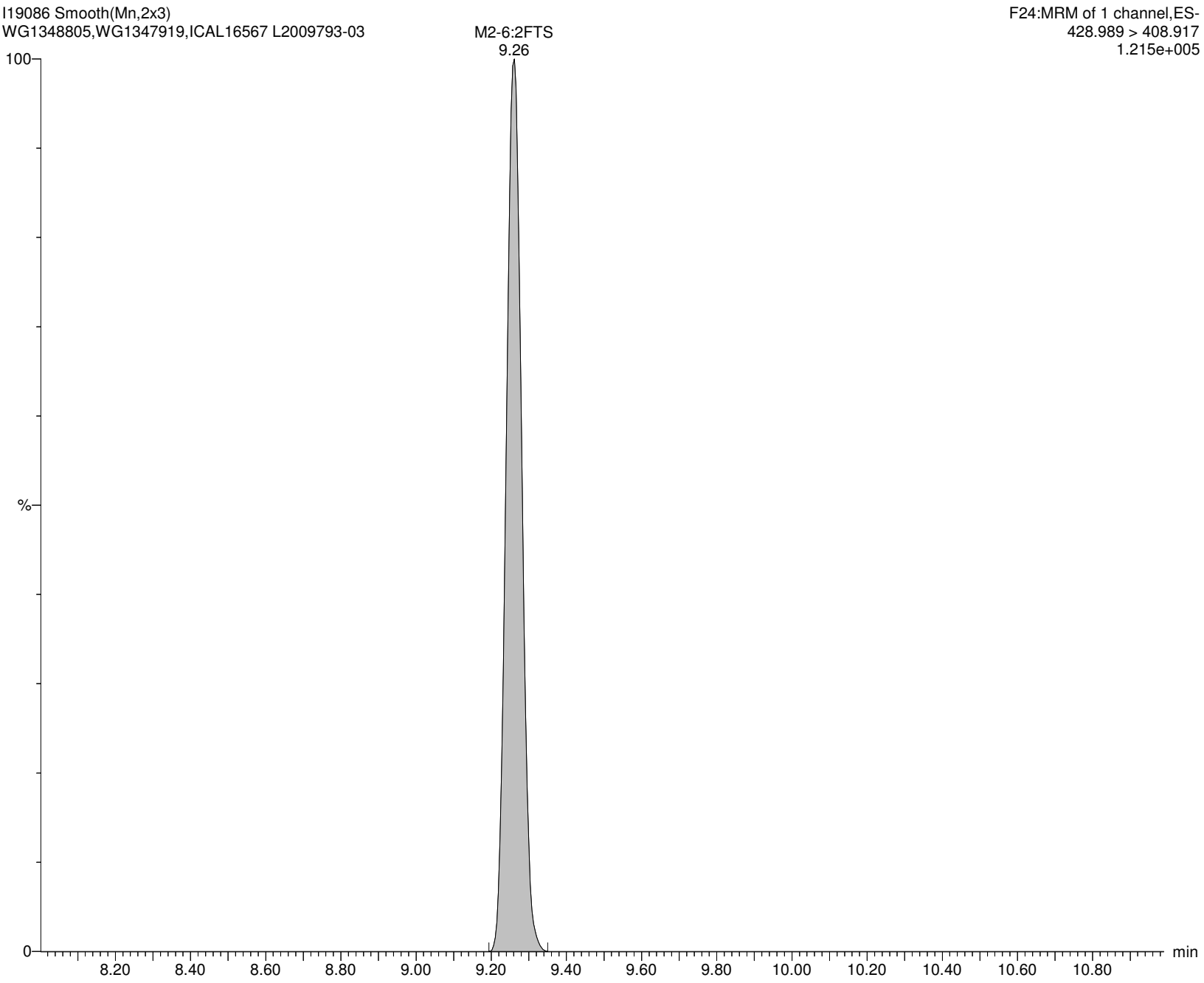

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
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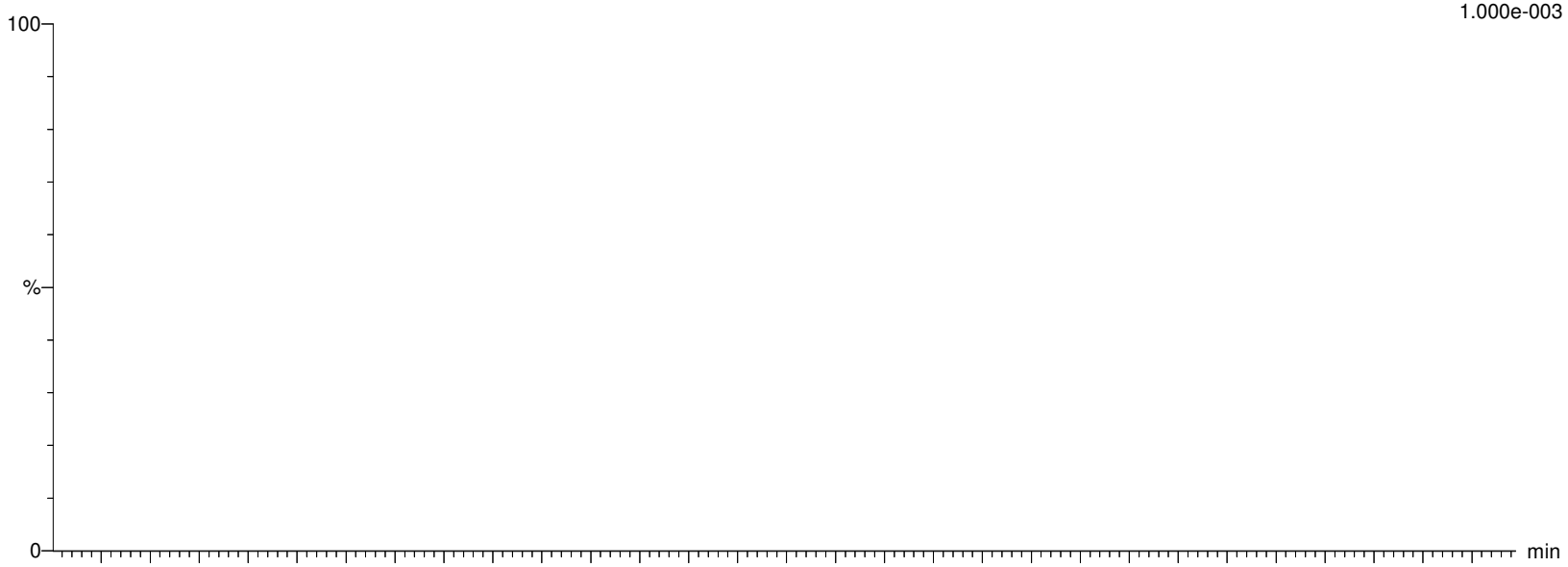

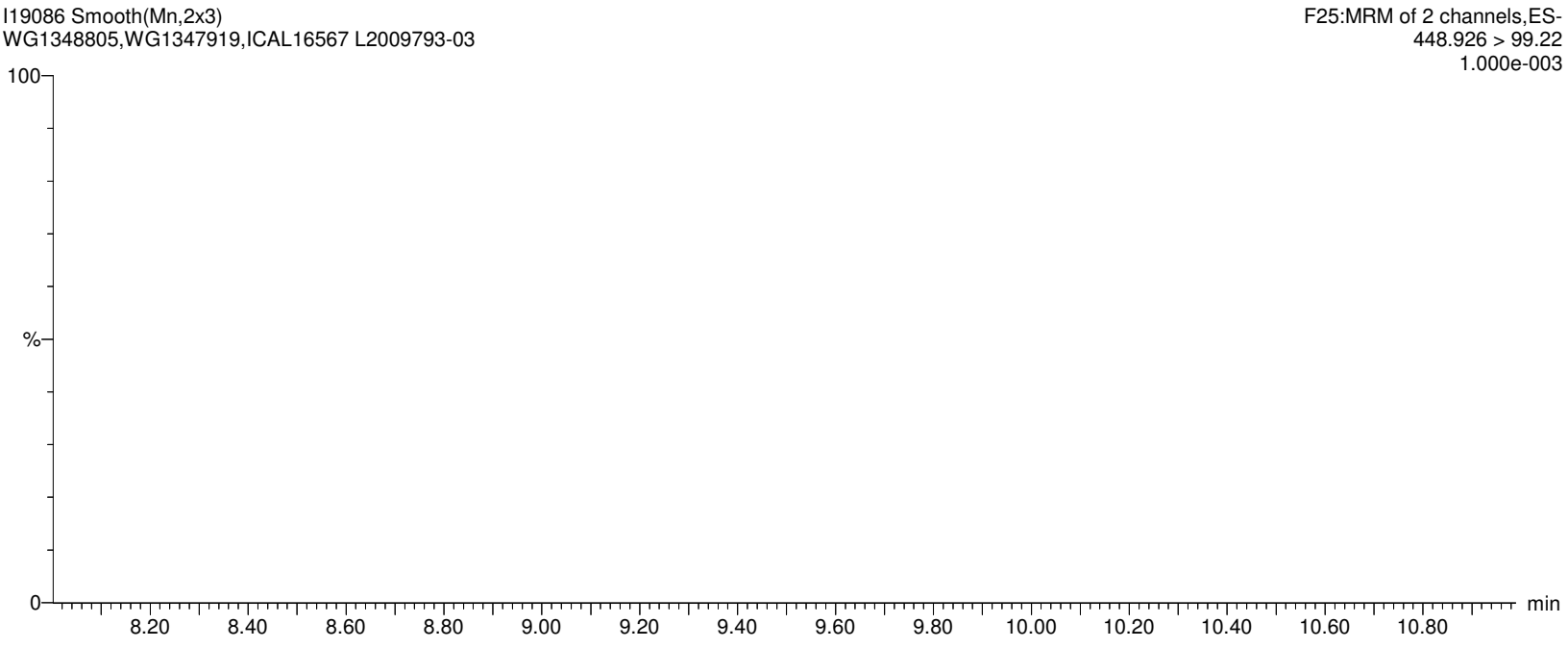

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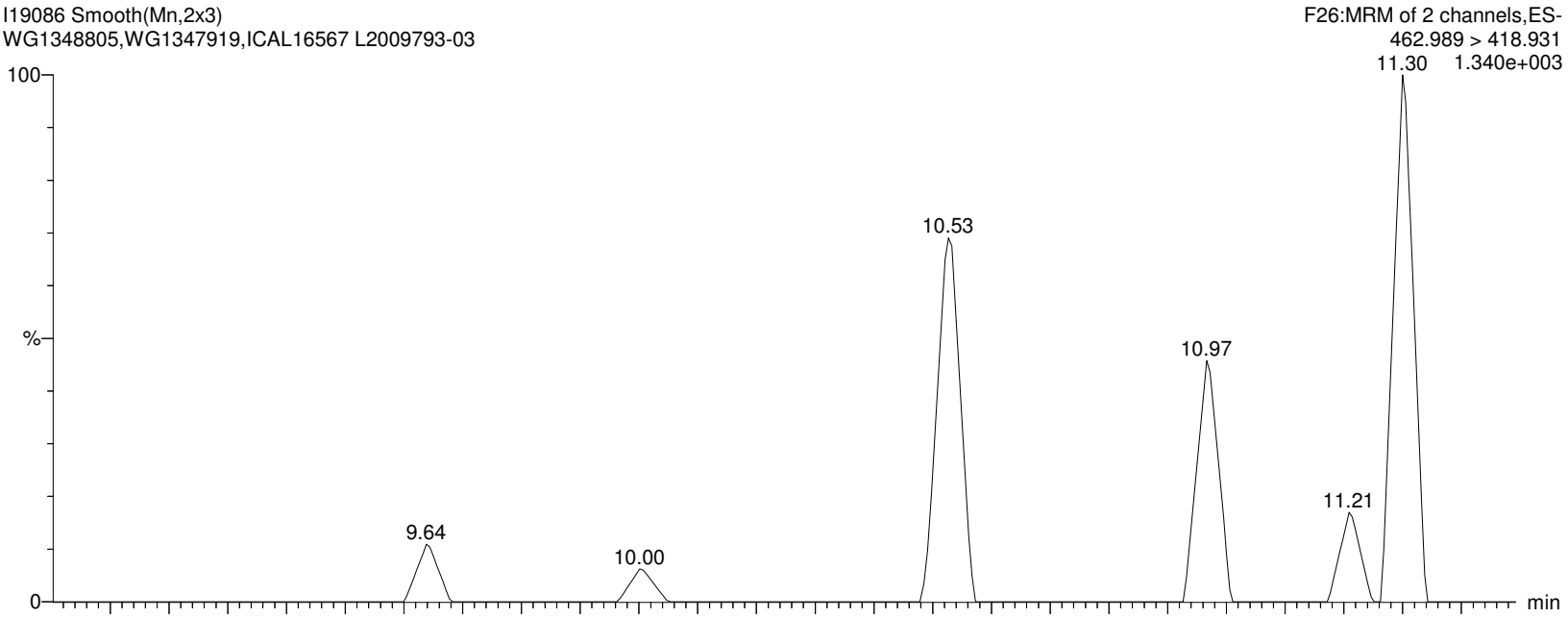

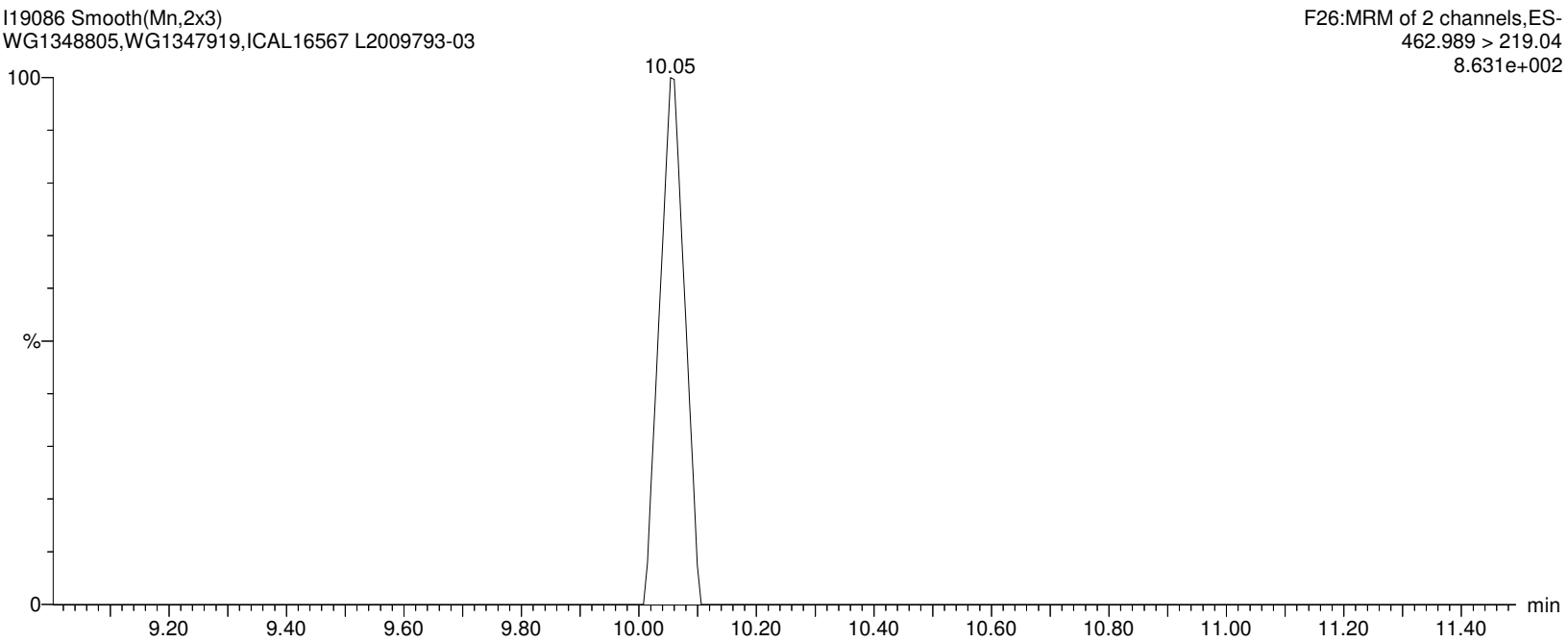

all concentration units in (ng/mL)

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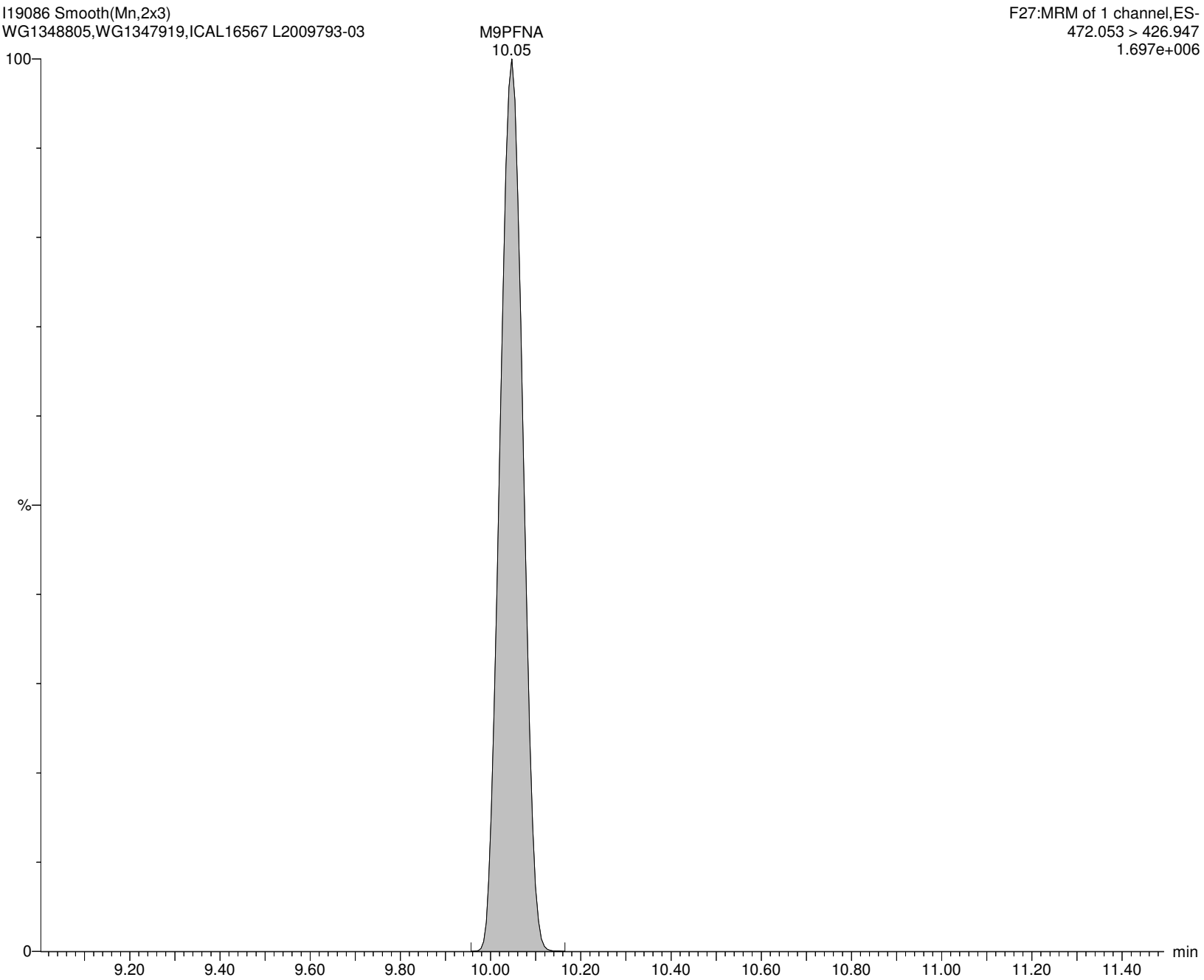

all concentration units in (ng/mL)

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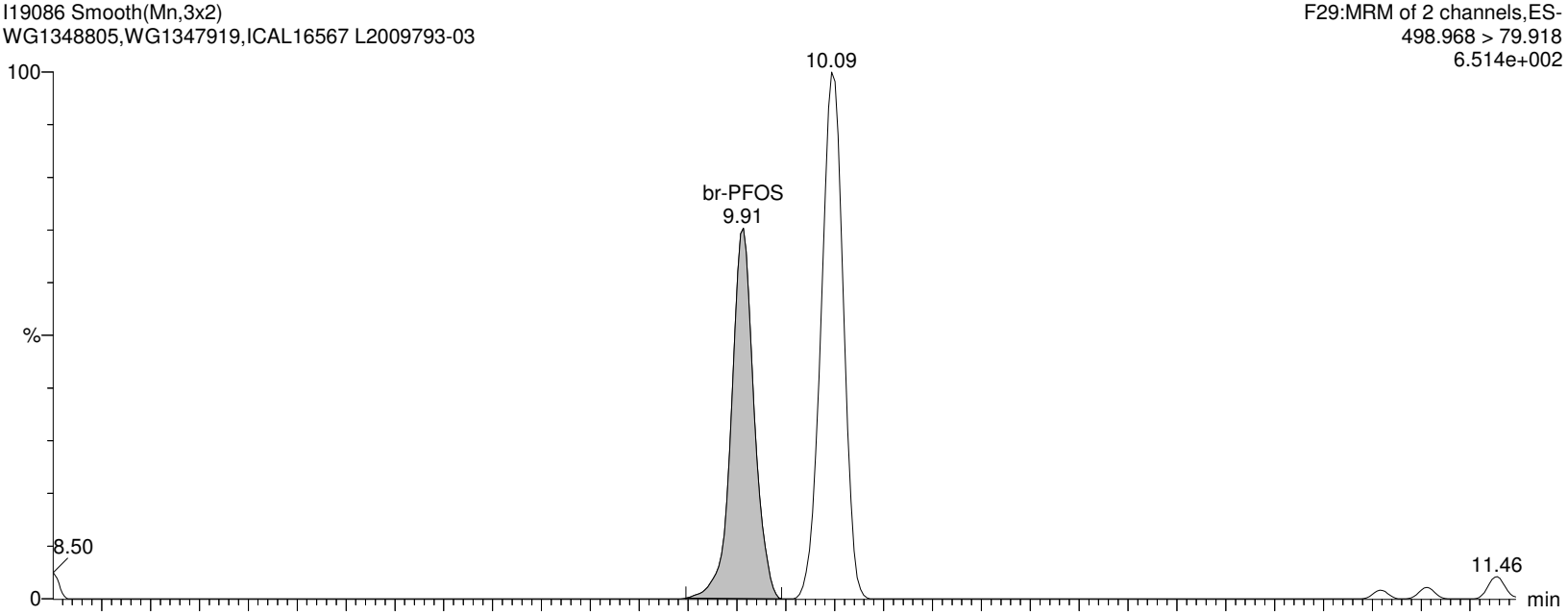

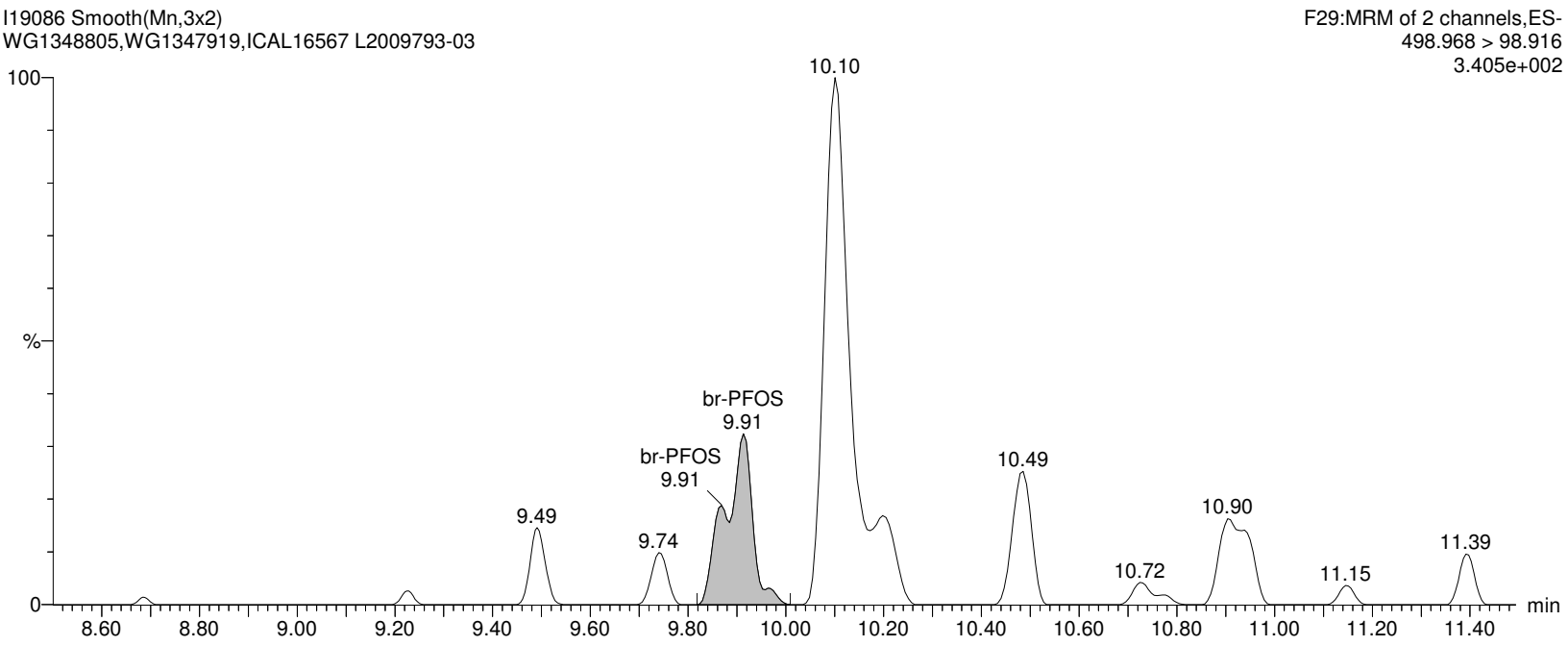

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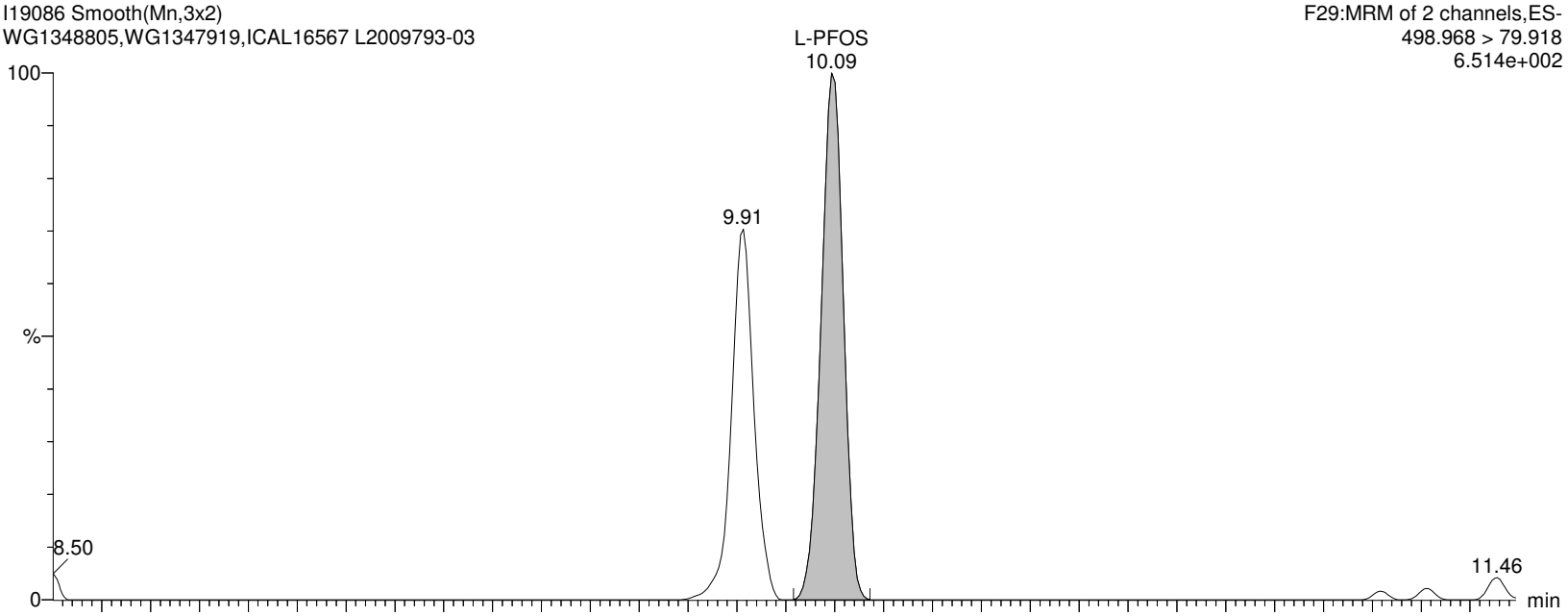
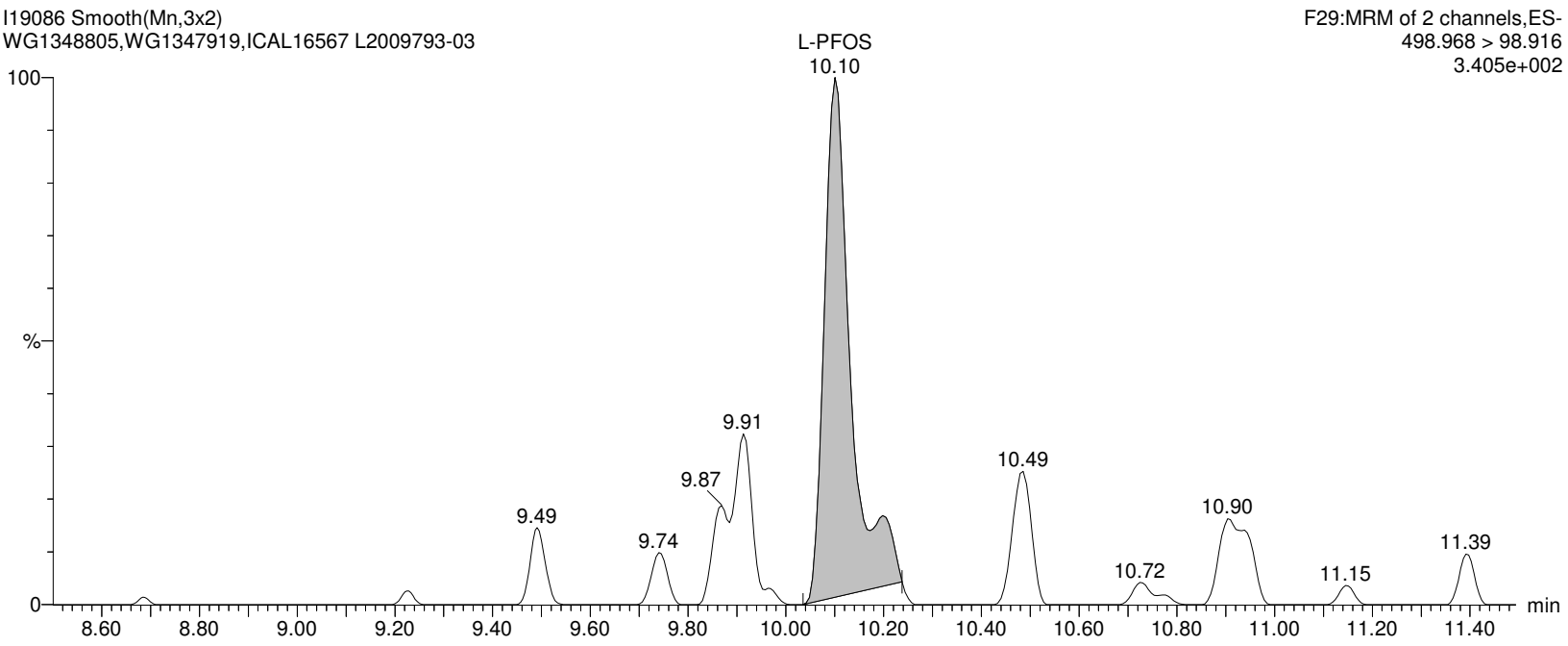
L-PFOS





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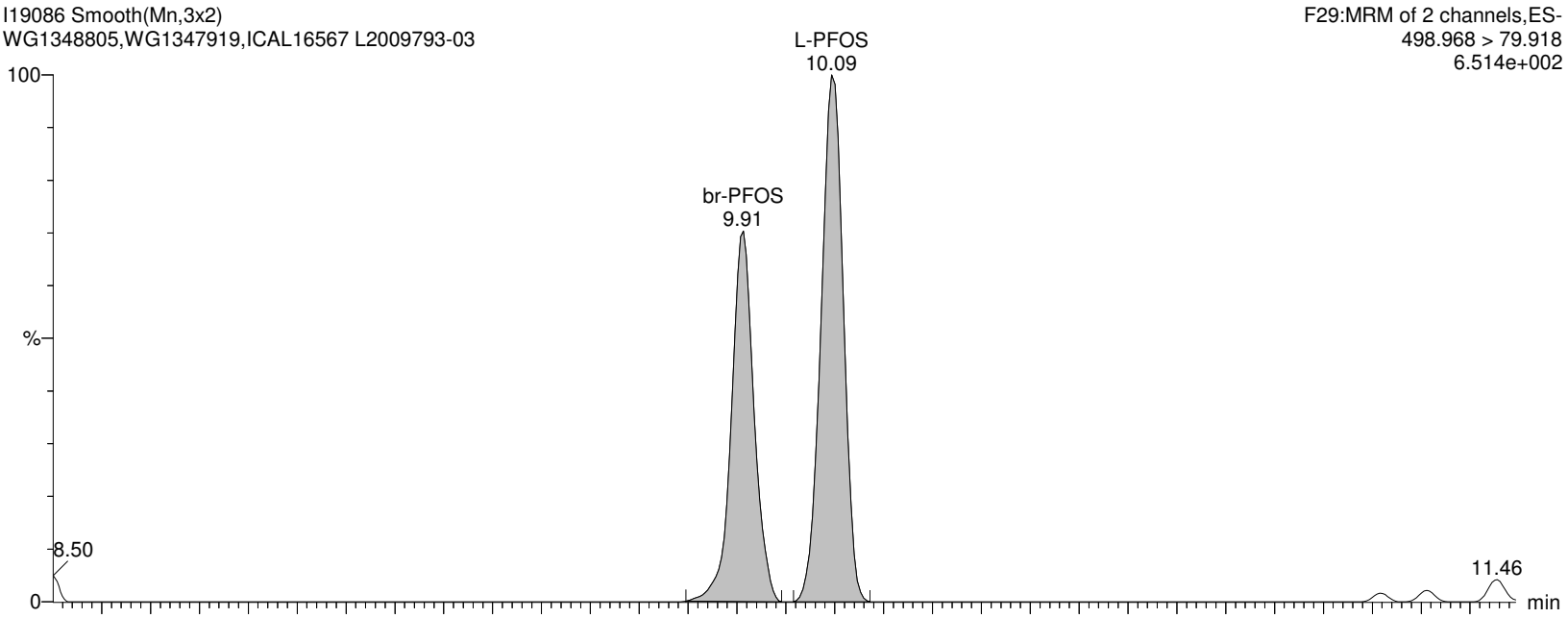

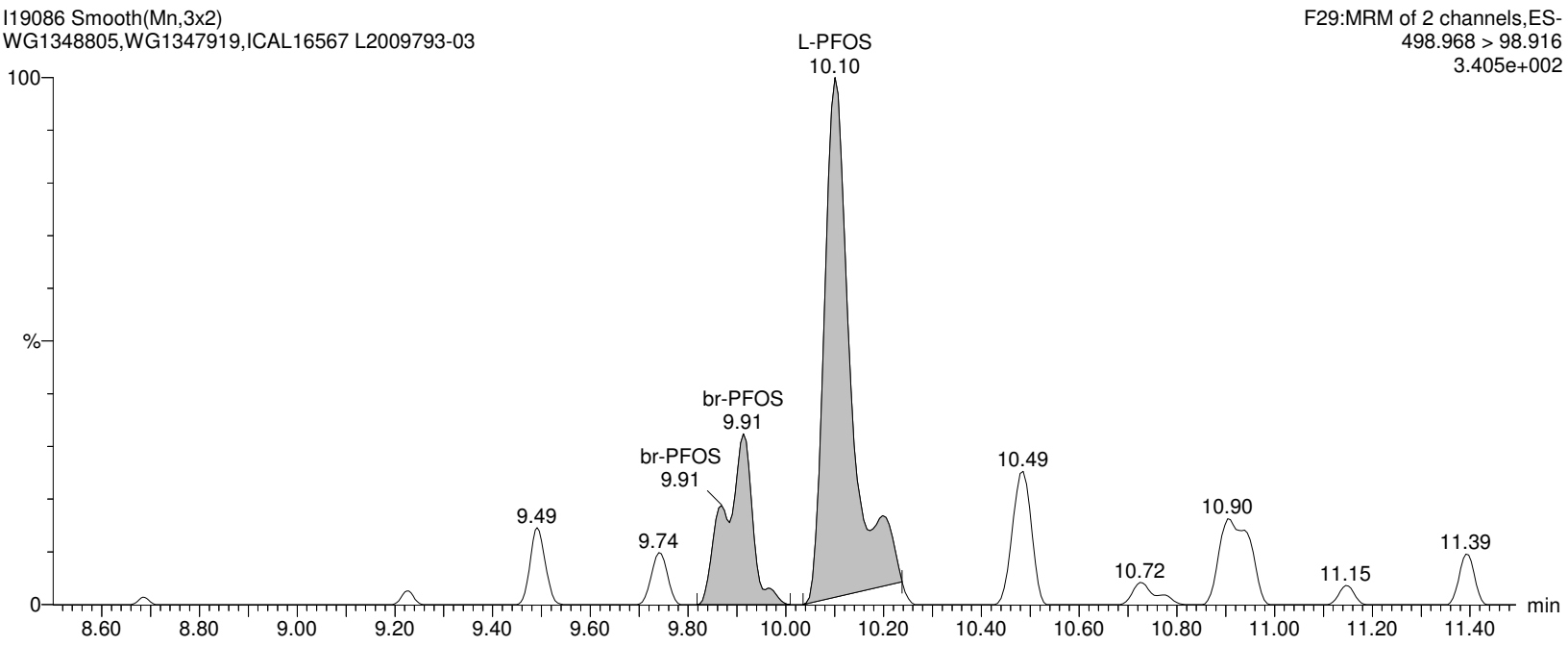

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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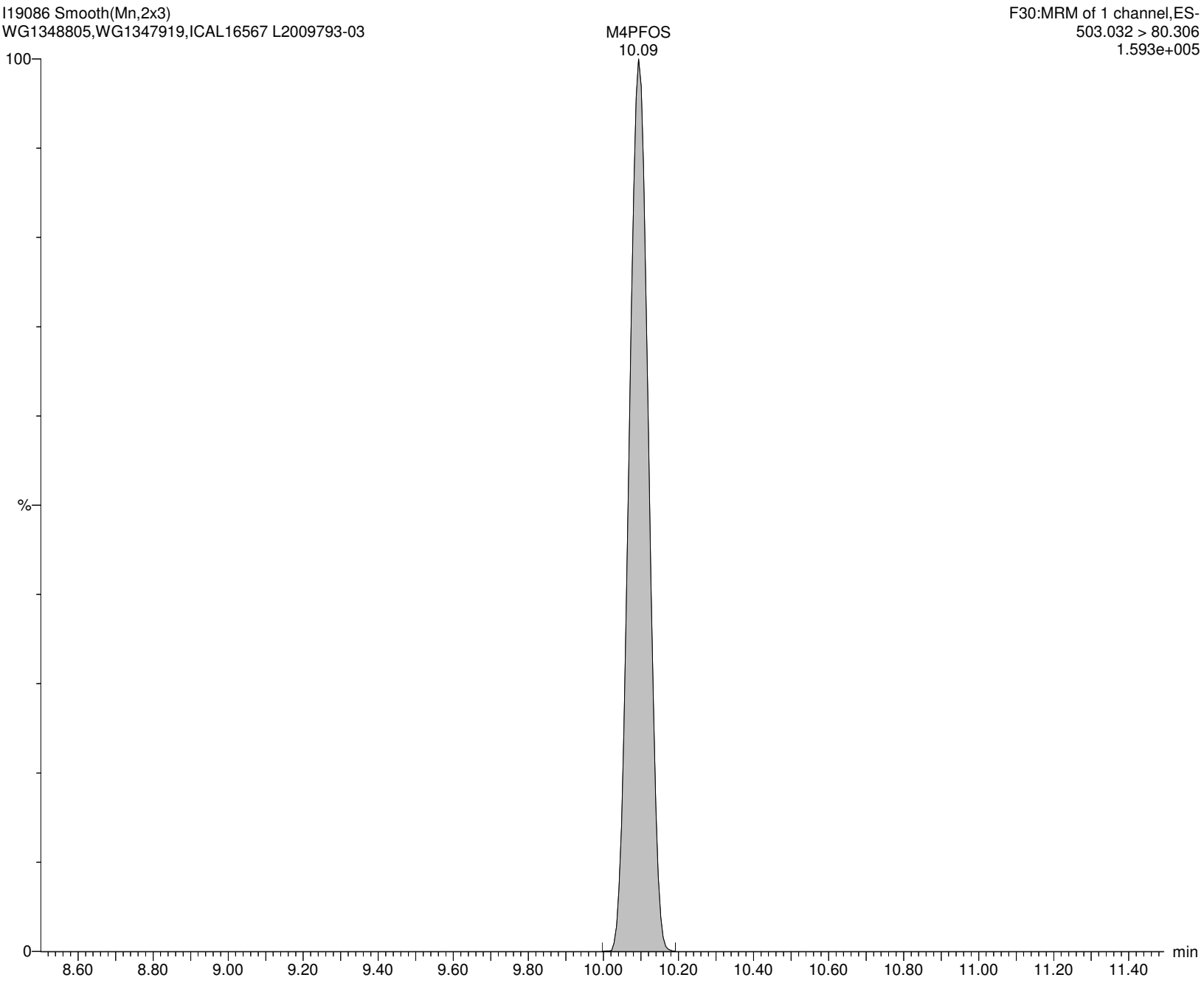
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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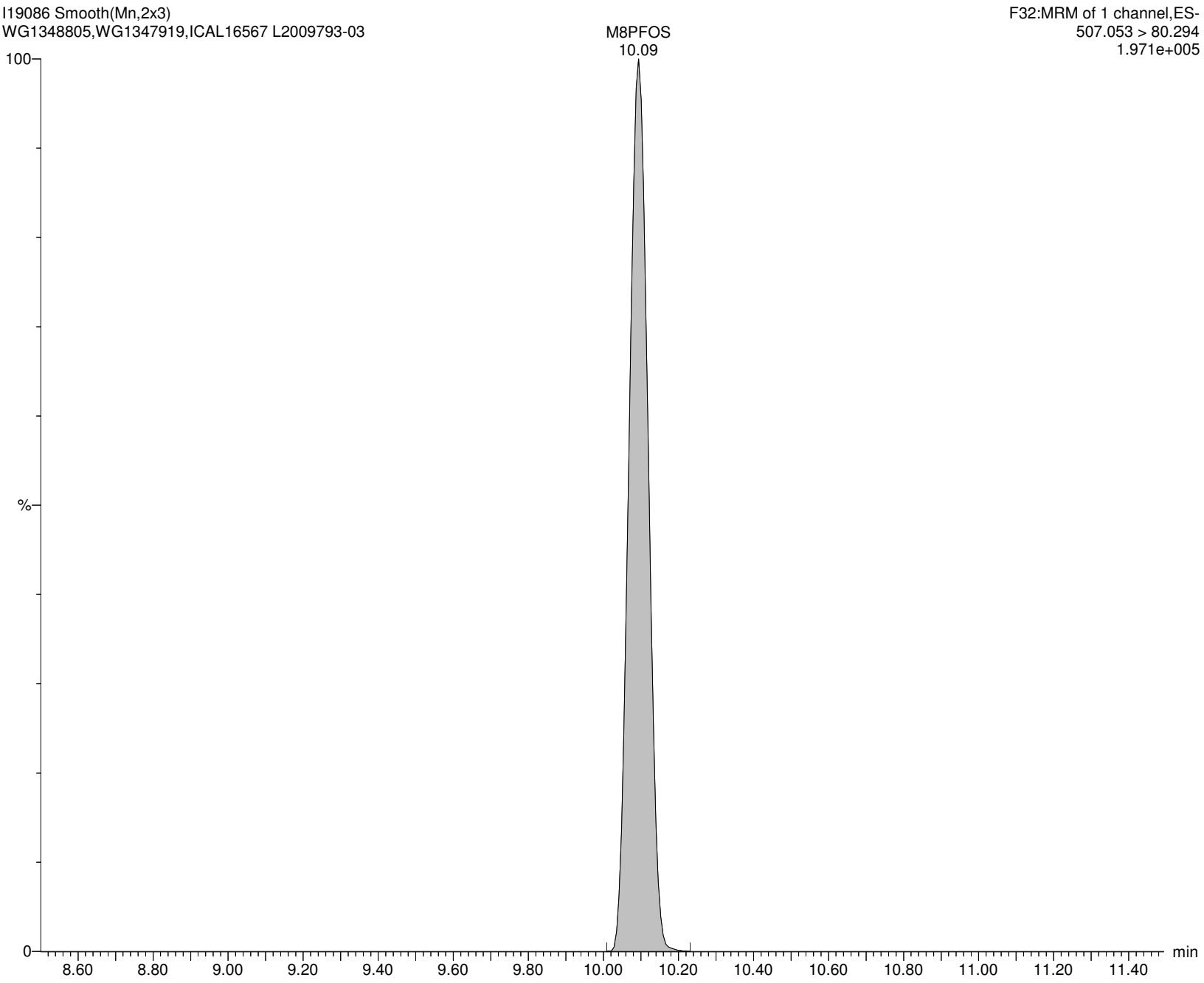

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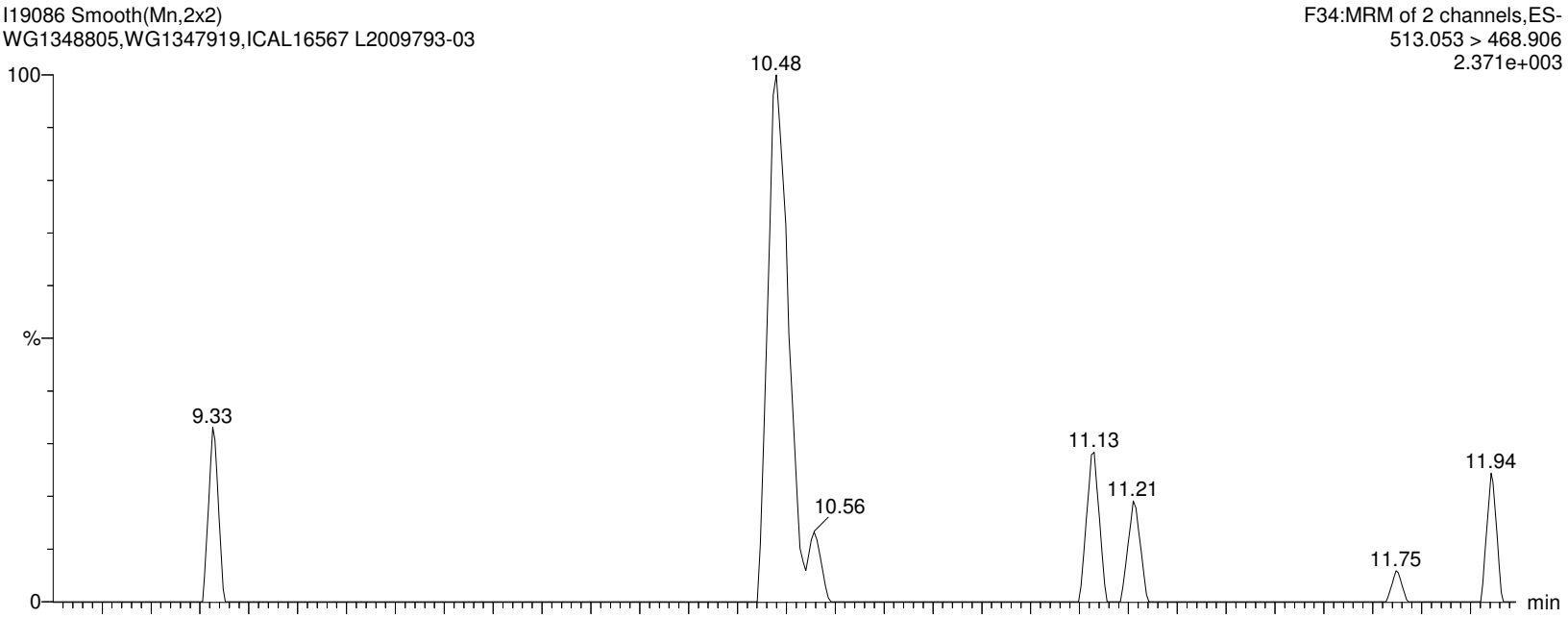

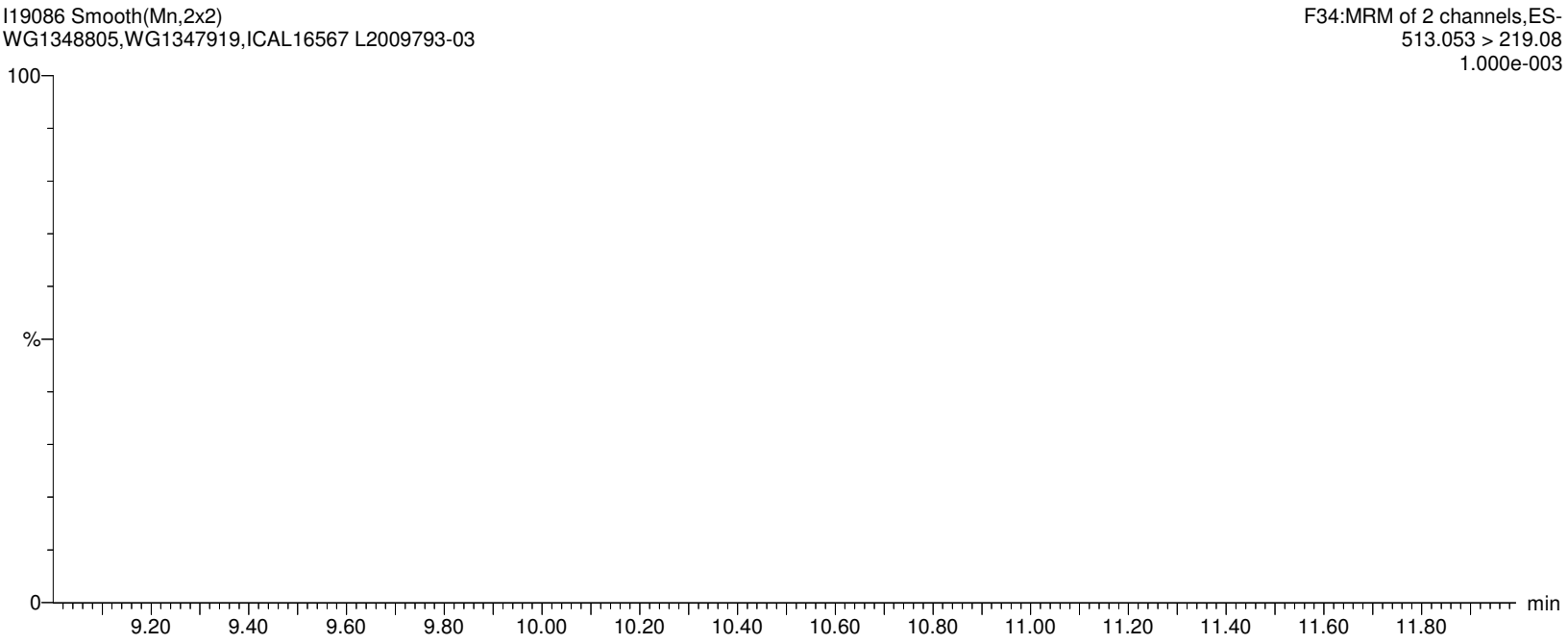

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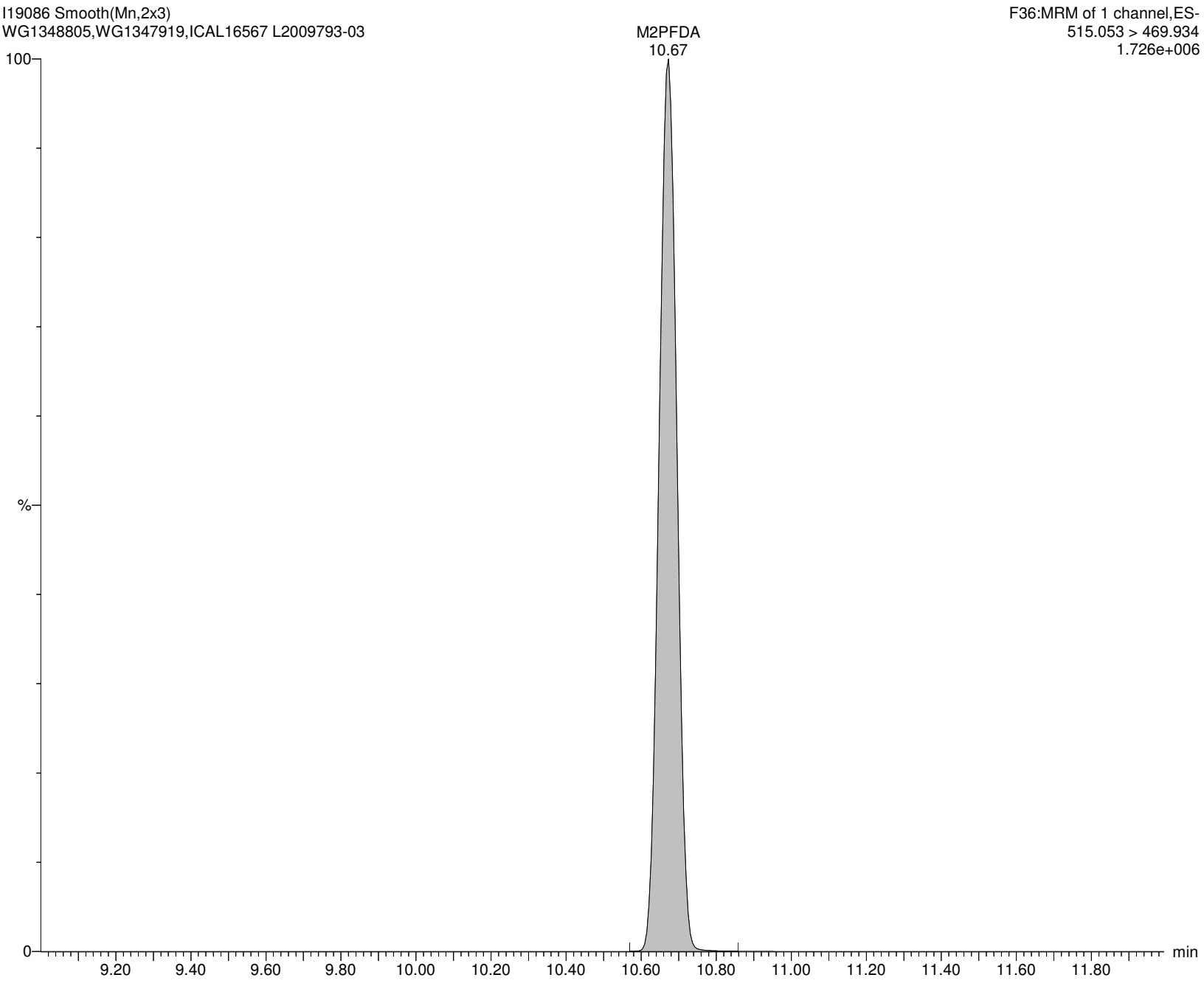

all concentration units in (ng/mL)

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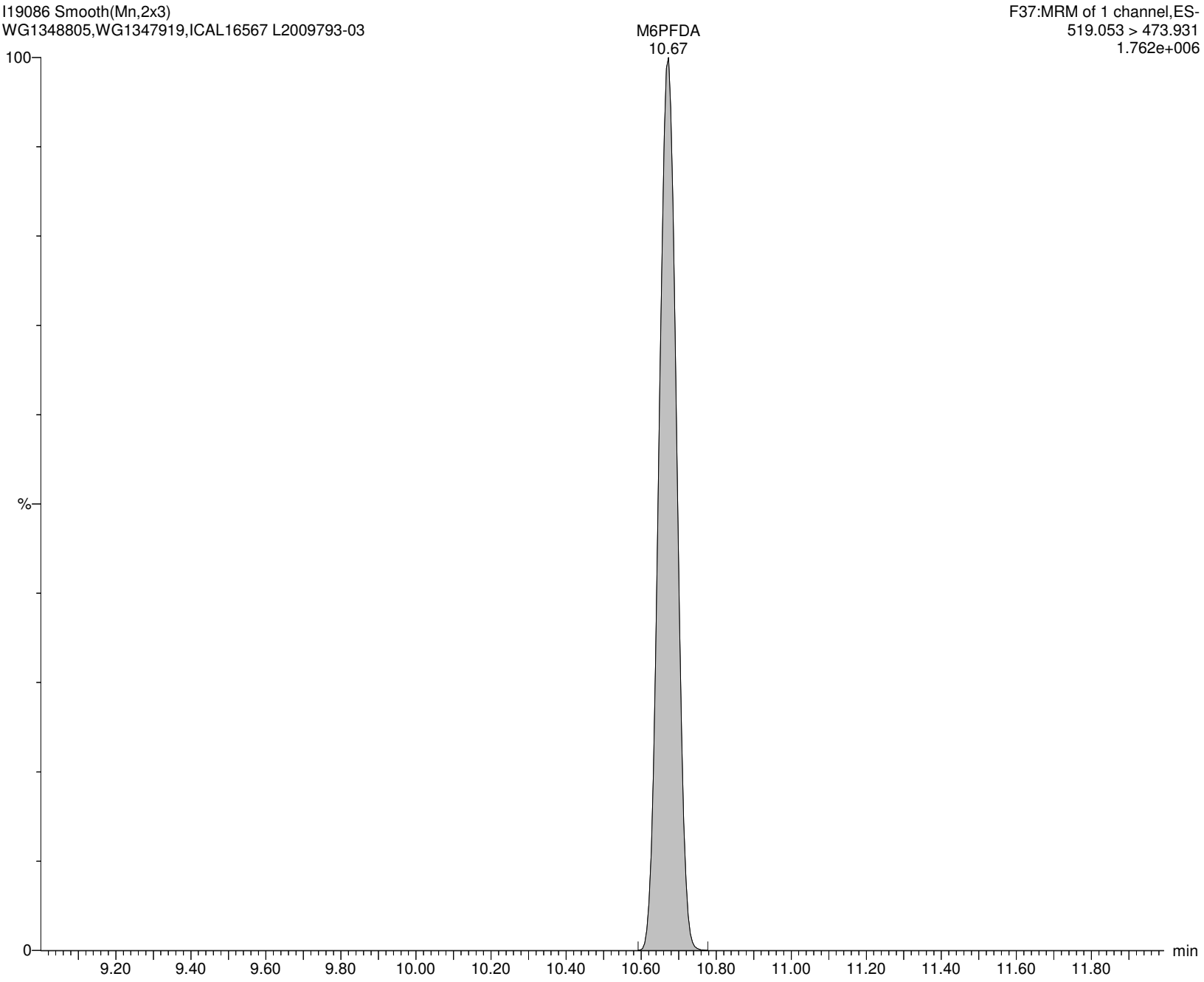

all concentration units in (ng/mL)

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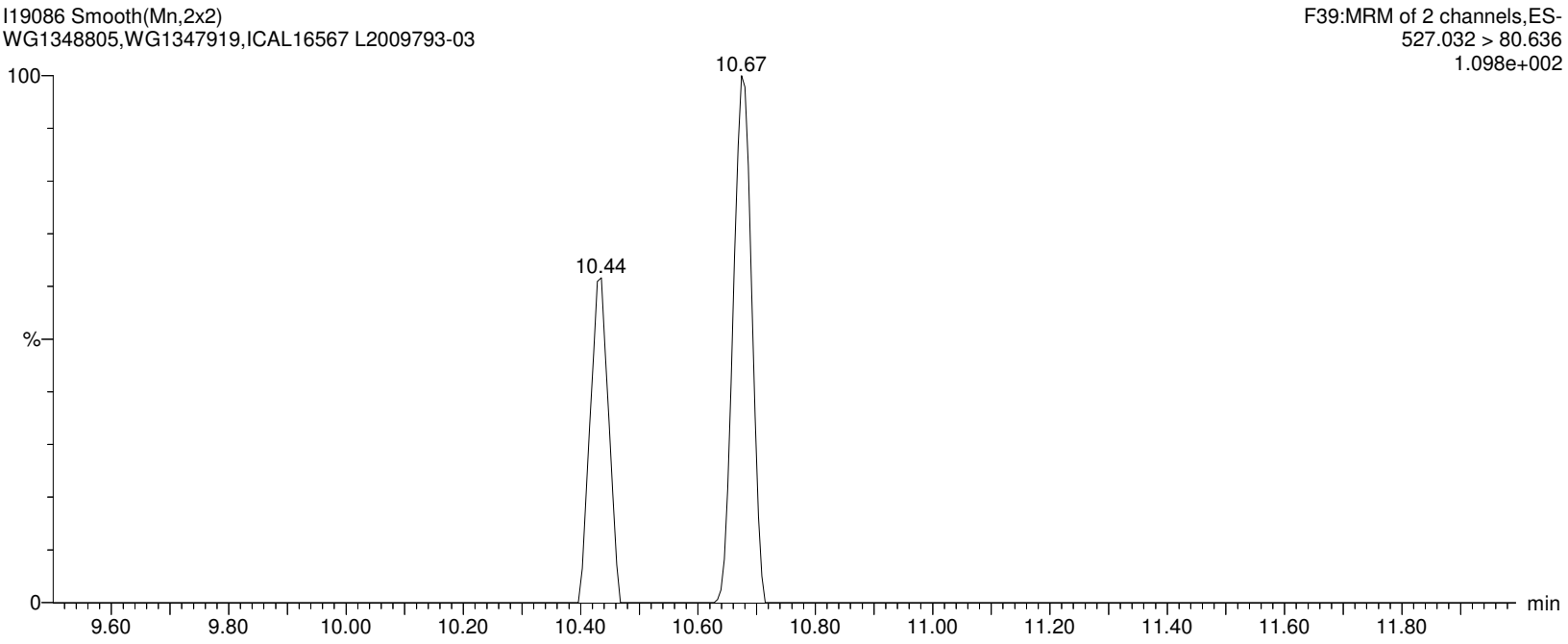
8:2FTS



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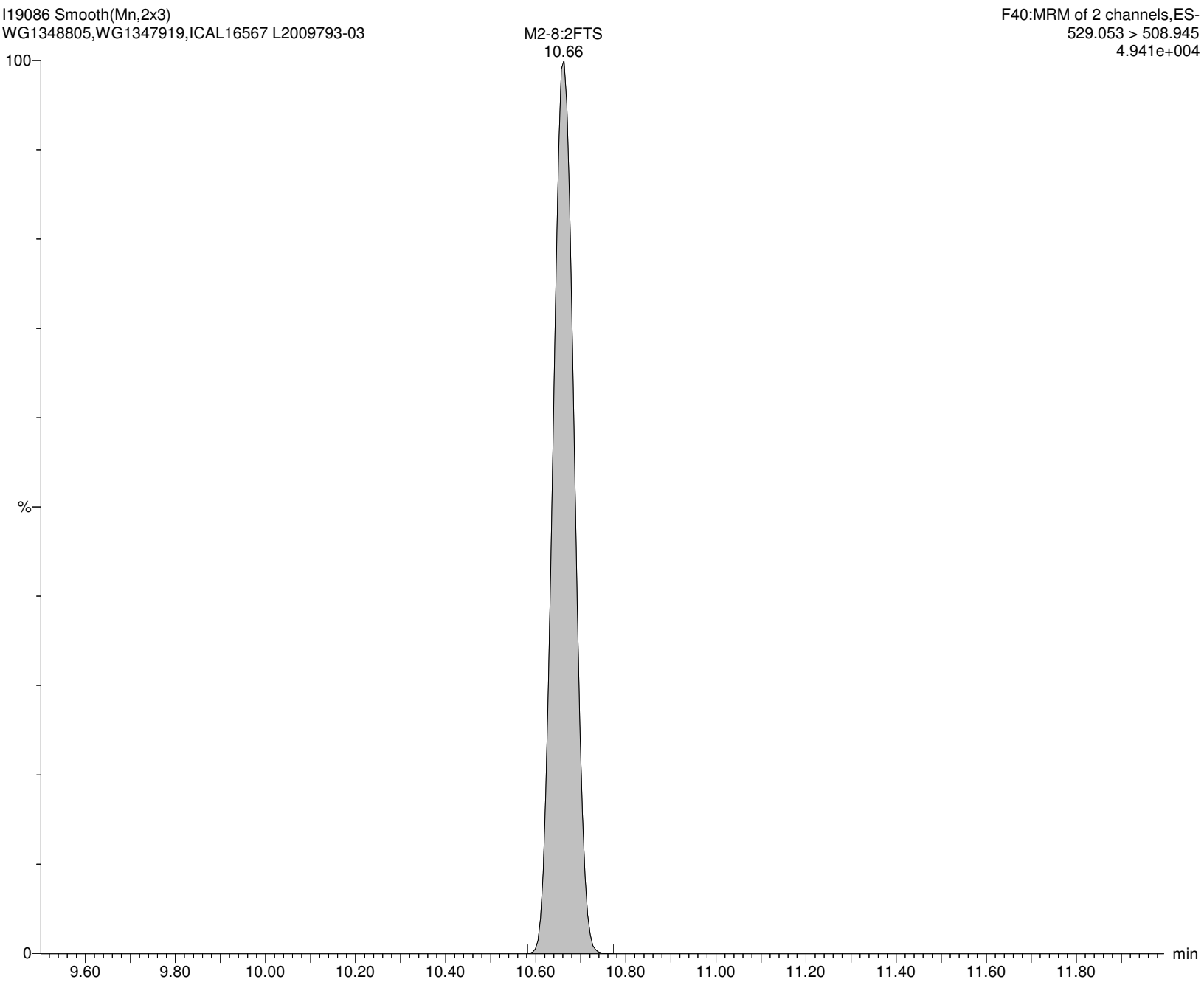
M2-8:2FTS



all concentration units in (ng/mL)

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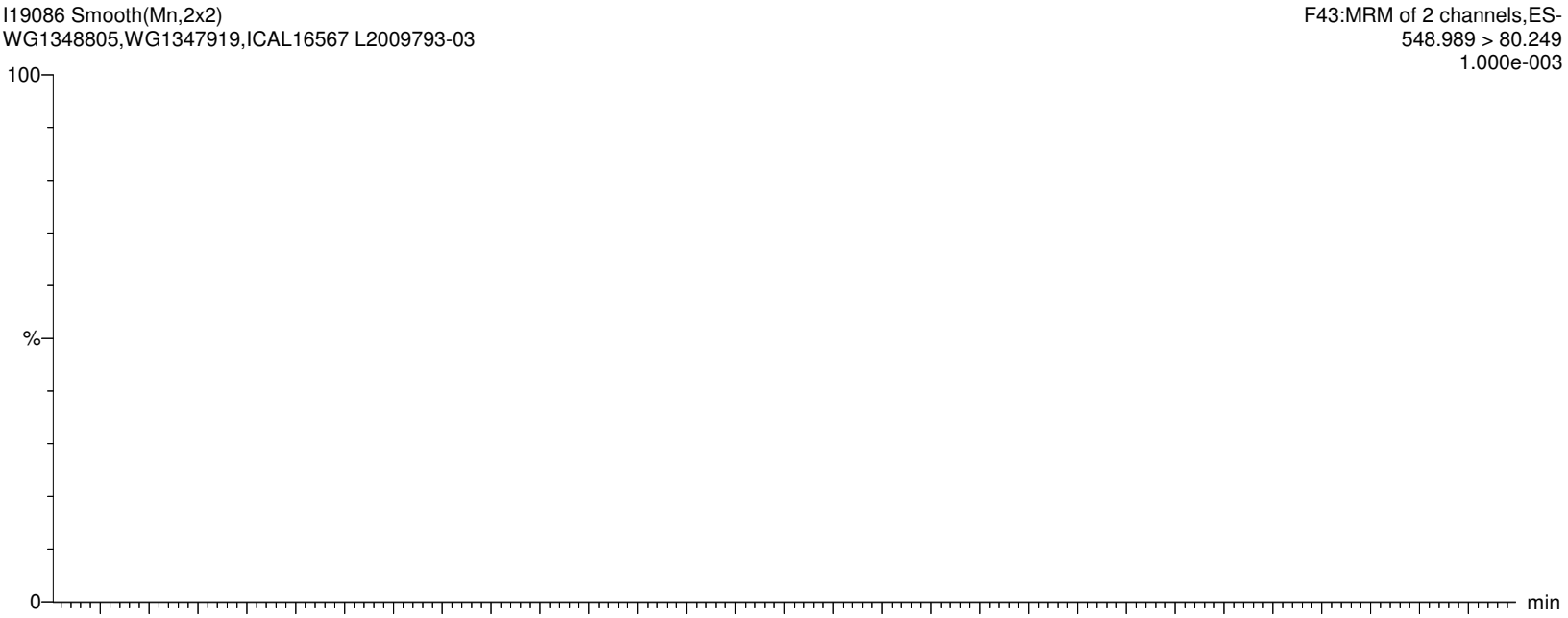

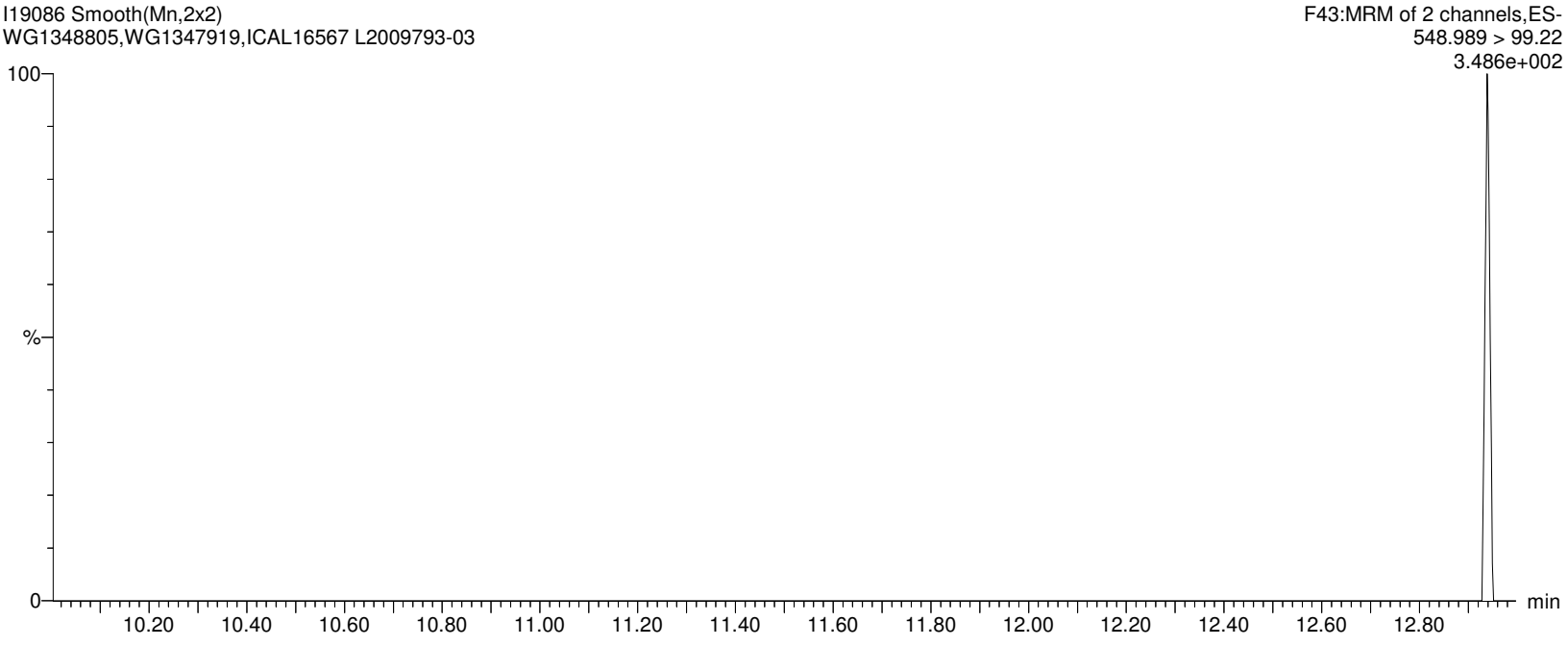

all concentration units in (ng/mL)

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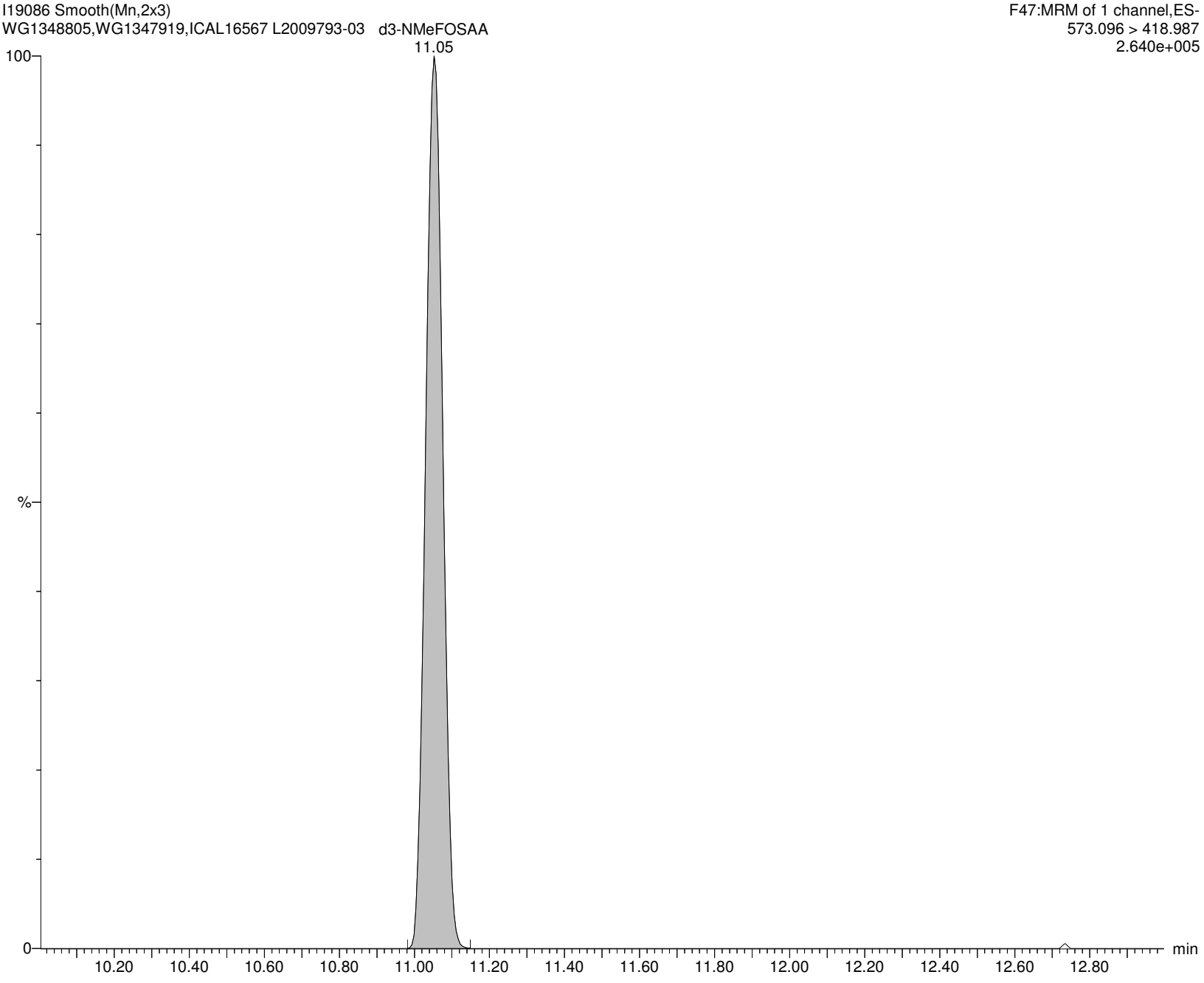
d3-NMeFOSAA



all concentration units in (ng/mL)

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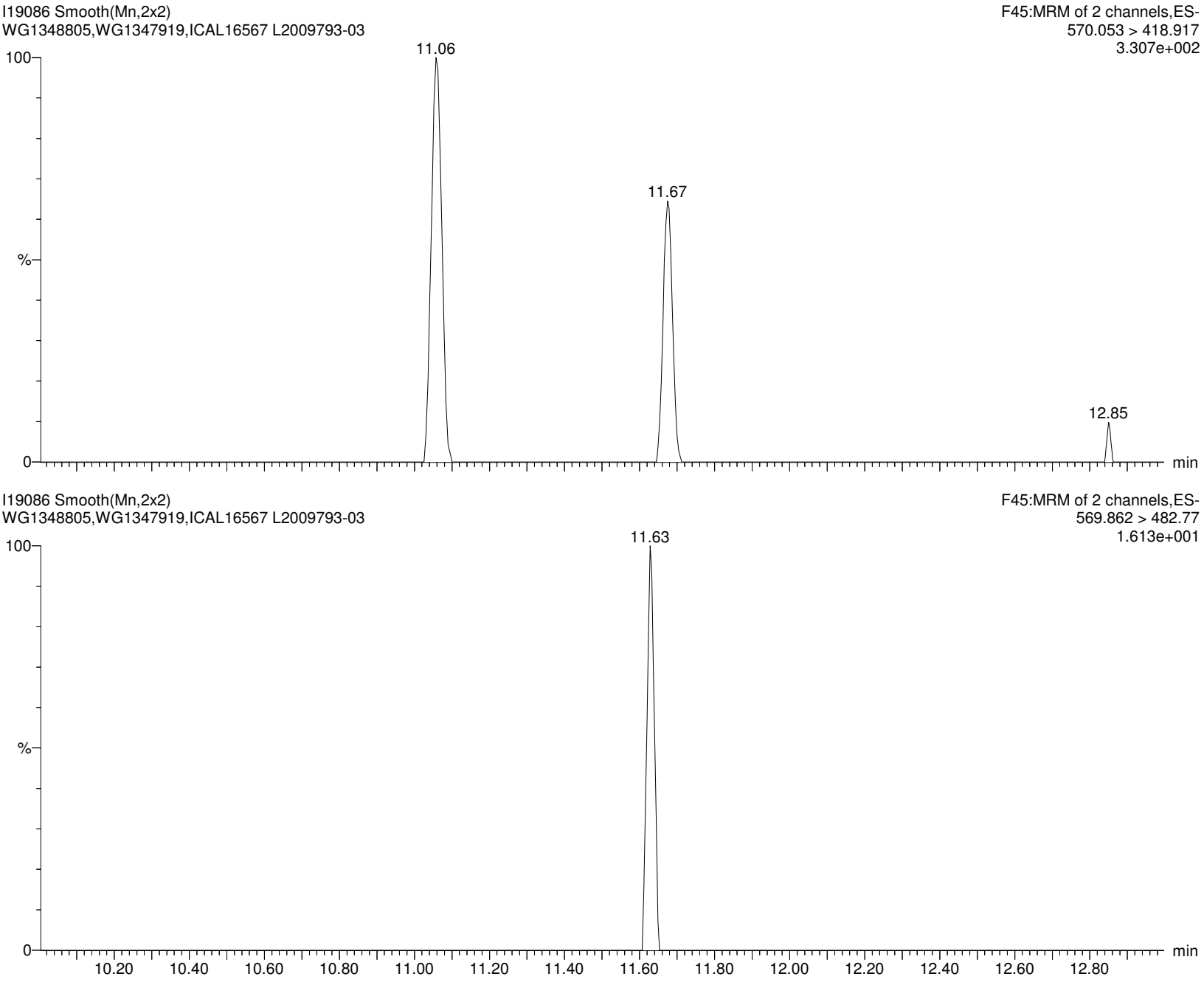
NMeFOSAA



all concentration units in (ng/mL)

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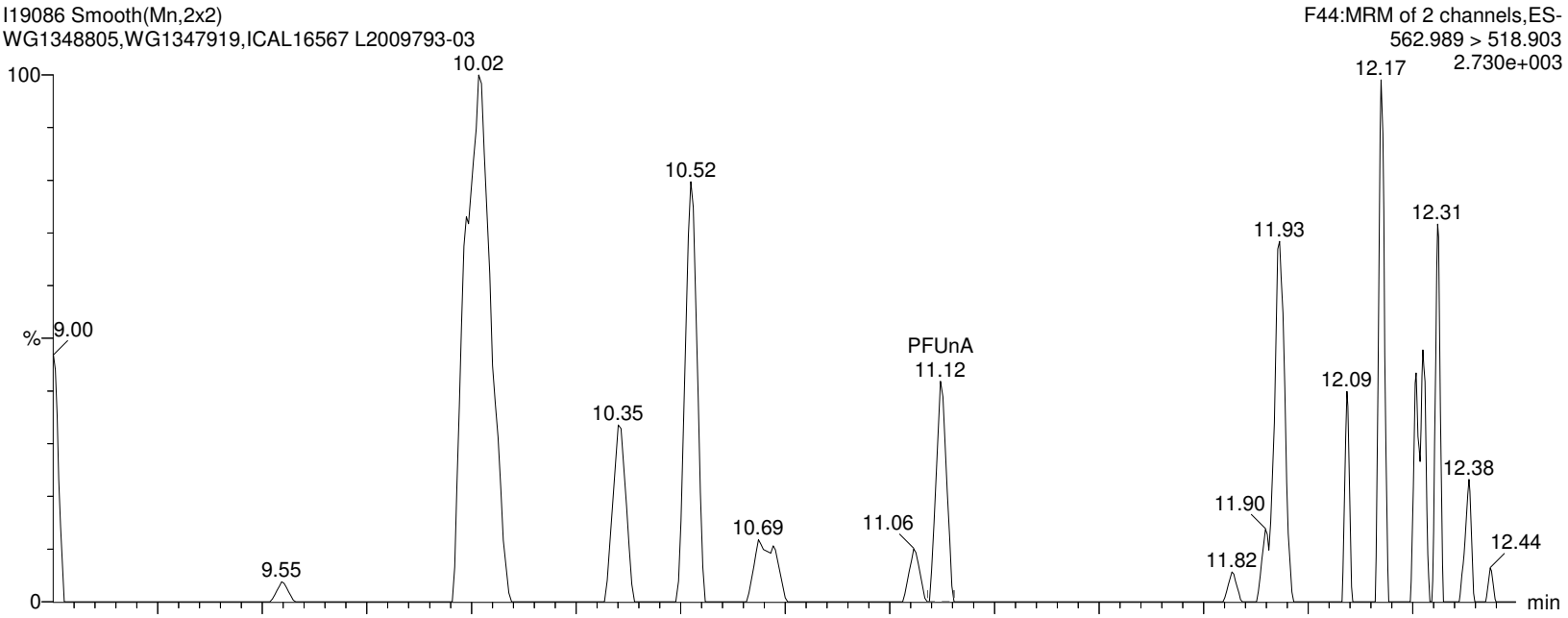

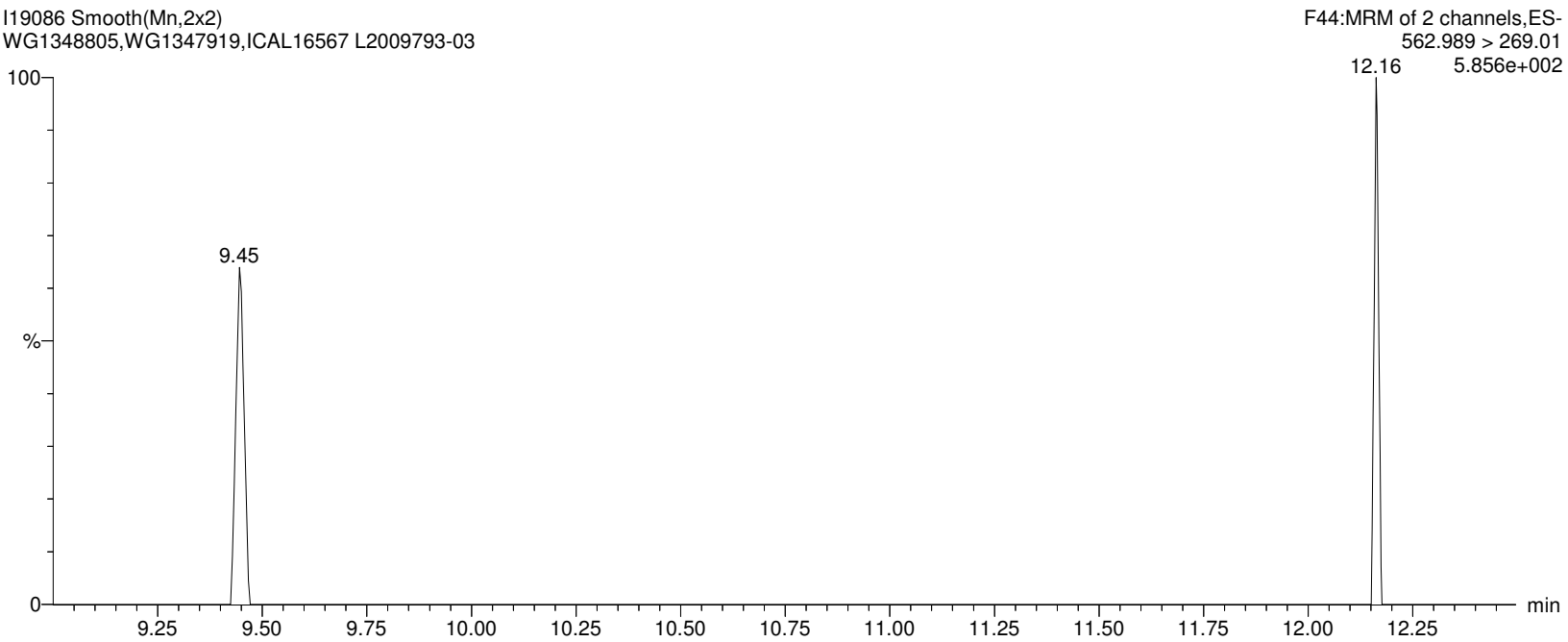

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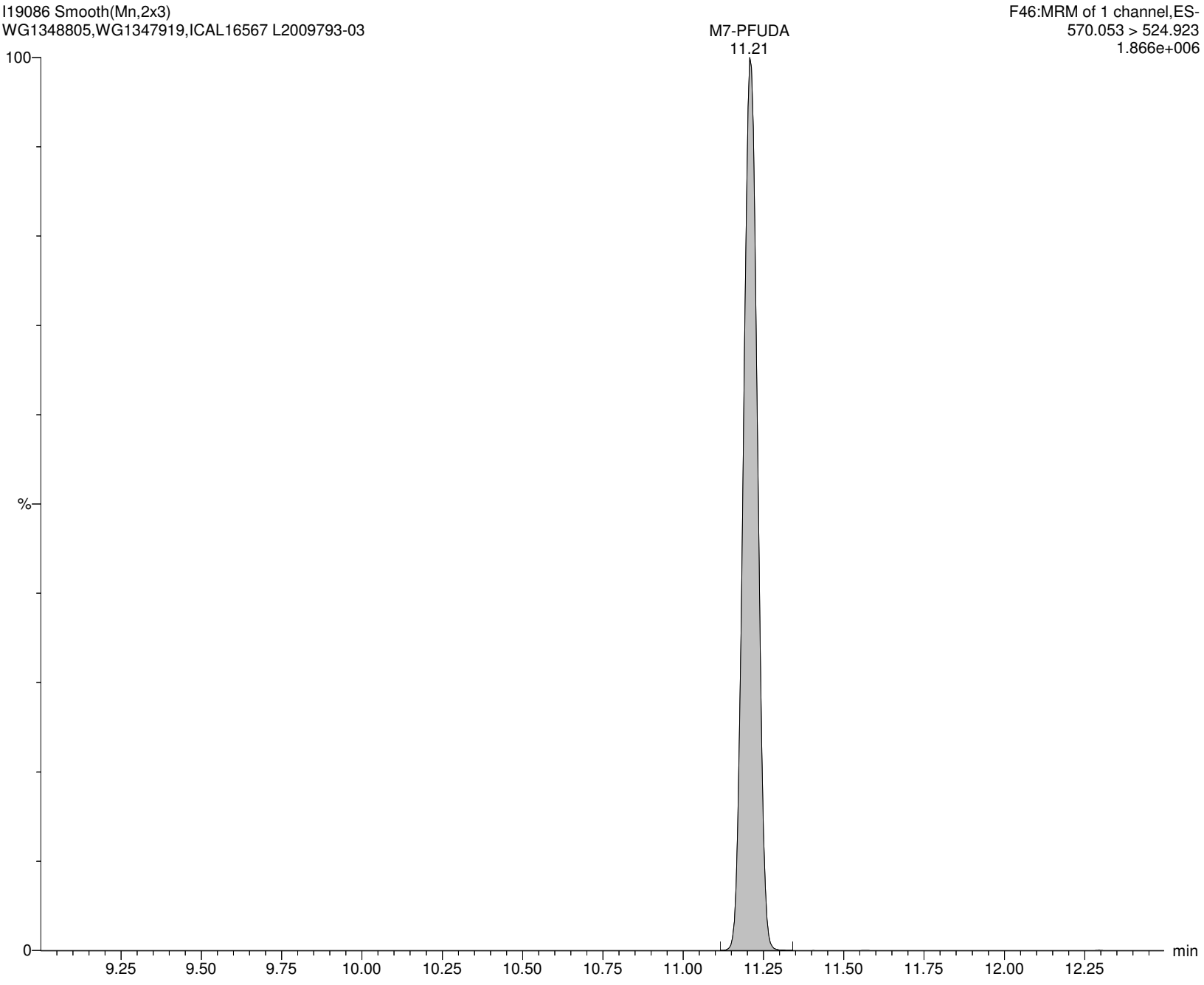

all concentration units in (ng/mL)

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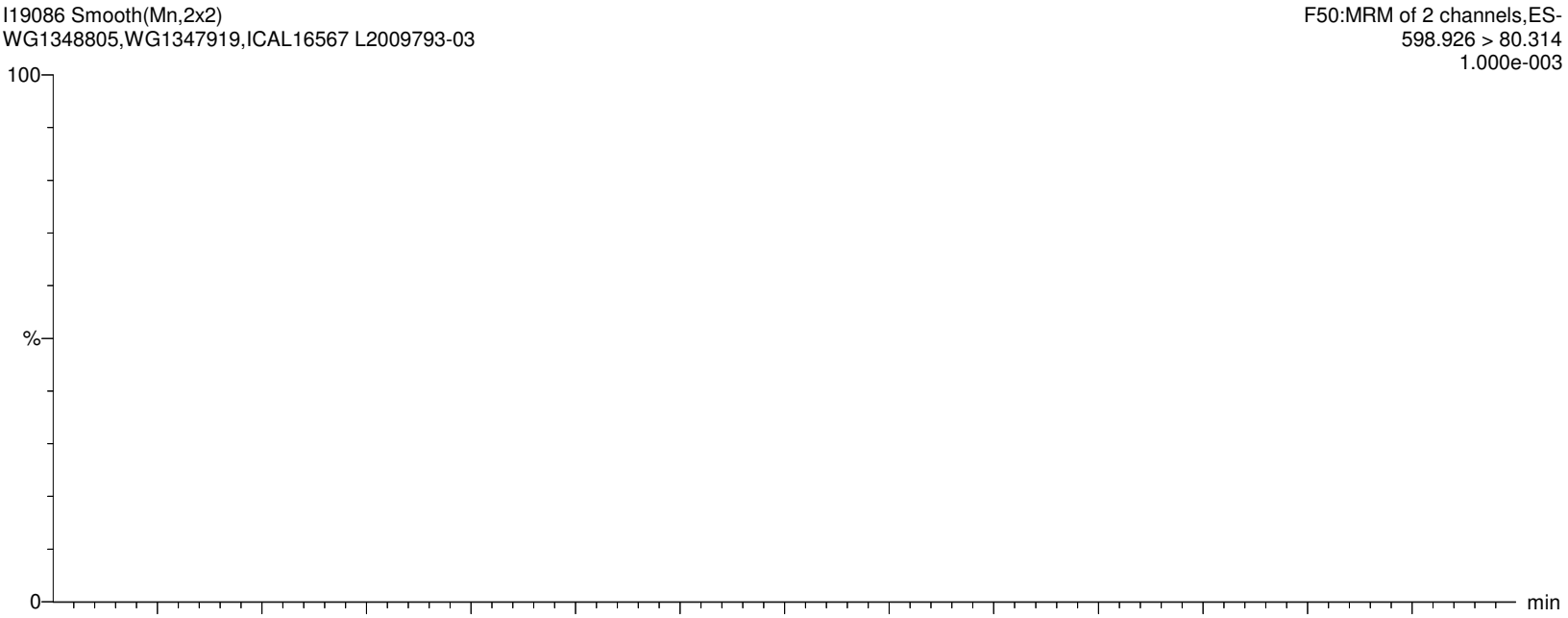

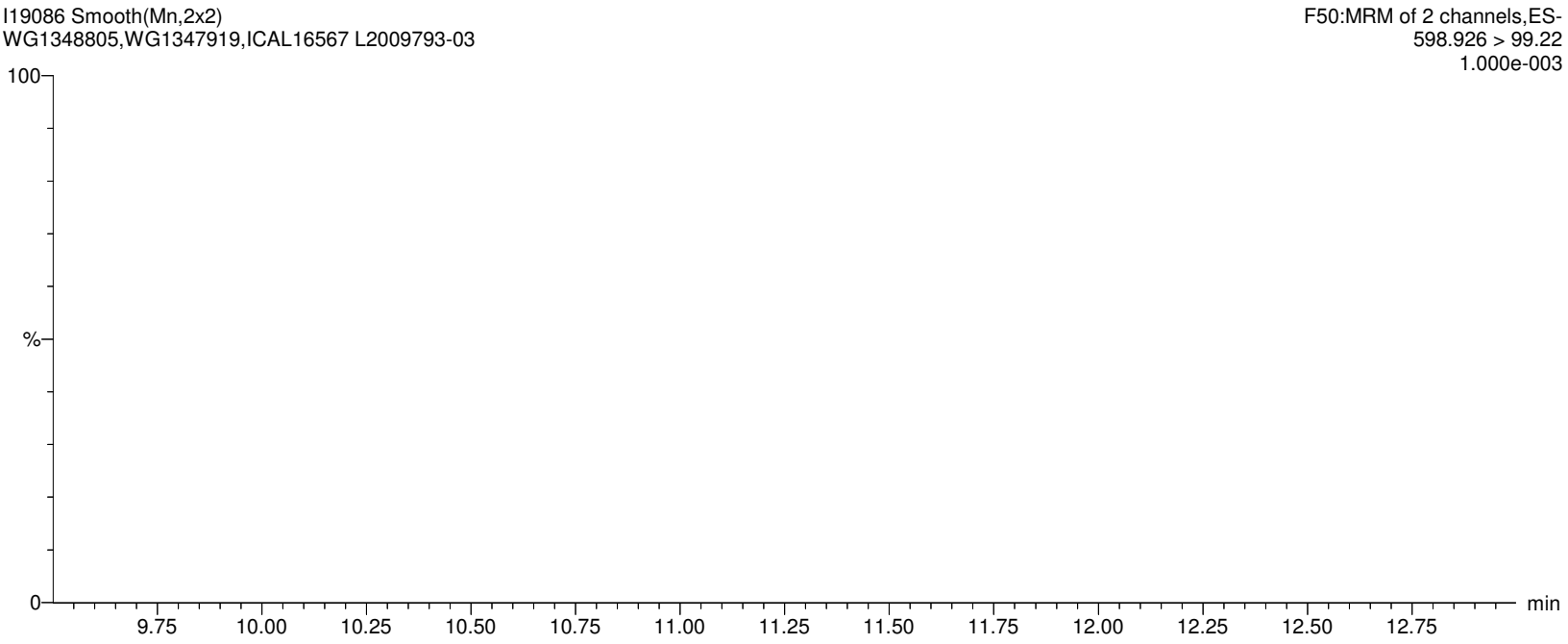

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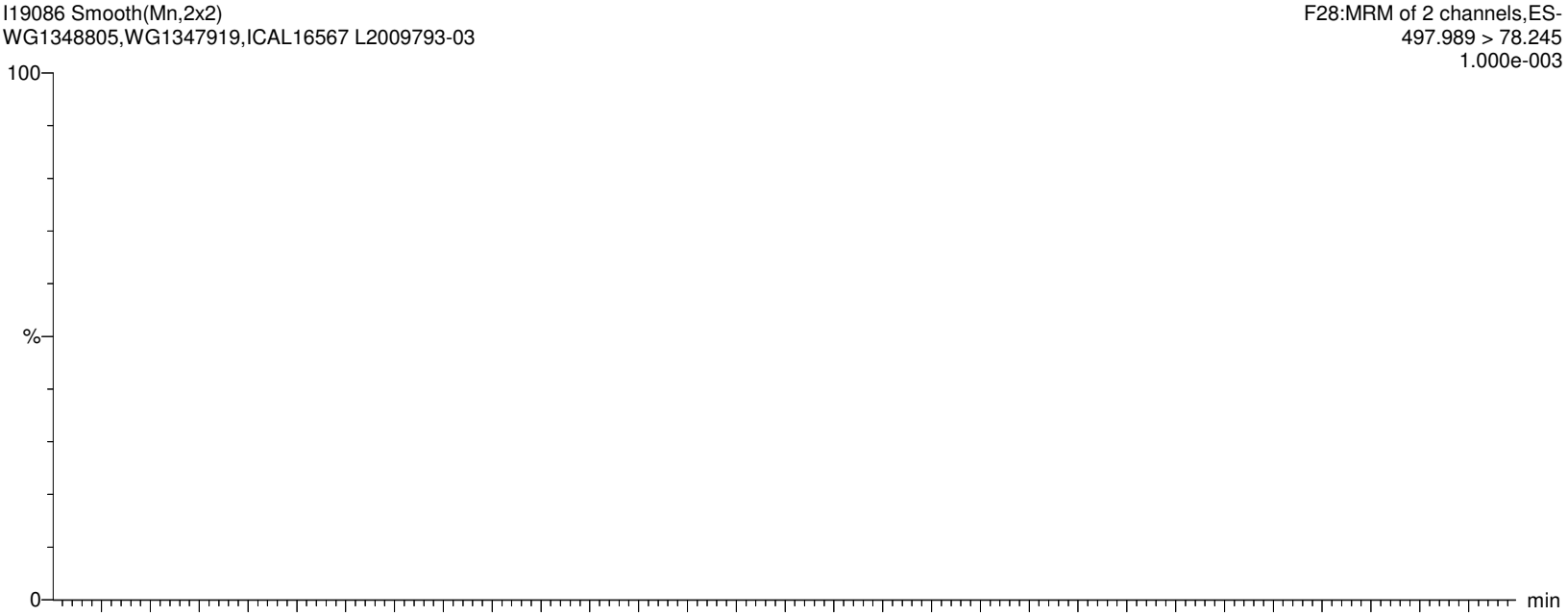

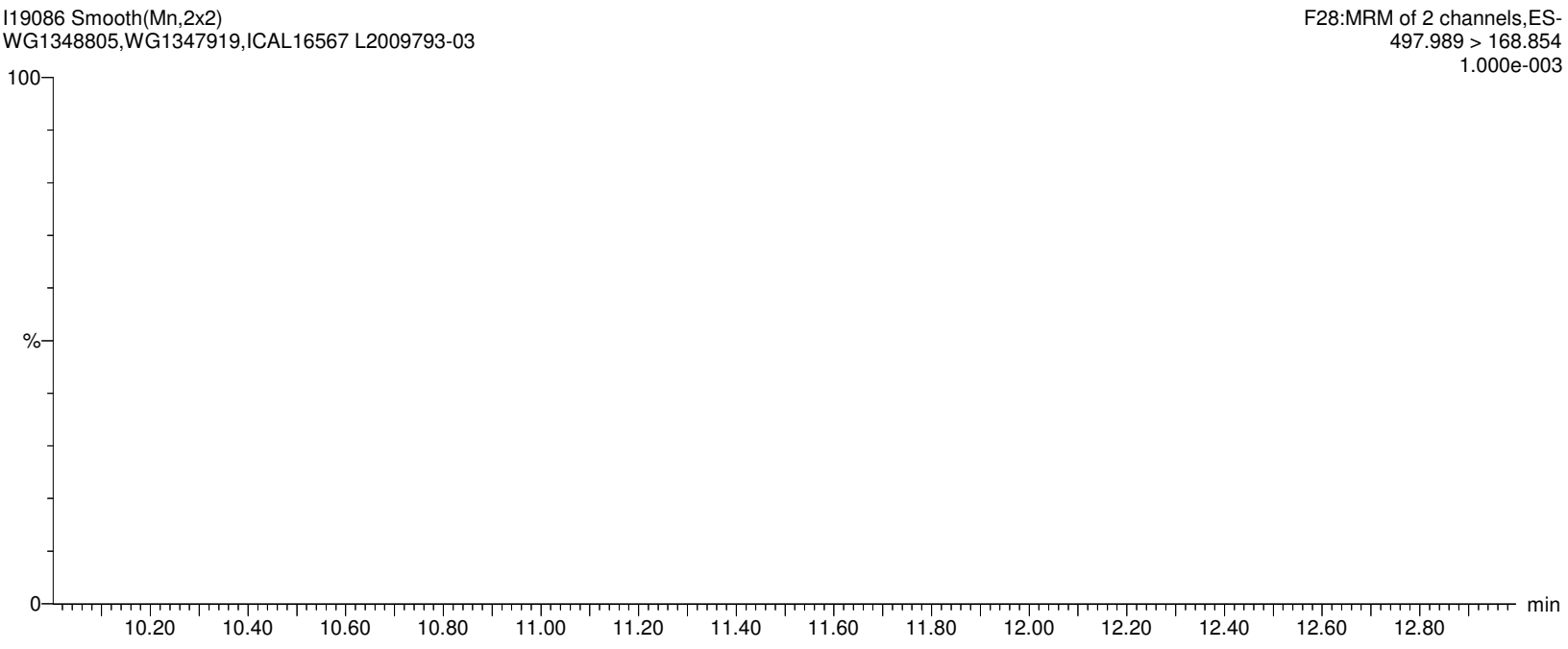

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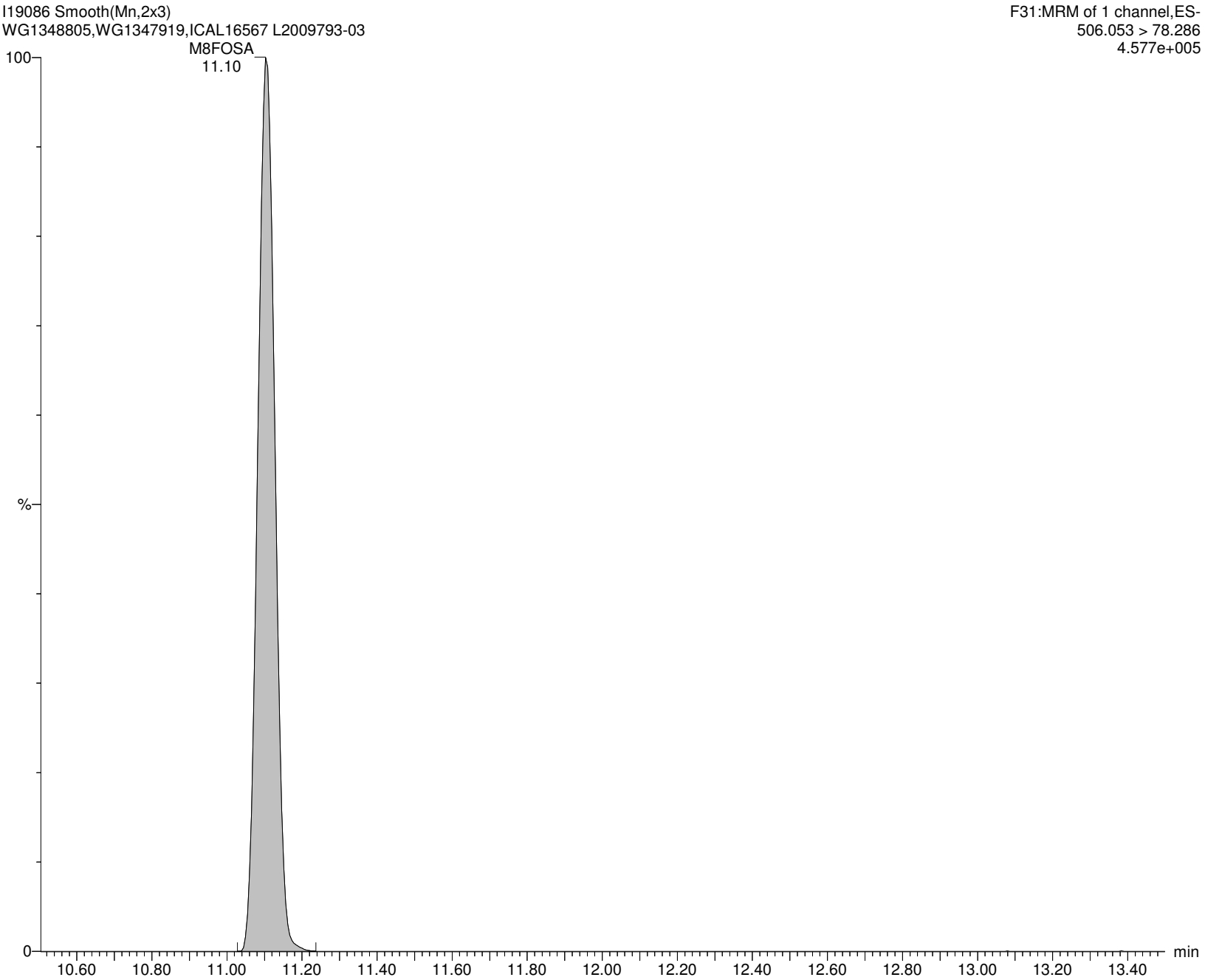

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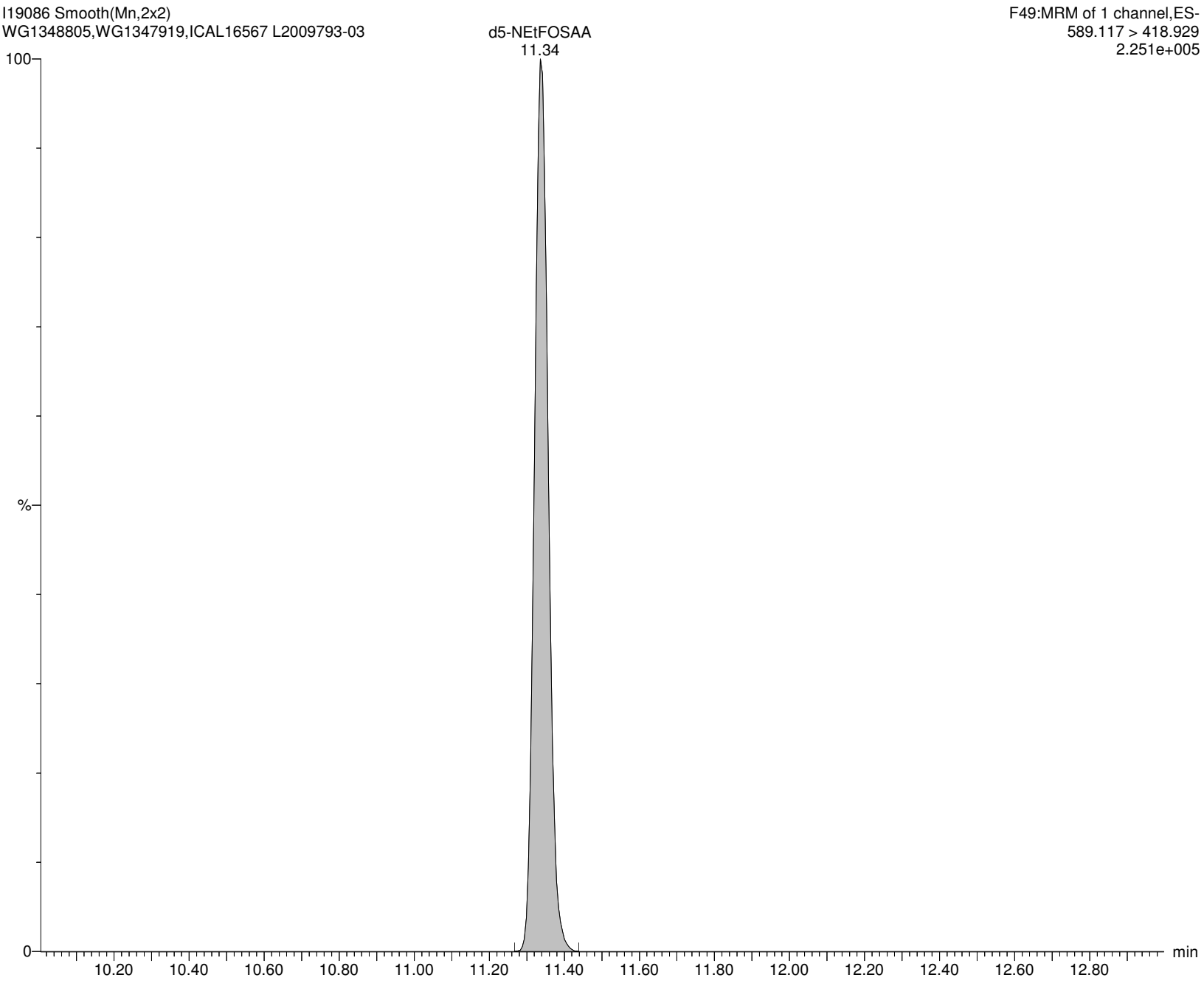
d5-NEtFOSAA



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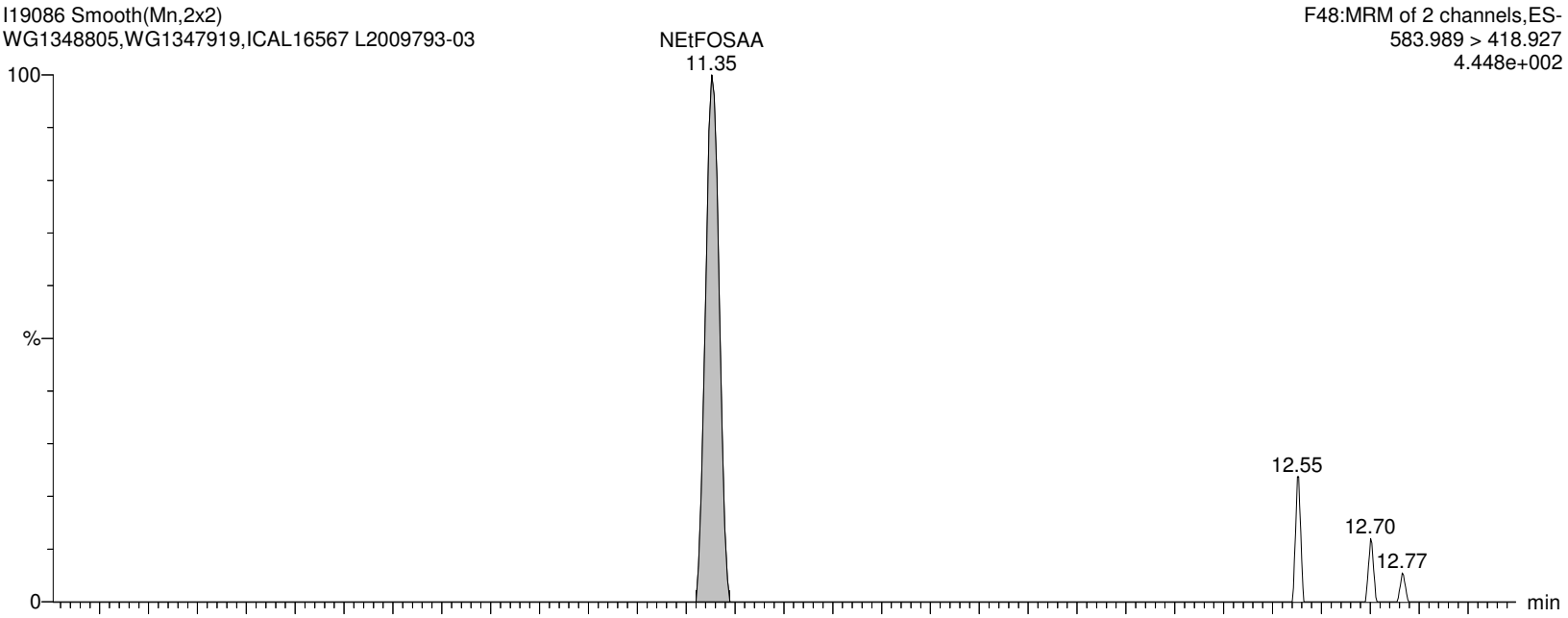
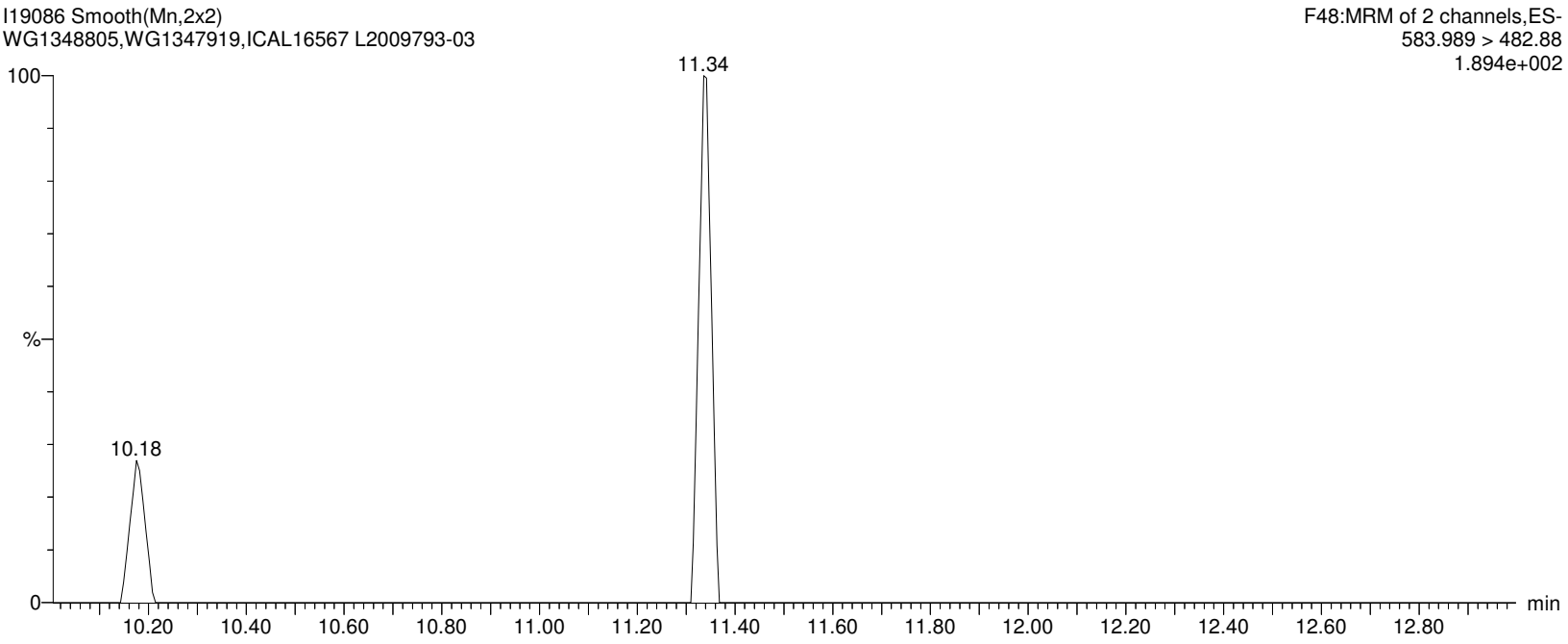
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSAA



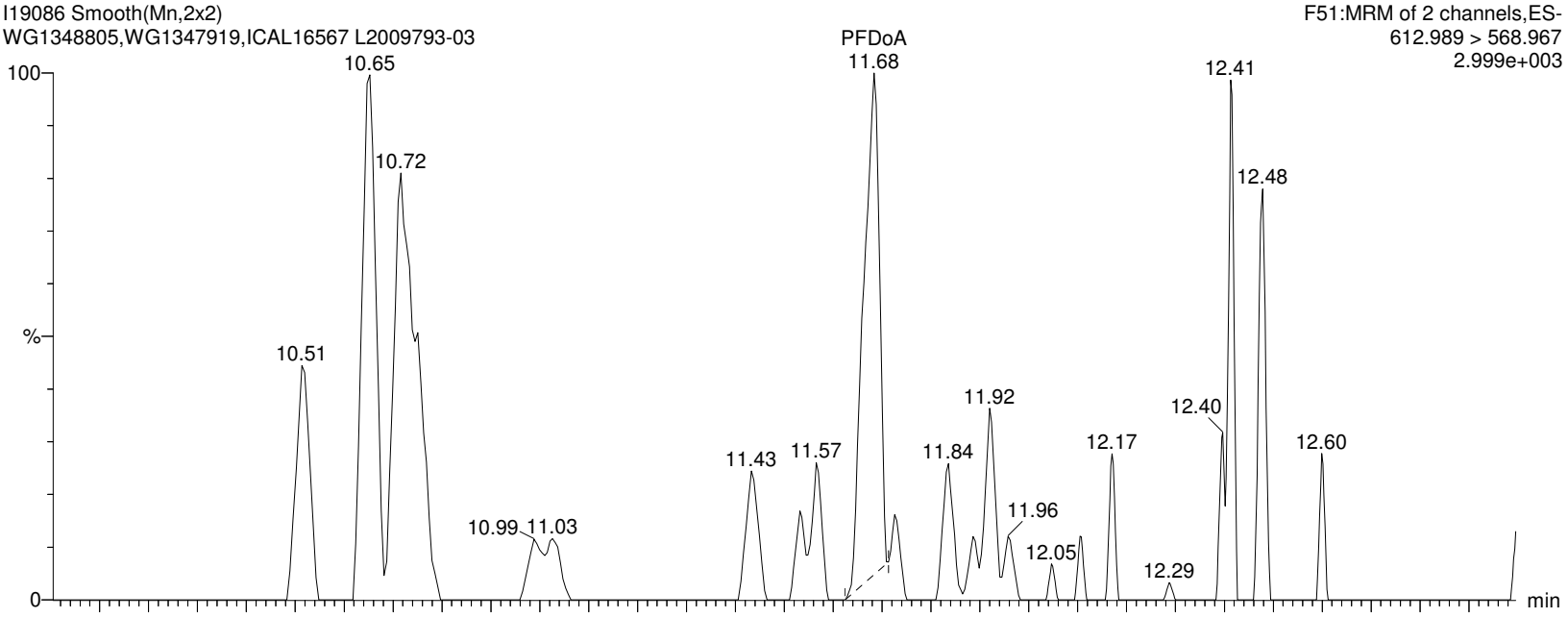


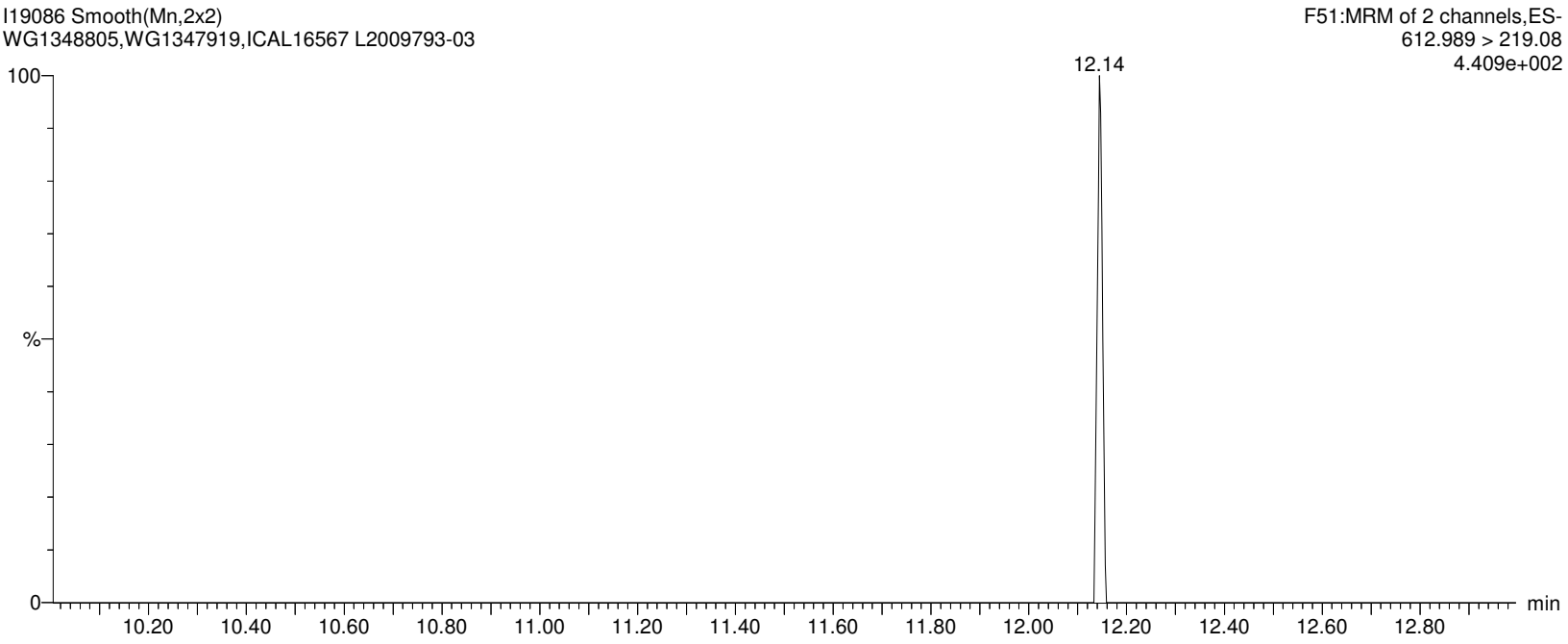
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFDoA



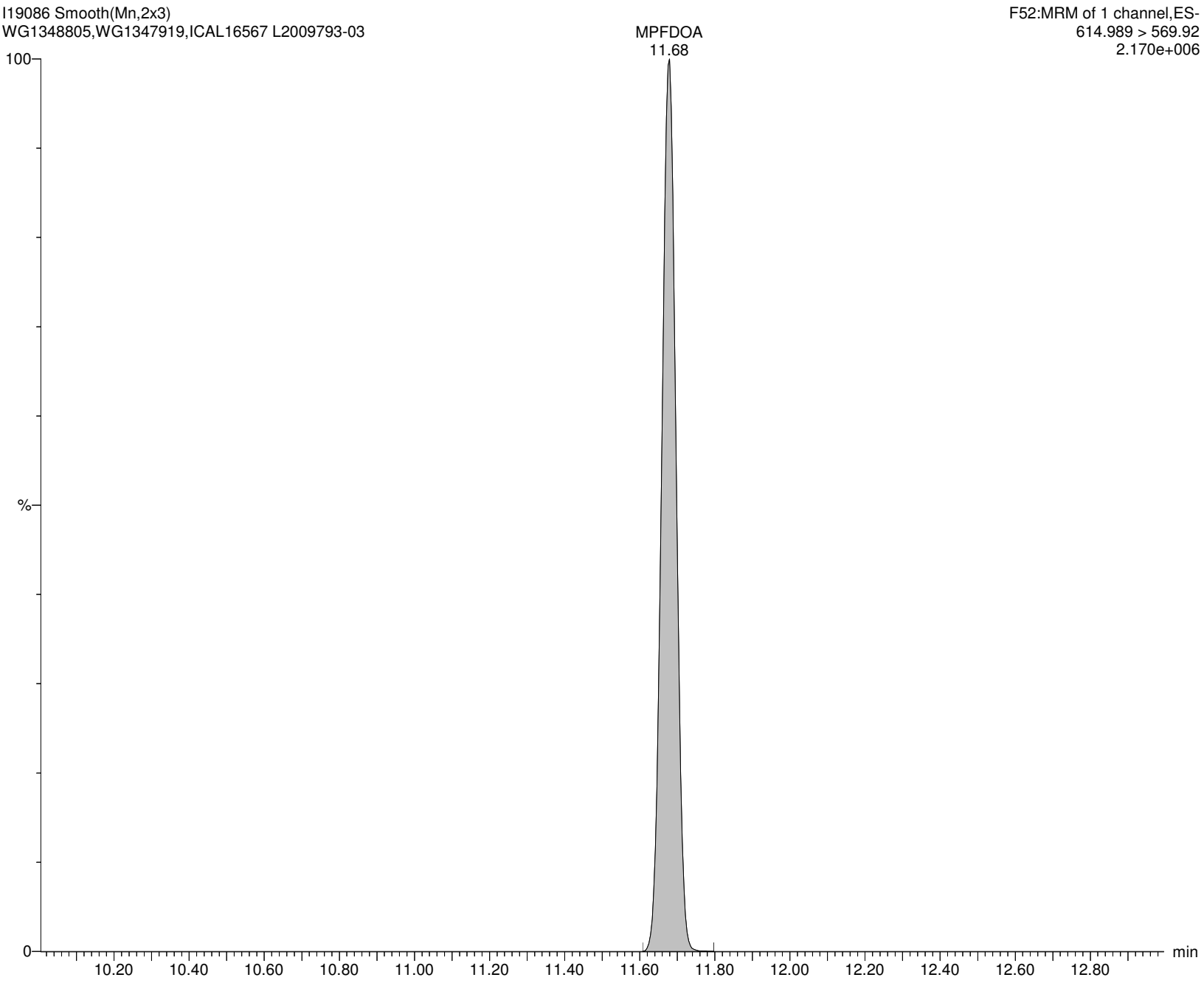


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

MPFDOA

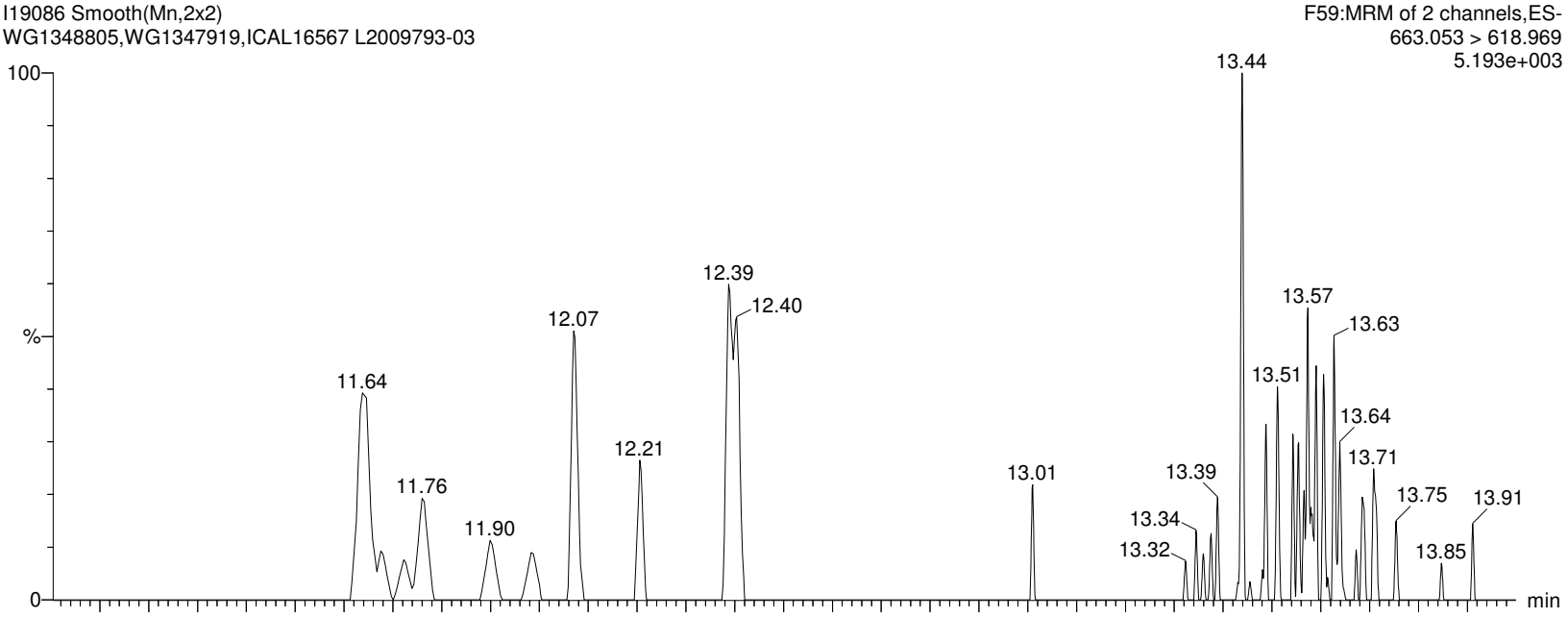


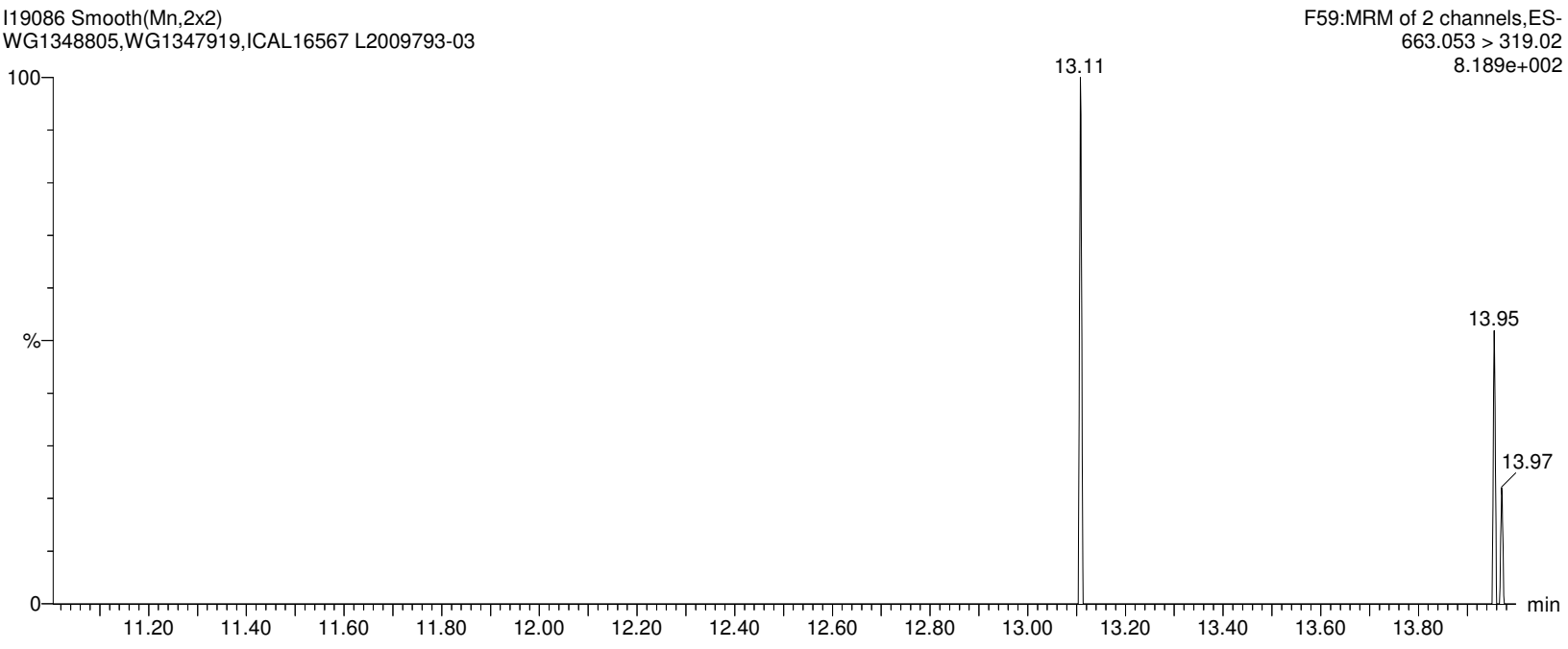
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFTrDA



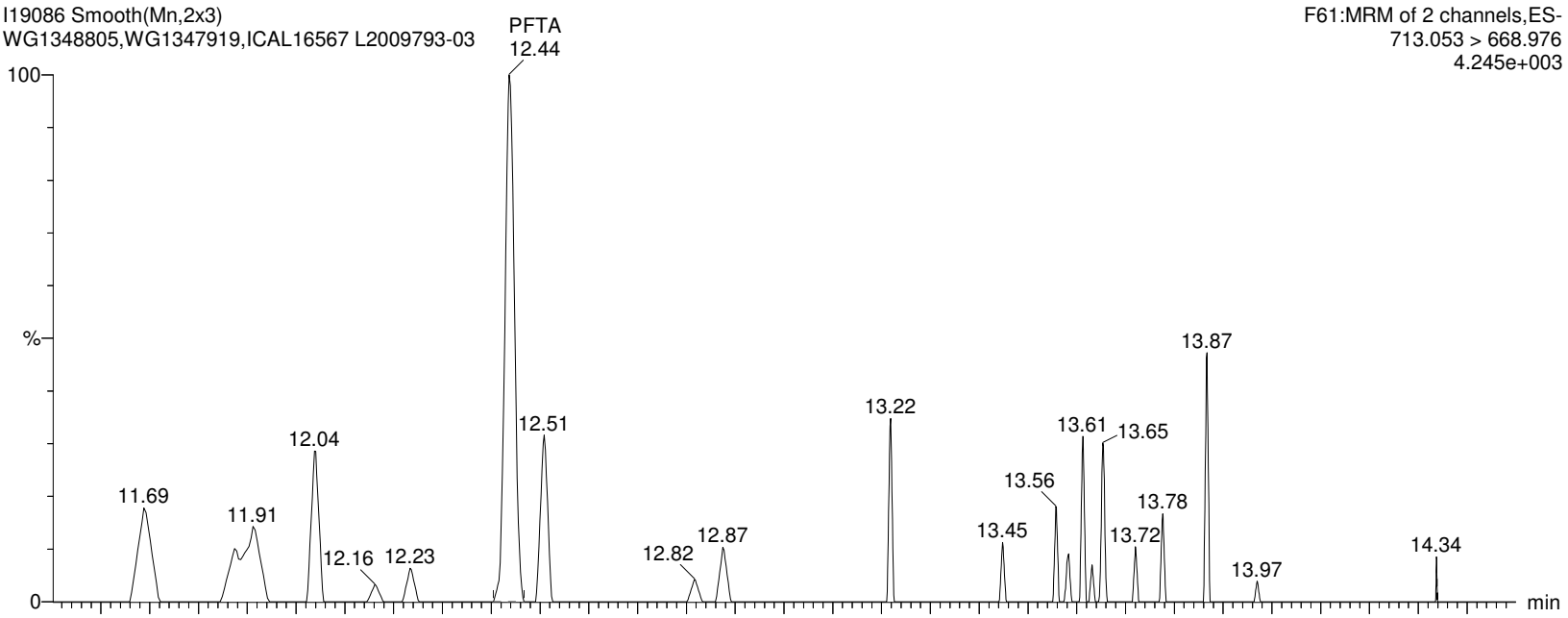


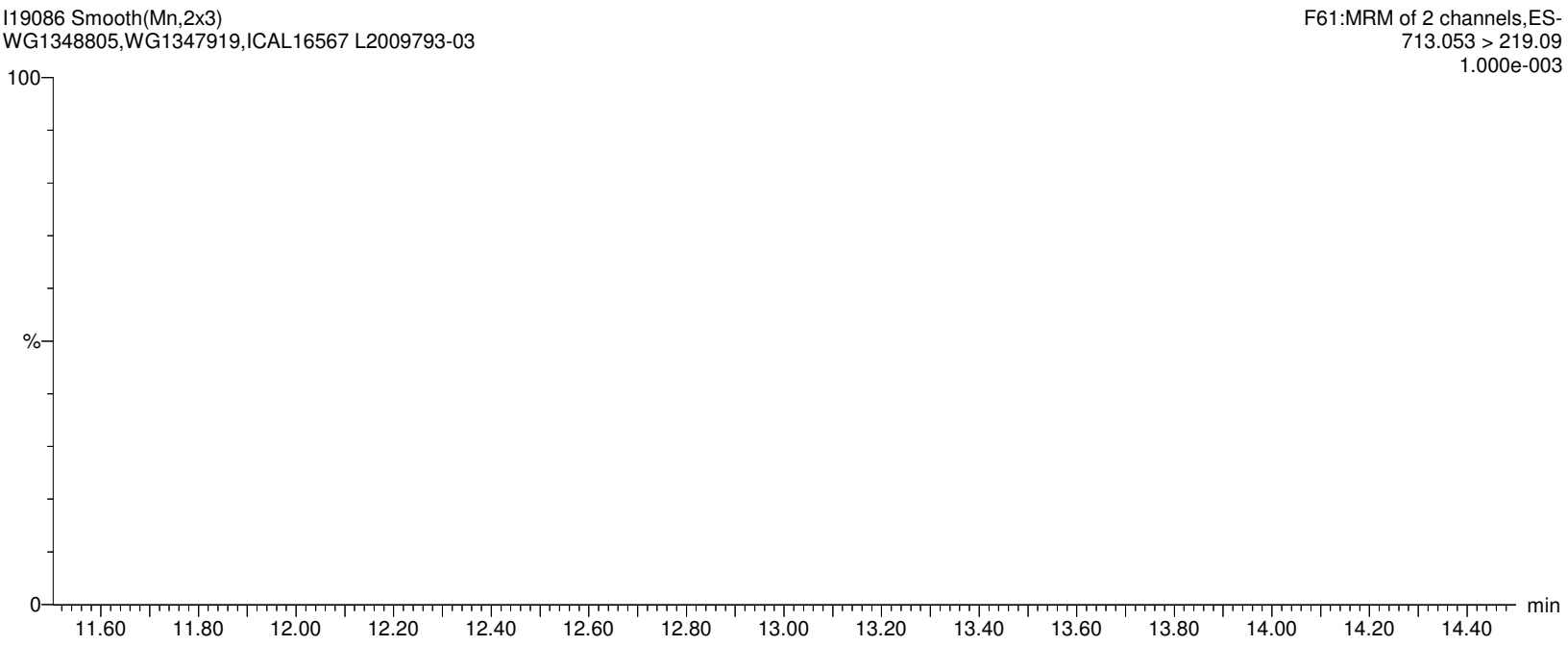
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFTA



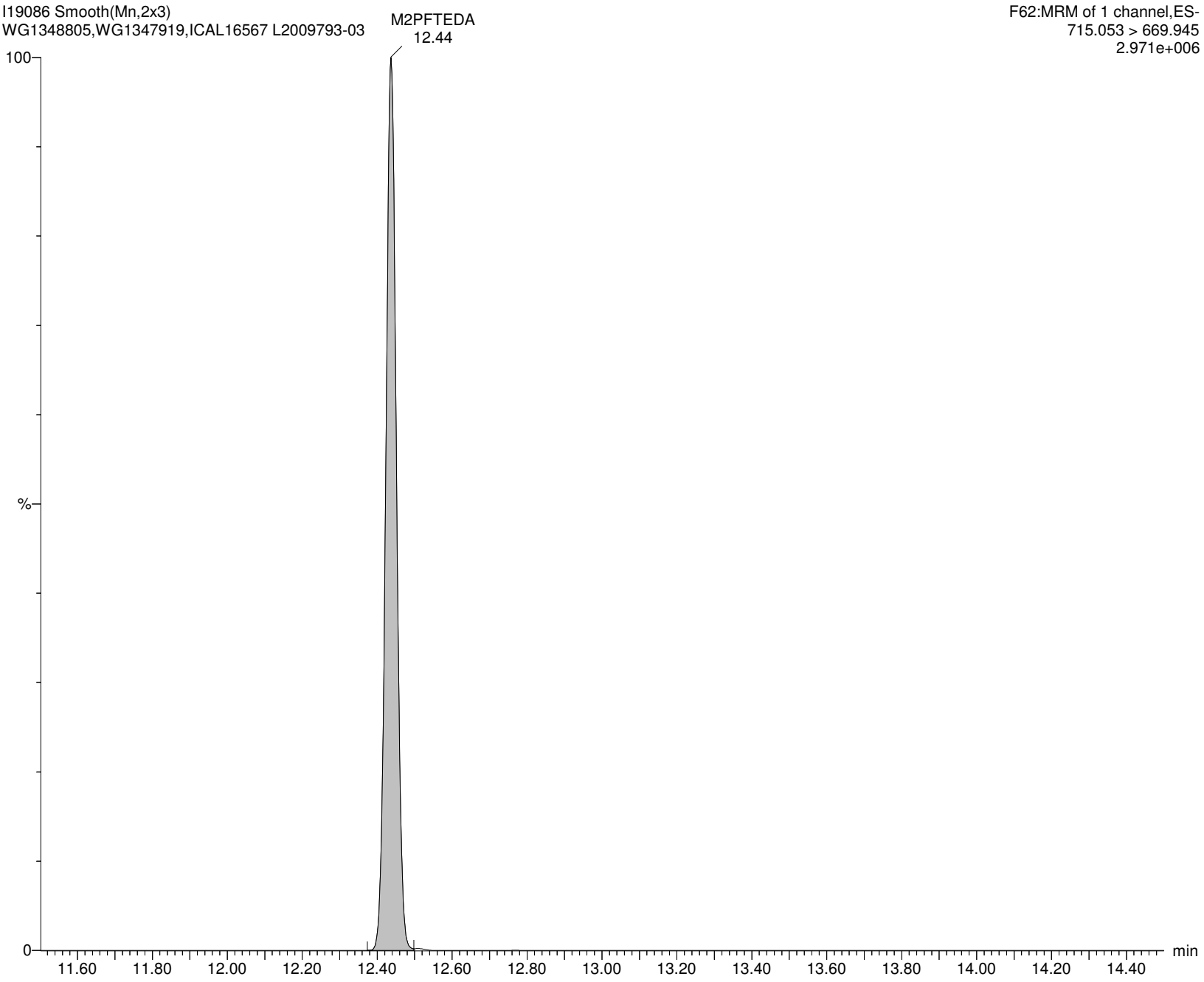


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 17, 2020 11:14:29 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:14:52 Eastern Daylight Time

Name: I19086
ID: L2009793-03
Date: 09-Mar-2020
Time: 17:36:11
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2PFTEDA



all concentration units in (ng/mL)

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Quantify Compound Summary Report **MassLynx V4.2 SCN977**

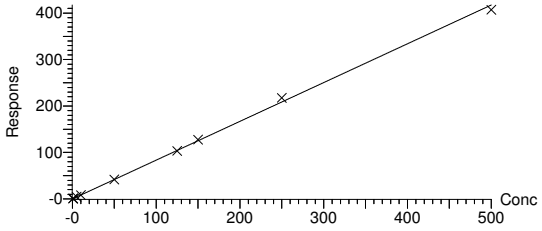
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	2.202	52425.441	2022.401	0.462	92.4	0.772	427		0.85
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	2.235	52304.957	4649.223	1.065	106.5	0.889	1276		0.88
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	2.197	52211.477	24281.963	5.570	111.4	0.930	3246		0.84
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	2.197	51444.141	42612.859	9.920	99.2	0.828	10768		0.86
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	2.197	50772.324	211671.219	49.930	99.9	0.834	135752		0.86
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	2.197	48226.301	497630.500	123.580	98.9	0.825	40939		0.81
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	2.197	49131.746	626725.063	152.770	101.8	0.850	74744		0.79
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	2.197	48443.484	1053096.500	260.349	104.1	0.870	107293		0.74
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	2.202	48827.039	1988962.500	487.854	97.6	0.815	207926		0.63

Compound name: PFBA
Coefficient of Determination: R^2 = 0.999191
Calibration curve: 0.83498 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

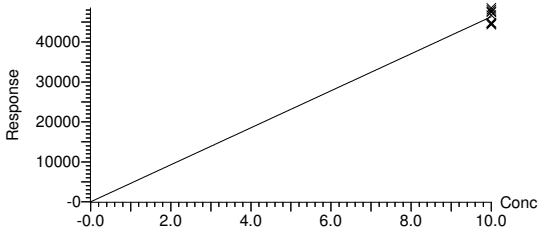
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	2.198		48556.770	10.479	104.8	4855.677	17539		0.88
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	2.232		47672.914	10.289	102.9	4767.291	19716		0.90
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	2.198		48104.082	10.382	103.8	4810.408	25209		0.84
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	2.193		47491.551	10.249	102.5	4749.155	13908		0.88
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	2.193		46737.883	10.087	100.9	4673.788	22328		0.87
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	2.193		44596.996	9.625	96.2	4459.700	42998		0.82
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	2.193		44320.668	9.565	95.7	4432.067	11982		0.80
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	2.193		44854.523	9.680	96.8	4485.452	19567		0.75
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	2.198		44687.082	9.644	96.4	4468.708	11830		0.63

Compound name: M3PFBA
Response Factor: 4633.58
RRF SD: 170.812, % Relative SD: 3.6864
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

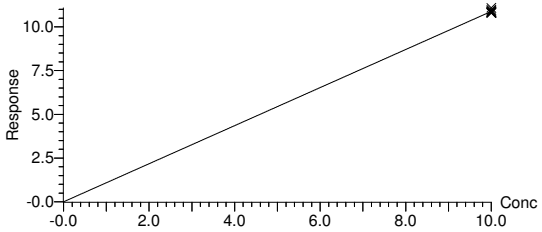
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	2.200	48556.770	52425.441	9.921	99.2	1.080	83214		0.88
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	2.234	47672.914	52304.957	10.082	100.8	1.097	21701		0.89
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	2.195	48104.082	52211.477	9.974	99.7	1.085	42882		0.85
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	2.195	47491.551	51444.141	9.954	99.5	1.083	27822		0.87
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	2.195	46737.883	50772.324	9.982	99.8	1.086	6123		0.86
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	2.195	44596.996	48226.301	9.937	99.4	1.081	27458		0.81
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	2.195	44320.668	49131.746	10.186	101.9	1.109	41537		0.79
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	2.195	44854.523	48443.484	9.924	99.2	1.080	16769		0.75
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	2.200	44687.082	48827.039	10.040	100.4	1.093	4654		0.63

Compound name: MPFBA
Response Factor: 1.08826
RRF SD: 0.00959591, % Relative SD: 0.881764
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

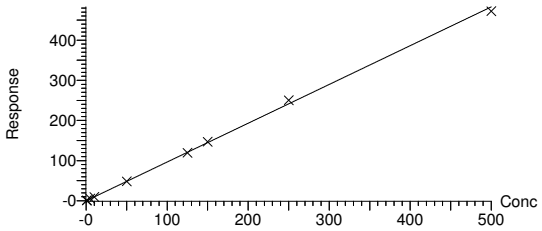
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.103	76105.172	3492.261	0.475	95.0	0.918	637		0.85
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.136	77263.586	7746.430	1.038	103.8	1.003	1599		0.87
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.100	75572.102	40899.605	5.604	112.1	1.082	11510		0.81
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.098	75017.859	70842.992	9.778	97.8	0.944	3098		0.83
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.097	72241.625	350630.375	50.254	100.5	0.971	41095		0.82
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.095	67687.656	808328.813	123.649	98.9	0.955	118382		0.75
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.094	69048.016	1014589.375	152.143	101.4	0.980	86534		0.75
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.094	66395.219	1664293.750	259.541	103.8	1.003	278059		0.71
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.095	64857.230	3063171.750	489.018	97.8	0.945	1134		0.59

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.999314
Calibration curve: 0.965801 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

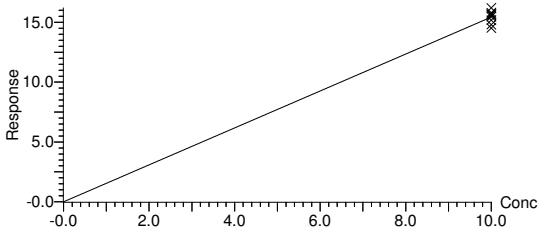
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.098	48556.770	76105.172	10.154	101.5	1.567	15613		0.94
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.131	47672.914	77263.586	10.500	105.0	1.621	18535		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.095	48104.082	75572.102	10.178	101.8	1.571	27622		0.92
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.092	47491.551	75017.859	10.234	102.3	1.580	23941		0.96
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.092	46737.883	72241.625	10.014	100.1	1.546	17064		0.94
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.089	44596.996	67687.656	9.833	98.3	1.518	16990		0.91
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.088	44320.668	69048.016	10.093	100.9	1.558	16815		0.91
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.088	44854.523	66395.219	9.590	95.9	1.480	10808		0.87
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.086	44687.082	64857.230	9.403	94.0	1.451	13250		0.76

Compound name: M5PFPEA
Response Factor: 1.54351
RRF SD: 0.0523876, % Relative SD: 3.39405
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

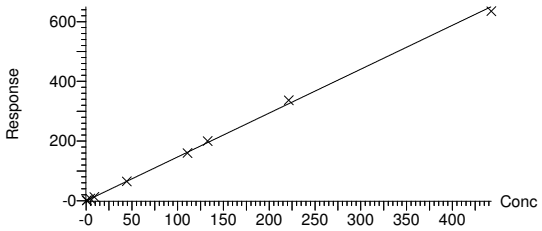
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.750	10365.686	654.601	0.430	97.1	1.427	198	44	0.98
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.775	10629.898	1391.914	0.891	100.7	1.480	209	151	0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.748	10509.768	7652.497	4.956	112.0	1.645	1592	1720	0.96
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.746	10088.863	13152.148	8.873	100.3	1.473	1587	2749	0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.744	9965.561	64765.324	44.235	100.0	1.469	6525	6660	0.98
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.740	9225.293	147915.531	109.133	98.7	1.449	51313	65736	0.95
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.740	9189.132	183932.656	136.241	102.6	1.508	29989	10666	0.95
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.738	8779.142	295488.219	229.092	103.5	1.521	51166	10003	0.93
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.733	8395.982	533039.500	432.126	97.7	1.435	86634	7042	0.89

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999262
Calibration curve: 1.46919 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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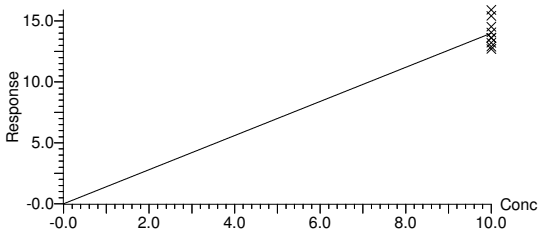
Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.750	7620.767	10365.686	9.717	97.2	1.360	3560		0.90
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.773	7797.159	10629.898	9.740	97.4	1.363	6733		0.93
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.748	8269.742	10509.768	9.079	90.8	1.271	123		0.87
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.746	7629.751	10088.863	9.447	94.5	1.322	2544		0.90
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.746	7090.403	9965.561	10.041	100.4	1.405	1311		0.87
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.742	7149.182	9225.293	9.219	92.2	1.290	2600		0.82
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.742	6324.697	9189.132	10.380	103.8	1.453	5278		0.81
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.742	5696.930	8779.142	11.009	110.1	1.541	3031		0.74
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.742	5276.689	8395.982	11.367	113.7	1.591	2580		0.64

Compound name: M3PFBS
Response Factor: 1.39974
RRF SD: 0.110062, % Relative SD: 7.86304
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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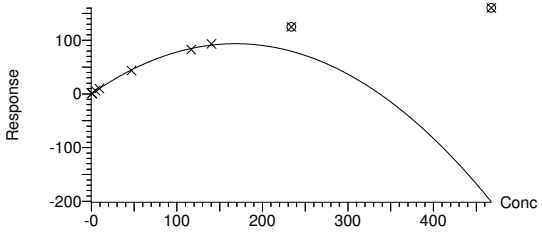
Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.923	5031.747	265.139	0.475	101.7	1.127	4336	27	0.87
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	6.933	5701.004	638.102	1.011	108.2	1.197	305	8	0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.916	5712.227	3446.212	5.526	118.2	1.290	1288	329	0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.916	5560.028	5683.588	9.476	101.3	1.093	2549	351	1.00
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.916	6681.914	29143.561	45.413	97.1	0.933	20705	2396	0.95
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.909	8099.027	66775.891	110.524	94.6	0.705	15168	462	0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.909	9331.077	86895.203	157.479	112.3	0.664	12484	26719	0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.905	11231.326	140203.016			0.534	13232	4927	0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.905	16745.953	268377.688			0.343	35566	10844	0.86

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.998246
Calibration curve: -0.00329334 * x^2 + 1.10998 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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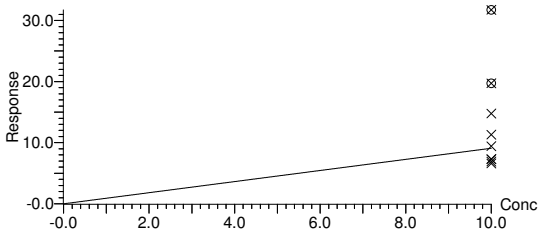
Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.919	7620.767	5031.747	7.265	72.7	0.660	93122		0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	6.933	7797.159	5701.004	8.046	80.5	0.731	104927		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.916	8269.742	5712.227	7.601	76.0	0.691	1035		1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.916	7629.751	5560.028	8.019	80.2	0.729	541		0.94
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.913	7090.403	6681.914	10.370	103.7	0.942	4239		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.909	7149.182	8099.027	12.466	124.7	1.133	1149		0.93
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.909	6324.697	9331.077	16.234	162.3	1.475	163851		0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.909	5696.930	11231.326	21.693	216.9	1.971	1244		0.85
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.906	5276.689	16745.953	34.921	349.2	3.174	4689		0.84

Compound name: M2-4:2FTS
Response Factor: 0.908784
RRF SD: 0.301551, % Relative SD: 33.1818
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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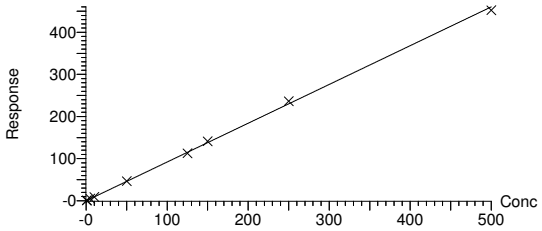
Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.997	86318.461	4783.421	0.602	120.4	1.108	372	13	1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.014	89049.195	9448.923	1.153	115.3	1.061	775	72	0.96
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.997	87051.219	45761.648	5.710	114.2	1.051	3188	257	0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.997	85937.961	78643.000	9.941	99.4	0.915	3968	450	0.93
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.994	82847.523	385143.969	50.500	101.0	0.930	25319	2529	0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.990	77004.234	867096.500	122.320	97.9	0.901	44217	4573	0.93
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.990	76551.578	1081576.375	153.479	102.3	0.942	40523	6533	0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.987	73381.758	1733137.375	256.561	102.6	0.945	53786	10812	0.97
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.983	69255.578	3131820.000	491.234	98.2	0.904	91196	7077	0.93

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.999423
Calibration curve: 0.920564 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

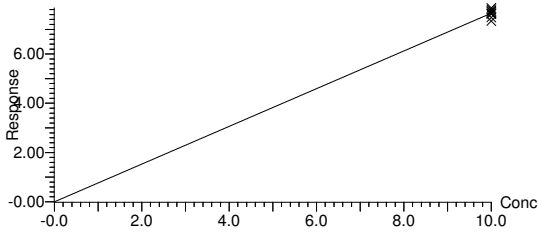
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.997	117636.820	86318.461	9.586	95.9	0.734	11836		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.010	114802.125	89049.195	10.133	101.3	0.776	7997		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.997	113627.328	87051.219	10.008	100.1	0.766	10533		0.96
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.994	114891.016	85937.961	9.771	97.7	0.748	14012		0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.994	107343.031	82847.523	10.082	100.8	0.772	9464		0.96
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.987	101103.344	77004.234	9.950	99.5	0.762	11330		0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.987	97990.719	76551.578	10.205	102.1	0.781	9373		1.01
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.987	96048.547	73381.758	9.981	99.8	0.764	11032		0.94
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.984	87971.789	69255.578	10.284	102.8	0.787	6283		0.93

Compound name: M5PFHxA
Response Factor: 0.765496
RRF SD: 0.0165596, % Relative SD: 2.16325
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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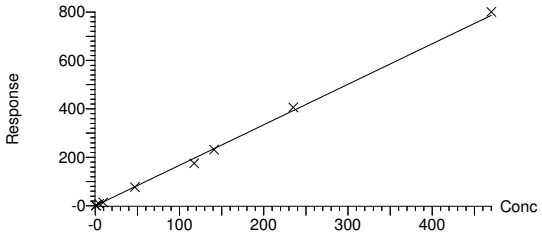
Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	7.309	6305.094	446.562	0.423	90.1	1.507	284	33	1.13
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.322	6708.928	946.722	0.844	89.8	1.501	14	62	0.97
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	7.309	6466.852	5126.527	4.740	100.9	1.687	494	60990	1.00
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	7.306	6314.215	9042.376	8.563	91.1	1.523	5665	2677	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	7.306	5737.190	44566.102	46.448	98.8	1.653	8476	3548	1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	7.296	5547.521	97344.078	104.923	89.3	1.493	14960	14826	1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	7.299	5231.039	121259.477	138.608	98.3	1.644	13032	18913	1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	7.293	4621.618	187634.234	242.760	103.3	1.728	19754	14066	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	7.283	3959.817	317014.781	478.701	101.9	1.703	34657	20744	1.11

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.998113
Calibration curve: 1.6724 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

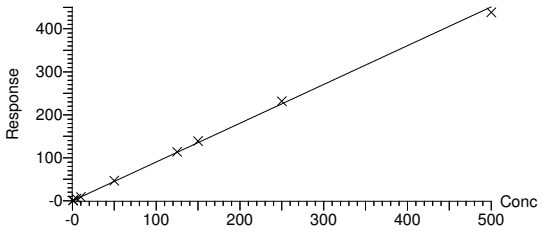
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.261	117836.461	5195.347	0.489	97.8	0.882	360	77	1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.267	121641.055	11592.057	1.056	105.6	0.953	652	108	1.08
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.257	117691.789	60757.566	5.723	114.5	1.032	4284	937	1.06
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.257	116421.445	103796.039	9.884	98.8	0.892	6673	1168	0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.261	108576.563	506166.594	51.681	103.4	0.932	17764	6528	1.07
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.254	101436.859	1153905.625	126.109	100.9	0.910	37952	13087	1.06
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.254	102764.422	1427443.125	153.988	102.7	0.926	61661	14704	1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.257	95052.969	2202072.500	256.824	102.7	0.927	61936	17126	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.254	89172.406	3907235.500	485.746	97.1	0.876	58138	28566	1.10

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.999180
Calibration curve: 0.902048 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

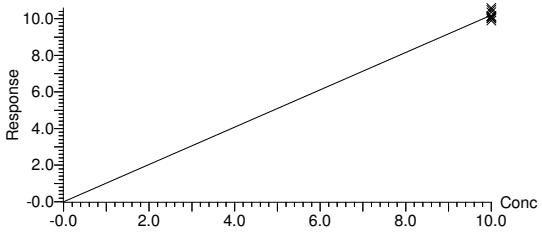
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.261	117636.820	117836.461	9.824	98.2	1.002	9958		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.267	114802.125	121641.055	10.391	103.9	1.060	6274		1.06
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.257	113627.328	117691.789	10.158	101.6	1.036	16862		1.05
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.254	114891.016	116421.445	9.938	99.4	1.013	7116		1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.261	107343.031	108576.563	9.920	99.2	1.011	8349		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.254	101103.344	101436.859	9.839	98.4	1.003	7911		1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.254	97990.719	102764.422	10.285	102.8	1.049	4929		1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.257	96048.547	95052.969	9.705	97.1	0.990	7797		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.254	87971.789	89172.406	9.941	99.4	1.014	4562		1.09

Compound name: M4PFHpA
Response Factor: 1.01968
RRF SD: 0.0232692, % Relative SD: 2.282
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

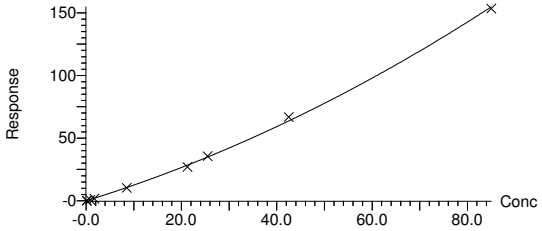
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.185	6305.094	11.237	0.015	17.8	0.210	1		0.26
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.135	6708.928	71.949	0.091	53.5	0.631	6	3	4.56
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.178	6466.852	518.690	0.678	79.8	0.944	16	7	0.47
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.185	6314.215	1050.500	1.400	82.4	0.979	63	33	0.42
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.185	5737.190	5931.751	8.333	98.0	1.216	185	73	0.45
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.178	5547.521	14988.256	20.296	95.5	1.271	1100	514	0.44
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.178	5231.039	18595.721	25.883	101.5	1.394	2530	273	0.46
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.181	4621.618	30899.139	44.216	104.0	1.573	868	707	0.44
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.181	3959.817	60734.234	84.444	99.3	1.804	4667	831	0.44

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.998684
Calibration curve: 0.00756262 * x^2 + 1.17768 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

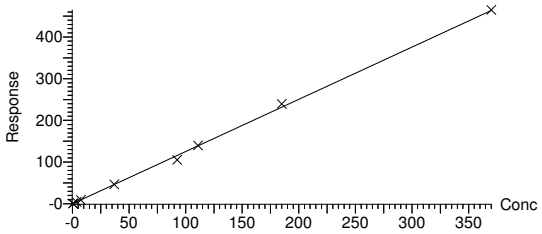
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.424	6305.094	259.238	0.328	88.7	1.111	20	15	0.68
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.420	6708.928	470.828	0.560	75.7	0.948	53	37	1.13
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.414	6466.852	3162.710	3.904	105.5	1.322	159	90	0.97
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.410	6314.215	5750.373	7.270	98.2	1.231	597	350	1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.417	5737.190	26815.008	37.313	100.8	1.263	1314	700	1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.410	5547.521	58360.066	83.984	90.8	1.137	6939	4653	1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.410	5231.039	73279.281	111.834	100.8	1.262	15404	2385	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.414	4621.618	110741.648	191.292	103.4	1.295	4739	5075	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.407	3959.817	184133.313	371.225	100.3	1.257	21995	5050	1.25

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.998646
Calibration curve: 1.25262 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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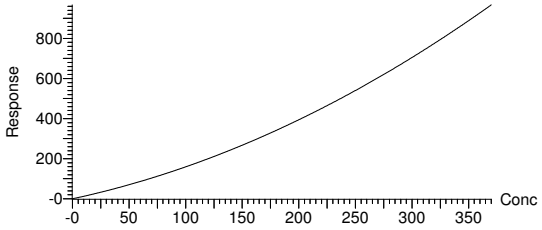
Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		6305.094	270.475	0.343					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		6708.928	542.777	0.651					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		6466.852	3681.400	4.582					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		6314.215	6800.873	8.670					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		5737.190	32746.759	45.646					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		5547.521	73348.322	104.280					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		5231.039	91875.002	137.717					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		4621.618	141640.787	235.508					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		3959.817	244867.547	455.669					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.21515 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

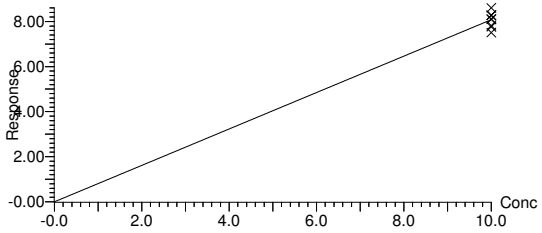
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.414	7620.767	6305.094	10.241	102.4	0.827	136293		1.11
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.424	7797.159	6708.928	10.650	106.5	0.860	144053		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.414	8269.742	6466.852	9.679	96.8	0.782	138118		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.410	7629.751	6314.215	10.243	102.4	0.828	1886		1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.414	7090.403	5737.190	10.015	100.2	0.809	700		1.19
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.410	7149.182	5547.521	9.605	96.0	0.776	12		1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.407	6324.697	5231.039	10.237	102.4	0.827	648		1.16
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.410	5696.930	4621.618	10.041	100.4	0.811	203		1.16
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.407	5276.689	3959.817	9.289	92.9	0.750	385		1.17

Compound name: M3PFHxS
Response Factor: 0.807915
RRF SD: 0.033353, % Relative SD: 4.12828
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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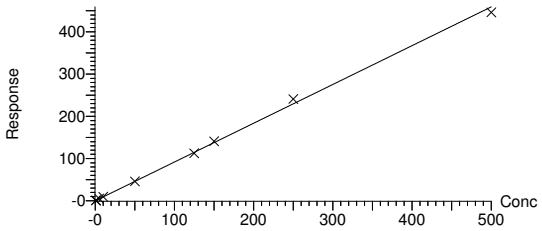
Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		114742.953							
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		115929.242							
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		112562.227							
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		109470.945							
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		106781.555							
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		98244.656							
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		98053.172							
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		90653.047						3	
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		85048.031						2	

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998806
Calibration curve: 0.918228 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

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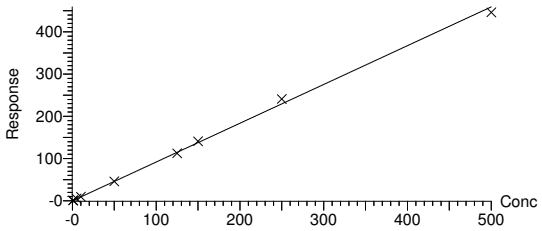
Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.195	114742.953	5268.463	0.500	100.0	0.918	138	61	1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.201	115929.242	11899.890	1.118	111.8	1.026	324	80	1.08
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.192	112562.227	58197.820	5.631	112.6	1.034	1597	182	1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.192	109470.945	105110.031	10.457	104.6	0.960	3137	231297	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.198	106781.555	491336.344	50.111	100.2	0.920	13186	348	1.11
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.192	98244.656	1104013.250	122.381	97.9	0.899	25245	15685	1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.189	98053.172	1380425.125	153.321	102.2	0.939	34514	5127	1.12
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.195	90653.047	2184240.000	262.402	105.0	0.964	28539	12915	1.10
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.195	85048.031	3792057.500	485.579	97.1	0.892	73682	13446	1.15

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998806
Calibration curve: 0.918228 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

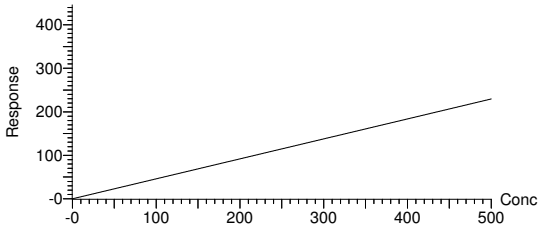
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		114742.953	5268.463	0.500					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		115929.242	11899.890	1.118					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		112562.227	58197.820	5.631					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		109470.945	105110.031	10.457					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		106781.555	491336.344	50.111					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		98244.656	1104013.250	122.381					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		98053.172	1380425.125	153.321					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		90653.047	2184240.000	262.402					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		85048.031	3792057.500	485.579					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.459114 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

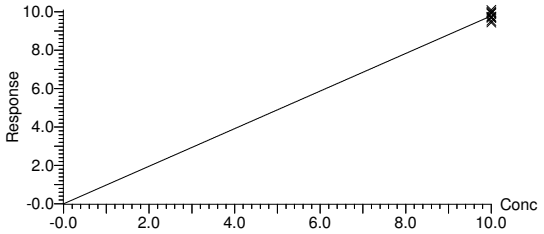
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.195	117636.820	114742.953	9.968	99.7	0.975	6801		1.02
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.201	114802.125	115929.242	10.320	103.2	1.010	11747		1.01
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.189	113627.328	112562.227	10.124	101.2	0.991	2472767		1.08
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.189	114891.016	109470.945	9.738	97.4	0.953	2330920		1.11
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.198	107343.031	106781.555	10.166	101.7	0.995	7478		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.192	101103.344	98244.656	9.931	99.3	0.972	11749		1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.189	97990.719	98053.172	10.226	102.3	1.001	32823		1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.195	96048.547	90653.047	9.646	96.5	0.944	4405		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.195	87971.789	85048.031	9.880	98.8	0.967	2298		1.09

Compound name: M8PFOA
Response Factor: 0.978488
RRF SD: 0.0221851, % Relative SD: 2.26728
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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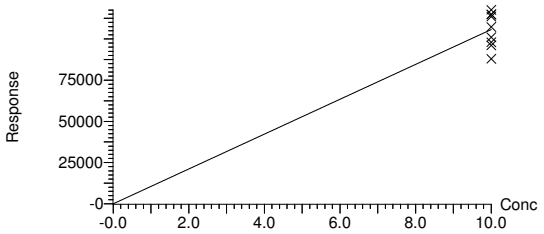
Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.195		117636.820	11.128	111.3	11763.682	9674		1.05
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.201		114802.125	10.860	108.6	11480.213	11792		1.07
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.192		113627.328	10.749	107.5	11362.733	8335		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.192		114891.016	10.868	108.7	11489.102	6316		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.198		107343.031	10.154	101.5	10734.303	6504		1.07
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.192		101103.344	9.564	95.6	10110.334	13673		1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.189		97990.719	9.270	92.7	9799.072	15591		1.13
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.195		96048.547	9.086	90.9	9604.855	6987		1.12
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.195		87971.789	8.322	83.2	8797.179	7087		1.17

Compound name: M2PFOA
Response Factor: 10571.3
RRF SD: 1038.84, % Relative SD: 9.82703
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

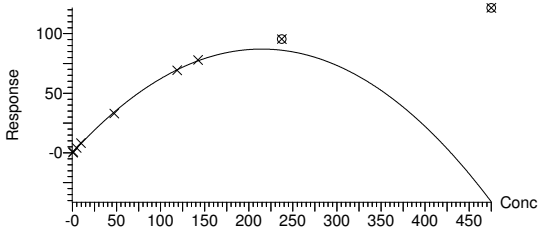
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.151	5244.259	136.521	0.321	67.6	0.548	43		1.18
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.160	5793.605	472.065	1.007	106.0	0.858	11270		1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.154	5686.892	2364.637	5.188	109.2	0.875	2595	2922	1.04
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.151	5537.379	4543.102	10.363	109.1	0.864	90	10198	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.157	6923.649	22887.639	45.588	96.0	0.696	2509	49281	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.151	7531.343	52169.430	117.597	99.0	0.583	24000	105127	1.11
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.147	8490.607	66168.844	145.112	101.8	0.547	9501	143411	1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.154	11016.425	105134.914			0.402	8557	244179	1.04
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.154	16172.786	196700.500			0.256	9005	445042	1.05

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.998705
Calibration curve: -0.00188986 * x^2 + 0.811287 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

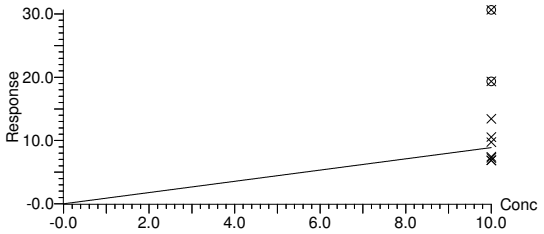
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.154	7620.767	5244.259	7.748	77.5	0.688	1856		1.08
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.163	7797.159	5793.605	8.366	83.7	0.743	130134		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.151	8269.742	5686.892	7.743	77.4	0.688	1728		1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.151	7629.751	5537.379	8.172	81.7	0.726	128419		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.160	7090.403	6923.649	10.995	109.9	0.976	3006		0.94
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.154	7149.182	7531.343	11.861	118.6	1.053	173852		0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.151	6324.697	8490.607	15.115	151.2	1.342	866		0.96
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.154	5696.930	11016.425	21.773	217.7	1.934	251479		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.154	5276.689	16172.786	34.510	345.1	3.065	3544		1.05

Compound name: M2-6:2FTS
Response Factor: 0.888146
RRF SD: 0.248037, % Relative SD: 27.9275
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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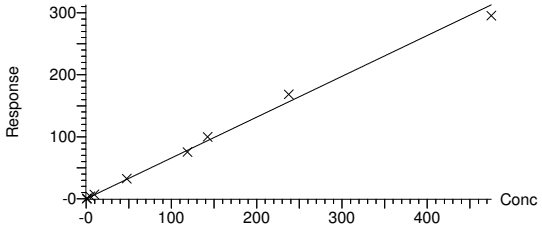
Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.288	7863.209	144.360	0.279	58.7	0.387	221	10	0.78
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.288	8337.590	621.729	1.132	119.2	0.785	155	101	1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.279	7856.718	2920.696	5.646	118.9	0.783	797	309	1.12
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.282	7611.157	5201.360	10.378	109.2	0.719	12	669	0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.288	7647.324	24823.602	49.296	103.8	0.683	4812	2802	1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.282	6866.474	51706.141	114.358	96.3	0.634	1116814	5891	1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.279	6560.688	65508.563	151.638	106.4	0.701	6932	3799	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.285	5910.273	99602.891	255.931	107.8	0.710	1917	10570	1.08
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.285	5658.023	167009.734	448.266	94.4	0.621	17852	20289	1.15

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.995952
Calibration curve: 0.658478 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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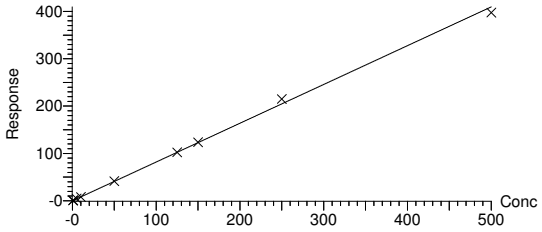
Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.946	114401.953	4410.776	0.471	94.1	0.771	122	301	1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.950	113246.805	10939.968	1.179	117.9	0.966	299	51723	0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.941	112215.648	52307.785	5.690	113.8	0.932	1092	243154	1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.941	112653.875	90734.125	9.831	98.3	0.805	2463	708	1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.950	104182.664	434642.250	50.925	101.8	0.834	10328	7740	0.98
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.946	94452.336	964953.875	124.705	99.8	0.817	30563	8818	0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.941	96585.883	1196780.250	151.249	100.8	0.826	30019	13273	1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.946	87852.000	1887084.875	262.199	104.9	0.859	40376	21285	1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.946	82060.539	3262201.750	485.252	97.1	0.795	81231	41203	1.06

Compound name: PFNA
Coefficient of Determination: R^2 = 0.998884
Calibration curve: 0.819236 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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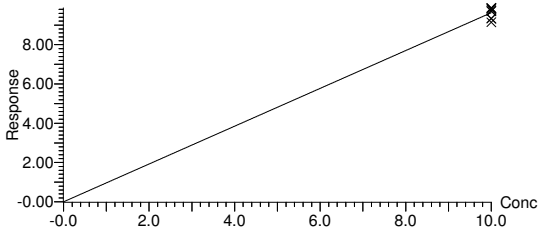
Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.946	117636.820	114401.953	10.101	101.0	0.973	16011		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.950	114802.125	113246.805	10.246	102.5	0.986	34666		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.941	113627.328	112215.648	10.258	102.6	0.988	11385		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.941	114891.016	112653.875	10.184	101.8	0.981	12874		1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.946	107343.031	104182.664	10.081	100.8	0.971	6038		1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.941	101103.344	94452.336	9.703	97.0	0.934	462		1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.941	97990.719	96585.883	10.238	102.4	0.986	2951		1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.946	96048.547	87852.000	9.500	95.0	0.915	4214		1.00
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.946	87971.789	82060.539	9.689	96.9	0.933	8159		1.04

Compound name: M9PFNA
Response Factor: 0.962774
RRF SD: 0.0278357, % Relative SD: 2.89119
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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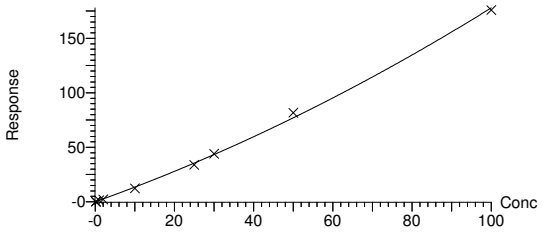
Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.724	7863.209	63.022	0.062	61.5	0.801	1		4.31
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.809	8337.590	144.024	0.133	66.3	0.864	7	5	0.44
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.801	7856.718	1018.896	0.992	99.2	1.297	66	8	0.38
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.801	7611.157	1719.872	1.724	86.2	1.130	60	50	0.47
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.809	7647.324	9374.953	9.110	91.1	1.226	206	58	0.37
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.805	6866.474	23335.752	23.990	96.0	1.359	254	146	0.38
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.801	6560.688	28882.205	30.417	101.4	1.467	969	130741	0.41
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.809	5910.273	48275.703	52.590	105.2	1.634	1207	725	0.38
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.809	5658.023	99553.039	99.112	99.1	1.760	64	1430	0.39

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.998470
Calibration curve: 0.0047735 * x^2 + 1.30214 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

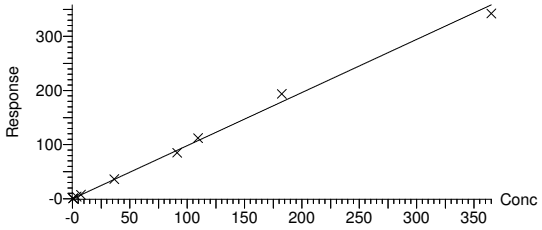
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.0...	7863.209	210.105	0.272	74.6	0.732	7	5455	0.73
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.0...	8337.590	646.229	0.790	108.2	1.062	57	38	1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.993	7856.718	3141.077	4.074	111.6	1.095	356	84	0.93
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.993	7611.157	5686.805	7.613	104.3	1.024	417	466	0.94
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.997	7647.324	27678.270	36.880	101.0	0.992	1273	545	1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.993	6866.474	58381.578	86.636	94.9	0.932	1365	1277	1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.993	6560.688	73590.516	114.296	104.4	1.024	5274	1018150	0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.997	5910.273	114601.617	197.579	108.3	1.062	5829	5448	1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.997	5658.023	193598.438	348.655	95.5	0.937	263	8522	1.08

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.996780
Calibration curve: 0.98139 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

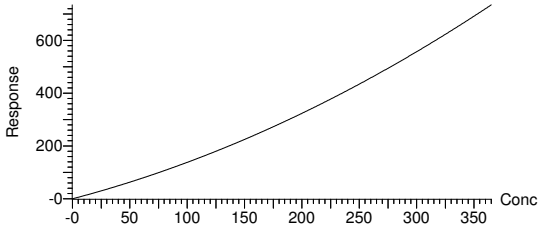
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		7863.209	273.127	0.334					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		8337.590	790.253	0.922					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		7856.718	4159.973	5.066					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		7611.157	7406.677	9.338					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		7647.324	37053.223	45.990					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		6866.474	81717.330	110.626					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		6560.688	102472.721	144.713					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		5910.273	162877.320	250.169					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		5658.023	293151.477	447.767					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.14177 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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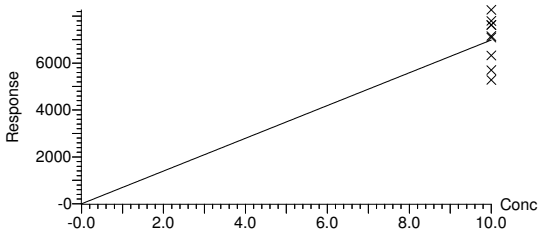
Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.997		7620.767	10.912	109.1	762.077	157037		0.93
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.0...		7797.159	11.164	111.6	779.716	167149		0.90
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.989		8269.742	11.841	118.4	826.974	177403		1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.993		7629.751	10.925	109.2	762.975	159530		0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.997		7090.403	10.152	101.5	709.040	146923		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.993		7149.182	10.237	102.4	714.918	1645		1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.993		6324.697	9.056	90.6	632.470	128909		0.95
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.997		5696.930	8.157	81.6	569.693	1209		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.997		5276.689	7.555	75.6	527.669	101650		1.07

Compound name: M4PFOS
Response Factor: 698.392
RRF SD: 101.128, % Relative SD: 14.4802
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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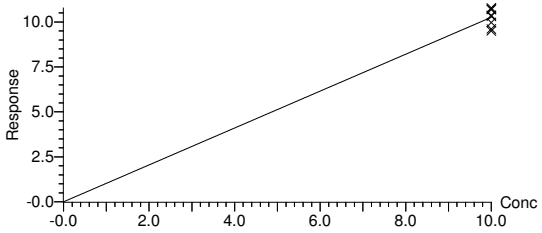
Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.993	7620.767	7863.209	10.056	100.6	1.032	165326		1.01
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.998	7797.159	8337.590	10.421	104.2	1.069	174045		1.05
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.989	8269.742	7856.718	9.259	92.6	0.950	4400		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.993	7629.751	7611.157	9.722	97.2	0.998	1249		0.96
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.998	7090.403	7647.324	10.511	105.1	1.079	1059		1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.993	7149.182	6866.474	9.360	93.6	0.960	317		1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.993	6324.697	6560.688	10.109	101.1	1.037	667		0.91
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.998	5696.930	5910.273	10.111	101.1	1.037	412		0.96
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.998	5276.689	5658.023	10.450	104.5	1.072	376		1.04

Compound name: M8PFOS
Response Factor: 1.02609
RRF SD: 0.0473585, % Relative SD: 4.61545
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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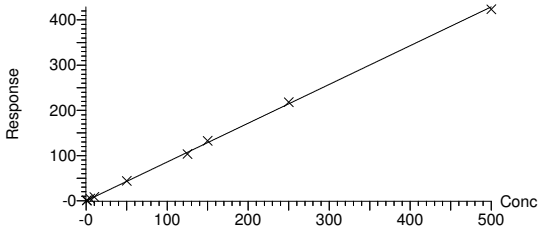
Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	105486.805	4685.706	0.518	103.6	0.888	152	14	1.17
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	109985.242	9944.646	1.054	105.4	0.904	358	39777	1.15
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	104239.750	49945.277	5.585	111.7	0.958	1959	1493	1.04
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	101094.977	86872.859	10.017	100.2	0.859	2485	3214	0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	92826.750	409066.531	51.371	102.7	0.881	9042	2580	1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	84901.406	877900.563	120.538	96.4	0.827	16762	6535	1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	82198.586	1090370.000	154.634	103.1	0.884	26036	15544	1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	74923.039	1633247.125	254.115	101.6	0.872	18176	5568	1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	66209.734	2803895.000	493.667	98.7	0.847	52614	17537	1.06

Compound name: PFDA
Coefficient of Determination: R^2 = 0.999475
Calibration curve: 0.857838 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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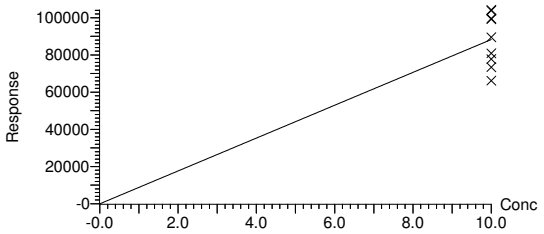
Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...		103829.906	11.760	117.6	10382.991	16120		0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...		104230.492	11.805	118.1	10423.049	27028		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...		99527.453	11.273	112.7	9952.745	19482		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...		99233.398	11.239	112.4	9923.340	36690		0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...		89579.898	10.146	101.5	8957.990	34795		0.98
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...		80832.117	9.155	91.6	8083.212	33177		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...		77816.188	8.814	88.1	7781.619	19275		1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...		73446.680	8.319	83.2	7344.668	25437		0.99
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...		66126.813	7.490	74.9	6612.681	16215		1.03

Compound name: M2PFDA
Response Factor: 8829.14
RRF SD: 1423.09, % Relative SD: 16.1181
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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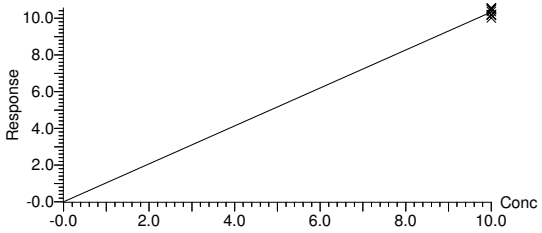
Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	103829.906	105486.805	9.830	98.3	1.016	4853		1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	104230.492	109985.242	10.210	102.1	1.055	6939		1.06
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	99527.453	104239.750	10.134	101.3	1.047	6601		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	99233.398	101094.977	9.857	98.6	1.019	19676		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	89579.898	92826.750	10.027	100.3	1.036	15009		0.95
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	80832.117	84901.406	10.163	101.6	1.050	1747		0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	77816.188	82198.586	10.221	102.2	1.056	7076		1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	73446.680	74923.039	9.870	98.7	1.020	14482		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	66126.813	66209.734	9.688	96.9	1.001	3663		1.02

Compound name: M6PFDA
Response Factor: 1.0335
RRF SD: 0.0200603, % Relative SD: 1.94099
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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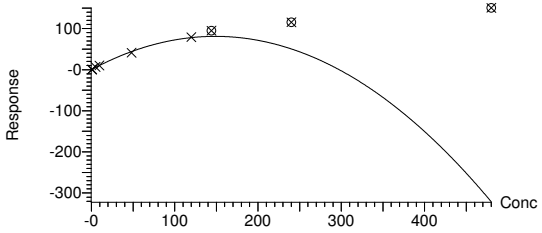
Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	3535.170	206.802	0.538	112.0	1.219	54		1.30
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	3740.494	354.823	0.873	90.9	0.988	60		1.18
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	3681.261	2398.694	6.103	127.1	1.357	55942		1.05
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	3572.389	3723.282	9.890	103.0	1.086	88711		1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	4282.424	17680.184	44.549	92.8	0.860	408290		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	4755.468	37557.445	124.992	104.2	0.658	855186		1.07
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	4958.818	47138.504			0.660	22817		1.11
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	6317.642	72996.211			0.481	5819		1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	8145.643	122449.109			0.313	4892		1.11

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.994263
Calibration curve: -0.00366564 * x^2 + 1.09004 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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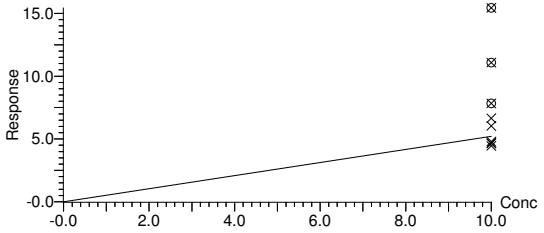
Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	7620.767	3535.170	8.903	89.0	0.464	69325		1.02
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	7797.159	3740.494	9.207	92.1	0.480	291		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	8269.742	3681.261	8.544	85.4	0.445	405		1.05
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	7629.751	3572.389	8.987	89.9	0.468	1911		0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	7090.403	4282.424	11.592	115.9	0.604	83195		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	7149.182	4755.468	12.767	127.7	0.665	891		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	6324.697	4958.818	15.048	150.5	0.784	100651		1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	5696.930	6317.642	21.284	212.8	1.109	129365		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	5276.689	8145.643	29.628	296.3	1.544	164641		1.03

Compound name: M2-8:2FTS
Response Factor: 0.521022
RRF SD: 0.0907487, % Relative SD: 17.4175
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

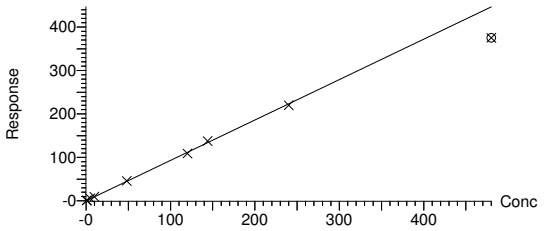
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.6...	7863.209	306.160	0.419	87.2	0.811	12	8899	1.15
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.6...	8337.590	842.429	1.086	113.1	1.052	70	256	1.40
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.6...	7856.718	4373.127	5.984	124.7	1.160	2375	78894	0.92
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.6...	7611.157	7010.277	9.902	103.1	0.959	160780	136329	0.94
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.6...	7647.324	34940.902	49.120	102.3	0.952	4532	1399	0.94
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.6...	6866.474	74579.766	116.767	97.3	0.905	5435	9027	0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	6560.688	90355.602	148.060	102.8	0.956	27749	1627883	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.6...	5910.273	130020.867	236.503	98.5	0.917	17714	4054	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.6...	5658.023	212194.906	403.183	84.0	0.781	21595	23707	1.02

Compound name: PFNS
Coefficient of Determination: R^2 = 0.998898
Calibration curve: 0.930183 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

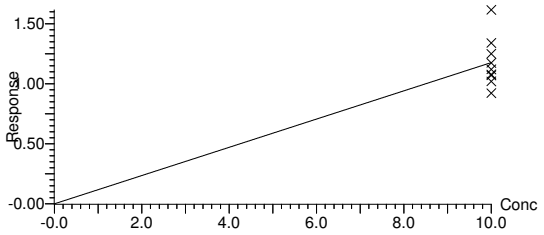
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.9...	103829.906	9575.763	7.836	78.4	0.092	308		0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.9...	104230.492	11161.044	9.098	91.0	0.107	219724		0.97
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.9...	99527.453	10155.847	8.669	86.7	0.102	3683		1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.9...	99233.398	10699.074	9.160	91.6	0.108	1878		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.9...	89579.898	10035.015	9.518	95.2	0.112	566		1.02
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.9...	80832.117	9496.166	9.981	99.8	0.117	188703		0.98
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.9...	77816.188	9724.458	10.617	106.2	0.125	192845		0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.9...	73446.680	9845.680	11.389	113.9	0.134	2041		1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.9...	66126.813	10688.211	13.732	137.3	0.162	1840		0.99

Compound name: d3-NMeFOSAA
Response Factor: 0.117702
RRF SD: 0.0205764, % Relative SD: 17.4818
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

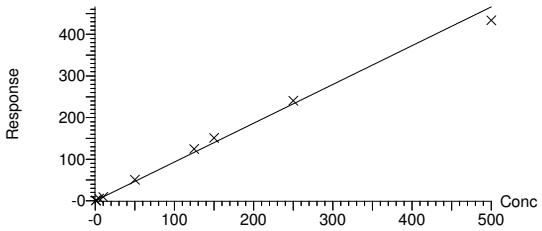
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		9575.763							
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		11161.044							
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		10155.847							
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		10699.074							
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		10035.015							
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		9496.166							
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9724.458							
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		9845.680							
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		10688.211						2	

Compound name: L-NMeFOSAA
Coefficient of Determination: R^2 = 0.995480
Calibration curve: 0.931991 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

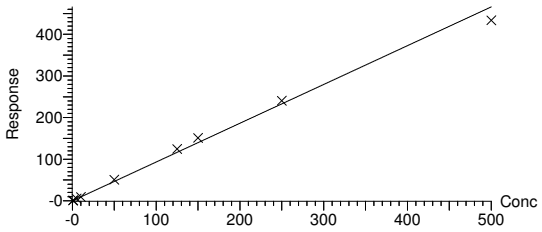
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.9...	9575.763	324.541	0.364	72.7	0.678	7	22	1.05
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.9...	11161.044	1166.739	1.122	112.2	1.045	17132	8	0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.9...	10155.847	5530.176	5.843	116.9	1.089	1686	28880	1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.9...	10699.074	9818.126	9.846	98.5	0.918	2994	52535	0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.9...	10035.015	51048.320	54.582	109.2	1.017	2351	487	0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.9...	9496.166	118338.813	133.711	107.0	0.997	4519	15054	1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.9...	9724.458	146964.844	162.157	108.1	1.008	4558	447	0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.9...	9845.680	236955.250	258.231	103.3	0.963	7059	10078	1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.9...	10688.211	463842.188	465.644	93.1	0.868	11998	6925	0.96

Compound name: L-NMeFOSAA
Coefficient of Determination: R^2 = 0.995480
Calibration curve: 0.931991 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

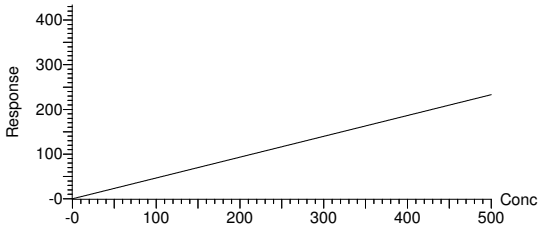
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		9575.763	324.541	0.364					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		11161.044	1166.739	1.122					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		10155.847	5530.176	5.843					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		10699.074	9818.126	9.846					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		10035.015	51048.320	54.582					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		9496.166	118338.813	133.711					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9724.458	146964.844	162.157					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		9845.680	236955.250	258.231					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		10688.211	463842.188	465.644					

Compound name: NMeFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.465995 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

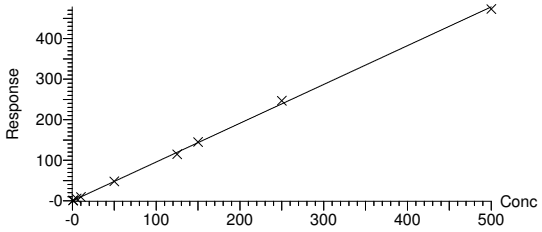
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.117	101992.055	4611.769	0.473	94.6	0.904	115	10041	1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.122	101388.047	10026.410	1.034	103.4	0.989	330	35178	1.07
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.117	97997.672	51117.012	5.455	109.1	1.043	1178	398	0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.112	93371.281	88904.188	9.957	99.6	0.952	2037	251288	1.07
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.117	82849.375	396062.781	49.990	100.0	0.956	10506	24547	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.112	71788.461	824707.938	120.130	96.1	0.919	19883	2311444	1.09
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.112	69882.930	1013266.063	151.620	101.1	0.967	26453	21061	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.112	61087.184	1508727.250	258.265	103.3	0.988	32170	8460	1.09
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.112	54794.387	2591577.000	494.577	98.9	0.946	37276	9772	1.14

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999453
Calibration curve: 0.956301 * x
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

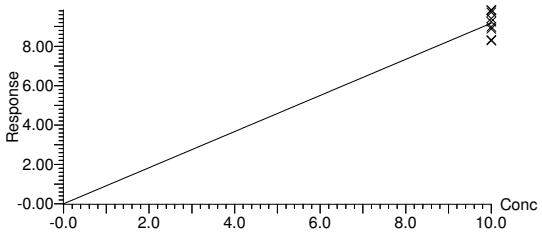
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.118	103829.906	101992.055	10.713	107.1	0.982	3734		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.123	104230.492	101388.047	10.609	106.1	0.973	6468		1.03
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.113	99527.453	97997.672	10.739	107.4	0.985	3765		1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.113	99233.398	93371.281	10.262	102.6	0.941	16231		1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.118	89579.898	82849.375	10.087	100.9	0.925	5955		1.02
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.113	80832.117	71788.461	9.686	96.9	0.888	1384858		1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.113	77816.188	69882.930	9.795	97.9	0.898	2851		1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.113	73446.680	61087.184	9.071	90.7	0.832	2216		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.113	66126.813	54794.387	9.037	90.4	0.829	2563		1.08

Compound name: M7-PFUDA
Response Factor: 0.916885
RRF SD: 0.0600555, % Relative SD: 6.54995
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

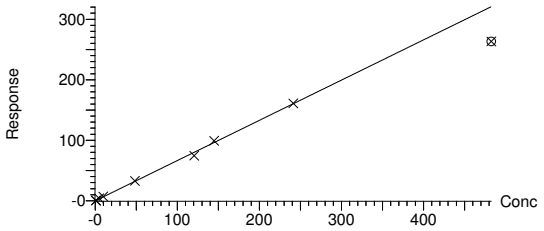
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.123	7863.209	242.685	0.464	96.2	0.640	5894	6	1.58
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.133	8337.590	482.343	0.870	90.2	0.599	35	132	1.25
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.128	7856.718	3124.329	5.981	124.0	0.824	73500	81546	0.97
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.123	7611.157	5332.887	10.538	109.2	0.726	124985	1343	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.128	7647.324	25123.271	49.411	102.4	0.681	1473	1913	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.123	6866.474	51137.266	112.012	92.9	0.617	44971	2446	1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.123	6560.688	65178.430	149.422	103.2	0.686	3491	1062	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.123	5910.273	95134.438	242.098	100.4	0.667	7675	3091	1.08
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.128	5658.023	148916.188	395.857	82.0	0.545	9282	21096	1.02

Compound name: PFDS
Coefficient of Determination: R^2 = 0.997891
Calibration curve: 0.664874 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

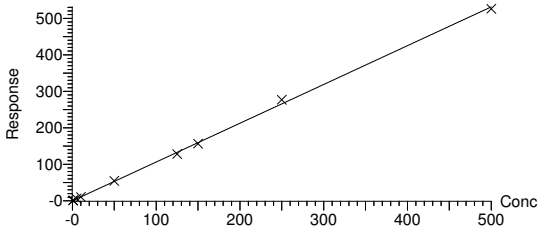
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.011	22949.115	942.301	0.386	77.3	0.821	22594		0.94
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.011	22475.113	2798.189	1.172	117.2	1.245	908		1.21
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.006	22388.170	12992.135	5.461	109.2	1.161	2604	22	1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.006	23068.303	23946.777	9.769	97.7	1.038	7062	25	1.02
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.011	21401.279	116432.289	51.200	102.4	1.088	4222	115	1.06
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.005	20660.598	264460.531	120.464	96.4	1.024	8490	57	1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.006	21330.230	333811.938	147.280	98.2	1.043	9509	58640	1.08
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.010	19354.936	535815.375	260.532	104.2	1.107	9601	143	1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.010	18051.570	949921.375	495.235	99.0	1.052	9851	157929	1.11

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999218
Calibration curve: 1.06258 * x
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

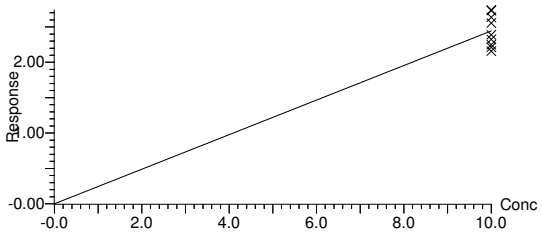
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.006	103829.906	22949.115	9.045	90.5	0.221	1034		1.07
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.011	104230.492	22475.113	8.824	88.2	0.216	3033		1.03
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.006	99527.453	22388.170	9.206	92.1	0.225	1670		0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.006	99233.398	23068.303	9.513	95.1	0.232	946		1.00
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.011	89579.898	21401.279	9.777	97.8	0.239	1986		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.006	80832.117	20660.598	10.460	104.6	0.256	872		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.006	77816.188	21330.230	11.218	112.2	0.274	4434		1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.006	73446.680	19354.936	10.784	107.8	0.264	361072		1.08
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.011	66126.813	18051.570	11.172	111.7	0.273	4636		1.06

Compound name: M8FOSA
Response Factor: 0.244354
RRF SD: 0.0226829, % Relative SD: 9.28279
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

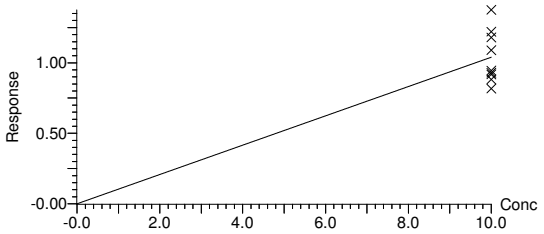
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.248	103829.906	8483.435	7.858	78.6	0.082	1030		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.252	104230.492	9857.291	9.096	91.0	0.095	3828		1.05
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.243	99527.453	9136.918	8.829	88.3	0.092	1068		1.15
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.243	99233.398	9223.351	8.939	89.4	0.093	1583		1.06
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.248	89579.898	7892.435	8.474	84.7	0.088	178651		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.243	80832.117	8802.899	10.474	104.7	0.109	1769		1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.243	77816.188	9185.745	11.353	113.5	0.118	1731		1.10
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.243	73446.680	8969.788	11.746	117.5	0.122	710		1.10
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.248	66126.813	9096.541	13.230	132.3	0.138	693		1.08

Compound name: d5-NEtFOSAA
Response Factor: 0.103974
RRF SD: 0.0186608, % Relative SD: 17.9476
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

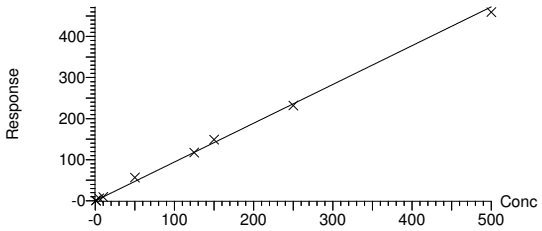
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		8483.435							
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		9857.291							
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		9136.918							
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		9223.351							
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		7892.435							
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		8802.899							
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9185.745						3	
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		8969.788						2	
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		9096.541							

Compound name: L-NEtFOSAA
Coefficient of Determination: R^2 = 0.997234
Calibration curve: 0.944028 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

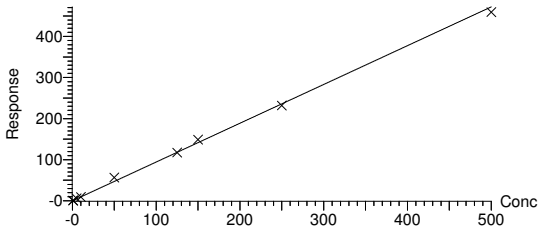
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.257	8483.435	426.209	0.532	106.4	1.005	62	2747	0.87
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.262	9857.291	836.497	0.899	89.9	0.849	34	8746	1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.252	9136.918	5153.751	5.975	119.5	1.128	1752	345	1.16
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.252	9223.351	8885.692	10.205	102.1	0.963	687	385	0.95
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.257	7892.435	44566.316	59.815	119.6	1.129	1964	400594	1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.252	8802.899	103539.305	124.593	99.7	0.941	4441	1784	1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.252	9185.745	136568.641	157.490	105.0	0.991	5806	2187	1.02
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.252	8969.788	207895.938	245.516	98.2	0.927	6928	3432	1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.252	9096.541	417755.188	486.475	97.3	0.918	10854	4433	1.14

Compound name: L-NEtFOSAA
Coefficient of Determination: R^2 = 0.997234
Calibration curve: 0.944028 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

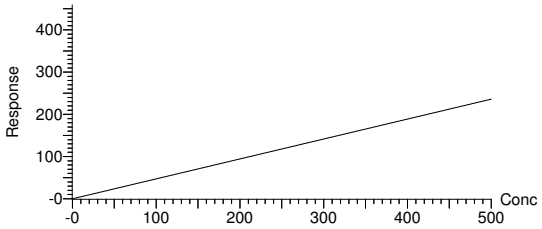
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		8483.435	426.209	0.532					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		9857.291	836.497	0.899					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		9136.918	5153.751	5.975					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		9223.351	8885.692	10.205					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		7892.435	44566.316	59.815					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		8802.899	103539.305	124.593					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9185.745	136568.641	157.490					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		8969.788	207895.938	245.516					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		9096.541	417755.188	486.475					

Compound name: NEtFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.472014 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

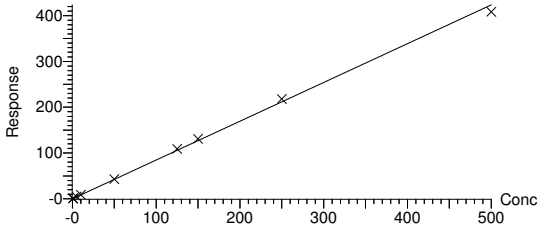
Quantify Compound Summary Report **MassLynx V4.2 SCN977**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.593	103376.742	4841.695	0.553	110.6	0.937	139	7515	1.07
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.598	103352.375	9531.423	1.089	108.9	0.922	278	18864	0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.589	103349.367	48924.336	5.589	111.8	0.947	1385	869	1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.589	96274.898	85750.094	10.516	105.2	0.891	2452	3838	0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.589	95651.234	409028.406	50.488	101.0	0.855	11691	724138	1.11
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.585	81334.875	888518.938	128.977	103.2	0.874	14901	1941	1.06
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.585	83380.609	1093507.375	154.839	103.2	0.874	23865	8361	1.09
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.585	76995.367	1677289.500	257.198	102.9	0.871	31976	13513	1.09
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.585	70623.688	2884692.250	482.251	96.5	0.817	56108	4560	1.12

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998842
Calibration curve: 0.846986 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

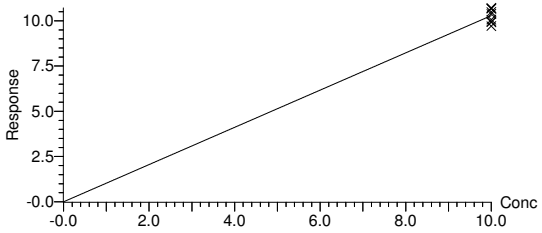
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.594	103829.906	103376.742	9.679	96.8	0.996	4969		1.00
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.598	104230.492	103352.375	9.640	96.4	0.992	8544		0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.589	99527.453	103349.367	10.095	101.0	1.038	5335		1.00
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.589	99233.398	96274.898	9.432	94.3	0.970	5623		0.96
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.589	89579.898	95651.234	10.381	103.8	1.068	6934		1.08
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.585	80832.117	81334.875	9.782	97.8	1.006	4941		1.02
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.585	77816.188	83380.609	10.417	104.2	1.072	6682		1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.585	73446.680	76995.367	10.191	101.9	1.048	1088		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.585	66126.813	70623.688	10.383	103.8	1.068	5402		1.08

Compound name: MPFDOA
Response Factor: 1.02862
RRF SD: 0.0383792, % Relative SD: 3.73112
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

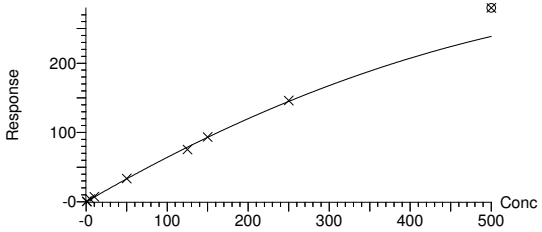
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.0...	103376.742	3858.038	0.548	109.5	0.746	123	39	1.09
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.0...	103352.375	8870.826	1.260	126.0	0.858	278	40	0.93
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.0...	103349.367	40715.777	5.800	116.0	0.788	999	458	0.90
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.0...	96274.898	69474.719	10.654	106.5	0.722	2464	783	0.90
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.0...	95651.234	320247.500	50.655	101.3	0.670	7284	2277	0.97
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.0...	81334.875	612946.750	119.054	95.2	0.603	13464	3496	0.91
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.0...	83380.609	780708.688	151.037	100.7	0.624	17843	4869	0.94
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.0...	76995.367	1125203.250	252.665	101.1	0.585	24166	5063	0.97
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.0...	70623.688	1976668.125	730.913	146.2	0.560	38522	10063	0.97

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998963
Calibration curve: -0.000408704 * x^2 + 0.681656 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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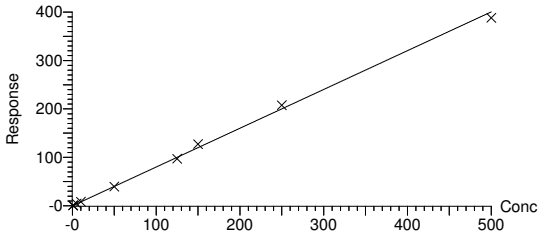
Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.3...	84304.094	3678.555	0.545	109.0	0.873	142	38	1.09
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.3...	83480.063	7615.251	1.139	113.9	0.912	284	23020	1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.3...	79194.773	35875.270	5.657	113.1	0.906	1214	612	1.00
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.3...	75865.328	63347.266	10.427	104.3	0.835	2110	173581	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.3...	73974.609	294391.063	49.694	99.4	0.796	7502	4351	1.12
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.3...	66841.781	649347.938	121.308	97.0	0.777	20638	2554	1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.3...	65493.922	832831.875	158.787	105.9	0.848	20542	10693	1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.3...	60380.074	1254325.750	259.404	103.8	0.831	29832	9847	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.3...	57111.117	2216106.000	484.540	96.9	0.776	46140	13707	1.12

Compound name: PFTA
Coefficient of Determination: R^2 = 0.998513
Calibration curve: 0.80083 * x
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

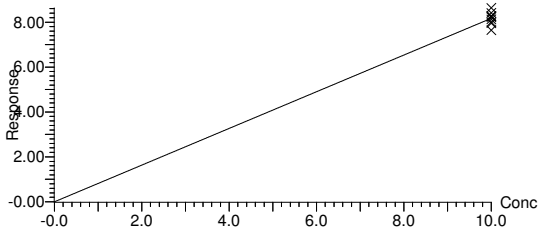
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.3...	103829.906	84304.094	9.938	99.4	0.812	5616		1.07
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.3...	104230.492	83480.063	9.803	98.0	0.801	11763		1.11
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.3...	99527.453	79194.773	9.739	97.4	0.796	8009		1.09
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.3...	99233.398	75865.328	9.357	93.6	0.765	3451		1.10
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.3...	89579.898	73974.609	10.107	101.1	0.826	4377		1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.3...	80832.117	66841.781	10.121	101.2	0.827	1339		1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.3...	77816.188	65493.922	10.301	103.0	0.842	18247		1.08
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.3...	73446.680	60380.074	10.062	100.6	0.822	11843		1.06
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.3...	66126.813	57111.117	10.571	105.7	0.864	13106		1.10

Compound name: M2PFTEDA
Response Factor: 0.817023
RRF SD: 0.0284579, % Relative SD: 3.48313
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

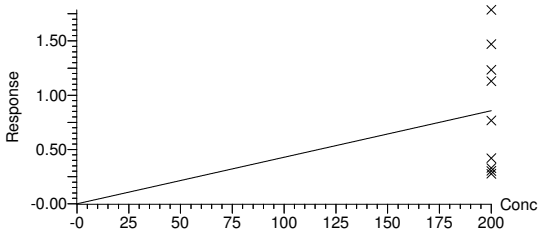
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	7.426	117636.820	3251.888	64.481	32.2	0.001	973		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.436	114802.125	3469.083	70.486	35.2	0.002	70952		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	7.423	113627.328	3737.527	76.726	38.4	0.002	93		0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	7.423	114891.016	4822.583	97.911	49.0	0.002	99973		0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	7.417	107343.031	8242.578	179.113	89.6	0.004	5169		1.10
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	7.403	101103.344	11428.816	263.678	131.8	0.006	222317		1.18
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	7.403	97990.719	12096.718	287.953	144.0	0.006	228130		1.17
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	7.393	96048.547	14124.396	343.019	171.5	0.007	244179		1.27
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	7.371	87971.789	15712.972	416.633	208.3	0.009	984		1.69

Compound name: M3HFPO-DA
Response Factor: 0.00428708
RRF SD: 0.00283937, % Relative SD: 66.2309
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

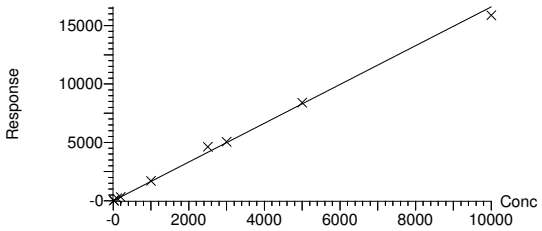
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	7.427	3251.888	238.749	8.842	88.4	1.468	3	1148	0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.444	3469.083	409.914	14.231	71.2	1.182	9322	19	0.72
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	7.424	3737.527	3728.507	120.149	120.1	1.995	2114	27395	1.04
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	7.421	4822.583	8056.205	201.196	100.6	1.671	1404	69032	1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	7.418	8242.578	69989.242	1022.673	102.3	1.698	1569559	571683	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	7.405	11428.816	264458.719	2786.926	111.5	1.851	45709	2048472	1.17
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	7.405	12096.718	306093.281	3047.579	101.6	1.687	23988	18756	1.20
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	7.391	14124.396	593297.063	5059.075	101.2	1.680	210742	3997418	1.44
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	7.372	15712.972	1248449.625	9569.328	95.7	1.589	77760	7046169	1.78

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.997230
Calibration curve: 1.66059 * x
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

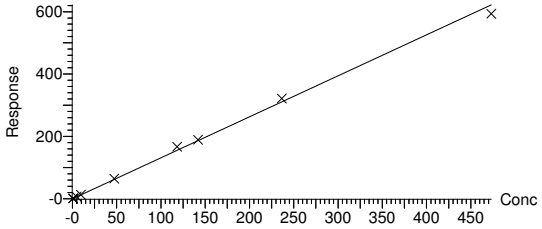
Quantify Compound Summary Report **MassLynx V4.2 SCN977**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.437	114742.953	6287.492	0.417	88.1	1.158	1172		1.00
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.447	115929.242	15121.663	0.992	104.9	1.379	2464		1.02
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.433	112562.227	76970.492	5.201	109.9	1.445	2596		1.06
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.433	109470.945	142938.625	9.932	105.0	1.380	10601		1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.440	106781.555	687811.313	48.997	103.6	1.362	19504		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.433	98244.656	1641867.125	127.123	107.5	1.413	55292		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.433	98053.172	1853079.125	143.757	101.3	1.332	72891		1.02
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.437	90653.047	2918572.000	244.897	103.5	1.361	74345		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.433	85048.031	5047635.000	451.460	95.4	1.255	47725		1.09

Compound name: ADONA
Coefficient of Determination: R^2 = 0.997914
Calibration curve: 1.31463 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

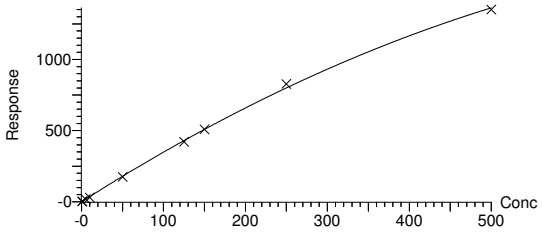
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.7...	18213.158	3366.715	0.503	100.6	3.697	505		1.05
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.7...	17328.859	6644.953	1.044	104.4	3.835	928		1.21
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.7...	16612.740	31167.045	5.116	102.3	3.752	3623		1.30
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.7...	19278.168	56900.813	8.061	80.6	2.952	6732		1.20
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.7...	15306.165	269633.094	49.164	98.3	3.523	29792		1.14
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.7...	13694.694	578244.250	122.629	98.1	3.378	52689		1.26
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.7...	13524.559	689195.813	150.297	100.2	3.397	73549		1.18
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.7...	12594.792	1043086.625	260.356	104.1	3.313	94086		1.22
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.7...	11692.363	1578940.250	493.304	98.7	2.701	166713		1.17

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999095
Calibration curve: -0.00190397 * x^2 + 3.6767 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
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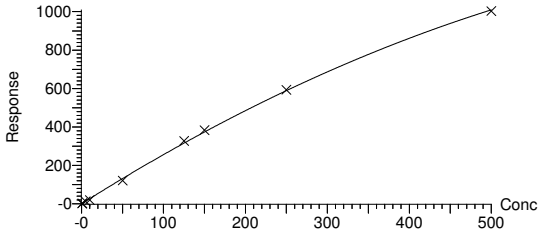
Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.9...	18213.158	1986.248	0.405	81.0	2.181	233		0.97
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.9...	17328.859	4022.923	0.862	86.2	2.322	398		1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.9...	16612.740	20393.104	4.568	91.4	2.455	1868		1.12
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.9...	19278.168	38946.125	7.529	75.3	2.020	3365		1.16
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.9...	15306.165	185708.469	46.110	92.2	2.427	18932		1.21
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.9...	13694.694	447829.469	129.854	103.9	2.616	34969		0.96
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.9...	13524.559	517897.969	154.059	102.7	2.553	44245		1.09
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.9...	12594.792	747346.625	252.158	100.9	2.374	68089		1.14
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.9...	11692.363	1172348.500	495.065	99.0	2.005	1863		1.27

Compound name: PFODA
Coefficient of Determination: R^2 = 0.998424
Calibration curve: -0.00134983 * x^2 + 2.69357 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

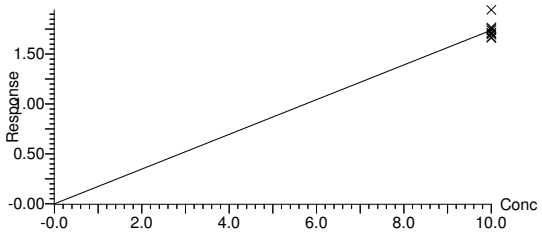
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.7...	103829.906	18213.158	10.086	100.9	0.175	5928		1.19
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.7...	104230.492	17328.859	9.560	95.6	0.166	22620		1.19
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.7...	99527.453	16612.740	9.598	96.0	0.167	4836		1.15
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.7...	99233.398	19278.168	11.170	111.7	0.194	15355		1.24
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.7...	89579.898	15306.165	9.825	98.2	0.171	2825		1.12
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.7...	80832.117	13694.694	9.742	97.4	0.169	7300		1.26
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.7...	77816.188	13524.559	9.993	99.9	0.174	28		1.16
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.7...	73446.680	12594.792	9.860	98.6	0.171	7852		1.17
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.7...	66126.813	11692.363	10.167	101.7	0.177	2573		1.22

Compound name: M2PFHxDA
Response Factor: 0.173916
RRF SD: 0.00842697, % Relative SD: 4.84542
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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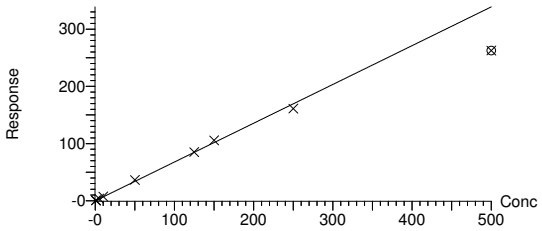
Compound name: PFDoS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.997	7863.209	278.948	0.523	104.7	0.710	93	30	0.75
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.0...	8337.590	611.248	1.082	108.2	0.733	11908	94	0.73
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.993	7856.718	2929.418	5.501	110.0	0.746	52599	28916	0.85
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.993	7611.157	5766.223	11.178	111.8	0.758	103350	54427	0.80
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.997	7647.324	28014.129	54.048	108.1	0.733	402	416	0.78
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.989	6866.474	58473.602	125.644	100.5	0.681	3172	1156	0.85
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.989	6560.688	69331.211	155.917	103.9	0.705	8238	1521	0.87
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.989	5910.273	95180.961	237.606	95.0	0.644	9536	5126	0.87
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.989	5658.023	148644.109	387.613	77.5	0.525	9737	3816	0.88

Compound name: PFDoS
Coefficient of Determination: R^2 = 0.997593
Calibration curve: 0.677774 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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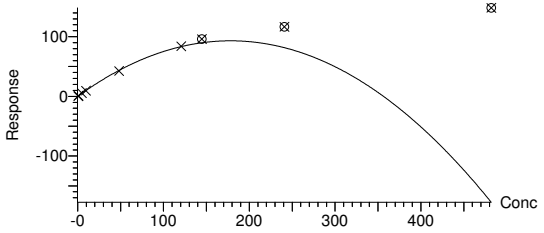
Compound name: 10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.610	3535.170	161.659	0.438	90.9	0.949	4		0.93
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.615	3740.494	464.091	1.191	123.5	1.287	92		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.602	3681.261	2106.882	5.561	115.4	1.187	40717		0.96
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.602	3572.389	3399.108	9.346	96.9	0.987	152		1.02
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.606	4282.424	18204.355	46.805	97.1	0.882	2155		0.96
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.602	4755.468	39855.957	121.752	101.0	0.696	749660		0.93
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.602	4958.818	47687.137			0.665	638		0.97
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.602	6317.642	73627.555			0.484	1060		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.602	8145.643	120840.695			0.308	46485		0.98

Compound name: 10:2FTS
Coefficient of Determination: R^2 = 0.997942
Calibration curve: -0.00293343 * x^2 + 1.04552 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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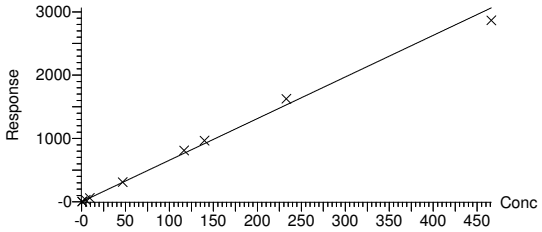
Compound name: 9CL-PF3ONS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.3...	7863.209	2189.338	0.424	90.9	5.975	105		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.3...	8337.590	4366.216	0.797	85.5	5.619	164		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.3...	7856.718	25231.883	4.887	104.9	6.892	1198		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.3...	7611.157	47425.988	9.481	101.7	6.686	2295		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.3...	7647.324	237445.078	47.245	101.4	6.663	14849		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.3...	6866.474	556615.500	123.346	105.9	6.958	24367		1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.3...	6560.688	635029.375	147.281	105.4	6.924	29977		1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.3...	5910.273	962077.688	247.688	106.3	6.986	41908		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.3...	5658.023	1621731.250	436.130	93.6	6.151	51120		1.03

Compound name: 9CL-PF3ONS
Coefficient of Determination: R^2 = 0.996306
Calibration curve: 6.57201 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

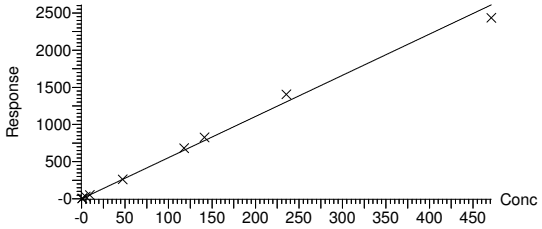
Quantify Compound Summary Report **MassLynx V4.2 SCN977**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: 11CL-PFOUdS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.388	7863.209	1756.393	0.403	85.6	4.742	25984		1.00
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.393	8337.590	4417.228	0.956	101.5	5.624	65545		0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.383	7856.718	21642.189	4.972	105.6	5.848	2548		1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.383	7611.157	39059.797	9.263	98.3	5.448	8974		1.00
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.388	7647.324	200296.078	47.274	100.4	5.561	12642		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.383	6866.474	466932.875	122.738	104.2	5.775	9285		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.383	6560.688	542068.938	149.130	105.5	5.847	21115		1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.383	5910.273	830742.500	253.699	107.7	5.969	41063		1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.388	5658.023	1378541.500	439.759	93.4	5.173	33235		0.96

Compound name: 11CL-PFOUdS
Coefficient of Determination: R^2 = 0.995887
Calibration curve: 5.5404 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

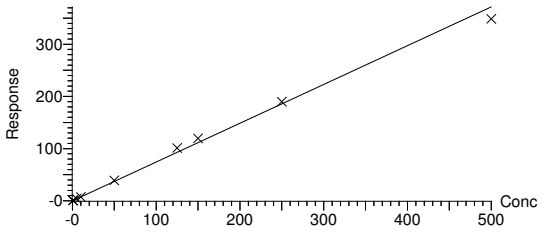
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.628	10818.715	384.162	0.478	95.6	0.710	125	68	0.95
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.624	10918.389	820.677	1.011	101.1	0.752	195	9328	1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.620	10805.029	4555.991	5.673	113.5	0.843	1070	53071	1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.620	11452.094	8668.560	10.184	101.8	0.757	527	1214	1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.624	11659.144	45476.523	52.480	105.0	0.780	2752	2221	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.620	10937.316	110688.570	136.165	108.9	0.810	4013	2943	1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.624	10578.706	126611.172	161.032	107.4	0.798	3996	2301	0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.624	10789.468	204880.891	255.491	102.2	0.760	6232	5461	1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.628	10956.525	381907.094	468.985	93.8	0.697	6666	9403	0.99

Compound name: NMeFOSA
Coefficient of Determination: R^2 = 0.996194
Calibration curve: 0.743235 * x
Response type: Internal Std (Ref 69), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

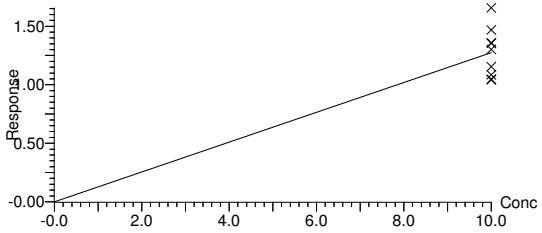
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d3-NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.616	103829.906	10818.715	8.176	81.8	0.104	981		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.620	104230.492	10918.389	8.220	82.2	0.105	418		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.612	99527.453	10805.029	8.519	85.2	0.109	789		1.08
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.616	99233.398	11452.094	9.056	90.6	0.115	1426		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.620	89579.898	11659.144	10.213	102.1	0.130	1008		0.96
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.616	80832.117	10937.316	10.618	106.2	0.135	479		0.98
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.616	77816.188	10578.706	10.668	106.7	0.136	2667		0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.616	73446.680	10789.468	11.528	115.3	0.147	813		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.620	66126.813	10956.525	13.002	130.0	0.166	989		1.02

Compound name: d3-NMeFOSA
Response Factor: 0.127435
RRF SD: 0.0210344, % Relative SD: 16.5059
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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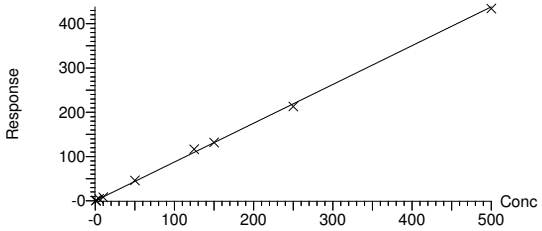
Compound name: NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.916	11992.311	291.889	0.278	55.6	0.487	35	8	1.23
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.924	10513.078	950.658	1.032	103.2	0.904	16167	2464	1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.920	10840.465	4897.970	5.157	103.1	0.904	826	162	1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.920	11690.228	9820.464	9.587	95.9	0.840	1432	25080	1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.924	10655.923	49116.805	52.606	105.2	0.922	2351	562	1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.920	10271.625	119958.141	133.286	106.6	0.934	4025	1054	1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.920	10793.446	142438.000	150.612	100.4	0.880	5314	4771	1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.920	10700.851	228133.797	243.312	97.3	0.853	6235	1669	1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.924	9807.835	425931.281	495.631	99.1	0.869	10705	3724	1.00

Compound name: NEtFOSA
Coefficient of Determination: R^2 = 0.999041
Calibration curve: 0.876209 * x
Response type: Internal Std (Ref 71), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

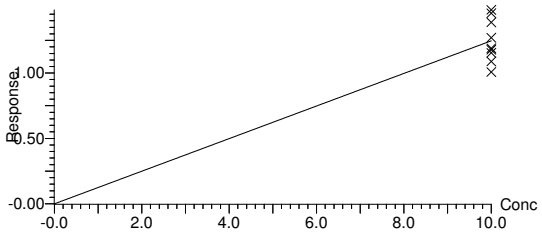
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d5-NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.912	103829.906	11992.311	9.266	92.7	0.115	896		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.916	104230.492	10513.078	8.092	80.9	0.101	343		1.01
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.912	99527.453	10840.465	8.738	87.4	0.109	567		0.95
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.912	99233.398	11690.228	9.451	94.5	0.118	1110		1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.912	89579.898	10655.923	9.543	95.4	0.119	1698		1.02
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.908	80832.117	10271.625	10.195	101.9	0.127	780		1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.908	77816.188	10793.446	11.128	111.3	0.139	283		1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.912	73446.680	10700.851	11.689	116.9	0.146	396		0.97
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.912	66126.813	9807.835	11.899	119.0	0.148	2196		1.03

Compound name: d5-NEtFOSA
Response Factor: 0.124648
RRF SD: 0.0165181, % Relative SD: 13.2517
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

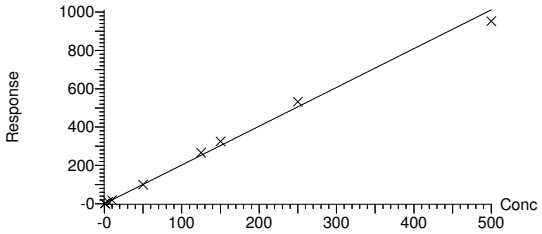
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS02	Ical Ref	:	ICAL16305
Calibration dates	:	11/18/19 10:24 11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.627	6181.065	439.839	0.352	70.4	1.423	42		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.631	5601.364	847.873	0.748	74.8	1.514	70		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.623	5583.996	5940.177	5.259	105.2	2.128	542		1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.623	5732.216	10782.405	9.298	93.0	1.881	746		1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.627	5433.837	54087.008	49.204	98.4	1.991	2768		1.01
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.623	4843.435	128959.344	131.619	105.3	2.130	2932		1.02
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.623	4724.134	153741.500	160.875	107.2	2.170	6049		1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.627	4616.492	245769.922	263.169	105.3	2.129	9707		1.00
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.631	4357.240	415137.313	470.976	94.2	1.906	5246		0.97

Compound name: NMeFOSE
Coefficient of Determination: R^2 = 0.996553
Calibration curve: 2.02293 * x
Response type: Internal Std (Ref 73), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

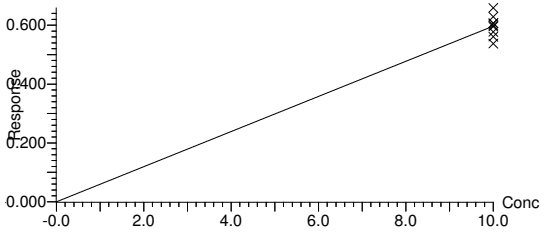
Client	: Soils Engineering Services, Inc.		Lab Number	: L2009793	
Project Name	: GROSSINGERS		Project Number	: 9313	
Instrument ID	: LCMS02		Ical Ref	: ICAL16305	
Calibration dates	: 11/18/19 10:24	11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d7-NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.610	103829.906	6181.065	9.974	99.7	0.060	246		1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.610	104230.492	5601.364	9.004	90.0	0.054	196		1.07
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.606	99527.453	5583.996	9.400	94.0	0.056	229		1.06
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.606	99233.398	5732.216	9.678	96.8	0.058	271		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.610	89579.898	5433.837	10.163	101.6	0.061	271		1.06
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.606	80832.117	4843.435	10.039	100.4	0.060	248		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.606	77816.188	4724.134	10.171	101.7	0.061	201		1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.610	73446.680	4616.492	10.531	105.3	0.063	294		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.610	66126.813	4357.240	11.040	110.4	0.066	262		1.07

Compound name: d7-NMeFOSE
Response Factor: 0.0596862
RRF SD: 0.00357941, % Relative SD: 5.99705
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

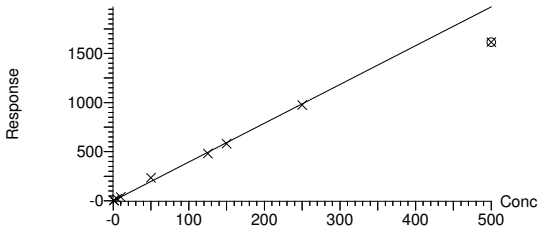
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS02	Ical Ref	: ICAL16305
Calibration dates	: 11/18/19 10:24 11/18/19 12:49		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.913	3594.417	567.950	0.400	80.1	3.160	9582		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.913	3264.972	1238.596	0.961	96.1	3.794	19982		1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.909	3288.860	6476.007	4.988	99.8	3.938	750		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.909	3120.817	12372.700	10.043	100.4	3.965	783		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.913	2782.245	65148.242	59.318	118.6	4.683	2943		1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.909	3094.809	148854.578	121.844	97.5	3.848	4737		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.909	3077.430	178591.047	147.011	98.0	3.869	6366		1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.909	2927.529	285368.000	246.934	98.8	3.899	5042		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.909	3114.293	502556.594	408.793	81.8	3.227	14003		1.06

Compound name: NEtFOSE
Coefficient of Determination: R^2 = 0.996634
Calibration curve: 3.9475 * x
Response type: Internal Std (Ref 75), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

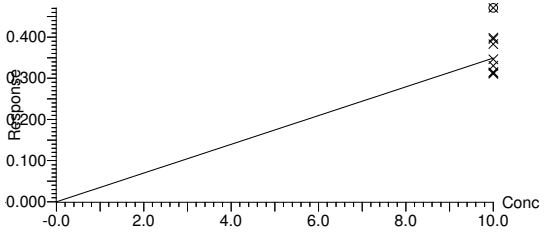
Client	: Soils Engineering Services, Inc.		Lab Number	: L2009793	
Project Name	: GROSSINGERS		Project Number	: 9313	
Instrument ID	: LCMS02		Ical Ref	: ICAL16305	
Calibration dates	: 11/18/19 10:24	11/18/19 12:49			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d9-NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.893	103829.906	3594.417	9.920	99.2	0.035	301		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.897	104230.492	3264.972	8.976	89.8	0.031	178		0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.889	99527.453	3288.860	9.469	94.7	0.033	211		1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.893	99233.398	3120.817	9.012	90.1	0.031	173		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.893	89579.898	2782.245	8.900	89.0	0.031	135		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.889	80832.117	3094.809	10.971	109.7	0.038	197		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.893	77816.188	3077.430	11.332	113.3	0.040	198		0.95
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.889	73446.680	2927.529	11.421	114.2	0.040	137		1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.893	66126.813	3114.293	13.495	135.0	0.047	162		1.01

Compound name: d9-NEtFOSE
Response Factor: 0.0348987
RRF SD: 0.00379155, % Relative SD: 10.8645
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

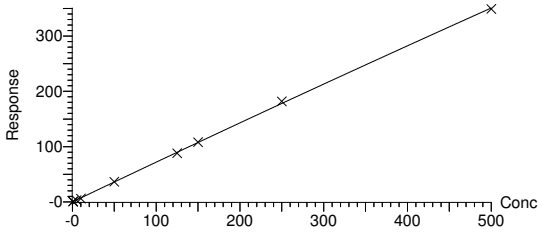
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Method: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\MethDB\537ISO_Q_200227 .mdb 27 Feb 2020 12:38:15
Calibration: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 09:12:40

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	2.253	48319.531	14811.046	4.236	84.7	0.613	7841		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	2.248	48815.305	30644.713	8.679	86.8	0.628	14887		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	2.242	45938.719	167812.766	50.630	101.3	0.731	47049		0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	2.237	44301.992	391222.625	122.941	98.4	0.706	73888		0.92
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	2.237	43835.754	473301.906	150.573	100.4	0.720	94877		0.88
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	2.231	42043.367	765723.938	255.646	102.3	0.729	148464		0.85
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	2.237	41222.156	1438832.625	497.417	99.5	0.698	91452		0.70
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	2.242	45001.730	1544.153	0.474	94.8	0.686	670		0.88
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	2.243	45026.121	2940.648	0.902	90.2	0.653	1666		0.89

Compound name: PFBA
Coefficient of Determination: R^2 = 0.999537
Calibration curve: -4.42845e-005 * x^2 + 0.723741 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

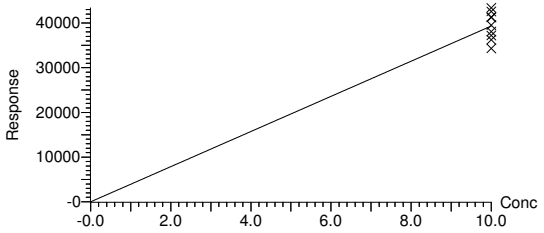
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	2.250		41335.754	10.512	105.1	4133.575	7214		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	2.244		41232.234	10.486	104.9	4123.223	3676		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	2.244		39499.469	10.045	100.5	3949.947	6575		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	2.239		38059.477	9.679	96.8	3805.948	18435		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	2.239		37209.055	9.463	94.6	3720.905	13815		0.84
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	2.239		36271.582	9.224	92.2	3627.158	10472		0.79
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	2.250		34339.520	8.733	87.3	3433.952	2929		0.63
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	2.244		42560.504	10.824	108.2	4256.050	26624		0.87
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	2.244		43387.879	11.034	110.3	4338.788	34328		0.85

Compound name: M3PFBA
Response Factor: 3932.17
RRF SD: 306.071, % Relative SD: 7.78377
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

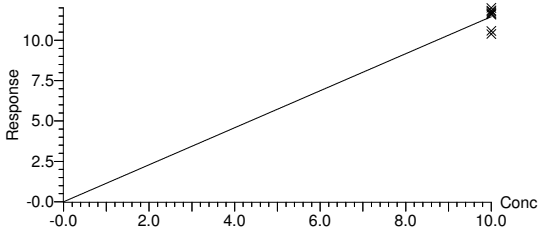
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	2.252	41335.754	48319.531	10.202	102.0	1.169	23733		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	2.246	41232.234	48815.305	10.332	103.3	1.184	148389		0.97
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	2.241	39499.469	45938.719	10.150	101.5	1.163	15967		0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	2.241	38059.477	44301.992	10.159	101.6	1.164	56598		0.87
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	2.241	37209.055	43835.754	10.281	102.8	1.178	30312		0.83
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	2.235	36271.582	42043.367	10.116	101.2	1.159	16177		0.80
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	2.246	34339.520	41222.156	10.476	104.8	1.200	24887		0.63
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	2.241	42560.504	45001.730	9.228	92.3	1.057	45632		0.88
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	2.241	43387.879	45026.121	9.057	90.6	1.038	65718		0.87

Compound name: MPFBA
Response Factor: 1.14585
RRF SD: 0.0573549, % Relative SD: 5.00544
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

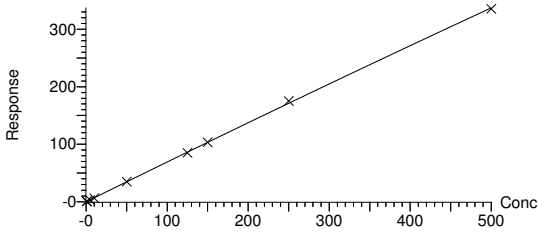
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.214	66965.297	19873.592	4.267	85.3	0.594	5136		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.209	66535.883	40988.703	8.861	88.6	0.616	11094		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.207	61818.520	216821.125	50.578	101.2	0.701	59009		0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.206	58331.801	496161.094	123.213	98.6	0.680	107836		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.207	57217.777	591135.188	149.905	99.9	0.689	135936		0.80
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.207	53491.770	936502.688	255.715	102.3	0.700	95057		0.75
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.207	50735.574	1701958.750	497.520	99.5	0.671	185285		0.59
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.204	61408.227	2211.104	0.518	103.5	0.720	485		0.90
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.209	61539.512	3950.195	0.923	92.3	0.642	1262		0.81

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.999602
Calibration curve: -4.29631e-005 * x^2 + 0.695633 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

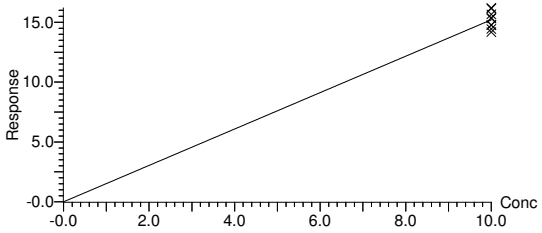
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.212	41335.754	66965.297	10.656	106.6	1.620	11354		0.99
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.208	41232.234	66535.883	10.614	106.1	1.614	11899		0.97
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.205	39499.469	61818.520	10.294	102.9	1.565	11409		0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.205	38059.477	58331.801	10.081	100.8	1.533	796		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.206	37209.055	57217.777	10.115	101.1	1.538	13622		0.80
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.206	36271.582	53491.770	9.701	97.0	1.475	5666		0.74
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.205	34339.520	50735.574	9.718	97.2	1.477	7455		0.61
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.205	42560.504	61408.227	9.491	94.9	1.443	6947		0.85
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.206	43387.879	61539.512	9.330	93.3	1.418	15985		0.84

Compound name: M5PFPEA
Response Factor: 1.52029
RRF SD: 0.0719607, % Relative SD: 4.73336
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

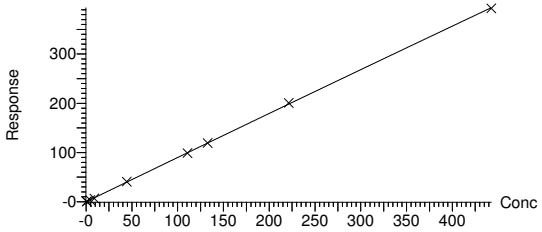
Client	: Soils Engineering Services, Inc.		Lab Number	: L2009793	
Project Name	: GROSSINGERS		Project Number	: 9313	
Instrument ID	: LCMS01		Ical Ref	: ICAL16567	
Calibration dates	: 02/27/20 14:02	02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.879	11904.475	3950.326	3.678	83.1	0.750	32	896	0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.872	11938.699	8430.388	7.828	88.5	0.798	4212	2319	0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.871	10926.120	44614.742	45.316	102.4	0.923	45541	6184	0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.870	10327.150	102270.000	110.111	99.5	0.895	19205	10965	0.86
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.872	10162.224	121367.359	132.882	100.1	0.900	23094	13425	0.77
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.872	9545.156	191488.766	223.808	101.2	0.907	10197	18037	0.72
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.871	8726.213	342903.594	441.215	99.7	0.888	58178	26974	0.56
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.866	10848.066	376.407	0.385	86.9	0.784	114	43	1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.874	11021.960	750.290	0.754	85.3	0.769	108	125	0.76

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999644
Calibration curve: -2.63872e-005 * x^2 + 0.902271 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

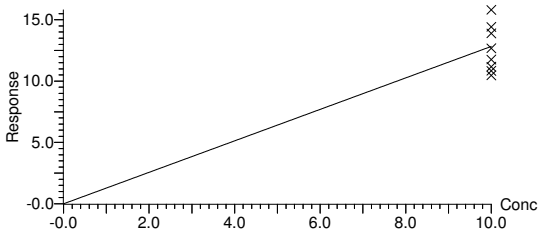
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.875	9391.129	11904.475	9.881	98.8	1.268	3549		1.01
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.872	10693.415	11938.699	8.703	87.0	1.116	2354		0.96
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.870	7867.362	10926.120	10.826	108.3	1.389	4067		0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.870	8781.861	10327.150	9.167	91.7	1.176	622		0.83
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.872	7044.307	10162.224	11.245	112.5	1.443	3115		0.75
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.872	6617.794	9545.156	11.243	112.4	1.442	1820		0.70
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.870	5519.950	8726.213	12.323	123.2	1.581	533		0.57
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.868	10009.636	10848.066	8.448	84.5	1.084	1523		0.84
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.870	10521.385	11021.960	8.166	81.7	1.048	6602		0.82

Compound name: M3PFBS
Response Factor: 1.28289
RRF SD: 0.188854, % Relative SD: 14.721
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

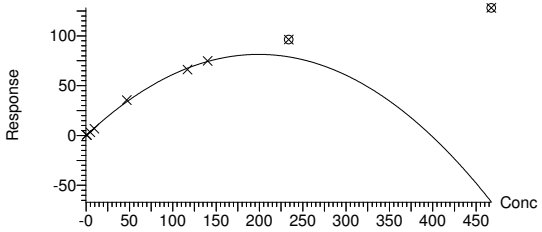
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.054	5134.135	1758.998	4.234	90.6	0.733	115	97	0.99
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.047	5498.780	3755.704	8.534	91.3	0.730	76365	410	1.16
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.047	5880.164	20977.158	49.864	106.7	0.763	36776	372	1.04
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.047	7283.949	48273.207	113.234	96.9	0.567	4792	5865	0.96
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.047	7855.275	58728.438	142.184	101.4	0.533	10048	2917	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.044	9988.708	96127.430			0.412	12322	15570	0.93
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.036	13942.268	178618.781			0.274	36539	11504	0.86
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.047	4735.668	182.277	0.471	100.8	0.823	14	9	1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.047	4760.724	294.253	0.757	81.0	0.661	25	187	1.13

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.998242
Calibration curve: -0.0020539 * x^2 + 0.817851 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

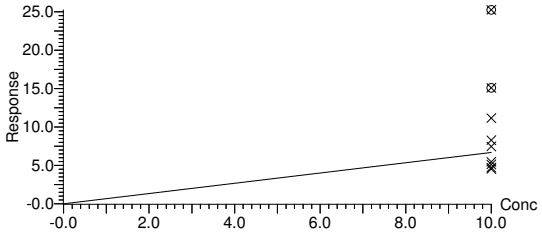
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.054	9391.129	5134.135	8.180	81.8	0.547	2385		1.08
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.049	10693.415	5498.780	7.694	76.9	0.514	1125		0.97
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.050	7867.362	5880.164	11.183	111.8	0.747	117849		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.045	8781.861	7283.949	12.410	124.1	0.829	2128		0.99
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.049	7044.307	7855.275	16.685	166.8	1.115	589		0.92
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.044	6617.794	9988.708	22.583	225.8	1.509	25		0.92
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.039	5519.950	13942.268	37.791	377.9	2.526	3356		0.82
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.043	10009.636	4735.668	7.079	70.8	0.473	1947		1.09
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.044	10521.385	4760.724	6.770	67.7	0.452	89921		1.03

Compound name: M2-4:2FTS
Response Factor: 0.668354
RRF SD: 0.243268, % Relative SD: 36.3981
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

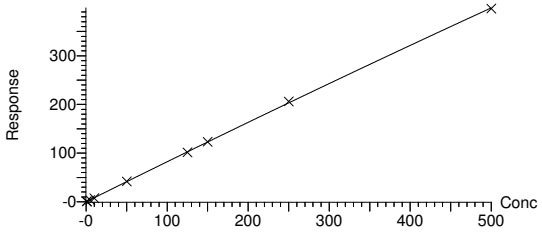
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.135	76999.281	27586.533	4.323	86.5	0.717	919	55	1.04
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.127	78150.375	57574.105	8.893	88.9	0.737	2491	274	1.05
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.128	71174.070	298865.250	50.854	101.7	0.840	9760	1002	1.07
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.126	65382.211	663067.563	123.517	98.8	0.811	17489	2422	1.04
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.129	63412.773	781257.250	150.369	100.2	0.821	21067	1471	0.96
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.125	59290.266	1222655.750	253.744	101.5	0.825	39226	4847	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.117	53405.371	2120807.250	498.267	99.7	0.794	44683	9874	0.92
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.126	72987.602	3317.243	0.548	109.7	0.909	185		1.00
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.125	73498.398	5980.390	0.982	98.2	0.814	343	37	1.04

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.999697
Calibration curve: -6.42018e-005 * x^2 + 0.828982 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

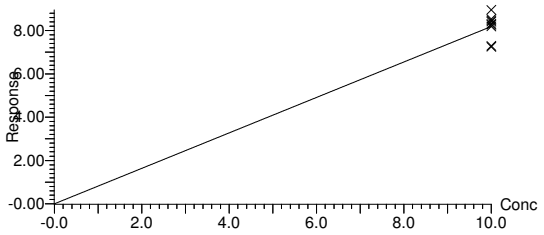
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.135	93068.188	76999.281	10.105	101.1	0.827	24396		1.00
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.127	95398.117	78150.375	10.006	100.1	0.819	8457		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.128	84037.695	71174.070	10.345	103.4	0.847	14066		1.00
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.126	78699.977	65382.211	10.147	101.5	0.831	7348		1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.127	75403.938	63412.773	10.272	102.7	0.841	1441		0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.123	69458.313	59290.266	10.426	104.3	0.854	4428		1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.117	59631.082	53405.371	10.939	109.4	0.896	2816		0.92
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.126	100127.297	72987.602	8.904	89.0	0.729	17513		0.99
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.125	101367.383	73498.398	8.856	88.6	0.725	17149		0.96

Compound name: M5PFHxA
Response Factor: 0.818717
RRF SD: 0.0564222, % Relative SD: 6.89154
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

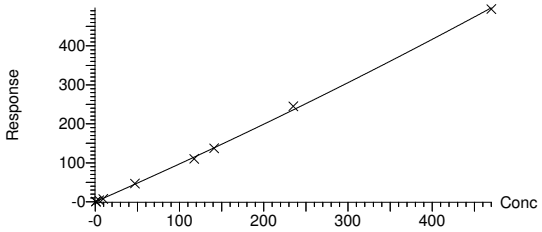
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.451	11194.032	4435.511	4.172	88.8	0.843	95754	872	1.01
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.441	12271.508	9210.342	7.896	84.0	0.798	3106	151	1.00
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.439	10437.030	48996.762	48.892	104.0	0.999	8232	457748	1.08
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.437	9613.386	106015.398	113.087	96.2	0.939	28573	5943	1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.436	9204.258	126270.188	139.785	99.1	0.973	30887	18302	1.06
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.430	7778.292	190569.000	243.620	103.7	1.043	22300	49239	1.13
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.415	6310.149	311894.594	467.221	99.4	1.052	37974	12514	1.16
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.442	9377.617	449.997	0.506	107.6	1.021	5	3559	1.19
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.434	10742.247	768.857	0.754	80.2	0.761	33	30	1.16

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.999109
Calibration curve: 0.000233612 * x^2 + 0.948755 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

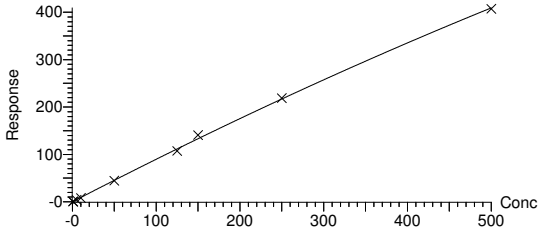
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.409	90960.586	34572.805	4.147	82.9	0.760	362	225	0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.399	91953.430	73250.313	8.699	87.0	0.797	764	294631	1.02
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.405	84239.859	374813.000	49.015	98.0	0.890	5586	643	0.94
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.398	74685.898	801285.875	120.050	96.0	0.858	9545	1798	1.05
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.403	69870.023	983604.688	158.889	105.9	0.939	12436	14428	1.03
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.399	67410.773	1473721.125	251.986	100.8	0.874	14020	40878	1.01
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.394	59526.586	2424789.250	497.361	99.5	0.815	23041	4179	1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.398	88785.359	4136.330	0.508	101.6	0.932	52	19371	1.09
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.392	88560.258	6461.678	0.795	79.5	0.730	108	5	0.97

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998889
Calibration curve: -0.000197922 * x^2 + 0.917453 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

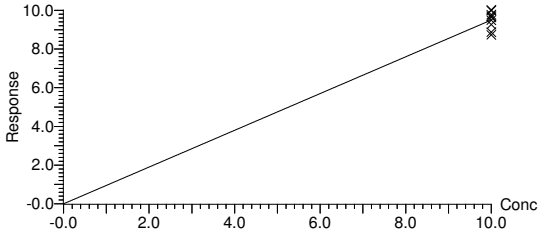
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.405	93068.188	90960.586	10.290	102.9	0.977	23378		1.02
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.399	95398.117	91953.430	10.148	101.5	0.964	11553		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.402	84037.695	84239.859	10.554	105.5	1.002	1739164		1.03
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.398	78699.977	74685.898	9.991	99.9	0.949	1341		1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.403	75403.938	69870.023	9.756	97.6	0.927	1392474		1.02
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.396	69458.313	67410.773	10.218	102.2	0.971	1304093		1.11
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.391	59631.082	59526.586	10.510	105.1	0.998	968		1.08
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.398	100127.297	88785.359	9.336	93.4	0.887	7137		1.05
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.392	101367.383	88560.258	9.198	92.0	0.874	2505		1.00

Compound name: M4PFHpA
Response Factor: 0.949823
RRF SD: 0.0458482, % Relative SD: 4.82703
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

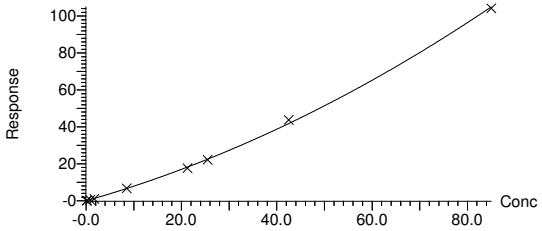
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.328	11194.032	559.837	0.679	79.8	0.588	71		0.58
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.319	12271.508	1270.581	1.397	82.2	0.609	304		0.60
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.325	10437.030	6982.396	8.540	100.5	0.787	390	877	0.58
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.321	9613.386	16964.984	20.643	97.1	0.830	1444	1017	0.59
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.322	9204.258	20468.014	25.216	98.9	0.872	9263	521	0.61
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.318	7778.292	34080.543	44.106	103.8	1.031	9050	1561	0.60
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.313	6310.149	65752.359	84.562	99.5	1.226	7218	2159	0.60
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.325	9377.617	52.373	0.076	89.6	0.657	80		0.53
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.315	10742.247	110.327	0.140	82.3	0.604	64		0.63

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.999175
Calibration curve: 0.00590398 * x^2 + 0.732997 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

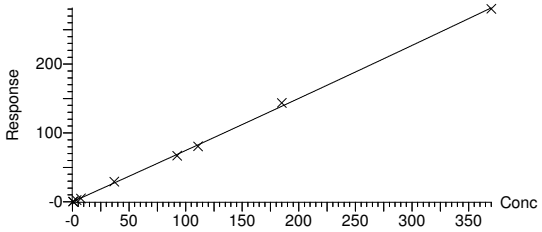
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.565	11194.032	2784.762	3.364	90.9	0.672	532	181	0.98
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.556	12271.508	5887.751	6.487	87.7	0.648	2217	1560	1.00
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.562	10437.030	30587.240	39.517	106.8	0.792	2584	7938	0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.554	9613.386	64287.277	89.807	97.1	0.723	8299	8158	1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.559	9204.258	74057.070	107.897	97.2	0.725	50570	3897	1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.556	7778.292	111633.836	191.185	103.3	0.776	44077	10485	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.547	6310.149	176928.781	368.313	99.5	0.758	29050	11721	1.02
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.554	9377.617	324.156	0.468	126.4	0.934	836		1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.552	10742.247	527.956	0.665	89.8	0.664	393		0.95

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.999089
Calibration curve: 5.97876e-005 * x^2 + 0.739255 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

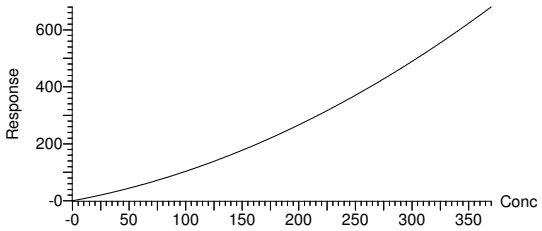
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		11194.032	3344.599	4.043					
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		12271.508	7158.332	7.884					
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		10437.030	37569.636	48.057					
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		9613.386	81252.261	110.450					
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		9204.258	94525.084	133.113					
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		7778.292	145714.379	235.291					
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		6310.149	242681.140	452.875					
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		9377.617	376.529	0.544					
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		10742.247	638.283	0.805					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 0.736126 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

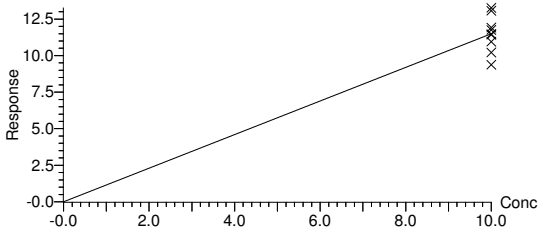
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.565	9391.129	11194.032	10.371	103.7	1.192	243467		0.93
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.556	10693.415	12271.508	9.985	99.8	1.148	7		0.96
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.558	7867.362	10437.030	11.543	115.4	1.327	985		1.08
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.554	8781.861	9613.386	9.525	95.2	1.095	204538		1.07
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.556	7044.307	9204.258	11.369	113.7	1.307	165		1.27
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.552	6617.794	7778.292	10.227	102.3	1.175	316		1.11
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.551	5519.950	6310.149	9.946	99.5	1.143	95		0.92
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.558	10009.636	9377.617	8.151	81.5	0.937	306		0.86
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.548	10521.385	10742.247	8.883	88.8	1.021	166		0.98

Compound name: M3PFHxS
Response Factor: 1.14932
RRF SD: 0.124153, % Relative SD: 10.8024
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

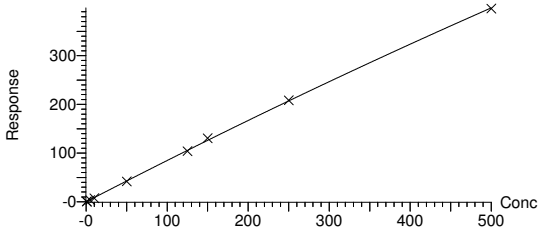
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		92378.477							
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		93629.484							
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		83420.031							
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		75622.828							
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		72165.484							
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		67823.211						1	
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		60240.891							
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		85646.797							
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		86720.586							

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999473
Calibration curve: -0.000128513 * x^2 + 0.860482 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

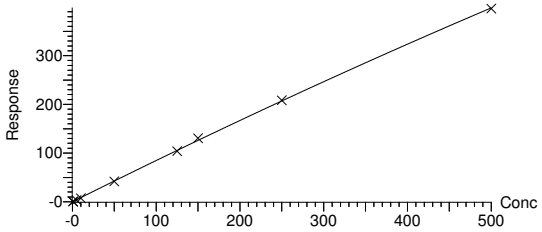
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.354	92378.477	33626.664	4.233	84.7	0.728	367	3	0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.347	93629.484	71443.797	8.879	88.8	0.763	652	230	0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.349	83420.031	350745.688	49.225	98.4	0.841	4181	900321	1.01
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.341	75622.828	784709.063	122.845	98.3	0.830	10105	3202	1.05
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.351	72165.484	941813.500	155.269	103.5	0.870	12020	3339	1.02
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.342	67823.211	1412851.375	251.540	100.6	0.833	11766	2234	1.07
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.341	60240.891	2389997.000	498.126	99.6	0.793	21642	8721	1.02
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.345	85646.797	4059.672	0.551	110.2	0.948	65	1645	1.24
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.334	86720.586	6073.813	0.814	81.4	0.700	78	20462	1.32

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999473
Calibration curve: -0.000128513 * x^2 + 0.860482 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

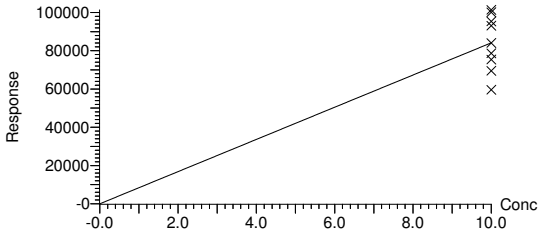
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.354		93068.188	11.062	110.6	9306.819	661		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.347		95398.117	11.339	113.4	9539.812	1112		0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.349		84037.695	9.989	99.9	8403.770	94245		1.04
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.341		78699.977	9.354	93.5	7869.998	966		1.05
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.351		75403.938	8.963	89.6	7540.394	2509		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.347		69458.313	8.256	82.6	6945.831	4163		0.95
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.337		59631.082	7.088	70.9	5963.108	6090		1.14
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.345		100127.297	11.901	119.0	10012.730	2353753		1.02
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.338		101367.383	12.049	120.5	10136.738	2376850		0.97

Compound name: M2PFOA
Response Factor: 8413.24
RRF SD: 1449.57, % Relative SD: 17.2296
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

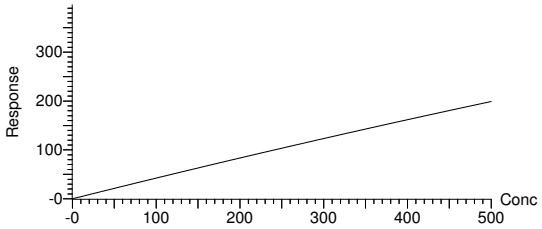
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		92378.477	33626.664	4.233					
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		93629.484	71443.797	8.879					
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		83420.031	350745.688	49.225					
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		75622.828	784709.063	122.845					
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		72165.484	941813.500	155.269					
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		67823.211	1412851.375	251.540					
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		60240.891	2389997.000	498.126					
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		85646.797	4059.672	0.551					
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		86720.586	6073.813	0.814					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.430241 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

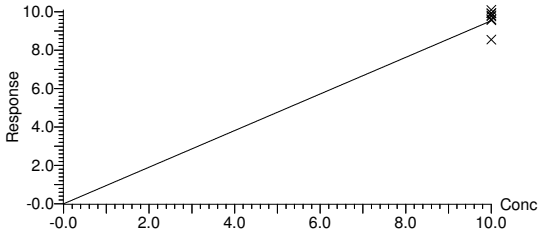
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.354	93068.188	92378.477	10.409	104.1	0.993	1937489		0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.347	95398.117	93629.484	10.292	102.9	0.981	5075		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.349	84037.695	83420.031	10.410	104.1	0.993	1708300		0.98
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.341	78699.977	75622.828	10.077	100.8	0.961	1493437		1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.351	75403.938	72165.484	10.036	100.4	0.957	1443650		1.00
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.343	69458.313	67823.211	10.240	102.4	0.976	1308445		1.09
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.337	59631.082	60240.891	10.594	105.9	1.010	1615		1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.345	100127.297	85646.797	8.970	89.7	0.855	1757151		0.96
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.338	101367.383	86720.586	8.972	89.7	0.856	1742526		0.97

Compound name: M8PFOA
Response Factor: 0.953581
RRF SD: 0.0579709, % Relative SD: 6.07929
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

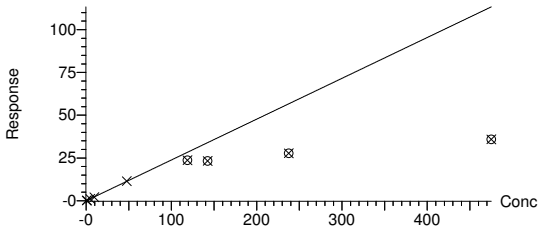
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.312	3563.207	407.566	4.795	100.9	0.241	1648	714	1.00
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.305	4355.449	908.136	8.740	92.0	0.219	19043	28471	0.93
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.308	4256.029	4878.899	48.052	101.2	0.241	2258	4558	0.99
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.300	4596.429	10866.652	99.099	83.5	0.199	2758	8612	0.99
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.310	5548.471	12931.055	97.691	68.6	0.164	2700	4395	0.96
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.301	7645.305	21260.941	116.569	49.1	0.117	13709	7994	0.99
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.295	10648.935	38207.949	150.398	31.7	0.076	11971	8854	1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.316	4064.310	42.286	0.436	91.8	0.219	31	15	0.71
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.297	3636.959	99.960	1.152	121.3	0.289	6	72	1.00

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.997965
Calibration curve: 0.238564 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

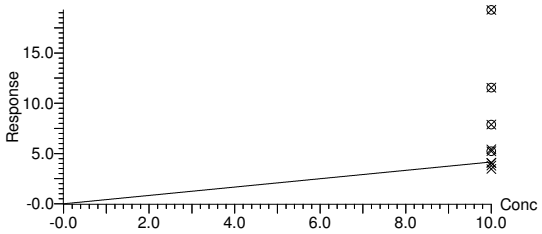
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.308	9391.129	3563.207	9.123	91.2	0.379	292		1.08
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.305	10693.415	4355.449	9.794	97.9	0.407	93724		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.308	7867.362	4256.029	13.008	130.1	0.541	90984		0.92
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.304	8781.861	4596.429	12.585	125.9	0.523	97200		0.79
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.310	7044.307	5548.471	18.939	189.4	0.788	328		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.301	6617.794	7645.305	27.779	277.8	1.155	160134		1.00
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.295	5519.950	10648.935	46.387	463.9	1.929	221970		1.05
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.304	10009.636	4064.310	9.763	97.6	0.406	85639		0.96
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.297	10521.385	3636.959	8.312	83.1	0.346	40		0.99

Compound name: M2-6:2FTS
Response Factor: 0.415882
RRF SD: 0.0742913, % Relative SD: 17.8635
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

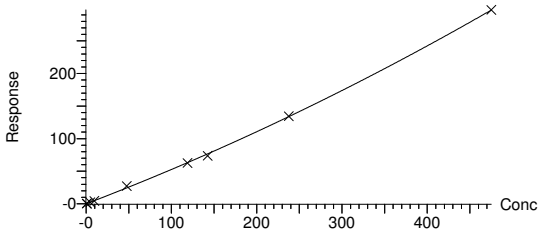
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.435	11718.485	2526.212	4.300	90.5	0.454	54248	45543	1.27
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.437	11646.159	5058.142	8.644	91.0	0.457	108221	108101	0.93
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.439	10818.837	29451.385	52.941	111.5	0.573	11441	574035	0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.431	9250.913	58092.289	118.157	99.5	0.529	5013	16385	1.02
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.441	9727.753	71784.641	137.523	96.5	0.518	1456090	953	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.432	7525.810	101142.914	238.568	100.4	0.566	7659	12117	1.04
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.431	5671.231	168801.906	475.440	100.1	0.627	2099	7713	1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.431	12059.226	292.711	0.485	102.1	0.511	6924	33	1.00
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.420	9845.821	448.124	0.910	95.7	0.479	10216	11	1.05

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.999237
Calibration curve: 0.000264716 * x^2 + 0.500186 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

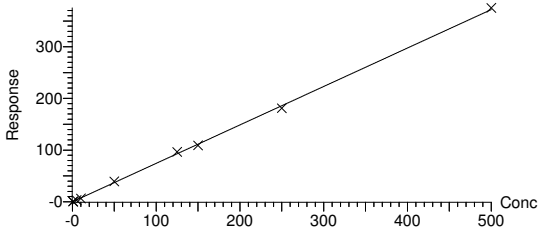
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.0...	95964.969	31433.725	4.402	88.0	0.655	469	124798	0.95
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.0...	93872.930	62461.043	8.943	89.4	0.665	862	267286	0.92
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.0...	83156.852	327237.781	52.888	105.8	0.787	1813	5879	1.02
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.0...	71523.797	690355.500	129.723	103.8	0.772	7776	2698175	0.92
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...	71577.570	780272.625	146.509	97.7	0.727	13031	5605	0.90
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.0...	66425.828	1202890.625	243.380	97.4	0.724	16961	5077908	1.00
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.0...	51921.512	1948726.750	504.428	100.9	0.751	18476	34462	0.99
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.0...	84464.977	2719.855	0.433	86.6	0.644	38	17919	1.07
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.0...	86878.703	5135.311	0.794	79.4	0.591	60	31	1.00

Compound name: PFNA
Coefficient of Determination: R^2 = 0.999182
Calibration curve: 0.744055 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

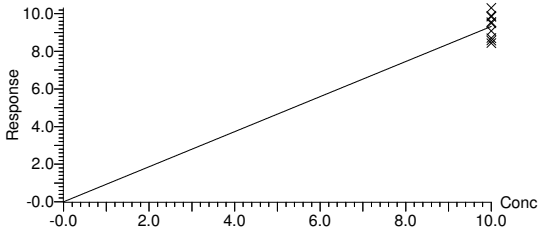
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.0...	93068.188	95964.969	11.060	110.6	1.031	1602935		0.90
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.0...	95398.117	93872.930	10.555	105.6	0.984	1560678		0.92
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.0...	84037.695	83156.852	10.614	106.1	0.990	5320		1.00
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.0...	78699.977	71523.797	9.748	97.5	0.909	2887		0.91
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.0...	75403.938	71577.570	10.182	101.8	0.949	1201		1.00
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.0...	69458.313	66425.828	10.258	102.6	0.956	1094826		0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.0...	59631.082	51921.512	9.340	93.4	0.871	4482		0.96
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.0...	100127.297	84464.977	9.049	90.5	0.844	1391714		0.92
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.0...	101367.383	86878.703	9.193	91.9	0.857	1468898		0.96

Compound name: M9PFNA
Response Factor: 0.932269
RRF SD: 0.0656282, % Relative SD: 7.03961
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

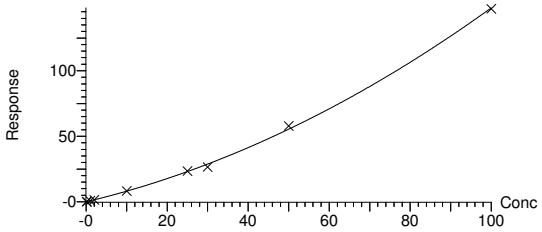
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.958	11718.485	783.779	0.900	90.0	0.669	105	2970	0.41
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.887	11646.159	1640.697	1.877	93.8	0.704	519	38	2.43
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.958	10818.837	8975.997	10.210	102.1	0.830	4011	195	0.40
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.952	9250.913	21667.051	25.323	101.3	0.937	2924	2166	0.39
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.959	9727.753	25841.545	28.096	93.7	0.885	3885	2088	0.41
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.953	7525.810	43614.066	51.700	103.4	1.159	7922	2028	0.39
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.952	5671.231	83526.133	99.682	99.7	1.473	8227	2878	0.40
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.952	12059.226	99.985	0.112	112.4	0.829	1082	4	0.38
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.942	9845.821	154.865	0.213	106.5	0.786	7	4	0.36

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.999045
Calibration curve: 0.00743162 * x^2 + 0.736714 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

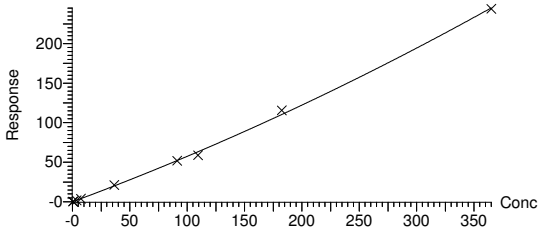
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.1...	11718.485	2167.418	3.428	93.9	0.507	621	28154	0.93
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.1...	11646.159	4483.462	7.118	97.5	0.527	2820	339	0.92
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.1...	10818.837	22900.135	38.328	105.0	0.580	20112	1605	0.90
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.1...	9250.913	48143.723	91.054	99.8	0.570	12901	16620	0.96
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...	9727.753	57190.742	102.137	93.3	0.537	16869	14984	0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.1...	7525.810	86943.906	190.076	104.2	0.633	30872	13362	0.92
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.1...	5671.231	138349.719	363.427	99.6	0.668	27041	15729	0.93
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.1...	12059.226	207.903	0.320	87.7	0.472	3885	60	0.93
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.1...	9845.821	402.574	0.759	104.0	0.560	29	30	0.90

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.998790
Calibration curve: 0.000366026 * x^2 + 0.538225 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

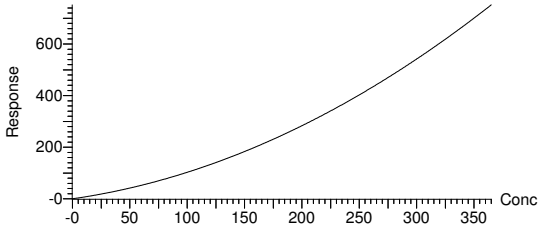
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		11718.485	2951.197	4.328					
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		11646.159	6124.159	8.995					
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		10818.837	31876.132	48.538					
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		9250.913	69810.774	116.377					
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		9727.753	83032.287	130.233					
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		7525.810	130557.972	241.776					
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		5671.231	221875.852	463.109					
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		12059.226	307.888	0.433					
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		9845.821	557.439	0.972					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 0.63747 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

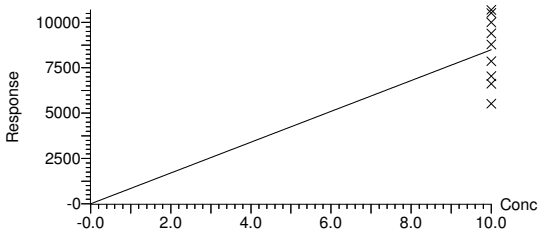
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.1...		9391.129	11.056	110.6	939.113	1378		0.91
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.1...		10693.415	12.589	125.9	1069.342	615		0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.1...		7867.362	9.262	92.6	786.736	128486		0.93
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.1...		8781.861	10.339	103.4	878.186	621		0.96
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...		7044.307	8.293	82.9	704.431	114994		0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.1...		6617.794	7.791	77.9	661.779	108137		1.02
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.1...		5519.950	6.499	65.0	551.995	88952		0.94
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.1...		10009.636	11.784	117.8	1000.964	170952		0.91
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.1...		10521.385	12.387	123.9	1052.139	918		0.95

Compound name: M4PFOS
Response Factor: 849.409
RRF SD: 183.684, % Relative SD: 21.625
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

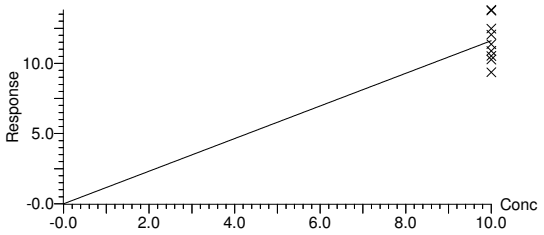
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.1...	9391.129	11718.485	10.745	107.5	1.248	204497		0.88
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.1...	10693.415	11646.159	9.378	93.8	1.089	719		0.94
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.1...	7867.362	10818.837	11.842	118.4	1.375	397		1.02
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.1...	8781.861	9250.913	9.071	90.7	1.053	150755		0.94
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...	7044.307	9727.753	11.891	118.9	1.381	176		0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.1...	6617.794	7525.810	9.793	97.9	1.137	121071		1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.1...	5519.950	5671.231	8.847	88.5	1.027	312		1.05
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.1...	10009.636	12059.226	10.374	103.7	1.205	722		0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.1...	10521.385	9845.821	8.058	80.6	0.936	160598		0.86

Compound name: M8PFOS
Response Factor: 1.16129
RRF SD: 0.153934, % Relative SD: 13.2555
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

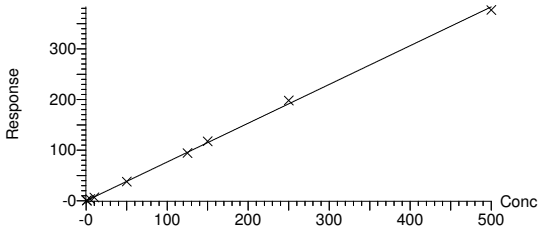
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	88966.984	28374.779	4.164	83.3	0.638	983	152	0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	88326.609	58492.285	8.646	86.5	0.662	2628	238367	0.87
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	79103.945	301249.438	49.719	99.4	0.762	4184	1023	0.94
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	65619.195	617393.063	122.835	98.3	0.753	7264	1641	0.93
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	61123.406	719876.125	153.759	102.5	0.785	5129	4683	0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	53262.887	1056450.125	258.950	103.6	0.793	11616	4157687	1.05
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...	45589.348	1718521.000	492.133	98.4	0.754	15026	3396	0.97
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	85360.250	3119.056	0.477	95.4	0.731	75	15236	0.97
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	86921.727	5443.025	0.818	81.8	0.626	74	22569	0.94

Compound name: PFDA
Coefficient of Determination: R^2 = 0.999127
Calibration curve: 0.765965 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

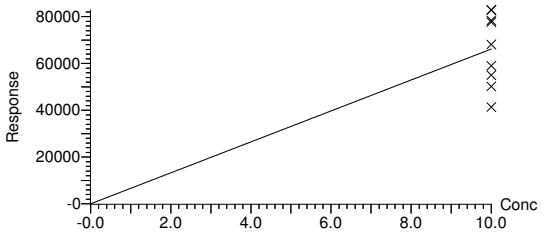
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...		77657.359	11.740	117.4	7765.736	17676		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...		78374.711	11.848	118.5	7837.471	15988		1.01
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...		68134.172	10.300	103.0	6813.417	15667		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...		59026.023	8.923	89.2	5902.602	14305		0.93
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...		54996.473	8.314	83.1	5499.647	13758		0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...		50150.867	7.582	75.8	5015.087	10378		1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...		41307.793	6.245	62.4	4130.779	9403		0.97
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...		82886.930	12.530	125.3	8288.693	13655		0.98
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...		82804.273	12.518	125.2	8280.427	11882		0.96

Compound name: M2PFDA
Response Factor: 6614.87
RRF SD: 1537.67, % Relative SD: 23.2457
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

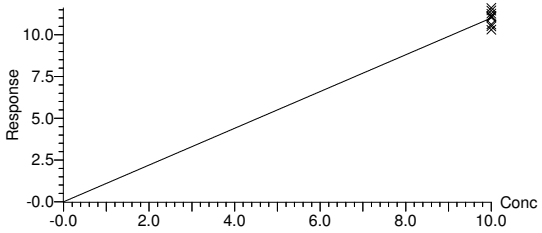
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	77657.359	88966.984	10.413	104.1	1.146	1653693		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	78374.711	88326.609	10.243	102.4	1.127	2058		1.01
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	68134.172	79103.945	10.552	105.5	1.161	8096		0.93
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	59026.023	65619.195	10.104	101.0	1.112	7804		0.90
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	54996.473	61123.406	10.102	101.0	1.111	1105754		0.92
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	50150.867	53262.887	9.653	96.5	1.062	980		1.02
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...	41307.793	45589.348	10.031	100.3	1.104	826126		0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	82886.930	85360.250	9.360	93.6	1.030	6398		0.97
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	82804.273	86921.727	9.541	95.4	1.050	4204		0.97

Compound name: M6PFDA
Response Factor: 1.10022
RRF SD: 0.0443023, % Relative SD: 4.02667
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

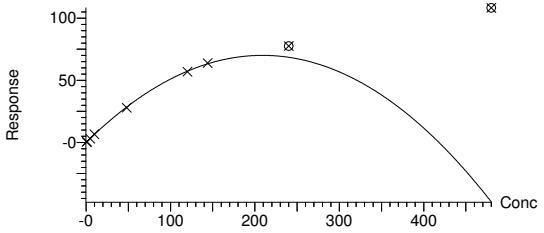
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	2127.701	650.963	4.613	96.1	0.637	14177	510	1.03
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.711	2138.415	1436.721	10.272	107.0	0.700	1196	538	0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	2351.443	6599.380	47.176	98.3	0.585	145218	1549	1.03
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	2492.435	14184.246	118.395	98.7	0.474	7881	7934	0.99
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.711	2549.115	16264.744	146.456	101.7	0.443	11566	218287	1.00
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	3225.862	25025.311			0.323	8458	3760	0.96
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.6...	3821.055	41377.727			0.226	5174	10615	1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	1976.099	69.515	0.525	109.4	0.733	139	10	0.81
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	2019.154	139.744	1.035	107.8	0.721	2970	1681	1.13

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999538
Calibration curve: -0.001604 * x^2 + 0.670578 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

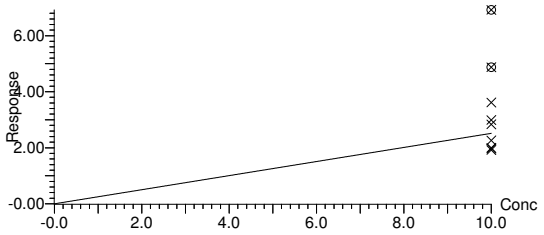
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	9391.129	2127.701	9.009	90.1	0.227	39119		0.89
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	10693.415	2138.415	7.952	79.5	0.200	38513		0.96
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	7867.362	2351.443	11.885	118.8	0.299	42023		1.03
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	8781.861	2492.435	11.285	112.9	0.284	332		1.02
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	7044.307	2549.115	14.389	143.9	0.362	839		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	6617.794	3225.862	19.382	193.8	0.487	529		0.95
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.6...	5519.950	3821.055	27.525	275.2	0.692	328		1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	10009.636	1976.099	7.850	78.5	0.197	35453		1.02
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	10521.385	2019.154	7.631	76.3	0.192	424		1.02

Compound name: M2-8:2FTS
Response Factor: 0.251491
RRF SD: 0.0648374, % Relative SD: 25.7812
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

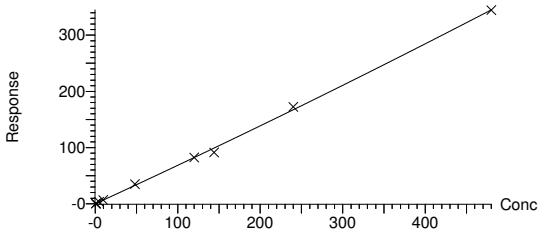
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	11718.485	4233.052	5.343	111.3	0.753	99222	53746	0.92
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	11646.159	7887.980	10.013	104.3	0.706	182853	119099	0.86
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	10818.837	38100.289	51.774	107.9	0.734	840530	2476	0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	9250.913	76053.859	119.787	99.8	0.685	1652081	2086	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	9727.753	88918.977	132.956	92.3	0.635	1242	1405348	0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	7525.810	129895.969	247.351	103.1	0.719	773	9635	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...	5671.231	195337.875	479.273	99.8	0.718	2319	5039	0.99
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	12059.226	220.333	0.270	56.3	0.381	6297	17	0.98
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	9845.821	698.416	1.050	109.4	0.739	89	3	1.05

Compound name: PFNS
Coefficient of Determination: R^2 = 0.998519
Calibration curve: 8.99799e-005 * x^2 + 0.67554 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

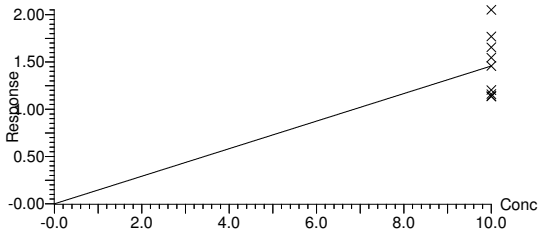
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.085	77657.359	9001.986	7.953	79.5	0.116	430		0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.087	78374.711	9429.717	8.255	82.5	0.120	180		0.93
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.084	68134.172	9927.184	9.996	100.0	0.146	625		1.01
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.079	59026.023	9126.865	10.609	106.1	0.155	171592		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.087	54996.473	9105.276	11.359	113.6	0.166	974		0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.082	50150.867	8871.647	12.137	121.4	0.177	174469		0.91
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.079	41307.793	8472.627	14.073	140.7	0.205	160634		0.95
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.079	82886.930	9412.311	7.791	77.9	0.114	431		0.98
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.082	82804.273	9446.208	7.827	78.3	0.114	186025		0.89

Compound name: d3-NMeFOSAA
Response Factor: 0.145752
RRF SD: 0.0326752, % Relative SD: 22.4184
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

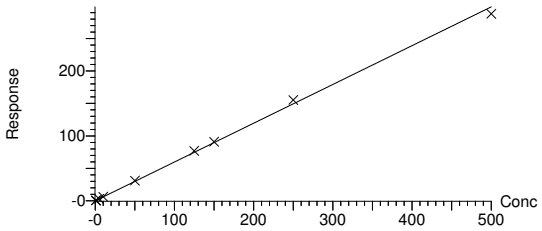
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.090	9001.986	2728.754	5.072	101.4	0.606	381	194	0.99
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.087	9429.717	5986.672	10.623	106.2	0.635	1017	748	1.06
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.090	9927.184	30740.287	51.815	103.6	0.619	2831	2718	0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.085	9126.865	70059.523	128.446	102.8	0.614	6843	3412	0.92
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.092	9105.276	82880.930	152.312	101.5	0.607	9270	4240	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.087	8871.647	137711.047	259.740	103.9	0.621	8677	4416	0.92
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.079	8472.627	244027.031	481.941	96.4	0.576	9247	4715	1.05
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.090	9412.311	298.161	0.530	106.0	0.634	62	10	0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.087	9446.208	576.220	1.021	102.1	0.610	75	99	1.04

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.998810
Calibration curve: 0.597621 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

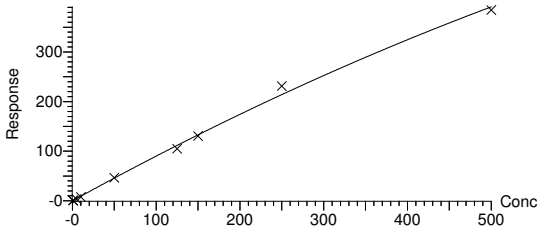
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.255	83099.617	29479.420	3.814	76.3	0.709	614	92844	0.95
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.252	79021.750	62609.438	8.532	85.3	0.792	1490	801	1.03
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.255	64158.406	299291.375	50.928	101.9	0.933	6978	8868	0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.245	56477.063	593038.000	117.168	93.7	0.840	8003	4019	1.08
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.258	52988.070	693444.688	147.520	98.3	0.872	12339	1078	0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.247	42395.594	979807.625	271.907	108.8	0.924	22013	855	1.13
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.244	40741.063	1567241.750	490.197	98.0	0.769	12920	1409	1.06
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.250	78990.391	2866.169	0.390	77.9	0.726	56	16246	0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.252	80848.156	5800.123	0.771	77.1	0.717	78	19925	0.99

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.997157
Calibration curve: -0.000298734 * x^2 + 0.931191 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

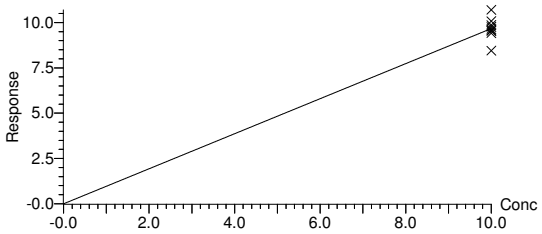
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.256	77657.359	83099.617	11.068	110.7	1.070	1273		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.253	78374.711	79021.750	10.429	104.3	1.008	1541792		1.01
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.255	68134.172	64158.406	9.740	97.4	0.942	1197830		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.245	59026.023	56477.063	9.897	99.0	0.957	1073319		1.02
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.253	54996.473	52988.070	9.966	99.7	0.963	1501		1.07
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.248	50150.867	42395.594	8.744	87.4	0.845	781839		1.08
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.245	41307.793	40741.063	10.201	102.0	0.986	6905		1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.250	82886.930	78990.391	9.857	98.6	0.953	1543083		0.95
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.248	82804.273	80848.156	10.099	101.0	0.976	1582007		1.04

Compound name: M7-PFUDA
Response Factor: 0.96681
RRF SD: 0.0597265, % Relative SD: 6.17769
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

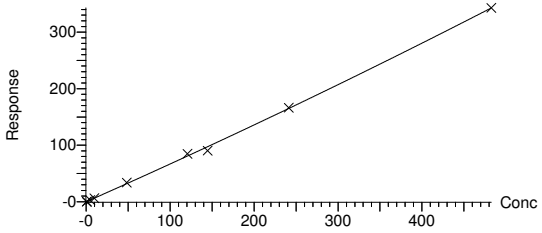
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.267	11718.485	3251.090	4.216	87.4	0.575	75644	50573	0.87
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.264	11646.159	7533.778	9.822	101.8	0.670	179948	101257	0.90
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.261	10818.837	36514.367	50.898	105.5	0.699	841804	10505	0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.256	9250.913	78685.211	126.685	105.0	0.705	1807037	918	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.264	9727.753	87935.875	134.469	92.9	0.625	1973297	8626	1.03
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.259	7525.810	125274.078	243.305	100.9	0.690	7166	1699592	0.99
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.256	5671.231	194472.438	482.736	100.0	0.711	1798	6305	0.99
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.272	12059.226	243.935	0.308	63.8	0.419	6648	7779	0.75
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.259	9845.821	544.235	0.841	87.1	0.573	13163	3	1.09

Compound name: PFDS
Coefficient of Determination: R^2 = 0.998726
Calibration curve: 0.000109385 * x^2 + 0.657544 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

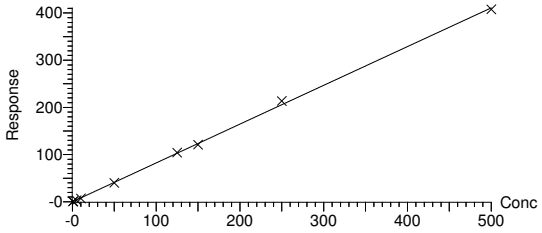
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.124	34159.688	10579.771	3.759	75.2	0.619	234727		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.121	32409.621	23803.600	8.913	89.1	0.734	535632		1.07
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.123	30321.623	122439.266	49.017	98.0	0.808	3630	14139	1.00
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.118	26596.314	276516.375	126.264	101.0	0.832	4268	30995	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.126	27181.514	328541.656	146.808	97.9	0.806	4819	25205	1.05
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.121	23742.172	506613.313	259.349	103.7	0.854	4768	368	1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.118	21359.803	870578.125	496.089	99.2	0.815	6846	99852	1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.118	31314.320	918.424	0.356	71.2	0.587	37		1.23
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.121	29538.127	2302.018	0.946	94.6	0.779	55789		1.09

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999112
Calibration curve: -4.96794e-006 * x^2 + 0.824046 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

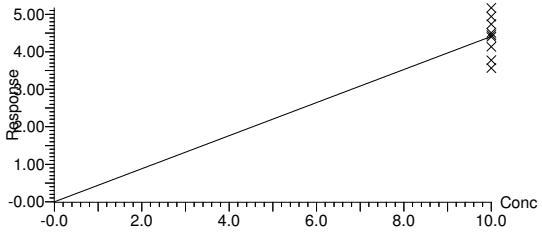
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.125	77657.359	34159.688	9.976	99.8	0.440	649746		0.90
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.122	78374.711	32409.621	9.379	93.8	0.414	3106		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.124	68134.172	30321.623	10.093	100.9	0.445	570515		0.90
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.114	59026.023	26596.314	10.219	102.2	0.451	498617		1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.127	54996.473	27181.514	11.209	112.1	0.494	814		0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.122	50150.867	23742.172	10.737	107.4	0.473	1051		0.96
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.119	41307.793	21359.803	11.728	117.3	0.517	393893		0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.119	82886.930	31314.320	8.568	85.7	0.378	2169		0.96
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.116	82804.273	29538.127	8.090	80.9	0.357	560878		1.02

Compound name: M8FOSA
Response Factor: 0.44092
RRF SD: 0.0520058, % Relative SD: 11.7948
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

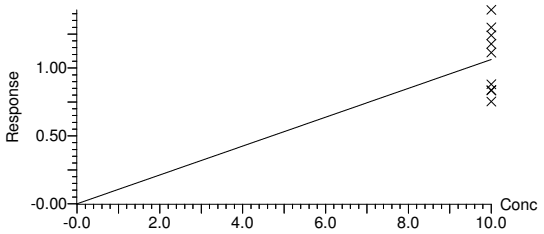
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.374	77657.359	6482.268	7.854	78.5	0.083	2016		0.84
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.371	78374.711	6561.655	7.877	78.8	0.084	153389		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.368	68134.172	8024.498	11.081	110.8	0.118	234		1.09
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.363	59026.023	6574.735	10.480	104.8	0.111	852		1.08
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.376	54996.473	7148.122	12.229	122.3	0.130	160684		0.89
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.366	50150.867	6221.618	11.672	116.7	0.124	201		1.11
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.363	41307.793	5899.686	13.438	134.4	0.143	129545		0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.363	82886.930	6238.703	7.082	70.8	0.075	284		1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.371	82804.273	7293.184	8.287	82.9	0.088	178992		0.91

Compound name: d5-NEtFOSAA
Response Factor: 0.106284
RRF SD: 0.0242209, % Relative SD: 22.7888
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

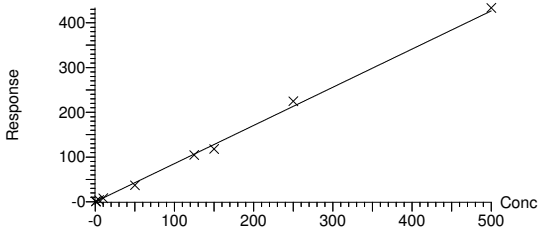
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.379	6482.268	2601.915	4.705	94.1	0.803	353	317	1.01
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.376	6561.655	5451.490	9.739	97.4	0.831	653	40654	1.03
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.379	8024.498	29531.371	43.142	86.3	0.736	3186	143	0.99
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.374	6574.735	68870.625	122.796	98.2	0.838	5270	3013	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.382	7148.122	84147.008	137.999	92.0	0.785	8278	3339	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.376	6221.618	139937.203	263.670	105.5	0.900	10536	3915	1.02
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.374	5899.686	255610.016	507.901	101.6	0.867	17562	4997	0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.379	6238.703	320.936	0.603	120.6	1.029	40	6	0.86
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.376	7293.184	587.363	0.944	94.4	0.805	64	48	0.95

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.997328
Calibration curve: 0.853041 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

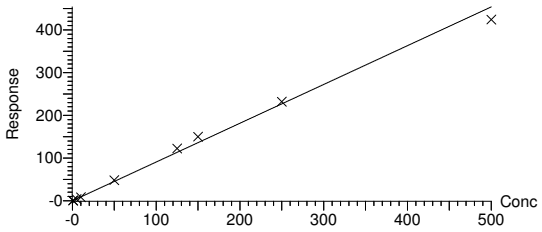
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.722	81236.000	32628.197	4.424	88.5	0.803	616	142	1.12
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.723	81836.984	70172.727	9.445	94.4	0.857	1746	446	0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.722	71010.172	342918.719	53.190	106.4	0.966	7607	620115	1.07
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.718	58892.871	721807.313	134.996	108.0	0.981	10137	769	1.01
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.723	57896.809	869214.063	165.361	110.2	1.001	10995	539	1.05
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.719	55620.824	1291296.375	255.712	102.3	0.929	14424	9133	1.14
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.713	47330.496	2006536.125	466.947	93.4	0.848	16882	4080	1.12
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.717	77519.445	3773.728	0.536	107.2	0.974	64	5022	1.09
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.723	81292.922	6560.292	0.889	88.9	0.807	154	4	1.02

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.995334
Calibration curve: 0.9079 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

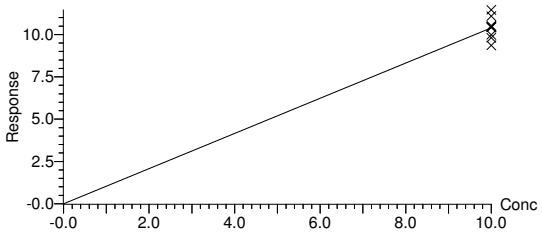
Client	:	Soils Engineering Services, Inc.	Lab Number	:	L2009793
Project Name	:	GROSSINGERS	Project Number	:	9313
Instrument ID	:	LCMS01	Ical Ref	:	ICAL16567
Calibration dates	:	02/27/20 14:02 02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.726	77657.359	81236.000	10.064	100.6	1.046	2241		0.95
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.723	78374.711	81836.984	10.046	100.5	1.044	674		0.94
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.722	68134.172	71010.172	10.027	100.3	1.042	1910		1.06
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.718	59026.023	58892.871	9.599	96.0	0.998	1444		0.97
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.723	54996.473	57896.809	10.128	101.3	1.053	1751		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.719	50150.867	55620.824	10.670	106.7	1.109	8340		1.10
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.713	41307.793	47330.496	11.023	110.2	1.146	986956		1.12
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.717	82886.930	77519.445	8.998	90.0	0.935	1780140		0.99
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.723	82804.273	81292.922	9.445	94.5	0.982	1865449		0.94

Compound name: MPFDOA
Response Factor: 1.03942
RRF SD: 0.0635766, % Relative SD: 6.11652
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

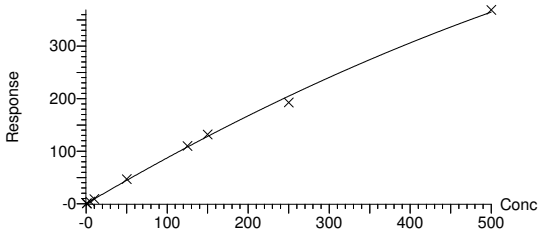
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	12.1...	81236.000	33142.918	4.496	89.9	0.816	772	536	1.00
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	12.1...	81836.984	74049.422	9.993	99.9	0.905	1251	203	1.13
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	12.1...	71010.172	333977.594	52.841	105.7	0.941	6822	1567	0.98
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	12.1...	58892.871	648499.688	127.558	102.0	0.881	9640	8914	1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	12.1...	57896.809	765332.750	154.889	103.3	0.881	8041	1462	0.97
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	12.1...	55620.824	1070954.250	233.305	93.3	0.770	298	3241	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	12.1...	47330.496	1746415.250	507.675	101.5	0.738	17884	7296	1.09
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	12.1...	77519.445	4260.305	0.605	120.9	1.099	64	93	0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	12.1...	81292.922	7109.269	0.962	96.2	0.875	79	126	1.34

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998574
Calibration curve: -0.000358951 * x^2 + 0.90904 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

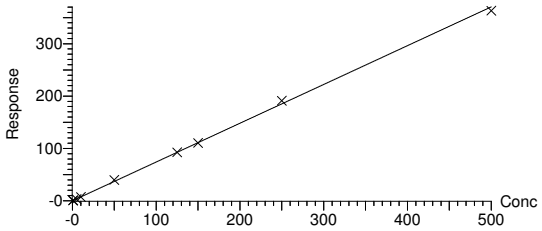
Client	: Soils Engineering Services, Inc.		Lab Number	: L2009793	
Project Name	: GROSSINGERS		Project Number	: 9313	
Instrument ID	: LCMS01		Ical Ref	: ICAL16567	
Calibration dates	: 02/27/20 14:02	02/27/20 17:04			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	12.4...	87989.719	30204.764	4.633	92.7	0.687	928	44	1.11
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	12.4...	89896.859	65072.117	9.770	97.7	0.724	2328	2	1.07
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	12.4...	81471.898	324915.094	53.825	107.7	0.798	8968	1510	1.06
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	12.4...	73635.820	680591.875	124.745	99.8	0.739	16363	3972	1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	12.4...	69408.695	766911.938	149.127	99.4	0.737	23210	7647	1.02
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	12.4...	61592.461	1176527.250	257.810	103.1	0.764	34557	3587	1.05
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	12.4...	52678.184	1913145.000	490.164	98.0	0.726	50430	11549	1.07
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	12.4...	88012.680	3156.608	0.484	96.8	0.717	116	163	1.17
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	12.4...	82218.711	5741.126	0.942	94.2	0.698	277	11	1.06

Compound name: PFTA
Coefficient of Determination: R^2 = 0.999278
Calibration curve: 0.740927 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

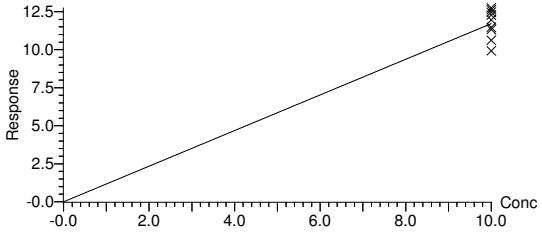
Client	: Soils Engineering Services, Inc.	Lab Number	: L2009793
Project Name	: GROSSINGERS	Project Number	: 9313
Instrument ID	: LCMS01	Ical Ref	: ICAL16567
Calibration dates	: 02/27/20 14:02 02/27/20 17:04		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	12.4...	77657.359	87989.719	9.672	96.7	1.133	10474		1.08
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	12.4...	78374.711	89896.859	9.791	97.9	1.147	5759		1.04
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	12.4...	68134.172	81471.898	10.207	102.1	1.196	8161		1.05
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	12.4...	59026.023	73635.820	10.649	106.5	1.248	2690		1.07
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	12.4...	54996.473	69408.695	10.773	107.7	1.262	7		0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	12.4...	50150.867	61592.461	10.483	104.8	1.228	3698		1.08
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	12.4...	41307.793	52678.184	10.886	108.9	1.275	1670		0.94
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	12.4...	82886.930	88012.680	9.064	90.6	1.062	8729		1.03
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	12.4...	82804.273	82218.711	8.476	84.8	0.993	16052		1.04

Compound name: M2PFTEDA
Response Factor: 1.17151
RRF SD: 0.0965226, % Relative SD: 8.23918
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



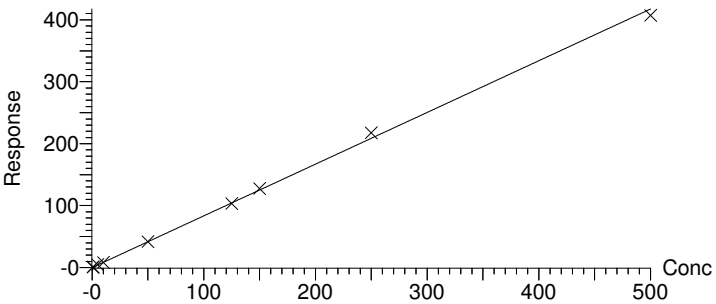
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	2.202	52425.441	2022.401	0.462	92.4	0.772	427		0.85
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	2.235	52304.957	4649.223	1.065	106.5	0.889	1276		0.88
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	2.197	52211.477	24281.963	5.570	111.4	0.930	3246		0.84
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	2.197	51444.141	42612.859	9.920	99.2	0.828	10768		0.86
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	2.197	50772.324	211671.219	49.930	99.9	0.834	135752		0.86
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	2.197	48226.301	497630.500	123.580	98.9	0.825	40939		0.81
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	2.197	49131.746	626725.063	152.770	101.8	0.850	74744		0.79
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	2.197	48443.484	1053096.500	260.349	104.1	0.870	107293		0.74
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	2.202	48827.039	1988962.500	487.854	97.6	0.815	207926		0.63

Compound name: PFBA
Coefficient of Determination: R^2 = 0.999191
Calibration curve: 0.83498 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



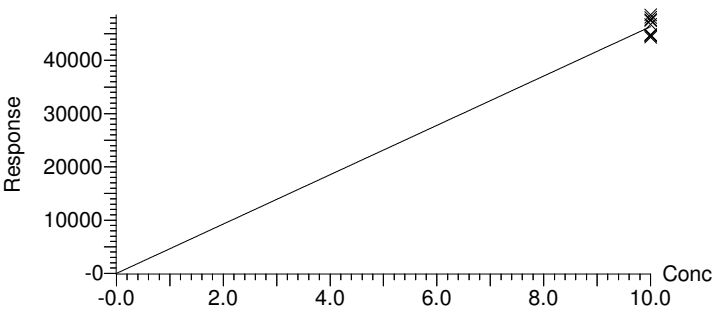
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	2.198		48556.770	10.479	104.8	4855.677	17539		0.88
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	2.232		47672.914	10.289	102.9	4767.291	19716		0.90
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	2.198		48104.082	10.382	103.8	4810.408	25209		0.84
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	2.193		47491.551	10.249	102.5	4749.155	13908		0.88
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	2.193		46737.883	10.087	100.9	4673.788	22328		0.87
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	2.193		44596.996	9.625	96.2	4459.700	42998		0.82
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	2.193		44320.668	9.565	95.7	4432.067	11982		0.80
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	2.193		44854.523	9.680	96.8	4485.452	19567		0.75
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	2.198		44687.082	9.644	96.4	4468.708	11830		0.63

Compound name: M3PFBA
Response Factor: 4633.58
RRF SD: 170.812, % Relative SD: 3.6864
Response type: External Std, Area
Curve type: RF



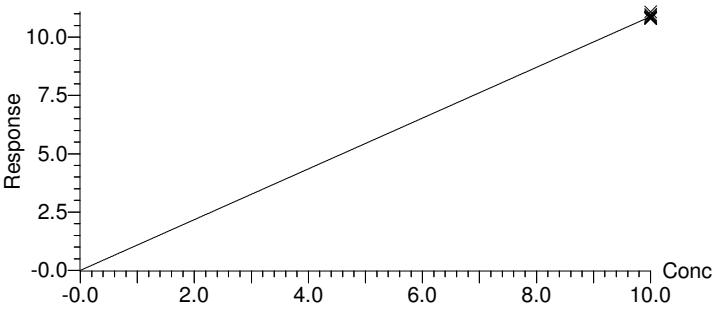
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	2.200	48556.770	52425.441	9.921	99.2	1.080	83214		0.88
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	2.234	47672.914	52304.957	10.082	100.8	1.097	21701		0.89
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	2.195	48104.082	52211.477	9.974	99.7	1.085	42882		0.85
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	2.195	47491.551	51444.141	9.954	99.5	1.083	27822		0.87
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	2.195	46737.883	50772.324	9.982	99.8	1.086	6123		0.86
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	2.195	44596.996	48226.301	9.937	99.4	1.081	27458		0.81
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	2.195	44320.668	49131.746	10.186	101.9	1.109	41537		0.79
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	2.195	44854.523	48443.484	9.924	99.2	1.080	16769		0.75
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	2.200	44687.082	48827.039	10.040	100.4	1.093	4654		0.63

Compound name: MPFBA
Response Factor: 1.08826
RRF SD: 0.00959591, % Relative SD: 0.881764
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



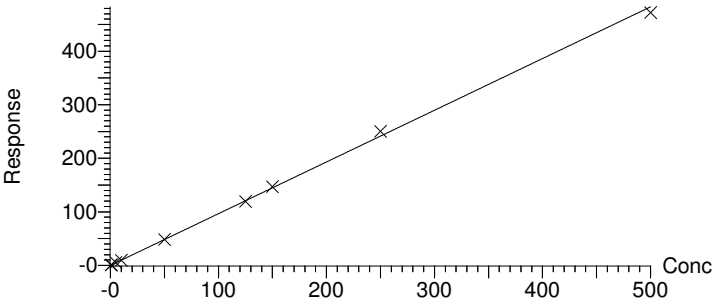
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.103	76105.172	3492.261	0.475	95.0	0.918	637		0.85
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.136	77263.586	7746.430	1.038	103.8	1.003	1599		0.87
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.100	75572.102	40899.605	5.604	112.1	1.082	11510		0.81
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.098	75017.859	70842.992	9.778	97.8	0.944	3098		0.83
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.097	72241.625	350630.375	50.254	100.5	0.971	41095		0.82
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.095	67687.656	808328.813	123.649	98.9	0.955	118382		0.75
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.094	69048.016	1014589.375	152.143	101.4	0.980	86534		0.75
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.094	66395.219	1664293.750	259.541	103.8	1.003	278059		0.71
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.095	64857.230	3063171.750	489.018	97.8	0.945	1134		0.59

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.999314
Calibration curve: 0.965801 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



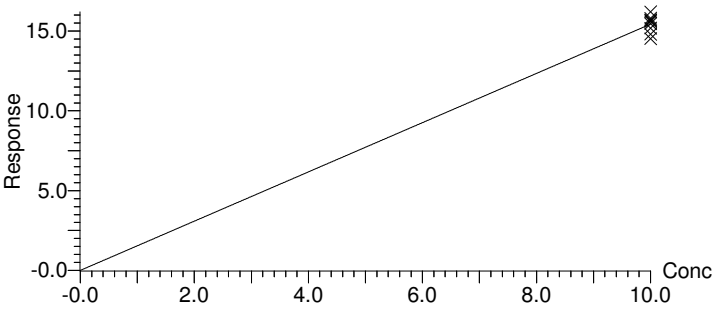
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.098	48556.770	76105.172	10.154	101.5	1.567	15613		0.94
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.131	47672.914	77263.586	10.500	105.0	1.621	18535		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.095	48104.082	75572.102	10.178	101.8	1.571	27622		0.92
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.092	47491.551	75017.859	10.234	102.3	1.580	23941		0.96
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.092	46737.883	72241.625	10.014	100.1	1.546	17064		0.94
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.089	44596.996	67687.656	9.833	98.3	1.518	16990		0.91
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.088	44320.668	69048.016	10.093	100.9	1.558	16815		0.91
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.088	44854.523	66395.219	9.590	95.9	1.480	10808		0.87
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.086	44687.082	64857.230	9.403	94.0	1.451	13250		0.76

Compound name: M5PFPEA
Response Factor: 1.54351
RRF SD: 0.0523876, % Relative SD: 3.39405
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



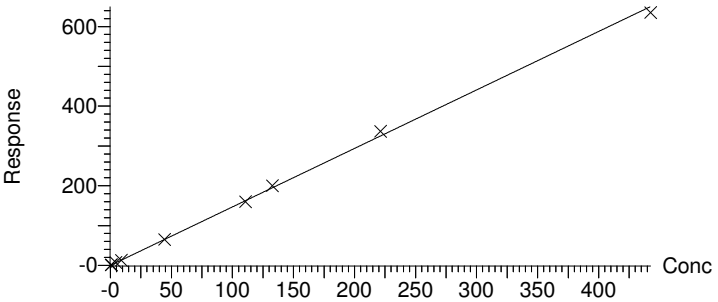
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.750	10365.686	654.601	0.430	97.1	1.427	198	44	0.98
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.775	10629.898	1391.914	0.891	100.7	1.480	209	151	0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.748	10509.768	7652.497	4.956	112.0	1.645	1592	1720	0.96
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.746	10088.863	13152.148	8.873	100.3	1.473	1587	2749	0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.744	9965.561	64765.324	44.235	100.0	1.469	6525	6660	0.98
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.740	9225.293	147915.531	109.133	98.7	1.449	51313	65736	0.95
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.740	9189.132	183932.656	136.241	102.6	1.508	29989	10666	0.95
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.738	8779.142	295488.219	229.092	103.5	1.521	51166	10003	0.93
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.733	8395.982	533039.500	432.126	97.7	1.435	86634	7042	0.89

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999262
Calibration curve: 1.46919 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



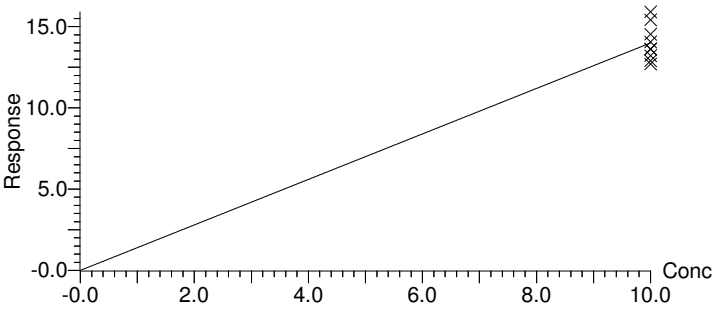
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	5.750	7620.767	10365.686	9.717	97.2	1.360	3560		0.90
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	5.773	7797.159	10629.898	9.740	97.4	1.363	6733		0.93
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	5.748	8269.742	10509.768	9.079	90.8	1.271	123		0.87
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	5.746	7629.751	10088.863	9.447	94.5	1.322	2544		0.90
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	5.746	7090.403	9965.561	10.041	100.4	1.405	1311		0.87
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	5.742	7149.182	9225.293	9.219	92.2	1.290	2600		0.82
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	5.742	6324.697	9189.132	10.380	103.8	1.453	5278		0.81
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	5.742	5696.930	8779.142	11.009	110.1	1.541	3031		0.74
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	5.742	5276.689	8395.982	11.367	113.7	1.591	2580		0.64

Compound name: M3PFBS
Response Factor: 1.39974
RRF SD: 0.110062, % Relative SD: 7.86304
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



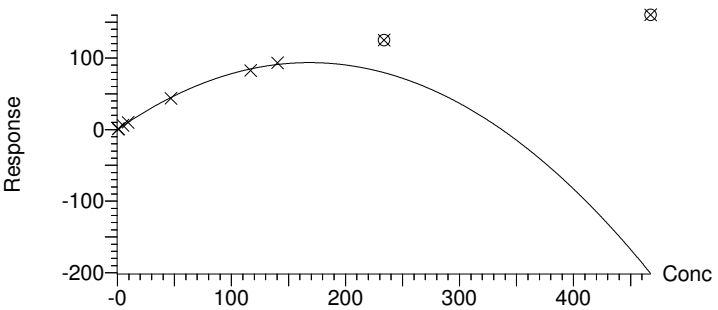
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.923	5031.747	265.139	0.475	101.7	1.127	4336	27	0.87
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	6.933	5701.004	638.102	1.011	108.2	1.197	305	8	0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.916	5712.227	3446.212	5.526	118.2	1.290	1288	329	0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.916	5560.028	5683.588	9.476	101.3	1.093	2549	351	1.00
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.916	6681.914	29143.561	45.413	97.1	0.933	20705	2396	0.95
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.909	8099.027	66775.891	110.524	94.6	0.705	15168	462	0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.909	9331.077	86895.203	157.479	112.3	0.664	12484	26719	0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.905	11231.326	140203.016			0.534	13232	4927	0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.905	16745.953	268377.688			0.343	35566	10844	0.86

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.998246
Calibration curve: -0.00329334 * x^2 + 1.10998 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



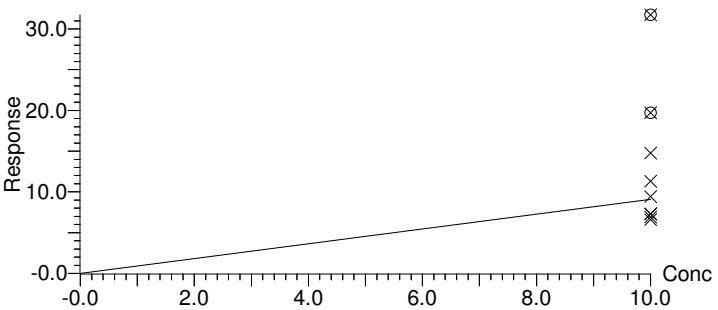
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.919	7620.767	5031.747	7.265	72.7	0.660	93122		0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	6.933	7797.159	5701.004	8.046	80.5	0.731	104927		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.916	8269.742	5712.227	7.601	76.0	0.691	1035		1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.916	7629.751	5560.028	8.019	80.2	0.729	541		0.94
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.913	7090.403	6681.914	10.370	103.7	0.942	4239		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.909	7149.182	8099.027	12.466	124.7	1.133	1149		0.93
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.909	6324.697	9331.077	16.234	162.3	1.475	163851		0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.909	5696.930	11231.326	21.693	216.9	1.971	1244		0.85
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.906	5276.689	16745.953	34.921	349.2	3.174	4689		0.84

Compound name: M2-4:2FTS
Response Factor: 0.908784
RRF SD: 0.301551, % Relative SD: 33.1818
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



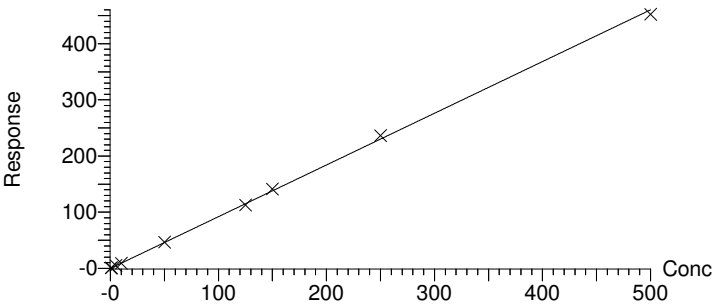
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.997	86318.461	4783.421	0.602	120.4	1.108	372	13	1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.014	89049.195	9448.923	1.153	115.3	1.061	775	72	0.96
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.997	87051.219	45761.648	5.710	114.2	1.051	3188	257	0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.997	85937.961	78643.000	9.941	99.4	0.915	3968	450	0.93
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.994	82847.523	385143.969	50.500	101.0	0.930	25319	2529	0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.990	77004.234	867096.500	122.320	97.9	0.901	44217	4573	0.93
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.990	76551.578	1081576.375	153.479	102.3	0.942	40523	6533	0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.987	73381.758	1733137.375	256.561	102.6	0.945	53786	10812	0.97
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.983	69255.578	3131820.000	491.234	98.2	0.904	91196	7077	0.93

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.999423
Calibration curve: 0.920564 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



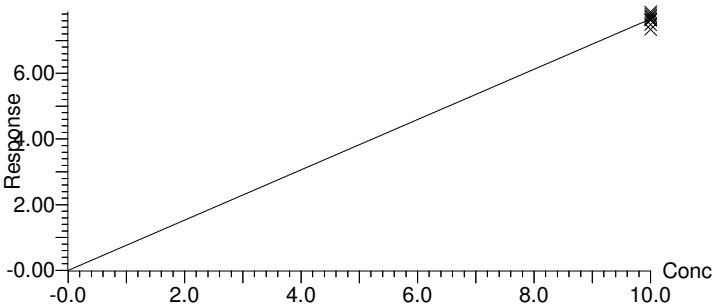
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	6.997	117636.820	86318.461	9.586	95.9	0.734	11836		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.010	114802.125	89049.195	10.133	101.3	0.776	7997		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	6.997	113627.328	87051.219	10.008	100.1	0.766	10533		0.96
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	6.994	114891.016	85937.961	9.771	97.7	0.748	14012		0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	6.994	107343.031	82847.523	10.082	100.8	0.772	9464		0.96
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	6.987	101103.344	77004.234	9.950	99.5	0.762	11330		0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	6.987	97990.719	76551.578	10.205	102.1	0.781	9373		1.01
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	6.987	96048.547	73381.758	9.981	99.8	0.764	11032		0.94
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	6.984	87971.789	69255.578	10.284	102.8	0.787	6283		0.93

Compound name: M5PFHxA
Response Factor: 0.765496
RRF SD: 0.0165596, % Relative SD: 2.16325
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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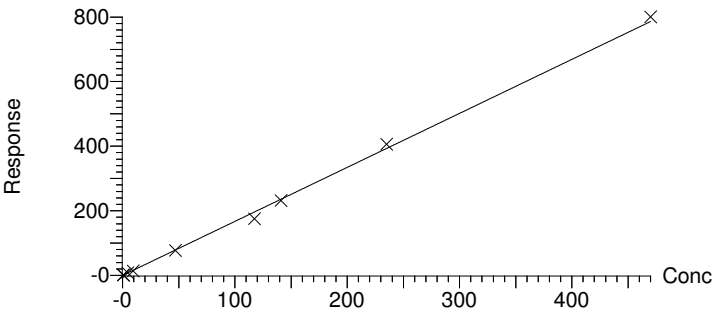
Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	7.309	6305.094	446.562	0.423	90.1	1.507	284	33	1.13
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.322	6708.928	946.722	0.844	89.8	1.501	14	62	0.97
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	7.309	6466.852	5126.527	4.740	100.9	1.687	494	60990	1.00
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	7.306	6314.215	9042.376	8.563	91.1	1.523	5665	2677	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	7.306	5737.190	44566.102	46.448	98.8	1.653	8476	3548	1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	7.296	5547.521	97344.078	104.923	89.3	1.493	14960	14826	1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	7.299	5231.039	121259.477	138.608	98.3	1.644	13032	18913	1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	7.293	4621.618	187634.234	242.760	103.3	1.728	19754	14066	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	7.283	3959.817	317014.781	478.701	101.9	1.703	34657	20744	1.11

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.998113
Calibration curve: 1.6724 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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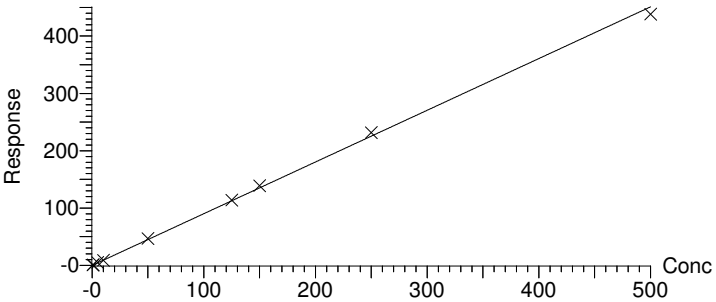
Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.261	117836.461	5195.347	0.489	97.8	0.882	360	77	1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.267	121641.055	11592.057	1.056	105.6	0.953	652	108	1.08
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.257	117691.789	60757.566	5.723	114.5	1.032	4284	937	1.06
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.257	116421.445	103796.039	9.884	98.8	0.892	6673	1168	0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.261	108576.563	506166.594	51.681	103.4	0.932	17764	6528	1.07
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.254	101436.859	1153905.625	126.109	100.9	0.910	37952	13087	1.06
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.254	102764.422	1427443.125	153.988	102.7	0.926	61661	14704	1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.257	95052.969	2202072.500	256.824	102.7	0.927	61936	17126	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.254	89172.406	3907235.500	485.746	97.1	0.876	58138	28566	1.10

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.999180
Calibration curve: 0.902048 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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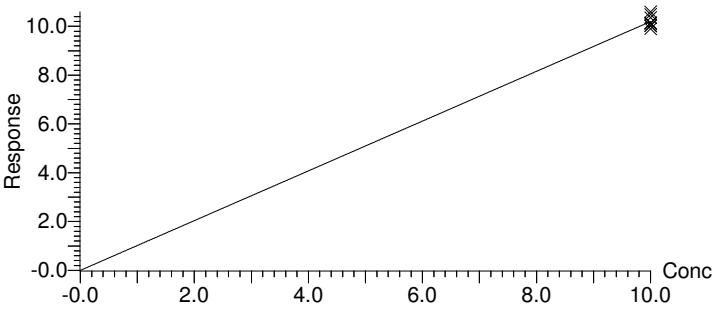
Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.261	117636.820	117836.461	9.824	98.2	1.002	9958		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.267	114802.125	121641.055	10.391	103.9	1.060	6274		1.06
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.257	113627.328	117691.789	10.158	101.6	1.036	16862		1.05
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.254	114891.016	116421.445	9.938	99.4	1.013	7116		1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.261	107343.031	108576.563	9.920	99.2	1.011	8349		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.254	101103.344	101436.859	9.839	98.4	1.003	7911		1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.254	97990.719	102764.422	10.285	102.8	1.049	4929		1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.257	96048.547	95052.969	9.705	97.1	0.990	7797		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.254	87971.789	89172.406	9.941	99.4	1.014	4562		1.09

Compound name: M4PFHpA
Response Factor: 1.01968
RRF SD: 0.0232692, % Relative SD: 2.282
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



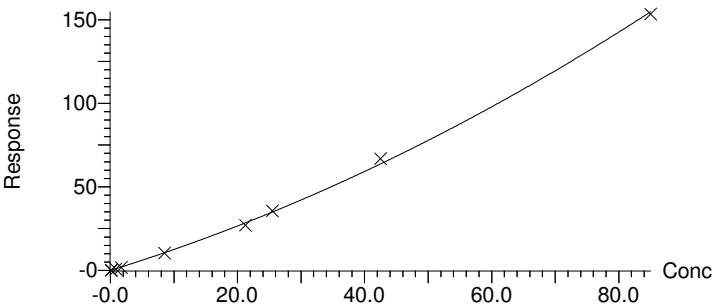
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.185	6305.094	11.237	0.015	17.8	0.210	1		0.26
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.135	6708.928	71.949	0.091	53.5	0.631	6	3	4.56
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.178	6466.852	518.690	0.678	79.8	0.944	16	7	0.47
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.185	6314.215	1050.500	1.400	82.4	0.979	63	33	0.42
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.185	5737.190	5931.751	8.333	98.0	1.216	185	73	0.45
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.178	5547.521	14988.256	20.296	95.5	1.271	1100	514	0.44
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.178	5231.039	18595.721	25.883	101.5	1.394	2530	273	0.46
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.181	4621.618	30899.139	44.216	104.0	1.573	868	707	0.44
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.181	3959.817	60734.234	84.444	99.3	1.804	4667	831	0.44

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.998684
Calibration curve: 0.00756262 * x^2 + 1.17768 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



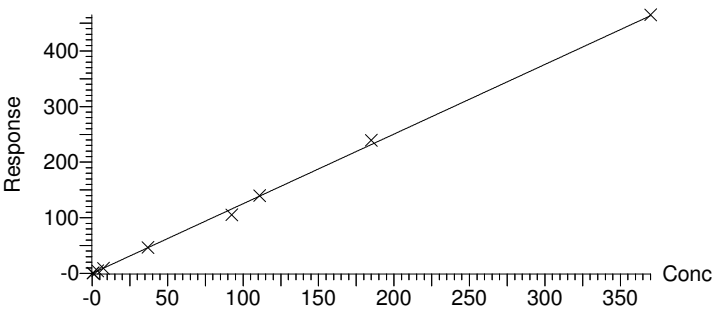
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.424	6305.094	259.238	0.328	88.7	1.111	20	15	0.68
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.420	6708.928	470.828	0.560	75.7	0.948	53	37	1.13
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.414	6466.852	3162.710	3.904	105.5	1.322	159	90	0.97
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.410	6314.215	5750.373	7.270	98.2	1.231	597	350	1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.417	5737.190	26815.008	37.313	100.8	1.263	1314	700	1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.410	5547.521	58360.066	83.984	90.8	1.137	6939	4653	1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.410	5231.039	73279.281	111.834	100.8	1.262	15404	2385	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.414	4621.618	110741.648	191.292	103.4	1.295	4739	5075	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.407	3959.817	184133.313	371.225	100.3	1.257	21995	5050	1.25

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.998646
Calibration curve: 1.25262 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



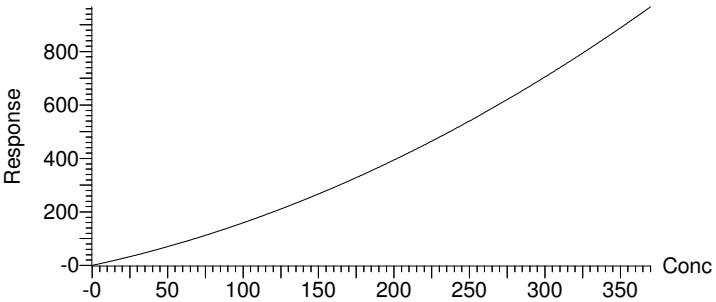
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		6305.094	270.475	0.343					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		6708.928	542.777	0.651					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		6466.852	3681.400	4.582					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		6314.215	6800.873	8.670					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		5737.190	32746.759	45.646					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		5547.521	73348.322	104.280					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		5231.039	91875.002	137.717					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		4621.618	141640.787	235.508					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		3959.817	244867.547	455.669					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.21515 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



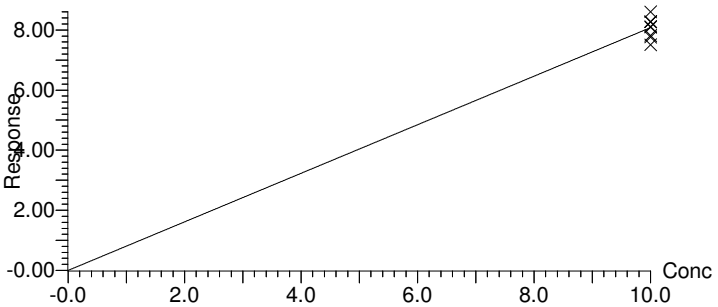
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.414	7620.767	6305.094	10.241	102.4	0.827	136293		1.11
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.424	7797.159	6708.928	10.650	106.5	0.860	144053		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.414	8269.742	6466.852	9.679	96.8	0.782	138118		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.410	7629.751	6314.215	10.243	102.4	0.828	1886		1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.414	7090.403	5737.190	10.015	100.2	0.809	700		1.19
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.410	7149.182	5547.521	9.605	96.0	0.776	12		1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.407	6324.697	5231.039	10.237	102.4	0.827	648		1.16
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.410	5696.930	4621.618	10.041	100.4	0.811	203		1.16
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.407	5276.689	3959.817	9.289	92.9	0.750	385		1.17

Compound name: M3PFHxS
Response Factor: 0.807915
RRF SD: 0.033353, % Relative SD: 4.12828
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



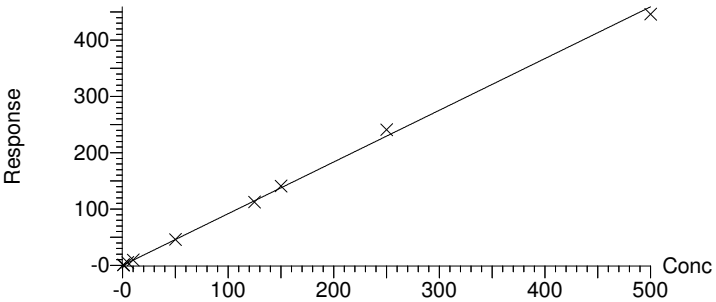
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		114742.953							
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		115929.242							
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		112562.227							
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		109470.945							
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		106781.555							
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		98244.656							
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		98053.172							
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		90653.047						3	
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		85048.031						2	

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998806
Calibration curve: 0.918228 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



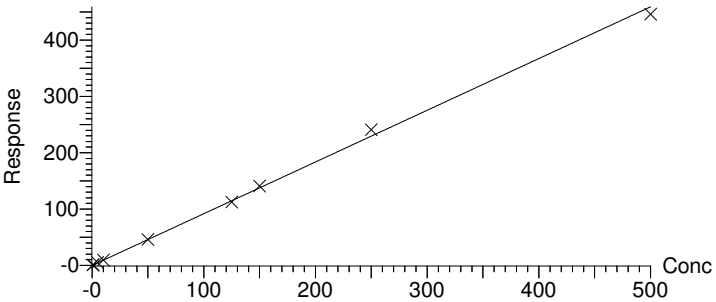
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.195	114742.953	5268.463	0.500	100.0	0.918	138	61	1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.201	115929.242	11899.890	1.118	111.8	1.026	324	80	1.08
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.192	112562.227	58197.820	5.631	112.6	1.034	1597	182	1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.192	109470.945	105110.031	10.457	104.6	0.960	3137	231297	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.198	106781.555	491336.344	50.111	100.2	0.920	13186	348	1.11
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.192	98244.656	1104013.250	122.381	97.9	0.899	25245	15685	1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.189	98053.172	1380425.125	153.321	102.2	0.939	34514	5127	1.12
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.195	90653.047	2184240.000	262.402	105.0	0.964	28539	12915	1.10
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.195	85048.031	3792057.500	485.579	97.1	0.892	73682	13446	1.15

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.998806
Calibration curve: 0.918228 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



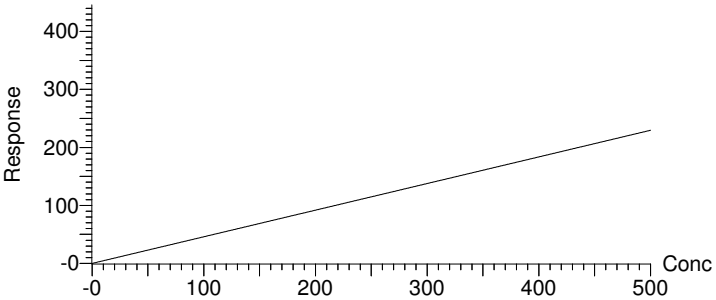
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		114742.953	5268.463	0.500					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		115929.242	11899.890	1.118					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		112562.227	58197.820	5.631					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		109470.945	105110.031	10.457					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		106781.555	491336.344	50.111					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		98244.656	1104013.250	122.381					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		98053.172	1380425.125	153.321					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		90653.047	2184240.000	262.402					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		85048.031	3792057.500	485.579					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.459114 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



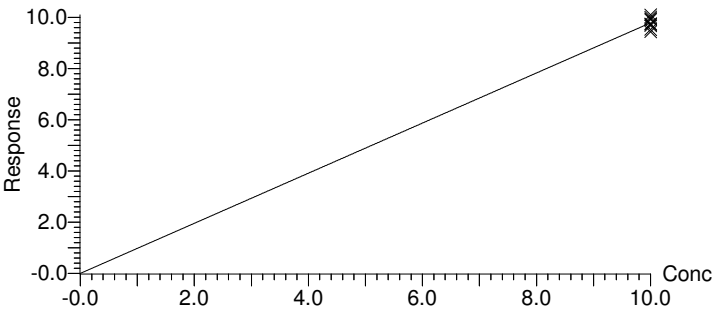
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.195	117636.820	114742.953	9.968	99.7	0.975	6801		1.02
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.201	114802.125	115929.242	10.320	103.2	1.010	11747		1.01
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.189	113627.328	112562.227	10.124	101.2	0.991	2472767		1.08
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.189	114891.016	109470.945	9.738	97.4	0.953	2330920		1.11
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.198	107343.031	106781.555	10.166	101.7	0.995	7478		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.192	101103.344	98244.656	9.931	99.3	0.972	11749		1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.189	97990.719	98053.172	10.226	102.3	1.001	32823		1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.195	96048.547	90653.047	9.646	96.5	0.944	4405		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.195	87971.789	85048.031	9.880	98.8	0.967	2298		1.09

Compound name: M8PFOA
Response Factor: 0.978488
RRF SD: 0.0221851, % Relative SD: 2.26728
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



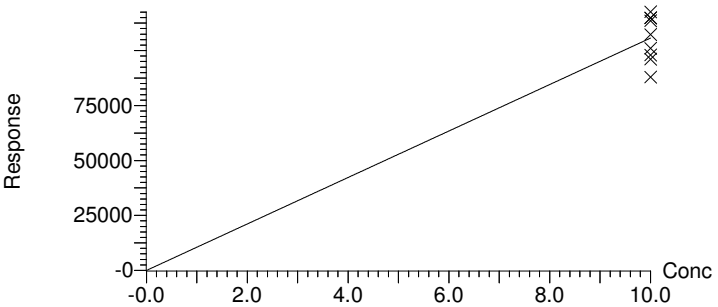
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.195		117636.820	11.128	111.3	11763.682	9674		1.05
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.201		114802.125	10.860	108.6	11480.213	11792		1.07
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.192		113627.328	10.749	107.5	11362.733	8335		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.192		114891.016	10.868	108.7	11489.102	6316		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.198		107343.031	10.154	101.5	10734.303	6504		1.07
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.192		101103.344	9.564	95.6	10110.334	13673		1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.189		97990.719	9.270	92.7	9799.072	15591		1.13
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.195		96048.547	9.086	90.9	9604.855	6987		1.12
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.195		87971.789	8.322	83.2	8797.179	7087		1.17

Compound name: M2PFOA
Response Factor: 10571.3
RRF SD: 1038.84, % Relative SD: 9.82703
Response type: External Std, Area
Curve type: RF



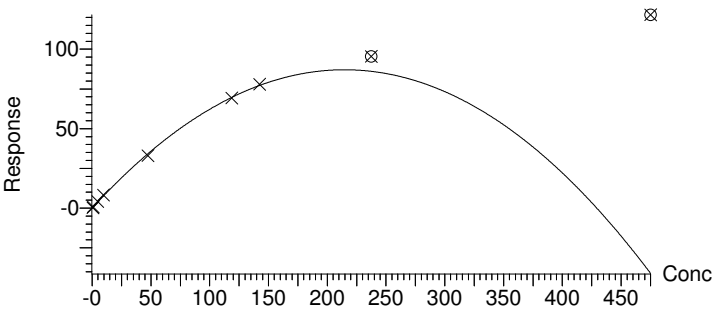
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.151	5244.259	136.521	0.321	67.6	0.548	43		1.18
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.160	5793.605	472.065	1.007	106.0	0.858	11270		1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.154	5686.892	2364.637	5.188	109.2	0.875	2595	2922	1.04
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.151	5537.379	4543.102	10.363	109.1	0.864	90	10198	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.157	6923.649	22887.639	45.588	96.0	0.696	2509	49281	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.151	7531.343	52169.430	117.597	99.0	0.583	24000	105127	1.11
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.147	8490.607	66168.844	145.112	101.8	0.547	9501	143411	1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.154	11016.425	105134.914			0.402	8557	244179	1.04
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.154	16172.786	196700.500			0.256	9005	445042	1.05

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.998705
Calibration curve: -0.00188986 * x^2 + 0.811287 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



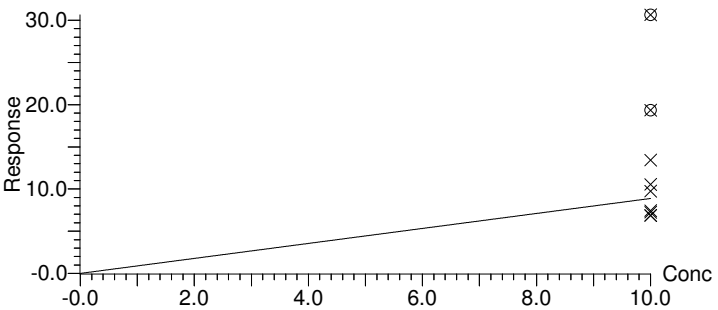
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.154	7620.767	5244.259	7.748	77.5	0.688	1856		1.08
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.163	7797.159	5793.605	8.366	83.7	0.743	130134		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.151	8269.742	5686.892	7.743	77.4	0.688	1728		1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.151	7629.751	5537.379	8.172	81.7	0.726	128419		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.160	7090.403	6923.649	10.995	109.9	0.976	3006		0.94
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.154	7149.182	7531.343	11.861	118.6	1.053	173852		0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.151	6324.697	8490.607	15.115	151.2	1.342	866		0.96
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.154	5696.930	11016.425	21.773	217.7	1.934	251479		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.154	5276.689	16172.786	34.510	345.1	3.065	3544		1.05

Compound name: M2-6:2FTS
Response Factor: 0.888146
RRF SD: 0.248037, % Relative SD: 27.9275
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



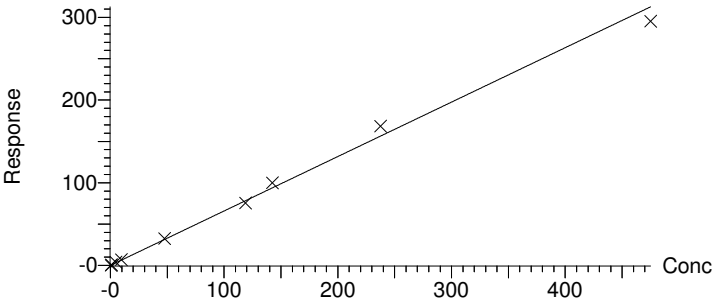
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.288	7863.209	144.360	0.279	58.7	0.387	221	10	0.78
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.288	8337.590	621.729	1.132	119.2	0.785	155	101	1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.279	7856.718	2920.696	5.646	118.9	0.783	797	309	1.12
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.282	7611.157	5201.360	10.378	109.2	0.719	12	669	0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.288	7647.324	24823.602	49.296	103.8	0.683	4812	2802	1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.282	6866.474	51706.141	114.358	96.3	0.634	1116814	5891	1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.279	6560.688	65508.563	151.638	106.4	0.701	6932	3799	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.285	5910.273	99602.891	255.931	107.8	0.710	1917	10570	1.08
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.285	5658.023	167009.734	448.266	94.4	0.621	17852	20289	1.15

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.995952
Calibration curve: 0.658478 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



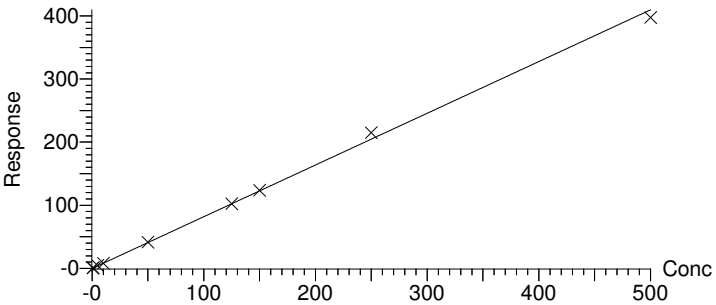
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.946	114401.953	4410.776	0.471	94.1	0.771	122	301	1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.950	113246.805	10939.968	1.179	117.9	0.966	299	51723	0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.941	112215.648	52307.785	5.690	113.8	0.932	1092	243154	1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.941	112653.875	90734.125	9.831	98.3	0.805	2463	708	1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.950	104182.664	434642.250	50.925	101.8	0.834	10328	7740	0.98
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.946	94452.336	964953.875	124.705	99.8	0.817	30563	8818	0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.941	96585.883	1196780.250	151.249	100.8	0.826	30019	13273	1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.946	87852.000	1887084.875	262.199	104.9	0.859	40376	21285	1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.946	82060.539	3262201.750	485.252	97.1	0.795	81231	41203	1.06

Compound name: PFNA
Coefficient of Determination: R^2 = 0.998884
Calibration curve: 0.819236 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



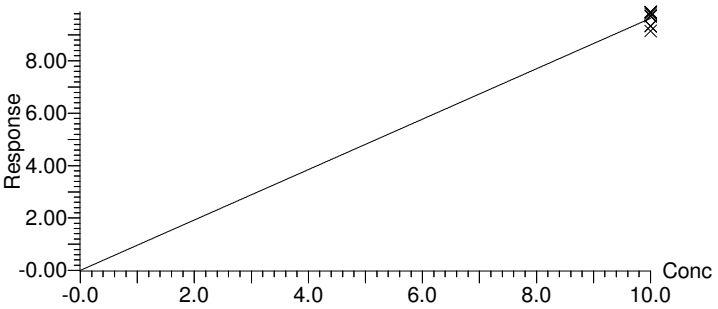
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.946	117636.820	114401.953	10.101	101.0	0.973	16011		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.950	114802.125	113246.805	10.246	102.5	0.986	34666		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.941	113627.328	112215.648	10.258	102.6	0.988	11385		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.941	114891.016	112653.875	10.184	101.8	0.981	12874		1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.946	107343.031	104182.664	10.081	100.8	0.971	6038		1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.941	101103.344	94452.336	9.703	97.0	0.934	462		1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.941	97990.719	96585.883	10.238	102.4	0.986	2951		1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.946	96048.547	87852.000	9.500	95.0	0.915	4214		1.00
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.946	87971.789	82060.539	9.689	96.9	0.933	8159		1.04

Compound name: M9PFNA
Response Factor: 0.962774
RRF SD: 0.0278357, % Relative SD: 2.89119
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



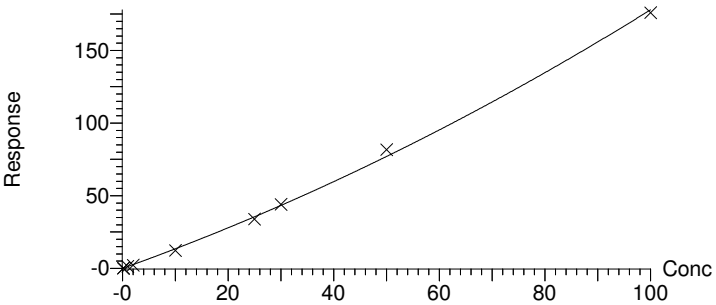
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.724	7863.209	63.022	0.062	61.5	0.801	1		4.31
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.809	8337.590	144.024	0.133	66.3	0.864	7	5	0.44
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.801	7856.718	1018.896	0.992	99.2	1.297	66	8	0.38
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.801	7611.157	1719.872	1.724	86.2	1.130	60	50	0.47
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.809	7647.324	9374.953	9.110	91.1	1.226	206	58	0.37
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.805	6866.474	23335.752	23.990	96.0	1.359	254	146	0.38
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.801	6560.688	28882.205	30.417	101.4	1.467	969	130741	0.41
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.809	5910.273	48275.703	52.590	105.2	1.634	1207	725	0.38
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.809	5658.023	99553.039	99.112	99.1	1.760	64	1430	0.39

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.998470
Calibration curve: 0.0047735 * x^2 + 1.30214 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



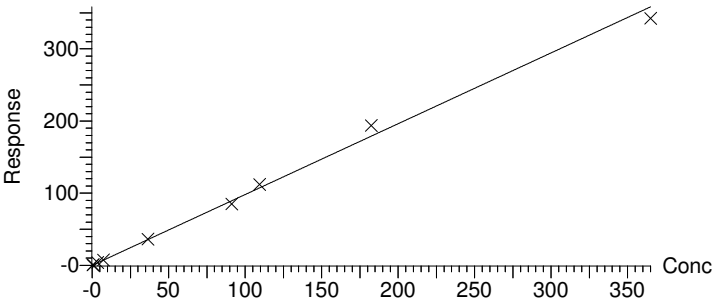
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.0...	7863.209	210.105	0.272	74.6	0.732	7	5455	0.73
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.0...	8337.590	646.229	0.790	108.2	1.062	57	38	1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.993	7856.718	3141.077	4.074	111.6	1.095	356	84	0.93
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.993	7611.157	5686.805	7.613	104.3	1.024	417	466	0.94
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.997	7647.324	27678.270	36.880	101.0	0.992	1273	545	1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.993	6866.474	58381.578	86.636	94.9	0.932	1365	1277	1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.993	6560.688	73590.516	114.296	104.4	1.024	5274	1018150	0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.997	5910.273	114601.617	197.579	108.3	1.062	5829	5448	1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.997	5658.023	193598.438	348.655	95.5	0.937	263	8522	1.08

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.996780
Calibration curve: 0.98139 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



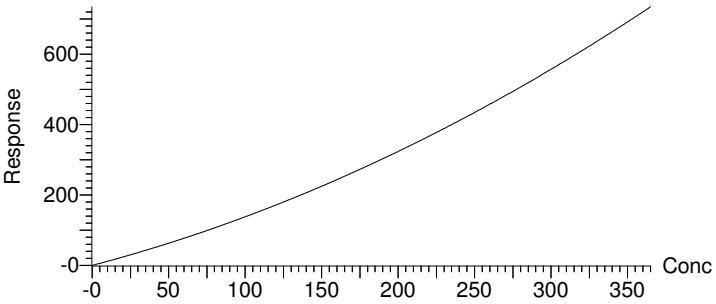
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		7863.209	273.127	0.334					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		8337.590	790.253	0.922					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		7856.718	4159.973	5.066					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		7611.157	7406.677	9.338					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		7647.324	37053.223	45.990					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		6866.474	81717.330	110.626					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		6560.688	102472.721	144.713					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		5910.273	162877.320	250.169					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		5658.023	293151.477	447.767					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.14177 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



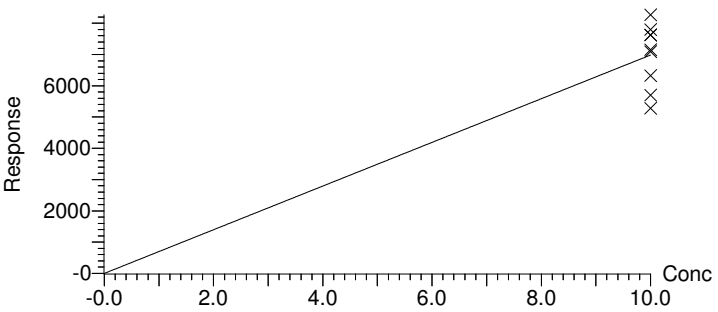
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.997		7620.767	10.912	109.1	762.077	157037		0.93
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.0...		7797.159	11.164	111.6	779.716	167149		0.90
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.989		8269.742	11.841	118.4	826.974	177403		1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.993		7629.751	10.925	109.2	762.975	159530		0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.997		7090.403	10.152	101.5	709.040	146923		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.993		7149.182	10.237	102.4	714.918	1645		1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.993		6324.697	9.056	90.6	632.470	128909		0.95
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.997		5696.930	8.157	81.6	569.693	1209		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.997		5276.689	7.555	75.6	527.669	101650		1.07

Compound name: M4PFOS
Response Factor: 698.392
RRF SD: 101.128, % Relative SD: 14.4802
Response type: External Std, Area
Curve type: RF



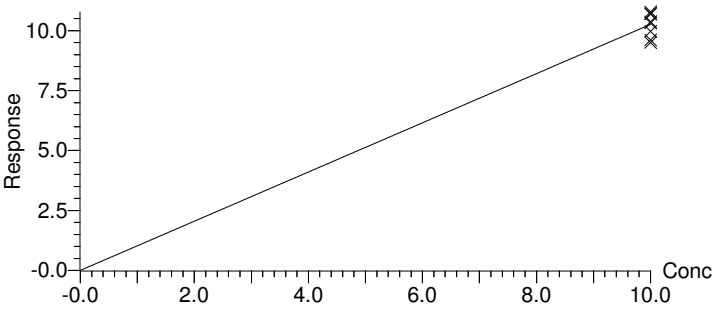
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	9.993	7620.767	7863.209	10.056	100.6	1.032	165326		1.01
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	9.998	7797.159	8337.590	10.421	104.2	1.069	174045		1.05
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	9.989	8269.742	7856.718	9.259	92.6	0.950	4400		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	9.993	7629.751	7611.157	9.722	97.2	0.998	1249		0.96
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	9.998	7090.403	7647.324	10.511	105.1	1.079	1059		1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	9.993	7149.182	6866.474	9.360	93.6	0.960	317		1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	9.993	6324.697	6560.688	10.109	101.1	1.037	667		0.91
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	9.998	5696.930	5910.273	10.111	101.1	1.037	412		0.96
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	9.998	5276.689	5658.023	10.450	104.5	1.072	376		1.04

Compound name: M8PFOS
Response Factor: 1.02609
RRF SD: 0.0473585, % Relative SD: 4.61545
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



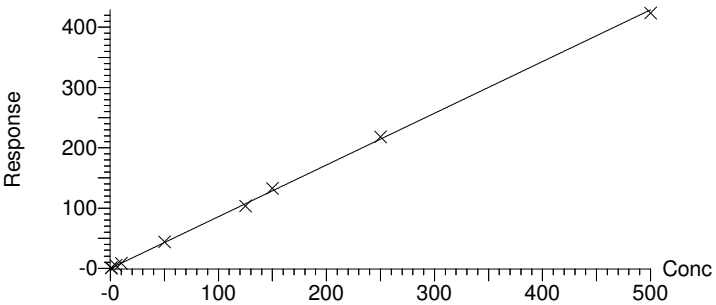
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	105486.805	4685.706	0.518	103.6	0.888	152	14	1.17
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	109985.242	9944.646	1.054	105.4	0.904	358	39777	1.15
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	104239.750	49945.277	5.585	111.7	0.958	1959	1493	1.04
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	101094.977	86872.859	10.017	100.2	0.859	2485	3214	0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	92826.750	409066.531	51.371	102.7	0.881	9042	2580	1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	84901.406	877900.563	120.538	96.4	0.827	16762	6535	1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	82198.586	1090370.000	154.634	103.1	0.884	26036	15544	1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	74923.039	1633247.125	254.115	101.6	0.872	18176	5568	1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	66209.734	2803895.000	493.667	98.7	0.847	52614	17537	1.06

Compound name: PFDA
Coefficient of Determination: R^2 = 0.999475
Calibration curve: 0.857838 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



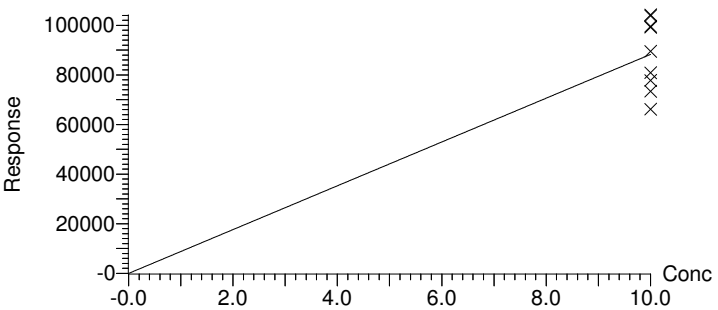
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...		103829.906	11.760	117.6	10382.991	16120		0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...		104230.492	11.805	118.1	10423.049	27028		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...		99527.453	11.273	112.7	9952.745	19482		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...		99233.398	11.239	112.4	9923.340	36690		0.99
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...		89579.898	10.146	101.5	8957.990	34795		0.98
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...		80832.117	9.155	91.6	8083.212	33177		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...		77816.188	8.814	88.1	7781.619	19275		1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...		73446.680	8.319	83.2	7344.668	25437		0.99
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...		66126.813	7.490	74.9	6612.681	16215		1.03

Compound name: M2PFDA
Response Factor: 8829.14
RRF SD: 1423.09, % Relative SD: 16.1181
Response type: External Std, Area
Curve type: RF



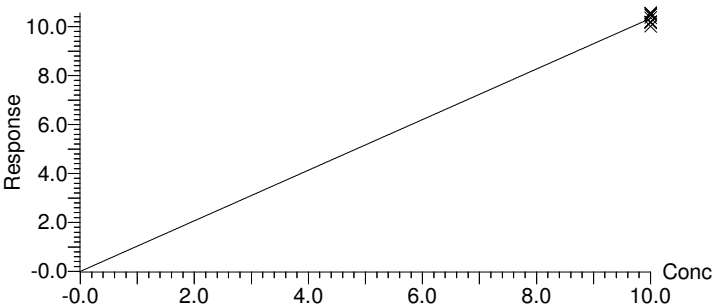
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	103829.906	105486.805	9.830	98.3	1.016	4853		1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	104230.492	109985.242	10.210	102.1	1.055	6939		1.06
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	99527.453	104239.750	10.134	101.3	1.047	6601		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	99233.398	101094.977	9.857	98.6	1.019	19676		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	89579.898	92826.750	10.027	100.3	1.036	15009		0.95
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	80832.117	84901.406	10.163	101.6	1.050	1747		0.97
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	77816.188	82198.586	10.221	102.2	1.056	7076		1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	73446.680	74923.039	9.870	98.7	1.020	14482		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	66126.813	66209.734	9.688	96.9	1.001	3663		1.02

Compound name: M6PFDA
Response Factor: 1.0335
RRF SD: 0.0200603, % Relative SD: 1.94099
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



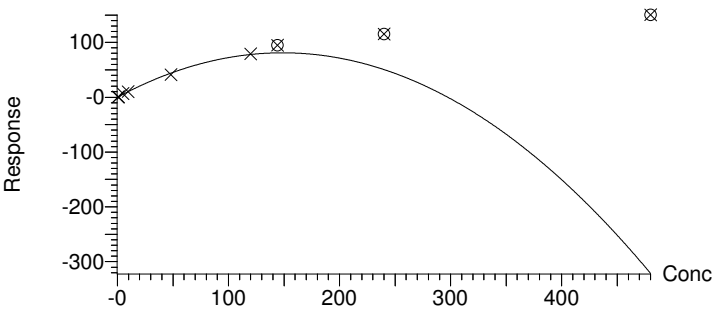
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	3535.170	206.802	0.538	112.0	1.219	54		1.30
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	3740.494	354.823	0.873	90.9	0.988	60		1.18
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	3681.261	2398.694	6.103	127.1	1.357	55942		1.05
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	3572.389	3723.282	9.890	103.0	1.086	88711		1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	4282.424	17680.184	44.549	92.8	0.860	408290		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	4755.468	37557.445	124.992	104.2	0.658	855186		1.07
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	4958.818	47138.504			0.660	22817		1.11
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	6317.642	72996.211			0.481	5819		1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	8145.643	122449.109			0.313	4892		1.11

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.994263
Calibration curve: -0.00366564 * x^2 + 1.09004 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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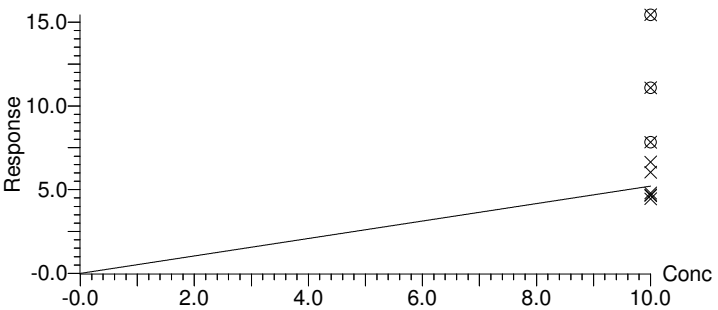
Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.5...	7620.767	3535.170	8.903	89.0	0.464	69325		1.02
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.5...	7797.159	3740.494	9.207	92.1	0.480	291		0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.5...	8269.742	3681.261	8.544	85.4	0.445	405		1.05
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.5...	7629.751	3572.389	8.987	89.9	0.468	1911		0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.5...	7090.403	4282.424	11.592	115.9	0.604	83195		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.5...	7149.182	4755.468	12.767	127.7	0.665	891		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	6324.697	4958.818	15.048	150.5	0.784	100651		1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.5...	5696.930	6317.642	21.284	212.8	1.109	129365		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.5...	5276.689	8145.643	29.628	296.3	1.544	164641		1.03

Compound name: M2-8:2FTS
Response Factor: 0.521022
RRF SD: 0.0907487, % Relative SD: 17.4175
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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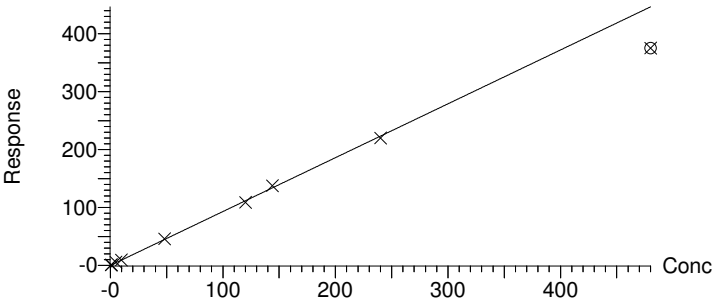
Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.6...	7863.209	306.160	0.419	87.2	0.811	12	8899	1.15
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.6...	8337.590	842.429	1.086	113.1	1.052	70	256	1.40
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.6...	7856.718	4373.127	5.984	124.7	1.160	2375	78894	0.92
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.6...	7611.157	7010.277	9.902	103.1	0.959	160780	136329	0.94
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.6...	7647.324	34940.902	49.120	102.3	0.952	4532	1399	0.94
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.6...	6866.474	74579.766	116.767	97.3	0.905	5435	9027	0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.5...	6560.688	90355.602	148.060	102.8	0.956	27749	1627883	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.6...	5910.273	130020.867	236.503	98.5	0.917	17714	4054	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.6...	5658.023	212194.906	403.183	84.0	0.781	21595	23707	1.02

Compound name: PFNS
Coefficient of Determination: R^2 = 0.998898
Calibration curve: 0.930183 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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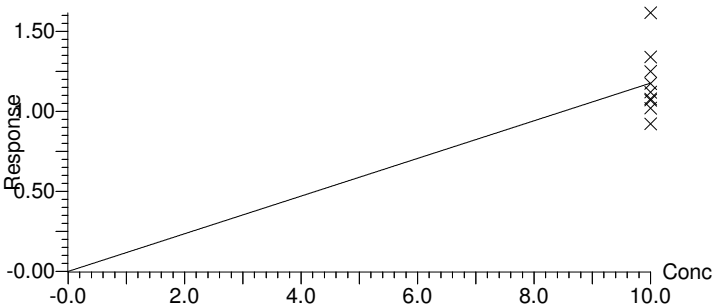
Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.9...	103829.906	9575.763	7.836	78.4	0.092	308		0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.9...	104230.492	11161.044	9.098	91.0	0.107	219724		0.97
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.9...	99527.453	10155.847	8.669	86.7	0.102	3683		1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.9...	99233.398	10699.074	9.160	91.6	0.108	1878		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.9...	89579.898	10035.015	9.518	95.2	0.112	566		1.02
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.9...	80832.117	9496.166	9.981	99.8	0.117	188703		0.98
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.9...	77816.188	9724.458	10.617	106.2	0.125	192845		0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.9...	73446.680	9845.680	11.389	113.9	0.134	2041		1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.9...	66126.813	10688.211	13.732	137.3	0.162	1840		0.99

Compound name: d3-NMeFOSAA
Response Factor: 0.117702
RRF SD: 0.0205764, % Relative SD: 17.4818
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



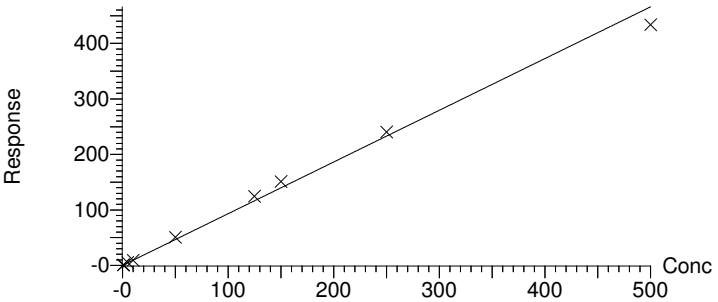
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		9575.763							
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		11161.044							
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		10155.847							
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		10699.074							
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		10035.015							
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		9496.166							
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9724.458							
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		9845.680							
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		10688.211						2	

Compound name: L-NMeFOSAA
Coefficient of Determination: R^2 = 0.995480
Calibration curve: 0.931991 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



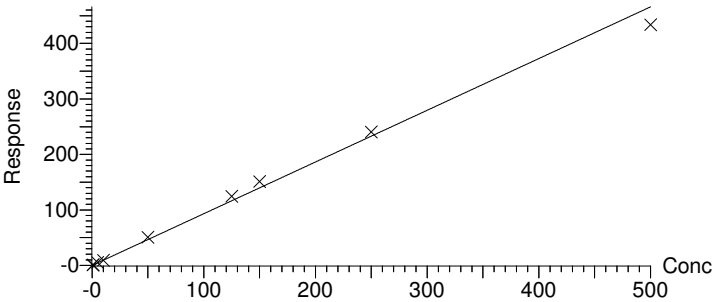
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.9...	9575.763	324.541	0.364	72.7	0.678	7	22	1.05
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.9...	11161.044	1166.739	1.122	112.2	1.045	17132	8	0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.9...	10155.847	5530.176	5.843	116.9	1.089	1686	28880	1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.9...	10699.074	9818.126	9.846	98.5	0.918	2994	52535	0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.9...	10035.015	51048.320	54.582	109.2	1.017	2351	487	0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.9...	9496.166	118338.813	133.711	107.0	0.997	4519	15054	1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.9...	9724.458	146964.844	162.157	108.1	1.008	4558	447	0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.9...	9845.680	236955.250	258.231	103.3	0.963	7059	10078	1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.9...	10688.211	463842.188	465.644	93.1	0.868	11998	6925	0.96

Compound name: L-NMeFOSAA
Coefficient of Determination: R^2 = 0.995480
Calibration curve: 0.931991 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



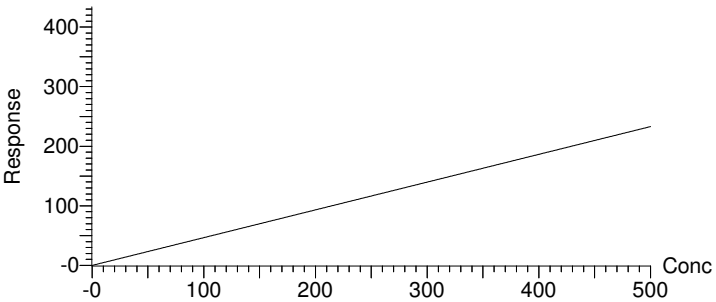
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		9575.763	324.541	0.364					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		11161.044	1166.739	1.122					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		10155.847	5530.176	5.843					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		10699.074	9818.126	9.846					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		10035.015	51048.320	54.582					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		9496.166	118338.813	133.711					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9724.458	146964.844	162.157					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		9845.680	236955.250	258.231					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		10688.211	463842.188	465.644					

Compound name: NMeFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.465995 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



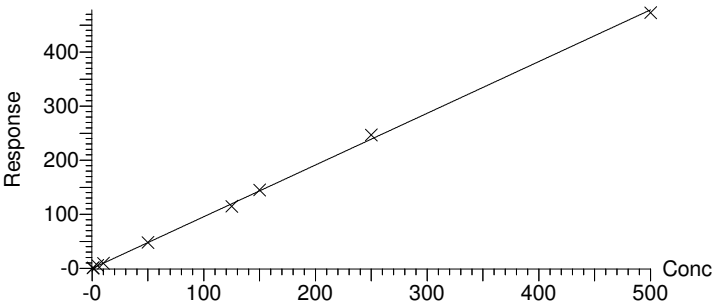
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.117	101992.055	4611.769	0.473	94.6	0.904	115	10041	1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.122	101388.047	10026.410	1.034	103.4	0.989	330	35178	1.07
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.117	97997.672	51117.012	5.455	109.1	1.043	1178	398	0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.112	93371.281	88904.188	9.957	99.6	0.952	2037	251288	1.07
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.117	82849.375	396062.781	49.990	100.0	0.956	10506	24547	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.112	71788.461	824707.938	120.130	96.1	0.919	19883	2311444	1.09
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.112	69882.930	1013266.063	151.620	101.1	0.967	26453	21061	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.112	61087.184	1508727.250	258.265	103.3	0.988	32170	8460	1.09
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.112	54794.387	2591577.000	494.577	98.9	0.946	37276	9772	1.14

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.999453
Calibration curve: 0.956301 * x
Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



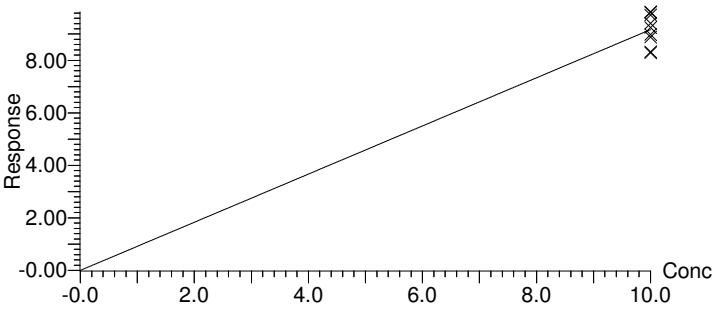
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.118	103829.906	101992.055	10.713	107.1	0.982	3734		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.123	104230.492	101388.047	10.609	106.1	0.973	6468		1.03
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.113	99527.453	97997.672	10.739	107.4	0.985	3765		1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.113	99233.398	93371.281	10.262	102.6	0.941	16231		1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.118	89579.898	82849.375	10.087	100.9	0.925	5955		1.02
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.113	80832.117	71788.461	9.686	96.9	0.888	1384858		1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.113	77816.188	69882.930	9.795	97.9	0.898	2851		1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.113	73446.680	61087.184	9.071	90.7	0.832	2216		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.113	66126.813	54794.387	9.037	90.4	0.829	2563		1.08

Compound name: M7-PFUDA
Response Factor: 0.916885
RRF SD: 0.0600555, % Relative SD: 6.54995
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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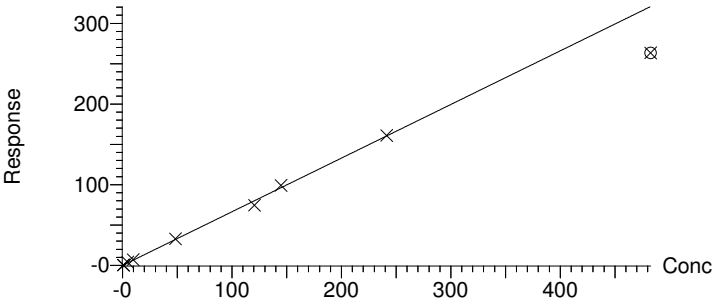
Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.123	7863.209	242.685	0.464	96.2	0.640	5894	6	1.58
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.133	8337.590	482.343	0.870	90.2	0.599	35	132	1.25
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.128	7856.718	3124.329	5.981	124.0	0.824	73500	81546	0.97
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.123	7611.157	5332.887	10.538	109.2	0.726	124985	1343	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.128	7647.324	25123.271	49.411	102.4	0.681	1473	1913	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.123	6866.474	51137.266	112.012	92.9	0.617	44971	2446	1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.123	6560.688	65178.430	149.422	103.2	0.686	3491	1062	1.06
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.123	5910.273	95134.438	242.098	100.4	0.667	7675	3091	1.08
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.128	5658.023	148916.188	395.857	82.0	0.545	9282	21096	1.02

Compound name: PFDS
Coefficient of Determination: R^2 = 0.997891
Calibration curve: 0.664874 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



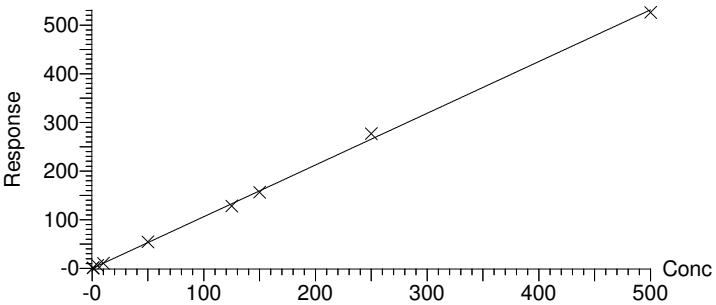
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.011	22949.115	942.301	0.386	77.3	0.821	22594		0.94
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.011	22475.113	2798.189	1.172	117.2	1.245	908		1.21
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.006	22388.170	12992.135	5.461	109.2	1.161	2604	22	1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.006	23068.303	23946.777	9.769	97.7	1.038	7062	25	1.02
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.011	21401.279	116432.289	51.200	102.4	1.088	4222	115	1.06
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.005	20660.598	264460.531	120.464	96.4	1.024	8490	57	1.08
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.006	21330.230	333811.938	147.280	98.2	1.043	9509	58640	1.08
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.010	19354.936	535815.375	260.532	104.2	1.107	9601	143	1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.010	18051.570	949921.375	495.235	99.0	1.052	9851	157929	1.11

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999218
Calibration curve: 1.06258 * x
Response type: Internal Std (Ref 48), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
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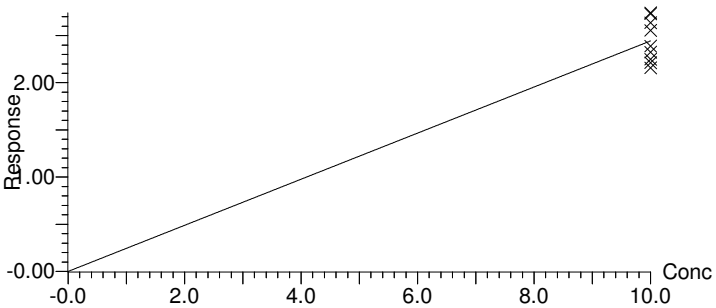
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.006	103829.906	22949.115	9.045	90.5	0.221	1034		1.07
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.011	104230.492	22475.113	8.824	88.2	0.216	3033		1.03
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.006	99527.453	22388.170	9.206	92.1	0.225	1670		0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.006	99233.398	23068.303	9.513	95.1	0.232	946		1.00
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.011	89579.898	21401.279	9.777	97.8	0.239	1986		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.006	80832.117	20660.598	10.460	104.6	0.256	872		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.006	77816.188	21330.230	11.218	112.2	0.274	4434		1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.006	73446.680	19354.936	10.784	107.8	0.264	361072		1.08
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.011	66126.813	18051.570	11.172	111.7	0.273	4636		1.06

Compound name: M8FOSA
Response Factor: 0.244354
RRF SD: 0.0226829, % Relative SD: 9.28279
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



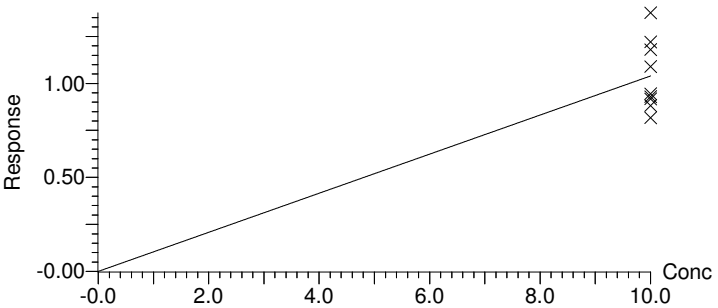
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.248	103829.906	8483.435	7.858	78.6	0.082	1030		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.252	104230.492	9857.291	9.096	91.0	0.095	3828		1.05
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.243	99527.453	9136.918	8.829	88.3	0.092	1068		1.15
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.243	99233.398	9223.351	8.939	89.4	0.093	1583		1.06
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.248	89579.898	7892.435	8.474	84.7	0.088	178651		1.04
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.243	80832.117	8802.899	10.474	104.7	0.109	1769		1.10
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.243	77816.188	9185.745	11.353	113.5	0.118	1731		1.10
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.243	73446.680	8969.788	11.746	117.5	0.122	710		1.10
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.248	66126.813	9096.541	13.230	132.3	0.138	693		1.08

Compound name: d5-NEtFOSAA
Response Factor: 0.103974
RRF SD: 0.0186608, % Relative SD: 17.9476
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



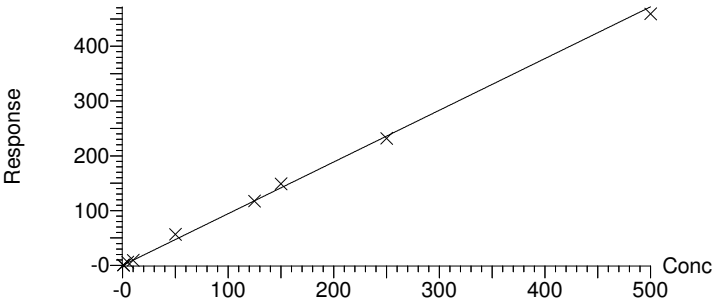
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: br-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		8483.435							
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		9857.291							
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		9136.918							
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		9223.351							
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		7892.435							
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		8802.899							
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9185.745						3	
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		8969.788						2	
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		9096.541							

Compound name: L-NEtFOSAA
Coefficient of Determination: R^2 = 0.997234
Calibration curve: 0.944028 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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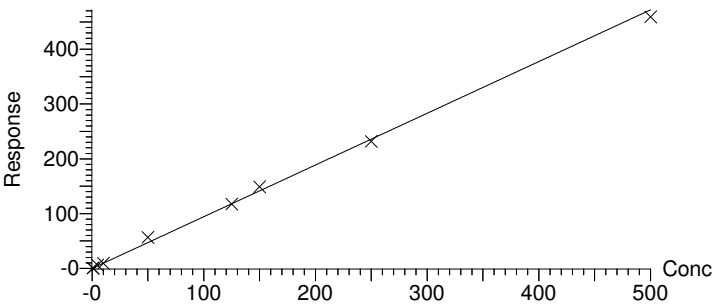
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: L-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.257	8483.435	426.209	0.532	106.4	1.005	62	2747	0.87
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.262	9857.291	836.497	0.899	89.9	0.849	34	8746	1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.252	9136.918	5153.751	5.975	119.5	1.128	1752	345	1.16
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.252	9223.351	8885.692	10.205	102.1	0.963	687	385	0.95
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.257	7892.435	44566.316	59.815	119.6	1.129	1964	400594	1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.252	8802.899	103539.305	124.593	99.7	0.941	4441	1784	1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.252	9185.745	136568.641	157.490	105.0	0.991	5806	2187	1.02
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.252	8969.788	207895.938	245.516	98.2	0.927	6928	3432	1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.252	9096.541	417755.188	486.475	97.3	0.918	10854	4433	1.14

Compound name: L-NEtFOSAA
Coefficient of Determination: R^2 = 0.997234
Calibration curve: 0.944028 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



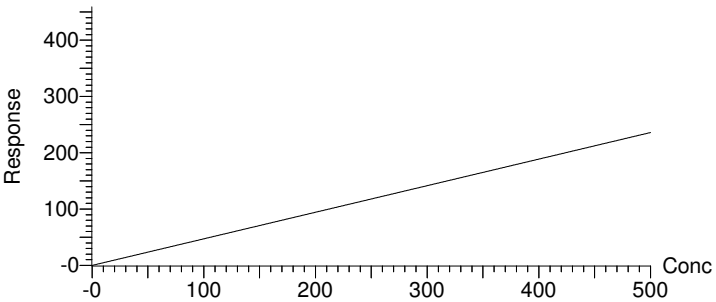
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43		8483.435	426.209	0.532					
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49		9857.291	836.497	0.899					
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20		9136.918	5153.751	5.975					
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51		9223.351	8885.692	10.205					
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24		7892.435	44566.316	59.815					
6	I13439	IA2-537STD125	18-Nov-19	12:00:10		8802.899	103539.305	124.593					
7	I13440	IA2-537STD150	18-Nov-19	12:16:43		9185.745	136568.641	157.490					
8	I13441	IA2-537STD250	18-Nov-19	12:33:16		8969.788	207895.938	245.516					
9	I13442	IA2-537STD500	18-Nov-19	12:49:53		9096.541	417755.188	486.475					

Compound name: NEtFOSAA
Coefficient of Determination: 0.000000
Calibration curve: 0.472014 * x
Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



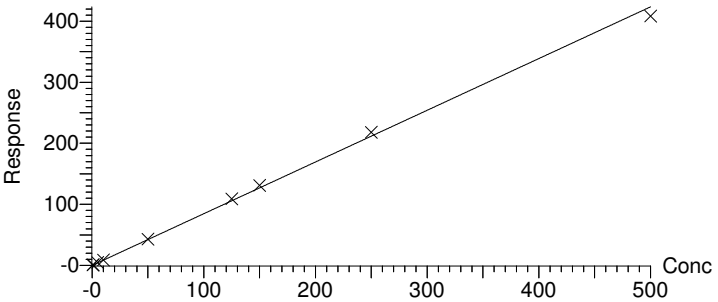
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.593	103376.742	4841.695	0.553	110.6	0.937	139	7515	1.07
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.598	103352.375	9531.423	1.089	108.9	0.922	278	18864	0.95
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.589	103349.367	48924.336	5.589	111.8	0.947	1385	869	1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.589	96274.898	85750.094	10.516	105.2	0.891	2452	3838	0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.589	95651.234	409028.406	50.488	101.0	0.855	11691	724138	1.11
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.585	81334.875	888518.938	128.977	103.2	0.874	14901	1941	1.06
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.585	83380.609	1093507.375	154.839	103.2	0.874	23865	8361	1.09
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.585	76995.367	1677289.500	257.198	102.9	0.871	31976	13513	1.09
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.585	70623.688	2884692.250	482.251	96.5	0.817	56108	4560	1.12

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.998842
Calibration curve: 0.846986 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



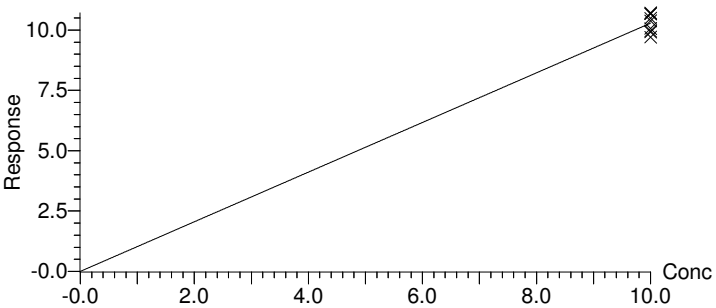
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.594	103829.906	103376.742	9.679	96.8	0.996	4969		1.00
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.598	104230.492	103352.375	9.640	96.4	0.992	8544		0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.589	99527.453	103349.367	10.095	101.0	1.038	5335		1.00
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.589	99233.398	96274.898	9.432	94.3	0.970	5623		0.96
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.589	89579.898	95651.234	10.381	103.8	1.068	6934		1.08
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.585	80832.117	81334.875	9.782	97.8	1.006	4941		1.02
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.585	77816.188	83380.609	10.417	104.2	1.072	6682		1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.585	73446.680	76995.367	10.191	101.9	1.048	1088		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.585	66126.813	70623.688	10.383	103.8	1.068	5402		1.08

Compound name: MPFDOA
Response Factor: 1.02862
RRF SD: 0.0383792, % Relative SD: 3.73112
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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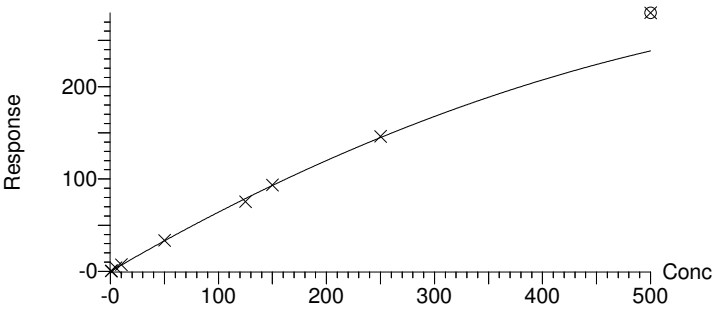
Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.0...	103376.742	3858.038	0.548	109.5	0.746	123	39	1.09
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.0...	103352.375	8870.826	1.260	126.0	0.858	278	40	0.93
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.0...	103349.367	40715.777	5.800	116.0	0.788	999	458	0.90
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.0...	96274.898	69474.719	10.654	106.5	0.722	2464	783	0.90
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.0...	95651.234	320247.500	50.655	101.3	0.670	7284	2277	0.97
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.0...	81334.875	612946.750	119.054	95.2	0.603	13464	3496	0.91
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.0...	83380.609	780708.688	151.037	100.7	0.624	17843	4869	0.94
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.0...	76995.367	1125203.250	252.665	101.1	0.585	24166	5063	0.97
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.0...	70623.688	1976668.125	730.913	146.2	0.560	38522	10063	0.97

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998963
Calibration curve: -0.000408704 * x^2 + 0.681656 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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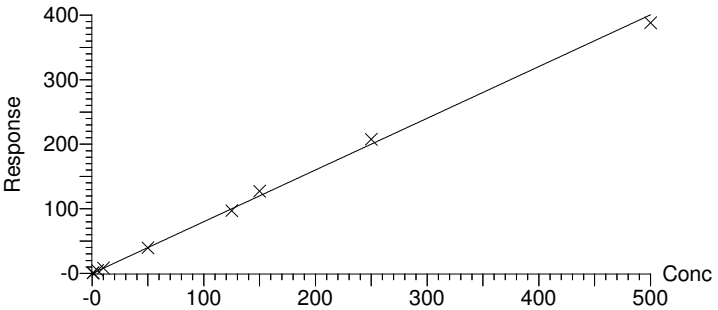
Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.3...	84304.094	3678.555	0.545	109.0	0.873	142	38	1.09
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.3...	83480.063	7615.251	1.139	113.9	0.912	284	23020	1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.3...	79194.773	35875.270	5.657	113.1	0.906	1214	612	1.00
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.3...	75865.328	63347.266	10.427	104.3	0.835	2110	173581	1.08
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.3...	73974.609	294391.063	49.694	99.4	0.796	7502	4351	1.12
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.3...	66841.781	649347.938	121.308	97.0	0.777	20638	2554	1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.3...	65493.922	832831.875	158.787	105.9	0.848	20542	10693	1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.3...	60380.074	1254325.750	259.404	103.8	0.831	29832	9847	1.07
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.3...	57111.117	2216106.000	484.540	96.9	0.776	46140	13707	1.12

Compound name: PFTA
Coefficient of Determination: R^2 = 0.998513
Calibration curve: 0.80083 * x
Response type: Internal Std (Ref 57), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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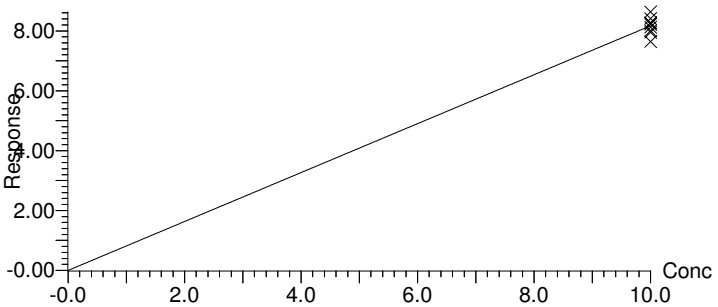
Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.3...	103829.906	84304.094	9.938	99.4	0.812	5616		1.07
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.3...	104230.492	83480.063	9.803	98.0	0.801	11763		1.11
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.3...	99527.453	79194.773	9.739	97.4	0.796	8009		1.09
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.3...	99233.398	75865.328	9.357	93.6	0.765	3451		1.10
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.3...	89579.898	73974.609	10.107	101.1	0.826	4377		1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.3...	80832.117	66841.781	10.121	101.2	0.827	1339		1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.3...	77816.188	65493.922	10.301	103.0	0.842	18247		1.08
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.3...	73446.680	60380.074	10.062	100.6	0.822	11843		1.06
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.3...	66126.813	57111.117	10.571	105.7	0.864	13106		1.10

Compound name: M2PFTEDA
Response Factor: 0.817023
RRF SD: 0.0284579, % Relative SD: 3.48313
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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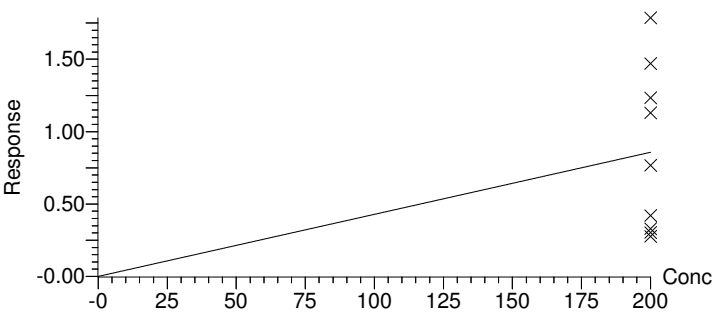
Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	7.426	117636.820	3251.888	64.481	32.2	0.001	973		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.436	114802.125	3469.083	70.486	35.2	0.002	70952		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	7.423	113627.328	3737.527	76.726	38.4	0.002	93		0.98
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	7.423	114891.016	4822.583	97.911	49.0	0.002	99973		0.97
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	7.417	107343.031	8242.578	179.113	89.6	0.004	5169		1.10
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	7.403	101103.344	11428.816	263.678	131.8	0.006	222317		1.18
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	7.403	97990.719	12096.718	287.953	144.0	0.006	228130		1.17
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	7.393	96048.547	14124.396	343.019	171.5	0.007	244179		1.27
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	7.371	87971.789	15712.972	416.633	208.3	0.009	984		1.69

Compound name: M3HFPO-DA
Response Factor: 0.00428708
RRF SD: 0.00283937, % Relative SD: 66.2309
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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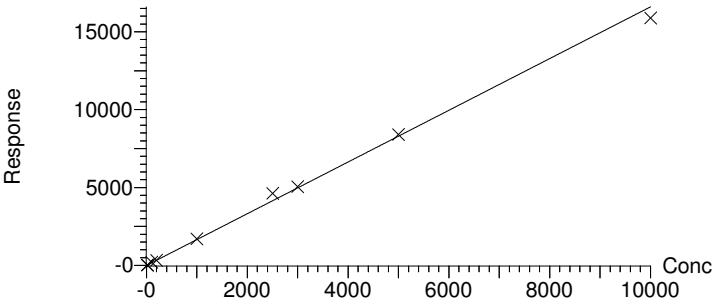
Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	7.427	3251.888	238.749	8.842	88.4	1.468	3	1148	0.96
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	7.444	3469.083	409.914	14.231	71.2	1.182	9322	19	0.72
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	7.424	3737.527	3728.507	120.149	120.1	1.995	2114	27395	1.04
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	7.421	4822.583	8056.205	201.196	100.6	1.671	1404	69032	1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	7.418	8242.578	69989.242	1022.673	102.3	1.698	1569559	571683	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	7.405	11428.816	264458.719	2786.926	111.5	1.851	45709	2048472	1.17
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	7.405	12096.718	306093.281	3047.579	101.6	1.687	23988	18756	1.20
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	7.391	14124.396	593297.063	5059.075	101.2	1.680	210742	3997418	1.44
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	7.372	15712.972	1248449.625	9569.328	95.7	1.589	77760	7046169	1.78

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.997230
Calibration curve: 1.66059 * x
Response type: Internal Std (Ref 58), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



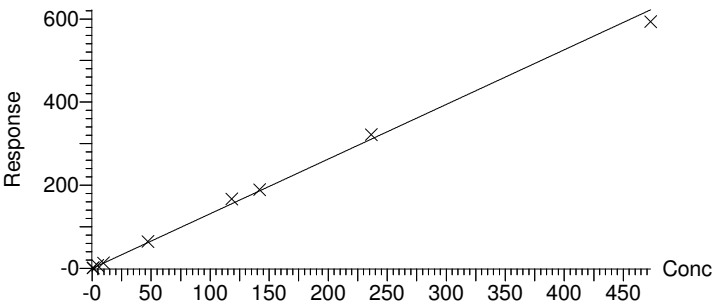
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	8.437	114742.953	6287.492	0.417	88.1	1.158	1172		1.00
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	8.447	115929.242	15121.663	0.992	104.9	1.379	2464		1.02
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	8.433	112562.227	76970.492	5.201	109.9	1.445	2596		1.06
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	8.433	109470.945	142938.625	9.932	105.0	1.380	10601		1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	8.440	106781.555	687811.313	48.997	103.6	1.362	19504		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	8.433	98244.656	1641867.125	127.123	107.5	1.413	55292		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	8.433	98053.172	1853079.125	143.757	101.3	1.332	72891		1.02
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	8.437	90653.047	2918572.000	244.897	103.5	1.361	74345		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	8.433	85048.031	5047635.000	451.460	95.4	1.255	47725		1.09

Compound name: ADONA
Coefficient of Determination: R^2 = 0.997914
Calibration curve: 1.31463 * x
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



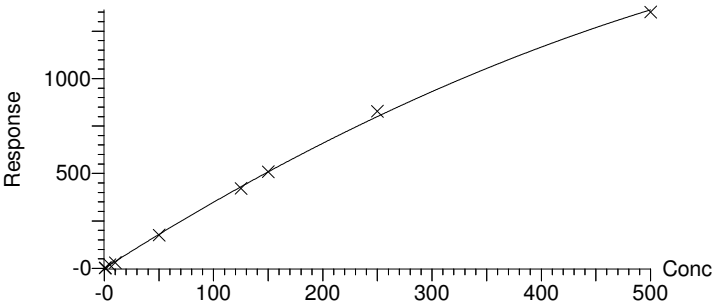
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.7...	18213.158	3366.715	0.503	100.6	3.697	505		1.05
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.7...	17328.859	6644.953	1.044	104.4	3.835	928		1.21
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.7...	16612.740	31167.045	5.116	102.3	3.752	3623		1.30
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.7...	19278.168	56900.813	8.061	80.6	2.952	6732		1.20
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.7...	15306.165	269633.094	49.164	98.3	3.523	29792		1.14
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.7...	13694.694	578244.250	122.629	98.1	3.378	52689		1.26
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.7...	13524.559	689195.813	150.297	100.2	3.397	73549		1.18
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.7...	12594.792	1043086.625	260.356	104.1	3.313	94086		1.22
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.7...	11692.363	1578940.250	493.304	98.7	2.701	166713		1.17

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999095
Calibration curve: -0.00190397 * x^2 + 3.6767 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



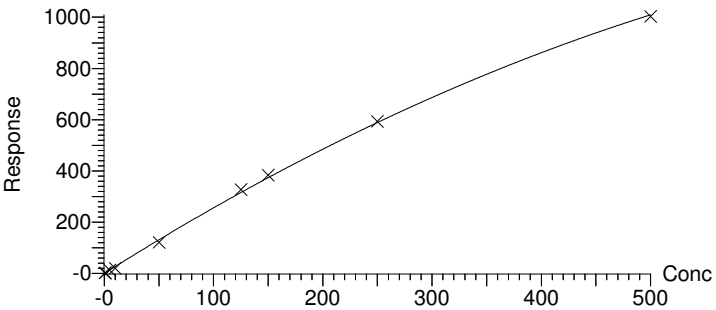
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.9...	18213.158	1986.248	0.405	81.0	2.181	233		0.97
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.9...	17328.859	4022.923	0.862	86.2	2.322	398		1.09
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.9...	16612.740	20393.104	4.568	91.4	2.455	1868		1.12
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.9...	19278.168	38946.125	7.529	75.3	2.020	3365		1.16
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.9...	15306.165	185708.469	46.110	92.2	2.427	18932		1.21
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.9...	13694.694	447829.469	129.854	103.9	2.616	34969		0.96
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.9...	13524.559	517897.969	154.059	102.7	2.553	44245		1.09
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.9...	12594.792	747346.625	252.158	100.9	2.374	68089		1.14
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.9...	11692.363	1172348.500	495.065	99.0	2.005	1863		1.27

Compound name: PFODA
Coefficient of Determination: R^2 = 0.998424
Calibration curve: -0.00134983 * x^2 + 2.69357 * x
Response type: Internal Std (Ref 63), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



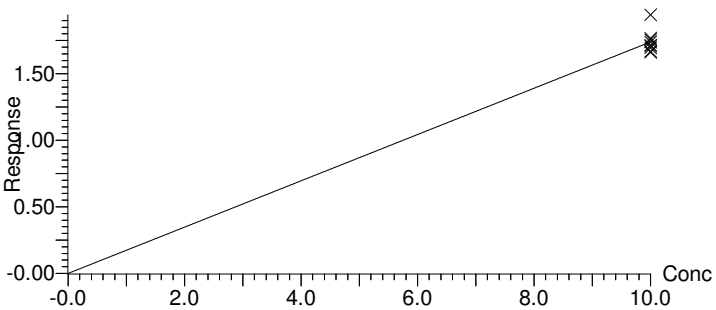
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: M2PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	12.7...	103829.906	18213.158	10.086	100.9	0.175	5928		1.19
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.7...	104230.492	17328.859	9.560	95.6	0.166	22620		1.19
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	12.7...	99527.453	16612.740	9.598	96.0	0.167	4836		1.15
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	12.7...	99233.398	19278.168	11.170	111.7	0.194	15355		1.24
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	12.7...	89579.898	15306.165	9.825	98.2	0.171	2825		1.12
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	12.7...	80832.117	13694.694	9.742	97.4	0.169	7300		1.26
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	12.7...	77816.188	13524.559	9.993	99.9	0.174	28		1.16
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	12.7...	73446.680	12594.792	9.860	98.6	0.171	7852		1.17
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	12.7...	66126.813	11692.363	10.167	101.7	0.177	2573		1.22

Compound name: M2PFHxDA
Response Factor: 0.173916
RRF SD: 0.00842697, % Relative SD: 4.84542
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



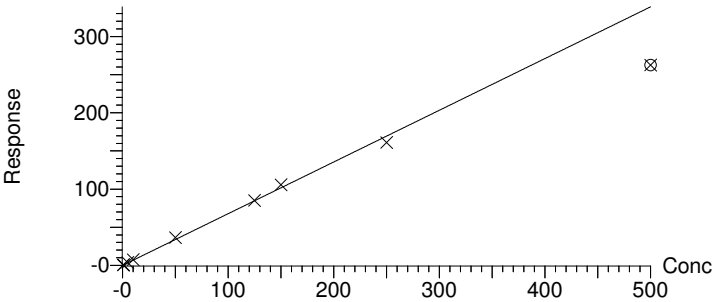
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: PFDoS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.997	7863.209	278.948	0.523	104.7	0.710	93	30	0.75
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	12.0...	8337.590	611.248	1.082	108.2	0.733	11908	94	0.73
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.993	7856.718	2929.418	5.501	110.0	0.746	52599	28916	0.85
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.993	7611.157	5766.223	11.178	111.8	0.758	103350	54427	0.80
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.997	7647.324	28014.129	54.048	108.1	0.733	402	416	0.78
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.989	6866.474	58473.602	125.644	100.5	0.681	3172	1156	0.85
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.989	6560.688	69331.211	155.917	103.9	0.705	8238	1521	0.87
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.989	5910.273	95180.961	237.606	95.0	0.644	9536	5126	0.87
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.989	5658.023	148644.109	387.613	77.5	0.525	9737	3816	0.88

Compound name: PFDoS
Coefficient of Determination: R^2 = 0.997593
Calibration curve: 0.677774 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



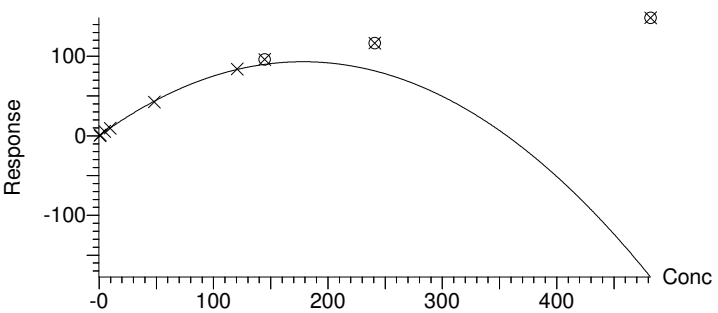
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: 10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.610	3535.170	161.659	0.438	90.9	0.949	4		0.93
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.615	3740.494	464.091	1.191	123.5	1.287	92		1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.602	3681.261	2106.882	5.561	115.4	1.187	40717		0.96
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.602	3572.389	3399.108	9.346	96.9	0.987	152		1.02
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.606	4282.424	18204.355	46.805	97.1	0.882	2155		0.96
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.602	4755.468	39855.957	121.752	101.0	0.696	749660		0.93
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.602	4958.818	47687.137			0.665	638		0.97
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.602	6317.642	73627.555			0.484	1060		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.602	8145.643	120840.695			0.308	46485		0.98

Compound name: 10:2FTS
Coefficient of Determination: R^2 = 0.997942
Calibration curve: -0.00293343 * x^2 + 1.04552 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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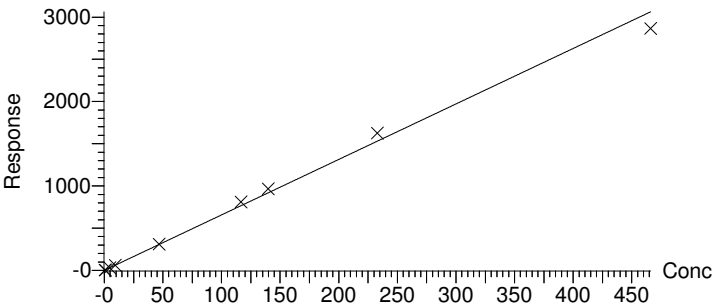
Compound name: 9CL-PF3ONS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	10.3...	7863.209	2189.338	0.424	90.9	5.975	105		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	10.3...	8337.590	4366.216	0.797	85.5	5.619	164		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	10.3...	7856.718	25231.883	4.887	104.9	6.892	1198		0.99
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	10.3...	7611.157	47425.988	9.481	101.7	6.686	2295		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	10.3...	7647.324	237445.078	47.245	101.4	6.663	14849		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	10.3...	6866.474	556615.500	123.346	105.9	6.958	24367		1.00
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	10.3...	6560.688	635029.375	147.281	105.4	6.924	29977		1.04
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	10.3...	5910.273	962077.688	247.688	106.3	6.986	41908		0.98
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	10.3...	5658.023	1621731.250	436.130	93.6	6.151	51120		1.03

Compound name: 9CL-PF3ONS
Coefficient of Determination: R^2 = 0.996306
Calibration curve: 6.57201 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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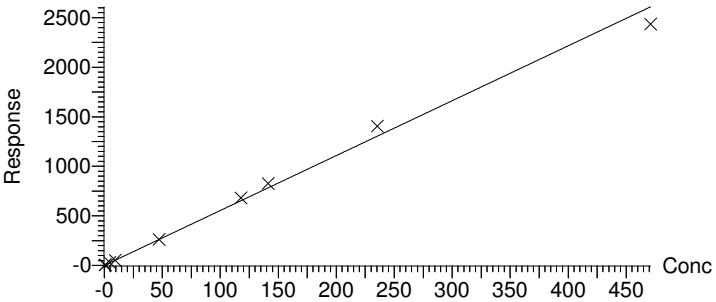
Compound name: 11CL-PFOUdS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.388	7863.209	1756.393	0.403	85.6	4.742	25984		1.00
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.393	8337.590	4417.228	0.956	101.5	5.624	65545		0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.383	7856.718	21642.189	4.972	105.6	5.848	2548		1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.383	7611.157	39059.797	9.263	98.3	5.448	8974		1.00
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.388	7647.324	200296.078	47.274	100.4	5.561	12642		0.99
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.383	6866.474	466932.875	122.738	104.2	5.775	9285		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.383	6560.688	542068.938	149.130	105.5	5.847	21115		1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.383	5910.273	830742.500	253.699	107.7	5.969	41063		1.01
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.388	5658.023	1378541.500	439.759	93.4	5.173	33235		0.96

Compound name: 11CL-PFOUdS
Coefficient of Determination: R^2 = 0.995887
Calibration curve: 5.5404 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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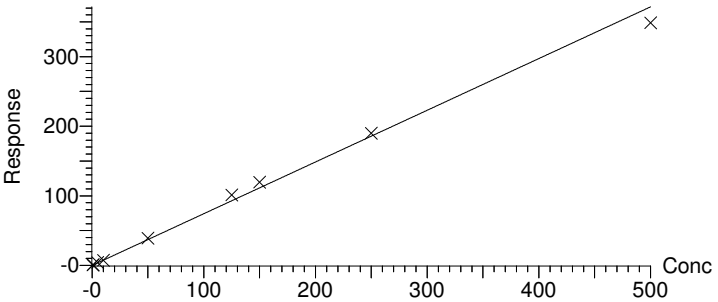
Compound name: NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.628	10818.715	384.162	0.478	95.6	0.710	125	68	0.95
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.624	10918.389	820.677	1.011	101.1	0.752	195	9328	1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.620	10805.029	4555.991	5.673	113.5	0.843	1070	53071	1.03
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.620	11452.094	8668.560	10.184	101.8	0.757	527	1214	1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.624	11659.144	45476.523	52.480	105.0	0.780	2752	2221	1.05
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.620	10937.316	110688.570	136.165	108.9	0.810	4013	2943	1.04
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.624	10578.706	126611.172	161.032	107.4	0.798	3996	2301	0.99
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.624	10789.468	204880.891	255.491	102.2	0.760	6232	5461	1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.628	10956.525	381907.094	468.985	93.8	0.697	6666	9403	0.99

Compound name: NMeFOSA
Coefficient of Determination: R^2 = 0.996194
Calibration curve: 0.743235 * x
Response type: Internal Std (Ref 69), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



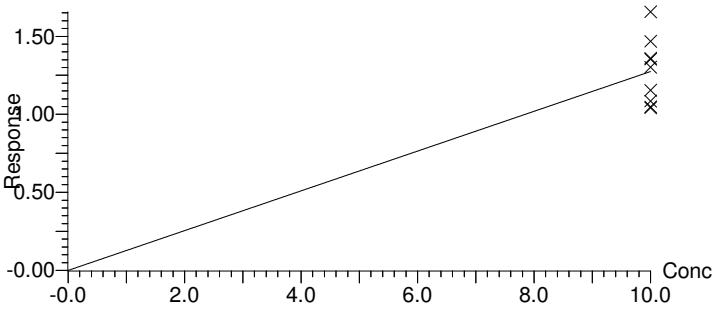
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d3-NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.616	103829.906	10818.715	8.176	81.8	0.104	981		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.620	104230.492	10918.389	8.220	82.2	0.105	418		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.612	99527.453	10805.029	8.519	85.2	0.109	789		1.08
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.616	99233.398	11452.094	9.056	90.6	0.115	1426		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.620	89579.898	11659.144	10.213	102.1	0.130	1008		0.96
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.616	80832.117	10937.316	10.618	106.2	0.135	479		0.98
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.616	77816.188	10578.706	10.668	106.7	0.136	2667		0.98
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.616	73446.680	10789.468	11.528	115.3	0.147	813		1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.620	66126.813	10956.525	13.002	130.0	0.166	989		1.02

Compound name: d3-NMeFOSA
Response Factor: 0.127435
RRF SD: 0.0210344, % Relative SD: 16.5059
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



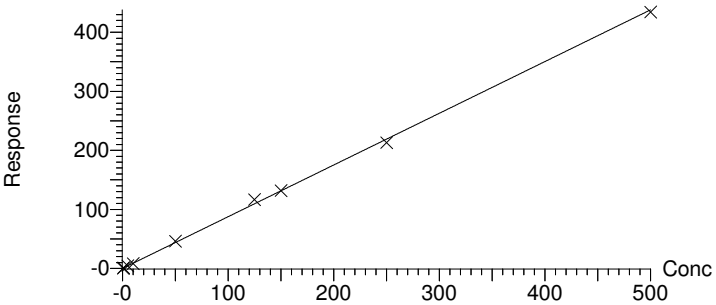
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.916	11992.311	291.889	0.278	55.6	0.487	35	8	1.23
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.924	10513.078	950.658	1.032	103.2	0.904	16167	2464	1.00
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.920	10840.465	4897.970	5.157	103.1	0.904	826	162	1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.920	11690.228	9820.464	9.587	95.9	0.840	1432	25080	1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.924	10655.923	49116.805	52.606	105.2	0.922	2351	562	1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.920	10271.625	119958.141	133.286	106.6	0.934	4025	1054	1.01
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.920	10793.446	142438.000	150.612	100.4	0.880	5314	4771	1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.920	10700.851	228133.797	243.312	97.3	0.853	6235	1669	1.05
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.924	9807.835	425931.281	495.631	99.1	0.869	10705	3724	1.00

Compound name: NEtFOSA
Coefficient of Determination: R^2 = 0.999041
Calibration curve: 0.876209 * x
Response type: Internal Std (Ref 71), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



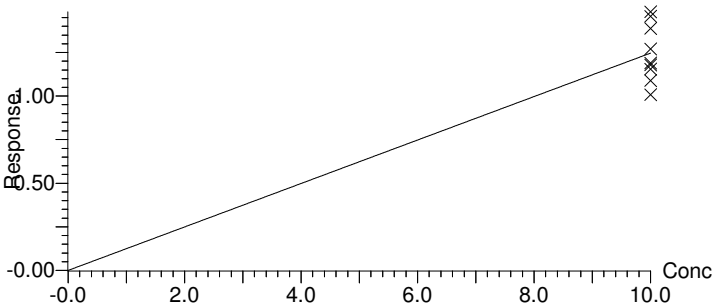
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d5-NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.912	103829.906	11992.311	9.266	92.7	0.115	896		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.916	104230.492	10513.078	8.092	80.9	0.101	343		1.01
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.912	99527.453	10840.465	8.738	87.4	0.109	567		0.95
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.912	99233.398	11690.228	9.451	94.5	0.118	1110		1.01
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.912	89579.898	10655.923	9.543	95.4	0.119	1698		1.02
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.908	80832.117	10271.625	10.195	101.9	0.127	780		1.05
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.908	77816.188	10793.446	11.128	111.3	0.139	283		1.07
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.912	73446.680	10700.851	11.689	116.9	0.146	396		0.97
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.912	66126.813	9807.835	11.899	119.0	0.148	2196		1.03

Compound name: d5-NEtFOSA
Response Factor: 0.124648
RRF SD: 0.0165181, % Relative SD: 13.2517
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



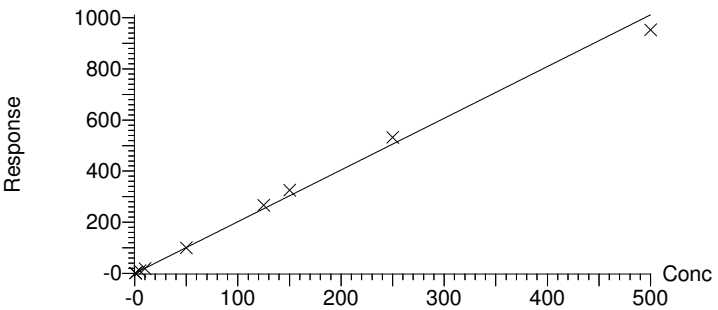
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.627	6181.065	439.839	0.352	70.4	1.423	42		1.03
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.631	5601.364	847.873	0.748	74.8	1.514	70		0.99
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.623	5583.996	5940.177	5.259	105.2	2.128	542		1.02
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.623	5732.216	10782.405	9.298	93.0	1.881	746		1.03
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.627	5433.837	54087.008	49.204	98.4	1.991	2768		1.01
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.623	4843.435	128959.344	131.619	105.3	2.130	2932		1.02
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.623	4724.134	153741.500	160.875	107.2	2.170	6049		1.05
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.627	4616.492	245769.922	263.169	105.3	2.129	9707		1.00
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.631	4357.240	415137.313	470.976	94.2	1.906	5246		0.97

Compound name: NMeFOSE
Coefficient of Determination: R^2 = 0.996553
Calibration curve: 2.02293 * x
Response type: Internal Std (Ref 73), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



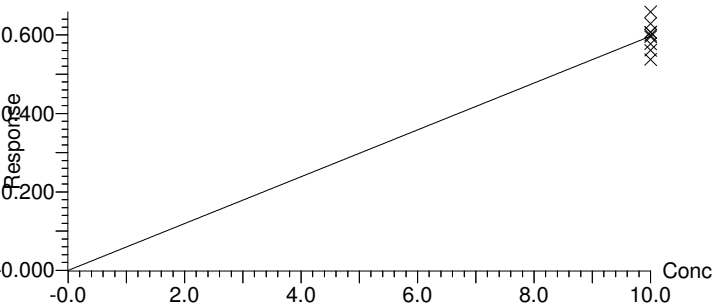
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d7-NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.610	103829.906	6181.065	9.974	99.7	0.060	246		1.06
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.610	104230.492	5601.364	9.004	90.0	0.054	196		1.07
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.606	99527.453	5583.996	9.400	94.0	0.056	229		1.06
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.606	99233.398	5732.216	9.678	96.8	0.058	271		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.610	89579.898	5433.837	10.163	101.6	0.061	271		1.06
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.606	80832.117	4843.435	10.039	100.4	0.060	248		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.606	77816.188	4724.134	10.171	101.7	0.061	201		1.03
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.610	73446.680	4616.492	10.531	105.3	0.063	294		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.610	66126.813	4357.240	11.040	110.4	0.066	262		1.07

Compound name: d7-NMeFOSE
Response Factor: 0.0596862
RRF SD: 0.00357941, % Relative SD: 5.99705
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



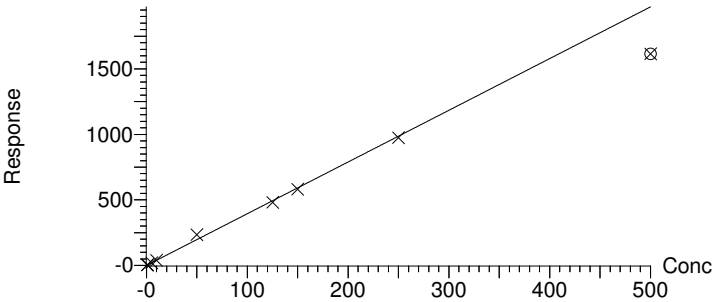
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.913	3594.417	567.950	0.400	80.1	3.160	9582		0.99
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.913	3264.972	1238.596	0.961	96.1	3.794	19982		1.04
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.909	3288.860	6476.007	4.988	99.8	3.938	750		1.01
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.909	3120.817	12372.700	10.043	100.4	3.965	783		1.04
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.913	2782.245	65148.242	59.318	118.6	4.683	2943		1.00
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.909	3094.809	148854.578	121.844	97.5	3.848	4737		0.99
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.909	3077.430	178591.047	147.011	98.0	3.869	6366		1.00
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.909	2927.529	285368.000	246.934	98.8	3.899	5042		1.03
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.909	3114.293	502556.594	408.793	81.8	3.227	14003		1.06

Compound name: NEtFOSE
Coefficient of Determination: R^2 = 0.996634
Calibration curve: 3.9475 * x
Response type: Internal Std (Ref 75), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



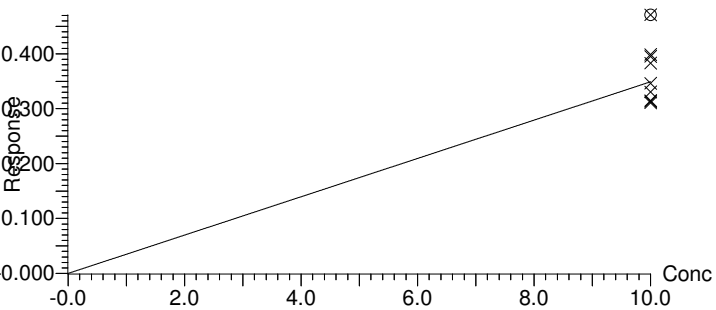
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:47:36 Eastern Standard Time

Compound name: d9-NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I13434	IA2-537STD0.5	18-Nov-19	10:24:43	11.893	103829.906	3594.417	9.920	99.2	0.035	301		1.04
2	I13435	IA2-537STD1.0	18-Nov-19	10:53:49	11.897	104230.492	3264.972	8.976	89.8	0.031	178		0.98
3	I13436	IA2-537STD5.0	18-Nov-19	11:10:20	11.889	99527.453	3288.860	9.469	94.7	0.033	211		1.07
4	I13437	IA2-537STD10.0	18-Nov-19	11:26:51	11.893	99233.398	3120.817	9.012	90.1	0.031	173		0.98
5	I13438	IA2-537STD50.0	18-Nov-19	11:43:24	11.893	89579.898	2782.245	8.900	89.0	0.031	135		1.03
6	I13439	IA2-537STD125	18-Nov-19	12:00:10	11.889	80832.117	3094.809	10.971	109.7	0.038	197		1.03
7	I13440	IA2-537STD150	18-Nov-19	12:16:43	11.893	77816.188	3077.430	11.332	113.3	0.040	198		0.95
8	I13441	IA2-537STD250	18-Nov-19	12:33:16	11.889	73446.680	2927.529	11.421	114.2	0.040	137		1.02
9	I13442	IA2-537STD500	18-Nov-19	12:49:53	11.893	66126.813	3114.293	13.495	135.0	0.047	162		1.01

Compound name: d9-NEtFOSE
Response Factor: 0.0348987
RRF SD: 0.00379155, % Relative SD: 10.8645
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:48 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD0.5
Name: I13434
Date: 18-Nov-2019
Time: 10:24:43
Description: WG1310082,,537_190904_1
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	2022		0.462		na	92.4
2	M3PFBA	INT STD	2.20	215.926 > 172.122	48557		10.479		na	104.8
3	MPFBA	INT STD	2.20	216.926 > 172.137	52425		9.921		na	99.2
4	PFPeA	2706-90-3	5.10	262.926 > 219.002	3492		0.475		na	95.0
5	M5PFPEA	INT STD	5.10	267.989 > 223.081	76105		10.154		na	101.5
6	PFBS	375-73-5	5.75	298.926 > 79.923	655		0.430	2.16	NO	97.1
7	M3PFBS	INT STD	5.75	301.989 > 80.254	10366		9.717		na	97.2
8	4:2FTS	757124-72-4	6.92	326.926 > 306.957	265		0.475	1.86	NO	101.7
9	M2-4:2FTS	INT STD	6.92	329.117 > 309.079	5032		7.265		na	72.7
10	PFHxA	307-24-4	7.00	312.989 > 269.028	4783		0.602	21.03	NO	120.4
11	M5PFHxA	INT STD	7.00	317.989 > 273.045	86318		9.586		na	95.9
12	PFPeS	2706-91-4	7.31	348.926 > 80.251	447		0.423	1.69	NO	90.1
13	PFHpA	375-85-9	8.26	362.926 > 319.014	5195		0.489	6.15	NO	97.8
14	M4PFHpA	INT STD	8.26	366.926 > 321.979	117836		9.824		na	98.2
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	11	M5	0.015		YES	17.8
16	L-PFHxS	355-46-4	8.42	398.926 > 80.295	259		0.328	1.26	NO	88.7
17	PFHxS	355-46-4		398.926 > 80.295	270		0.343		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	6305		10.241		na	102.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	5268		0.500	12.88	NO	100.0
21	PFOA	335-67-1		412.989 > 368.9	5268		0.500		na	
22	M8PFOA	INT STD	9.20	420.989 > 375.979	114743		9.968		na	99.7
23	M2PFOA	INT STD	9.19	415.032 > 369.968	117637		11.128		na	111.3
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	137		0.321		YES	67.6
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	5244		7.748		na	77.5
26	PFHpS	375-92-8	9.29	448.926 > 80.257	144		0.279	0.56	NO	58.7
27	PFNA	375-95-1	9.95	462.989 > 418.931	4411		0.471	5.33	NO	94.1
28	M9PFNA	INT STD	9.95	472.053 > 426.947	114402		10.101		na	101.0
29	br-PFOS	1763-23-1	9.72	498.989 > 80.294	63	M5	0.062		YES	61.5
30	L-PFOS	1763-23-1	10.00	498.989 > 80.294	210		0.272	0.98	NO	74.6
31	PFOS	1763-23-1		498.989 > 80.294	273		0.334		na	
32	M4PFOS	INT STD	10.00	503.032 > 80.306	7621		10.912		na	109.1
33	M8PFOS	INT STD	9.99	507.053 > 80.294	7863		10.056		na	100.6
34	PFDA	335-76-2	10.57	513.053 > 468.906	4686		0.518	7.93	NO	103.6
35	M2PFDA	INT STD	10.58	515.053 > 469.934	103830		11.760		na	117.6
36	M6PFDA	INT STD	10.57	519.053 > 473.931	105487		9.830		na	98.3
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	207		0.538		na	112.0
38	M2-8:2FTS	INT STD	10.57	529.053 > 508.945	3535		8.903		na	89.0
39	PFNS	68259-12-1	10.60	548.989 > 80.249	306		0.419	0.90	NO	87.2

all concentration units in (ng/mL)

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ID: IA2-537STD0.5
Name: I13434
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Time: 10:24:43
Description: WG1310082,,537_190904_1
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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.96	573.096 > 418.987	9576		7.836		na	78.4
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	325		0.364	2.10	NO	72.7
43	NMeFOSAA	2355-31-9		570.053 > 418.917	325		0.364		na	
44	PFUnA	2058-94-8	11.12	562.989 > 518.903	4612		0.473	10.10	NO	94.6
45	M7-PFUDA	INT STD	11.12	570.053 > 524.923	101992		10.713		na	107.1
46	PFDS	335-77-3	11.12	598.926 > 80.314	243		0.464	1.04	NO	96.2
47	FOSA	754-91-6	11.01	497.989 > 78.245	942		0.386		YES	77.3
48	M8FOSA	INT STD	11.01	506.053 > 78.286	22949		9.045		na	90.5
49	d5-NEtFOSAA	INT STD	11.25	589.117 > 418.929	8483		7.858		na	78.6
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.26	583.989 > 418.927	426		0.532	3.84	NO	106.4
52	NEtFOSAA	2991-50-6		583.989 > 418.927	426		0.532		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	4842		0.553	17.72	NO	110.6
54	MPFDOA	INT STD	11.59	614.989 > 569.92	103377		9.679		na	96.8
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	3858		0.548	9.96	NO	109.5
56	PFTA	376-06-7	12.36	713.053 > 668.976	3679		0.545	13.27	NO	109.0
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	84304		9.938		na	99.4
58	M3HFPO-DA	INT STD	7.43	331.989 > 286.995	3252		64.481		na	32.2
59	HFPO-DA	13252-13-6	7.43	284.819 > 169.094	239		8.842	5.42	NO	88.4
60	ADONA	958445-44-8	8.44	376.926 > 251.005	6287		0.417		na	88.1
61	PFHxDA		12.79	813.053 > 769.005	3367		0.503		na	100.6
62	PFODA		12.99	912.989 > 869.032	1986		0.405		na	81.0
63	M2PFHxDA		12.78	815.372 > 770.158	18213		10.086		na	100.9
64	PFDoS		12.00	698.649 > 79.853	279		0.523	3.32	NO	104.7
65	10:2FTS		11.61	626.862 > 606.896	162	M2	0.438		na	90.9
66	9CL-PF3ONS		10.34	530.862 > 350.843	2189		0.424		na	90.9
67	11CL-PFOUdS		11.39	630.862 > 450.854	1756		0.403		na	85.6
68	NMeFOSA		11.63	511.804 > 168.906	384		0.478	1.58	NO	95.6
69	d3-NMeFOSA		11.62	514.84 > 168.917	10819		8.176		na	81.8
70	NEtFOSA		11.92	525.84 > 168.92	292		0.278	5.11	NO	55.6
71	d5-NEtFOSA		11.91	530.904 > 168.919	11992		9.266		na	92.7
72	NMeFOSE		11.63	615.862 > 58.9	440		0.352		na	70.4
73	d7-NMeFOSE		11.61	622.84 > 58.964	6181		9.974		na	99.7
74	NEtFOSE		11.91	629.862 > 58.899	568		0.400		na	80.1
75	d9-NEtFOSE		11.89	638.734 > 58.964	3594		9.920		na	99.2

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Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

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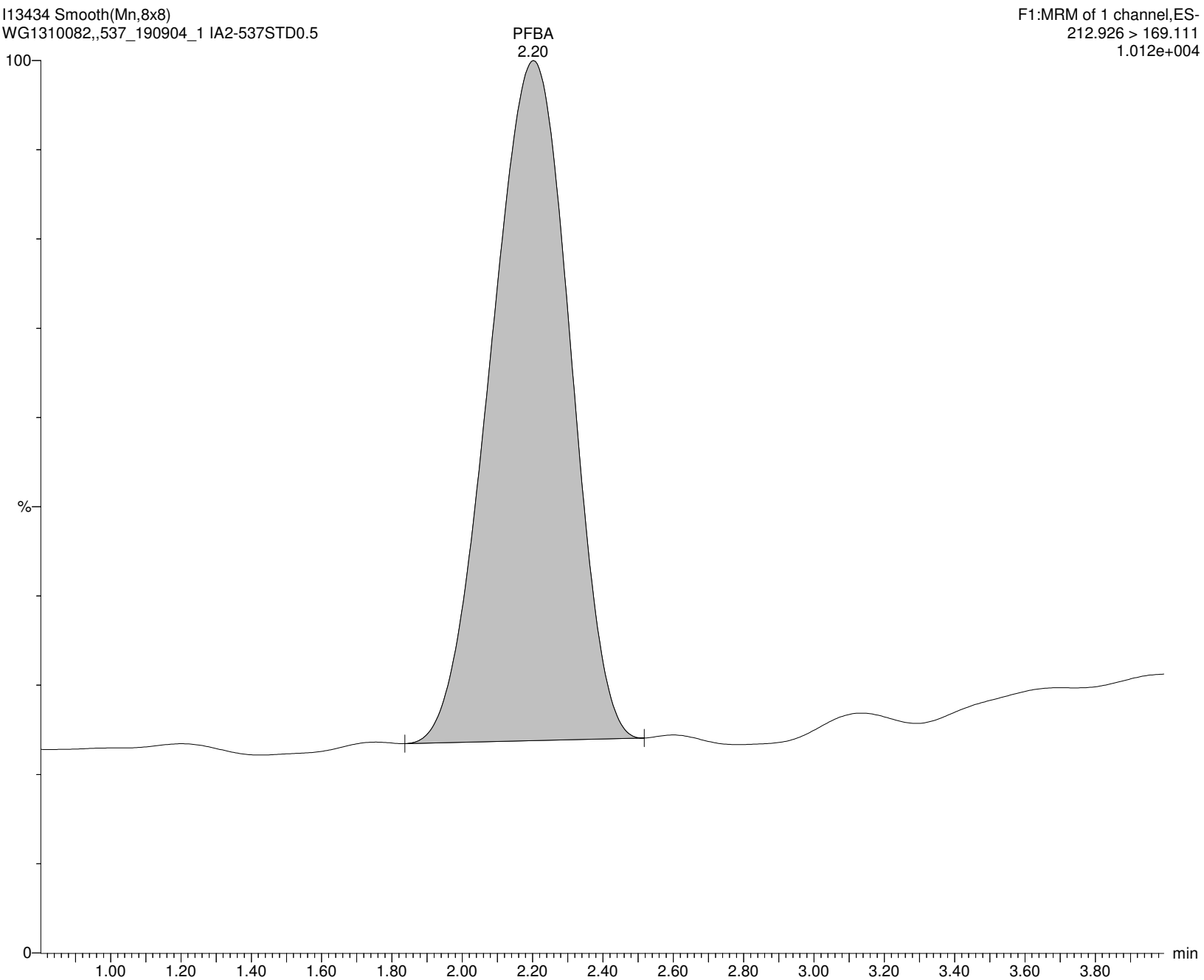

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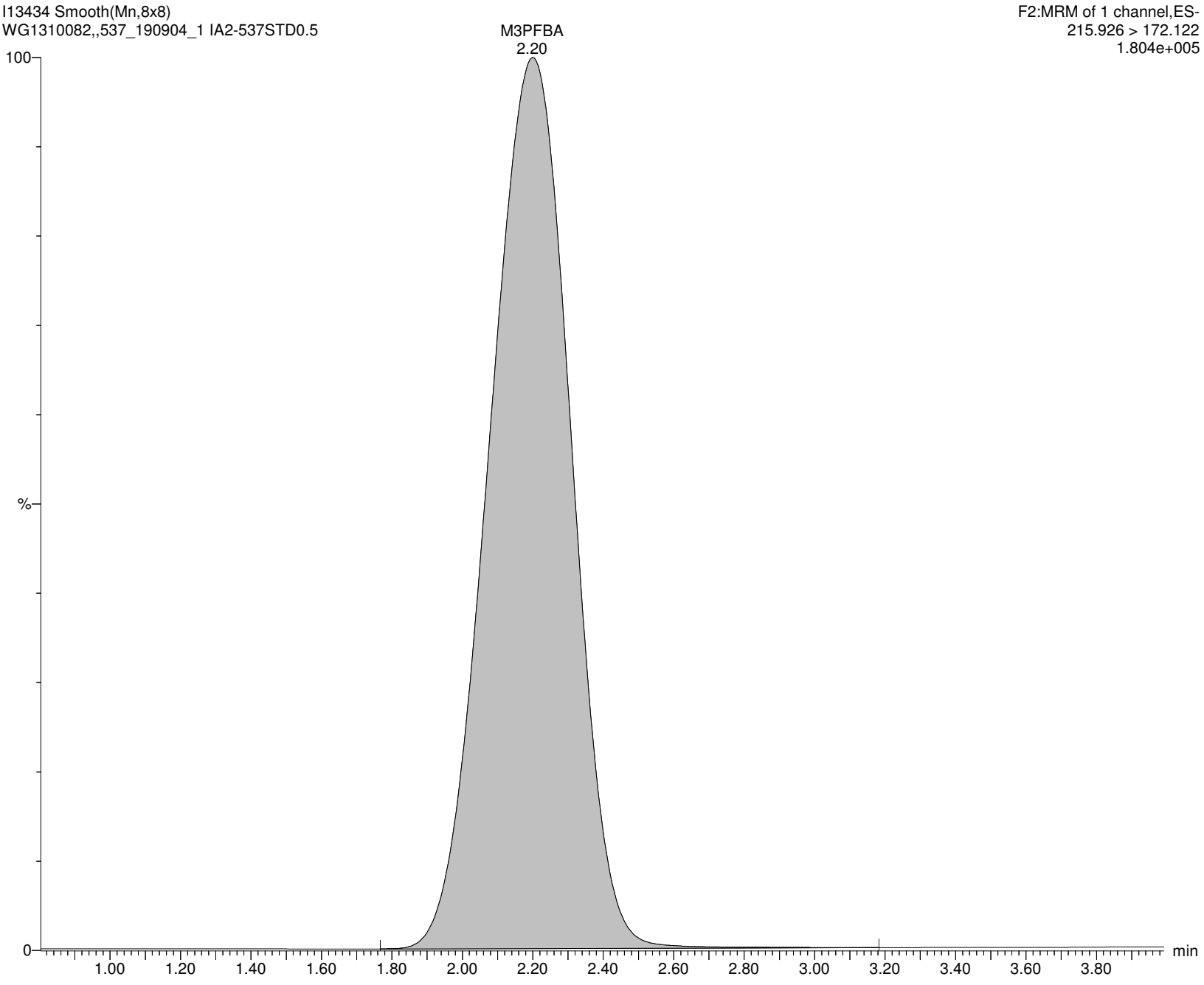

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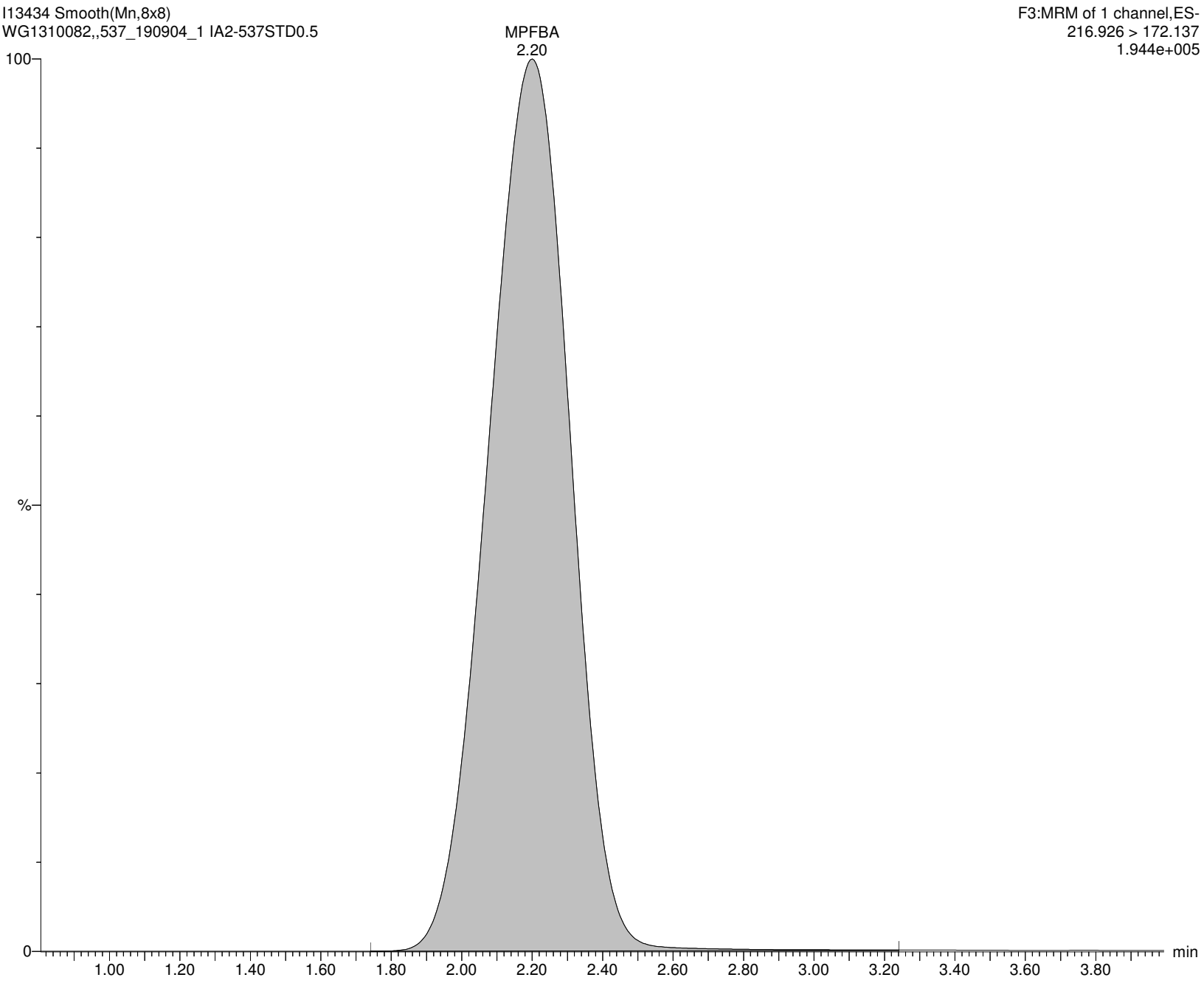

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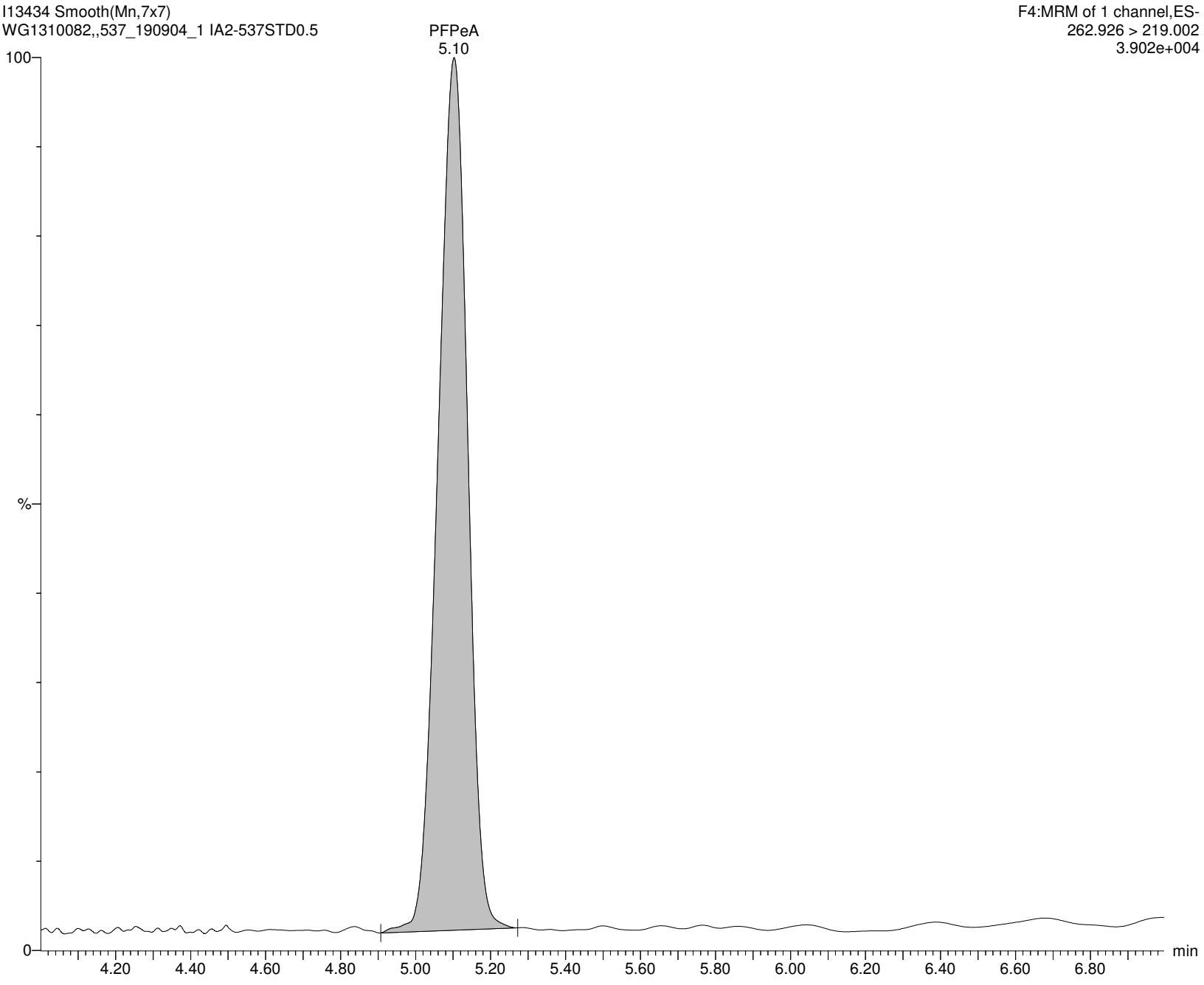

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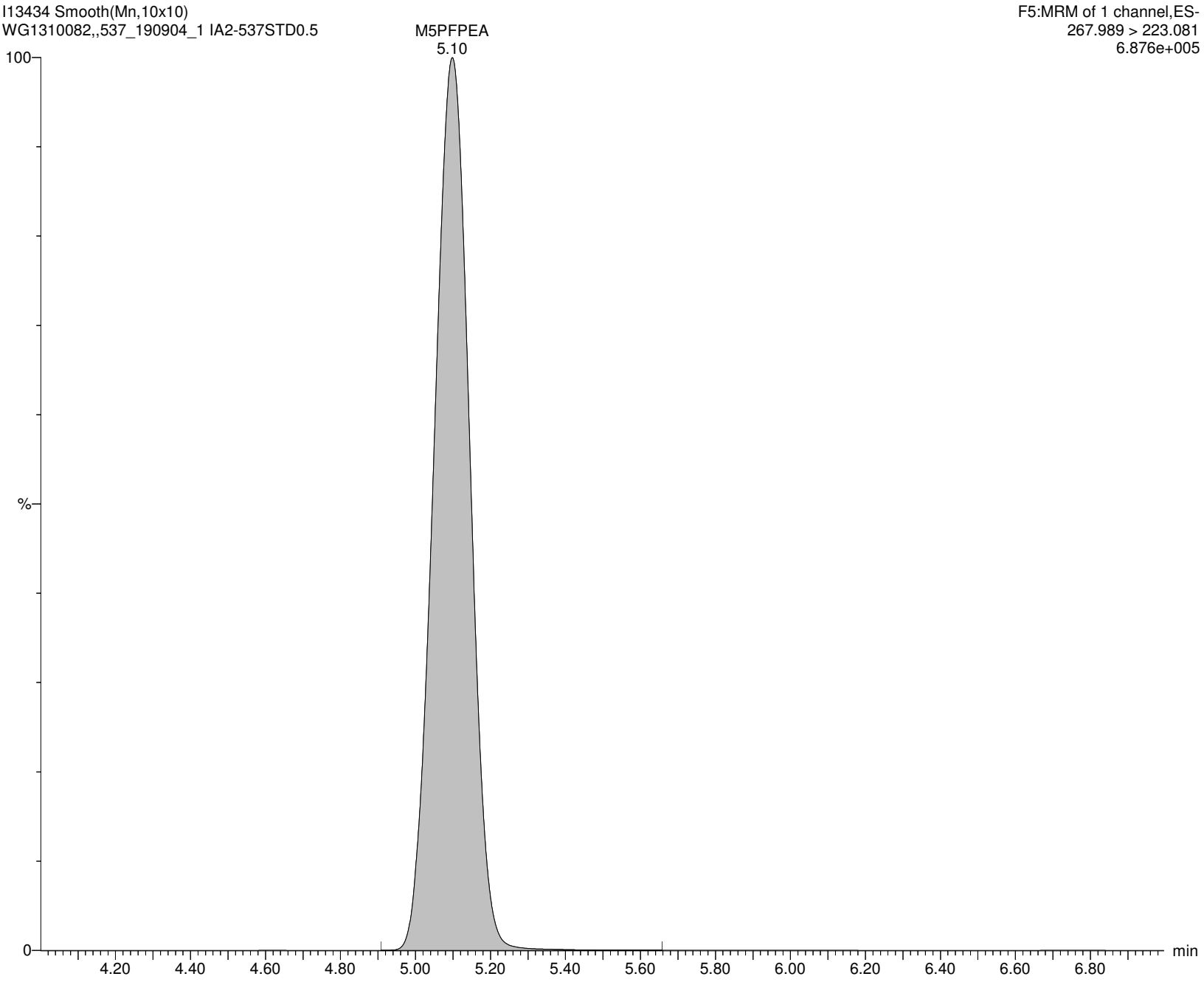

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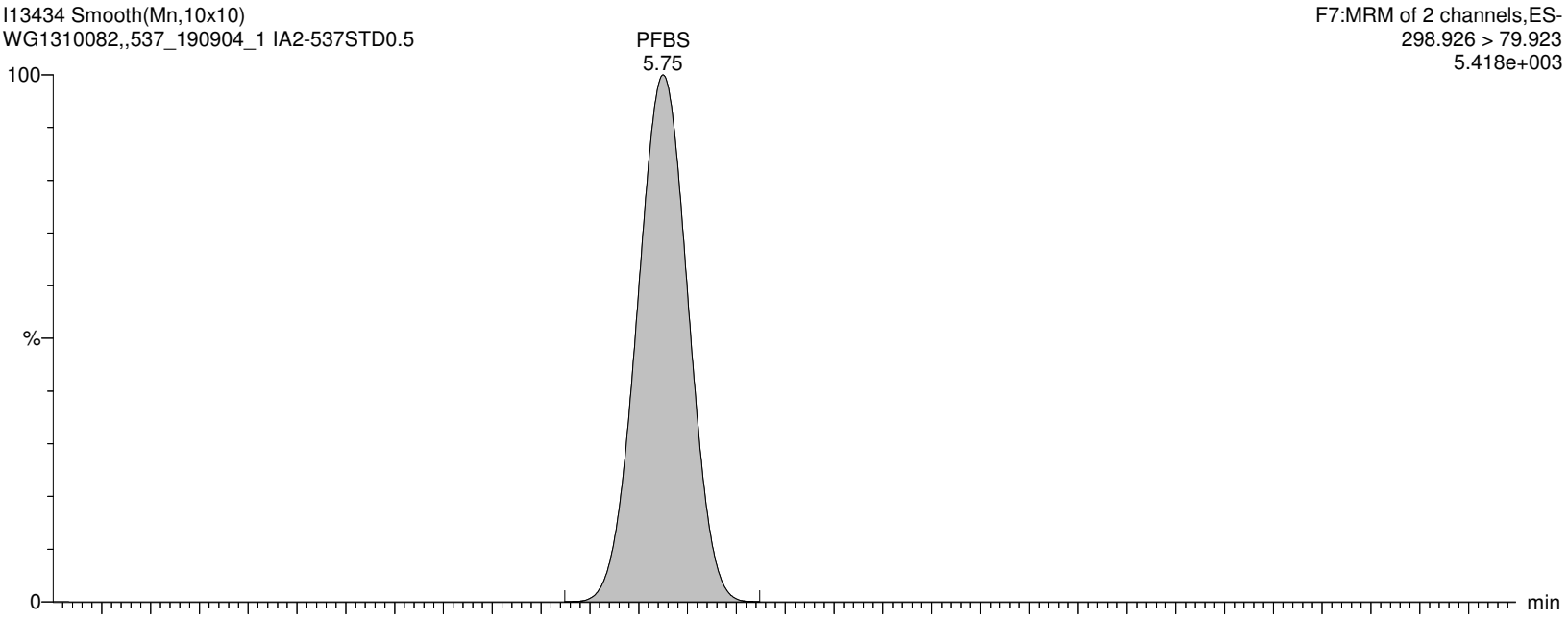

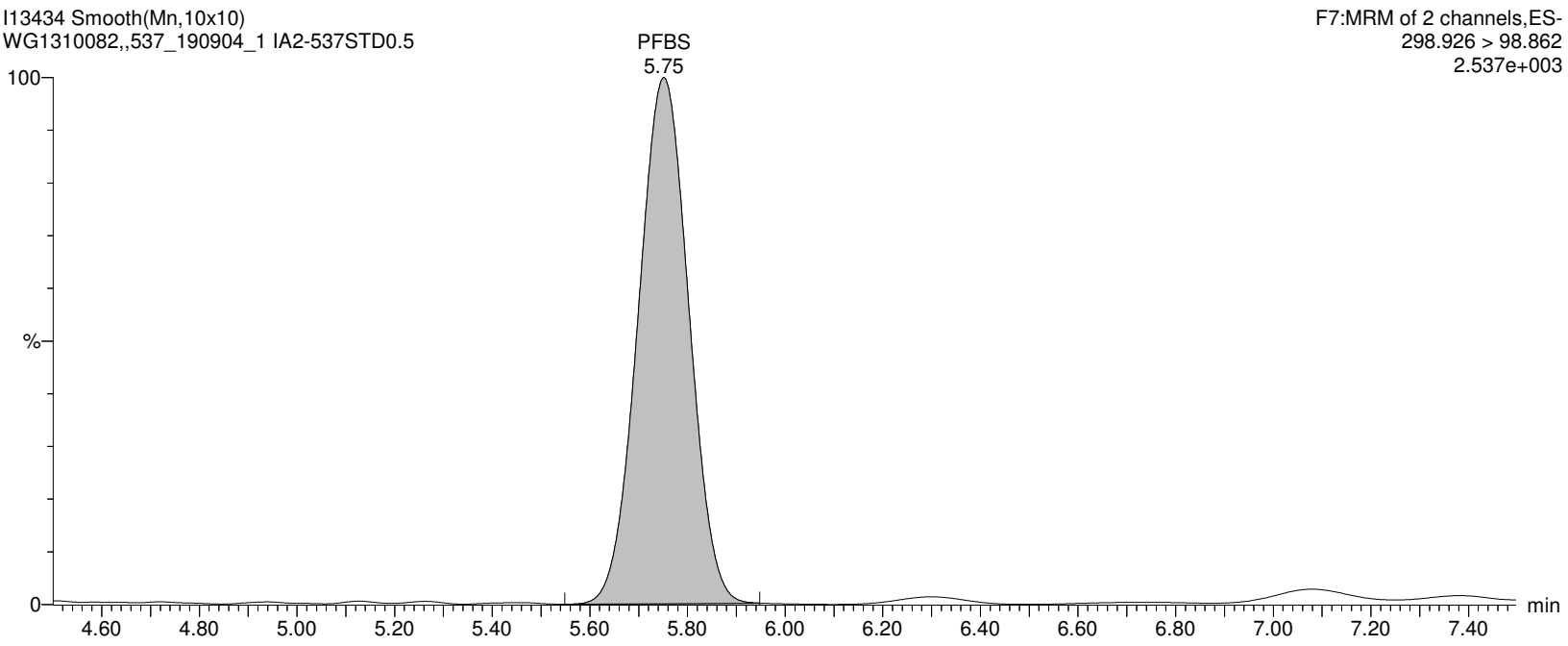

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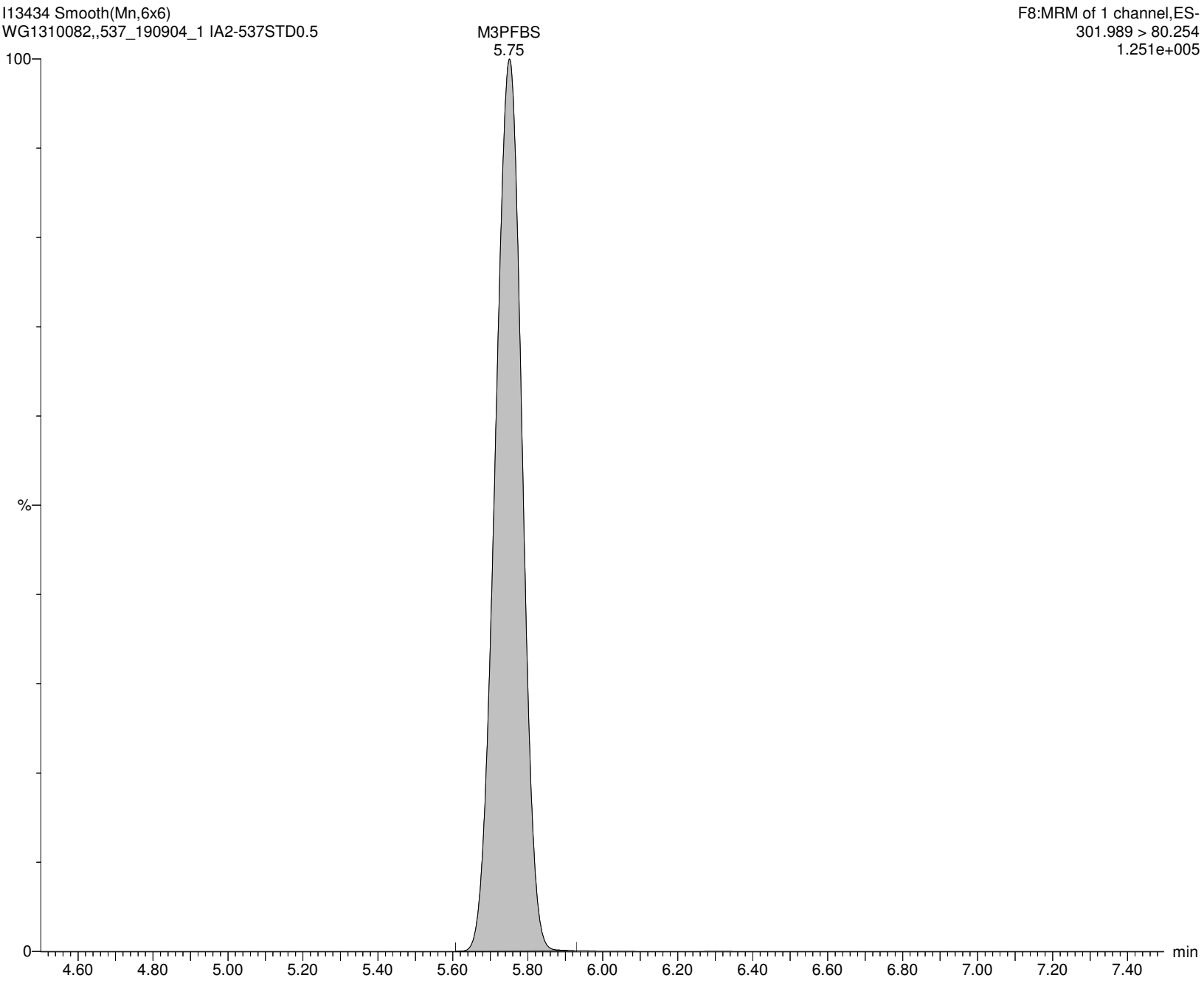

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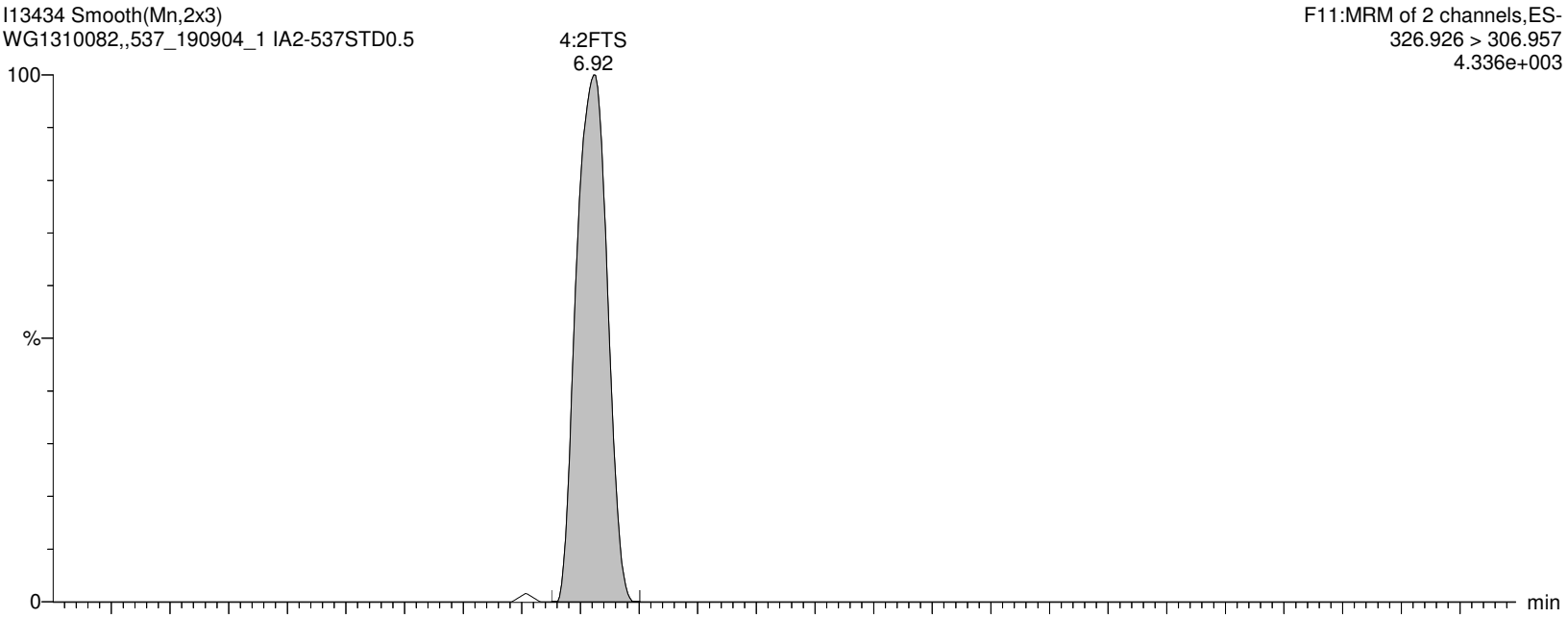
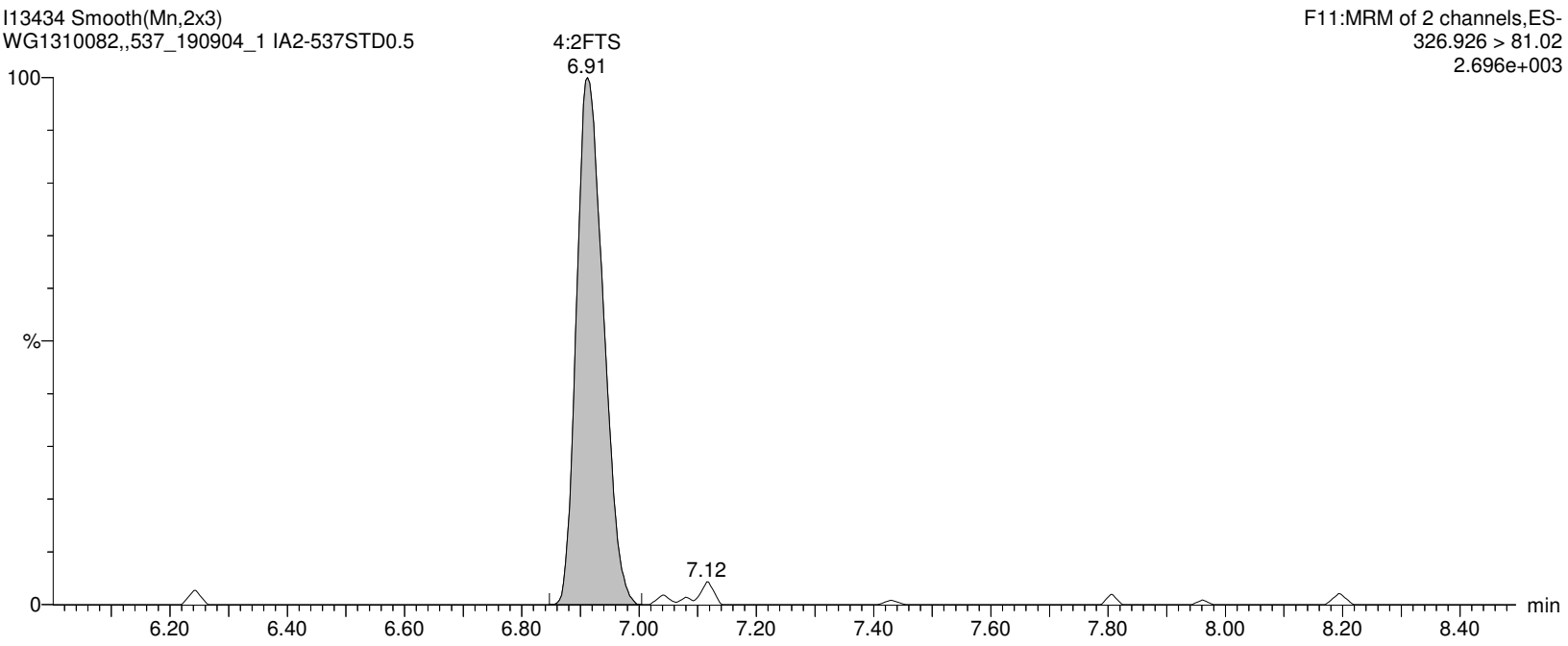
4:2FTS





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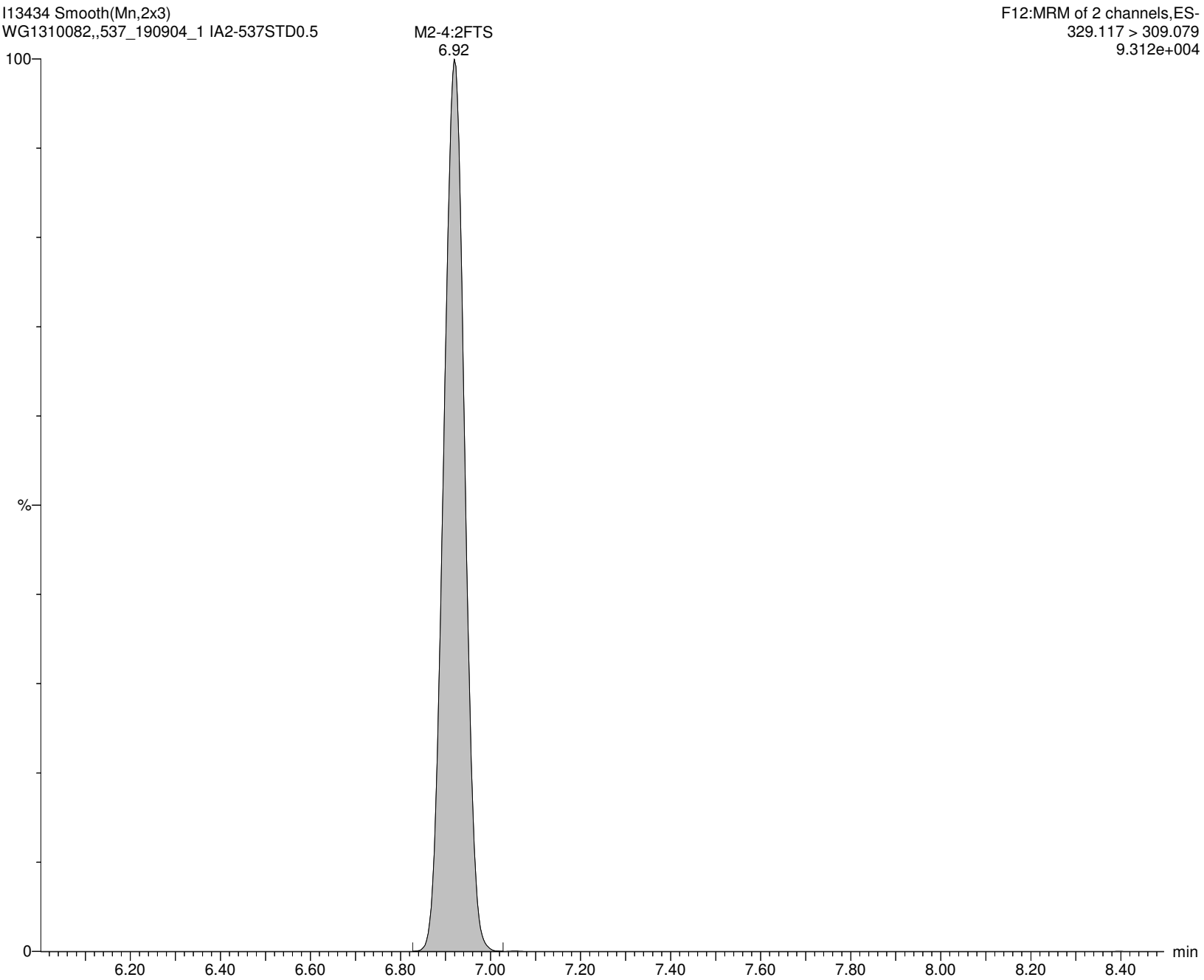

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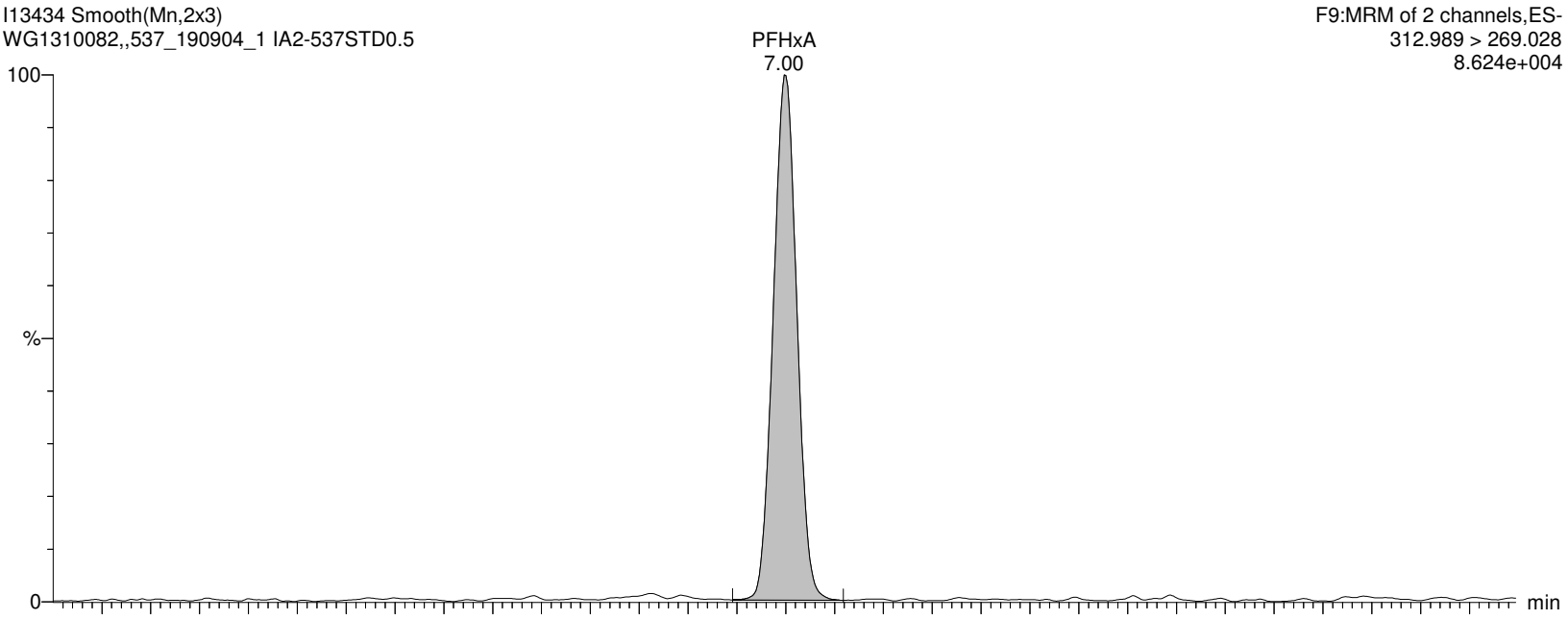

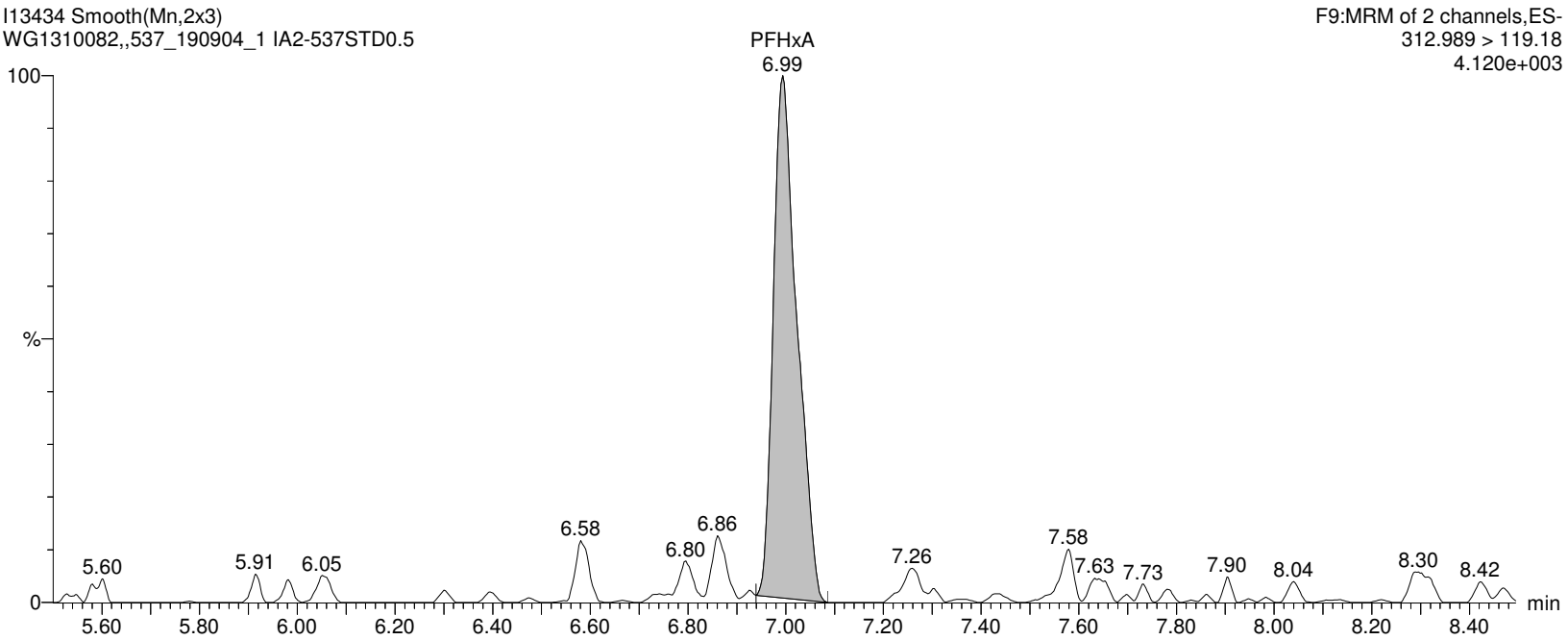

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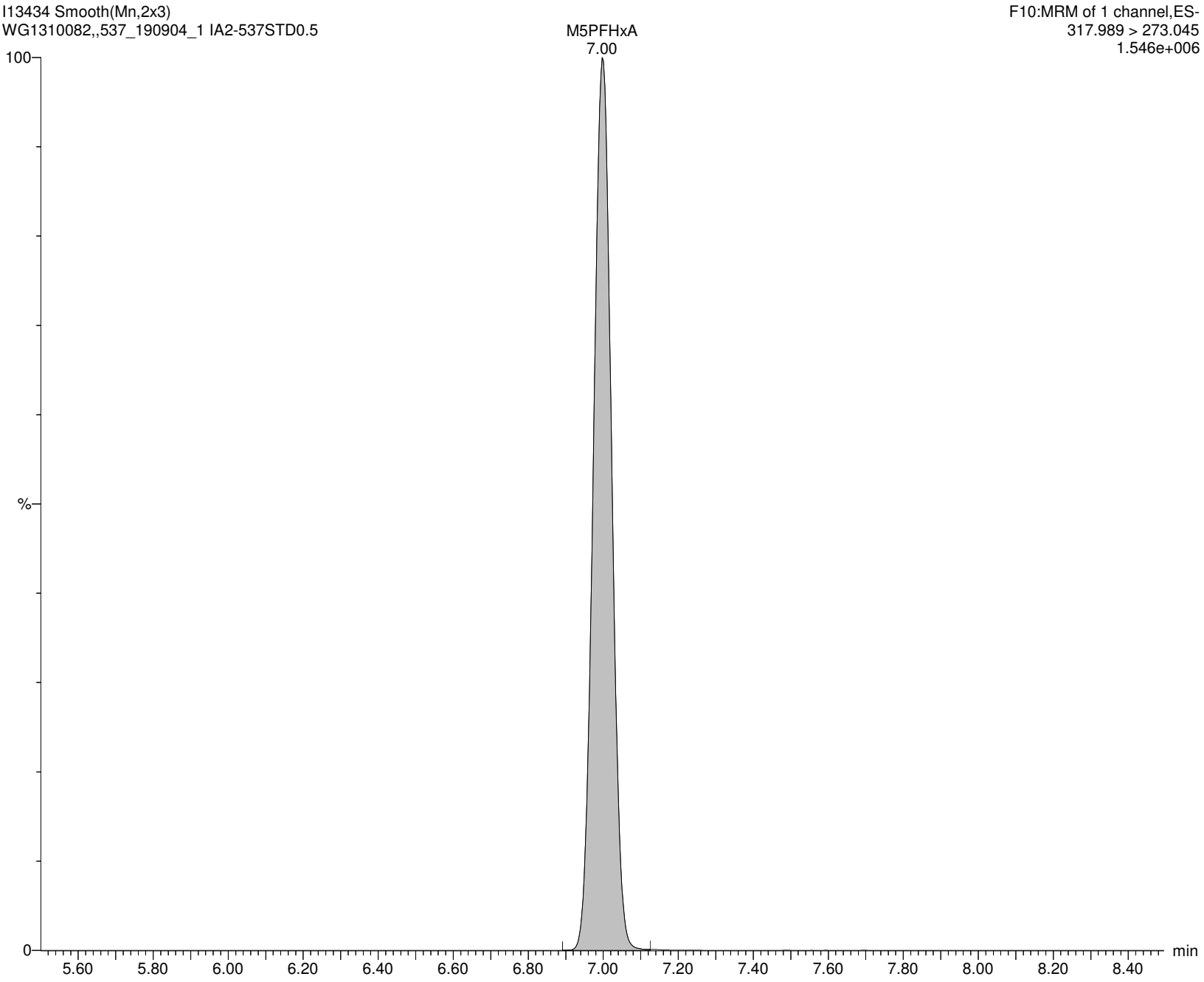

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:48 Eastern Standard Time

Name: I13434
ID: IA2-537STD0.5
Date: 18-Nov-2019
Time: 10:24:43
Description: WG1310082,,537_190904_1
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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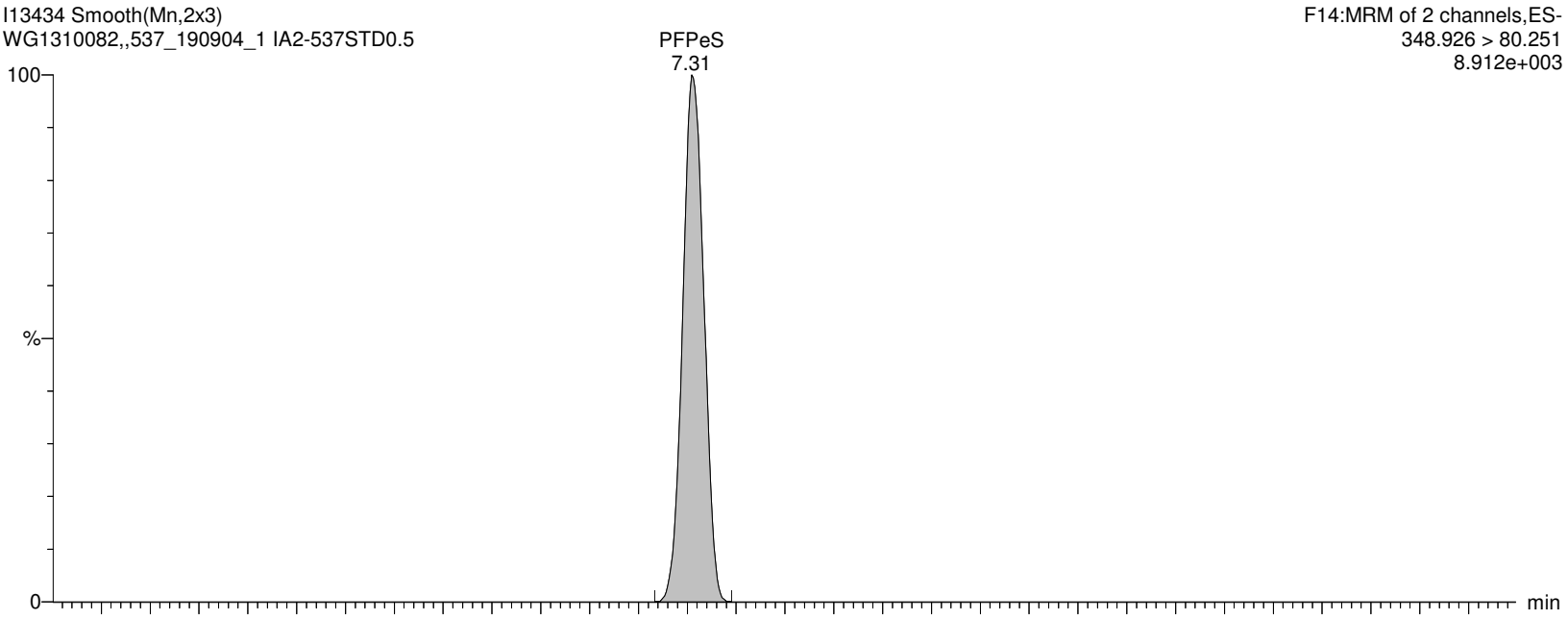

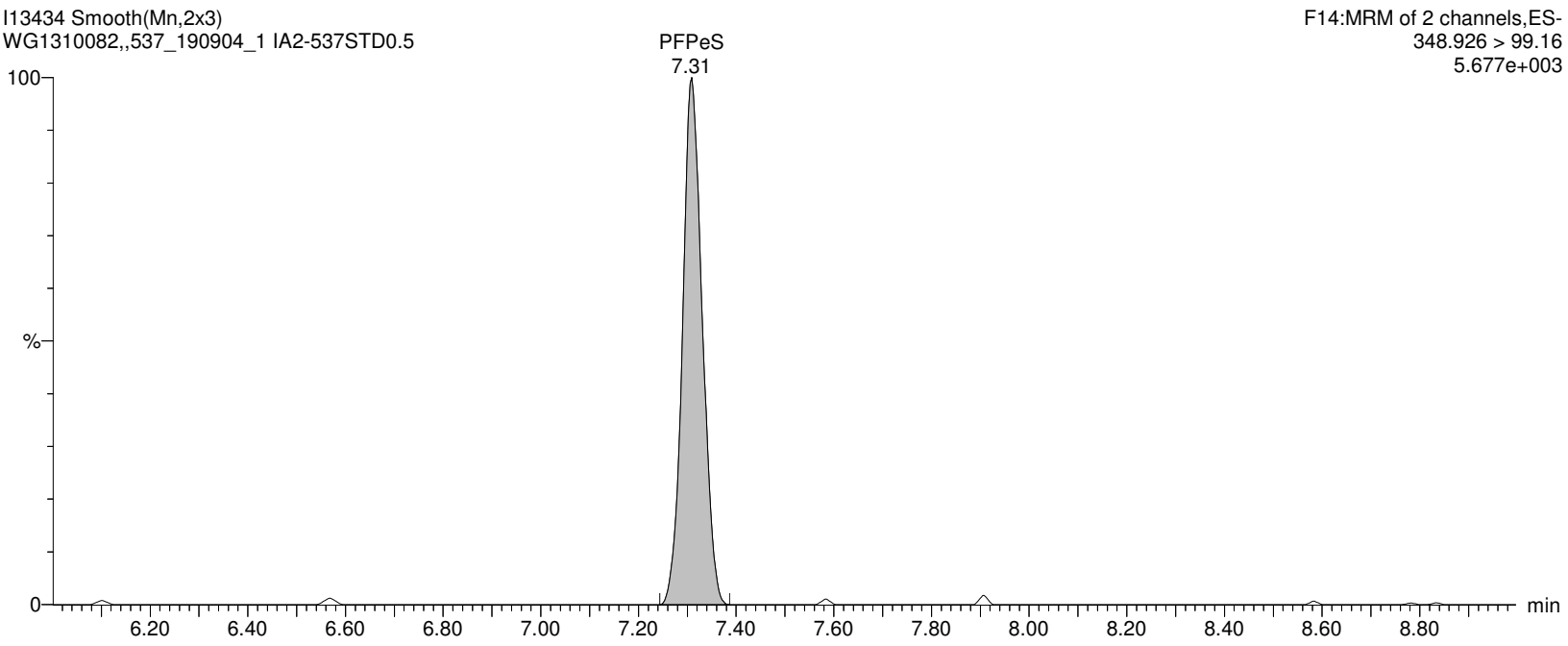

all concentration units in (ng/mL)

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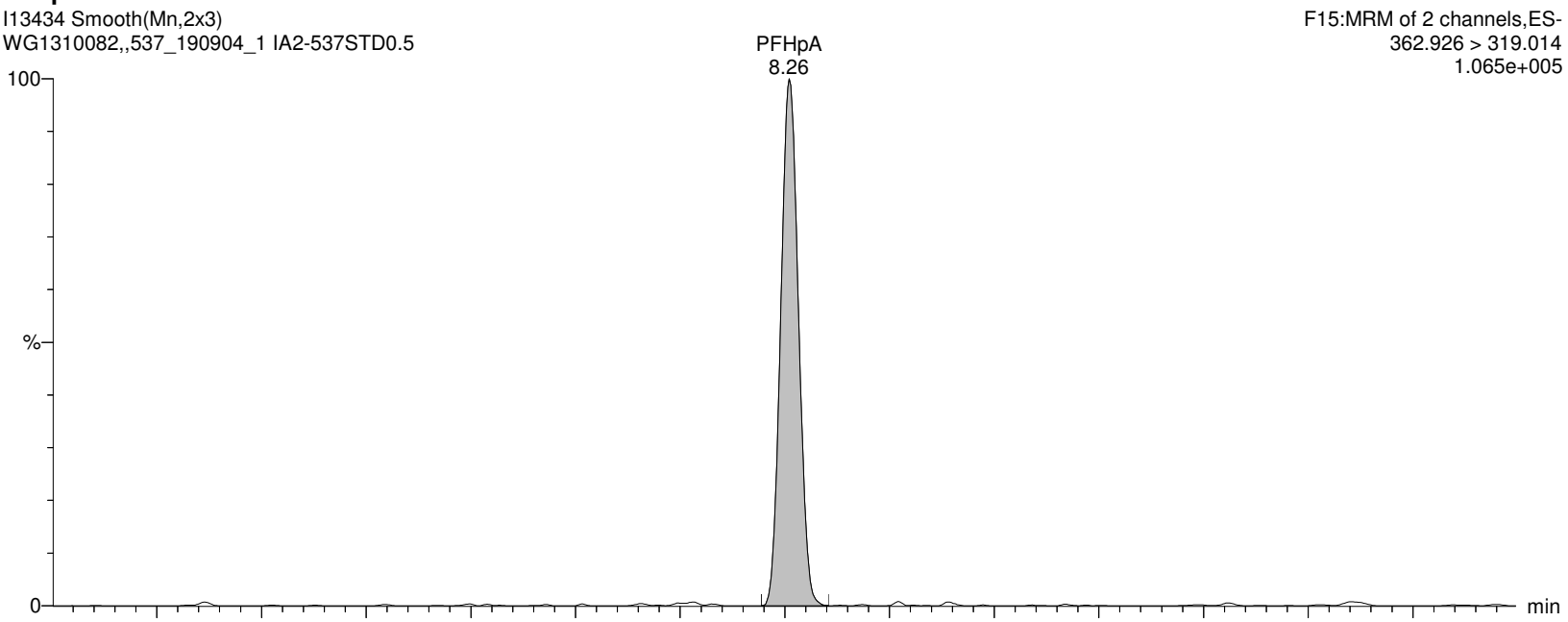

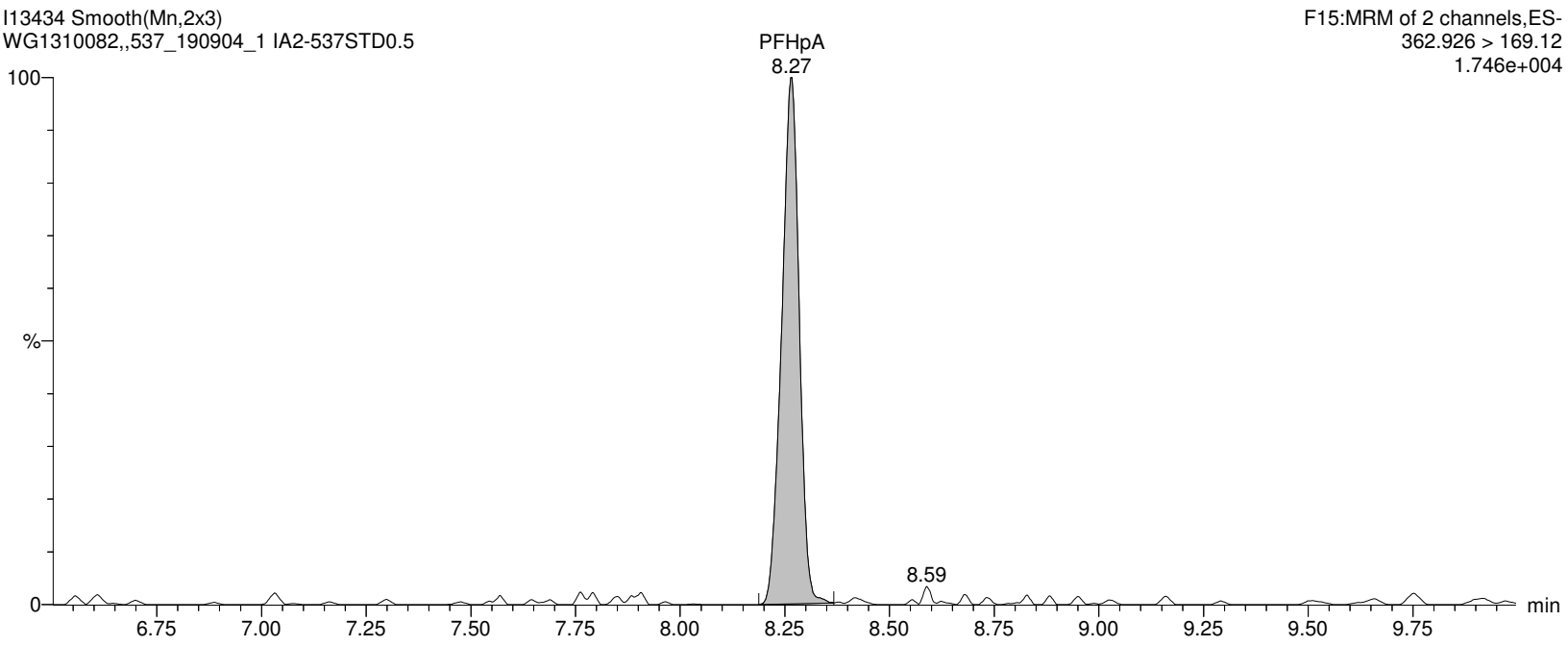

all concentration units in (ng/mL)

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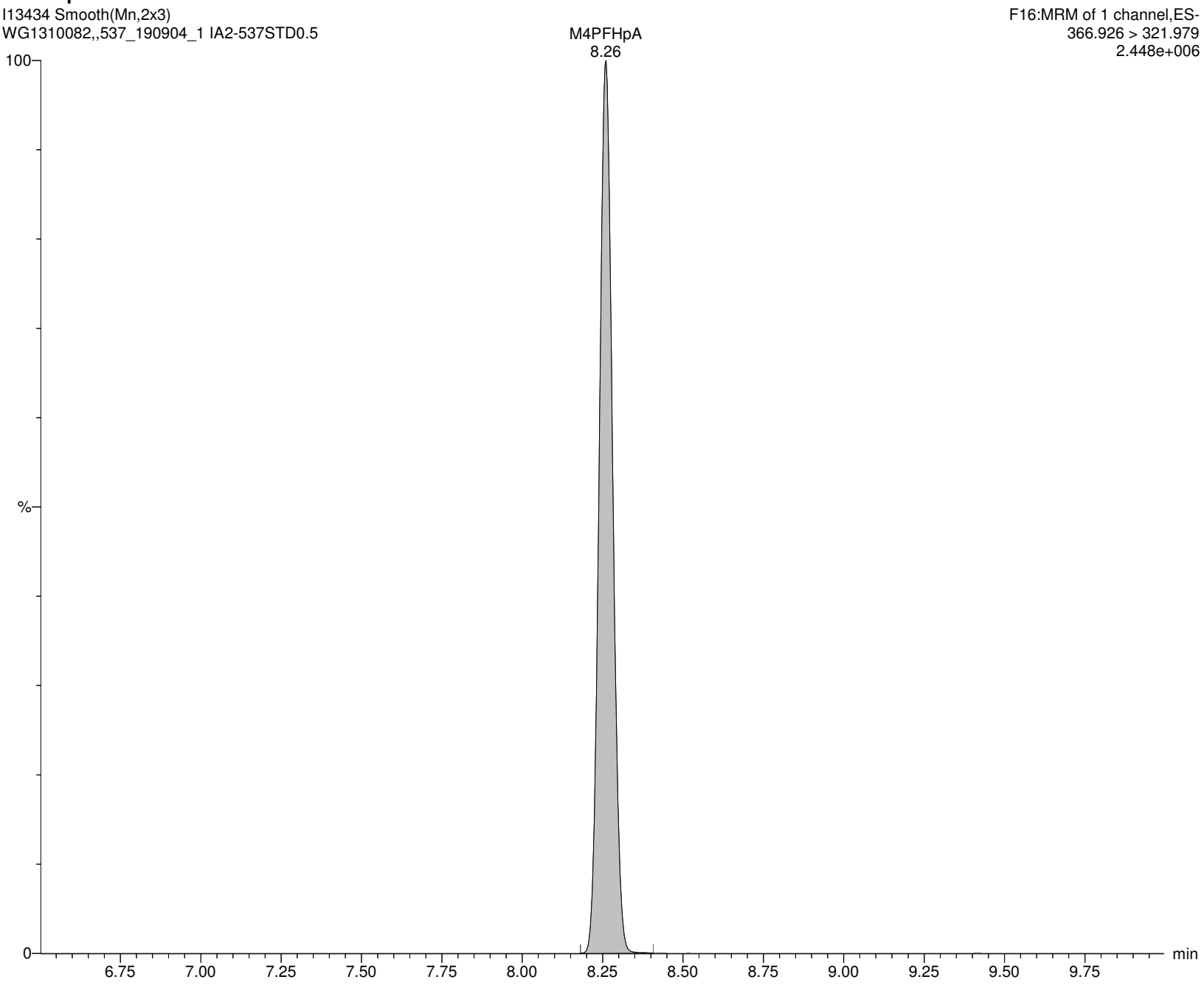

all concentration units in (ng/mL)

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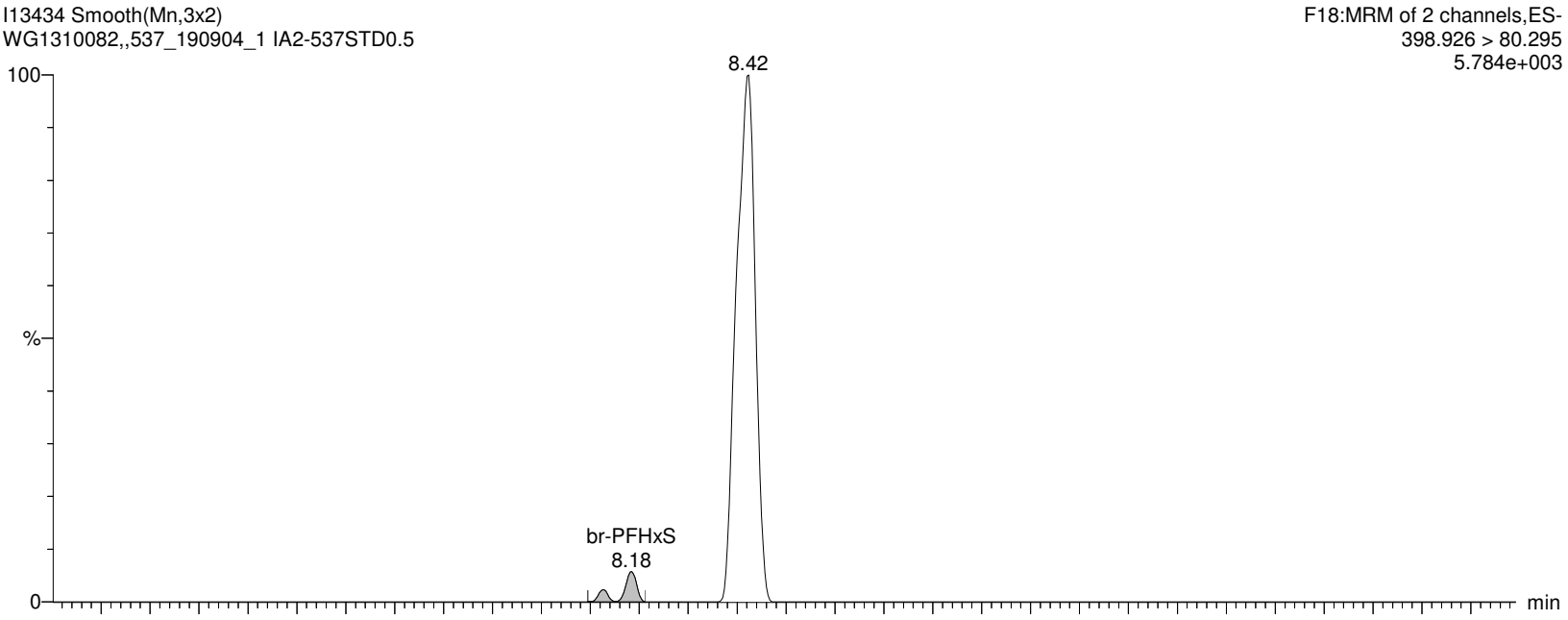

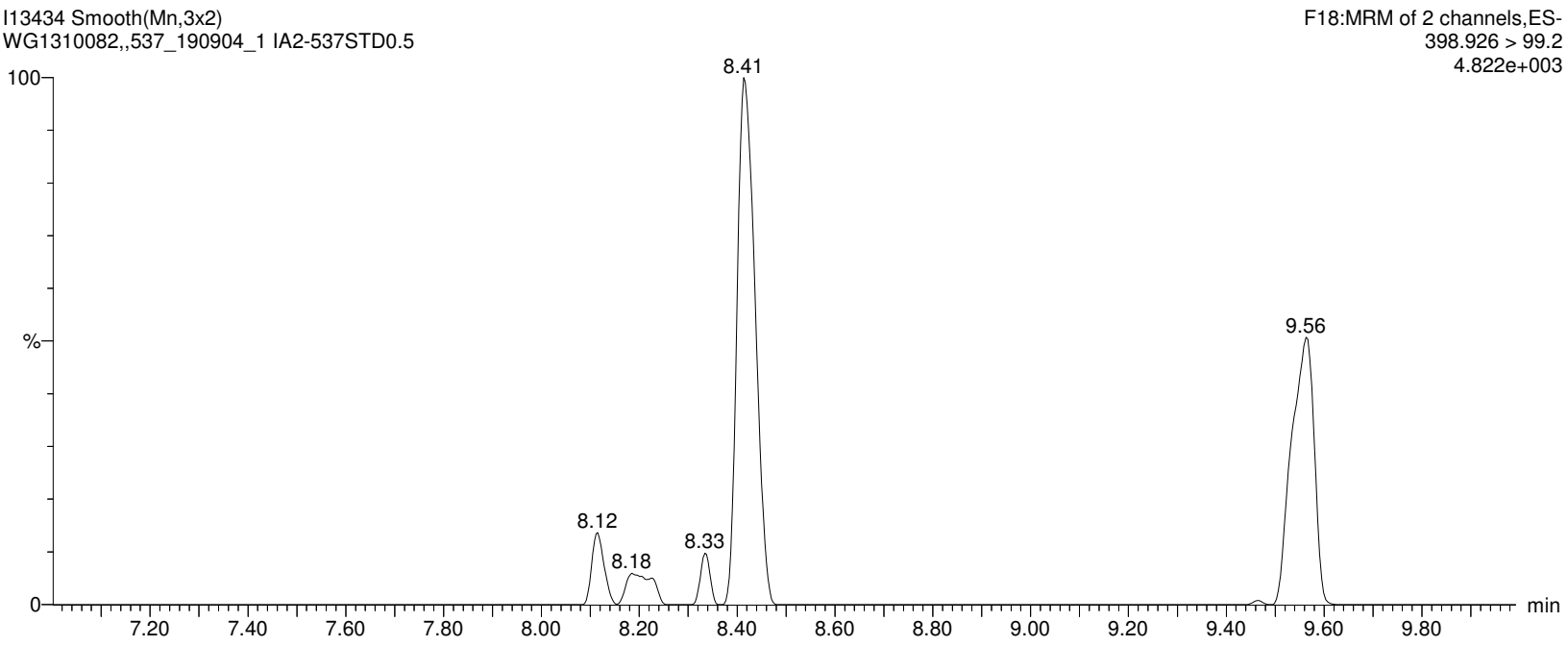

all concentration units in (ng/mL)

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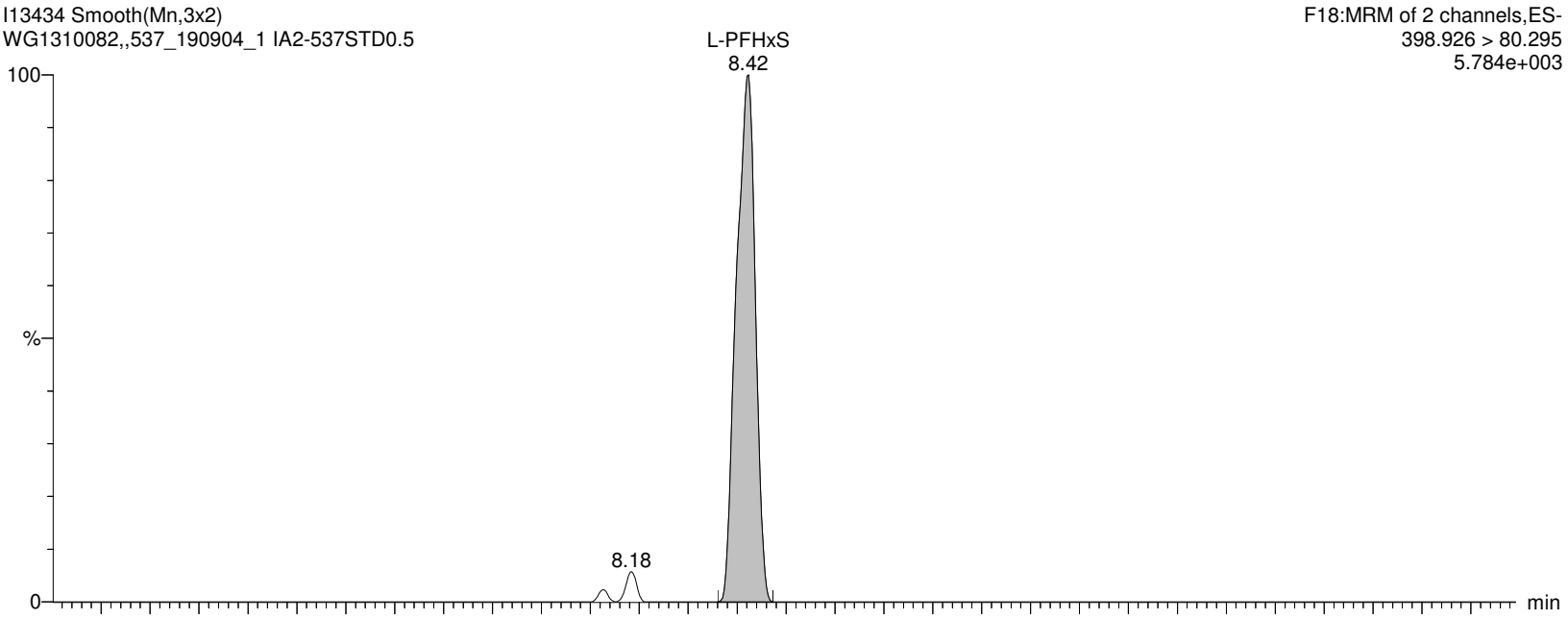

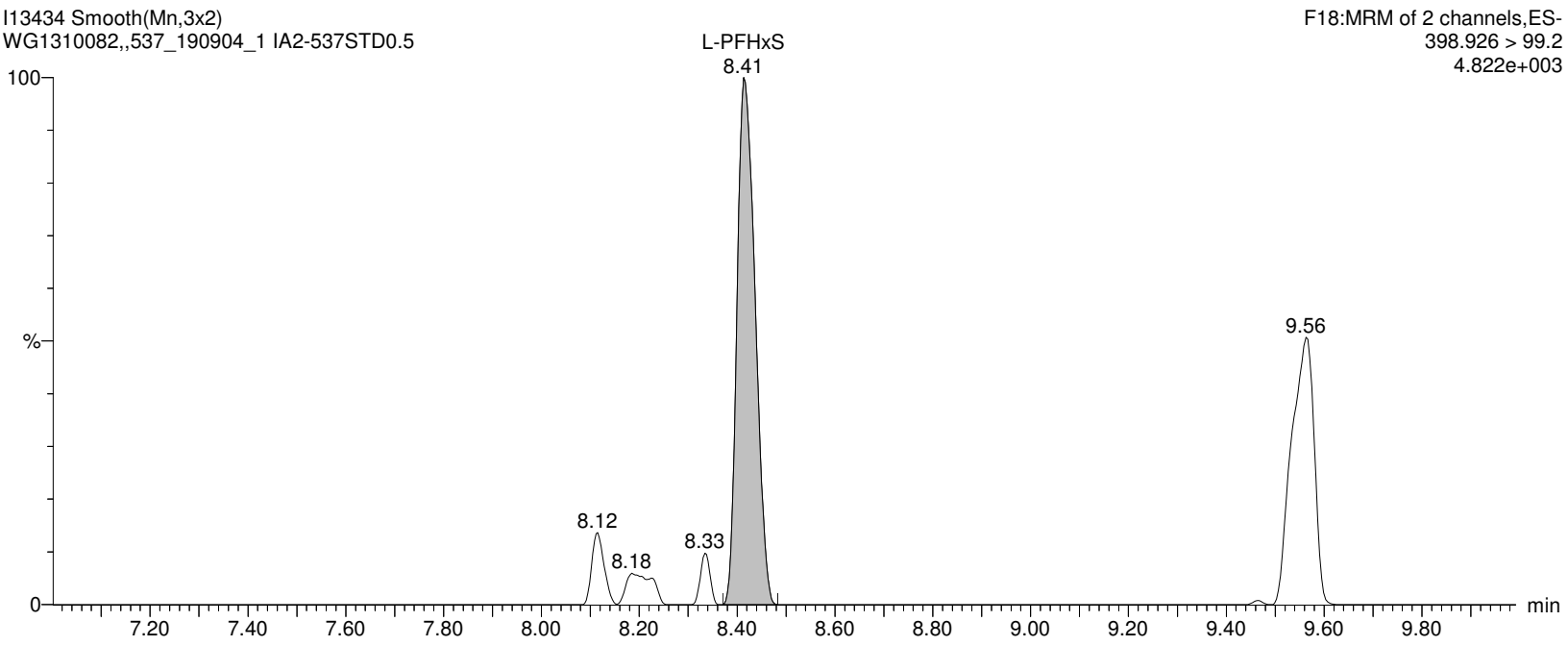

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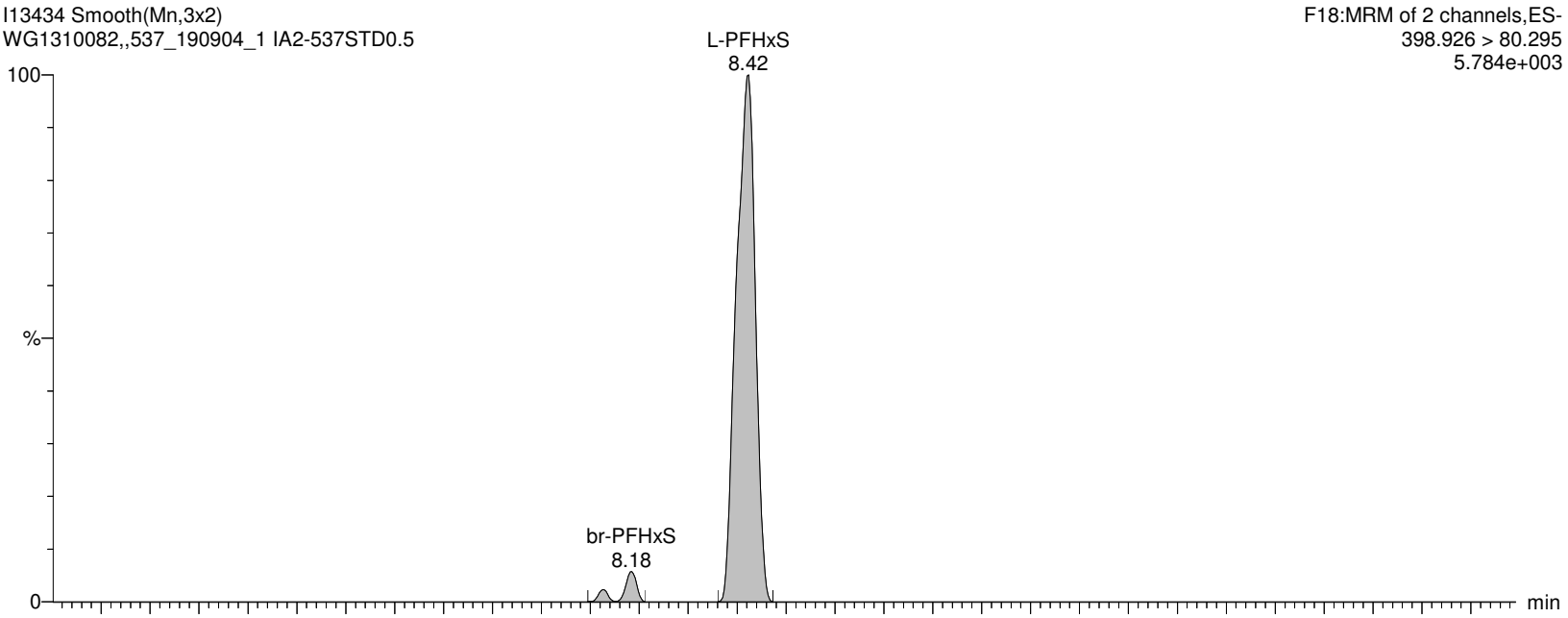

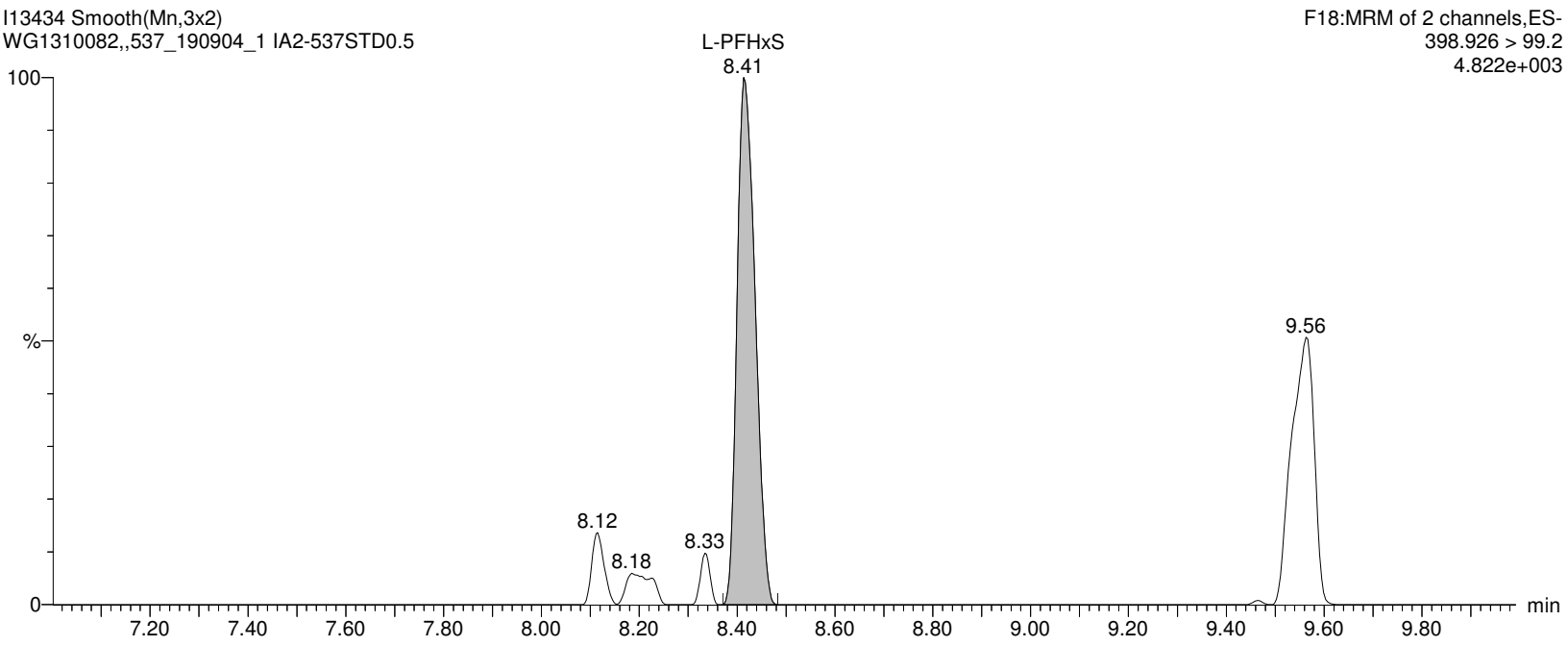

all concentration units in (ng/mL)

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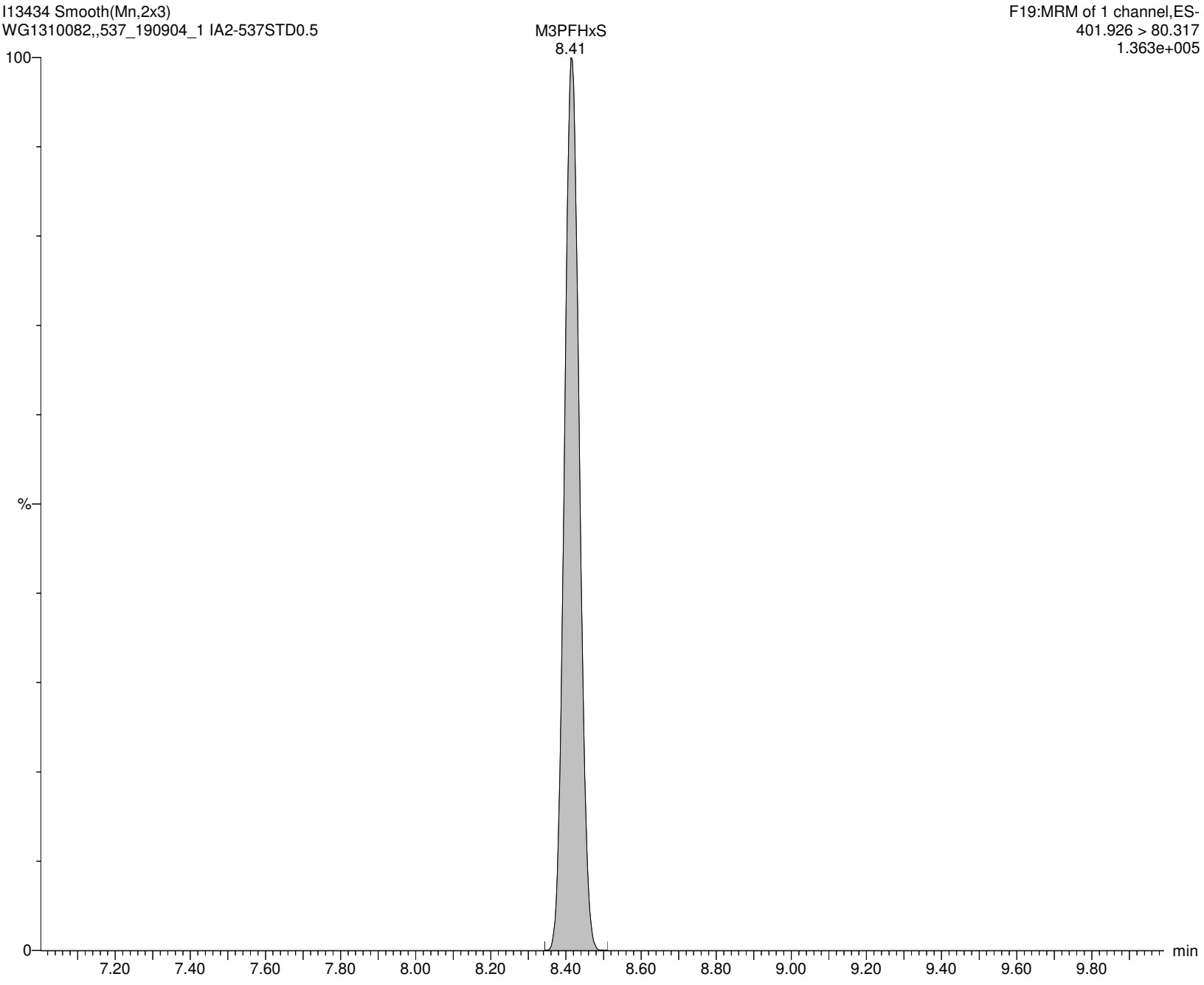

all concentration units in (ng/mL)

Alpha Analytical Inc.
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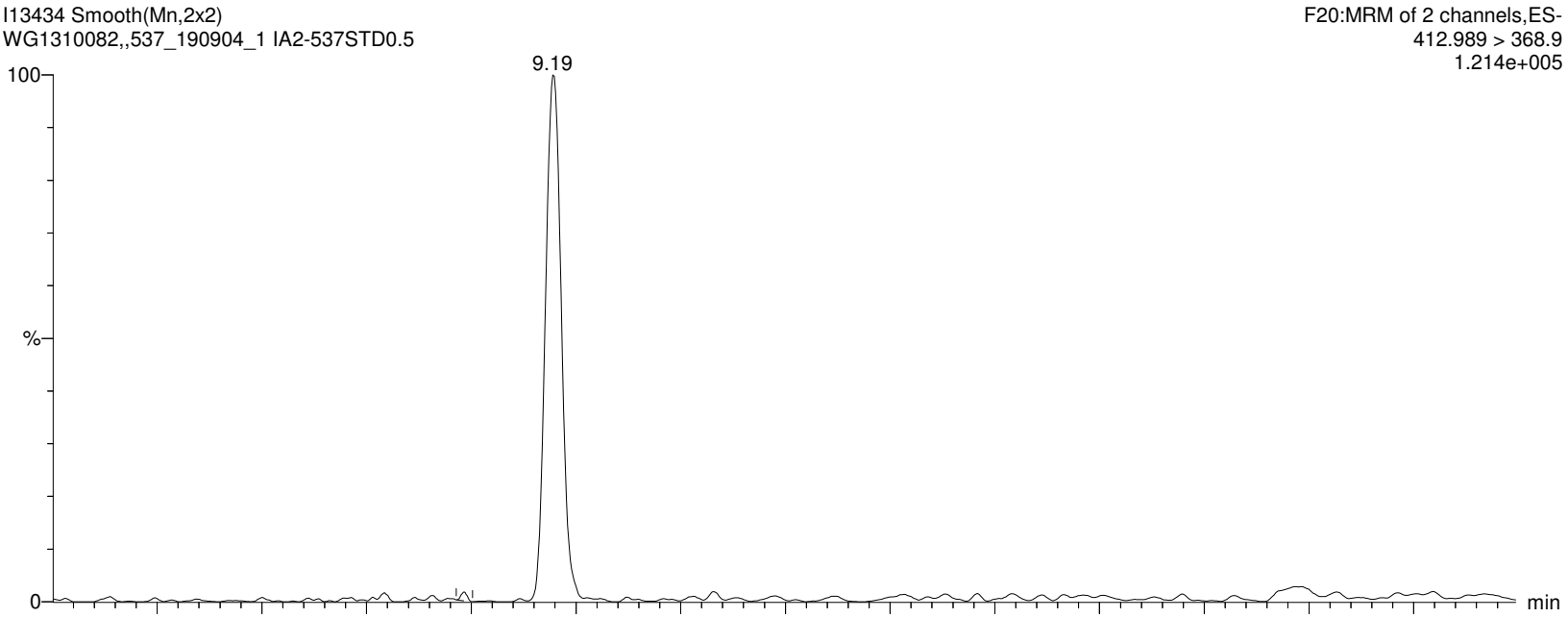

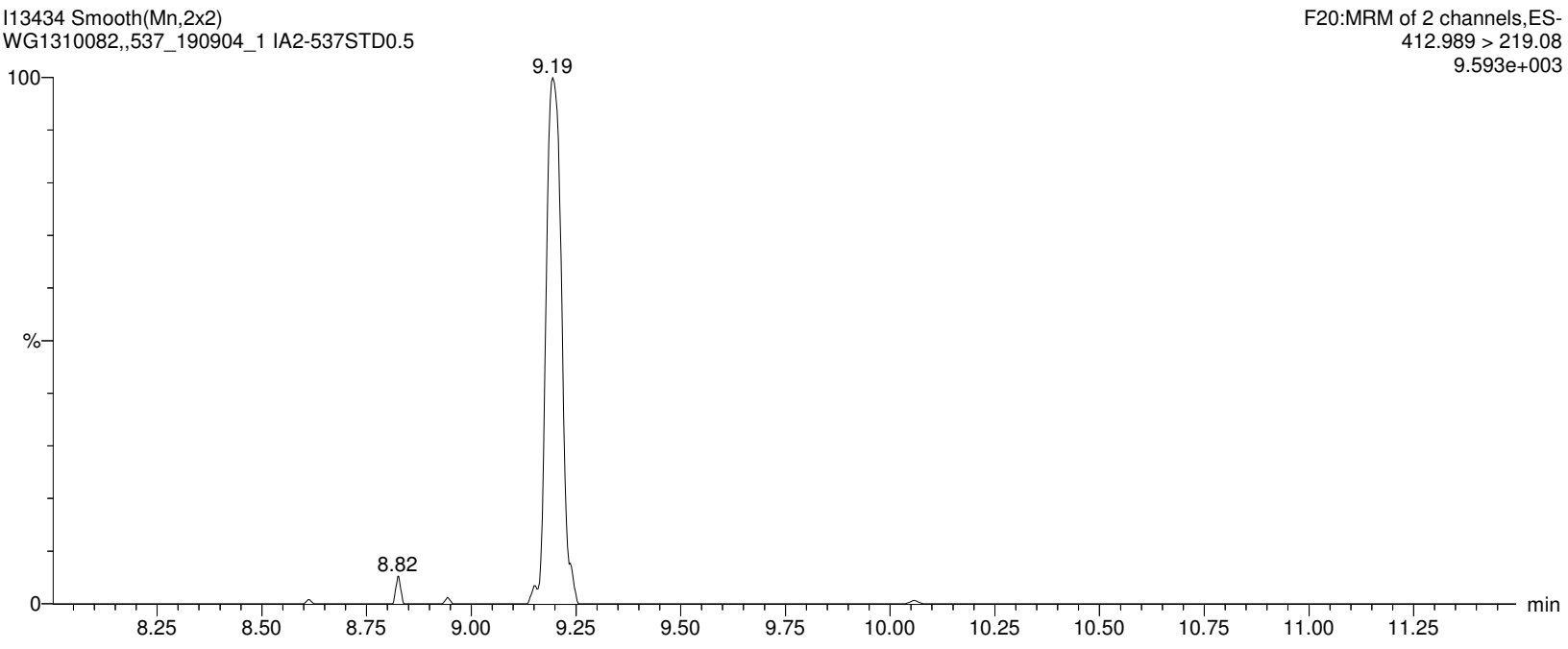

all concentration units in (ng/mL)

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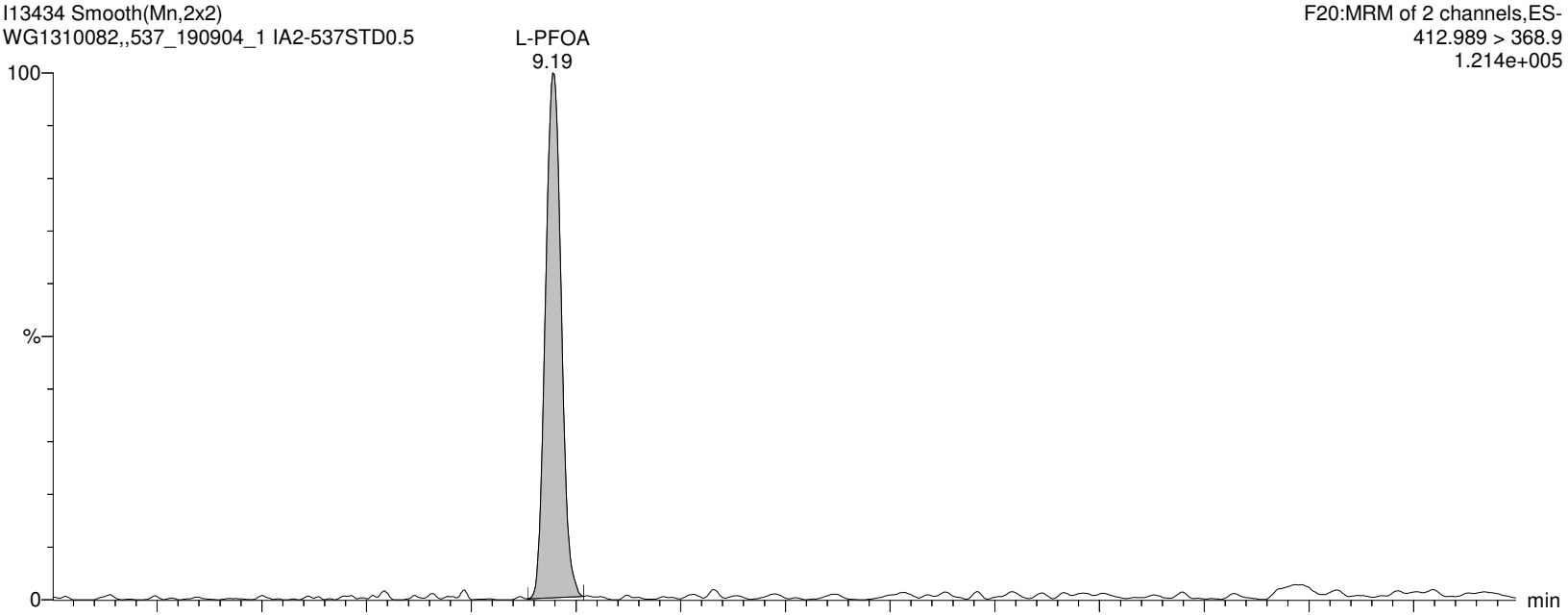

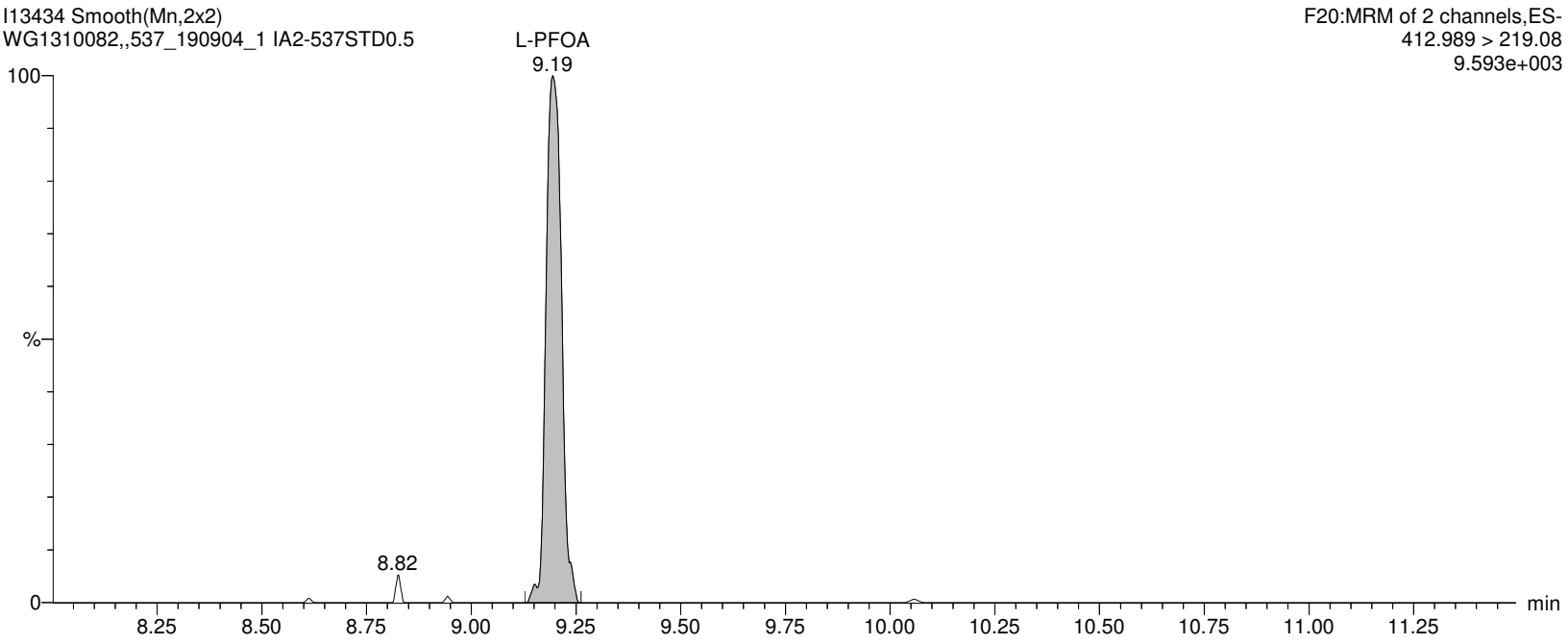

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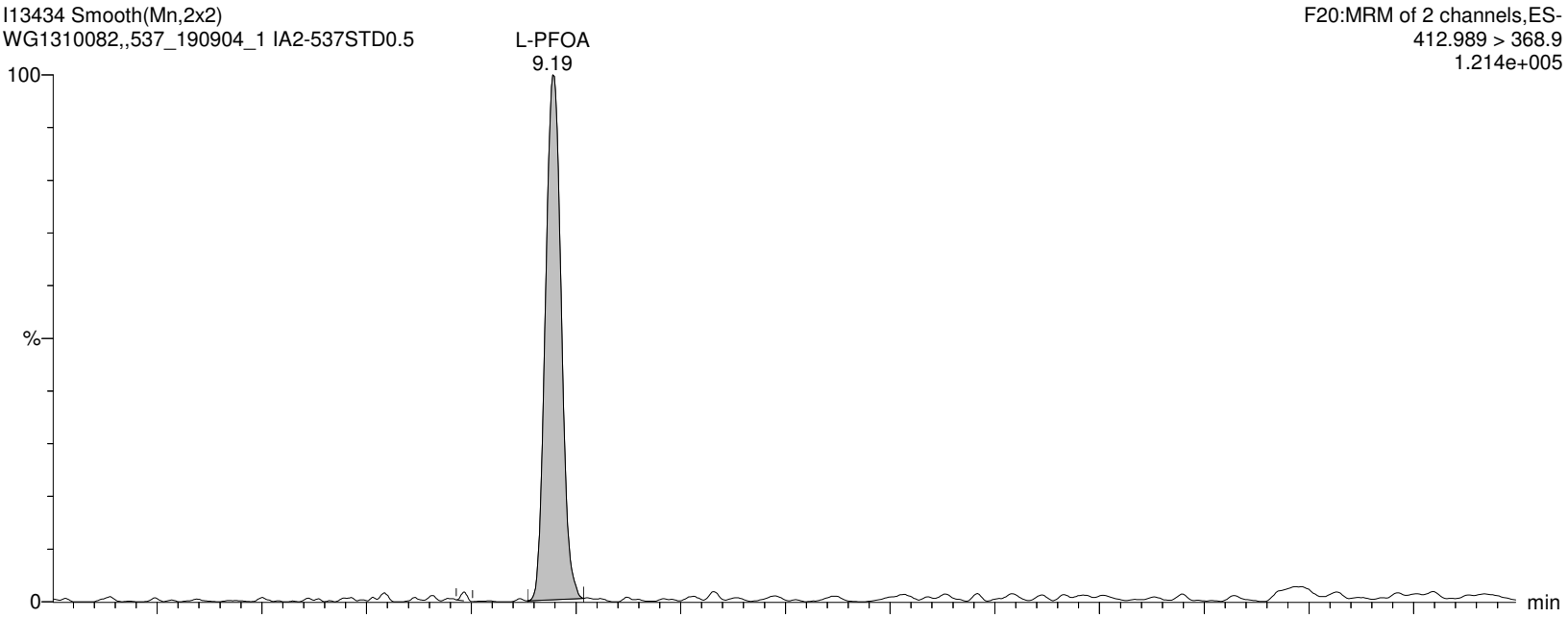

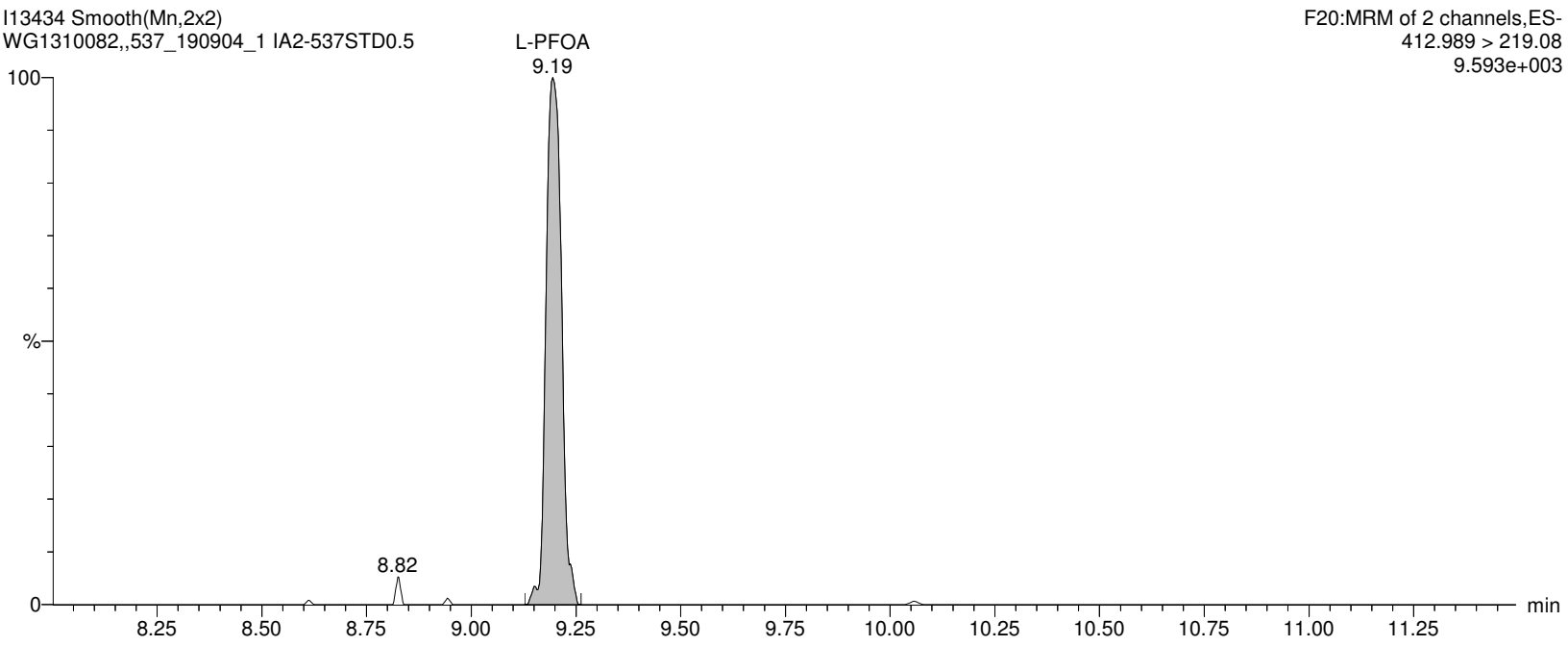

all concentration units in (ng/mL)

Alpha Analytical Inc.
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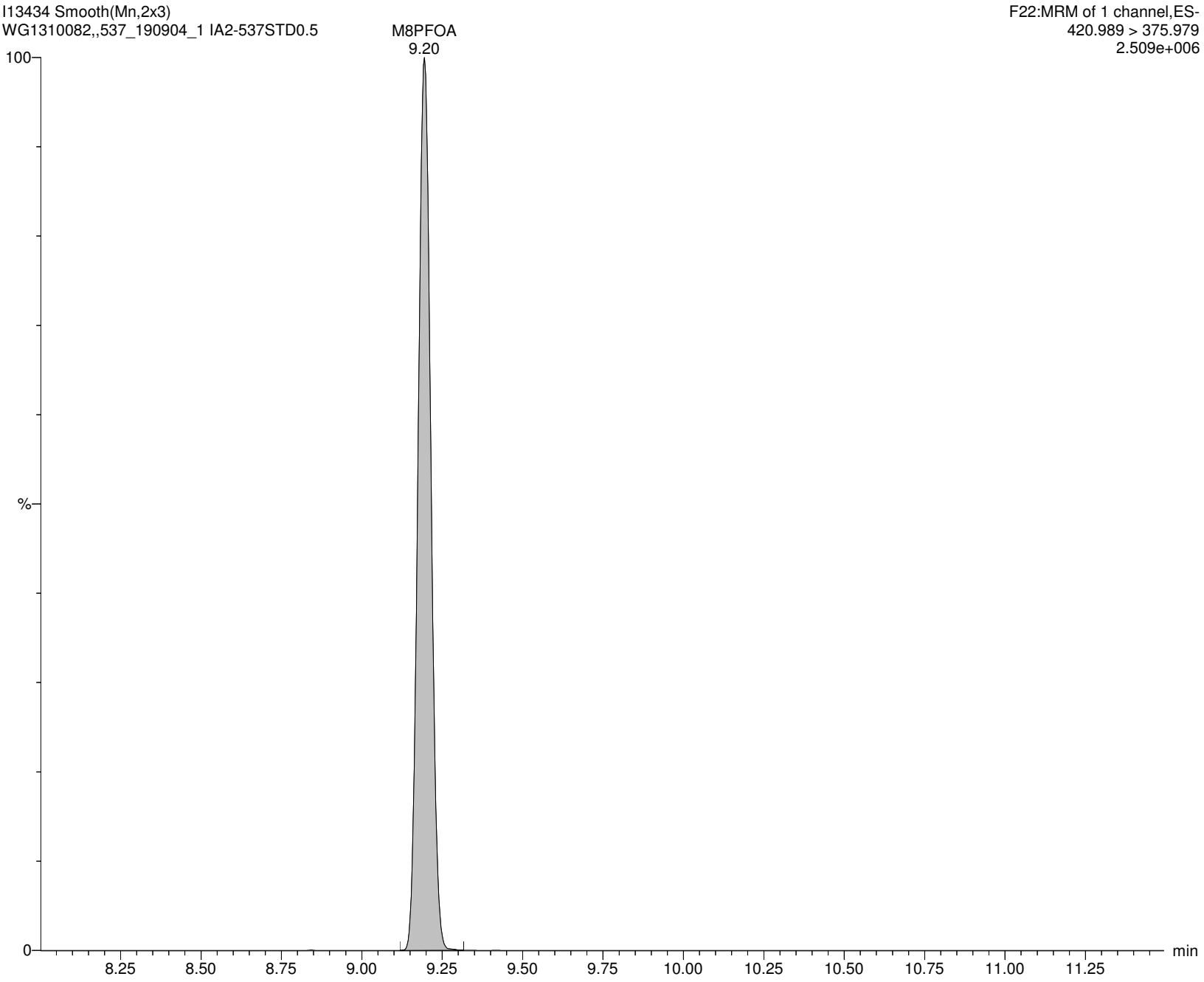

all concentration units in (ng/mL)

Alpha Analytical Inc.
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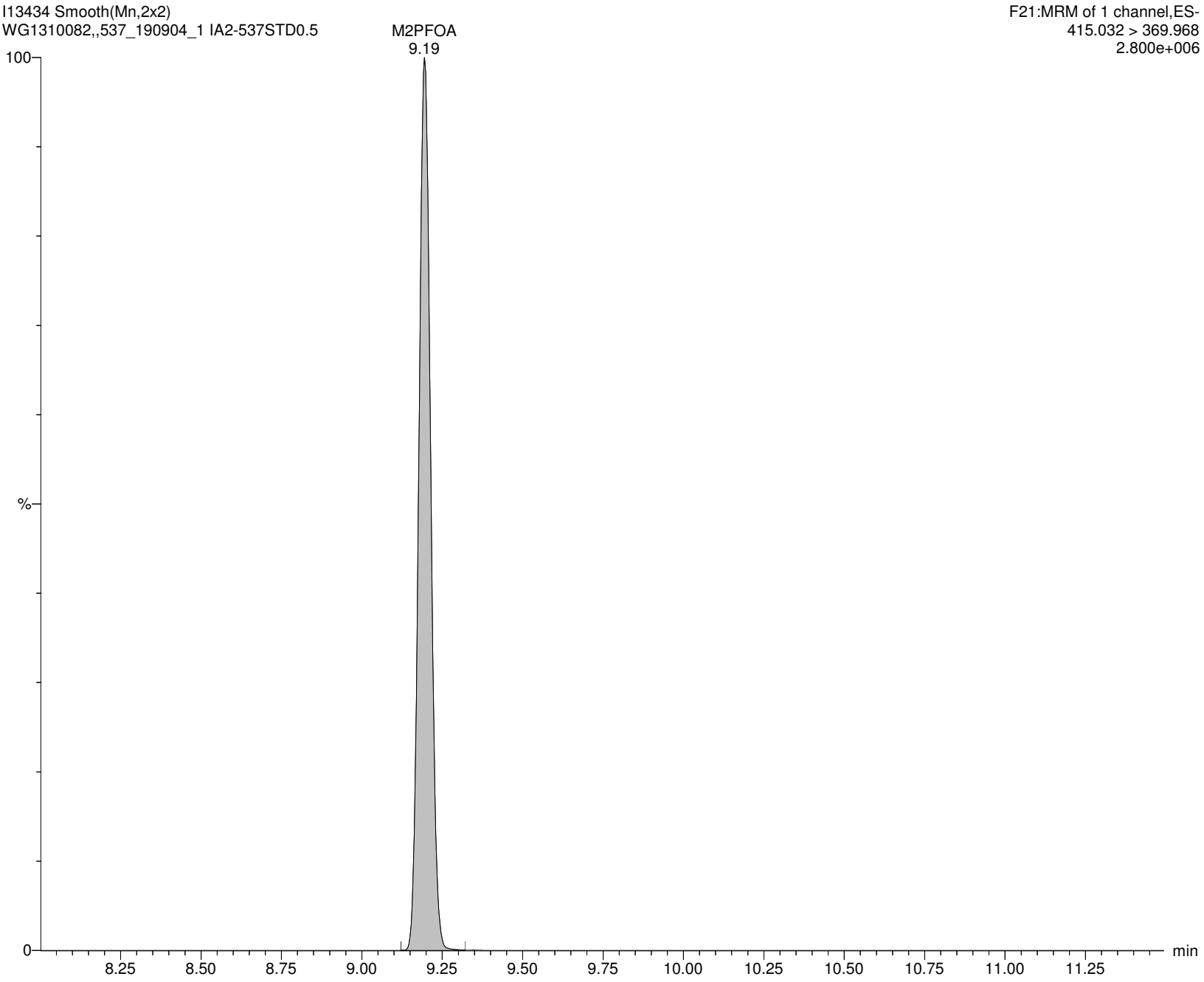

all concentration units in (ng/mL)

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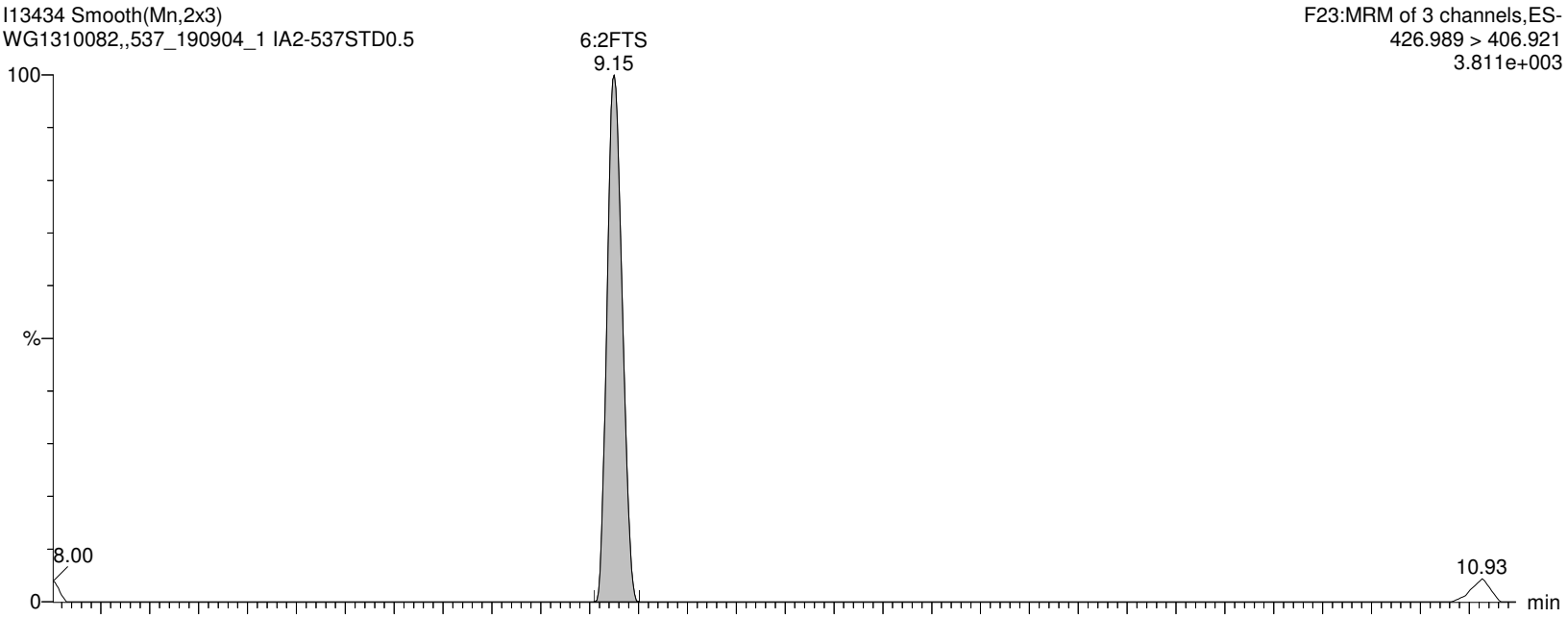

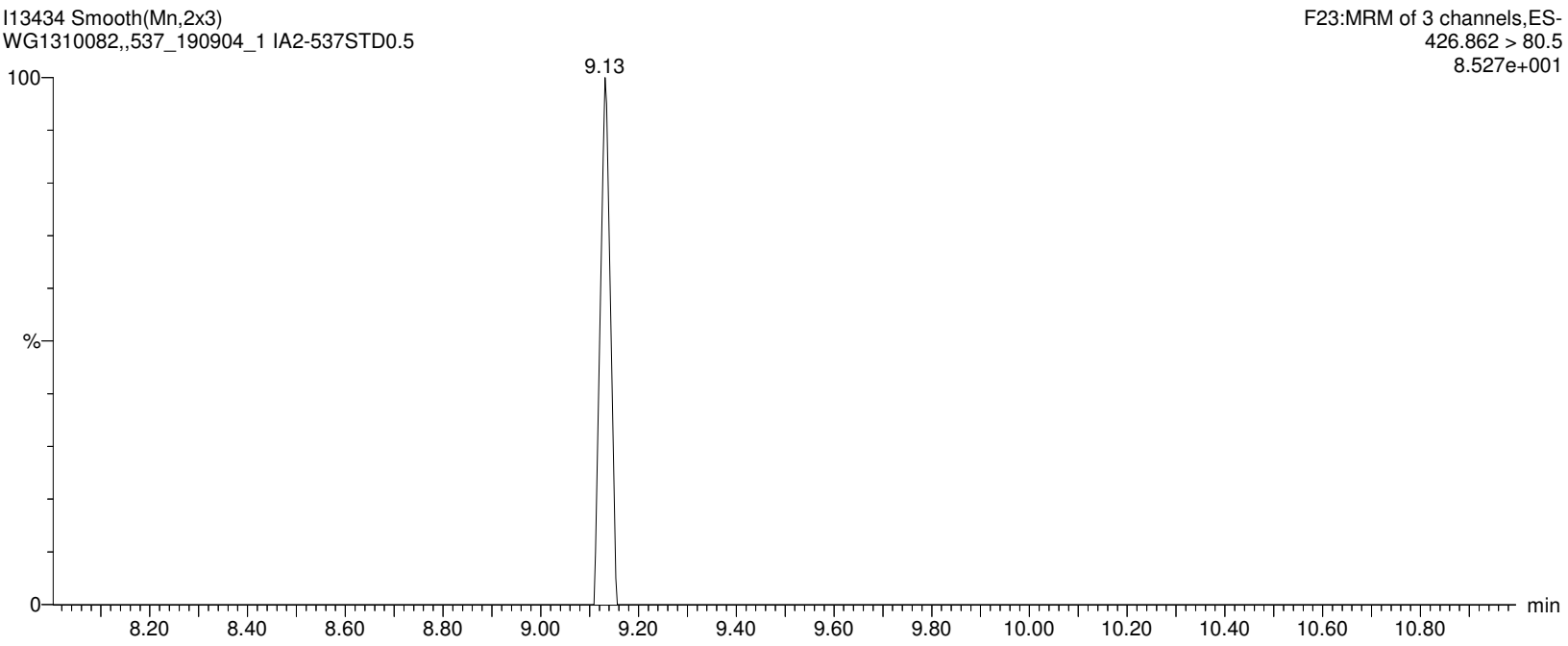

all concentration units in (ng/mL)

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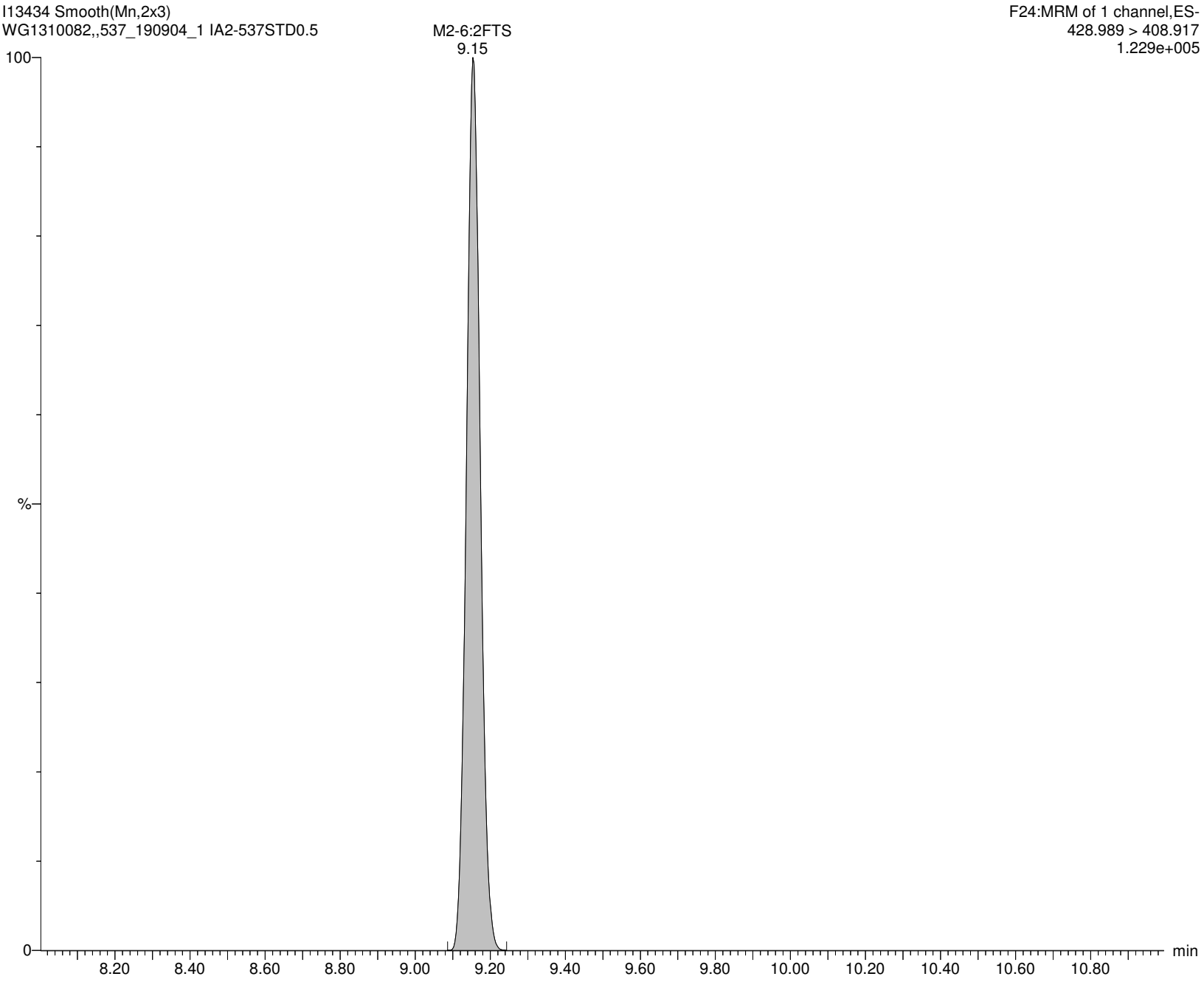

all concentration units in (ng/mL)

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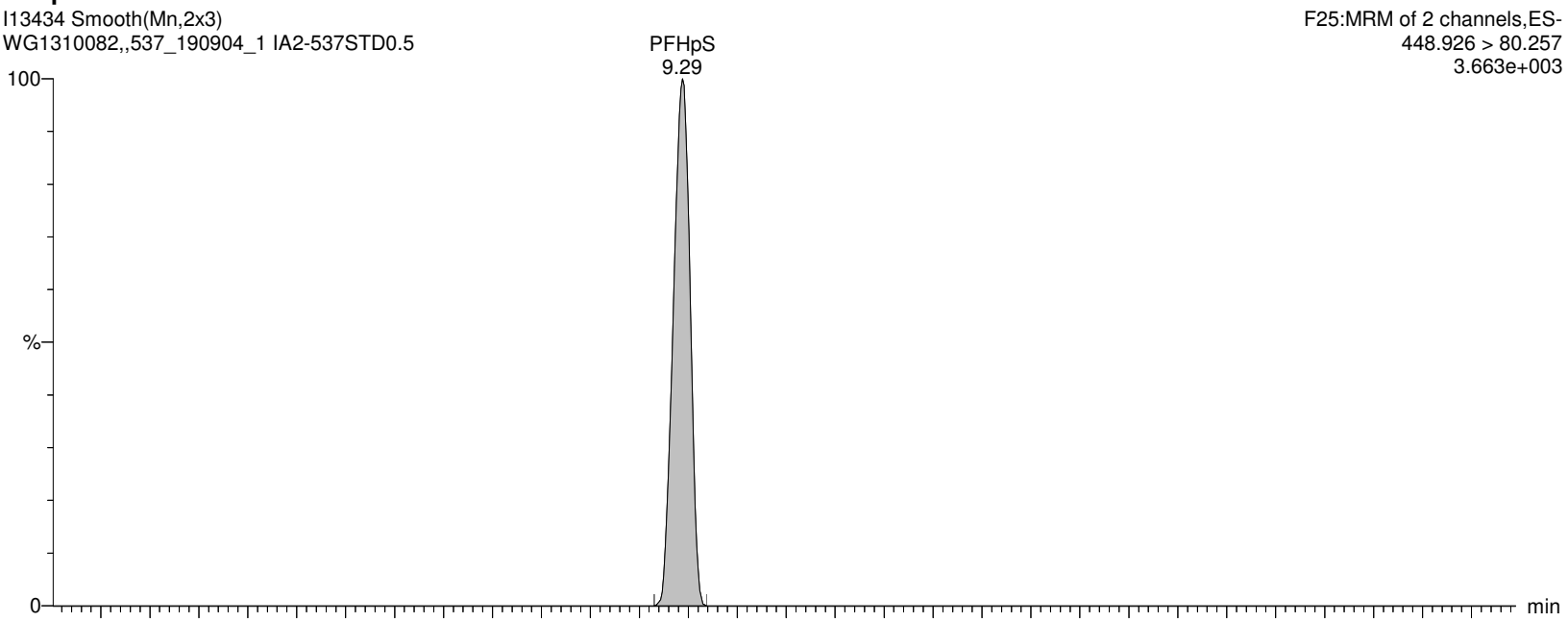

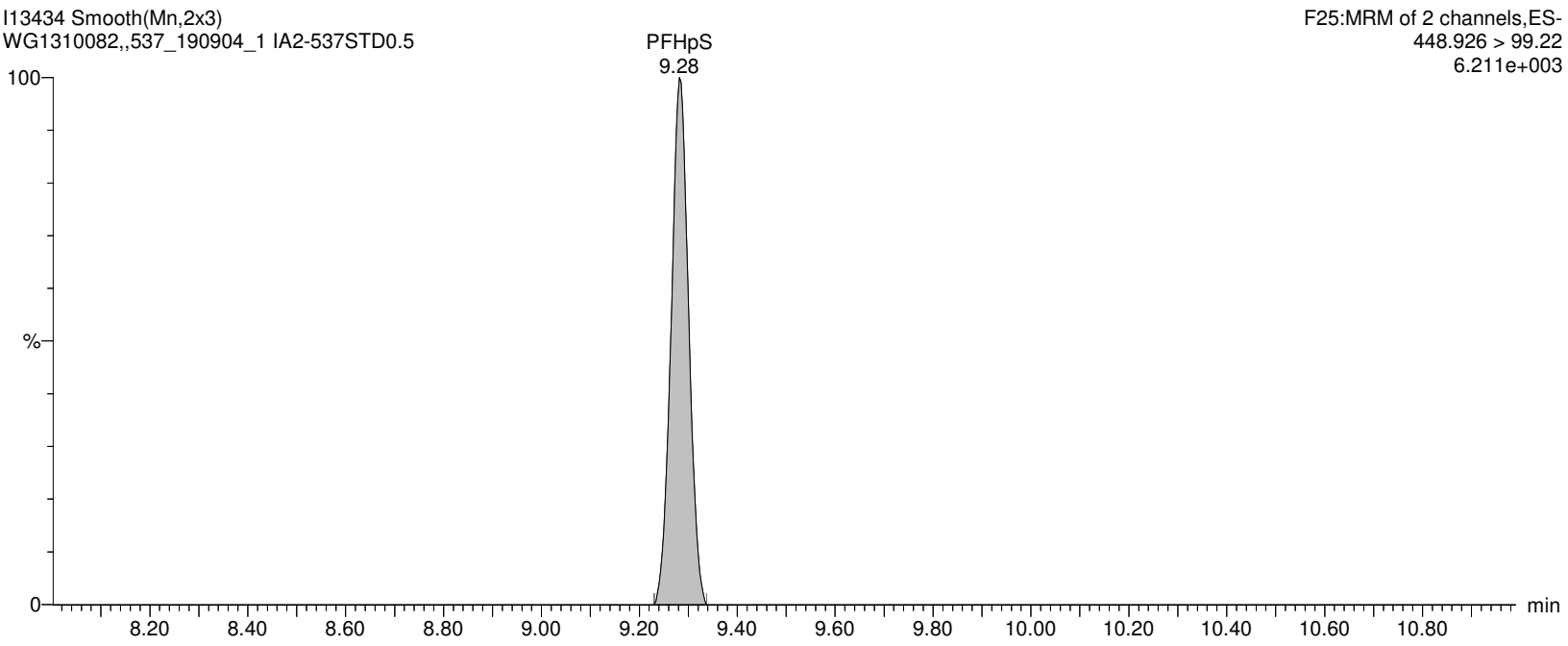

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:48 Eastern Standard Time

Name: I13434
ID: IA2-537STD0.5
Date: 18-Nov-2019
Time: 10:24:43
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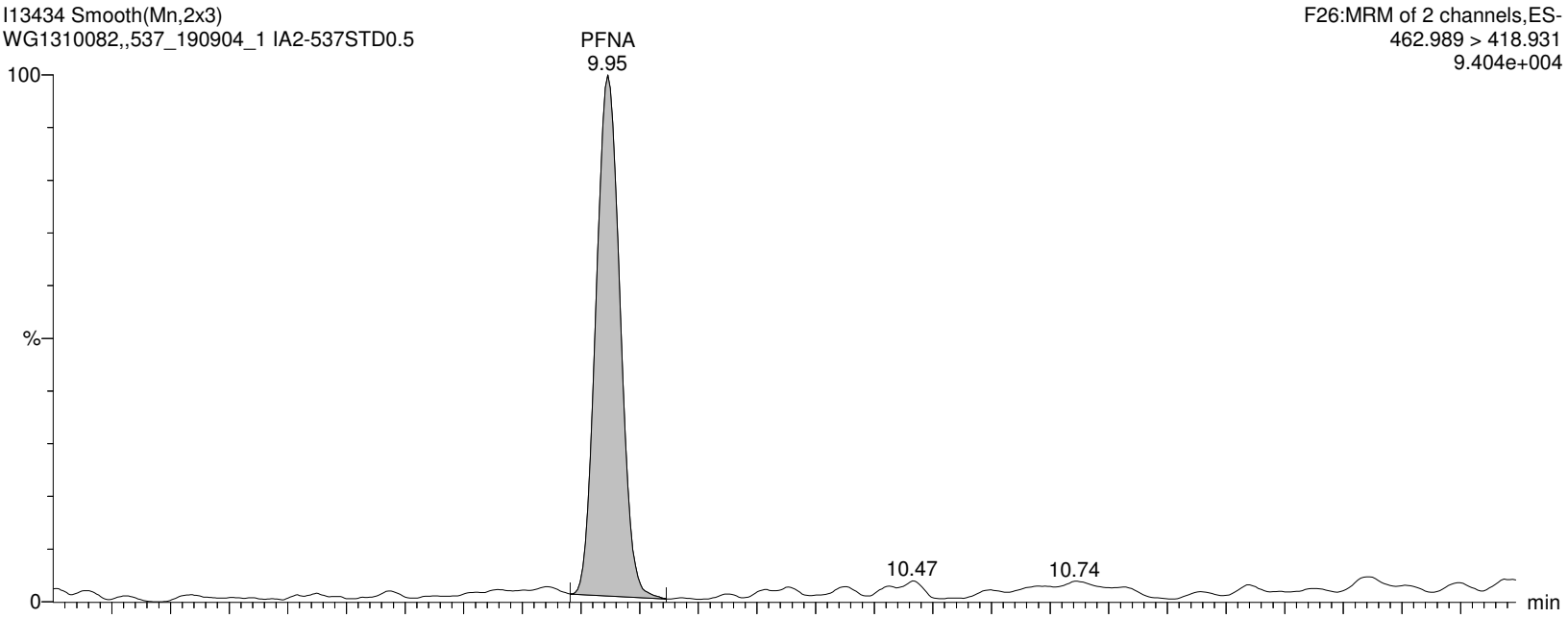

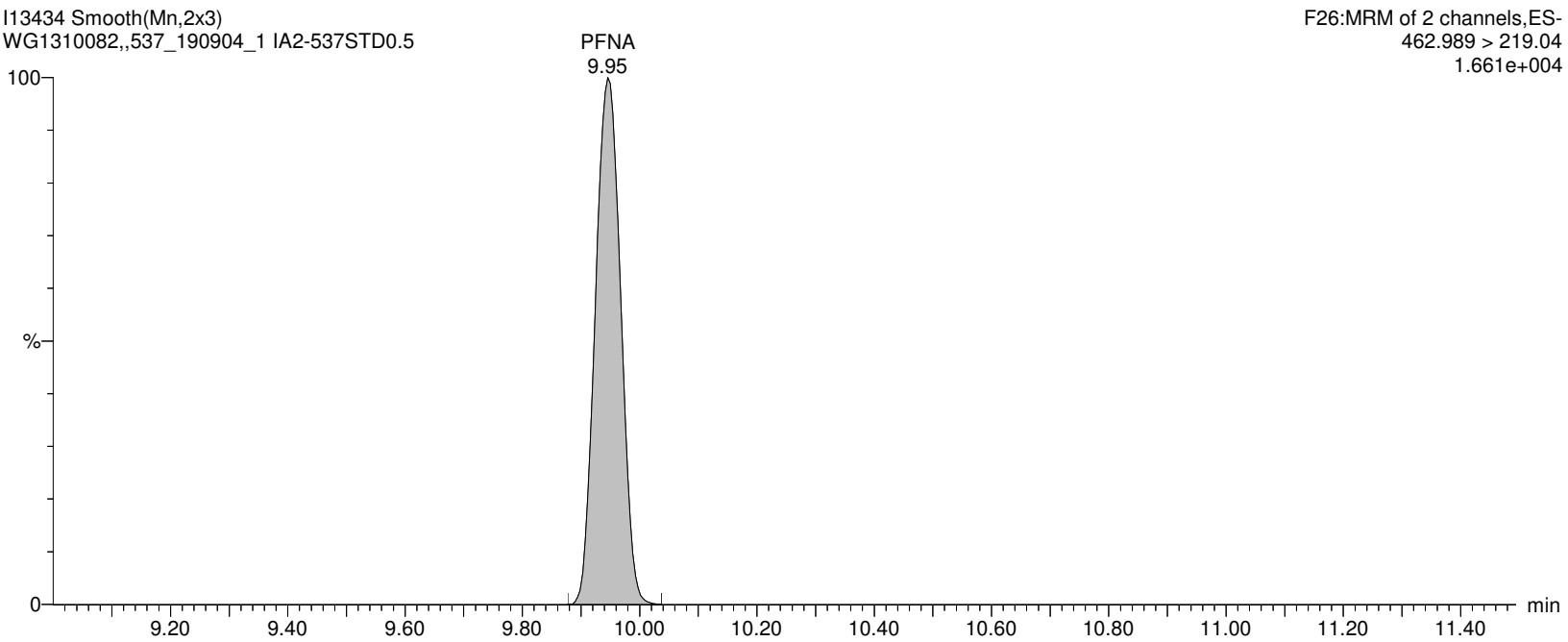

all concentration units in (ng/mL)

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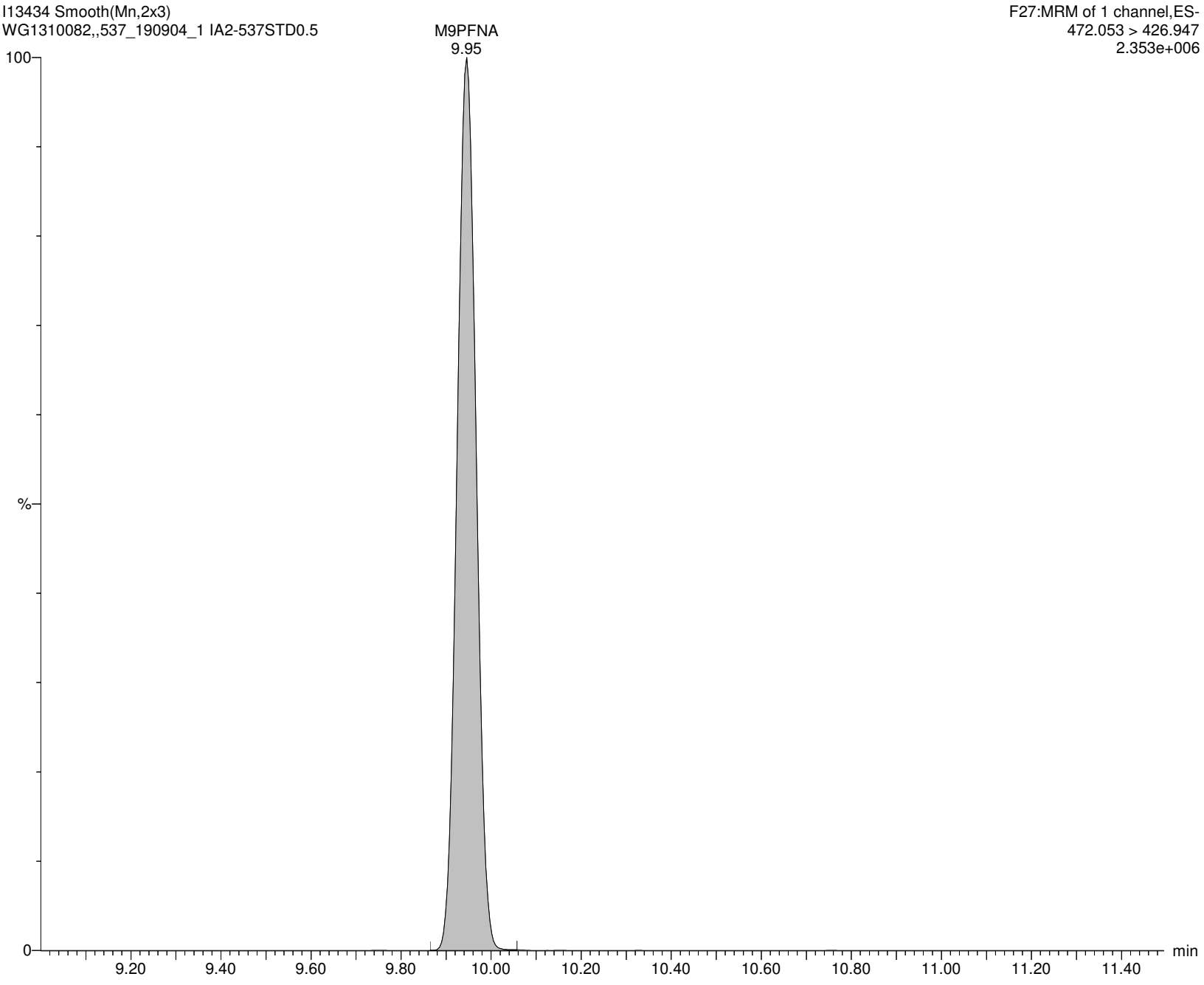

all concentration units in (ng/mL)

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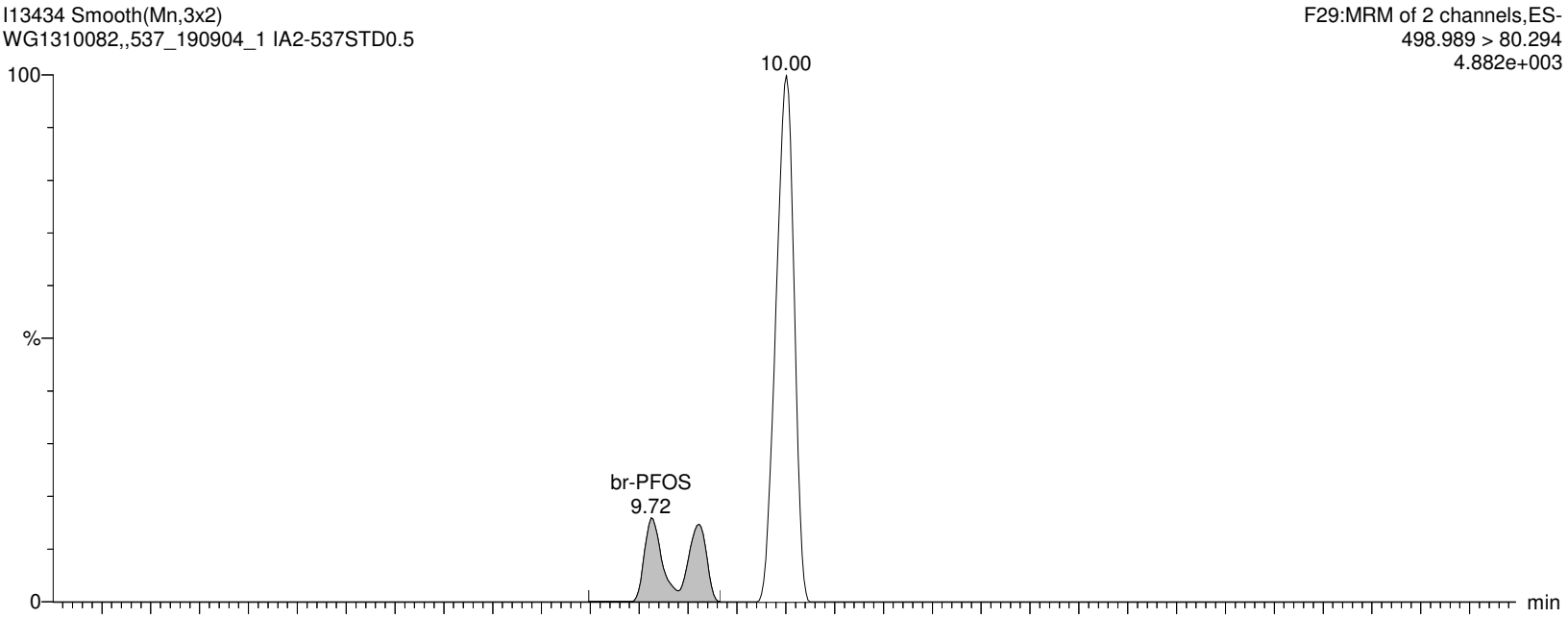

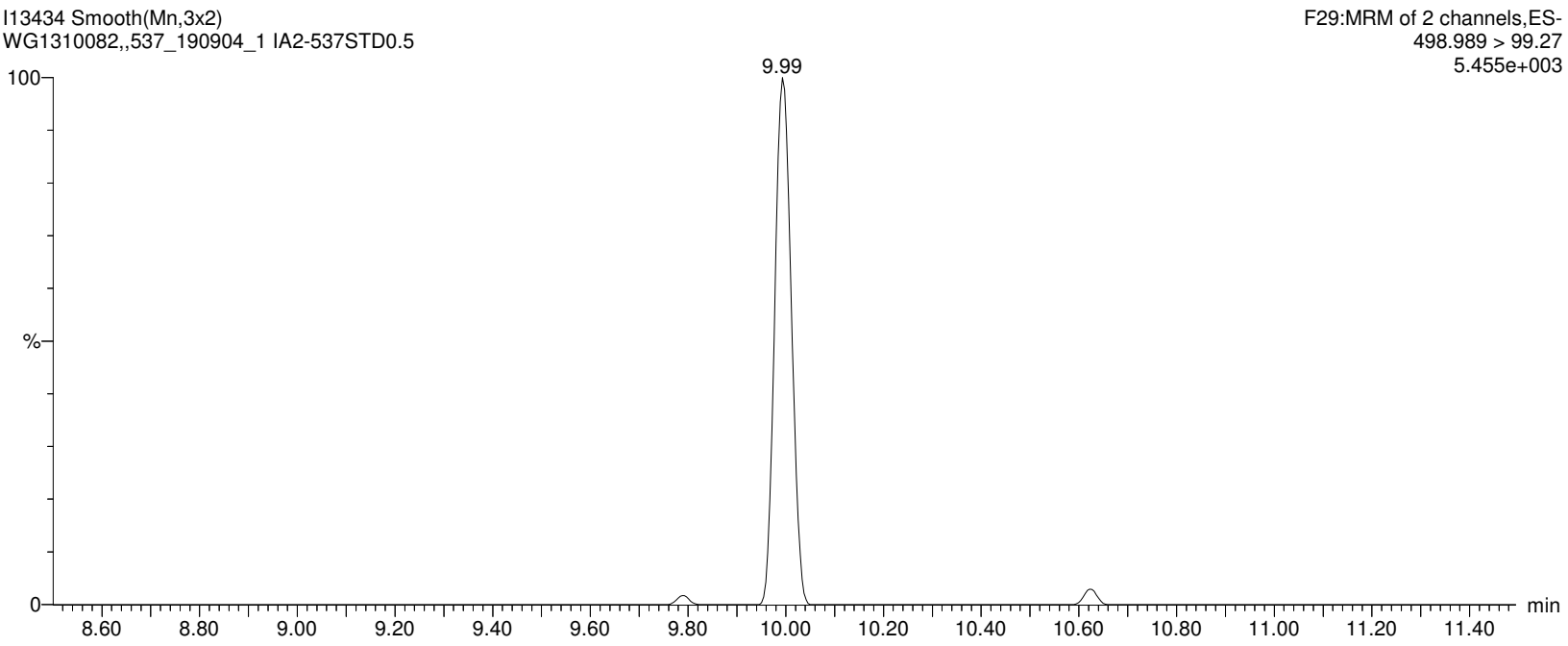

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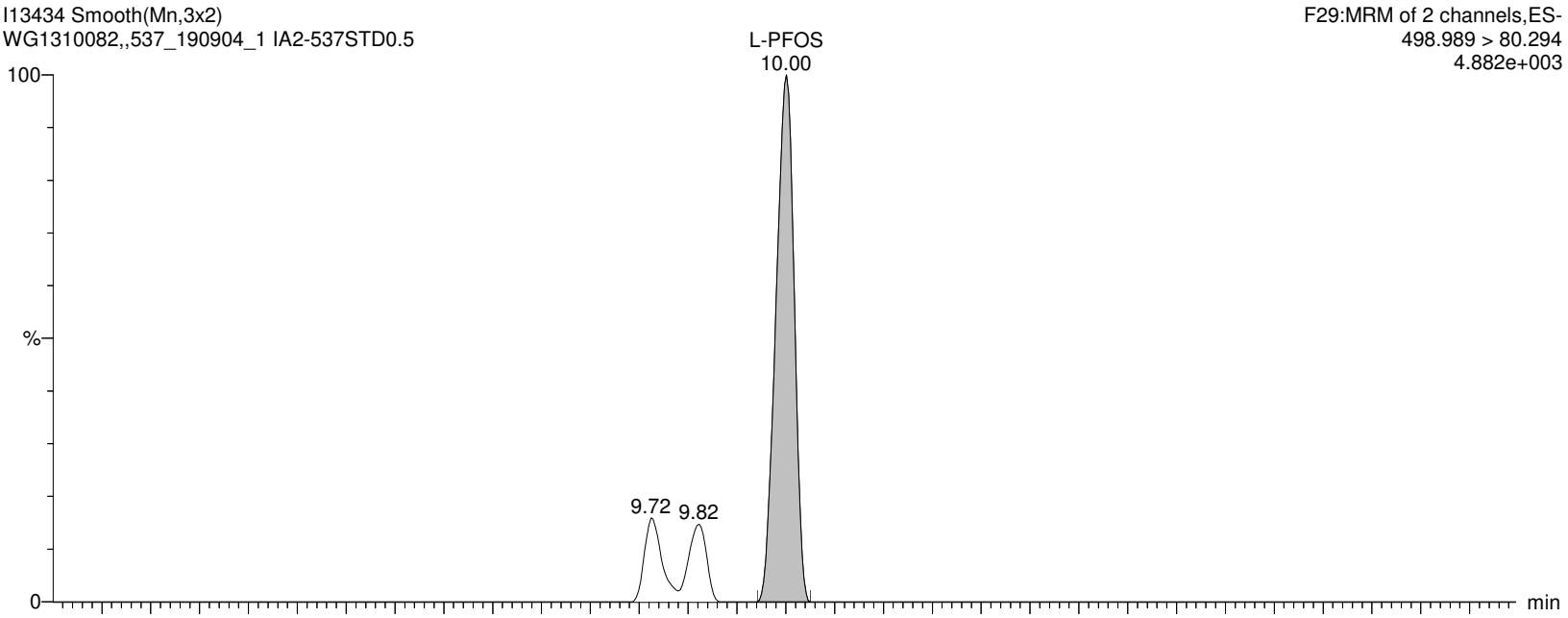

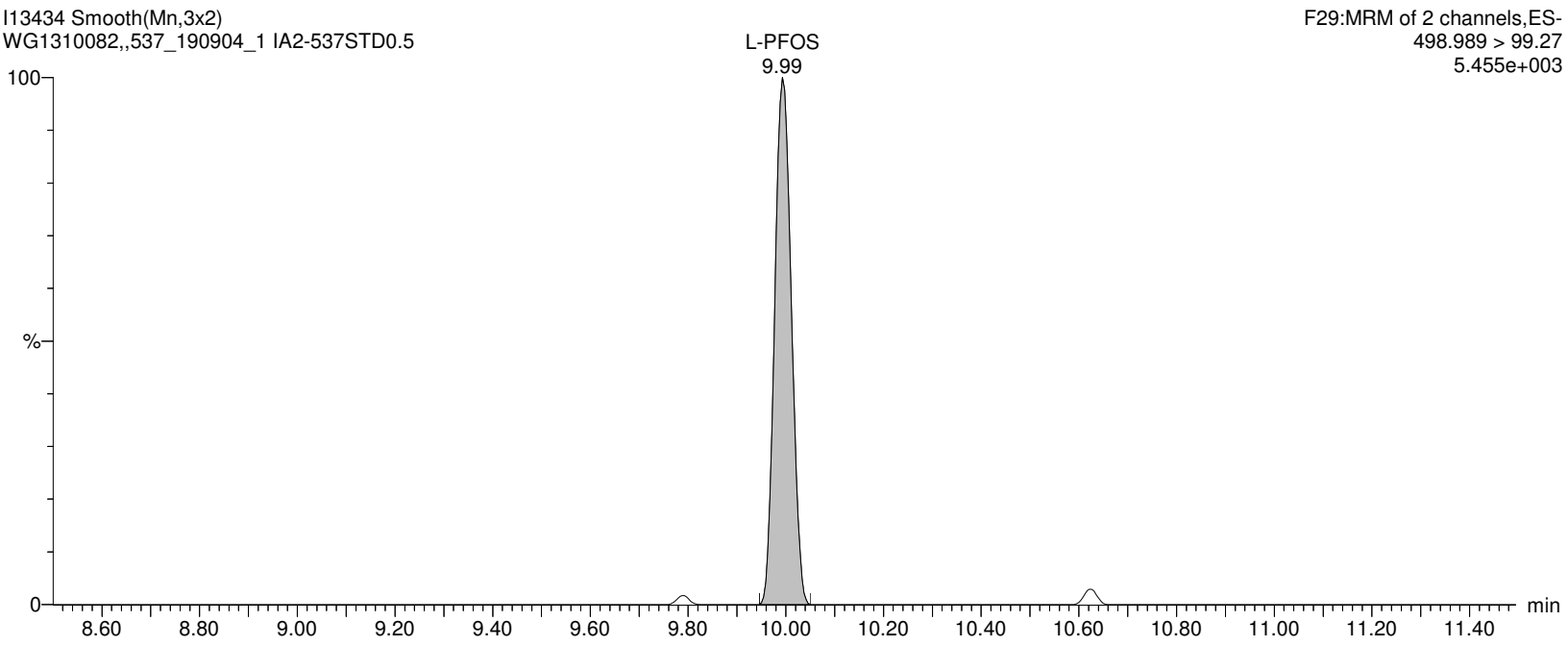

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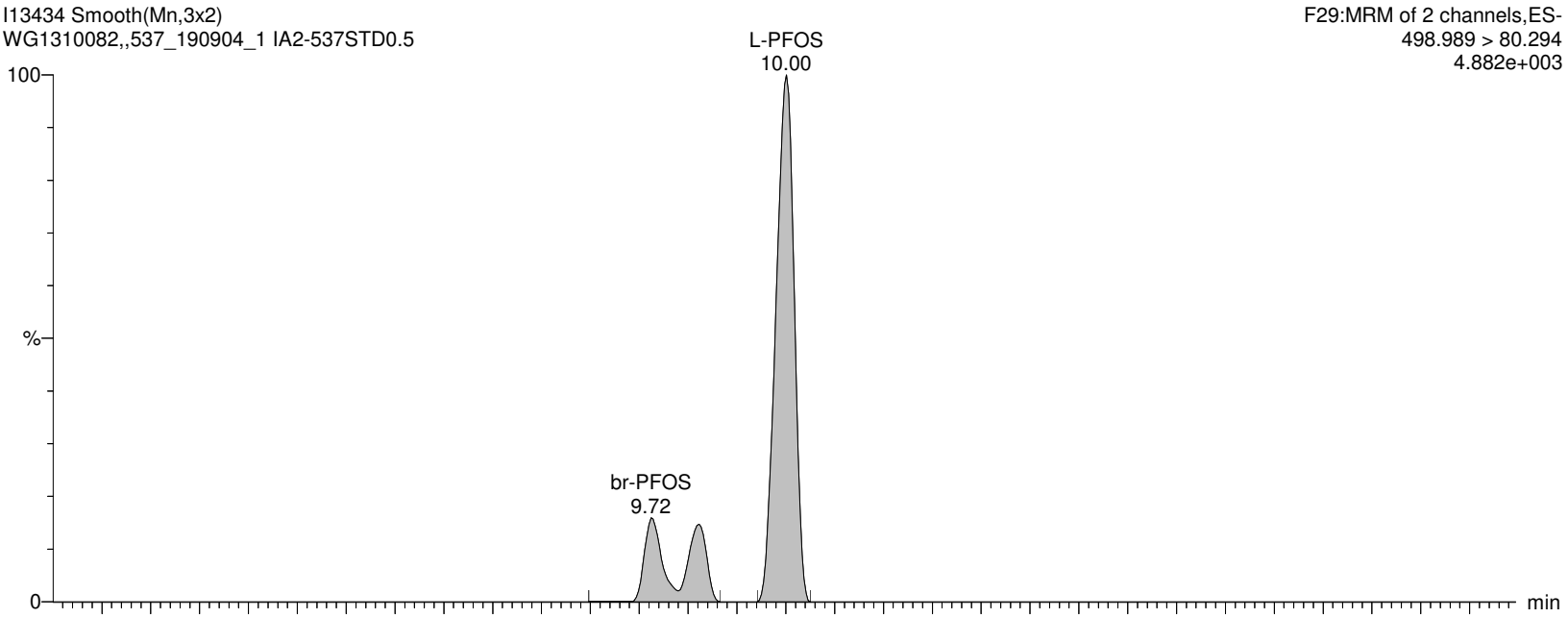

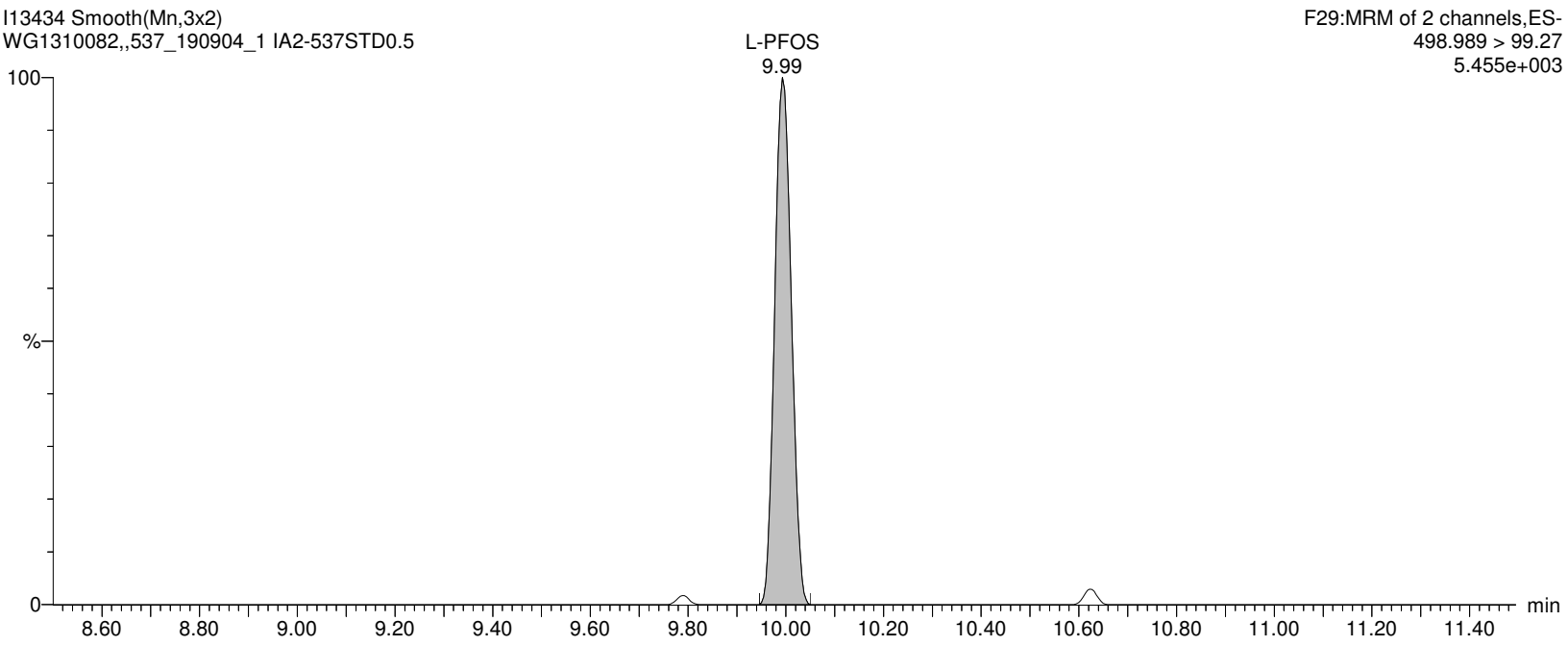

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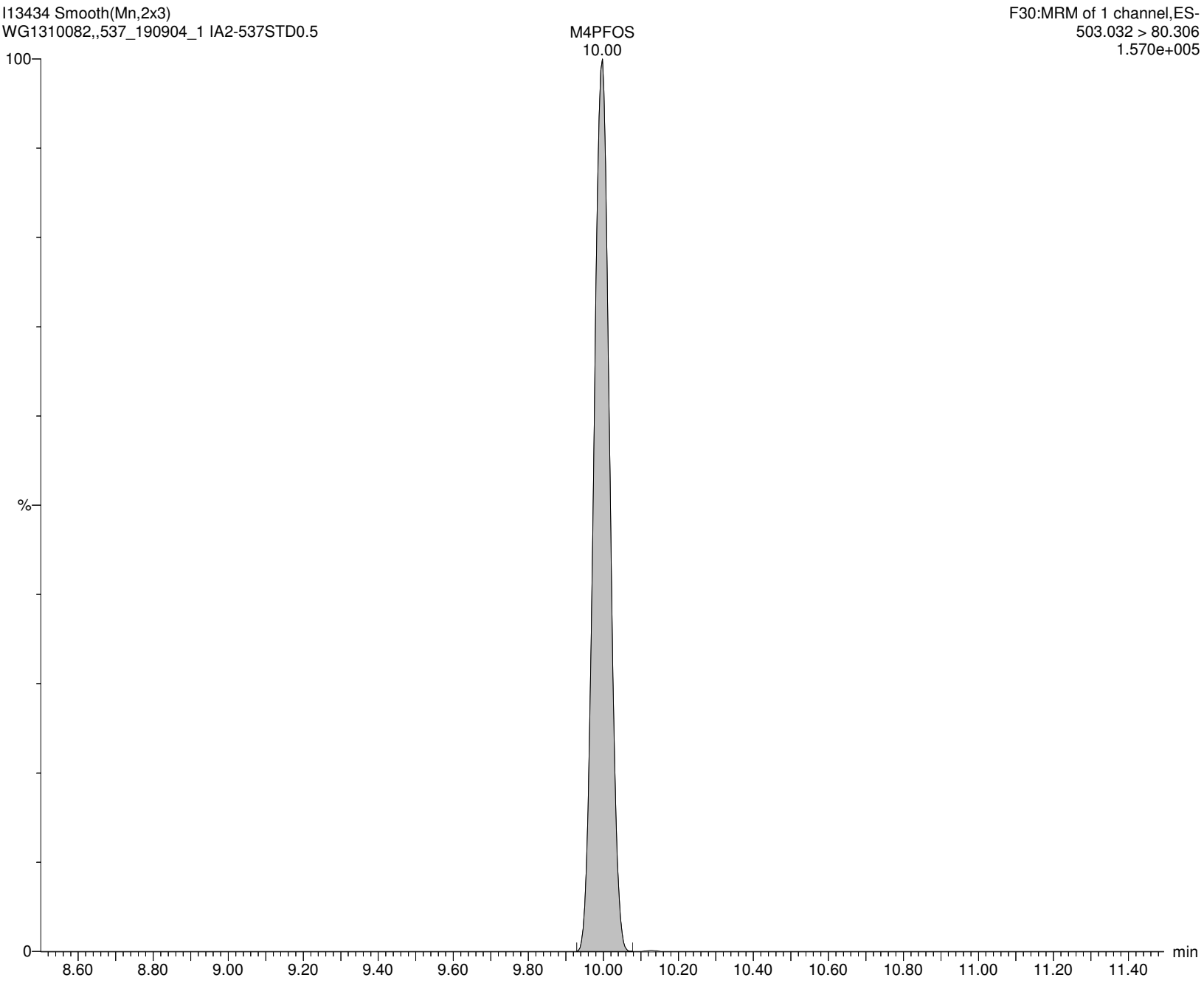

all concentration units in (ng/mL)

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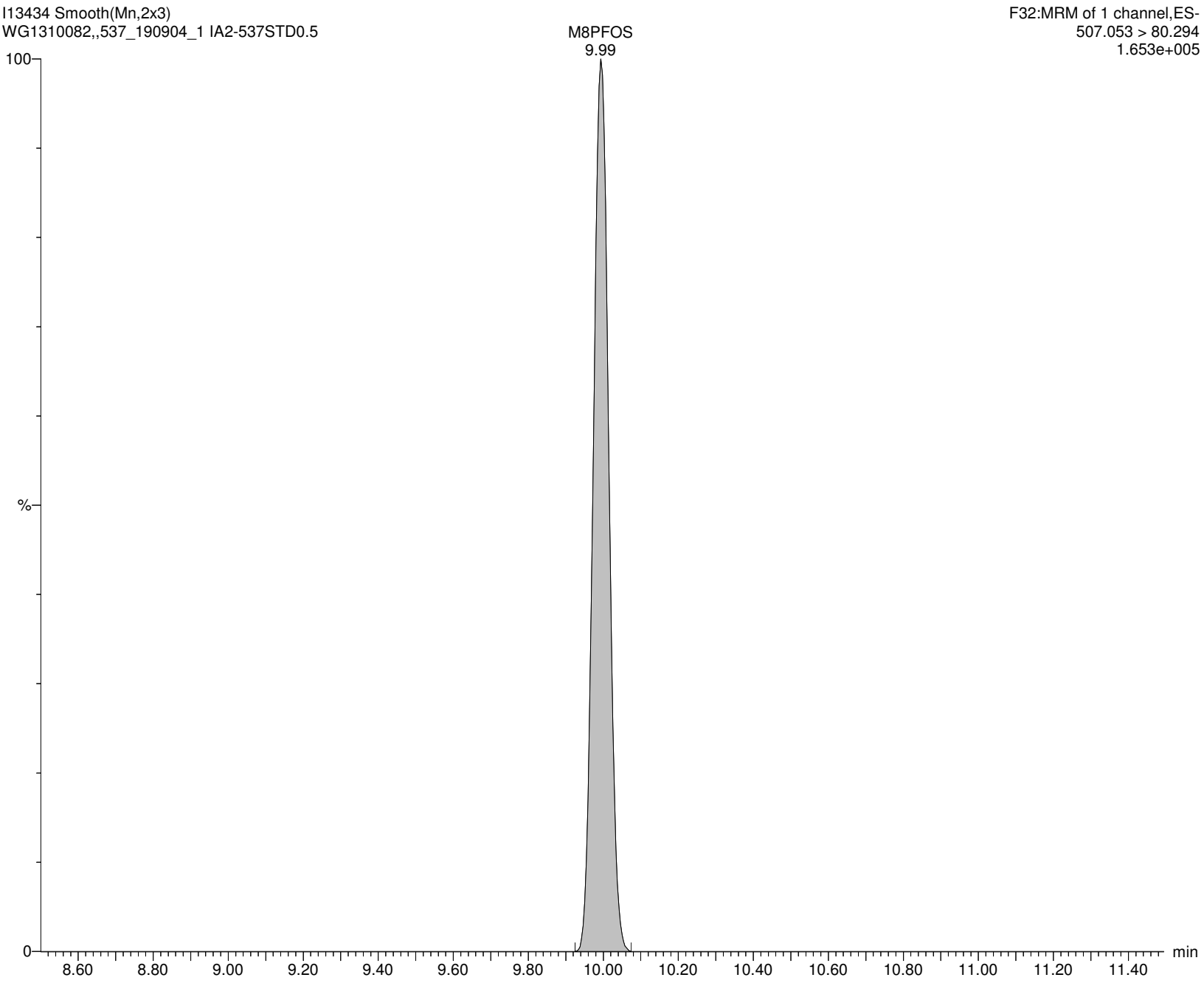

all concentration units in (ng/mL)

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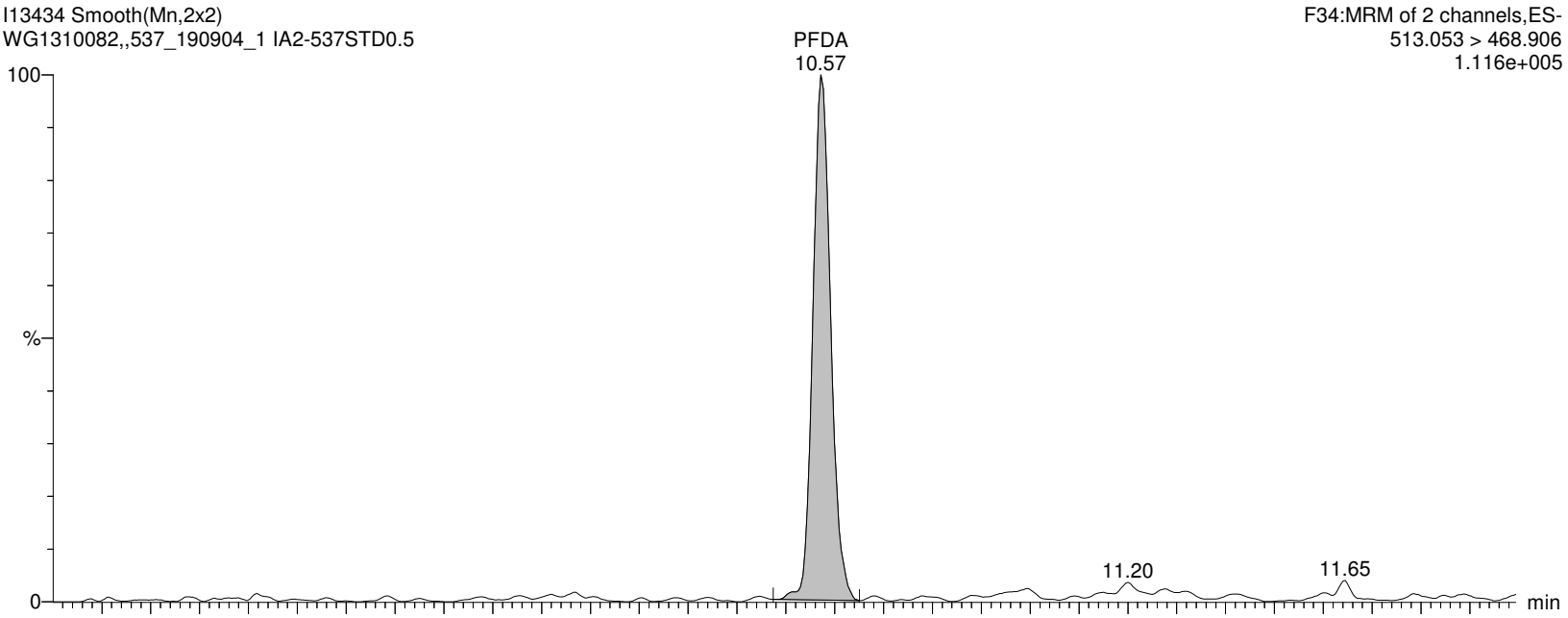

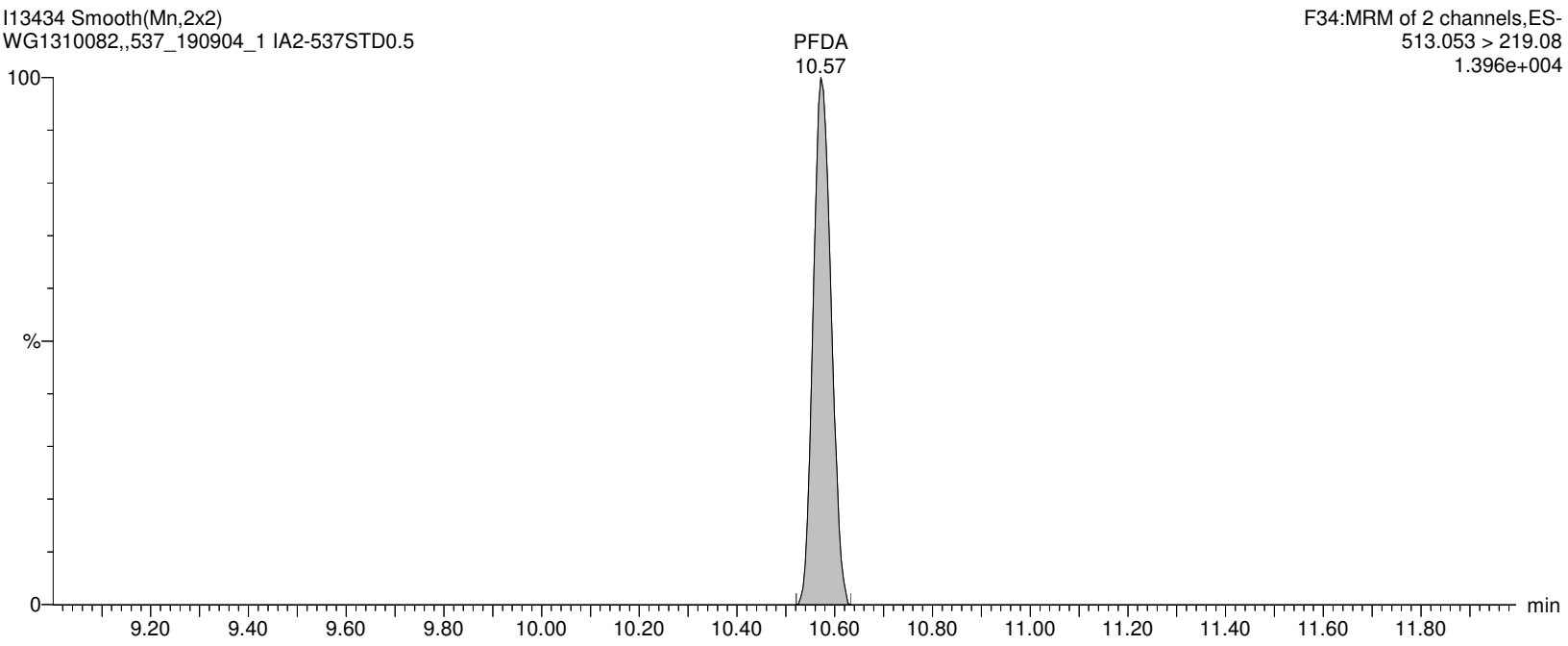

all concentration units in (ng/mL)

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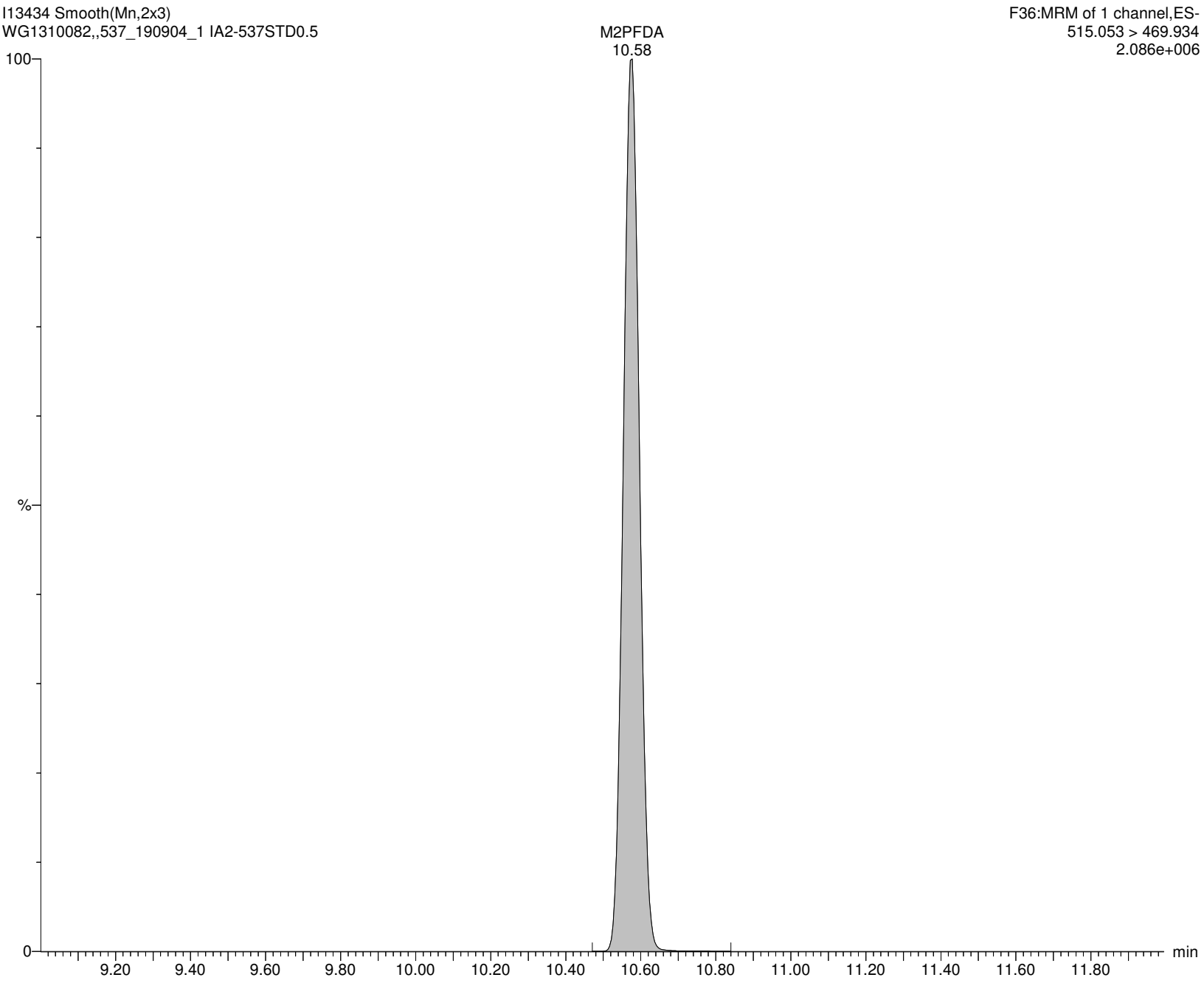

all concentration units in (ng/mL)

Alpha Analytical Inc.
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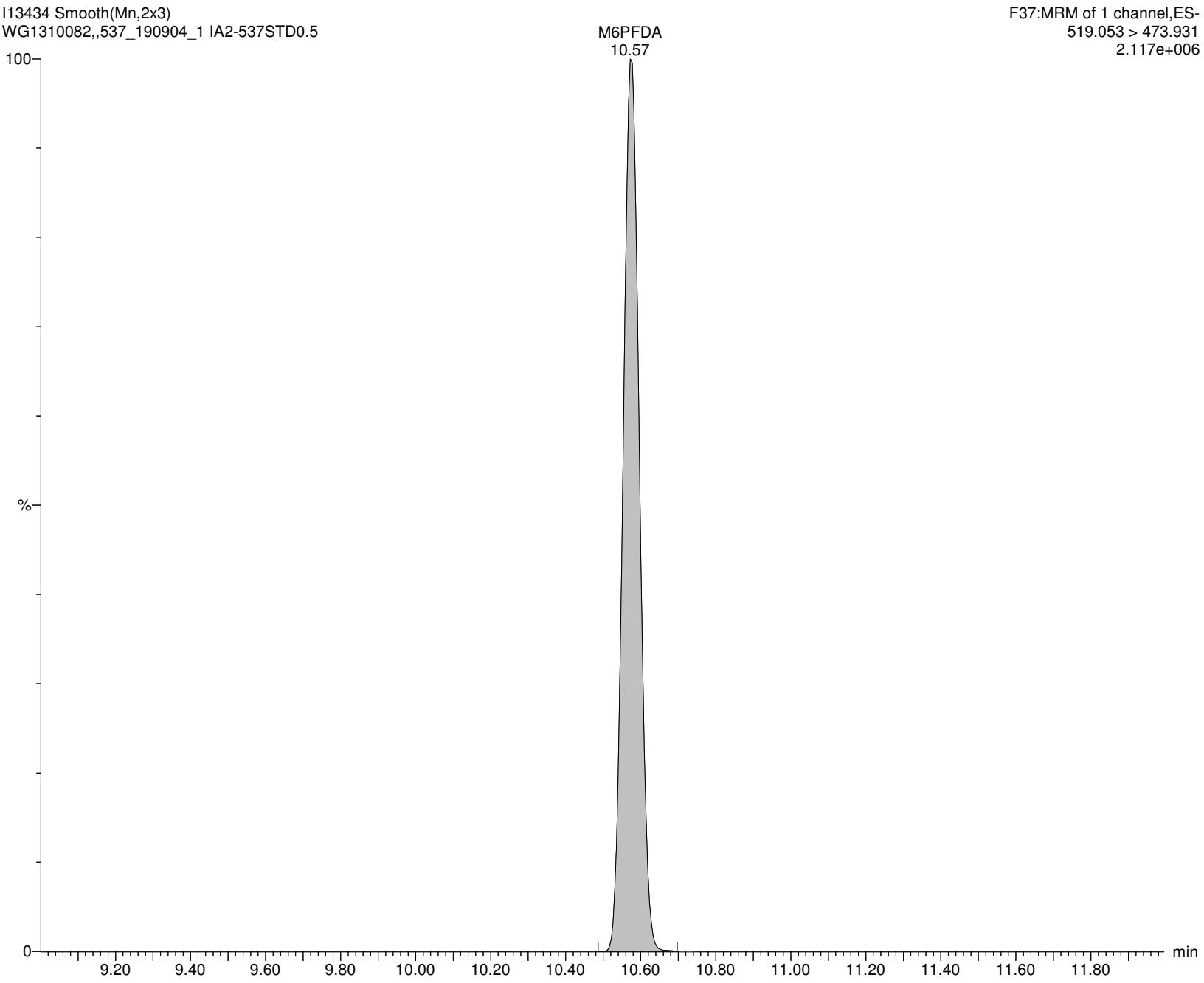

all concentration units in (ng/mL)

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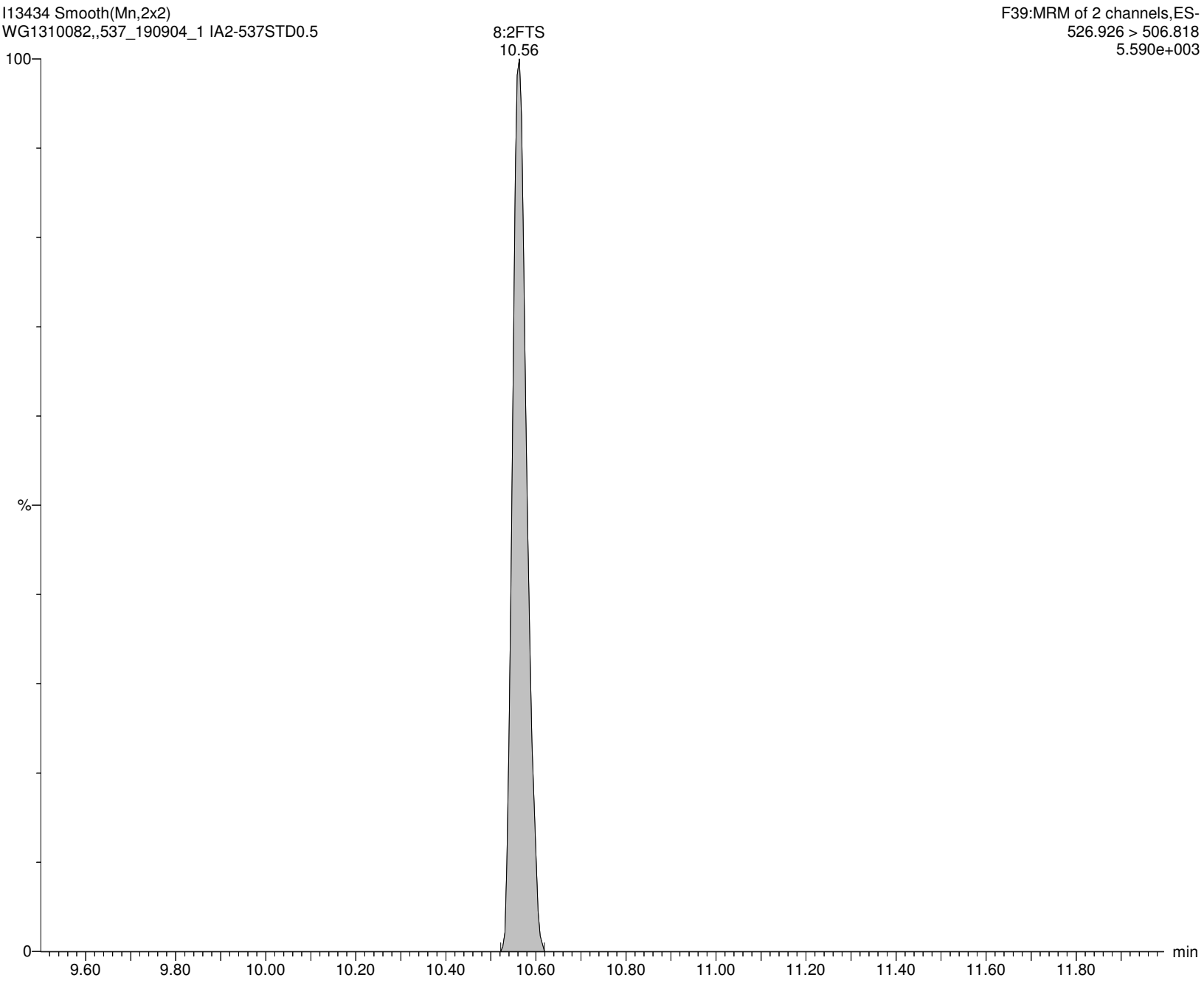

all concentration units in (ng/mL)

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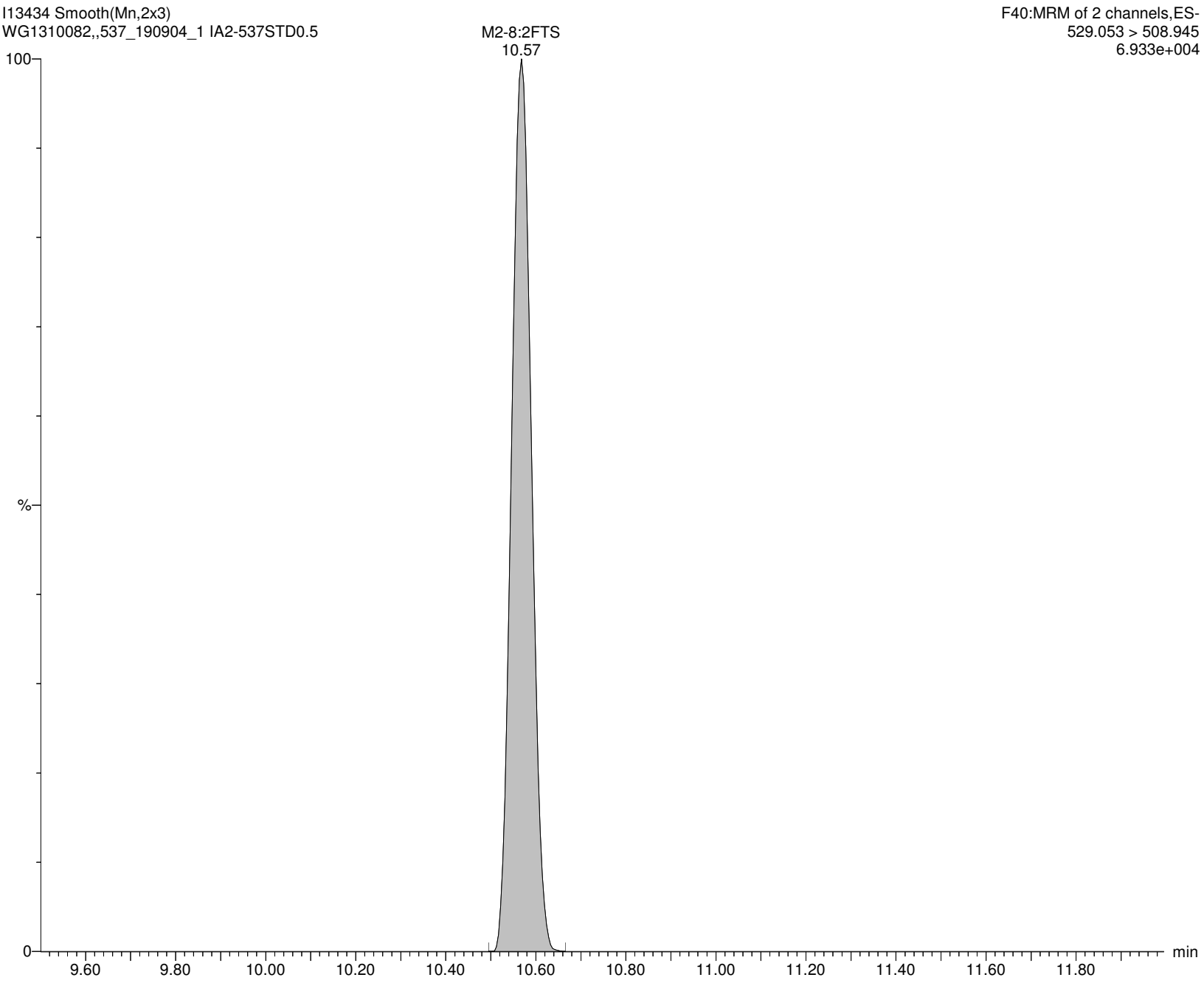

all concentration units in (ng/mL)

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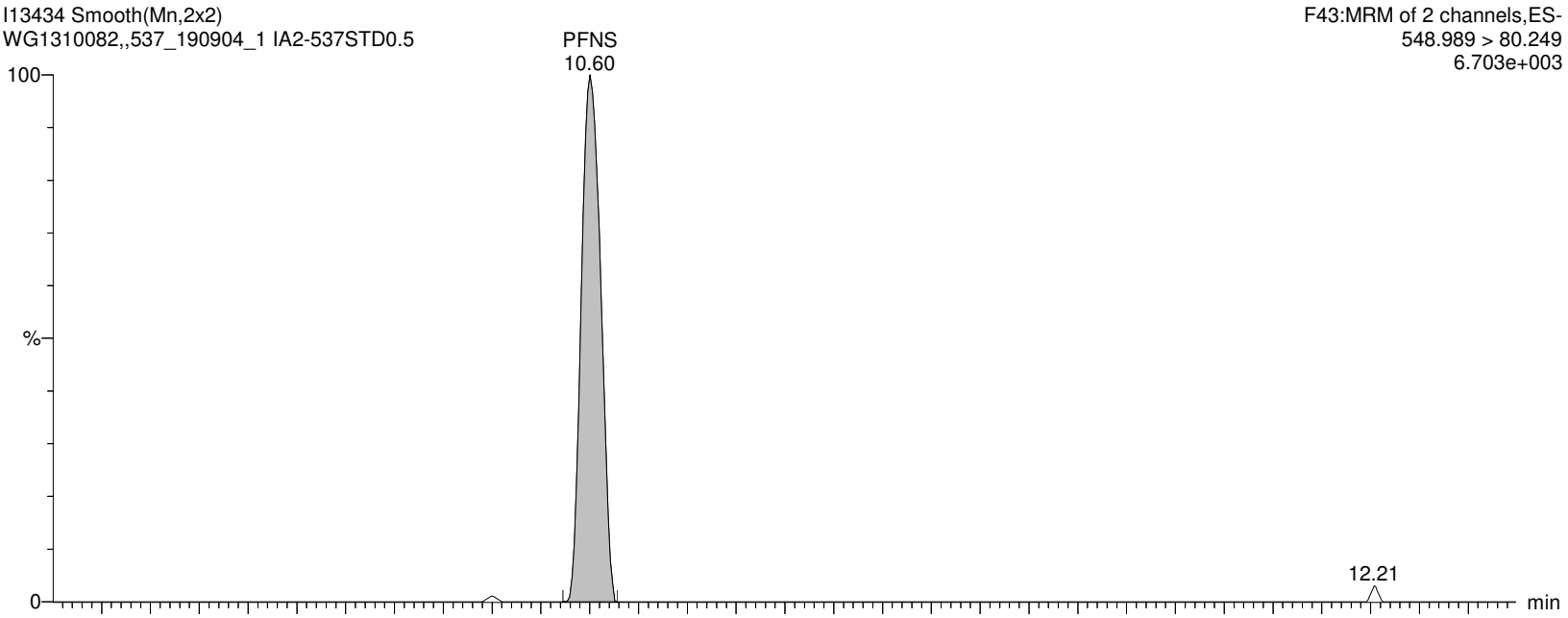

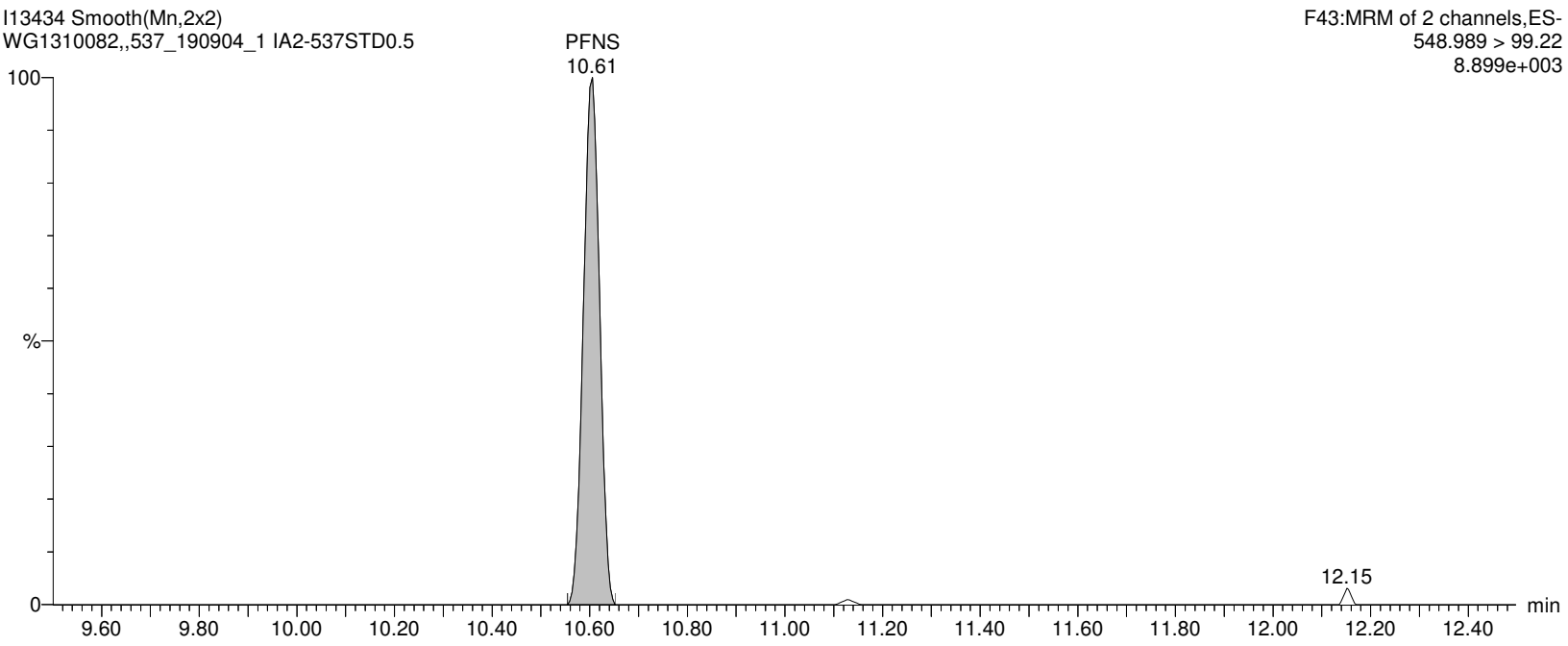

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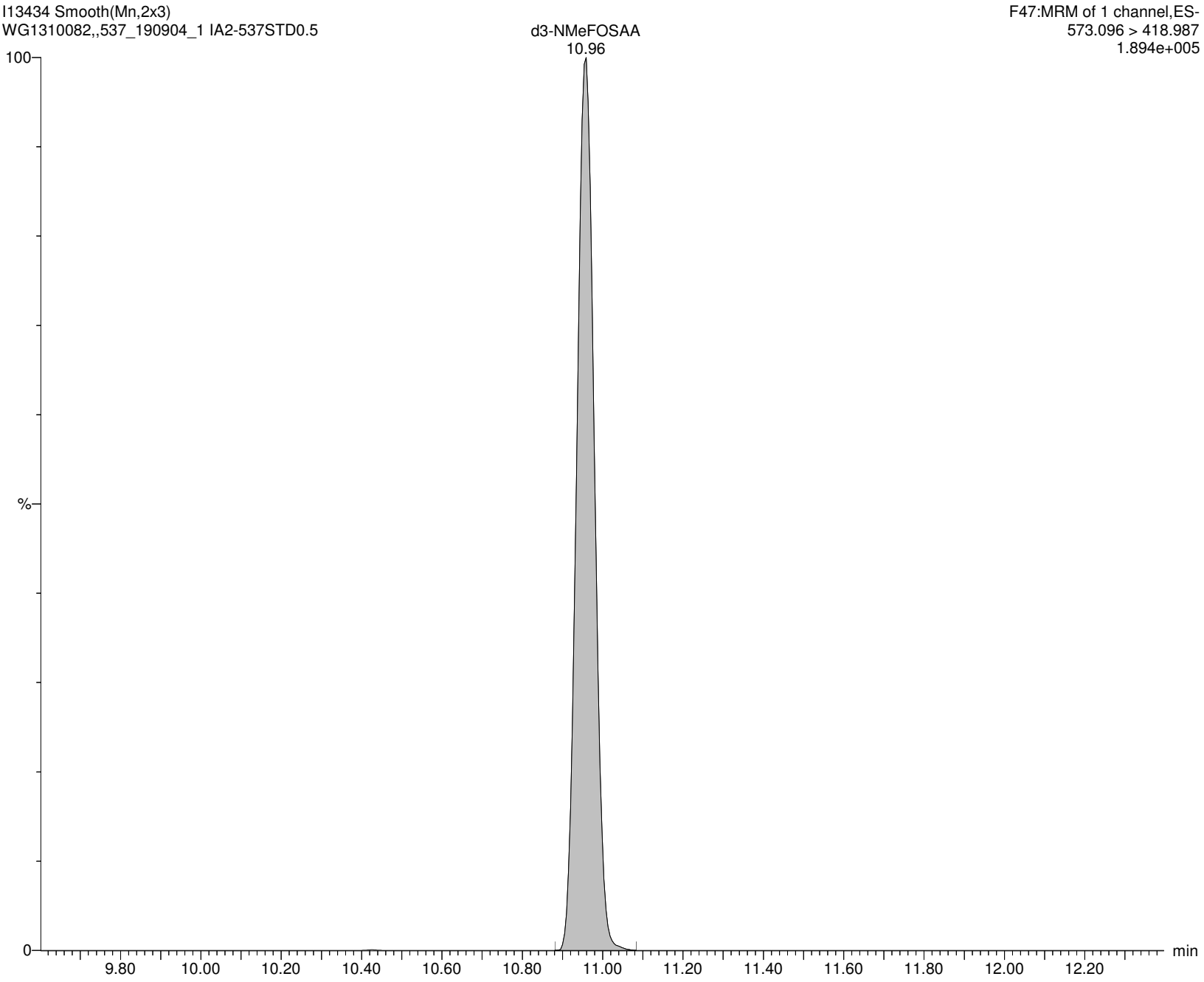

all concentration units in (ng/mL)

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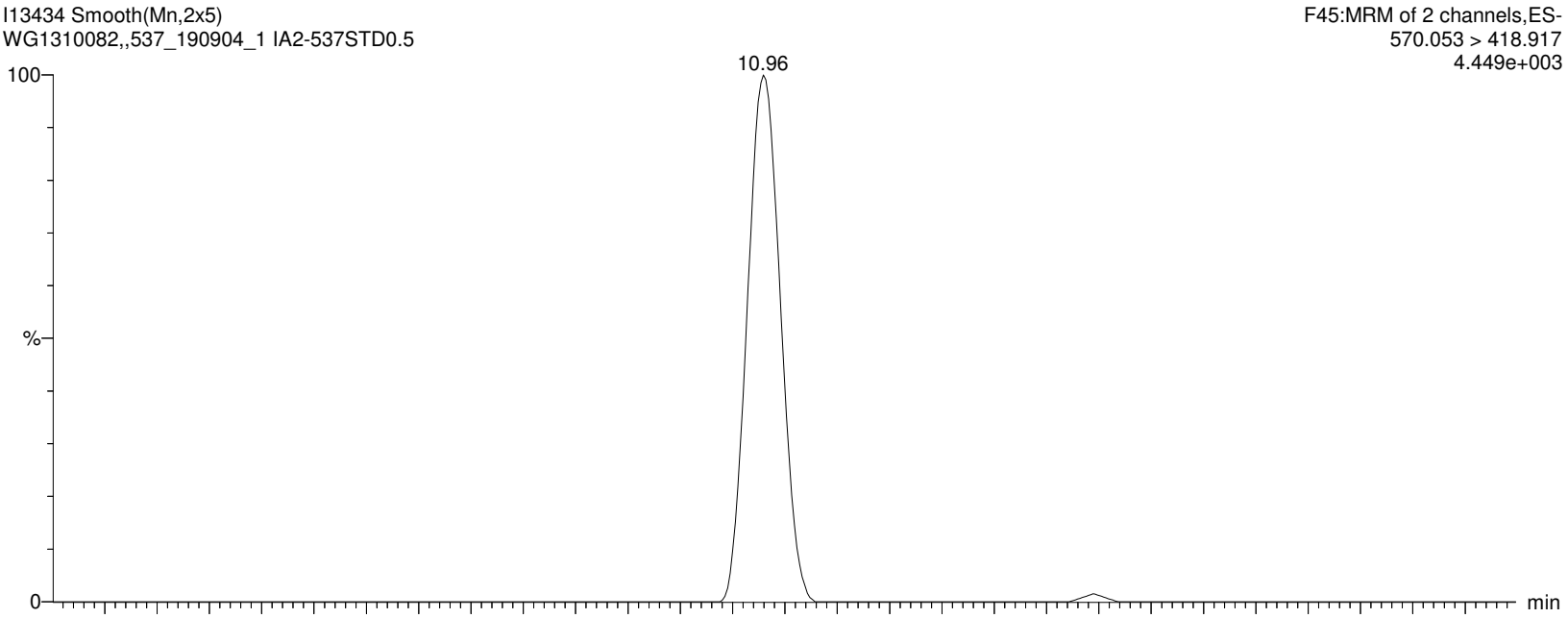

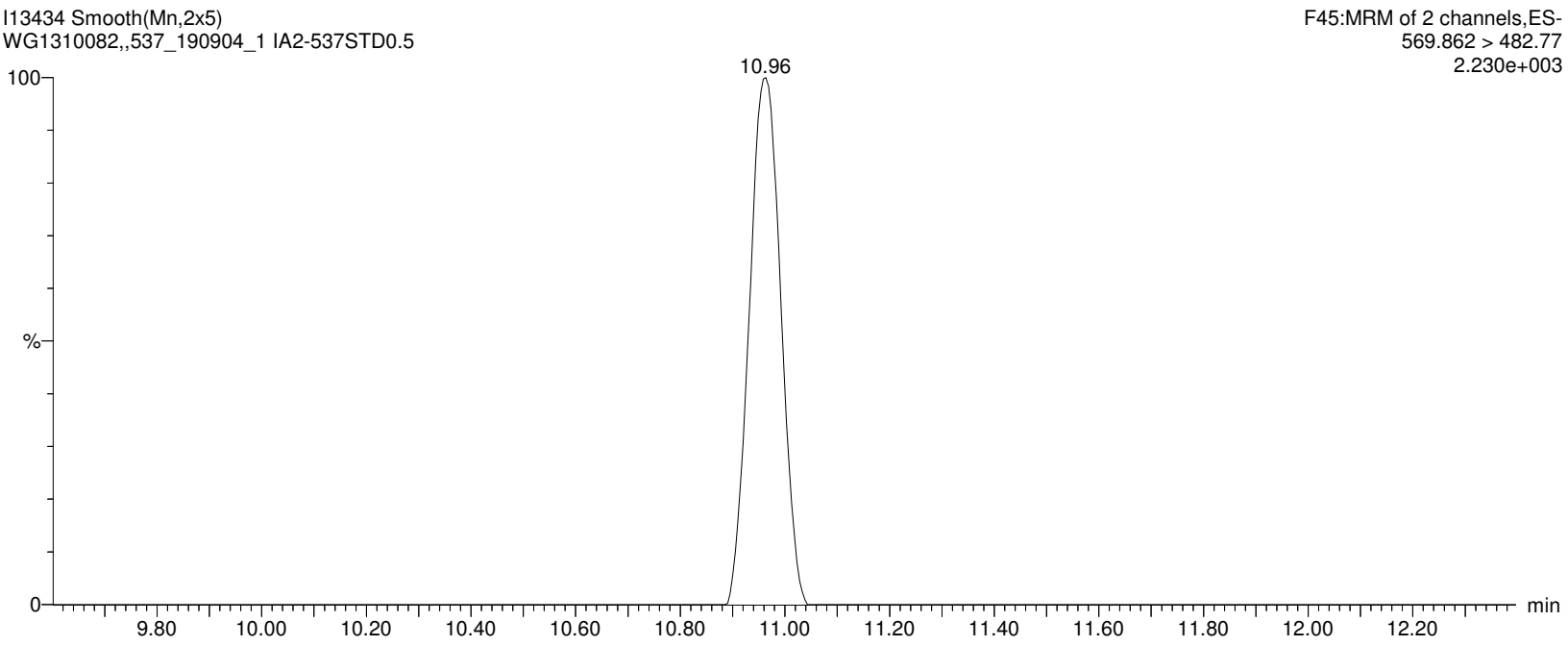

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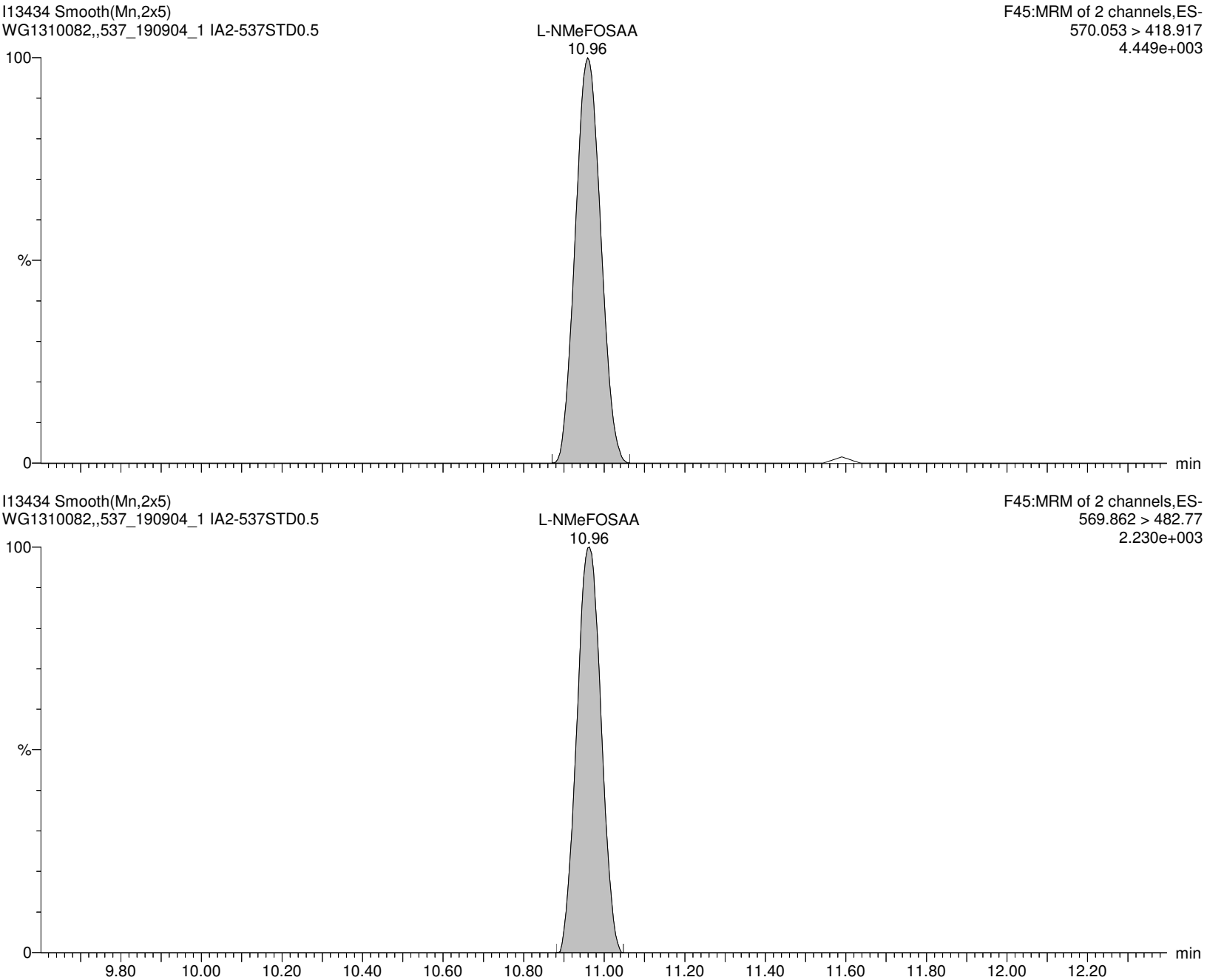

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:48 Eastern Standard Time

Name: I13434
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Date: 18-Nov-2019
Time: 10:24:43
Description: WG1310082,,537_190904_1
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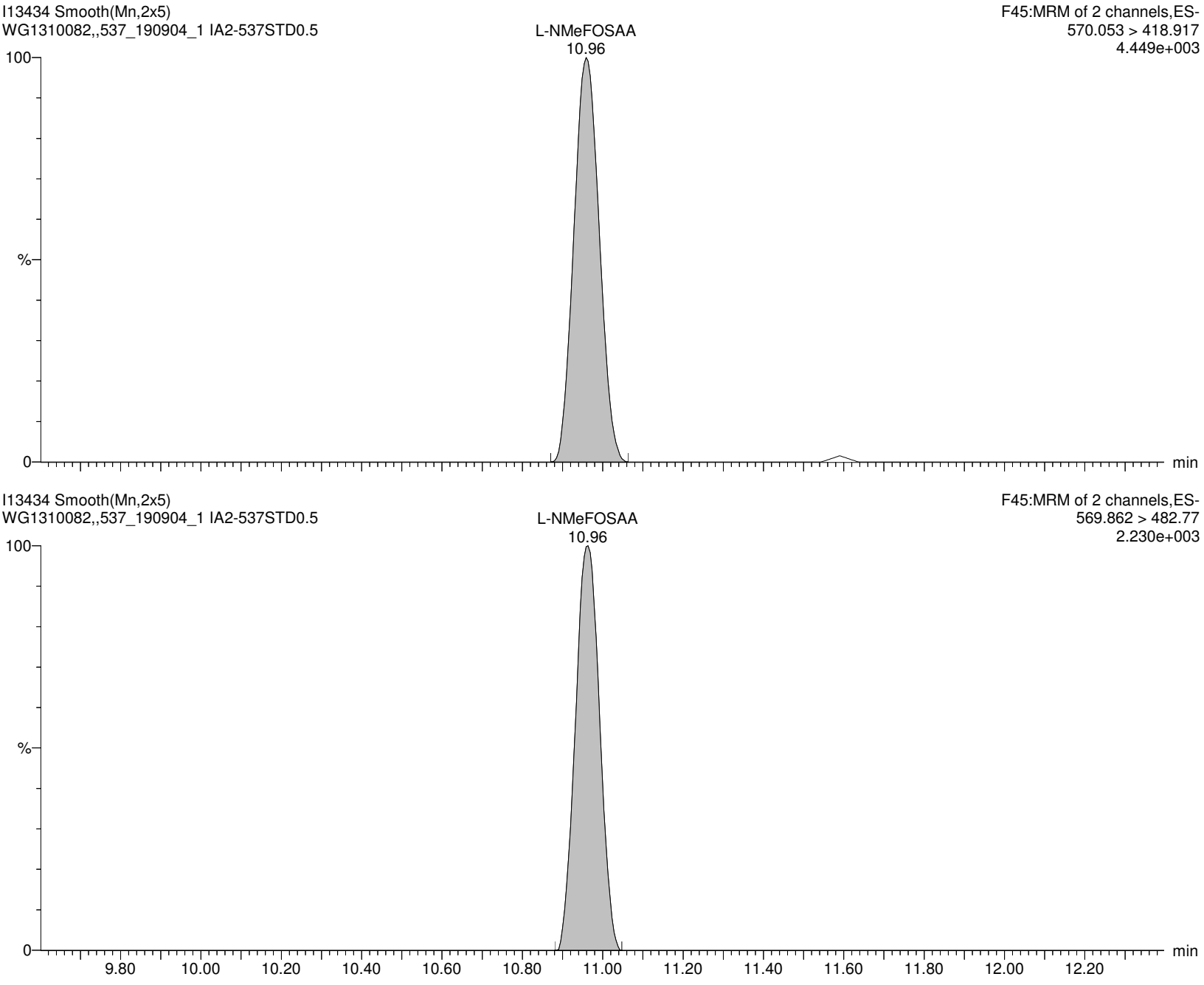

all concentration units in (ng/mL)

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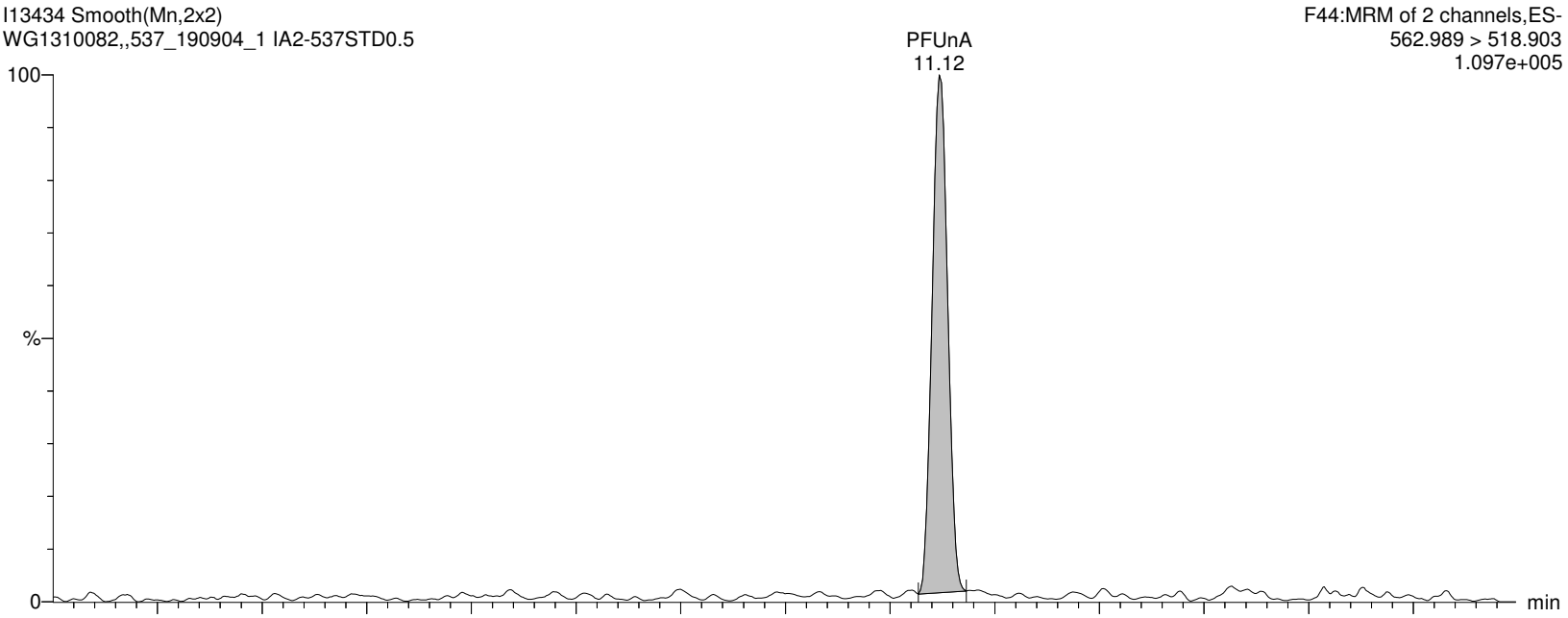

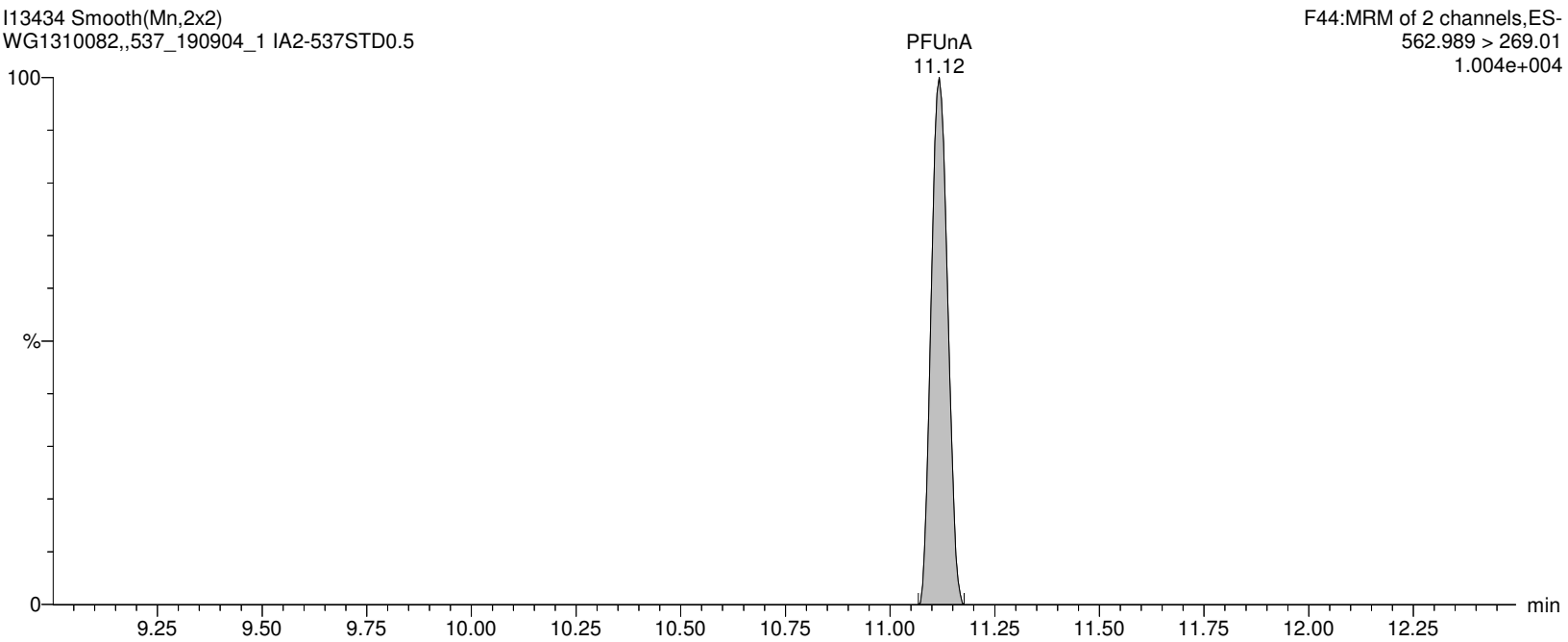

all concentration units in (ng/mL)

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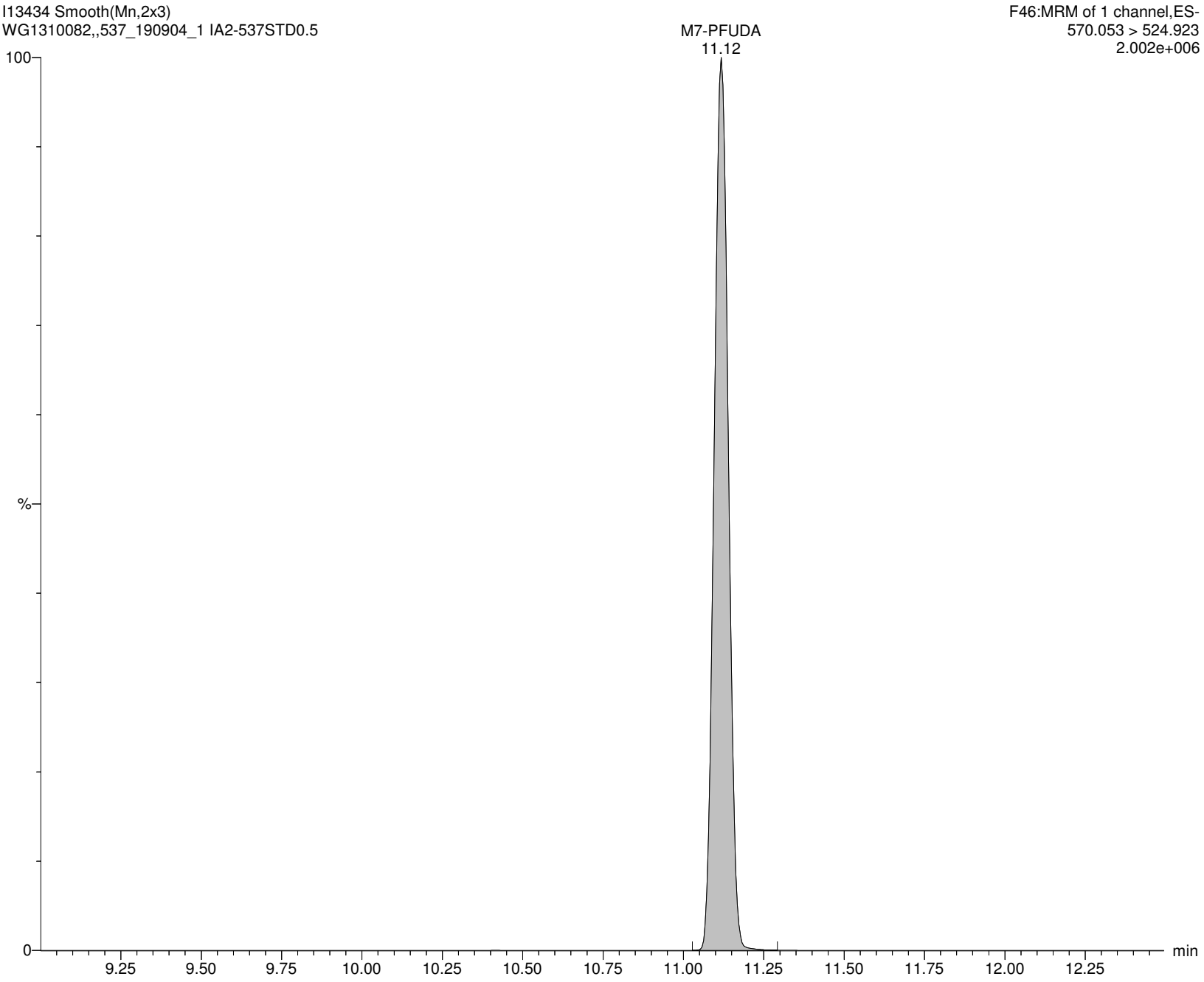

all concentration units in (ng/mL)

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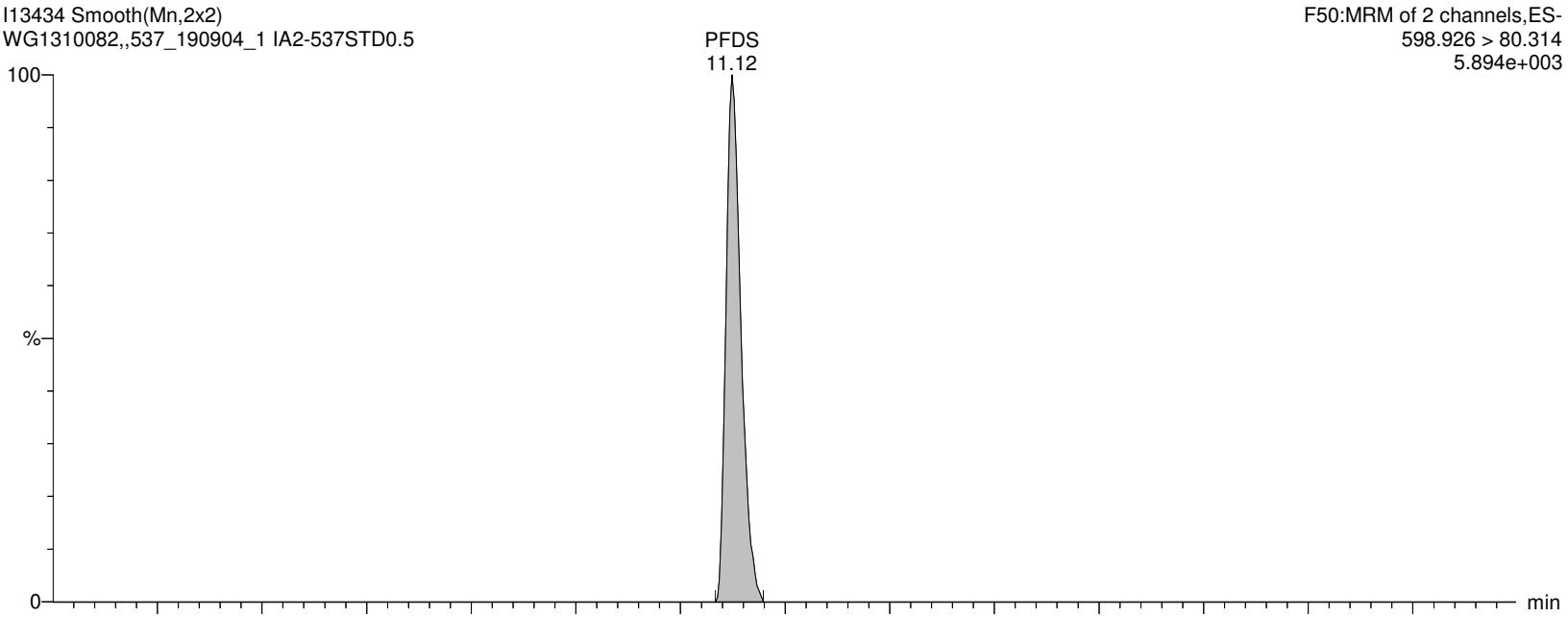

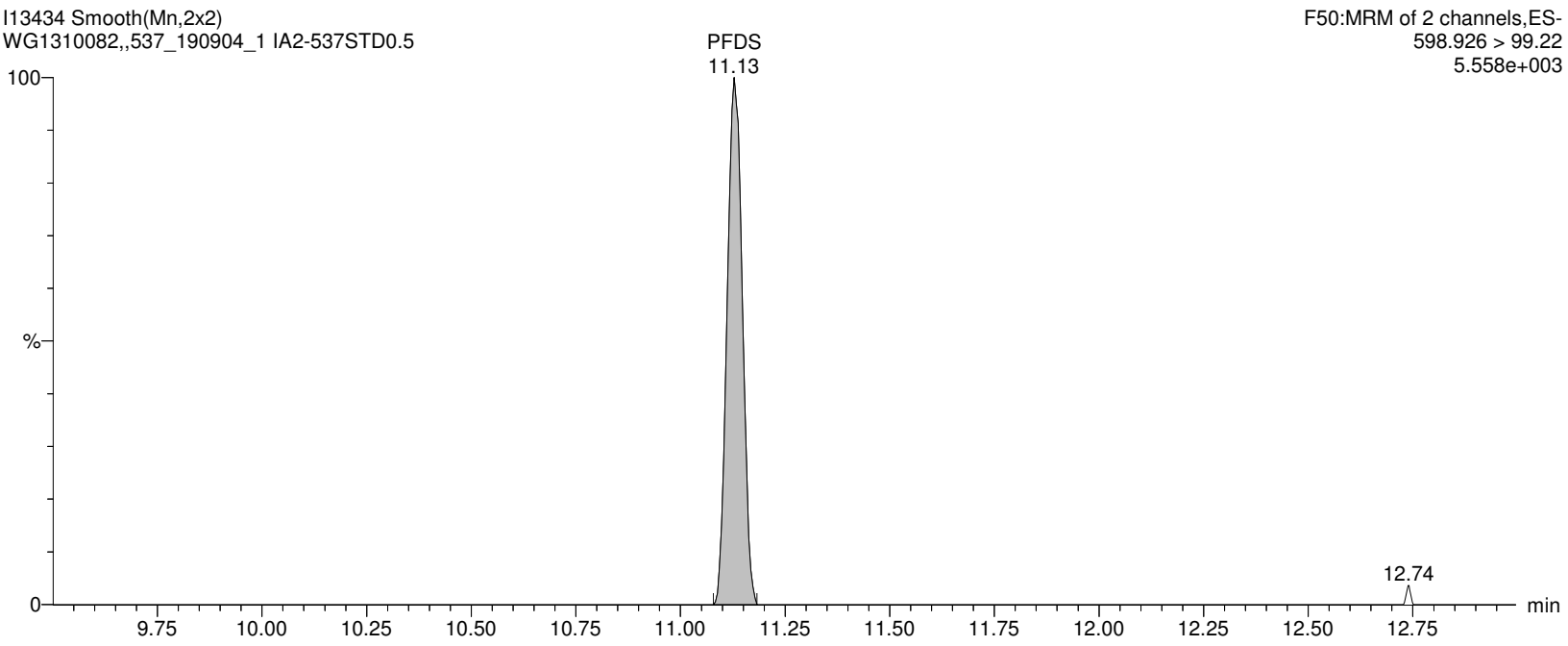

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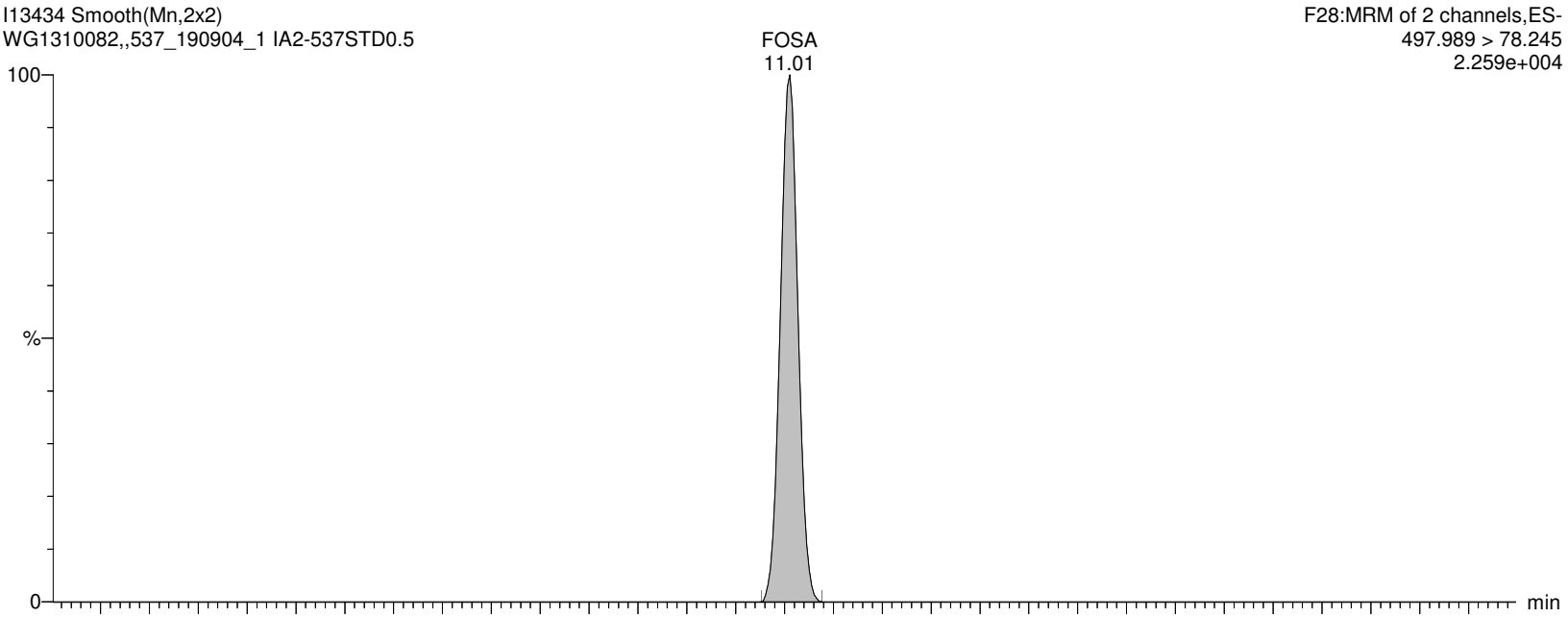

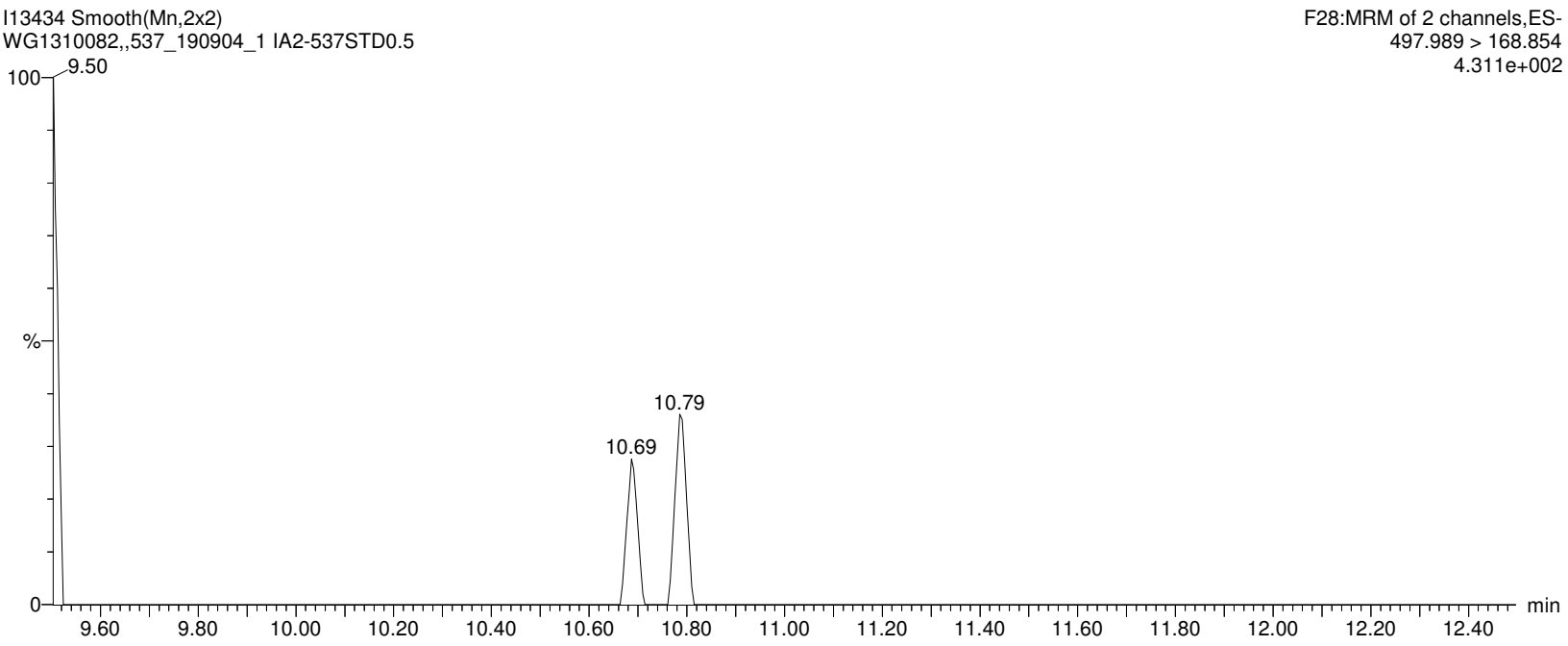

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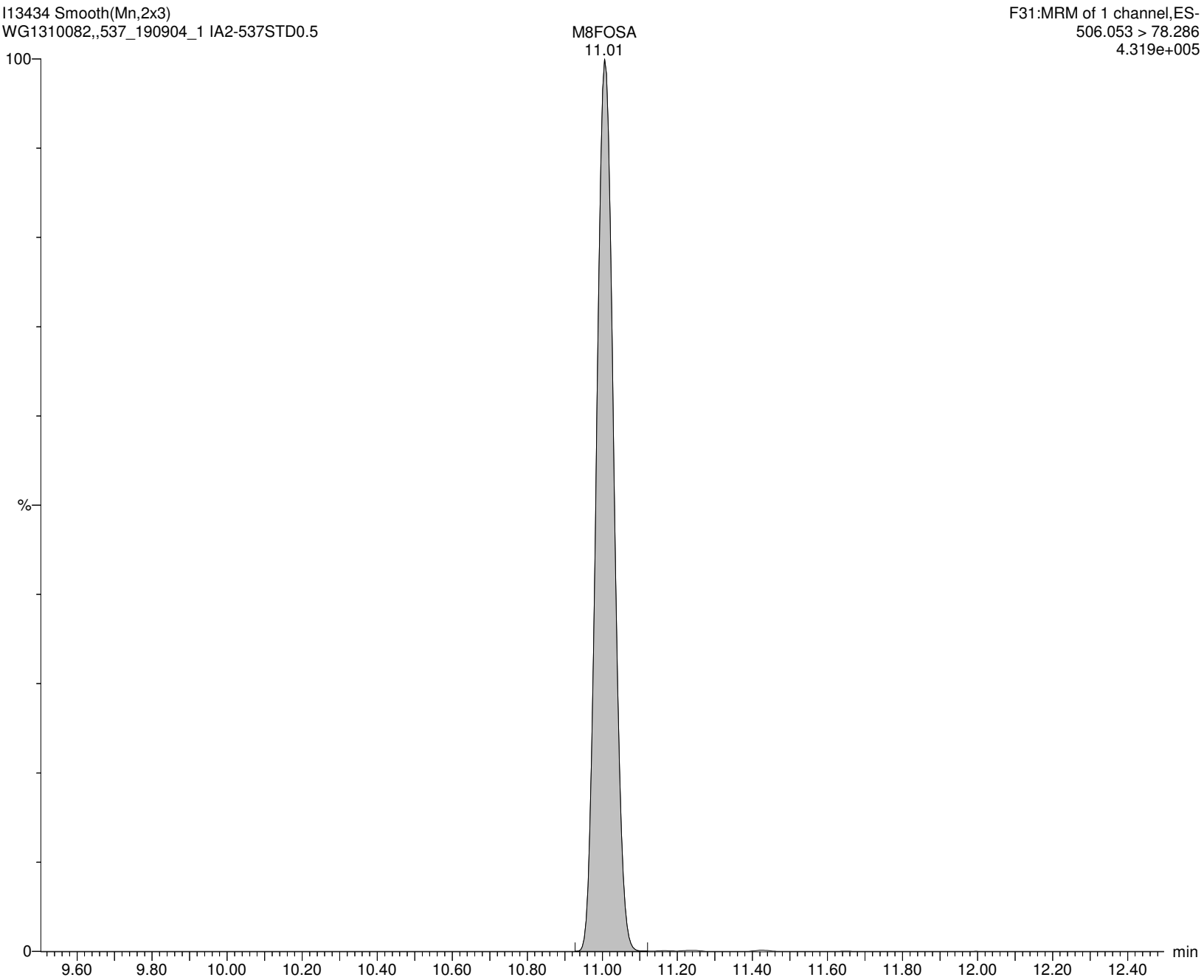

all concentration units in (ng/mL)

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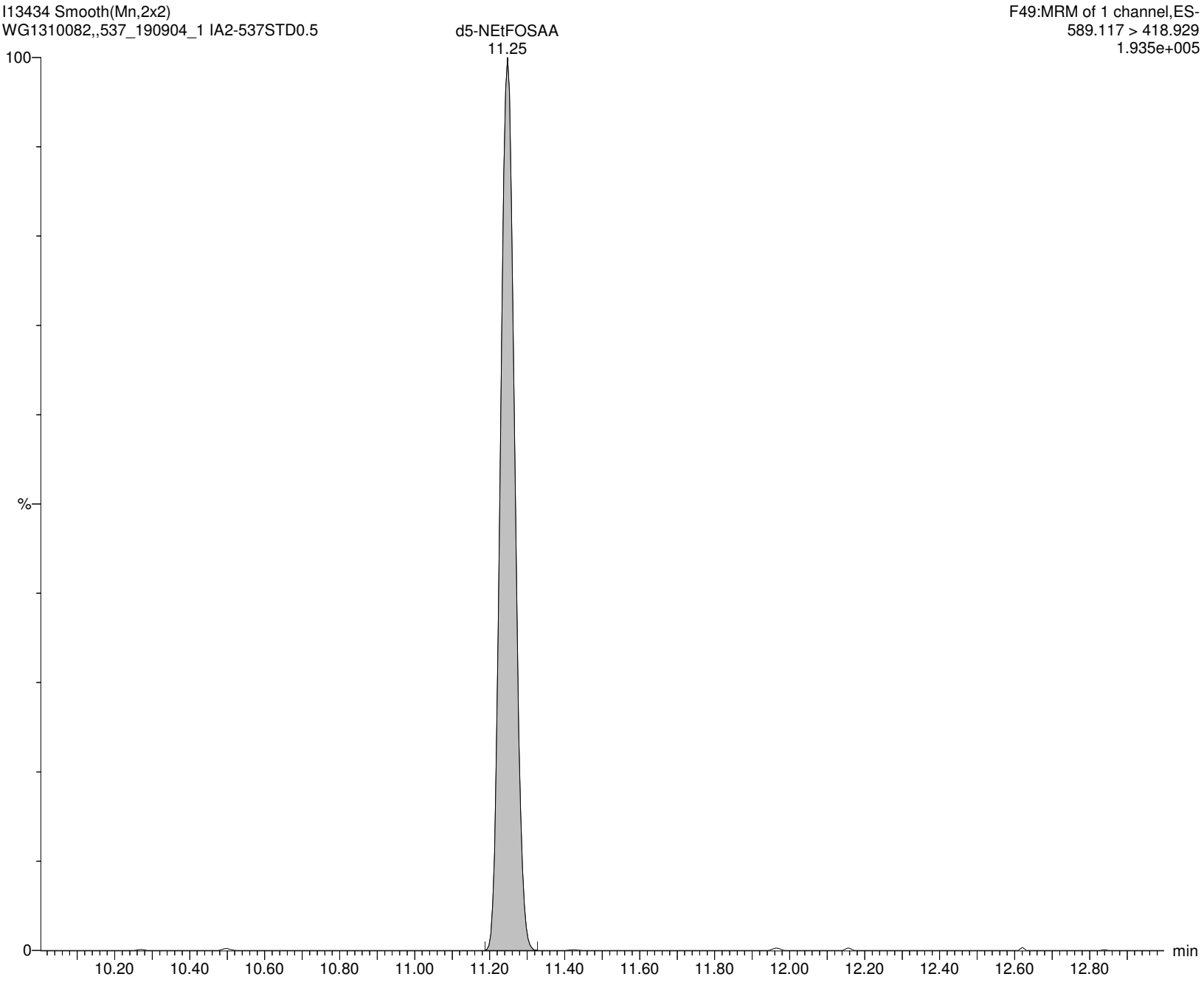

all concentration units in (ng/mL)

Alpha Analytical Inc.
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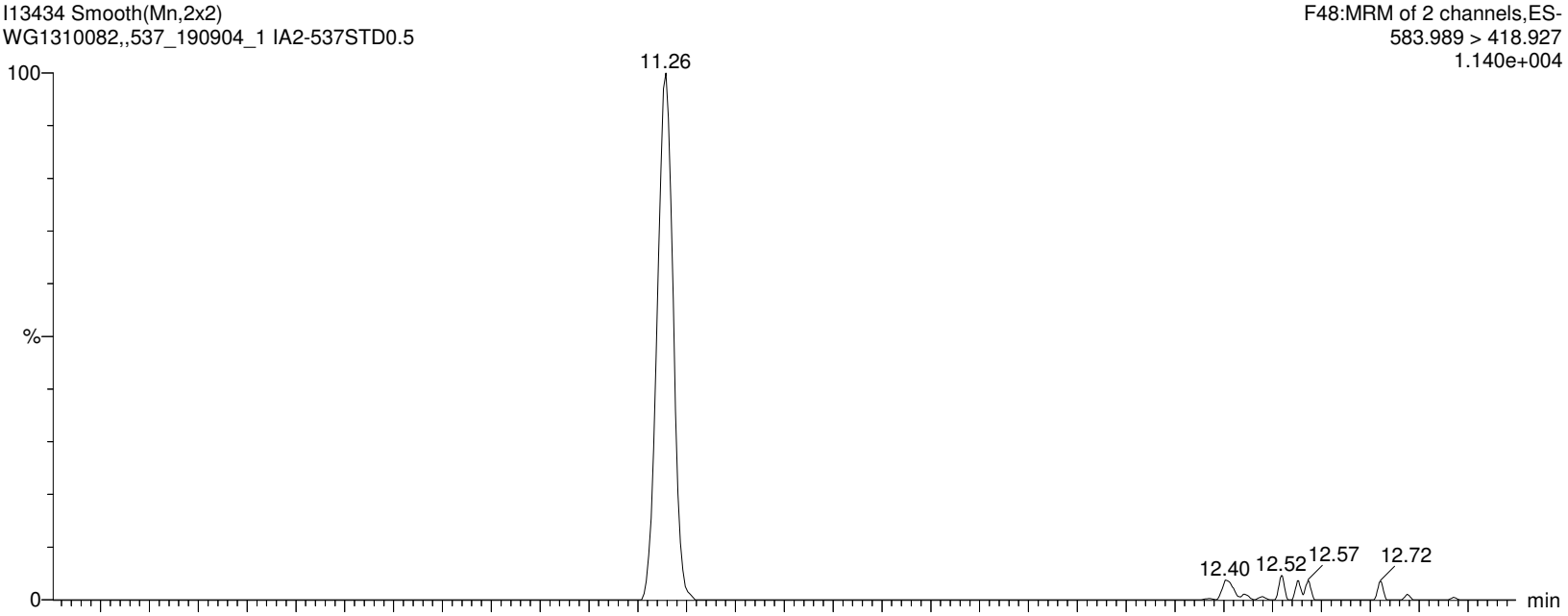

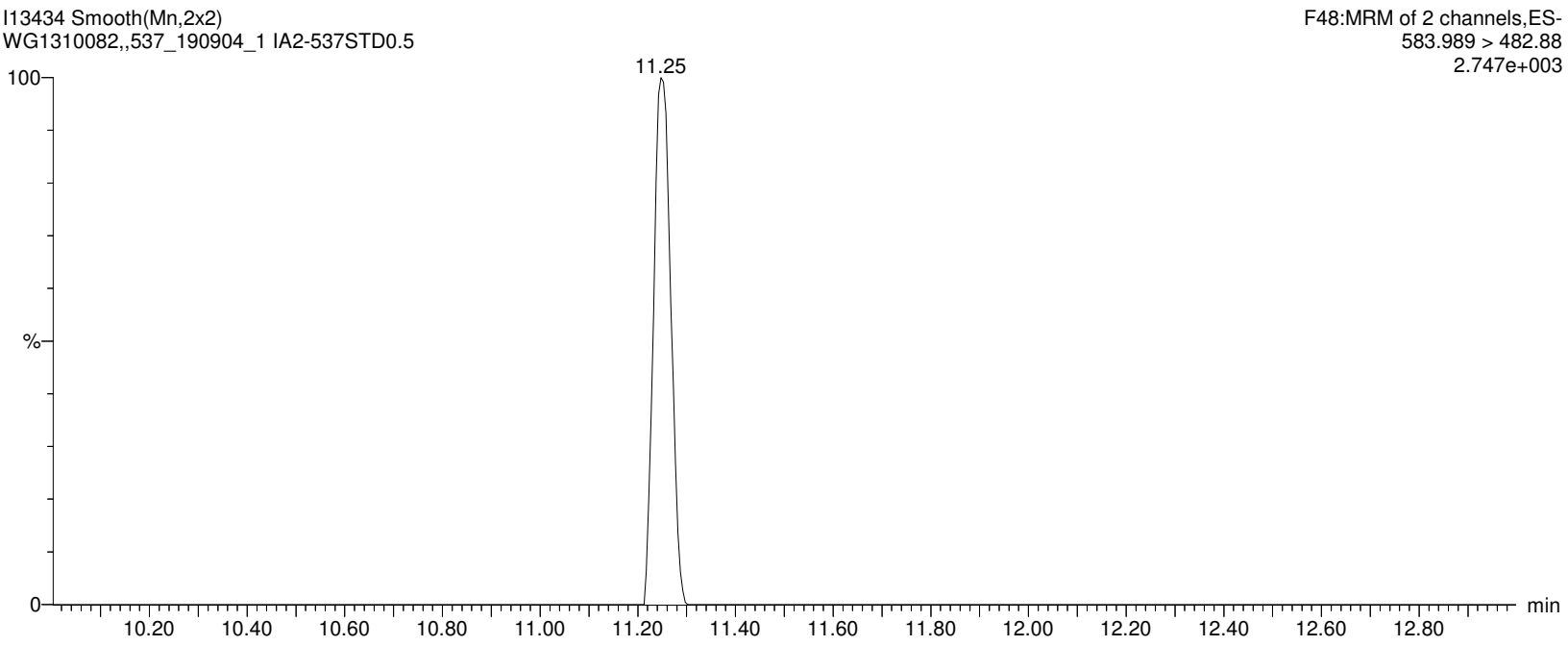

all concentration units in (ng/mL)

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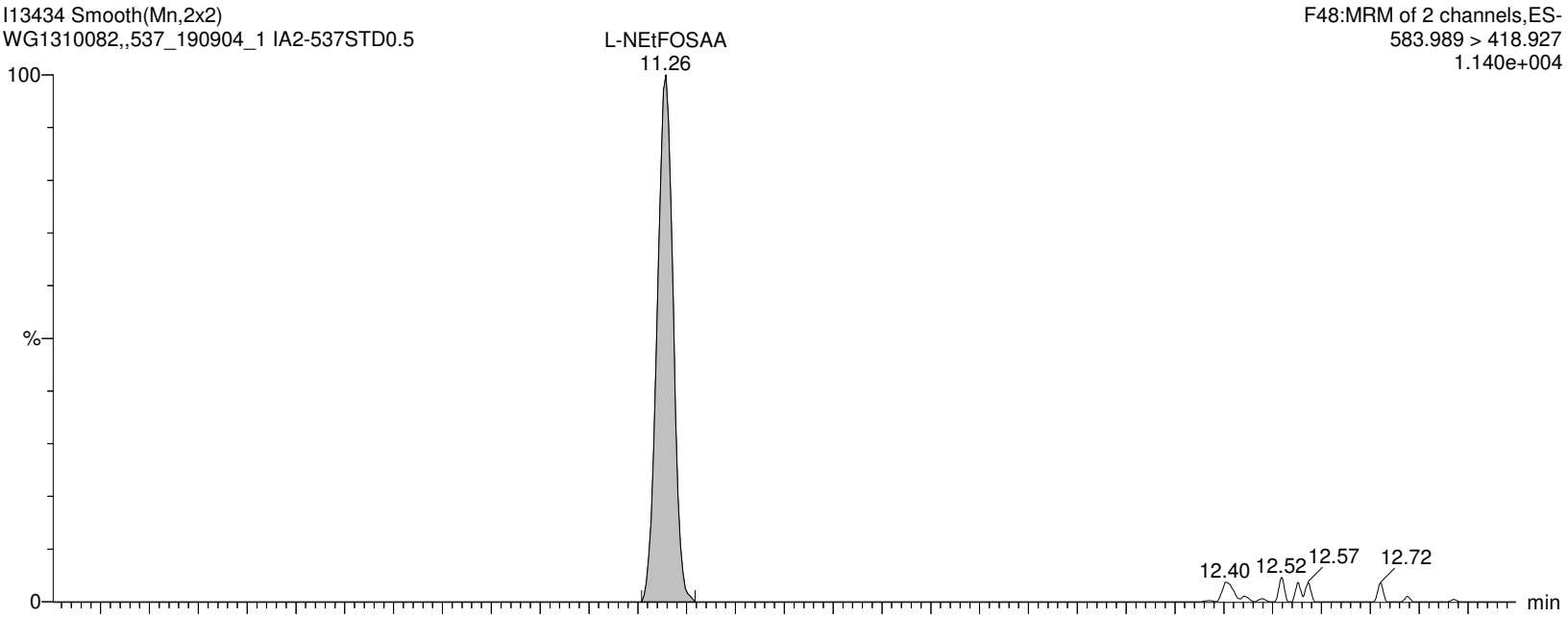

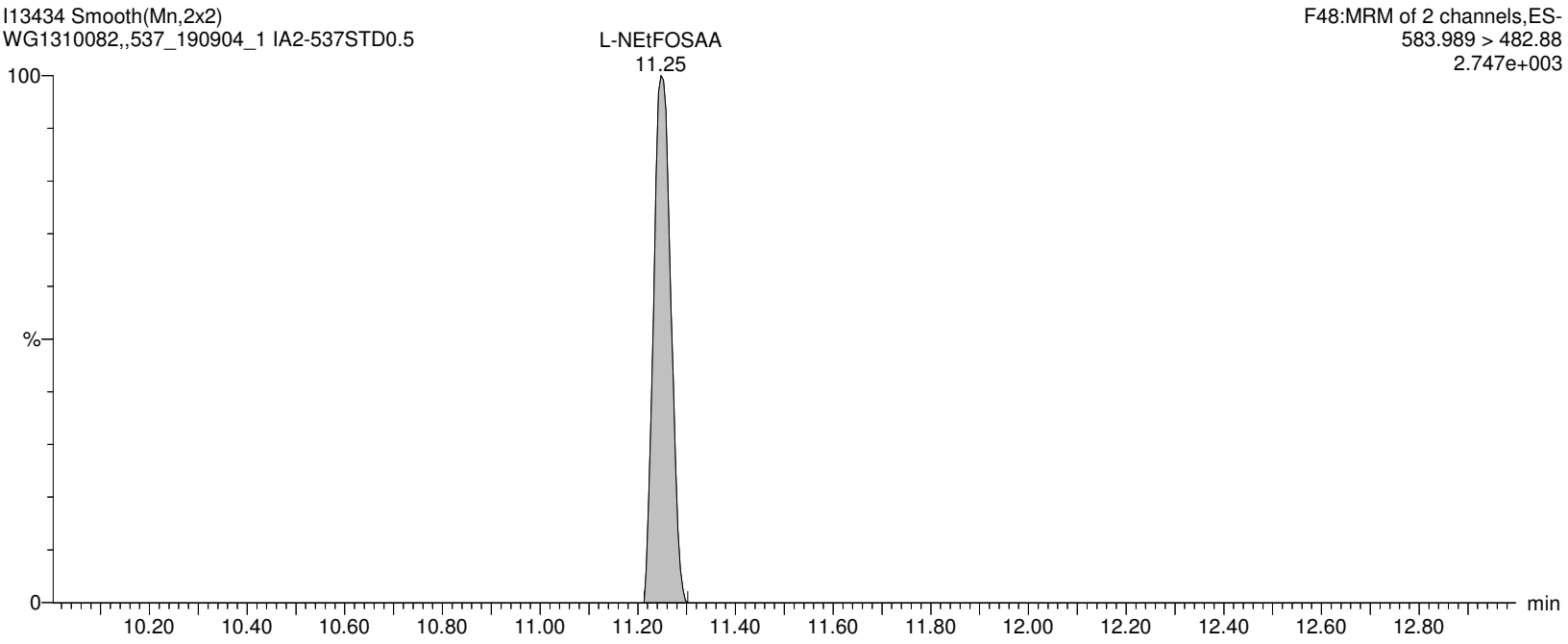

all concentration units in (ng/mL)

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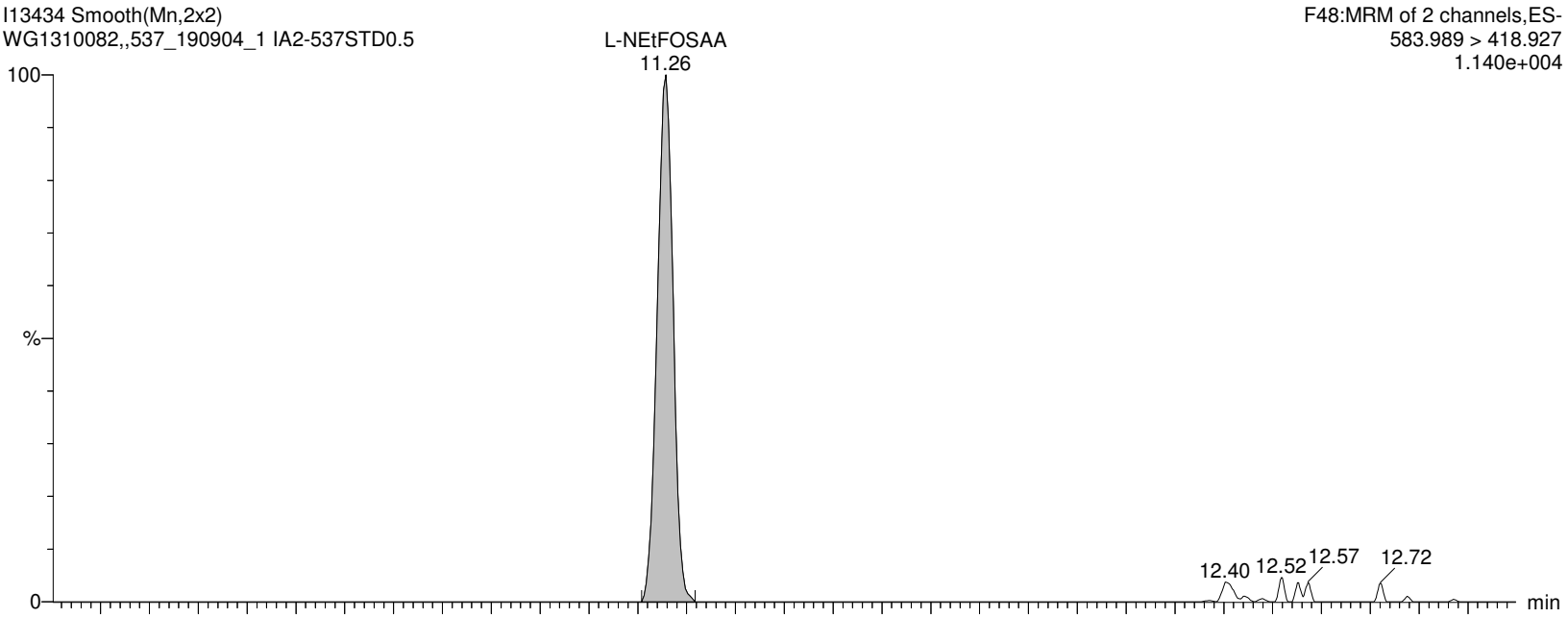

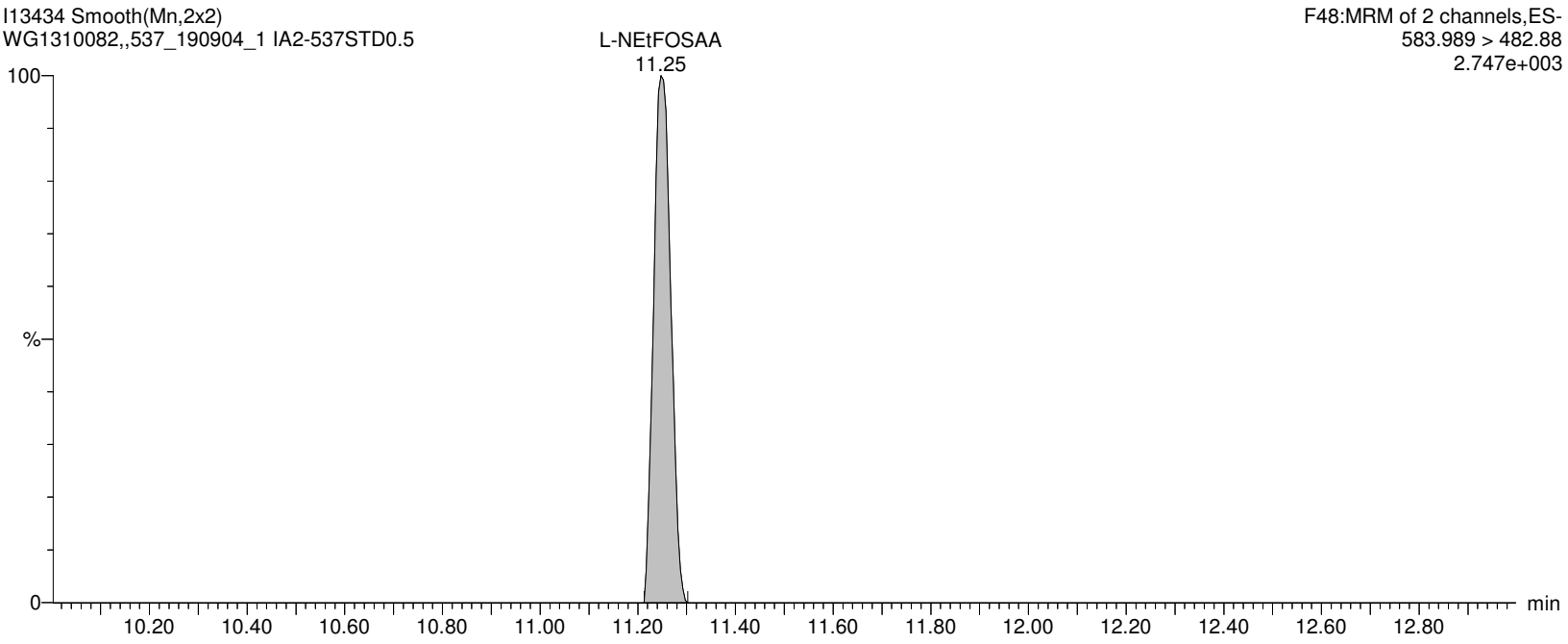

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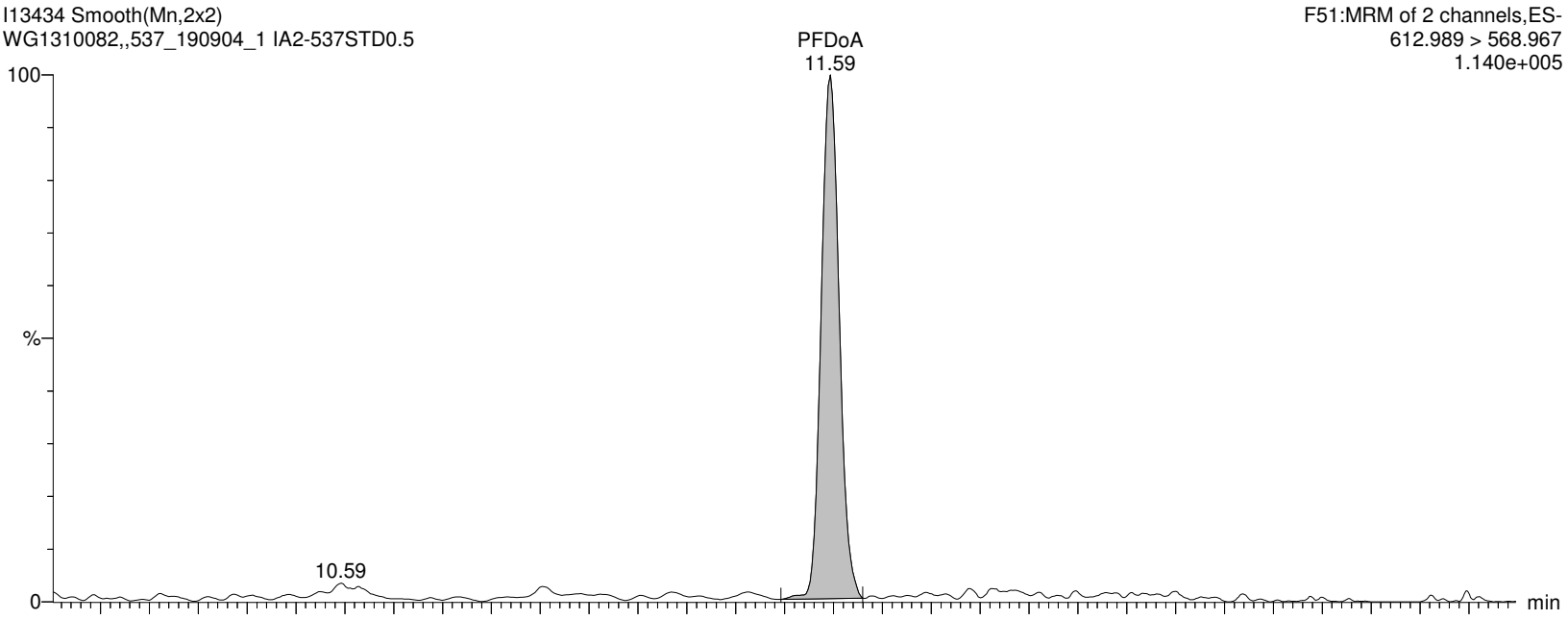

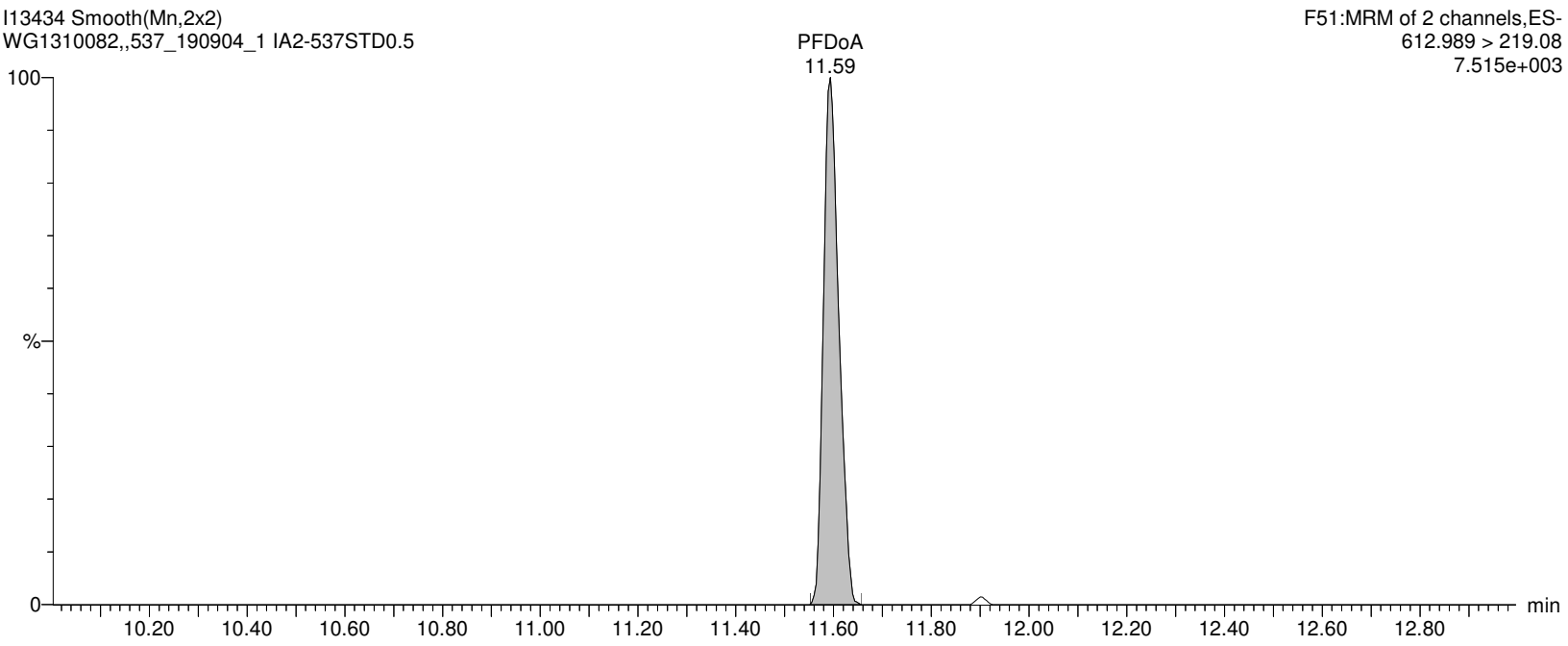

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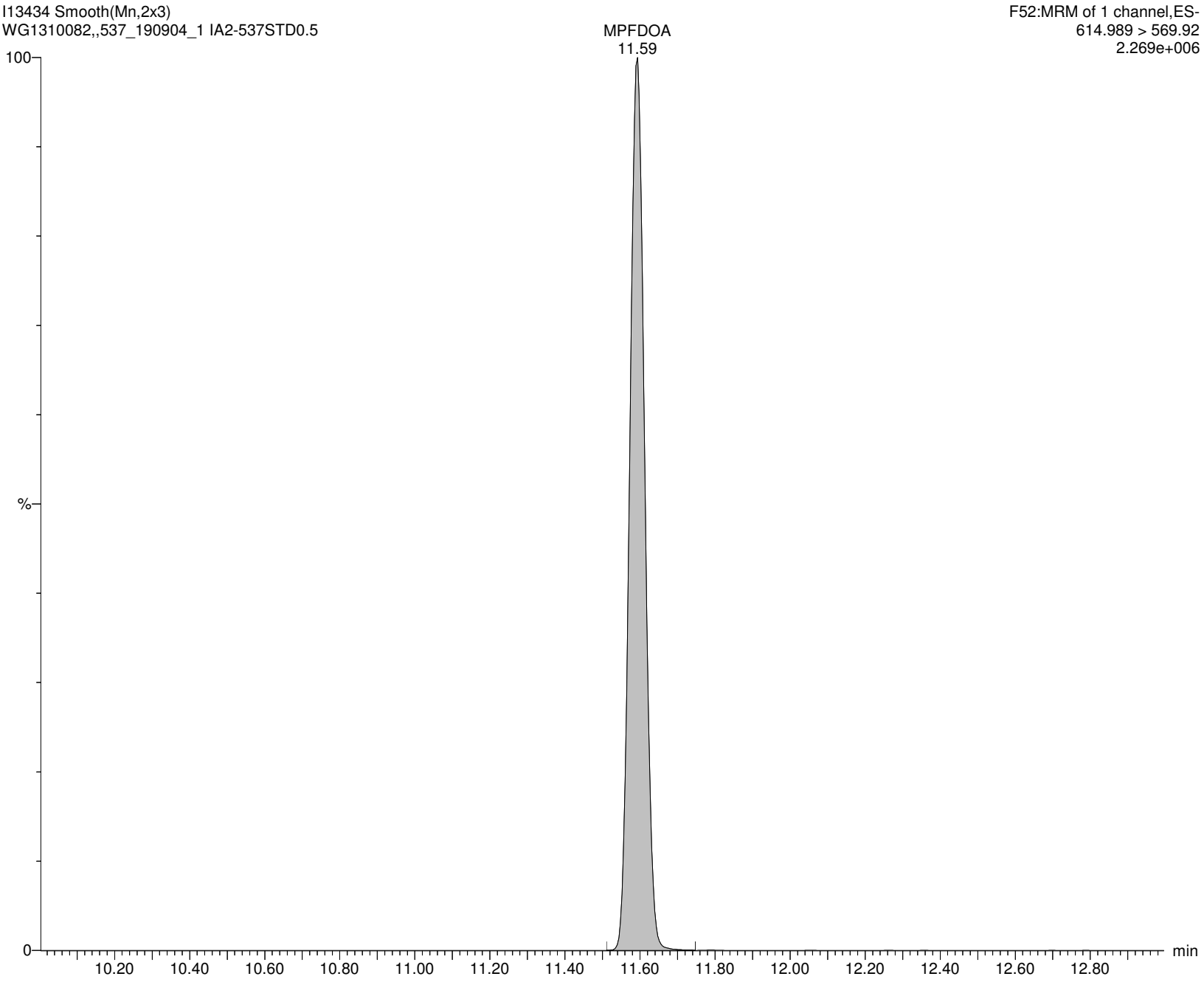

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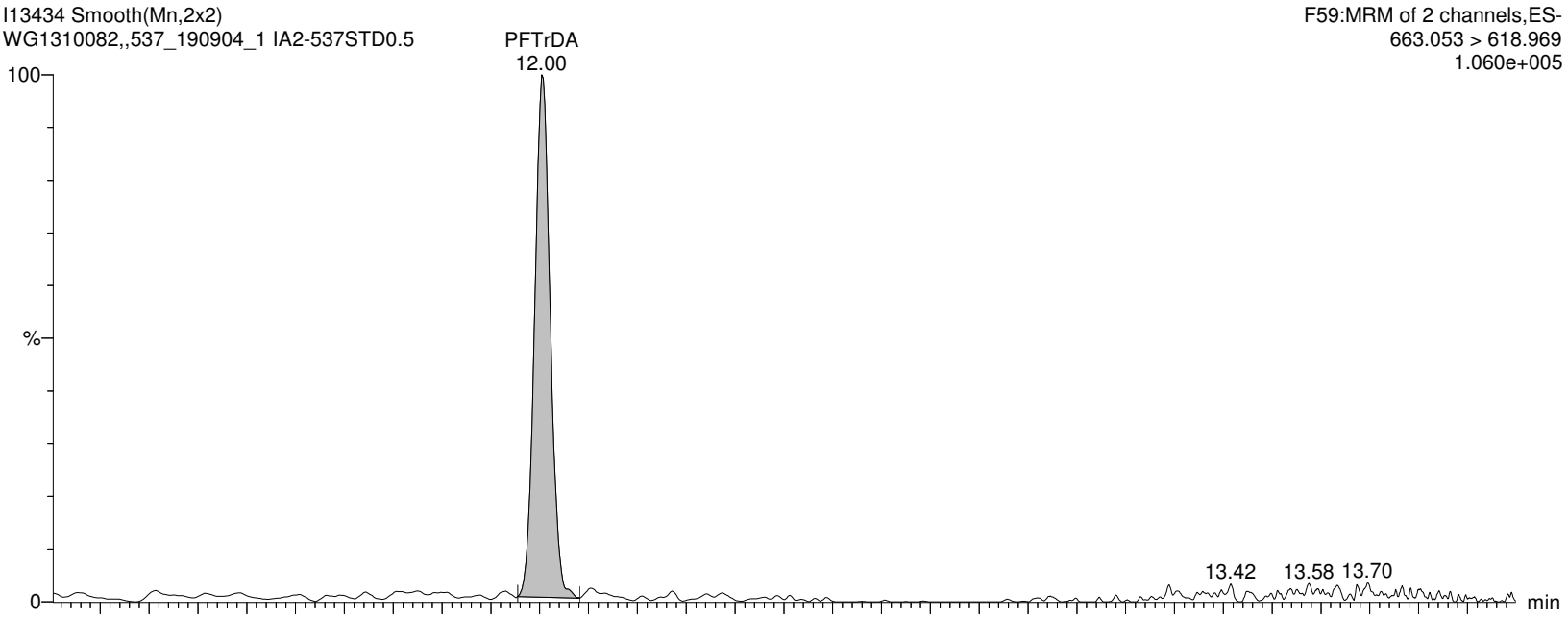

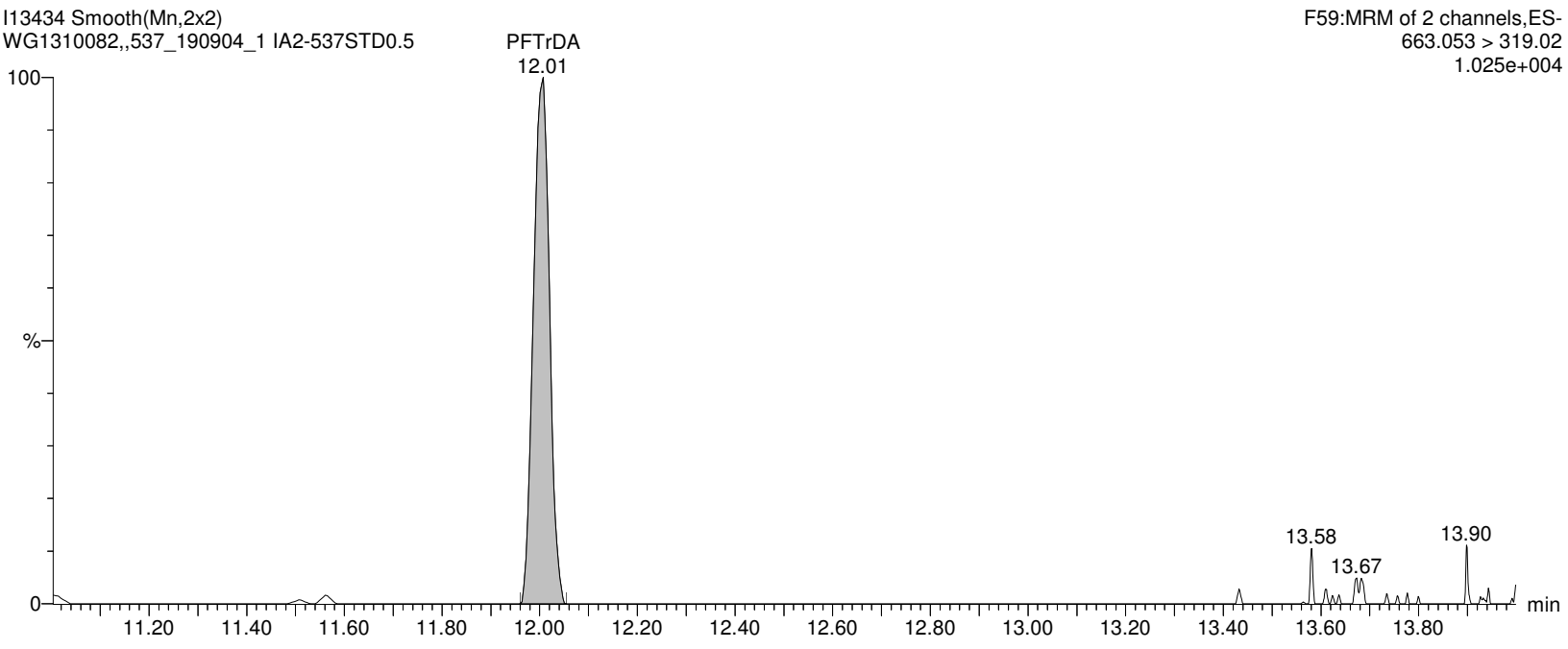

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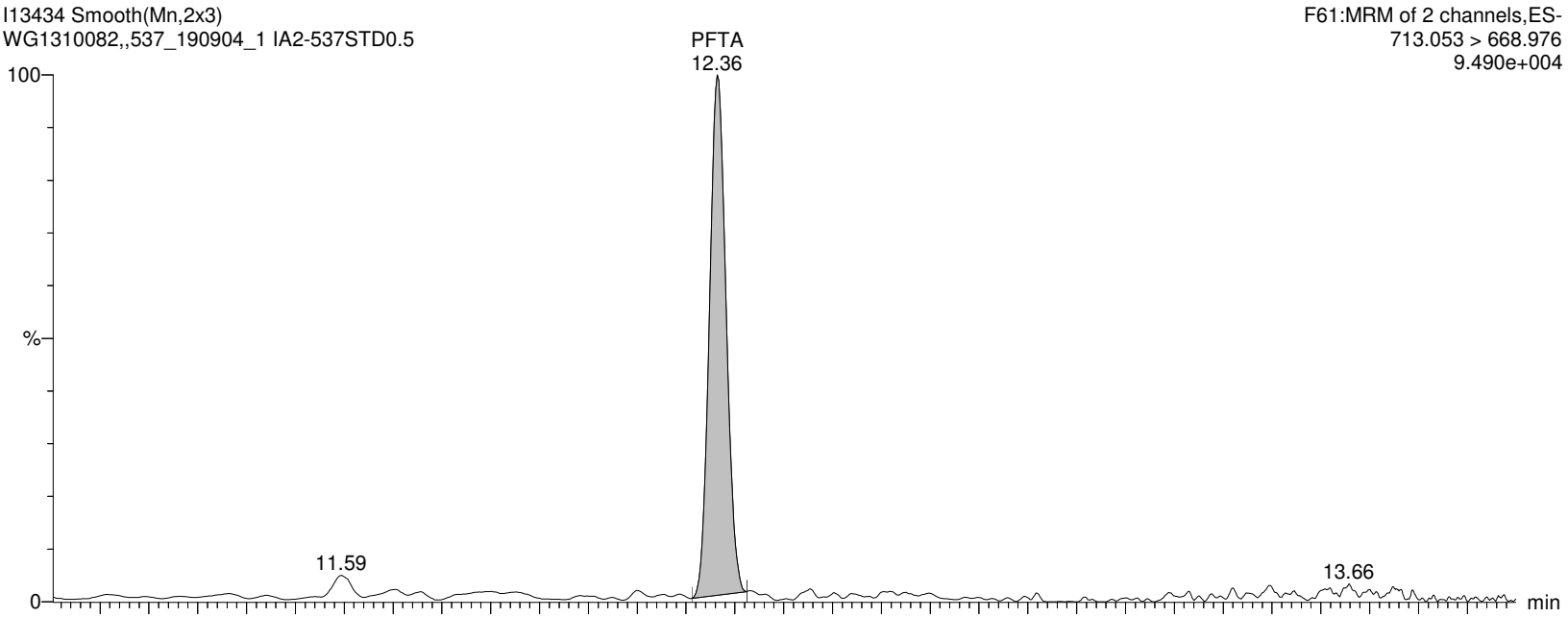

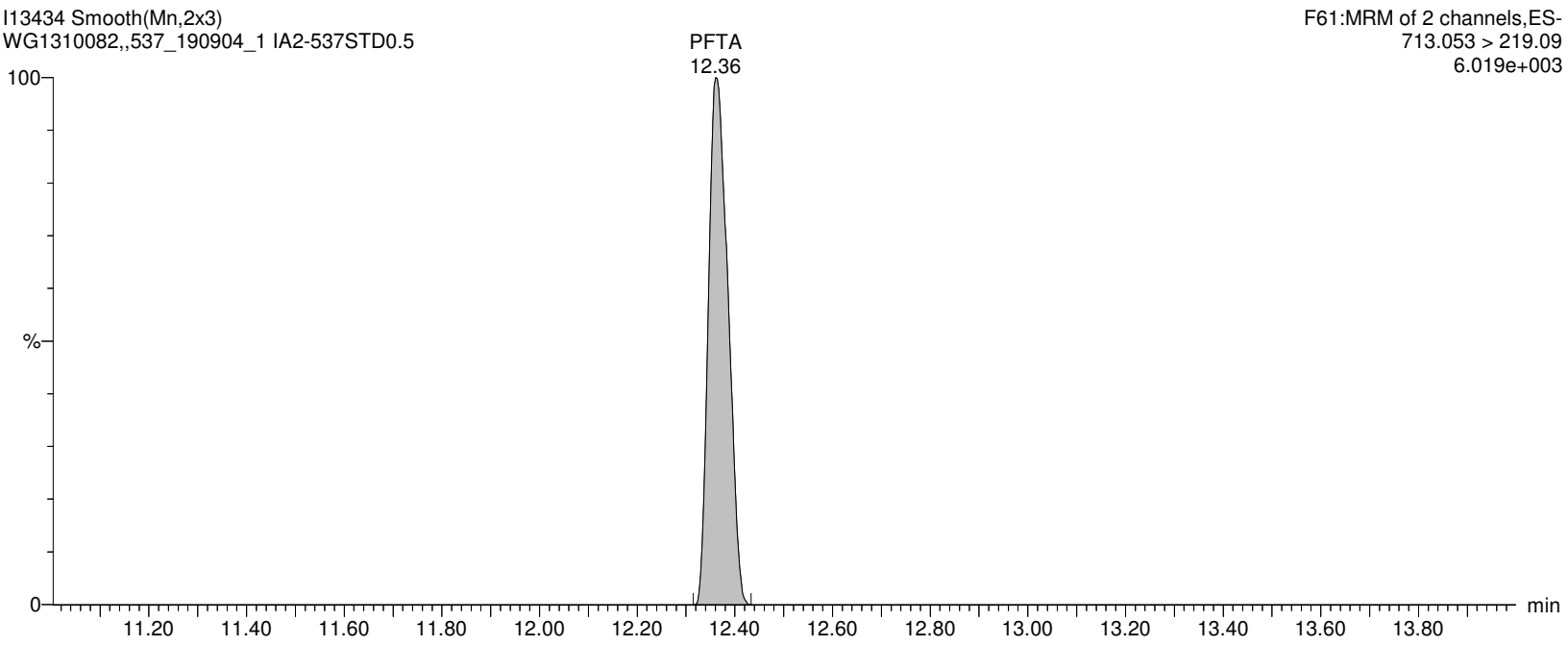

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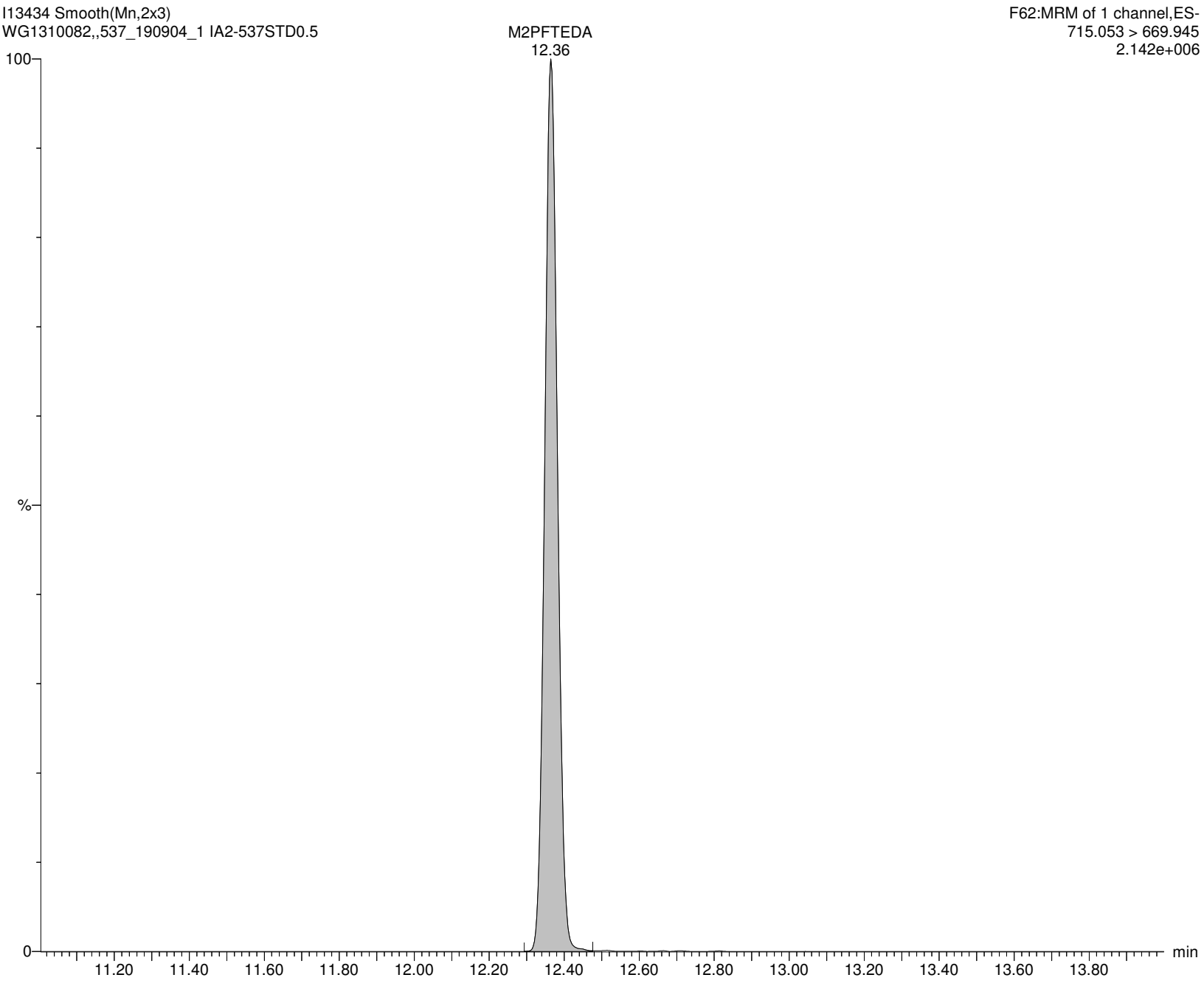

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:48 Eastern Standard Time

Name: I13434
ID: IA2-537STD0.5
Date: 18-Nov-2019
Time: 10:24:43
Description: WG1310082,,537_190904_1
User: LCMS02:JW
Vial: 1:A,2
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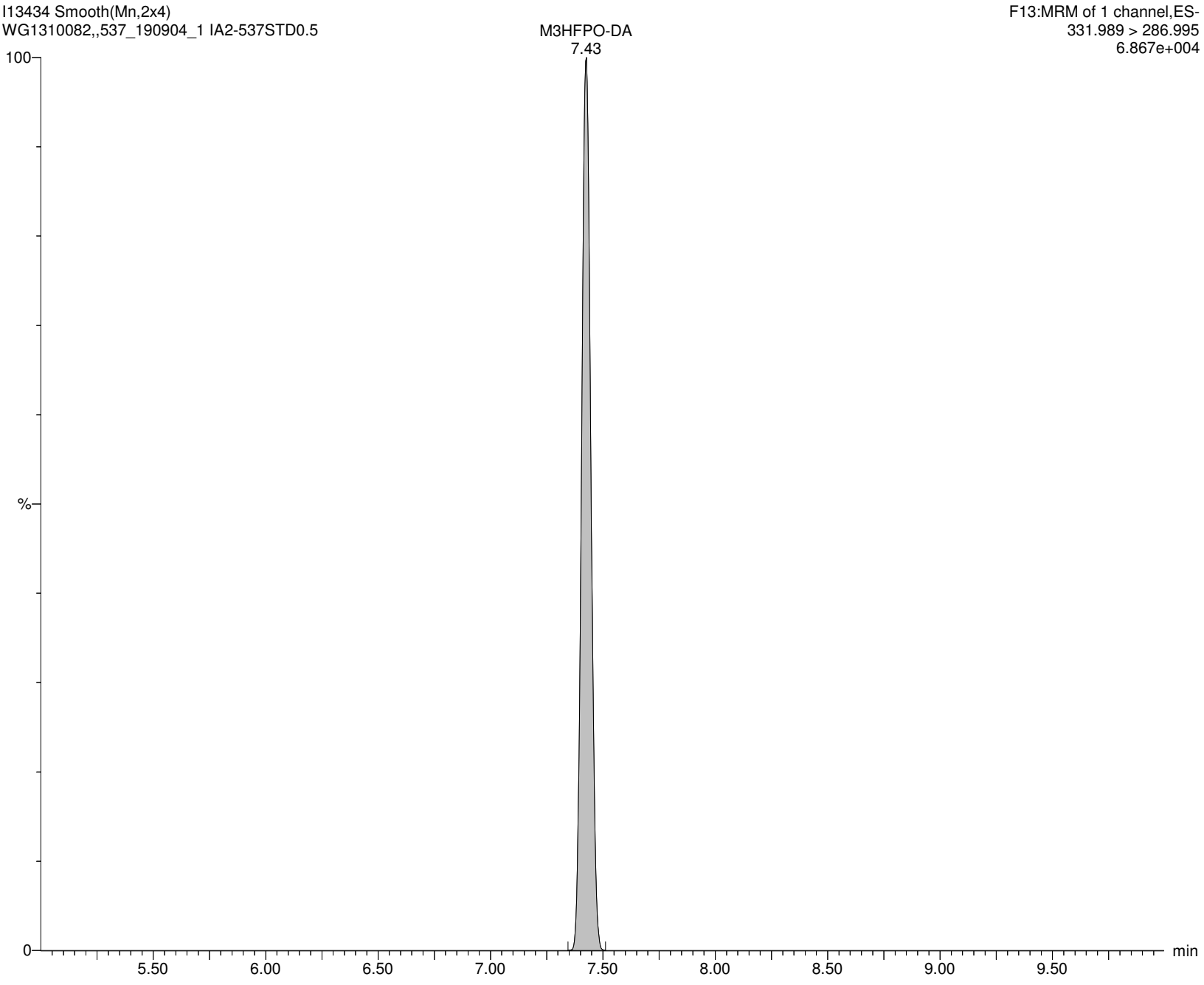

all concentration units in (ng/mL)

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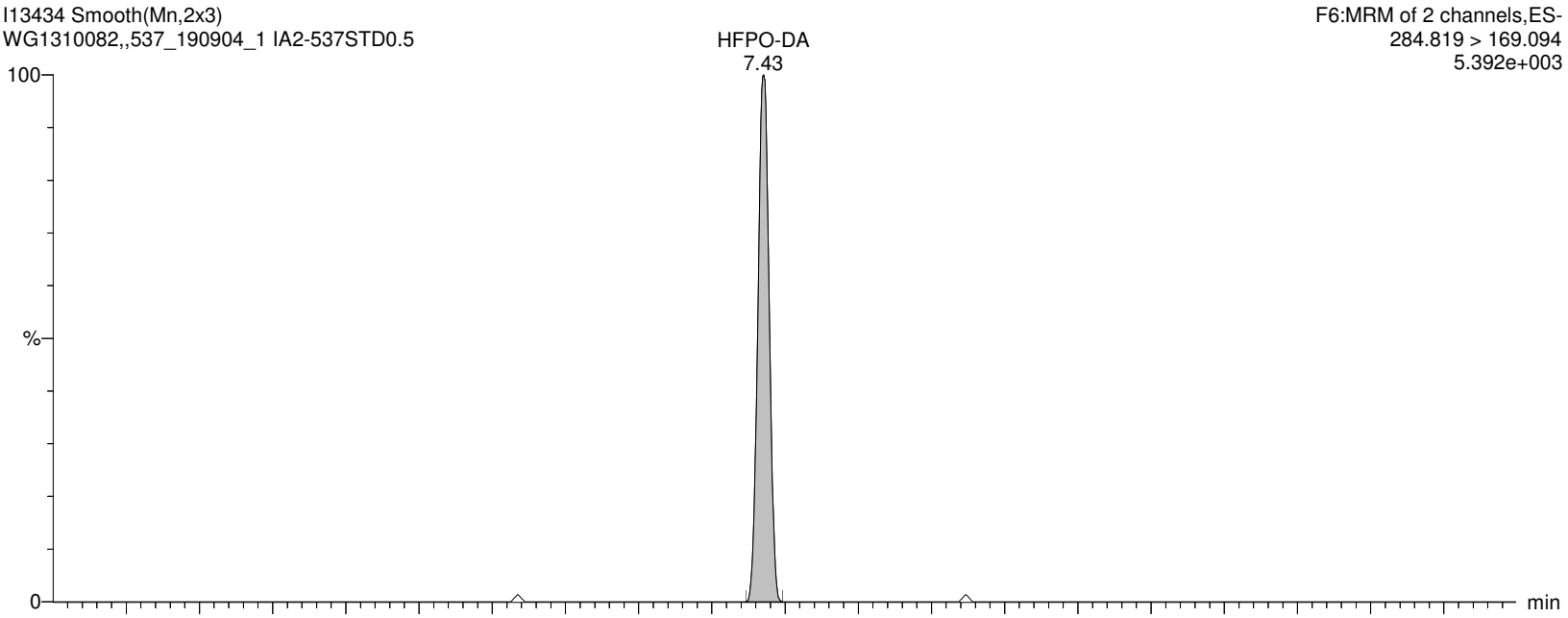

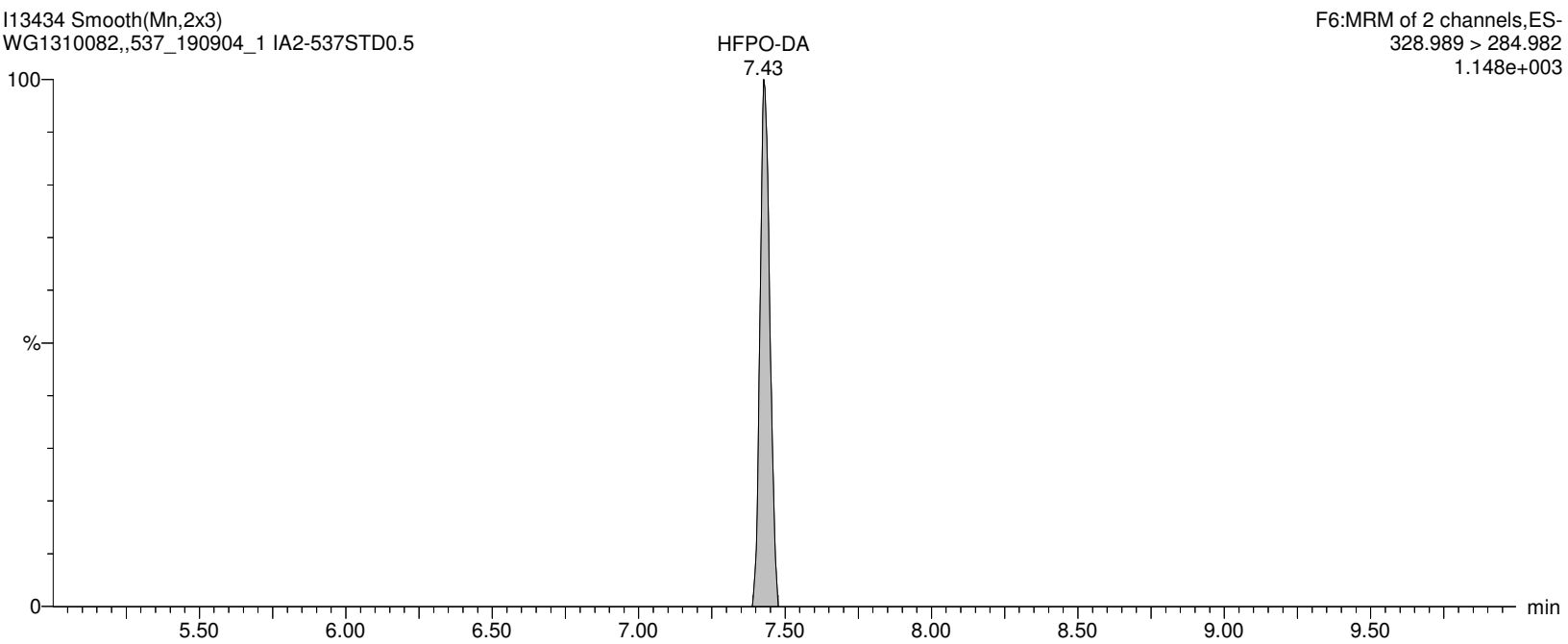

all concentration units in (ng/mL)

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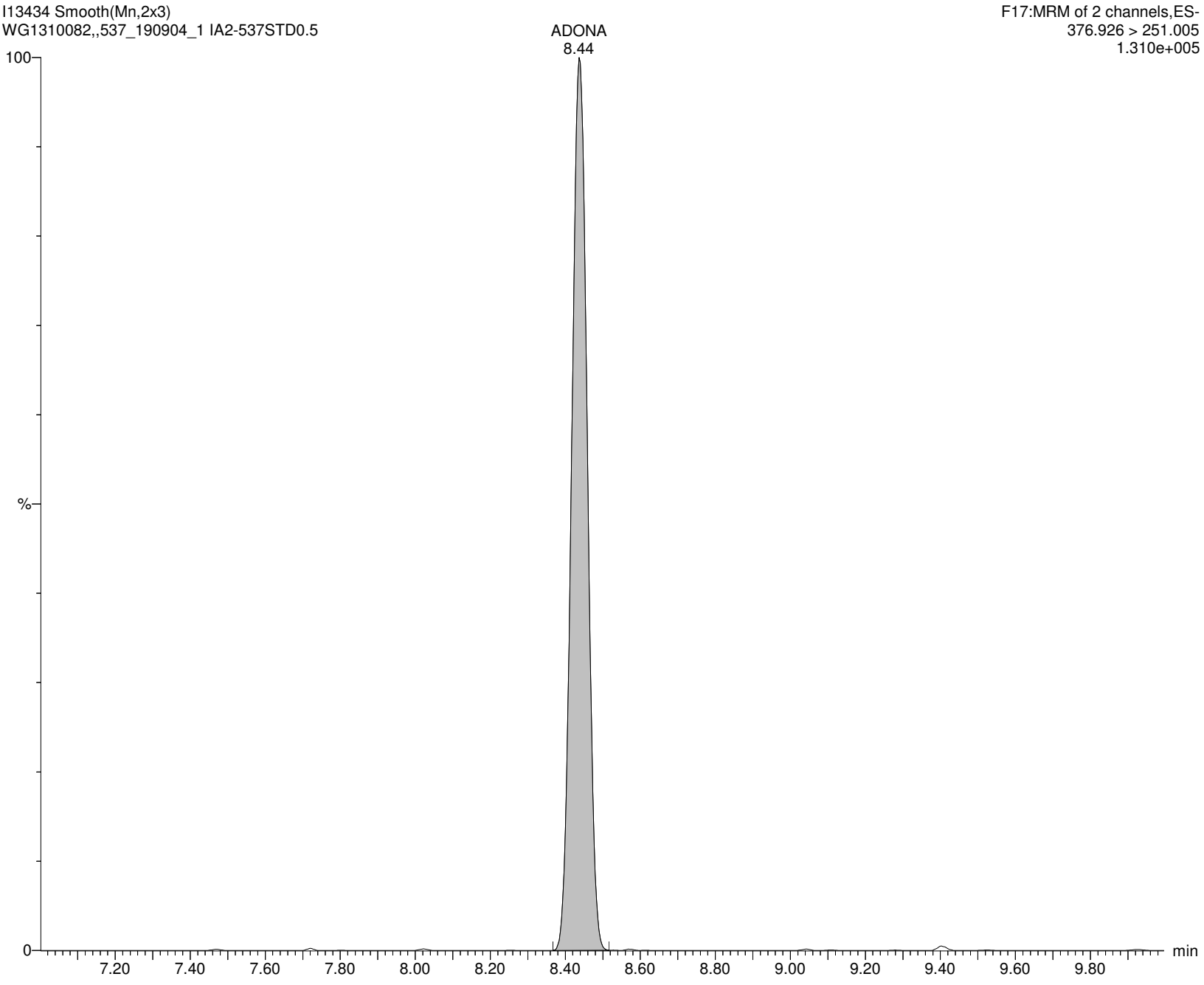

all concentration units in (ng/mL)

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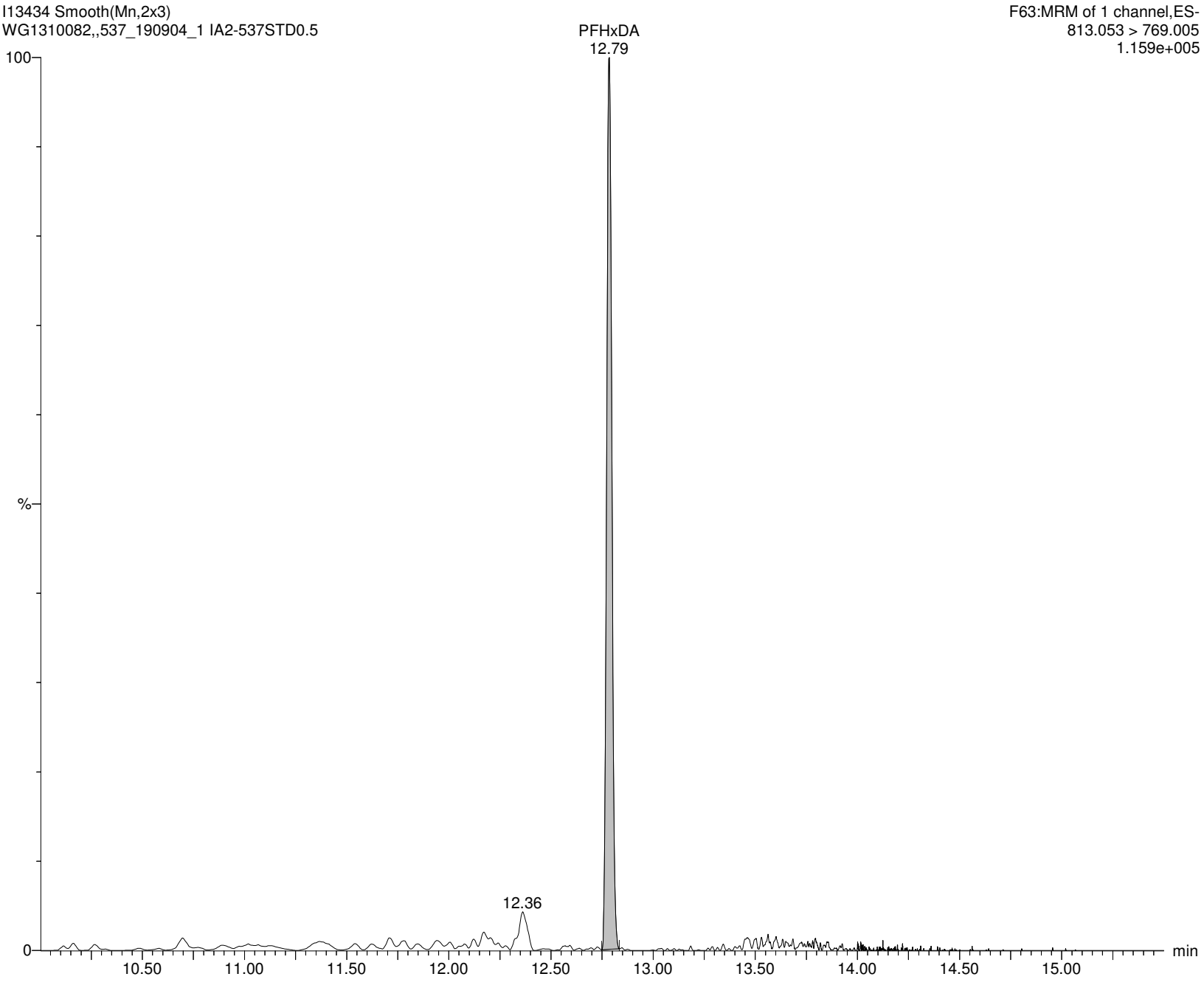

all concentration units in (ng/mL)

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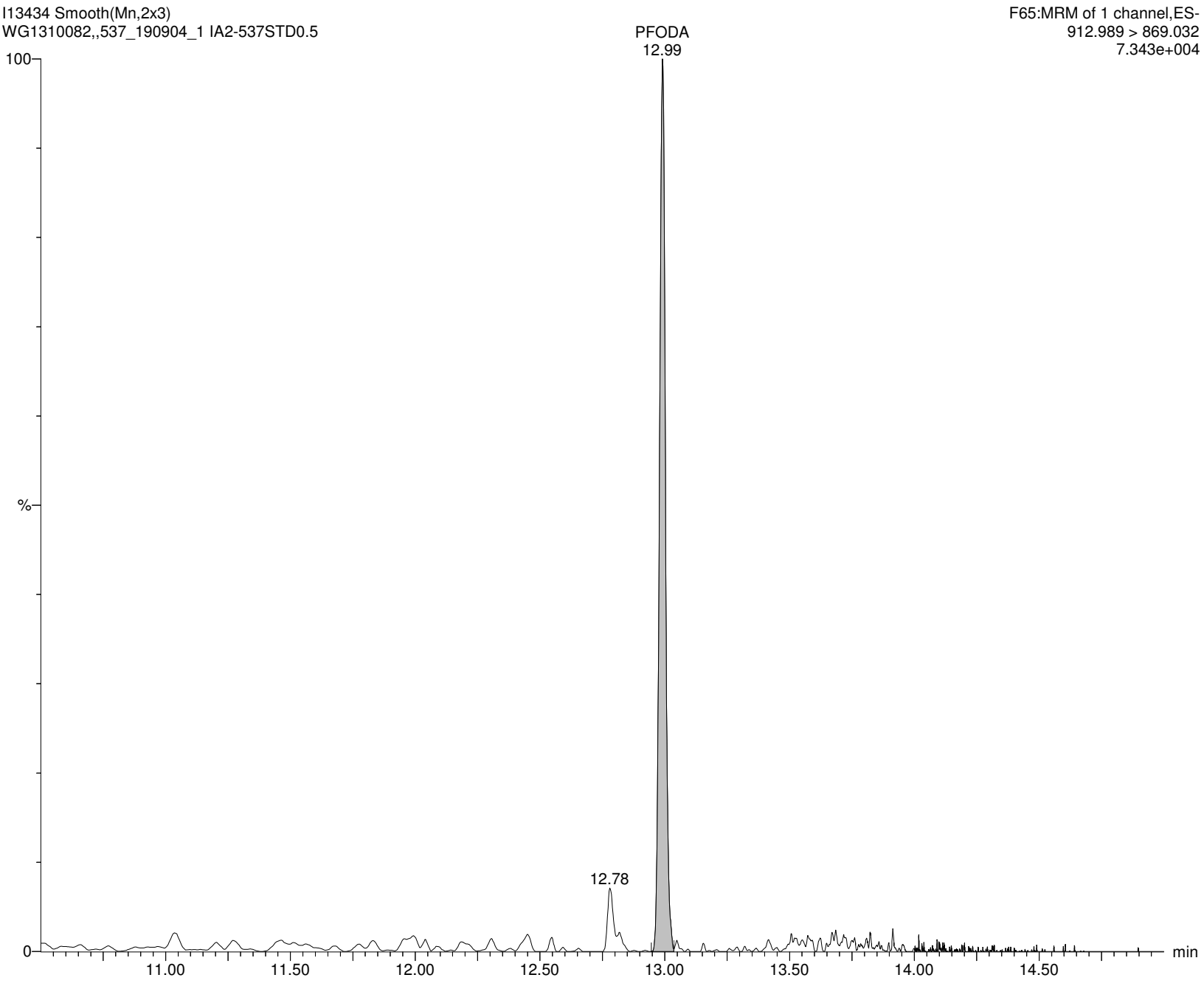

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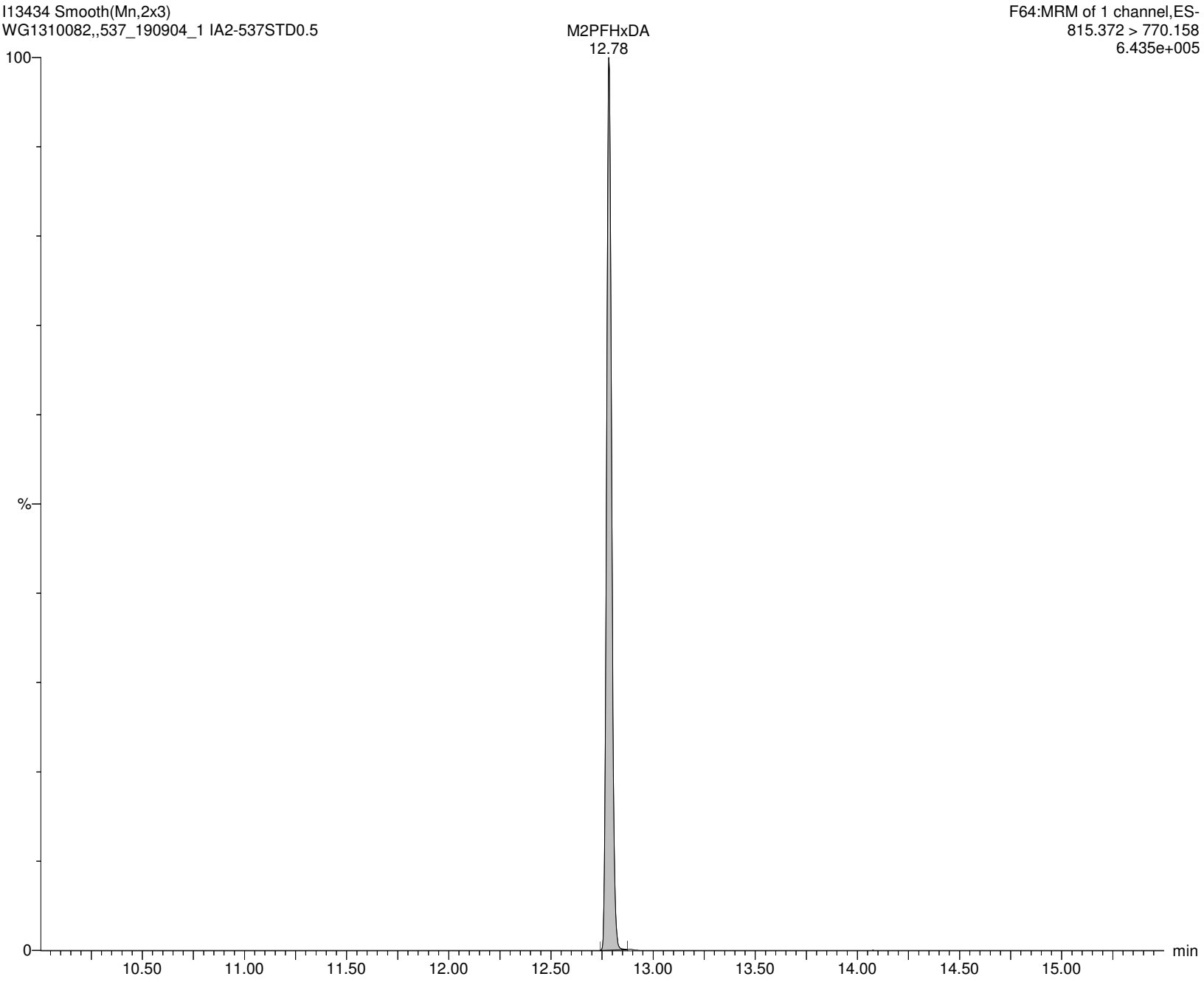

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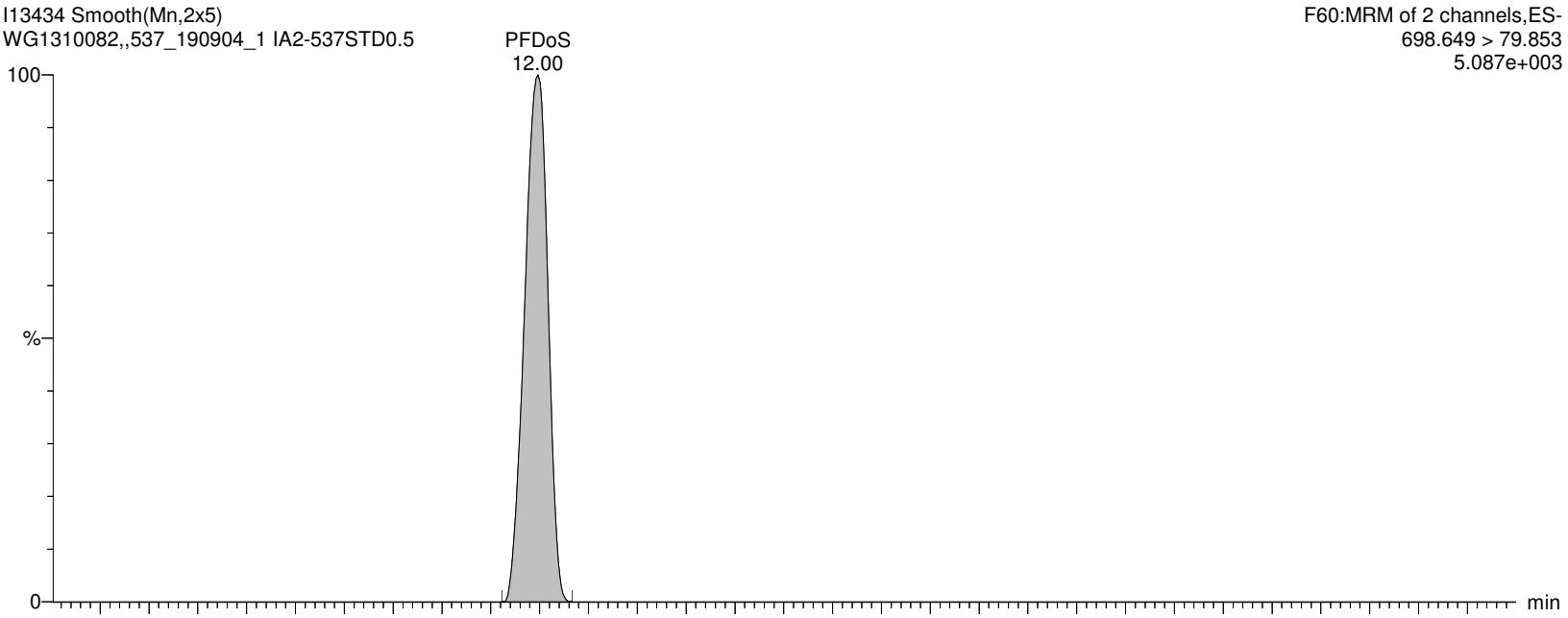

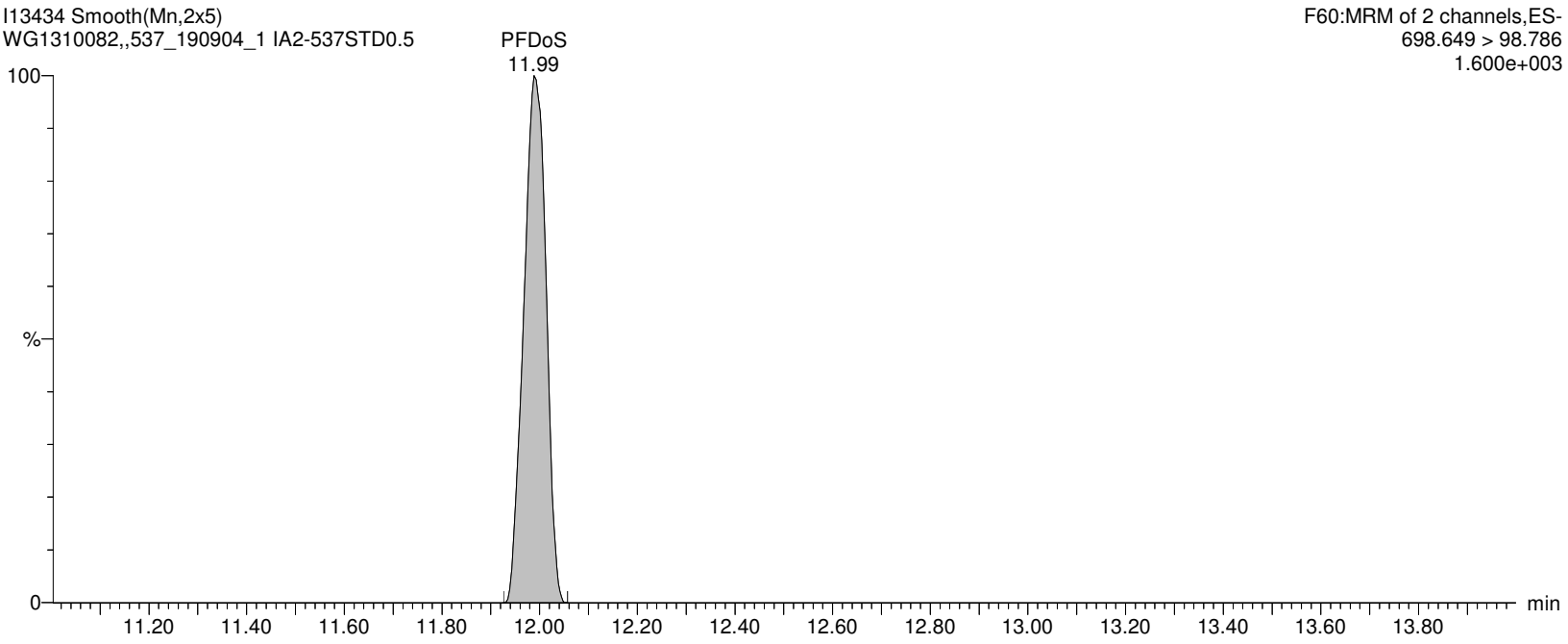

all concentration units in (ng/mL)

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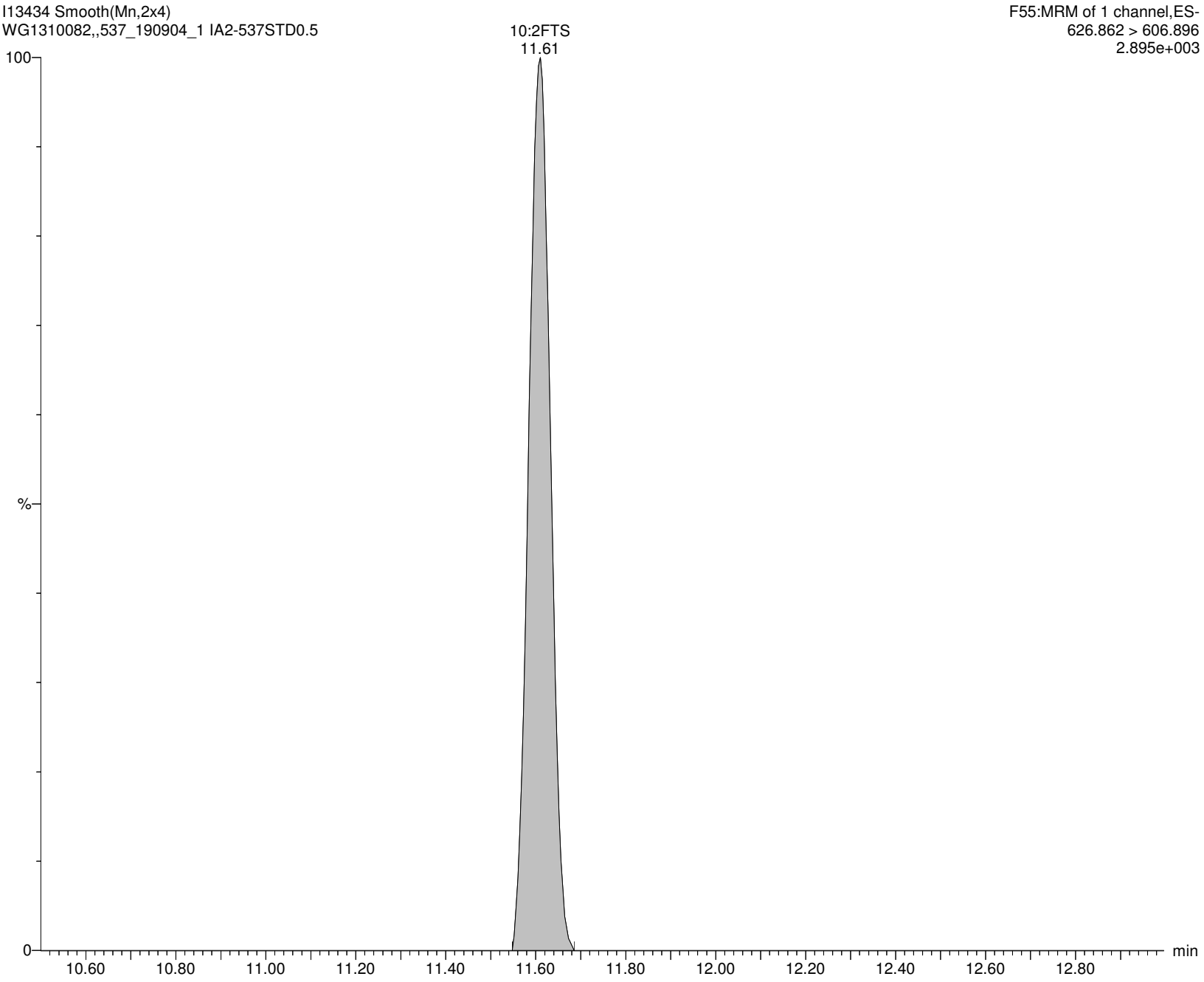

all concentration units in (ng/mL)

Alpha Analytical Inc.
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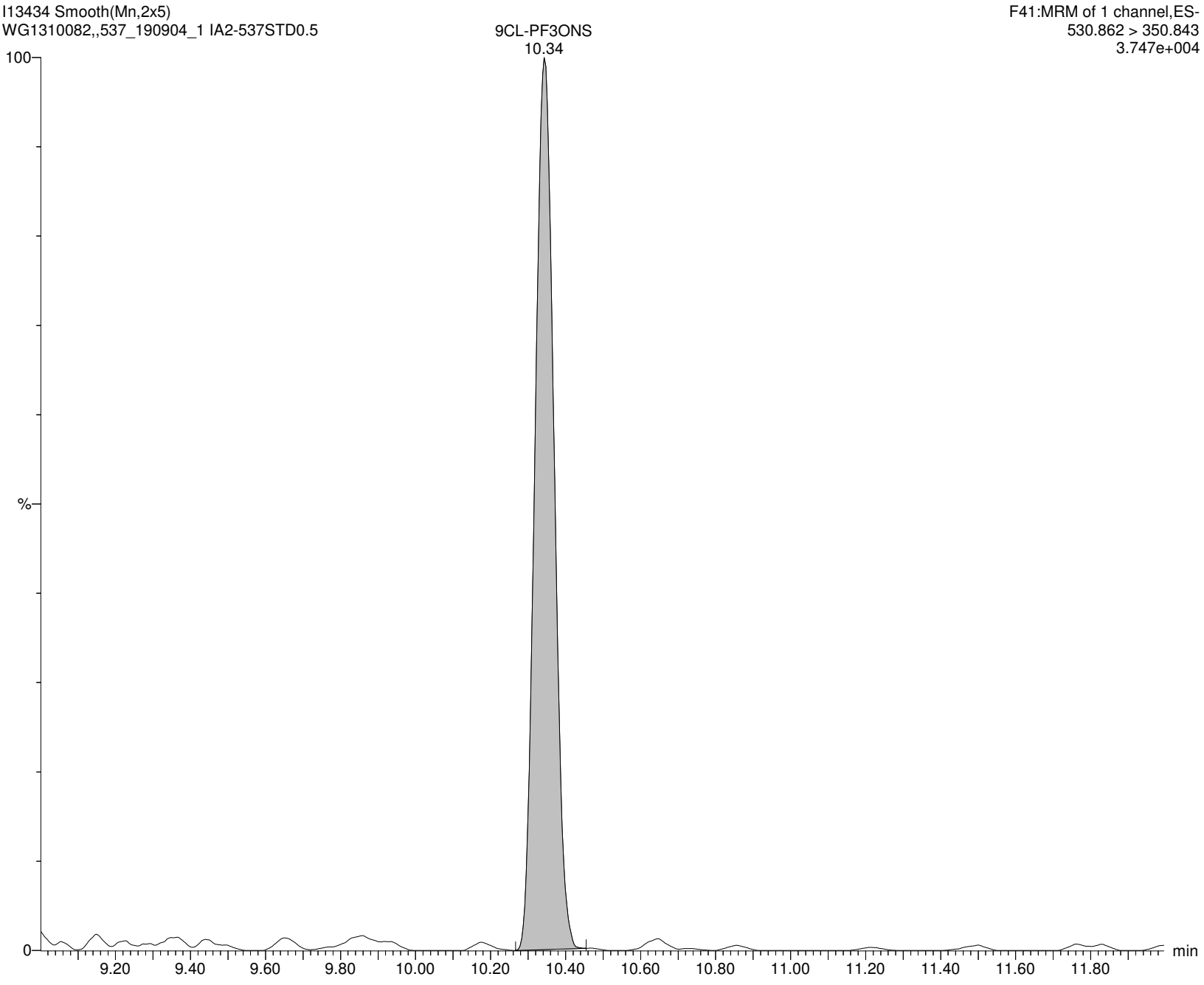

all concentration units in (ng/mL)

Alpha Analytical Inc.
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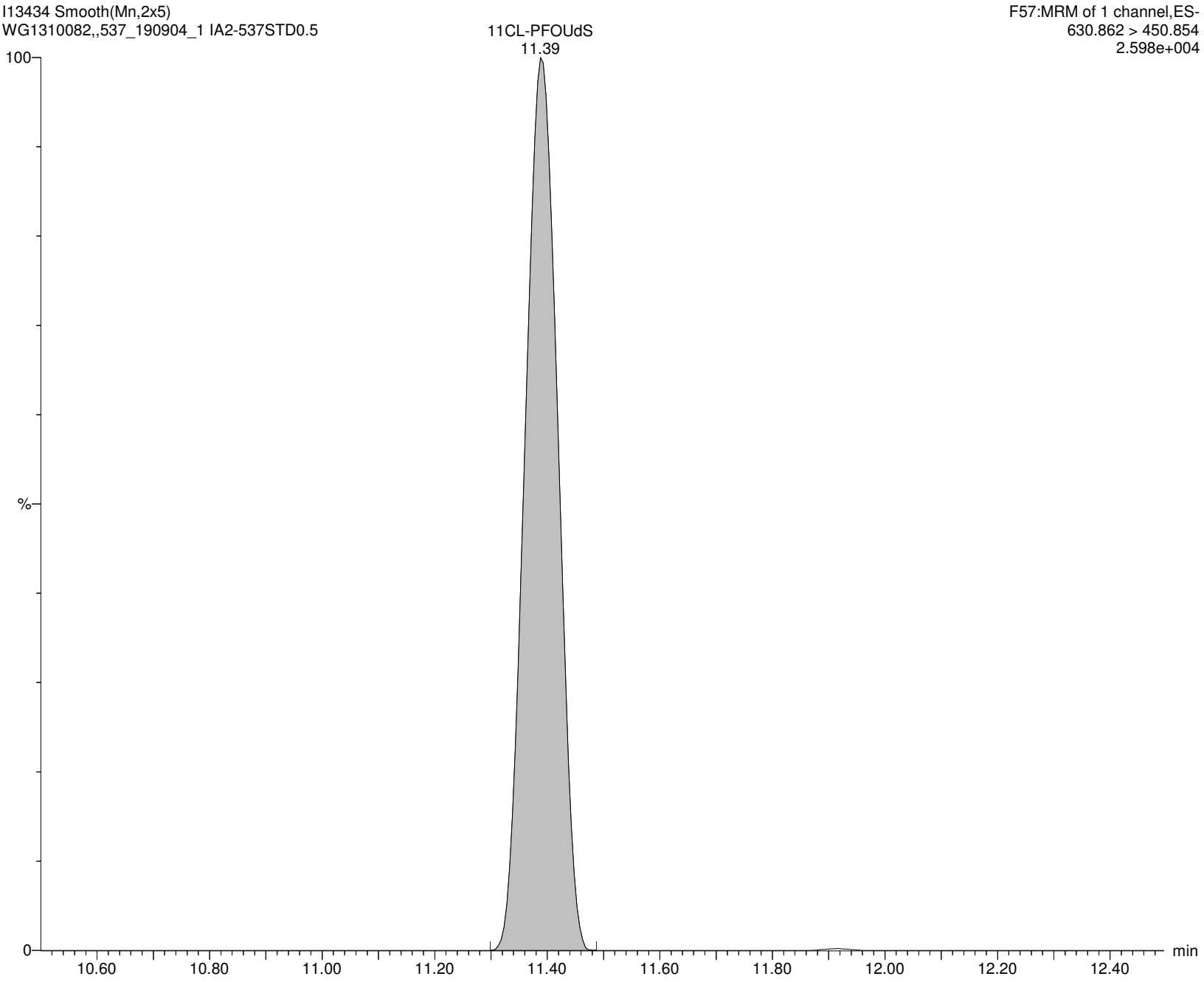

all concentration units in (ng/mL)

Alpha Analytical Inc.
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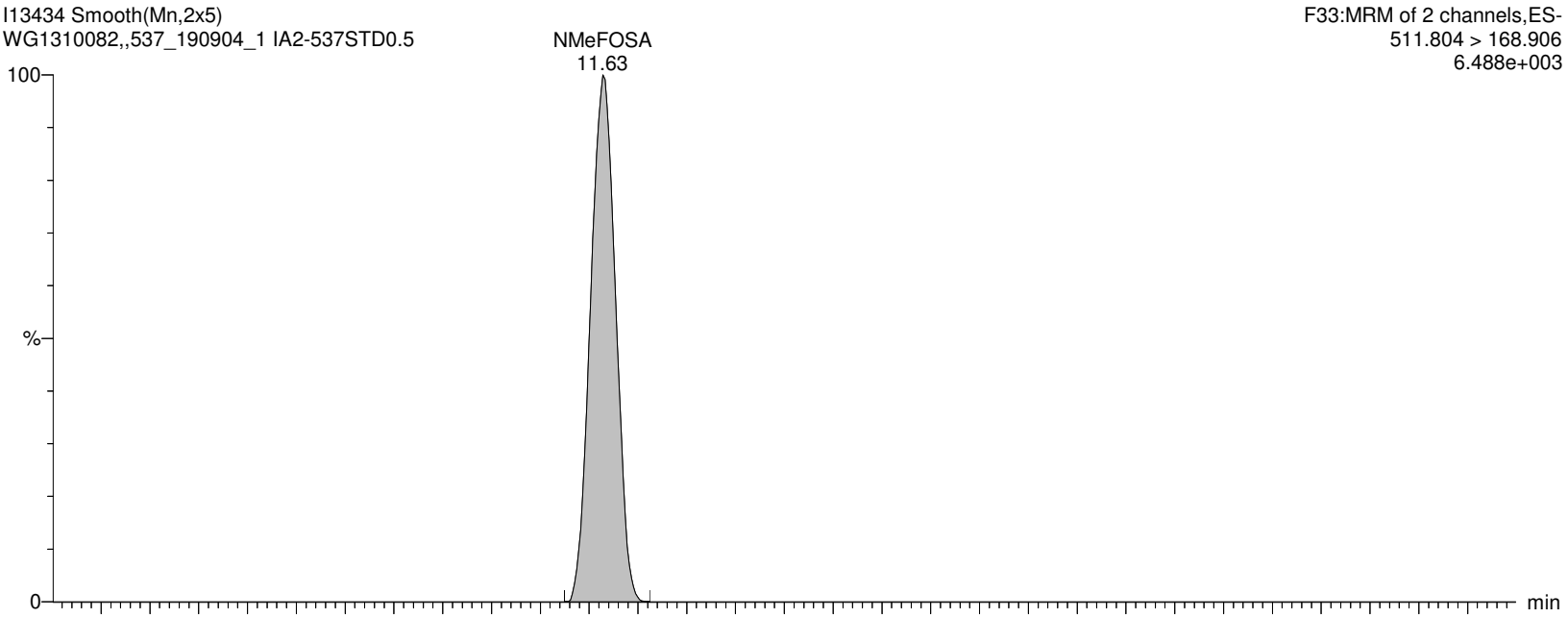

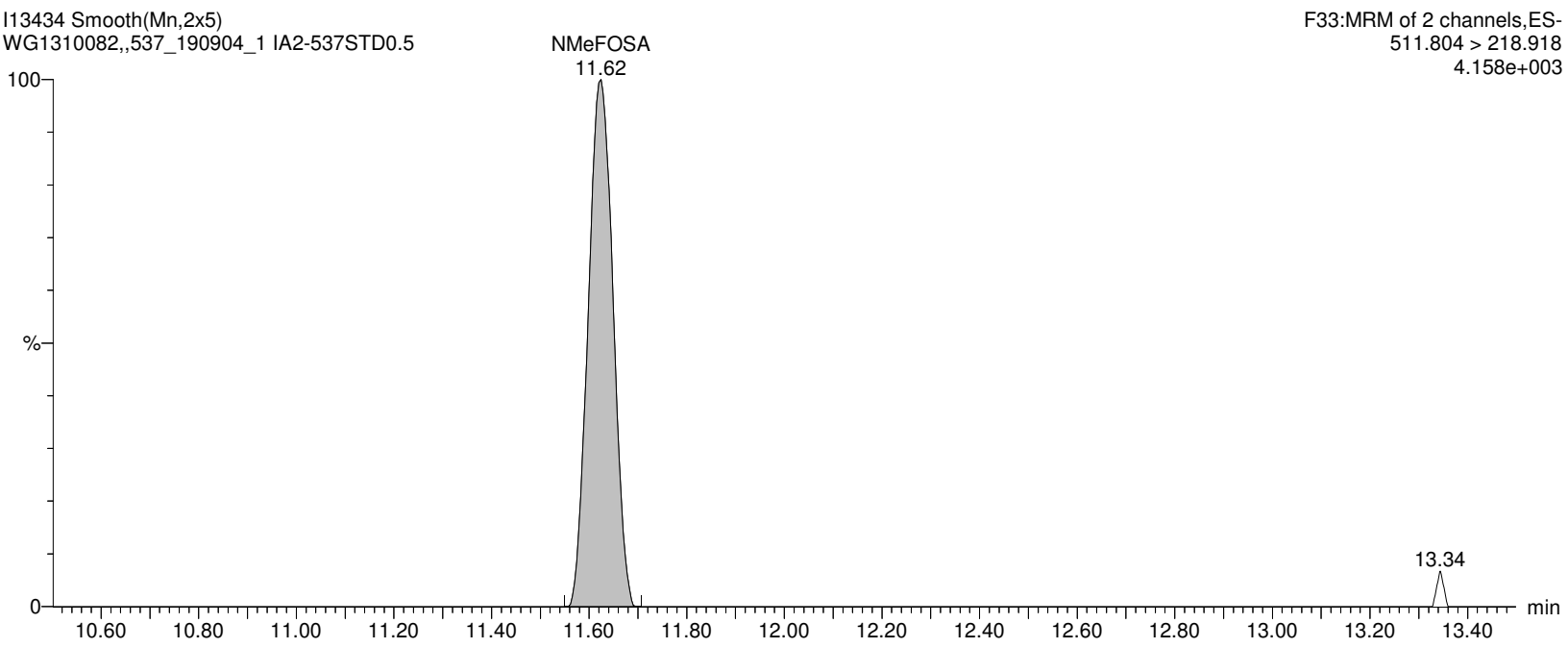

all concentration units in (ng/mL)

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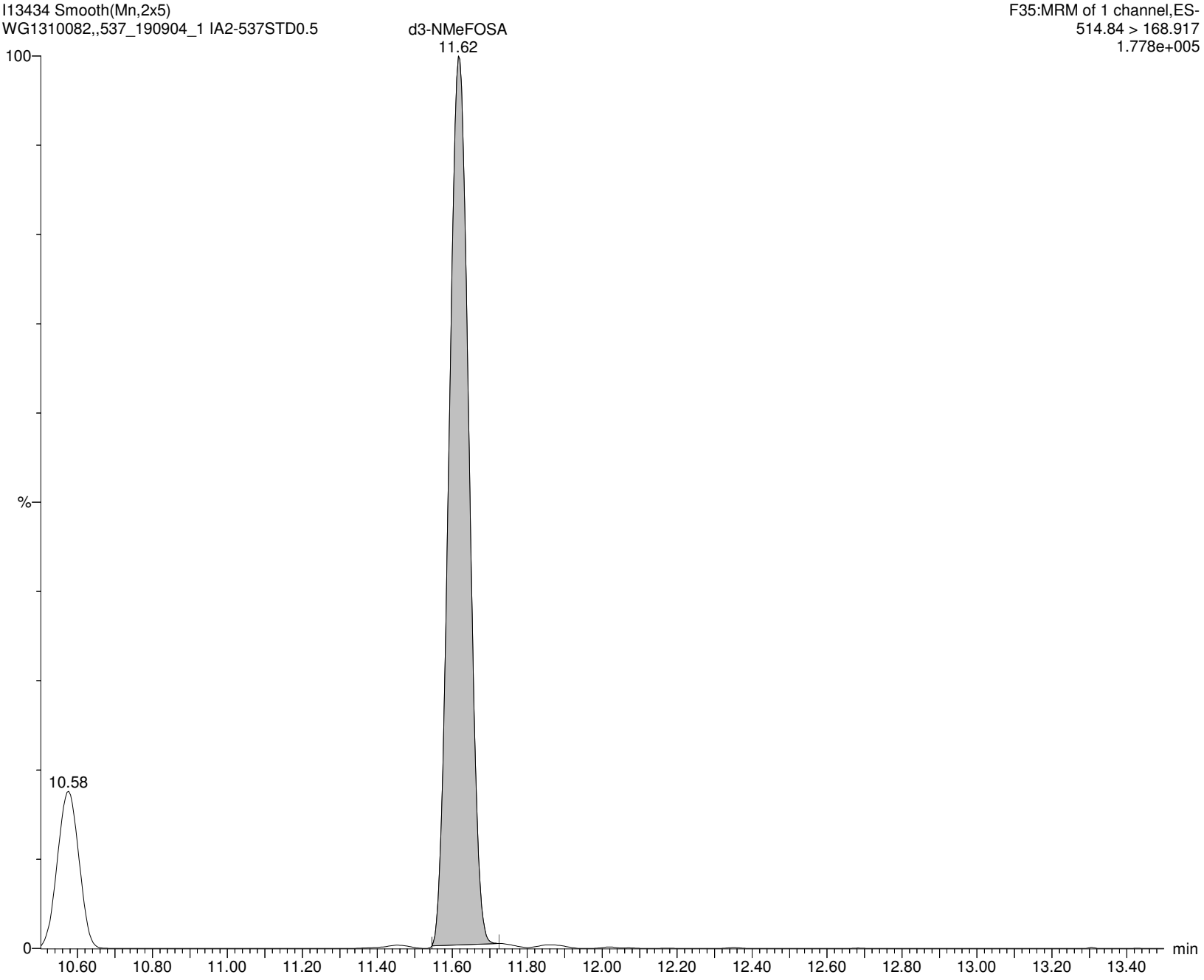

all concentration units in (ng/mL)

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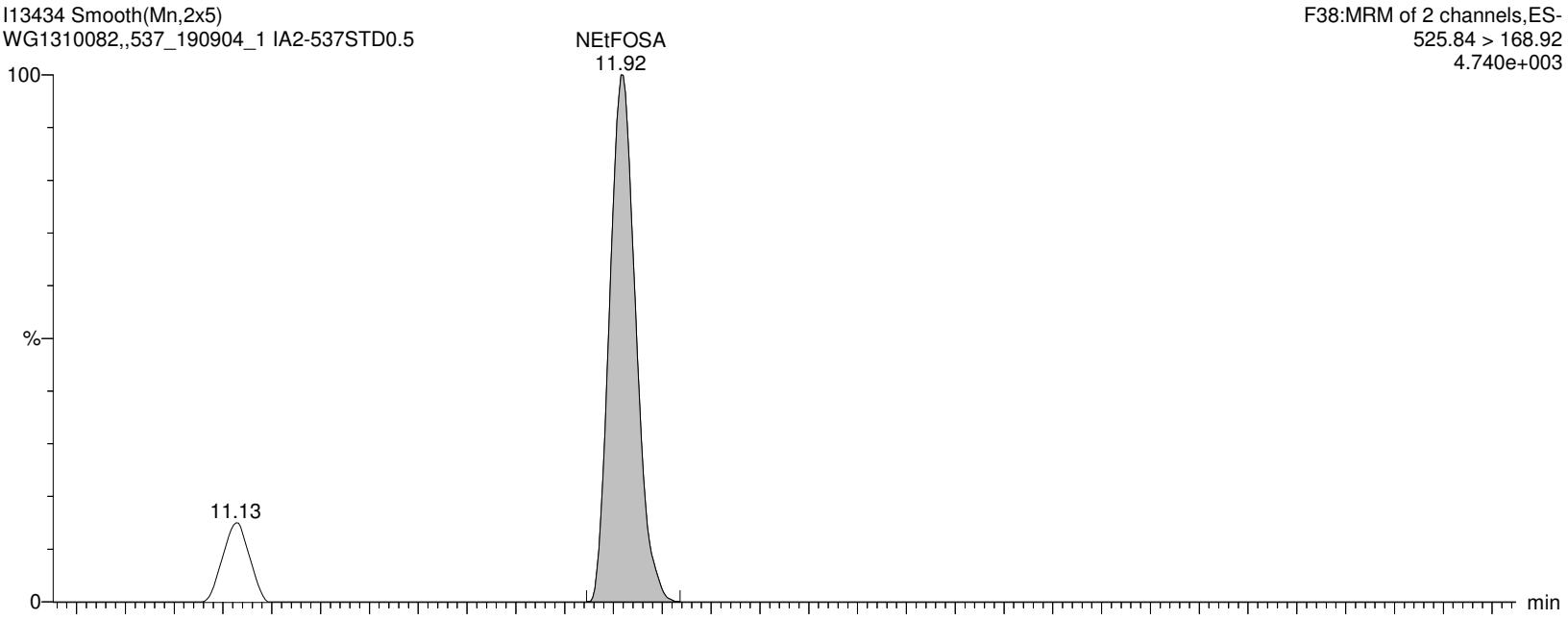

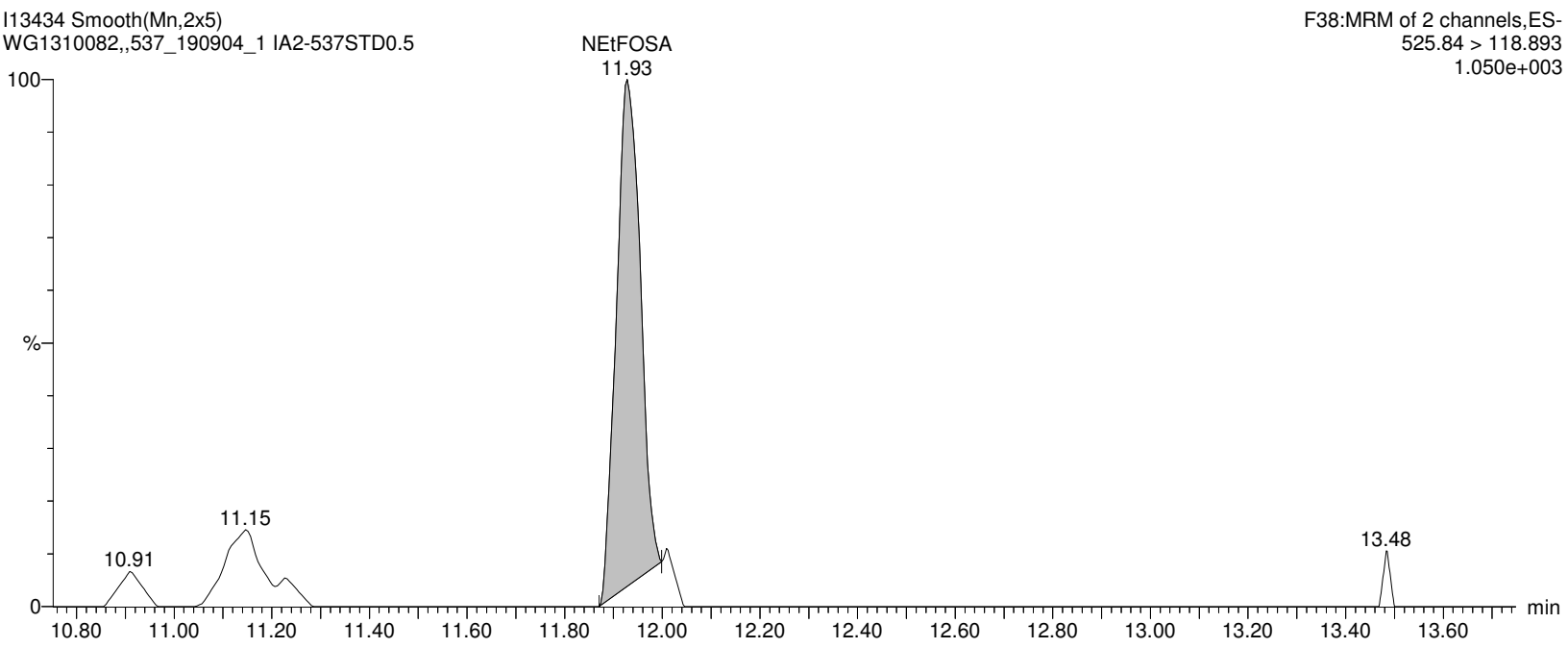

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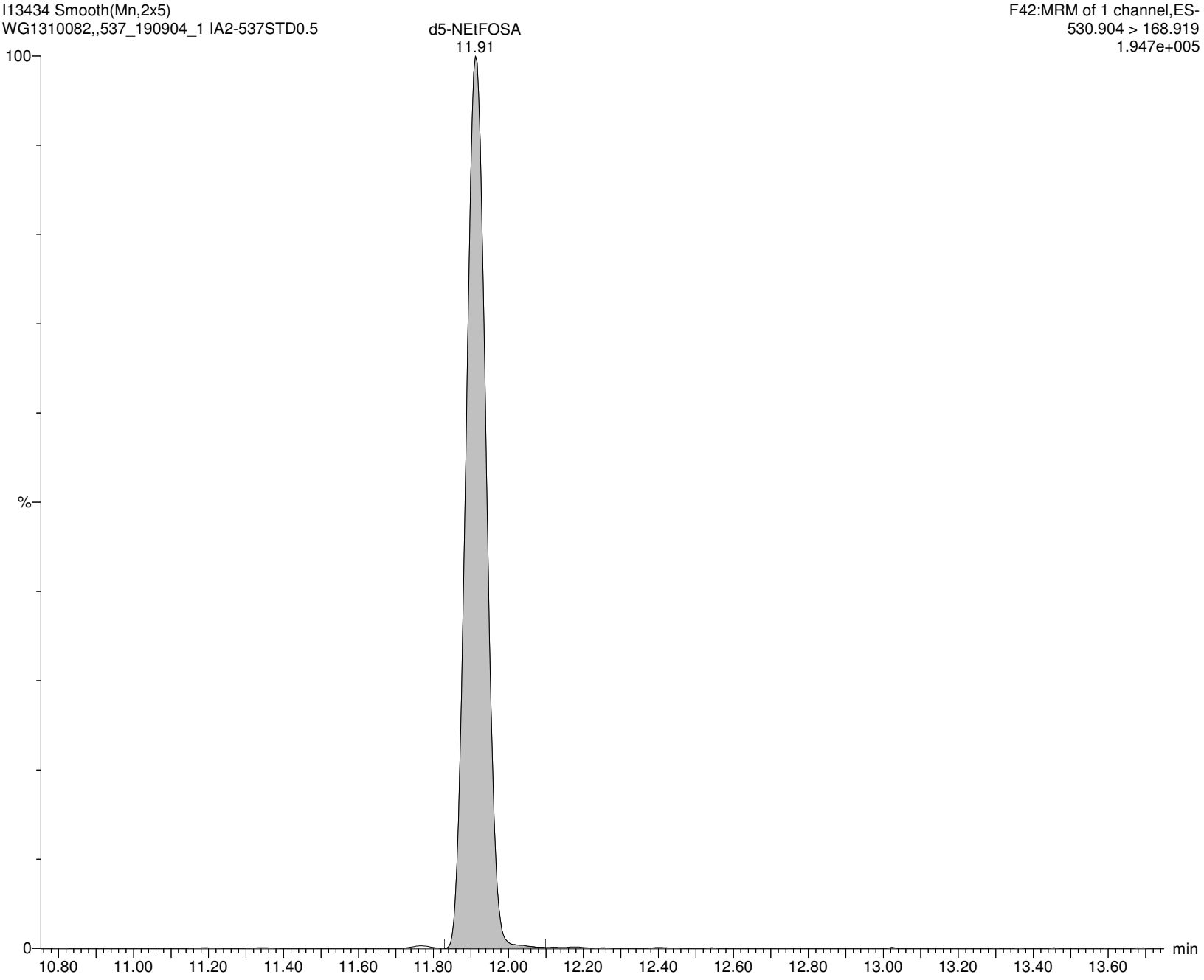

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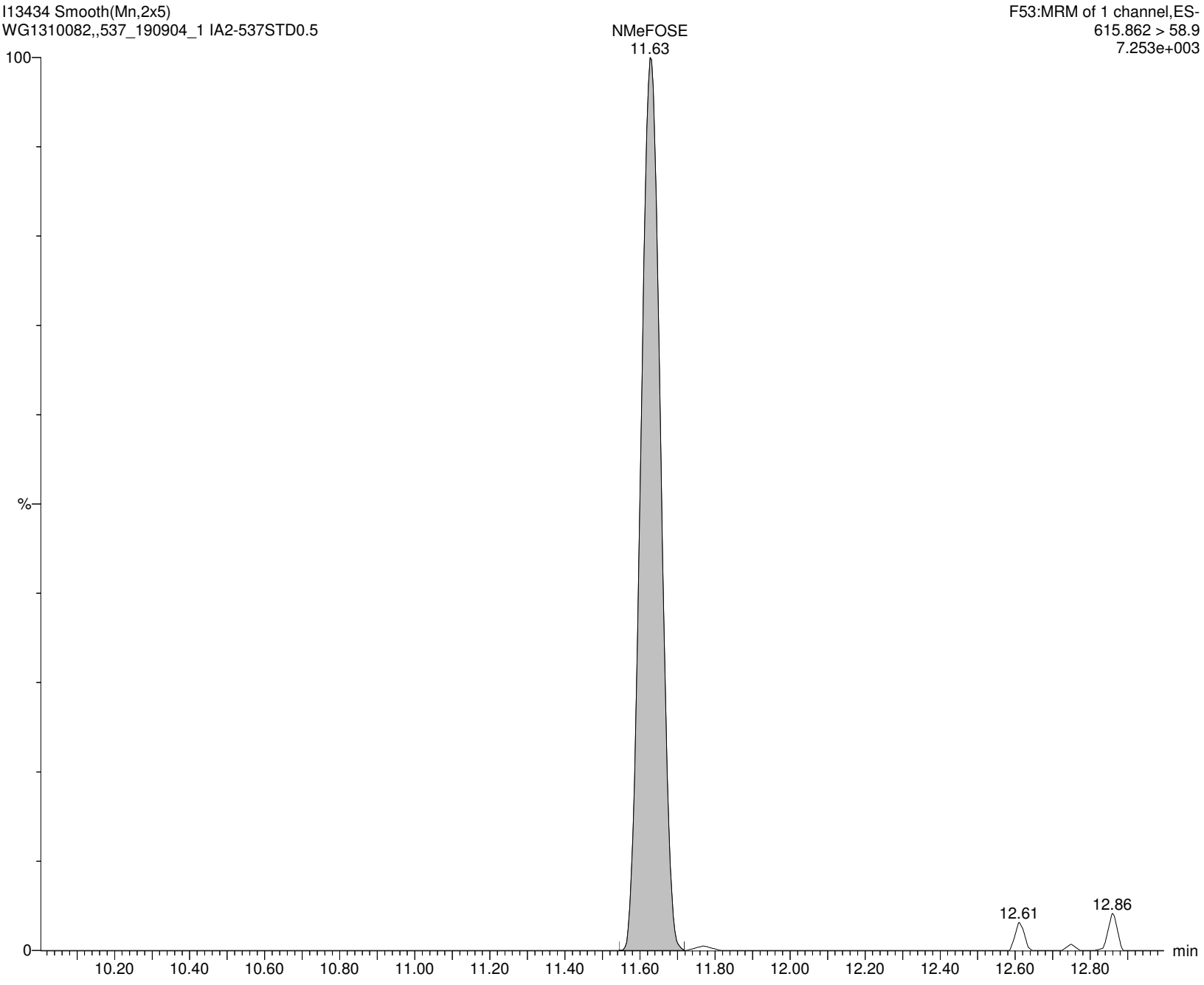

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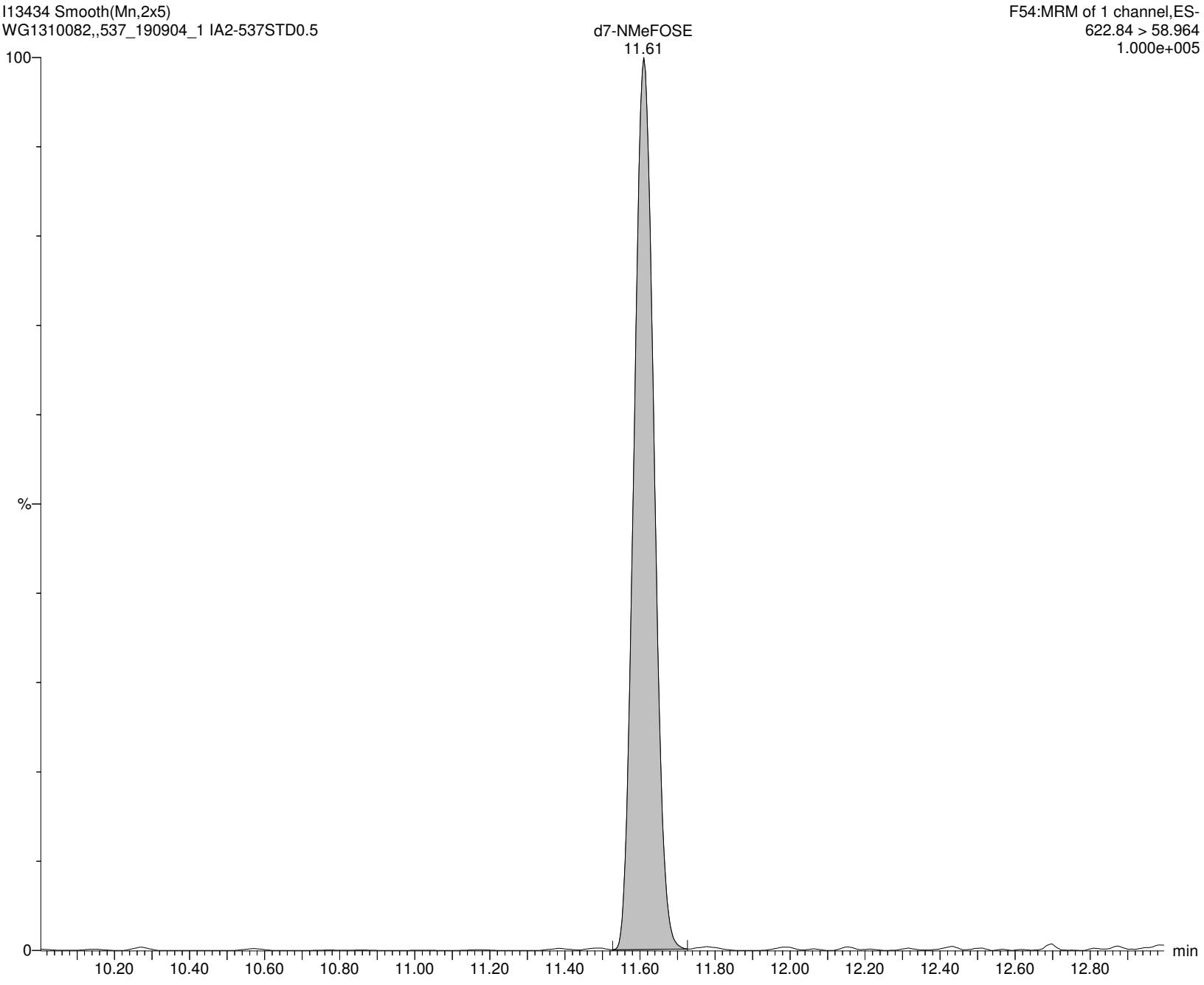

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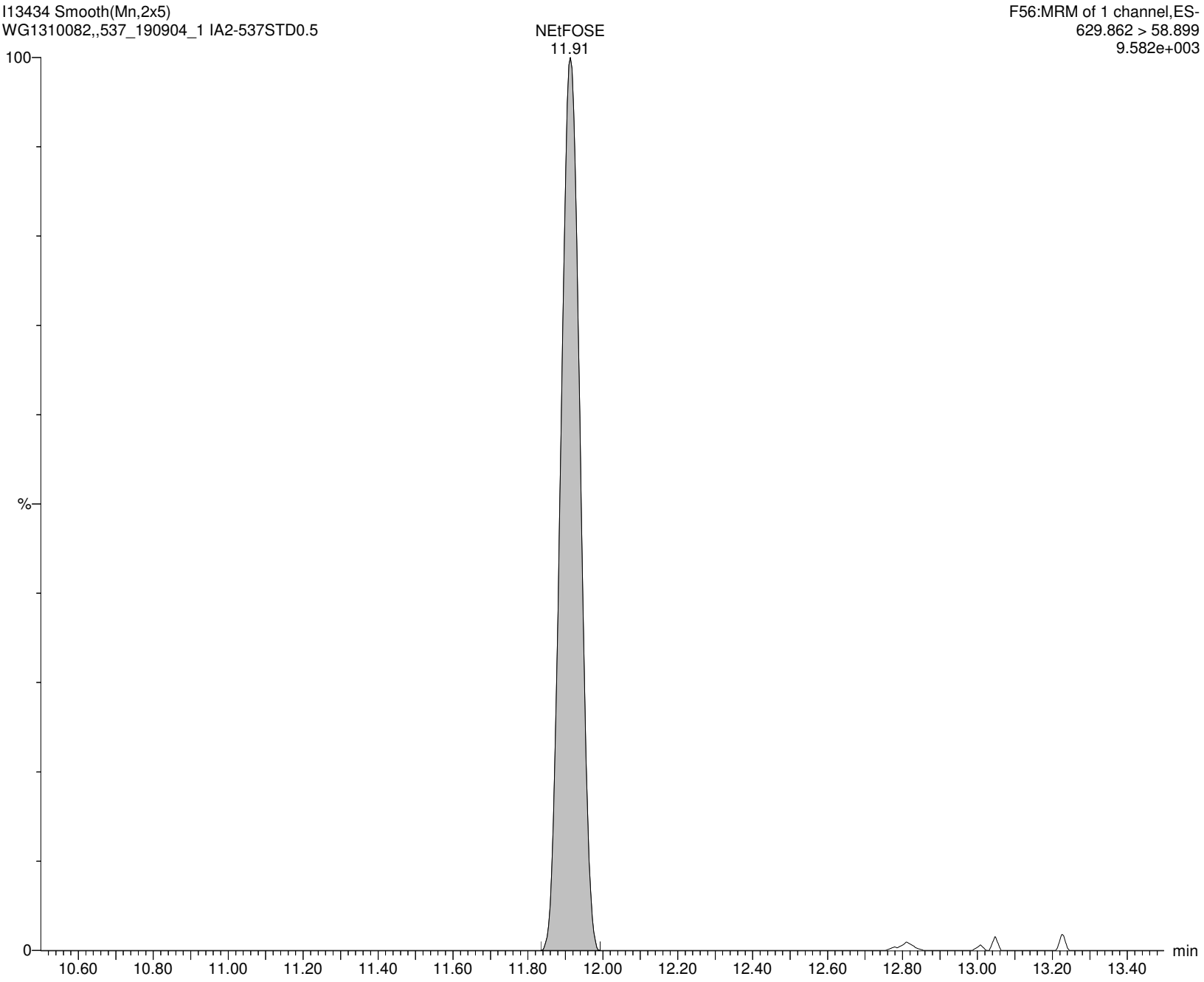
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:48 Eastern Standard Time

Name: I13434
ID: IA2-537STD0.5
Date: 18-Nov-2019
Time: 10:24:43
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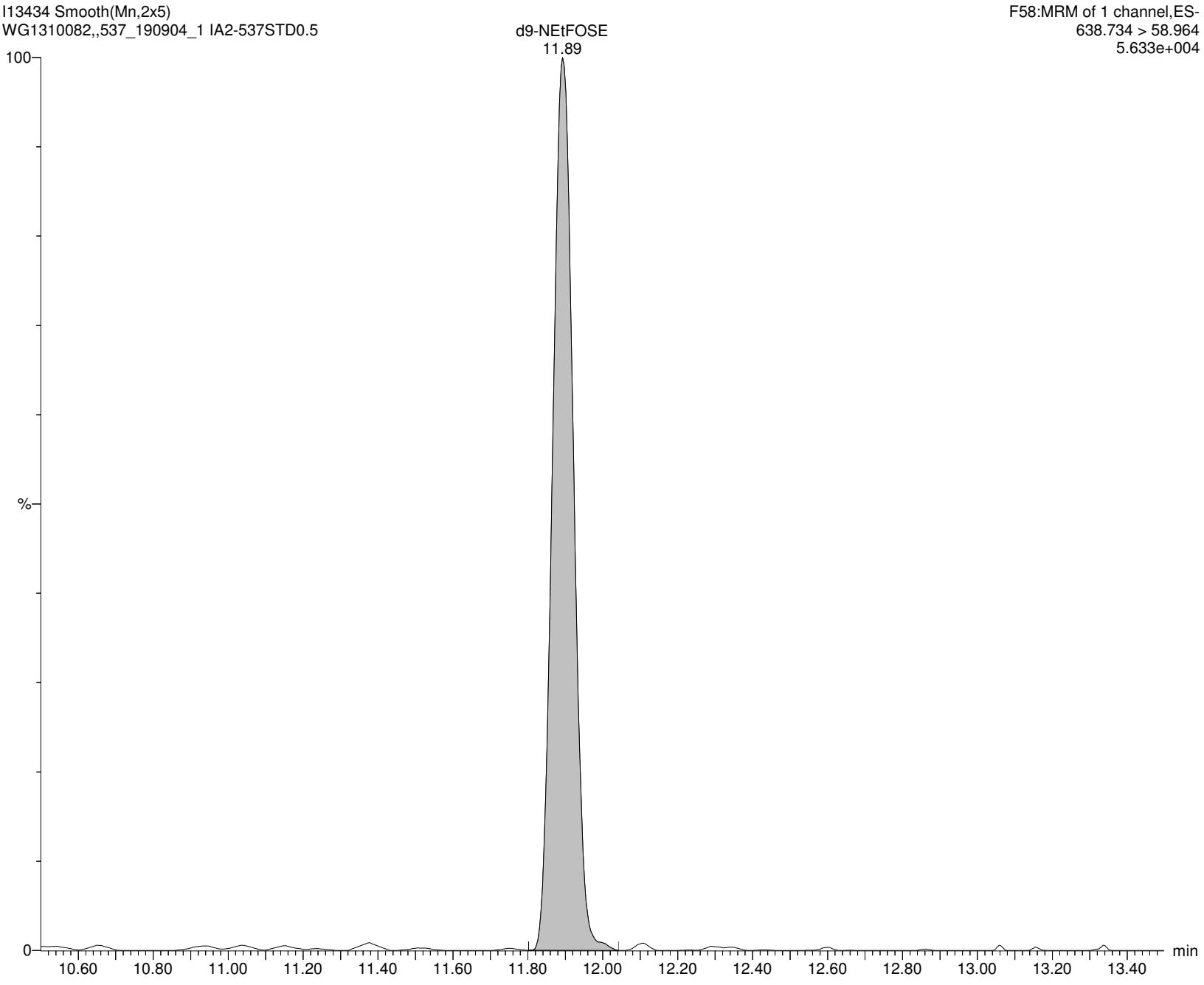
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD1.0
Name: I13435
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	4649		1.065		na	106.5
2	M3PFBA	INT STD	2.23	215.926 > 172.122	47673		10.289		na	102.9
3	MPFBA	INT STD	2.23	216.926 > 172.137	52305		10.082		na	100.8
4	PFPeA	2706-90-3	5.14	262.926 > 219.002	7746		1.038		na	103.8
5	M5PFPEA	INT STD	5.13	267.989 > 223.081	77264		10.500		na	105.0
6	PFBS	375-73-5	5.78	298.926 > 79.923	1392		0.891	1.86	NO	100.7
7	M3PFBS	INT STD	5.77	301.989 > 80.254	10630		9.740		na	97.4
8	4:2FTS	757124-72-4	6.93	326.926 > 306.957	638		1.011	2.14	NO	108.2
9	M2-4:2FTS	INT STD	6.93	329.117 > 309.079	5701		8.046		na	80.5
10	PFHxA	307-24-4	7.01	312.989 > 269.028	9449		1.153	17.48	NO	115.3
11	M5PFHxA	INT STD	7.01	317.989 > 273.045	89049		10.133		na	101.3
12	PFPeS	2706-91-4	7.32	348.926 > 80.251	947		0.844	1.62	NO	89.8
13	PFHpA	375-85-9	8.27	362.926 > 319.014	11592		1.056	5.86	NO	105.6
14	M4PFHpA	INT STD	8.27	366.926 > 321.979	121641		10.391		na	103.9
15	br-PFHxS	355-46-4	8.14	398.926 > 80.295	72	M5	0.091	3.61	NO	53.5
16	L-PFHxS	355-46-4	8.42	398.926 > 80.295	471		0.560	0.93	NO	75.7
17	PFHxS	355-46-4		398.926 > 80.295	543		0.651		na	
18	M3PFHxS	INT STD	8.42	401.926 > 80.317	6709		10.650		na	106.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.20	412.989 > 368.9	11900		1.118	11.89	NO	111.8
21	PFOA	335-67-1		412.989 > 368.9	11900		1.118		na	
22	M8PFOA	INT STD	9.20	420.989 > 375.979	115929		10.320		na	103.2
23	M2PFOA	INT STD	9.20	415.032 > 369.968	114802		10.860		na	108.6
24	6:2FTS	27619-97-2	9.16	426.989 > 406.921	472		1.007		YES	106.0
25	M2-6:2FTS	INT STD	9.16	428.989 > 408.917	5794		8.366		na	83.7
26	PFHpS	375-92-8	9.29	448.926 > 80.257	622		1.132	1.10	YES	119.2
27	PFNA	375-95-1	9.95	462.989 > 418.931	10940		1.179	4.61	NO	117.9
28	M9PFNA	INT STD	9.95	472.053 > 426.947	113247		10.246		na	102.5
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	144	M5	0.133	2.49	NO	66.3
30	L-PFOS	1763-23-1	10.00	498.989 > 80.294	646		0.790	1.26	NO	108.2
31	PFOS	1763-23-1		498.989 > 80.294	790		0.922		na	
32	M4PFOS	INT STD	10.00	503.032 > 80.306	7797		11.164		na	111.6
33	M8PFOS	INT STD	10.00	507.053 > 80.294	8338		10.421		na	104.2
34	PFDA	335-76-2	10.58	513.053 > 468.906	9945		1.054	5.95	NO	105.4
35	M2PFDA	INT STD	10.58	515.053 > 469.934	104230		11.805		na	118.1
36	M6PFDA	INT STD	10.58	519.053 > 473.931	109985		10.210		na	102.1
37	8:2FTS	39108-34-4	10.57	526.926 > 506.818	355		0.873		na	90.9
38	M2-8:2FTS	INT STD	10.57	529.053 > 508.945	3740		9.207		na	92.1
39	PFNS	68259-12-1	10.60	548.989 > 80.249	842		1.086	1.49	YES	113.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

ID: IA2-537STD1.0
Name: I13435
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.96	573.096 > 418.987	11161		9.098		na	91.0
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.97	570.053 > 418.917	1167		1.122	2.21	NO	112.2
43	NMeFOSAA	2355-31-9		570.053 > 418.917	1167		1.122		na	
44	PFUnA	2058-94-8	11.12	562.989 > 518.903	10026		1.034	6.81	NO	103.4
45	M7-PFUDA	INT STD	11.12	570.053 > 524.923	101388		10.609		na	106.1
46	PFDS	335-77-3	11.13	598.926 > 80.314	482		0.870	0.81	NO	90.2
47	FOSA	754-91-6	11.01	497.989 > 78.245	2798		1.172		YES	117.2
48	M8FOSA	INT STD	11.01	506.053 > 78.286	22475		8.824		na	88.2
49	d5-NEtFOSAA	INT STD	11.25	589.117 > 418.929	9857		9.096		na	91.0
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.26	583.989 > 418.927	836		0.899	2.06	NO	89.9
52	NEtFOSAA	2991-50-6		583.989 > 418.927	836		0.899		na	
53	PFDoA	307-55-1	11.60	612.989 > 568.967	9531		1.089	13.33	NO	108.9
54	MPFDOA	INT STD	11.60	614.989 > 569.92	103352		9.640		na	96.4
55	PFTrDA	72629-94-8	12.01	663.053 > 618.969	8871		1.260	10.92	NO	126.0
56	PFTA	376-06-7	12.37	713.053 > 668.976	7615		1.139	8.80	NO	113.9
57	M2PFTEDA	INT STD	12.37	715.053 > 669.945	83480		9.803		na	98.0
58	M3HFPO-DA	INT STD	7.44	331.989 > 286.995	3469		70.486		na	35.2
59	HFPO-DA	13252-13-6	7.44	284.819 > 169.094	410		14.231	2.23	YES	71.2
60	ADONA	958445-44-8	8.45	376.926 > 251.005	15122		0.992		na	104.9
61	PFHxDA		12.79	813.053 > 769.005	6645		1.044		na	104.4
62	PFODA		12.99	912.989 > 869.032	4023		0.862		na	86.2
63	M2PFHxDA		12.79	815.372 > 770.158	17329		9.560		na	95.6
64	PFDoS		12.00	698.649 > 79.853	611		1.082	2.71	NO	108.2
65	10:2FTS		11.61	626.862 > 606.896	464		1.191		na	123.5
66	9CL-PF3ONS		10.35	530.862 > 350.843	4366		0.797		na	85.5
67	11CL-PFOUdS		11.39	630.862 > 450.854	4417		0.956		na	101.5
68	NMeFOSA		11.62	511.804 > 168.906	821		1.011	1.37	NO	101.1
69	d3-NMeFOSA		11.62	514.84 > 168.917	10918		8.220		na	82.2
70	NEtFOSA		11.92	525.84 > 168.92	951		1.032	6.47	YES	103.2
71	d5-NEtFOSA		11.92	530.904 > 168.919	10513		8.092		na	80.9
72	NMeFOSE		11.63	615.862 > 58.9	848		0.748		na	74.8
73	d7-NMeFOSE		11.61	622.84 > 58.964	5601		9.004		na	90.0
74	NEtFOSE		11.91	629.862 > 58.899	1239		0.961		na	96.1
75	d9-NEtFOSE		11.90	638.734 > 58.964	3265		8.976		na	89.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

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Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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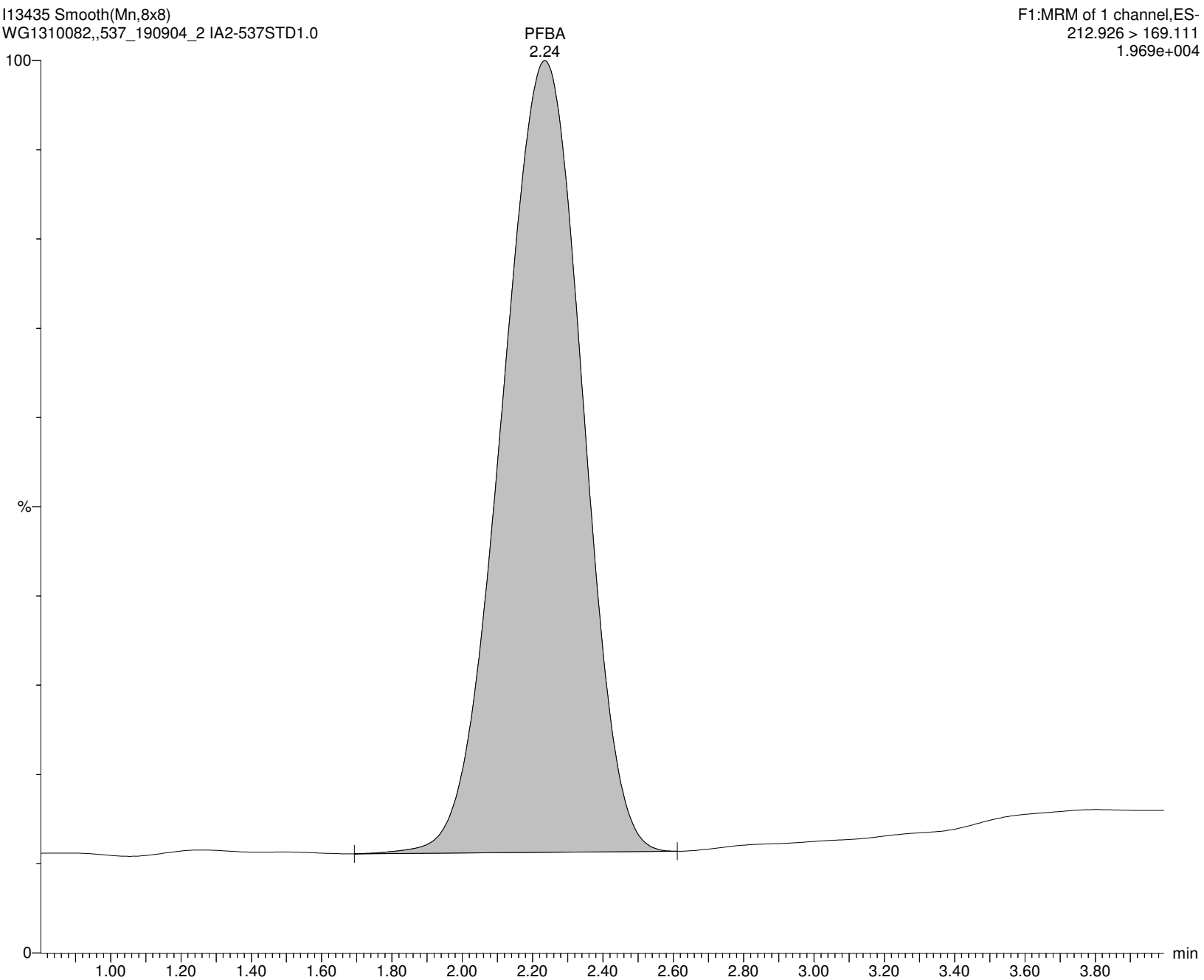

all concentration units in (ng/mL)

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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Date: 18-Nov-2019
Time: 10:53:49
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User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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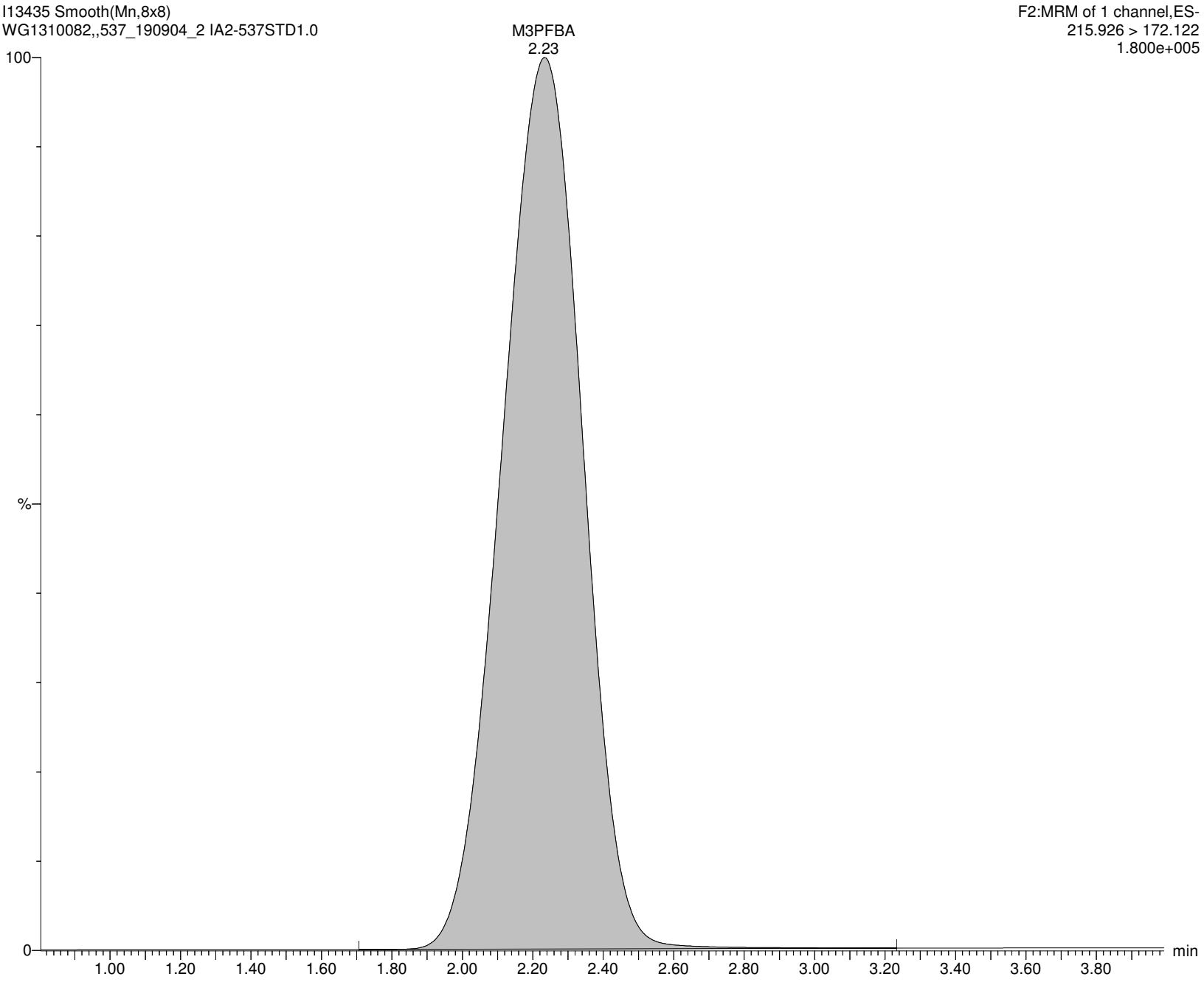

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I13435
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Date: 18-Nov-2019
Time: 10:53:49
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Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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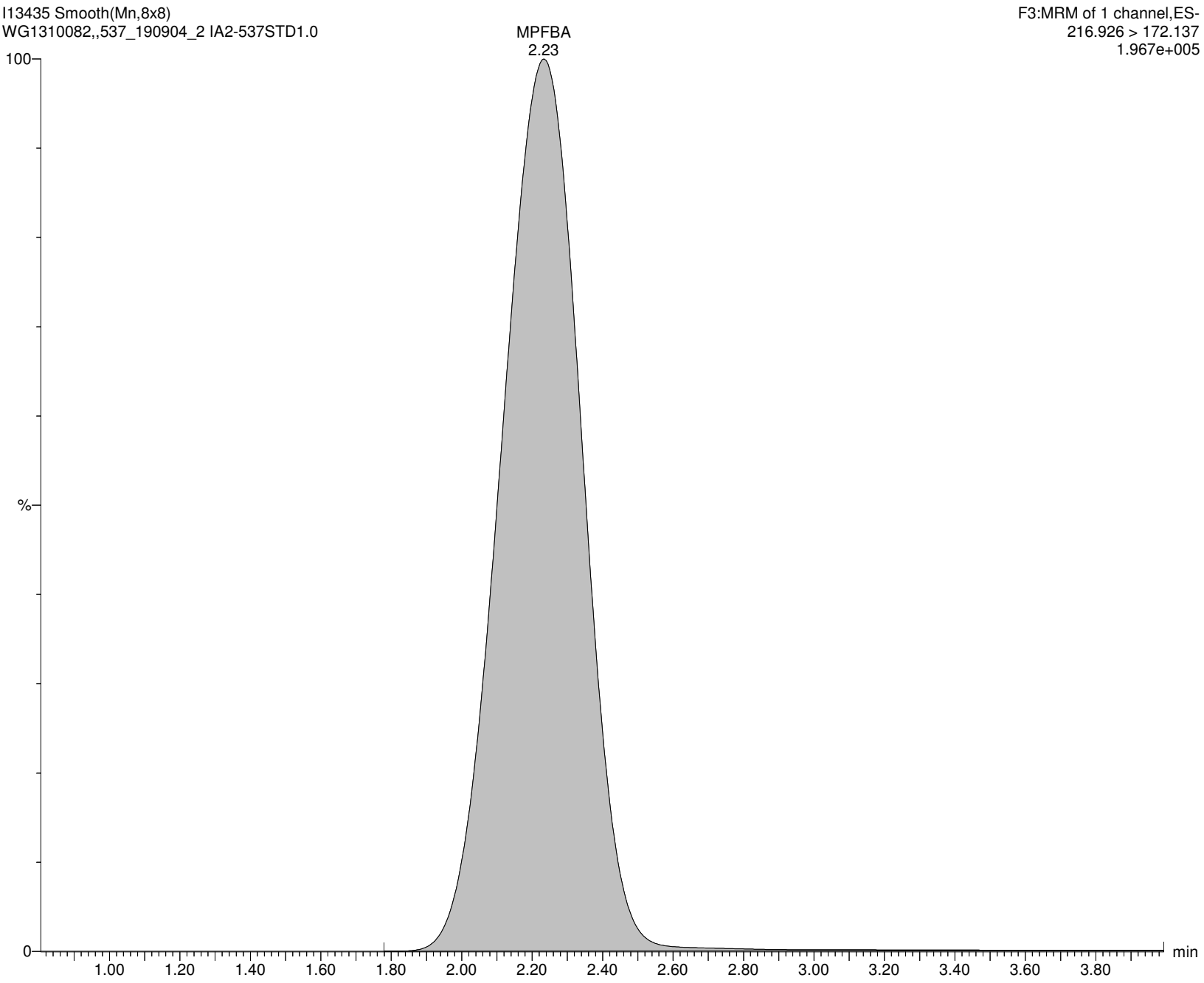

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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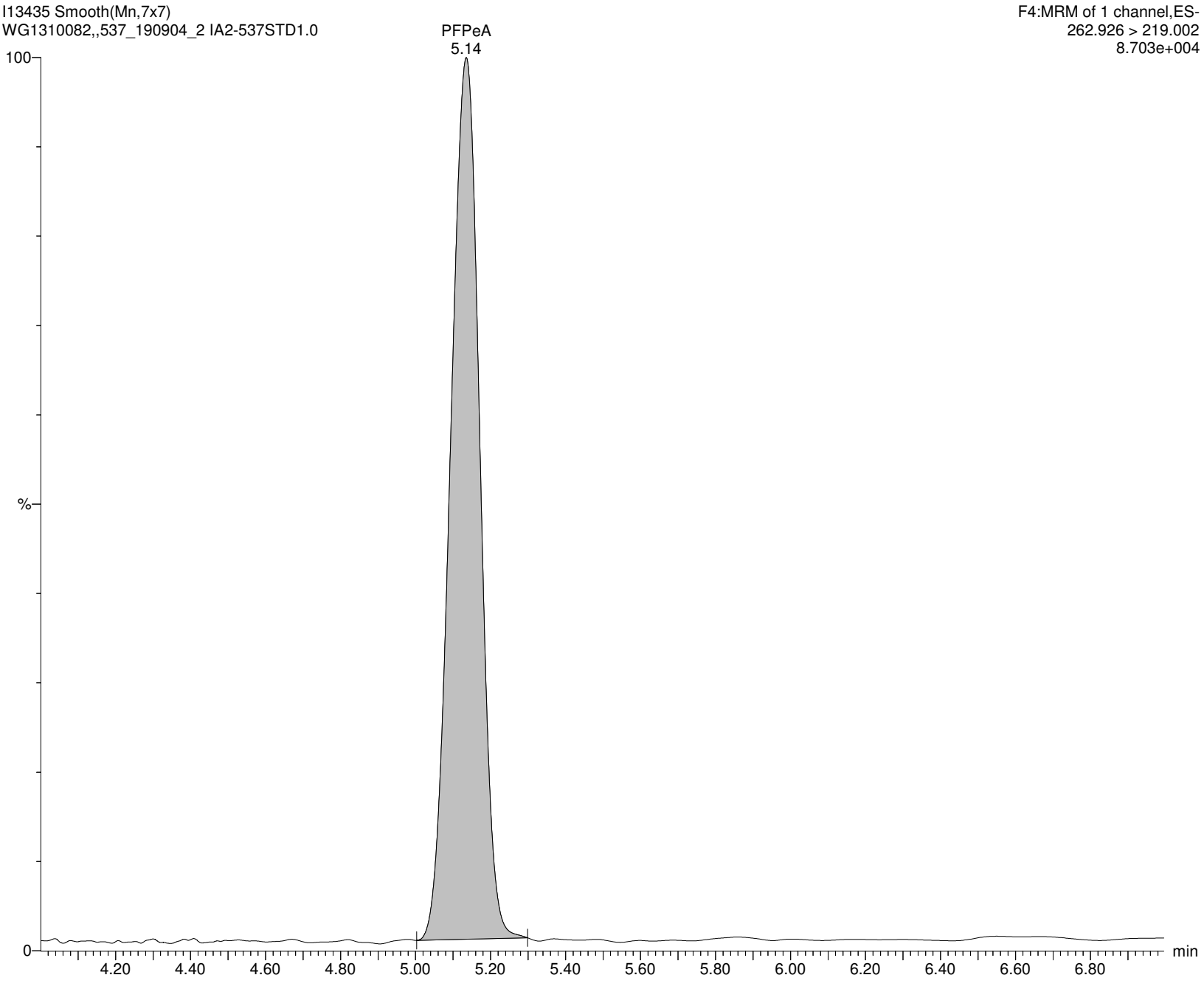
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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Name: I13435
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Date: 18-Nov-2019
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User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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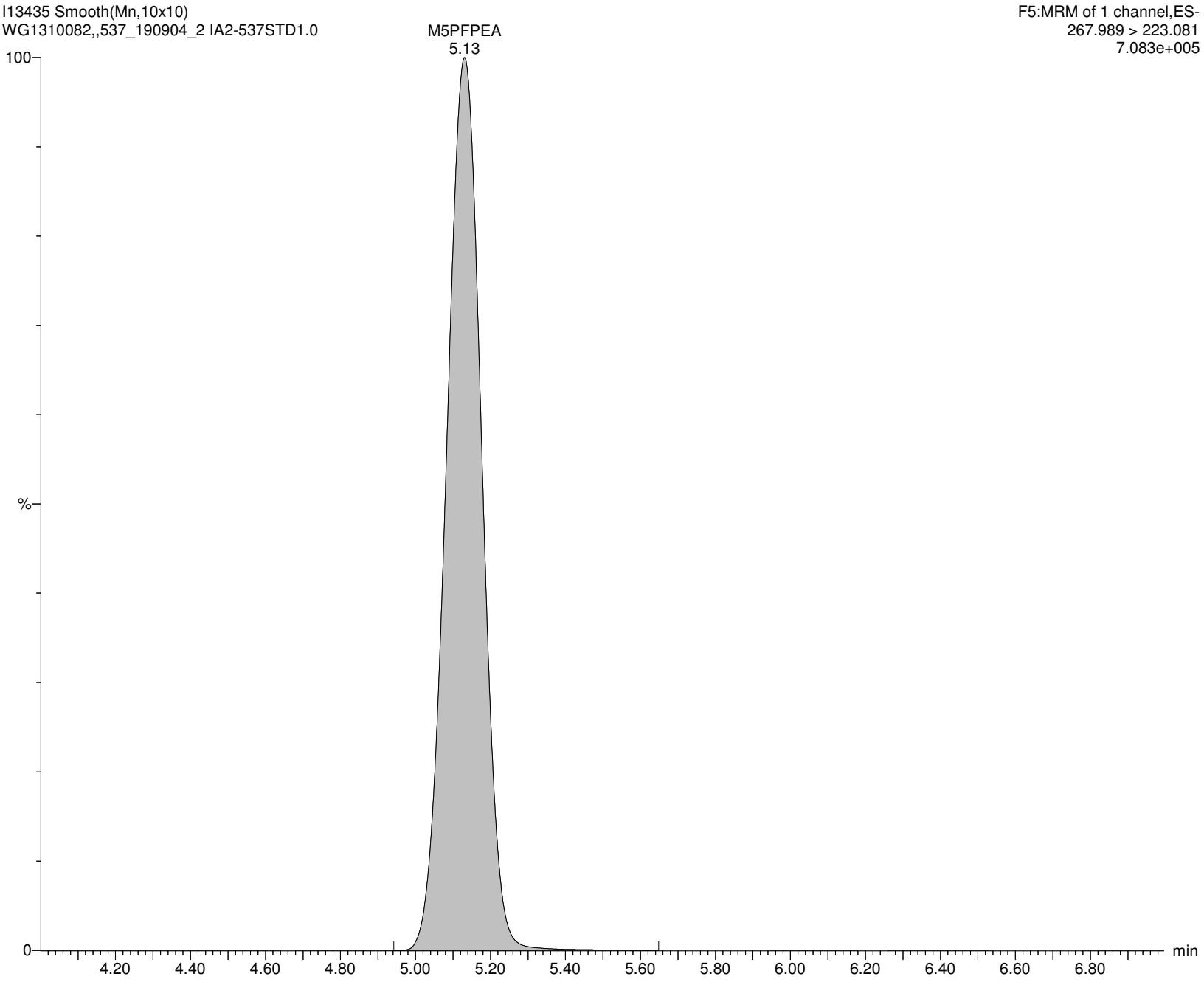

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Name: I13435
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Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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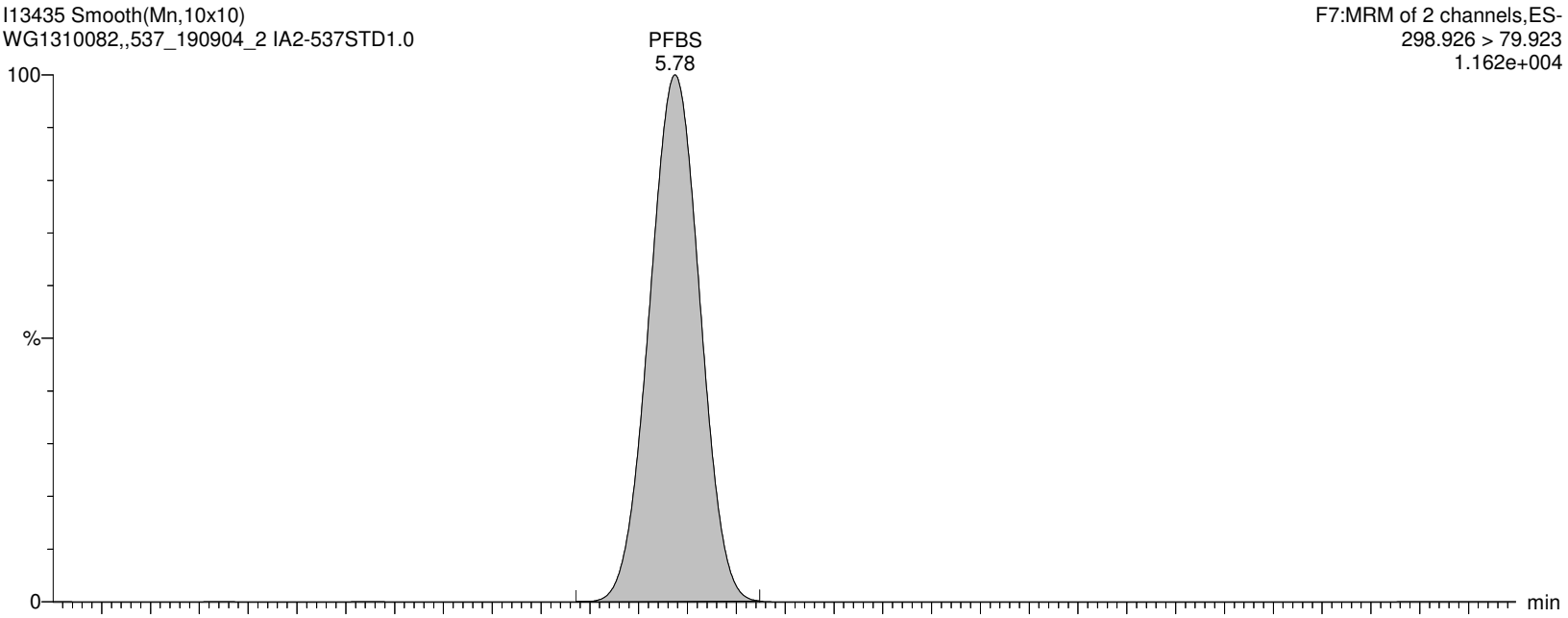
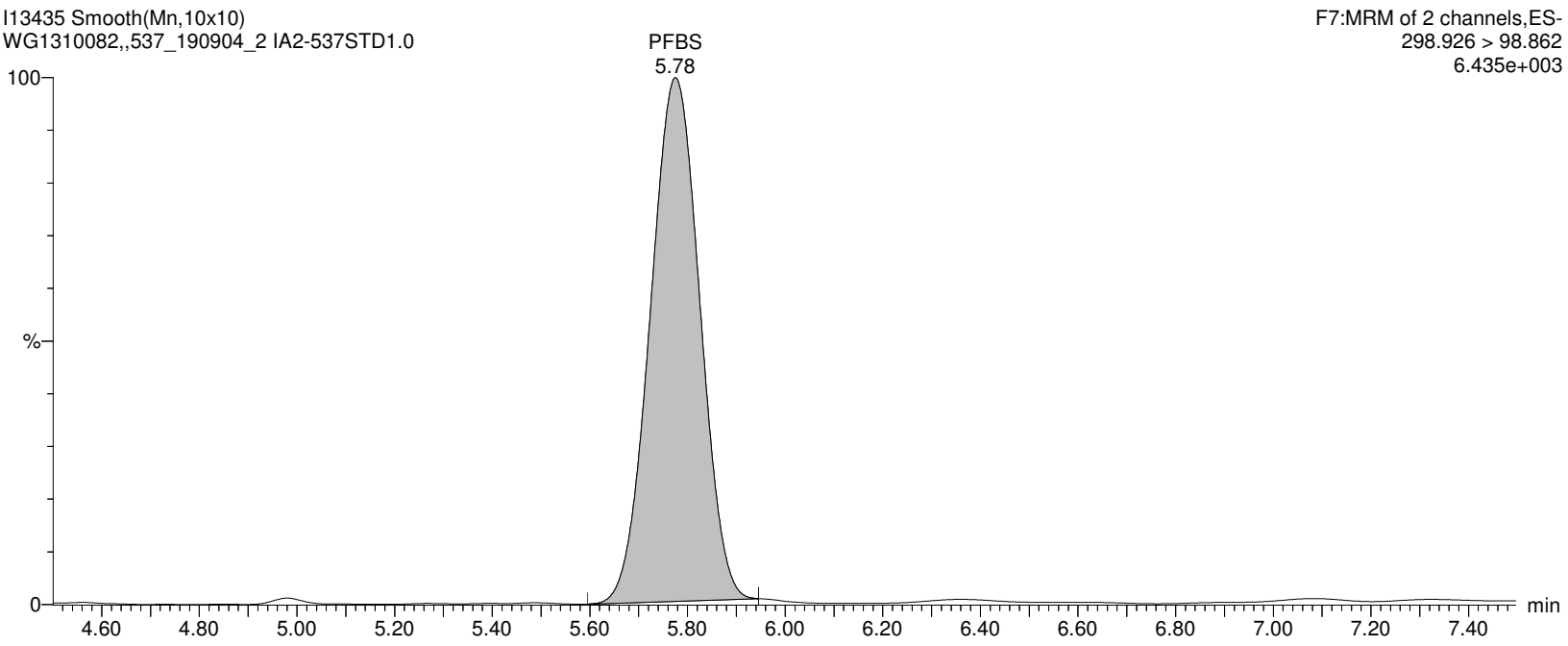
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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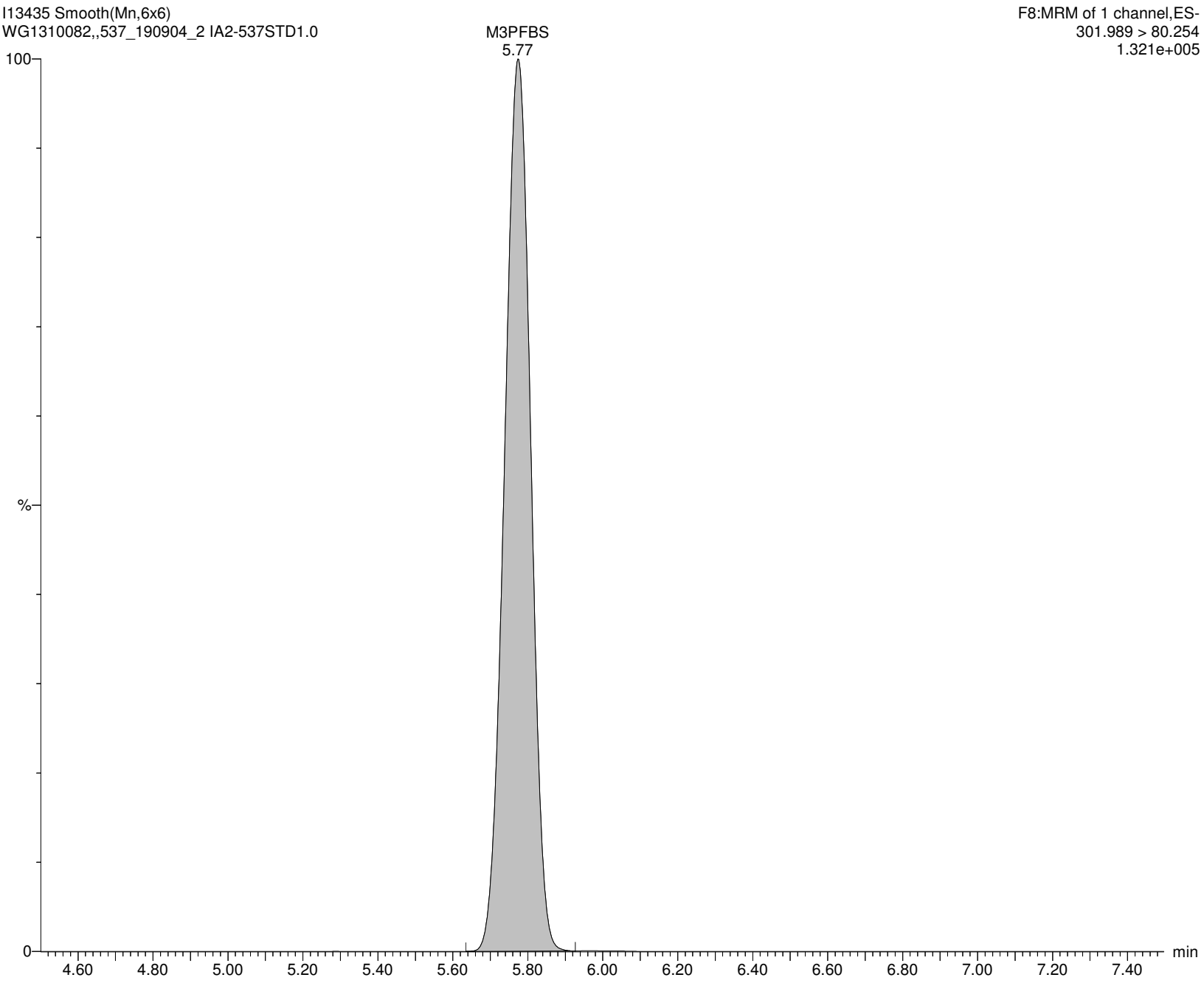
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
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User: LCMS02:JW
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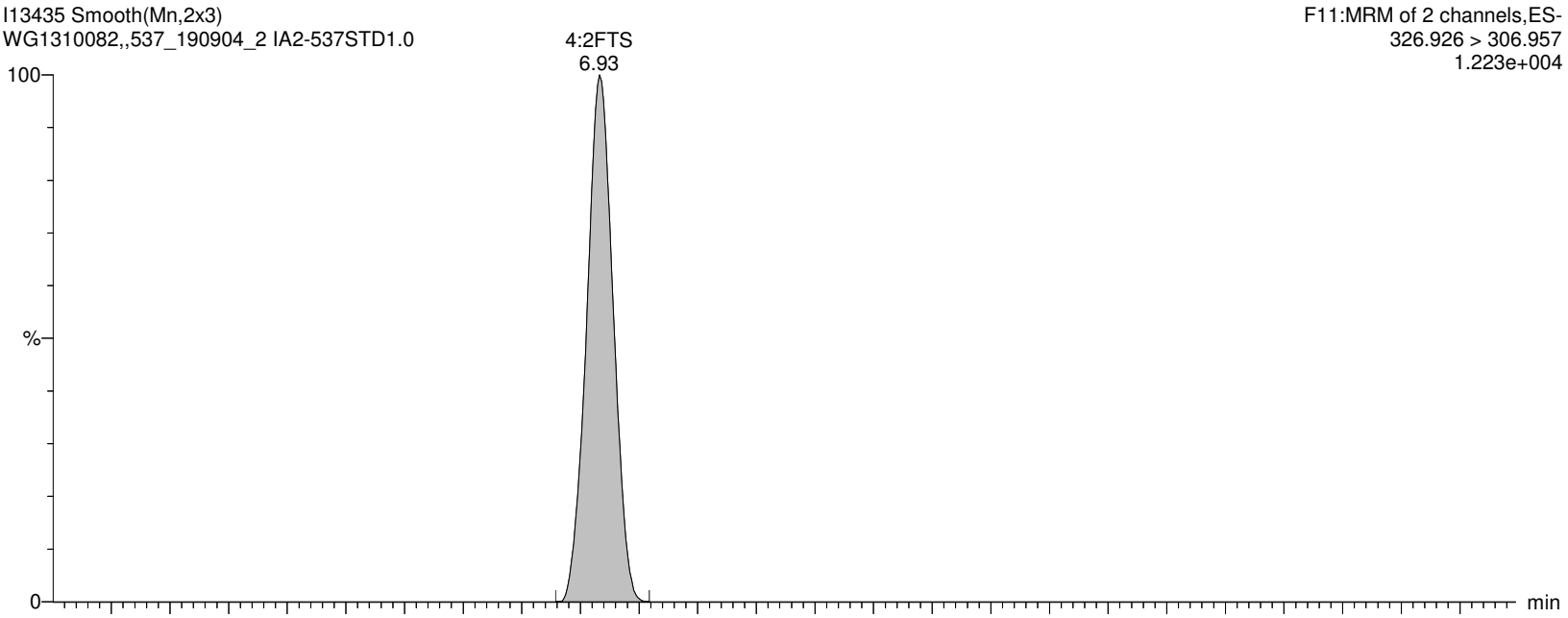

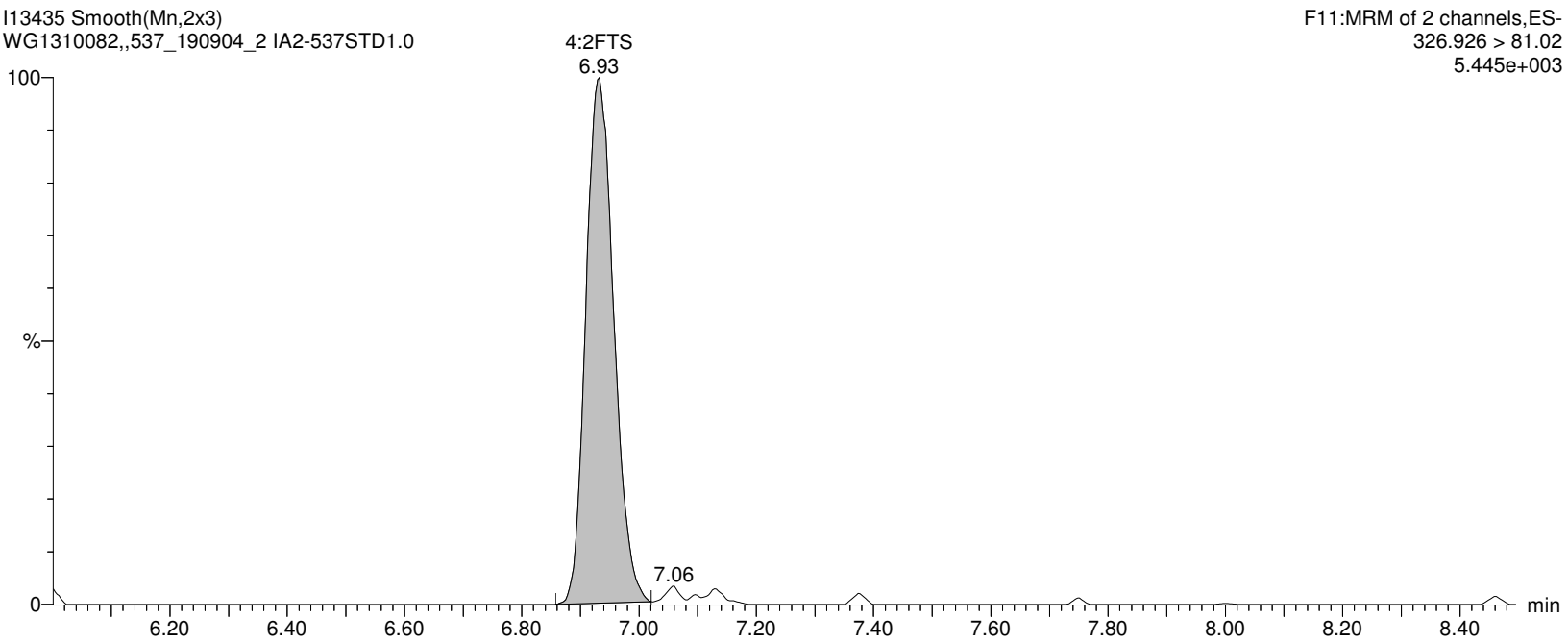

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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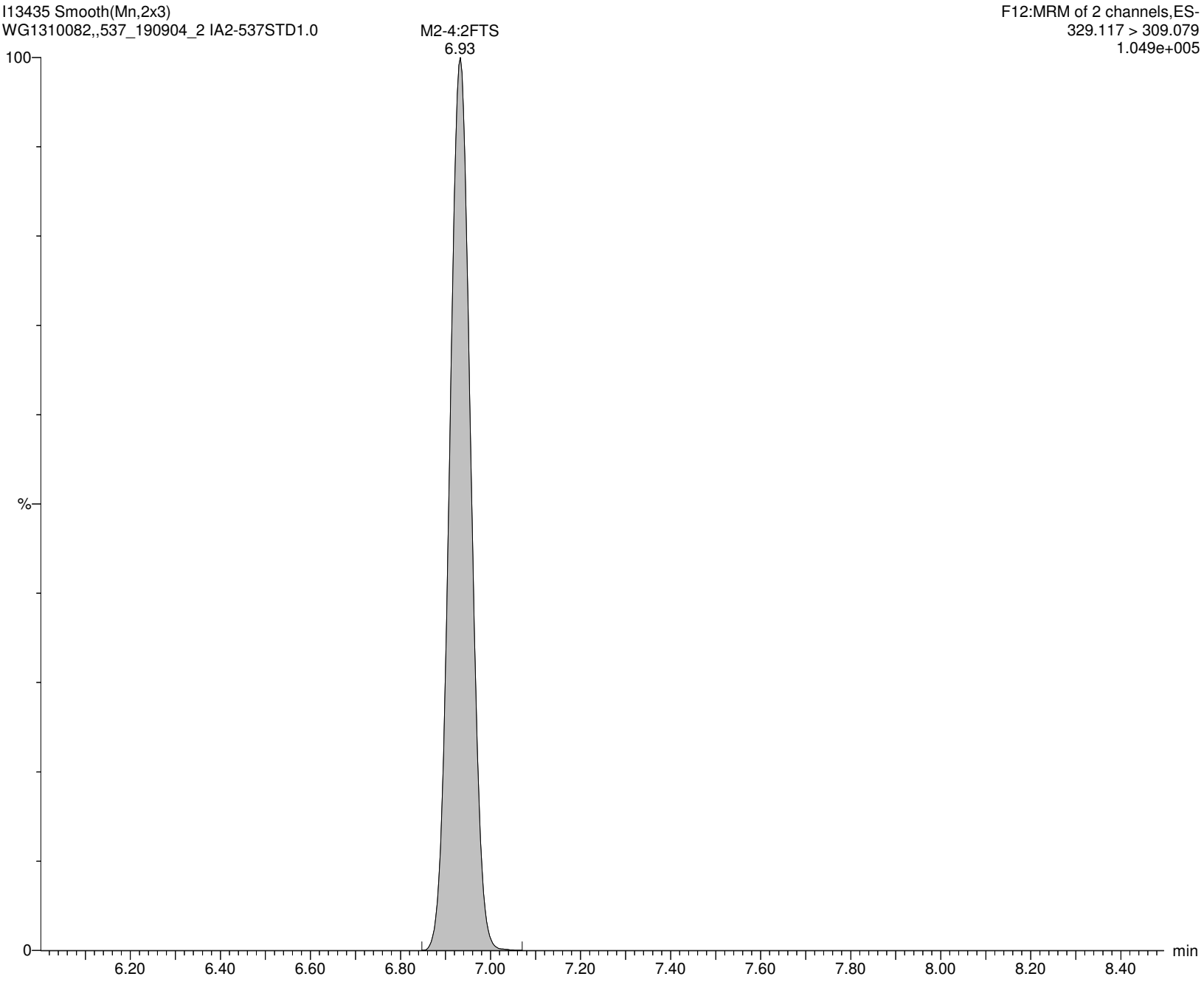

all concentration units in (ng/mL)

Alpha Analytical Inc.
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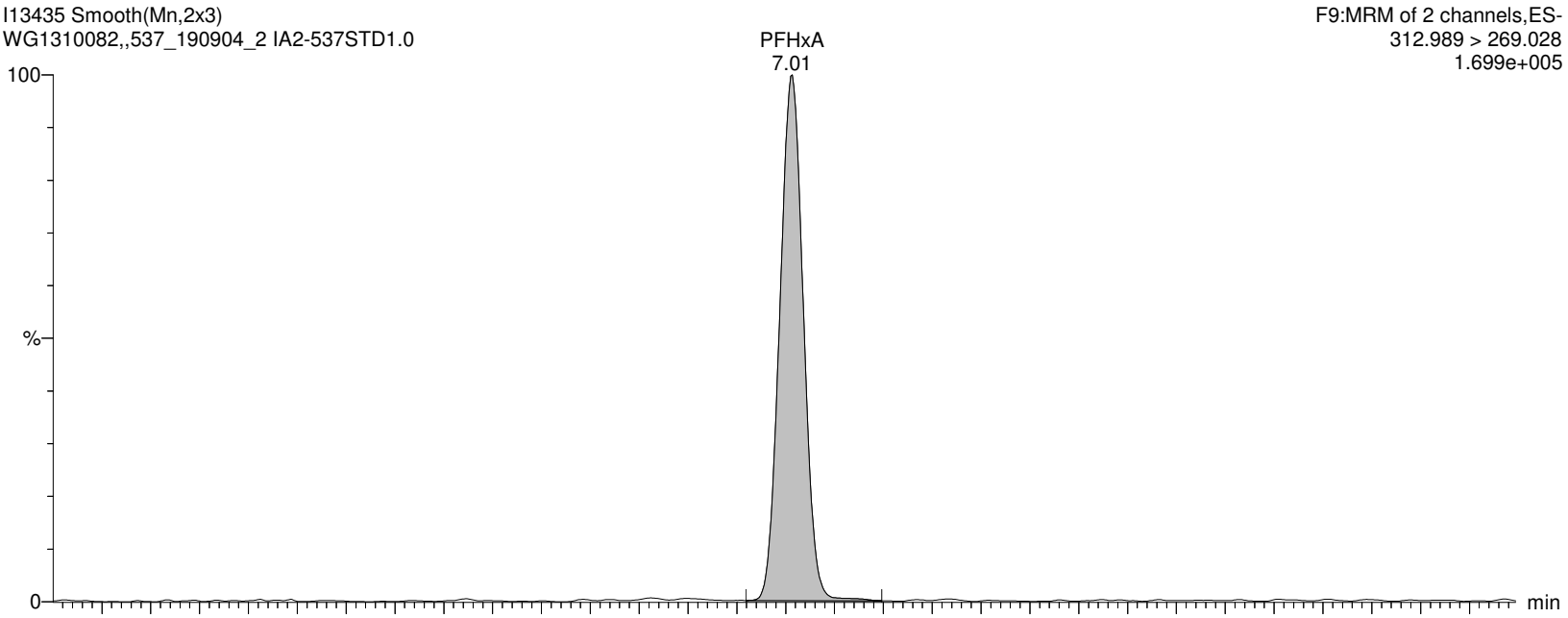

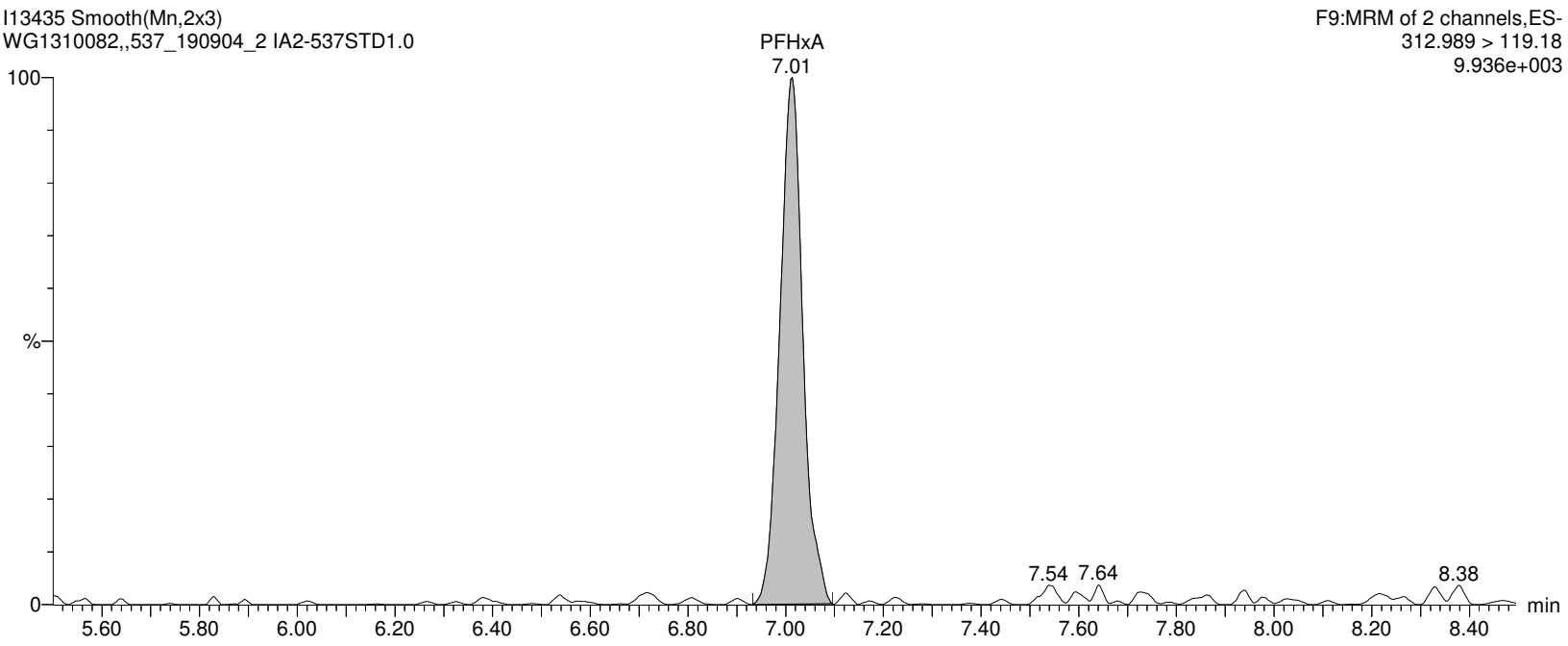

all concentration units in (ng/mL)

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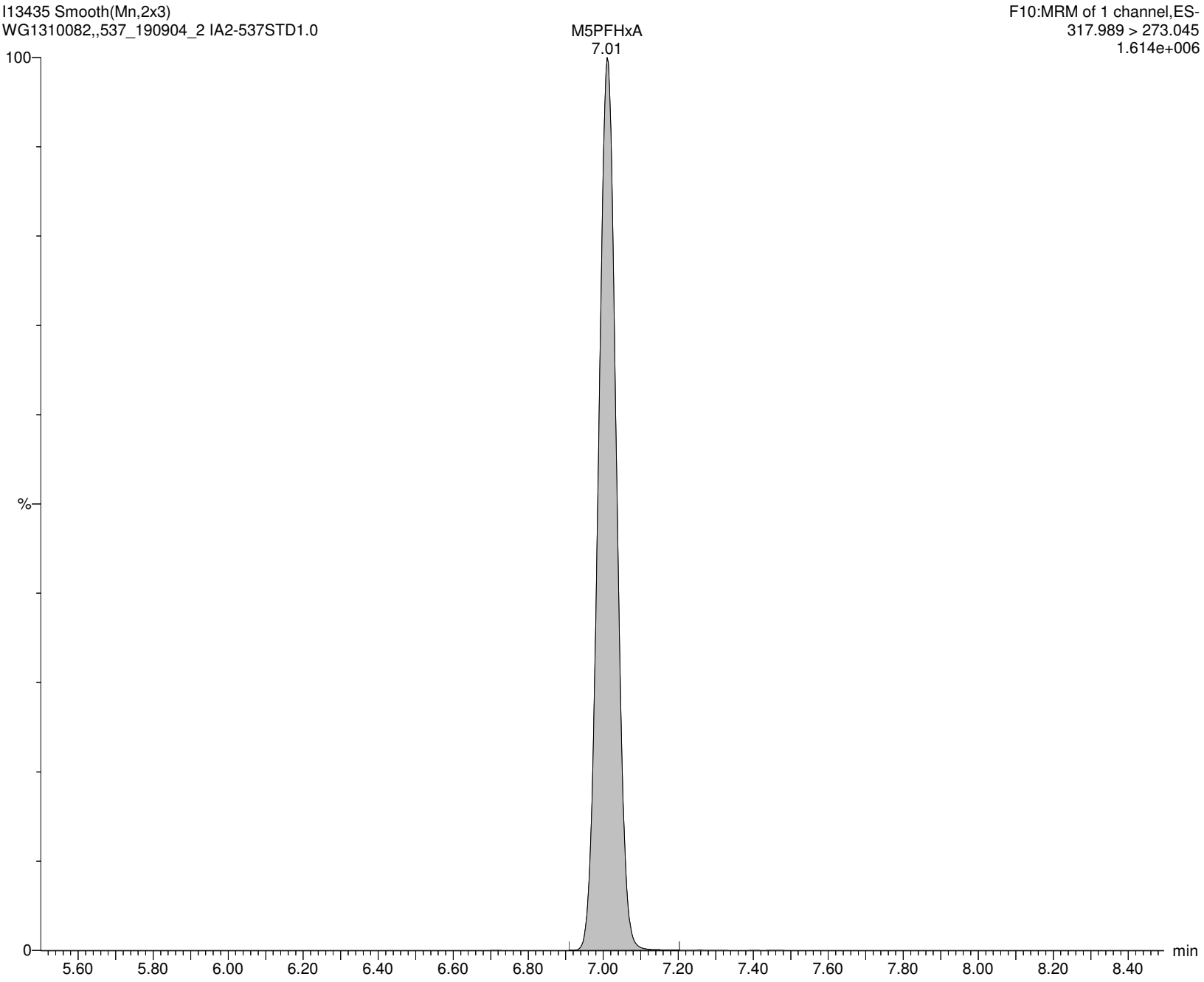

all concentration units in (ng/mL)

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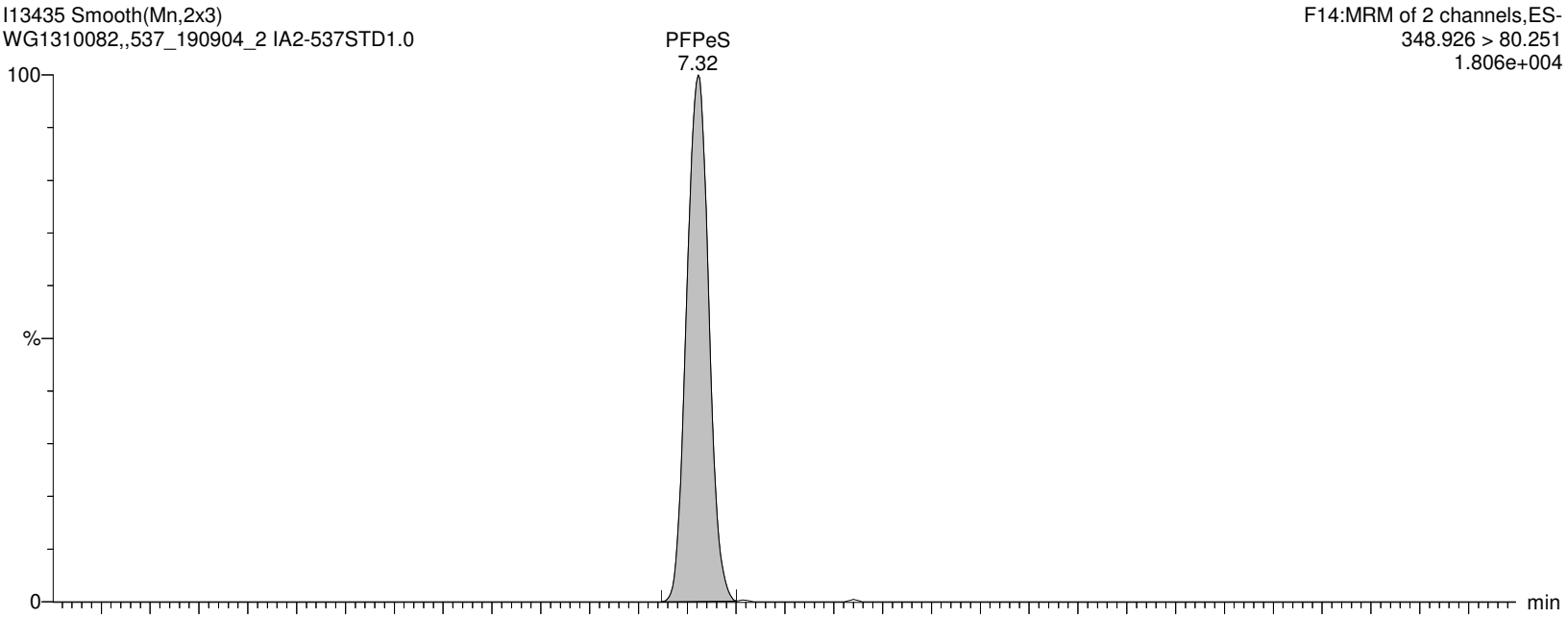

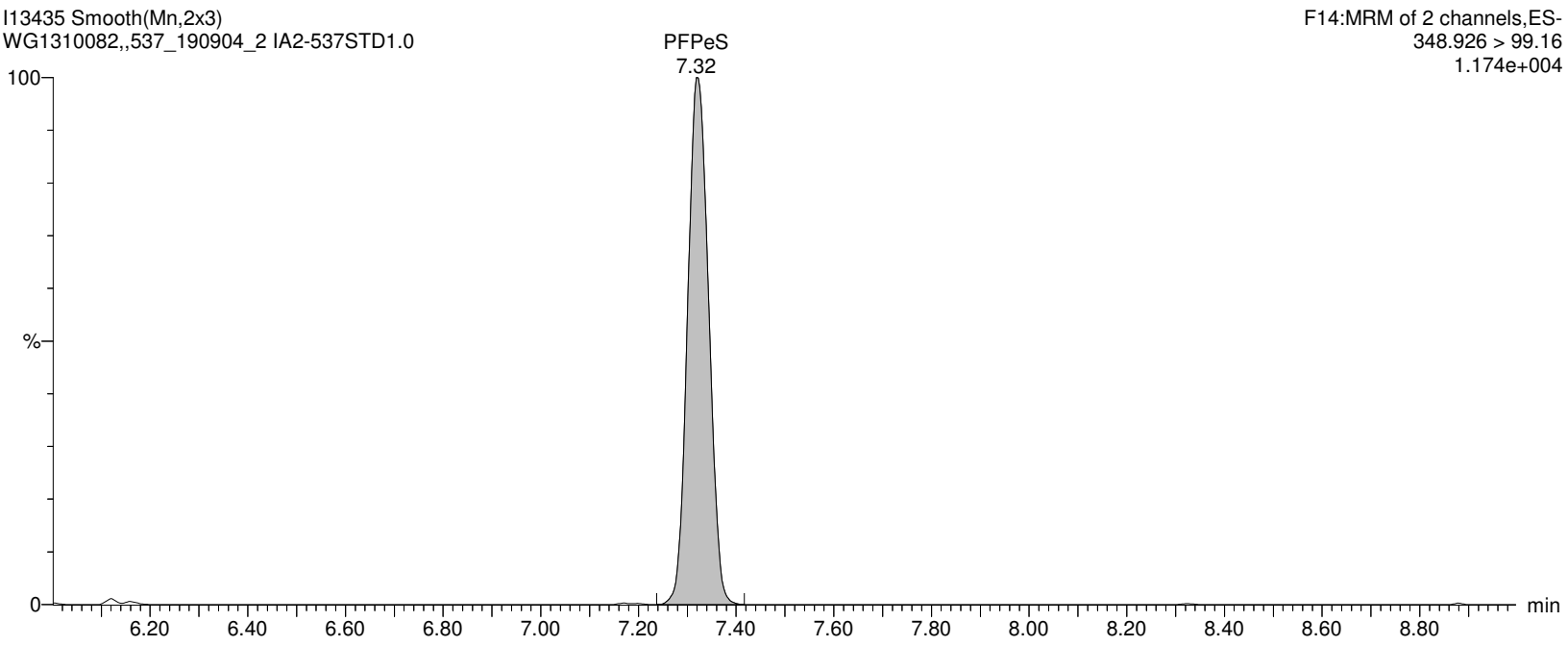

all concentration units in (ng/mL)

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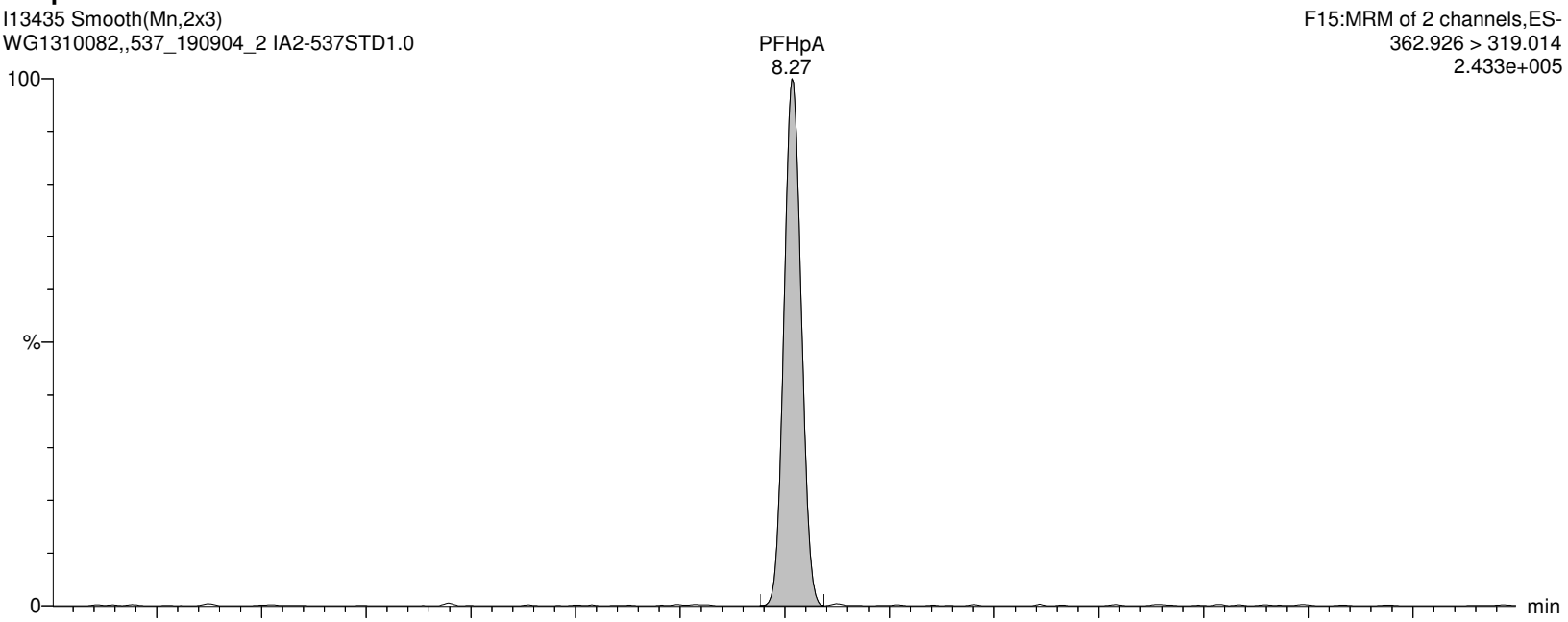

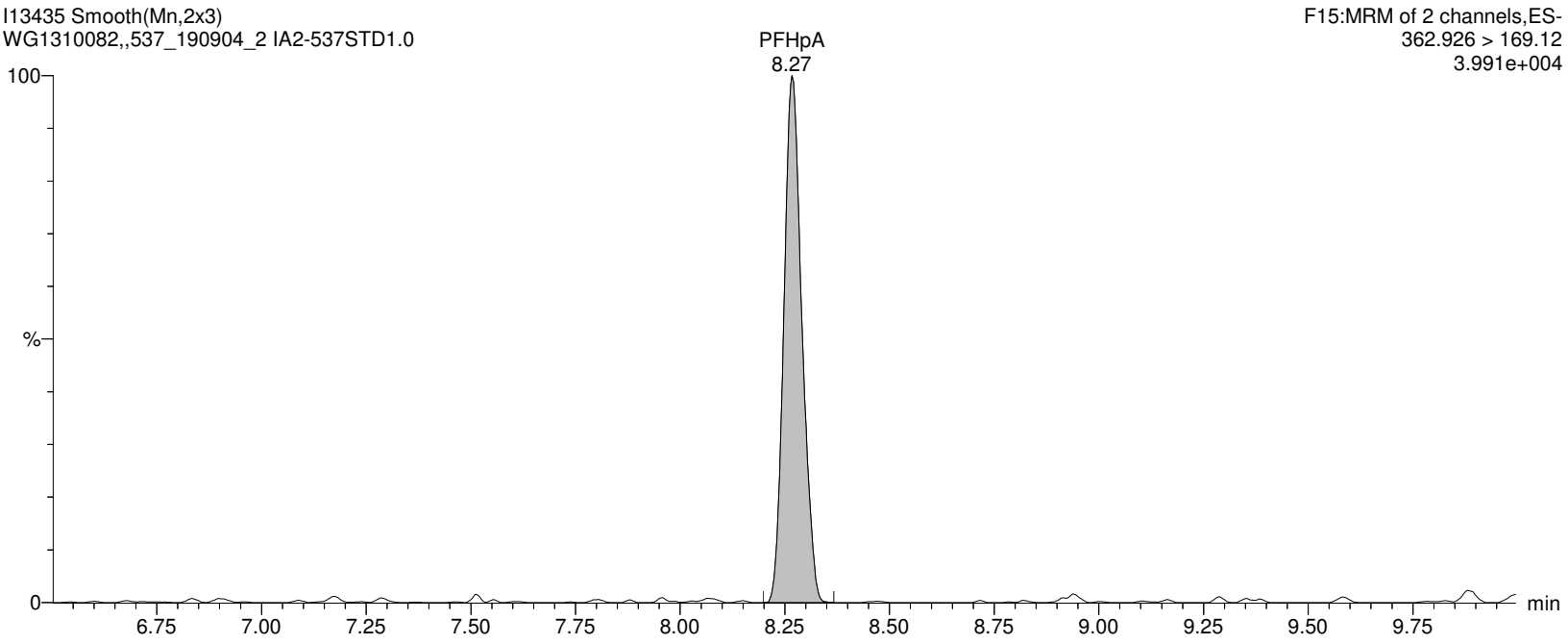

all concentration units in (ng/mL)

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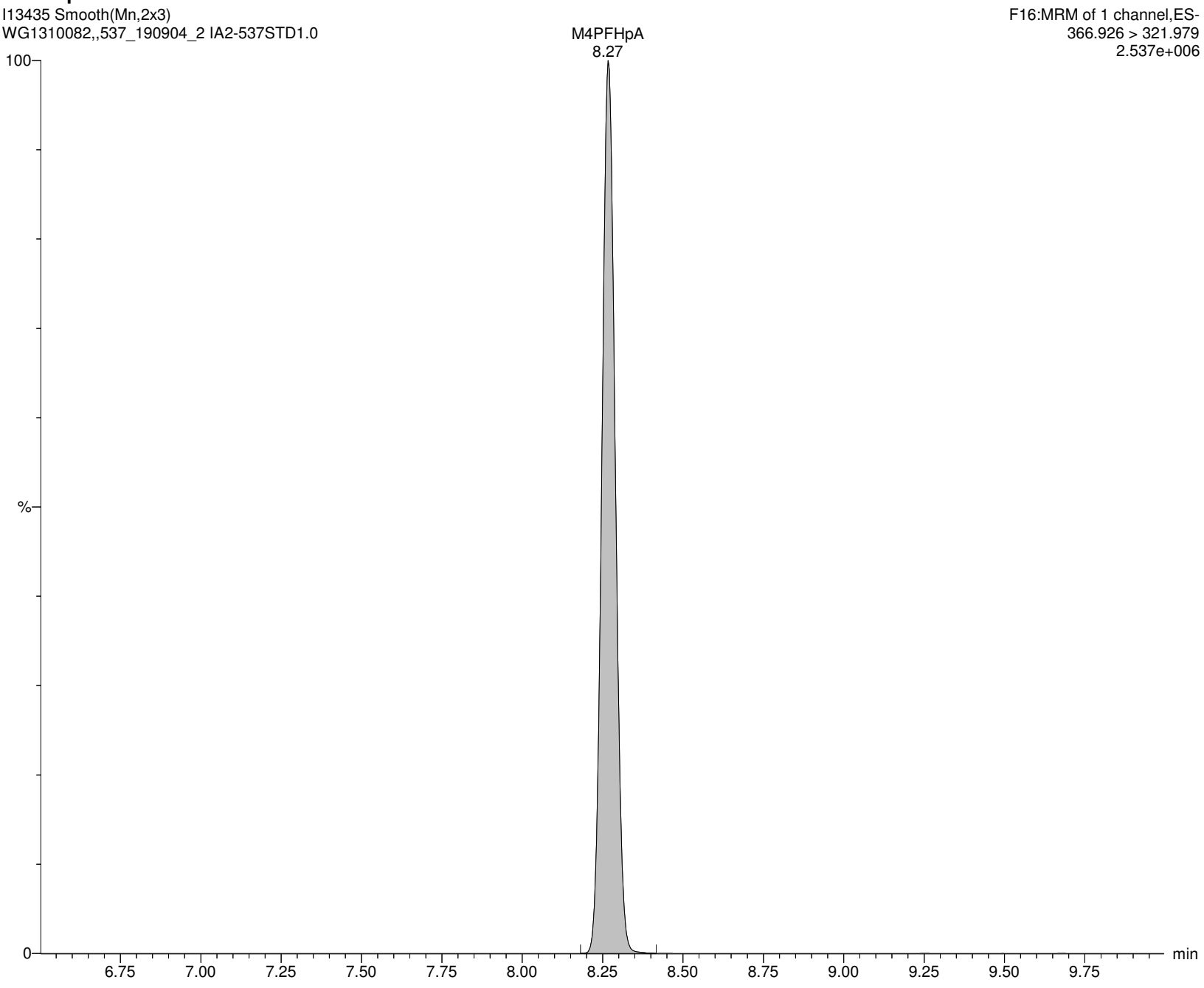

all concentration units in (ng/mL)

Alpha Analytical Inc.
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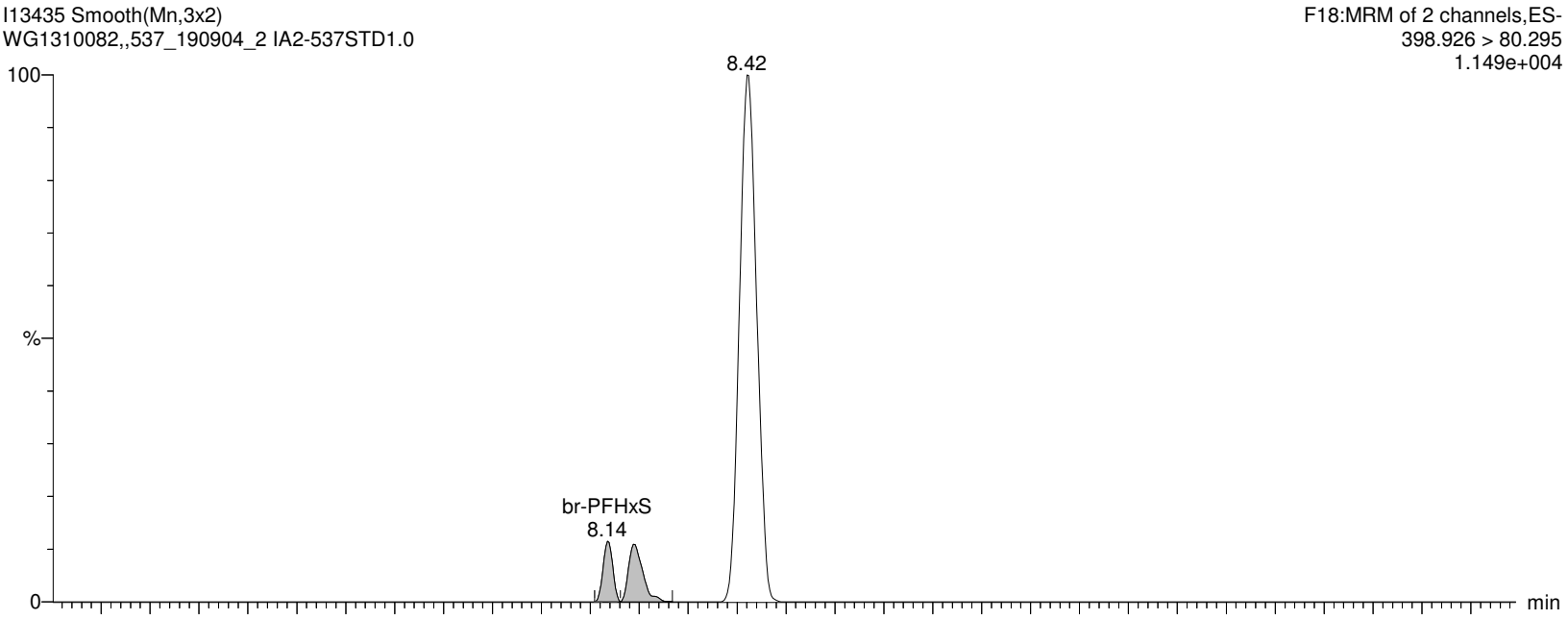

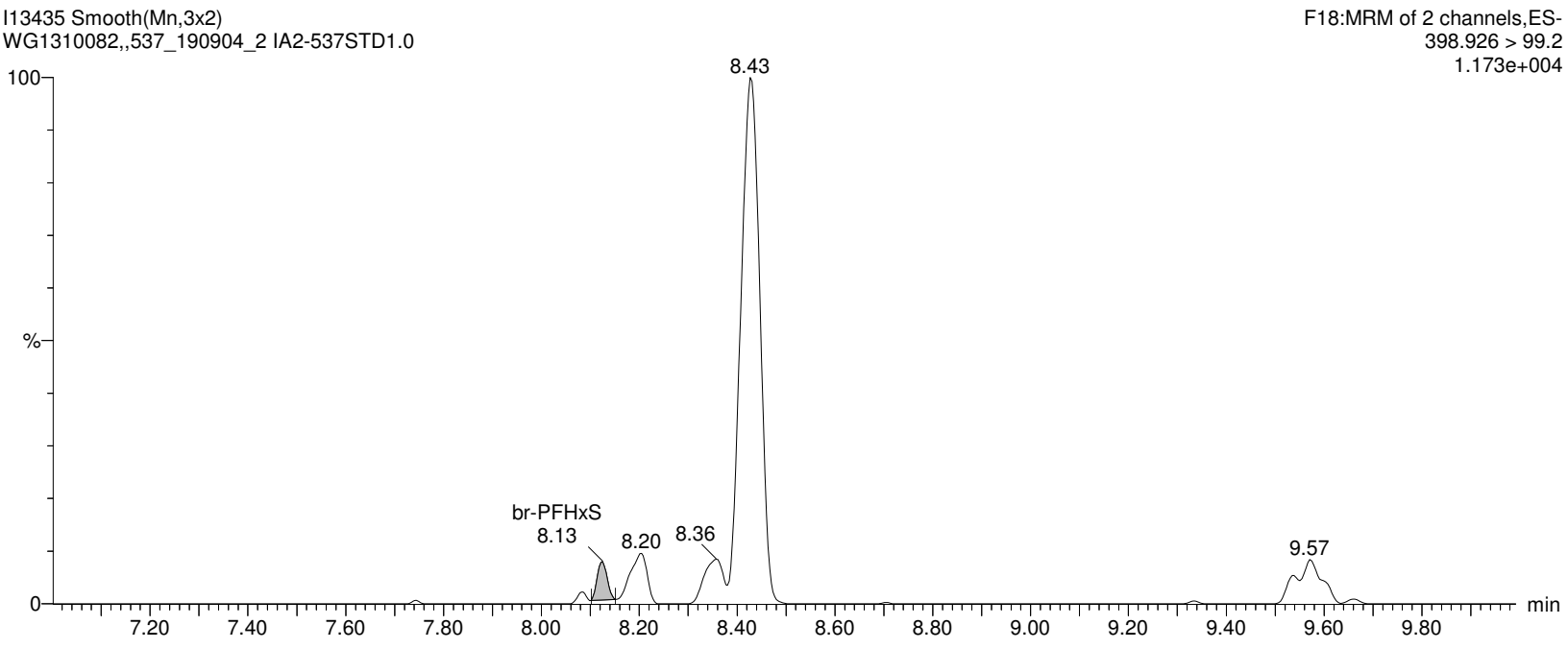

all concentration units in (ng/mL)

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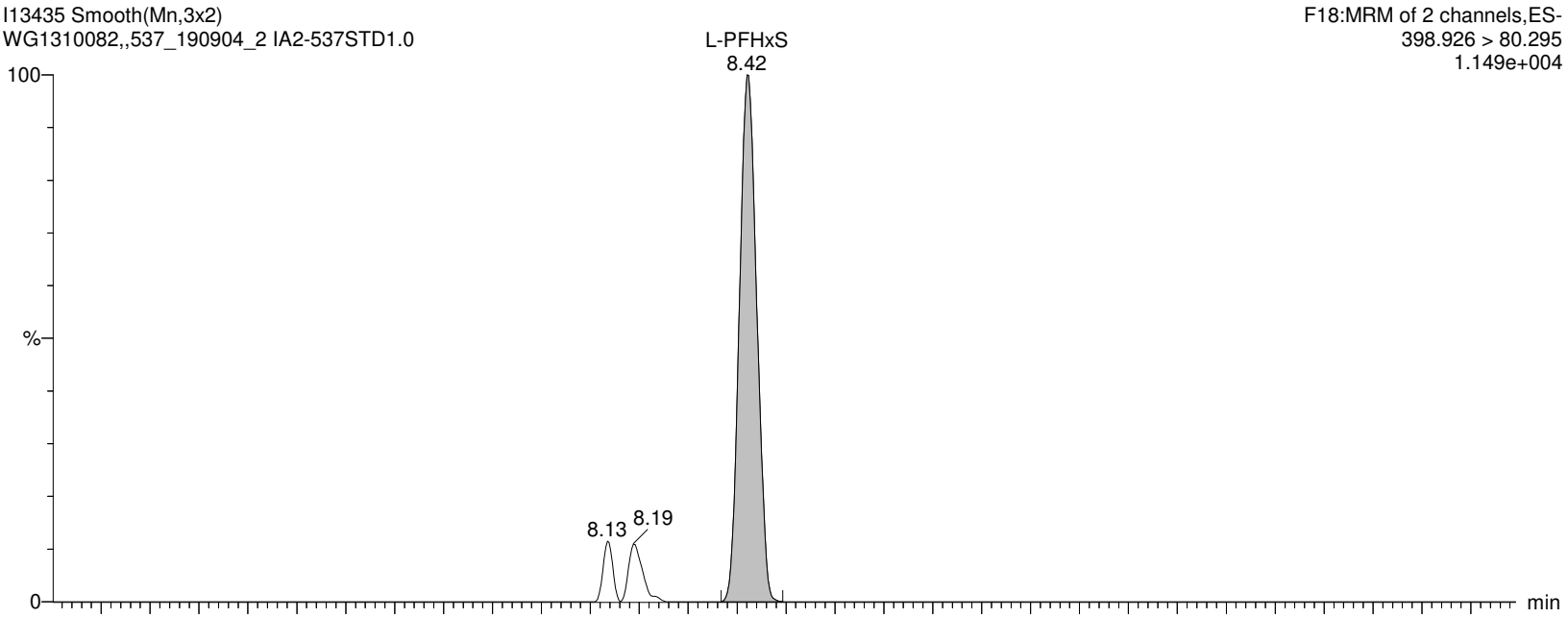

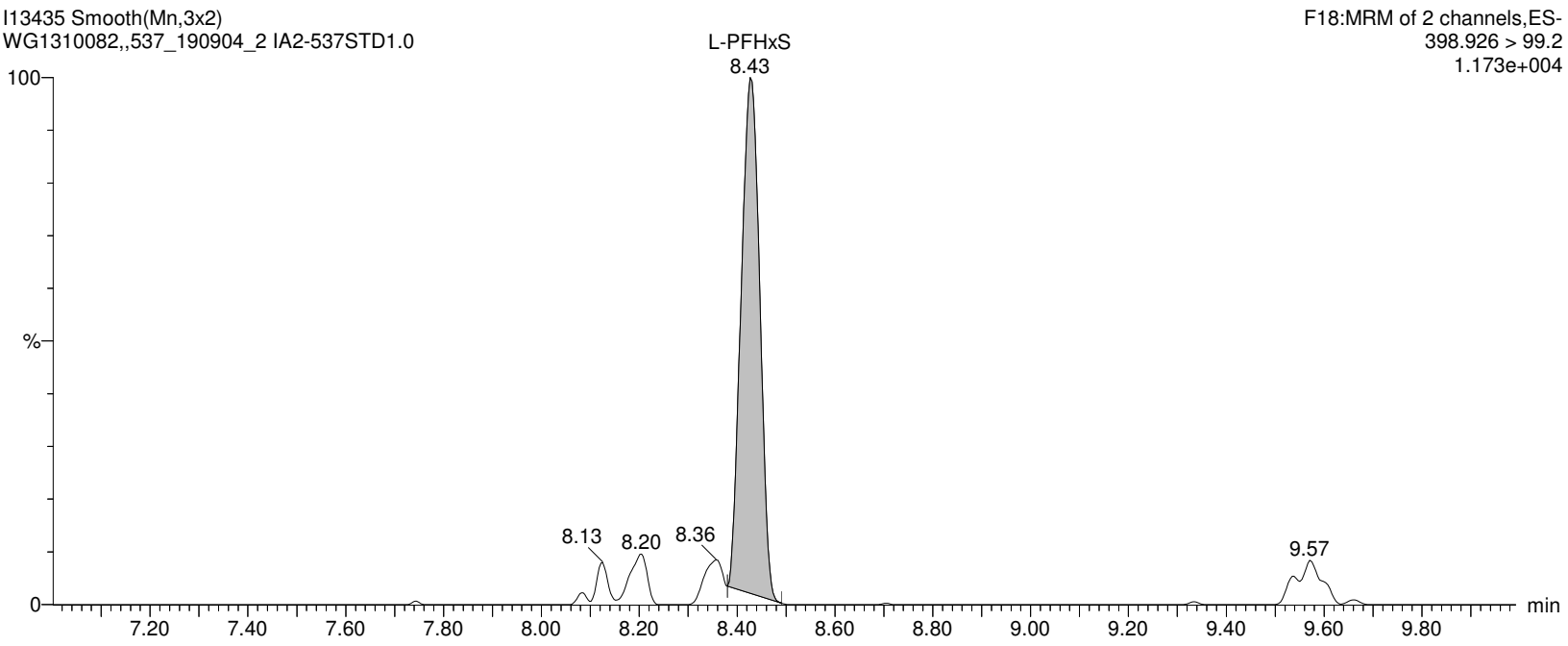

all concentration units in (ng/mL)

Alpha Analytical Inc.
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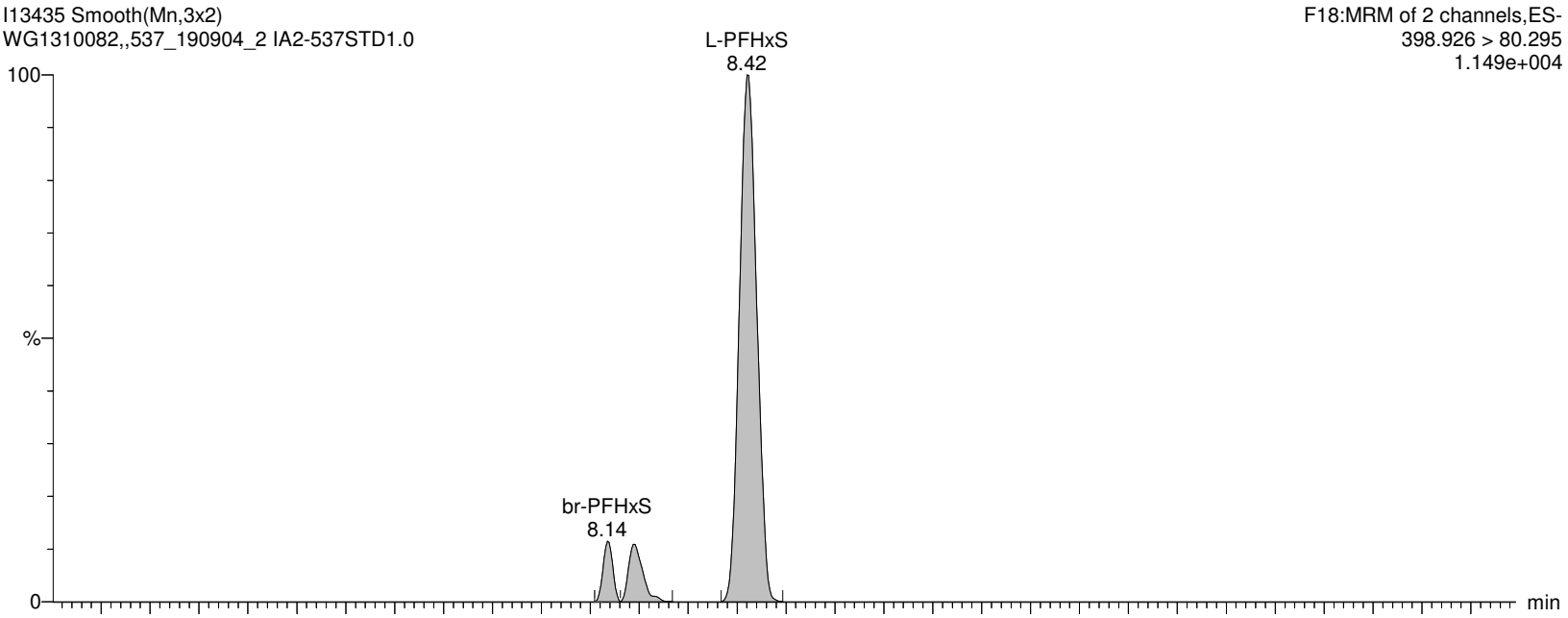

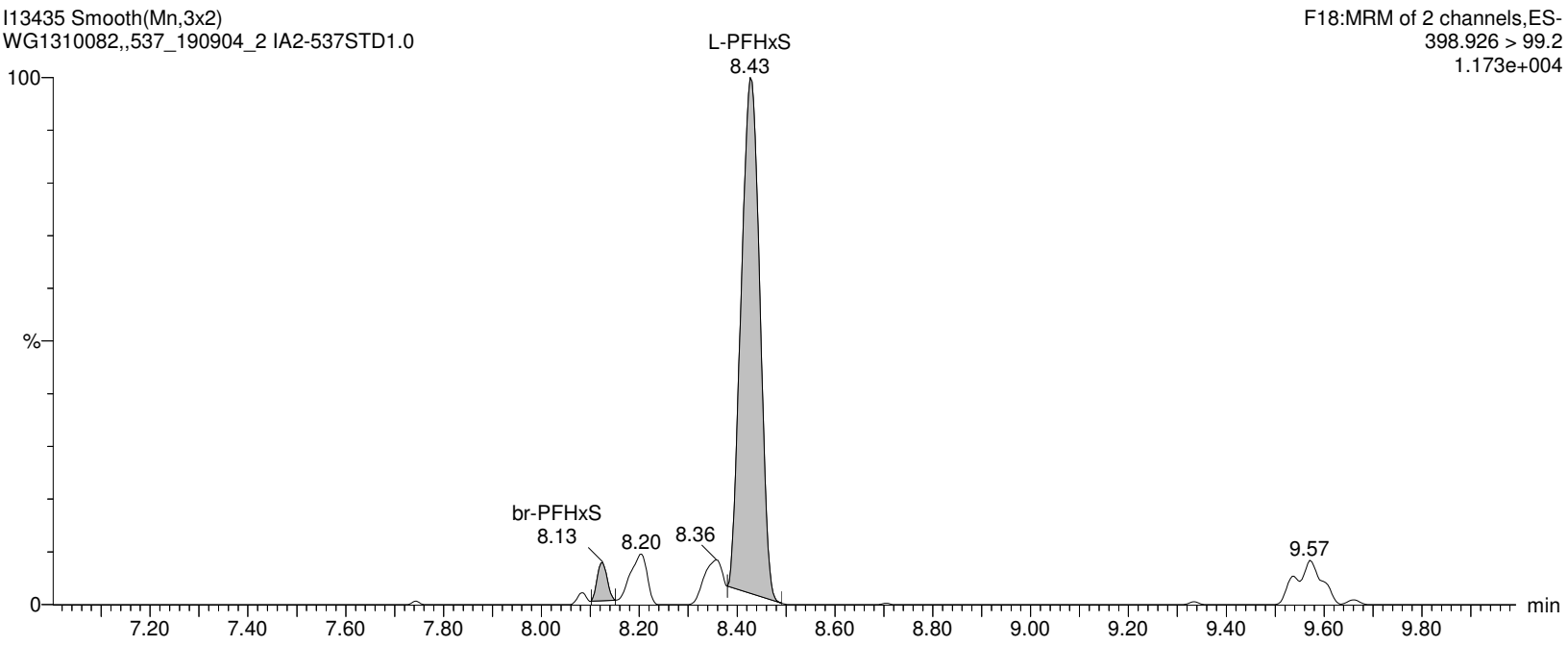

all concentration units in (ng/mL)

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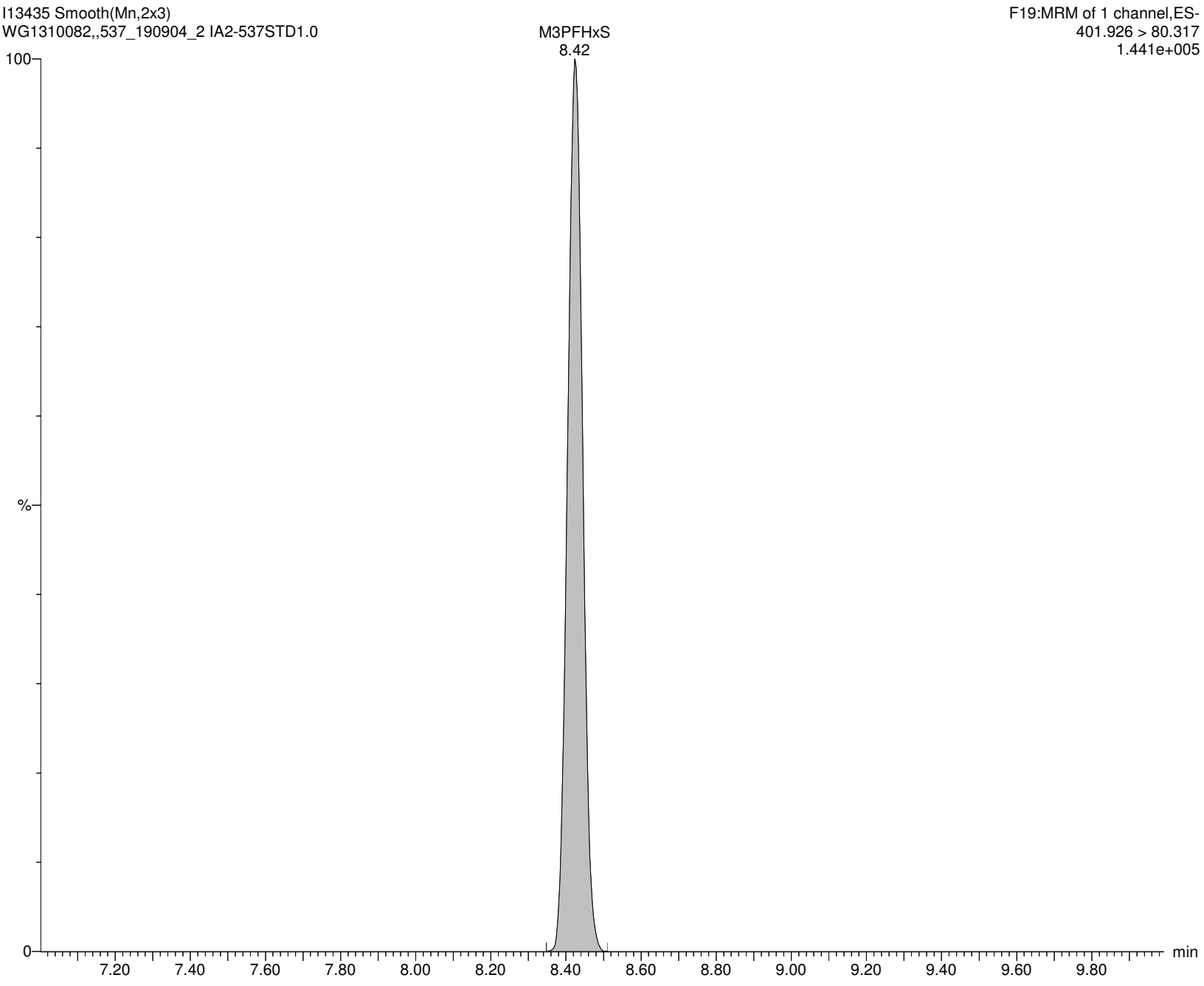

all concentration units in (ng/mL)

Alpha Analytical Inc.
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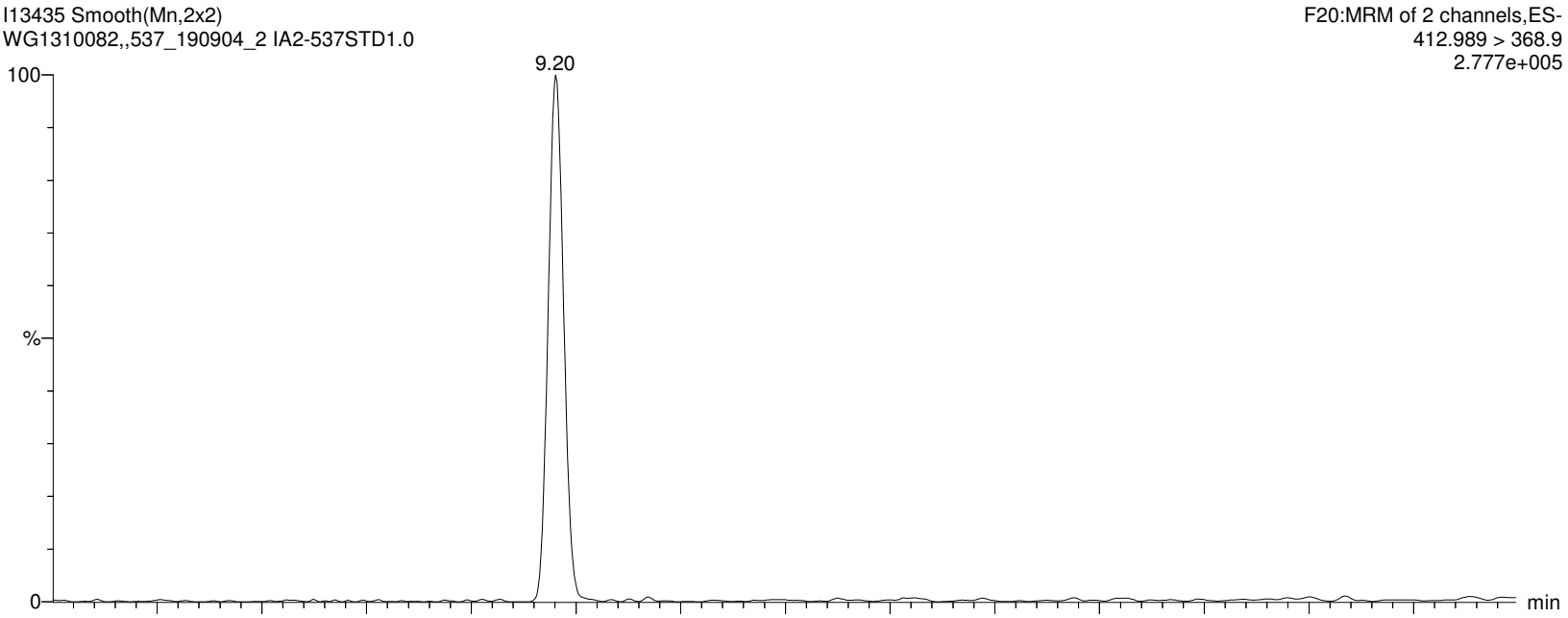

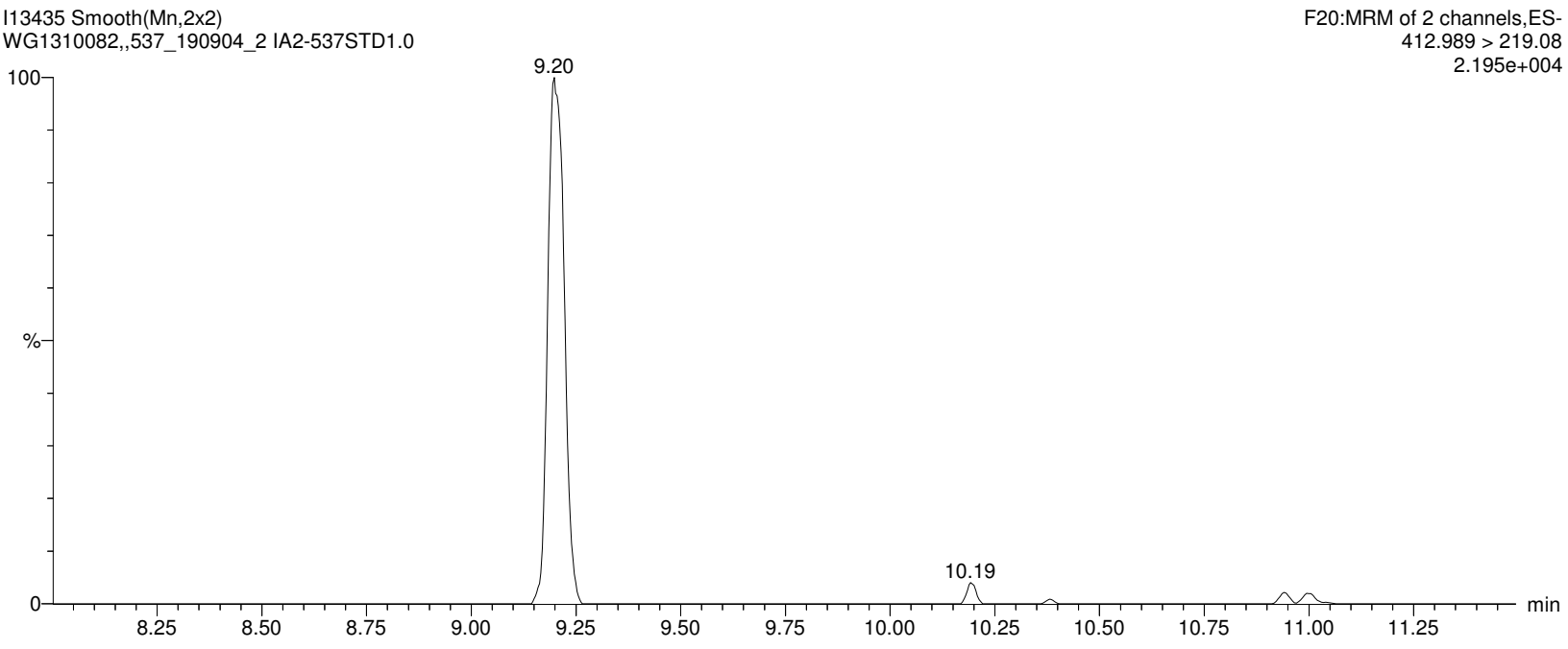

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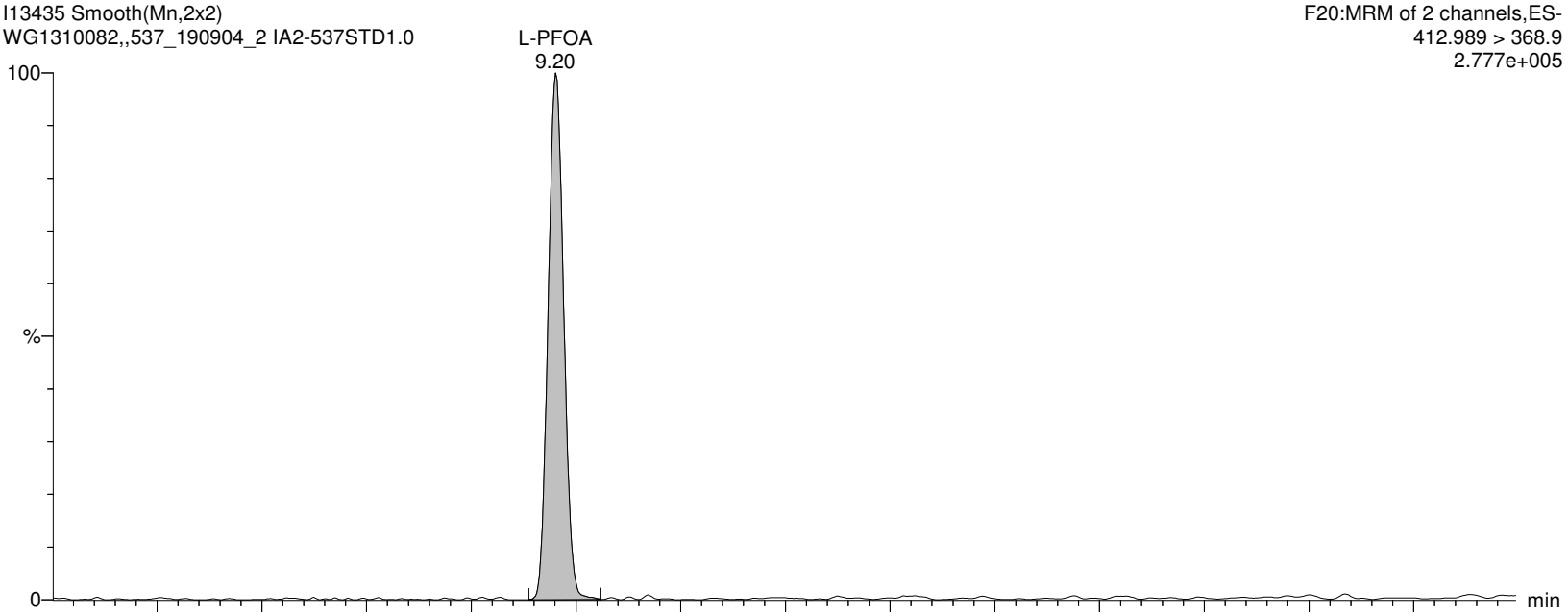

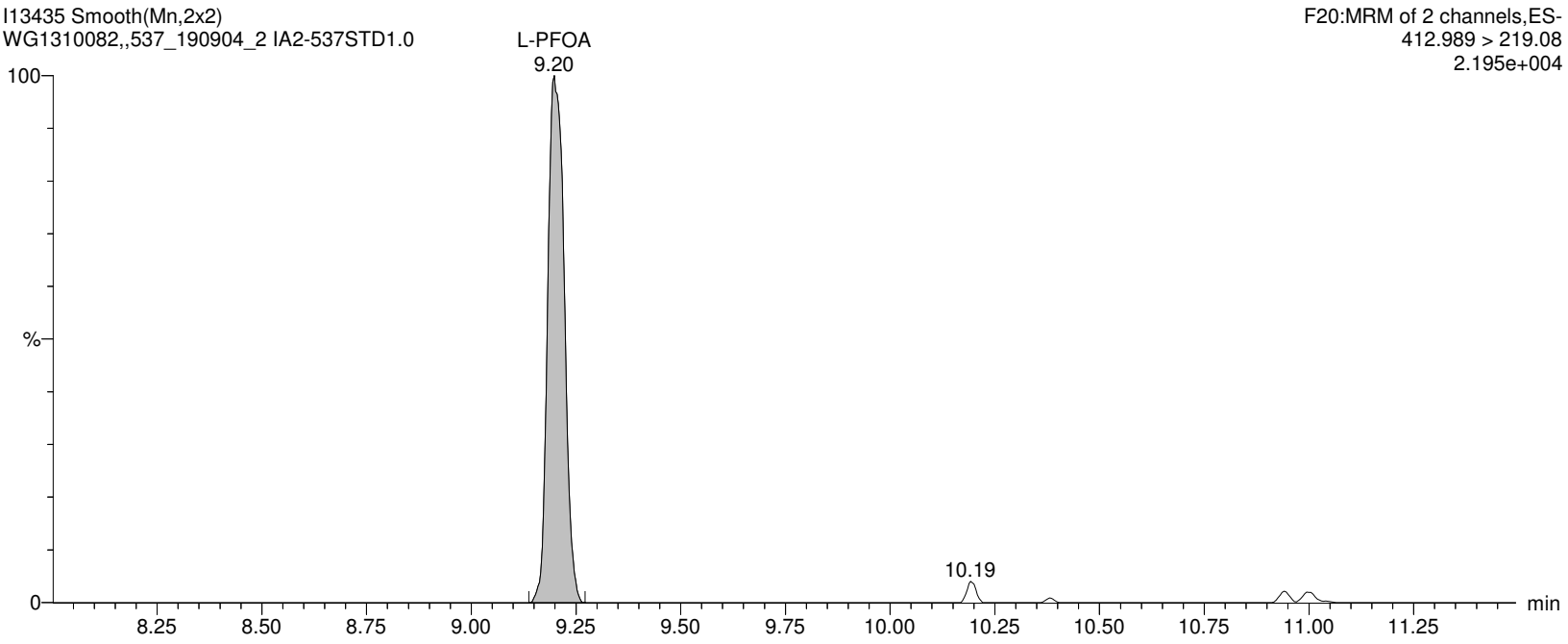

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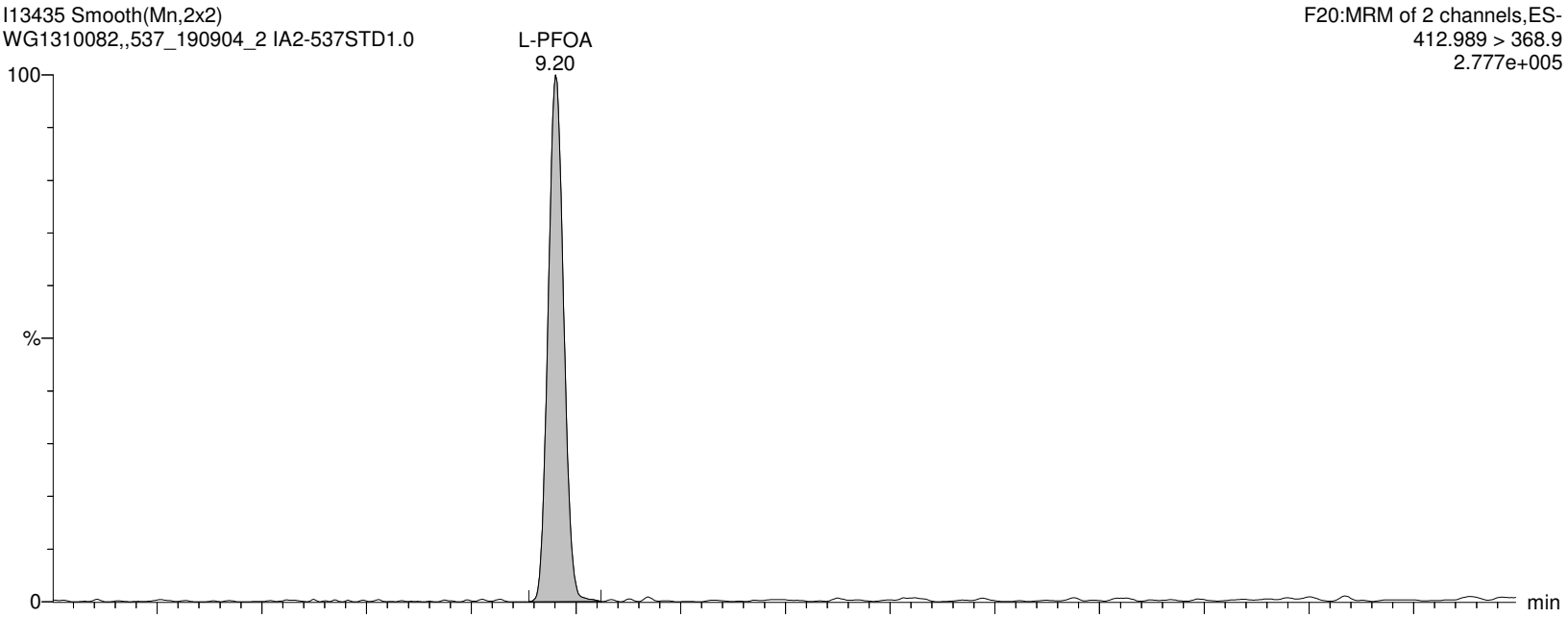

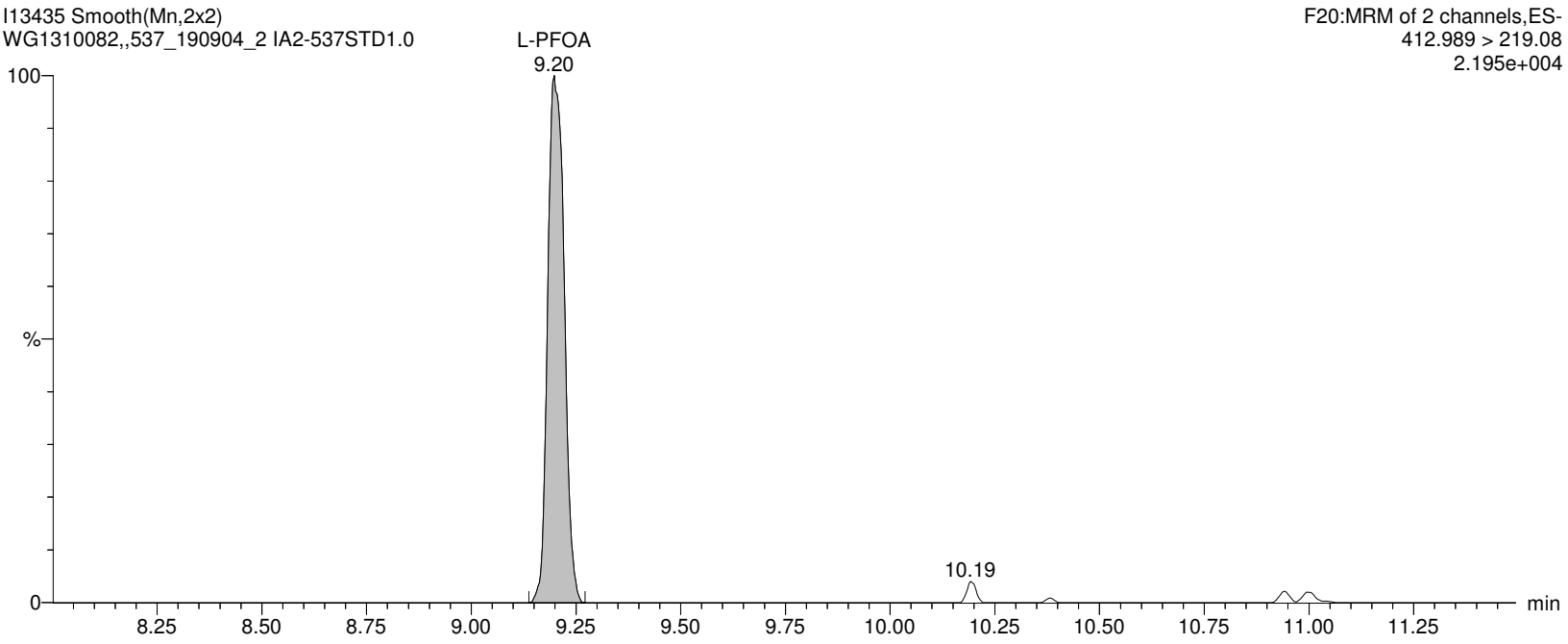

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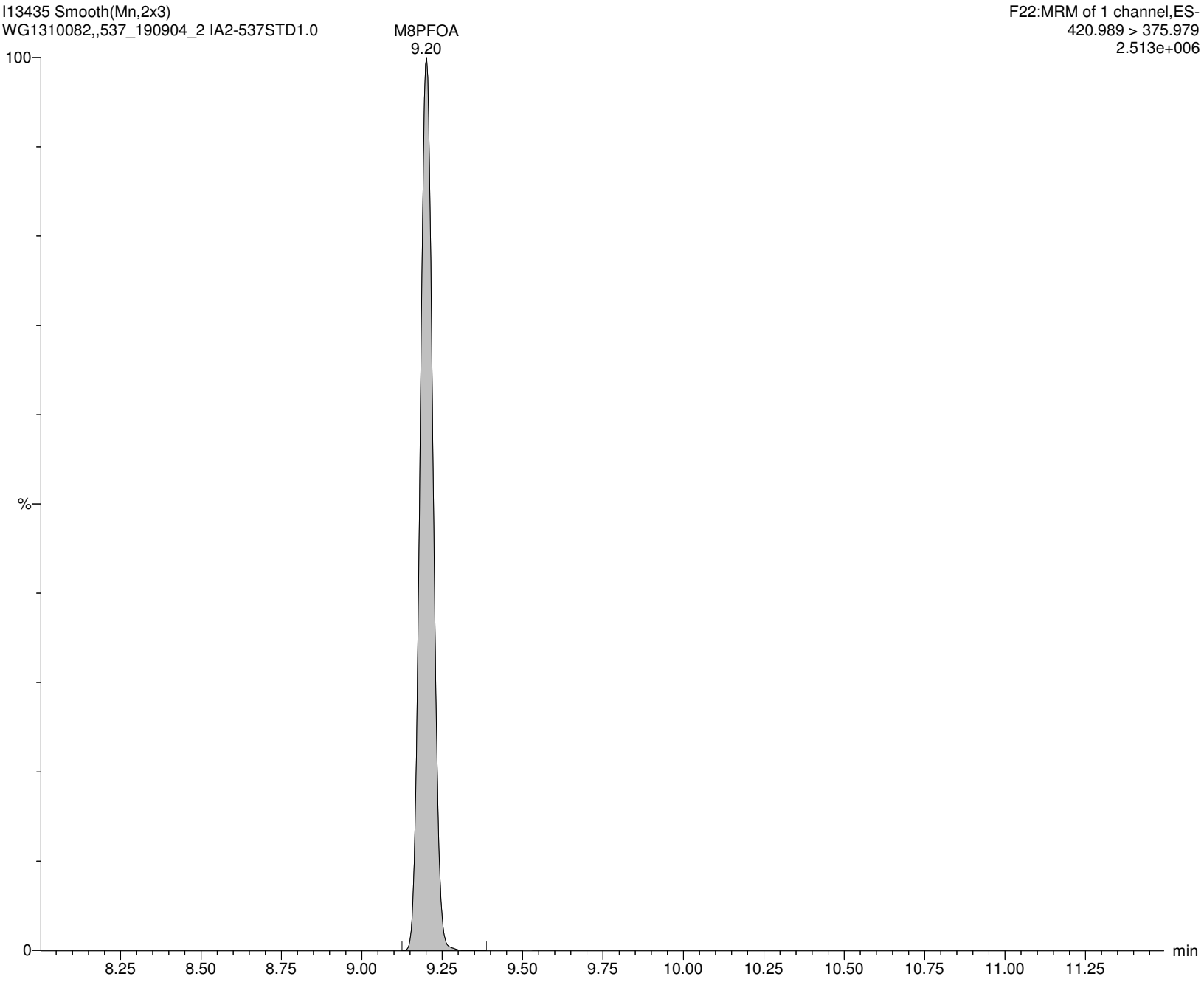

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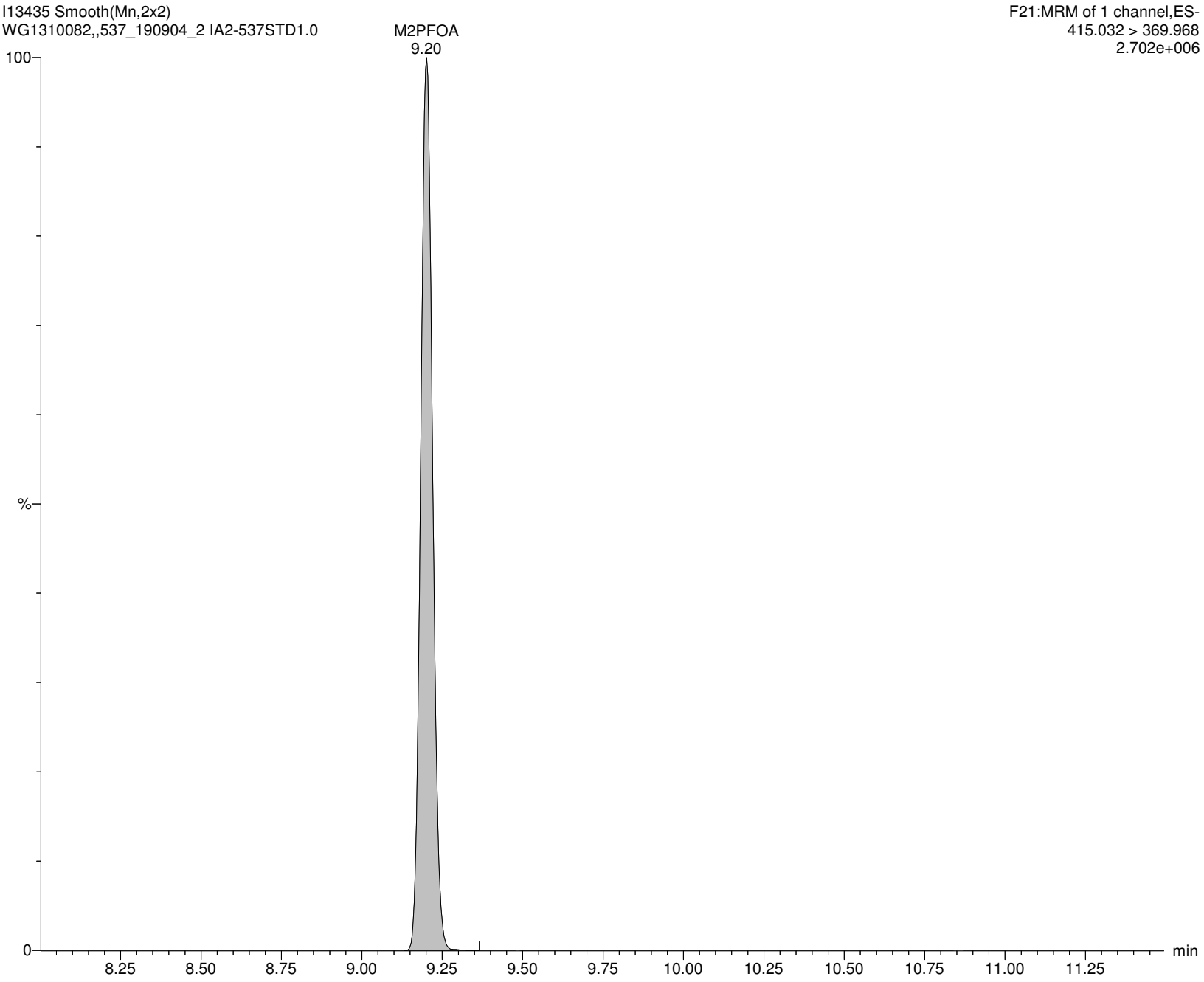

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
User: LCMS02:JW
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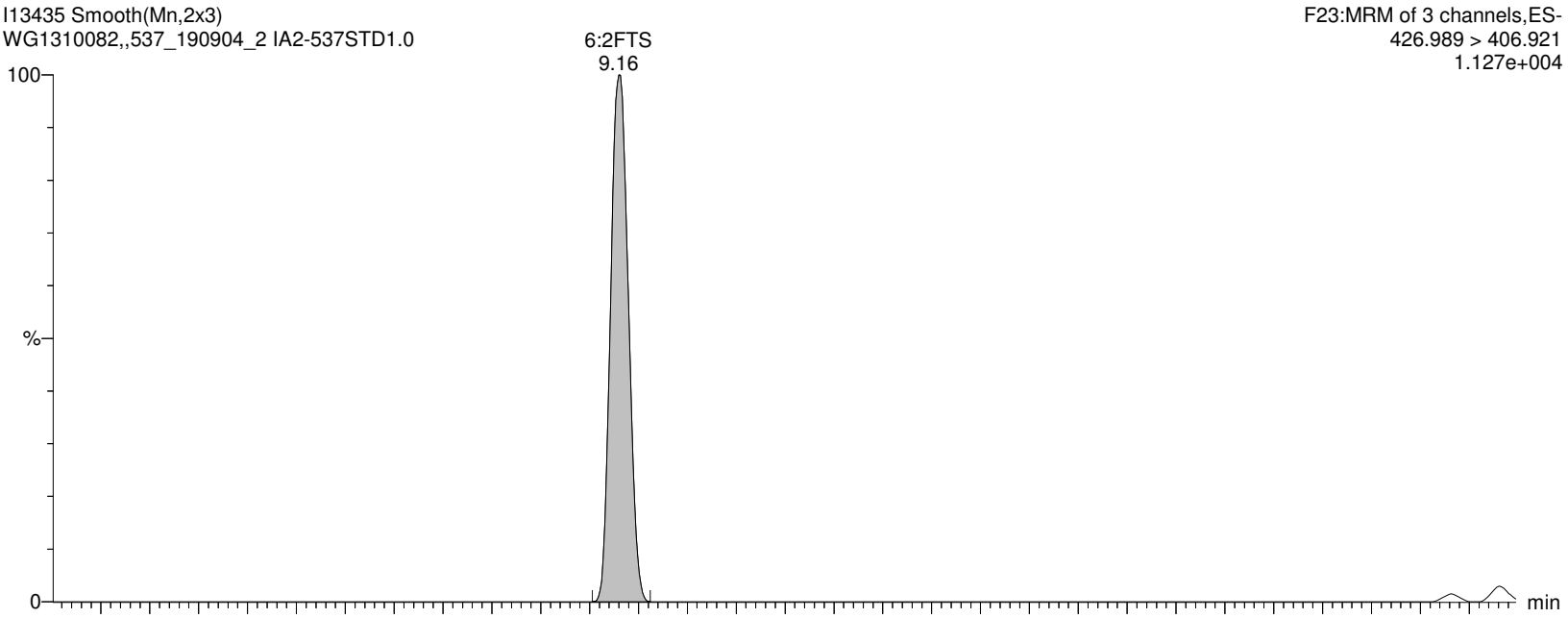

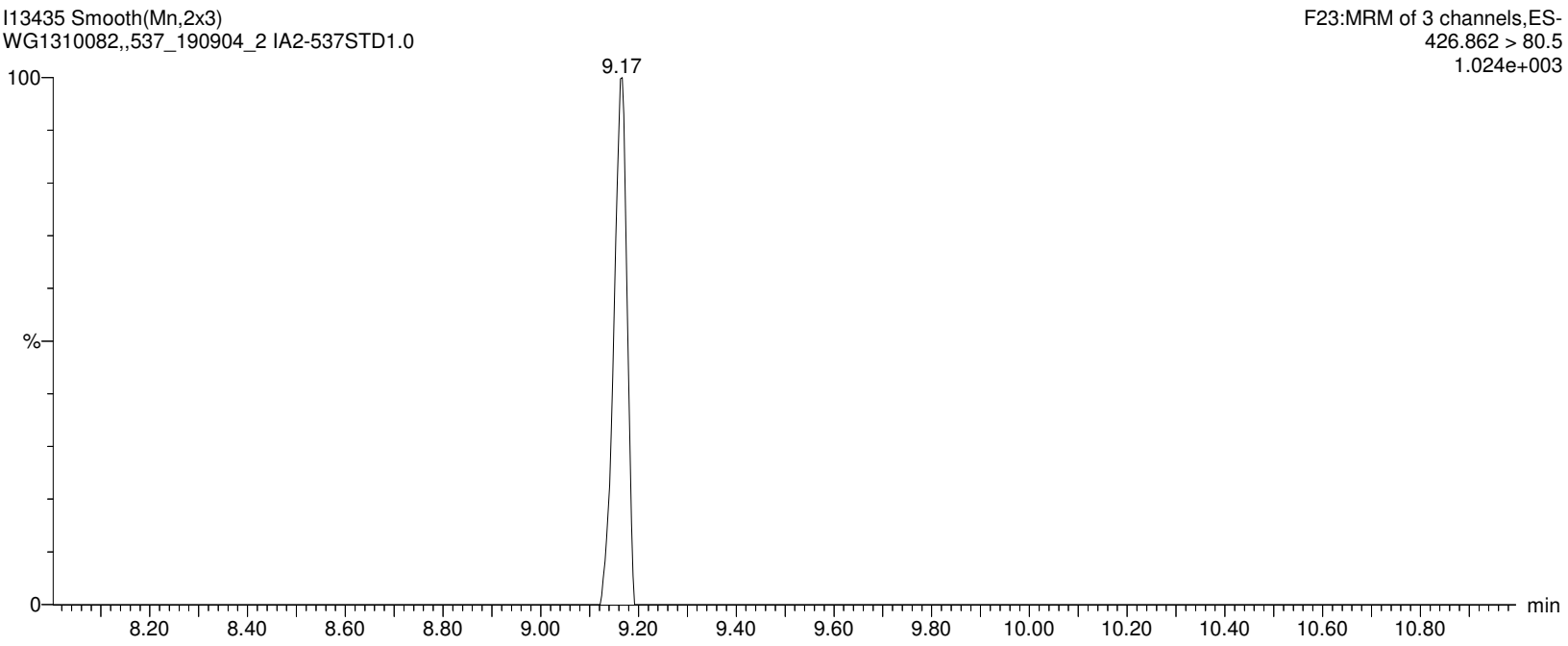

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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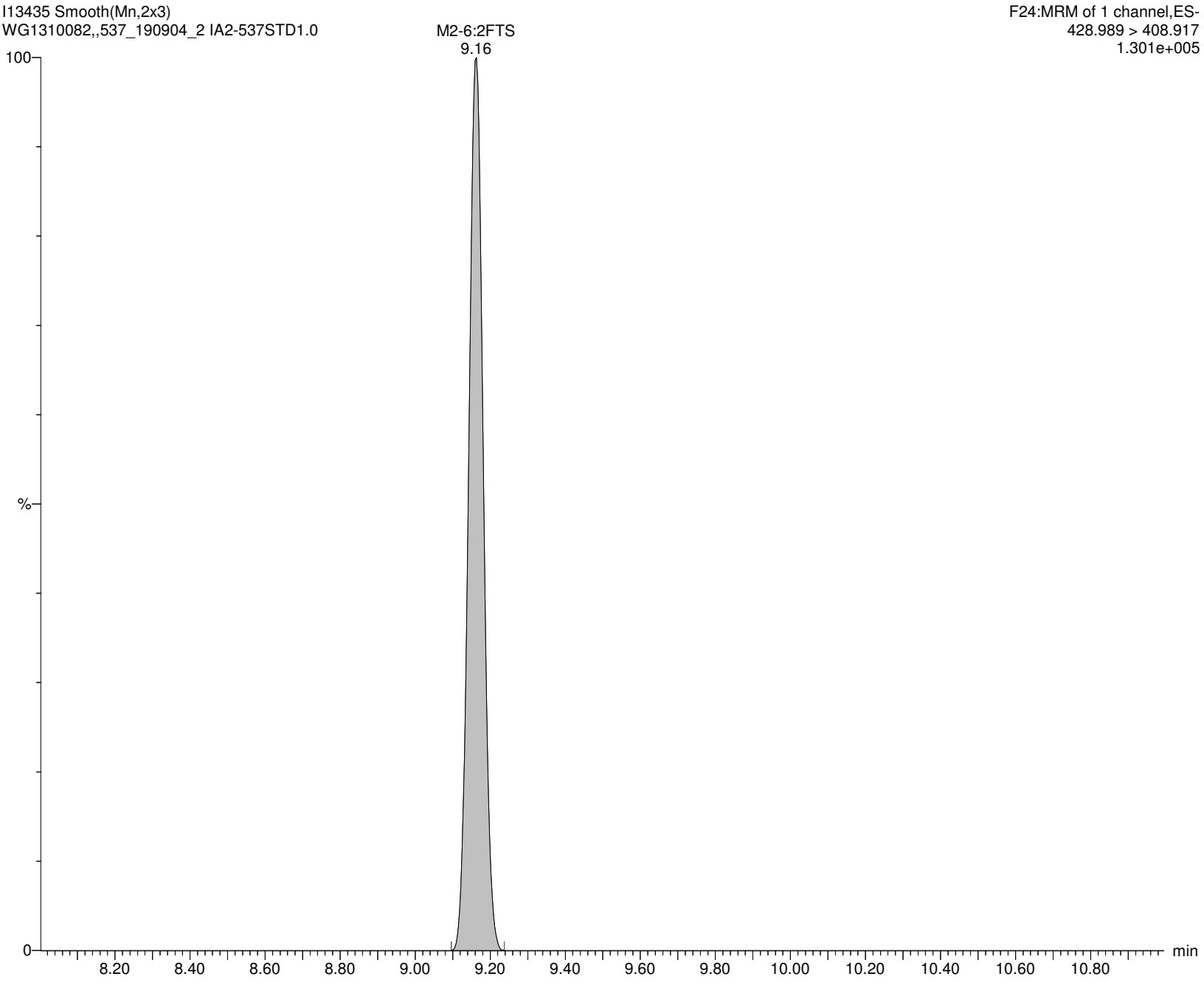

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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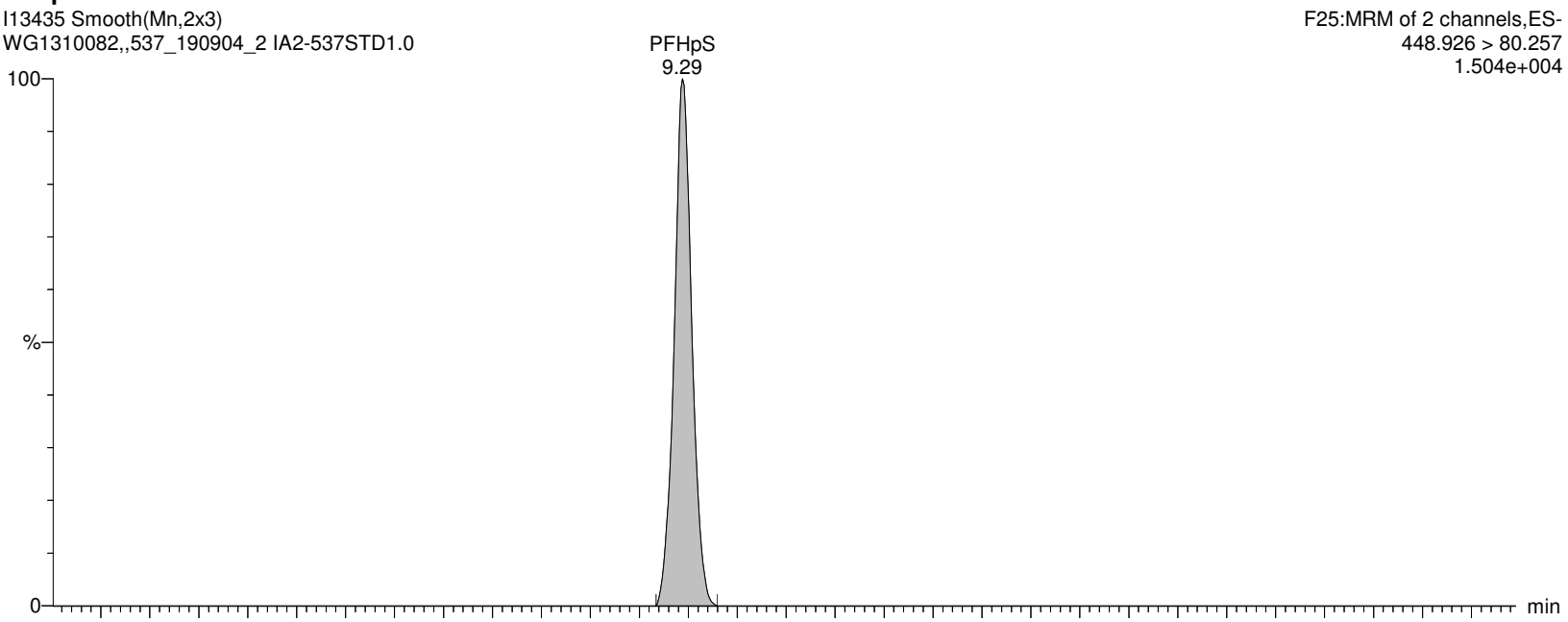

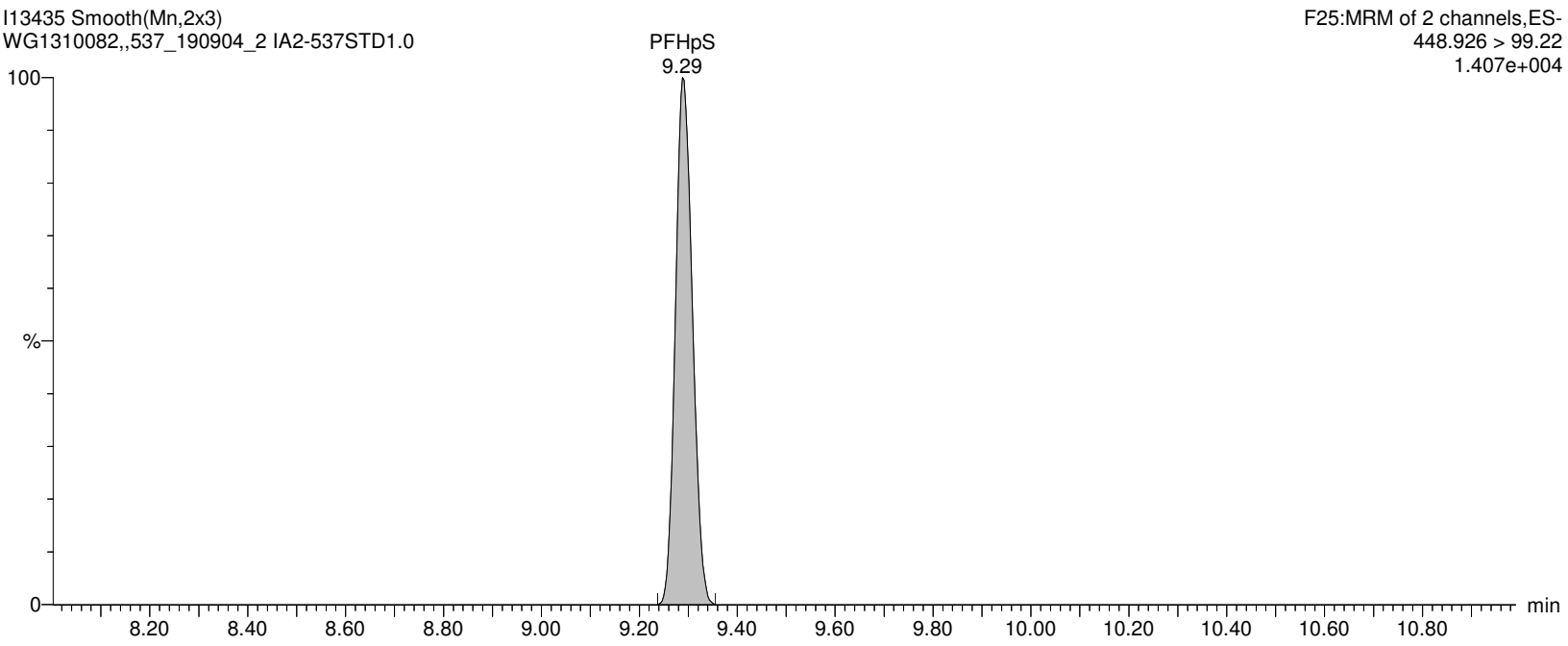

all concentration units in (ng/mL)

Alpha Analytical Inc.
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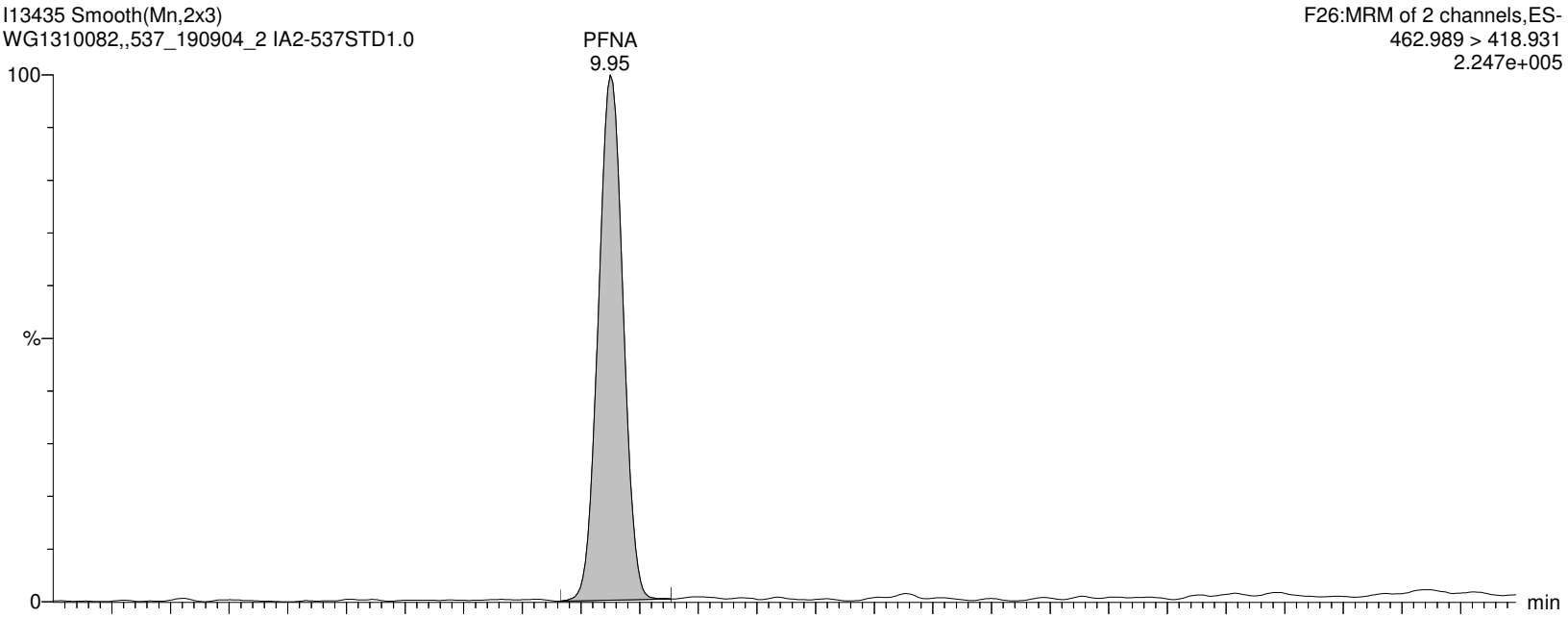

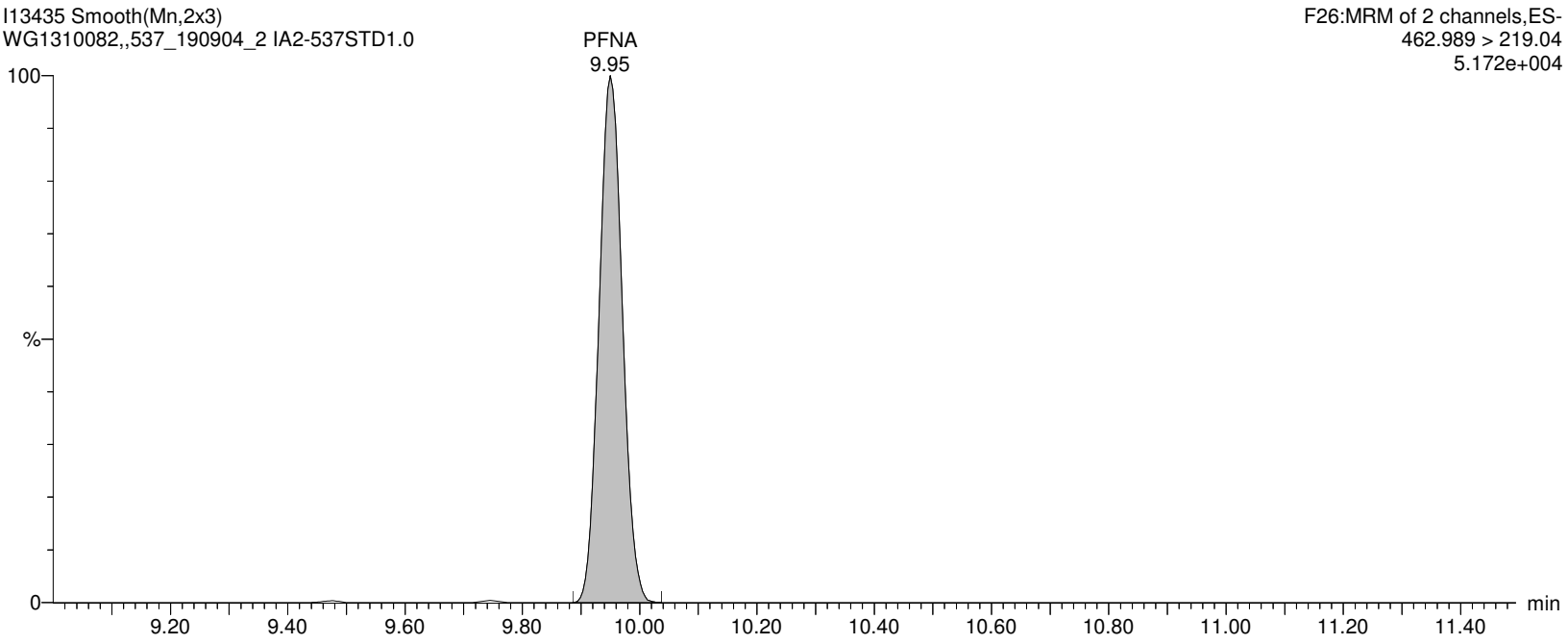

all concentration units in (ng/mL)

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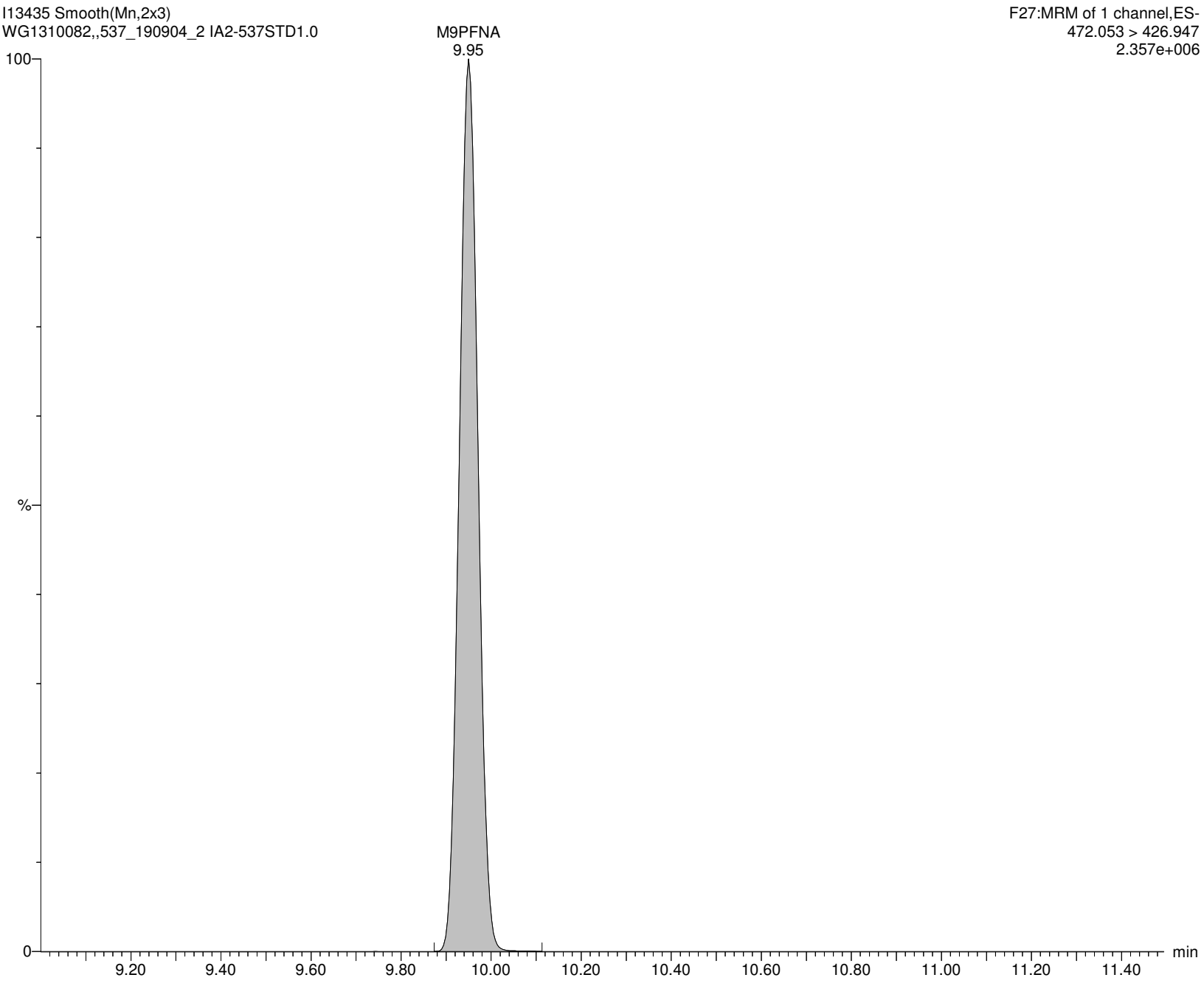

all concentration units in (ng/mL)

Alpha Analytical Inc.
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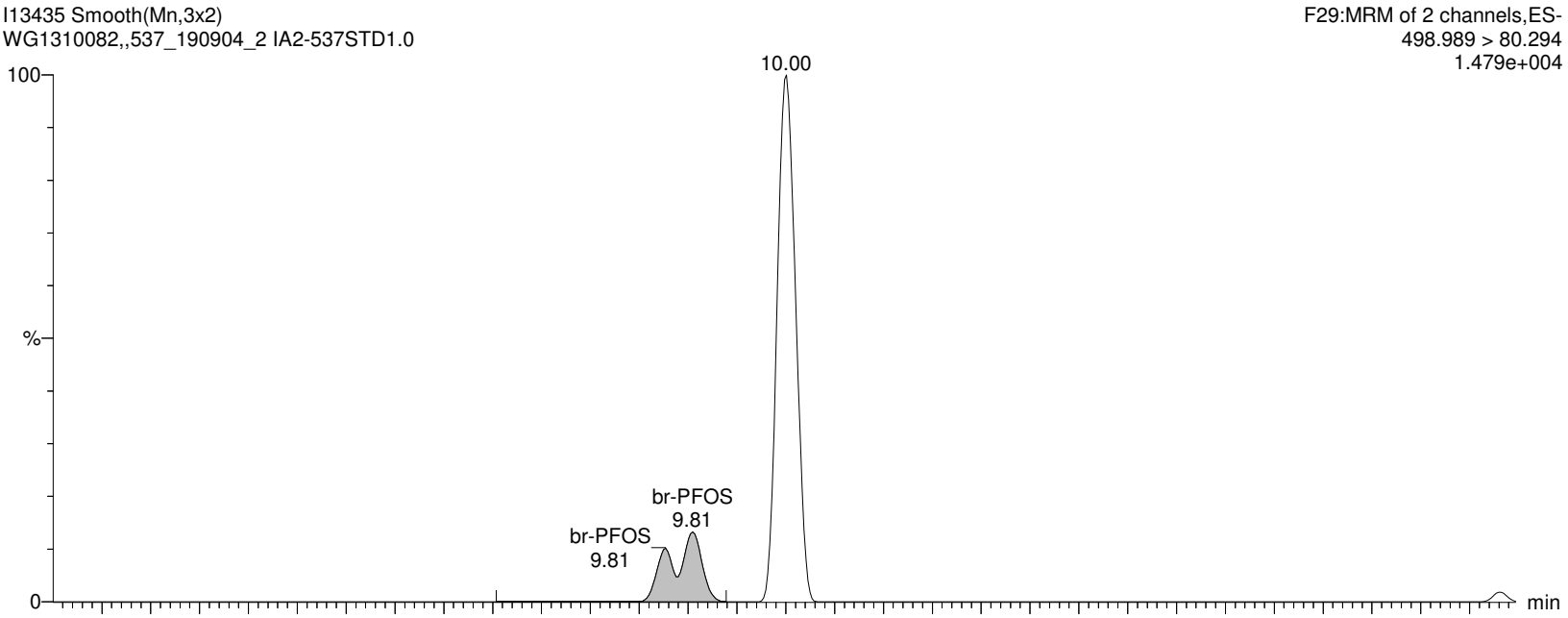

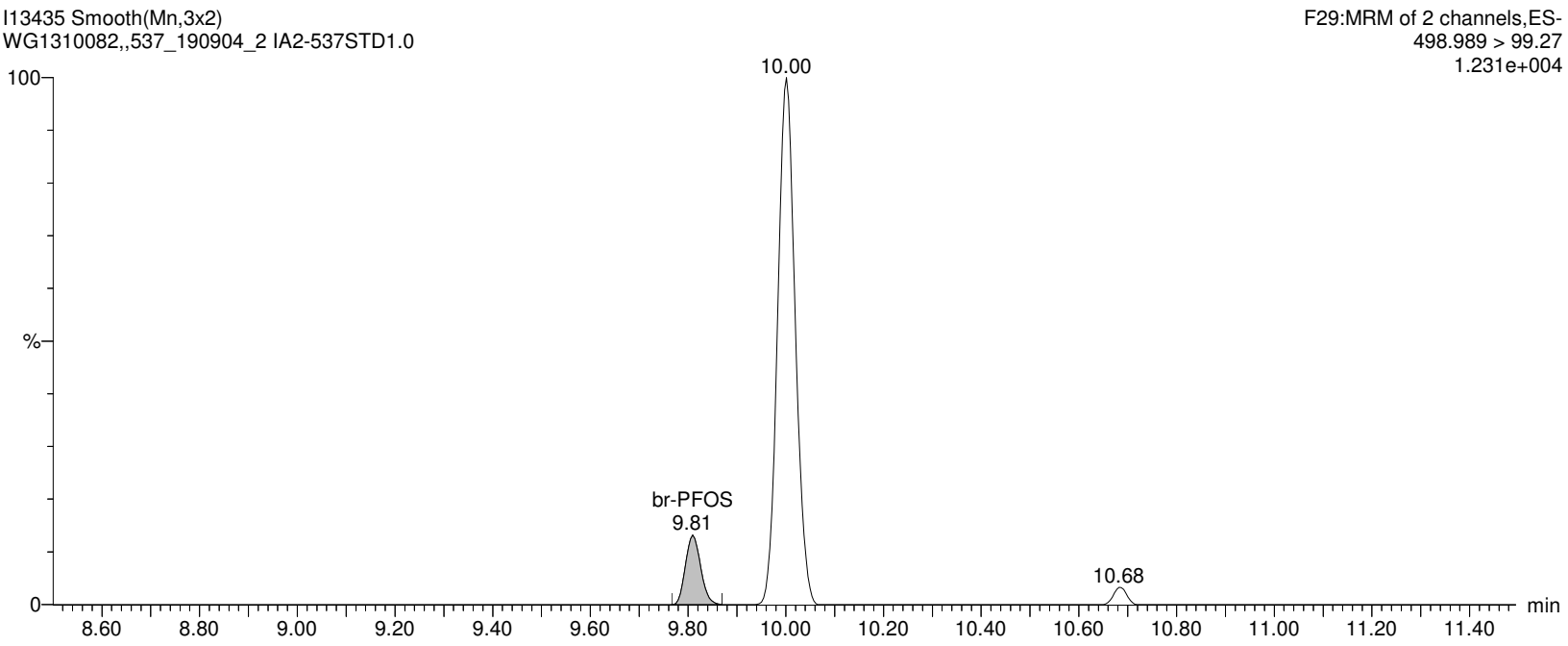

all concentration units in (ng/mL)

Alpha Analytical Inc.
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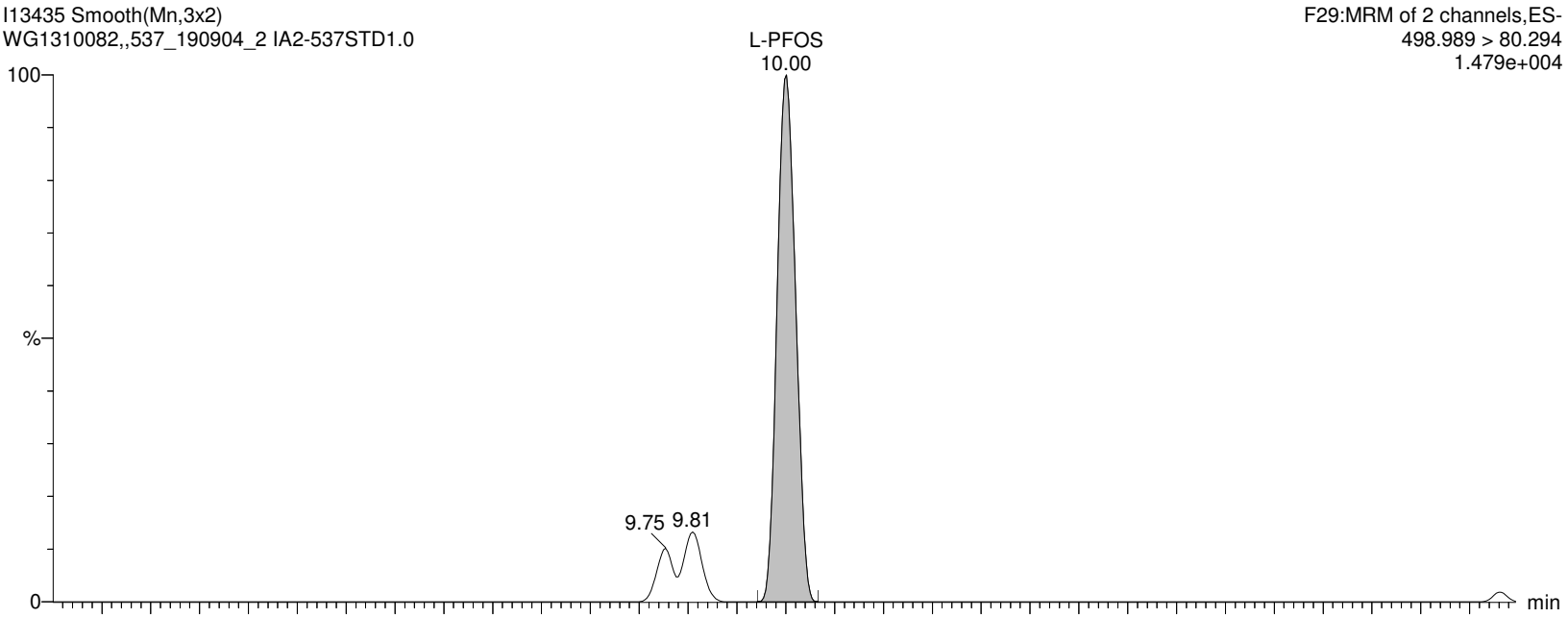

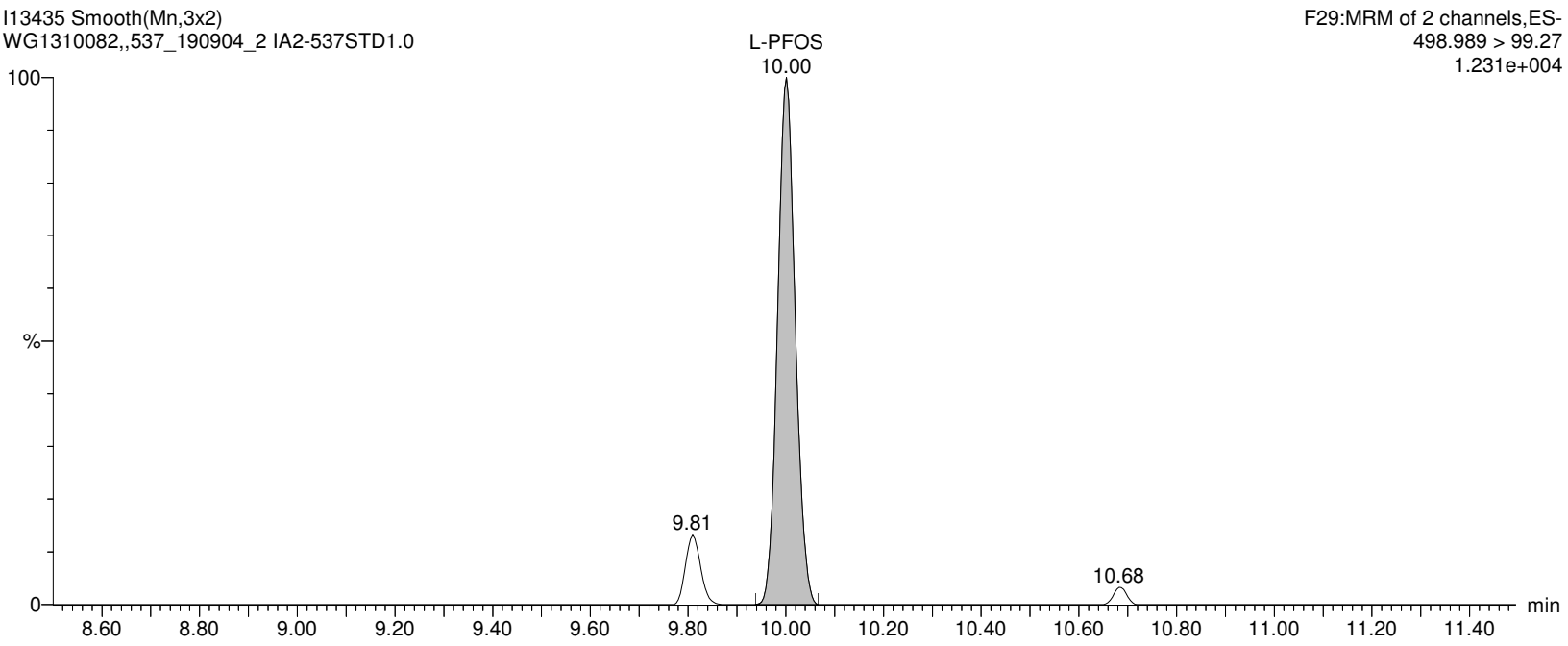

all concentration units in (ng/mL)

Alpha Analytical Inc.
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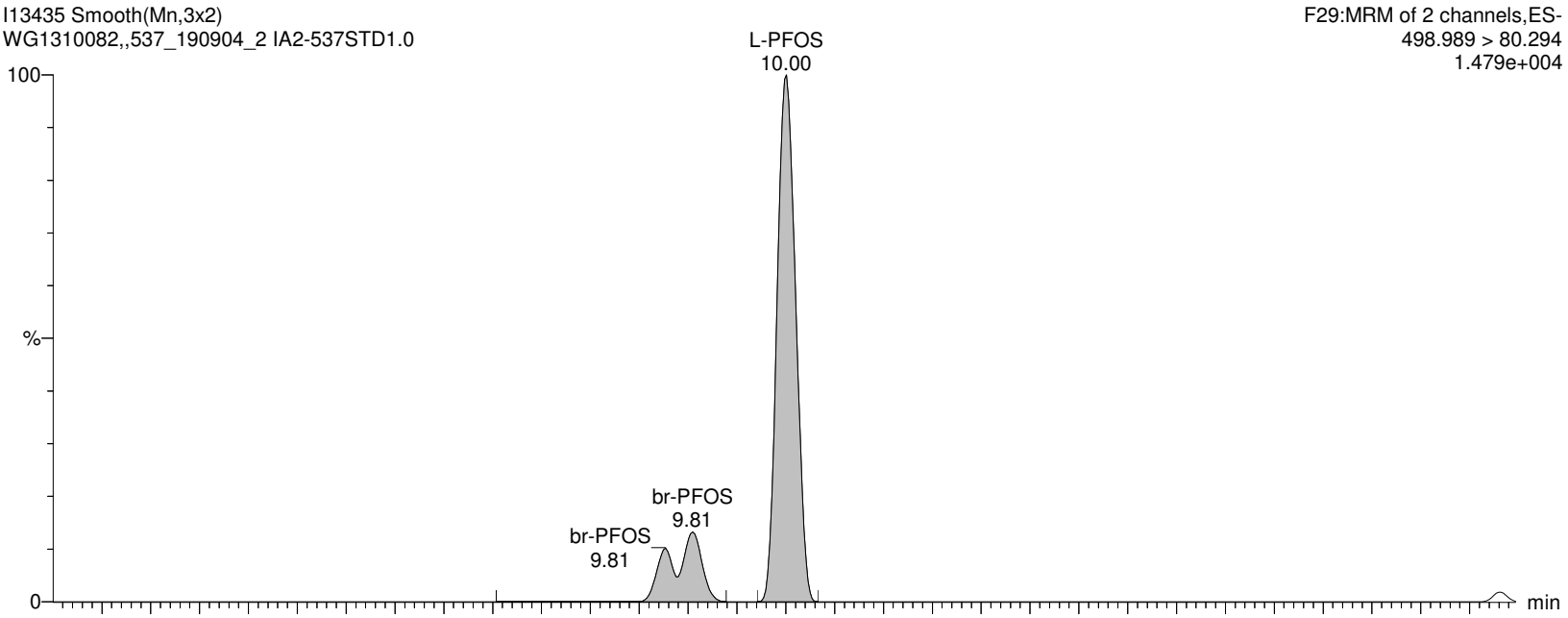
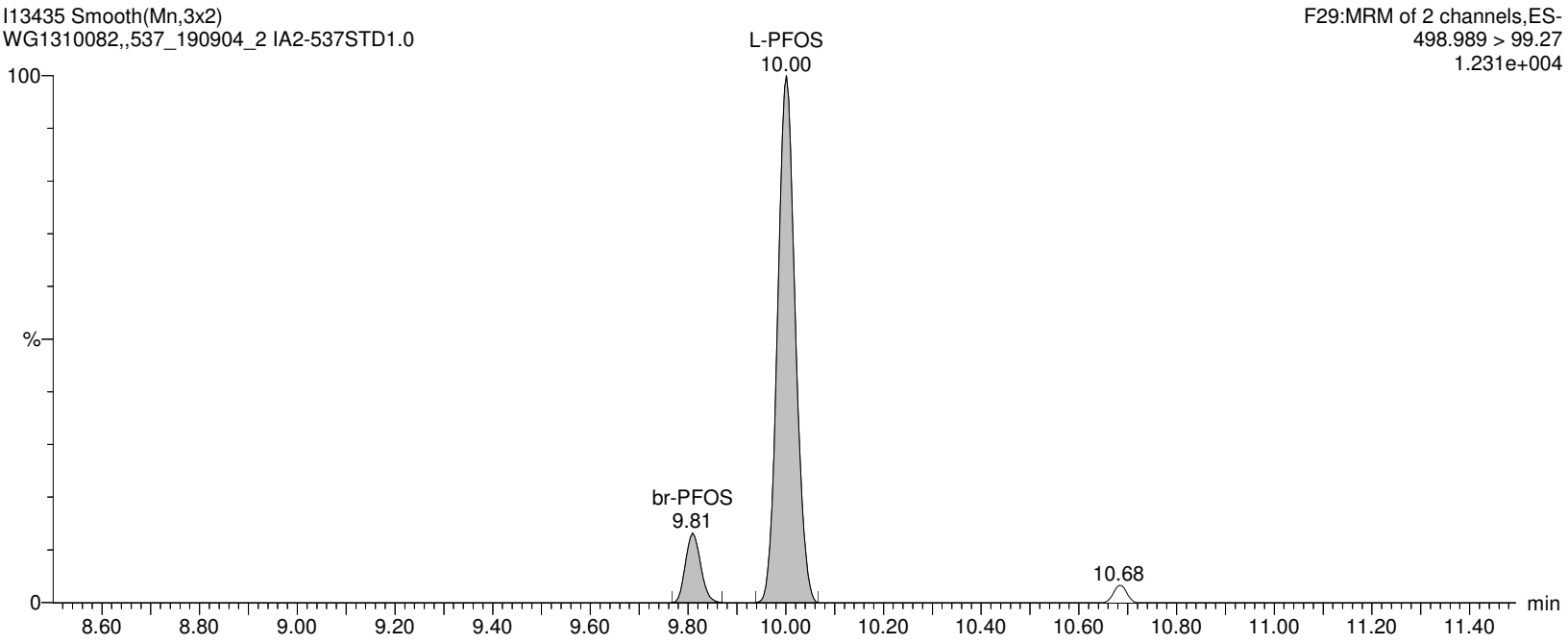
PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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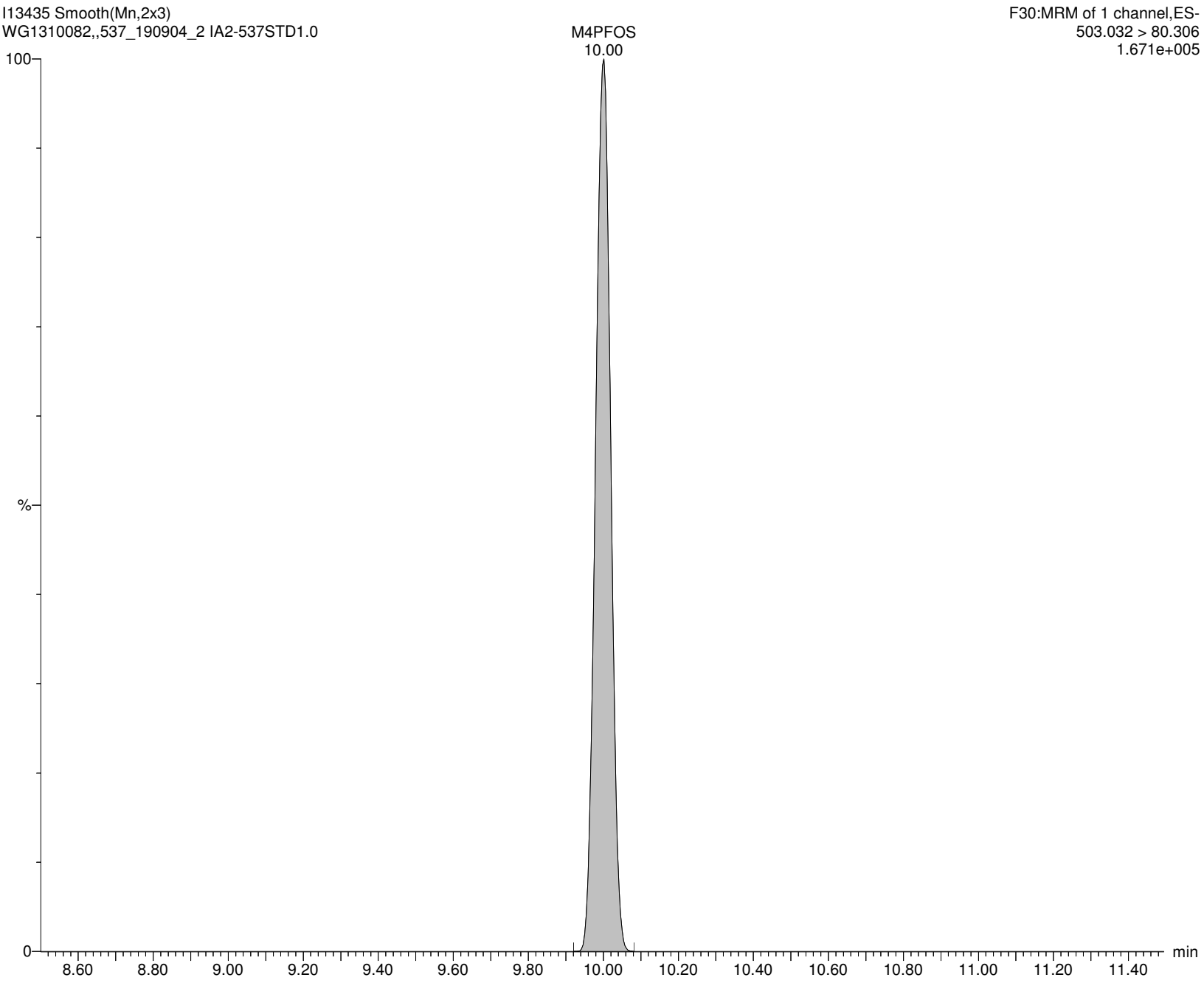

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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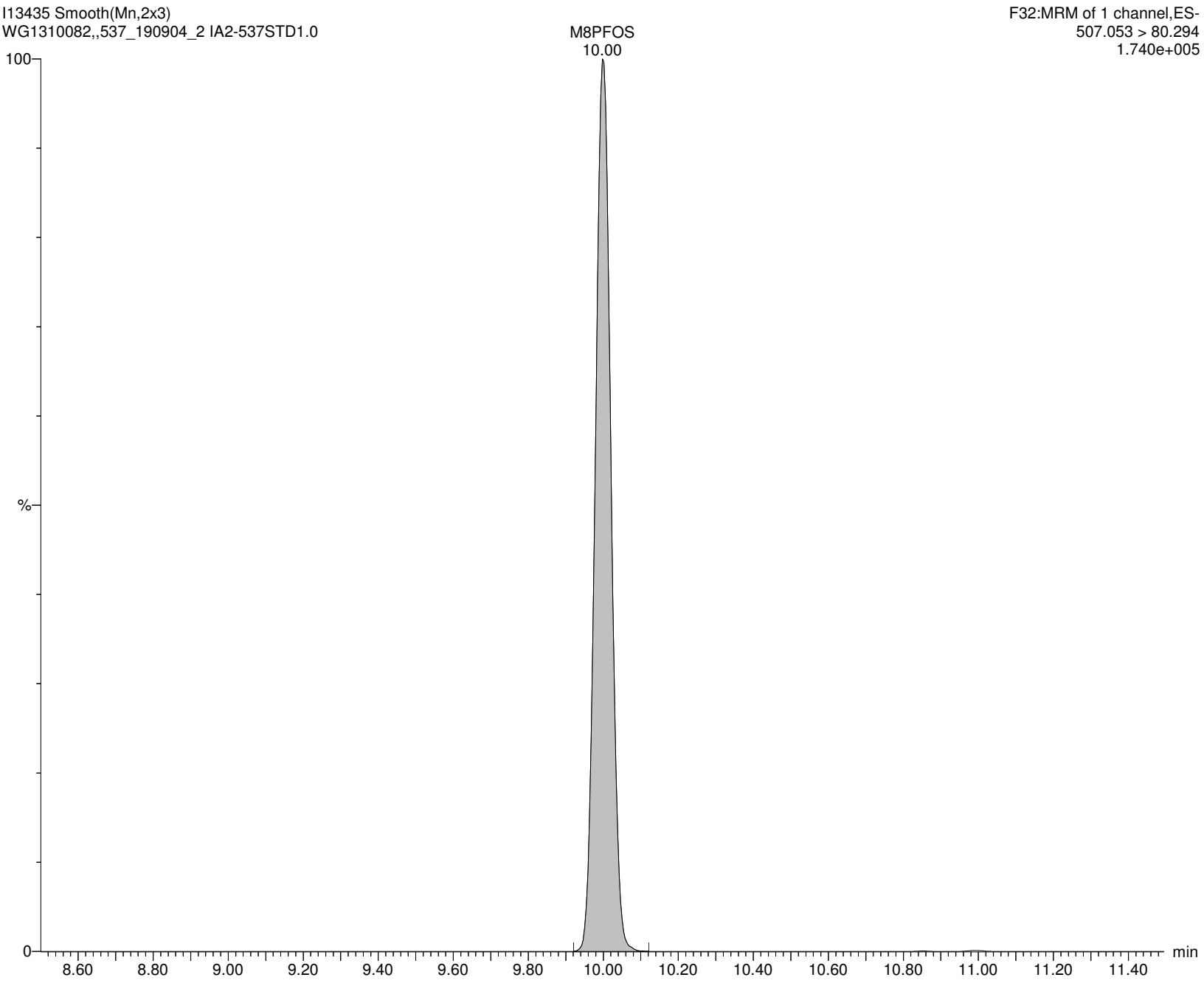

all concentration units in (ng/mL)

Alpha Analytical Inc.
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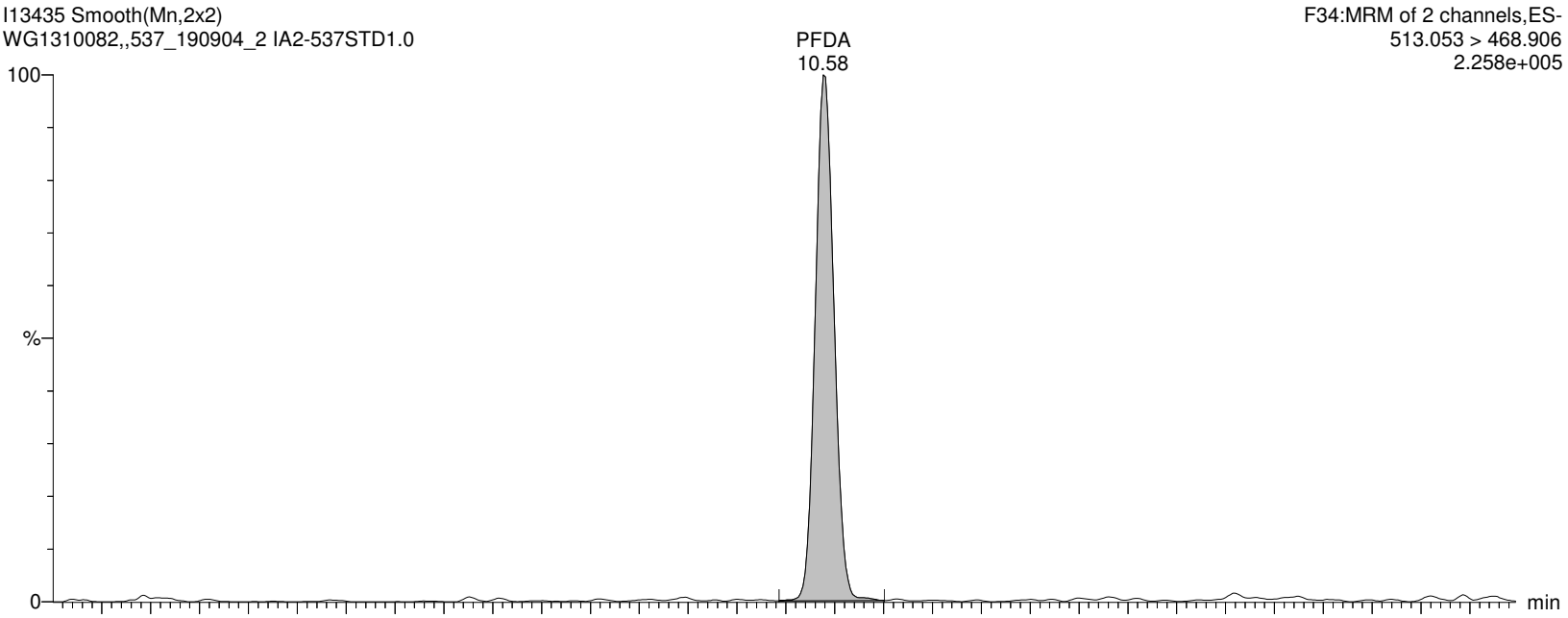

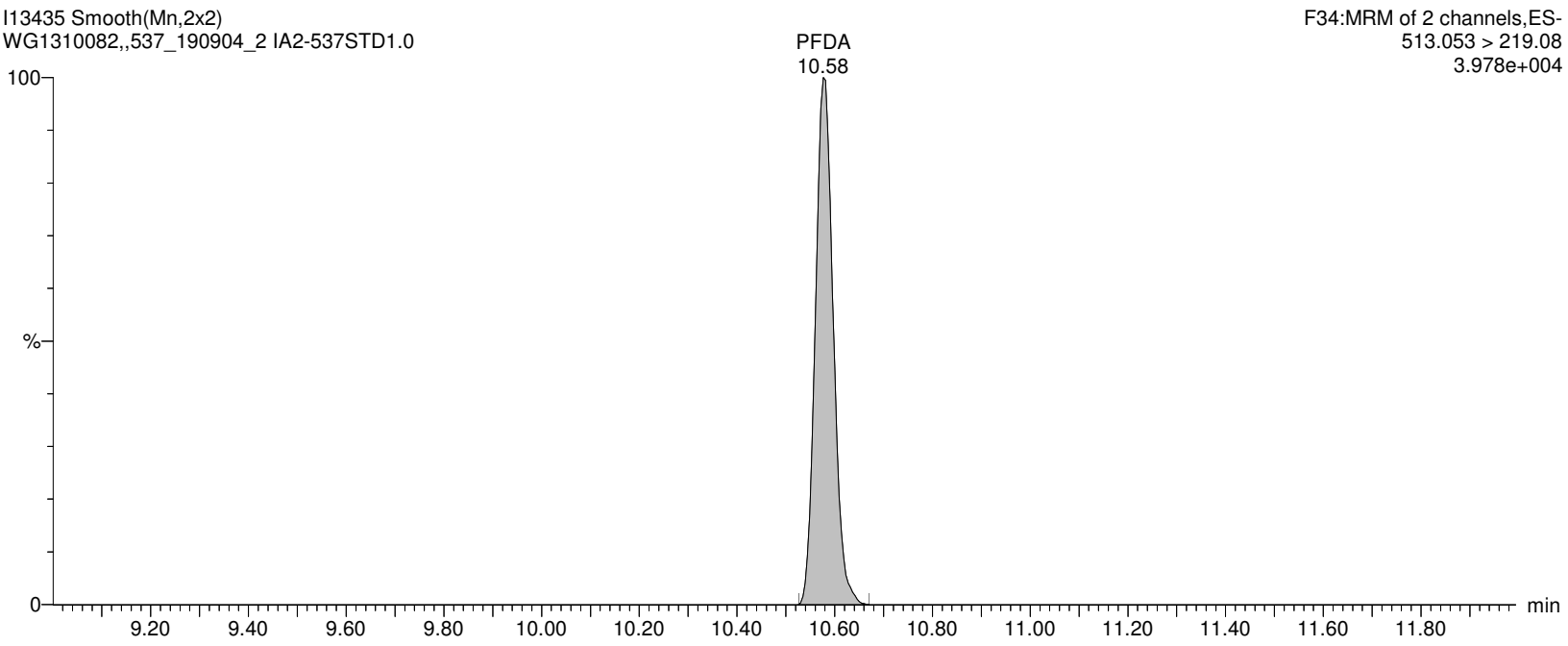

all concentration units in (ng/mL)

Alpha Analytical Inc.
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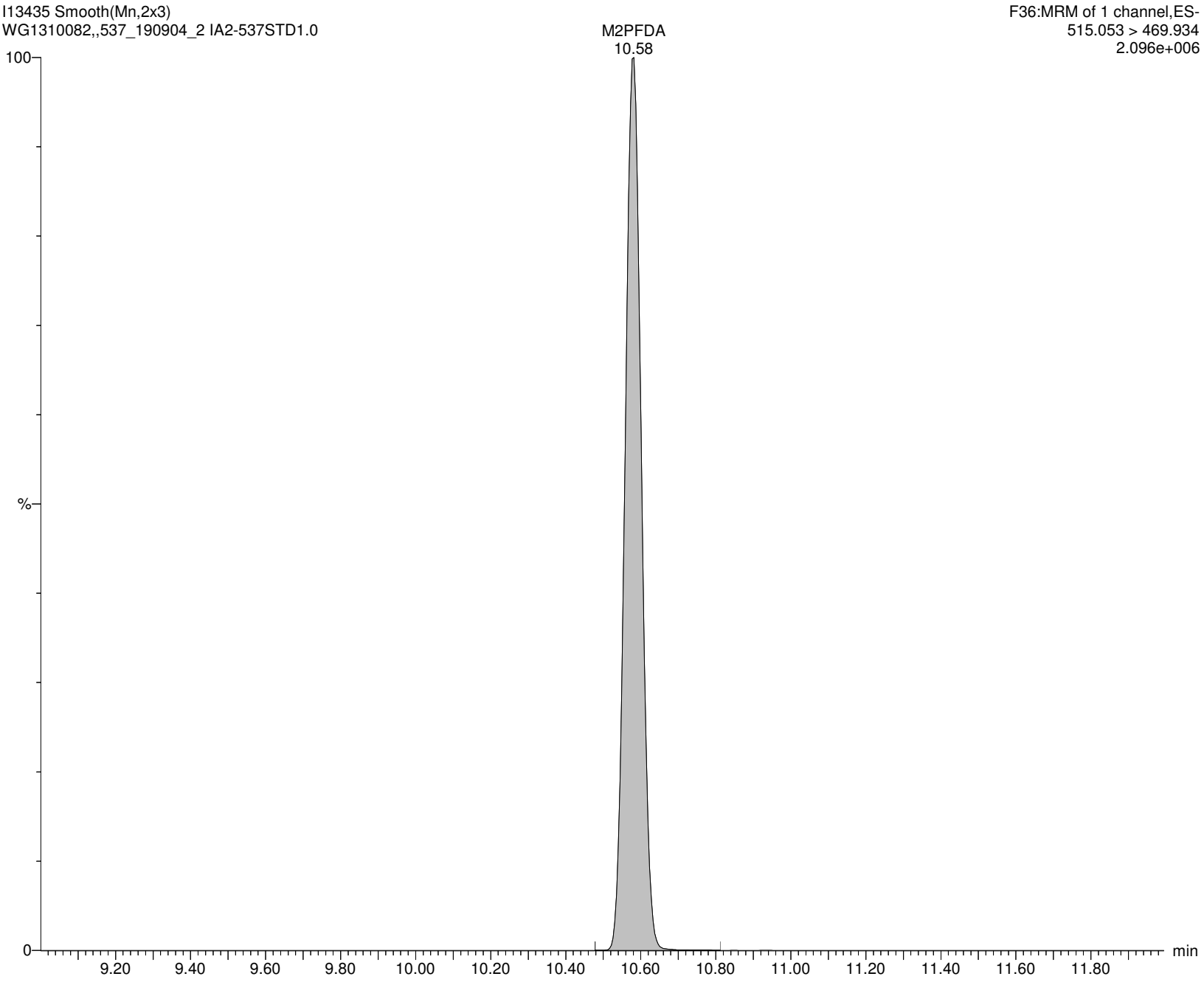
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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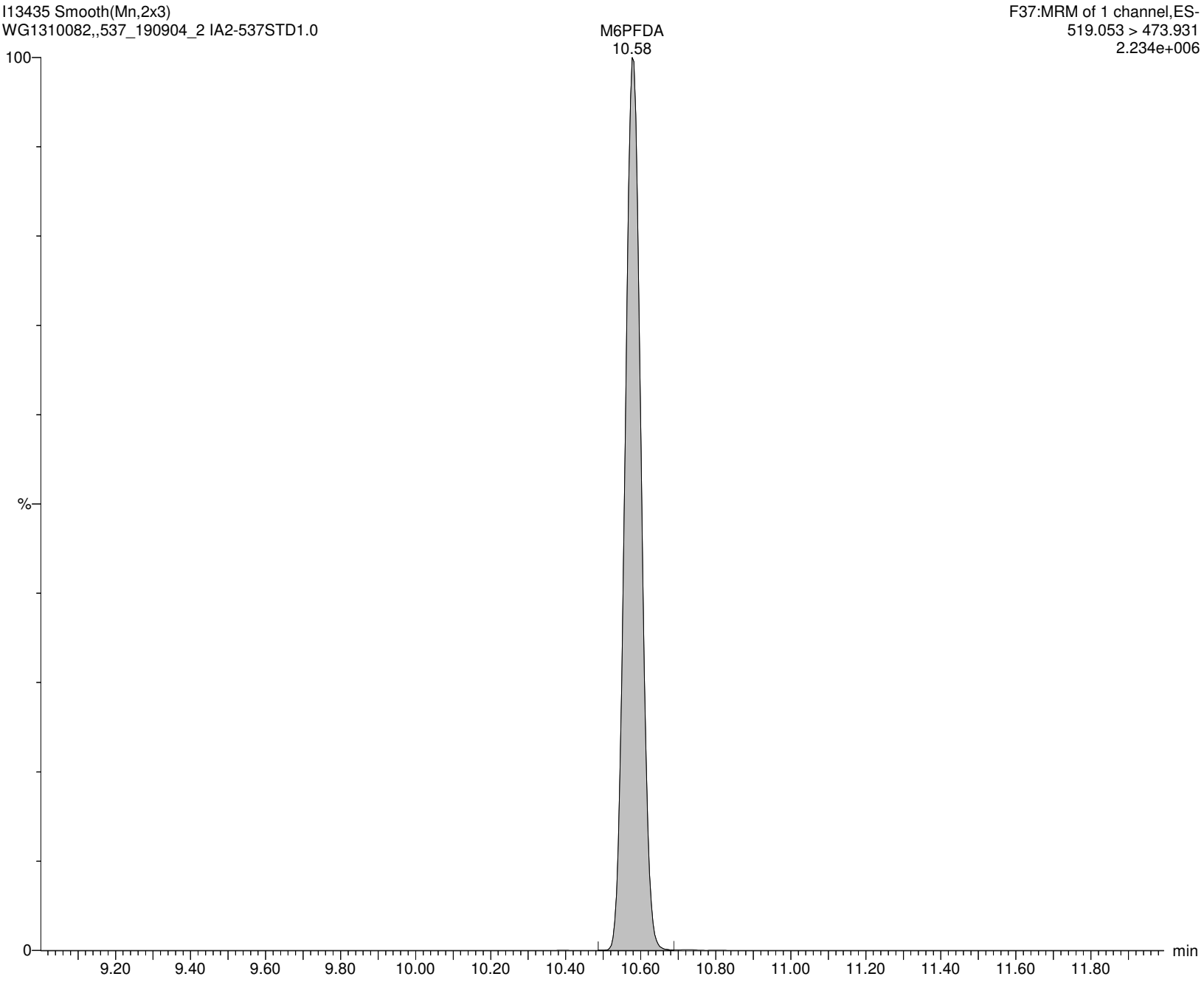

all concentration units in (ng/mL)

Alpha Analytical Inc.
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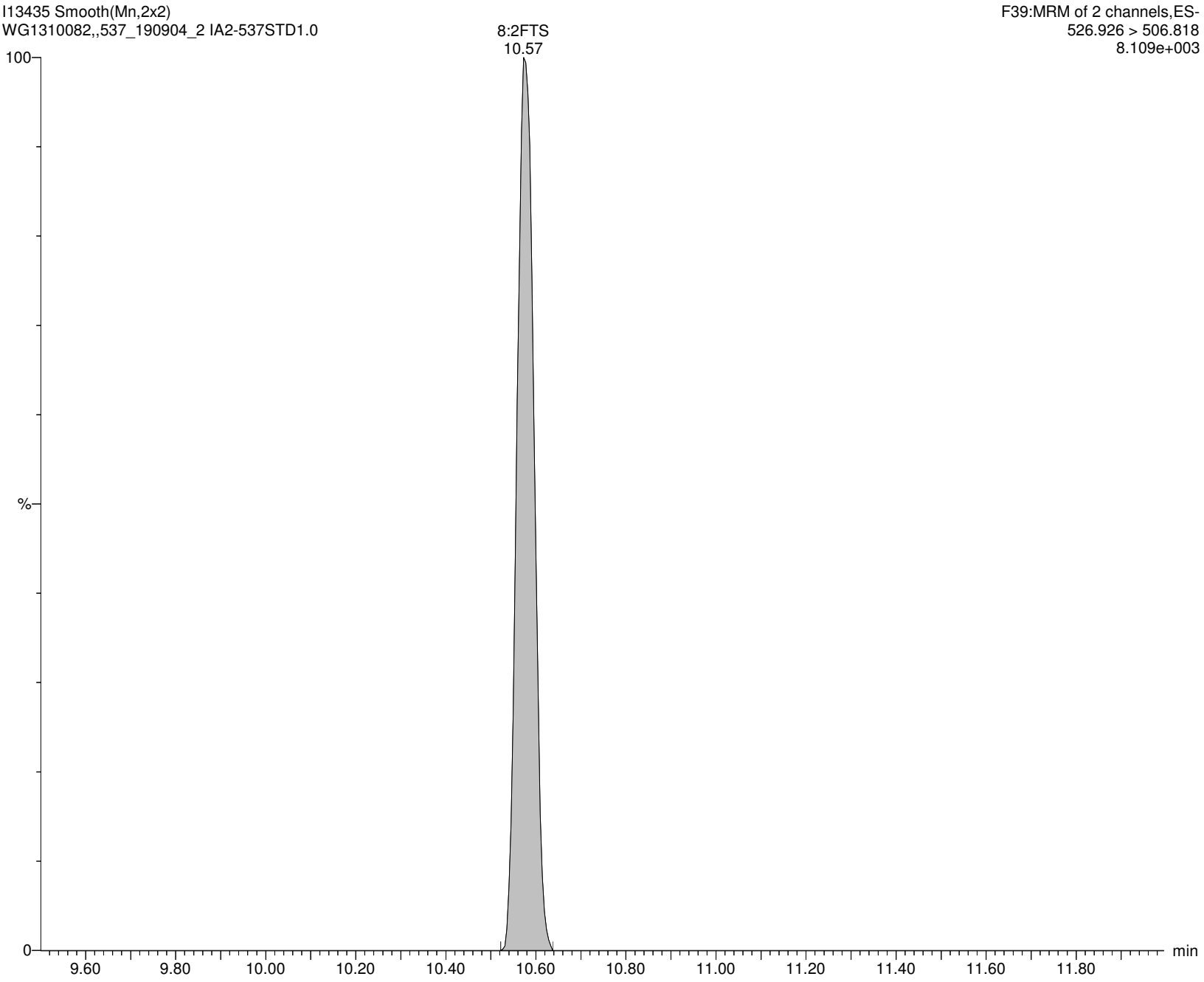
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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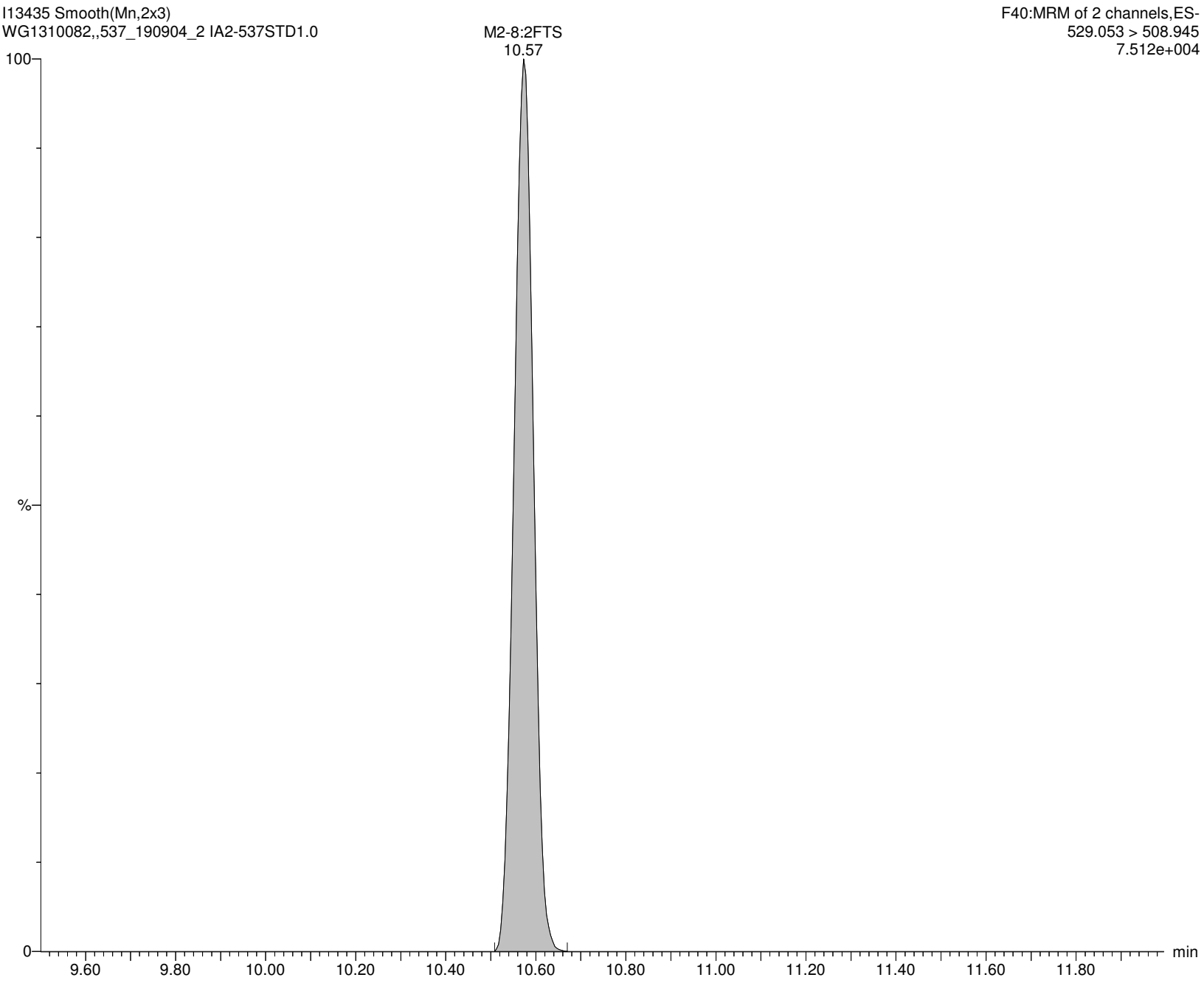

all concentration units in (ng/mL)

Alpha Analytical Inc.
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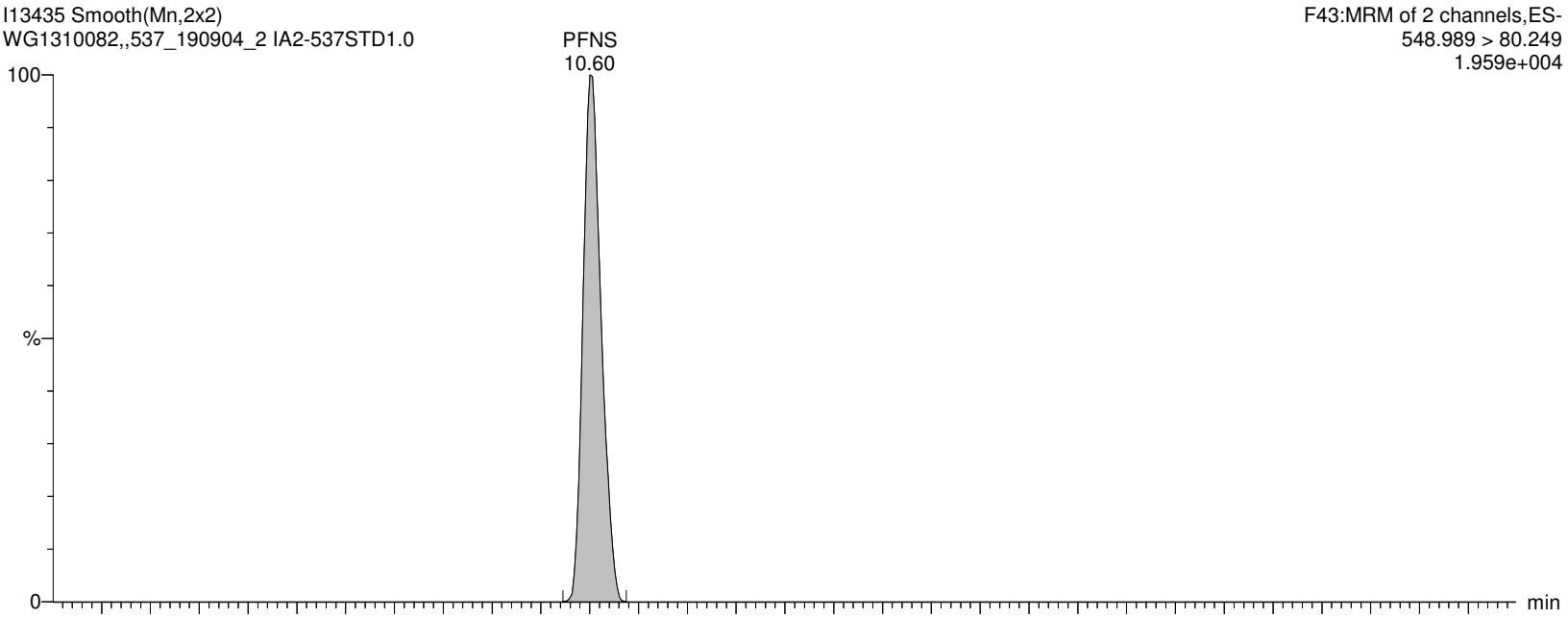

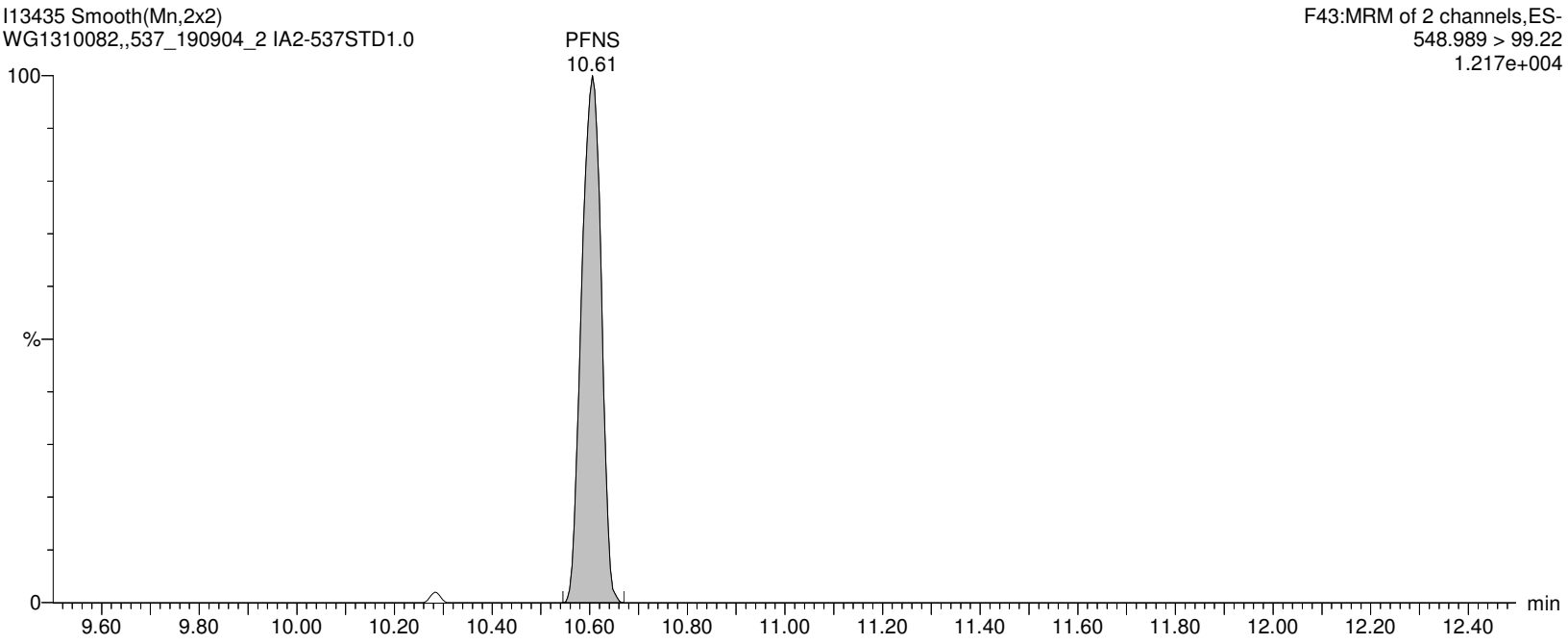

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
Time: 10:53:49
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User: LCMS02:JW
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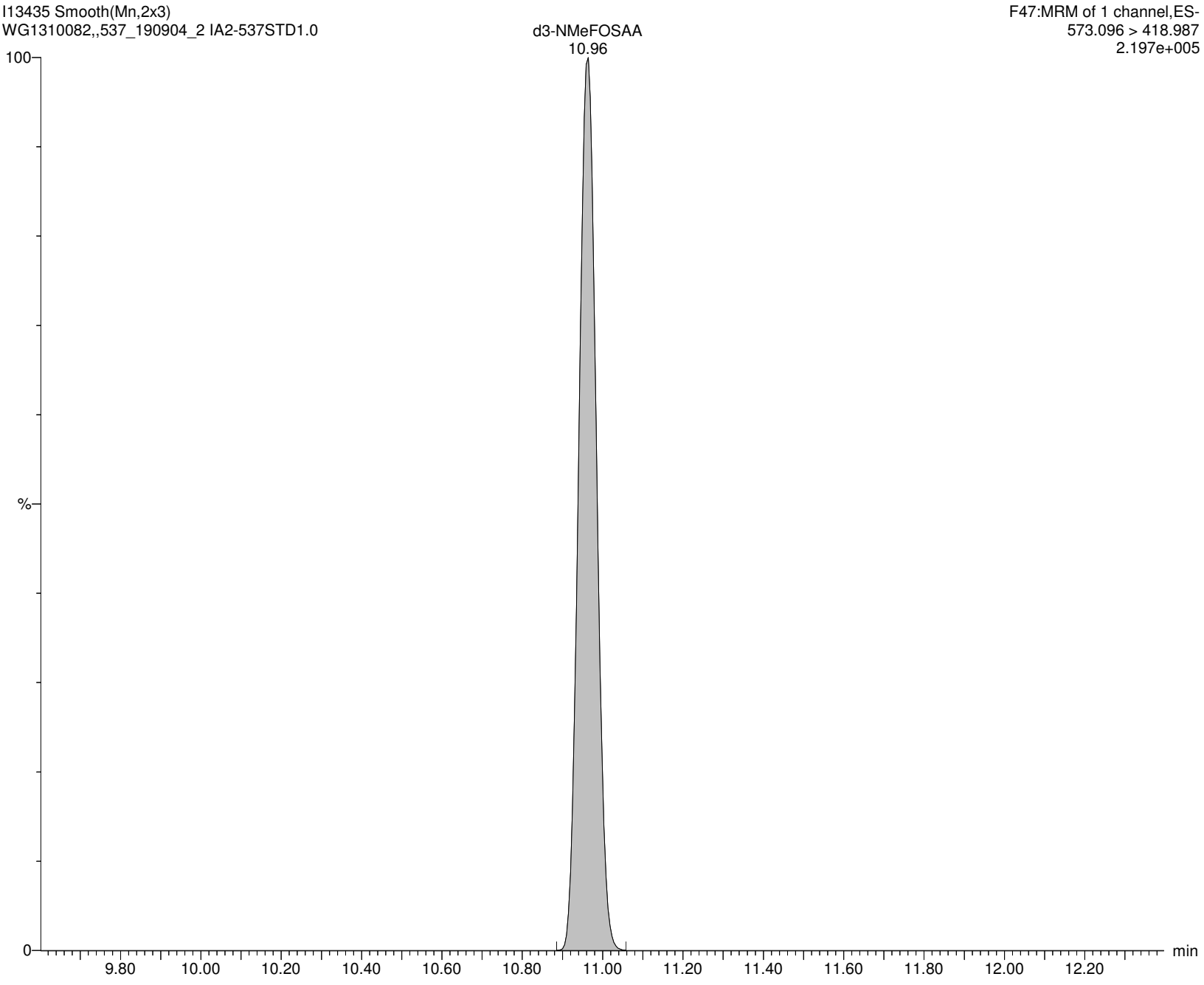

all concentration units in (ng/mL)

Alpha Analytical Inc.
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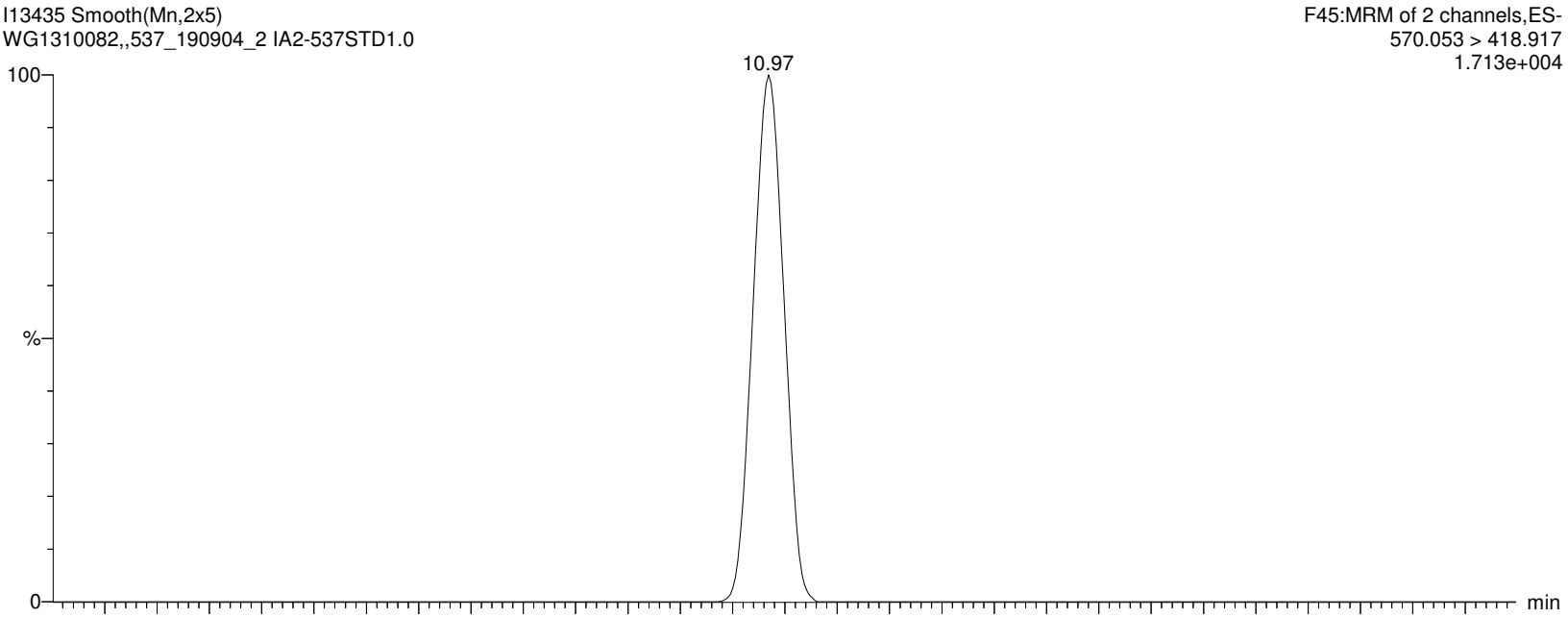

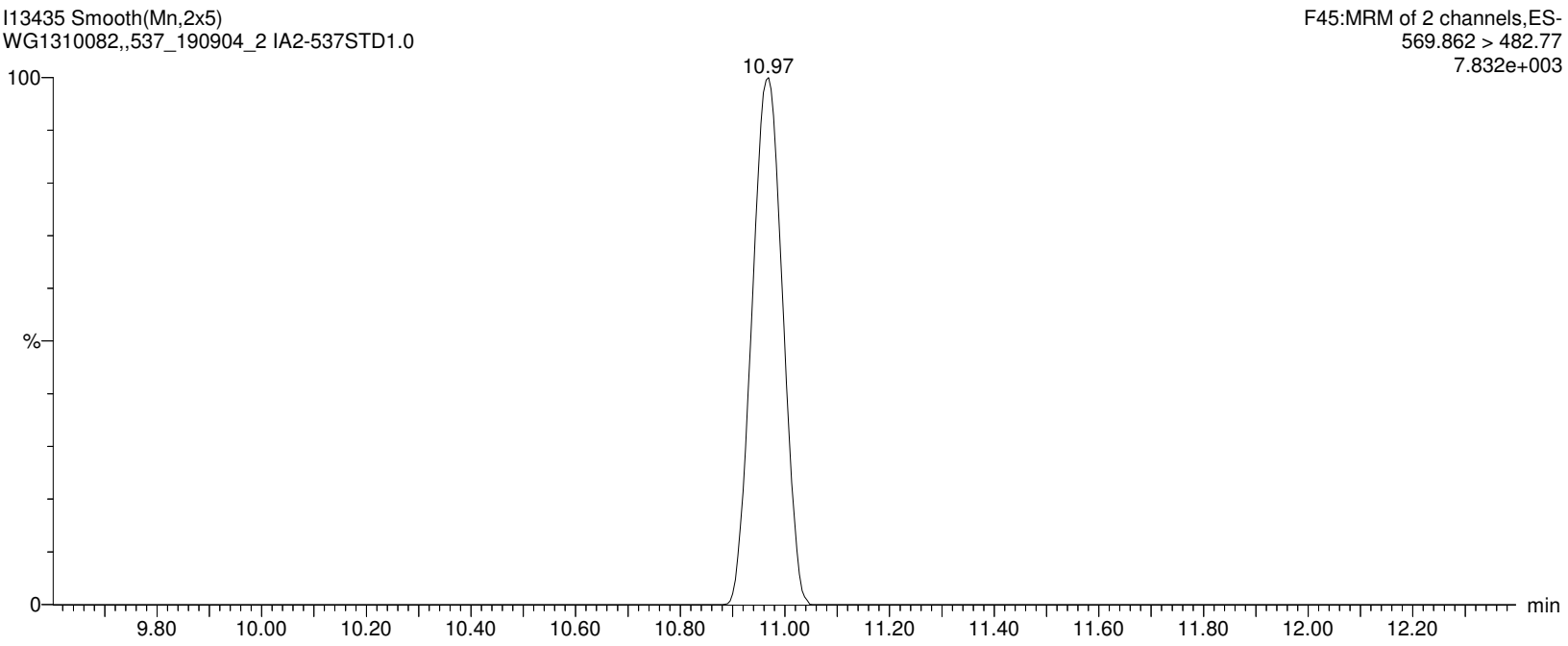

all concentration units in (ng/mL)

Alpha Analytical Inc.
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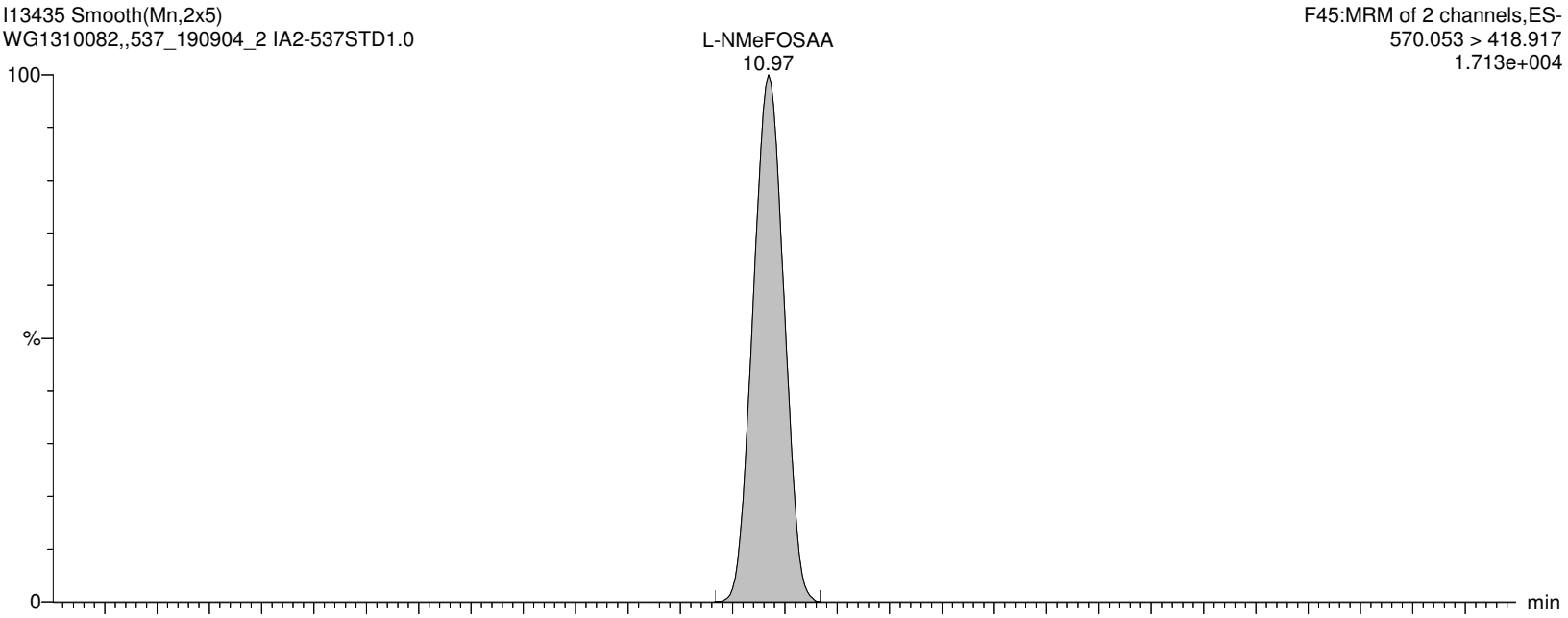

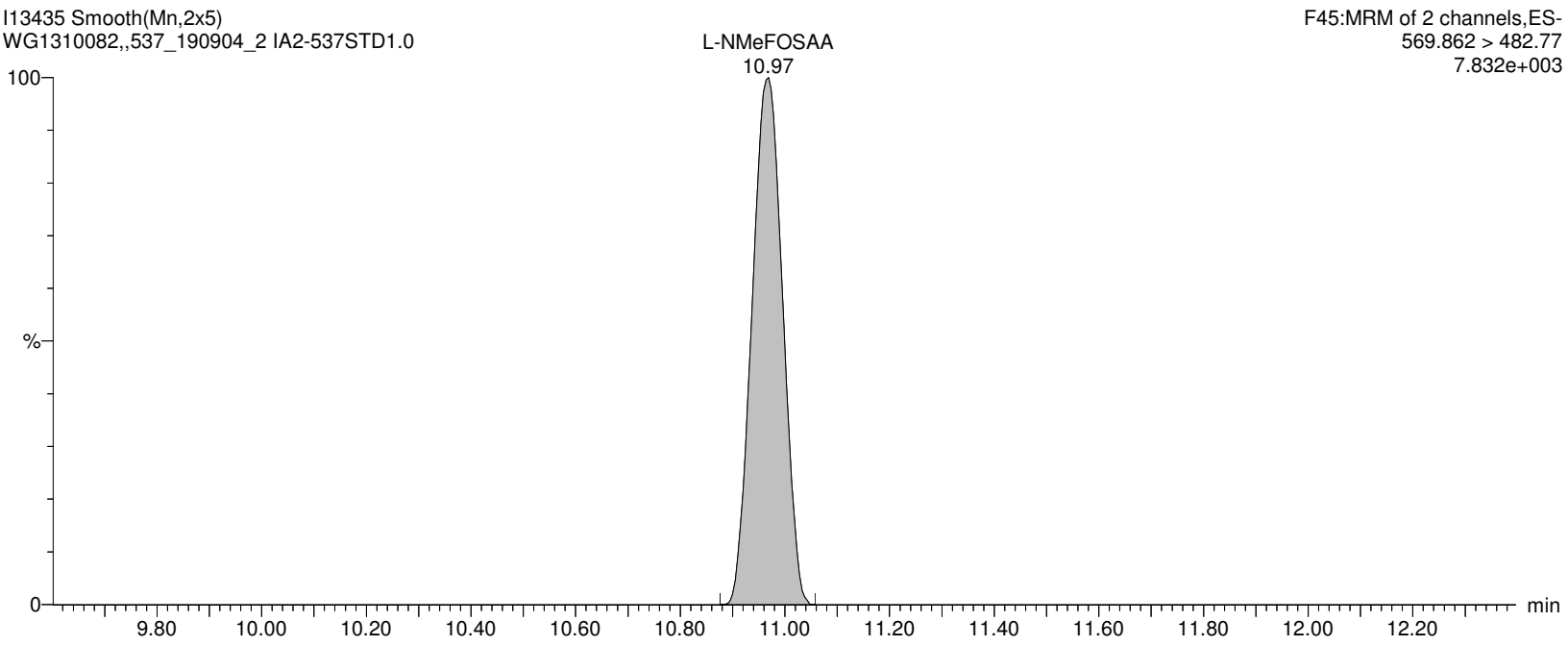

all concentration units in (ng/mL)

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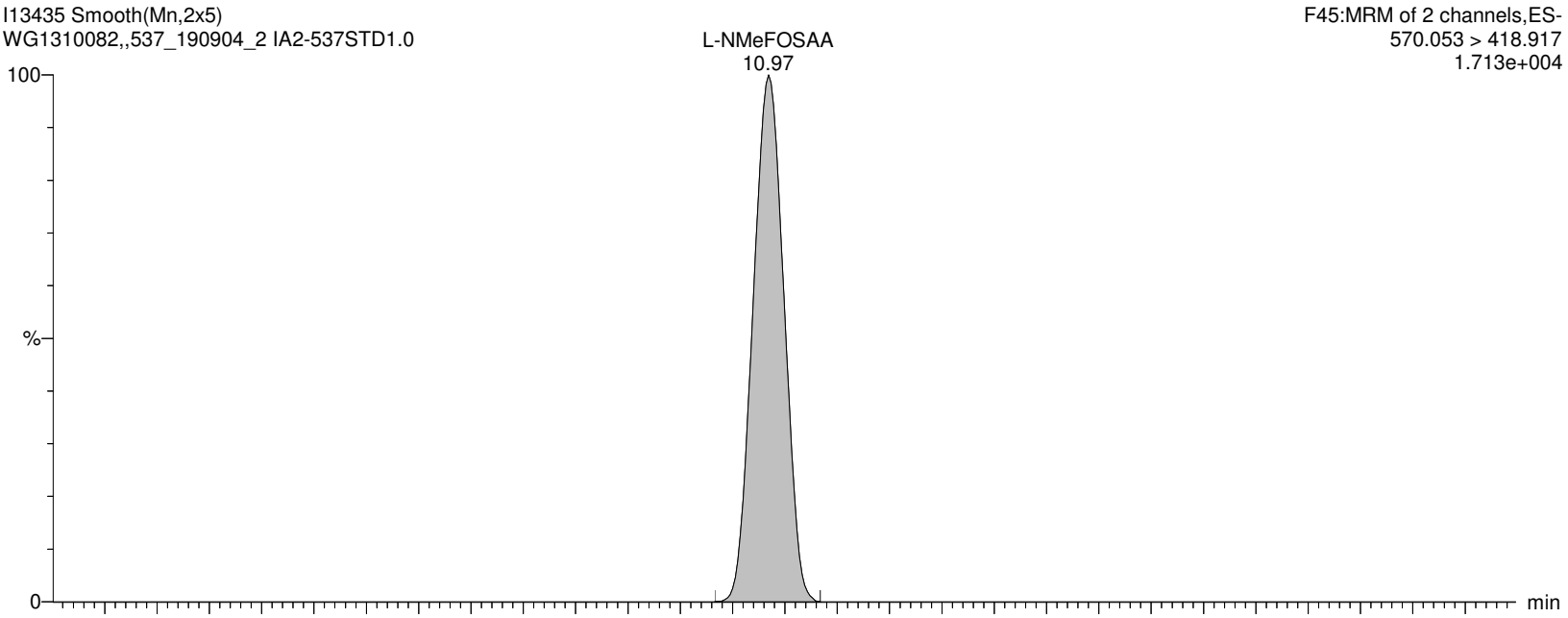

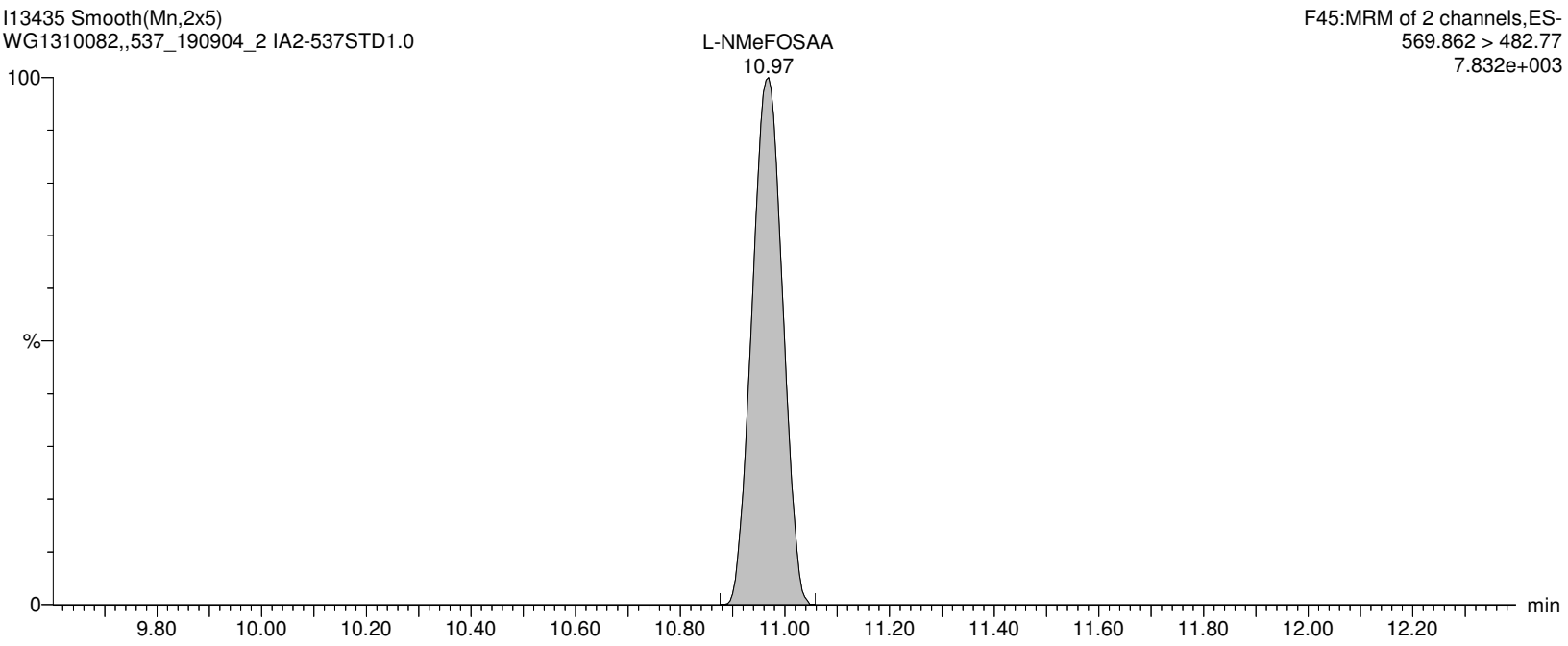

all concentration units in (ng/mL)

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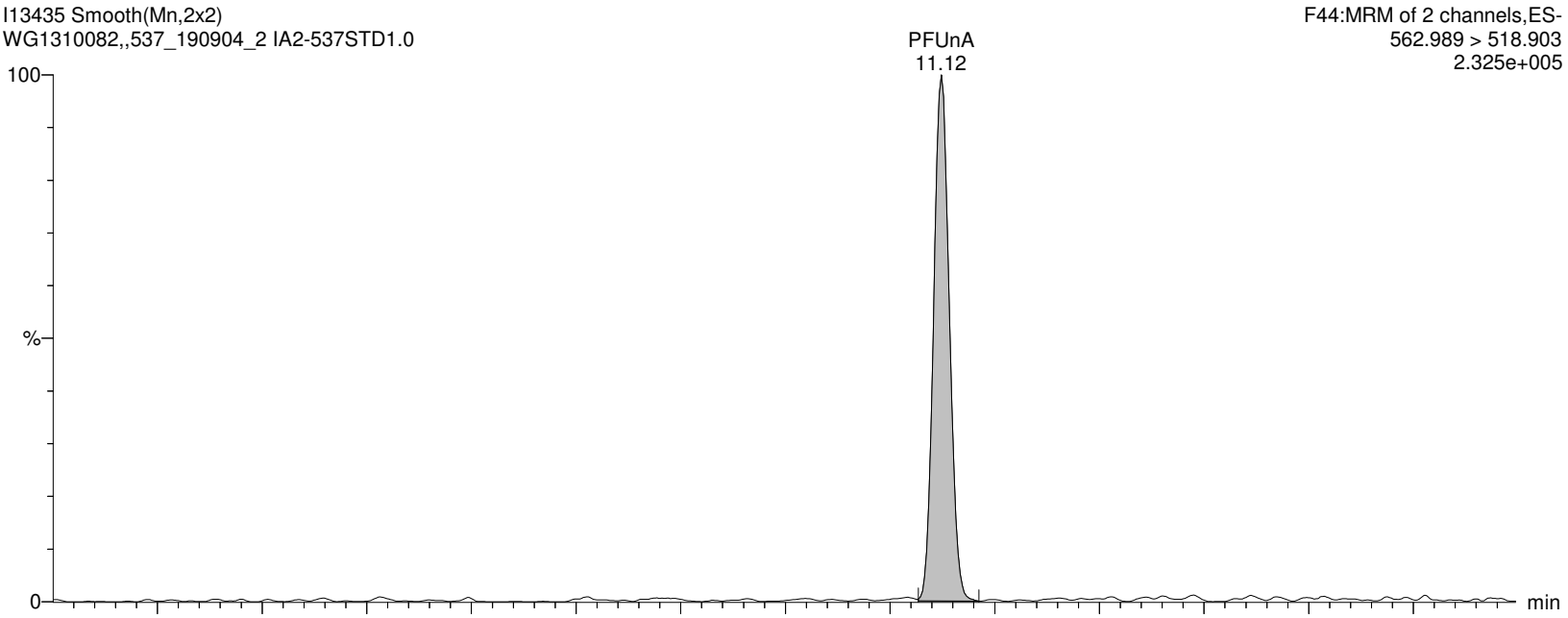

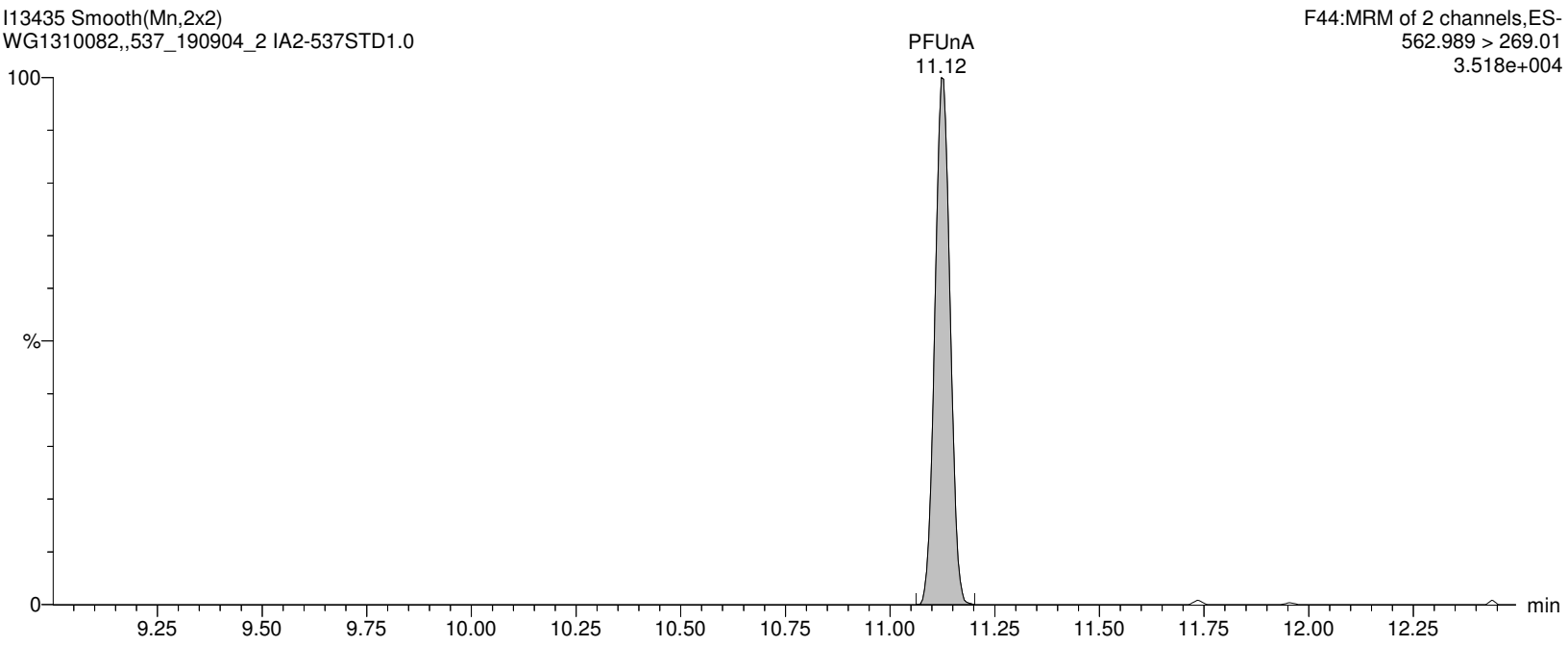

all concentration units in (ng/mL)

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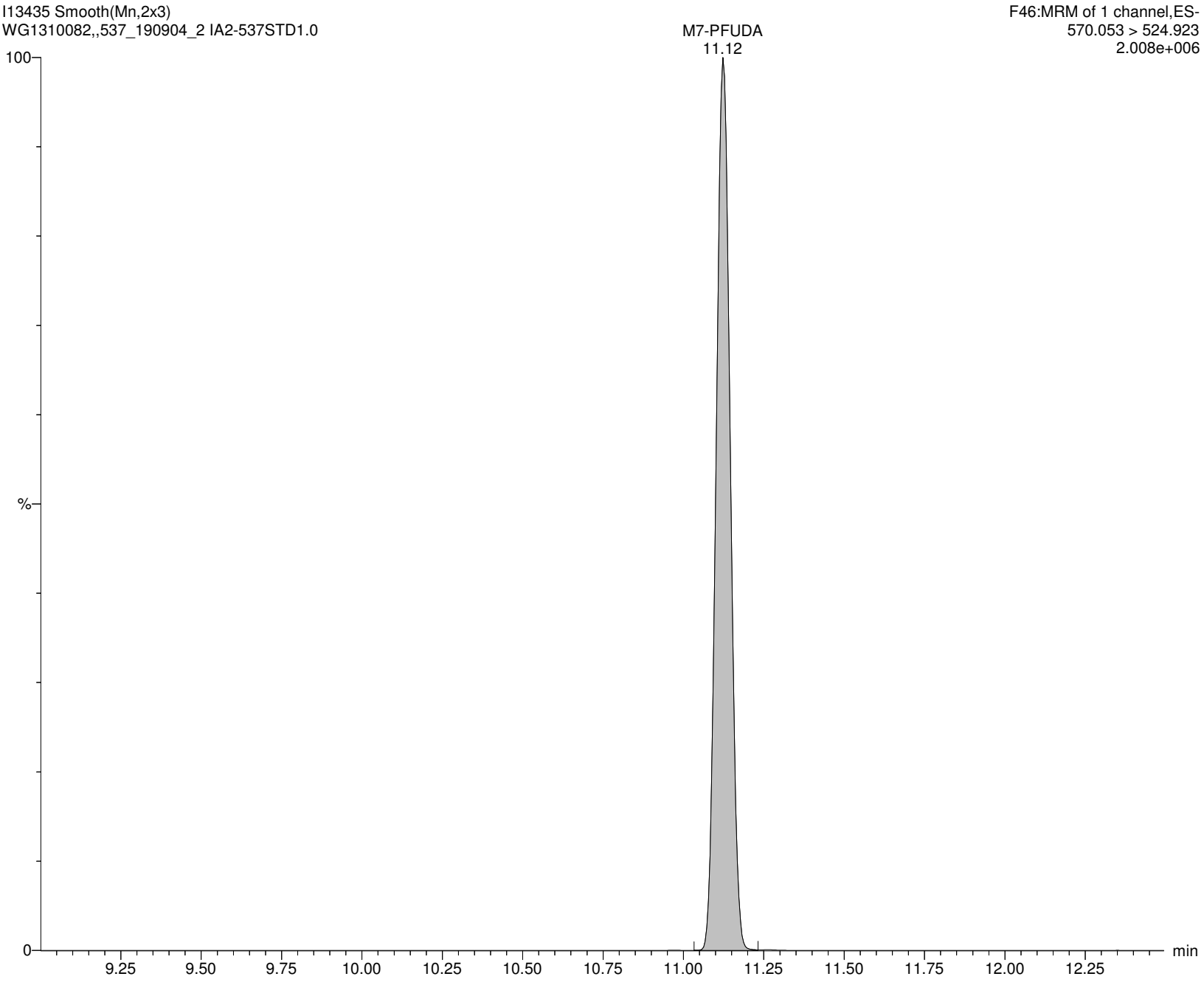
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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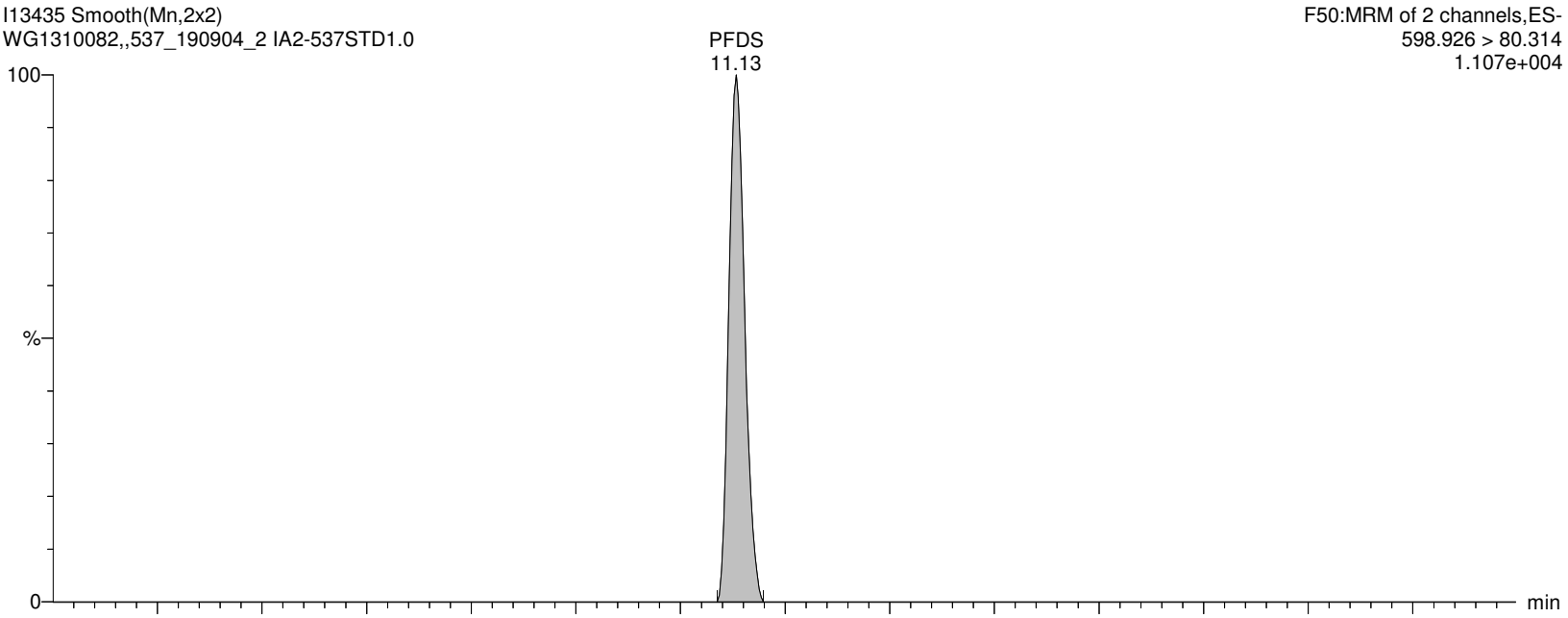

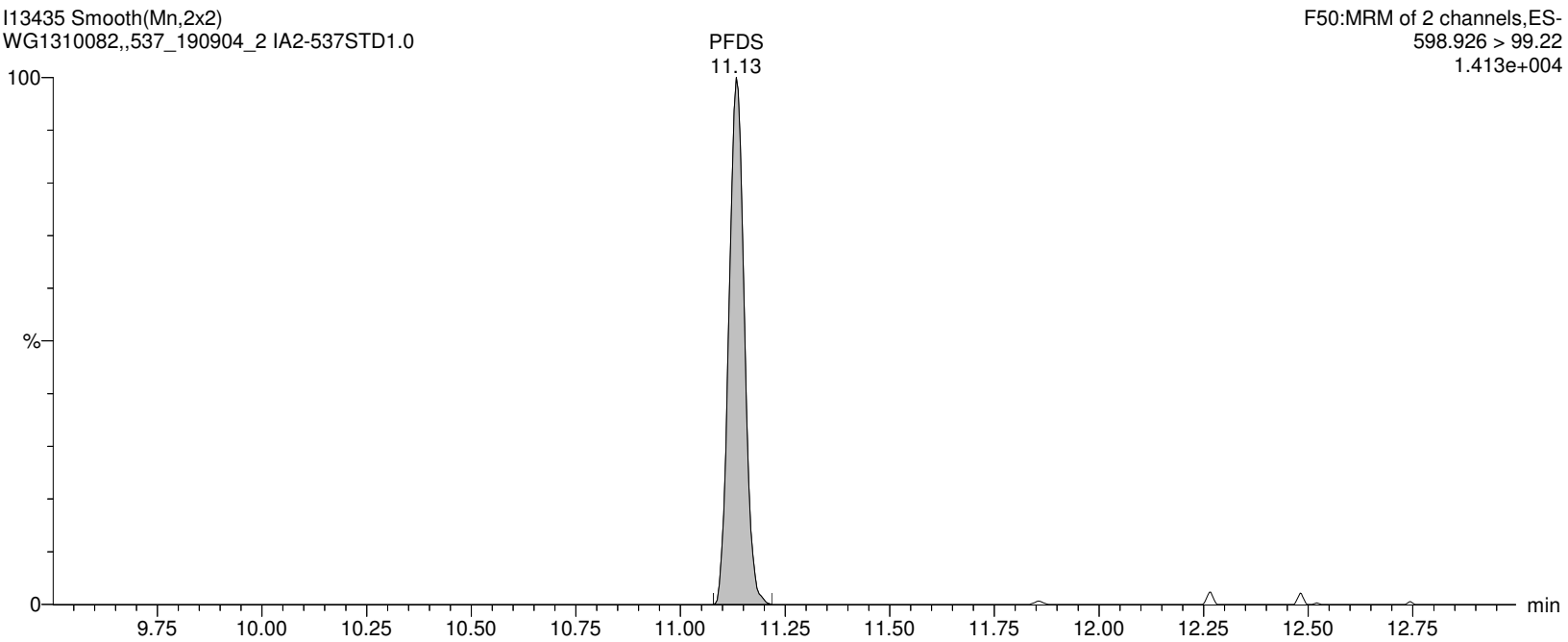

all concentration units in (ng/mL)

Alpha Analytical Inc.
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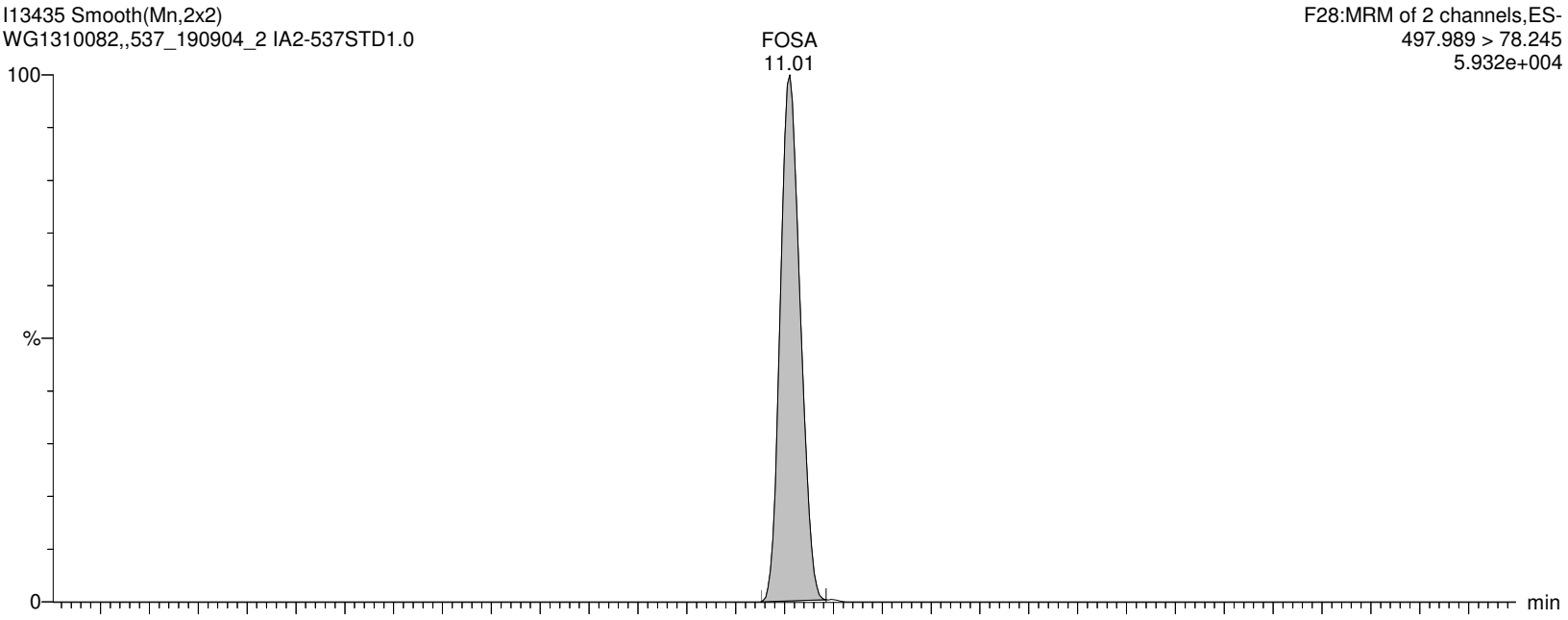

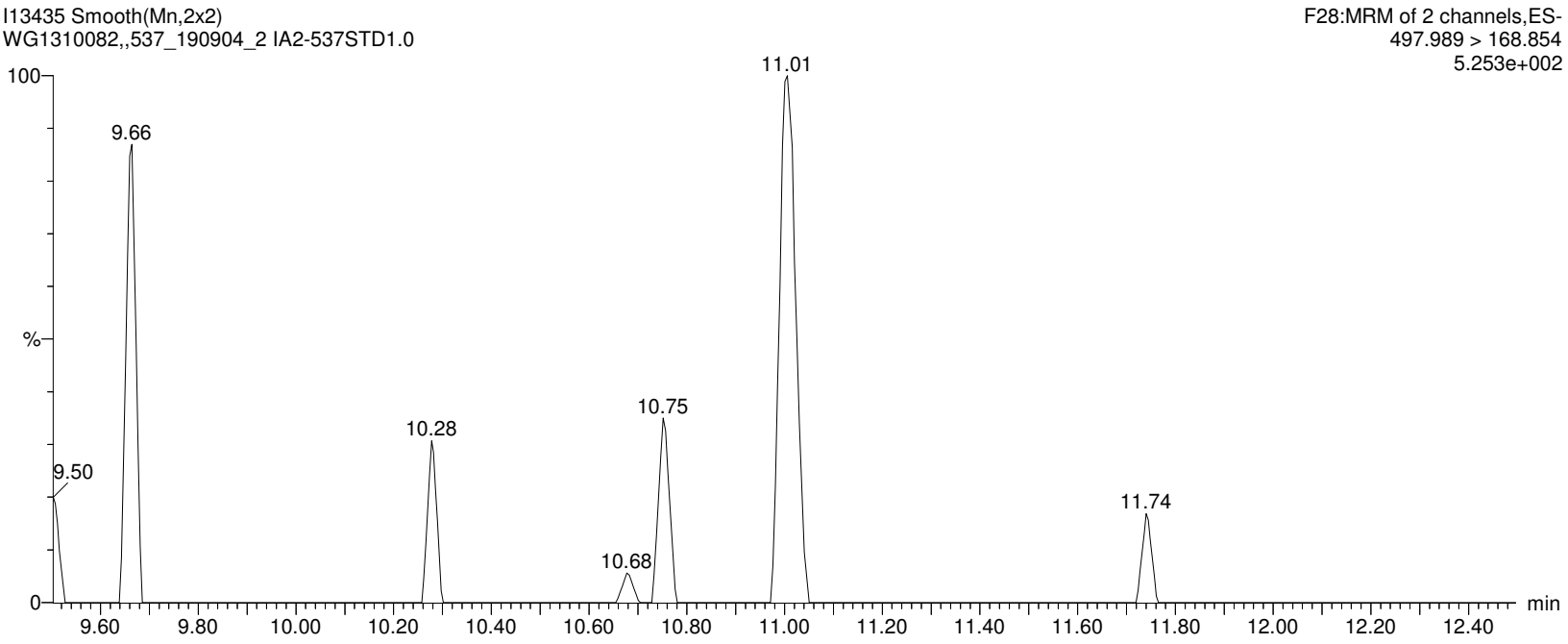

all concentration units in (ng/mL)

Alpha Analytical Inc.
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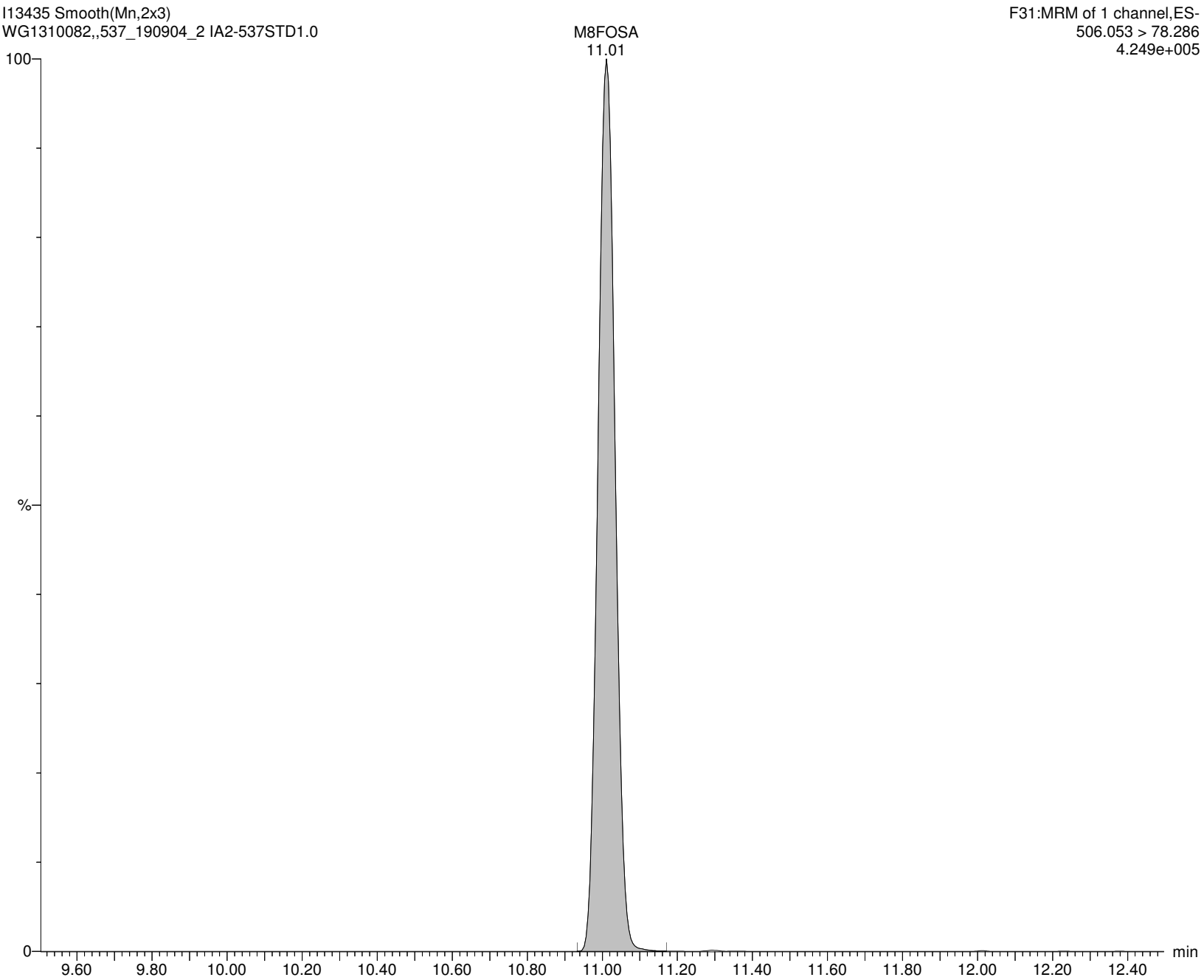

all concentration units in (ng/mL)

Alpha Analytical Inc.
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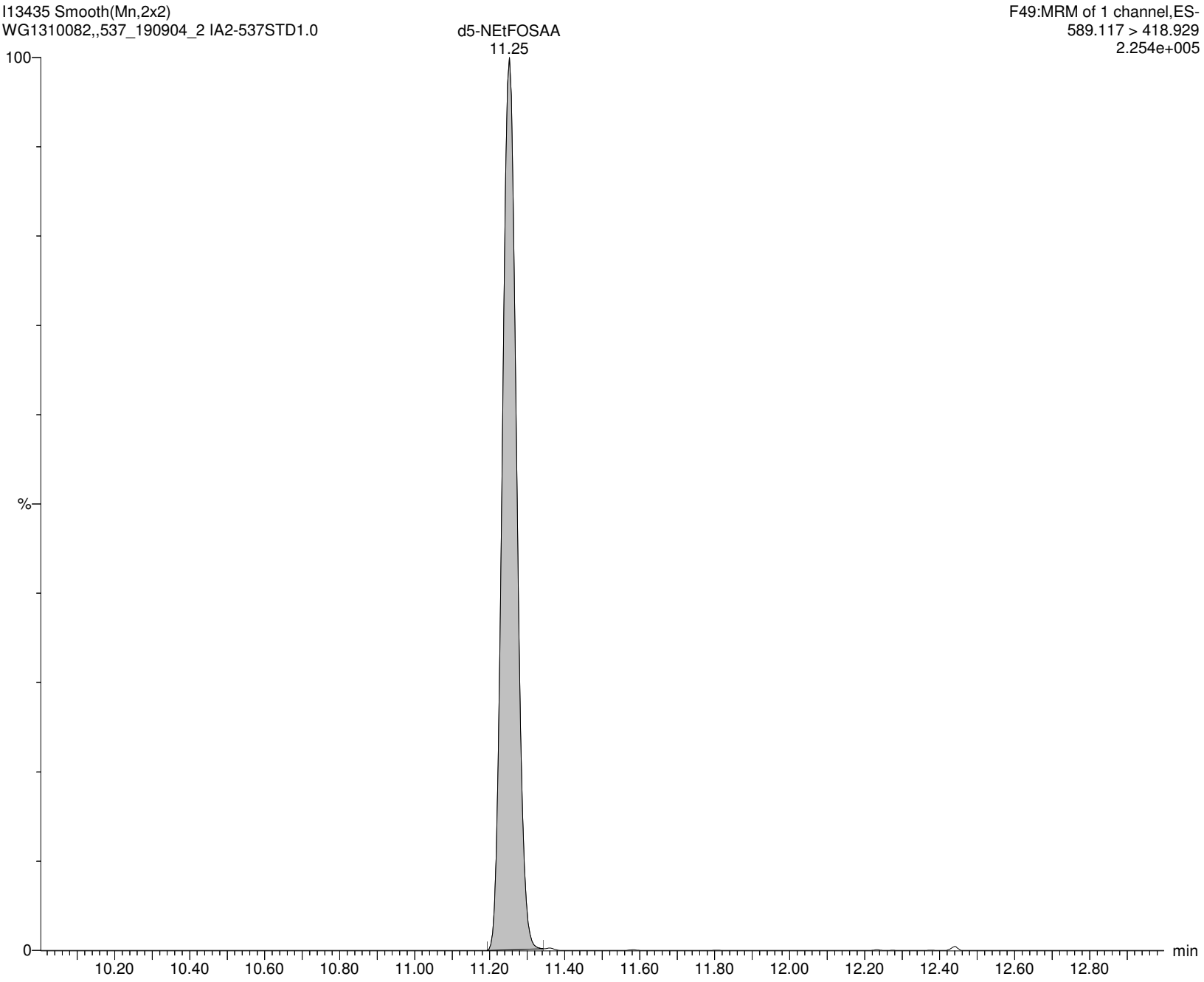

all concentration units in (ng/mL)

Alpha Analytical Inc.
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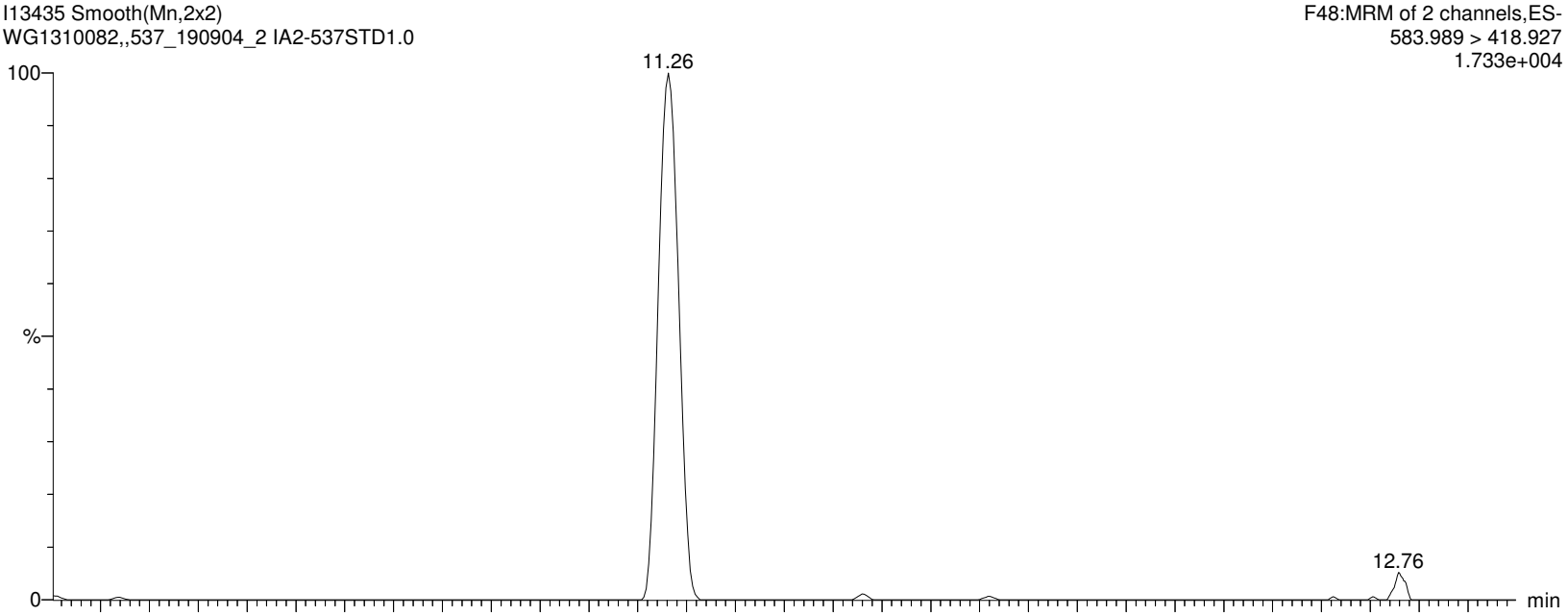

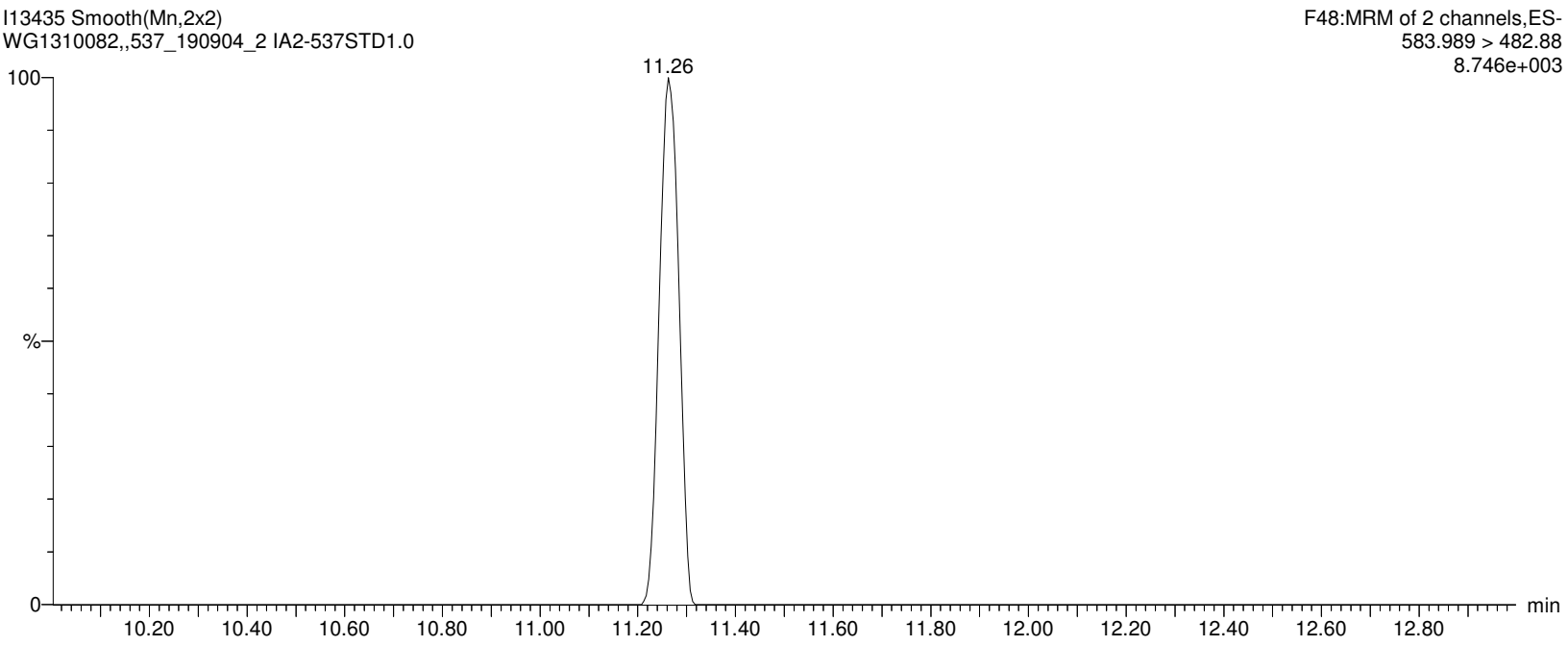

all concentration units in (ng/mL)

Alpha Analytical Inc.
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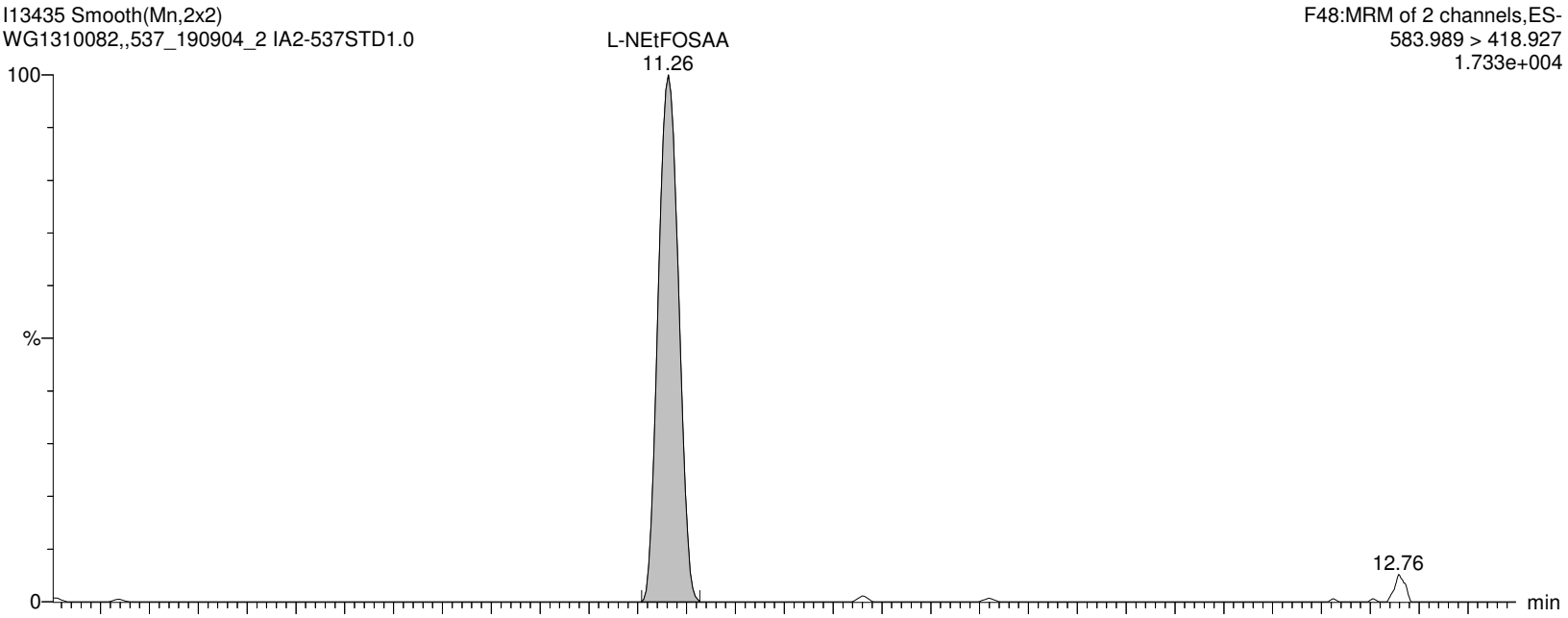
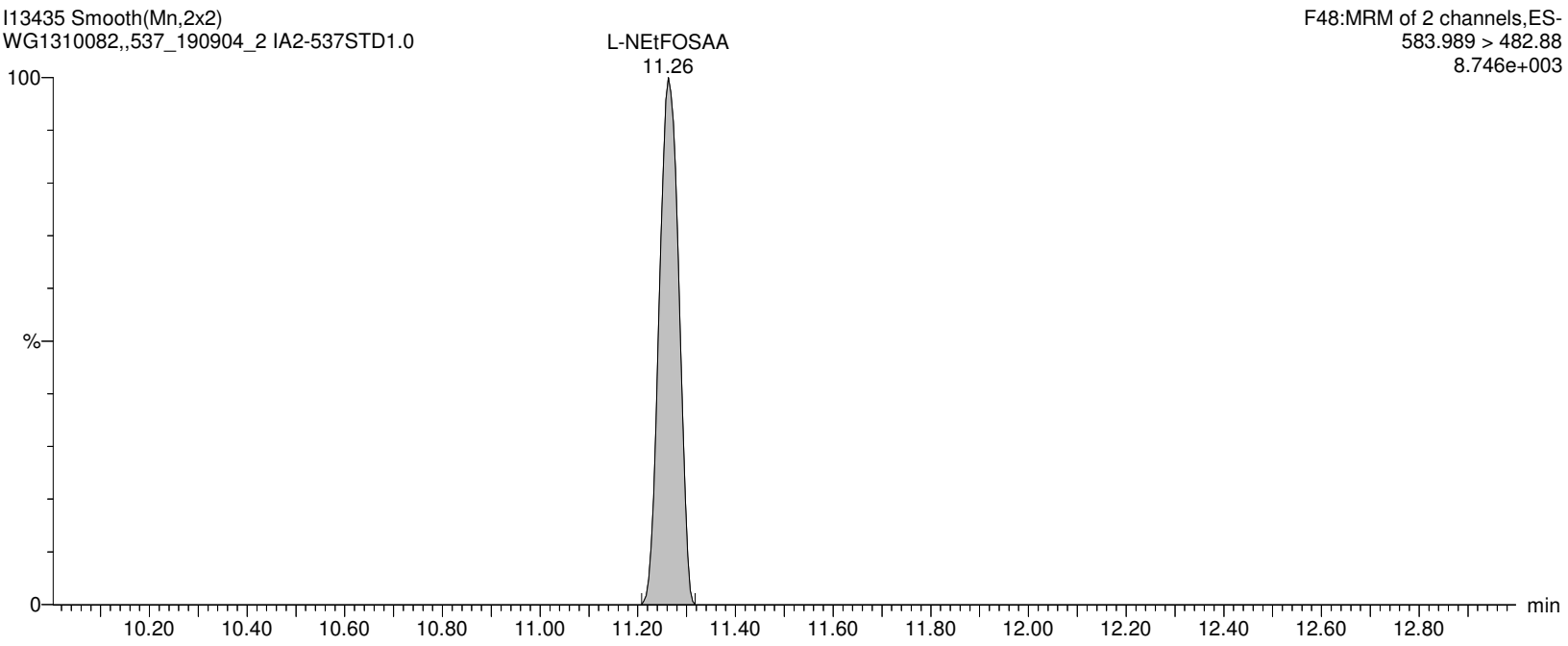
L-NEtFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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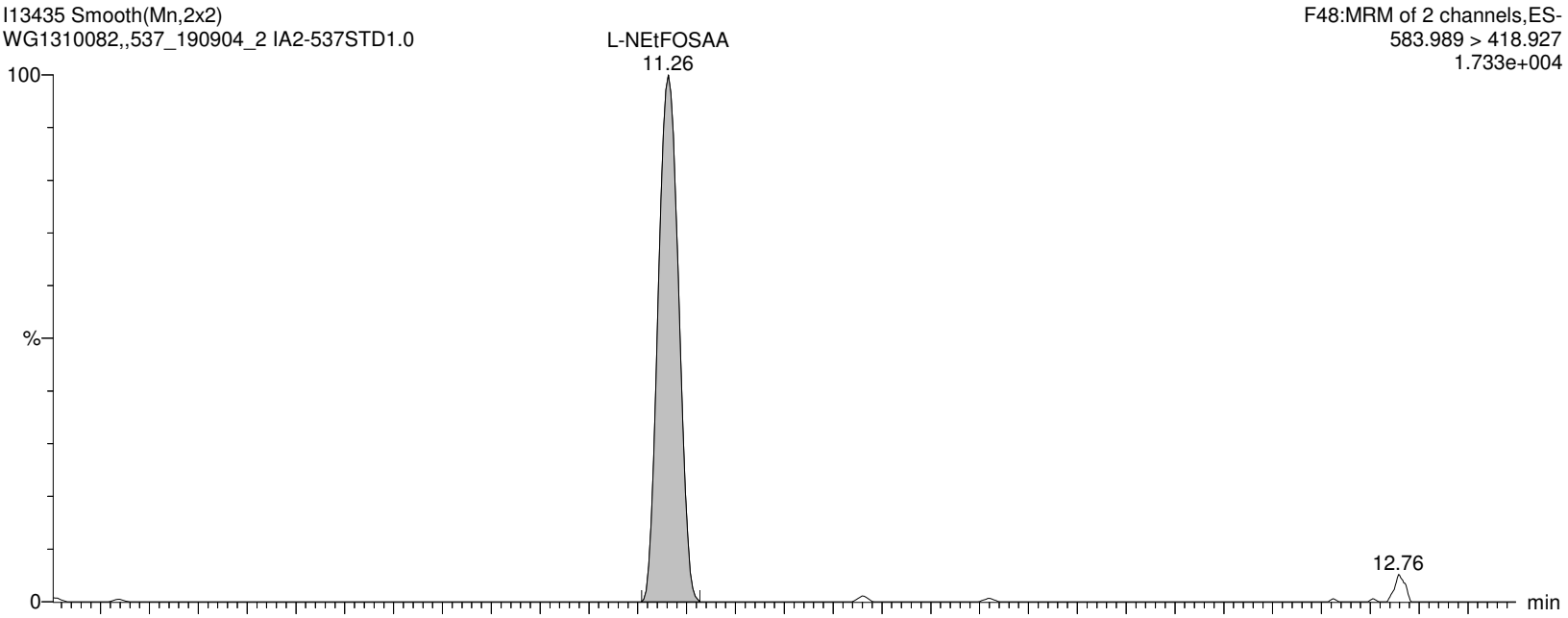
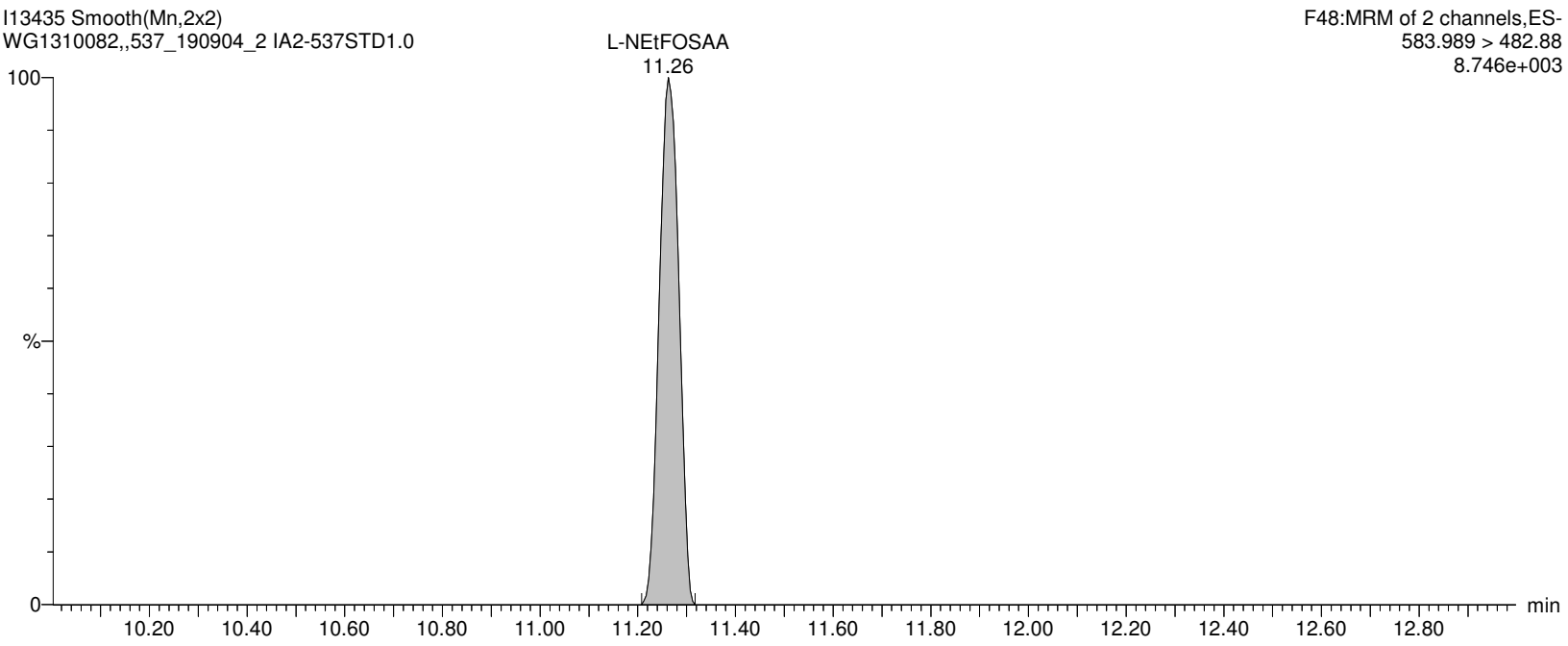
NEtFOSAA





all concentration units in (ng/mL)

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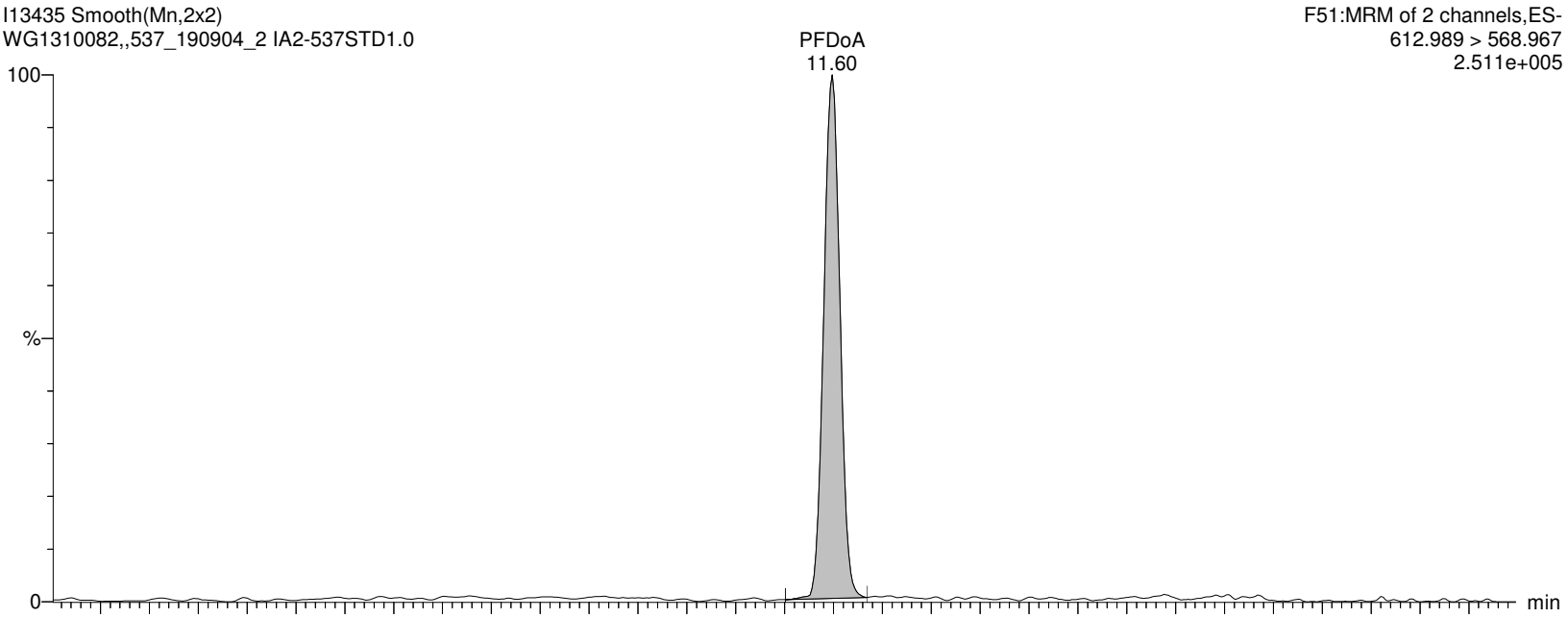

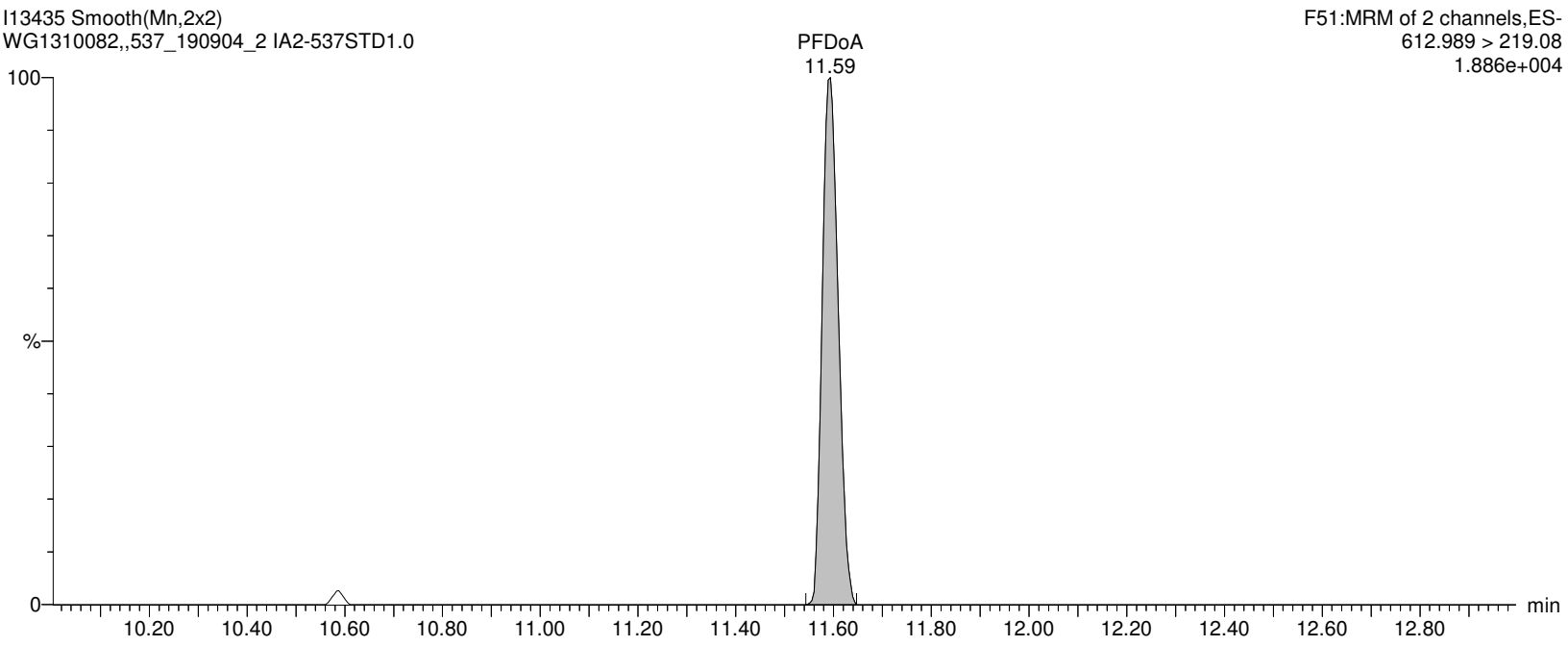

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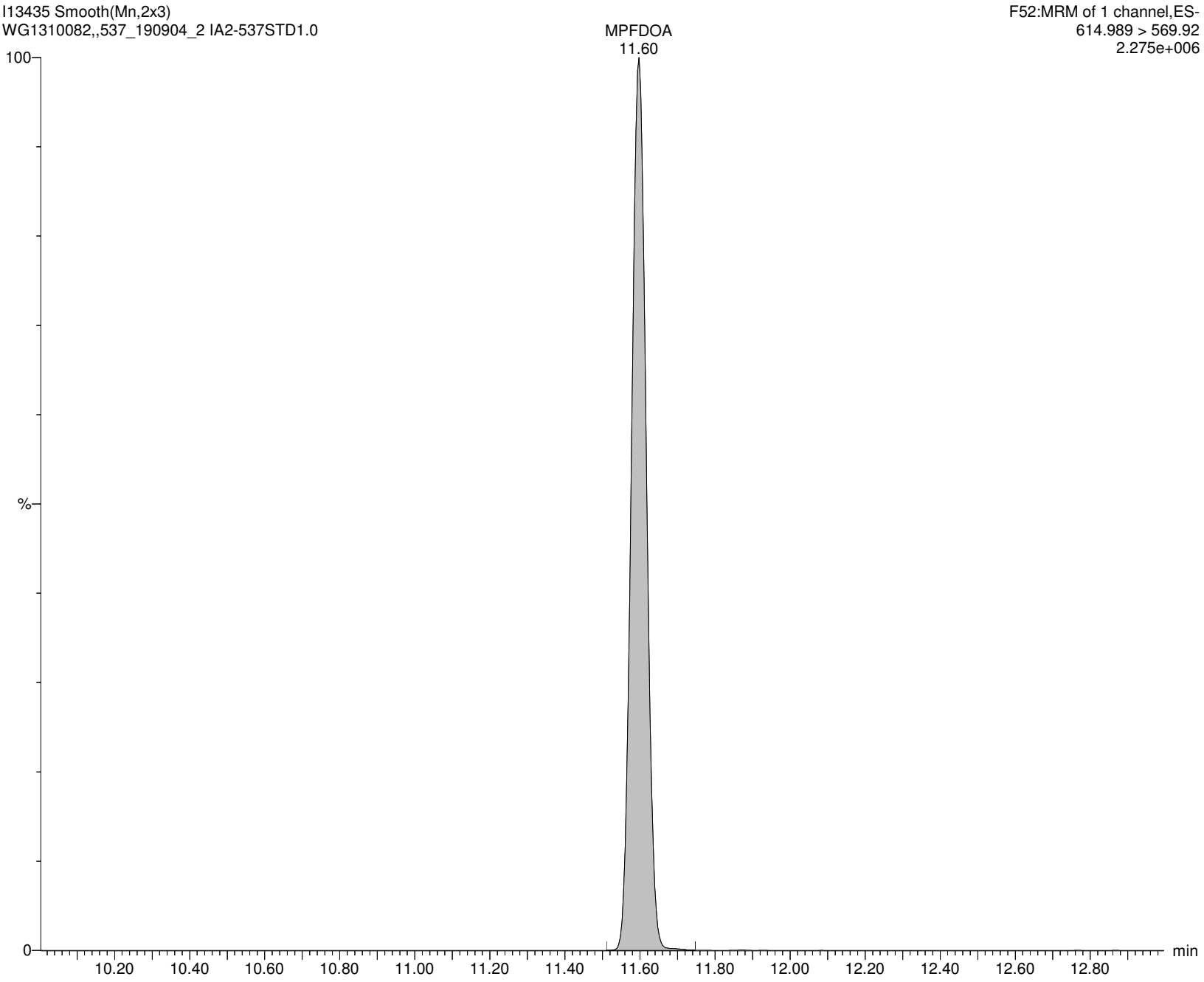

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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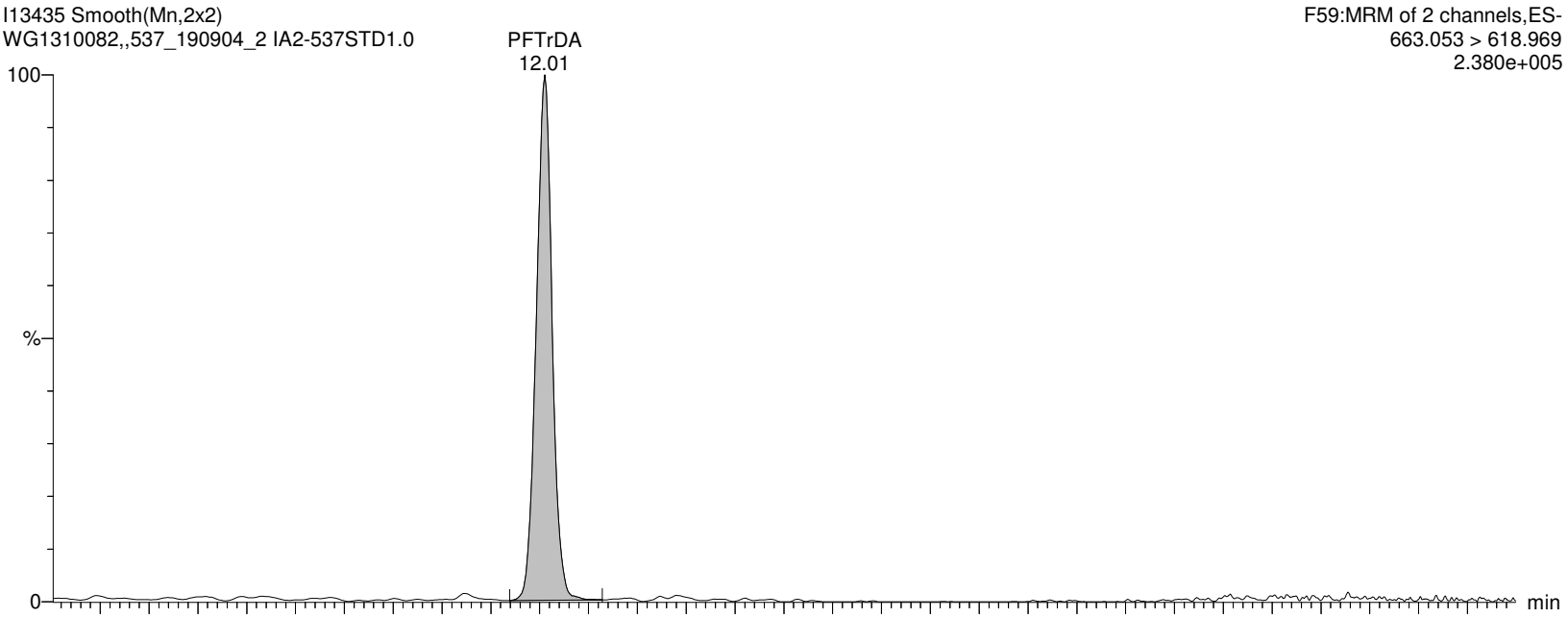

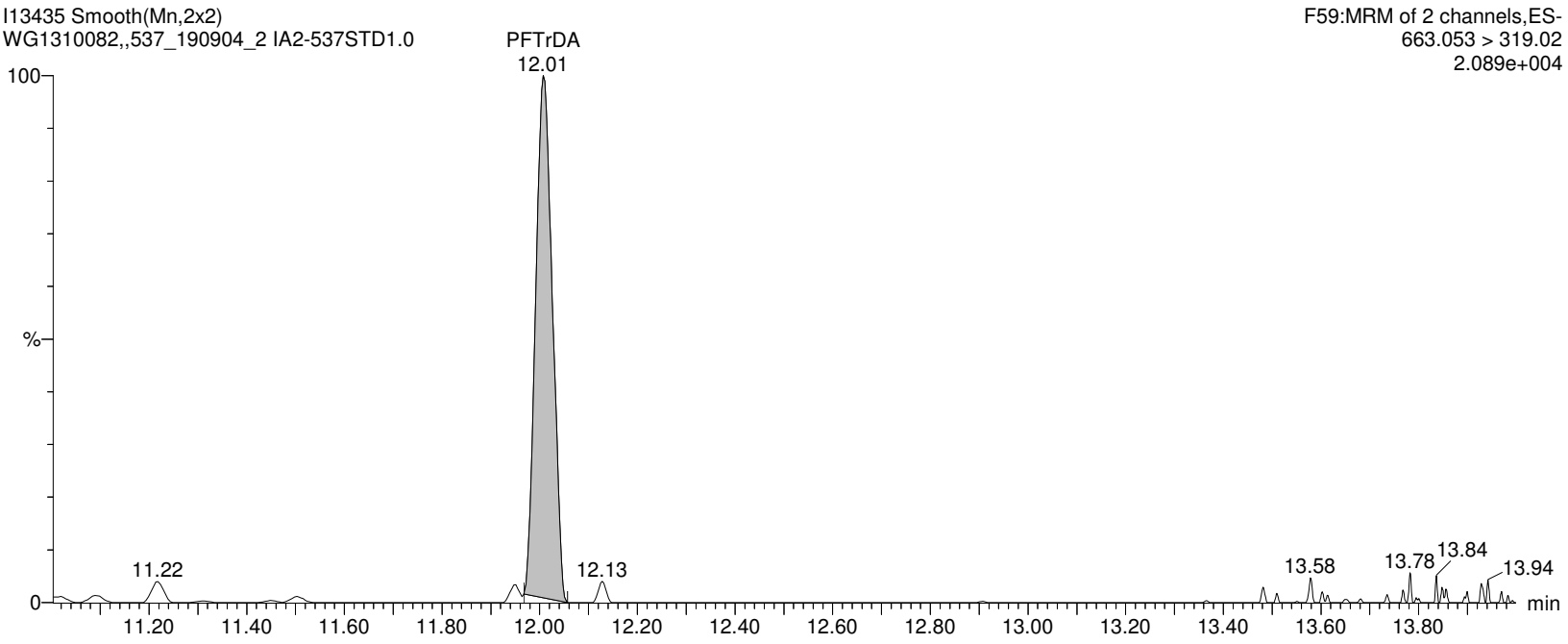

all concentration units in (ng/mL)

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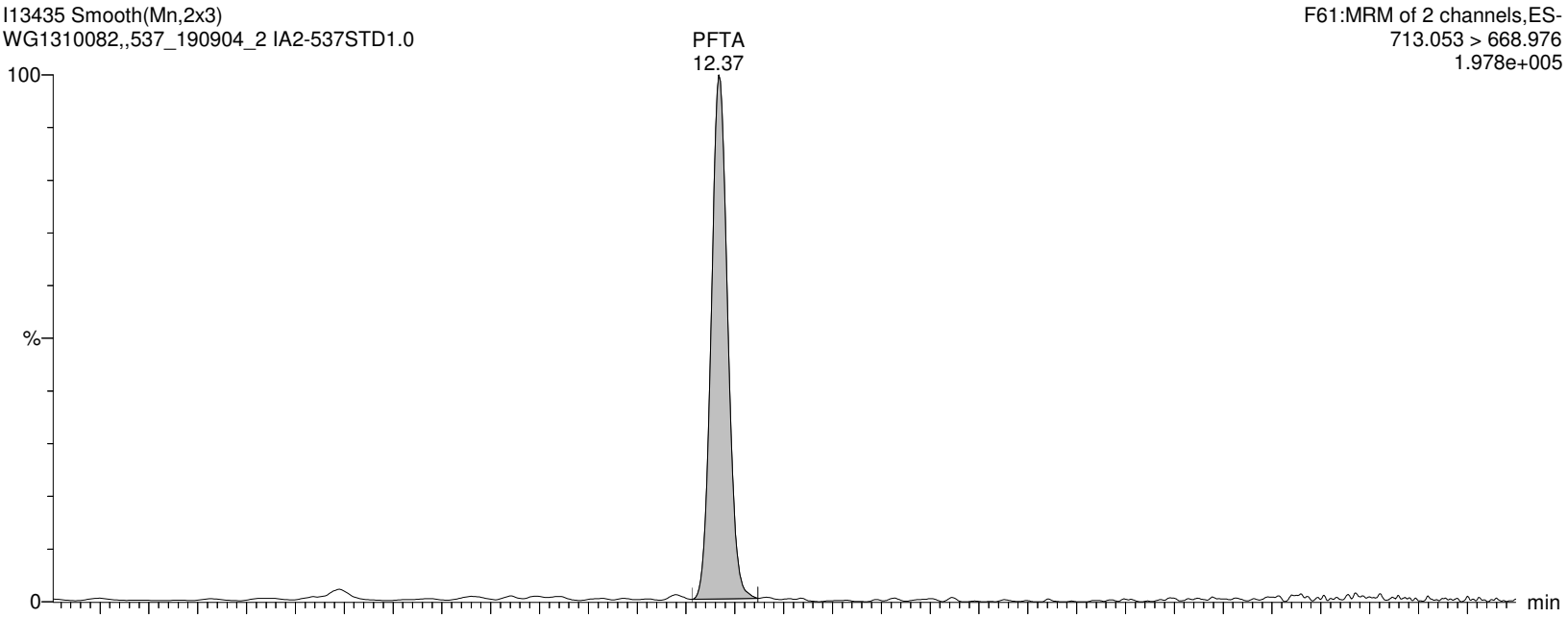

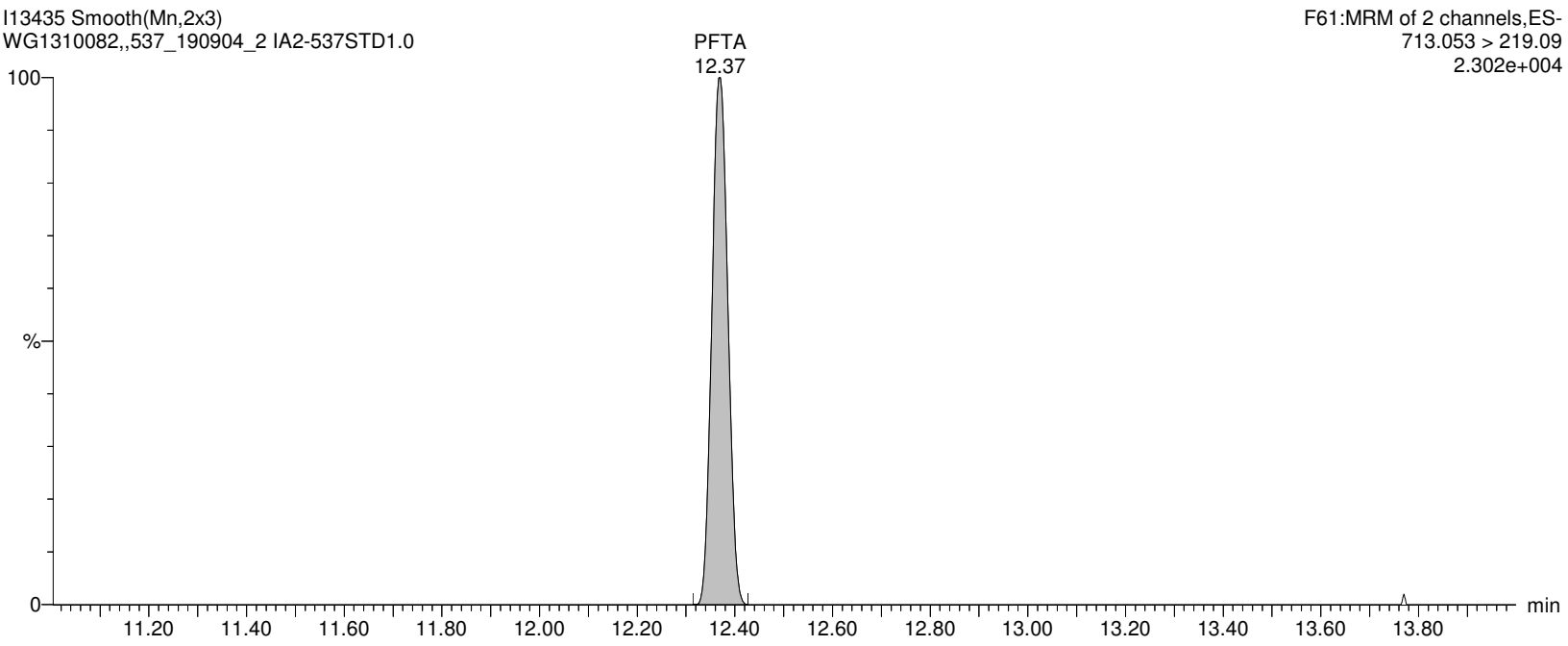

all concentration units in (ng/mL)

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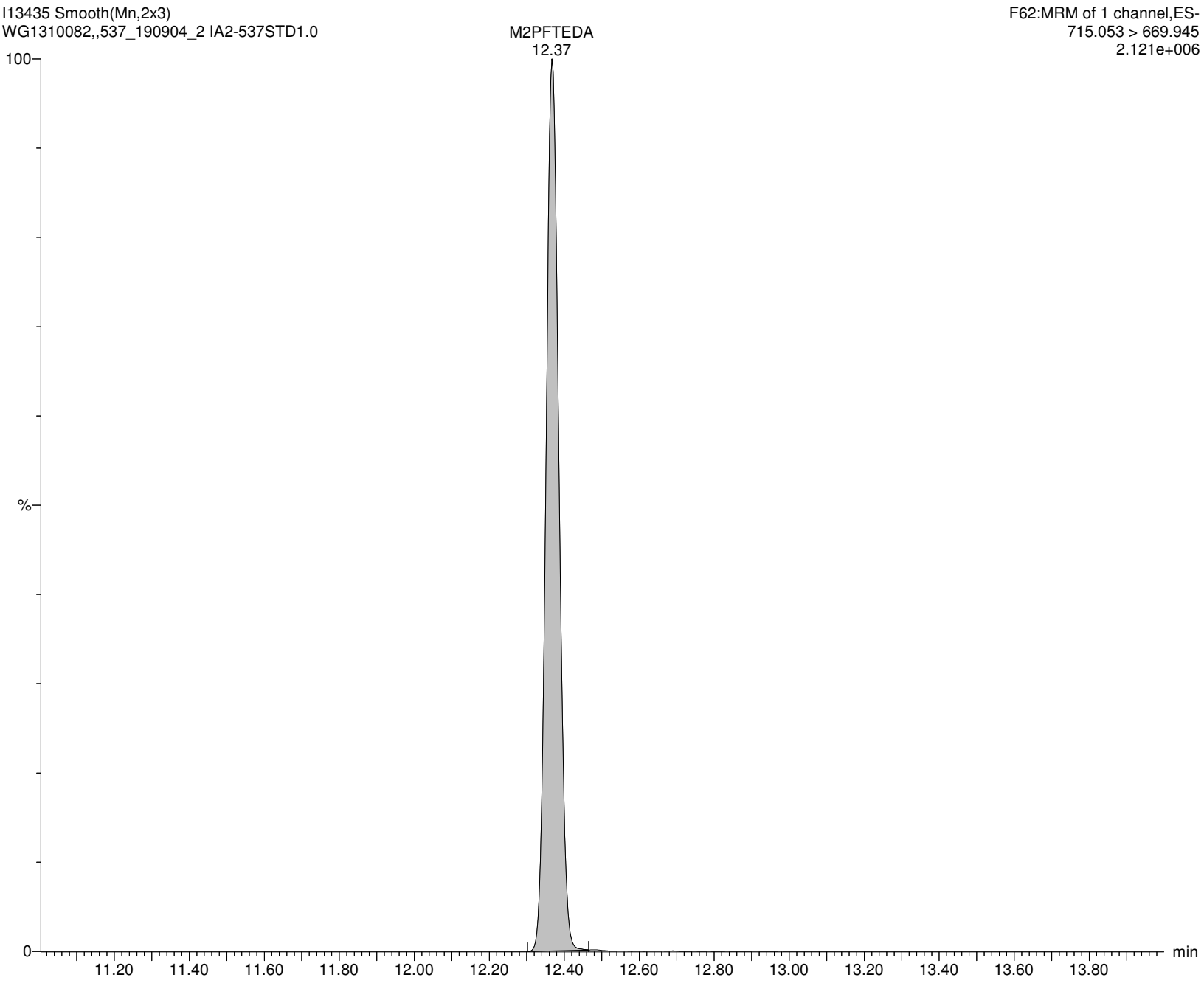

all concentration units in (ng/mL)

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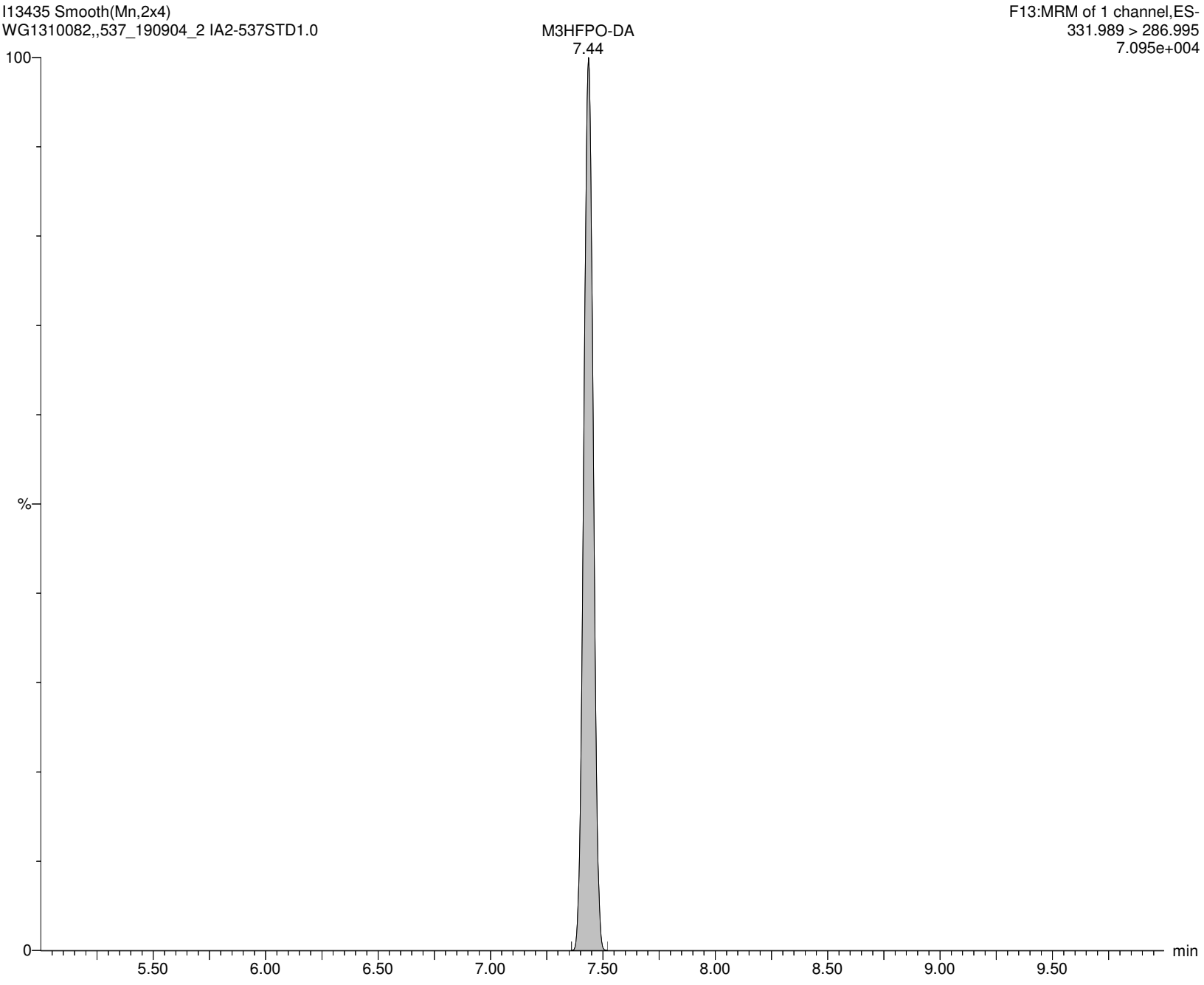

all concentration units in (ng/mL)

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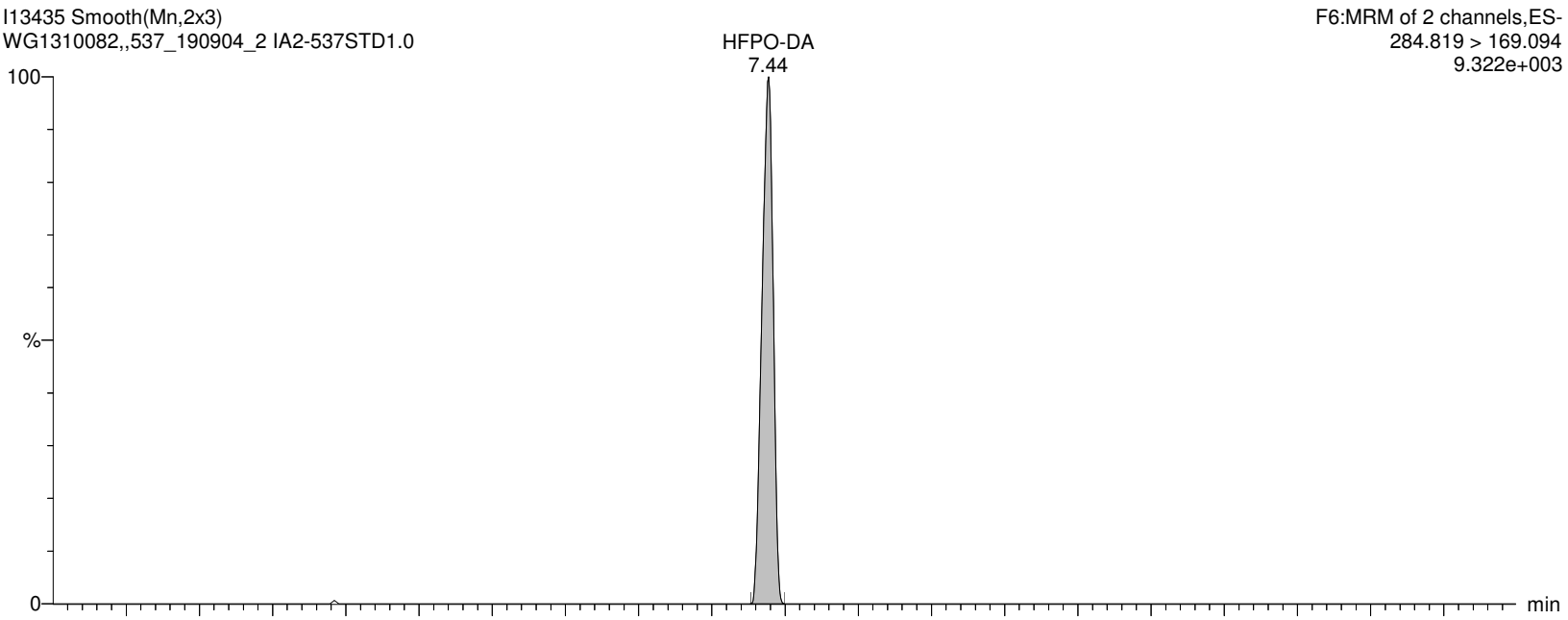
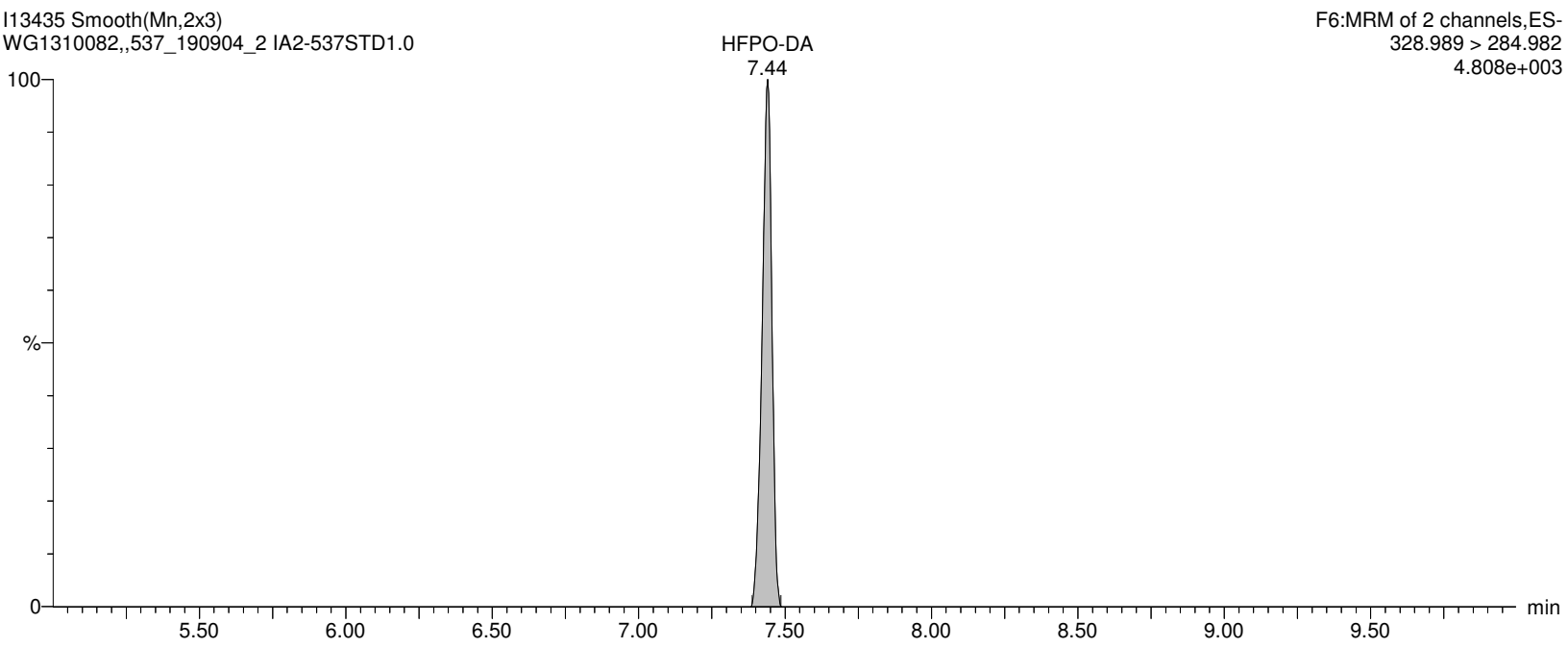
HFPO-DA





all concentration units in (ng/mL)

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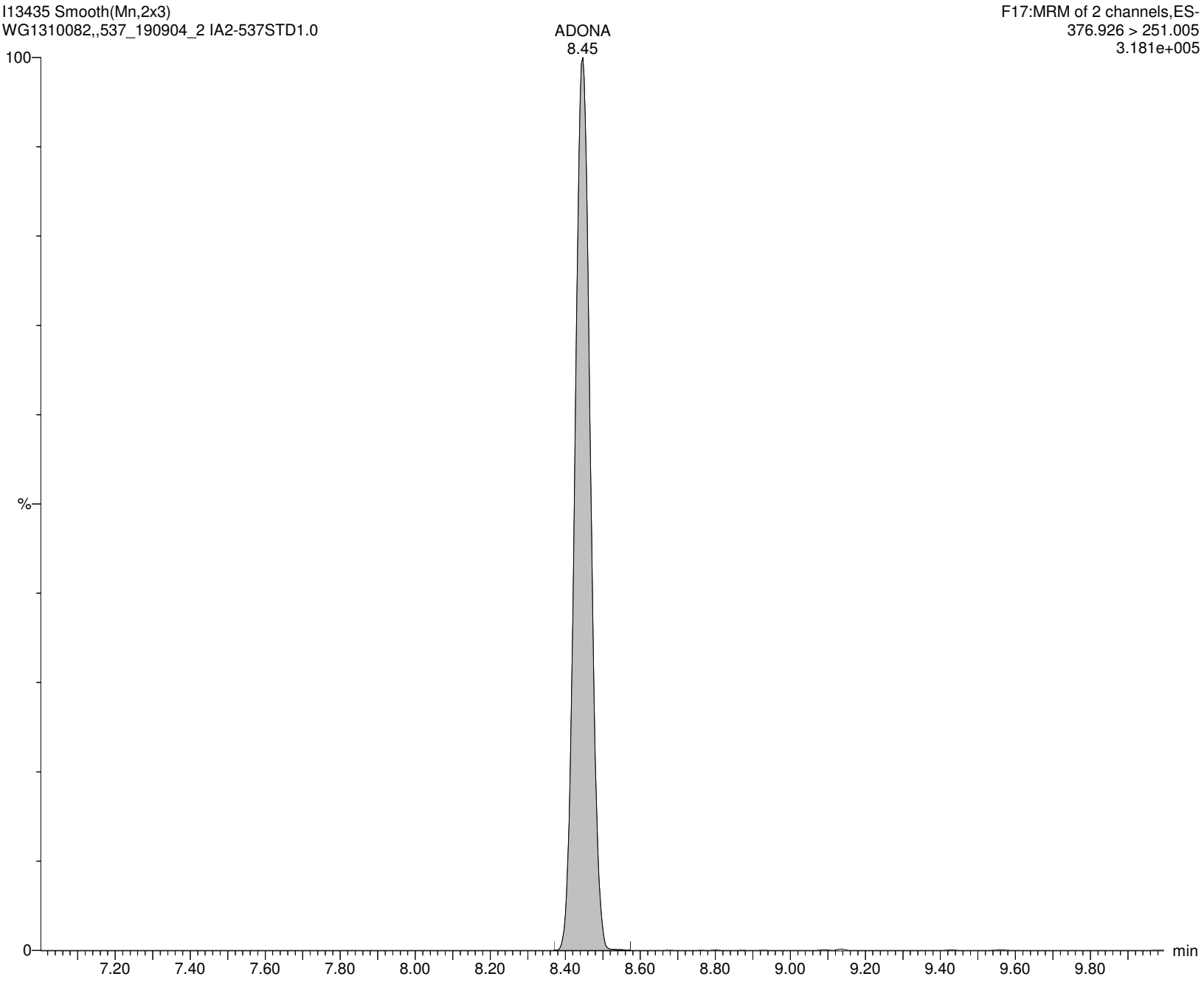

all concentration units in (ng/mL)

Alpha Analytical Inc.
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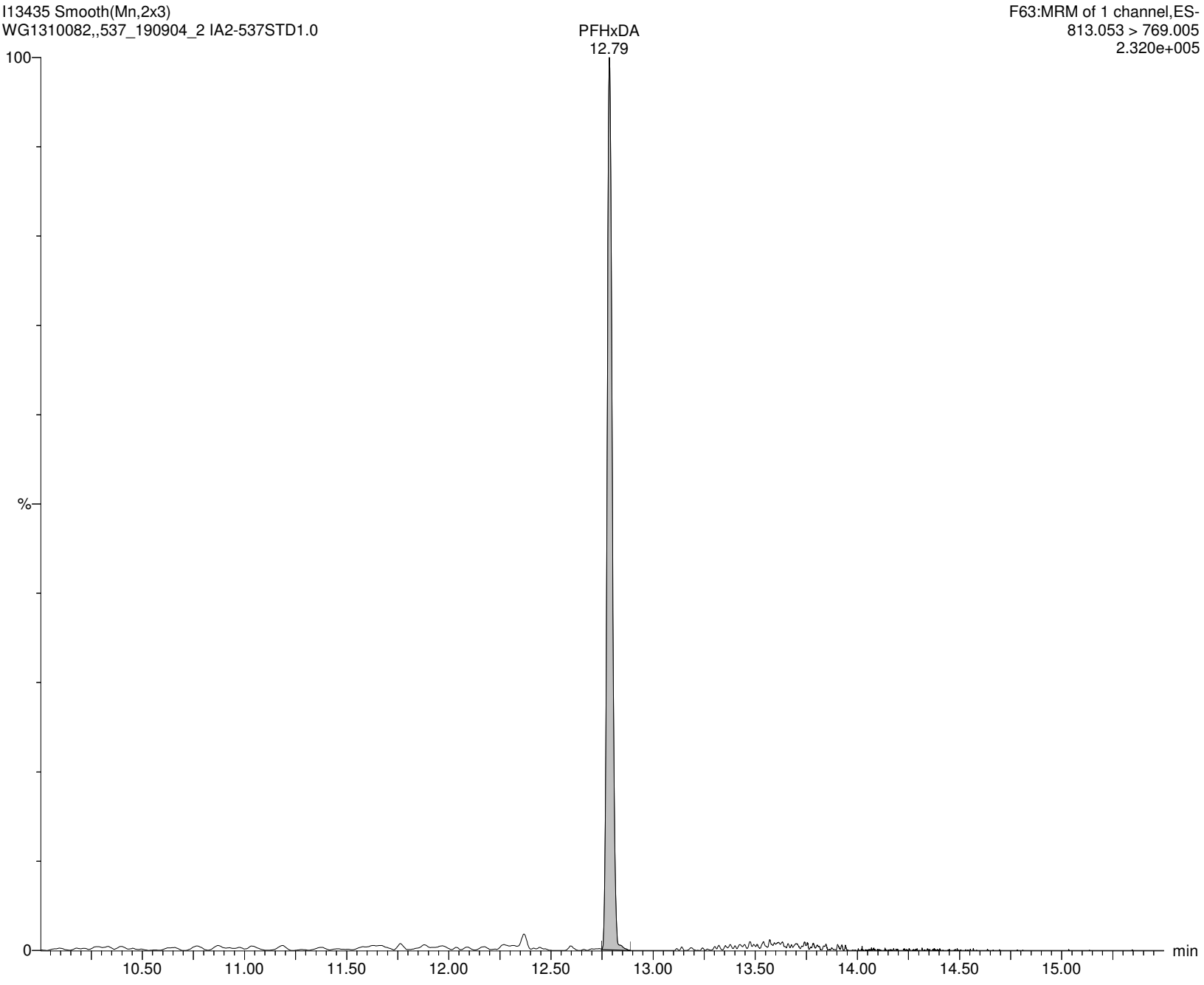

all concentration units in (ng/mL)

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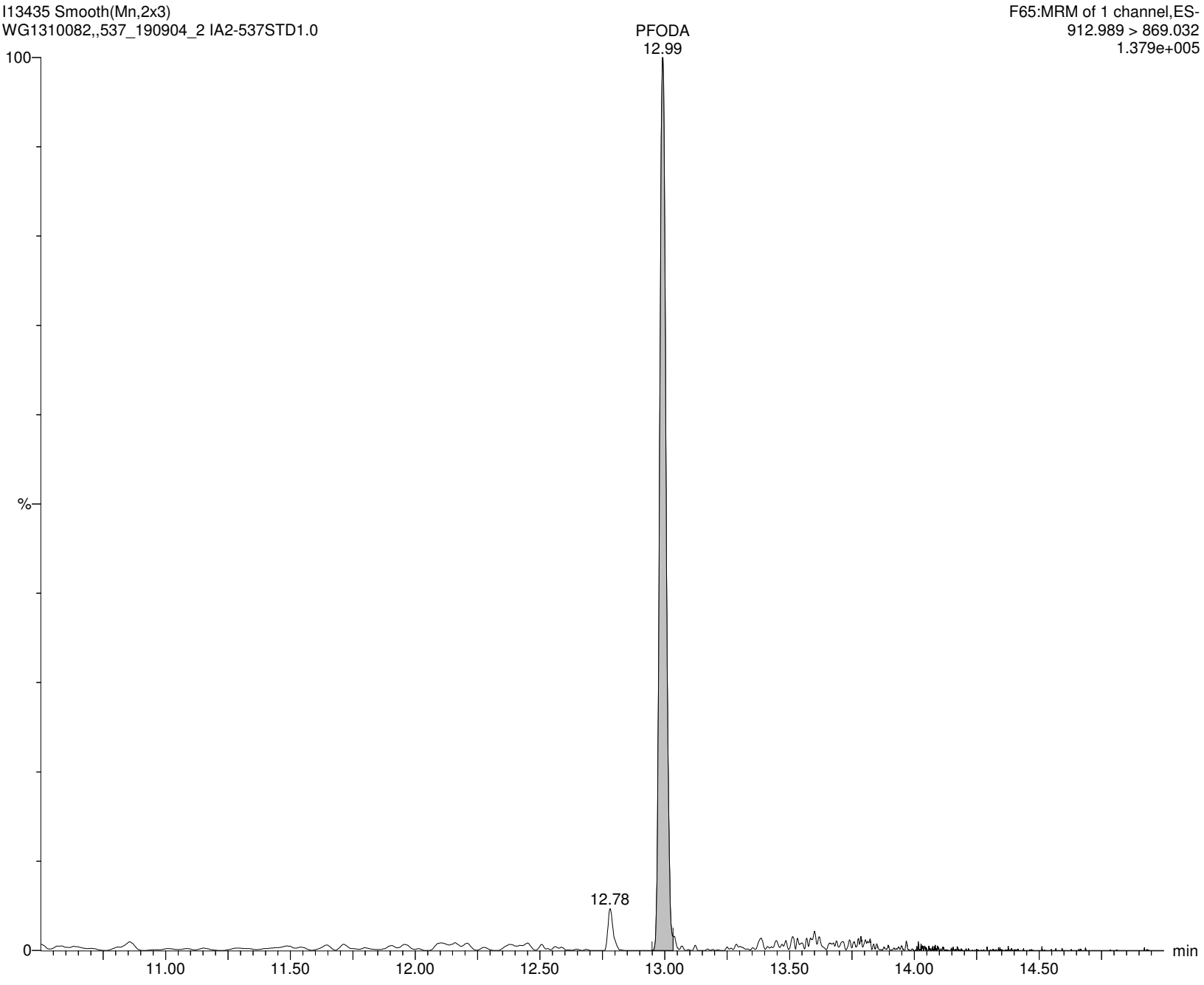

all concentration units in (ng/mL)

Alpha Analytical Inc.
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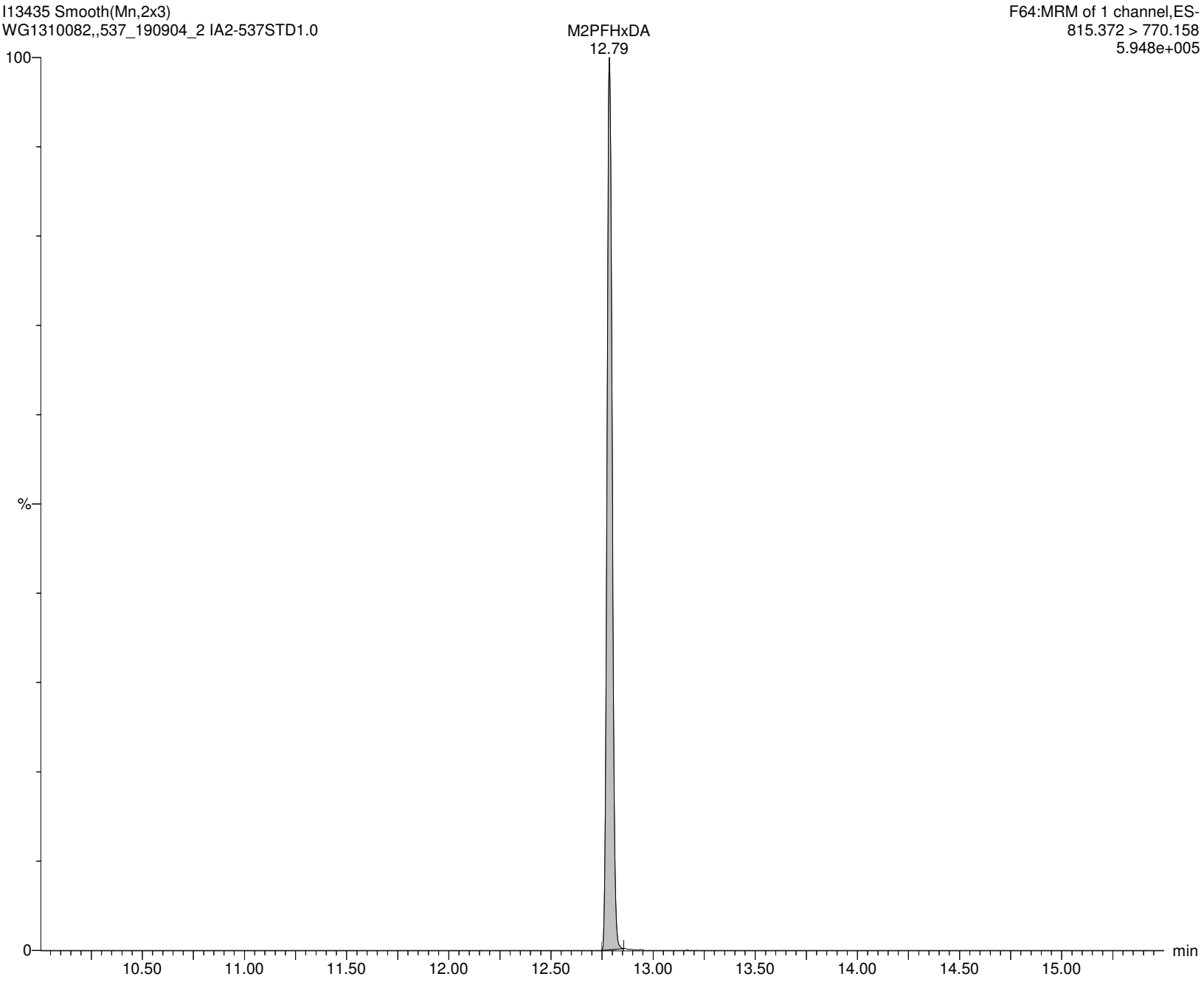

all concentration units in (ng/mL)

Alpha Analytical Inc.
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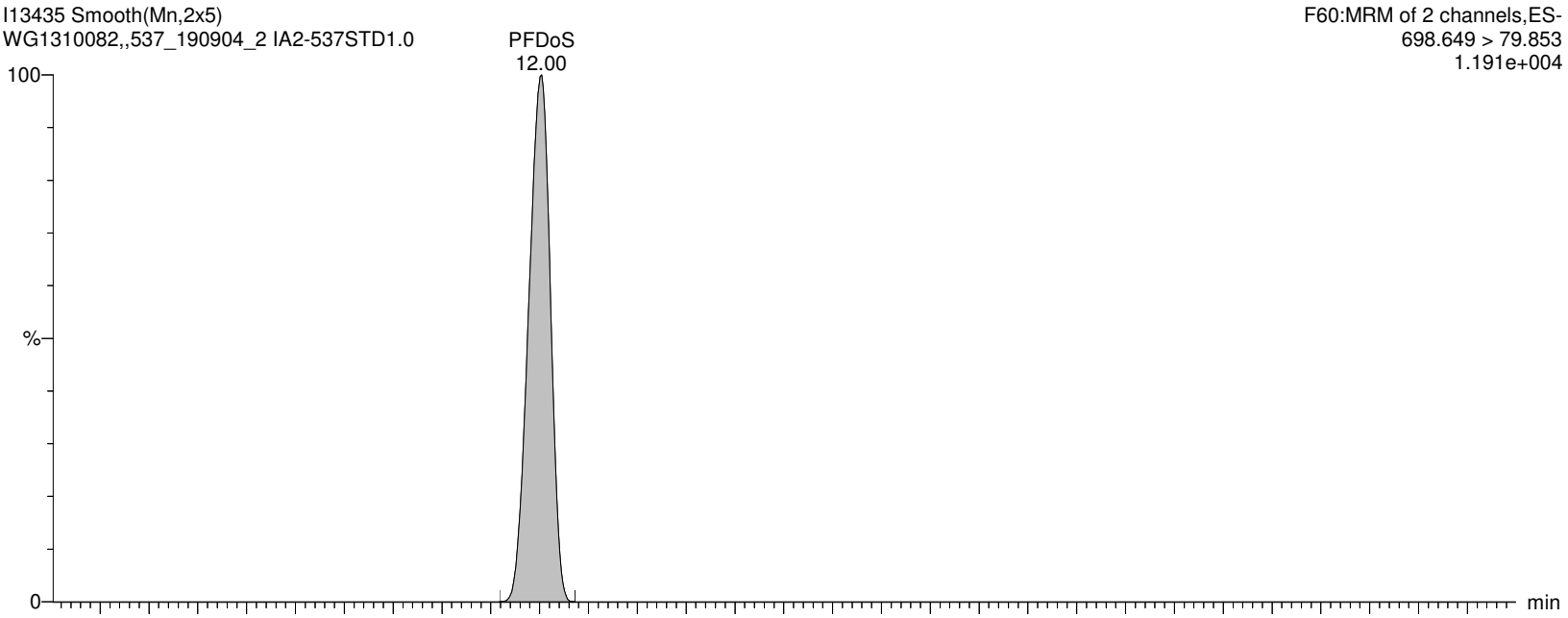

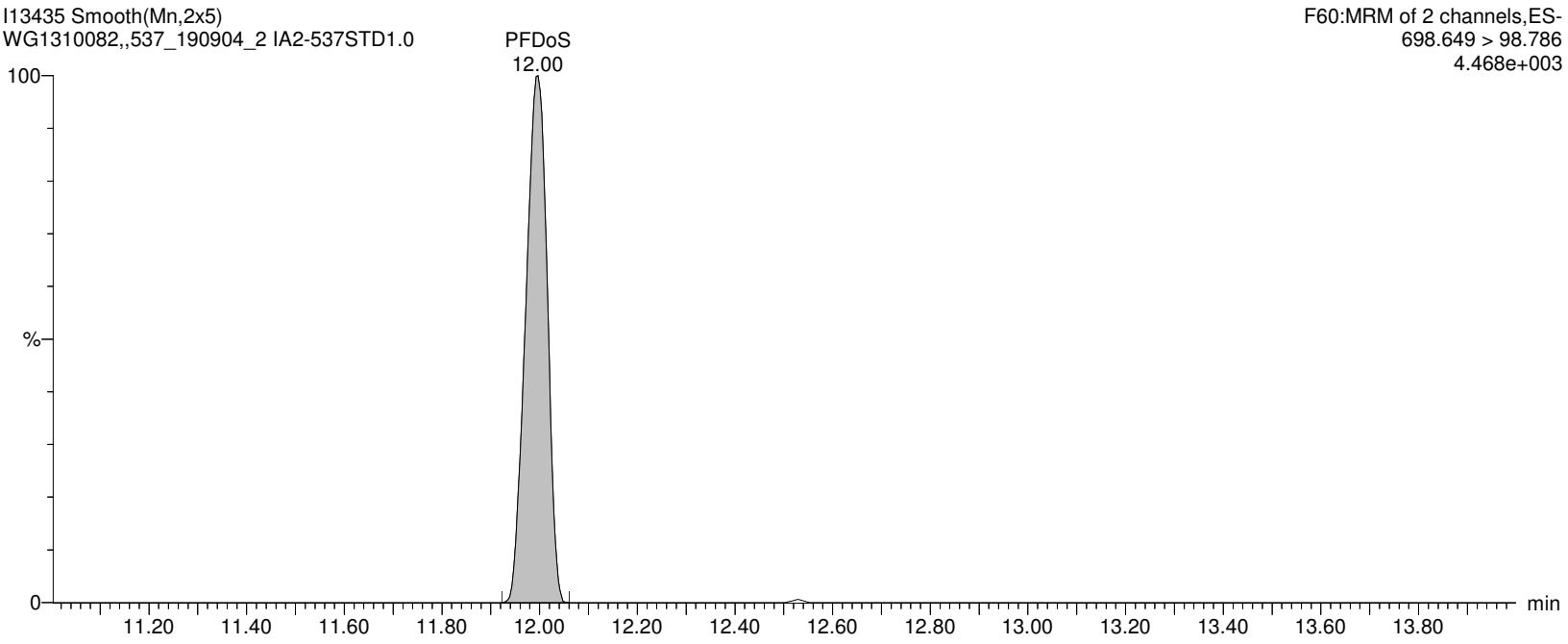

all concentration units in (ng/mL)

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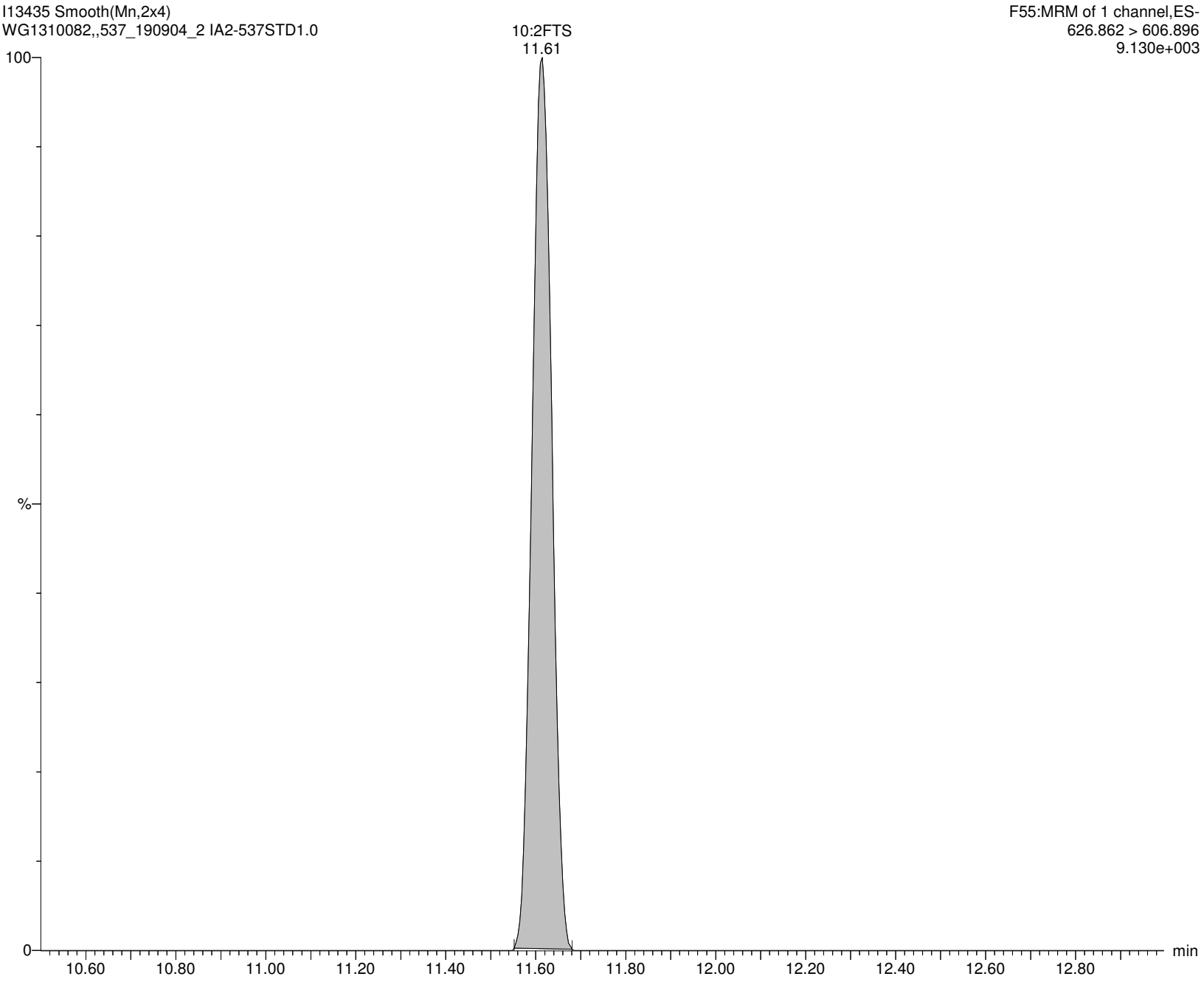

all concentration units in (ng/mL)

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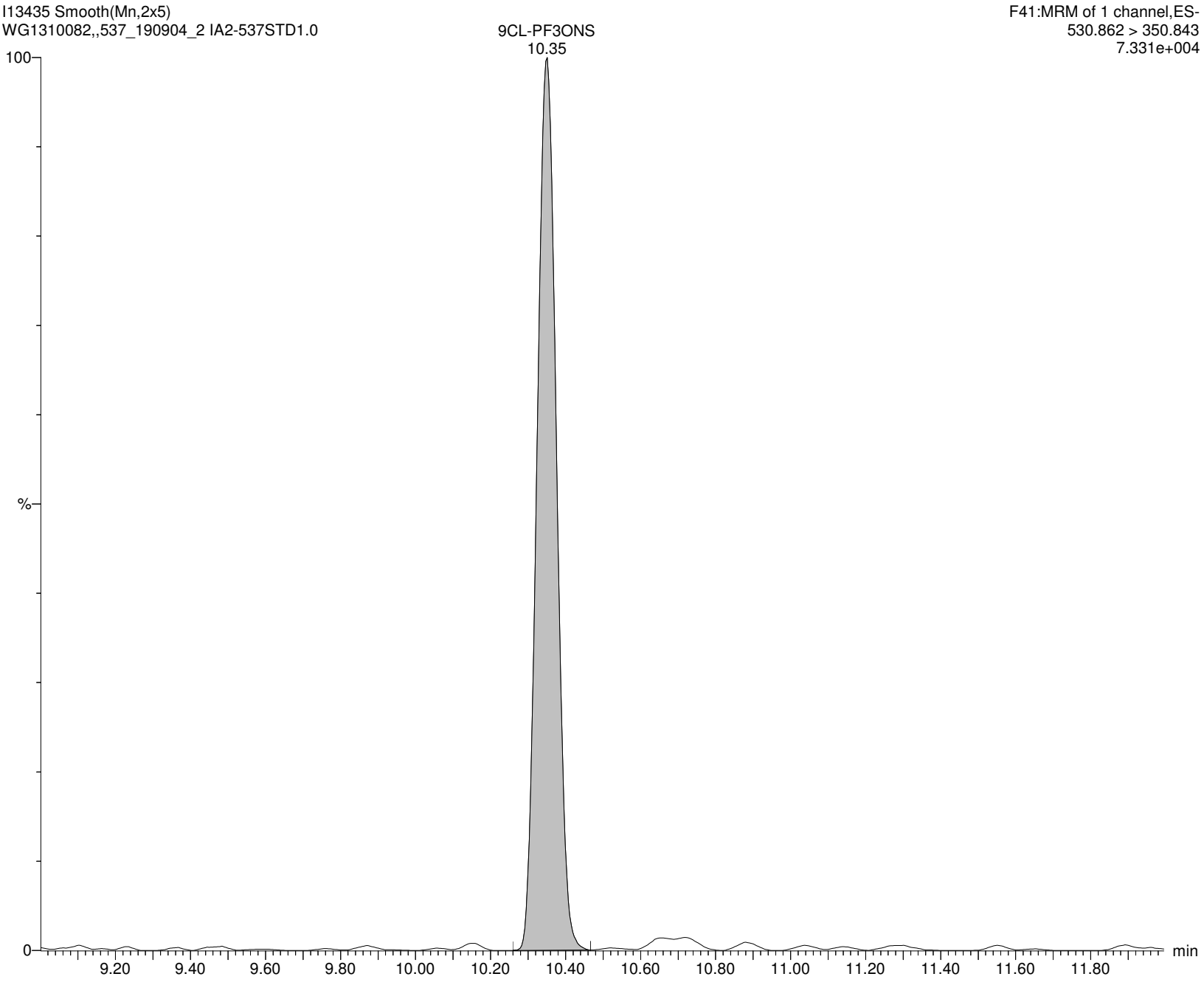

all concentration units in (ng/mL)

Alpha Analytical Inc.
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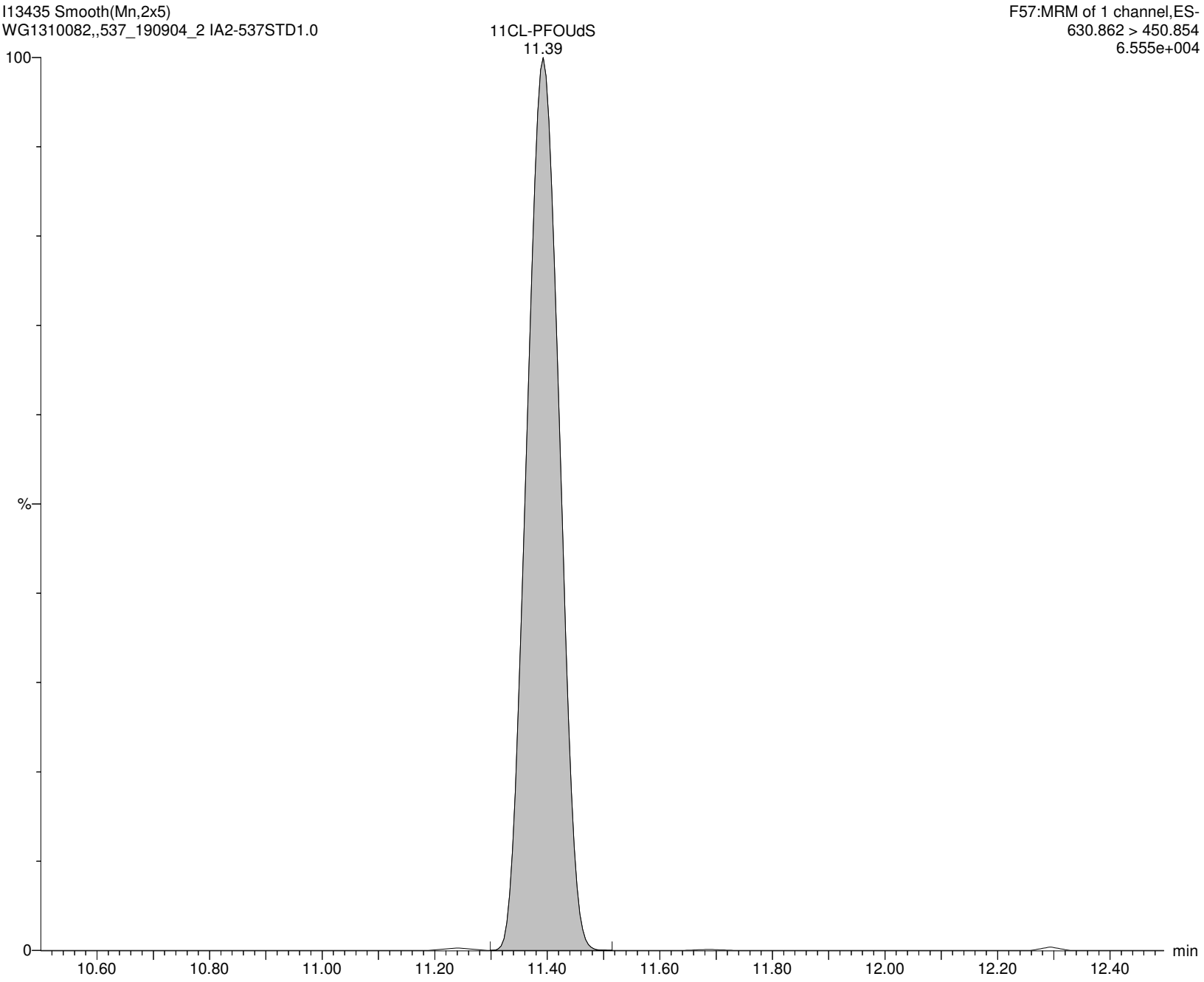

all concentration units in (ng/mL)

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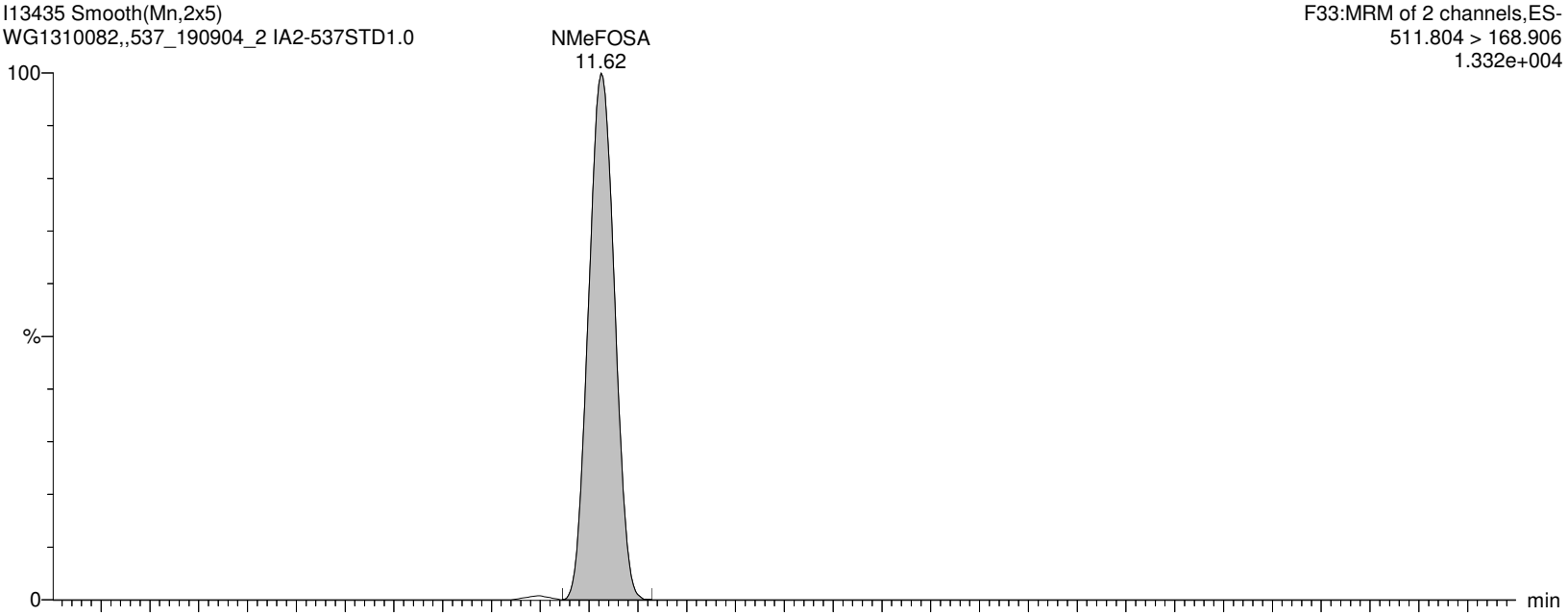

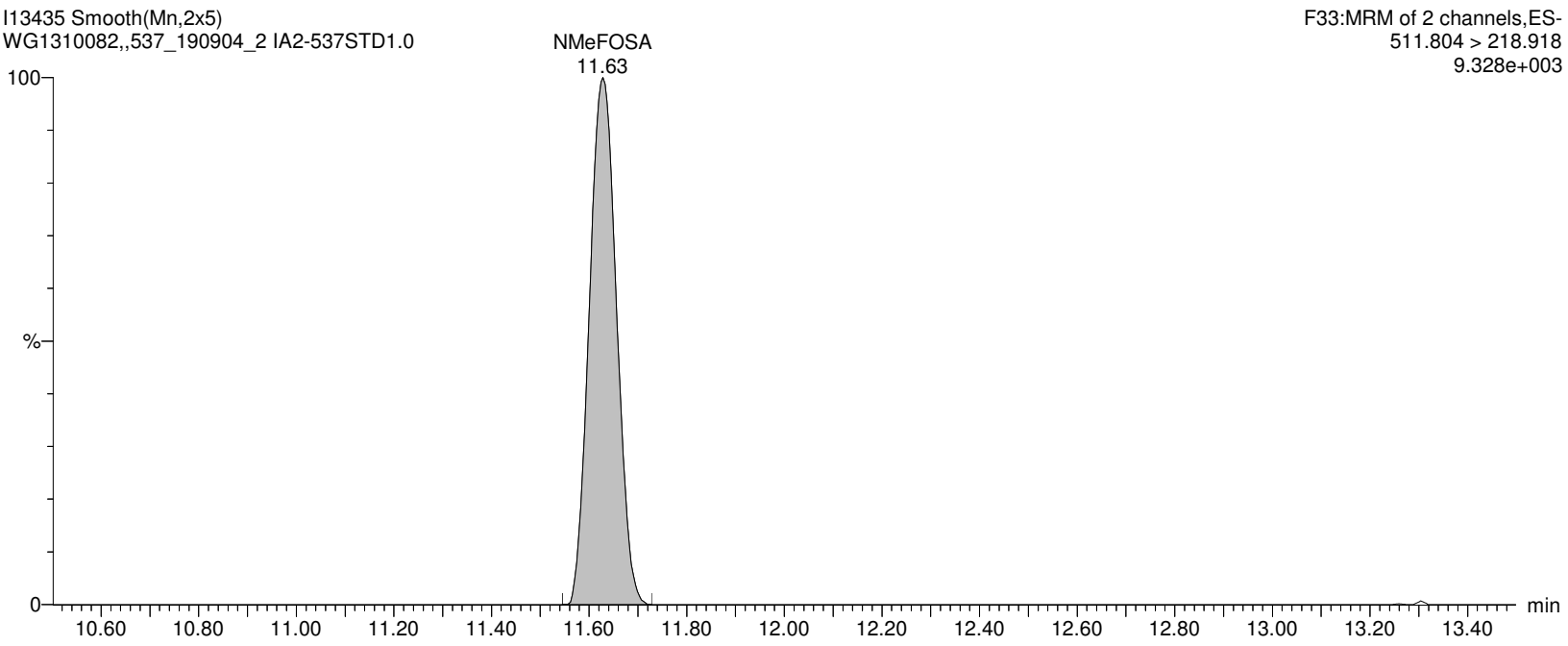

all concentration units in (ng/mL)

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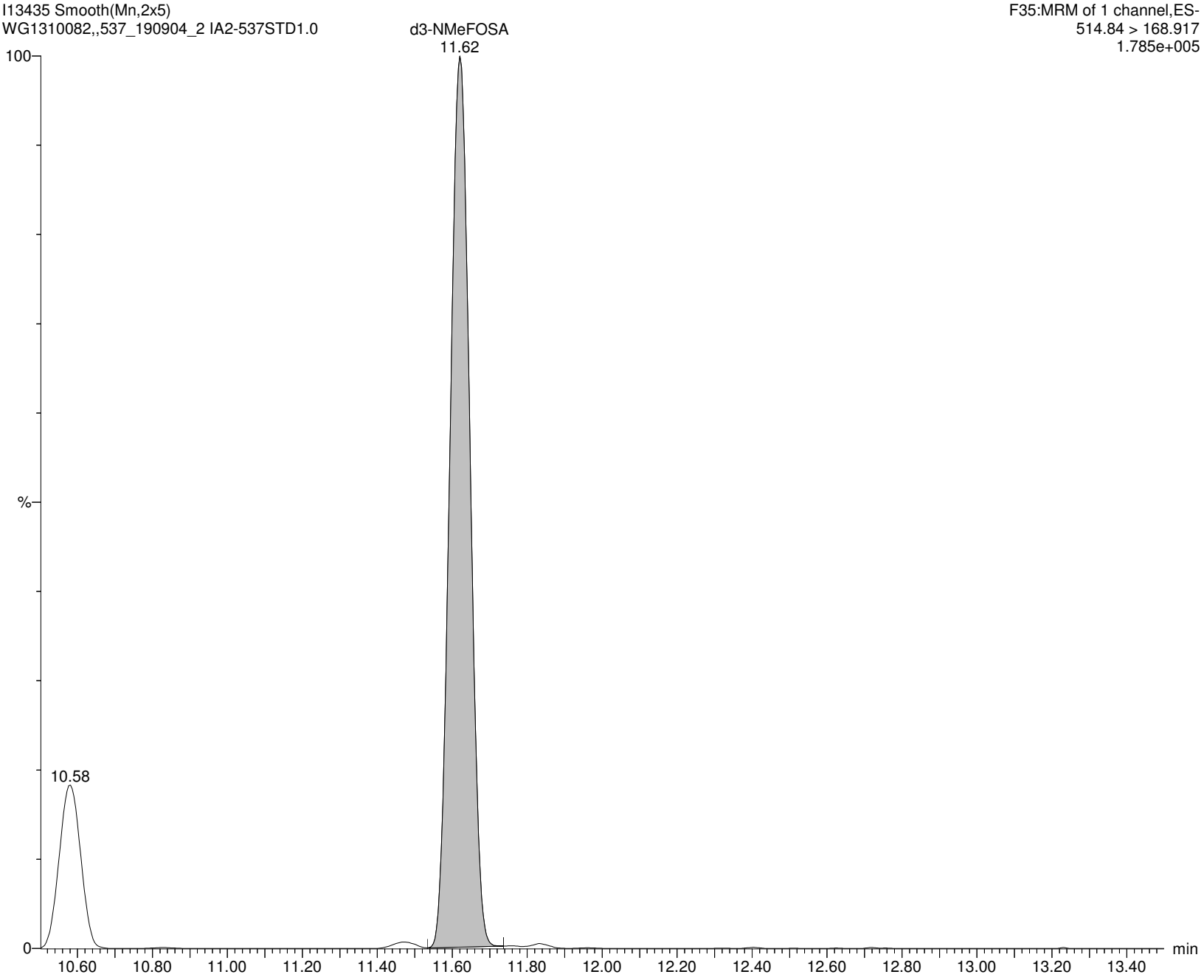

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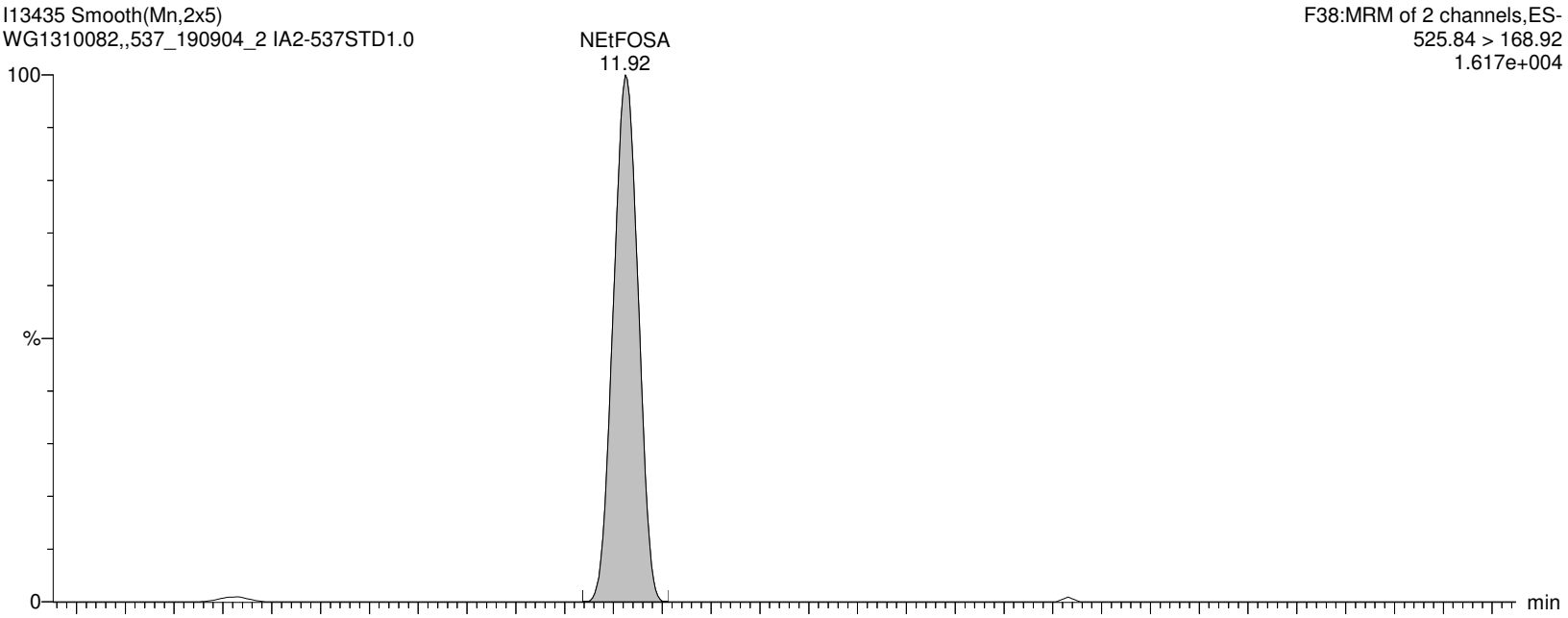
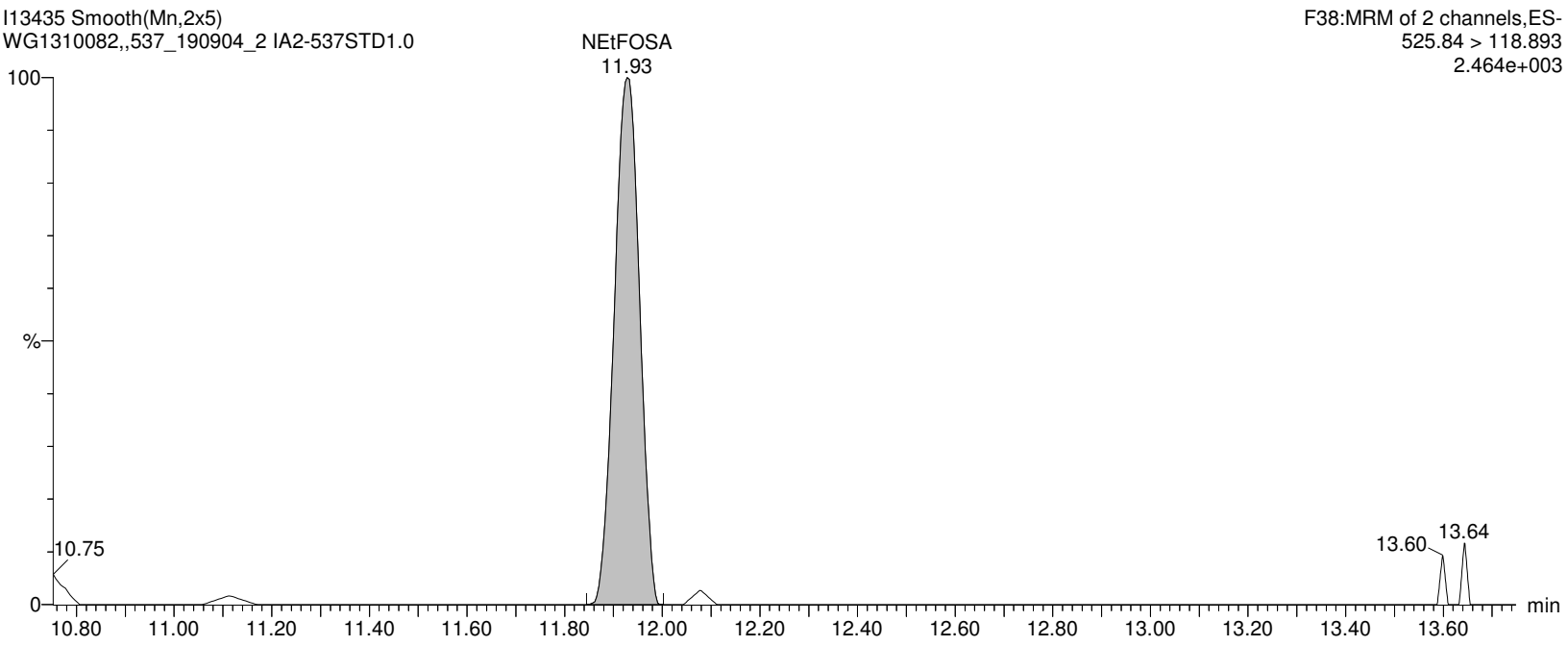
NEtFOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:51 Eastern Standard Time

Name: I13435
ID: IA2-537STD1.0
Date: 18-Nov-2019
Time: 10:53:49
Description: WG1310082,,537_190904_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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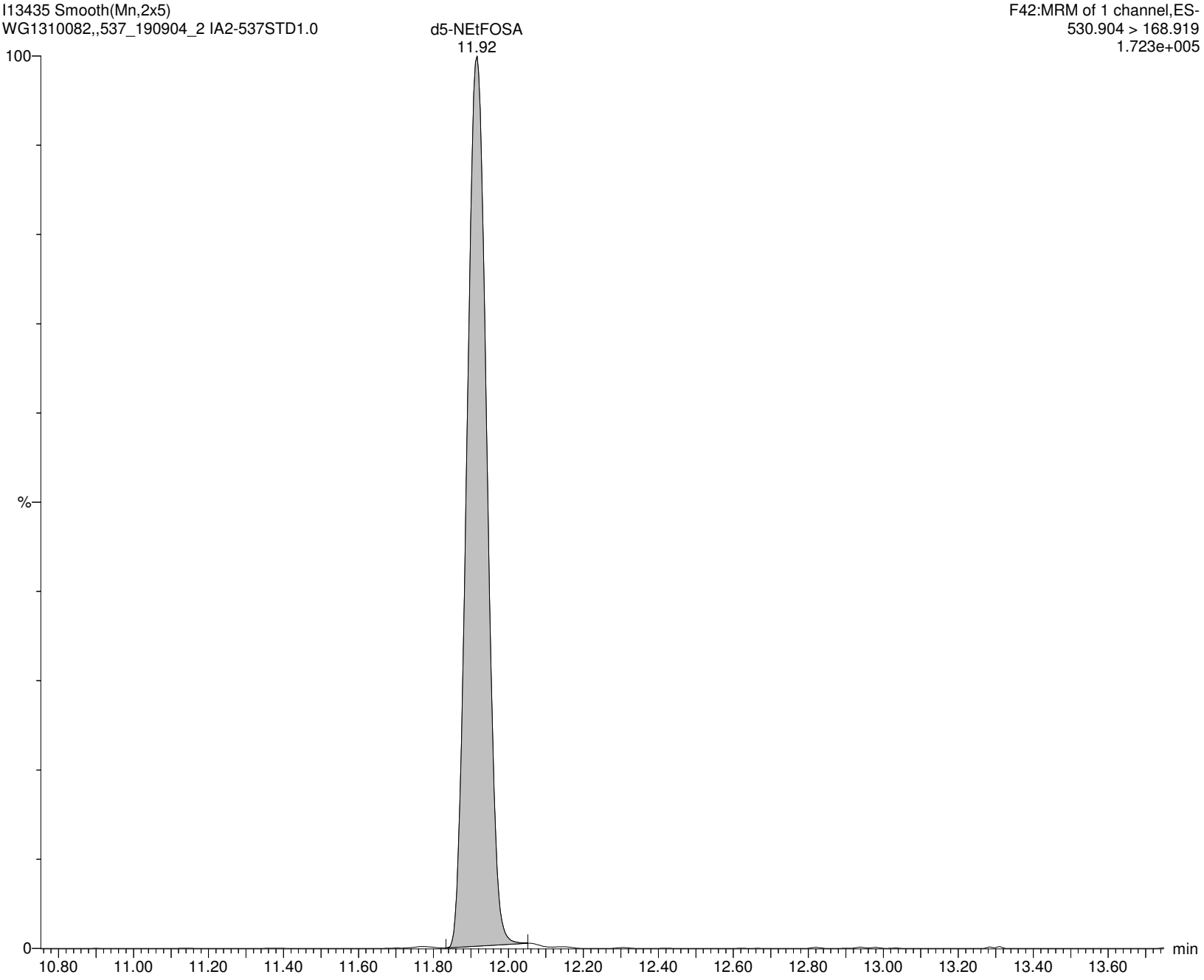

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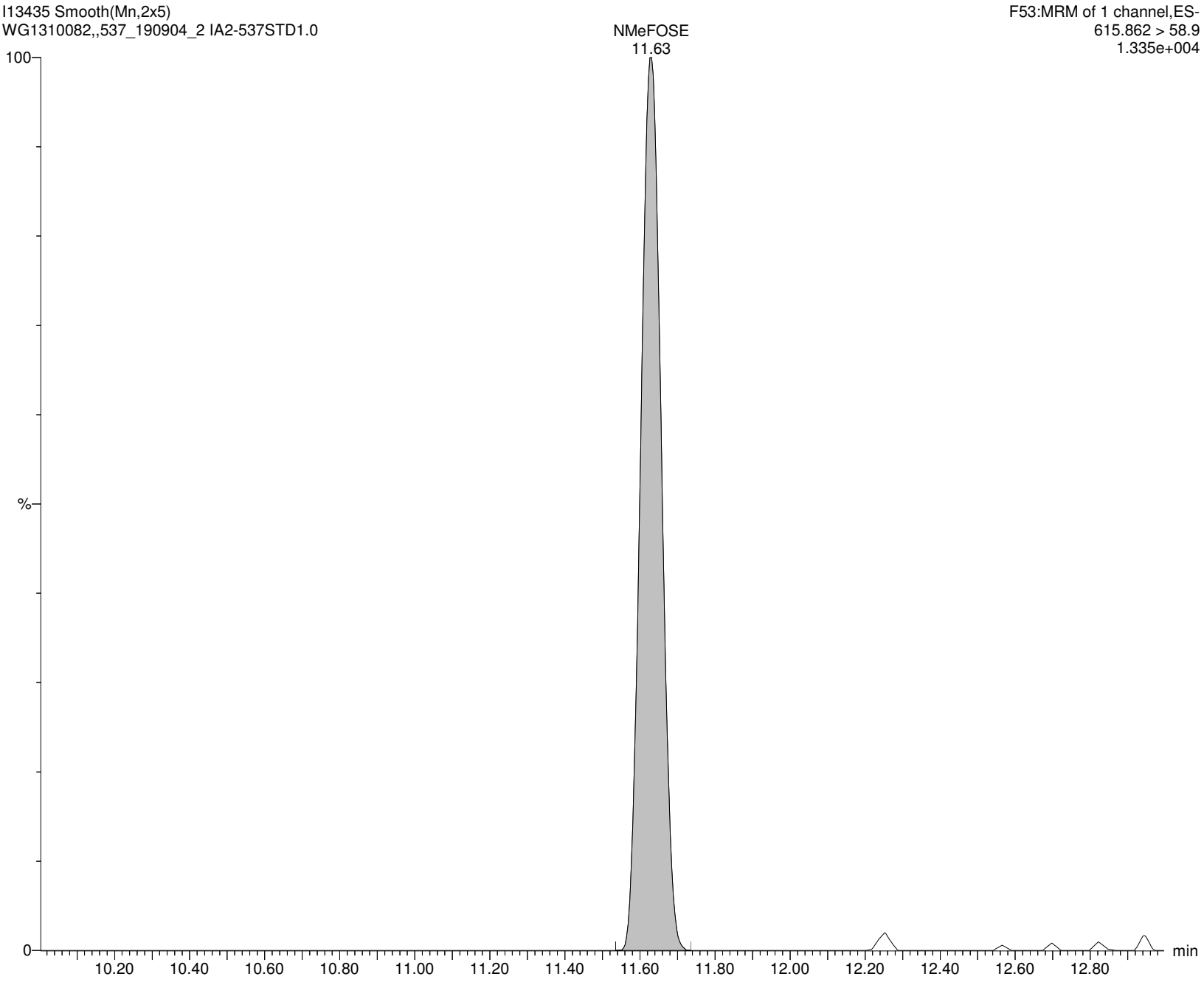

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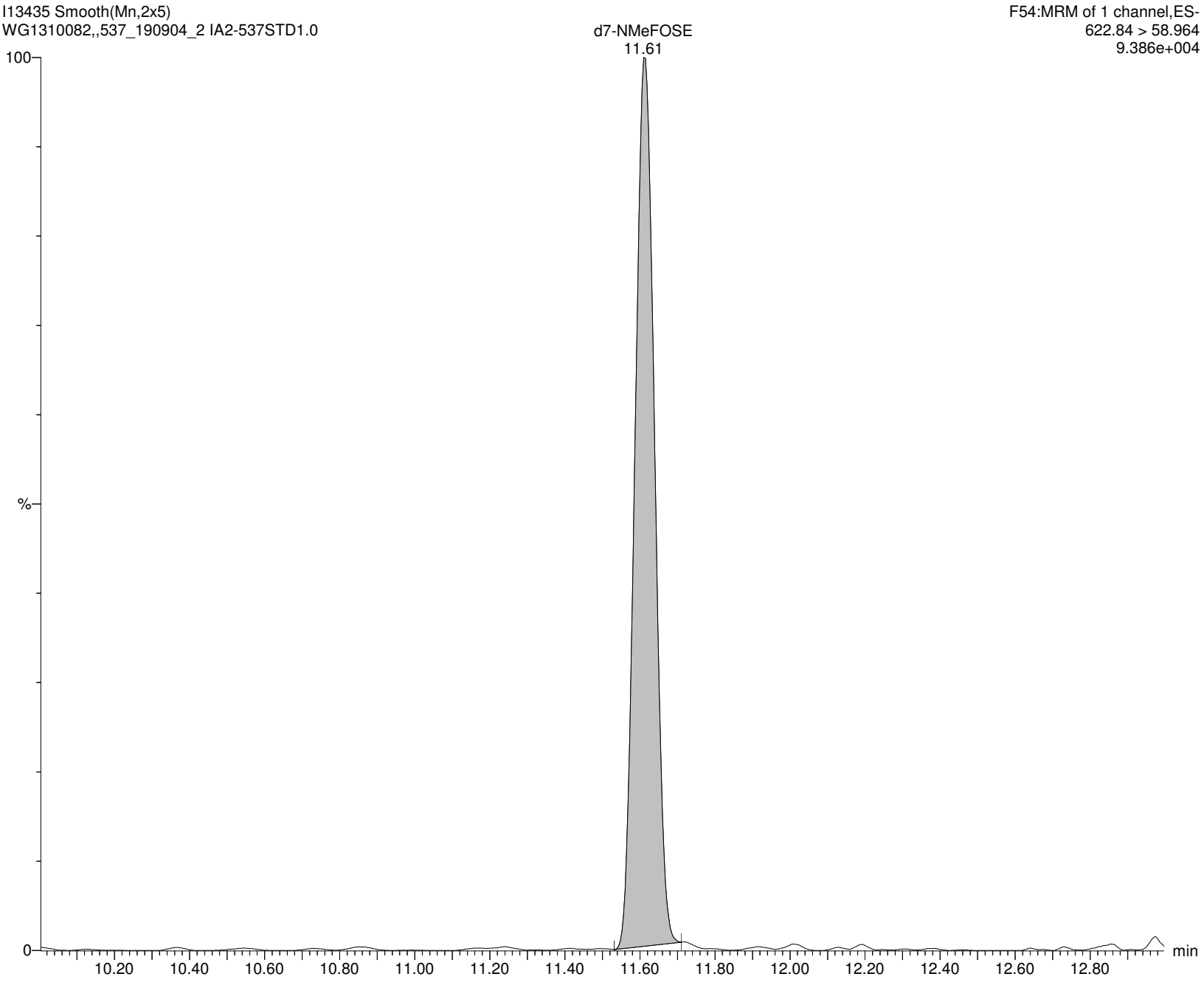

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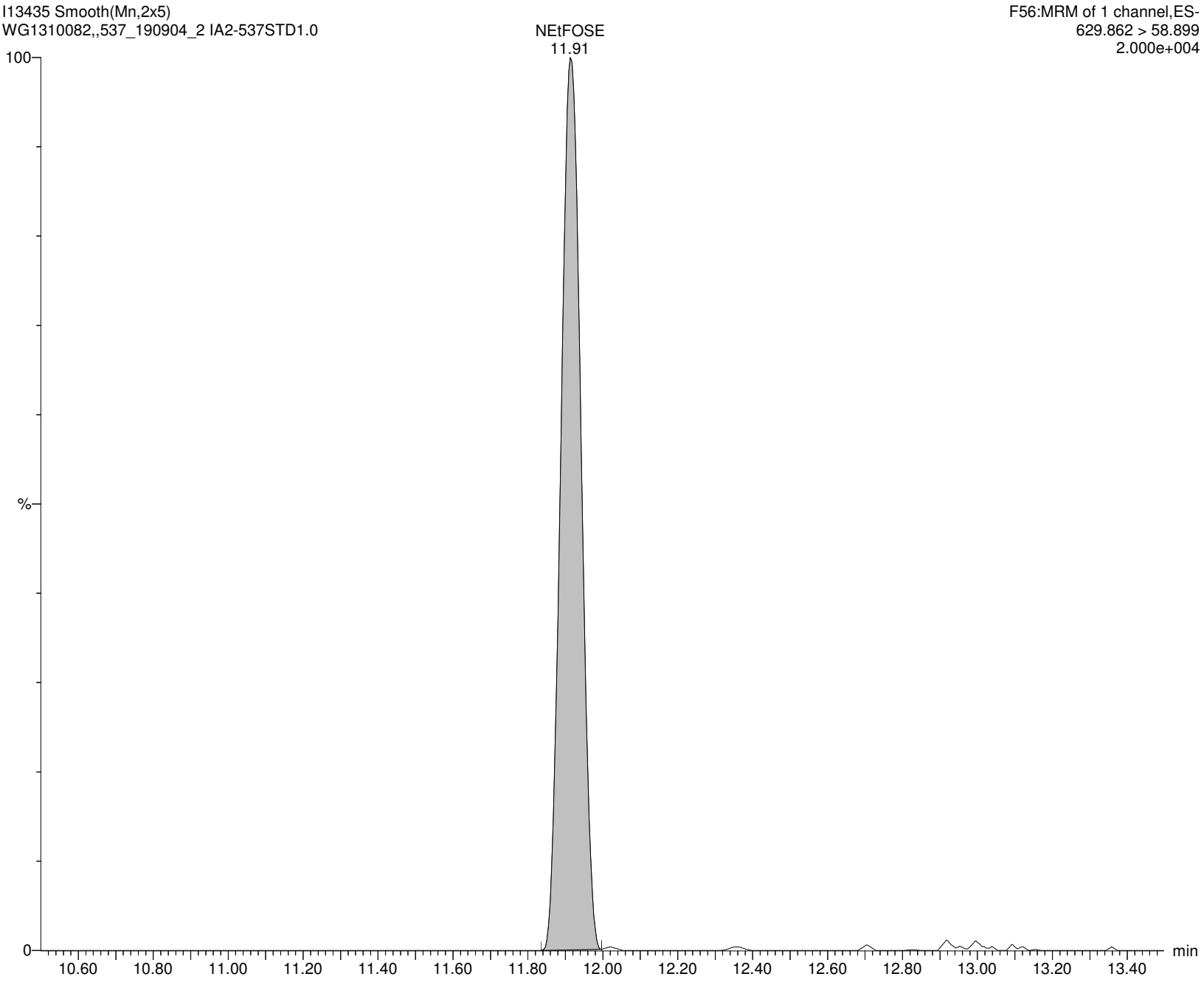

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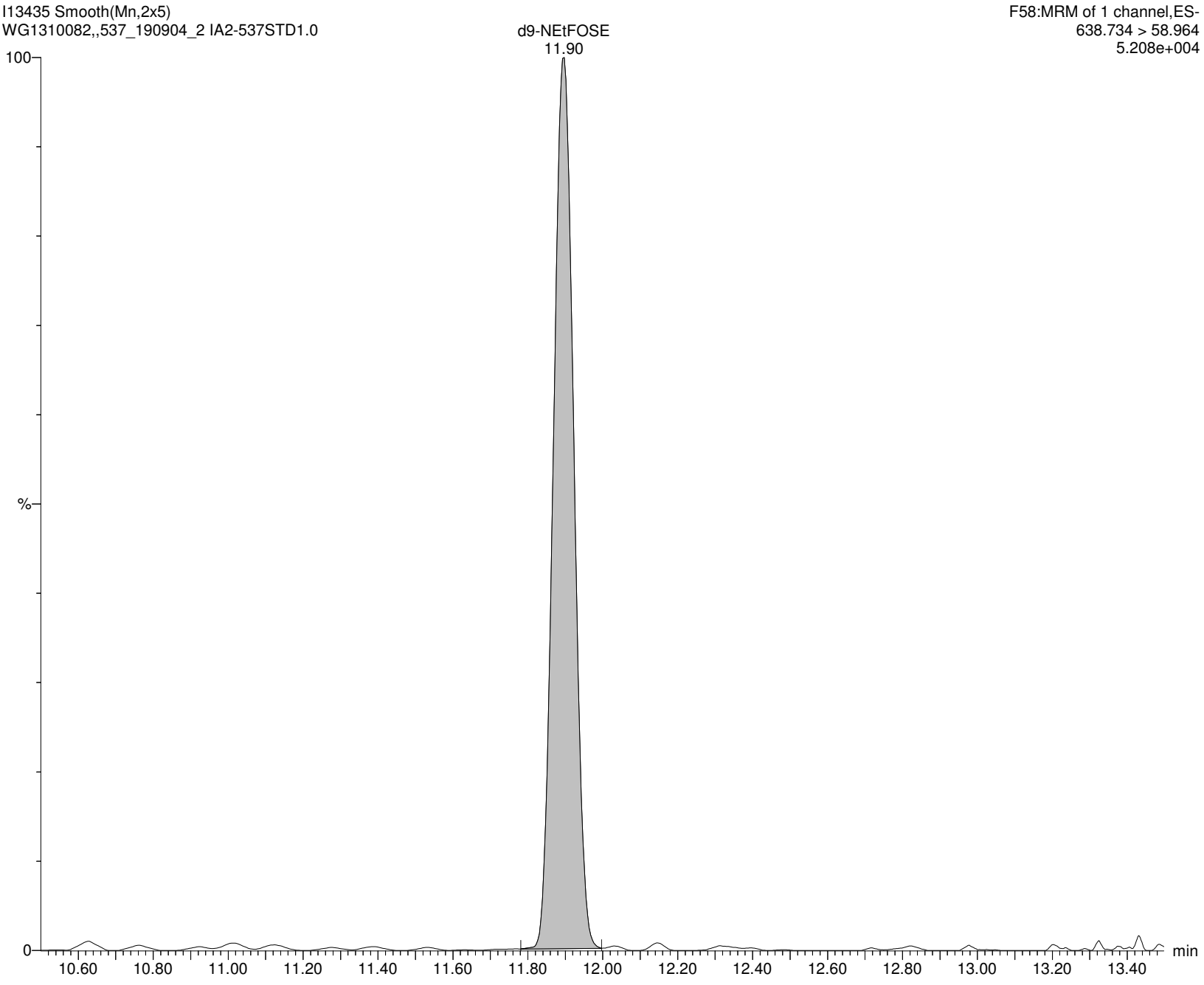

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Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD5.0
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Time: 11:10:20
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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	24282		5.570		na	111.4
2	M3PFBA	INT STD	2.20	215.926 > 172.122	48104		10.382		na	103.8
3	MPFBA	INT STD	2.19	216.926 > 172.137	52211		9.974		na	99.7
4	PFPeA	2706-90-3	5.10	262.926 > 219.002	40900		5.604		na	112.1
5	M5PFPEA	INT STD	5.10	267.989 > 223.081	75572		10.178		na	101.8
6	PFBS	375-73-5	5.75	298.926 > 79.923	7652		4.956	1.92	NO	112.0
7	M3PFBS	INT STD	5.75	301.989 > 80.254	10510		9.079		na	90.8
8	4:2FTS	757124-72-4	6.92	326.926 > 306.957	3446		5.526	2.25	NO	118.2
9	M2-4:2FTS	INT STD	6.92	329.117 > 309.079	5712		7.601		na	76.0
10	PFHxA	307-24-4	7.00	312.989 > 269.028	45762		5.710	18.75	NO	114.2
11	M5PFHxA	INT STD	7.00	317.989 > 273.045	87051		10.008		na	100.1
12	PFPeS	2706-91-4	7.31	348.926 > 80.251	5127		4.740	1.65	NO	100.9
13	PFHpA	375-85-9	8.26	362.926 > 319.014	60758		5.723	5.90	NO	114.5
14	M4PFHpA	INT STD	8.26	366.926 > 321.979	117692		10.158		na	101.6
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	519	M5	0.678	1.91	NO	79.8
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	3163		3.904	1.19	NO	105.5
17	PFHxS	355-46-4		398.926 > 80.295	3681		4.582		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	6467		9.679		na	96.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	58198		5.631	9.47	NO	112.6
21	PFOA	335-67-1		412.989 > 368.9	58198		5.631		na	
22	M8PFOA	INT STD	9.19	420.989 > 375.979	112562		10.124		na	101.2
23	M2PFOA	INT STD	9.19	415.032 > 369.968	113627		10.749		na	107.5
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	2365		5.188	14.79	NO	109.2
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	5687		7.743		na	77.4
26	PFHpS	375-92-8	9.28	448.926 > 80.257	2921		5.646	0.85	YES	118.9
27	PFNA	375-95-1	9.94	462.989 > 418.931	52308		5.690	4.48	NO	113.8
28	M9PFNA	INT STD	9.94	472.053 > 426.947	112216		10.258		na	102.6
29	br-PFOS	1763-23-1	9.80	498.989 > 80.294	1019	M5	0.992	5.67	NO	99.2
30	L-PFOS	1763-23-1	9.99	498.989 > 80.294	3141		4.074	1.45	NO	111.6
31	PFOS	1763-23-1		498.989 > 80.294	4160		5.066		na	
32	M4PFOS	INT STD	9.99	503.032 > 80.306	8270		11.841		na	118.4
33	M8PFOS	INT STD	9.99	507.053 > 80.294	7857		9.259		na	92.6
34	PFDA	335-76-2	10.57	513.053 > 468.906	49945		5.585	6.18	NO	111.7
35	M2PFDA	INT STD	10.57	515.053 > 469.934	99527		11.273		na	112.7
36	M6PFDA	INT STD	10.57	519.053 > 473.931	104240		10.134		na	101.3
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	2399		6.103		na	127.1
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	3681		8.544		na	85.4
39	PFNS	68259-12-1	10.60	548.989 > 80.249	4373		5.984	1.33	NO	124.7

all concentration units in (ng/mL)

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ID: IA2-537STD5.0
Name: I13436
Date: 18-Nov-2019
Time: 11:10:20
Description: WG1310082,,537_190904_3
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.096 > 418.987	10156		8.669		na	86.7
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	5530		5.843	2.80	NO	116.9
43	NMeFOSAA	2355-31-9		570.053 > 418.917	5530		5.843		na	
44	PFUnA	2058-94-8	11.12	562.989 > 518.903	51117		5.455	8.16	NO	109.1
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	97998		10.739		na	107.4
46	PFDS	335-77-3	11.13	598.926 > 80.314	3124		5.981	0.92	NO	124.0
47	FOSA	754-91-6	11.01	497.989 > 78.245	12992		5.461	154.86	NO	109.2
48	M8FOSA	INT STD	11.01	506.053 > 78.286	22388		9.206		na	92.1
49	d5-NEtFOSAA	INT STD	11.24	589.117 > 418.929	9137		8.829		na	88.3
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	5154		5.975	2.39	NO	119.5
52	NEtFOSAA	2991-50-6		583.989 > 418.927	5154		5.975		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	48924		5.589	14.64	NO	111.8
54	MPFDOA	INT STD	11.59	614.989 > 569.92	103349		10.095		na	101.0
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	40716		5.800	10.72	NO	116.0
56	PFTA	376-06-7	12.36	713.053 > 668.976	35875		5.657	9.51	NO	113.1
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	79195		9.739		na	97.4
58	M3HFPO-DA	INT STD	7.42	331.989 > 286.995	3738		76.726		na	38.4
59	HFPO-DA	13252-13-6	7.42	284.819 > 169.094	3729		120.149	3.16	YES	120.1
60	ADONA	958445-44-8	8.43	376.926 > 251.005	76970		5.201		na	109.9
61	PFHxDA		12.78	813.053 > 769.005	31167		5.116		na	102.3
62	PFODA		12.99	912.989 > 869.032	20393		4.568		na	91.4
63	M2PFHxDA		12.78	815.372 > 770.158	16613		9.598		na	96.0
64	PFDoS		11.99	698.649 > 79.853	2929		5.501	1.77	YES	110.0
65	10:2FTS		11.60	626.862 > 606.896	2107		5.561		na	115.4
66	9CL-PF3ONS		10.34	530.862 > 350.843	25232		4.887		na	104.9
67	11CL-PFOUdS		11.38	630.862 > 450.854	21642		4.972		na	105.6
68	NMeFOSA		11.62	511.804 > 168.906	4556		5.673	1.38	NO	113.5
69	d3-NMeFOSA		11.61	514.84 > 168.917	10805		8.519		na	85.2
70	NEtFOSA		11.92	525.84 > 168.92	4898		5.157	5.71	NO	103.1
71	d5-NEtFOSA		11.91	530.904 > 168.919	10840		8.738		na	87.4
72	NMeFOSE		11.62	615.862 > 58.9	5940		5.259		na	105.2
73	d7-NMeFOSE		11.61	622.84 > 58.964	5584		9.400		na	94.0
74	NEtFOSE		11.91	629.862 > 58.899	6476		4.988		na	99.8
75	d9-NEtFOSE		11.89	638.734 > 58.964	3289		9.469		na	94.7

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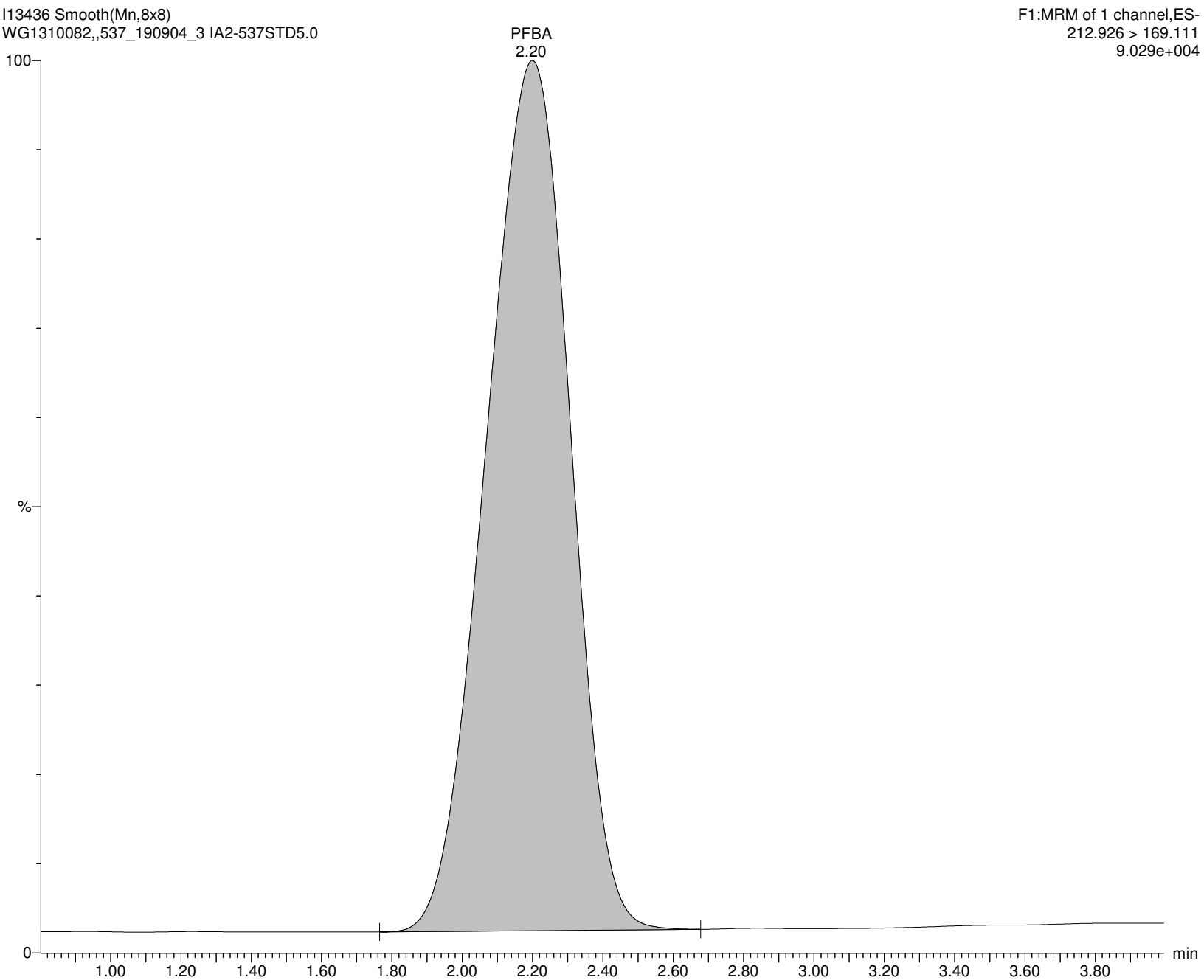

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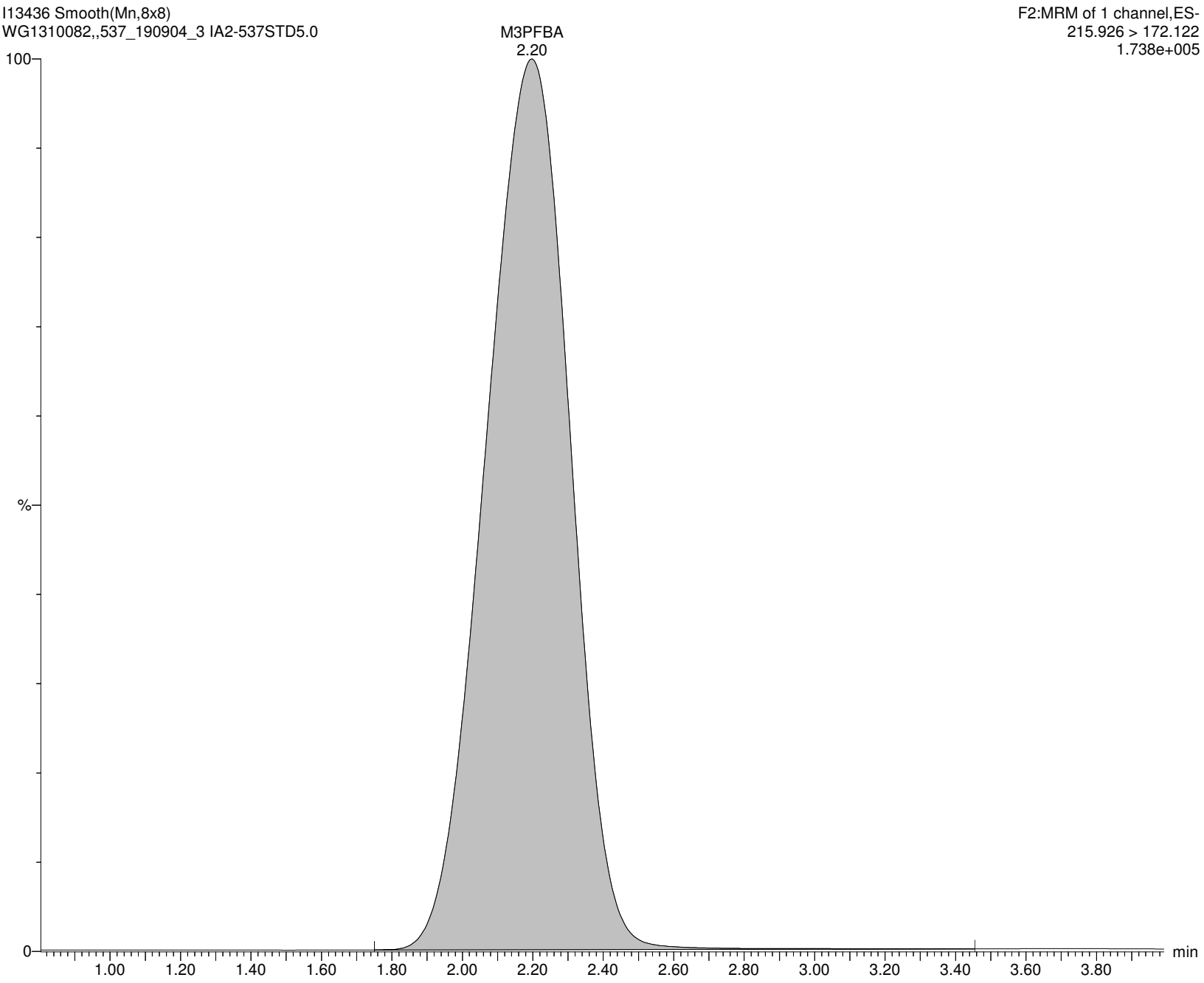
M3PFBA



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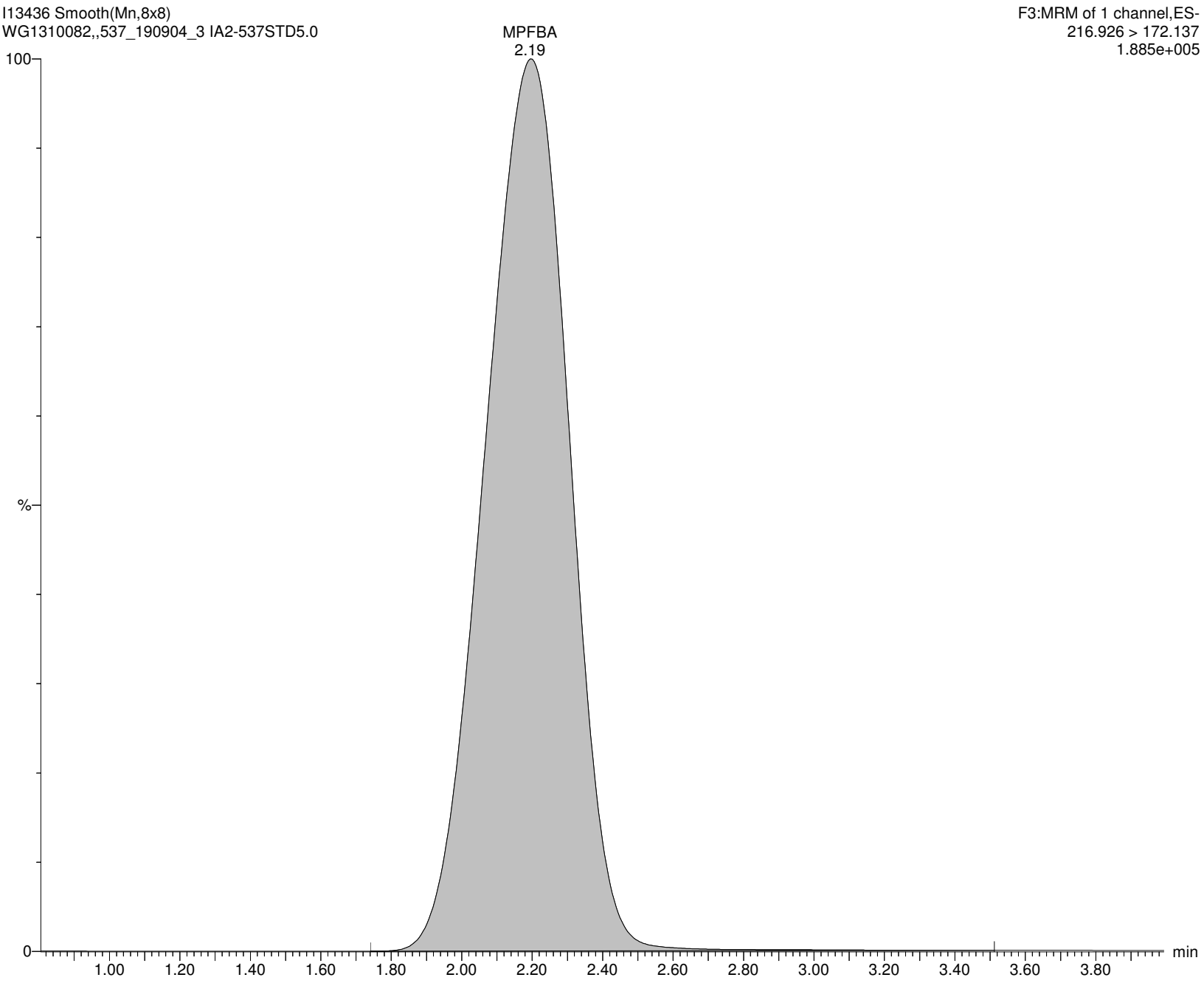
MPFBA



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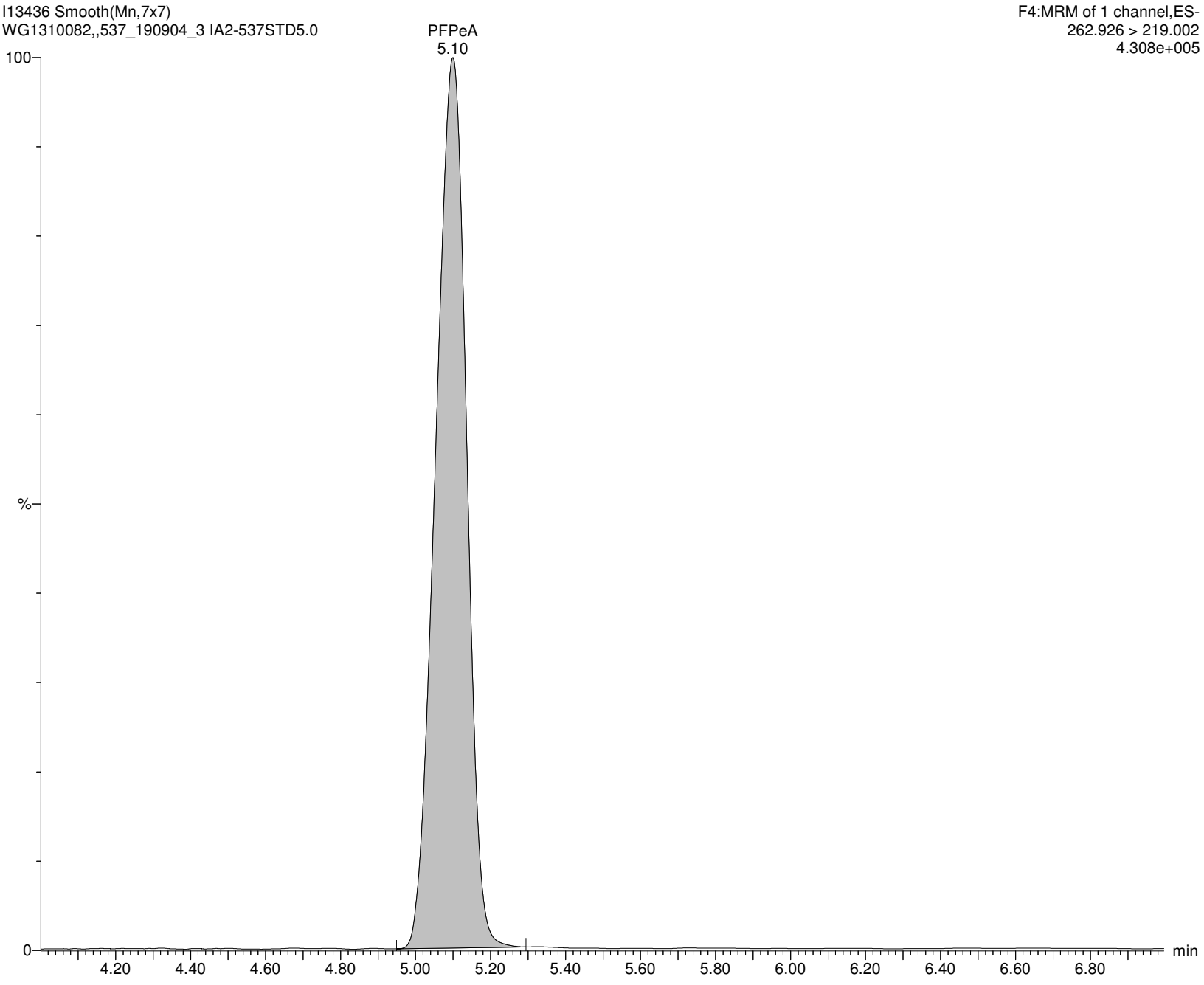
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:52 Eastern Standard Time

Name: I13436
ID: IA2-537STD5.0
Date: 18-Nov-2019
Time: 11:10:20
Description: WG1310082,,537_190904_3
User: LCMS02:JW
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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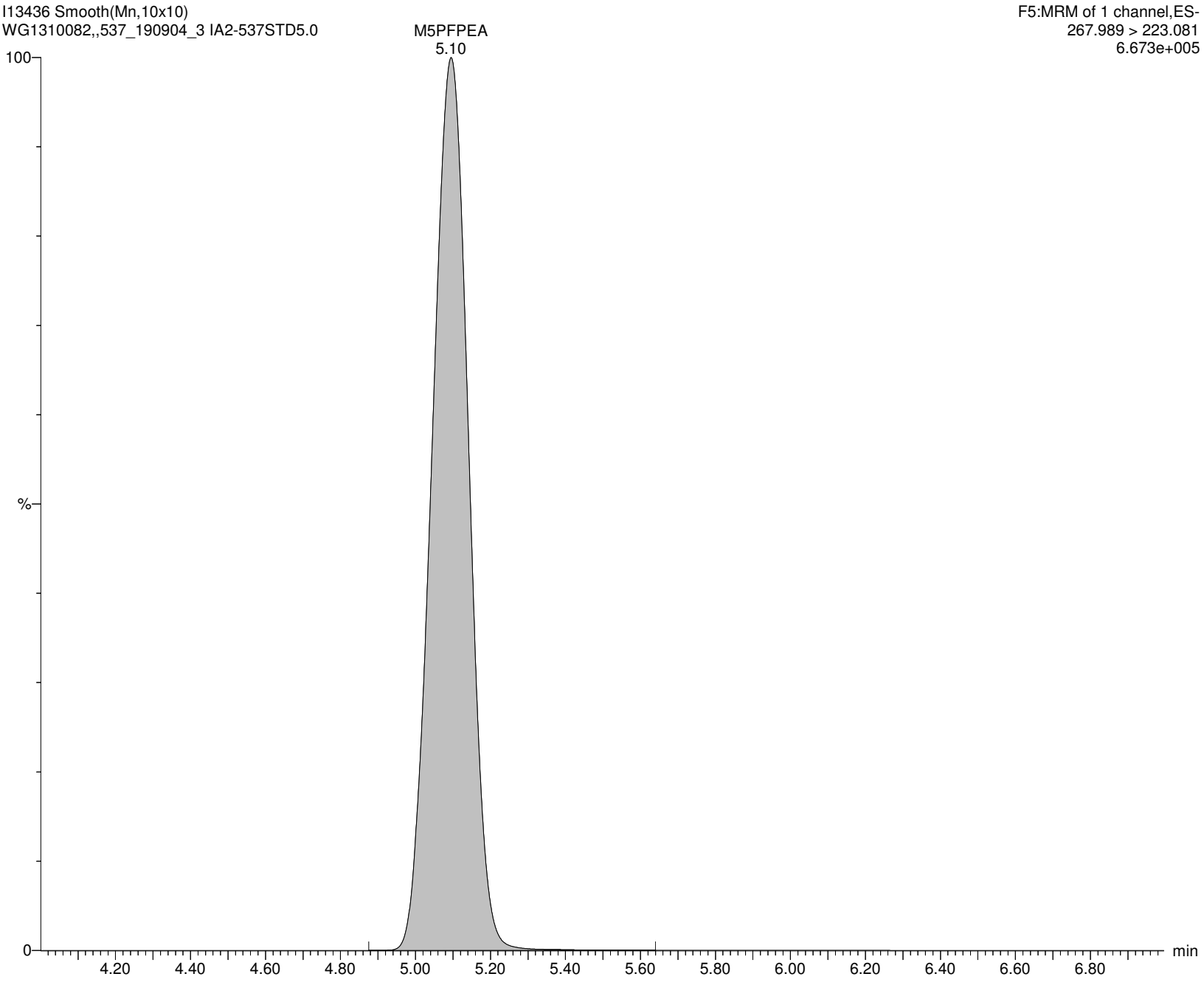

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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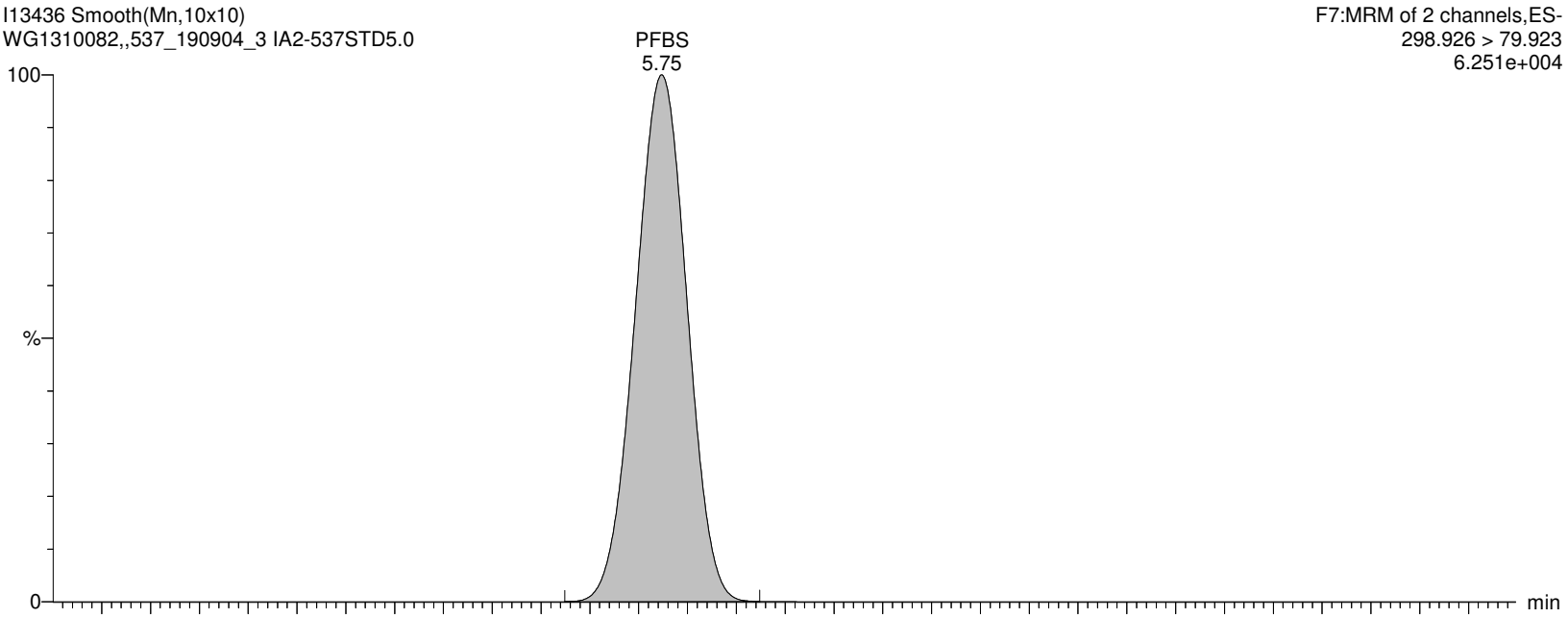
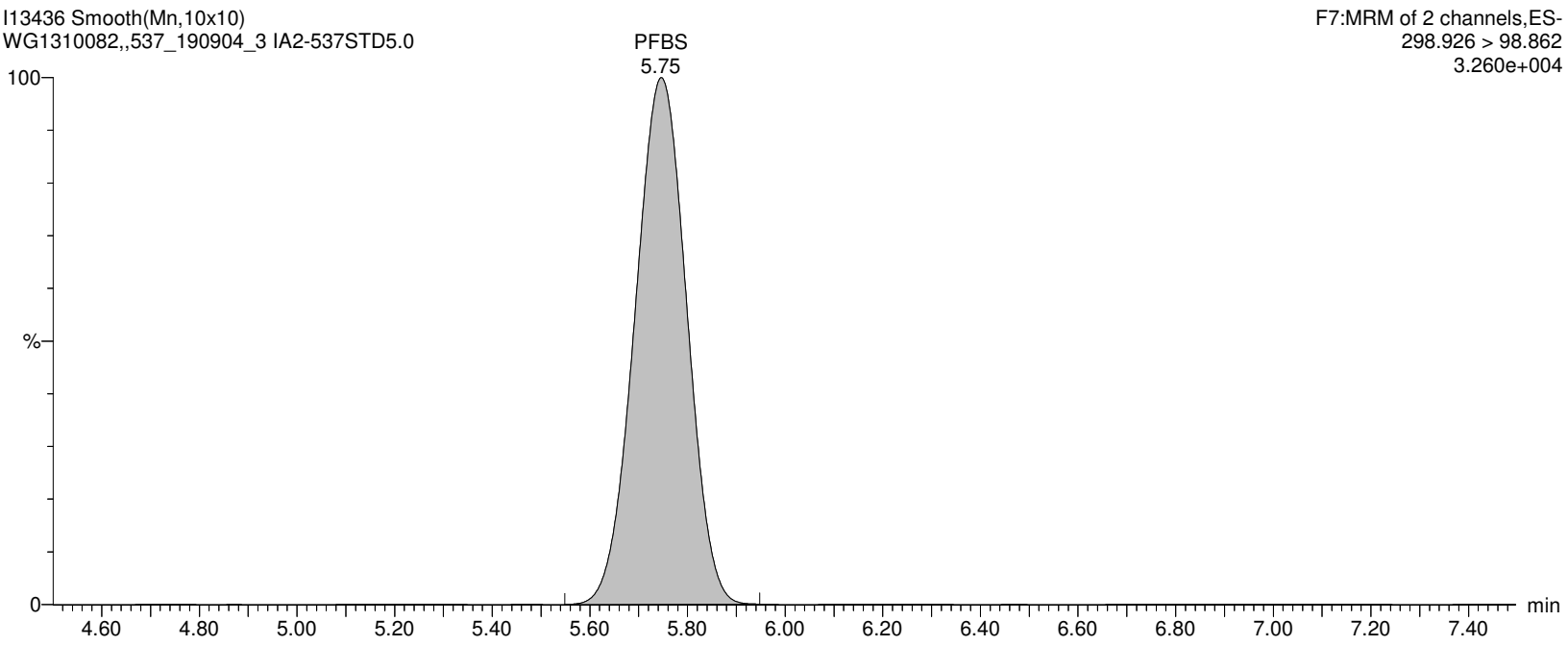
PFBS





all concentration units in (ng/mL)

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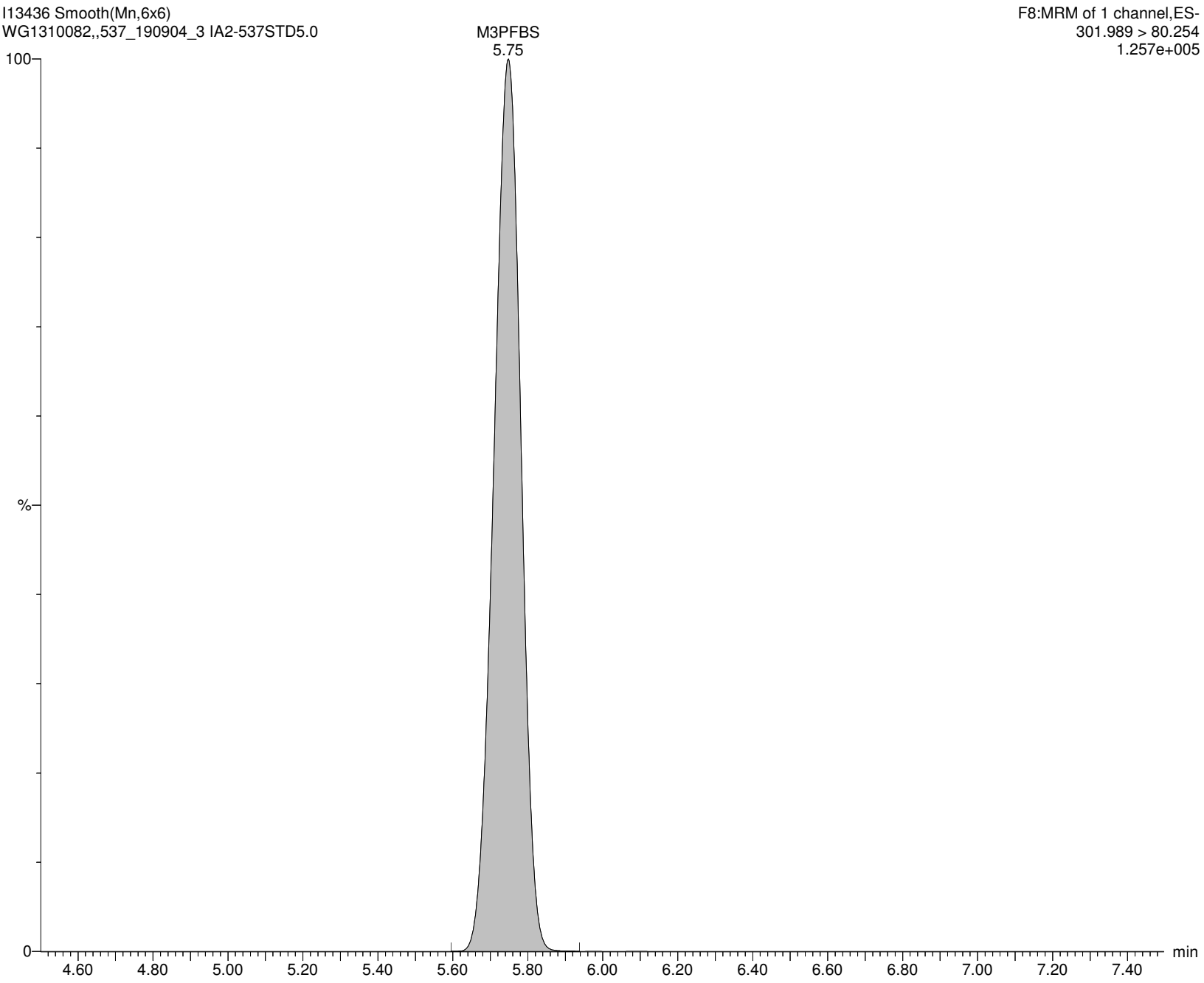

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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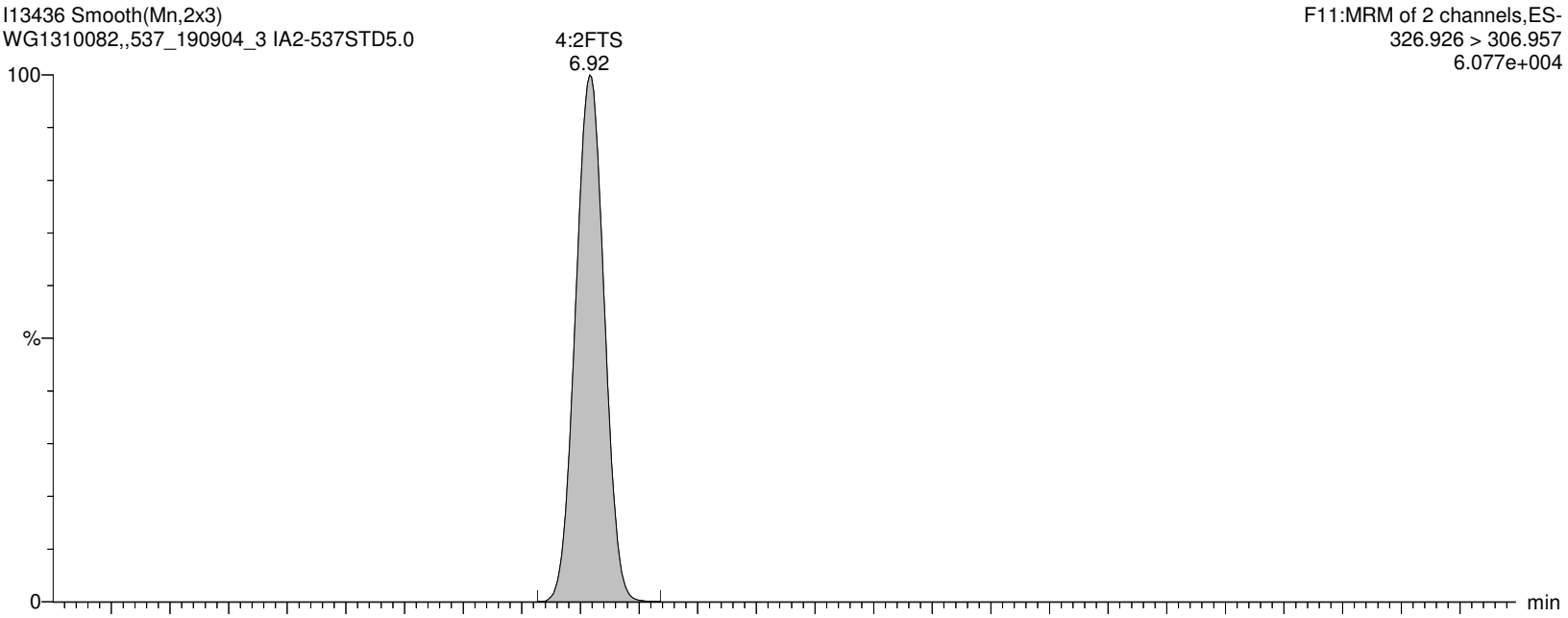
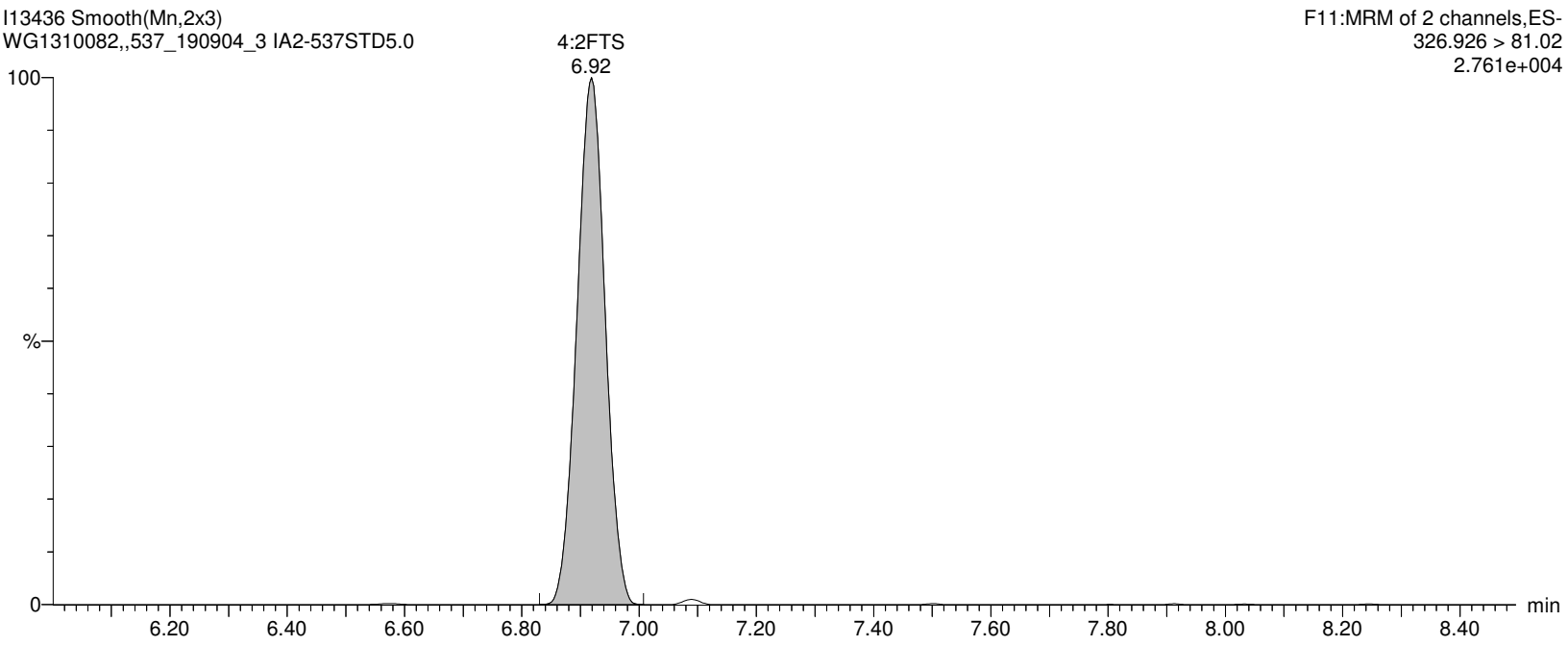
4:2FTS





all concentration units in (ng/mL)

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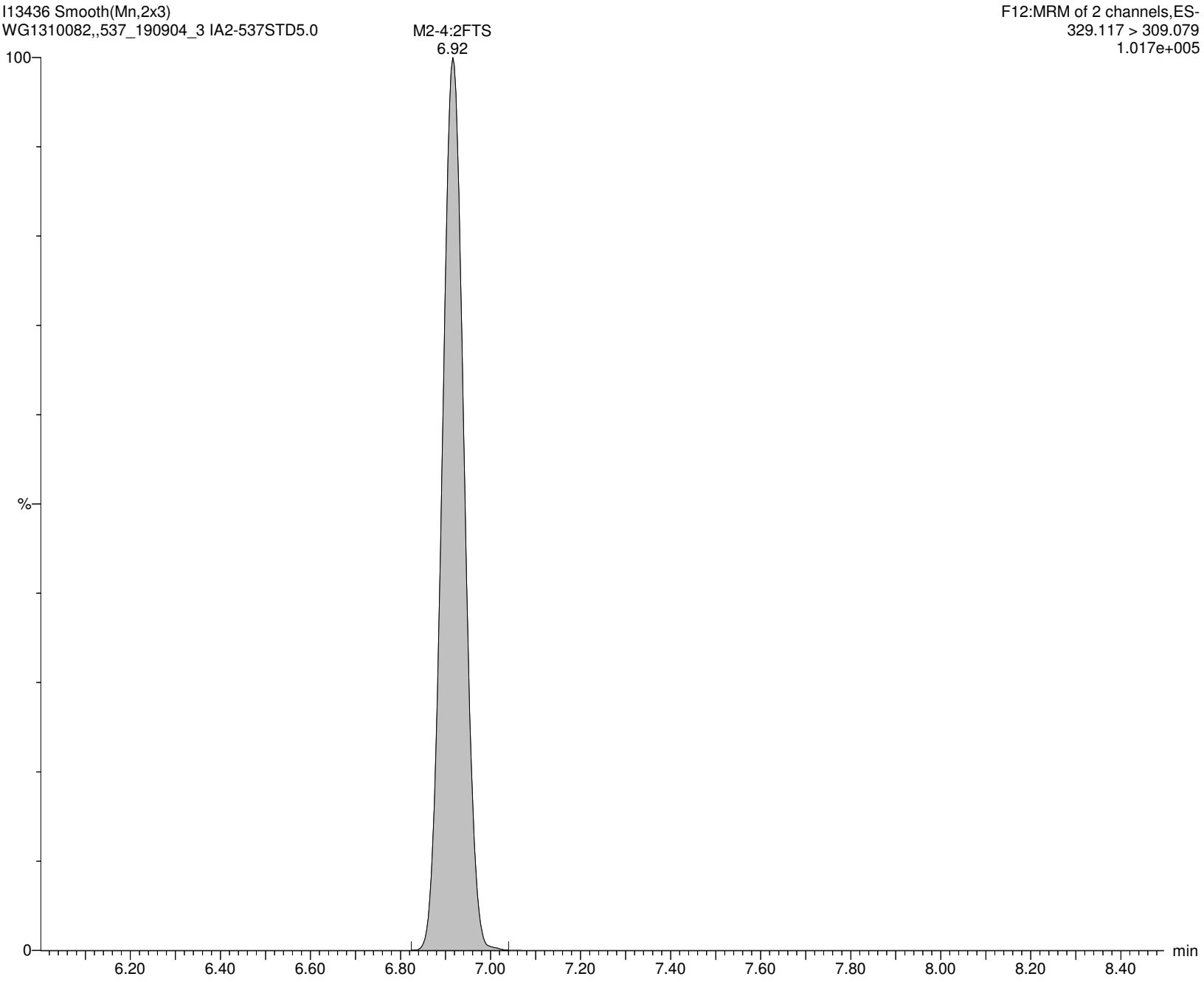
M2-4:2FTS



all concentration units in (ng/mL)

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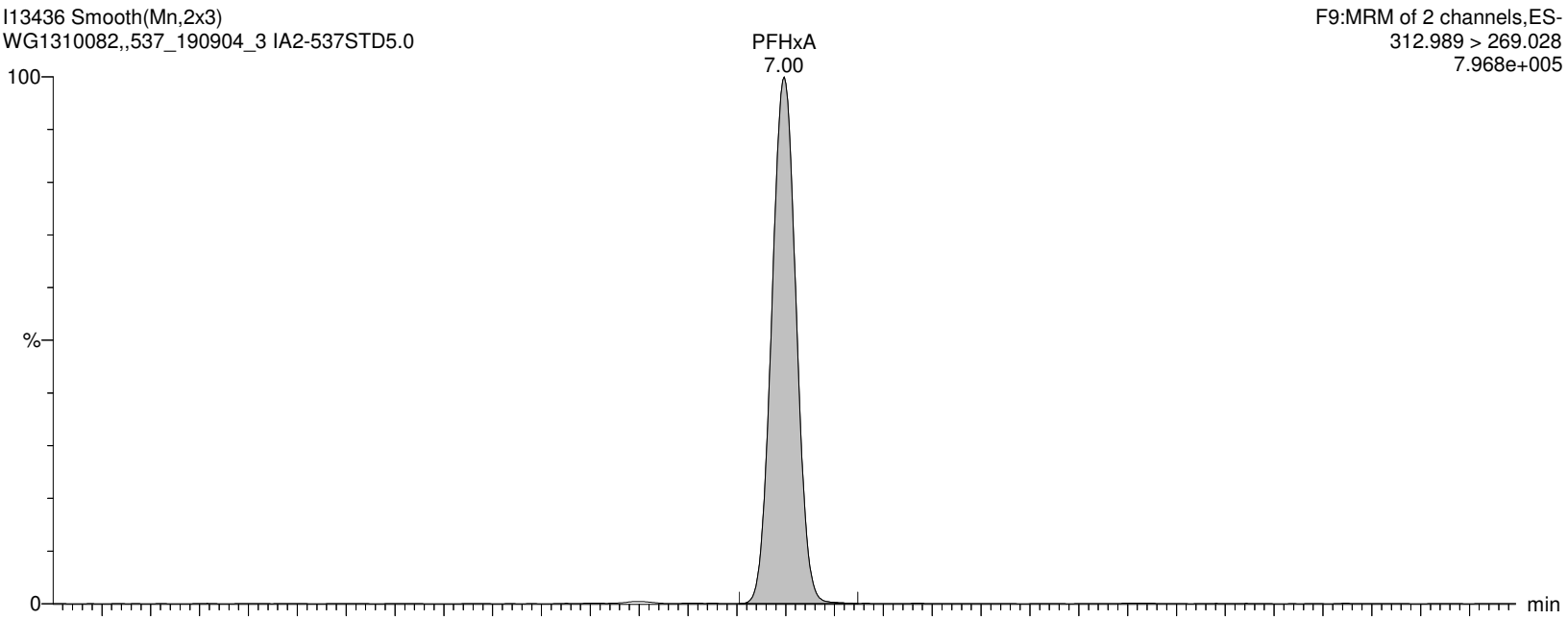

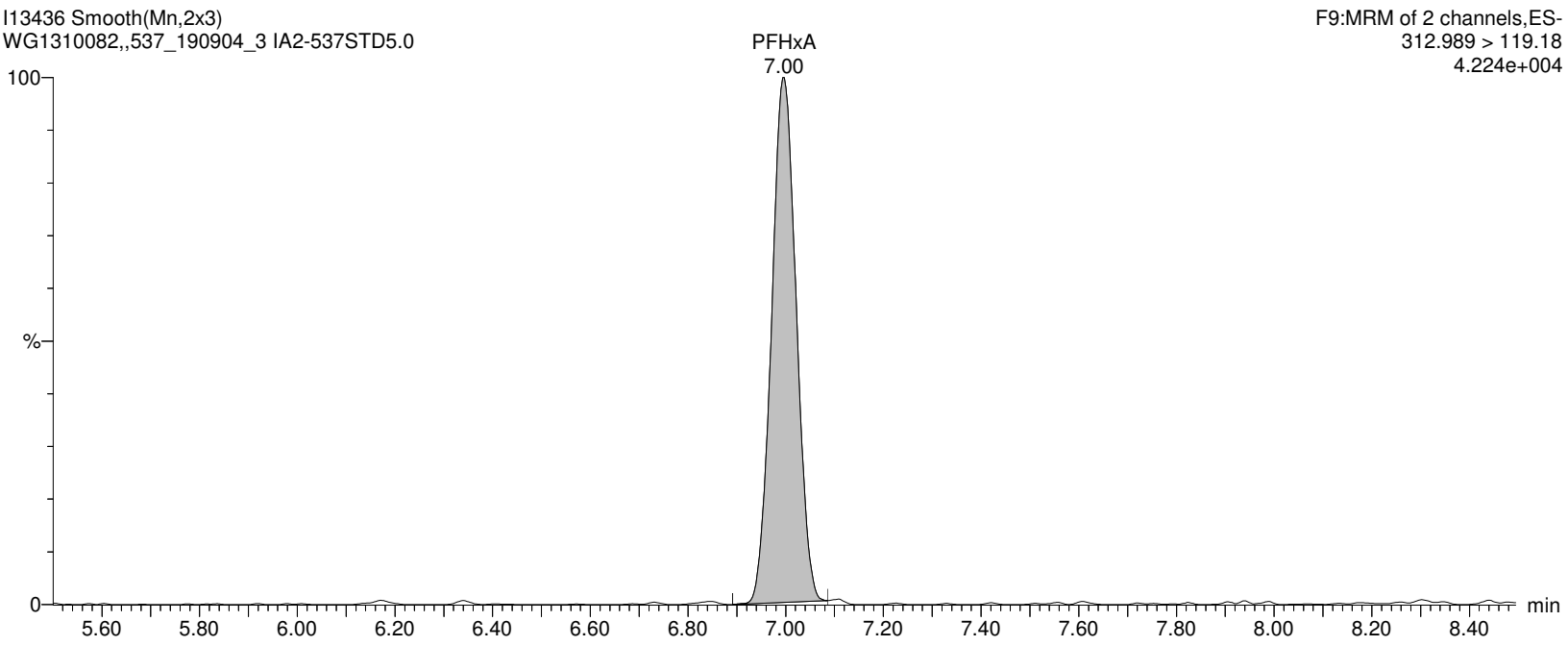

all concentration units in (ng/mL)

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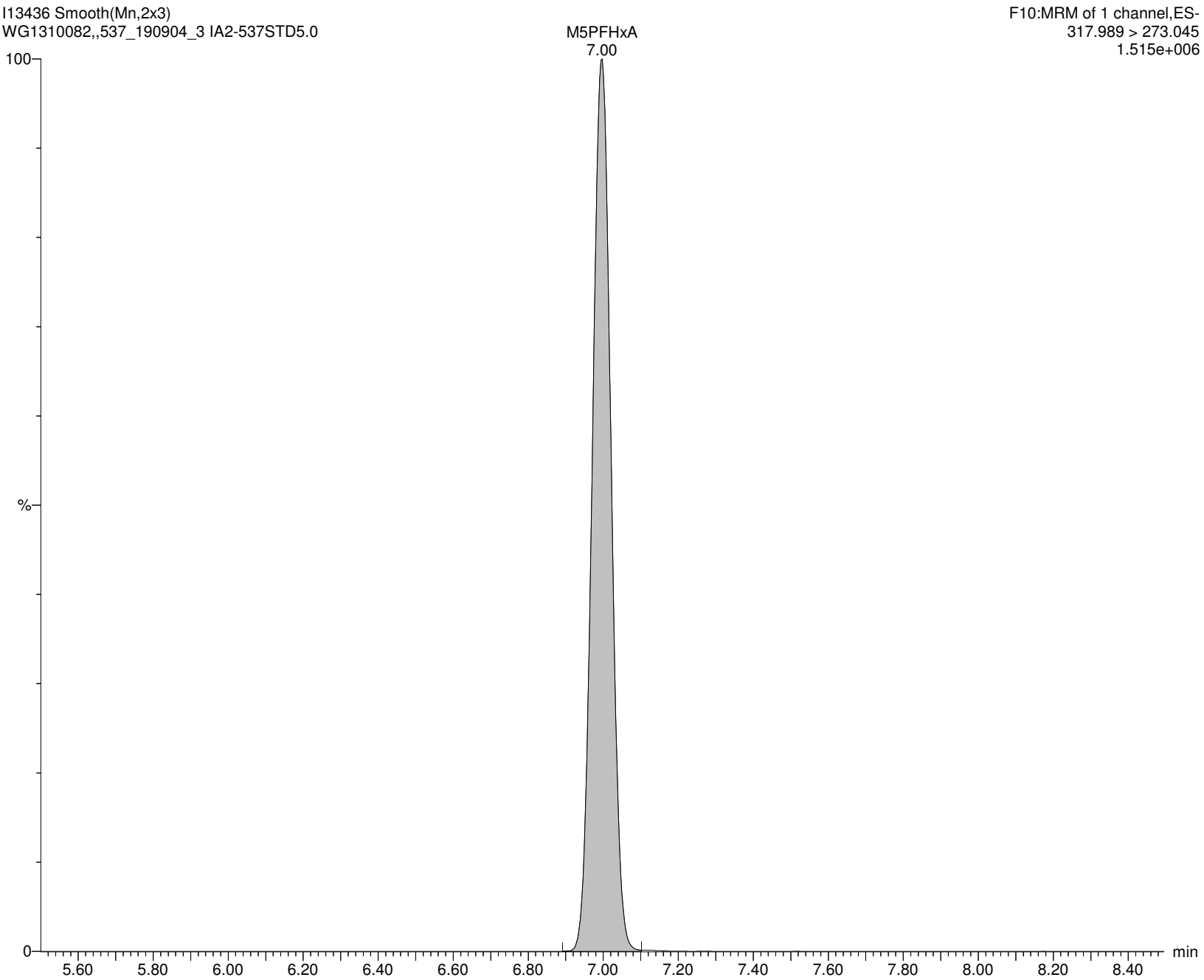

all concentration units in (ng/mL)

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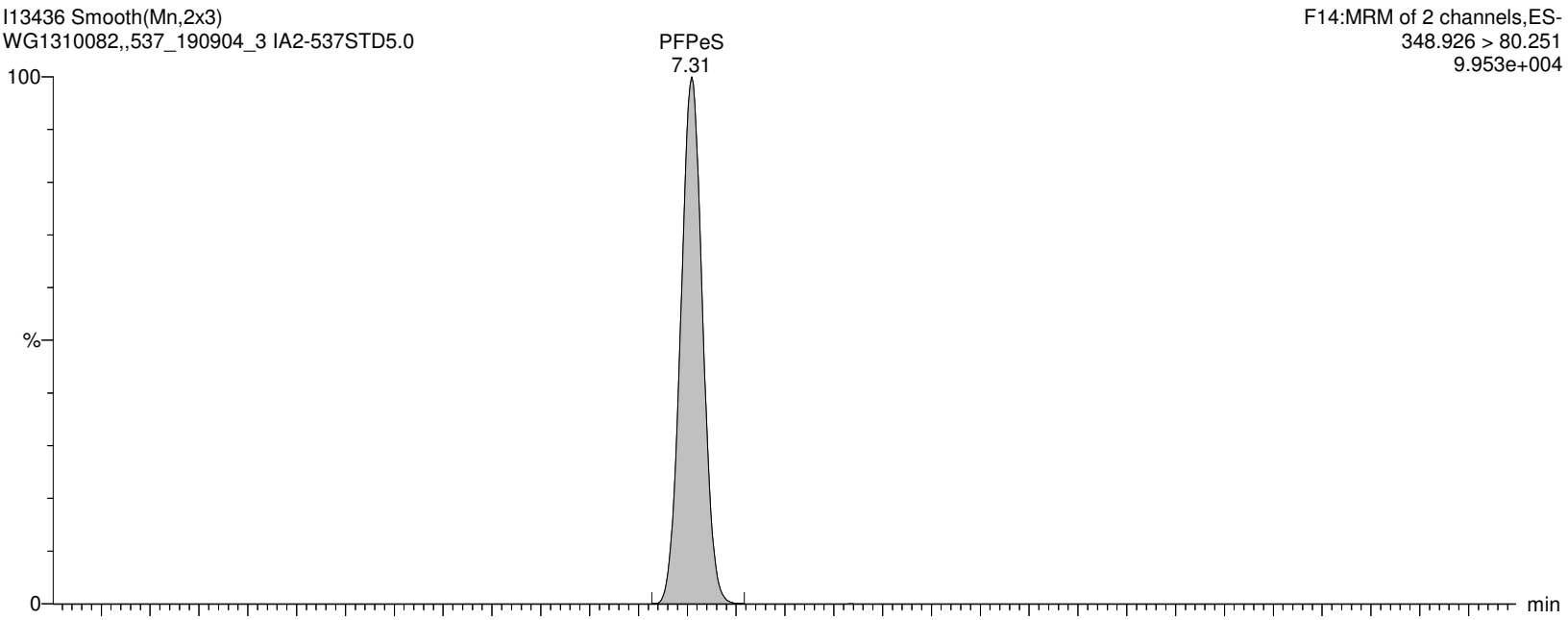

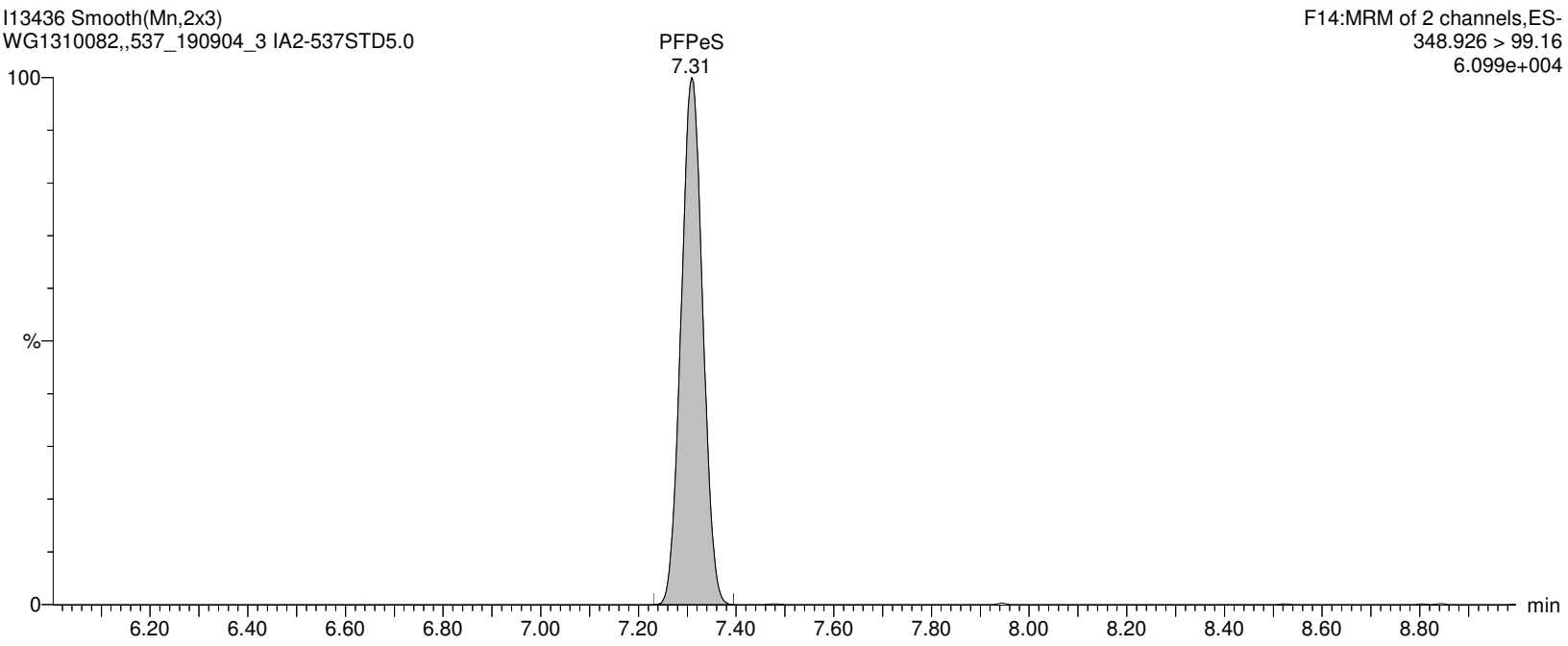

all concentration units in (ng/mL)

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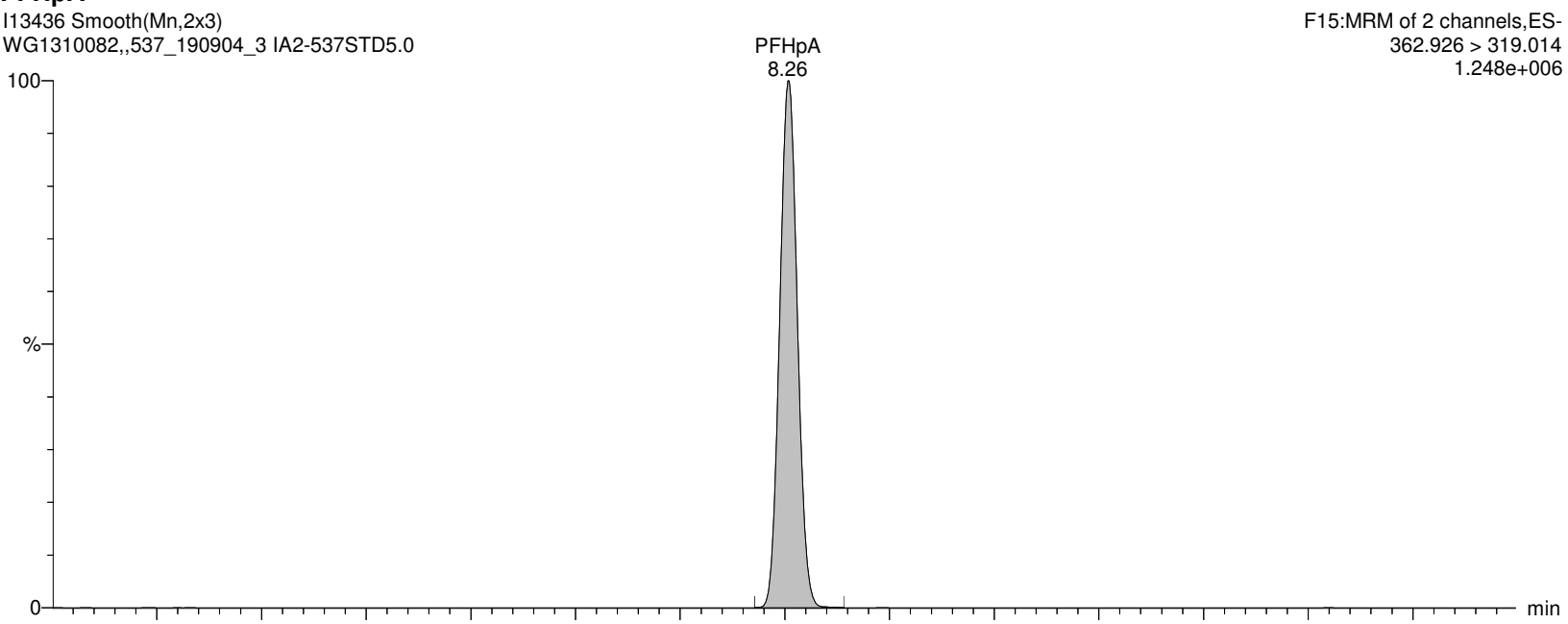

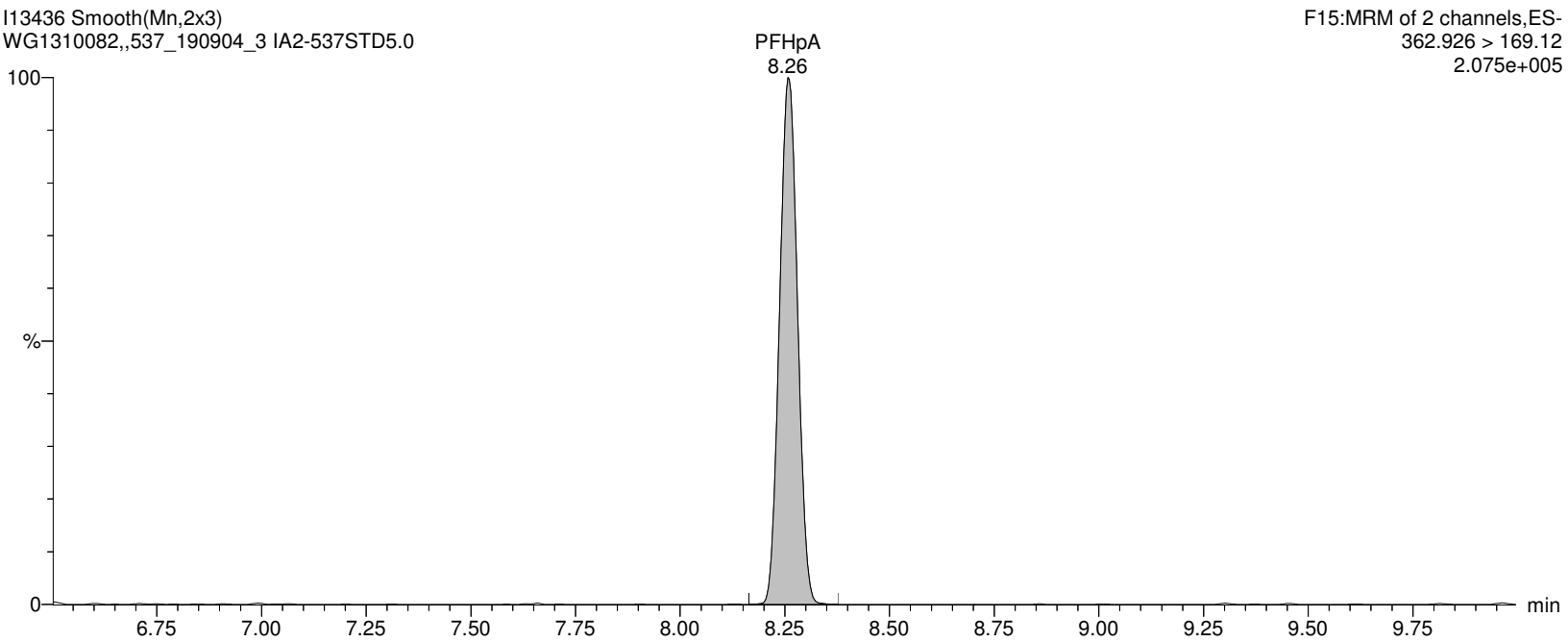

all concentration units in (ng/mL)

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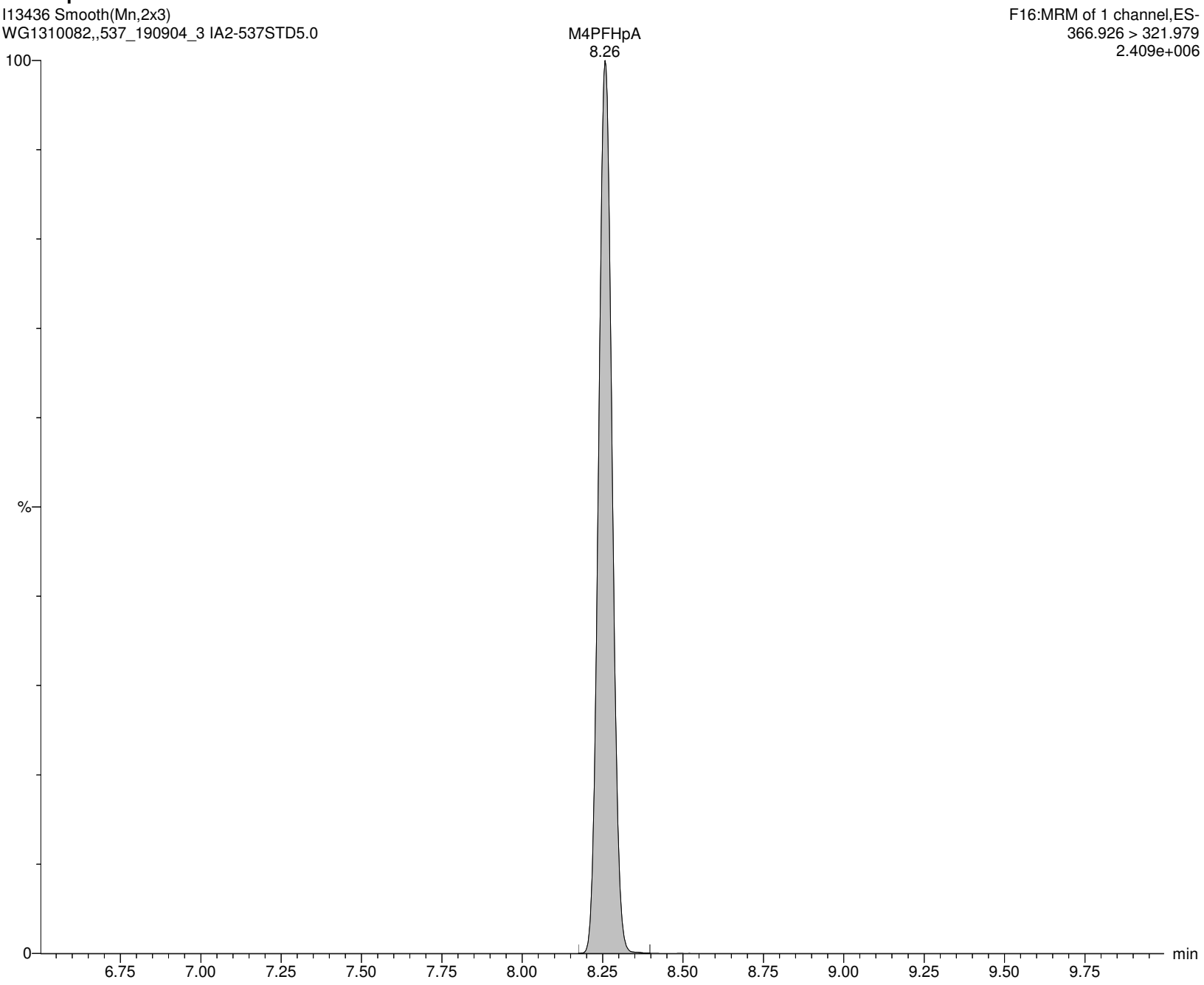

all concentration units in (ng/mL)

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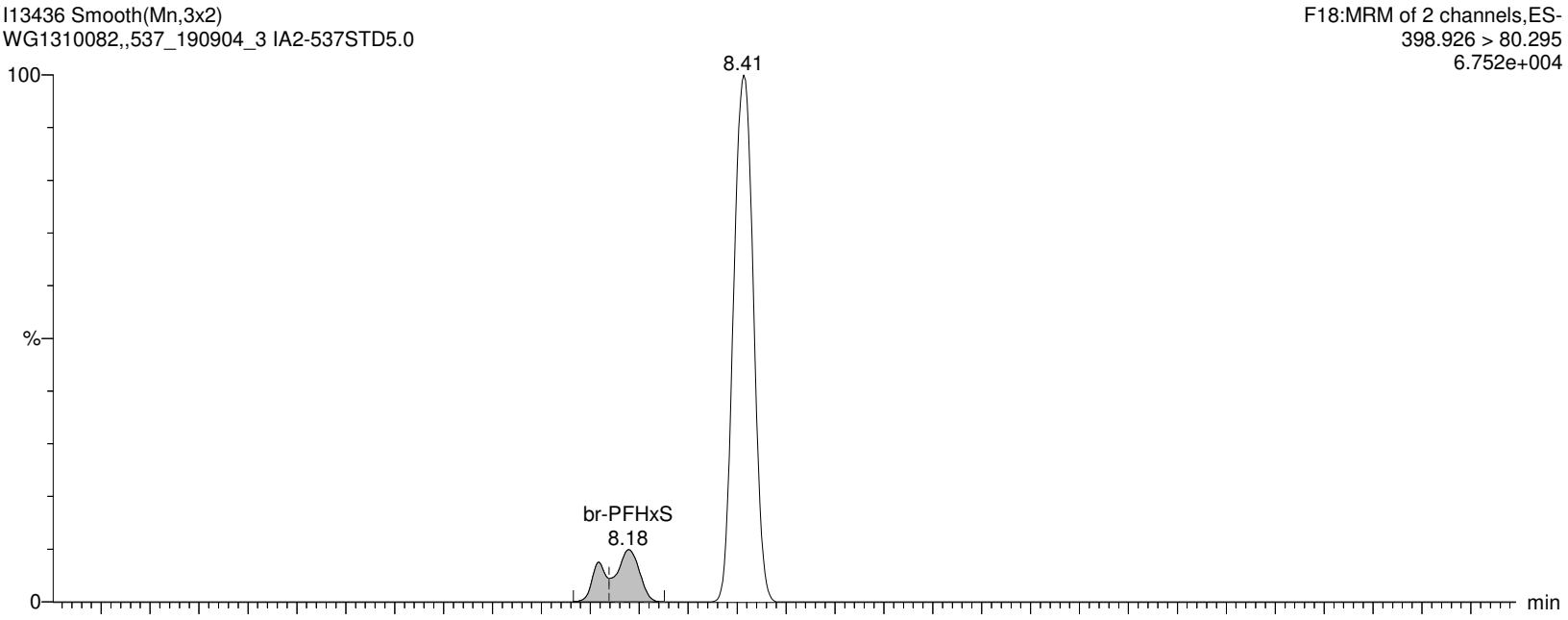

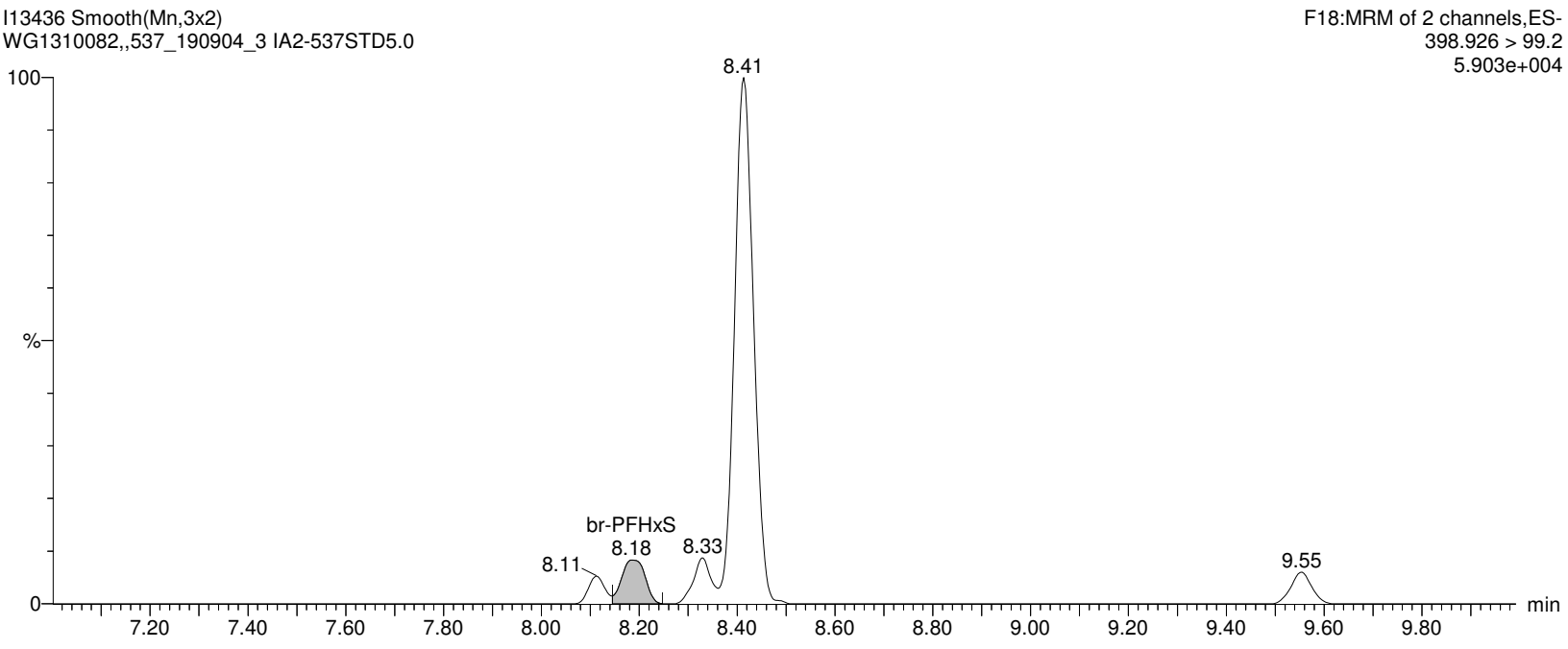

all concentration units in (ng/mL)

Alpha Analytical Inc.
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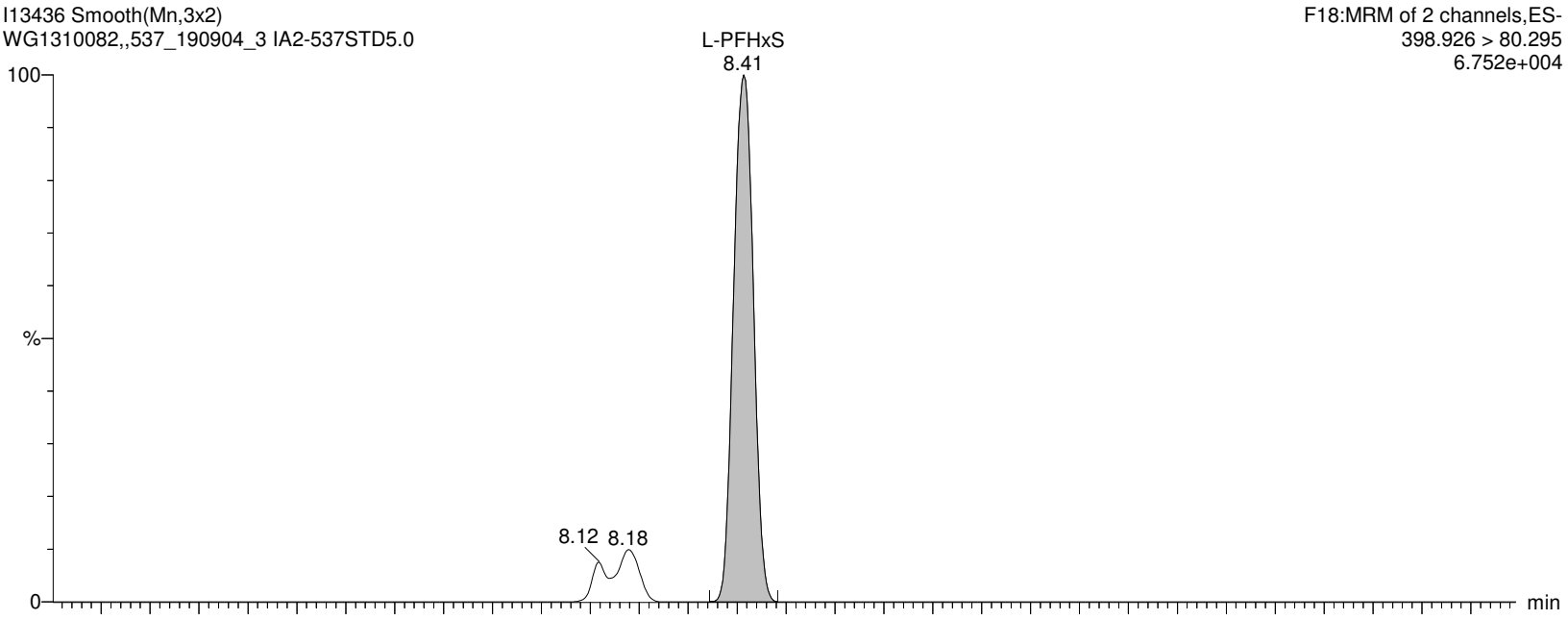
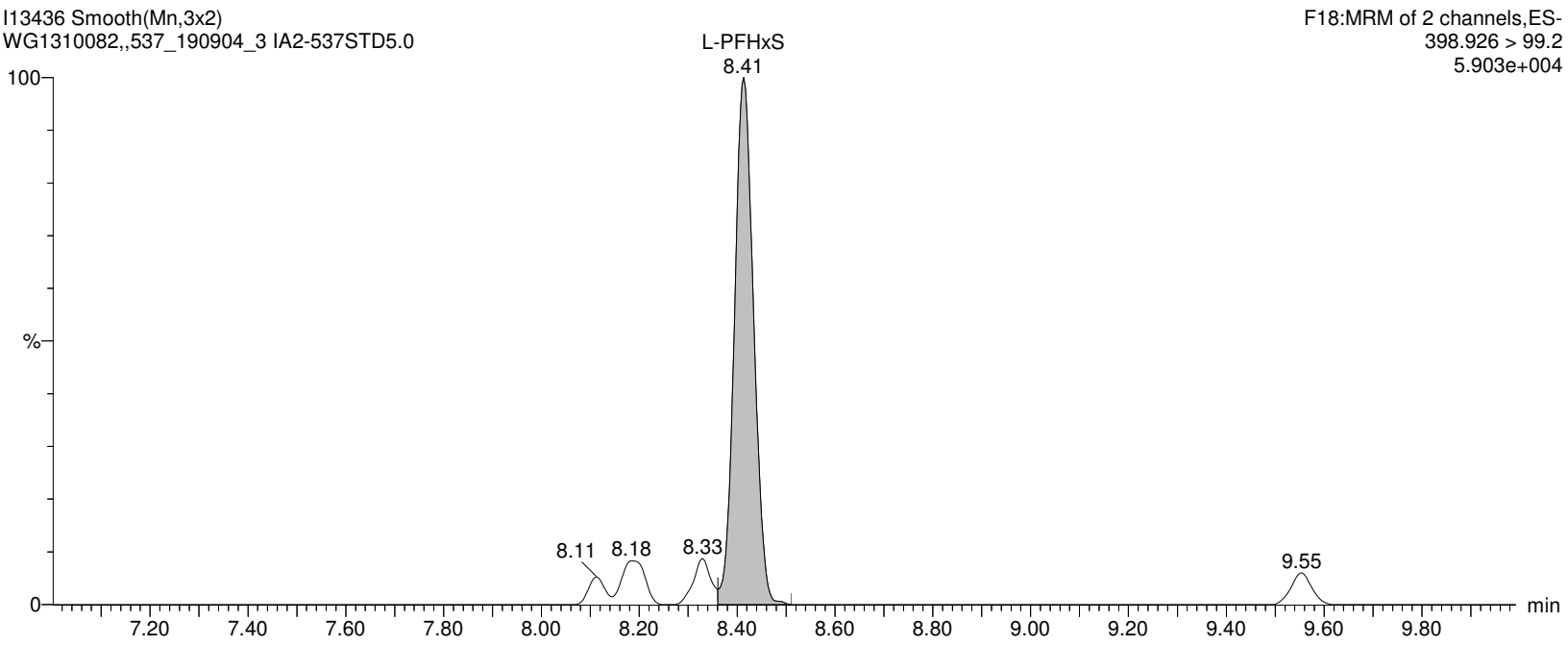
L-PFHxS





all concentration units in (ng/mL)

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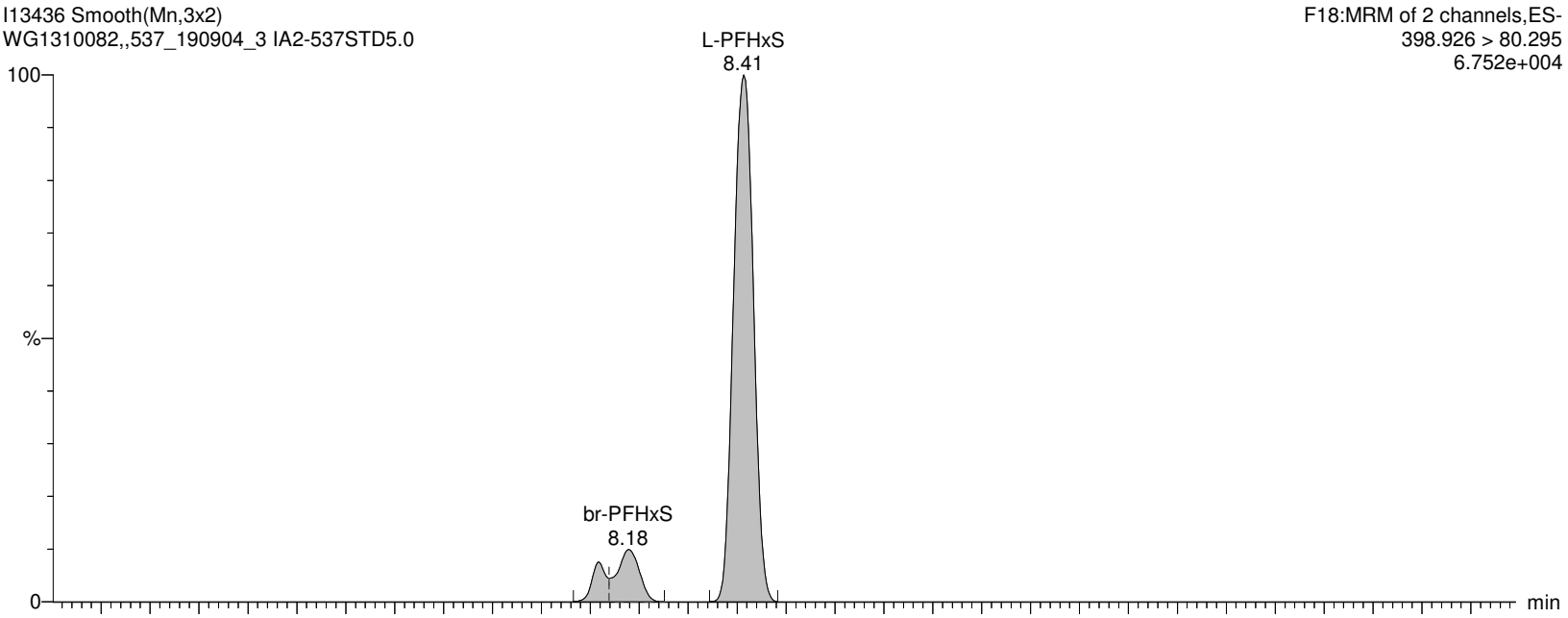

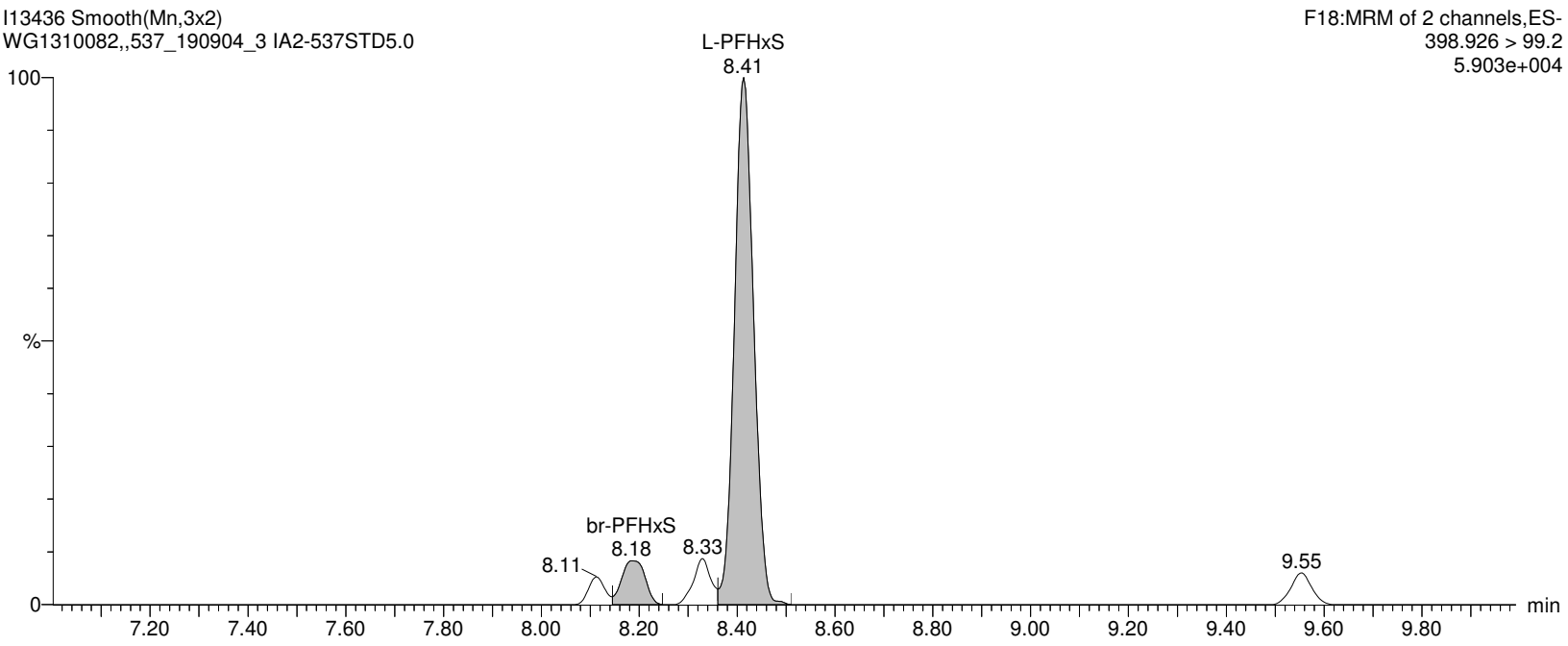

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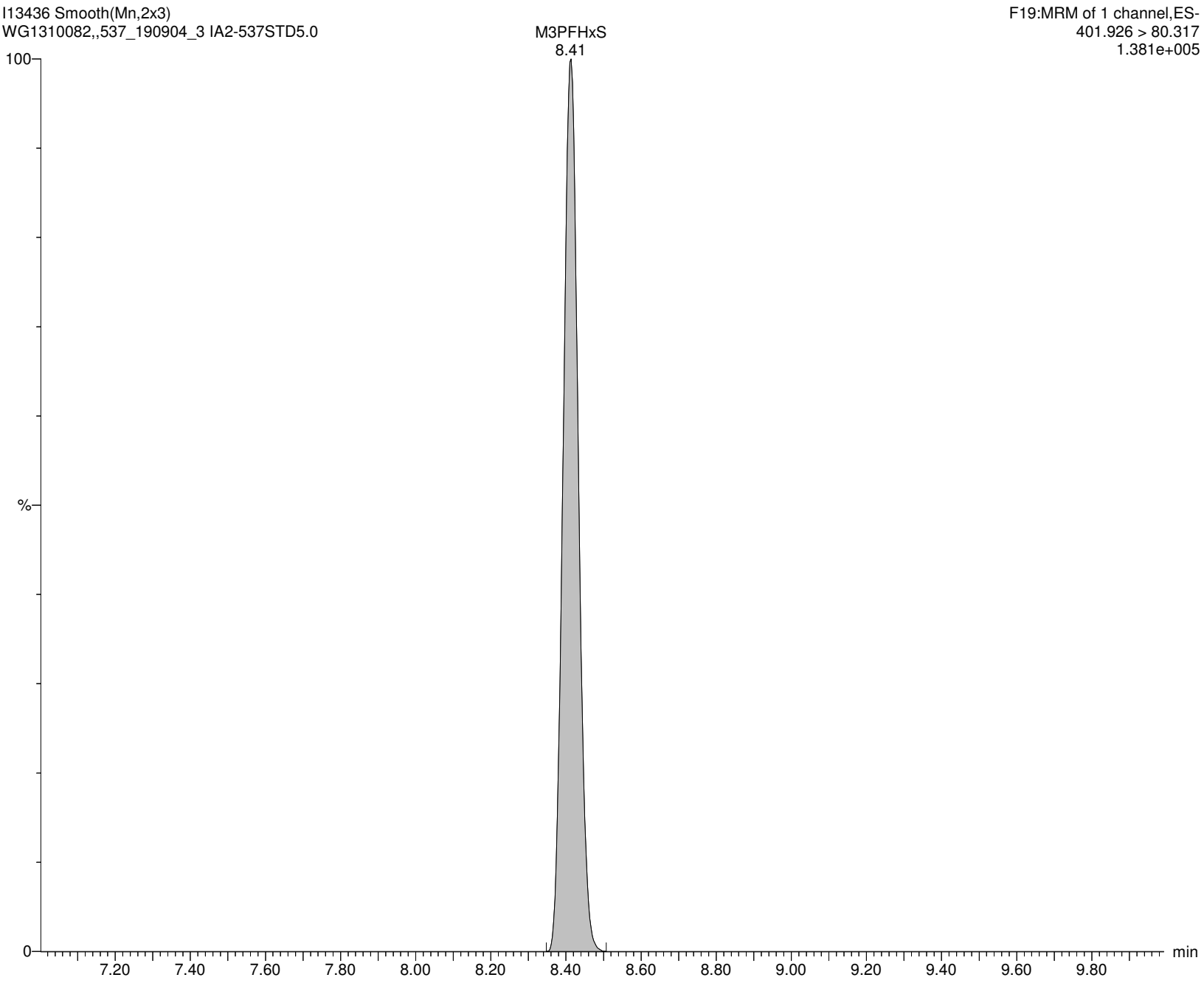

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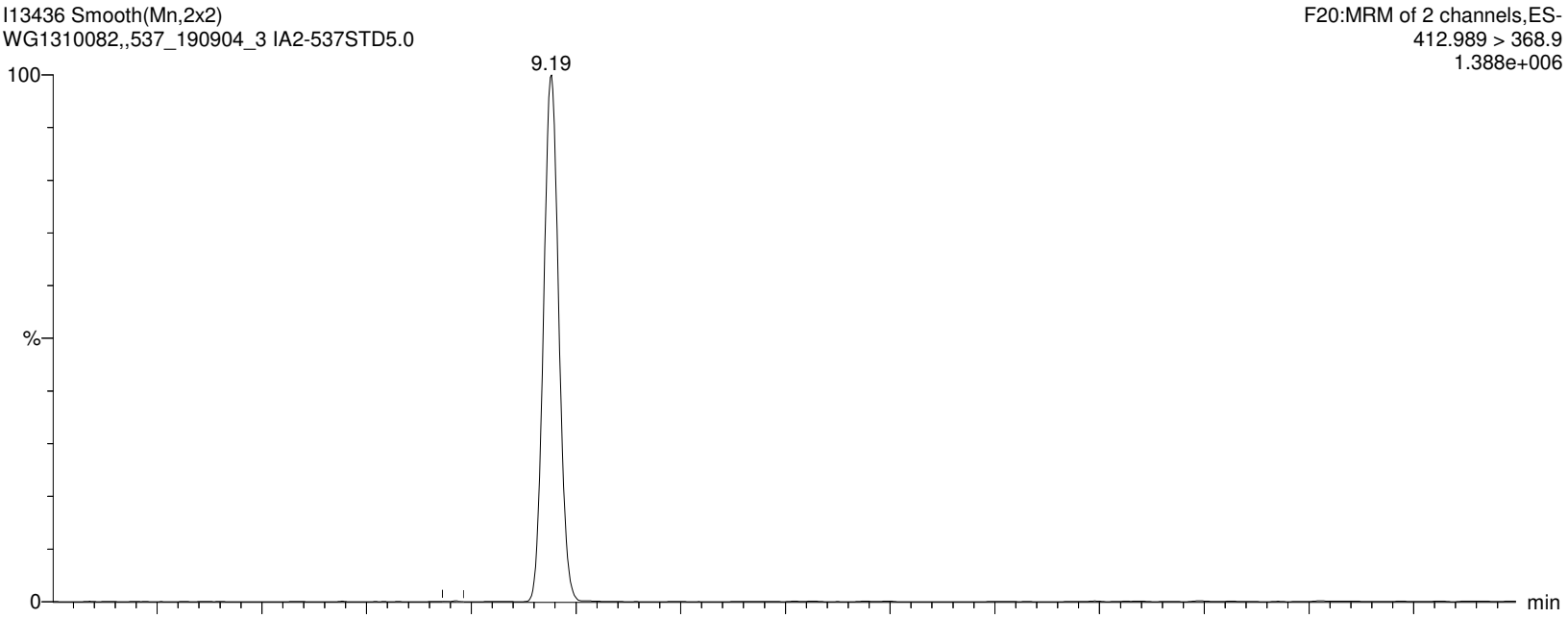

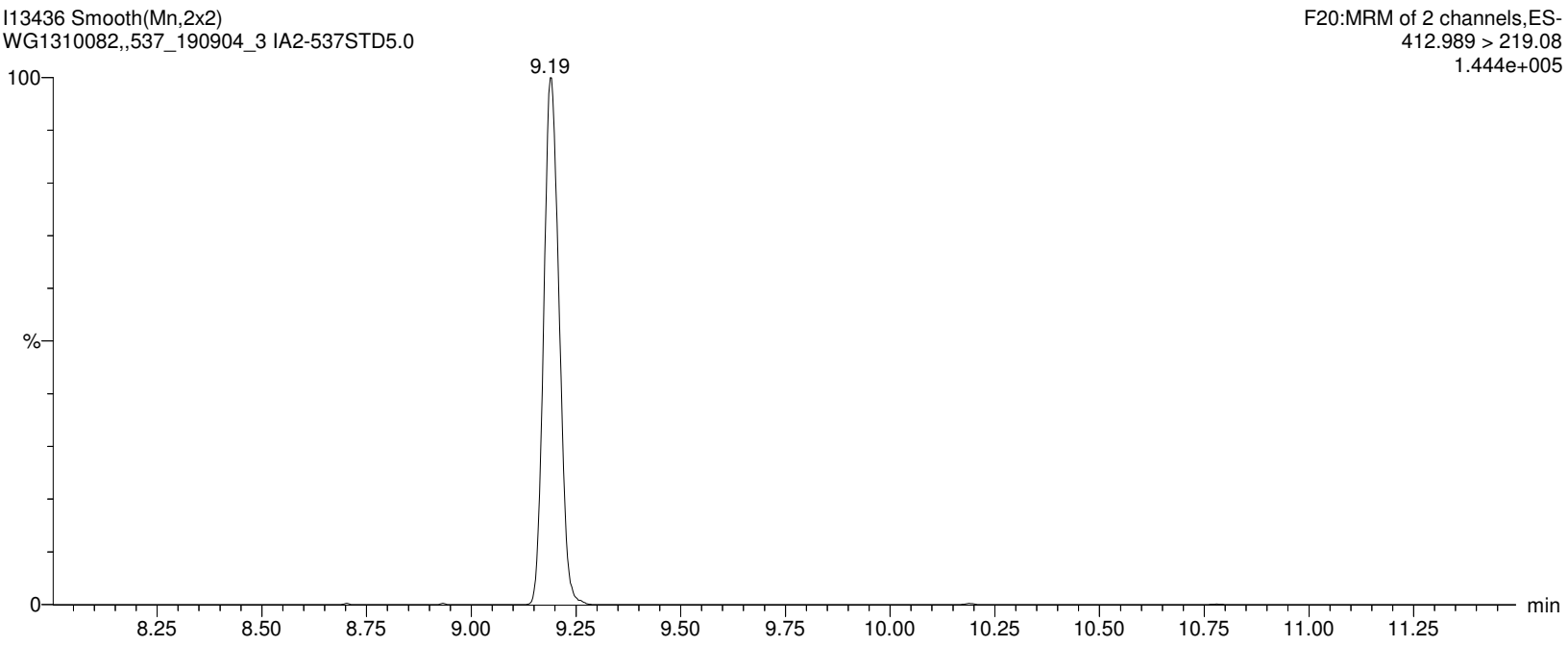

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:52 Eastern Standard Time

Name: I13436
ID: IA2-537STD5.0
Date: 18-Nov-2019
Time: 11:10:20
Description: WG1310082,,537_190904_3
User: LCMS02:JW
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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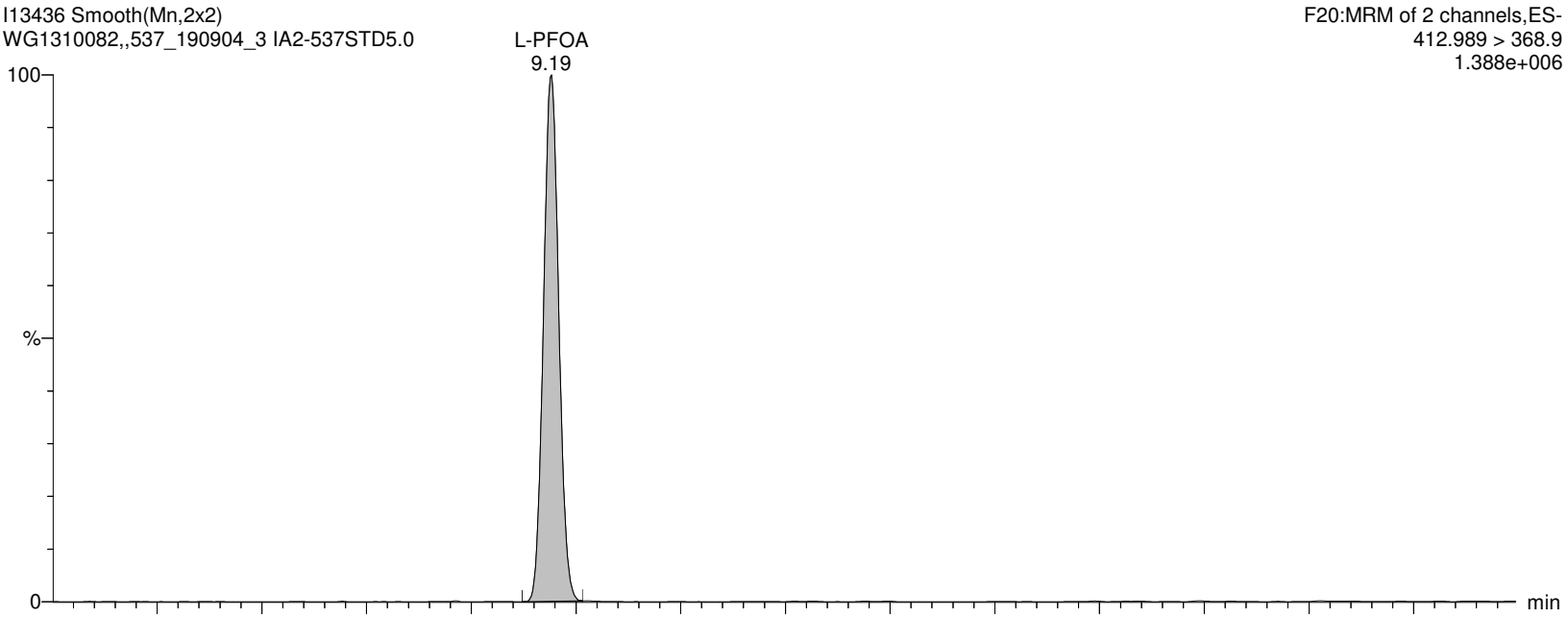

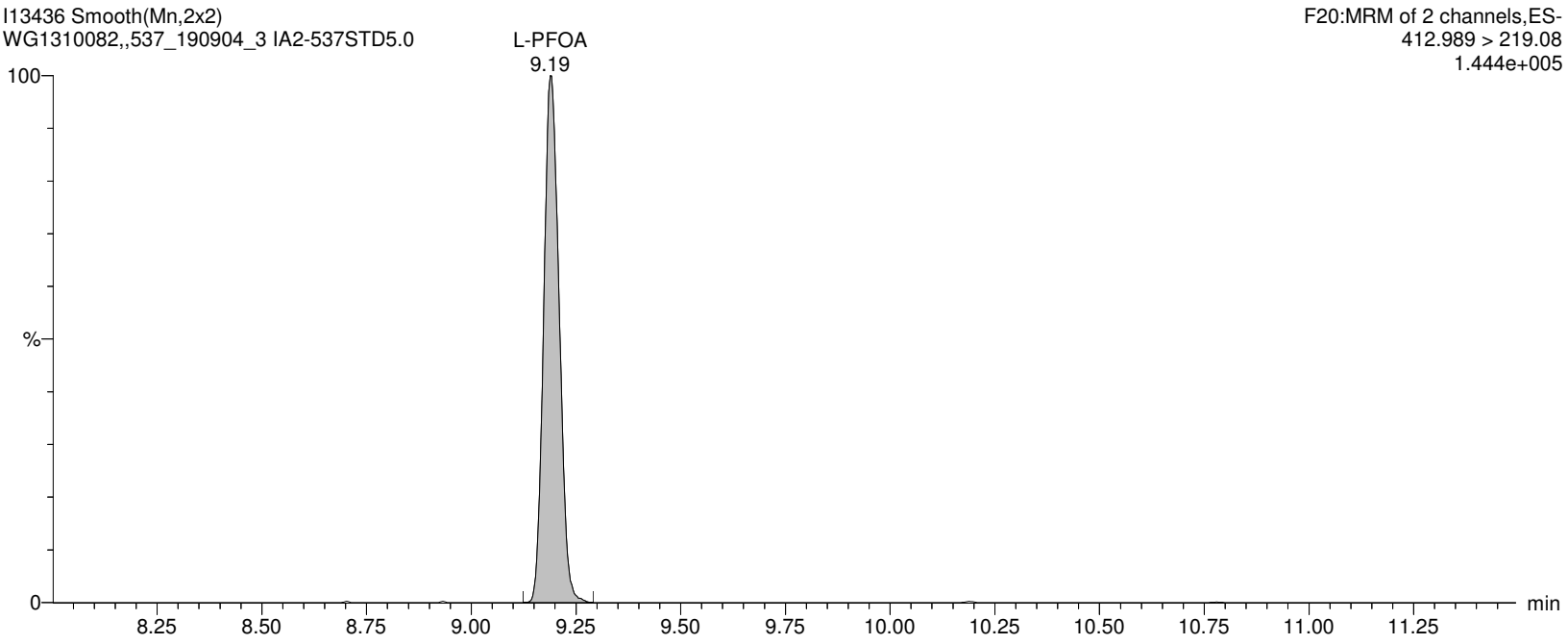

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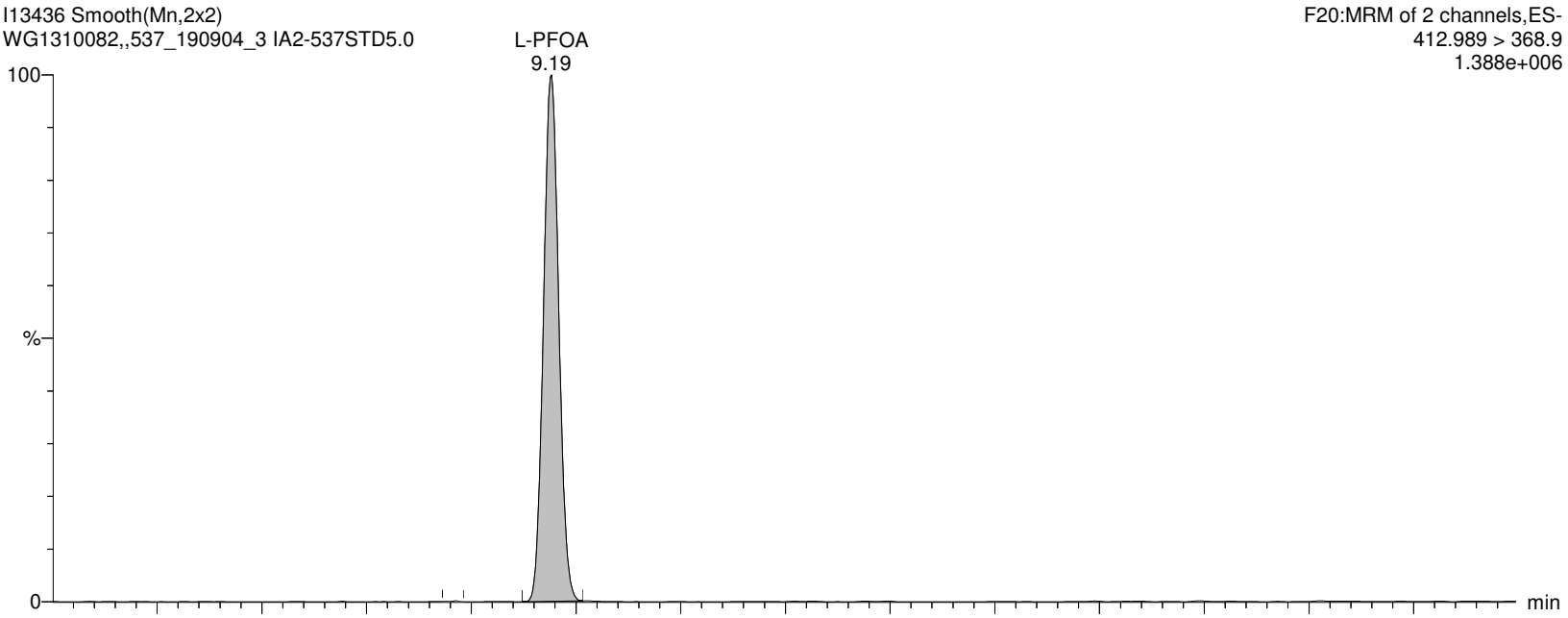

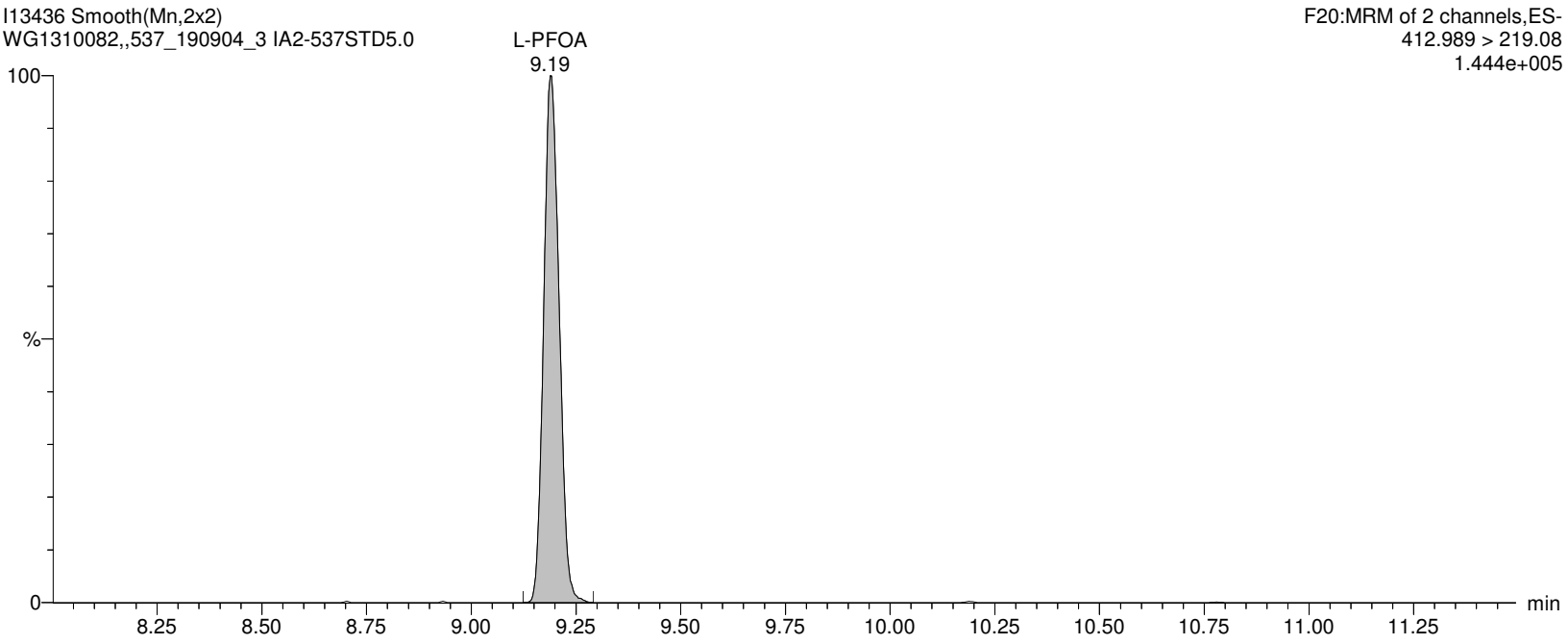

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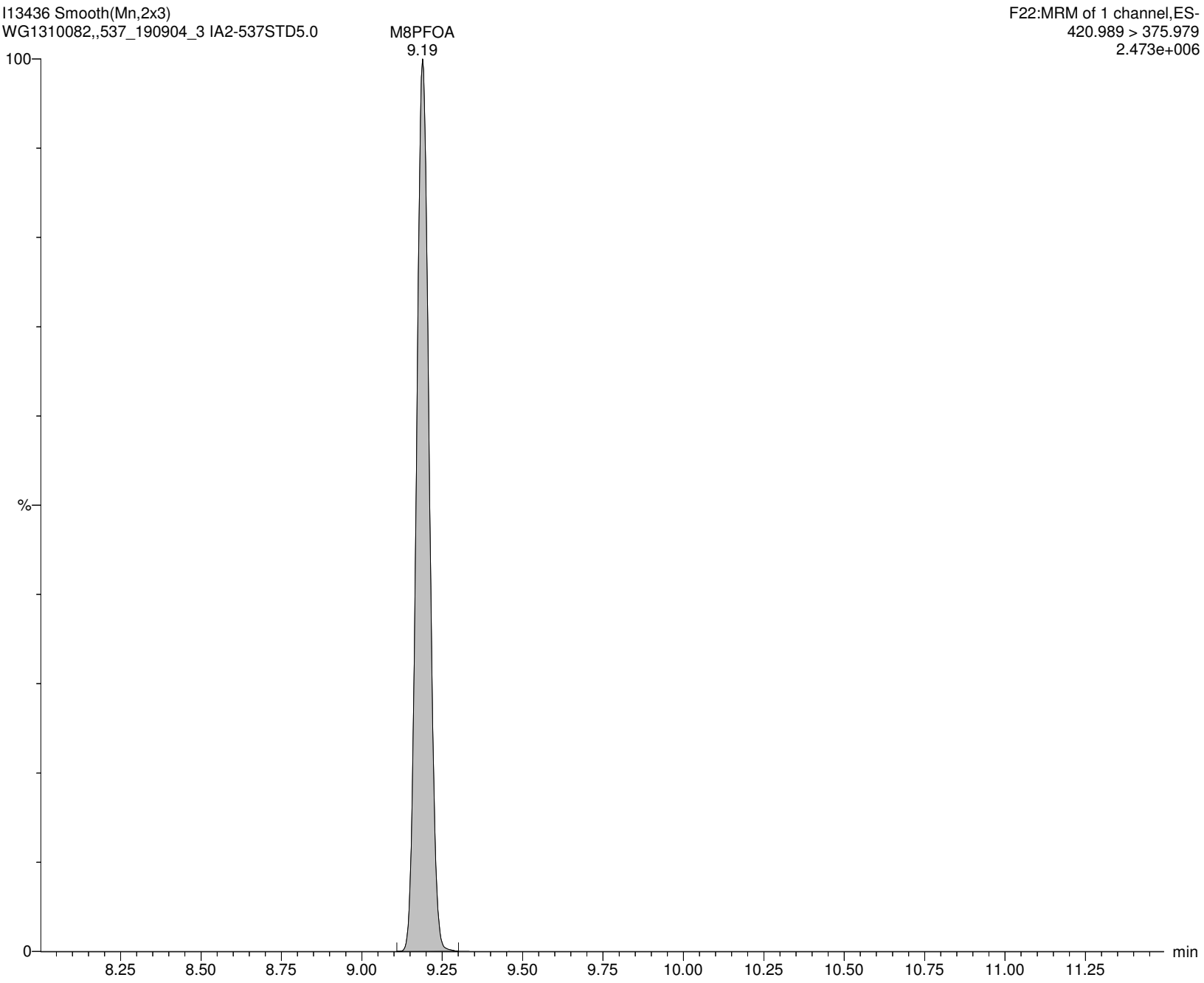

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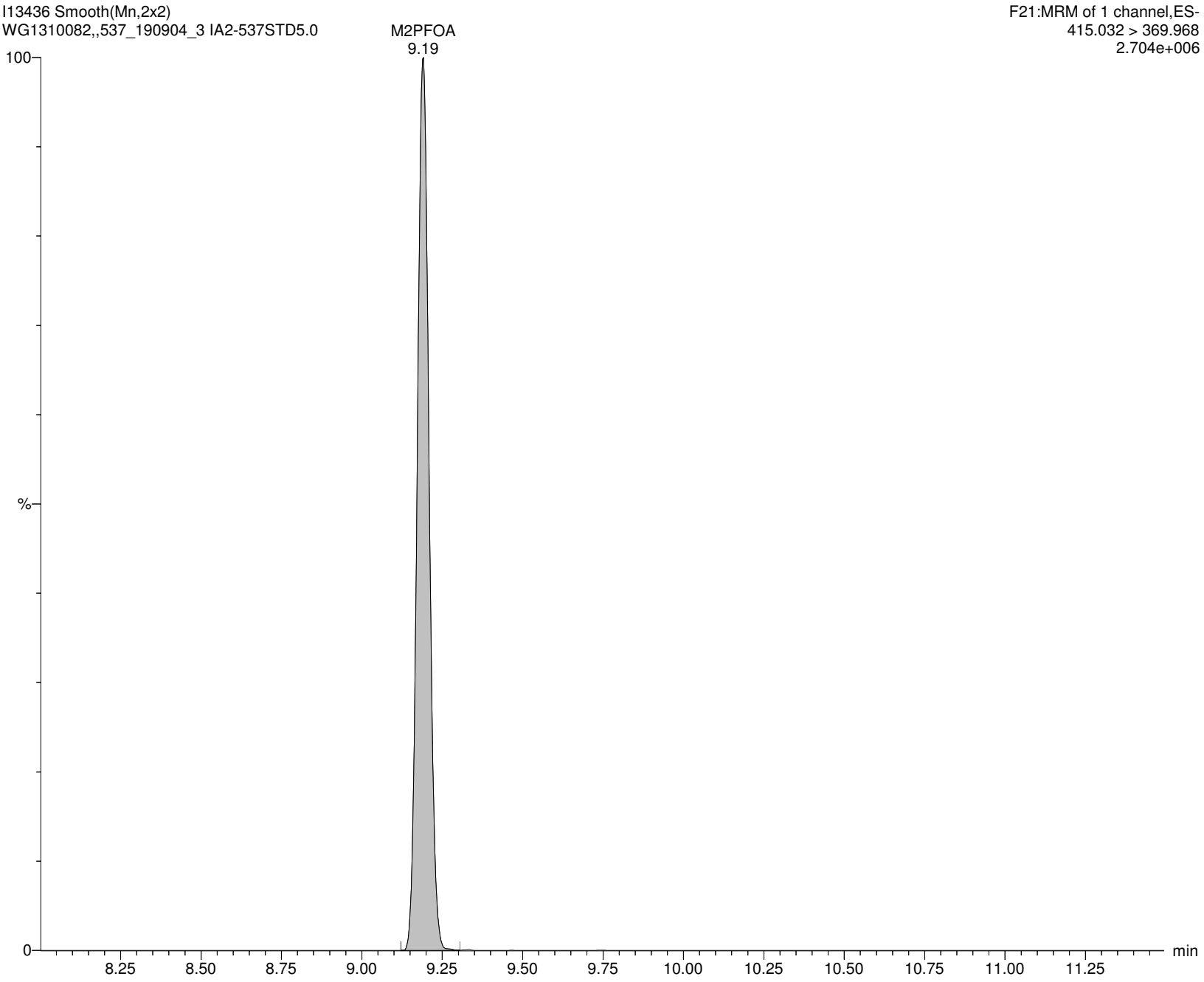

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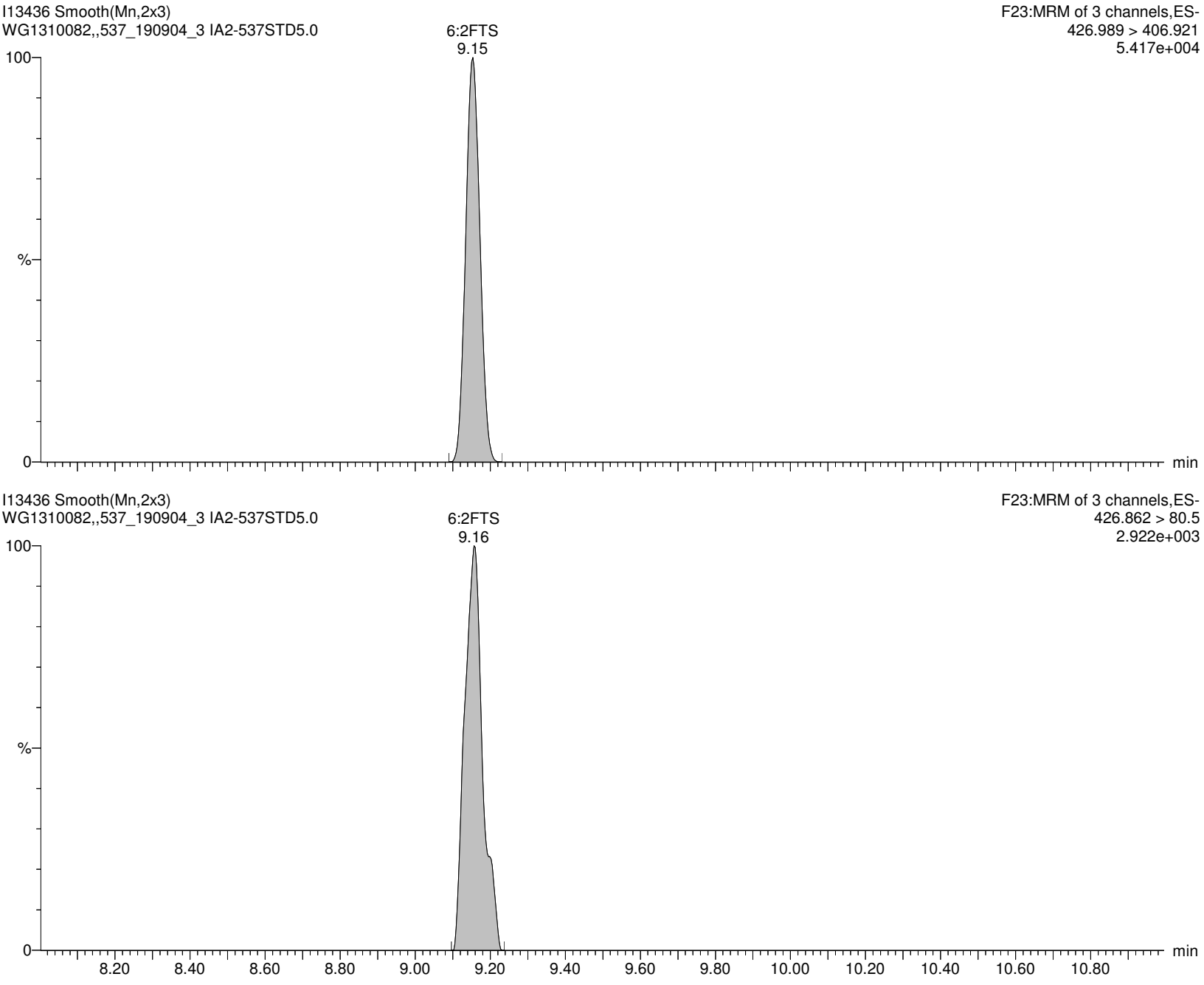

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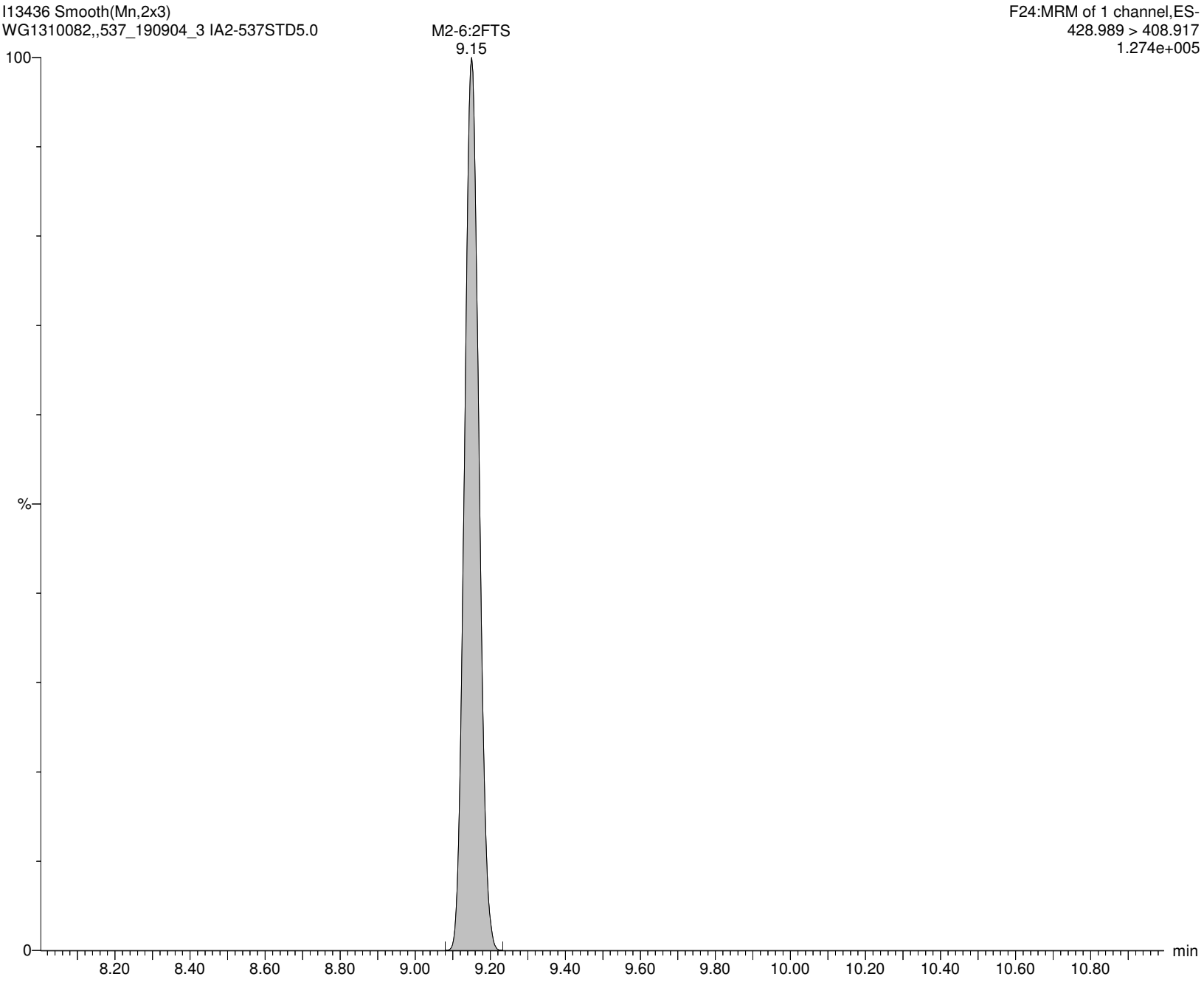

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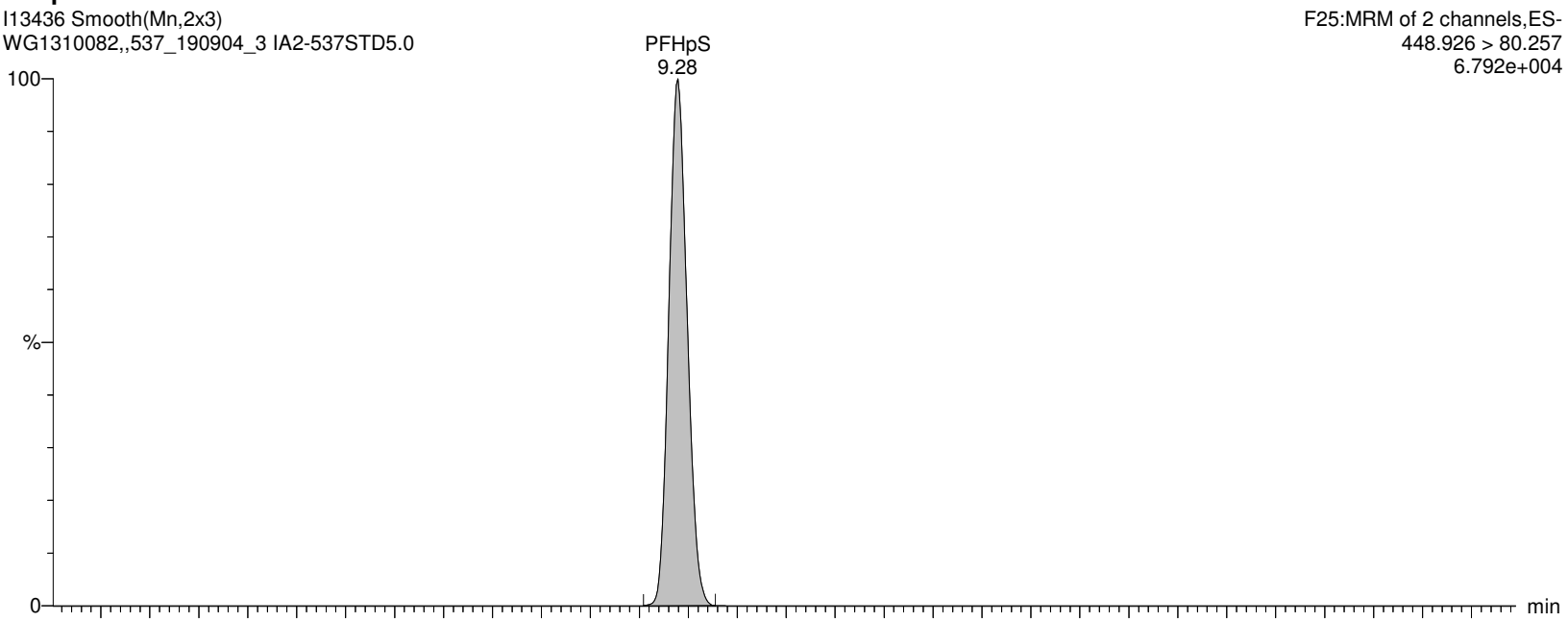

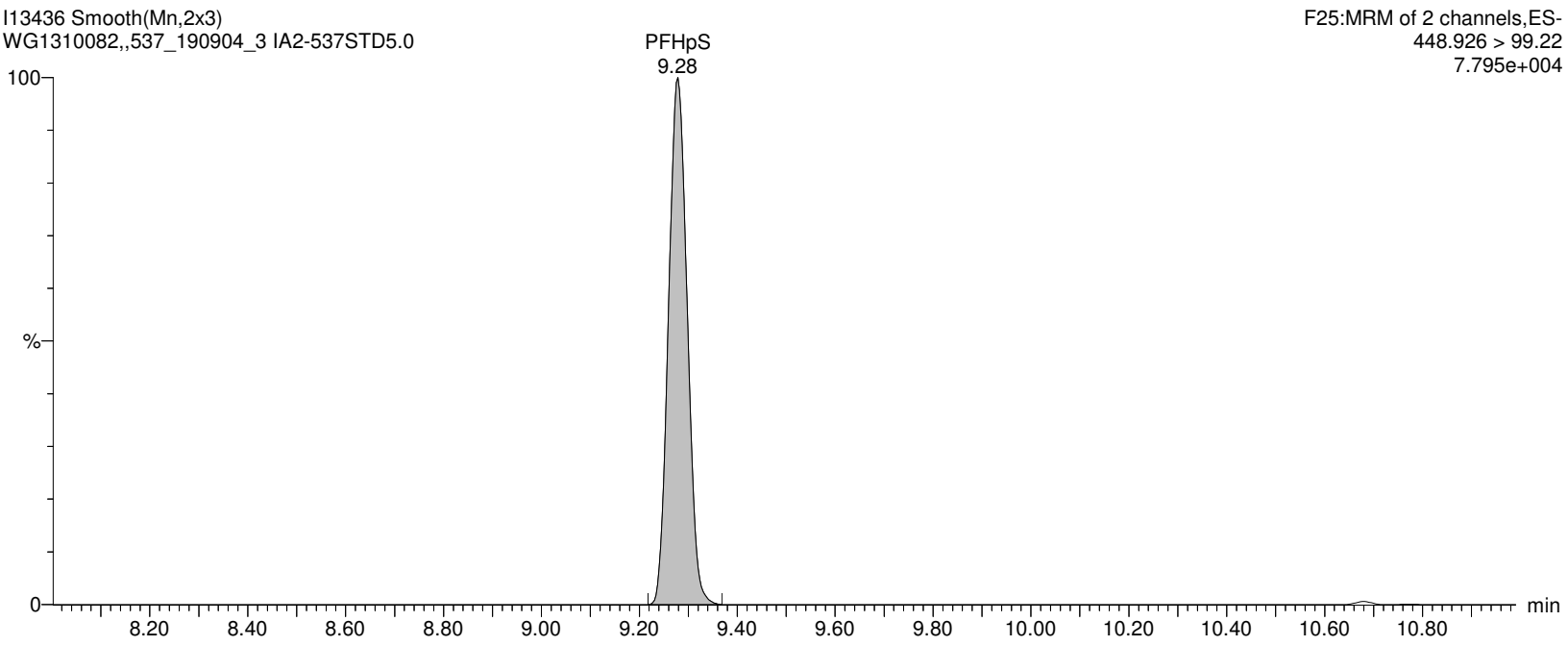

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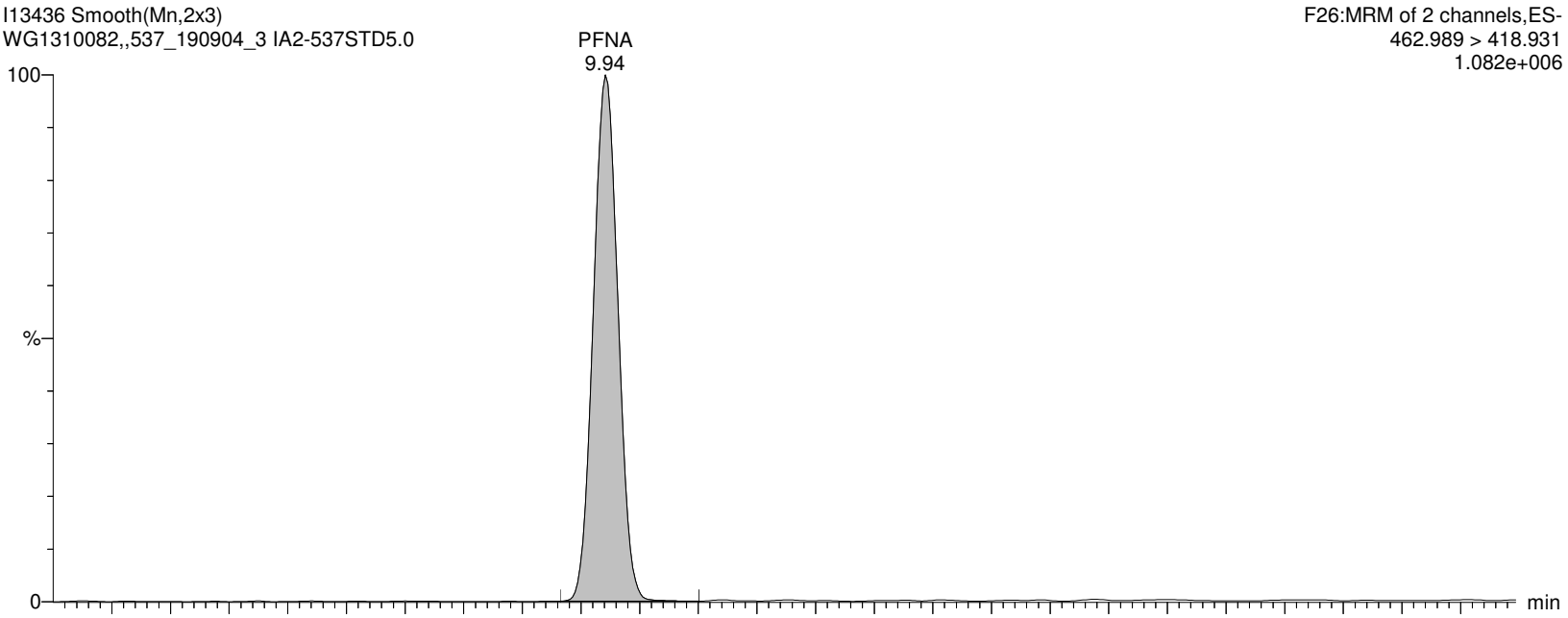

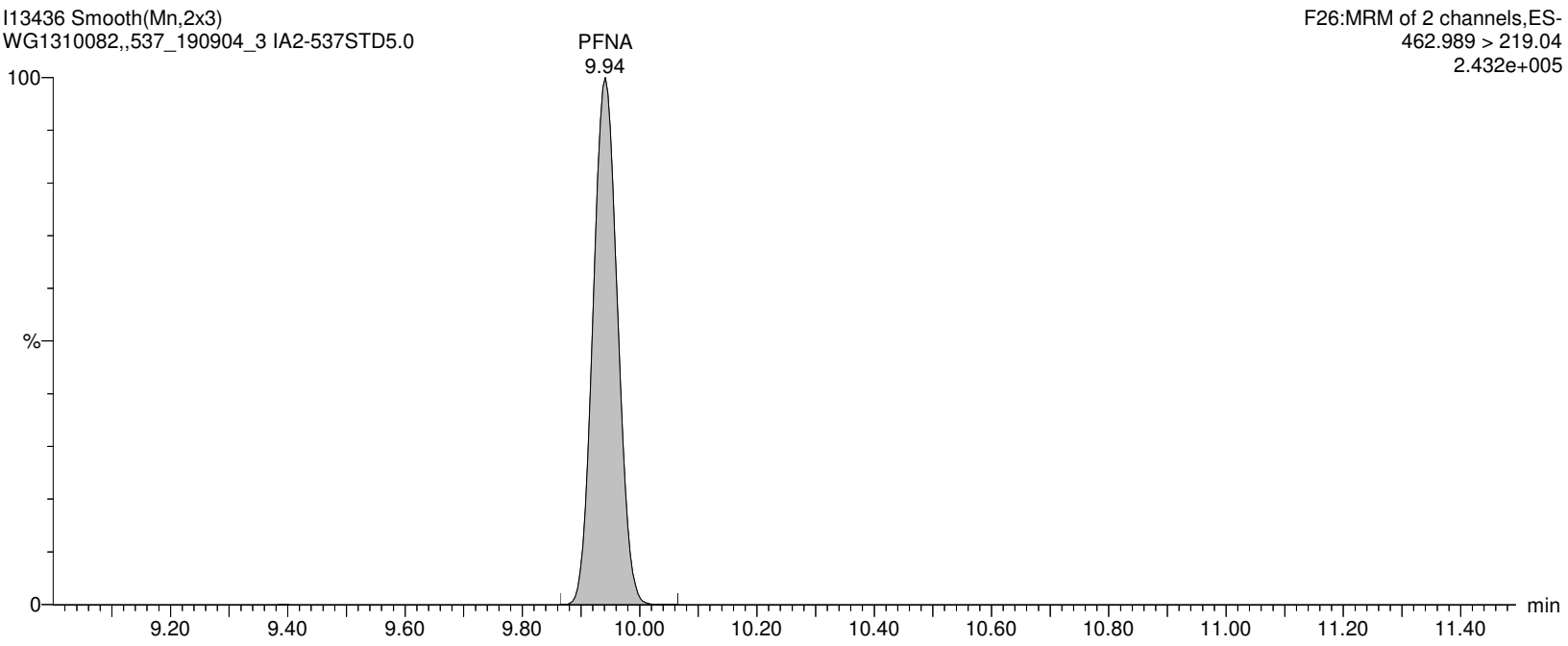

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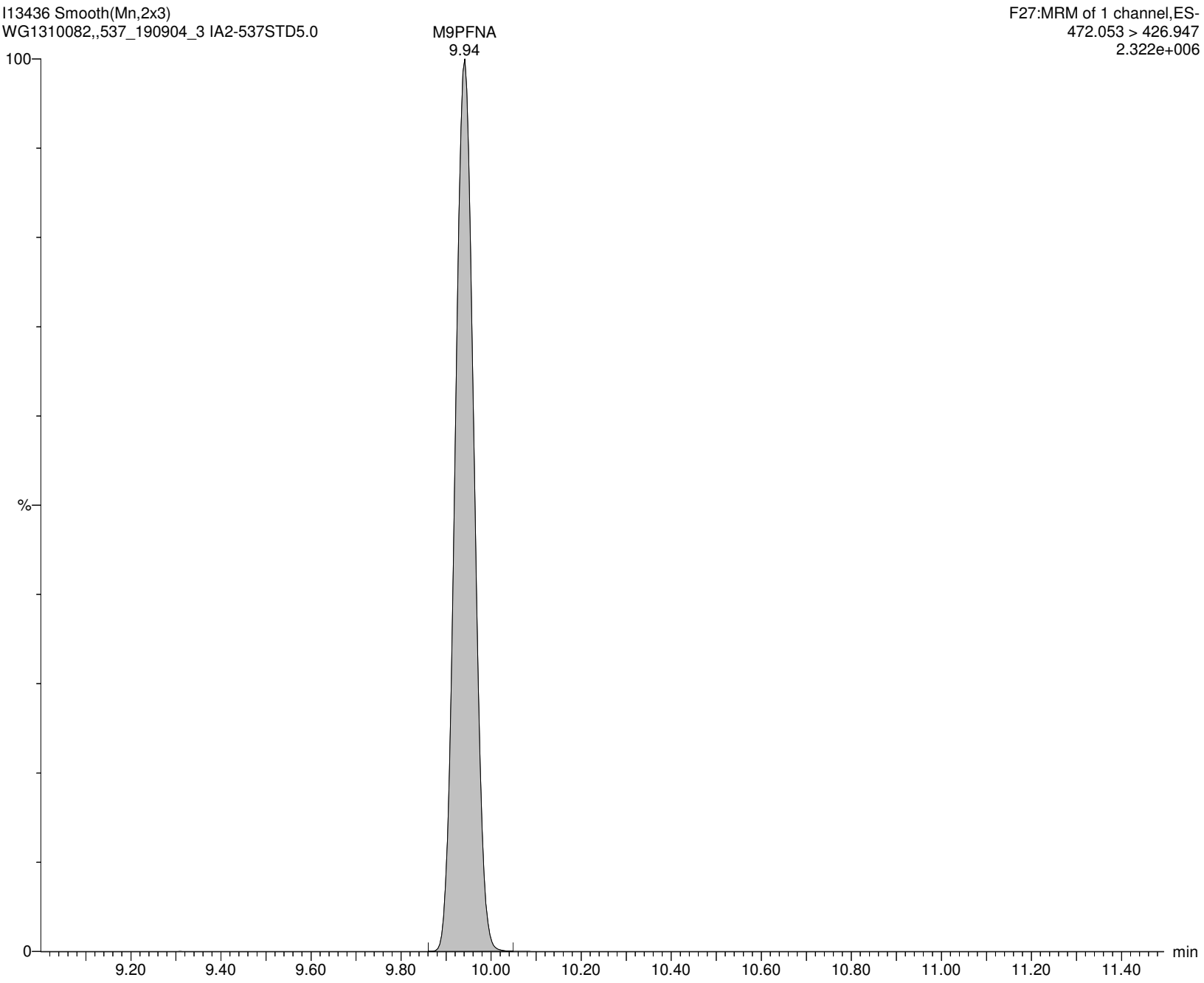

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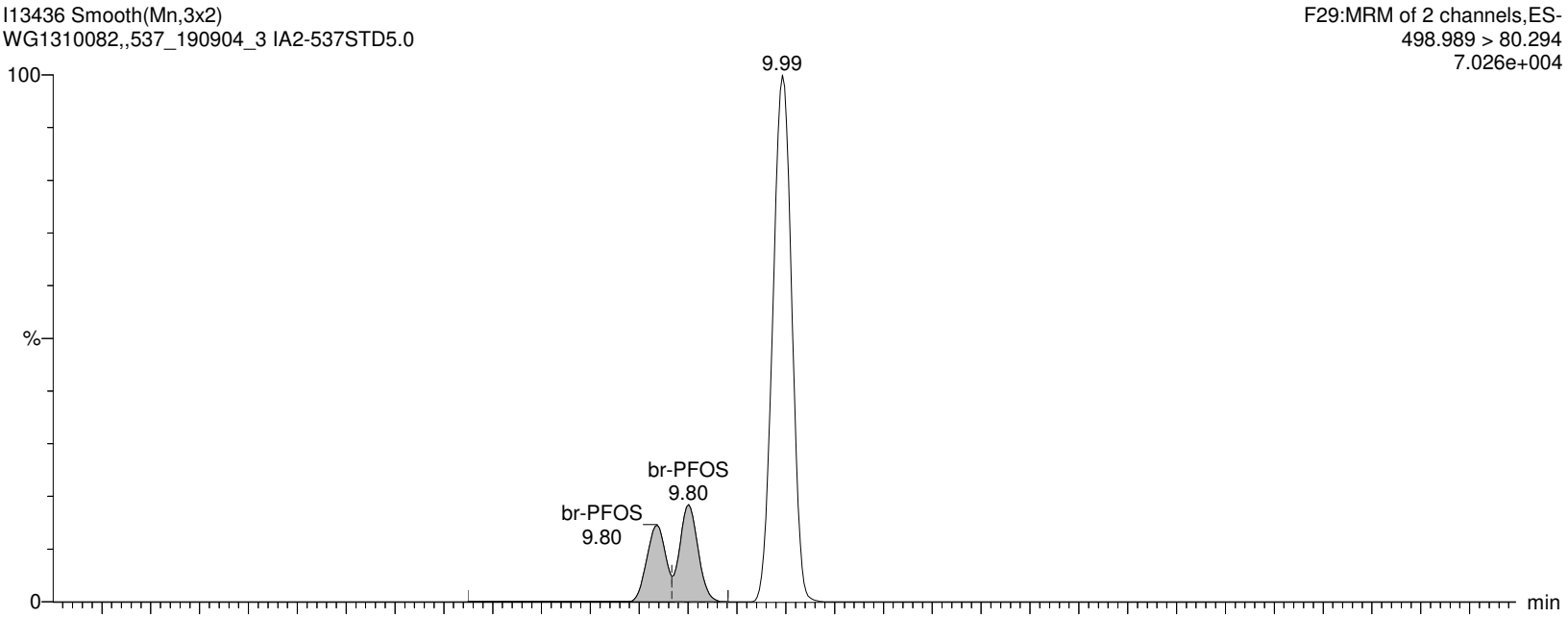

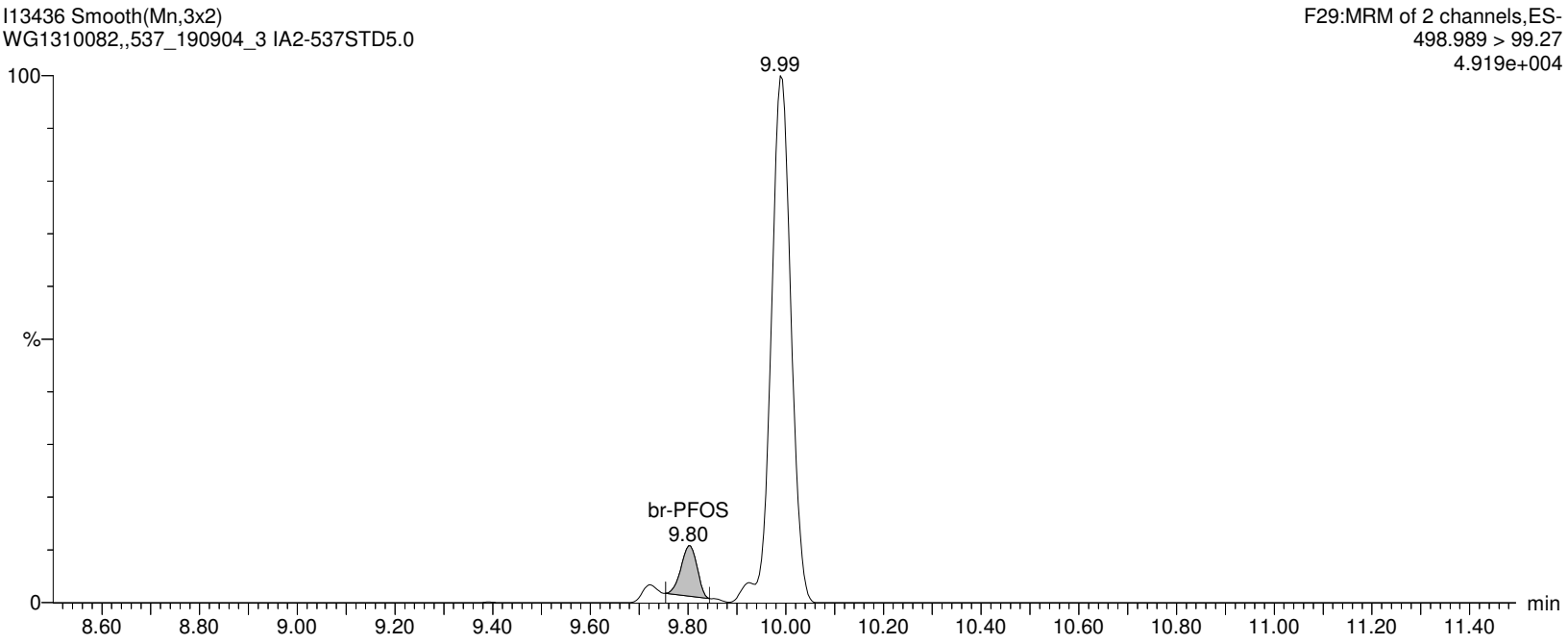

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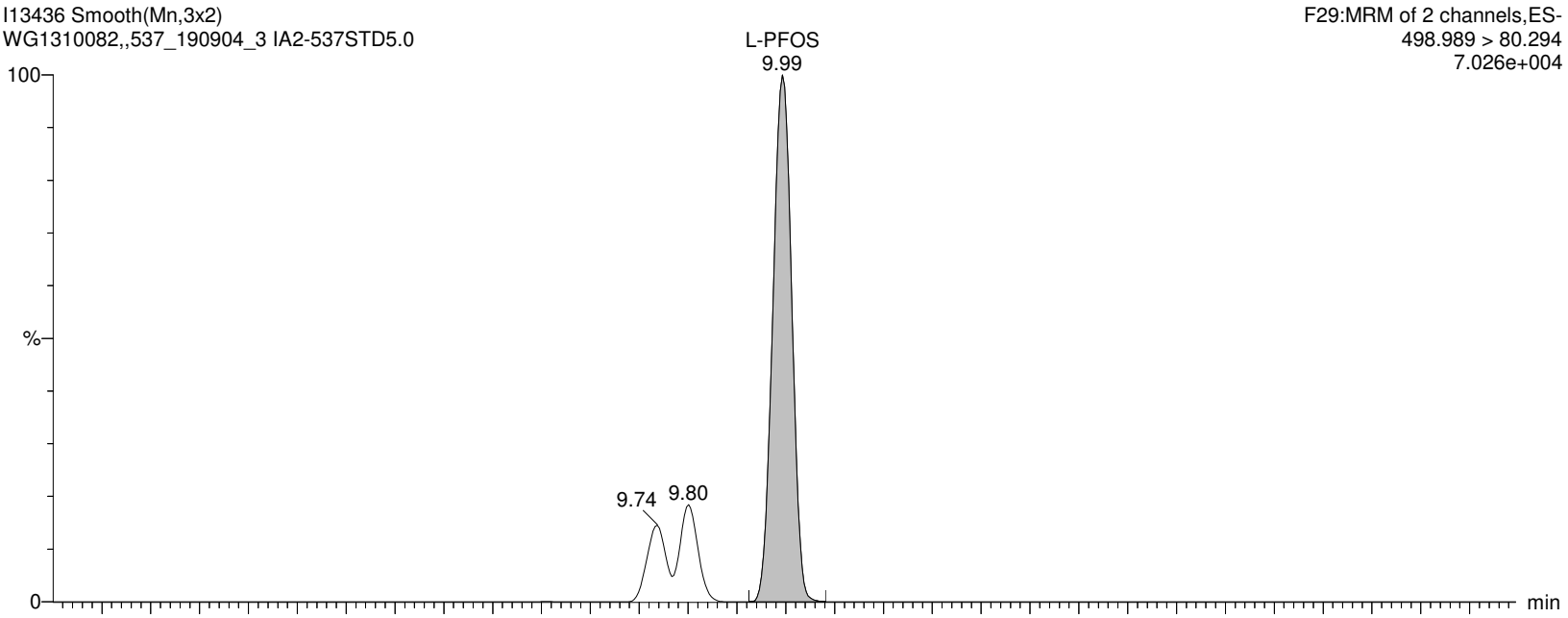

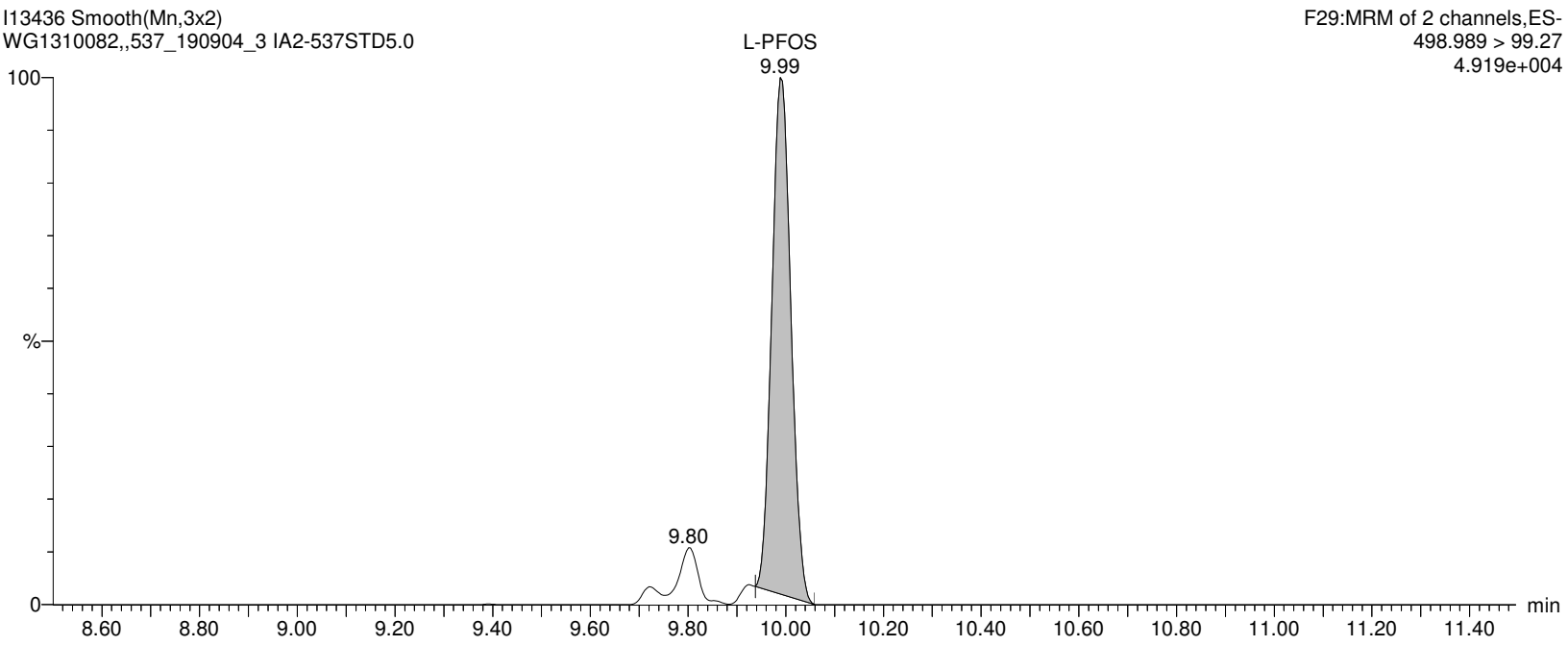

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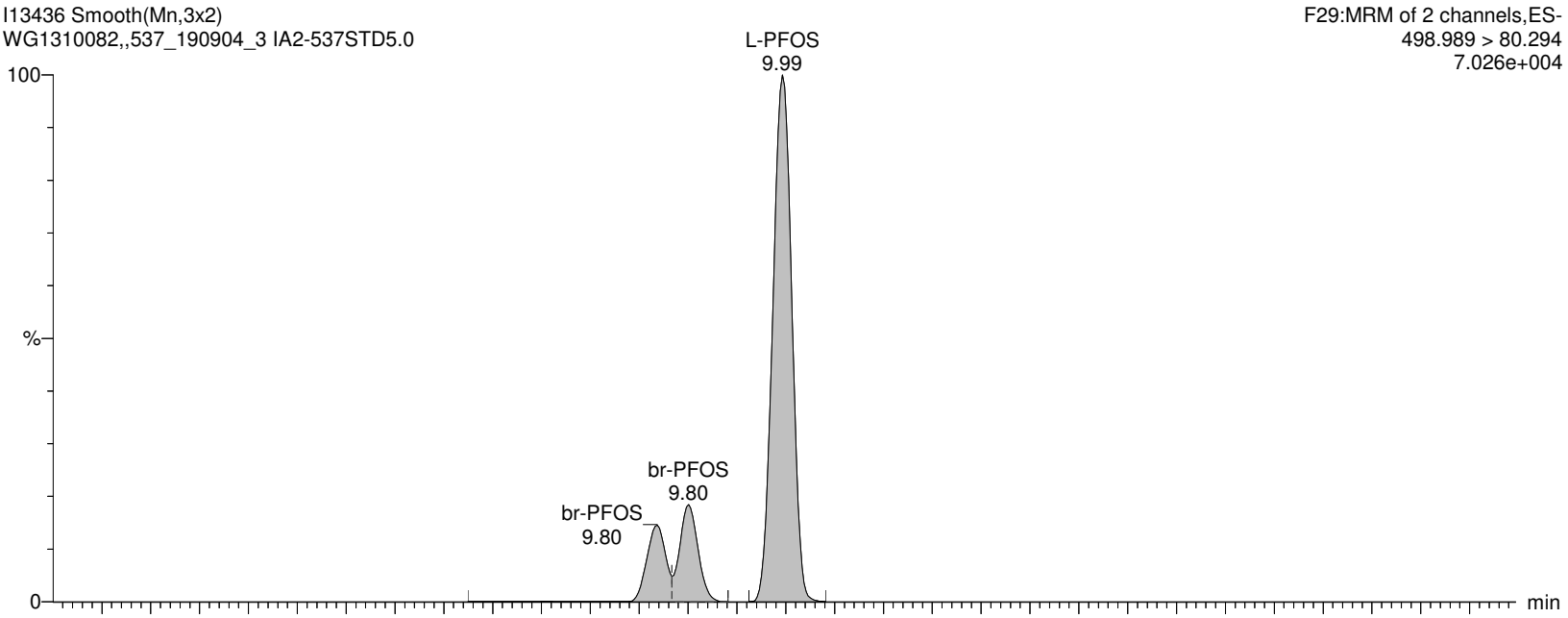

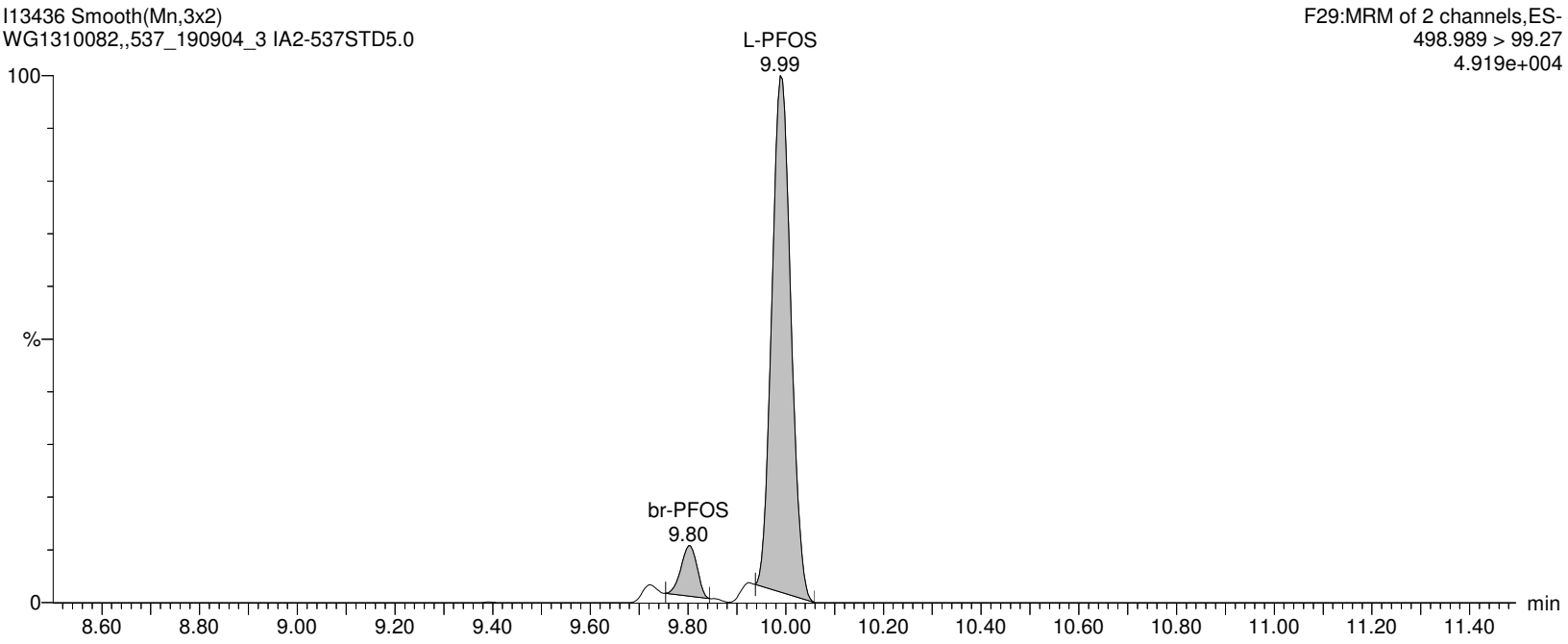

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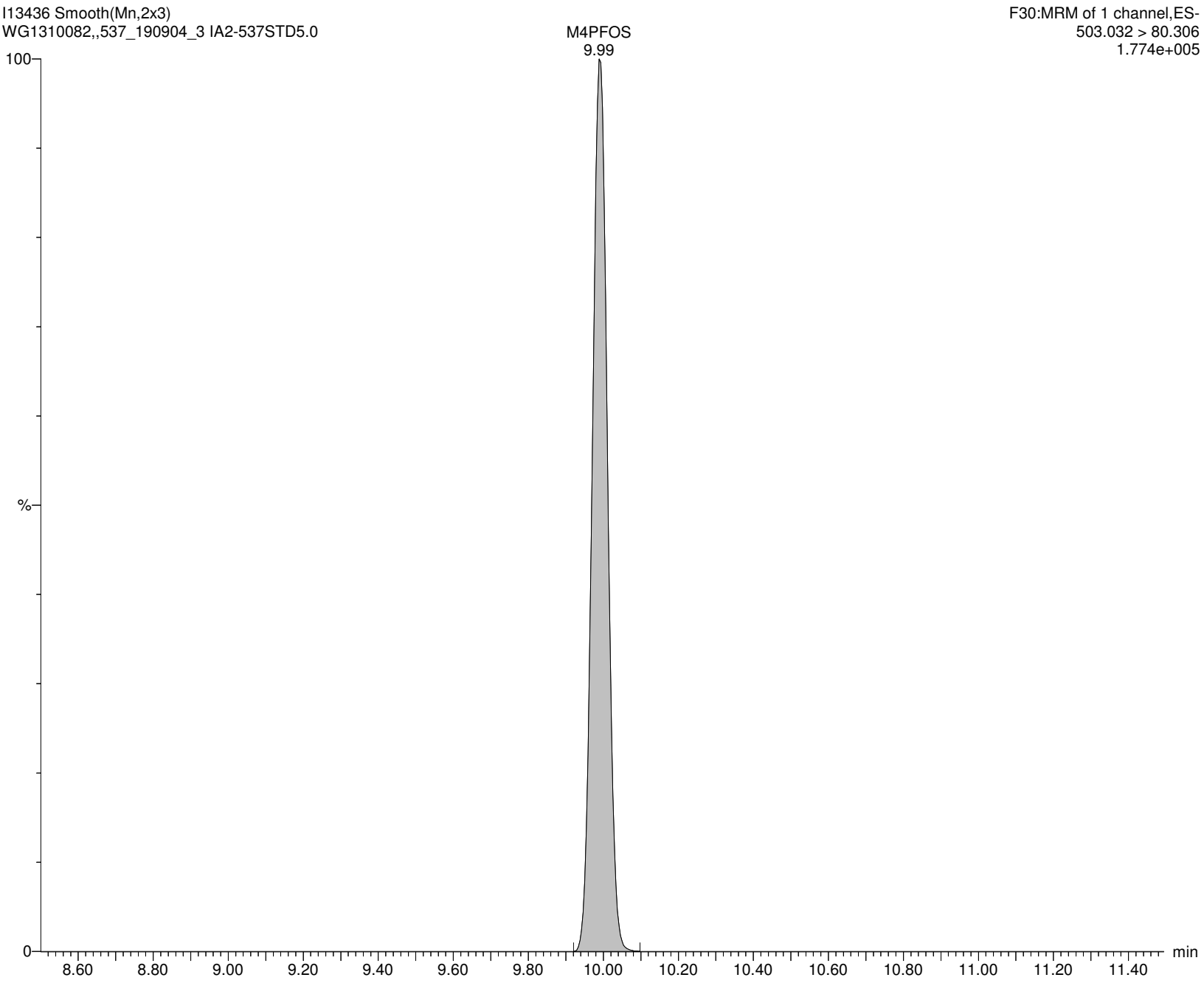

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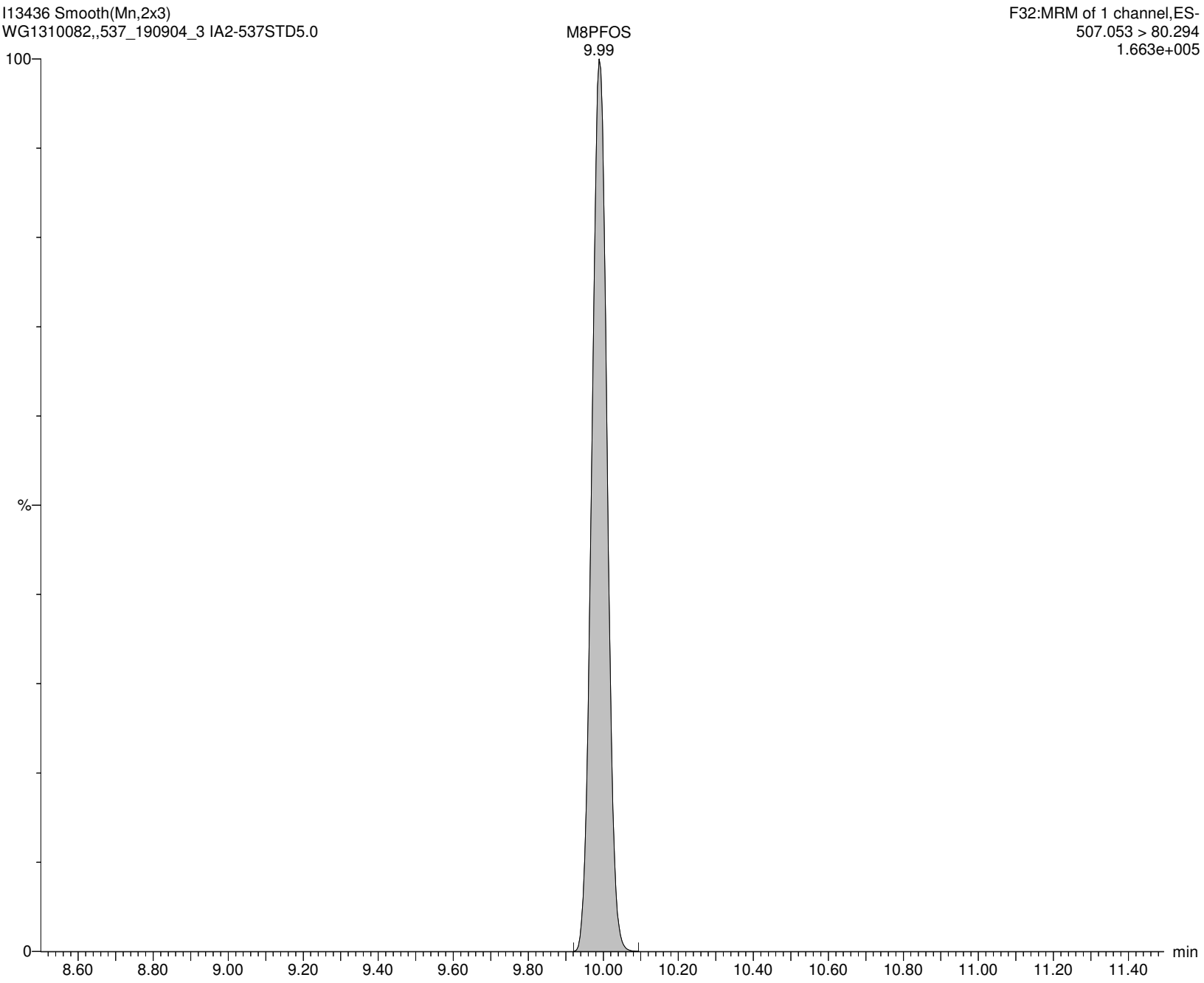

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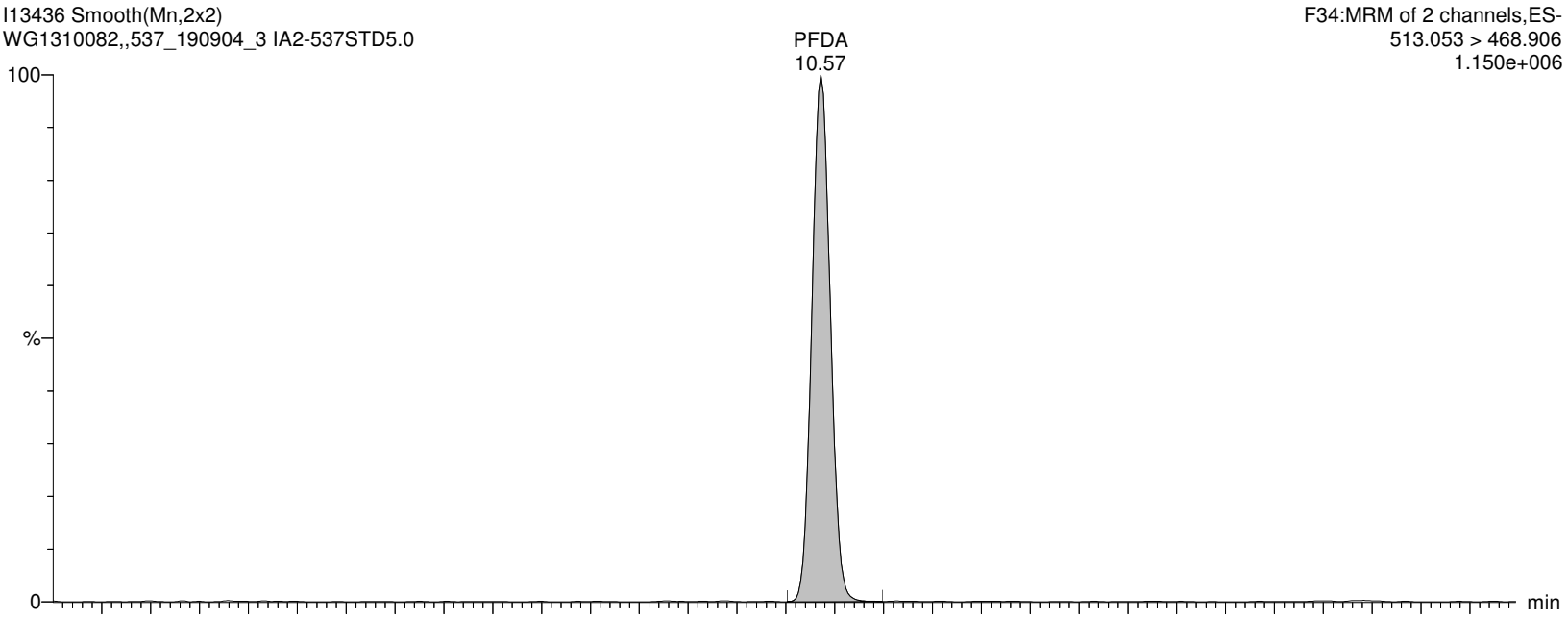

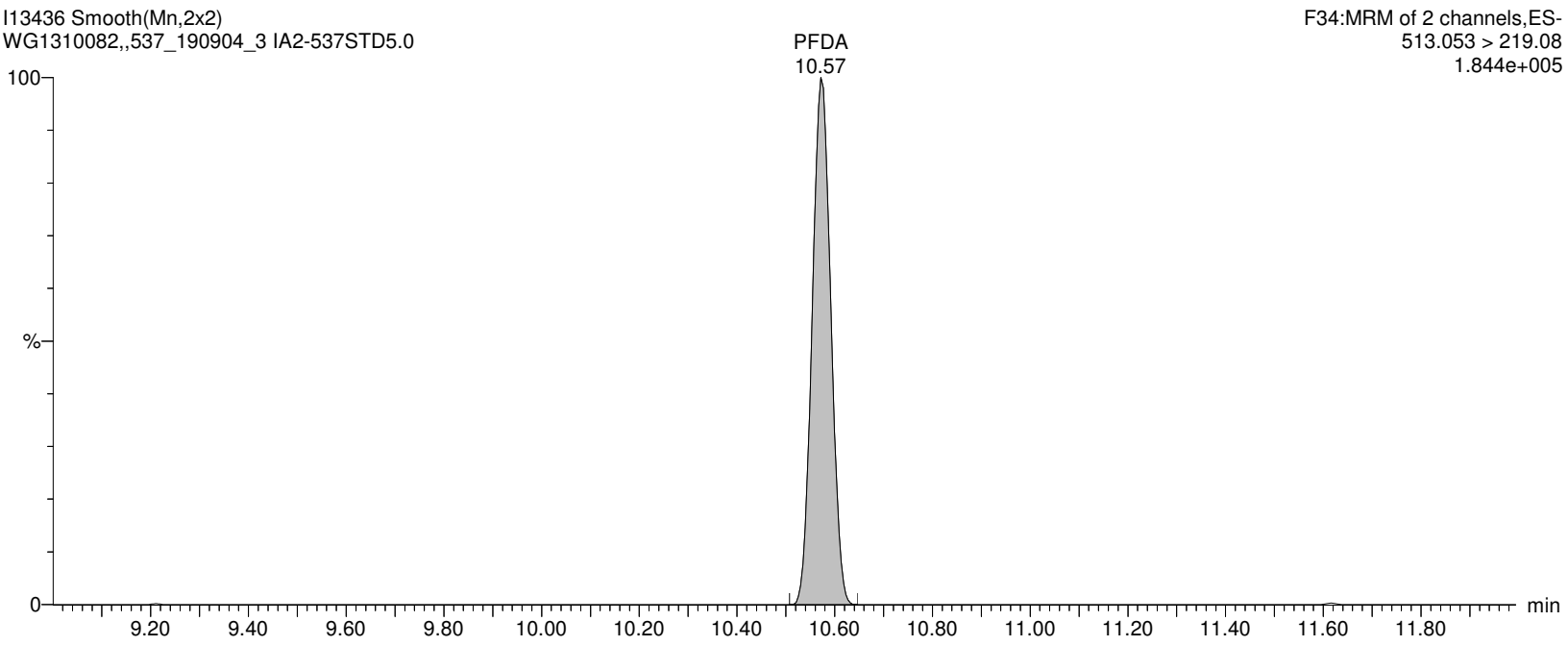

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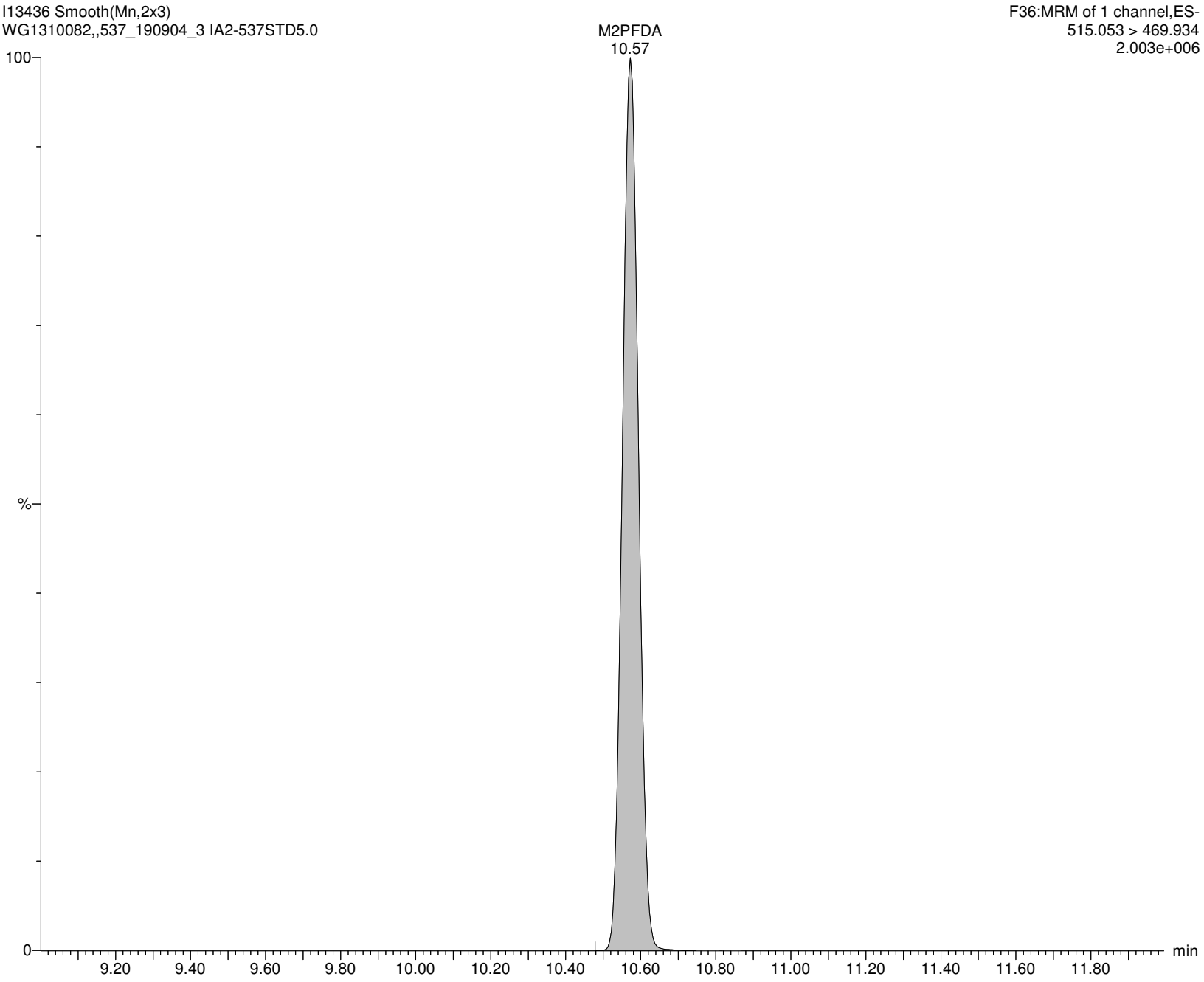

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:52 Eastern Standard Time

Name: I13436
ID: IA2-537STD5.0
Date: 18-Nov-2019
Time: 11:10:20
Description: WG1310082,,537_190904_3
User: LCMS02:JW
Vial: 1:A,4
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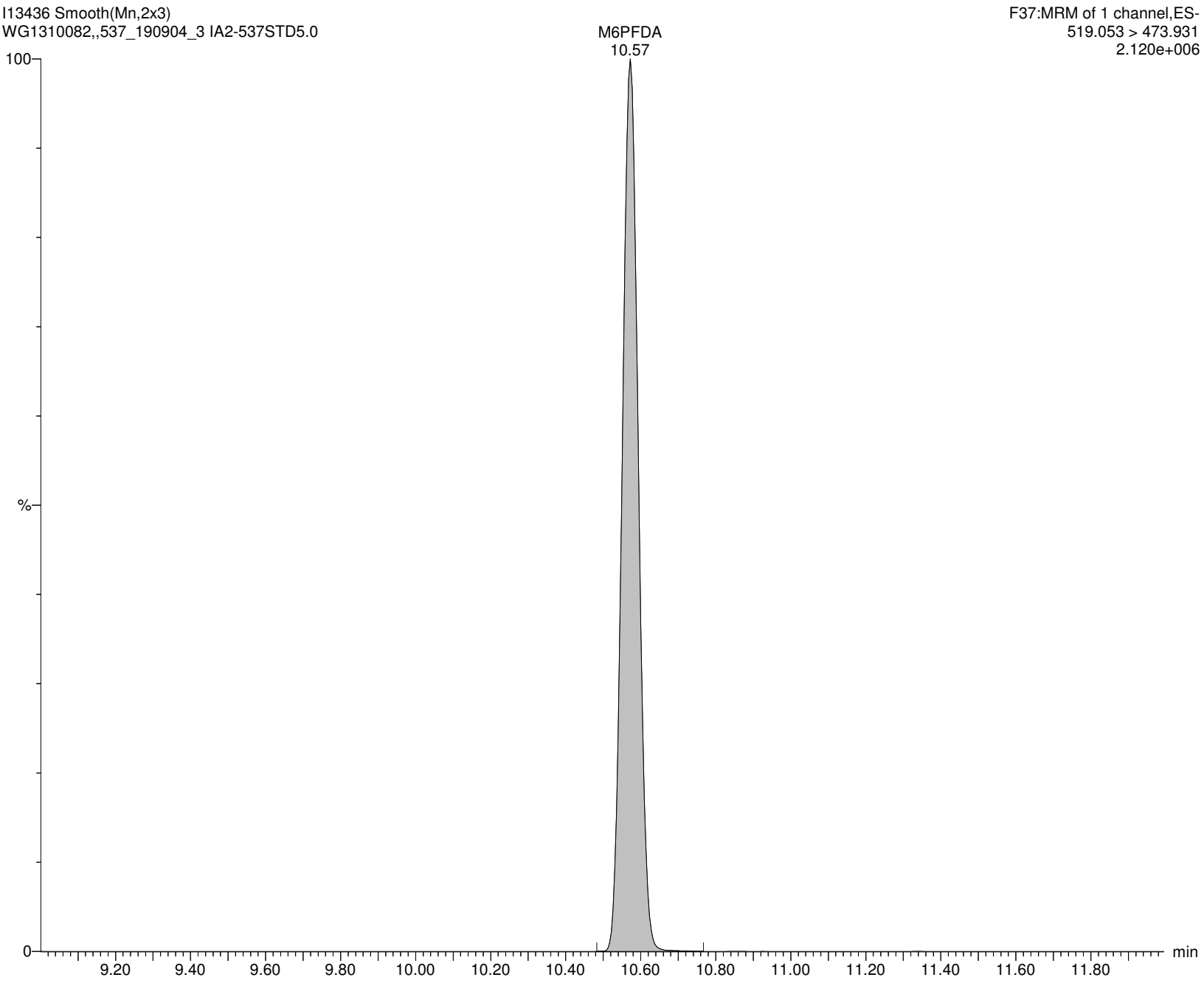

all concentration units in (ng/mL)

Alpha Analytical Inc.
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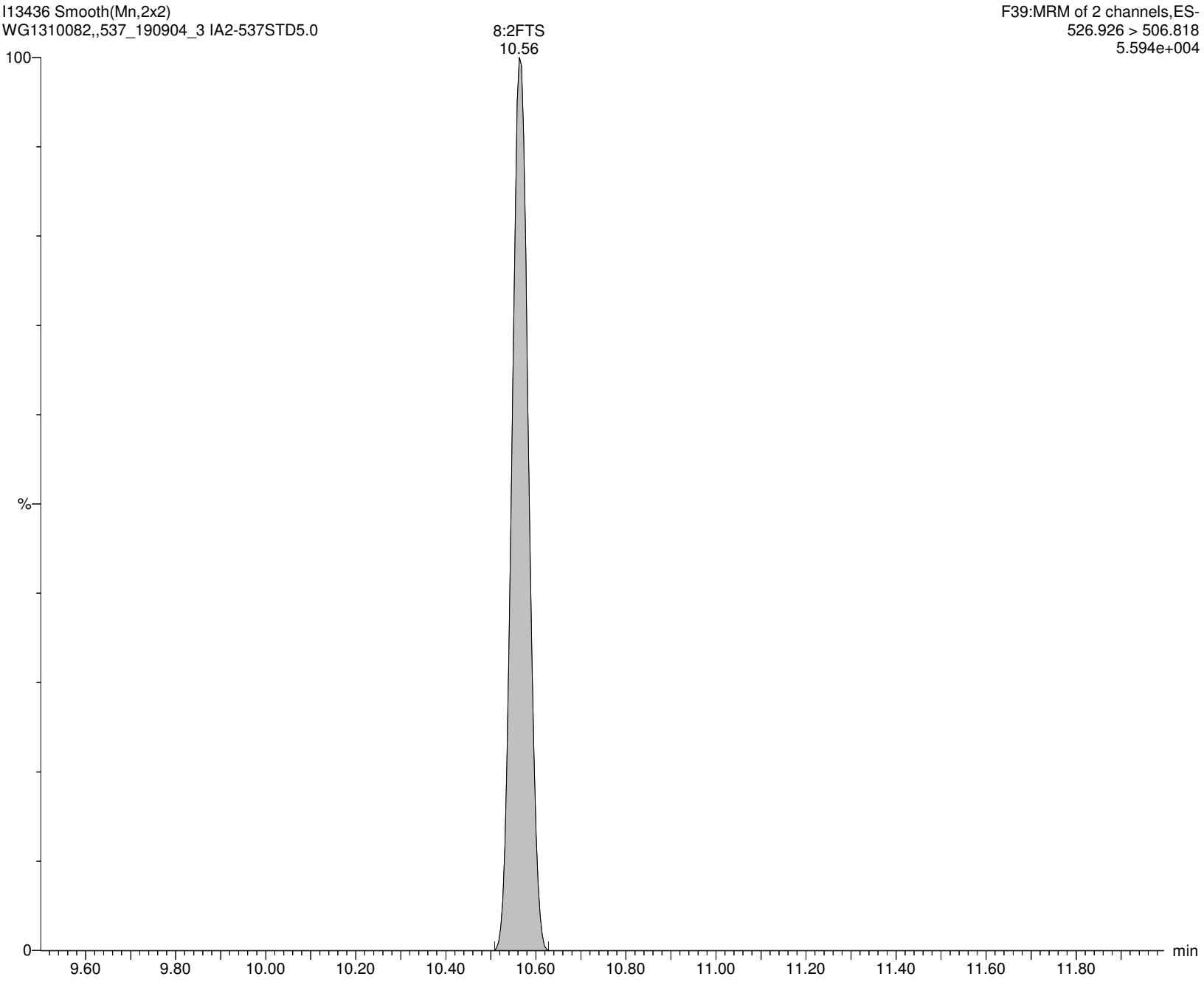
8:2FTS



all concentration units in (ng/mL)

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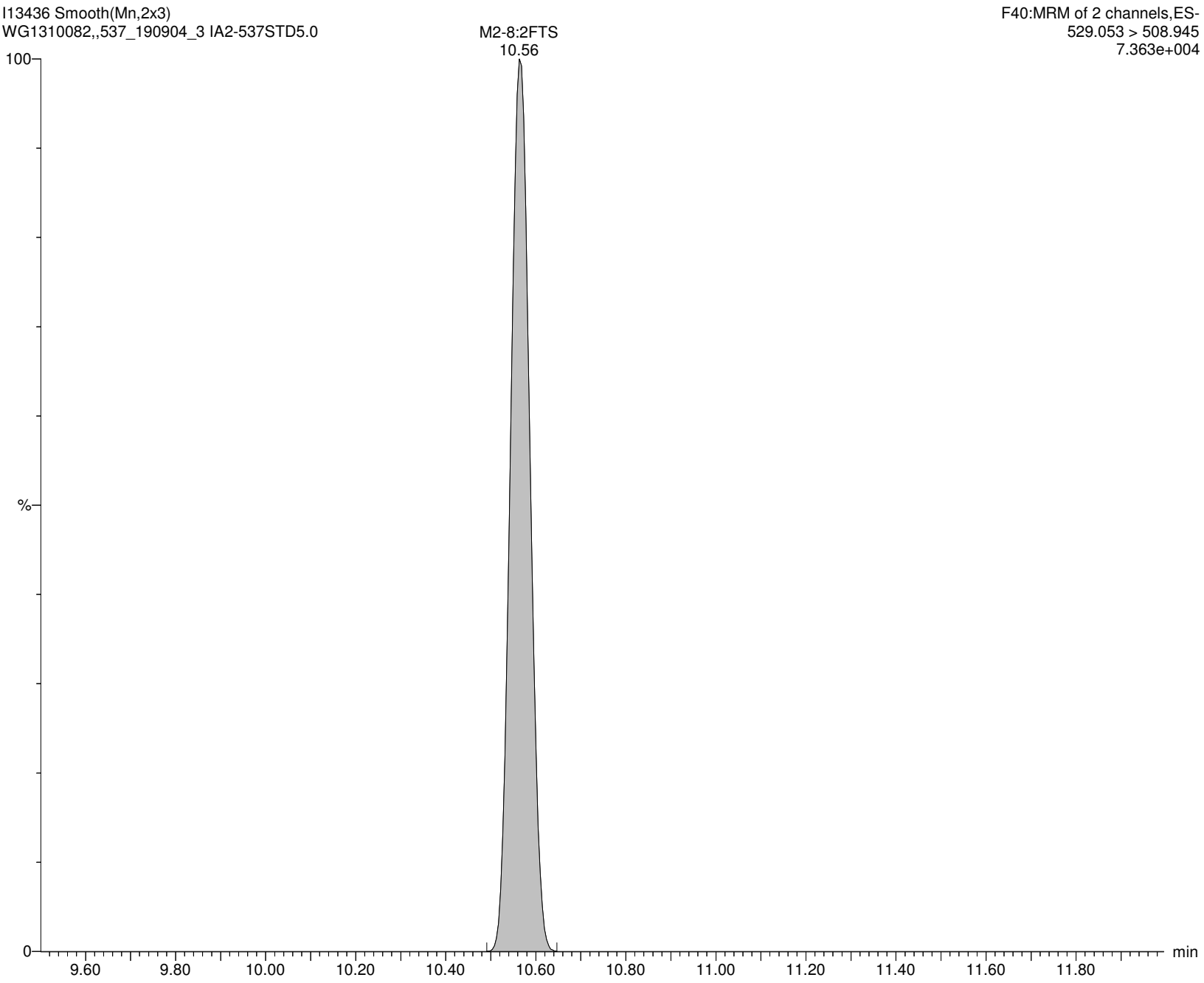

all concentration units in (ng/mL)

Alpha Analytical Inc.
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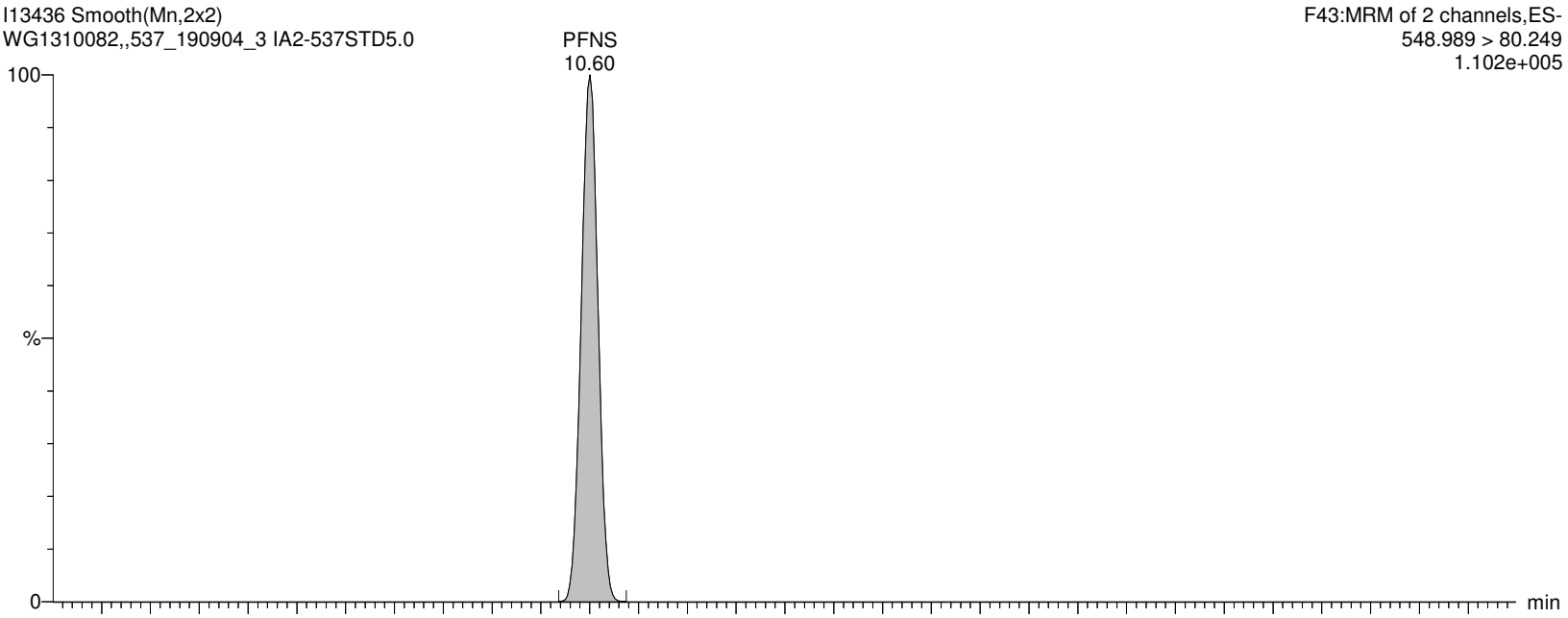

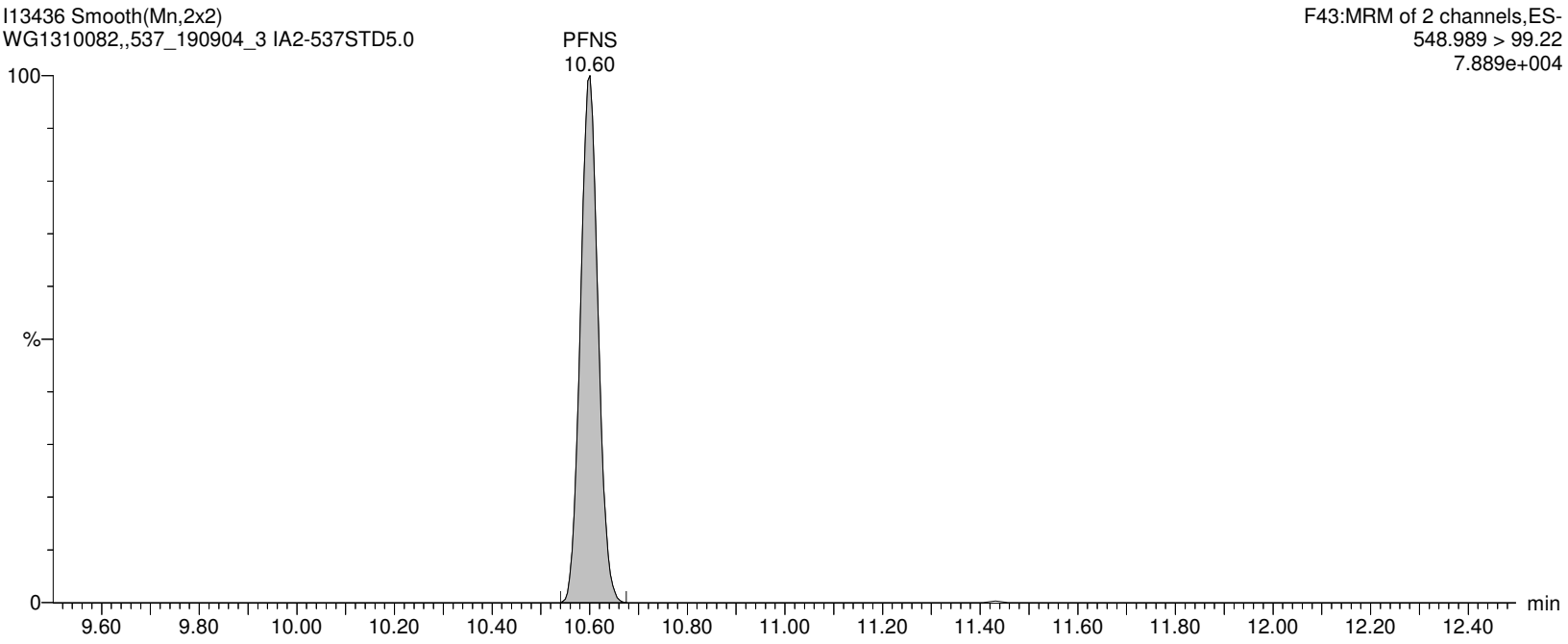

all concentration units in (ng/mL)

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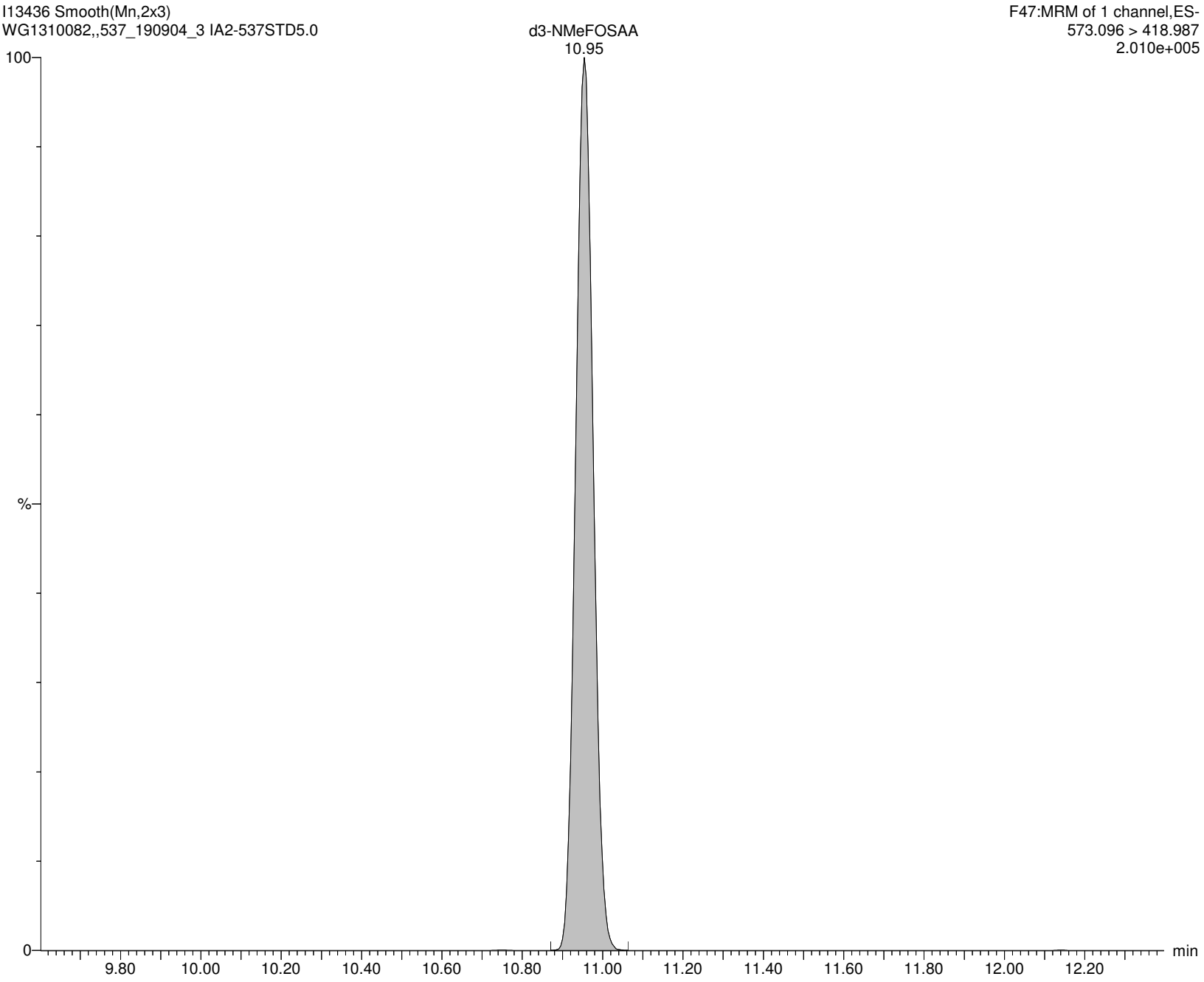
d3-NMeFOSAA



all concentration units in (ng/mL)

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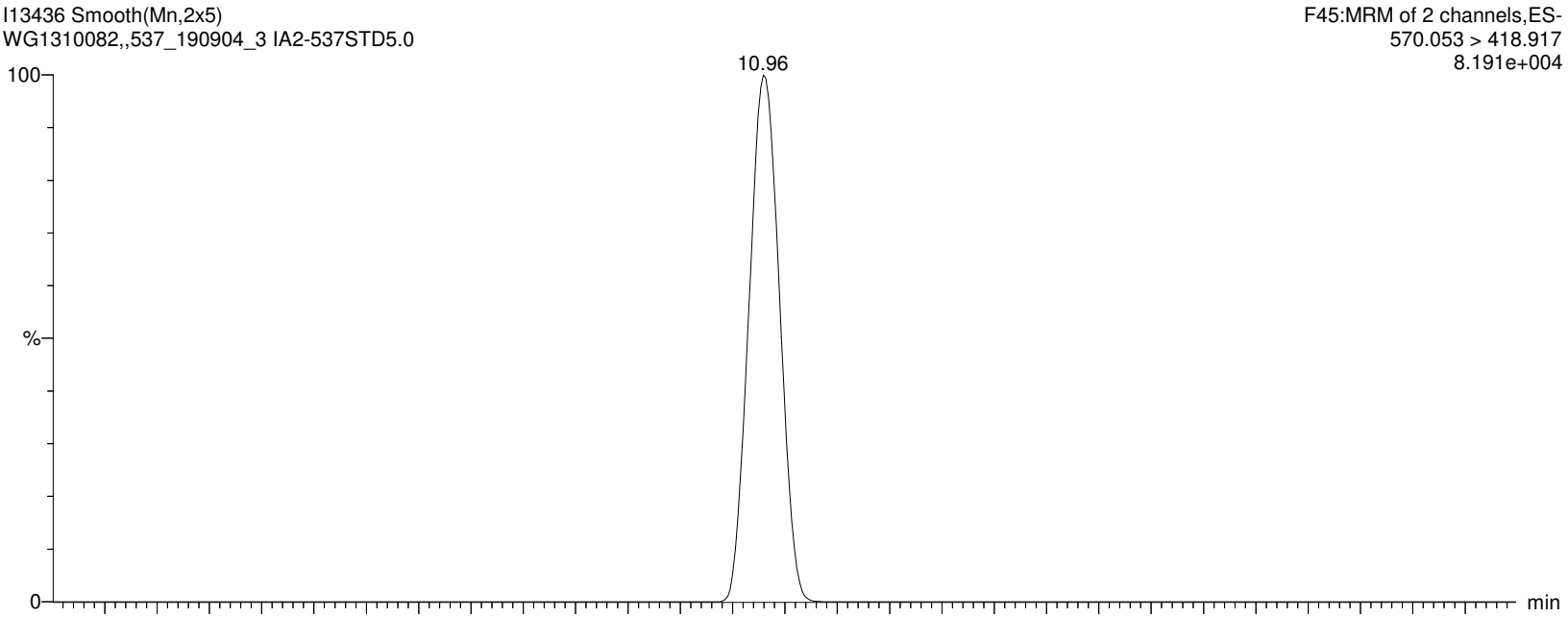

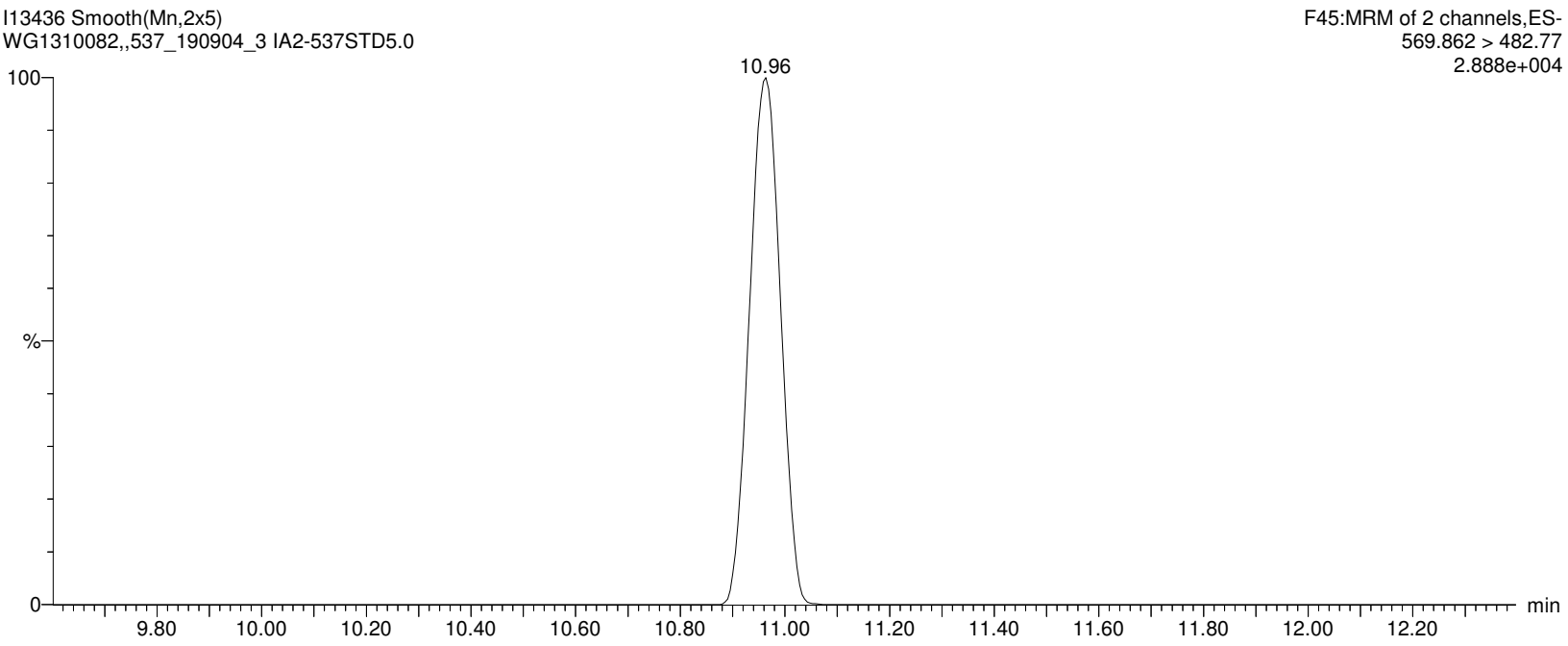

all concentration units in (ng/mL)

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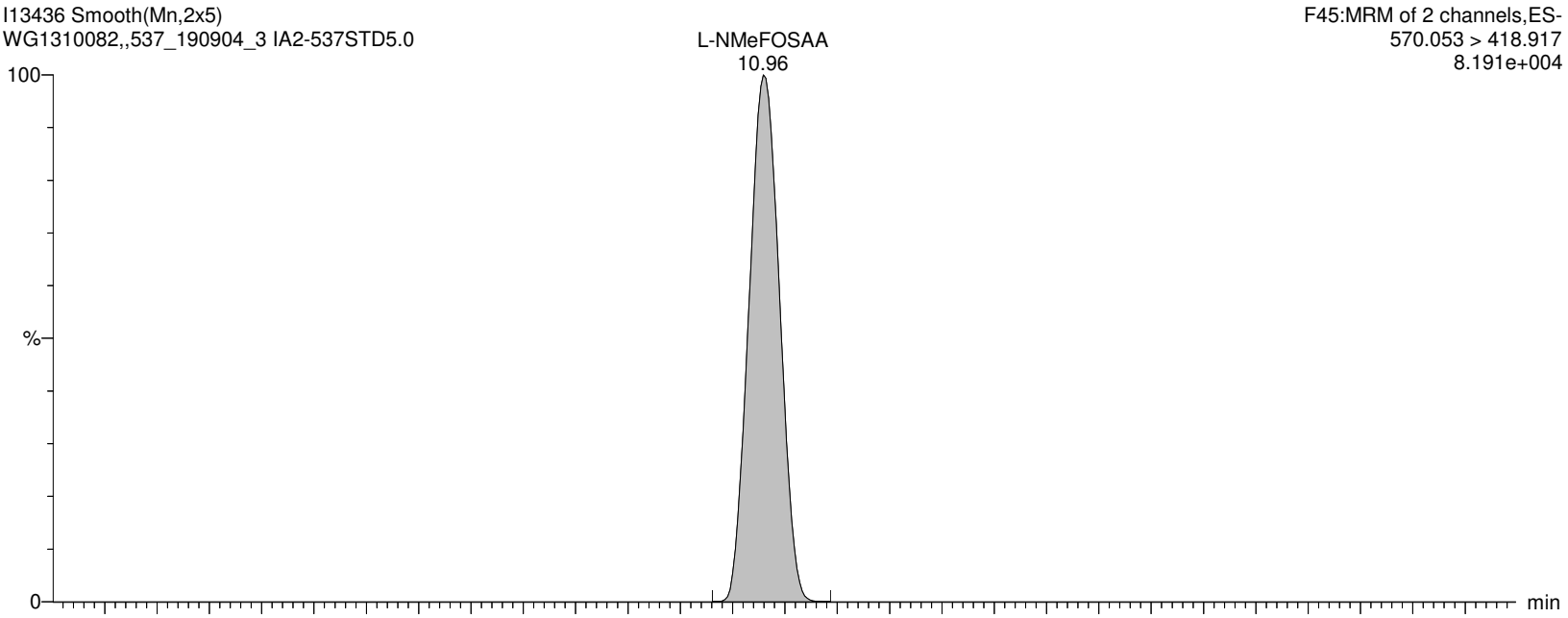
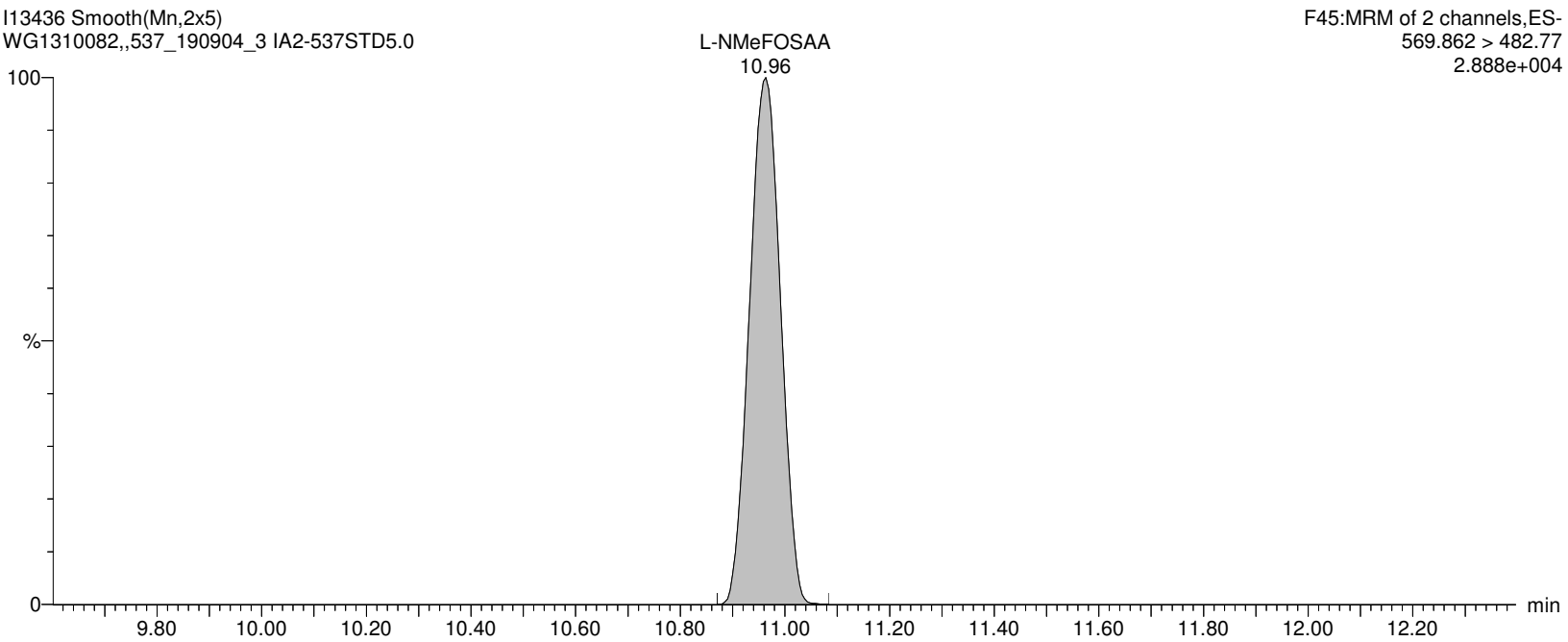
L-NMeFOSAA





all concentration units in (ng/mL)

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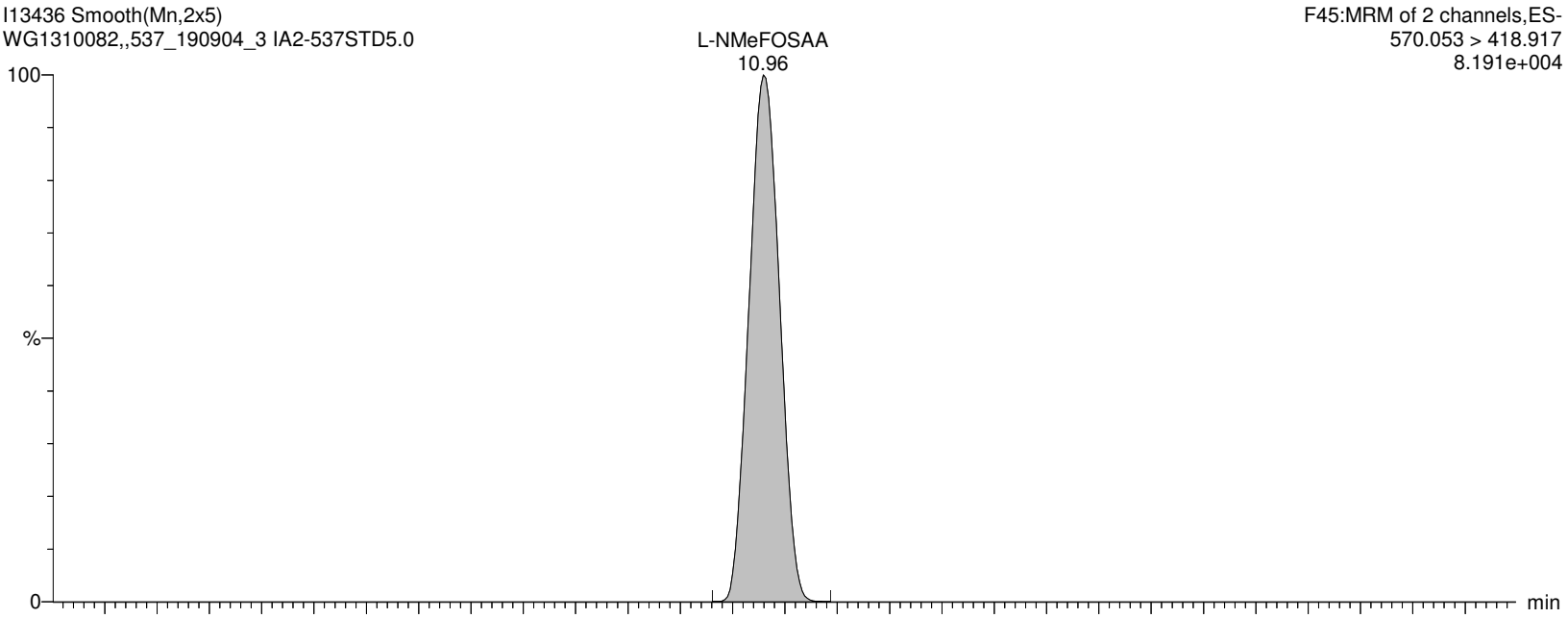

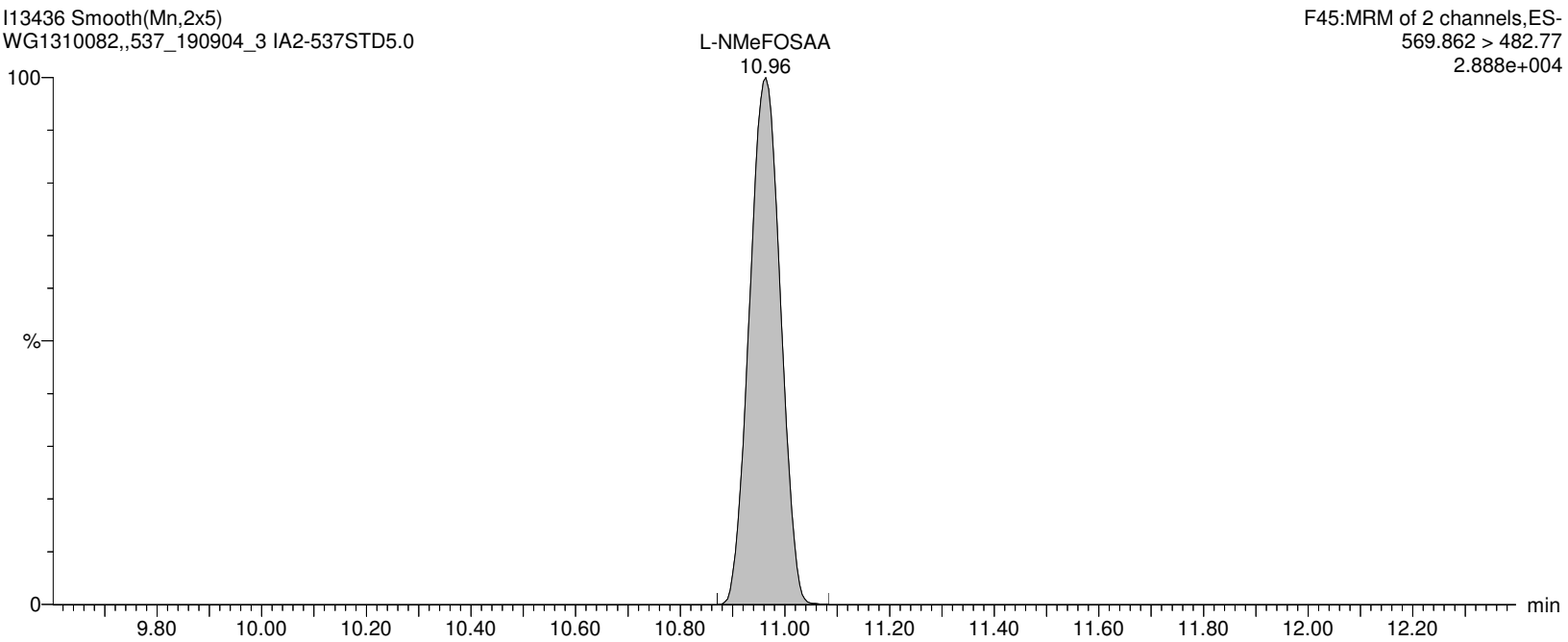

all concentration units in (ng/mL)

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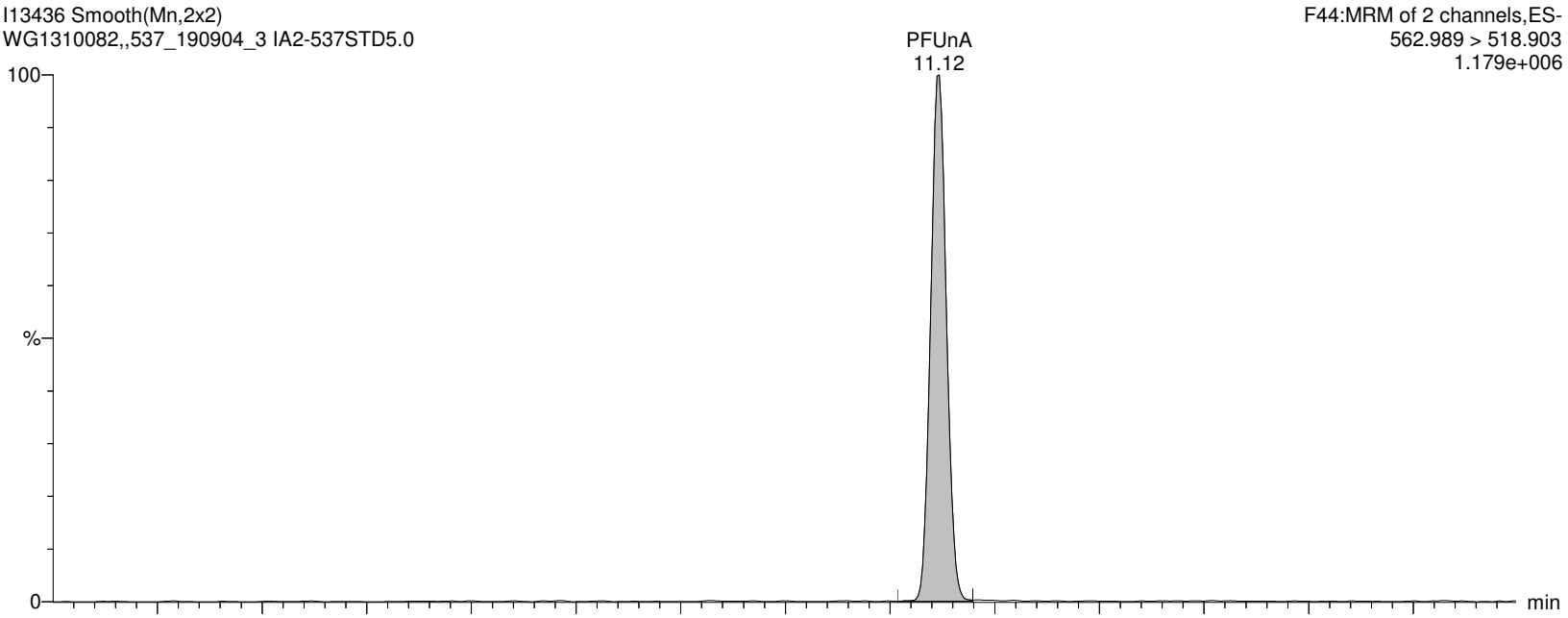

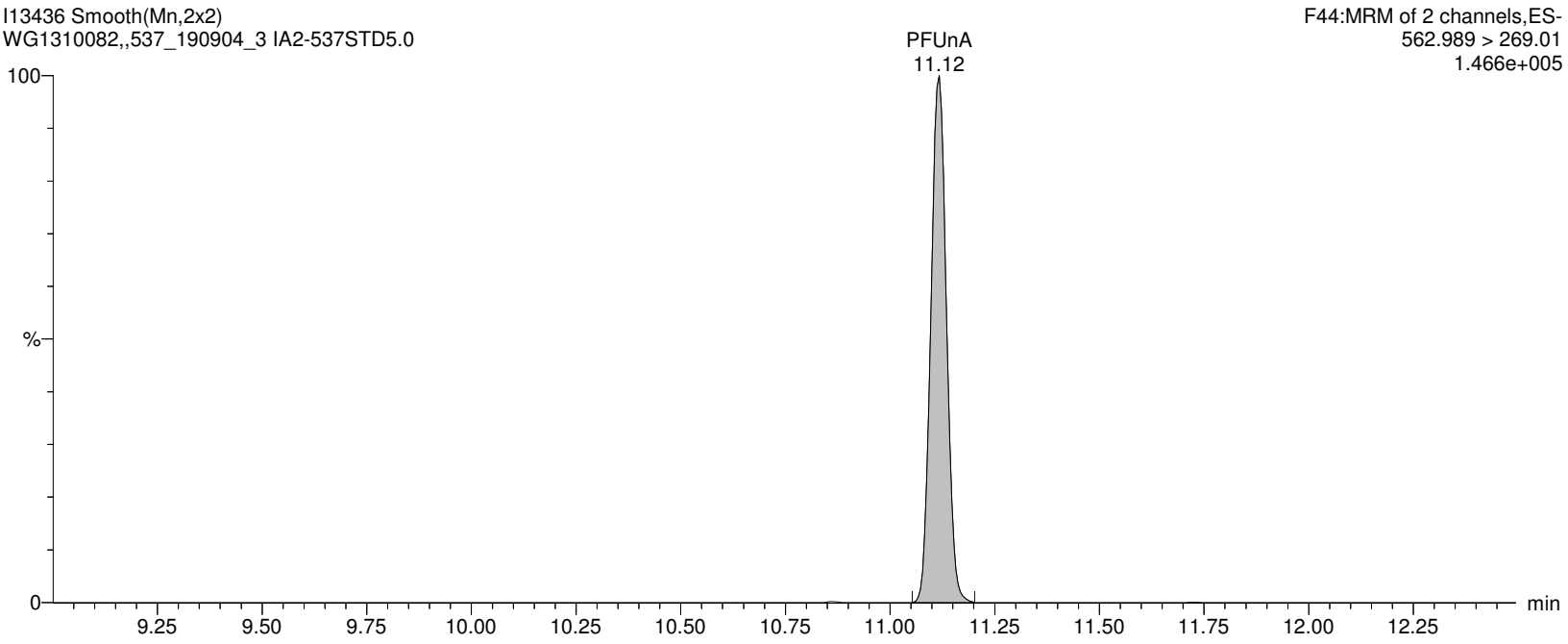

all concentration units in (ng/mL)

Alpha Analytical Inc.
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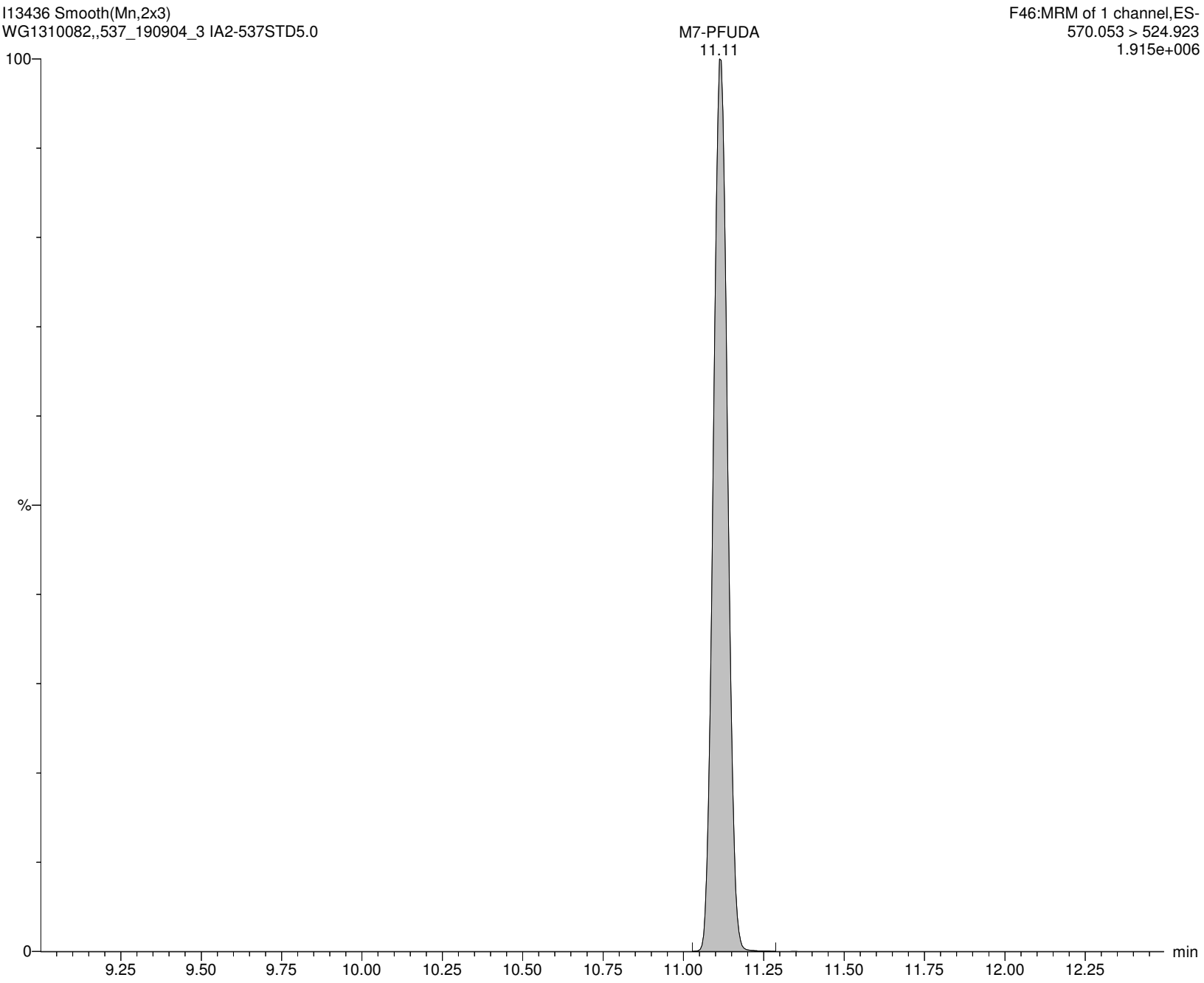
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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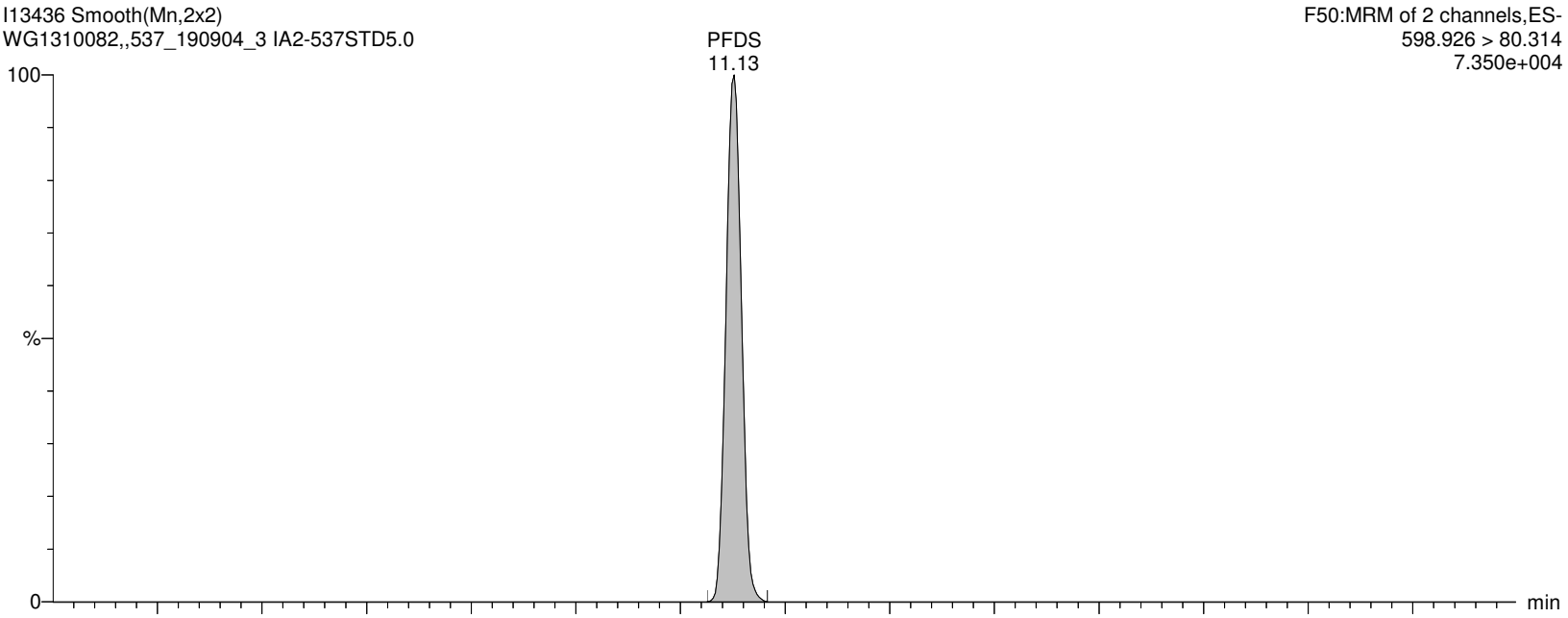
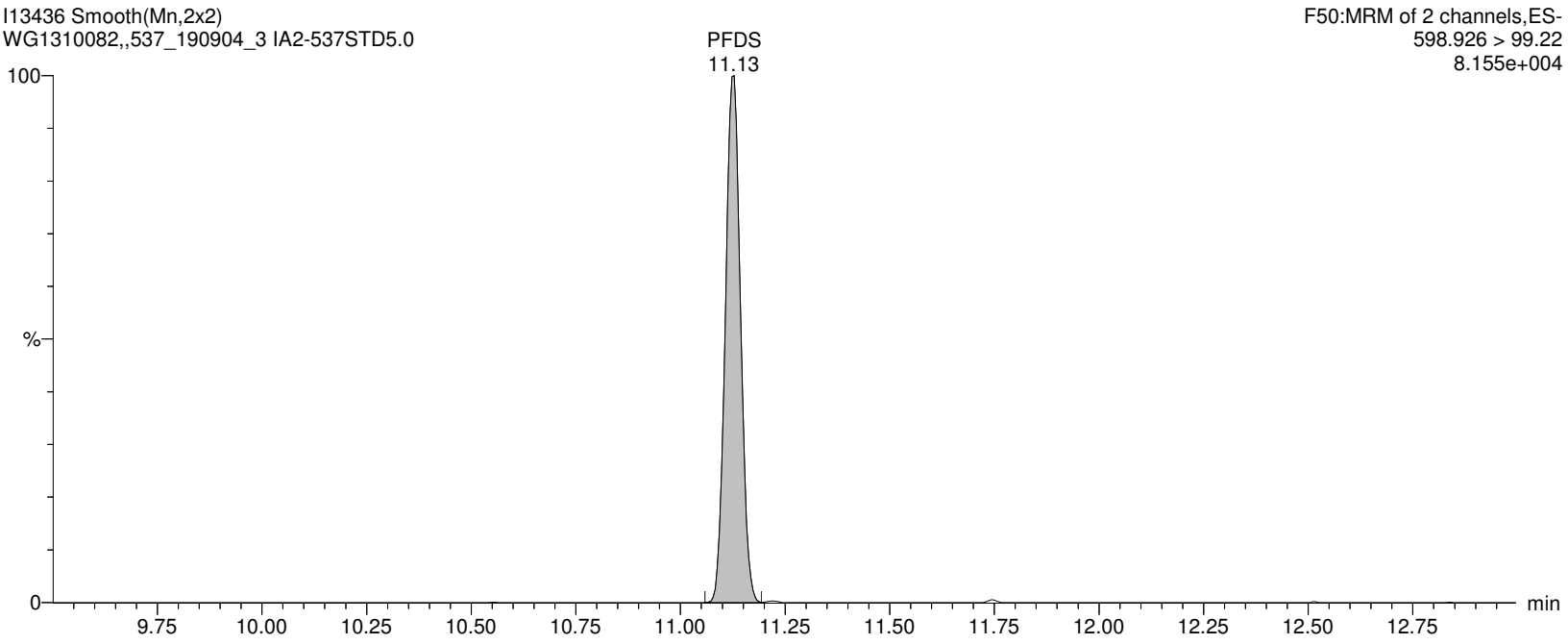
PFDS





all concentration units in (ng/mL)

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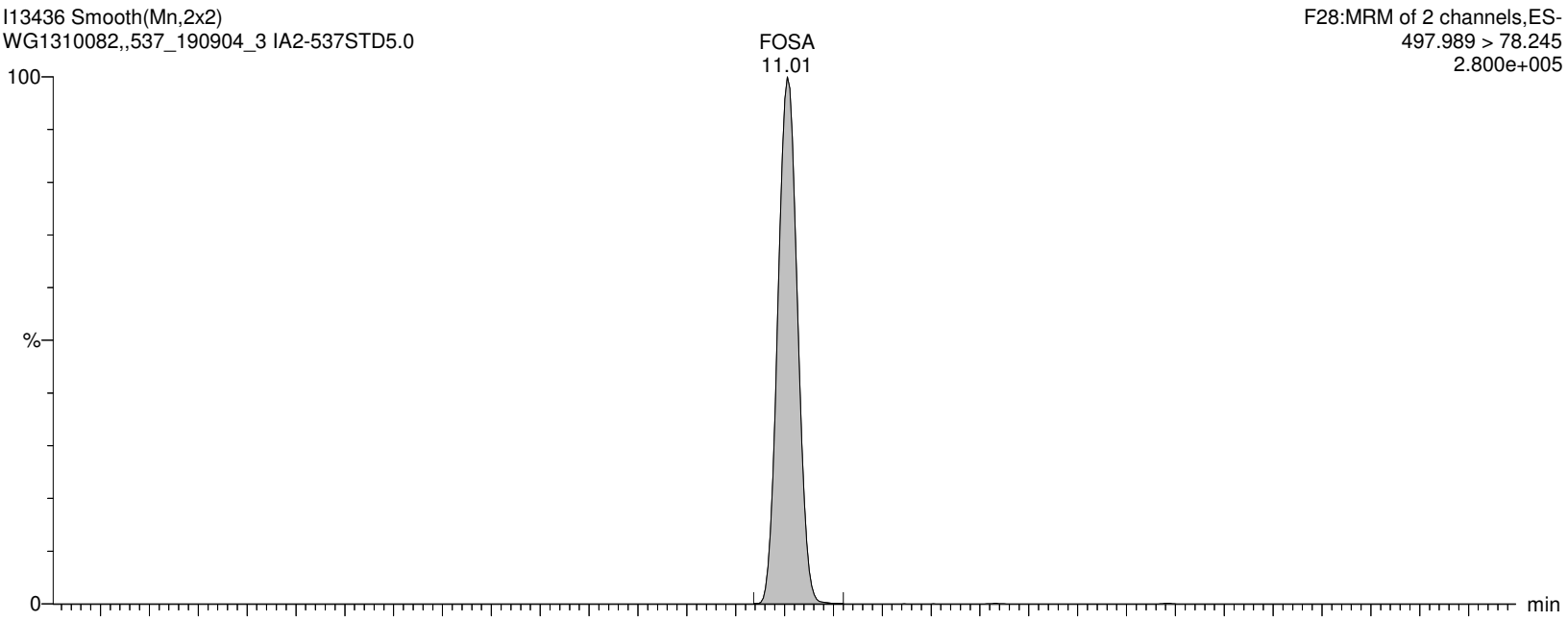

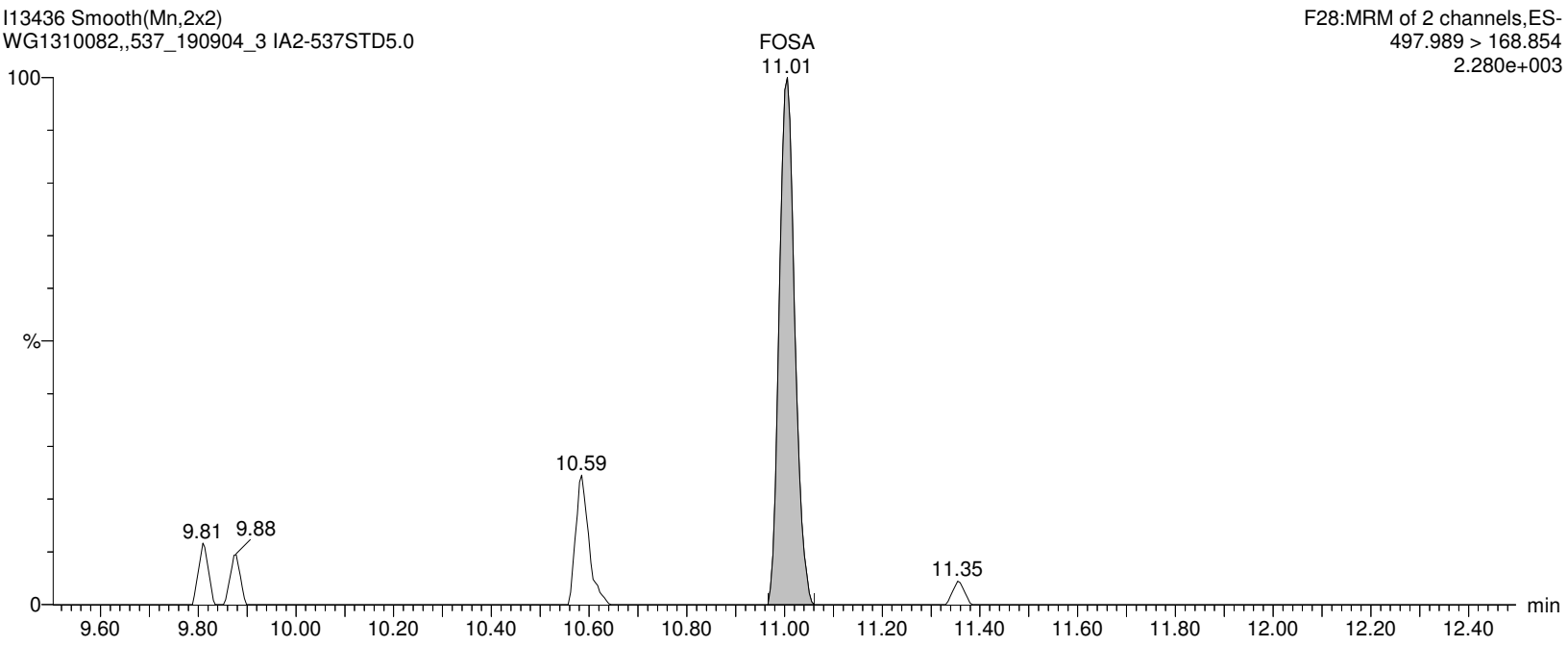

all concentration units in (ng/mL)

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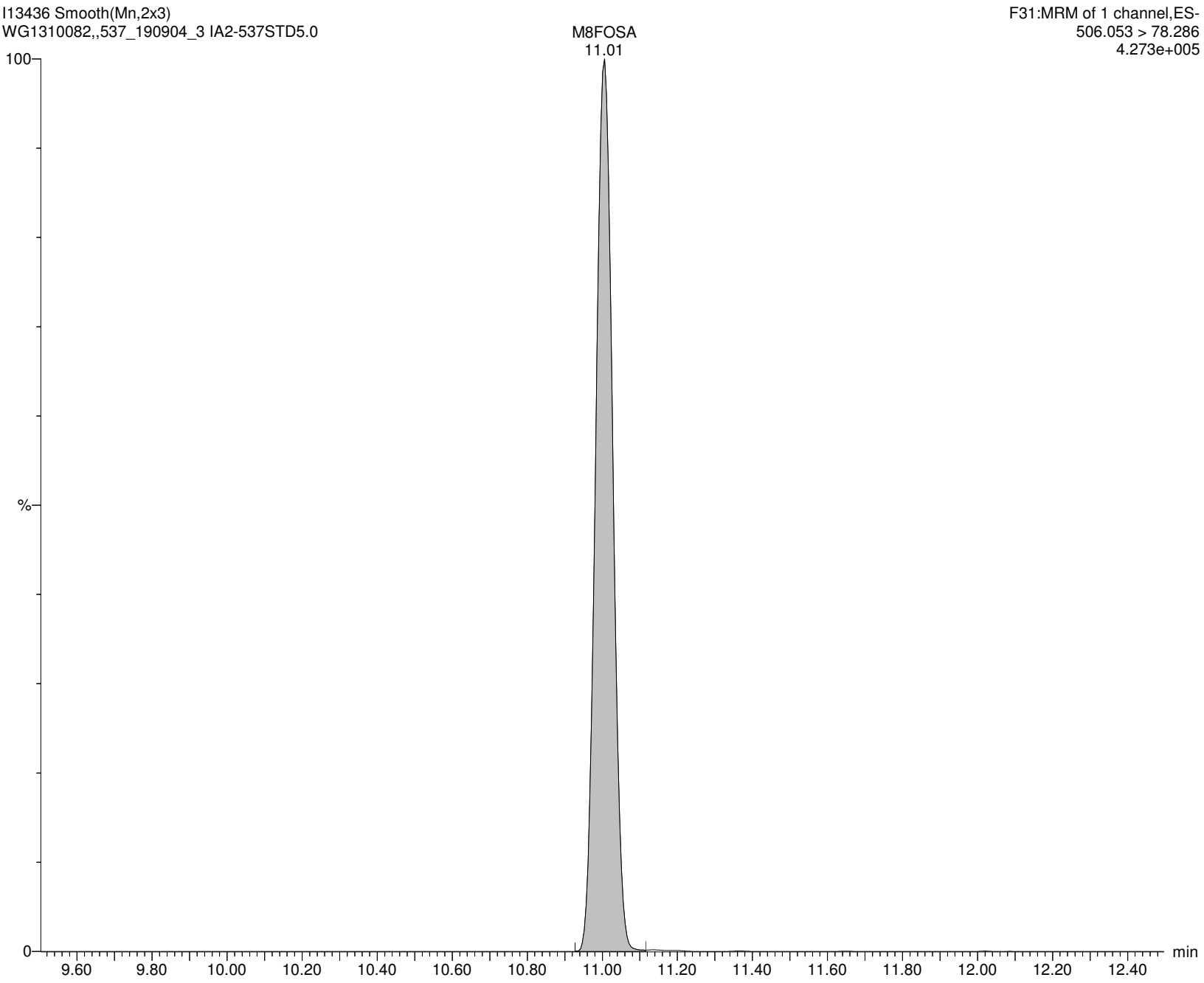

all concentration units in (ng/mL)

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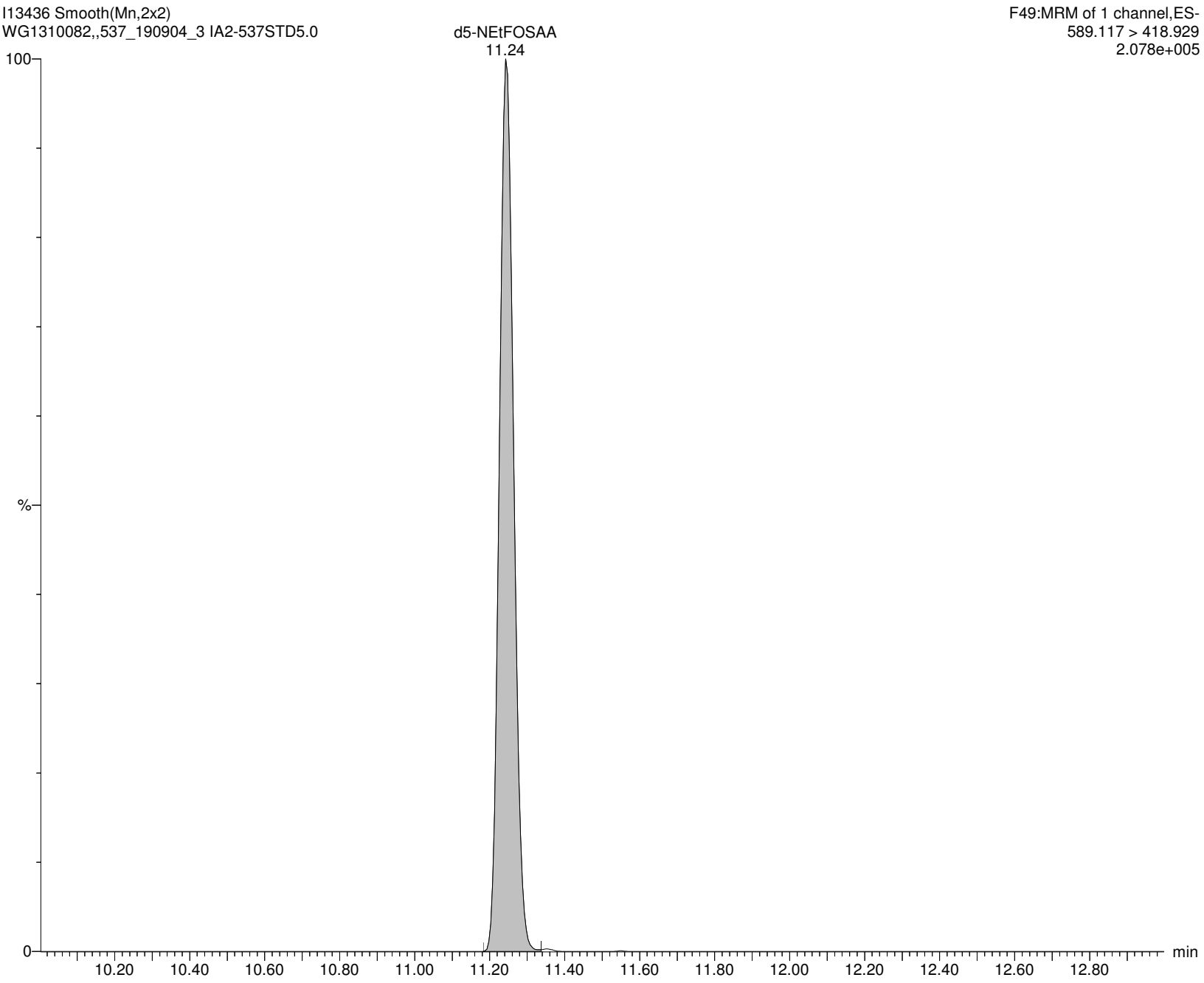
d5-NEtFOSAA



all concentration units in (ng/mL)

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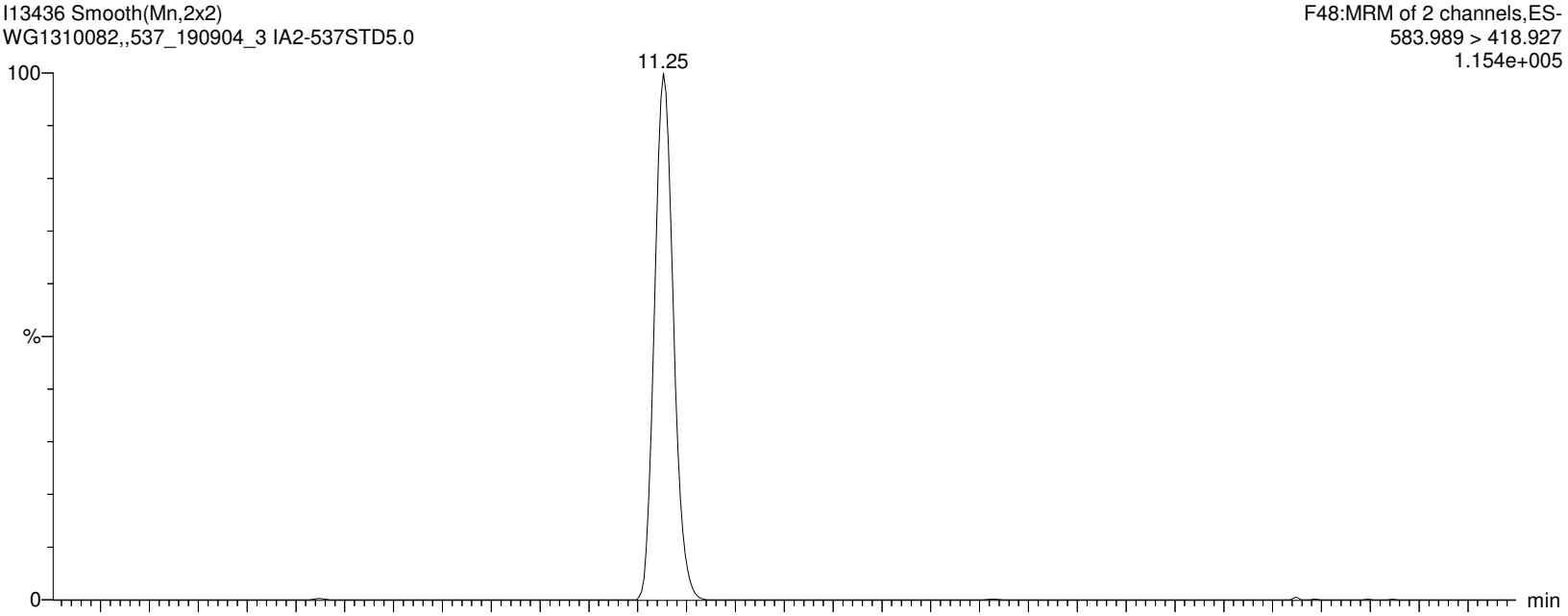

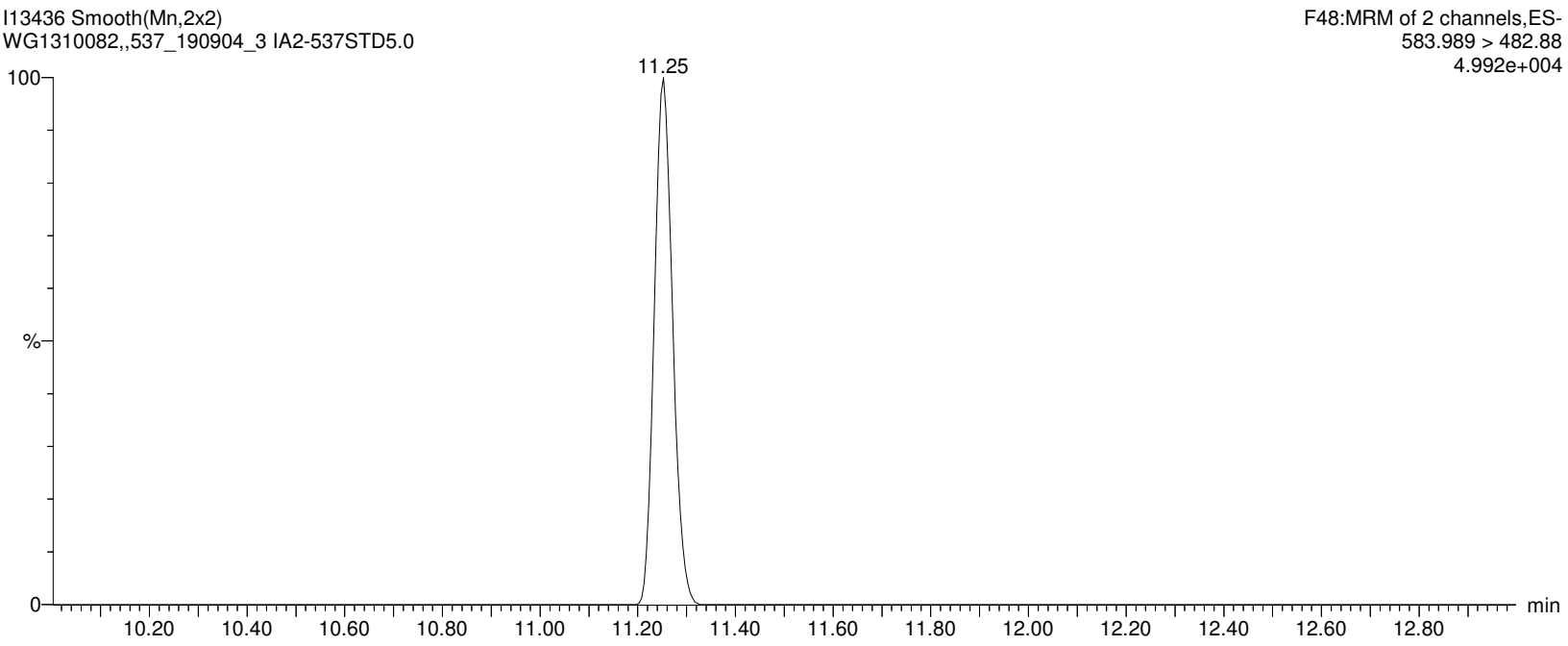

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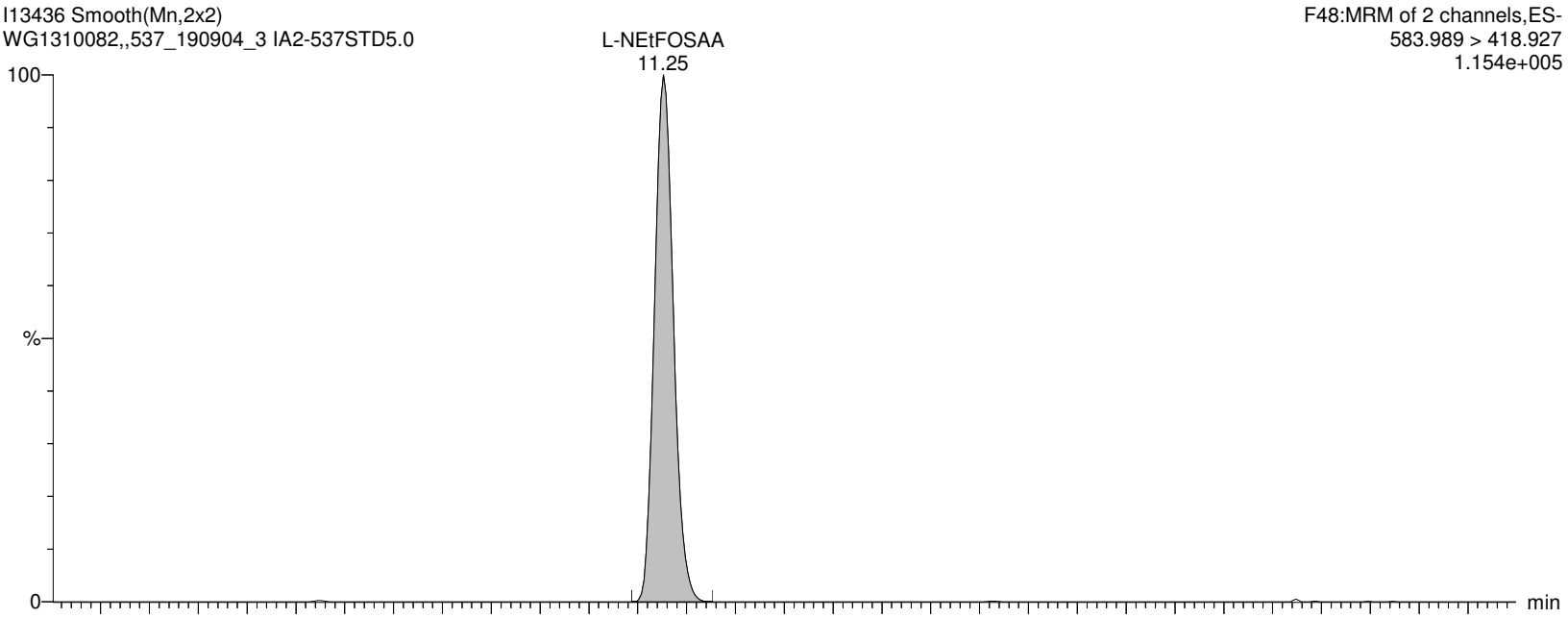

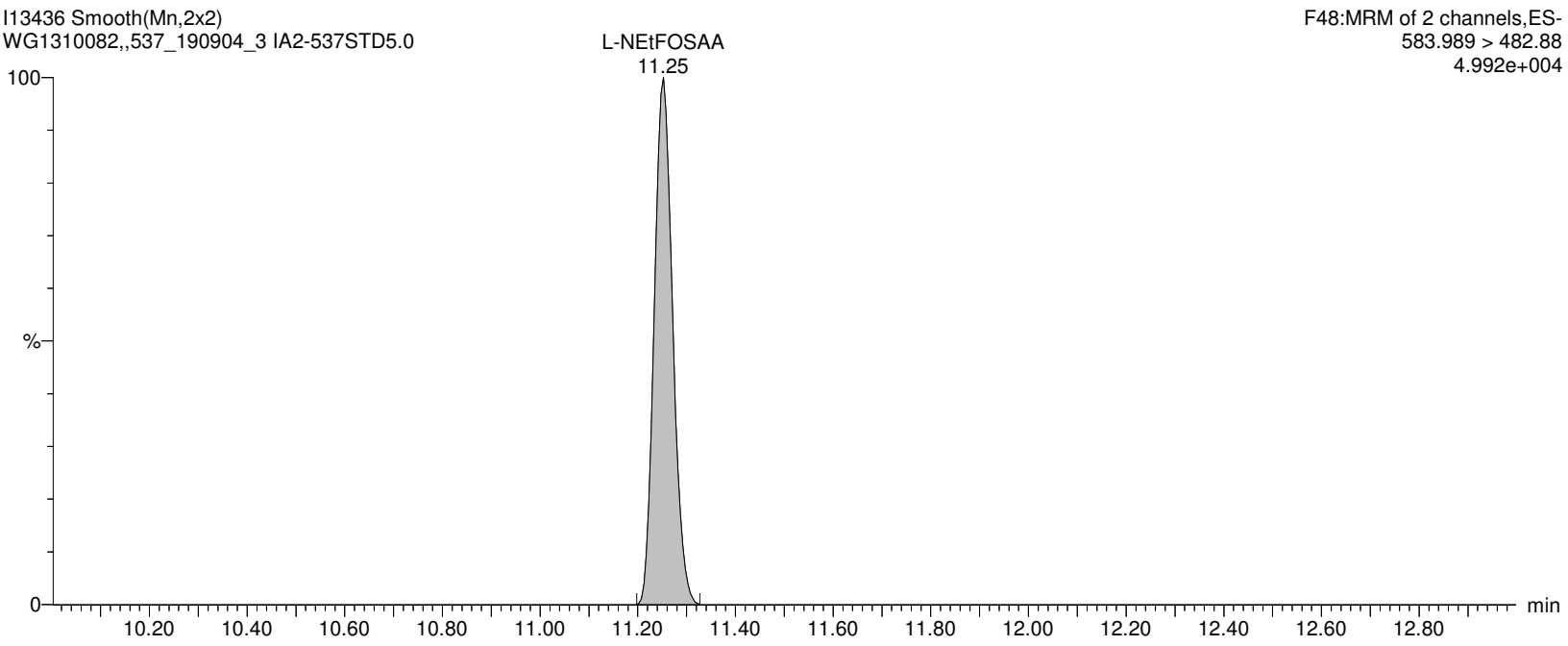

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:52 Eastern Standard Time

Name: I13436
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Date: 18-Nov-2019
Time: 11:10:20
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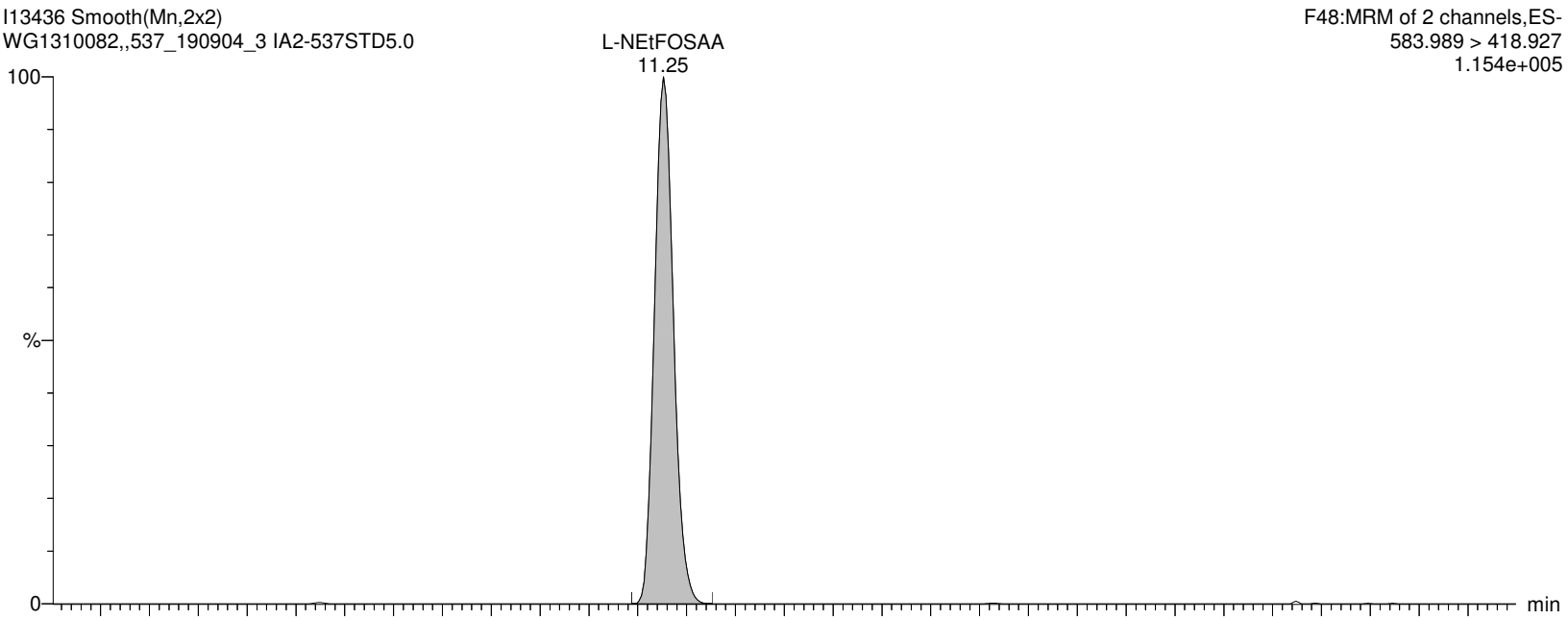

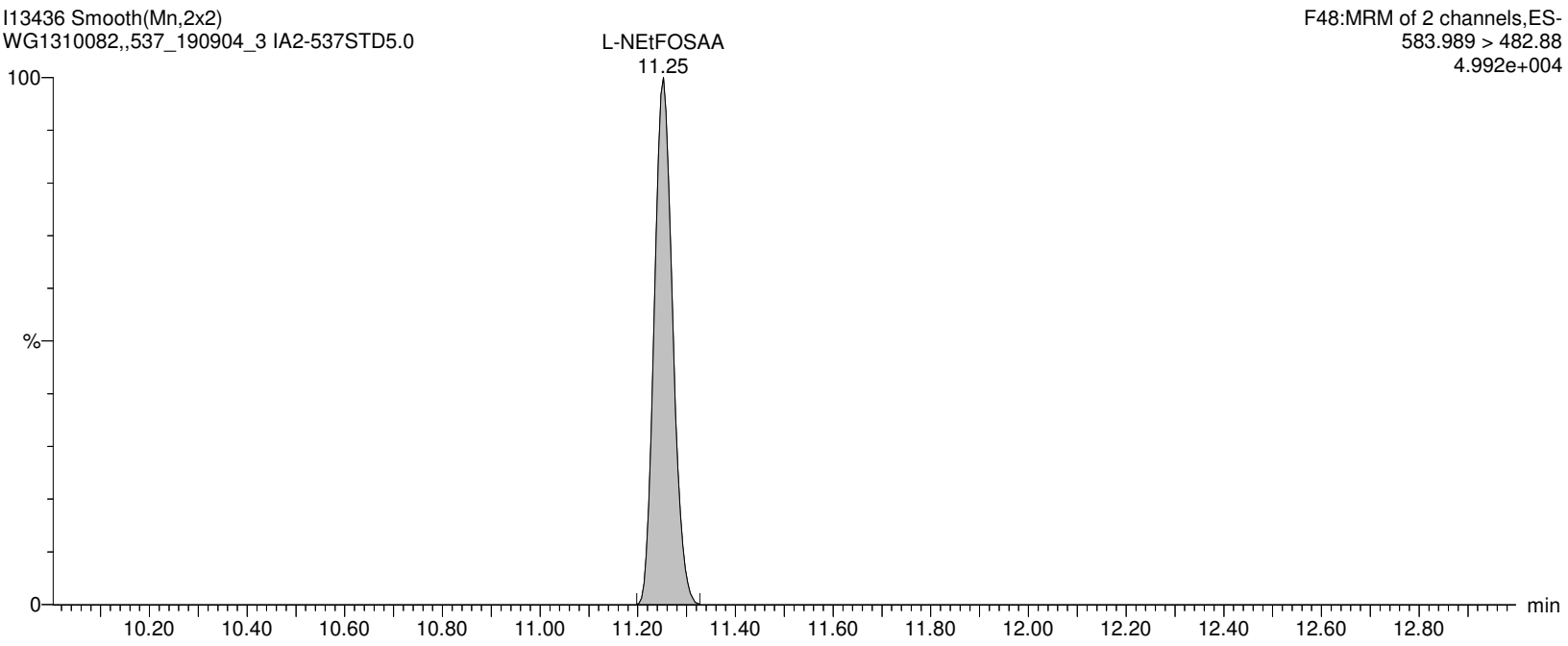

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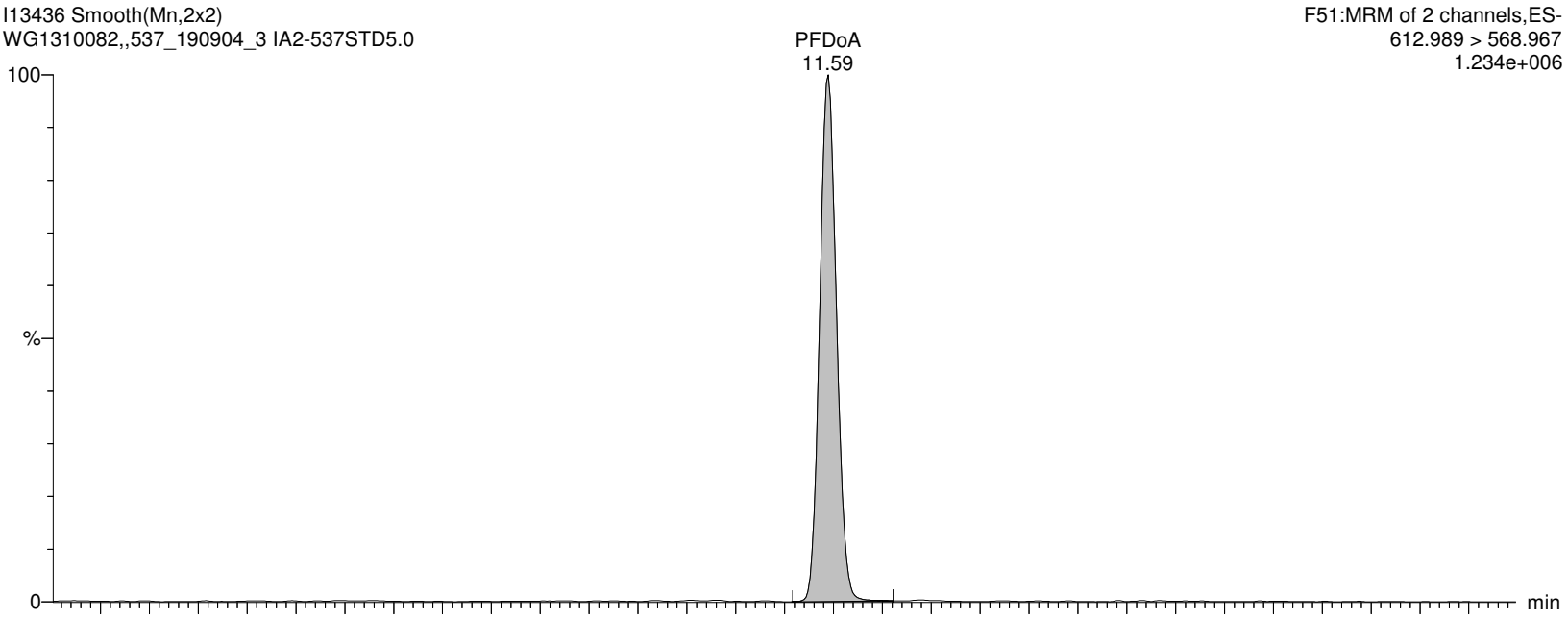

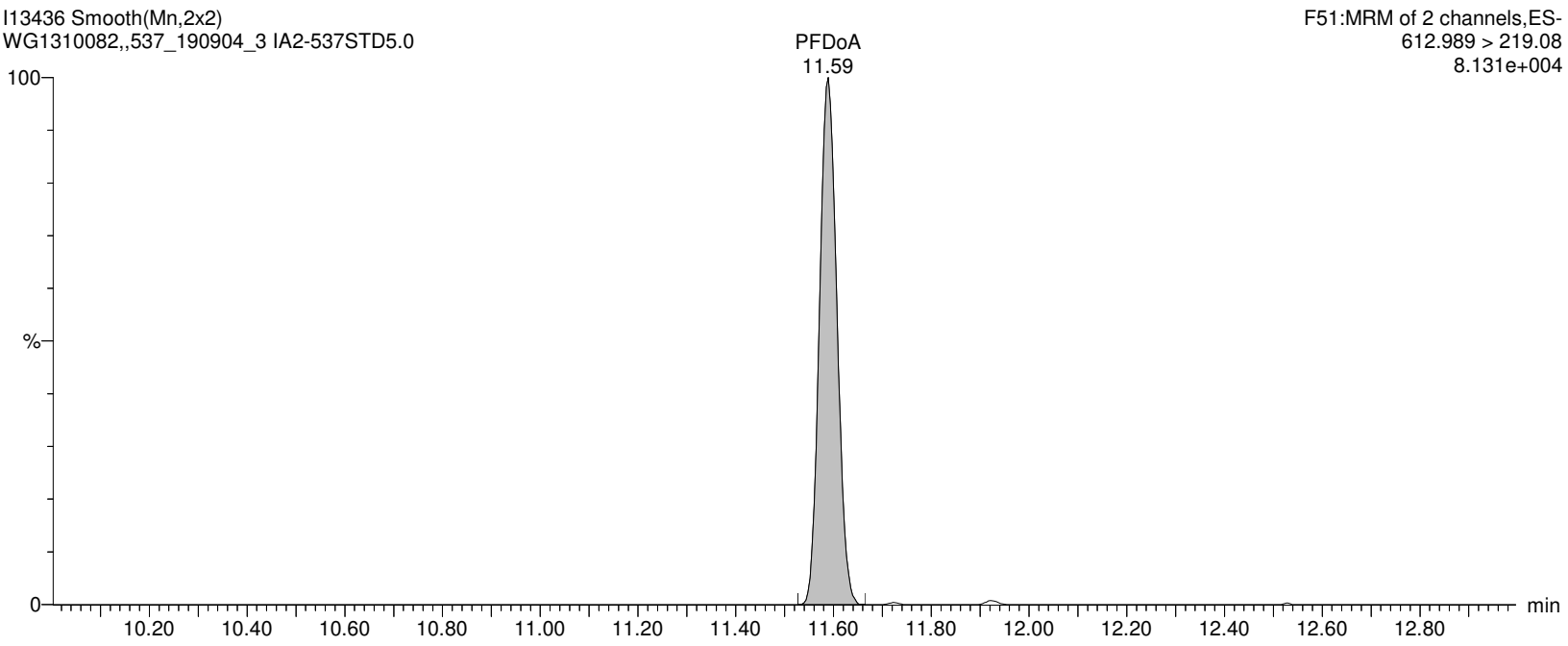

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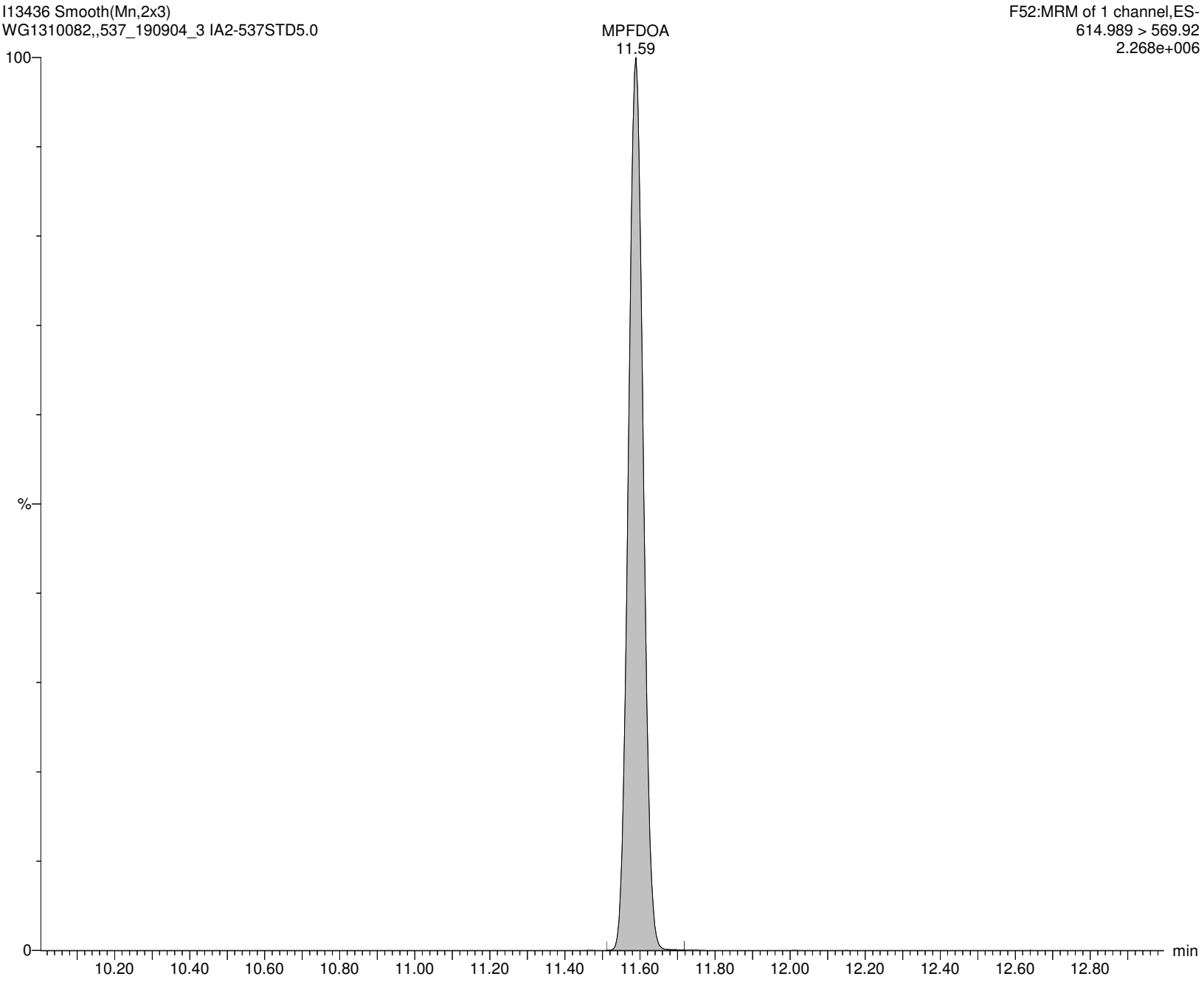

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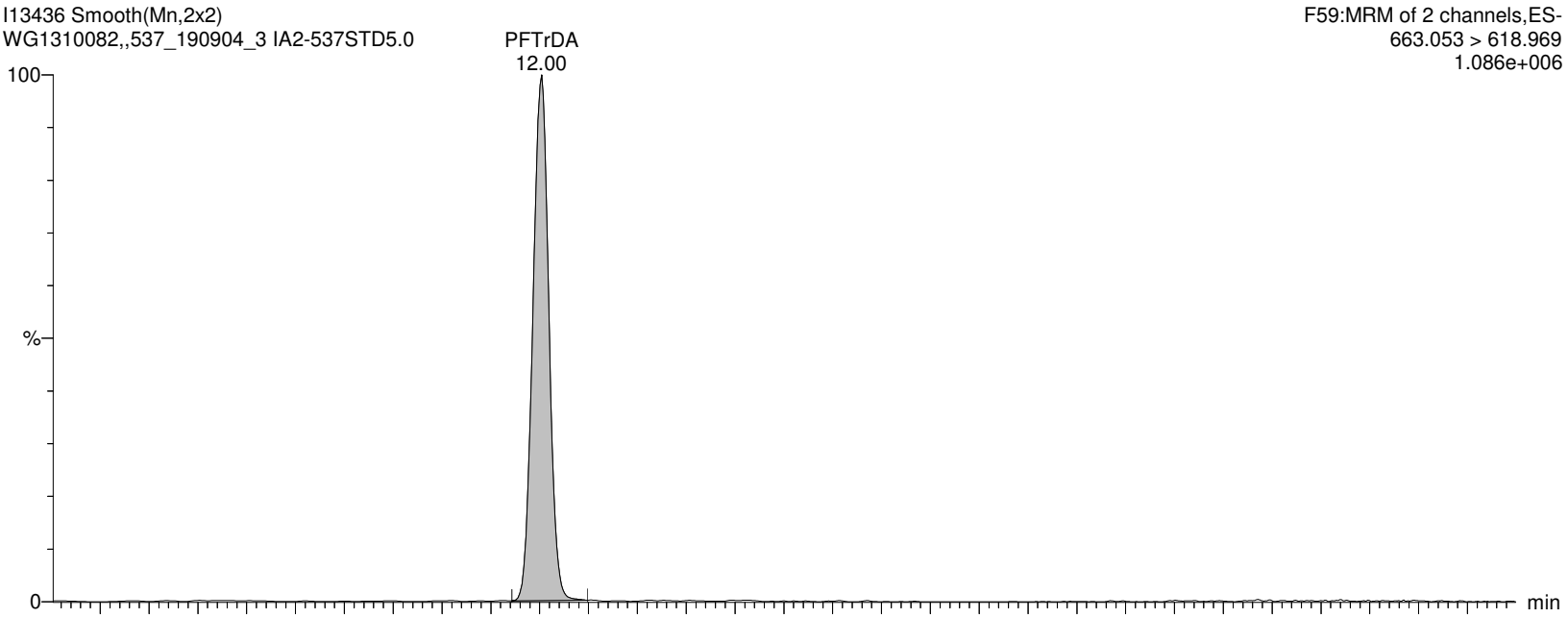

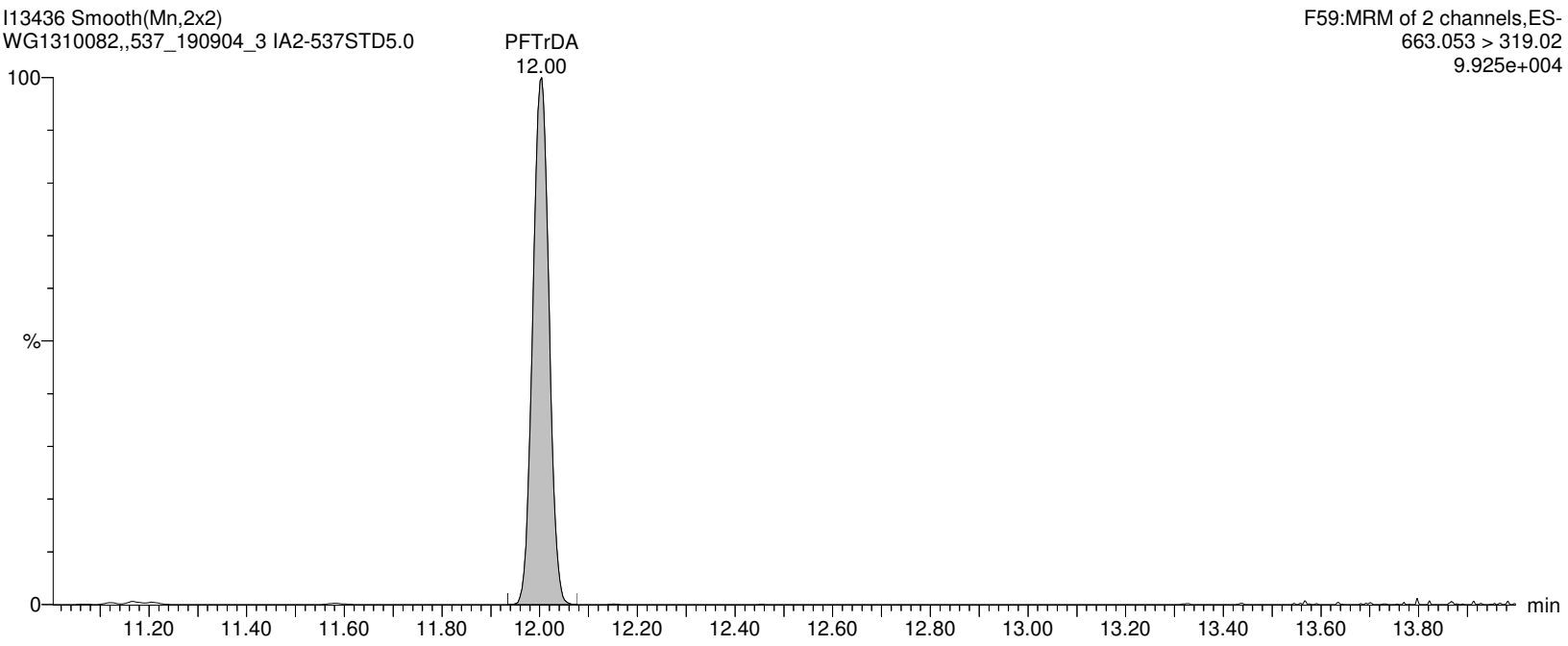

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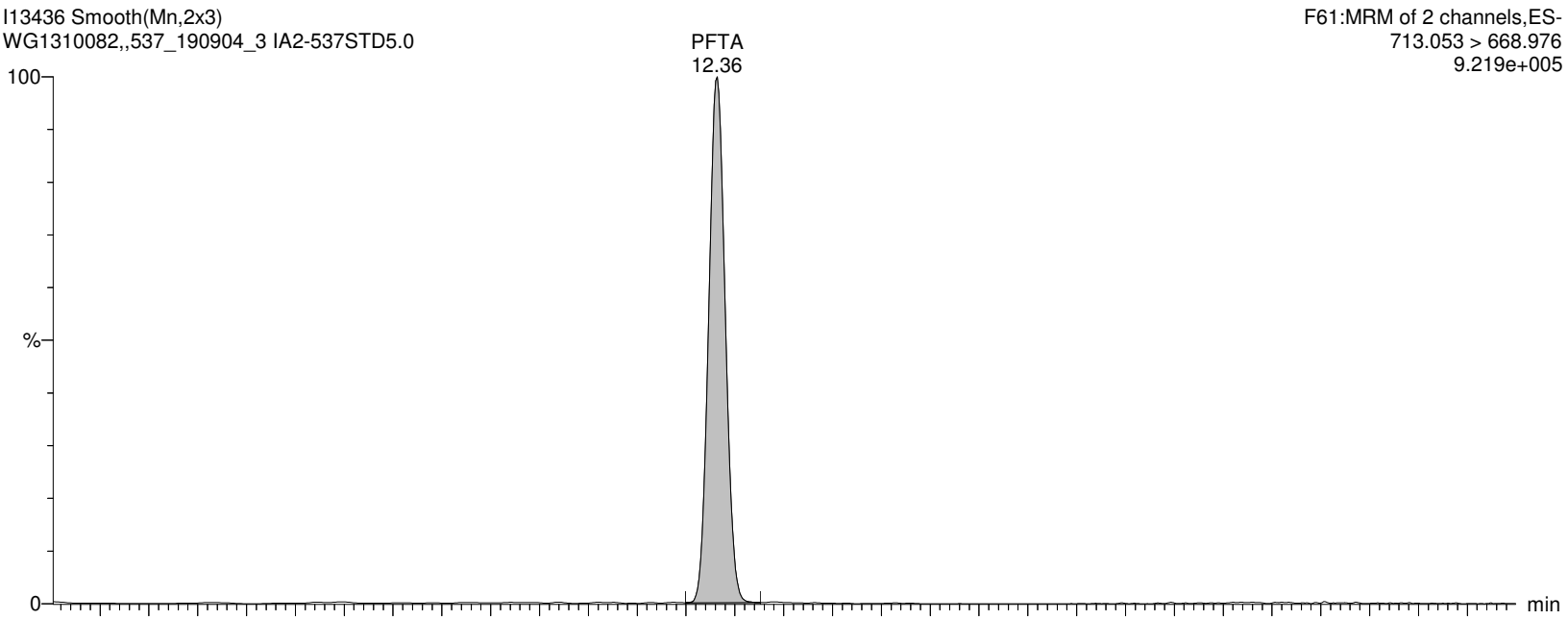

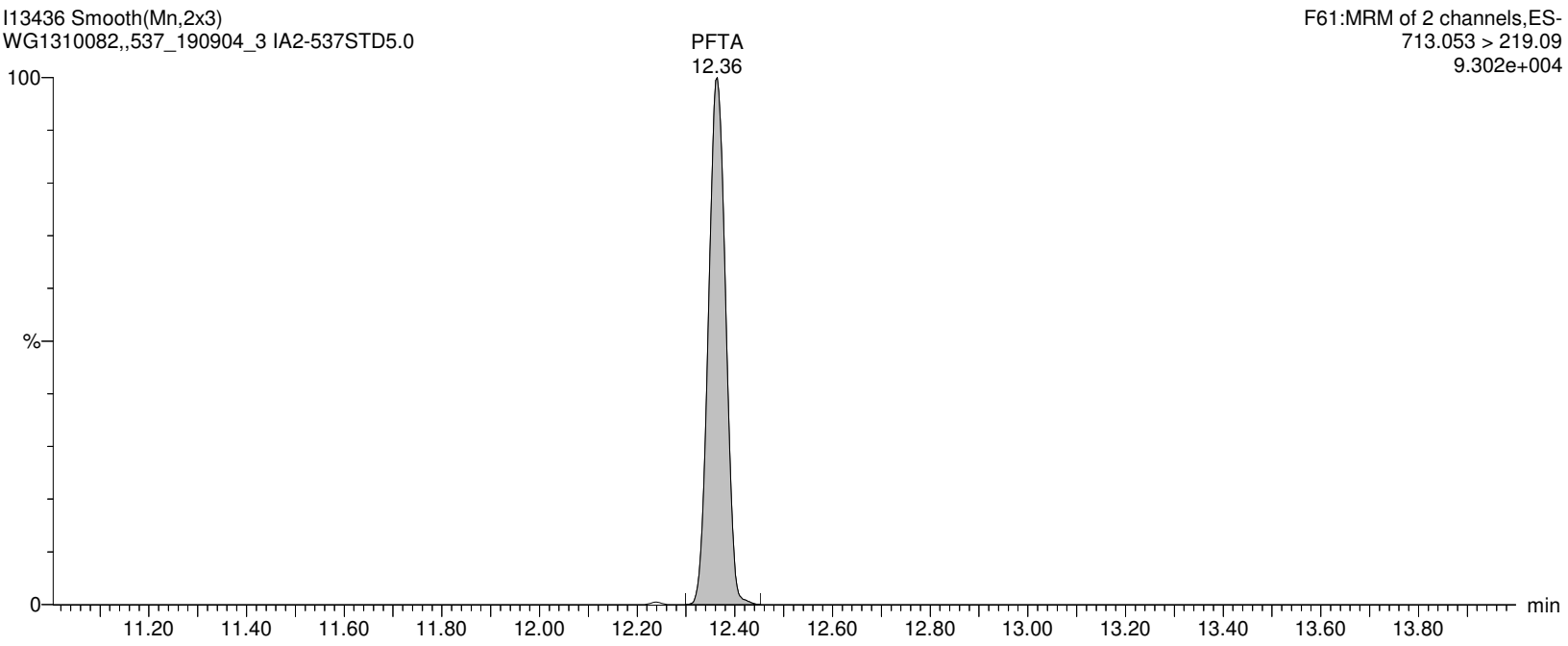

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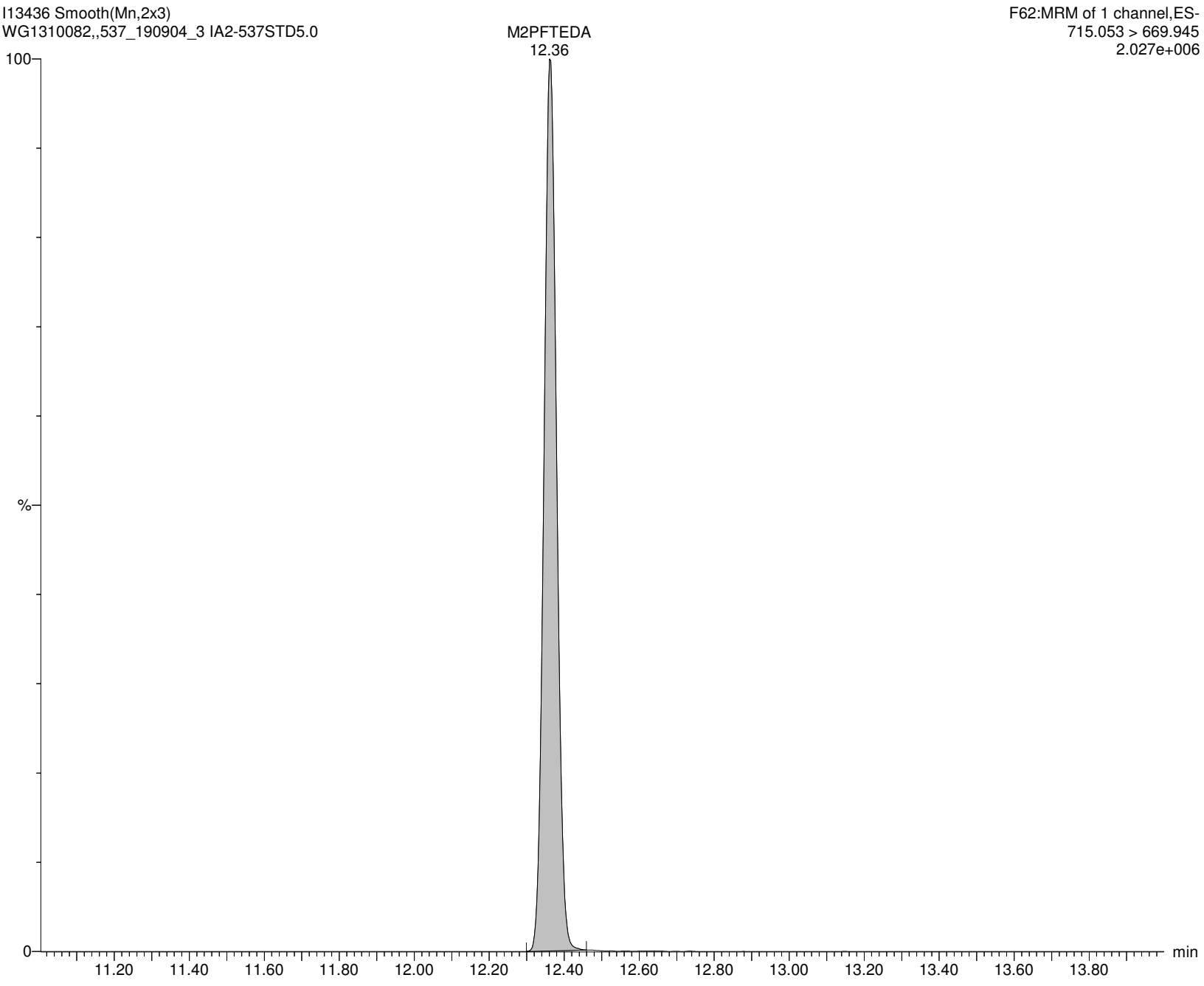

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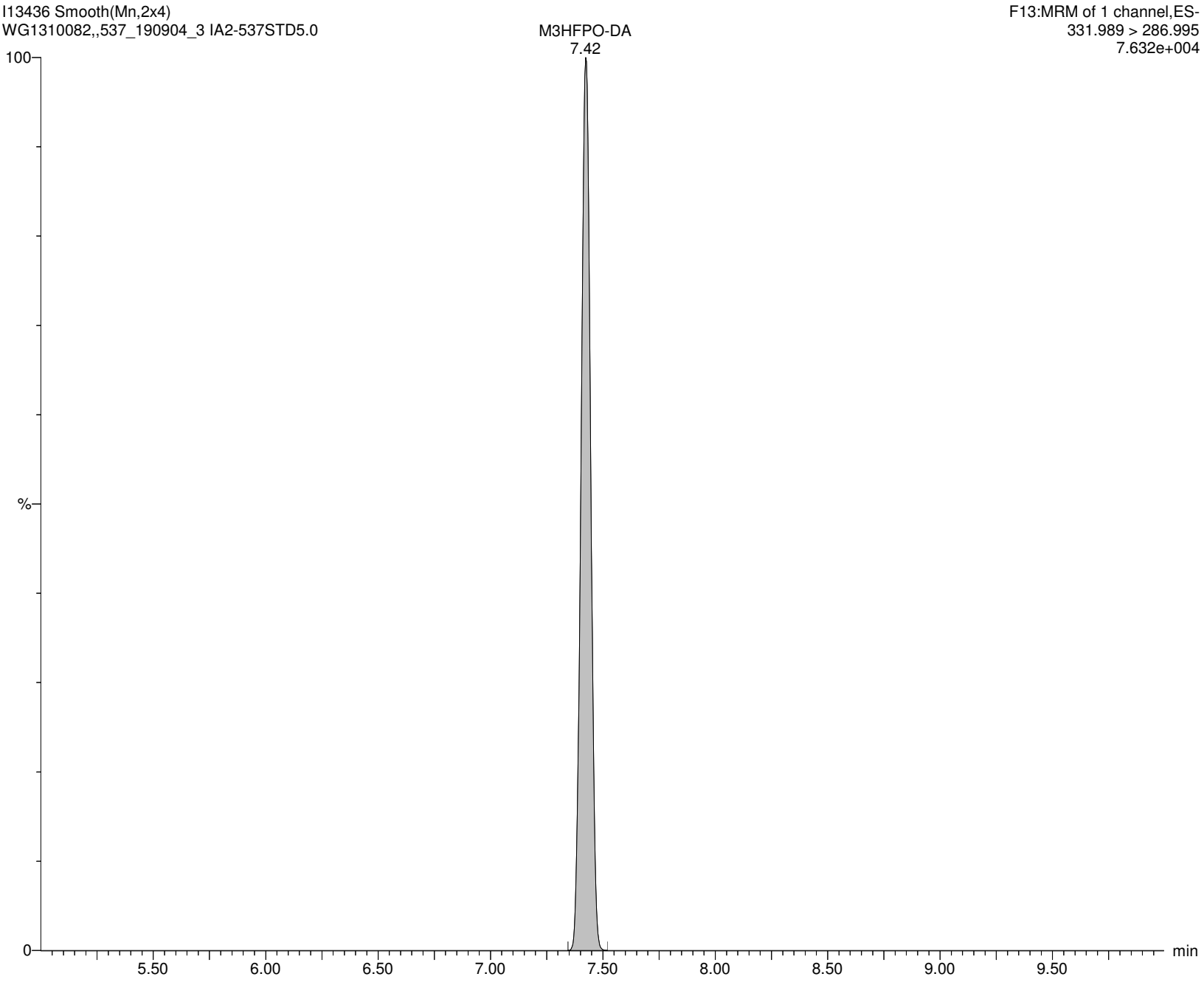

all concentration units in (ng/mL)

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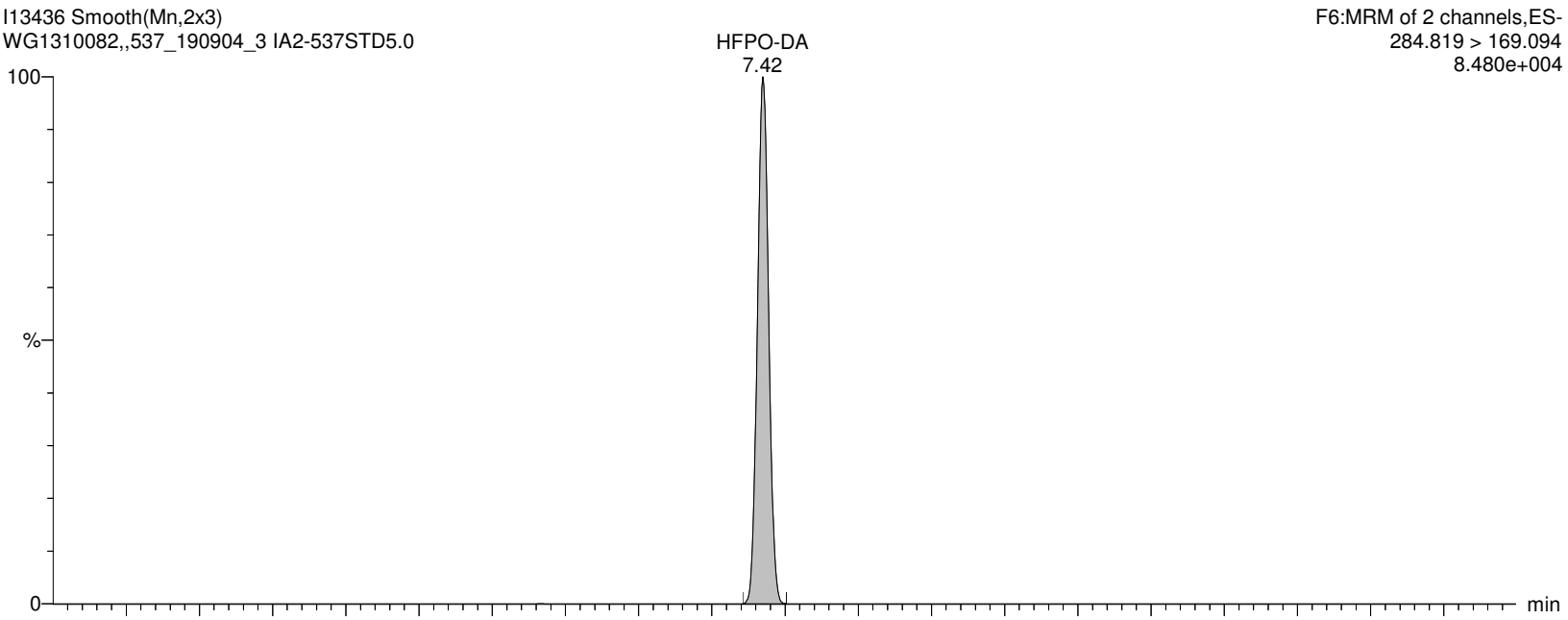

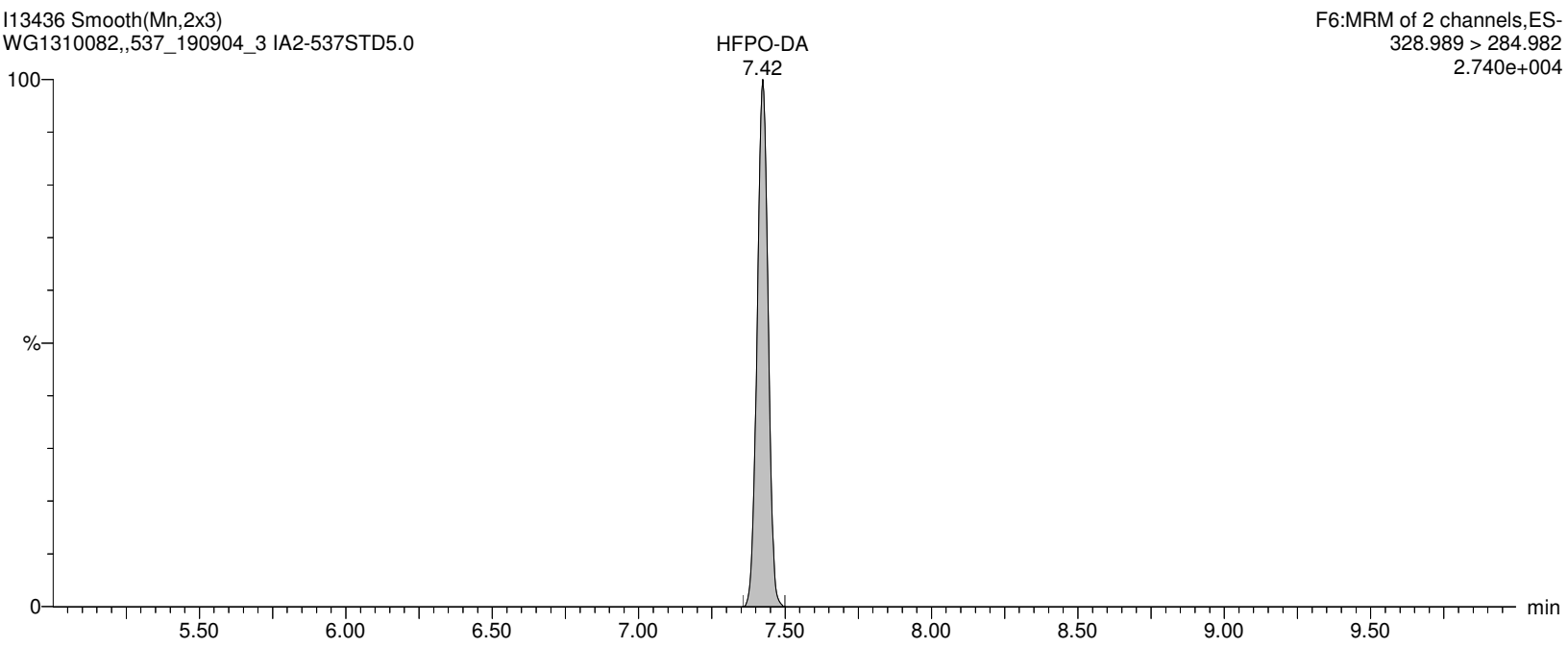

all concentration units in (ng/mL)

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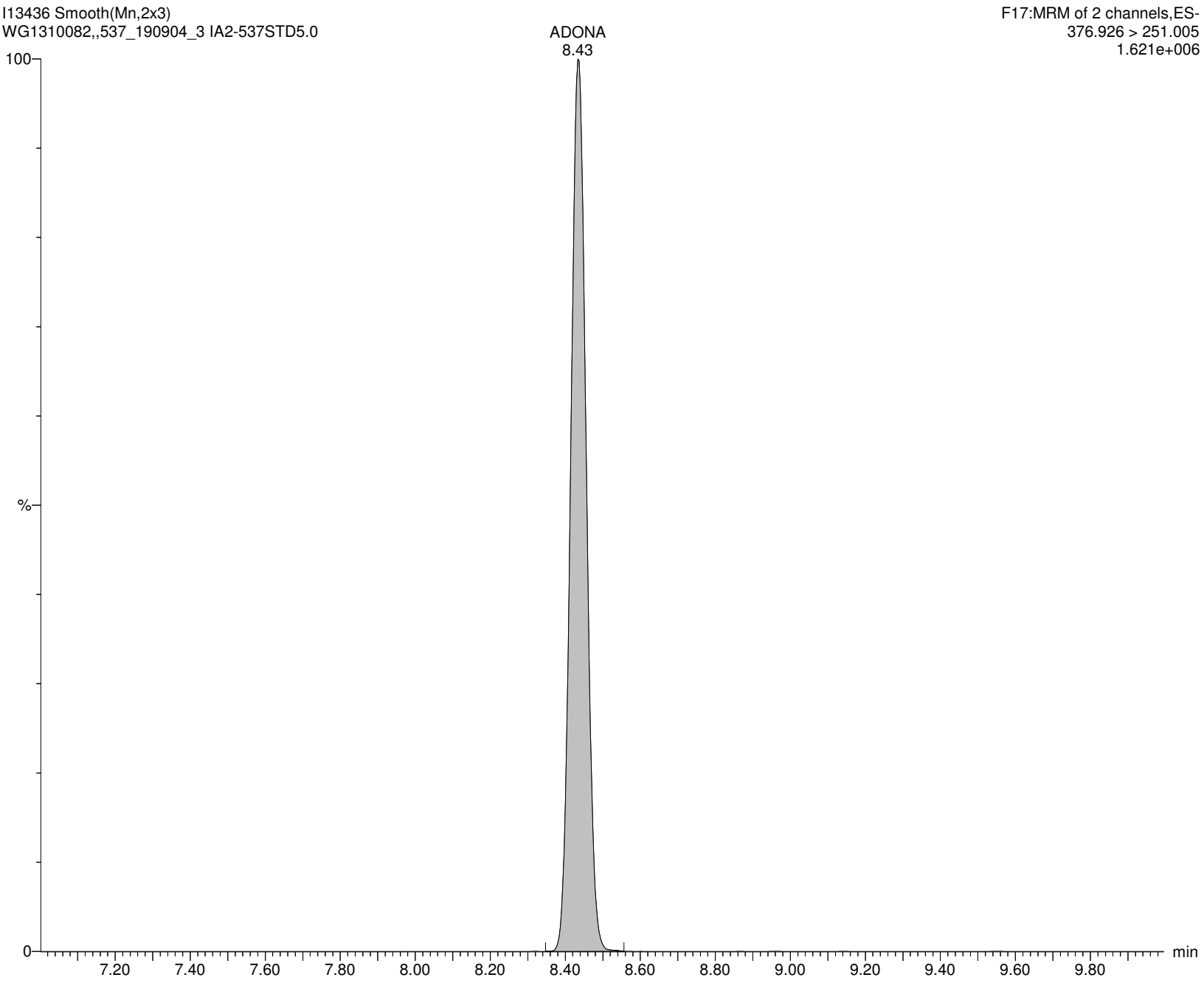

all concentration units in (ng/mL)

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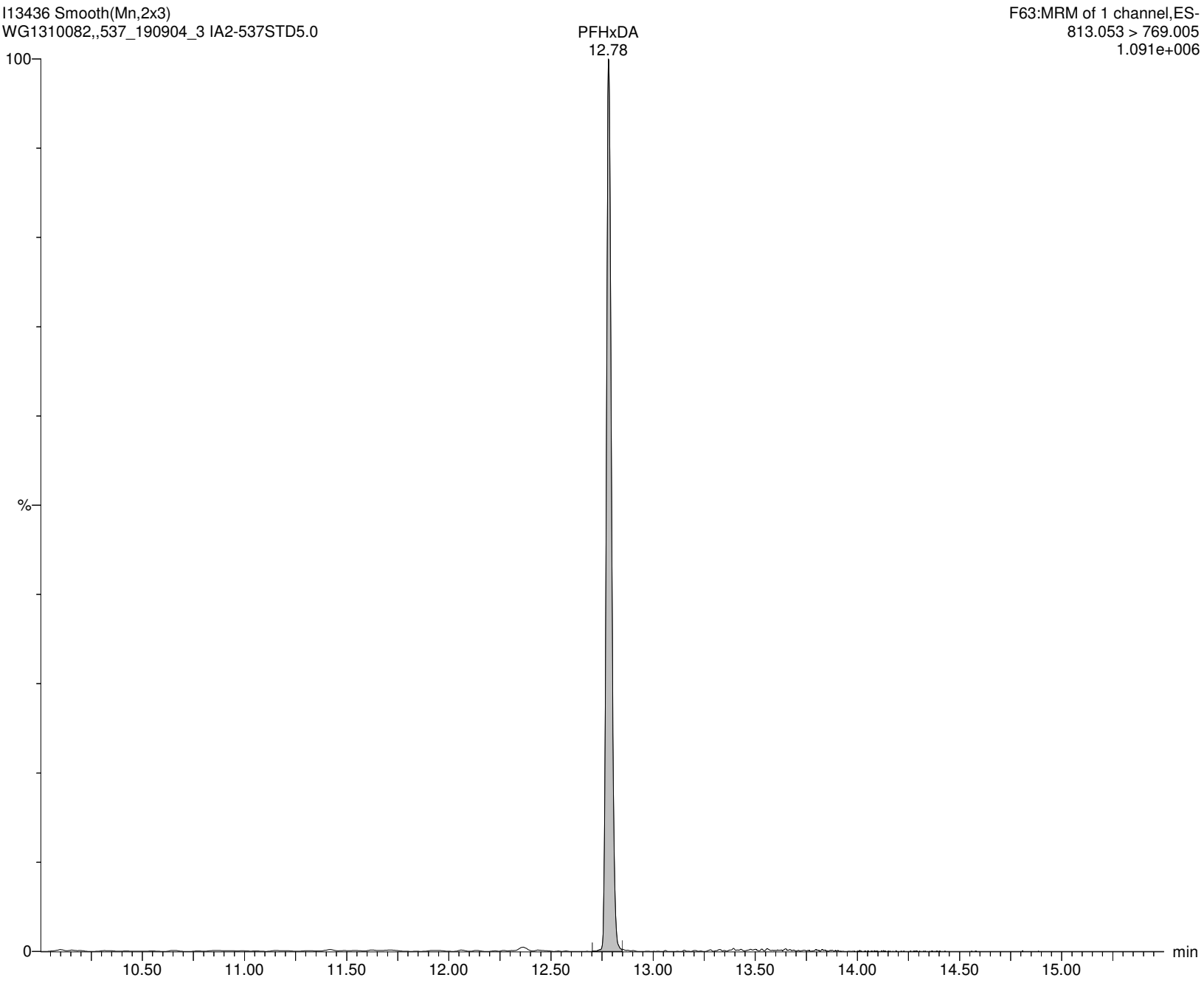

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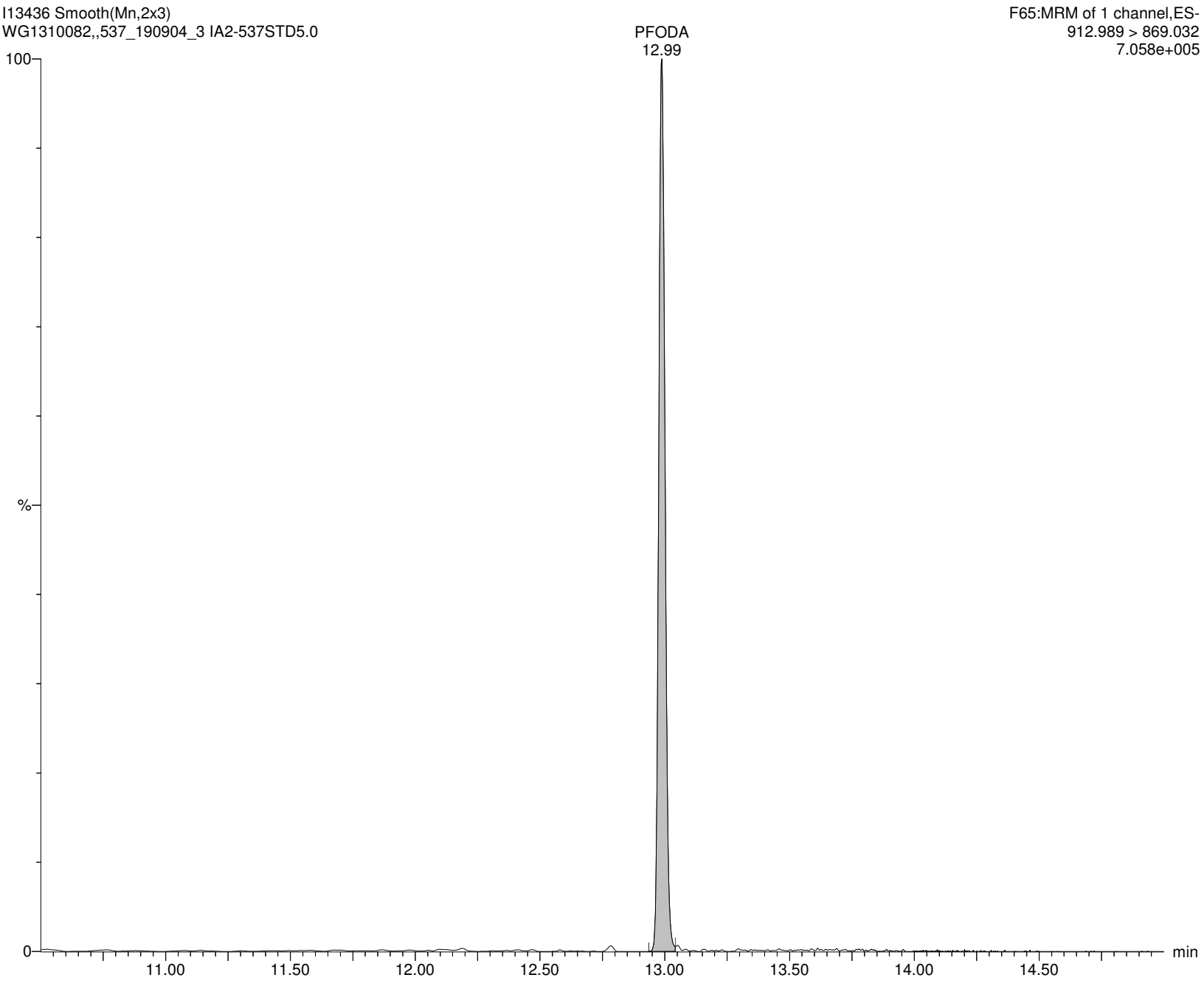

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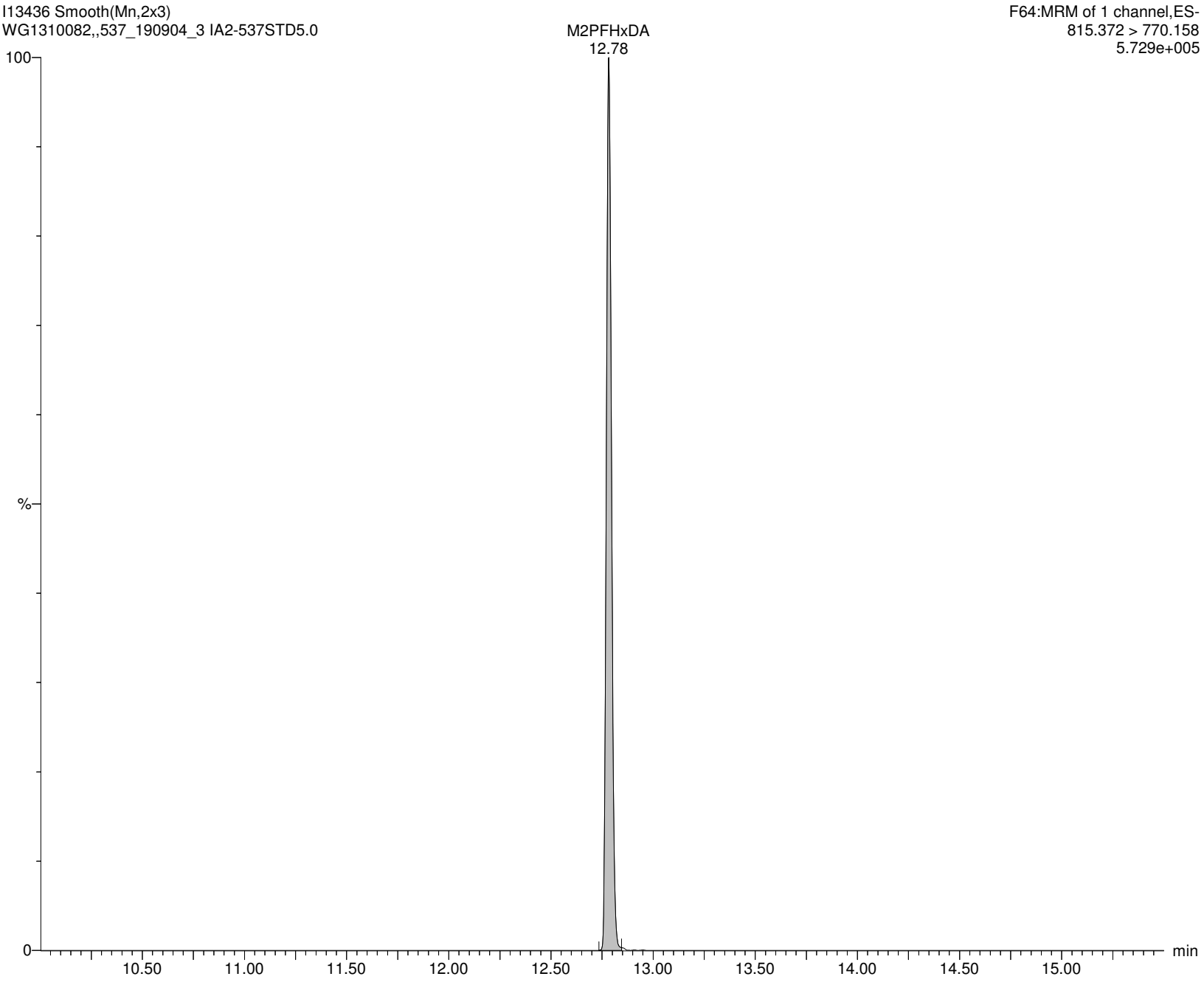

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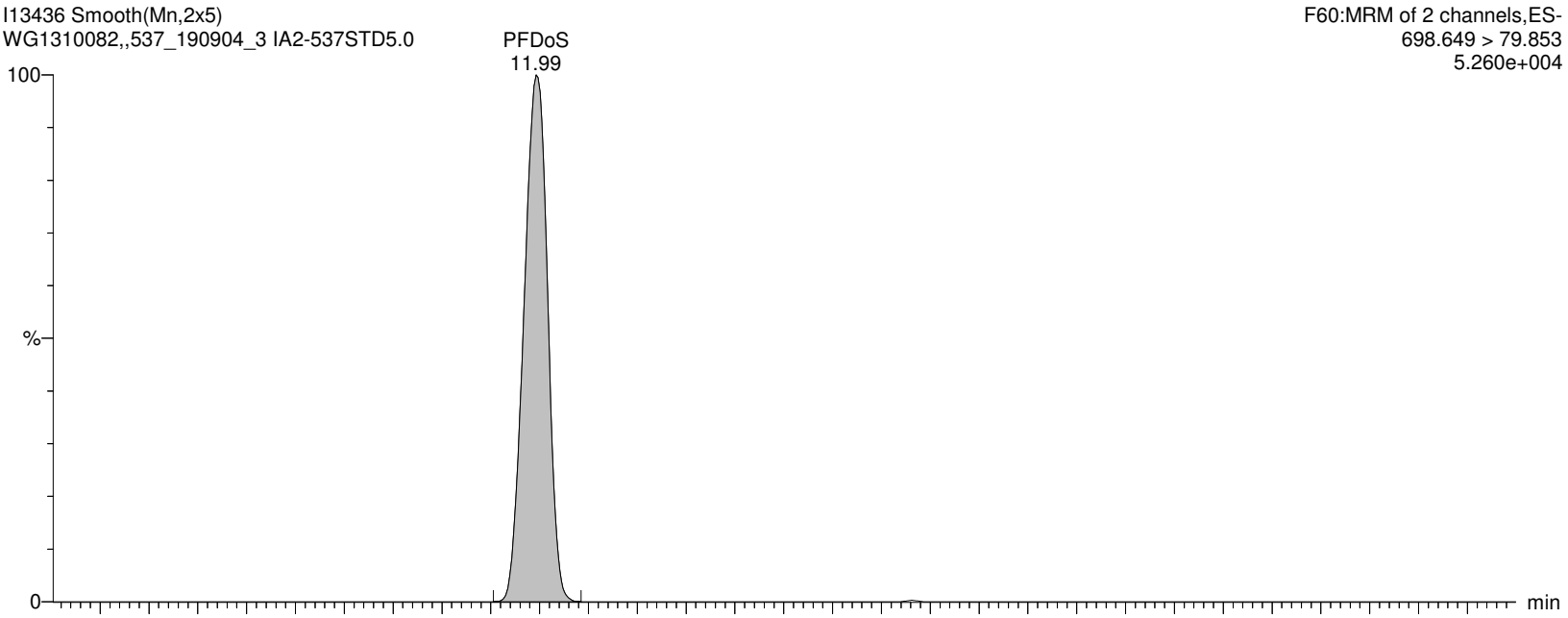

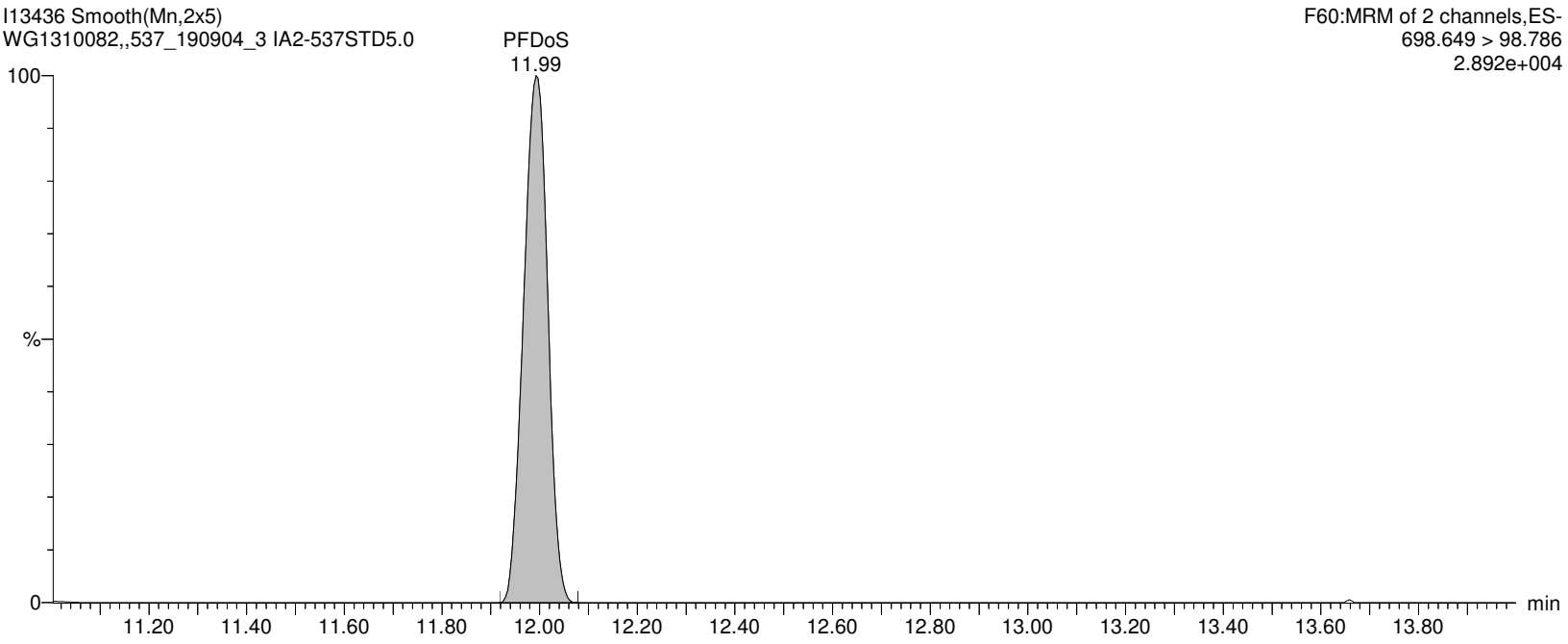

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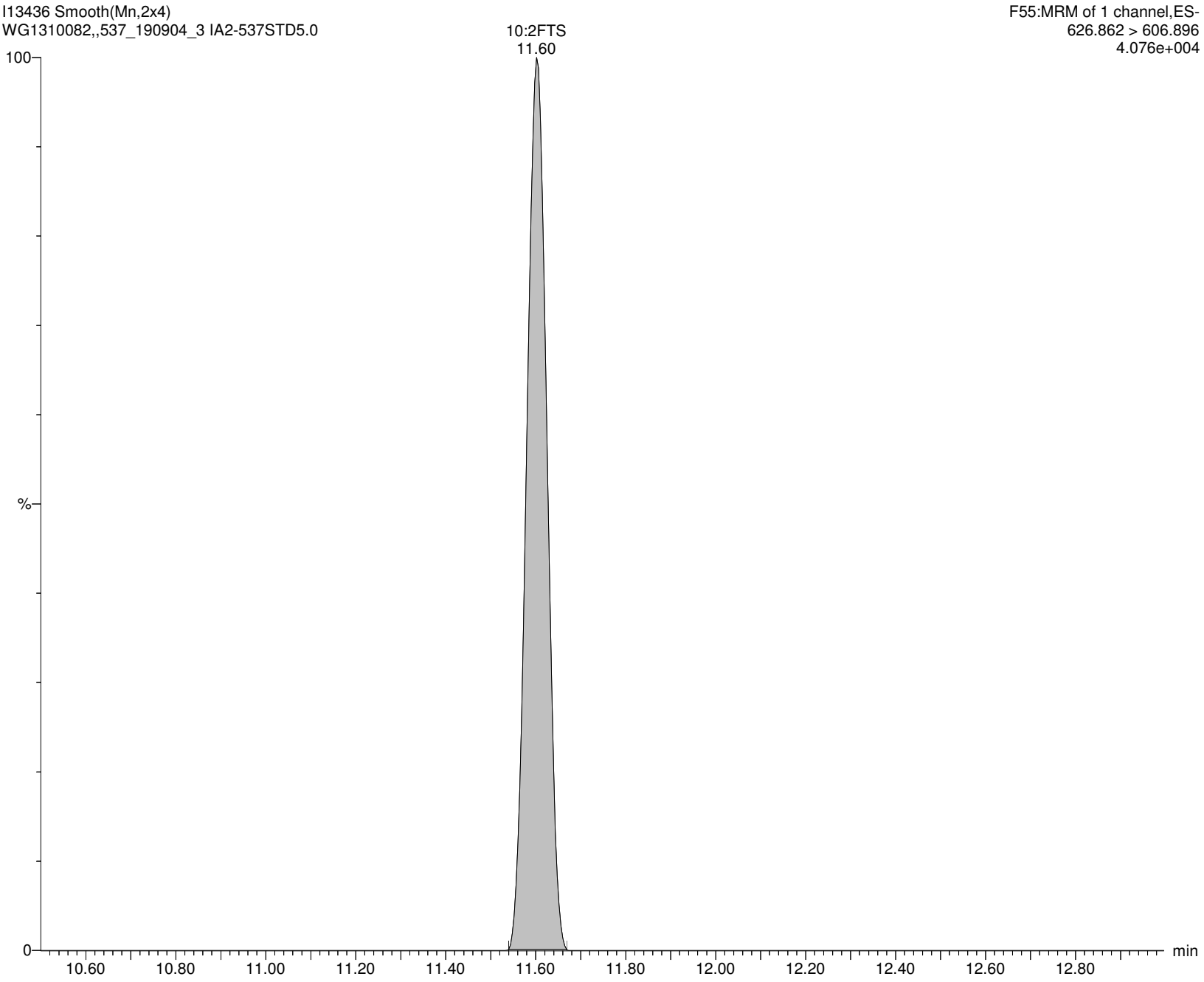

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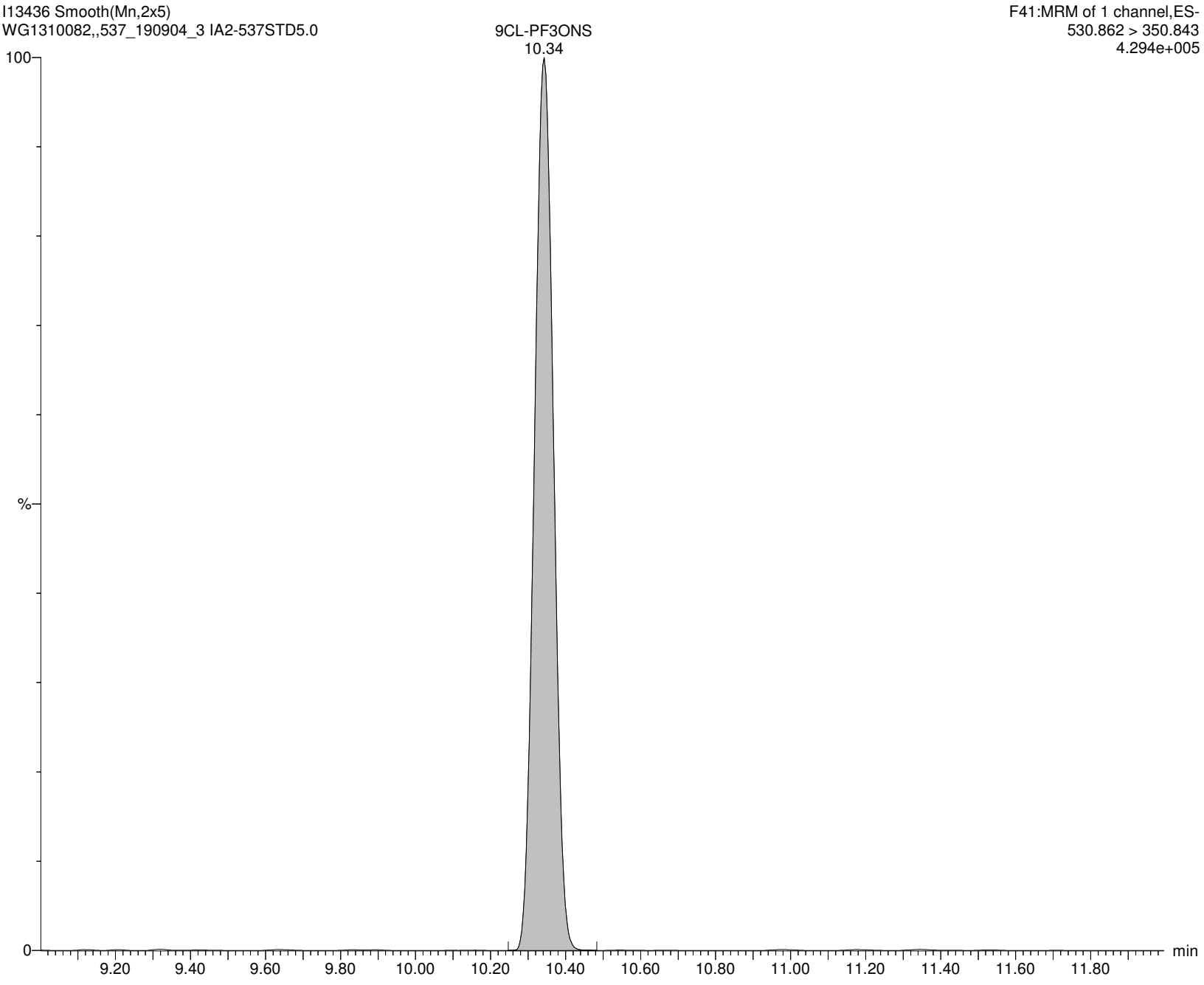

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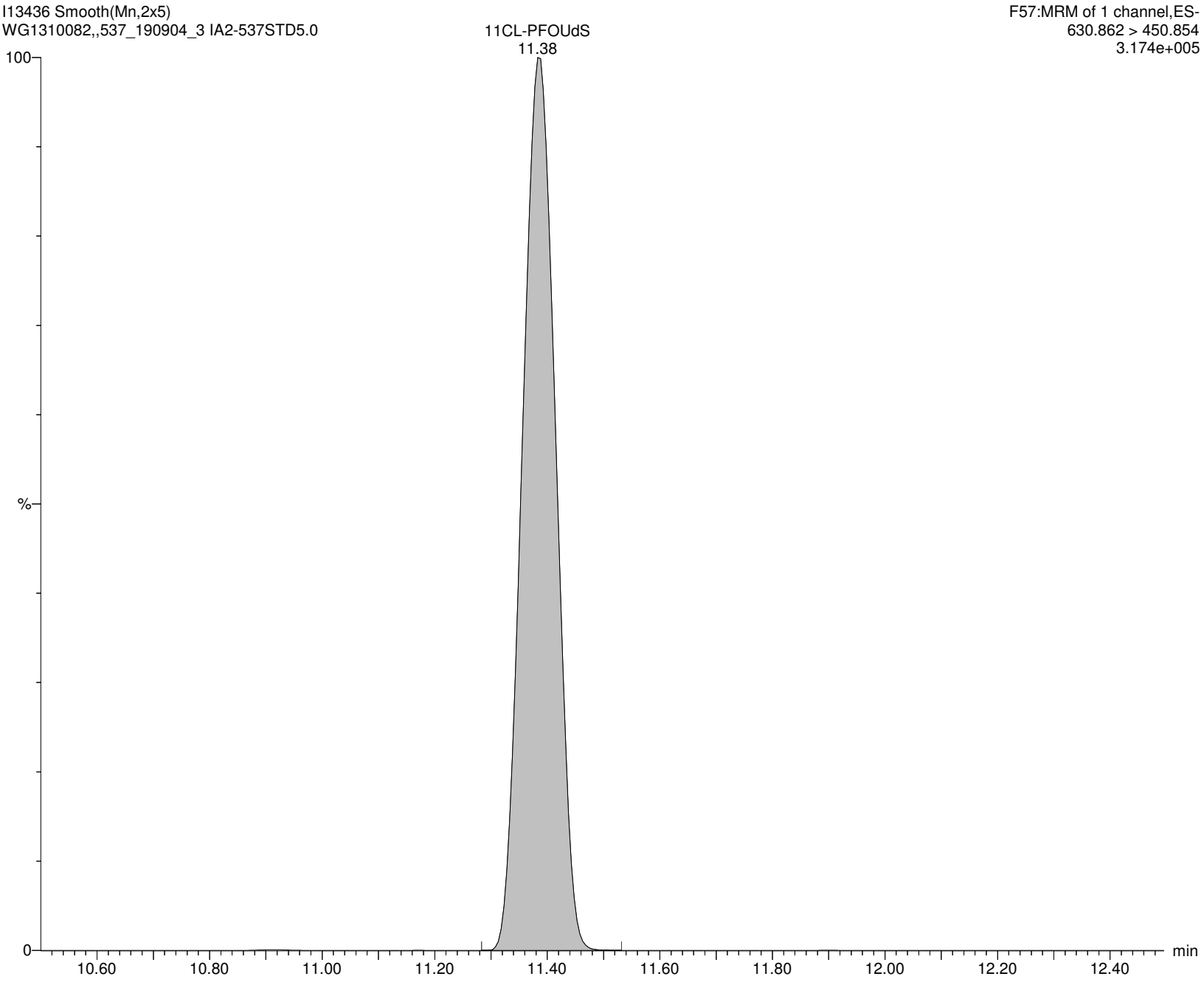
11CL-PFOUdS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:52 Eastern Standard Time

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Date: 18-Nov-2019
Time: 11:10:20
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User: LCMS02:JW
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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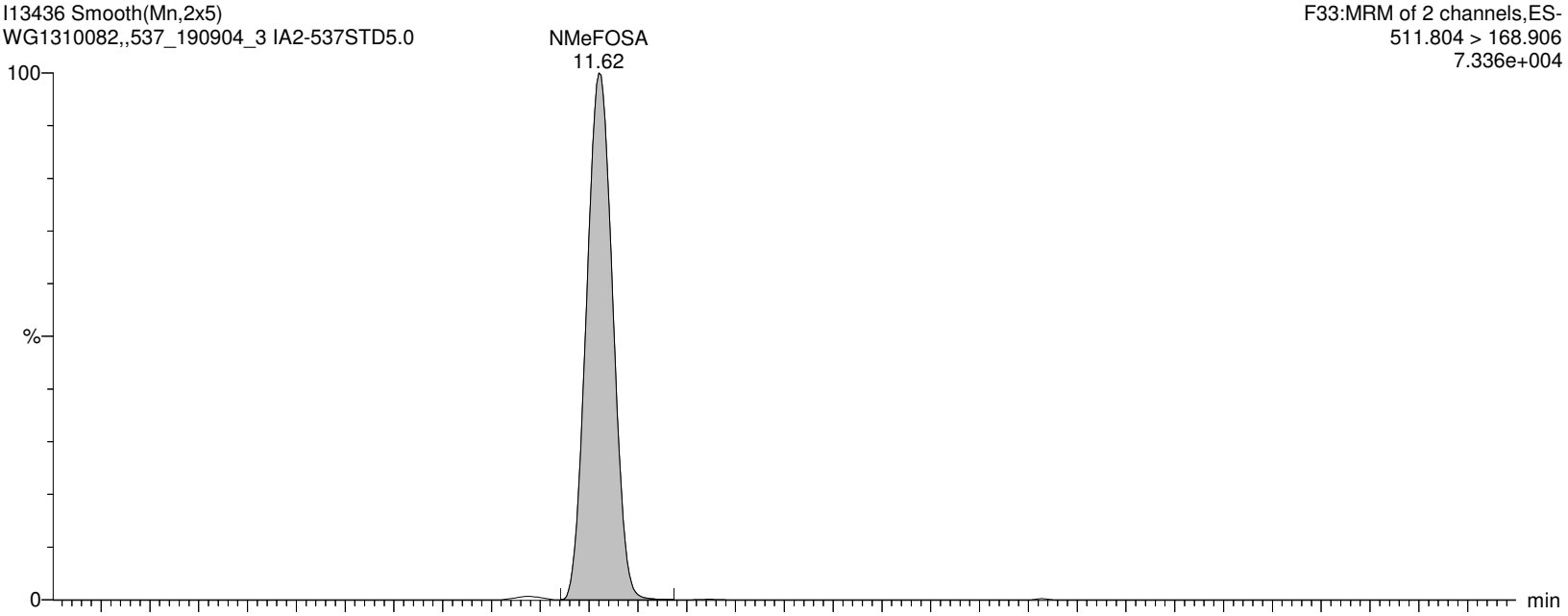

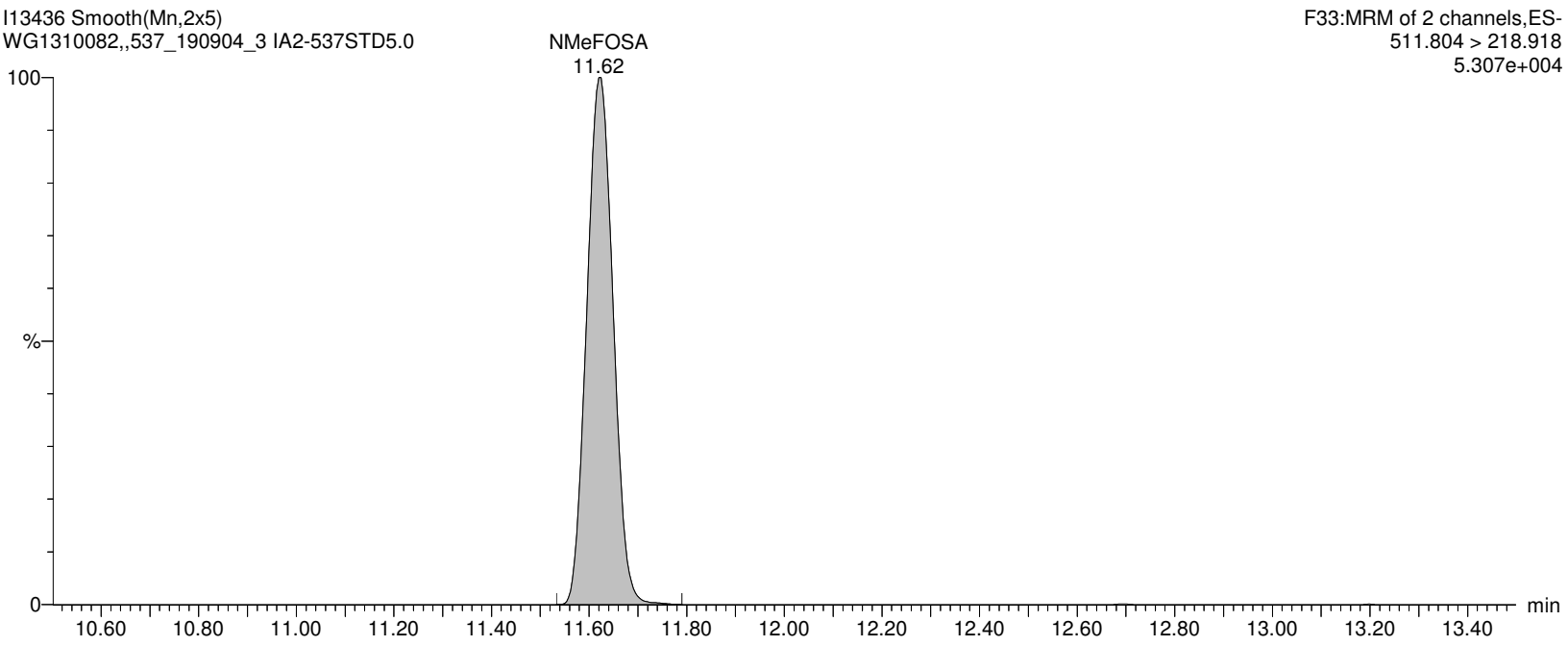

all concentration units in (ng/mL)

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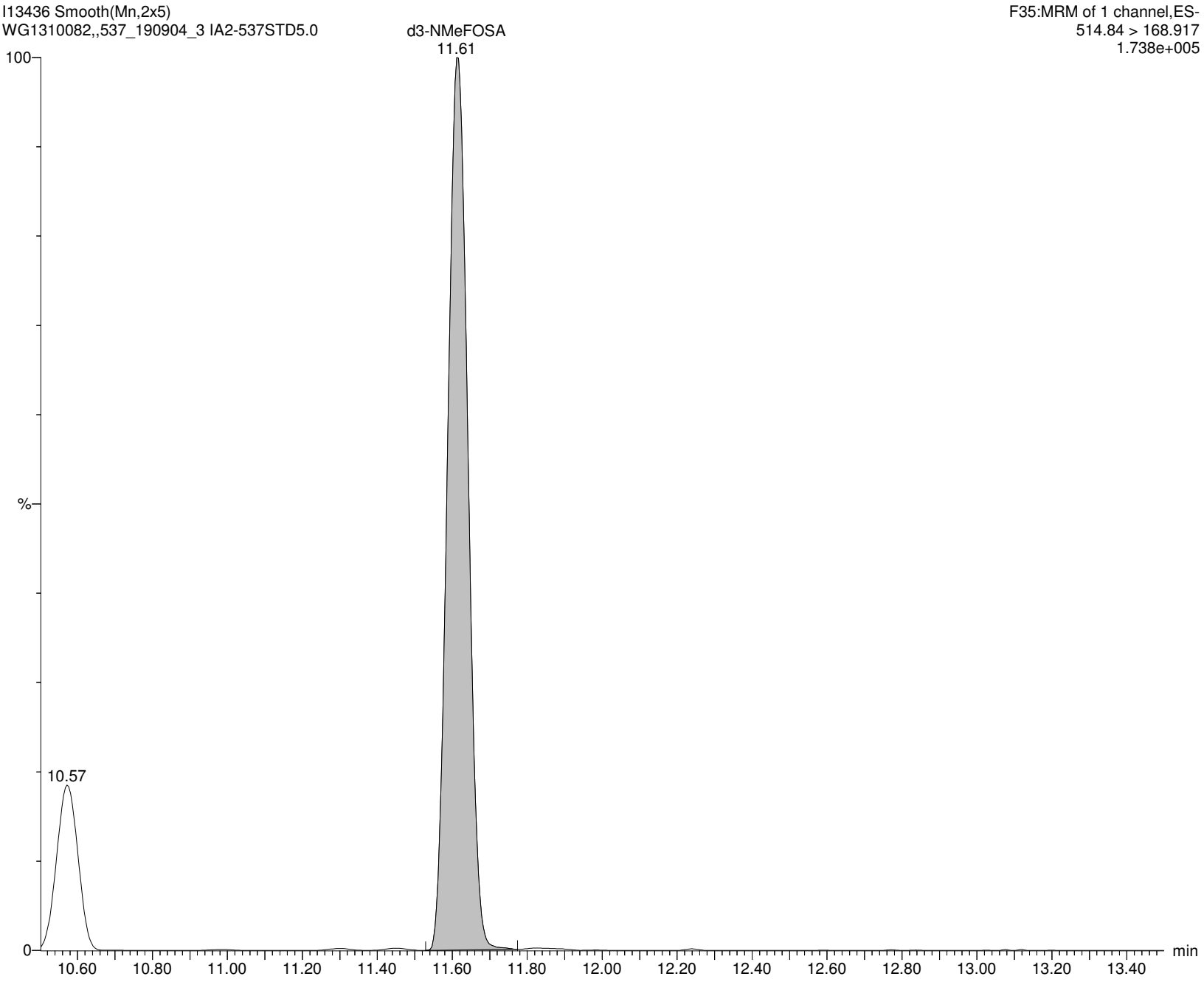

all concentration units in (ng/mL)

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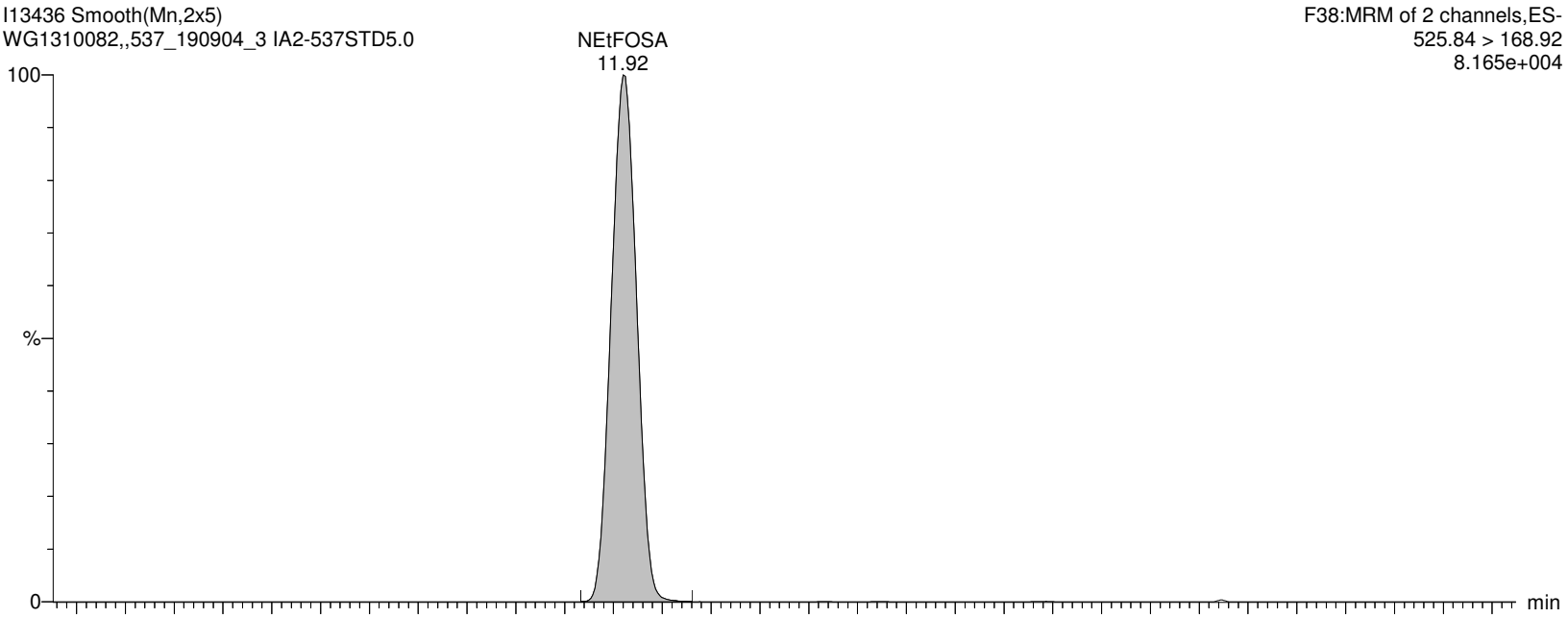

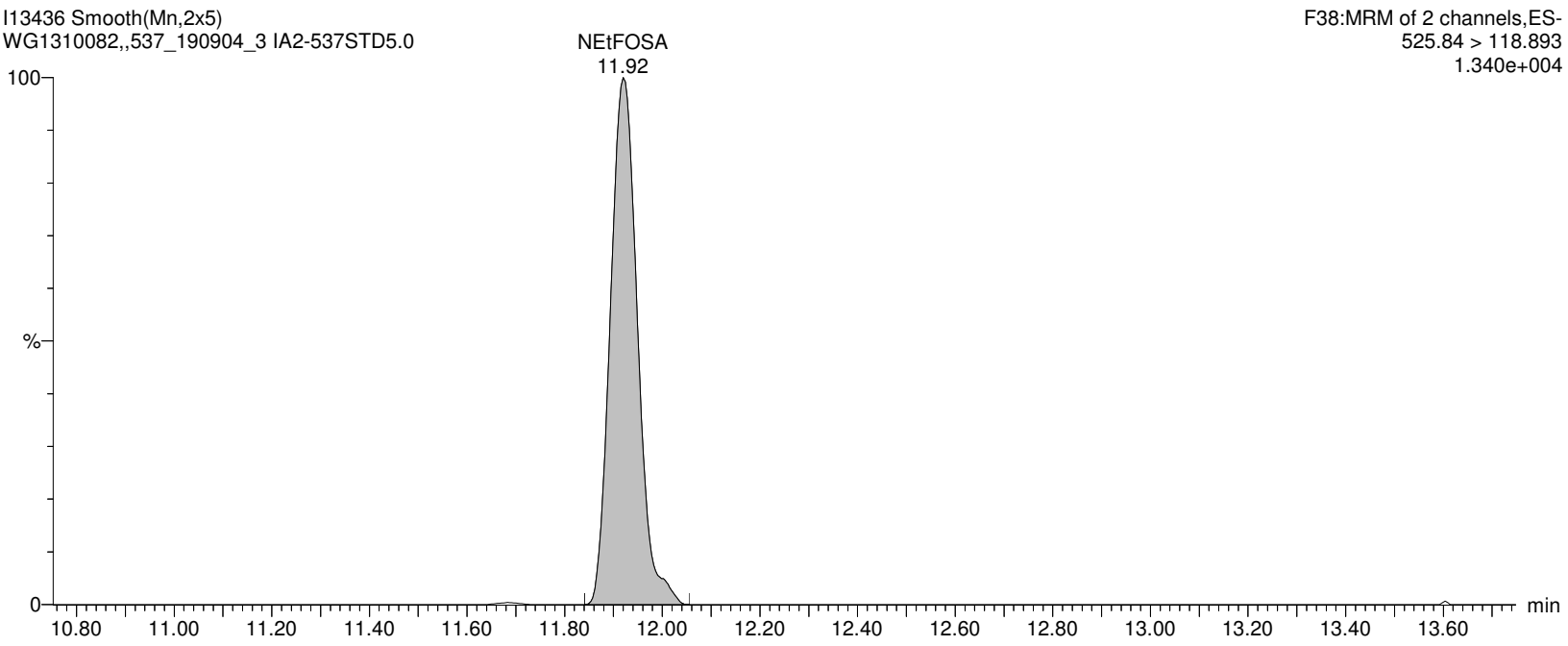

all concentration units in (ng/mL)

Alpha Analytical Inc.
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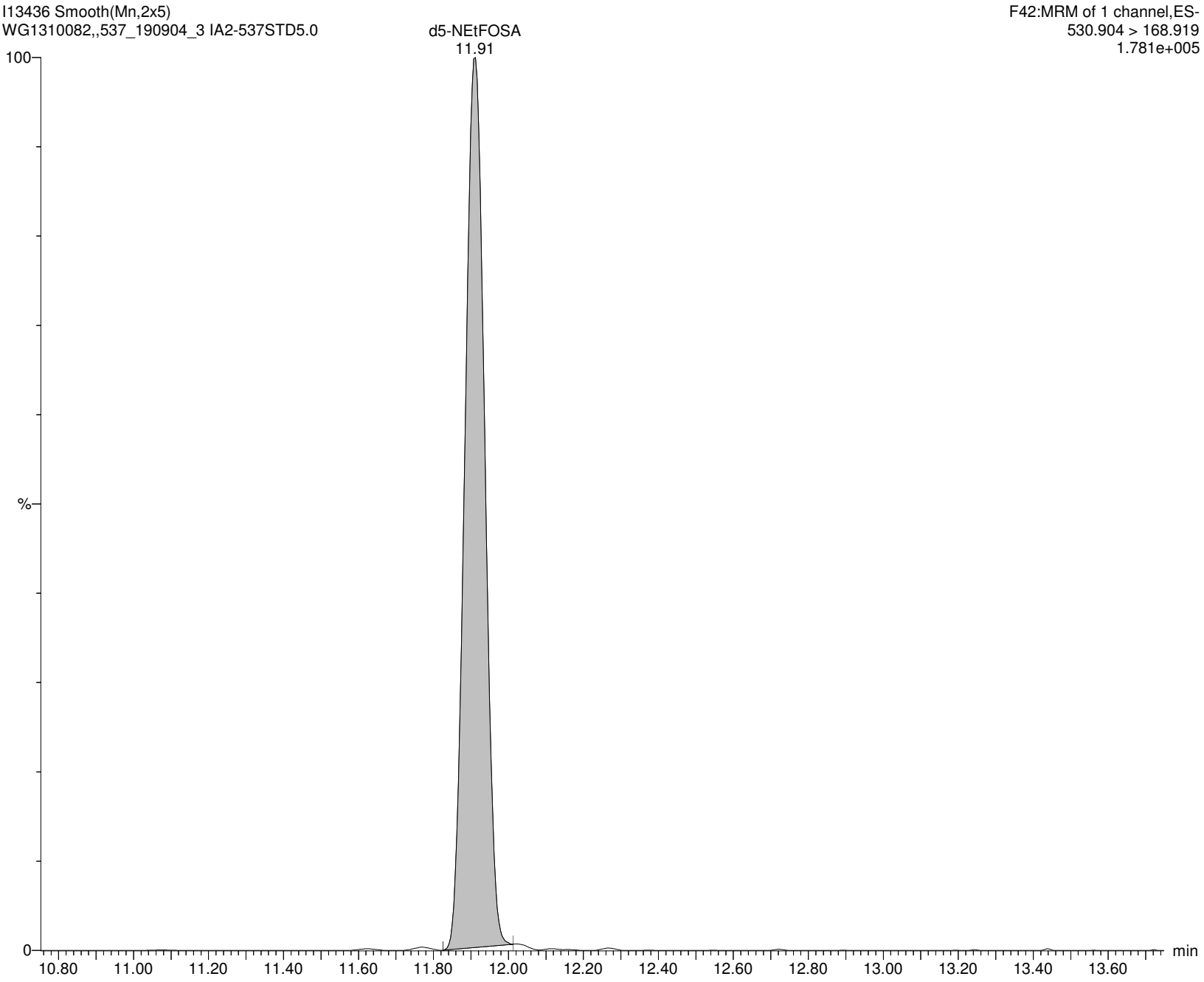
d5-NEtFOSA



all concentration units in (ng/mL)

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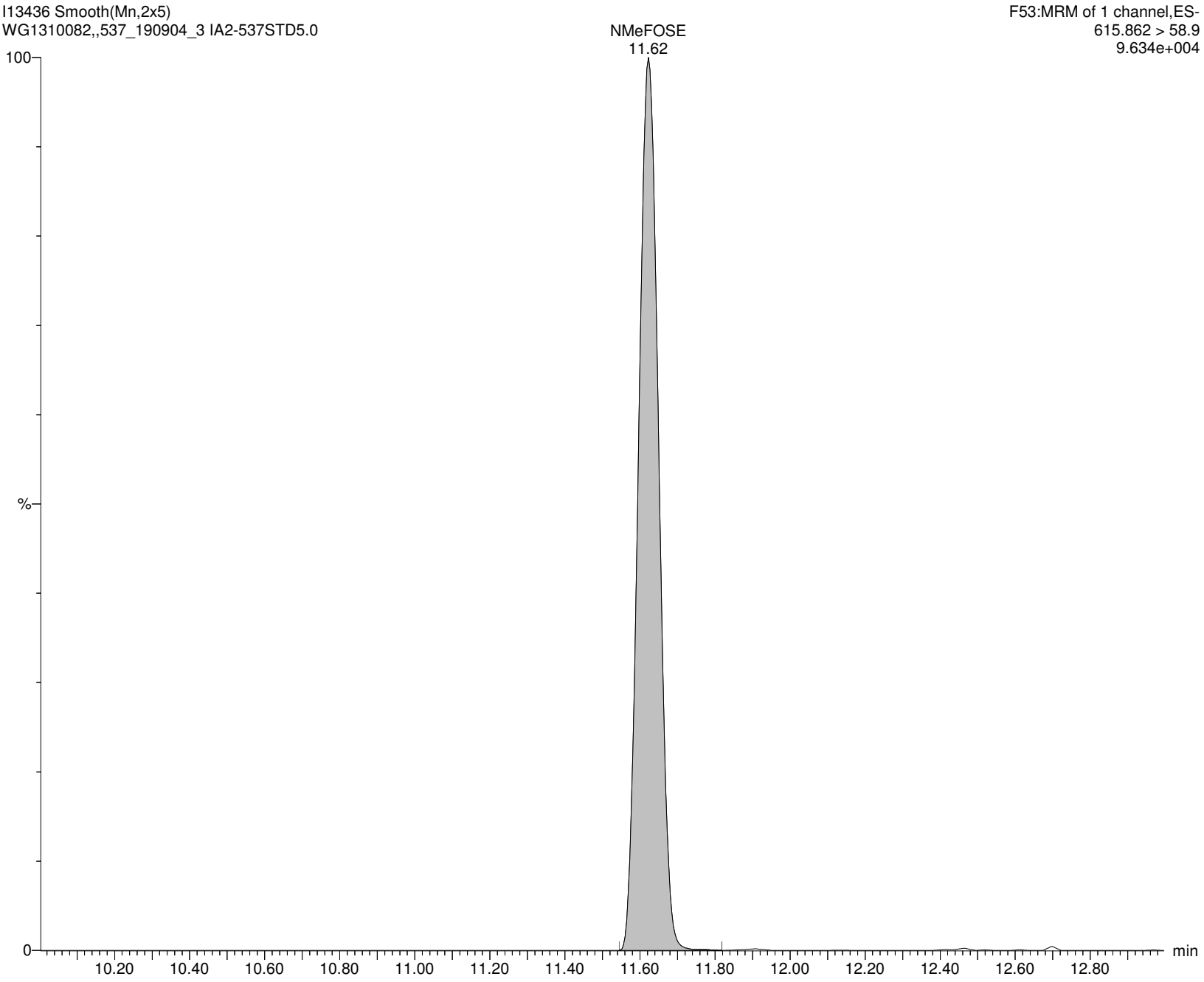

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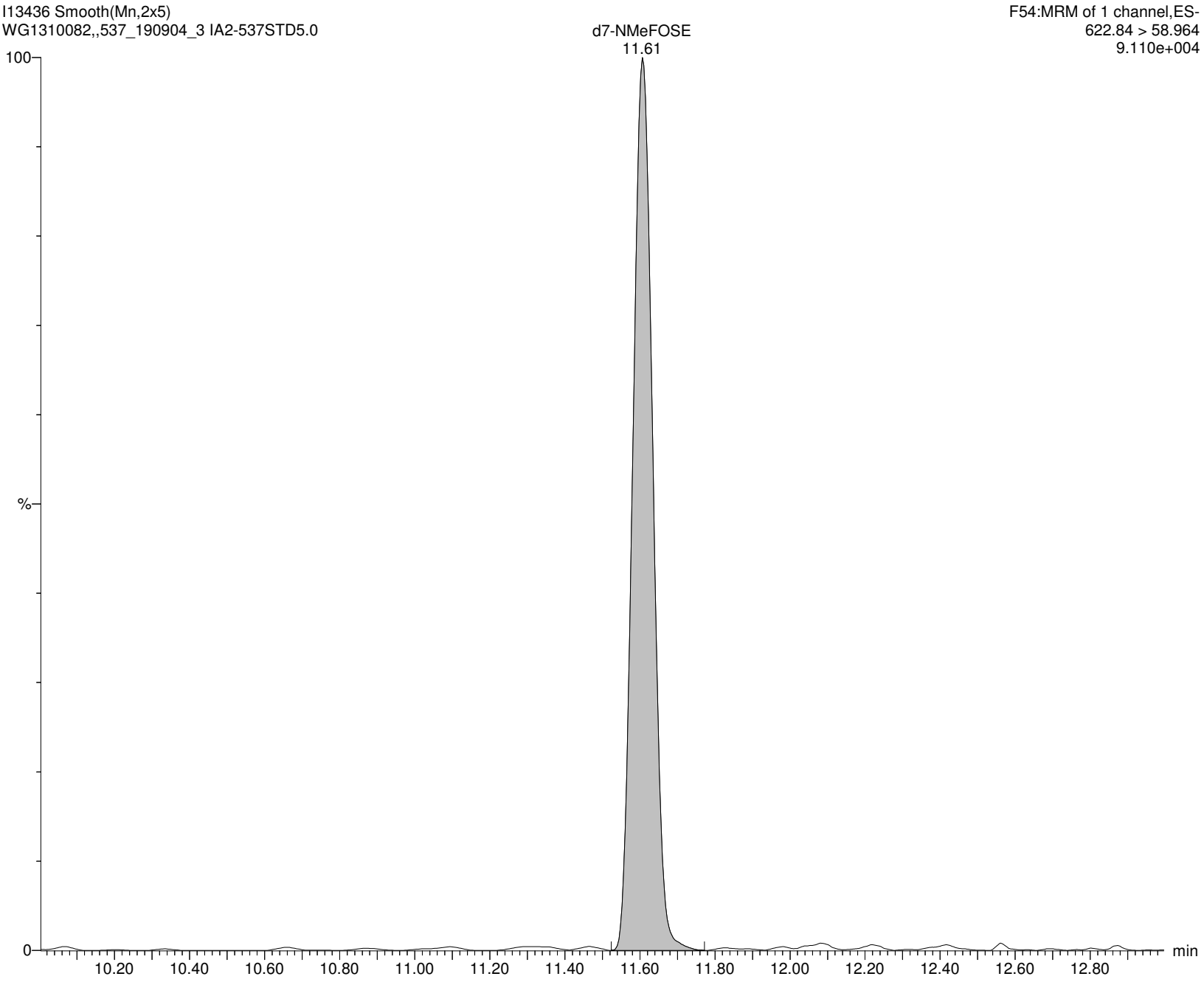

all concentration units in (ng/mL)

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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Date: 18-Nov-2019
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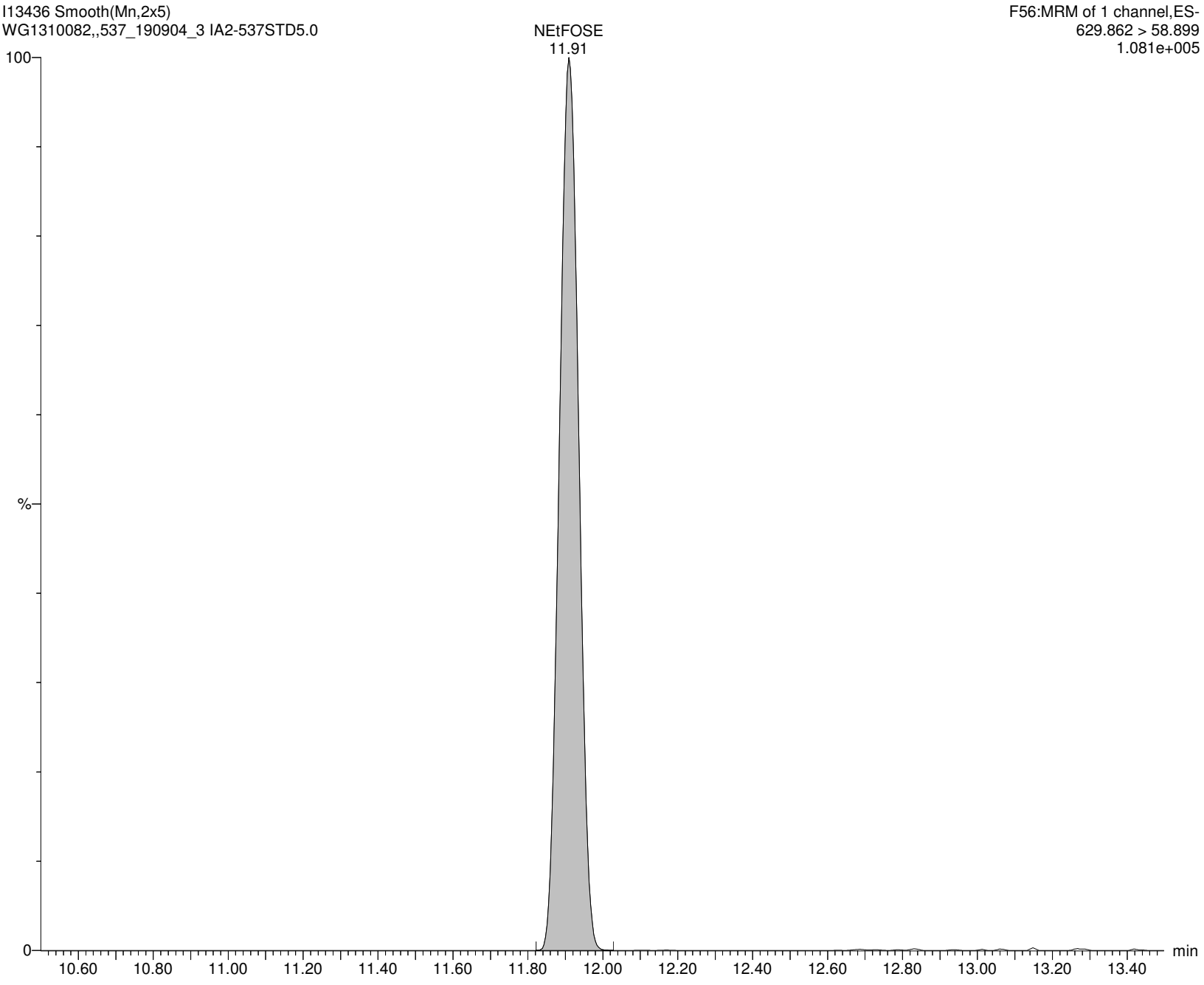
NEtFOSE



all concentration units in (ng/mL)

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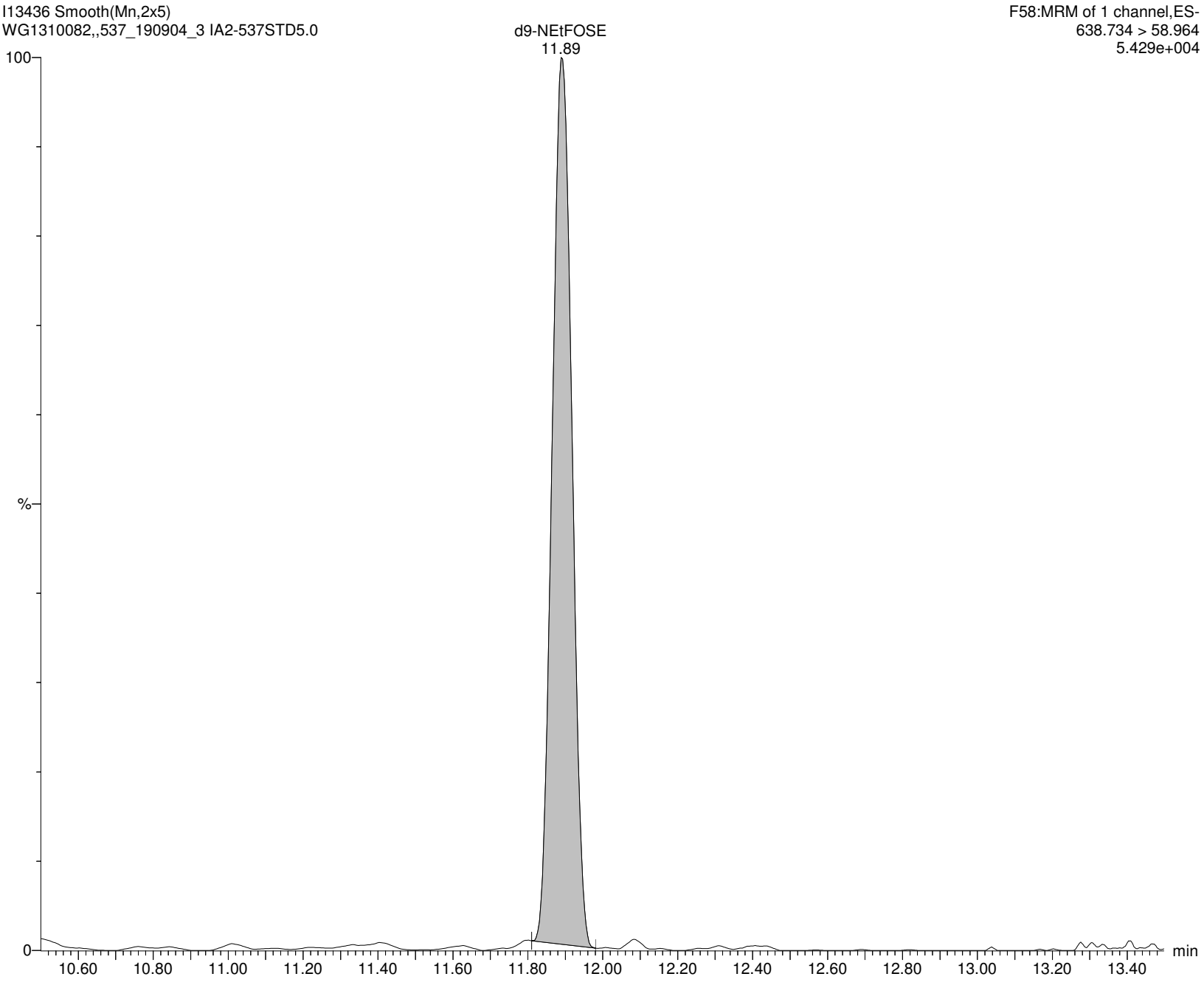

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:55 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD10.0
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Date: 18-Nov-2019
Time: 11:26:51
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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	42613		9.920		na	99.2
2	M3PFBA	INT STD	2.19	215.926 > 172.122	47492		10.249		na	102.5
3	MPFBA	INT STD	2.19	216.926 > 172.137	51444		9.954		na	99.5
4	PFPeA	2706-90-3	5.10	262.926 > 219.002	70843		9.778		na	97.8
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	75018		10.234		na	102.3
6	PFBS	375-73-5	5.75	298.926 > 79.923	13152		8.873	1.86	NO	100.3
7	M3PFBS	INT STD	5.75	301.989 > 80.254	10089		9.447		na	94.5
8	4:2FTS	757124-72-4	6.92	326.926 > 306.957	5684		9.476	2.14	NO	101.3
9	M2-4:2FTS	INT STD	6.92	329.117 > 309.079	5560		8.019		na	80.2
10	PFHxA	307-24-4	7.00	312.989 > 269.028	78643		9.941	18.89	NO	99.4
11	M5PFHxA	INT STD	6.99	317.989 > 273.045	85938		9.771		na	97.7
12	PFPeS	2706-91-4	7.31	348.926 > 80.251	9042		8.563	1.75	NO	91.1
13	PFHpA	375-85-9	8.26	362.926 > 319.014	103796		9.884	5.91	NO	98.8
14	M4PFHpA	INT STD	8.25	366.926 > 321.979	116421		9.938		na	99.4
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	1051	M5	1.400	2.02	NO	82.4
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	5750		7.270	1.19	NO	98.2
17	PFHxS	355-46-4		398.926 > 80.295	6801		8.670		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	6314		10.243		na	102.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	105110		10.457	10.79	NO	104.6
21	PFOA	335-67-1		412.989 > 368.9	105110		10.457		na	
22	M8PFOA	INT STD	9.19	420.989 > 375.979	109471		9.738		na	97.4
23	M2PFOA	INT STD	9.19	415.032 > 369.968	114891		10.868		na	108.7
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	4543		10.363	9.85	NO	109.1
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	5537		8.172		na	81.7
26	PFHpS	375-92-8	9.28	448.926 > 80.257	5201		10.378	0.86	YES	109.2
27	PFNA	375-95-1	9.94	462.989 > 418.931	90734		9.831	4.55	NO	98.3
28	M9PFNA	INT STD	9.94	472.053 > 426.947	112654		10.184		na	101.8
29	br-PFOS	1763-23-1	9.80	498.989 > 80.294	1720	M5	1.724	4.24	NO	86.2
30	L-PFOS	1763-23-1	9.99	498.989 > 80.294	5687		7.613	1.50	YES	104.3
31	PFOS	1763-23-1		498.989 > 80.294	7407		9.338		na	
32	M4PFOS	INT STD	9.99	503.032 > 80.306	7630		10.925		na	109.2
33	M8PFOS	INT STD	9.99	507.053 > 80.294	7611		9.722		na	97.2
34	PFDA	335-76-2	10.57	513.053 > 468.906	86873		10.017	7.04	NO	100.2
35	M2PFDA	INT STD	10.57	515.053 > 469.934	99233		11.239		na	112.4
36	M6PFDA	INT STD	10.57	519.053 > 473.931	101095		9.857		na	98.6
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	3723		9.890		na	103.0
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	3572		8.987		na	89.9
39	PFNS	68259-12-1	10.60	548.989 > 80.249	7010		9.902	1.23	NO	103.1

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Time: 11:26:51
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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.096 > 418.987	10699		9.160		na	91.6
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	9818		9.846	2.79	NO	98.5
43	NMeFOSAA	2355-31-9		570.053 > 418.917	9818		9.846		na	
44	PFUnA	2058-94-8	11.11	562.989 > 518.903	88904		9.957	8.09	NO	99.6
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	93371		10.262		na	102.6
46	PFDS	335-77-3	11.12	598.926 > 80.314	5333		10.538	0.94	NO	109.2
47	FOSA	754-91-6	11.01	497.989 > 78.245	23947		9.769	147.69	NO	97.7
48	M8FOSA	INT STD	11.01	506.053 > 78.286	23068		9.513		na	95.1
49	d5-NEtFOSAA	INT STD	11.24	589.117 > 418.929	9223		8.939		na	89.4
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	8886		10.205	2.73	NO	102.1
52	NEtFOSAA	2991-50-6		583.989 > 418.927	8886		10.205		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	85750		10.516	13.86	NO	105.2
54	MPFDOA	INT STD	11.59	614.989 > 569.92	96275		9.432		na	94.3
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	69475		10.654	10.35	NO	106.5
56	PFTA	376-06-7	12.36	713.053 > 668.976	63347		10.427	9.29	NO	104.3
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	75865		9.357		na	93.6
58	M3HFPO-DA	INT STD	7.42	331.989 > 286.995	4823		97.911		na	49.0
59	HFPO-DA	13252-13-6	7.42	284.819 > 169.094	8056		201.196	2.76	YES	100.6
60	ADONA	958445-44-8	8.43	376.926 > 251.005	142939		9.932		na	105.0
61	PFHxDA		12.78	813.053 > 769.005	56901		8.061		na	80.6
62	PFODA		12.99	912.989 > 869.032	38946		7.529		na	75.3
63	M2PFHxDA		12.78	815.372 > 770.158	19278		11.170		na	111.7
64	PFDoS		11.99	698.649 > 79.853	5766		11.178	1.86	YES	111.8
65	10:2FTS		11.60	626.862 > 606.896	3399		9.346		na	96.9
66	9CL-PF3ONS		10.34	530.862 > 350.843	47426		9.481		na	101.7
67	11CL-PFOUdS		11.38	630.862 > 450.854	39060		9.263		na	98.3
68	NMeFOSA		11.62	511.804 > 168.906	8669		10.184	1.38	NO	101.8
69	d3-NMeFOSA		11.62	514.84 > 168.917	11452		9.056		na	90.6
70	NEtFOSA		11.92	525.84 > 168.92	9820		9.587	6.55	YES	95.9
71	d5-NEtFOSA		11.91	530.904 > 168.919	11690		9.451		na	94.5
72	NMeFOSE		11.62	615.862 > 58.9	10782		9.298		na	93.0
73	d7-NMeFOSE		11.61	622.84 > 58.964	5732		9.678		na	96.8
74	NEtFOSE		11.91	629.862 > 58.899	12373		10.043		na	100.4
75	d9-NEtFOSE		11.89	638.734 > 58.964	3121		9.012		na	90.1

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Printed: Monday, November 18, 2019 13:42:55 Eastern Standard Time

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ID: IA2-537STD10.0
Date: 18-Nov-2019
Time: 11:26:51
Description: WG1310082,,537_190904_4
User: LCMS02:JW
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEB0050
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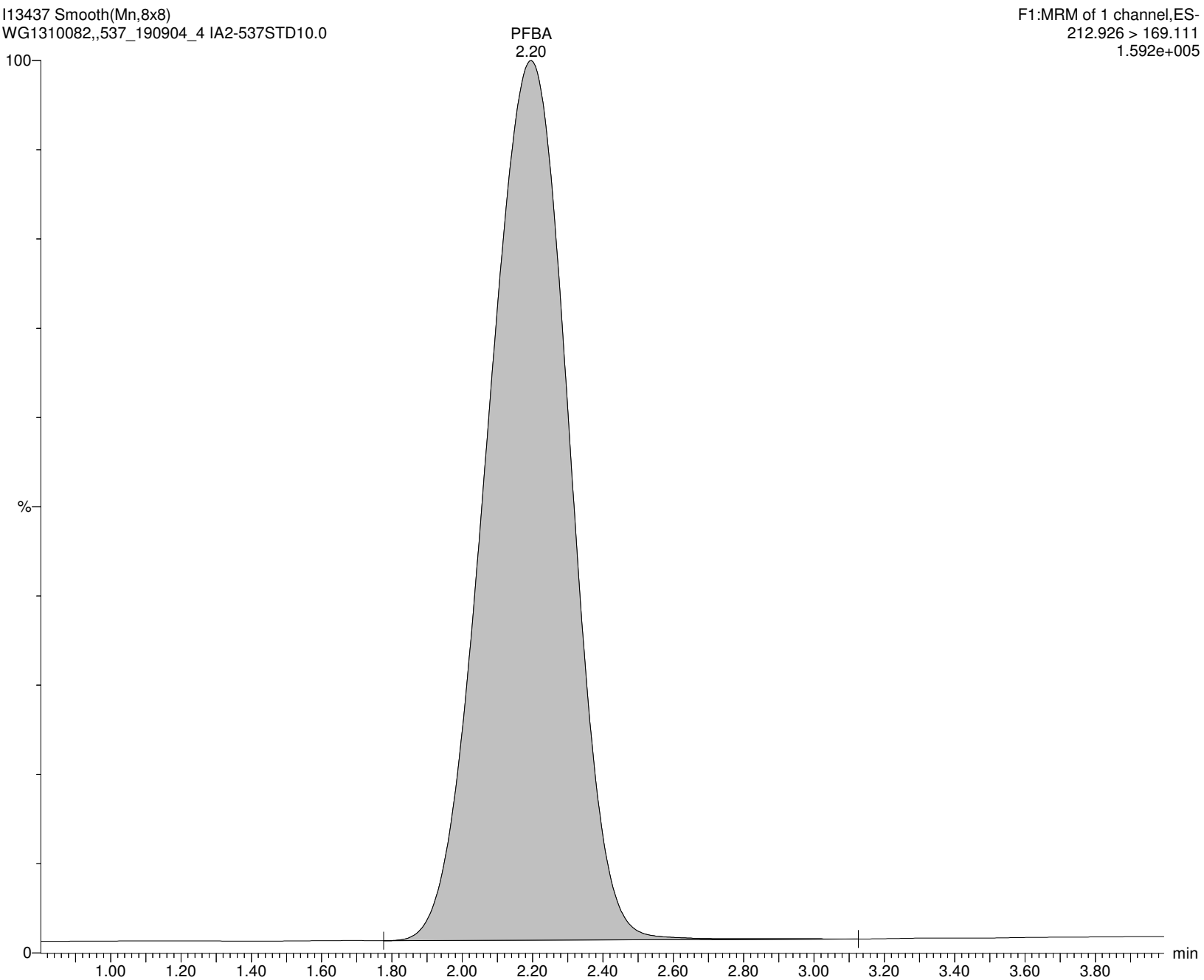

all concentration units in (ng/mL)

Alpha Analytical Inc.
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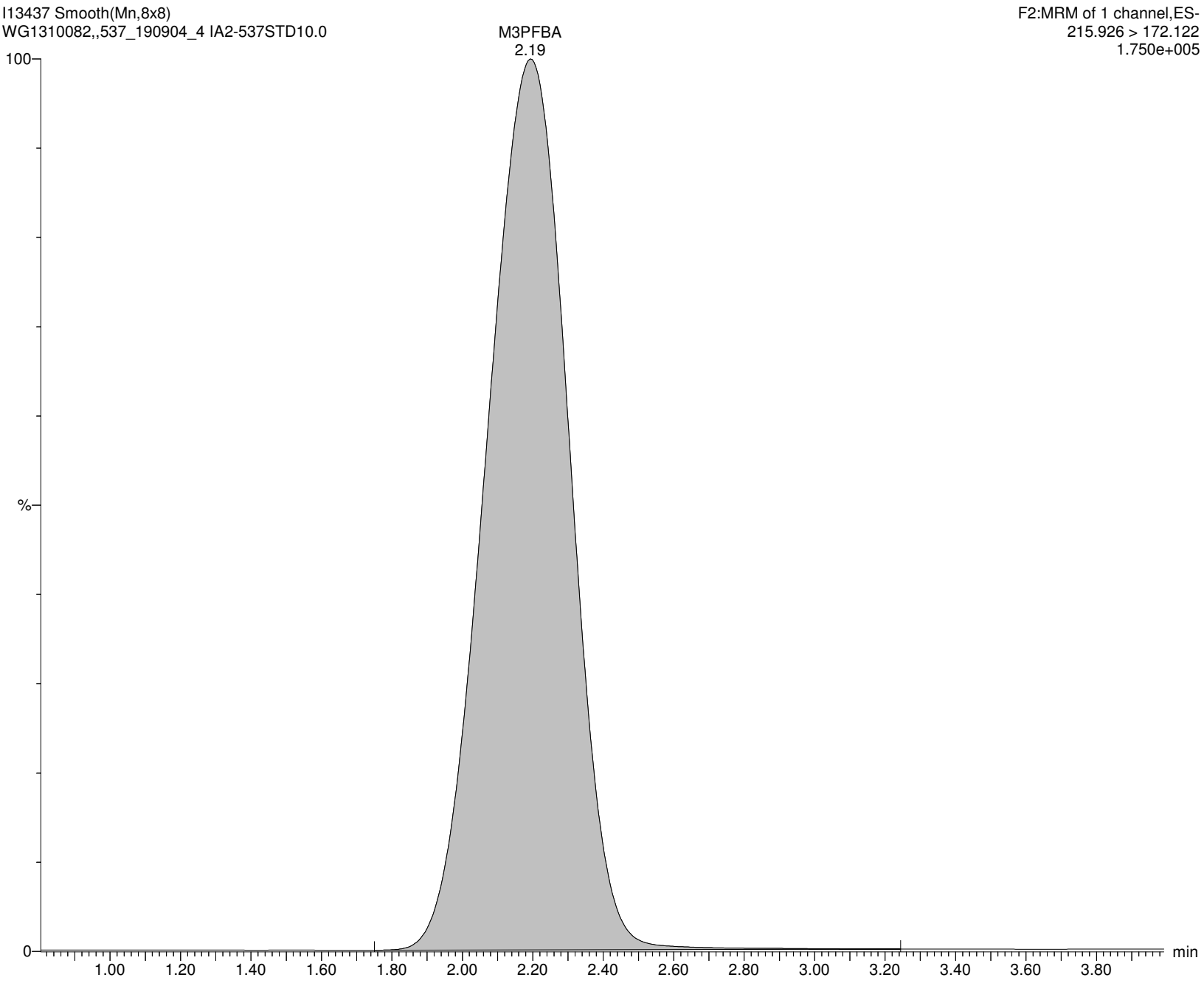

all concentration units in (ng/mL)

Alpha Analytical Inc.
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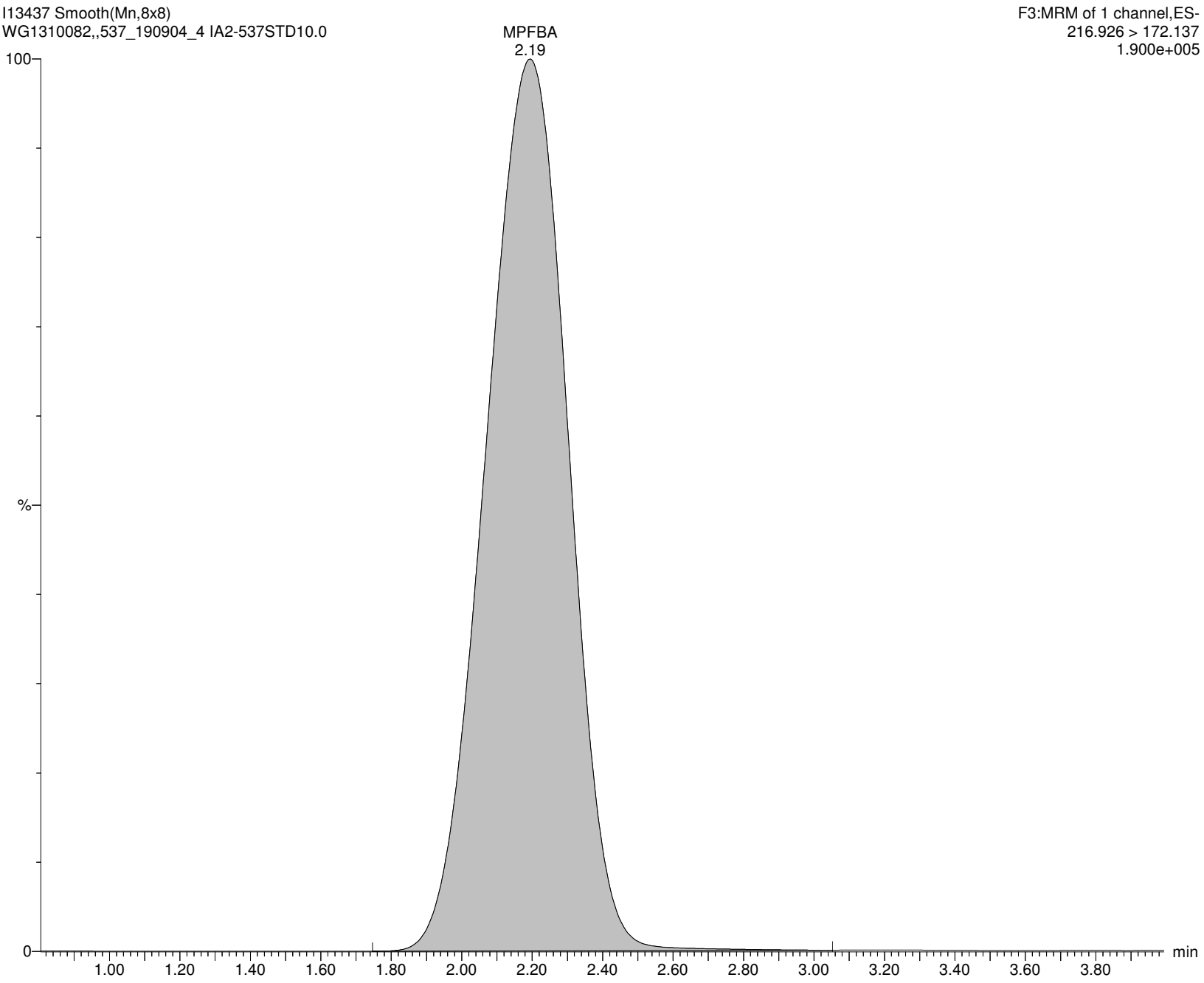

all concentration units in (ng/mL)

Alpha Analytical Inc.
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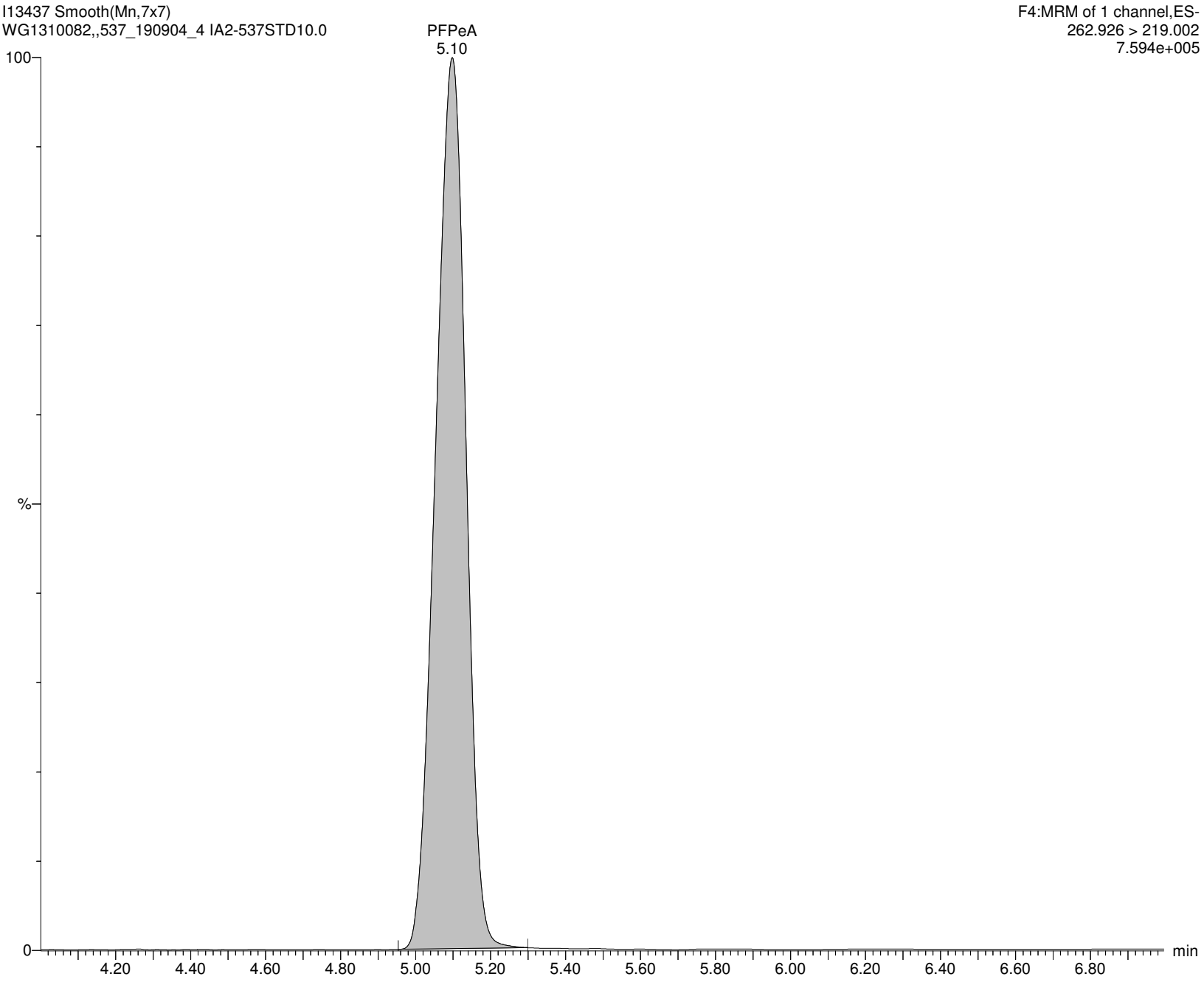

all concentration units in (ng/mL)

Alpha Analytical Inc.
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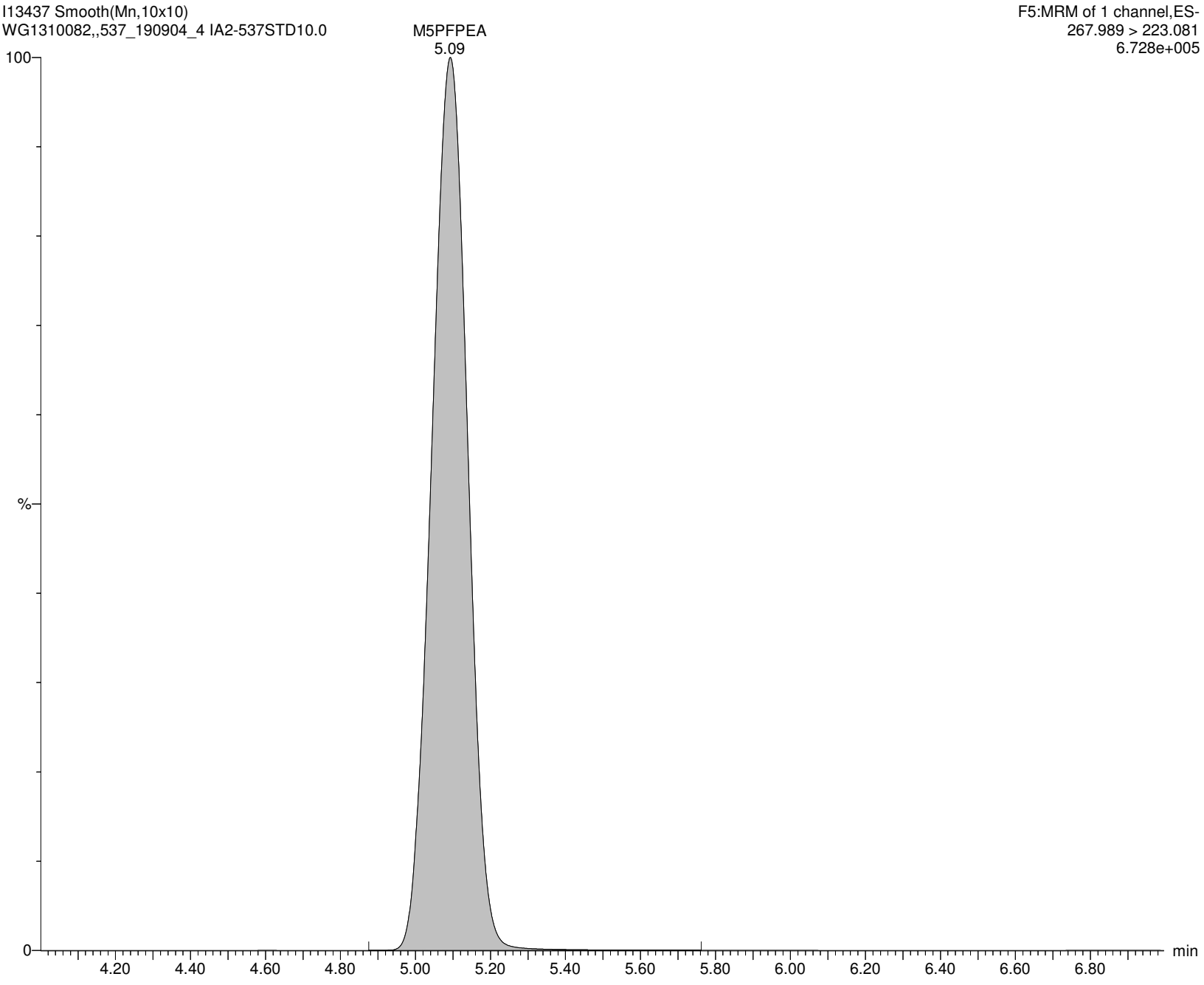

all concentration units in (ng/mL)

Alpha Analytical Inc.
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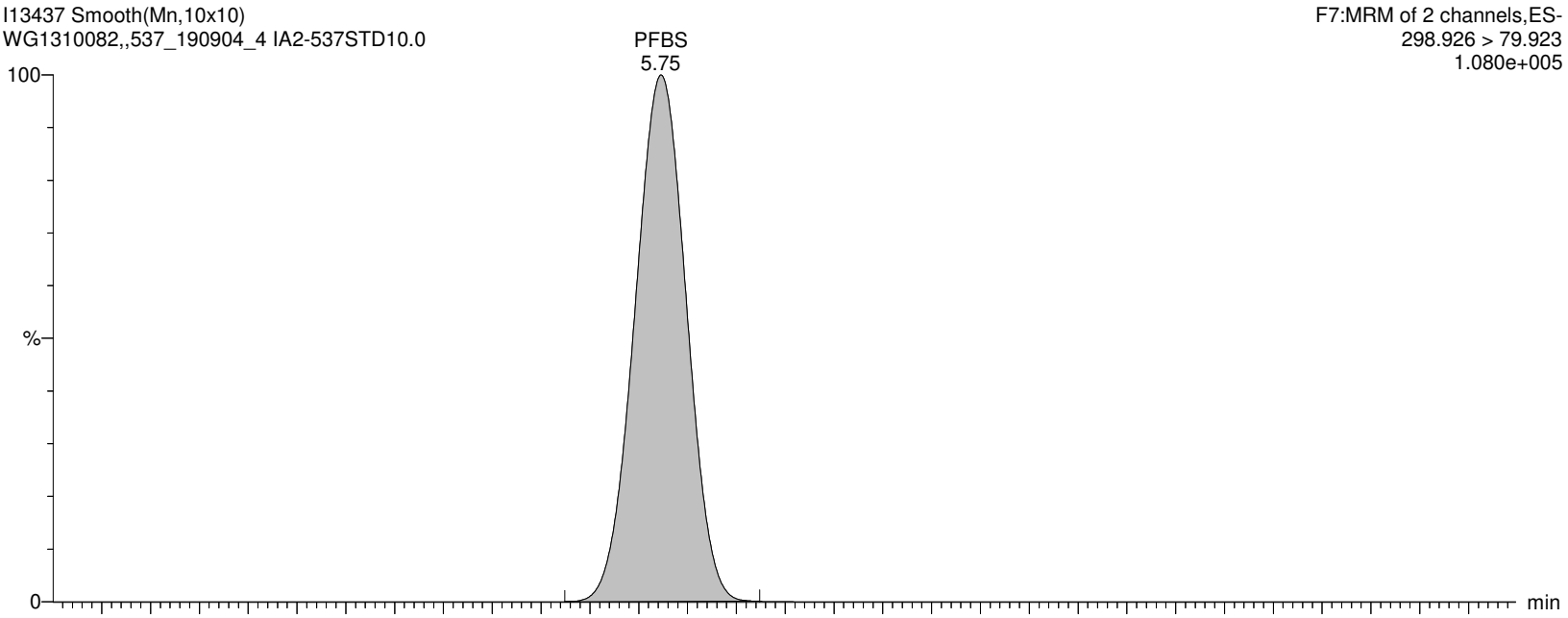

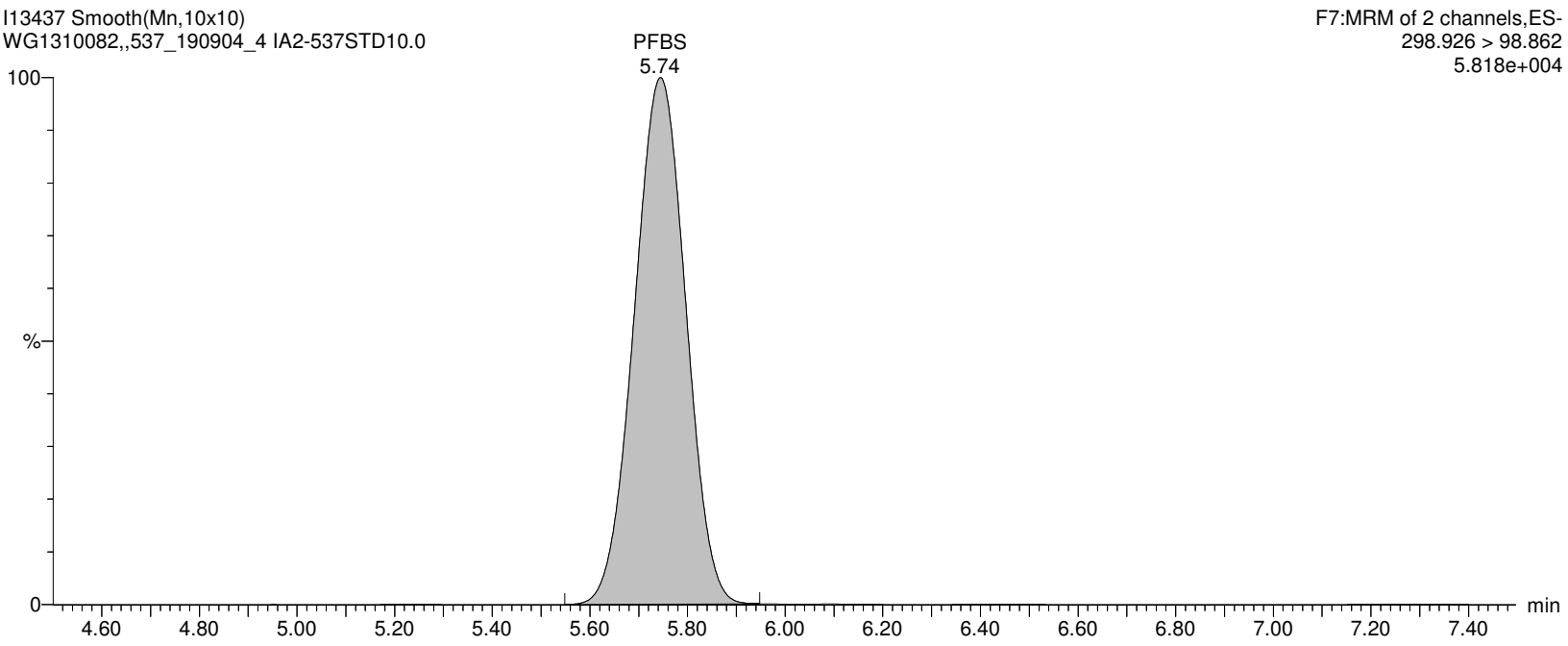

all concentration units in (ng/mL)

Alpha Analytical Inc.
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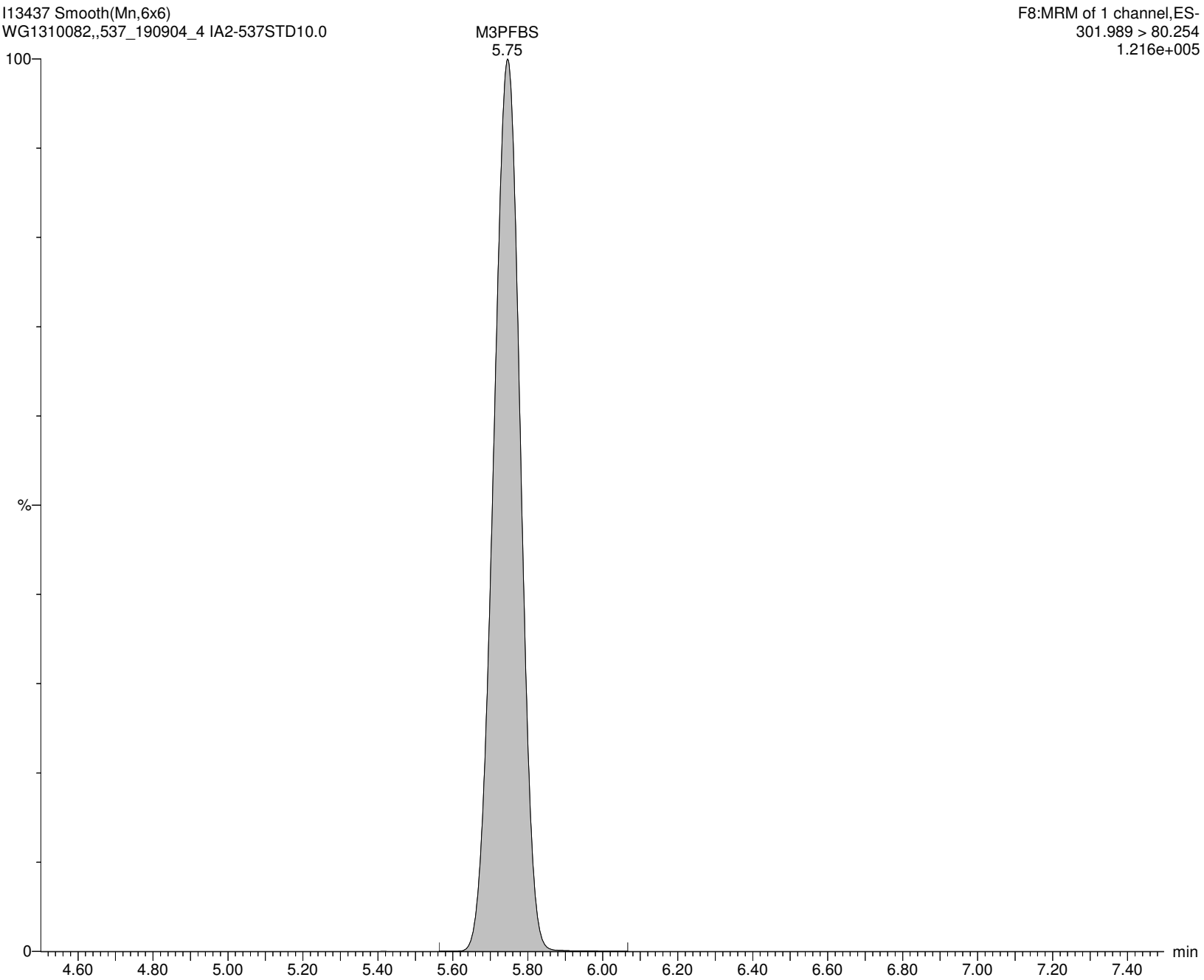

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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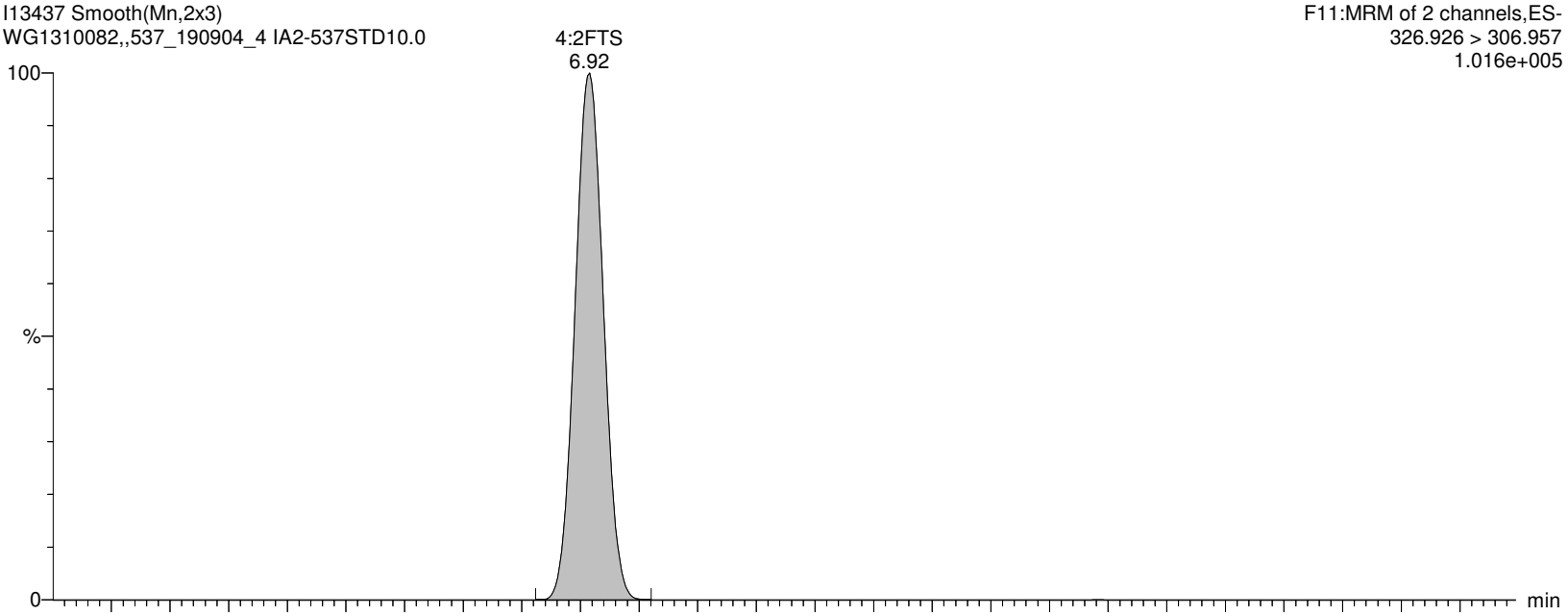

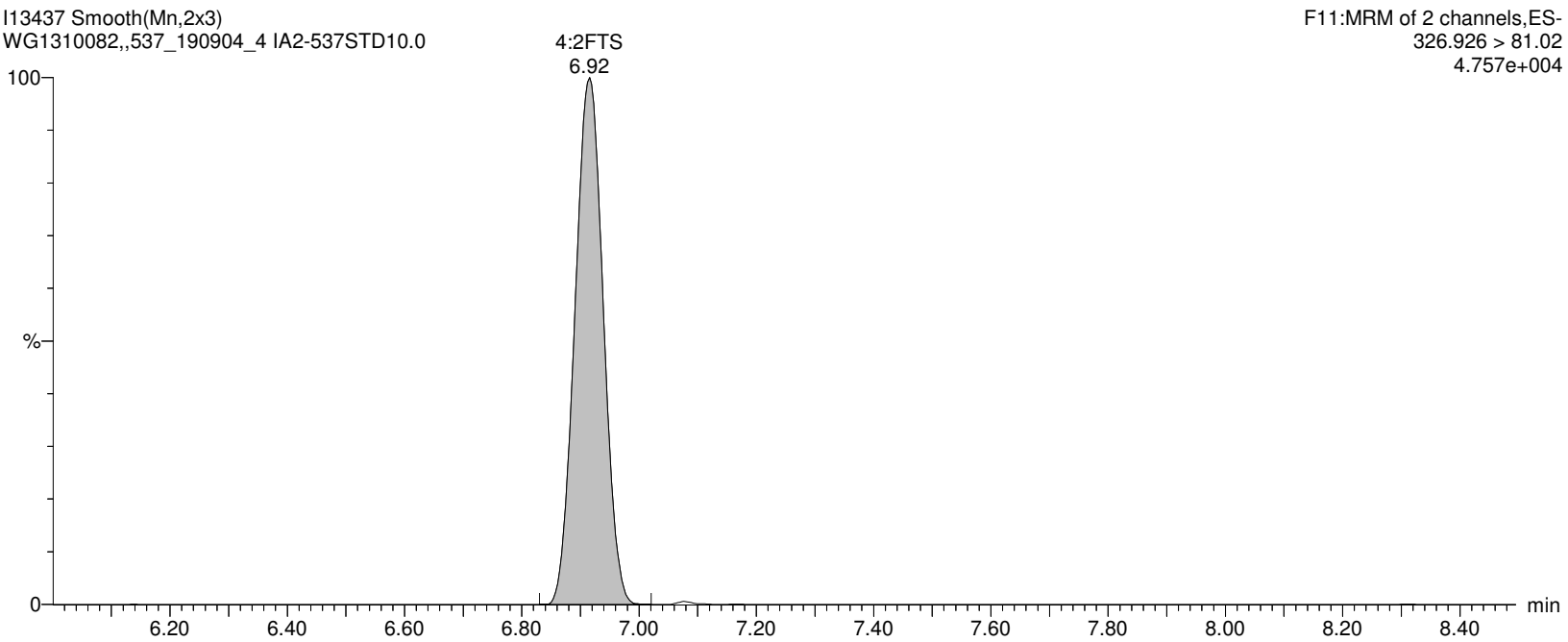

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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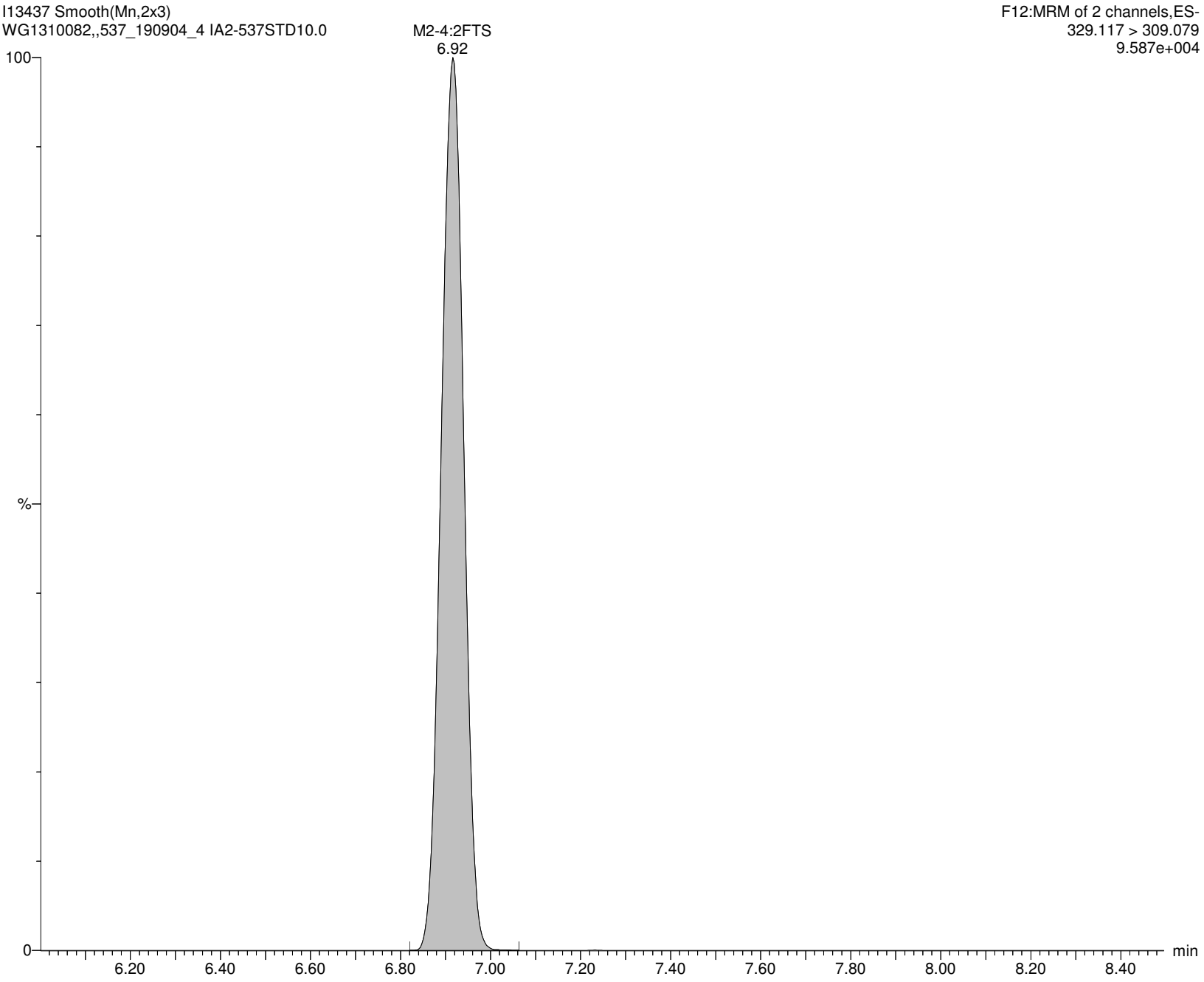

all concentration units in (ng/mL)

Alpha Analytical Inc.
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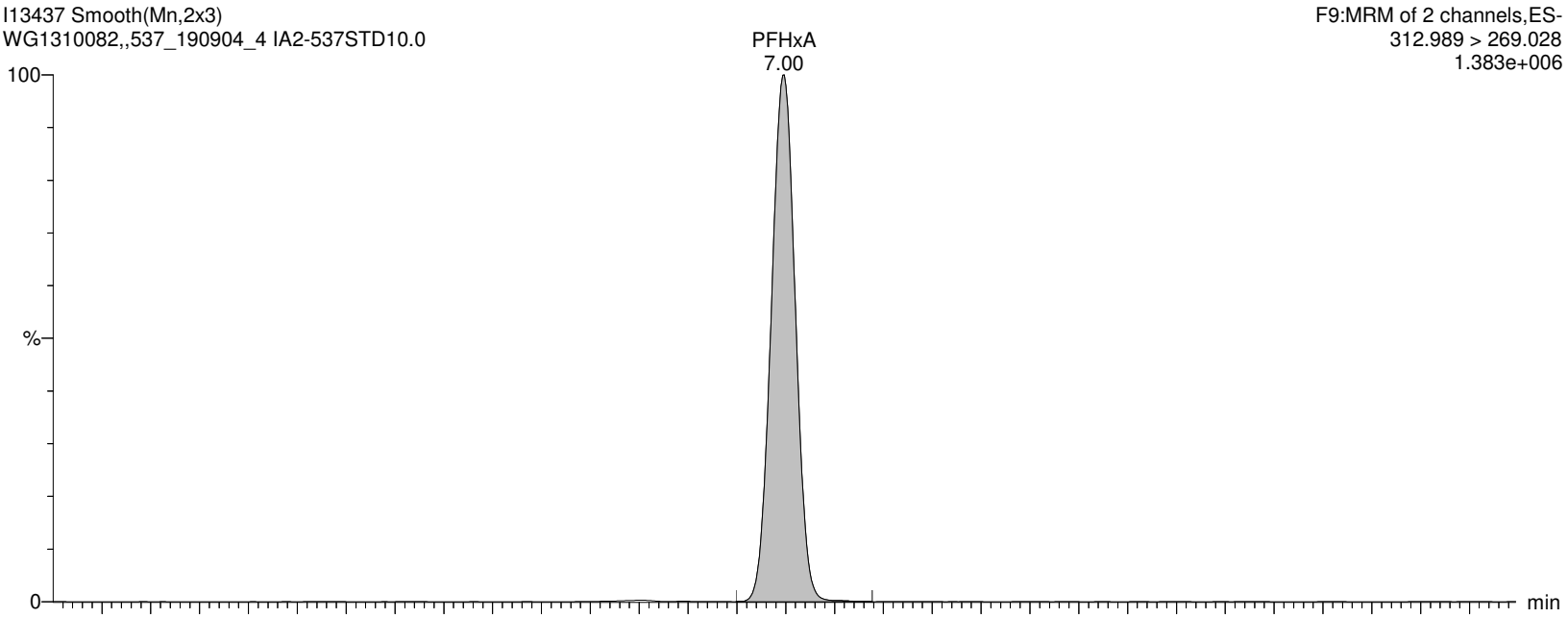

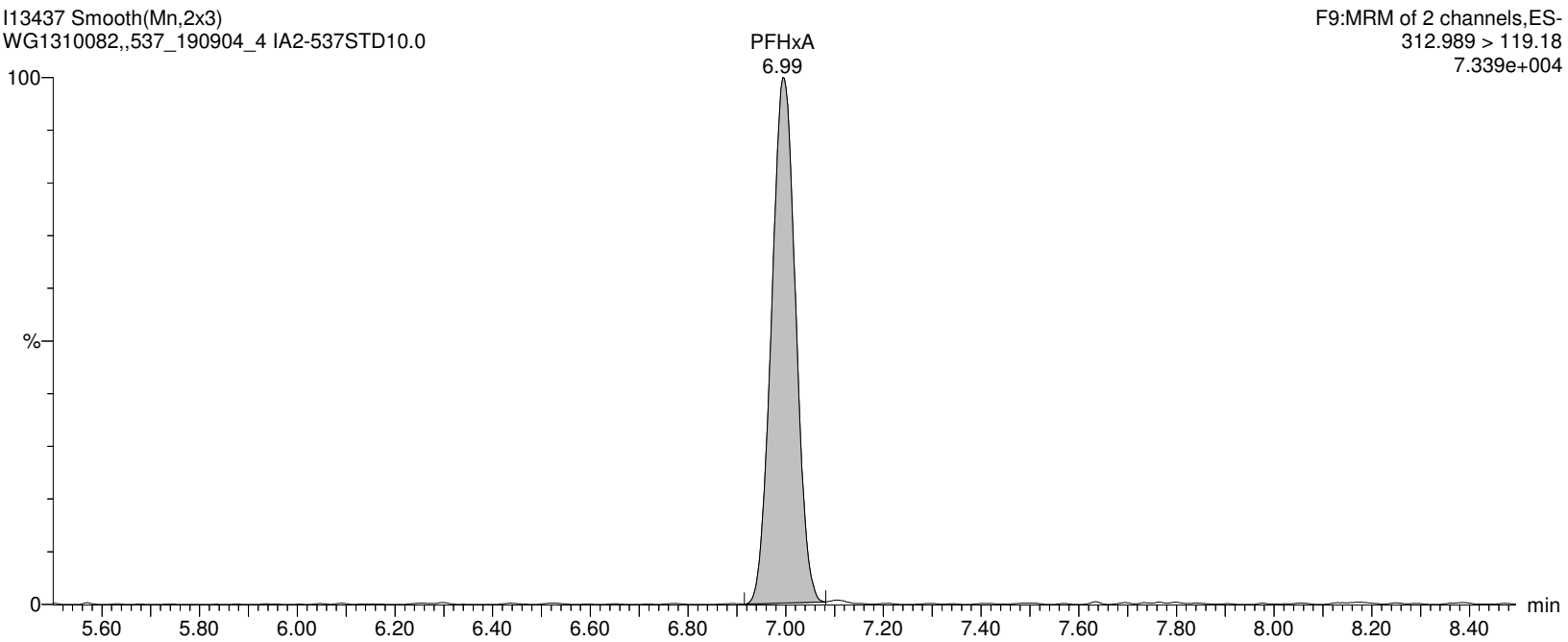

all concentration units in (ng/mL)

Alpha Analytical Inc.
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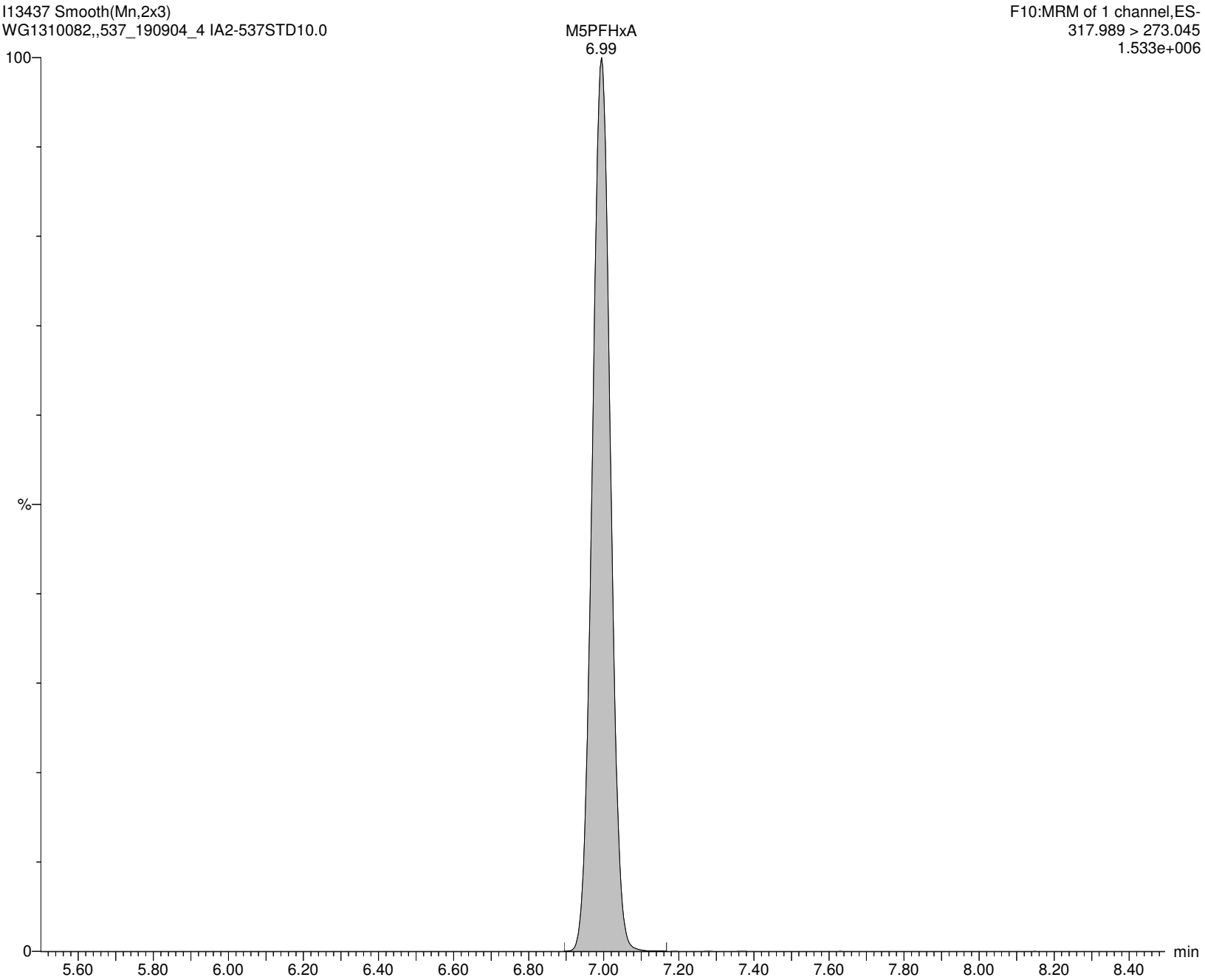

all concentration units in (ng/mL)

Alpha Analytical Inc.
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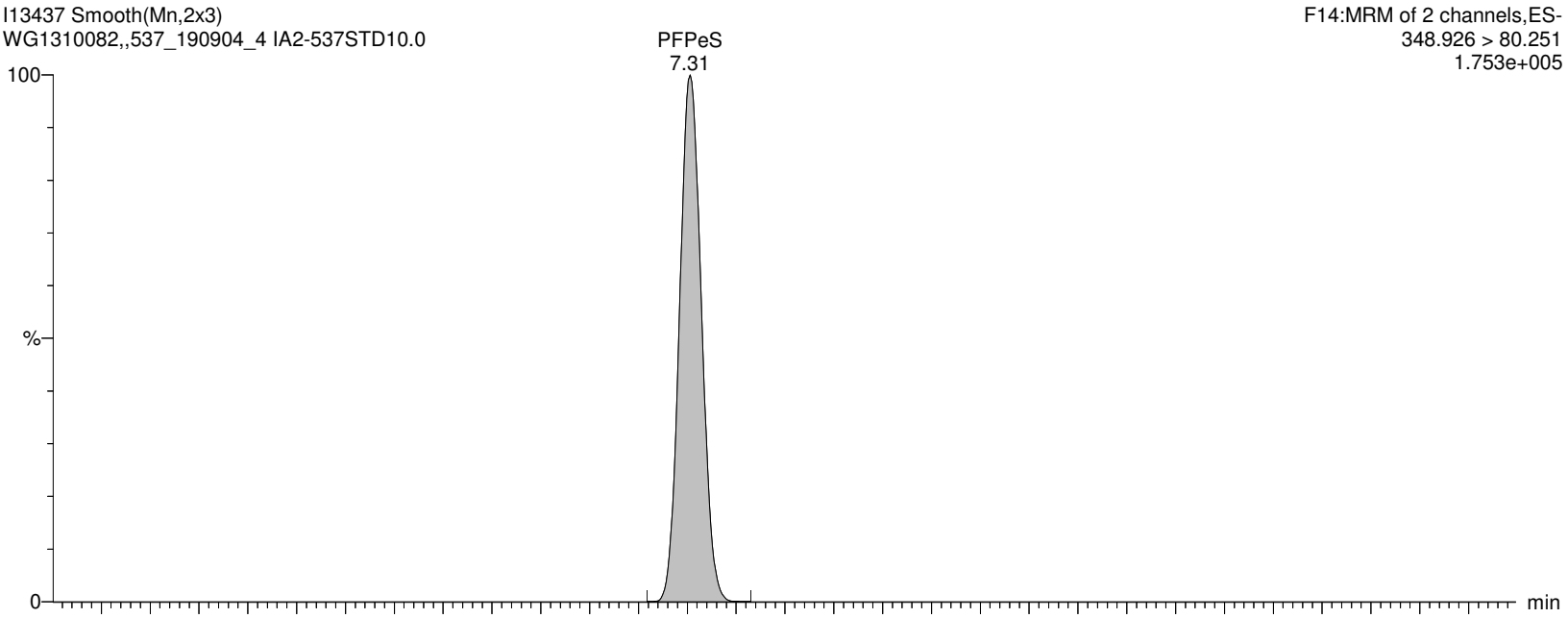

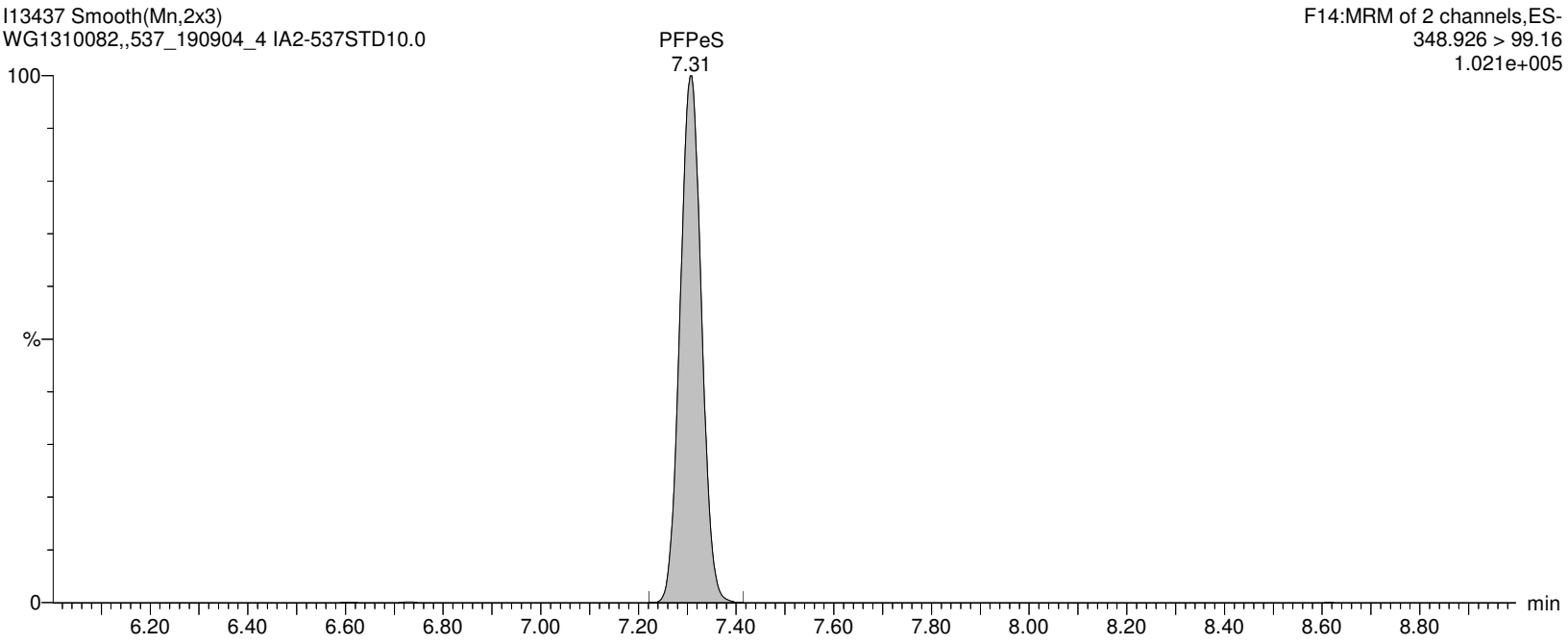

all concentration units in (ng/mL)

Alpha Analytical Inc.
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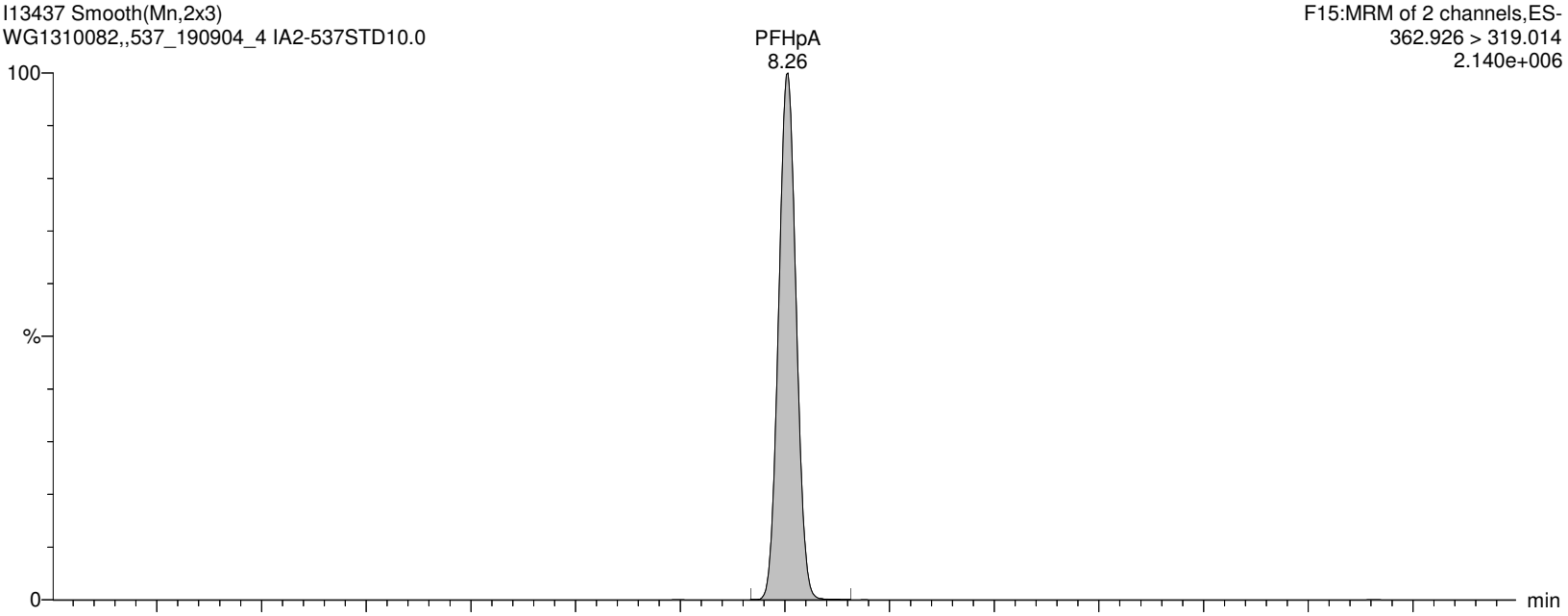
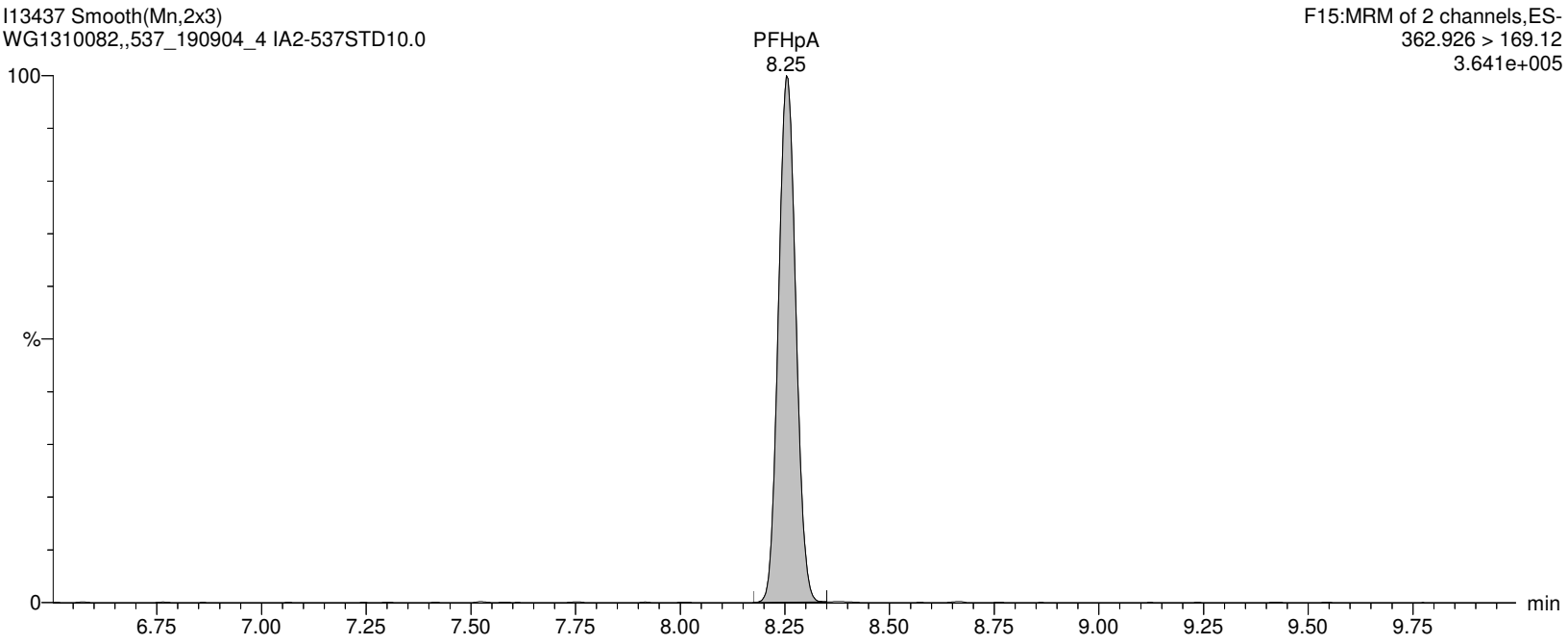
PFHpA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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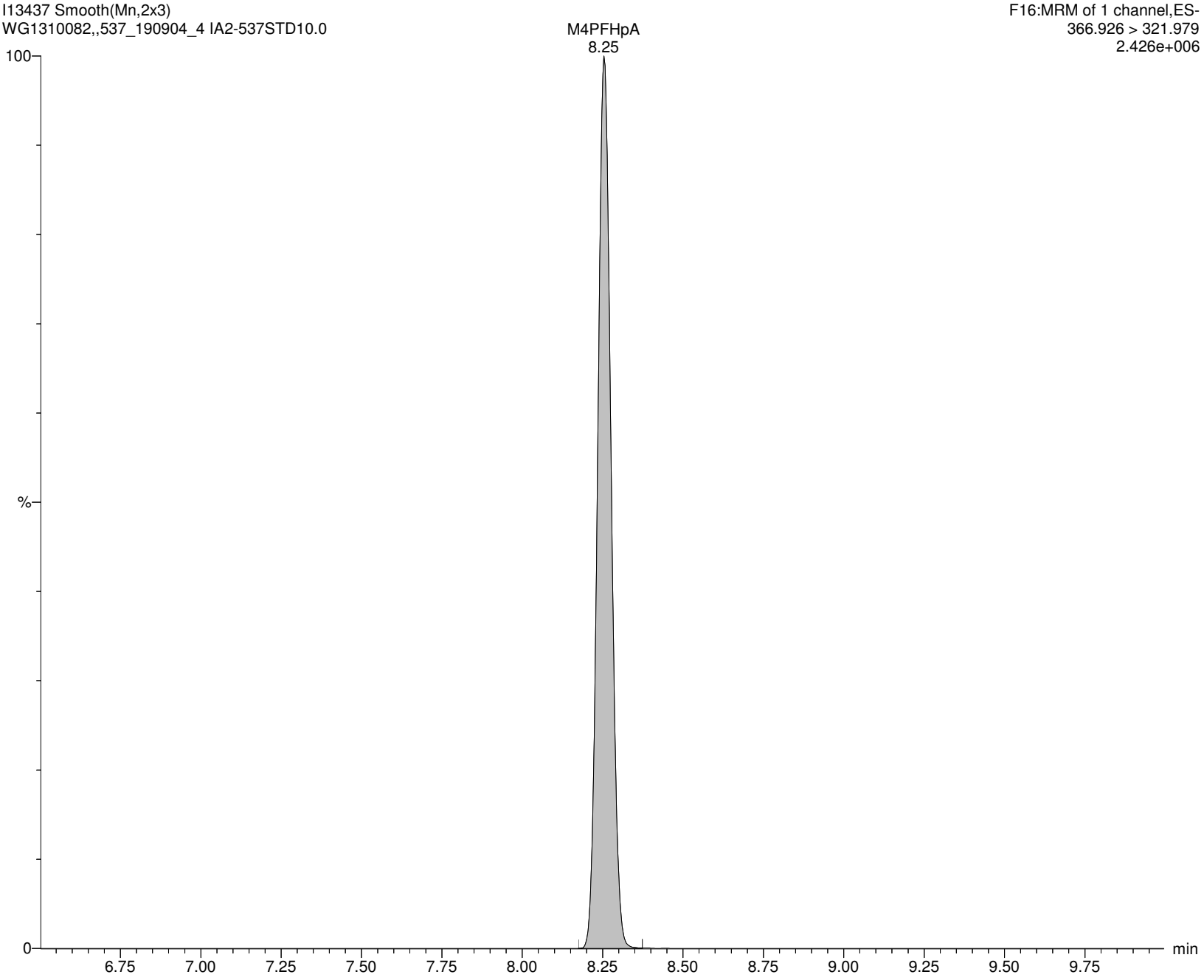

all concentration units in (ng/mL)

Alpha Analytical Inc.
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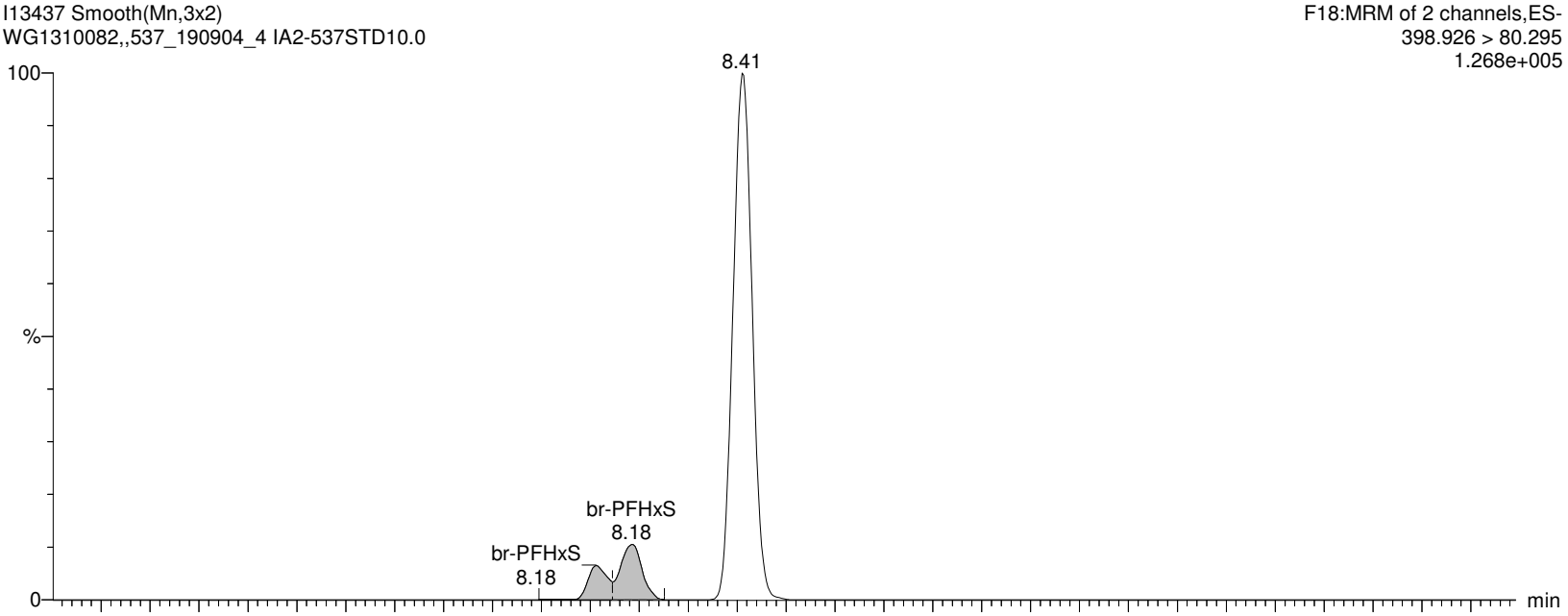

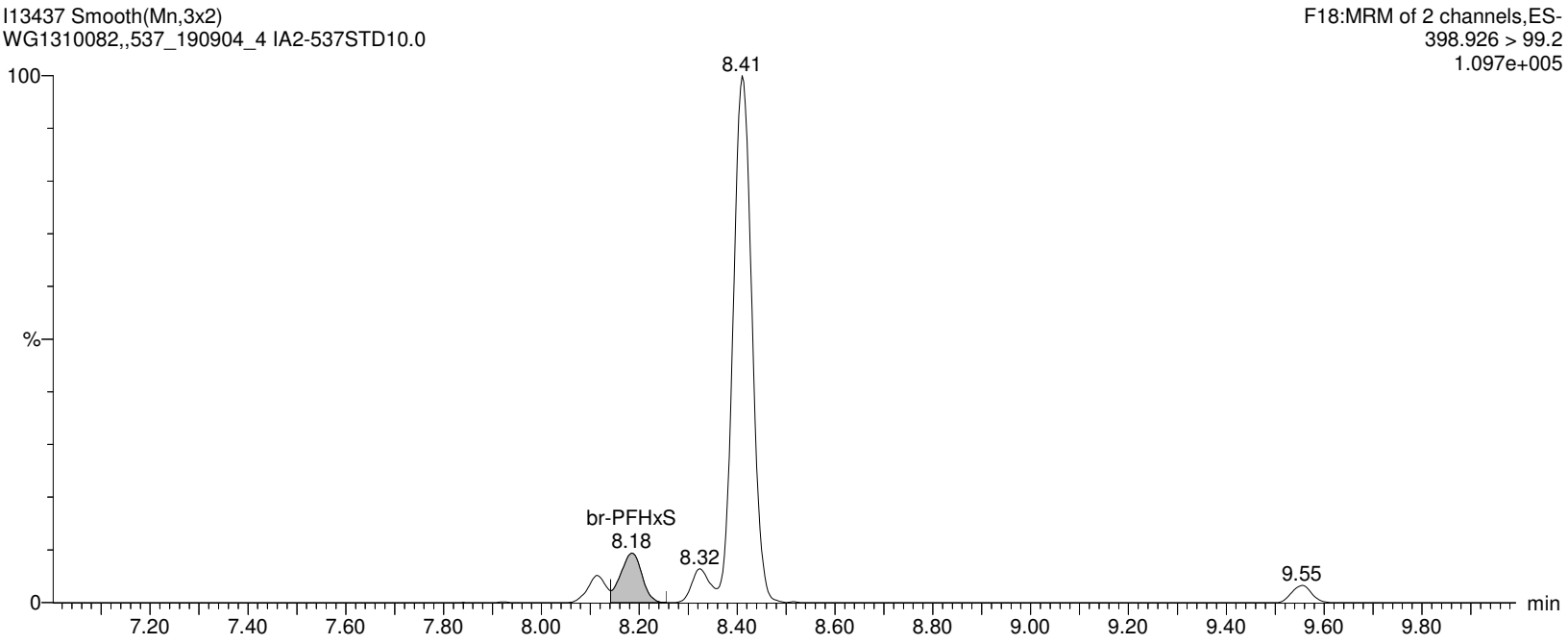

all concentration units in (ng/mL)

Alpha Analytical Inc.
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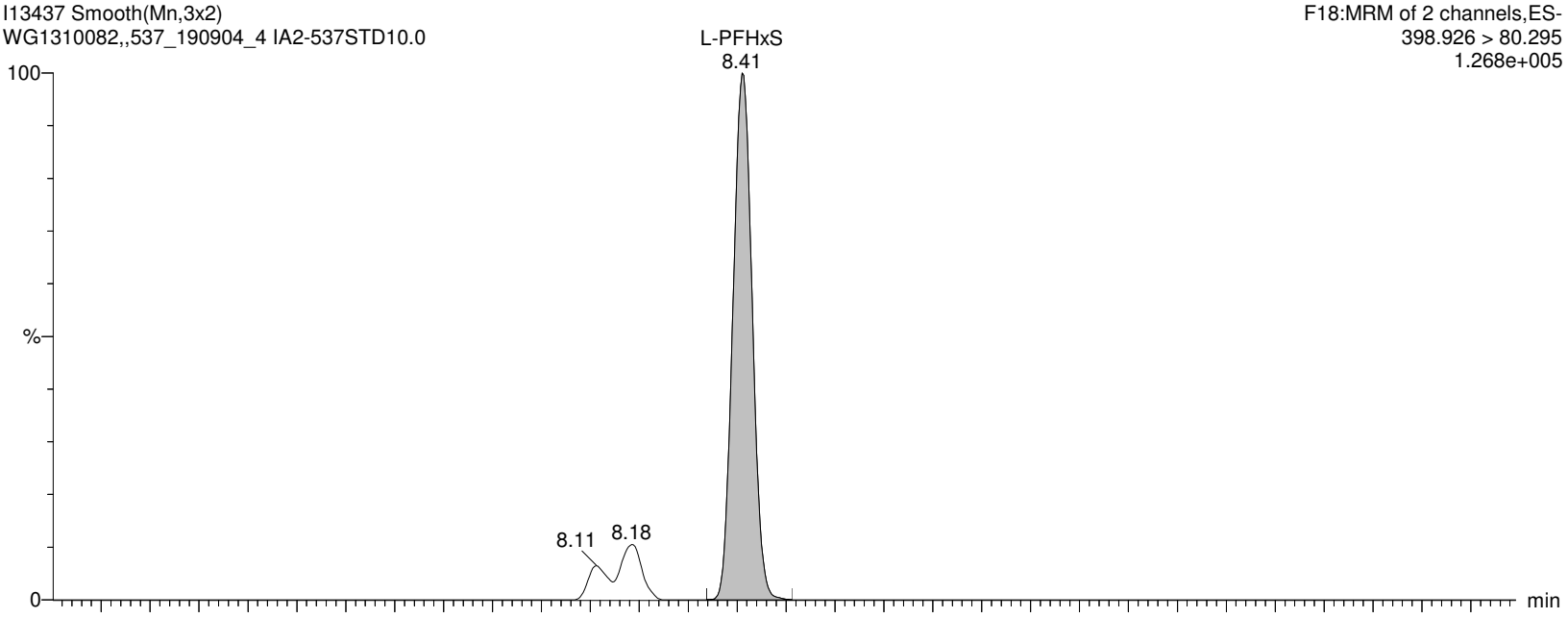
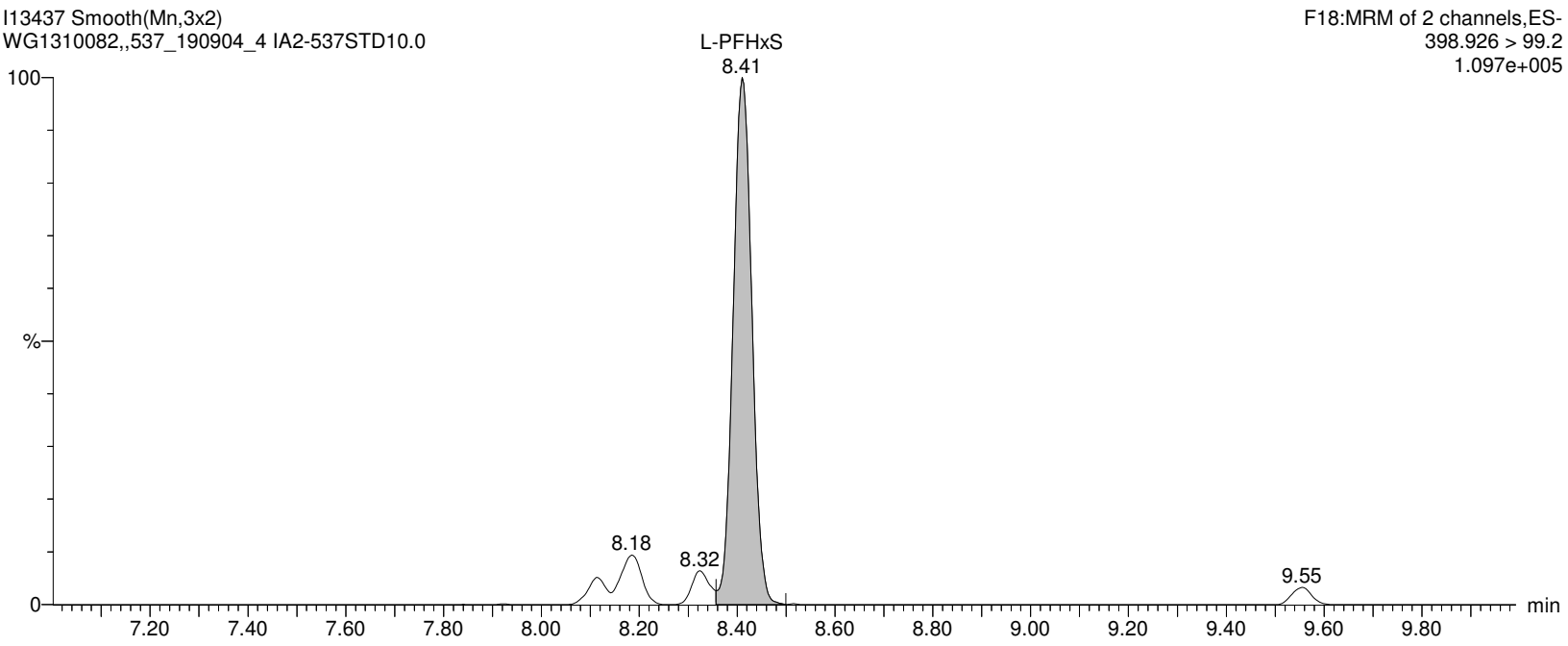
L-PFHxS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:55 Eastern Standard Time

Name: I13437
ID: IA2-537STD10.0
Date: 18-Nov-2019
Time: 11:26:51
Description: WG1310082,,537_190904_4
User: LCMS02:JW
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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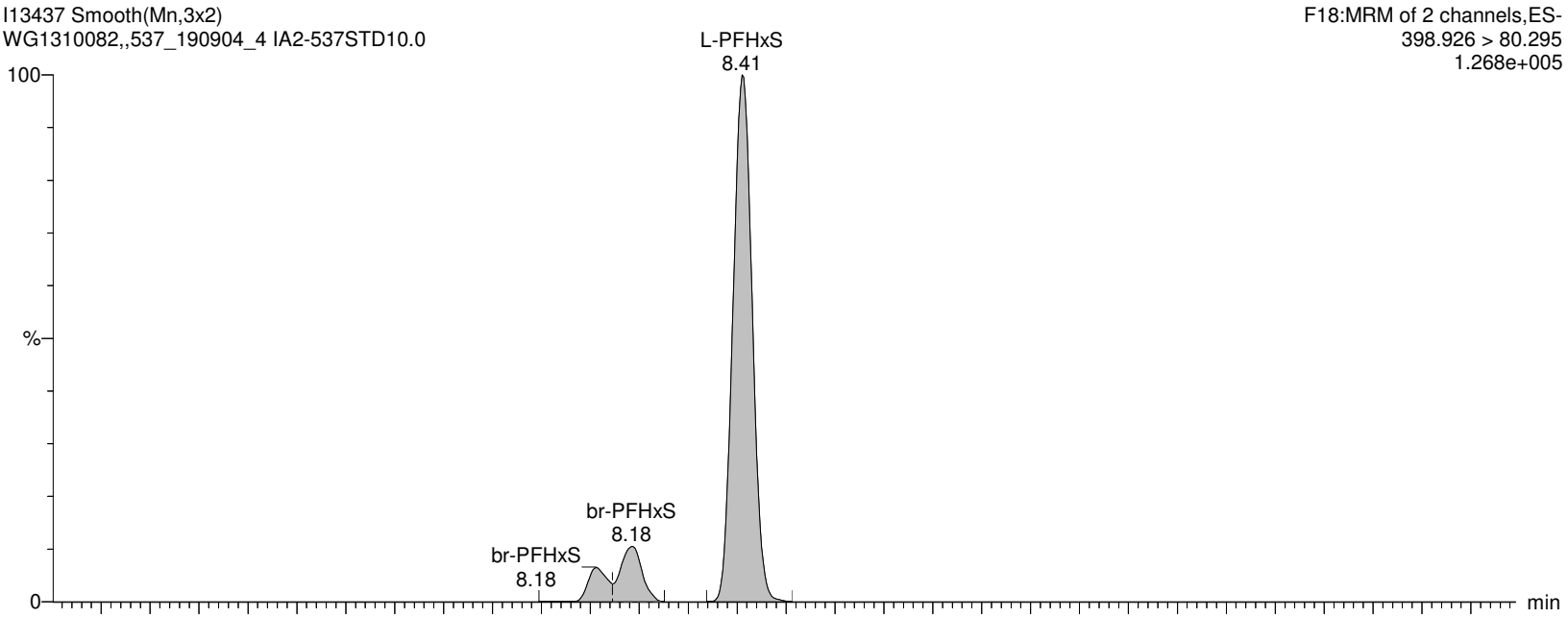

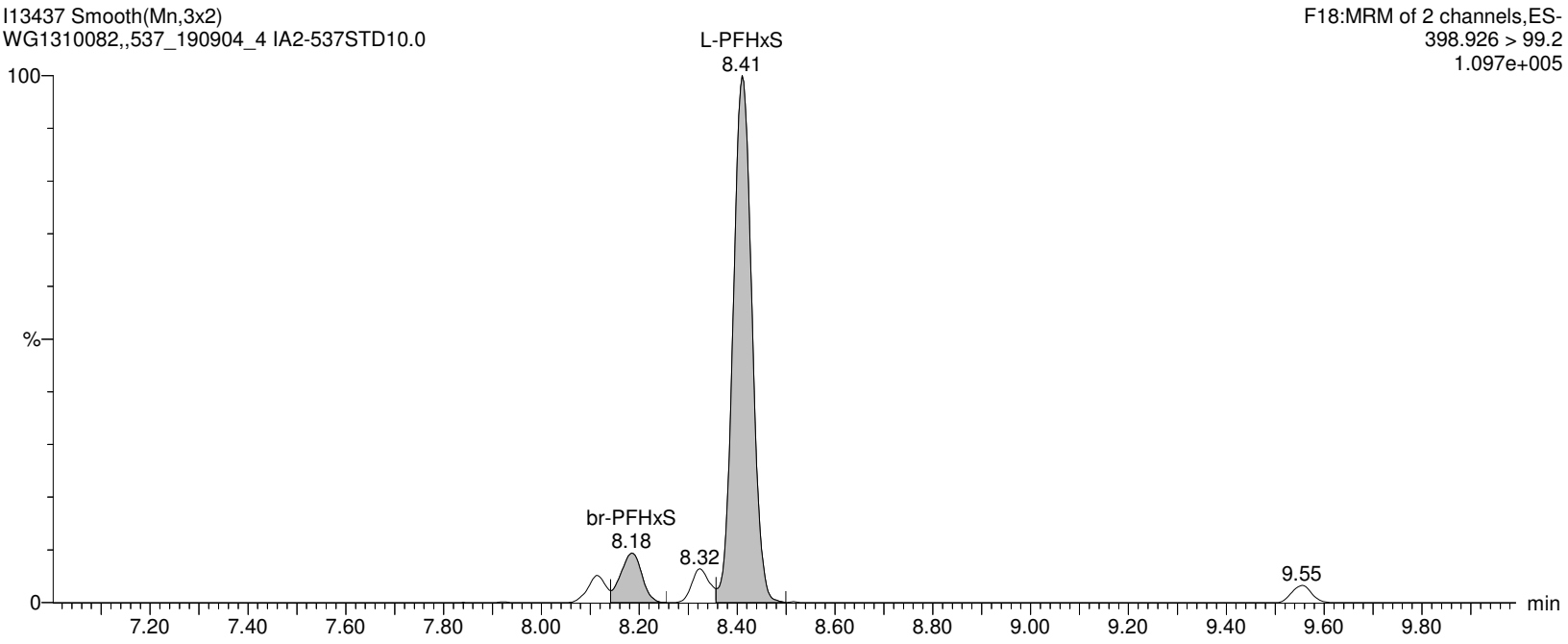

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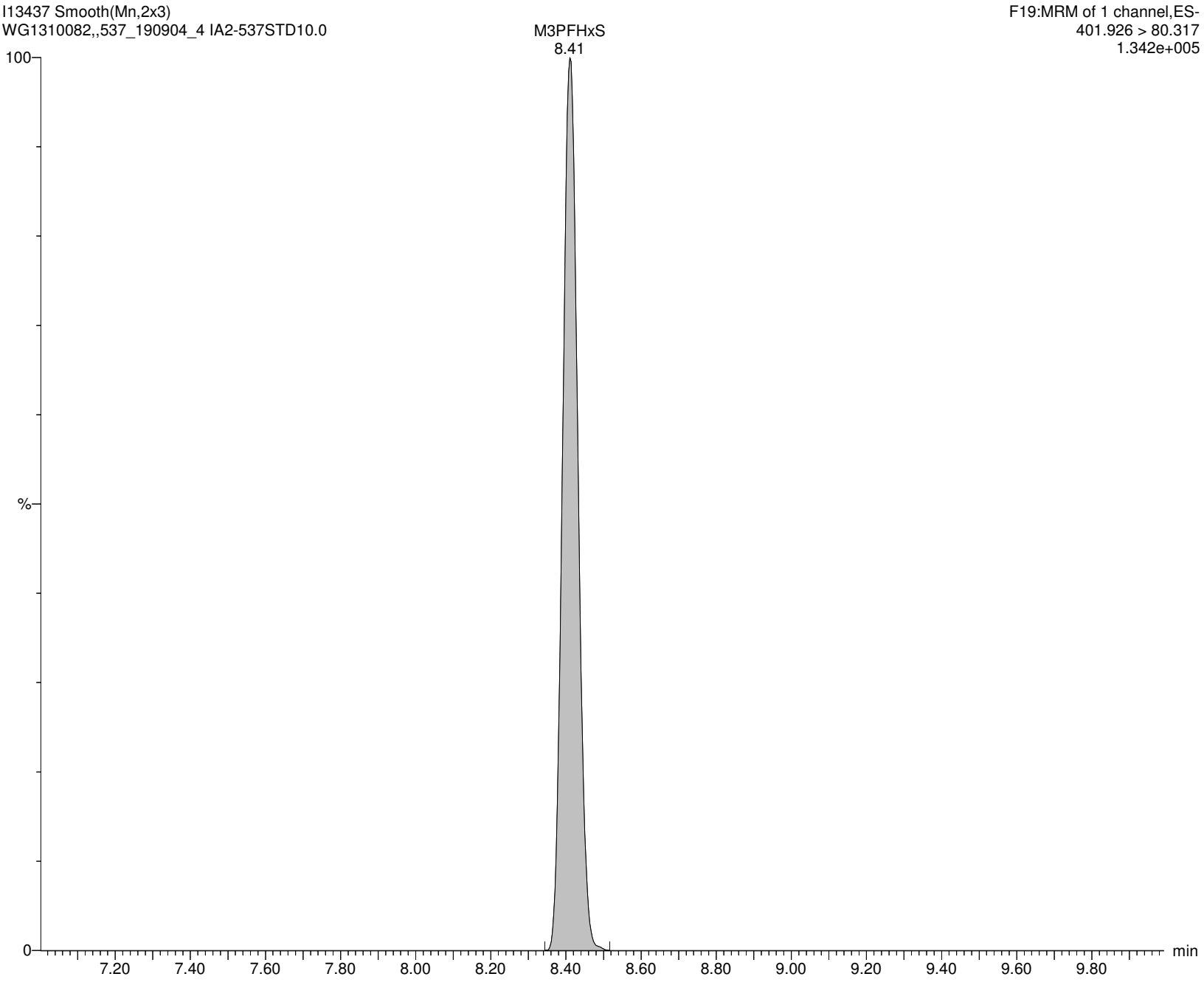

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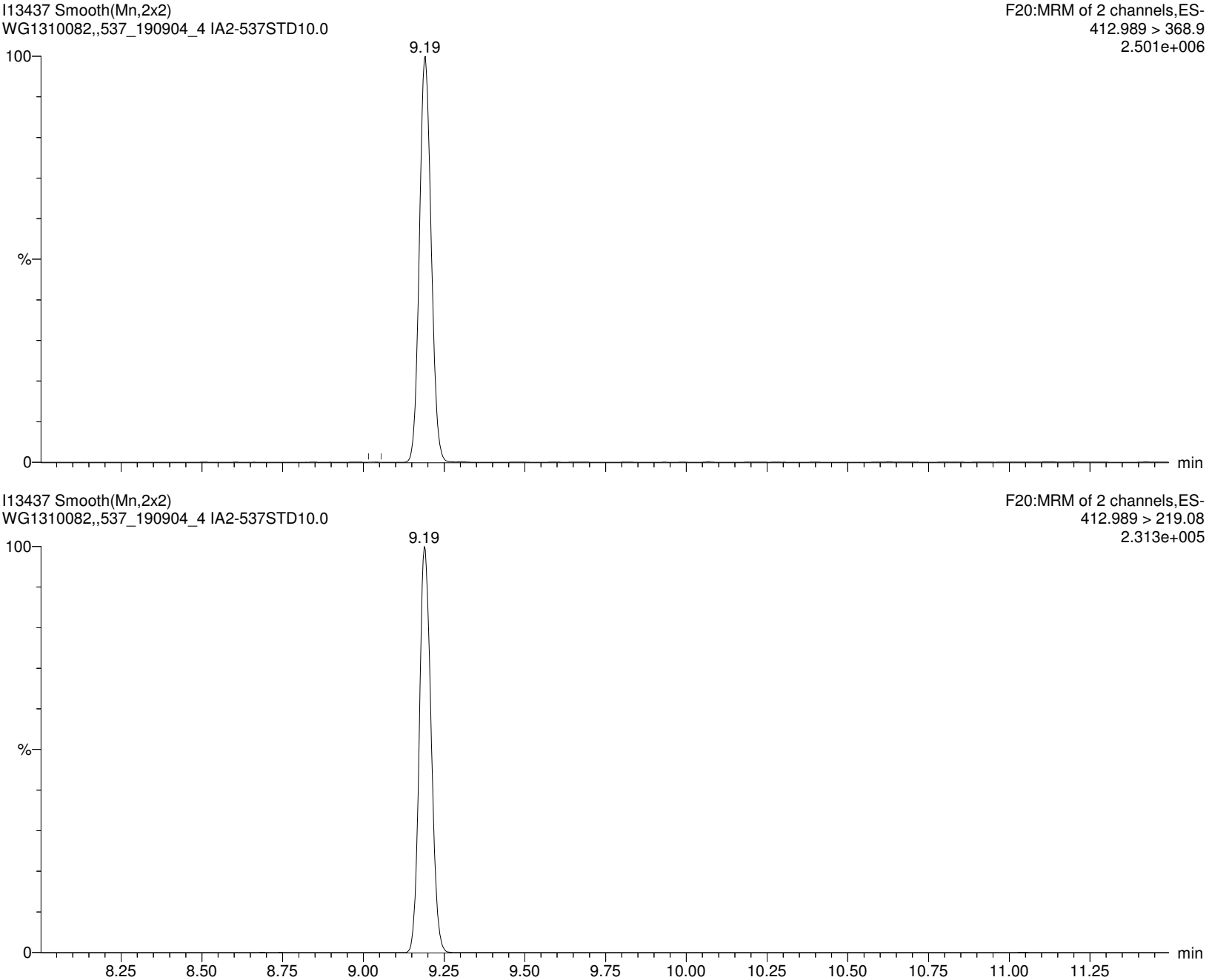

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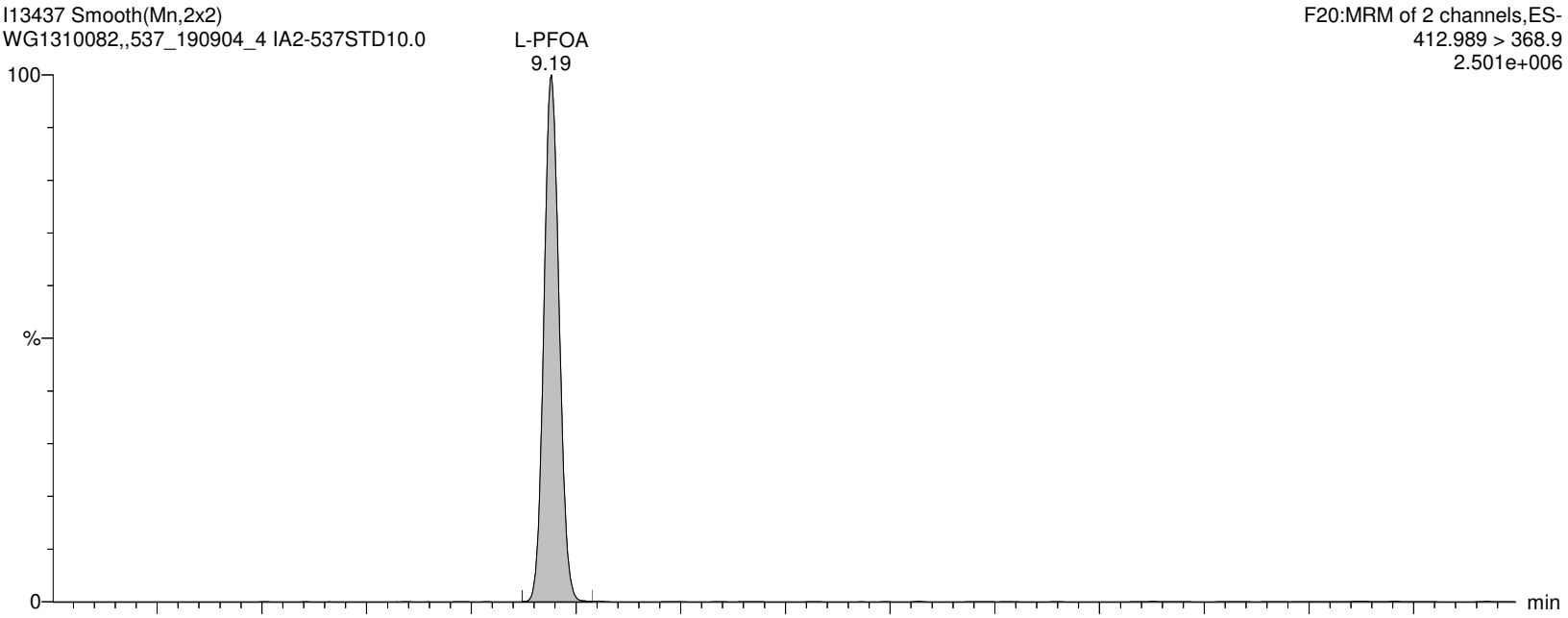

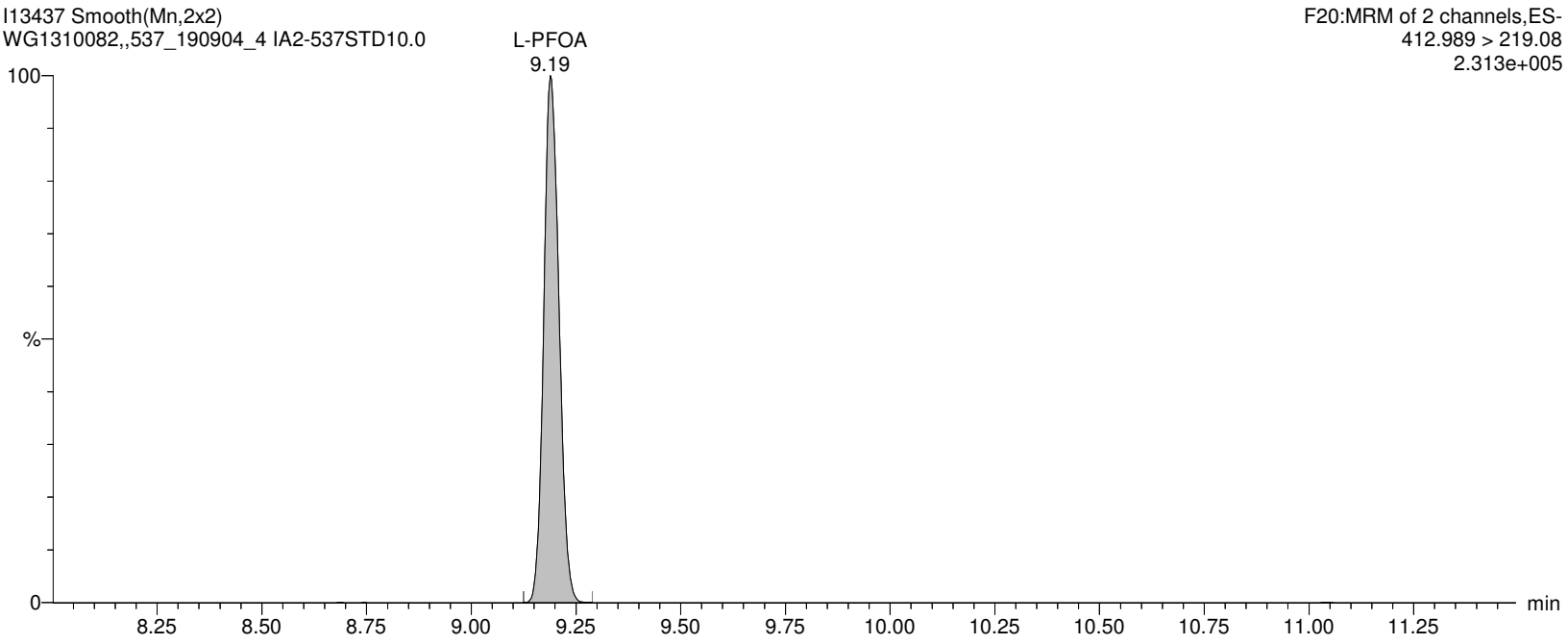

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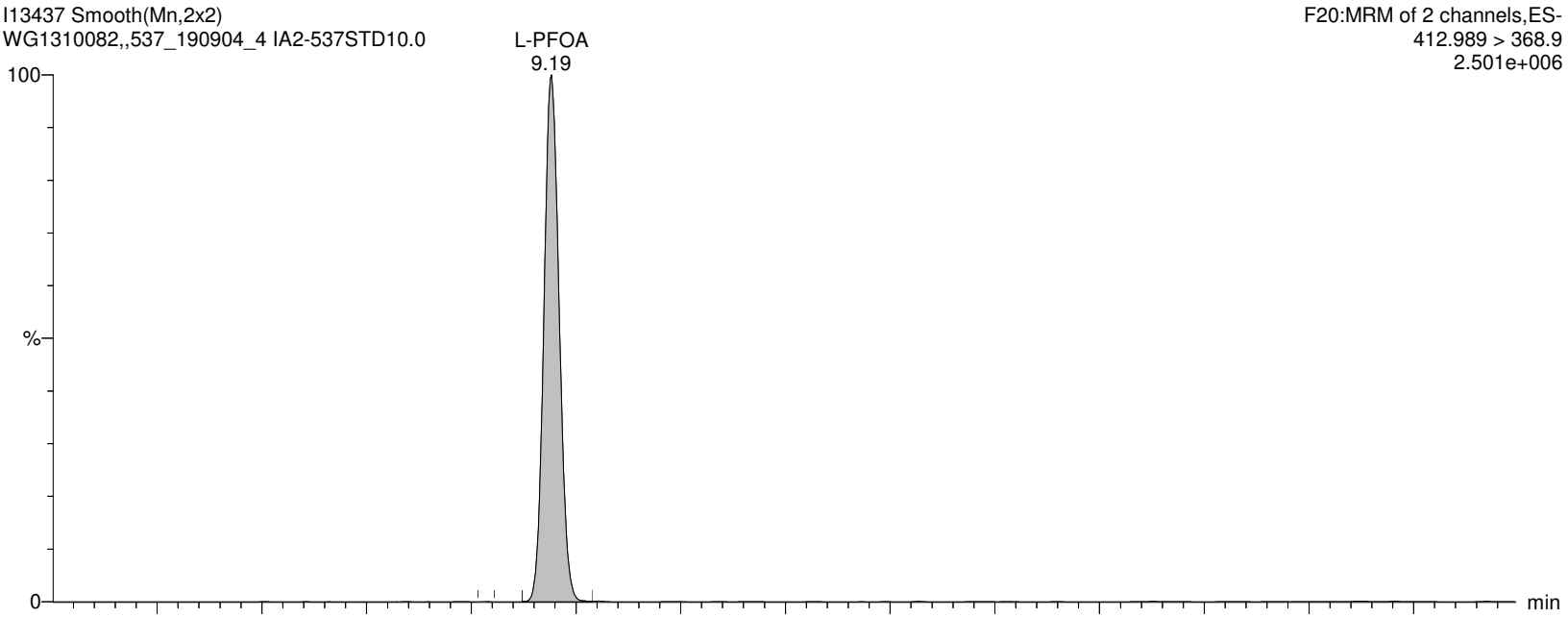

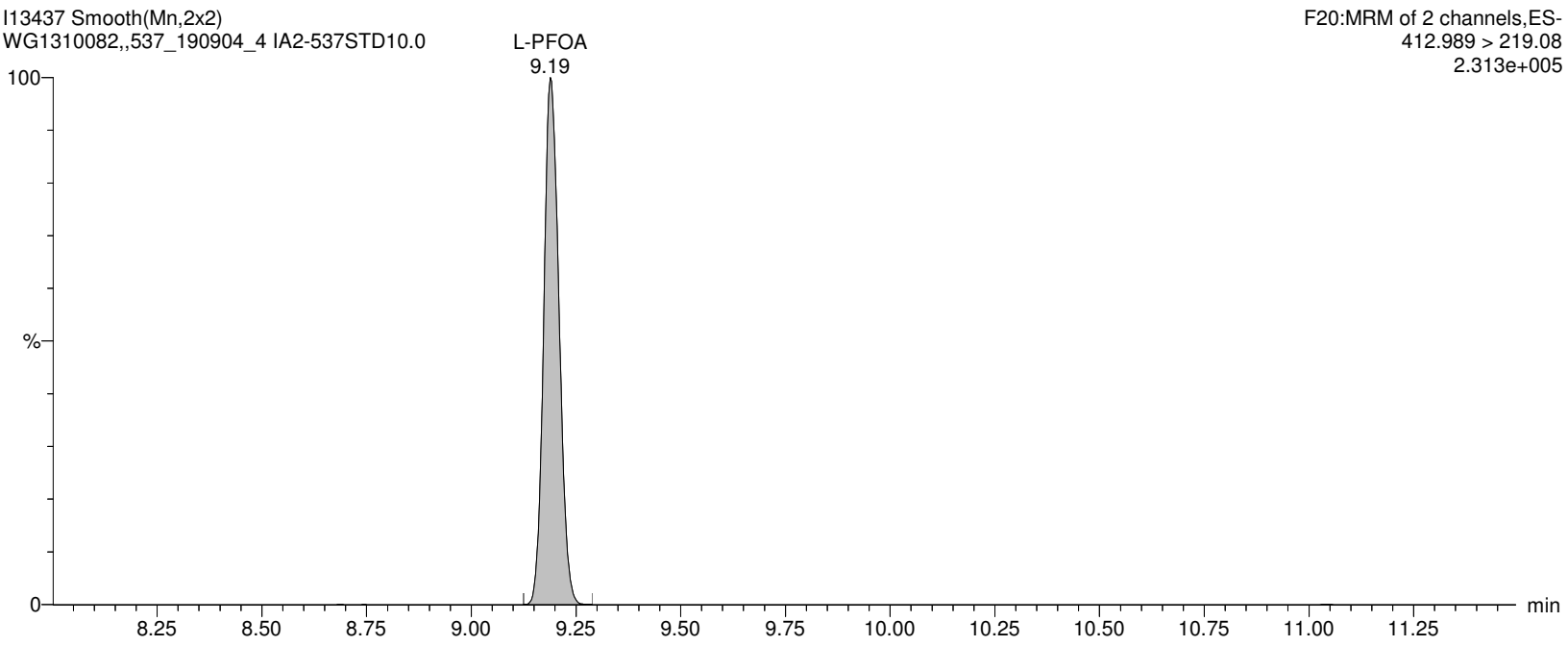

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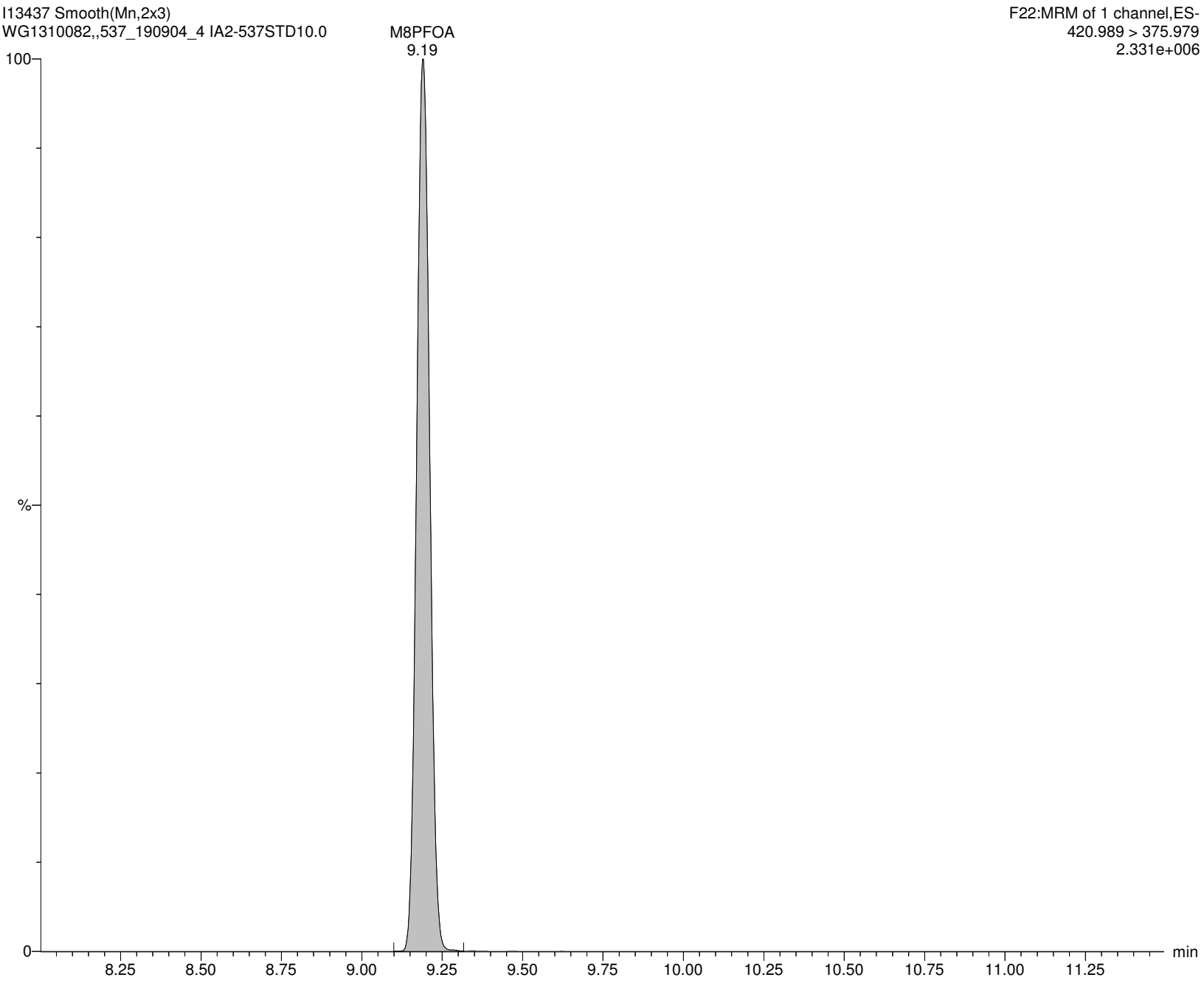

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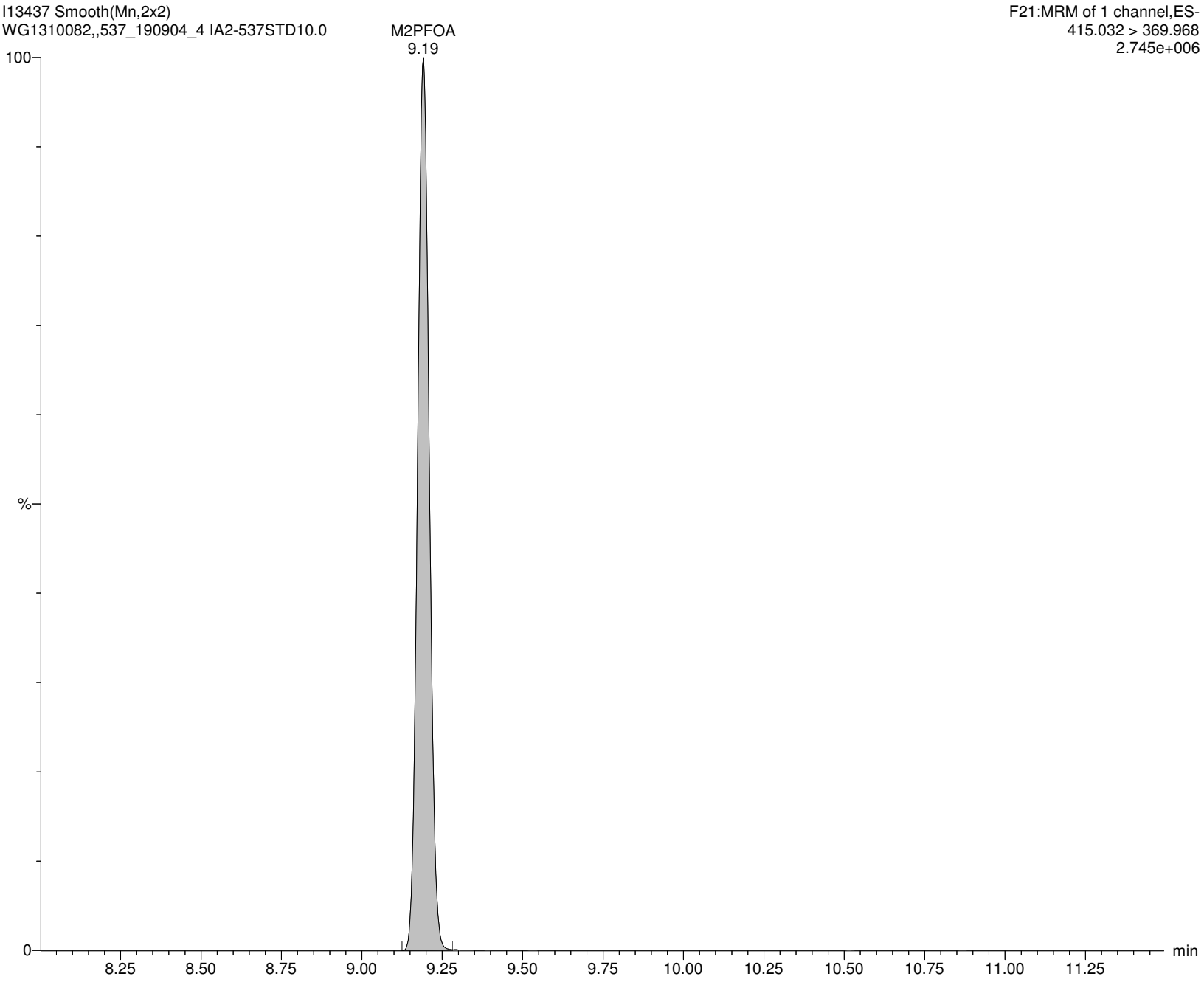

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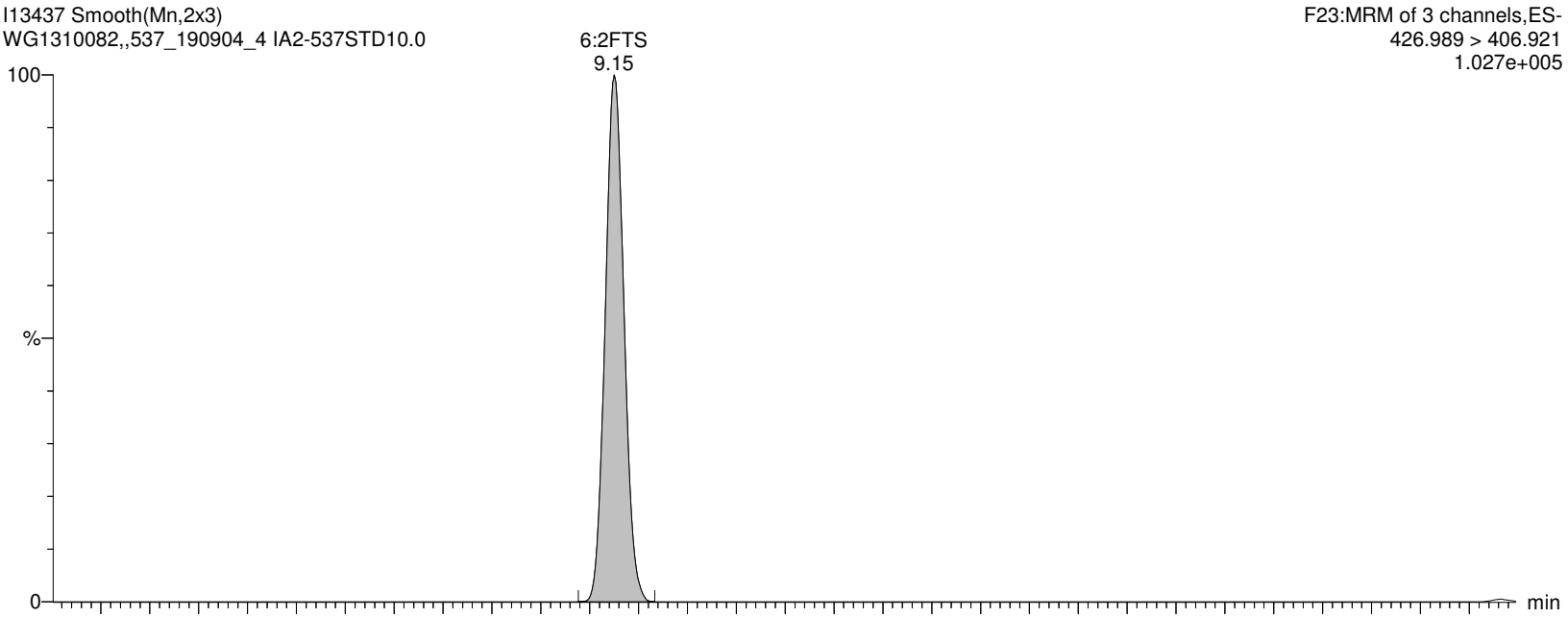

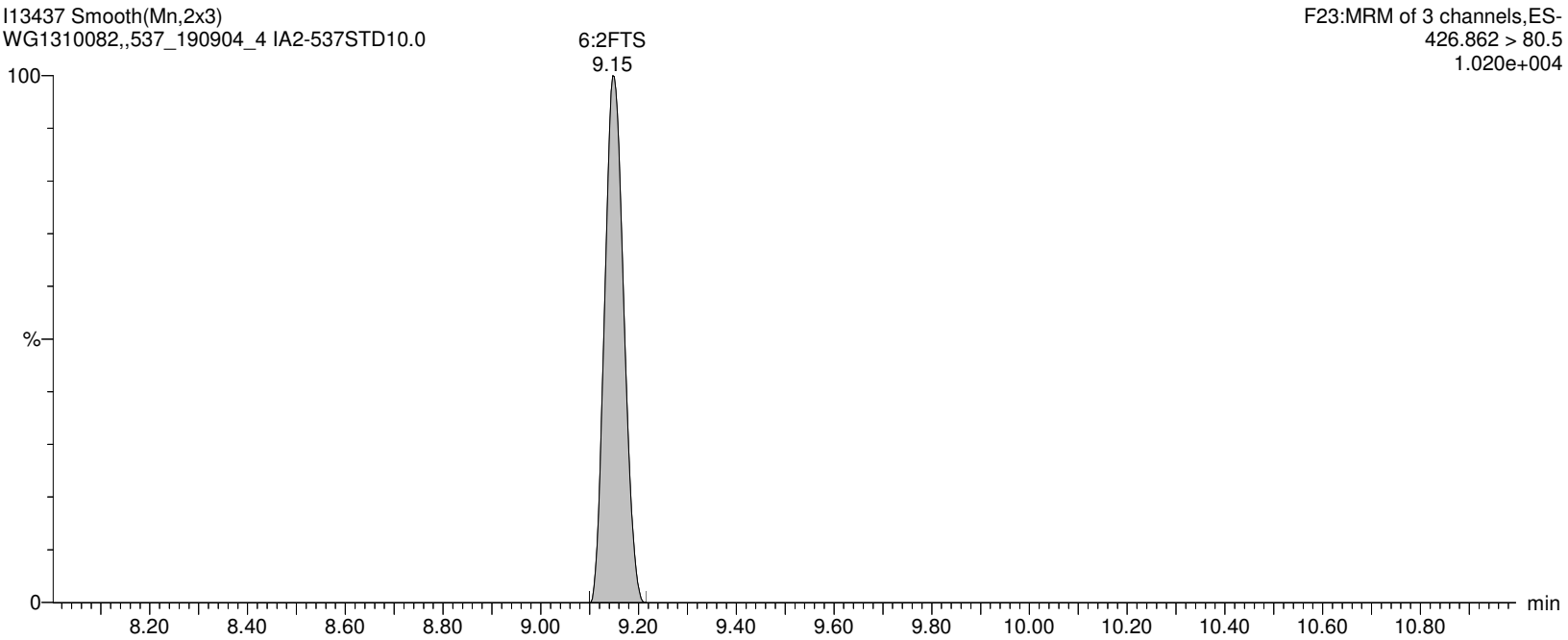

all concentration units in (ng/mL)

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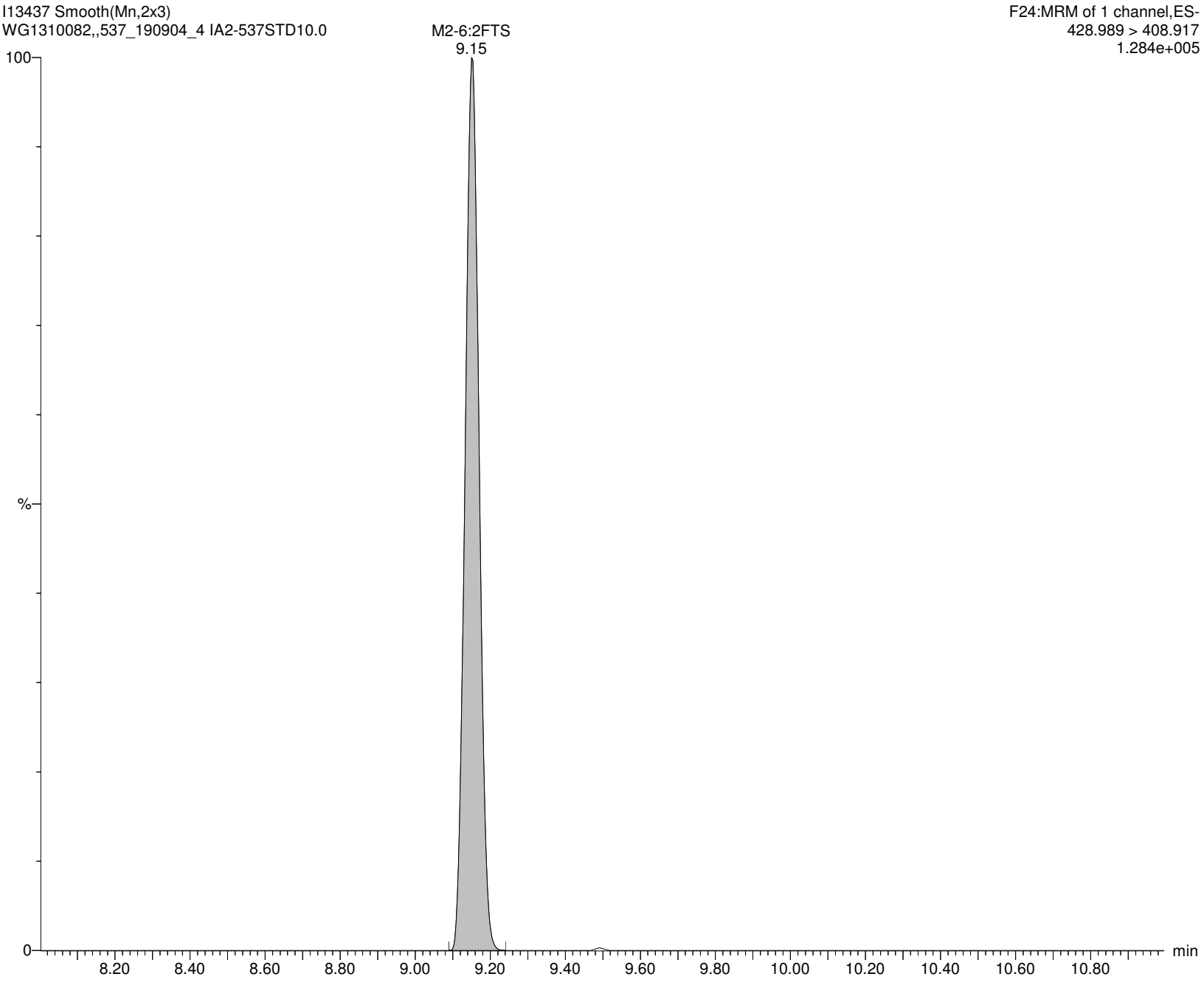

all concentration units in (ng/mL)

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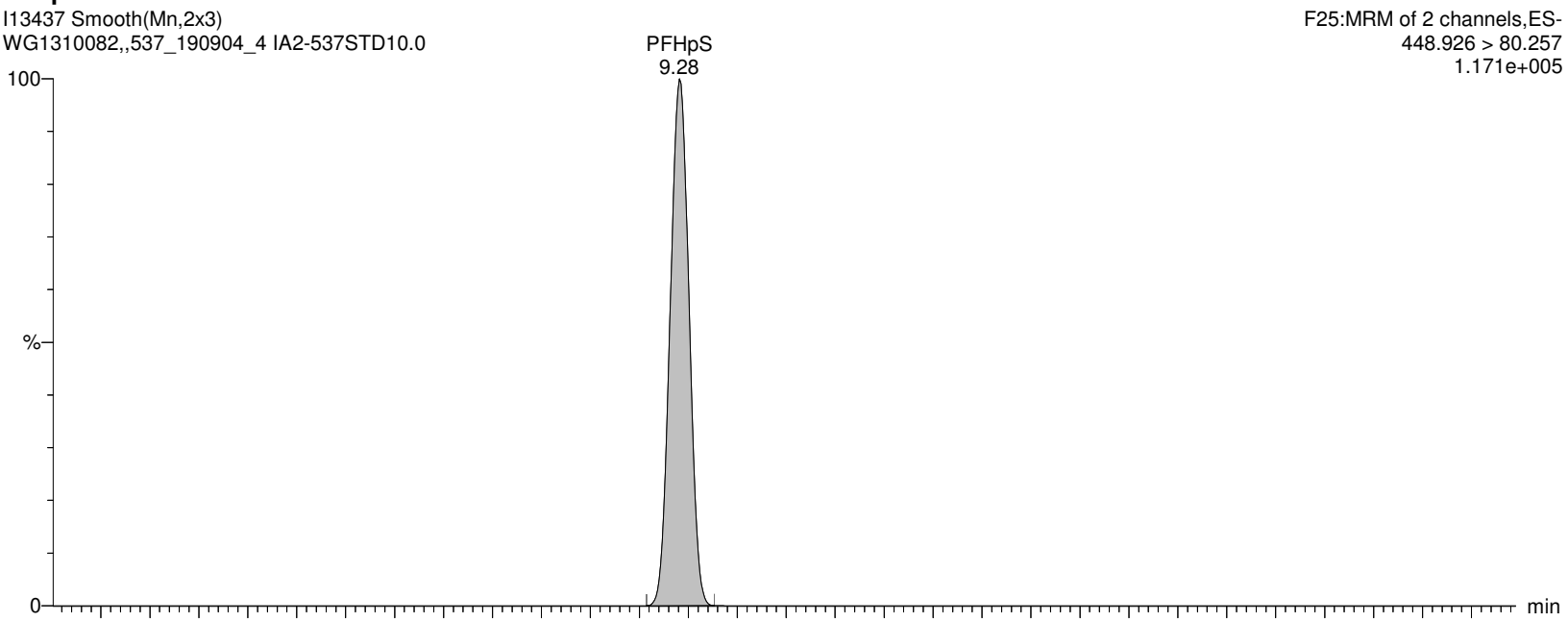

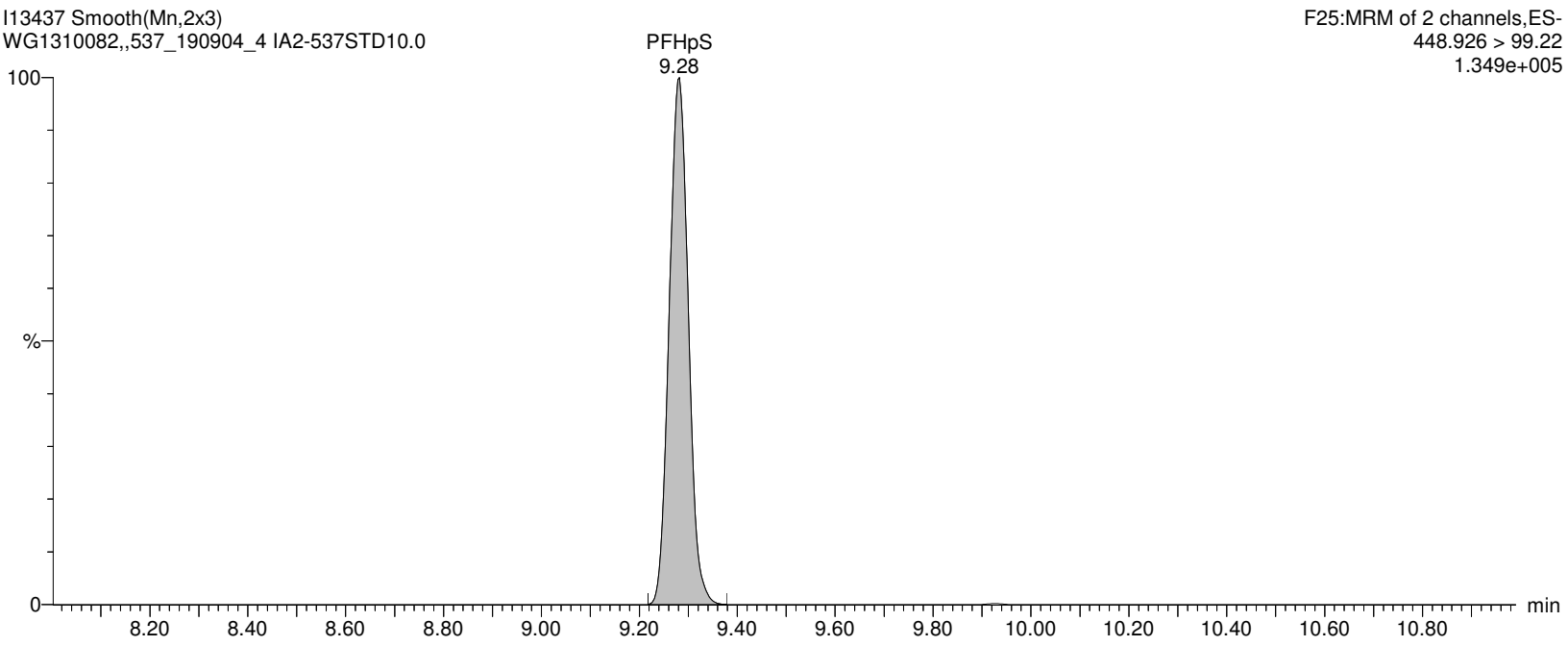

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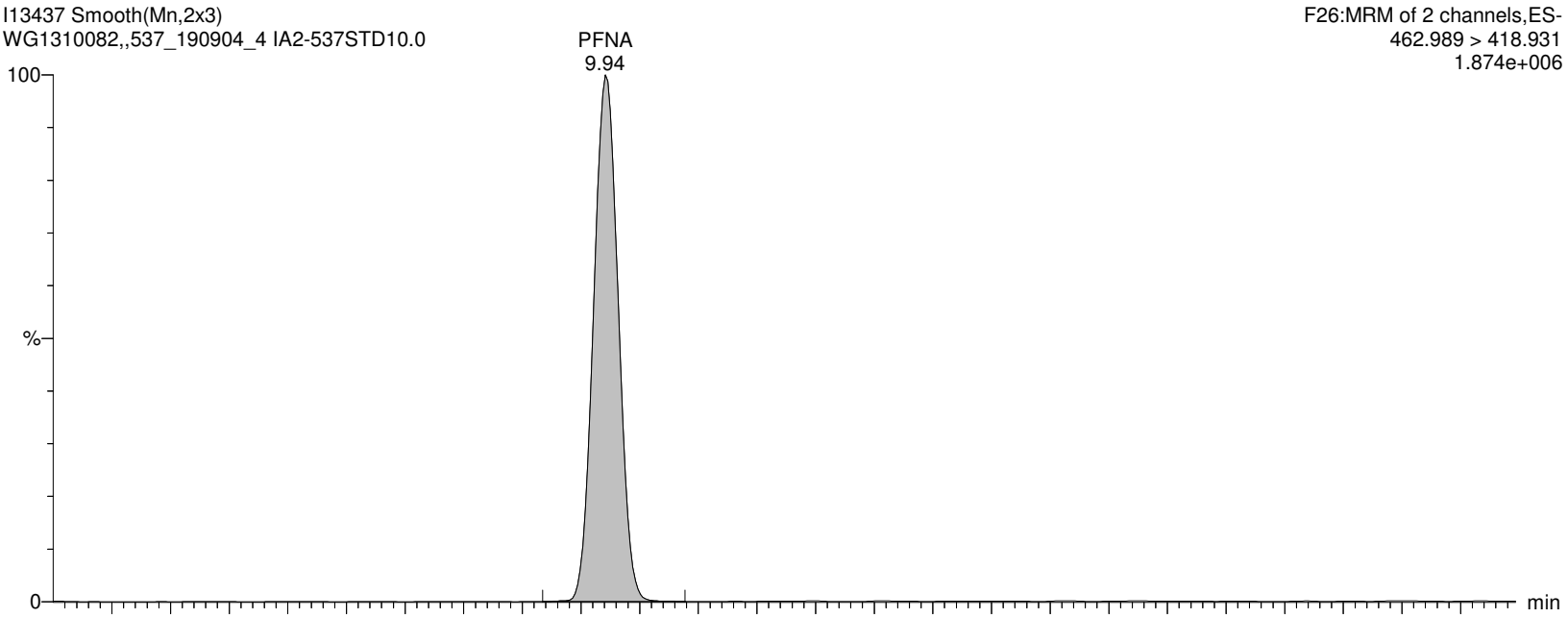

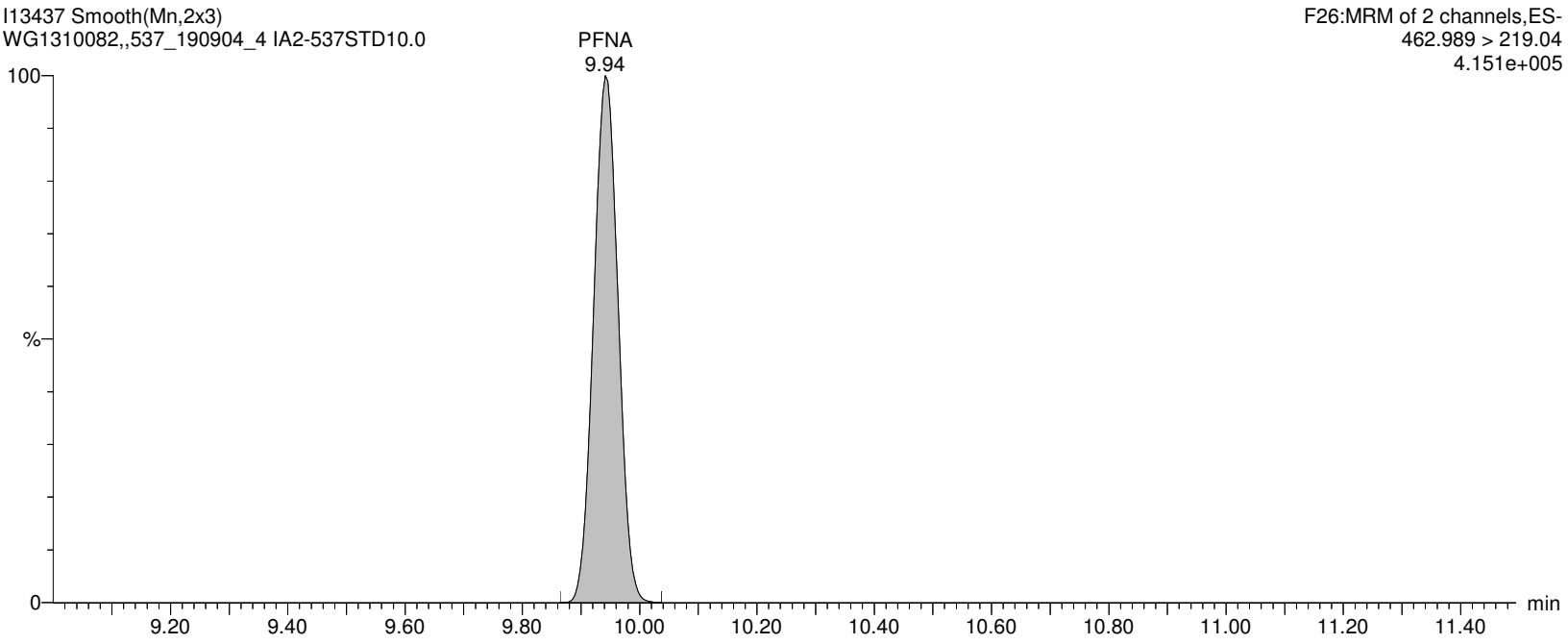

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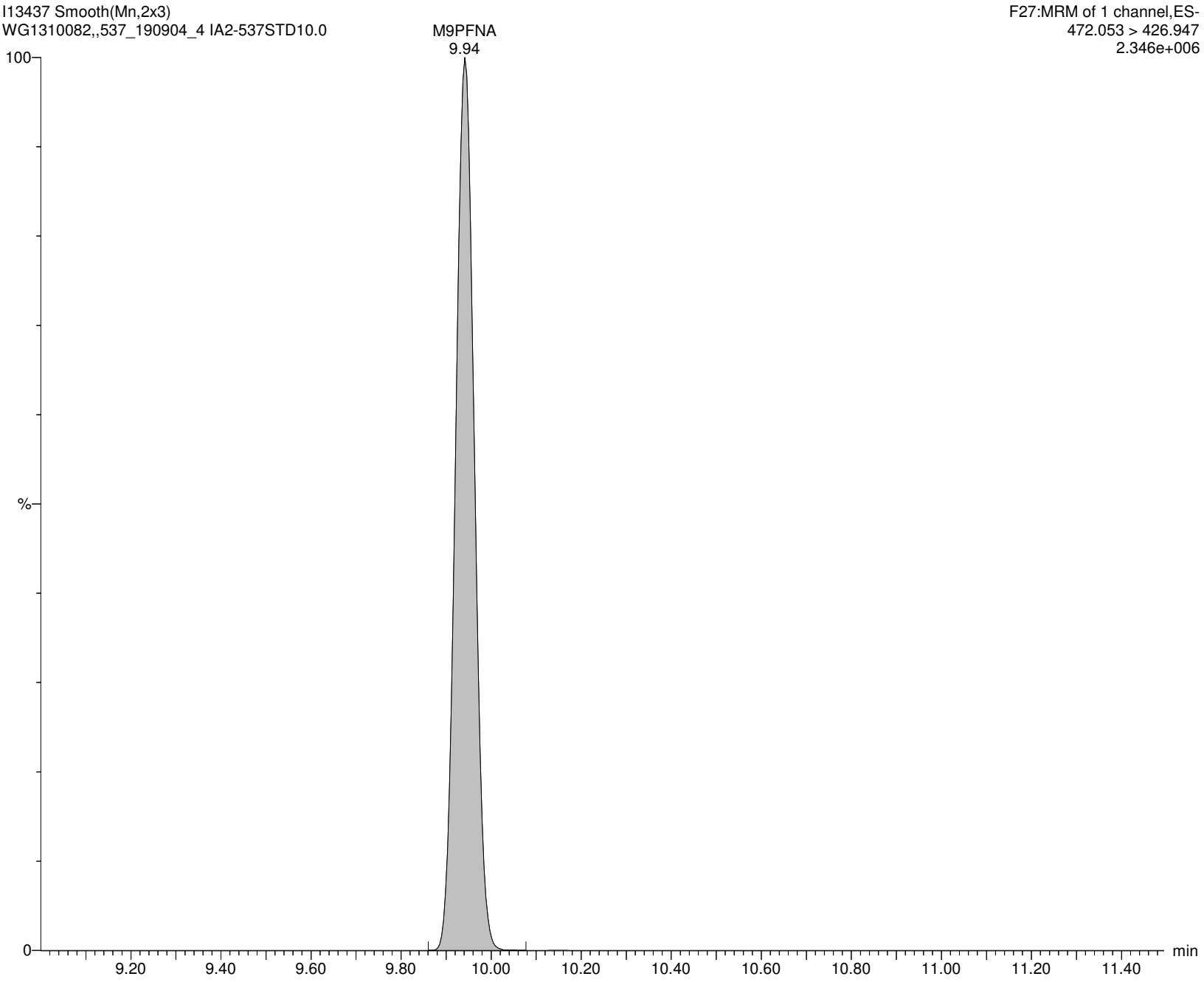

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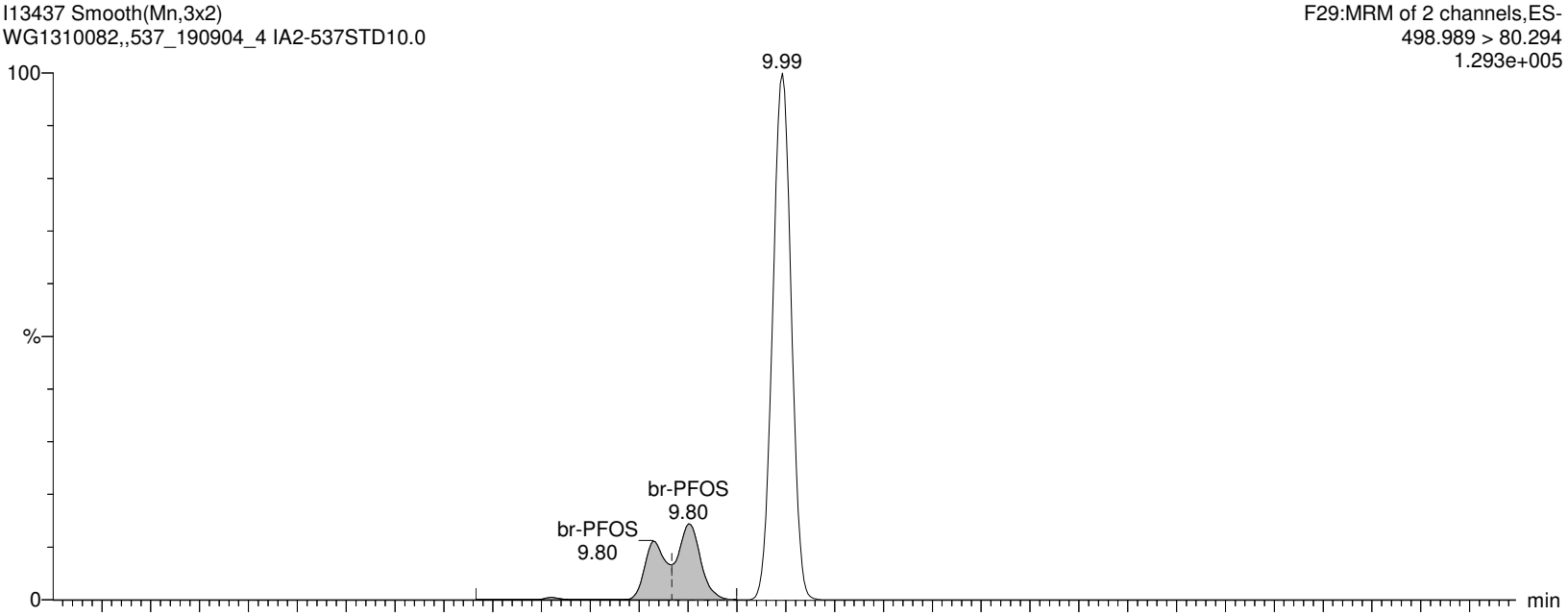

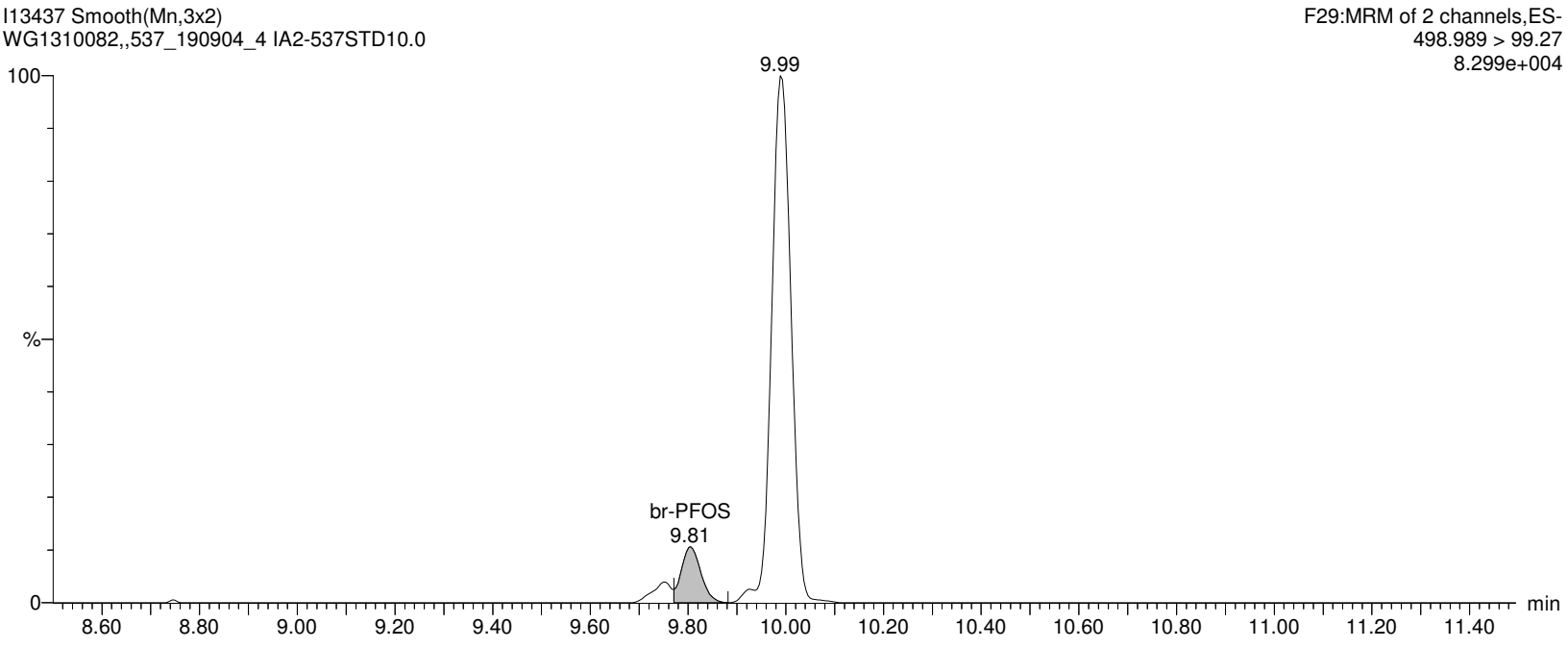

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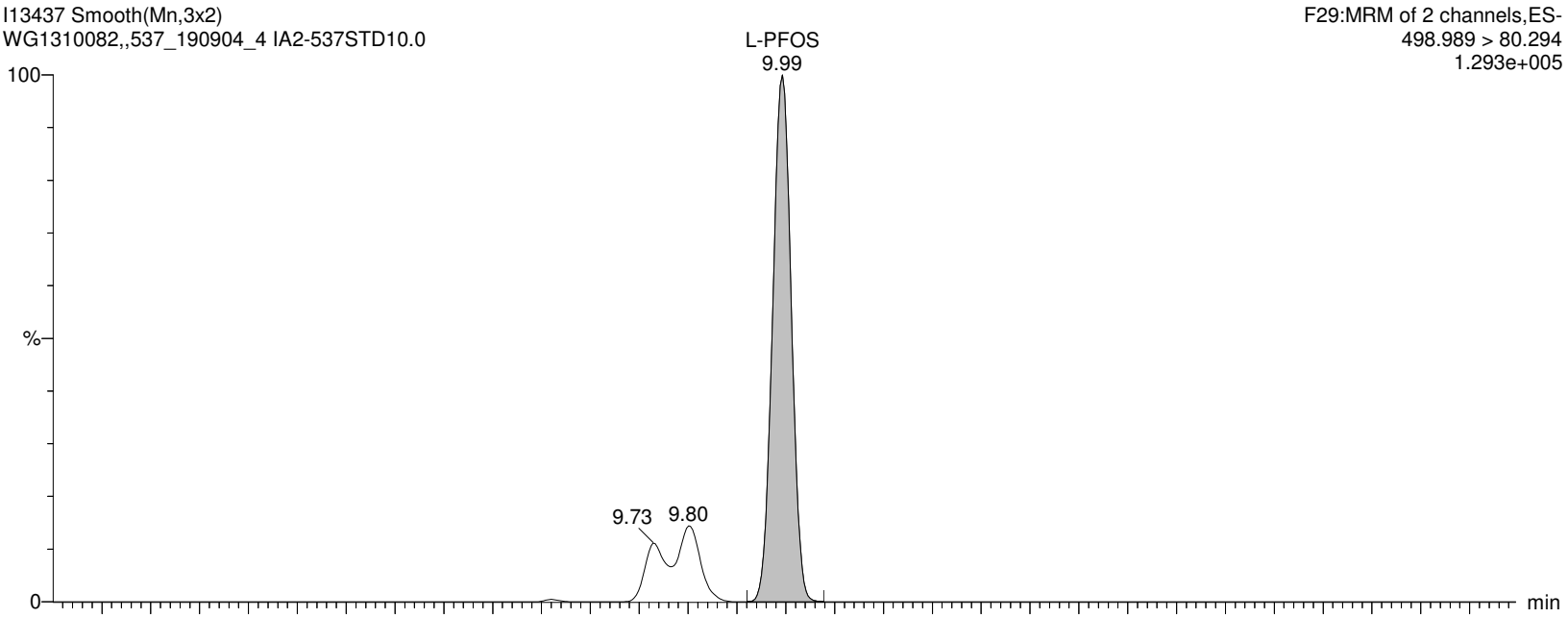

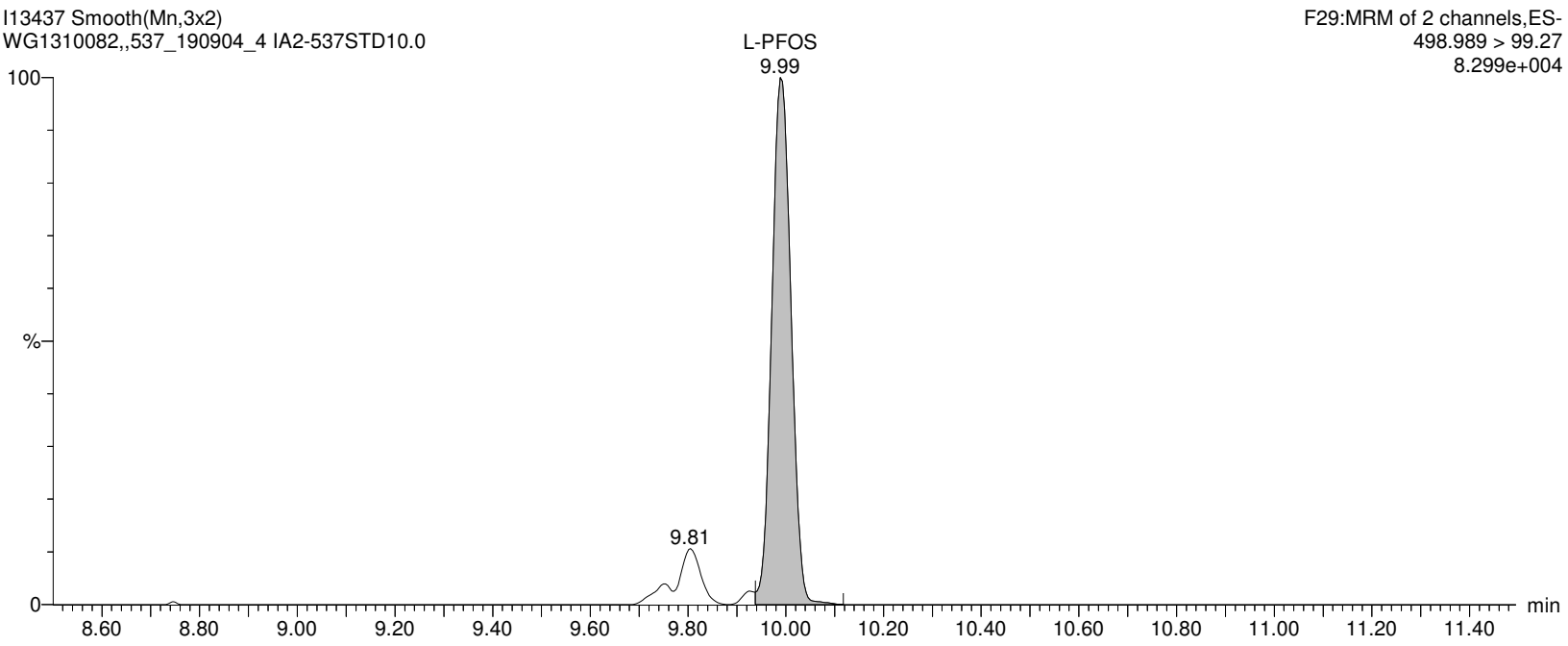

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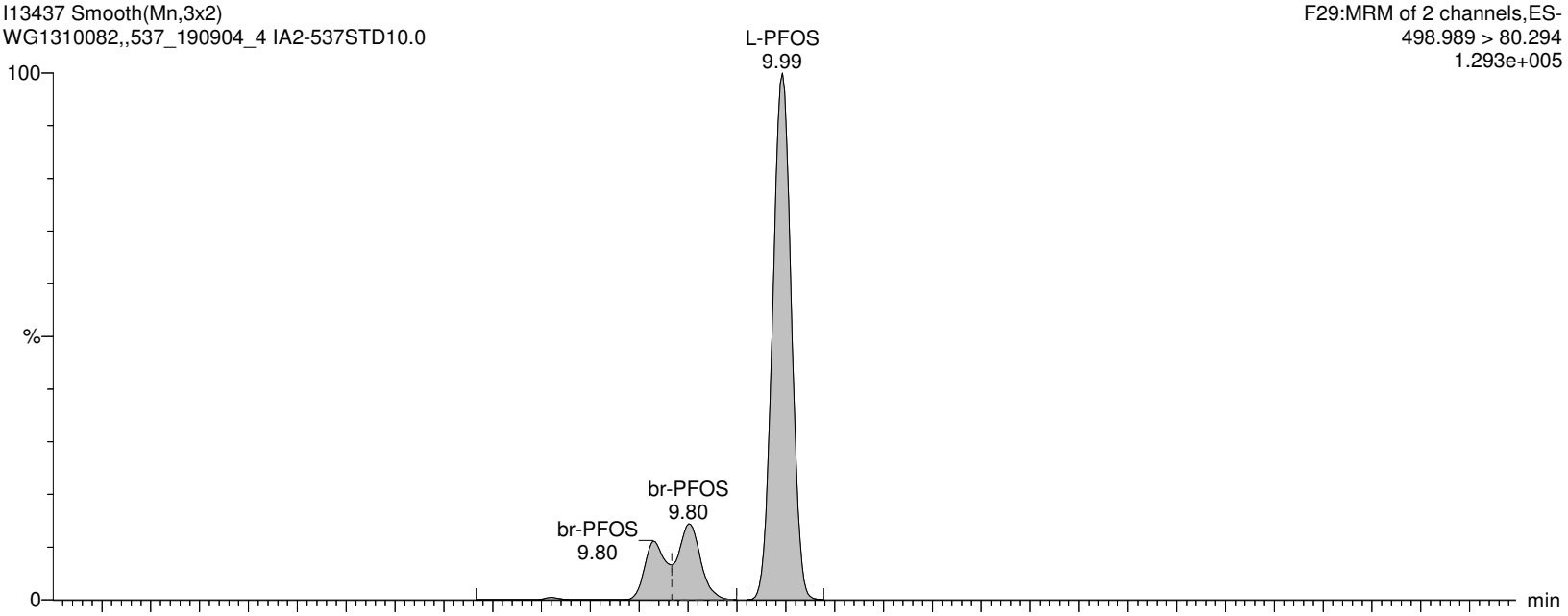

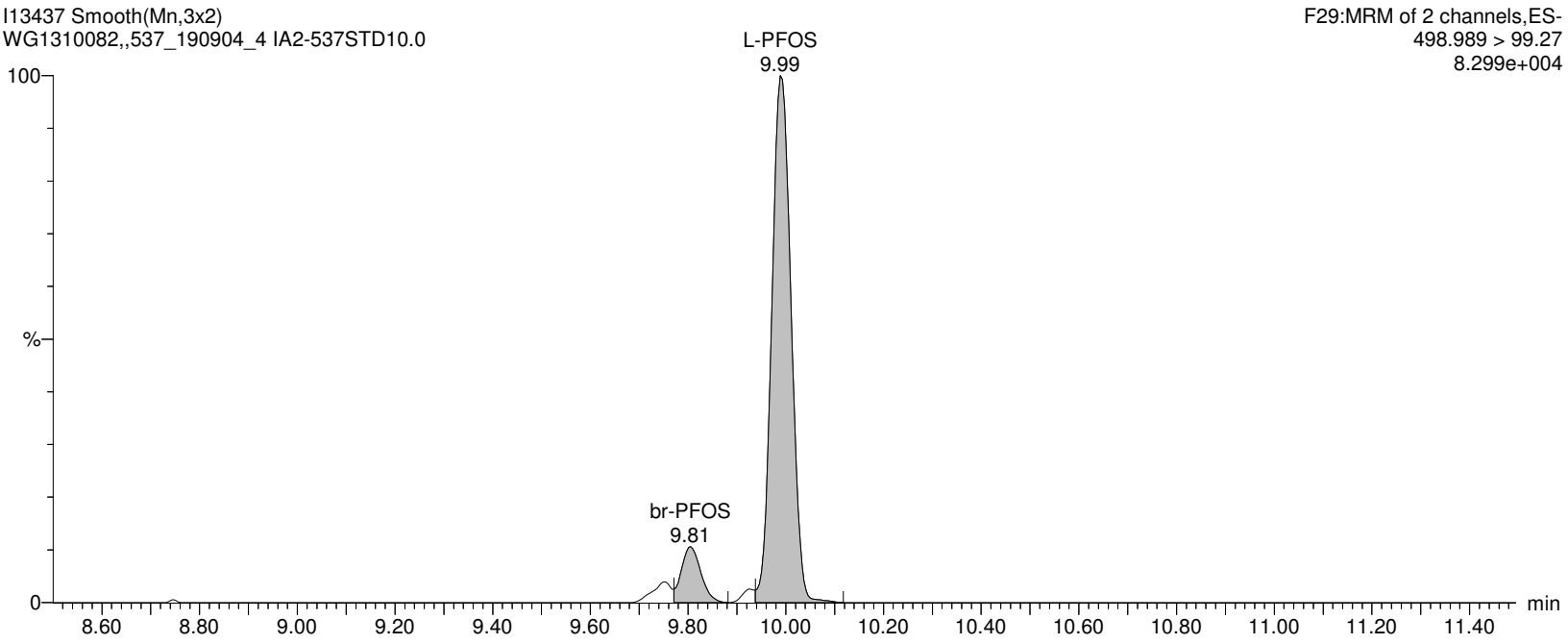

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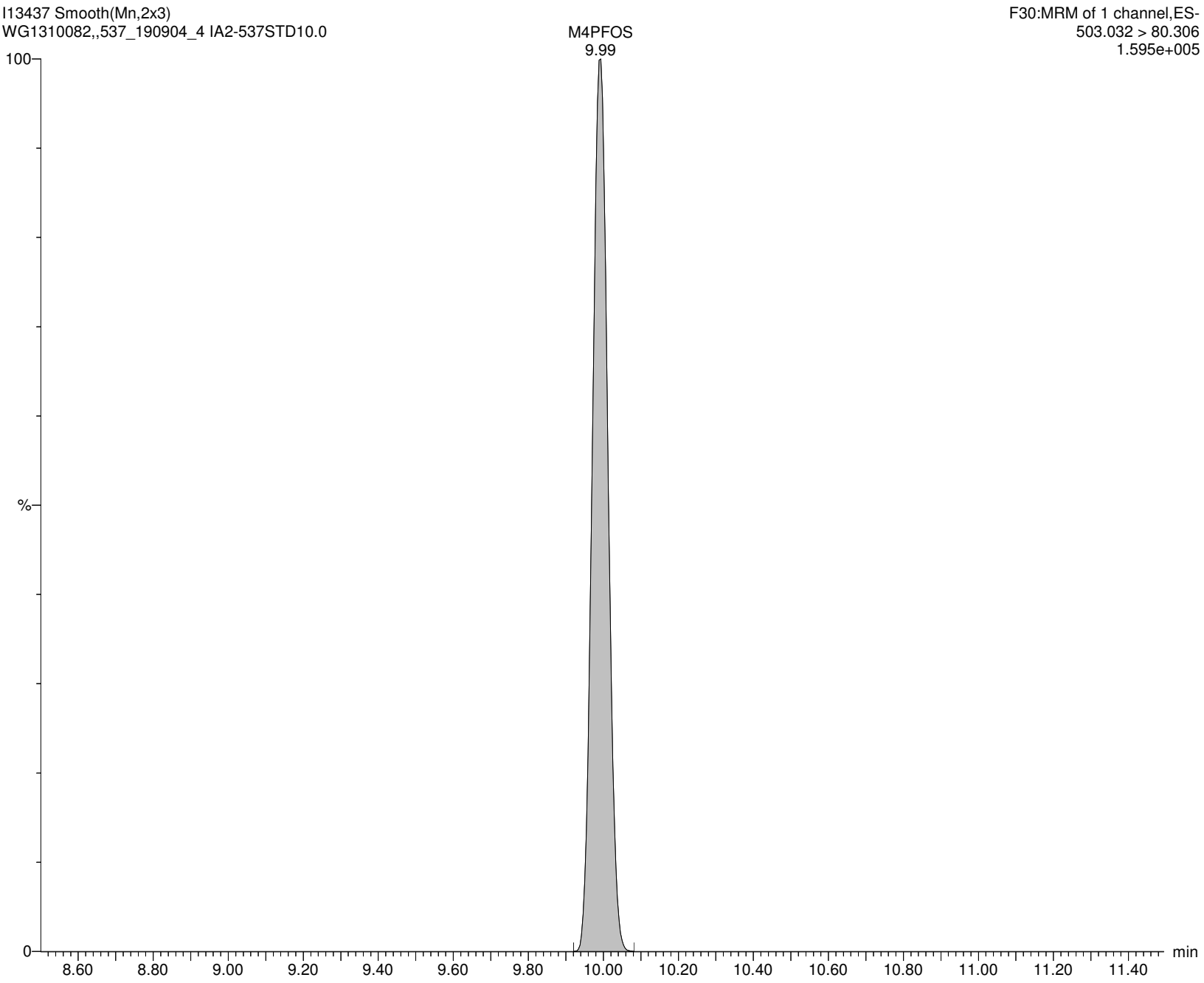

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:55 Eastern Standard Time

Name: I13437
ID: IA2-537STD10.0
Date: 18-Nov-2019
Time: 11:26:51
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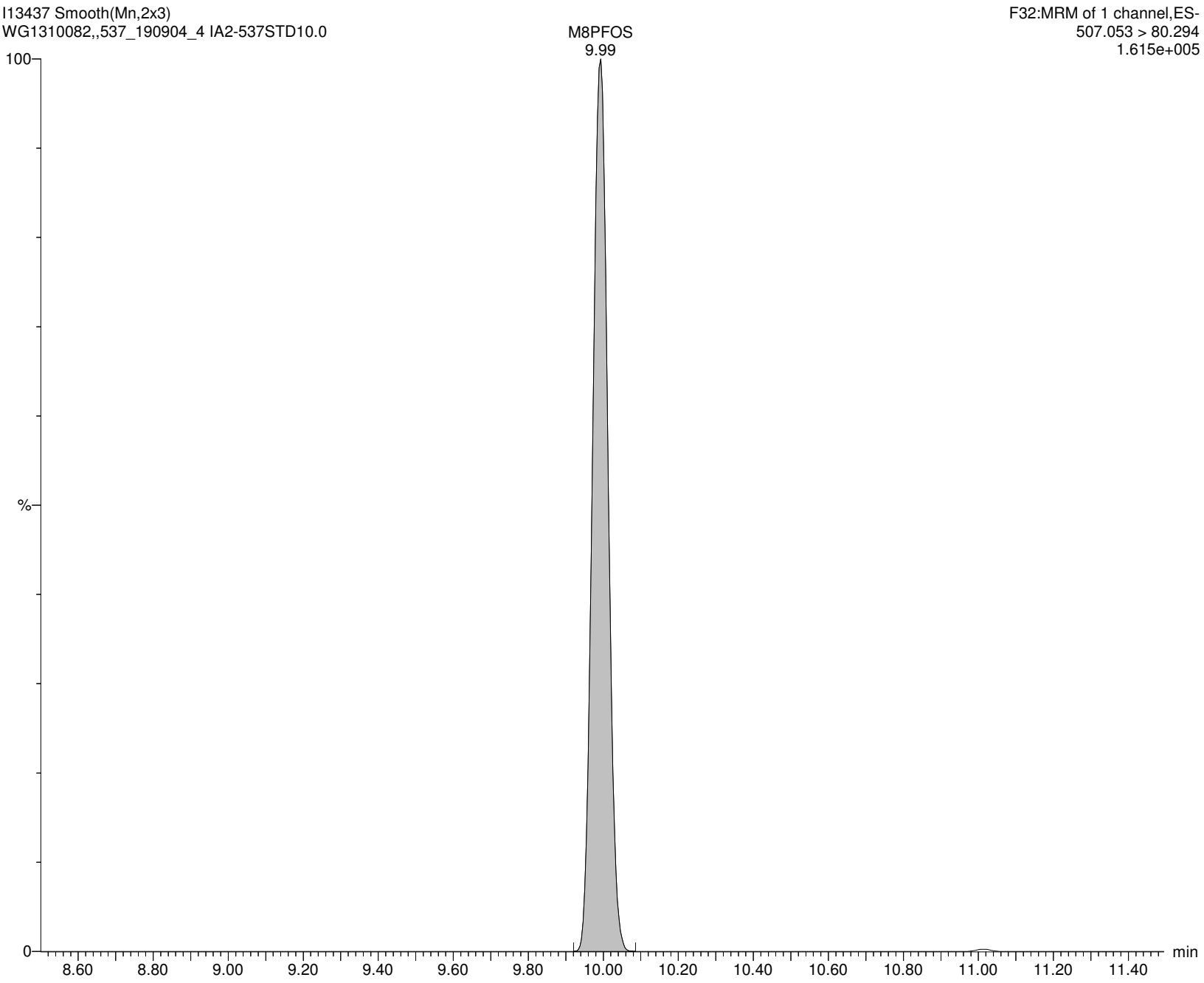

all concentration units in (ng/mL)

Alpha Analytical Inc.
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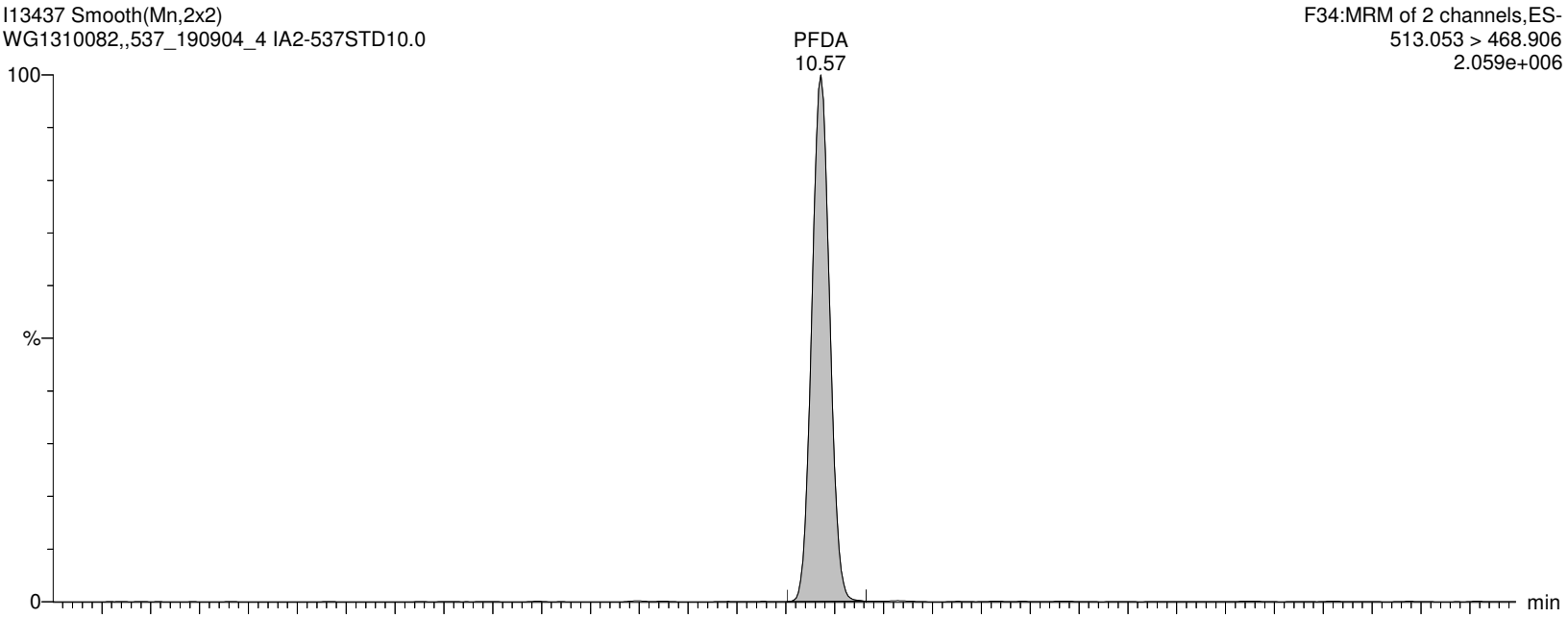

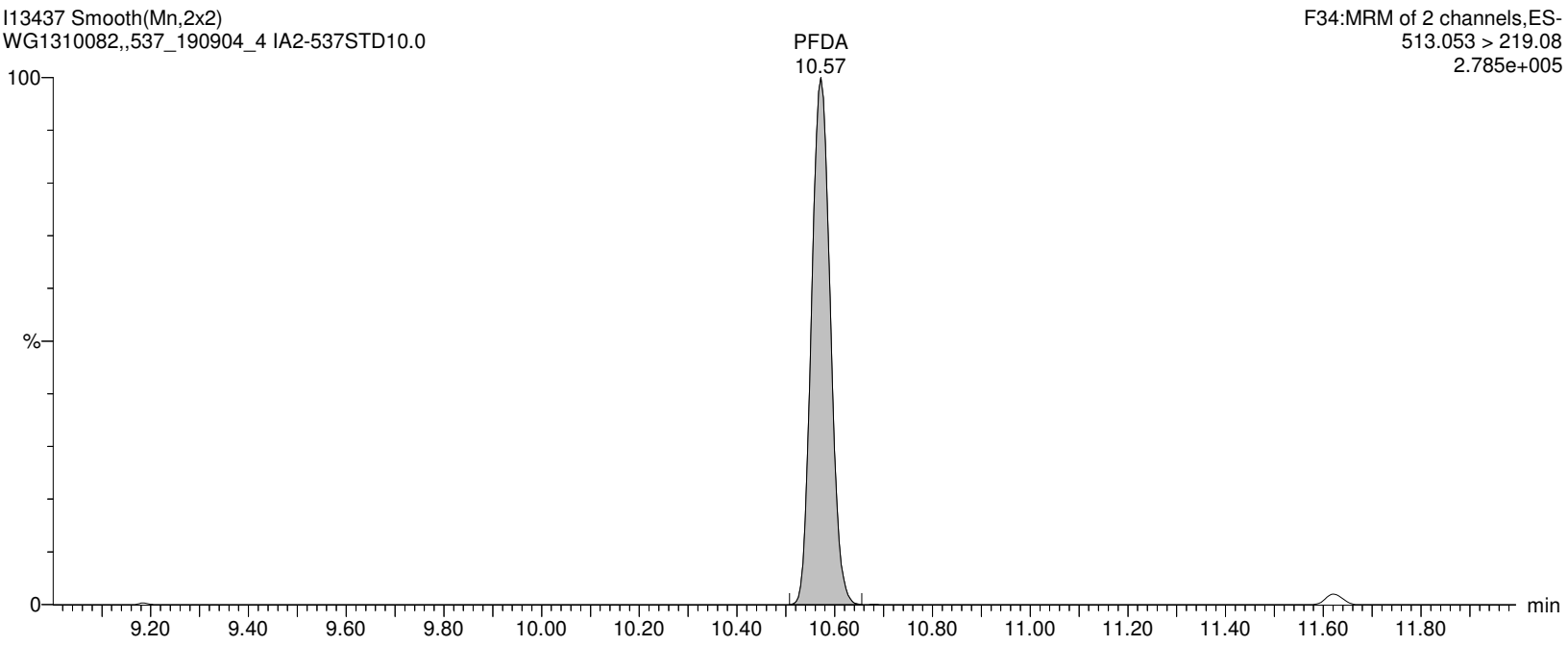

all concentration units in (ng/mL)

Alpha Analytical Inc.
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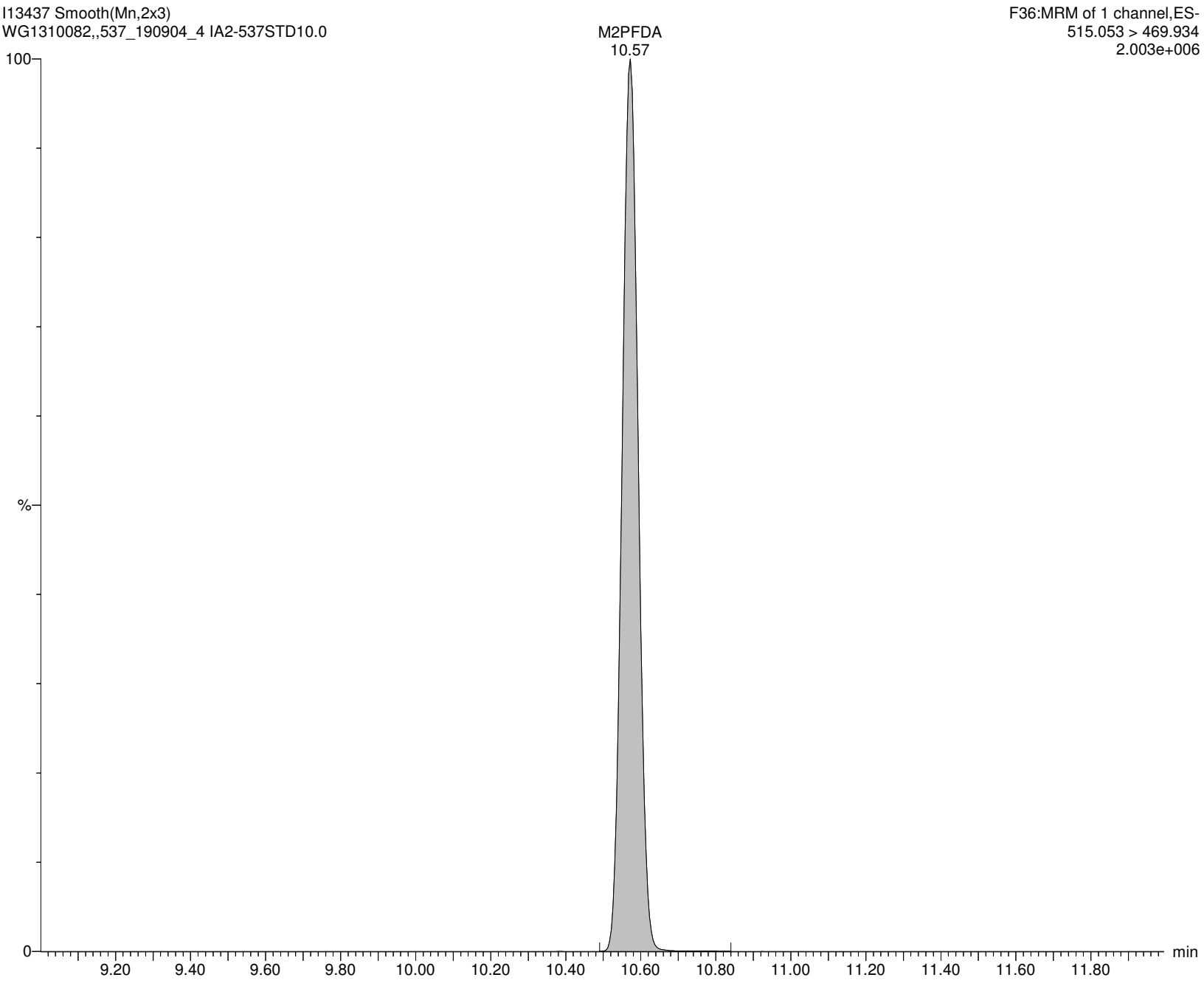

all concentration units in (ng/mL)

Alpha Analytical Inc.
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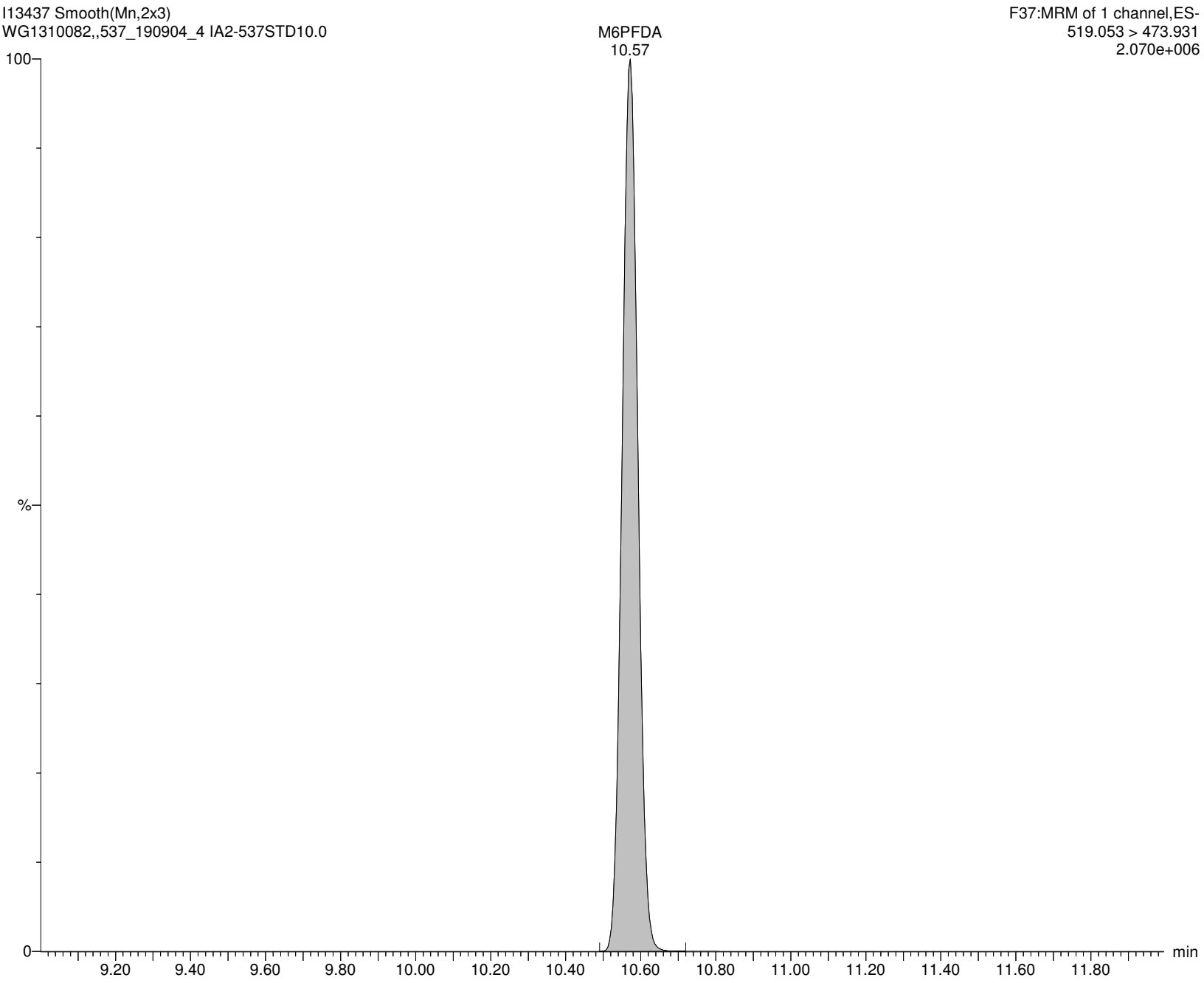

all concentration units in (ng/mL)

Alpha Analytical Inc.
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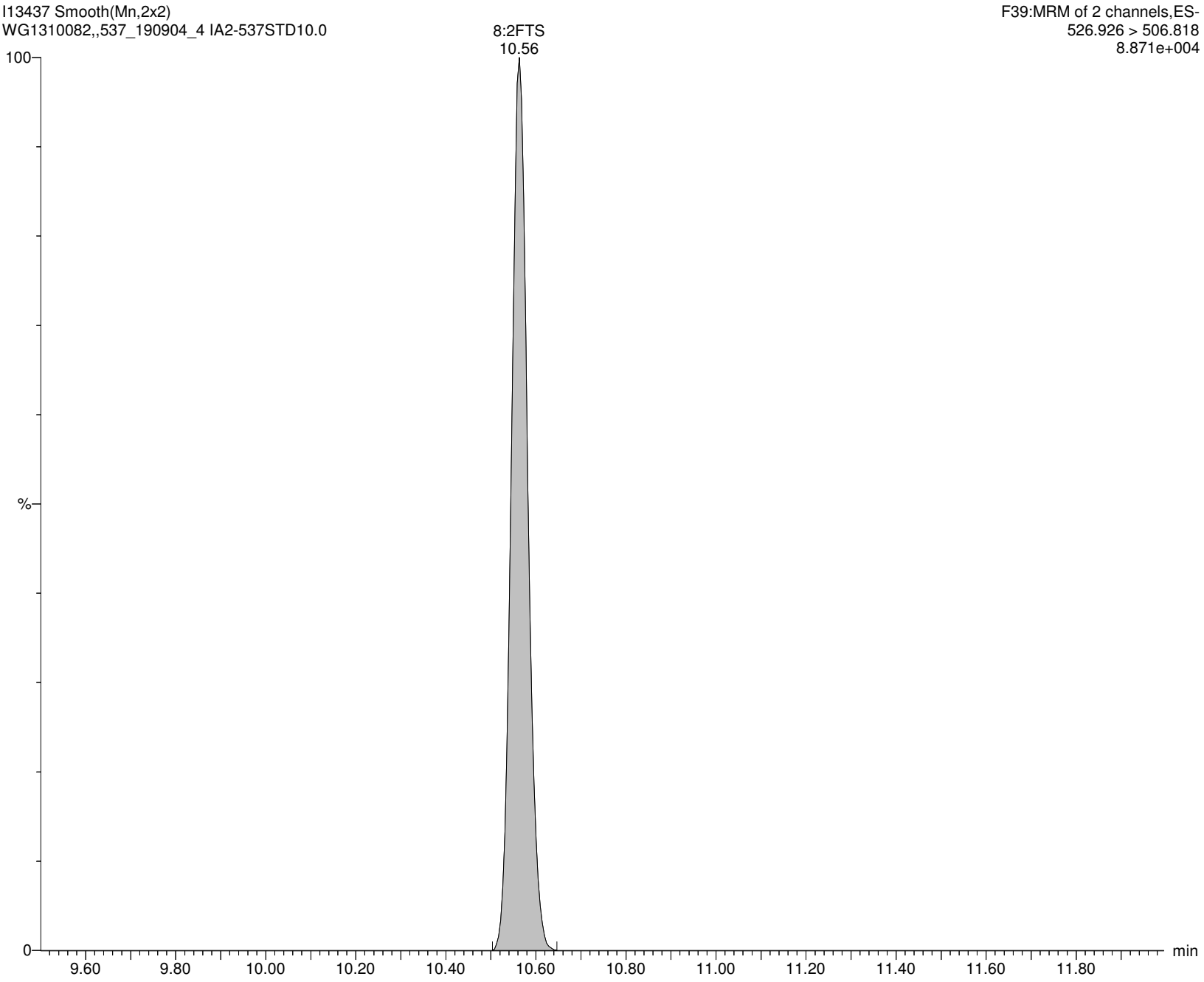
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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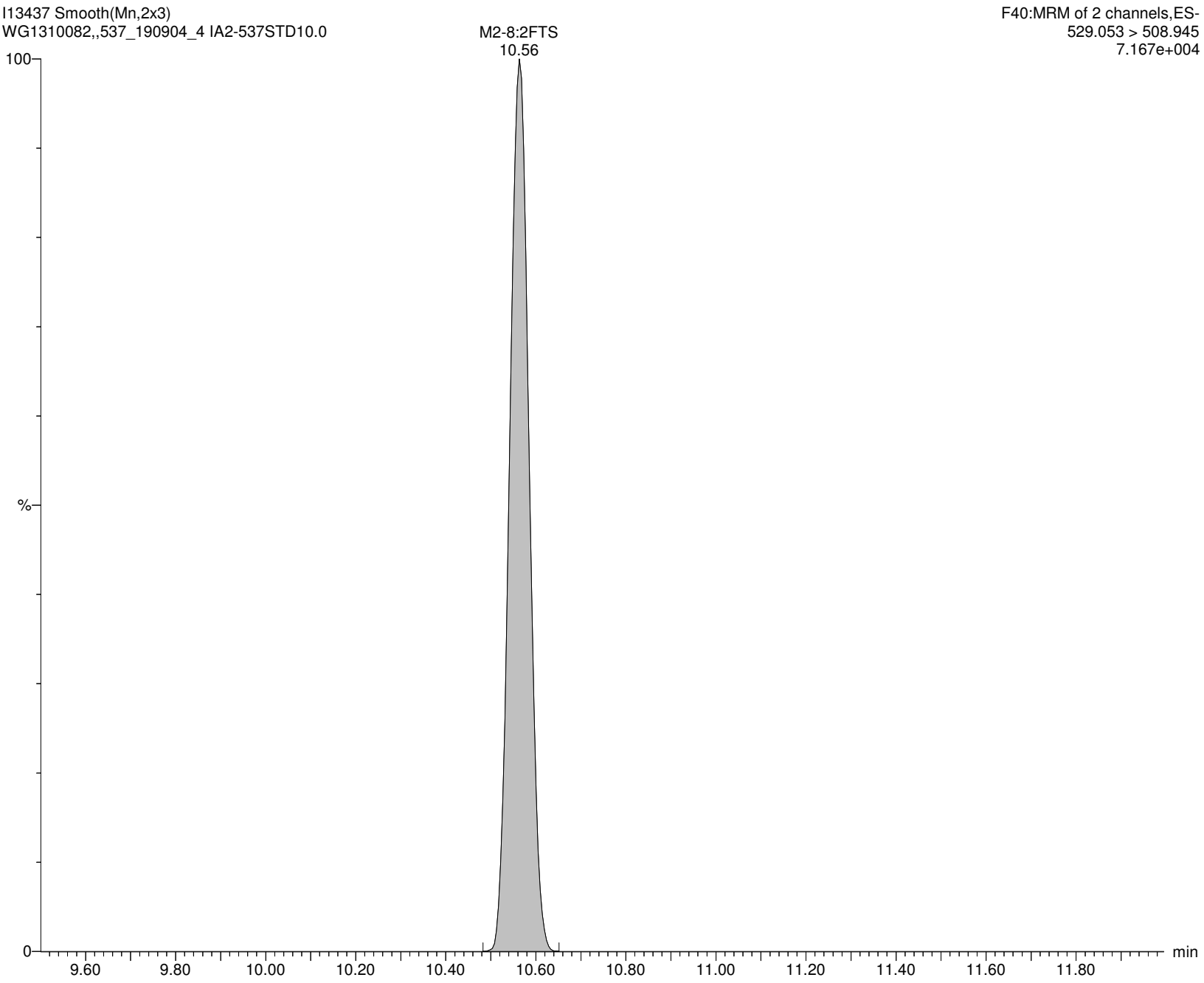

all concentration units in (ng/mL)

Alpha Analytical Inc.
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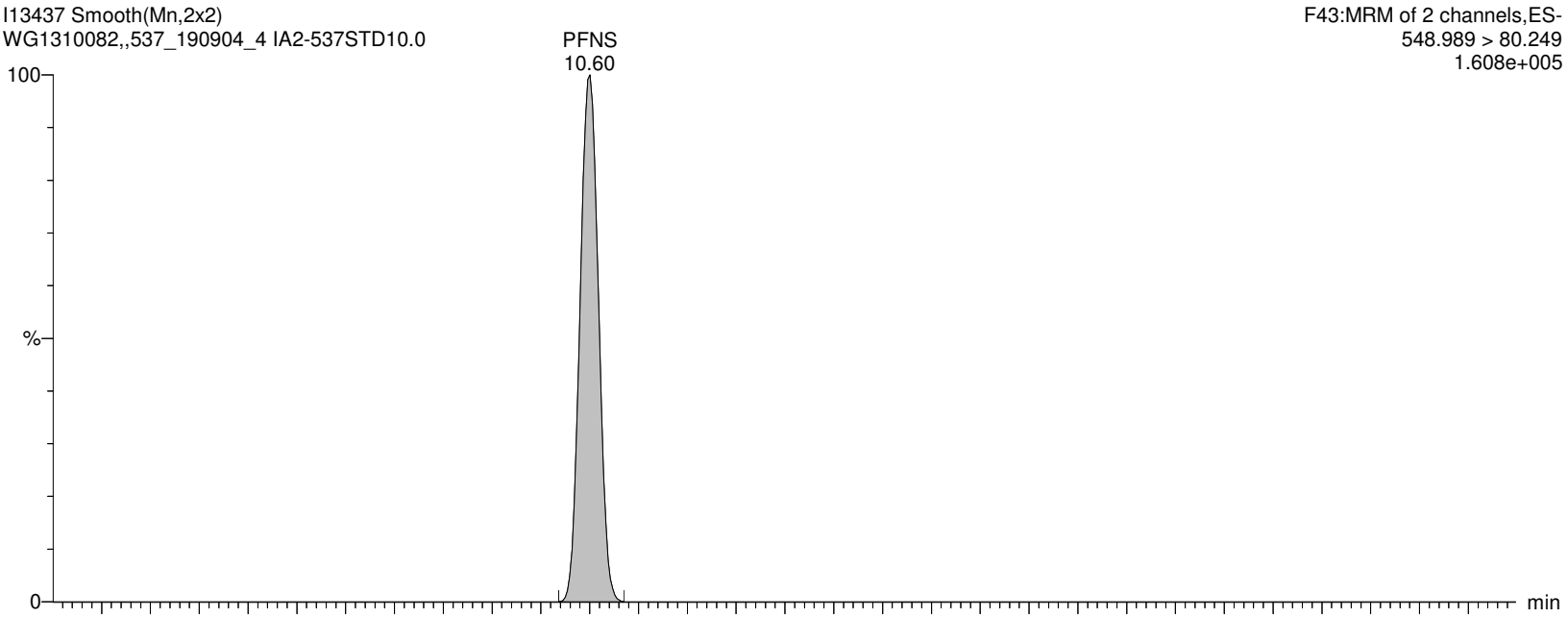

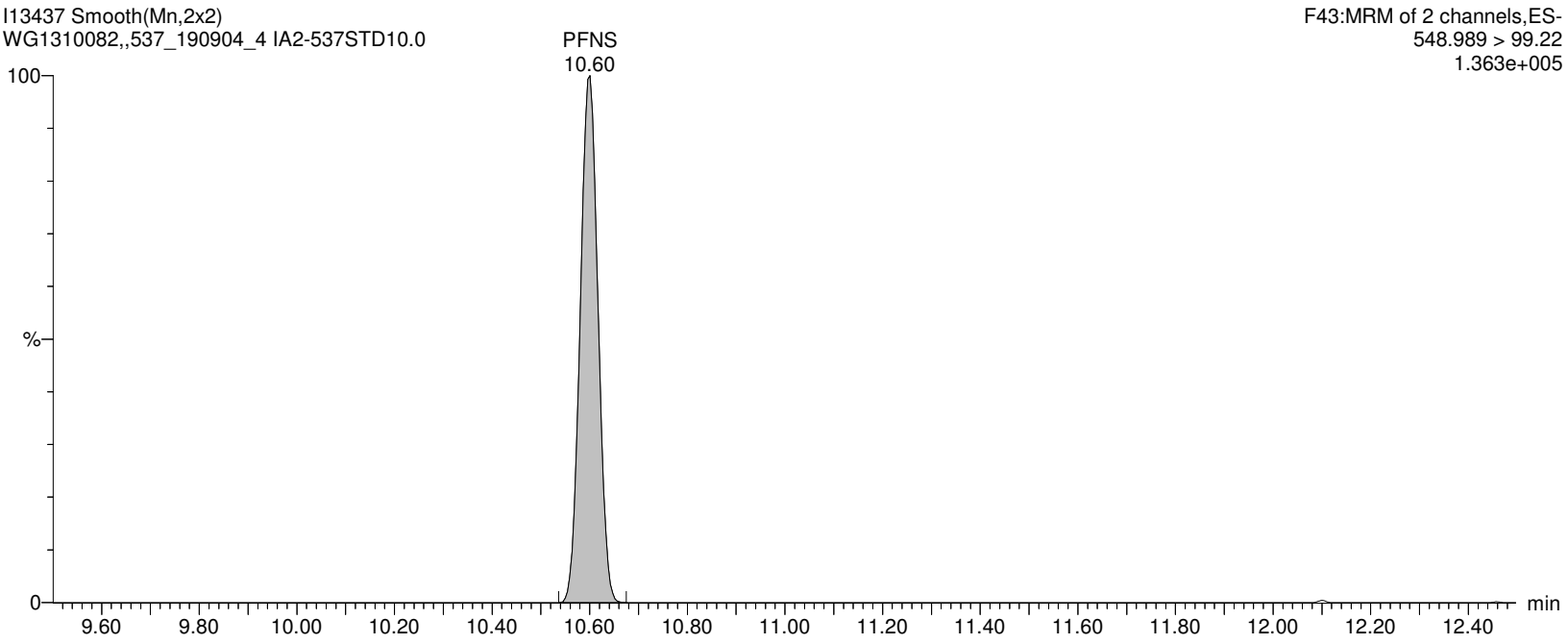

all concentration units in (ng/mL)

Alpha Analytical Inc.
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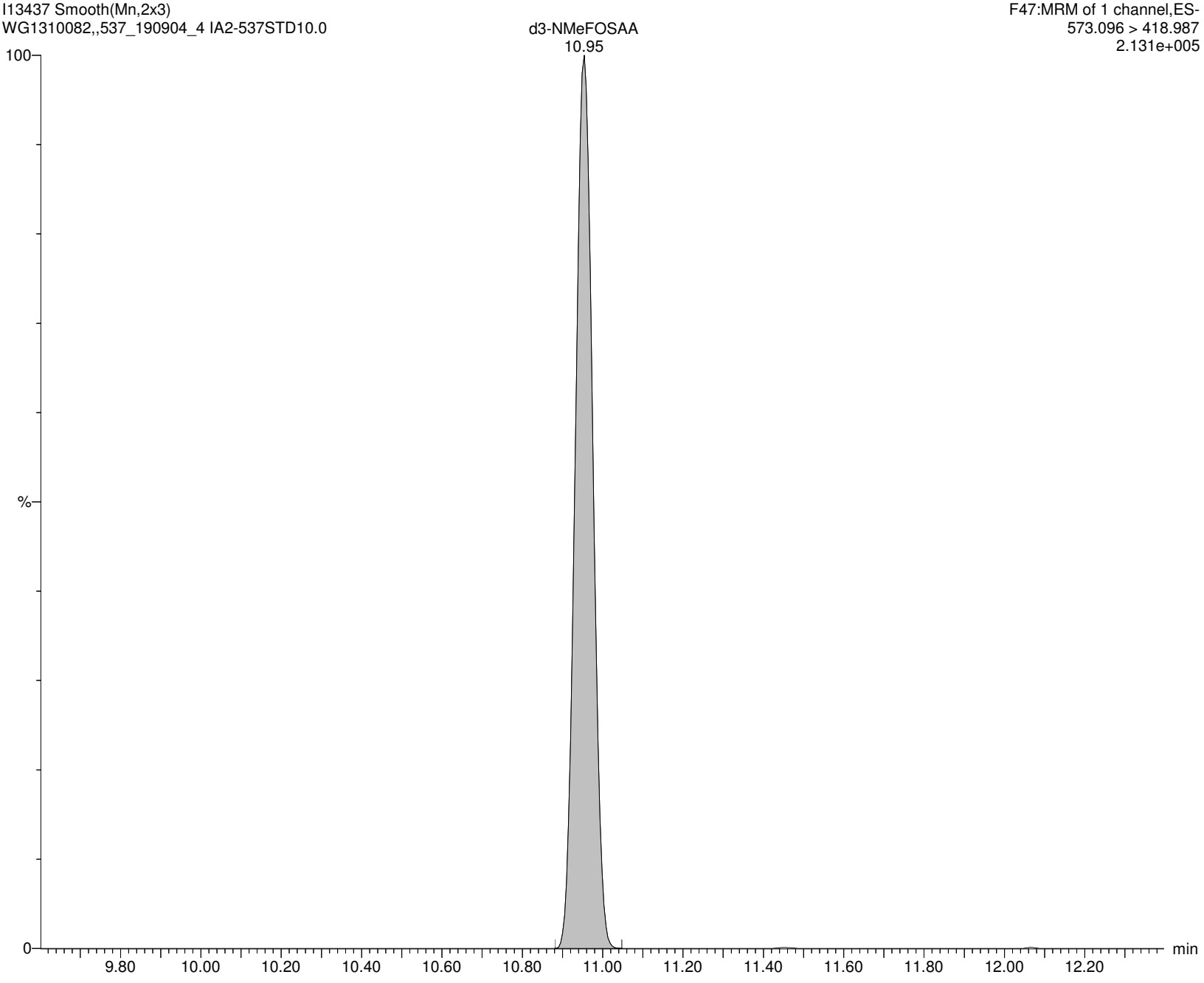

all concentration units in (ng/mL)

Alpha Analytical Inc.
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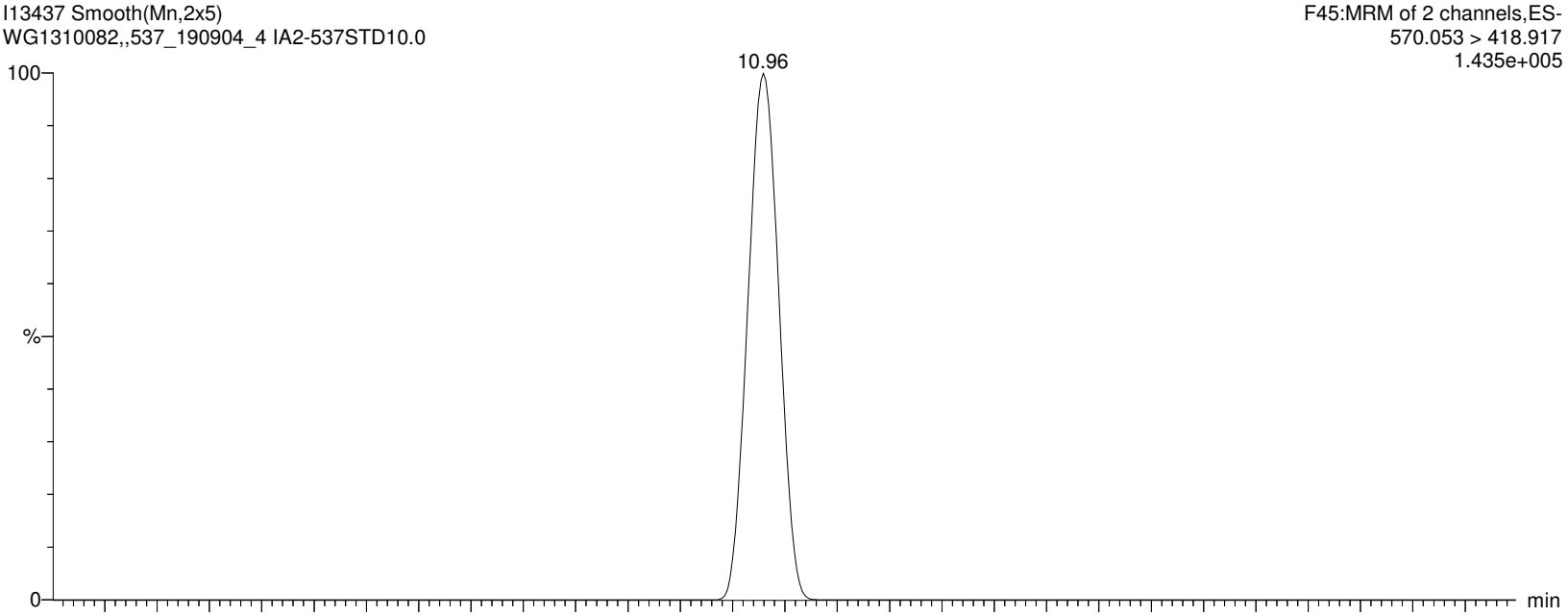

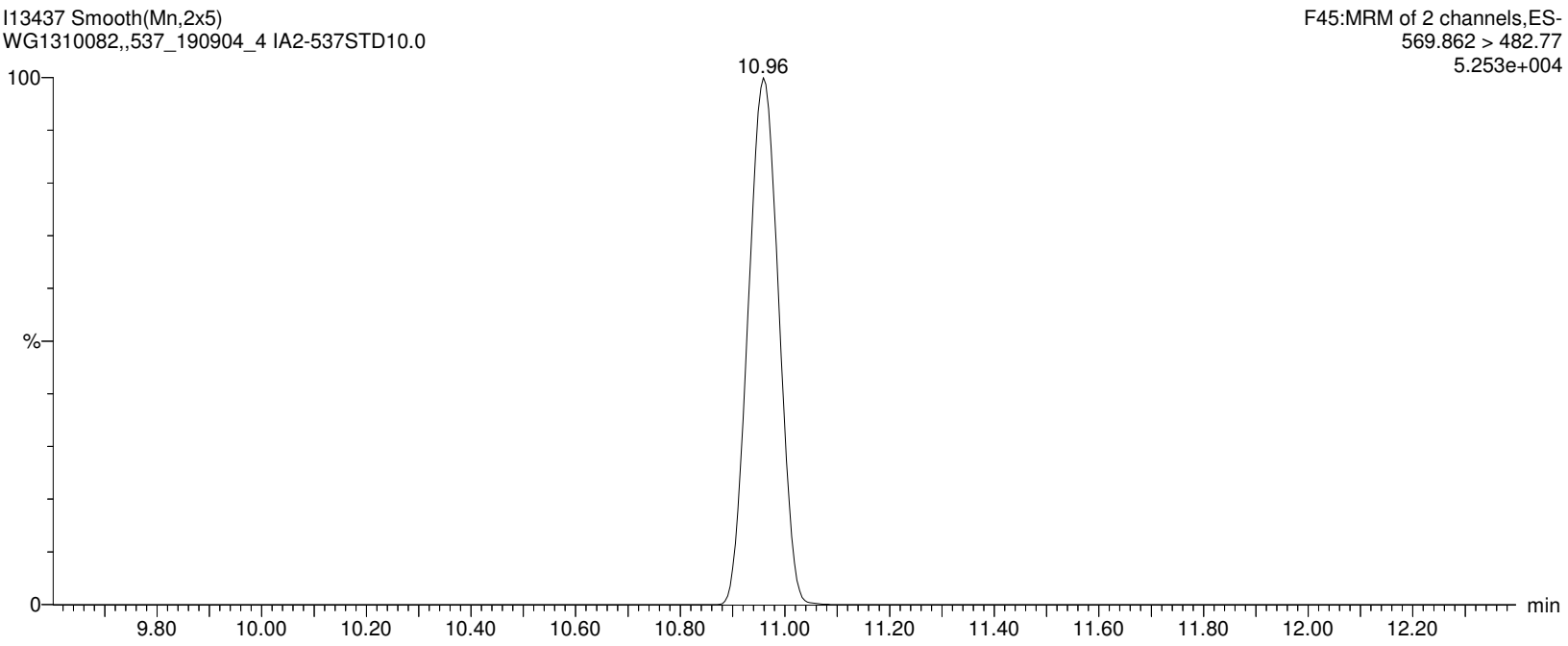

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 18-Nov-2019
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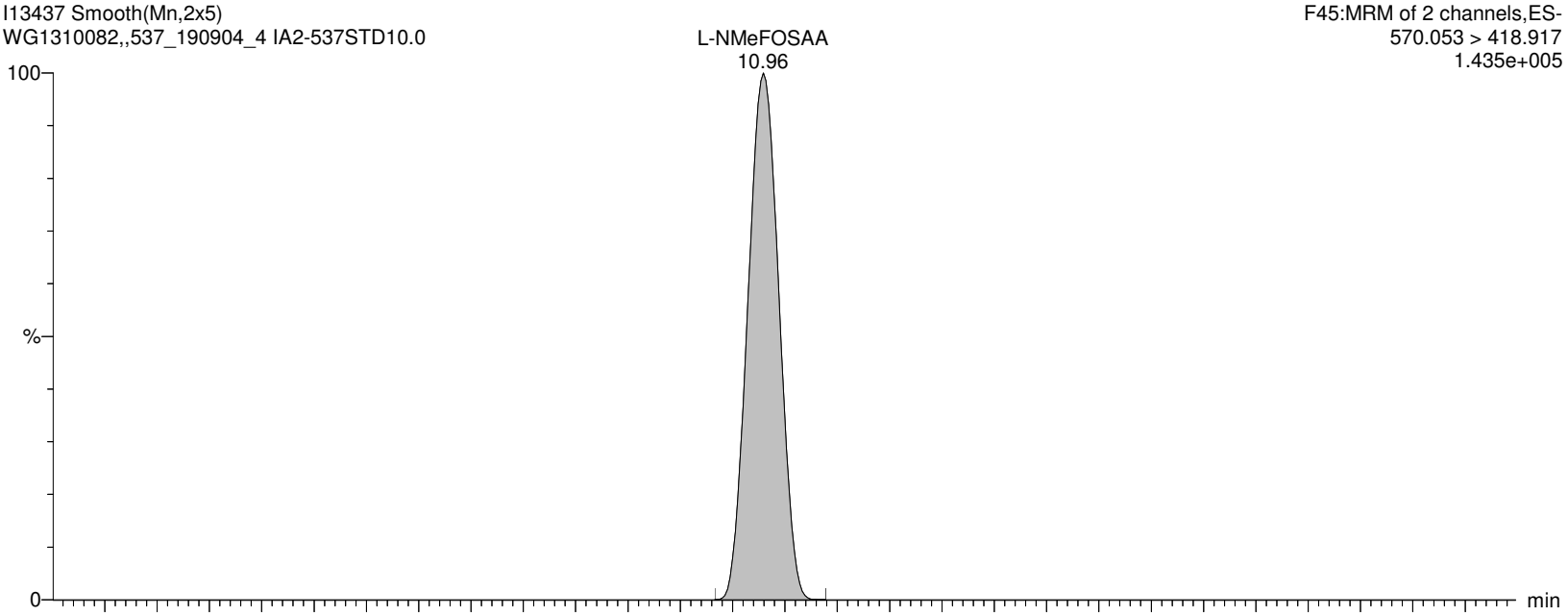

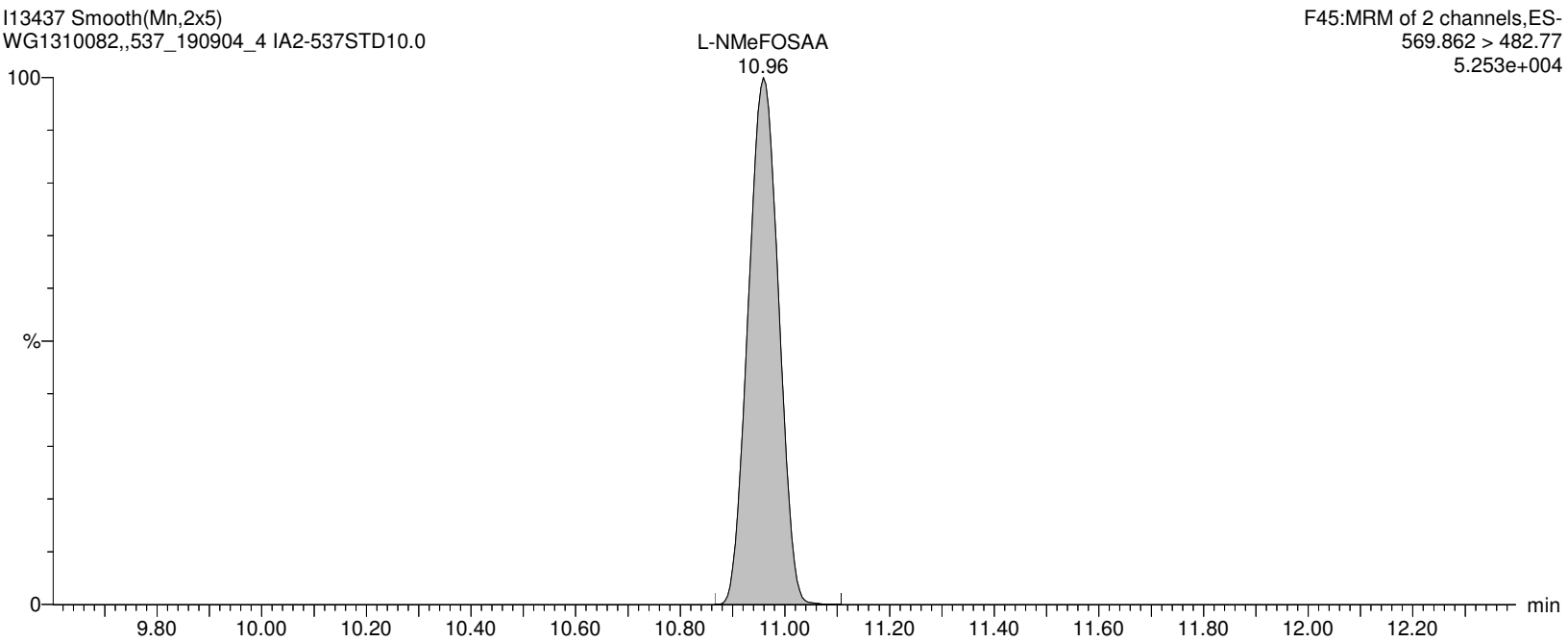

all concentration units in (ng/mL)

Alpha Analytical Inc.
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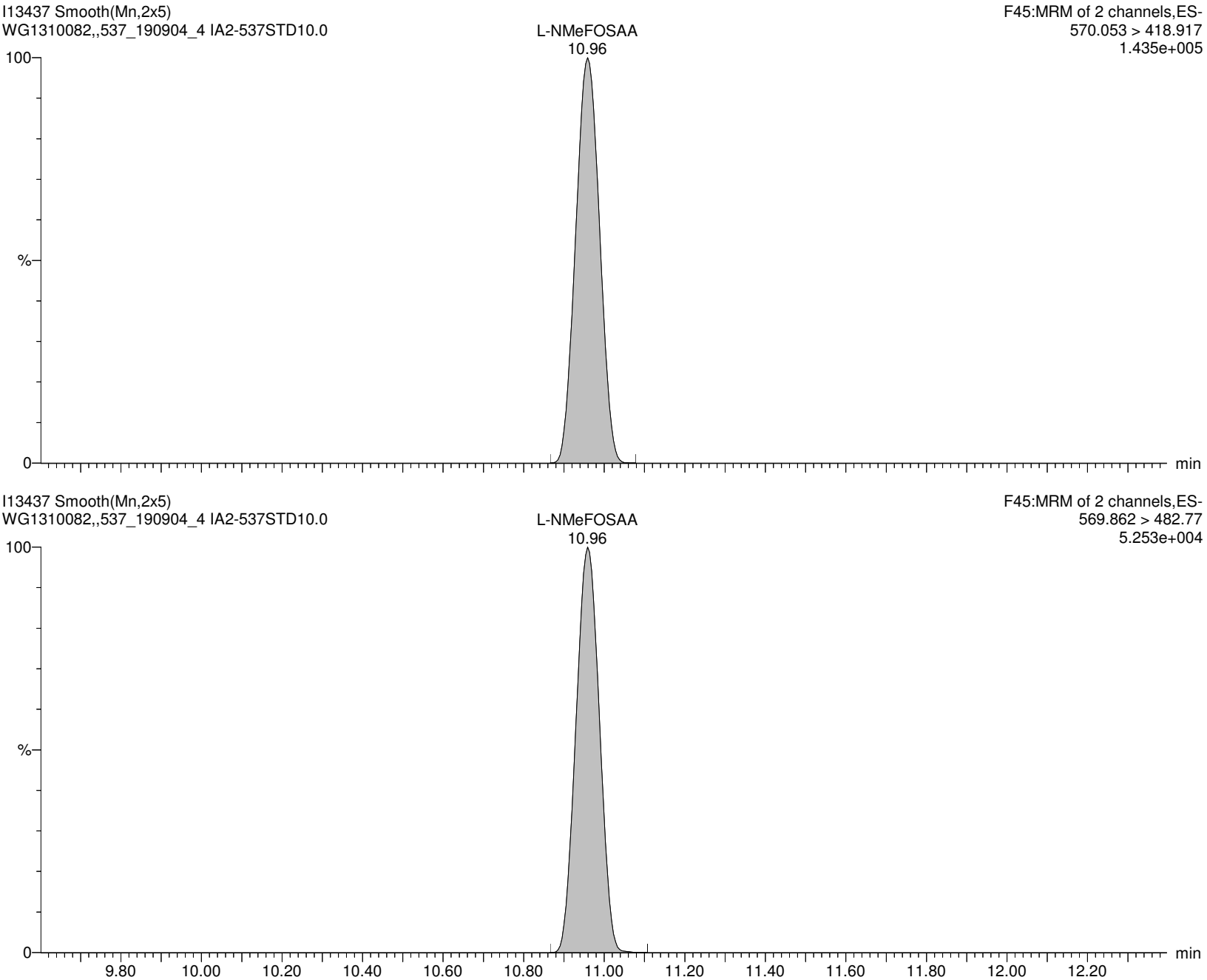

all concentration units in (ng/mL)

Alpha Analytical Inc.
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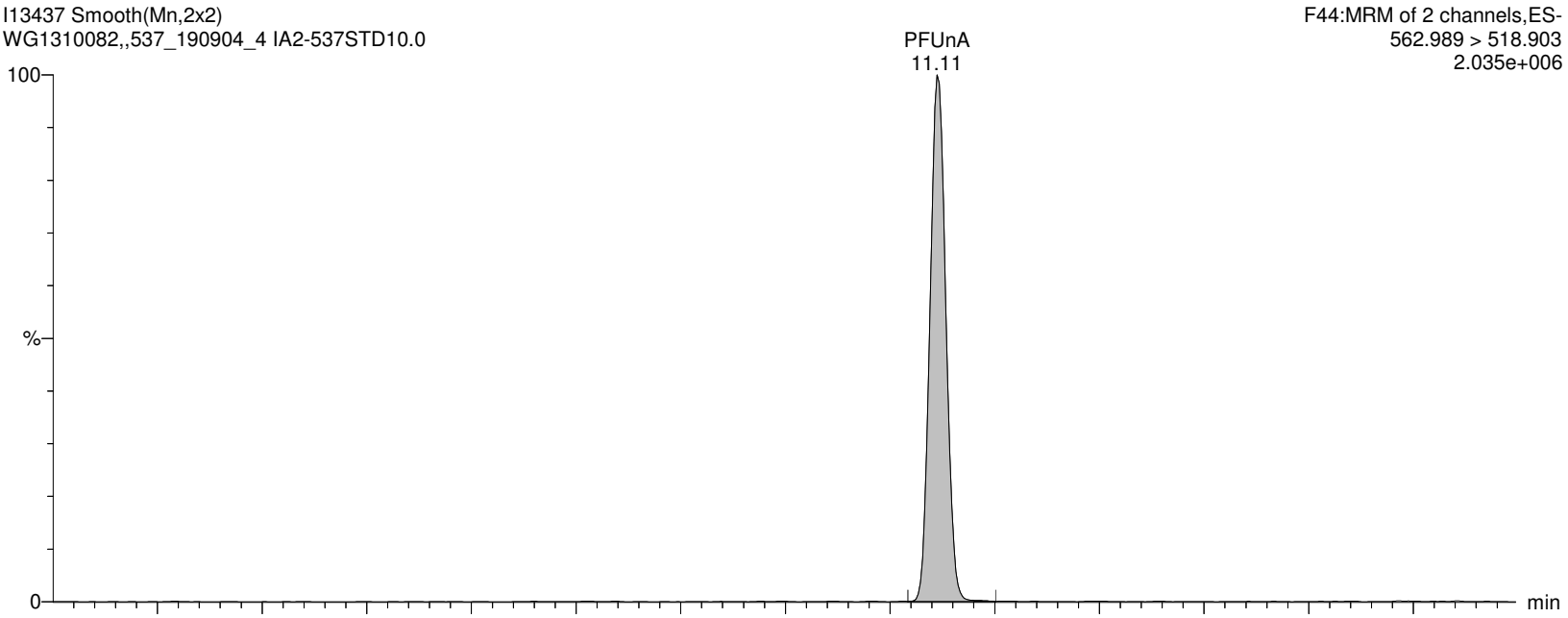

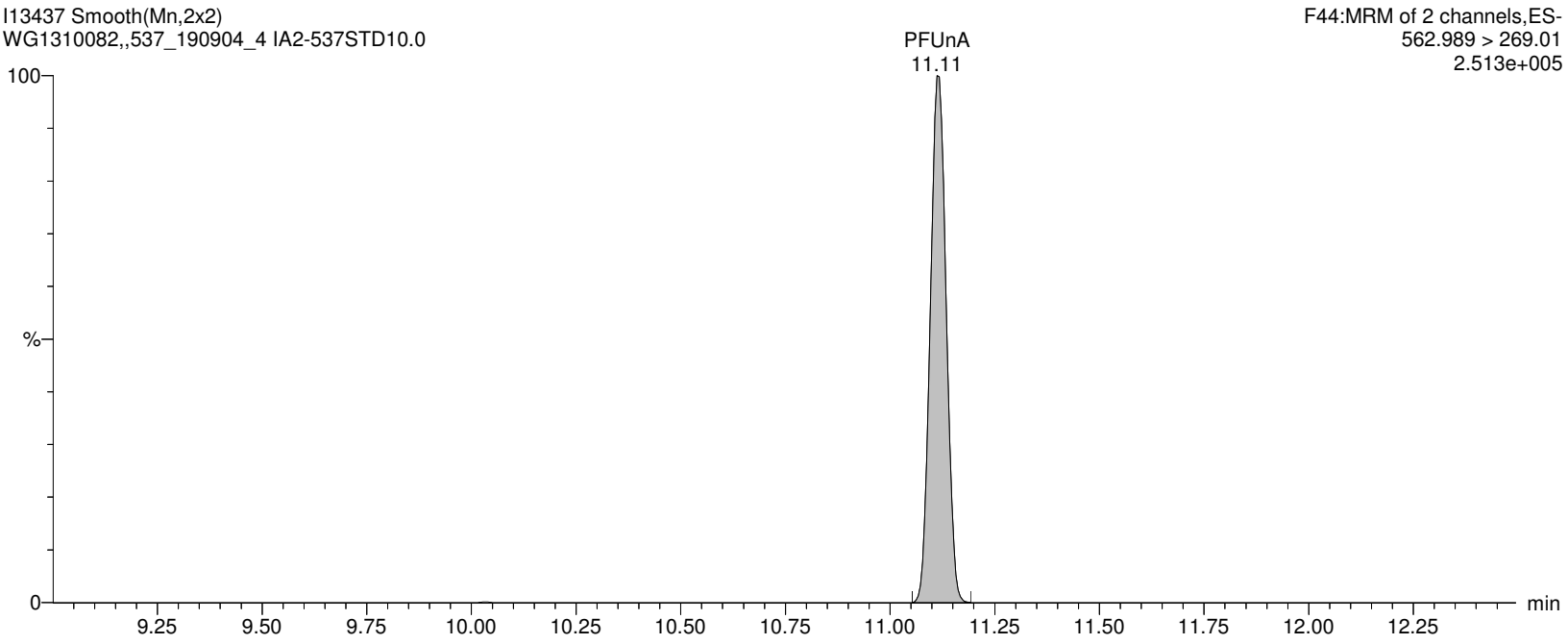

all concentration units in (ng/mL)

Alpha Analytical Inc.
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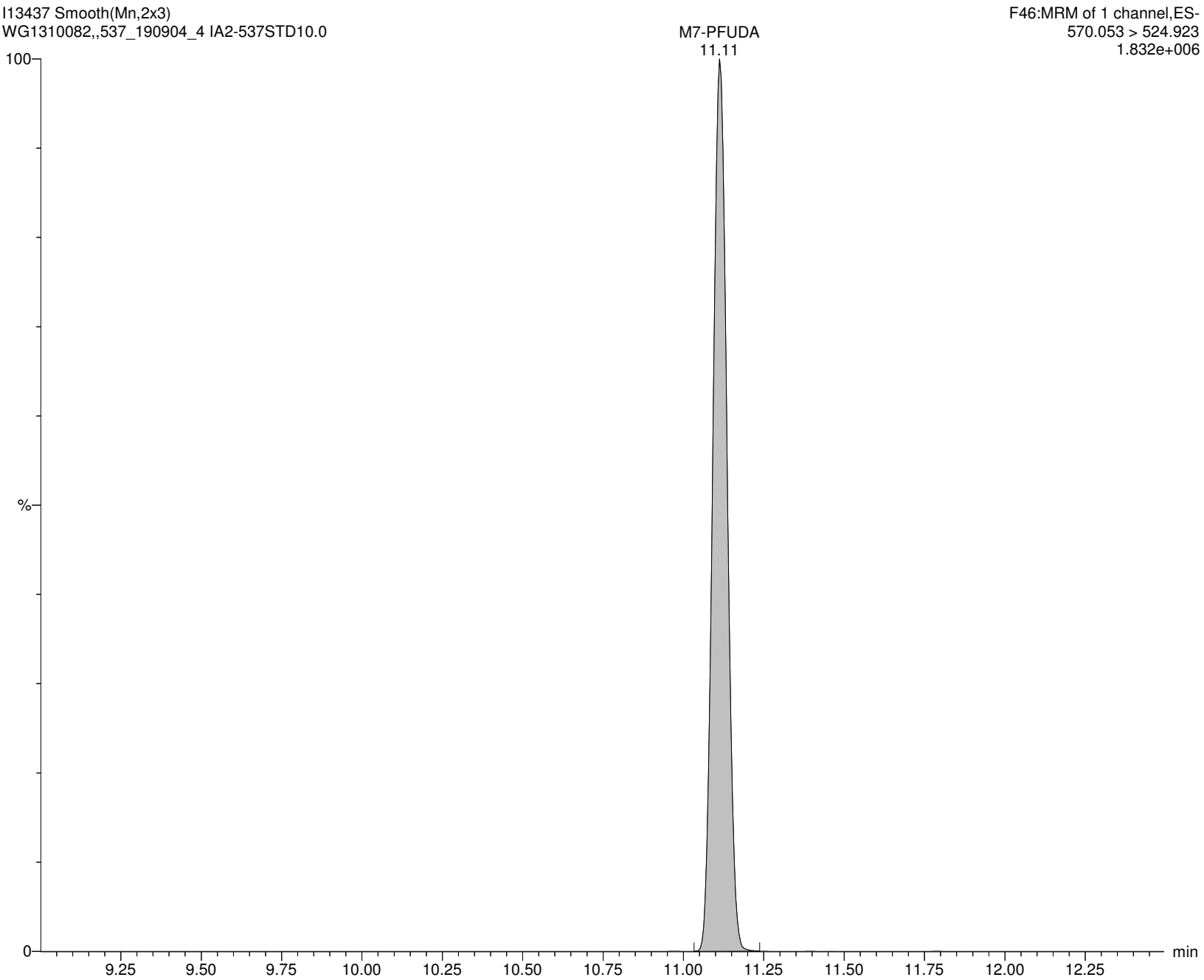
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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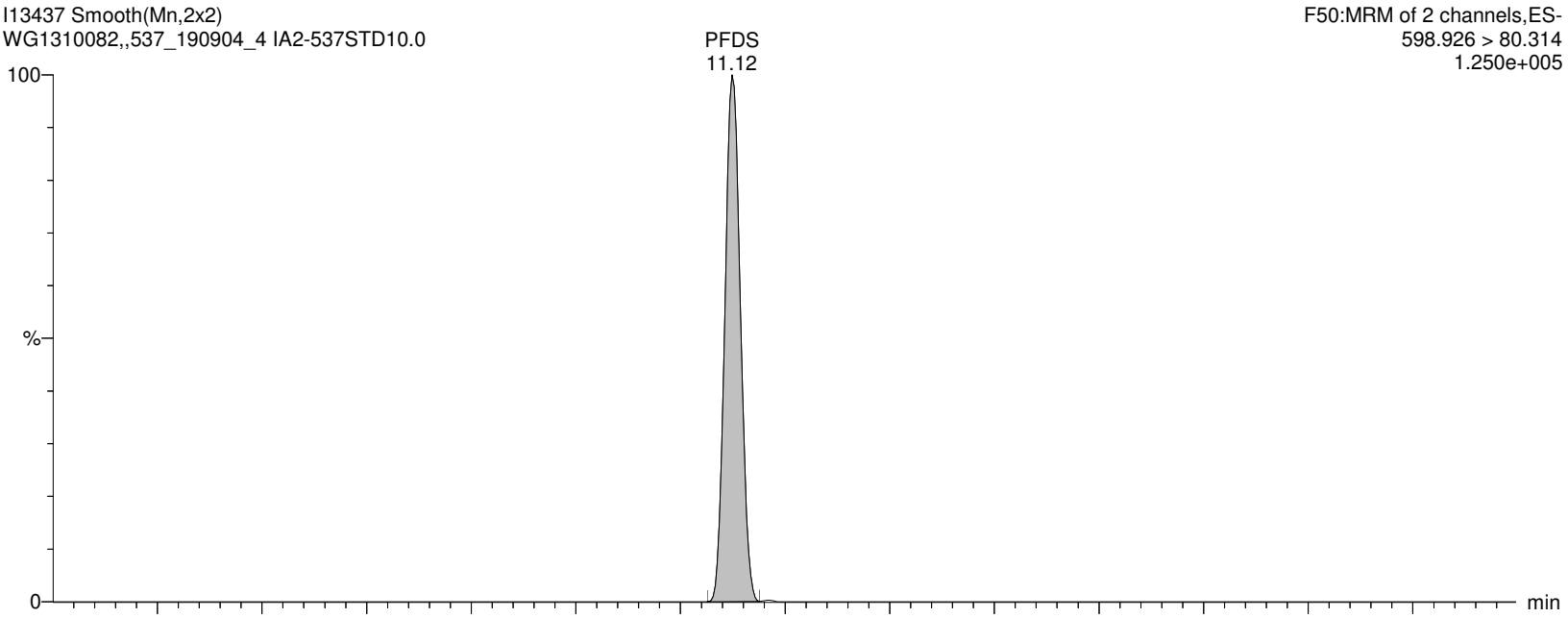
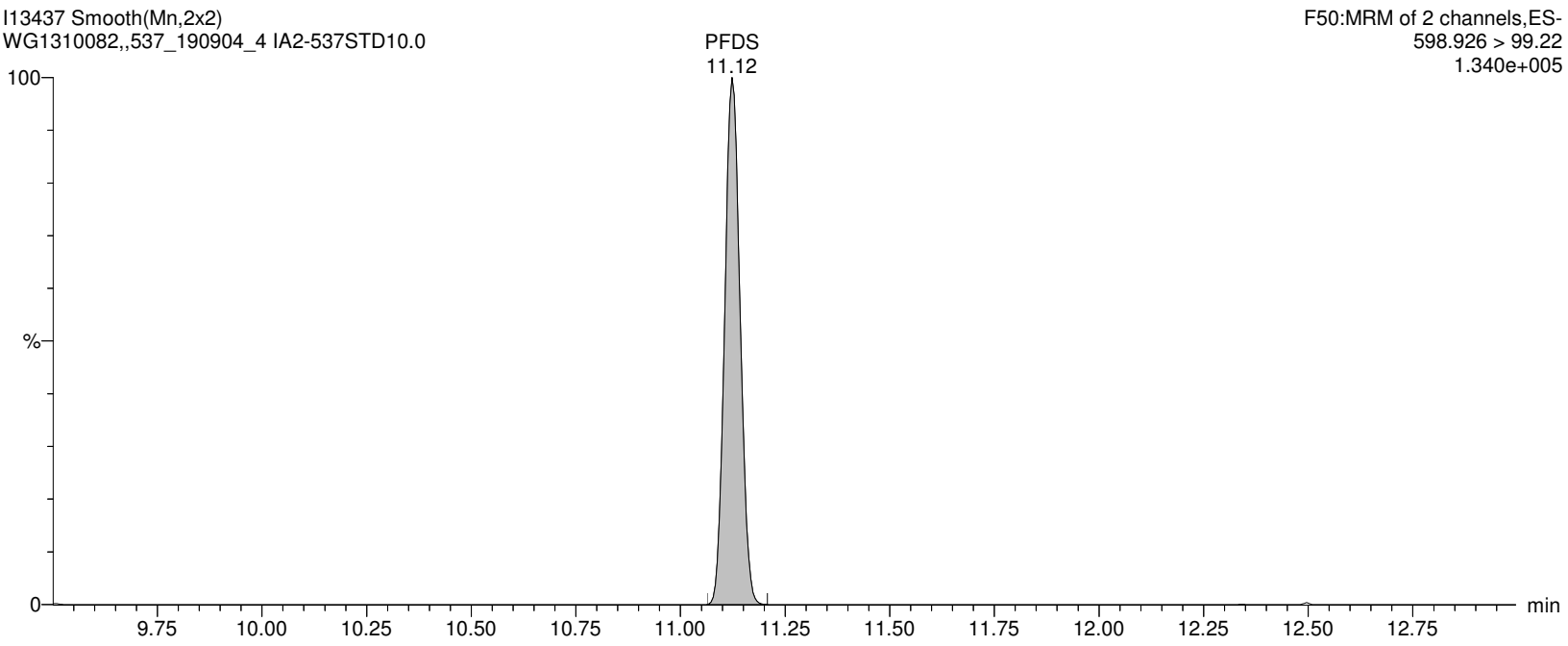
PFDS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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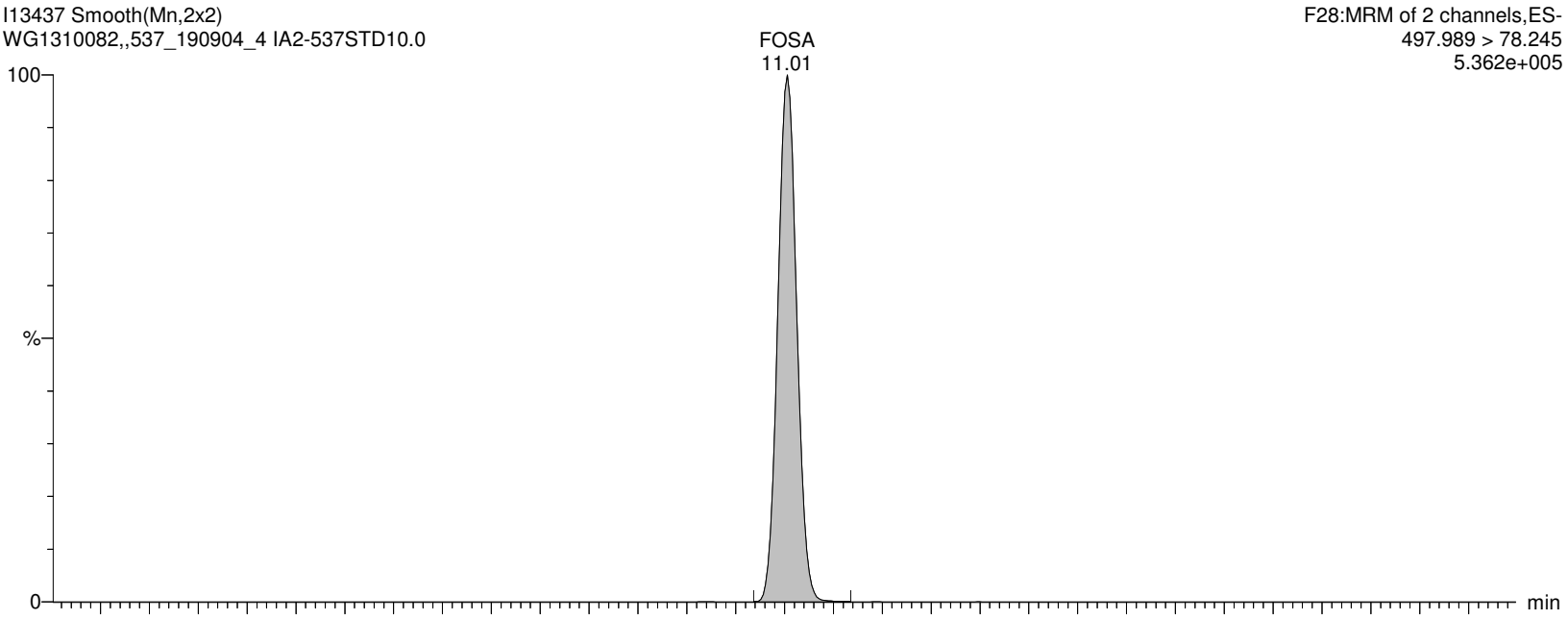

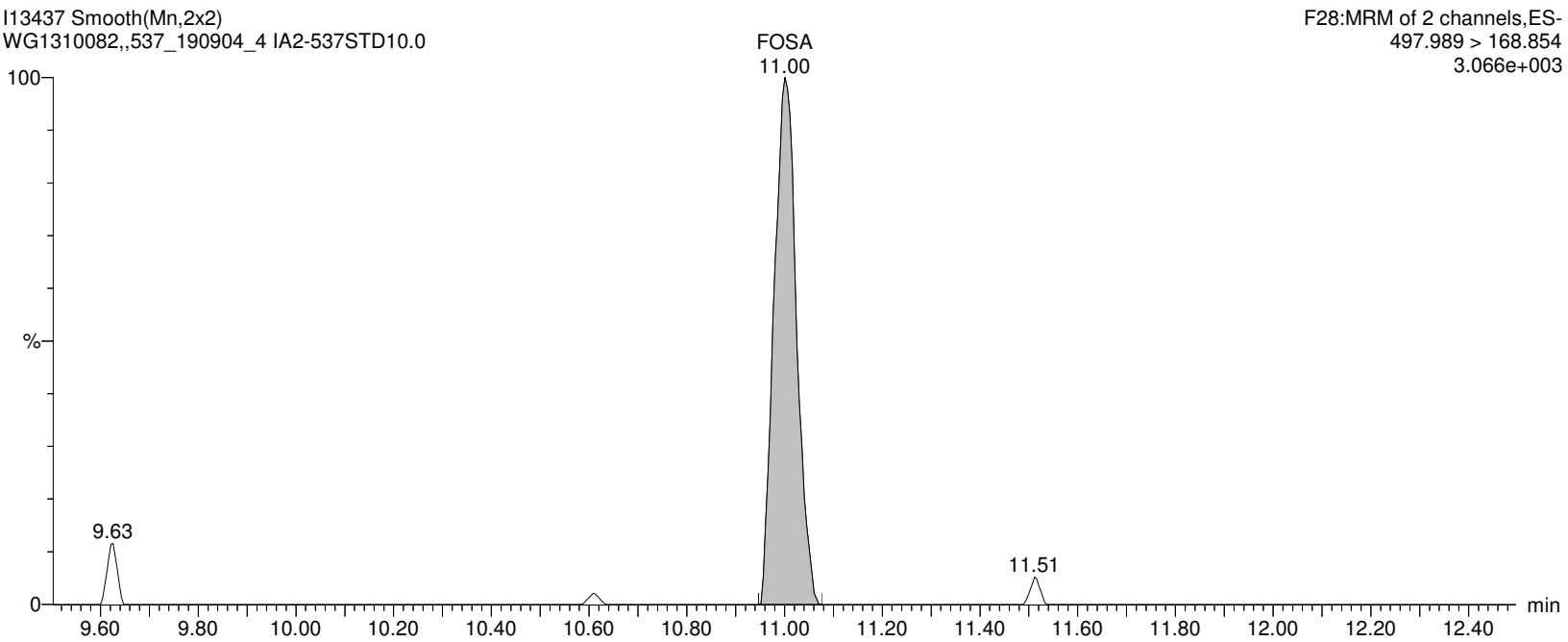

all concentration units in (ng/mL)

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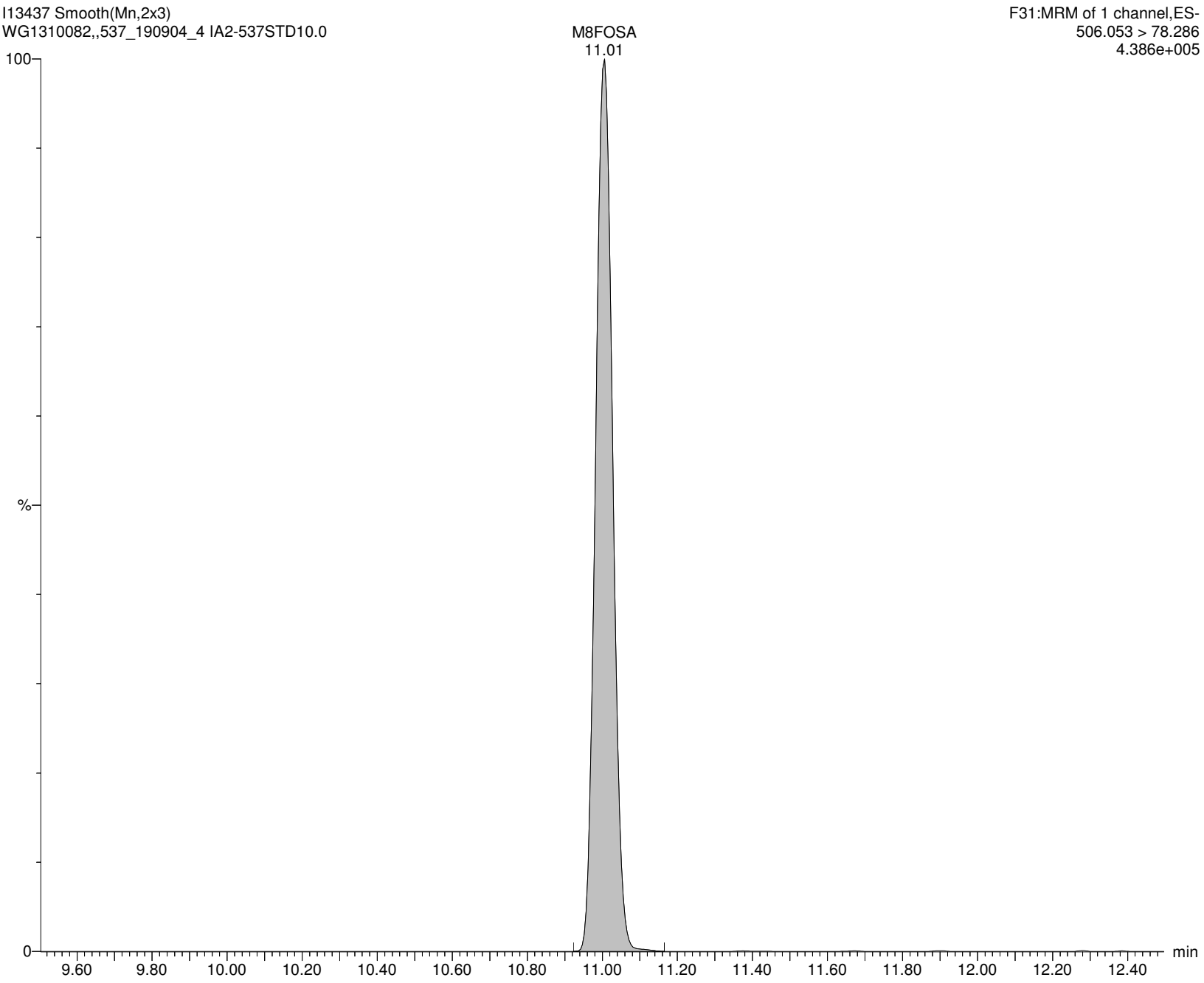

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:55 Eastern Standard Time

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Date: 18-Nov-2019
Time: 11:26:51
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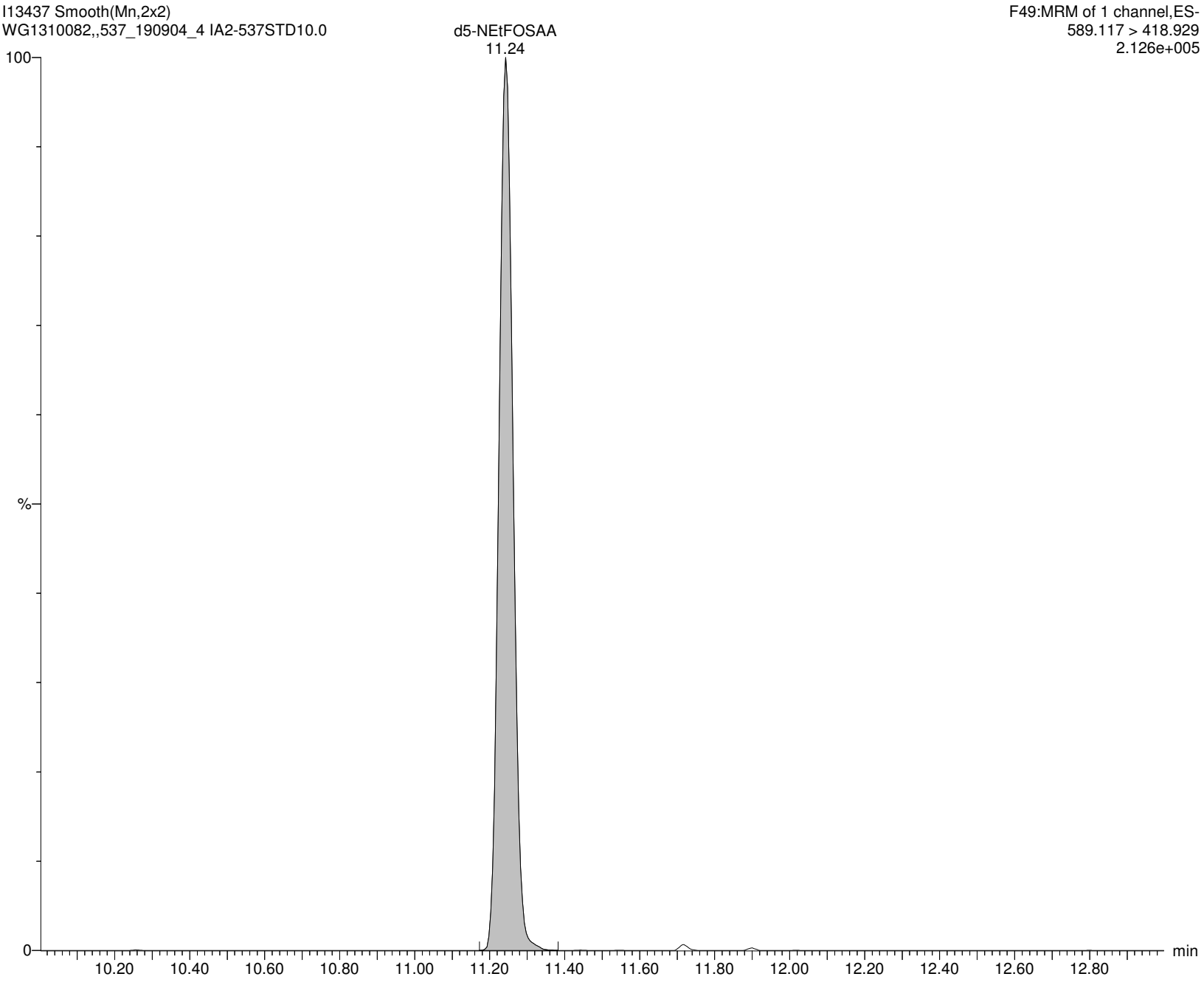

all concentration units in (ng/mL)

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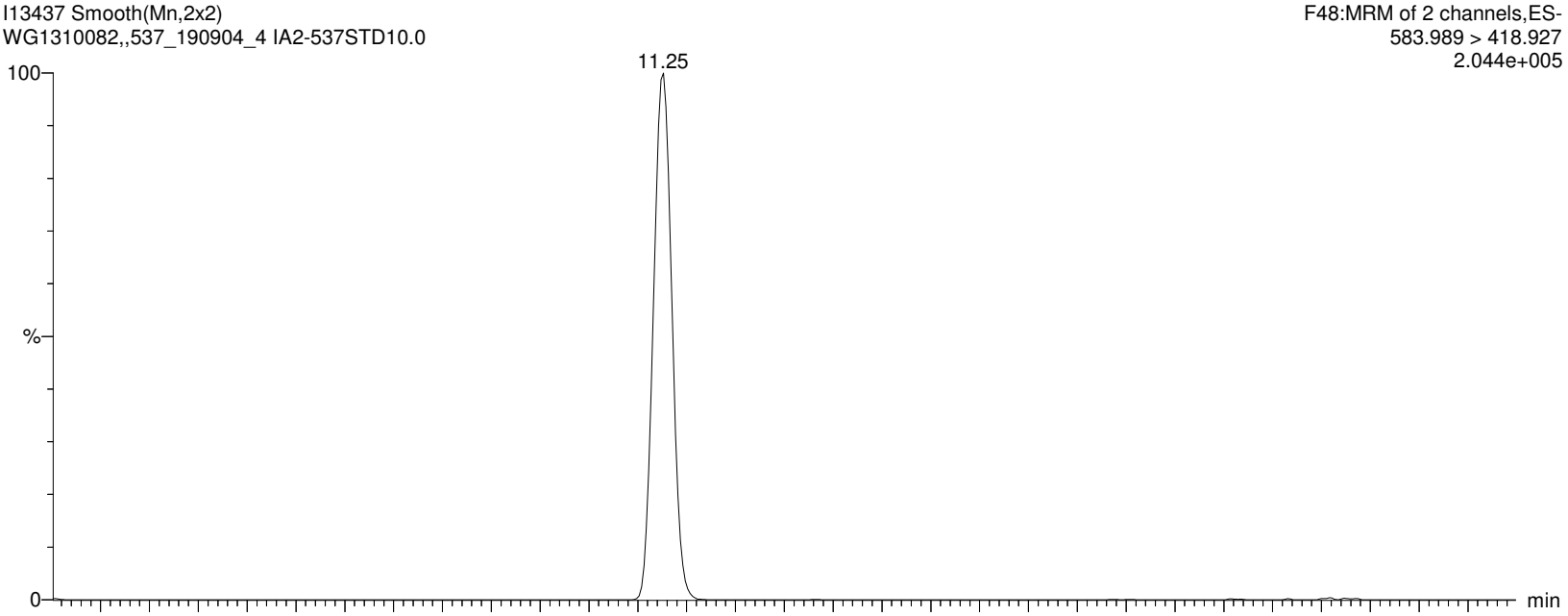

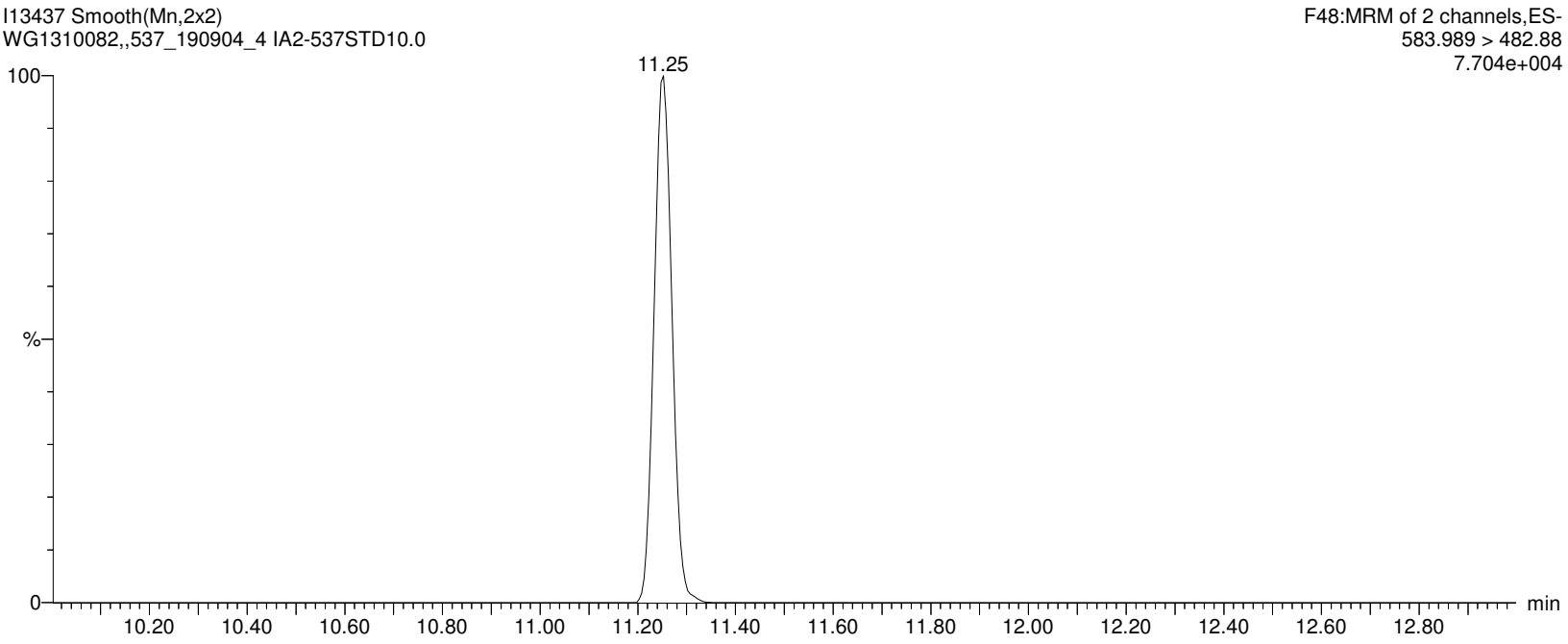

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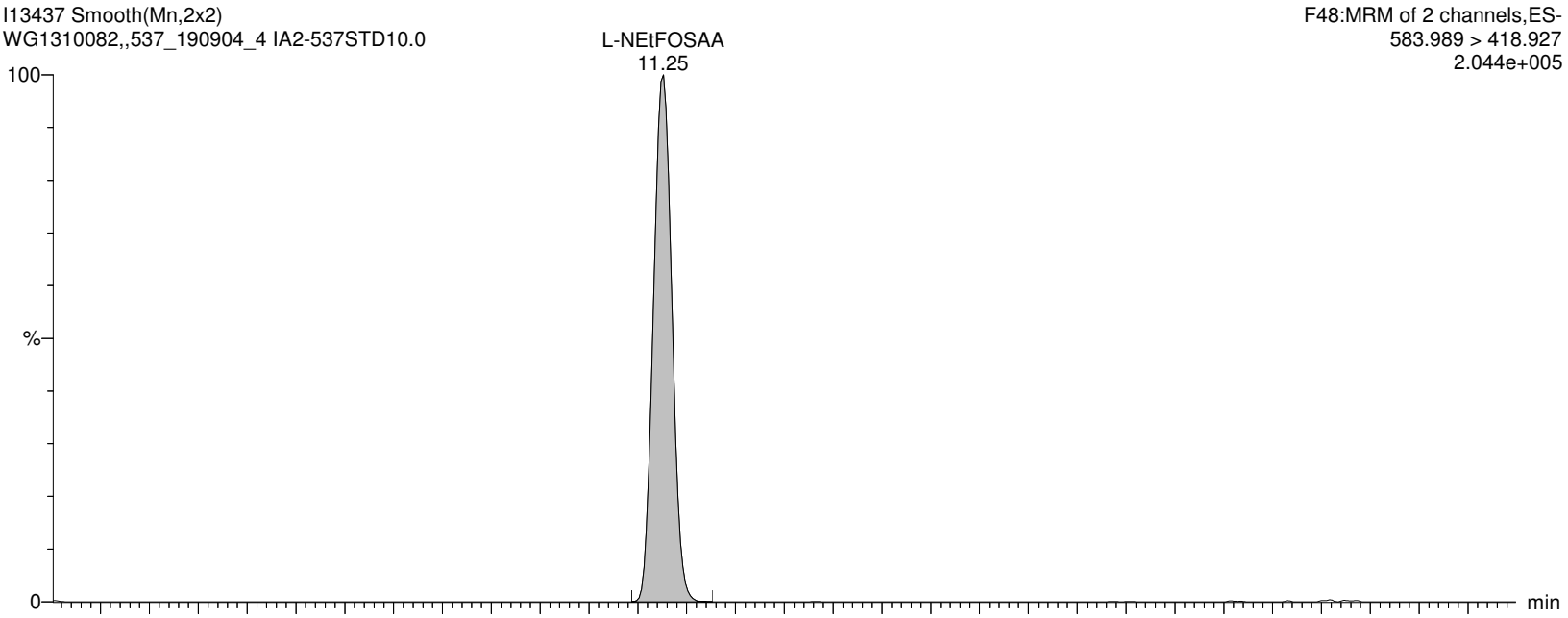

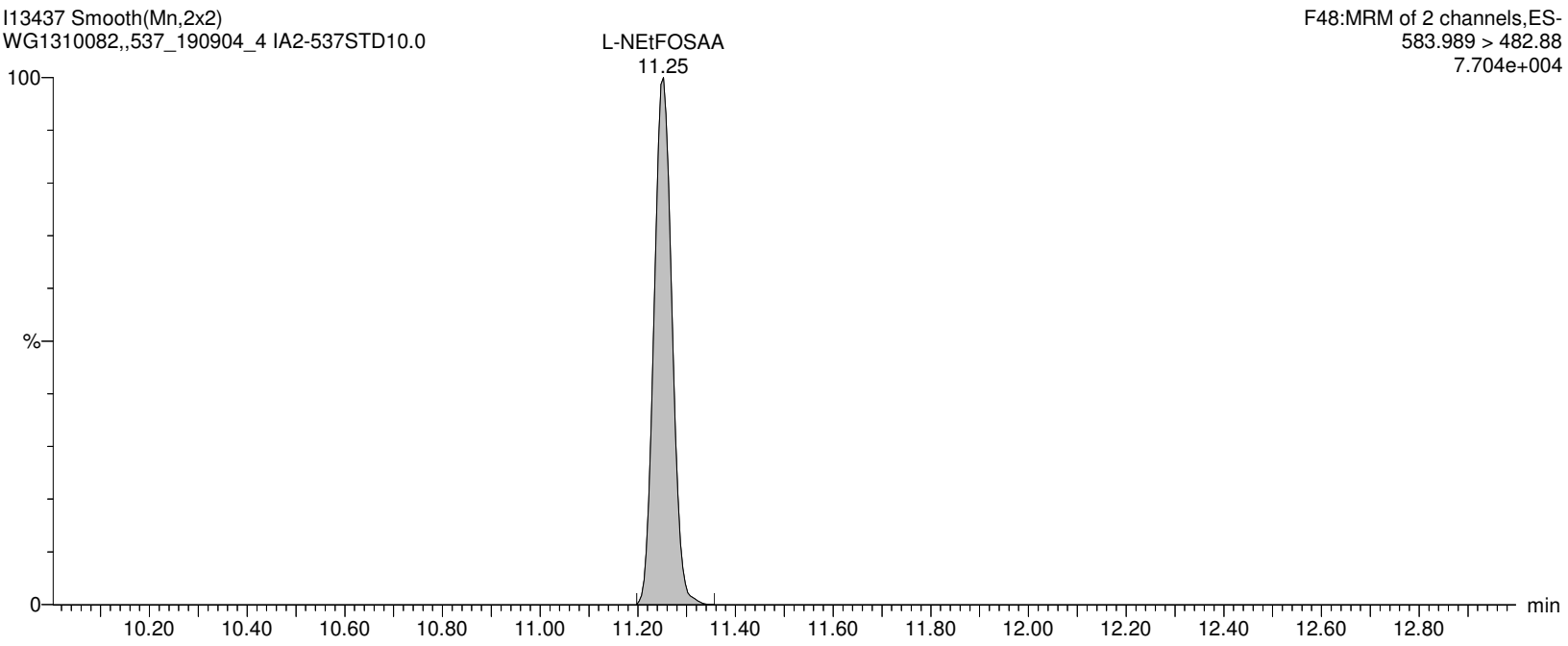

all concentration units in (ng/mL)

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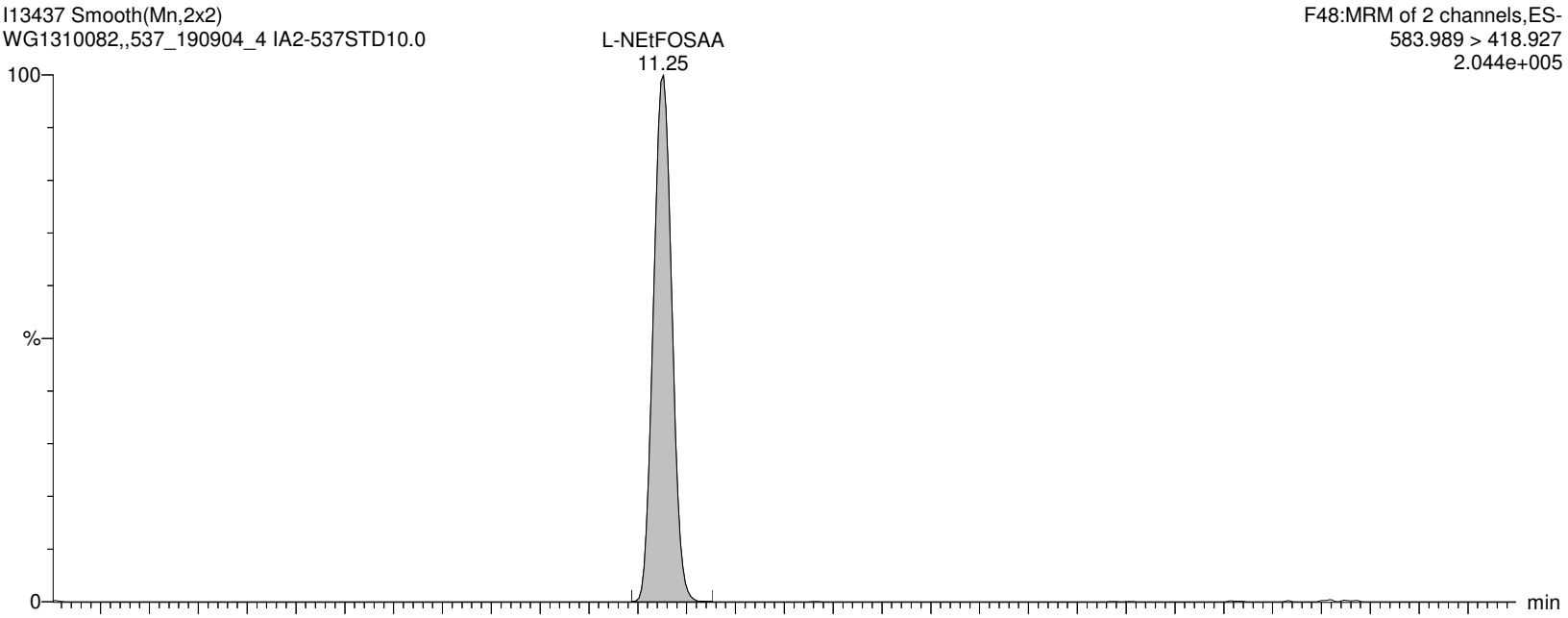

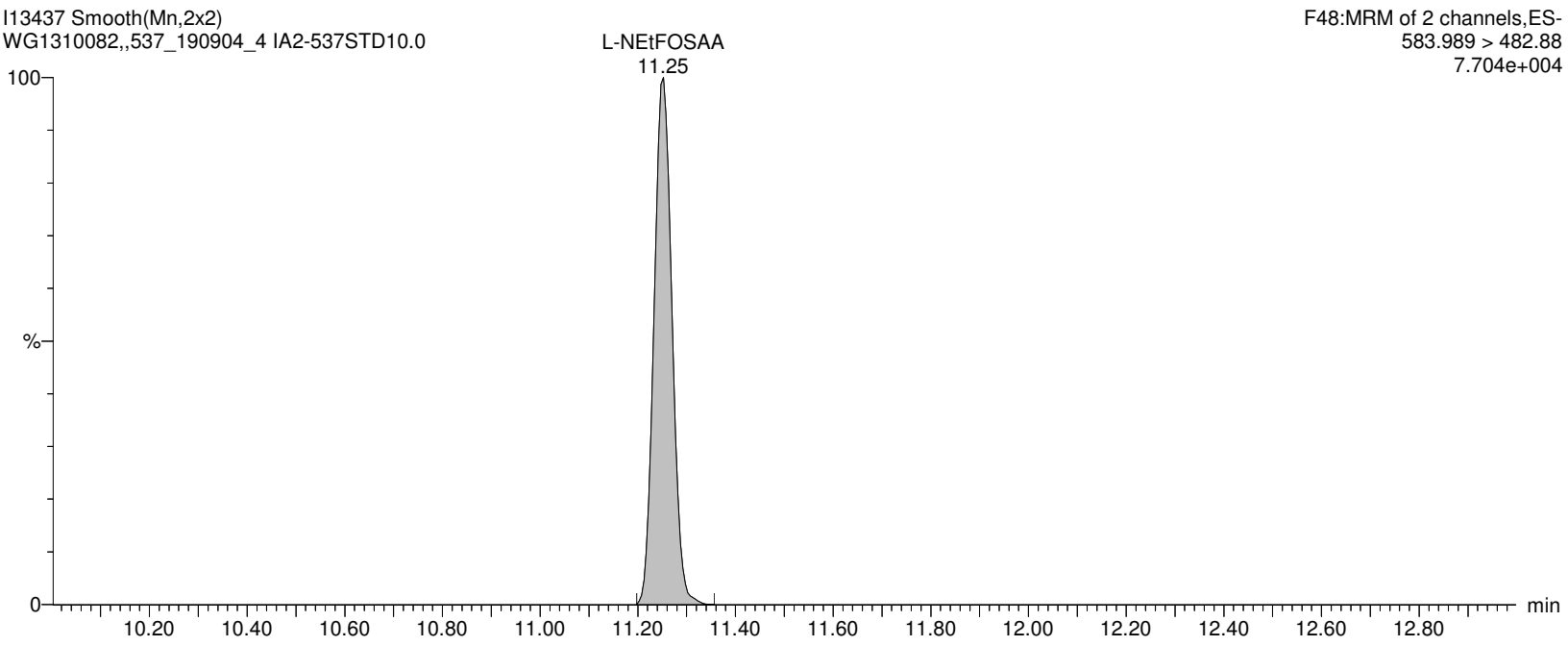

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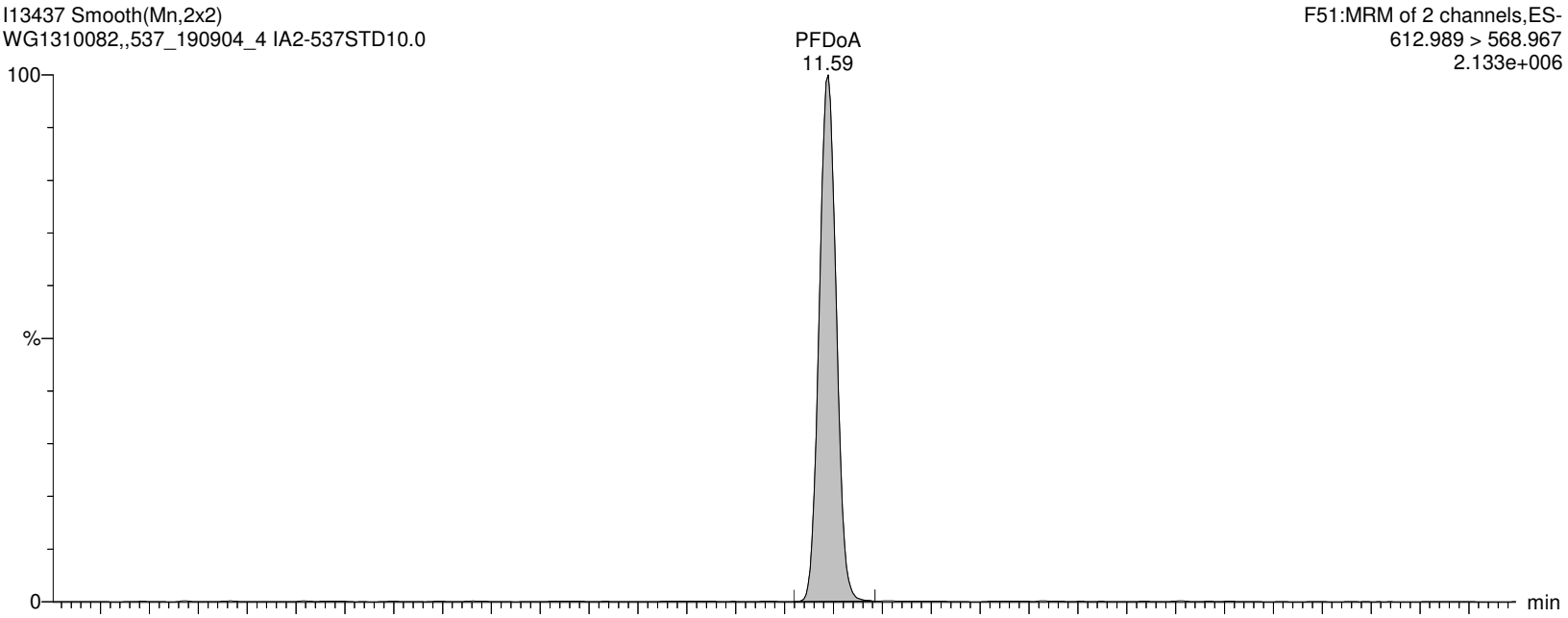

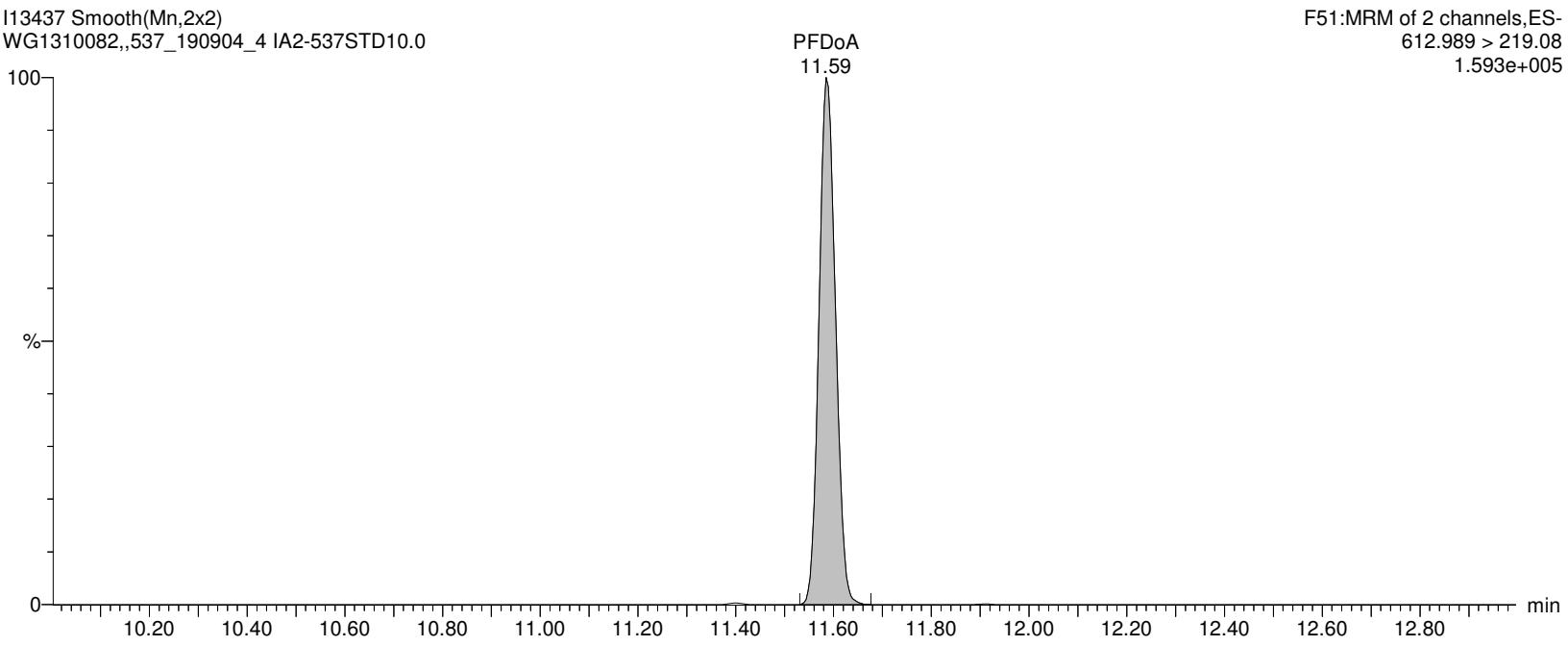

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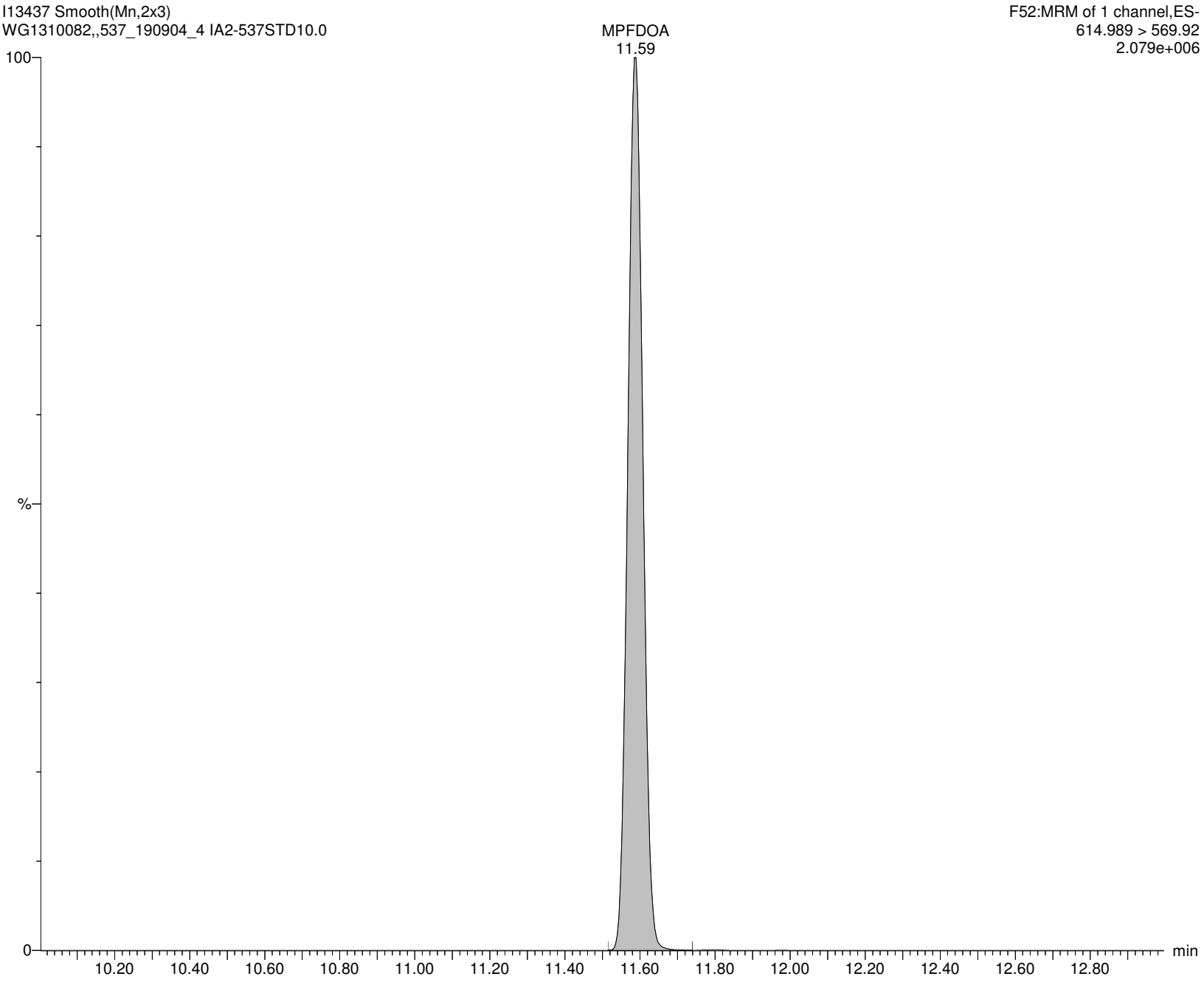

all concentration units in (ng/mL)

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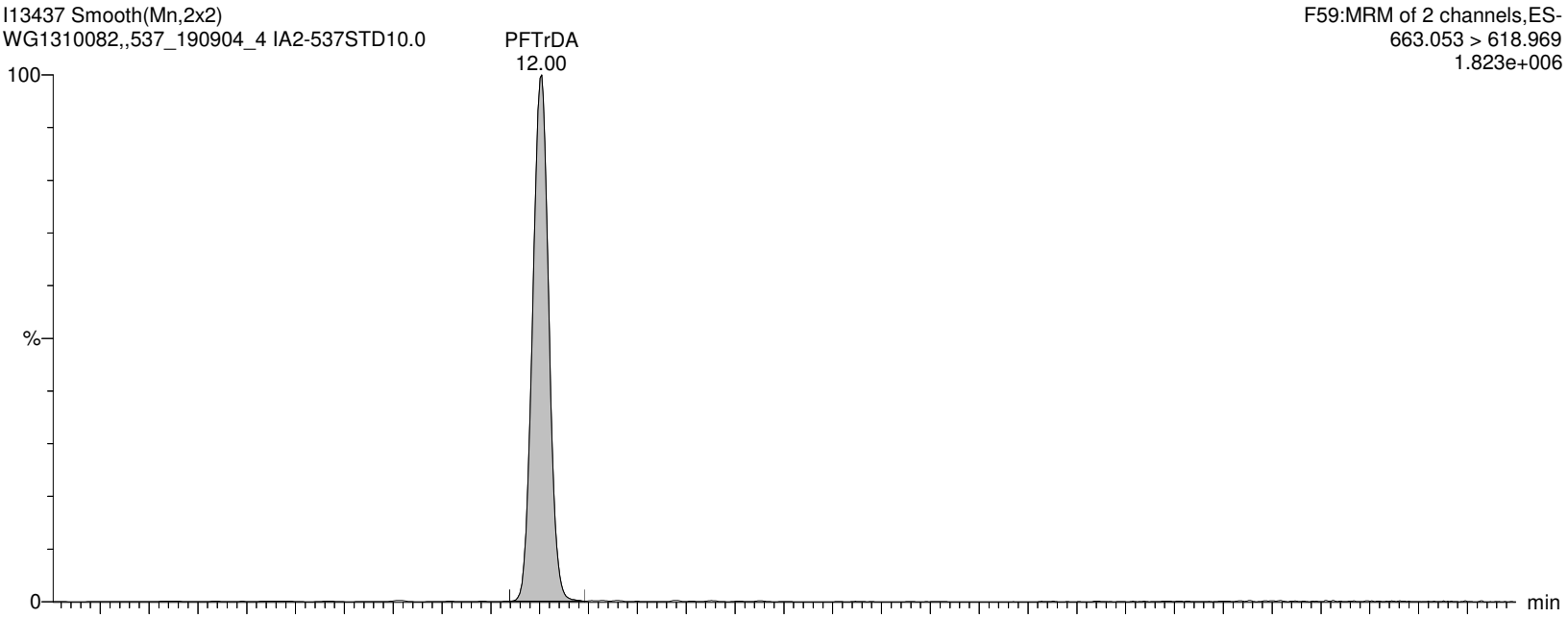

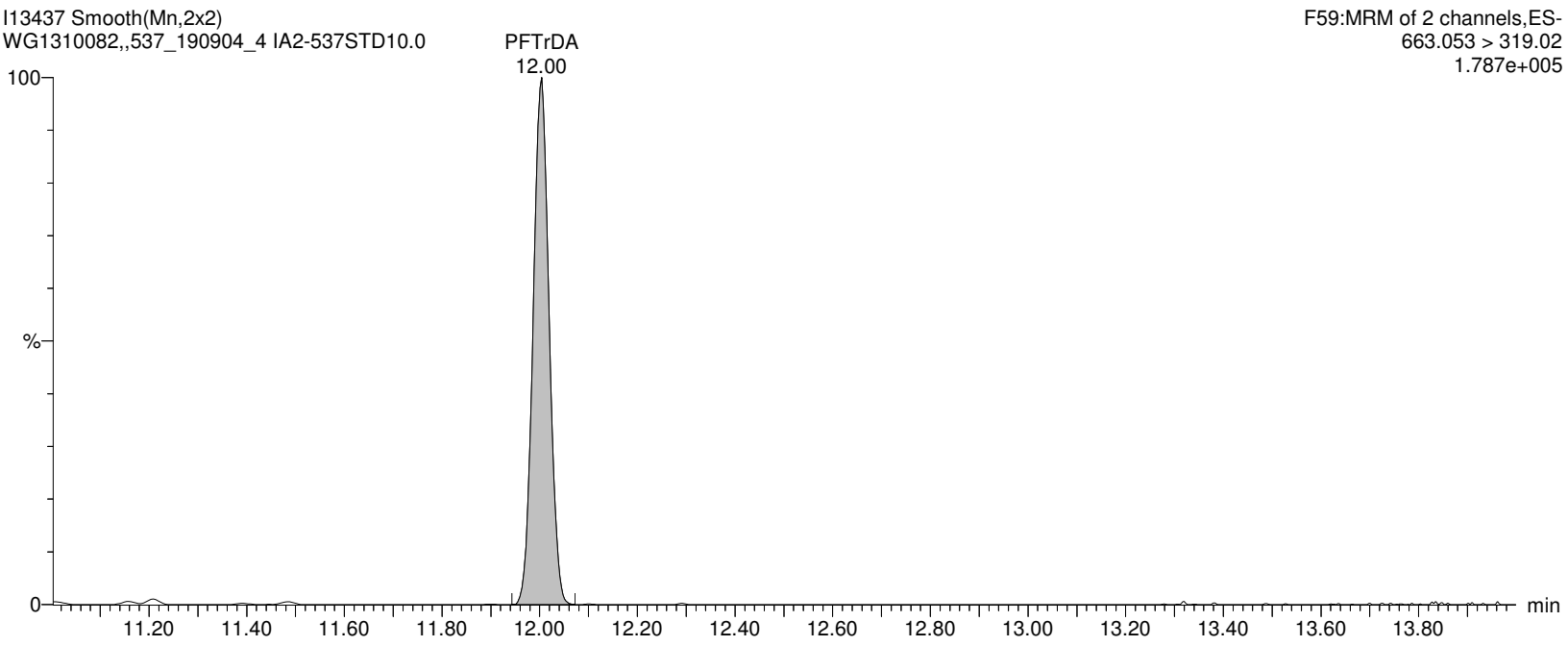

all concentration units in (ng/mL)

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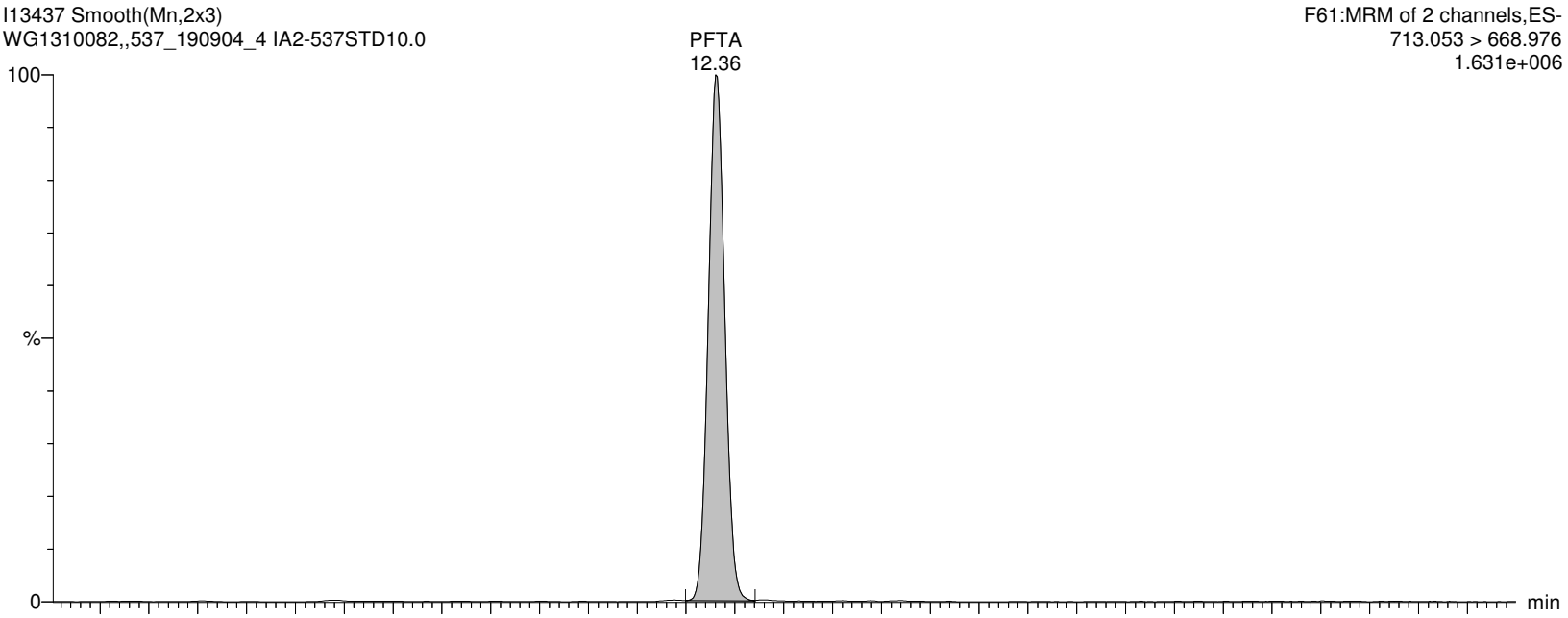

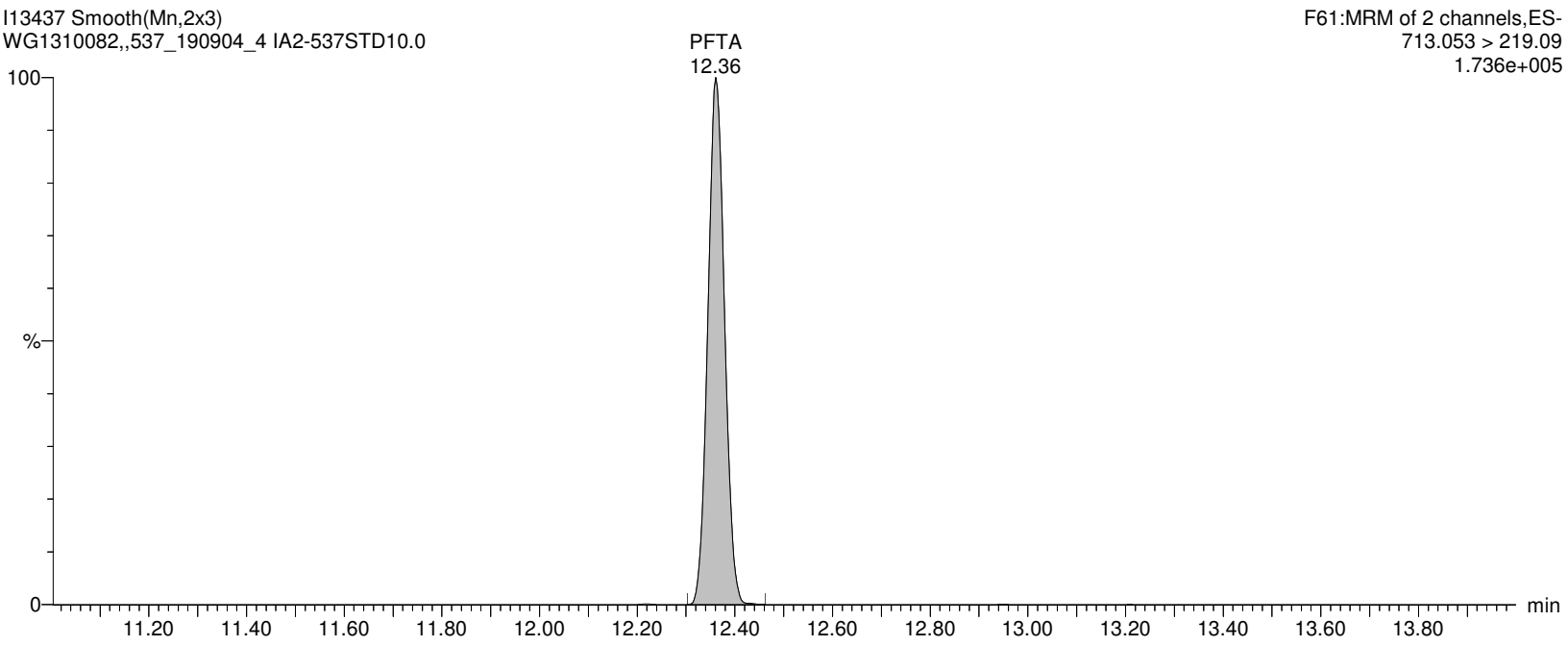

all concentration units in (ng/mL)

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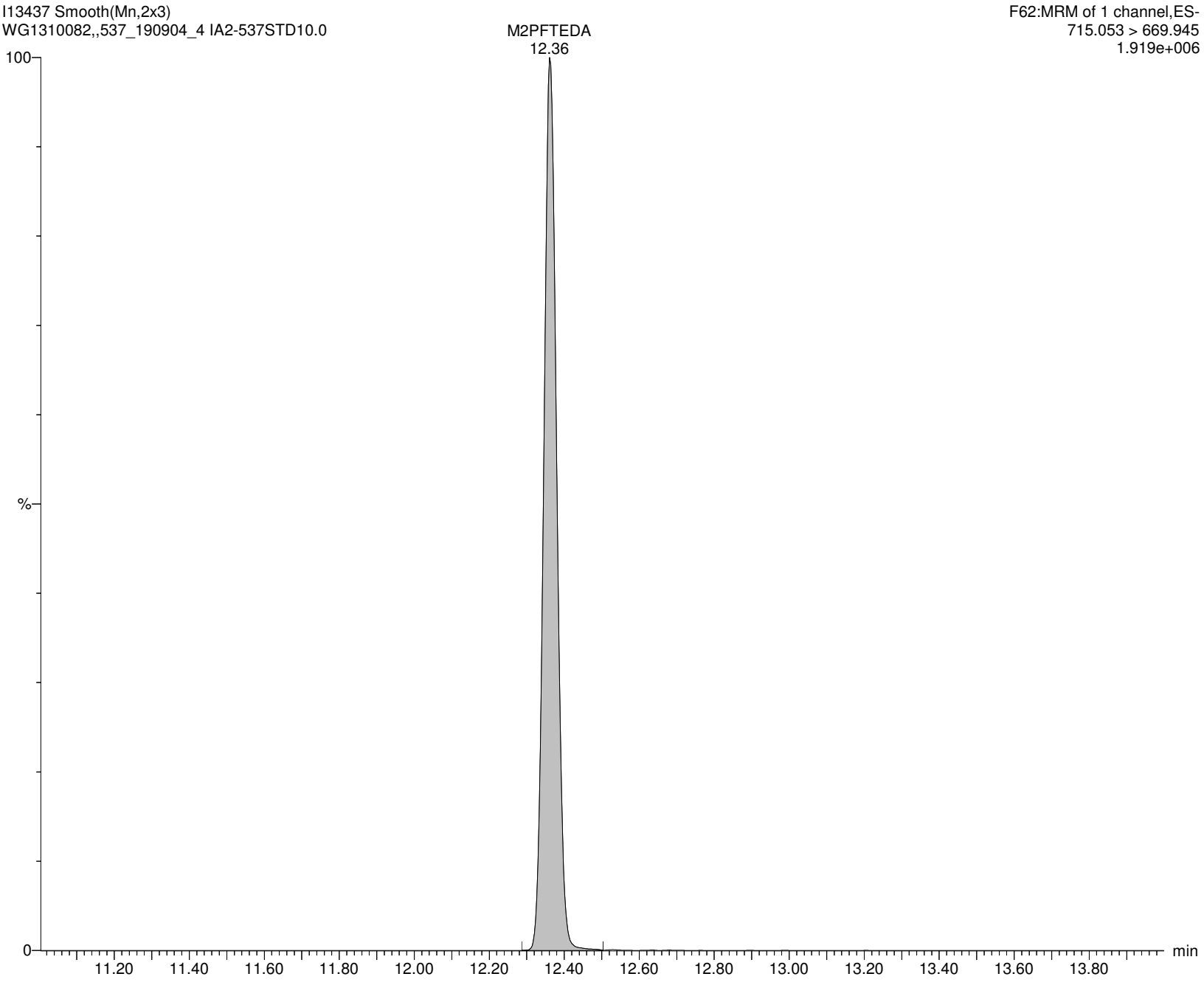

all concentration units in (ng/mL)

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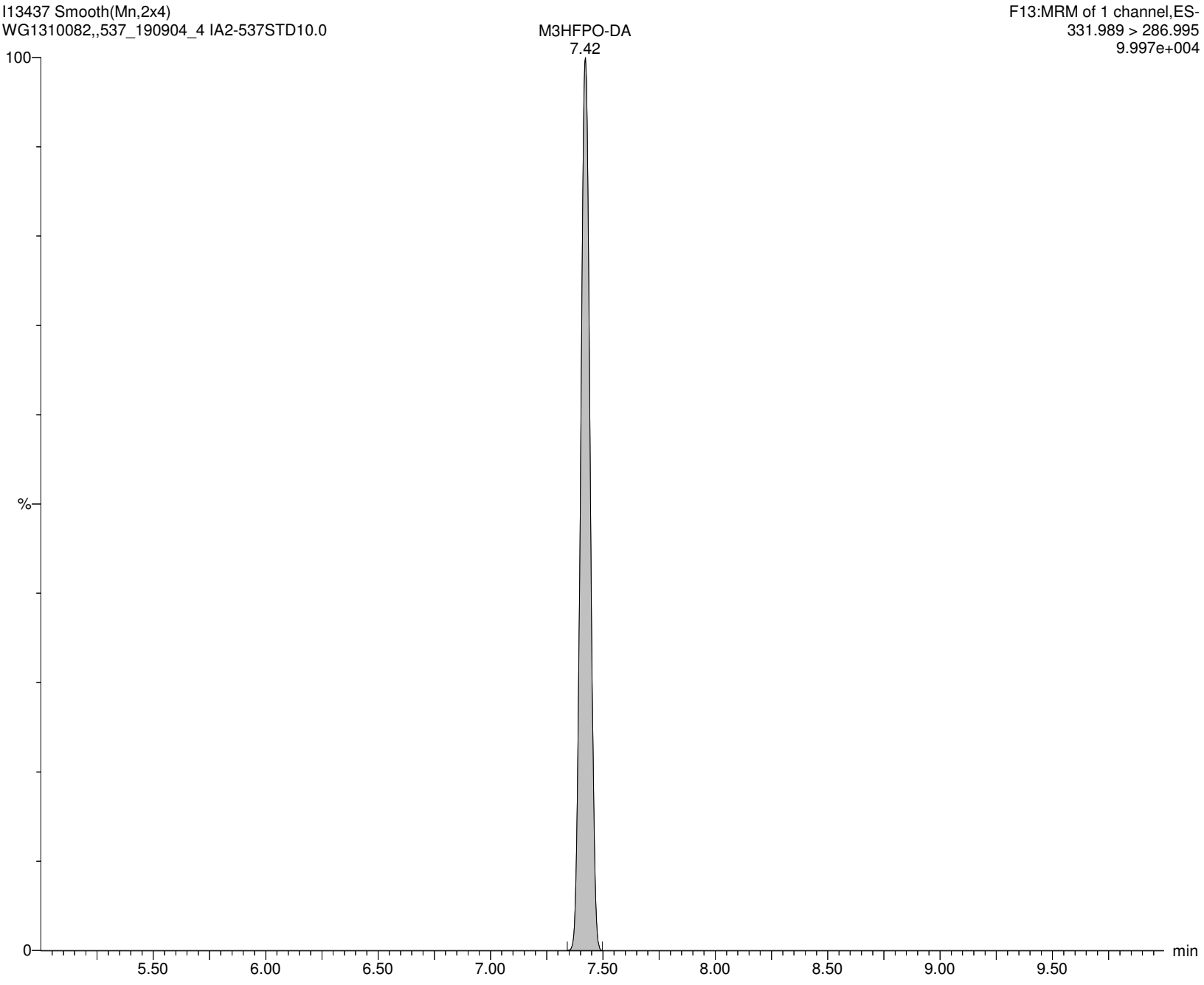

all concentration units in (ng/mL)

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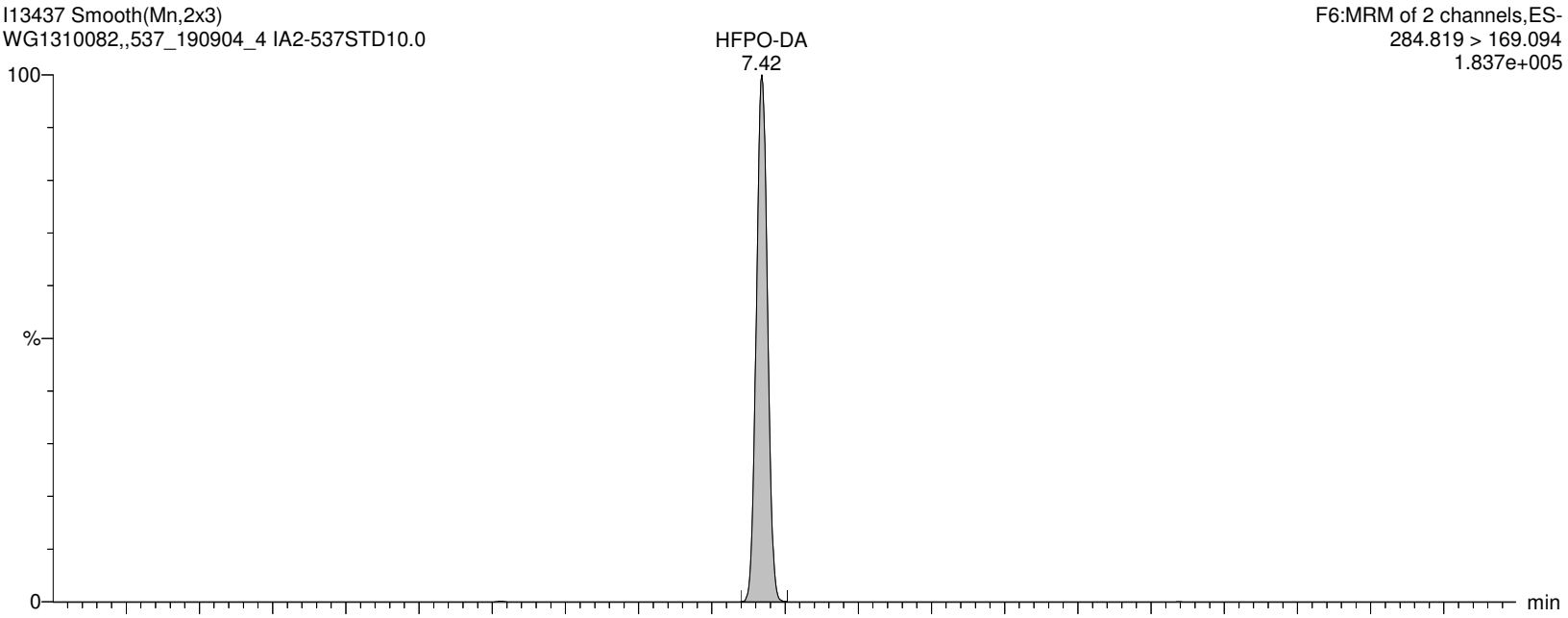

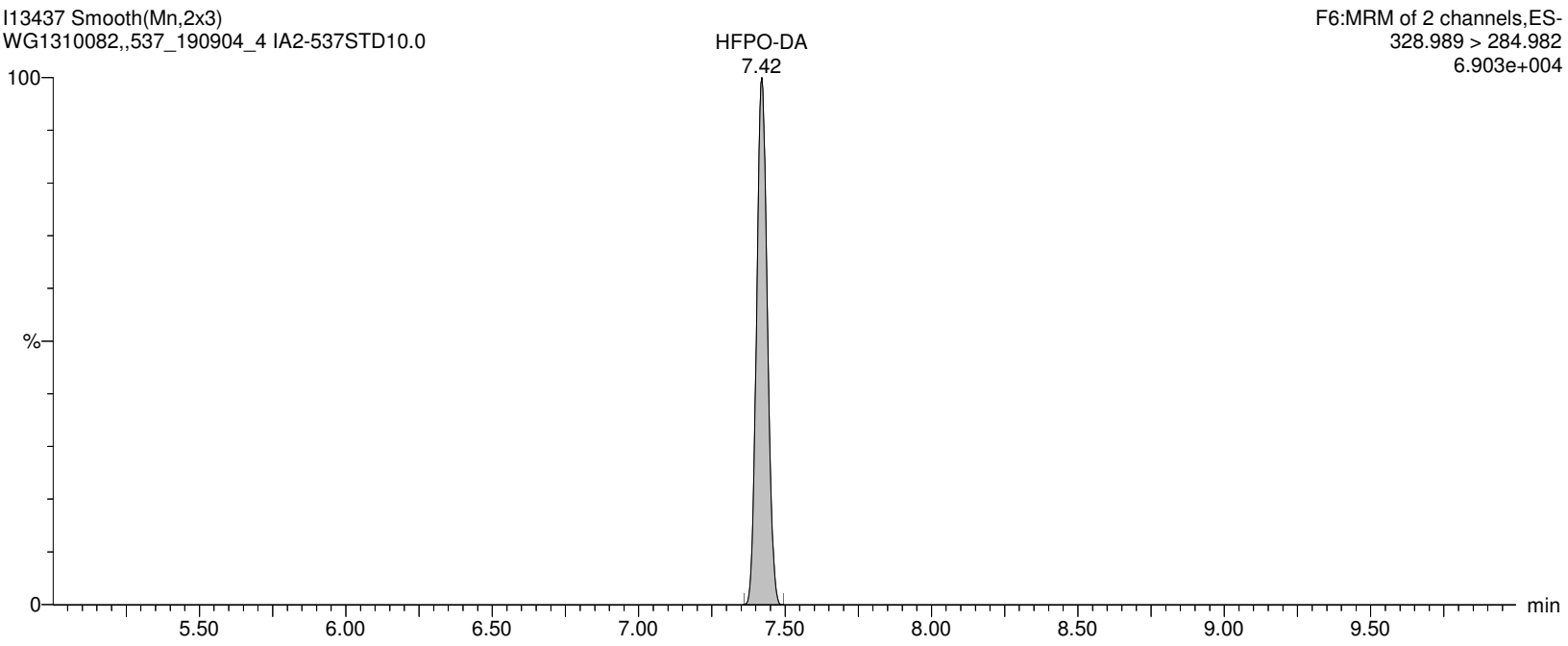

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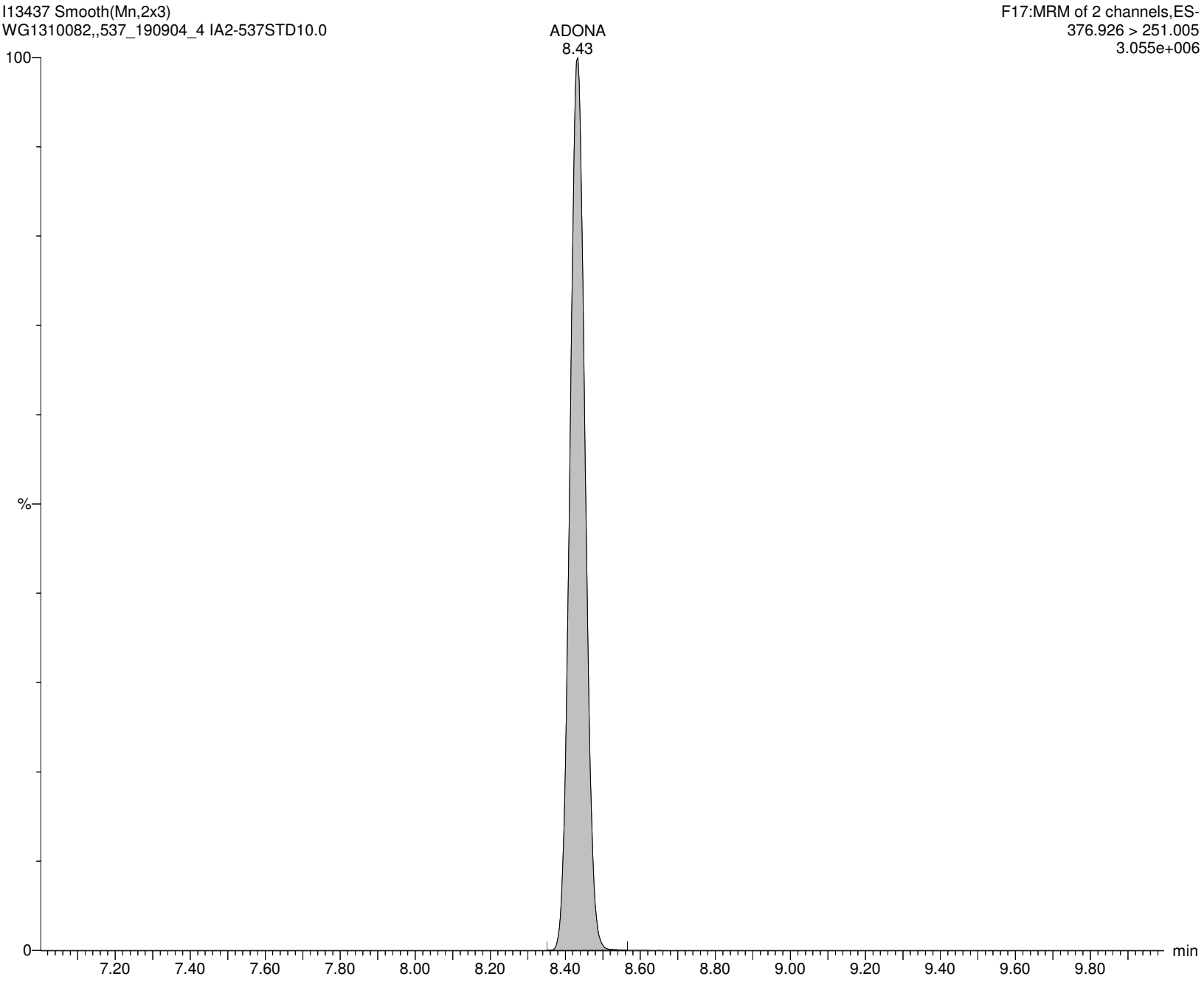

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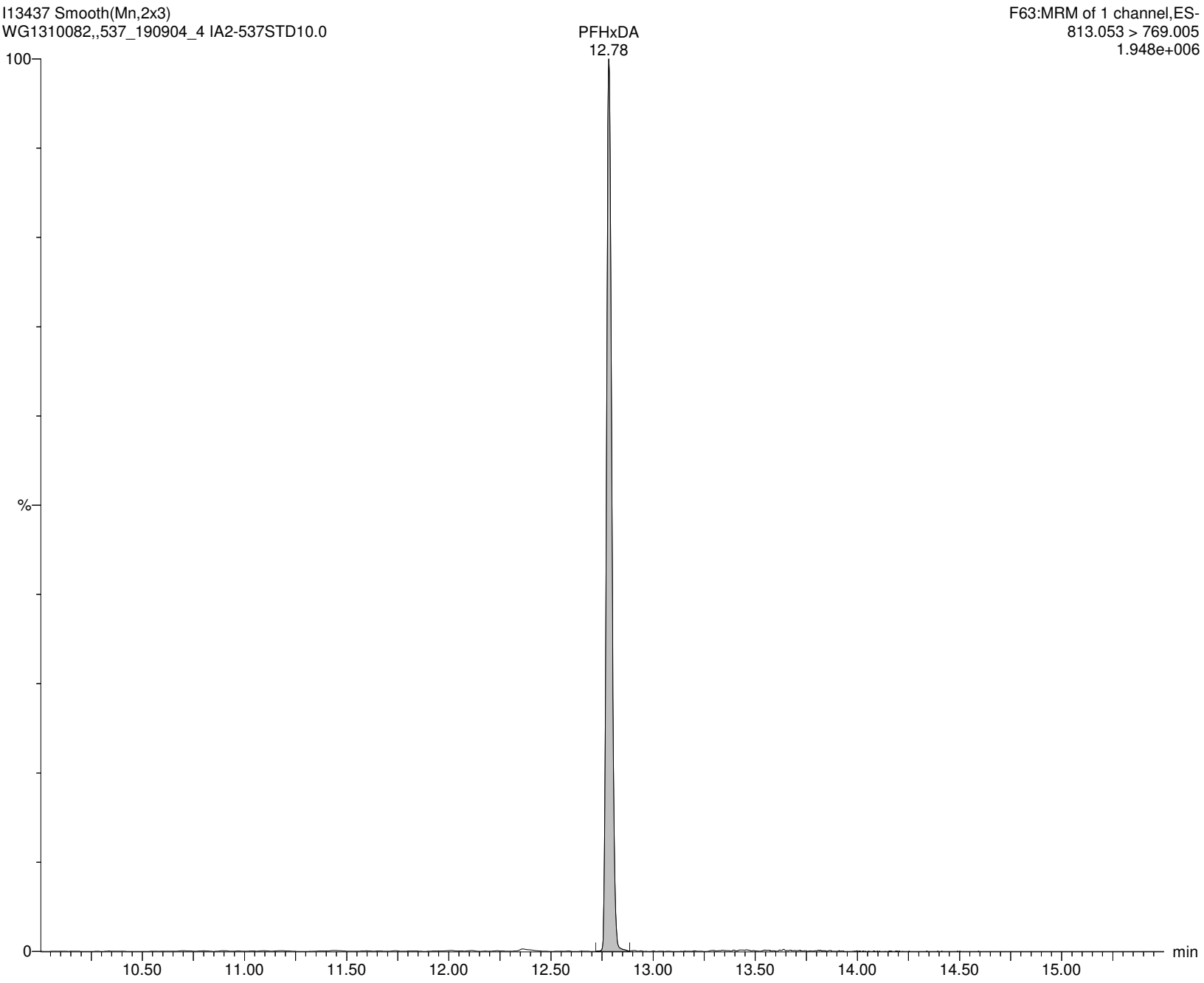

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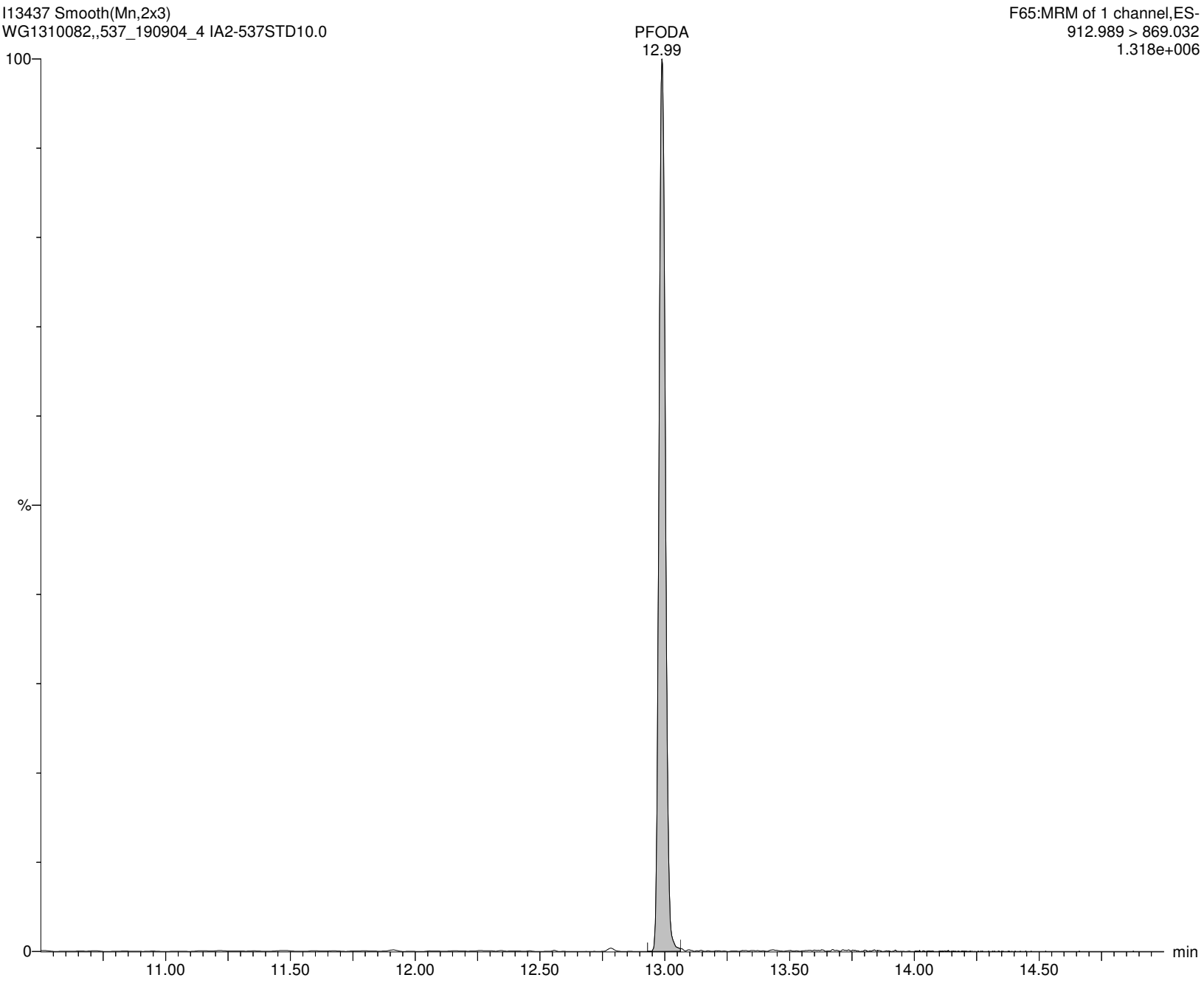

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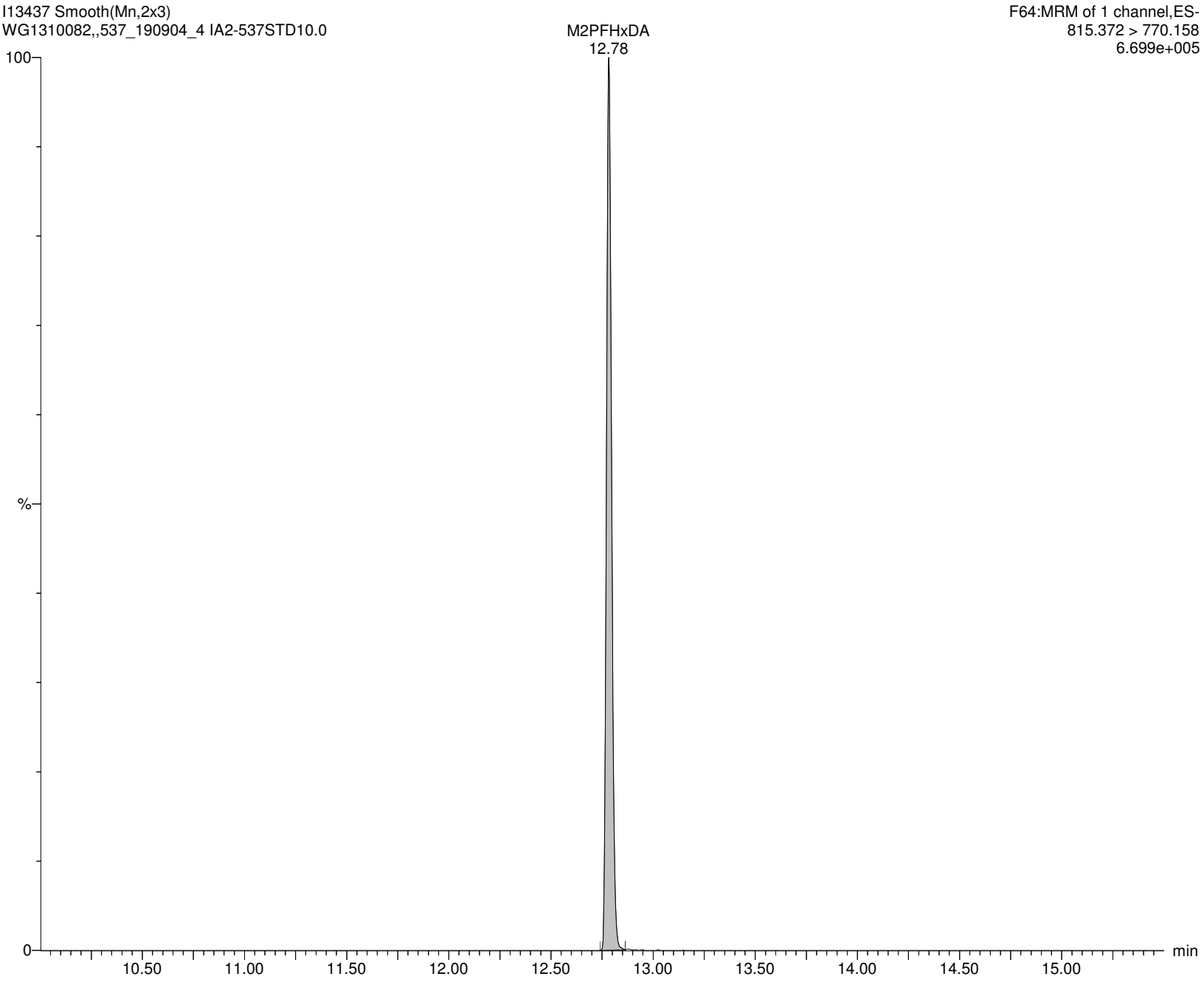

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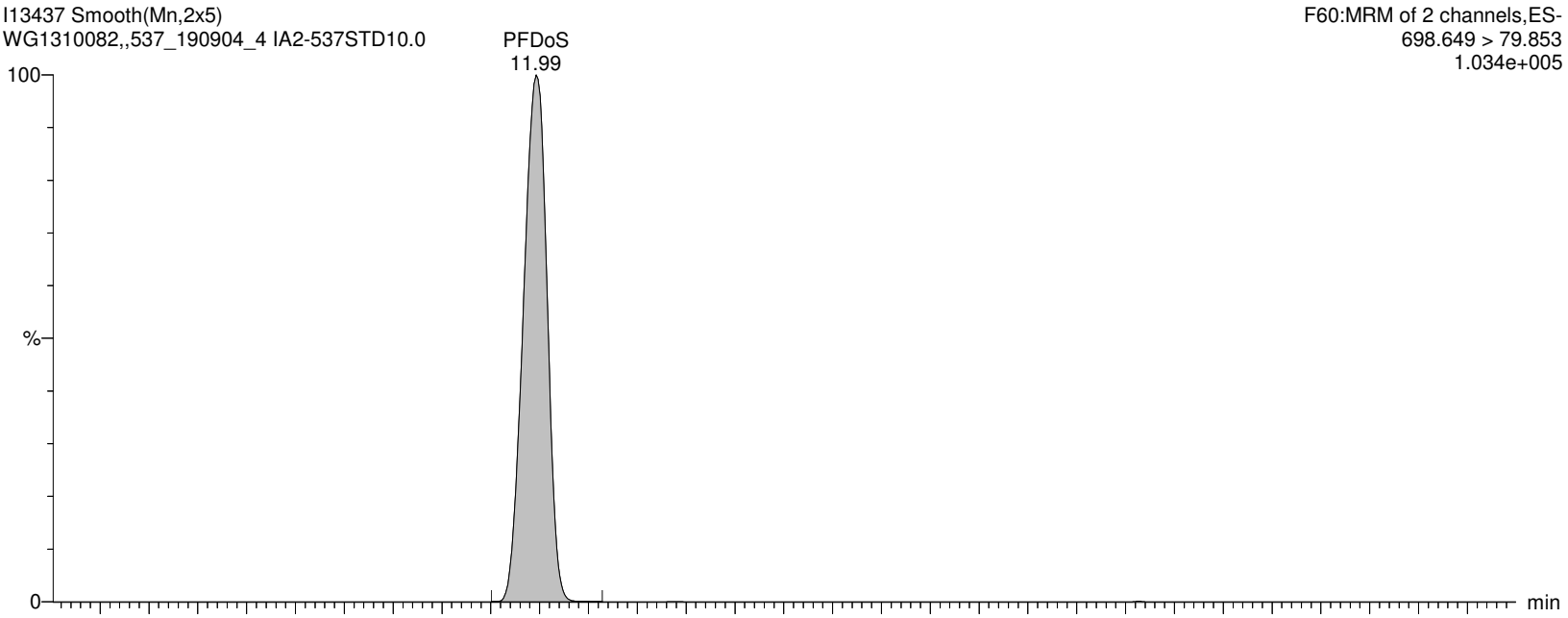

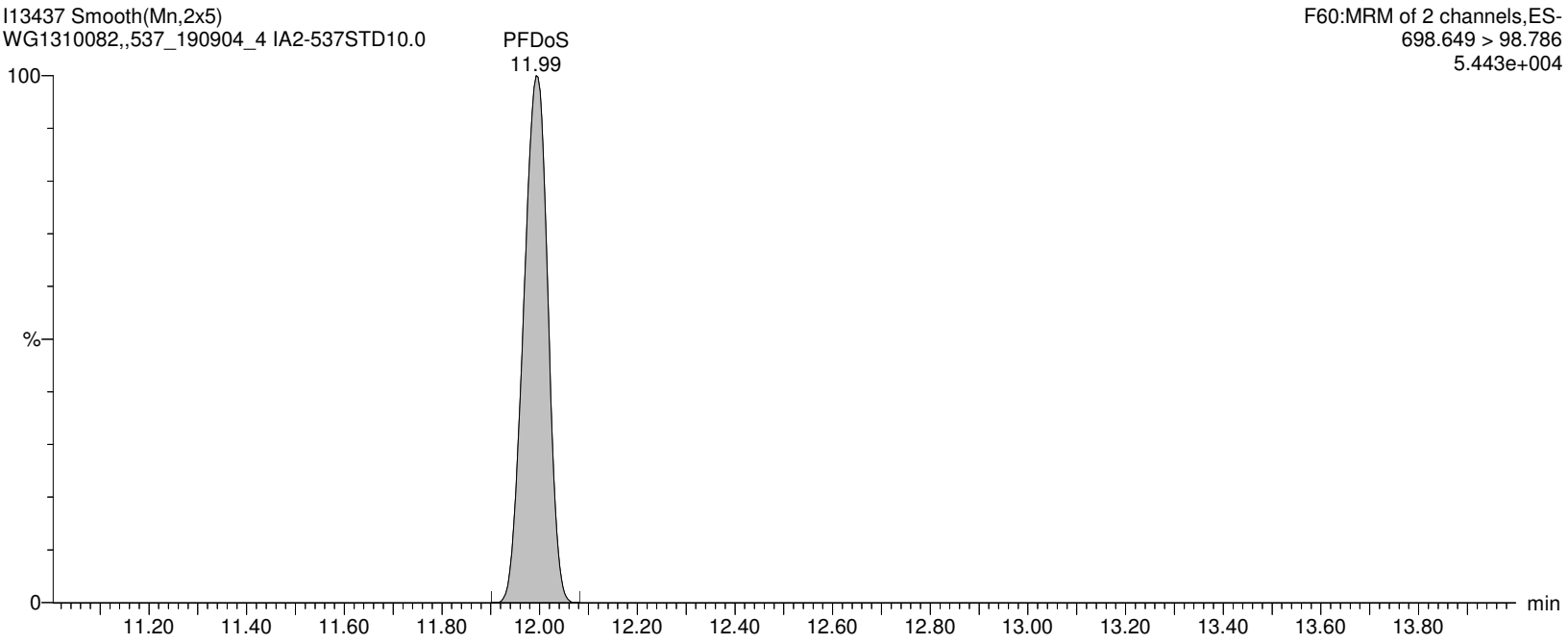

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:55 Eastern Standard Time

Name: I13437
ID: IA2-537STD10.0
Date: 18-Nov-2019
Time: 11:26:51
Description: WG1310082,,537_190904_4
User: LCMS02:JW
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEB0050
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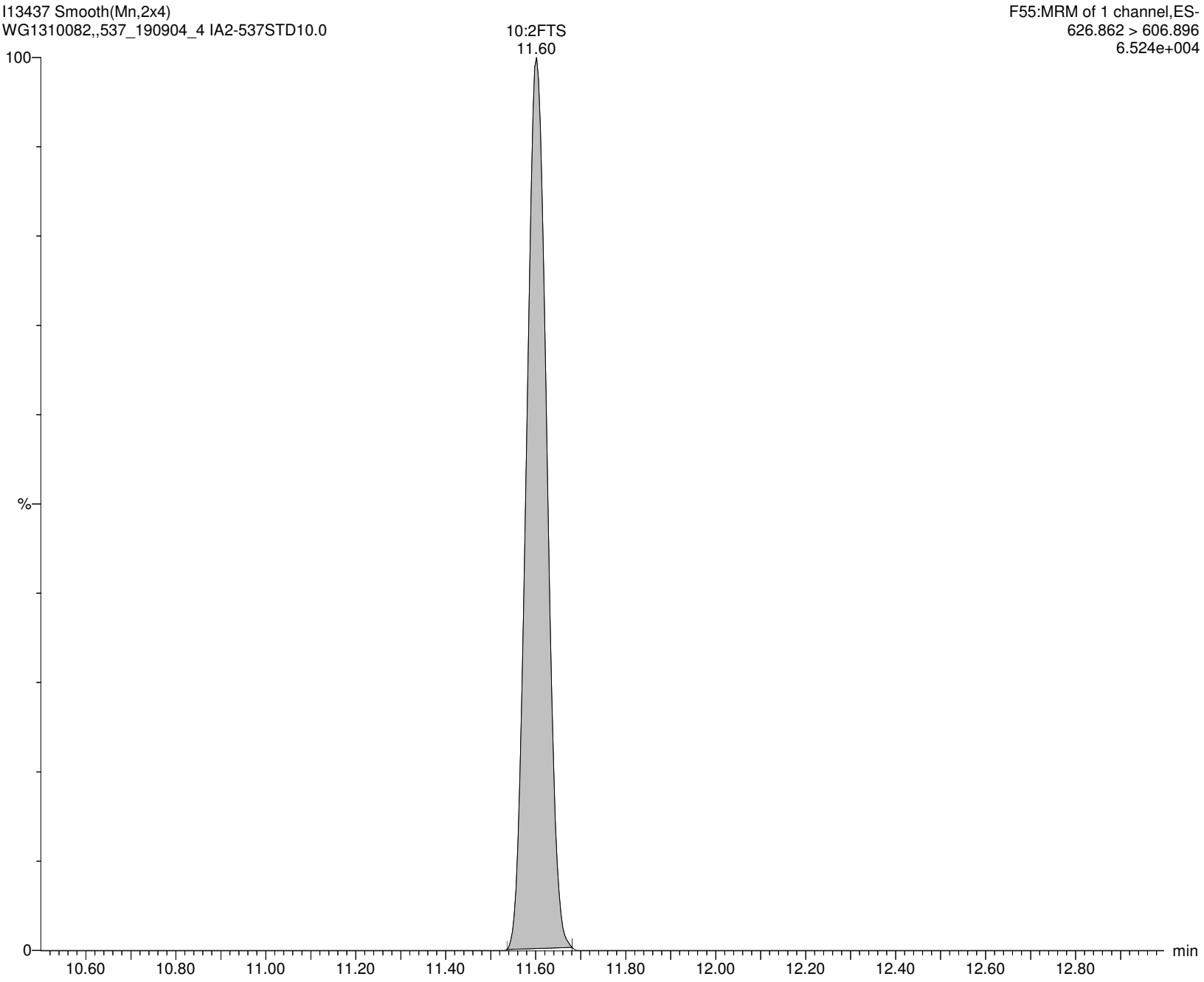

all concentration units in (ng/mL)

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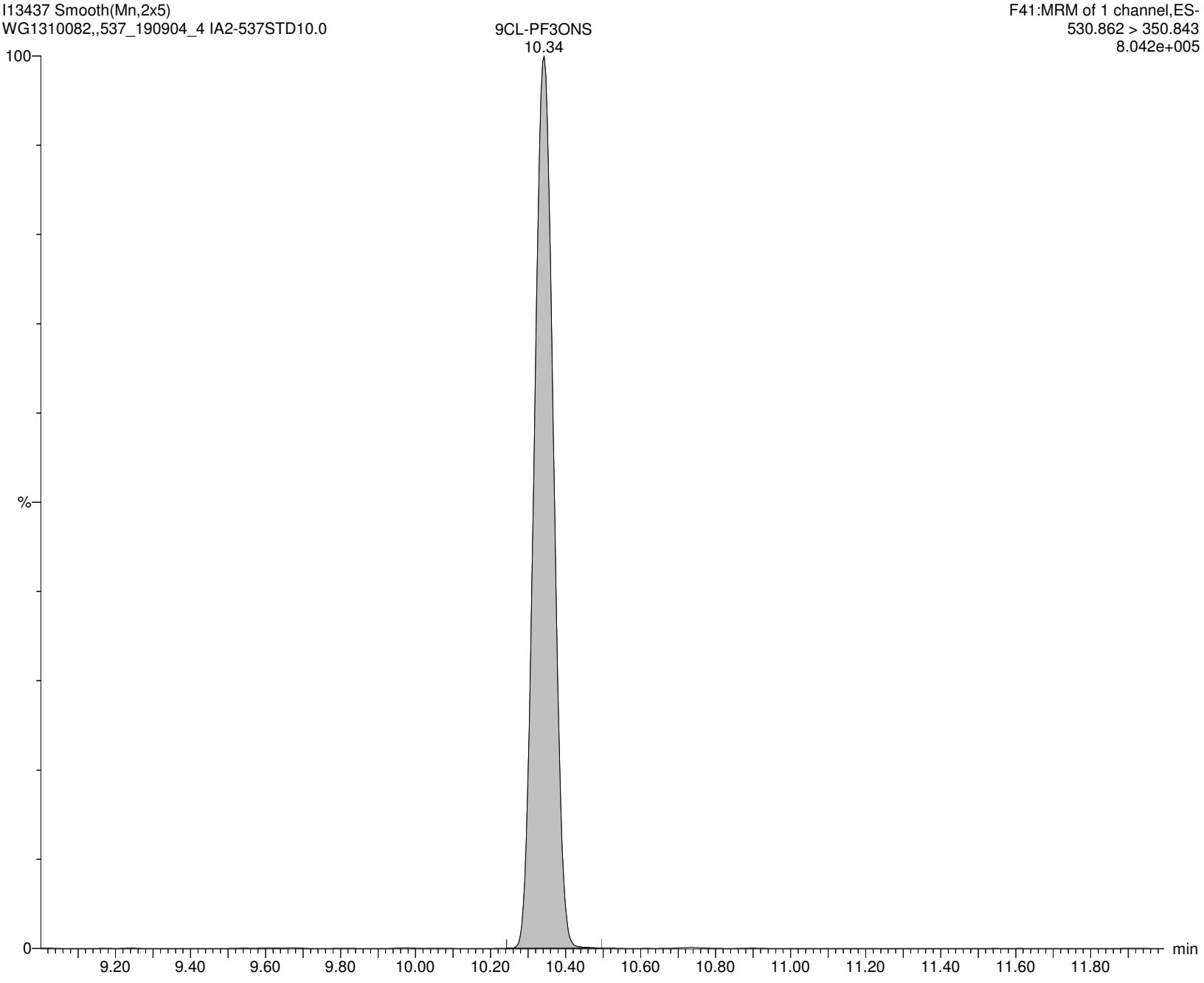

all concentration units in (ng/mL)

Alpha Analytical Inc.
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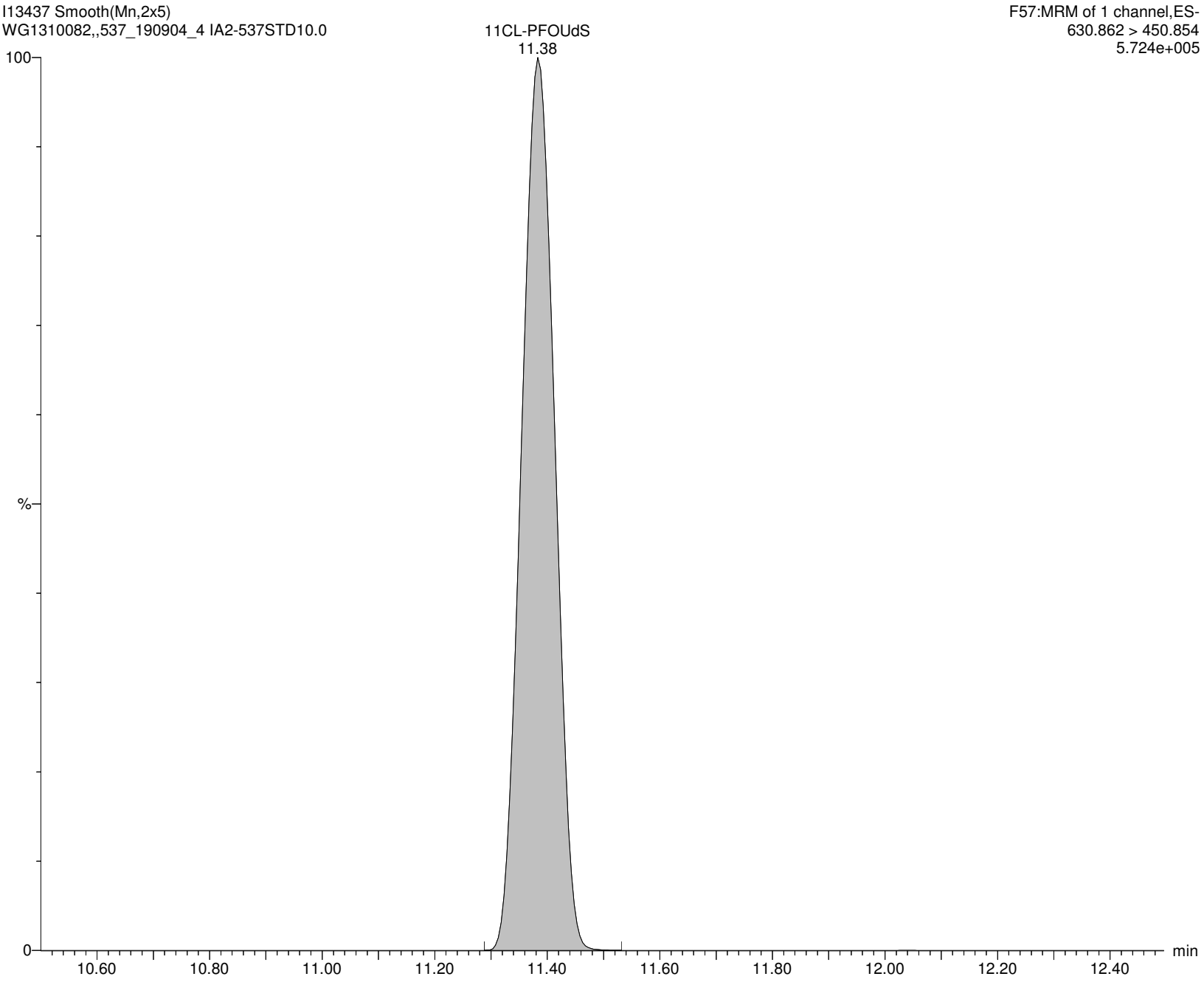
11CL-PFOUdS



all concentration units in (ng/mL)

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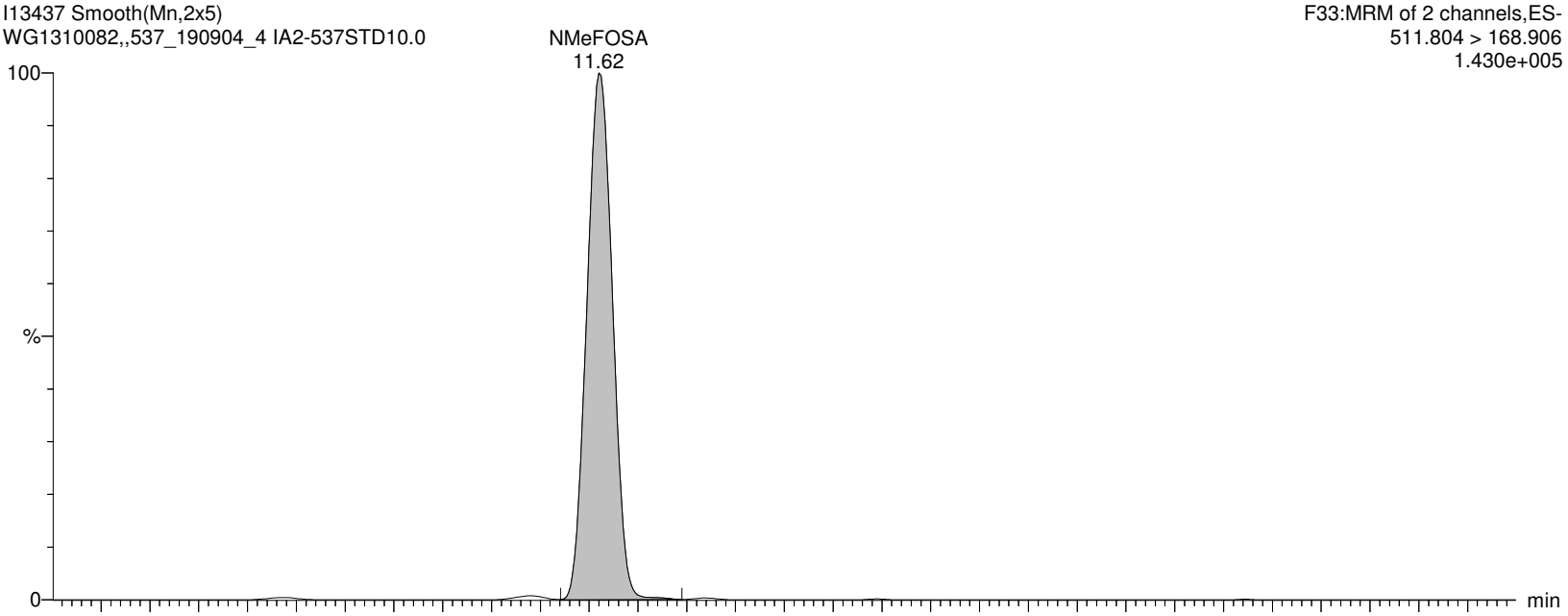

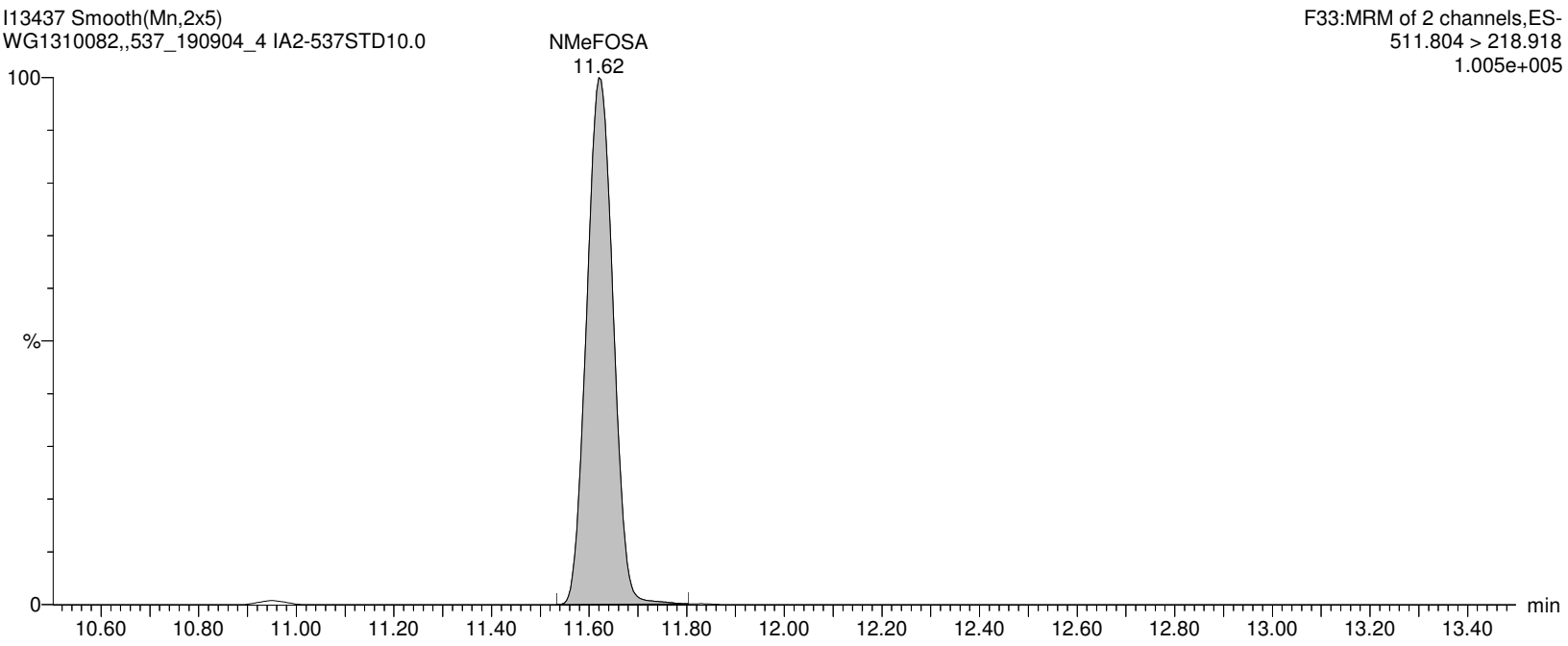

all concentration units in (ng/mL)

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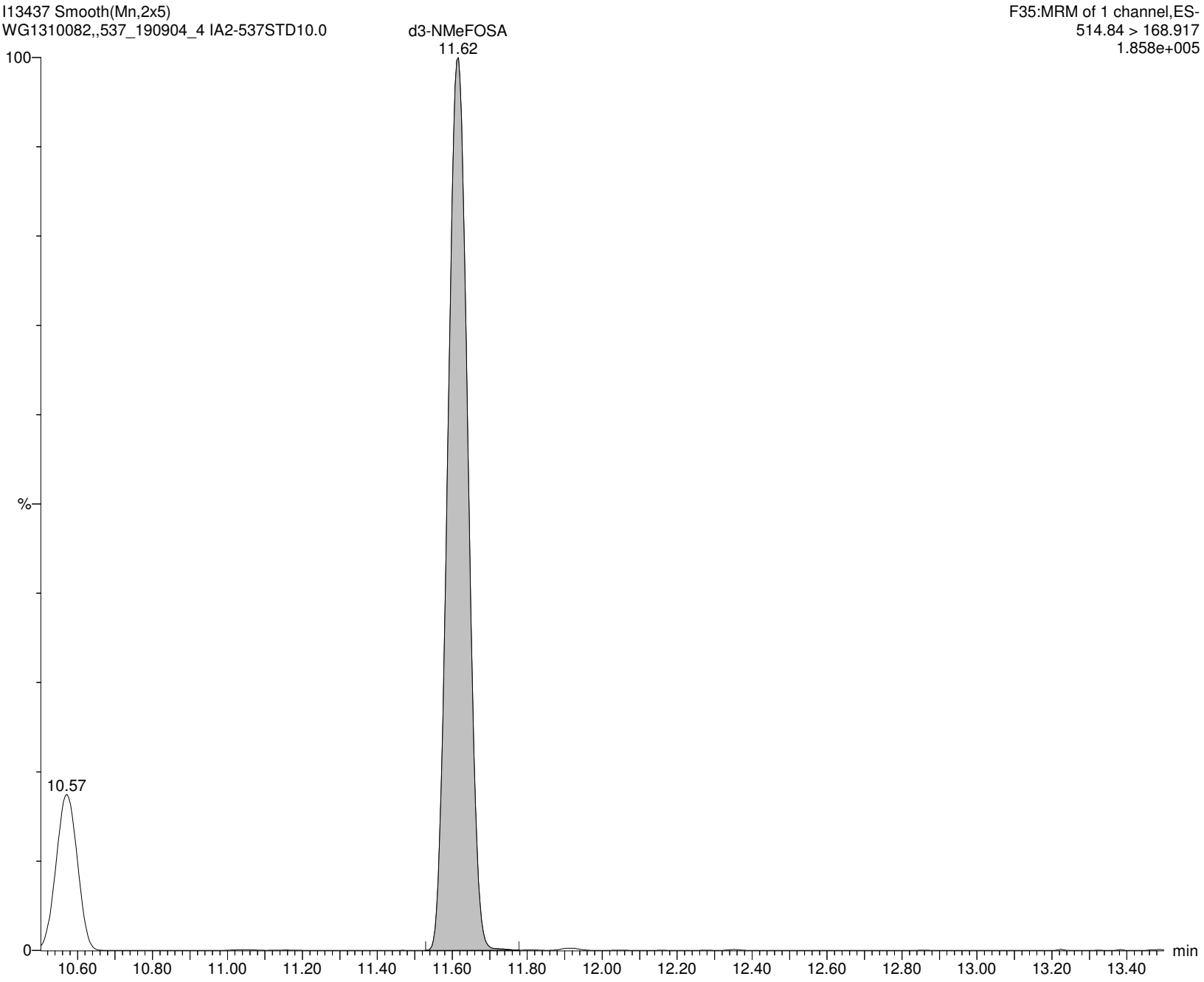

all concentration units in (ng/mL)

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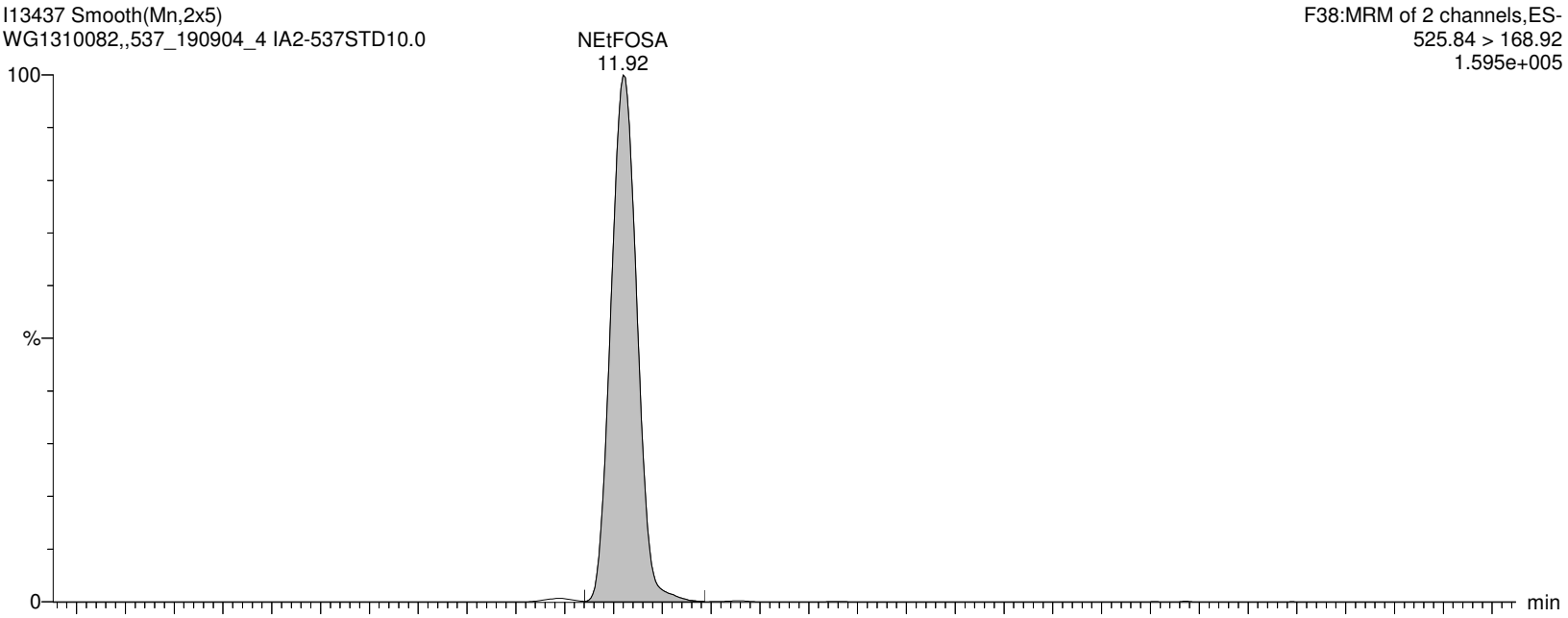

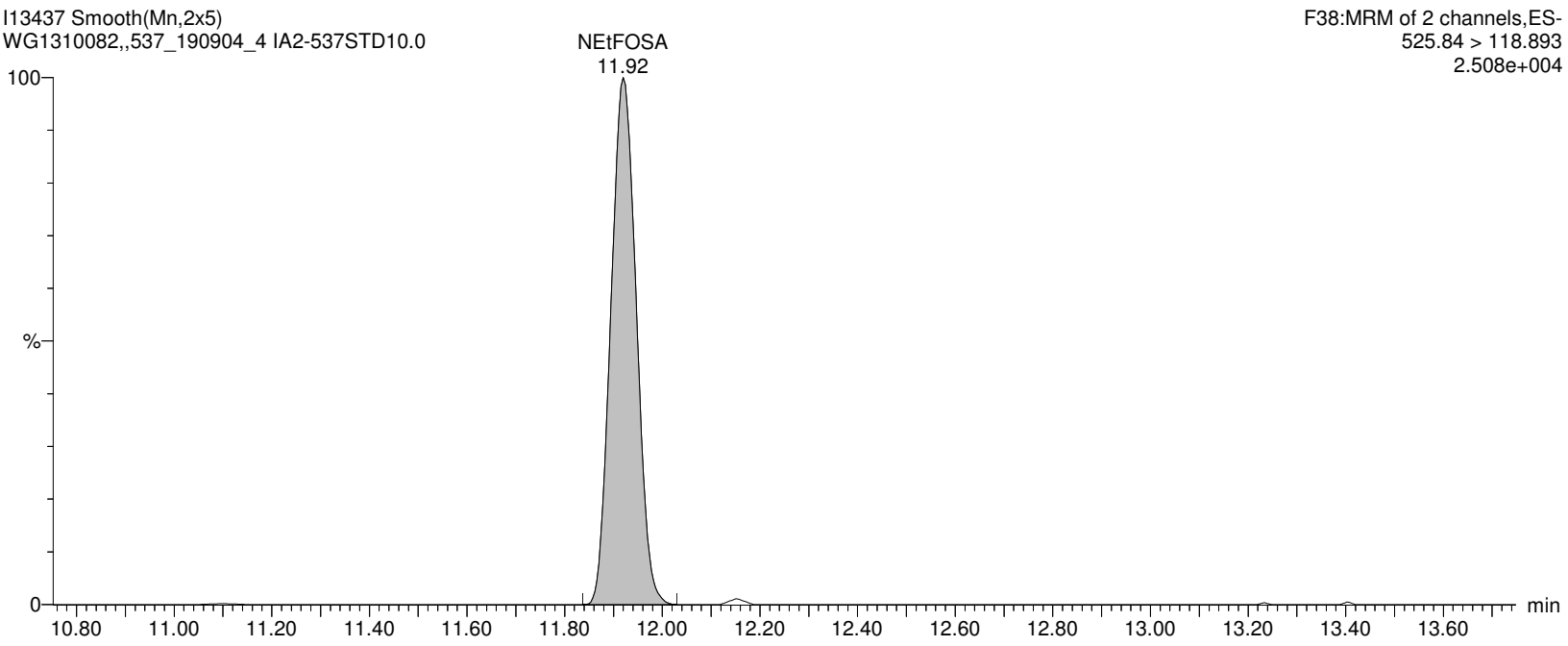

all concentration units in (ng/mL)

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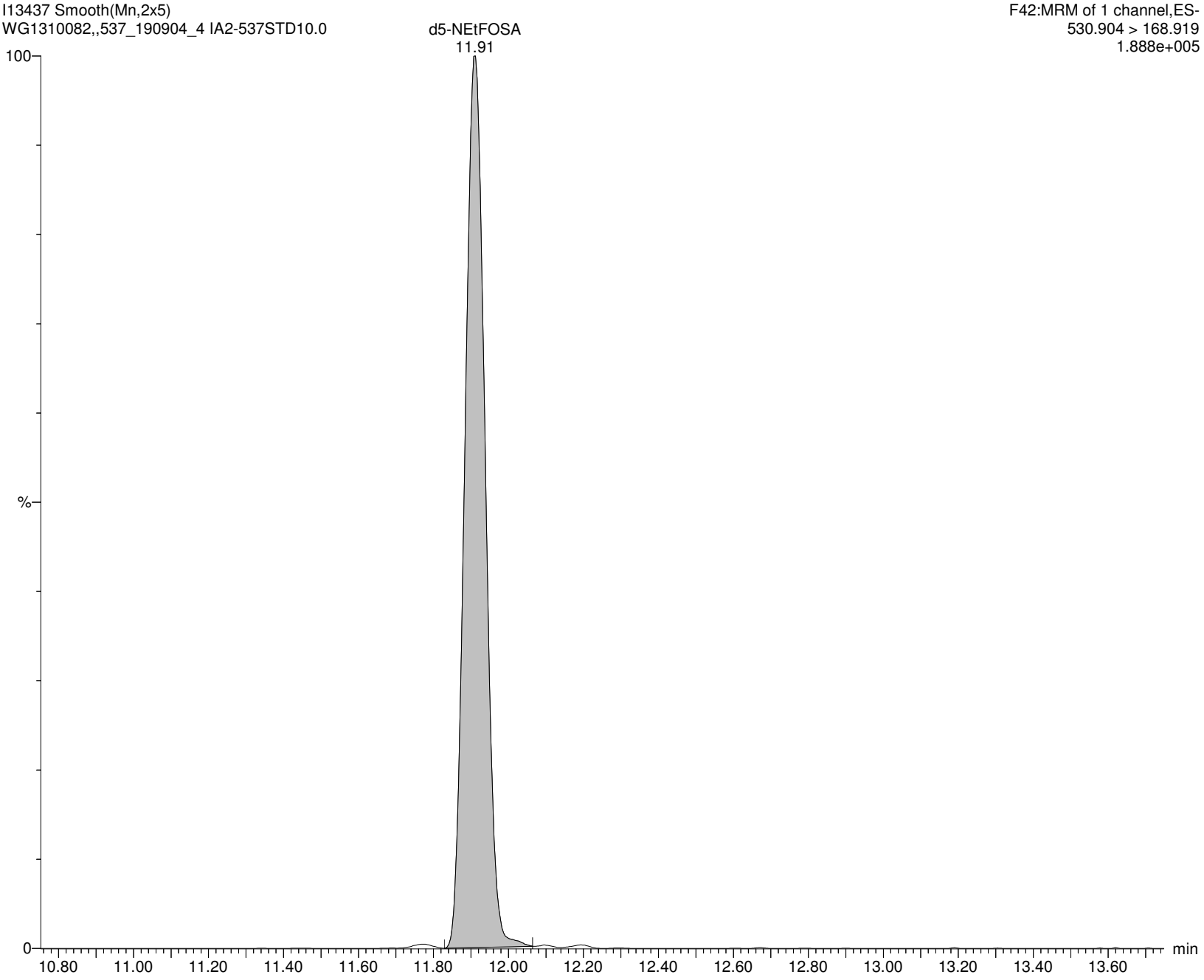

all concentration units in (ng/mL)

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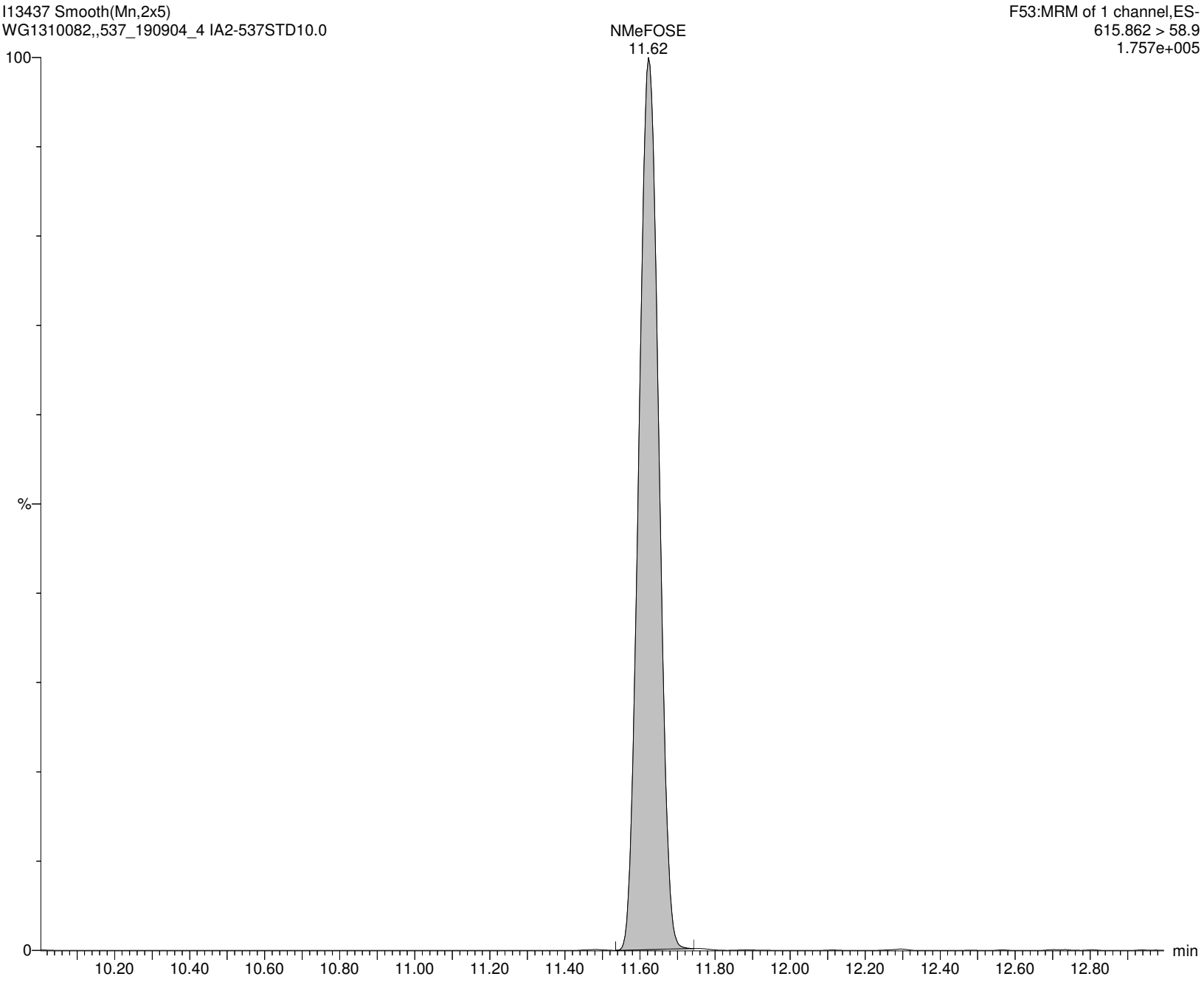

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Name: I13437
ID: IA2-537STD10.0
Date: 18-Nov-2019
Time: 11:26:51
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Vial: 1:A,5
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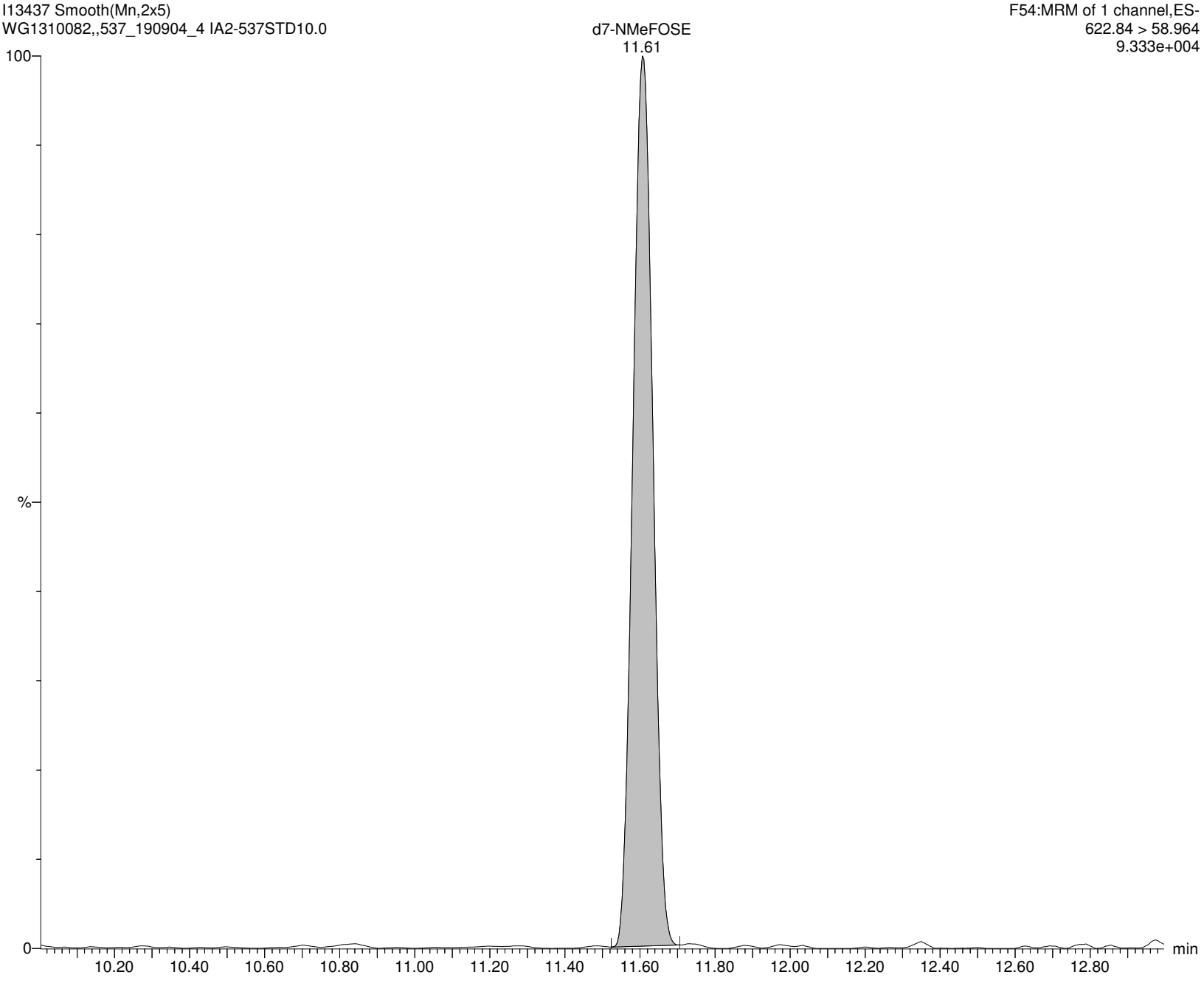

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Name: I13437
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Time: 11:26:51
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User: LCMS02:JW
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Instrument: XEVO-TQSmicro#QEB0050
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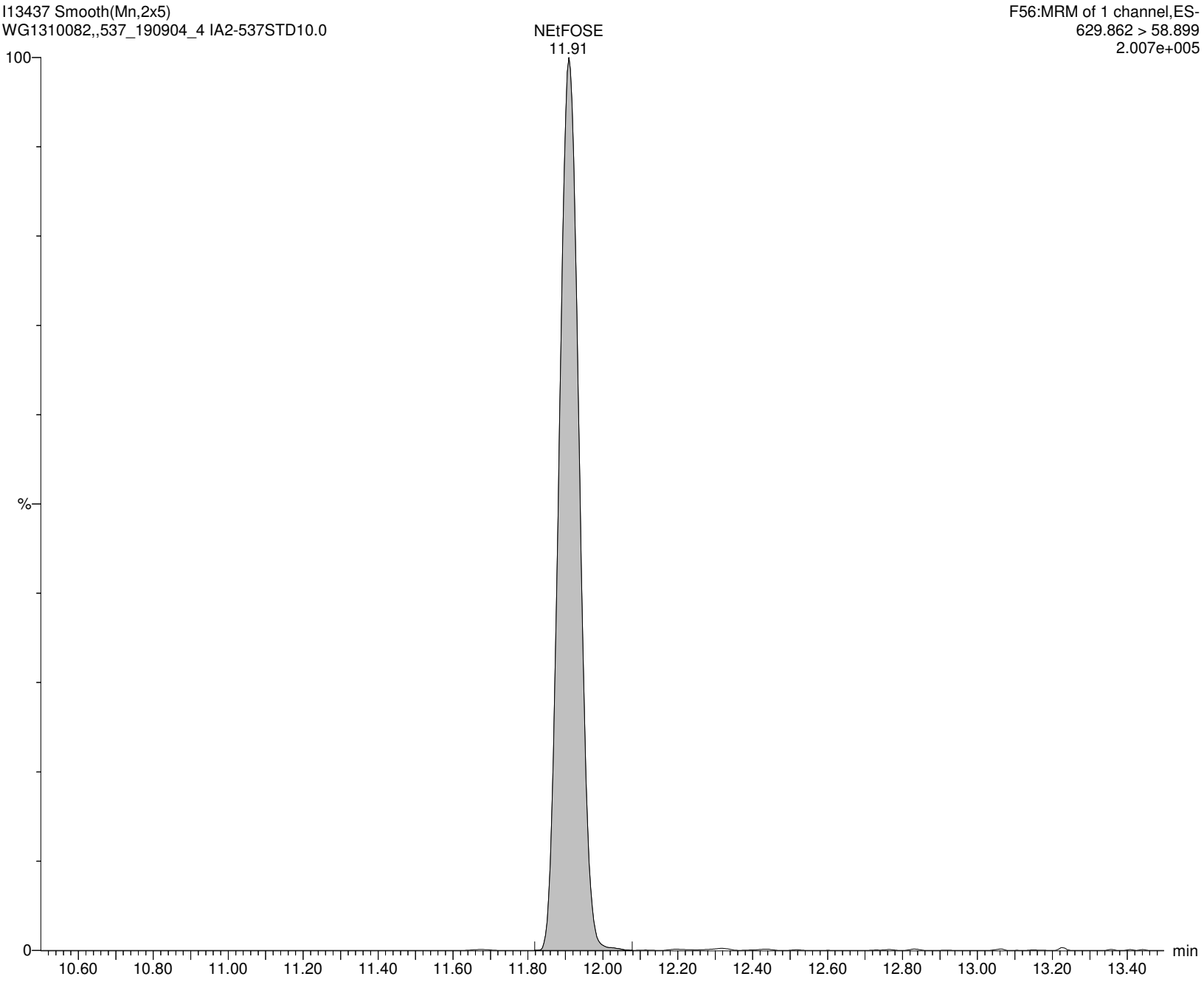
NEtFOSE



all concentration units in (ng/mL)

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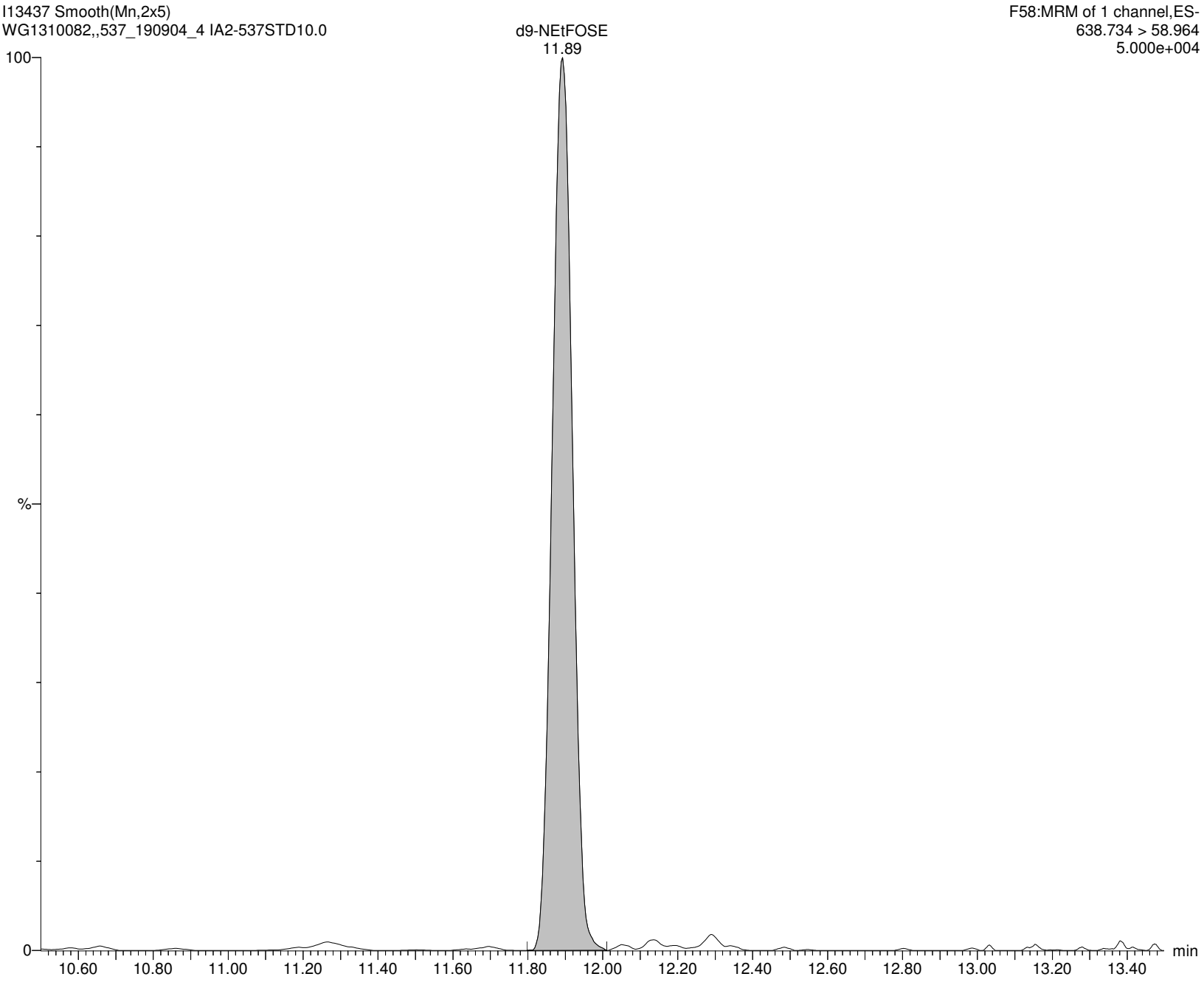

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:56 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD50.0
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Date: 18-Nov-2019
Time: 11:43:24
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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	211671		49.930		na	99.9
2	M3PFBA	INT STD	2.19	215.926 > 172.122	46738		10.087		na	100.9
3	MPFBA	INT STD	2.19	216.926 > 172.137	50772		9.982		na	99.8
4	PFPeA	2706-90-3	5.10	262.926 > 219.002	350630		50.254		na	100.5
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	72242		10.014		na	100.1
6	PFBS	375-73-5	5.74	298.926 > 79.923	64765		44.235	1.89	NO	100.0
7	M3PFBS	INT STD	5.75	301.989 > 80.254	9966		10.041		na	100.4
8	4:2FTS	757124-72-4	6.92	326.926 > 306.957	29144		45.413	2.16	NO	97.1
9	M2-4:2FTS	INT STD	6.91	329.117 > 309.079	6682		10.370		na	103.7
10	PFHxA	307-24-4	6.99	312.989 > 269.028	385144		50.500	18.41	NO	101.0
11	M5PFHxA	INT STD	6.99	317.989 > 273.045	82848		10.082		na	100.8
12	PFPeS	2706-91-4	7.31	348.926 > 80.251	44566		46.448	1.79	NO	98.8
13	PFHpA	375-85-9	8.26	362.926 > 319.014	506167		51.681	5.83	NO	103.4
14	M4PFHpA	INT STD	8.26	366.926 > 321.979	108577		9.920		na	99.2
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	5932	M5	8.333	2.23	NO	98.0
16	L-PFHxS	355-46-4	8.42	398.926 > 80.295	26815		37.313	1.13	NO	100.8
17	PFHxS	355-46-4		398.926 > 80.295	32747		45.646		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	5737		10.015		na	100.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.20	412.989 > 368.9	491336		50.111	9.97	NO	100.2
21	PFOA	335-67-1		412.989 > 368.9	491336		50.111		na	
22	M8PFOA	INT STD	9.20	420.989 > 375.979	106782		10.166		na	101.7
23	M2PFOA	INT STD	9.20	415.032 > 369.968	107343		10.154		na	101.5
24	6:2FTS	27619-97-2	9.16	426.989 > 406.921	22888		45.588	10.94	NO	96.0
25	M2-6:2FTS	INT STD	9.16	428.989 > 408.917	6924		10.995		na	109.9
26	PFHpS	375-92-8	9.29	448.926 > 80.257	24824		49.296	0.86	YES	103.8
27	PFNA	375-95-1	9.95	462.989 > 418.931	434642		50.925	4.52	NO	101.8
28	M9PFNA	INT STD	9.95	472.053 > 426.947	104183		10.081		na	100.8
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	9375	M5	9.110	4.54	NO	91.1
30	L-PFOS	1763-23-1	10.00	498.989 > 80.294	27678		36.880	1.51	YES	101.0
31	PFOS	1763-23-1		498.989 > 80.294	37053		45.990		na	
32	M4PFOS	INT STD	10.00	503.032 > 80.306	7090		10.152		na	101.5
33	M8PFOS	INT STD	10.00	507.053 > 80.294	7647		10.511		na	105.1
34	PFDA	335-76-2	10.58	513.053 > 468.906	409067		51.371	6.93	NO	102.7
35	M2PFDA	INT STD	10.58	515.053 > 469.934	89580		10.146		na	101.5
36	M6PFDA	INT STD	10.58	519.053 > 473.931	92827		10.027		na	100.3
37	8:2FTS	39108-34-4	10.57	526.926 > 506.818	17680		44.549		na	92.8
38	M2-8:2FTS	INT STD	10.57	529.053 > 508.945	4282		11.592		na	115.9
39	PFNS	68259-12-1	10.61	548.989 > 80.249	34941		49.120	1.23	NO	102.3

all concentration units in (ng/mL)

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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.96	573.096 > 418.987	10035		9.518		na	95.2
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	51048		54.582	2.68	NO	109.2
43	NMeFOSAA	2355-31-9		570.053 > 418.917	51048		54.582		na	
44	PFUnA	2058-94-8	11.12	562.989 > 518.903	396063		49.990	7.94	NO	100.0
45	M7-PFUDA	INT STD	11.12	570.053 > 524.923	82849		10.087		na	100.9
46	PFDS	335-77-3	11.13	598.926 > 80.314	25123		49.411	1.00	NO	102.4
47	FOSA	754-91-6	11.01	497.989 > 78.245	116432		51.200	129.12	NO	102.4
48	M8FOSA	INT STD	11.01	506.053 > 78.286	21401		9.777		na	97.8
49	d5-NEtFOSAA	INT STD	11.25	589.117 > 418.929	7892		8.474		na	84.7
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.26	583.989 > 418.927	44566		59.815	2.59	NO	119.6
52	NEtFOSAA	2991-50-6		583.989 > 418.927	44566		59.815		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	409028		50.488	14.39	NO	101.0
54	MPFDOA	INT STD	11.59	614.989 > 569.92	95651		10.381		na	103.8
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	320248		50.655	11.40	NO	101.3
56	PFTA	376-06-7	12.36	713.053 > 668.976	294391		49.694	9.09	NO	99.4
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	73975		10.107		na	101.1
58	M3HFPO-DA	INT STD	7.42	331.989 > 286.995	8243		179.113		na	89.6
59	HFPO-DA	13252-13-6	7.42	284.819 > 169.094	69989		1022.673	2.72	YES	102.3
60	ADONA	958445-44-8	8.44	376.926 > 251.005	687811		48.997		na	103.6
61	PFHxDA		12.78	813.053 > 769.005	269633		49.164		na	98.3
62	PFODA		12.98	912.989 > 869.032	185708		46.110		na	92.2
63	M2PFHxDA		12.78	815.372 > 770.158	15306		9.825		na	98.2
64	PFDoS		12.00	698.649 > 79.853	28014		54.048	1.99	YES	108.1
65	10:2FTS		11.61	626.862 > 606.896	18204		46.805		na	97.1
66	9CL-PF3ONS		10.35	530.862 > 350.843	237445		47.245		na	101.4
67	11CL-PFOUdS		11.39	630.862 > 450.854	200296		47.274		na	100.4
68	NMeFOSA		11.62	511.804 > 168.906	45477		52.480	1.49	NO	105.0
69	d3-NMeFOSA		11.62	514.84 > 168.917	11659		10.213		na	102.1
70	NEtFOSA		11.92	525.84 > 168.92	49117		52.606	6.00	NO	105.2
71	d5-NEtFOSA		11.91	530.904 > 168.919	10656		9.543		na	95.4
72	NMeFOSE		11.63	615.862 > 58.9	54087		49.204		na	98.4
73	d7-NMeFOSE		11.61	622.84 > 58.964	5434		10.163		na	101.6
74	NEtFOSE		11.91	629.862 > 58.899	65148		59.318		na	118.6
75	d9-NEtFOSE		11.89	638.734 > 58.964	2782		8.900		na	89.0

all concentration units in (ng/mL)

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Printed: Monday, November 18, 2019 13:42:56 Eastern Standard Time

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Date: 18-Nov-2019
Time: 11:43:24
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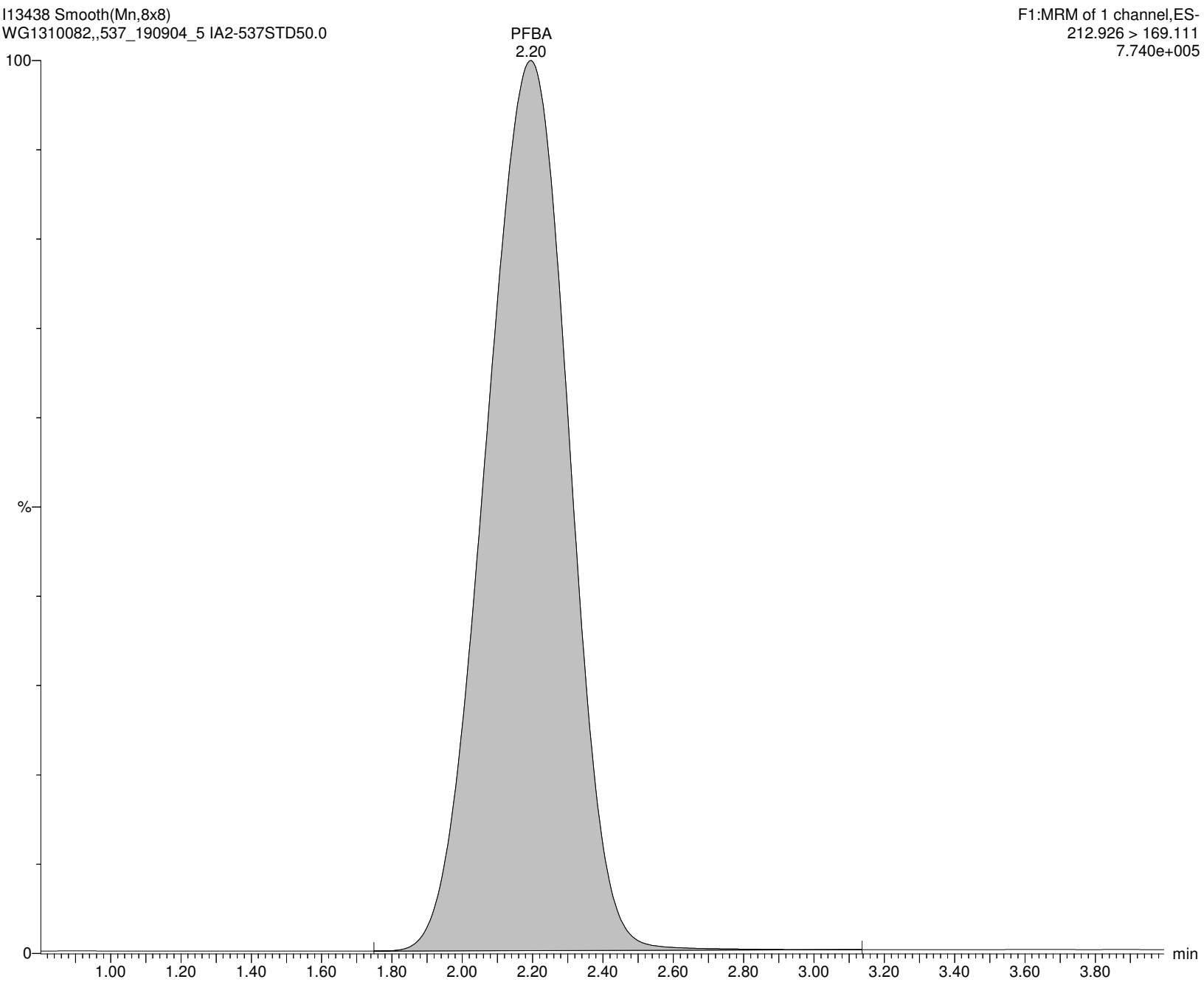

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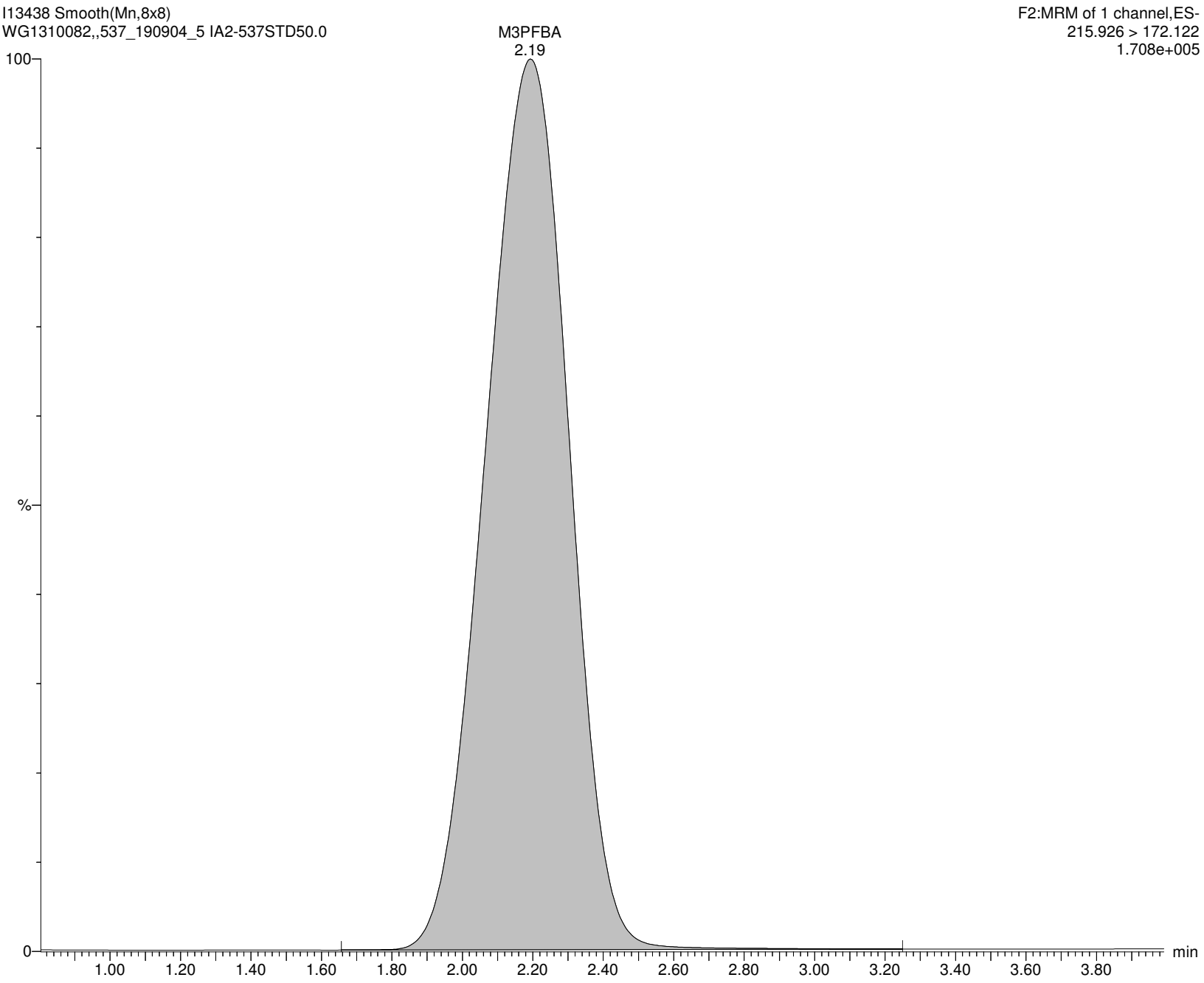

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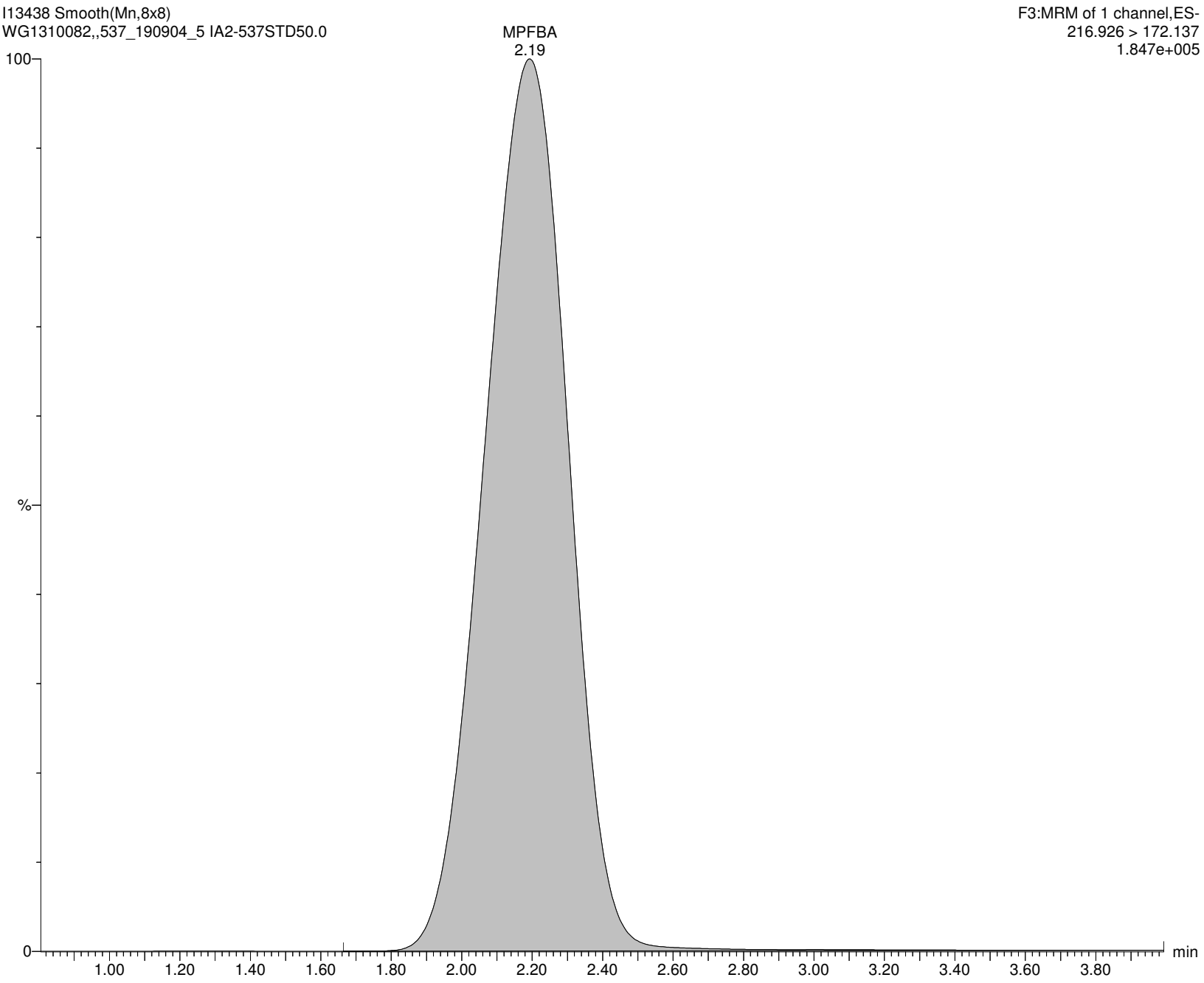

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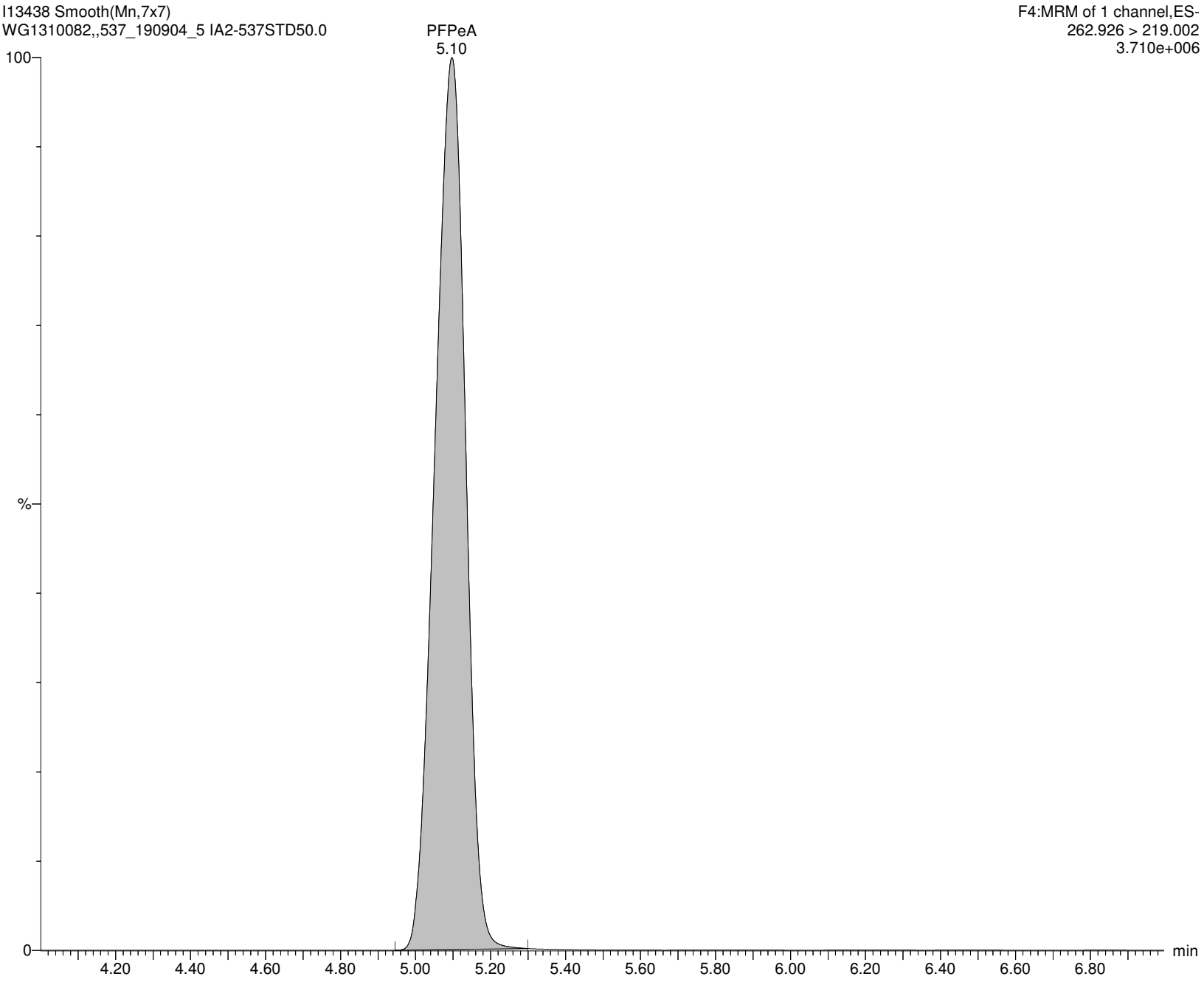

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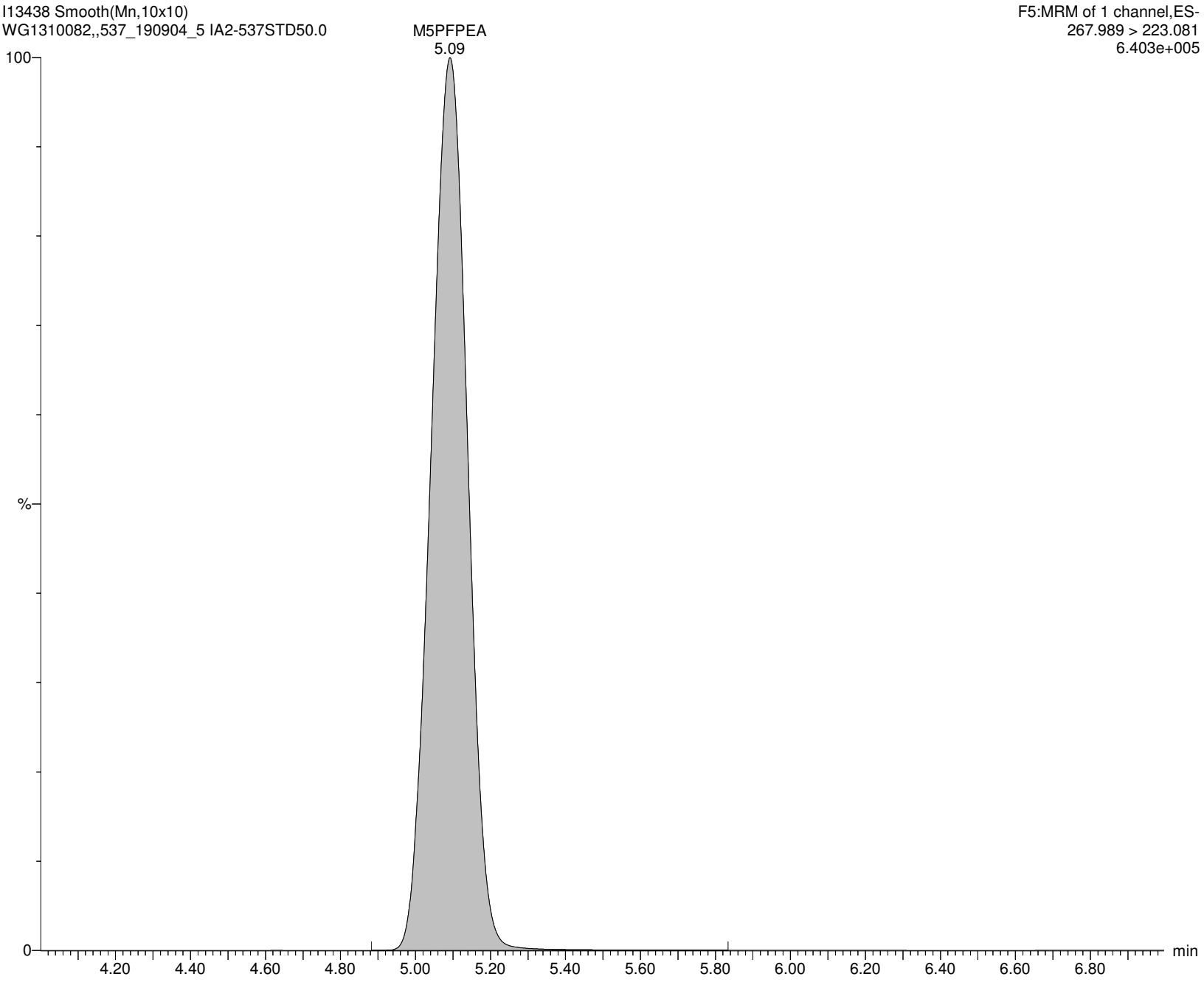

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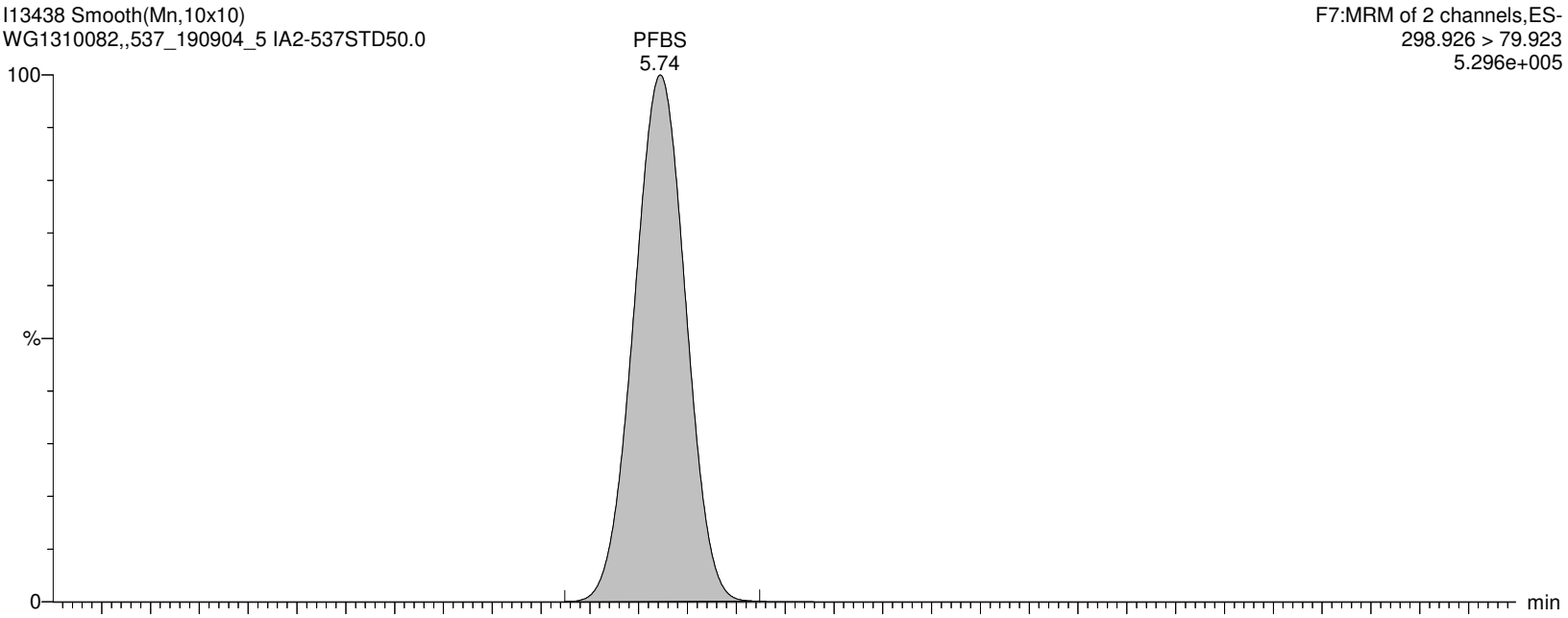

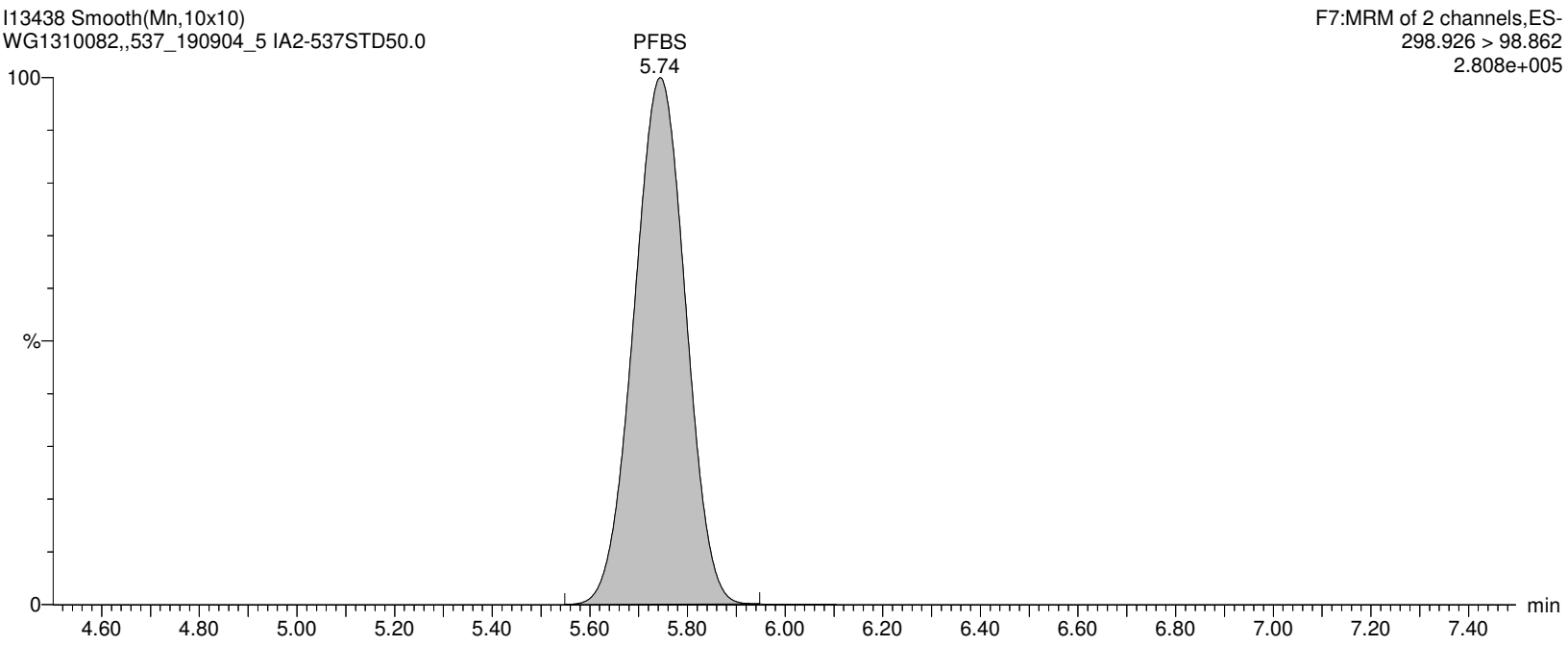

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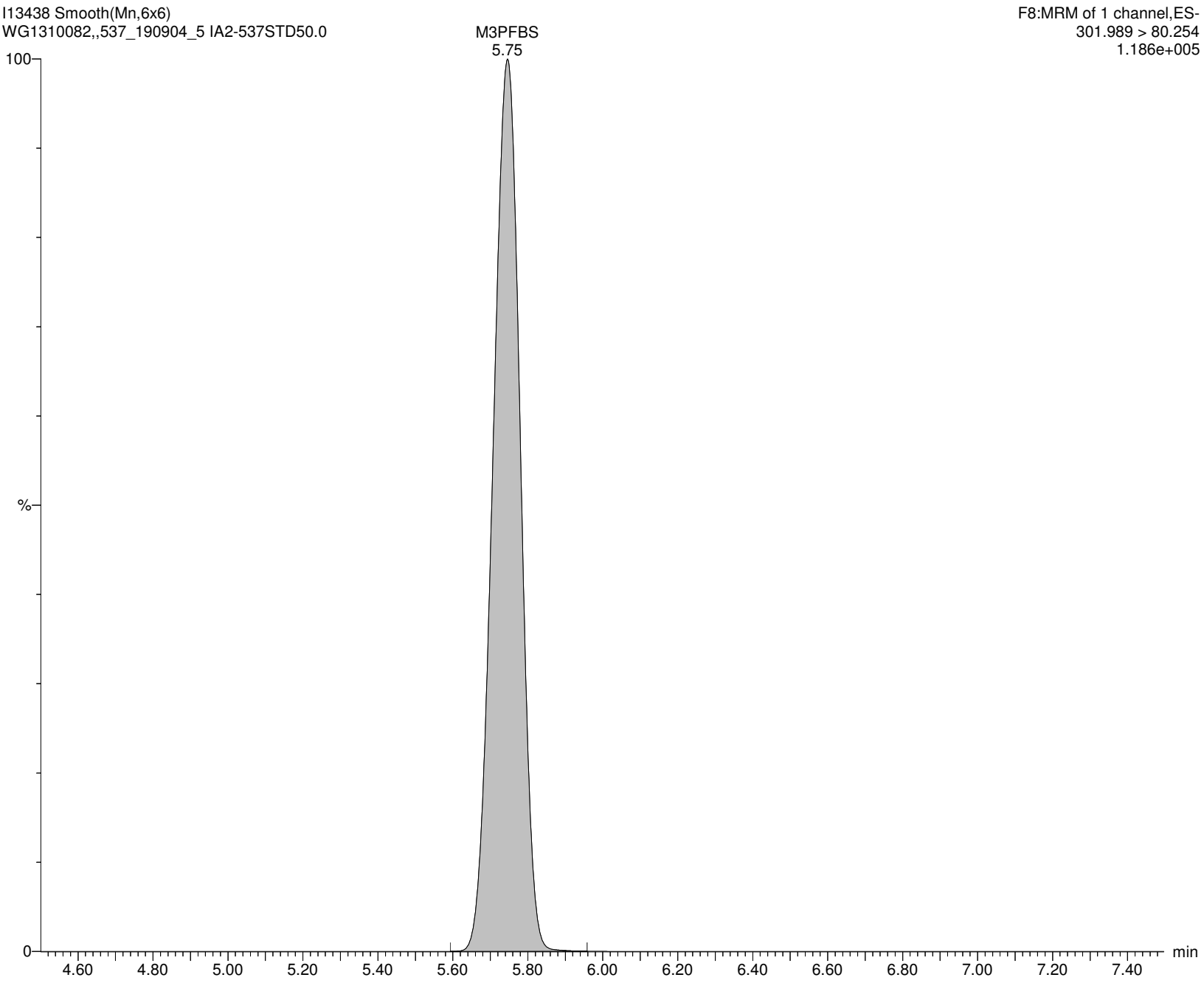

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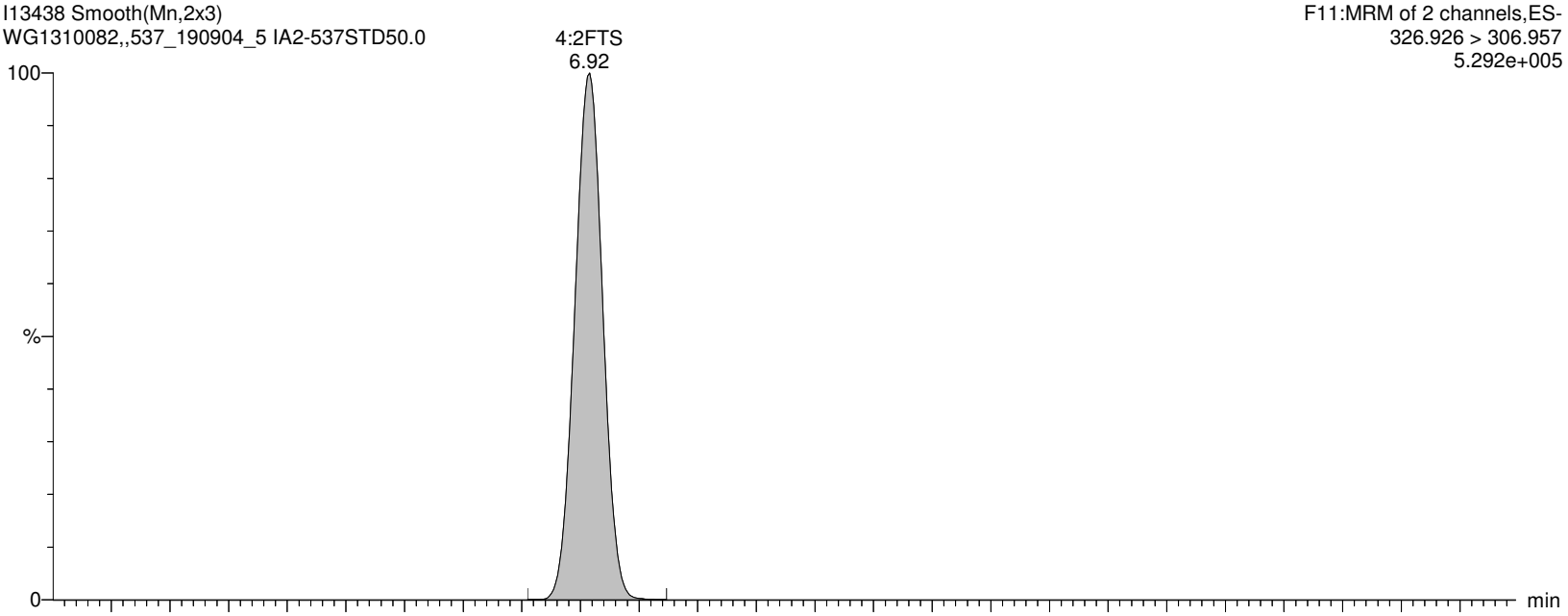

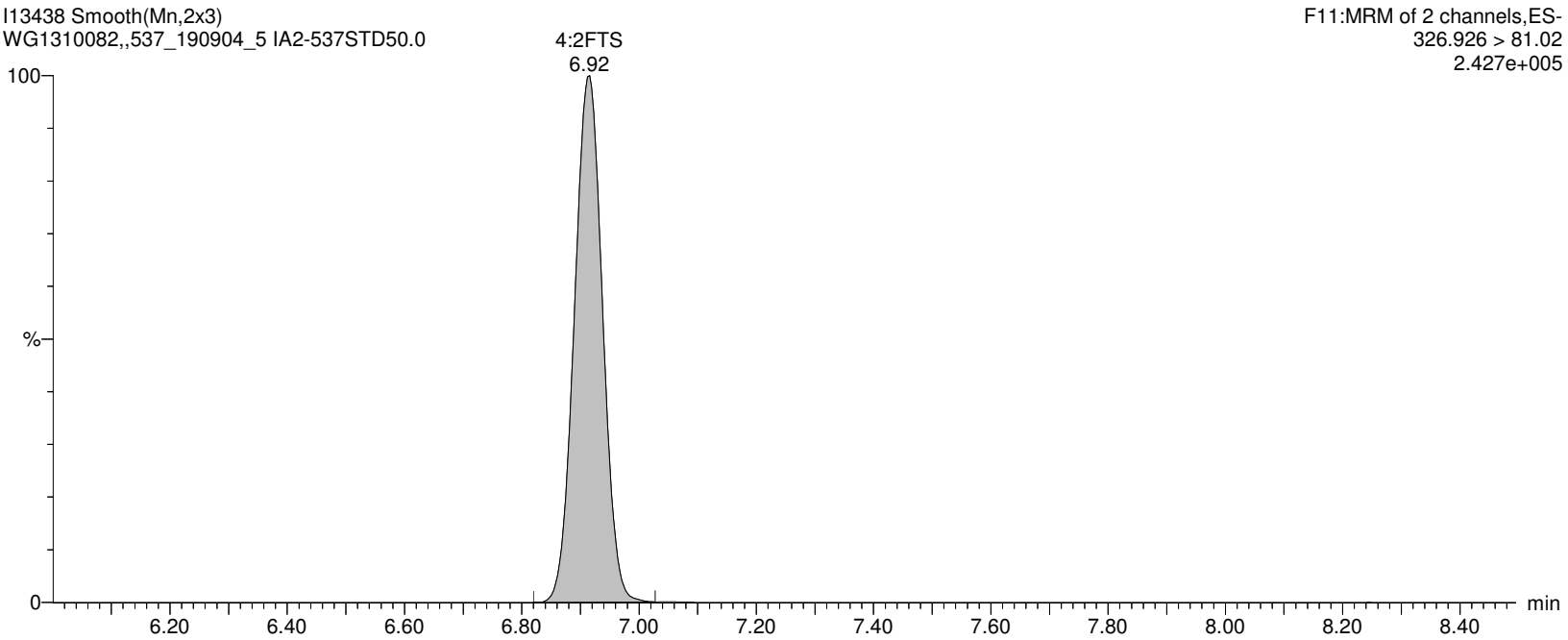

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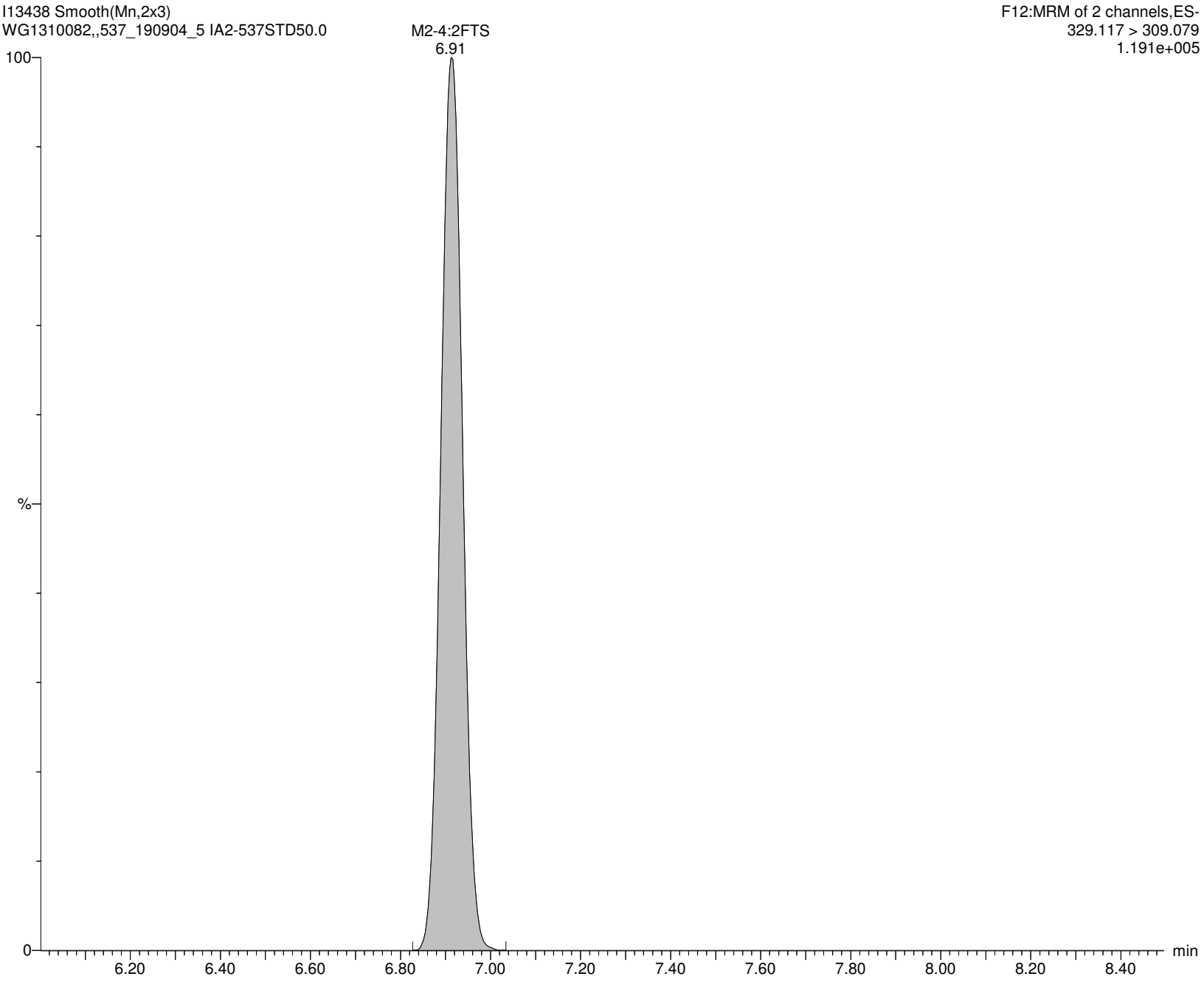

all concentration units in (ng/mL)

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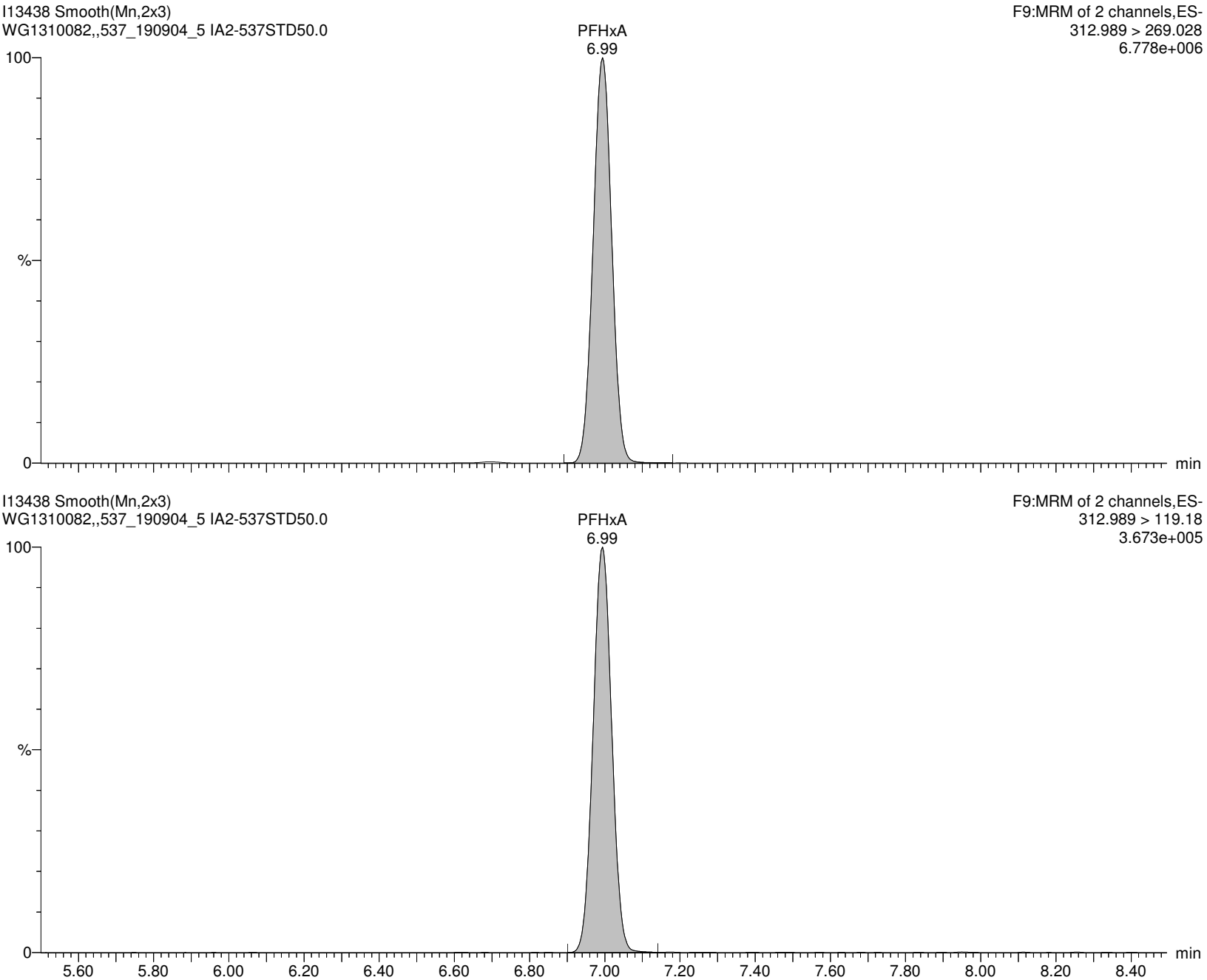

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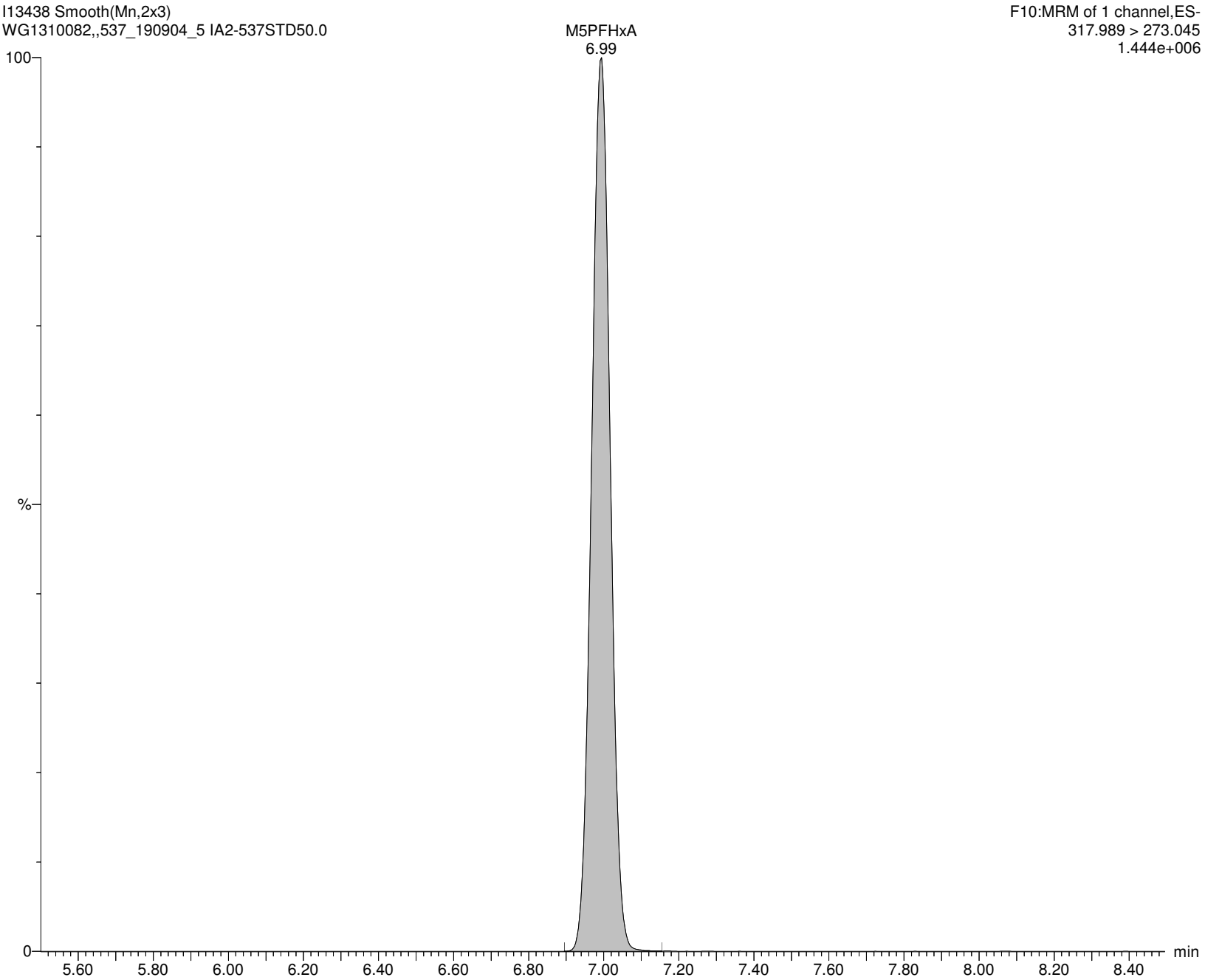

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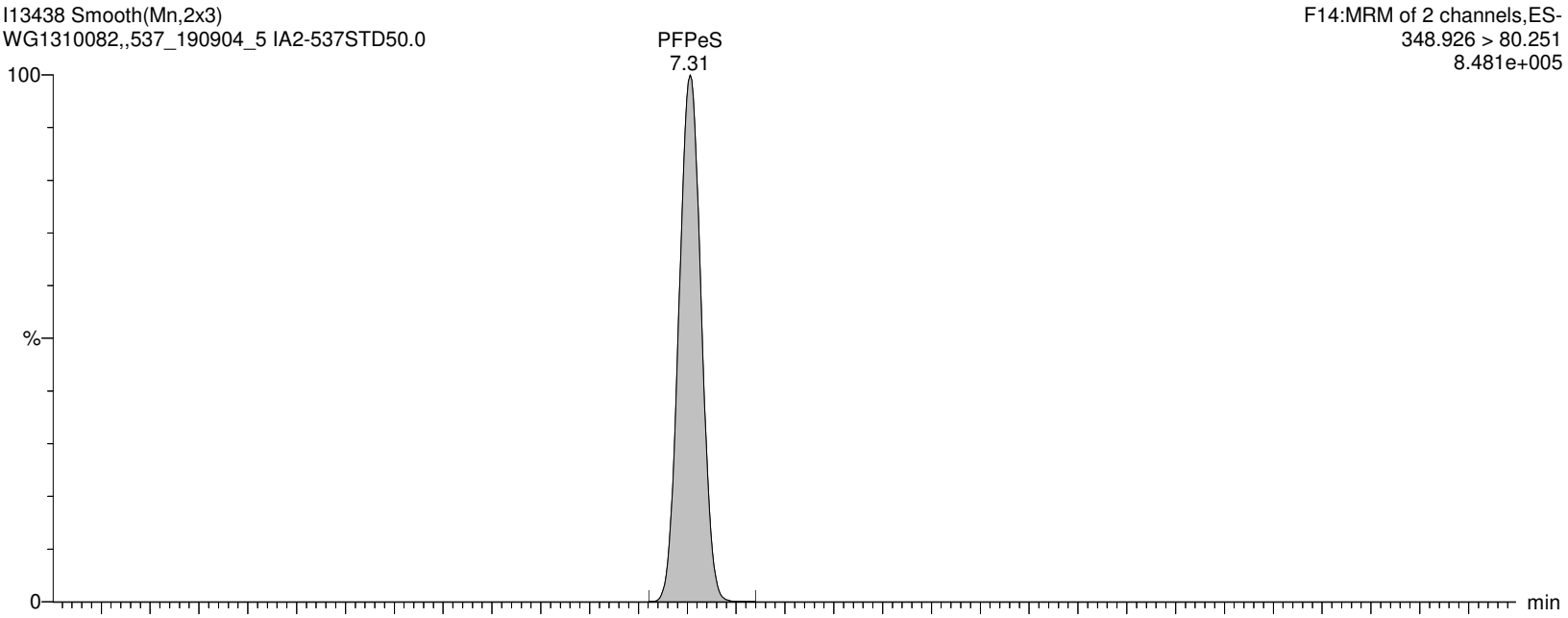

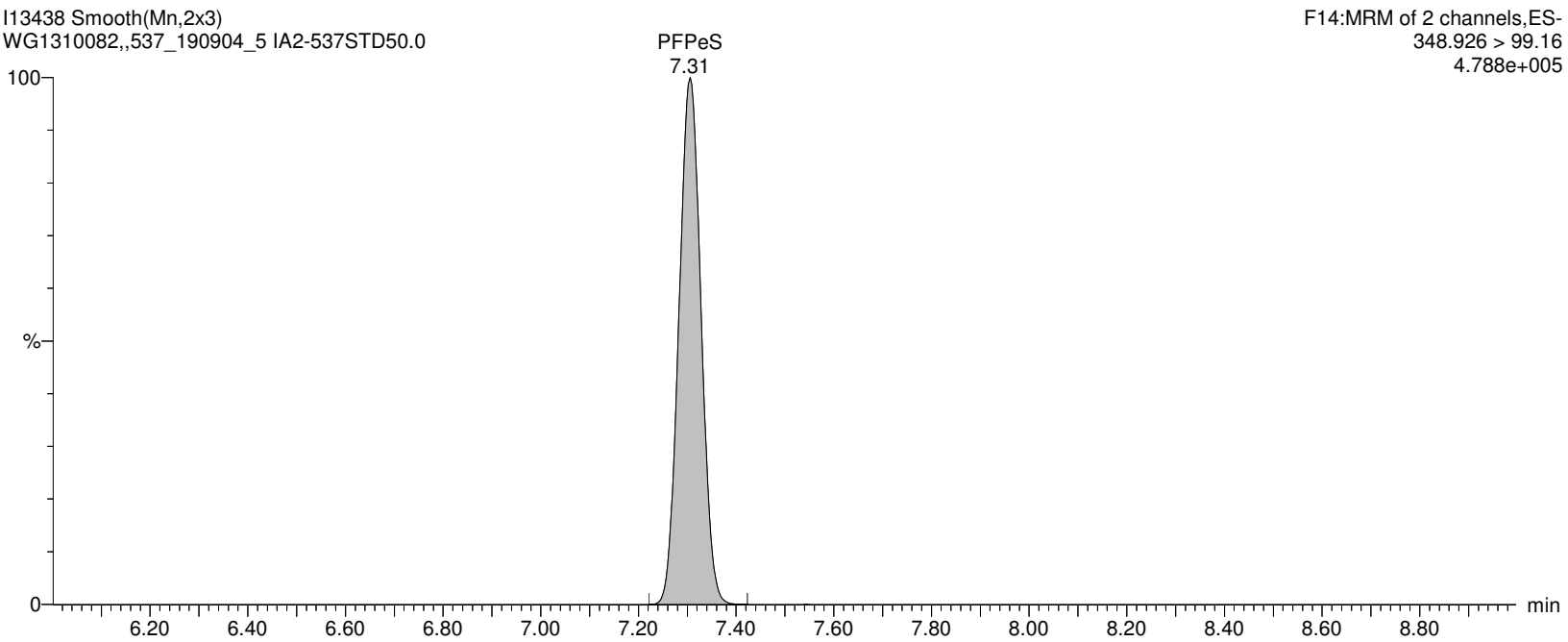

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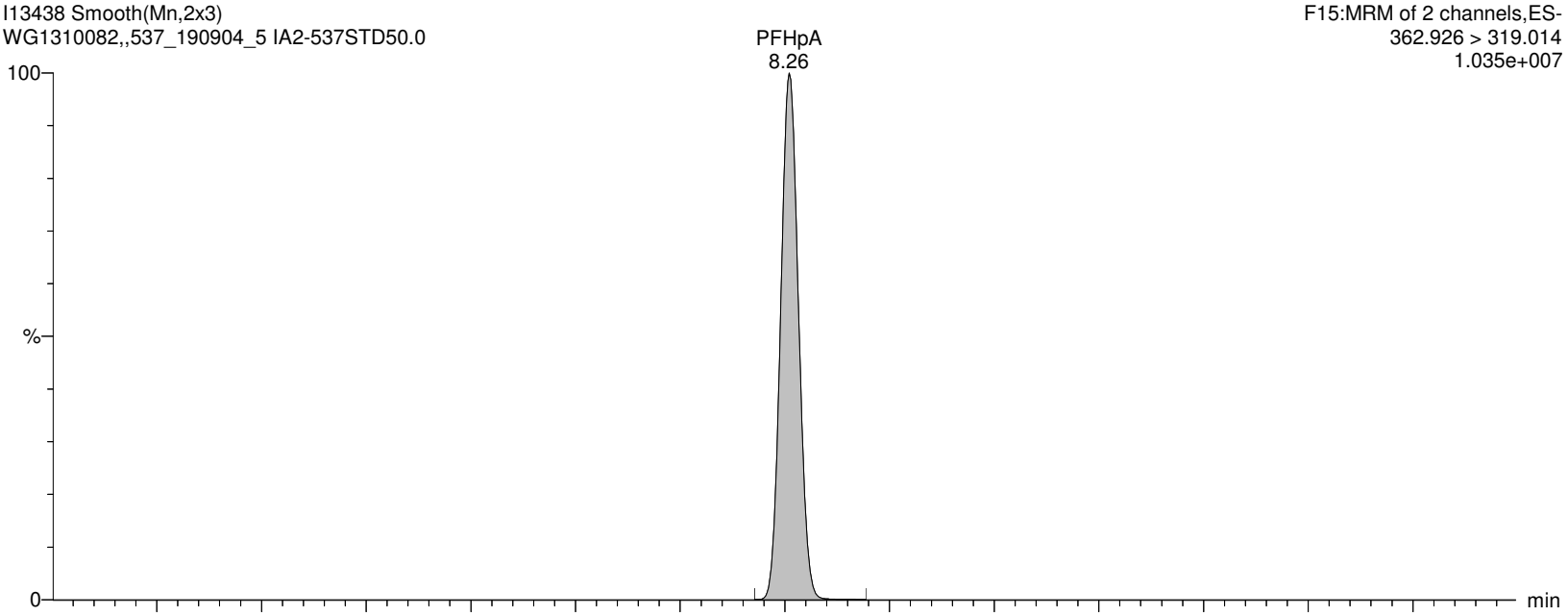

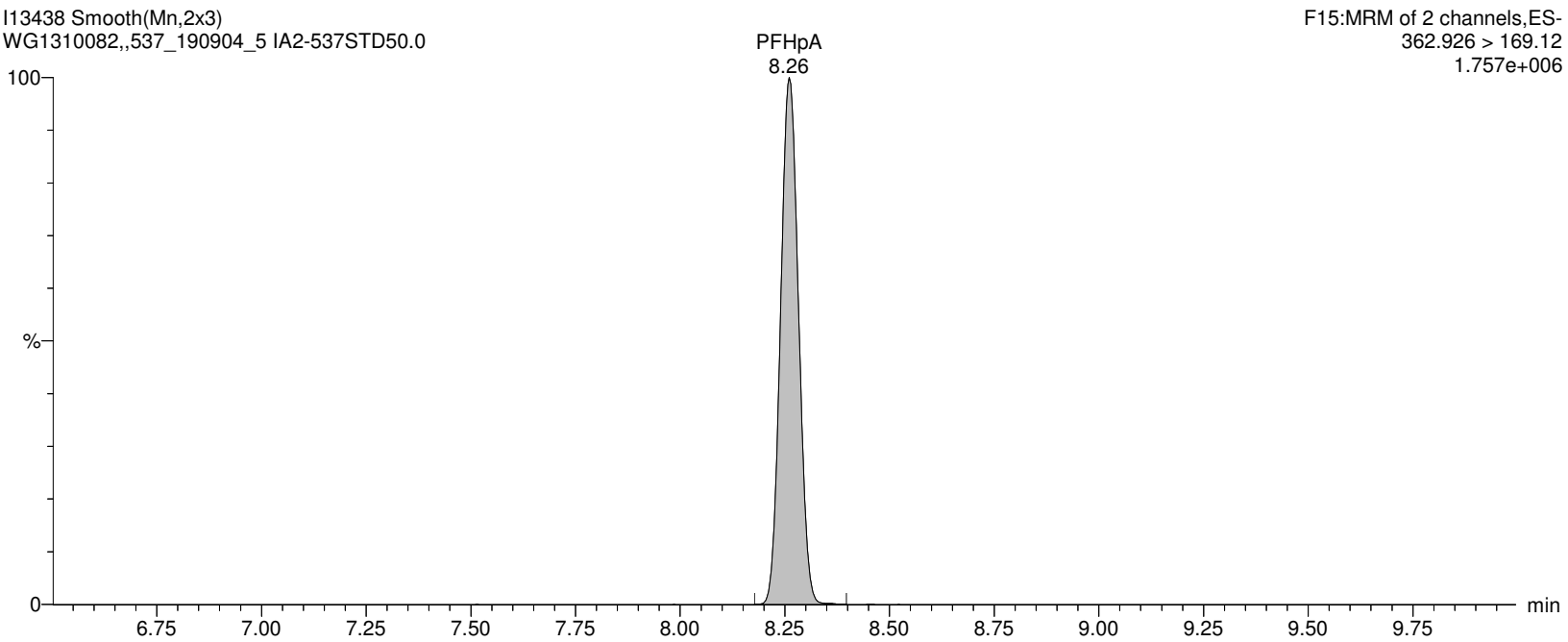

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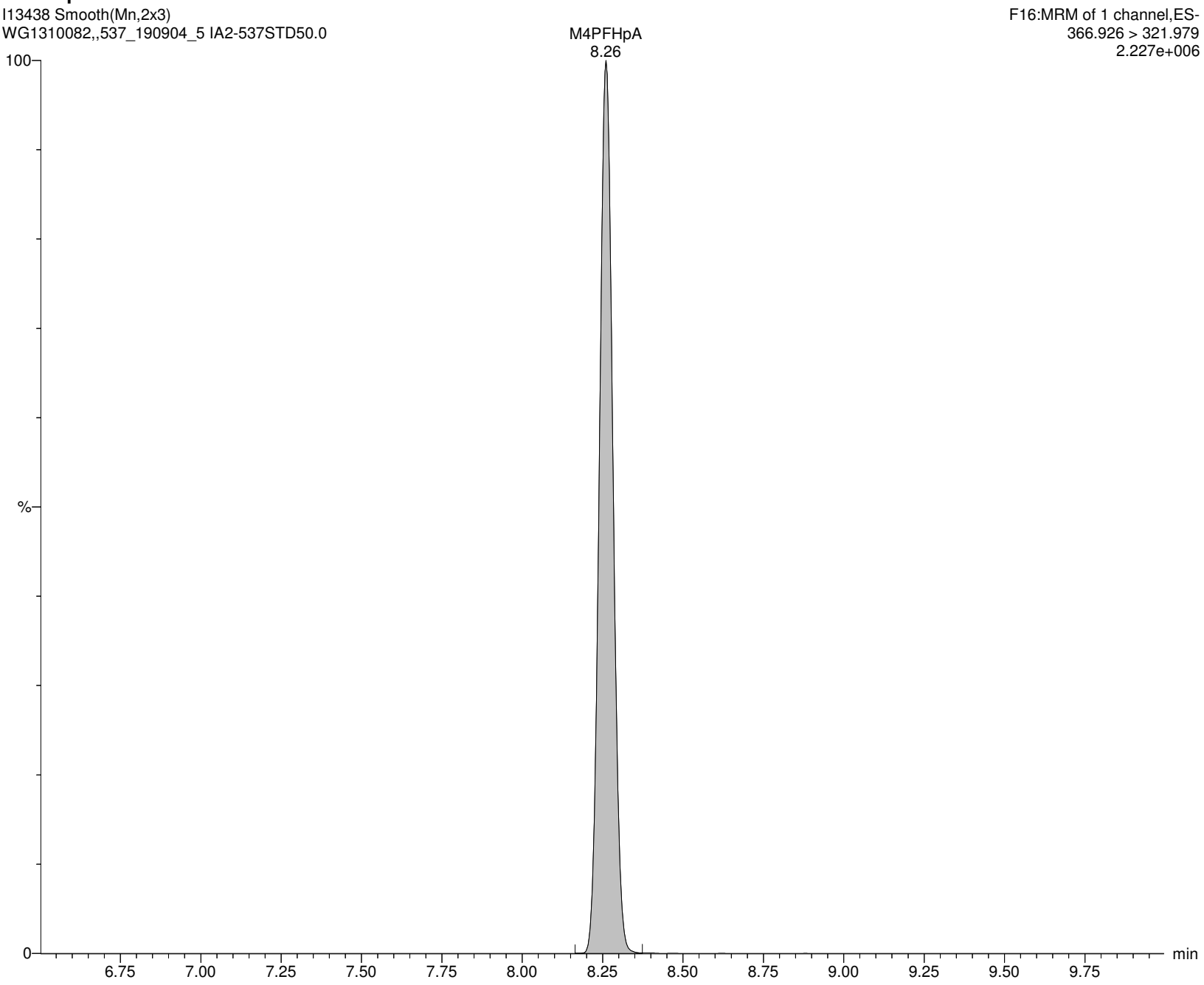

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:56 Eastern Standard Time

Name: I13438
ID: IA2-537STD50.0
Date: 18-Nov-2019
Time: 11:43:24
Description: WG1310082,,537_190904_5
User: LCMS02:JW
Vial: 1:A,6
Instrument: XEVO-TQSmicro#QEB0050
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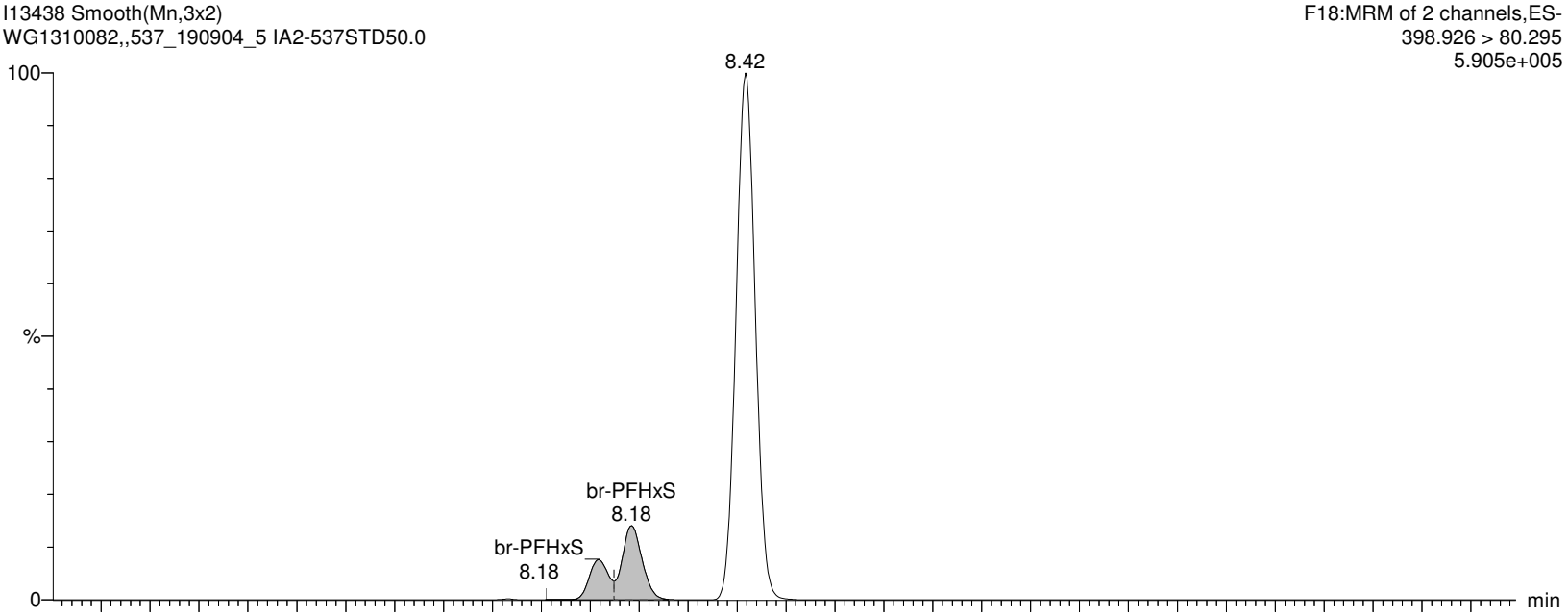

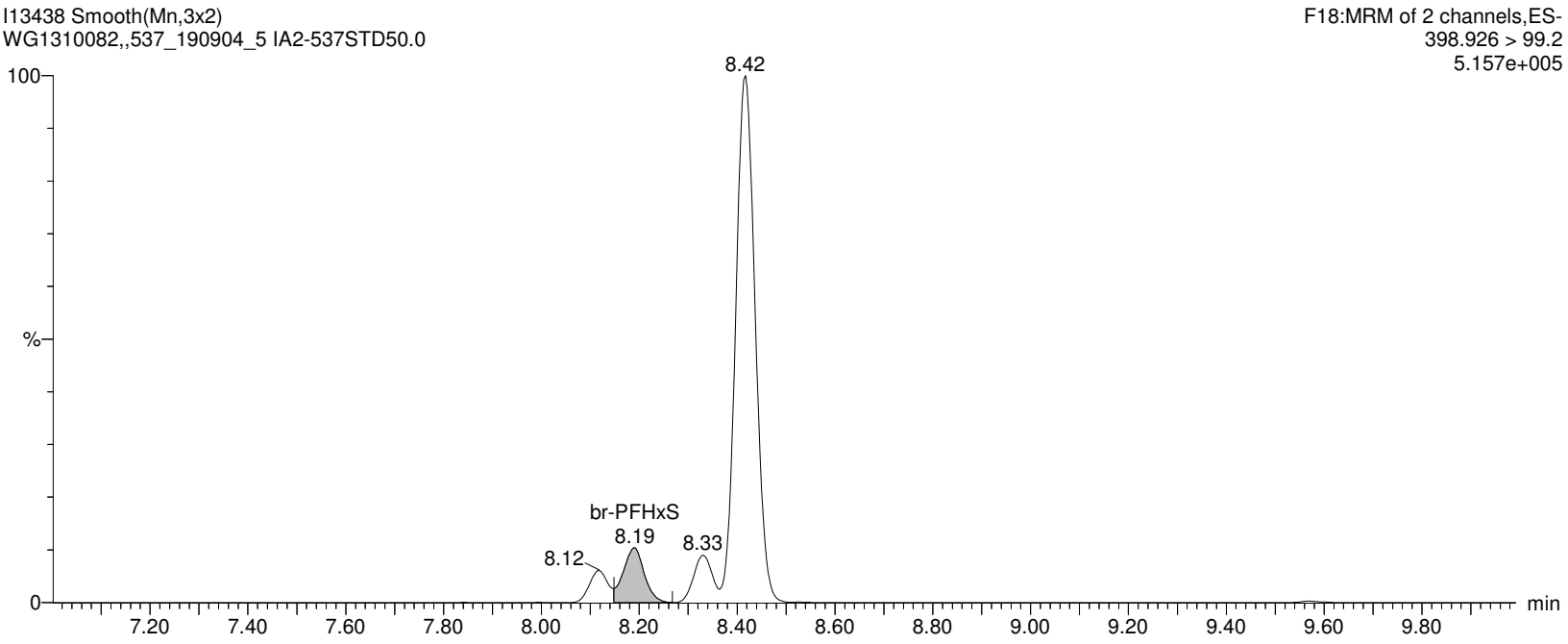

all concentration units in (ng/mL)

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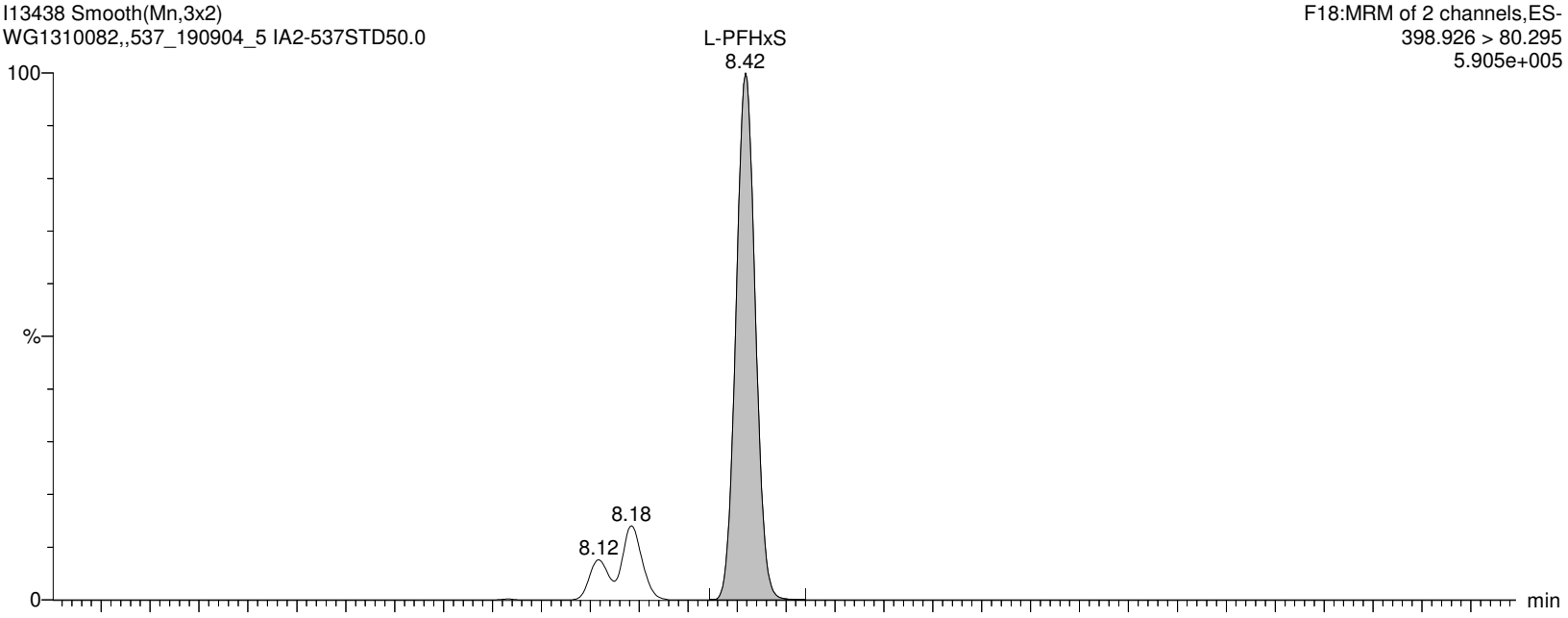

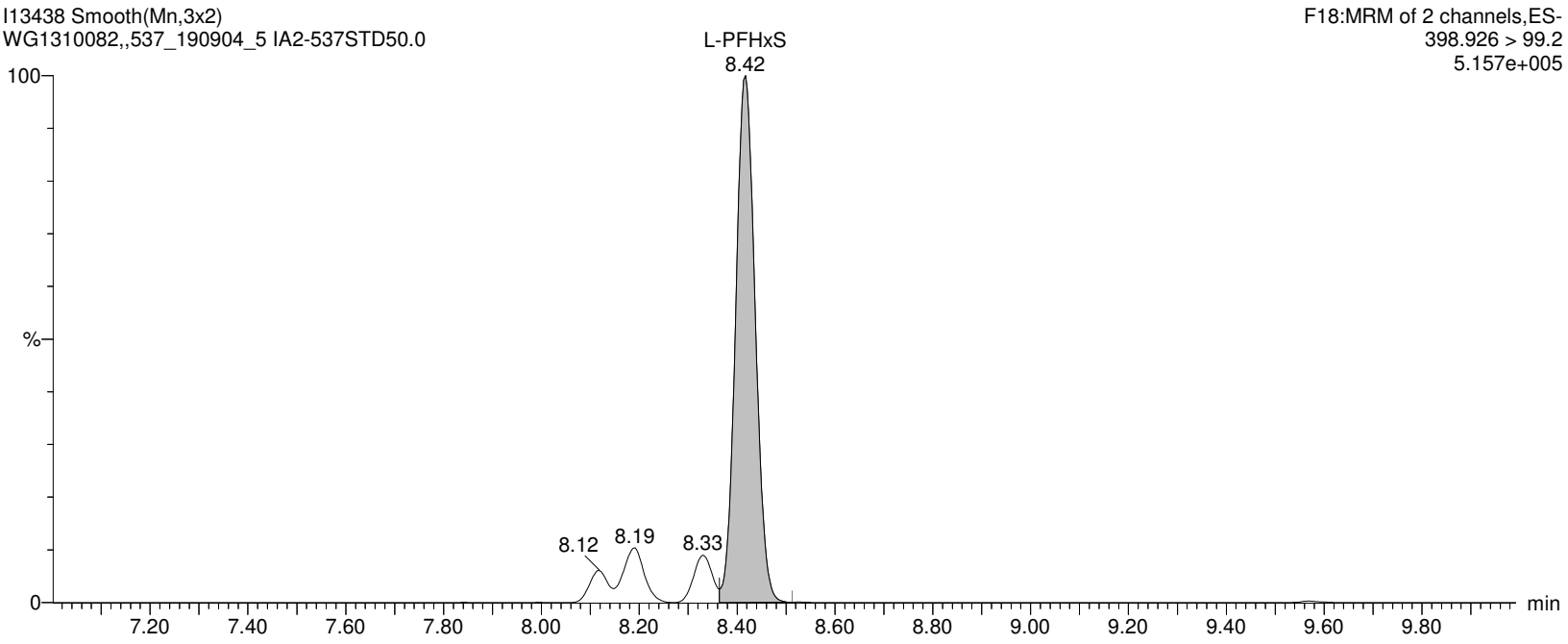

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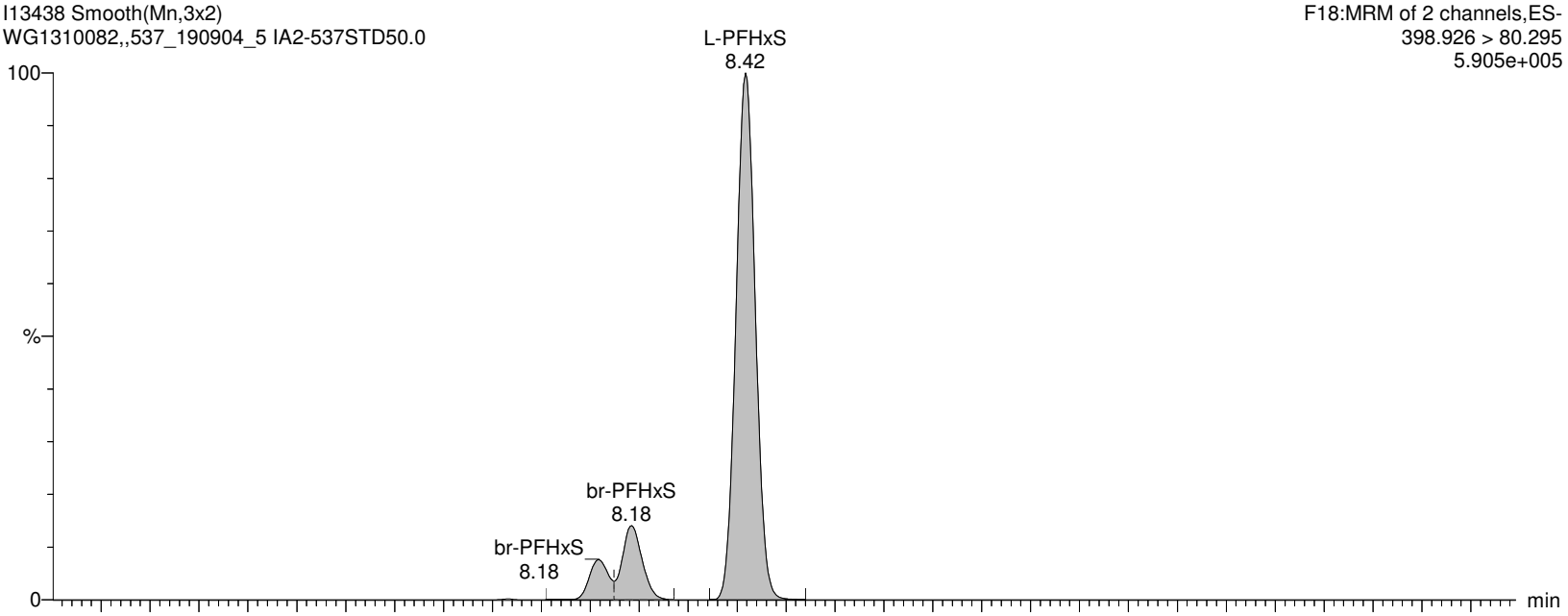

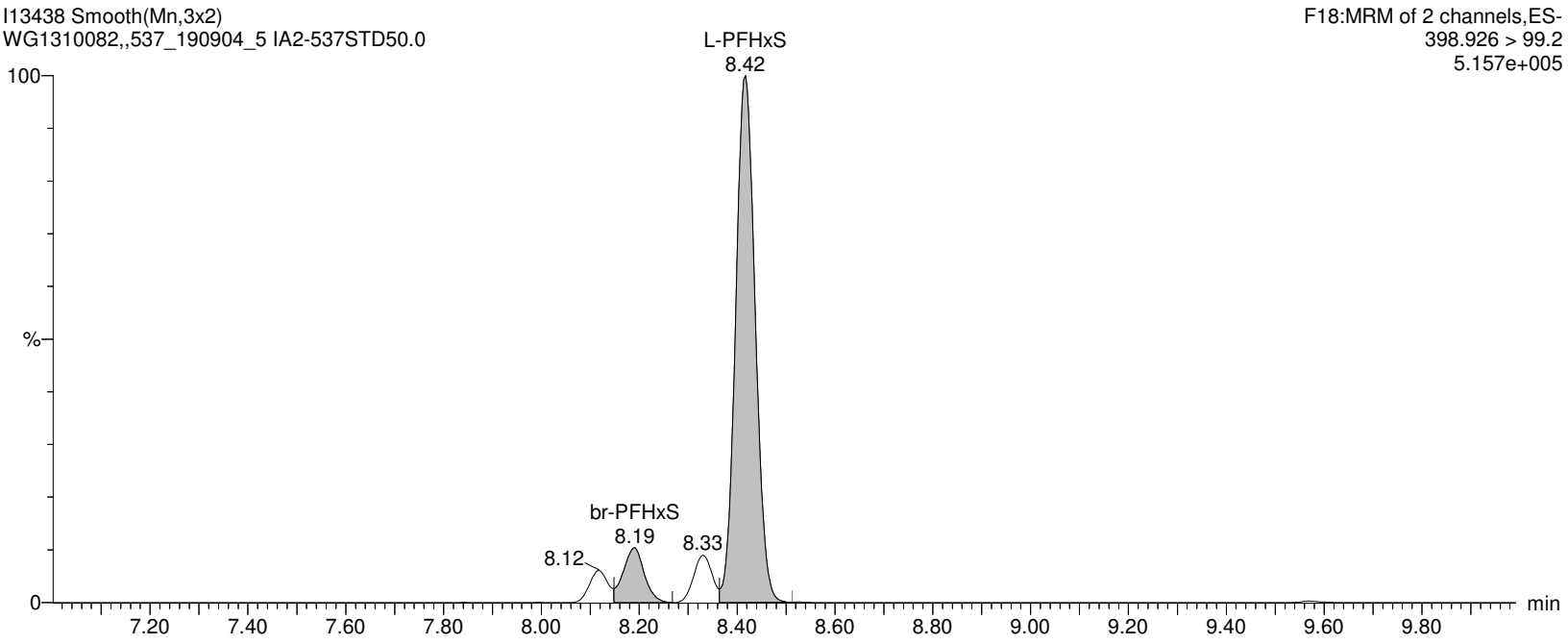

all concentration units in (ng/mL)

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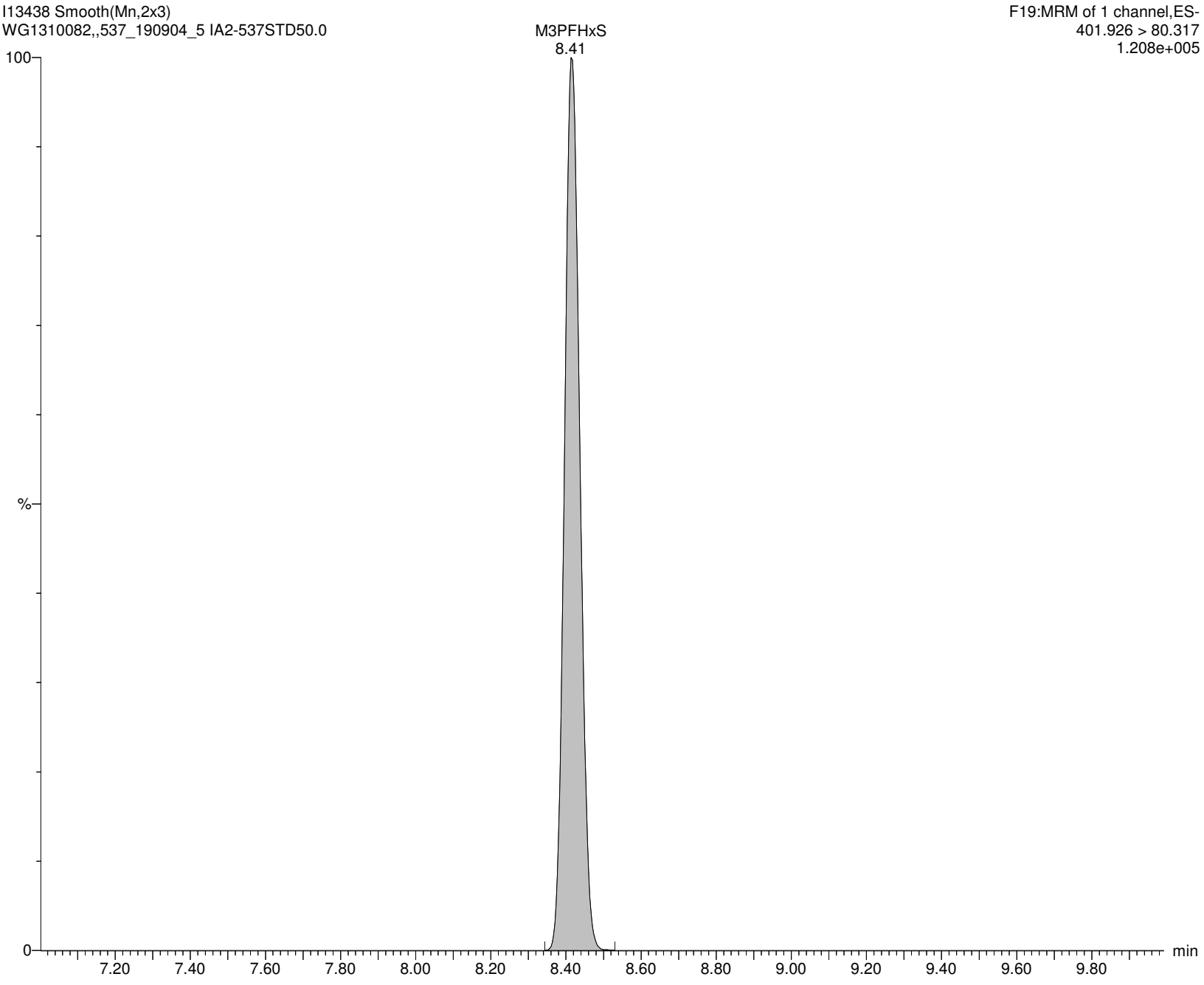

all concentration units in (ng/mL)

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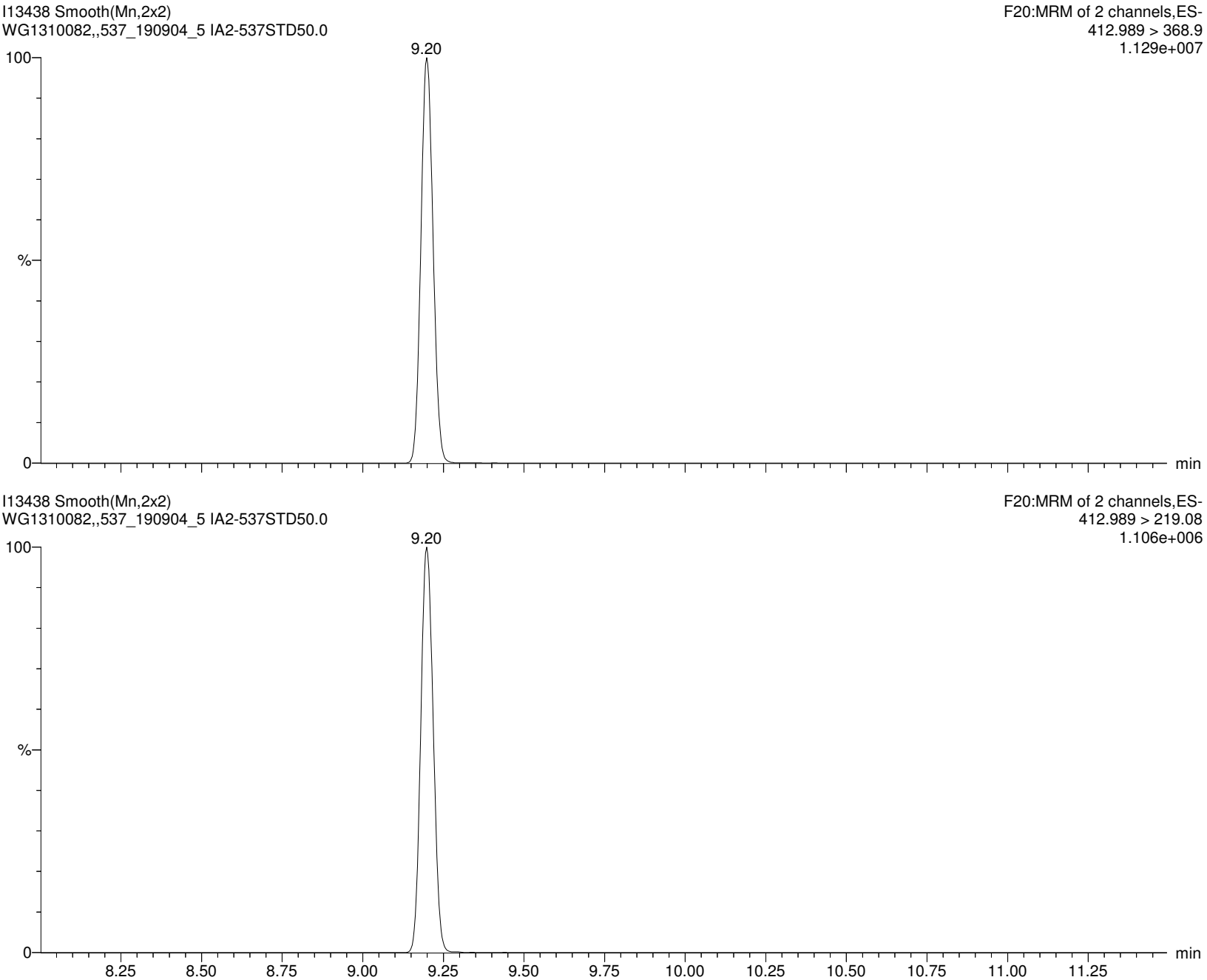

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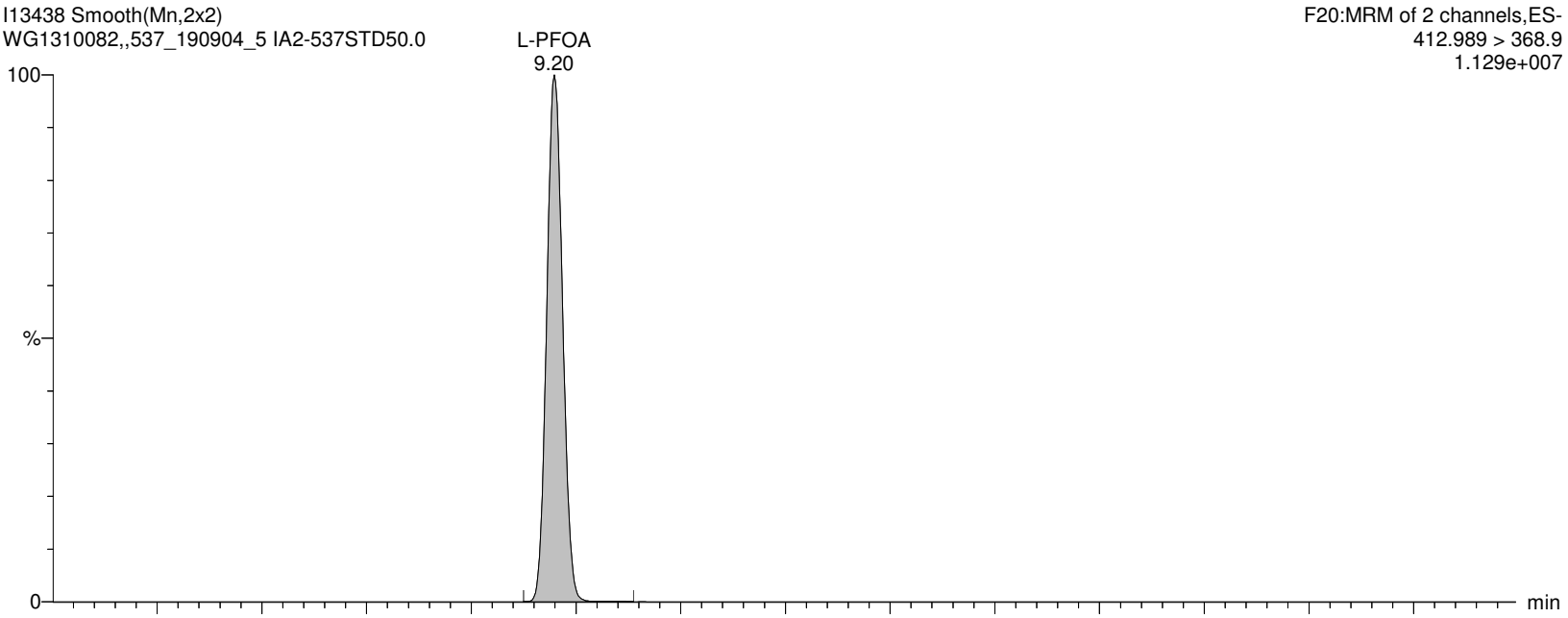

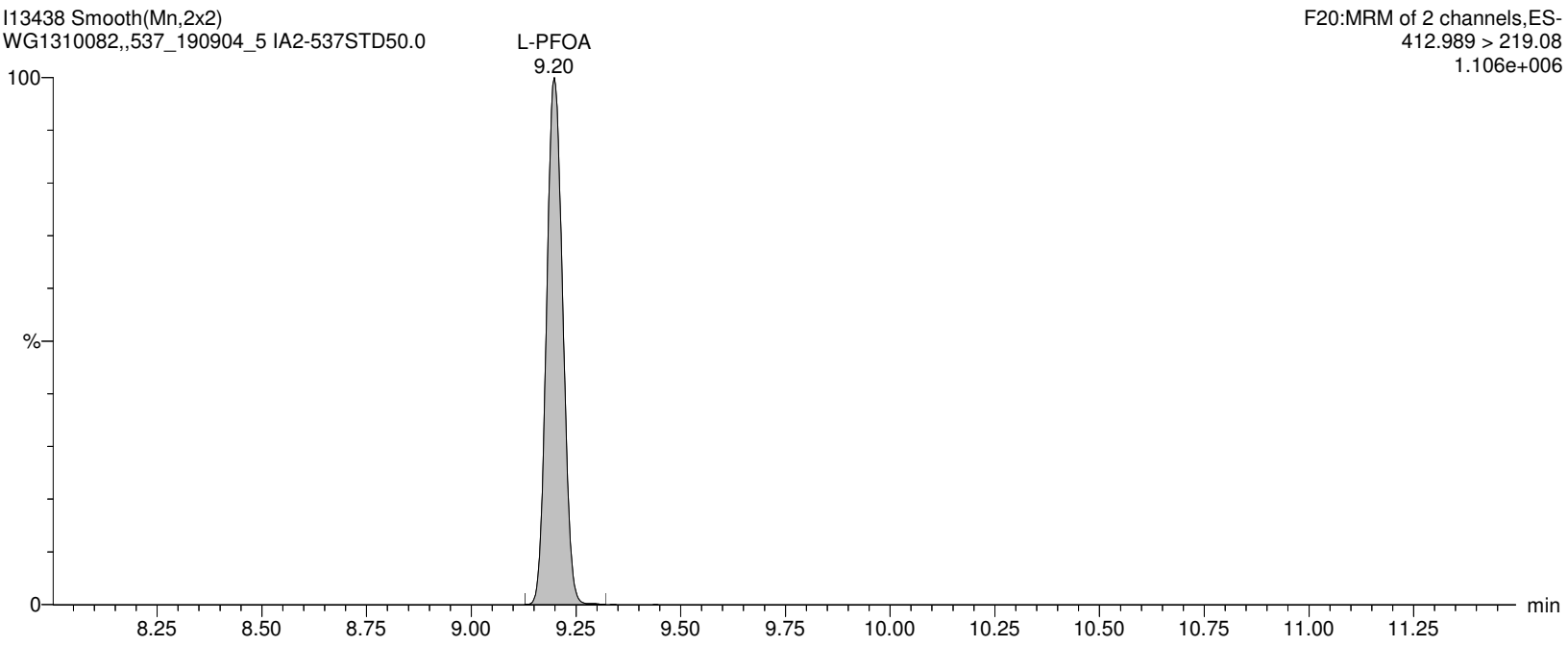

all concentration units in (ng/mL)

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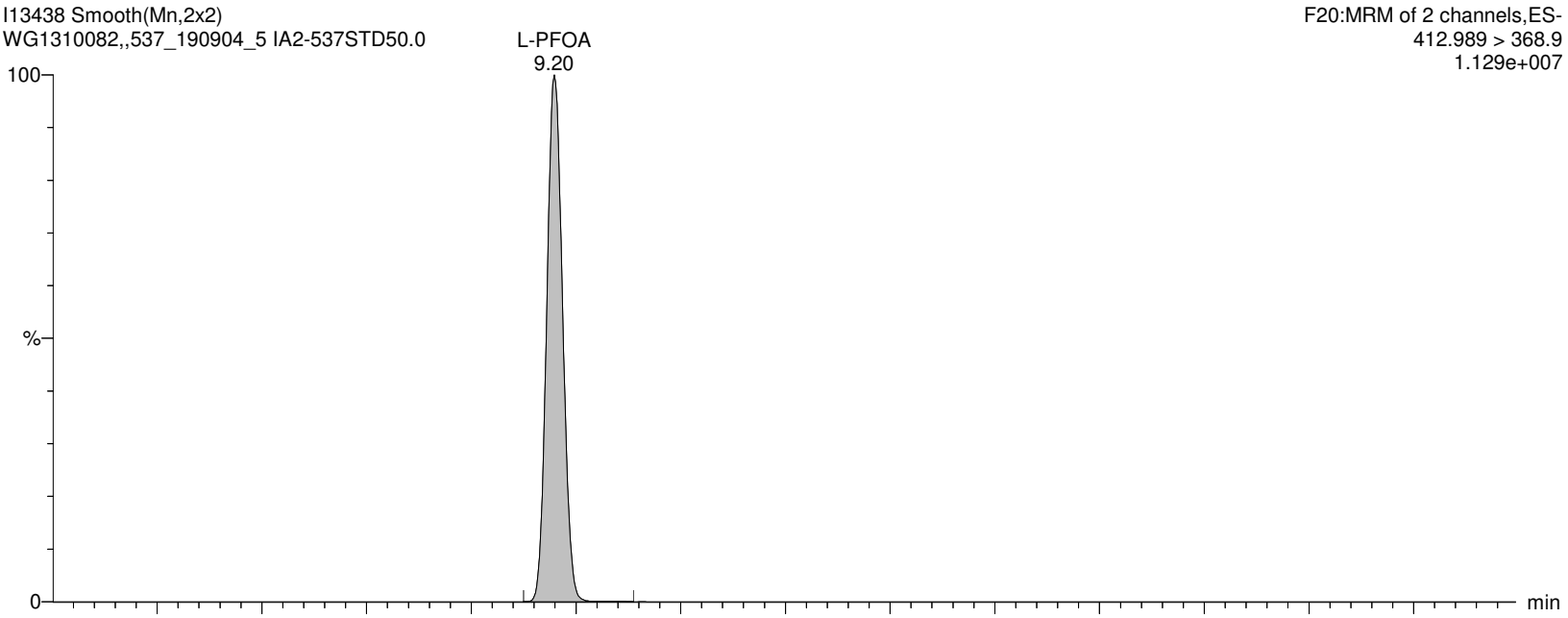

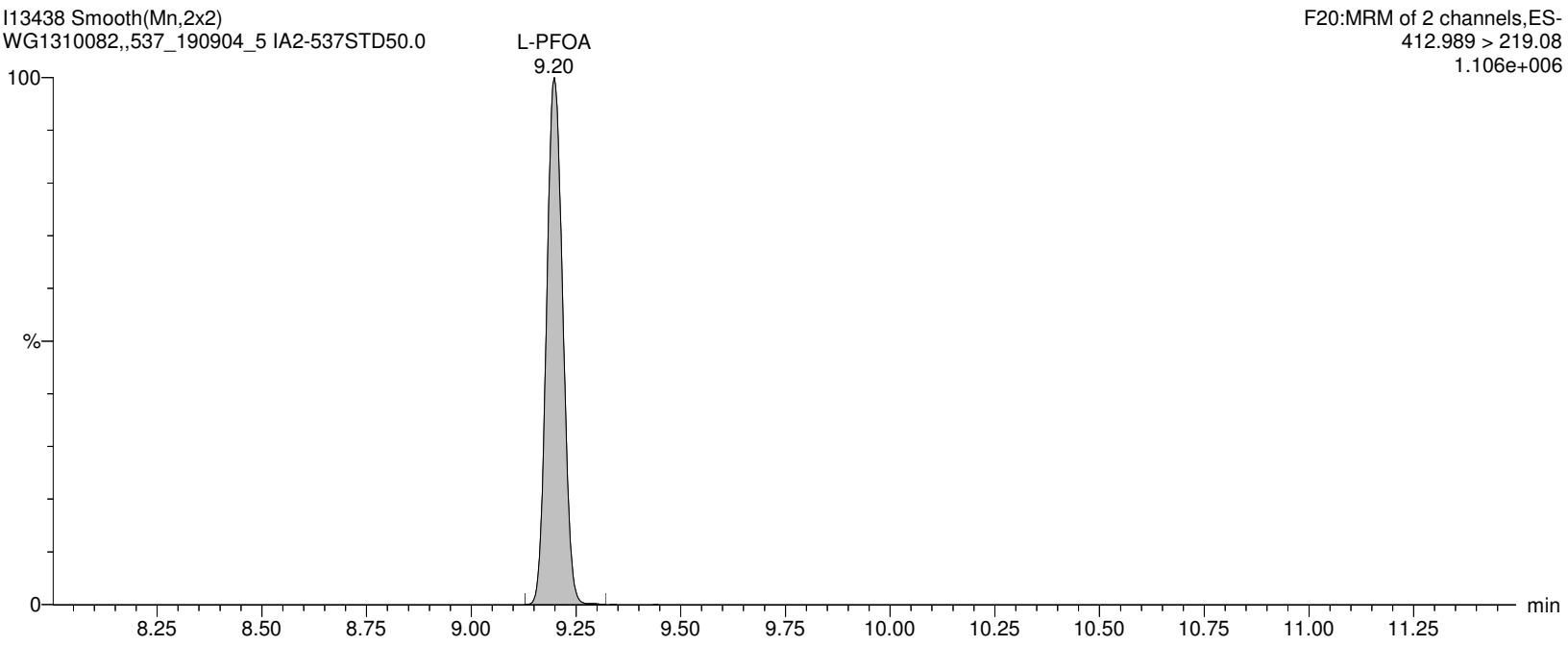

all concentration units in (ng/mL)

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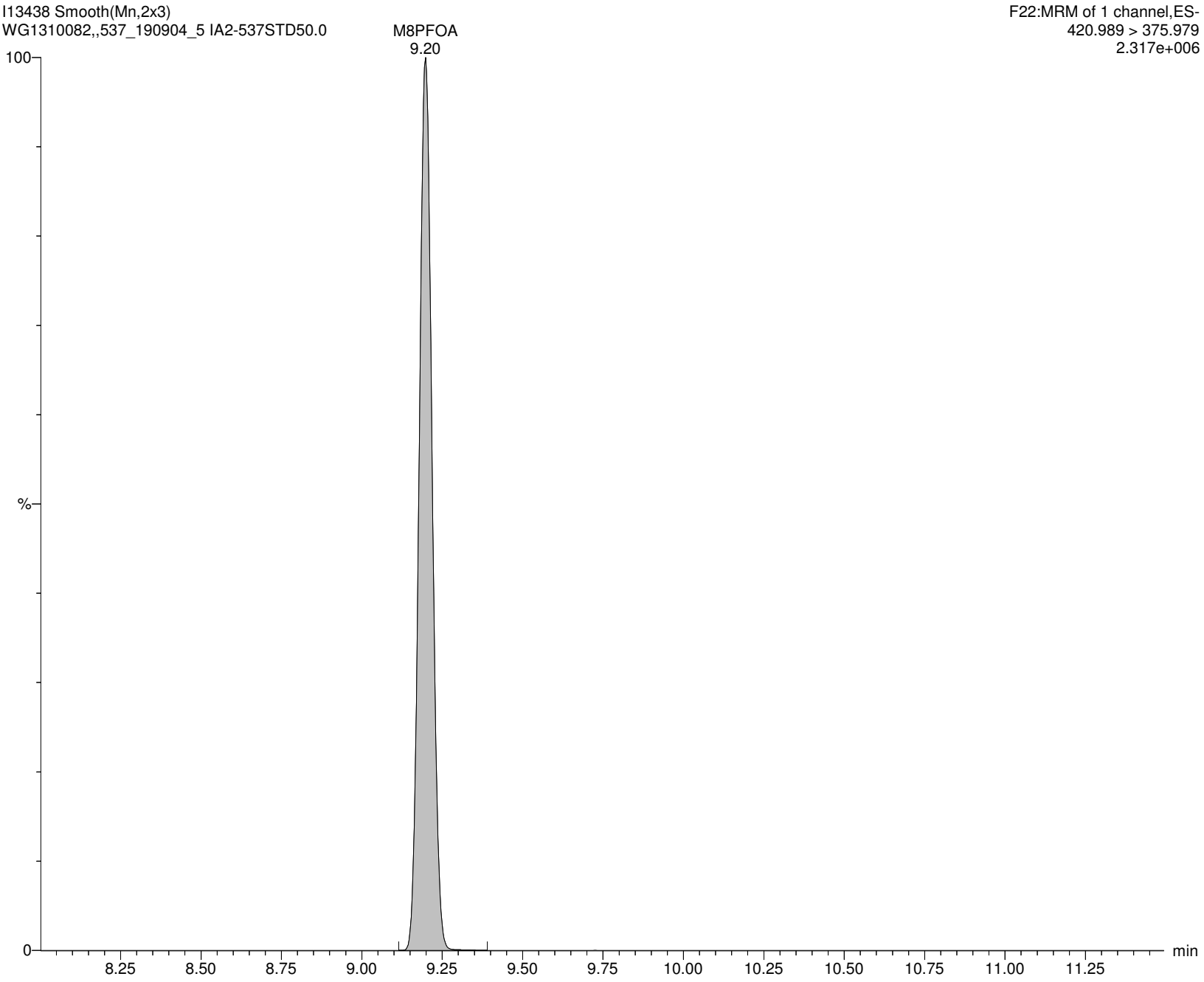

all concentration units in (ng/mL)

Alpha Analytical Inc.
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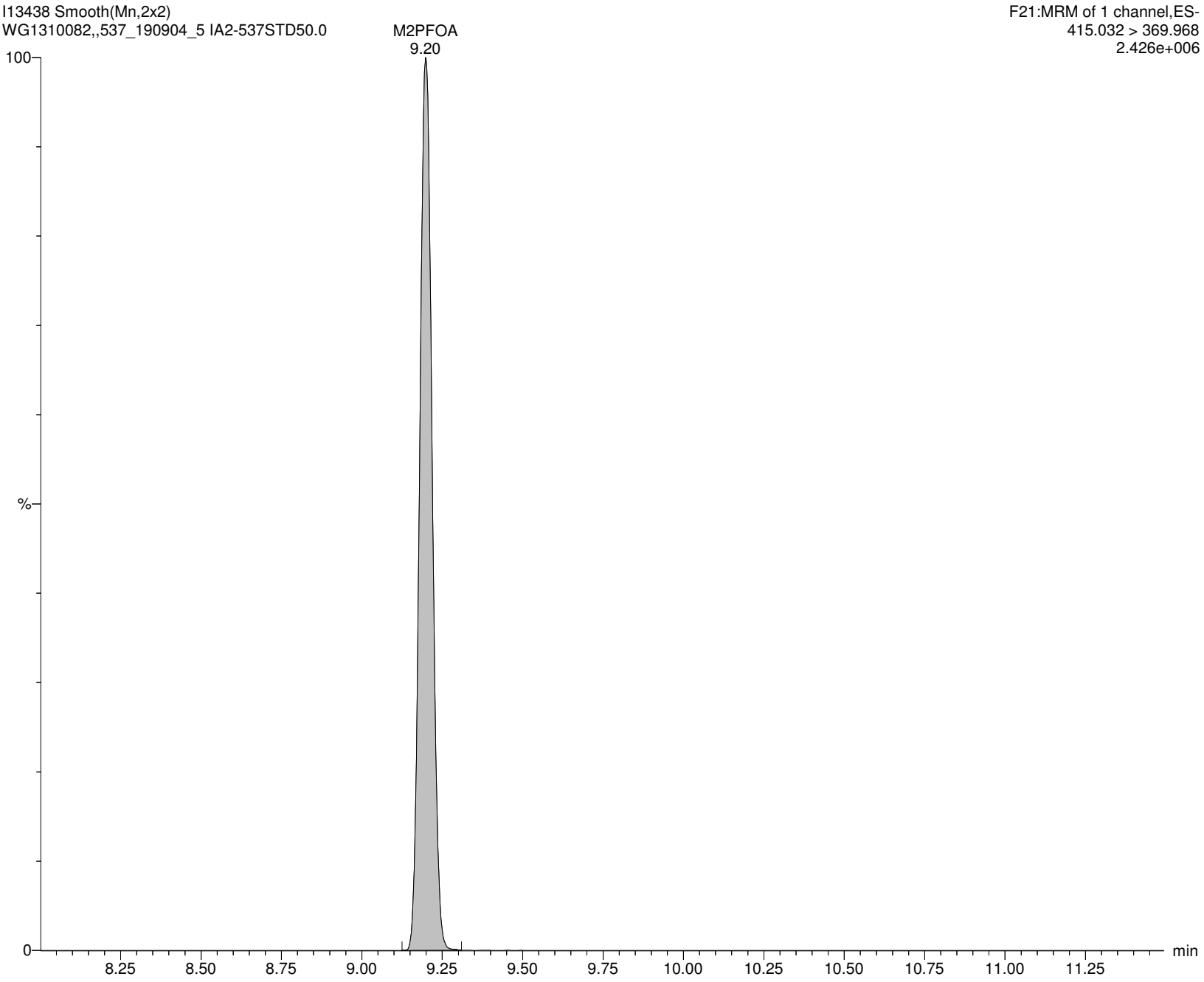

all concentration units in (ng/mL)

Alpha Analytical Inc.
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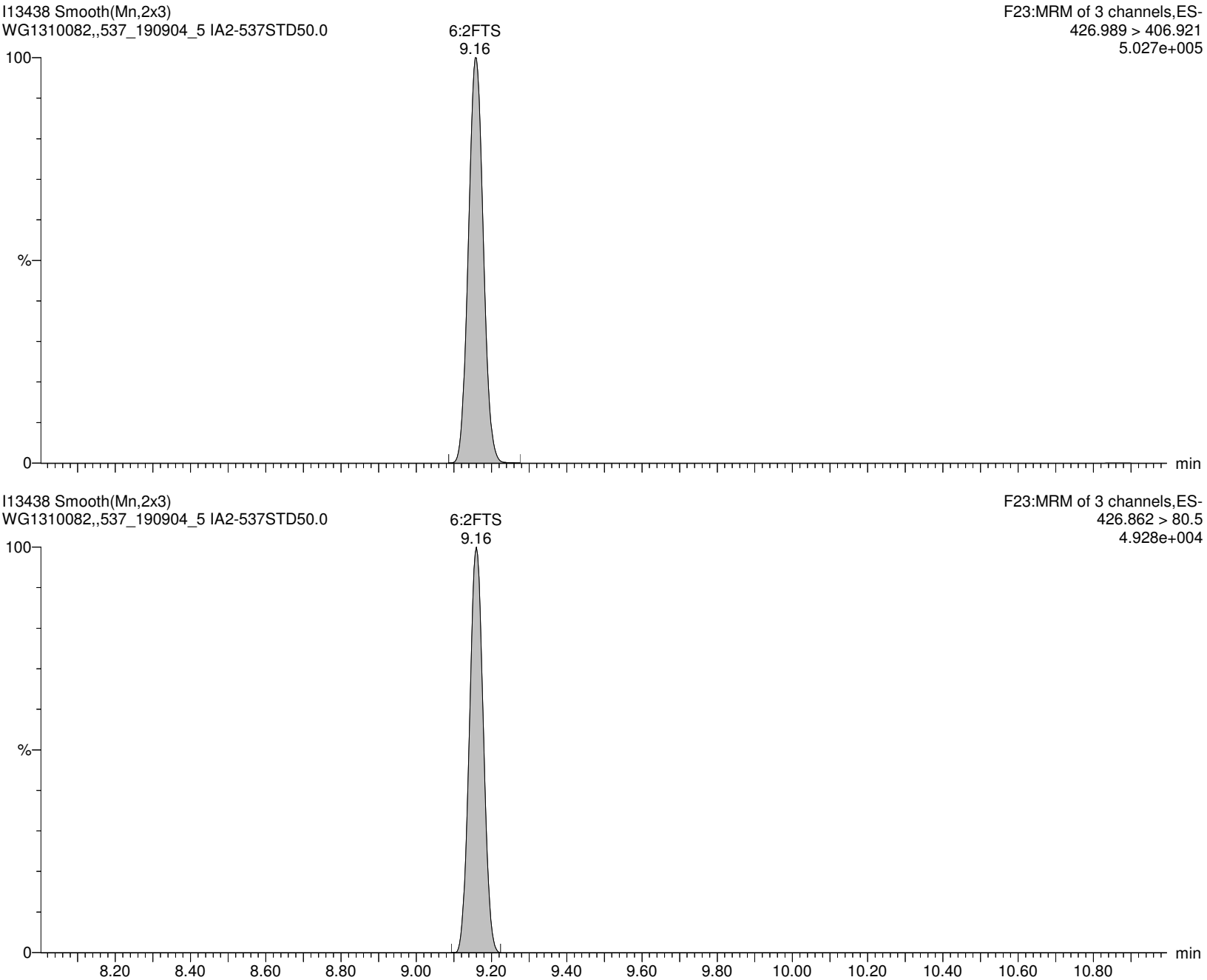

all concentration units in (ng/mL)

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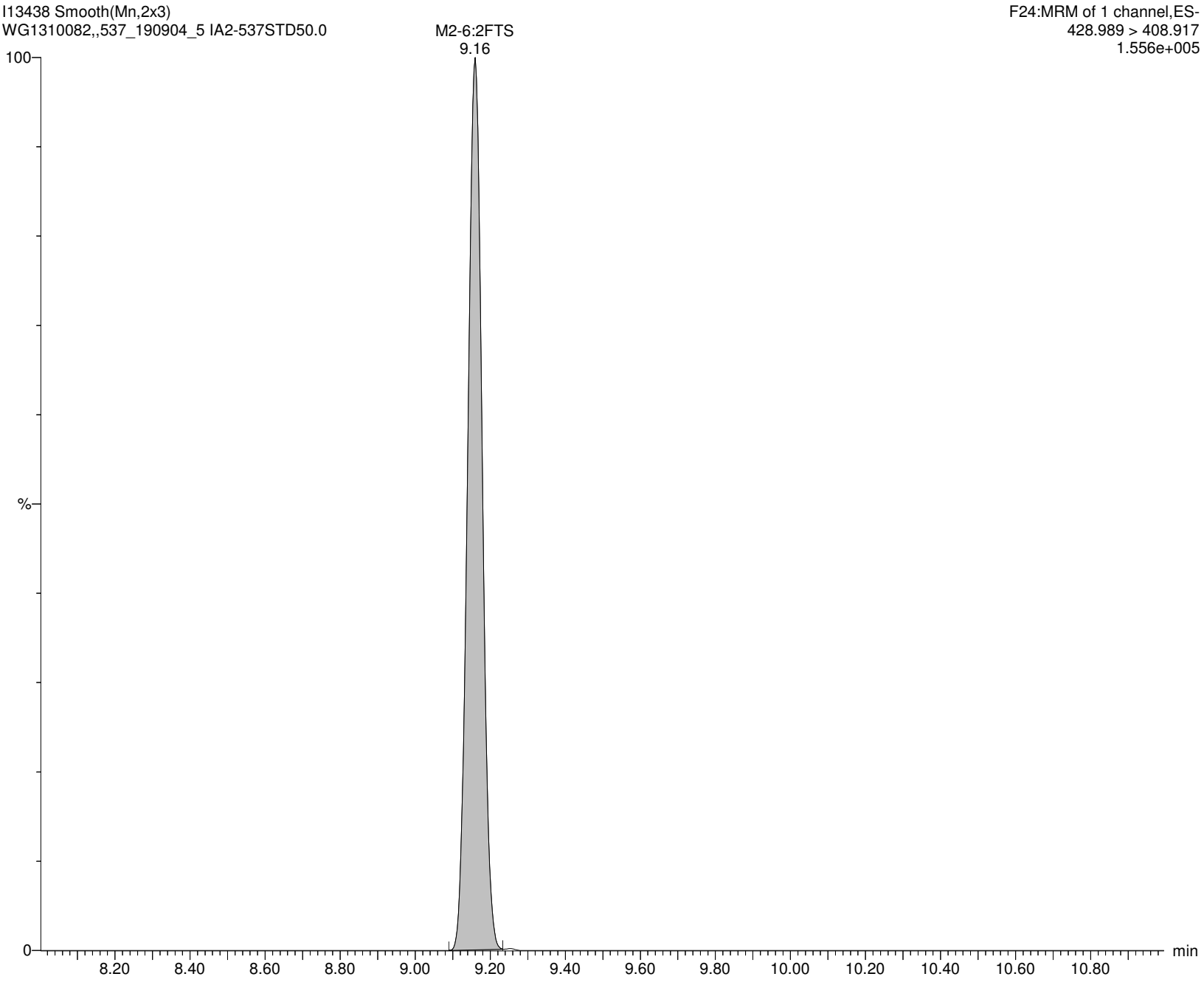

all concentration units in (ng/mL)

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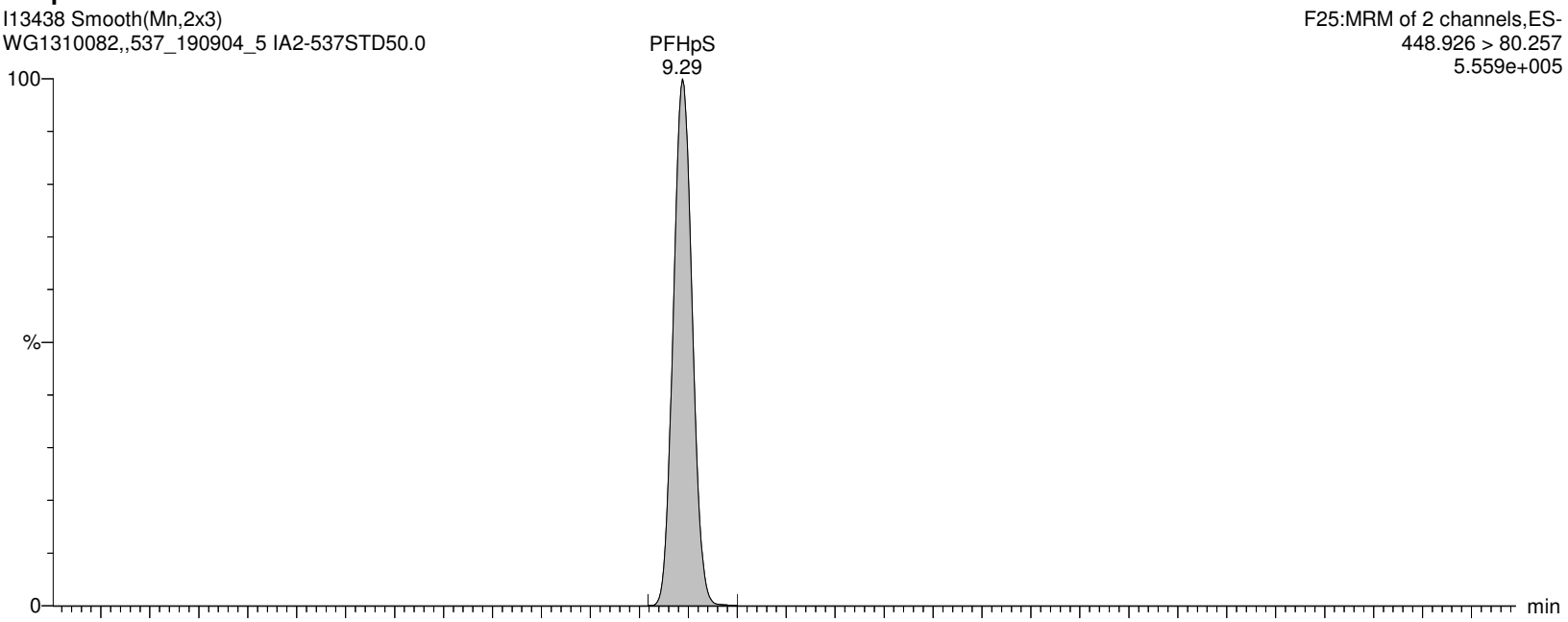

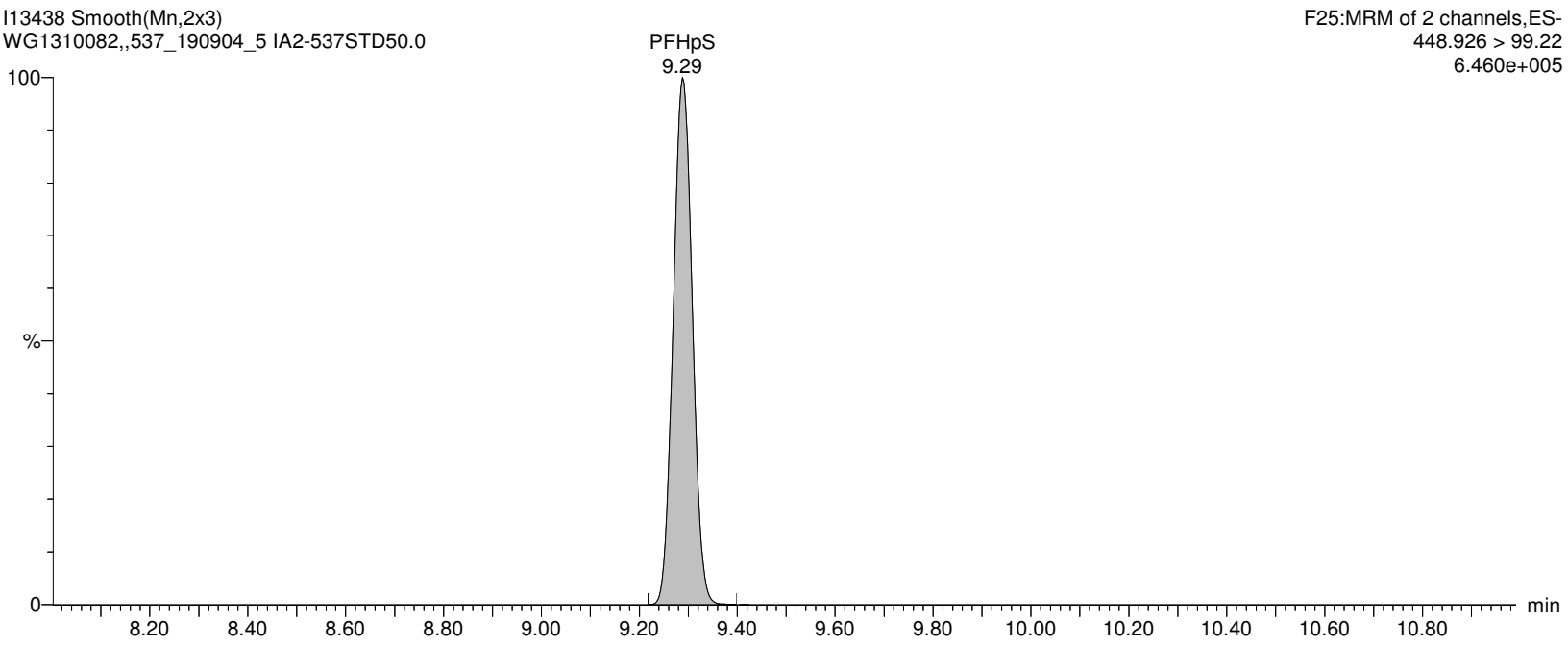

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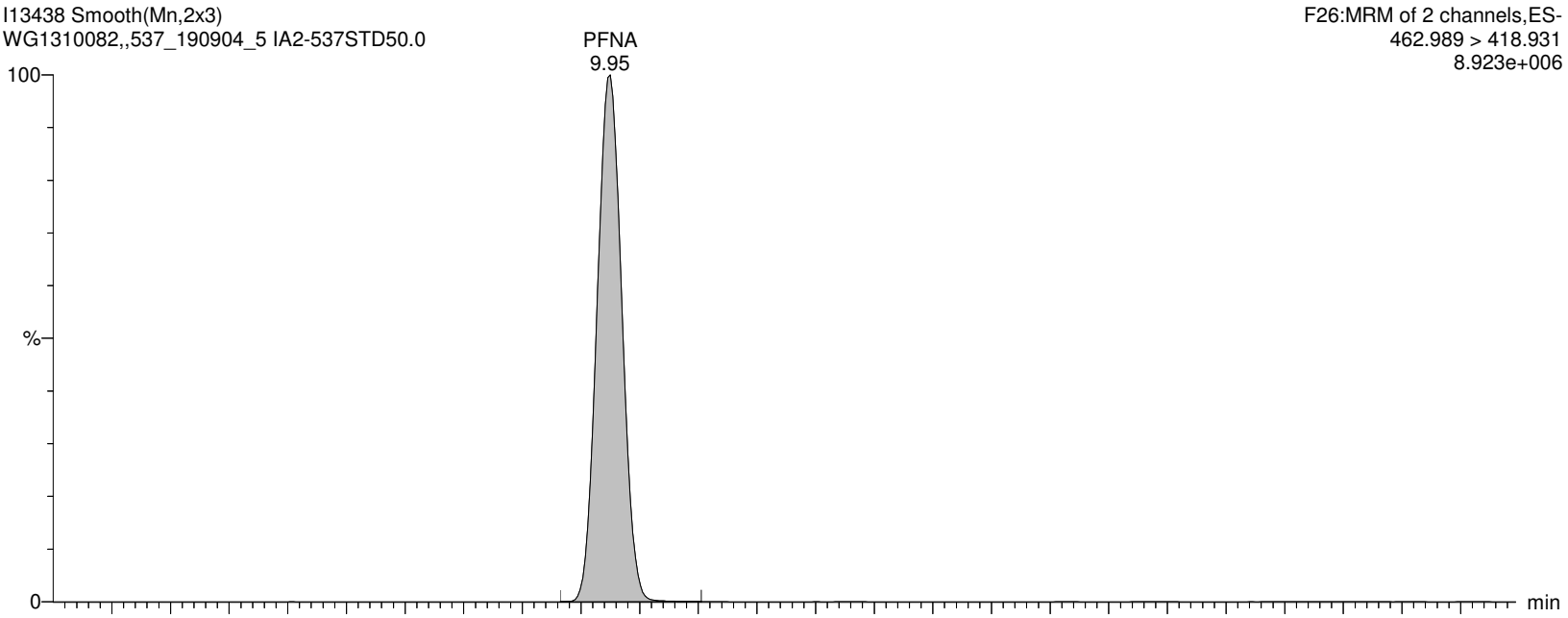

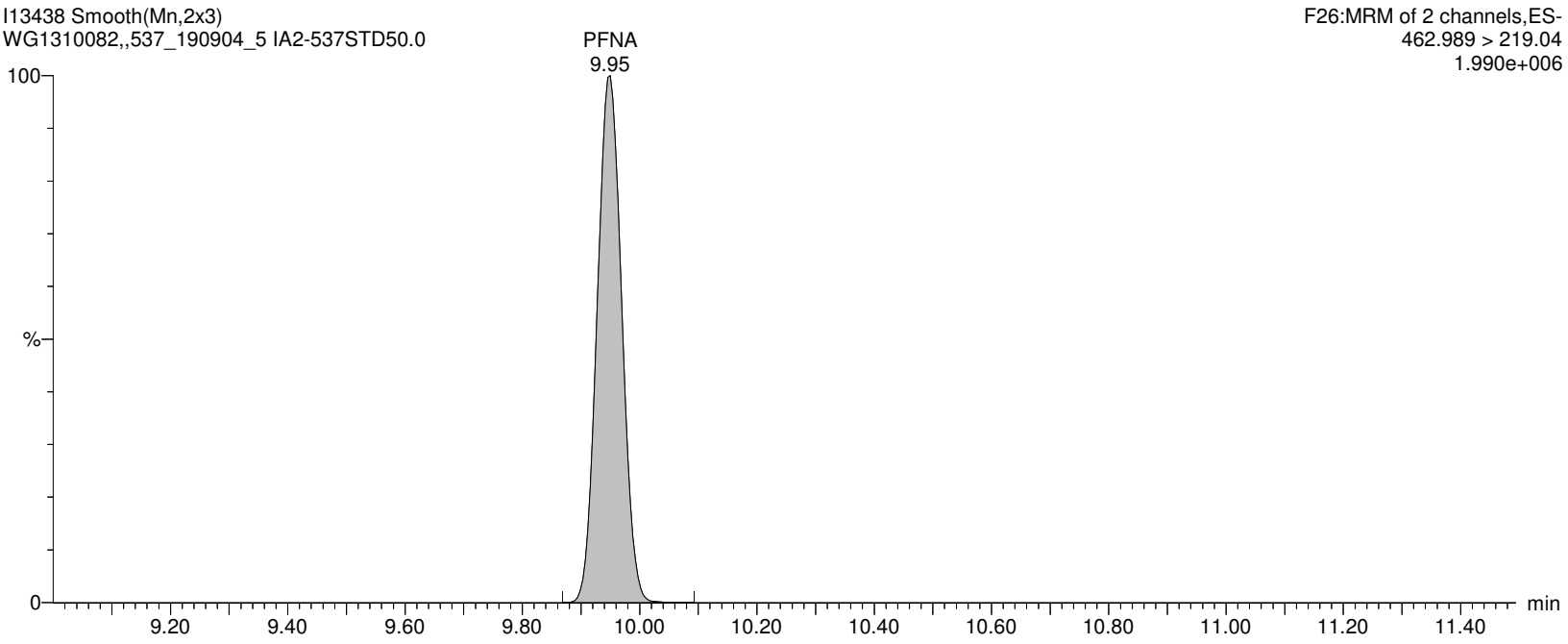

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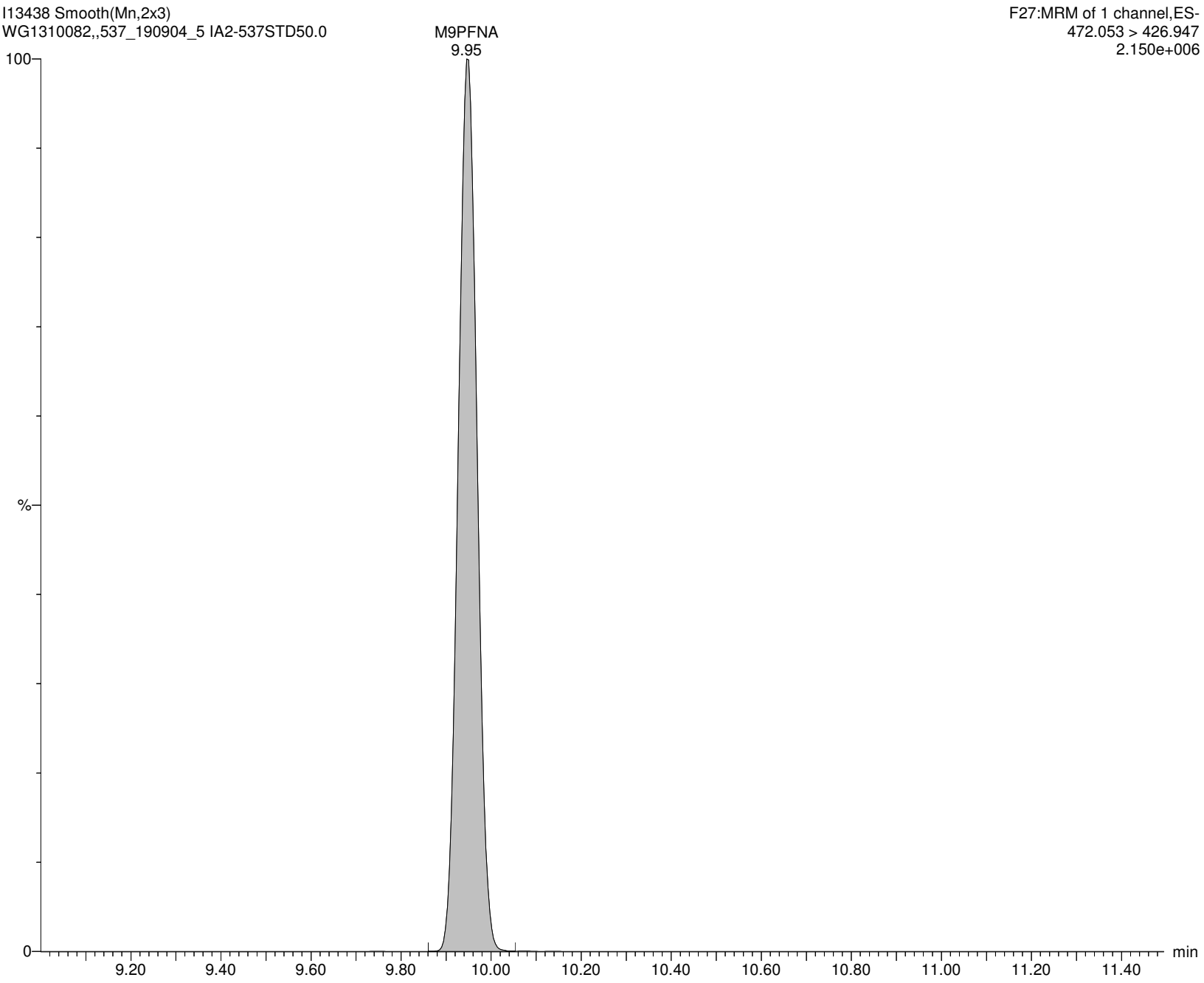

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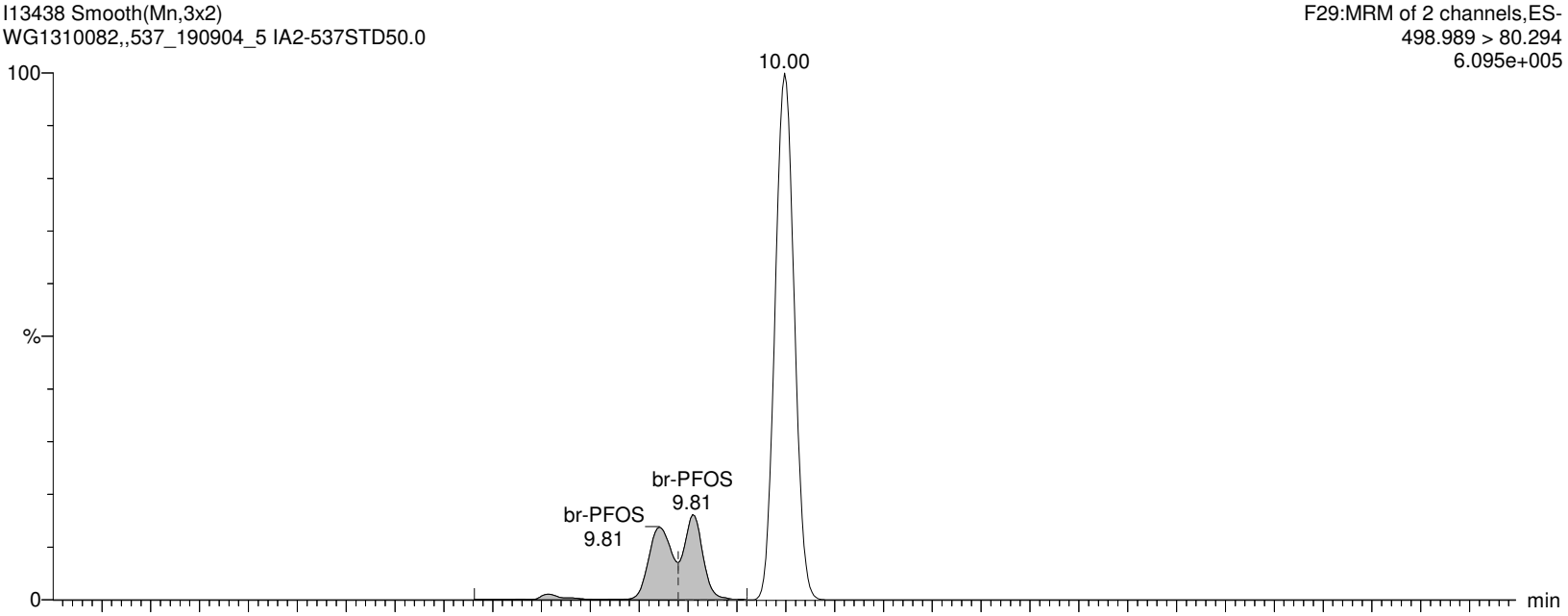

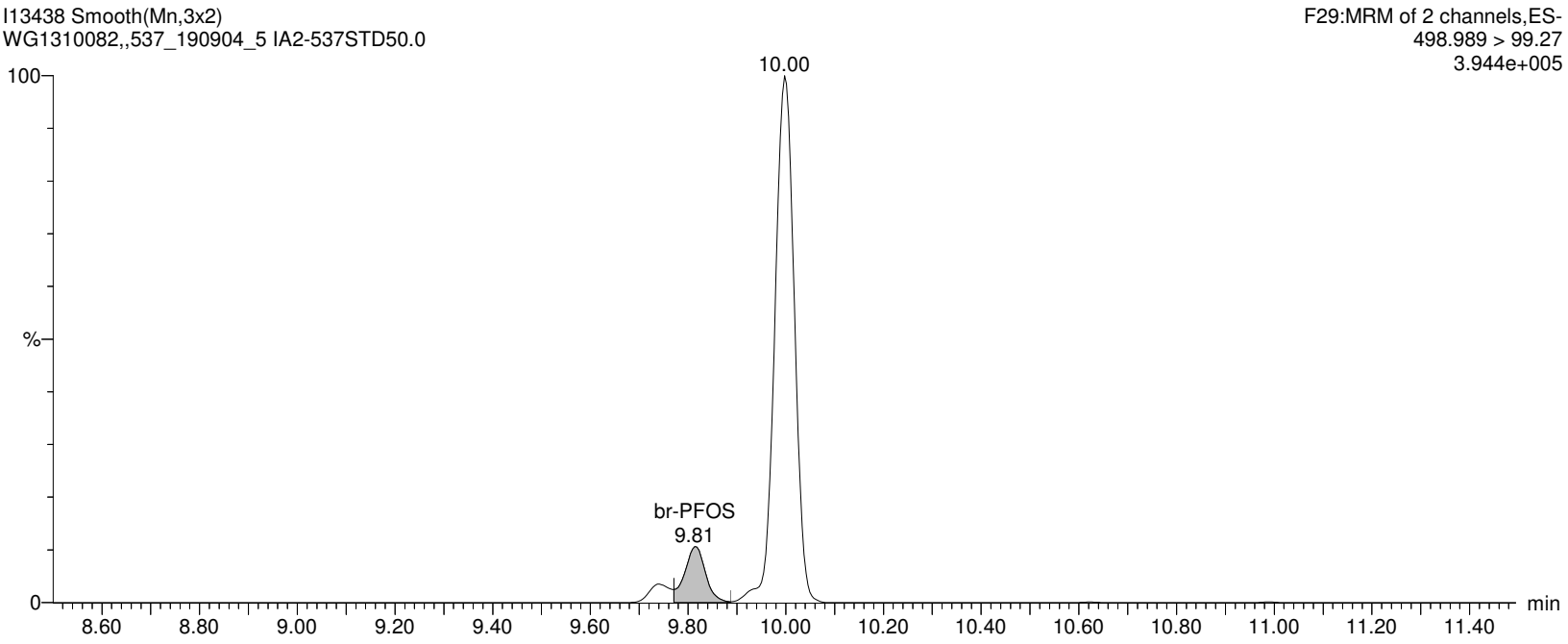

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Name: I13438
ID: IA2-537STD50.0
Date: 18-Nov-2019
Time: 11:43:24
Description: WG1310082,,537_190904_5
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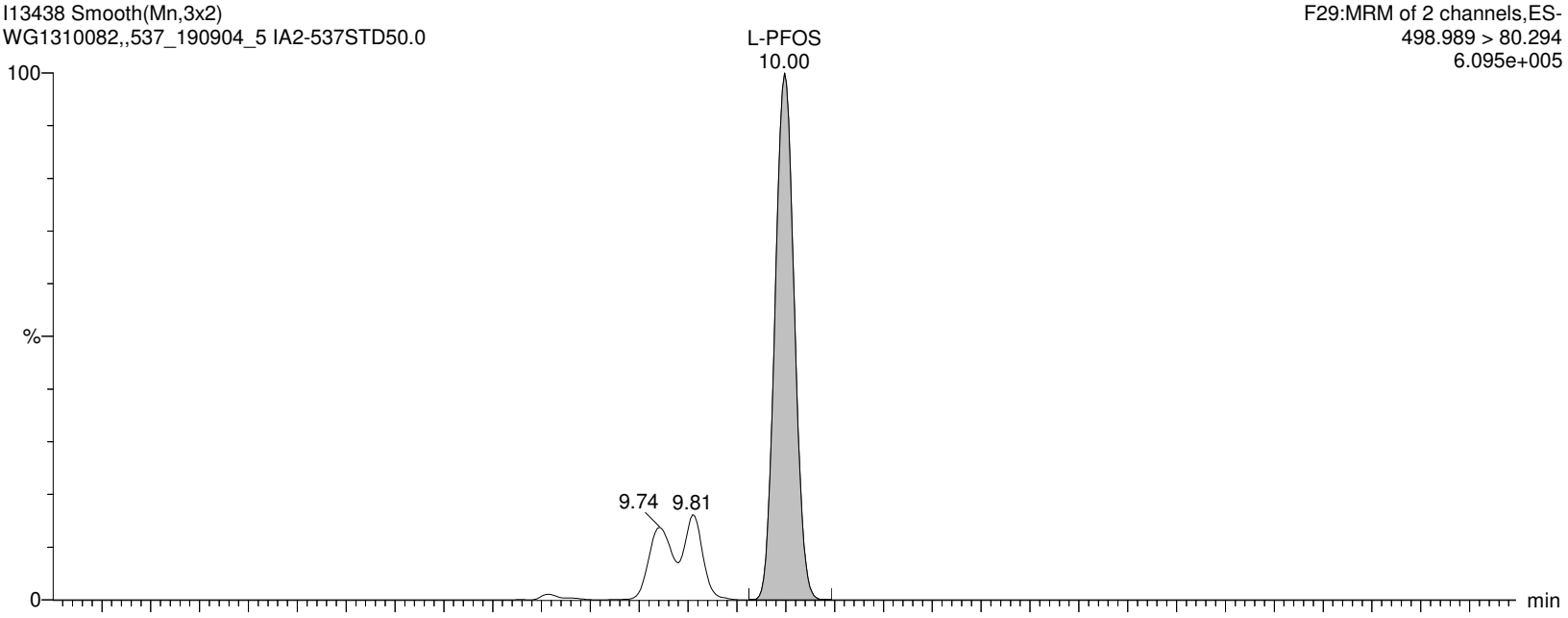

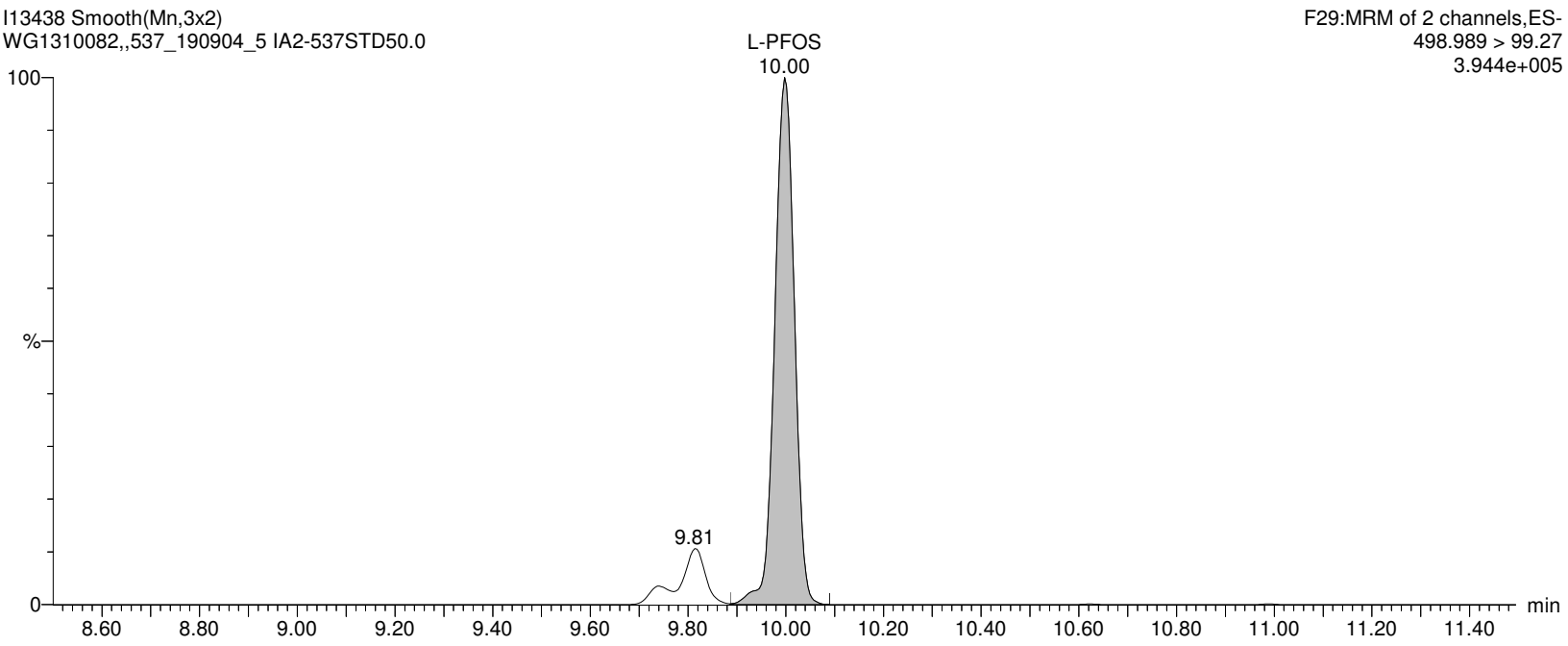

all concentration units in (ng/mL)

Alpha Analytical Inc.
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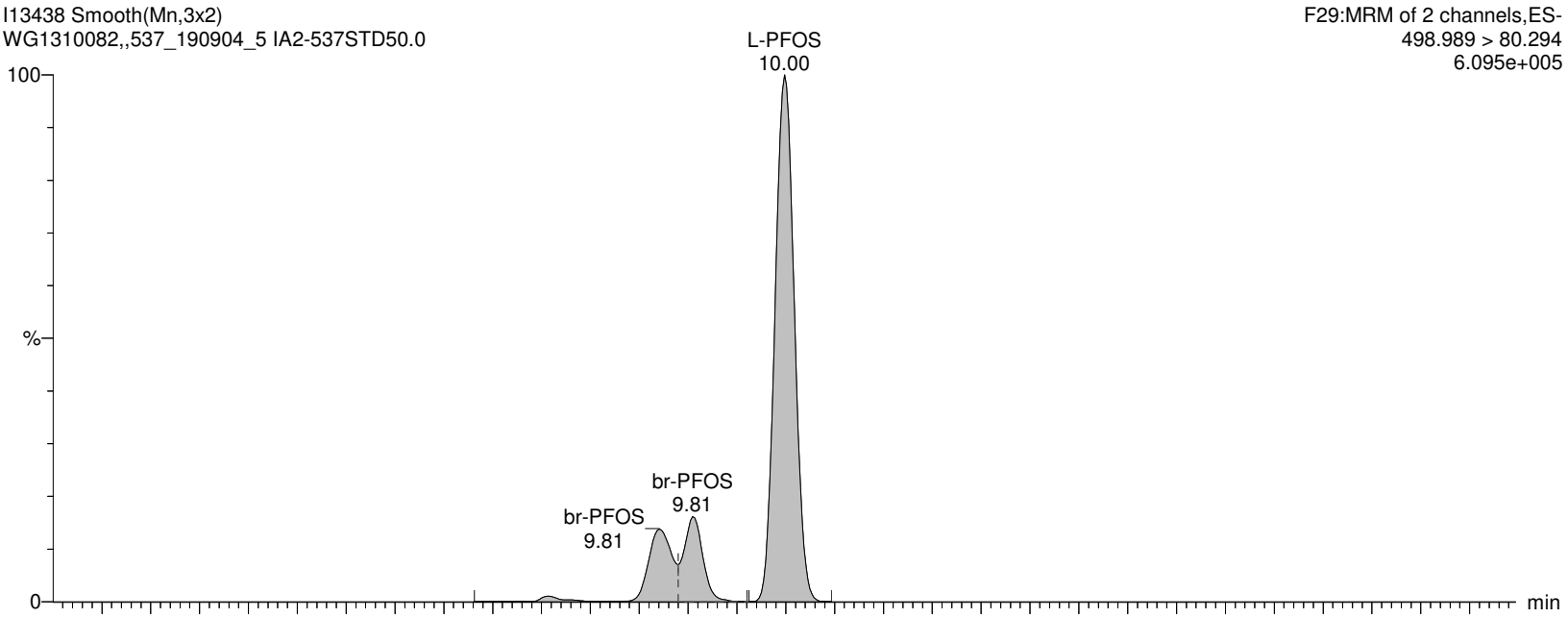

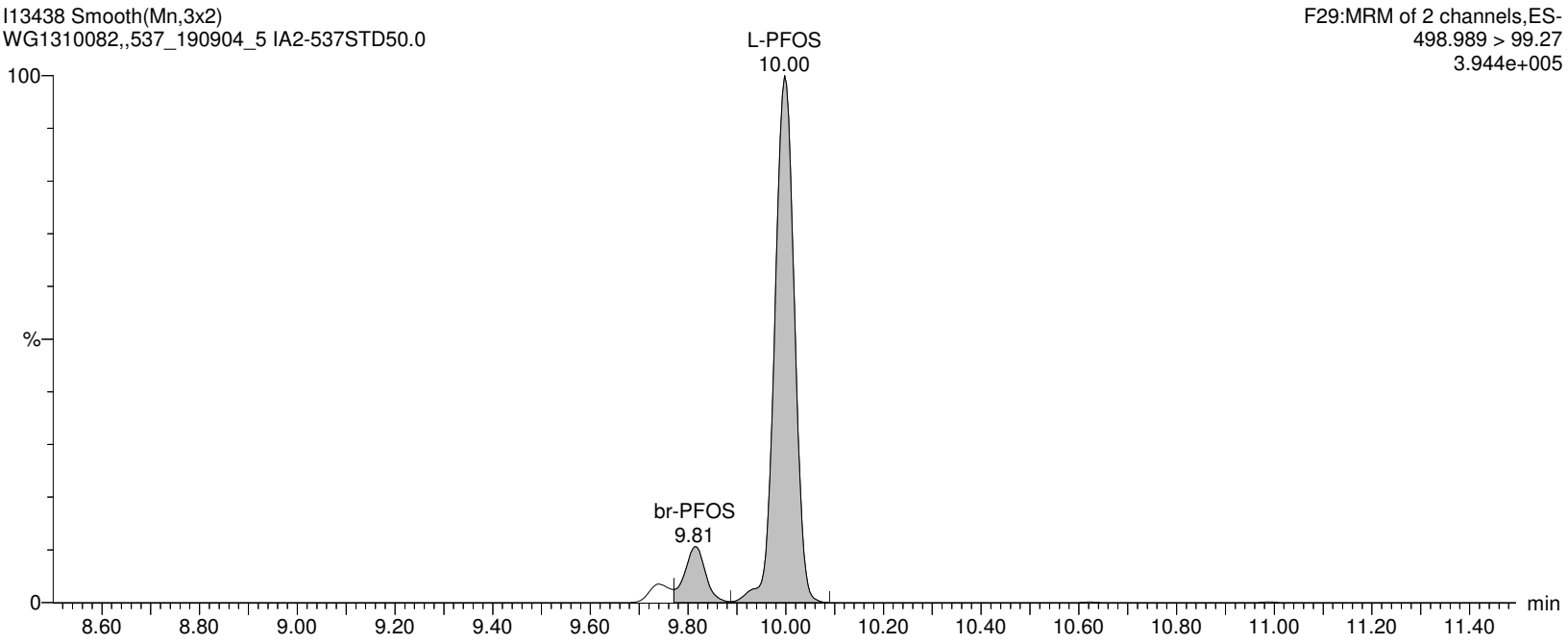

all concentration units in (ng/mL)

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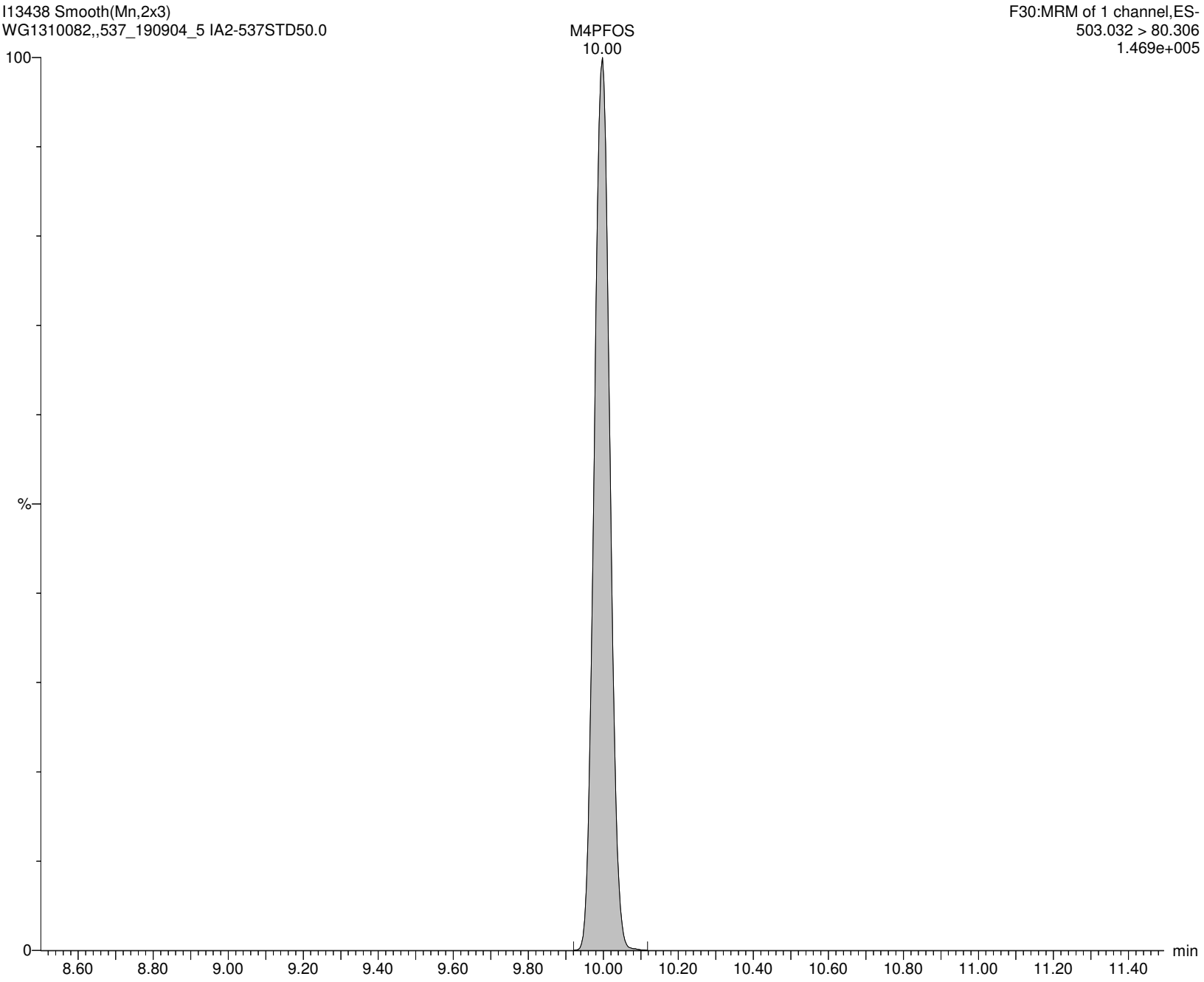

all concentration units in (ng/mL)

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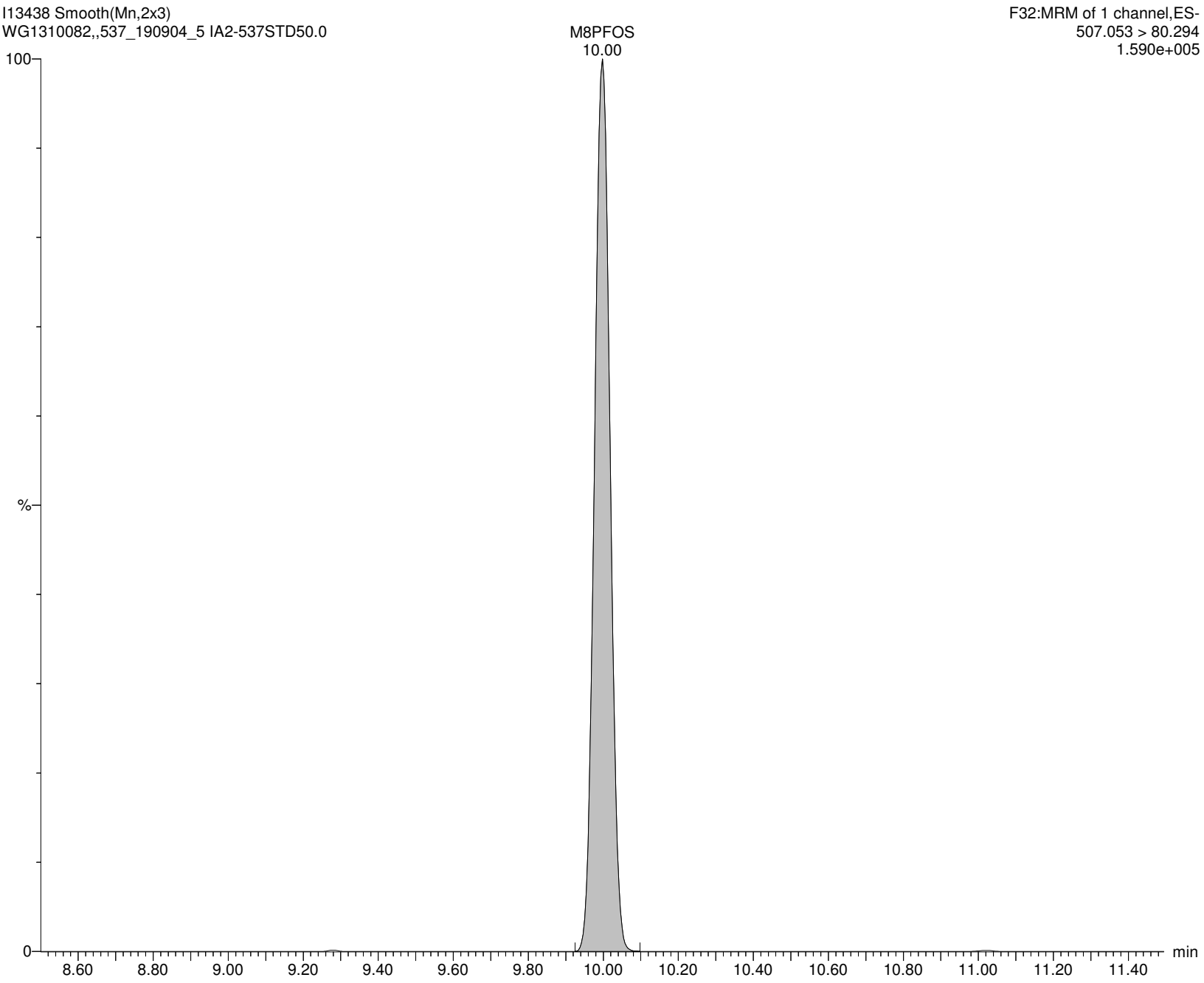

all concentration units in (ng/mL)

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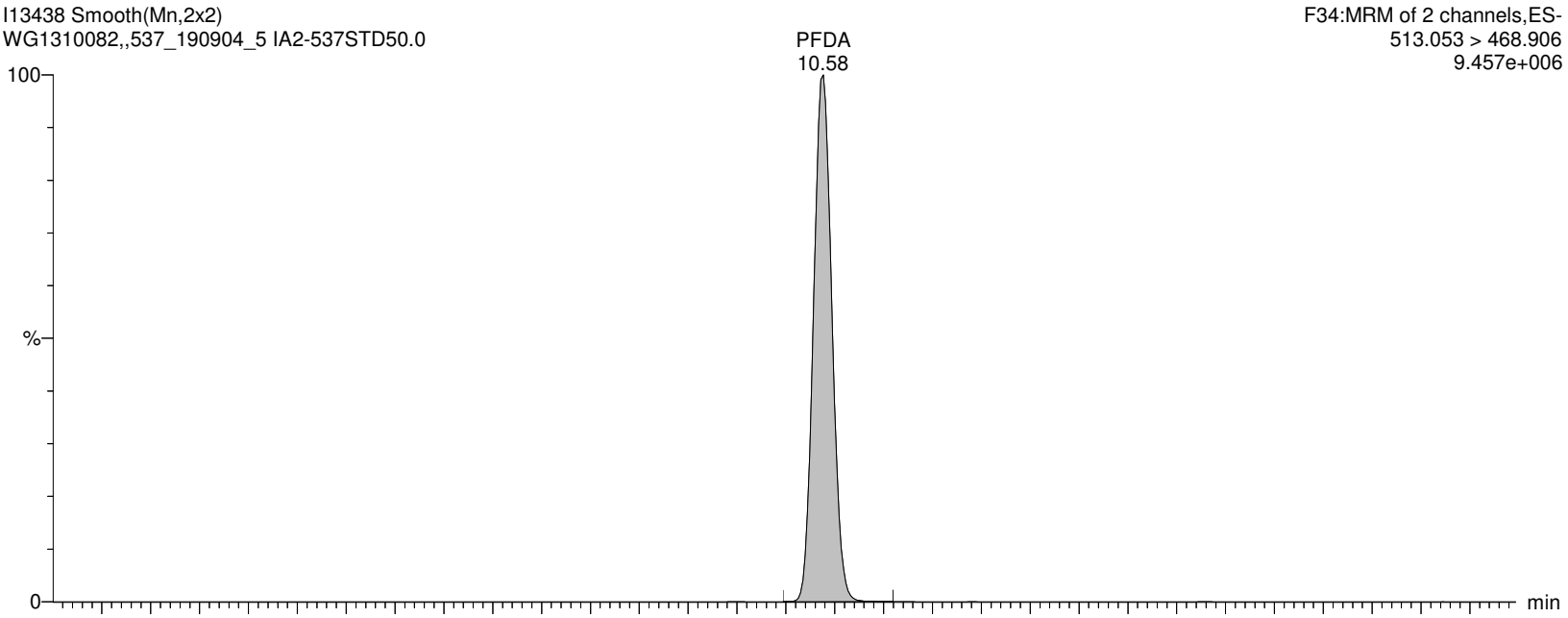

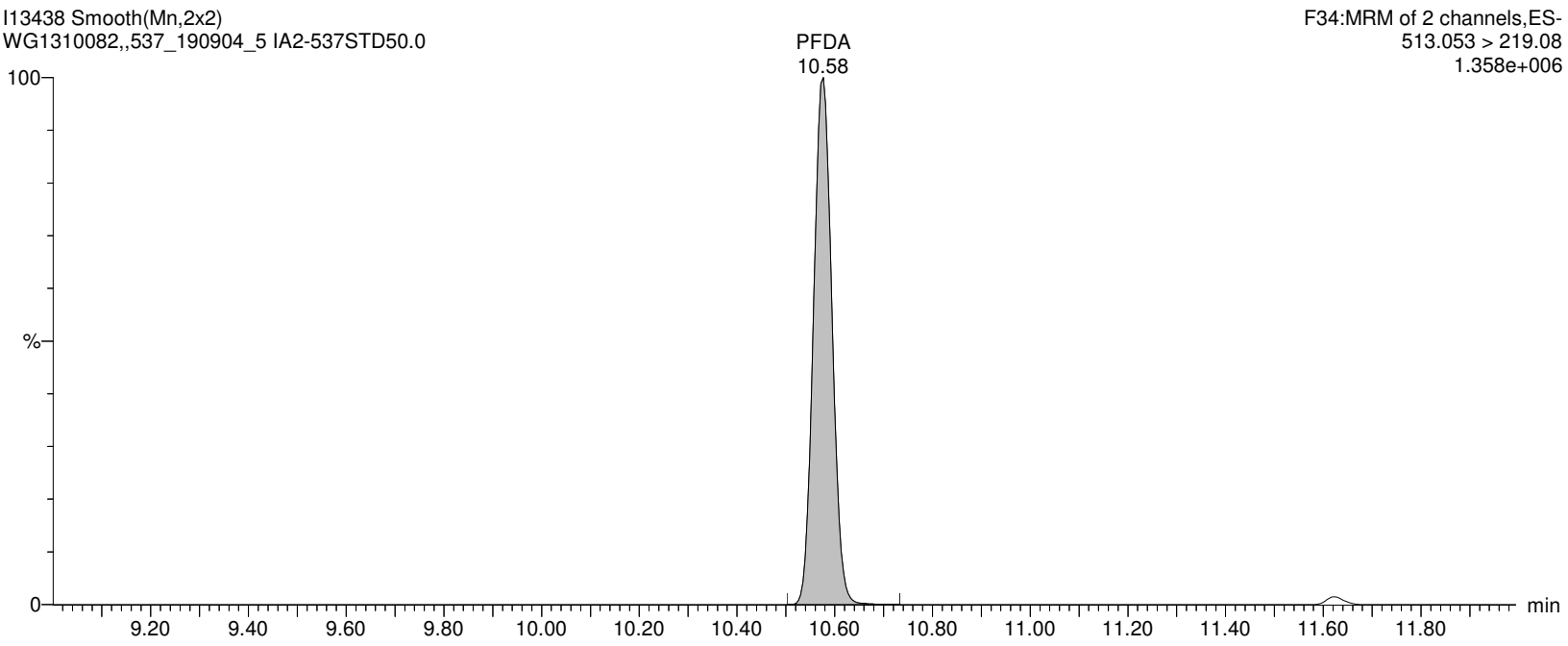

all concentration units in (ng/mL)

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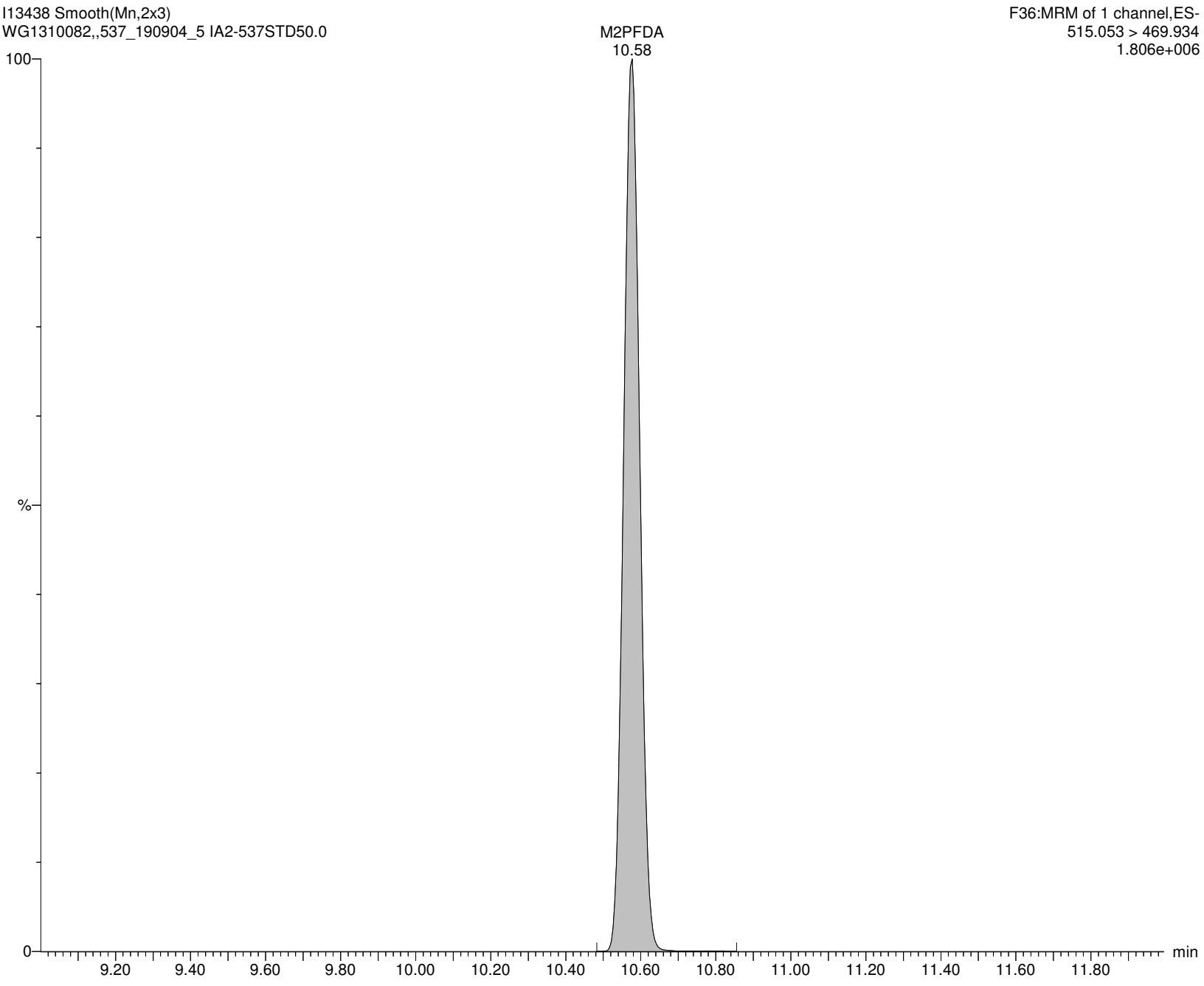

all concentration units in (ng/mL)

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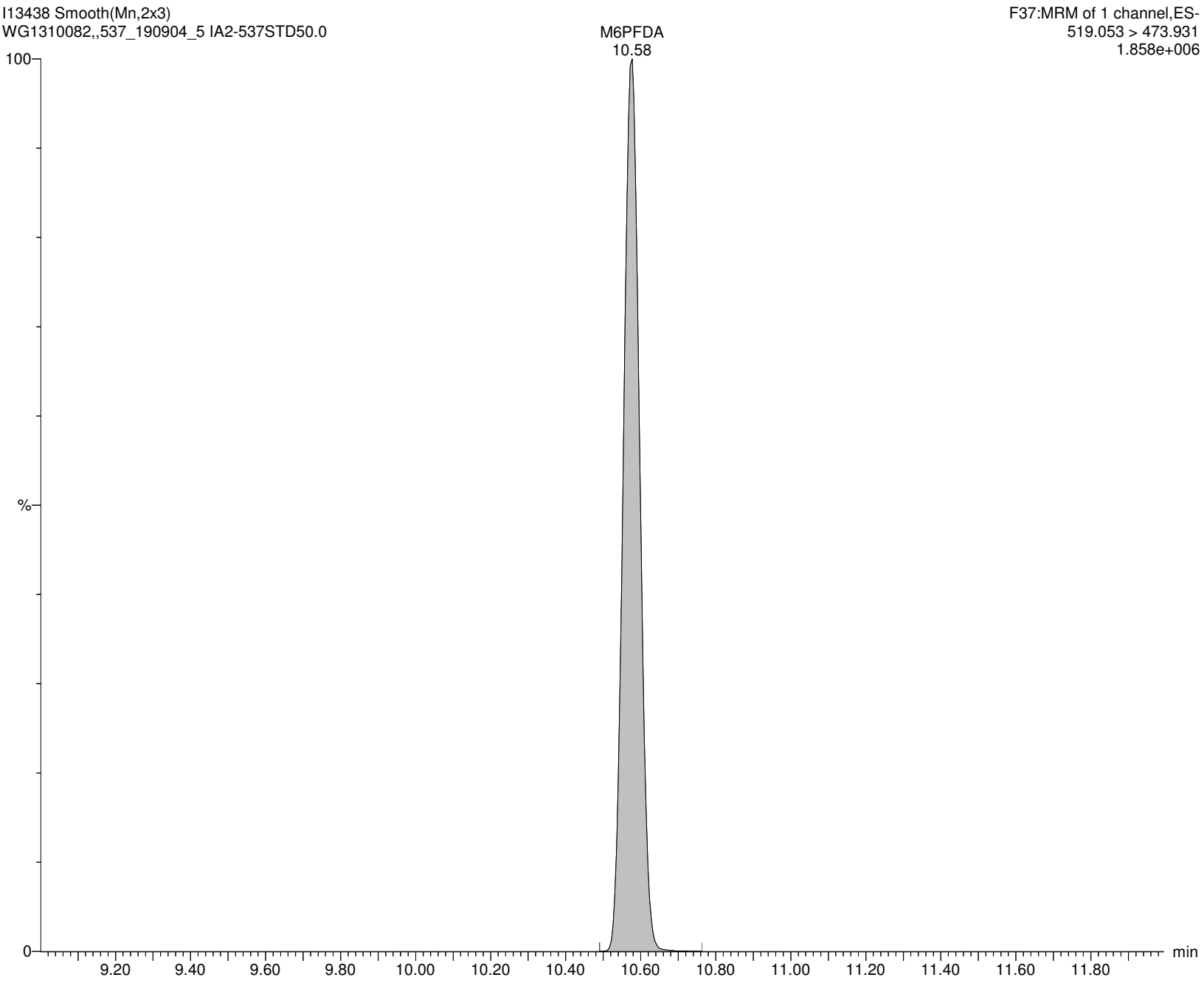

all concentration units in (ng/mL)

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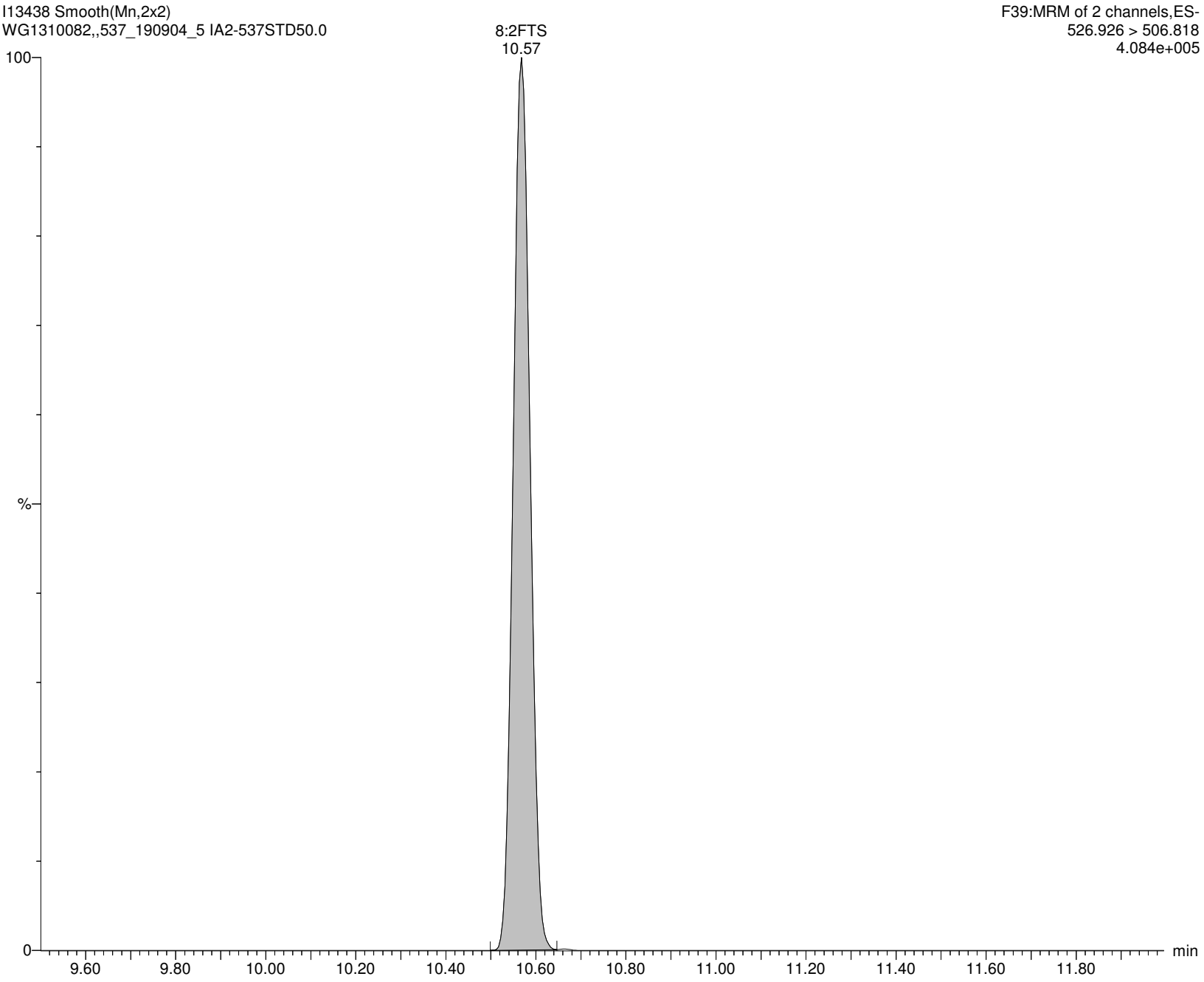

all concentration units in (ng/mL)

Alpha Analytical Inc.
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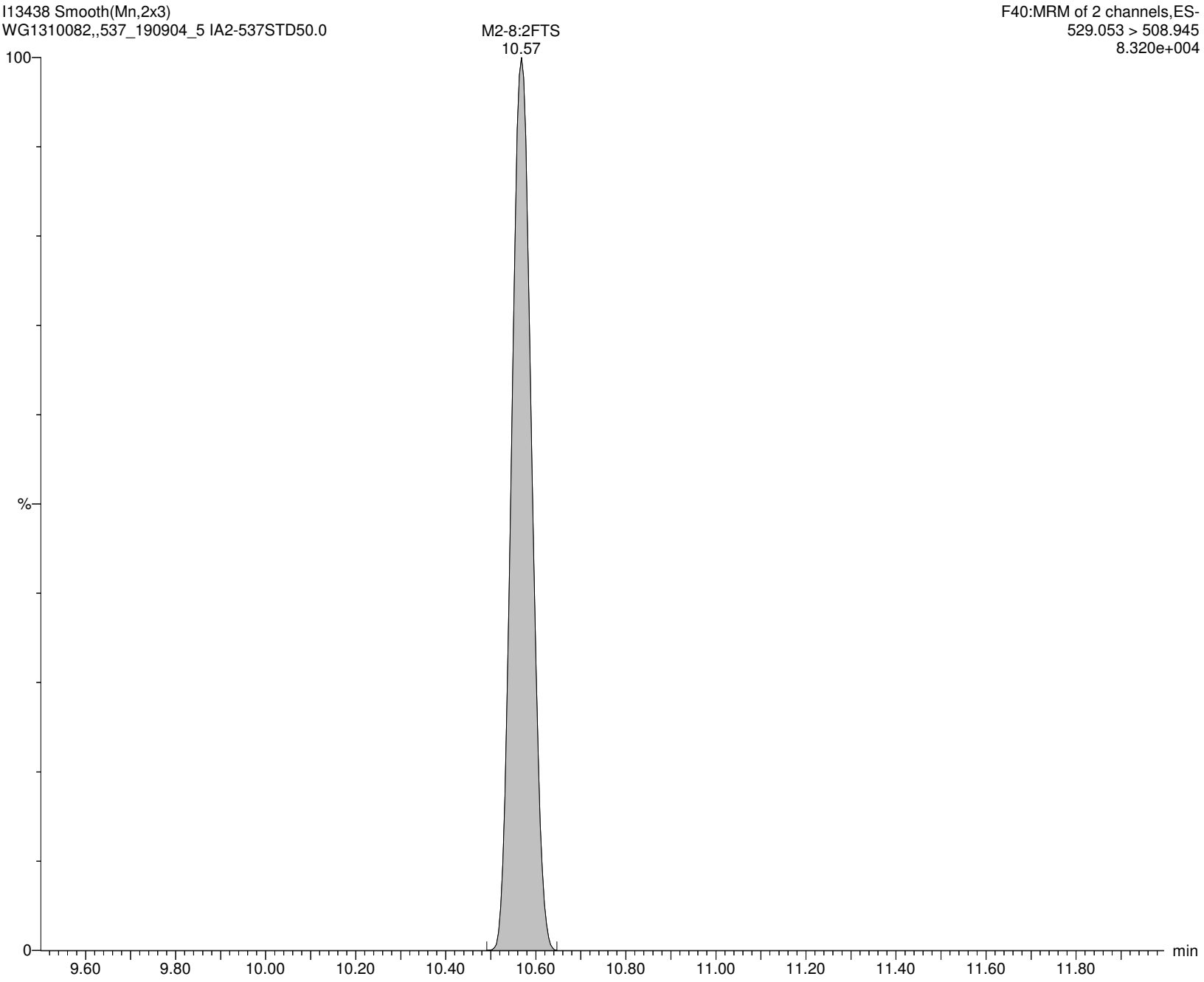

all concentration units in (ng/mL)

Alpha Analytical Inc.
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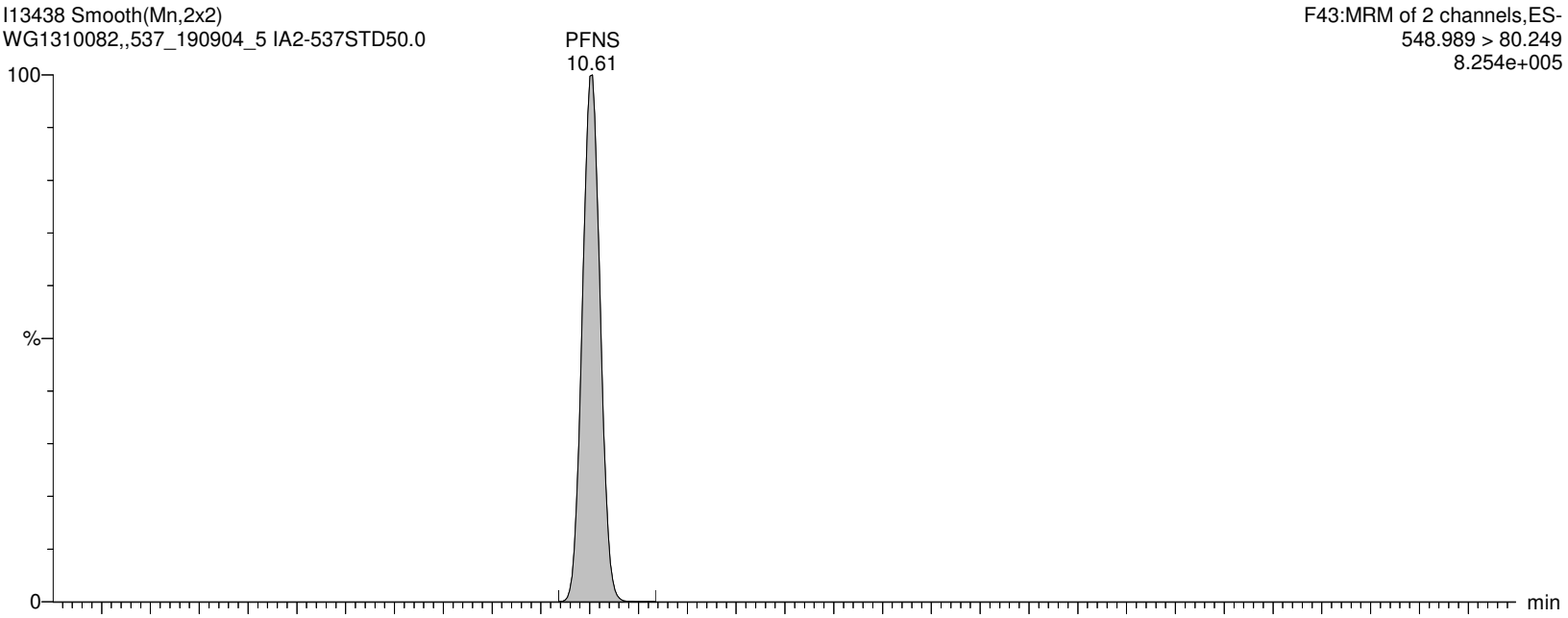

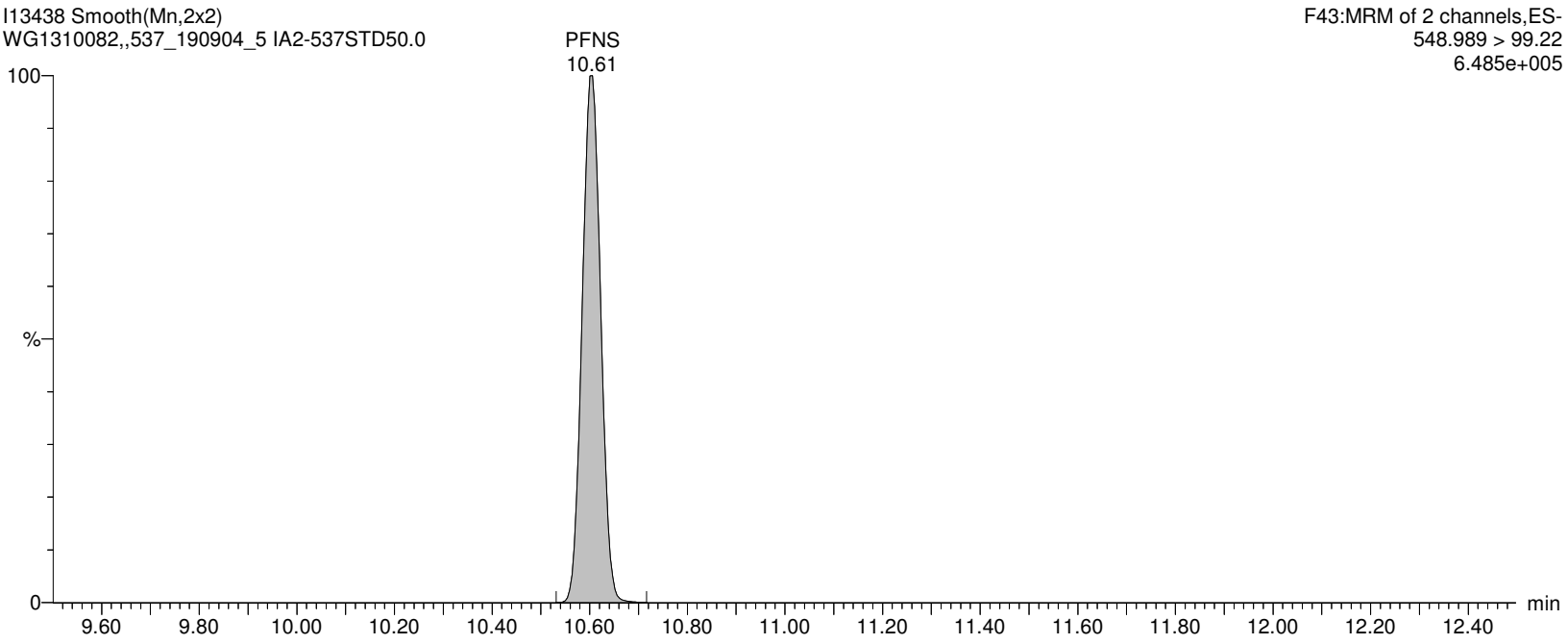

all concentration units in (ng/mL)

Alpha Analytical Inc.
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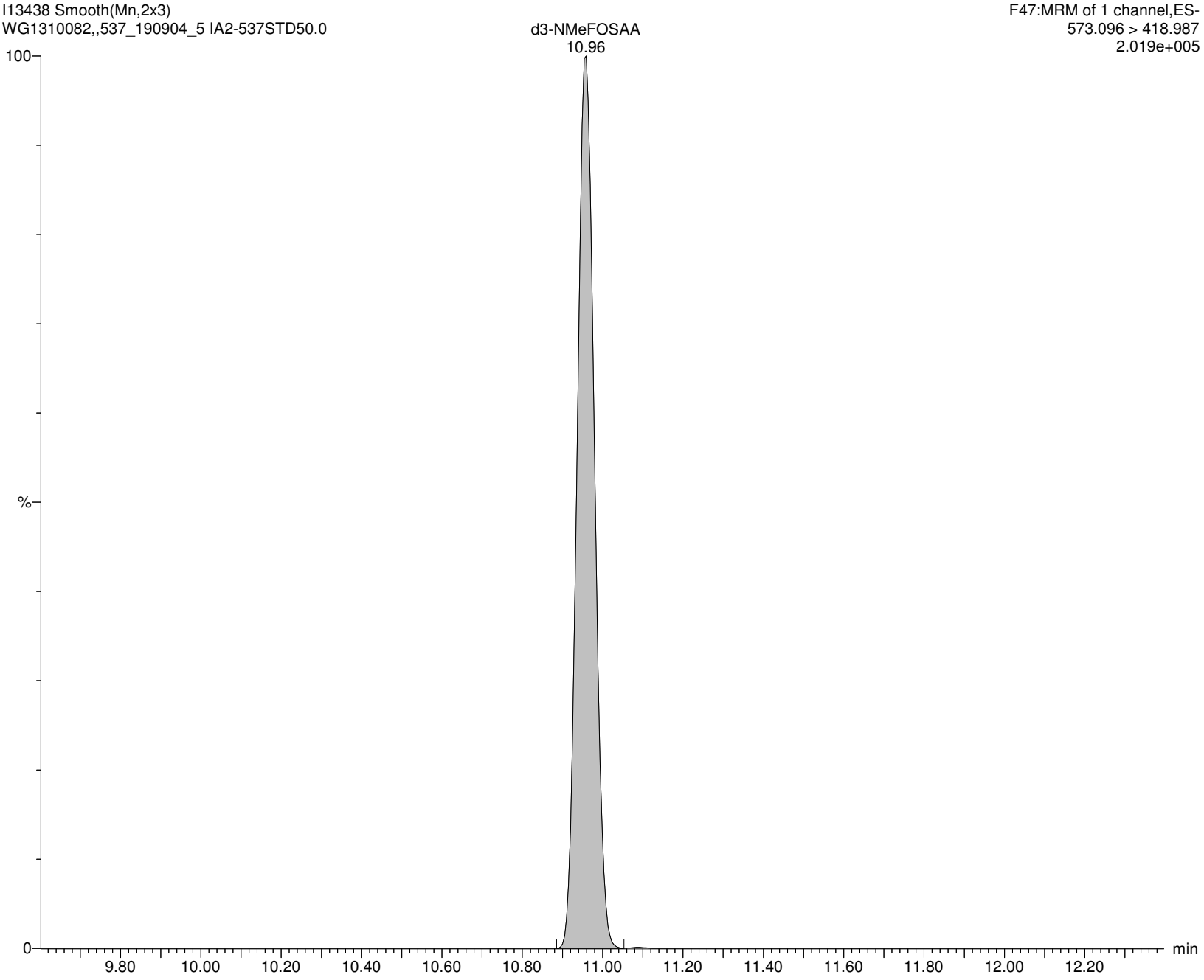

all concentration units in (ng/mL)

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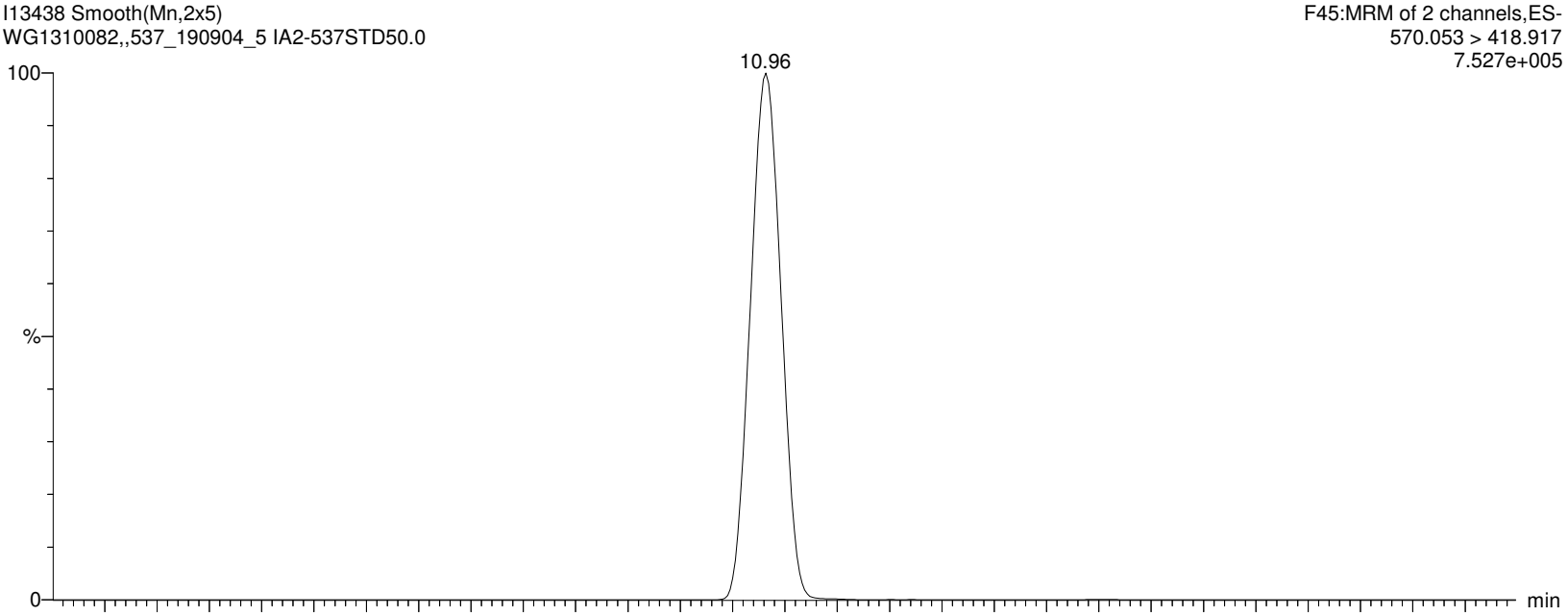

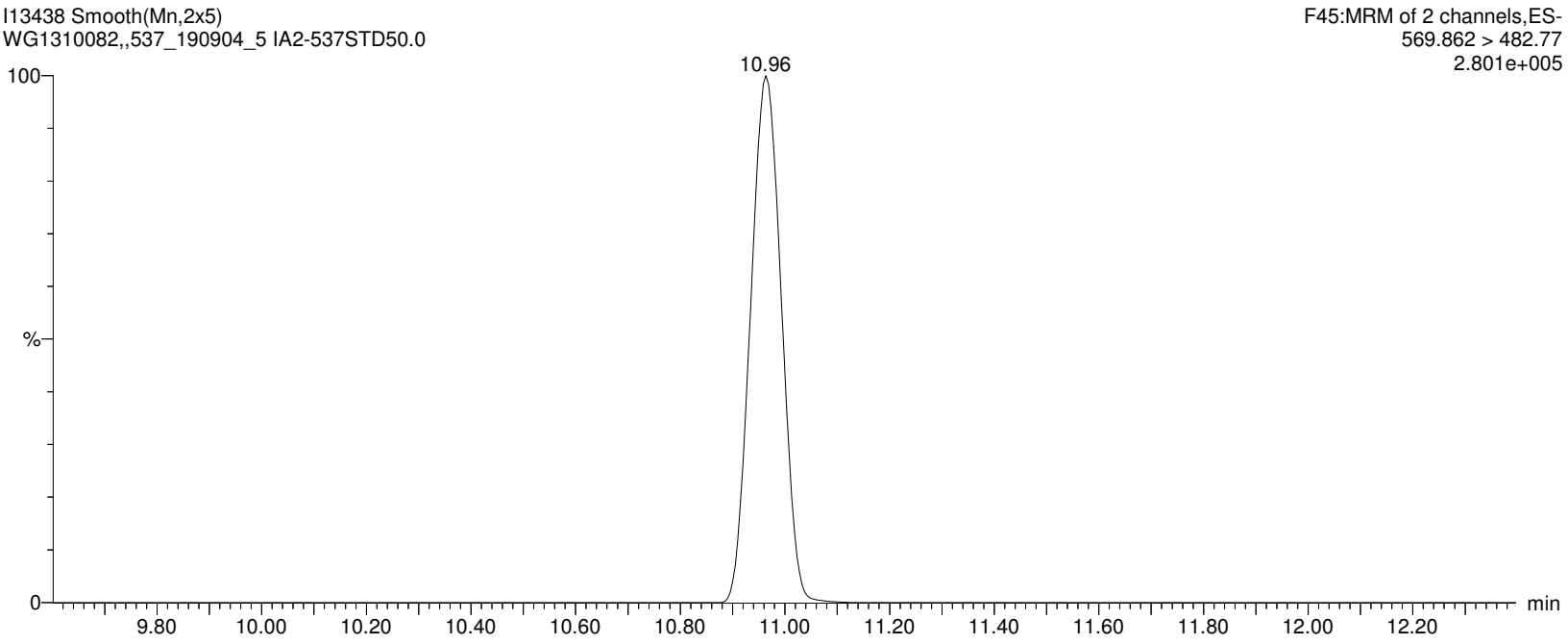

all concentration units in (ng/mL)

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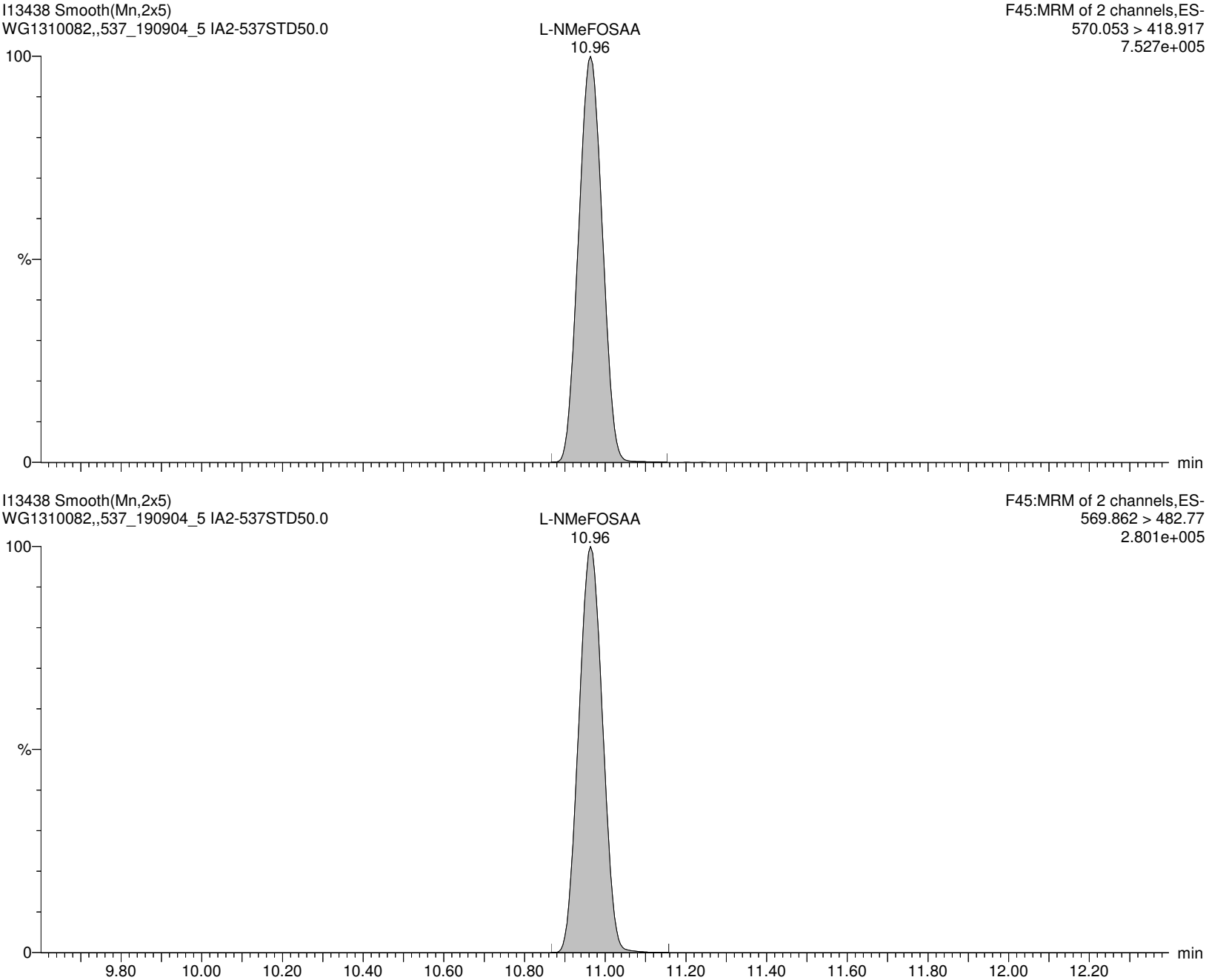

all concentration units in (ng/mL)

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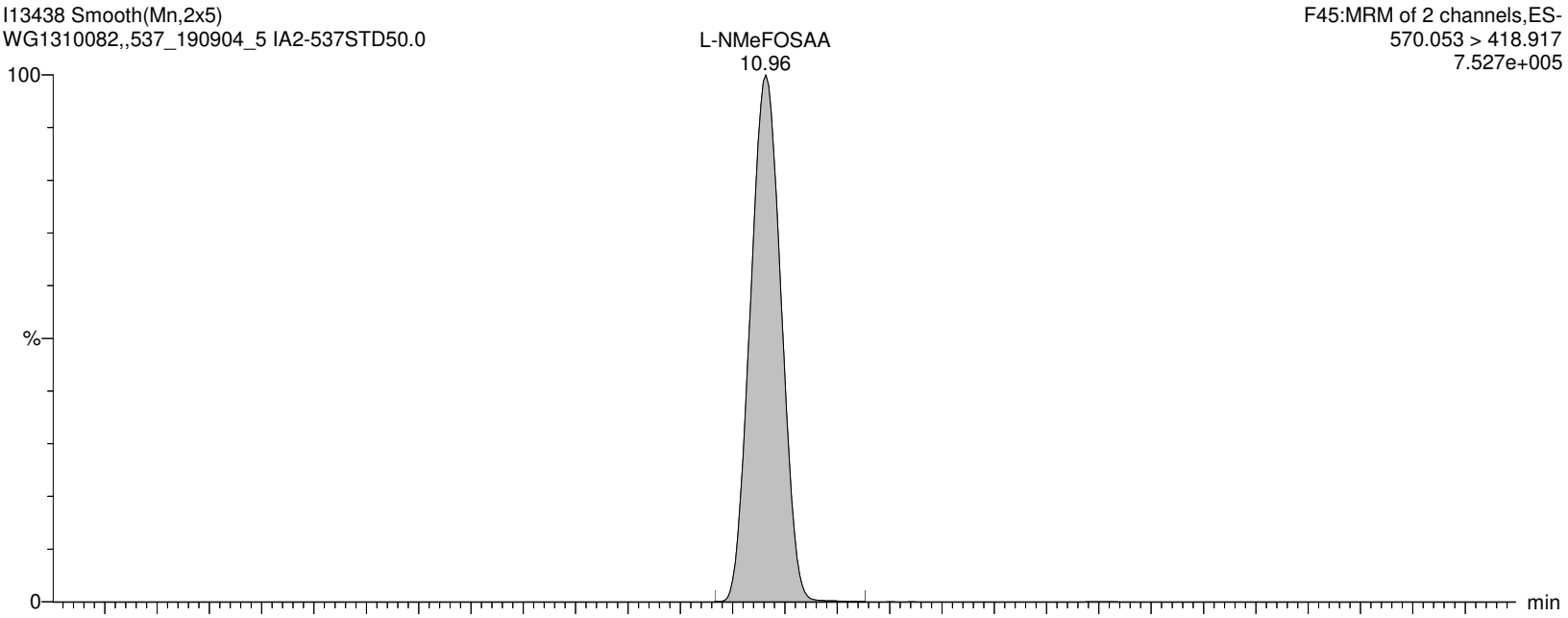

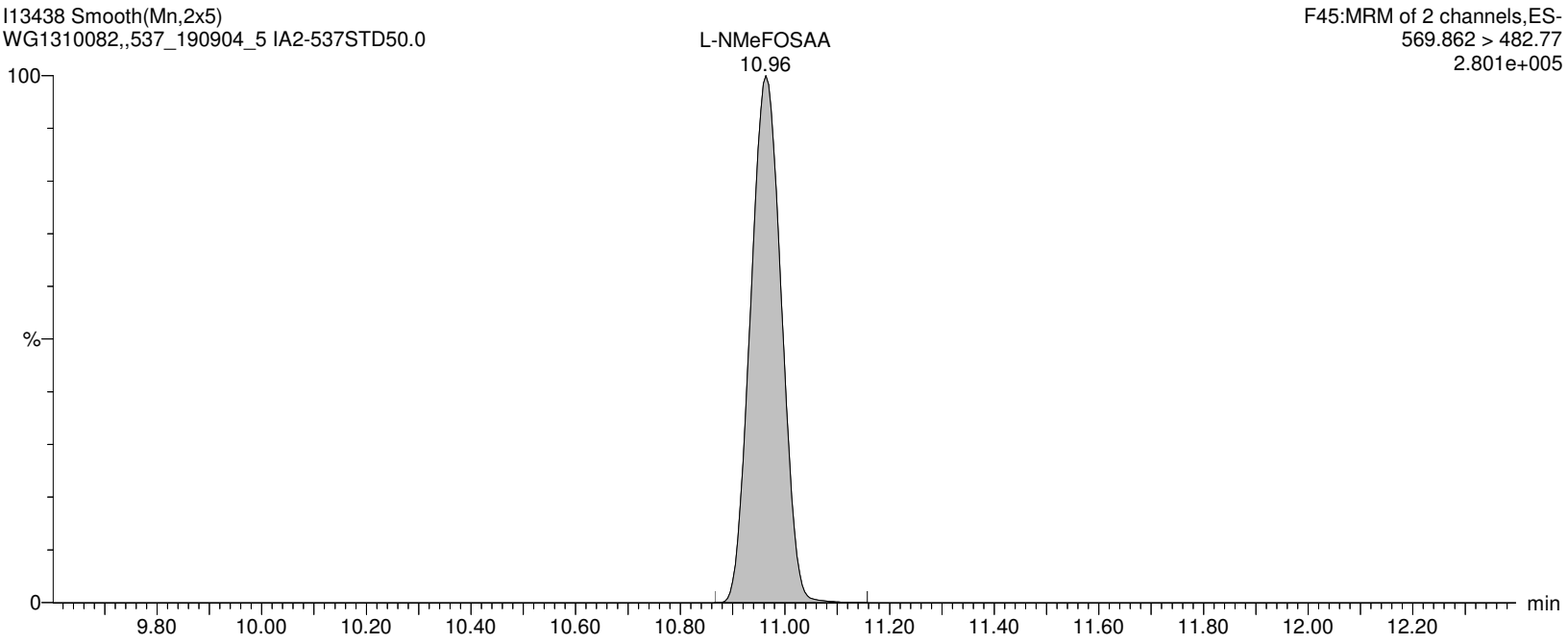

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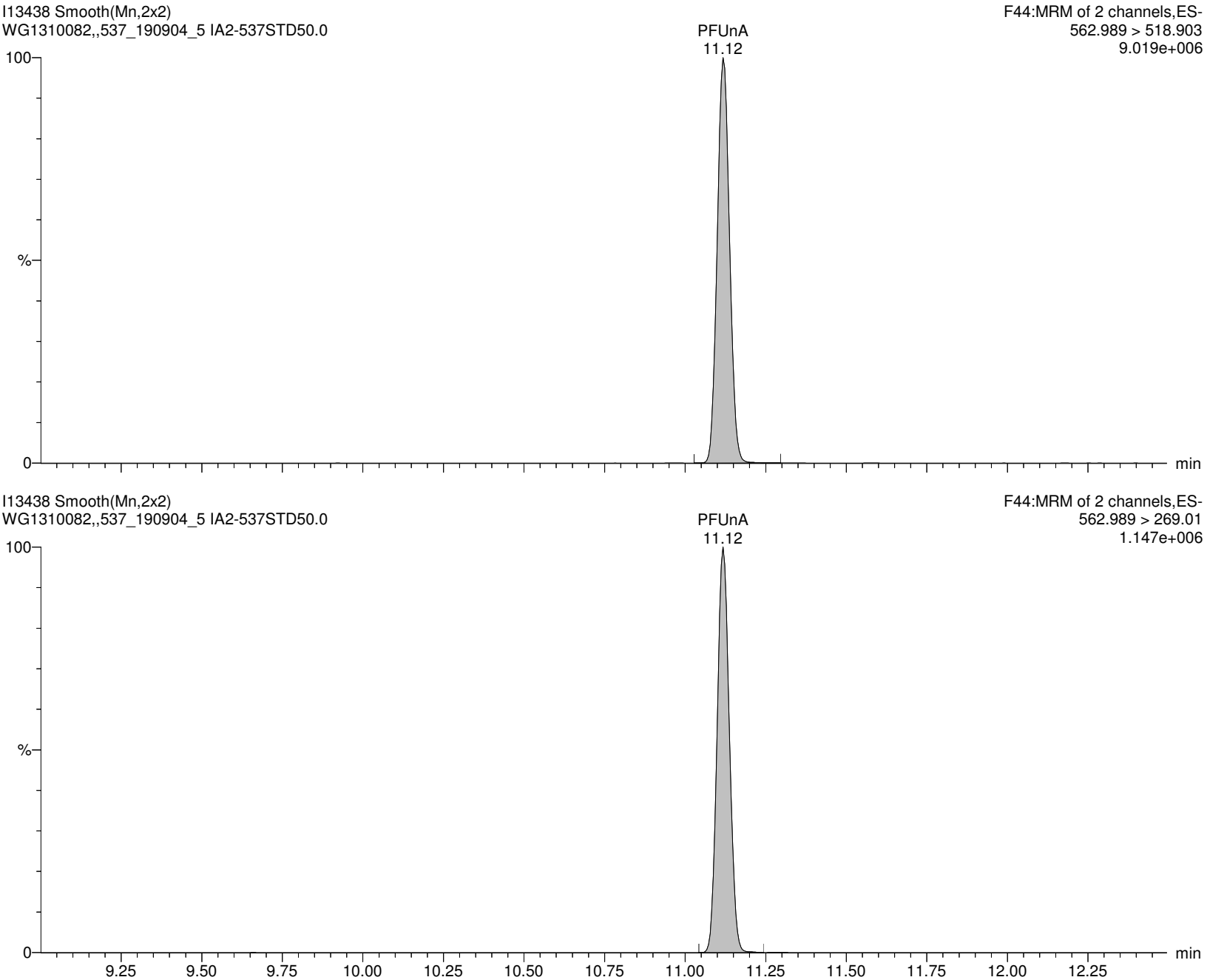

all concentration units in (ng/mL)

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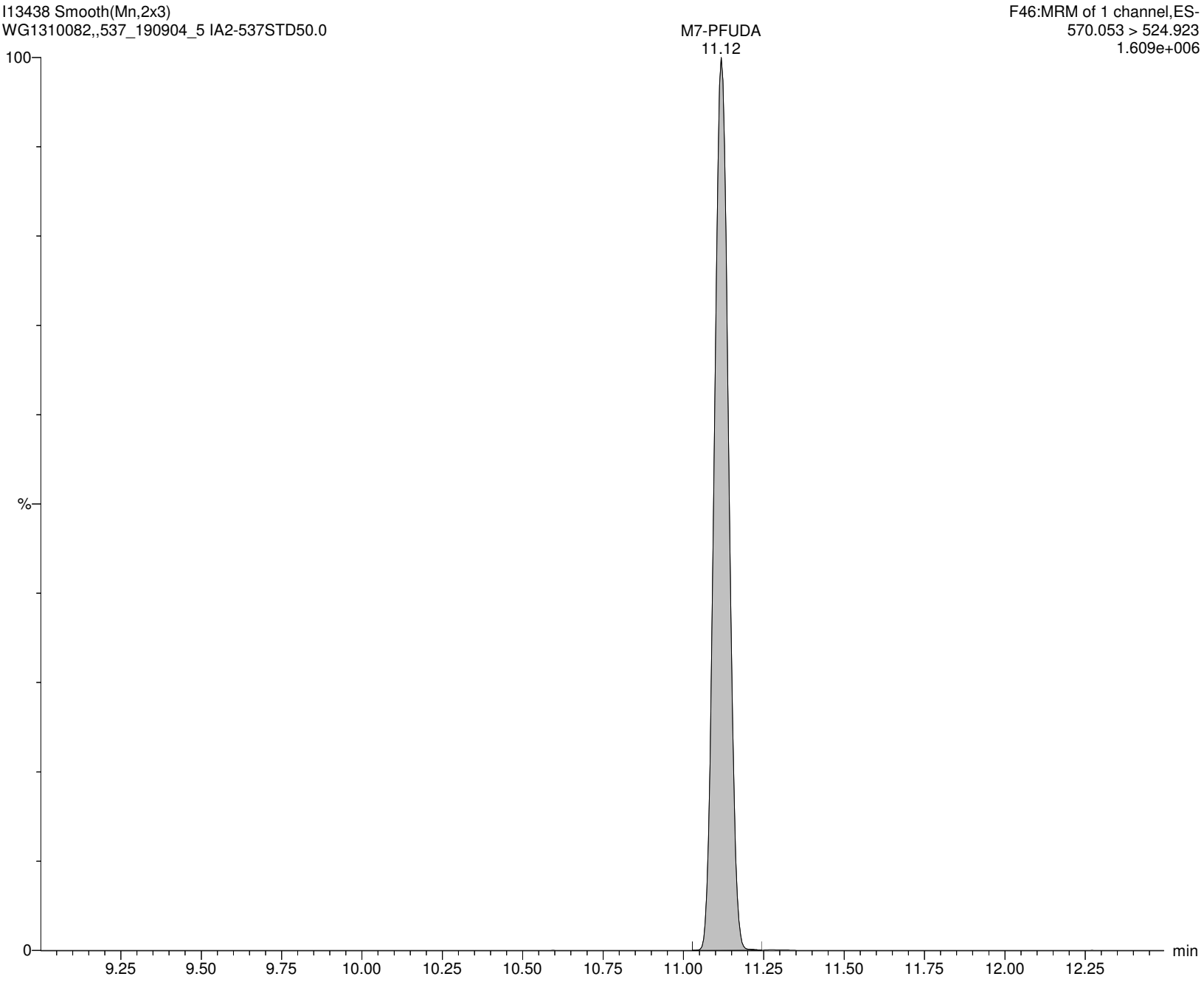

all concentration units in (ng/mL)

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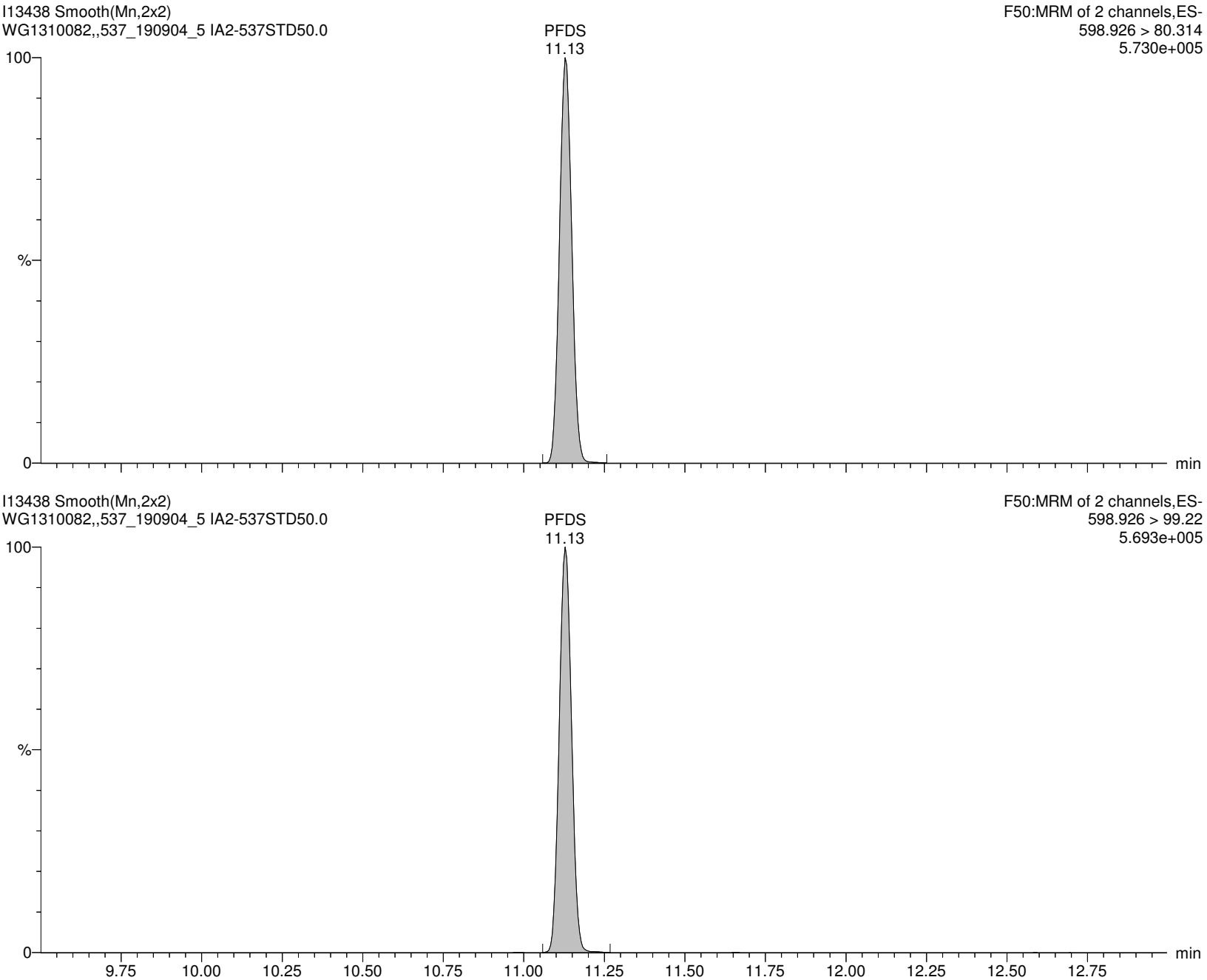

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:56 Eastern Standard Time

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ID: IA2-537STD50.0
Date: 18-Nov-2019
Time: 11:43:24
Description: WG1310082,,537_190904_5
User: LCMS02:JW
Vial: 1:A,6
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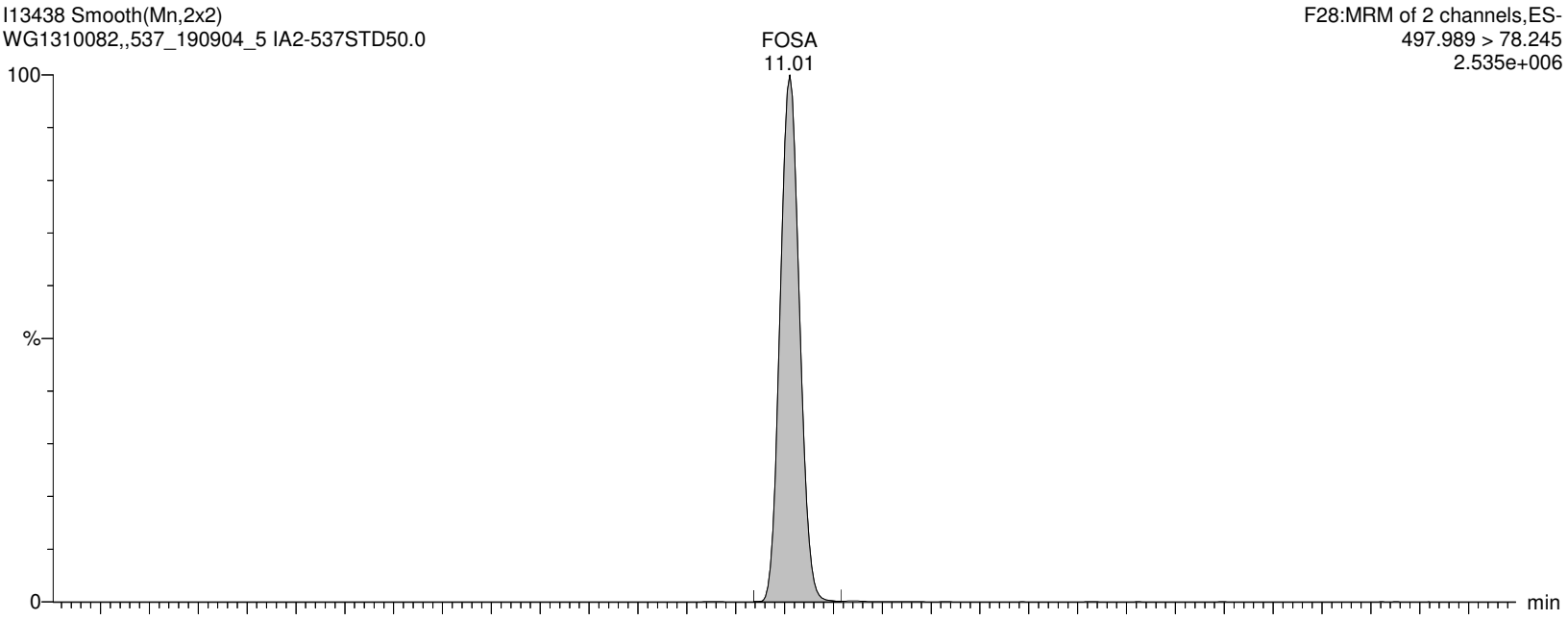

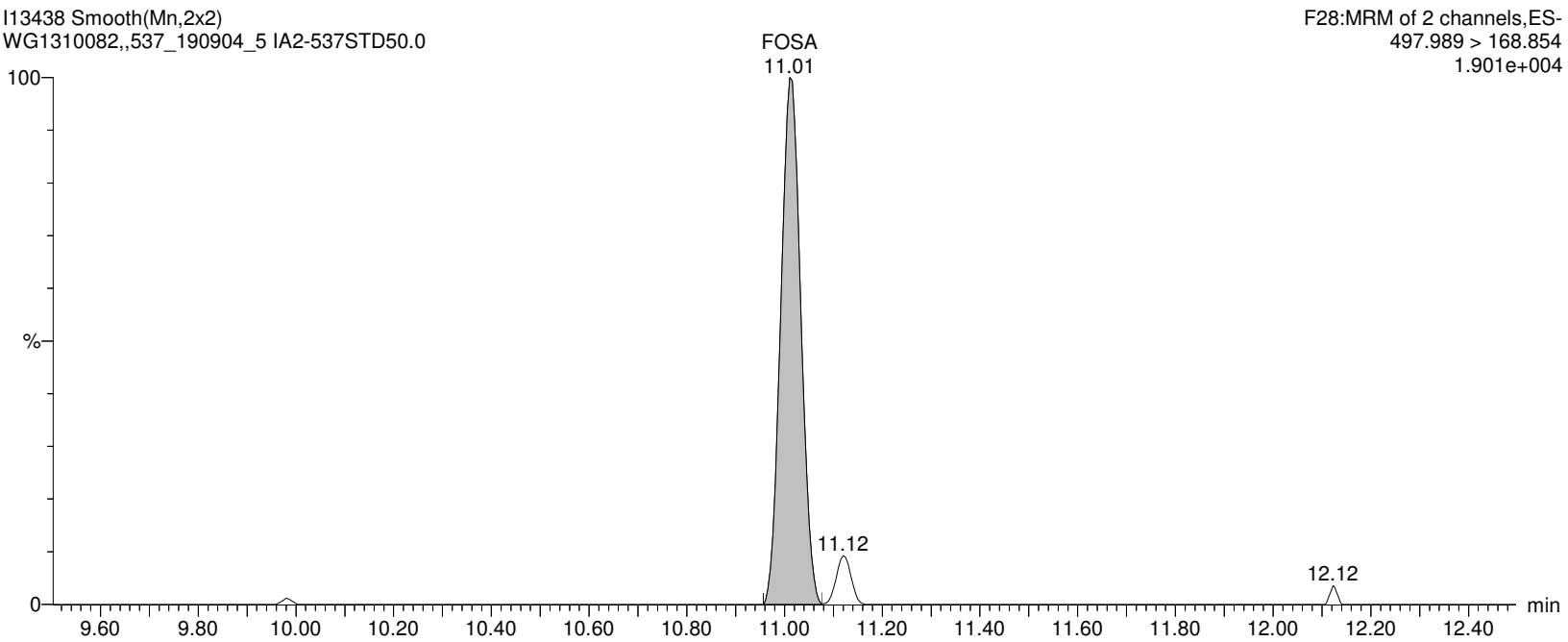

all concentration units in (ng/mL)

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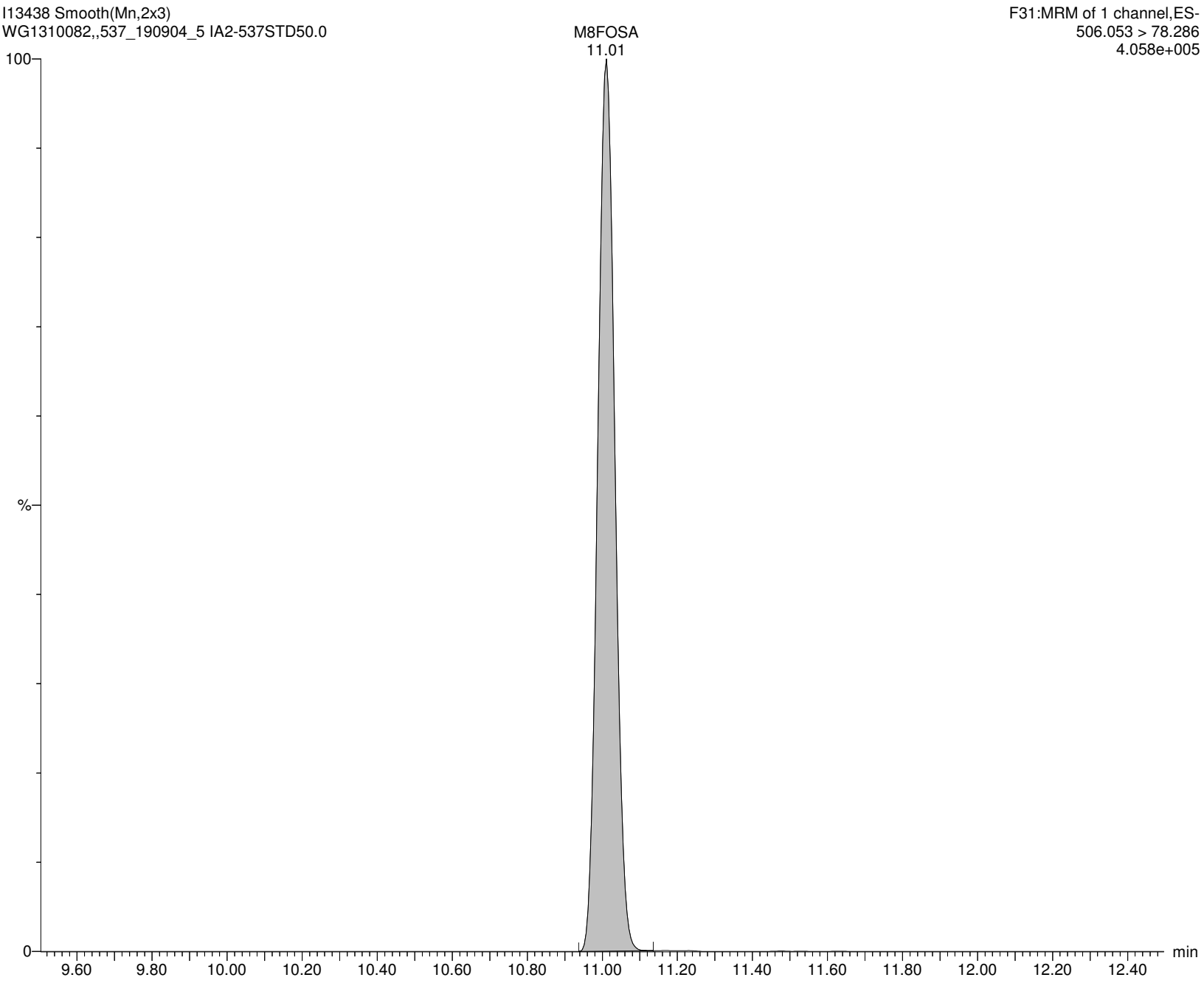

all concentration units in (ng/mL)

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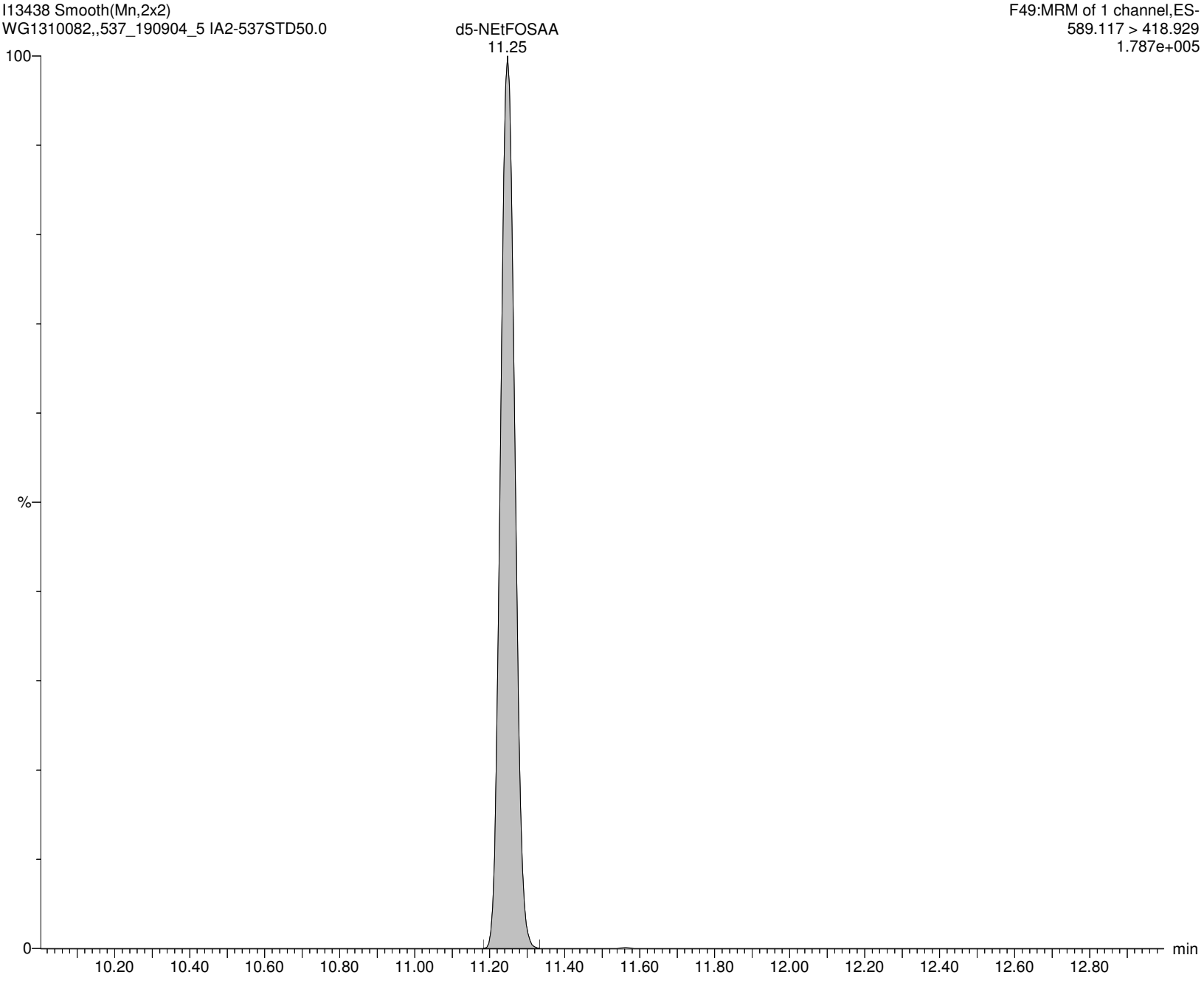

all concentration units in (ng/mL)

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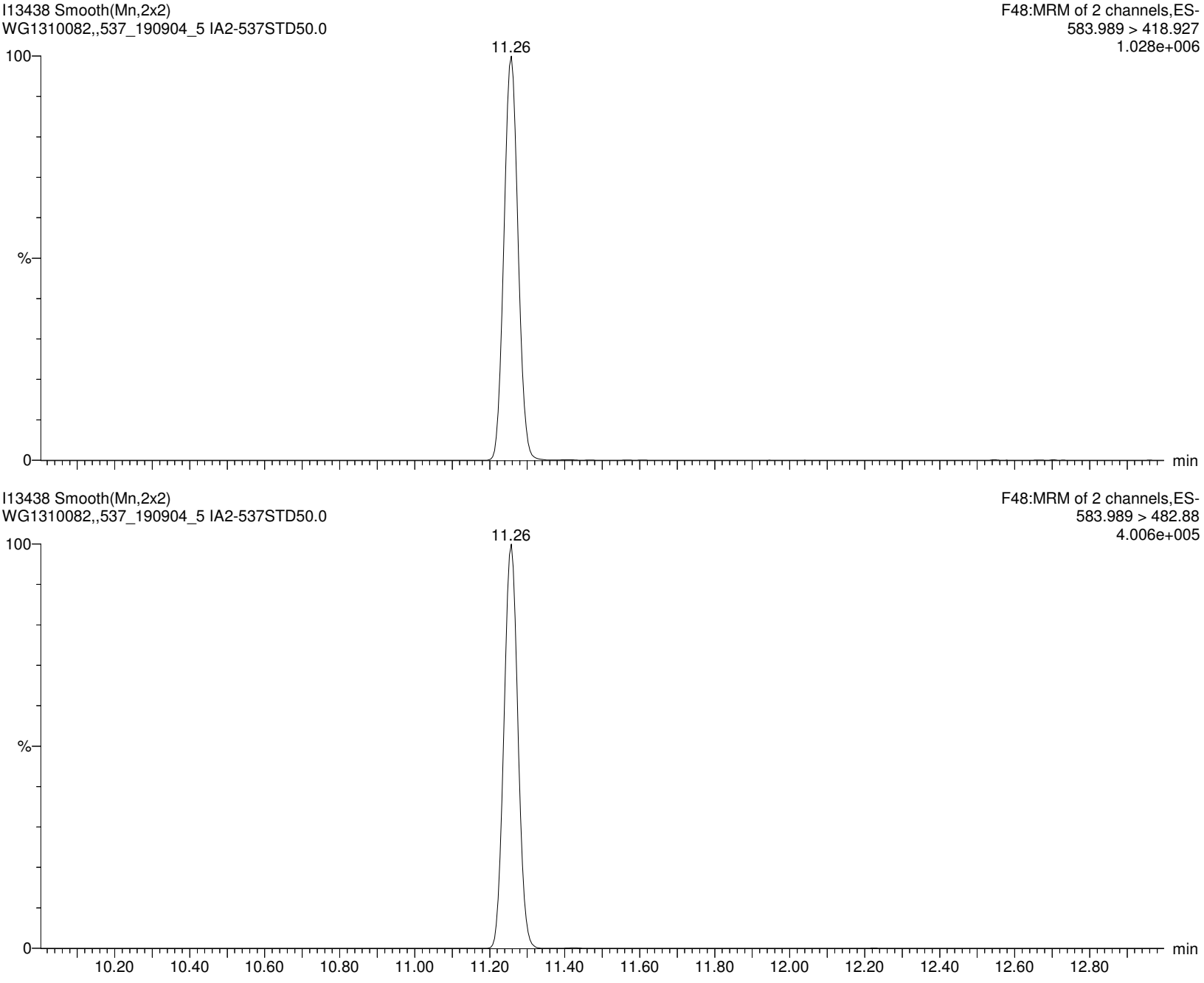

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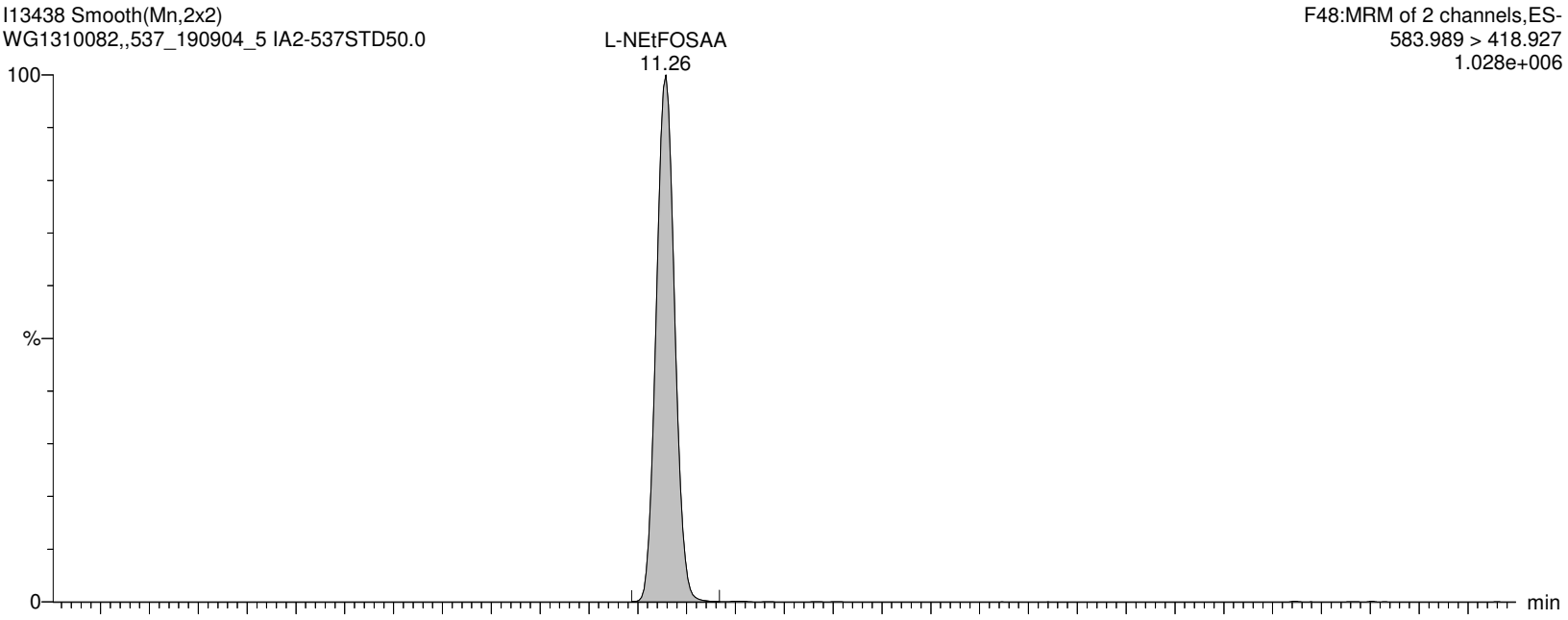

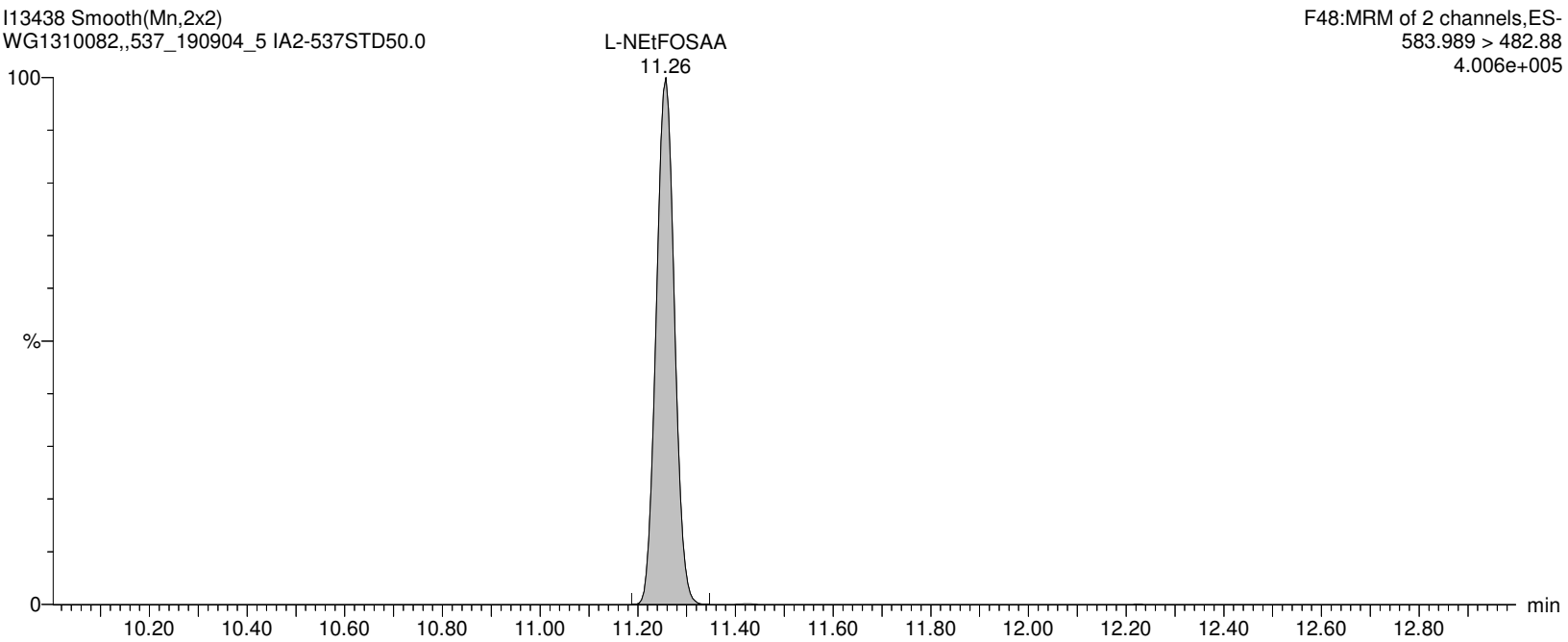

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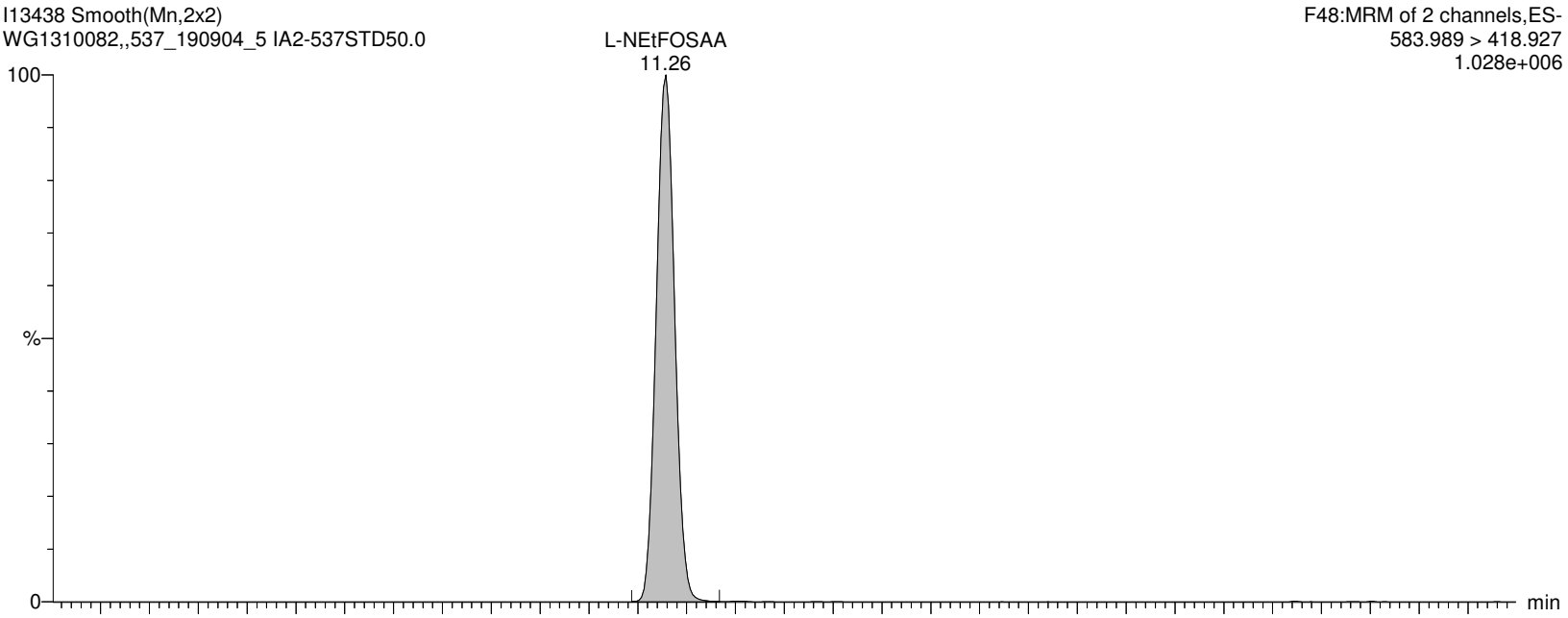

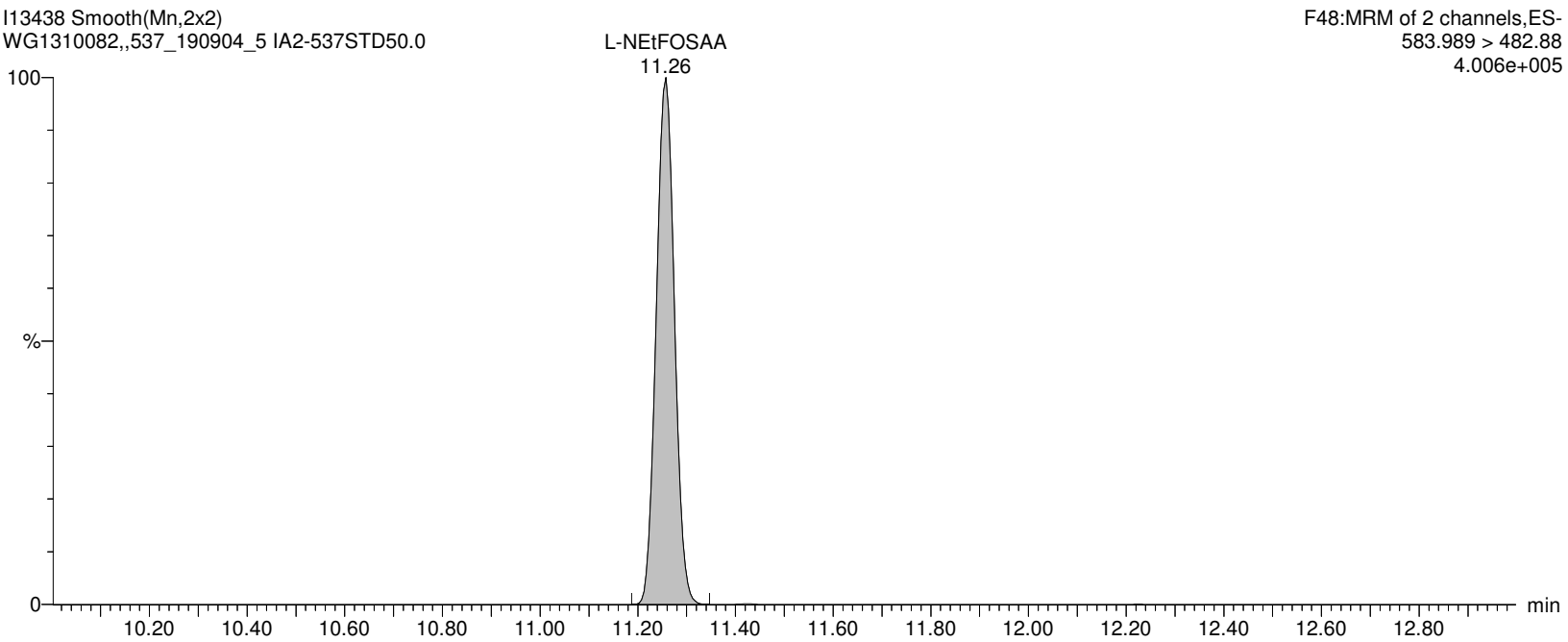

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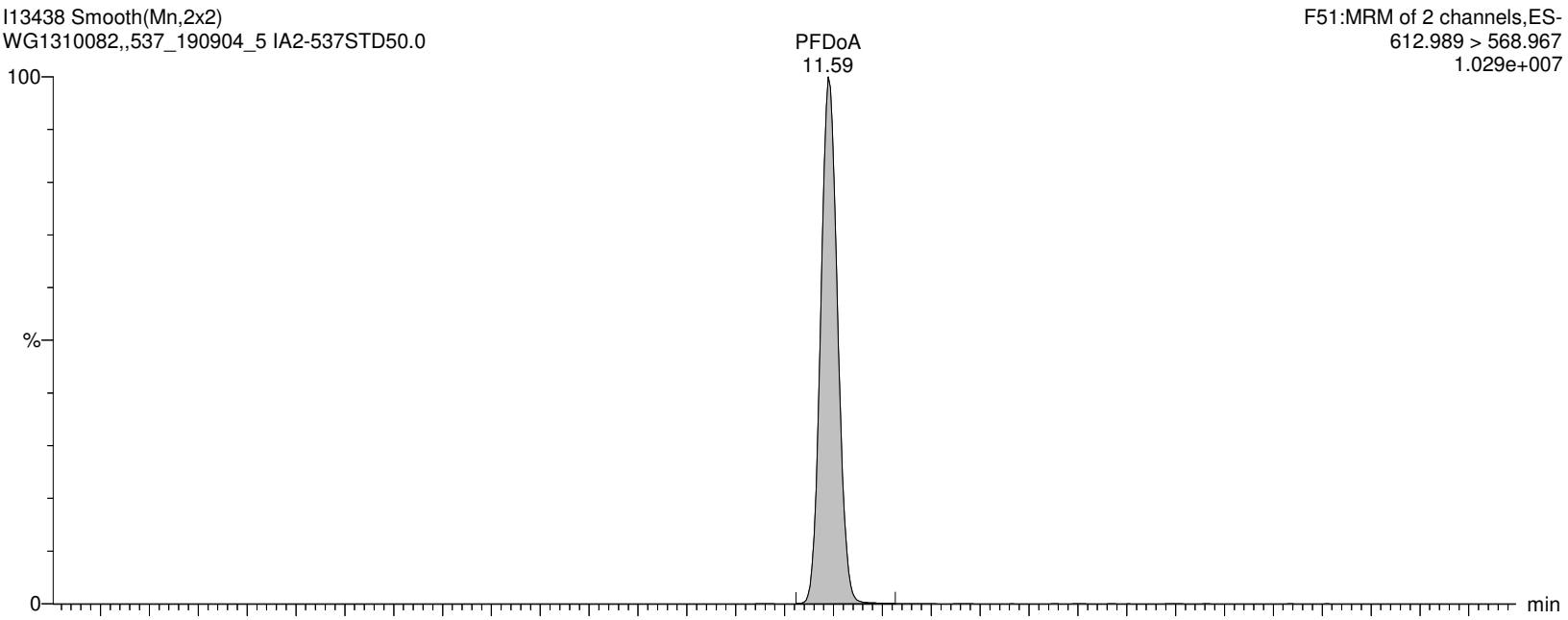

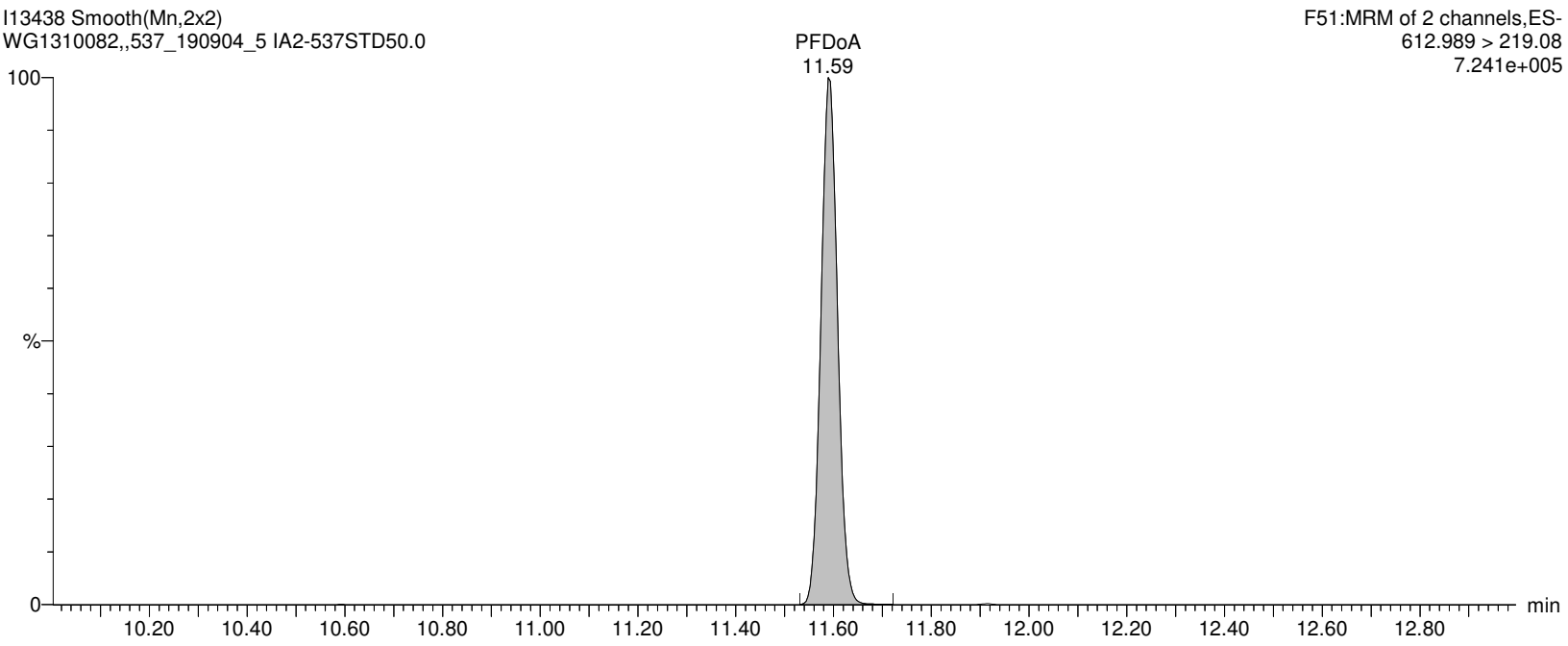

all concentration units in (ng/mL)

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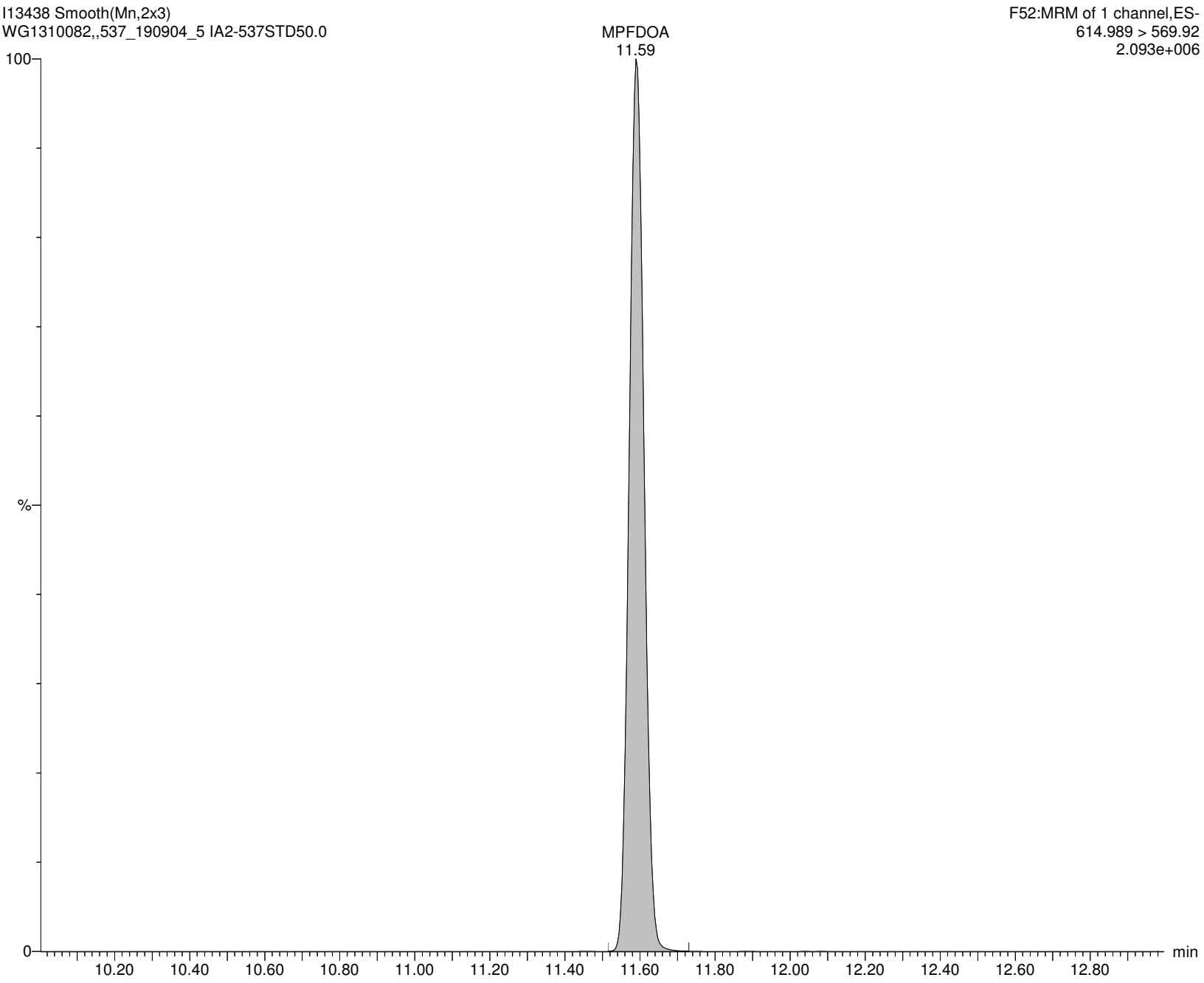

all concentration units in (ng/mL)

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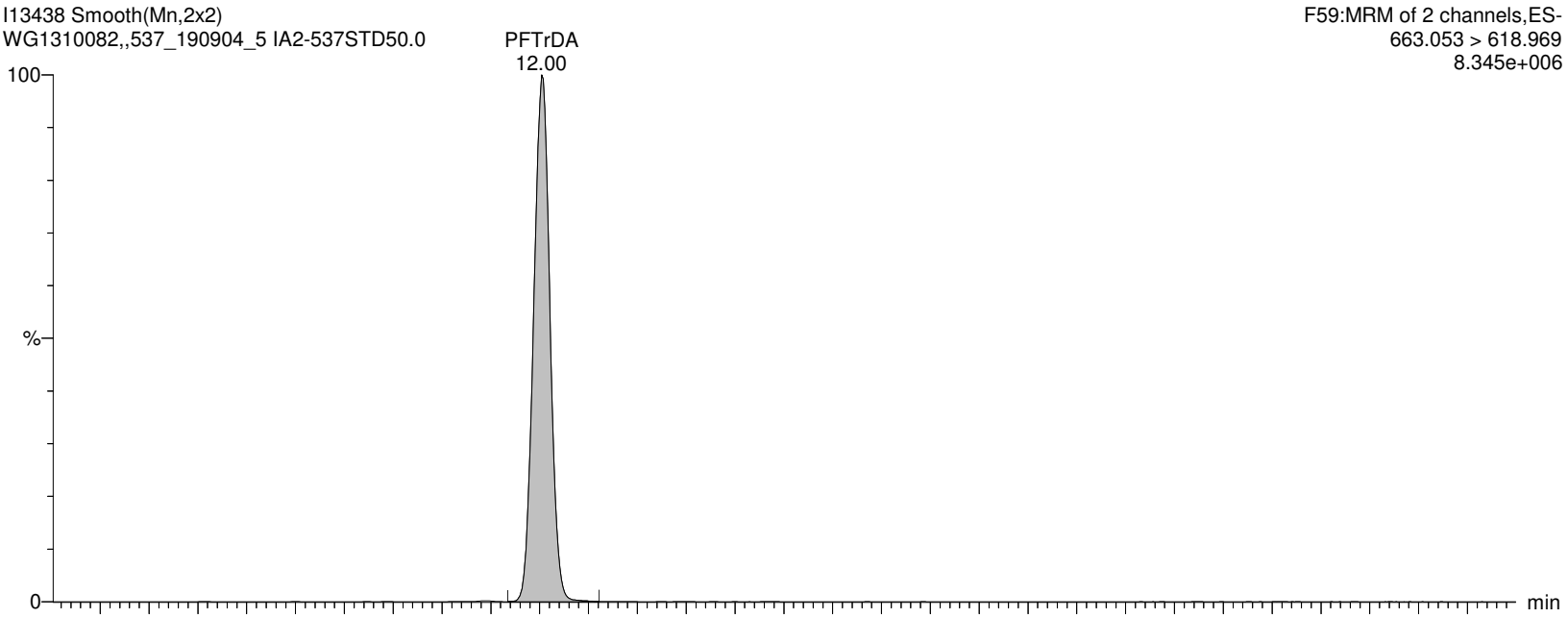

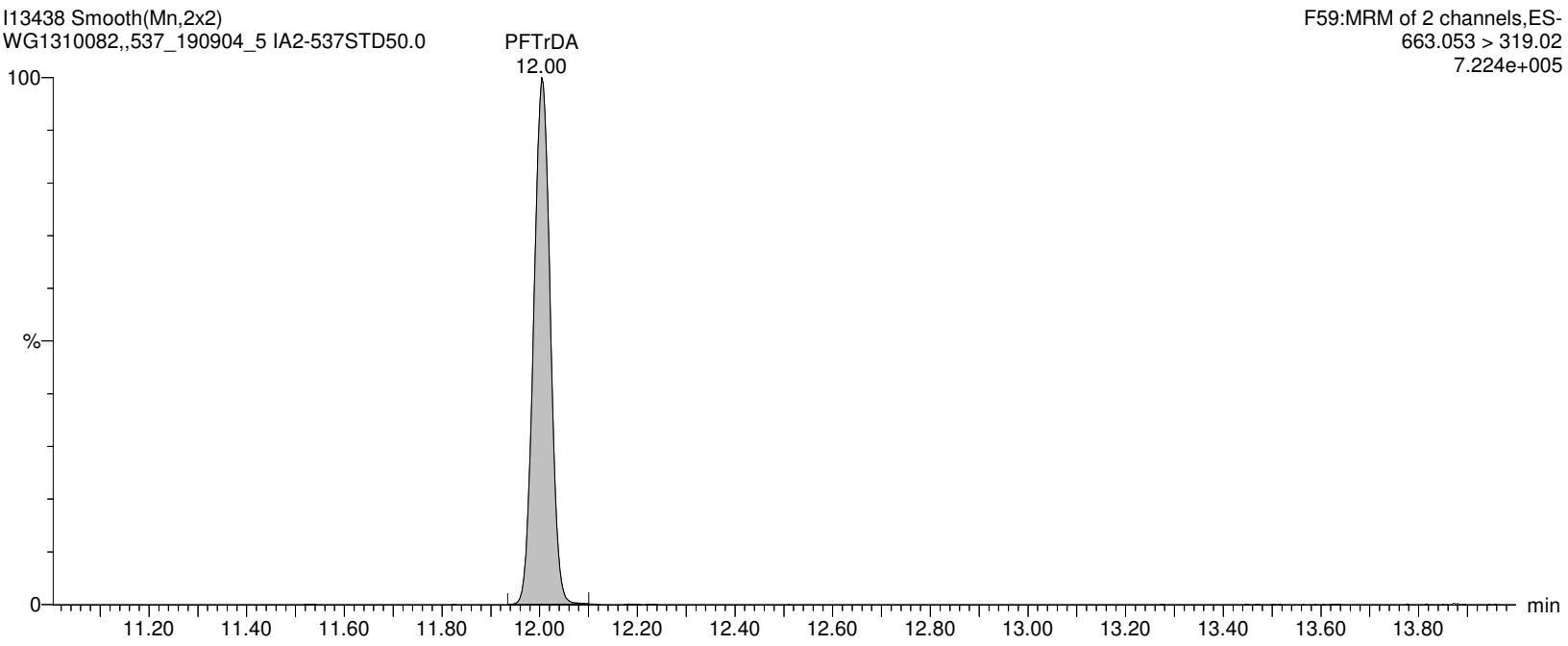

all concentration units in (ng/mL)

Alpha Analytical Inc.
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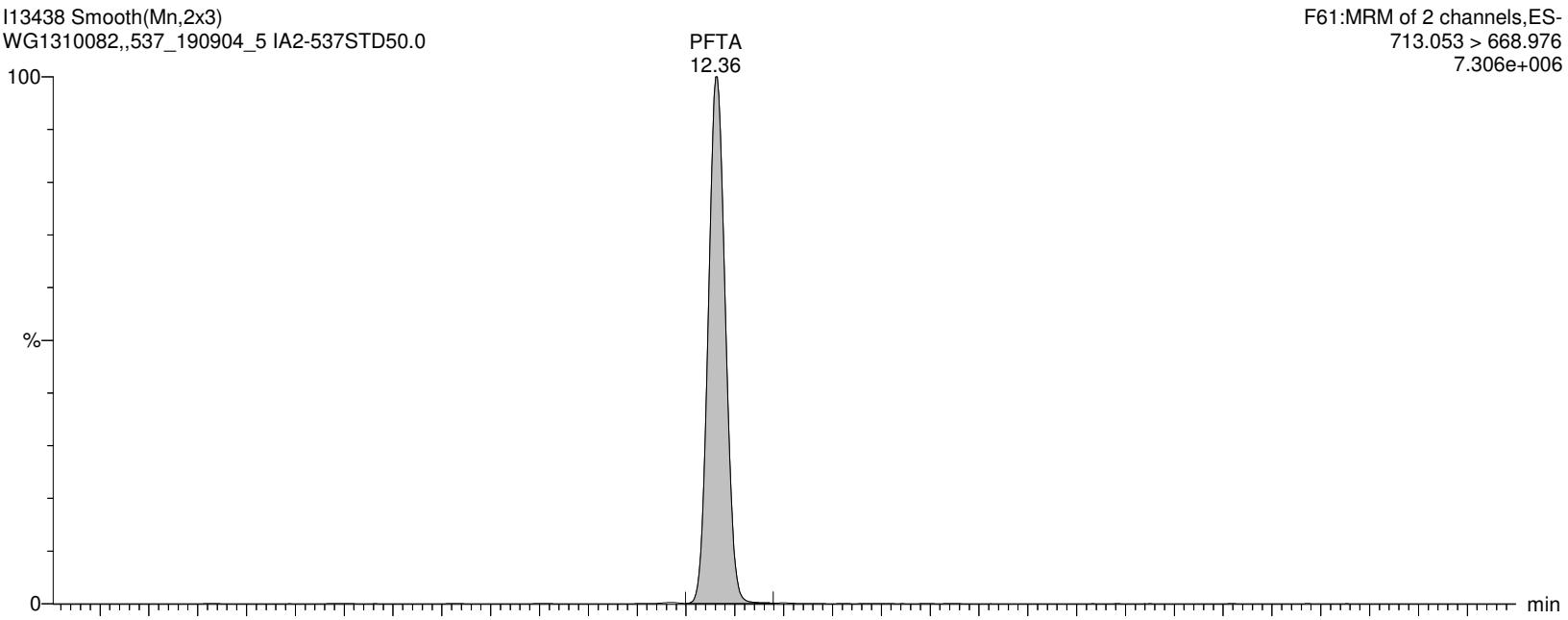

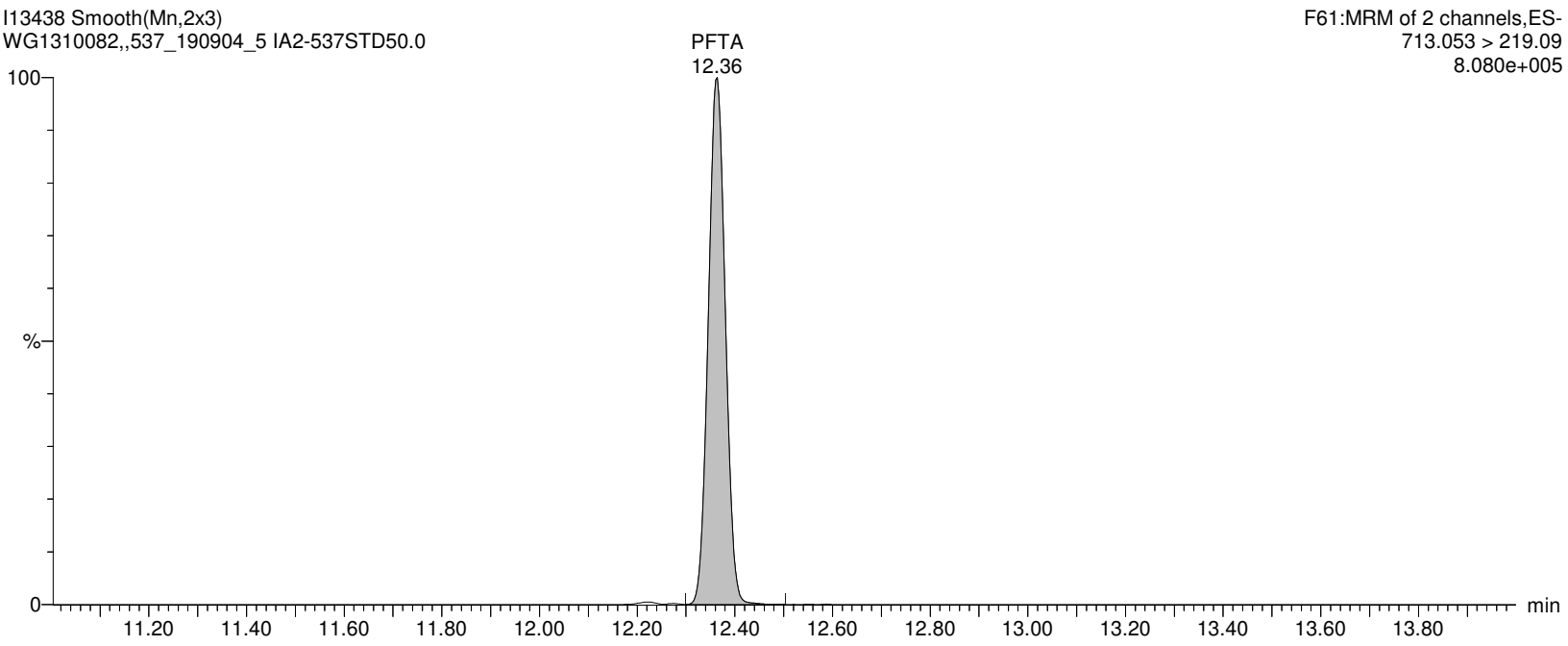

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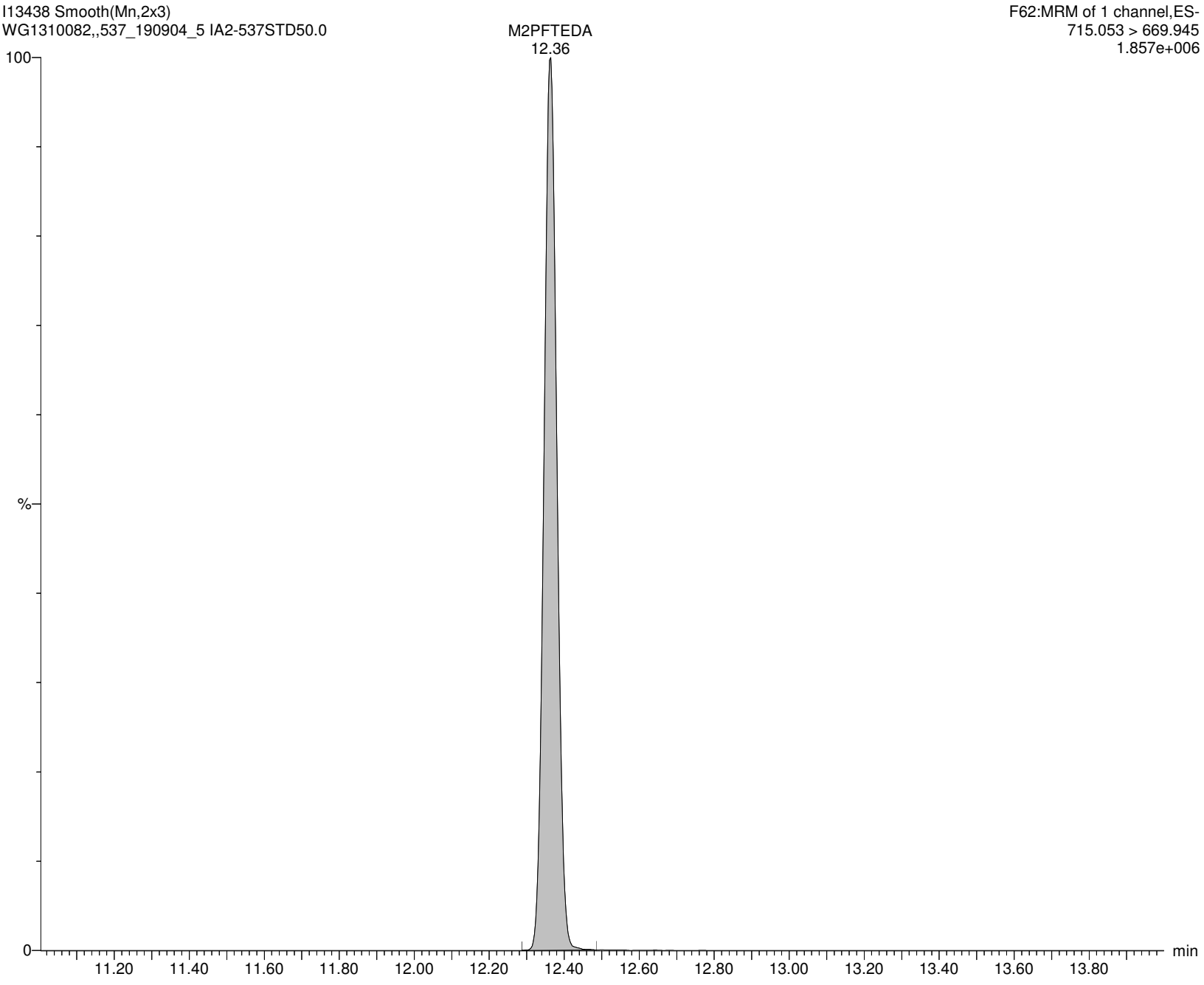

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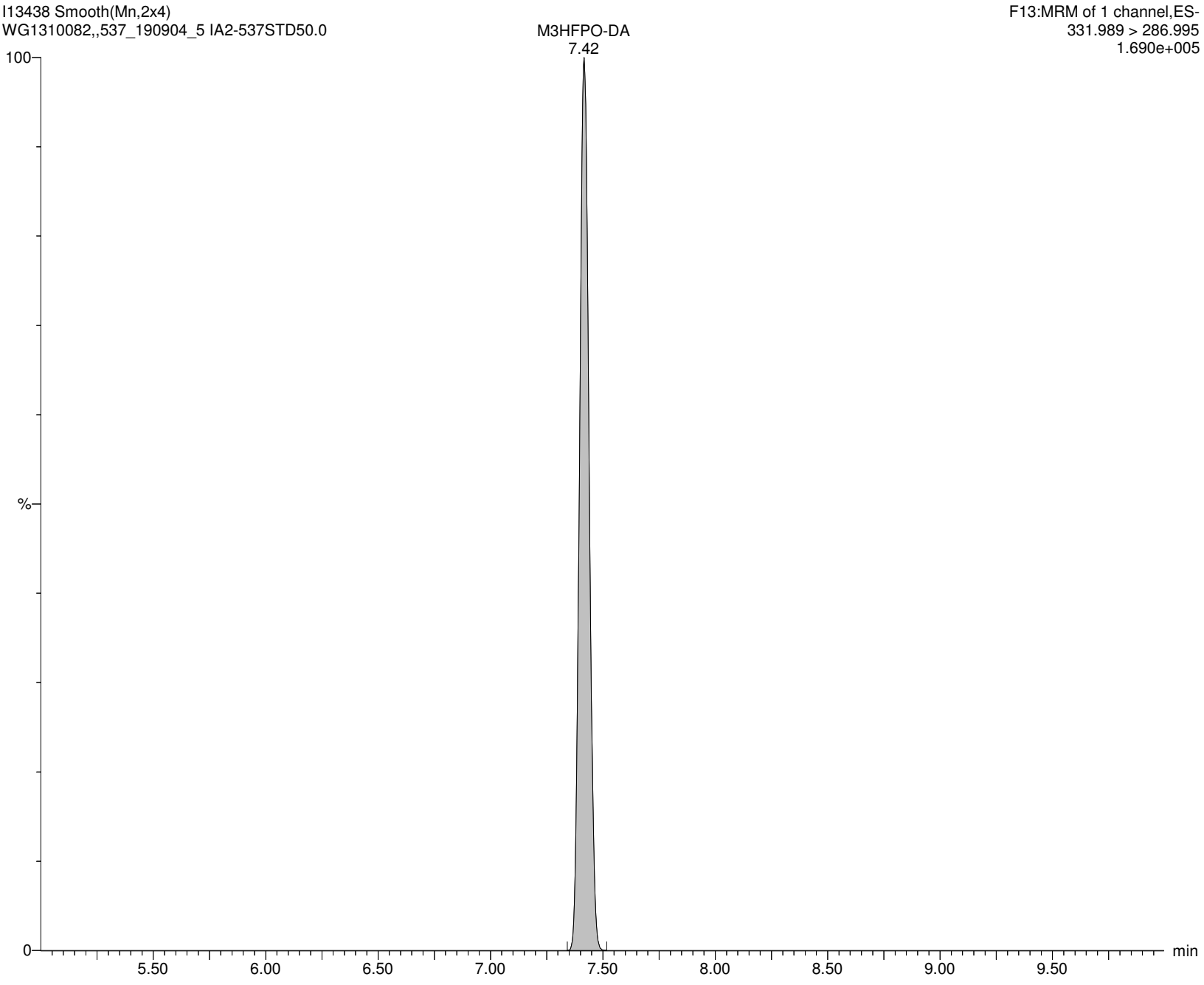

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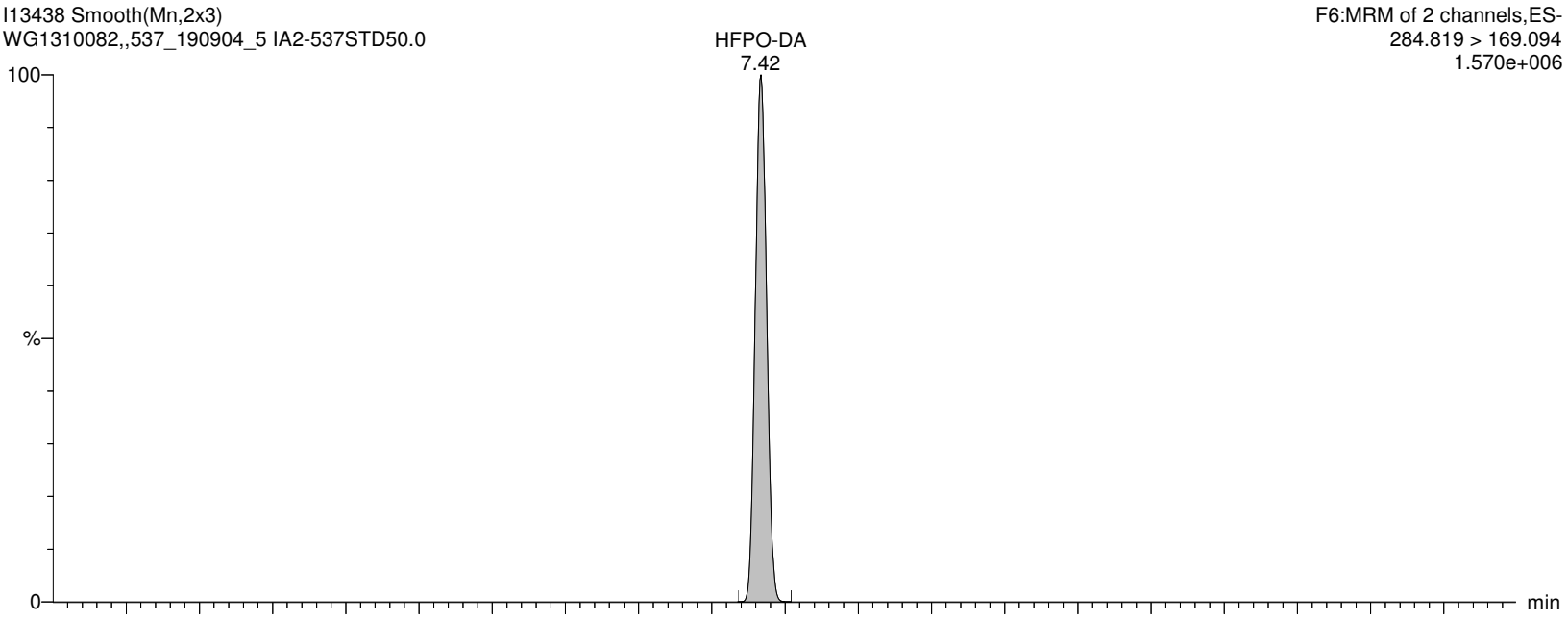

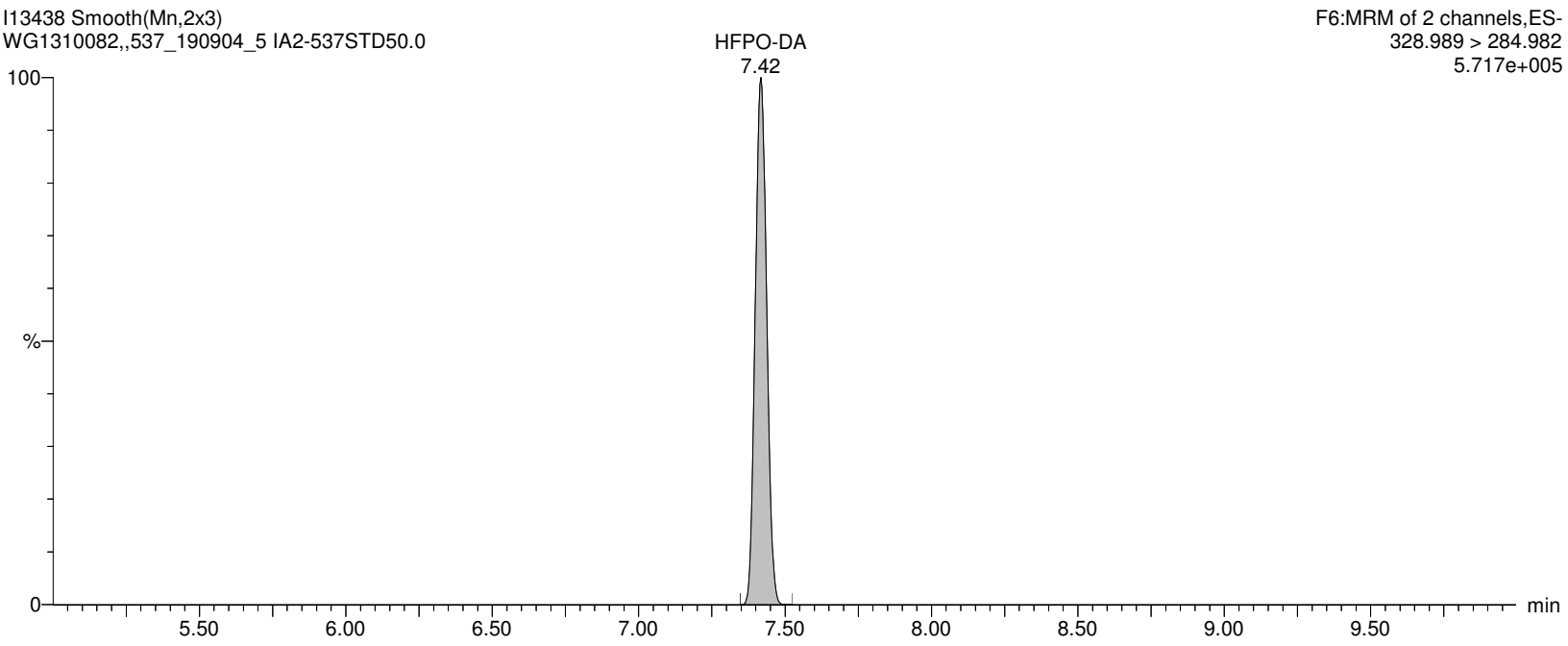

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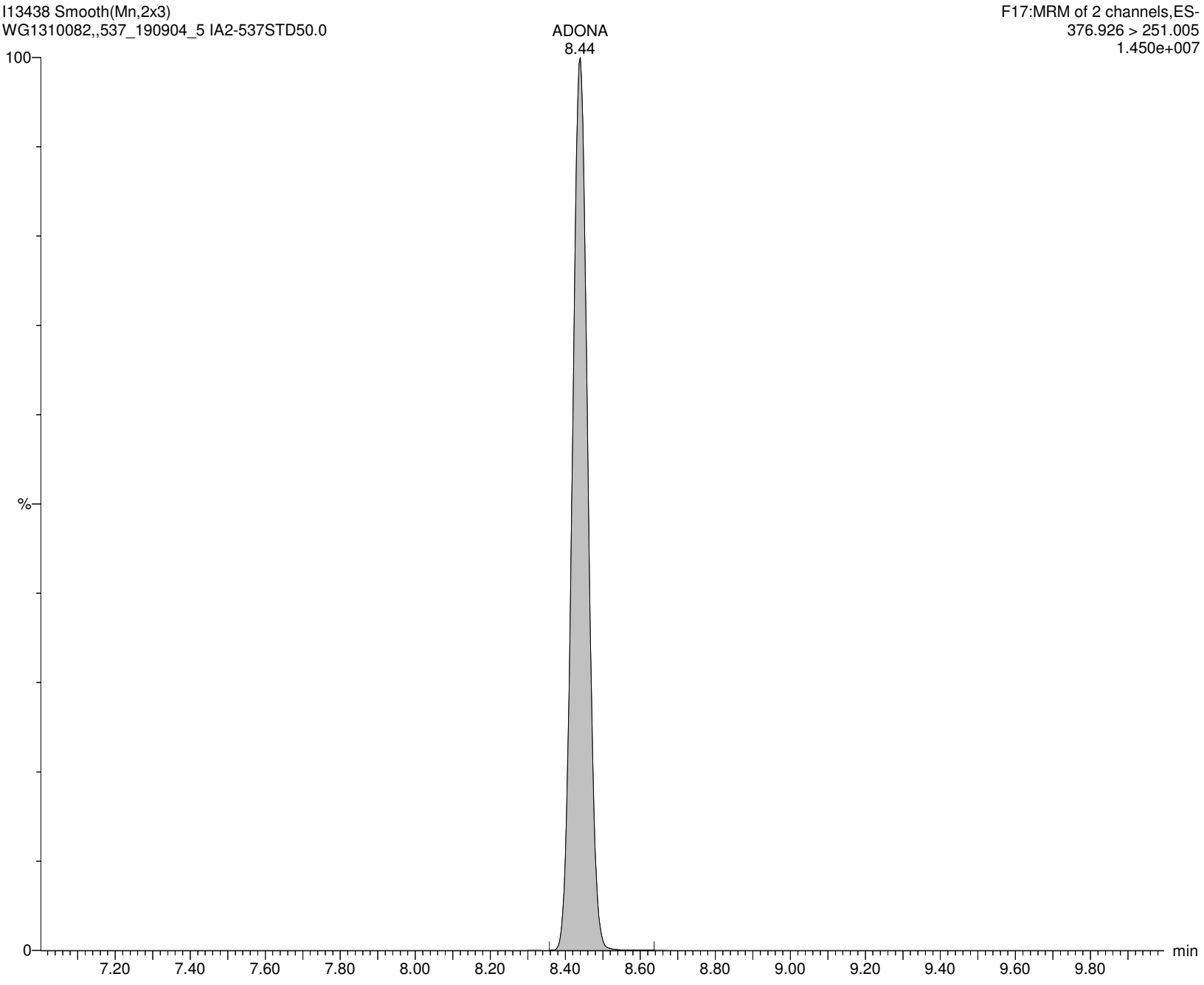

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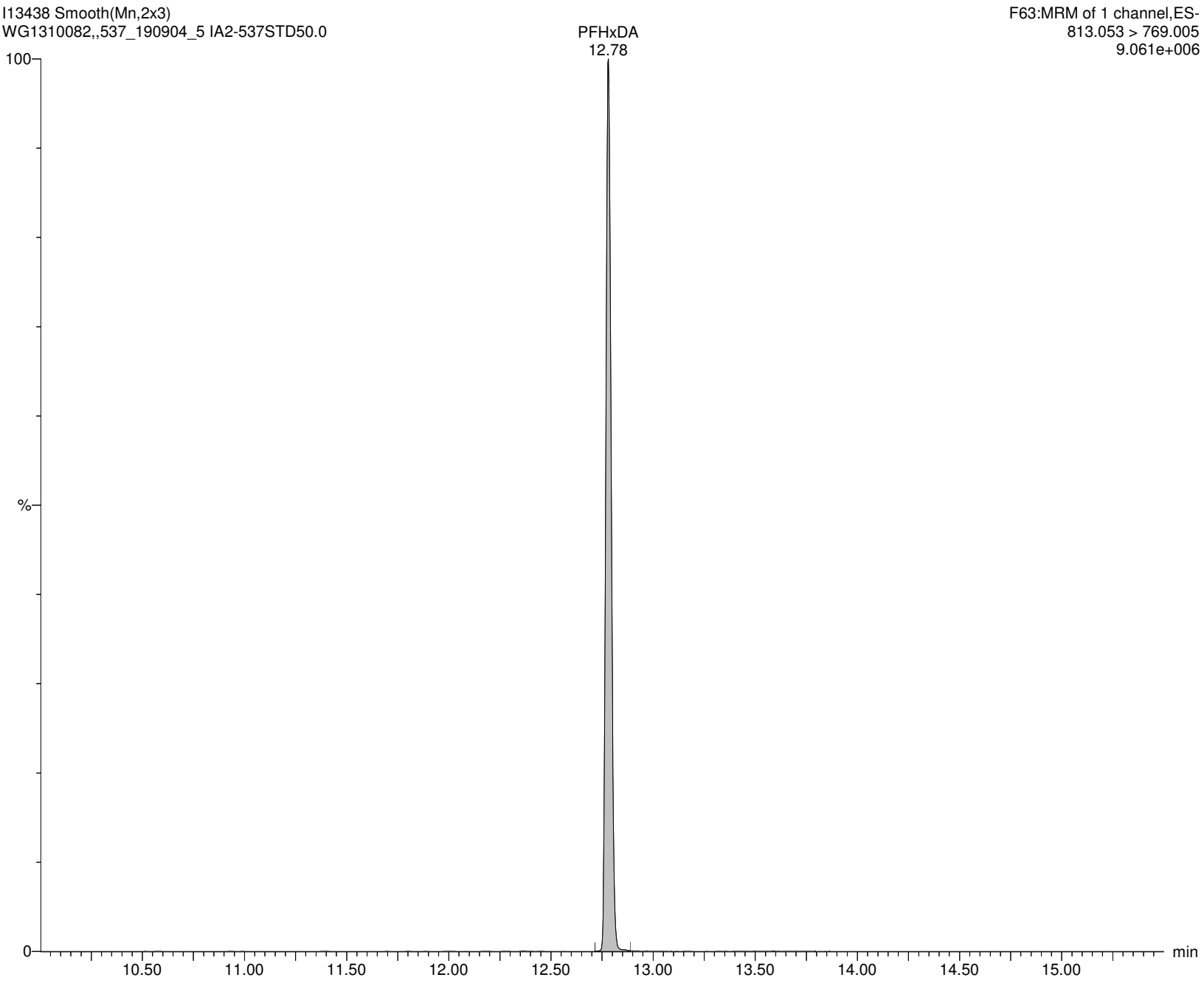

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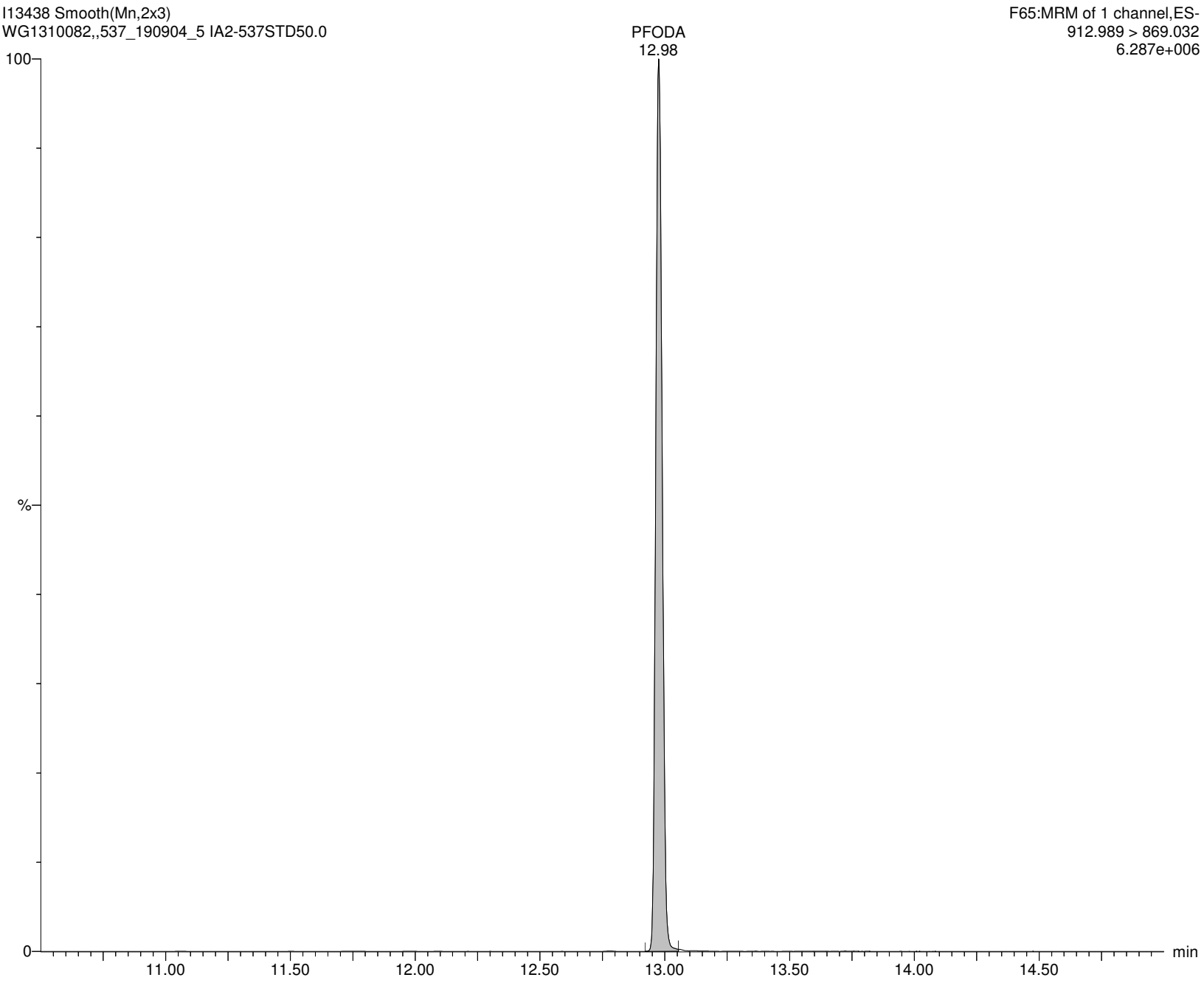

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:56 Eastern Standard Time

Name: I13438
ID: IA2-537STD50.0
Date: 18-Nov-2019
Time: 11:43:24
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User: LCMS02:JW
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Instrument: XEVO-TQSmicro#QEB0050
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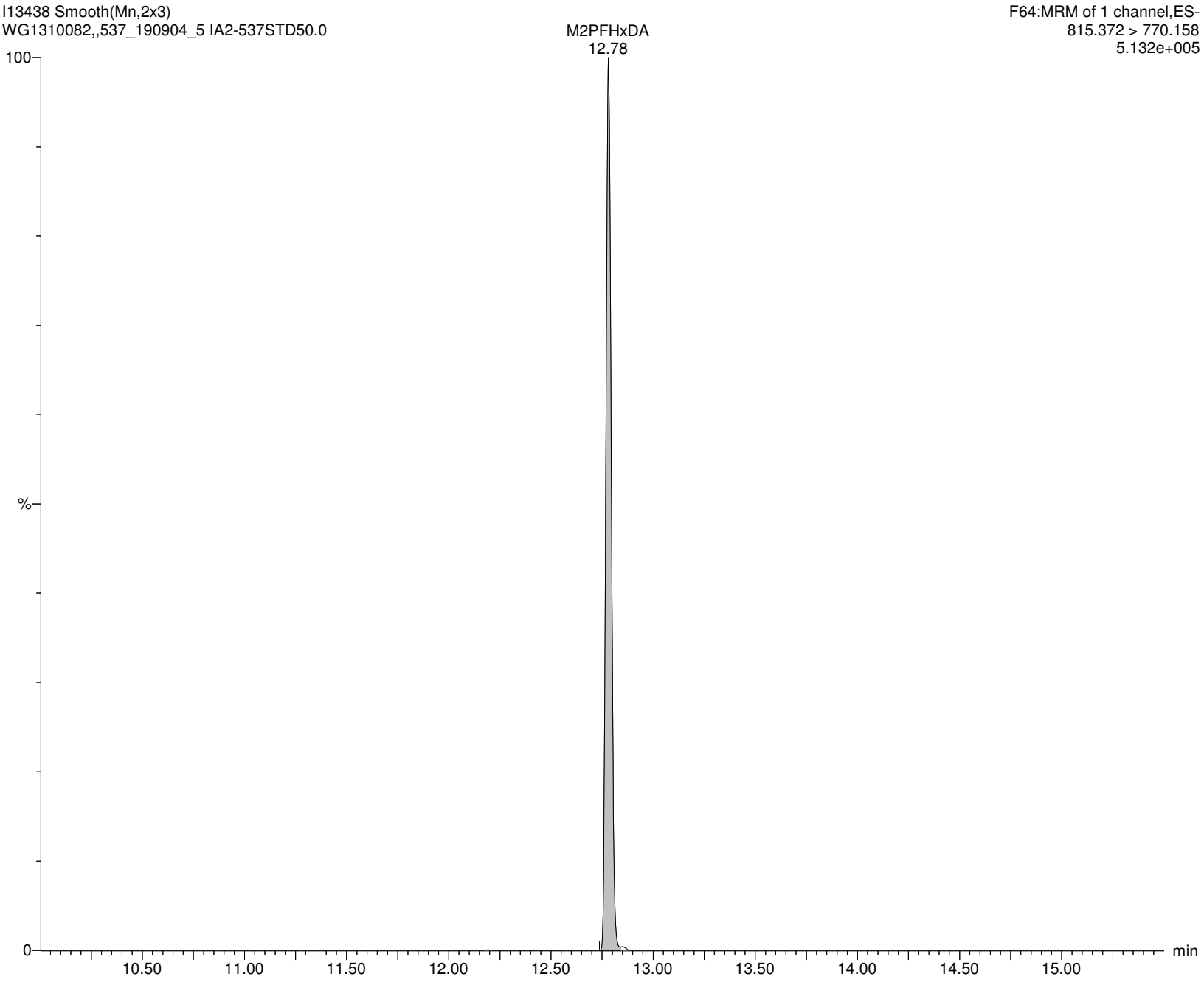

all concentration units in (ng/mL)

Alpha Analytical Inc.
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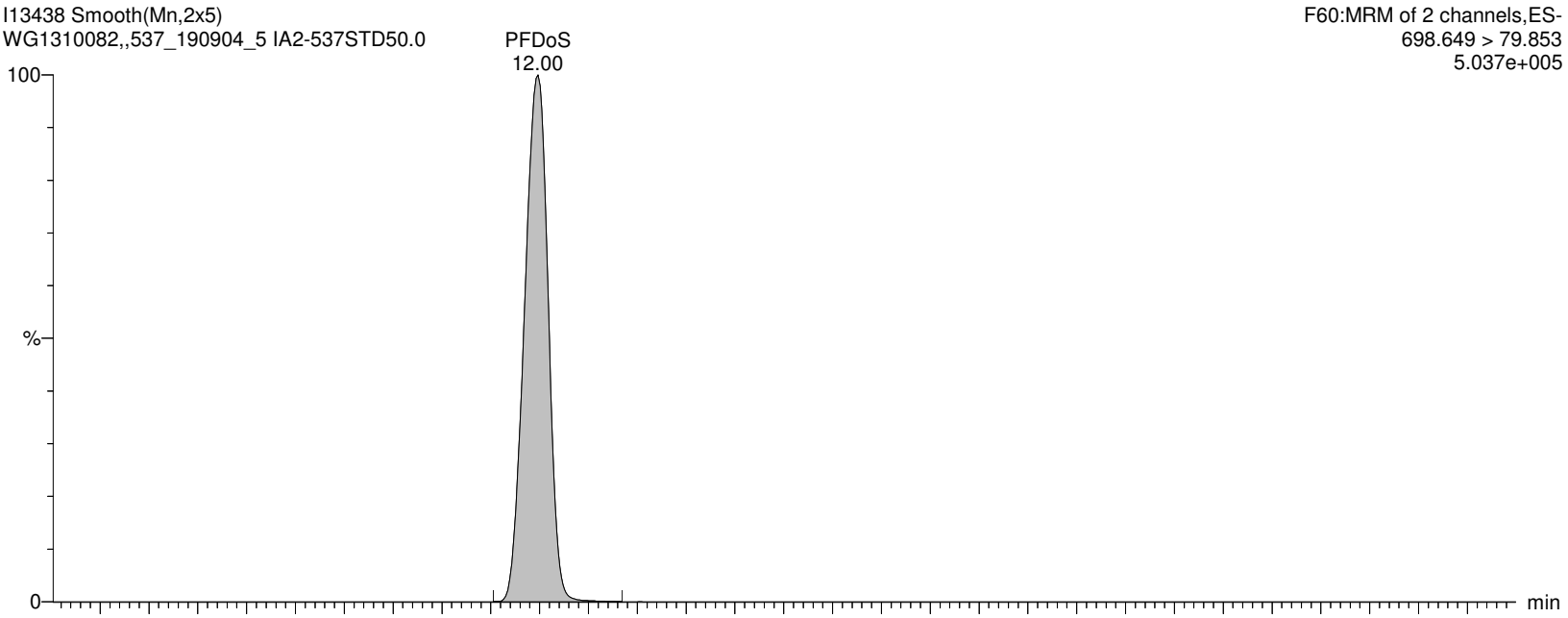

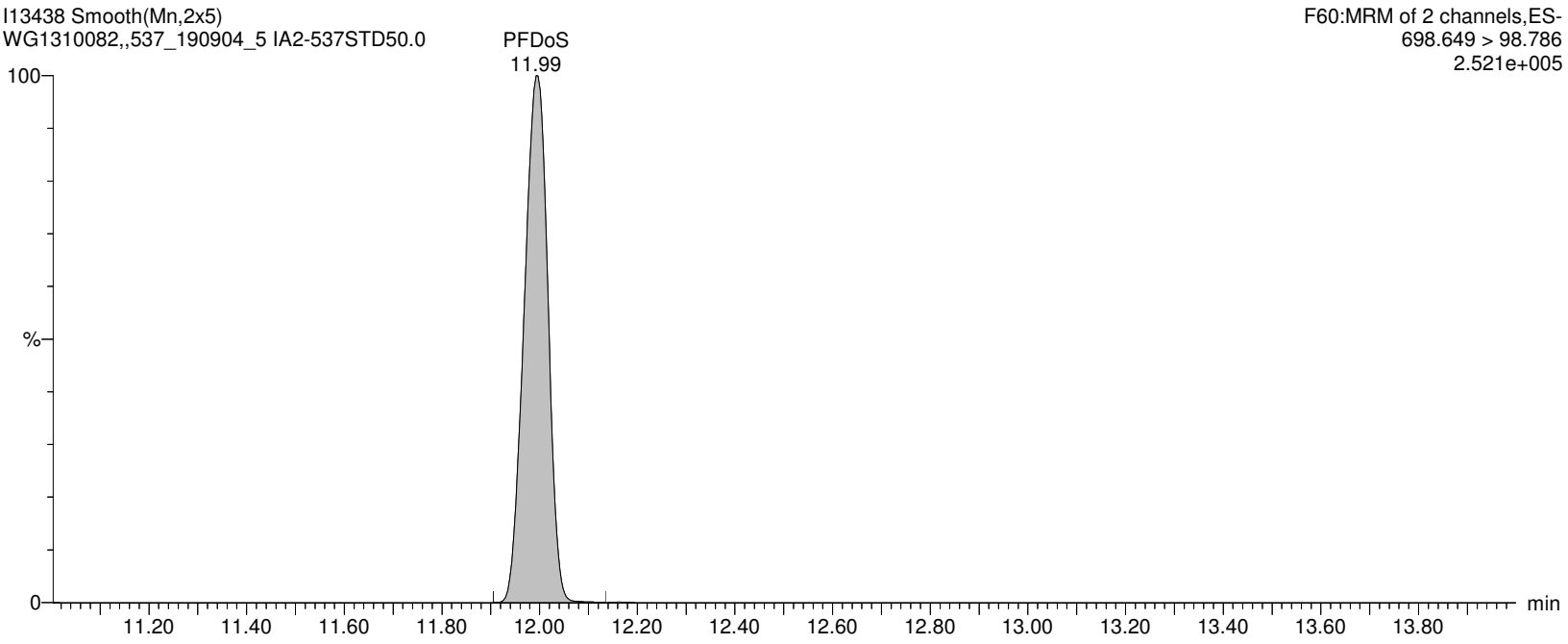

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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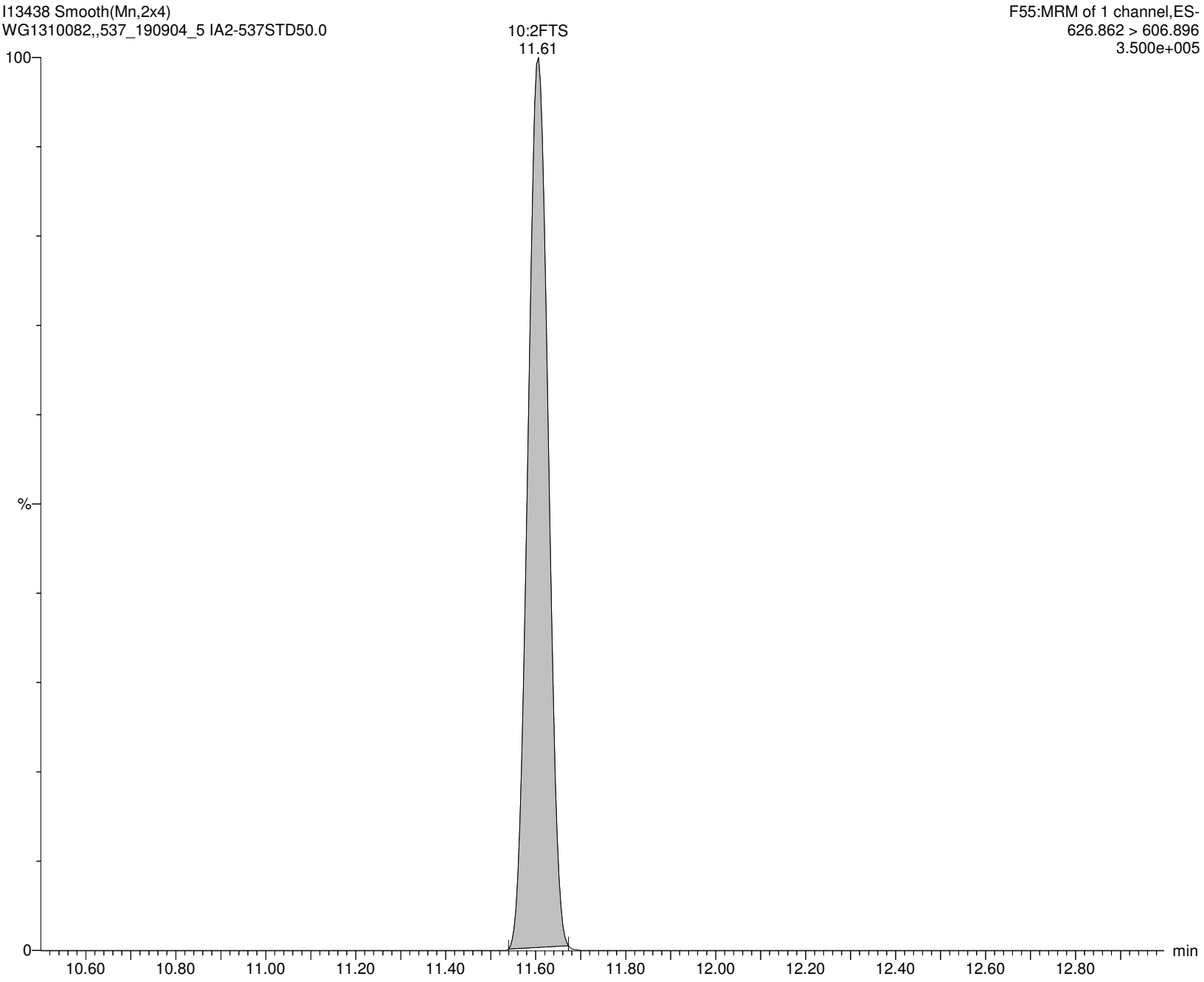

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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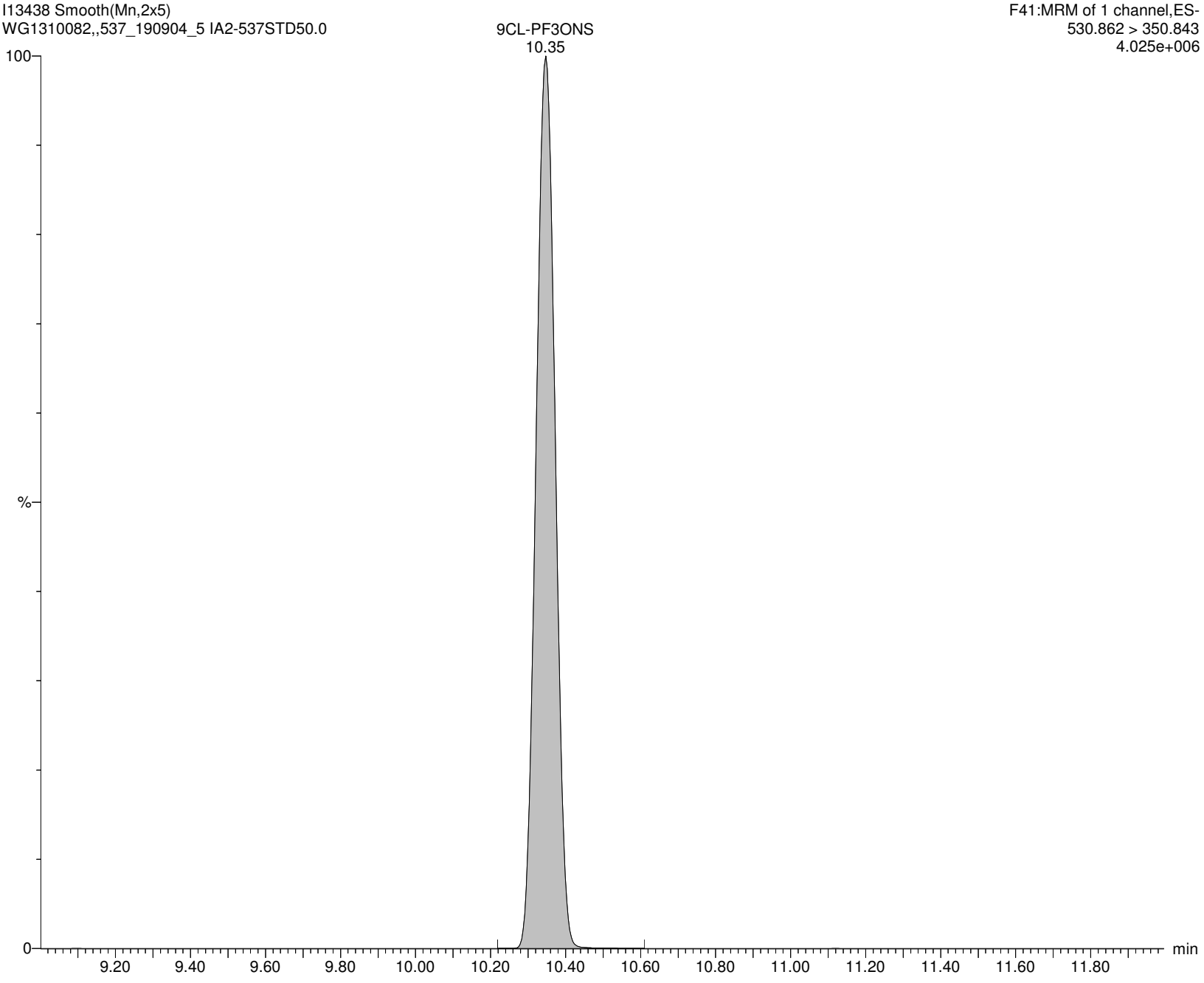
9CL-PF3ONS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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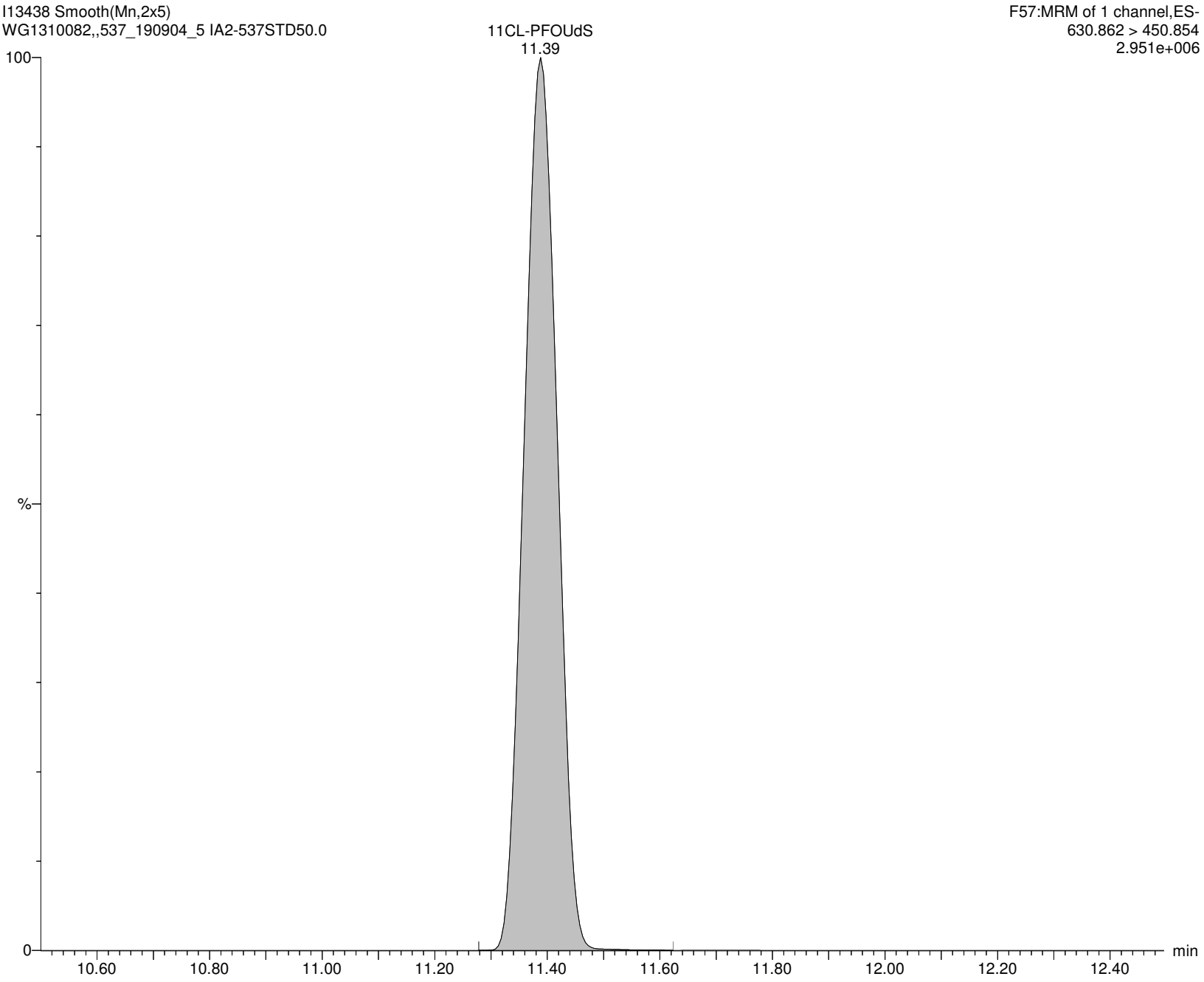
11CL-PFOUdS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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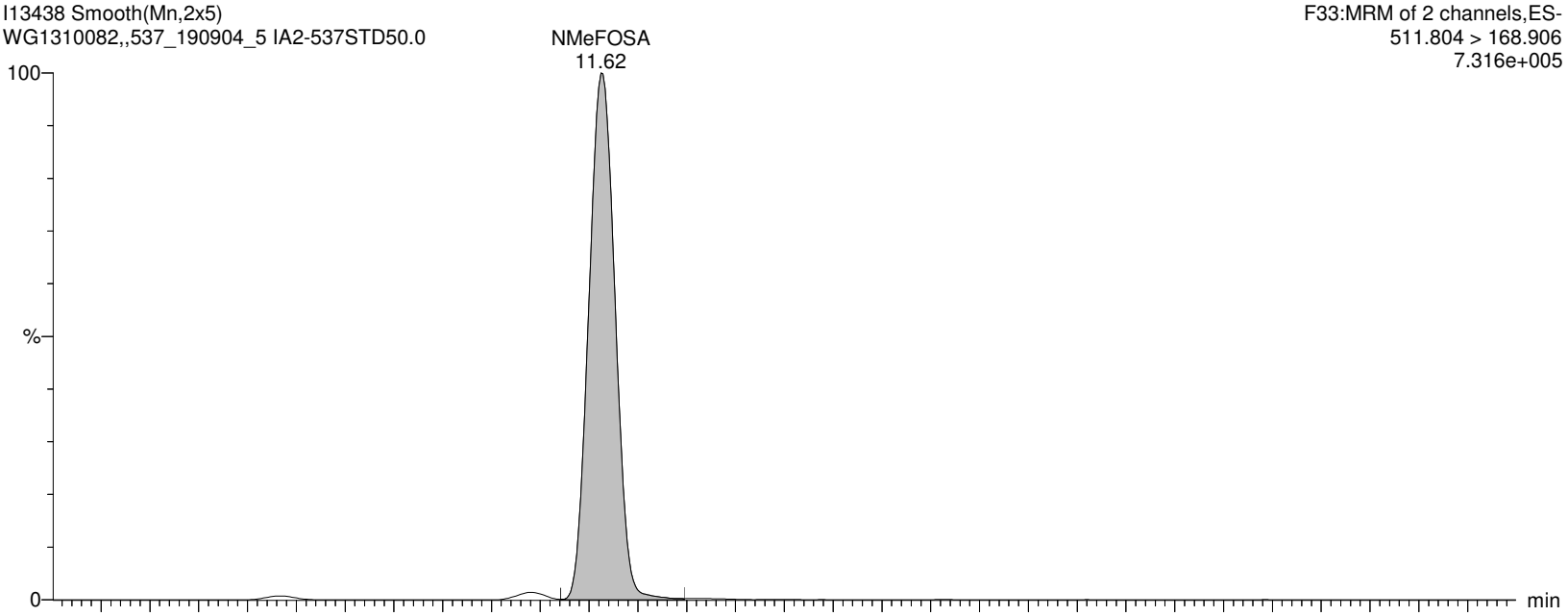

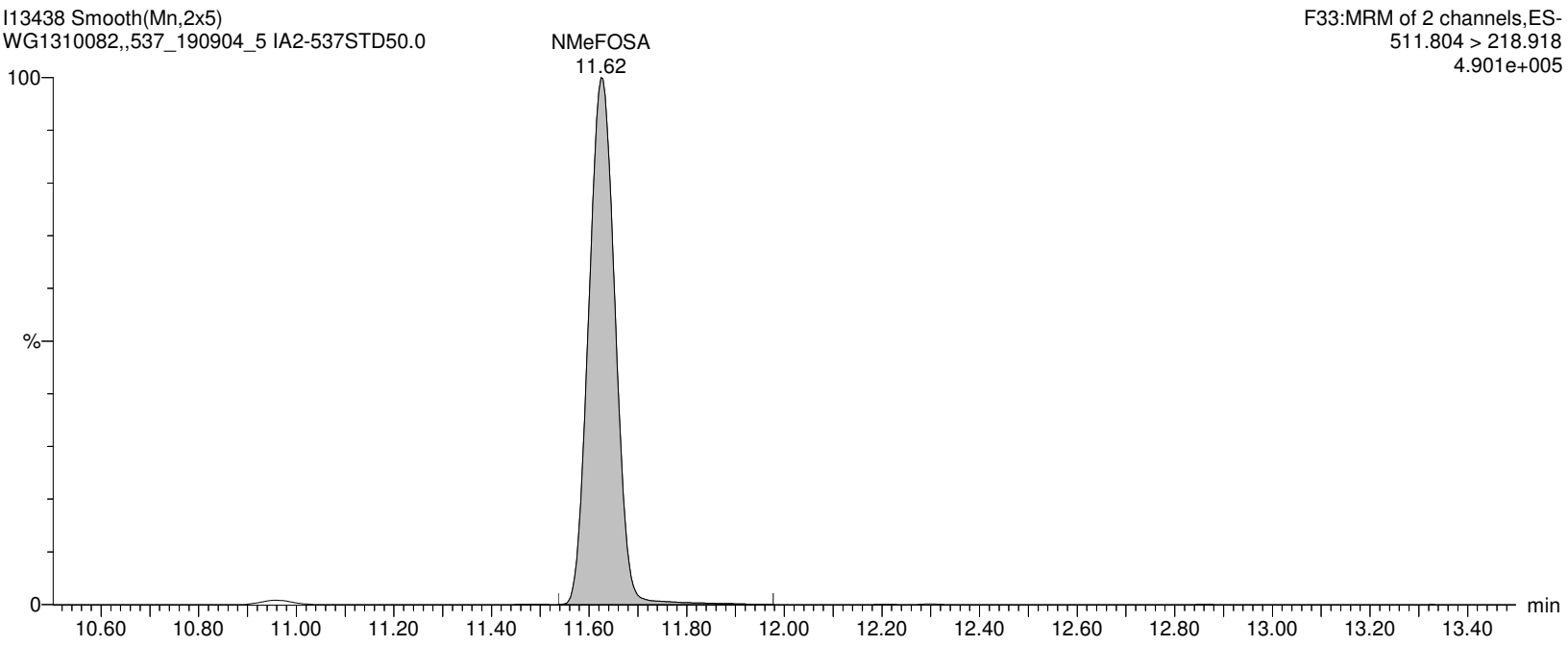

all concentration units in (ng/mL)

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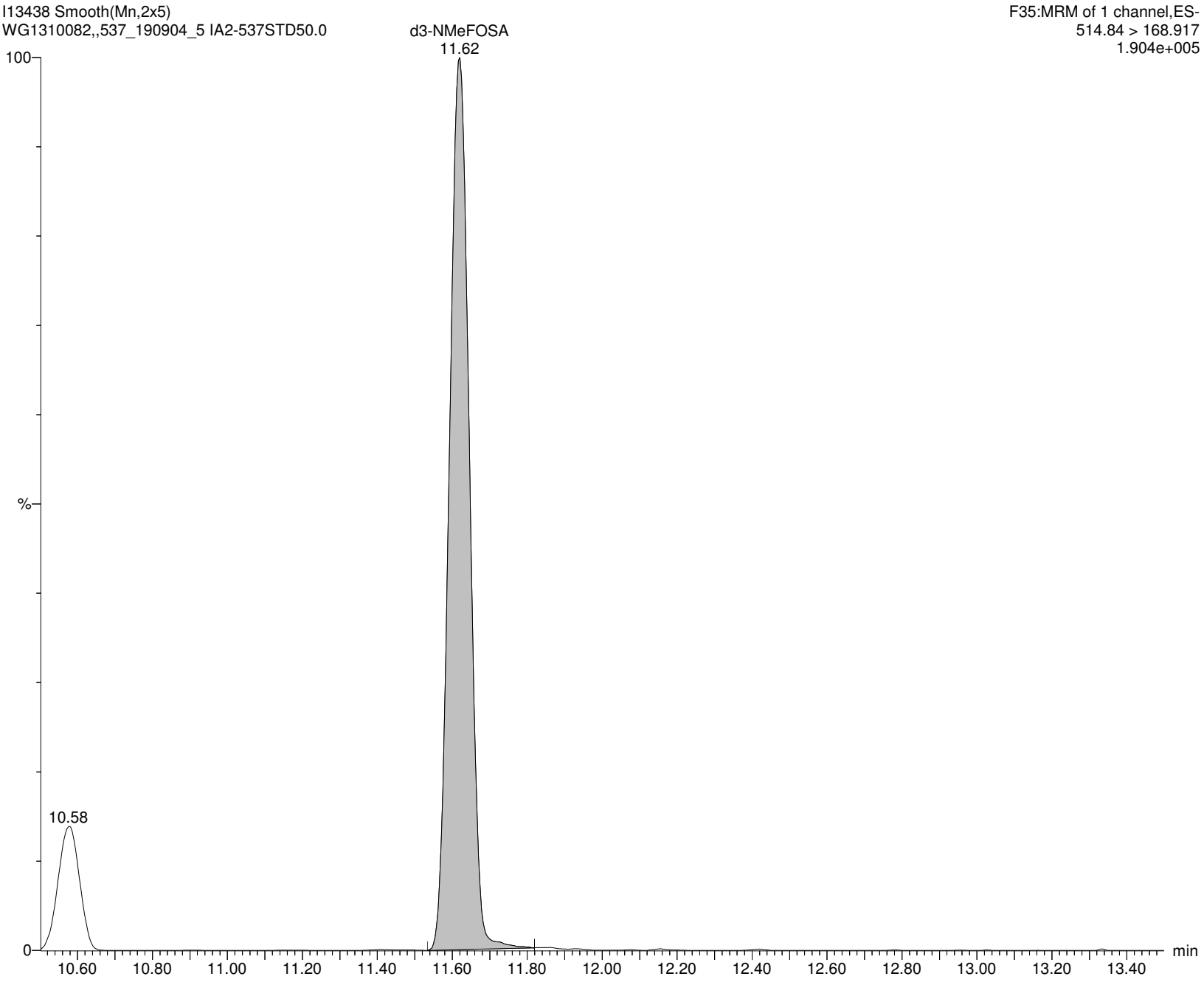

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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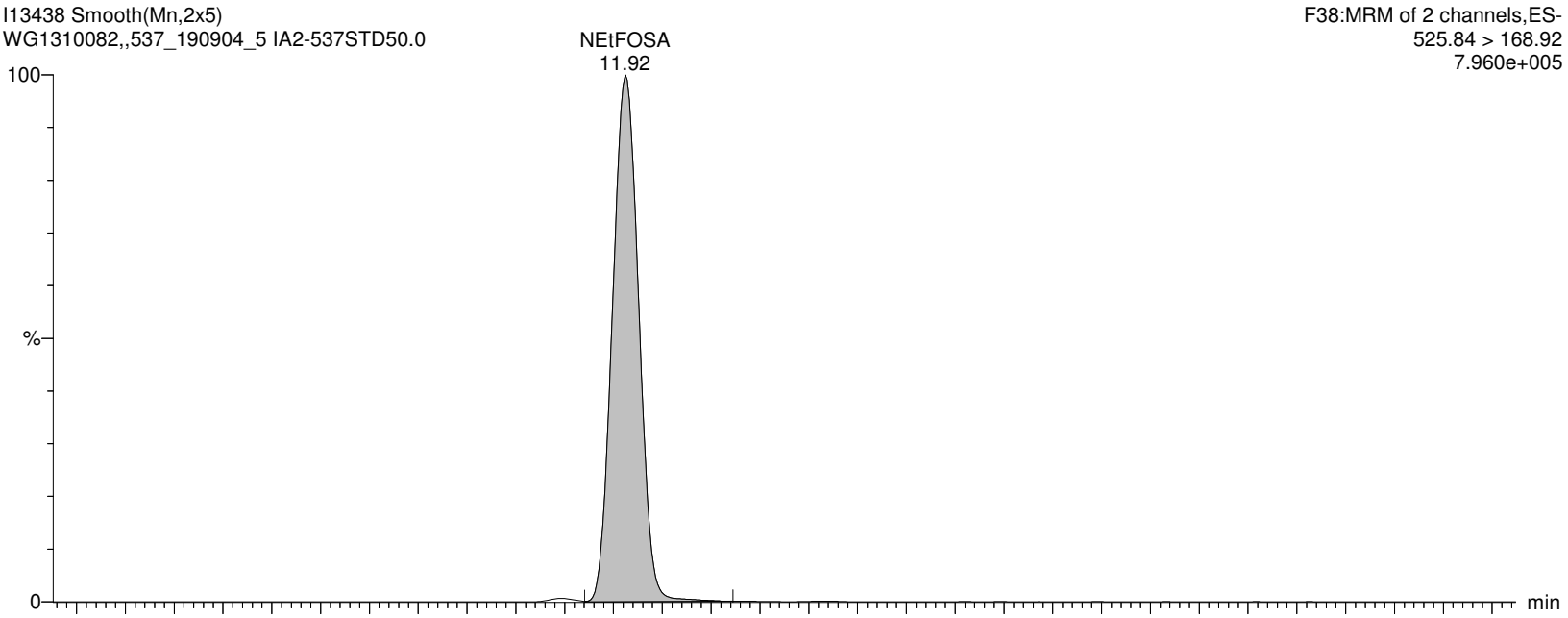

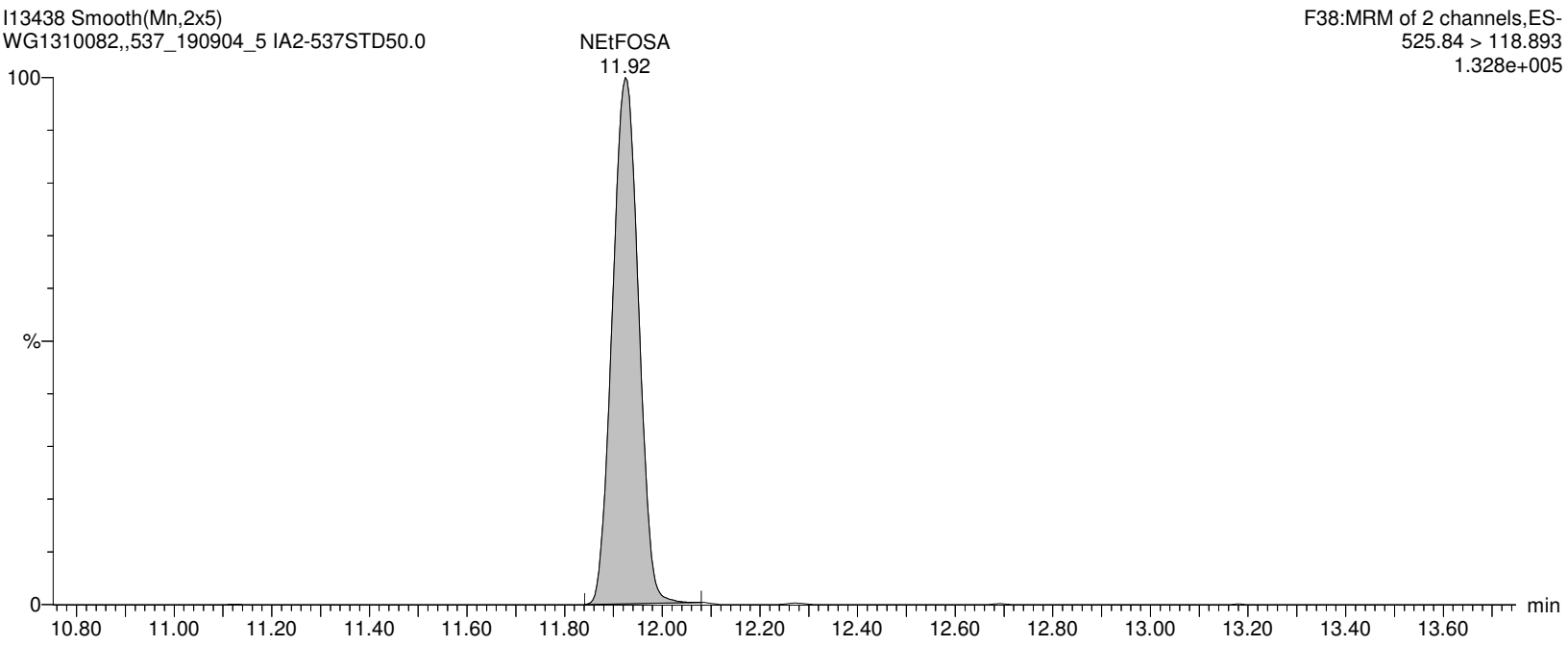

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Date: 18-Nov-2019
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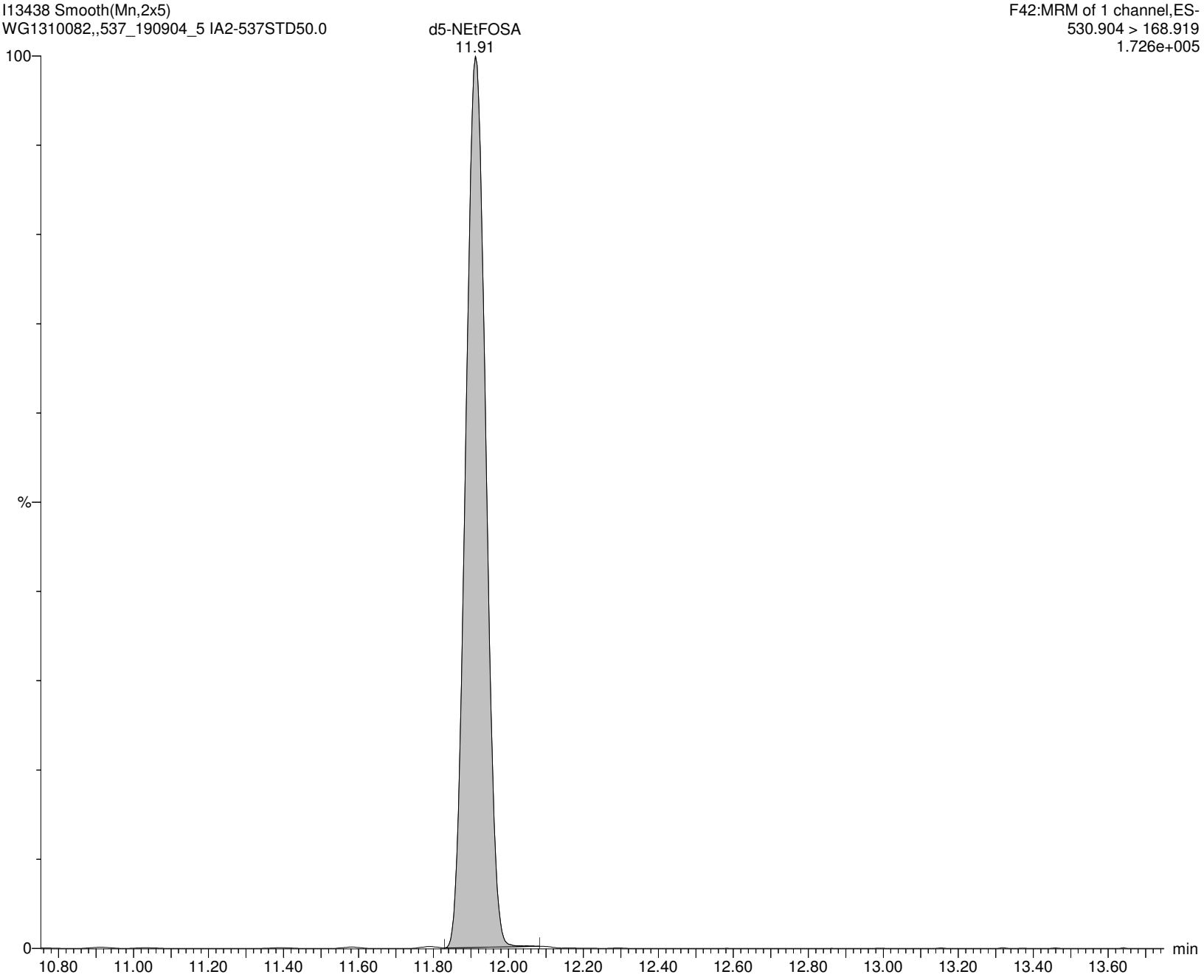

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Date: 18-Nov-2019
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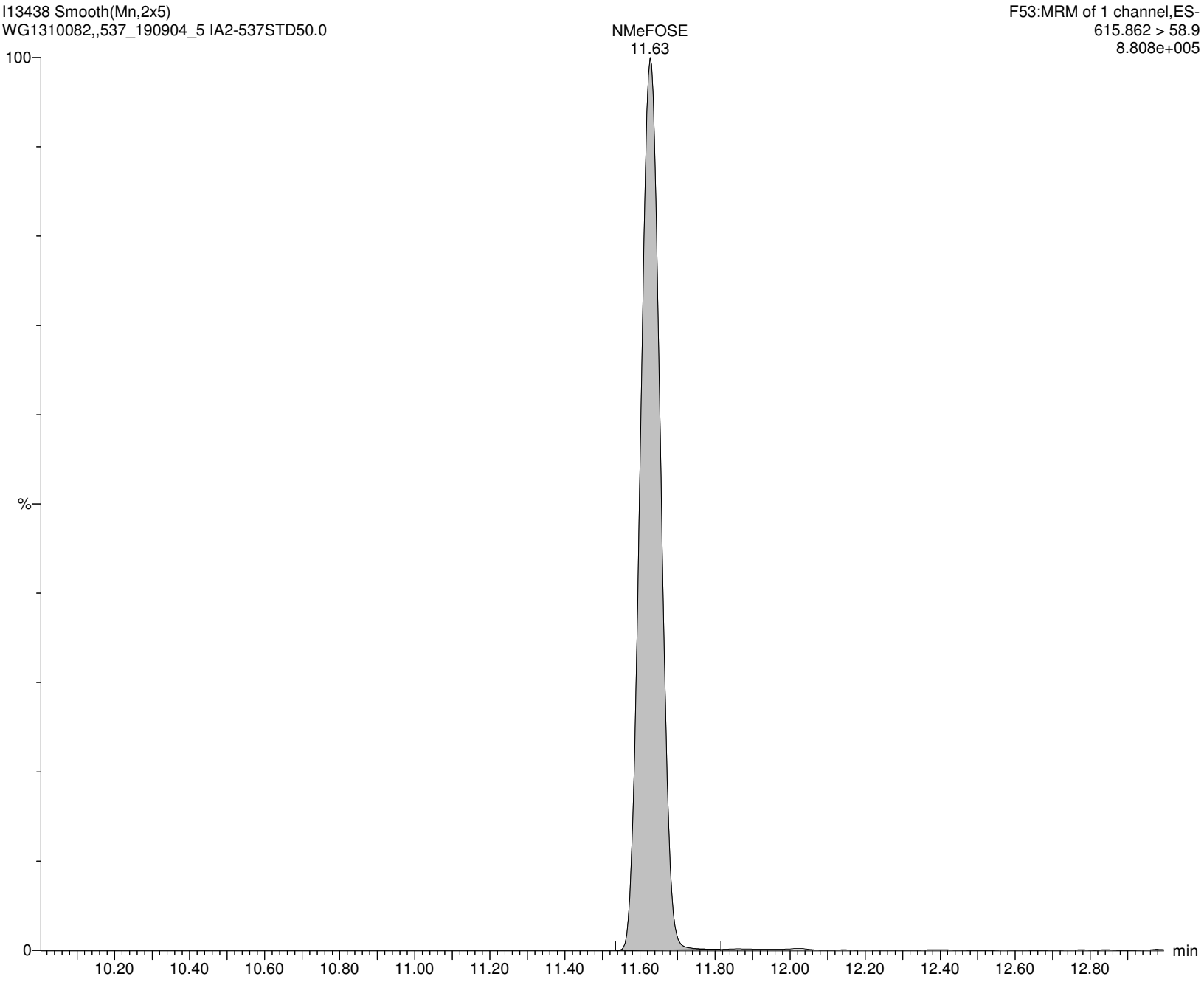

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 18-Nov-2019
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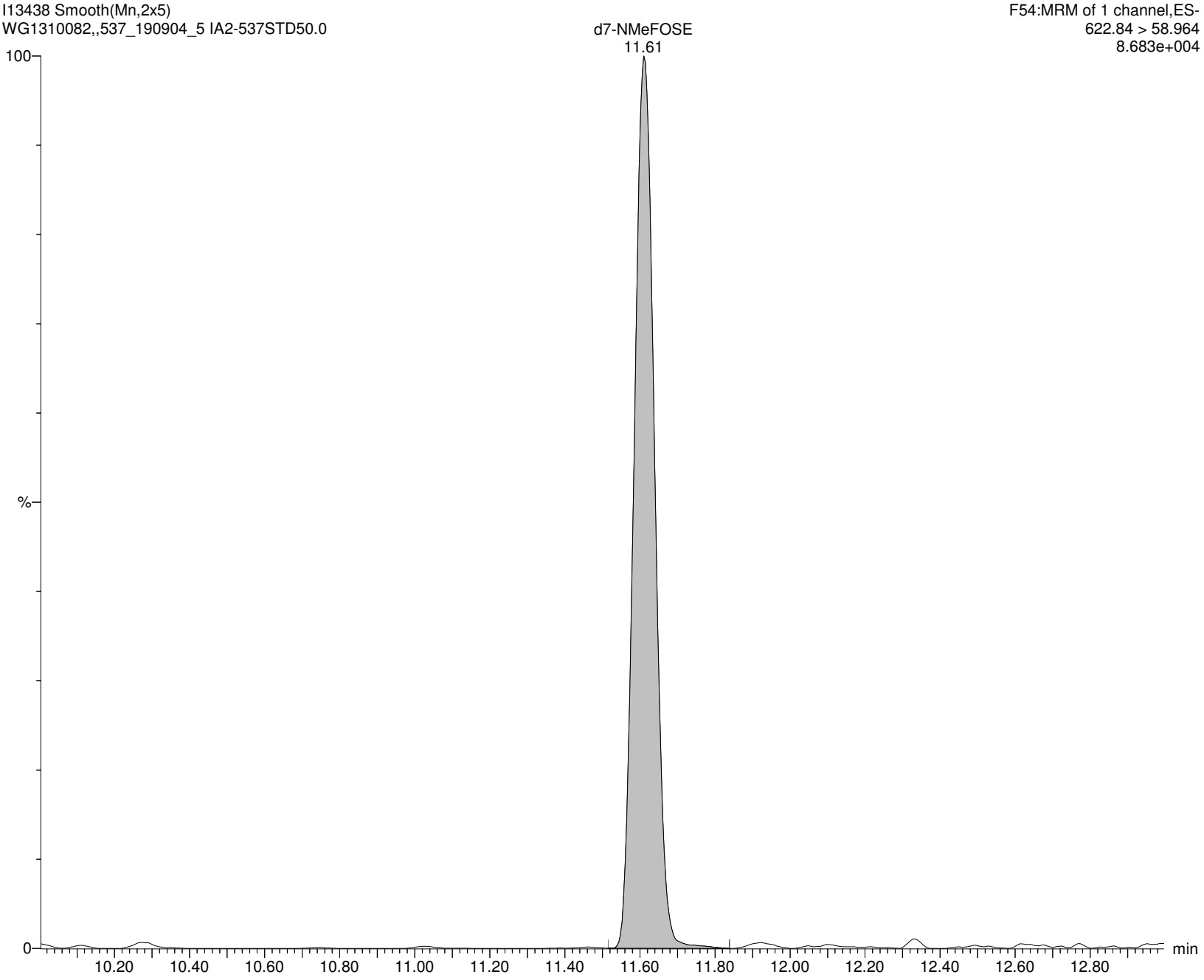
d7-NMeFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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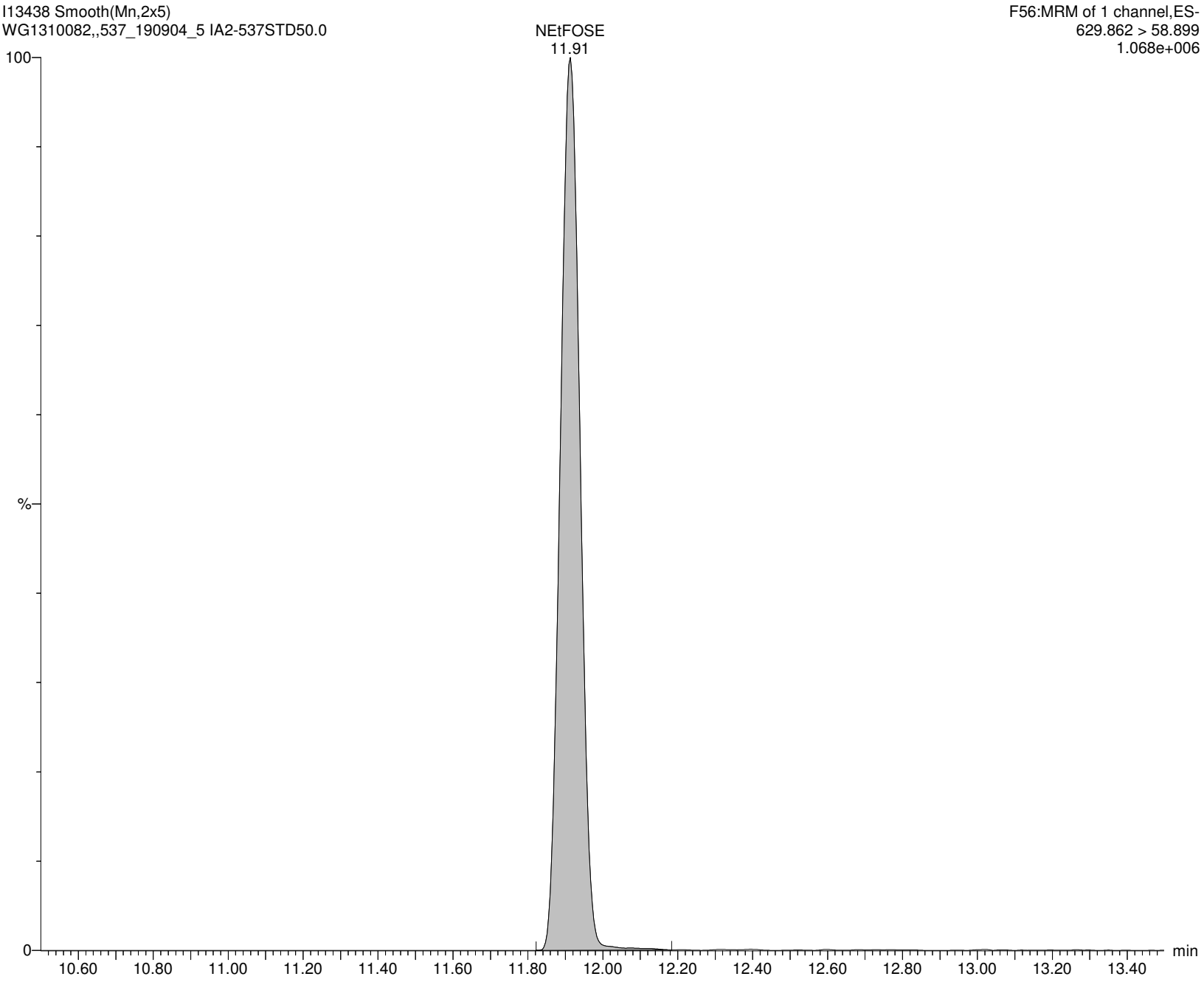
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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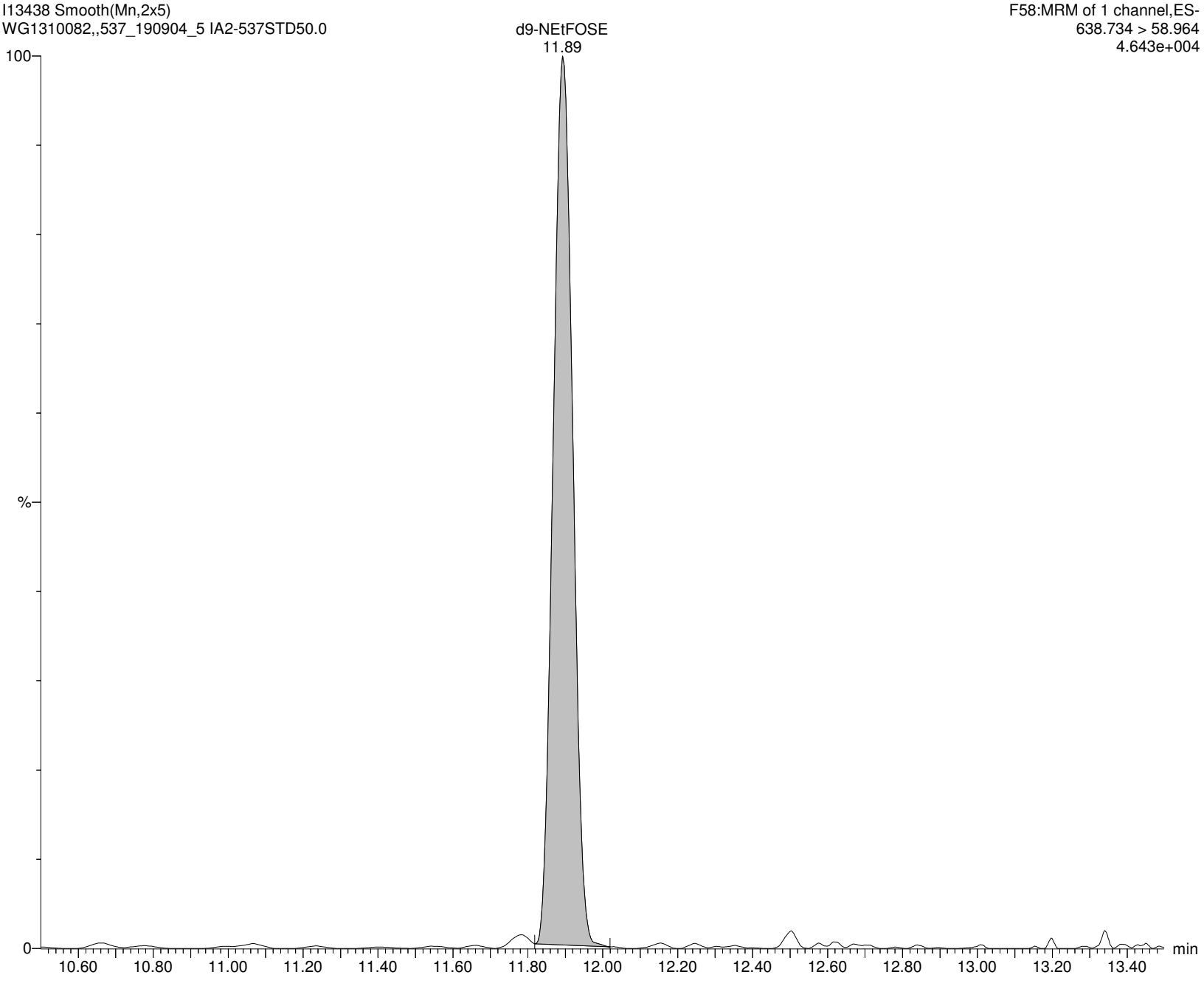
d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Monday, November 18, 2019 13:42:59 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
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Time: 12:00:10
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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	497631		123.580		na	98.9
2	M3PFBA	INT STD	2.19	215.926 > 172.122	44597		9.625		na	96.2
3	MPFBA	INT STD	2.19	216.926 > 172.137	48226		9.937		na	99.4
4	PFPeA	2706-90-3	5.10	262.926 > 219.002	808329		123.649		na	98.9
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	67688		9.833		na	98.3
6	PFBS	375-73-5	5.74	298.926 > 79.923	147916		109.133	1.91	NO	98.7
7	M3PFBS	INT STD	5.74	301.989 > 80.254	9225		9.219		na	92.2
8	4:2FTS	757124-72-4	6.91	326.926 > 306.957	66776		110.524	2.11	NO	94.6
9	M2-4:2FTS	INT STD	6.91	329.117 > 309.079	8099		12.466		na	124.7
10	PFHxA	307-24-4	6.99	312.989 > 269.028	867097		122.320	18.02	NO	97.9
11	M5PFHxA	INT STD	6.99	317.989 > 273.045	77004		9.950		na	99.5
12	PFPeS	2706-91-4	7.30	348.926 > 80.251	97344		104.923	1.74	NO	89.3
13	PFHpA	375-85-9	8.25	362.926 > 319.014	1153906		126.109	5.91	NO	100.9
14	M4PFHpA	INT STD	8.25	366.926 > 321.979	101437		9.839		na	98.4
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	14988	M5	20.296	2.52	NO	95.5
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	58360		83.984	1.15	NO	90.8
17	PFHxS	355-46-4		398.926 > 80.295	73348		104.280		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	5548		9.605		na	96.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	1104013		122.381	10.15	NO	97.9
21	PFOA	335-67-1		412.989 > 368.9	1104013		122.381		na	
22	M8PFOA	INT STD	9.19	420.989 > 375.979	98245		9.931		na	99.3
23	M2PFOA	INT STD	9.19	415.032 > 369.968	101103		9.564		na	95.6
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	52169		117.597	11.09	NO	99.0
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	7531		11.861		na	118.6
26	PFHpS	375-92-8	9.28	448.926 > 80.257	51706		114.358	0.84	NO	96.3
27	PFNA	375-95-1	9.95	462.989 > 418.931	964954		124.705	4.55	NO	99.8
28	M9PFNA	INT STD	9.94	472.053 > 426.947	94452		9.703		na	97.0
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	23336	M5	23.990	4.76	NO	96.0
30	L-PFOS	1763-23-1	9.99	498.989 > 80.294	58382		86.636	1.47	NO	94.9
31	PFOS	1763-23-1		498.989 > 80.294	81717		110.626		na	
32	M4PFOS	INT STD	9.99	503.032 > 80.306	7149		10.237		na	102.4
33	M8PFOS	INT STD	9.99	507.053 > 80.294	6866		9.360		na	93.6
34	PFDA	335-76-2	10.57	513.053 > 468.906	877901		120.538	6.76	NO	96.4
35	M2PFDA	INT STD	10.57	515.053 > 469.934	80832		9.155		na	91.6
36	M6PFDA	INT STD	10.57	519.053 > 473.931	84901		10.163		na	101.6
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	37557		124.992		na	104.2
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	4755		12.767		na	127.7
39	PFNS	68259-12-1	10.60	548.989 > 80.249	74580		116.767	1.30	NO	97.3

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Time: 12:00:10
Description: WG1310082,,537_190904_6
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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.096 > 418.987	9496		9.981		na	99.8
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	118339		133.711	2.73	NO	107.0
43	NMeFOSAA	2355-31-9		570.053 > 418.917	118339		133.711		na	
44	PFUnA	2058-94-8	11.11	562.989 > 518.903	824708		120.130	8.09	NO	96.1
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	71788		9.686		na	96.9
46	PFDS	335-77-3	11.12	598.926 > 80.314	51137		112.012	0.96	NO	92.9
47	FOSA	754-91-6	11.01	497.989 > 78.245	264461		120.464	110.76	NO	96.4
48	M8FOSA	INT STD	11.01	506.053 > 78.286	20661		10.460		na	104.6
49	d5-NEtFOSAA	INT STD	11.24	589.117 > 418.929	8803		10.474		na	104.7
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	103539		124.593	2.46	NO	99.7
52	NEtFOSAA	2991-50-6		583.989 > 418.927	103539		124.593		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	888519		128.977	14.51	NO	103.2
54	MPFDOA	INT STD	11.59	614.989 > 569.92	81335		9.782		na	97.8
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	612947		119.054	11.28	NO	95.2
56	PFTA	376-06-7	12.36	713.053 > 668.976	649348		121.308	8.67	NO	97.0
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	66842		10.121		na	101.2
58	M3HFPO-DA	INT STD	7.40	331.989 > 286.995	11429		263.678		na	131.8
59	HFPO-DA	13252-13-6	7.40	284.819 > 169.094	264459		2786.926	2.68	YES	111.5
60	ADONA	958445-44-8	8.43	376.926 > 251.005	1641867		127.123		na	107.5
61	PFHxDA		12.78	813.053 > 769.005	578244		122.629		na	98.1
62	PFODA		12.99	912.989 > 869.032	447829		129.854		na	103.9
63	M2PFHxDA		12.78	815.372 > 770.158	13695		9.742		na	97.4
64	PFDoS		11.99	698.649 > 79.853	58474		125.644	1.96	YES	100.5
65	10:2FTS		11.60	626.862 > 606.896	39856		121.752		na	101.0
66	9CL-PF3ONS		10.34	530.862 > 350.843	556616		123.346		na	105.9
67	11CL-PFOUdS		11.38	630.862 > 450.854	466933		122.738		na	104.2
68	NMeFOSA		11.62	511.804 > 168.906	110689		136.165	1.44	NO	108.9
69	d3-NMeFOSA		11.62	514.84 > 168.917	10937		10.618		na	106.2
70	NEtFOSA		11.92	525.84 > 168.92	119958		133.286	5.69	NO	106.6
71	d5-NEtFOSA		11.91	530.904 > 168.919	10272		10.195		na	101.9
72	NMeFOSE		11.62	615.862 > 58.9	128959		131.619		na	105.3
73	d7-NMeFOSE		11.61	622.84 > 58.964	4843		10.039		na	100.4
74	NEtFOSE		11.91	629.862 > 58.899	148855		121.844		na	97.5
75	d9-NEtFOSE		11.89	638.734 > 58.964	3095		10.971		na	109.7

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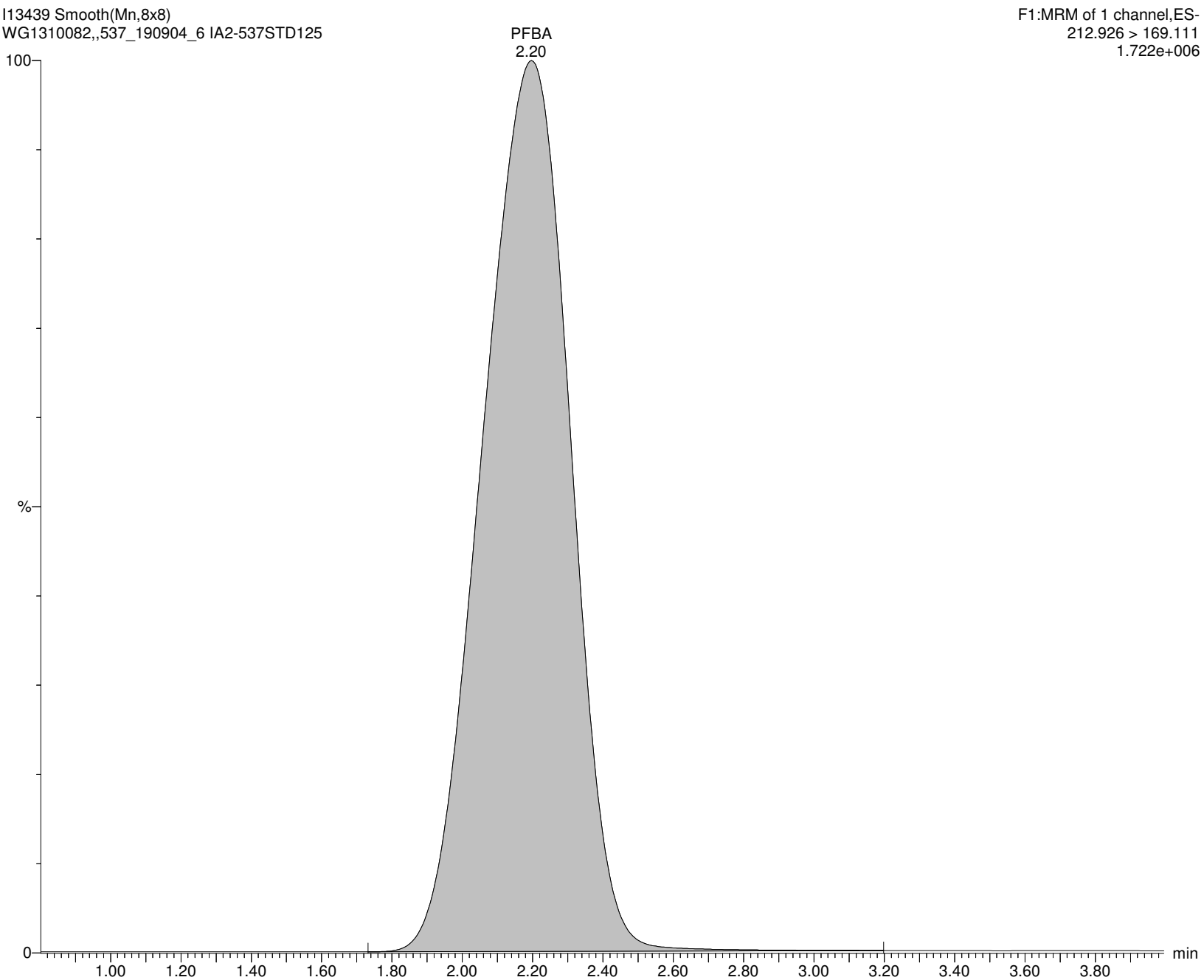

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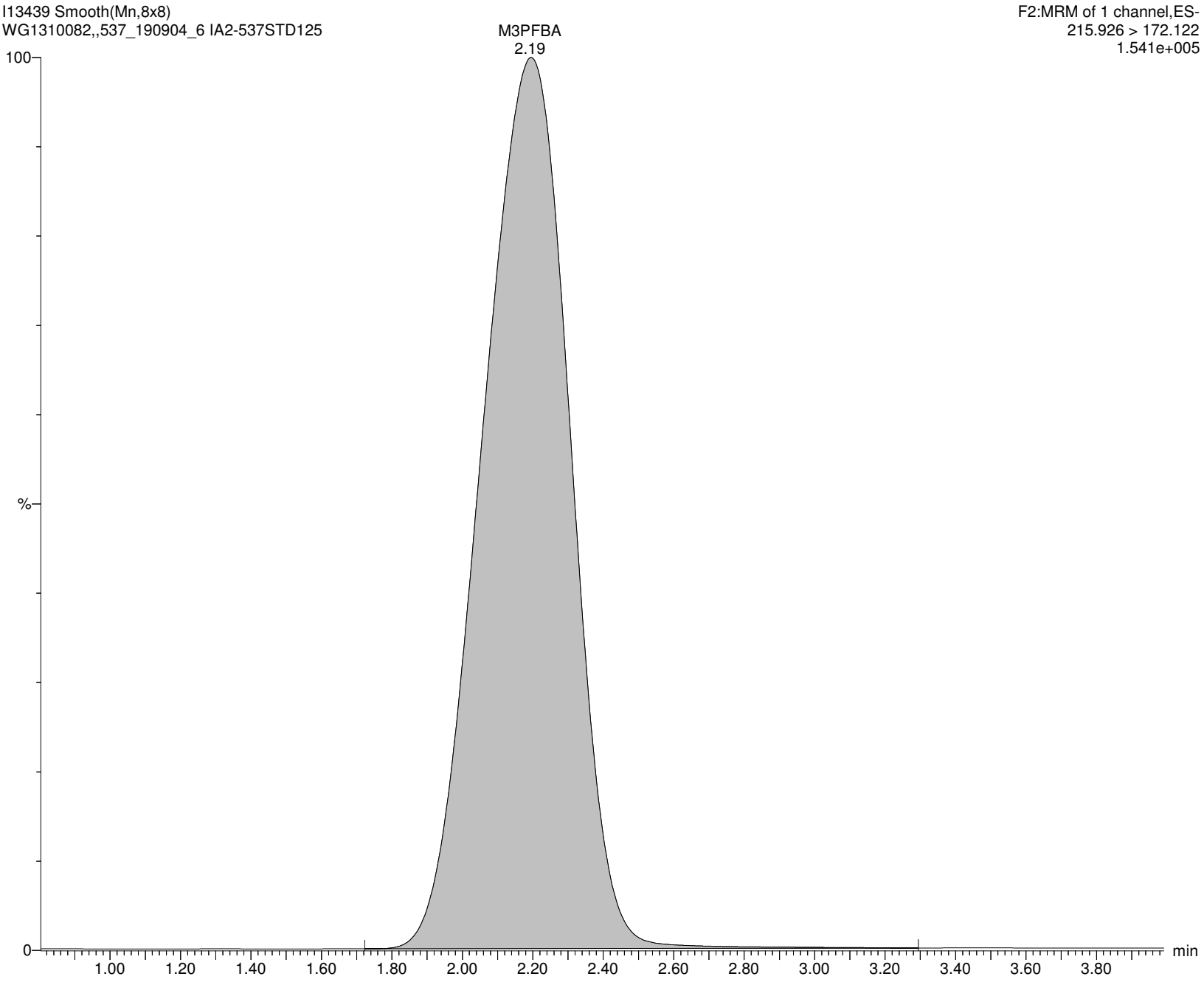

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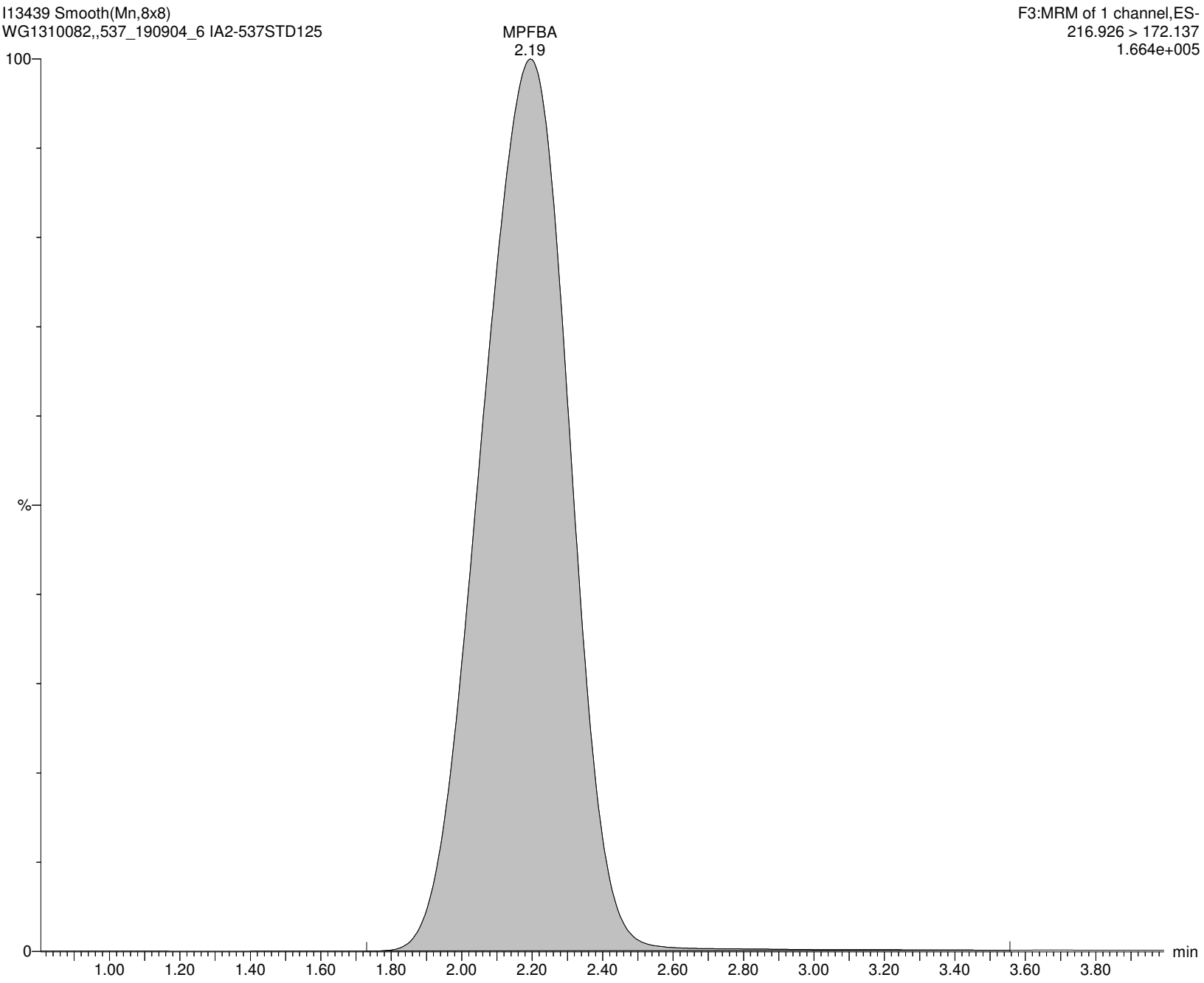

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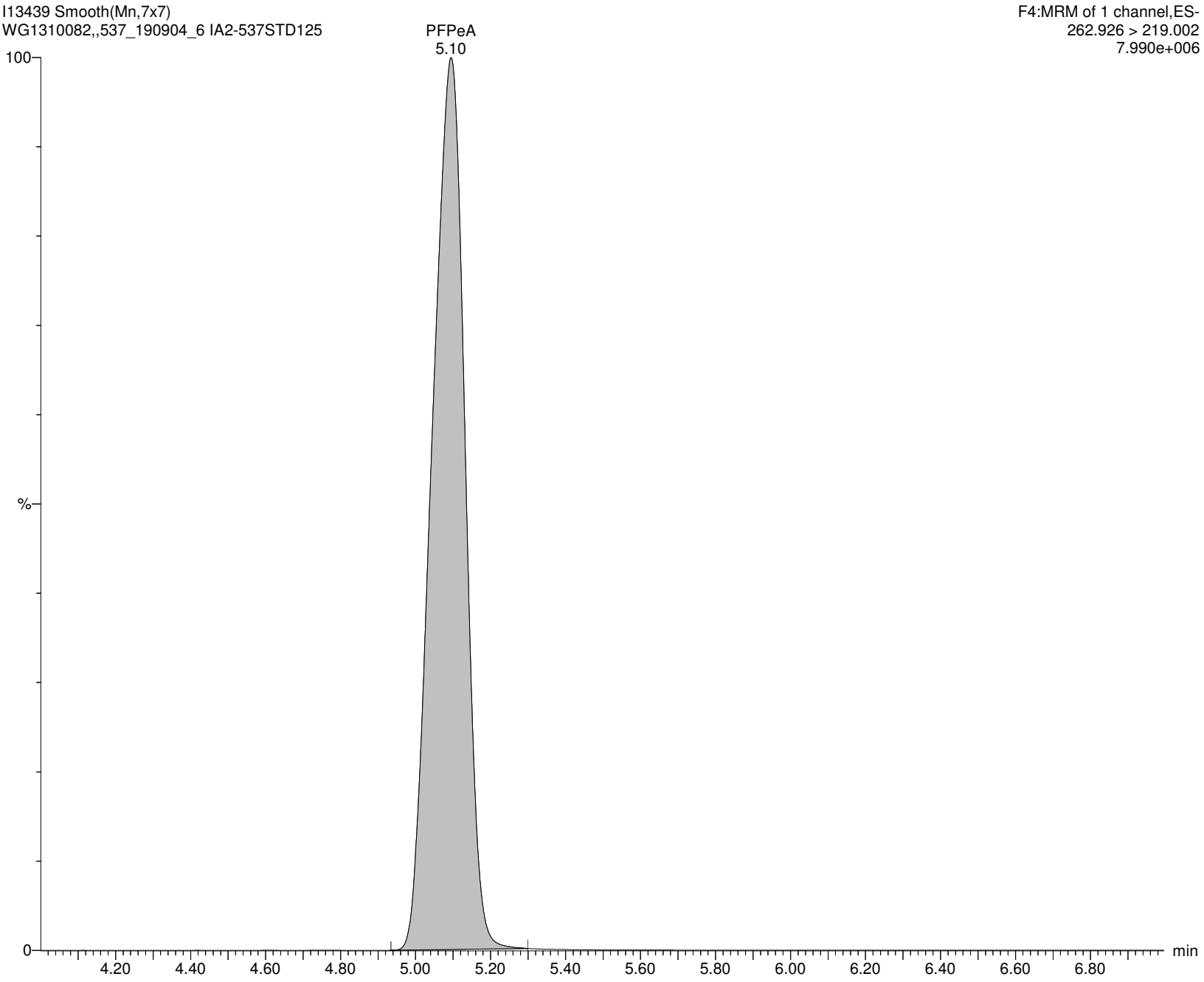

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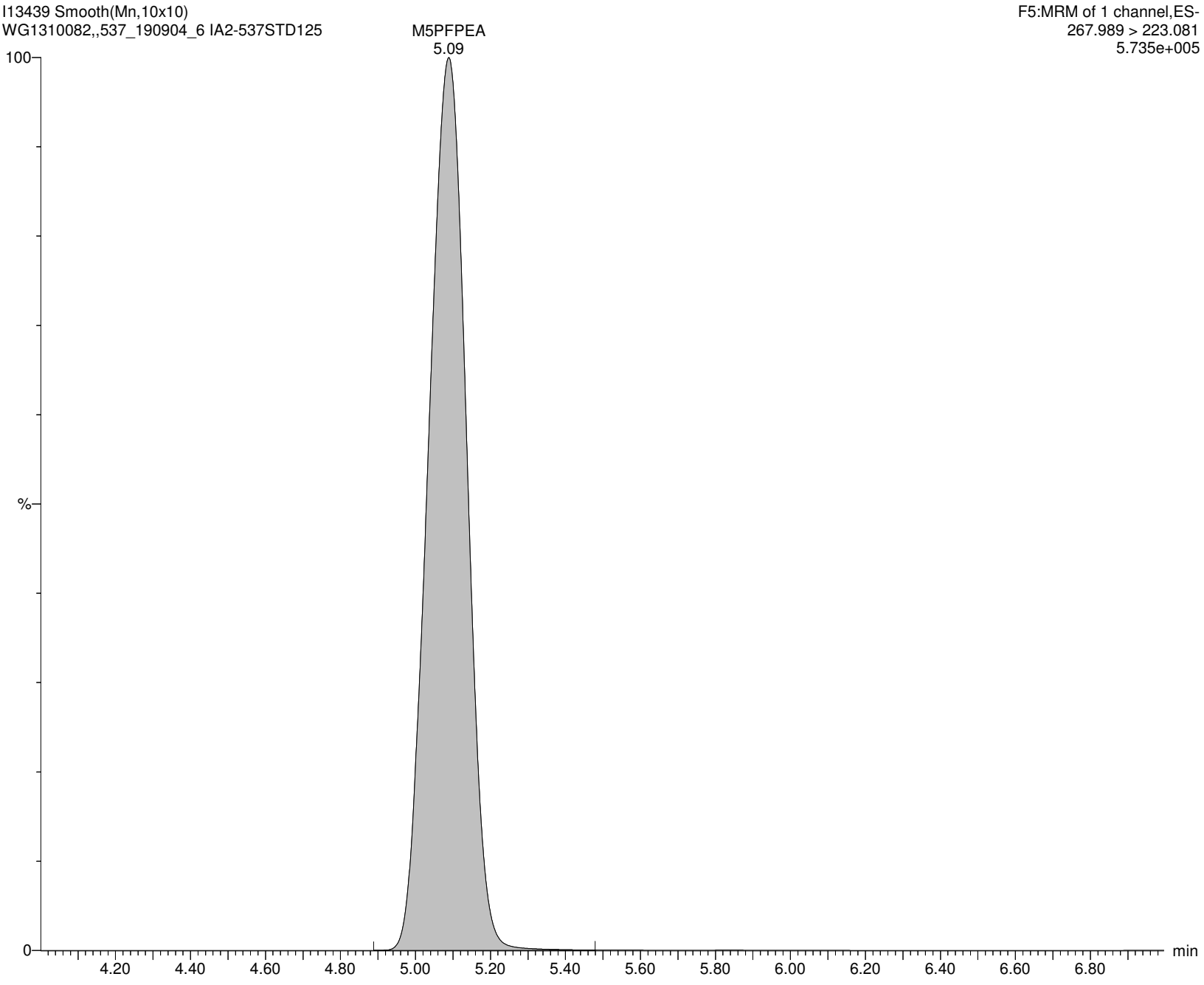

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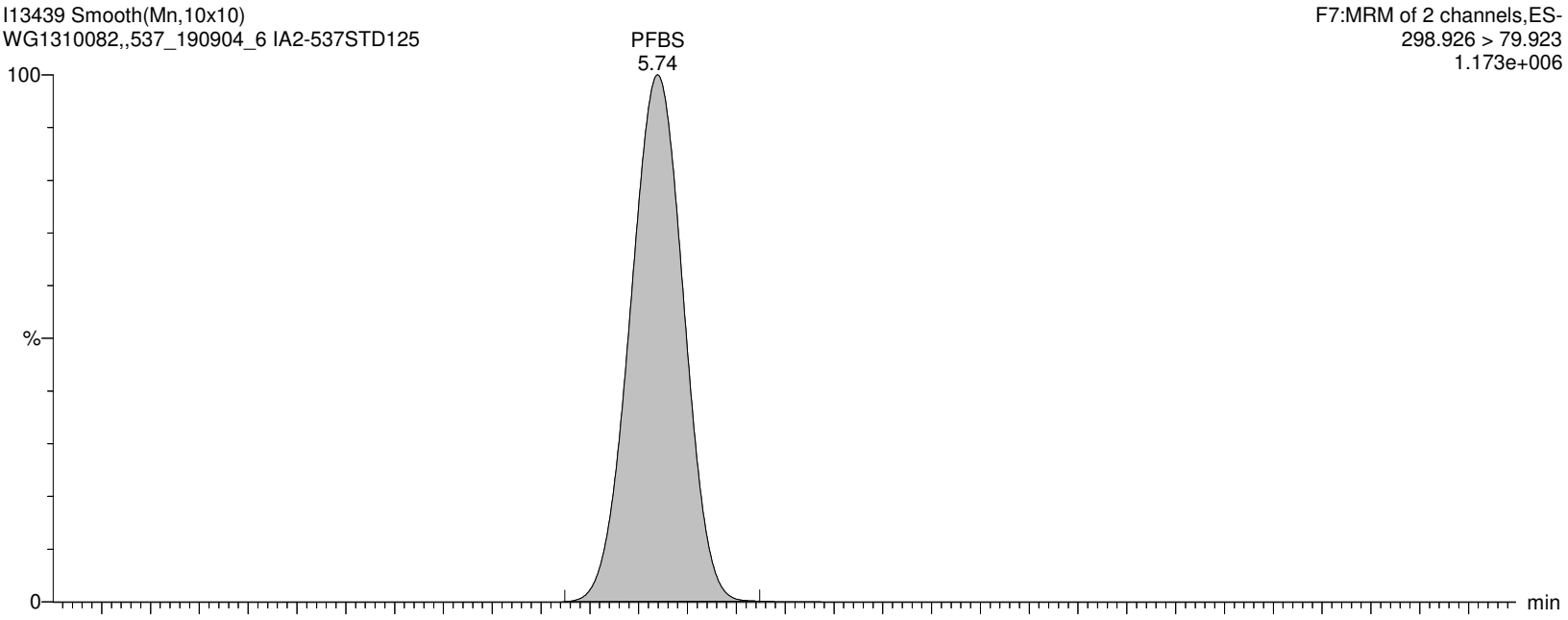

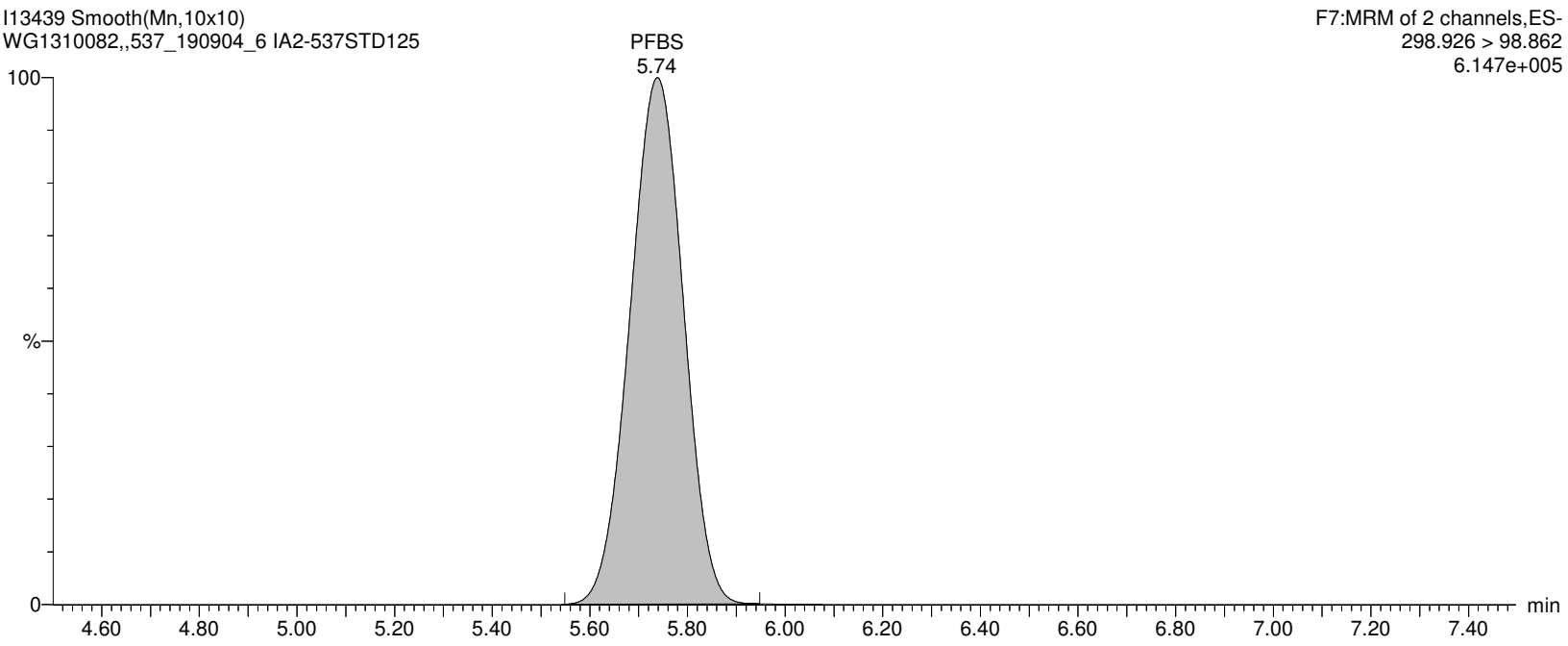

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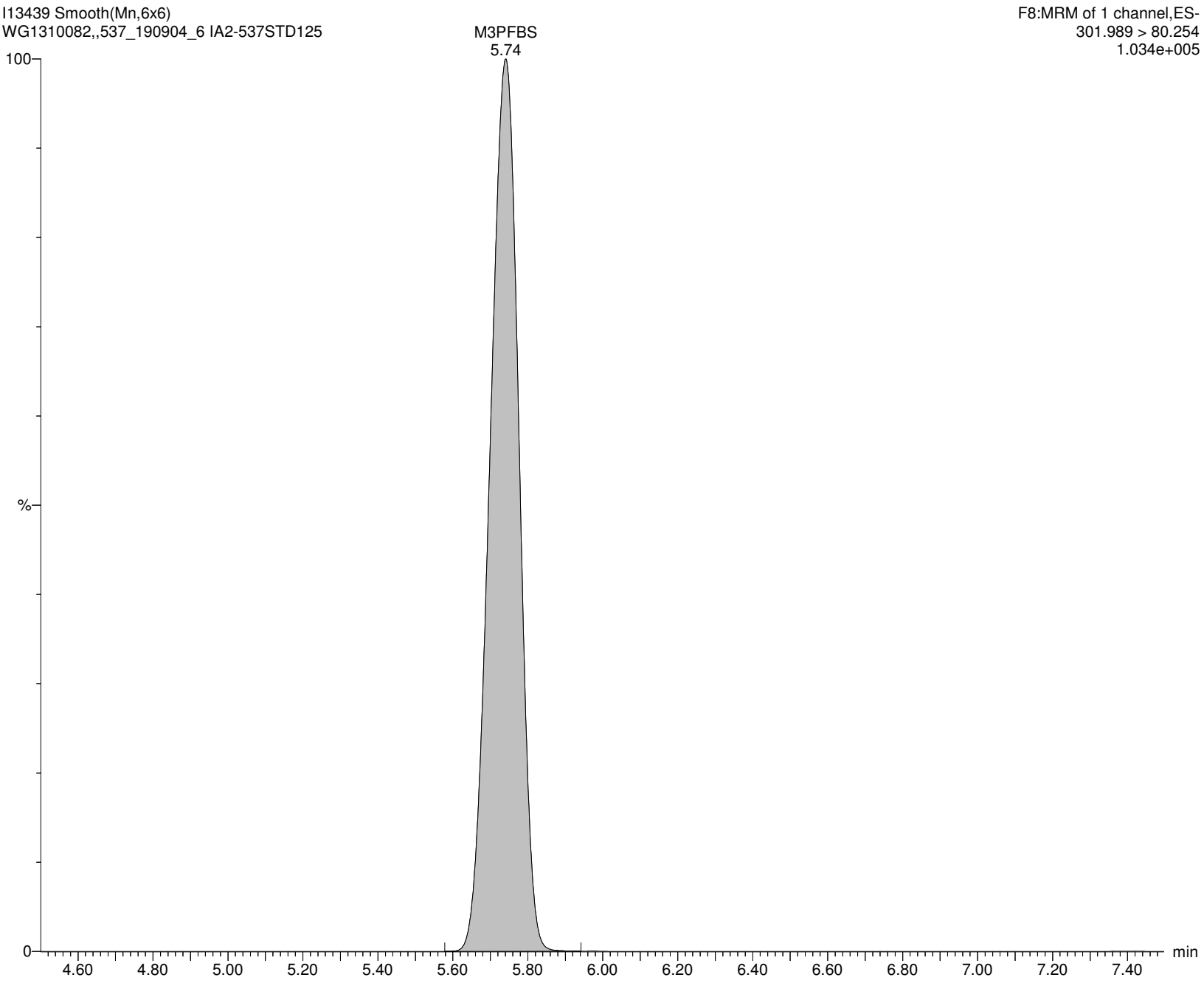

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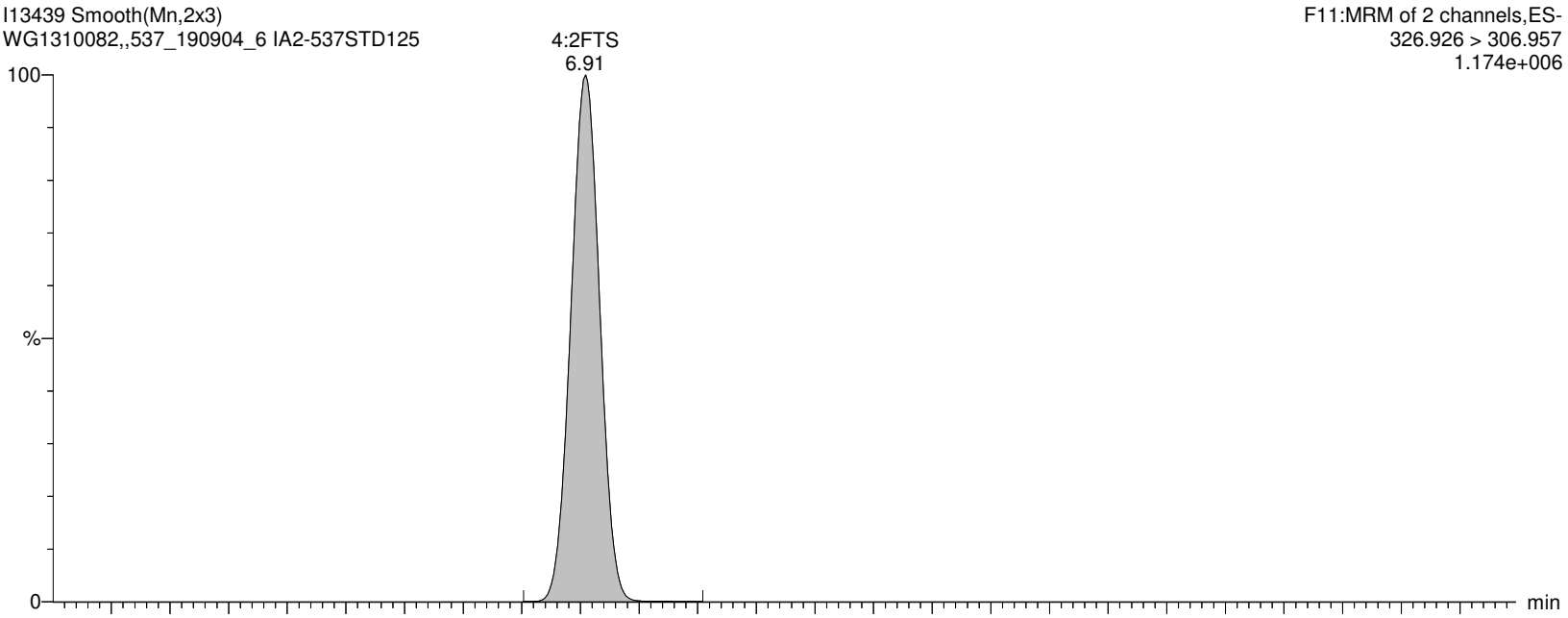

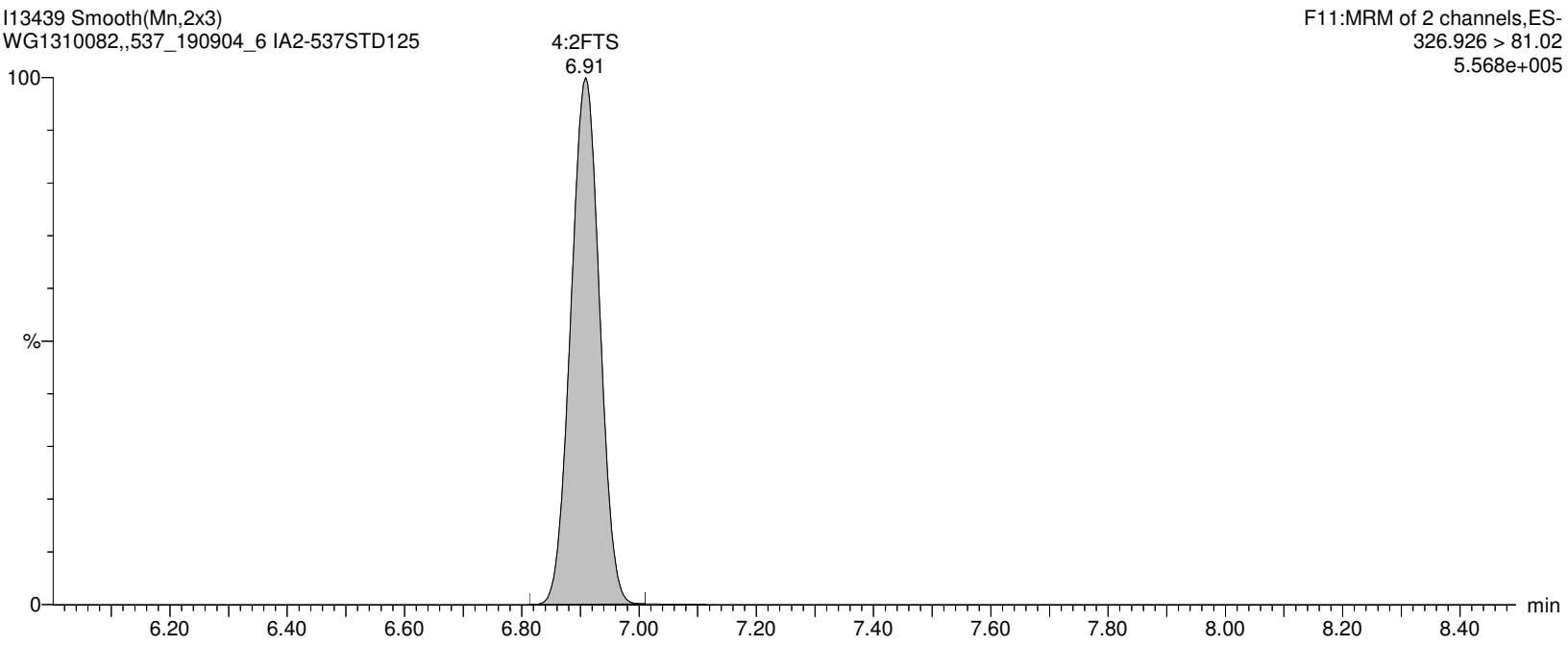

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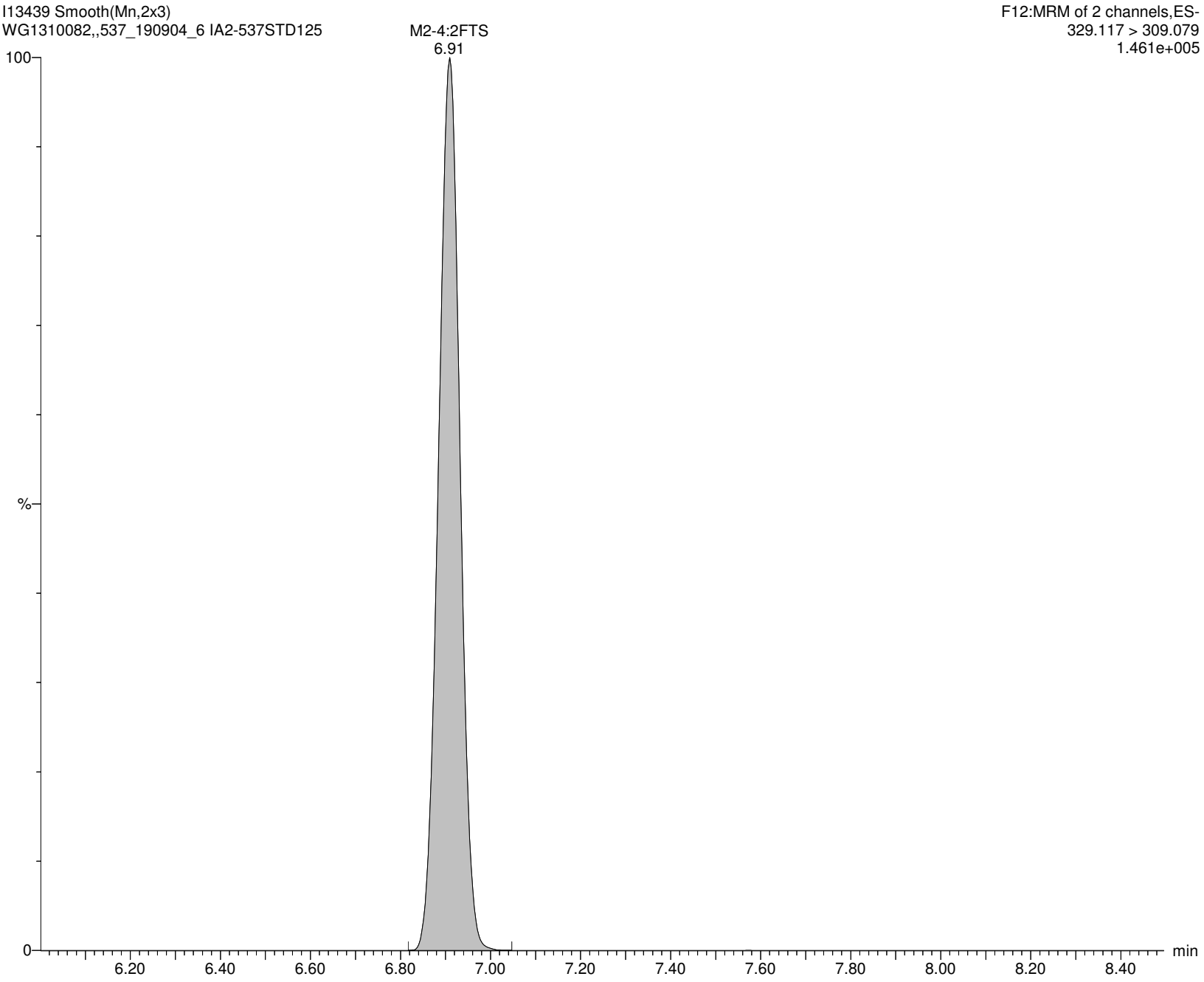

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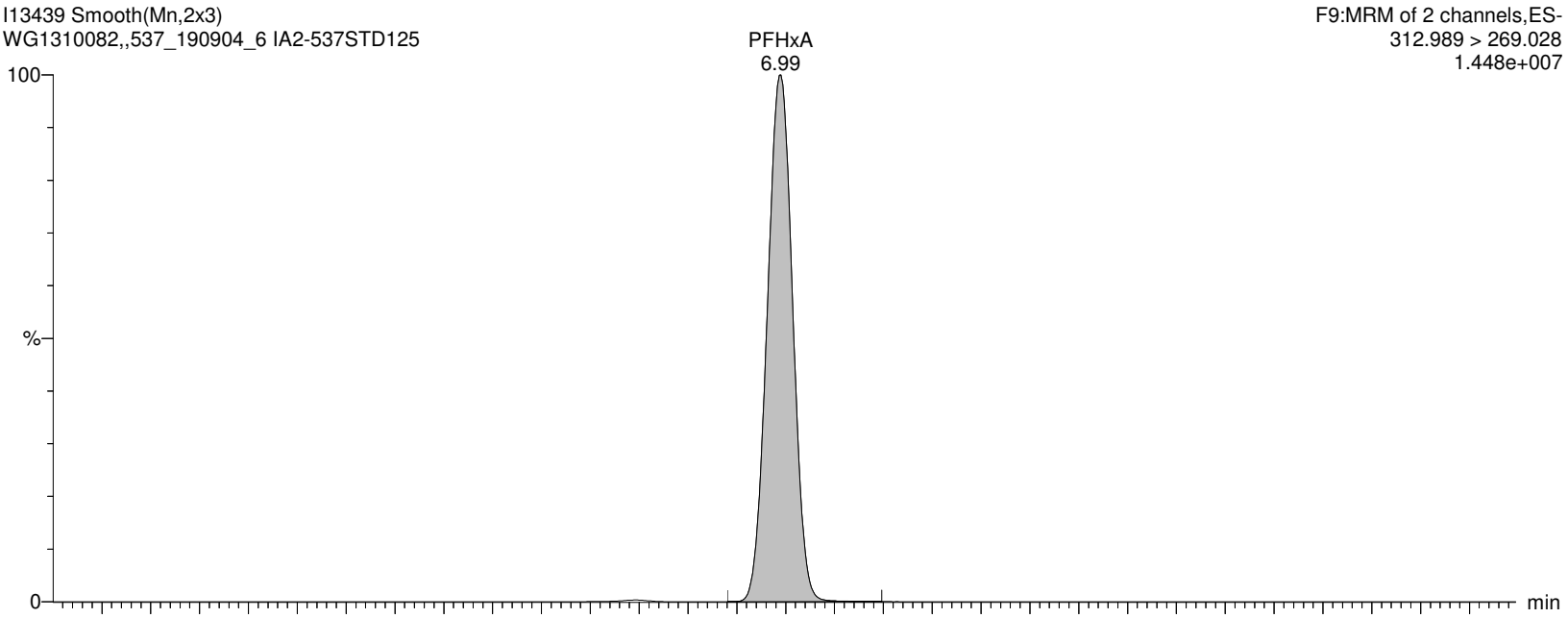

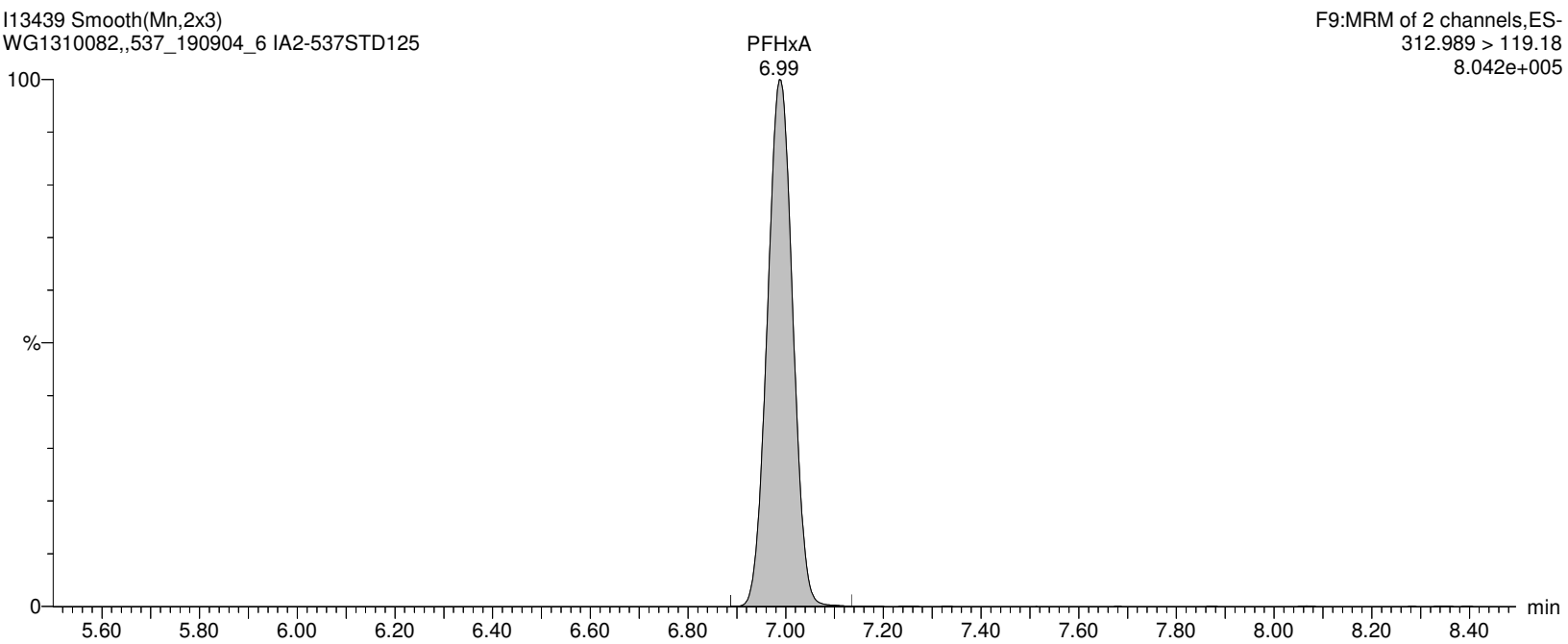

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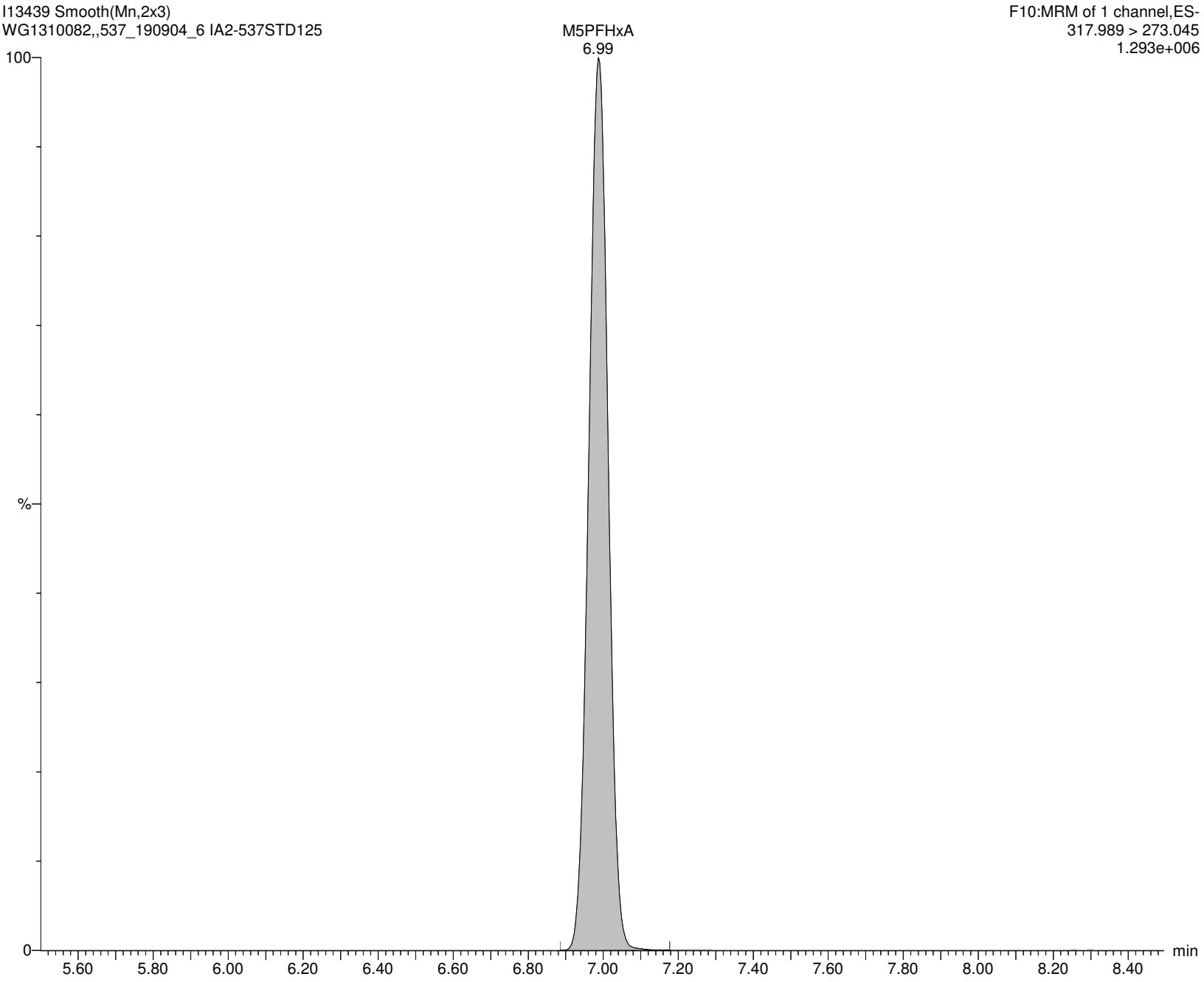

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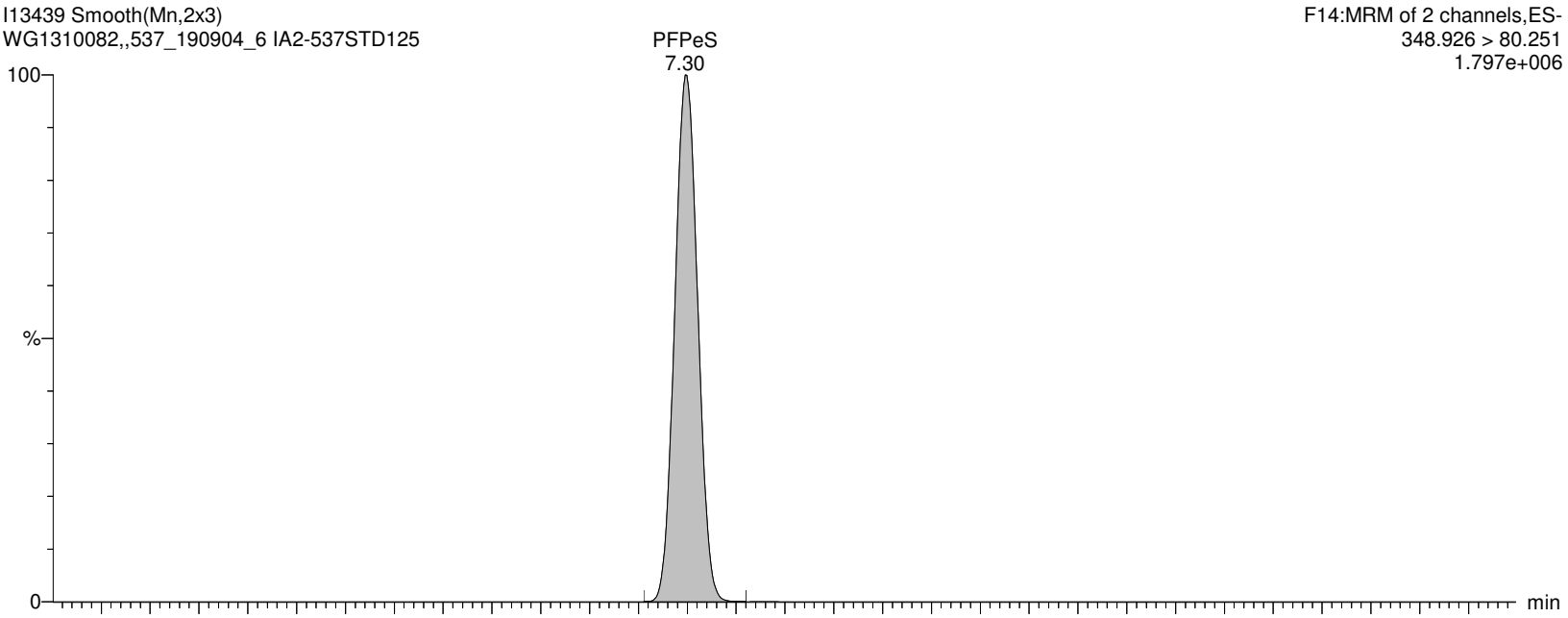

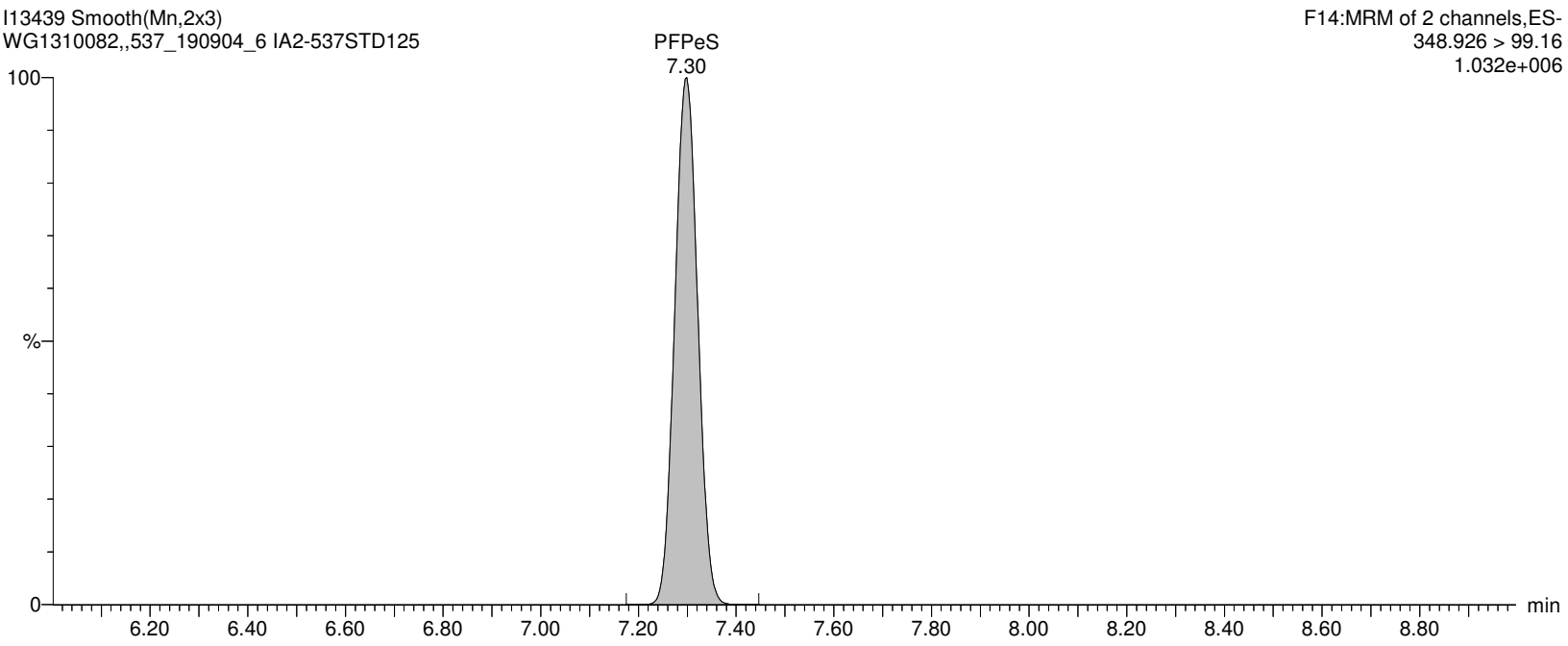

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:59 Eastern Standard Time

Name: I13439
ID: IA2-537STD125
Date: 18-Nov-2019
Time: 12:00:10
Description: WG1310082,,537_190904_6
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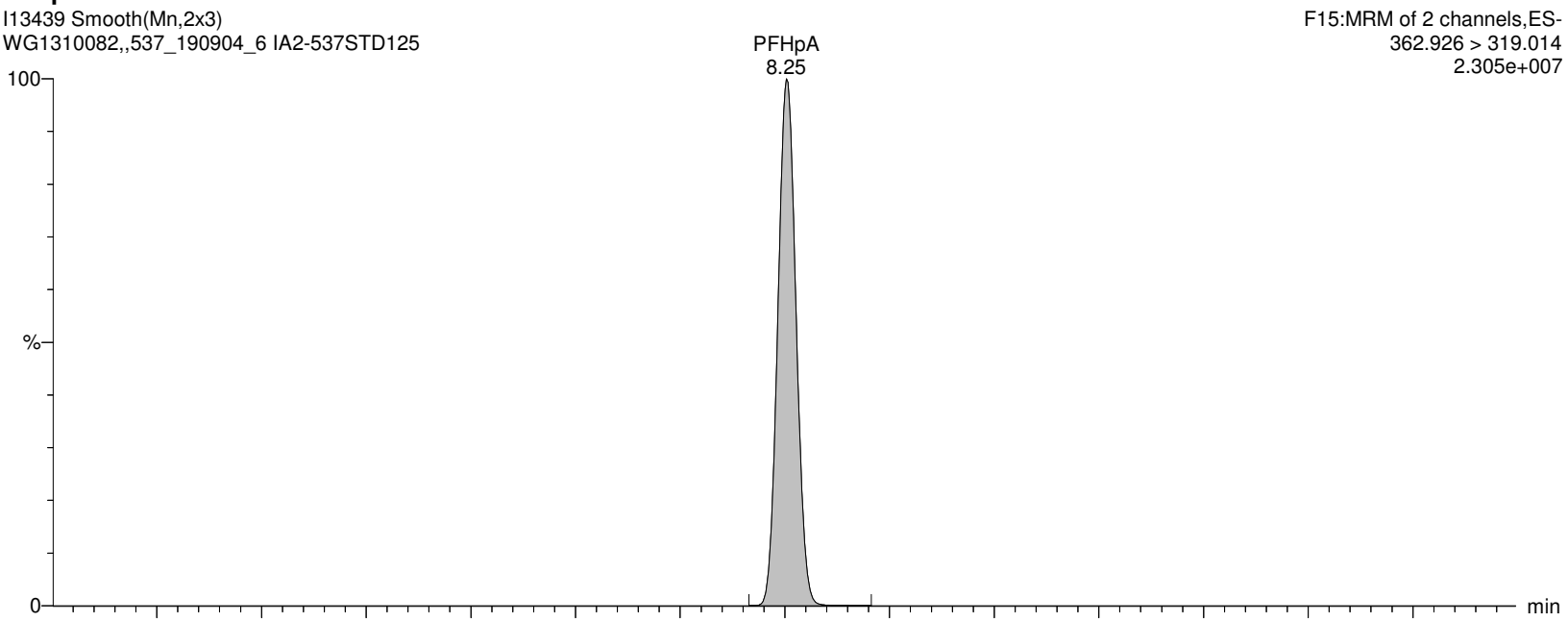

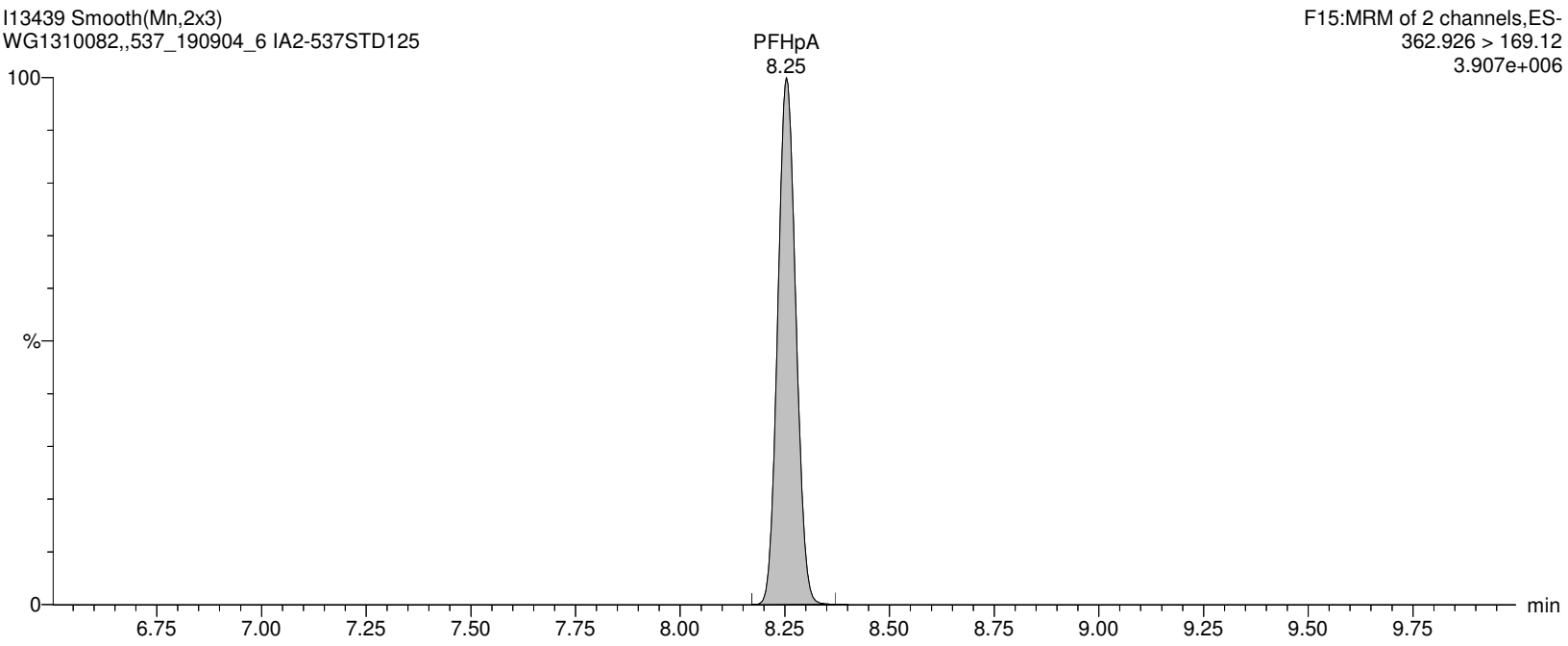

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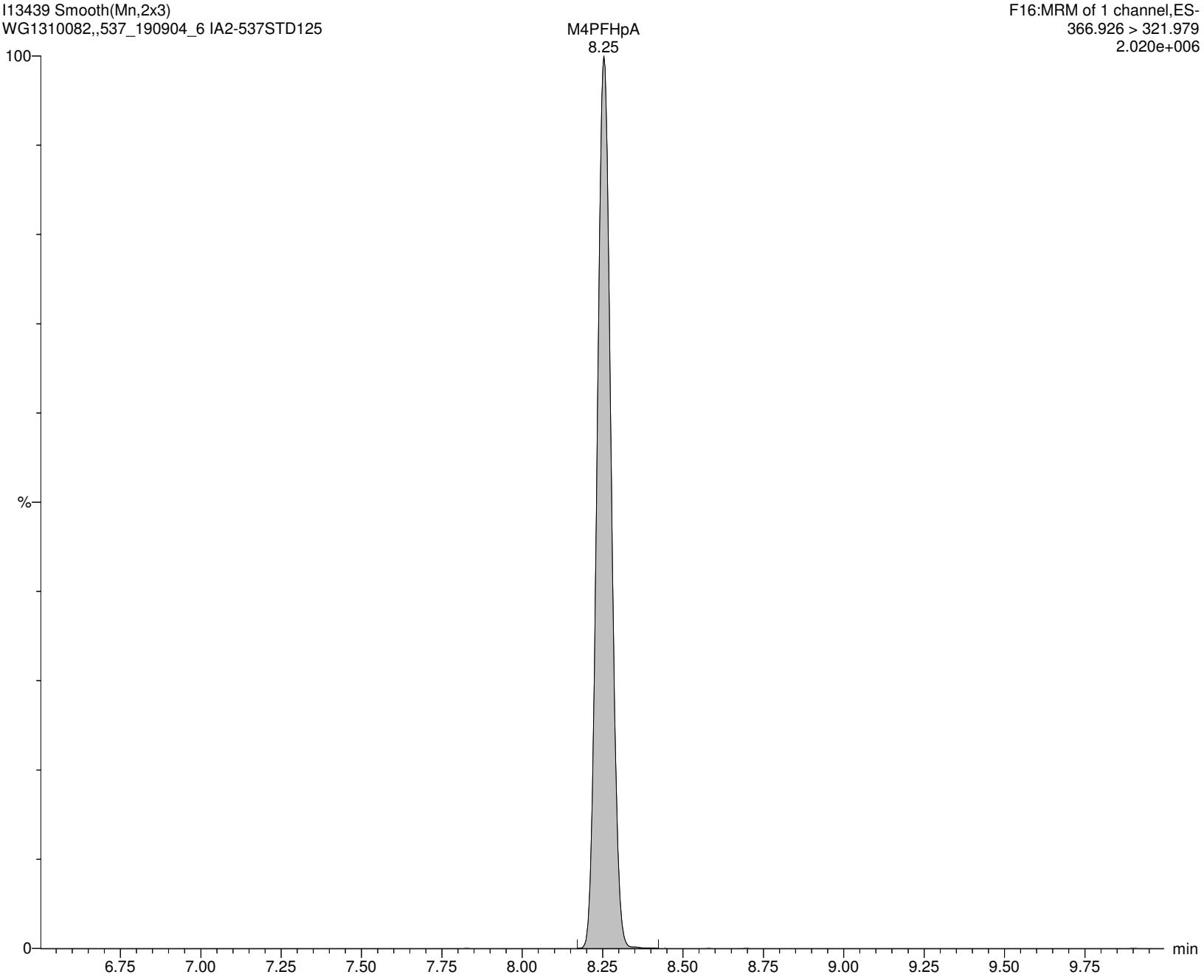

all concentration units in (ng/mL)

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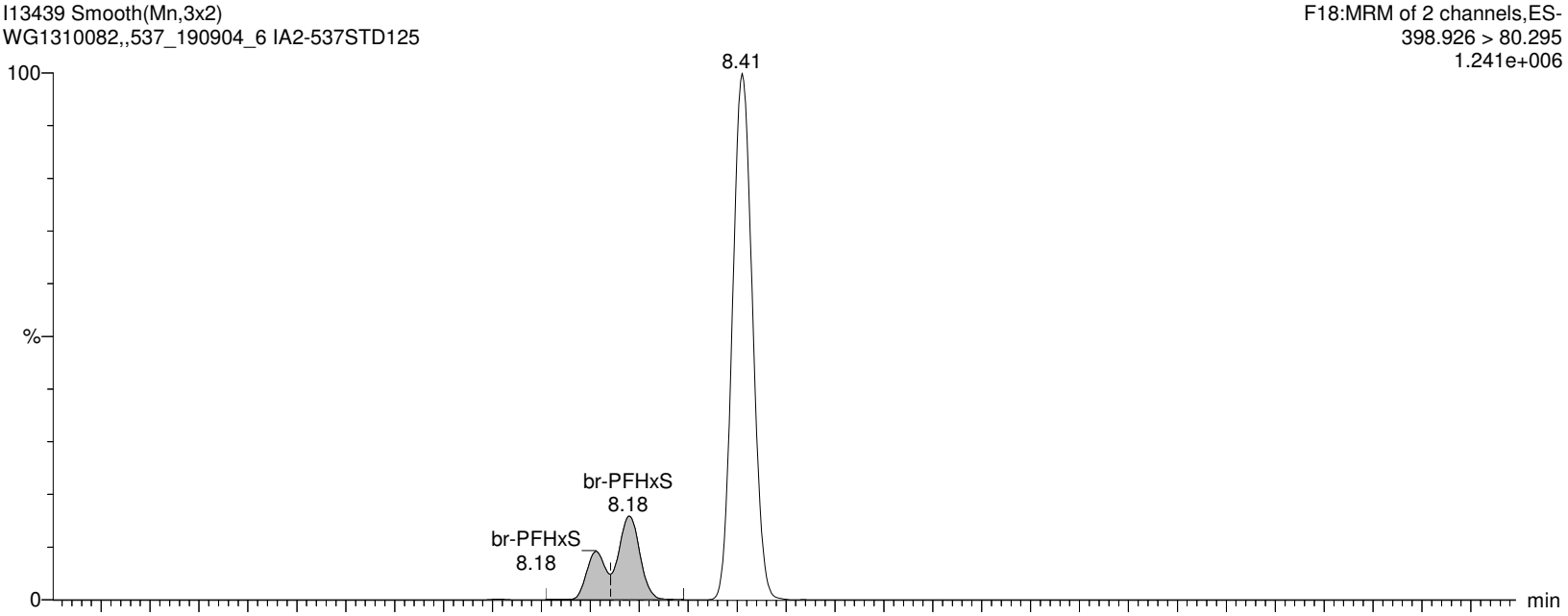

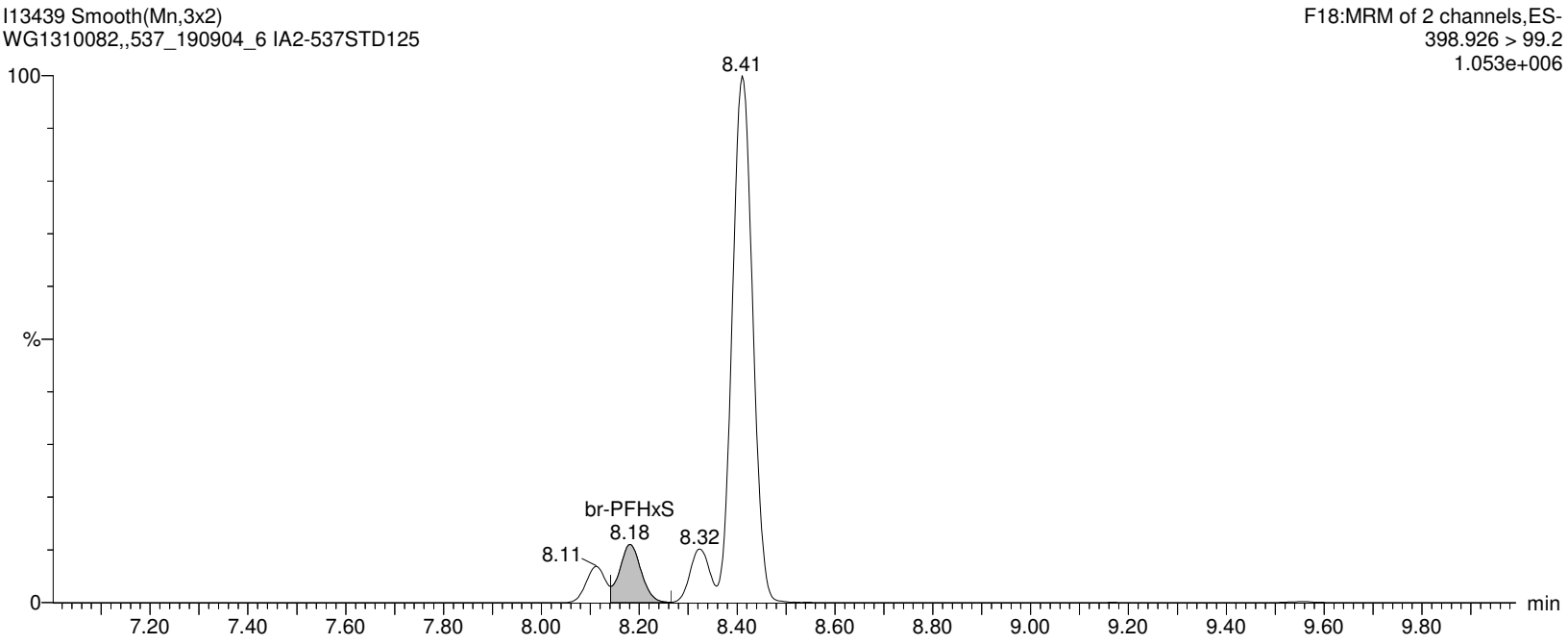

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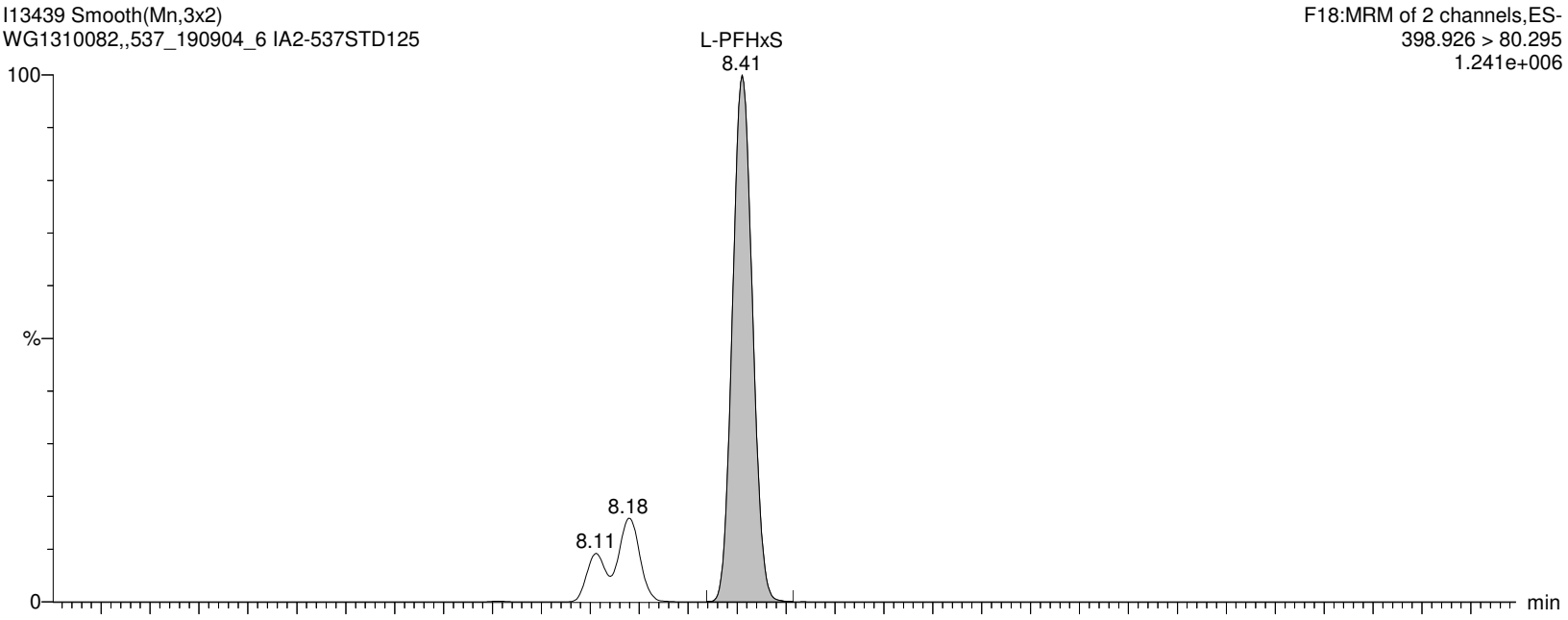

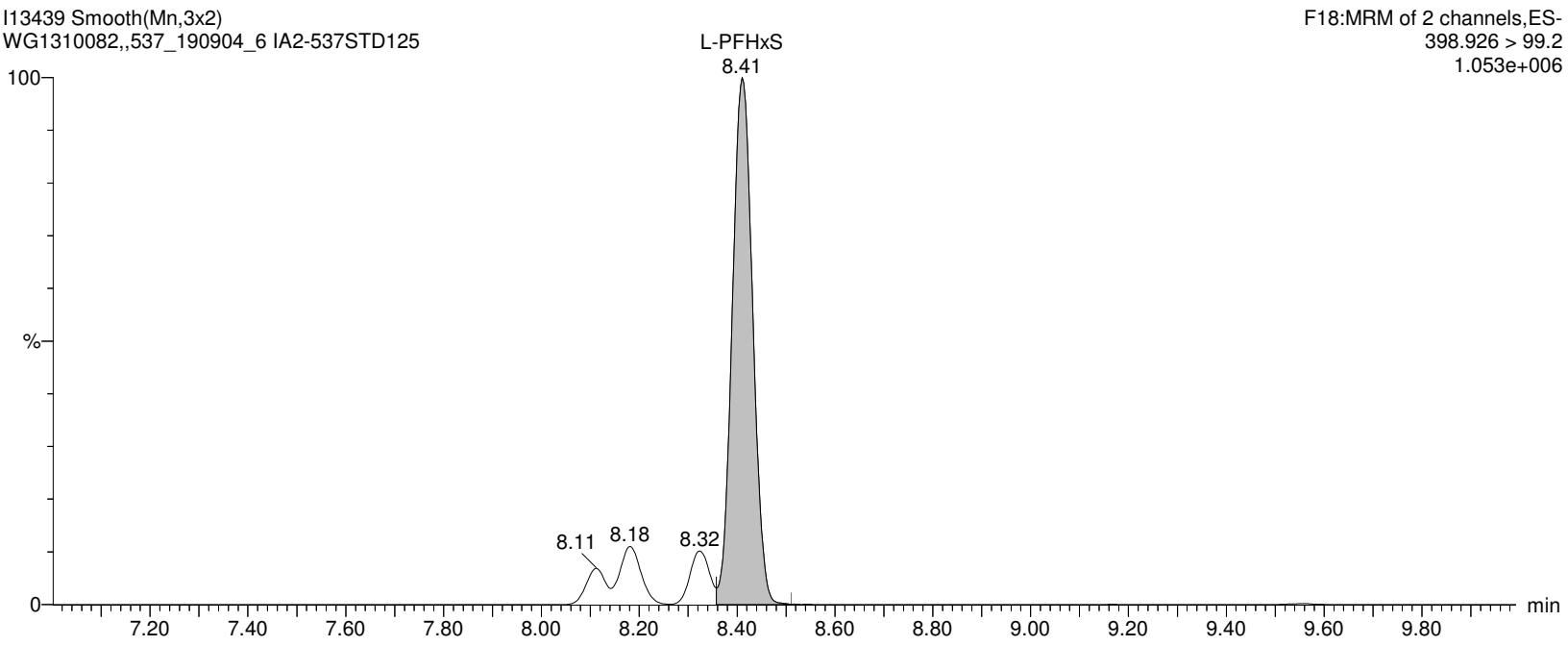

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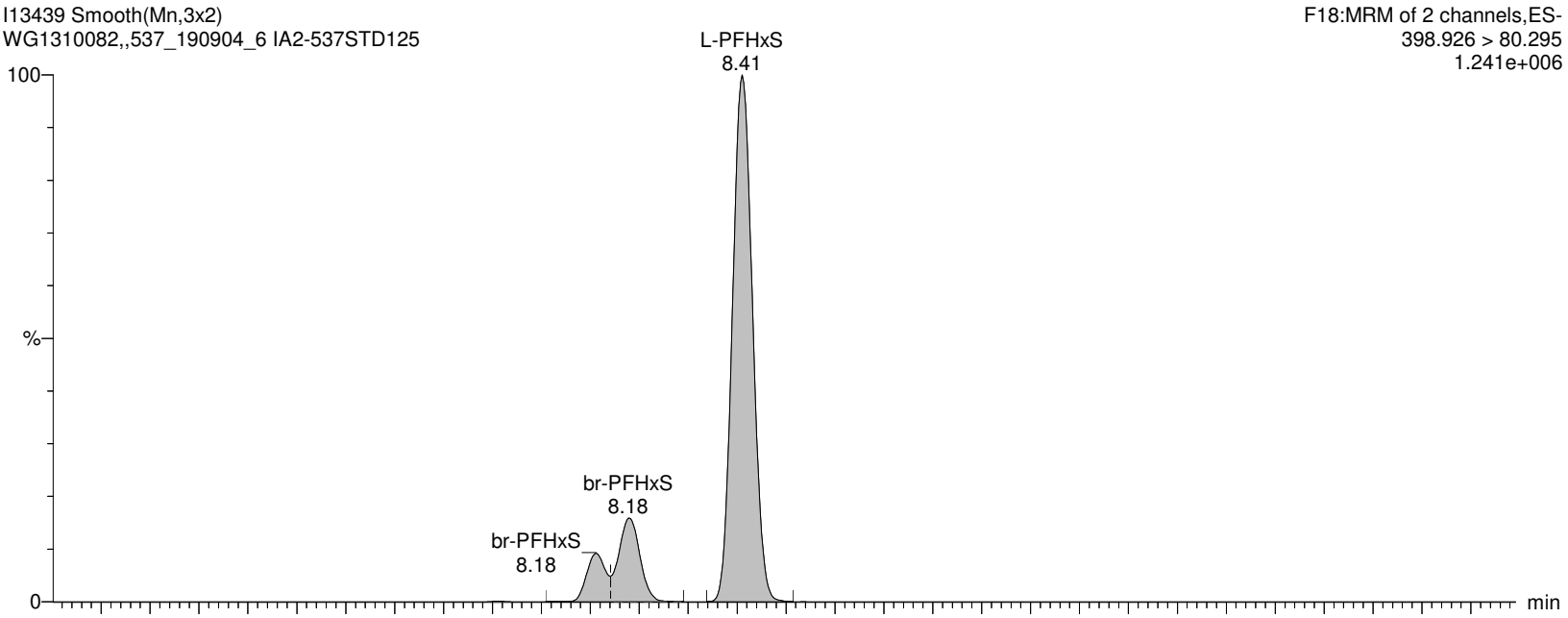

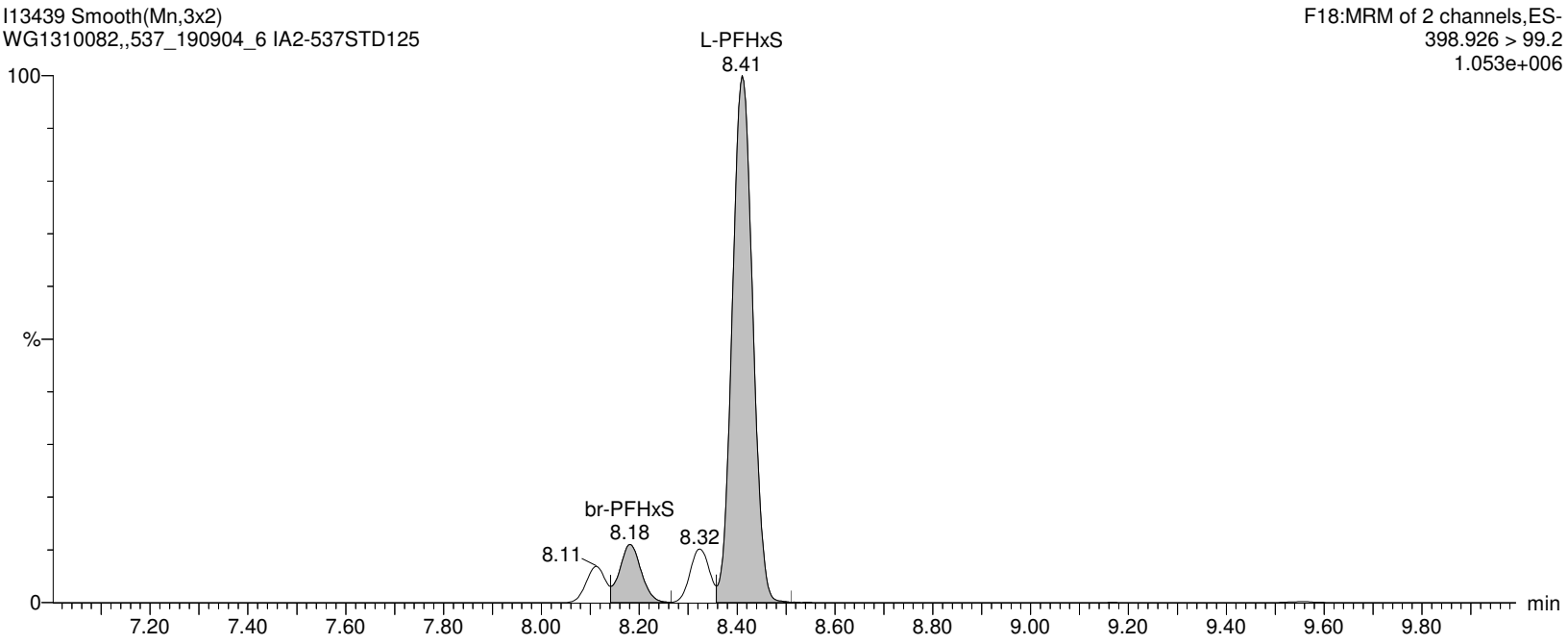

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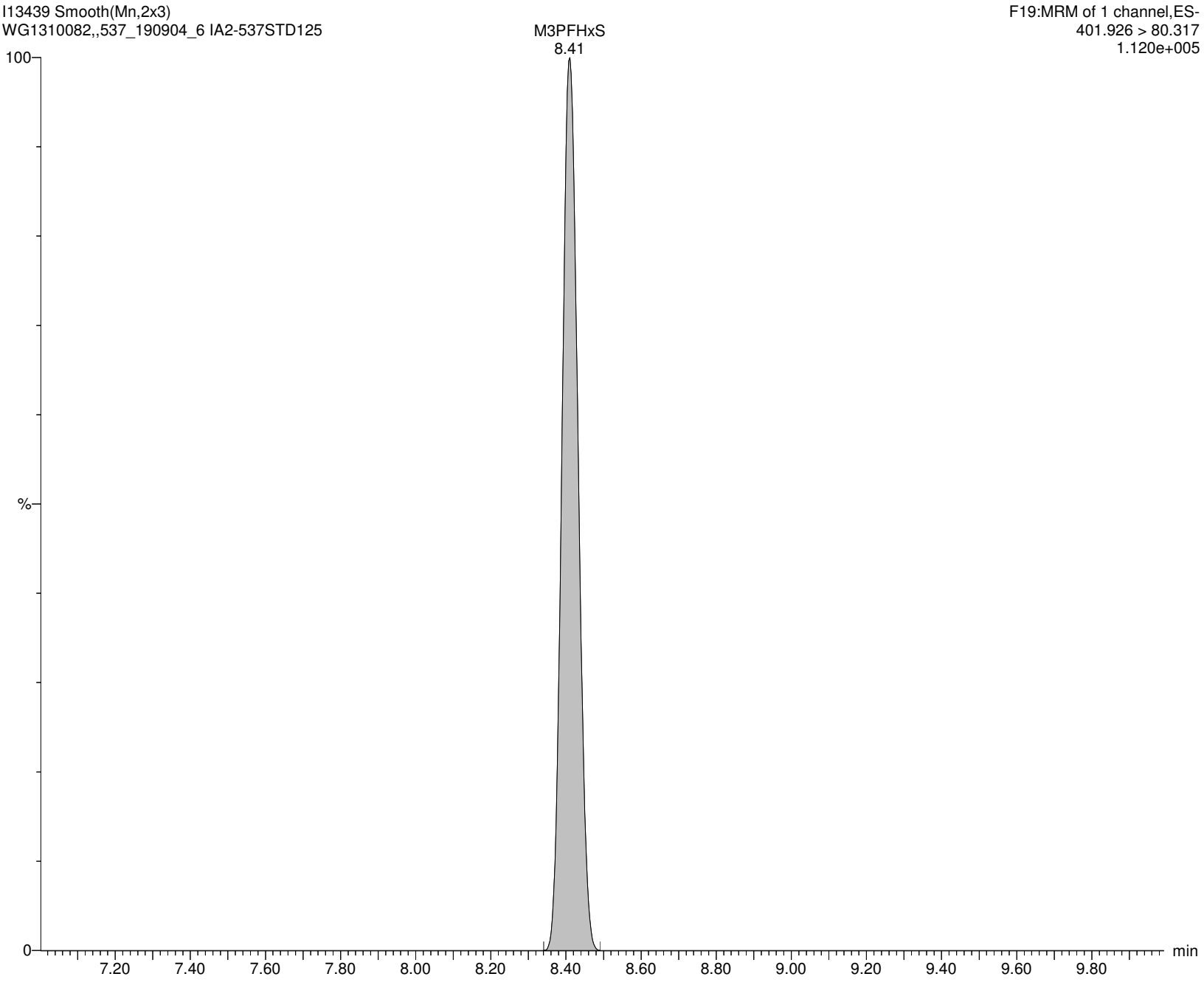

all concentration units in (ng/mL)

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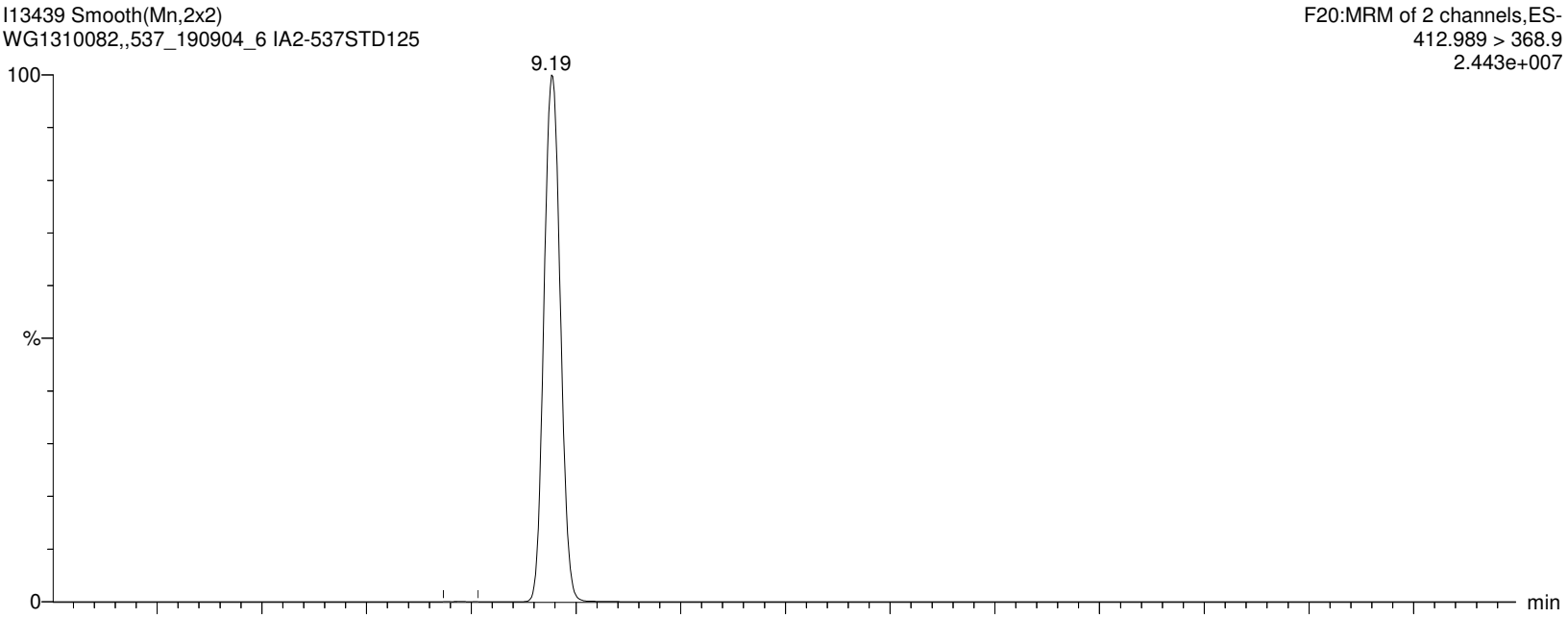

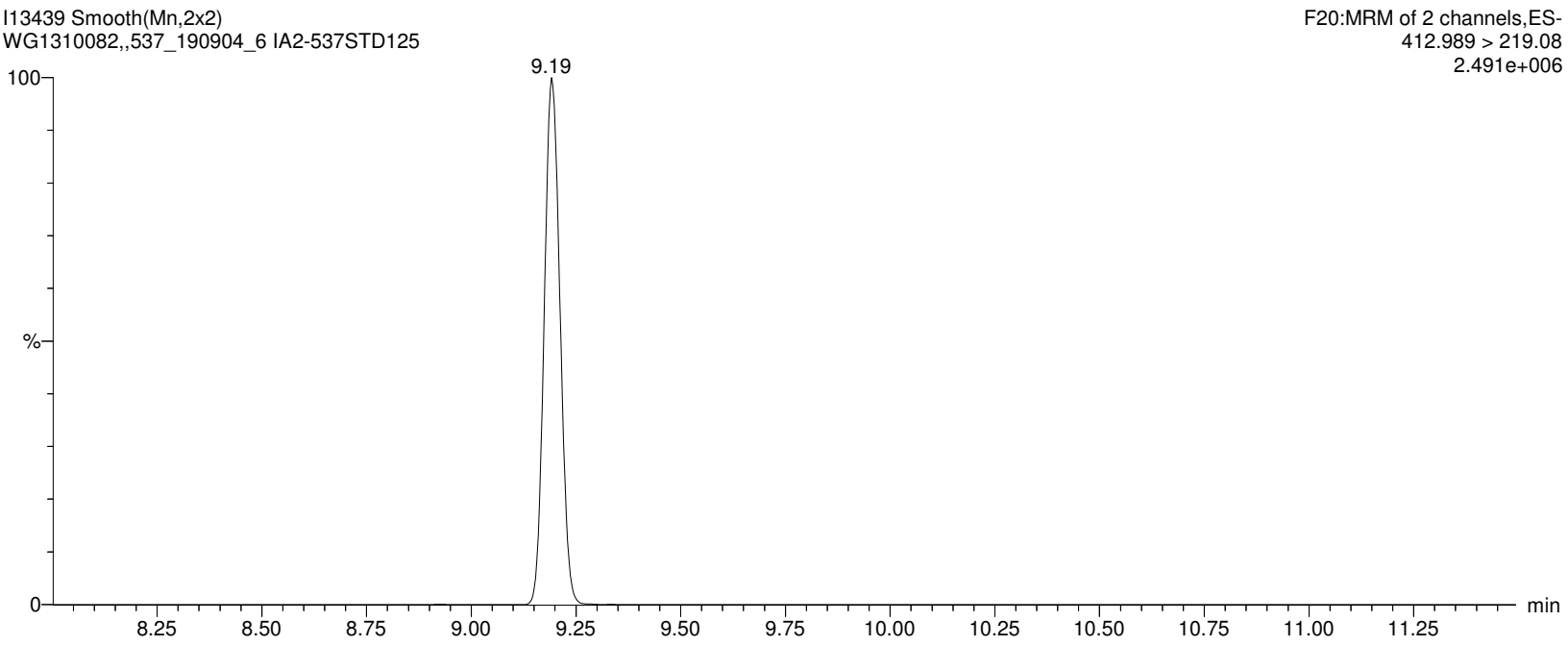

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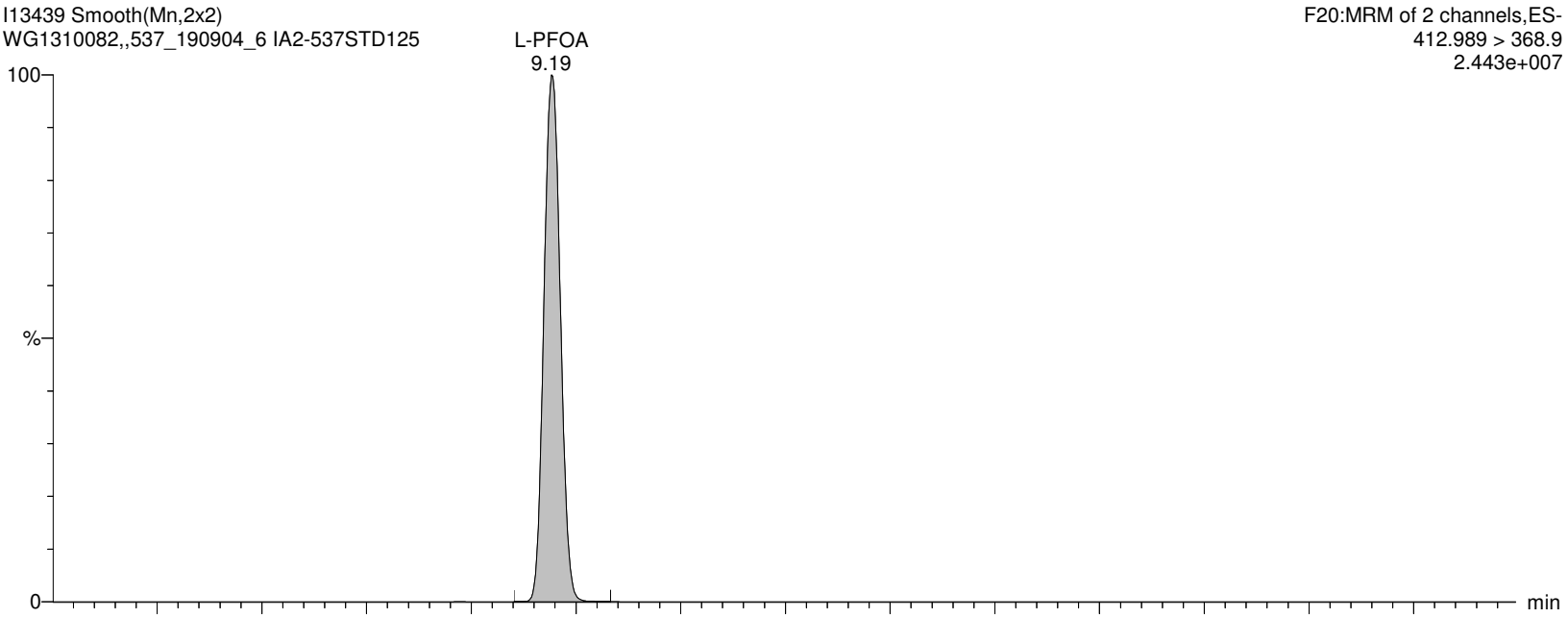

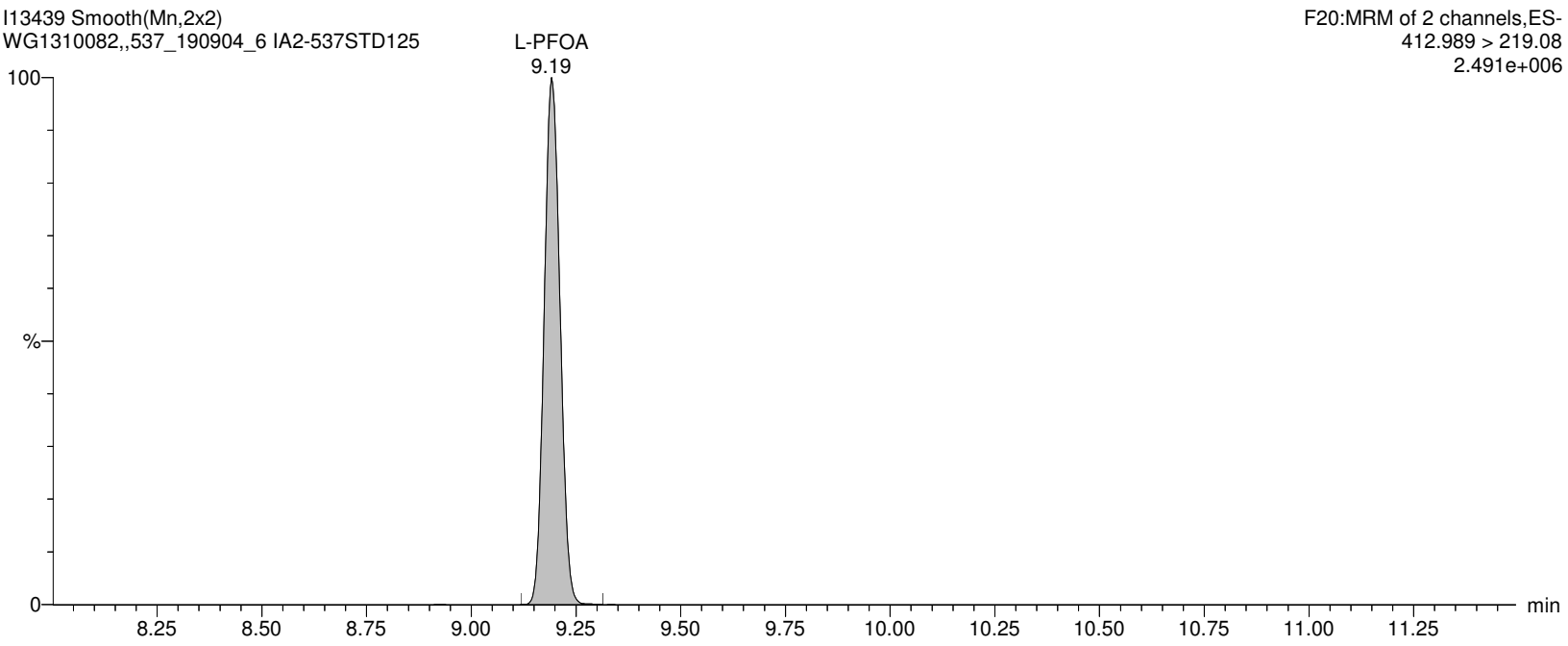

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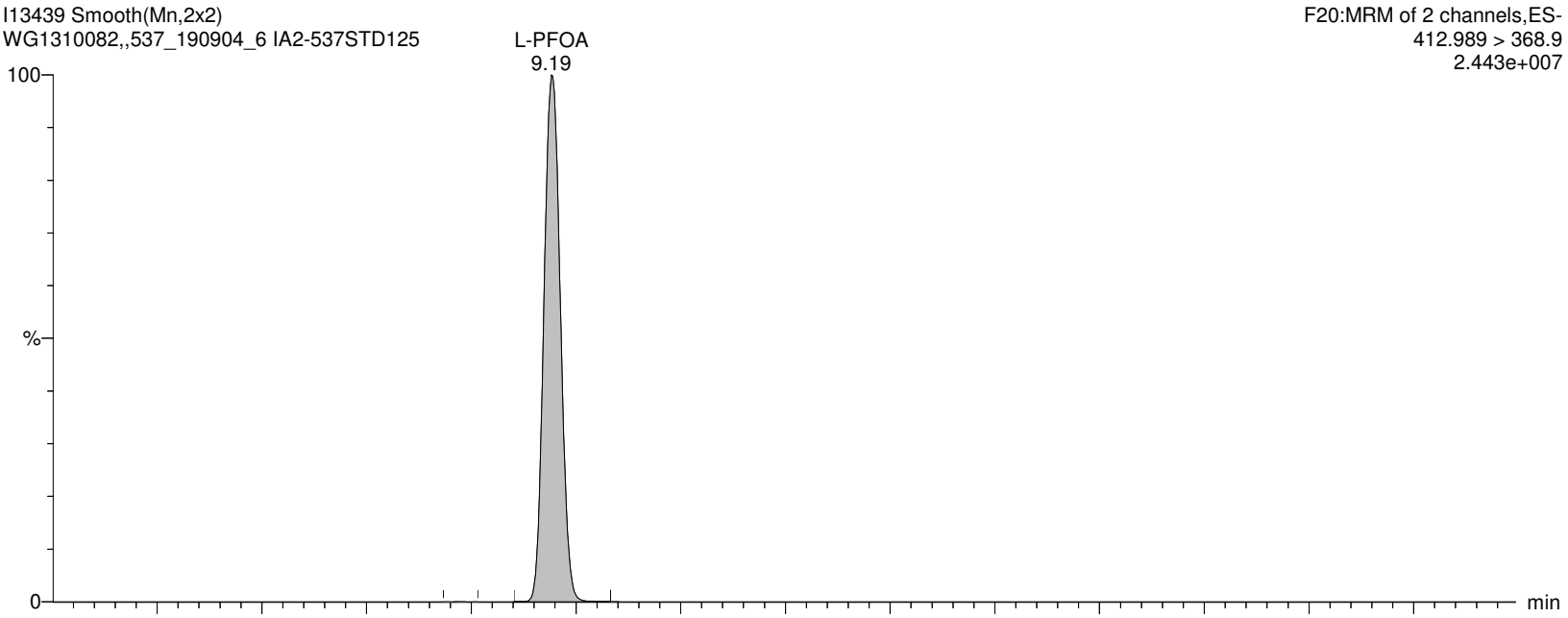

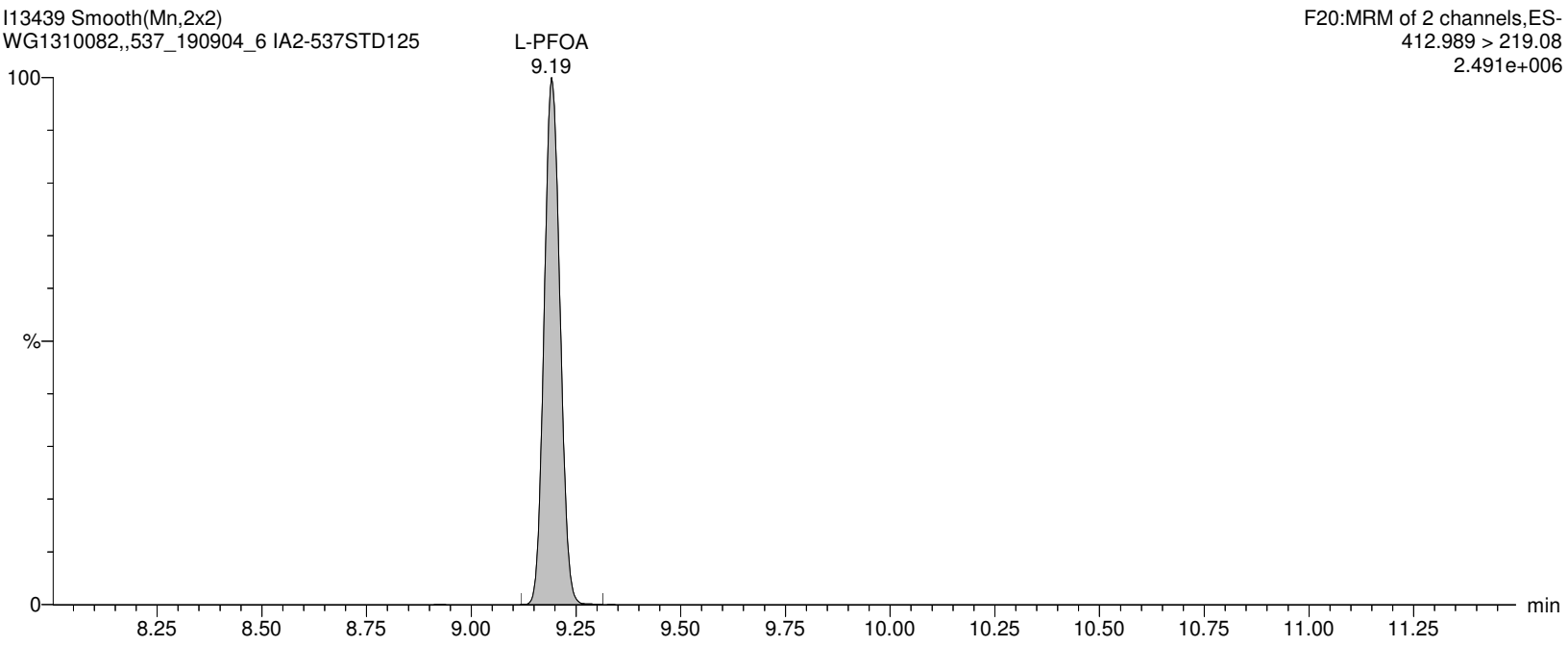

all concentration units in (ng/mL)

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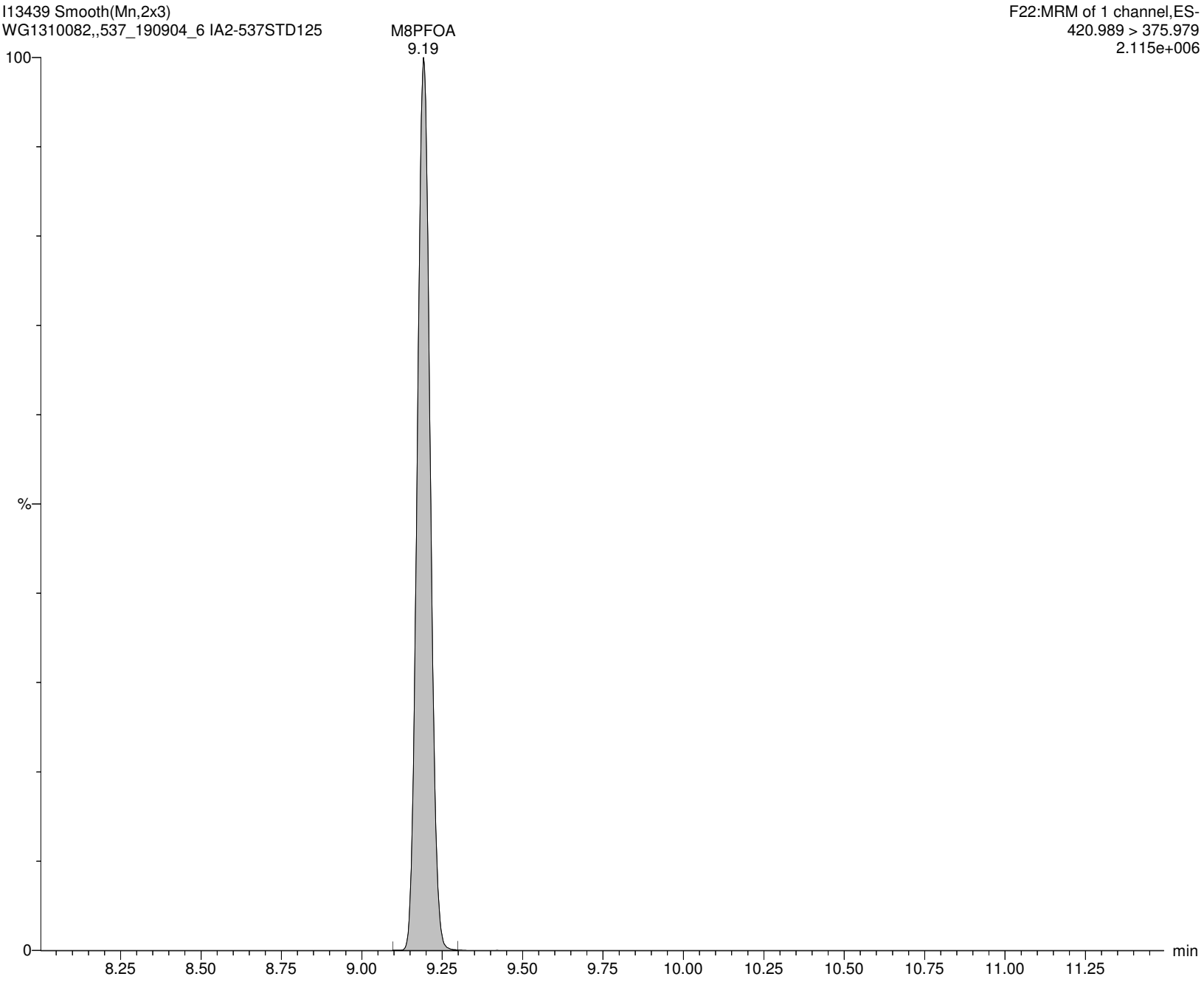

all concentration units in (ng/mL)

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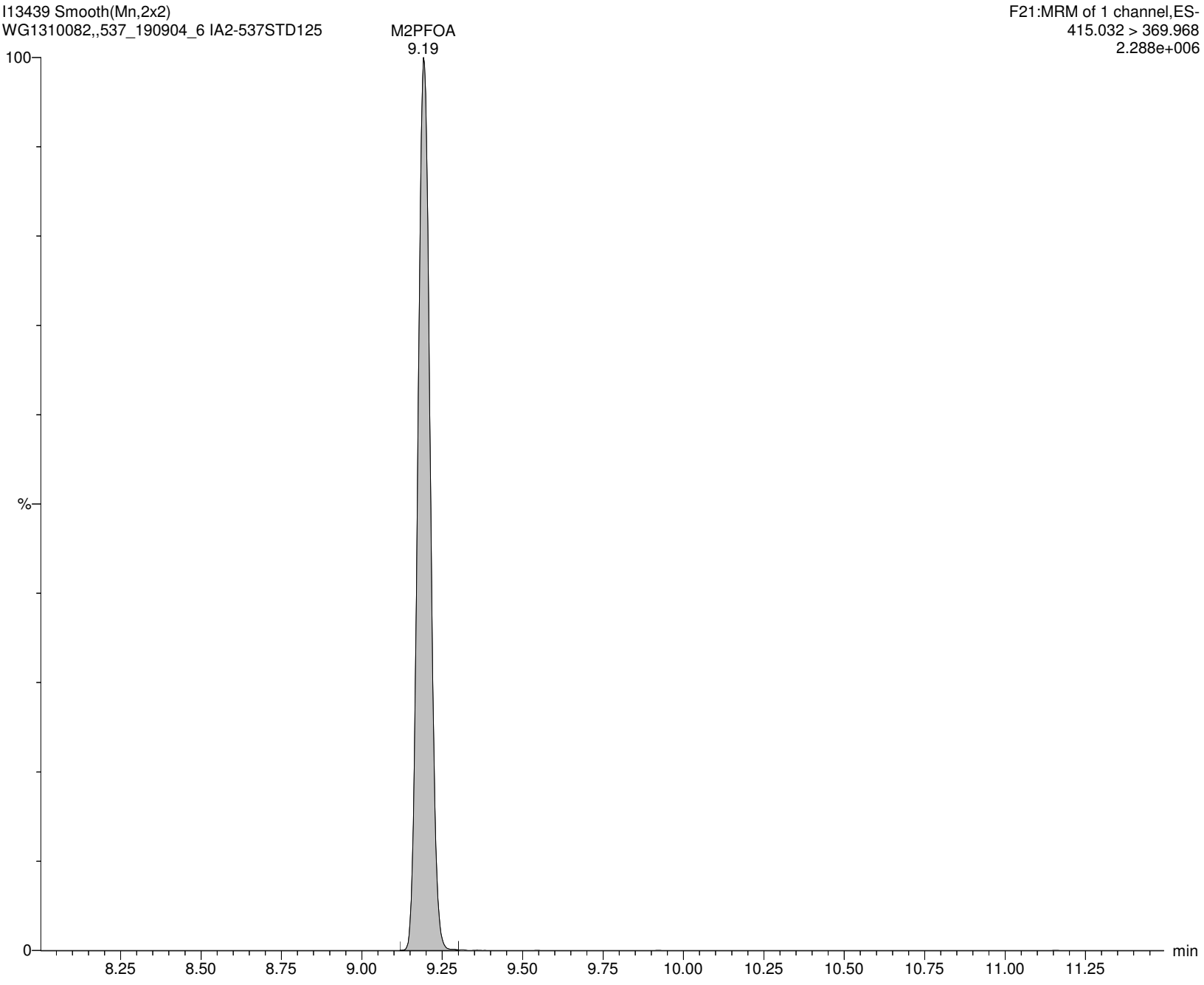

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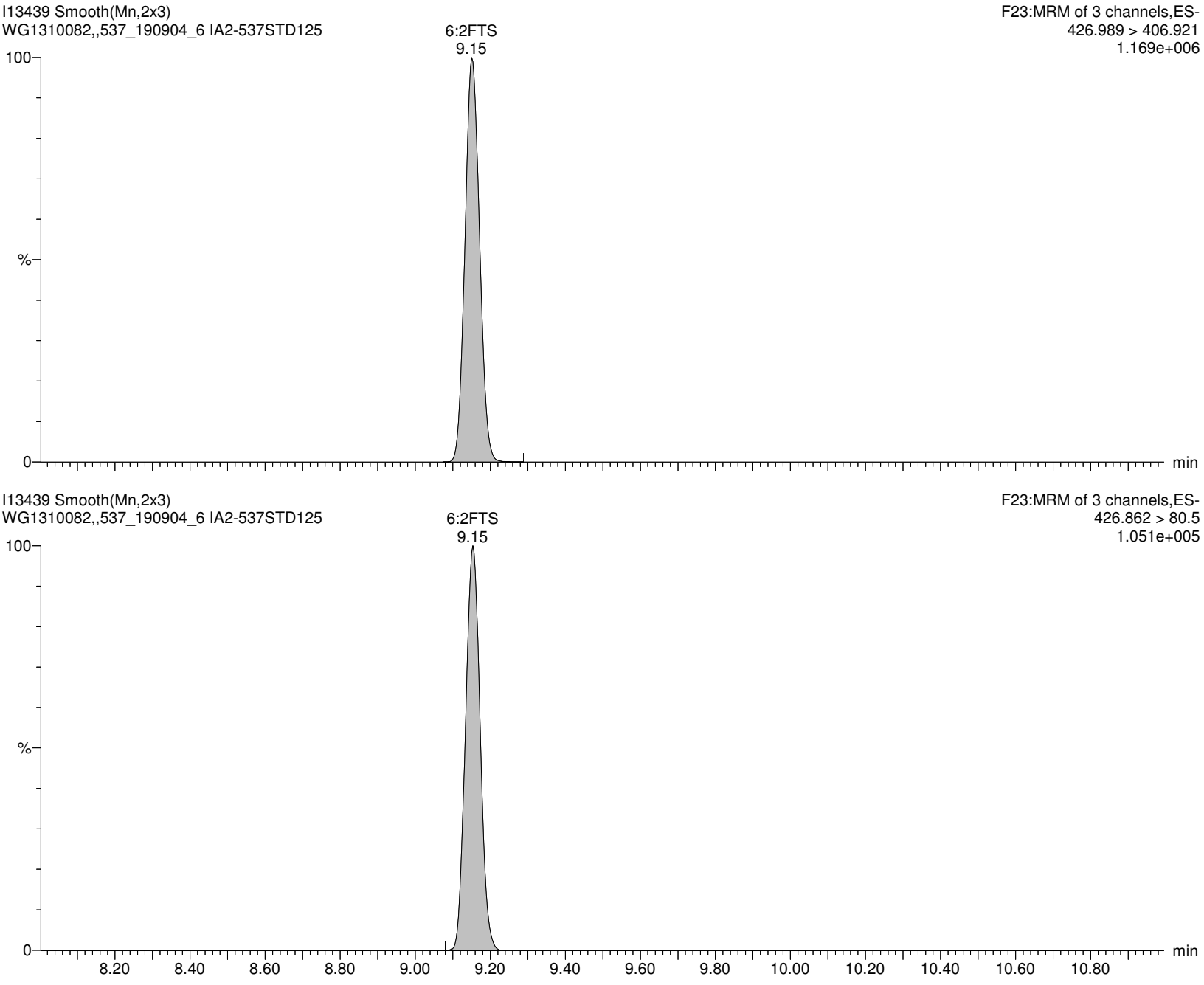

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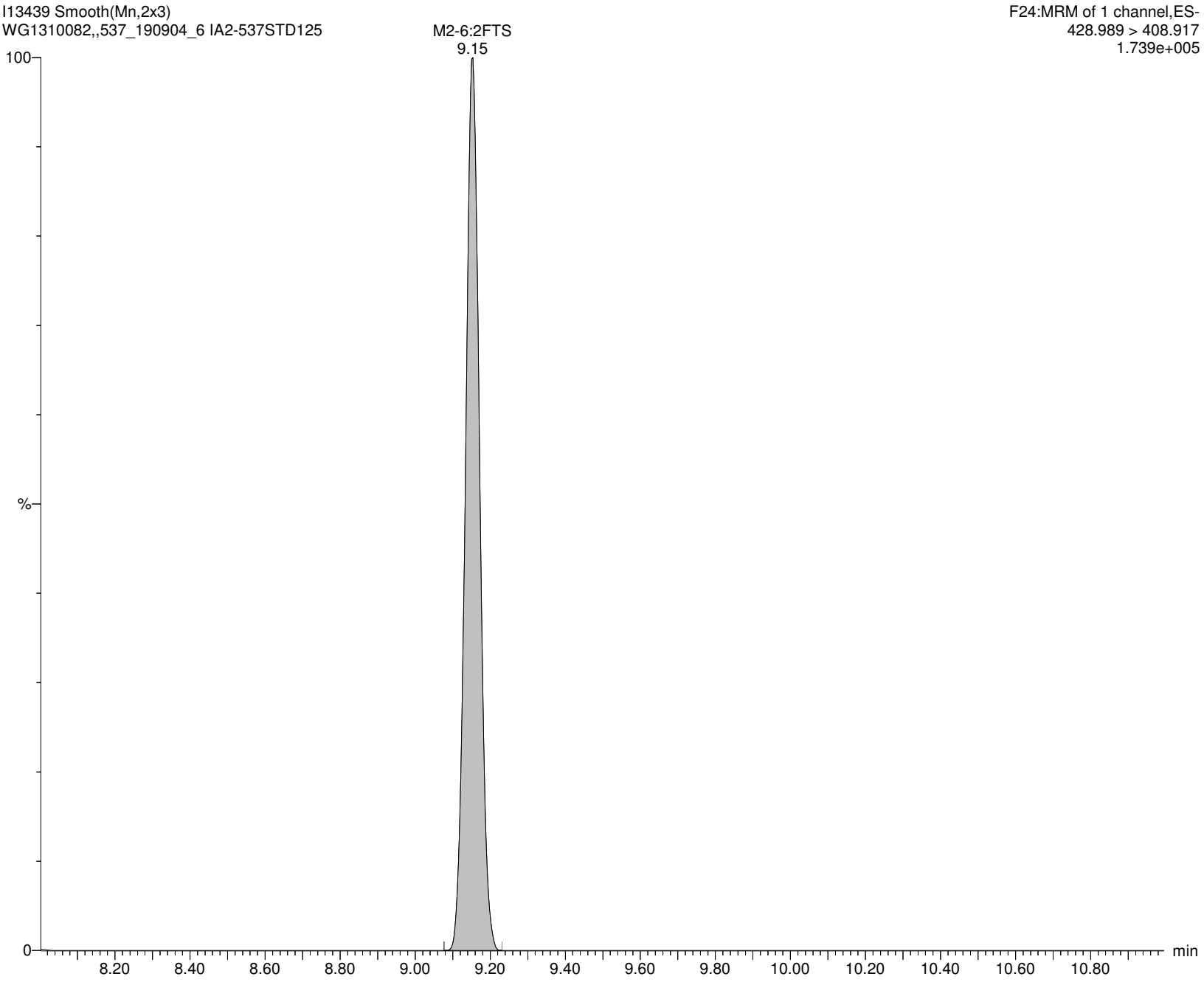

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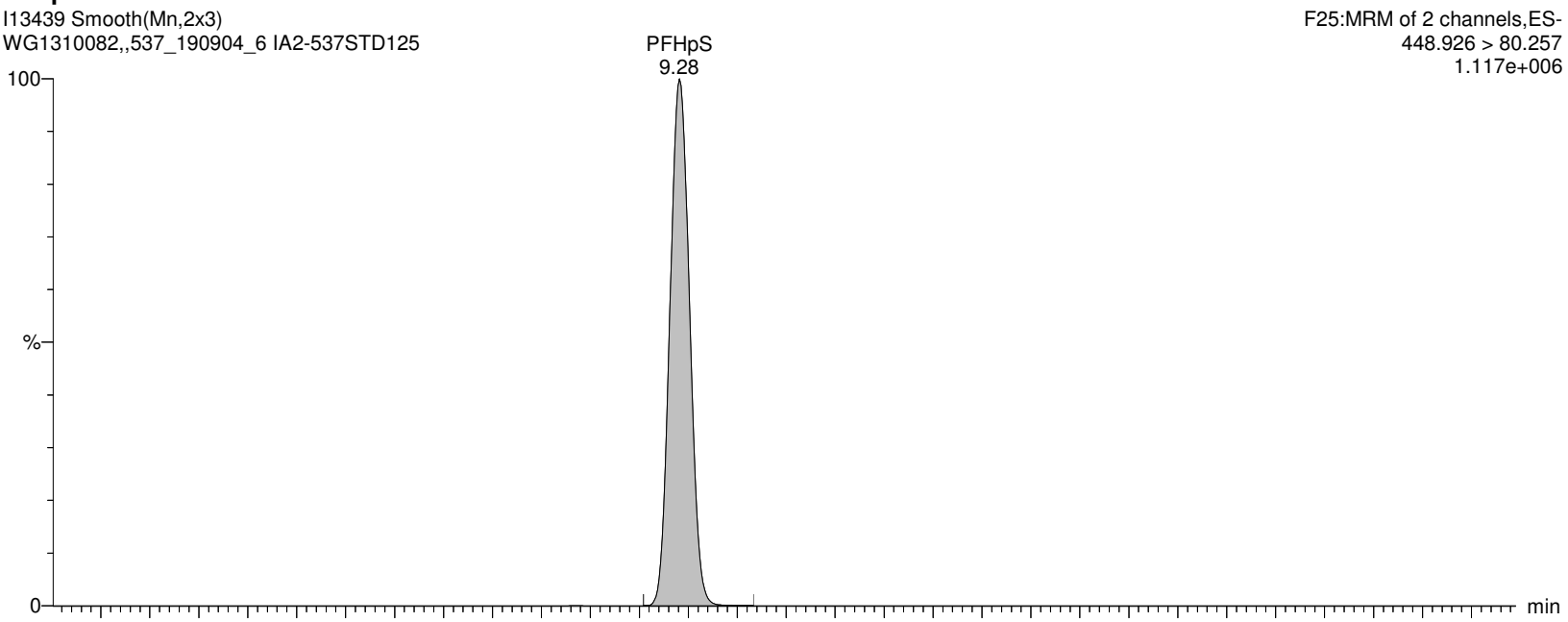

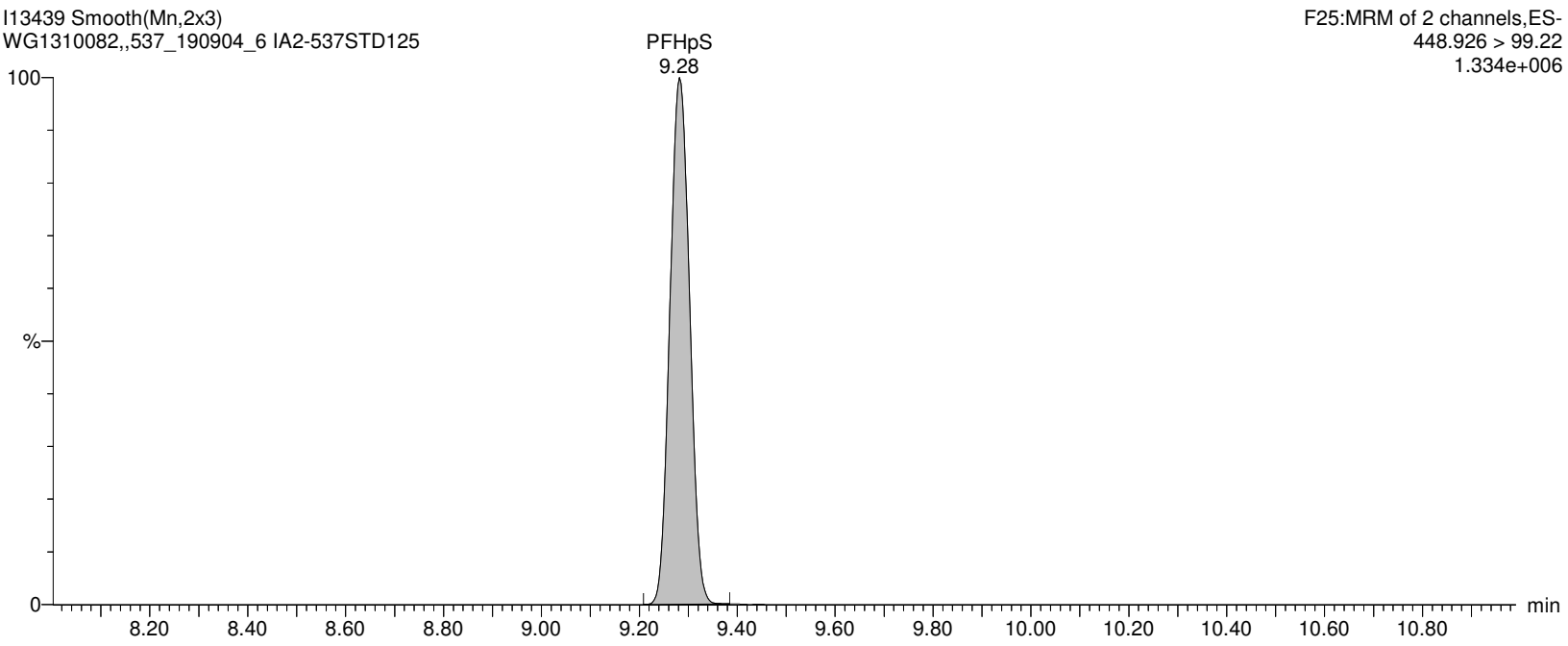

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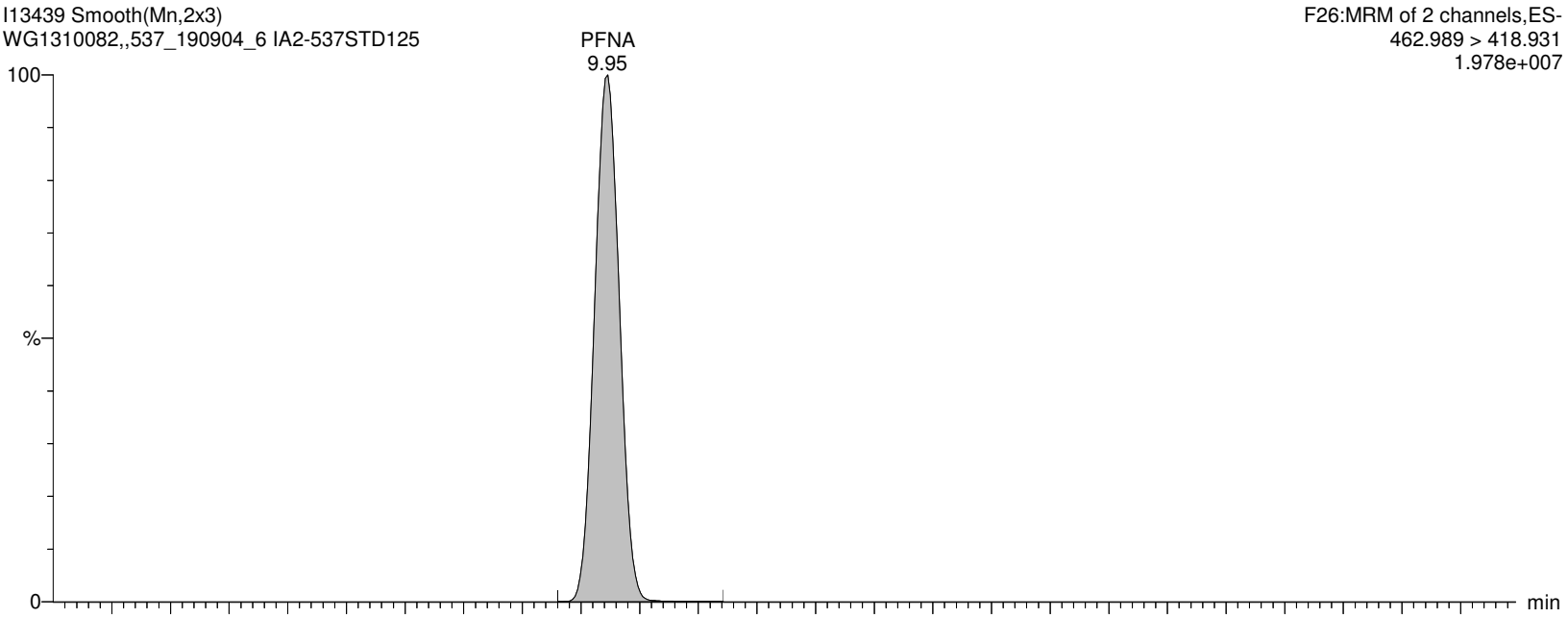

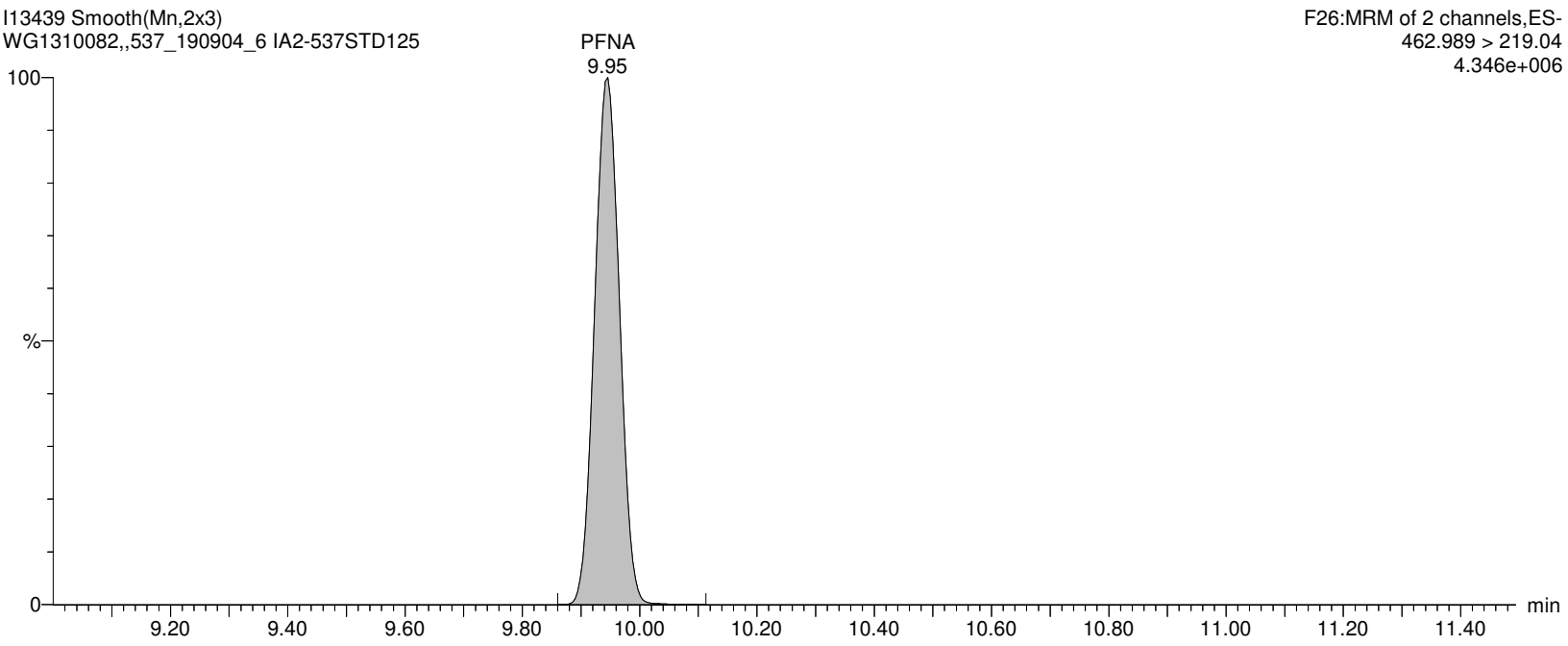

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:59 Eastern Standard Time

Name: I13439
ID: IA2-537STD125
Date: 18-Nov-2019
Time: 12:00:10
Description: WG1310082,,537_190904_6
User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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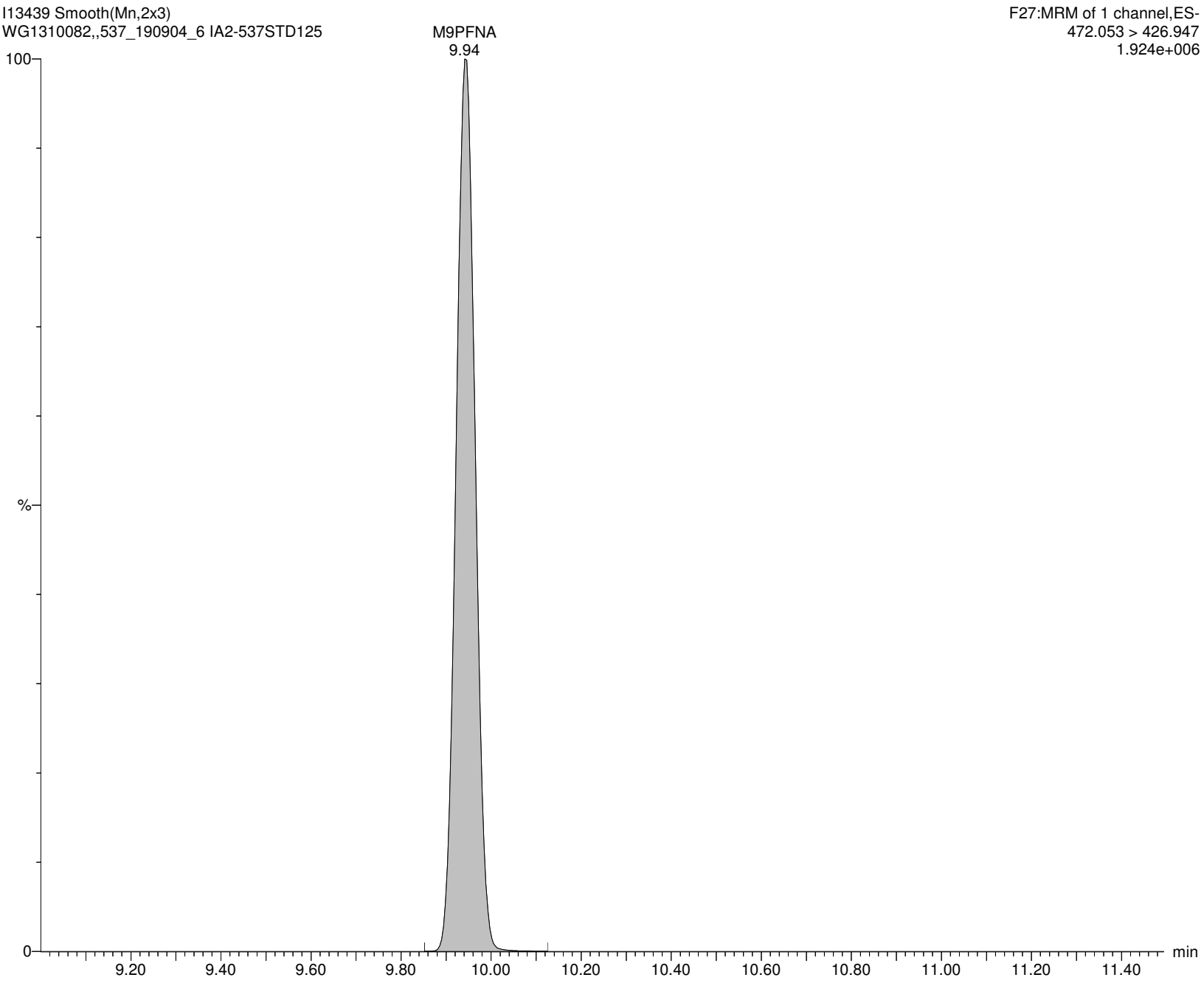

all concentration units in (ng/mL)

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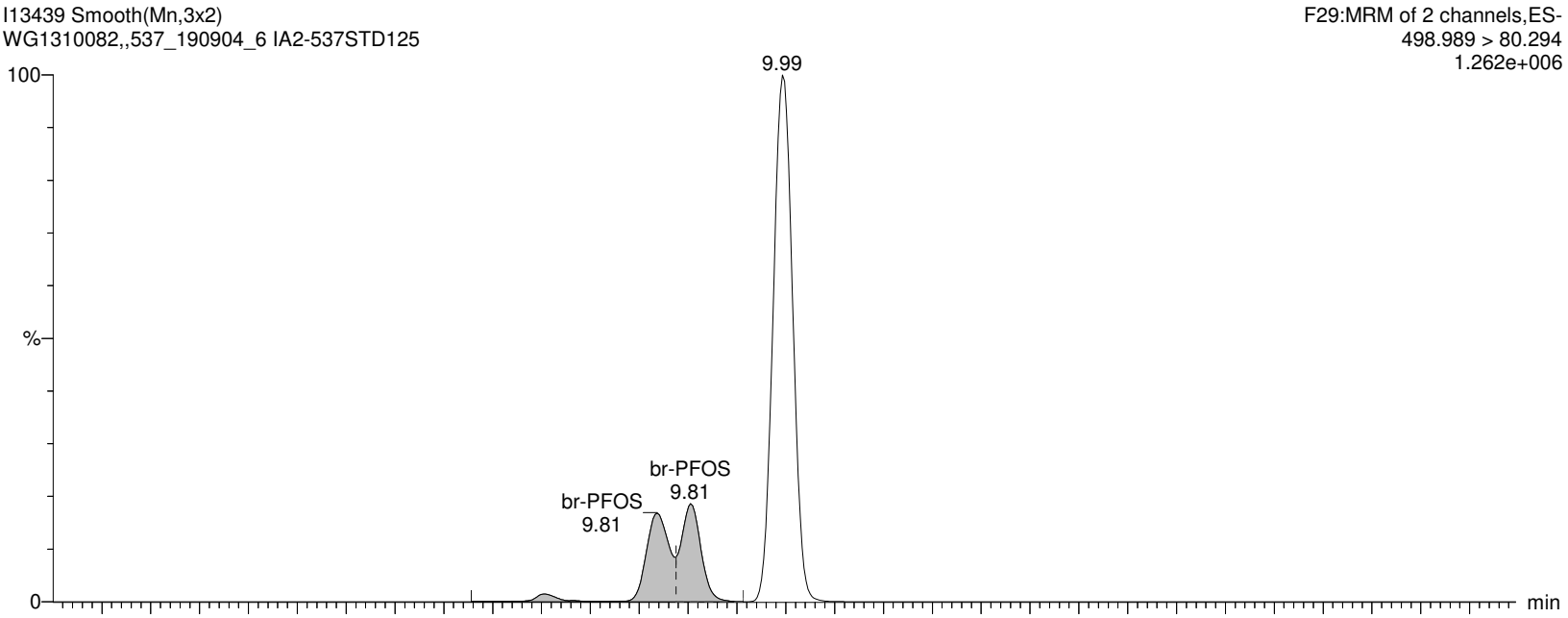

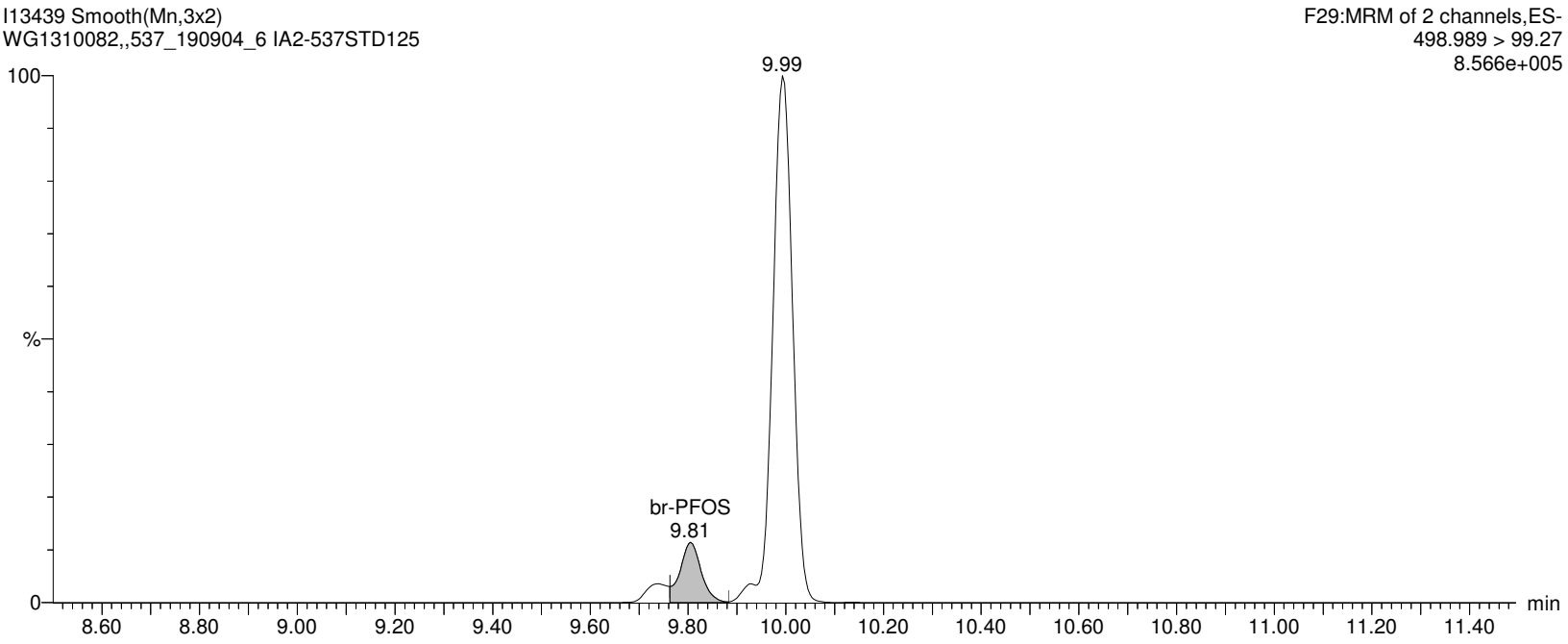

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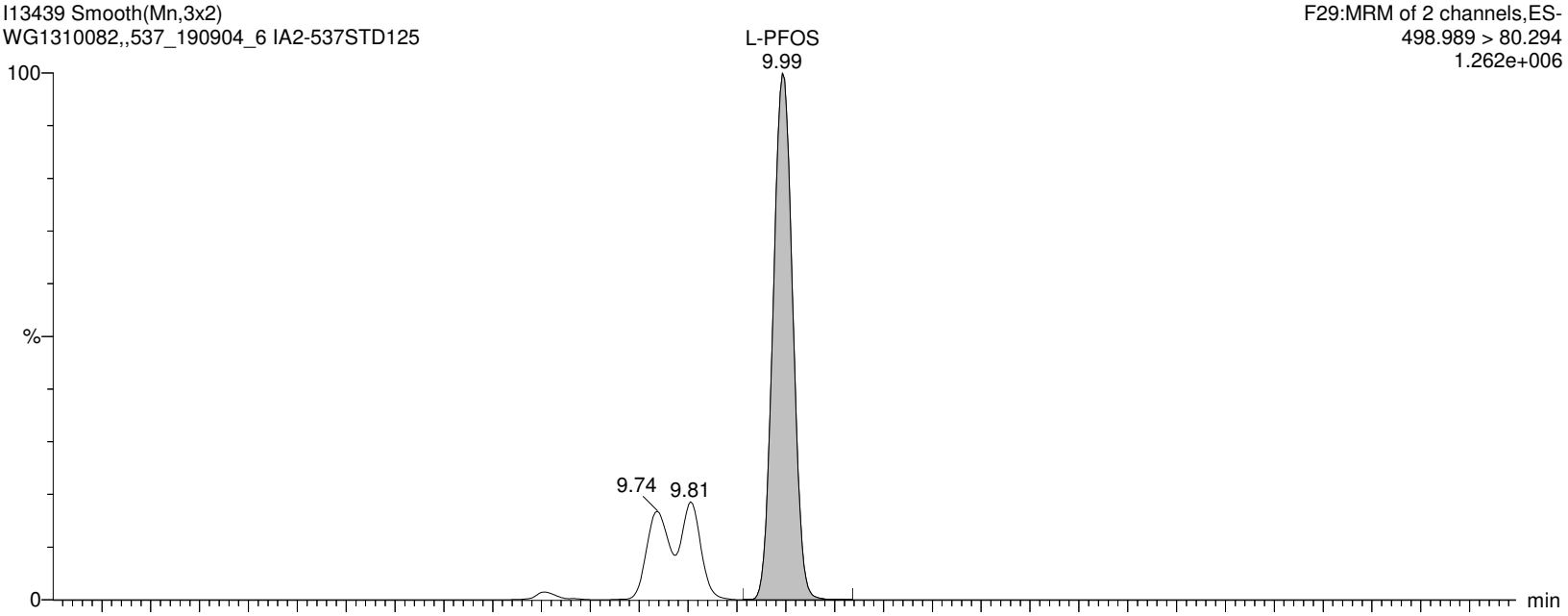

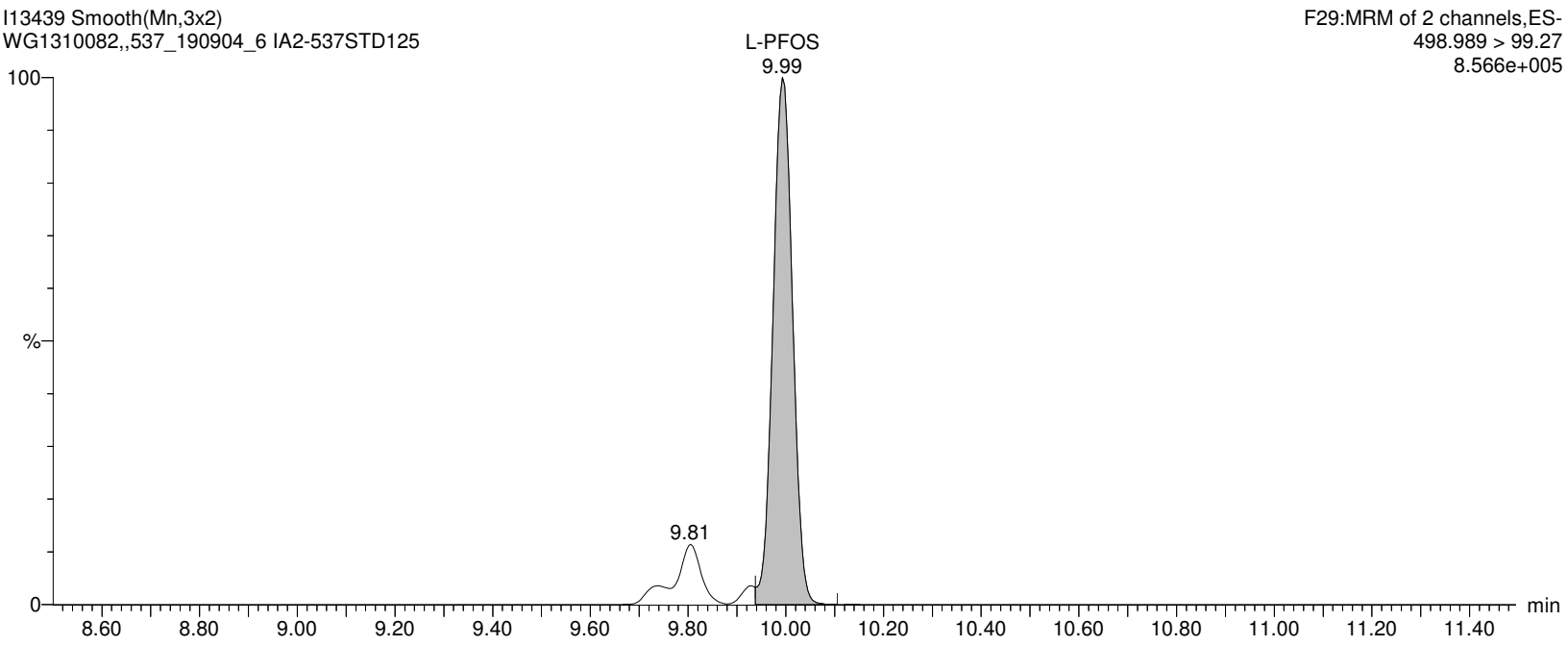

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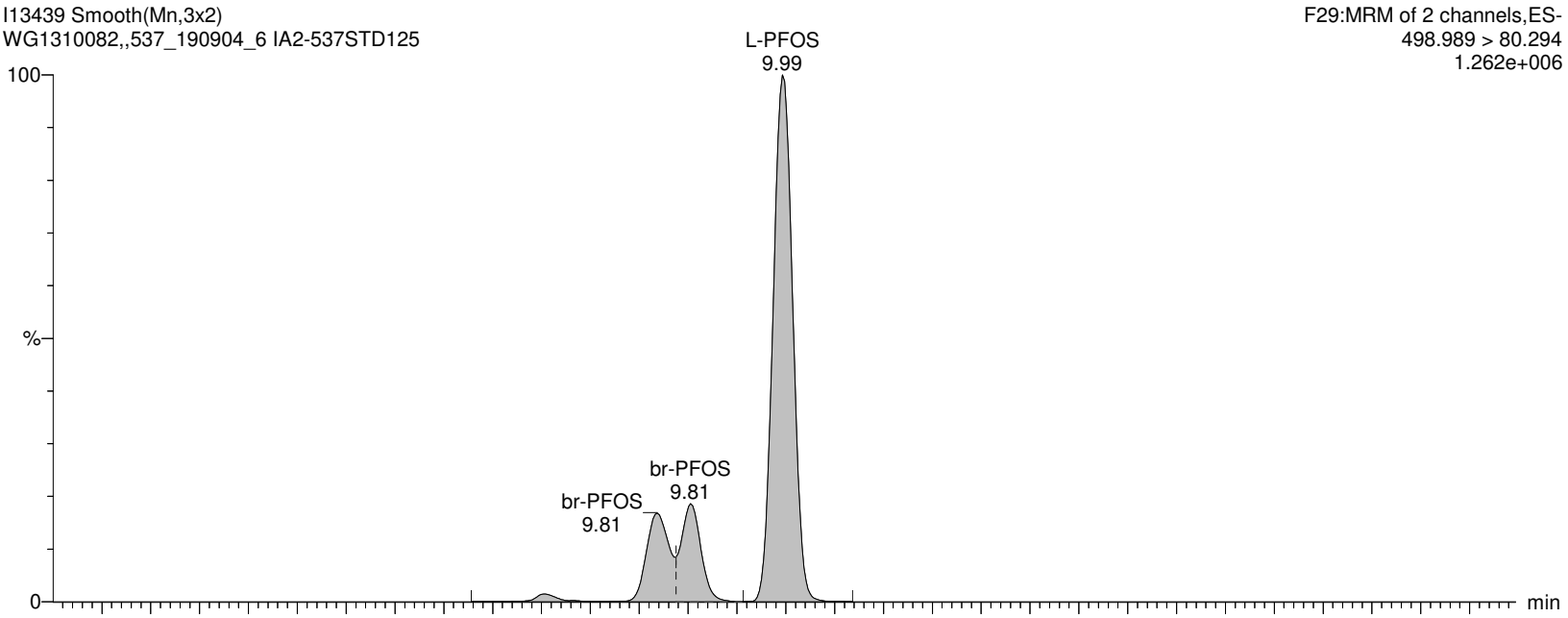

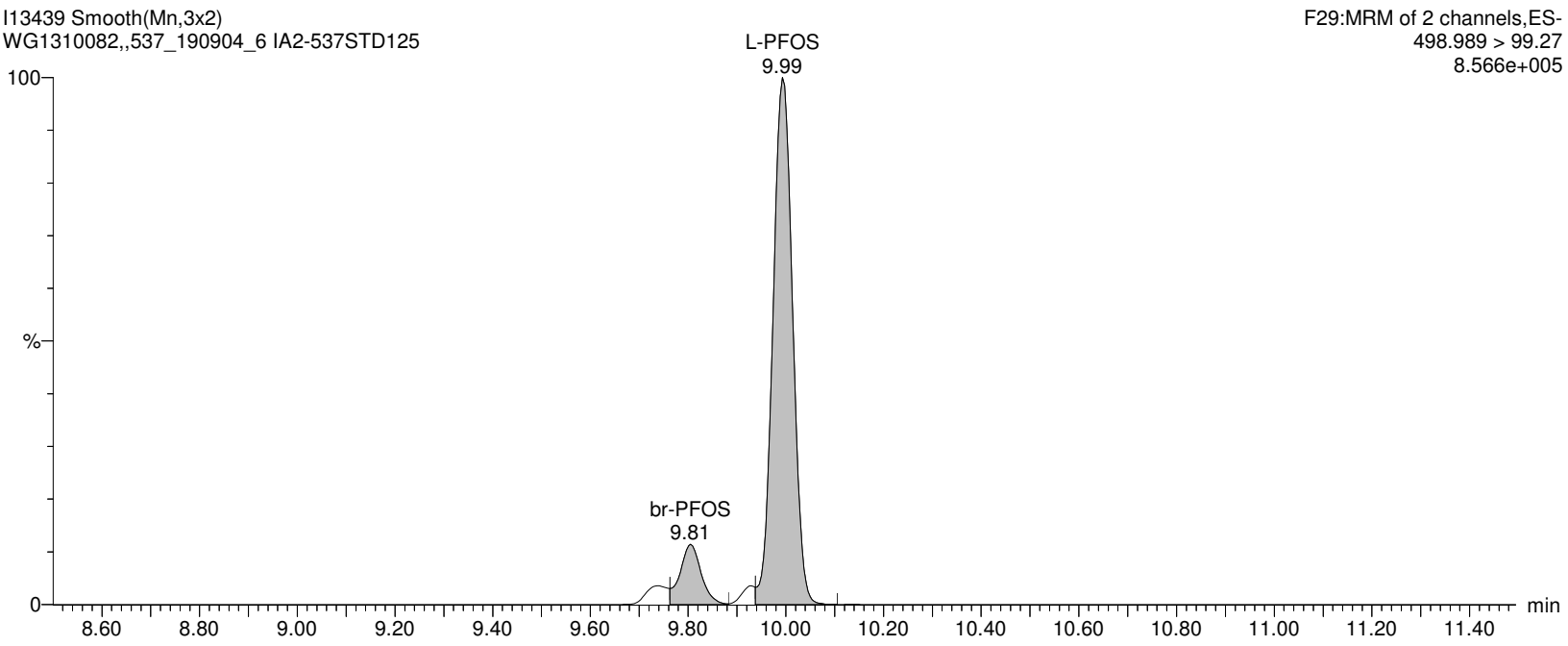

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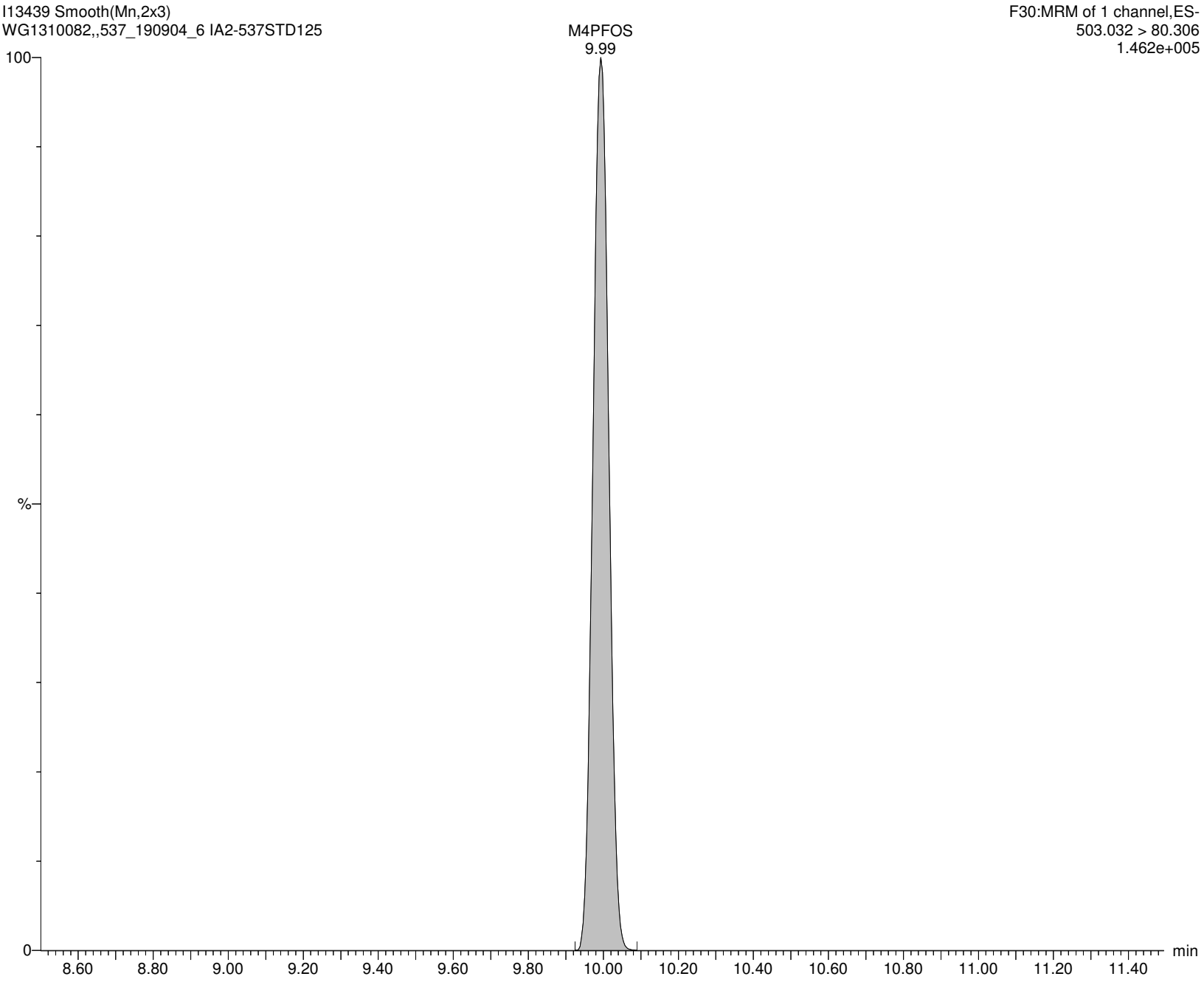

all concentration units in (ng/mL)

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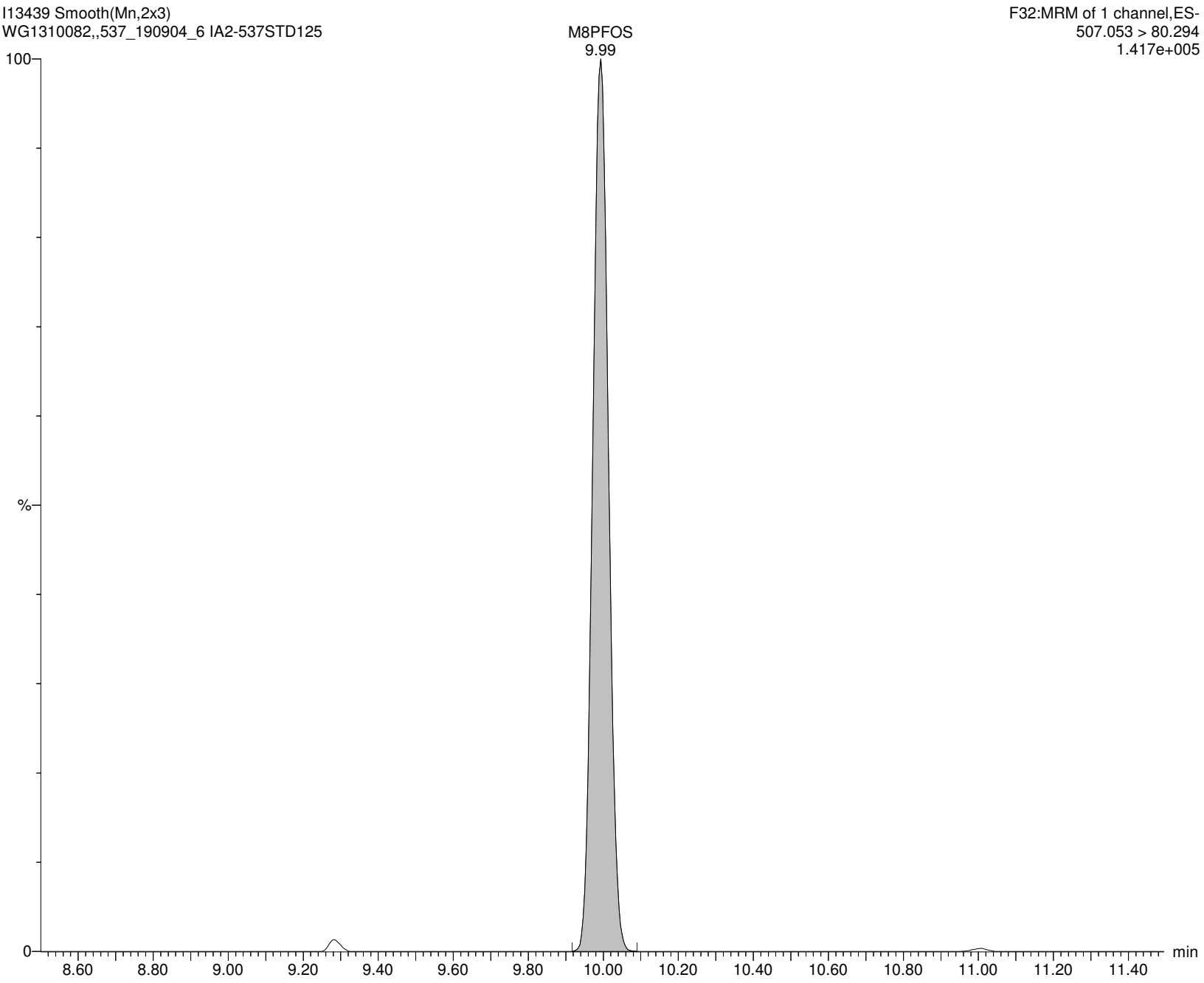

all concentration units in (ng/mL)

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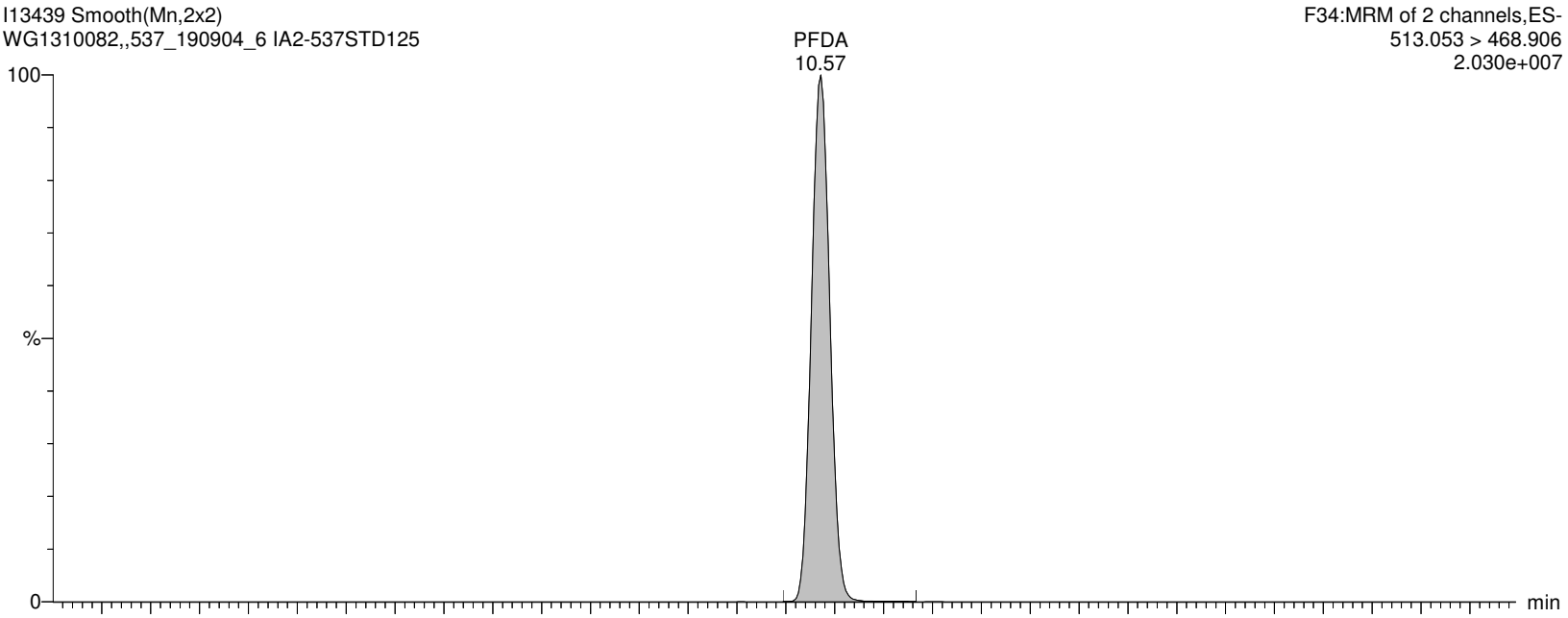

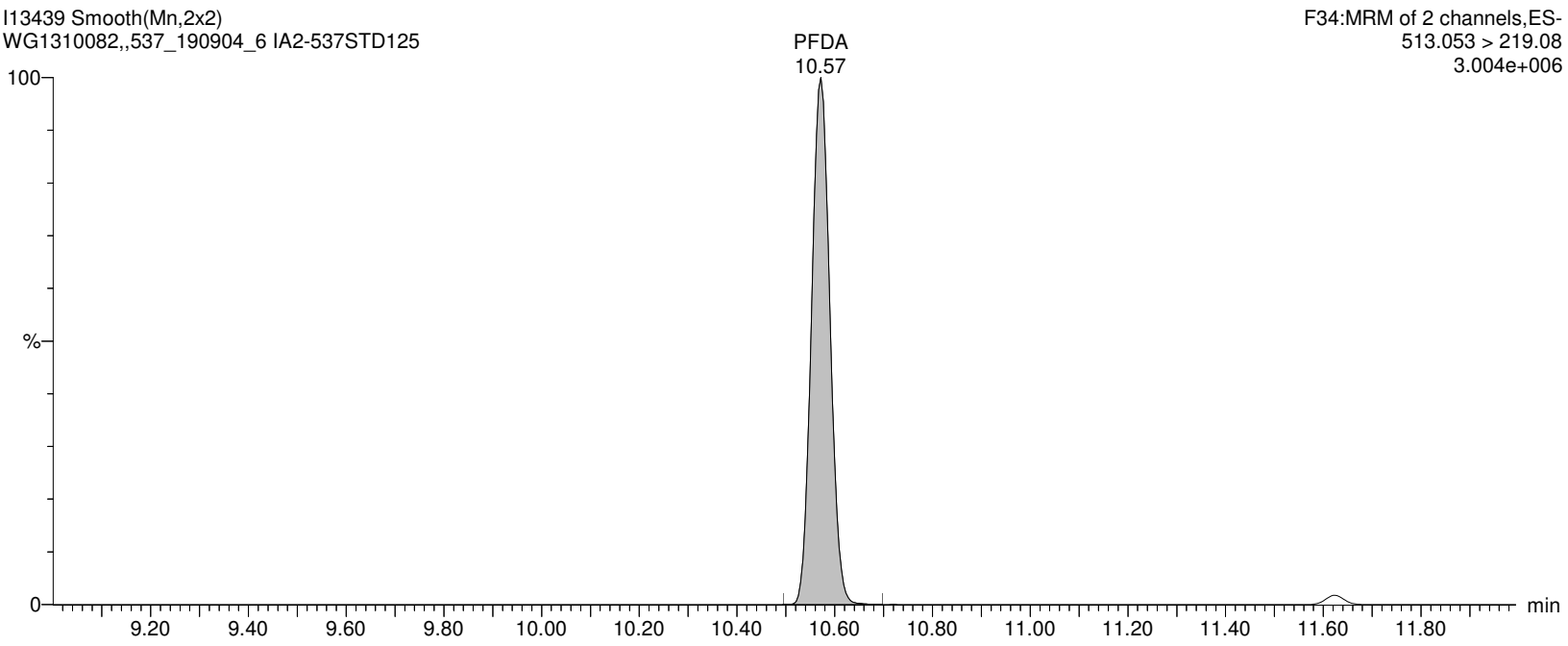

all concentration units in (ng/mL)

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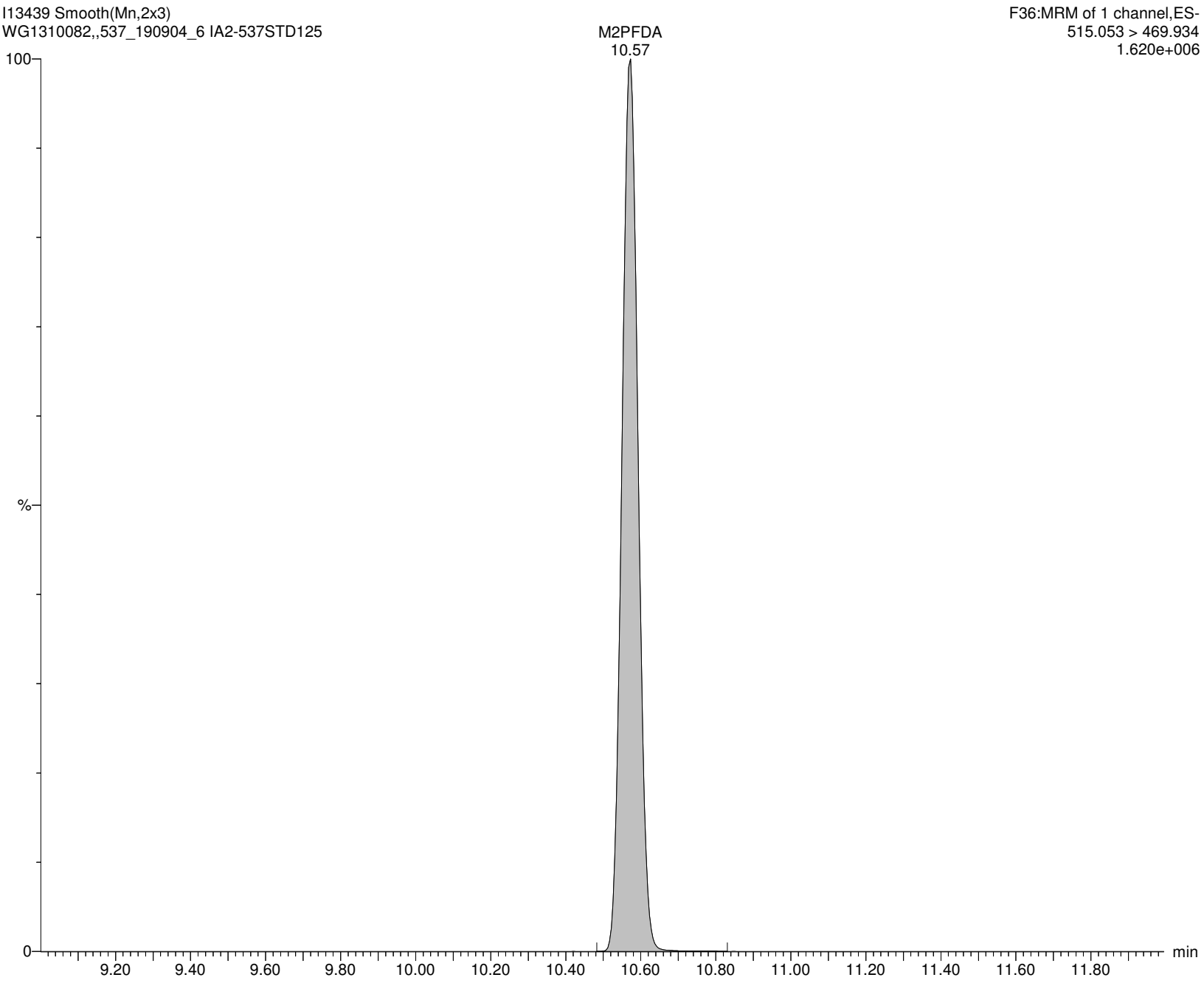

all concentration units in (ng/mL)

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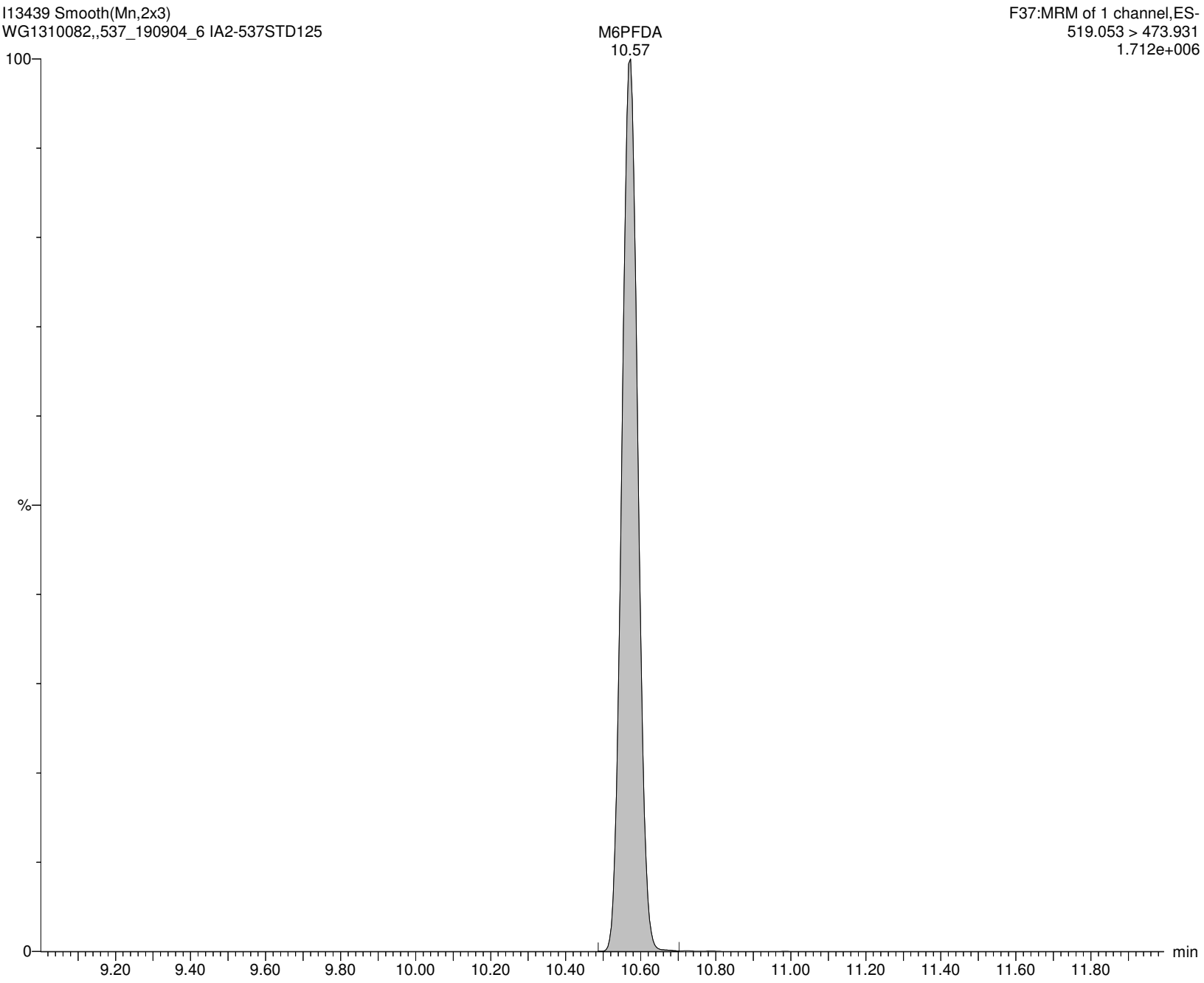

all concentration units in (ng/mL)

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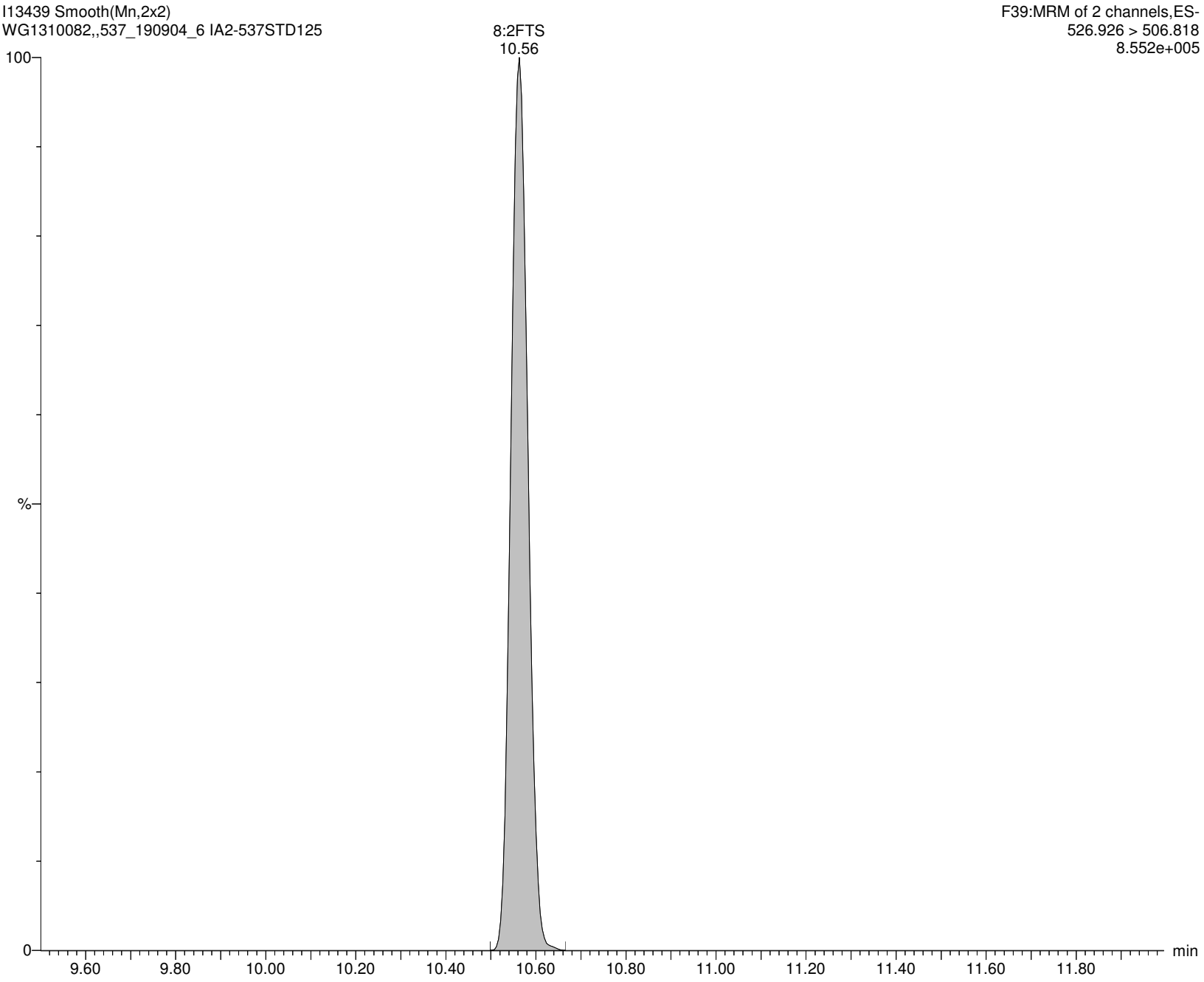

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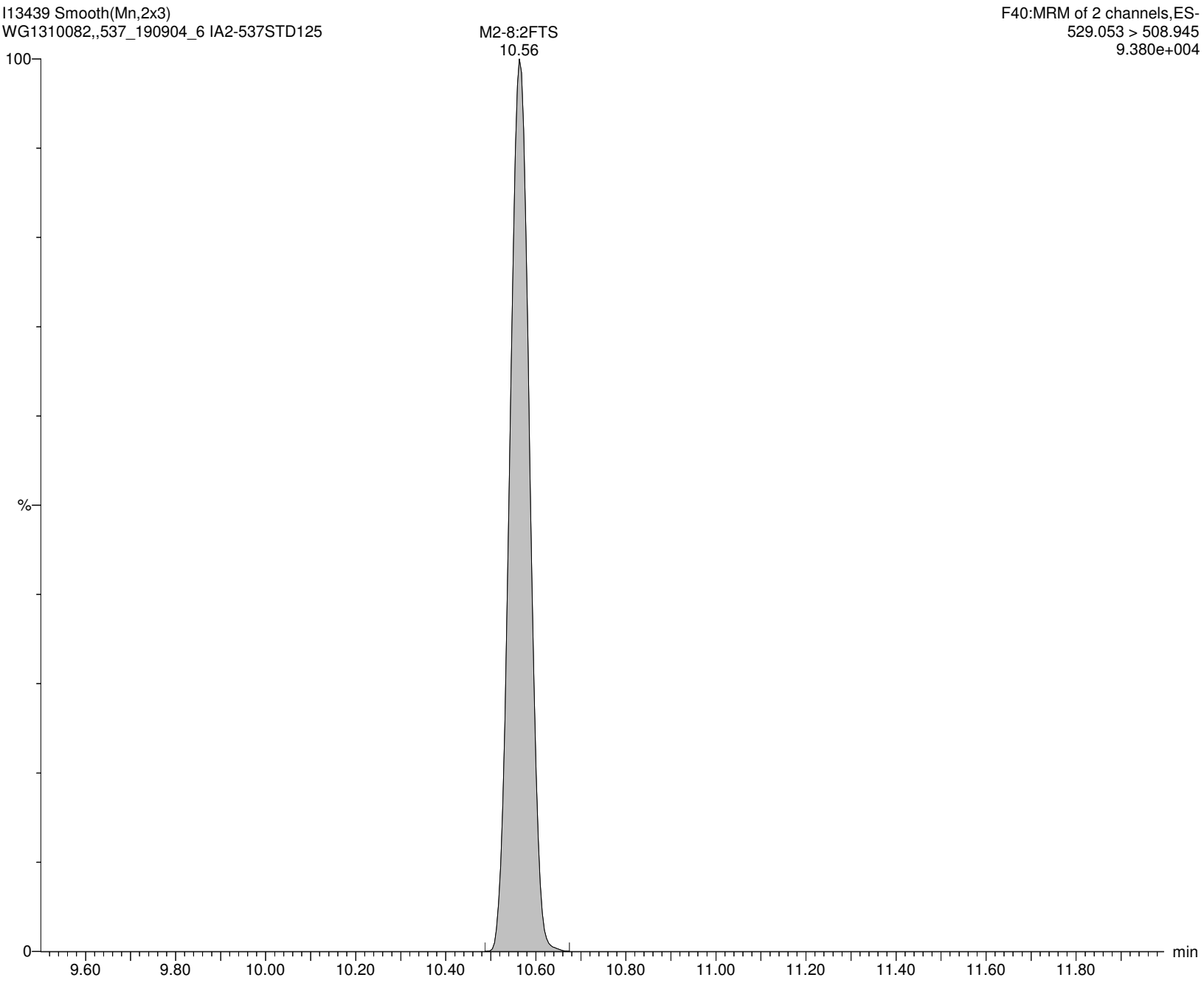

all concentration units in (ng/mL)

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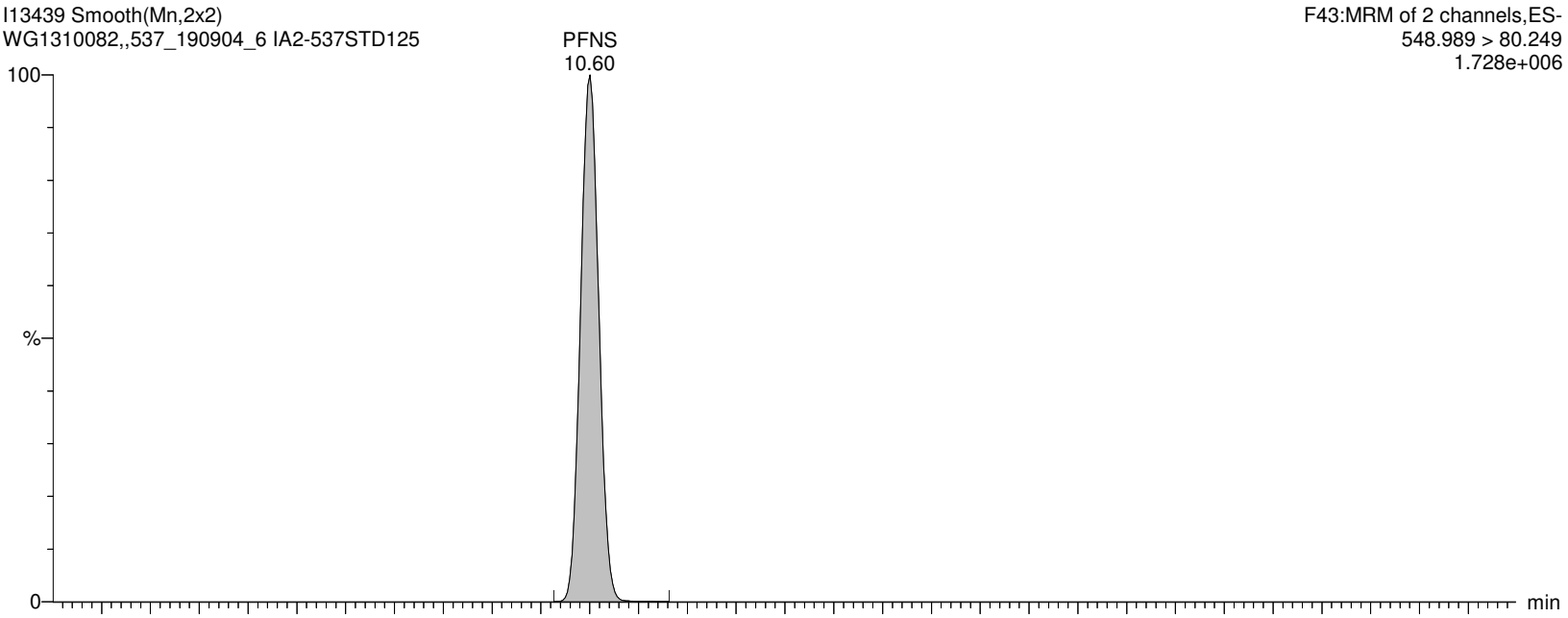

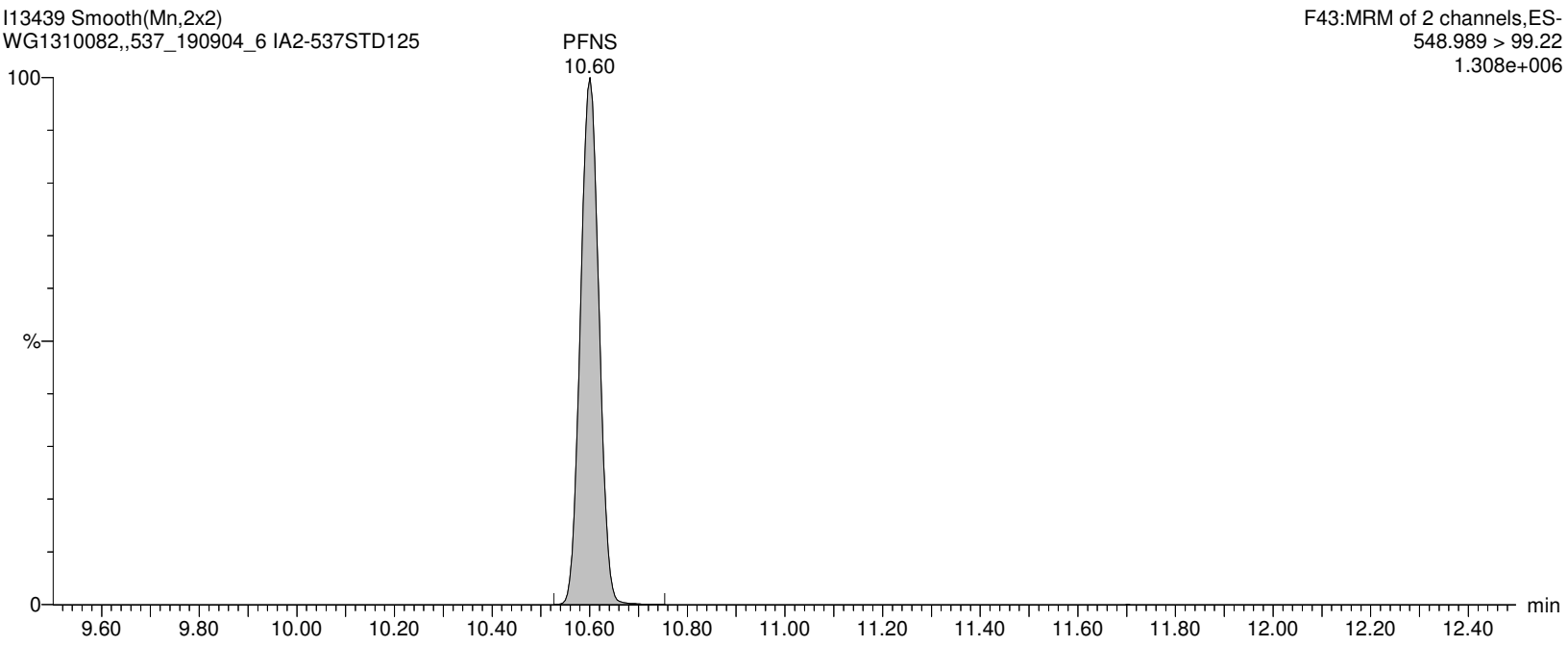

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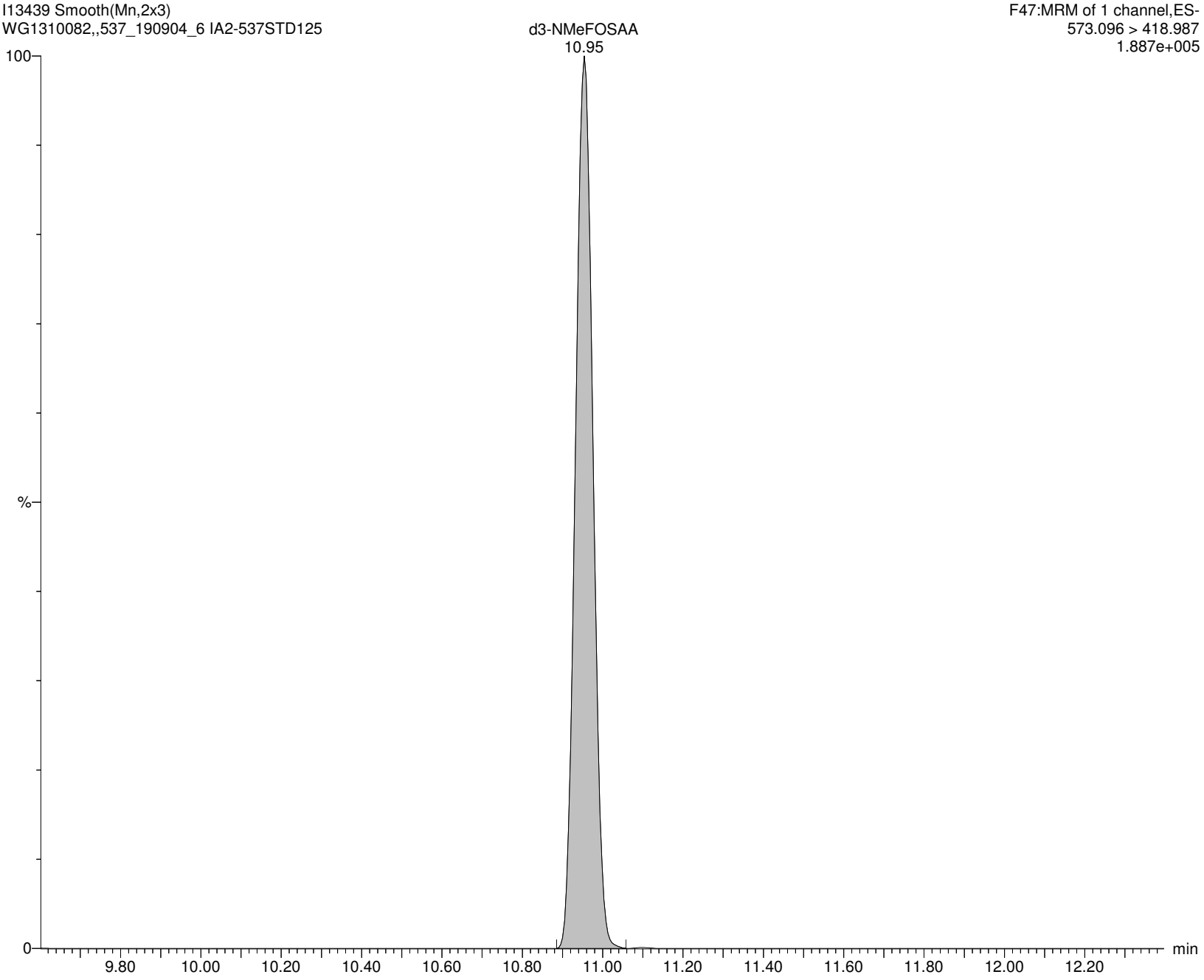

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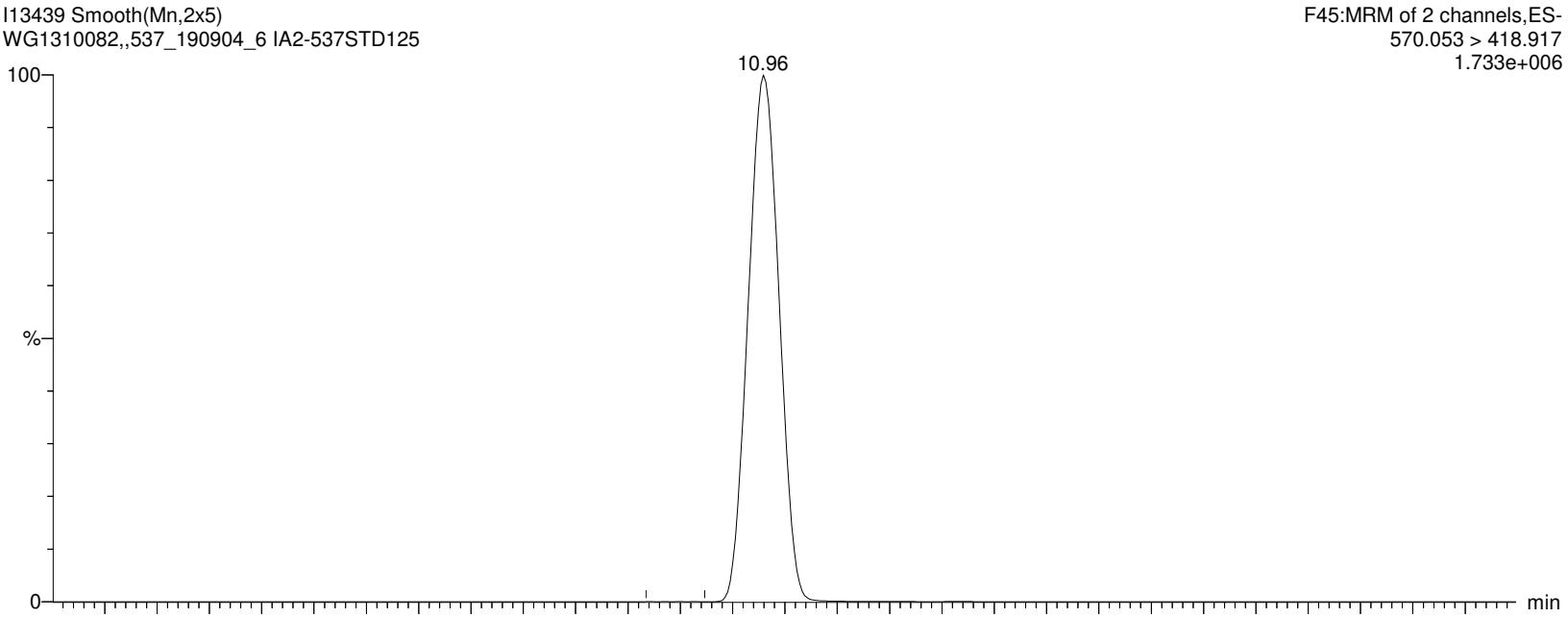

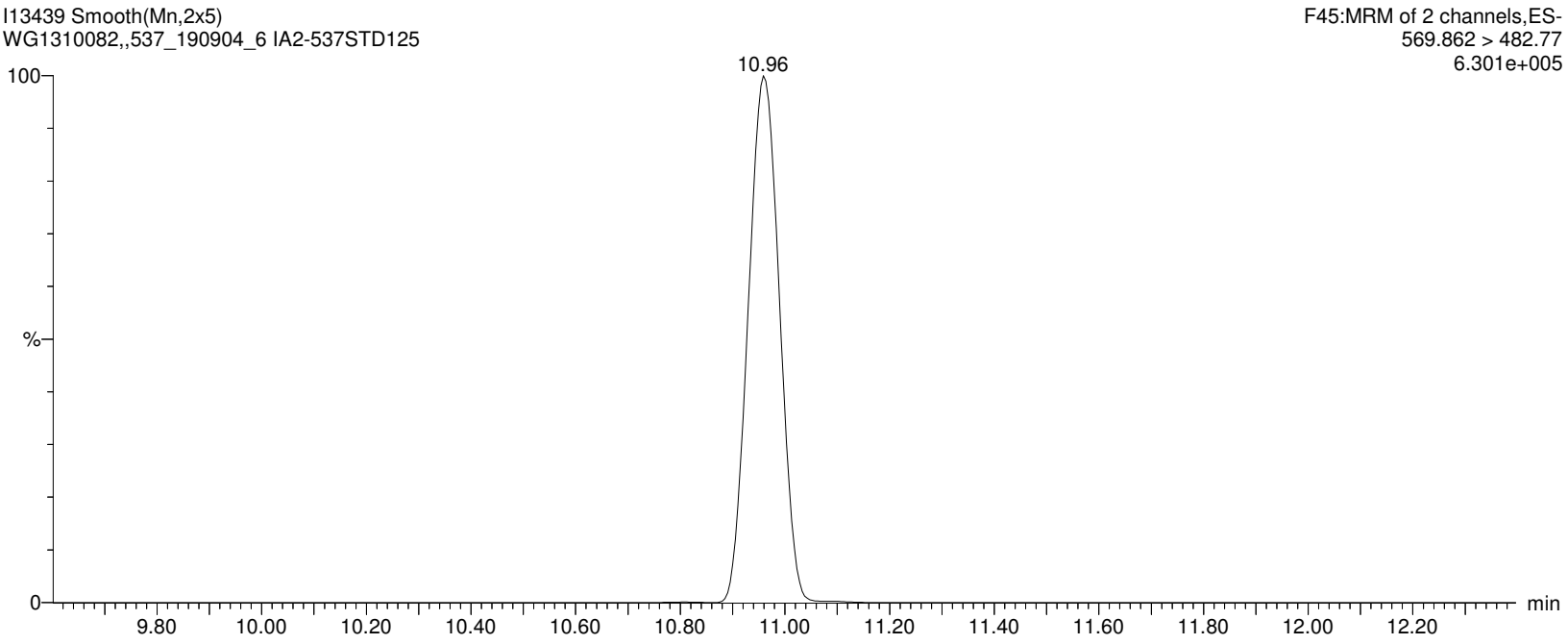

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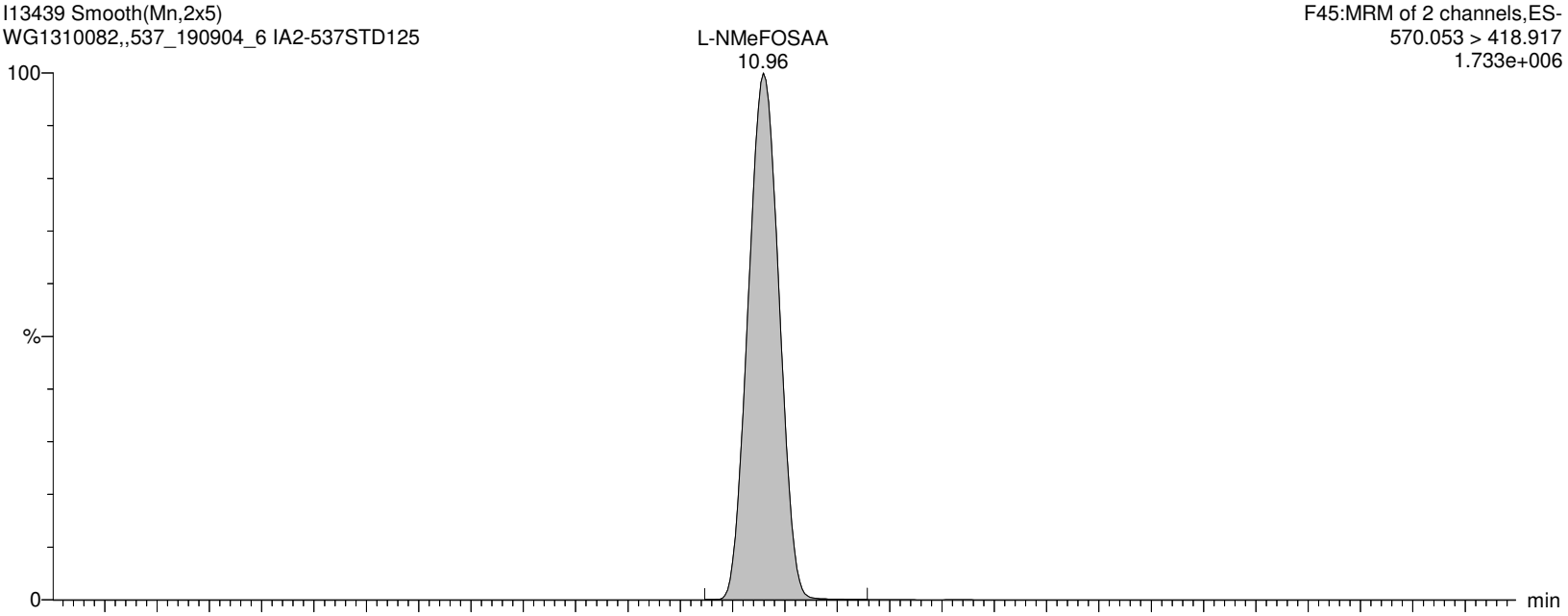

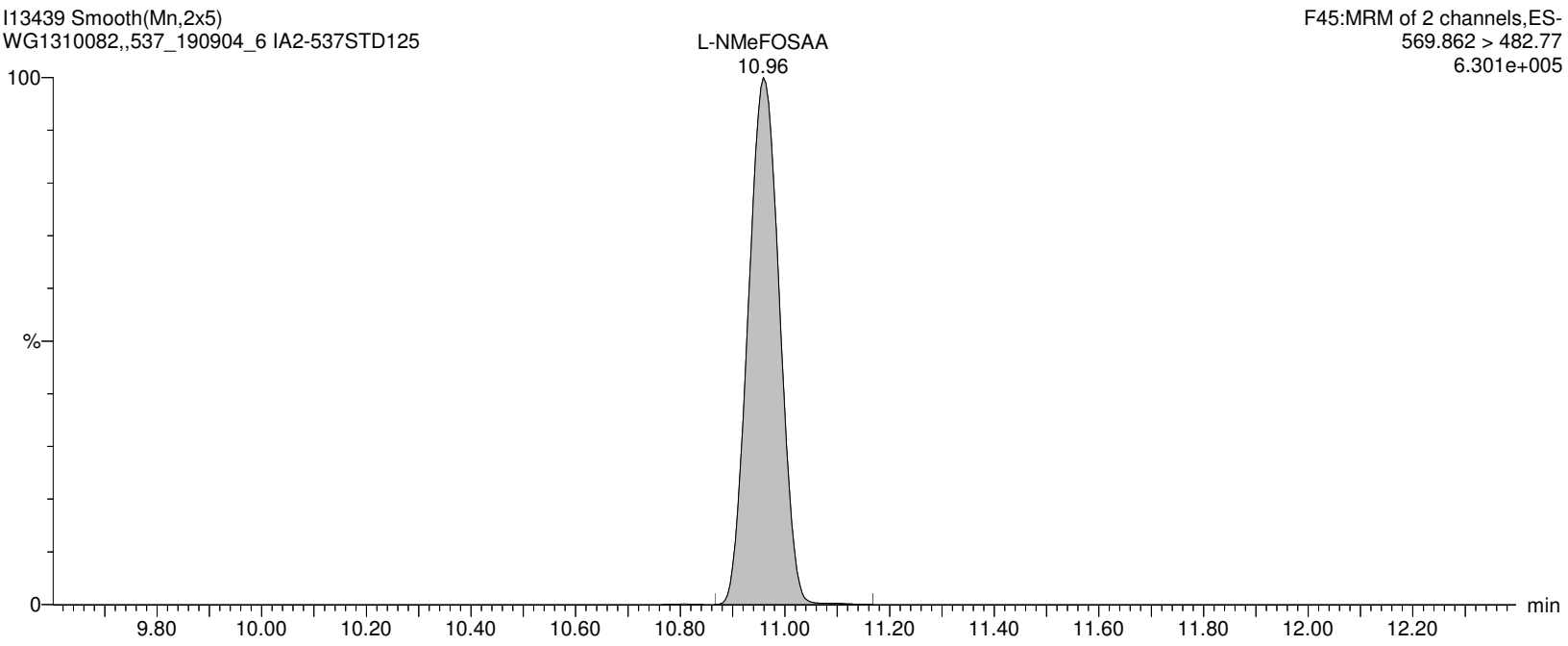

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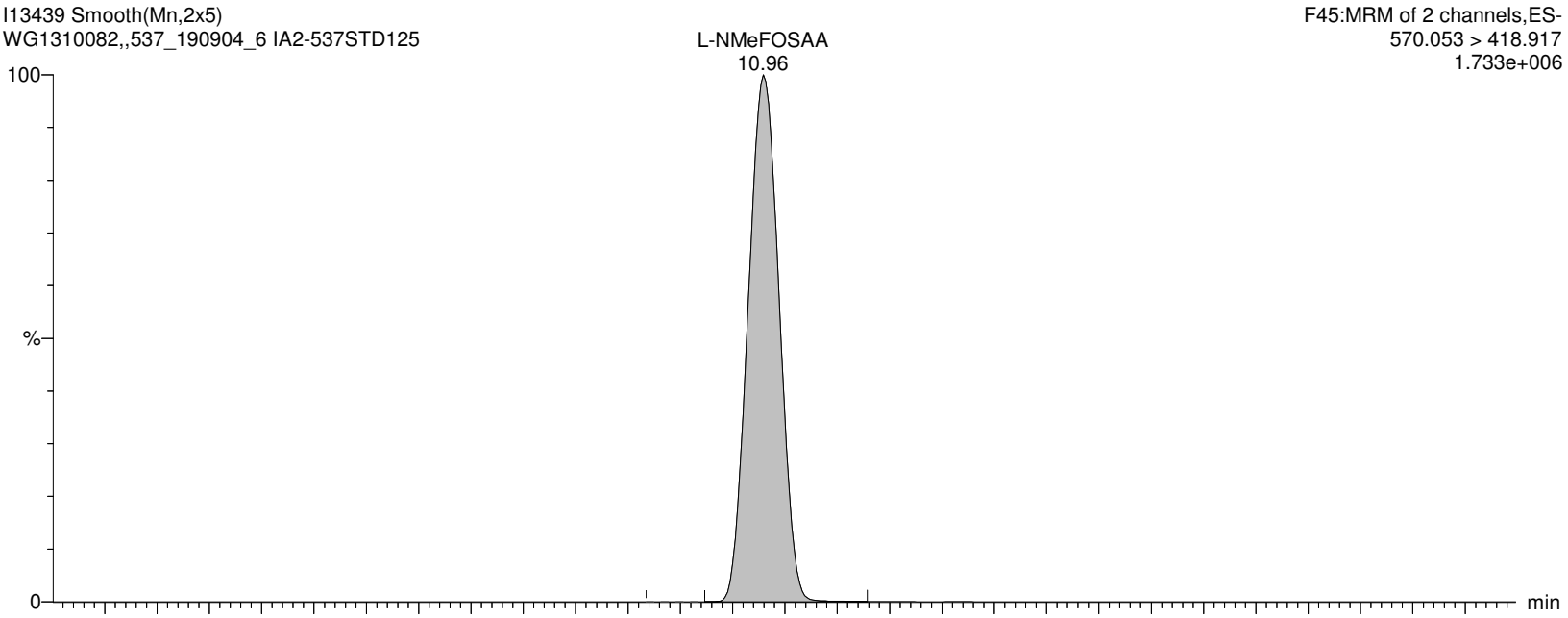

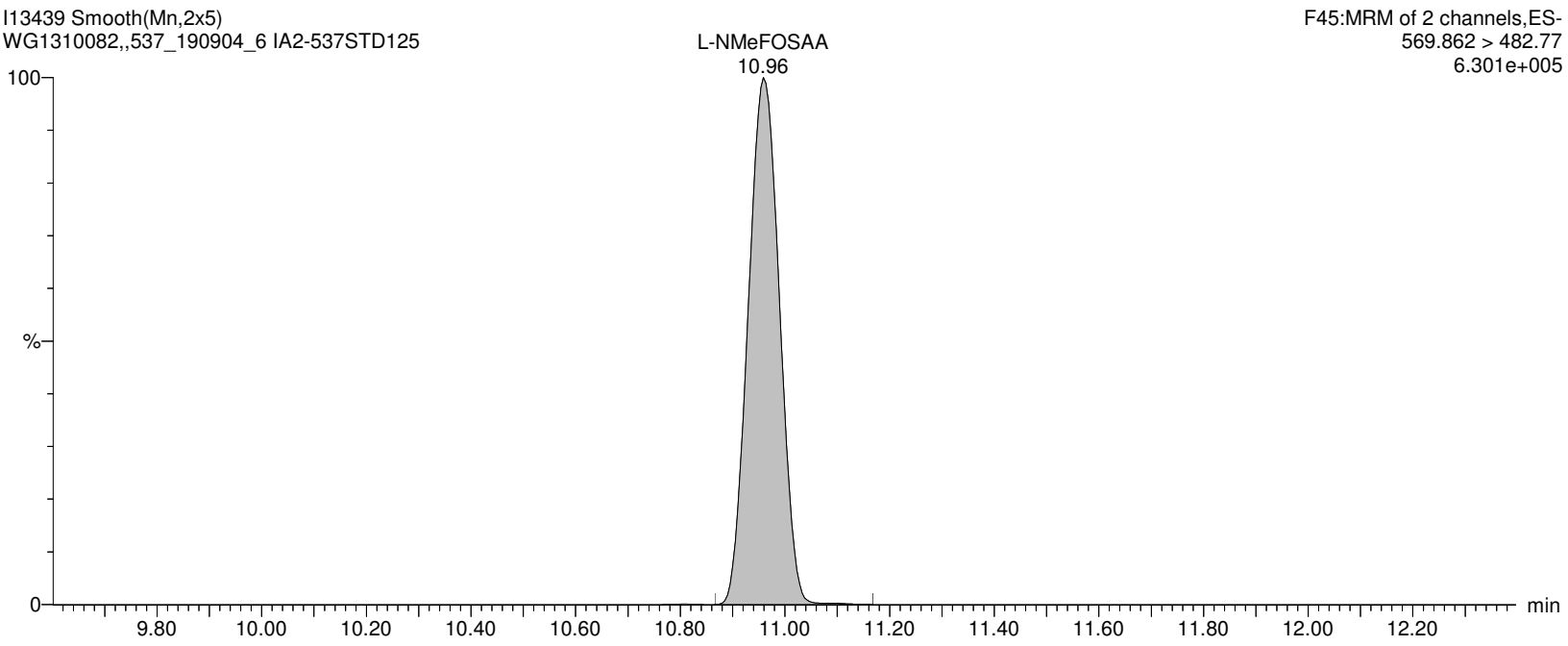

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:59 Eastern Standard Time

Name: I13439
ID: IA2-537STD125
Date: 18-Nov-2019
Time: 12:00:10
Description: WG1310082,,537_190904_6
User: LCMS02:JW
Vial: 1:A,7
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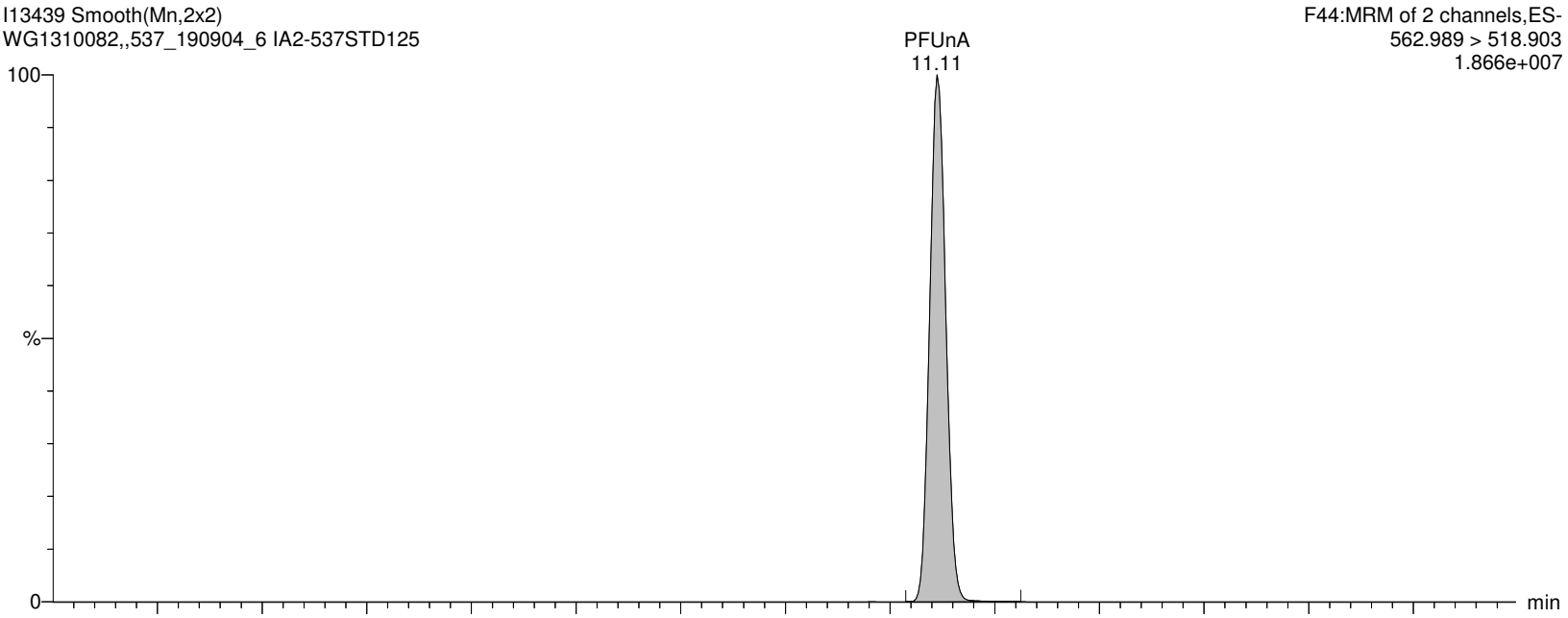

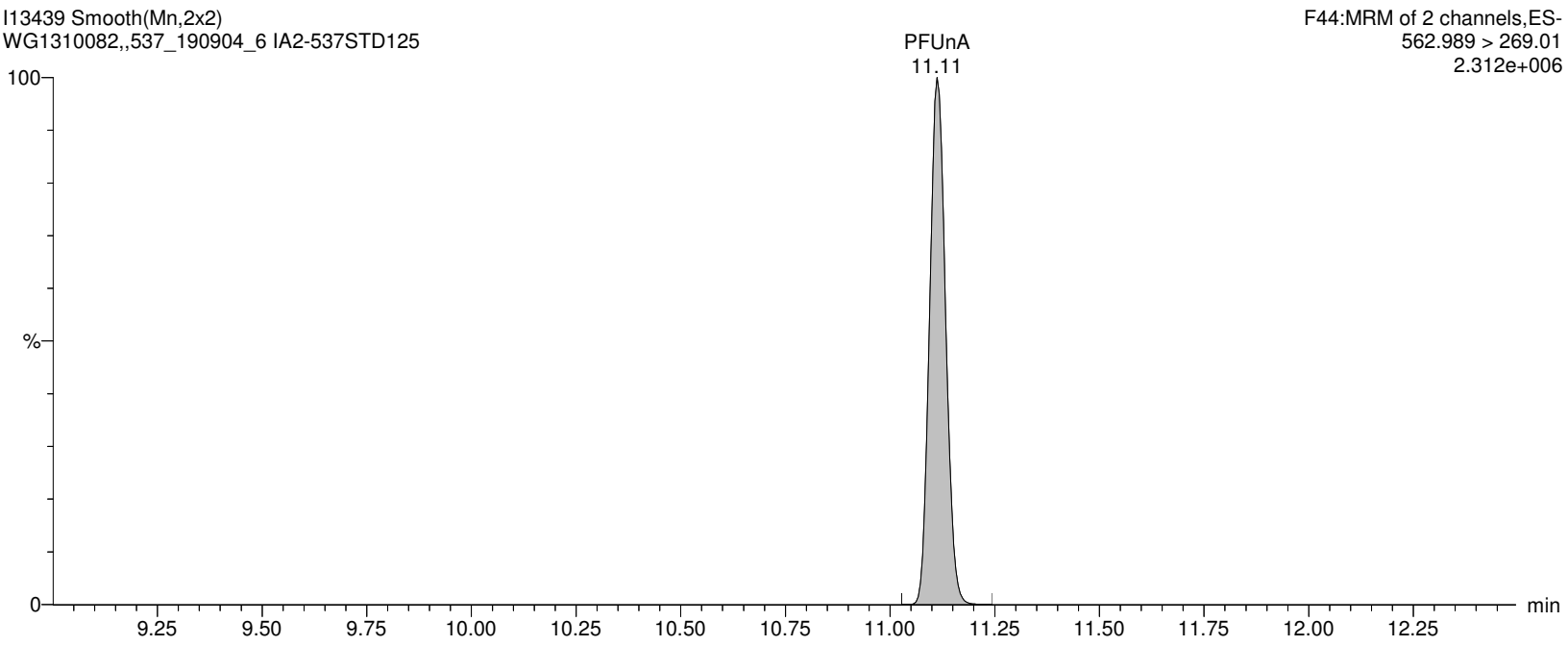

all concentration units in (ng/mL)

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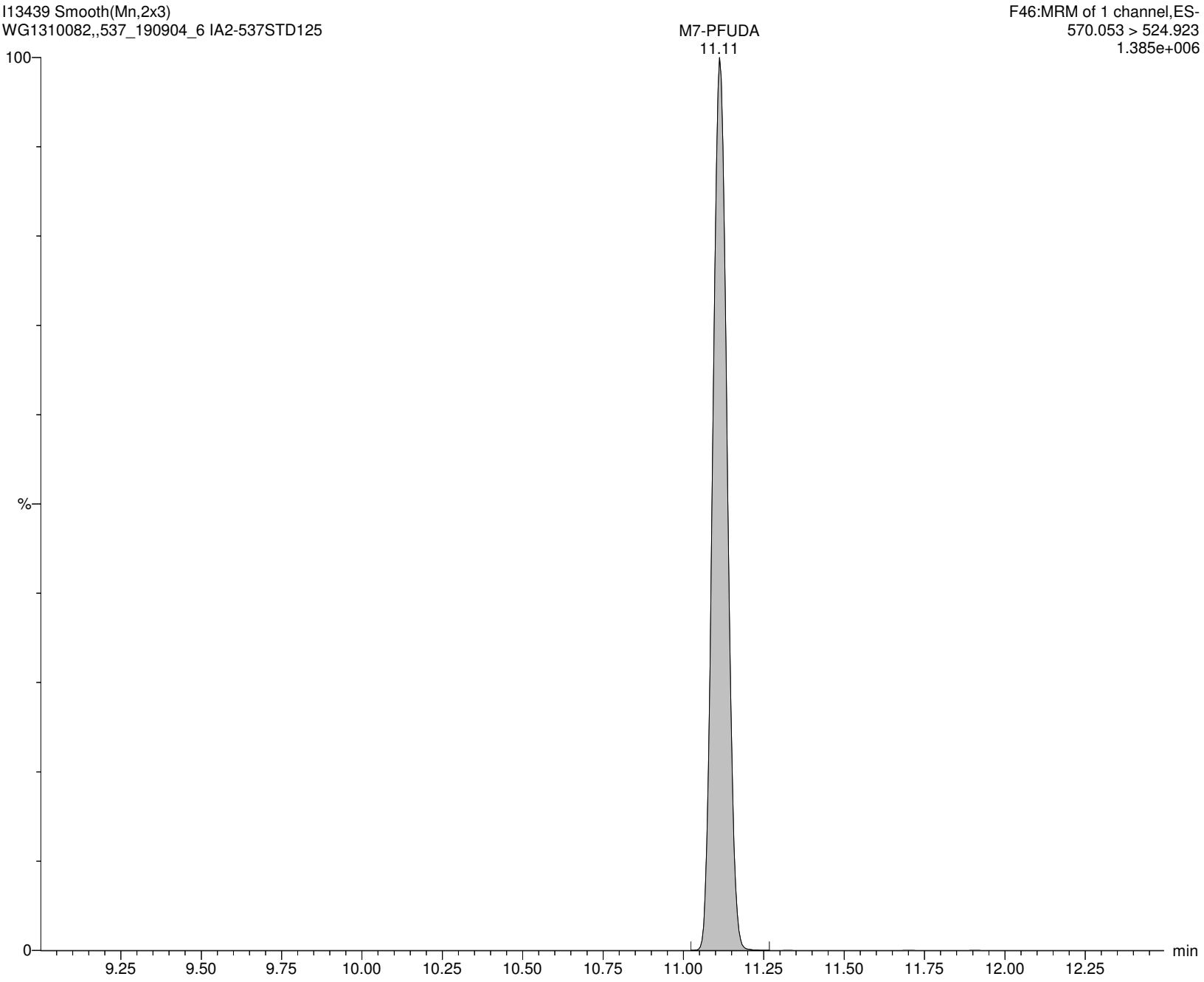

all concentration units in (ng/mL)

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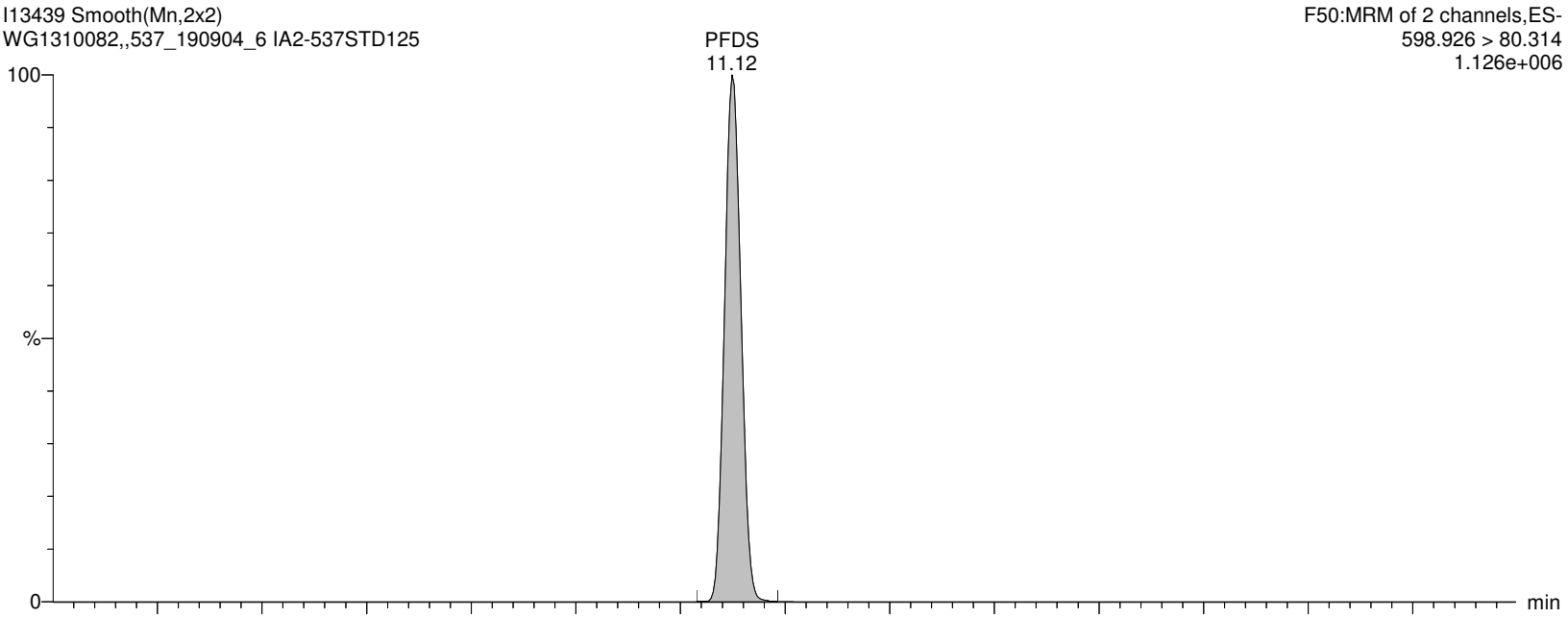

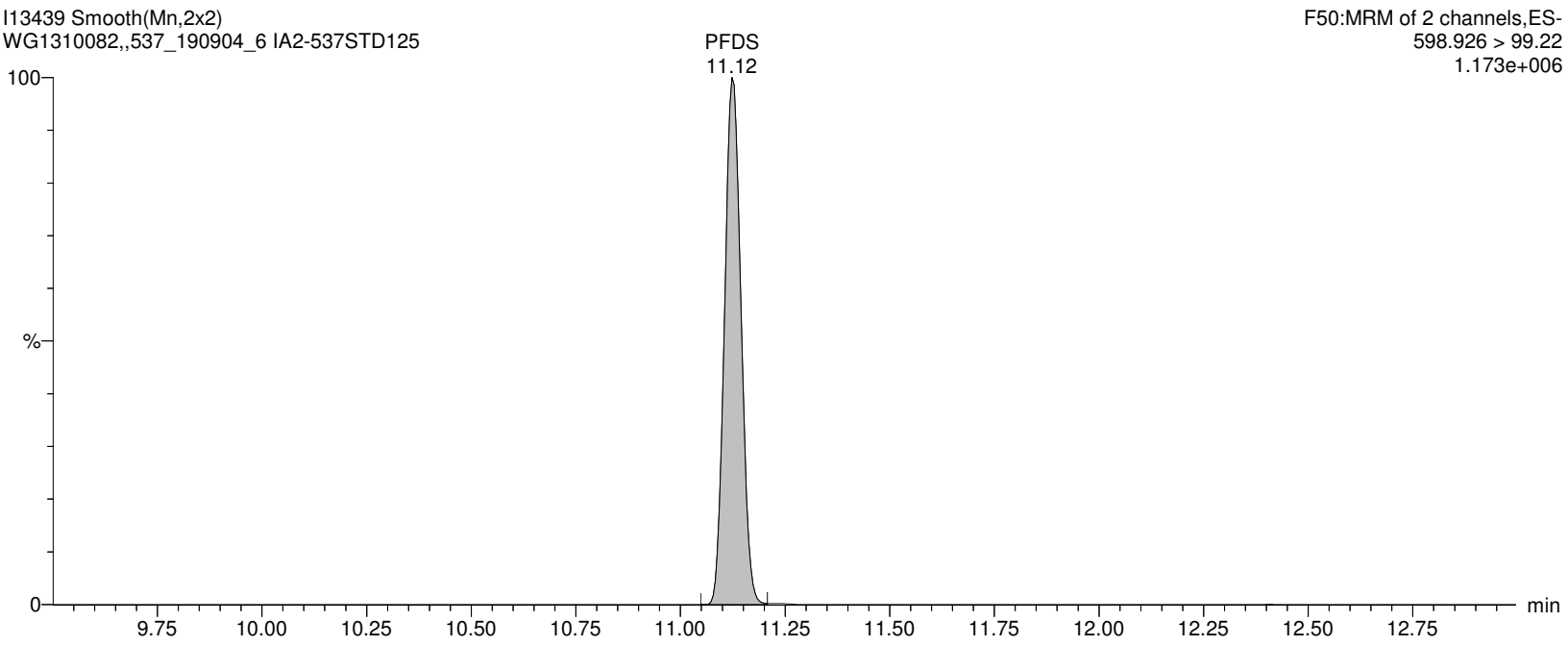

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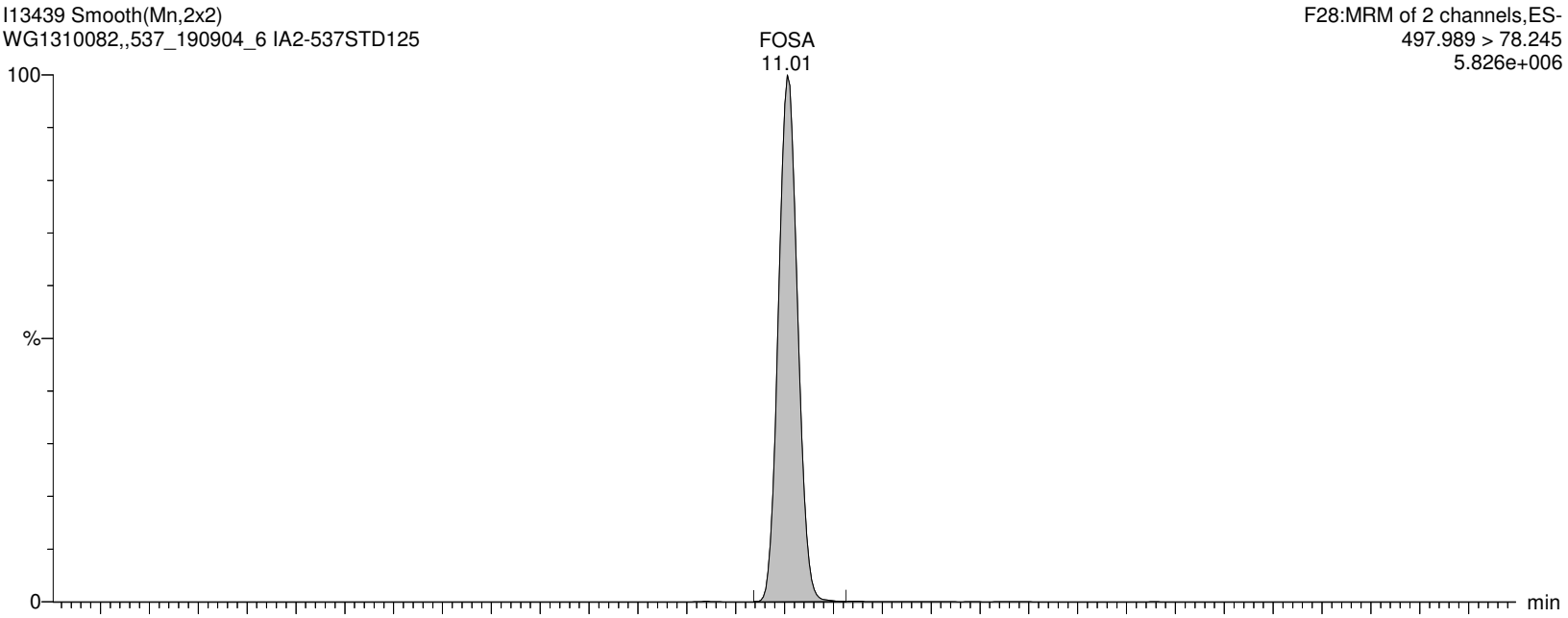

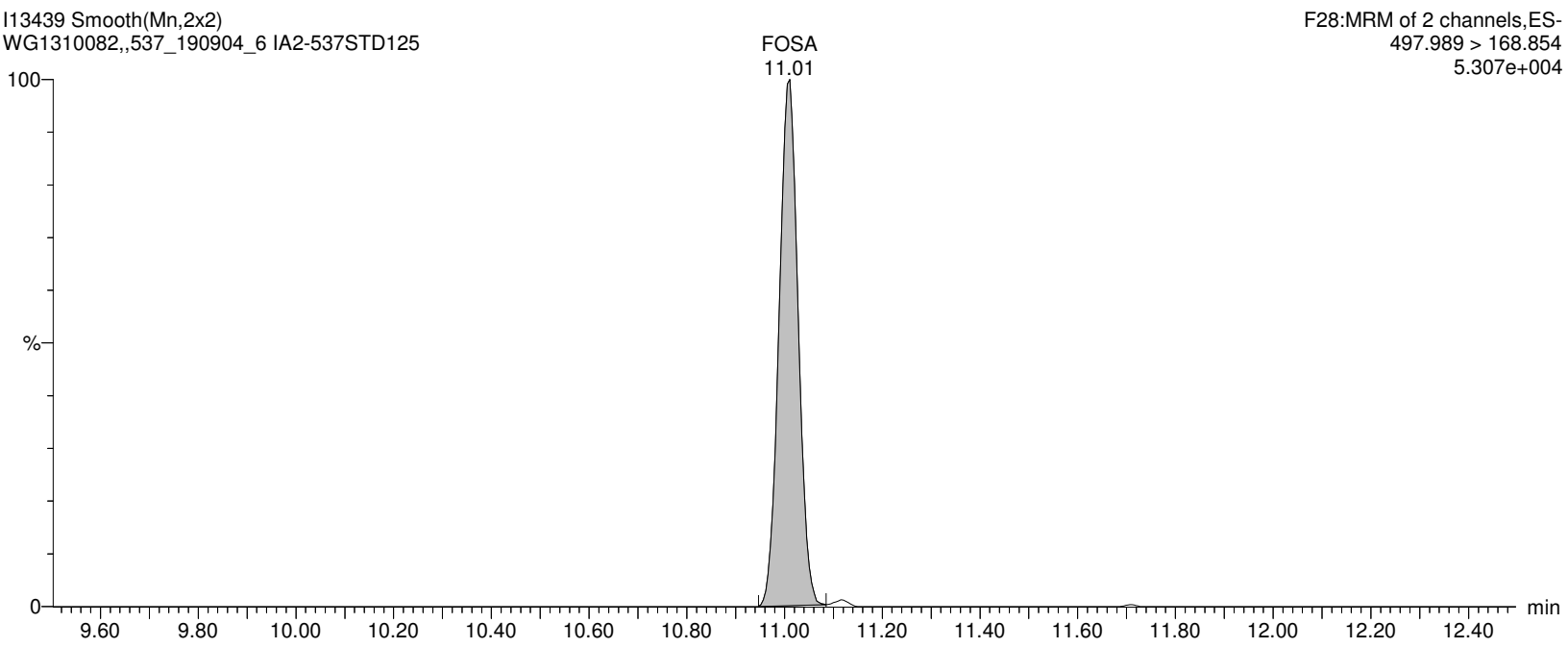

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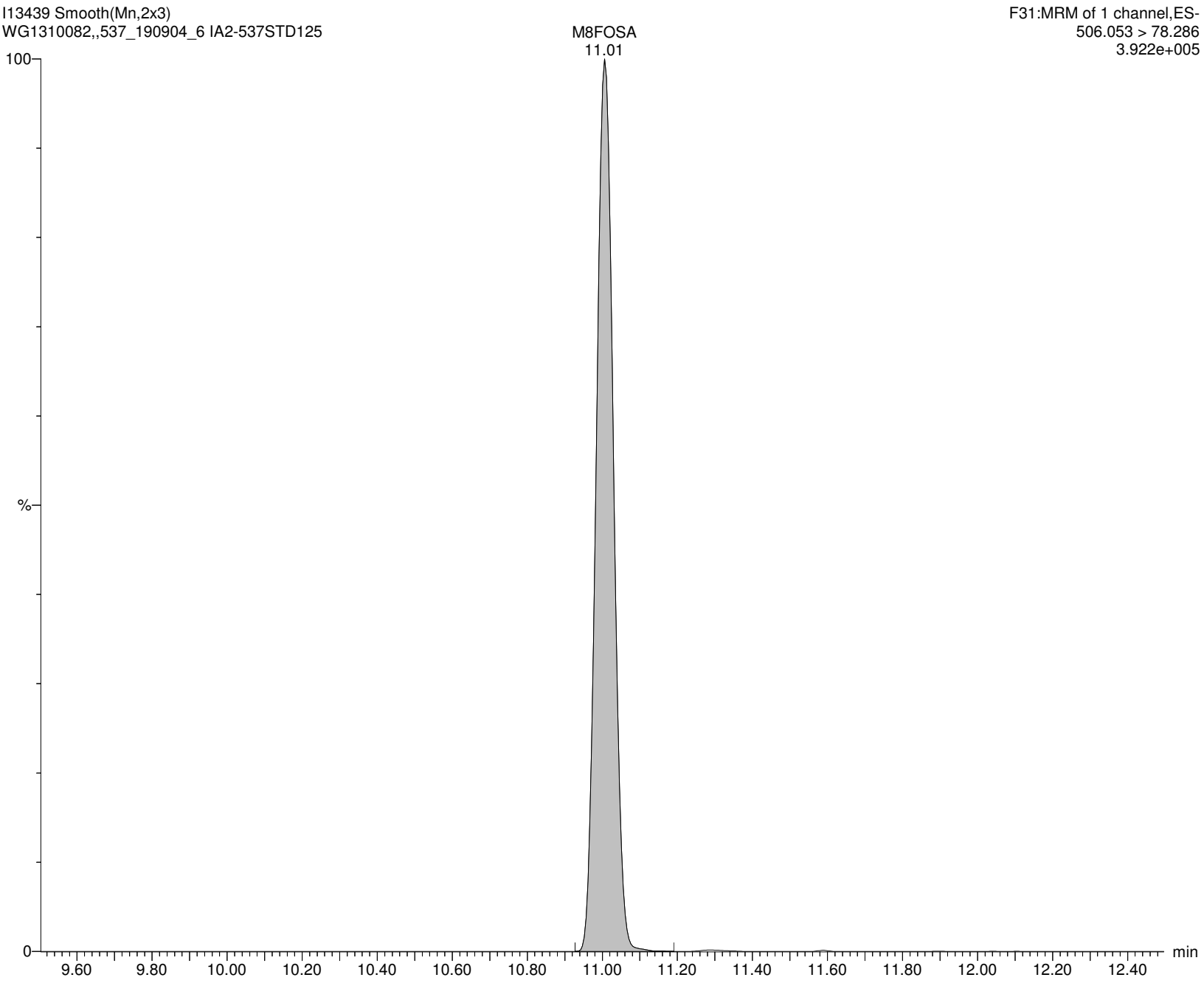

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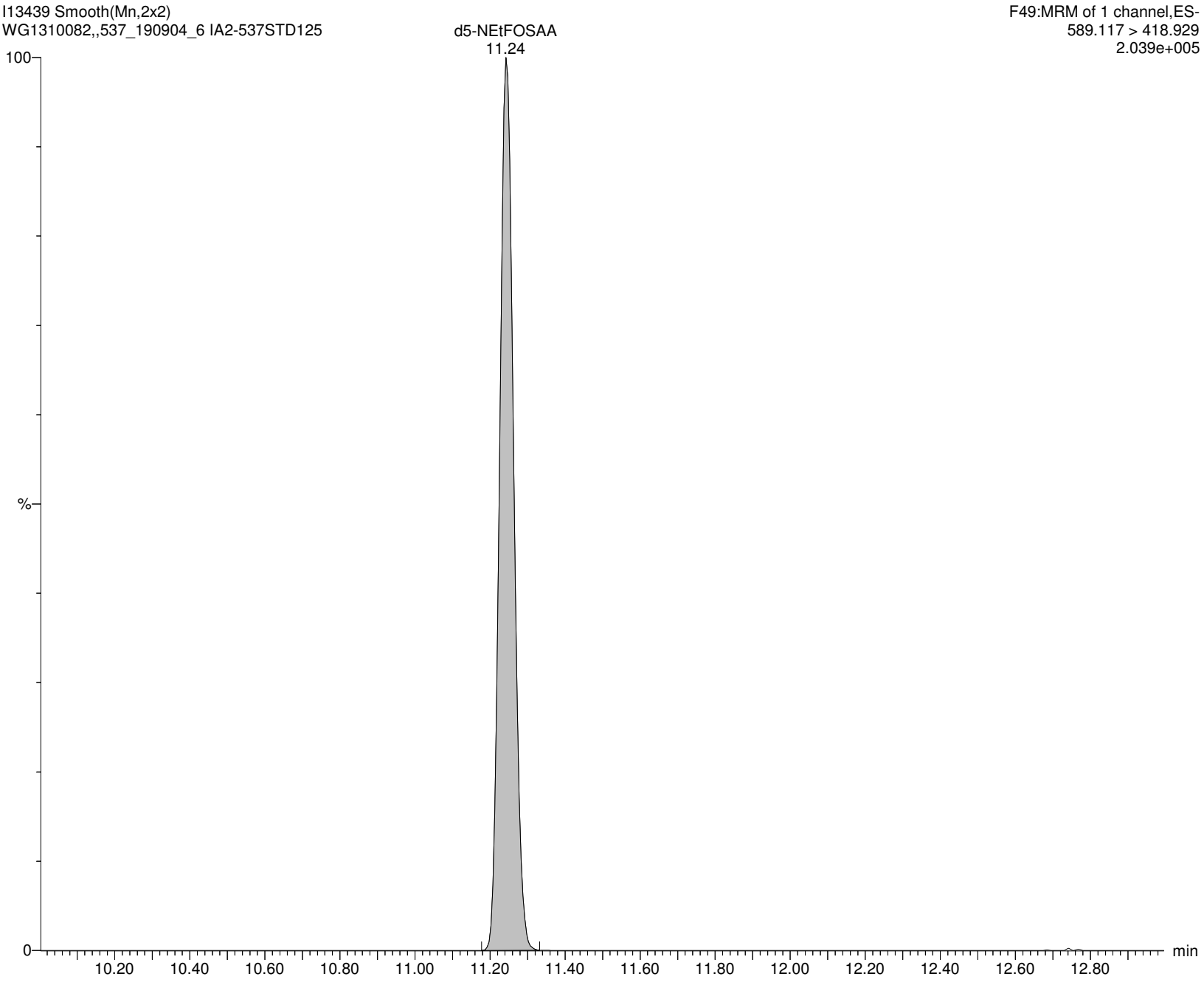

all concentration units in (ng/mL)

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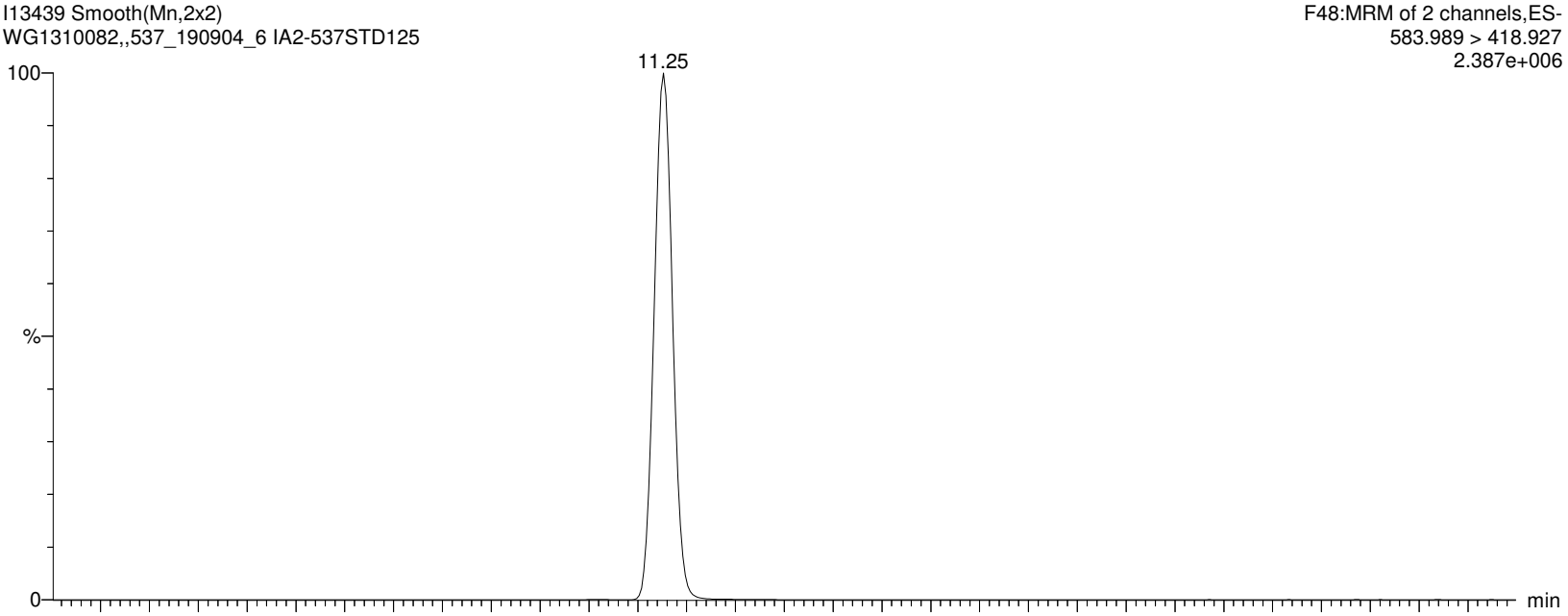

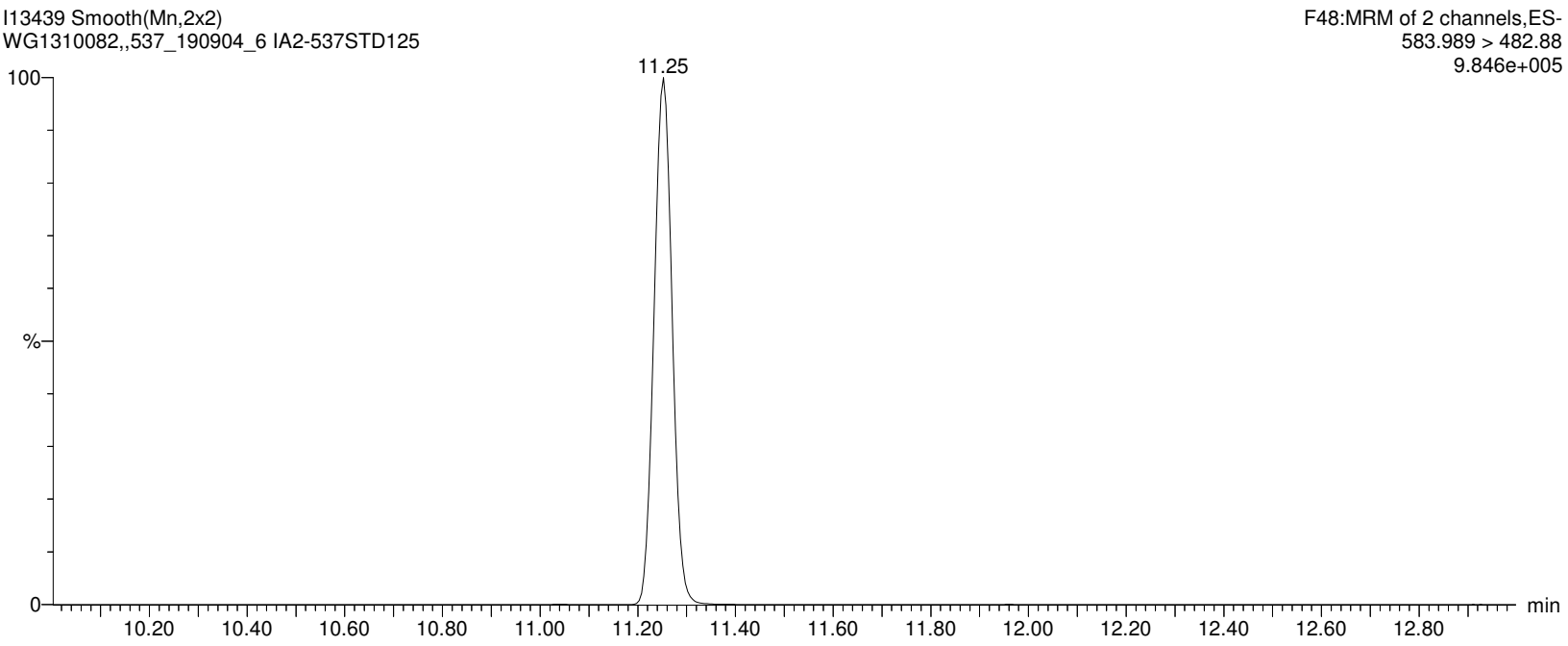

all concentration units in (ng/mL)

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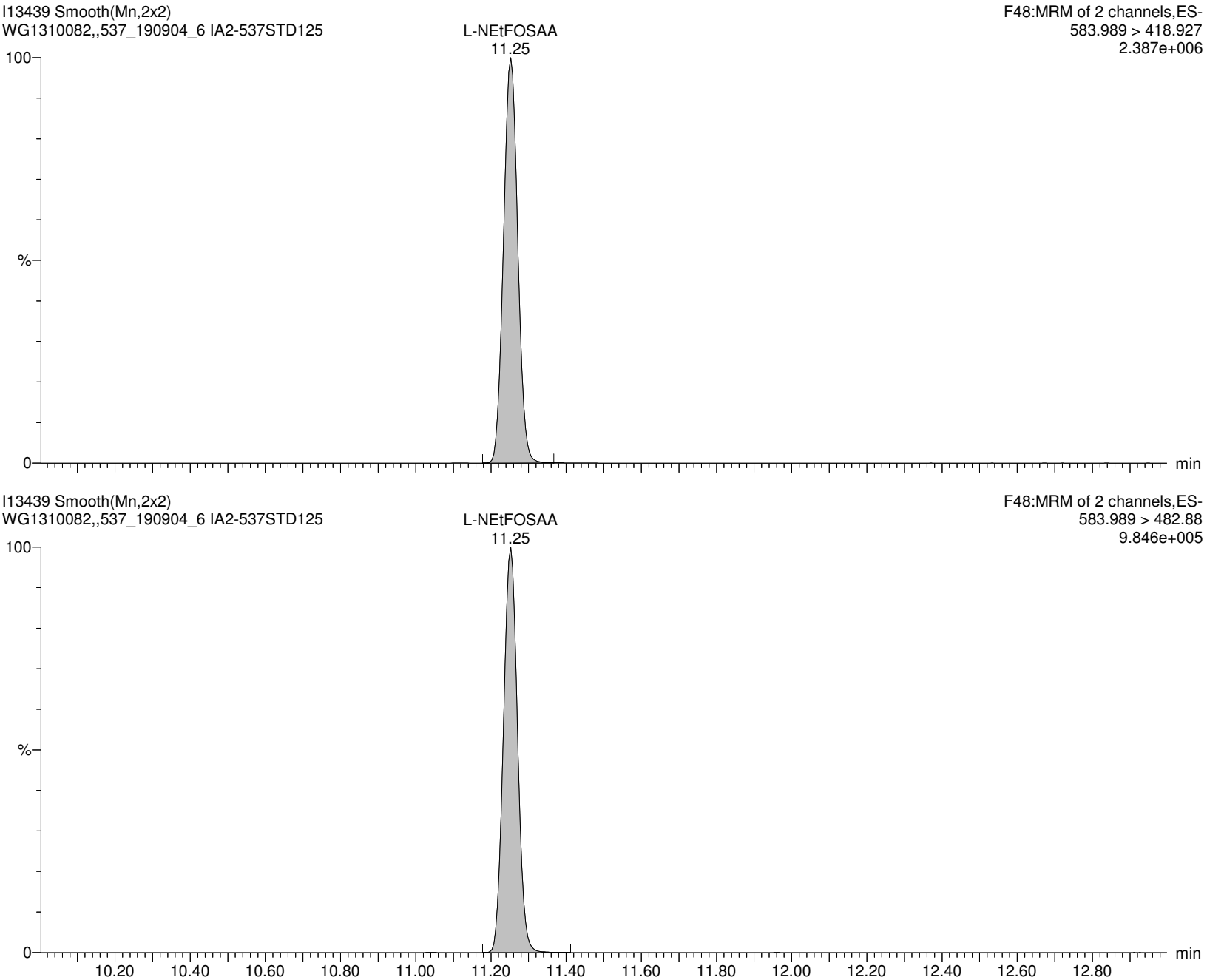

all concentration units in (ng/mL)

Alpha Analytical Inc.
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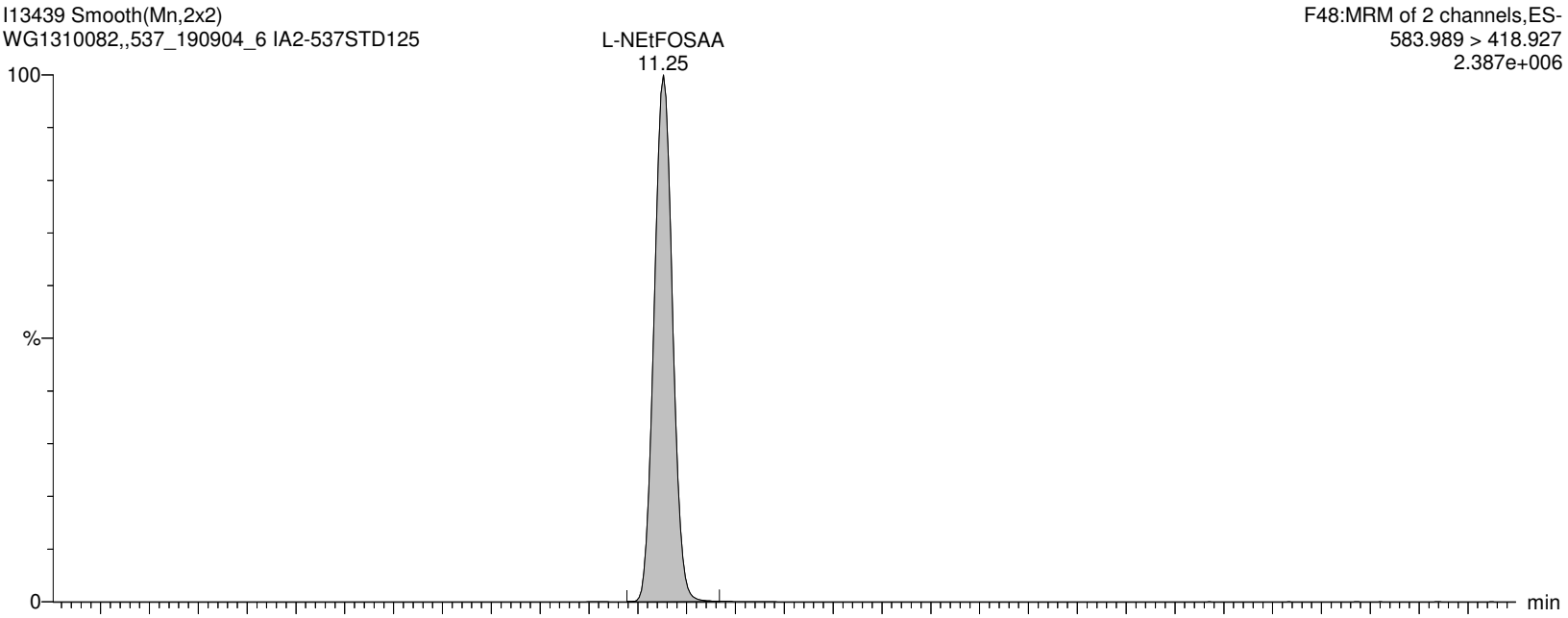

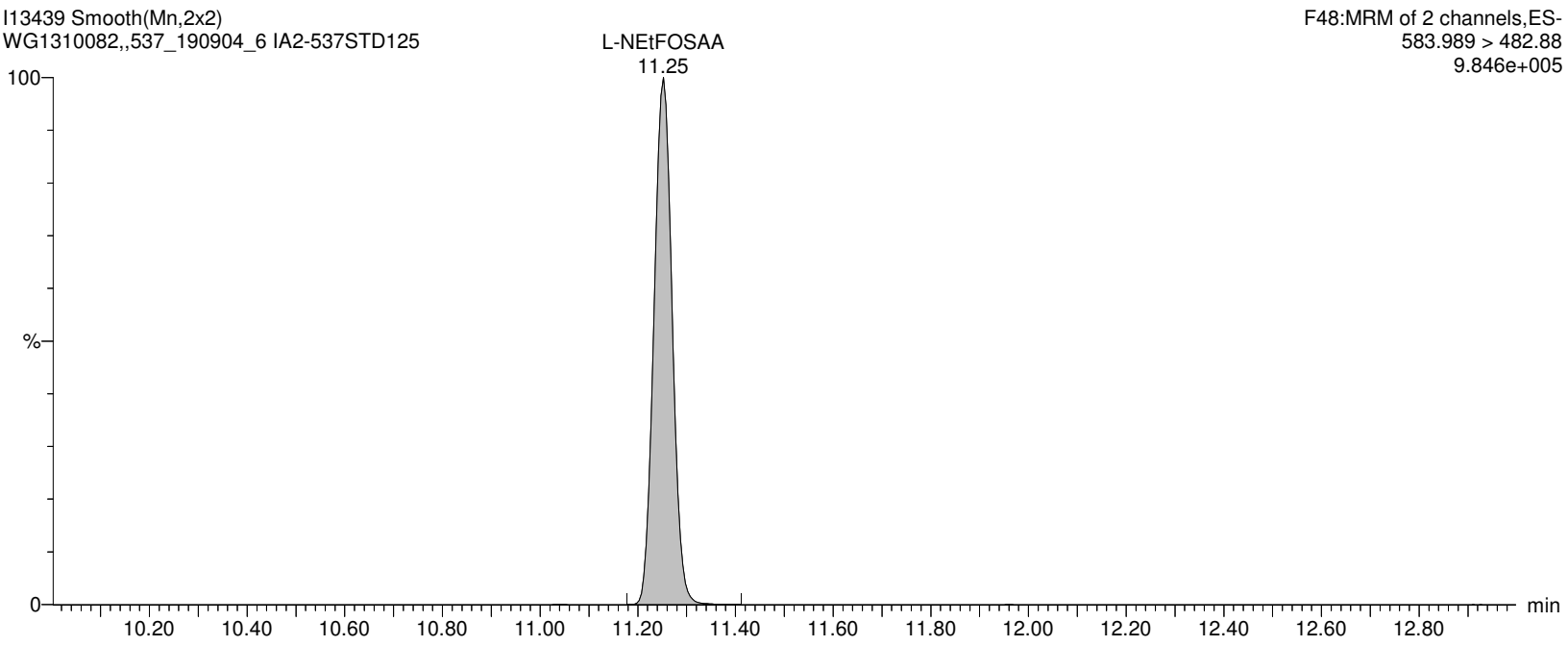

all concentration units in (ng/mL)

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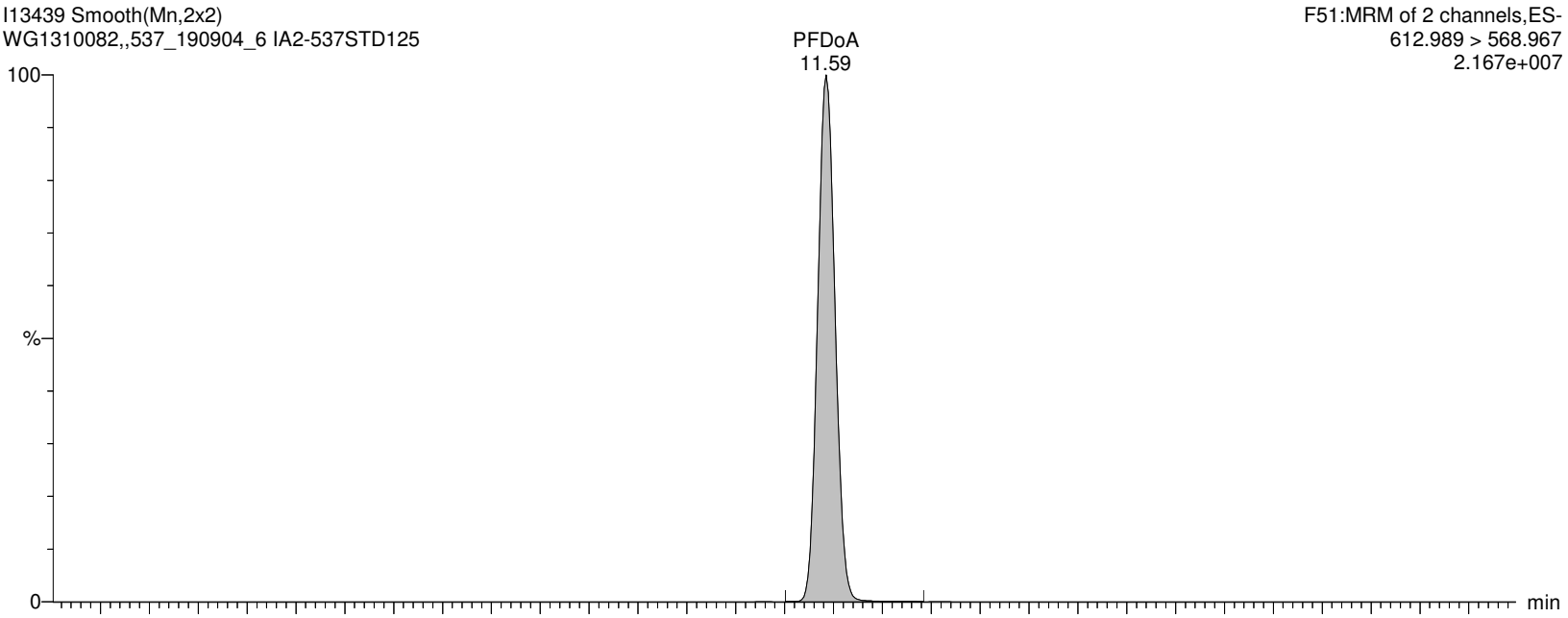

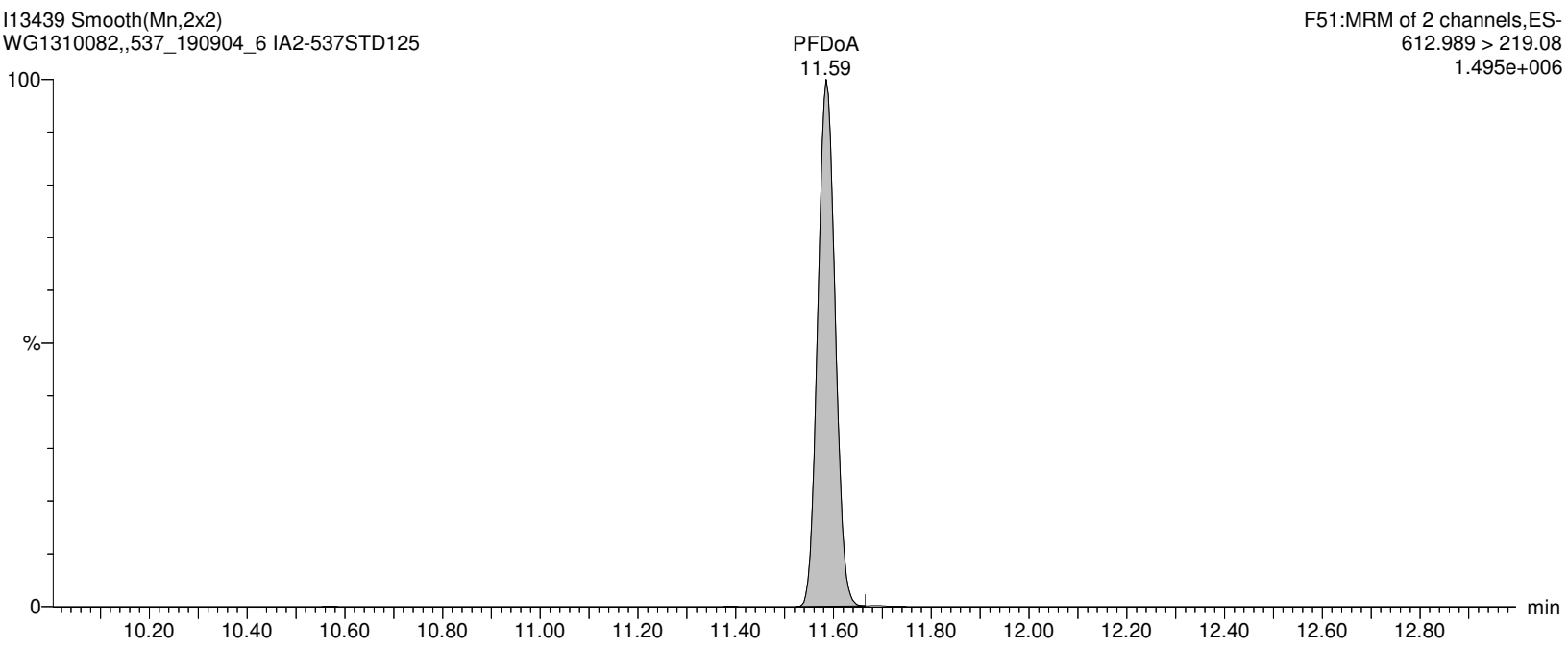

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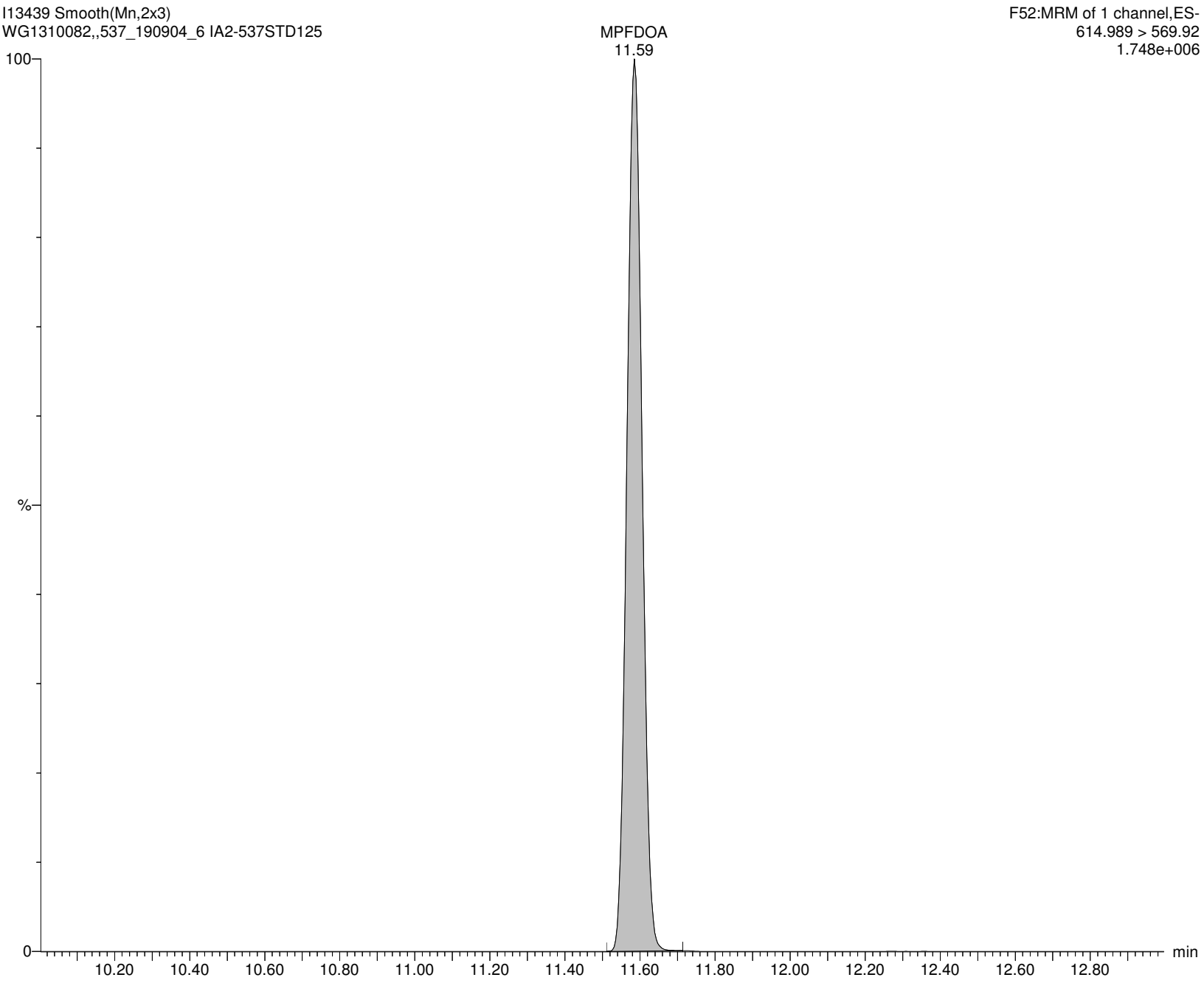

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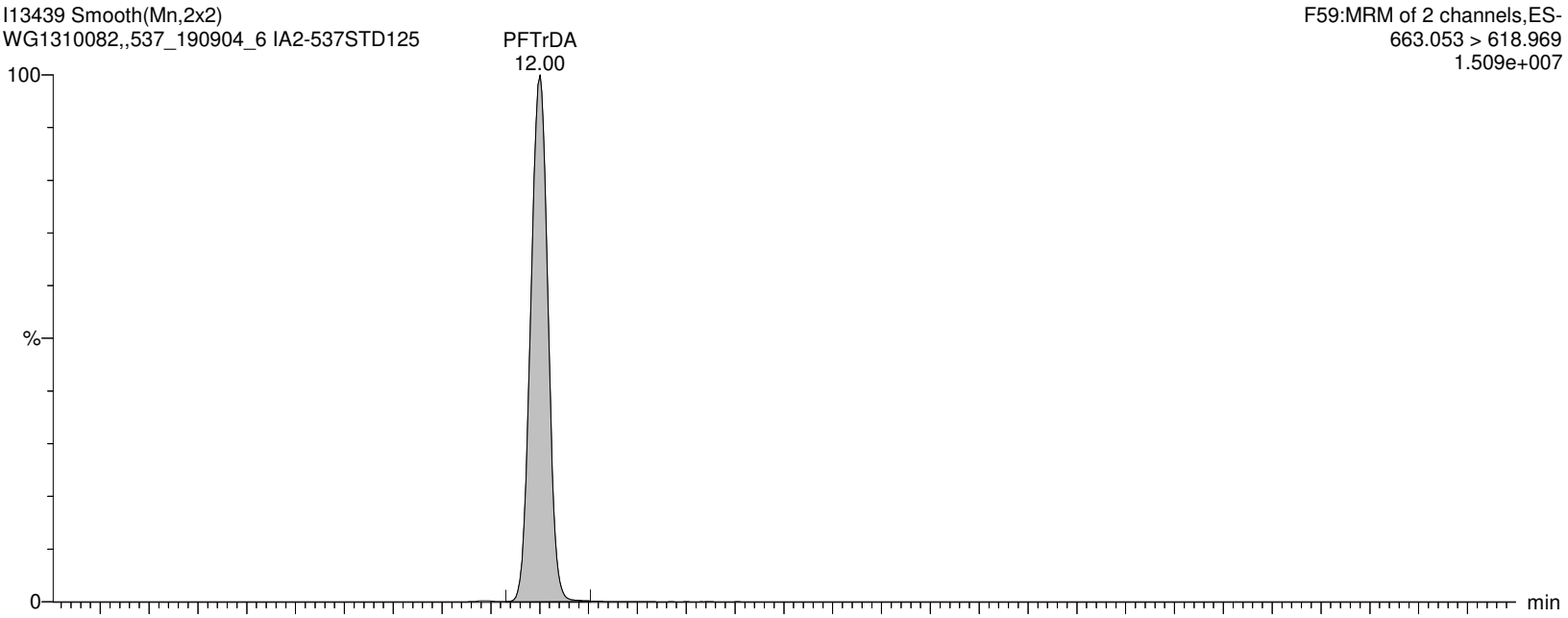

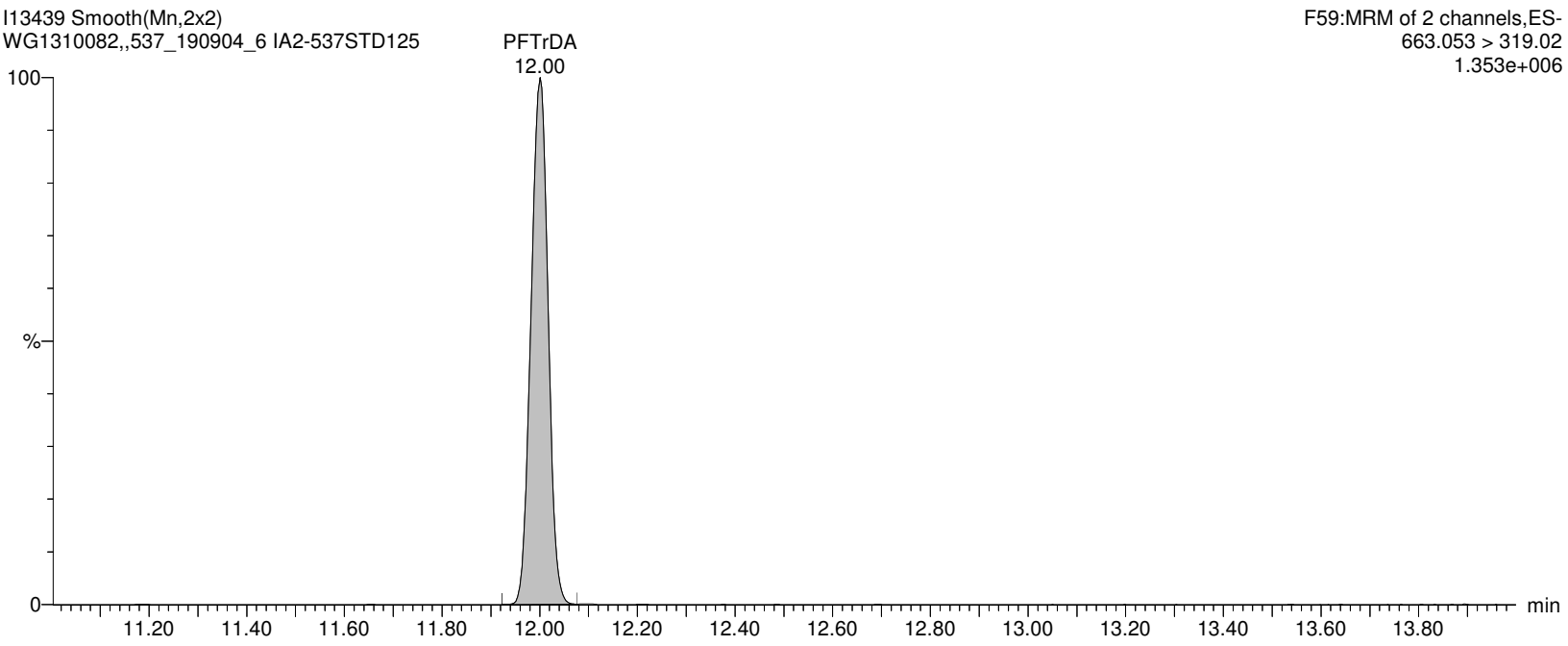

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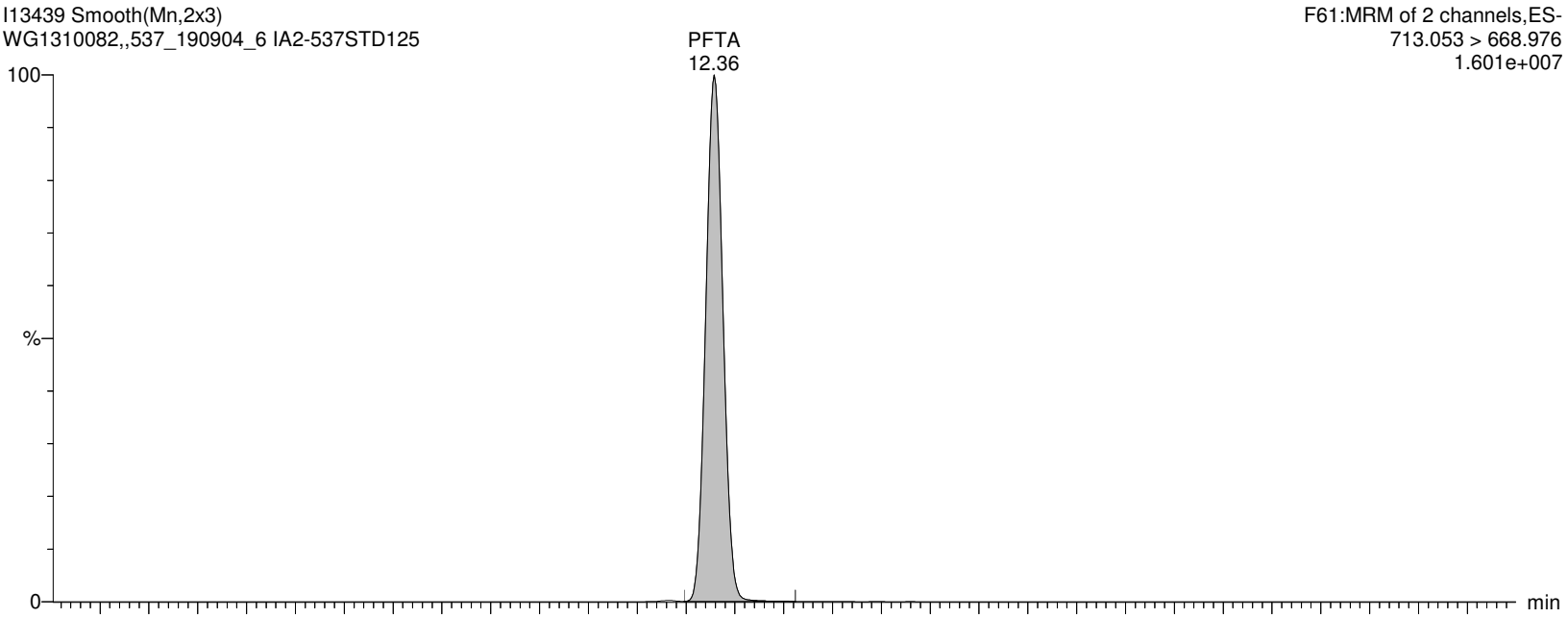

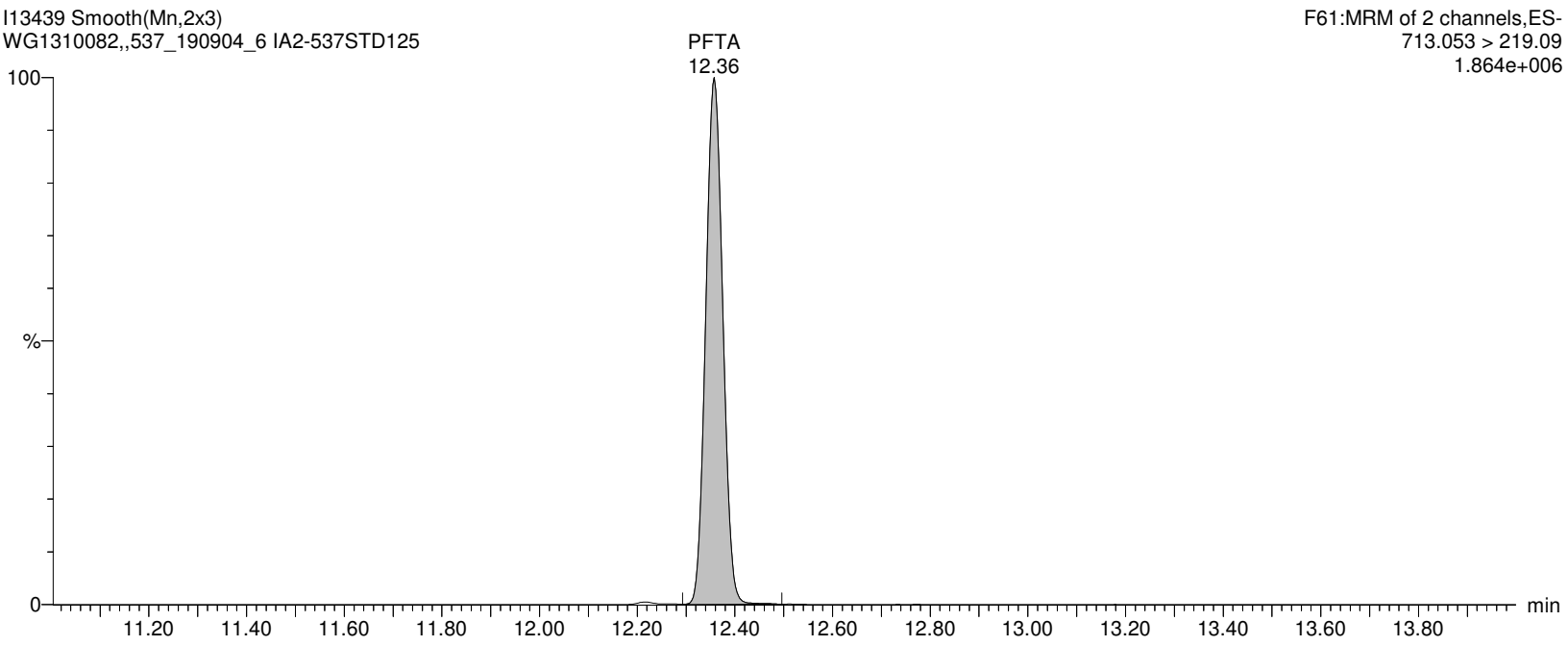

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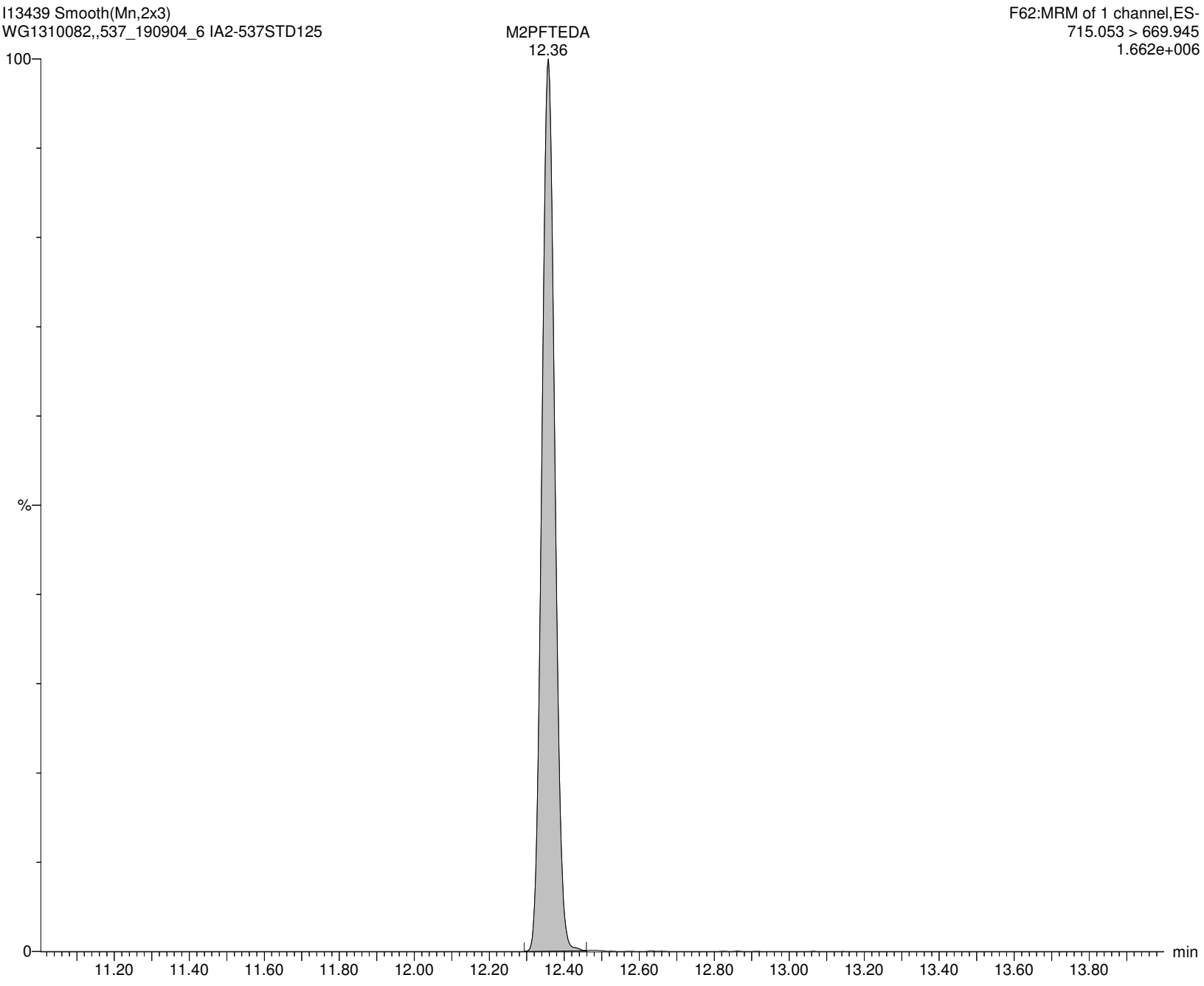

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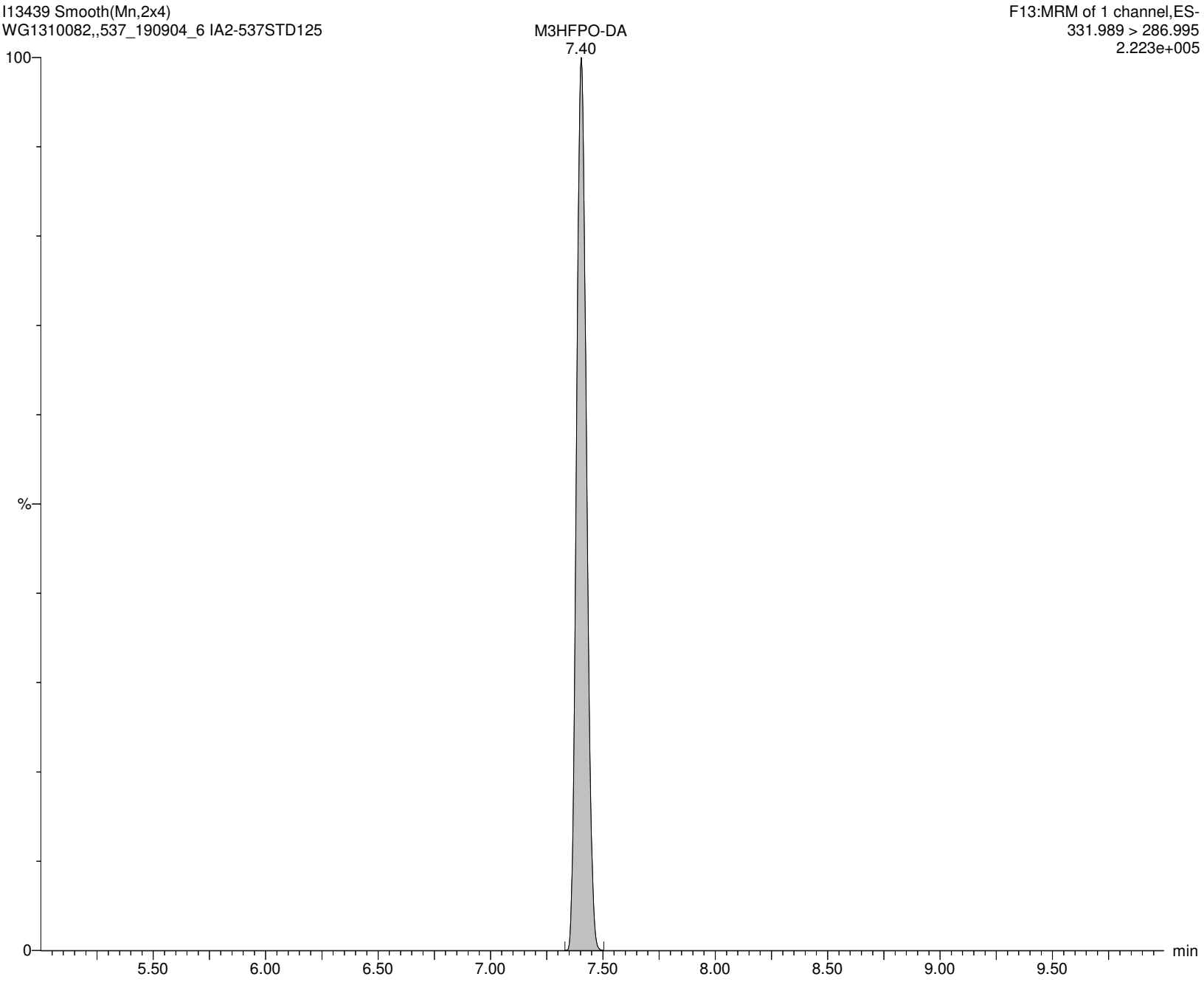

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:42:59 Eastern Standard Time

Name: I13439
ID: IA2-537STD125
Date: 18-Nov-2019
Time: 12:00:10
Description: WG1310082,,537_190904_6
User: LCMS02:JW
Vial: 1:A,7
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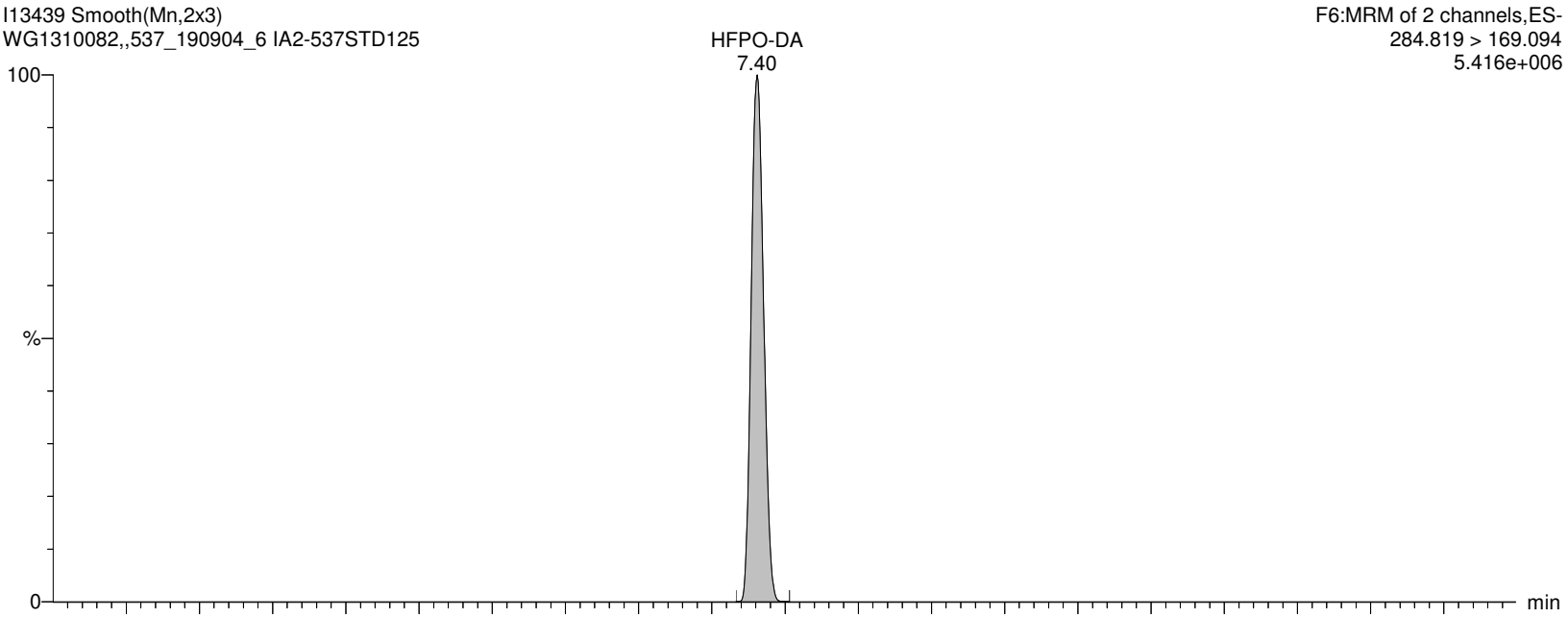

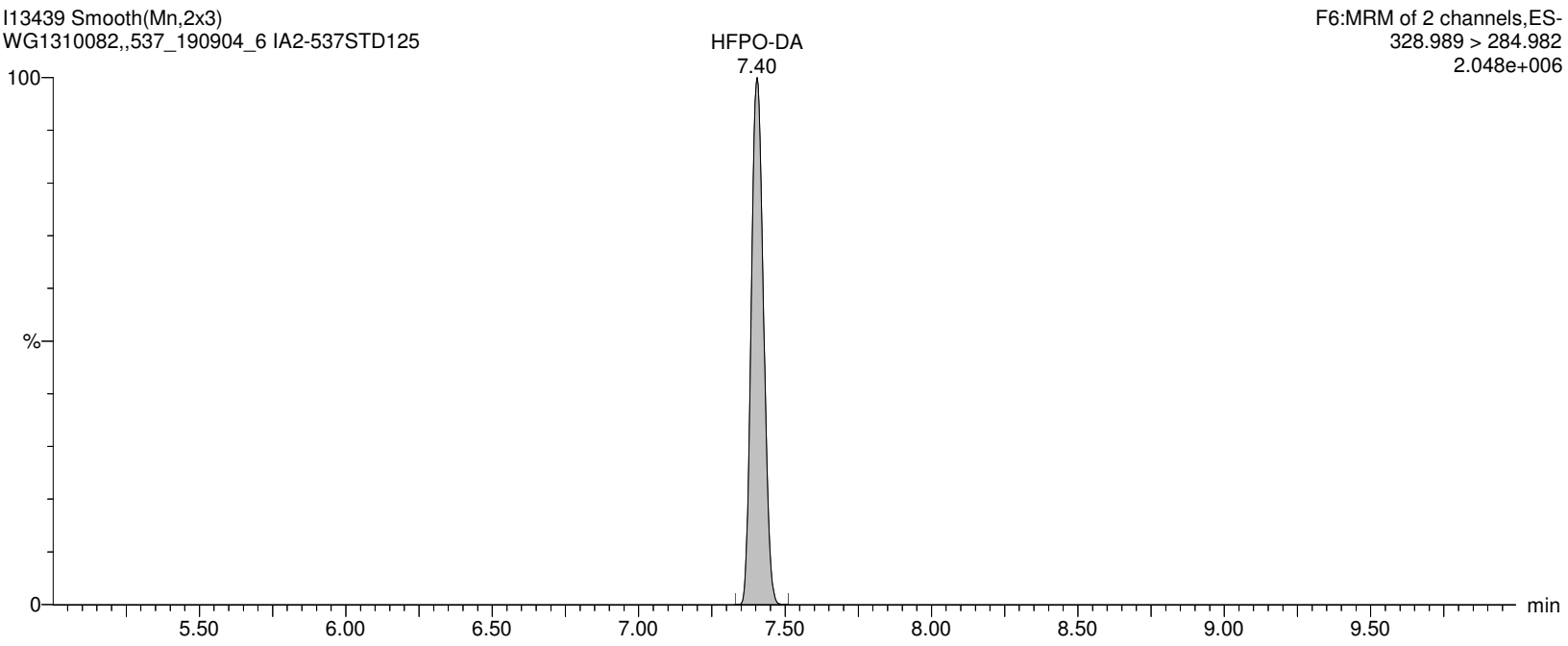

all concentration units in (ng/mL)

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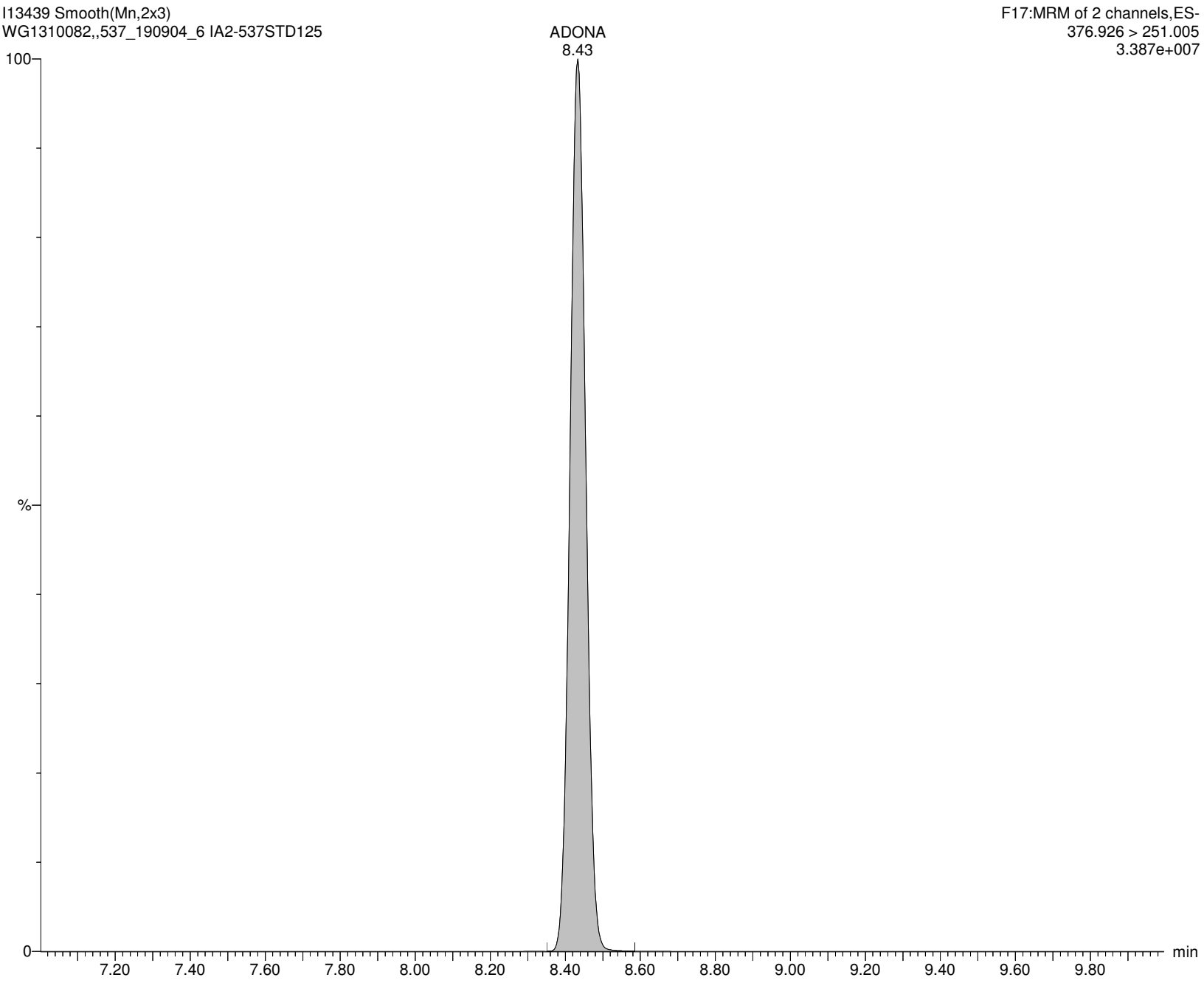

all concentration units in (ng/mL)

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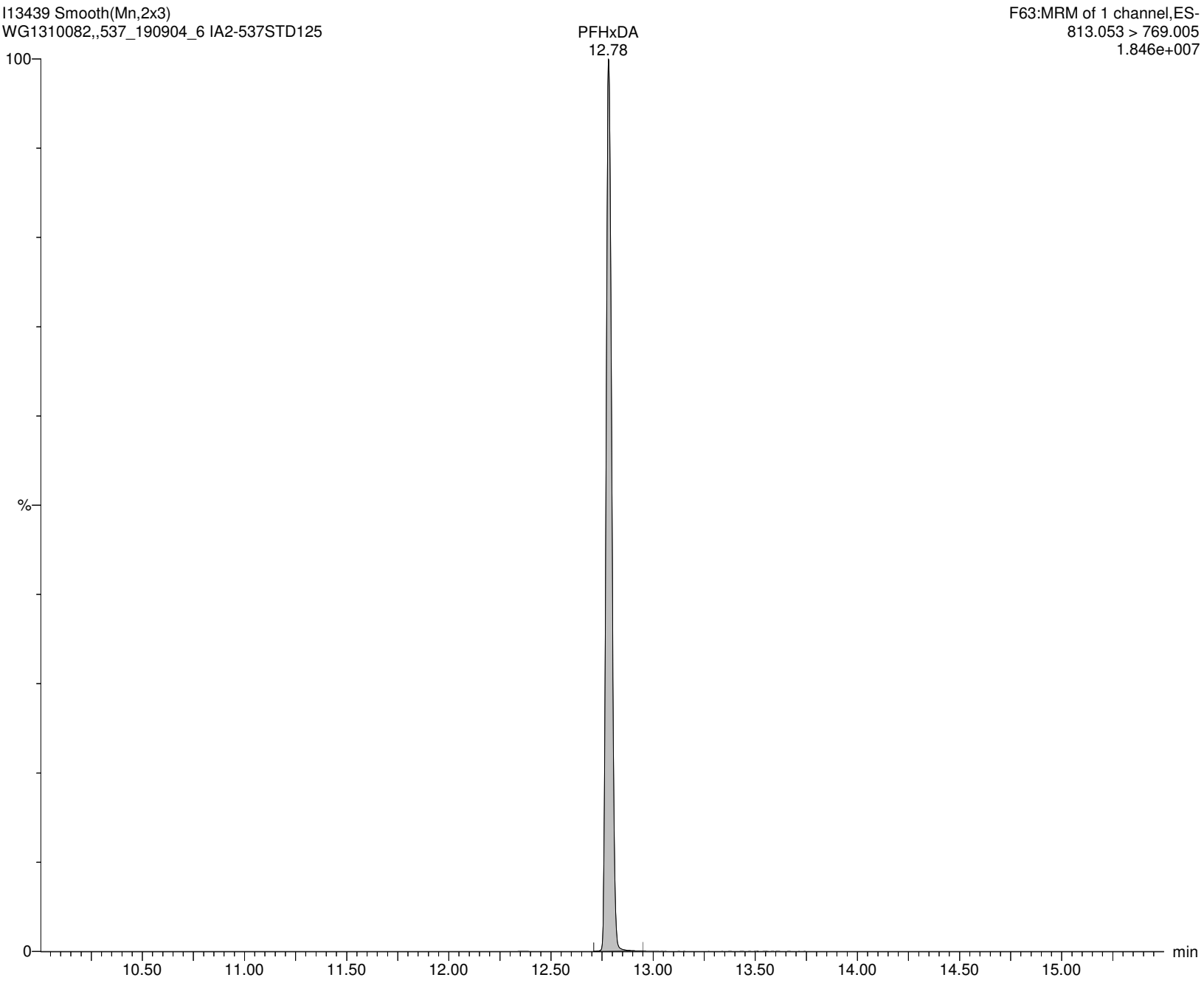

all concentration units in (ng/mL)

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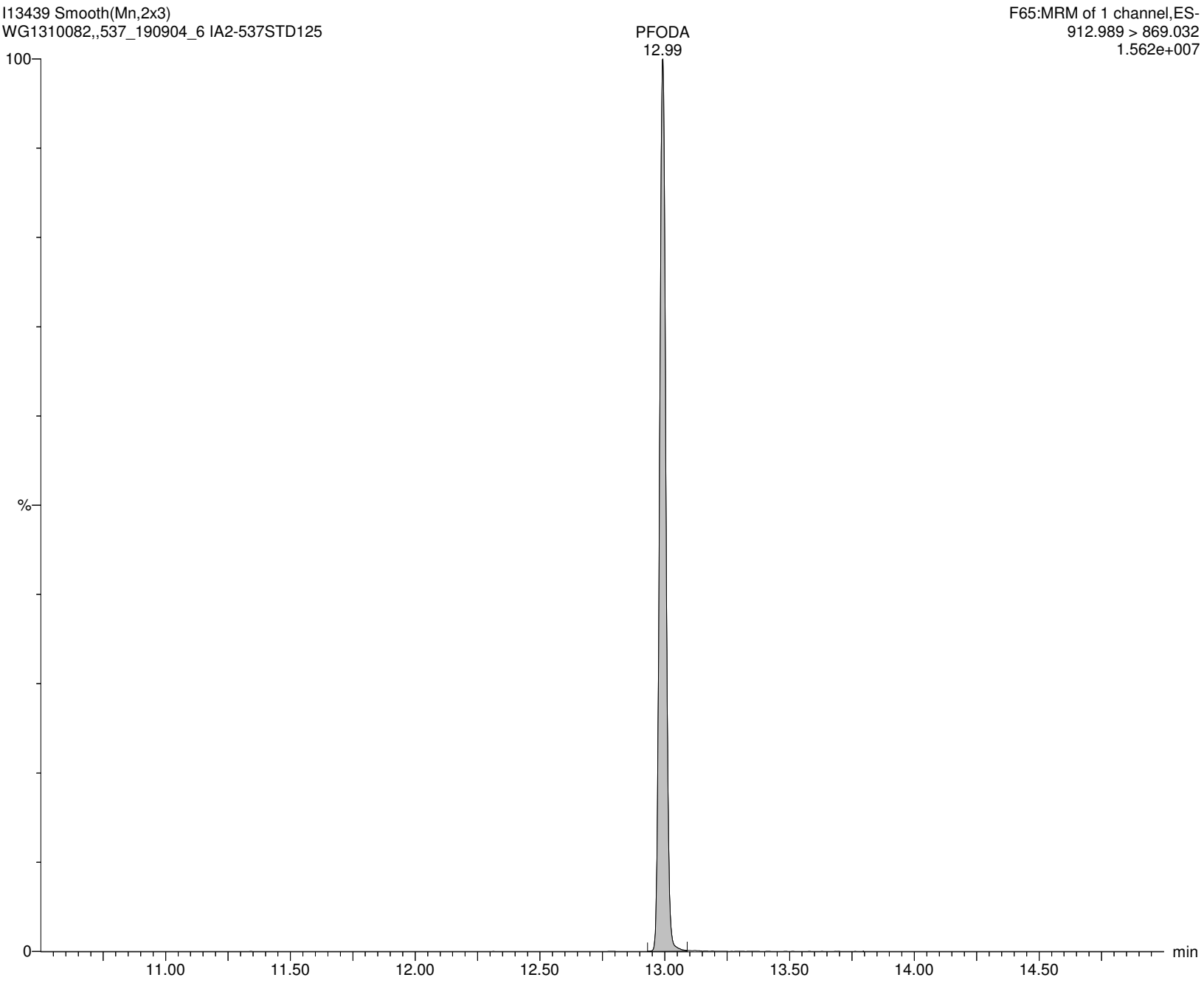

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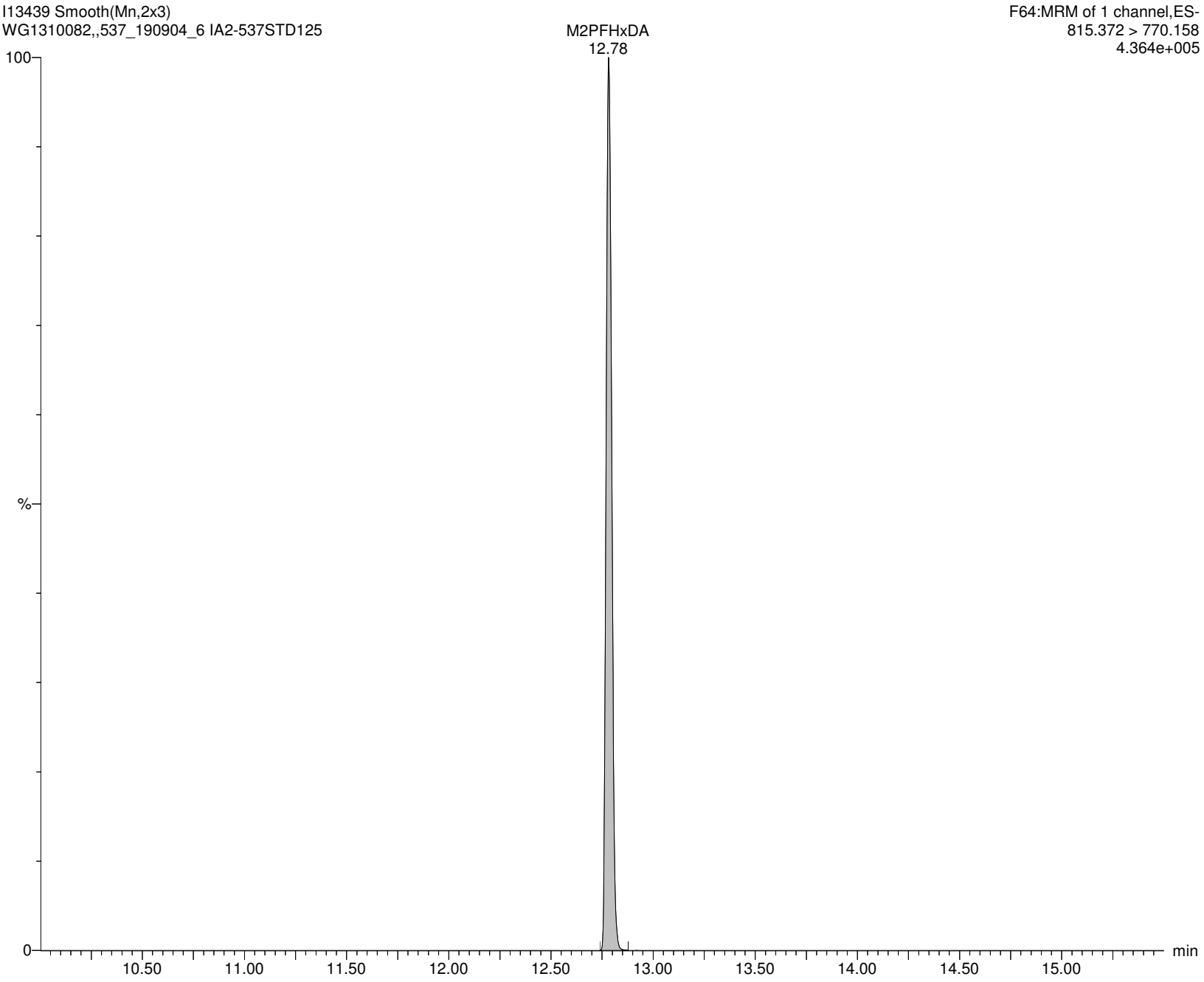

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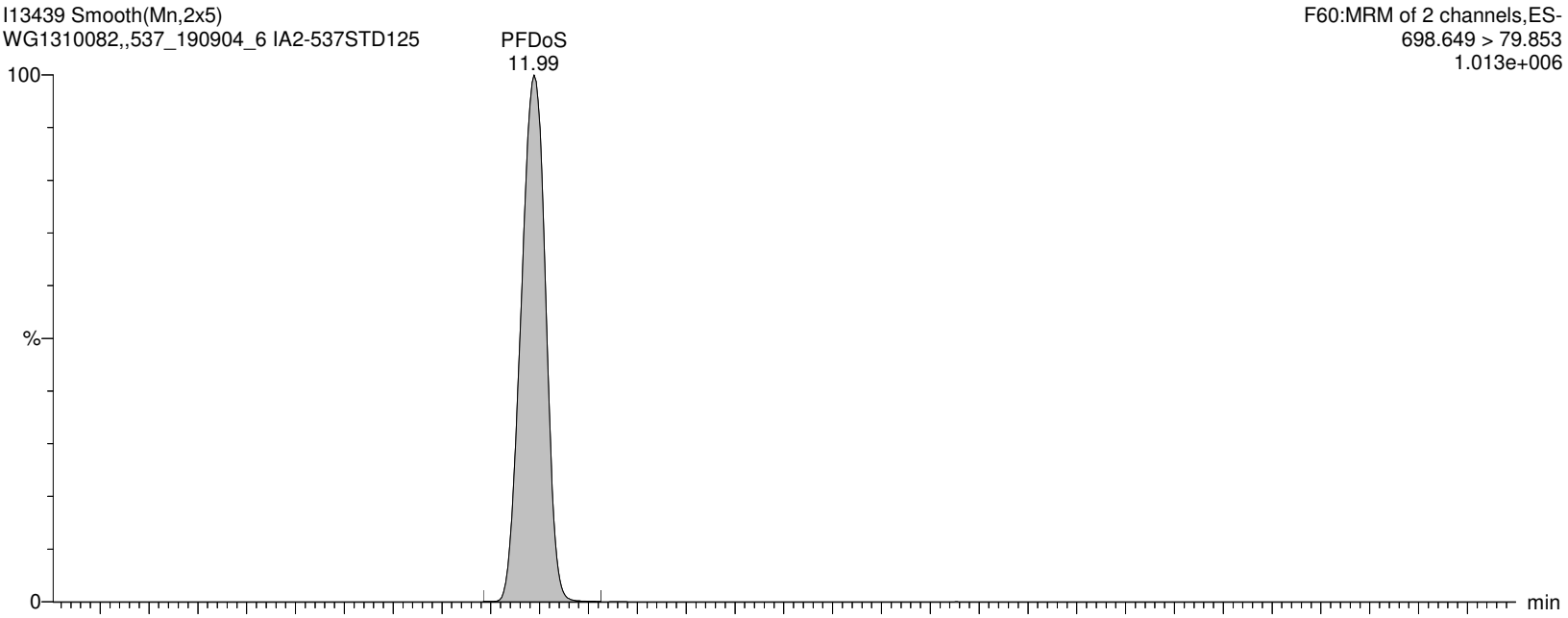

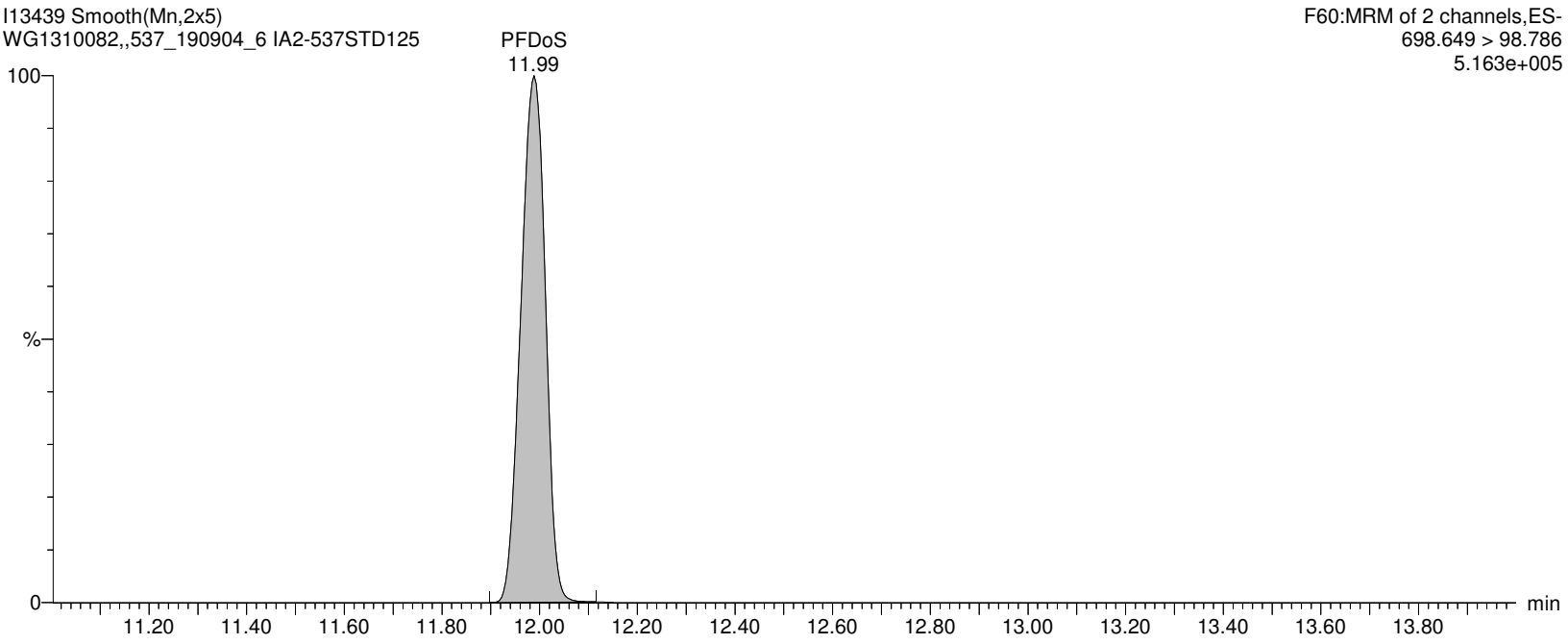

all concentration units in (ng/mL)

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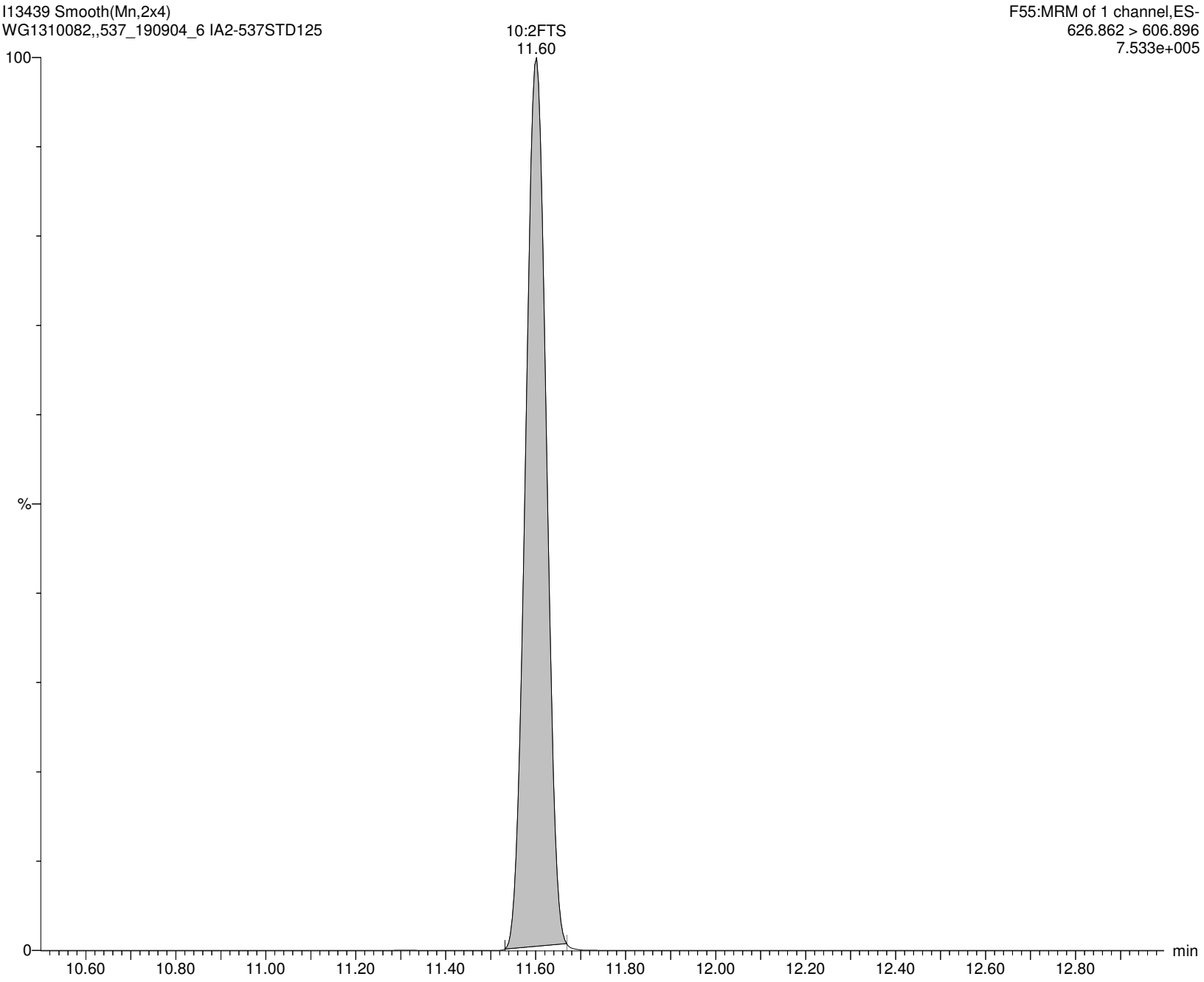

all concentration units in (ng/mL)

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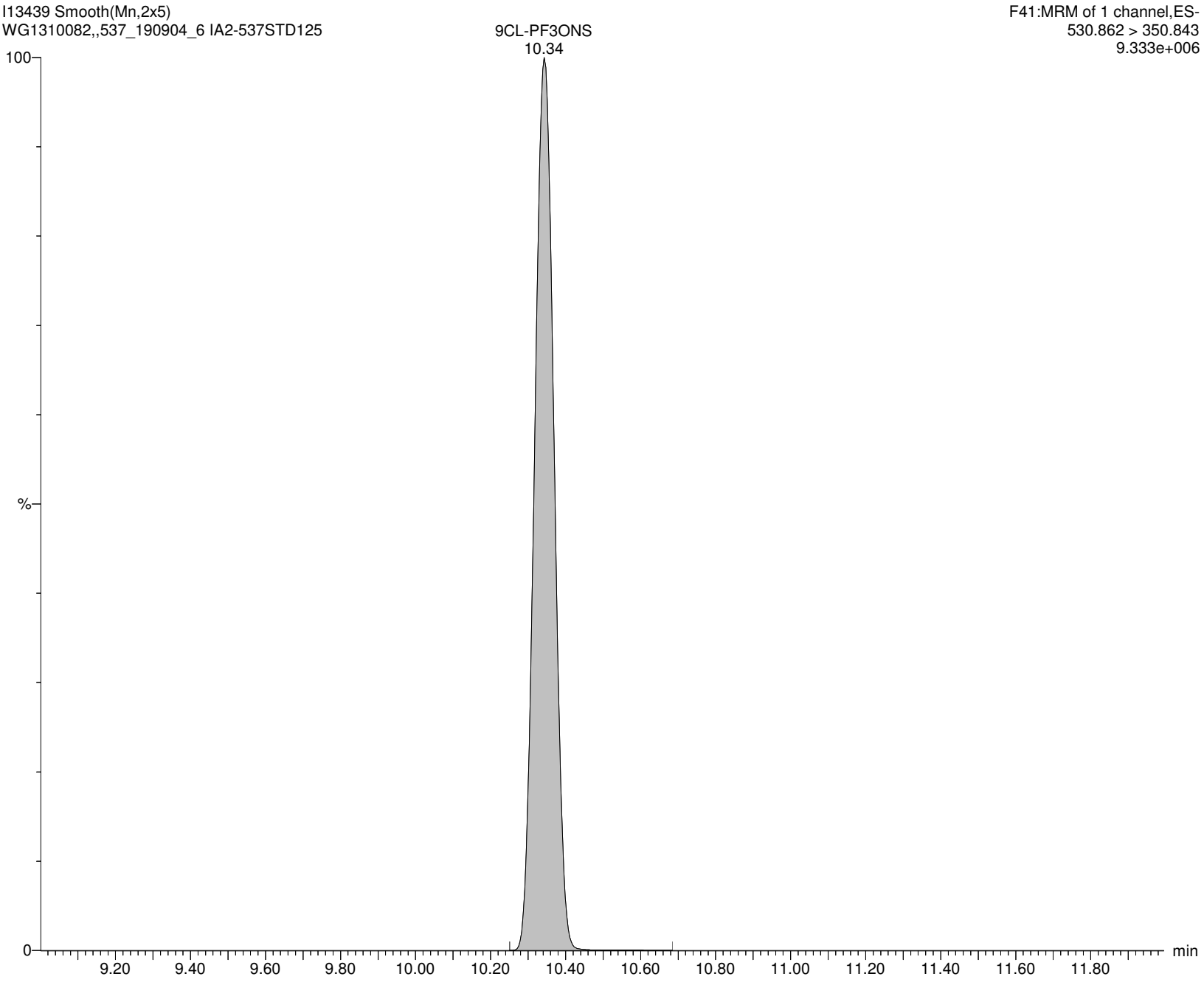

all concentration units in (ng/mL)

Alpha Analytical Inc.
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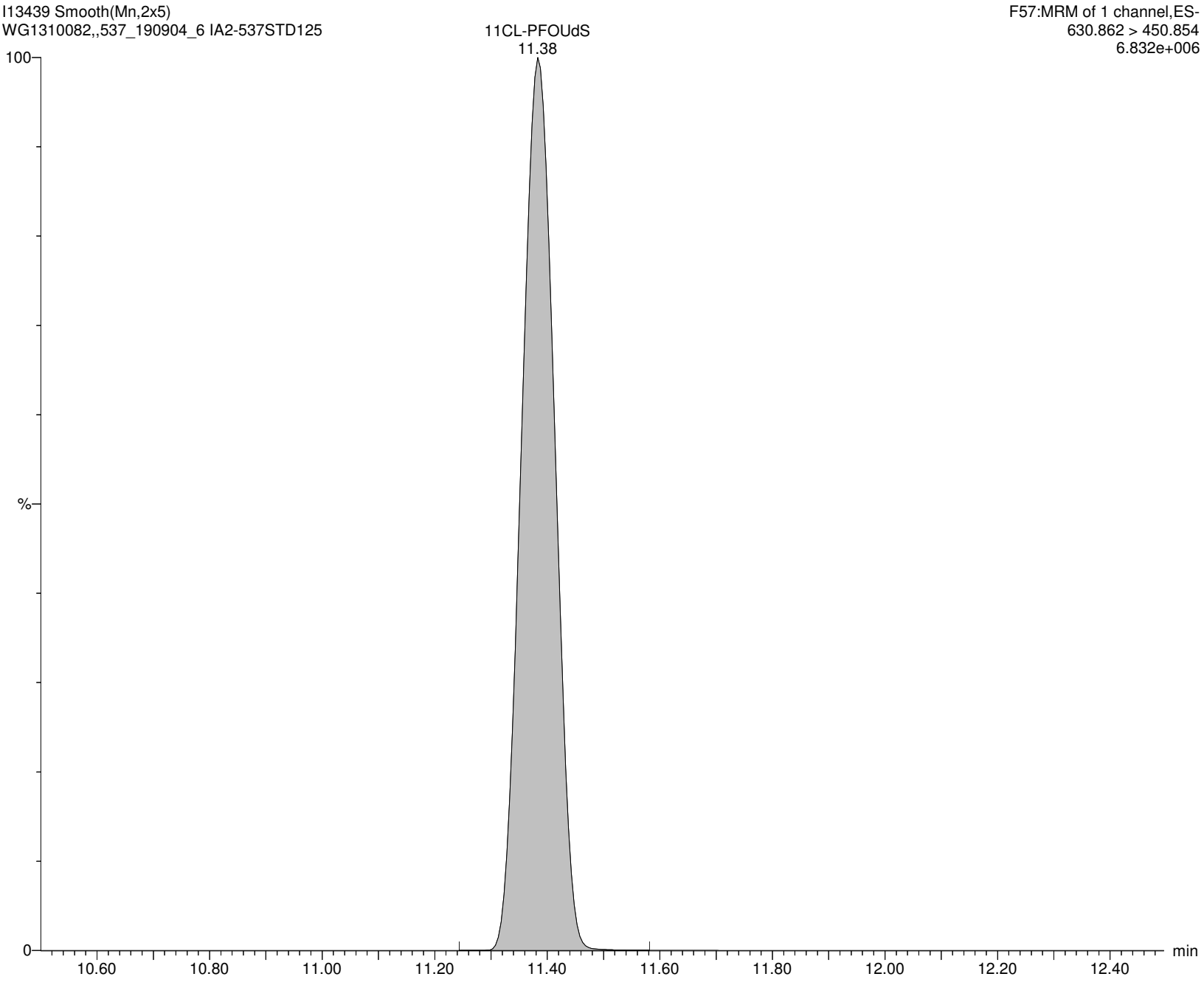

all concentration units in (ng/mL)

Alpha Analytical Inc.
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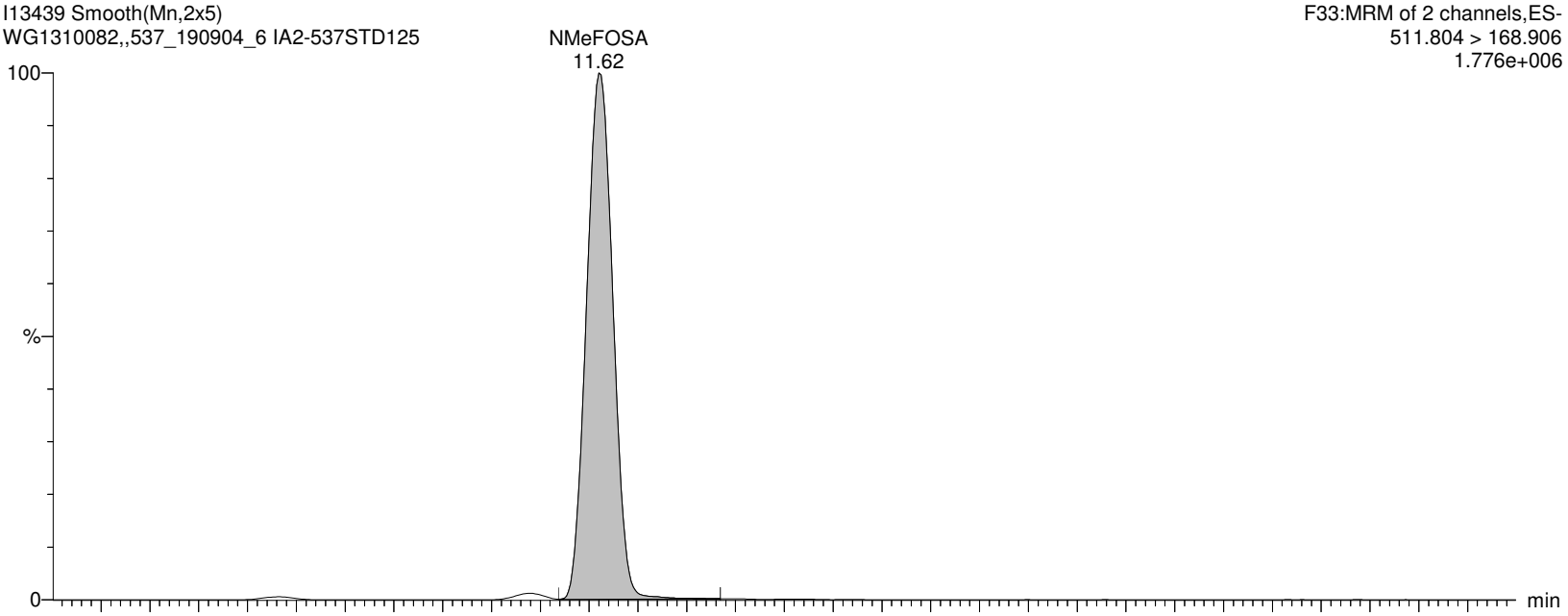

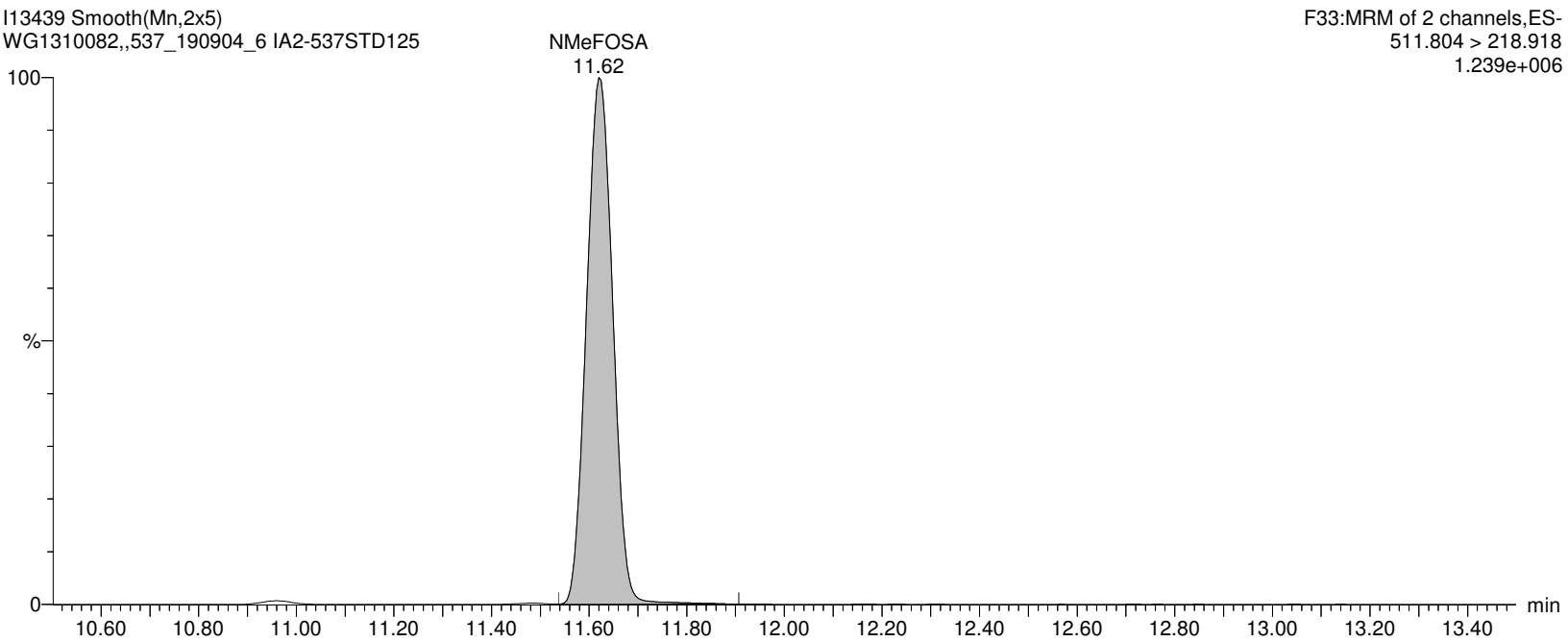

all concentration units in (ng/mL)

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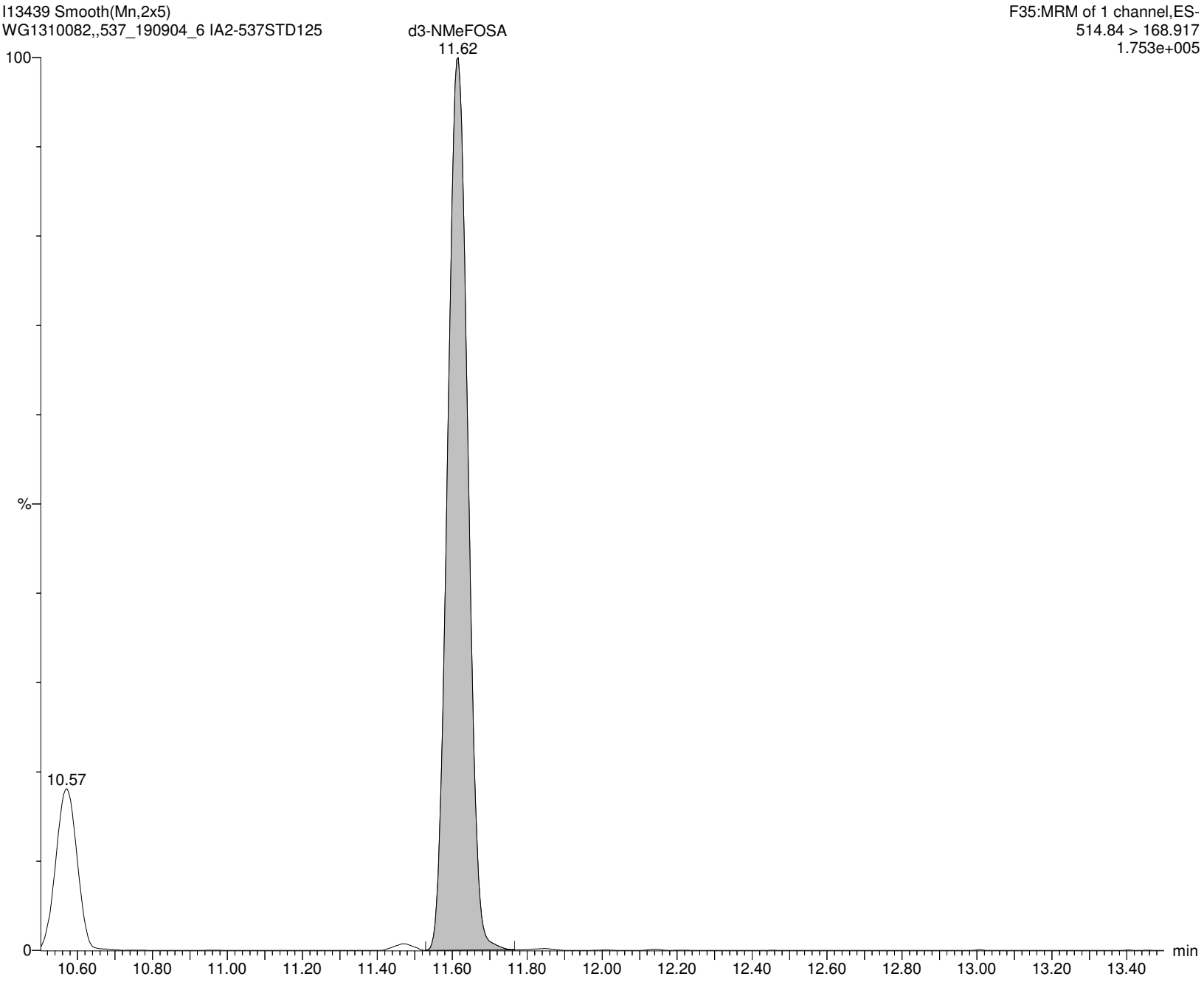

all concentration units in (ng/mL)

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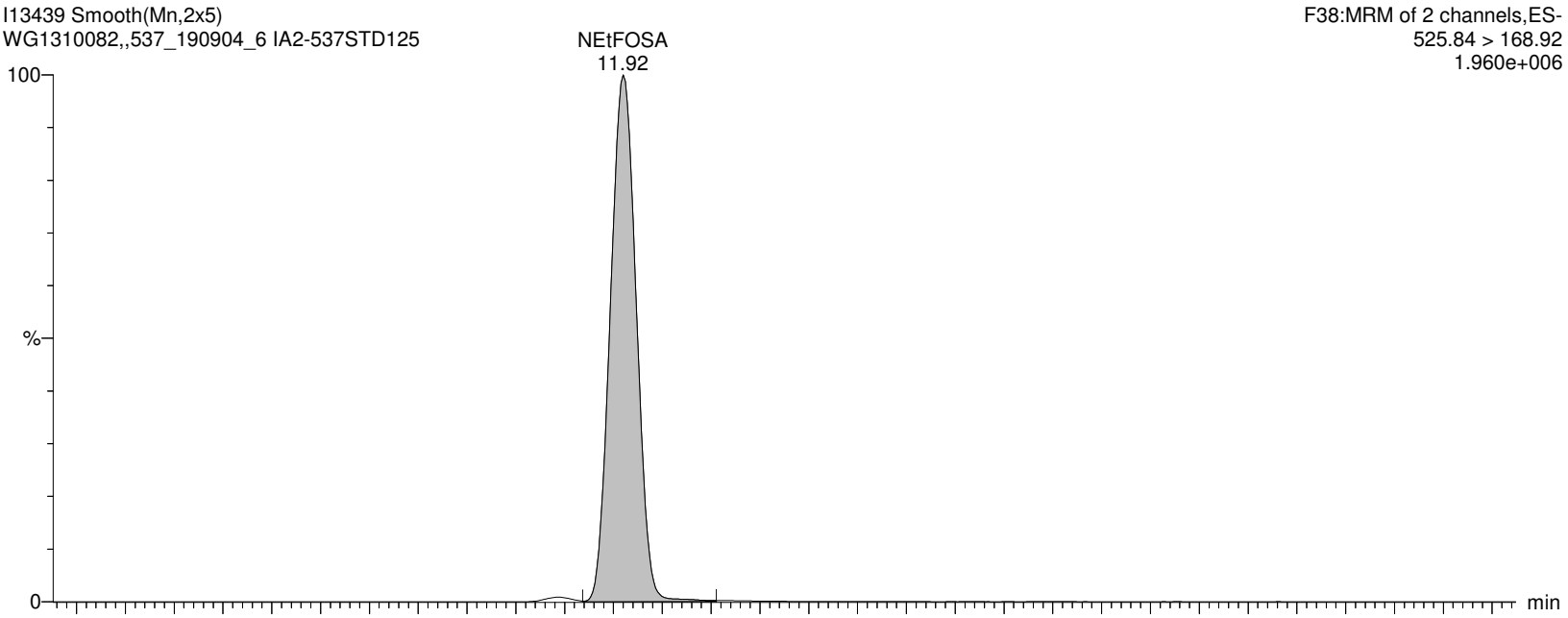
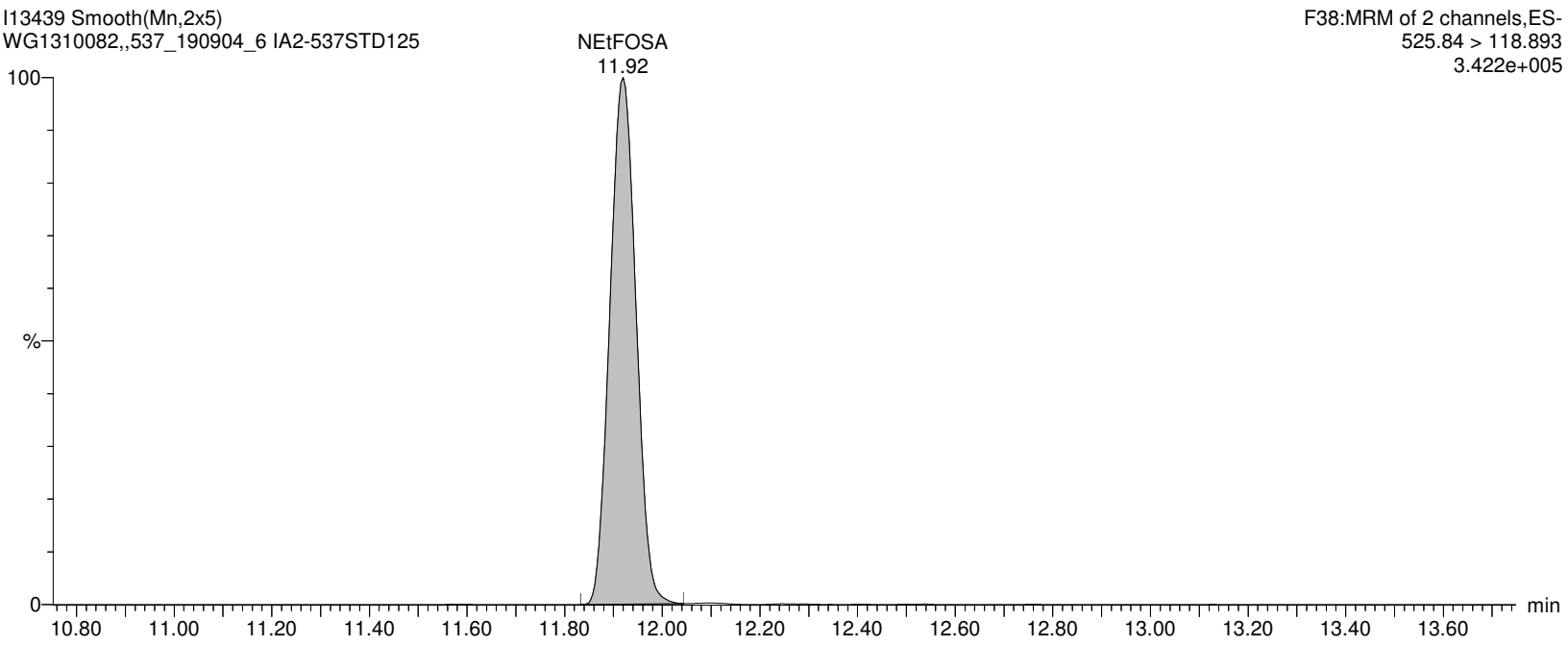
NEtFOSA





all concentration units in (ng/mL)

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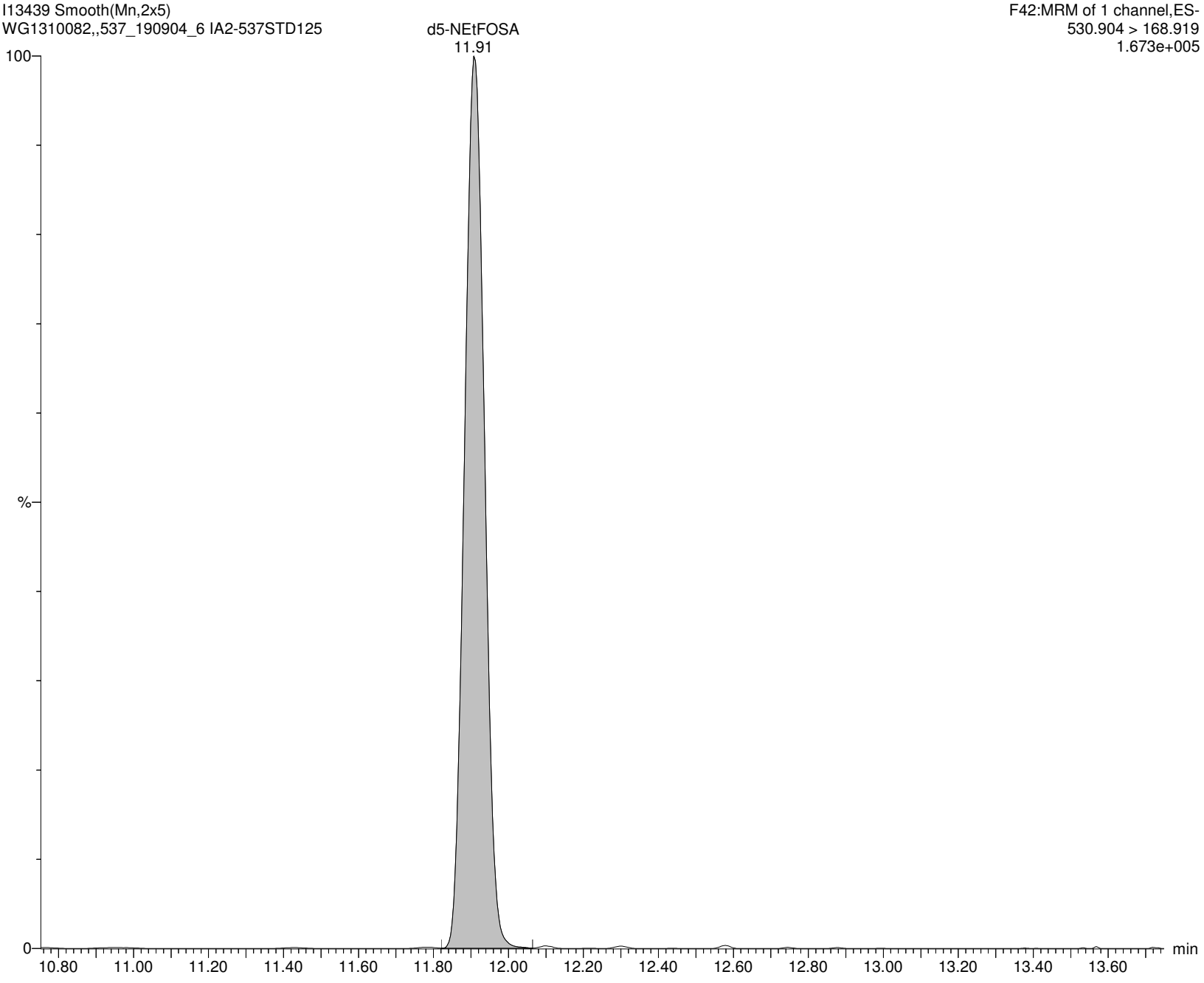

all concentration units in (ng/mL)

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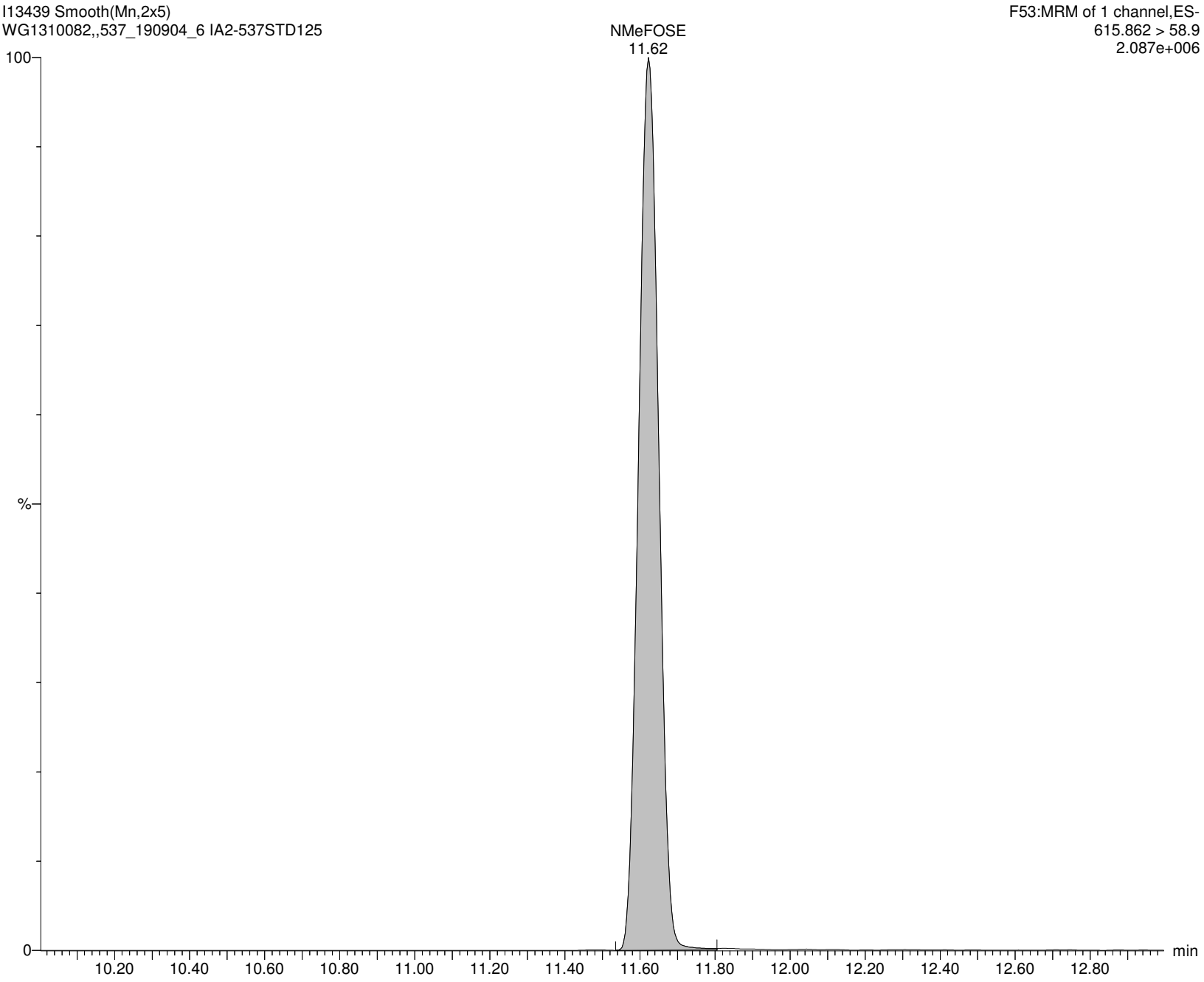

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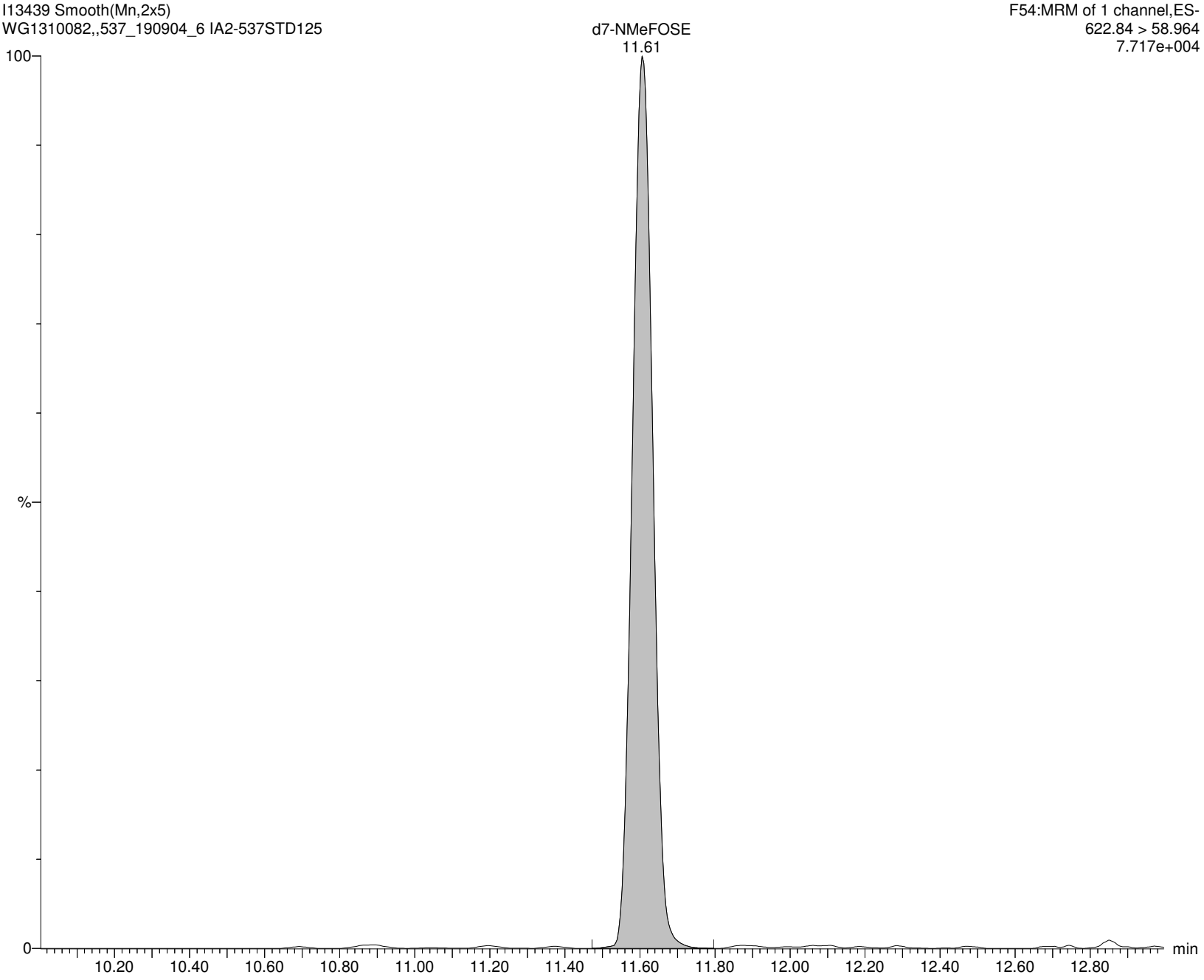

all concentration units in (ng/mL)

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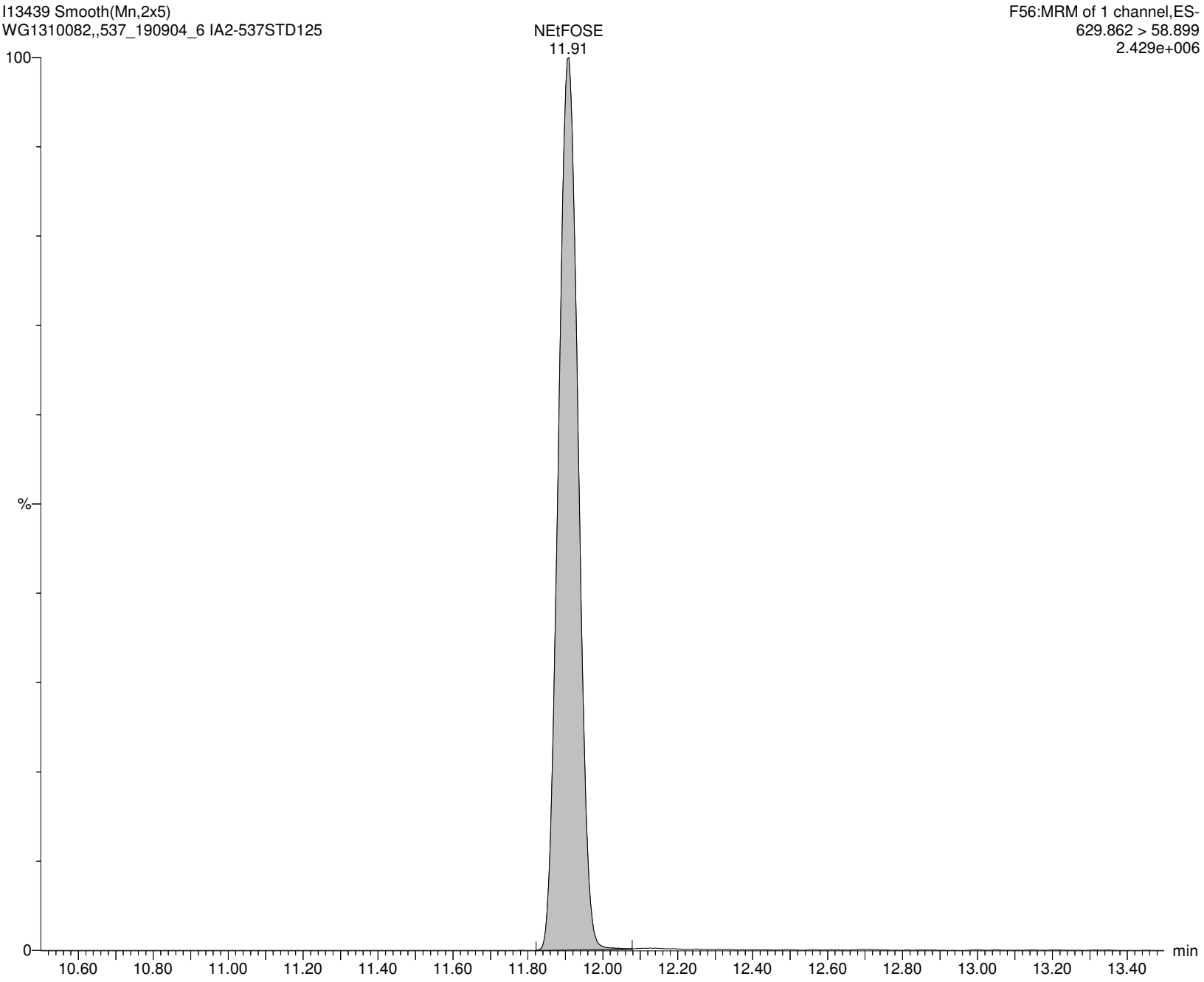

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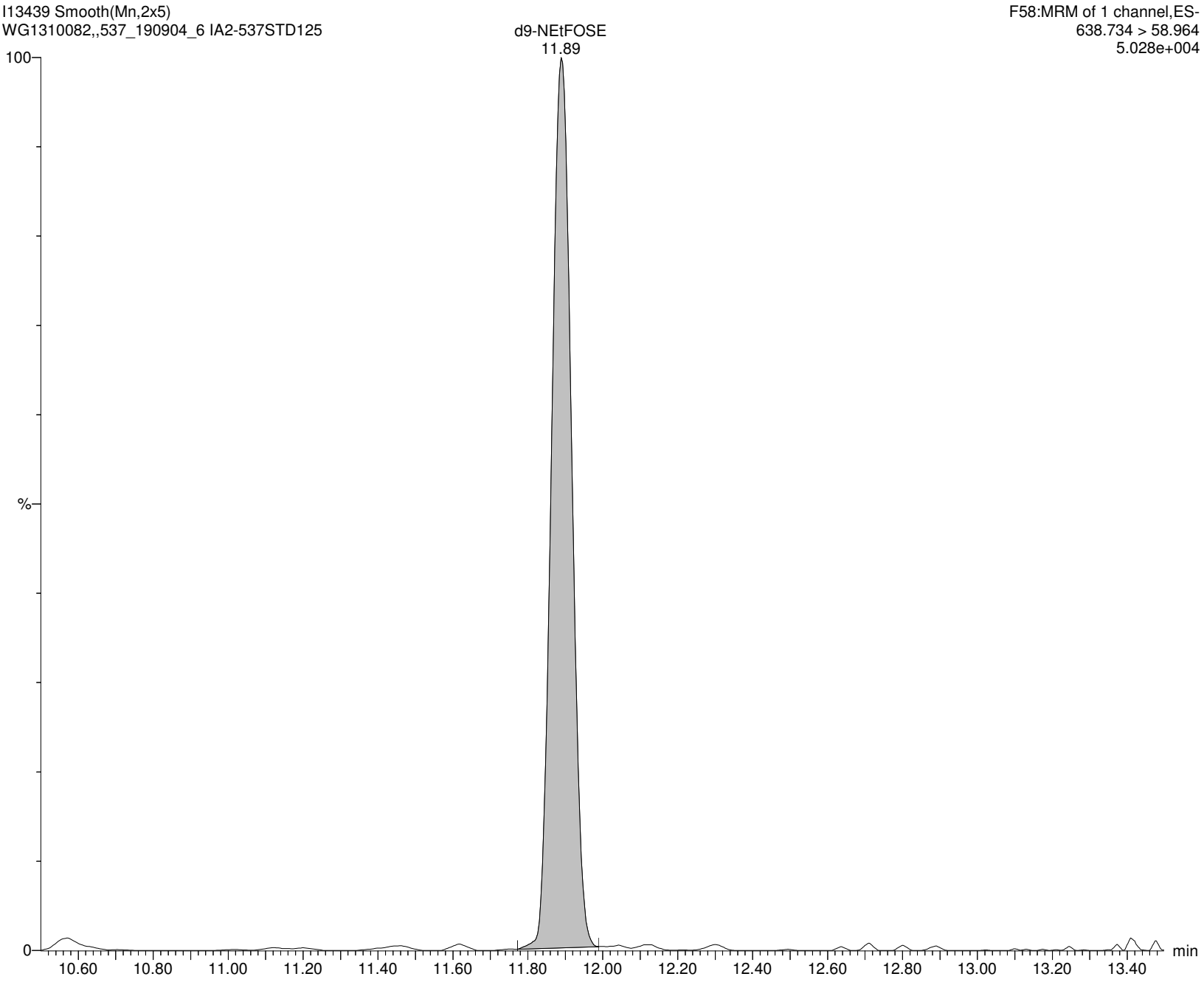
d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD150
Name: I13440
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	626725		152.770		na	101.8
2	M3PFBA	INT STD	2.19	215.926 > 172.122	44321		9.565		na	95.7
3	MPFBA	INT STD	2.19	216.926 > 172.137	49132		10.186		na	101.9
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	1014589		152.143		na	101.4
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	69048		10.093		na	100.9
6	PFBS	375-73-5	5.74	298.926 > 79.923	183933		136.241	1.89	NO	102.6
7	M3PFBS	INT STD	5.74	301.989 > 80.254	9189		10.380		na	103.8
8	4:2FTS	757124-72-4	6.91	326.926 > 306.957	86895		157.479	2.21	NO	112.3
9	M2-4:2FTS	INT STD	6.91	329.117 > 309.079	9331		16.234		na	162.3
10	PFHxA	307-24-4	6.99	312.989 > 269.028	1081576		153.479	18.51	NO	102.3
11	M5PFHxA	INT STD	6.99	317.989 > 273.045	76552		10.205		na	102.1
12	PFPeS	2706-91-4	7.30	348.926 > 80.251	121259		138.608	1.78	NO	98.3
13	PFHpA	375-85-9	8.25	362.926 > 319.014	1427443		153.988	5.91	NO	102.7
14	M4PFHpA	INT STD	8.25	366.926 > 321.979	102764		10.285		na	102.8
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	18596	M5	25.883	2.38	NO	101.5
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	73279		111.834	1.16	NO	100.8
17	PFHxS	355-46-4		398.926 > 80.295	91875		137.717		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	5231		10.237		na	102.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	1380425		153.321	10.18	NO	102.2
21	PFOA	335-67-1		412.989 > 368.9	1380425		153.321		na	
22	M8PFOA	INT STD	9.19	420.989 > 375.979	98053		10.226		na	102.3
23	M2PFOA	INT STD	9.19	415.032 > 369.968	97991		9.270		na	92.7
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	66169		145.112	10.43	NO	101.8
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	8491		15.115		na	151.2
26	PFHpS	375-92-8	9.28	448.926 > 80.257	65509		151.638	0.85	YES	106.4
27	PFNA	375-95-1	9.94	462.989 > 418.931	1196780		151.249	4.46	NO	100.8
28	M9PFNA	INT STD	9.94	472.053 > 426.947	96586		10.238		na	102.4
29	br-PFOS	1763-23-1	9.80	498.989 > 80.294	28882	M5	30.417	4.33	NO	101.4
30	L-PFOS	1763-23-1	9.99	498.989 > 80.294	73591		114.296	1.52	YES	104.4
31	PFOS	1763-23-1		498.989 > 80.294	102473		144.713		na	
32	M4PFOS	INT STD	9.99	503.032 > 80.306	6325		9.056		na	90.6
33	M8PFOS	INT STD	9.99	507.053 > 80.294	6561		10.109		na	101.1
34	PFDA	335-76-2	10.57	513.053 > 468.906	1090370		154.634	6.85	NO	103.1
35	M2PFDA	INT STD	10.57	515.053 > 469.934	77816		8.814		na	88.1
36	M6PFDA	INT STD	10.57	519.053 > 473.931	82199		10.221		na	102.2
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	47139		ND		na	
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	4959		15.048		na	150.5
39	PFNS	68259-12-1	10.60	548.989 > 80.249	90356		148.060	1.24	NO	102.8

all concentration units in (ng/mL)

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Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

ID: IA2-537STD150
Name: I13440
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.096 > 418.987	9724		10.617		na	106.2
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	146965		162.157	2.74	NO	108.1
43	NMeFOSAA	2355-31-9		570.053 > 418.917	146965		162.157		na	
44	PFUnA	2058-94-8	11.11	562.989 > 518.903	1013266		151.620	8.25	NO	101.1
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	69883		9.795		na	97.9
46	PFDS	335-77-3	11.12	598.926 > 80.314	65178		149.422	0.99	NO	103.2
47	FOSA	754-91-6	11.01	497.989 > 78.245	333812		147.280	120.34	NO	98.2
48	M8FOSA	INT STD	11.01	506.053 > 78.286	21330		11.218		na	112.2
49	d5-NEtFOSAA	INT STD	11.24	589.117 > 418.929	9186		11.353		na	113.5
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND	0.00	NO	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	136569		157.490	2.64	NO	105.0
52	NEtFOSAA	2991-50-6		583.989 > 418.927	136569		157.490		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	1093507		154.839	14.29	NO	103.2
54	MPFDOA	INT STD	11.59	614.989 > 569.92	83381		10.417		na	104.2
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	780709		151.037	10.89	NO	100.7
56	PFTA	376-06-7	12.36	713.053 > 668.976	832832		158.787	9.10	NO	105.9
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	65494		10.301		na	103.0
58	M3HFPO-DA	INT STD	7.40	331.989 > 286.995	12097		287.953		na	144.0
59	HFPO-DA	13252-13-6	7.40	284.819 > 169.094	306093		3047.579	2.68	YES	101.6
60	ADONA	958445-44-8	8.43	376.926 > 251.005	1853079		143.757		na	101.3
61	PFHxDA		12.78	813.053 > 769.005	689196		150.297		na	100.2
62	PFODA		12.99	912.989 > 869.032	517898		154.059		na	102.7
63	M2PFHxDA		12.78	815.372 > 770.158	13525		9.993		na	99.9
64	PFDoS		11.99	698.649 > 79.853	69331		155.917	1.91	YES	103.9
65	10:2FTS		11.60	626.862 > 606.896	47687		ND		na	
66	9CL-PF3ONS		10.34	530.862 > 350.843	635029		147.281		na	105.4
67	11CL-PFOUdS		11.38	630.862 > 450.854	542069		149.130		na	105.5
68	NMeFOSA		11.62	511.804 > 168.906	126611		161.032	1.50	NO	107.4
69	d3-NMeFOSA		11.62	514.84 > 168.917	10579		10.668		na	106.7
70	NEtFOSA		11.92	525.84 > 168.92	142438		150.612	5.67	NO	100.4
71	d5-NEtFOSA		11.91	530.904 > 168.919	10793		11.128		na	111.3
72	NMeFOSE		11.62	615.862 > 58.9	153742		160.875		na	107.2
73	d7-NMeFOSE		11.61	622.84 > 58.964	4724		10.171		na	101.7
74	NEtFOSE		11.91	629.862 > 58.899	178591		147.011		na	98.0
75	d9-NEtFOSE		11.89	638.734 > 58.964	3077		11.332		na	113.3

all concentration units in (ng/mL)

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Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

Name: I13440
ID: IA2-537STD150
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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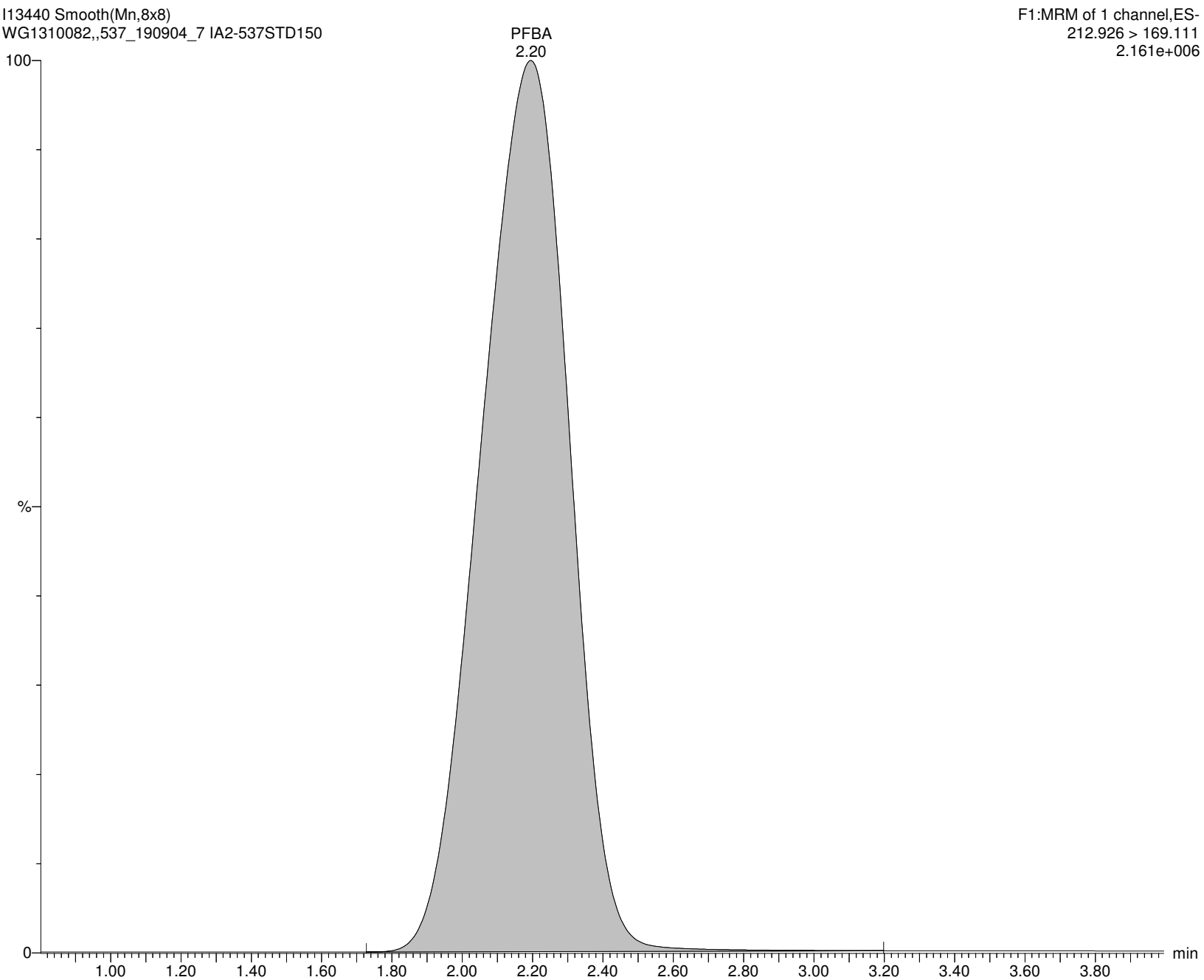

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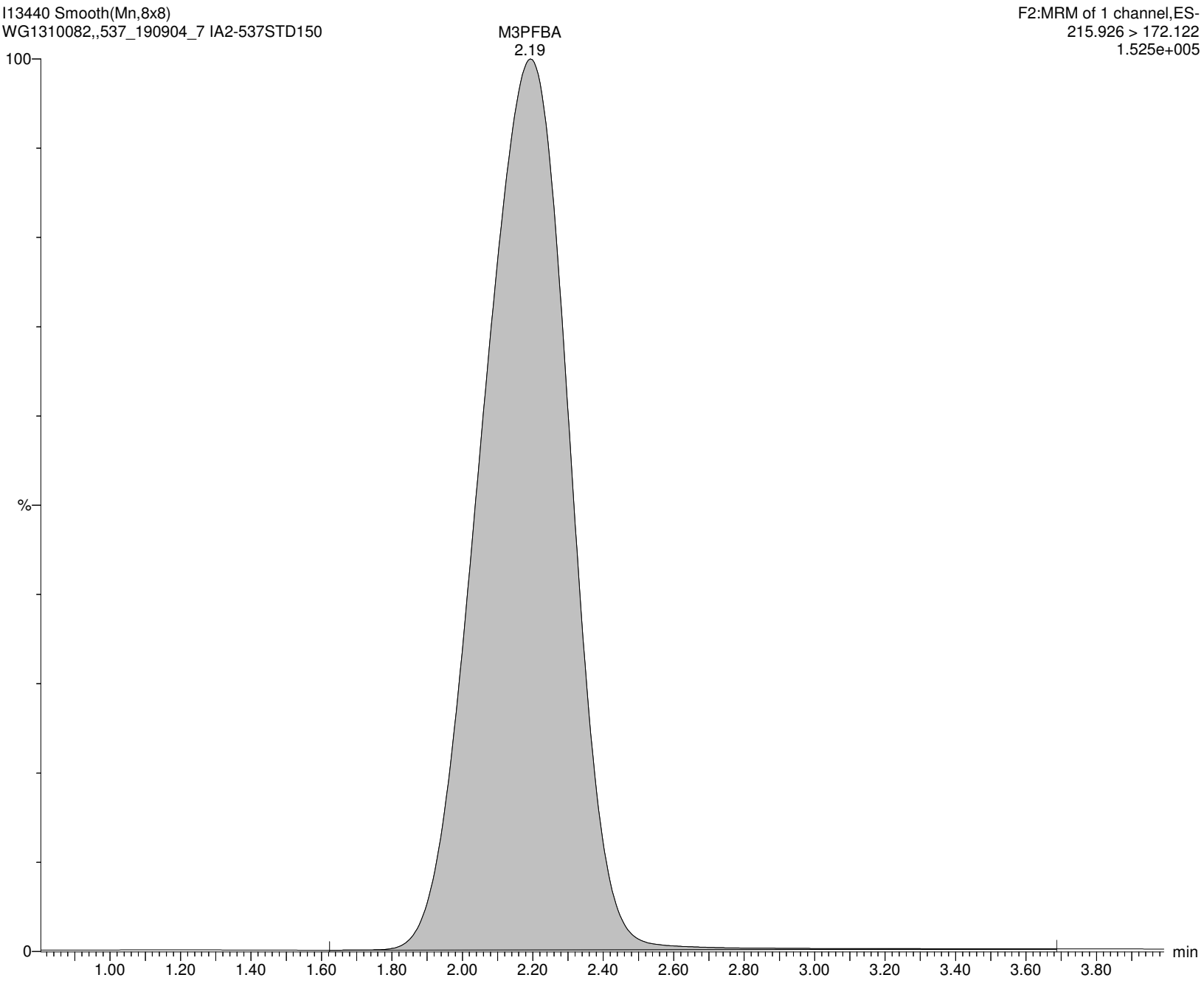

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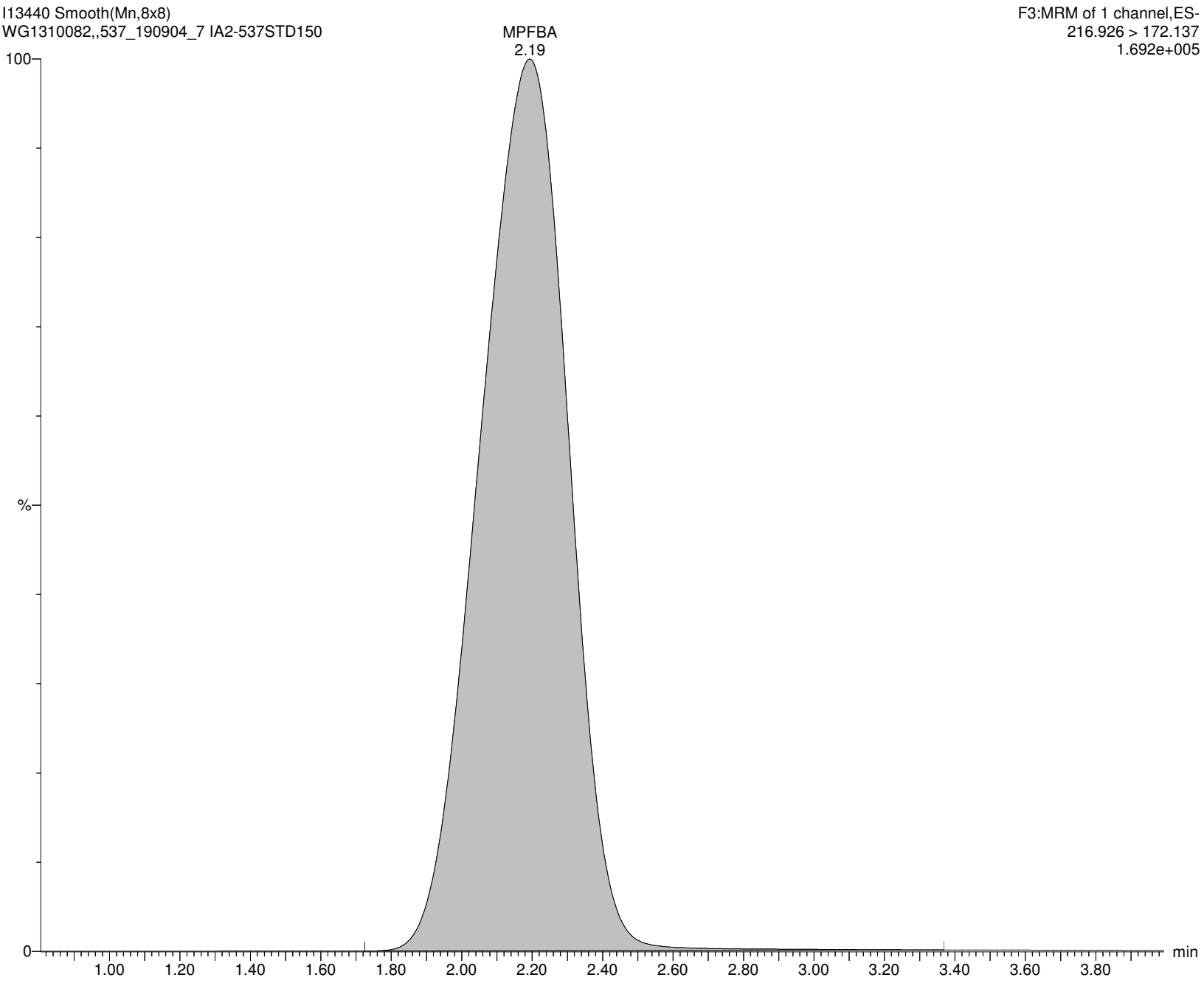

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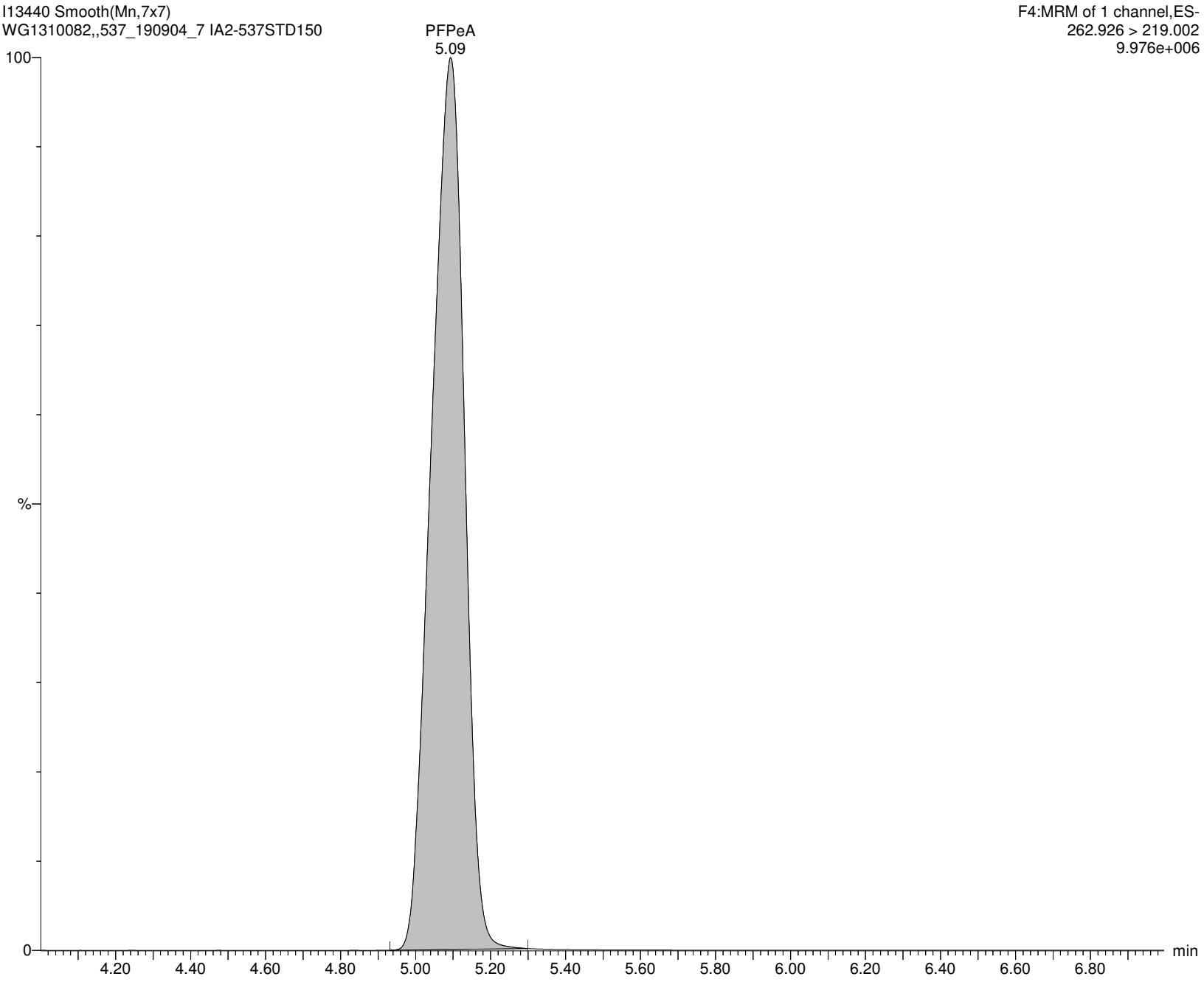

all concentration units in (ng/mL)

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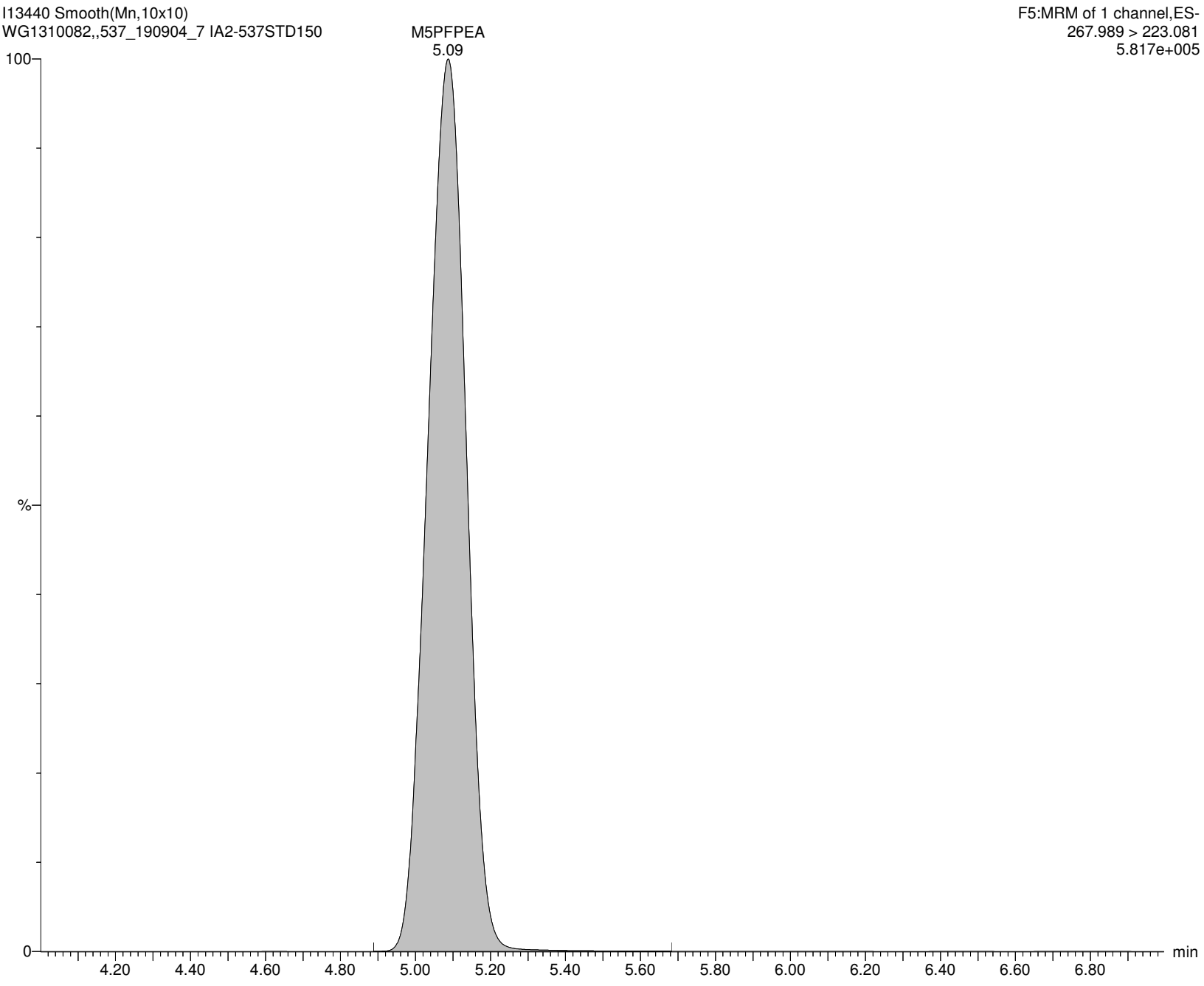

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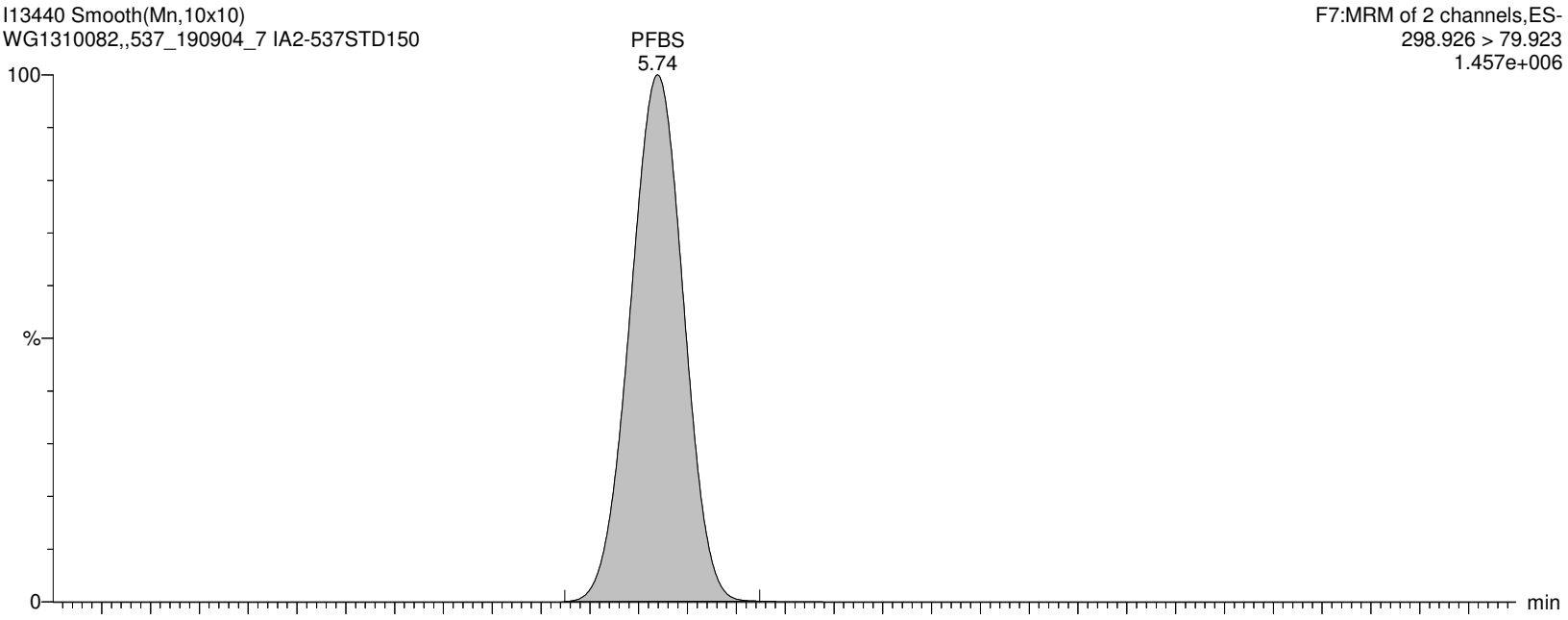
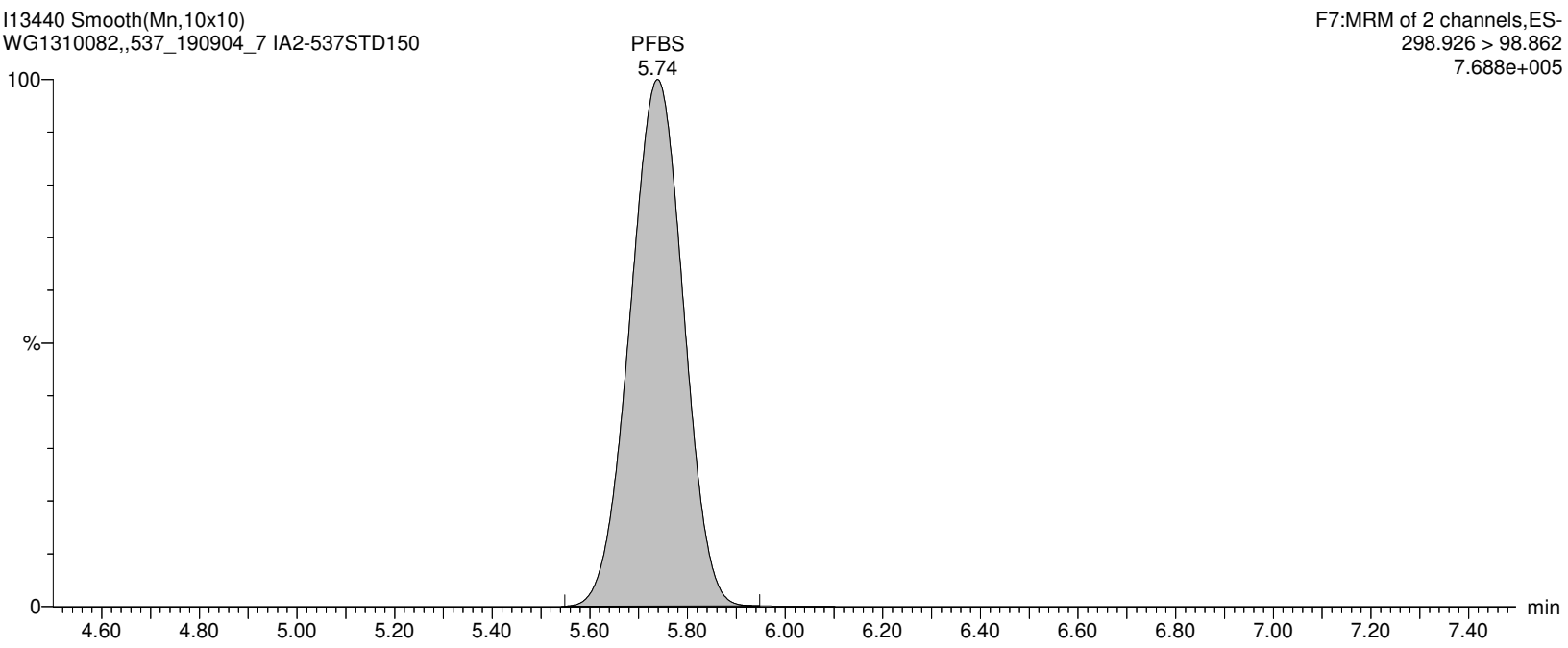
PFBS





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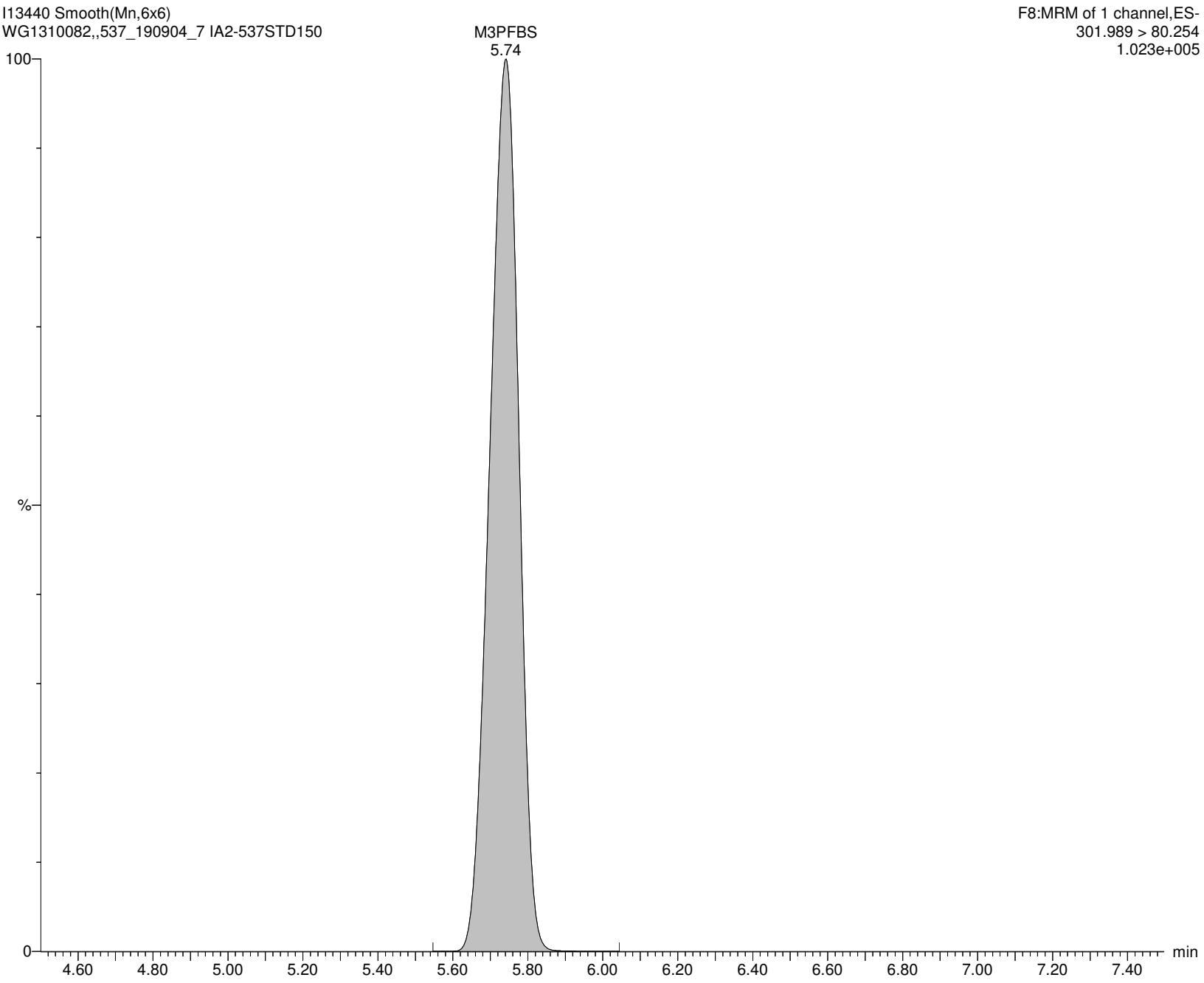
M3PFBS



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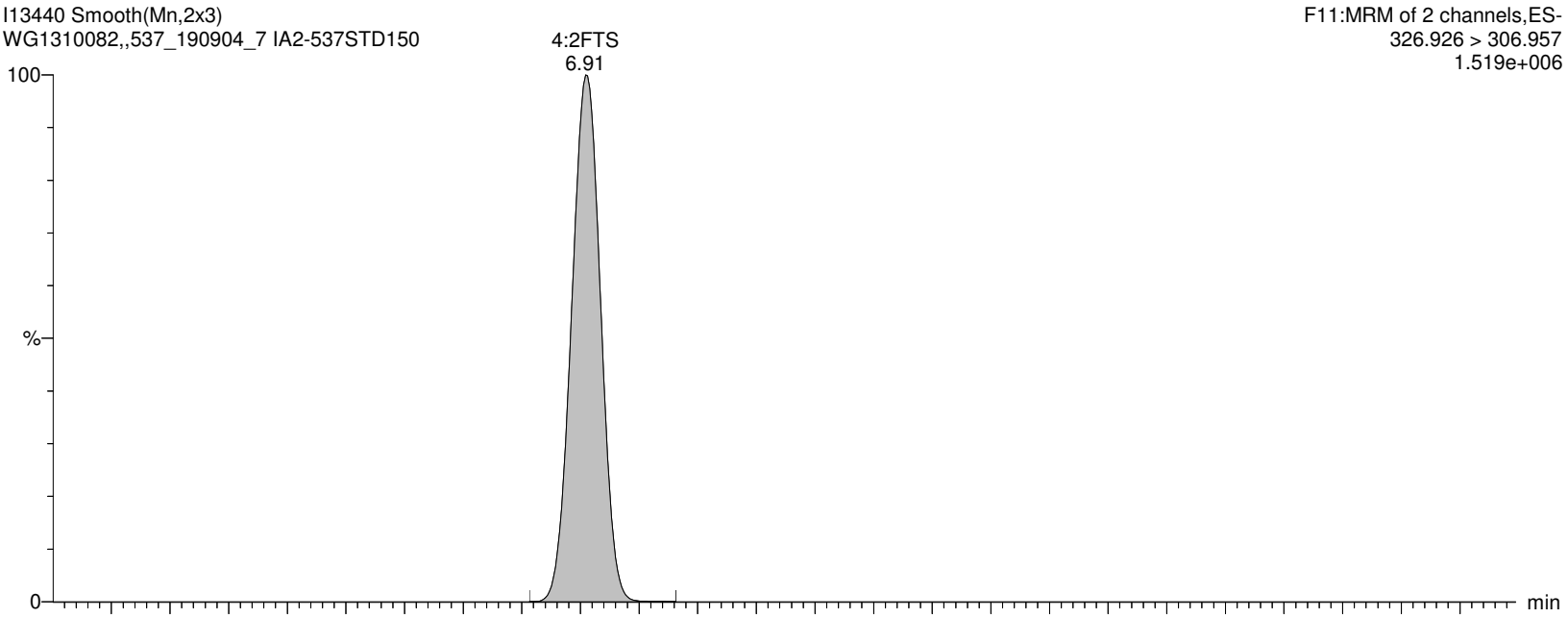
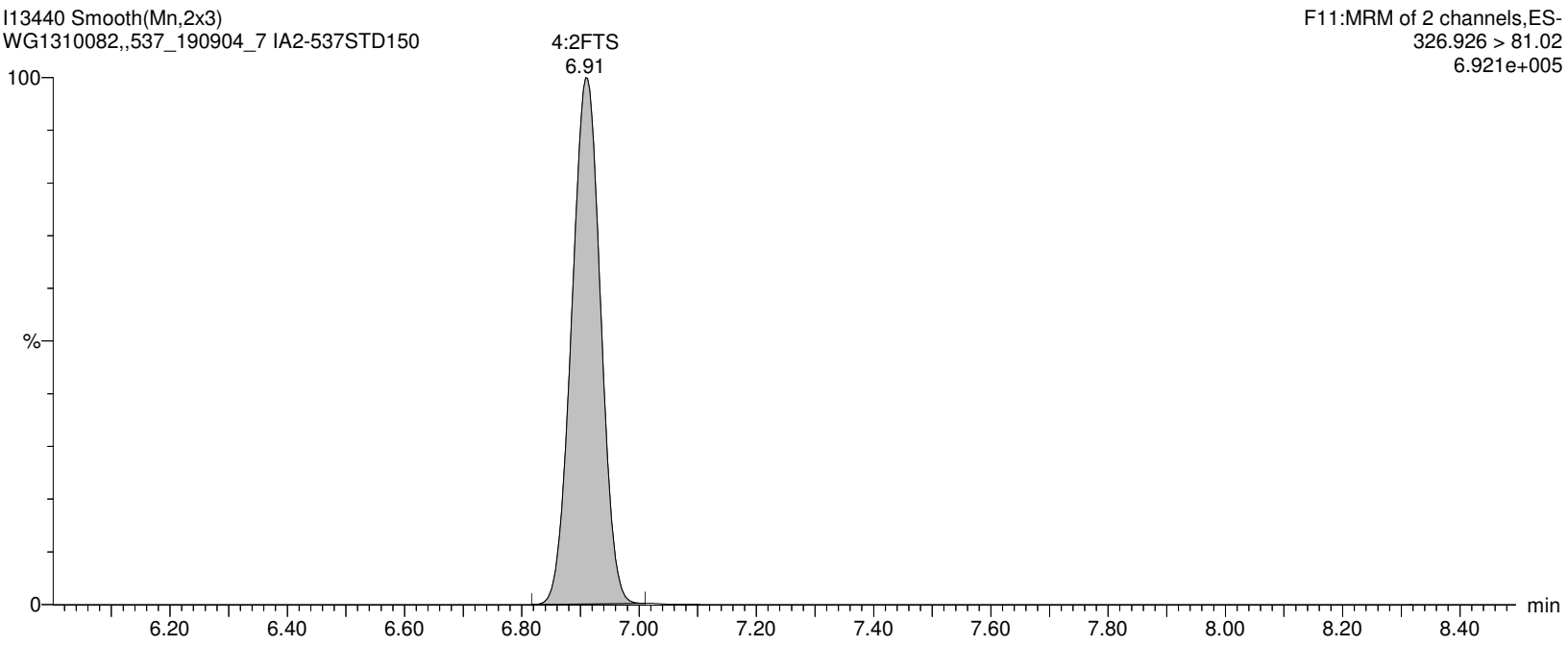
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

4:2FTS





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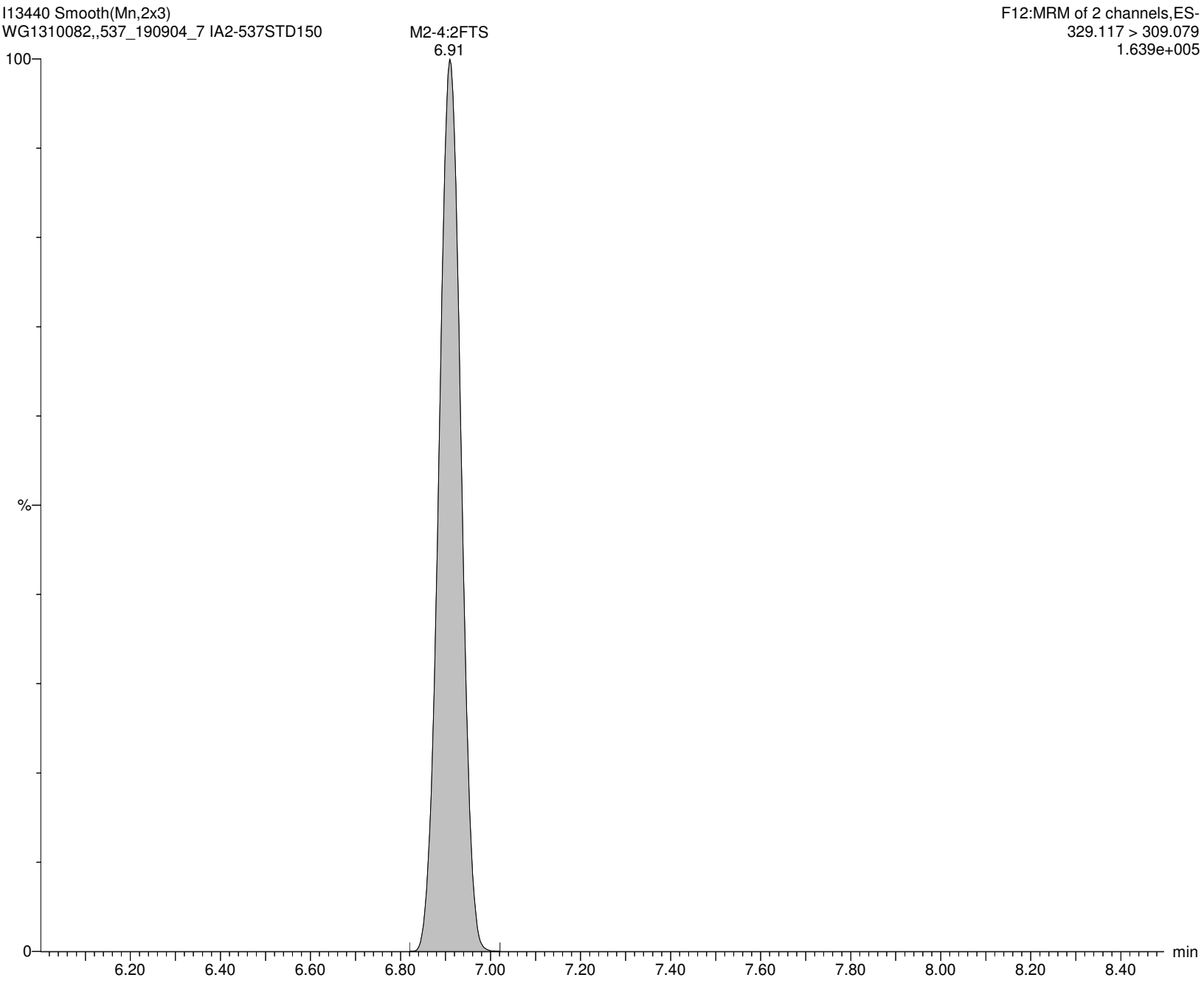

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

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ID: IA2-537STD150
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
User: LCMS02:JW
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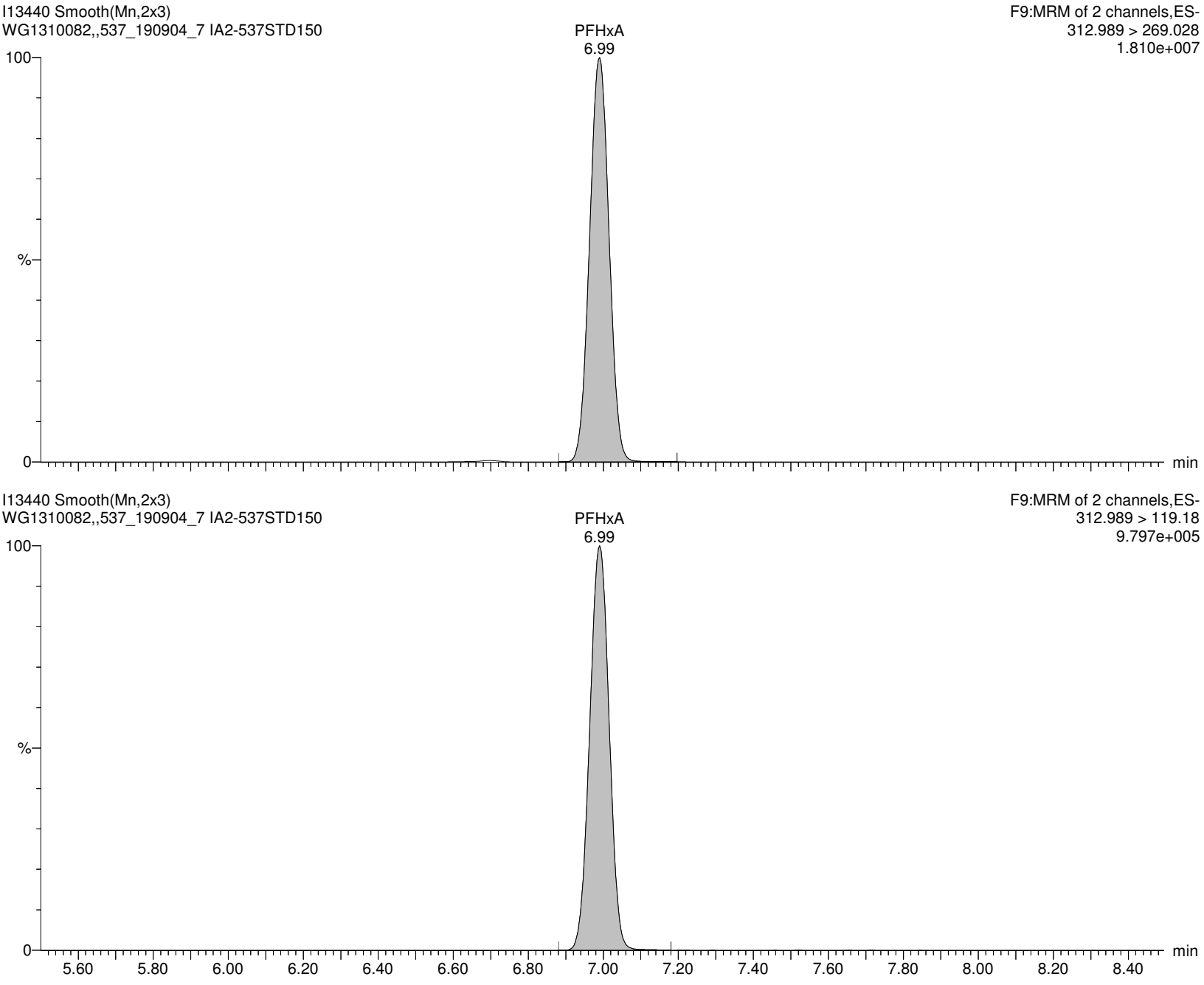

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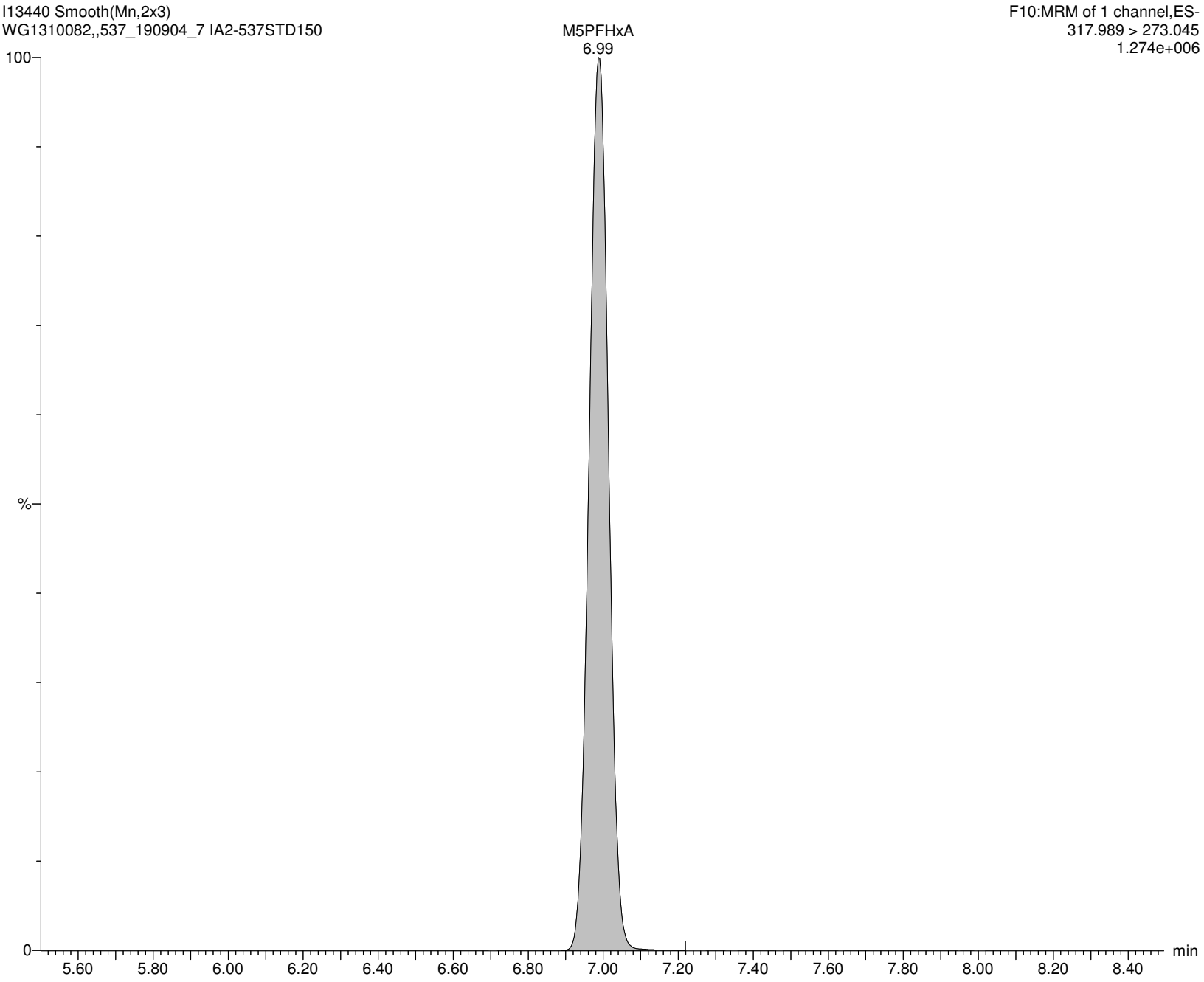

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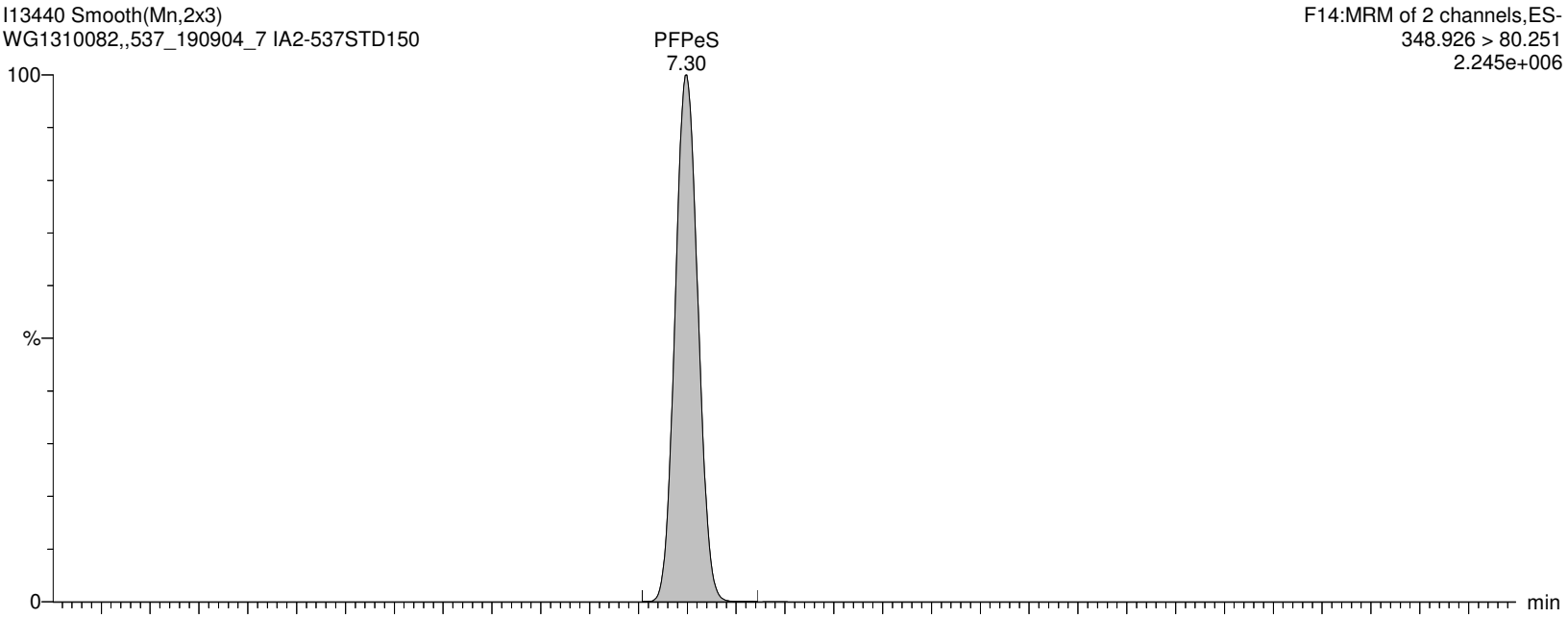

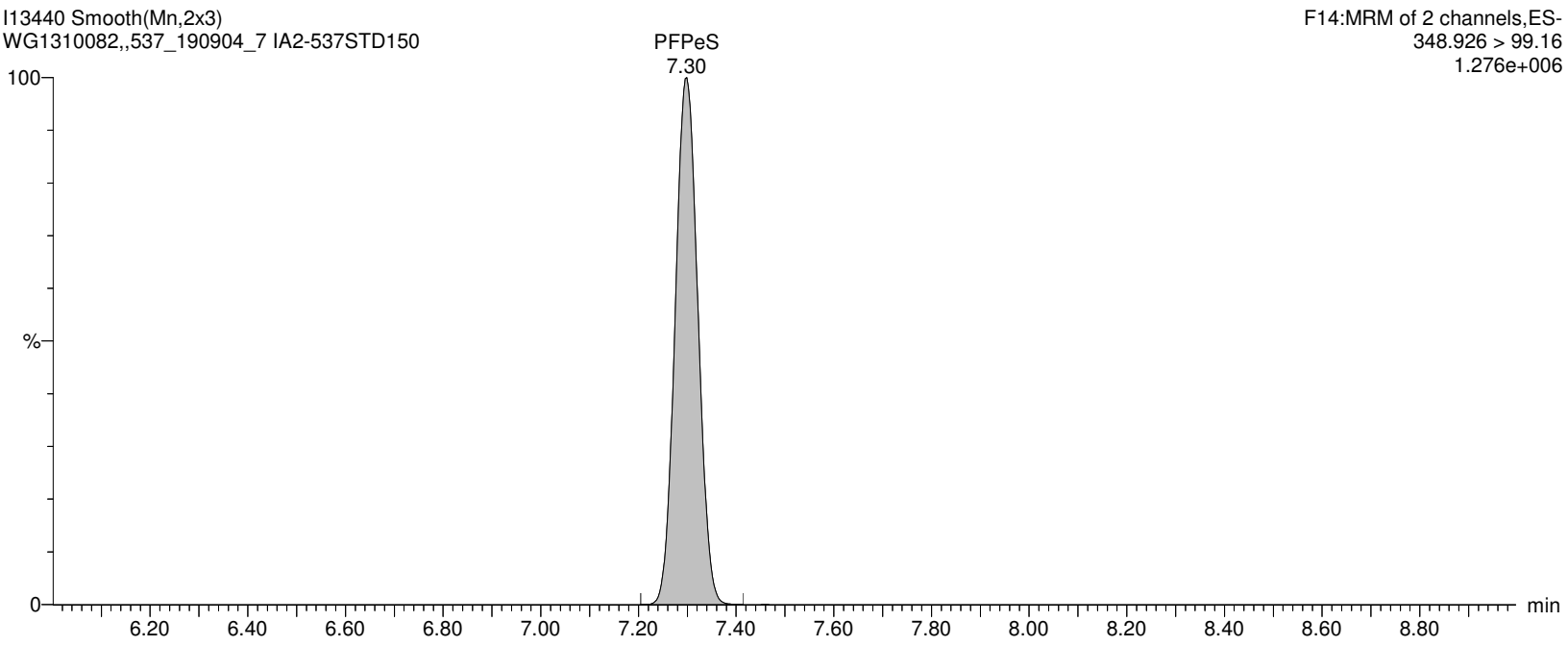

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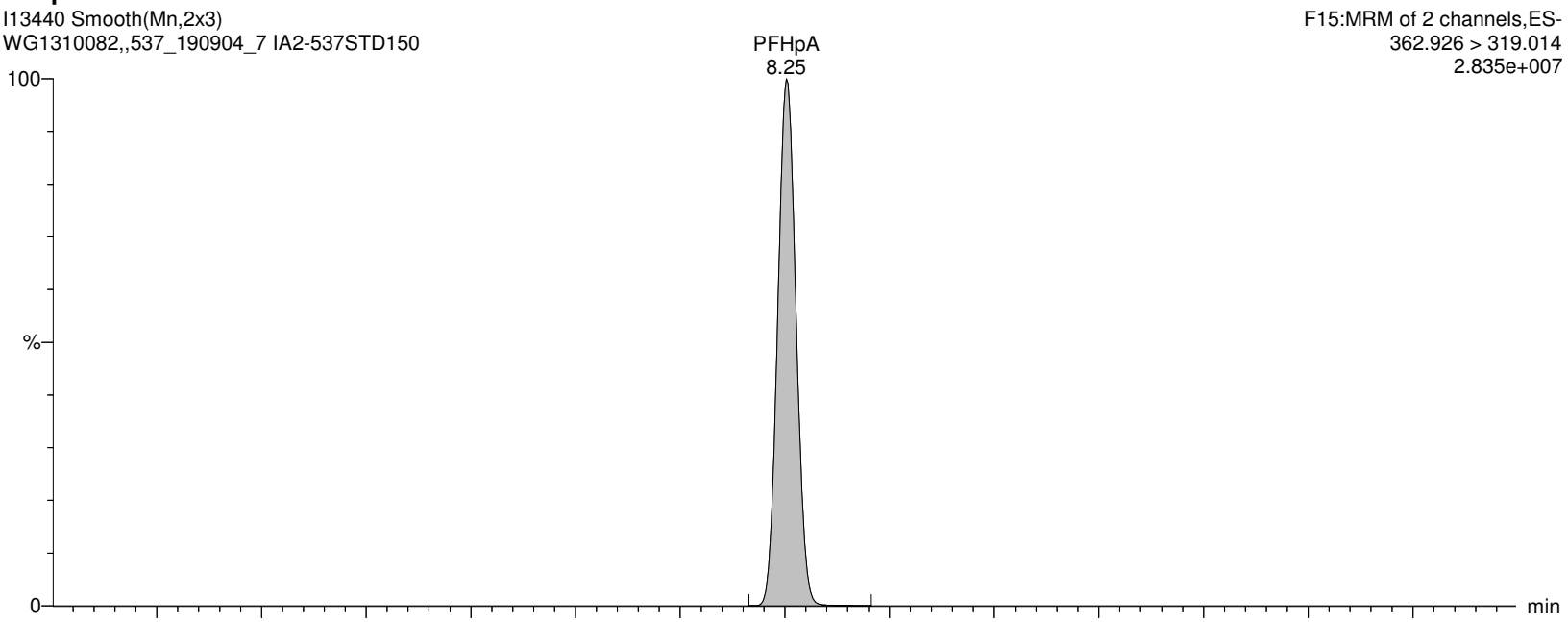

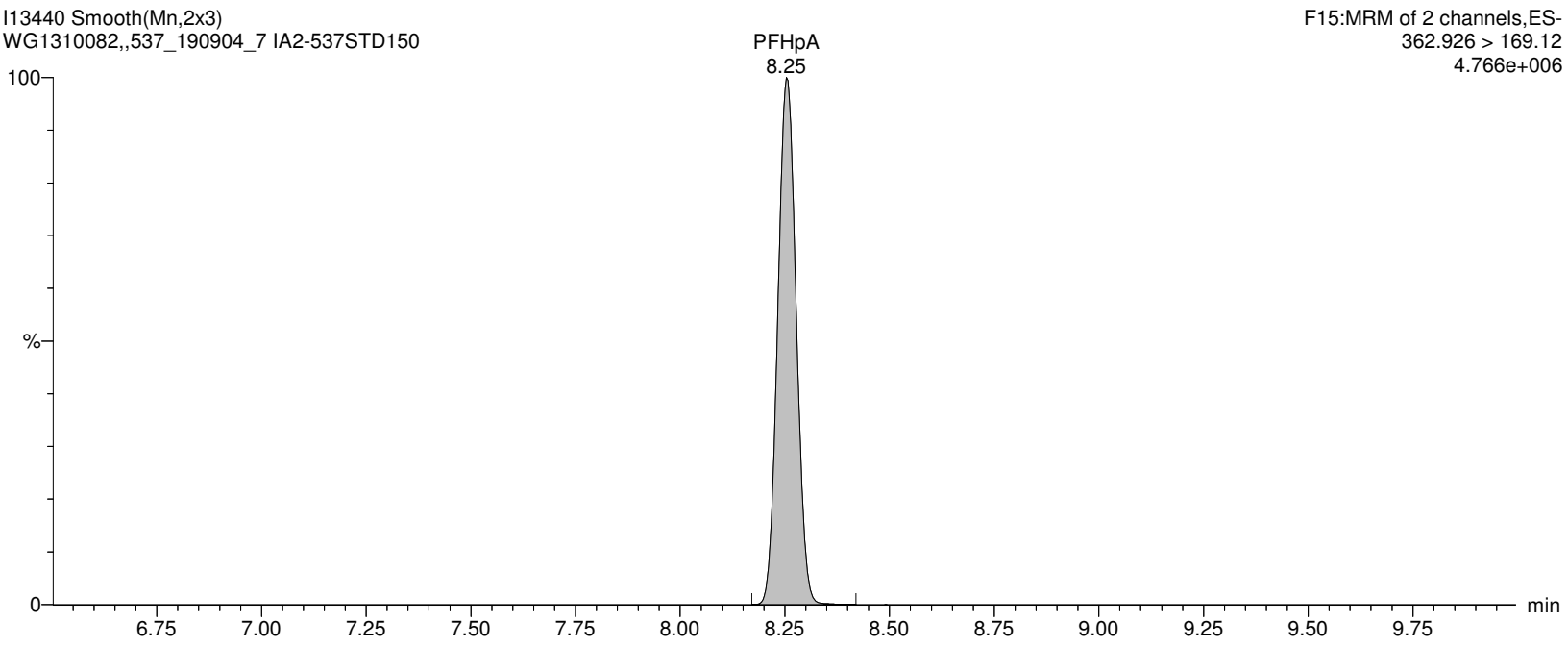

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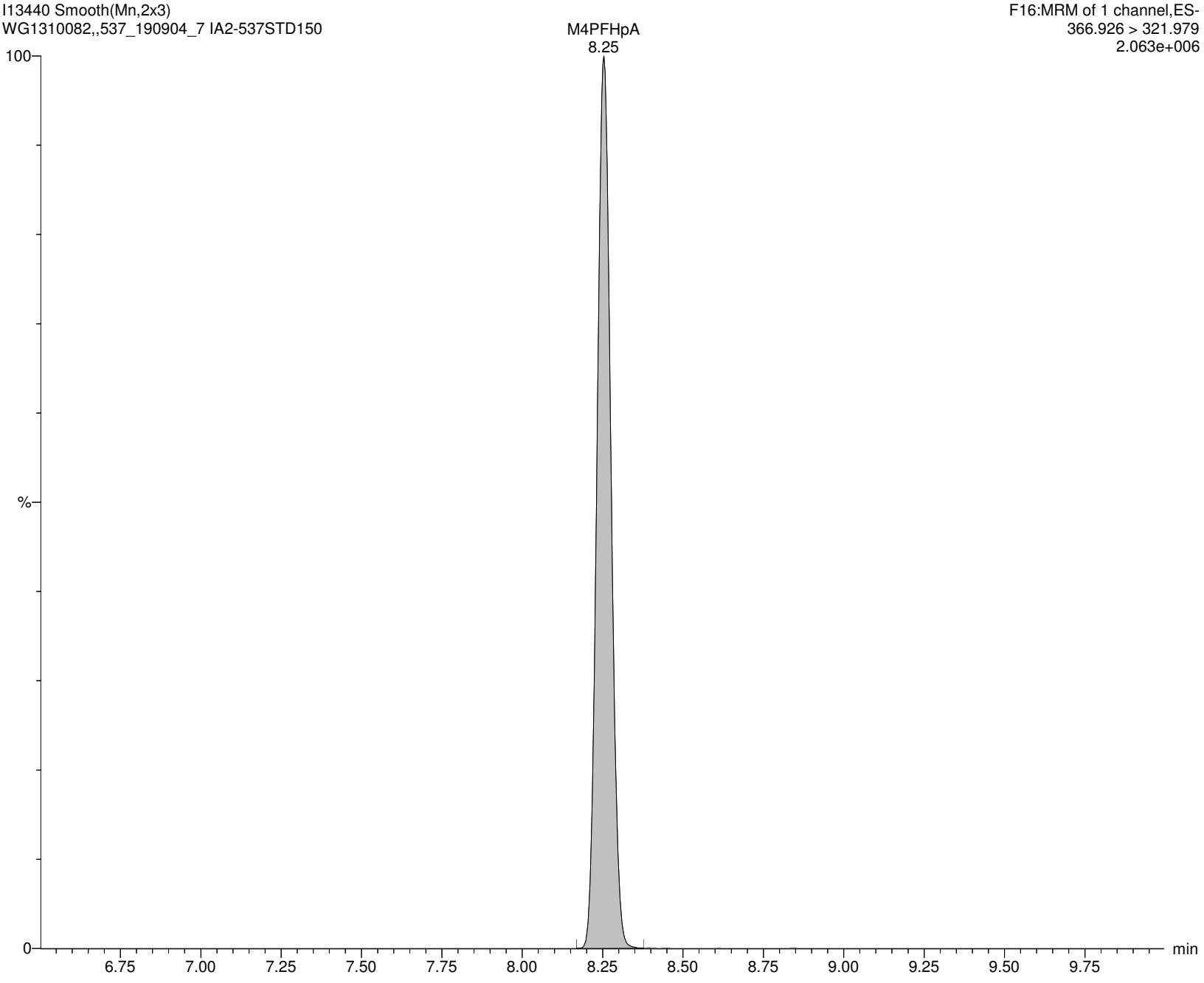

all concentration units in (ng/mL)

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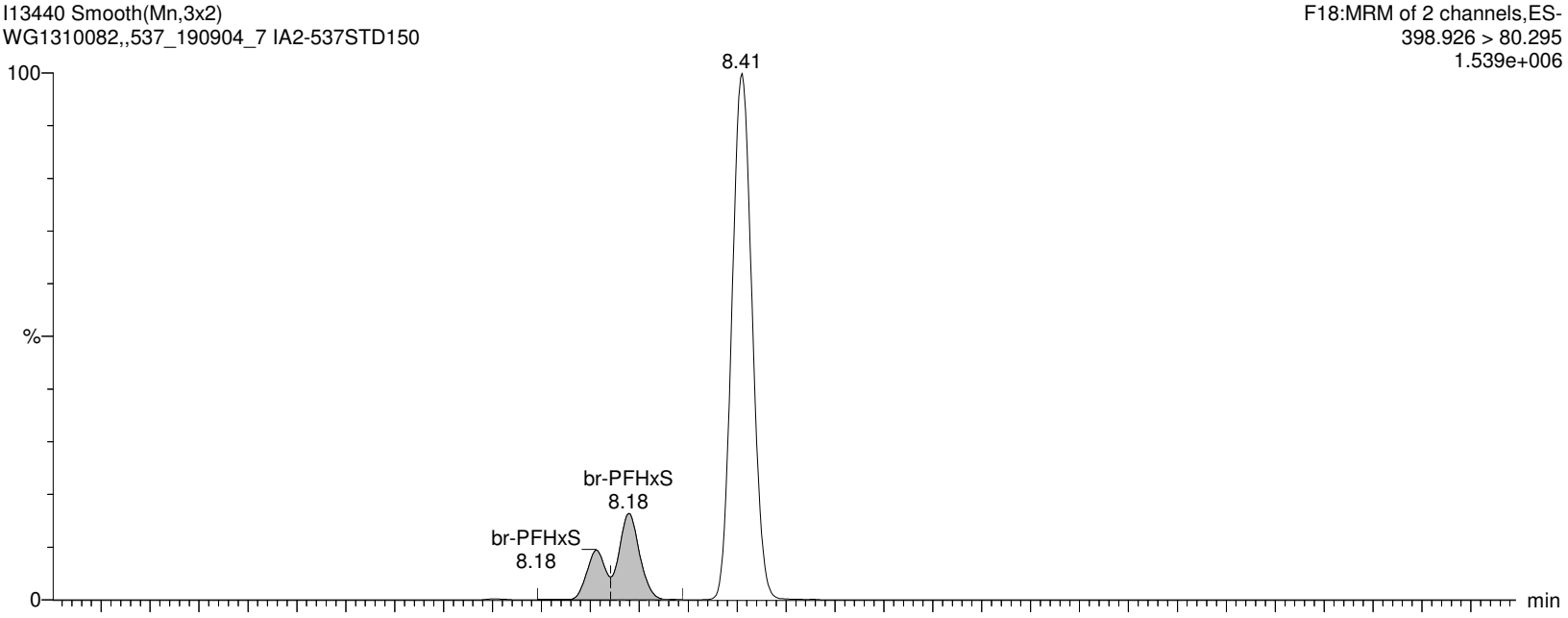

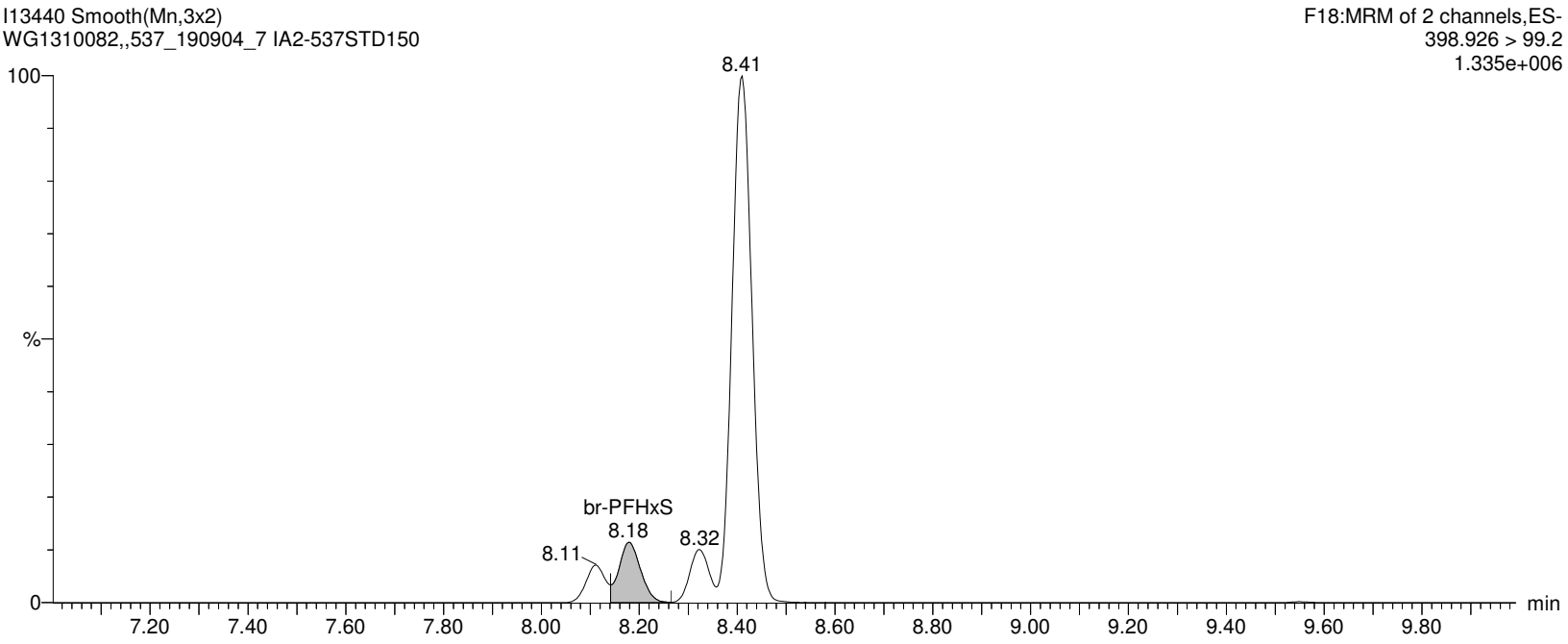

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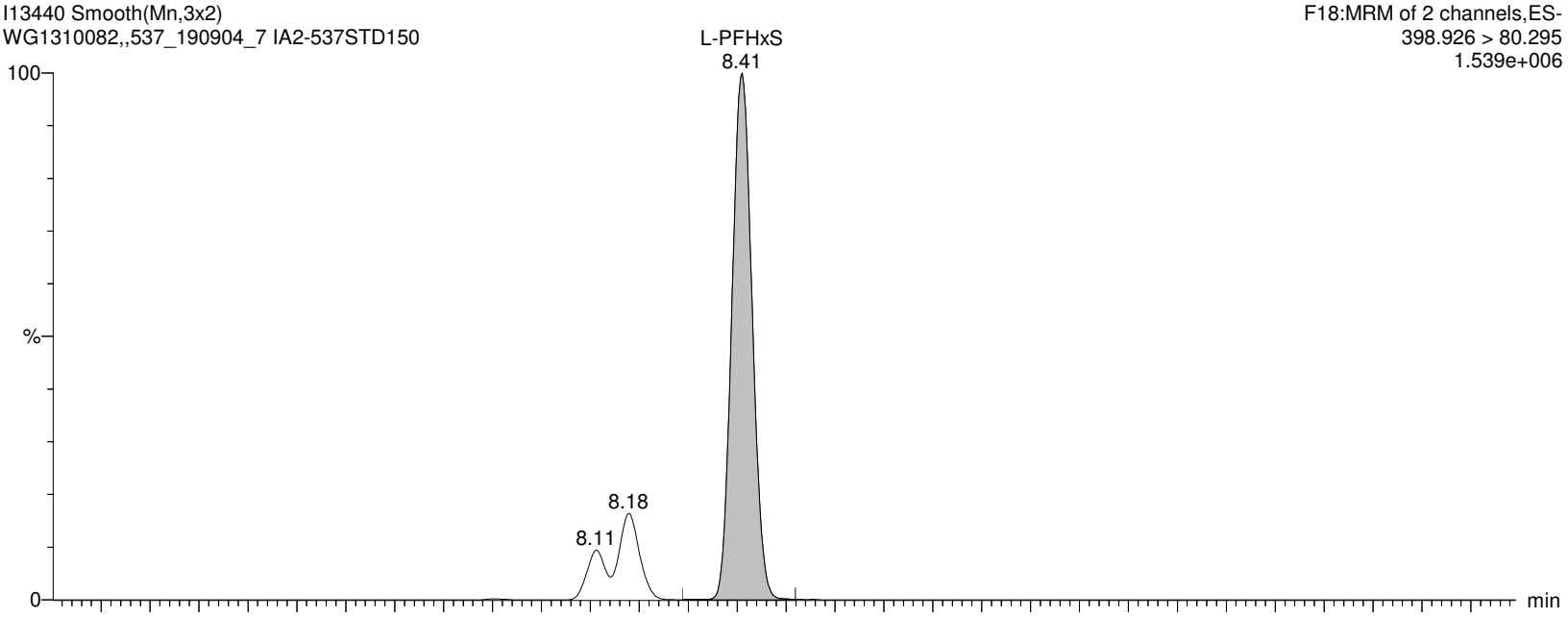

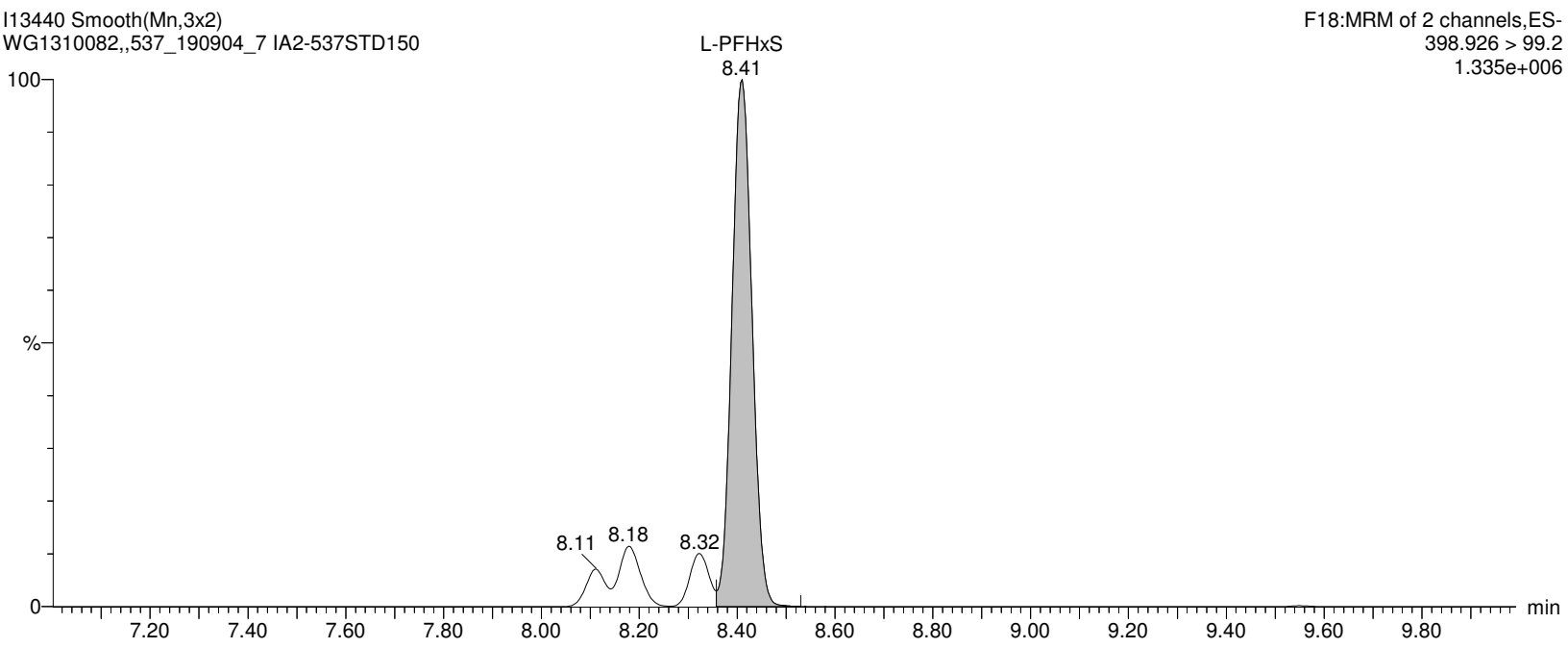

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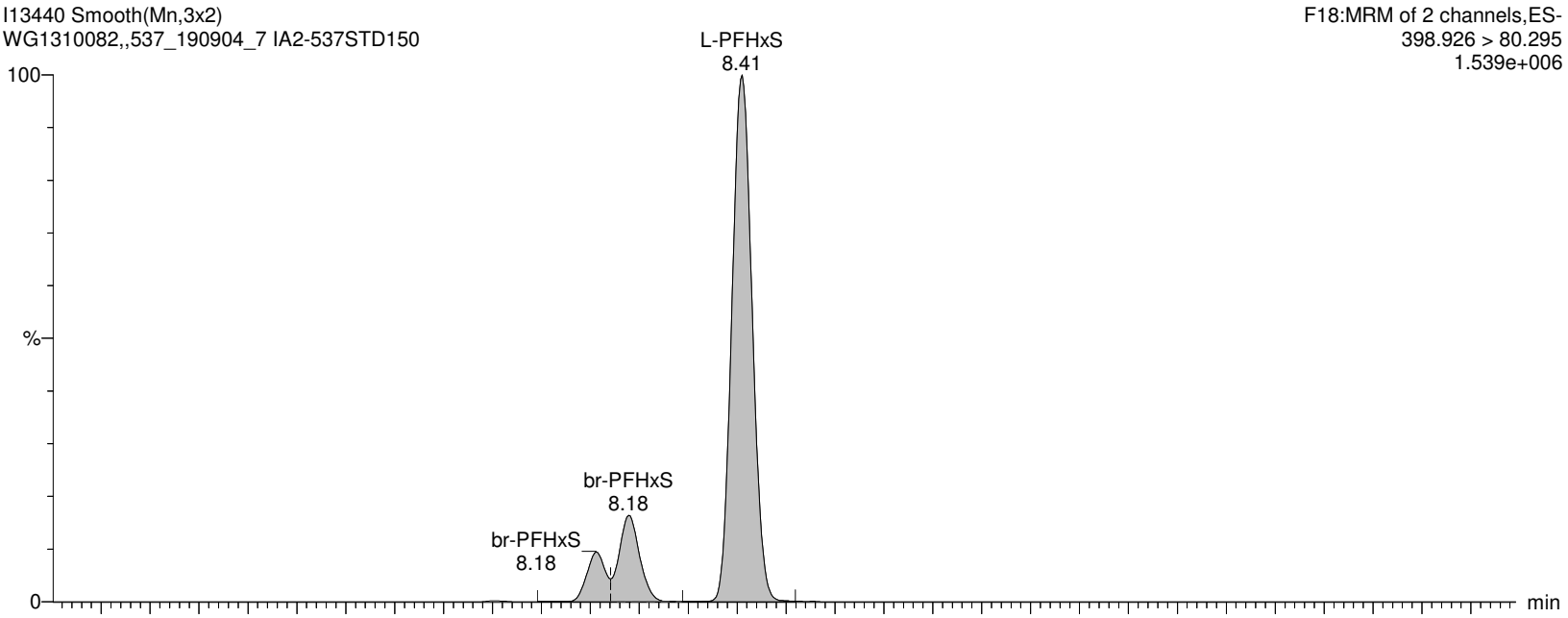

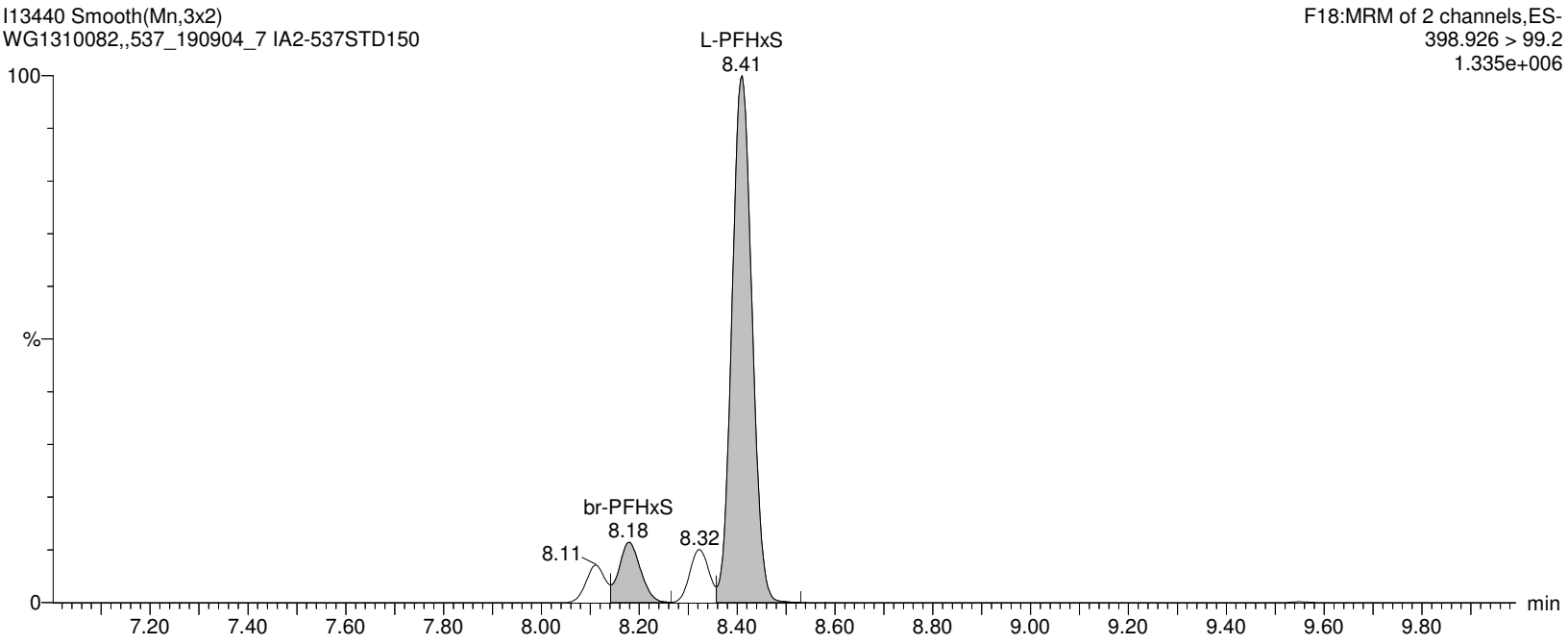

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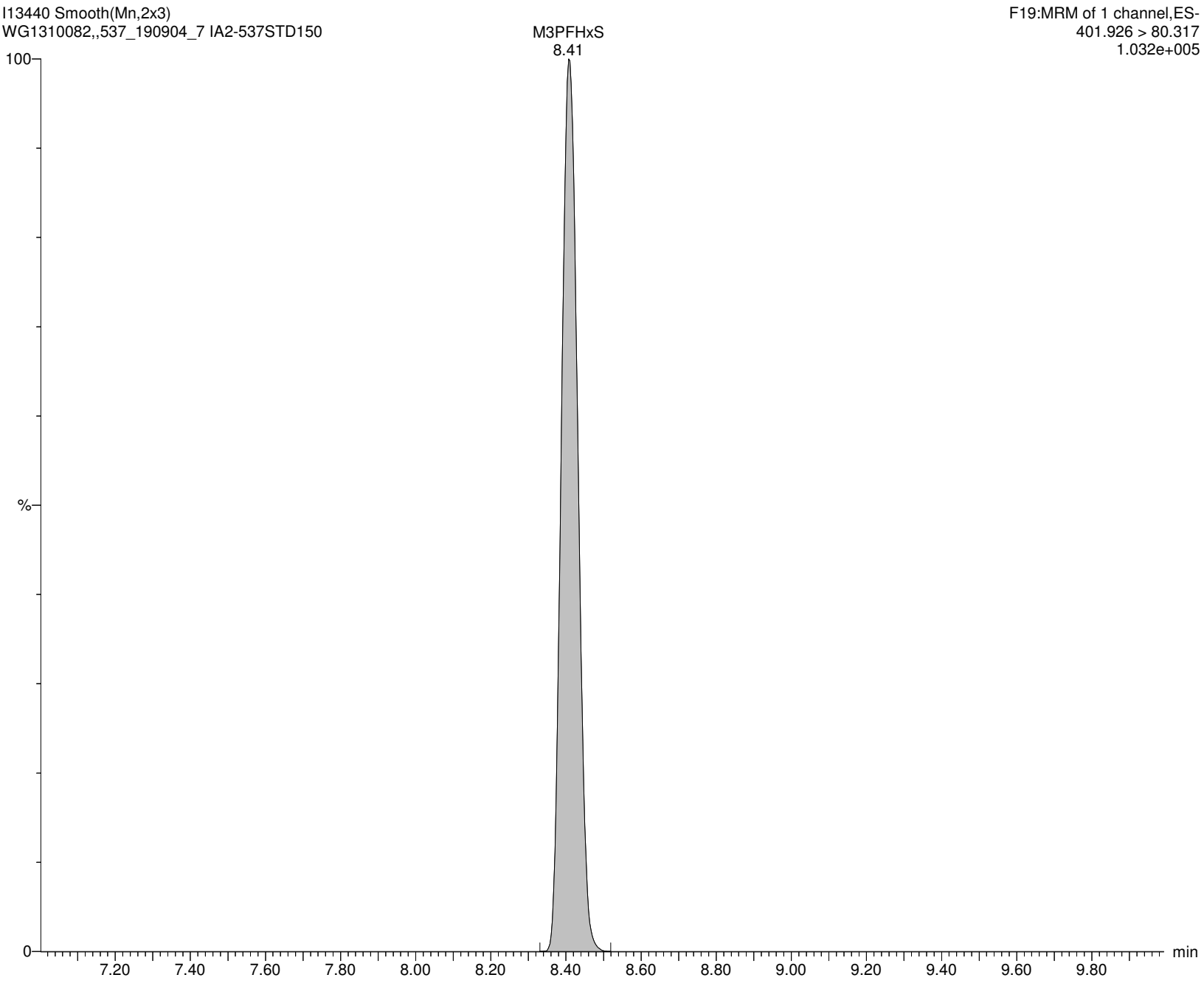

all concentration units in (ng/mL)

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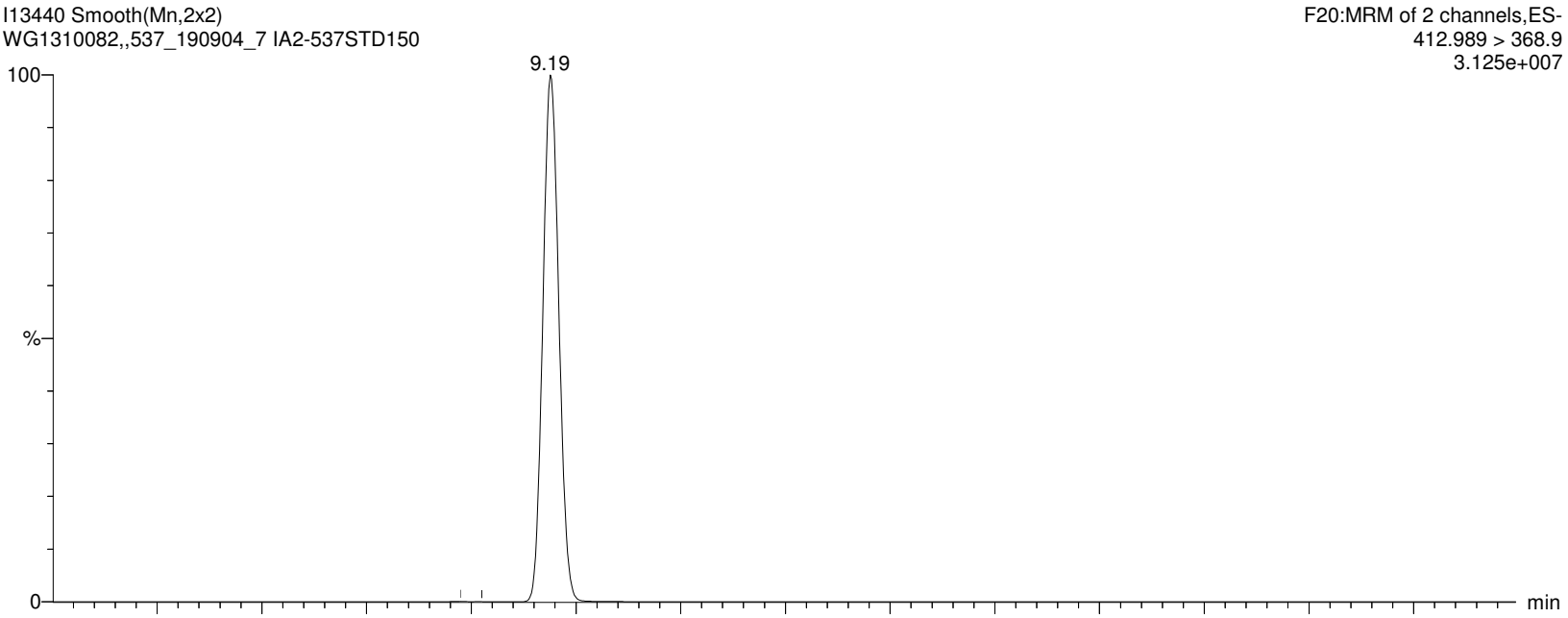

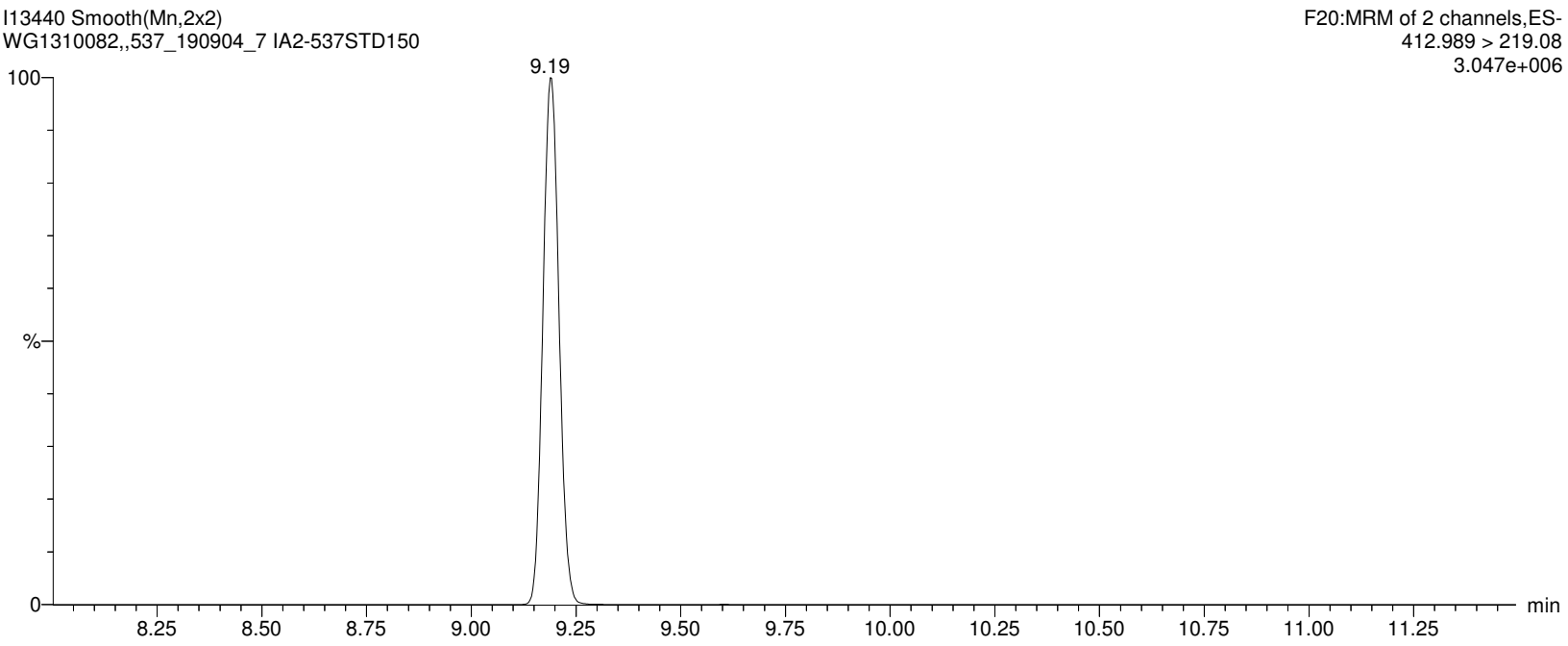

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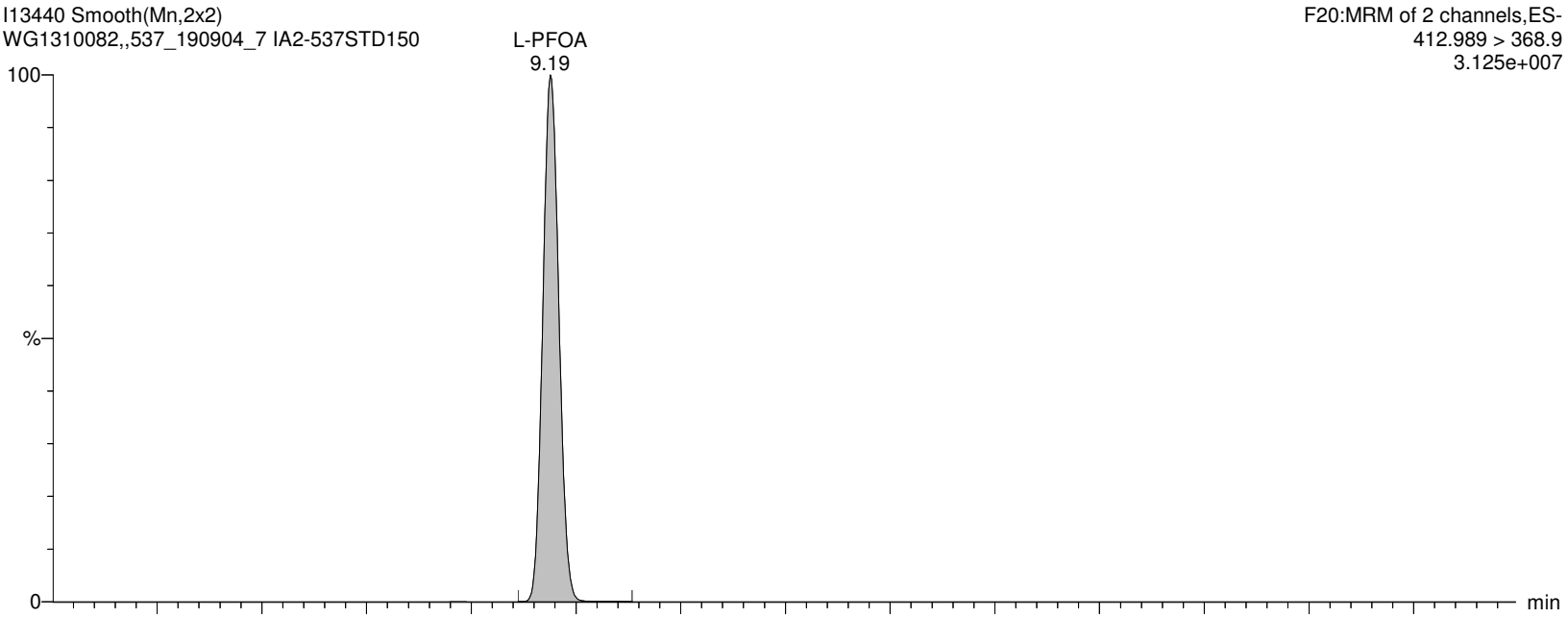

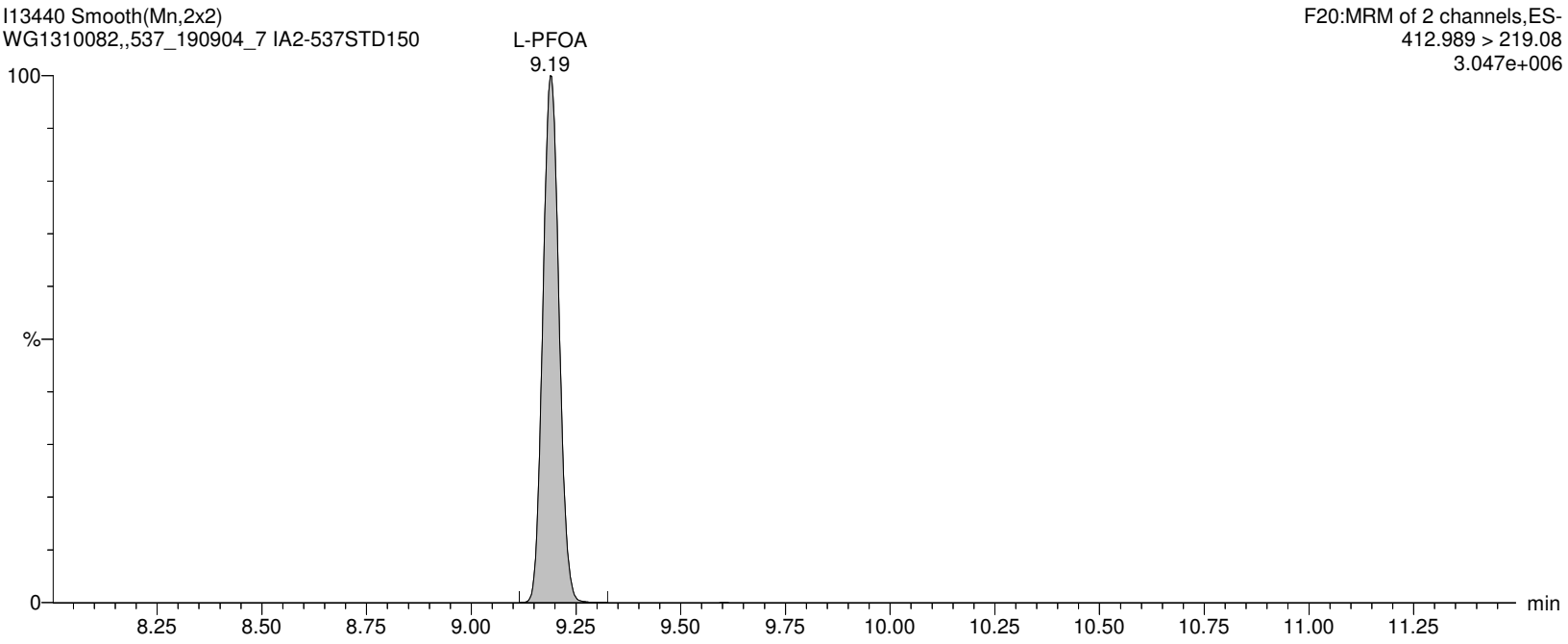

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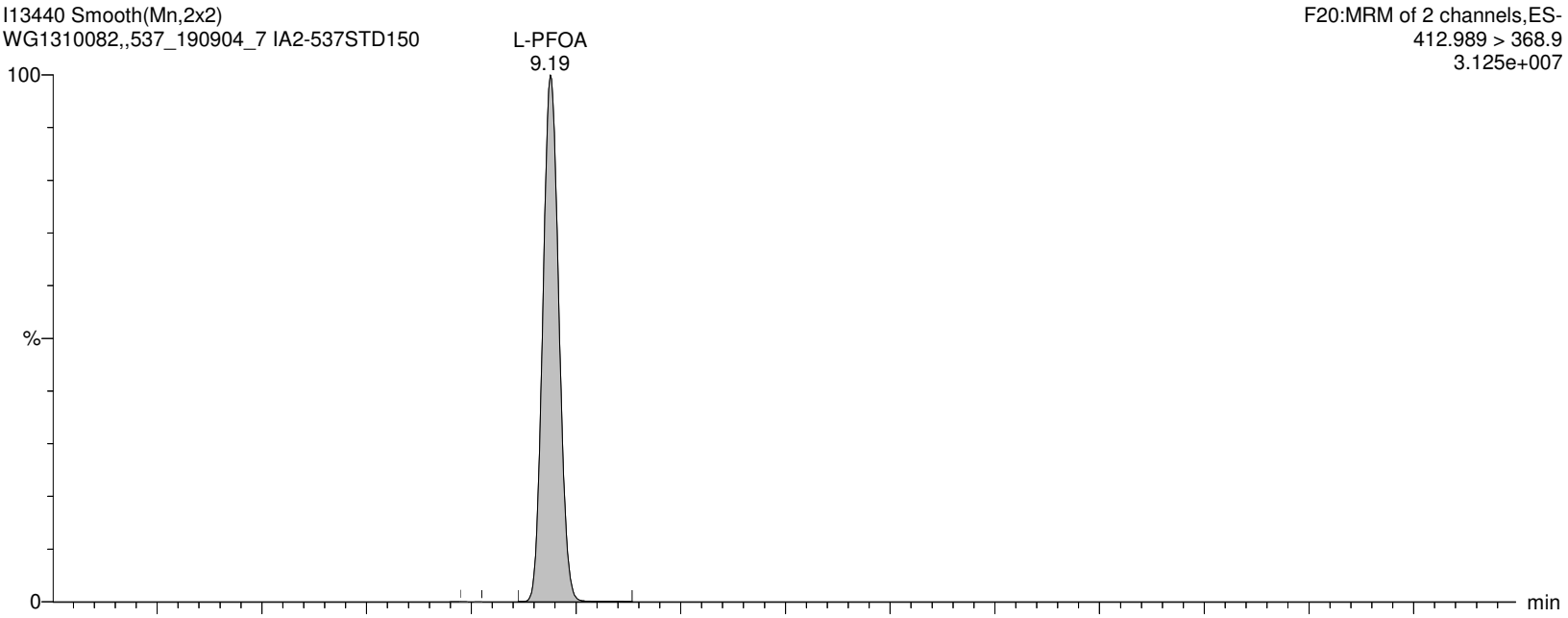

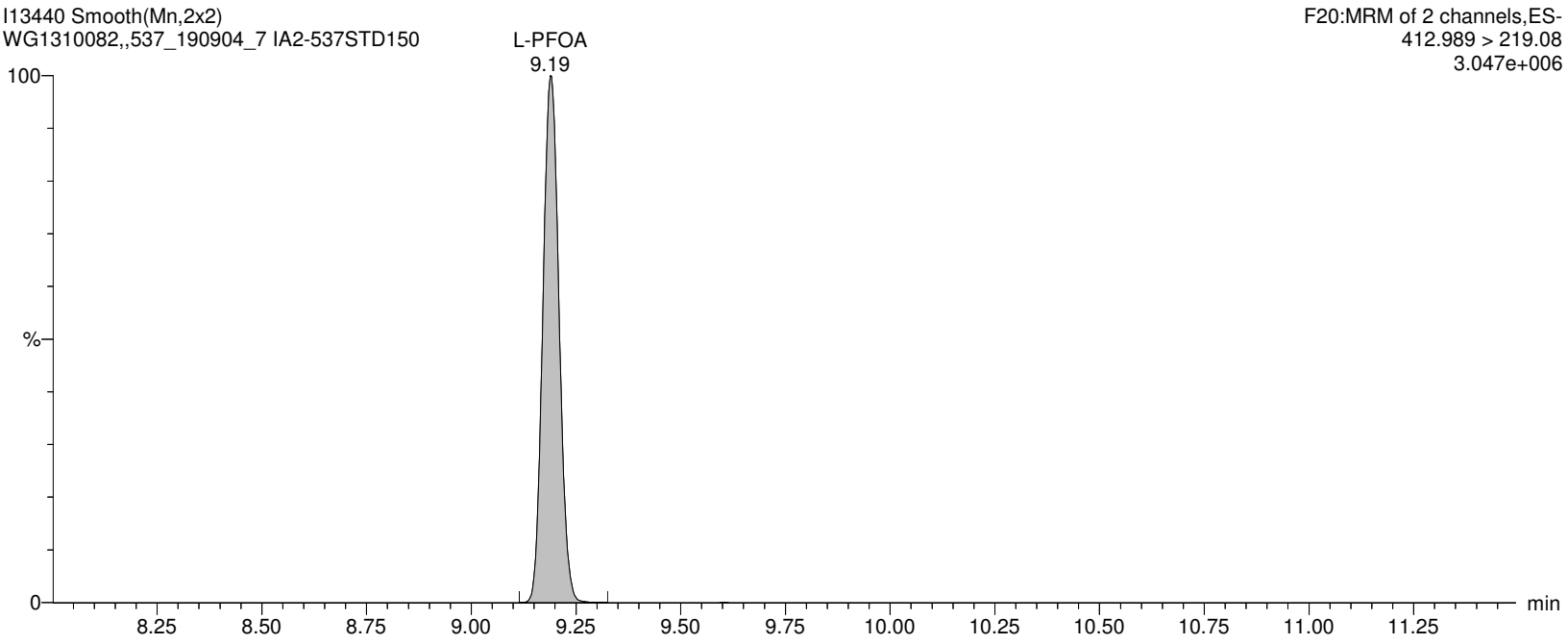

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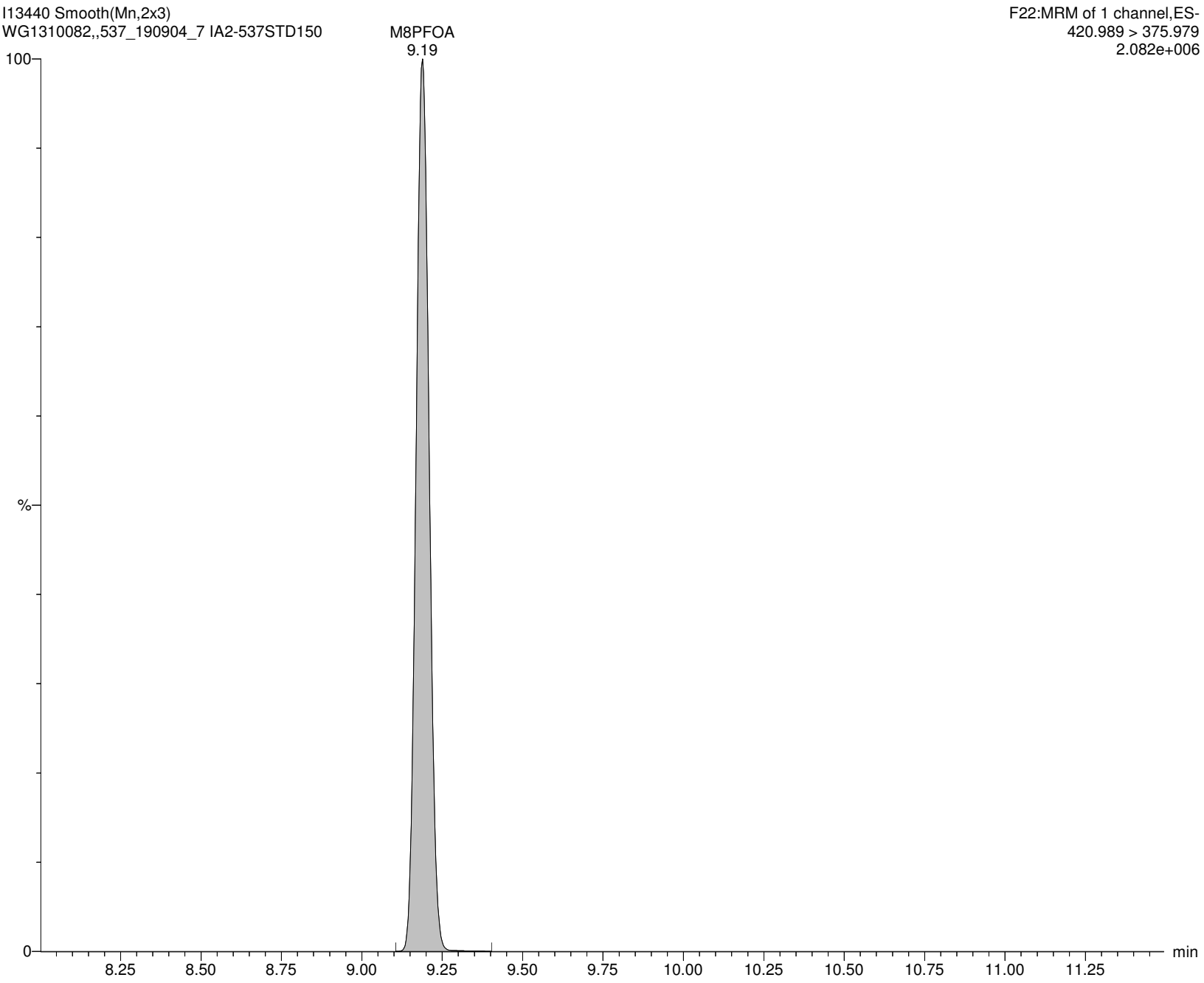

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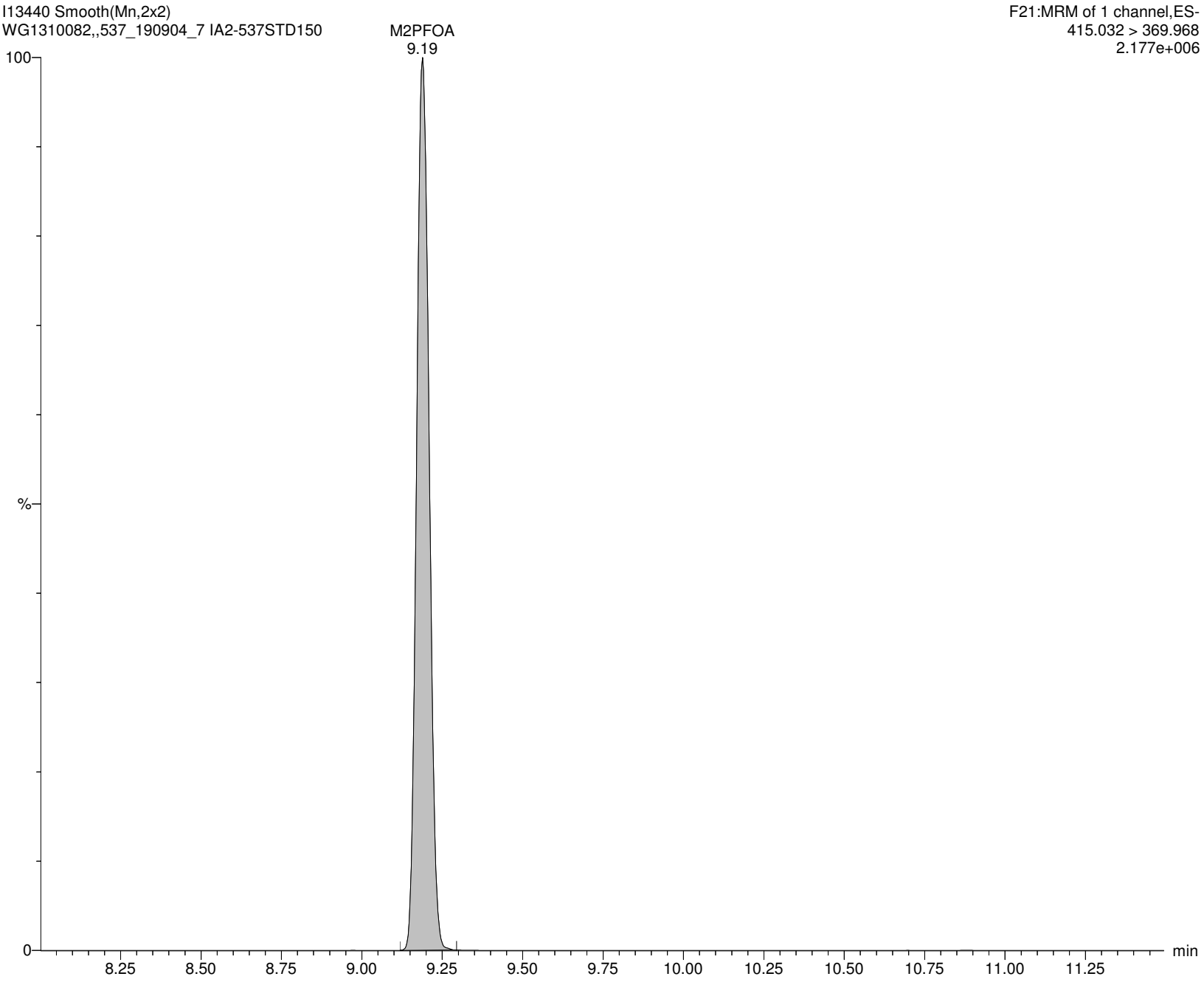

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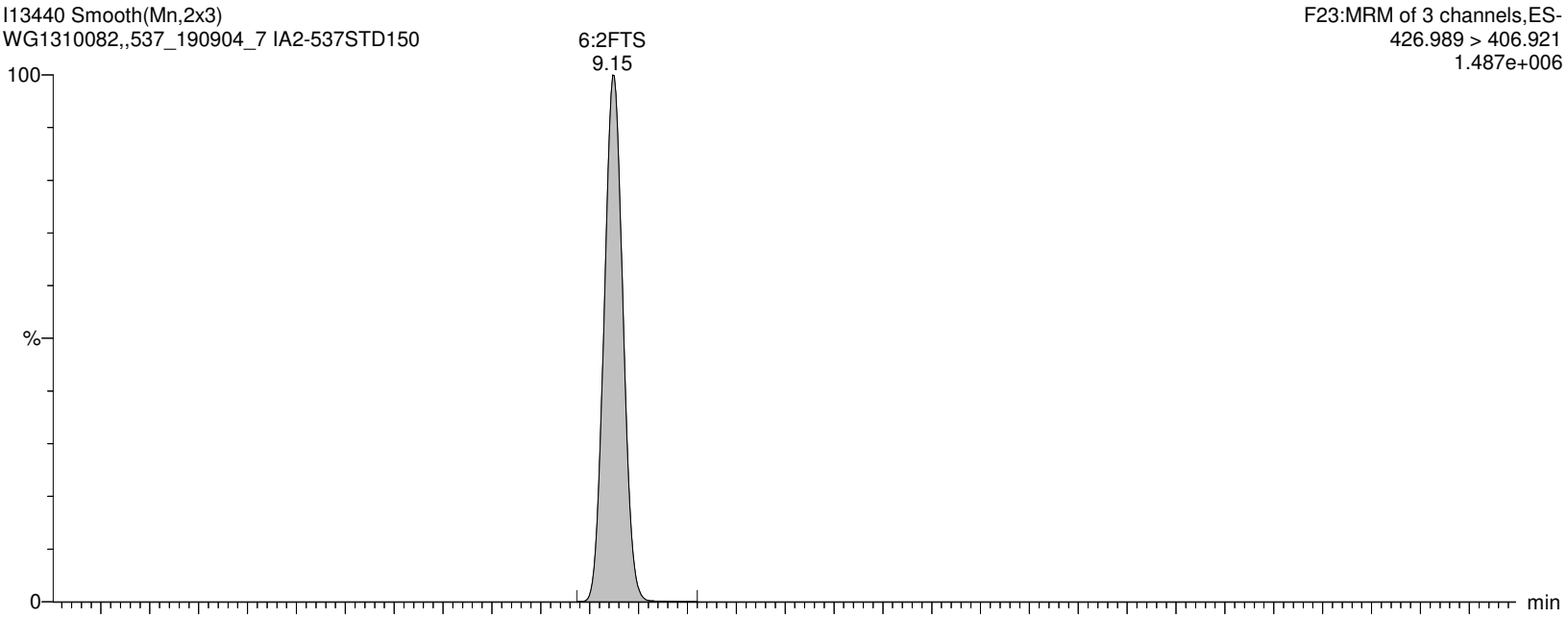

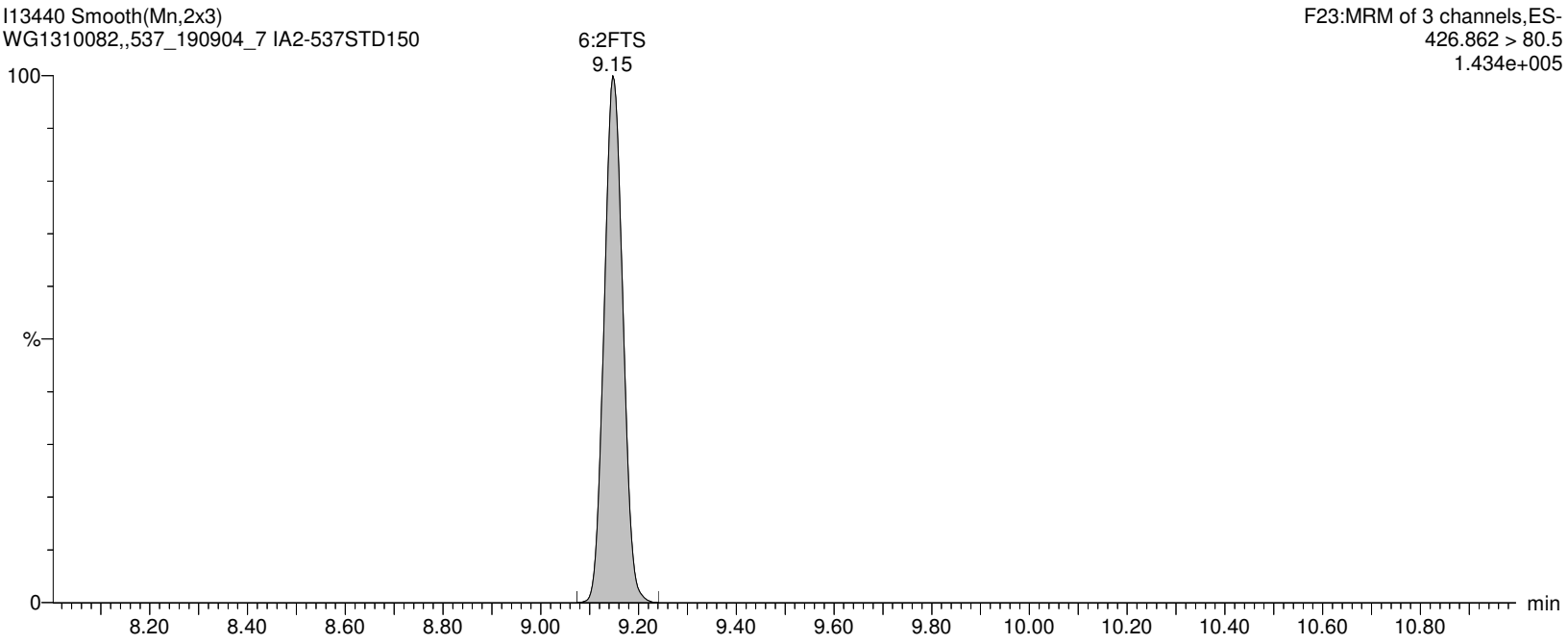

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

Name: I13440
ID: IA2-537STD150
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
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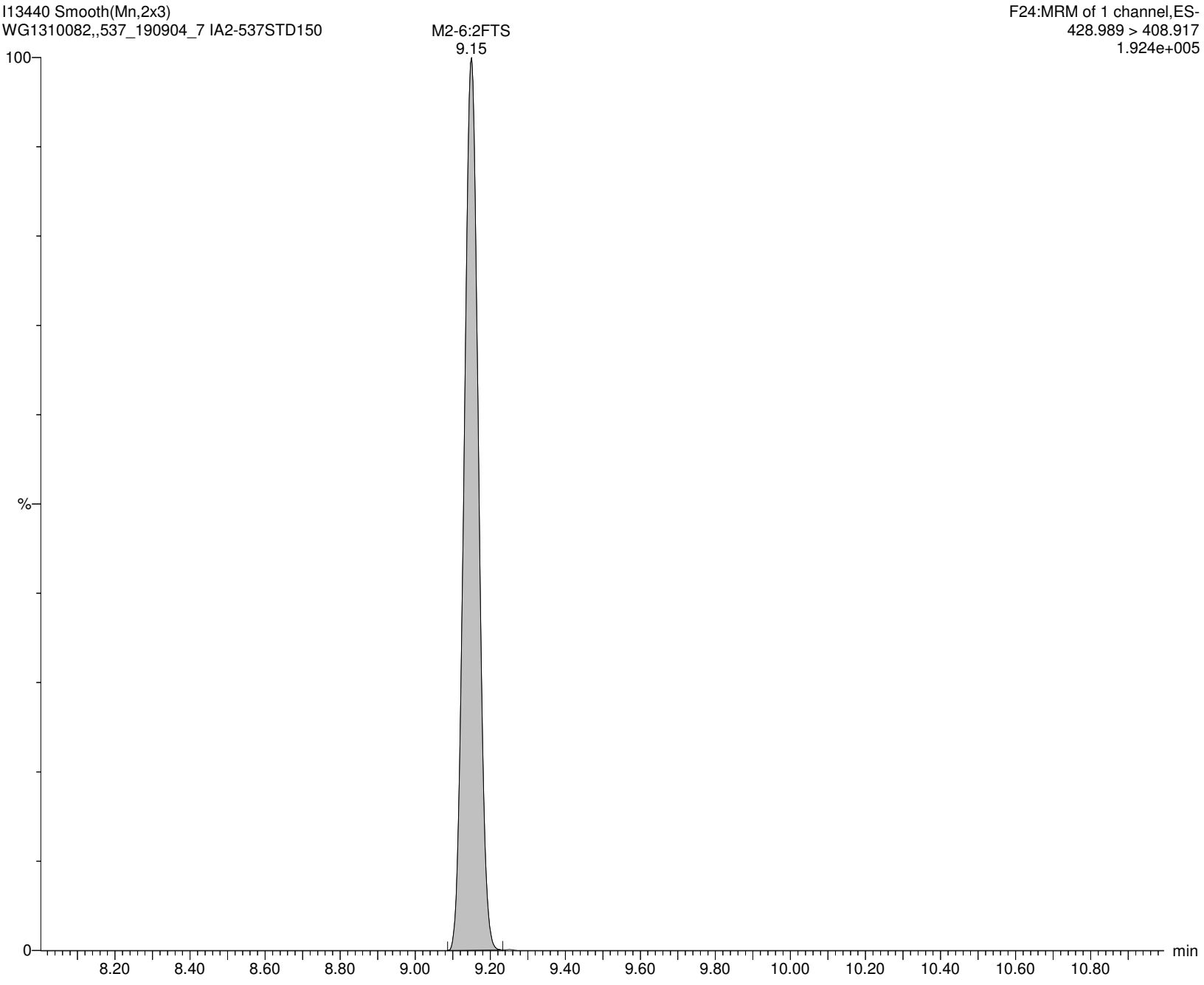
M2-6:2FTS



all concentration units in (ng/mL)

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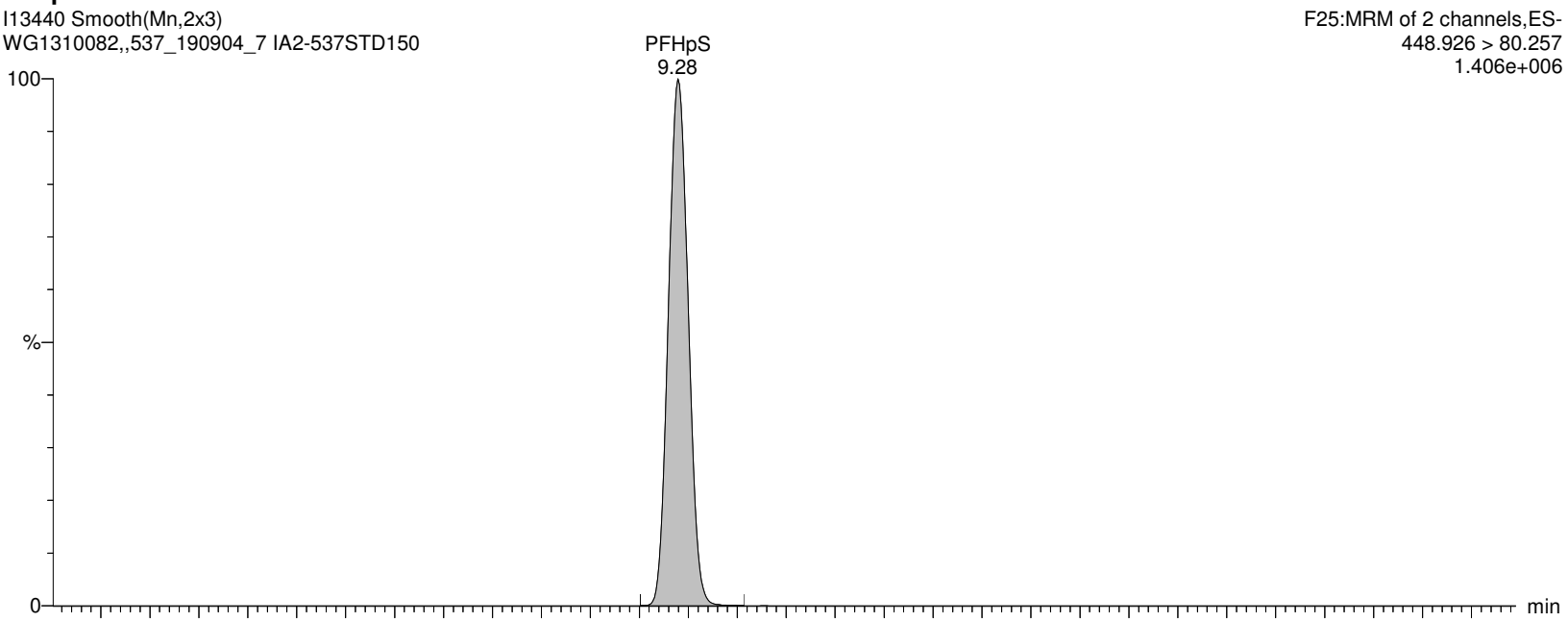

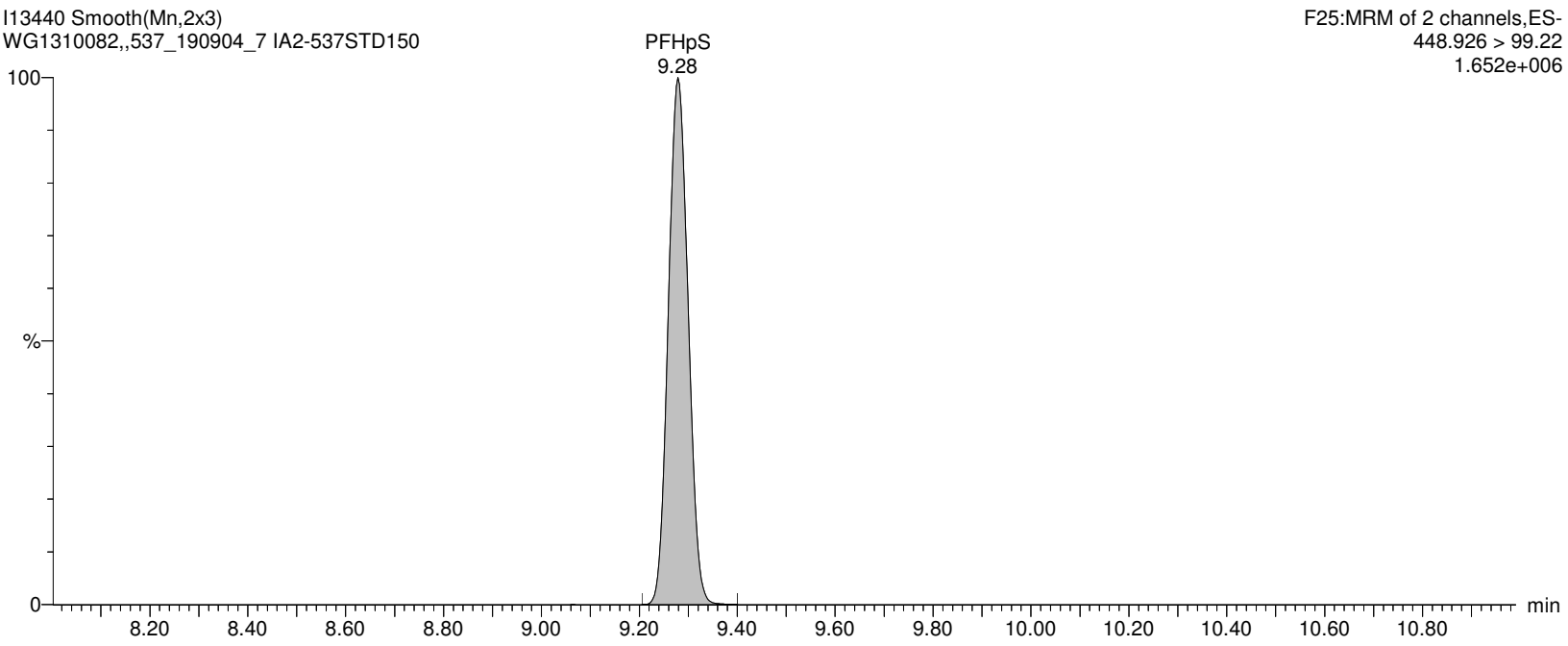

all concentration units in (ng/mL)

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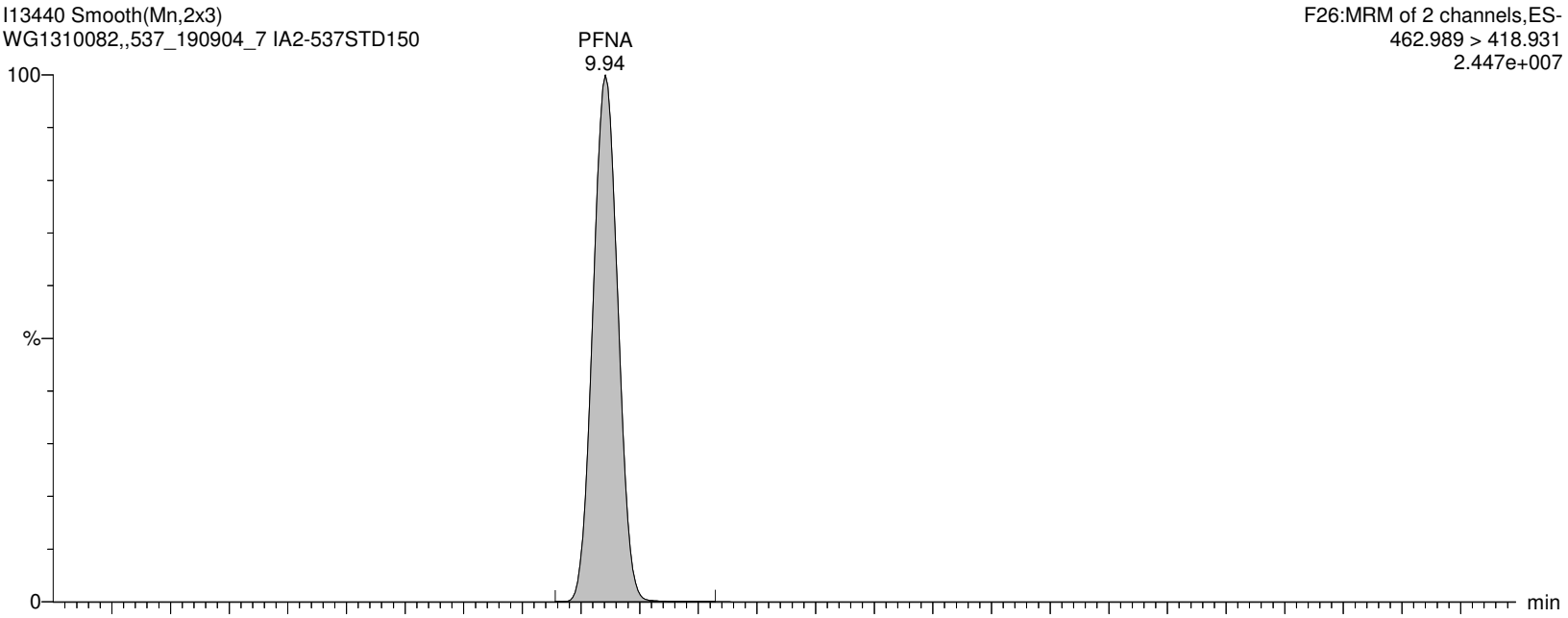

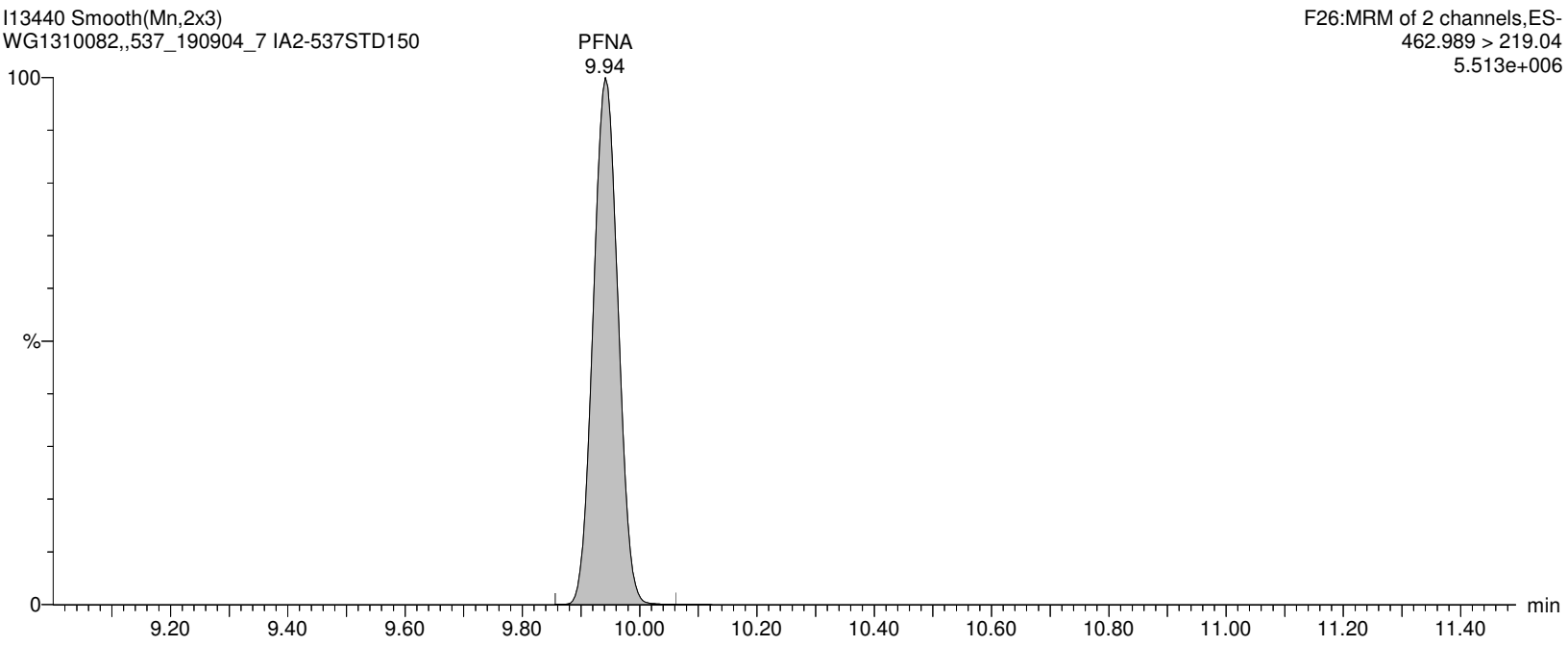

all concentration units in (ng/mL)

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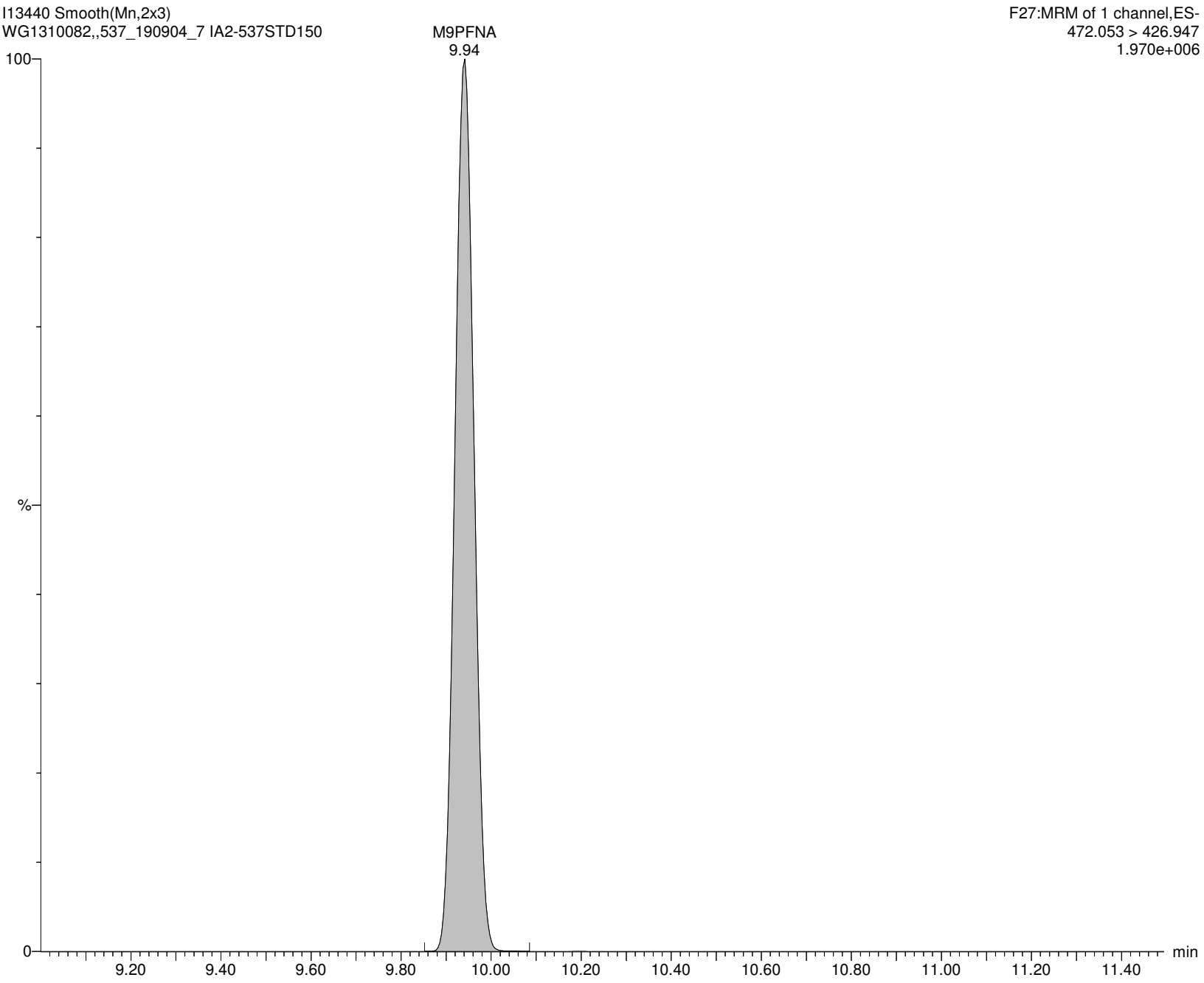

all concentration units in (ng/mL)

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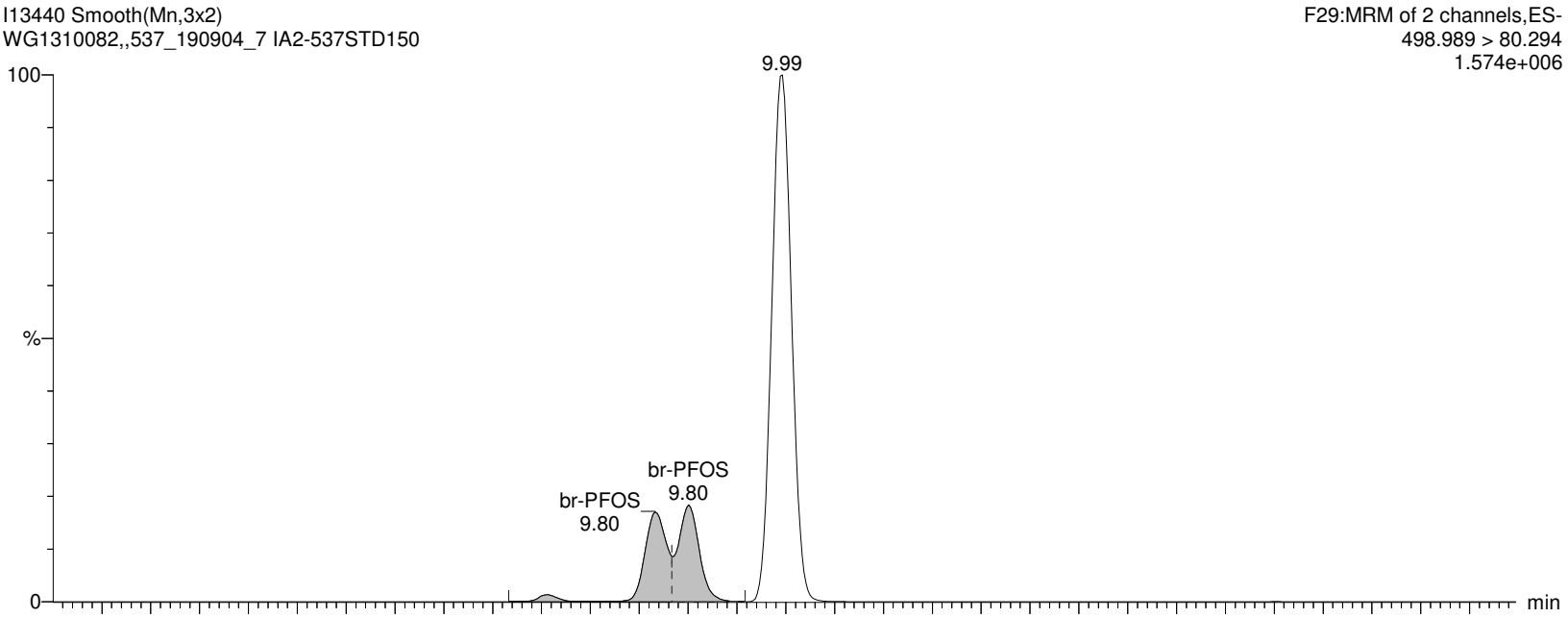

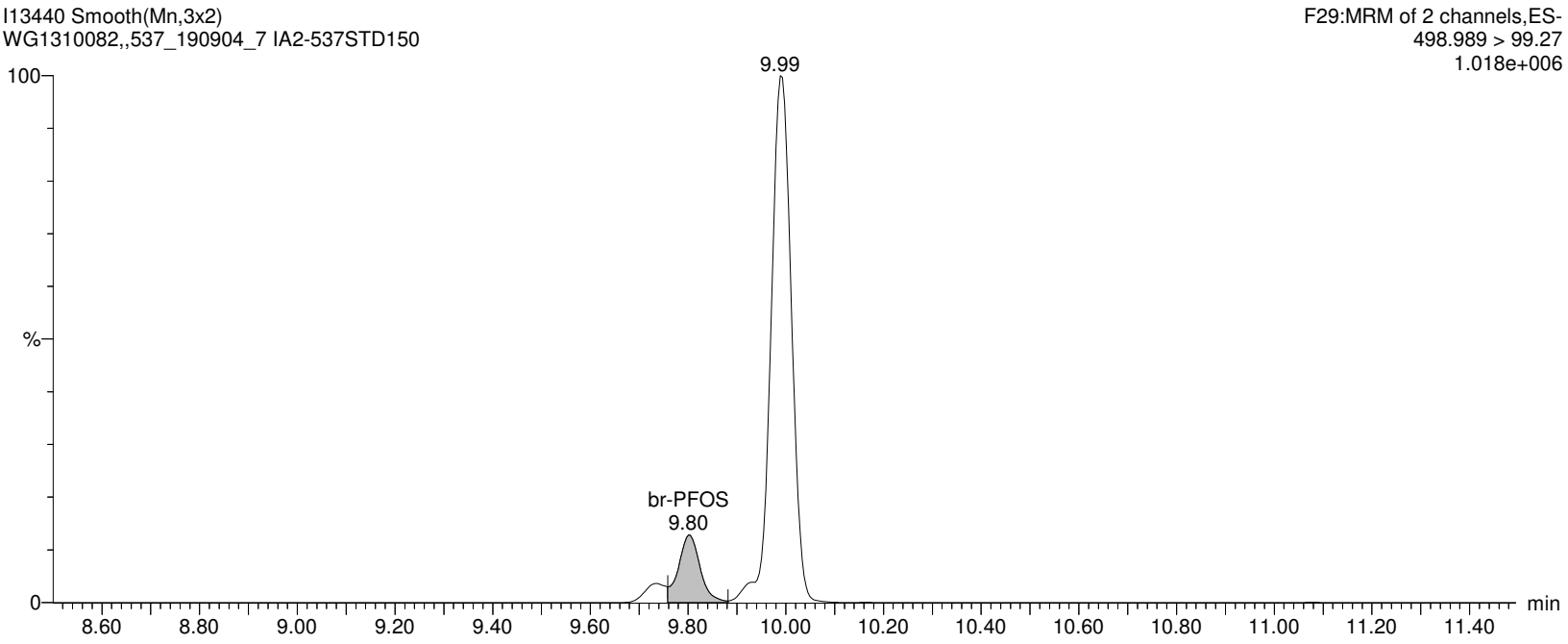

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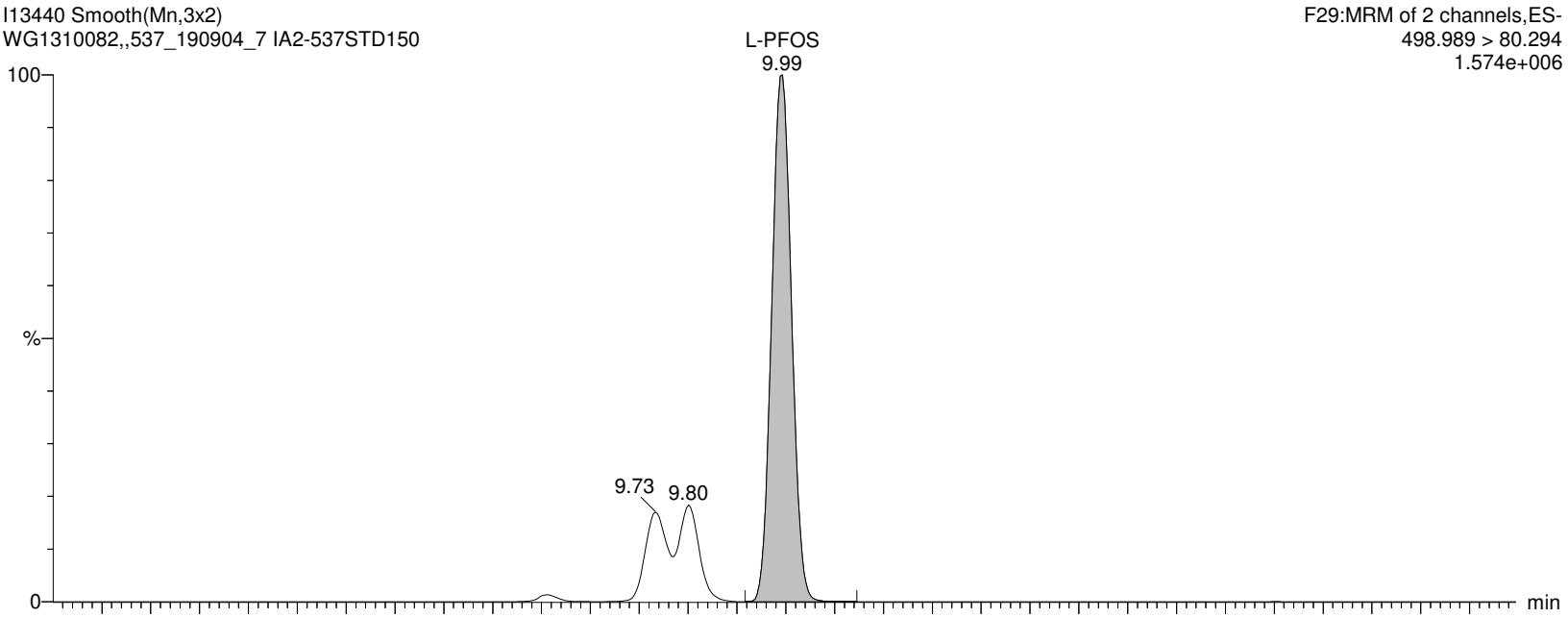

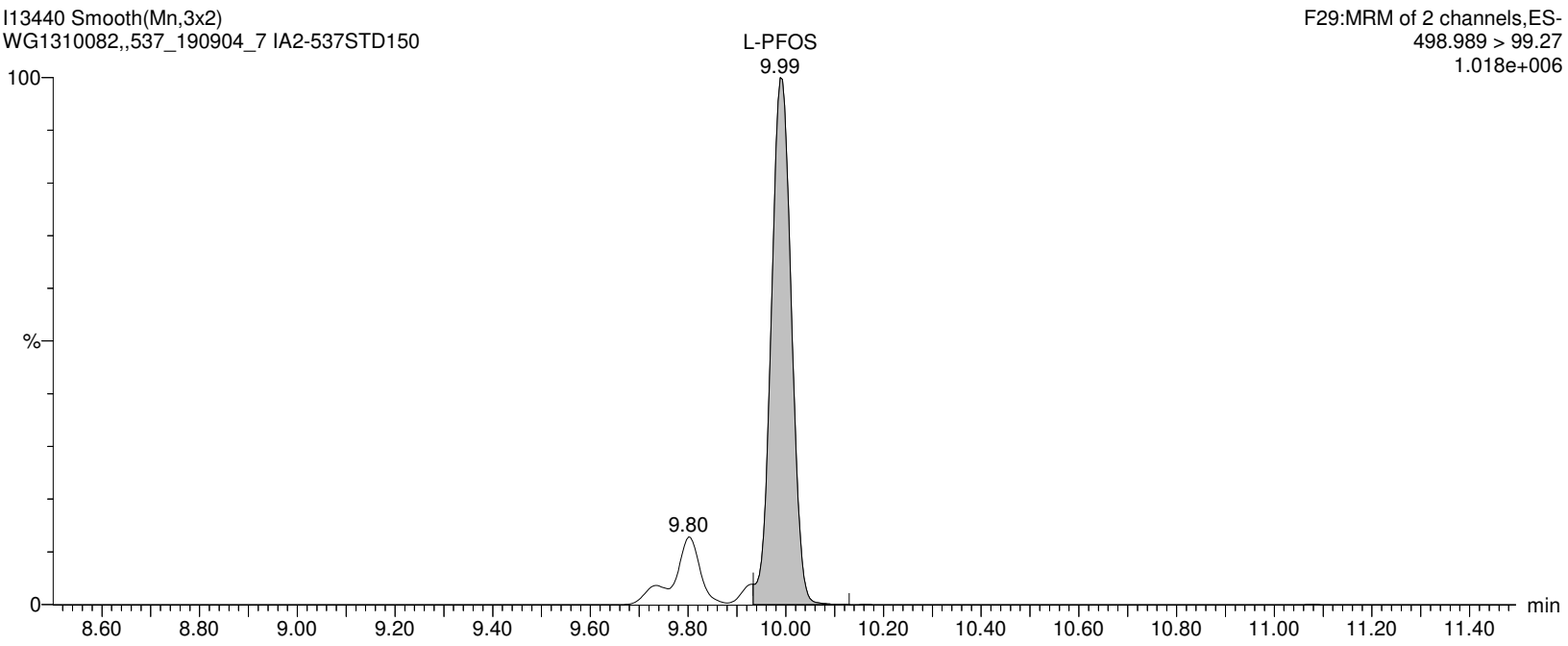

all concentration units in (ng/mL)

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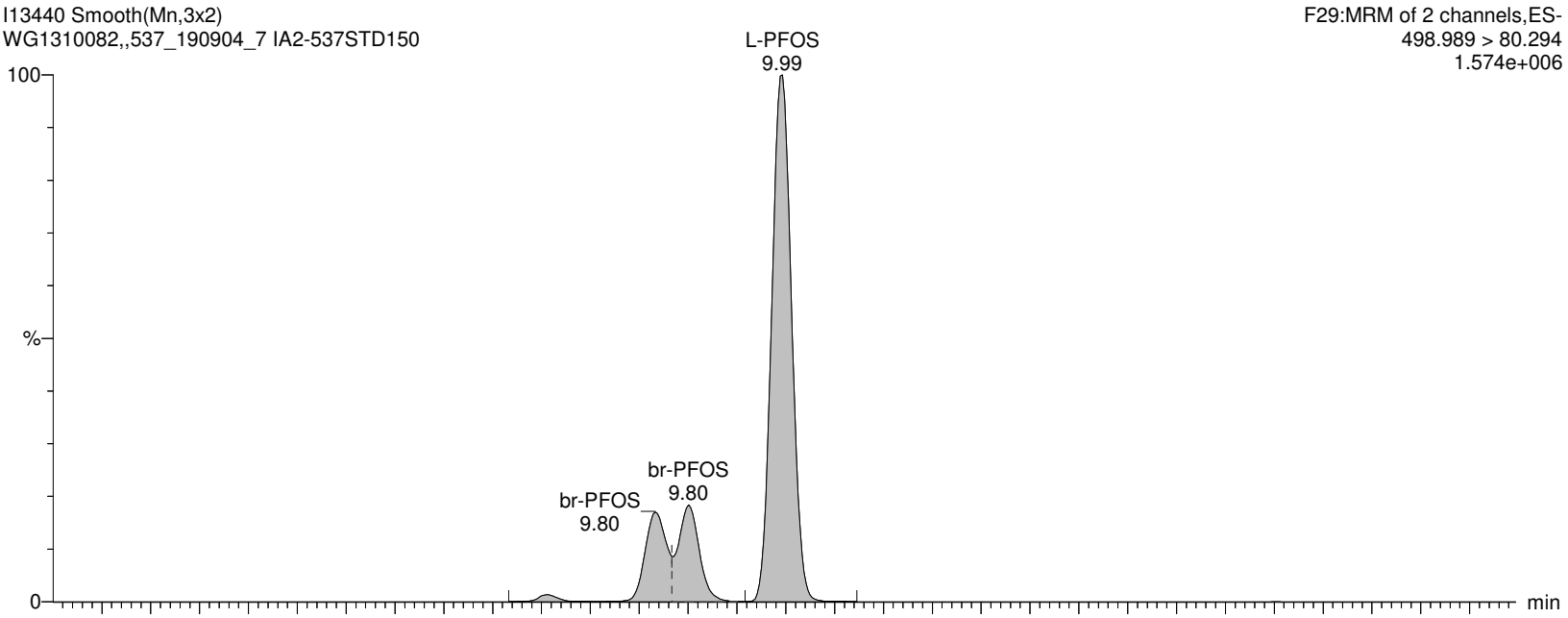

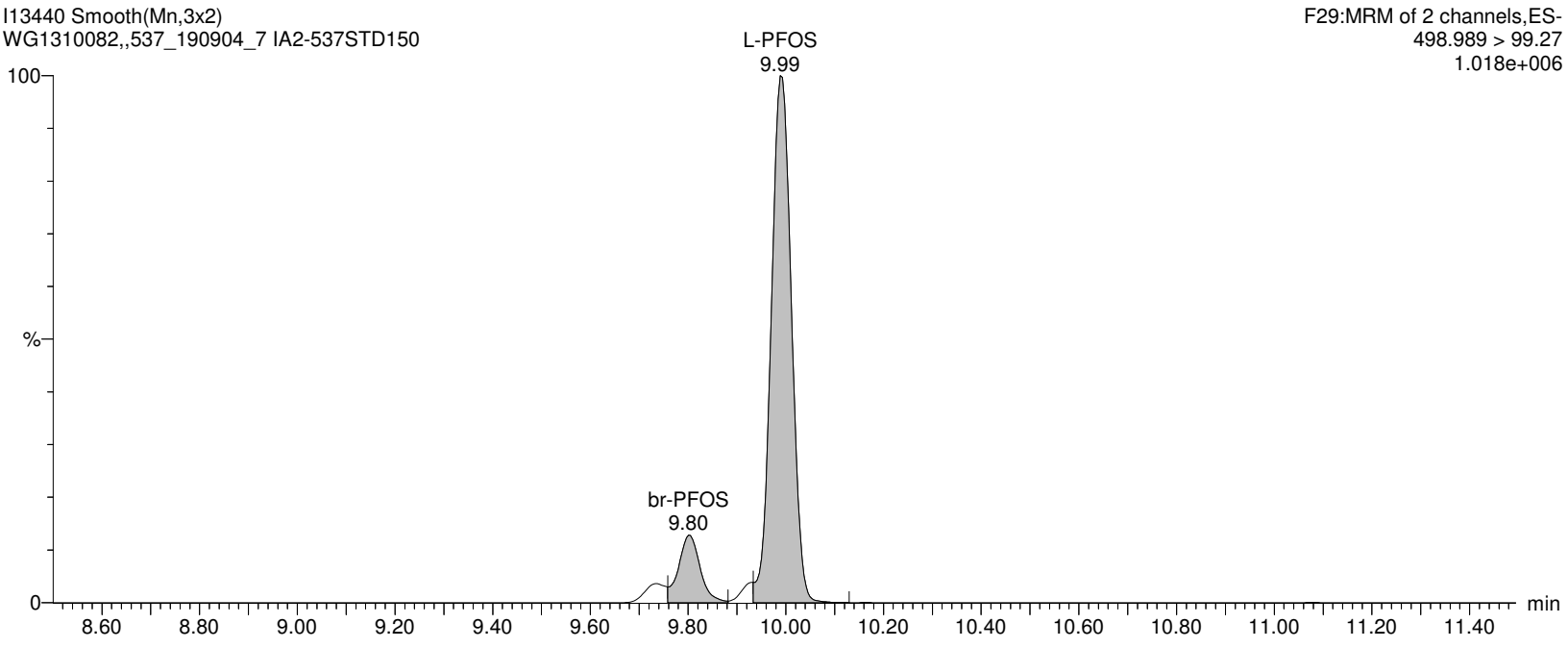

all concentration units in (ng/mL)

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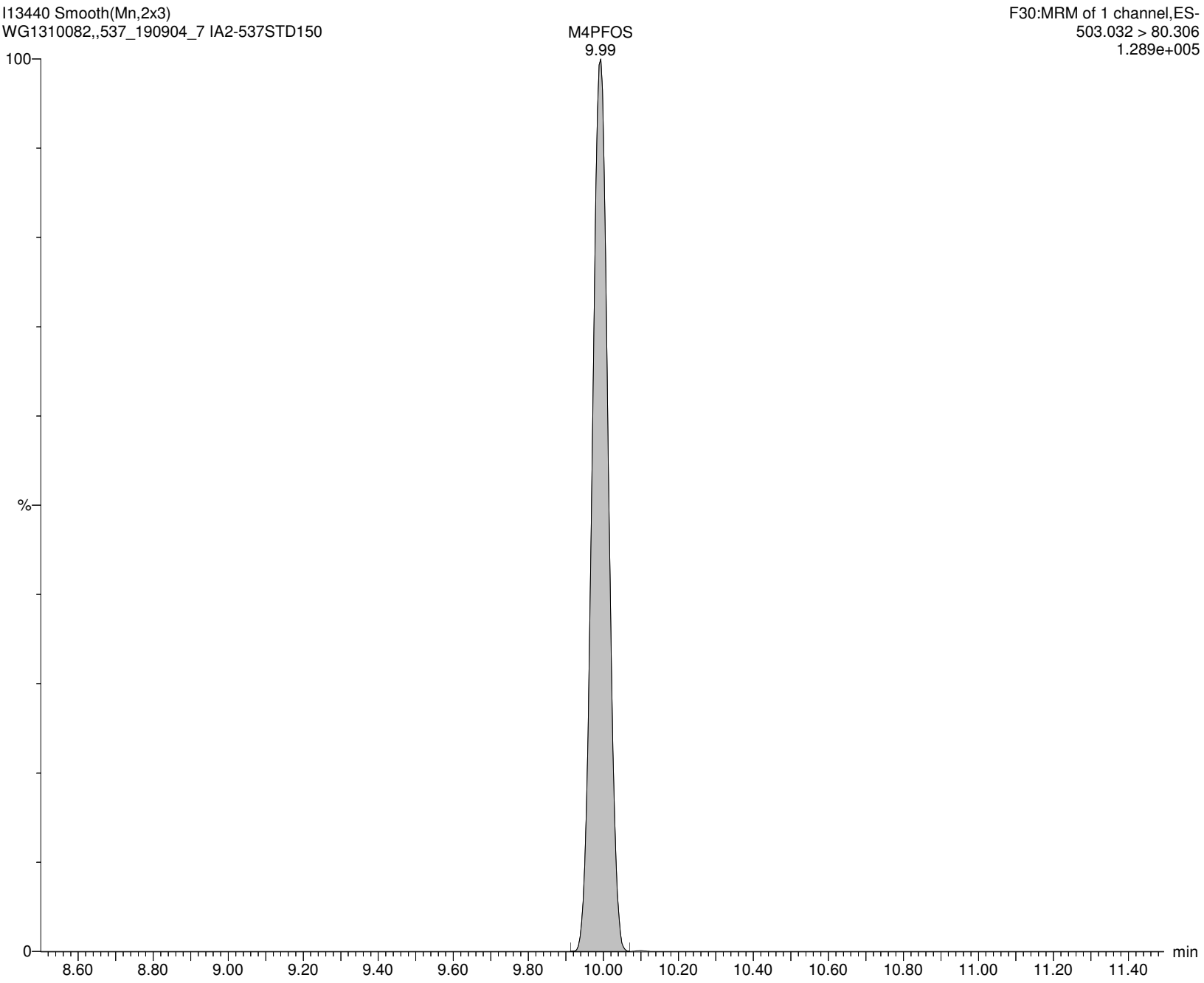

all concentration units in (ng/mL)

Alpha Analytical Inc.
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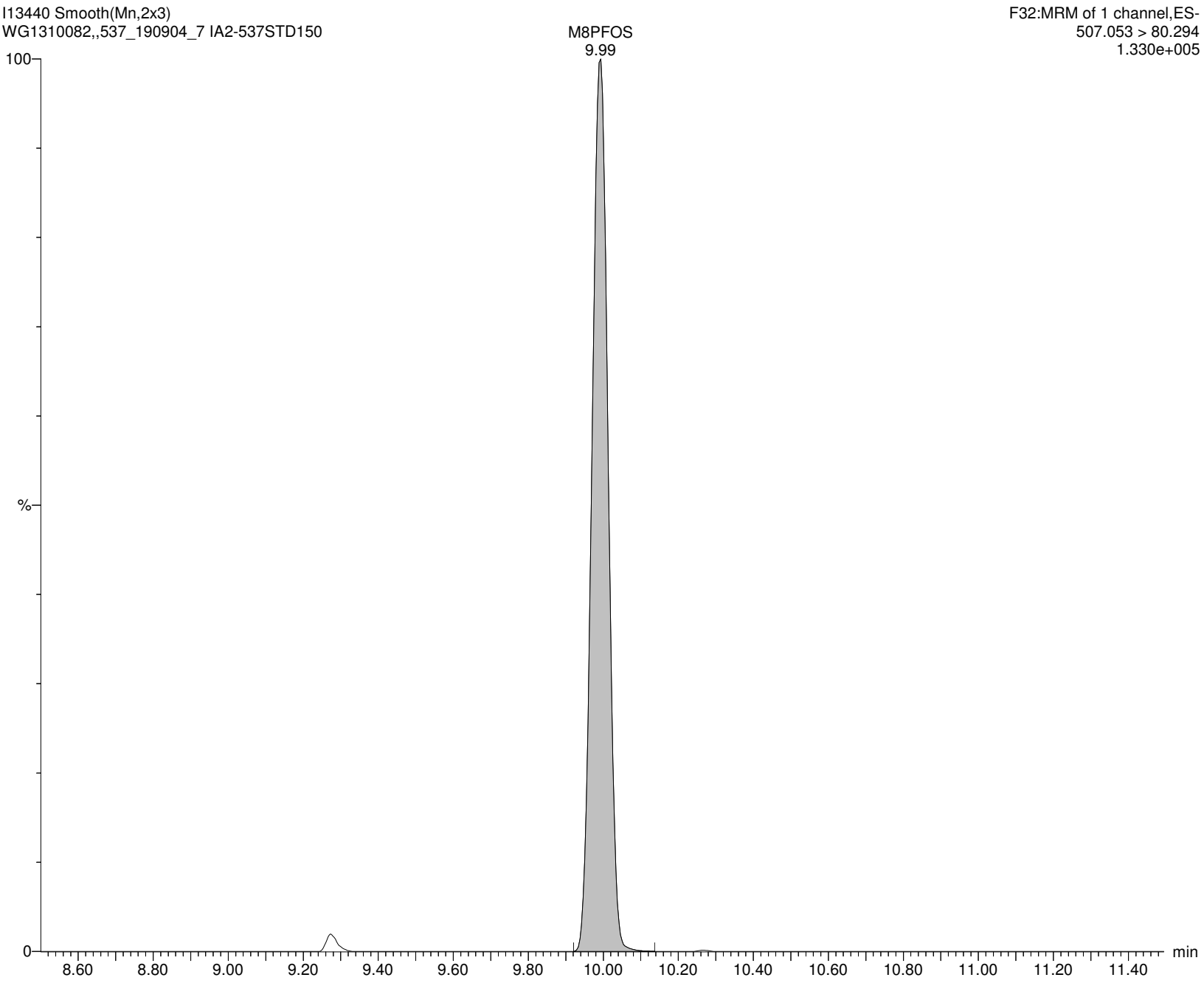

all concentration units in (ng/mL)

Alpha Analytical Inc.
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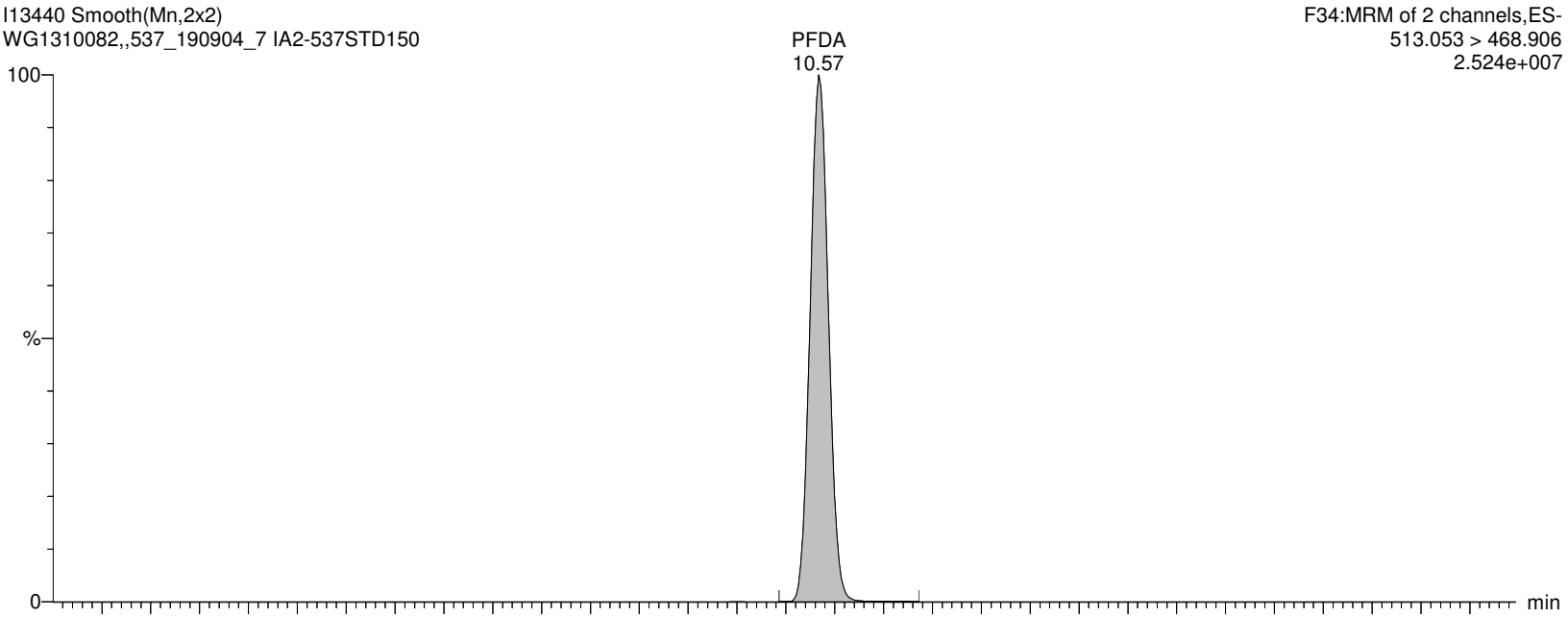

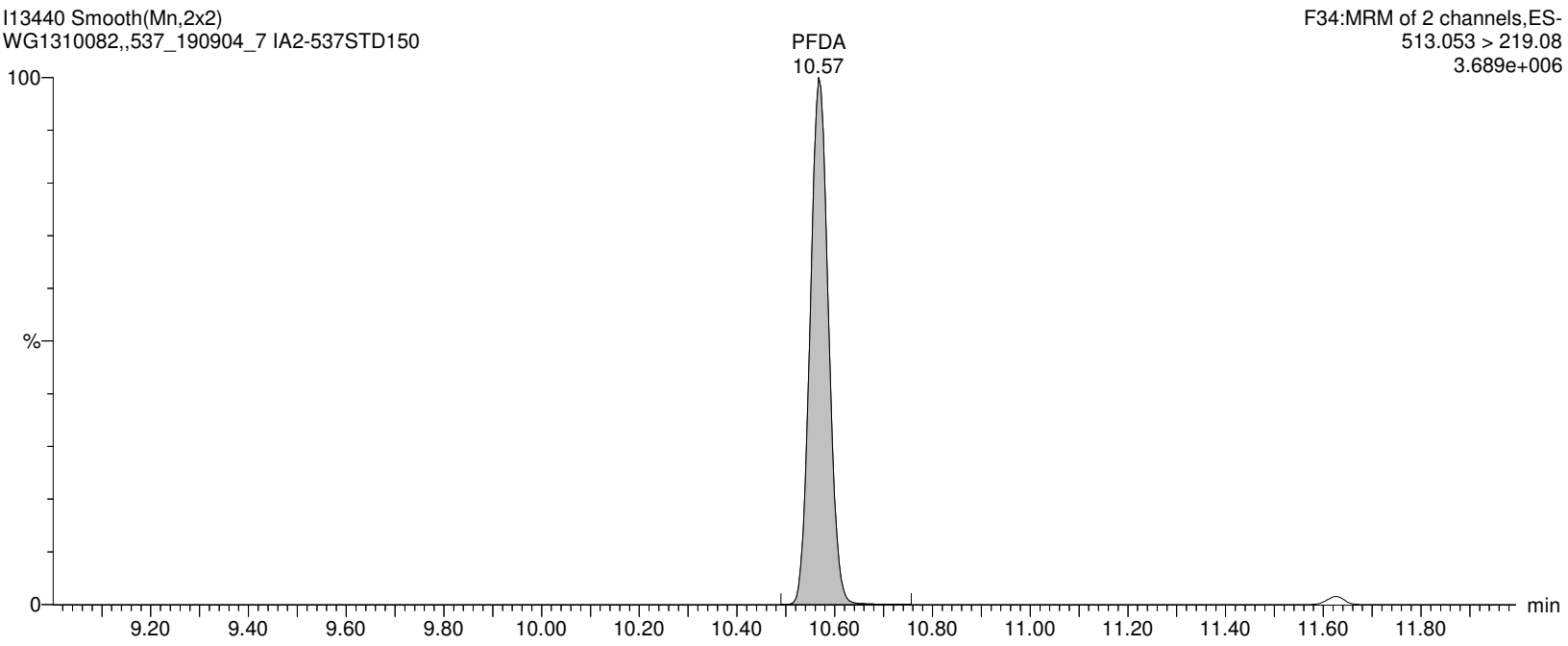

all concentration units in (ng/mL)

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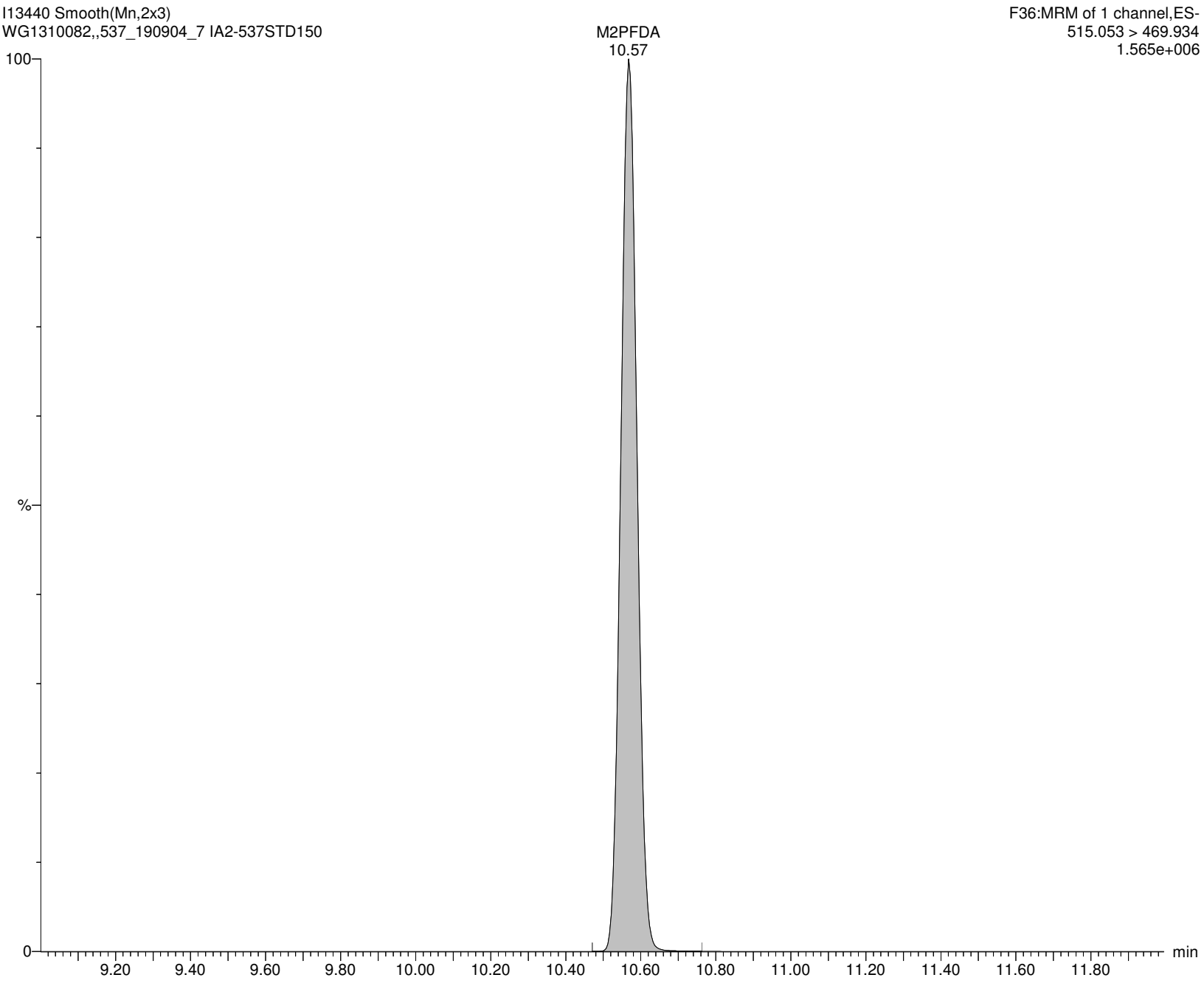

all concentration units in (ng/mL)

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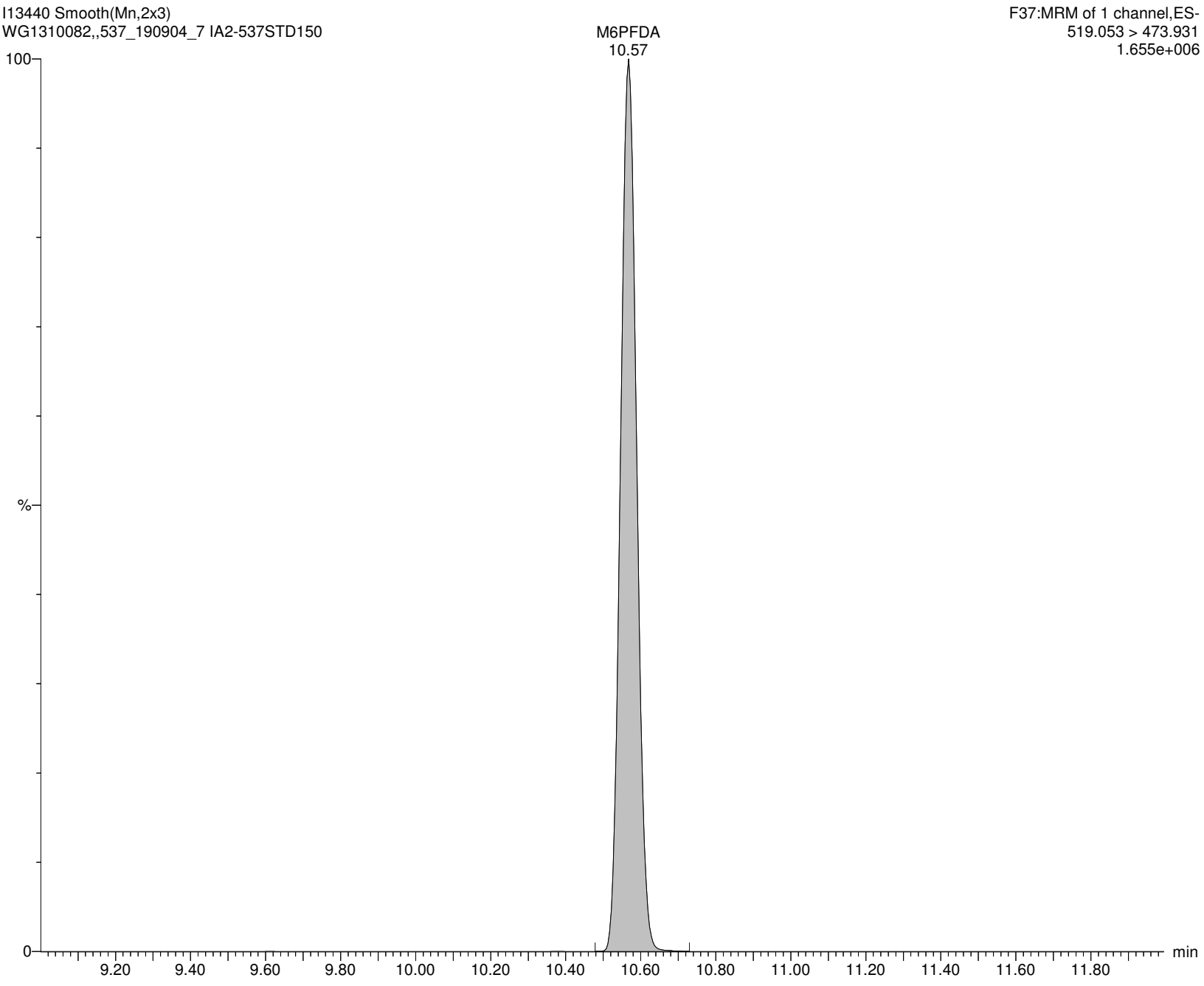

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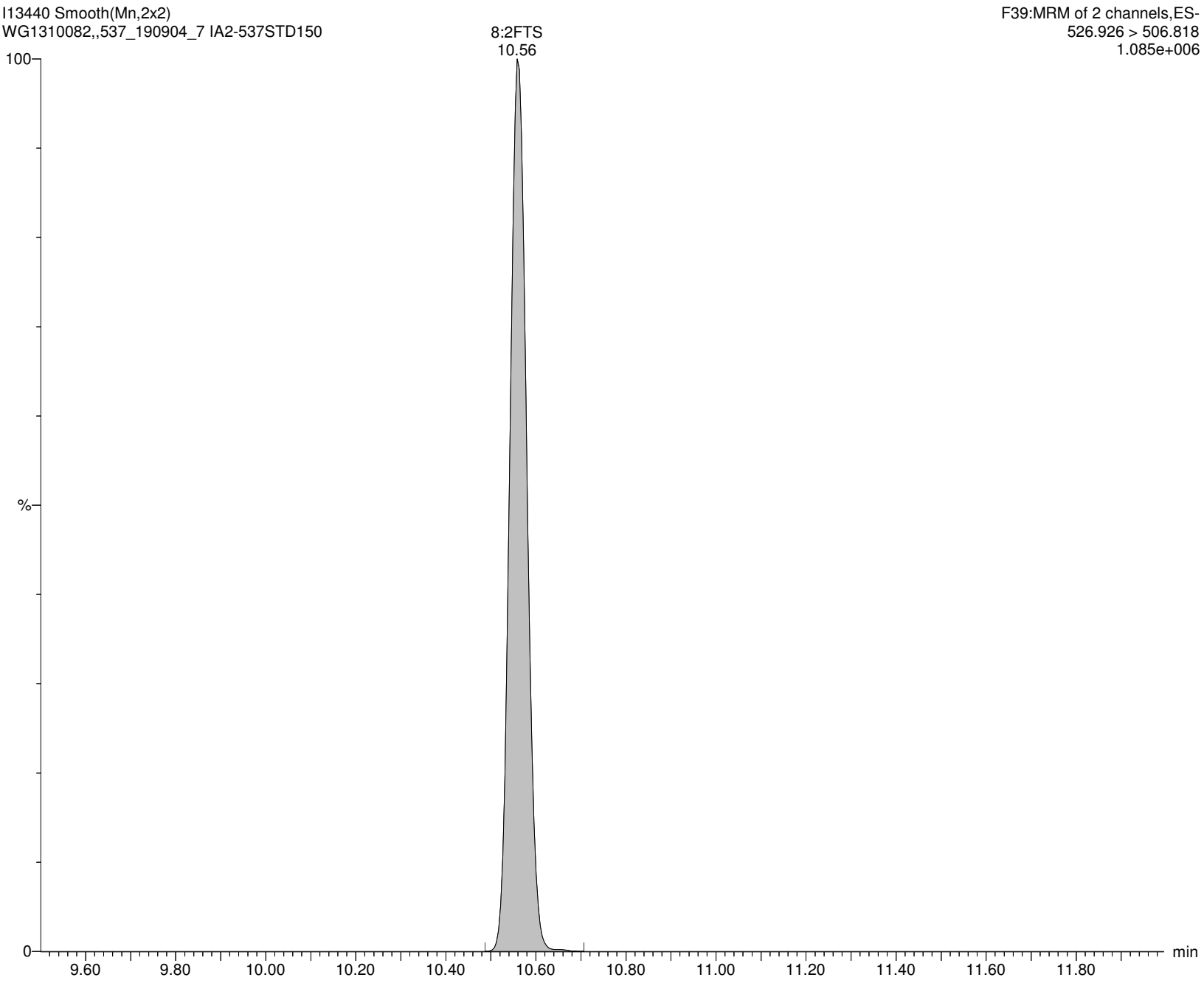

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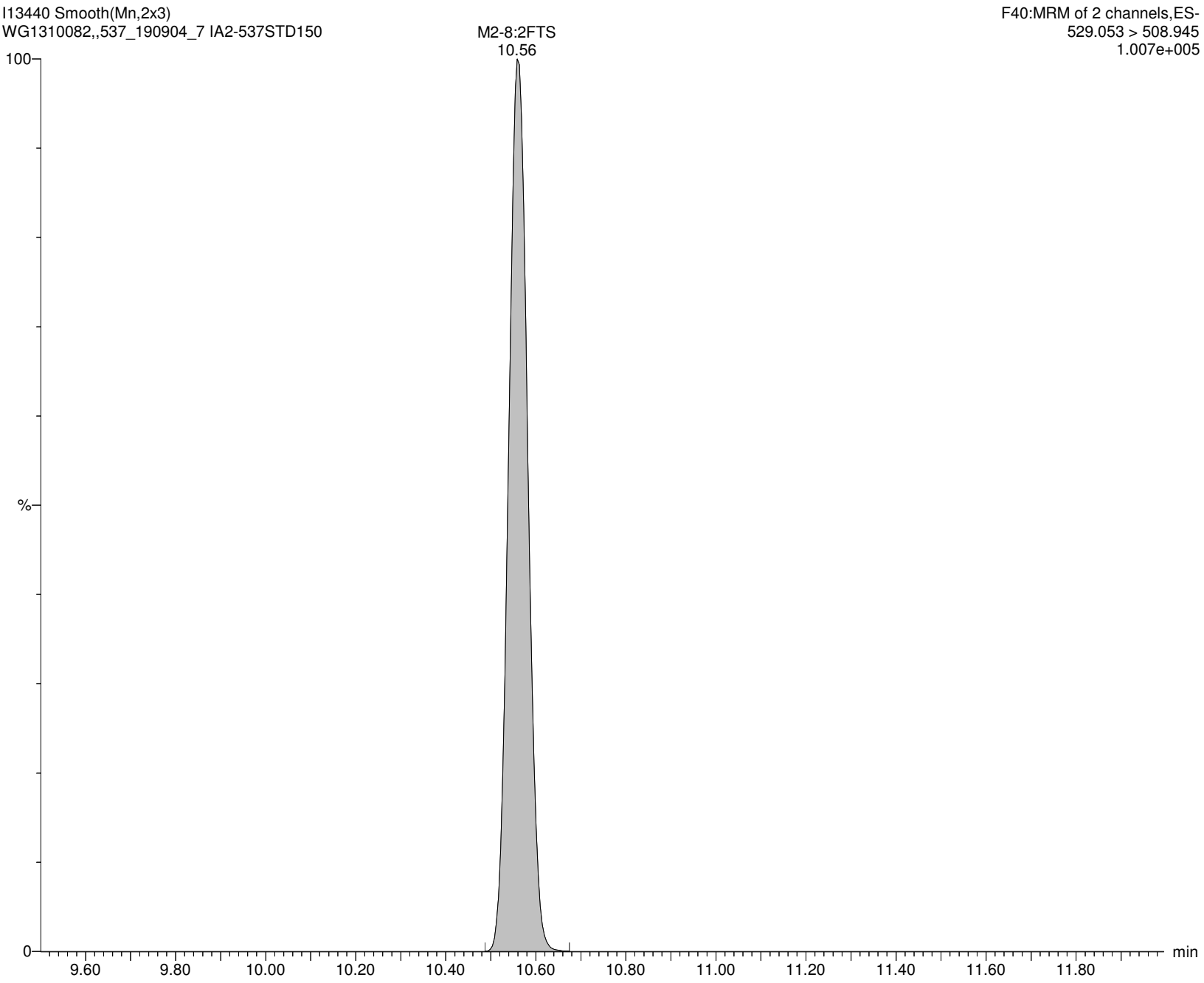

all concentration units in (ng/mL)

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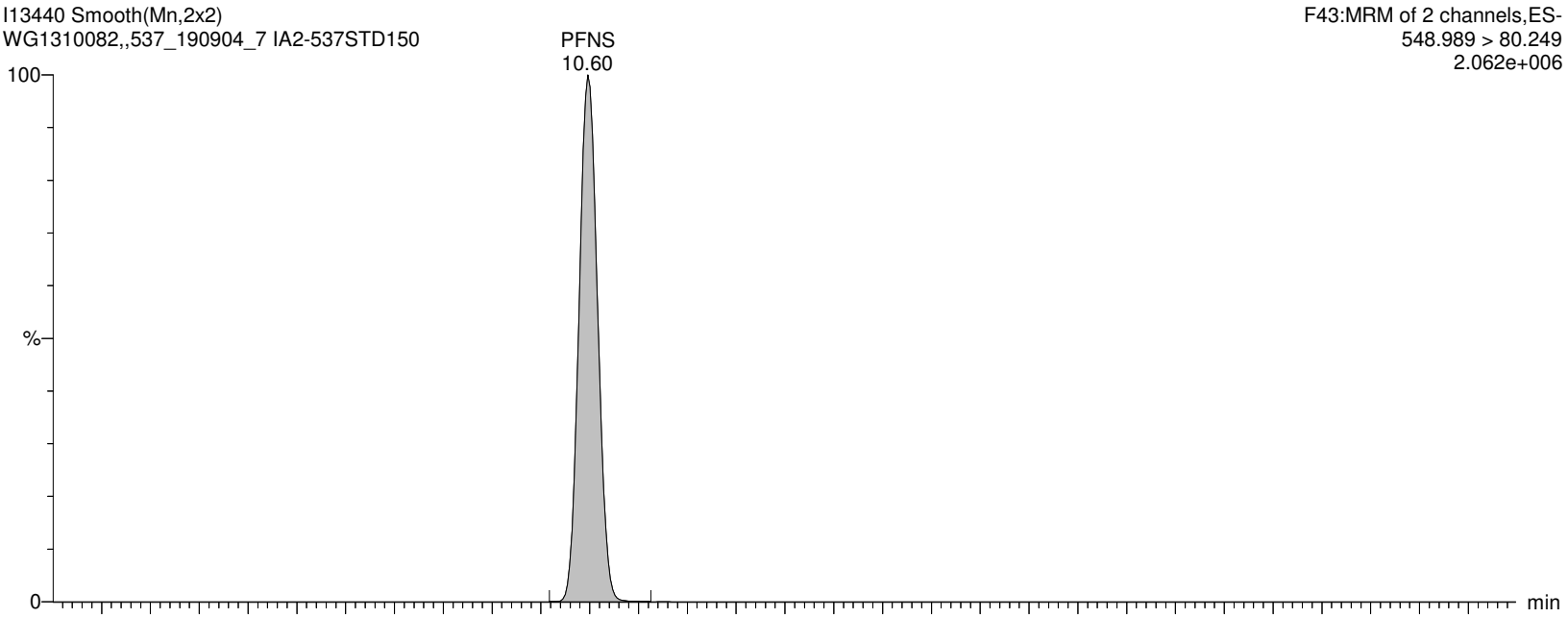
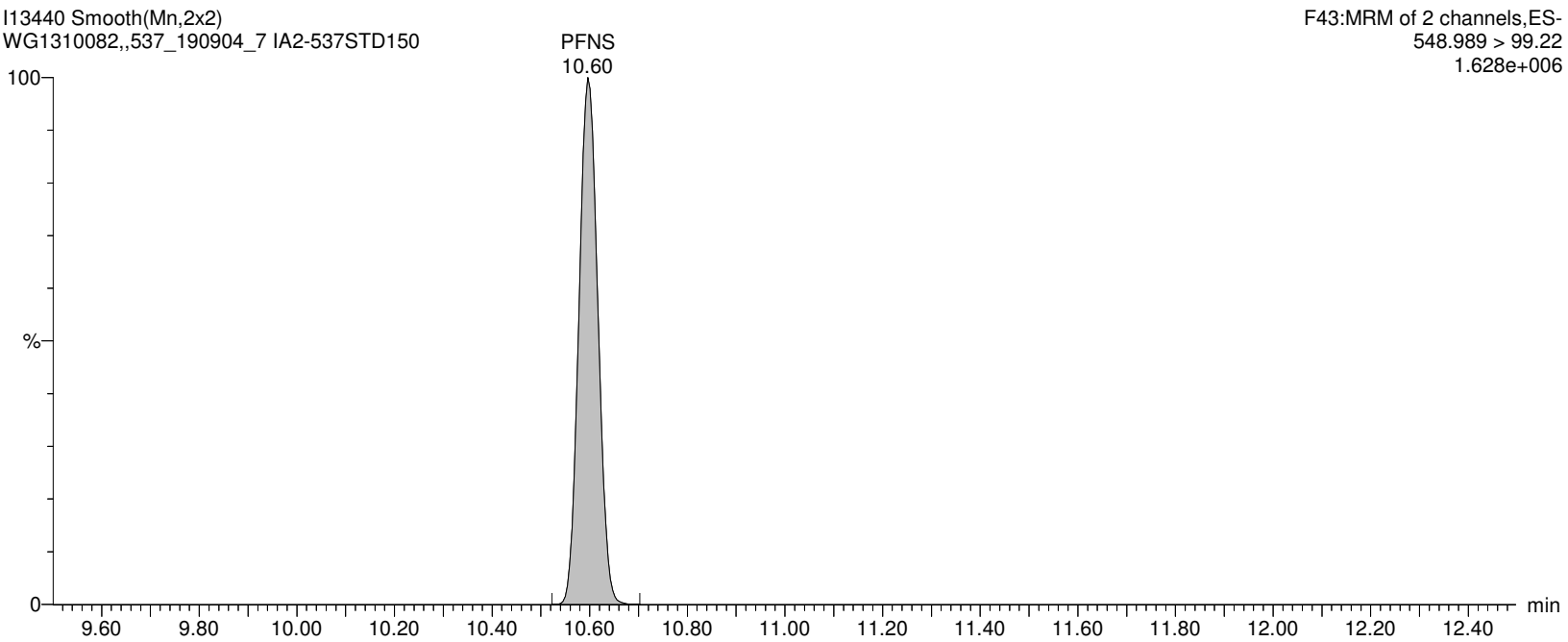
PFNS





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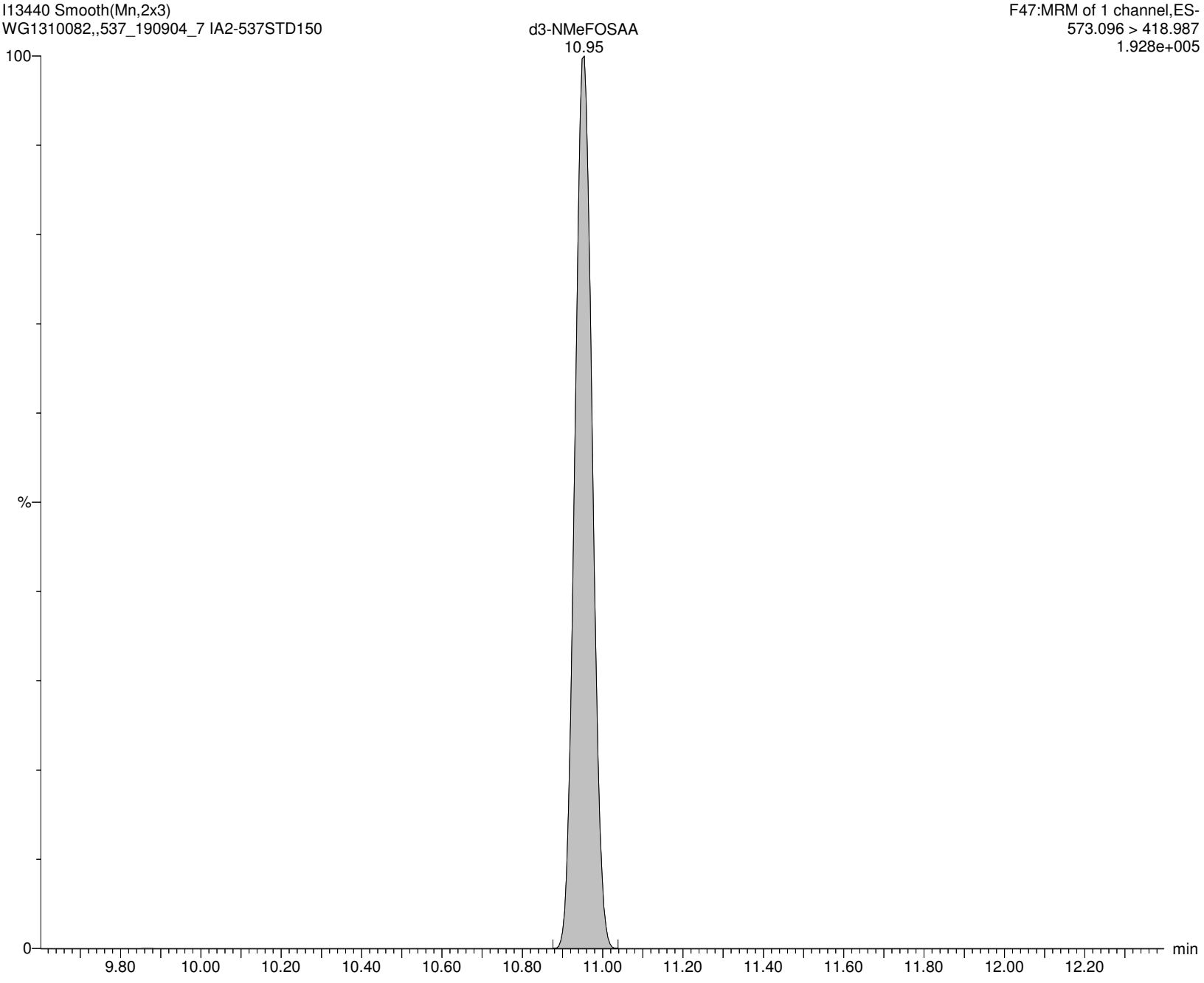

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

Name: I13440
ID: IA2-537STD150
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
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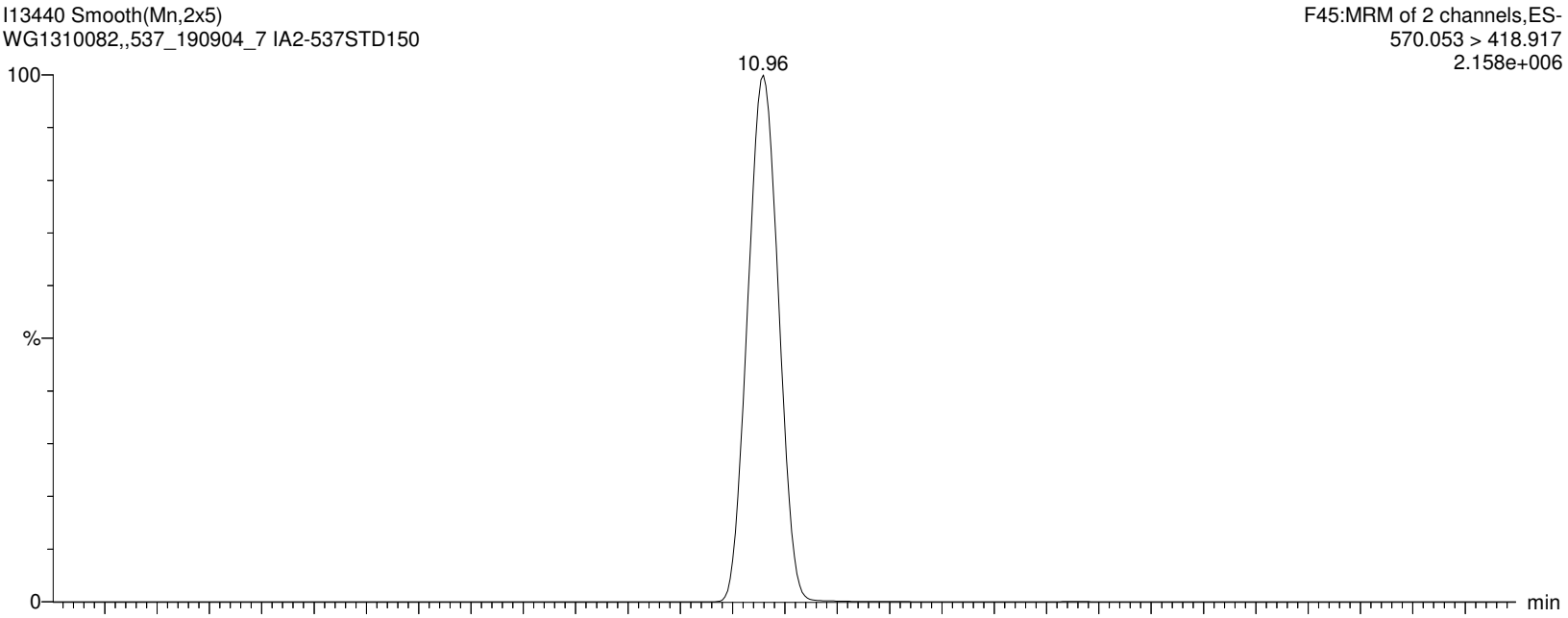
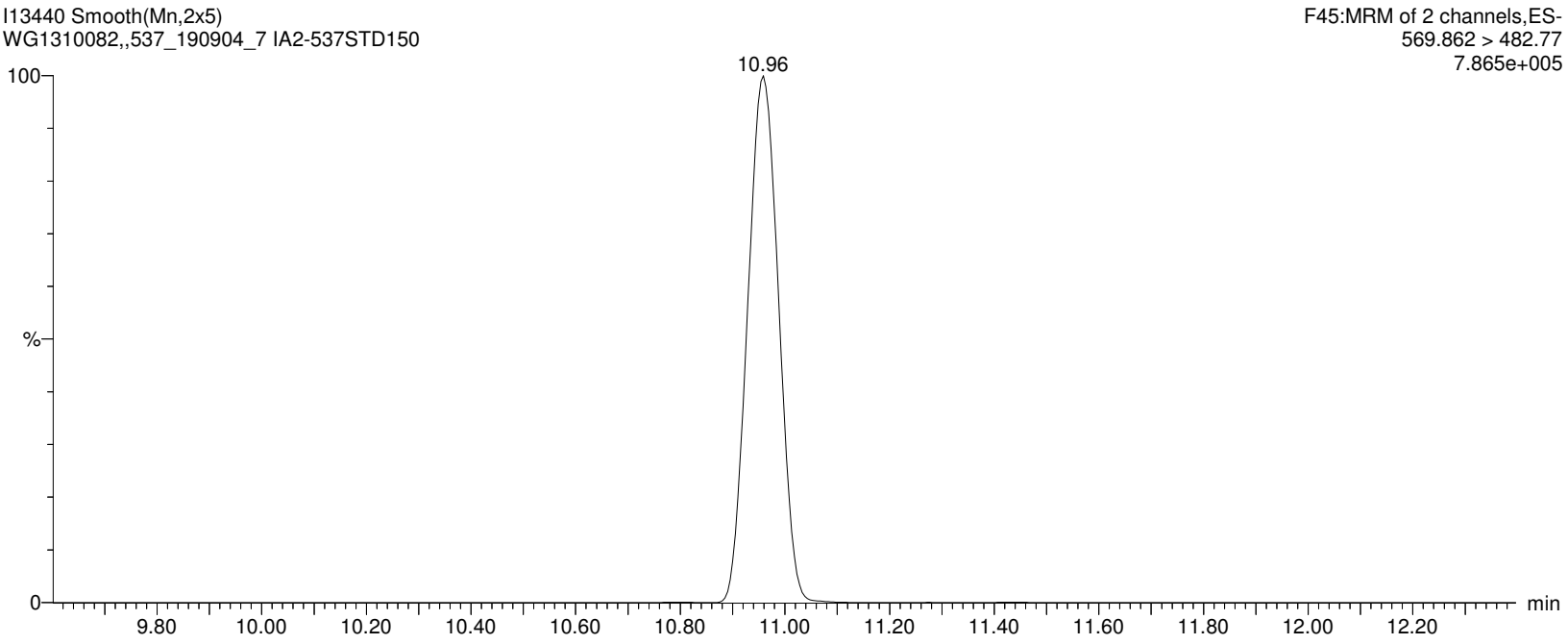
br-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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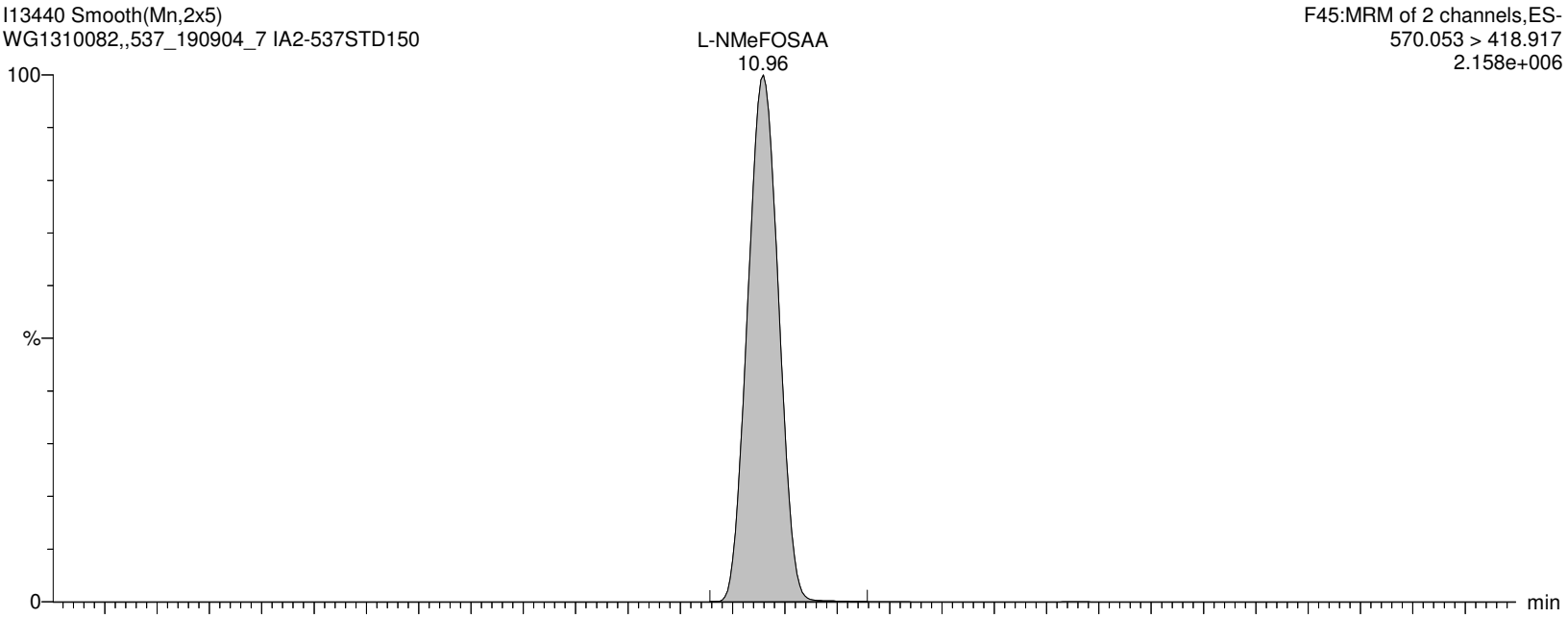

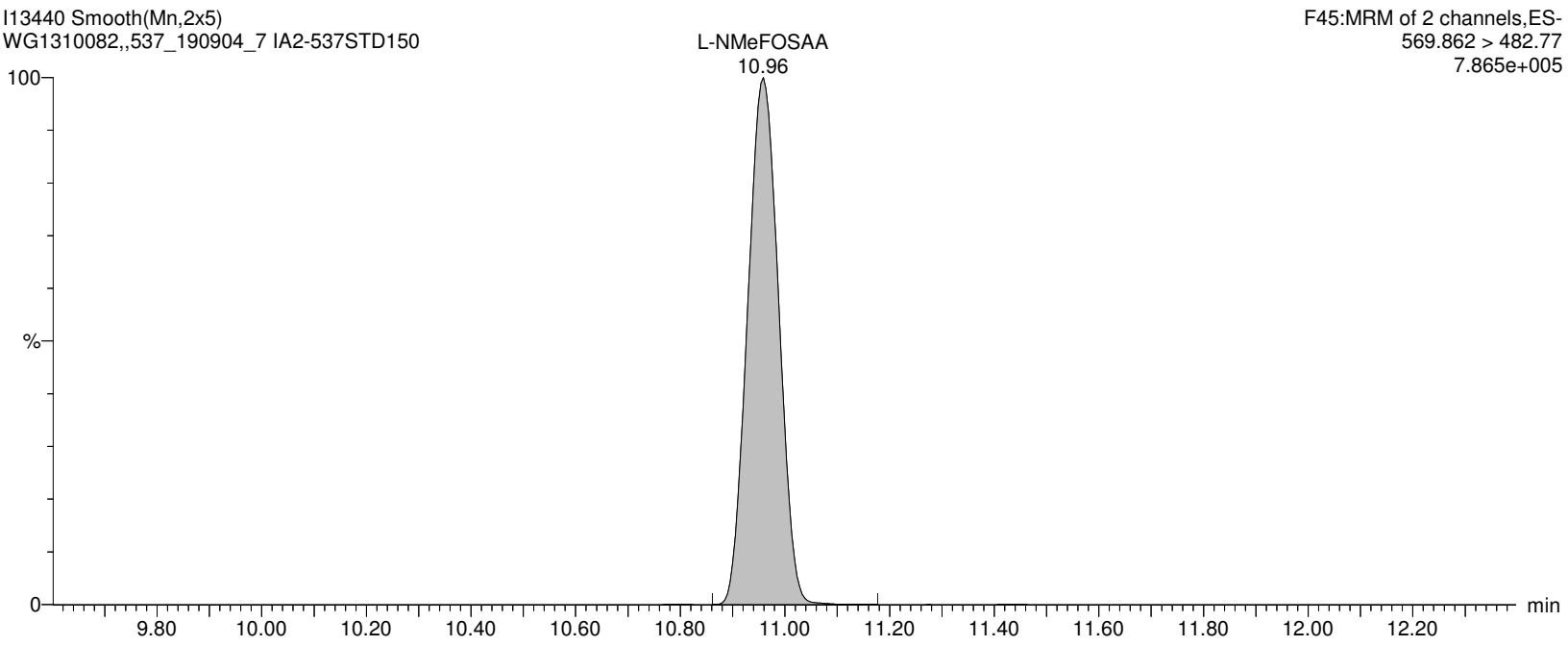

all concentration units in (ng/mL)

Alpha Analytical Inc.
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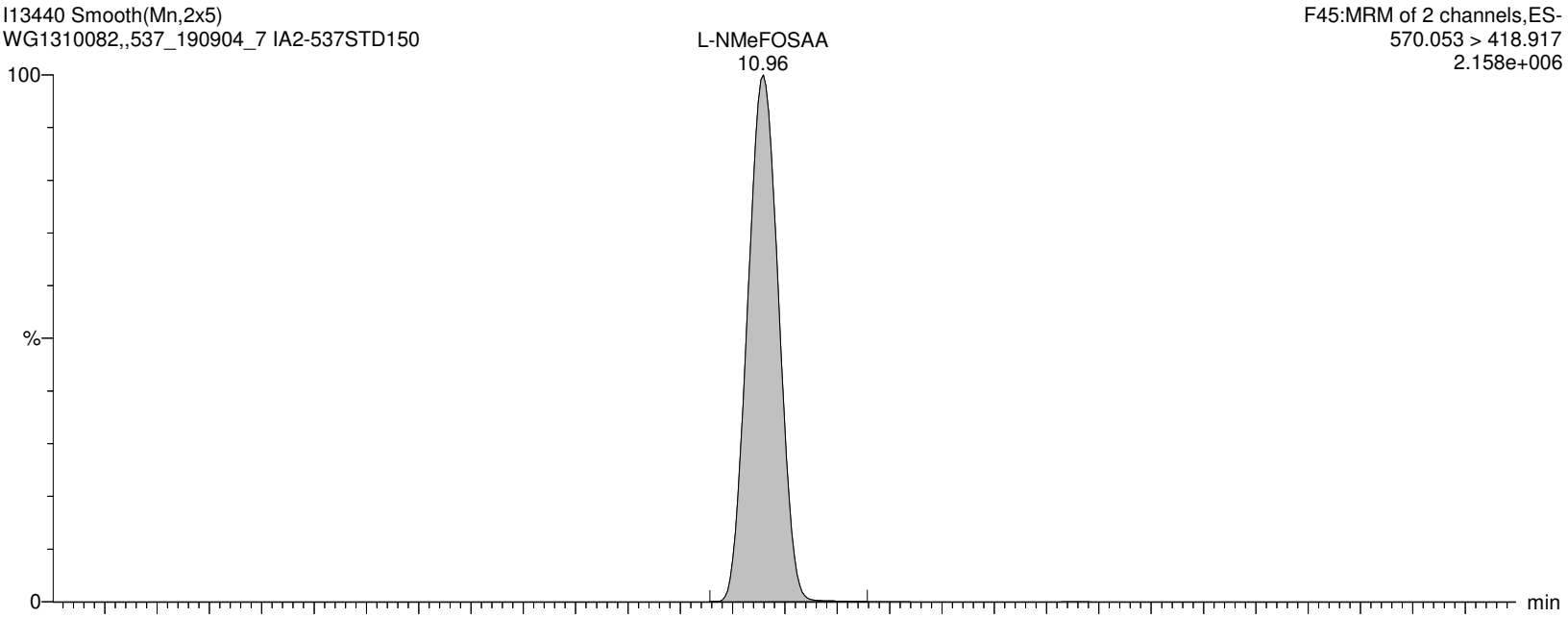

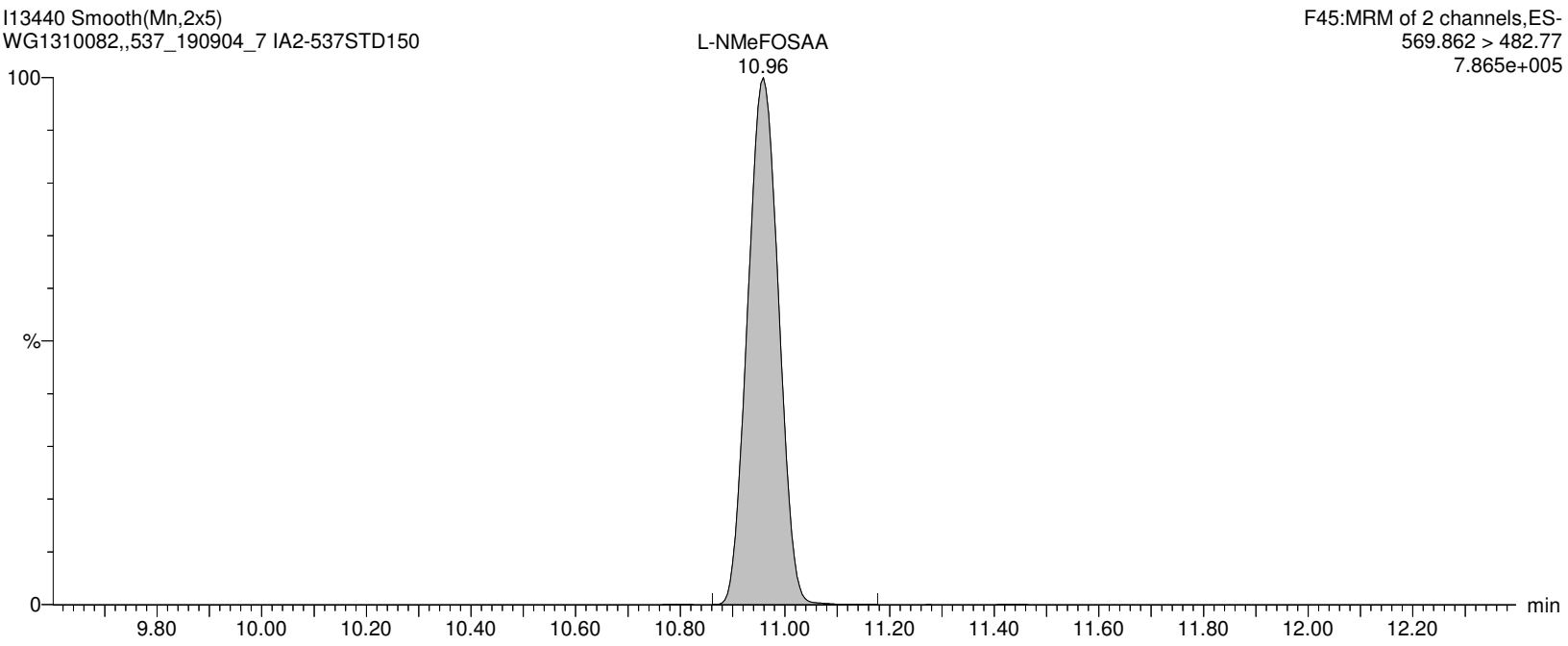

all concentration units in (ng/mL)

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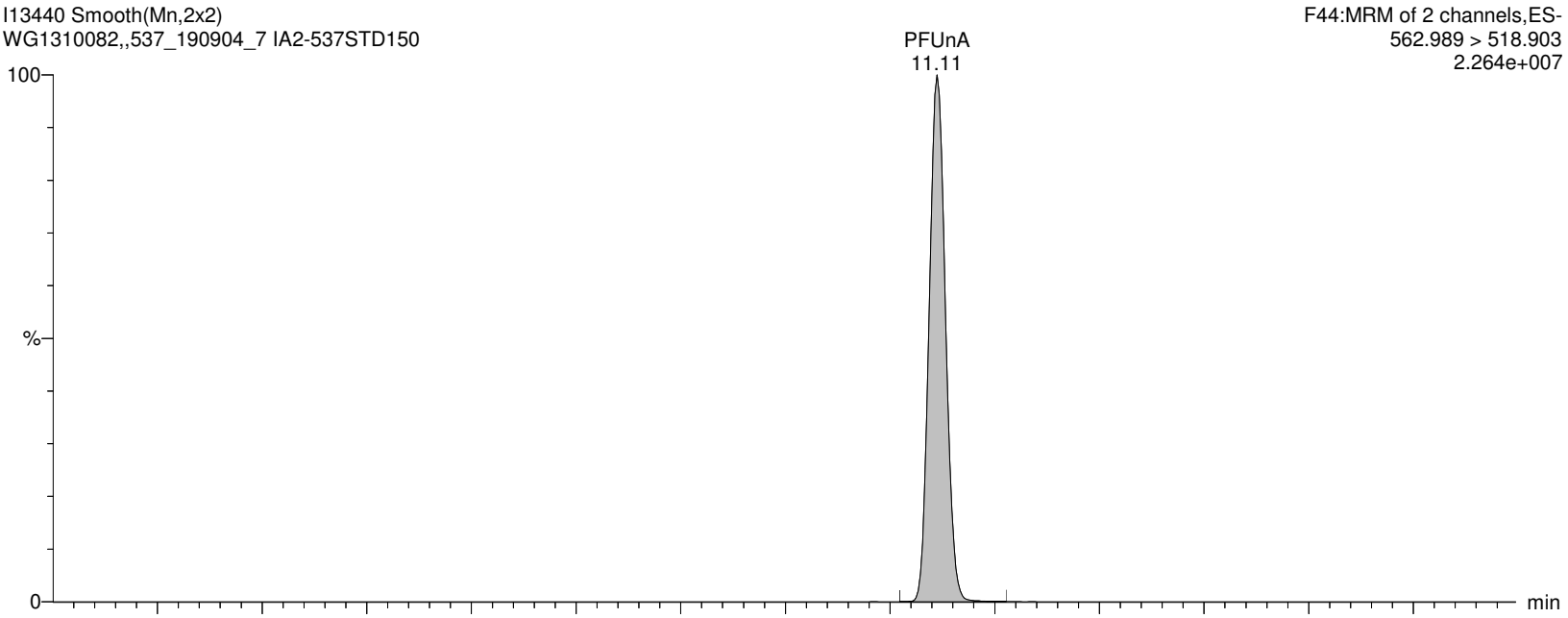

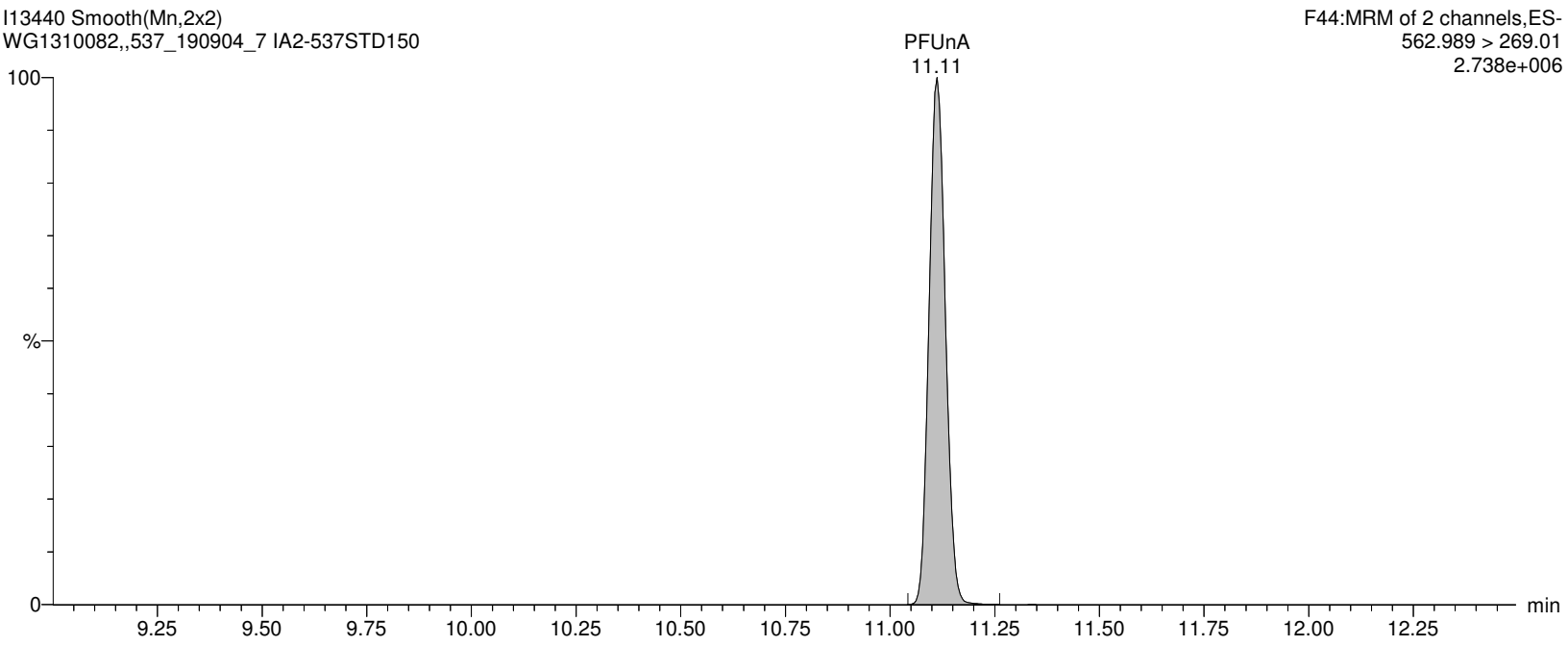

all concentration units in (ng/mL)

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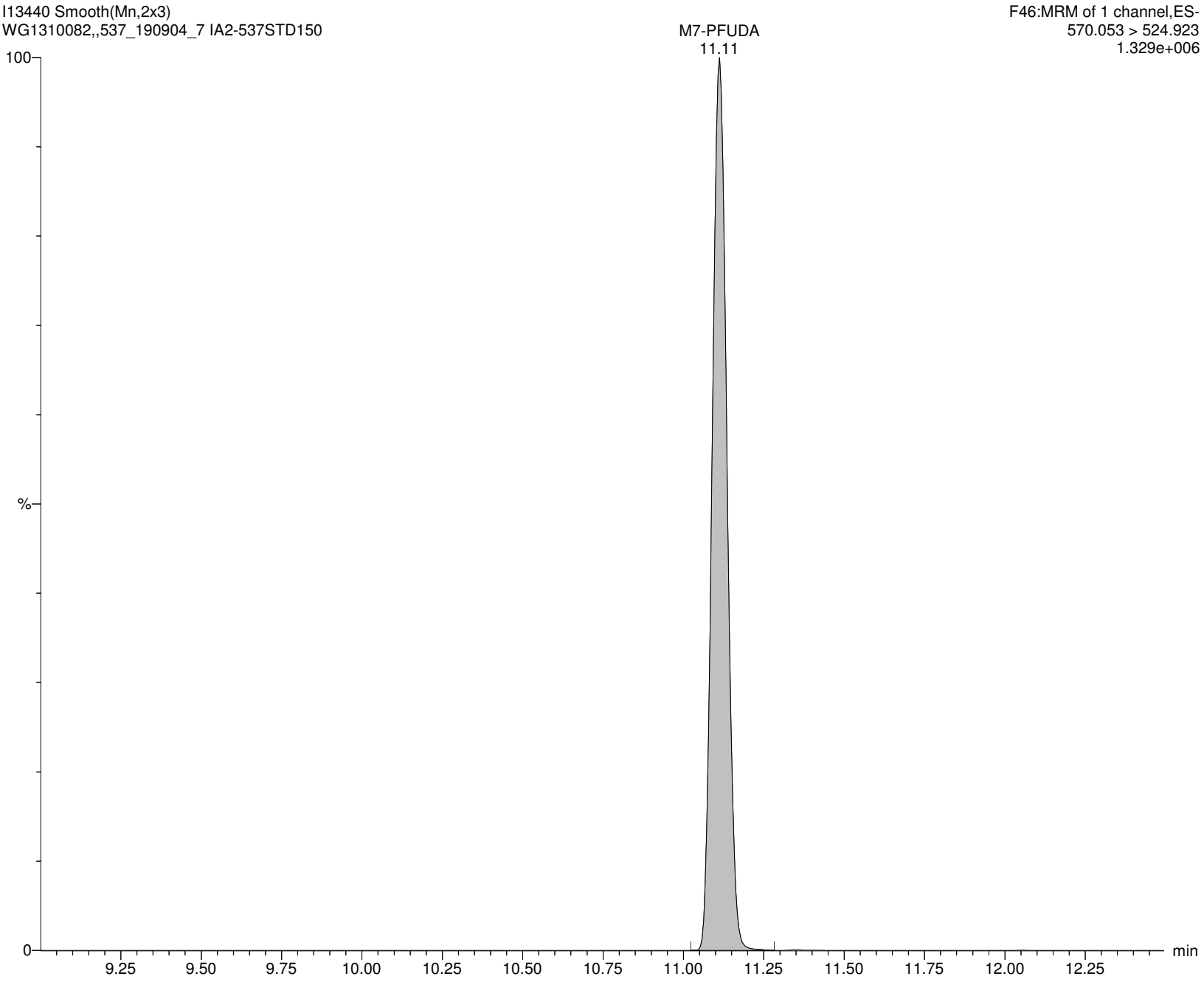
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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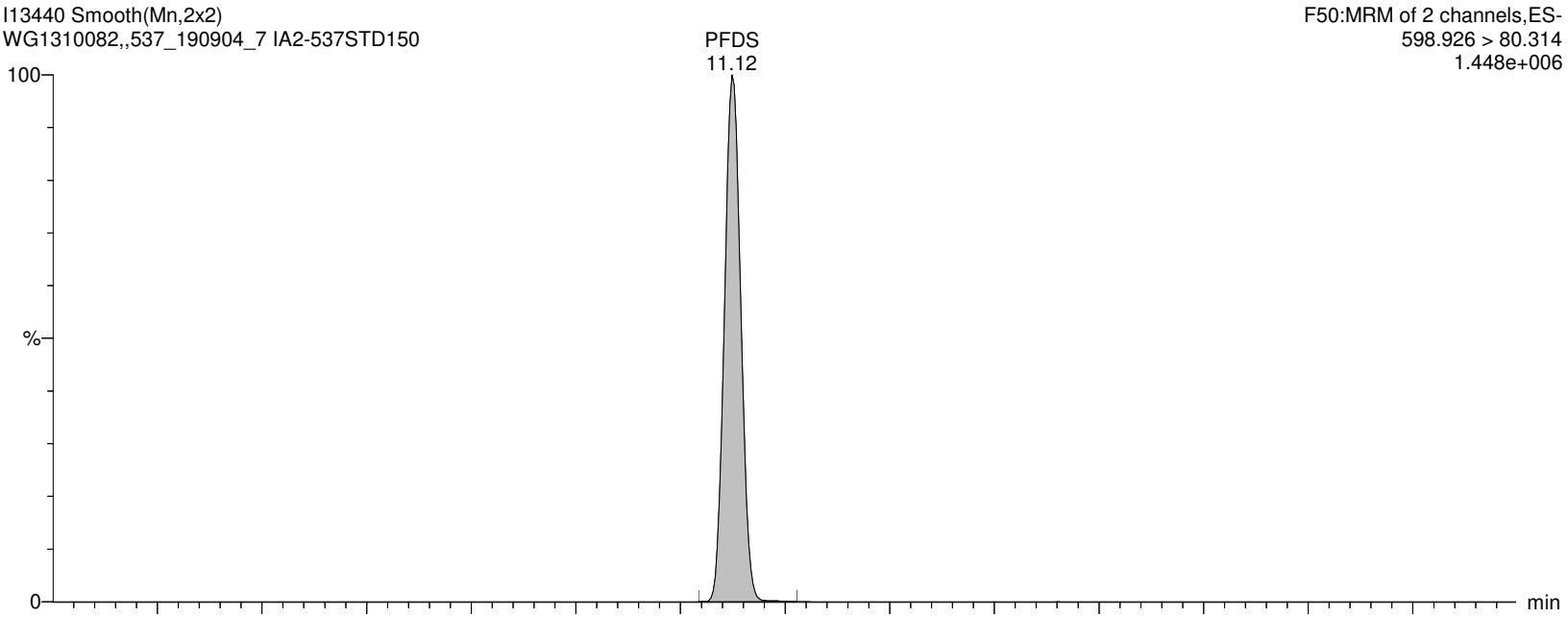

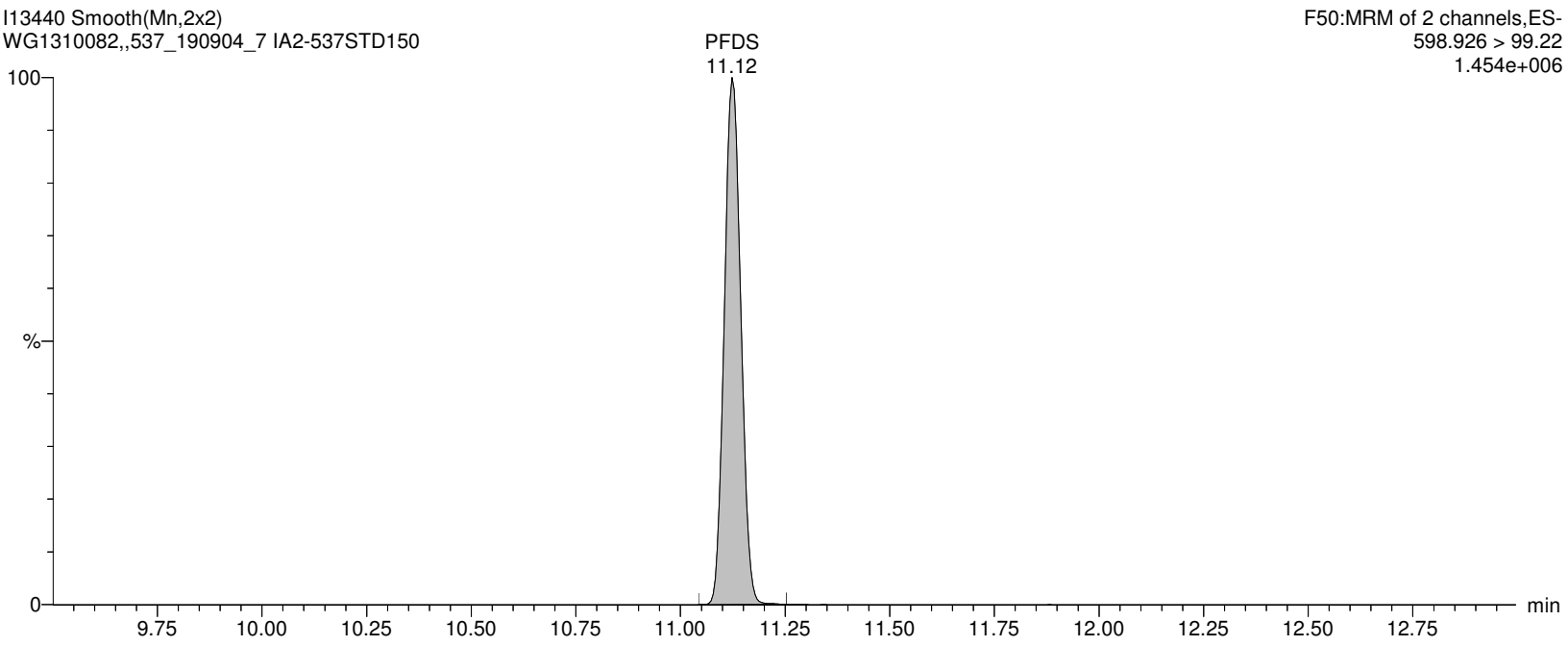

all concentration units in (ng/mL)

Alpha Analytical Inc.
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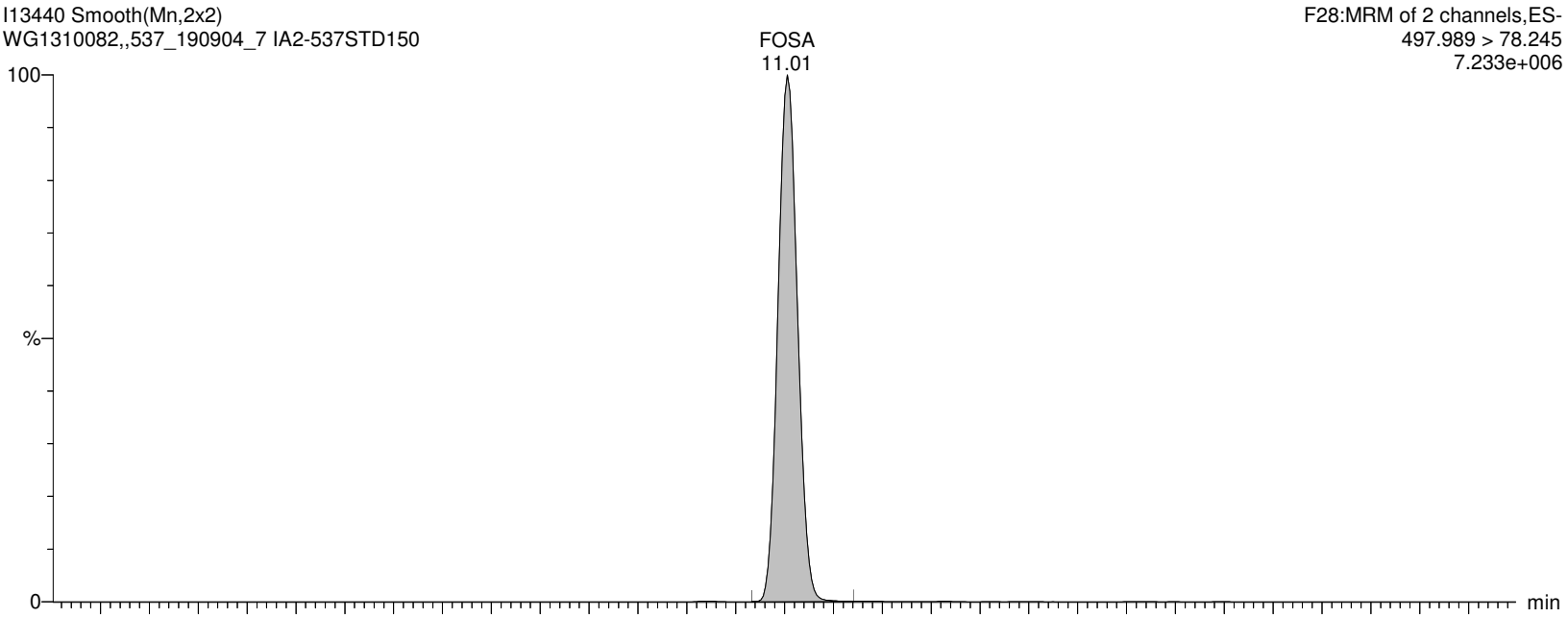

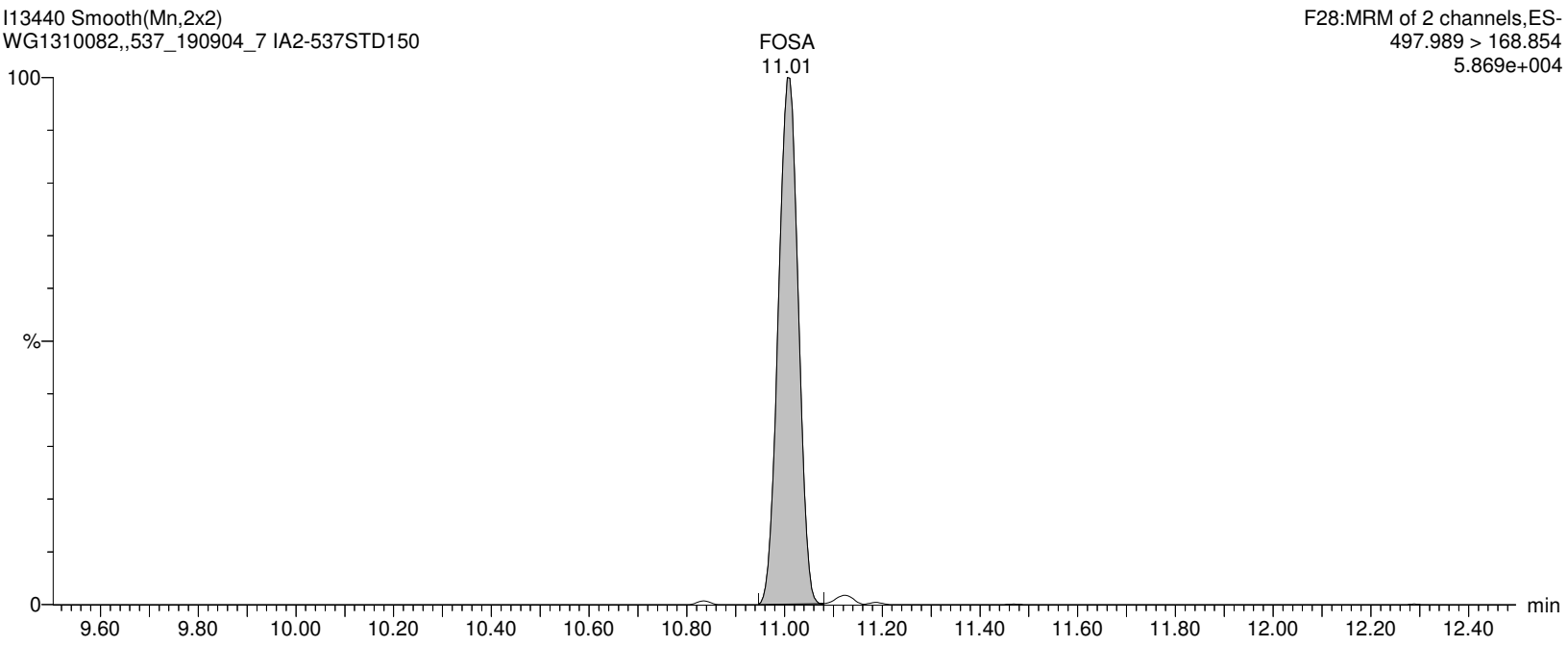

all concentration units in (ng/mL)

Alpha Analytical Inc.
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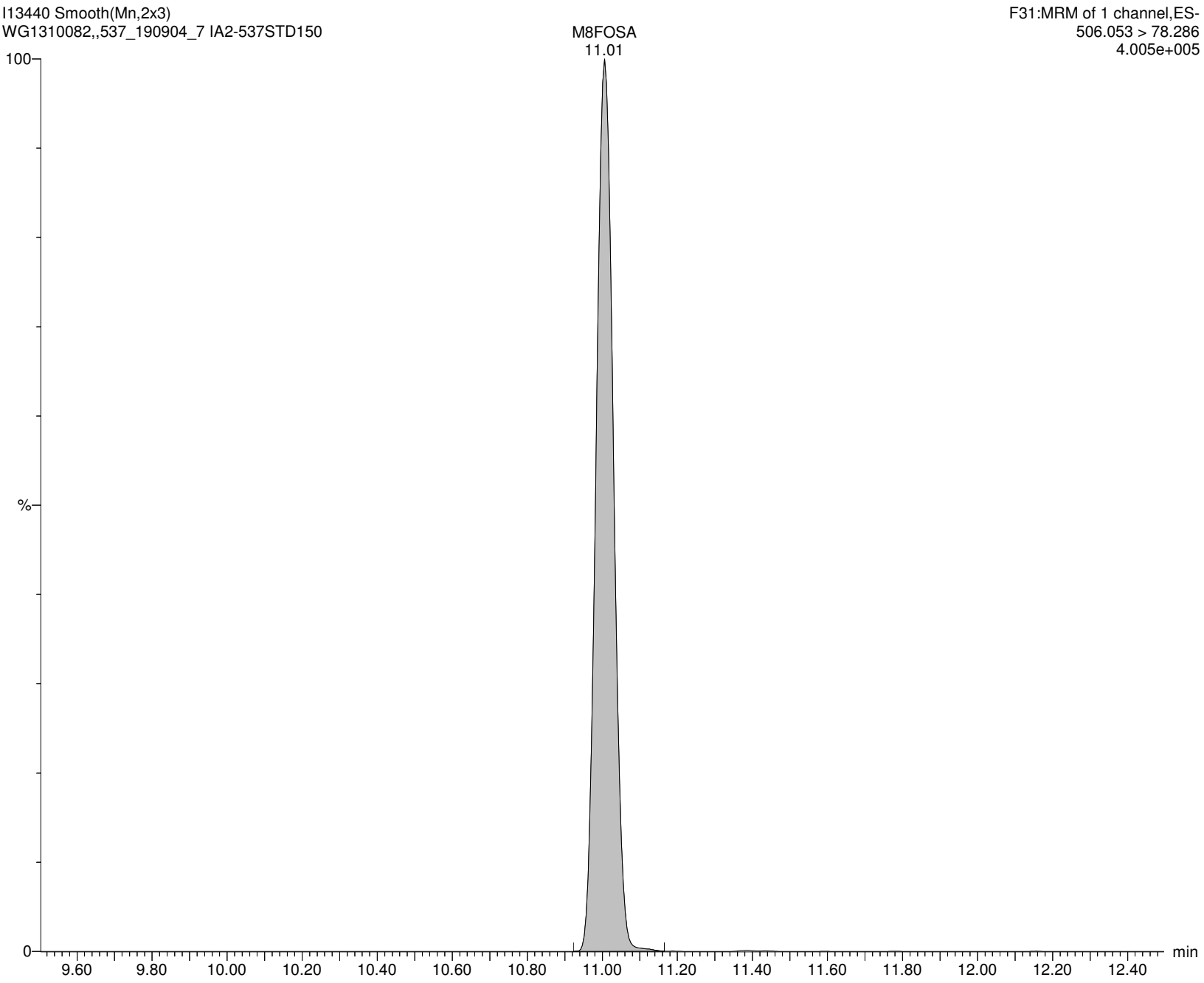

all concentration units in (ng/mL)

Alpha Analytical Inc.
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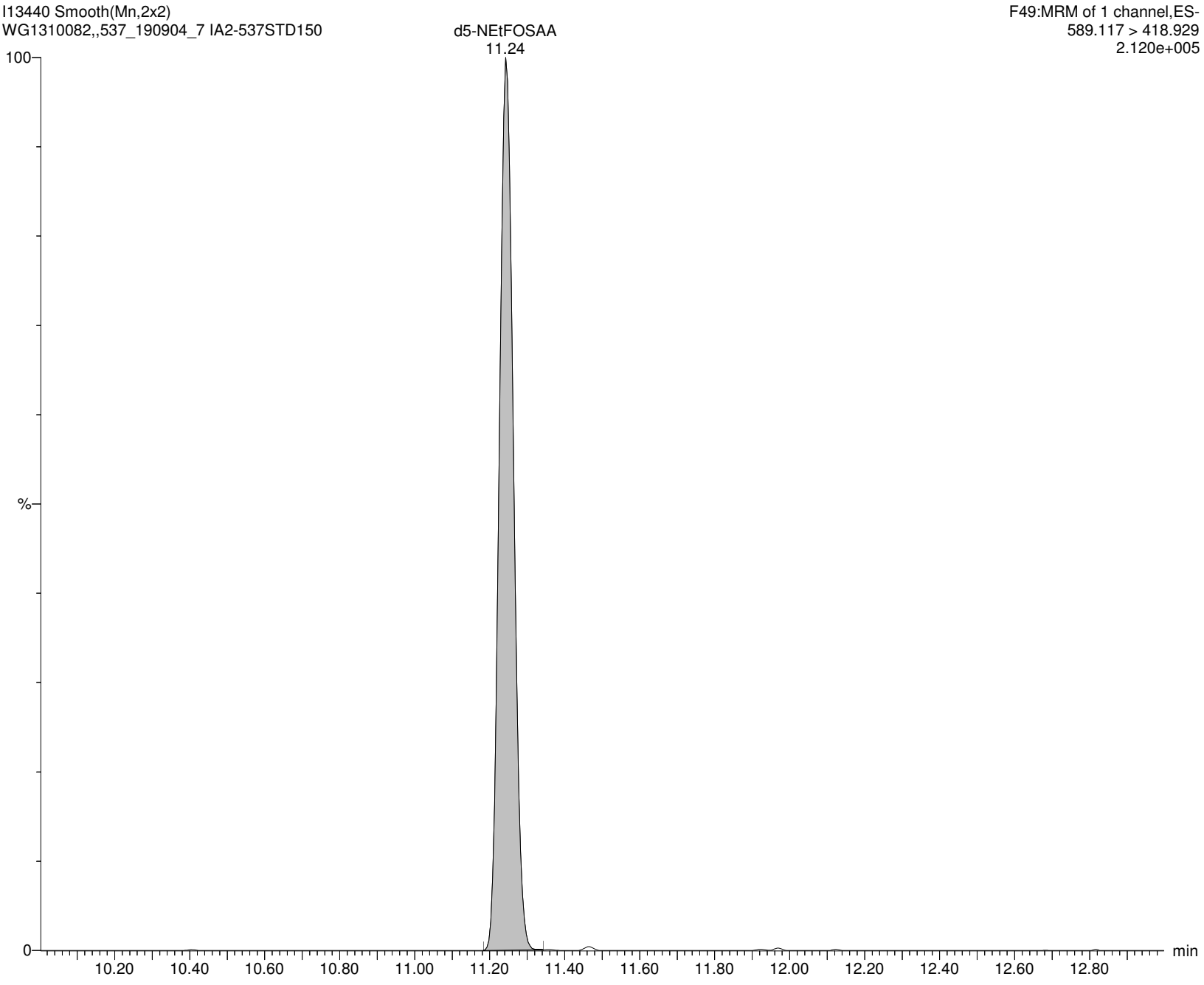

all concentration units in (ng/mL)

Alpha Analytical Inc.
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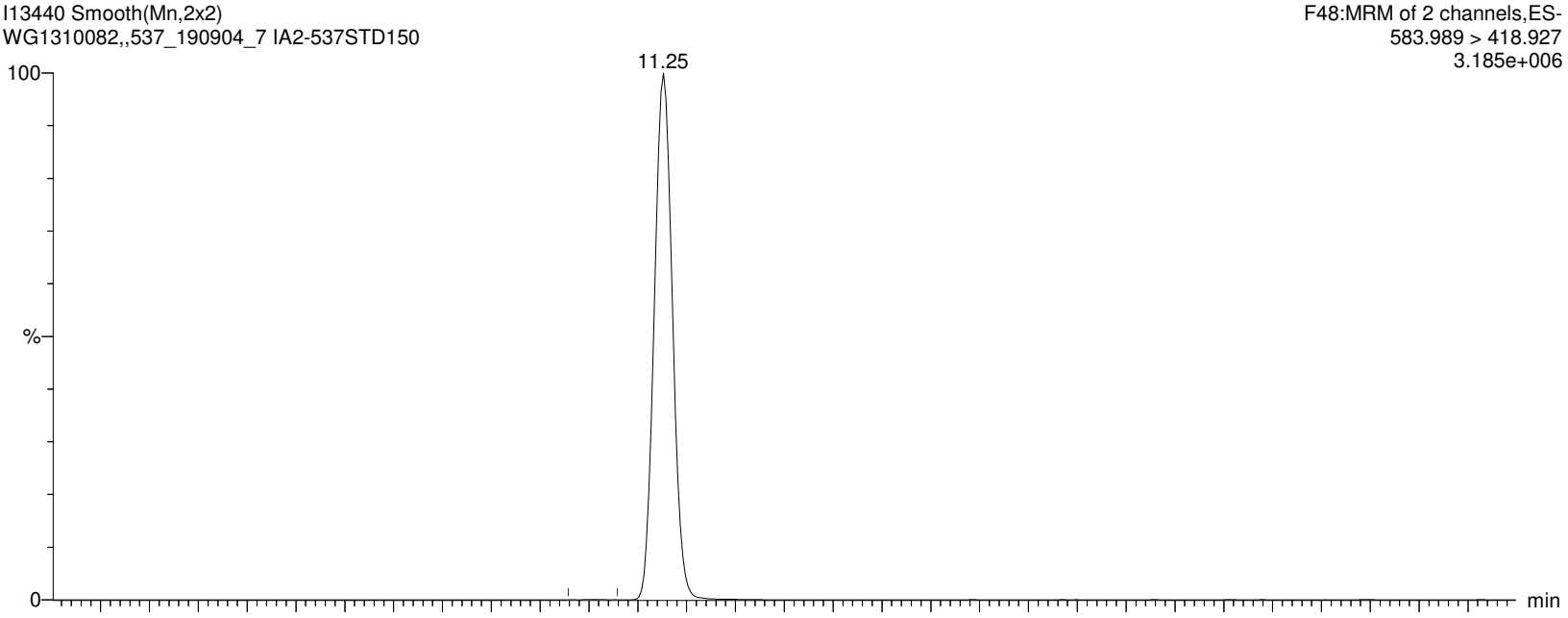

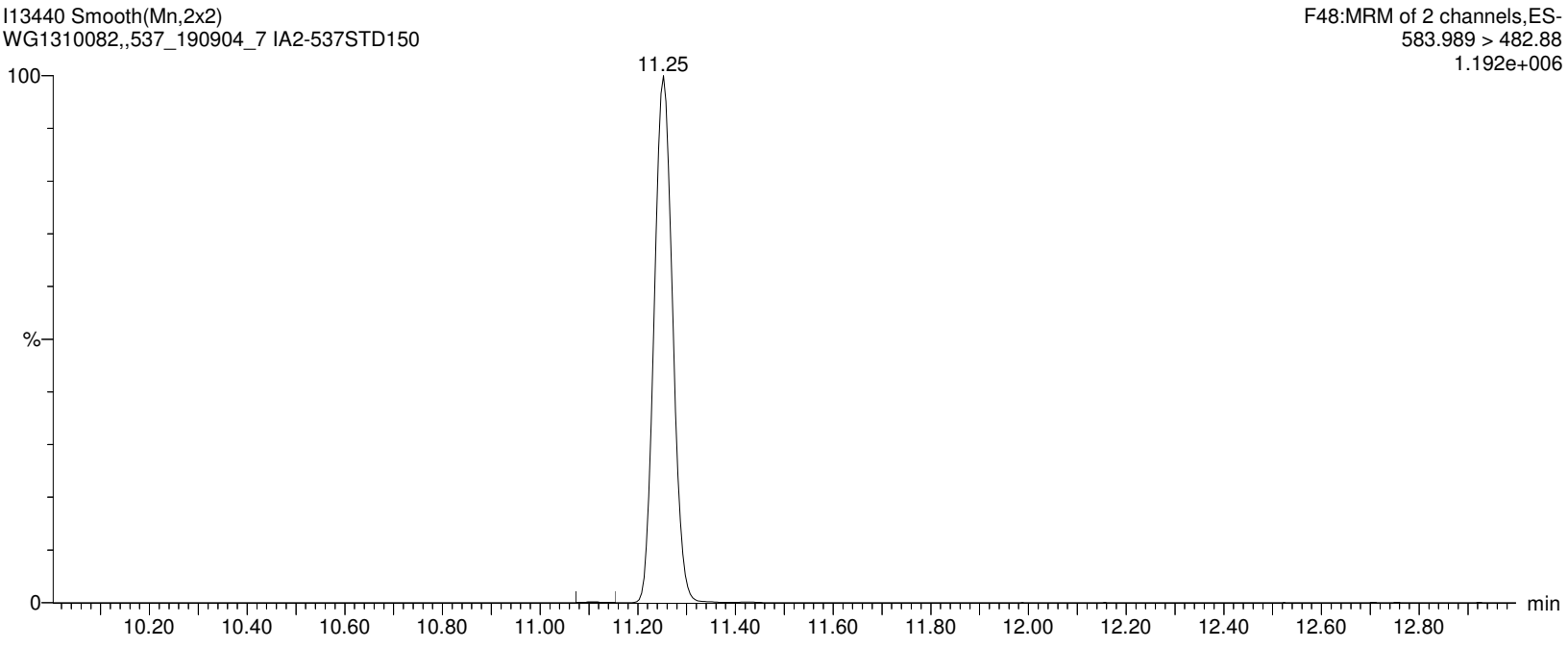

all concentration units in (ng/mL)

Alpha Analytical Inc.
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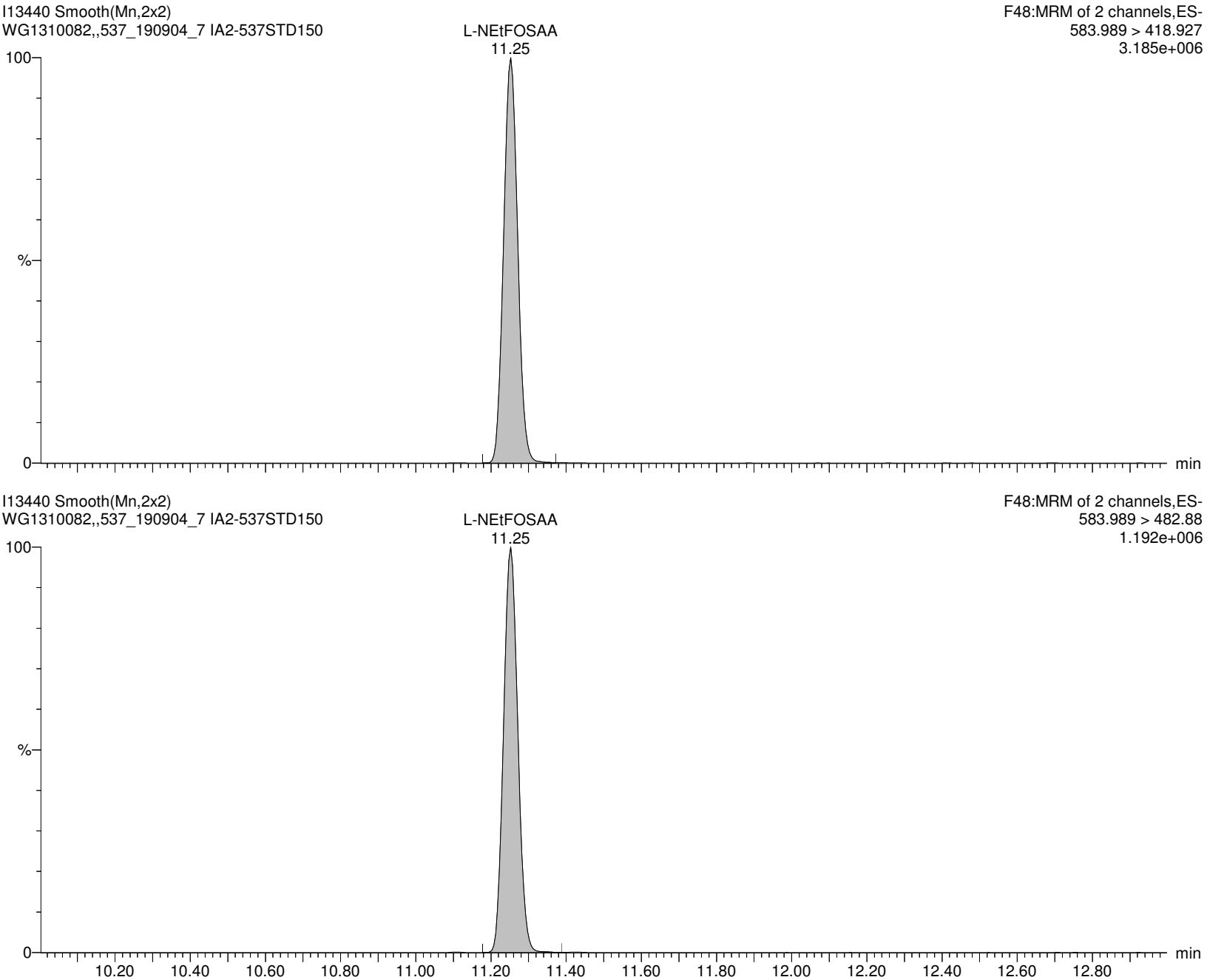
L-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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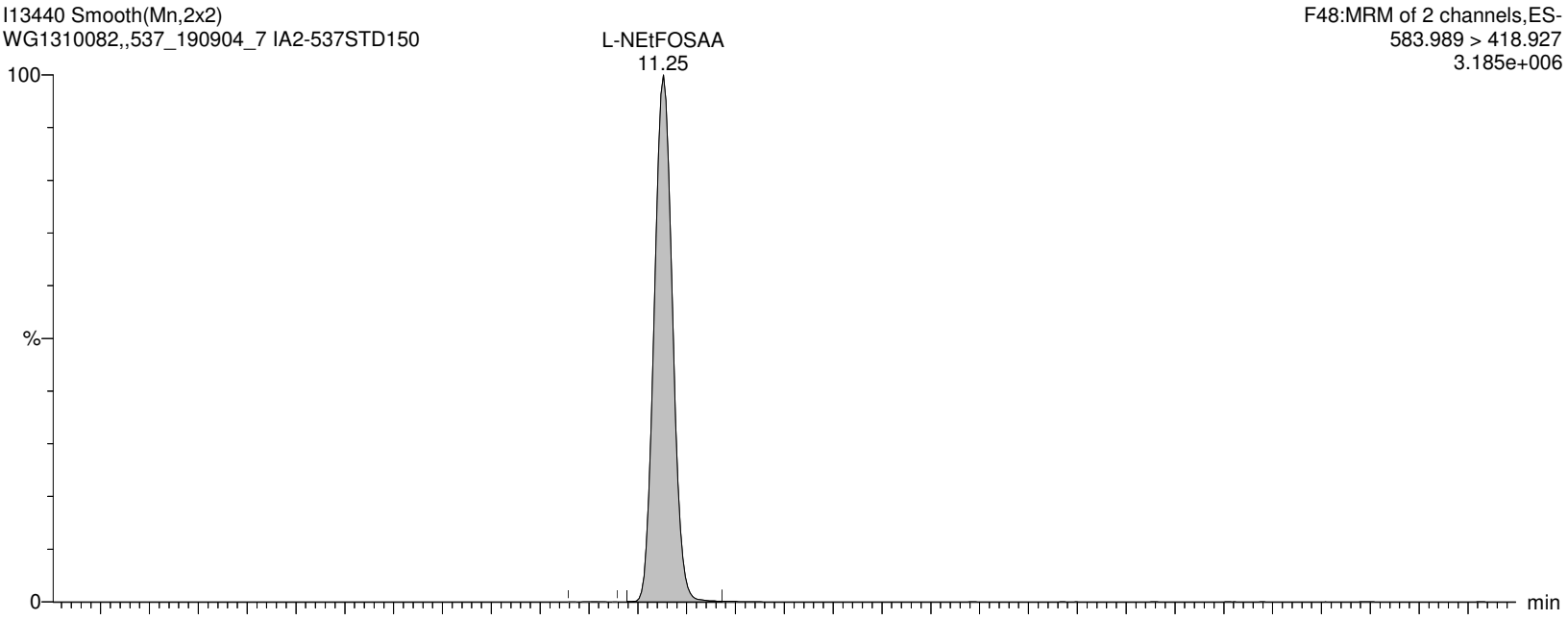

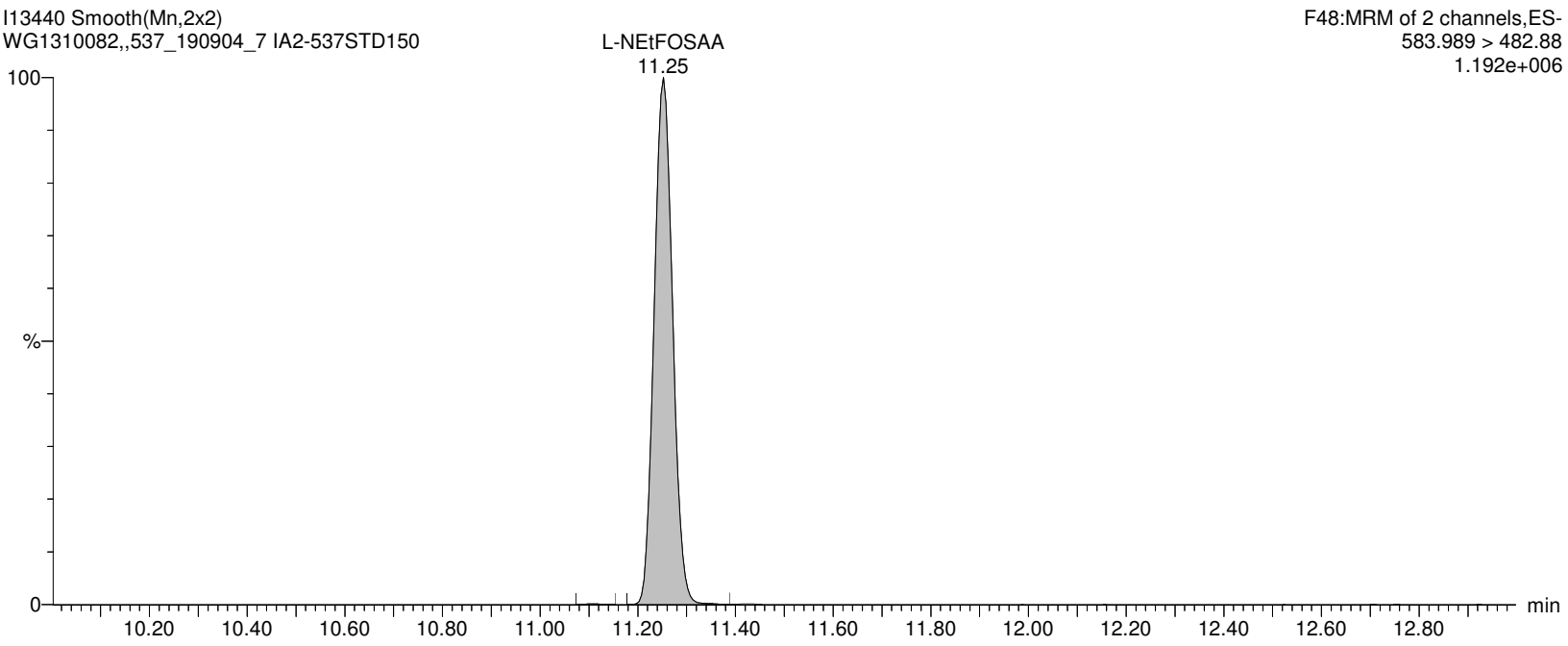

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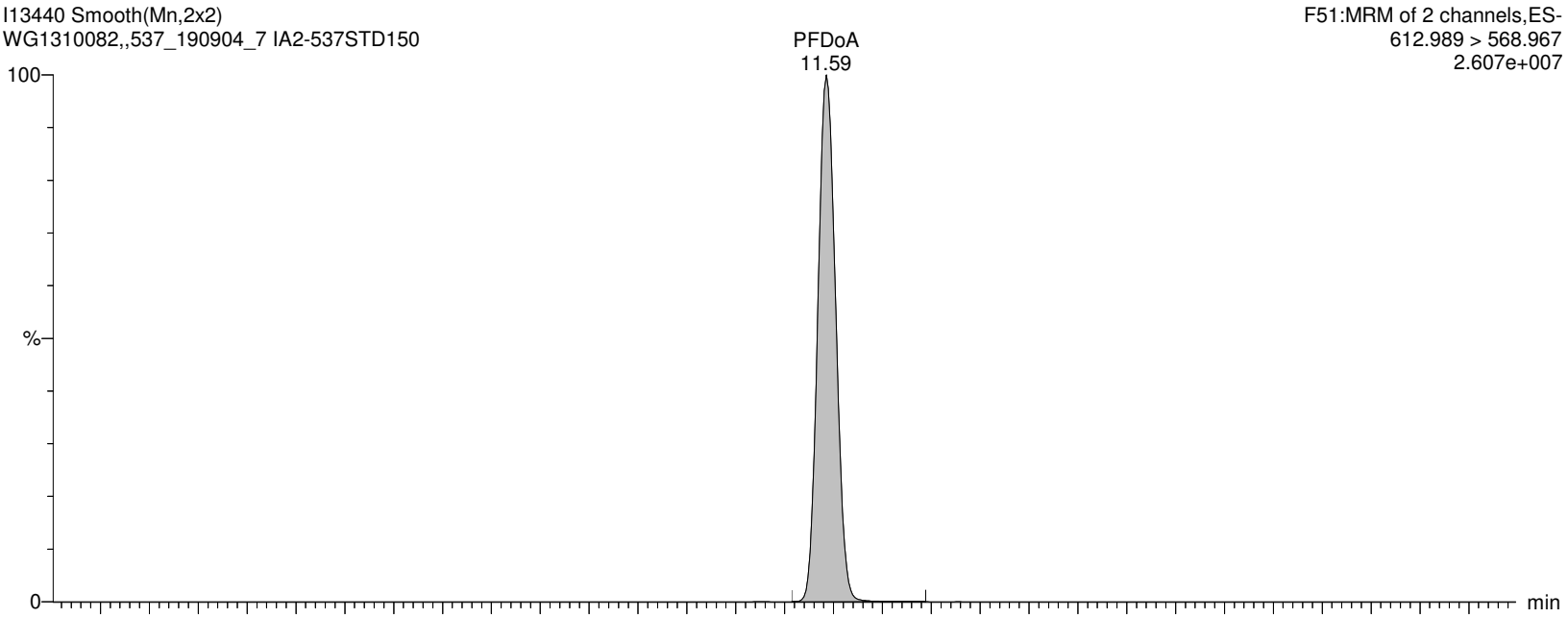

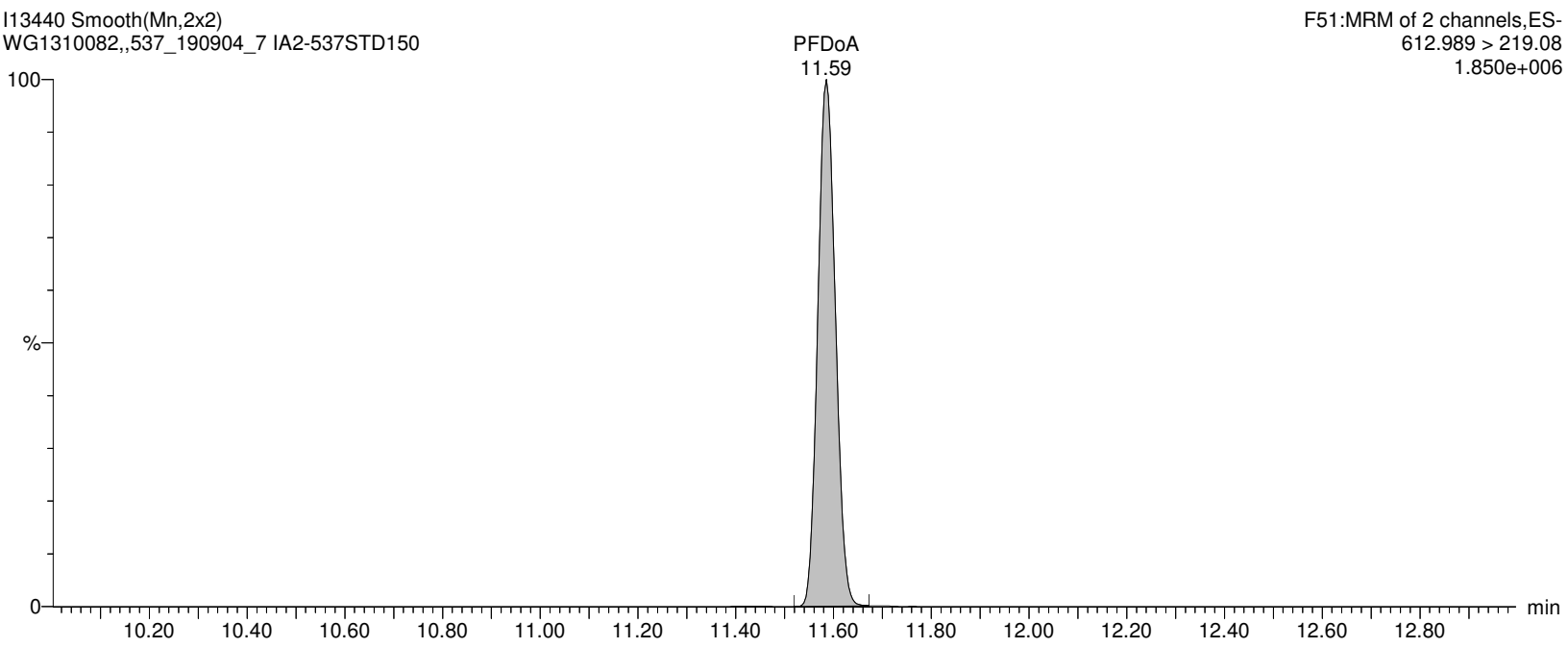

all concentration units in (ng/mL)

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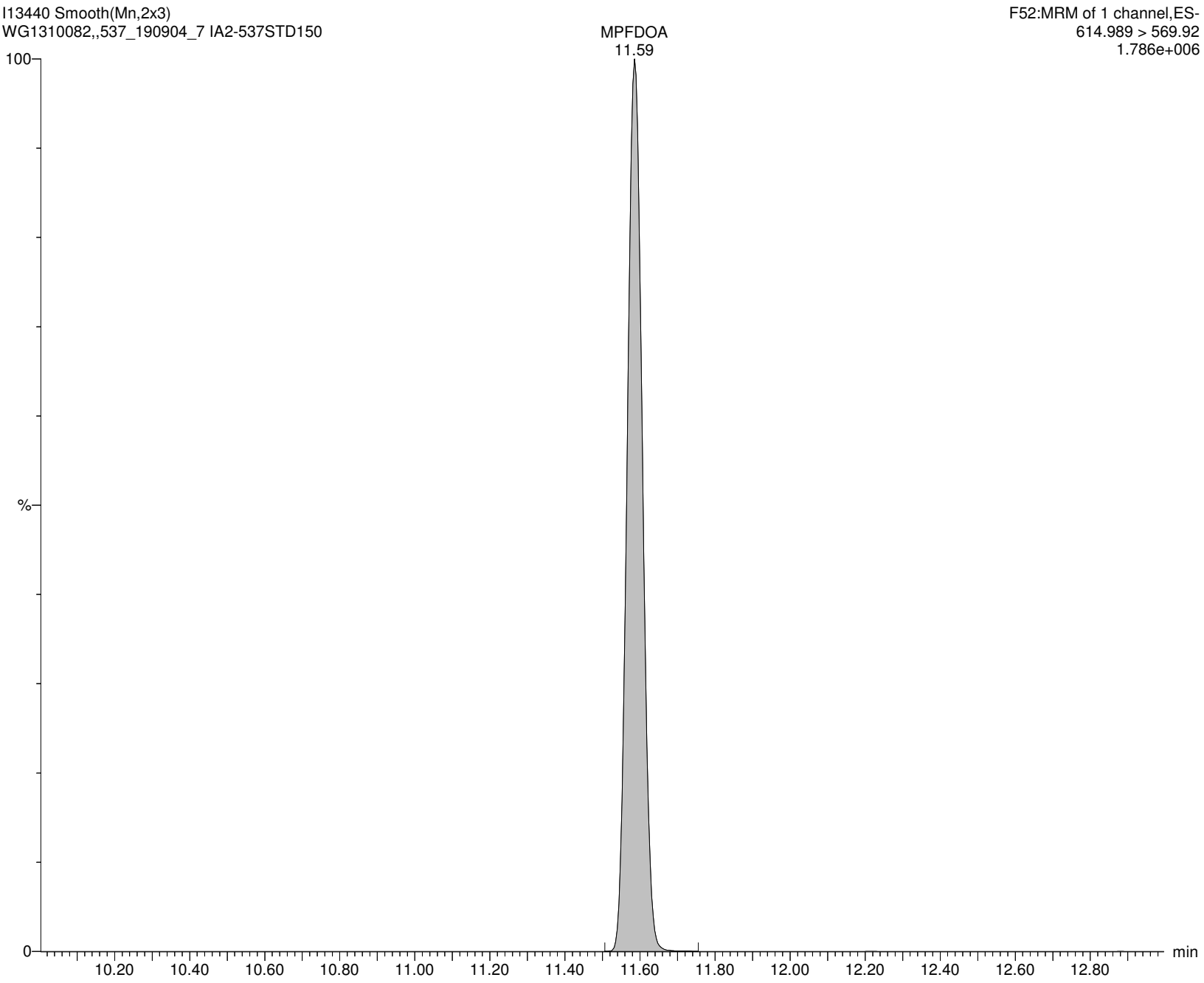

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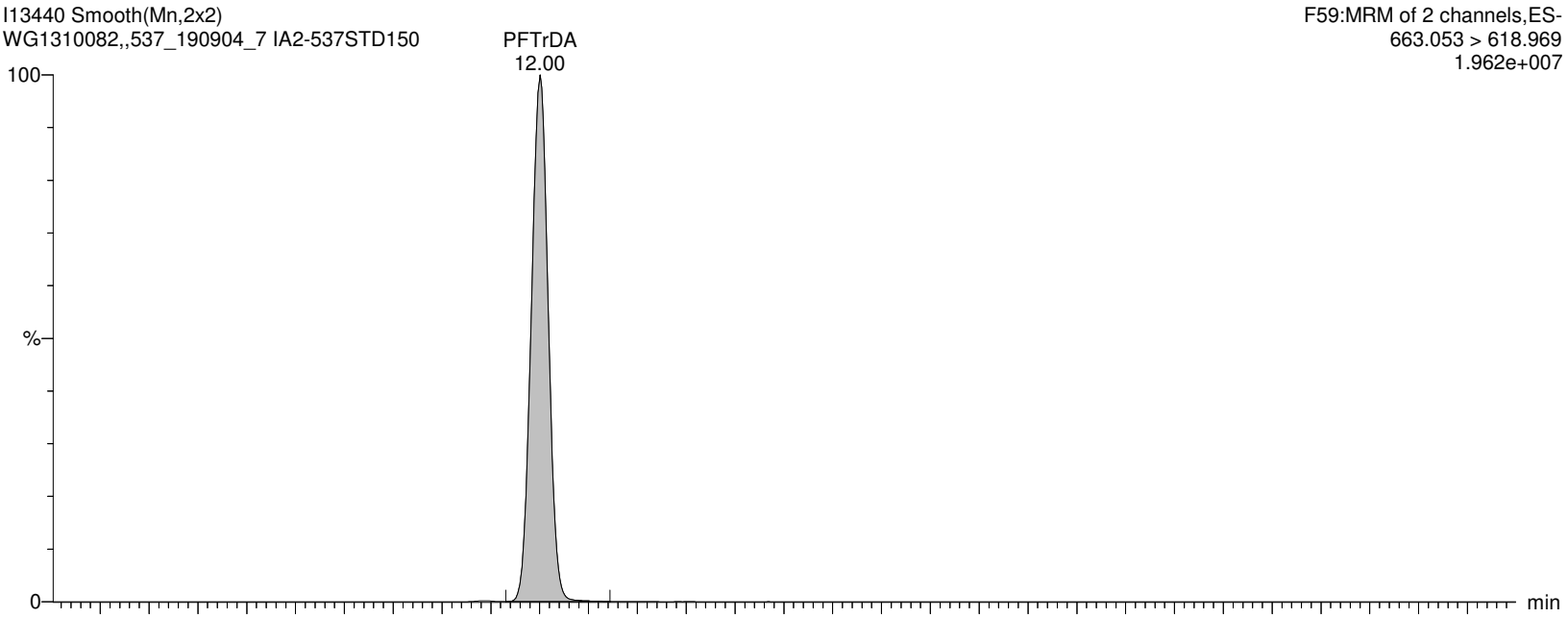
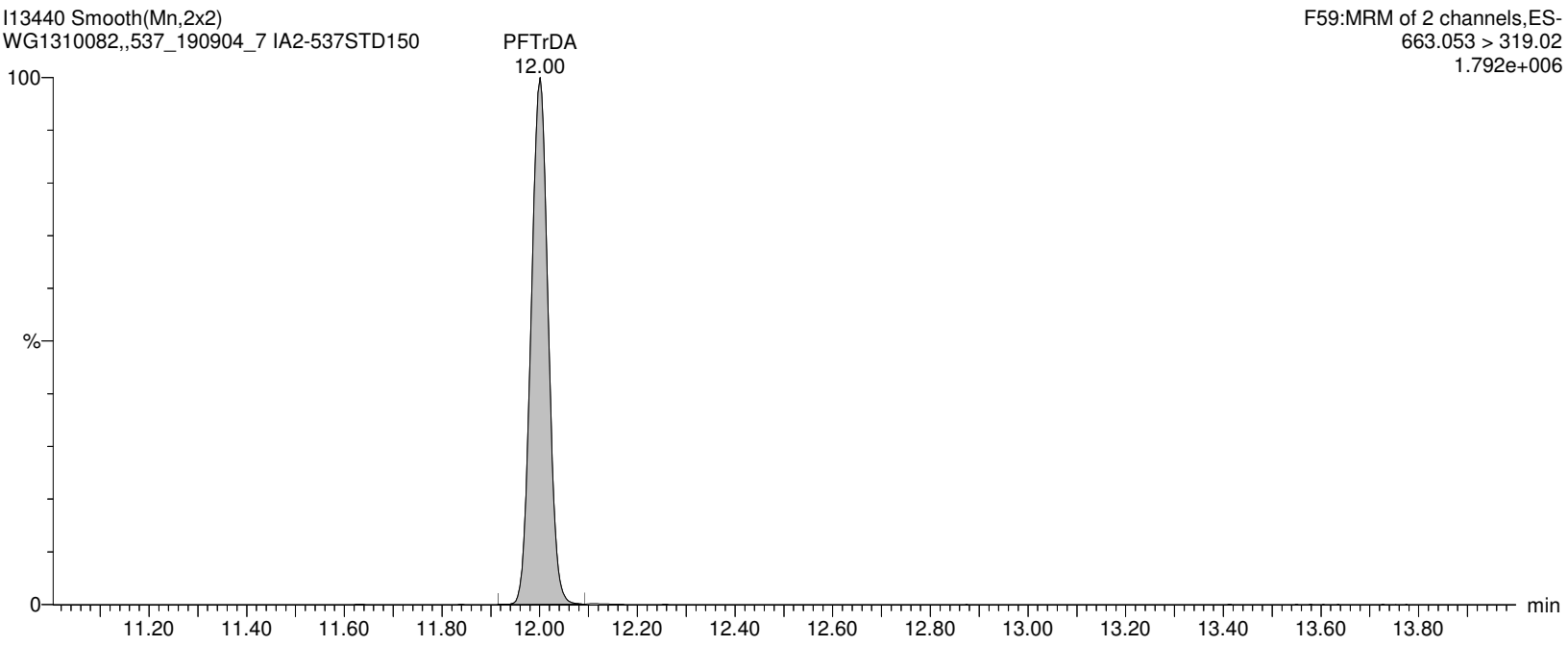
PFTrDA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

Name: I13440
ID: IA2-537STD150
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
User: LCMS02:JW
Vial: 1:A,8
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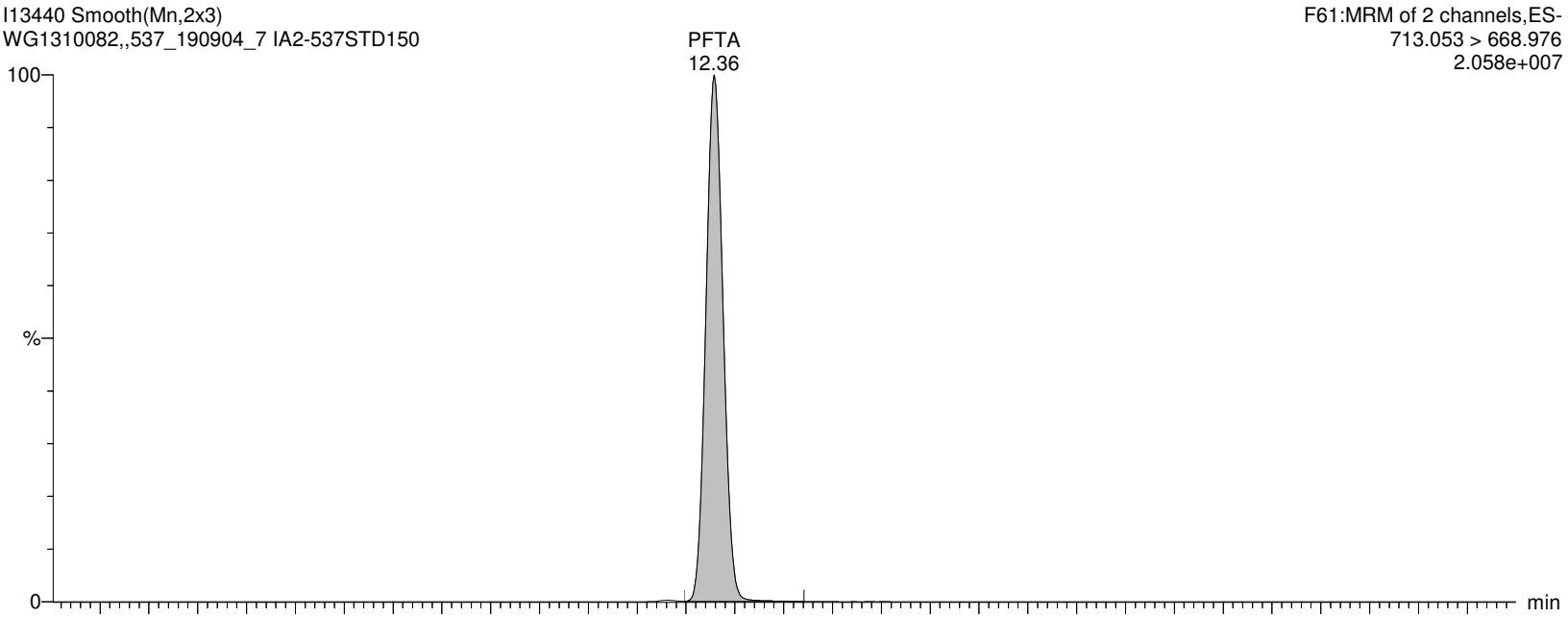

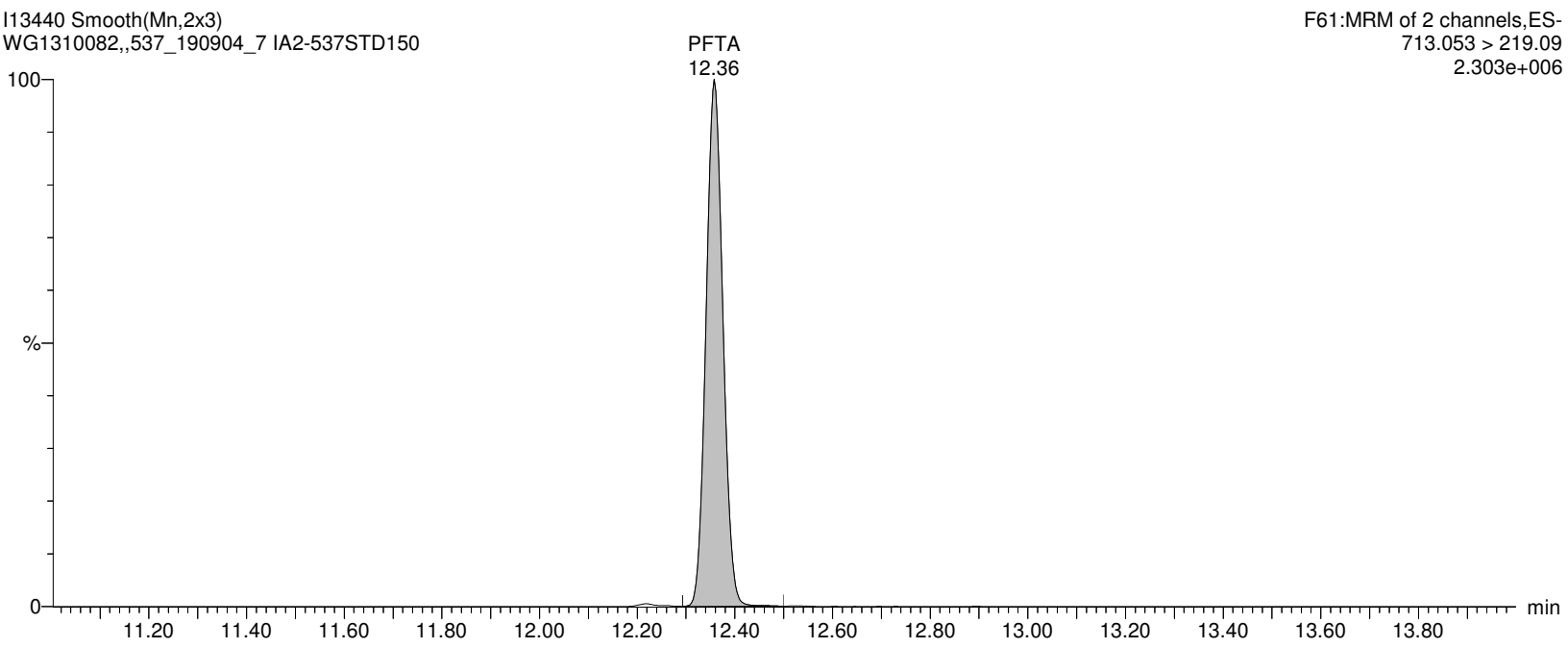

all concentration units in (ng/mL)

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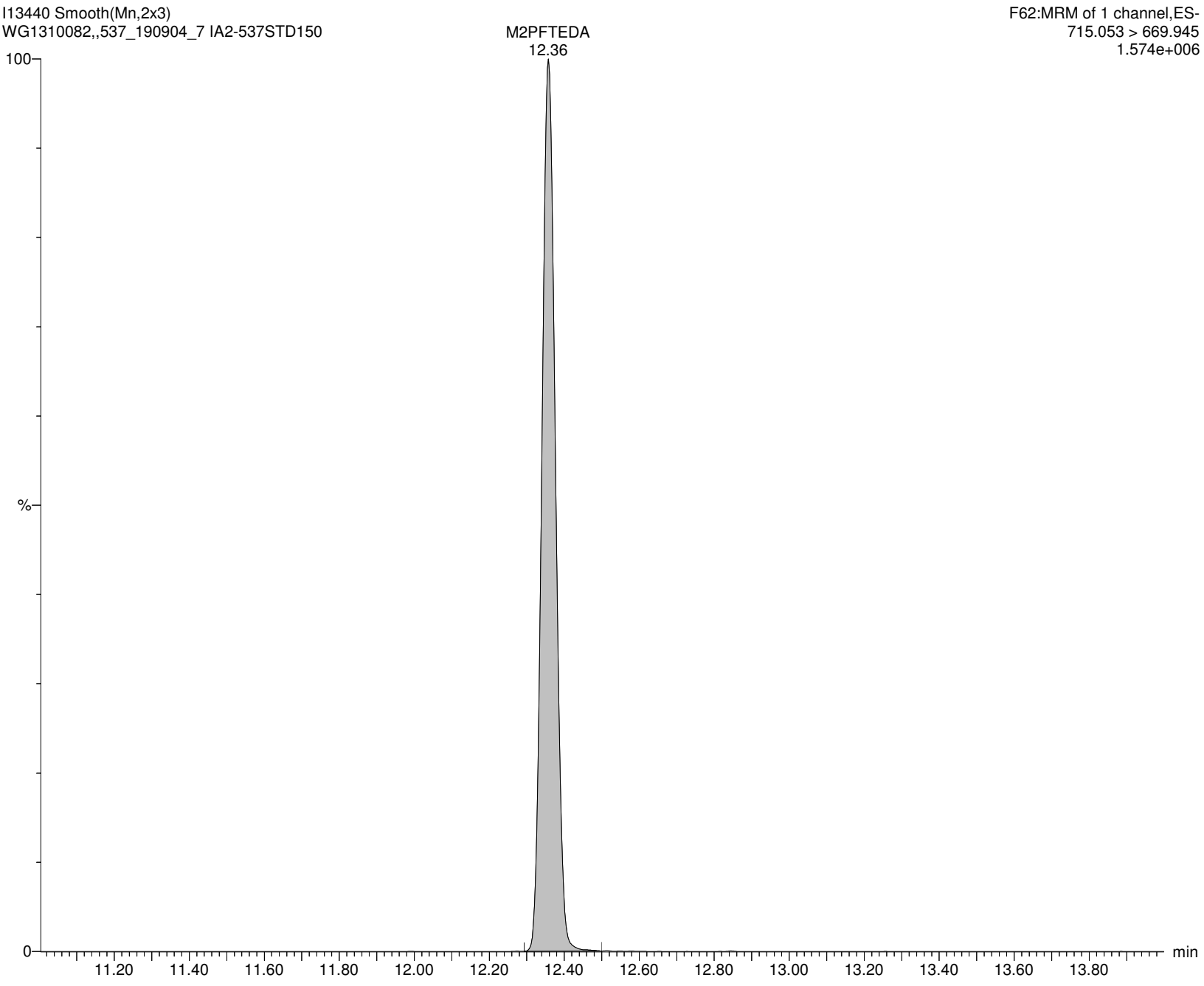

all concentration units in (ng/mL)

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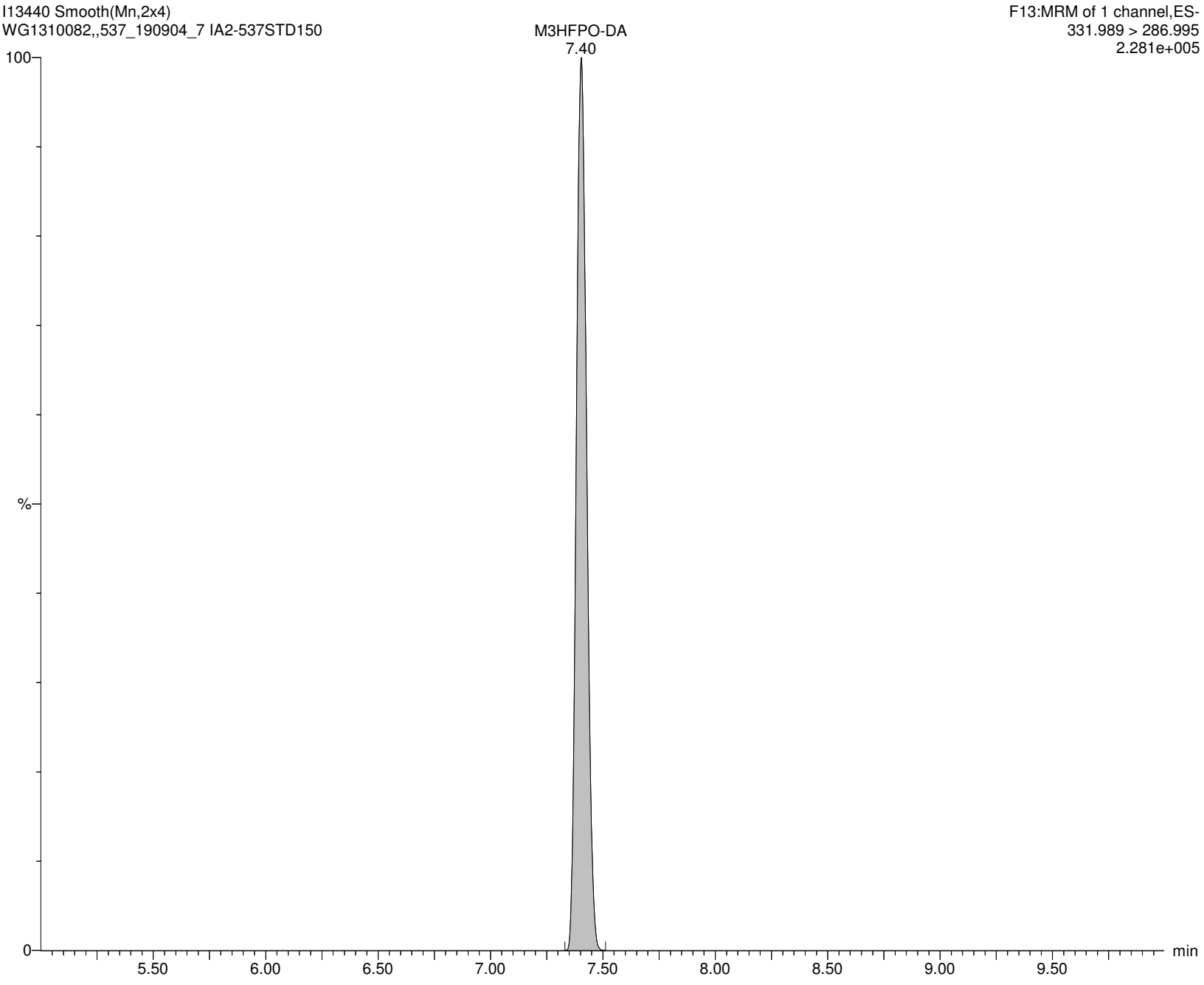

all concentration units in (ng/mL)

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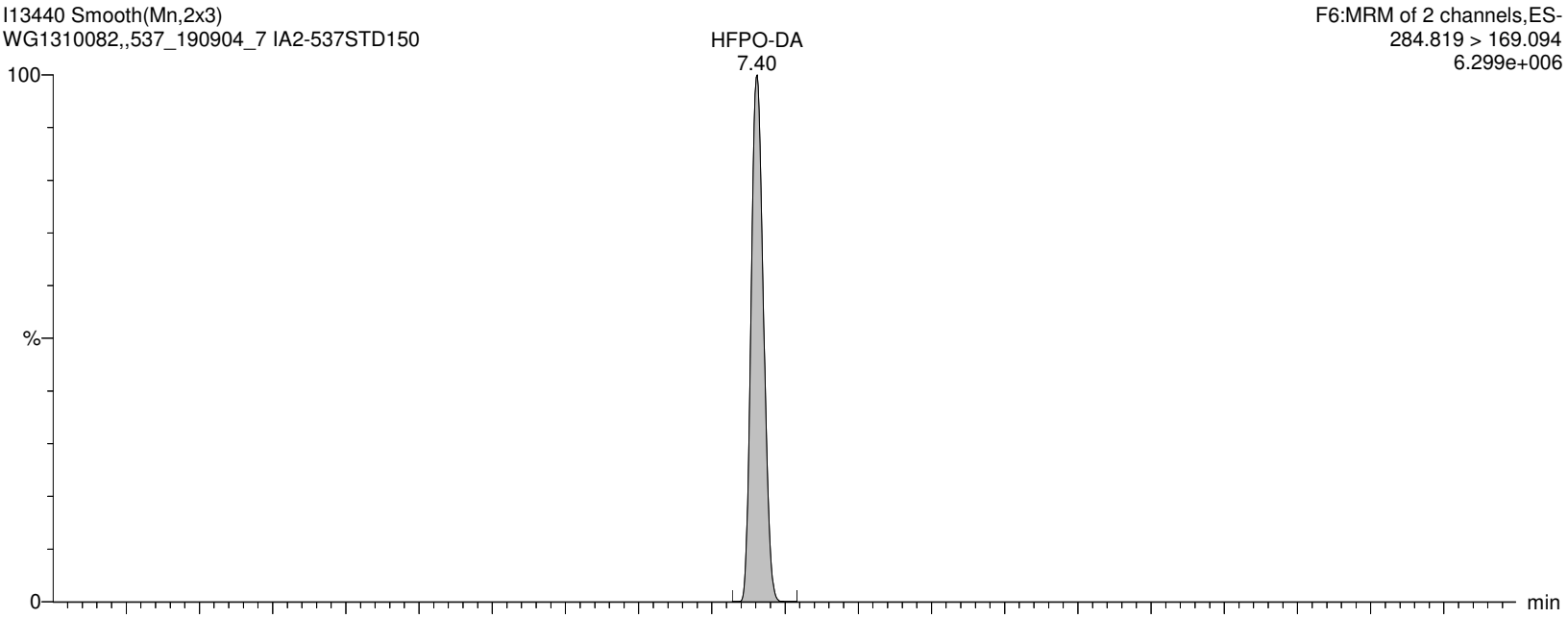

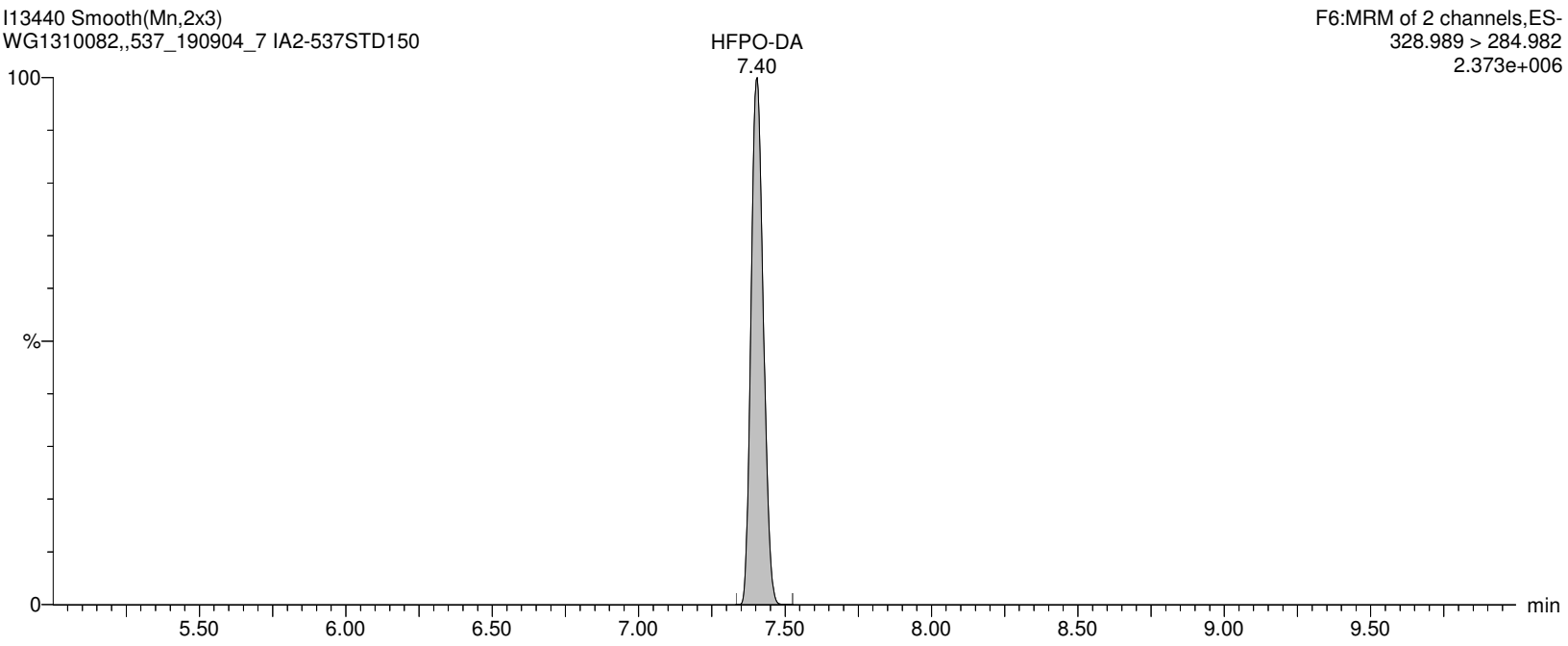

all concentration units in (ng/mL)

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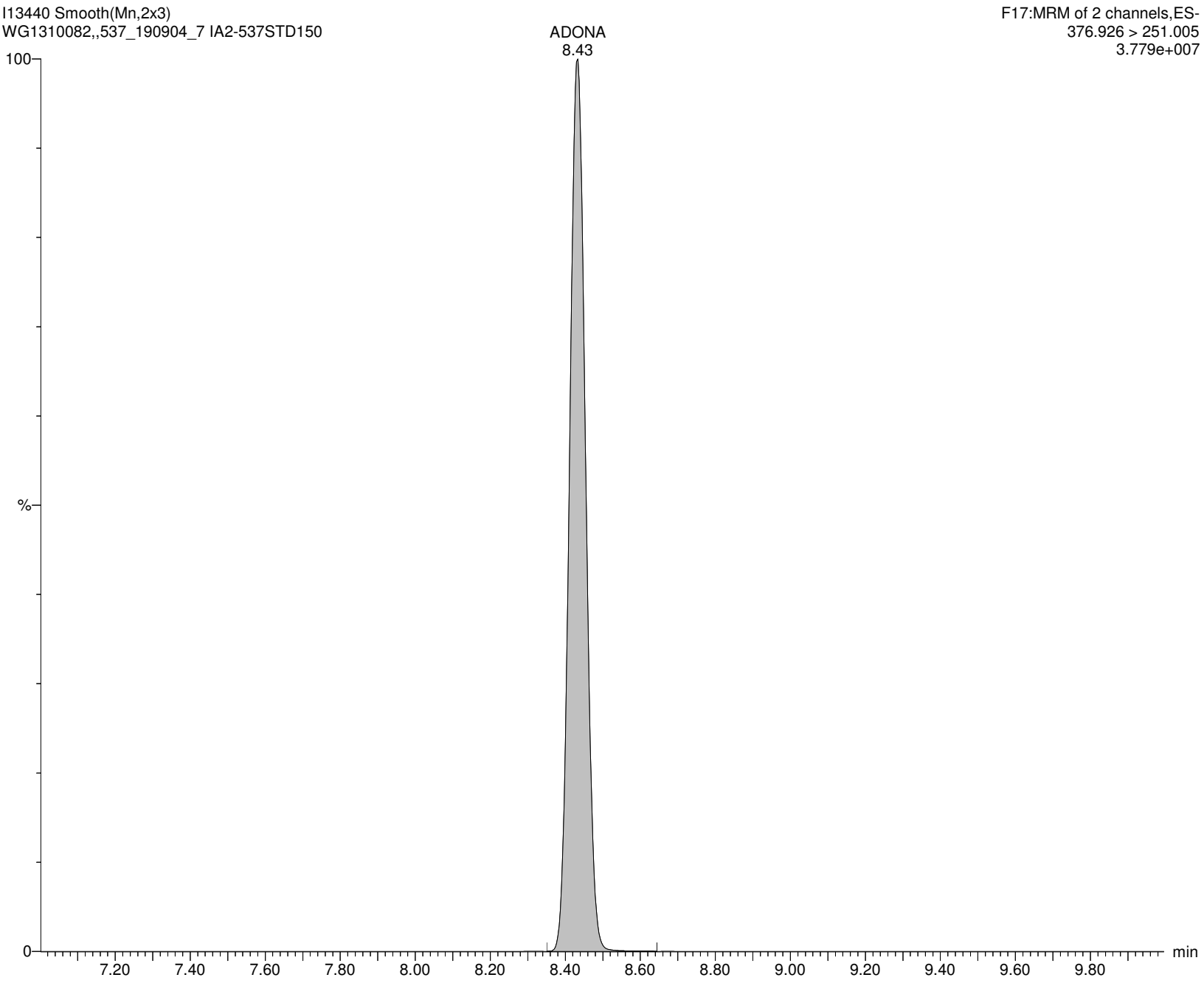

all concentration units in (ng/mL)

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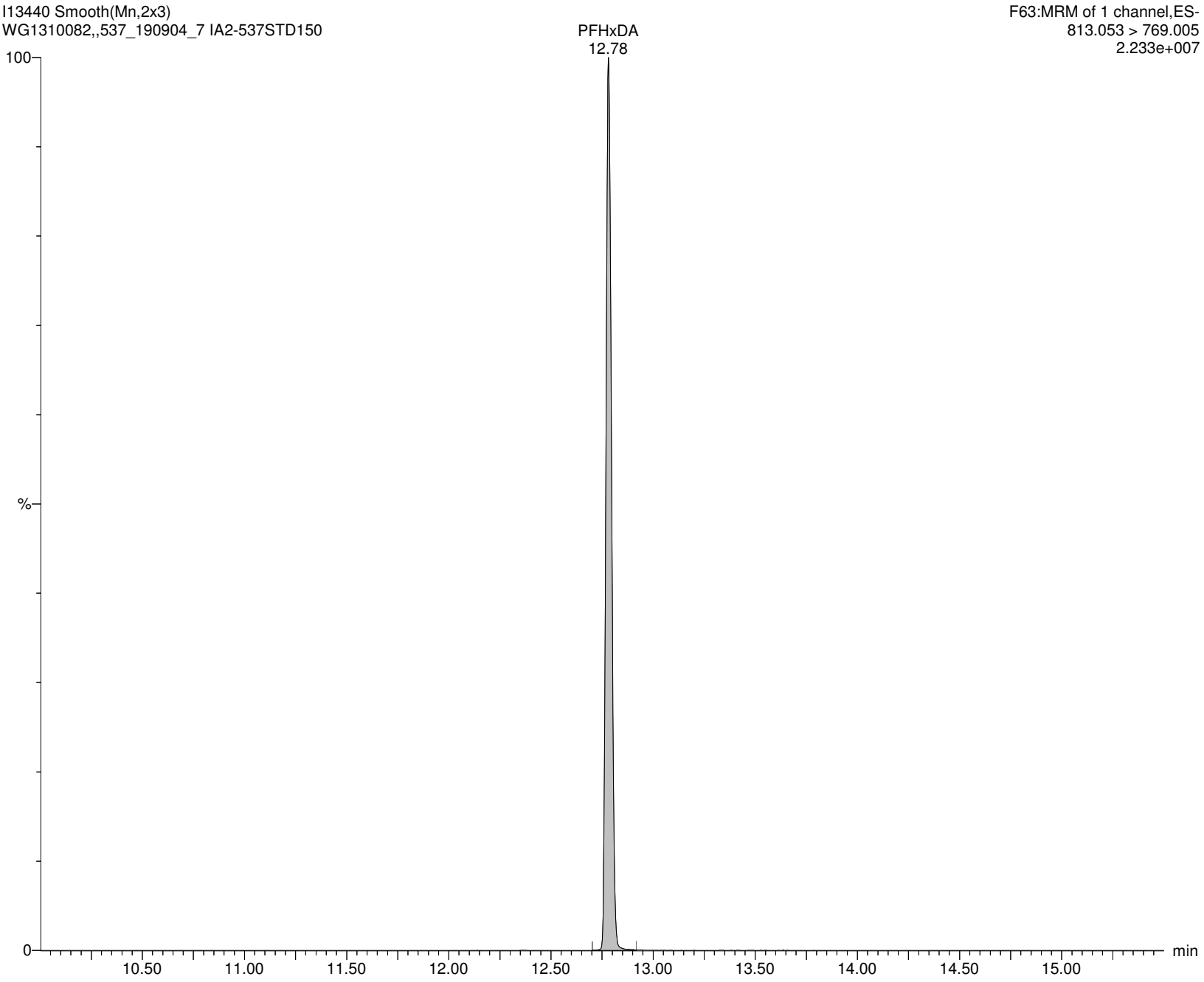

all concentration units in (ng/mL)

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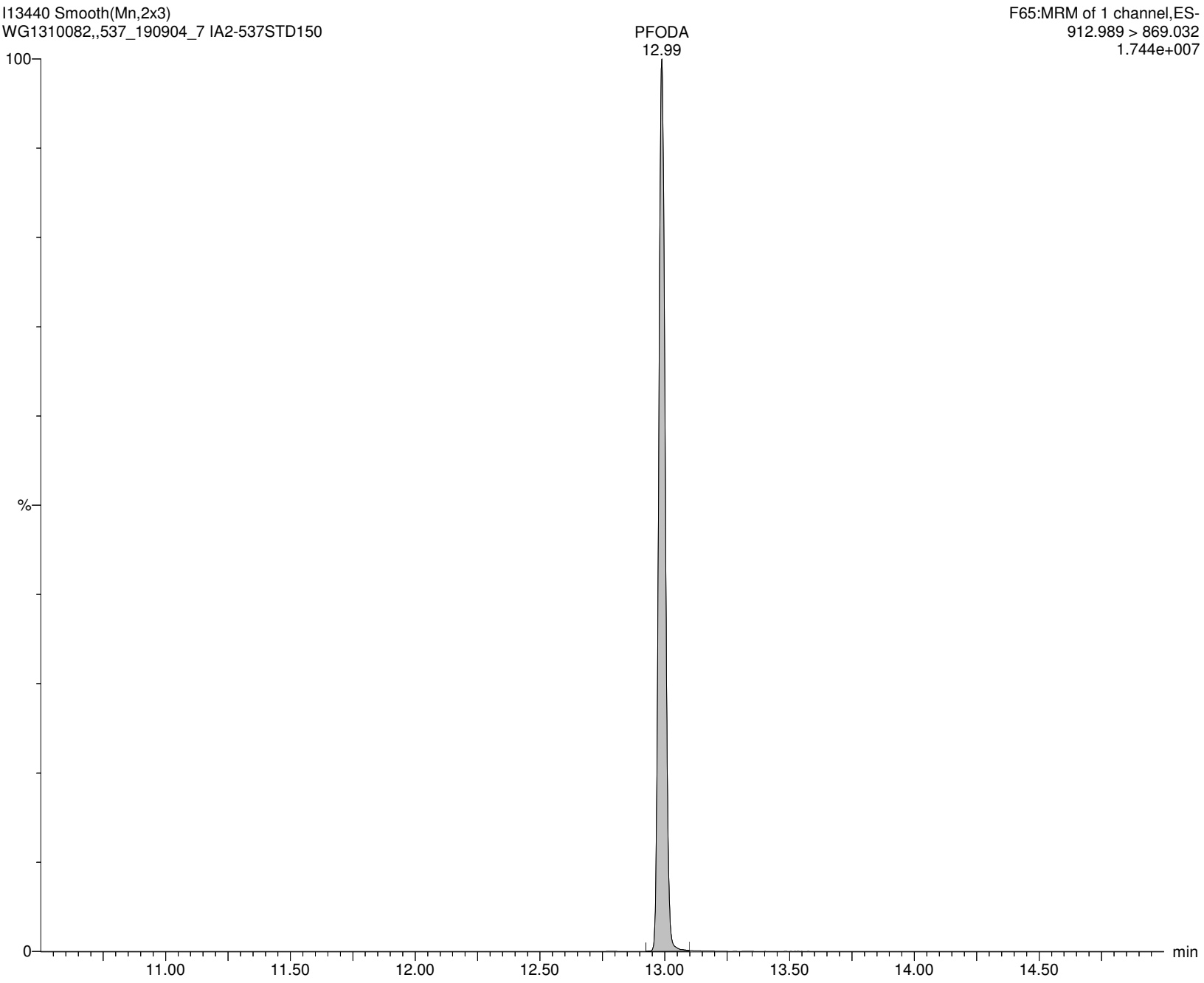

all concentration units in (ng/mL)

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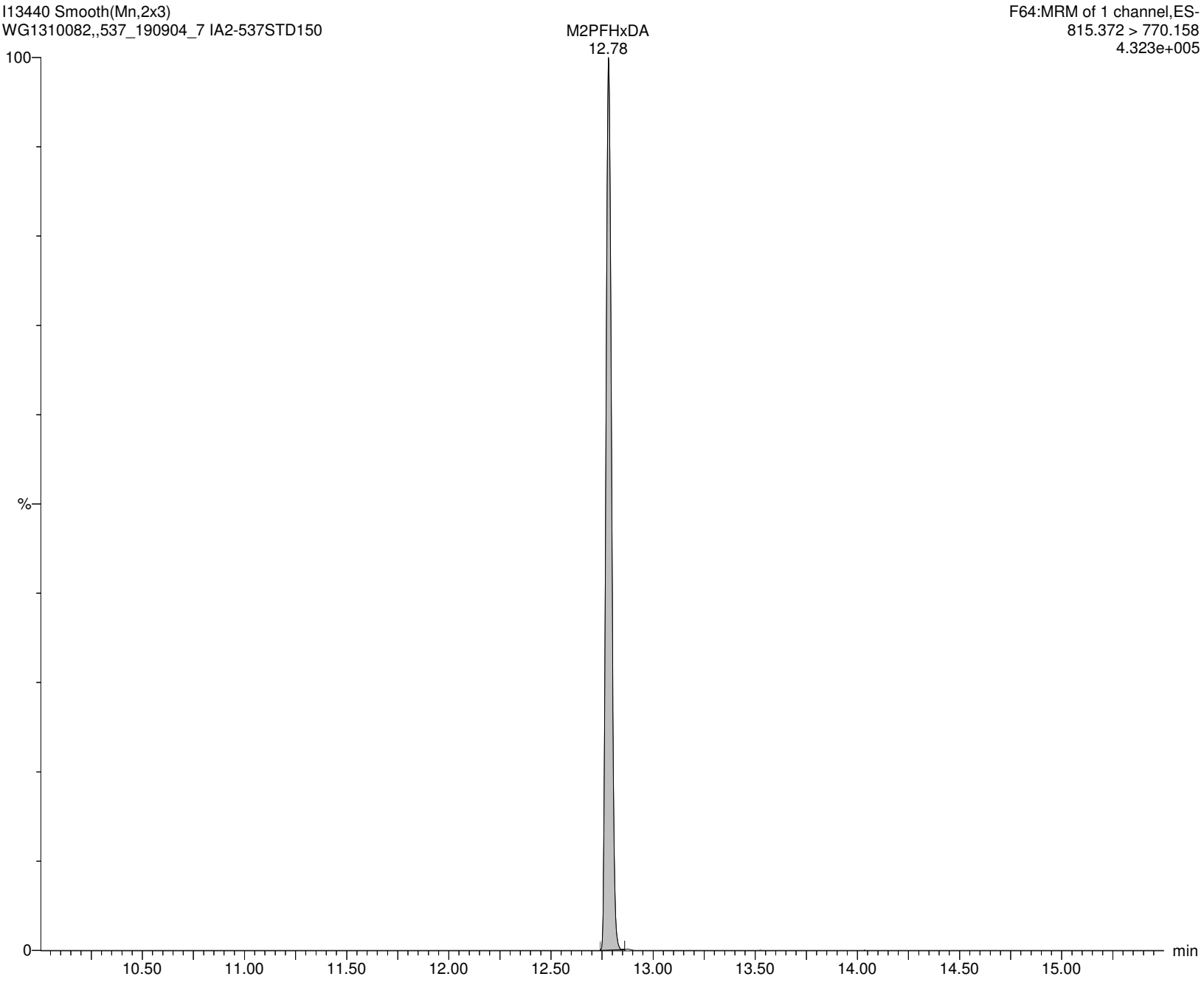

all concentration units in (ng/mL)

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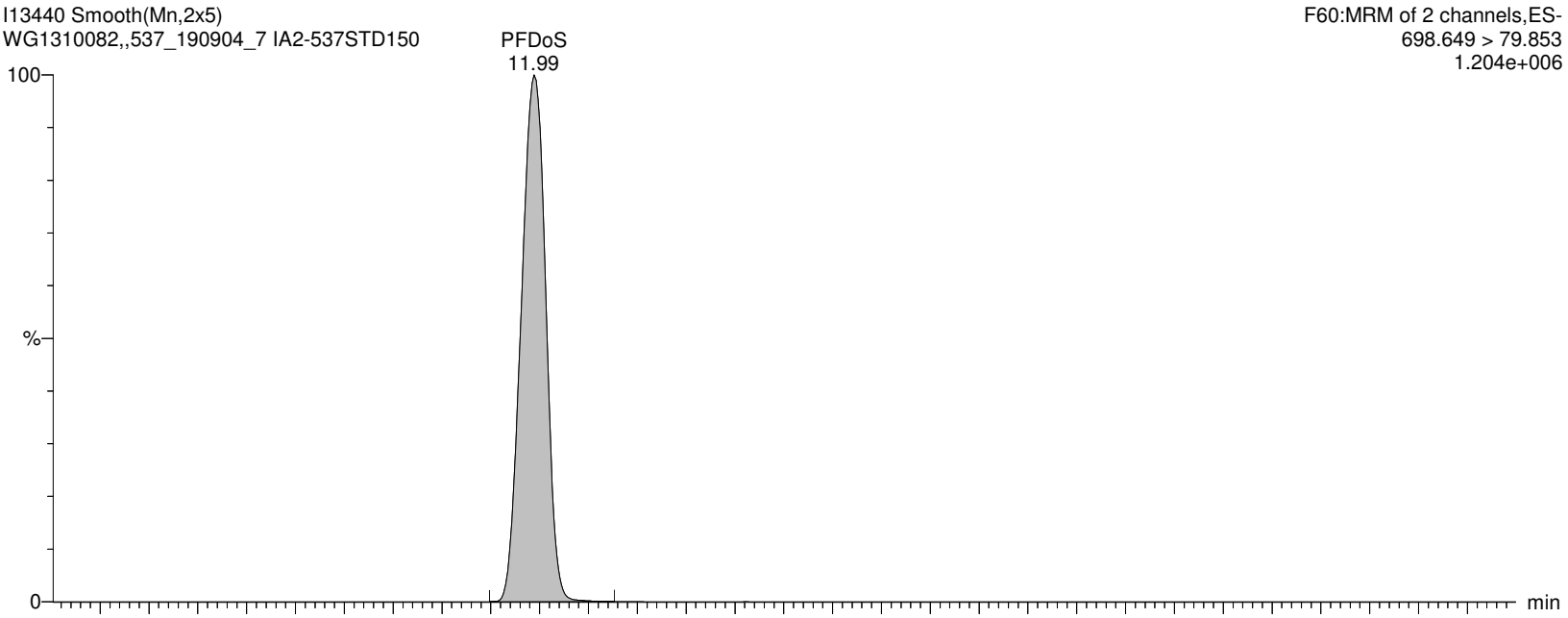

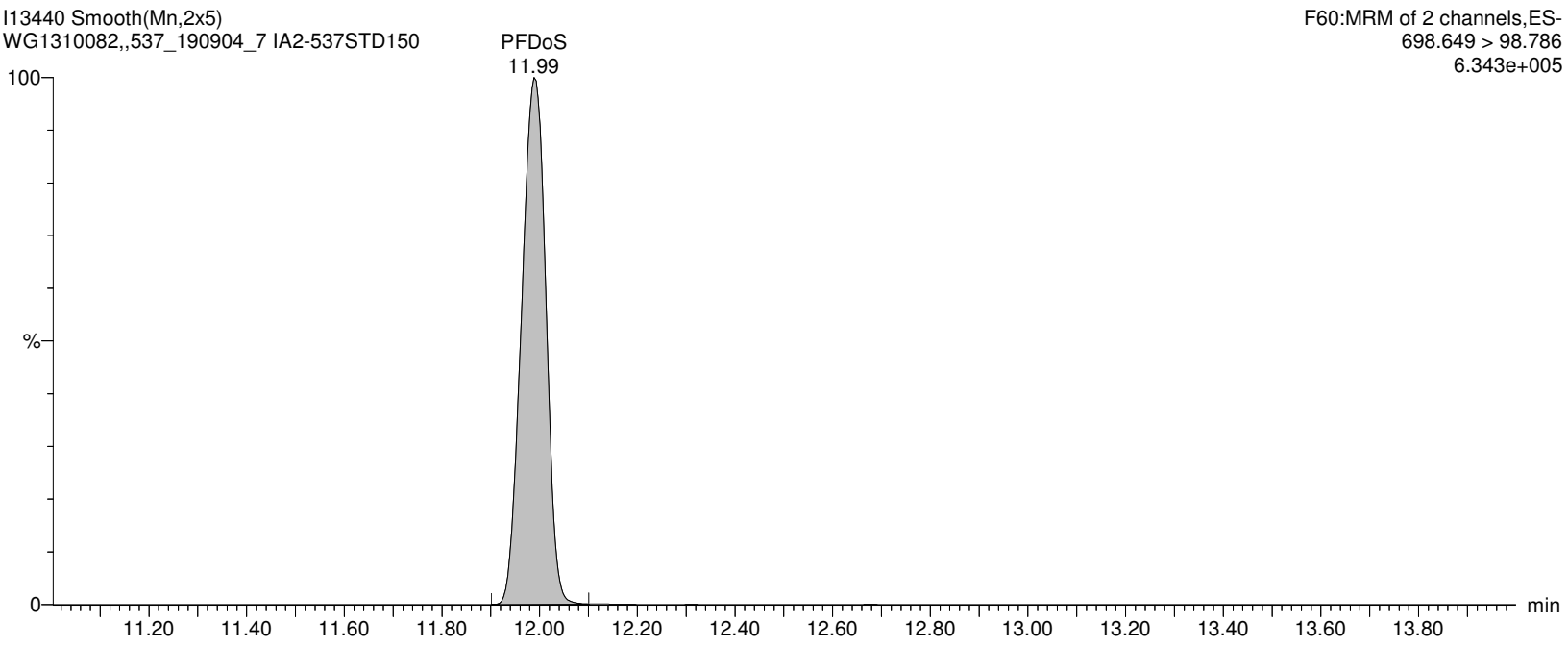

all concentration units in (ng/mL)

Alpha Analytical Inc.
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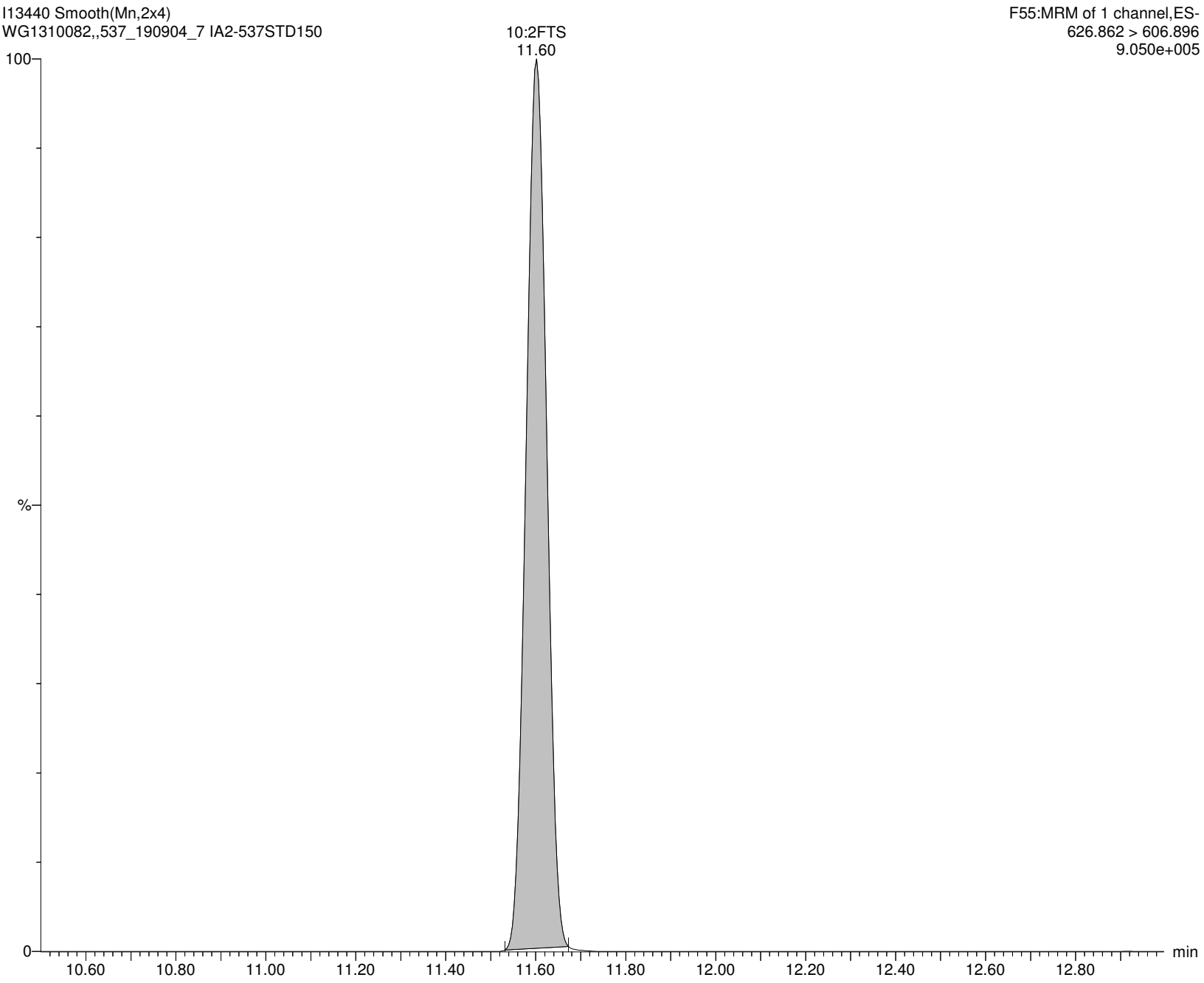

all concentration units in (ng/mL)

Alpha Analytical Inc.
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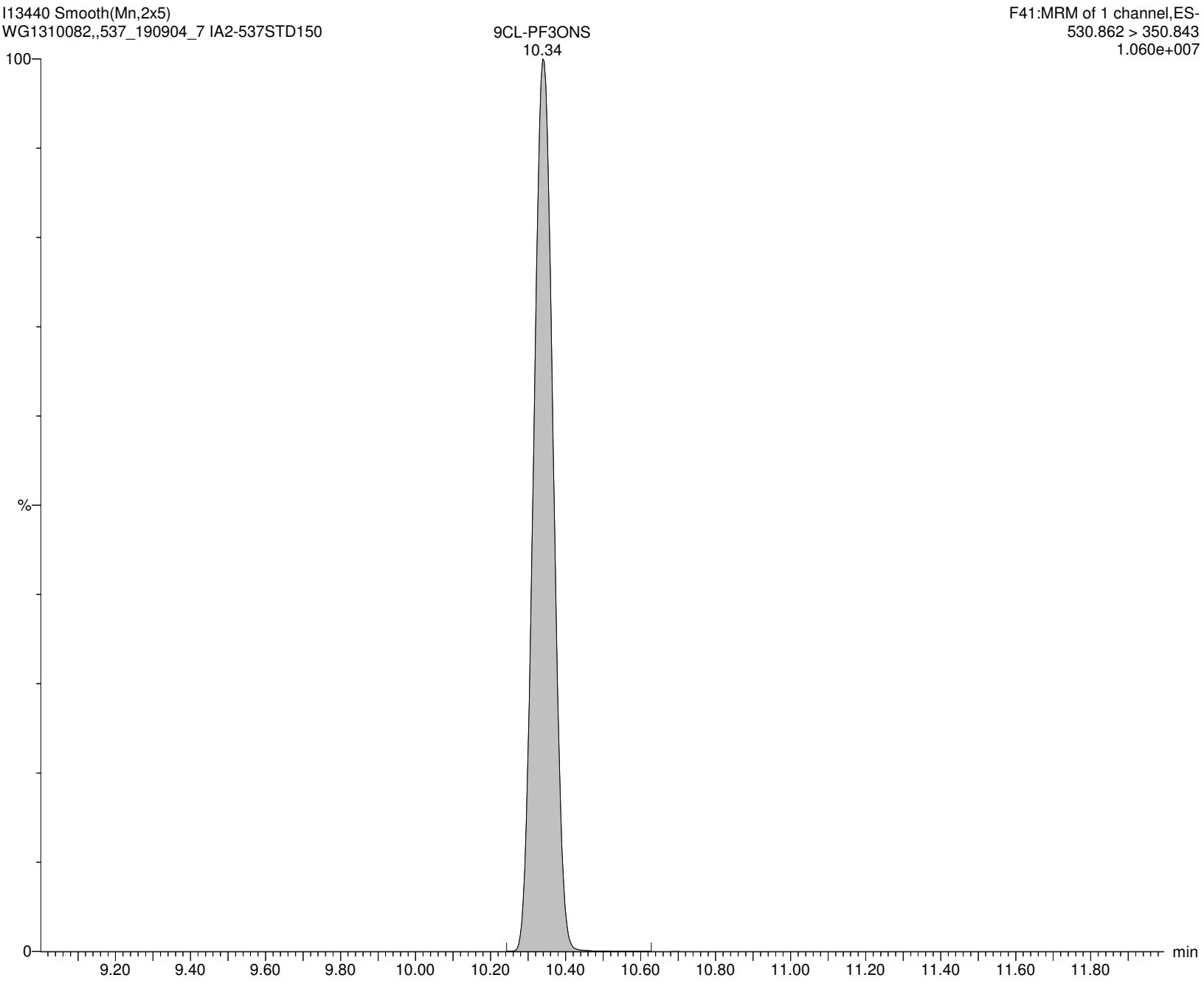

all concentration units in (ng/mL)

Alpha Analytical Inc.
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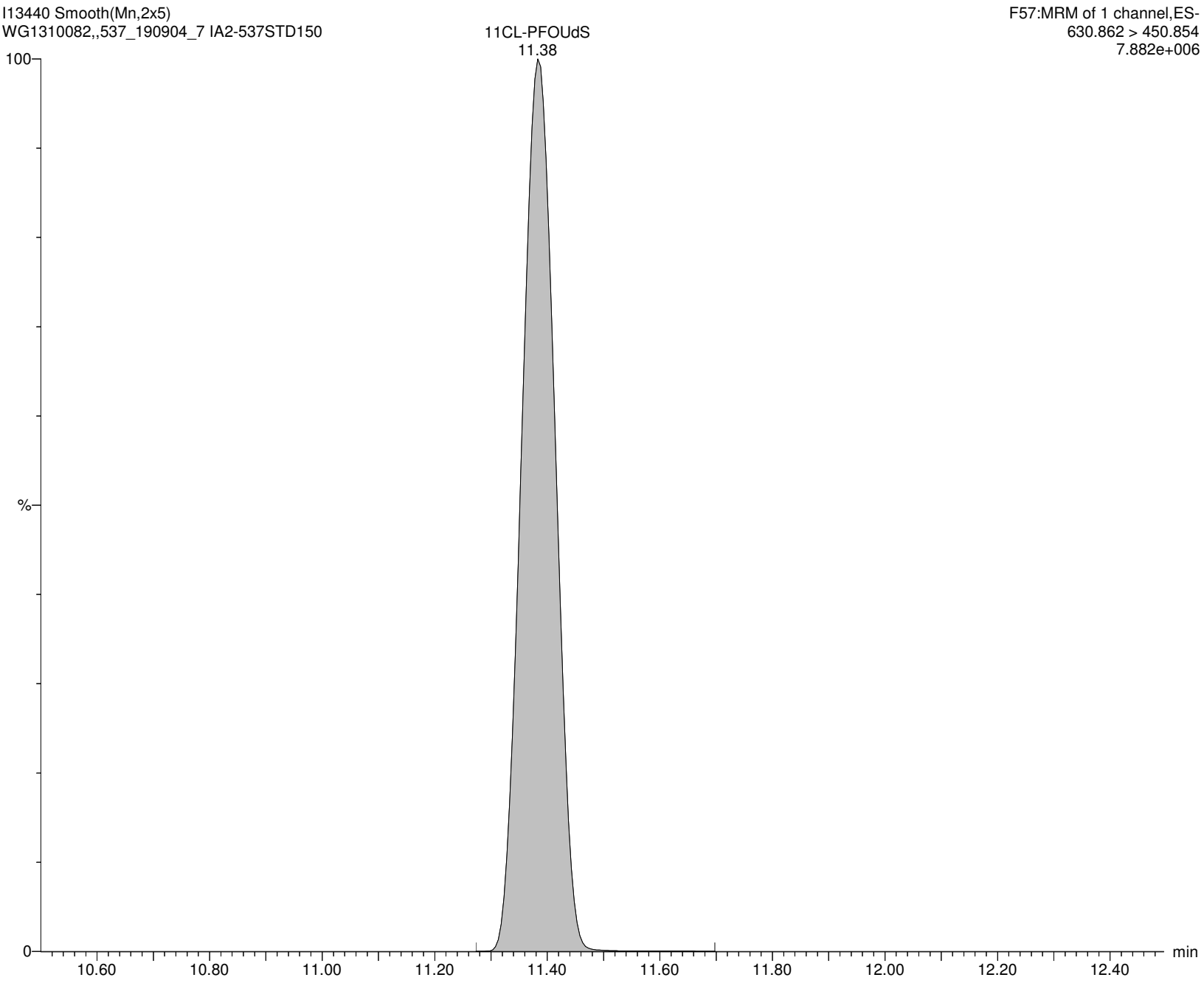

all concentration units in (ng/mL)

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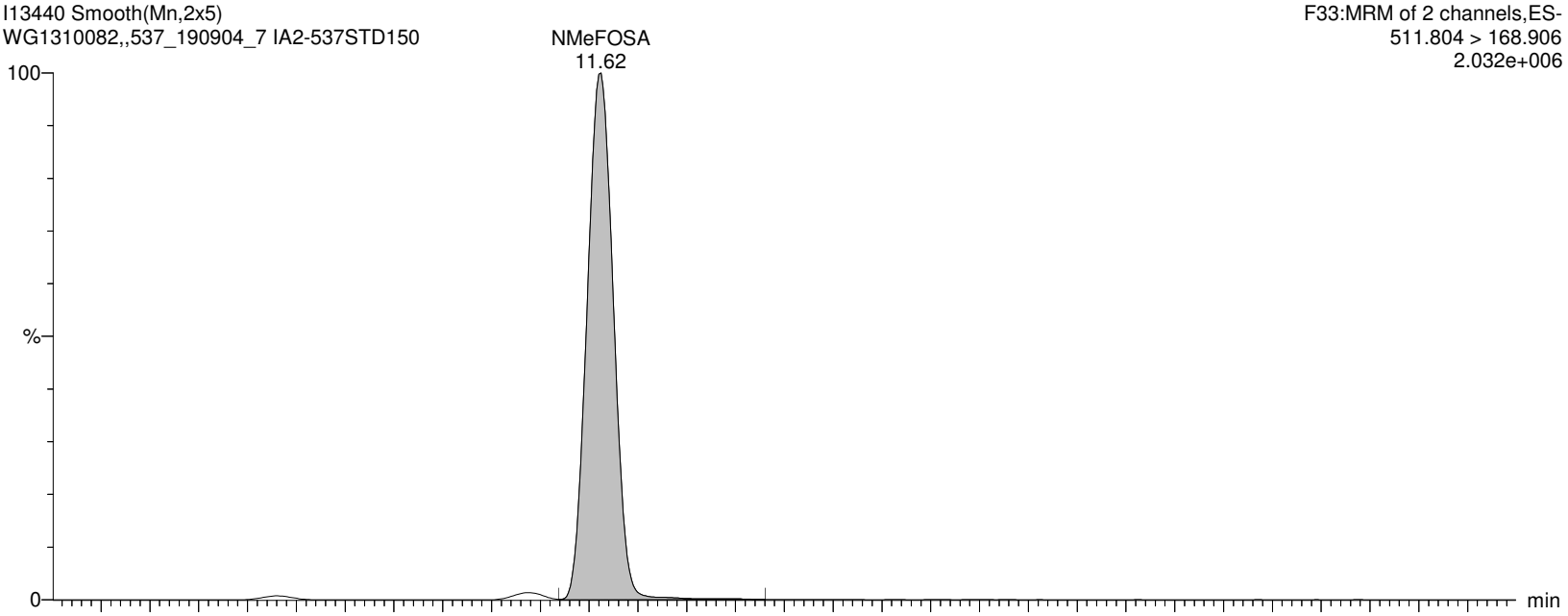

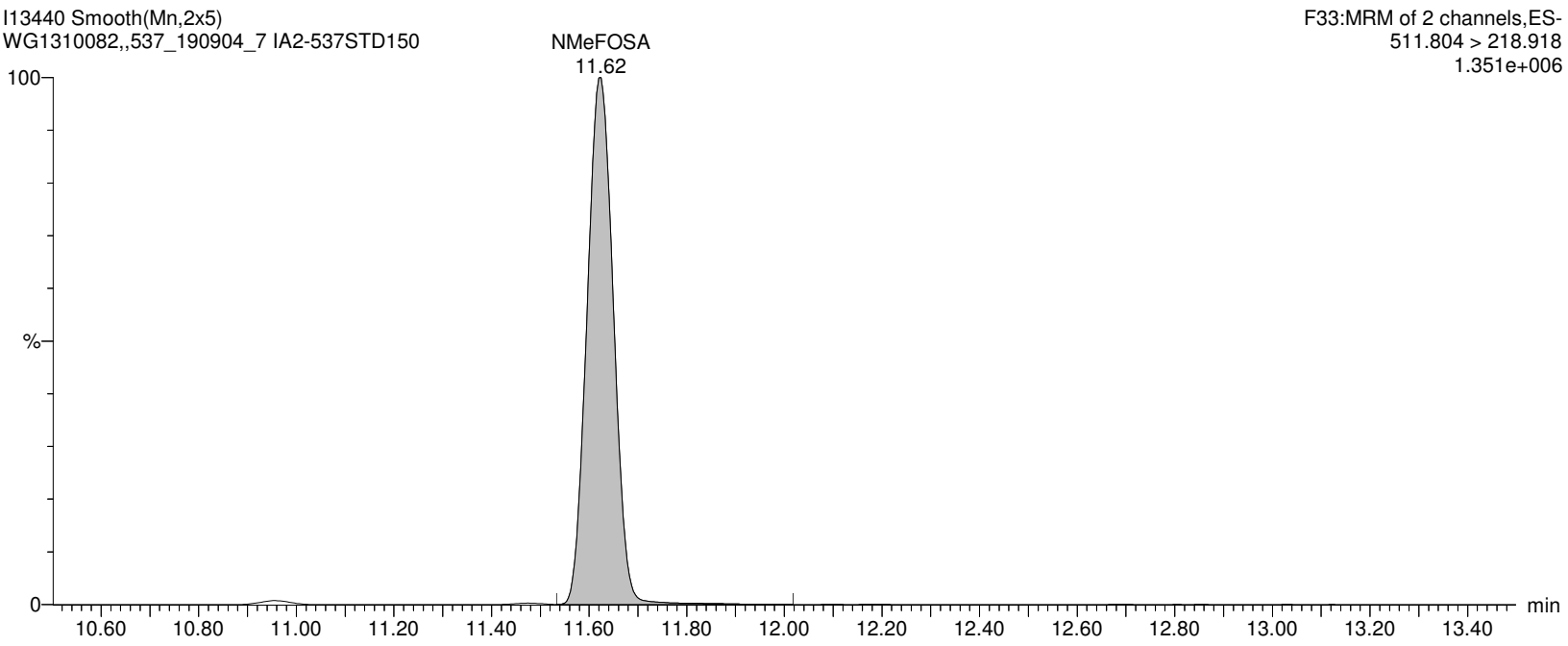

all concentration units in (ng/mL)

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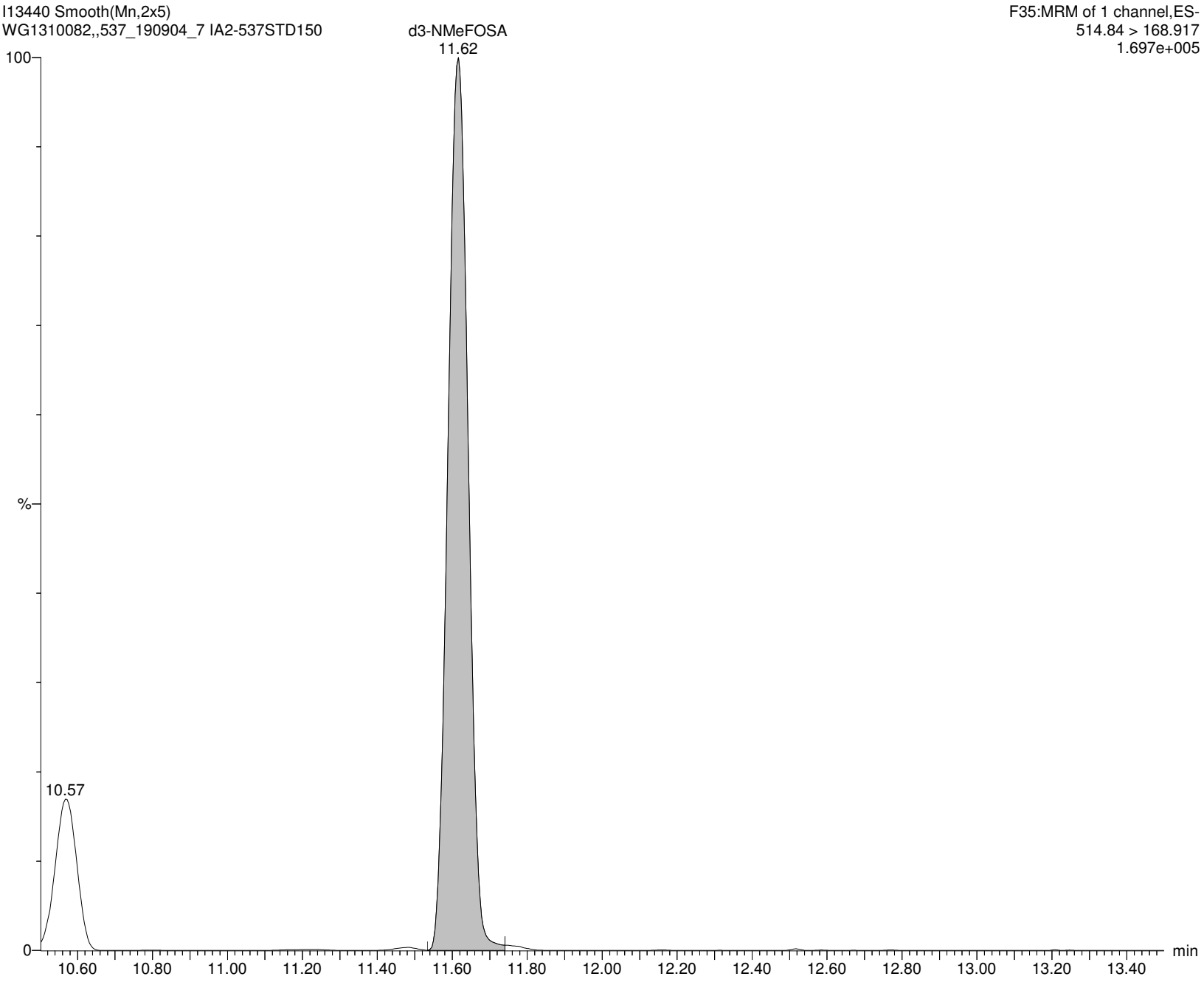

all concentration units in (ng/mL)

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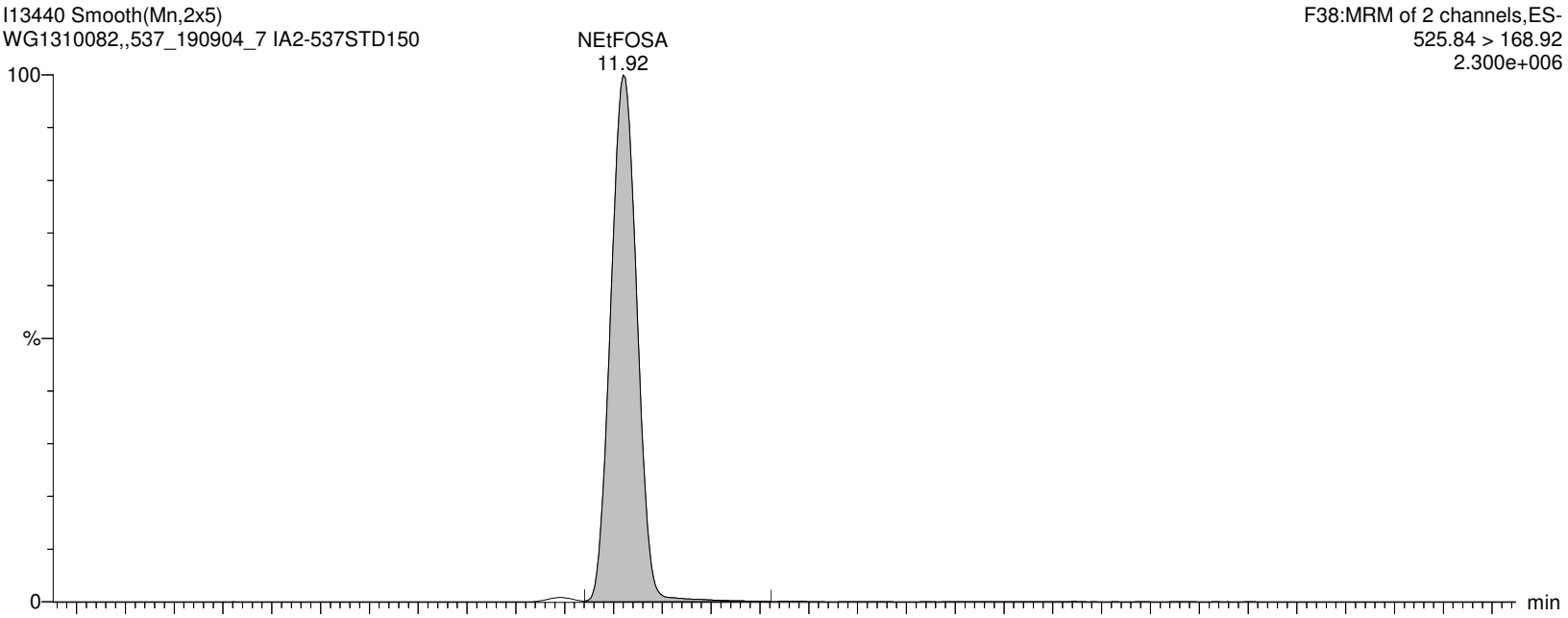

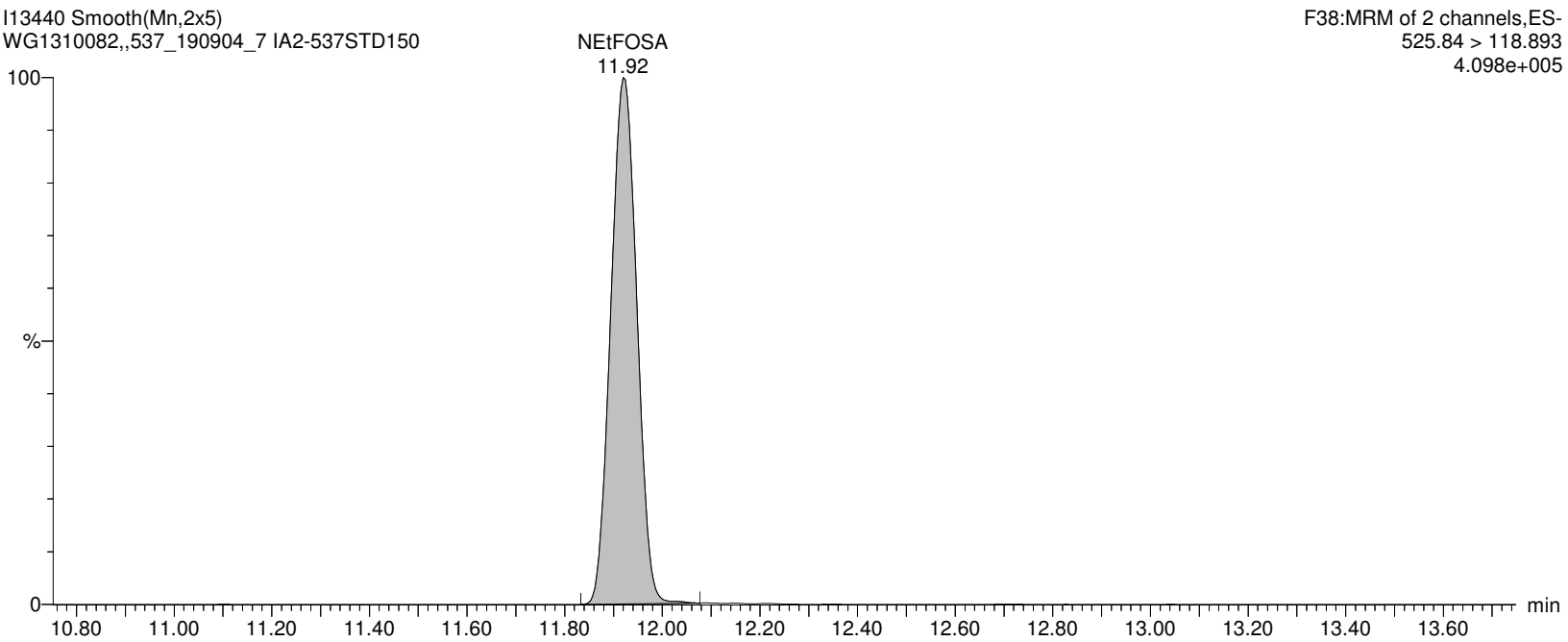

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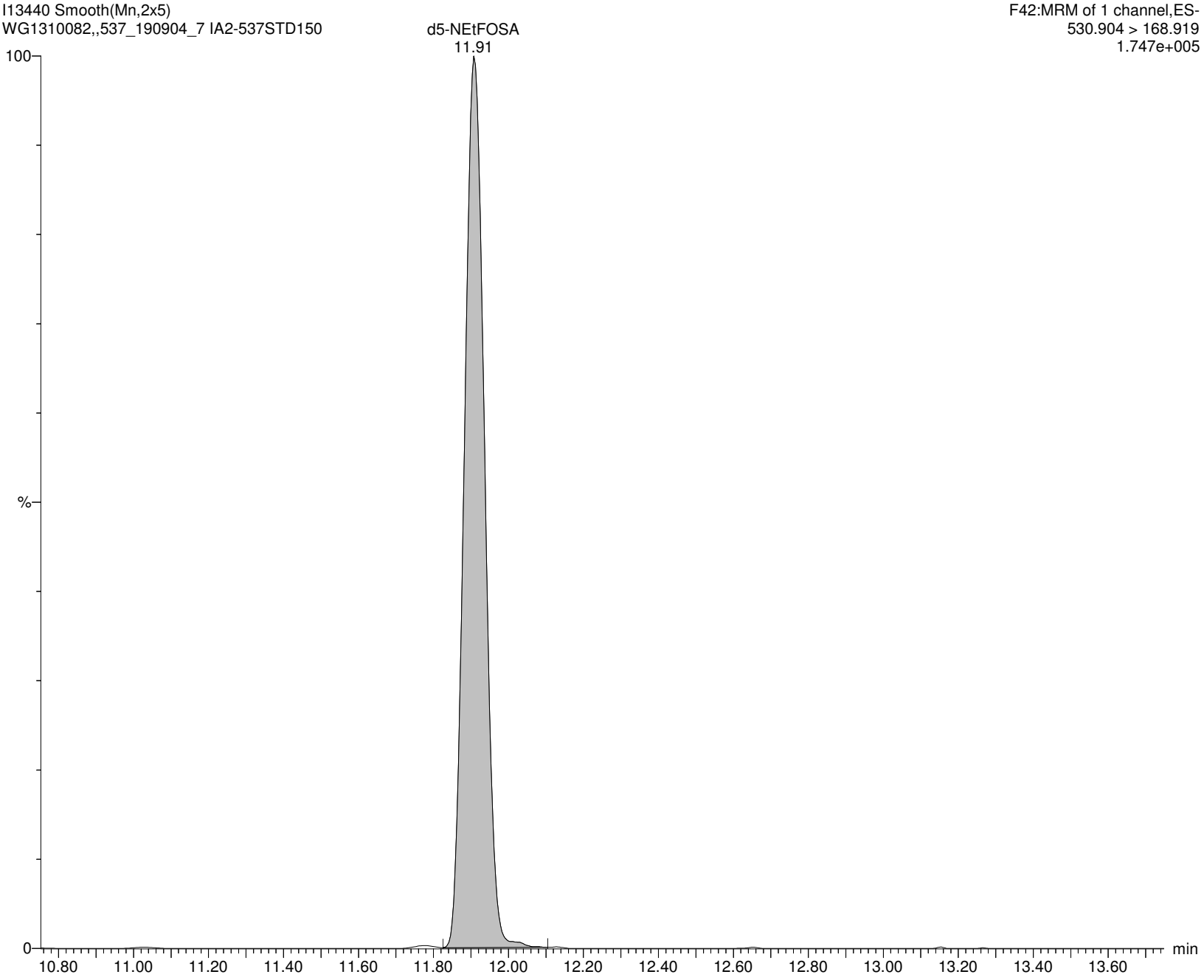

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:00 Eastern Standard Time

Name: I13440
ID: IA2-537STD150
Date: 18-Nov-2019
Time: 12:16:43
Description: WG1310082,,537_190904_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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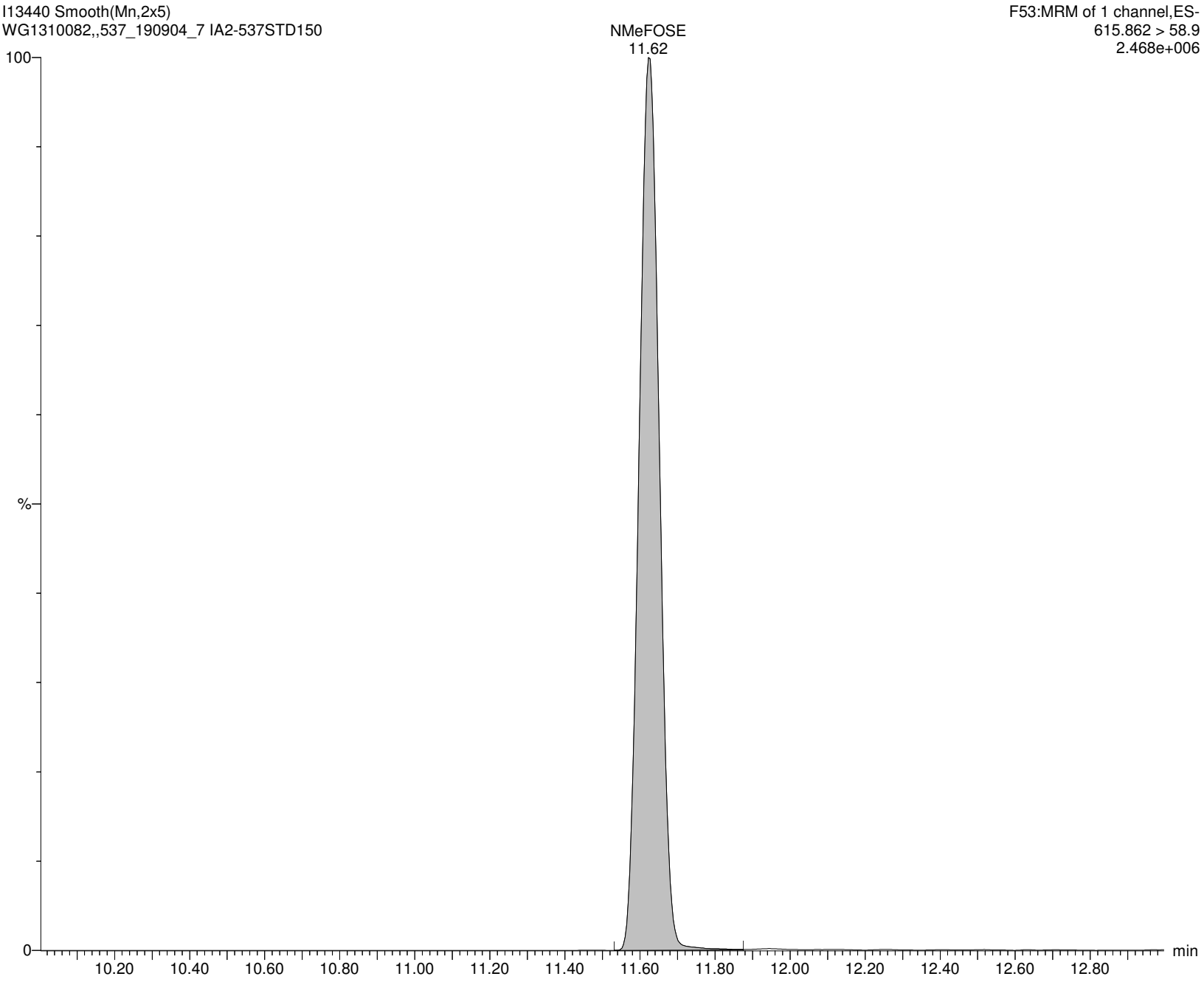

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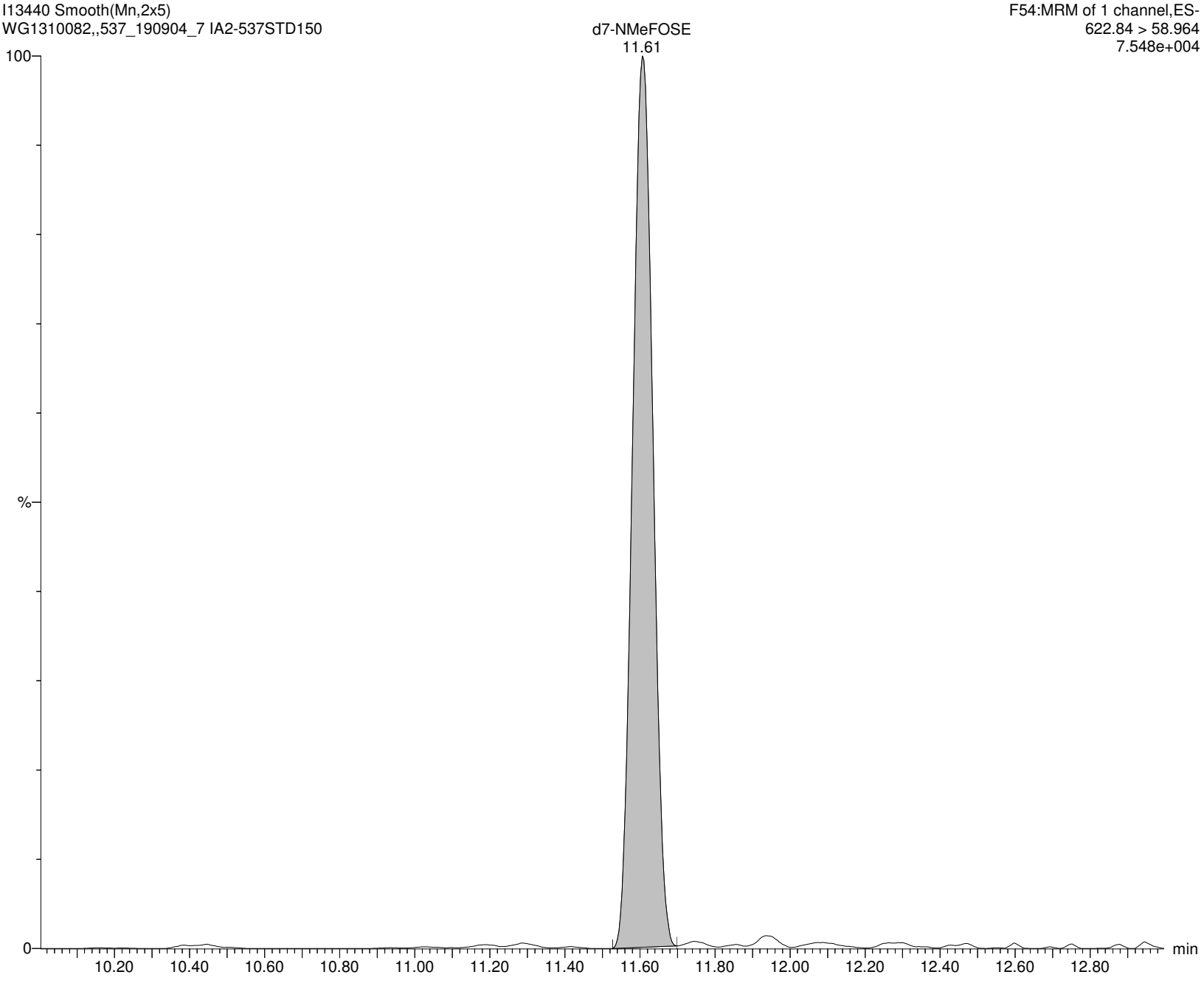
d7-NMeFOSE



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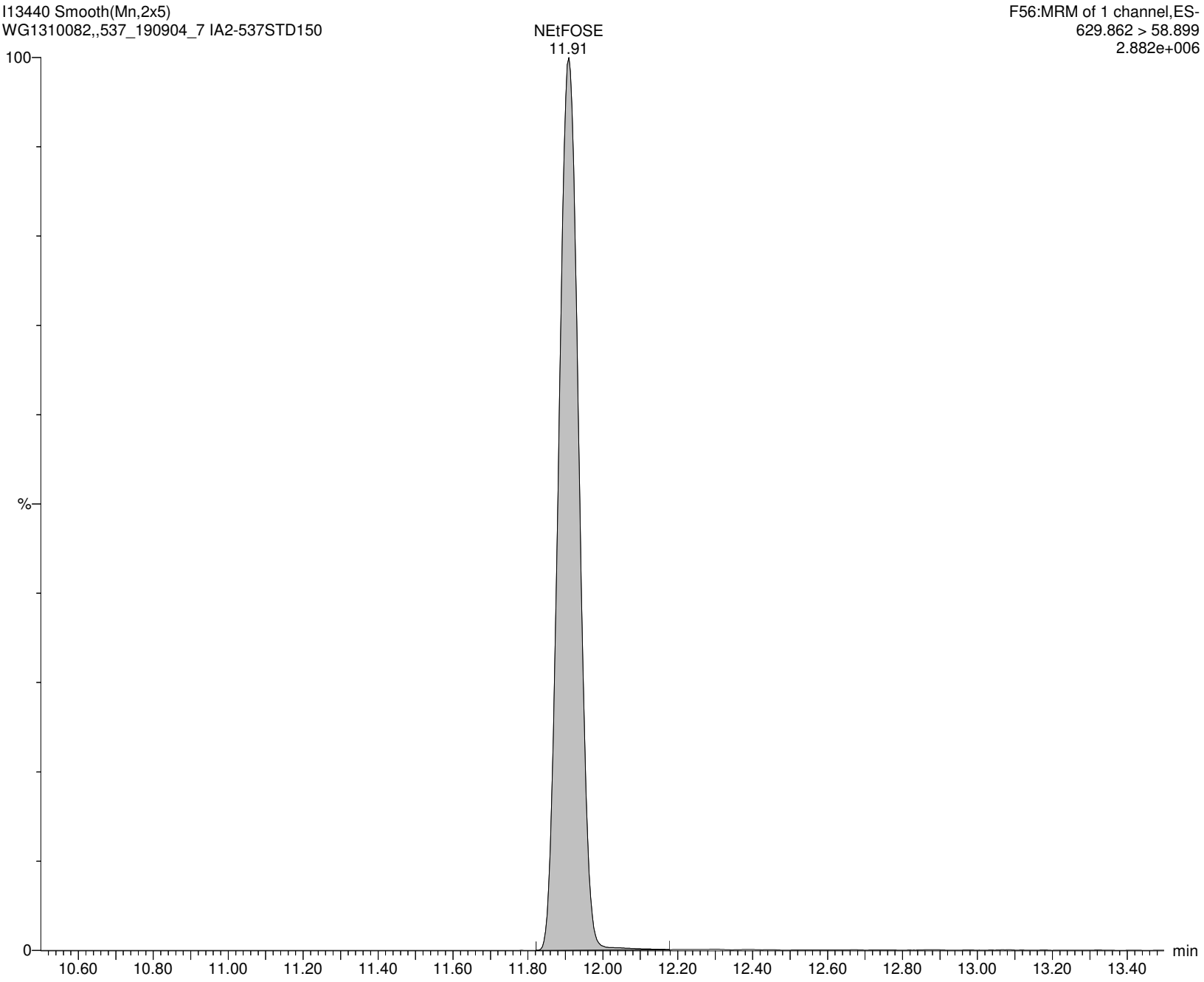

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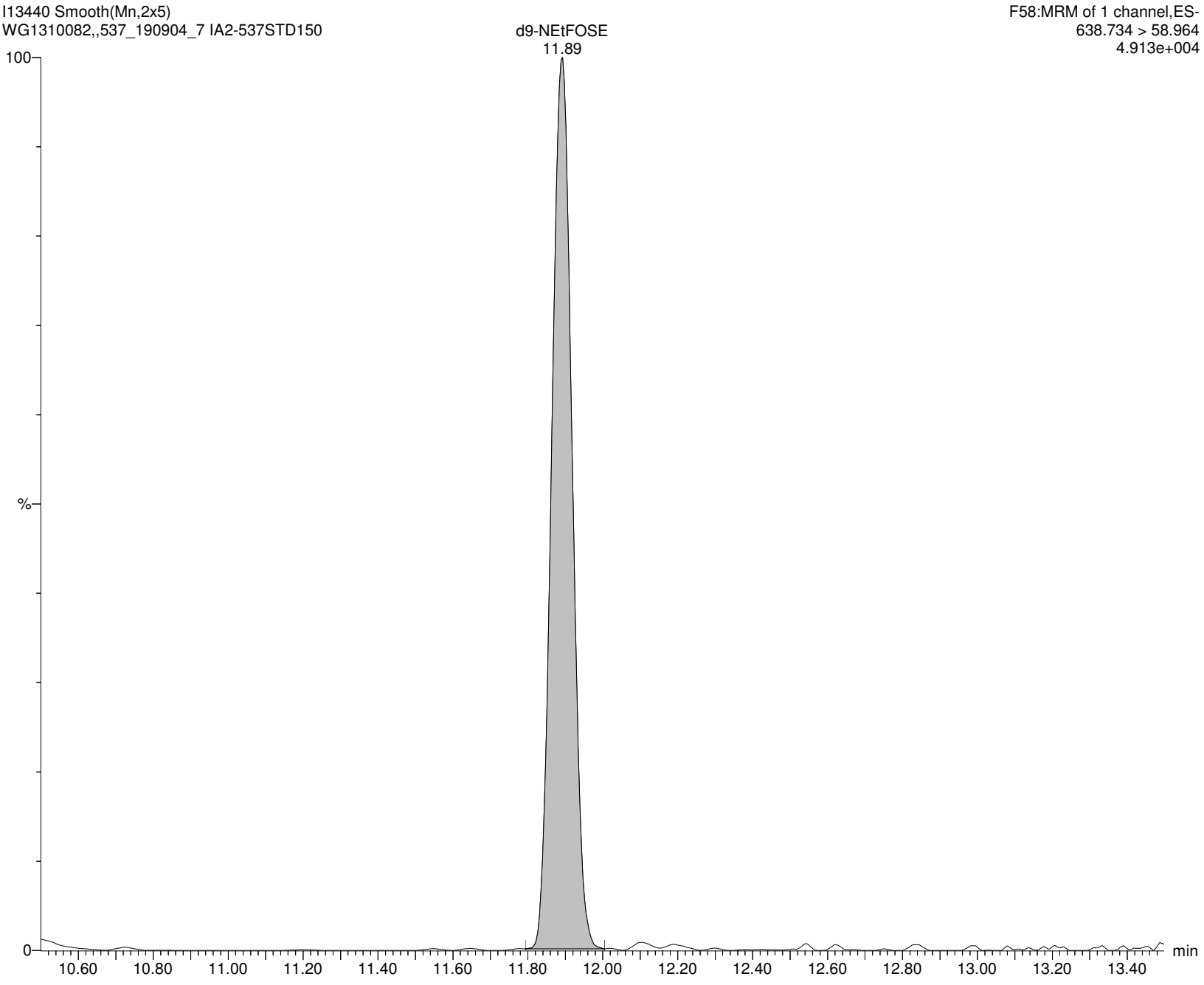
d9-NEtFOSE



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Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:05:34
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD250
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	1053097		260.349		na	104.1
2	M3PFBA	INT STD	2.19	215.926 > 172.122	44855		9.680		na	96.8
3	MPFBA	INT STD	2.19	216.926 > 172.137	48443		9.924		na	99.2
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	1664294		259.541		na	103.8
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	66395		9.590		na	95.9
6	PFBS	375-73-5	5.74	298.926 > 79.923	295488		229.092	1.91	NO	103.5
7	M3PFBS	INT STD	5.74	301.989 > 80.254	8779		11.009		na	110.1
8	4:2FTS	757124-72-4	6.91	326.926 > 306.957	140203		ND	2.17	NO	
9	M2-4:2FTS	INT STD	6.91	329.117 > 309.079	11231		21.693		na	216.9
10	PFHxA	307-24-4	6.99	312.989 > 269.028	1733137		256.561	18.12	NO	102.6
11	M5PFHxA	INT STD	6.99	317.989 > 273.045	73382		9.981		na	99.8
12	PFPeS	2706-91-4	7.29	348.926 > 80.251	187634		242.760	1.78	NO	103.3
13	PFHpA	375-85-9	8.26	362.926 > 319.014	2202073		256.824	5.74	NO	102.7
14	M4PFHpA	INT STD	8.26	366.926 > 321.979	95053		9.705		na	97.1
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	30899	M5	44.216	2.24	NO	104.0
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	110742		191.292	1.18	NO	103.4
17	PFHxS	355-46-4		398.926 > 80.295	141641		235.508		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	4622		10.041		na	100.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	2184240		262.402	10.26	NO	105.0
21	PFOA	335-67-1		412.989 > 368.9	2184240		262.402		na	
22	M8PFOA	INT STD	9.19	420.989 > 375.979	90653		9.646		na	96.5
23	M2PFOA	INT STD	9.19	415.032 > 369.968	96049		9.086		na	90.9
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	105135		ND	9.62	NO	
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	11016		21.773		na	217.7
26	PFHpS	375-92-8	9.29	448.926 > 80.257	99603		255.931	0.86	YES	107.8
27	PFNA	375-95-1	9.95	462.989 > 418.931	1887085		262.199	4.53	NO	104.9
28	M9PFNA	INT STD	9.95	472.053 > 426.947	87852		9.500		na	95.0
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	48276	M5	52.590	4.53	NO	105.2
30	L-PFOS	1763-23-1	10.00	498.989 > 80.294	114602		197.579	1.54	YES	108.3
31	PFOS	1763-23-1		498.989 > 80.294	162877		250.169		na	
32	M4PFOS	INT STD	10.00	503.032 > 80.306	5697		8.157		na	81.6
33	M8PFOS	INT STD	10.00	507.053 > 80.294	5910		10.111		na	101.1
34	PFDA	335-76-2	10.57	513.053 > 468.906	1633247		254.115	6.75	NO	101.6
35	M2PFDA	INT STD	10.57	515.053 > 469.934	73447		8.319		na	83.2
36	M6PFDA	INT STD	10.57	519.053 > 473.931	74923		9.870		na	98.7
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	72996		ND		na	
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	6318		21.284		na	212.8
39	PFNS	68259-12-1	10.60	548.989 > 80.249	130021		236.503	1.24	NO	98.5

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Date: 18-Nov-2019
Time: 12:33:16
Description: WG1310082,,537_190904_8
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.096 > 418.987	9846		11.389		na	113.9
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	236955		258.231	2.71	NO	103.3
43	NMeFOSAA	2355-31-9		570.053 > 418.917	236955		258.231		na	
44	PFUnA	2058-94-8	11.11	562.989 > 518.903	1508727		258.265	8.05	NO	103.3
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	61087		9.071		na	90.7
46	PFDS	335-77-3	11.12	598.926 > 80.314	95134		242.098	1.03	NO	100.4
47	FOSA	754-91-6	11.01	497.989 > 78.245	535815		260.532	123.86	NO	104.2
48	M8FOSA	INT STD	11.01	506.053 > 78.286	19355		10.784		na	107.8
49	d5-NEtFOSAA	INT STD	11.24	589.117 > 418.929	8970		11.746		na	117.5
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND	0.00	NO	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	207896		245.516	2.47	NO	98.2
52	NEtFOSAA	2991-50-6		583.989 > 418.927	207896		245.516		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	1677290		257.198	14.32	NO	102.9
54	MPFDOA	INT STD	11.59	614.989 > 569.92	76995		10.191		na	101.9
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	1125203		252.665	11.01	NO	101.1
56	PFTA	376-06-7	12.36	713.053 > 668.976	1254326		259.404	8.67	NO	103.8
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	60380		10.062		na	100.6
58	M3HFPO-DA	INT STD	7.39	331.989 > 286.995	14124		343.019		na	171.5
59	HFPO-DA	13252-13-6	7.39	284.819 > 169.094	593297		5059.075	2.71	YES	101.2
60	ADONA	958445-44-8	8.44	376.926 > 251.005	2918572		244.897		na	103.5
61	PFHxDA		12.78	813.053 > 769.005	1043087		260.356		na	104.1
62	PFODA		12.98	912.989 > 869.032	747347		252.158		na	100.9
63	M2PFHxDA		12.78	815.372 > 770.158	12595		9.860		na	98.6
64	PFDoS		11.99	698.649 > 79.853	95181		237.606	1.96	YES	95.0
65	10:2FTS		11.60	626.862 > 606.896	73628		ND		na	
66	9CL-PF3ONS		10.35	530.862 > 350.843	962078		247.688		na	106.3
67	11CL-PFOUdS		11.38	630.862 > 450.854	830743		253.699		na	107.7
68	NMeFOSA		11.62	511.804 > 168.906	204881		255.491	1.50	NO	102.2
69	d3-NMeFOSA		11.62	514.84 > 168.917	10789		11.528		na	115.3
70	NEtFOSA		11.92	525.84 > 168.92	228134		243.312	5.52	NO	97.3
71	d5-NEtFOSA		11.91	530.904 > 168.919	10701		11.689		na	116.9
72	NMeFOSE		11.63	615.862 > 58.9	245770		263.169		na	105.3
73	d7-NMeFOSE		11.61	622.84 > 58.964	4616		10.531		na	105.3
74	NEtFOSE		11.91	629.862 > 58.899	285368		246.934		na	98.8
75	d9-NEtFOSE		11.89	638.734 > 58.964	2928		11.421		na	114.2

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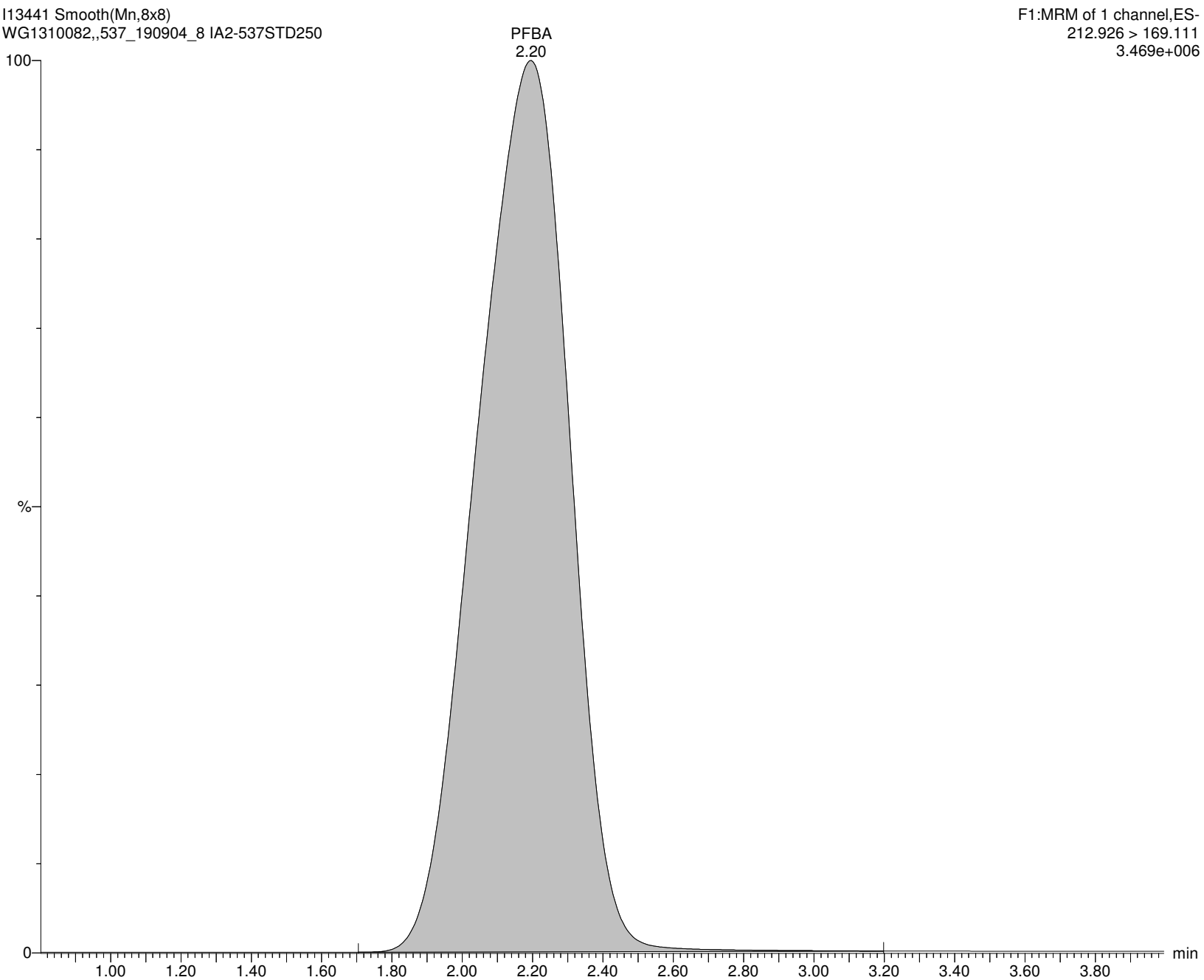

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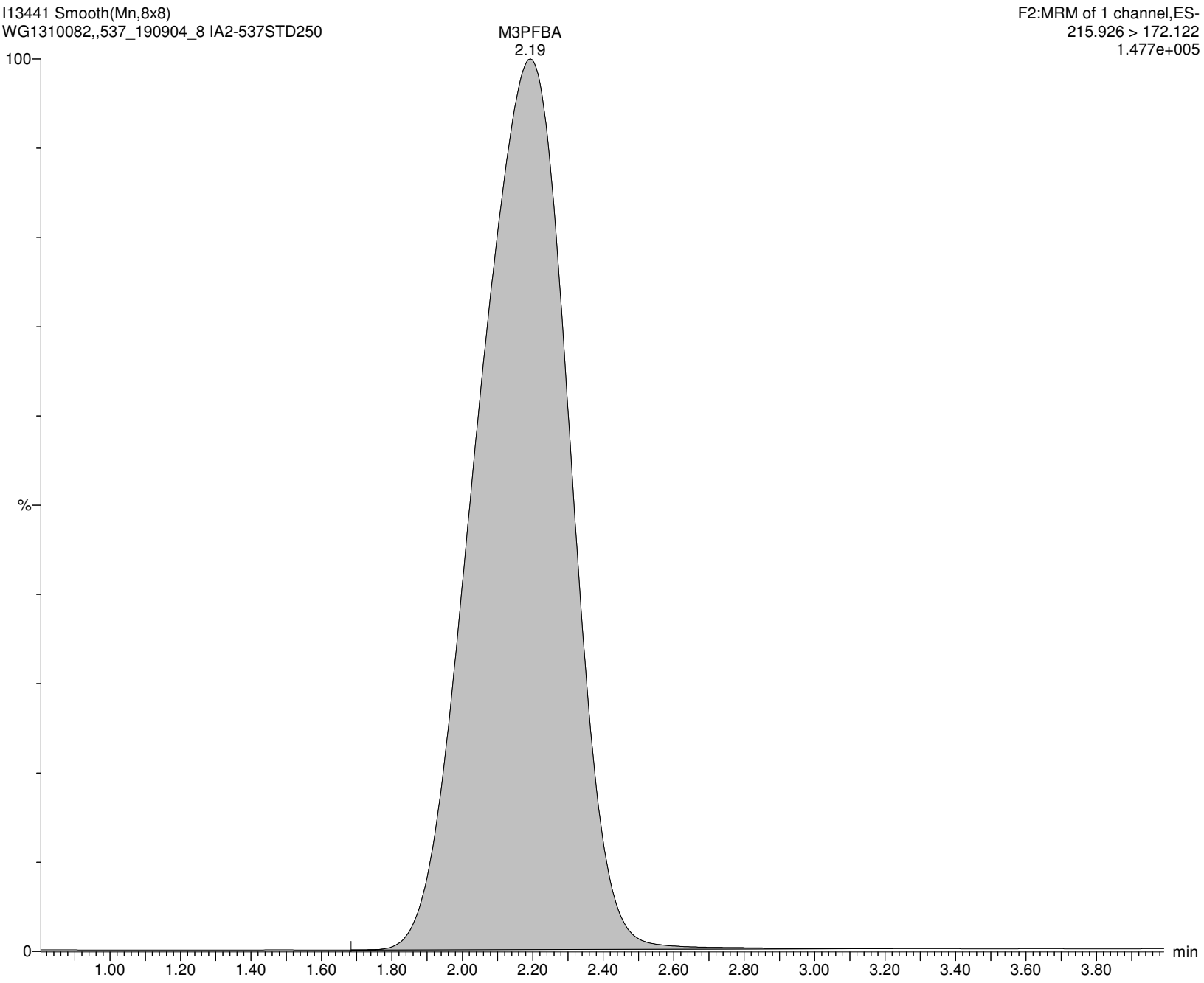

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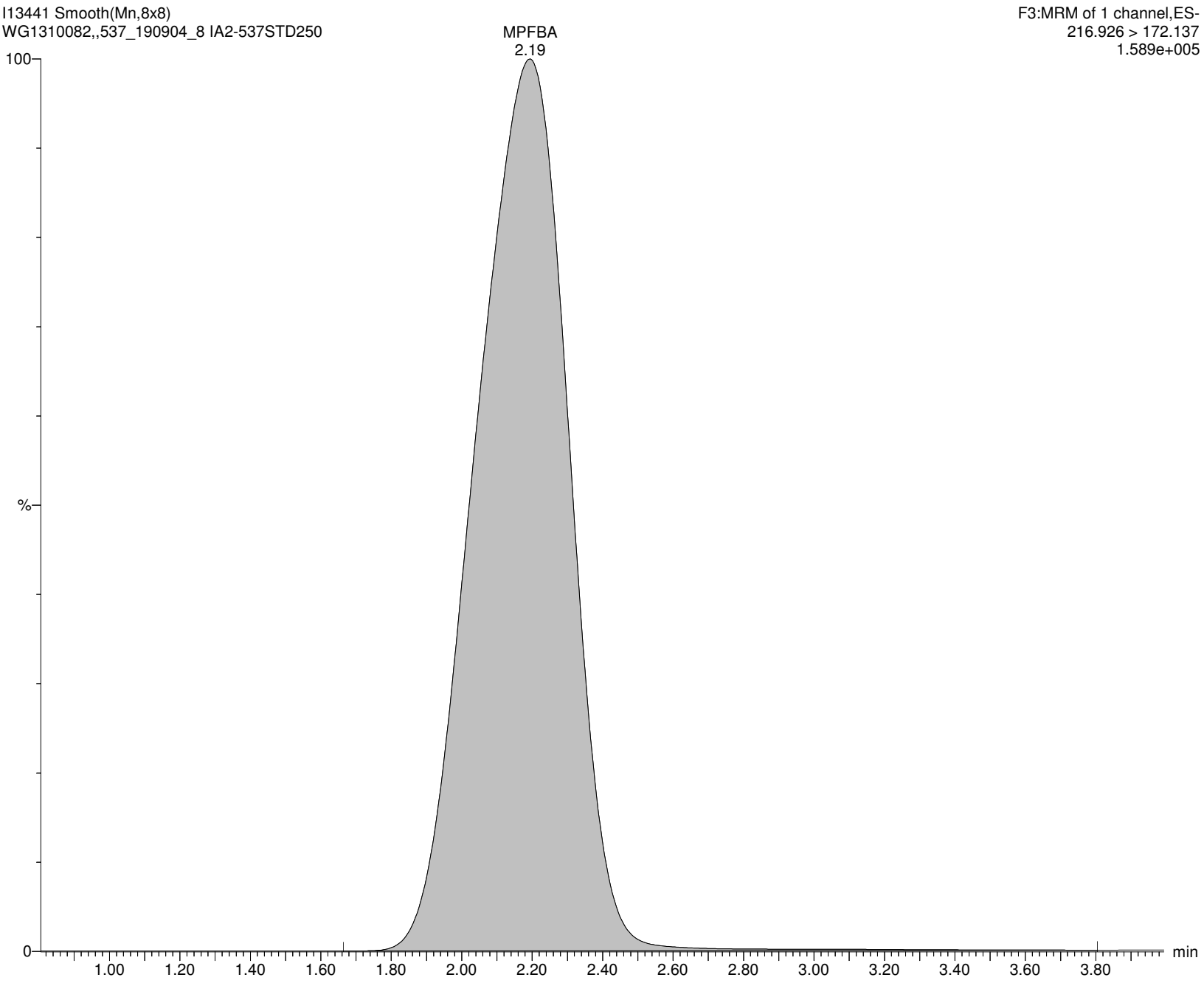

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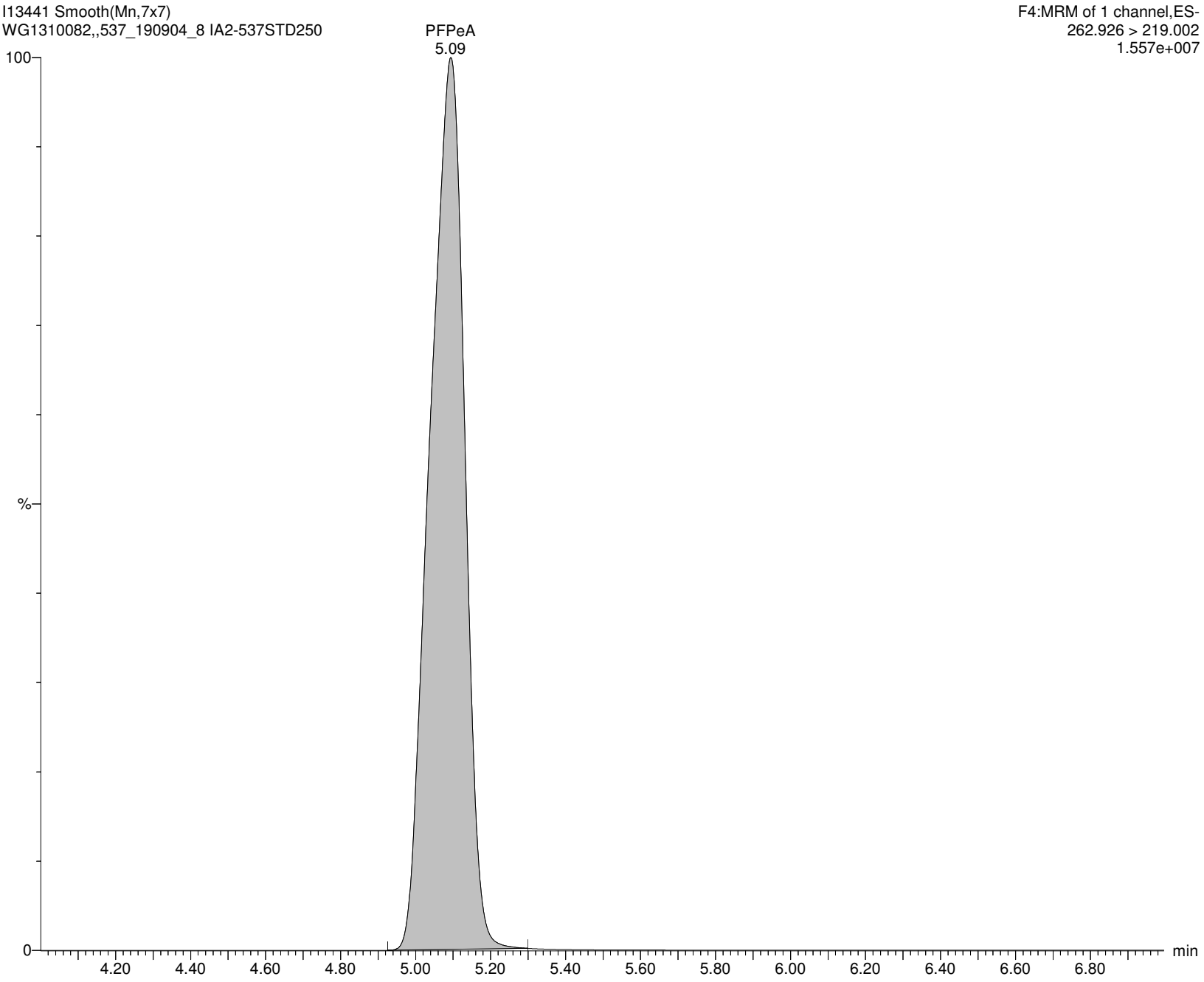
PFPeA



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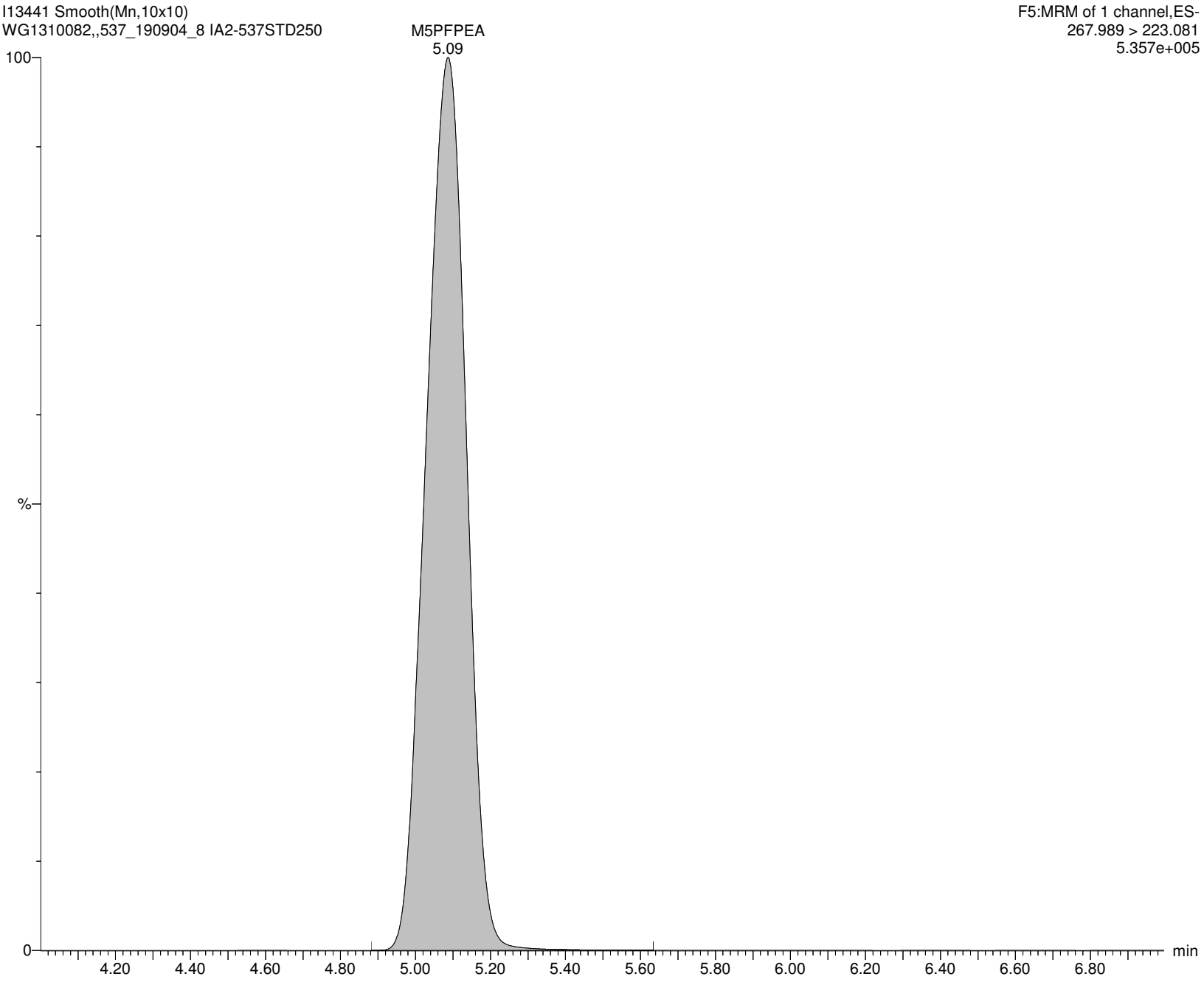

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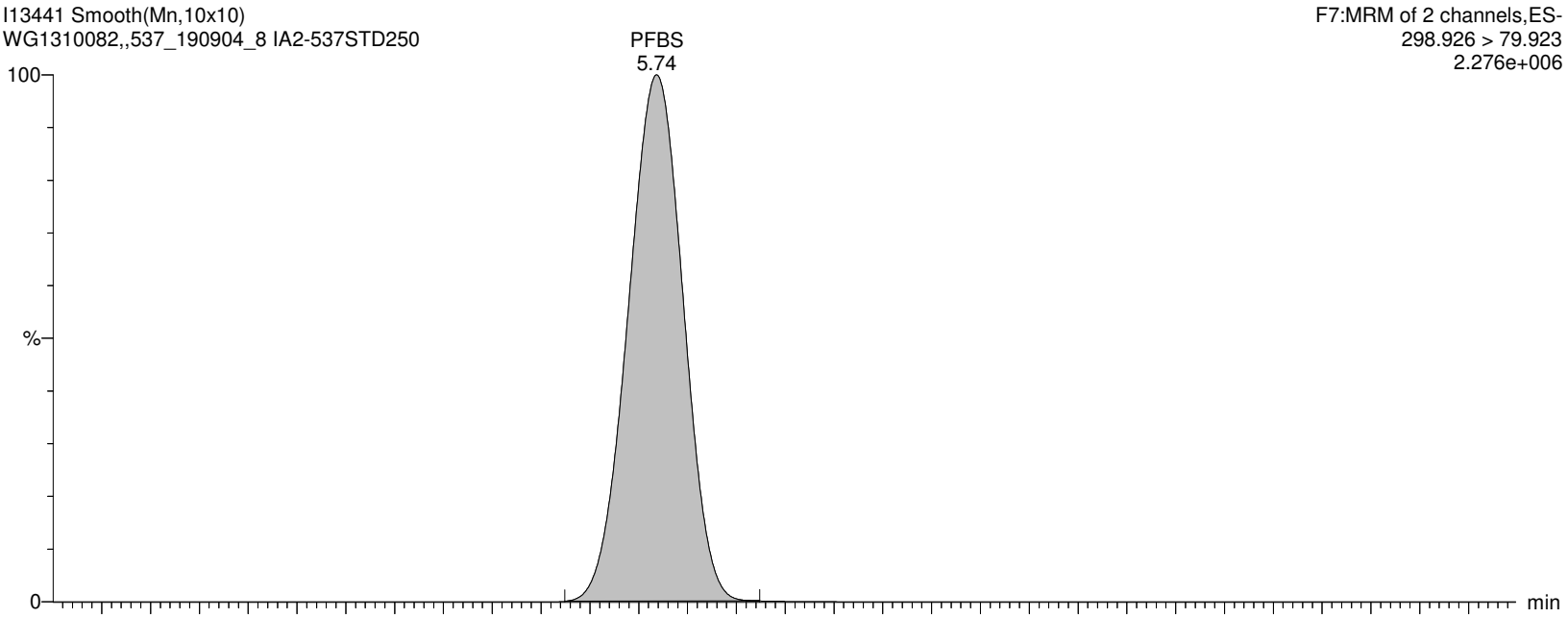

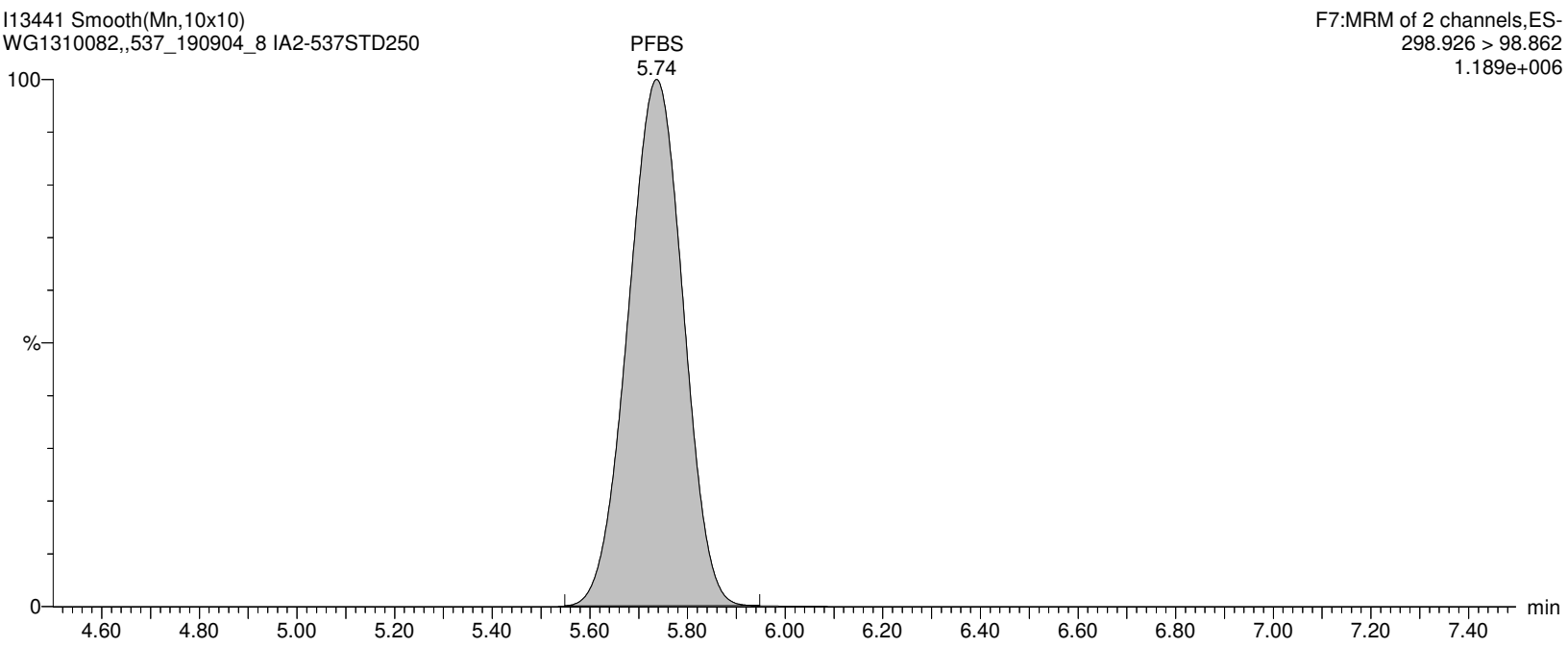

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:03 Eastern Standard Time

Name: I13441
ID: IA2-537STD250
Date: 18-Nov-2019
Time: 12:33:16
Description: WG1310082,,537_190904_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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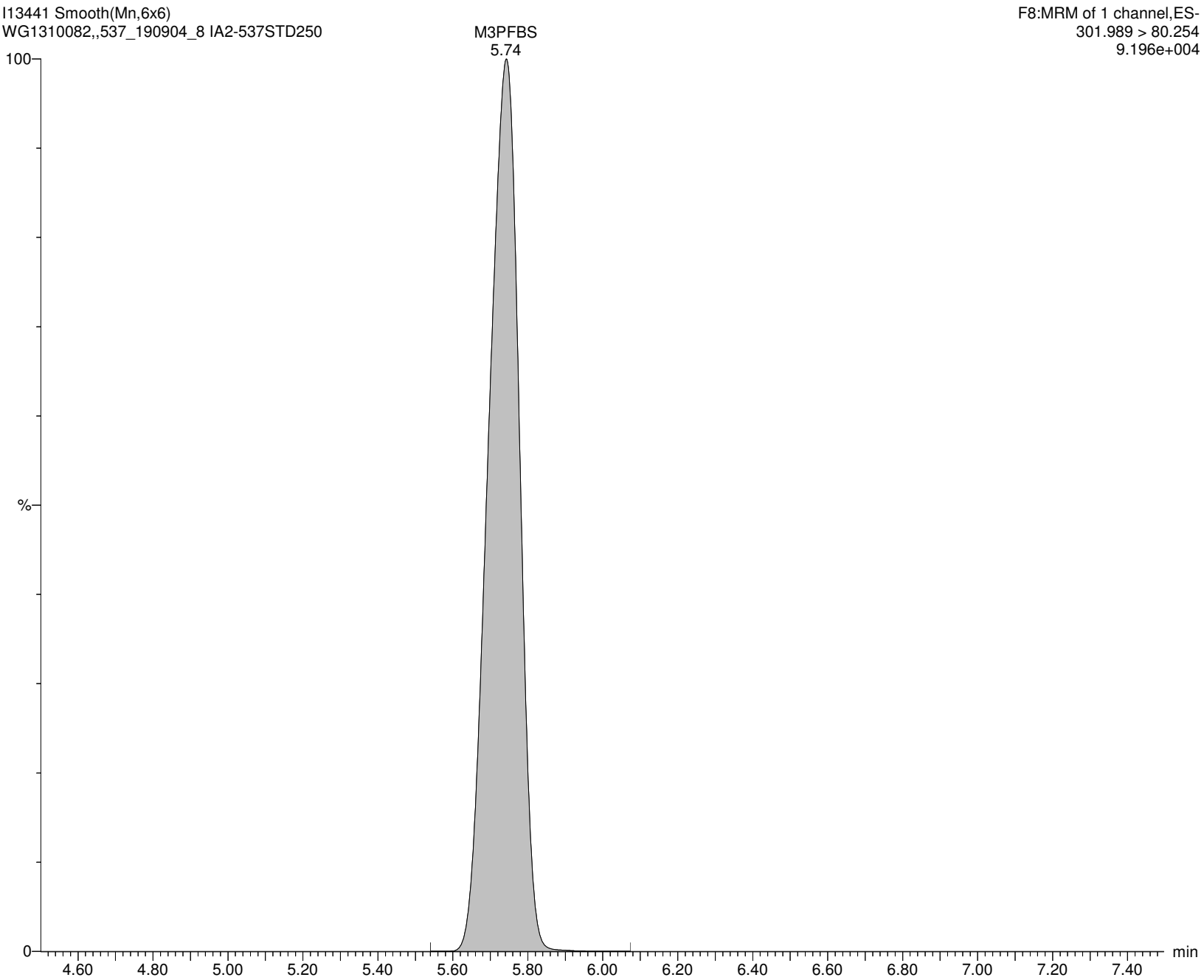

all concentration units in (ng/mL)

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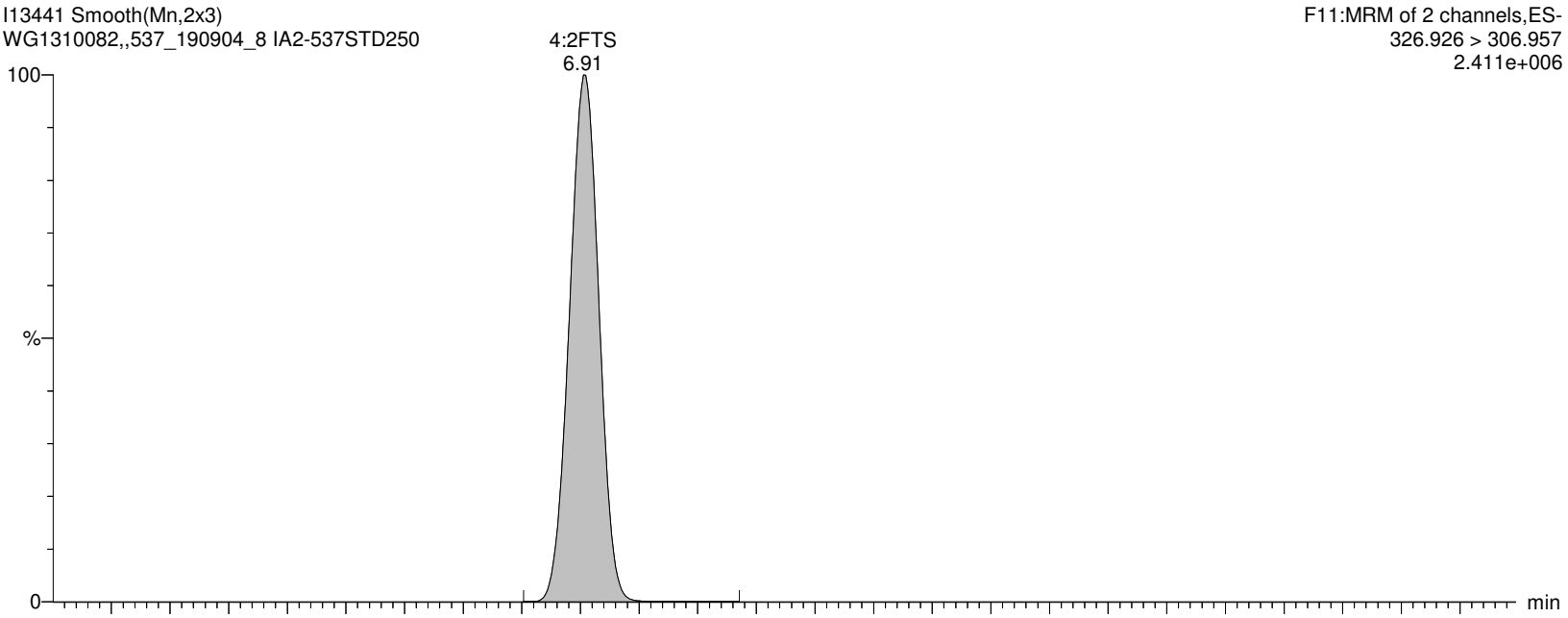

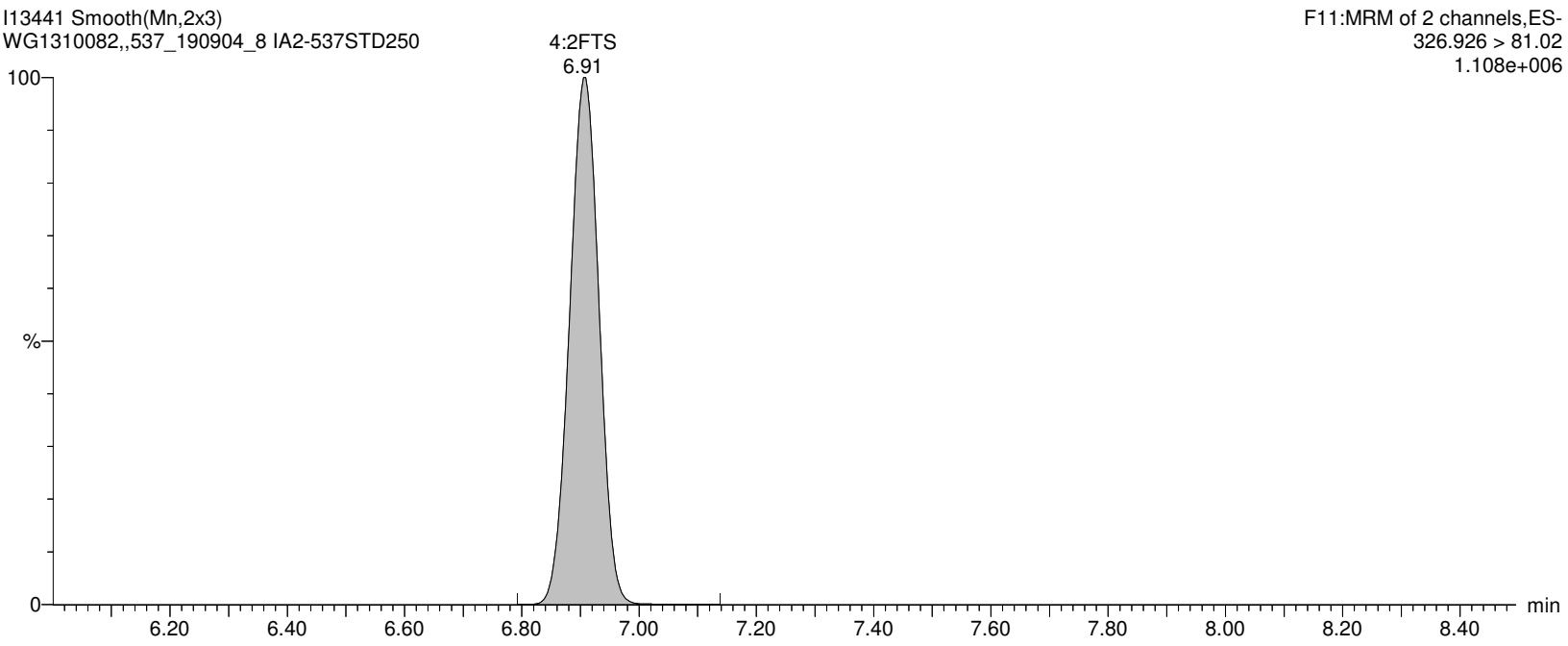

all concentration units in (ng/mL)

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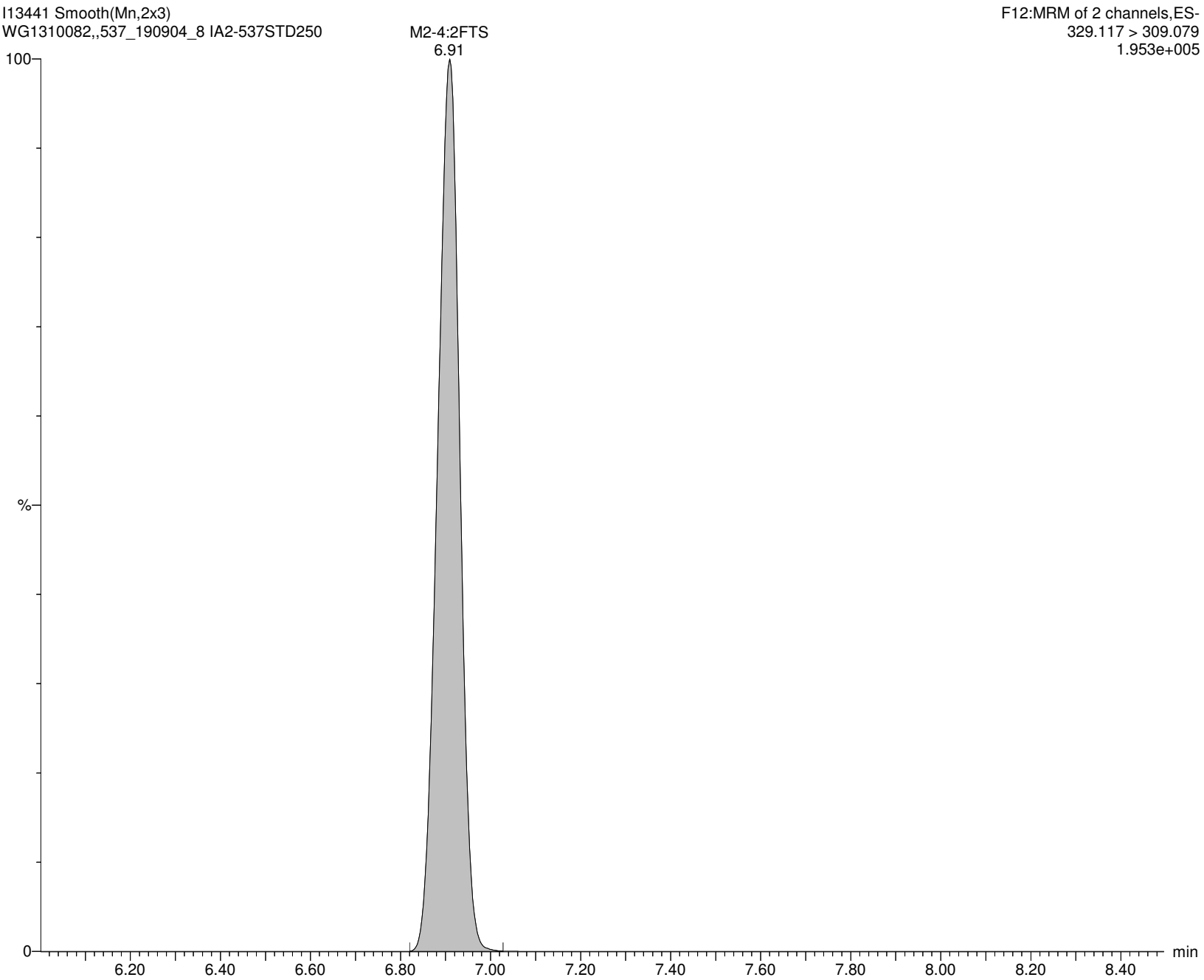

all concentration units in (ng/mL)

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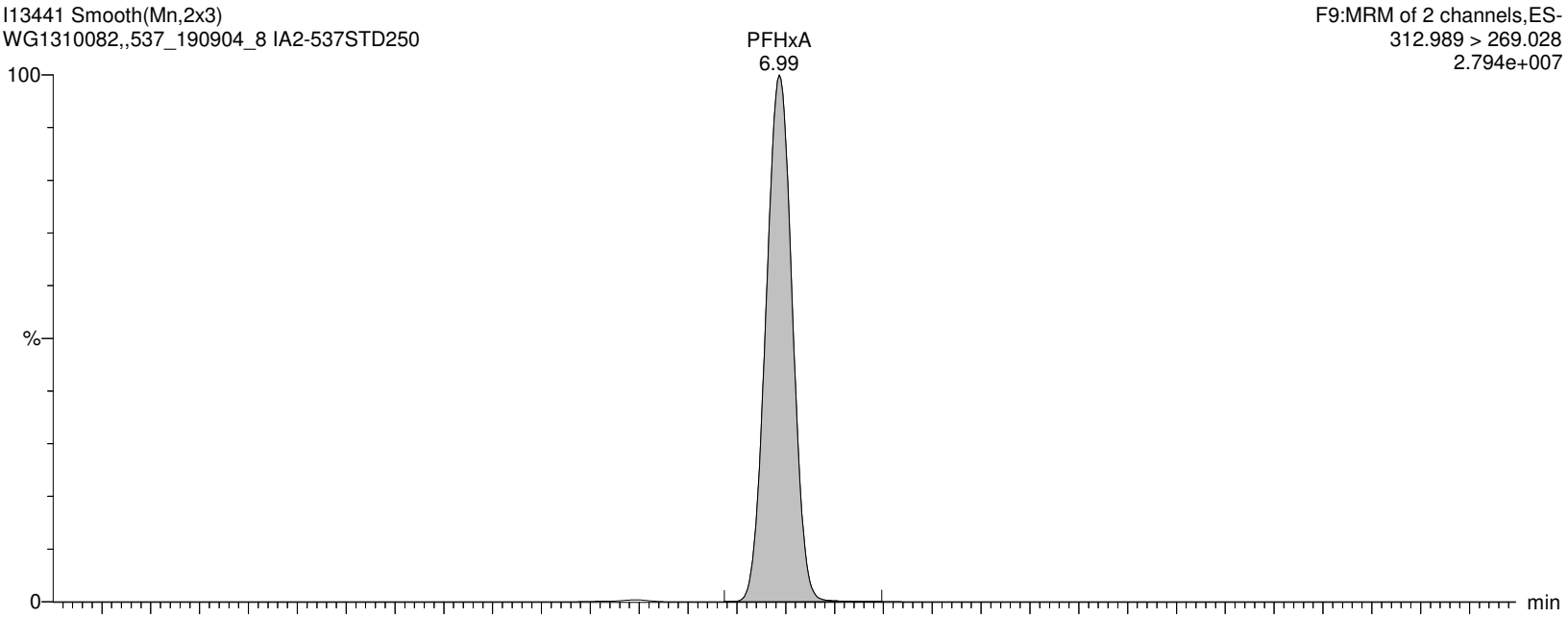

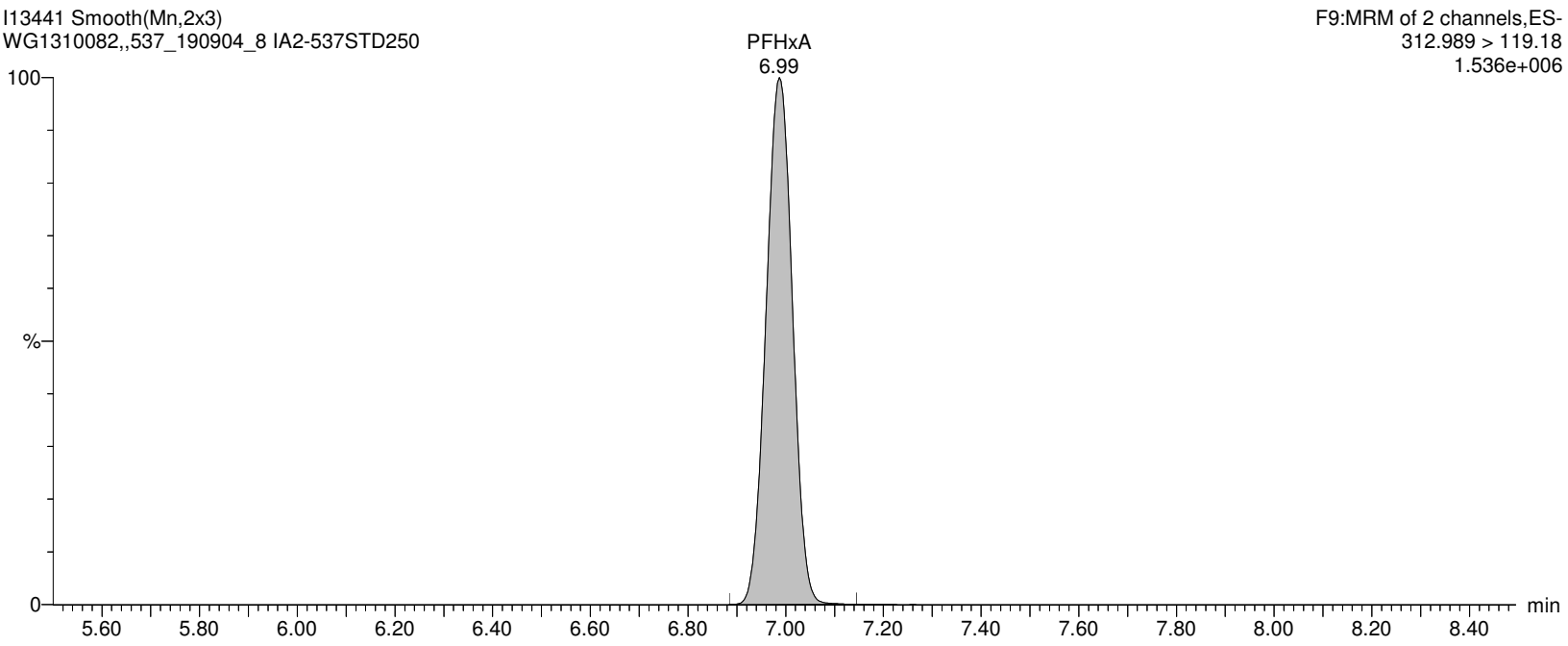

all concentration units in (ng/mL)

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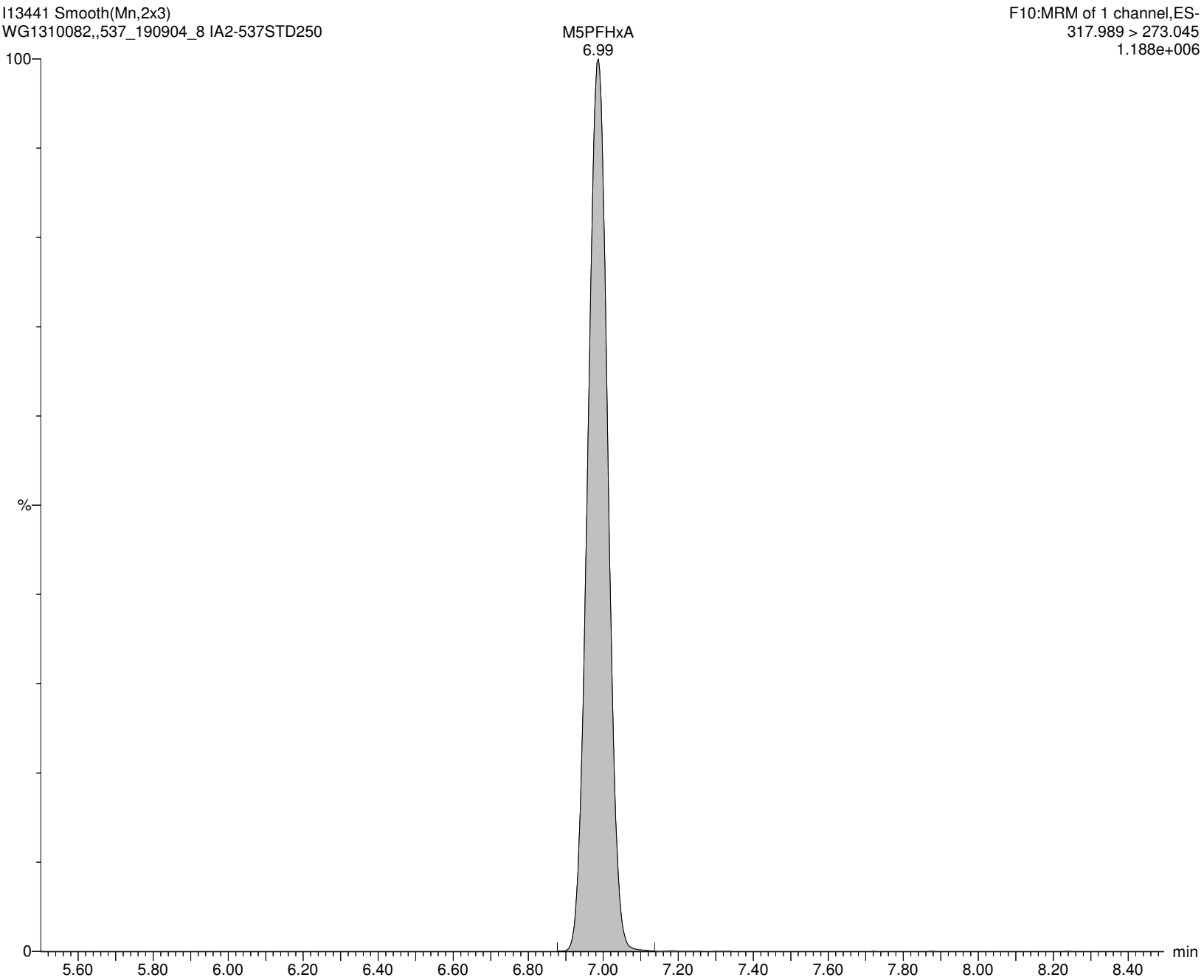

all concentration units in (ng/mL)

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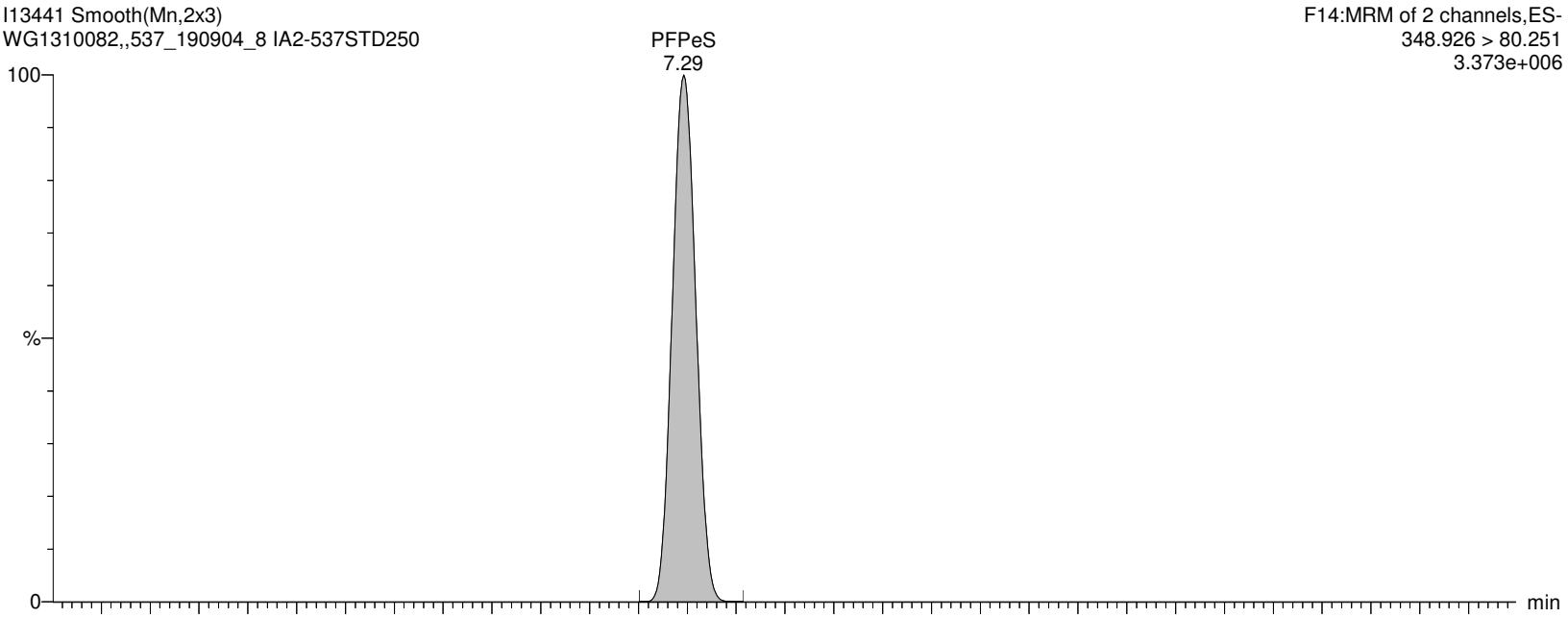

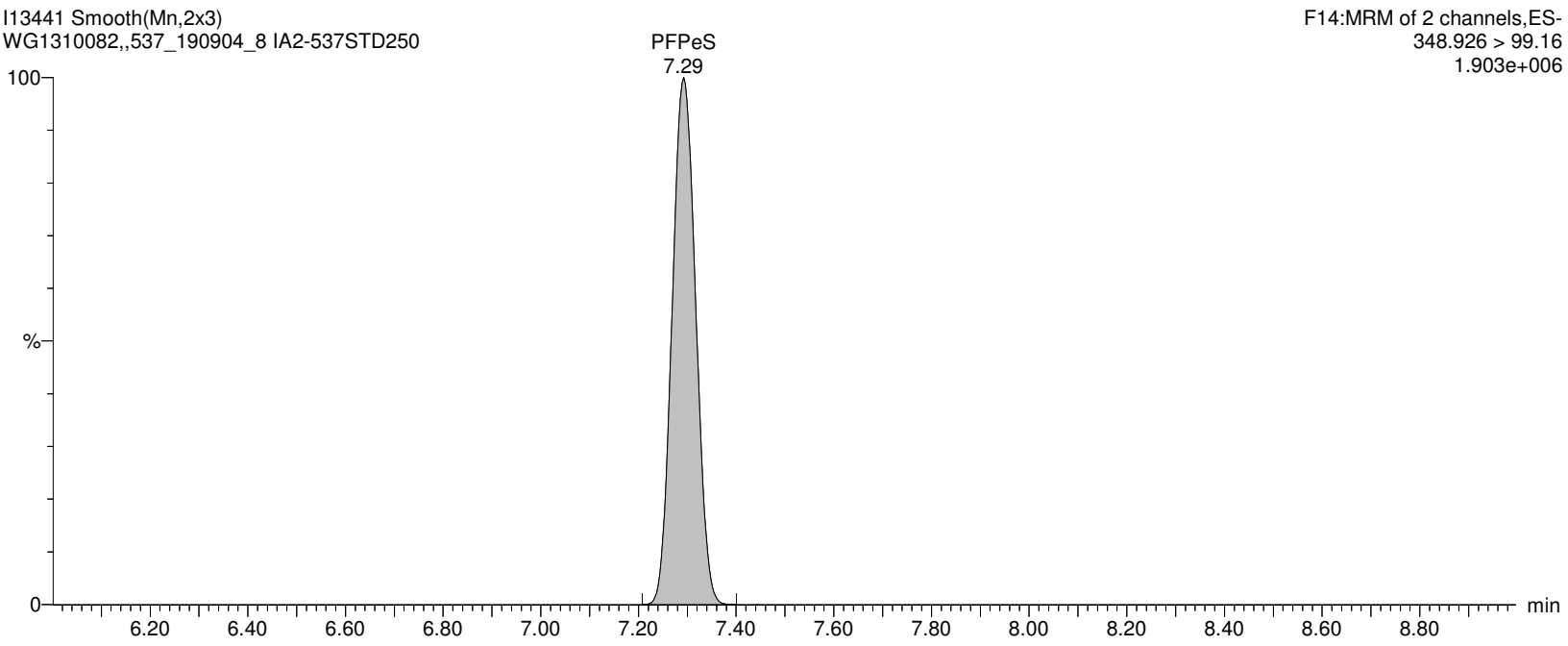

all concentration units in (ng/mL)

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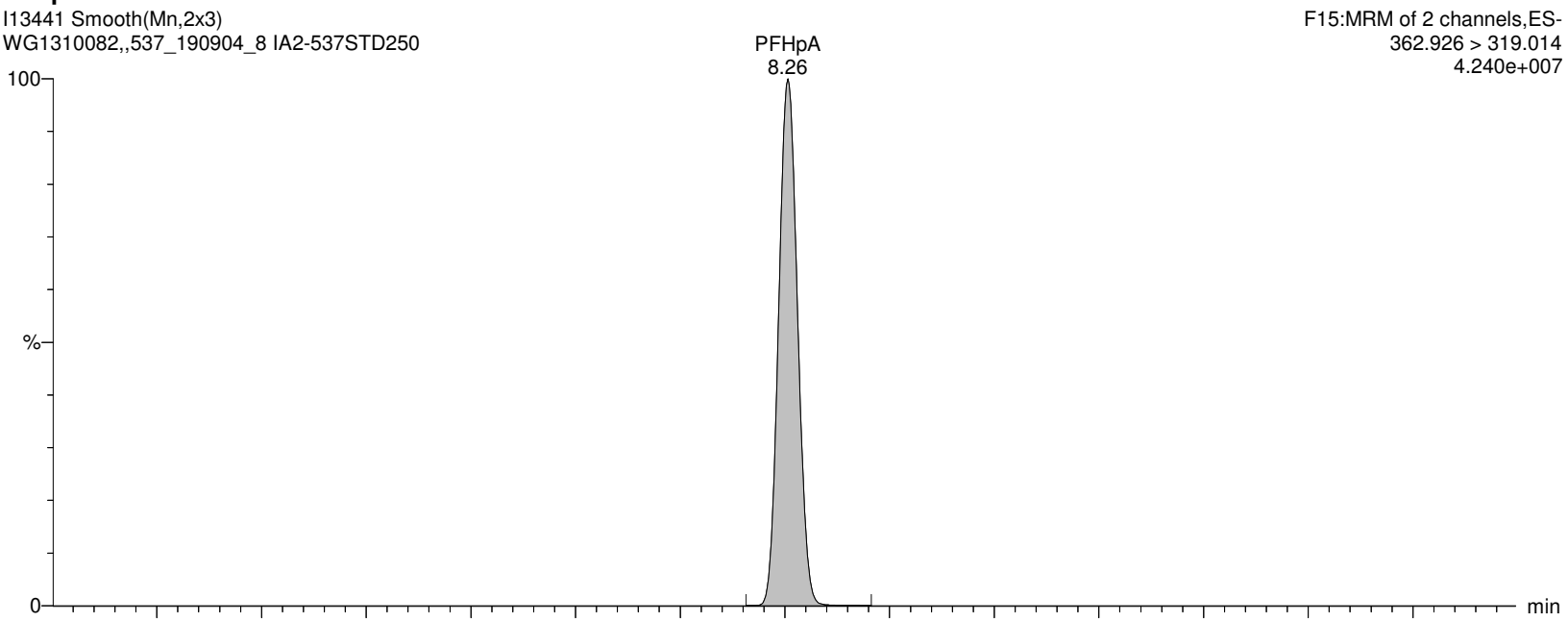

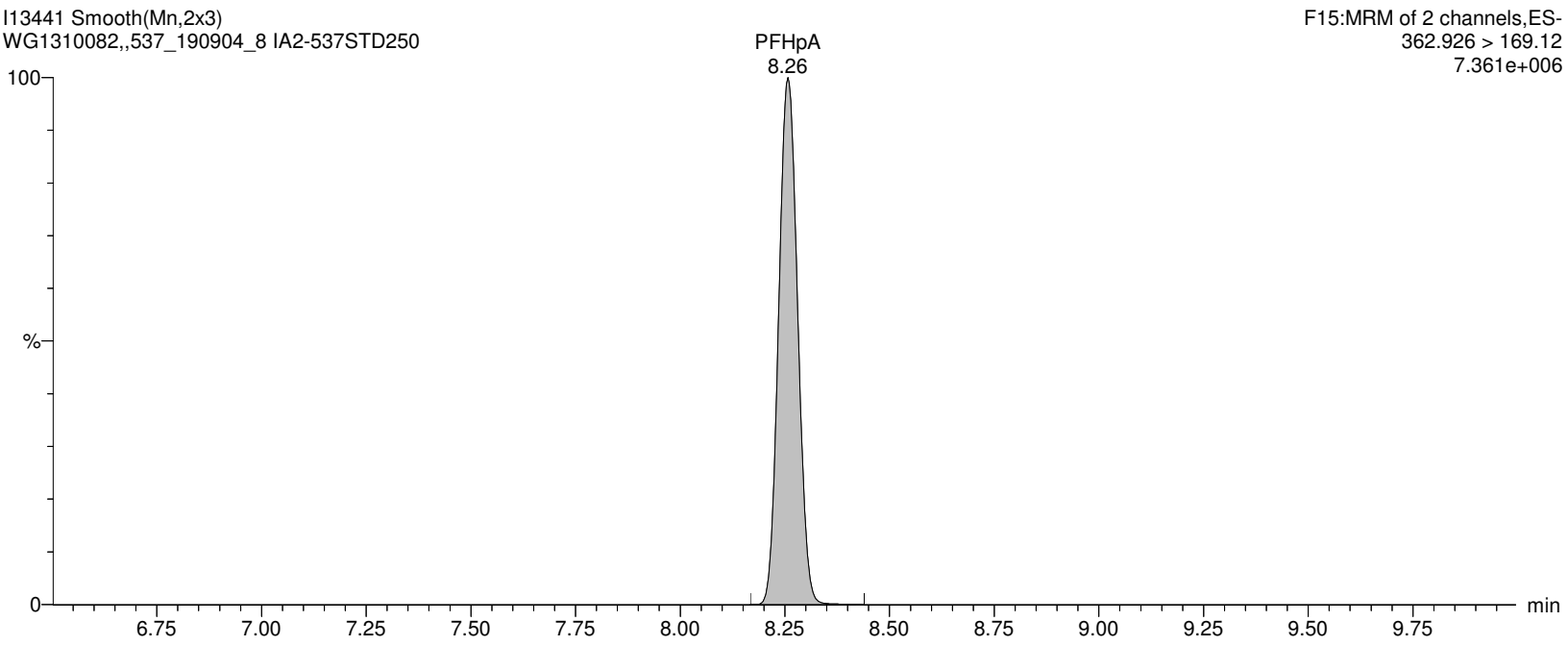

all concentration units in (ng/mL)

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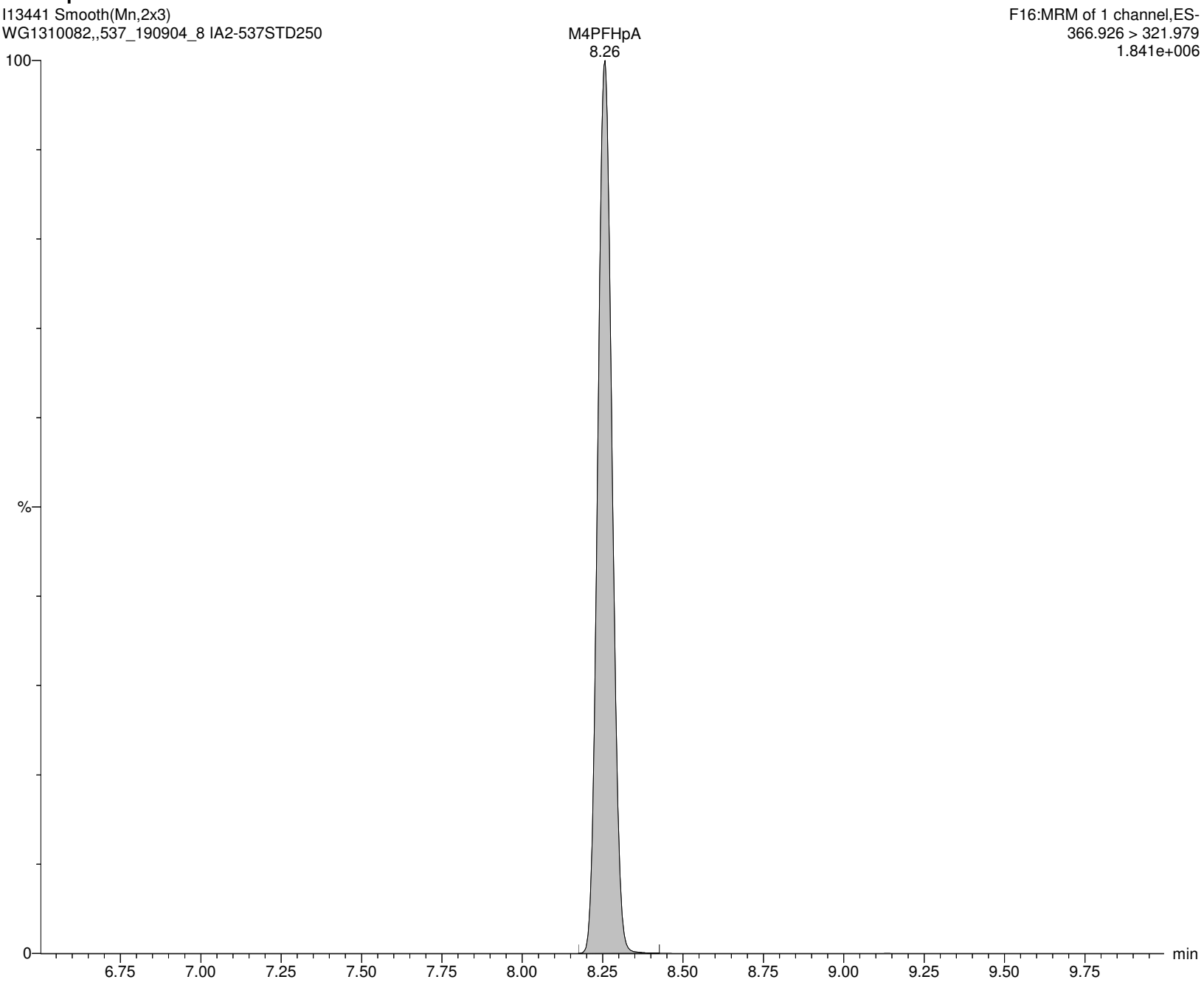

all concentration units in (ng/mL)

Alpha Analytical Inc.
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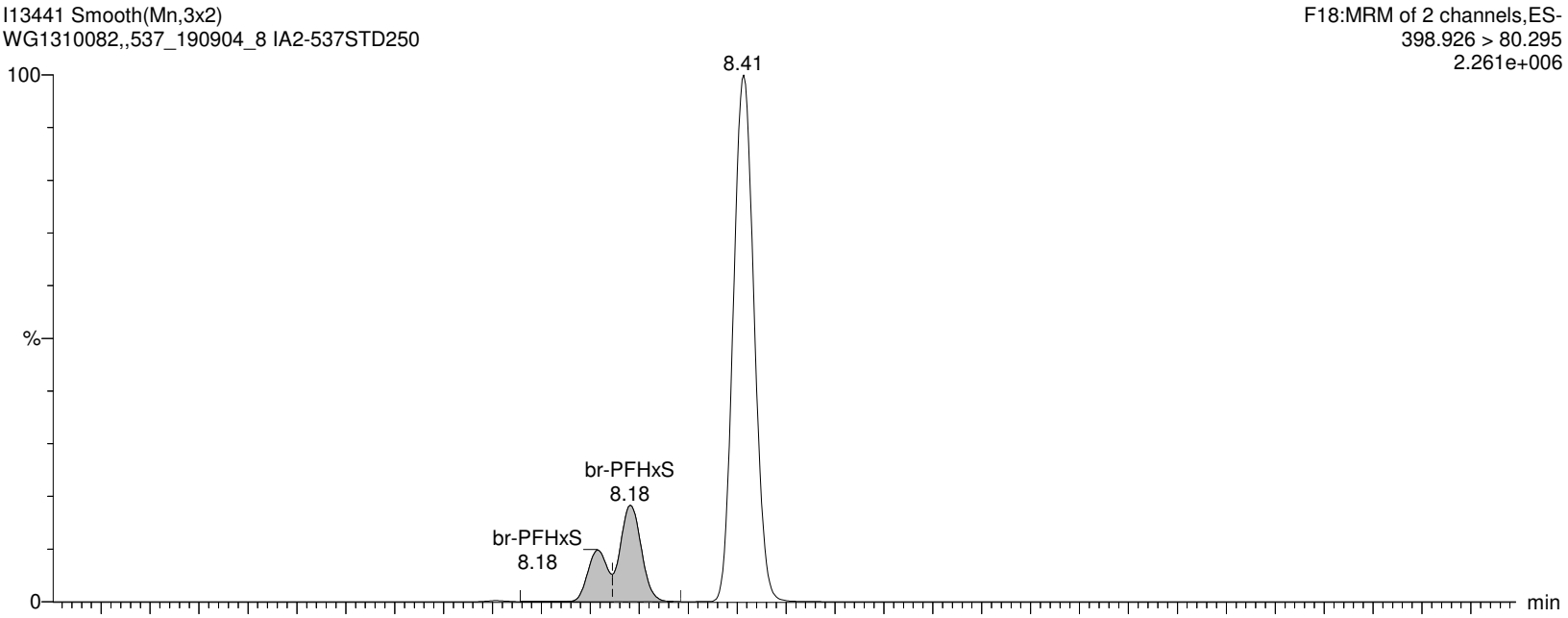

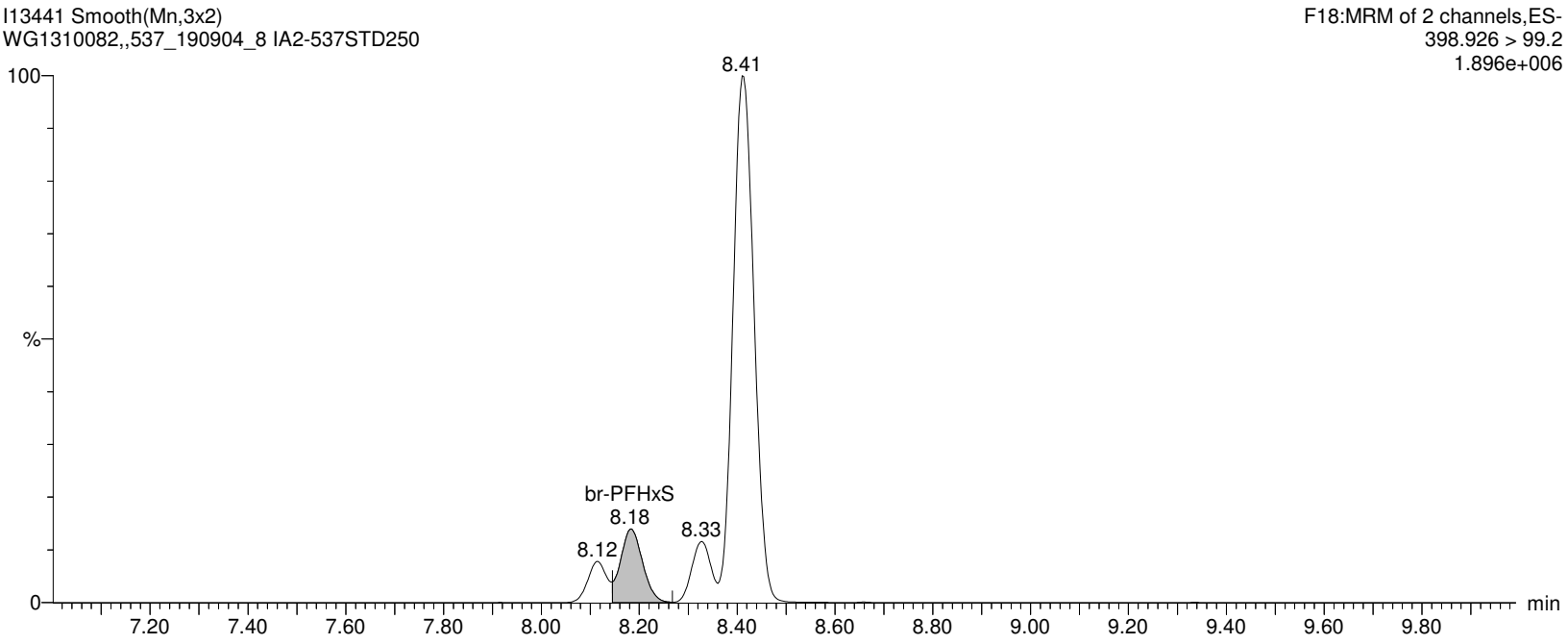

all concentration units in (ng/mL)

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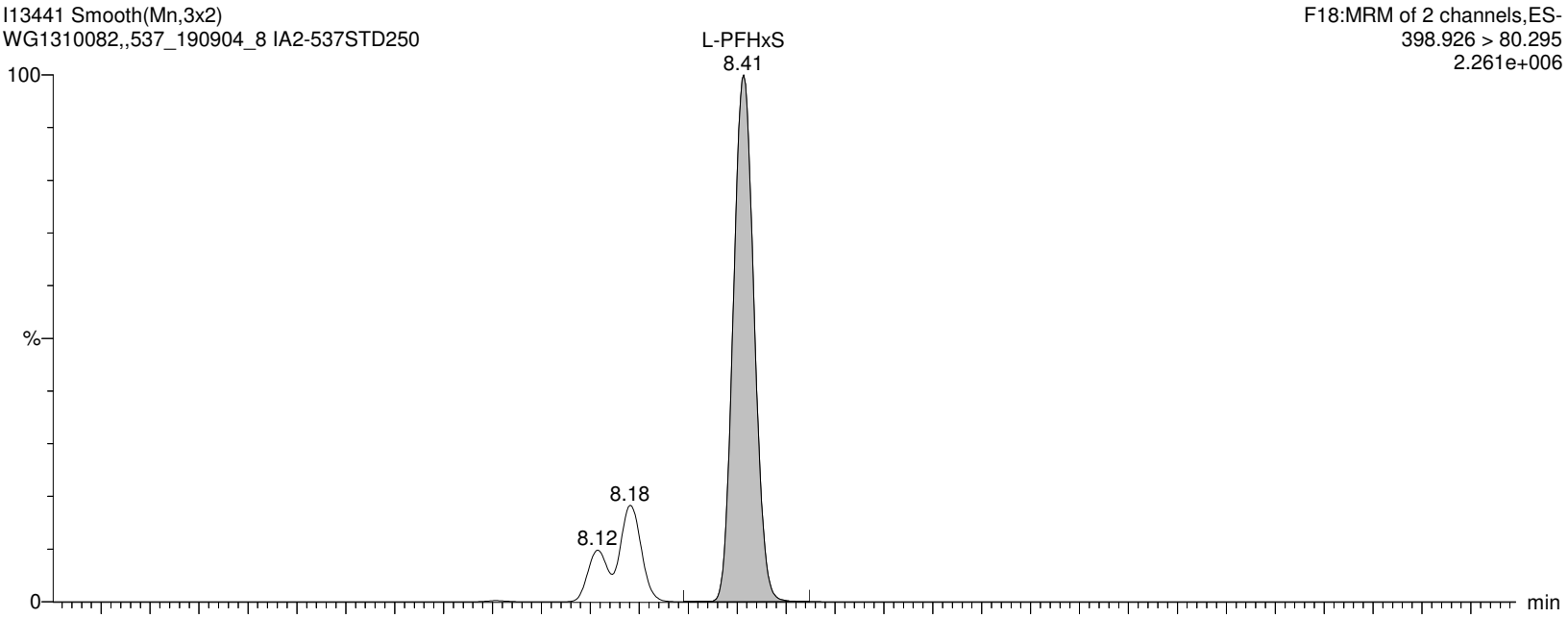

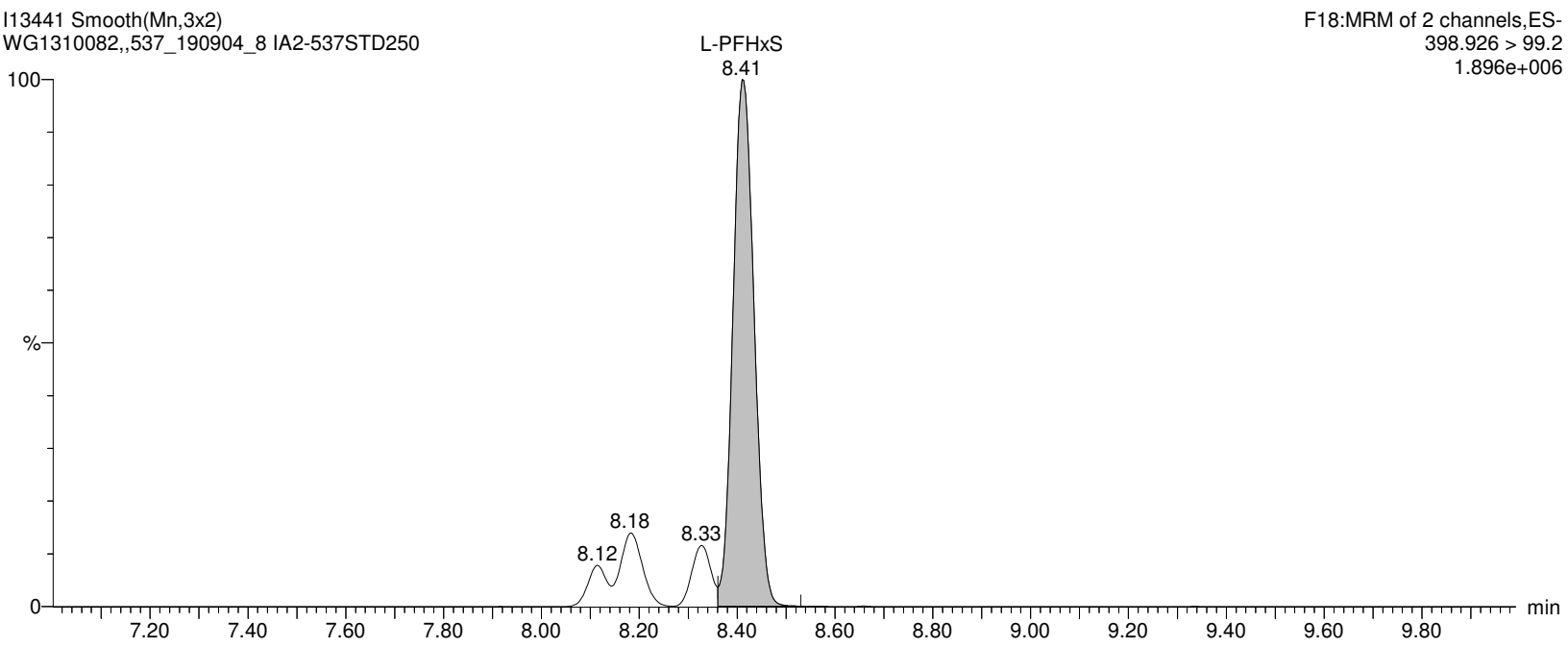

all concentration units in (ng/mL)

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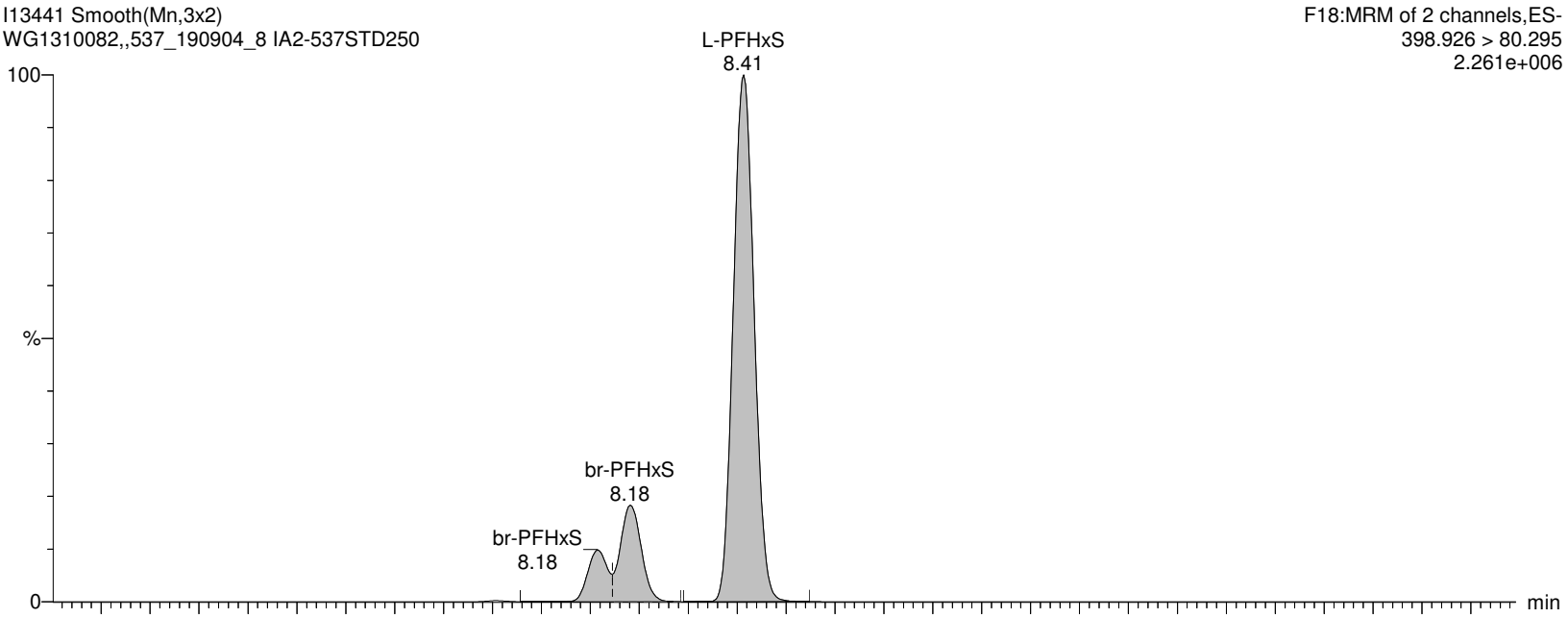

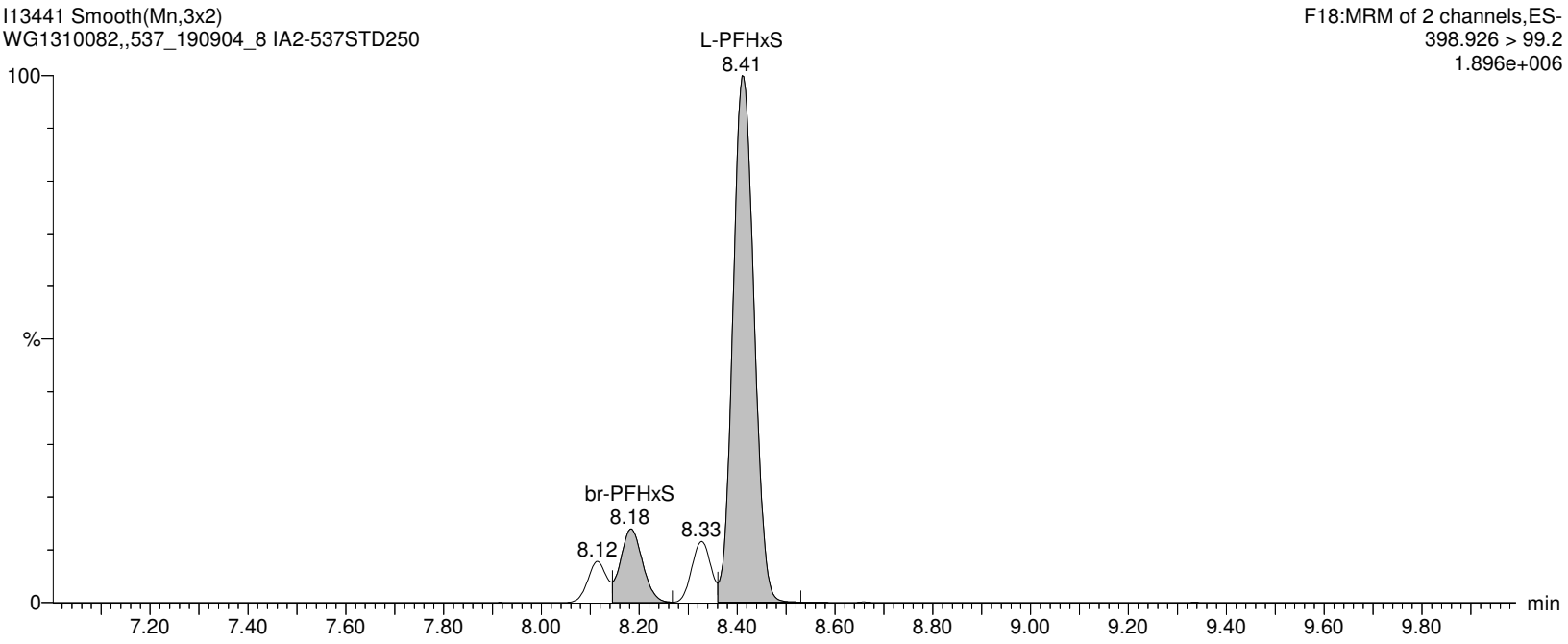

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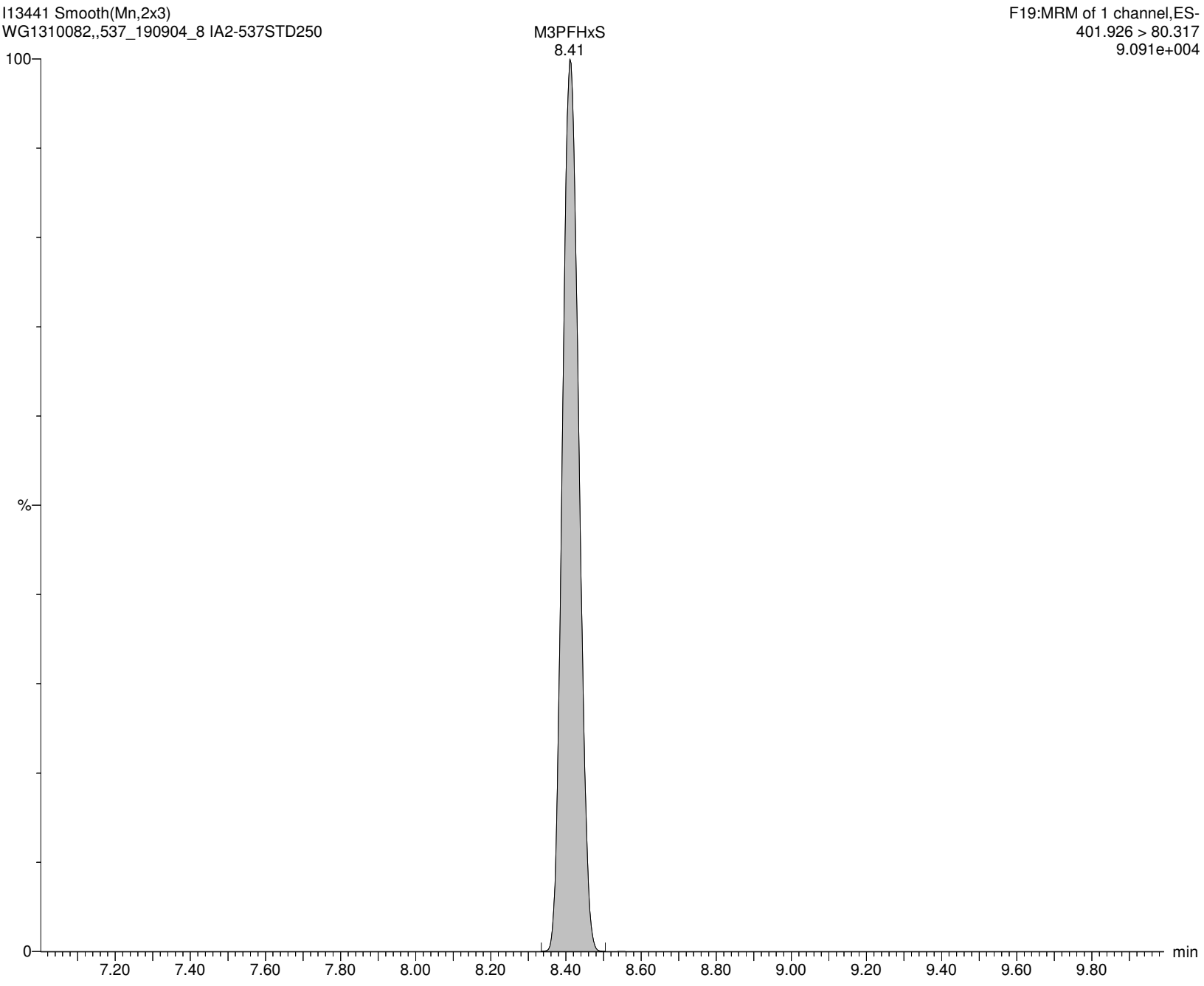

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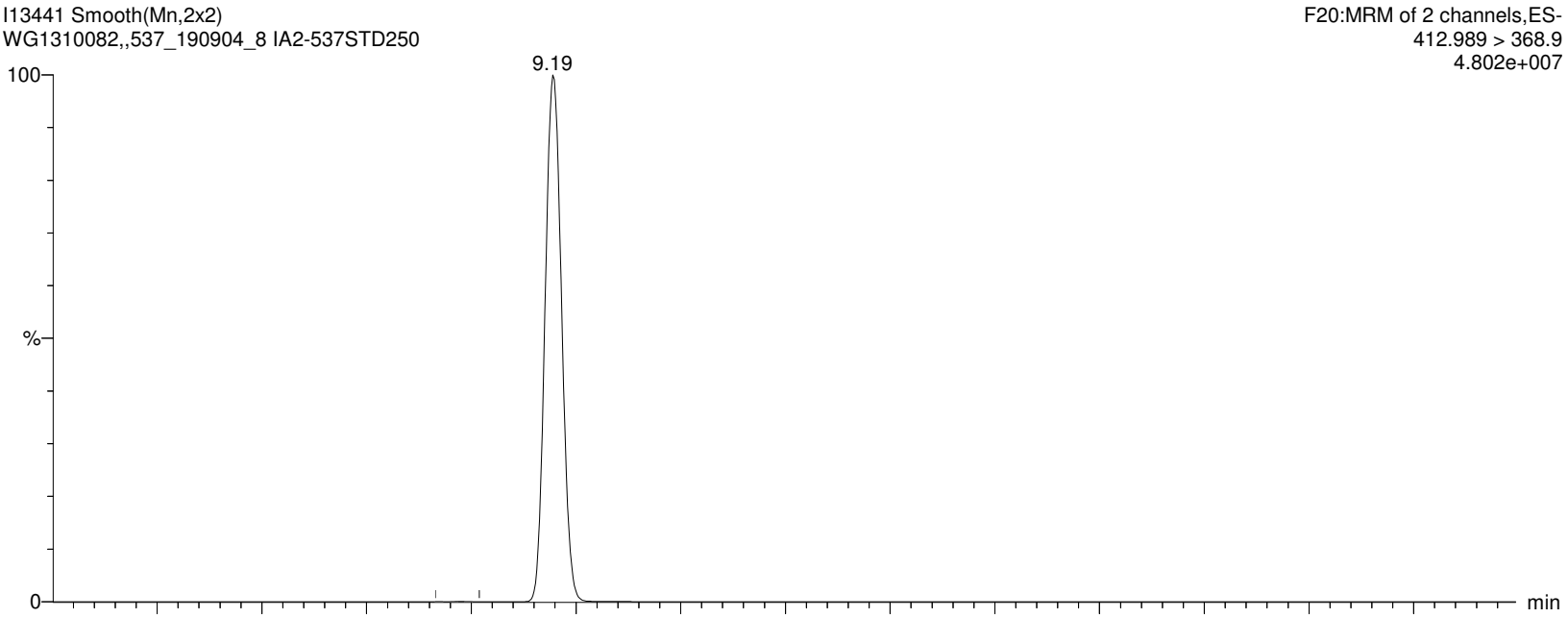

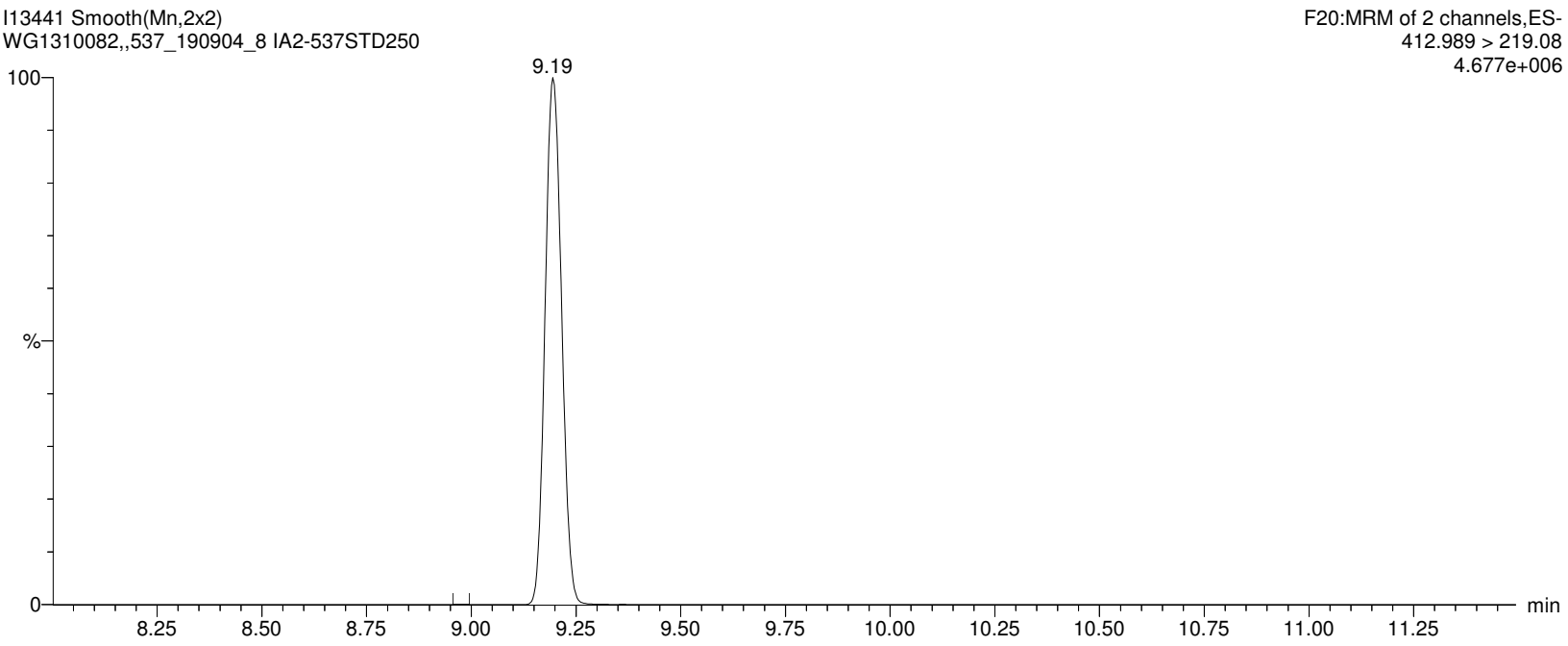

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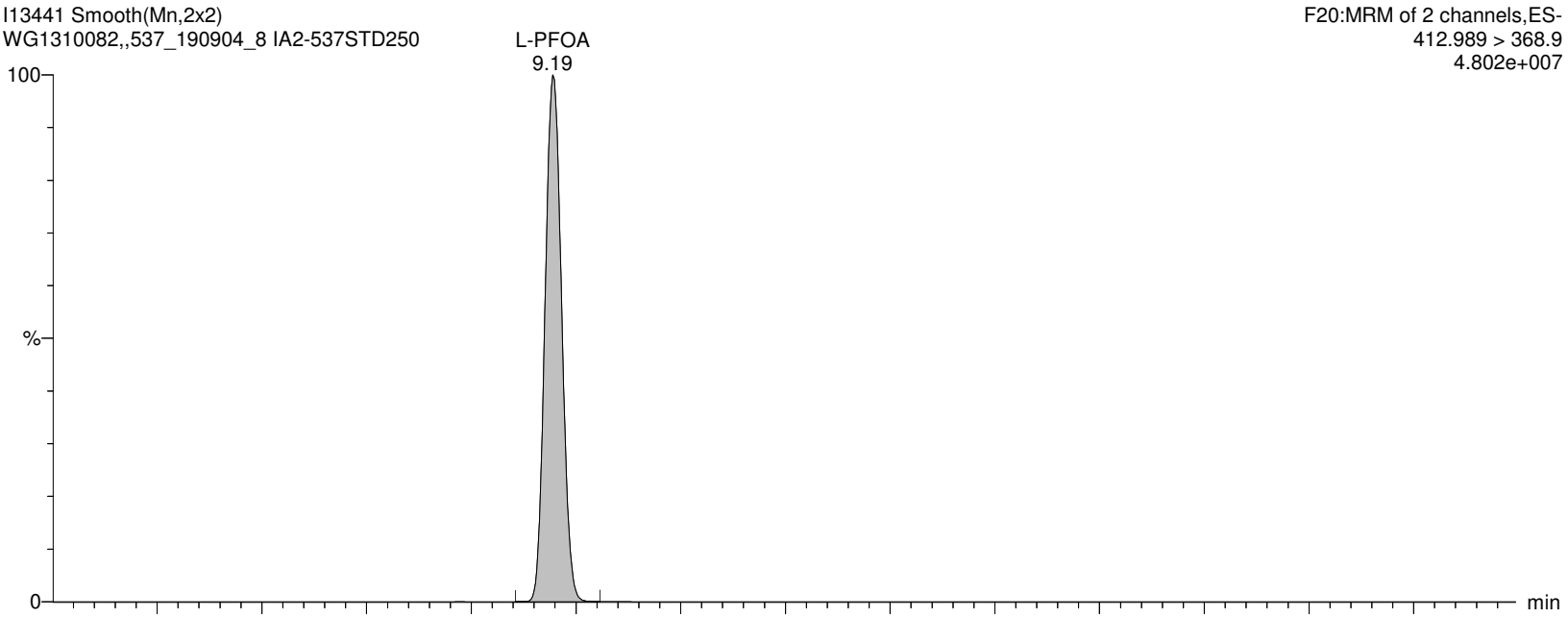

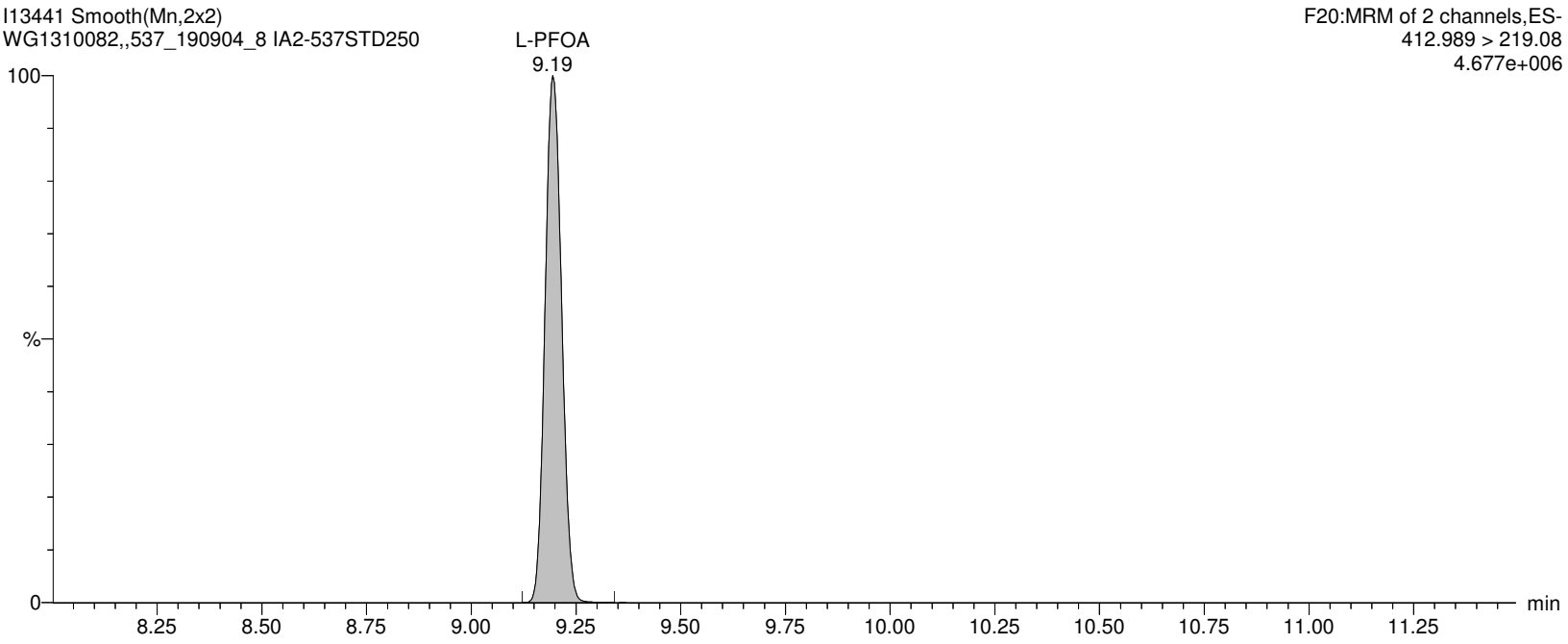

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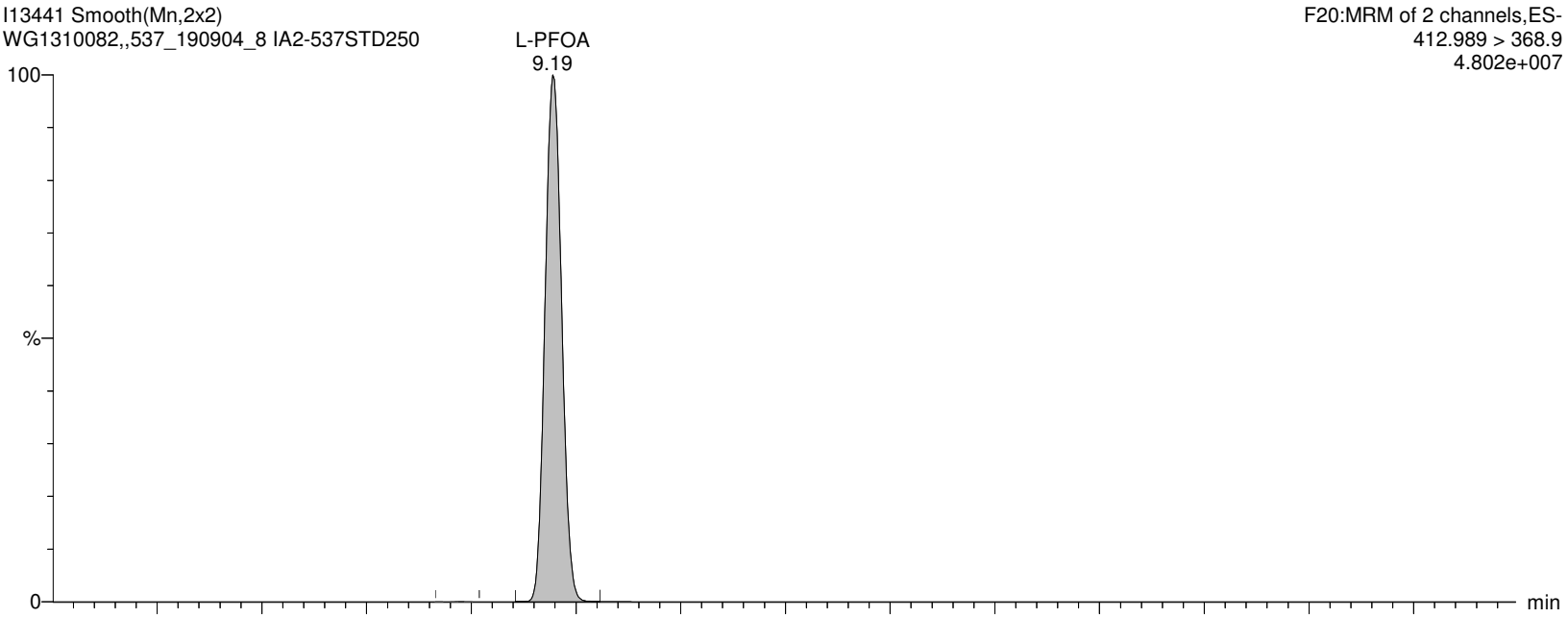

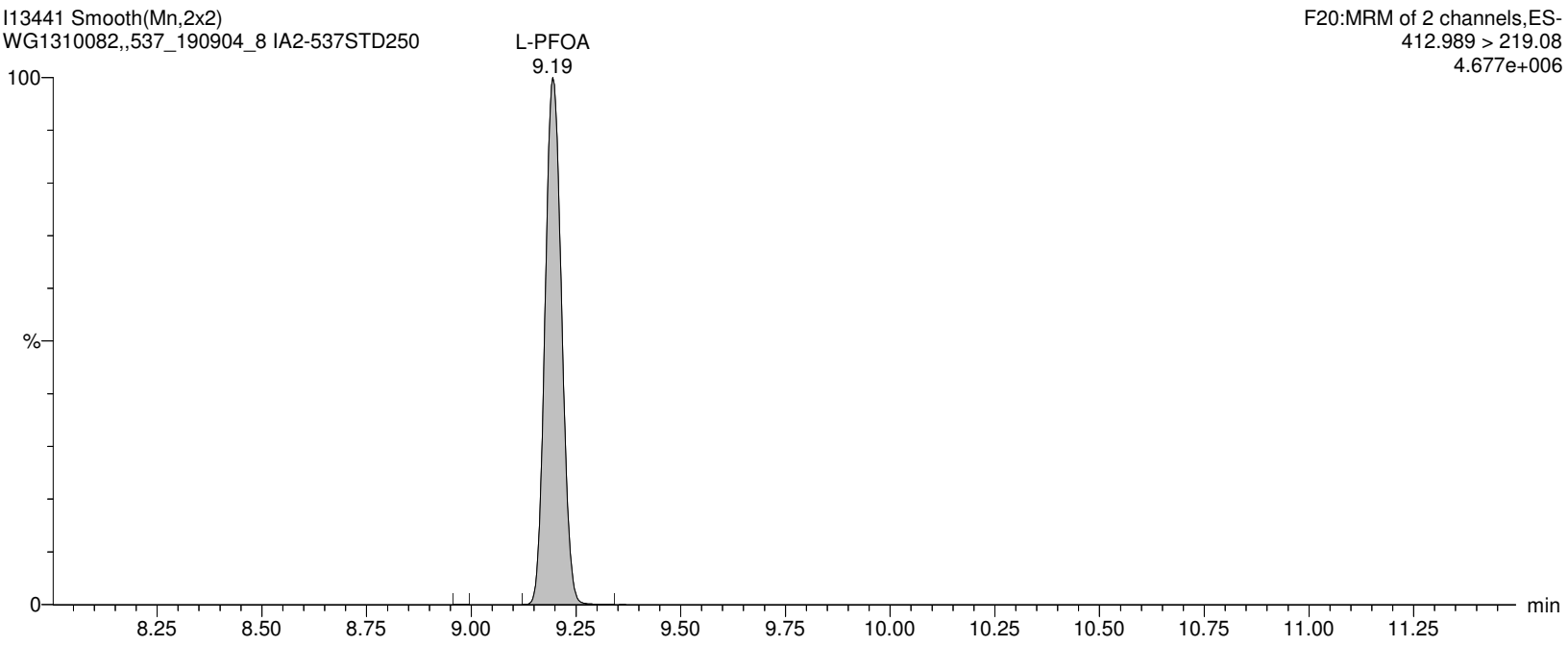

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:03 Eastern Standard Time

Name: I13441
ID: IA2-537STD250
Date: 18-Nov-2019
Time: 12:33:16
Description: WG1310082,,537_190904_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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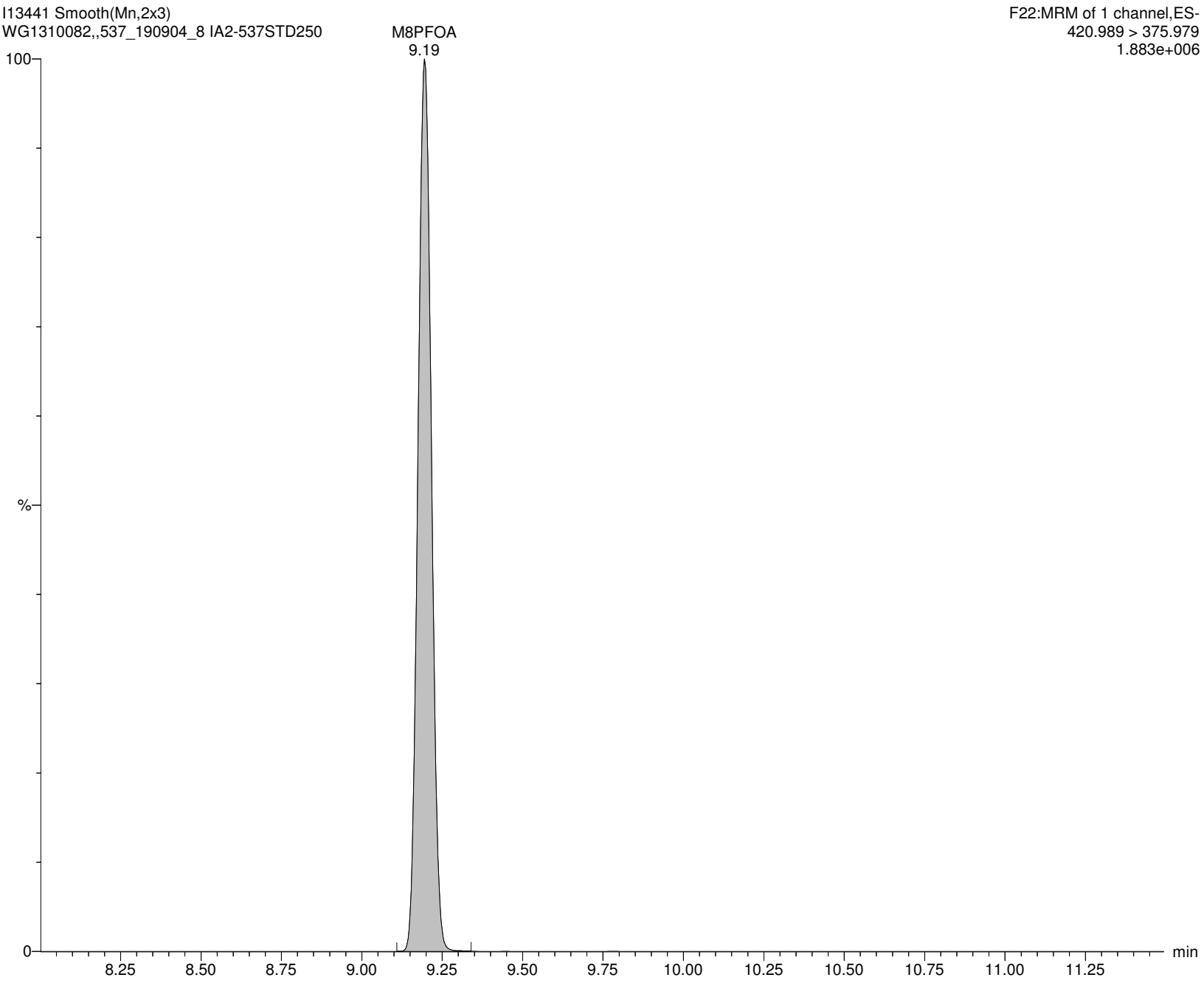

all concentration units in (ng/mL)

Alpha Analytical Inc.
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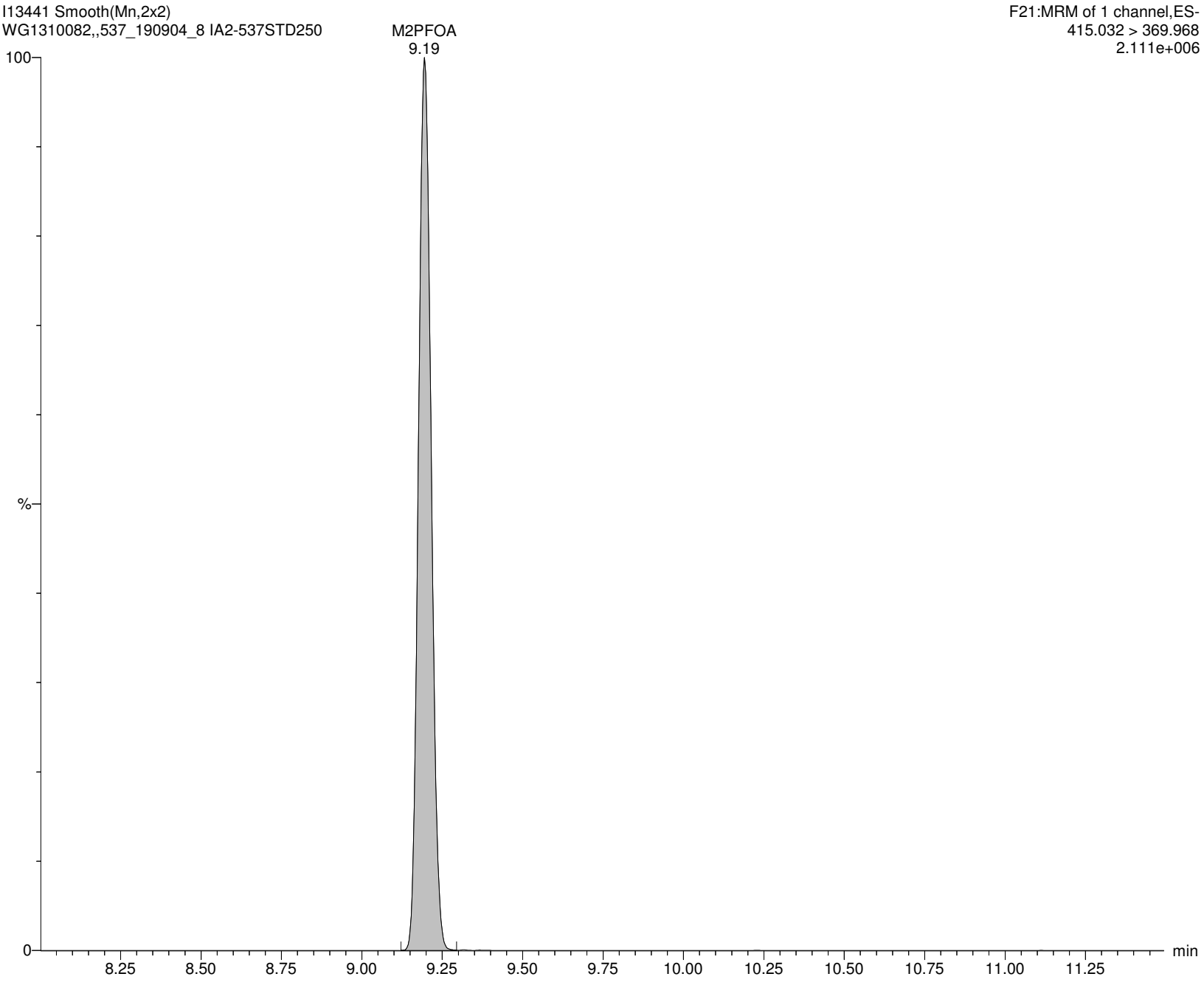

all concentration units in (ng/mL)

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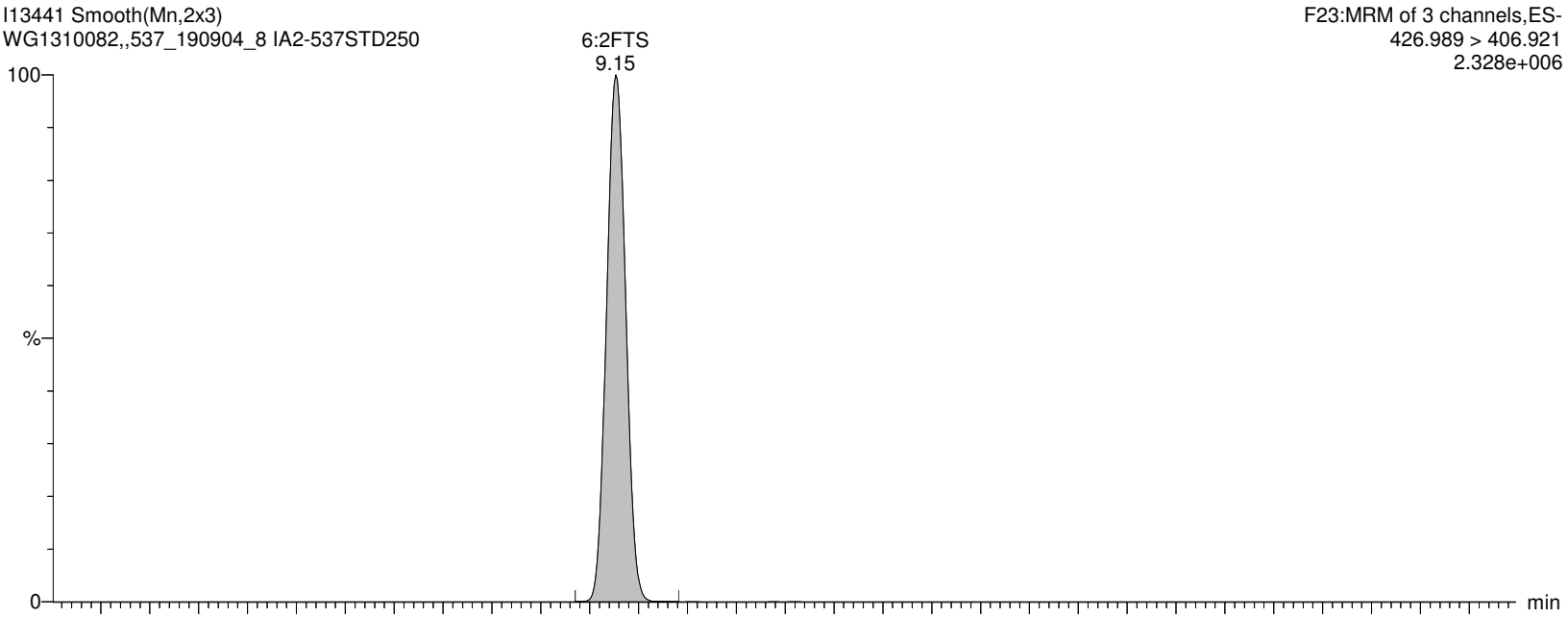

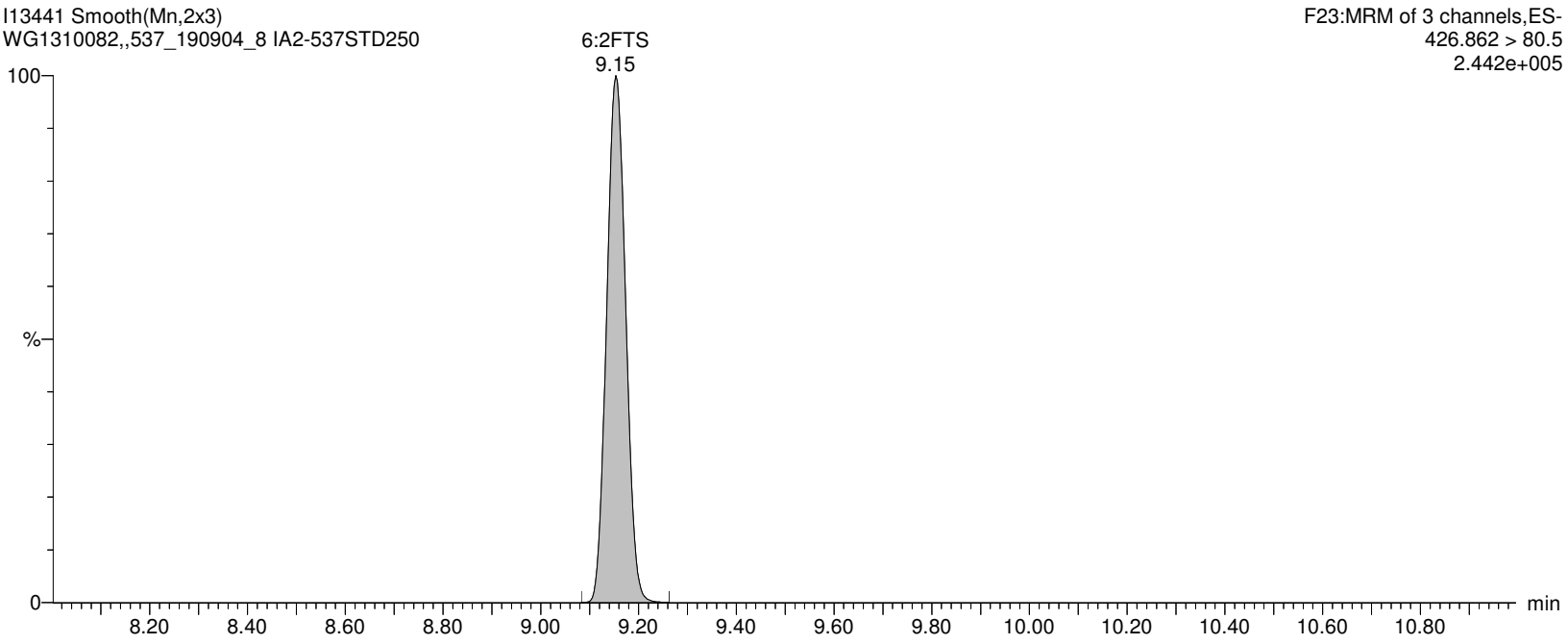

all concentration units in (ng/mL)

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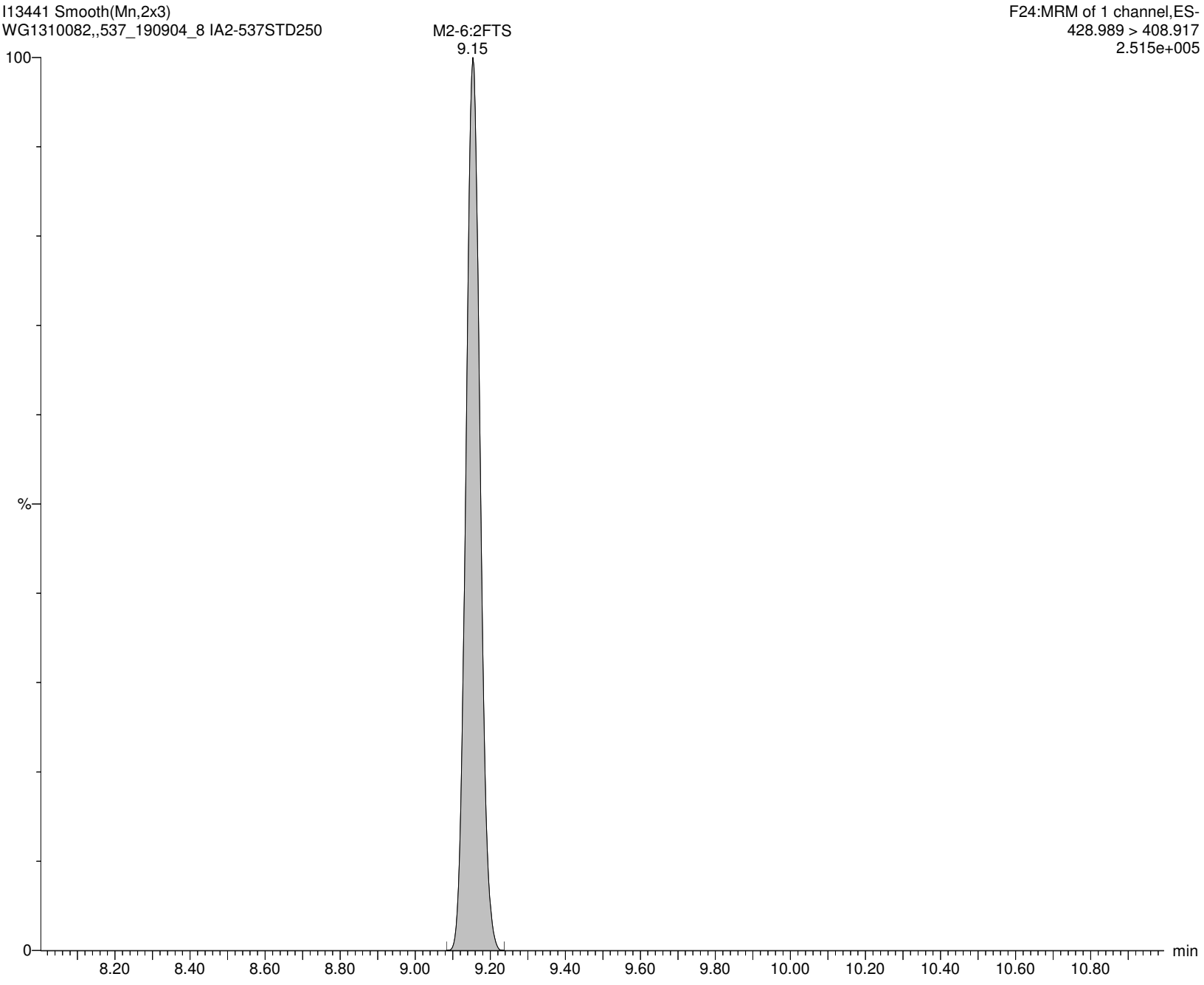

all concentration units in (ng/mL)

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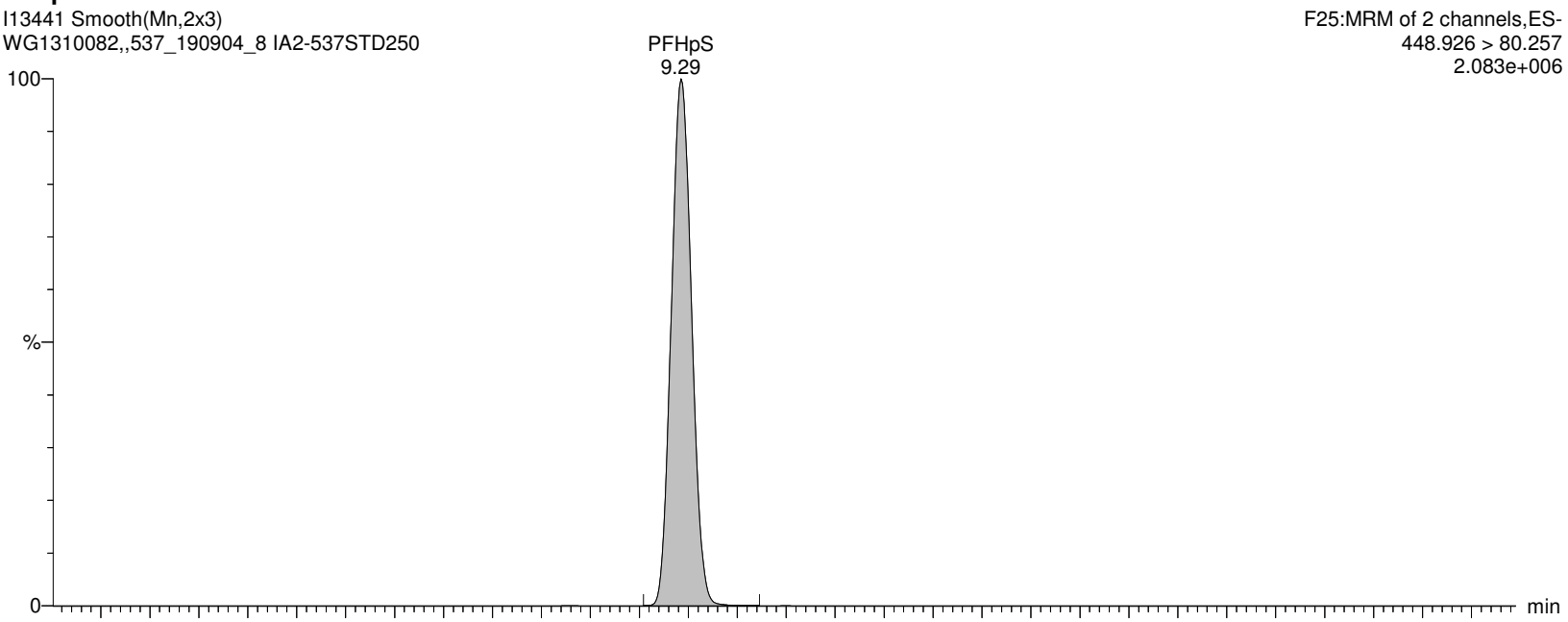

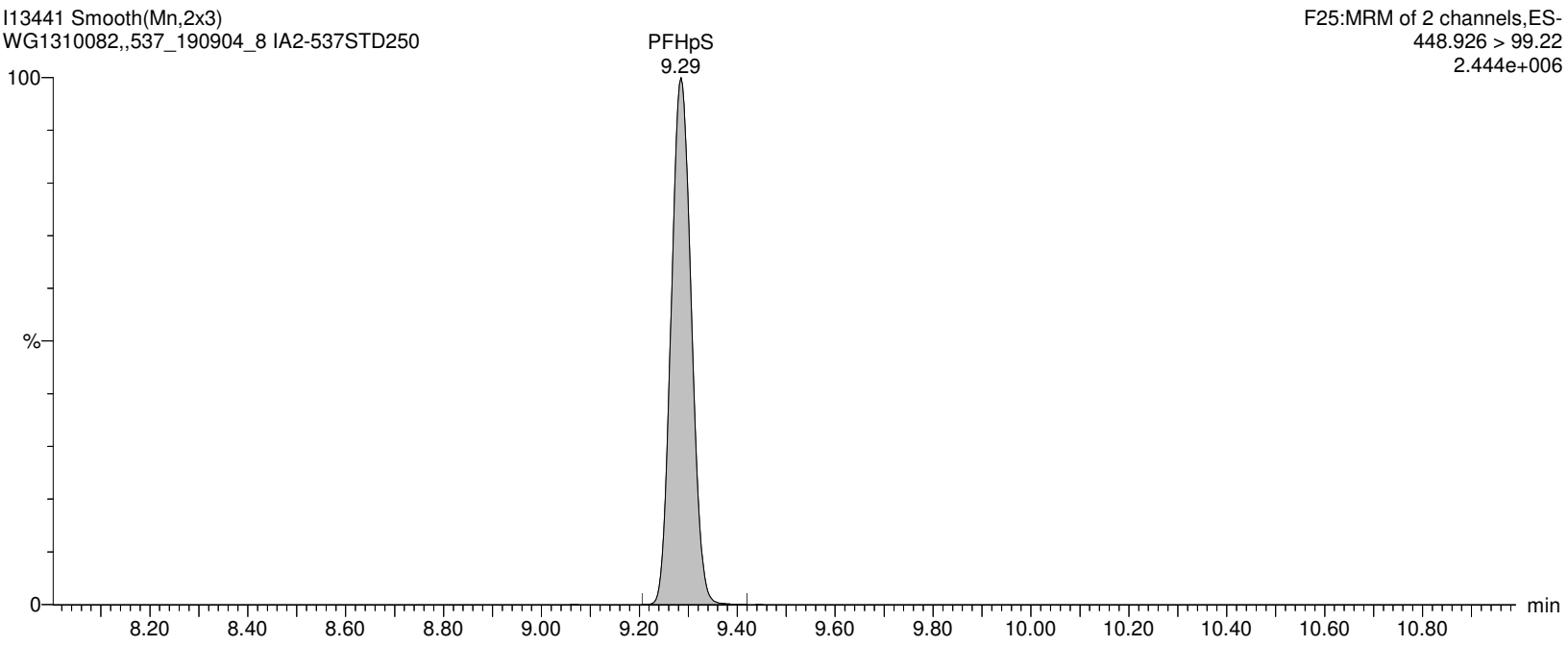

all concentration units in (ng/mL)

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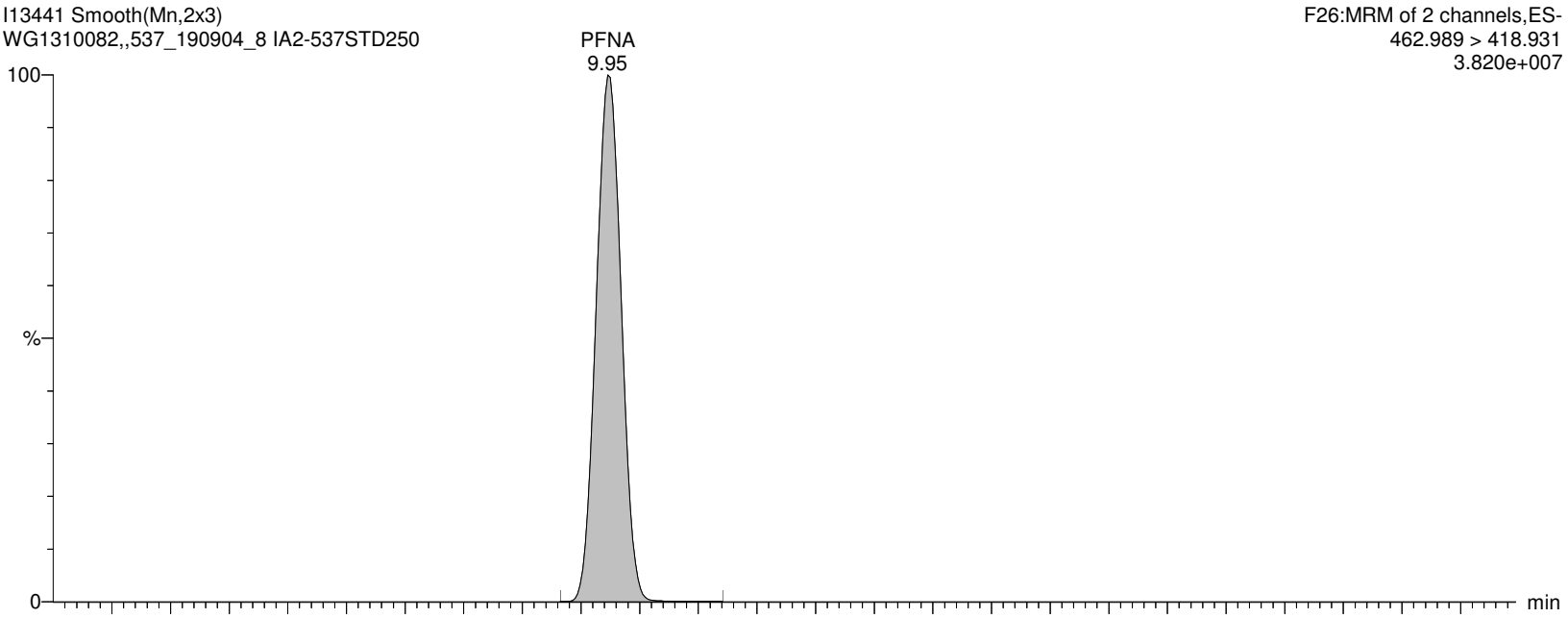

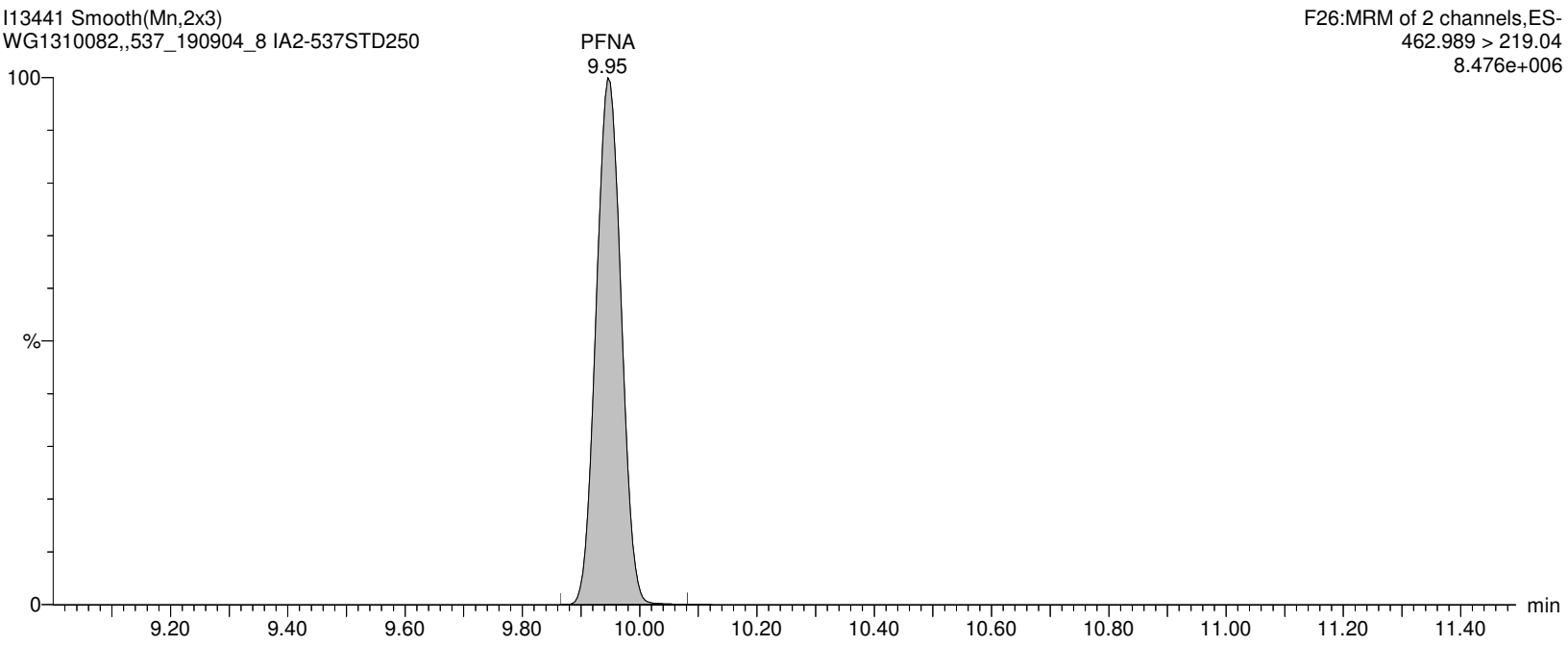

all concentration units in (ng/mL)

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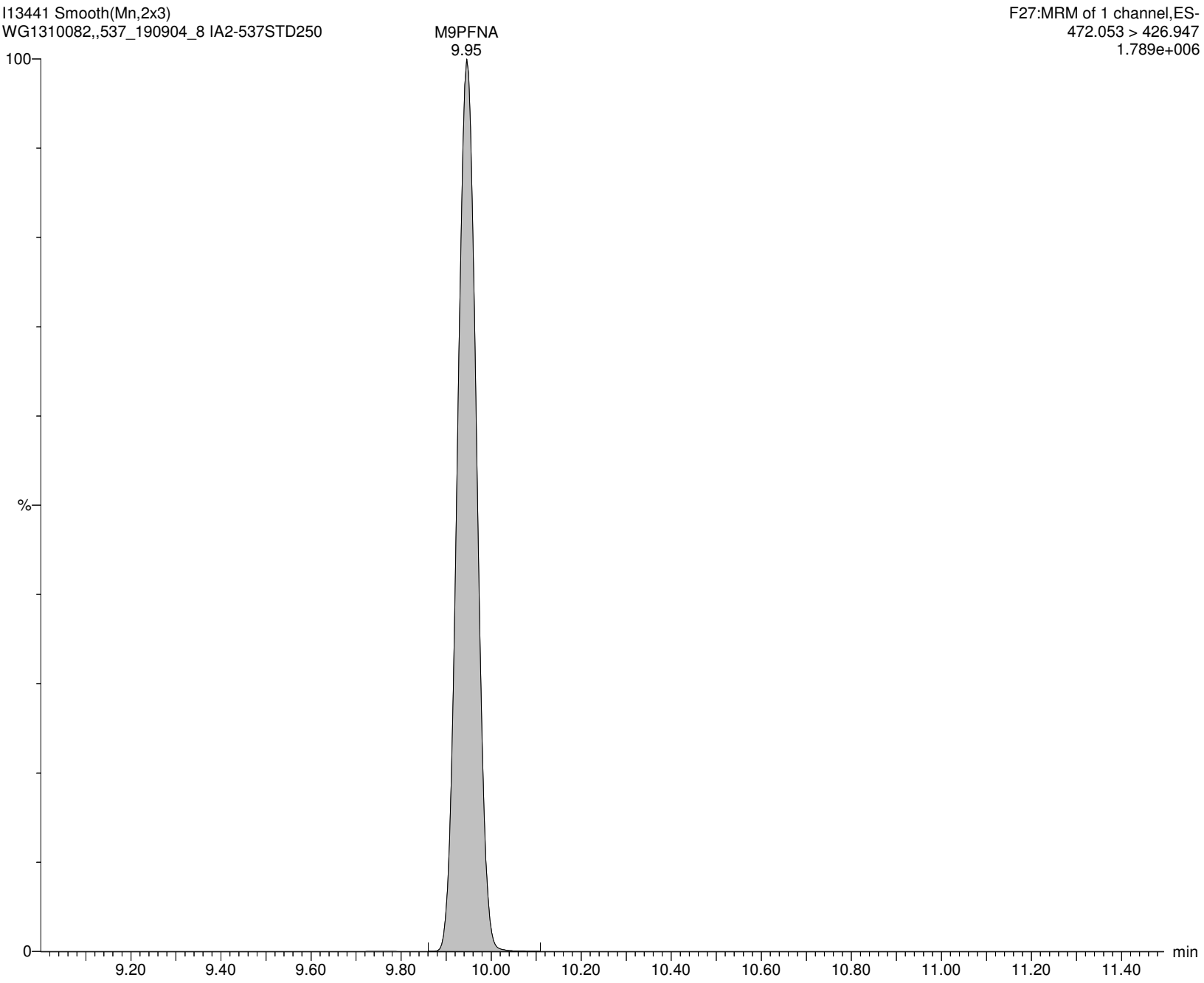

all concentration units in (ng/mL)

Alpha Analytical Inc.
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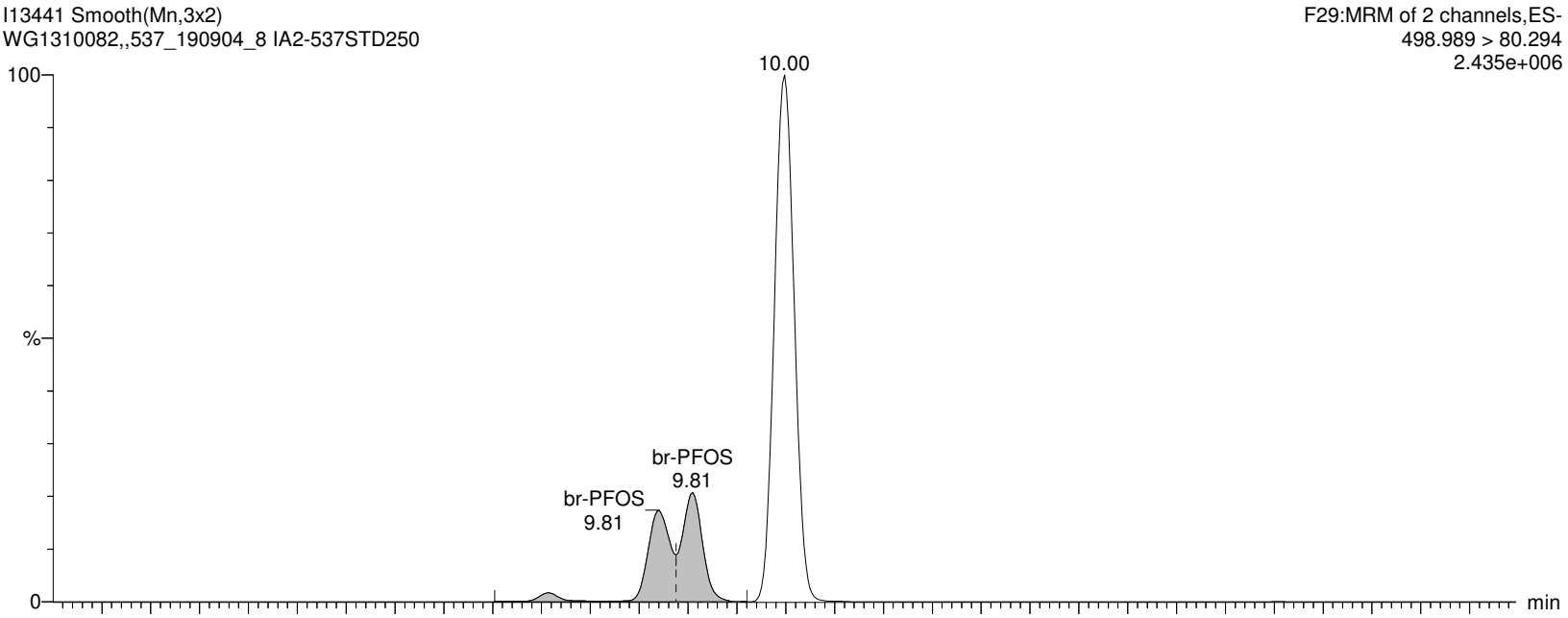

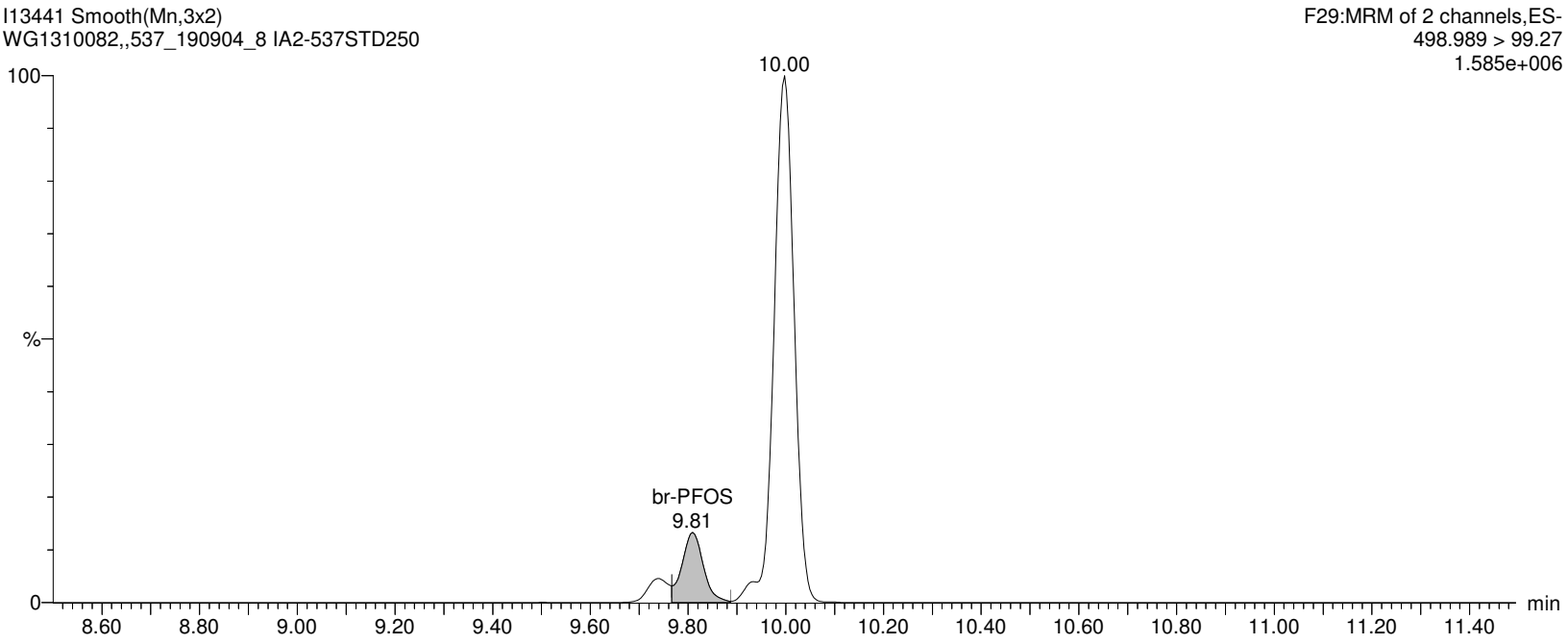

all concentration units in (ng/mL)

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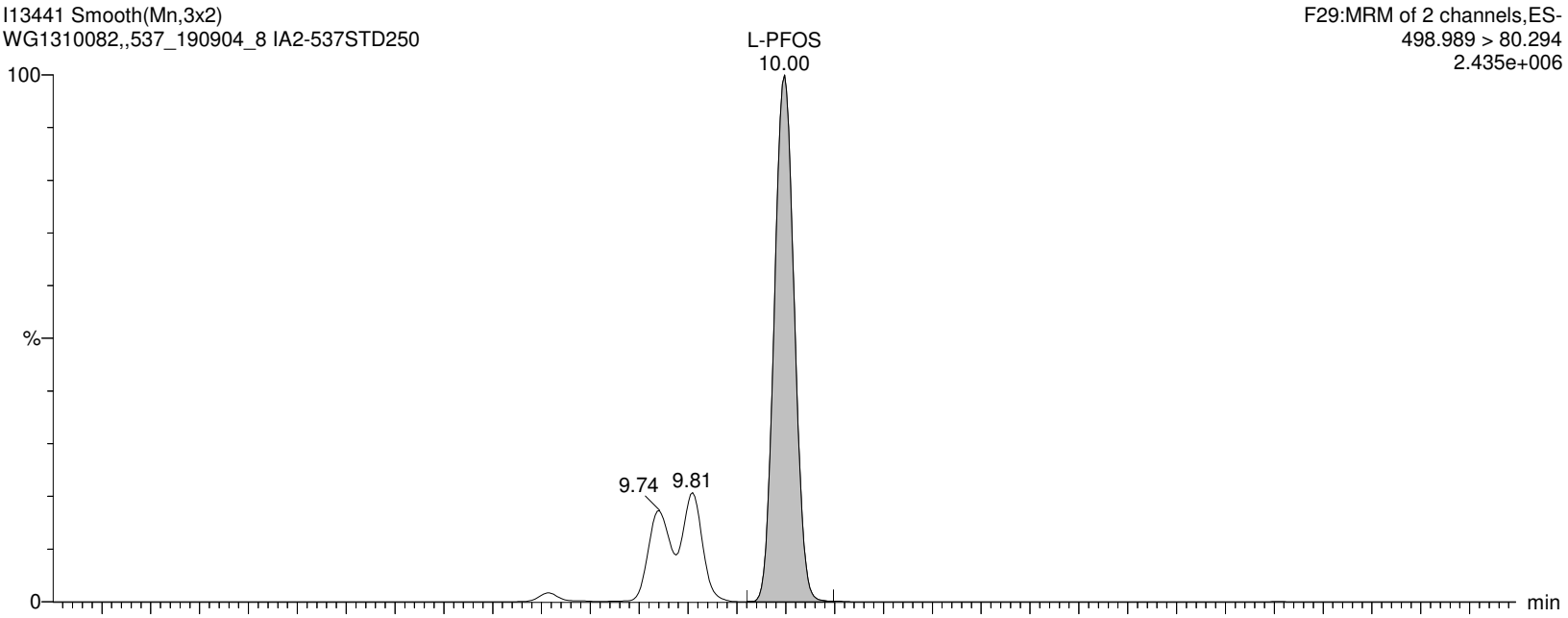

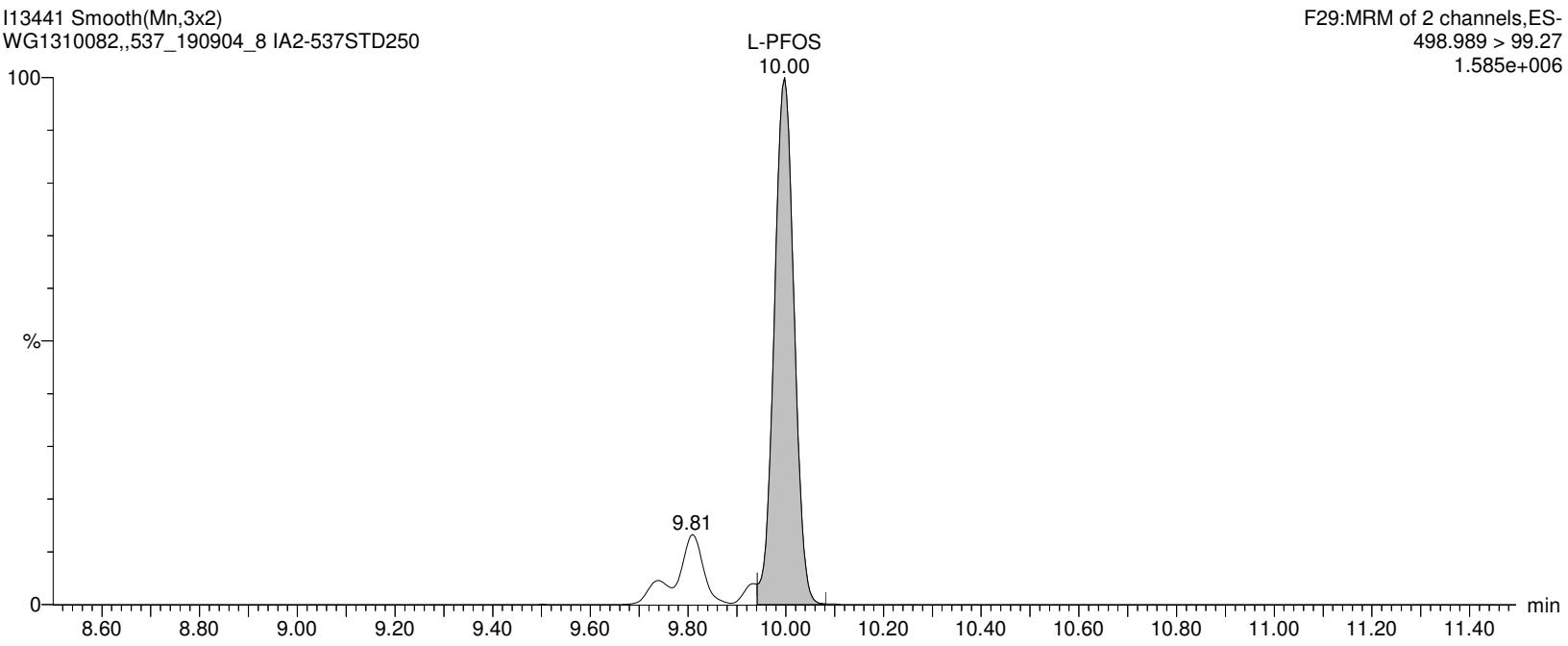

all concentration units in (ng/mL)

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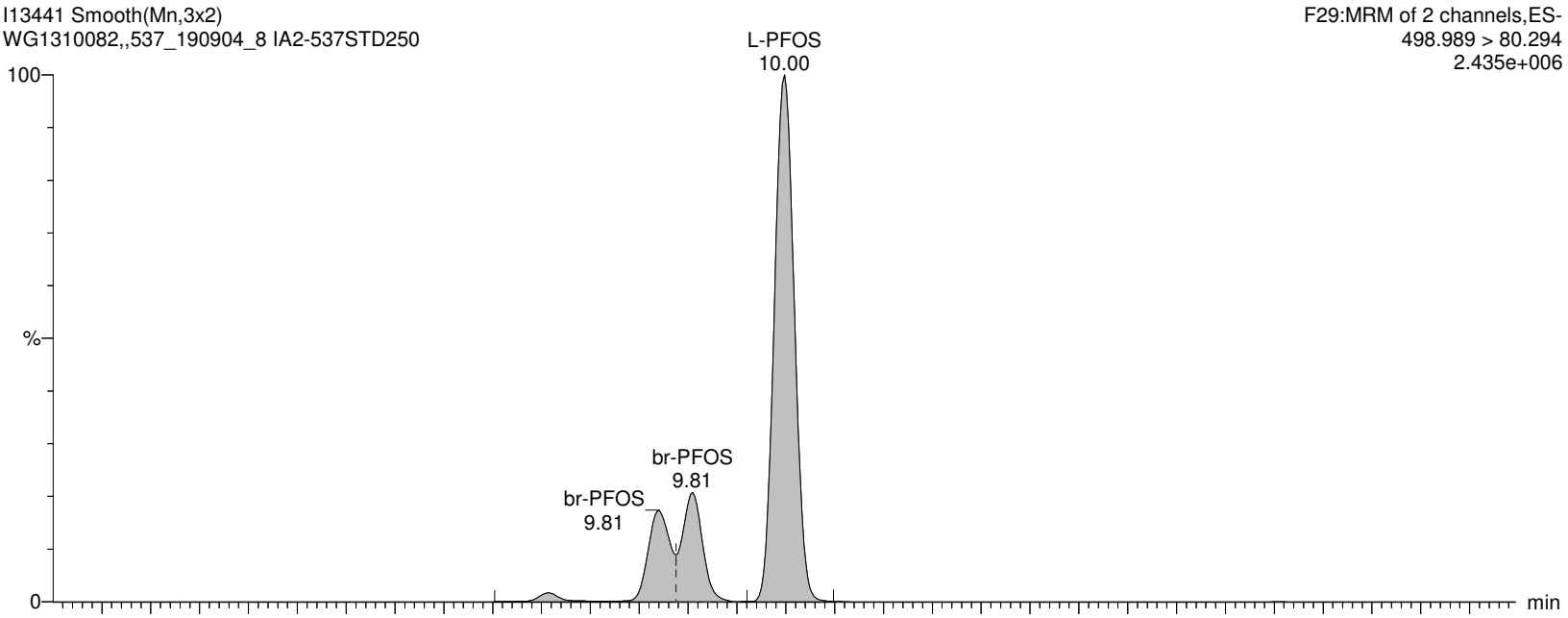

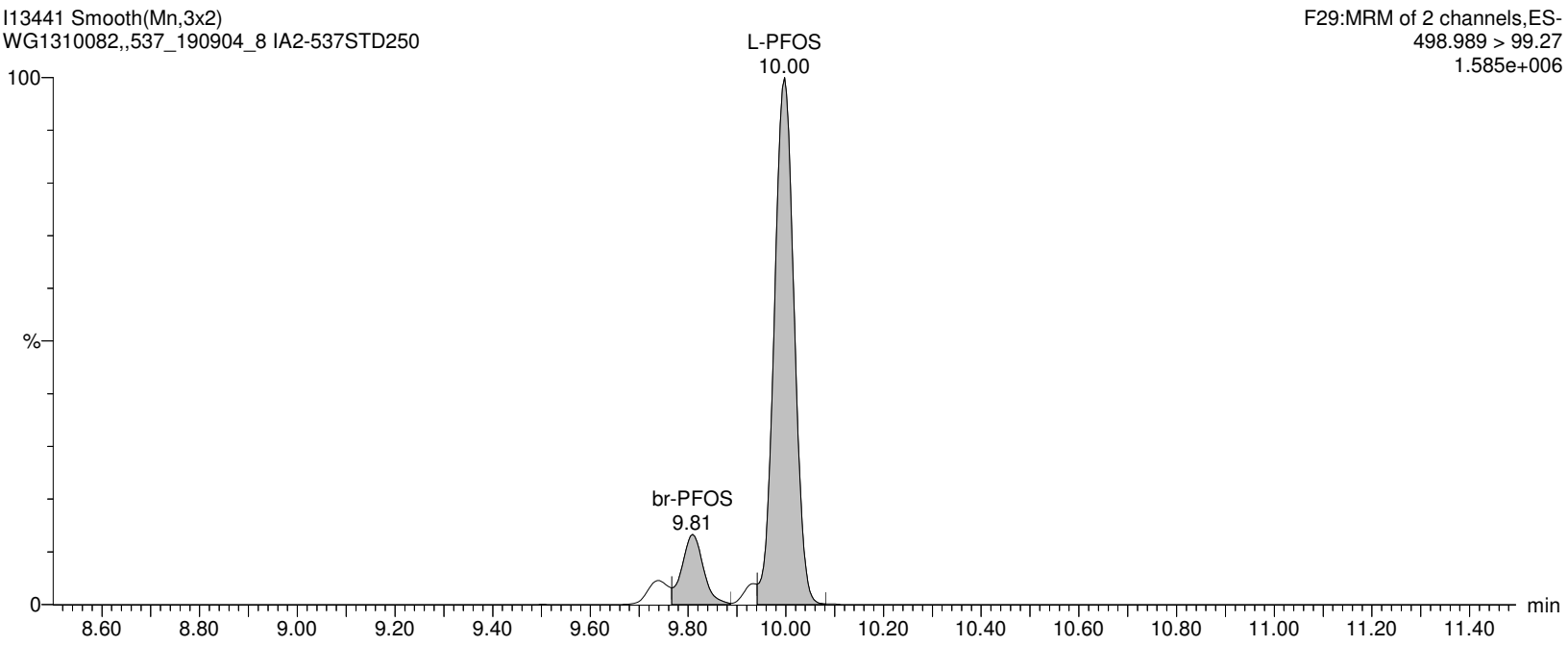

all concentration units in (ng/mL)

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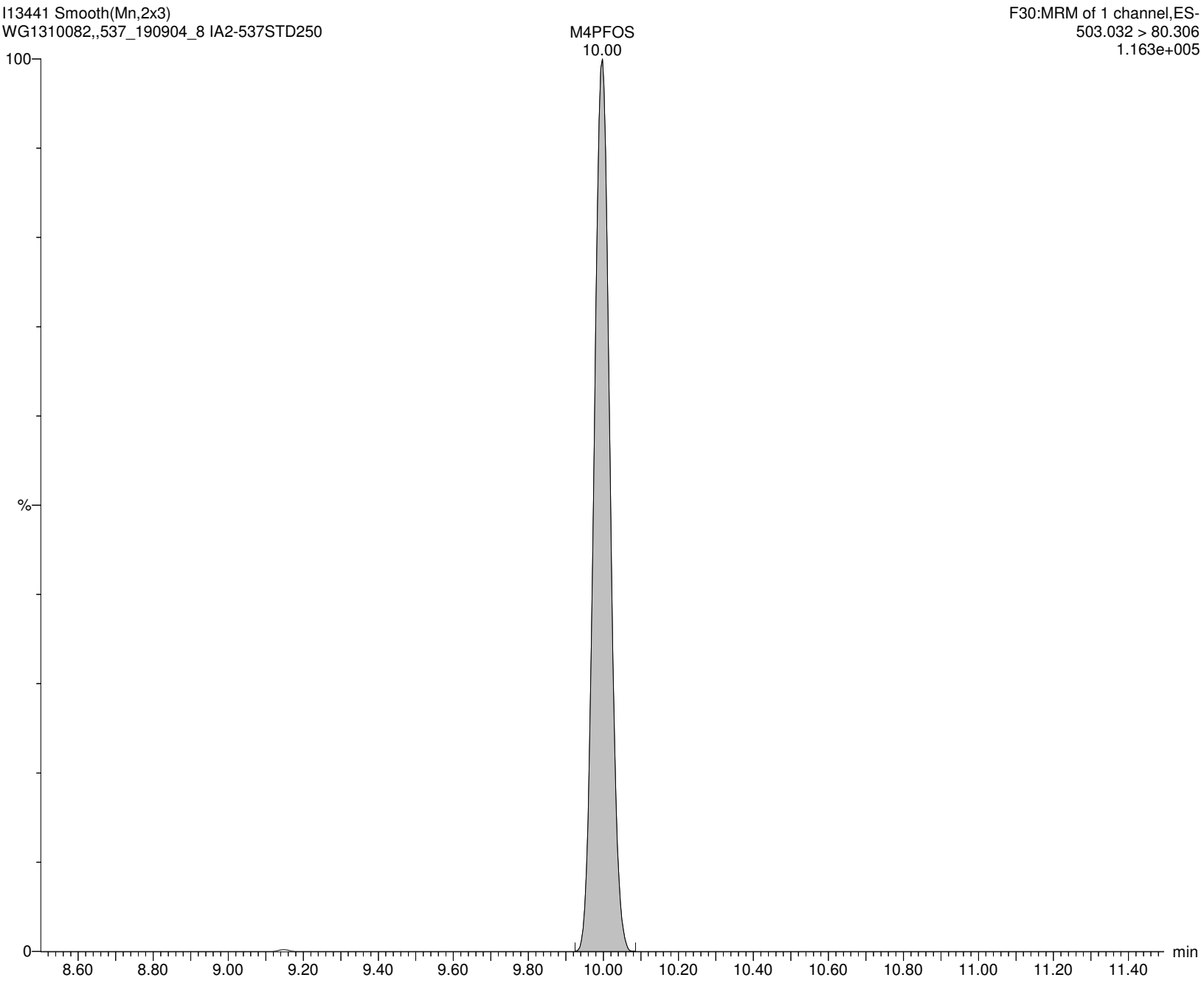

all concentration units in (ng/mL)

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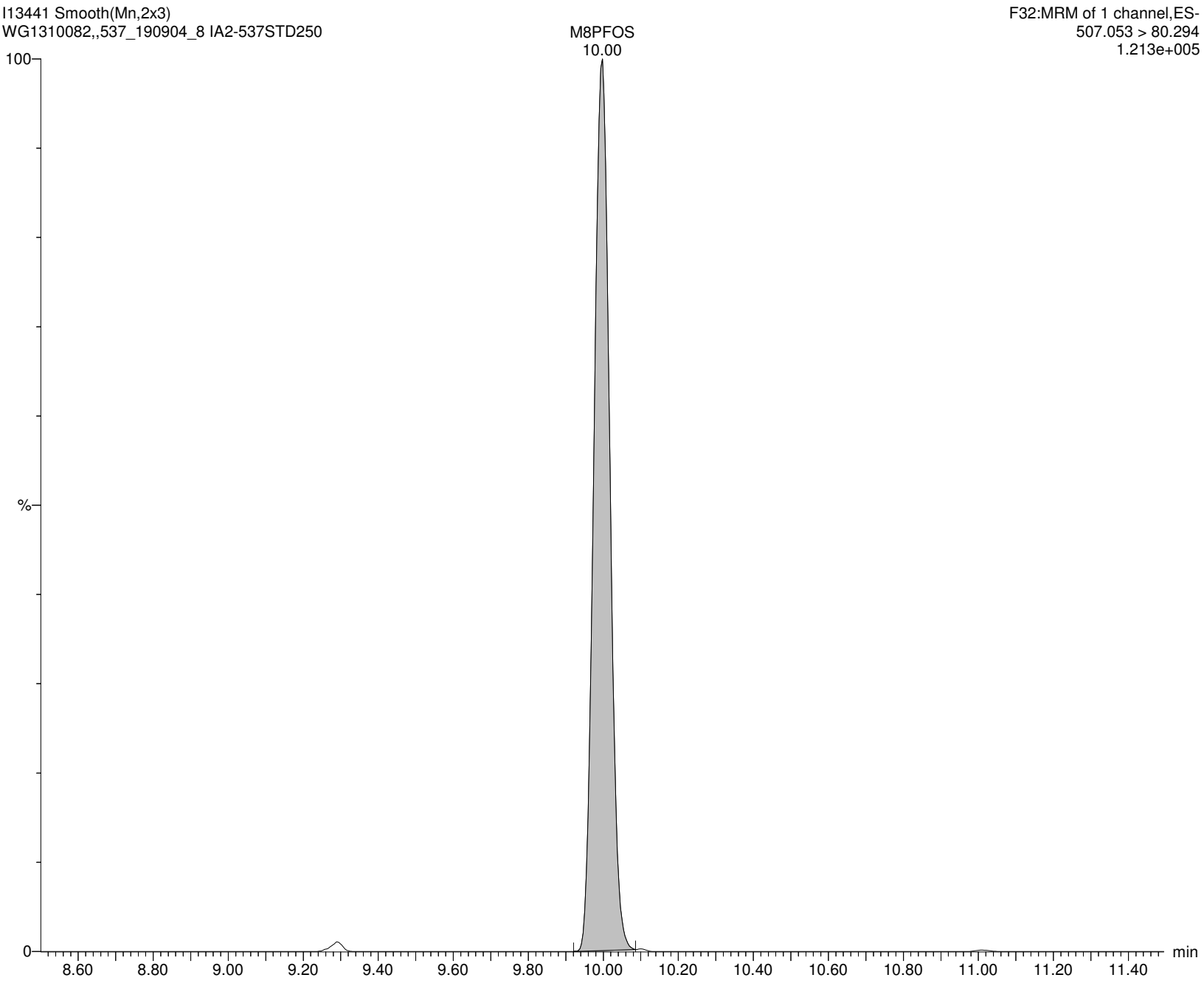

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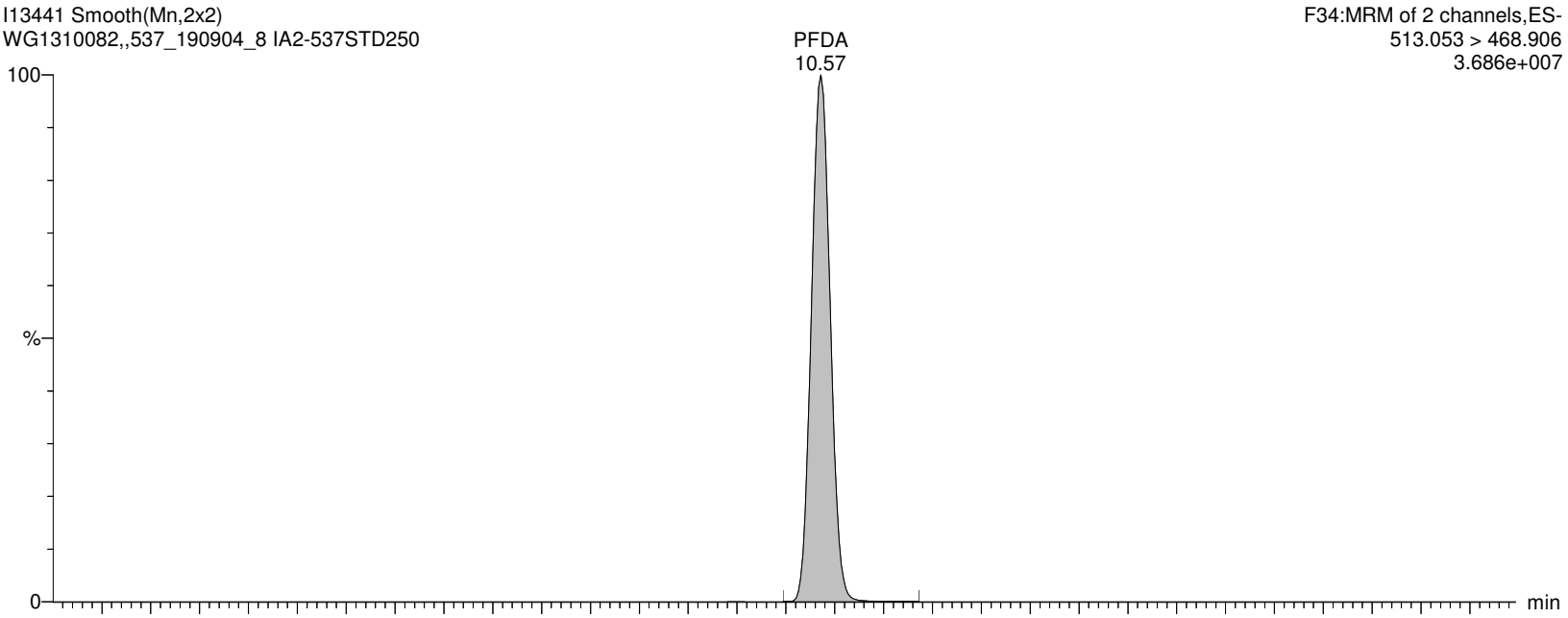

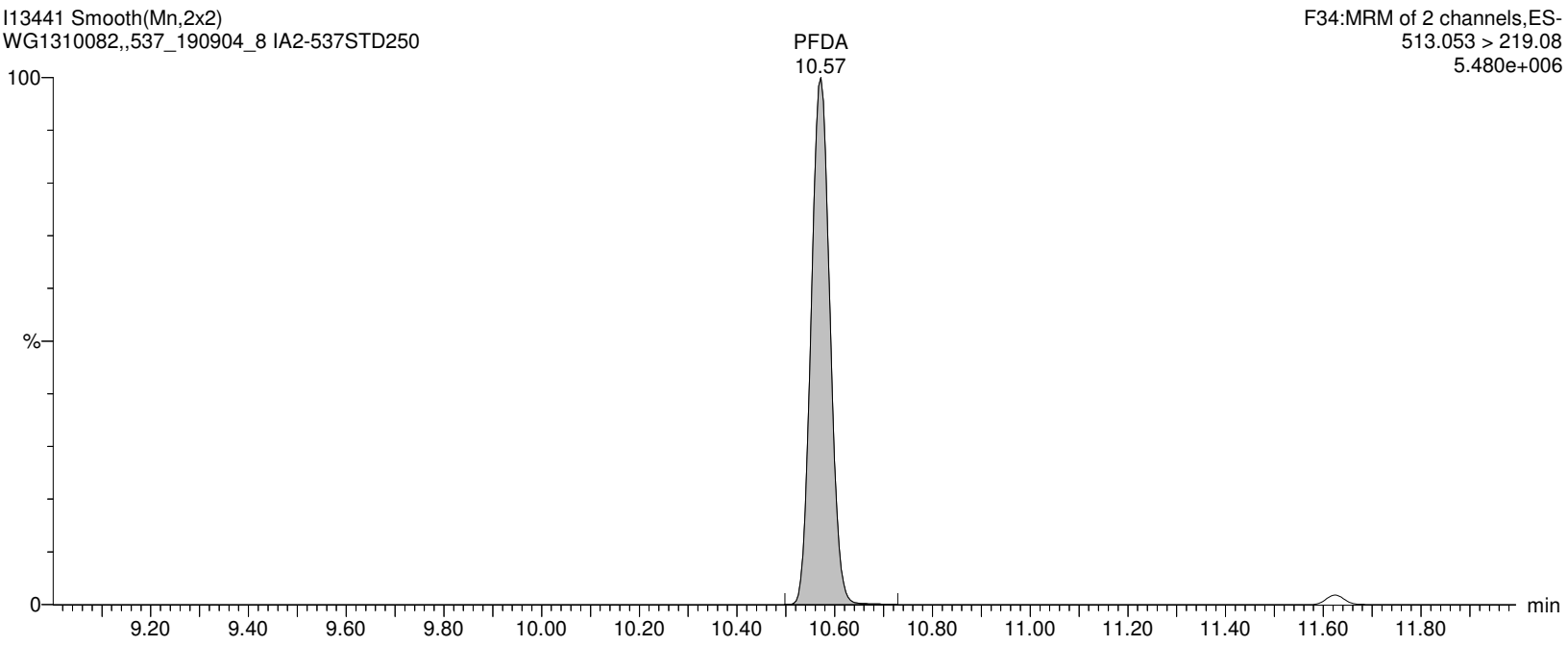

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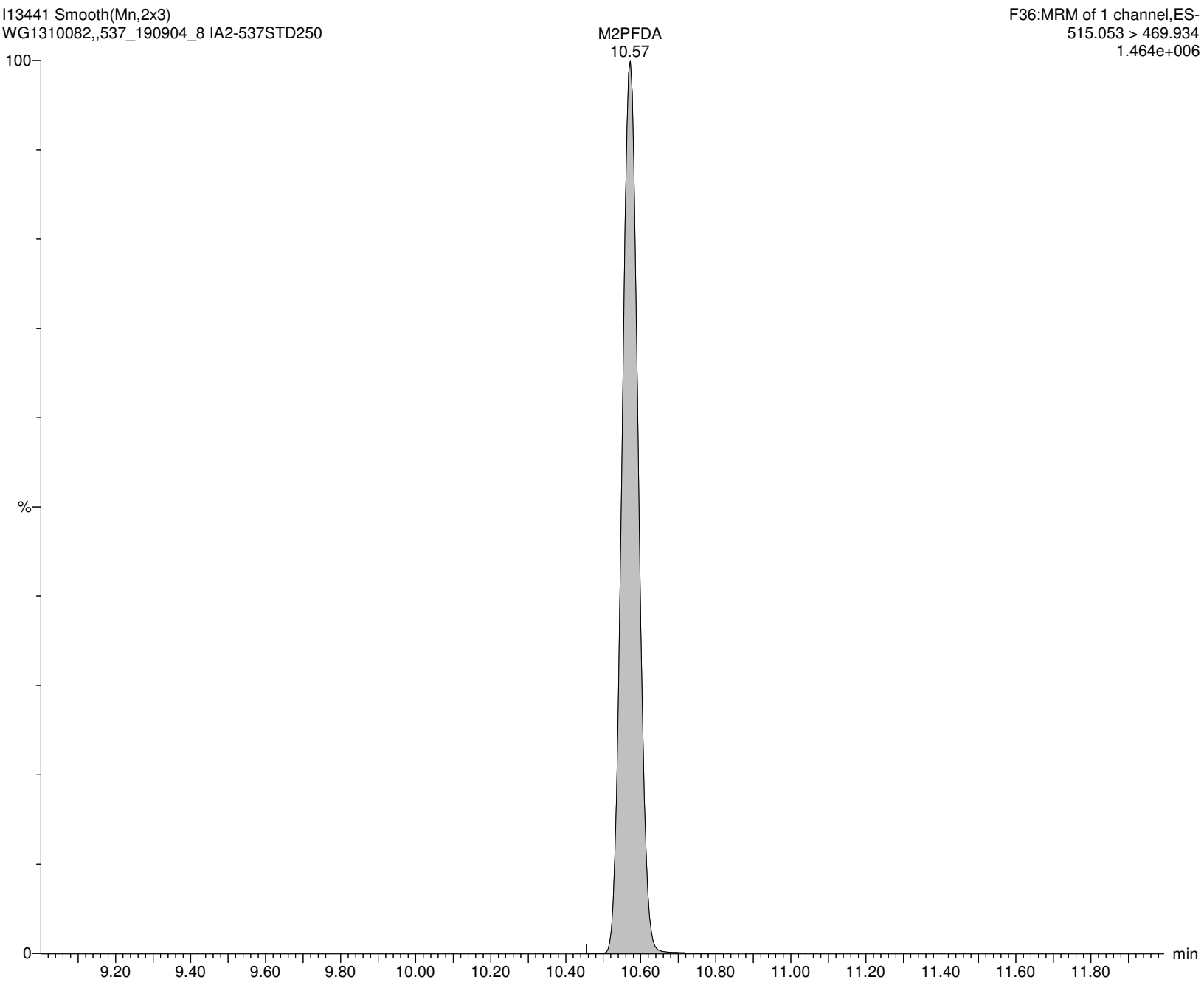

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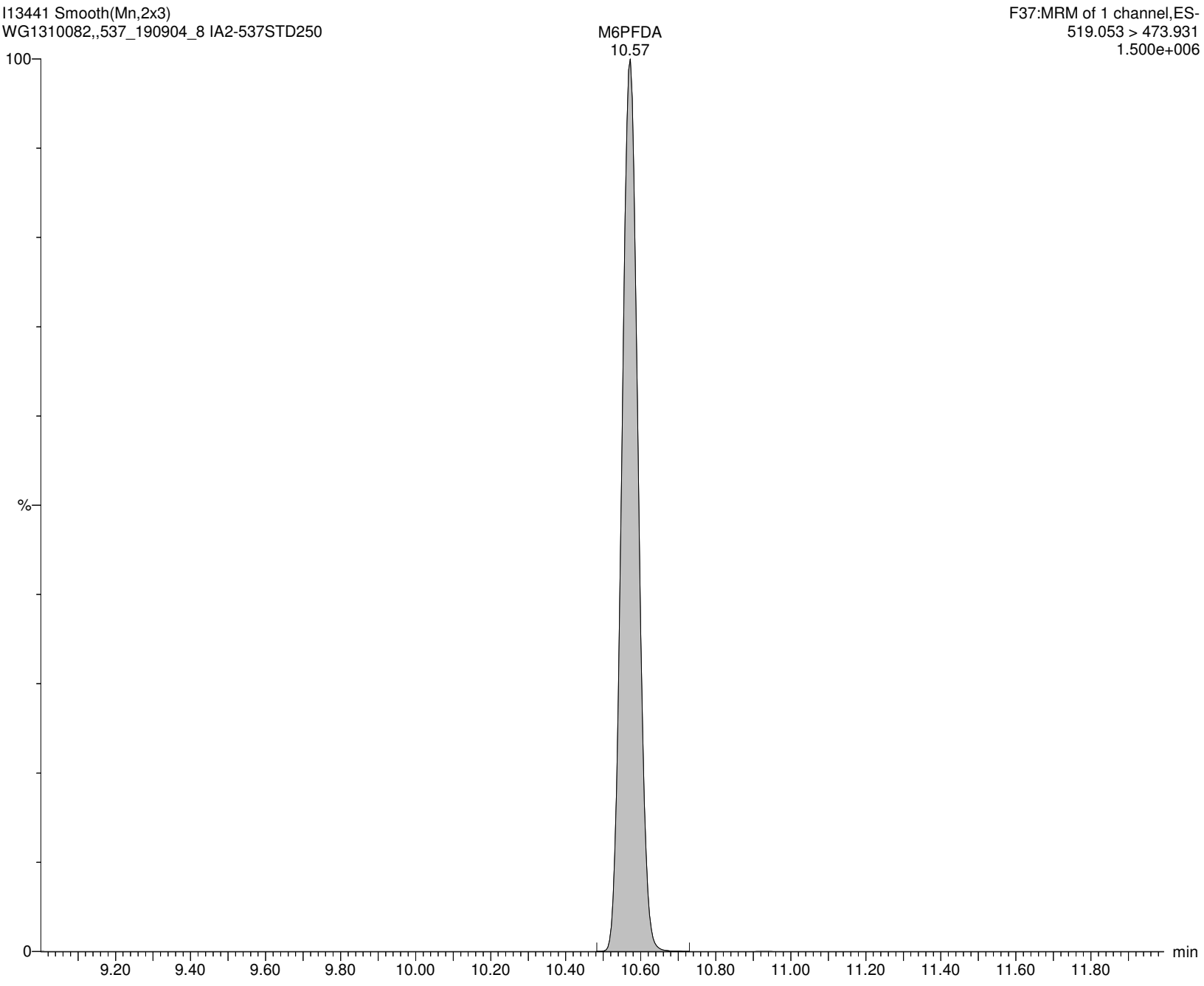

all concentration units in (ng/mL)

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User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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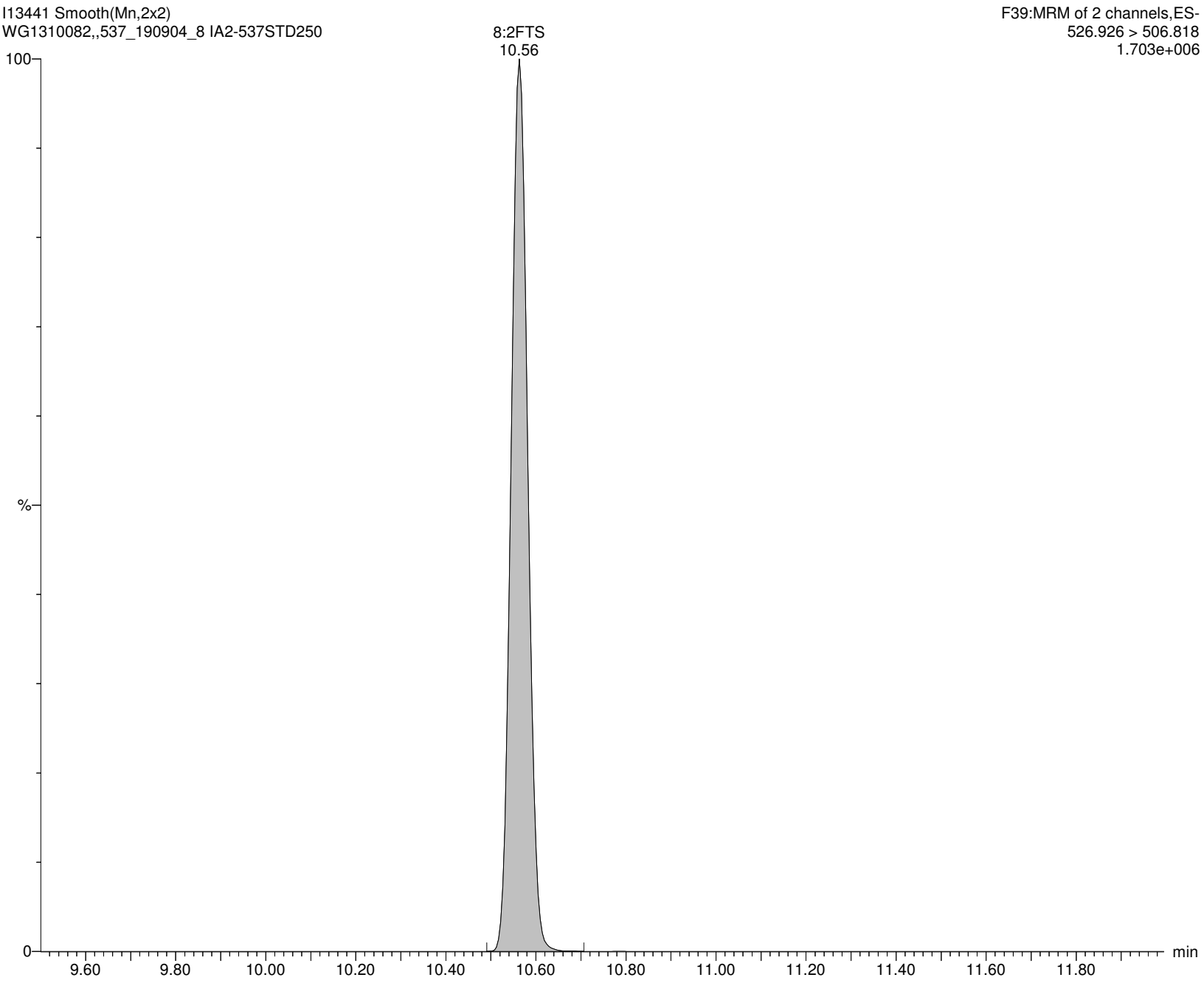

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:03 Eastern Standard Time

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ID: IA2-537STD250
Date: 18-Nov-2019
Time: 12:33:16
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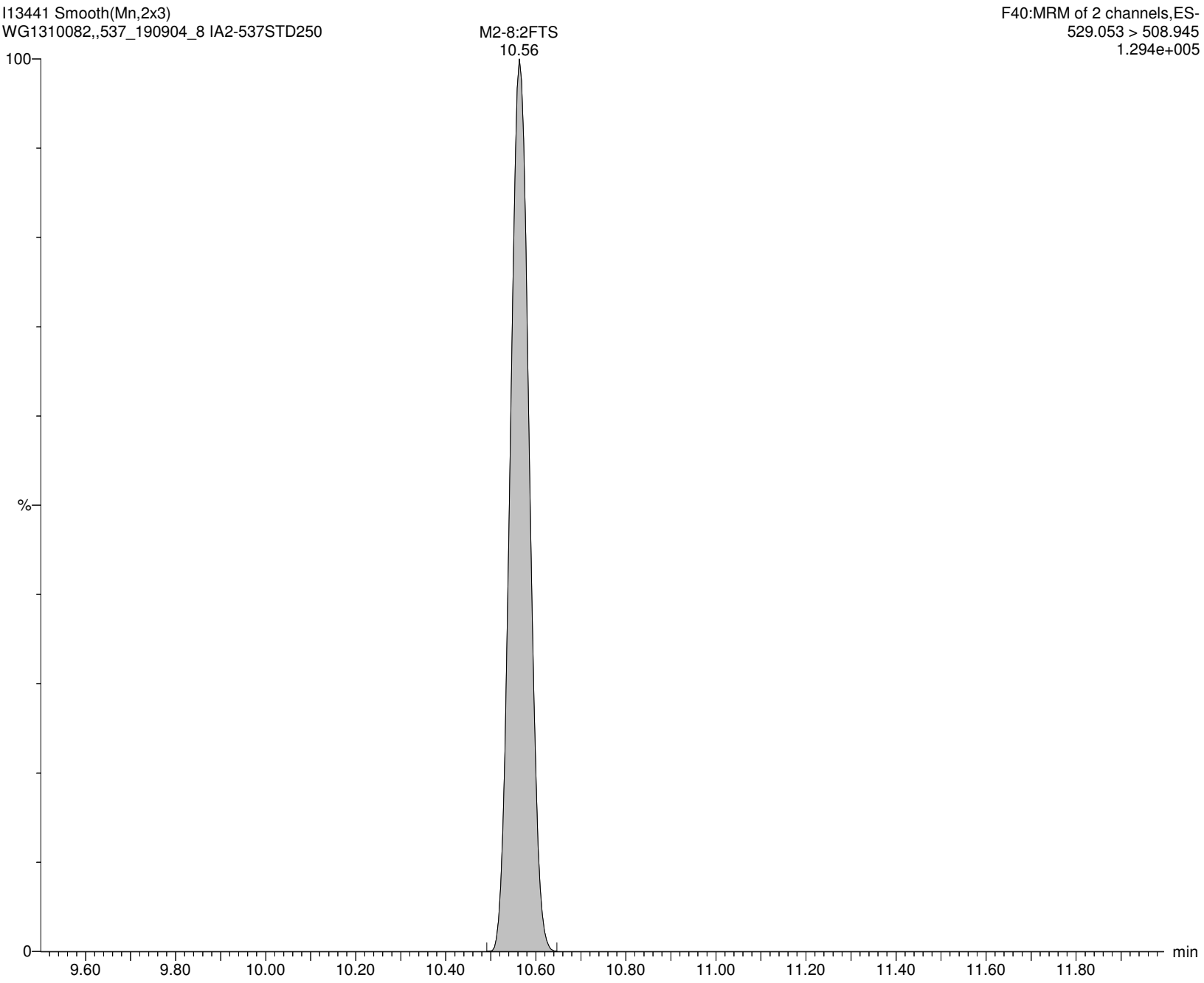

all concentration units in (ng/mL)

Alpha Analytical Inc.
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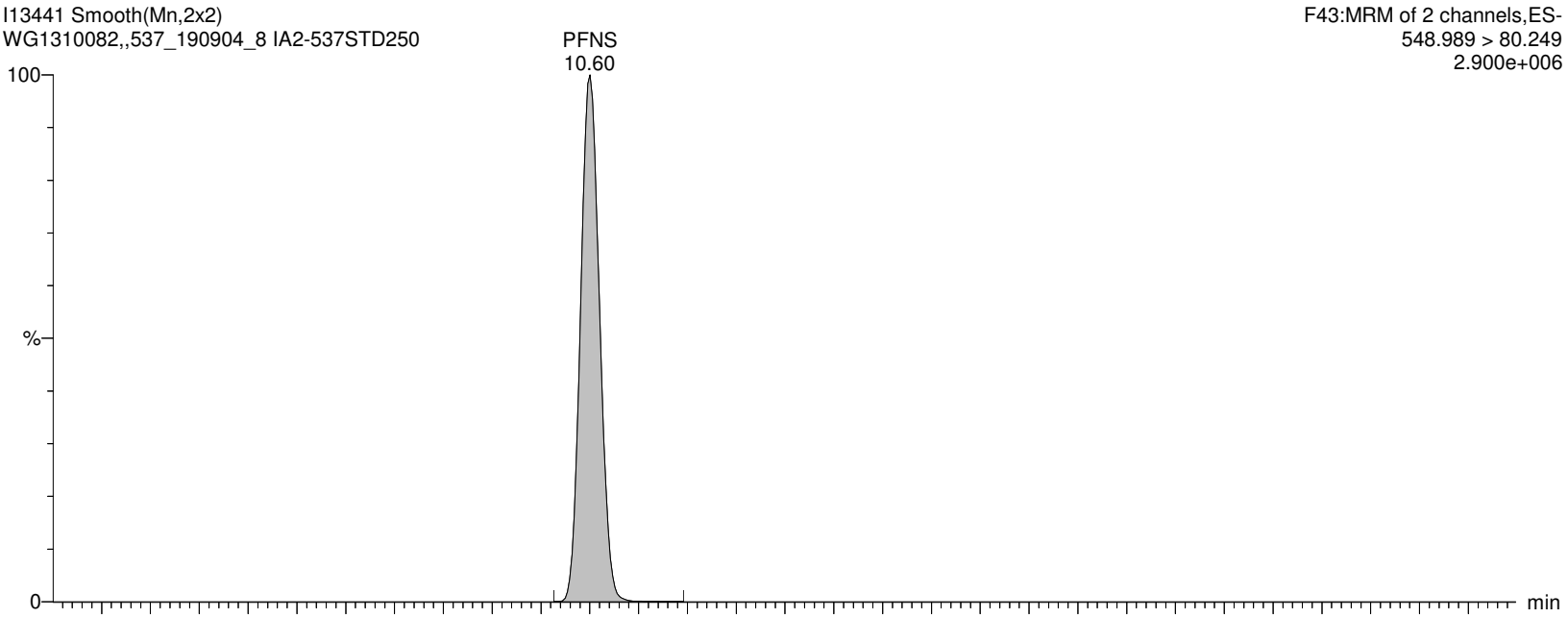

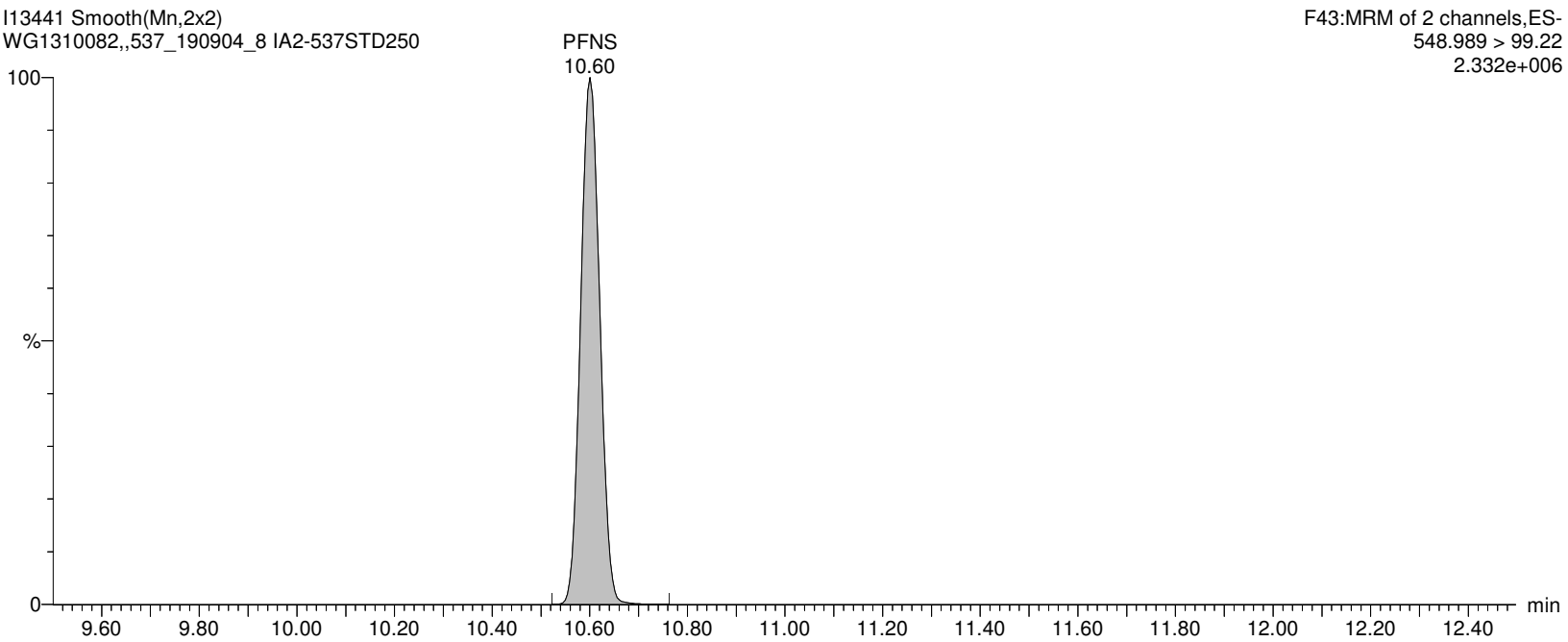

all concentration units in (ng/mL)

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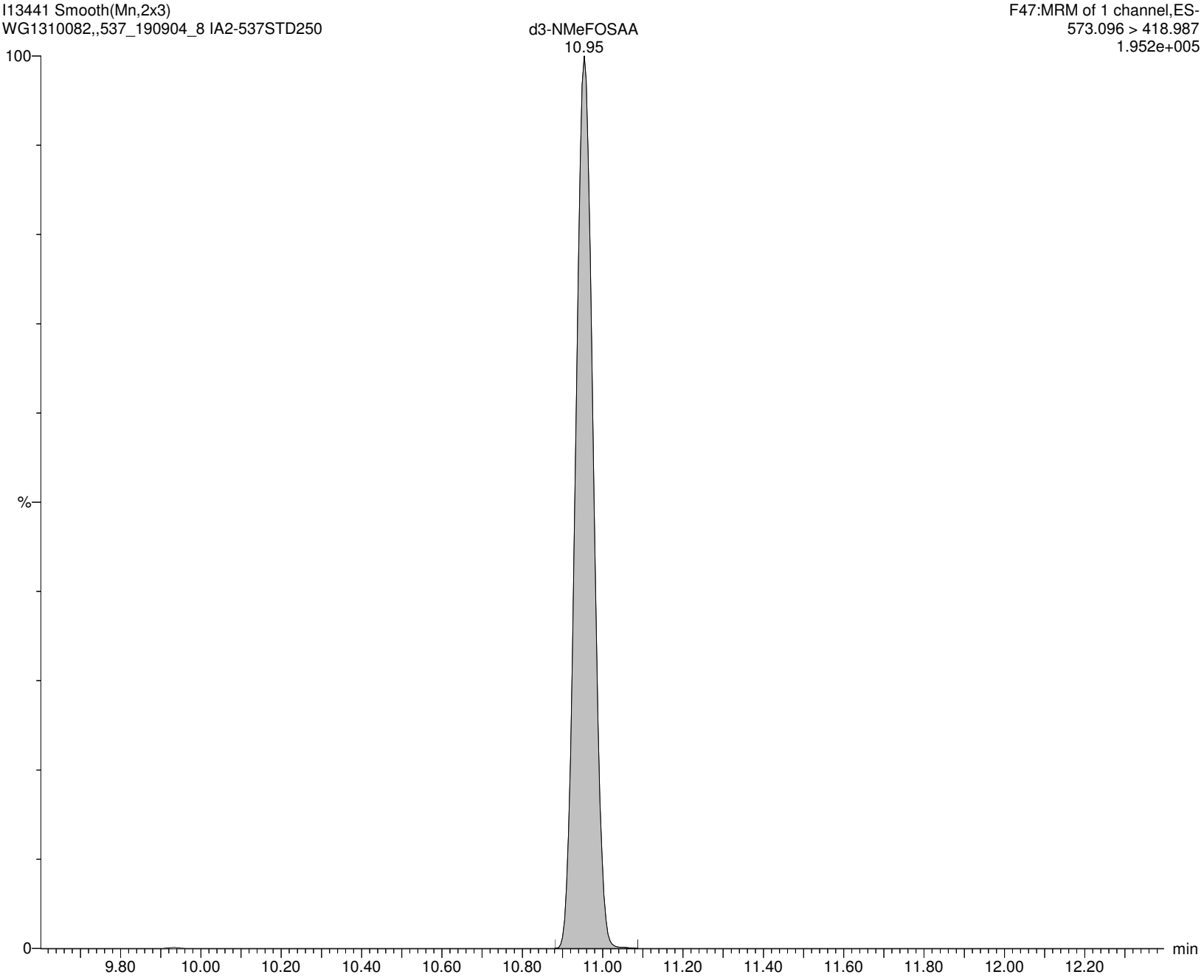

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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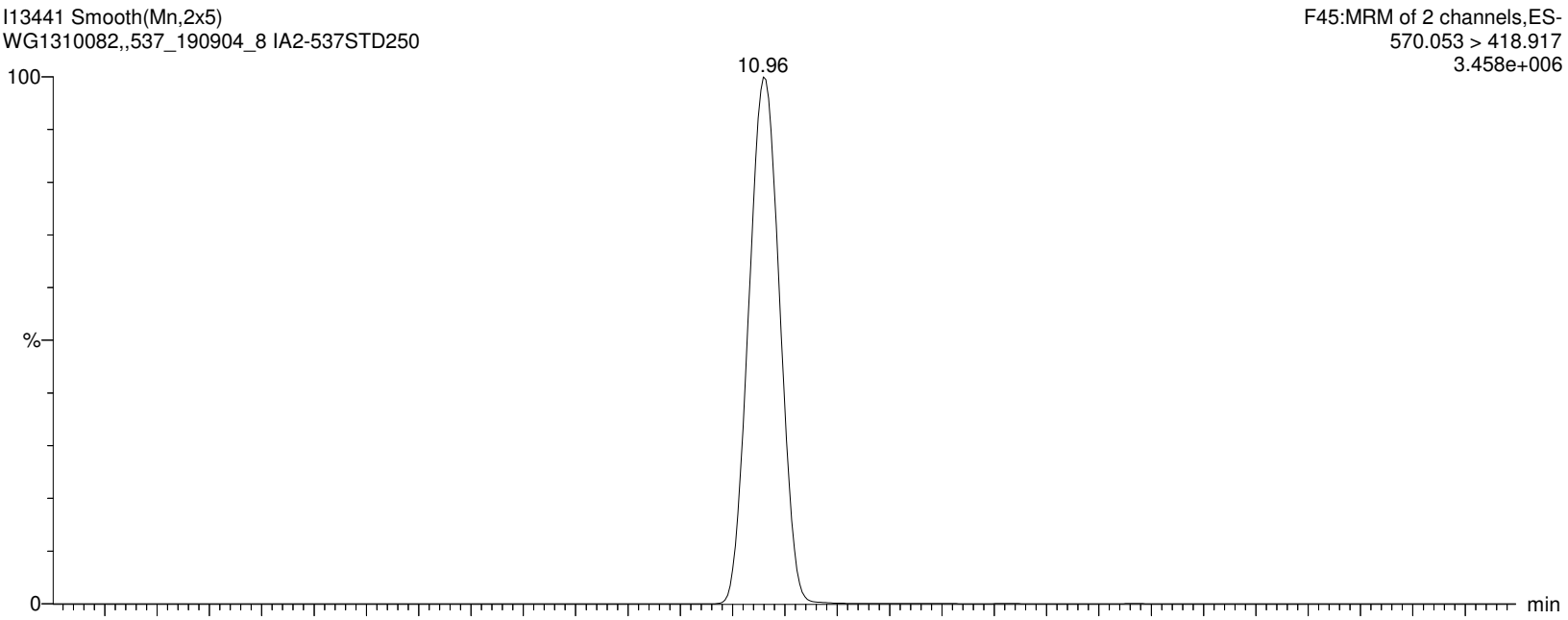

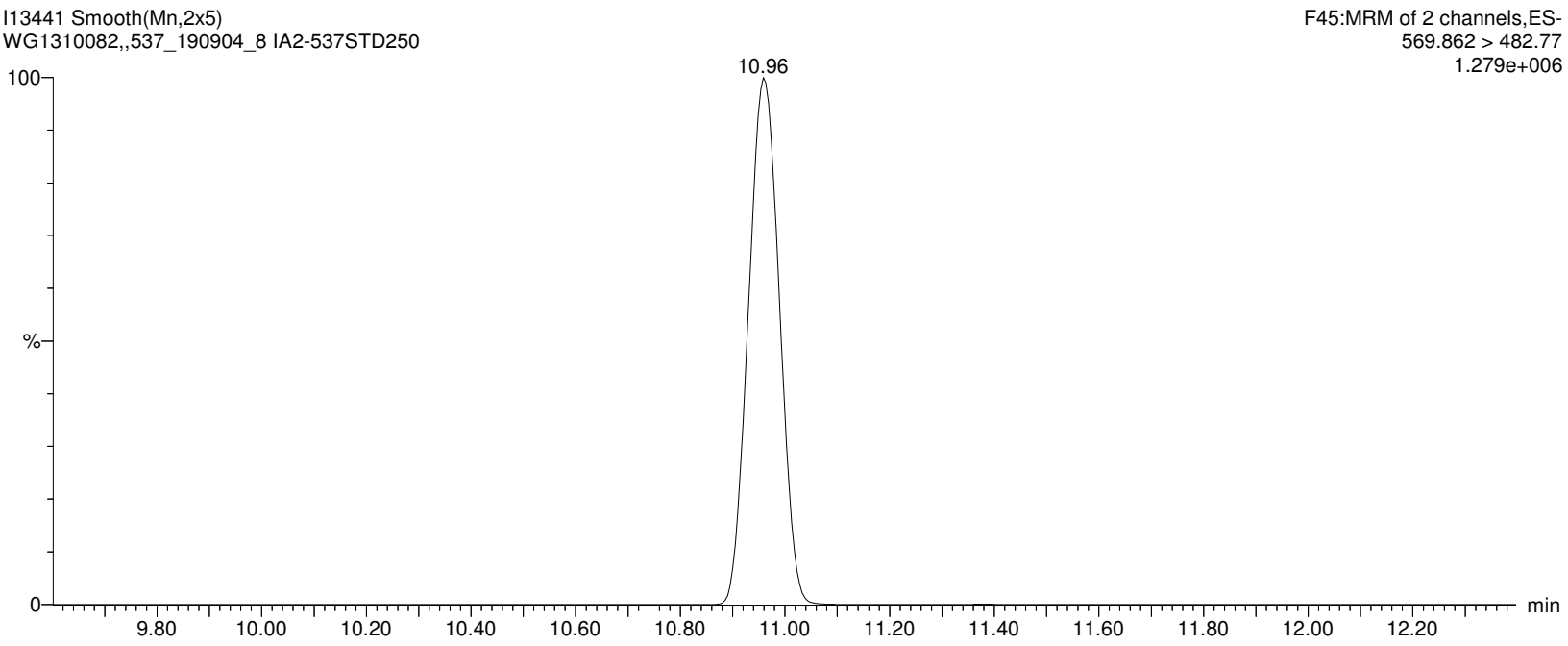

all concentration units in (ng/mL)

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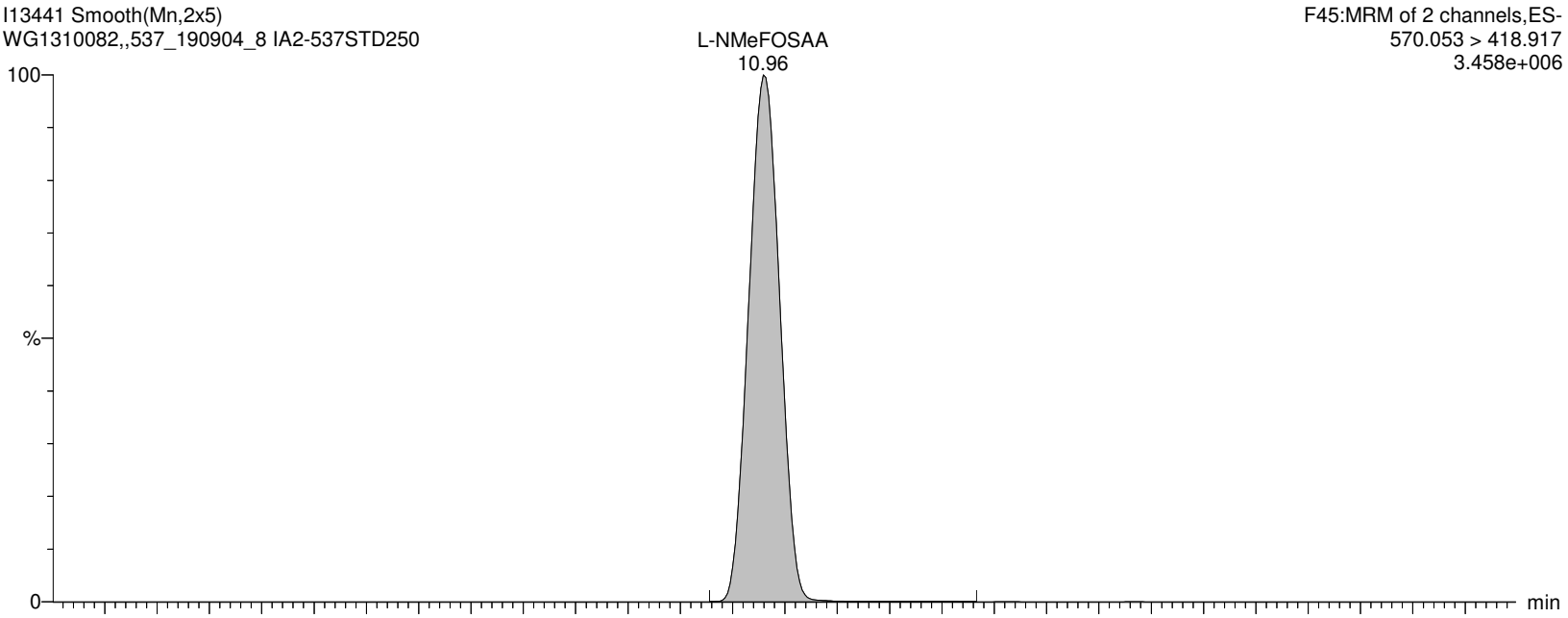
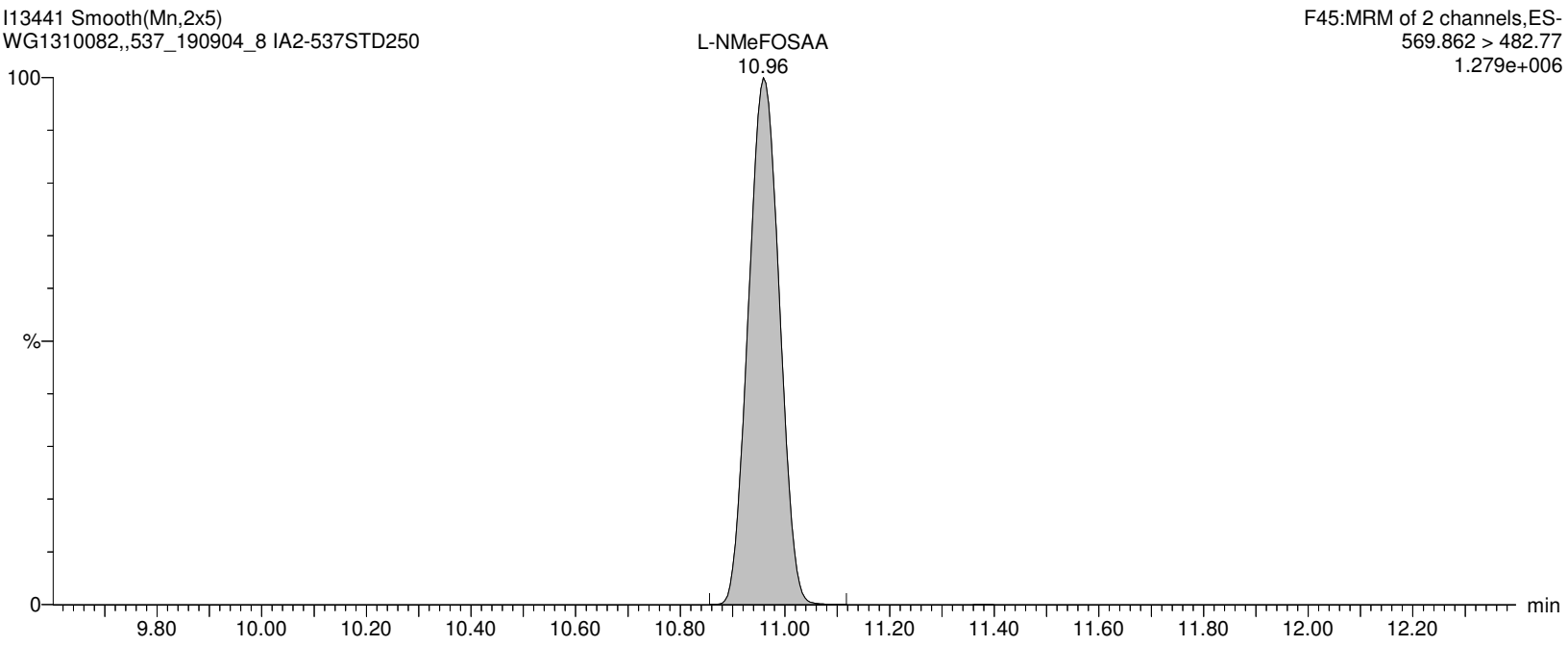
L-NMeFOSAA





all concentration units in (ng/mL)

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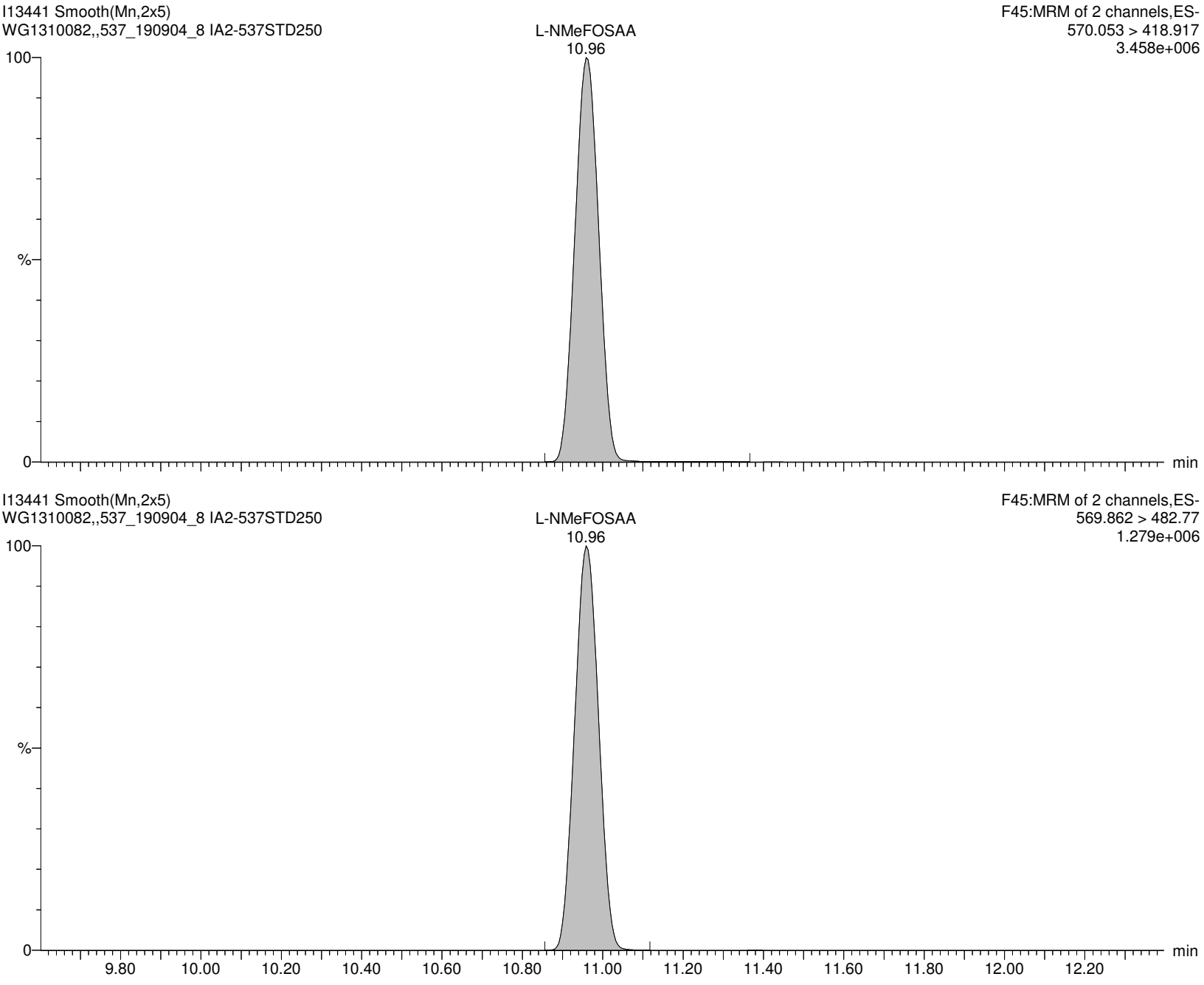

all concentration units in (ng/mL)

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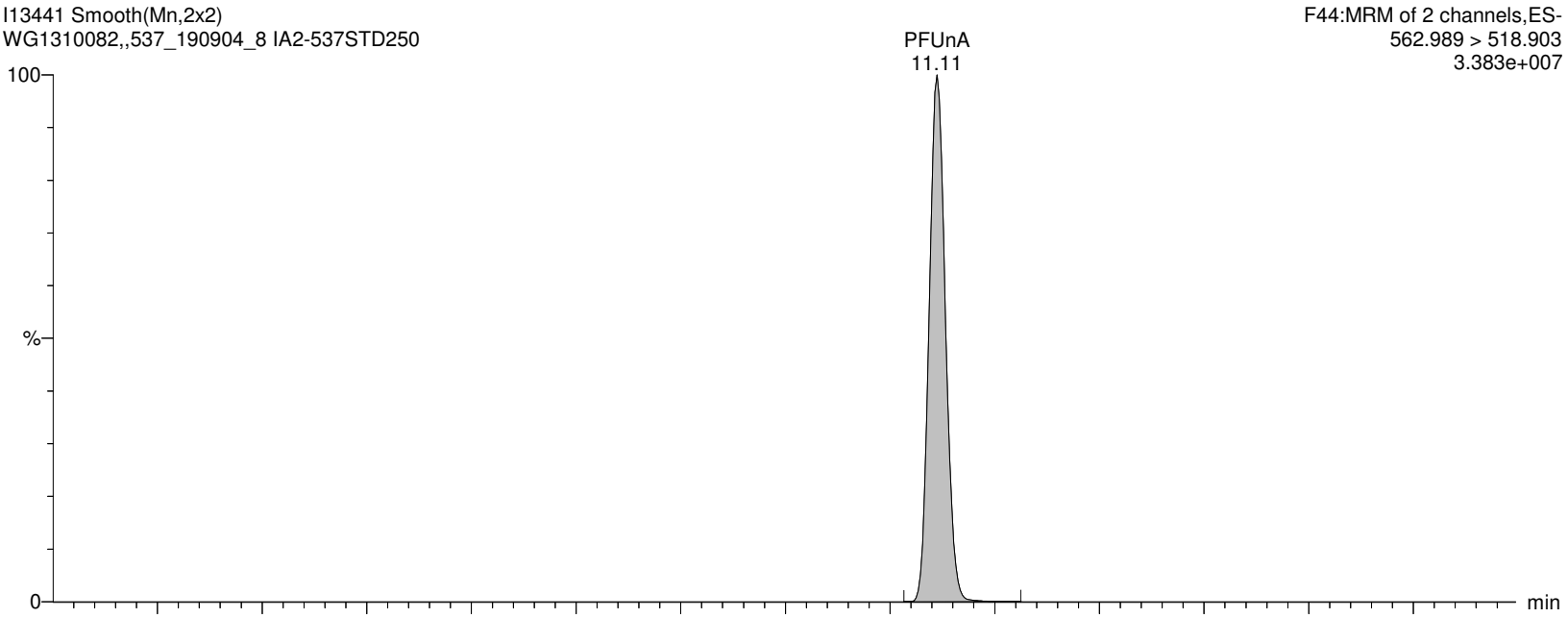

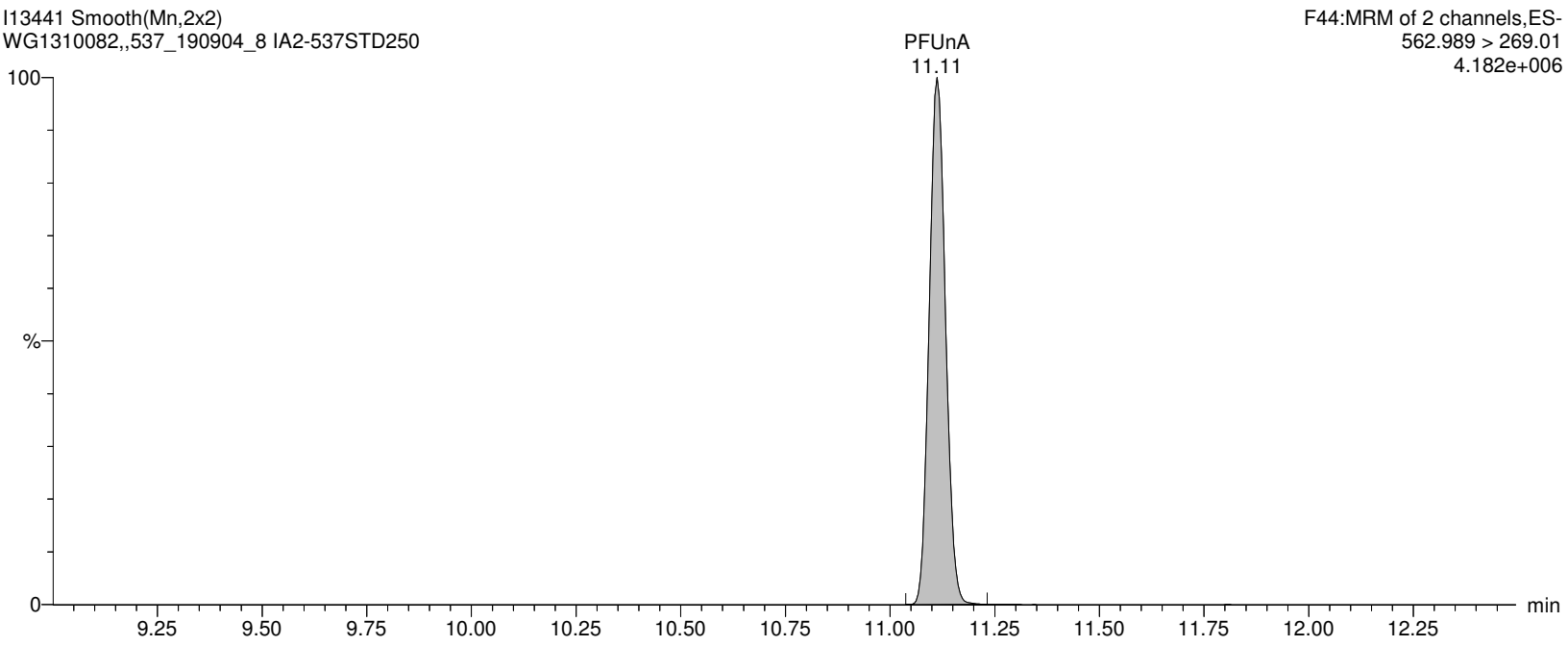

all concentration units in (ng/mL)

Alpha Analytical Inc.
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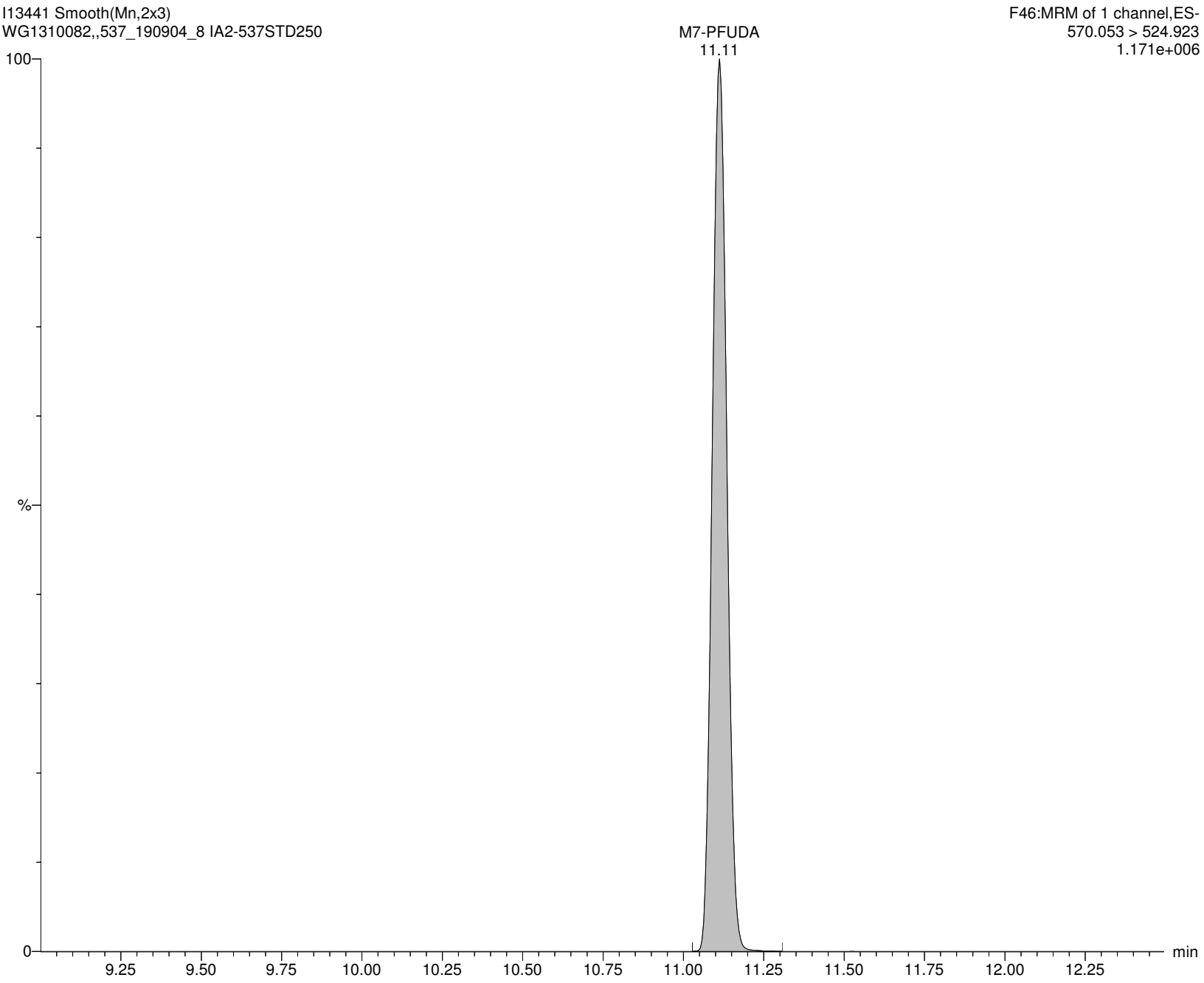
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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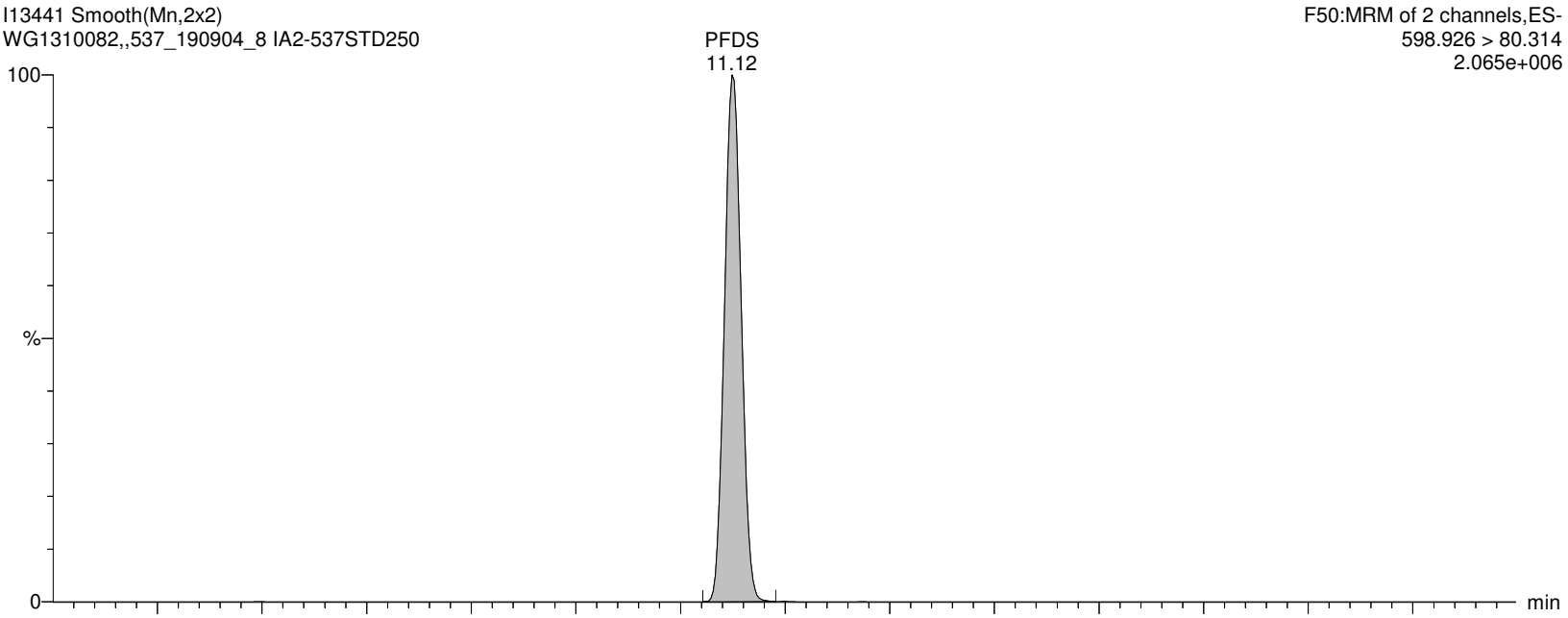

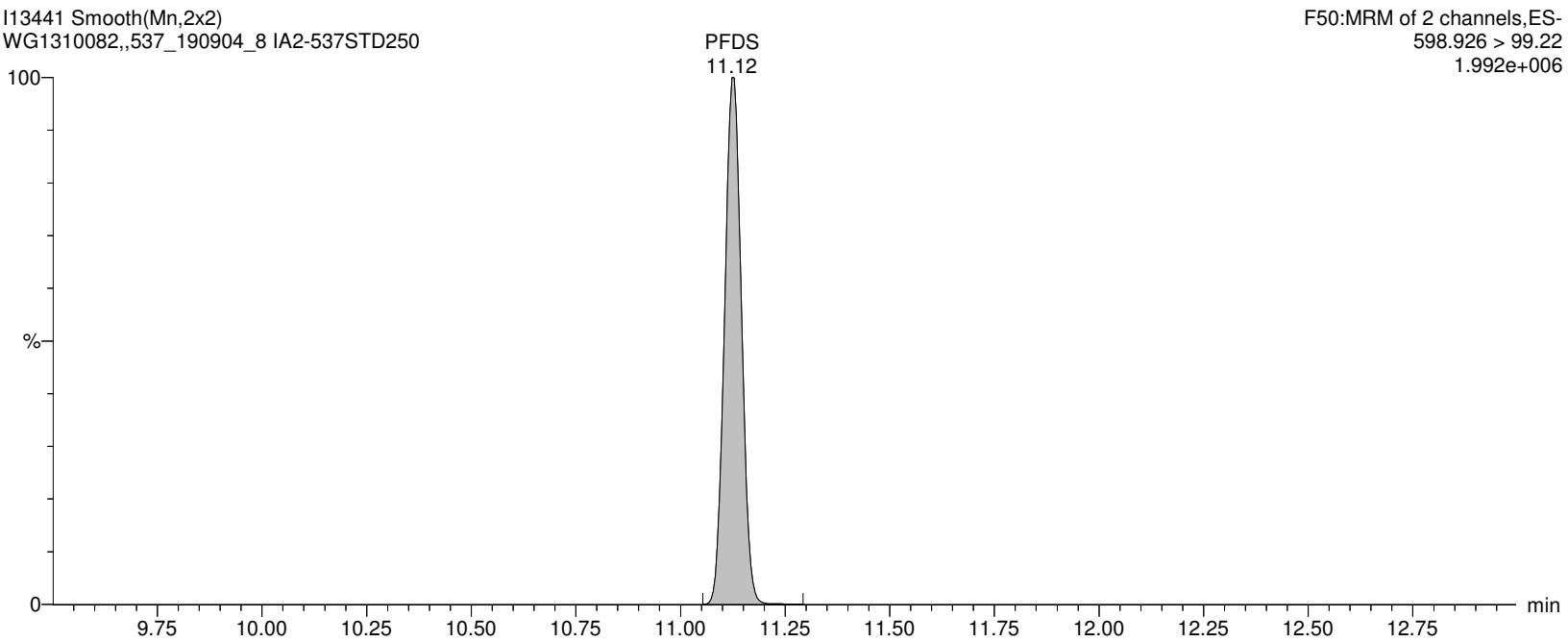

all concentration units in (ng/mL)

Alpha Analytical Inc.
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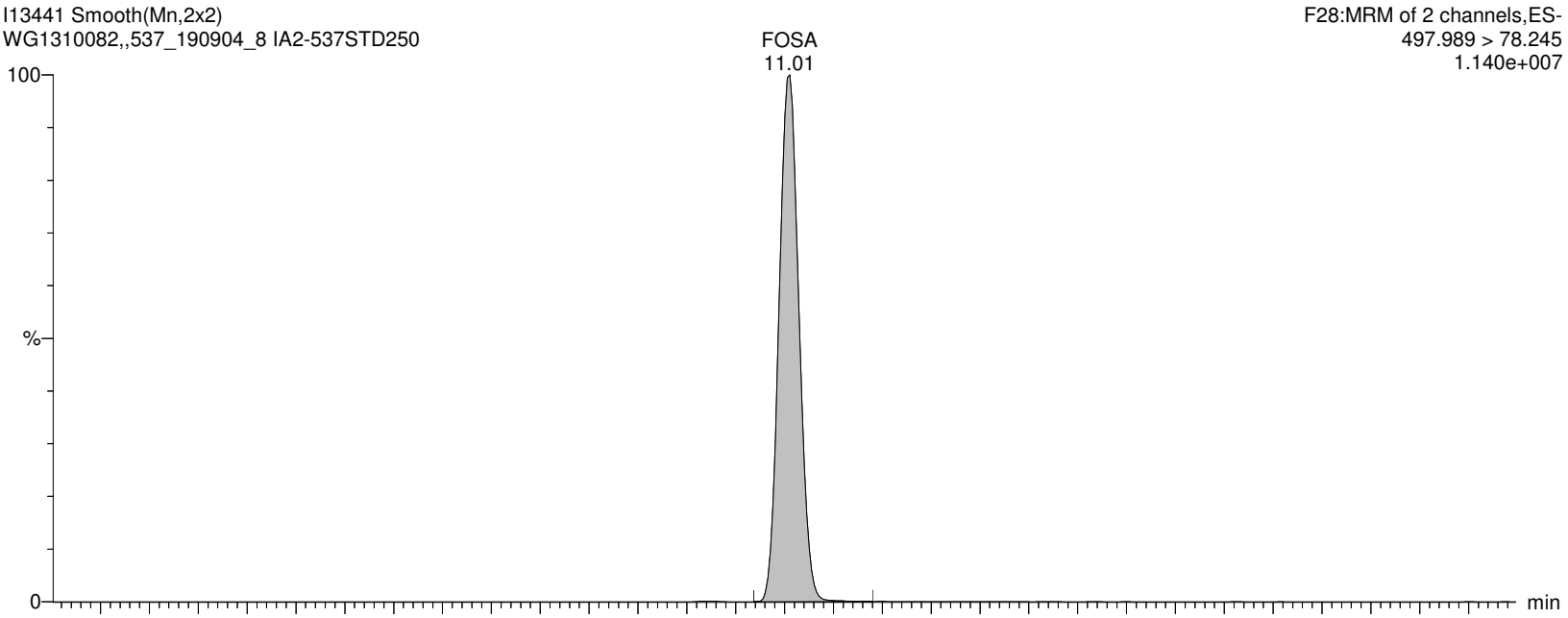

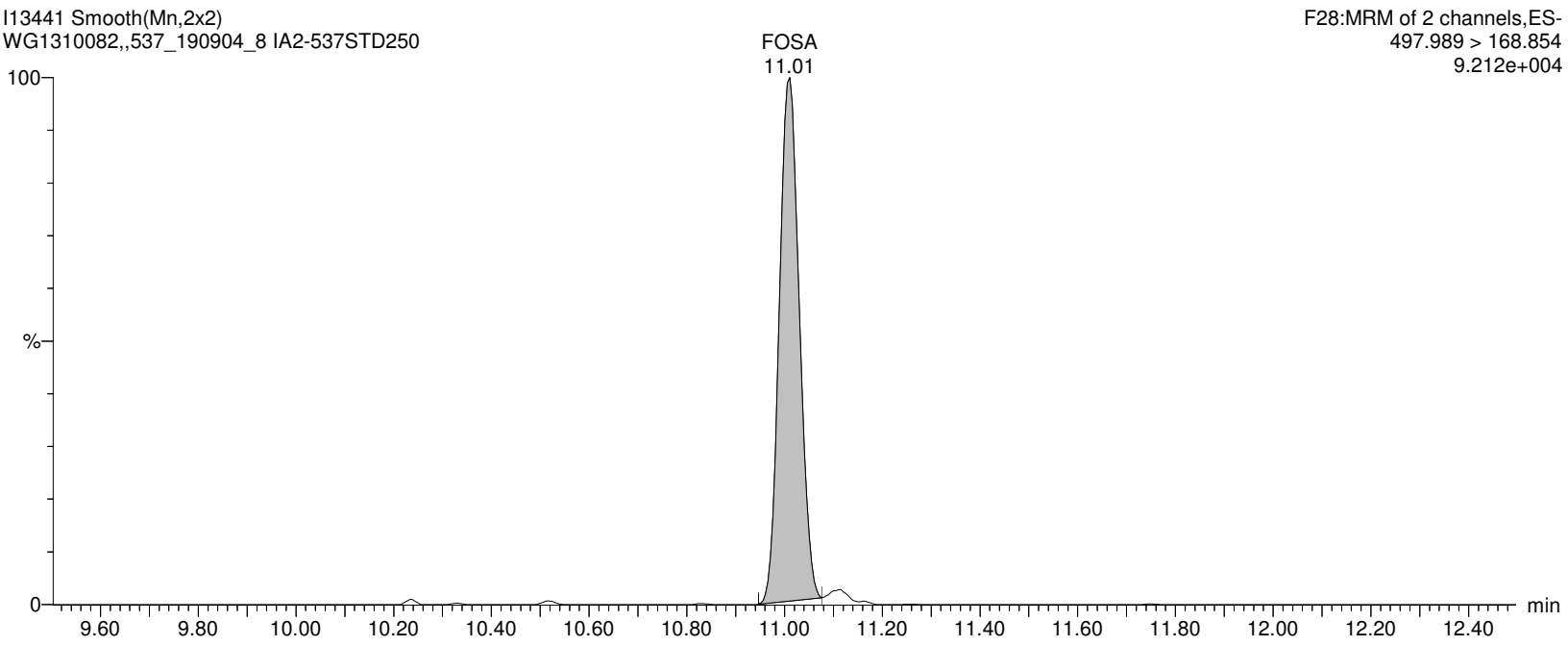

all concentration units in (ng/mL)

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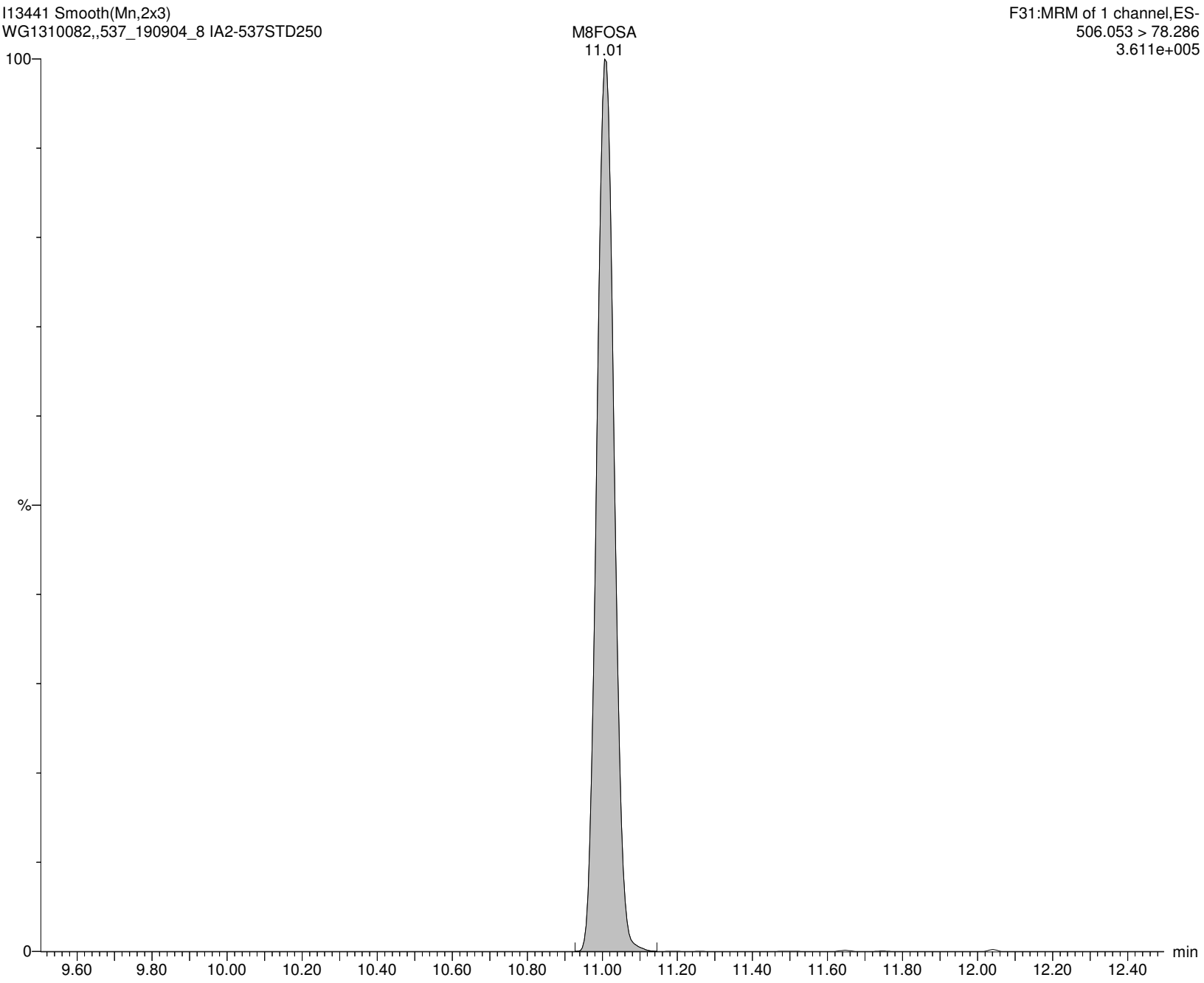

all concentration units in (ng/mL)

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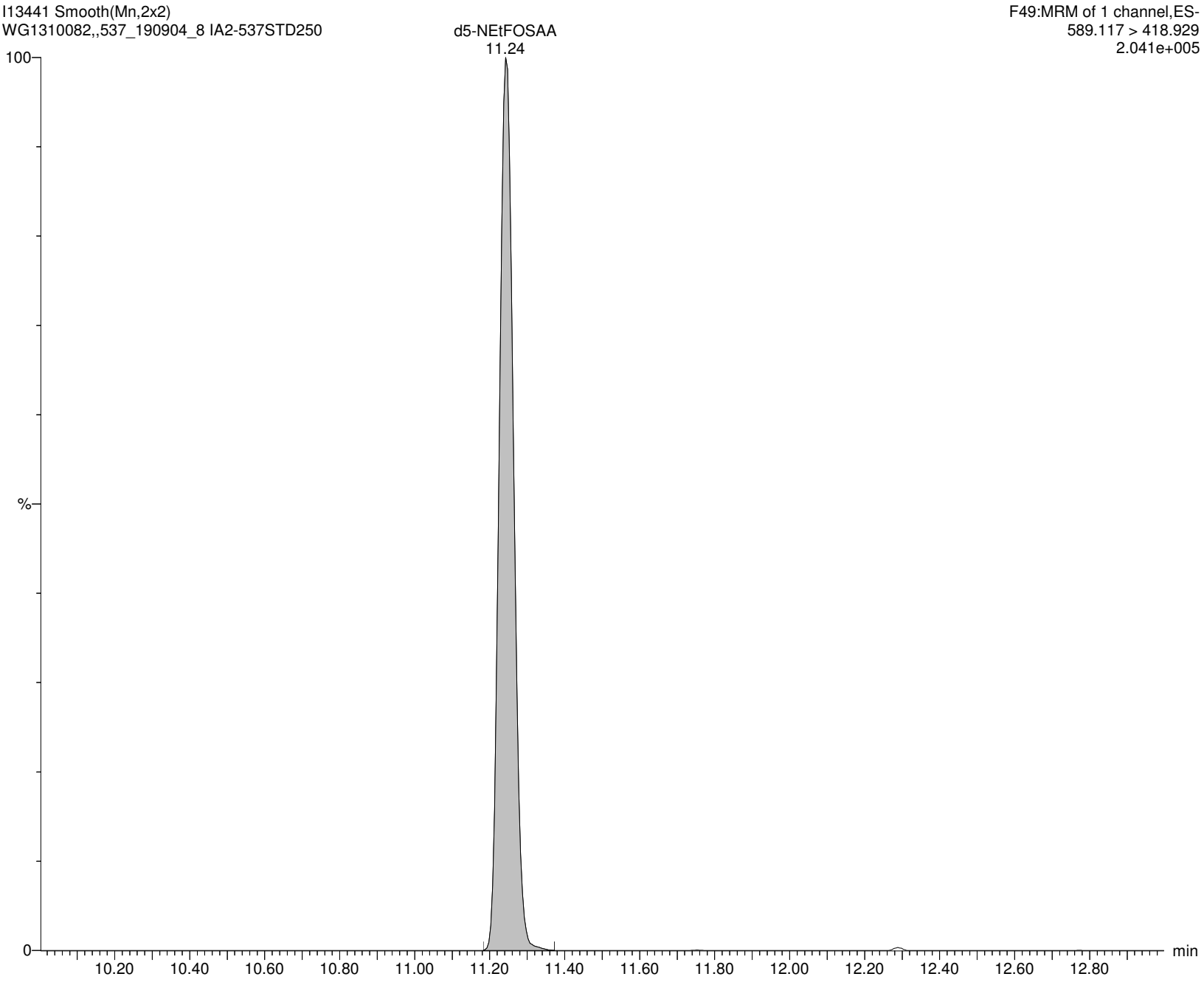

all concentration units in (ng/mL)

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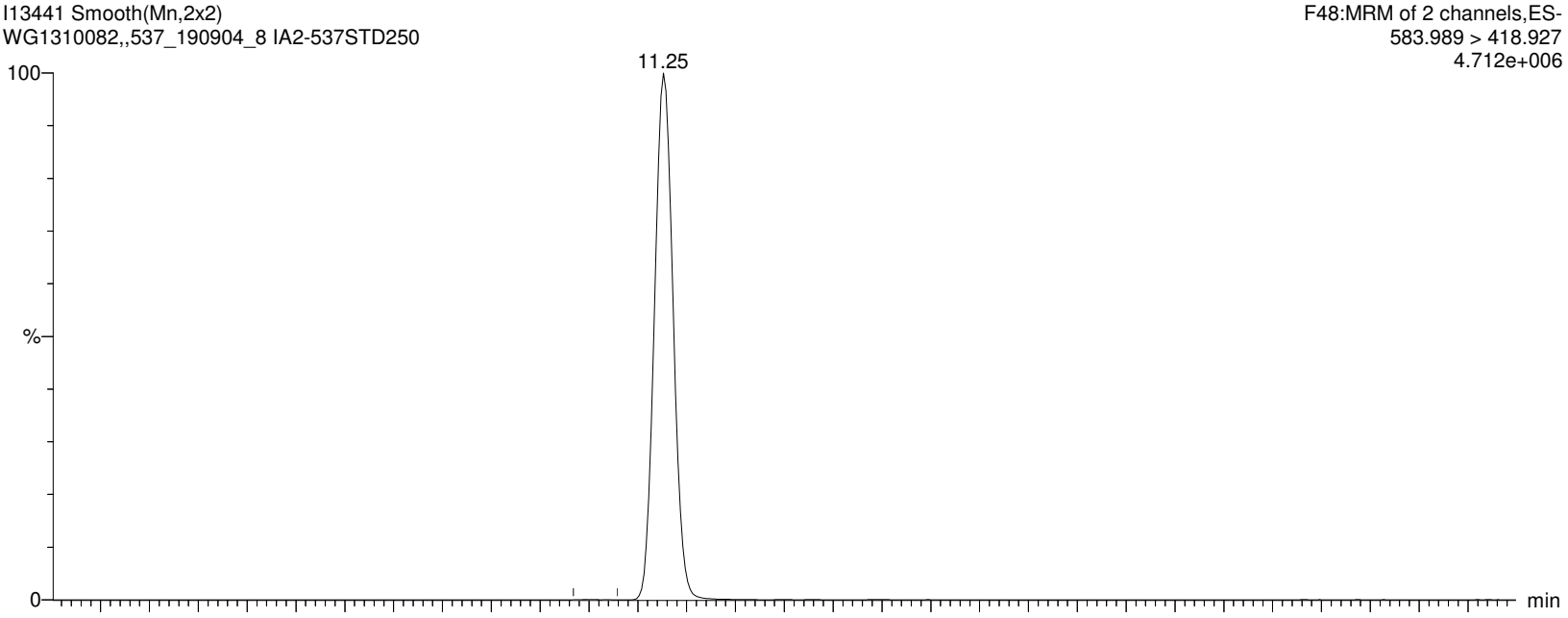

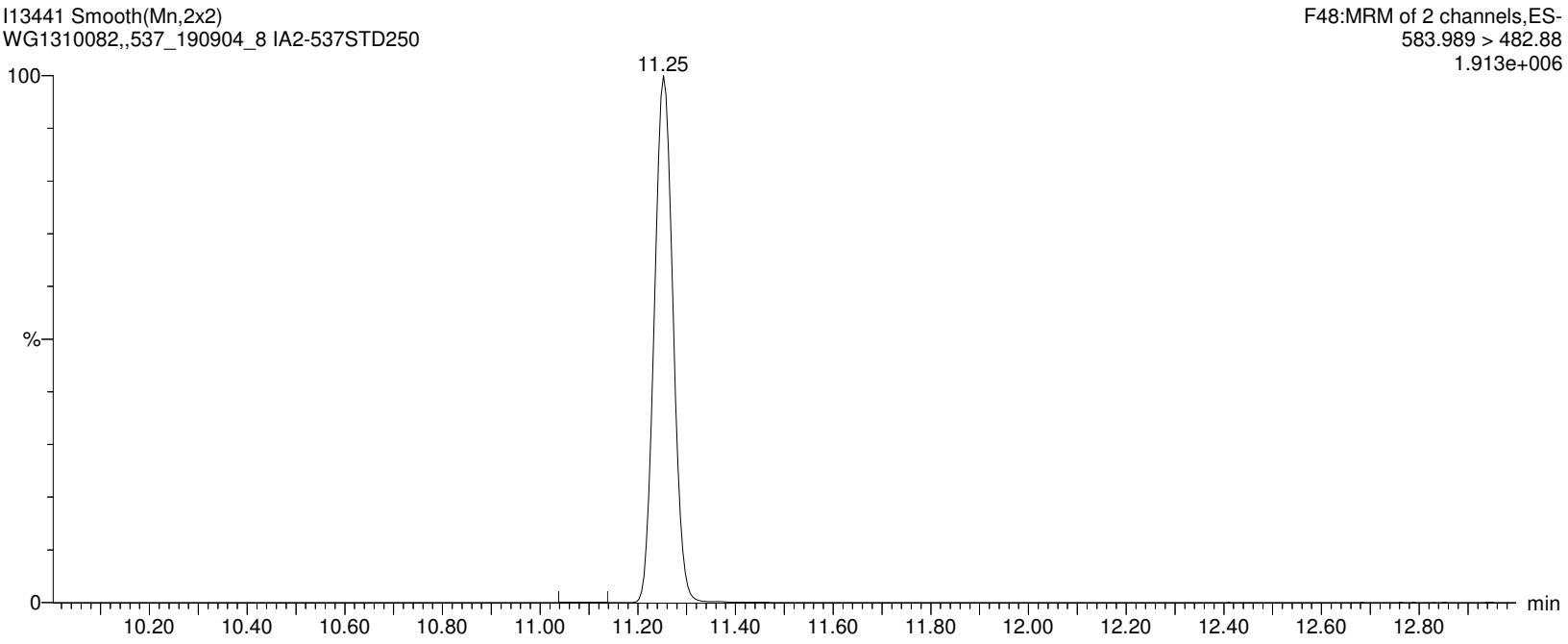

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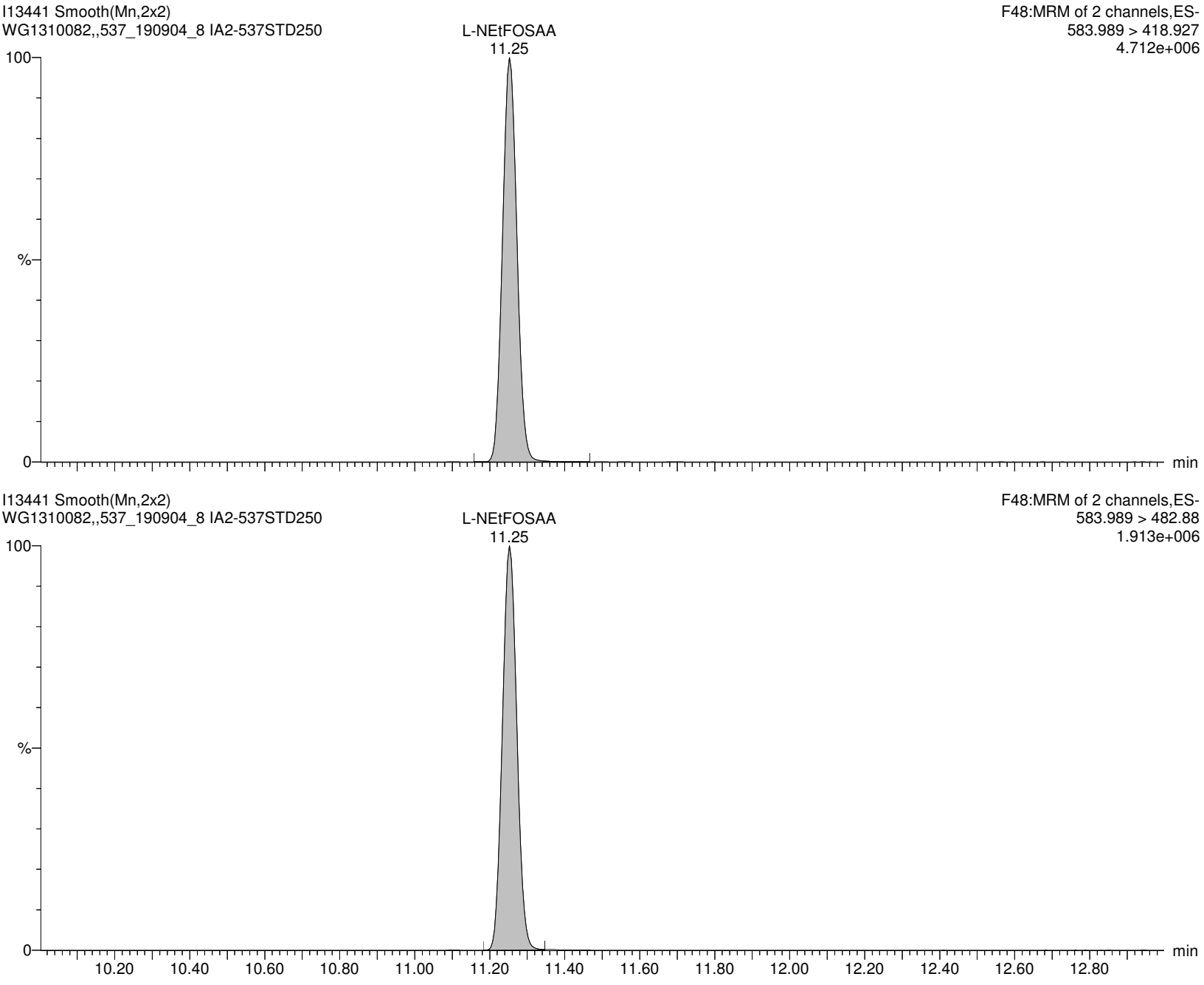
L-NEtFOSAA



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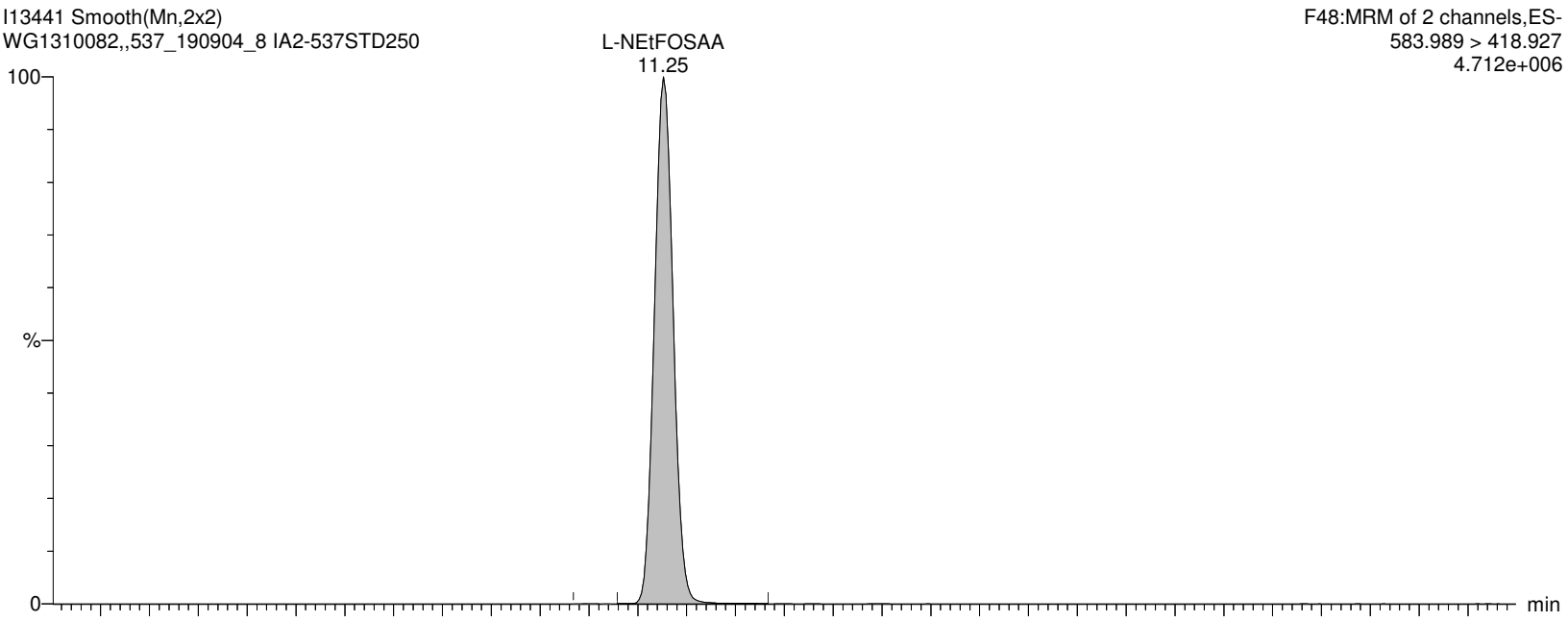

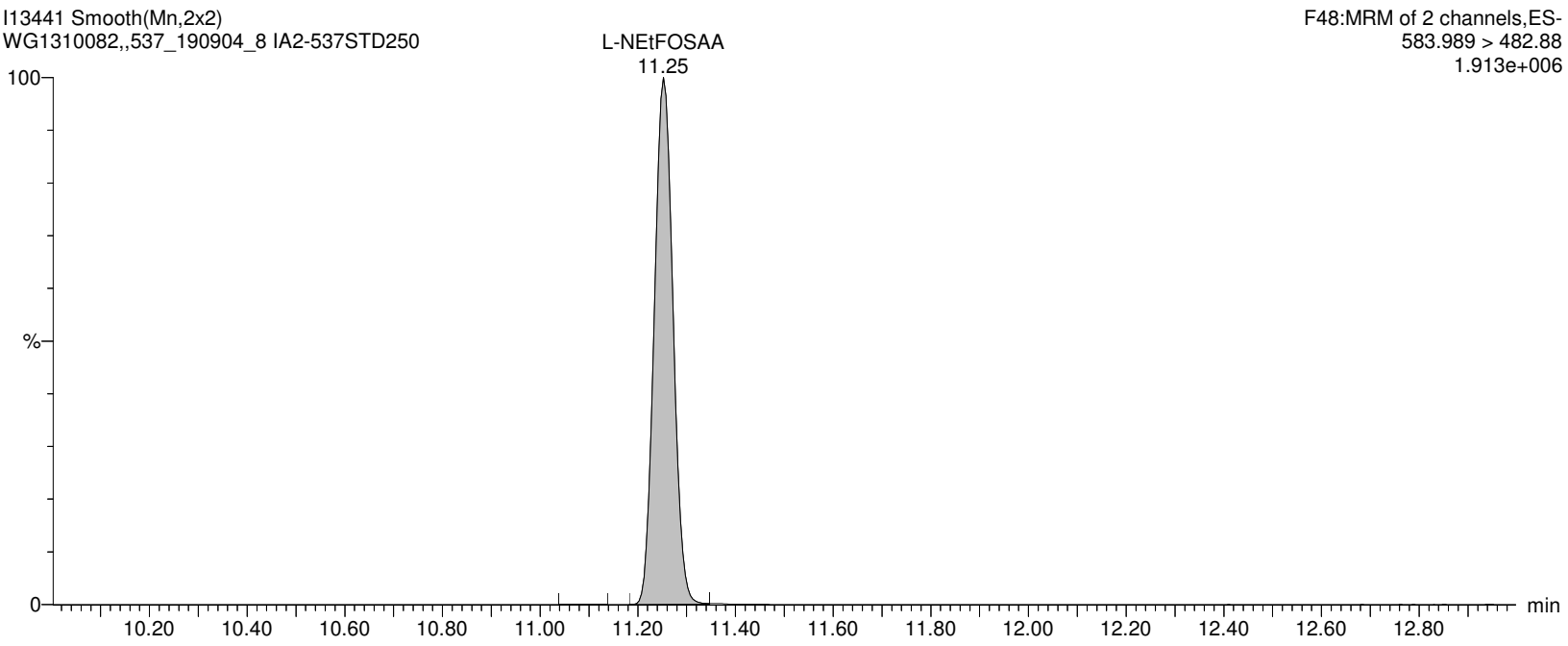

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:03 Eastern Standard Time

Name: I13441
ID: IA2-537STD250
Date: 18-Nov-2019
Time: 12:33:16
Description: WG1310082,,537_190904_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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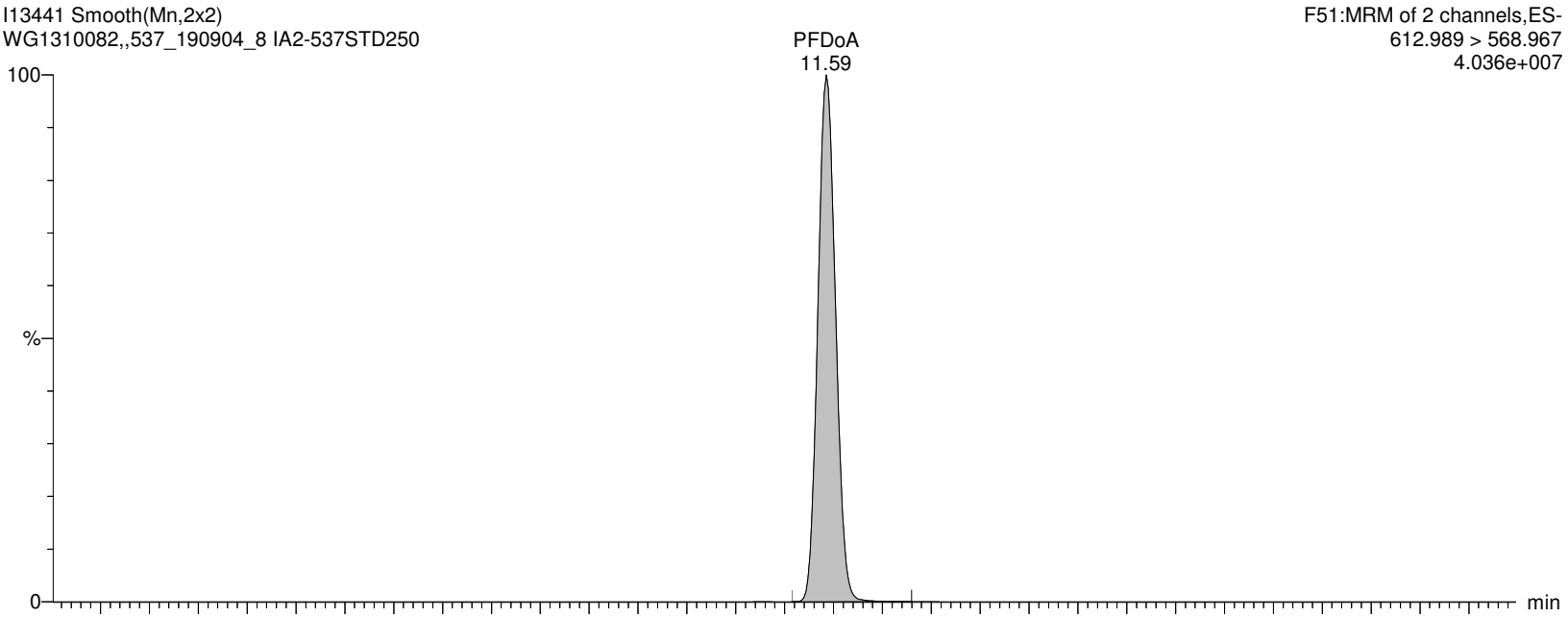

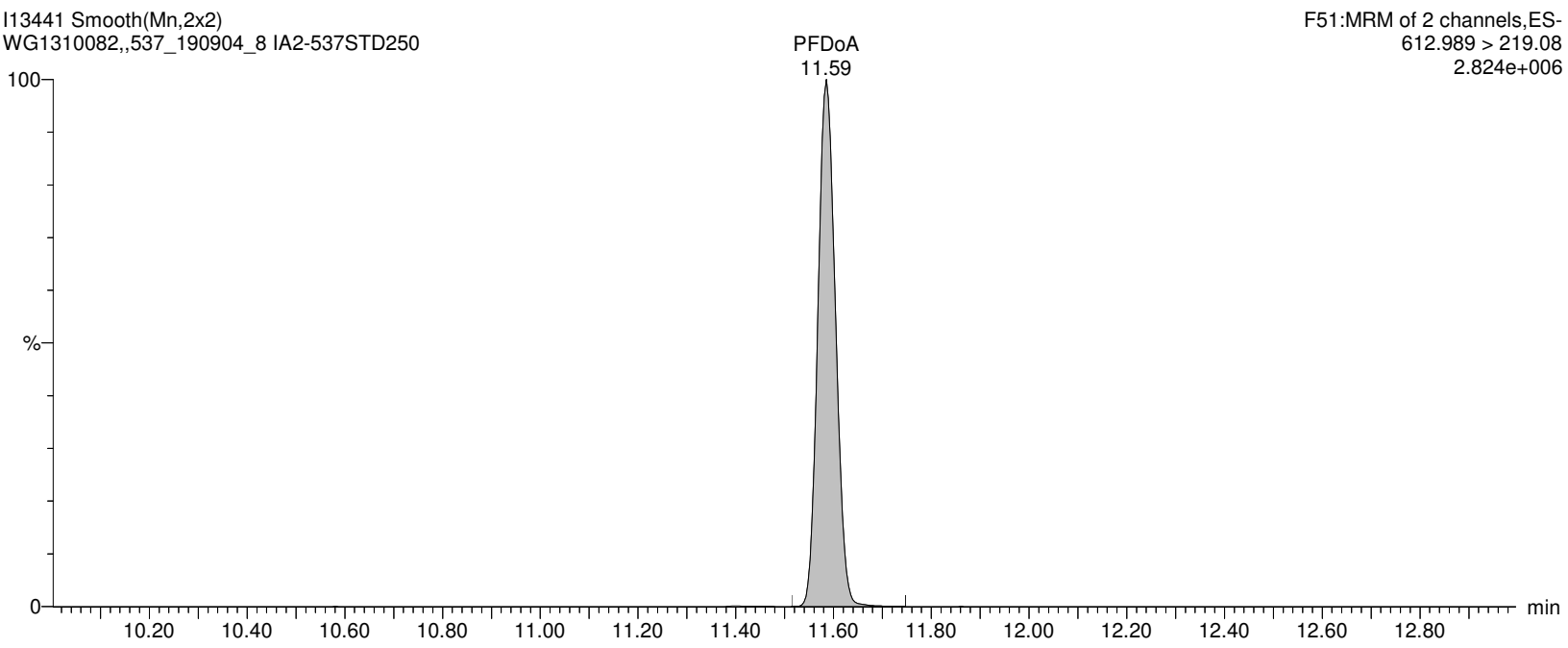

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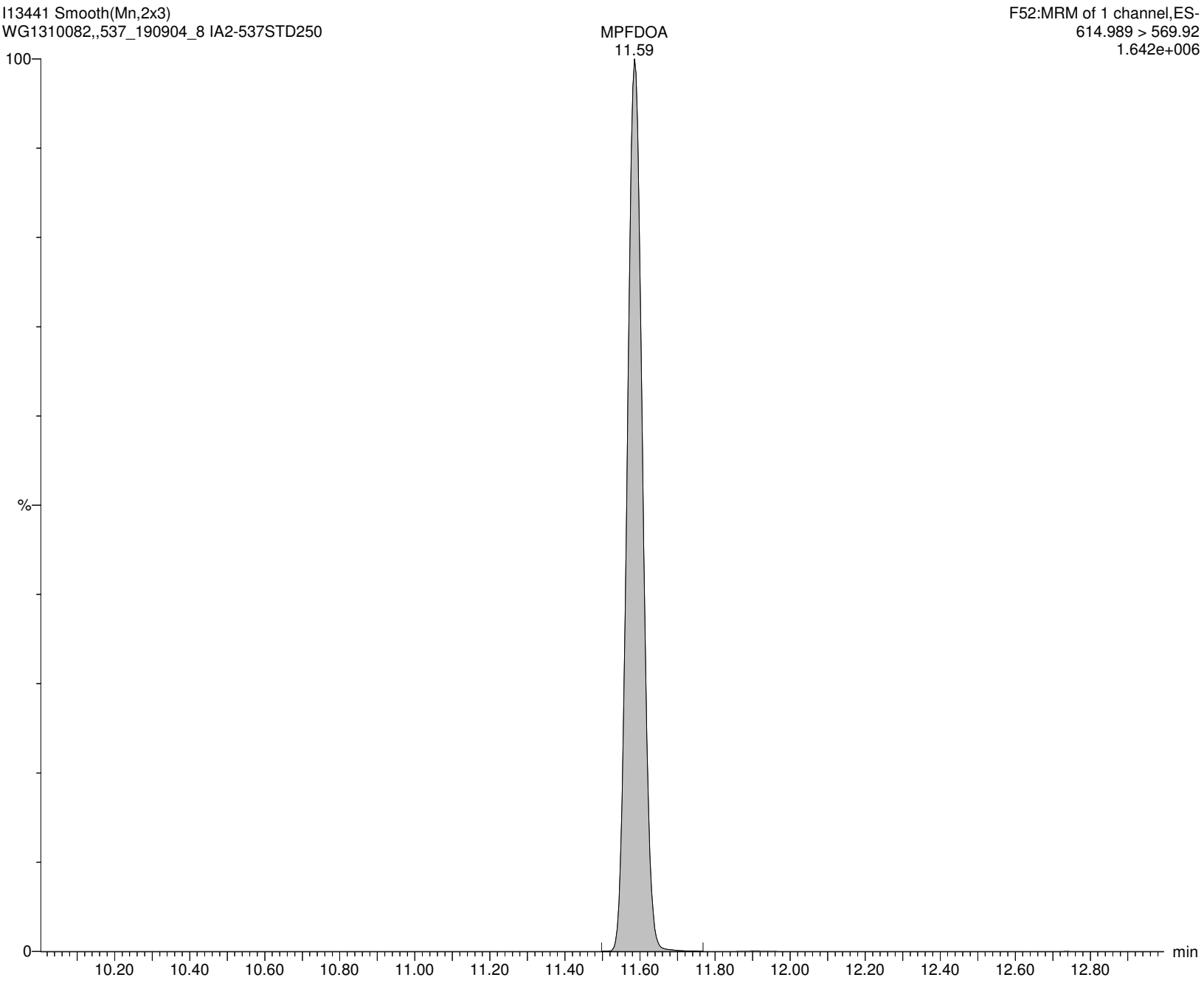

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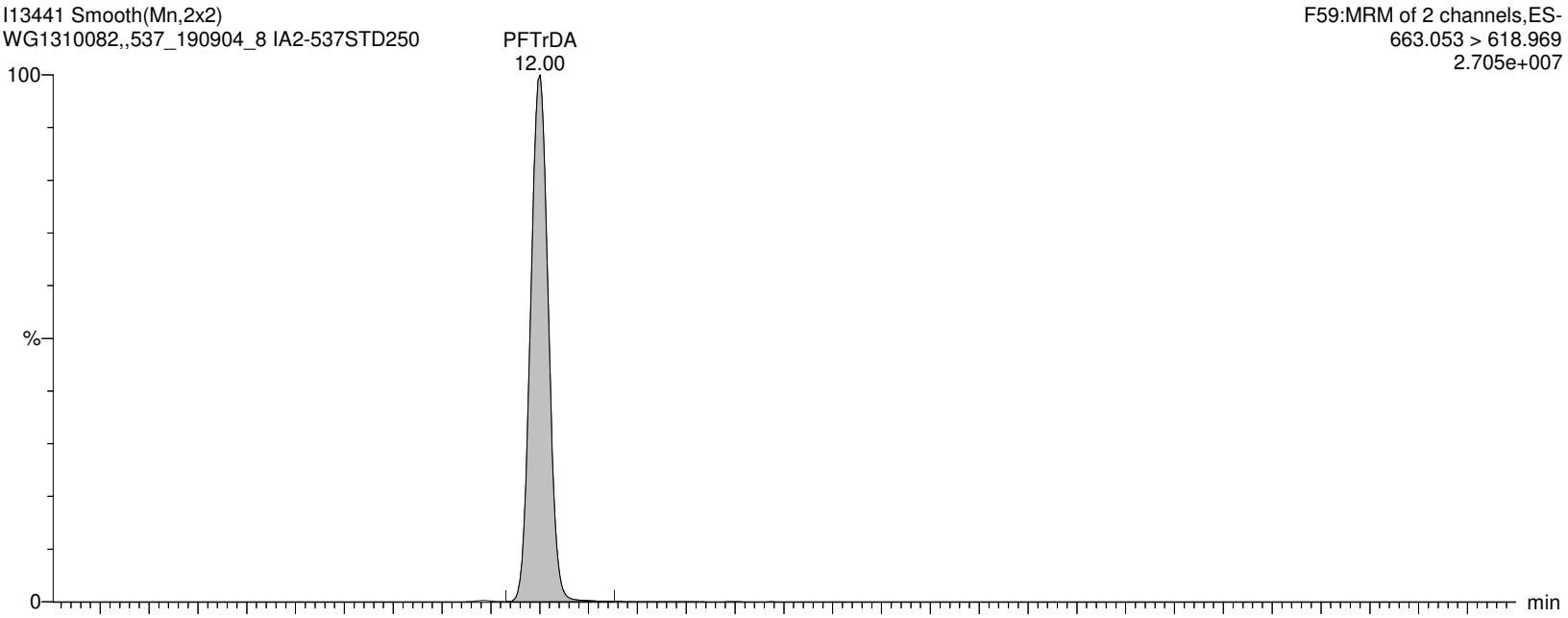

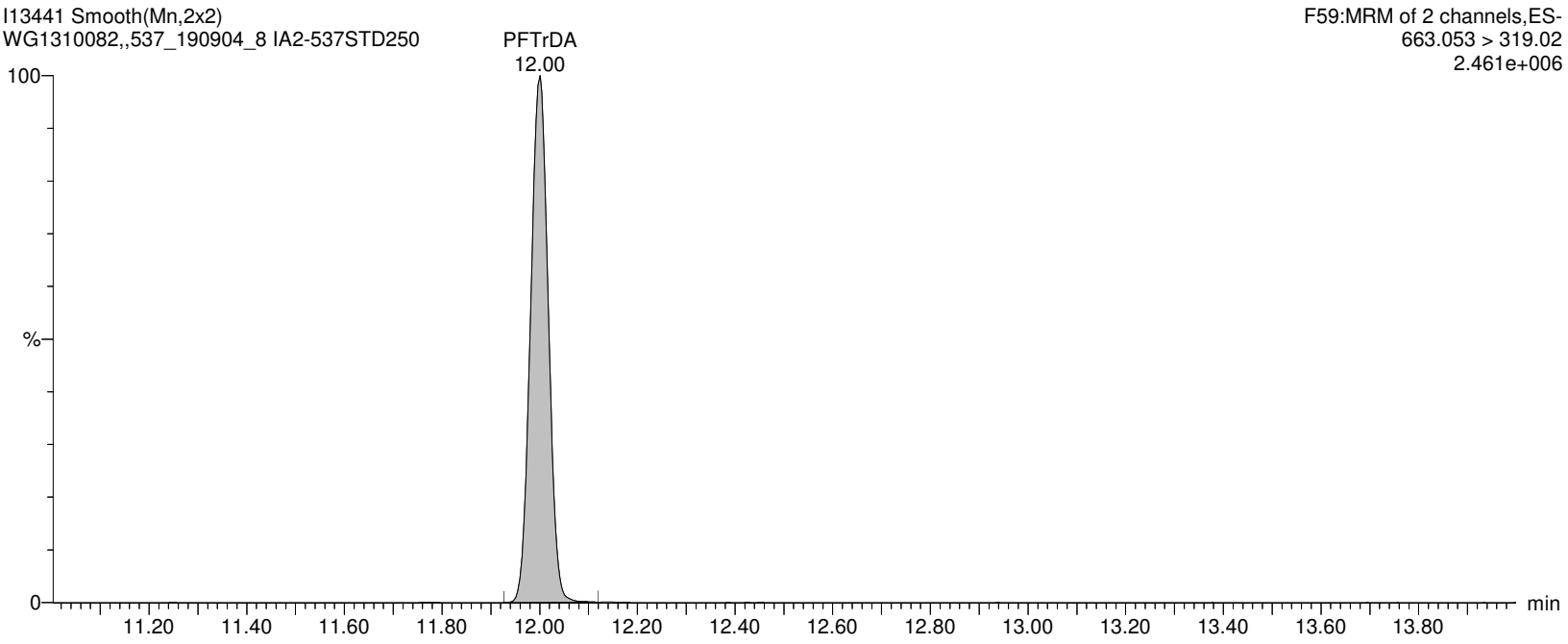

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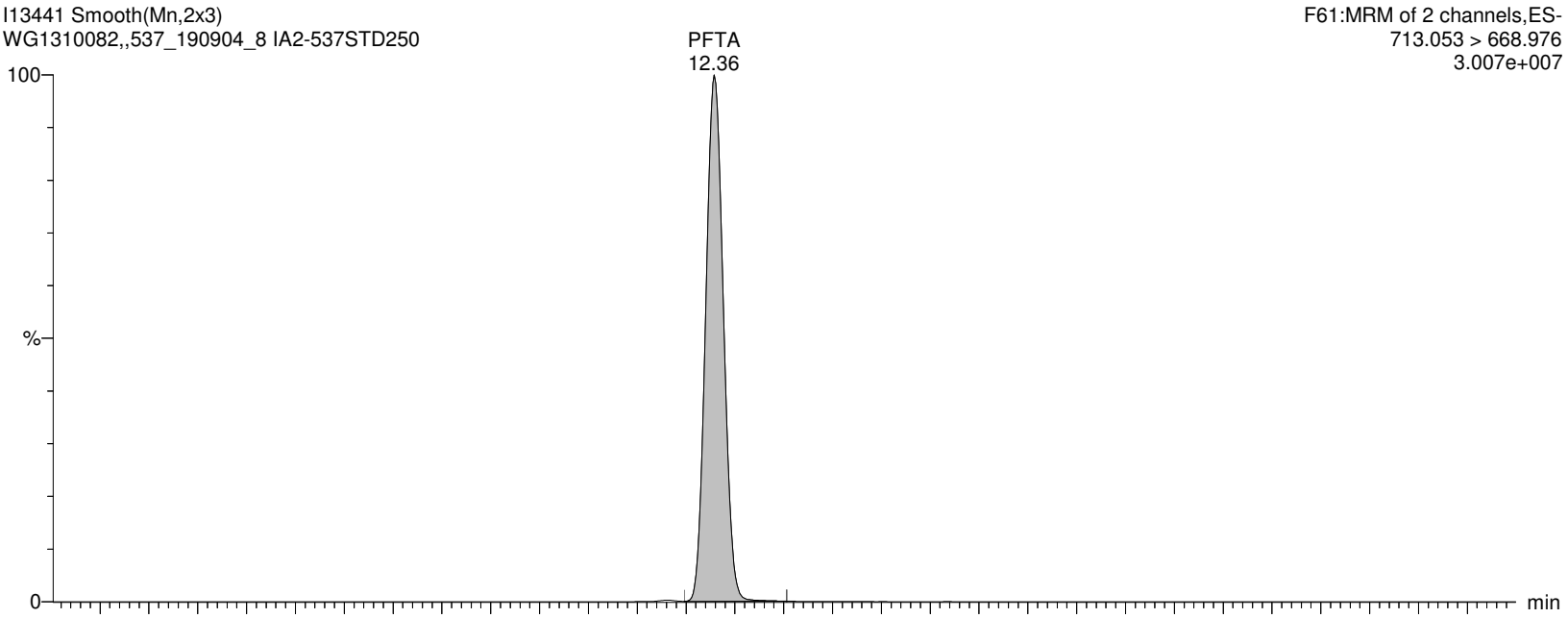

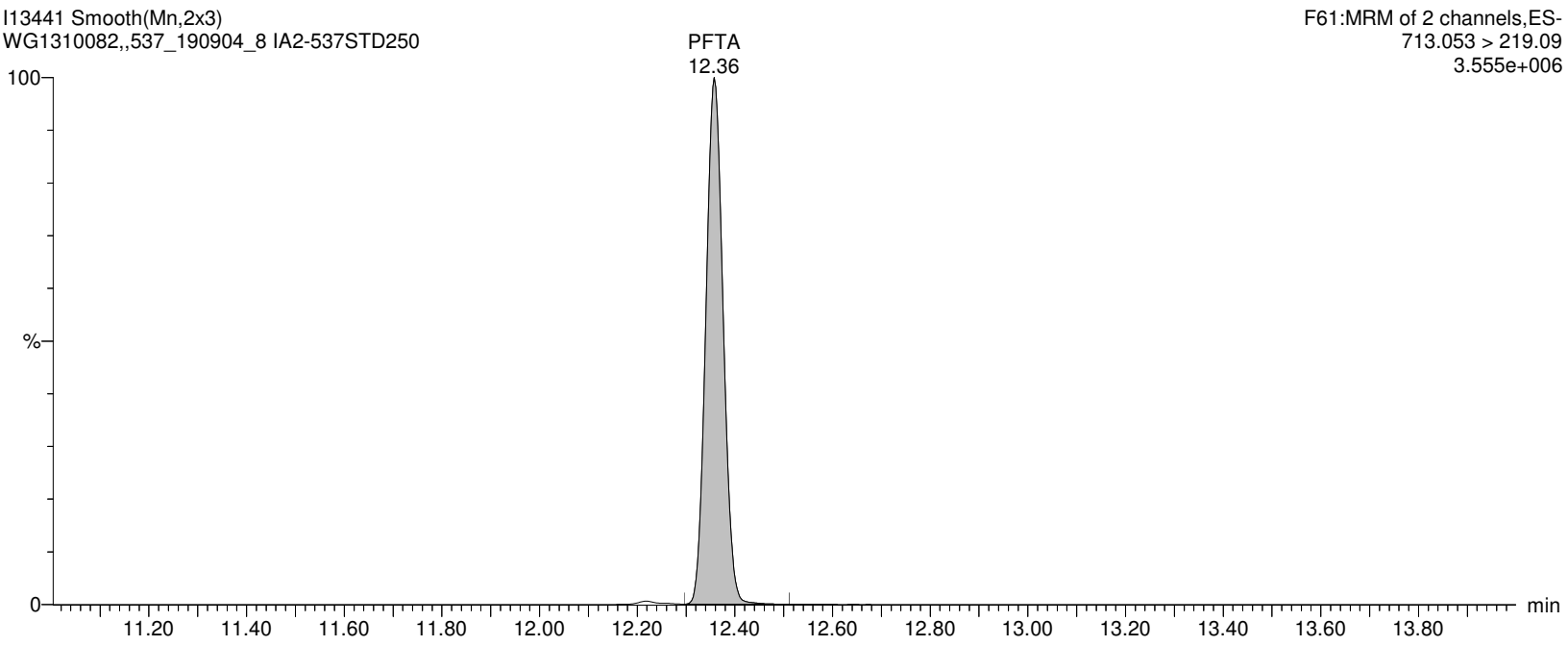

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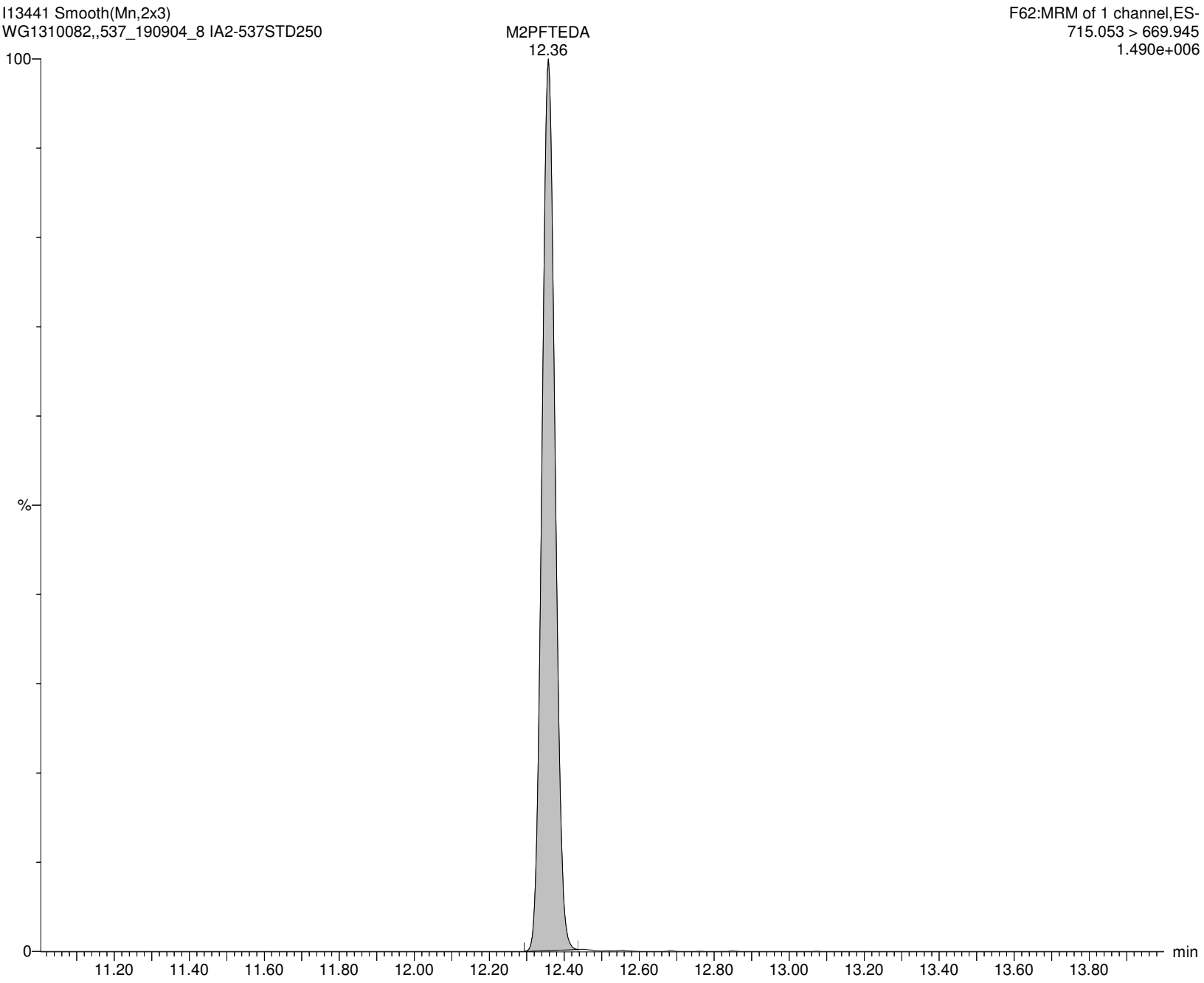

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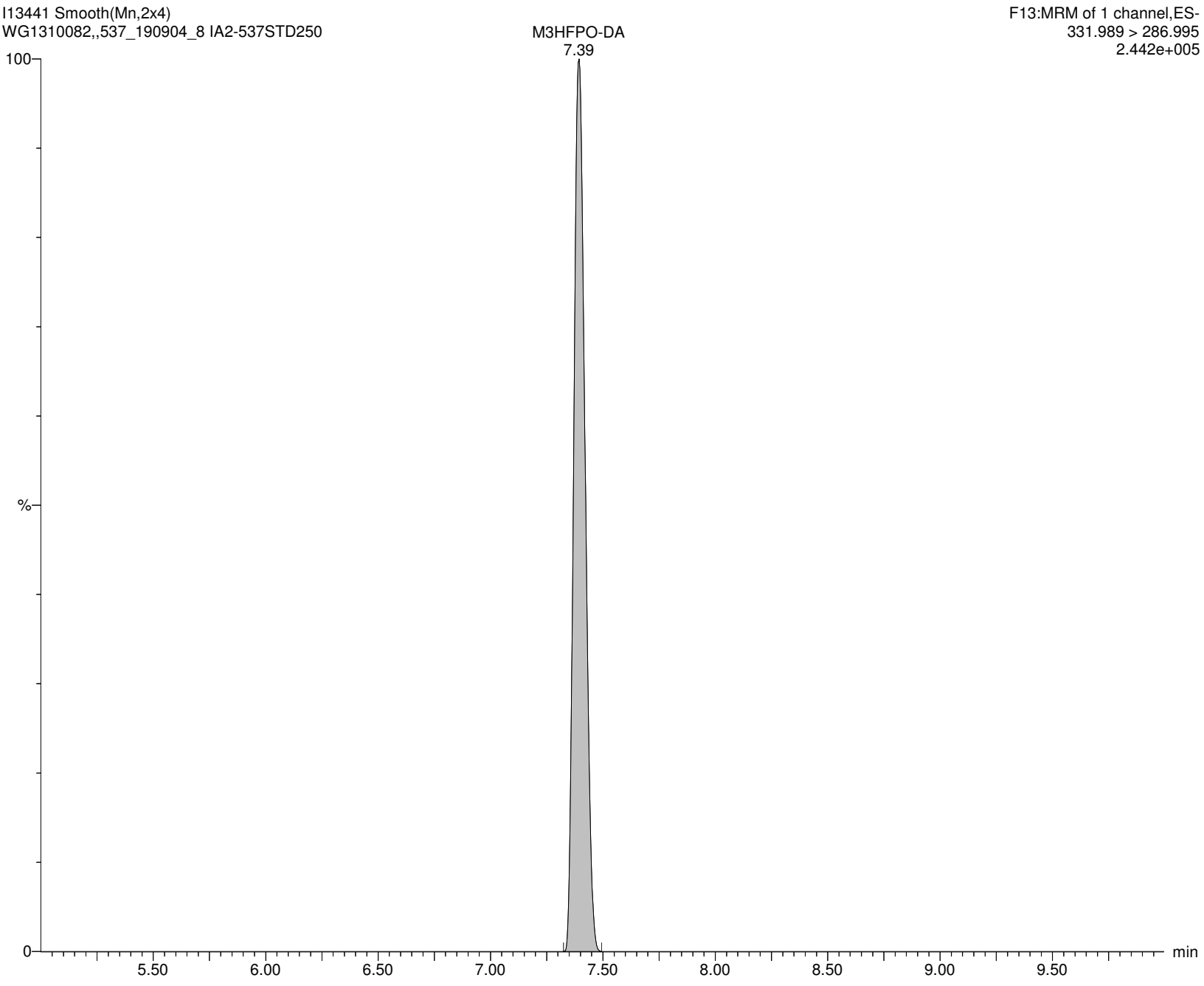

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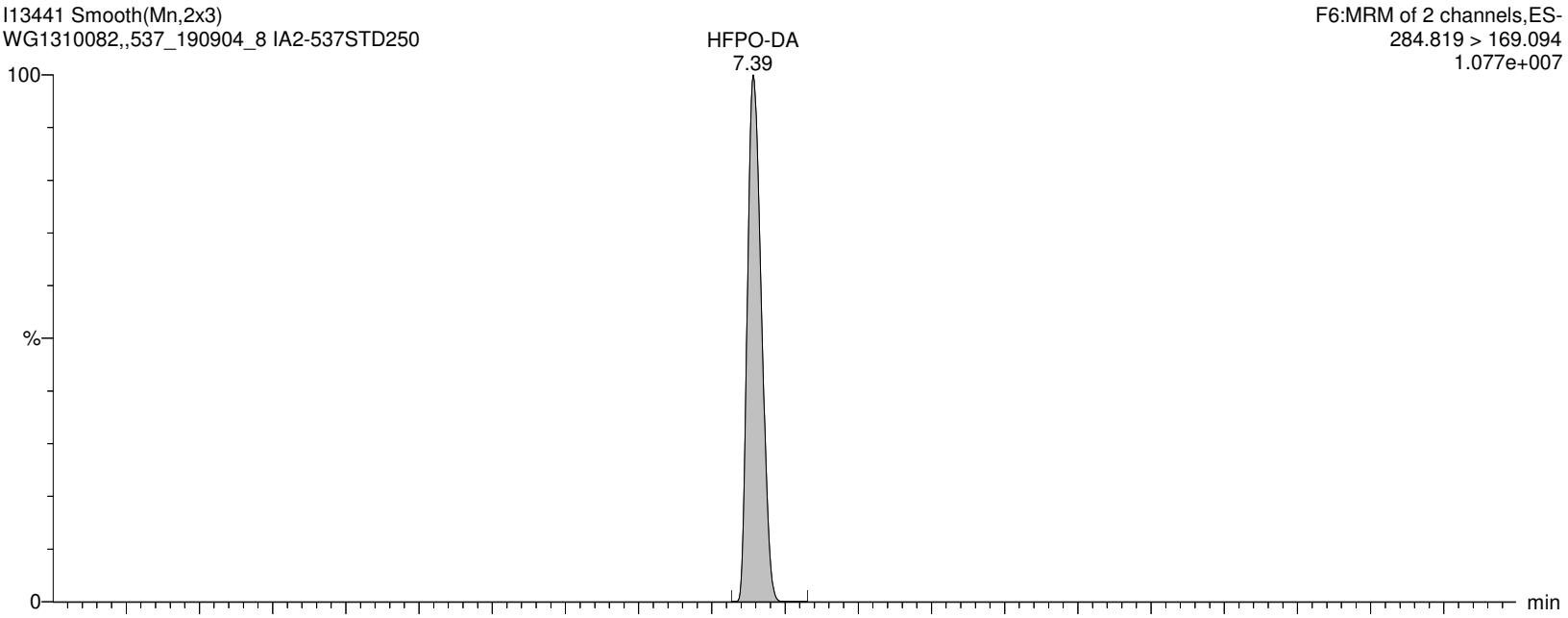

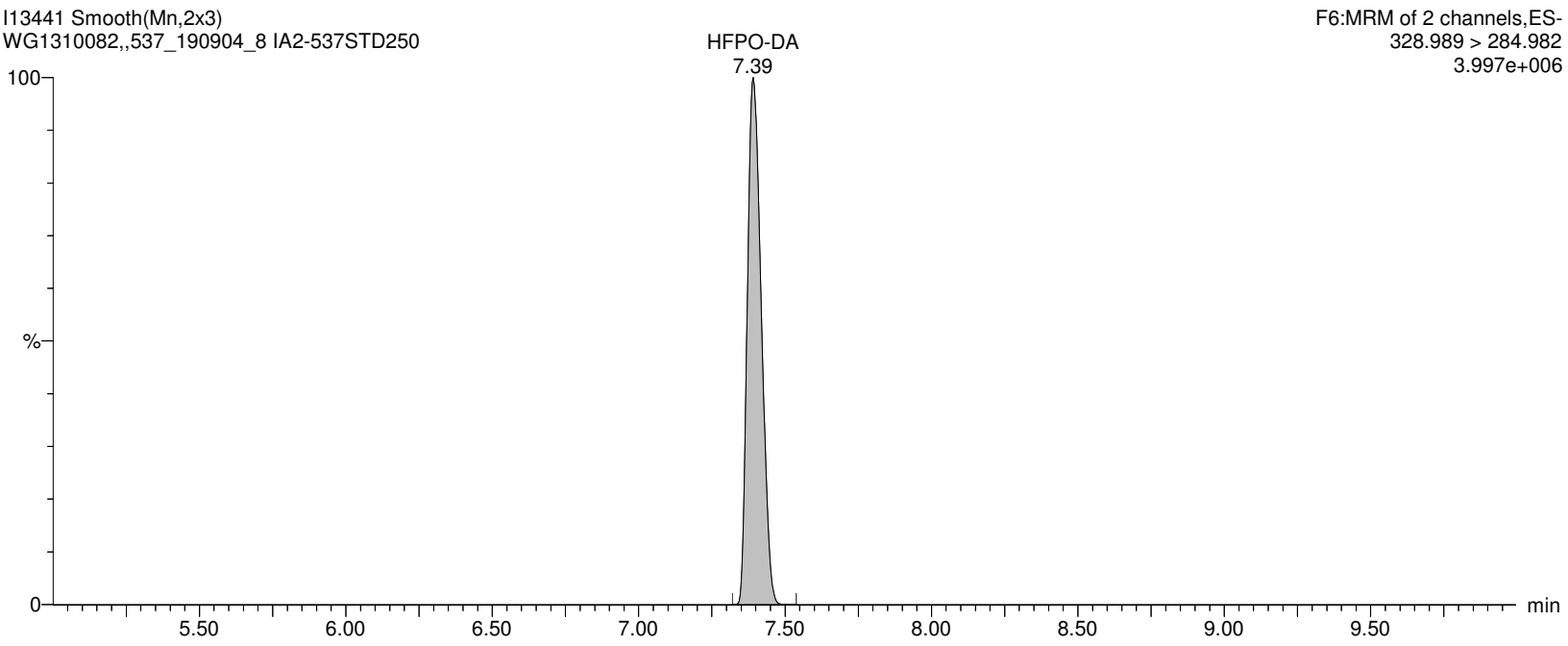

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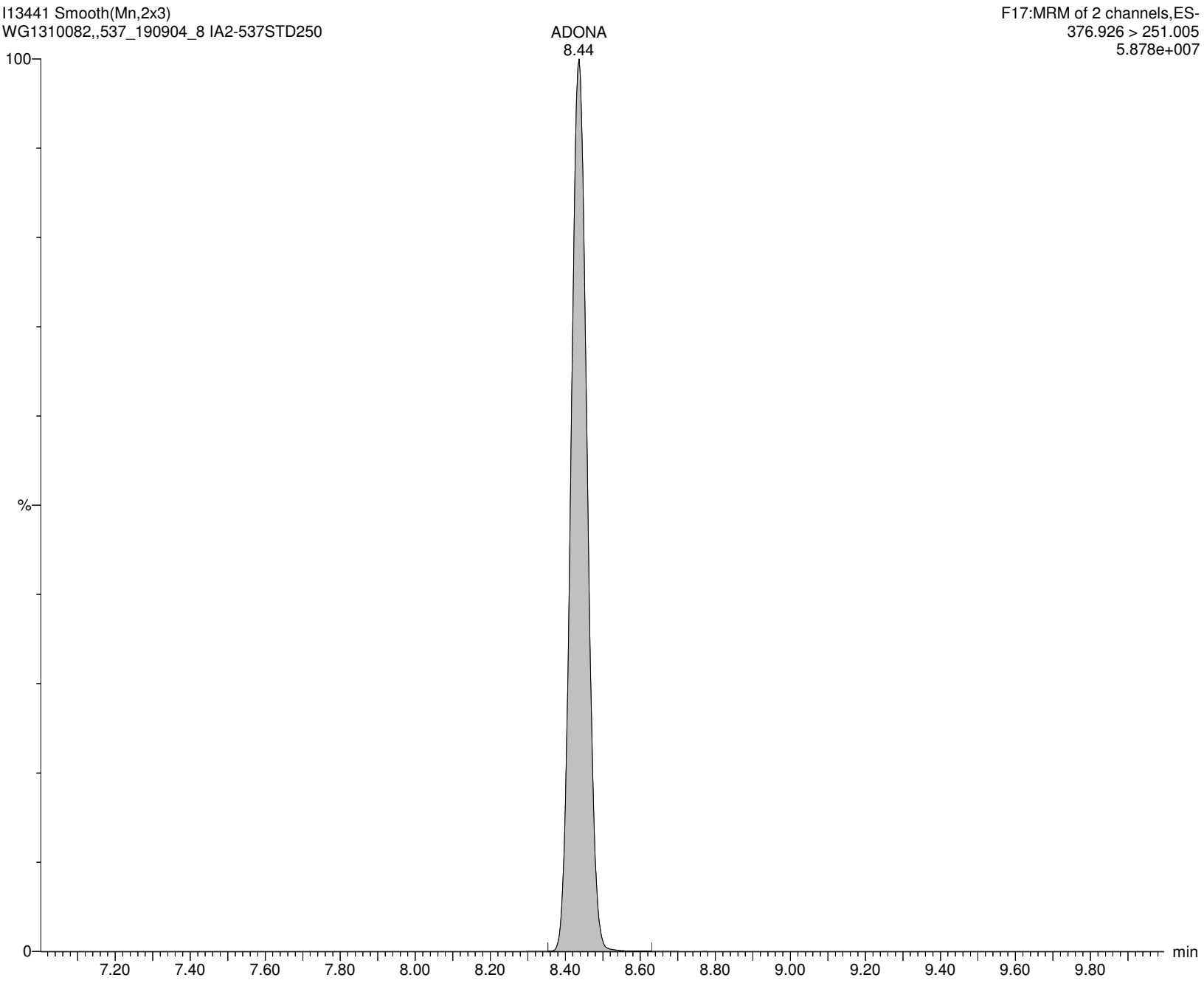

all concentration units in (ng/mL)

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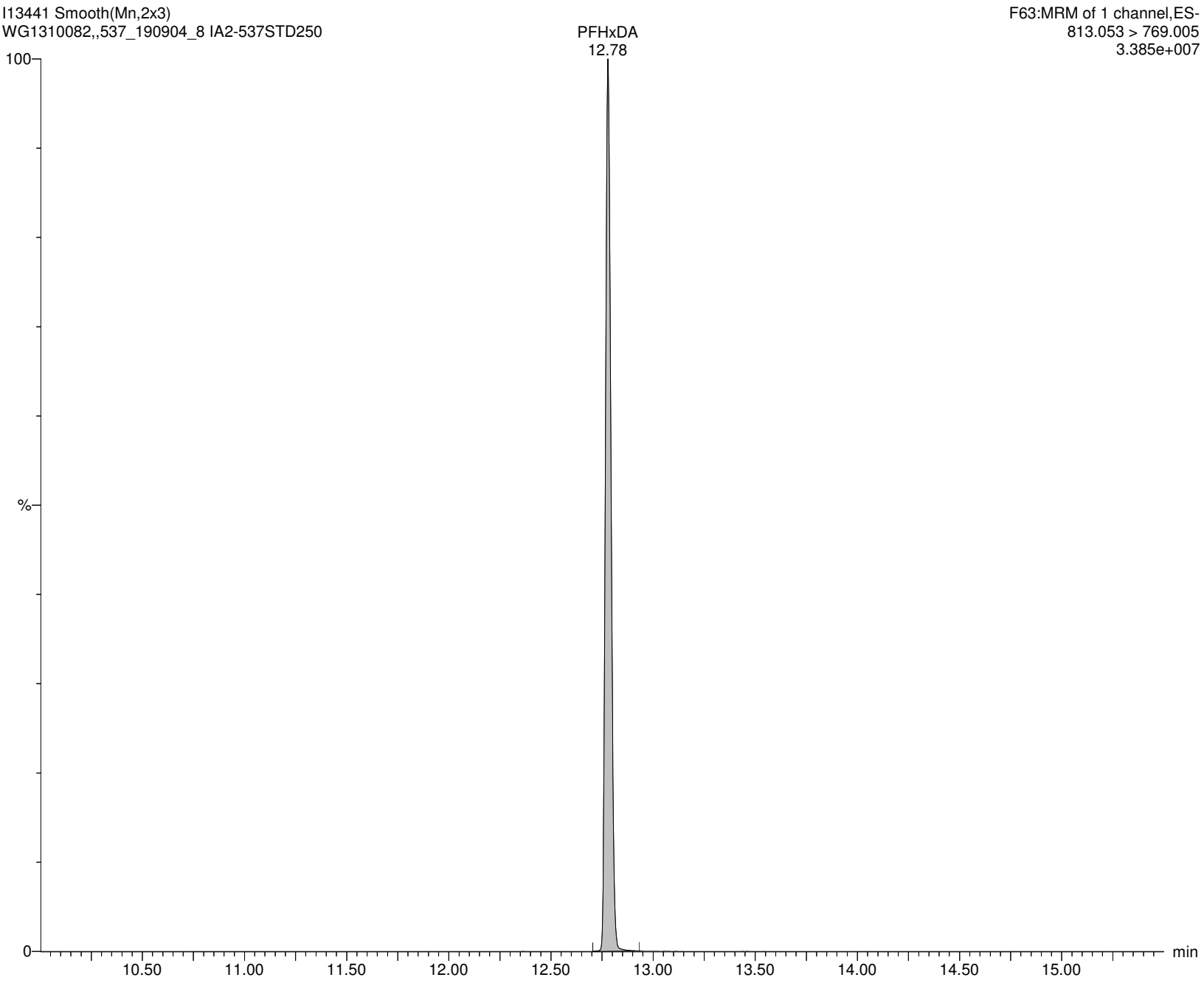

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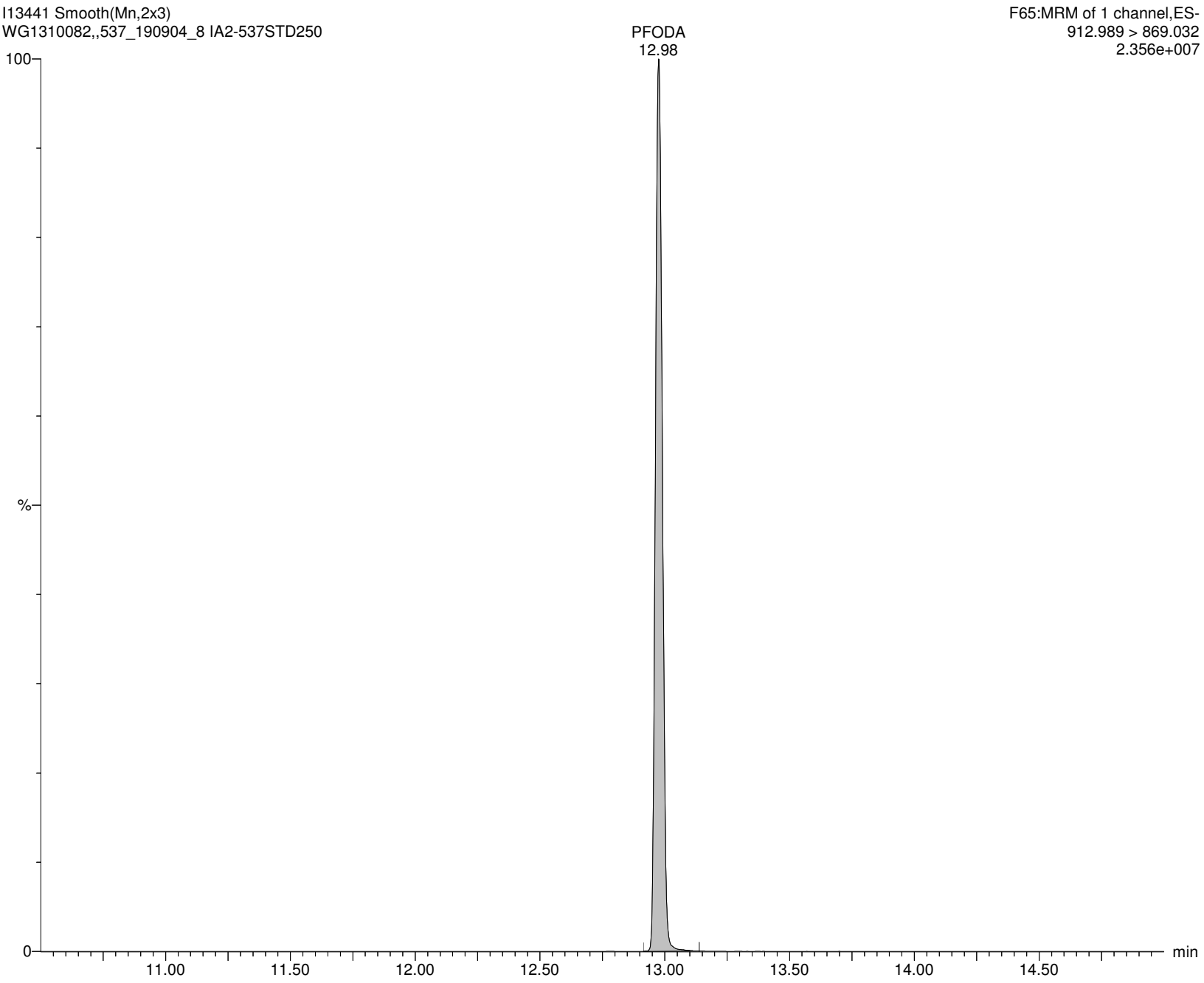

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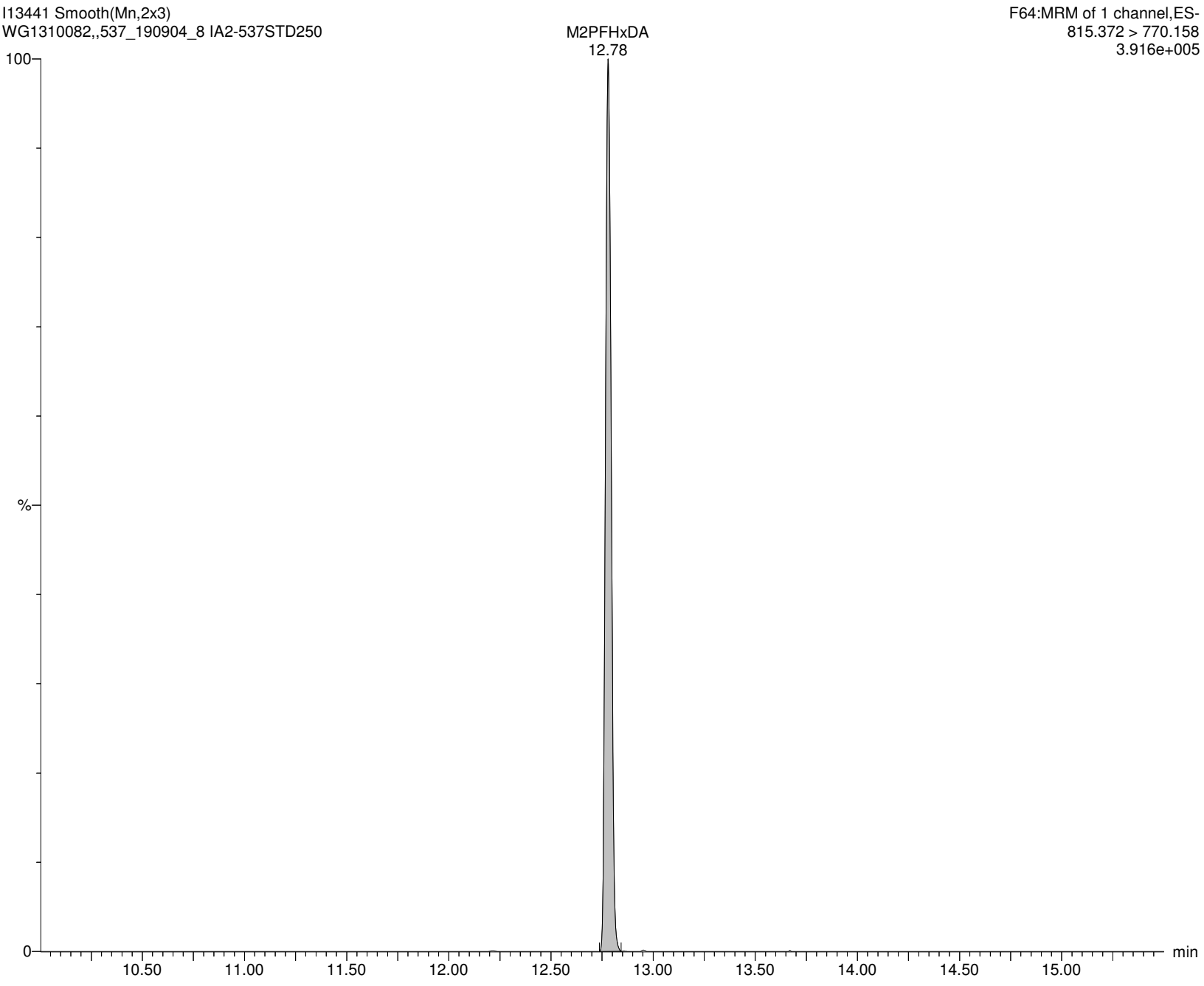

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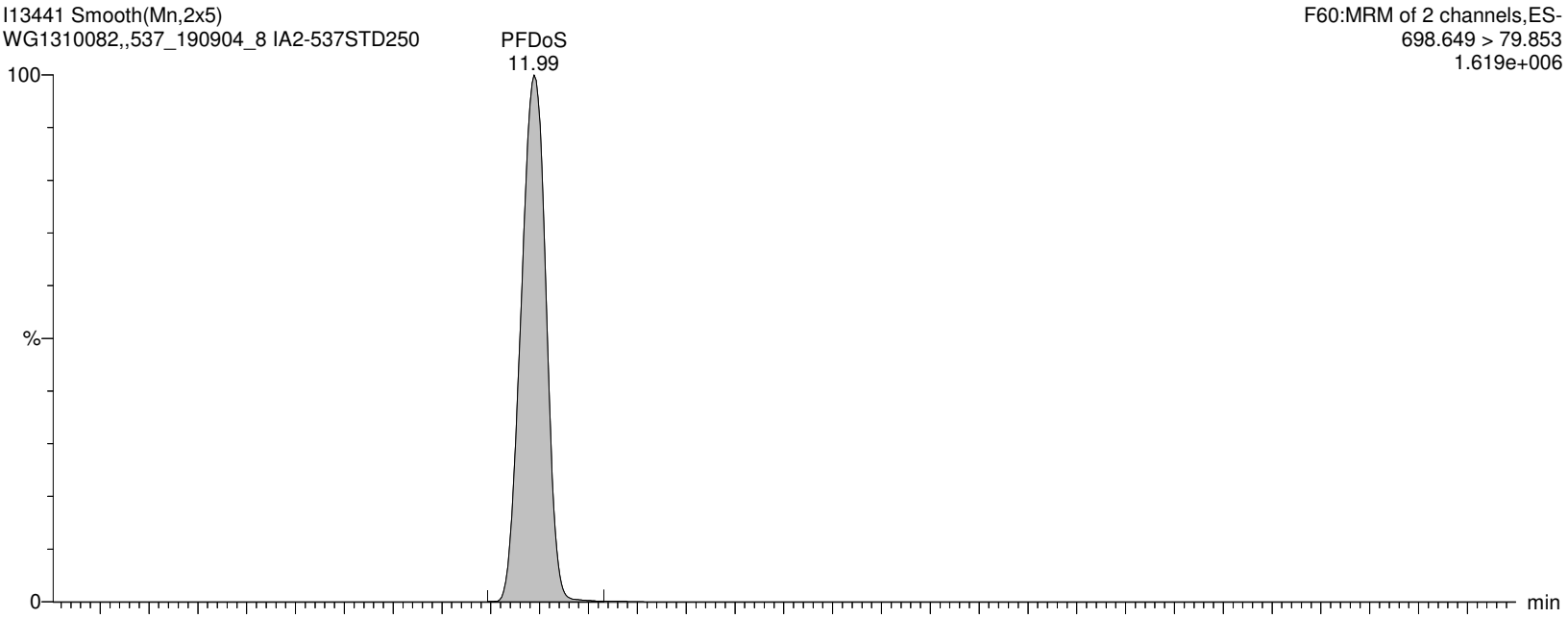

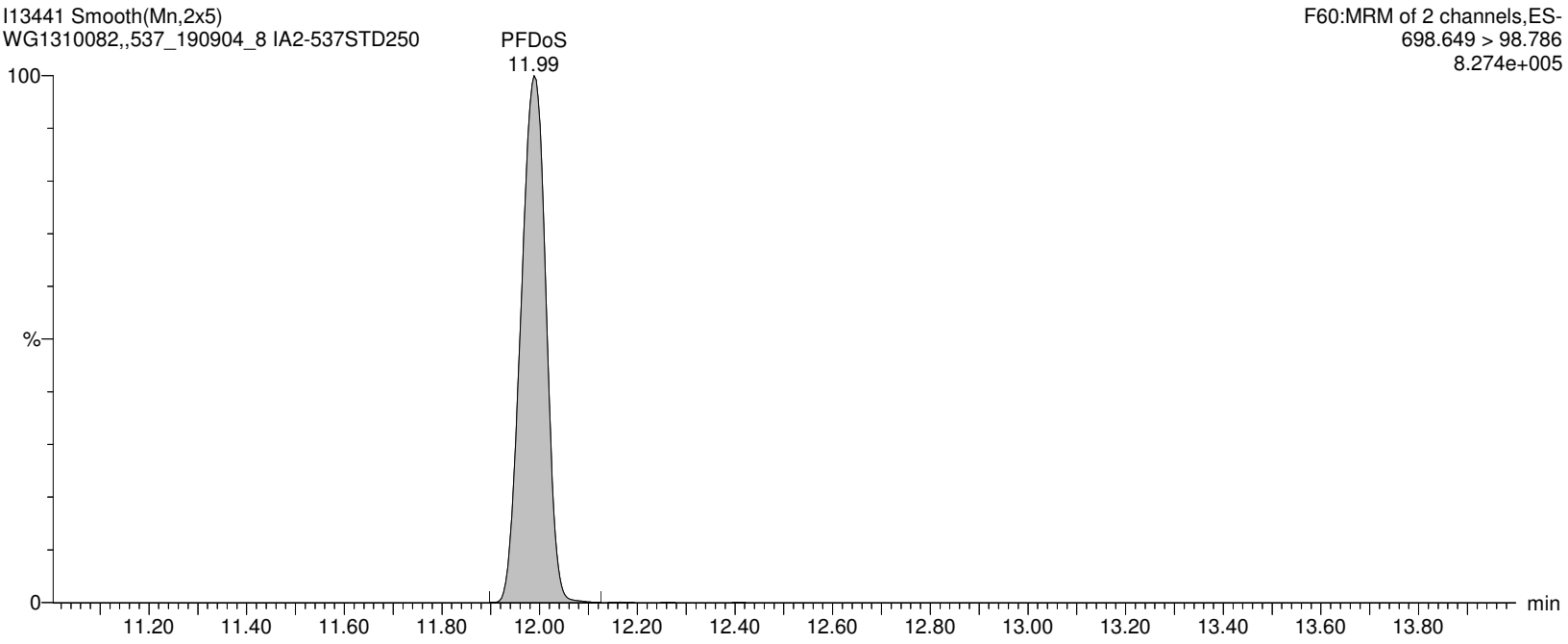

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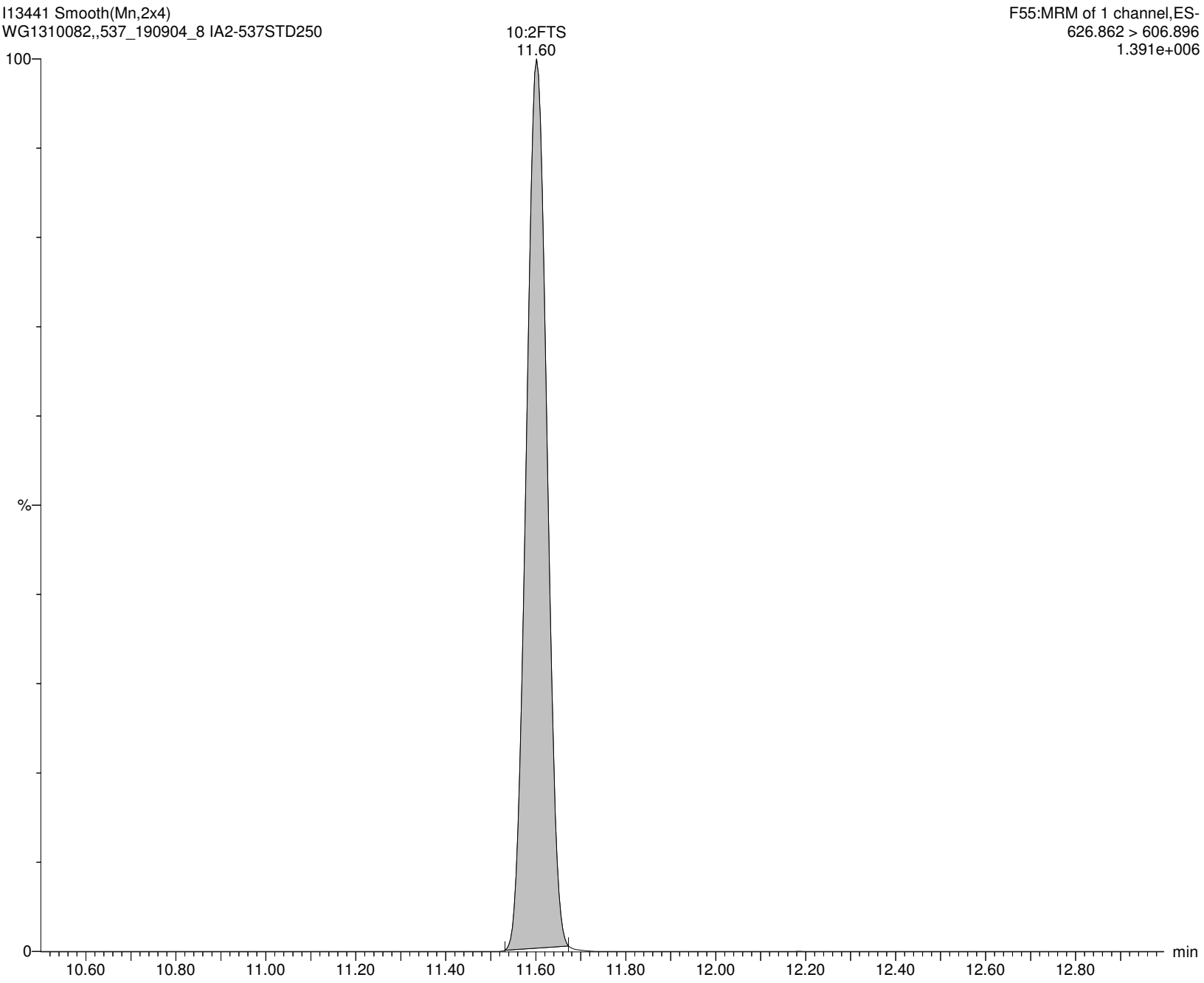

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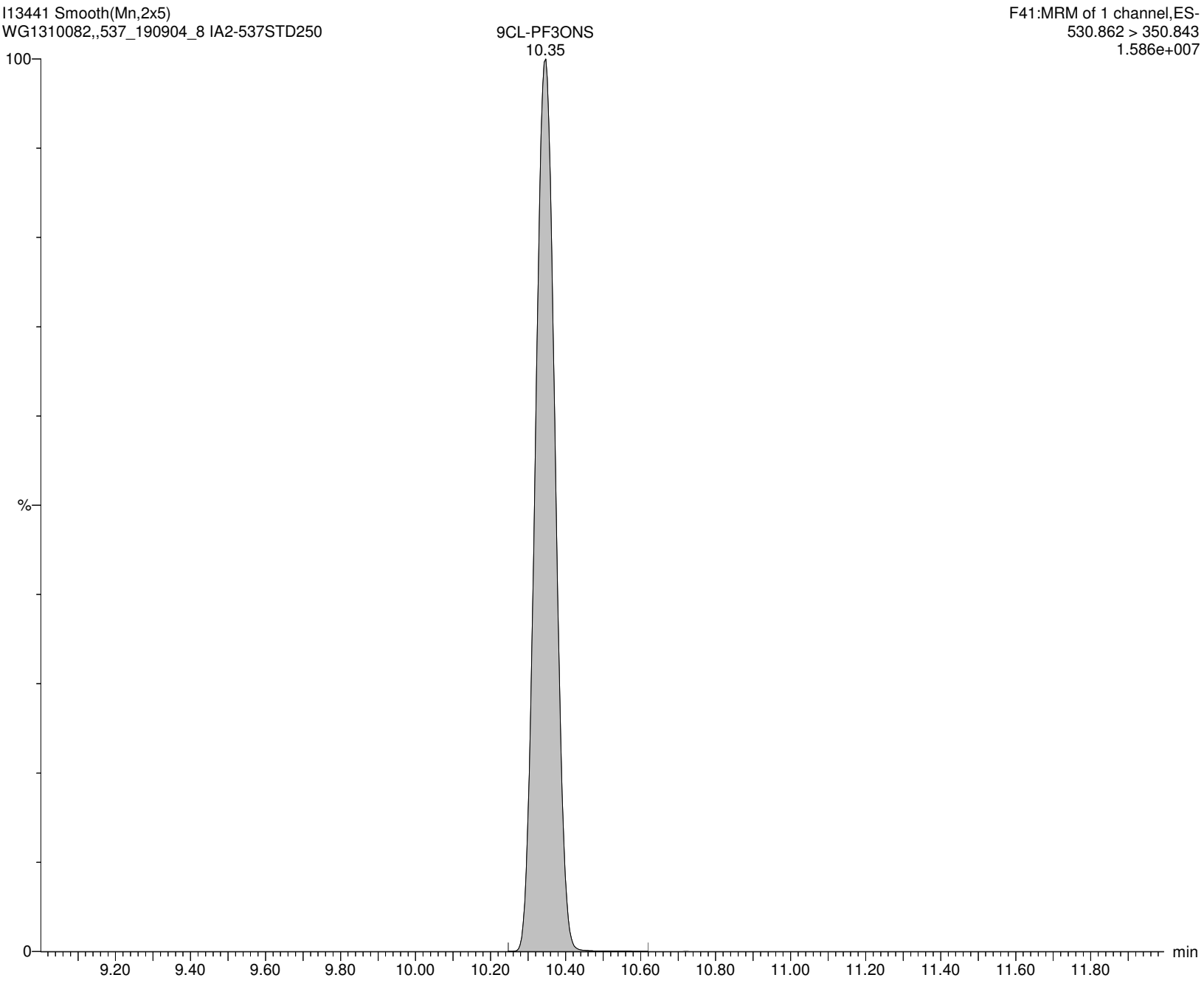

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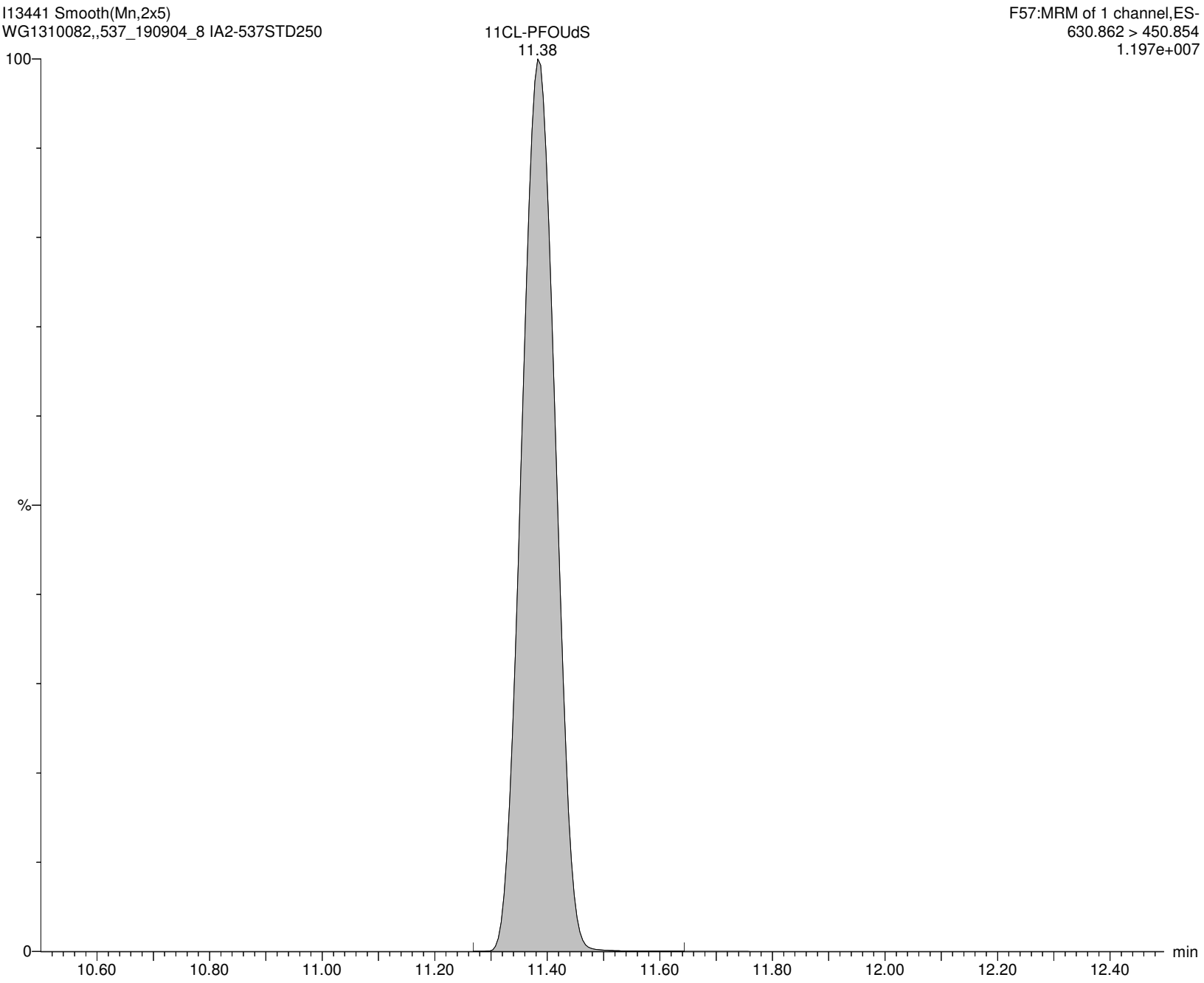

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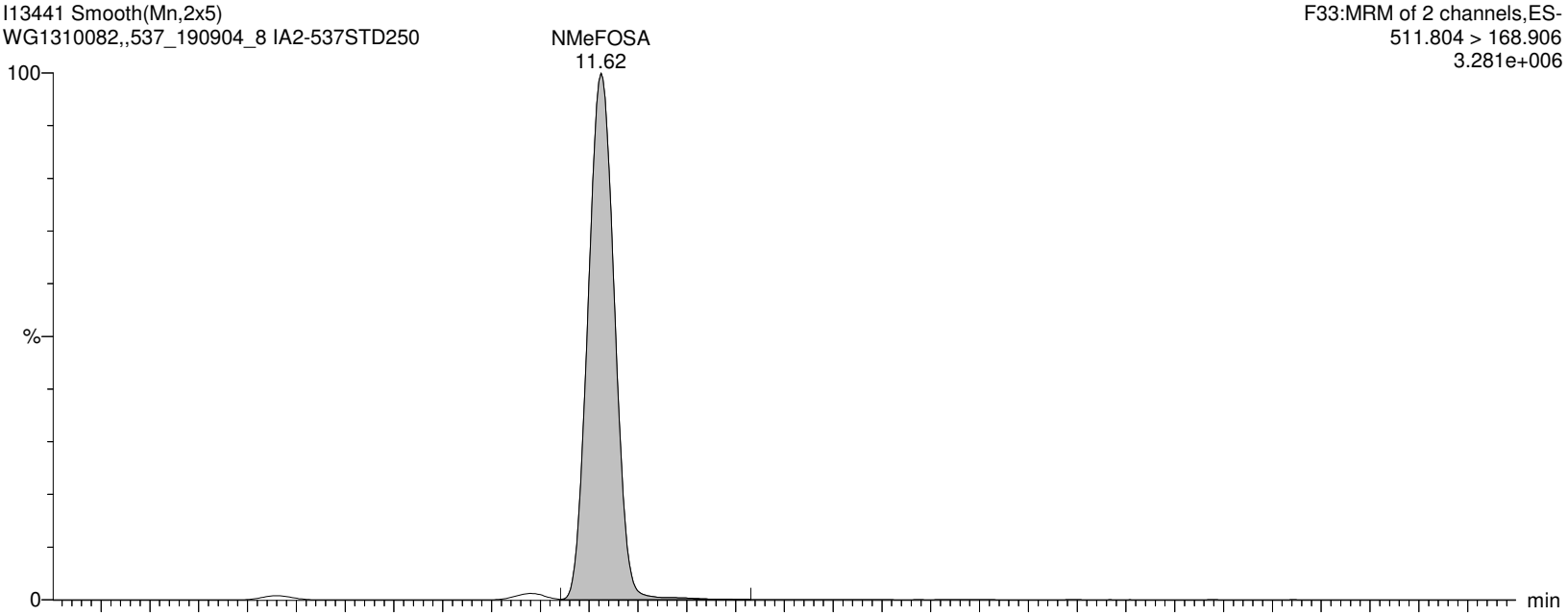

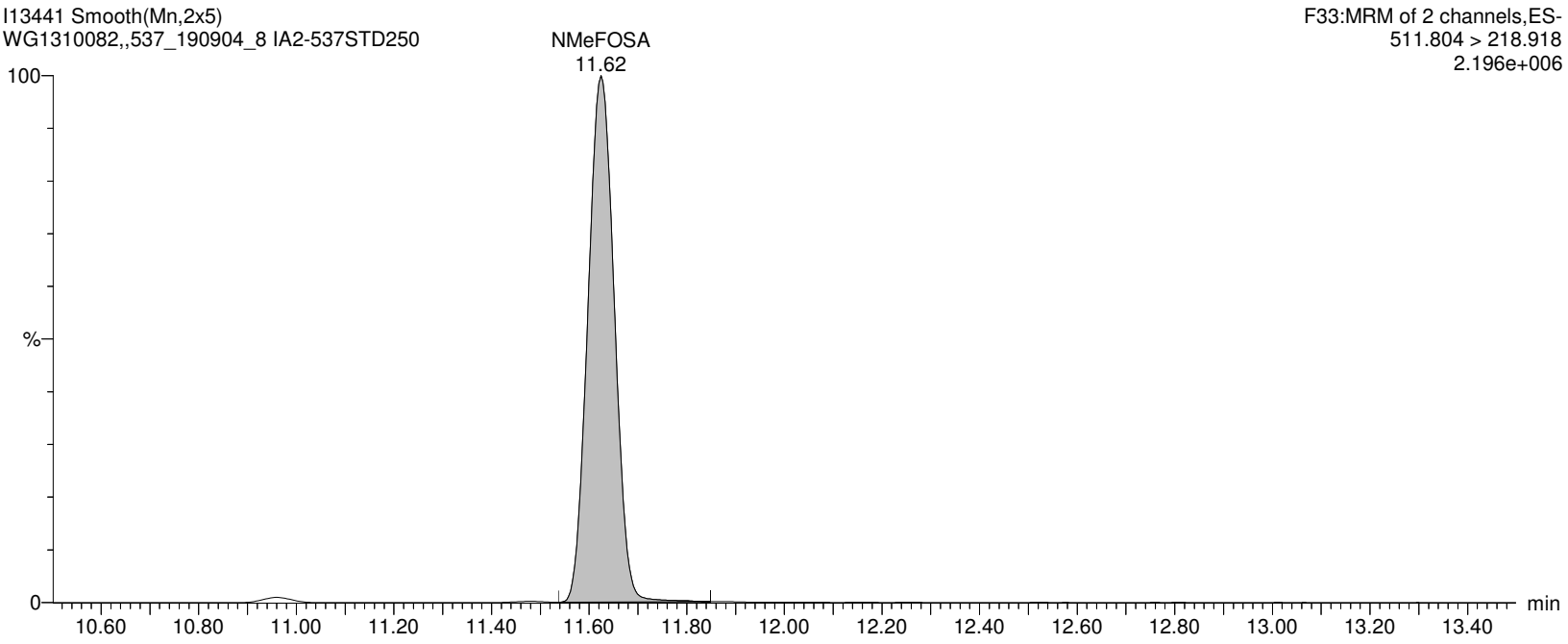

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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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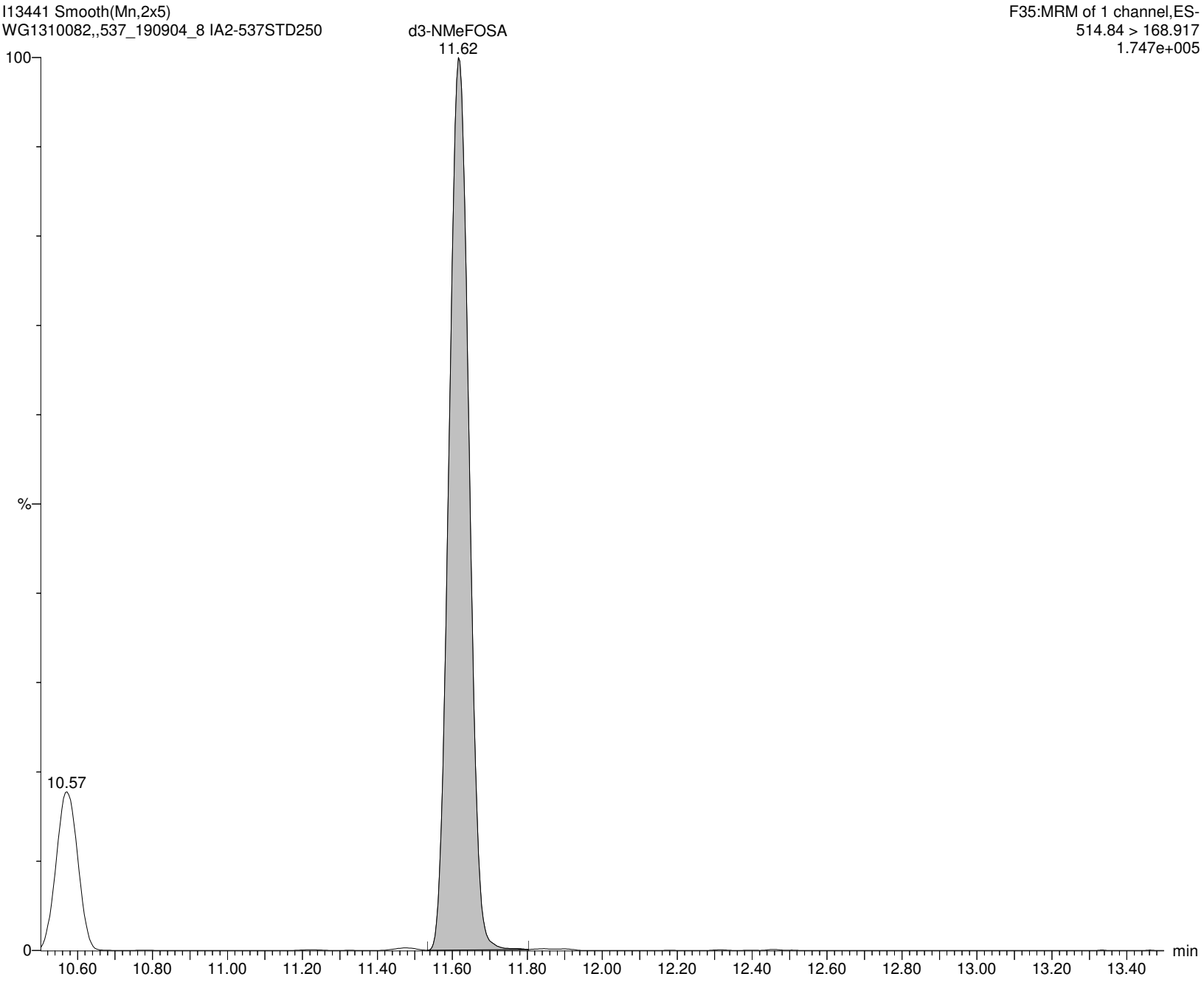

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:03 Eastern Standard Time

Name: I13441
ID: IA2-537STD250
Date: 18-Nov-2019
Time: 12:33:16
Description: WG1310082,,537_190904_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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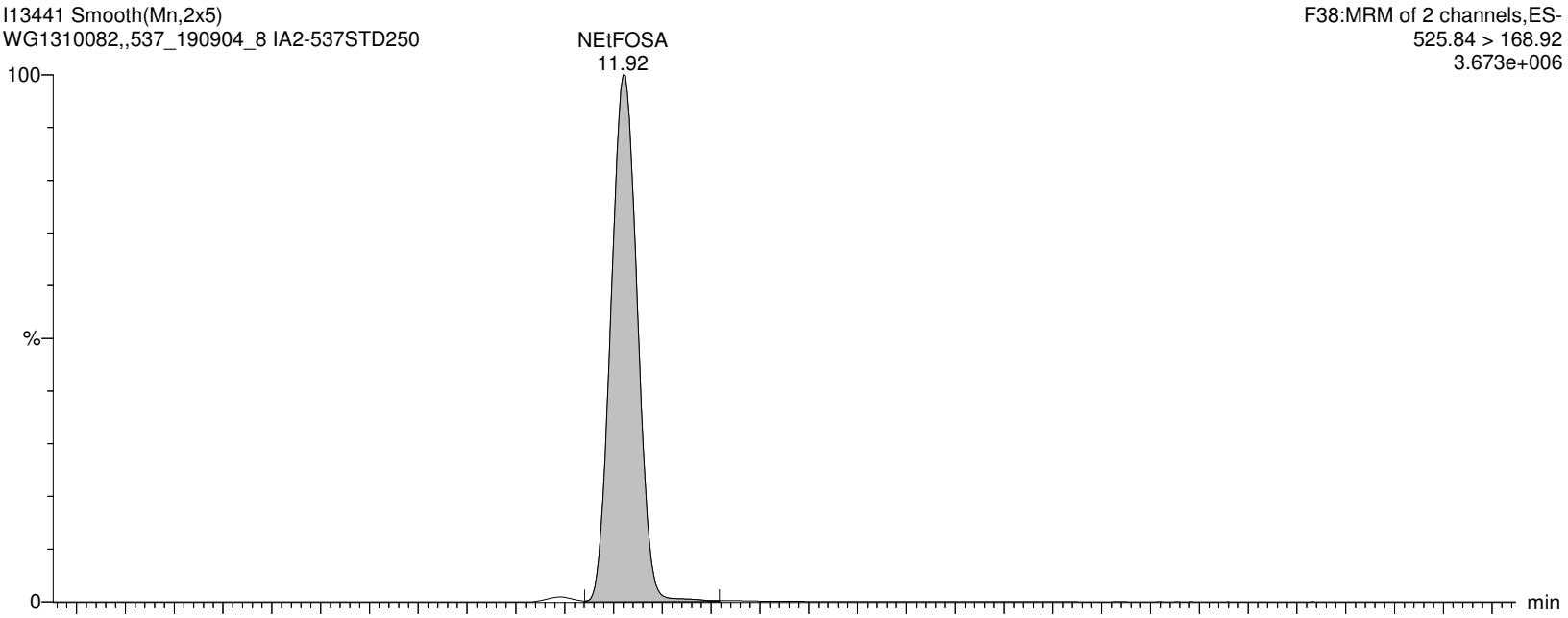

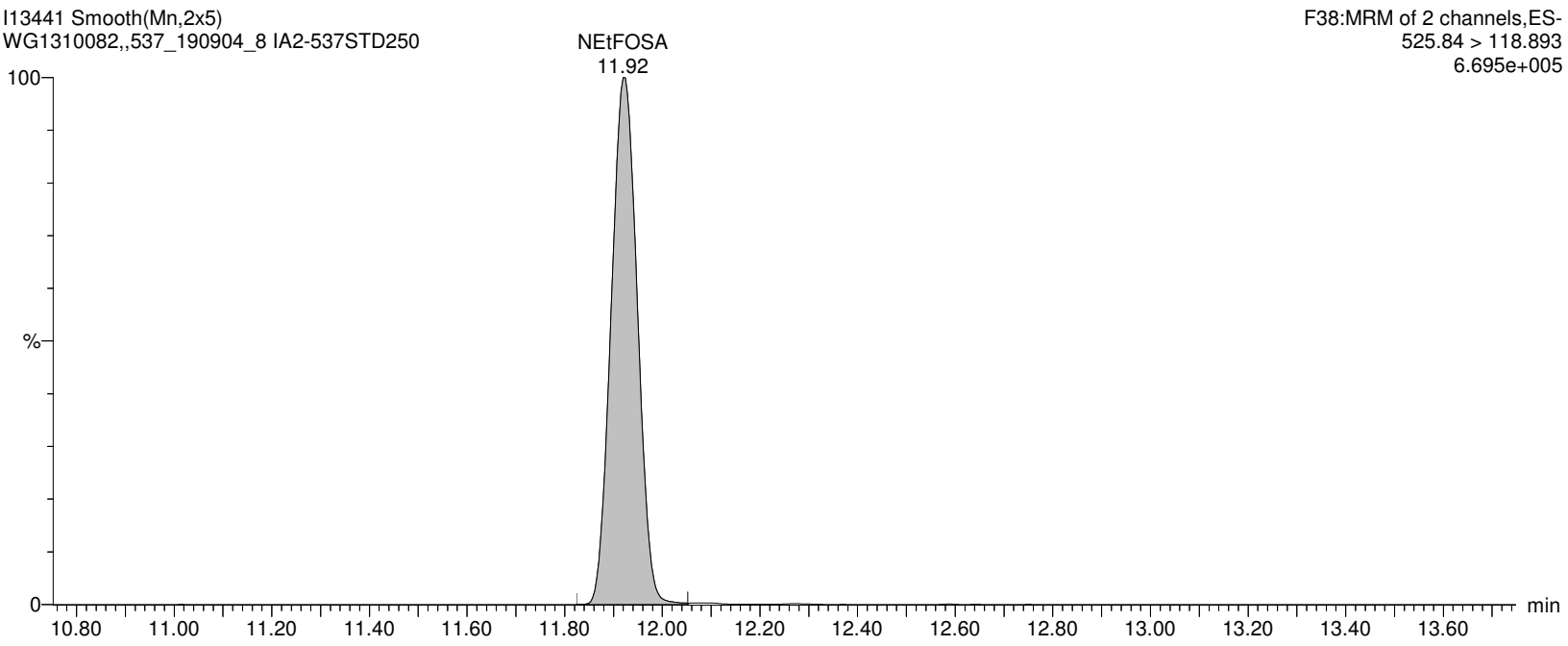

all concentration units in (ng/mL)

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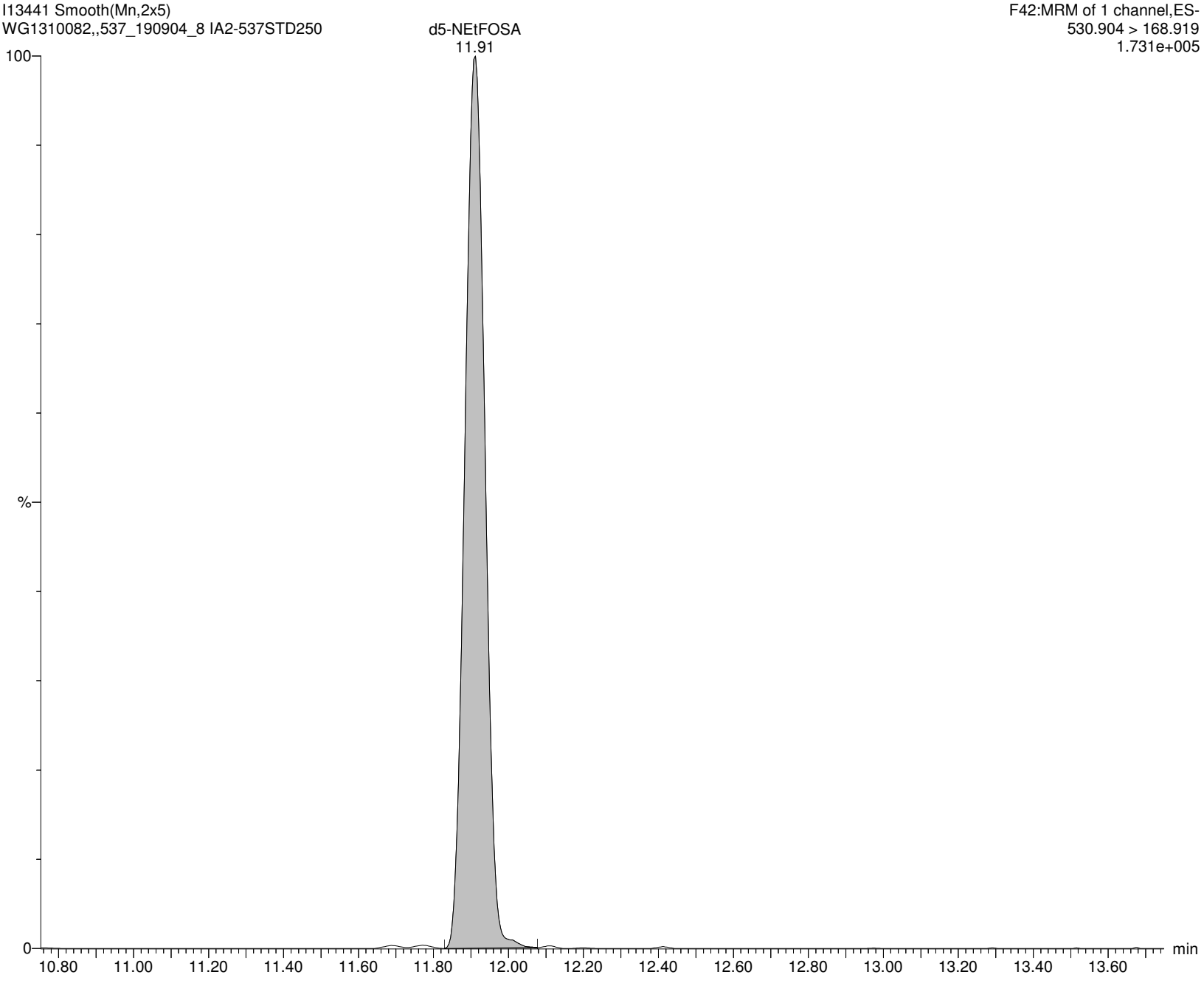

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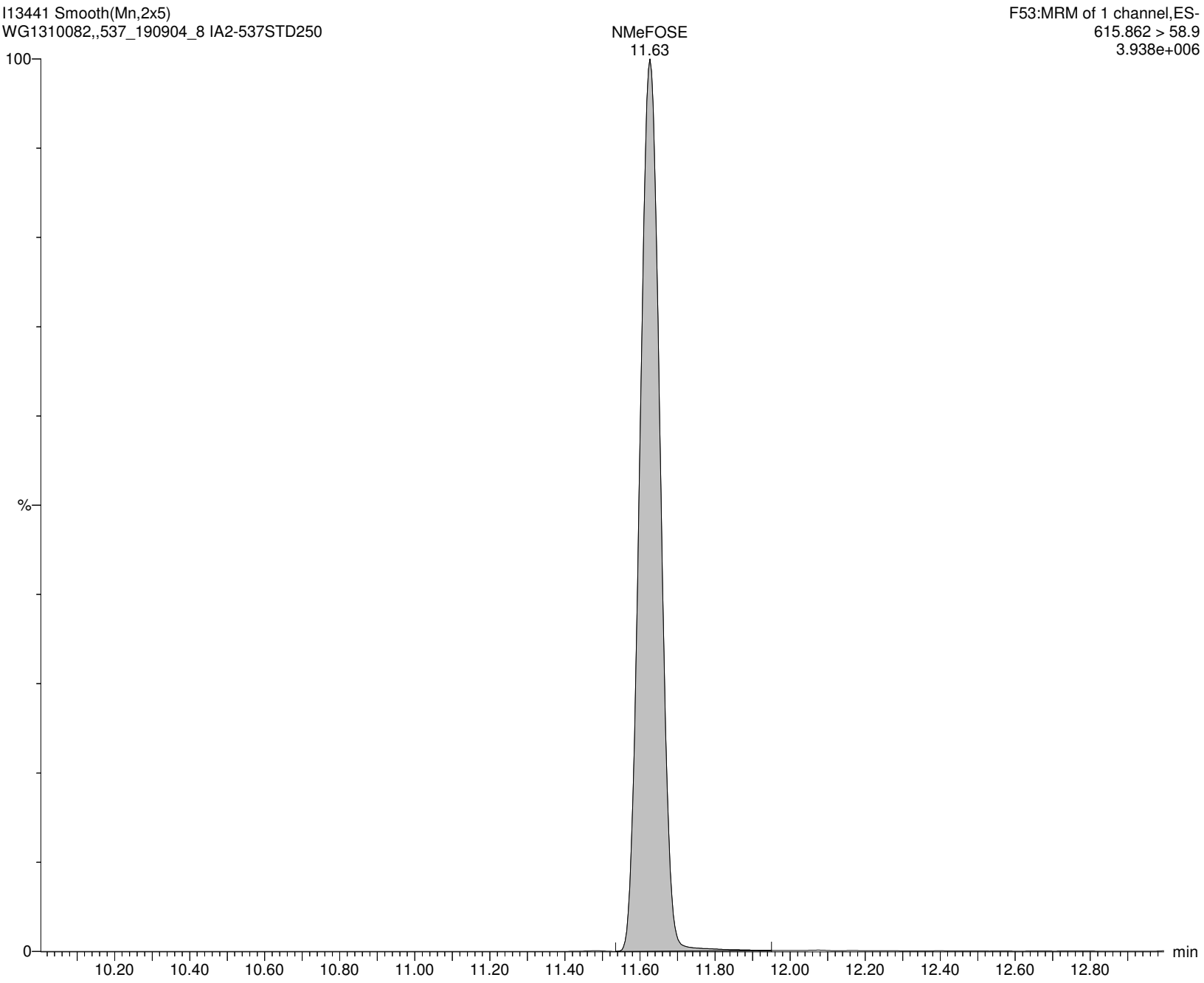

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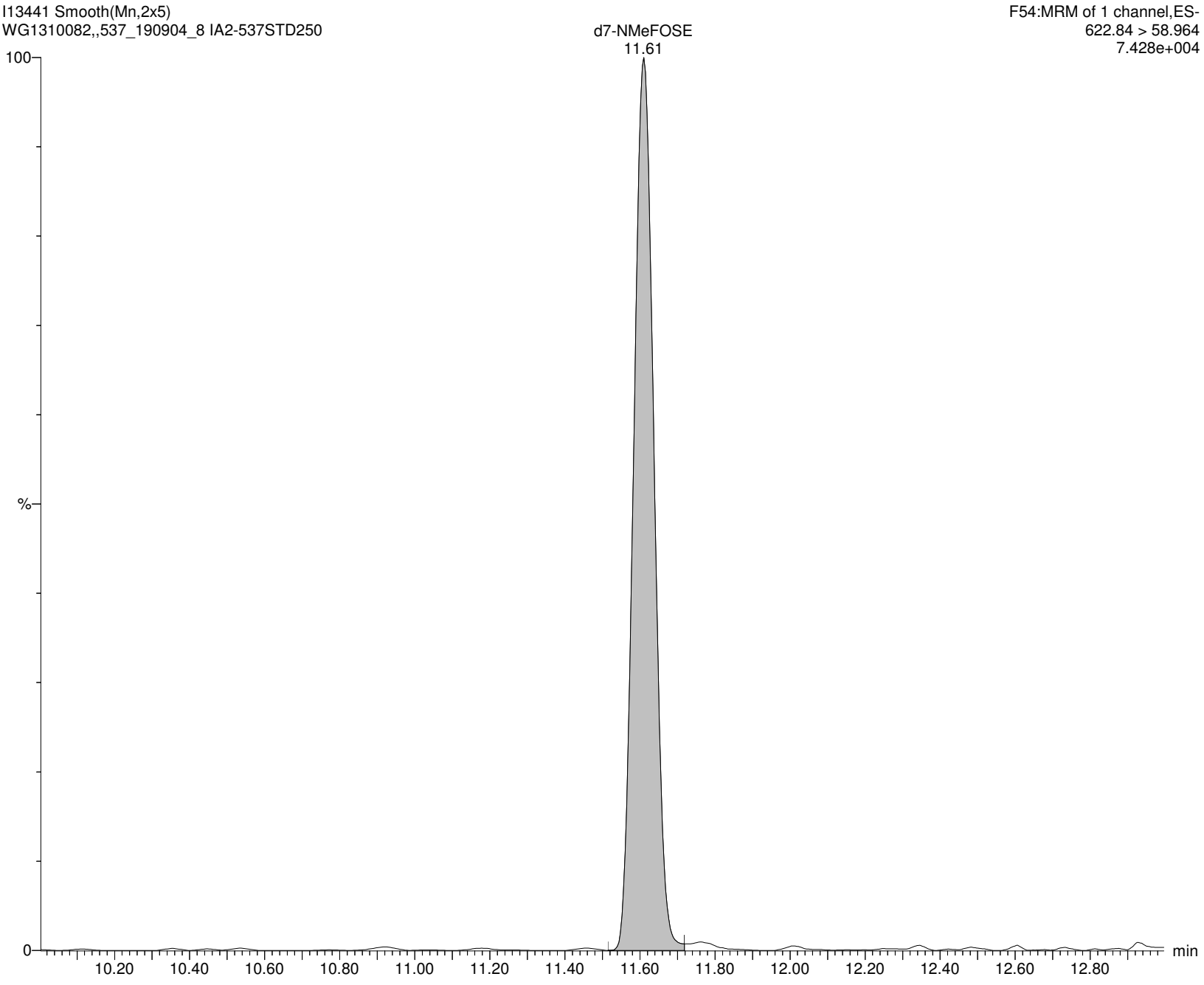

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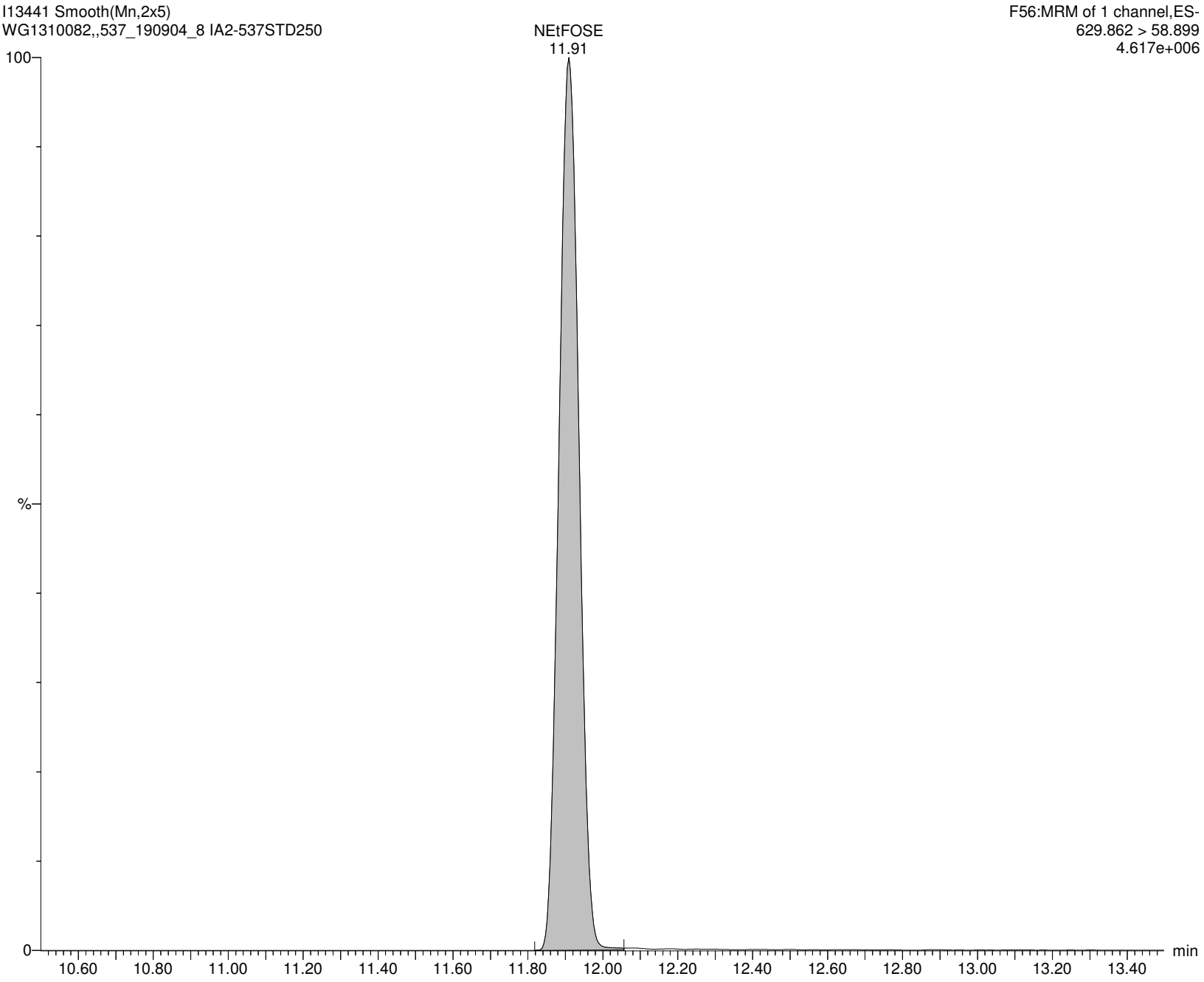
NEtFOSE



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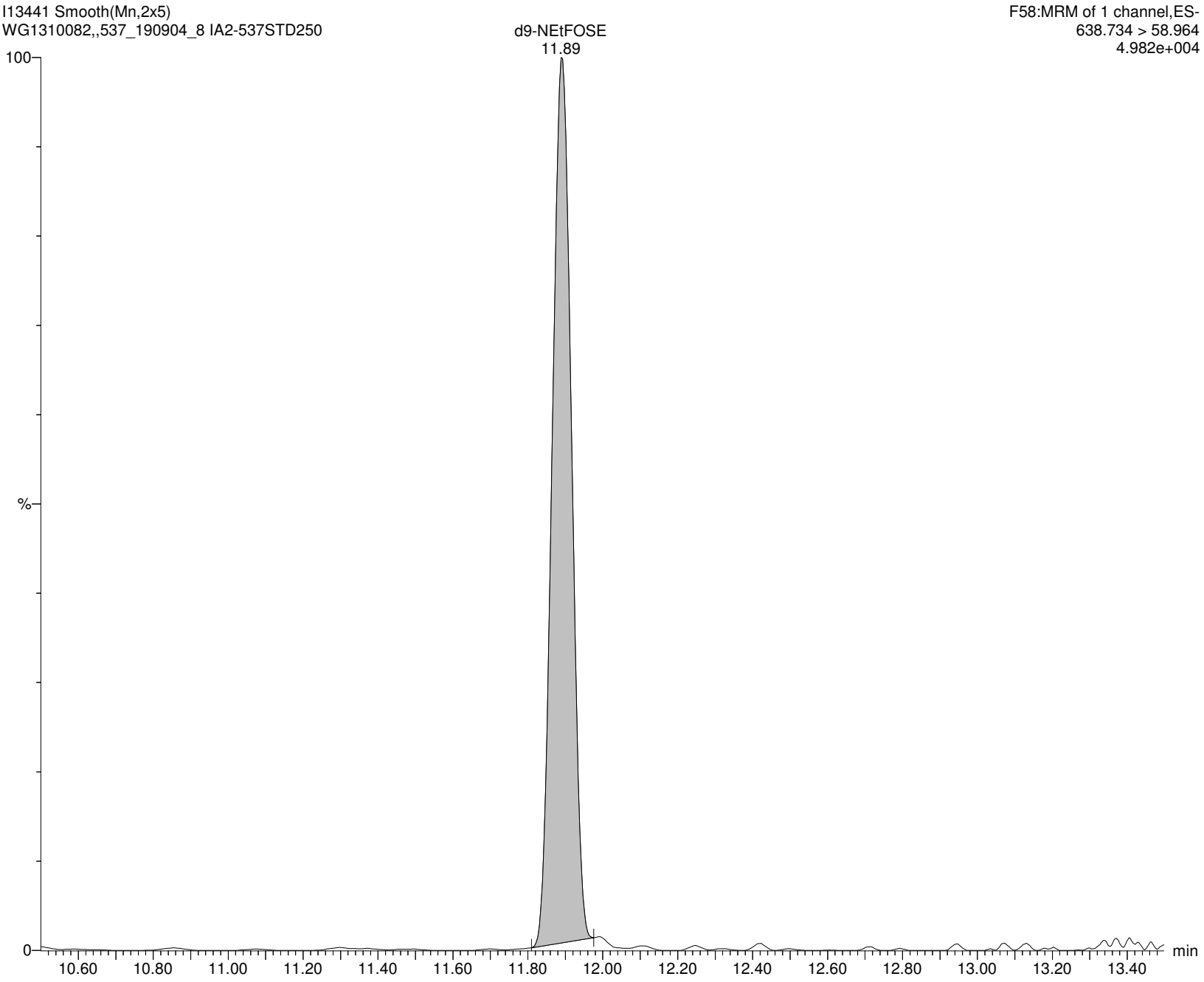
d9-NEtFOSE



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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:05 Eastern Standard Time

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Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: IA2-537STD500
Name: I13442
Date: 18-Nov-2019
Time: 12:49:53
Description: WG1310082,,537_190904_9
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	1988963		487.854		na	97.6
2	M3PFBA	INT STD	2.20	215.926 > 172.122	44687		9.644		na	96.4
3	MPFBA	INT STD	2.20	216.926 > 172.137	48827		10.040		na	100.4
4	PFPeA	2706-90-3	5.09	262.926 > 219.002	3063172		489.018		na	97.8
5	M5PFPEA	INT STD	5.09	267.989 > 223.081	64857		9.403		na	94.0
6	PFBS	375-73-5	5.73	298.926 > 79.923	533040		432.126	1.90	NO	97.7
7	M3PFBS	INT STD	5.74	301.989 > 80.254	8396		11.367		na	113.7
8	4:2FTS	757124-72-4	6.91	326.926 > 306.957	268378		ND	2.19	NO	
9	M2-4:2FTS	INT STD	6.91	329.117 > 309.079	16746		34.921		na	349.2
10	PFHxA	307-24-4	6.98	312.989 > 269.028	3131820		491.234	18.32	NO	98.2
11	M5PFHxA	INT STD	6.98	317.989 > 273.045	69256		10.284		na	102.8
12	PFPeS	2706-91-4	7.28	348.926 > 80.251	317015		478.701	1.78	NO	101.9
13	PFHpA	375-85-9	8.25	362.926 > 319.014	3907236		485.746	5.80	NO	97.1
14	M4PFHpA	INT STD	8.25	366.926 > 321.979	89172		9.941		na	99.4
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	60734	M5	84.444	2.29	NO	99.3
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	184133		371.225	1.18	NO	100.3
17	PFHxS	355-46-4		398.926 > 80.295	244868		455.669		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	3960		9.289		na	92.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	3792058		485.579	9.98	NO	97.1
21	PFOA	335-67-1		412.989 > 368.9	3792058		485.579		na	
22	M8PFOA	INT STD	9.20	420.989 > 375.979	85048		9.880		na	98.8
23	M2PFOA	INT STD	9.19	415.032 > 369.968	87972		8.322		na	83.2
24	6:2FTS	27619-97-2	9.15	426.989 > 406.921	196701		ND	9.82	NO	
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	16173		34.510		na	345.1
26	PFHpS	375-92-8	9.29	448.926 > 80.257	167010		448.266	0.84	NO	94.4
27	PFNA	375-95-1	9.95	462.989 > 418.931	3262202		485.252	4.54	NO	97.1
28	M9PFNA	INT STD	9.95	472.053 > 426.947	82061		9.689		na	96.9
29	br-PFOS	1763-23-1	9.81	498.989 > 80.294	99553	M5	99.112	4.46	NO	99.1
30	L-PFOS	1763-23-1	10.00	498.989 > 80.294	193598		348.655	1.51	YES	95.5
31	PFOS	1763-23-1		498.989 > 80.294	293151		447.767		na	
32	M4PFOS	INT STD	10.00	503.032 > 80.306	5277		7.555		na	75.6
33	M8PFOS	INT STD	10.00	507.053 > 80.294	5658		10.450		na	104.5
34	PFDA	335-76-2	10.57	513.053 > 468.906	2803895		493.667	6.72	NO	98.7
35	M2PFDA	INT STD	10.57	515.053 > 469.934	66127		7.490		na	74.9
36	M6PFDA	INT STD	10.57	519.053 > 473.931	66210		9.688		na	96.9
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	122449		ND		na	
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	8146		29.628		na	296.3
39	PFNS	68259-12-1	10.61	548.989 > 80.249	212195		403.183	1.26	NO	84.0

all concentration units in (ng/mL)

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Name: I13442
Date: 18-Nov-2019
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Description: WG1310082,,537_190904_9
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.96	573.096 > 418.987	10688		13.732		na	137.3
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND	0.00	NO	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	463842		465.644	2.68	NO	93.1
43	NMeFOSAA	2355-31-9		570.053 > 418.917	463842		465.644		na	
44	PFUnA	2058-94-8	11.11	562.989 > 518.903	2591577		494.577	8.06	NO	98.9
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	54794		9.037		na	90.4
46	PFDS	335-77-3	11.13	598.926 > 80.314	148916		395.857	0.98	NO	82.0
47	FOSA	754-91-6	11.01	497.989 > 78.245	949921		495.235	125.07	NO	99.0
48	M8FOSA	INT STD	11.01	506.053 > 78.286	18052		11.172		na	111.7
49	d5-NEtFOSAA	INT STD	11.25	589.117 > 418.929	9097		13.230		na	132.3
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	417755		486.475	2.52	NO	97.3
52	NEtFOSAA	2991-50-6		583.989 > 418.927	417755		486.475		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	2884692		482.251	13.98	NO	96.5
54	MPFDOA	INT STD	11.59	614.989 > 569.92	70624		10.383		na	103.8
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	1976668		730.913	11.31	NO	146.2
56	PFTA	376-06-7	12.36	713.053 > 668.976	2216106		484.540	8.77	NO	96.9
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	57111		10.571		na	105.7
58	M3HFPO-DA	INT STD	7.37	331.989 > 286.995	15713		416.633		na	208.3
59	HFPO-DA	13252-13-6	7.37	284.819 > 169.094	1248450		9569.328	2.65	YES	95.7
60	ADONA	958445-44-8	8.43	376.926 > 251.005	5047635		451.460		na	95.4
61	PFHxDA		12.78	813.053 > 769.005	1578940		493.304		na	98.7
62	PFODA		12.98	912.989 > 869.032	1172349		495.065		na	99.0
63	M2PFHxDA		12.78	815.372 > 770.158	11692		10.167		na	101.7
64	PFDoS		11.99	698.649 > 79.853	148644		387.613	1.96	YES	77.5
65	10:2FTS		11.60	626.862 > 606.896	120841		ND		na	
66	9CL-PF3ONS		10.35	530.862 > 350.843	1621731		436.130		na	93.6
67	11CL-PFOUdS		11.39	630.862 > 450.854	1378542		439.759		na	93.4
68	NMeFOSA		11.63	511.804 > 168.906	381907		468.985	1.48	NO	93.8
69	d3-NMeFOSA		11.62	514.84 > 168.917	10957		13.002		na	130.0
70	NEtFOSA		11.92	525.84 > 168.92	425931		495.631	5.72	NO	99.1
71	d5-NEtFOSA		11.91	530.904 > 168.919	9808		11.899		na	119.0
72	NMeFOSE		11.63	615.862 > 58.9	415137		470.976		na	94.2
73	d7-NMeFOSE		11.61	622.84 > 58.964	4357		11.040		na	110.4
74	NEtFOSE		11.91	629.862 > 58.899	502557		408.793		na	81.8
75	d9-NEtFOSE		11.89	638.734 > 58.964	3114		13.495		na	135.0

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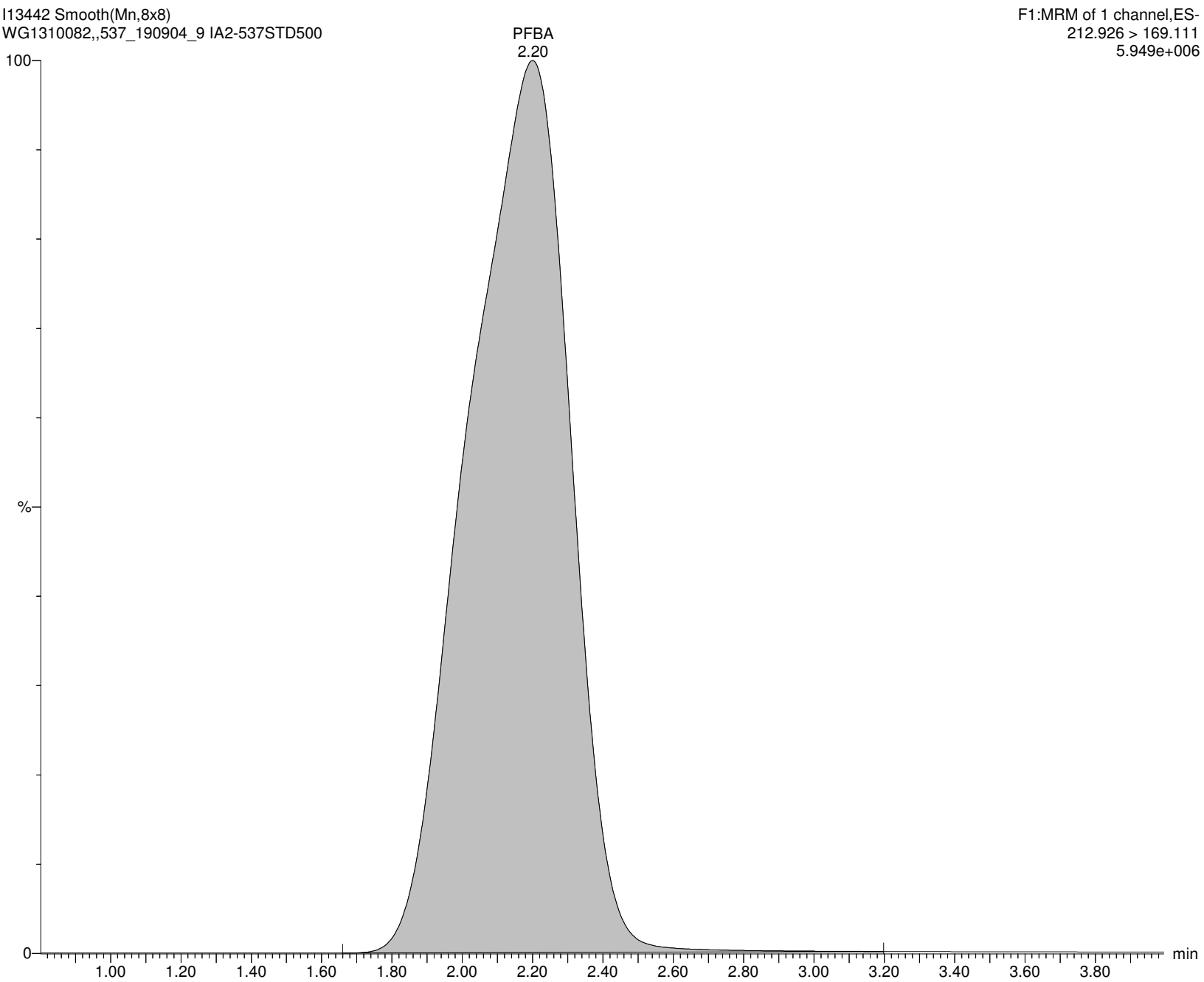

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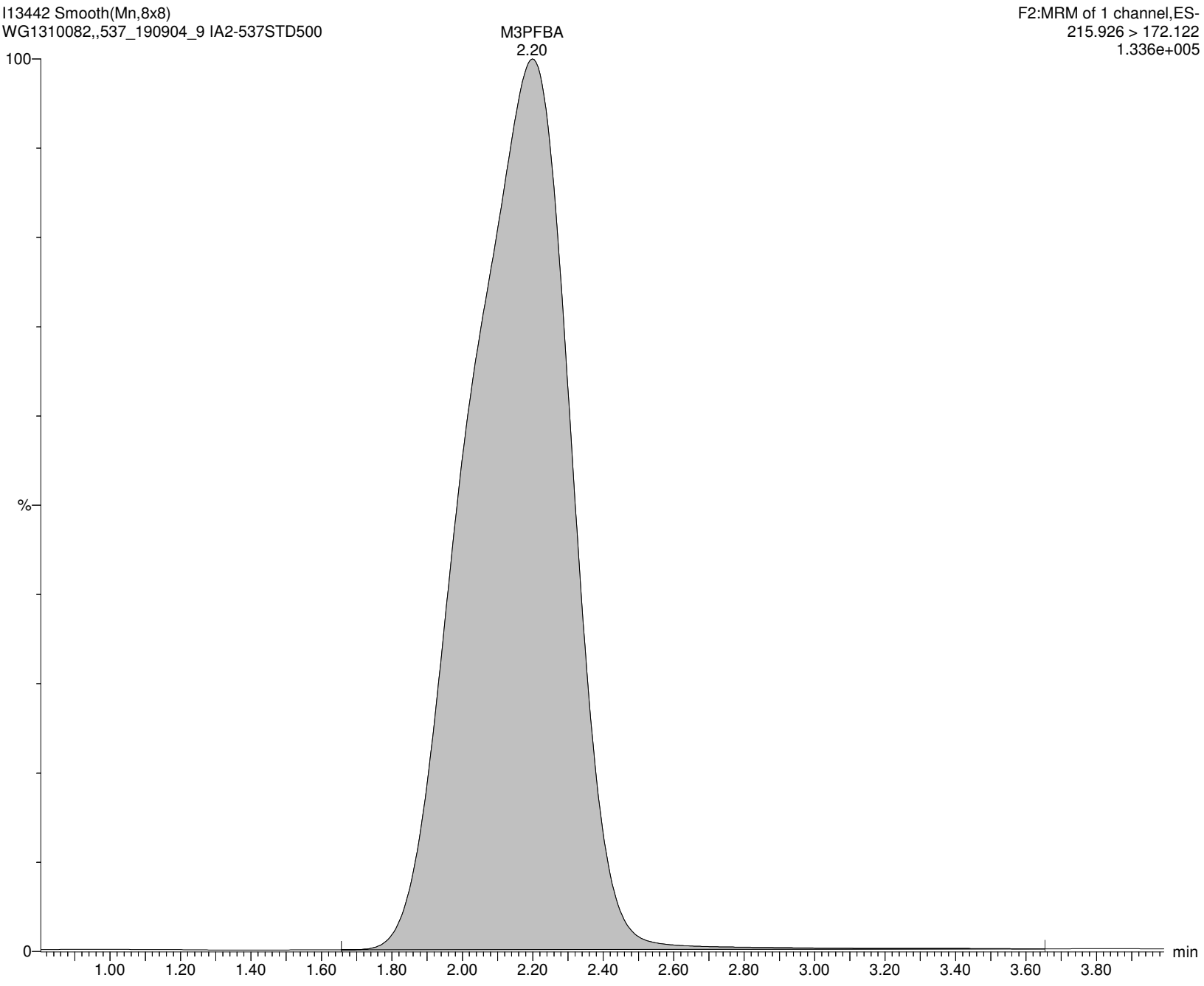
M3PFBA



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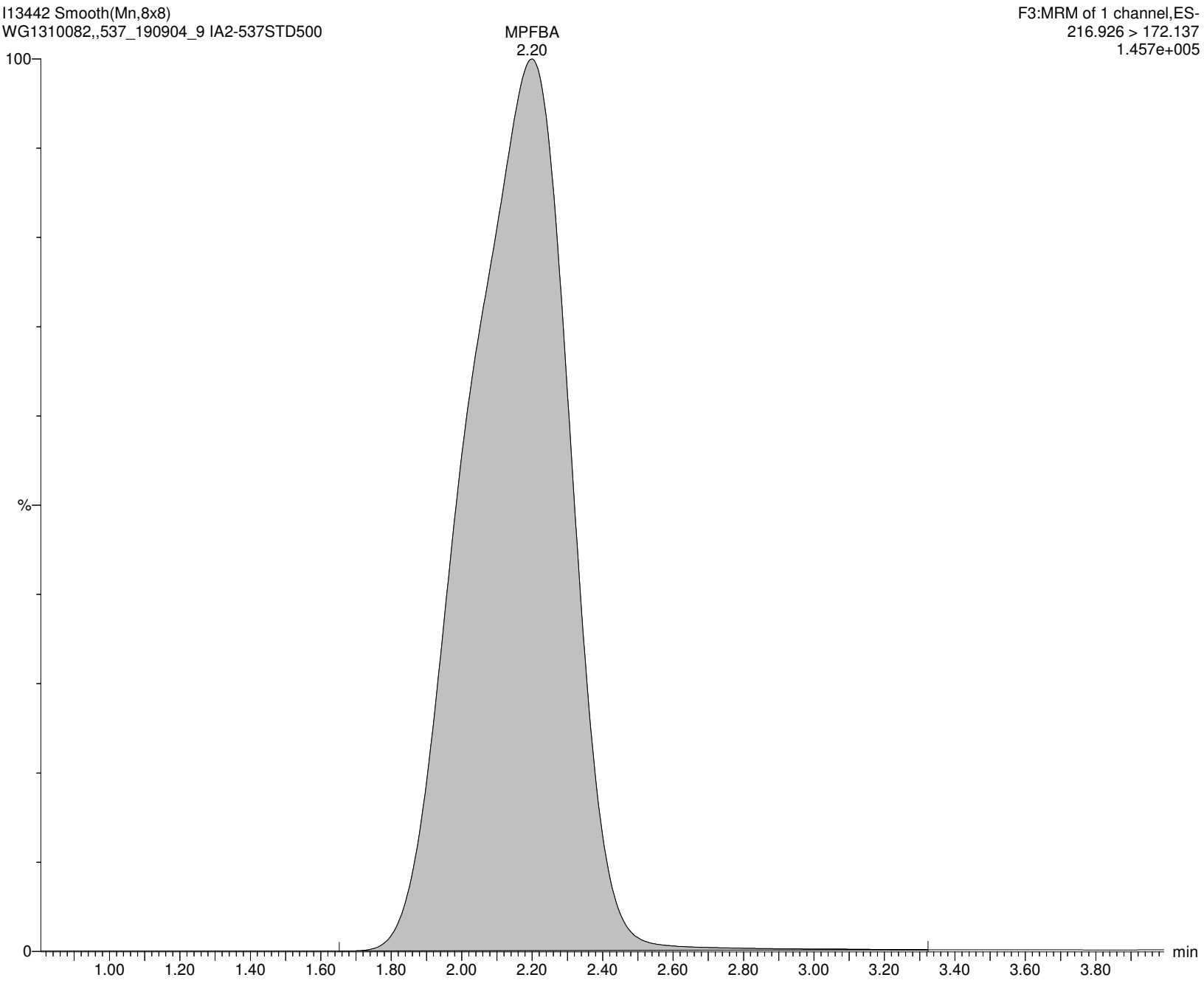

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:05 Eastern Standard Time

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ID: IA2-537STD500
Date: 18-Nov-2019
Time: 12:49:53
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User: LCMS02:JW
Vial: 1:B,2
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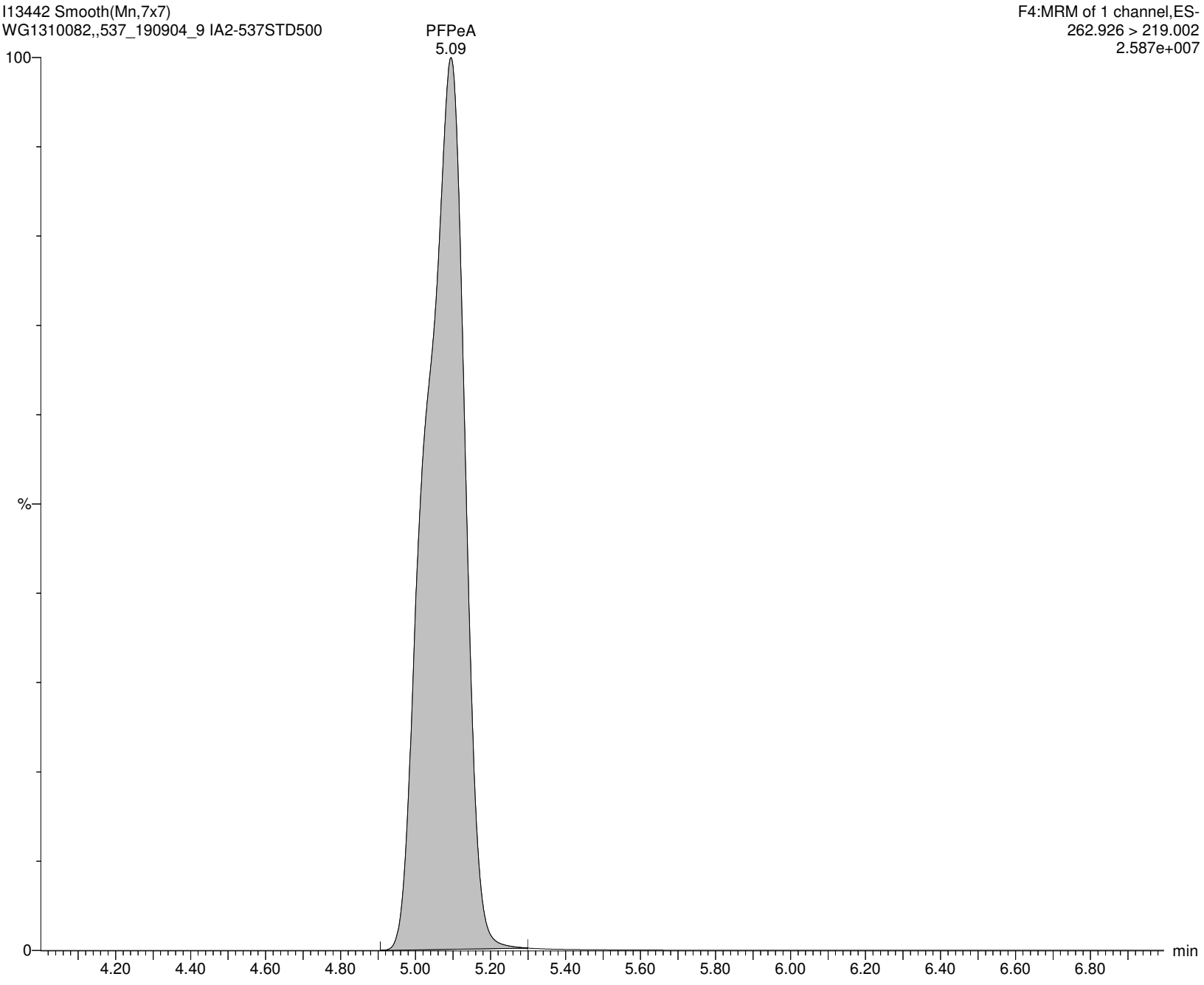

all concentration units in (ng/mL)

Alpha Analytical Inc.
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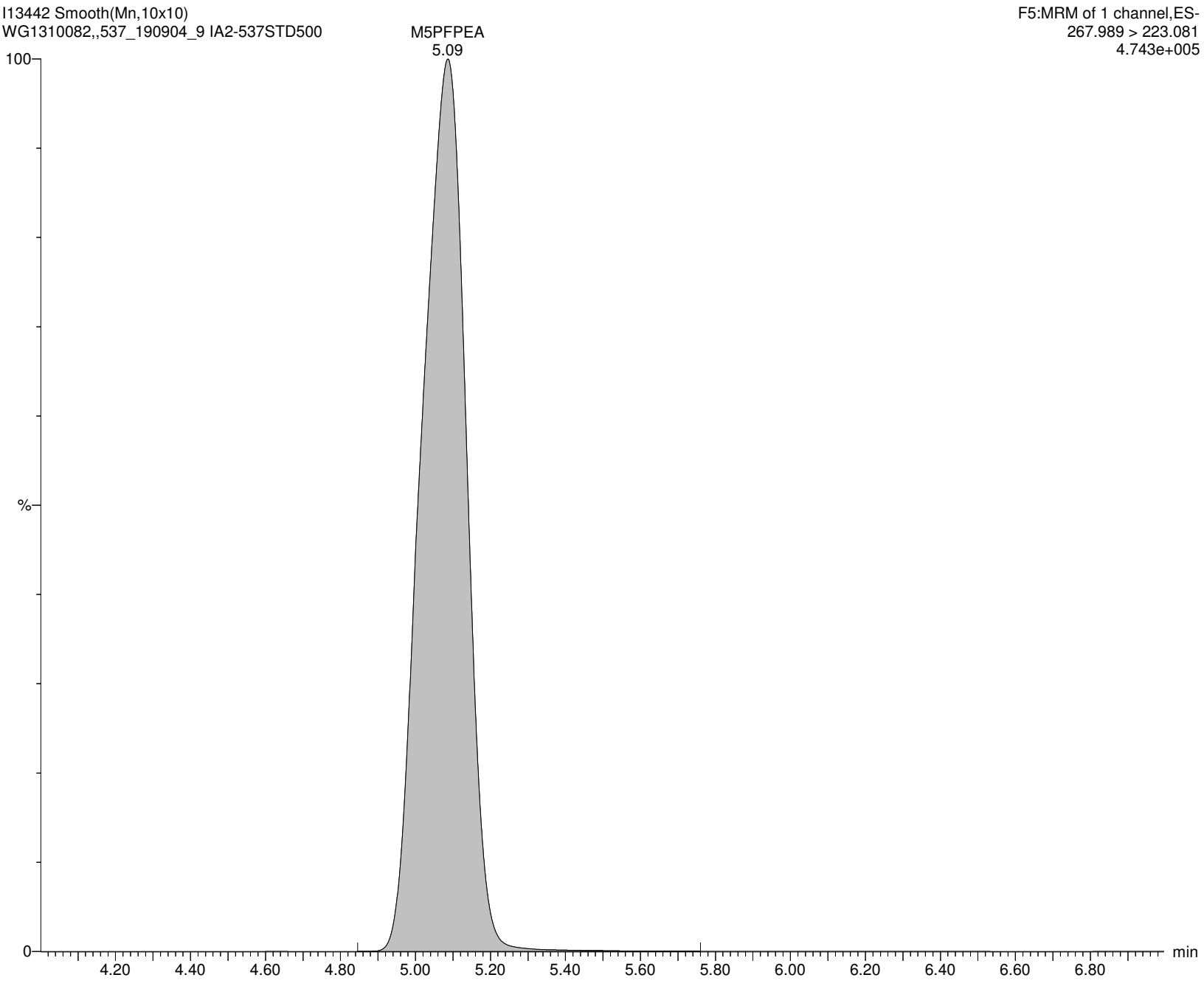

all concentration units in (ng/mL)

Alpha Analytical Inc.
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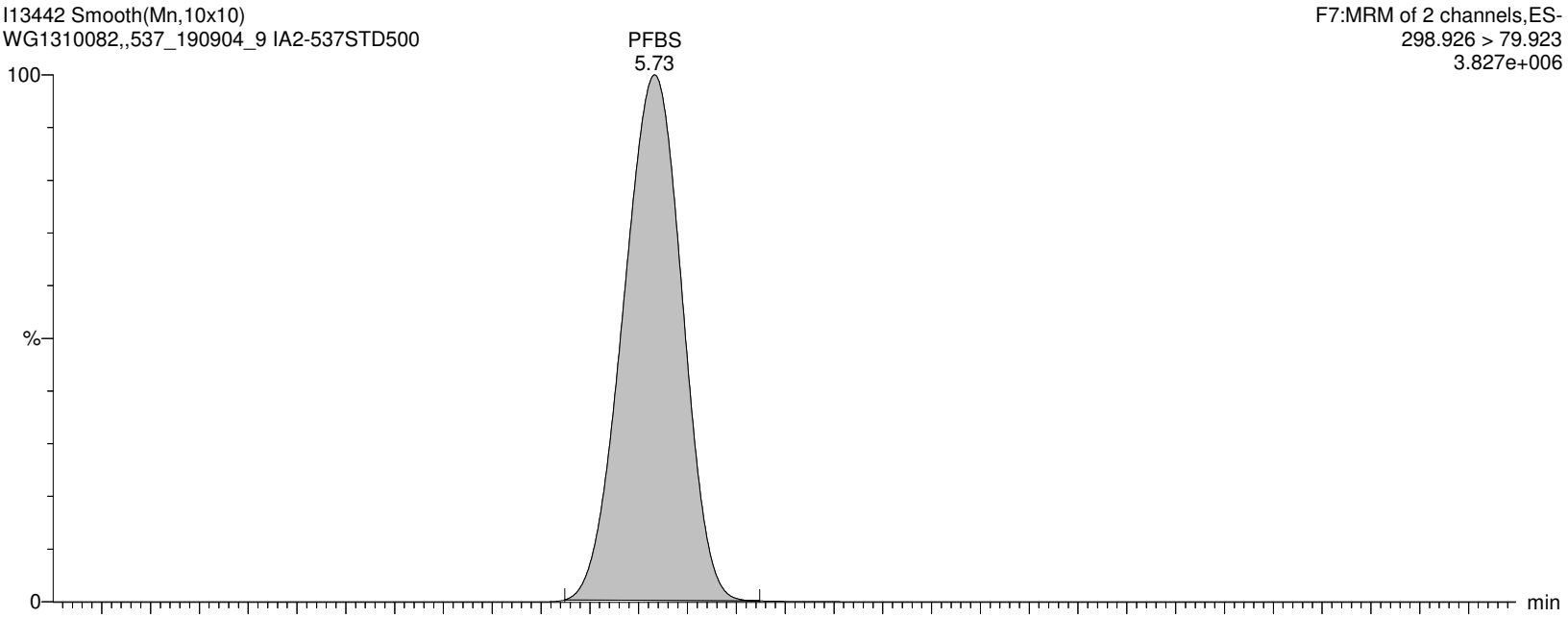

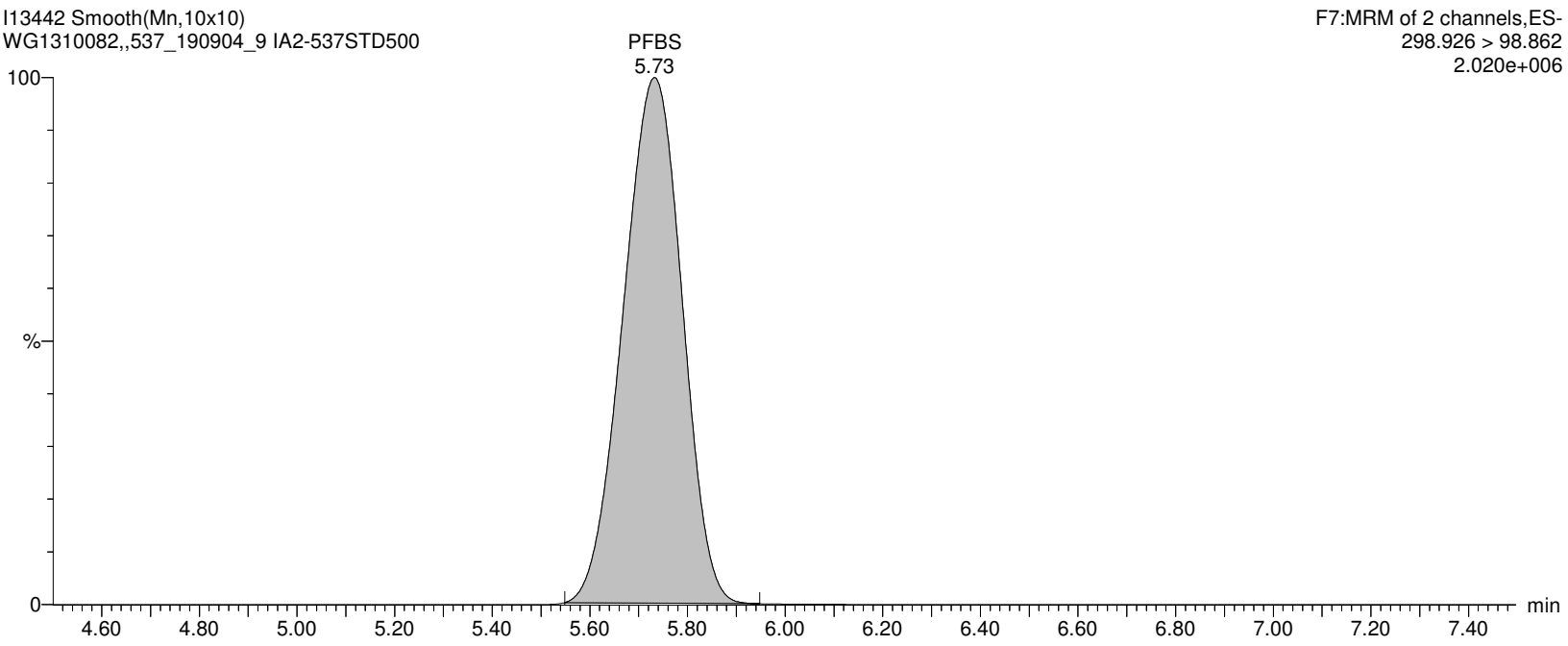

all concentration units in (ng/mL)

Alpha Analytical Inc.
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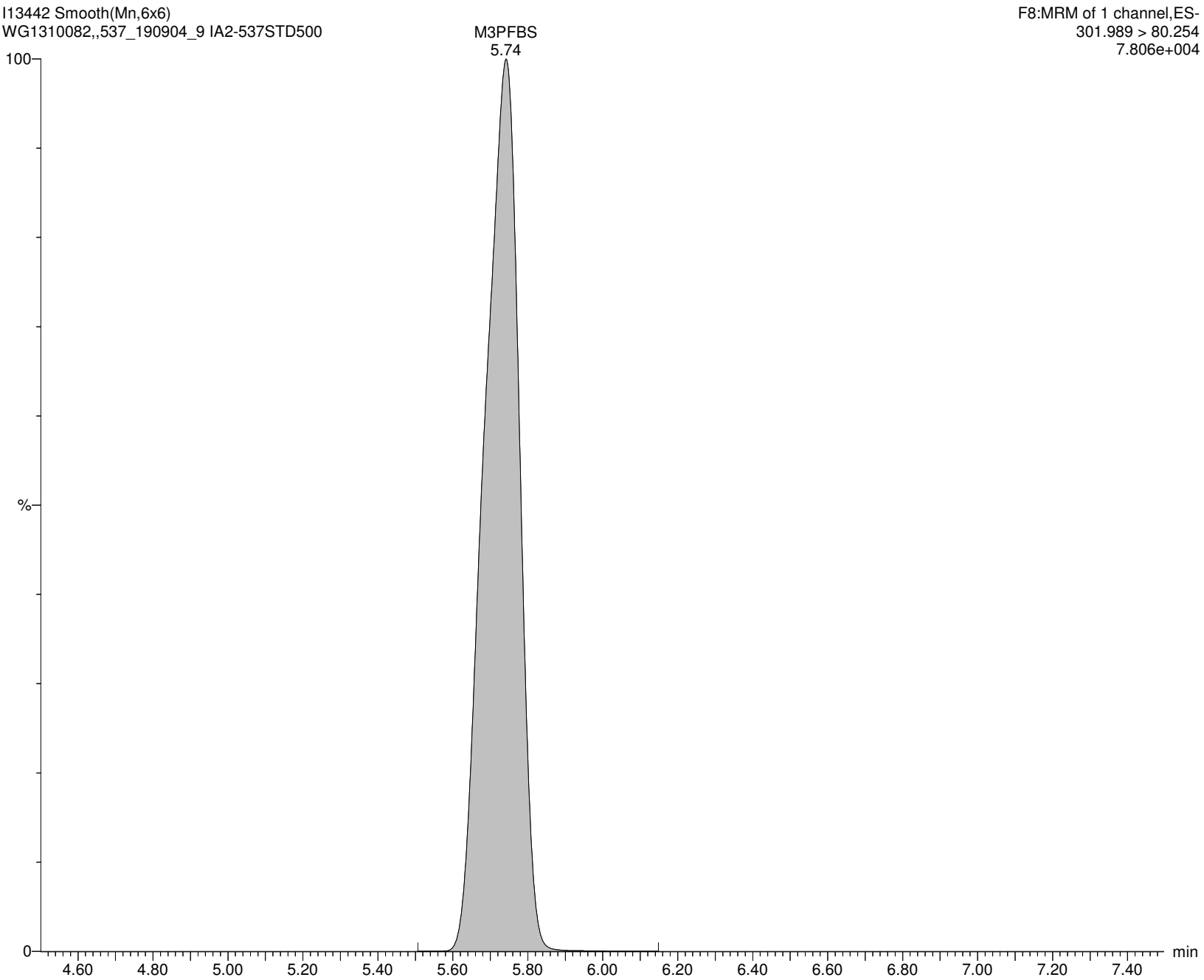

all concentration units in (ng/mL)

Alpha Analytical Inc.
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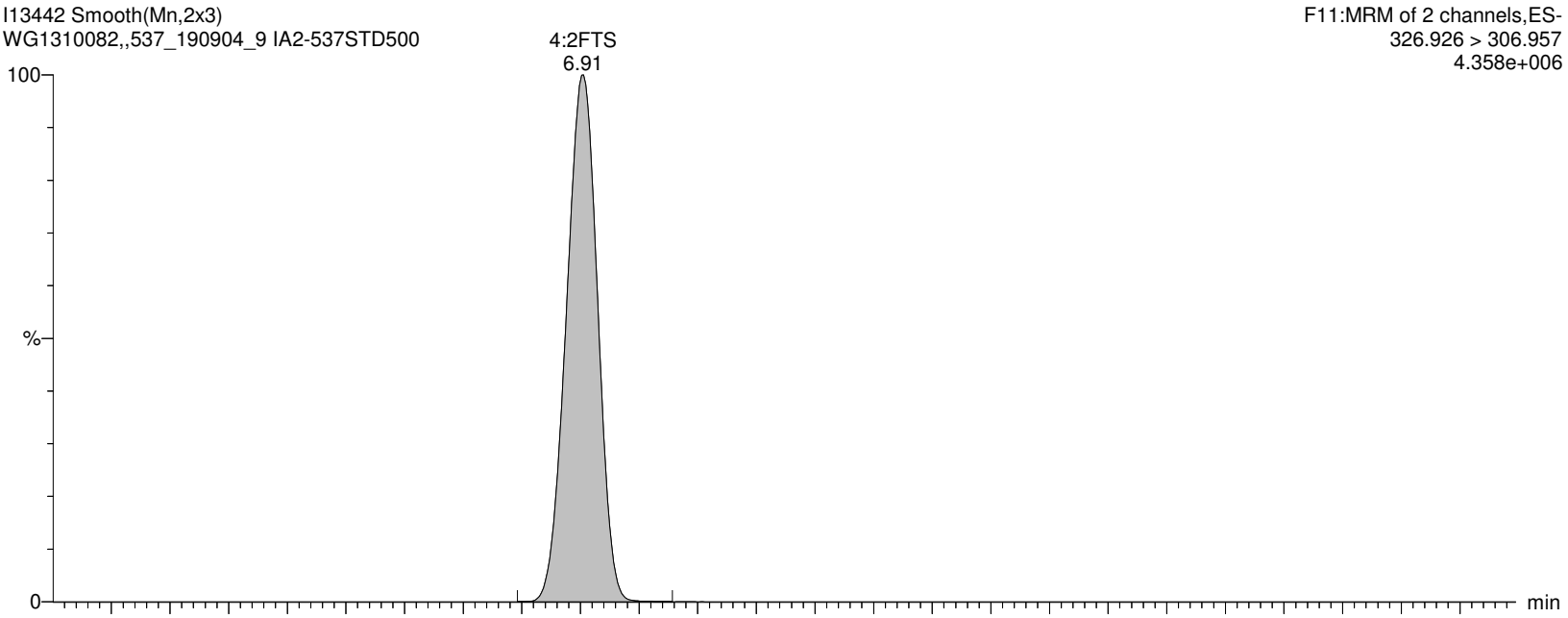
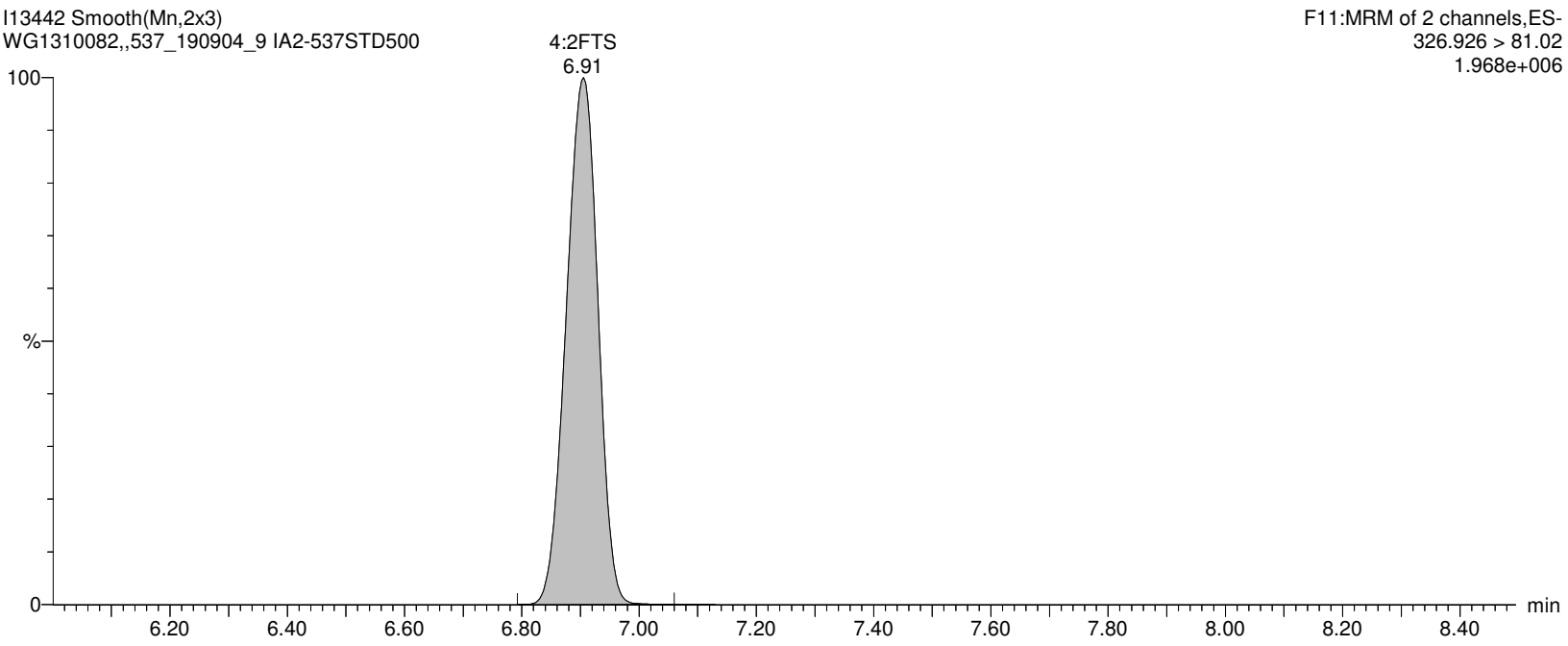
4:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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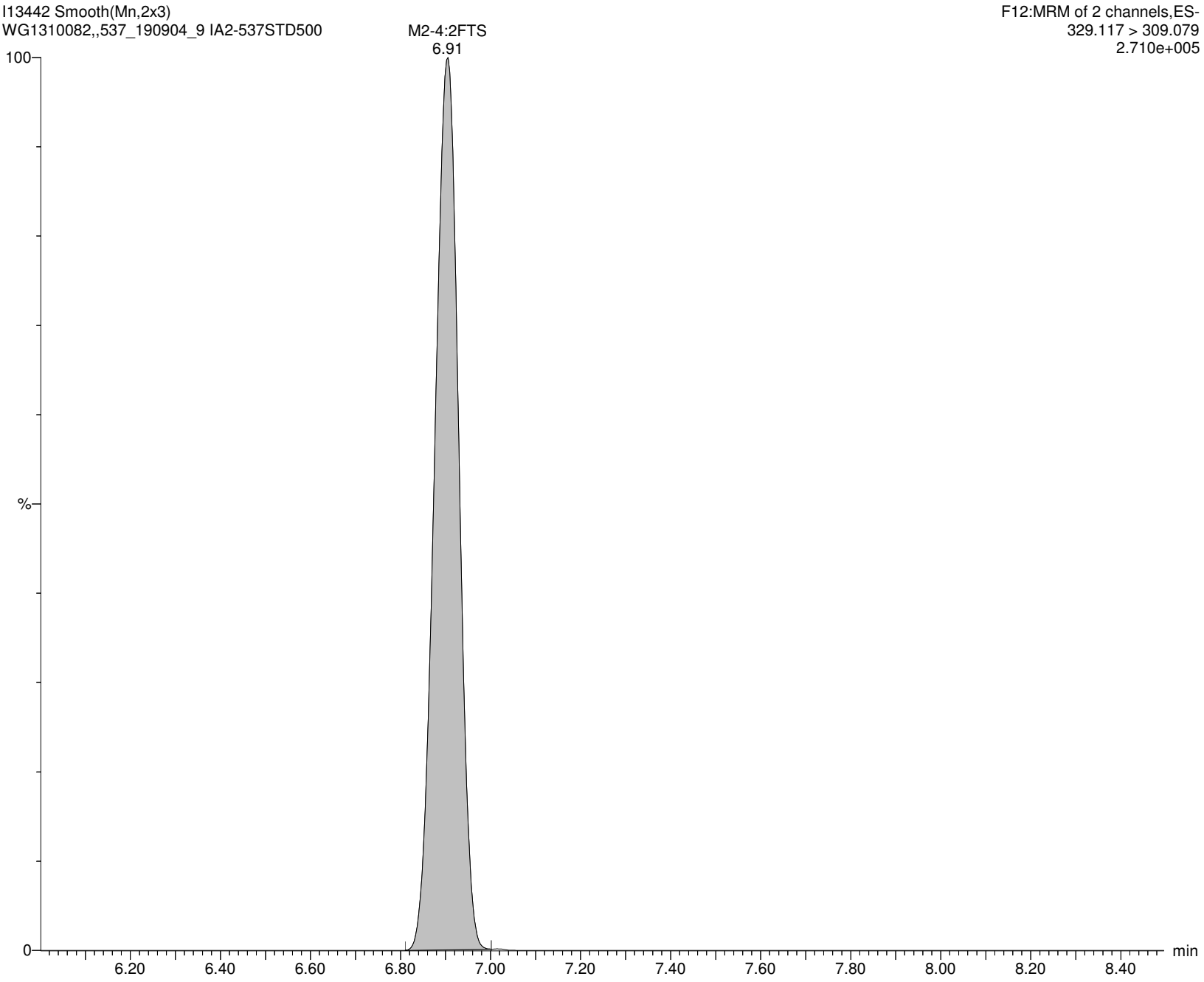

all concentration units in (ng/mL)

Alpha Analytical Inc.
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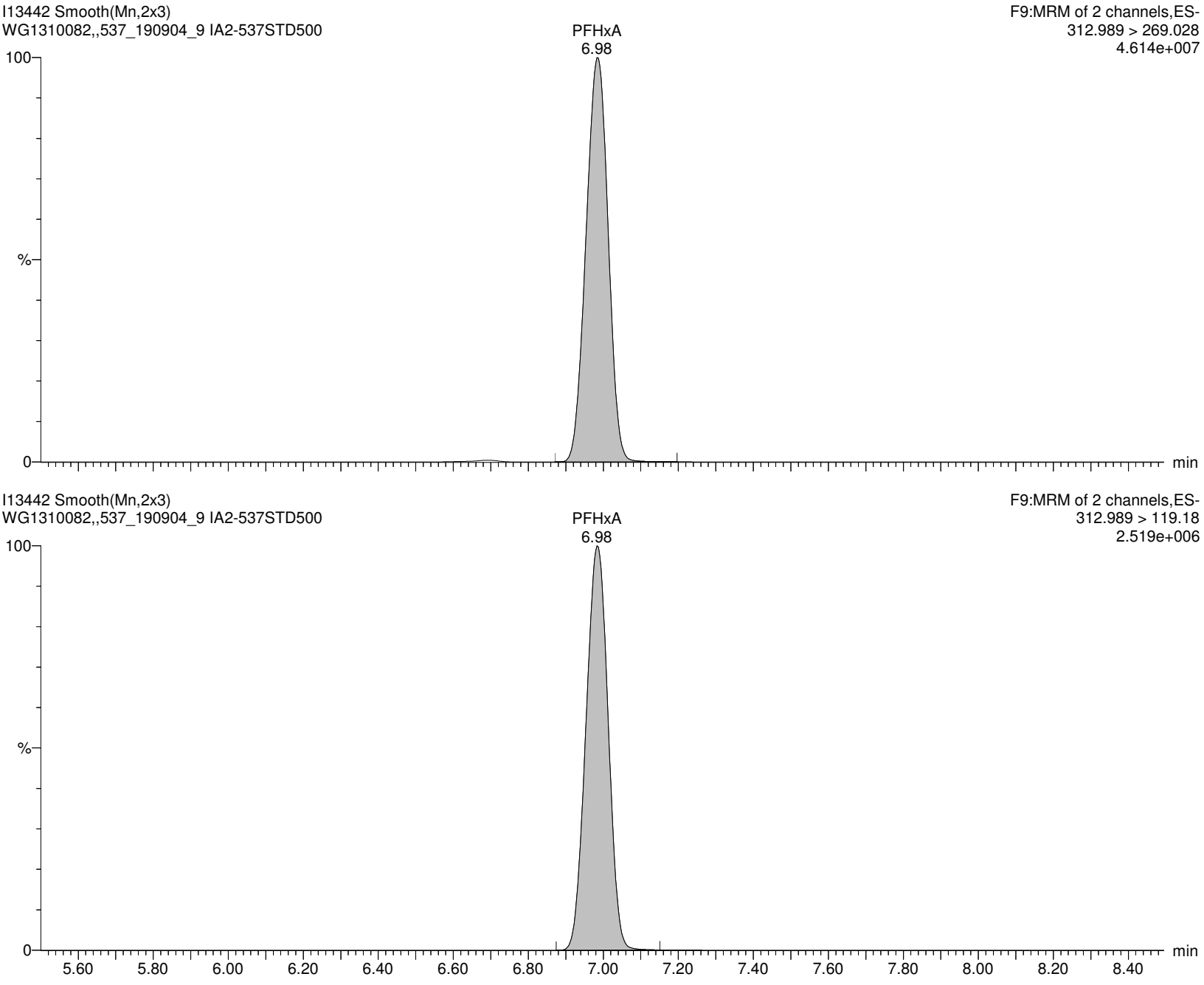
PFHxA



all concentration units in (ng/mL)

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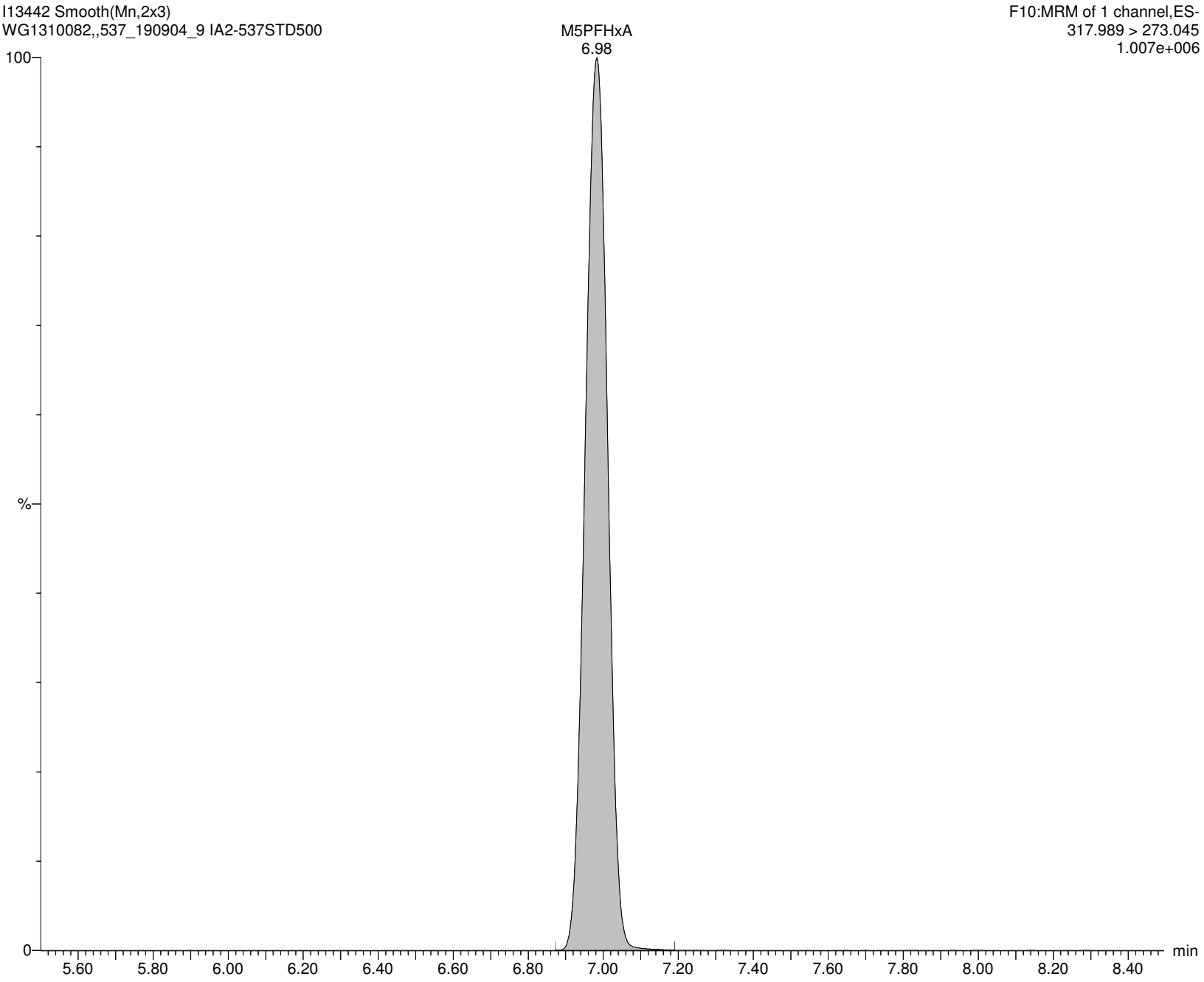

all concentration units in (ng/mL)

Alpha Analytical Inc.
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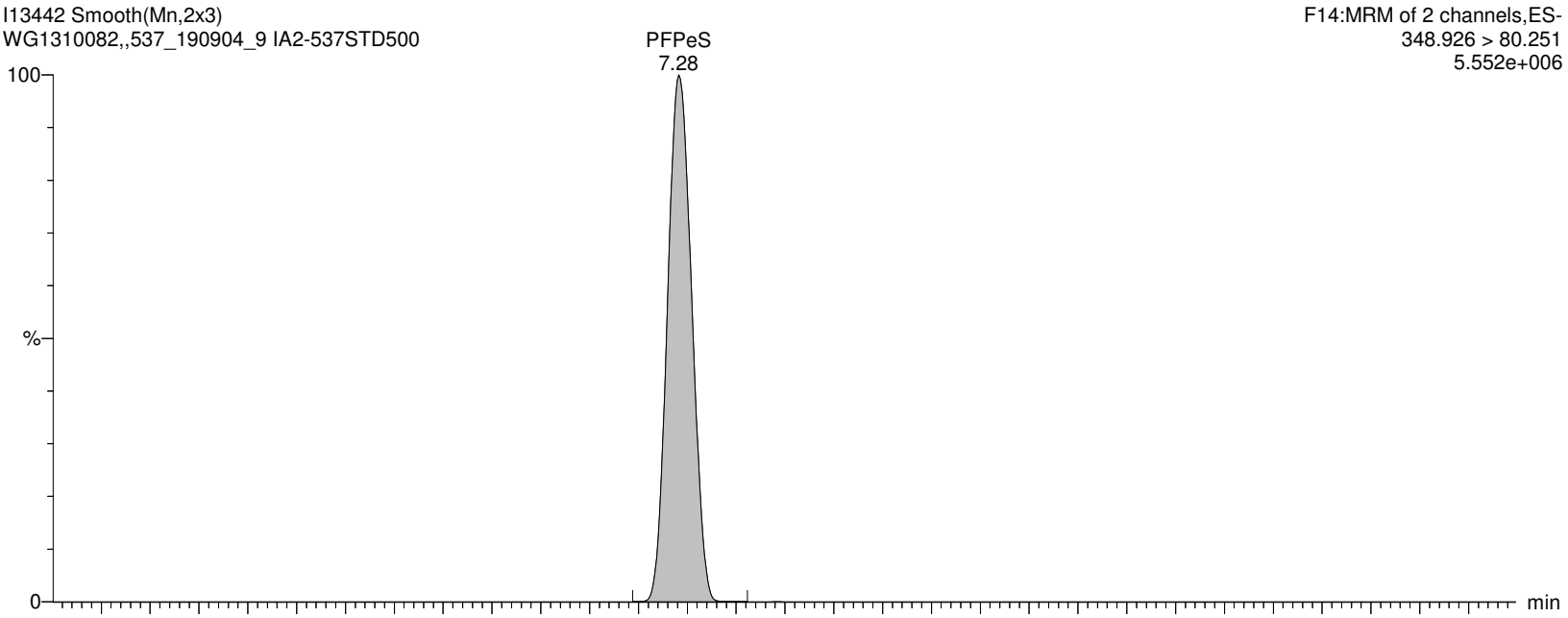

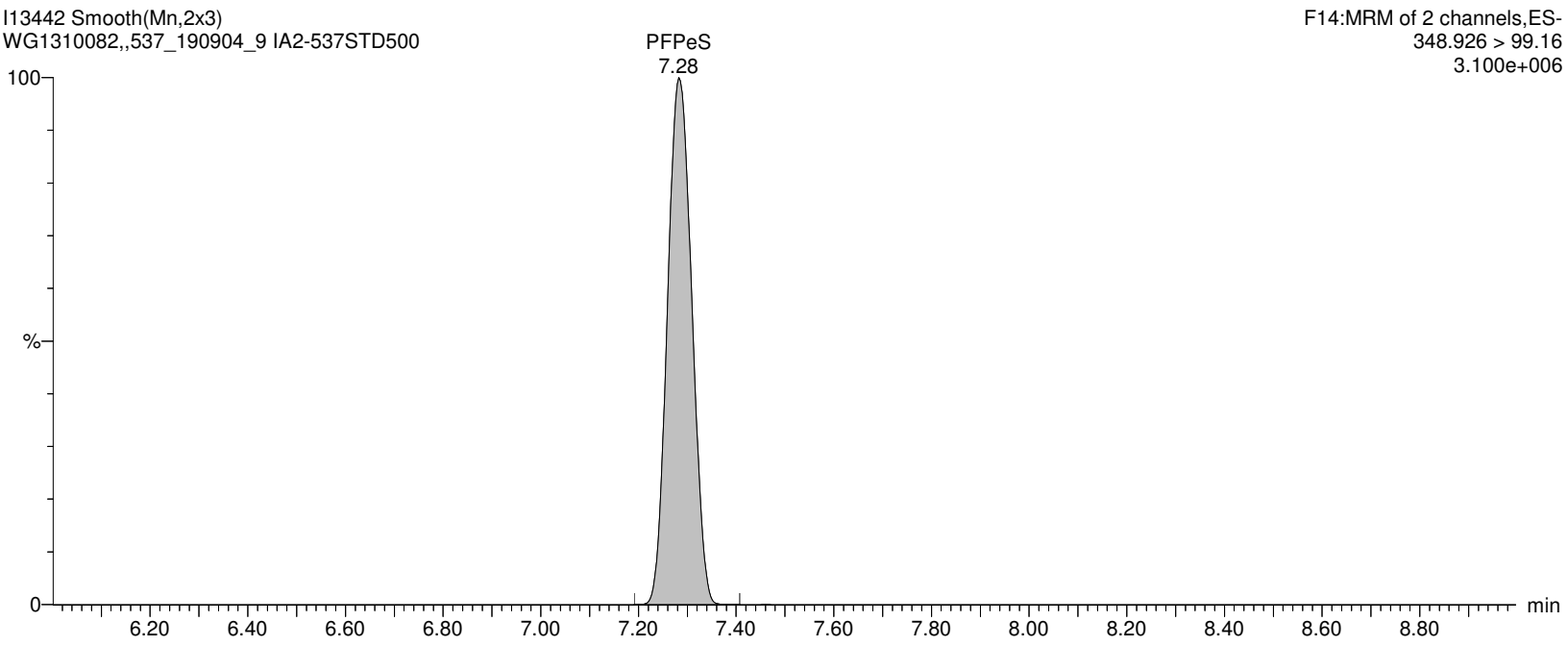

all concentration units in (ng/mL)

Alpha Analytical Inc.
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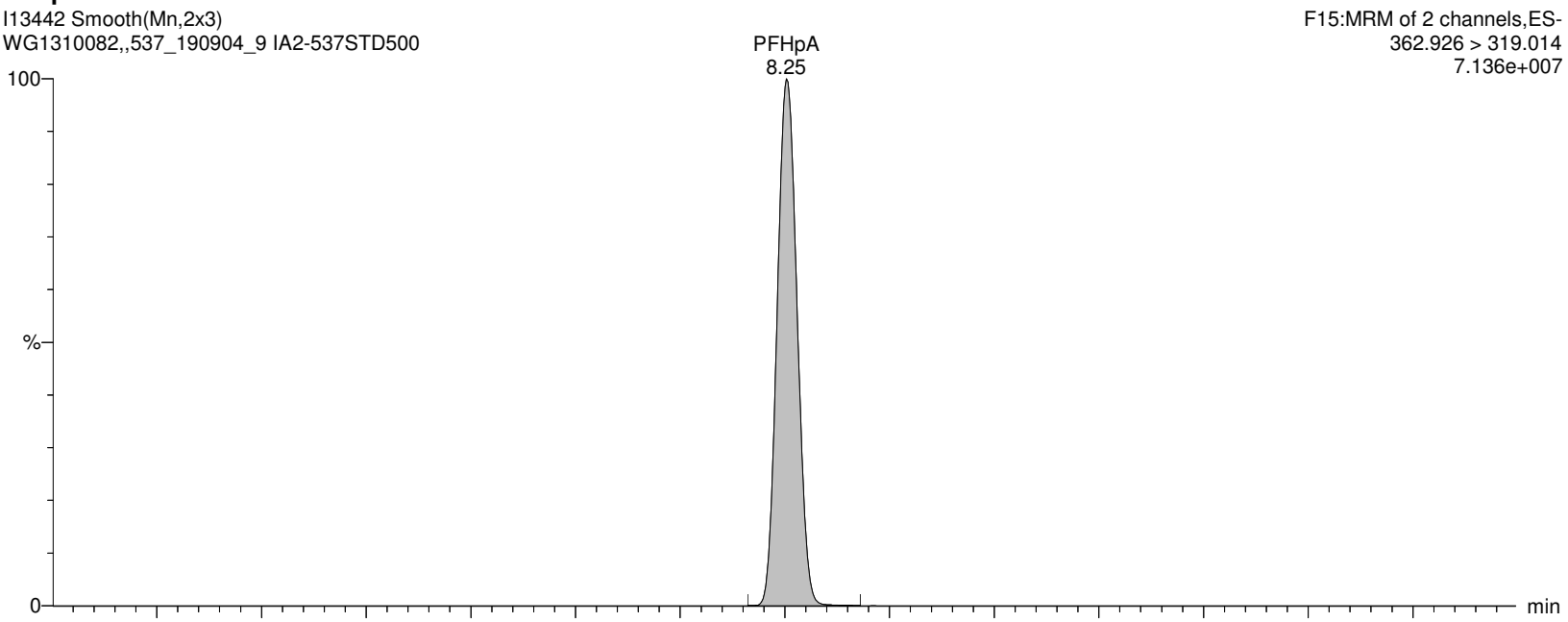

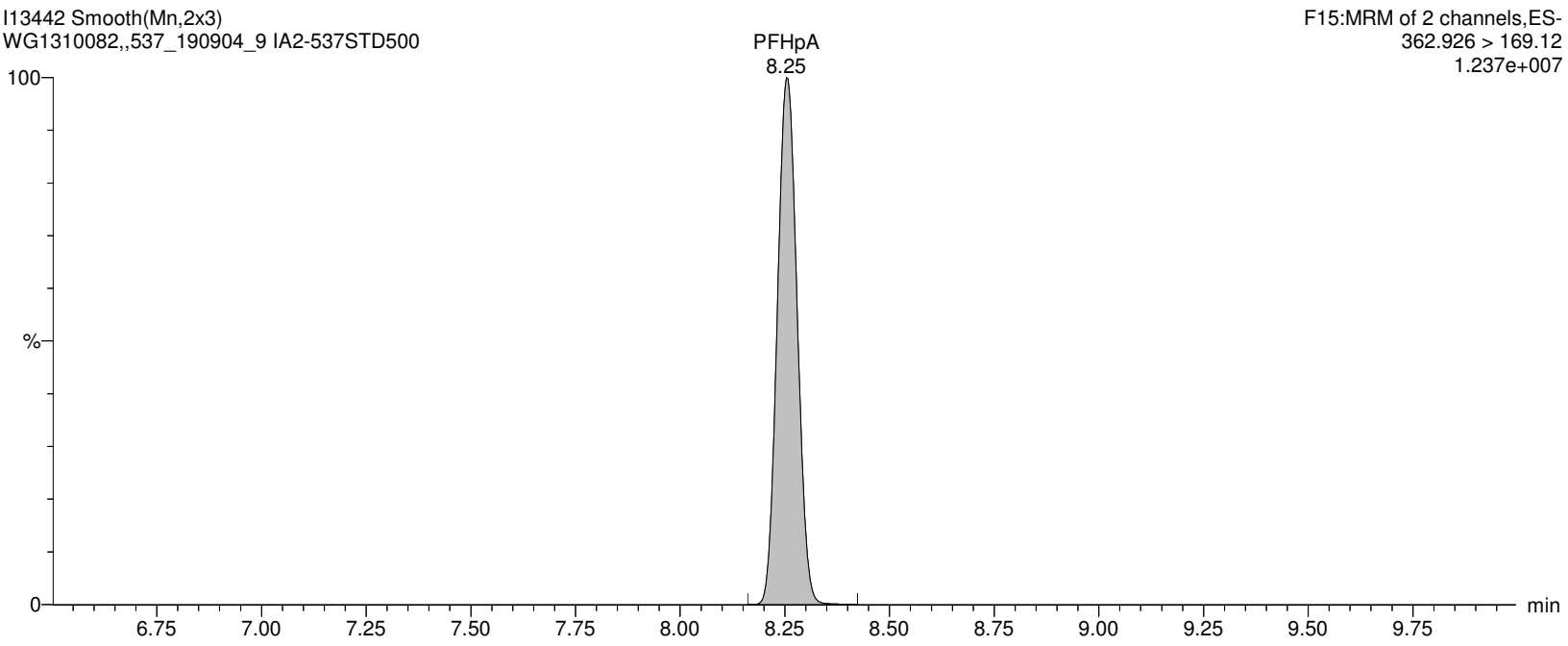

all concentration units in (ng/mL)

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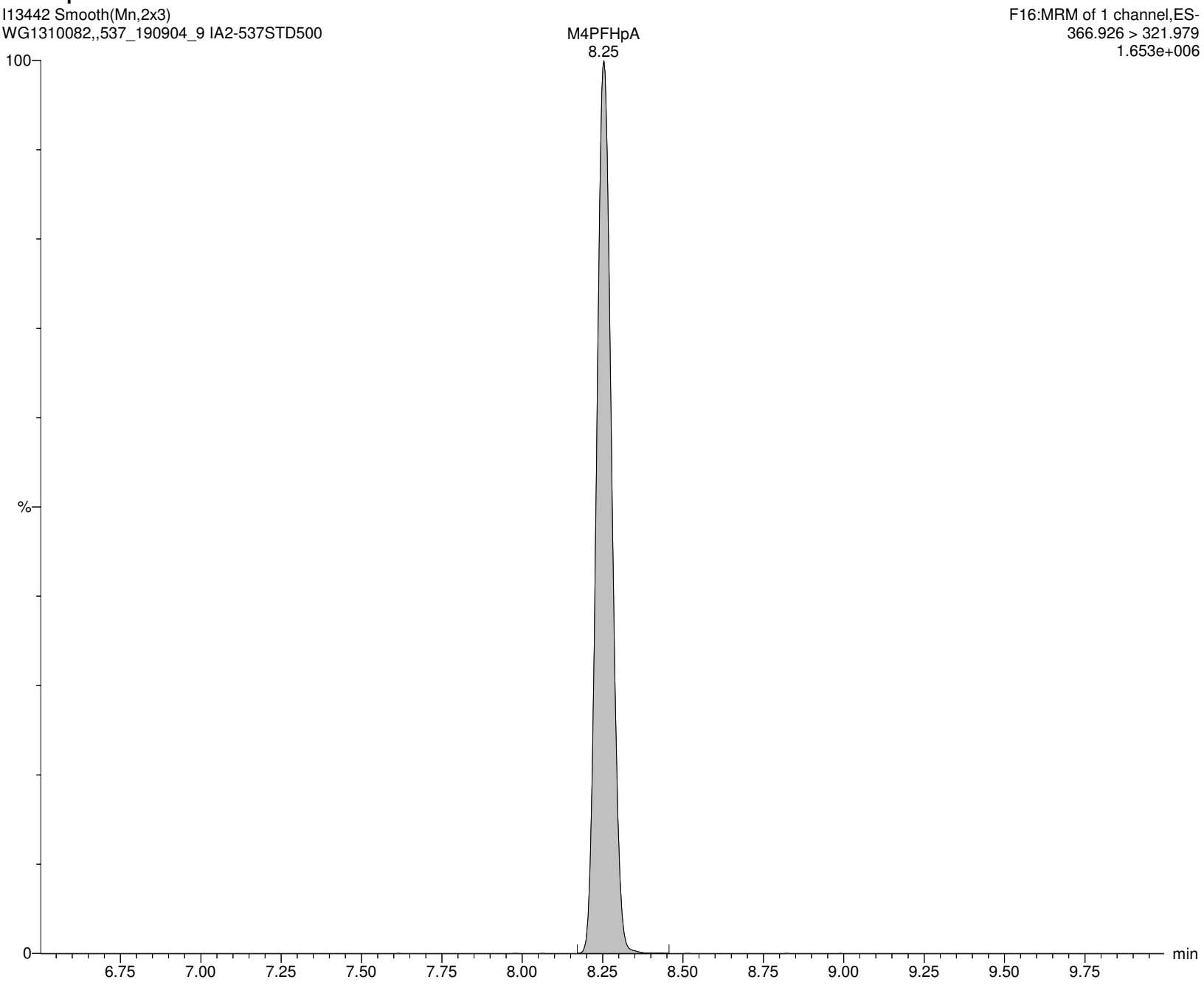

all concentration units in (ng/mL)

Alpha Analytical Inc.
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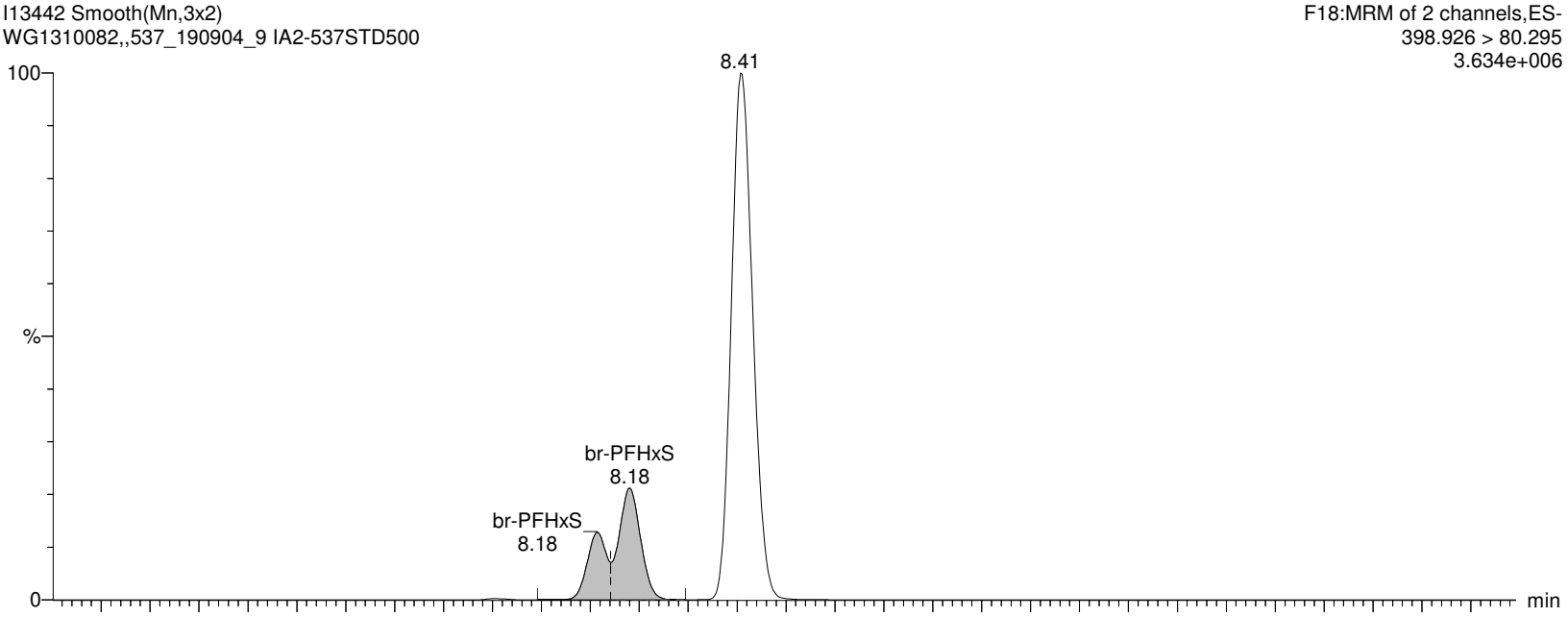

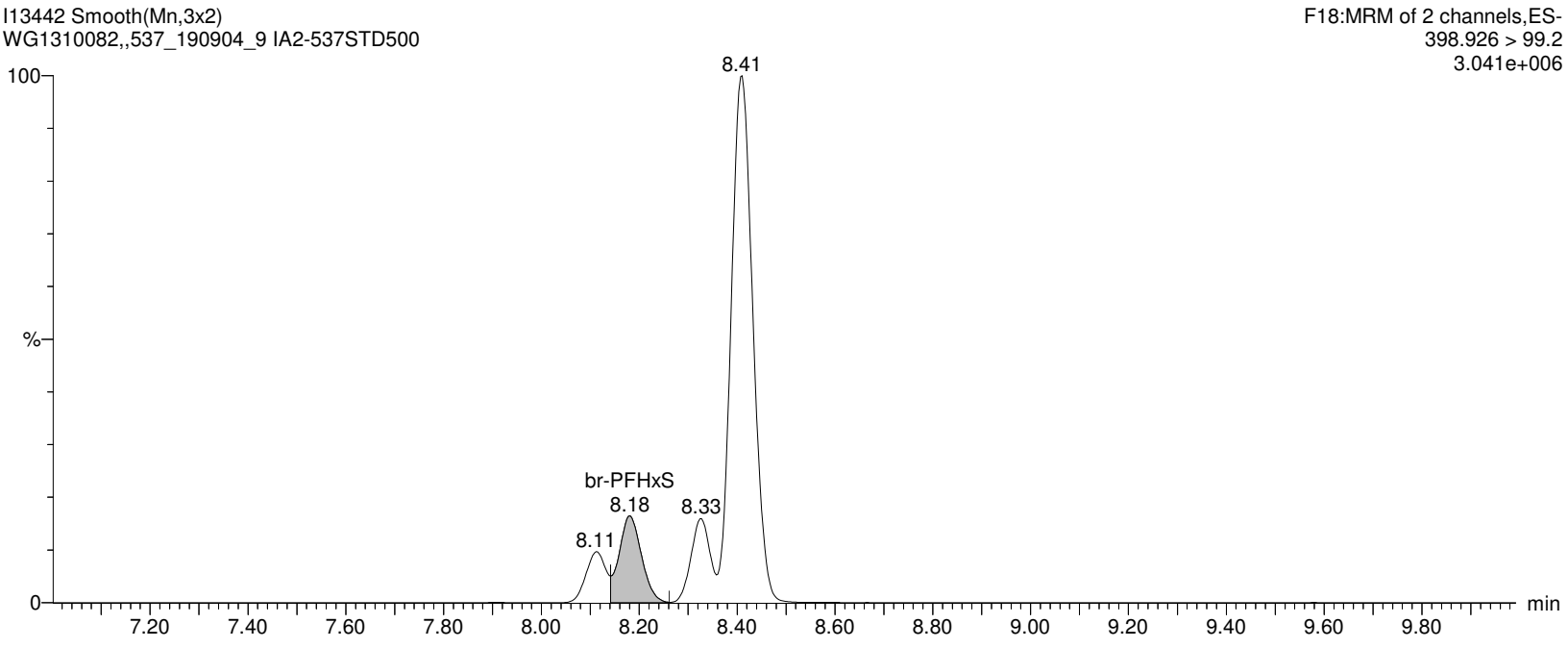

all concentration units in (ng/mL)

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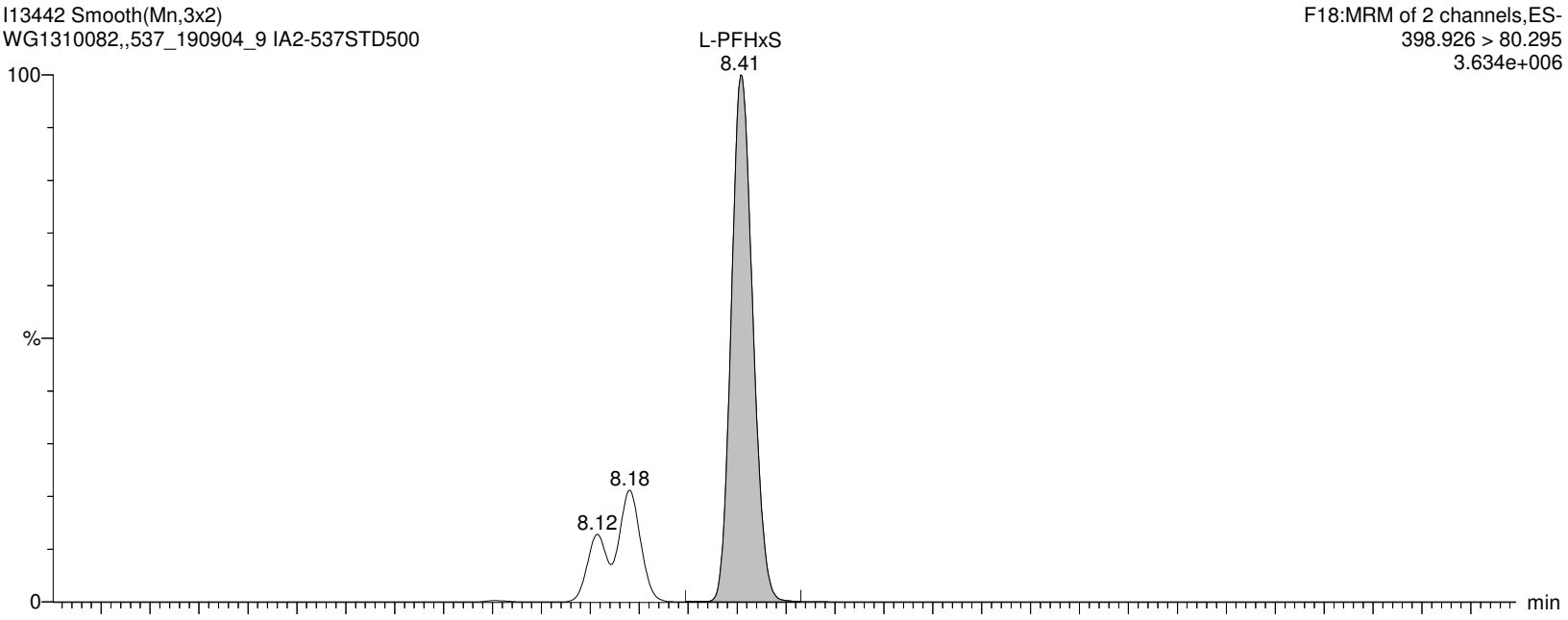

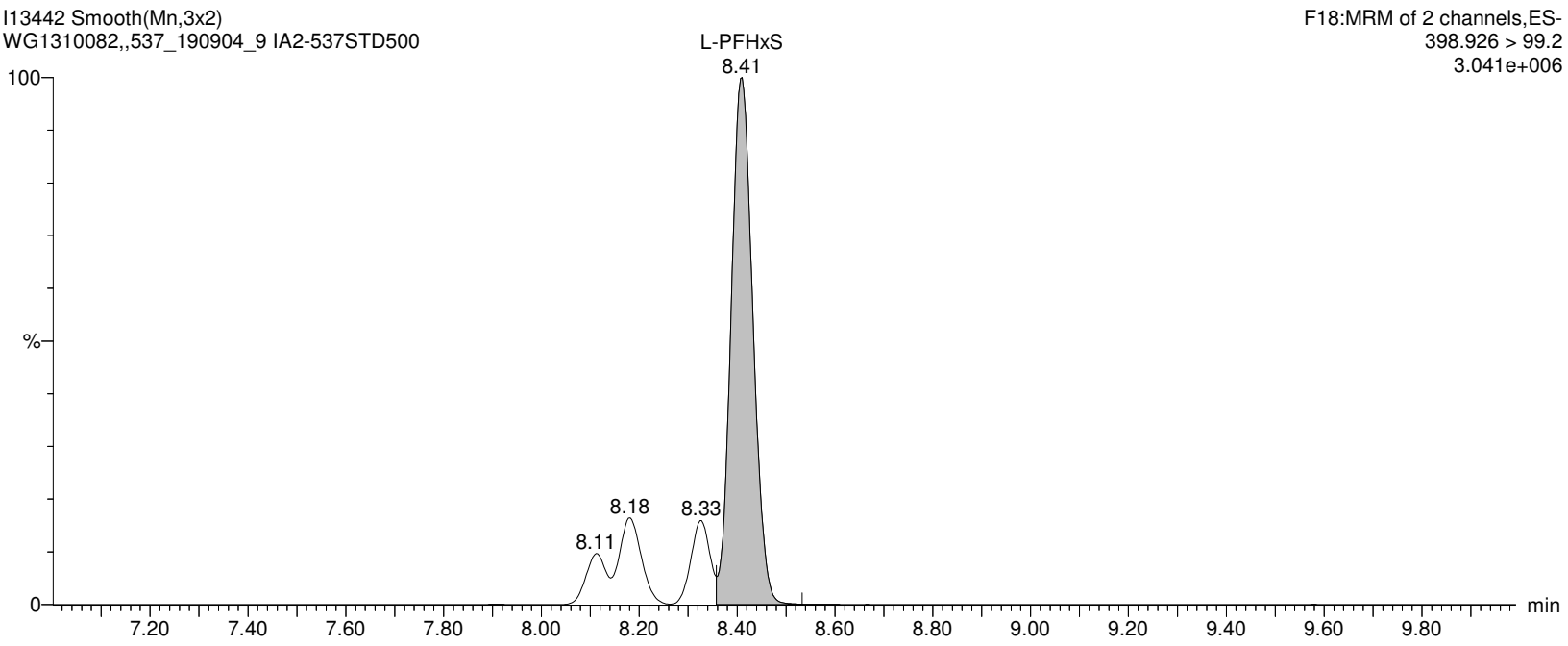

all concentration units in (ng/mL)

Alpha Analytical Inc.
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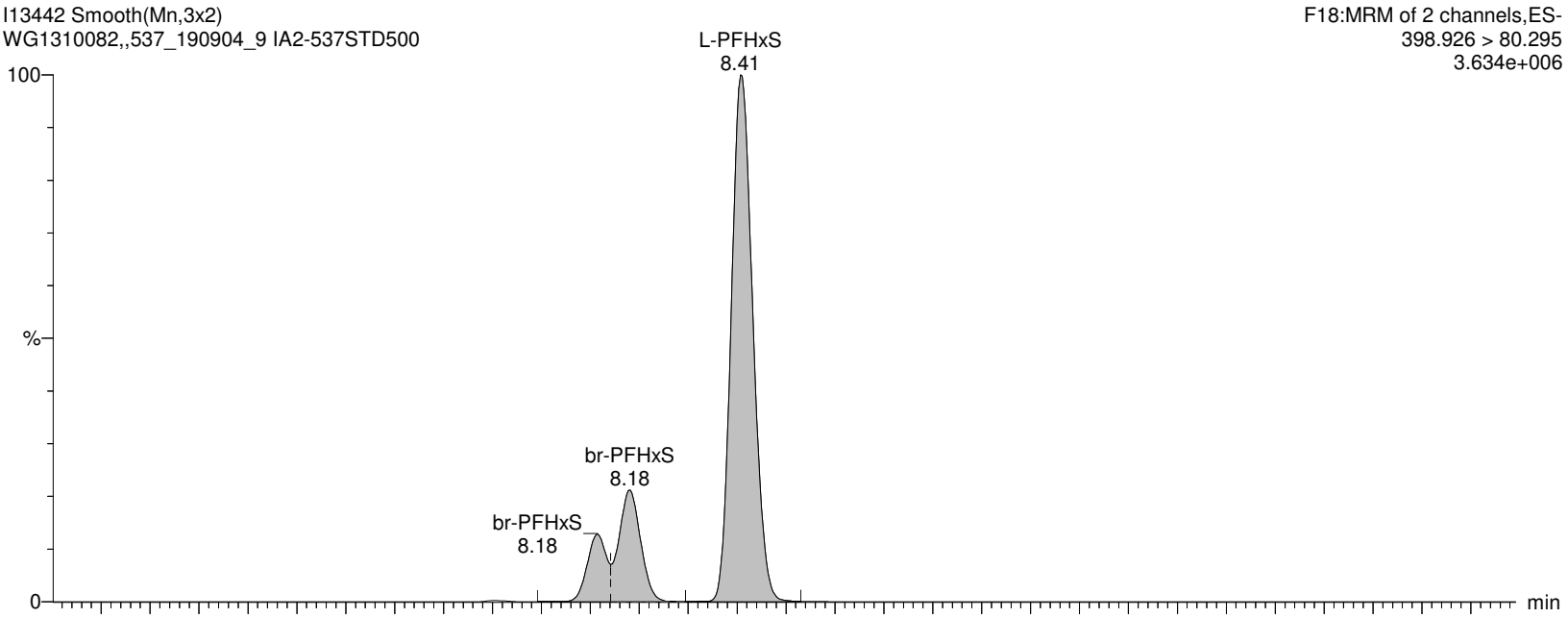

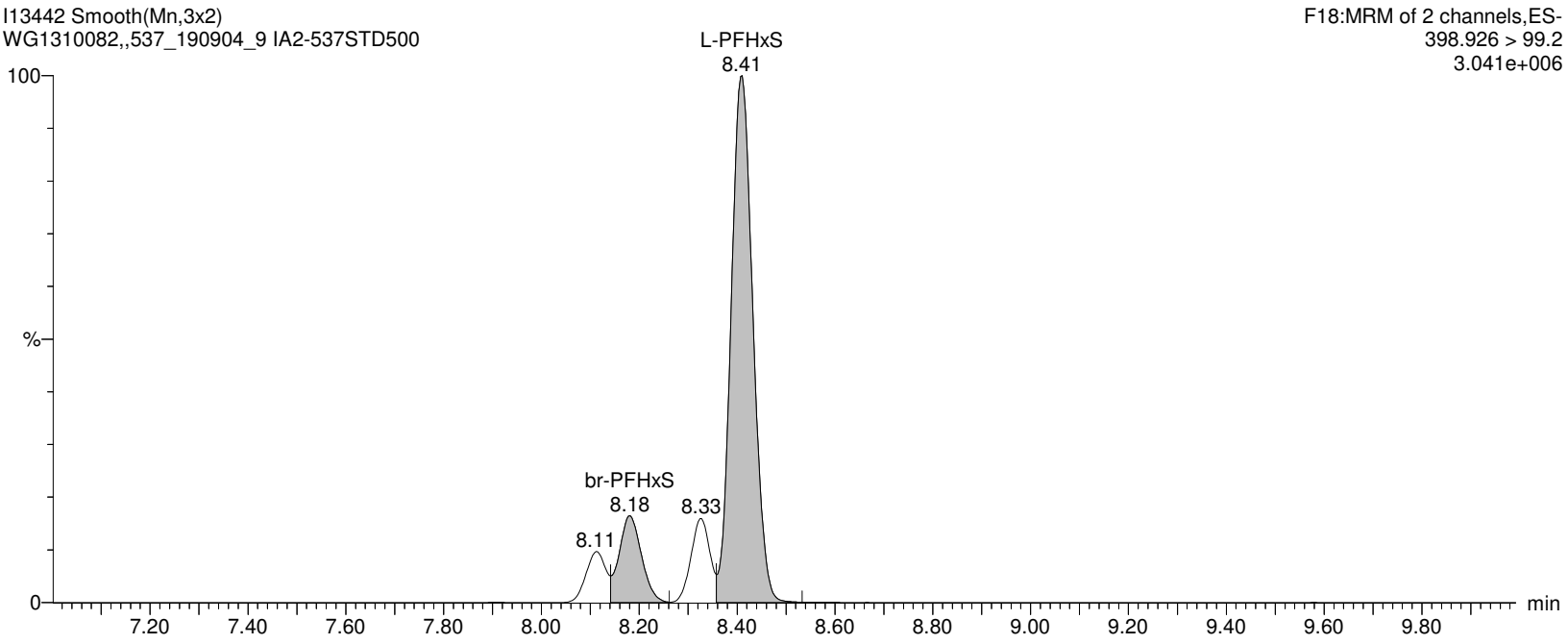

all concentration units in (ng/mL)

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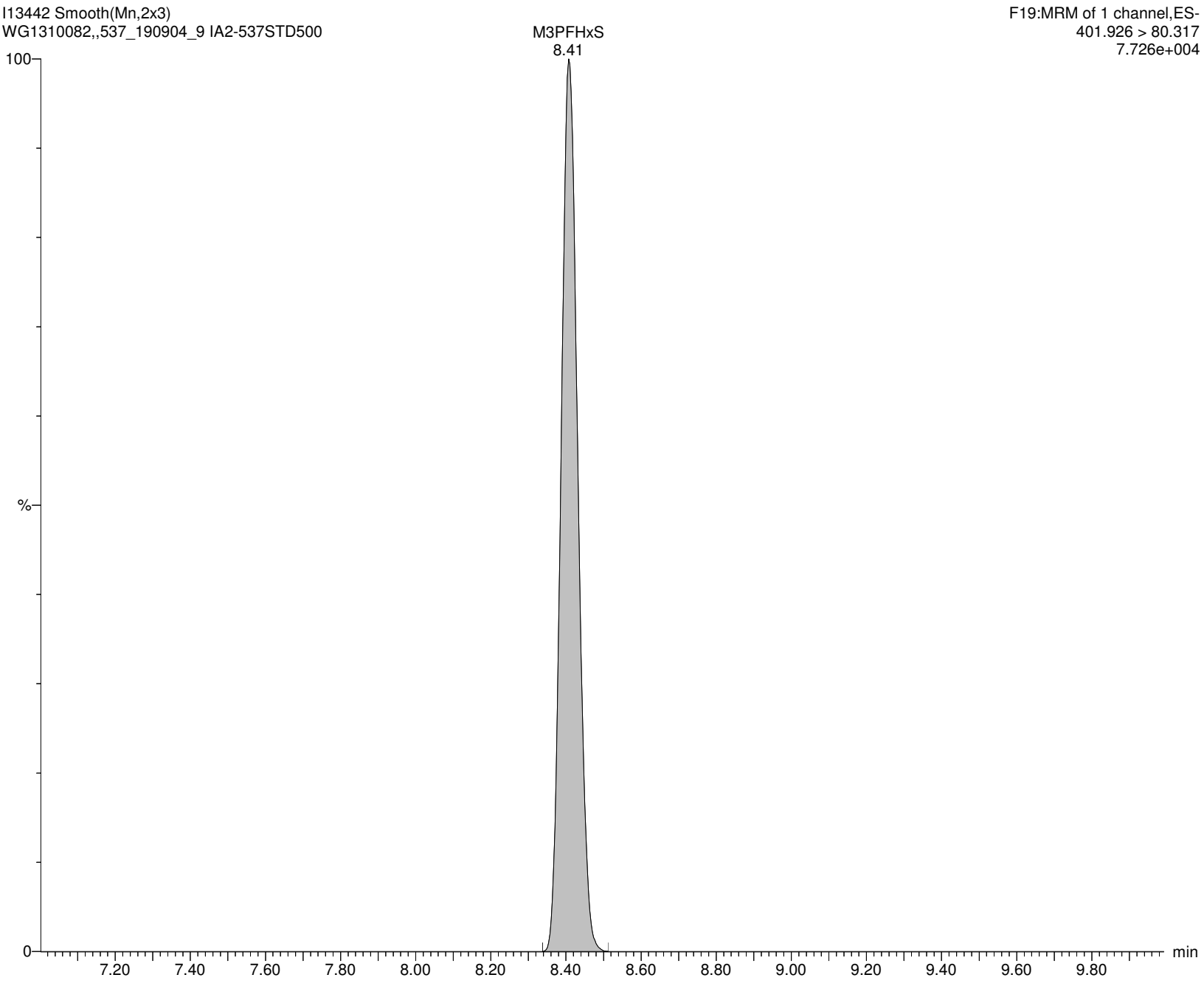

all concentration units in (ng/mL)

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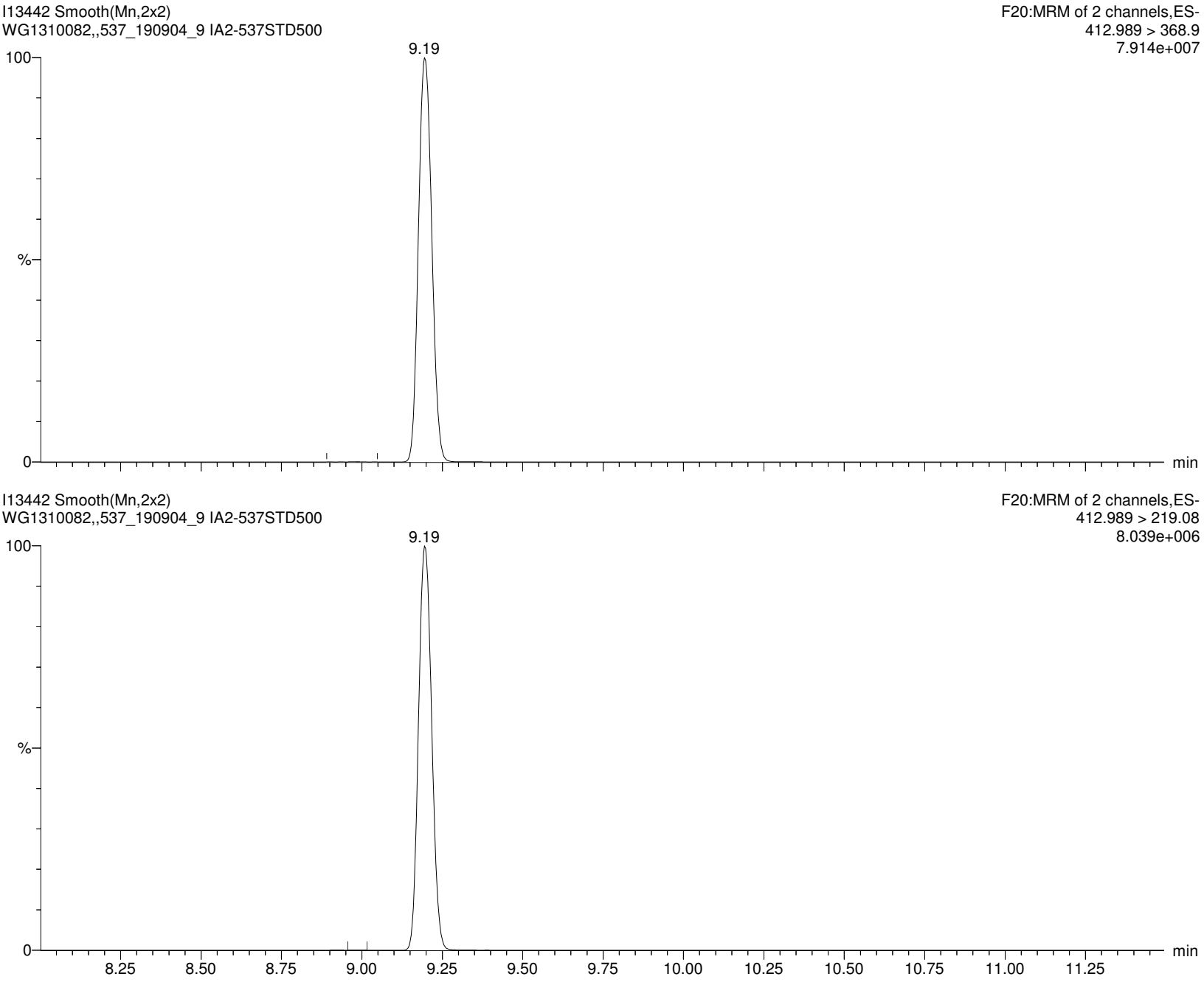

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:05 Eastern Standard Time

Name: I13442
ID: IA2-537STD500
Date: 18-Nov-2019
Time: 12:49:53
Description: WG1310082,,537_190904_9
User: LCMS02:JW
Vial: 1:B,2
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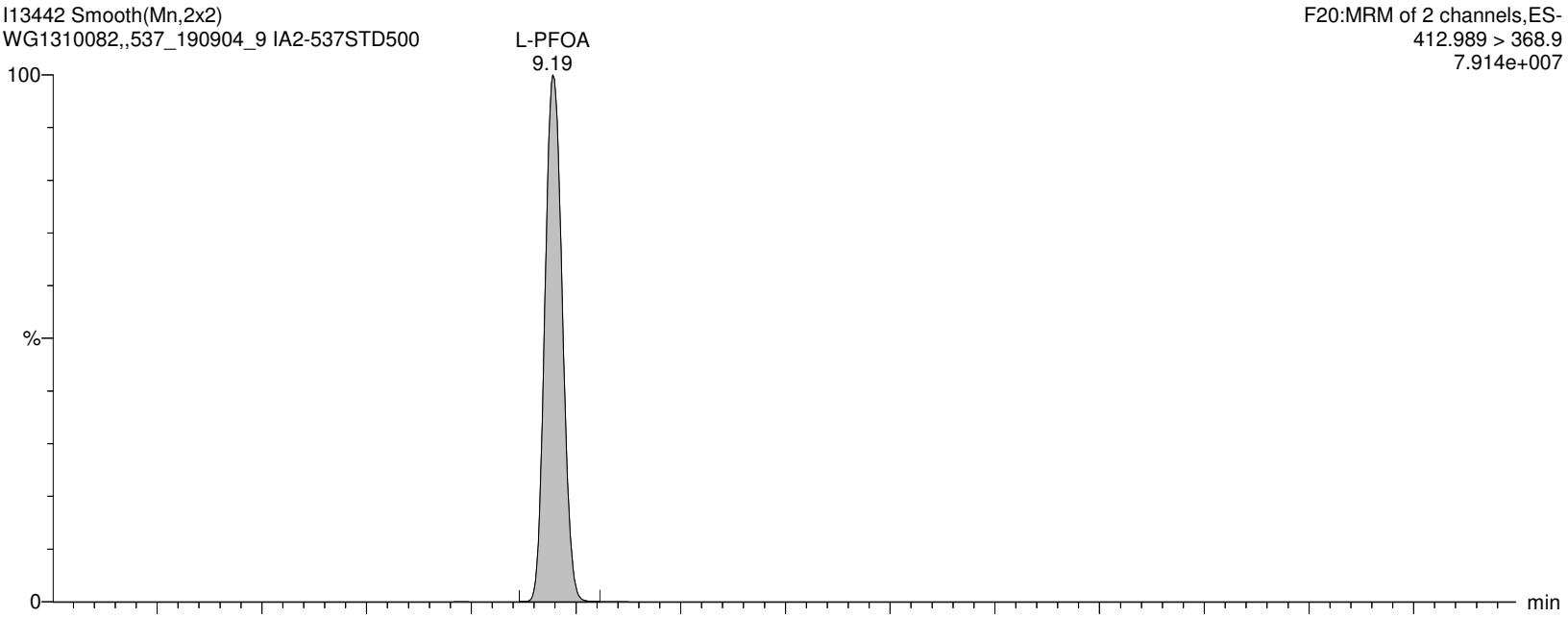

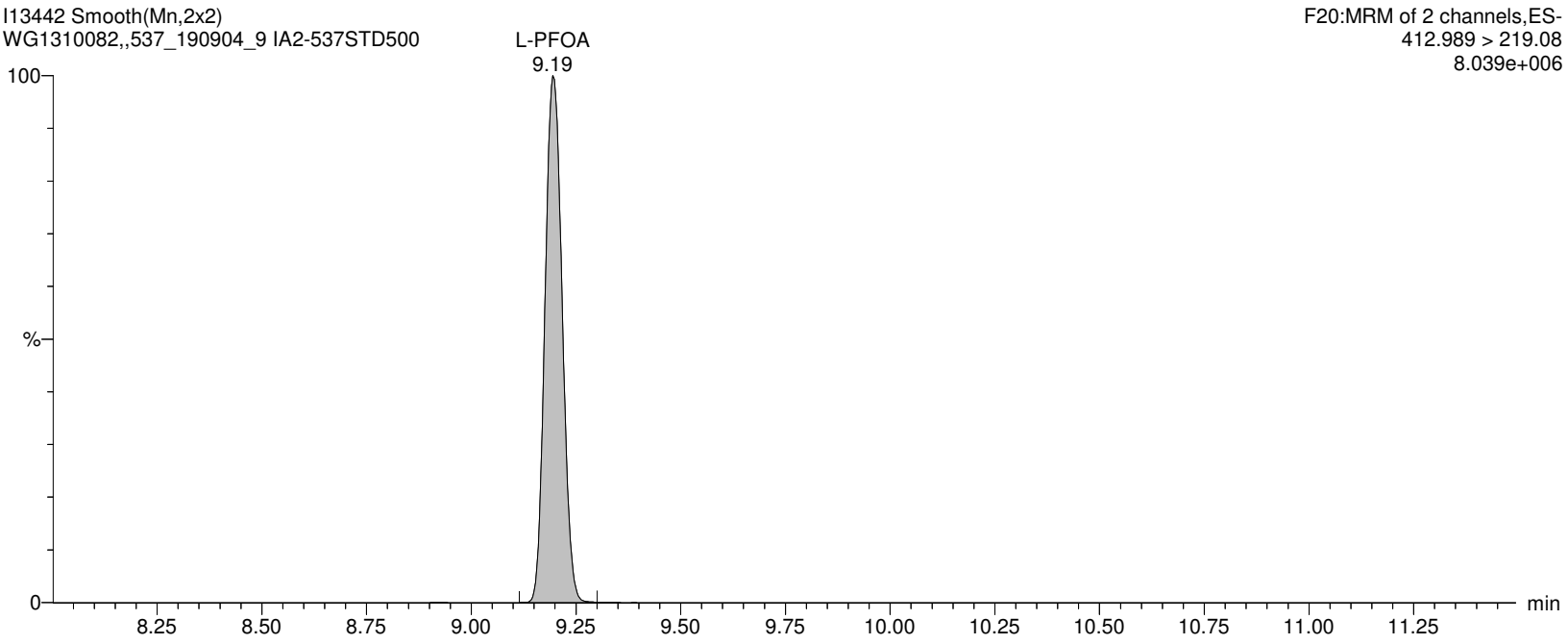

all concentration units in (ng/mL)

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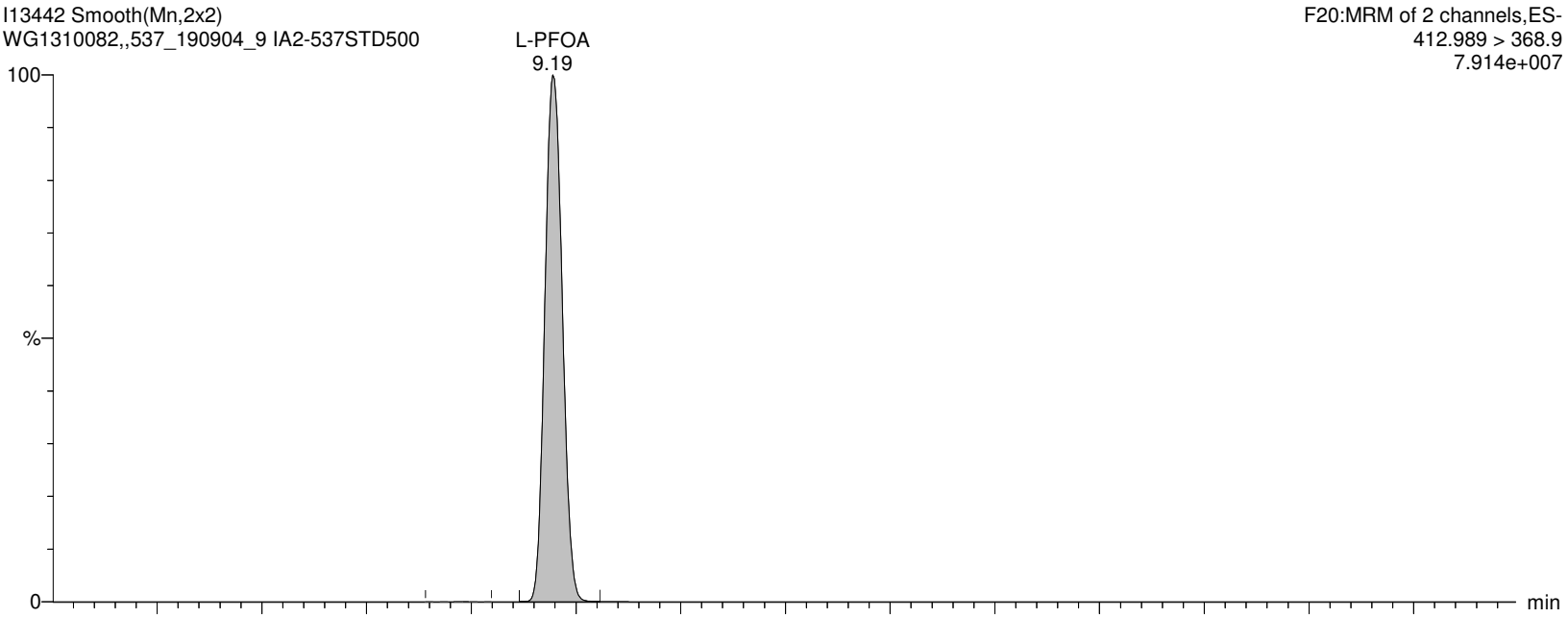

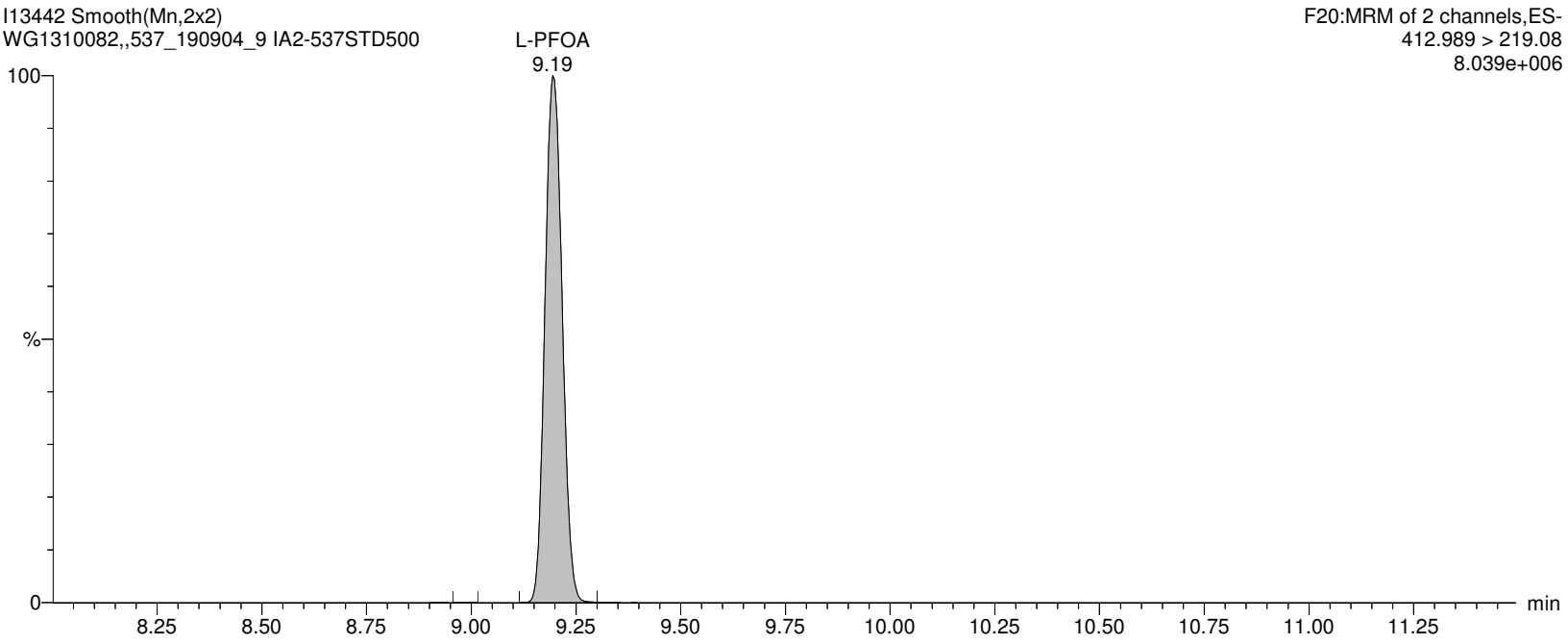

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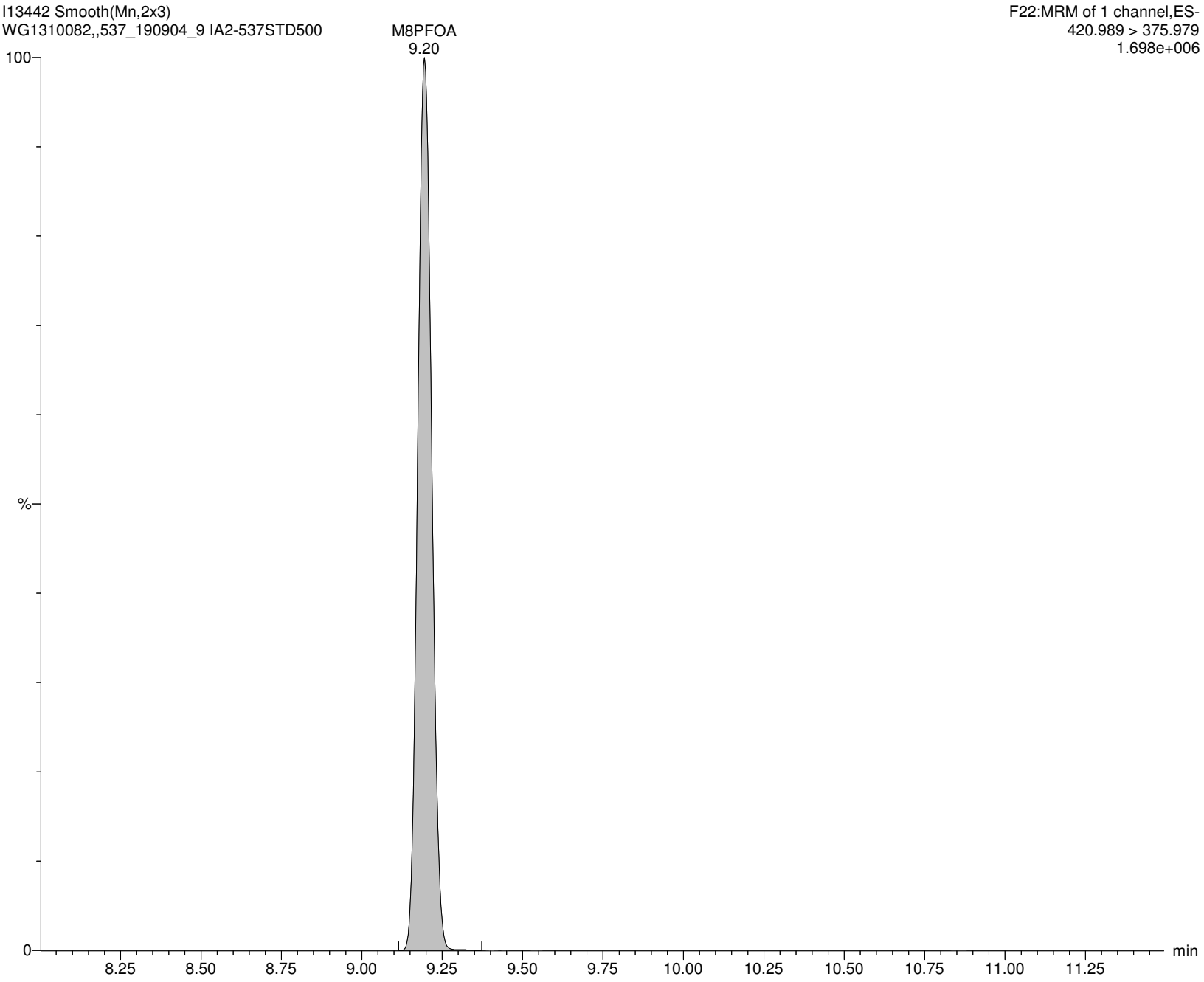

all concentration units in (ng/mL)

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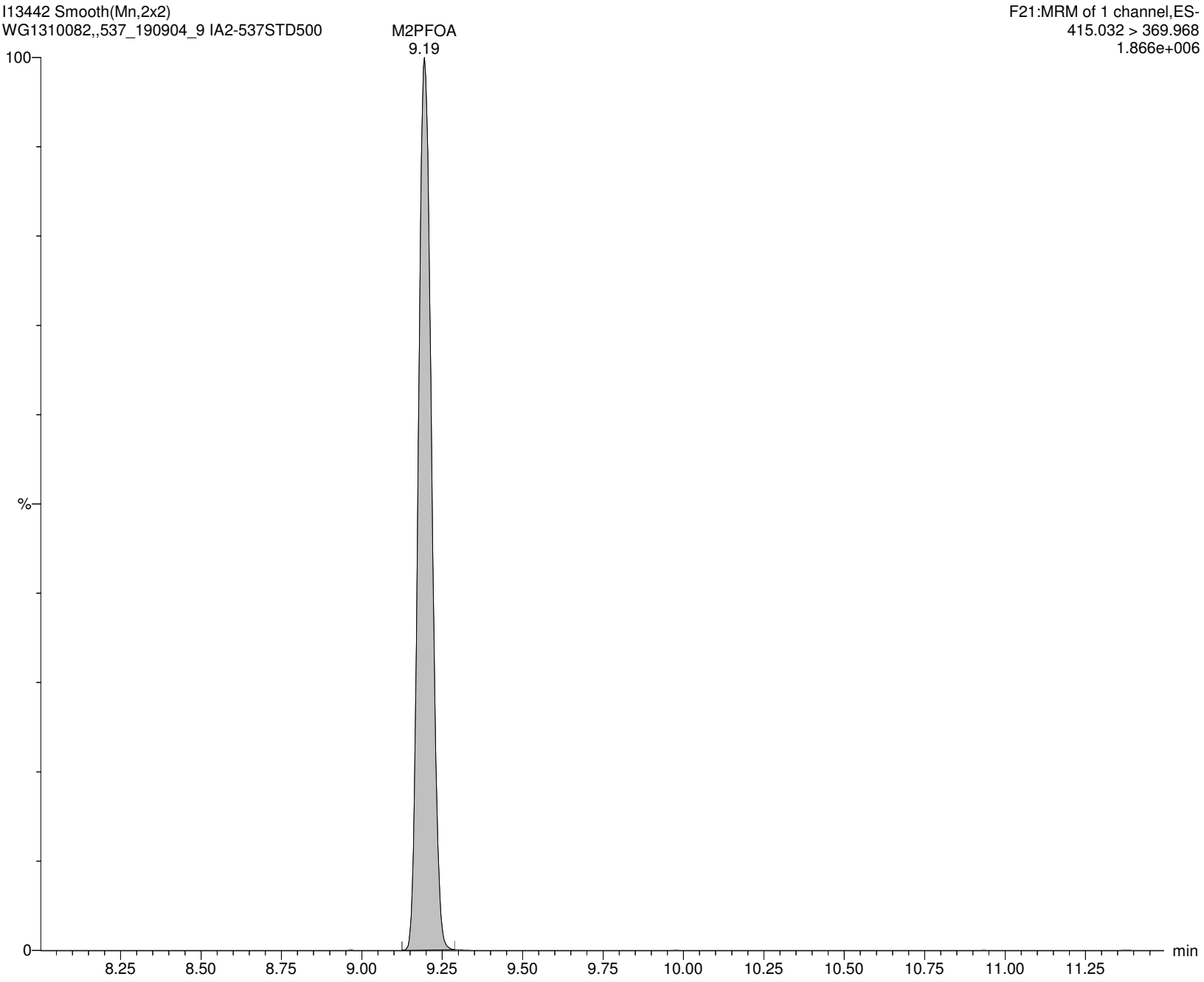

all concentration units in (ng/mL)

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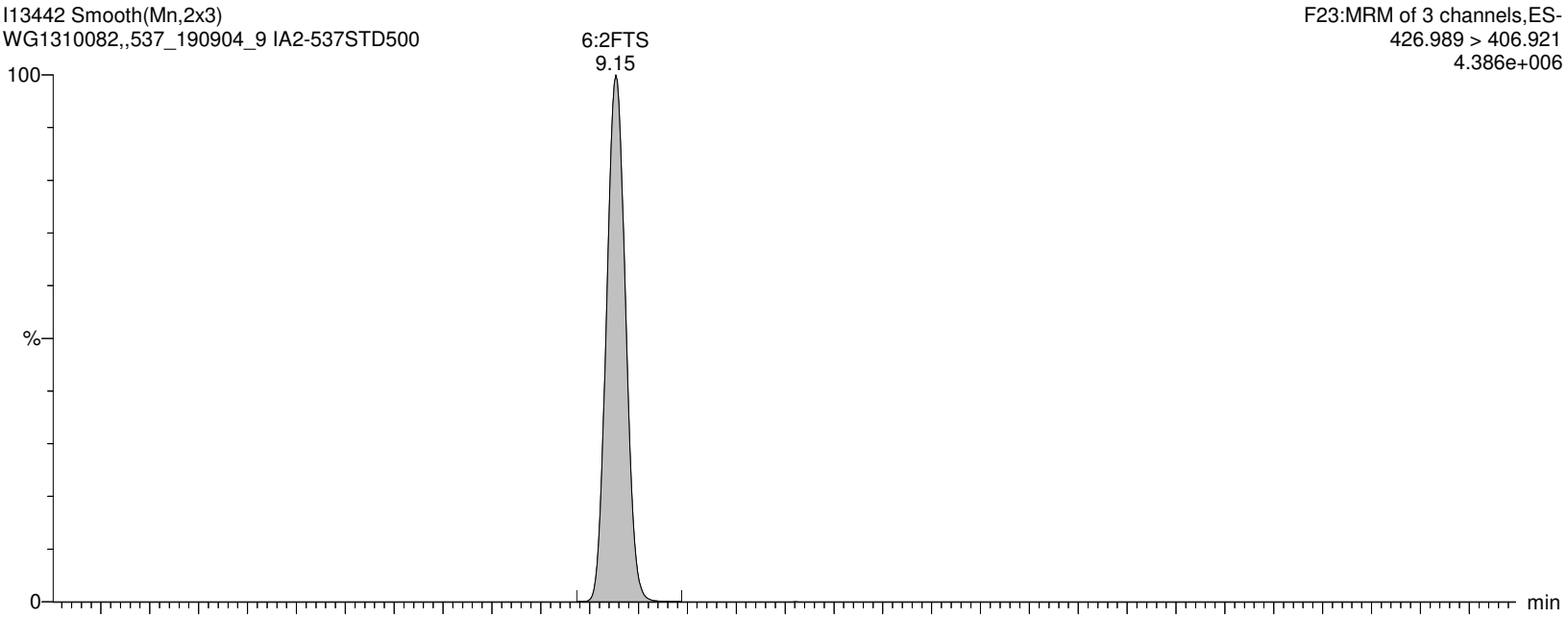

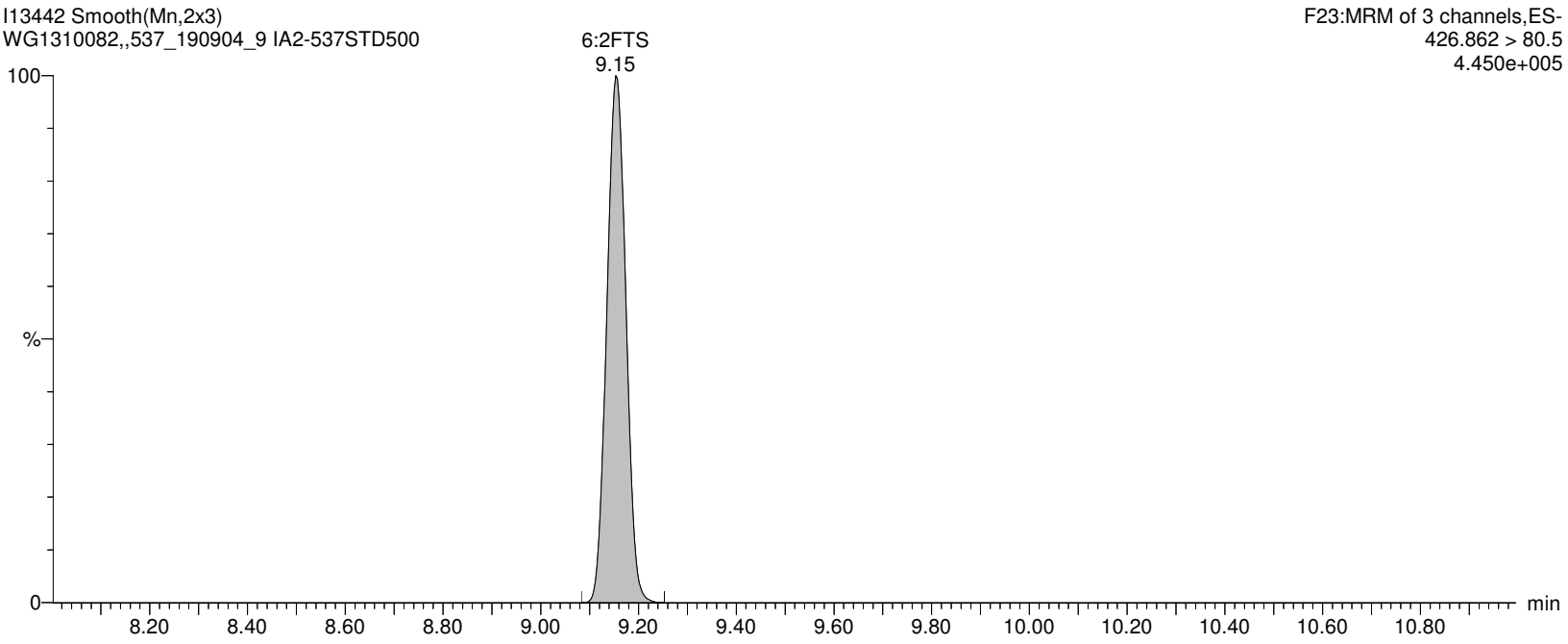

all concentration units in (ng/mL)

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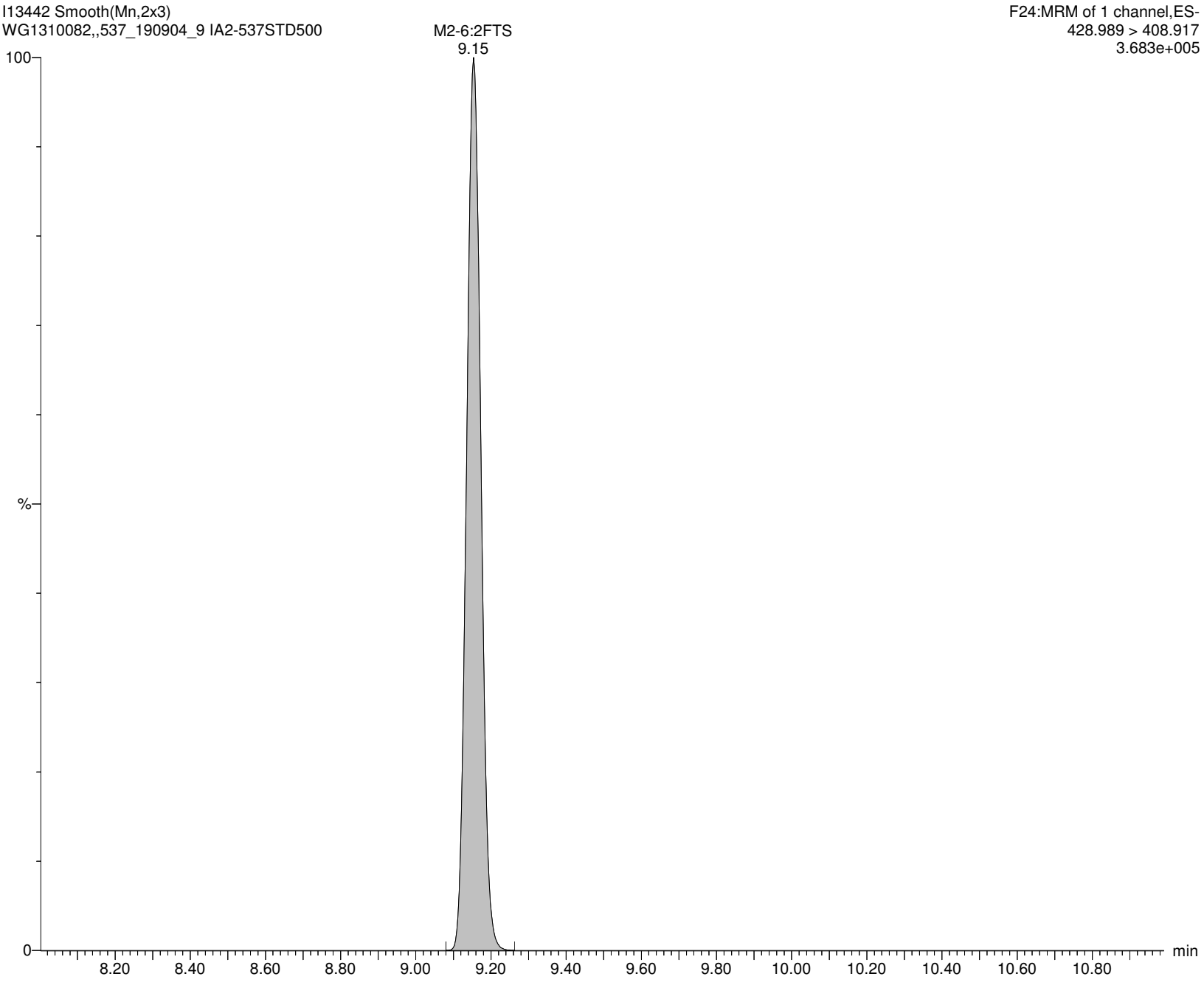

all concentration units in (ng/mL)

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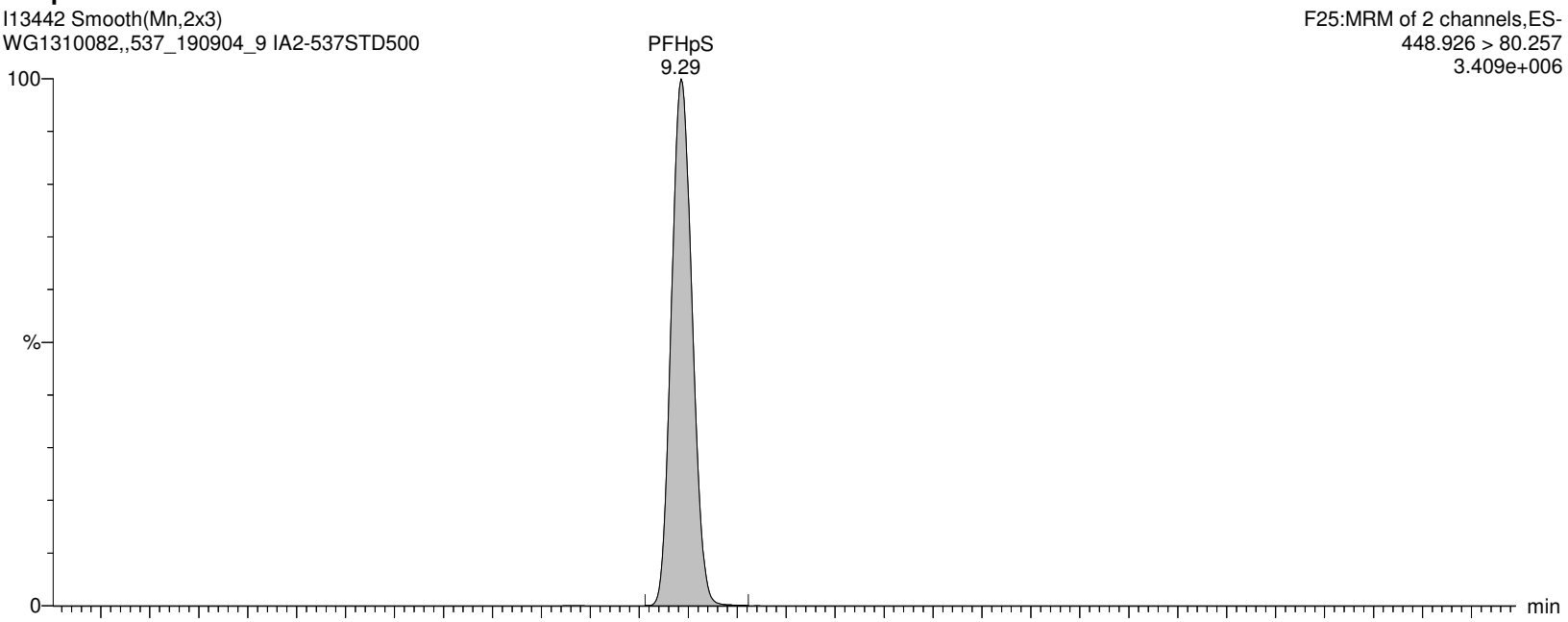

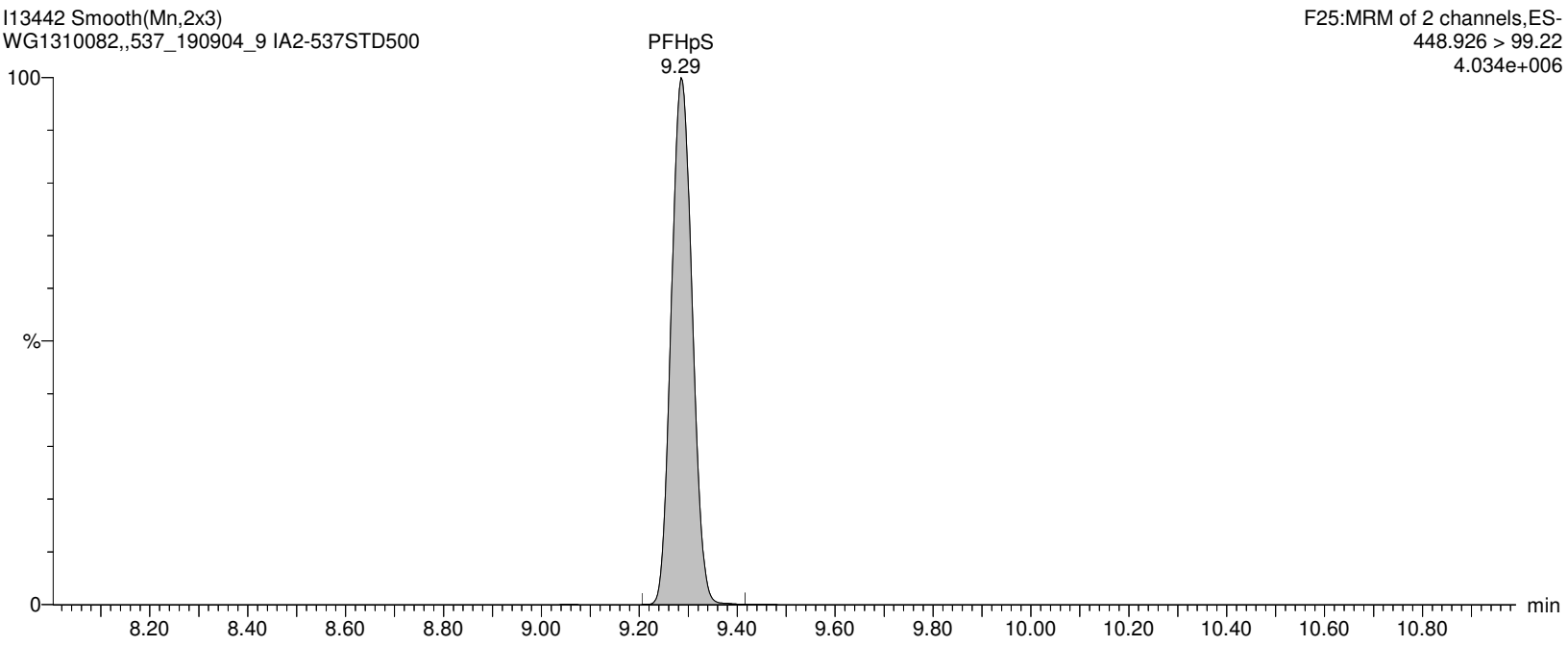

all concentration units in (ng/mL)

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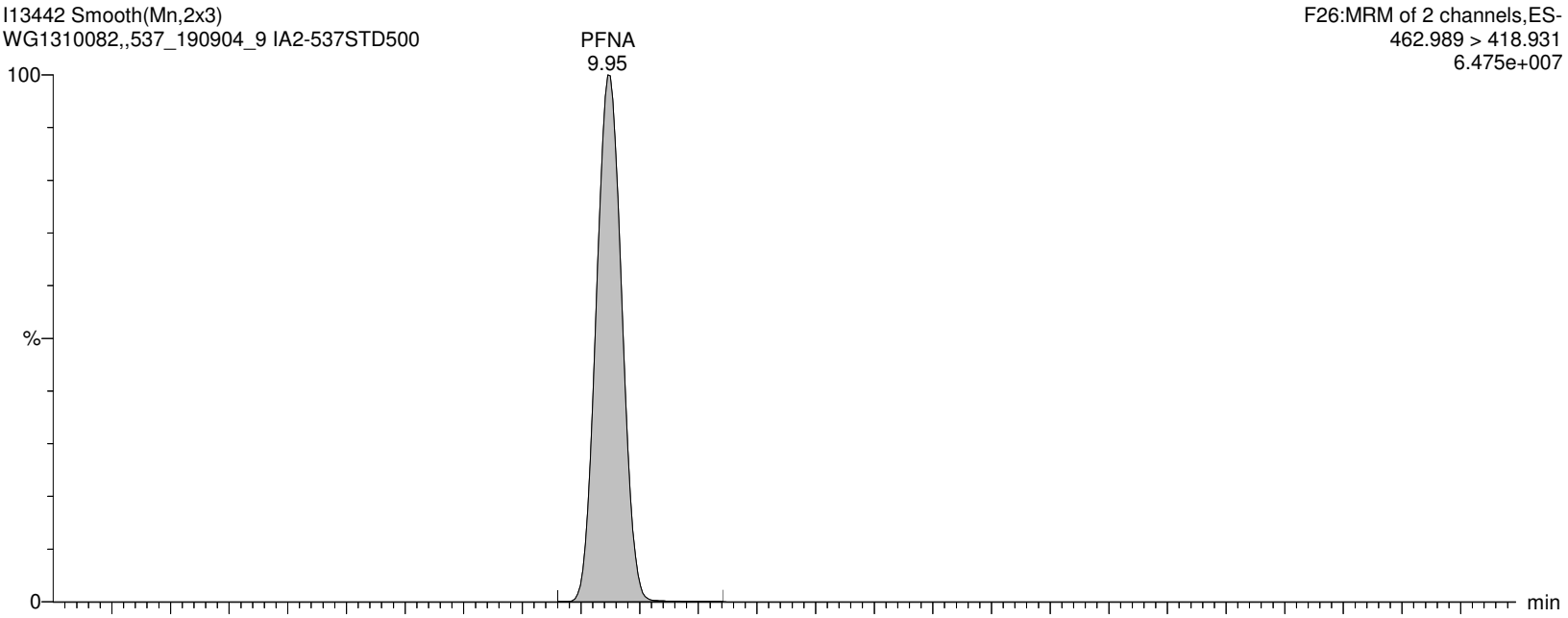

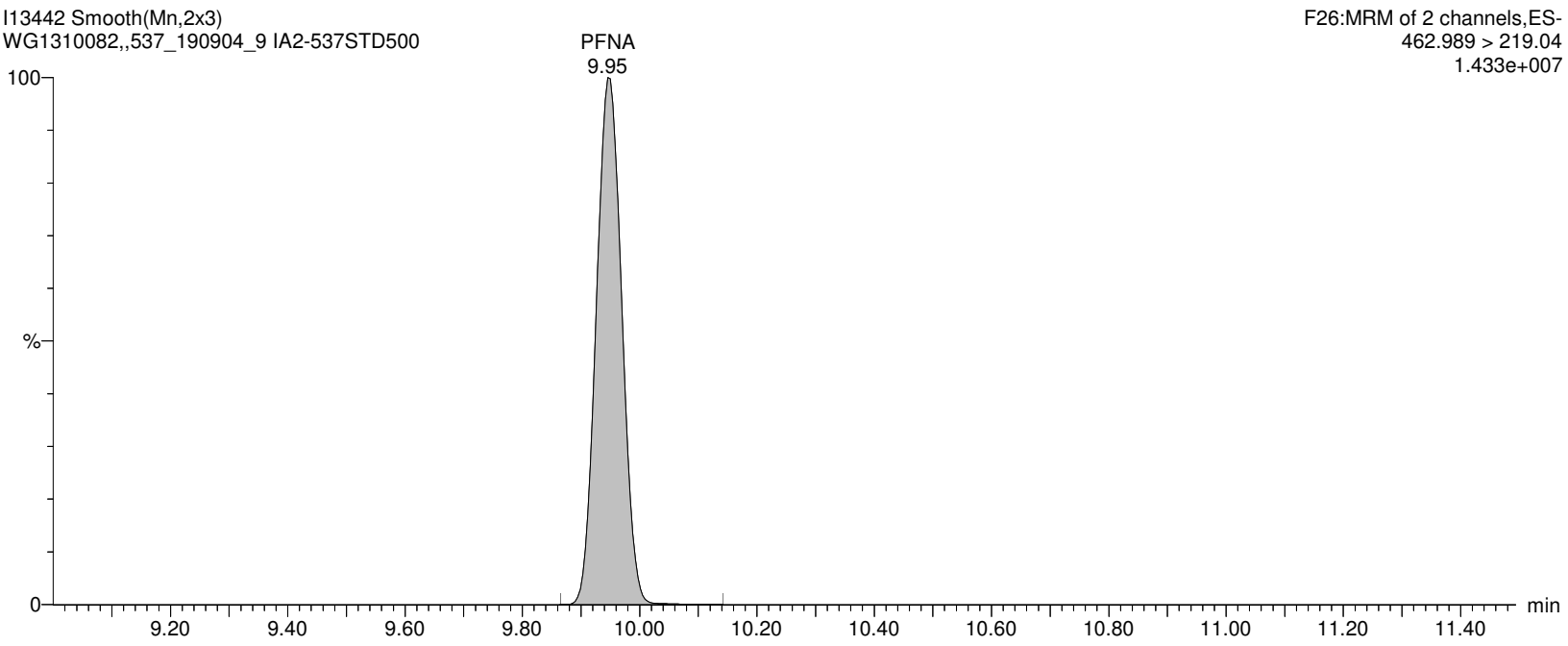

all concentration units in (ng/mL)

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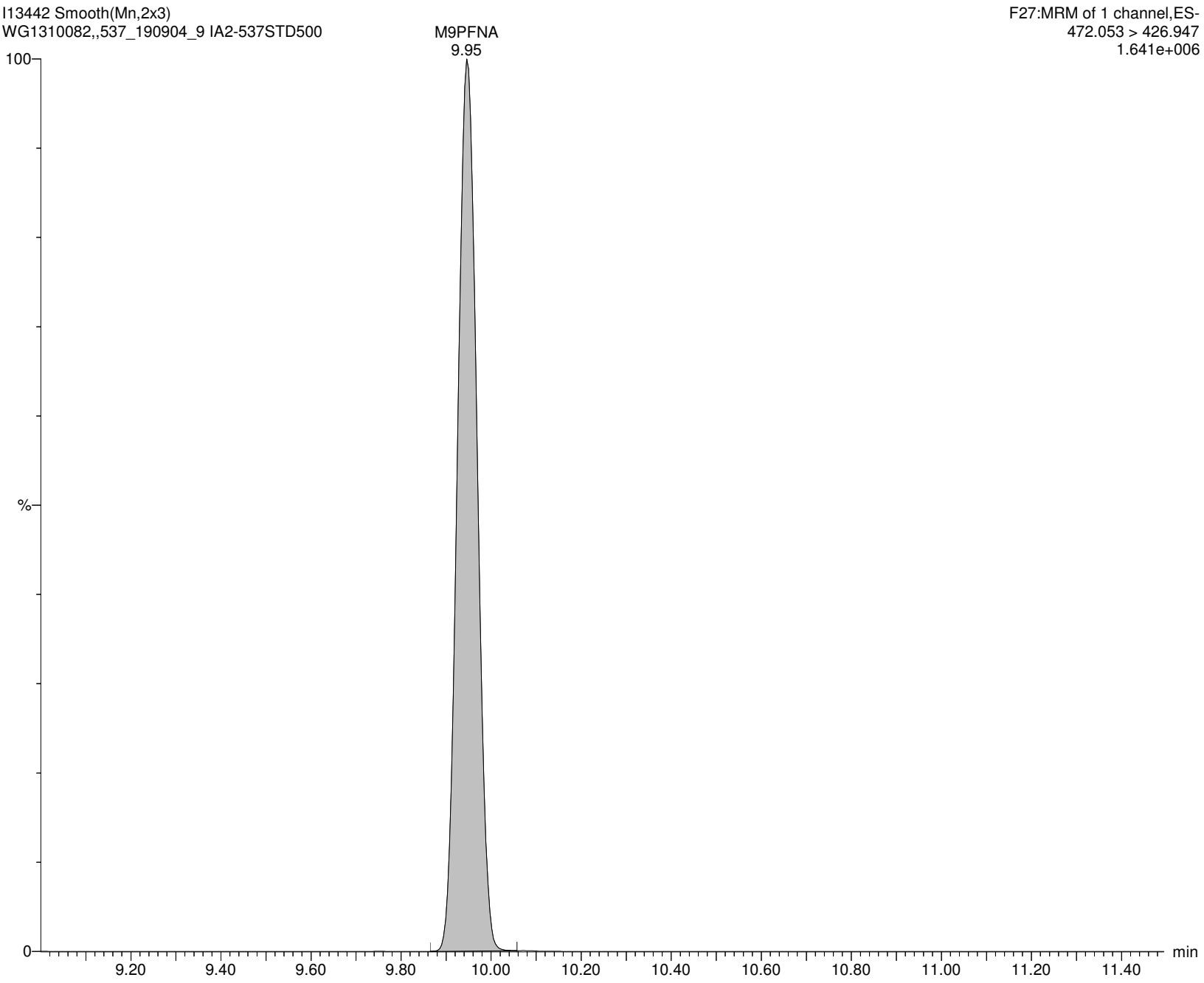

all concentration units in (ng/mL)

Alpha Analytical Inc.
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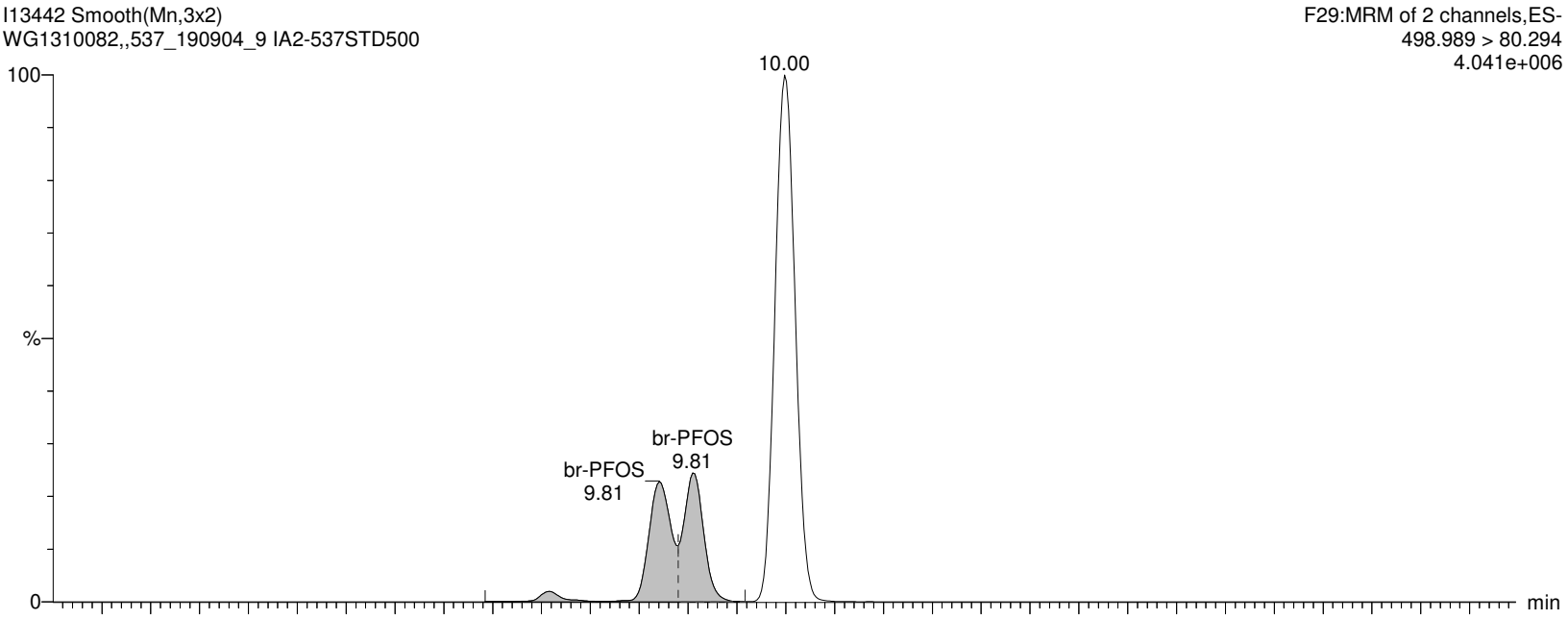

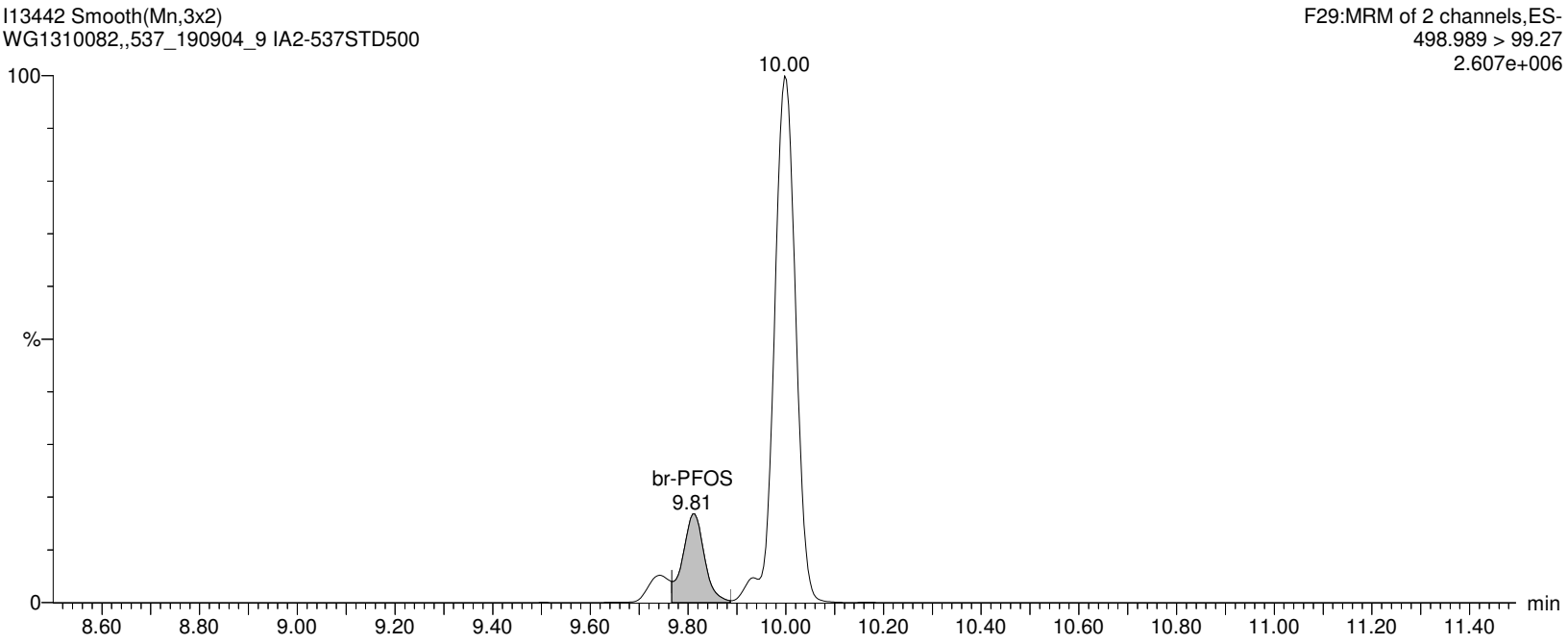

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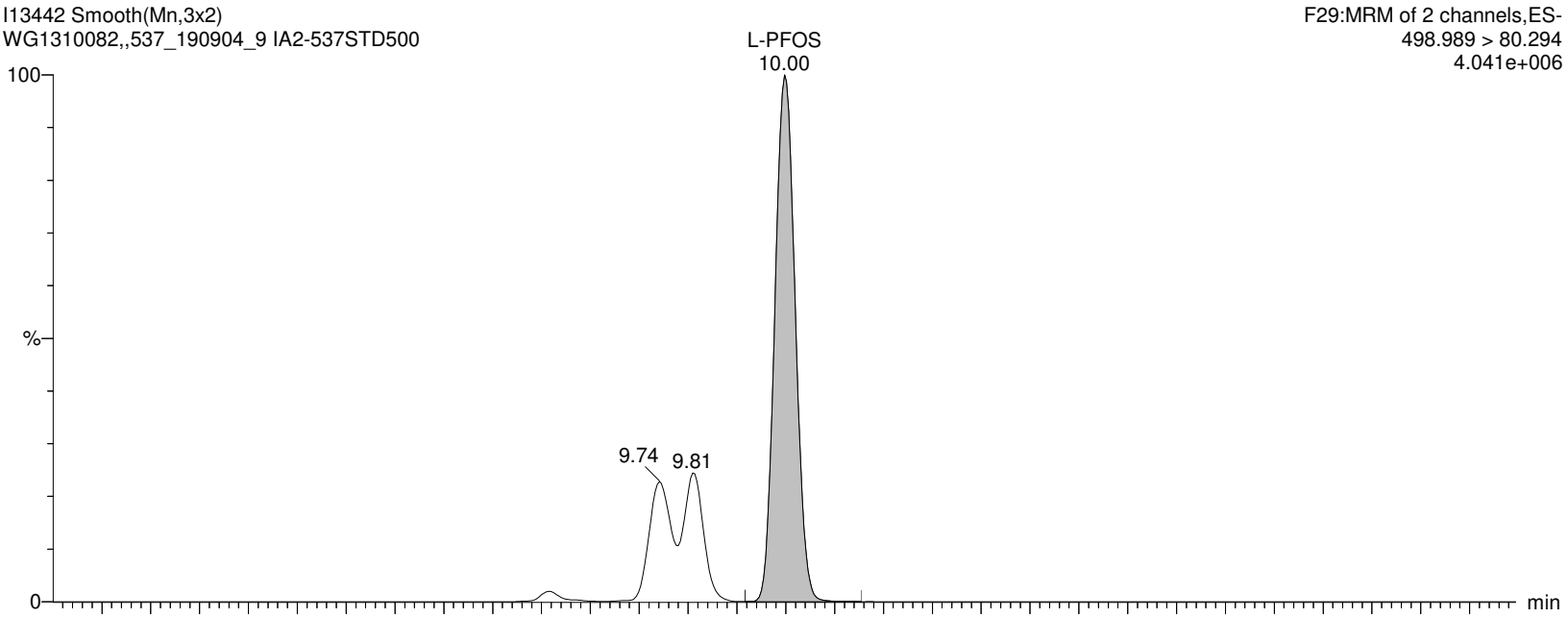

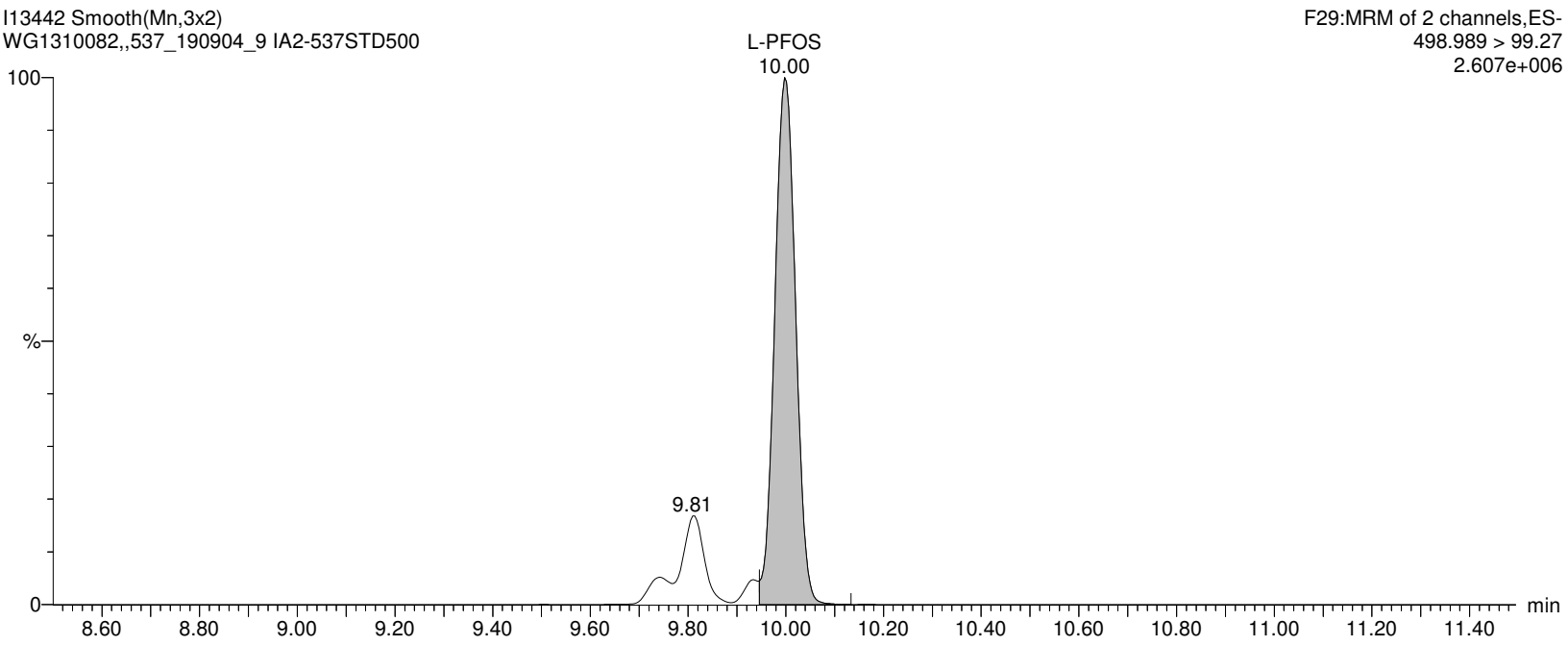

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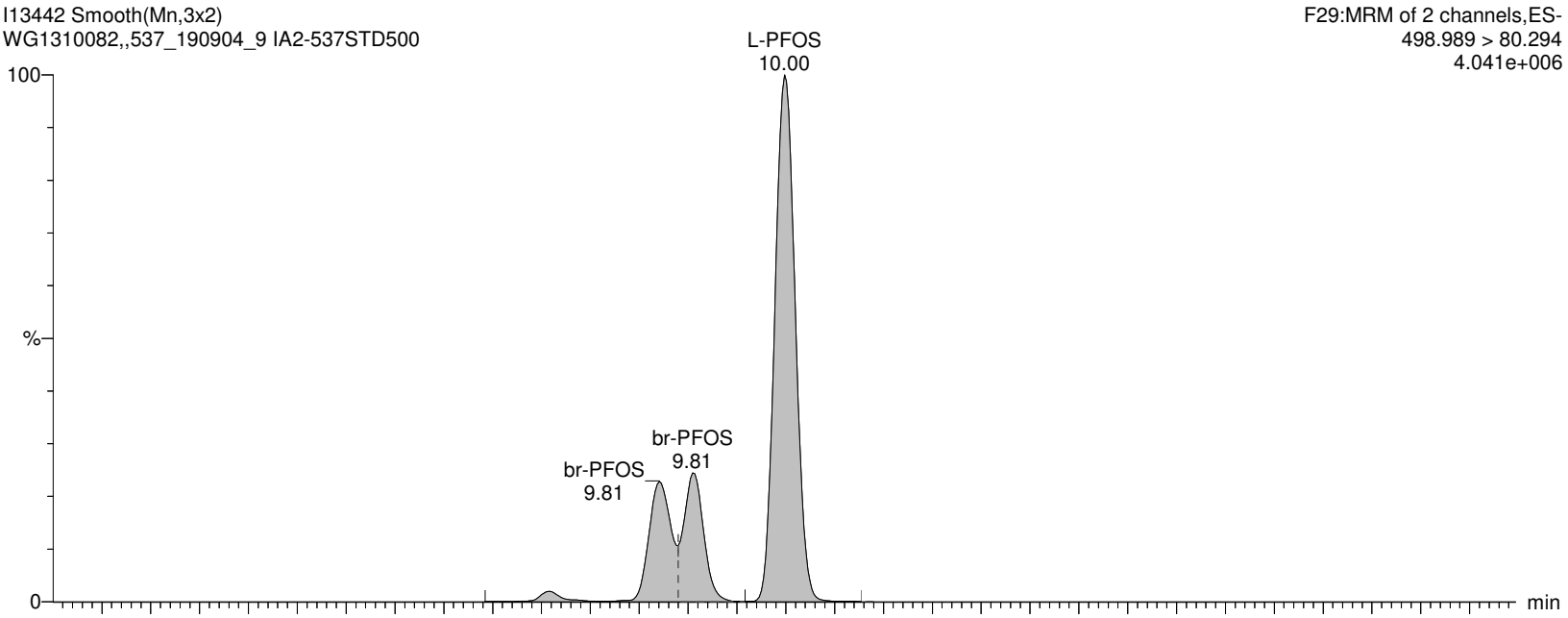

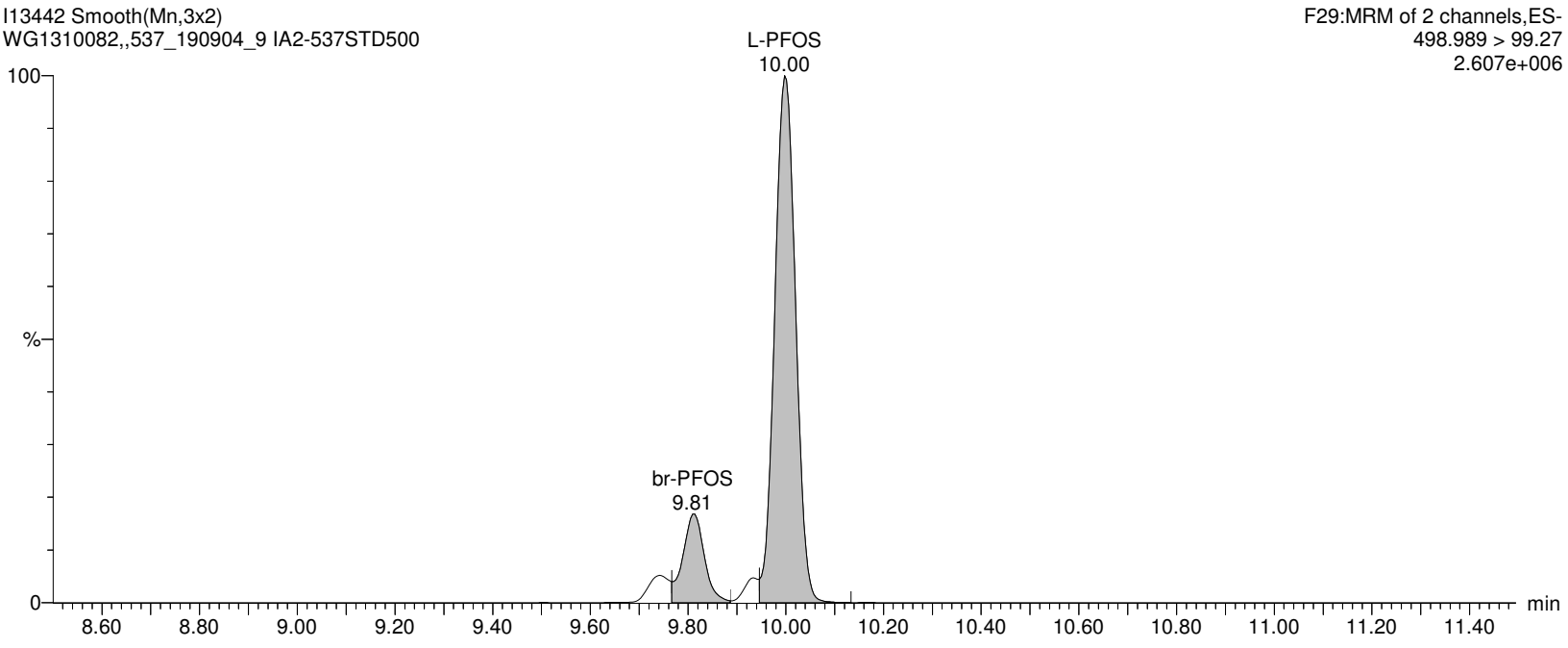

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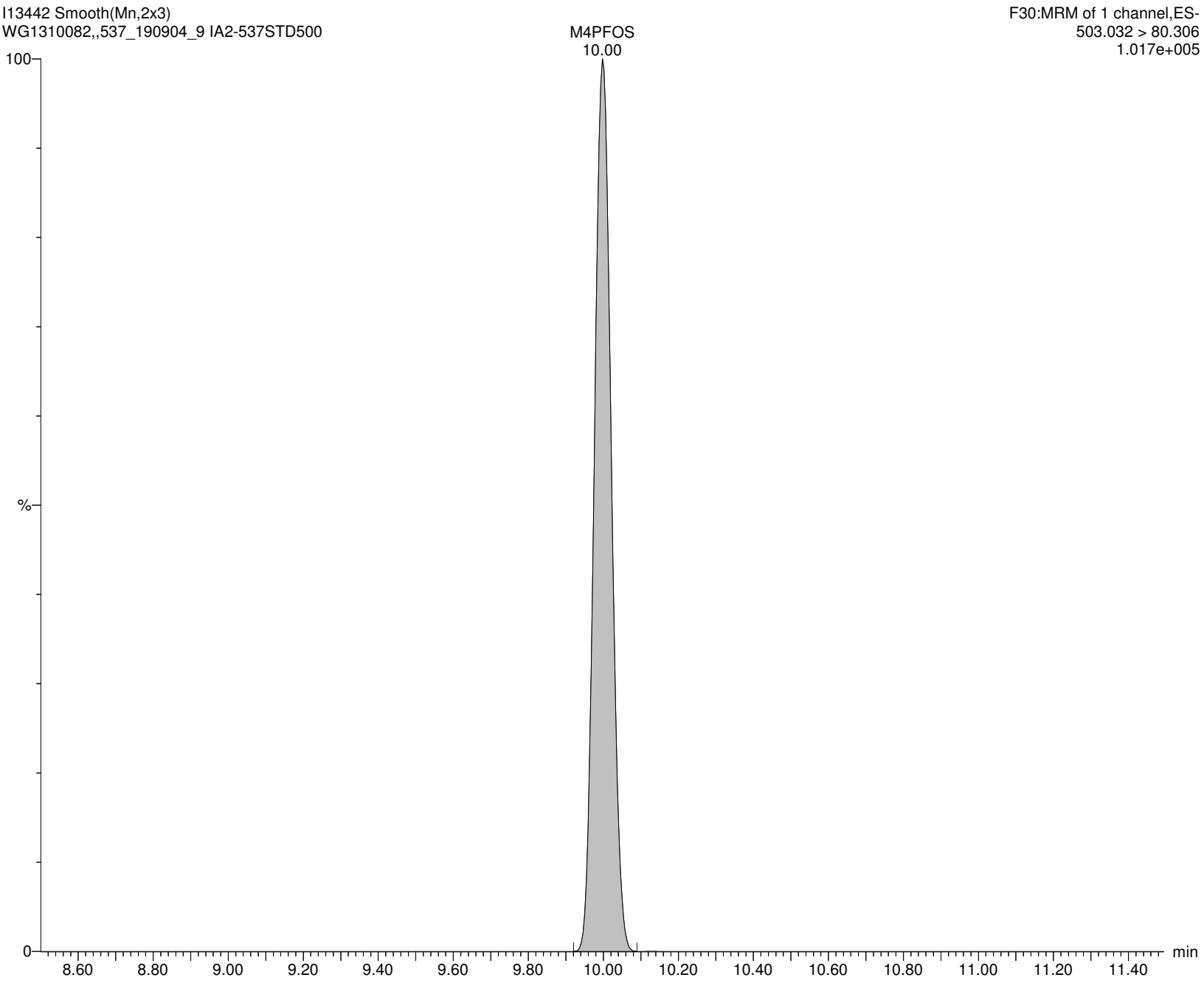

all concentration units in (ng/mL)

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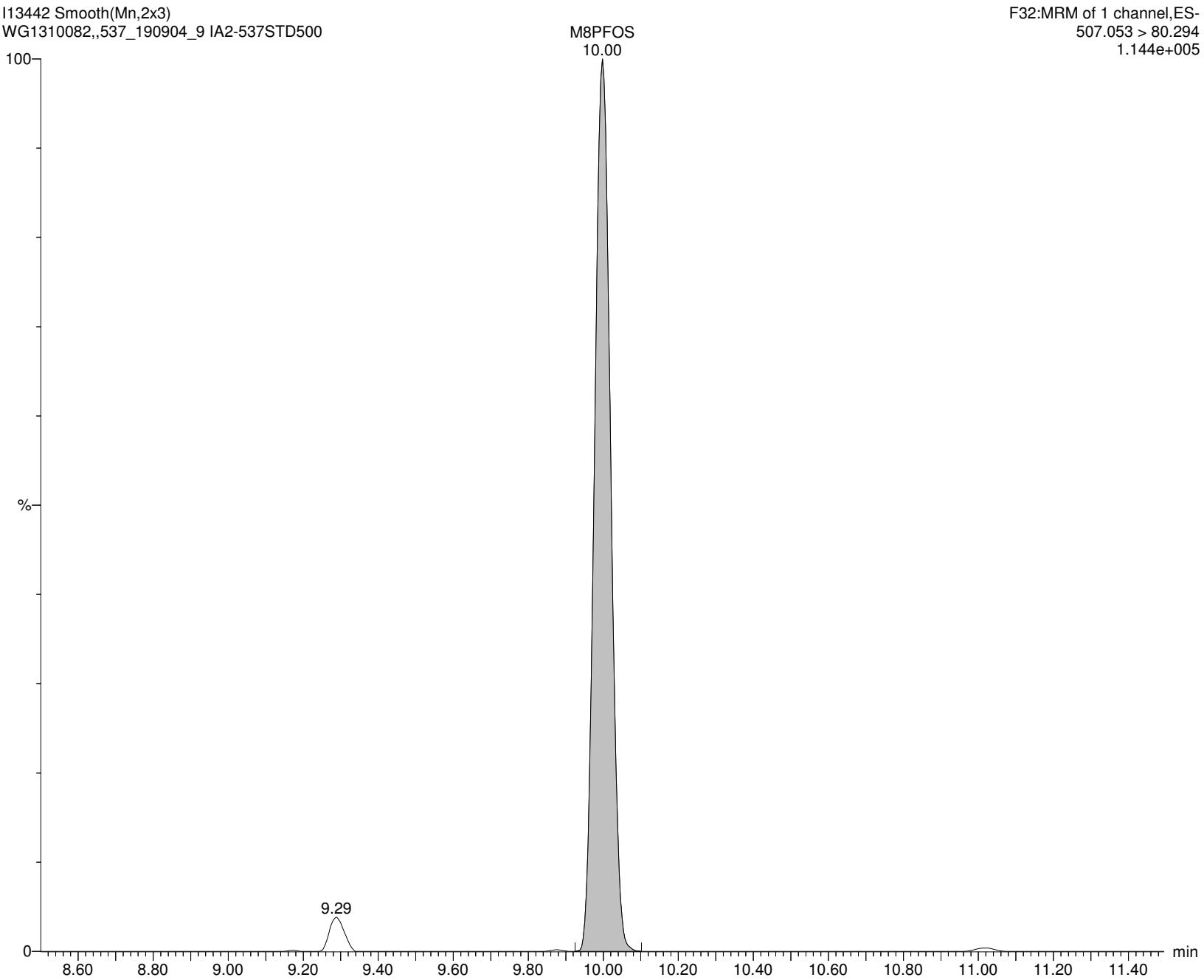

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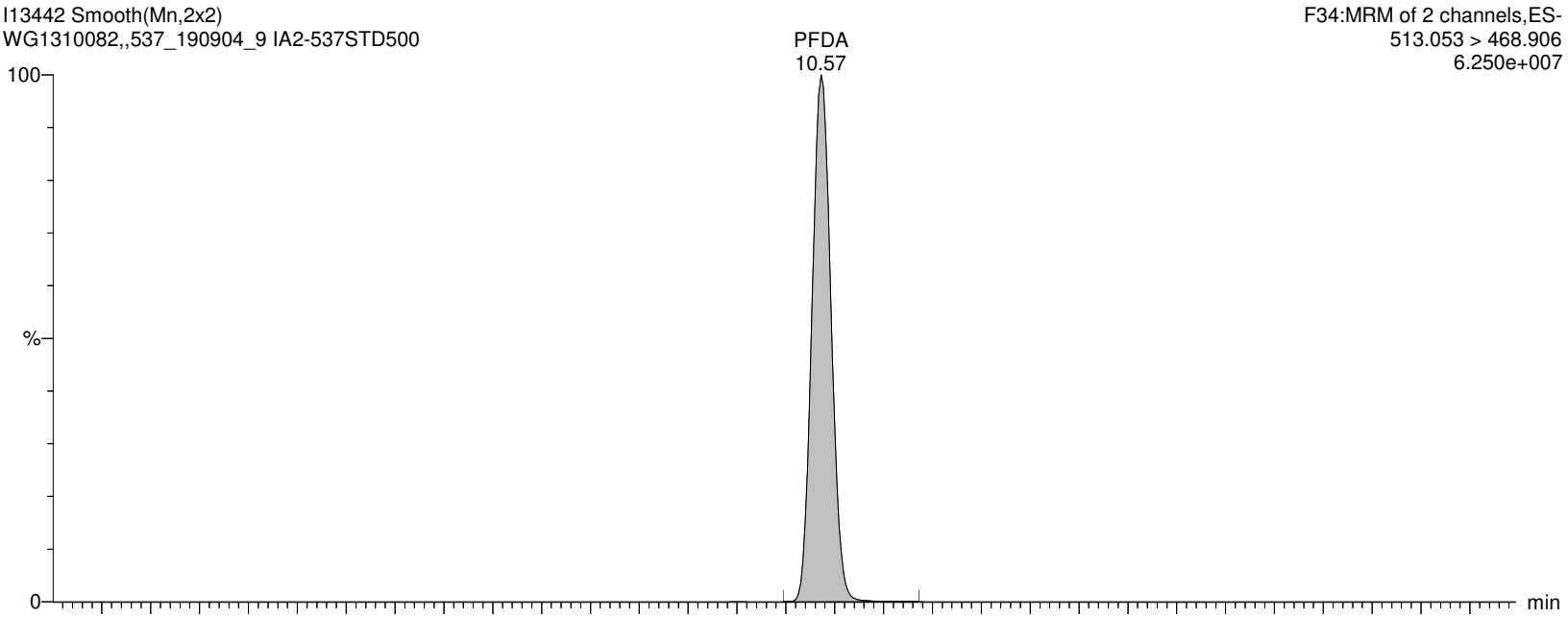

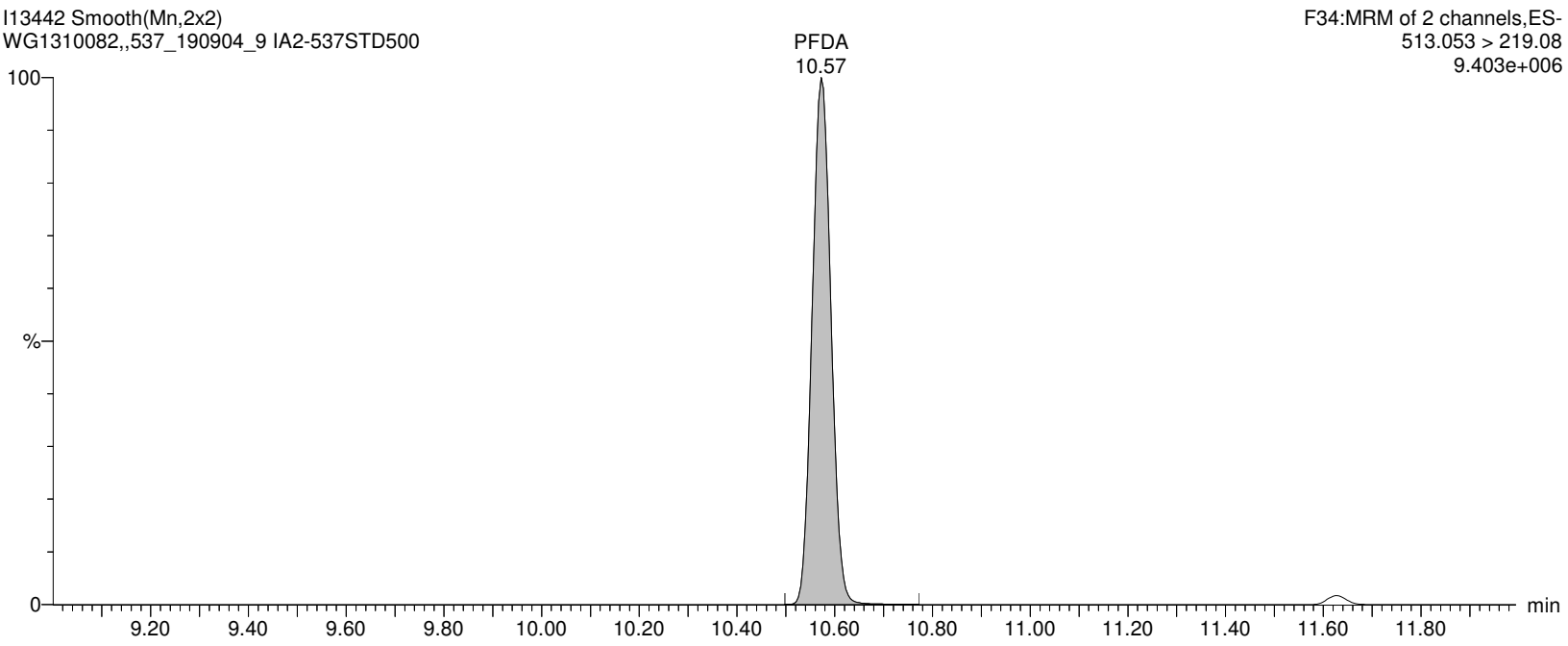

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:05 Eastern Standard Time

Name: I13442
ID: IA2-537STD500
Date: 18-Nov-2019
Time: 12:49:53
Description: WG1310082,,537_190904_9
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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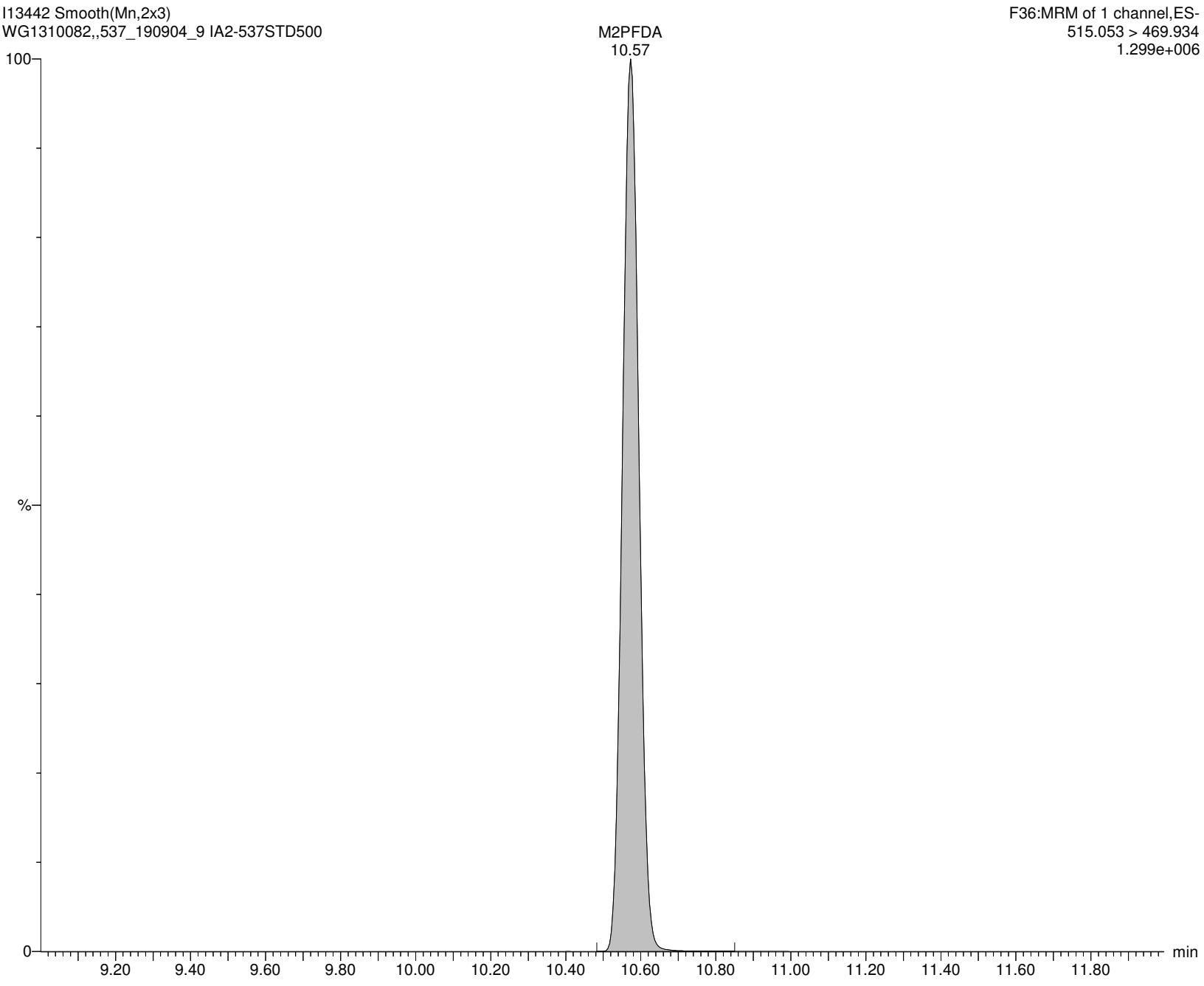

all concentration units in (ng/mL)

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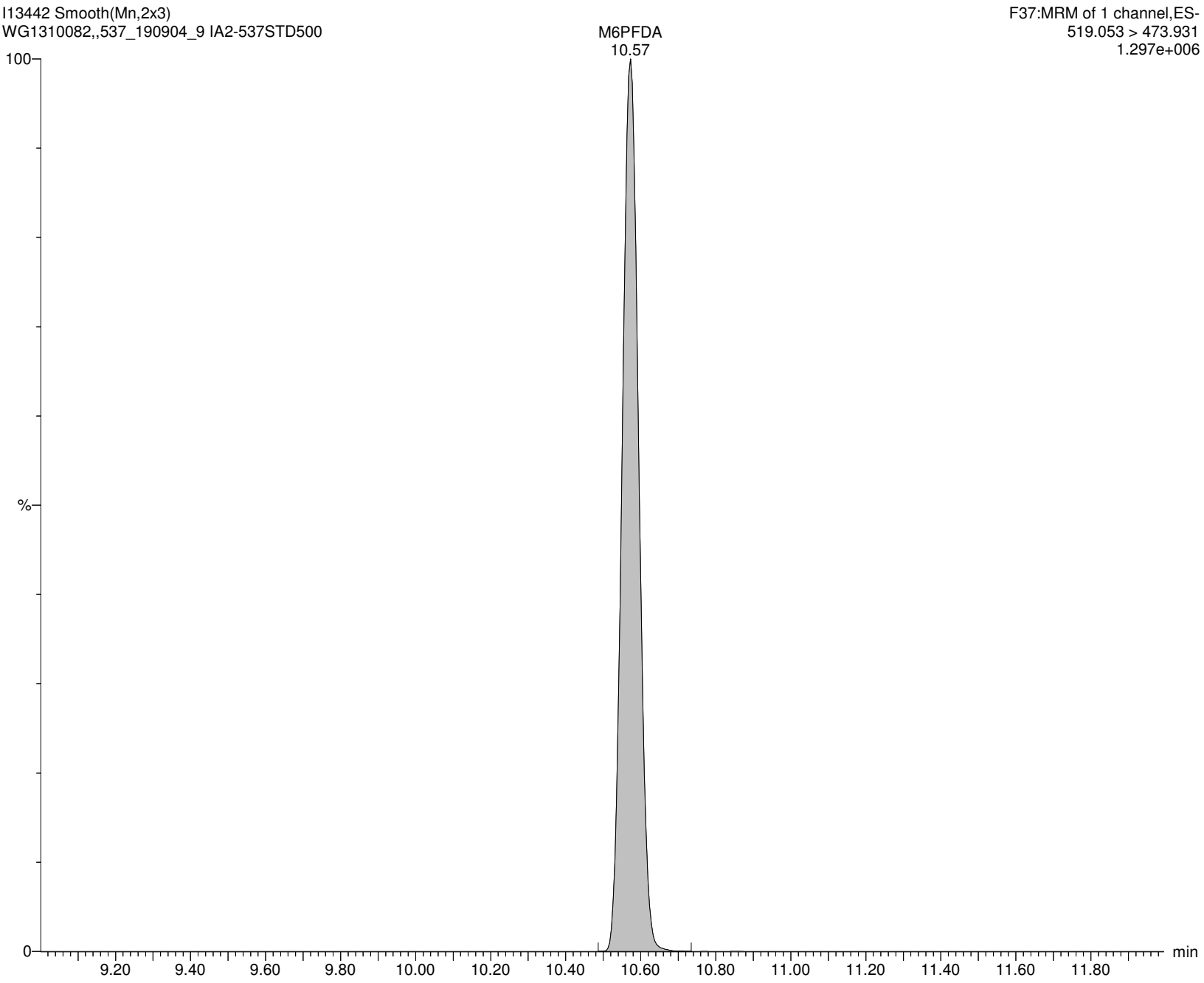

all concentration units in (ng/mL)

Alpha Analytical Inc.
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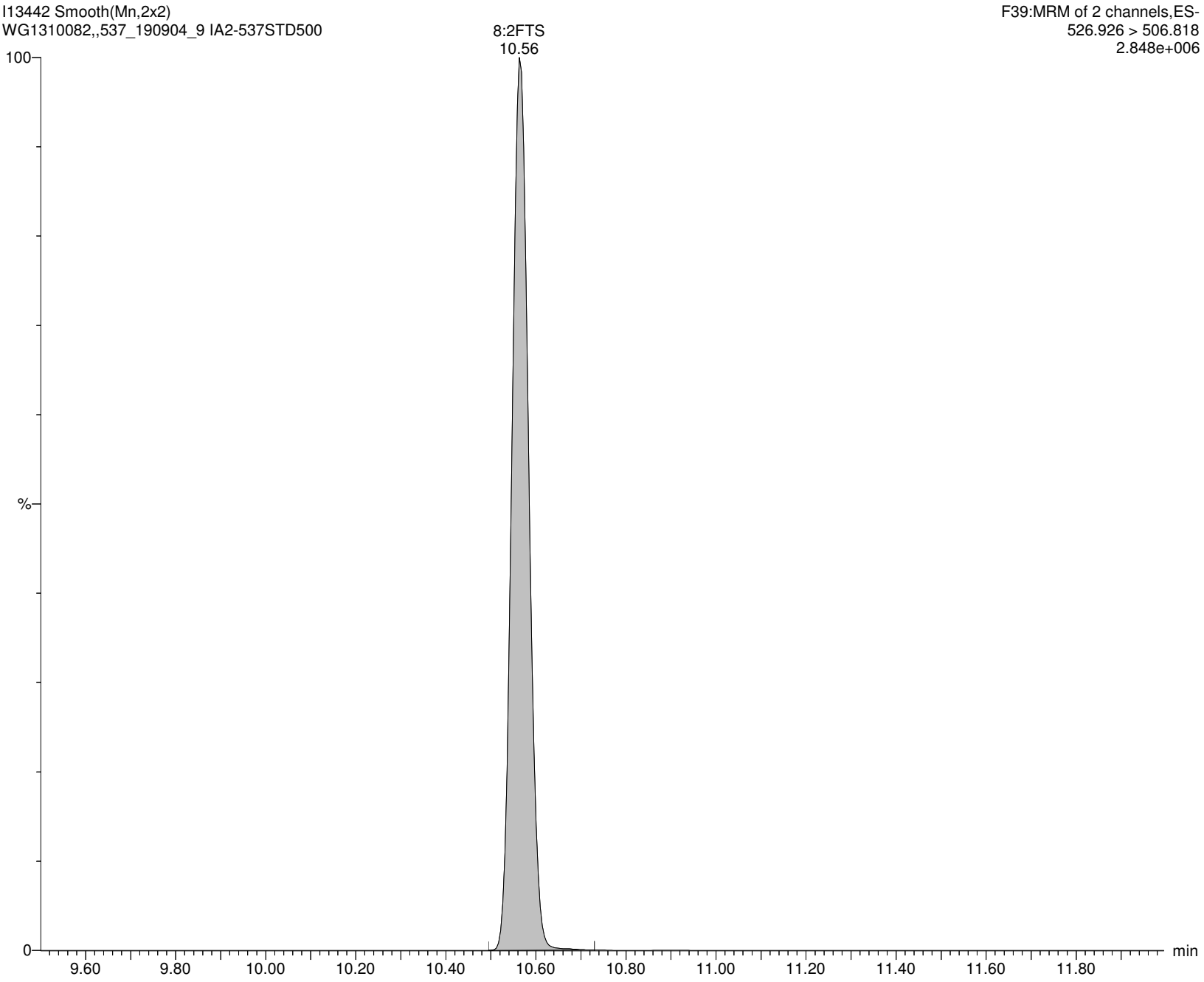

all concentration units in (ng/mL)

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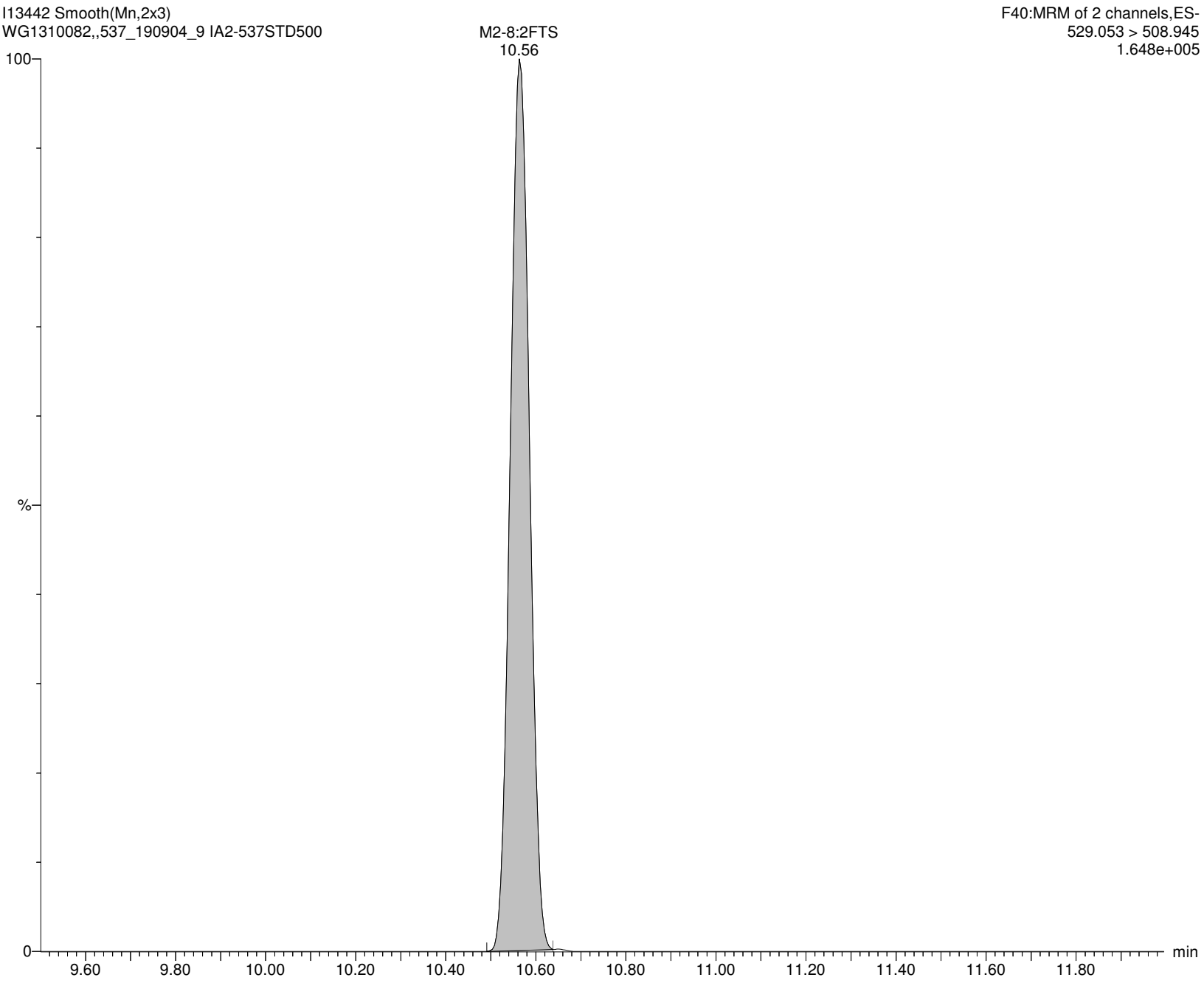

all concentration units in (ng/mL)

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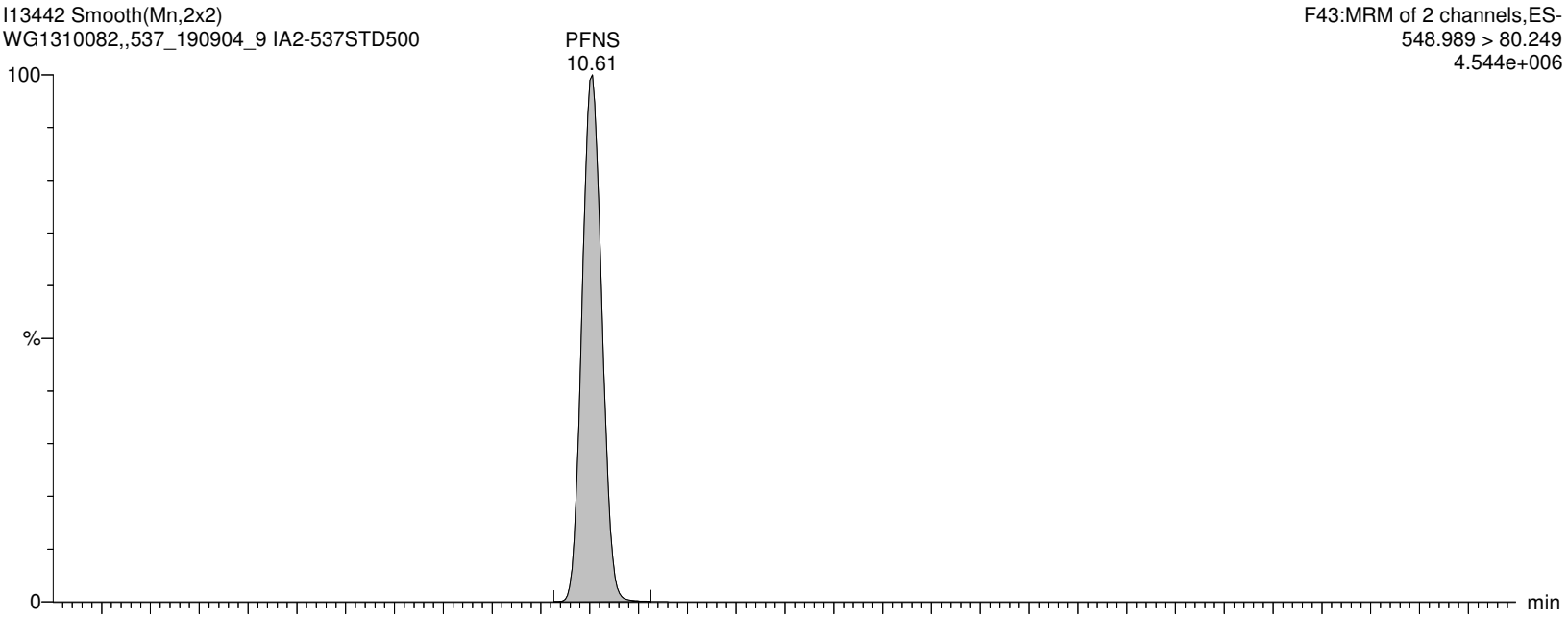

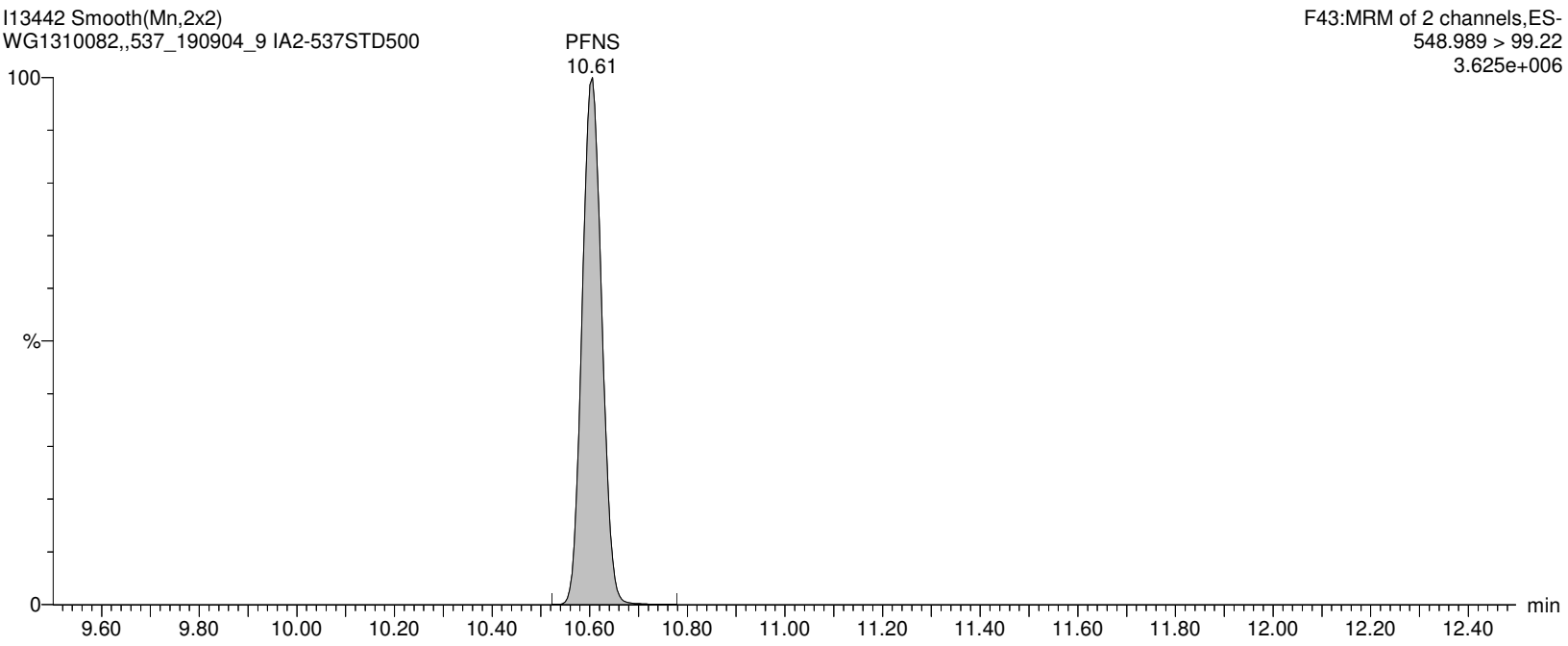

all concentration units in (ng/mL)

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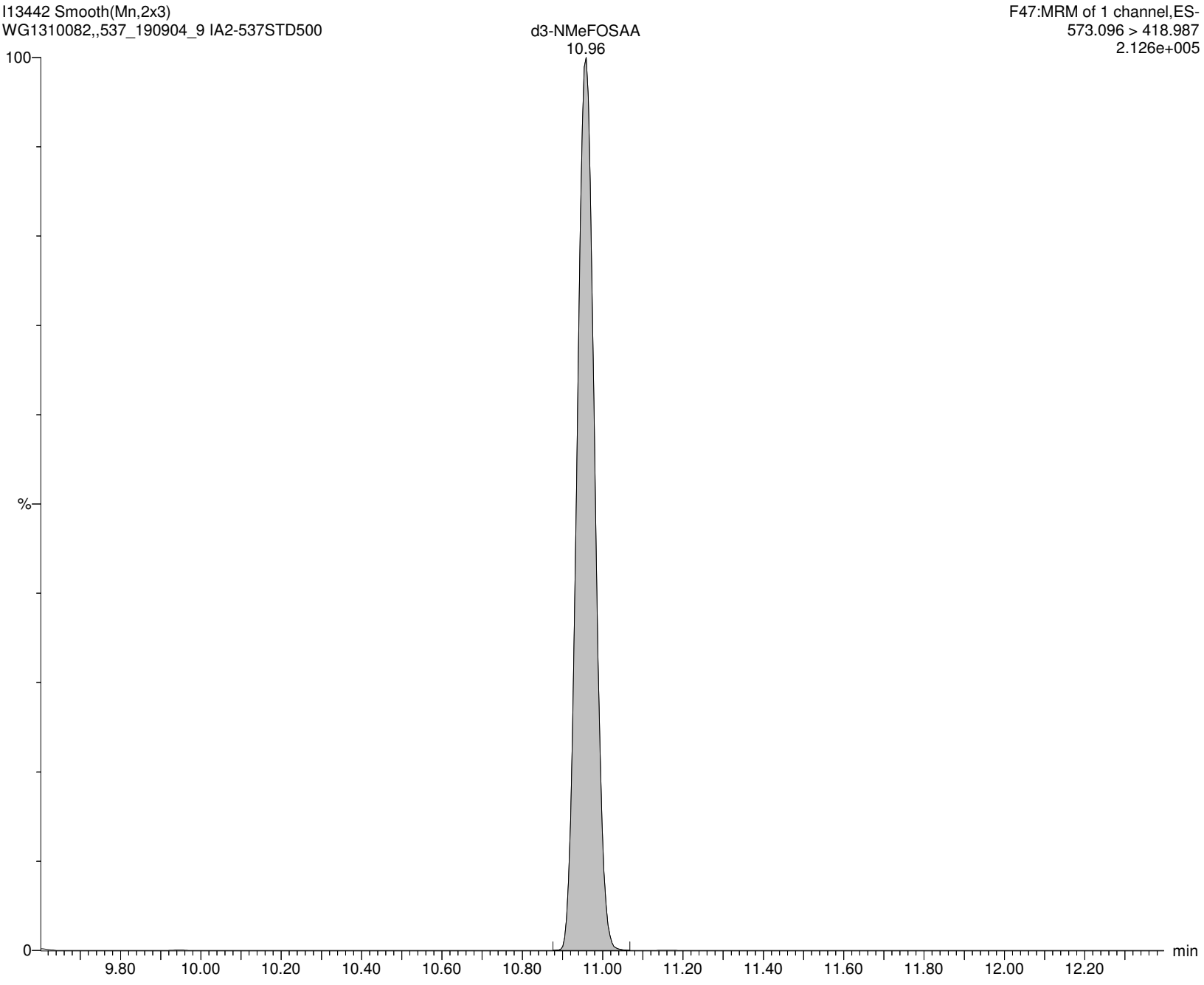
d3-NMeFOSAA



all concentration units in (ng/mL)

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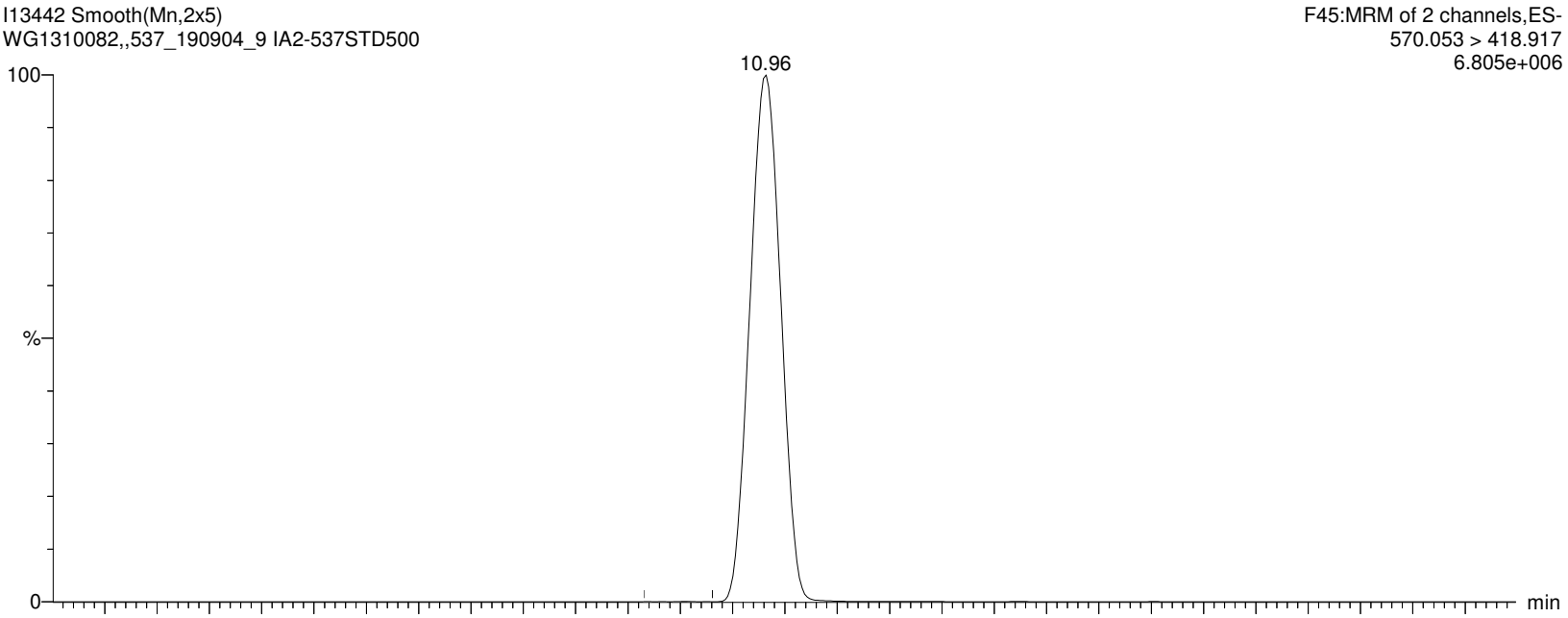
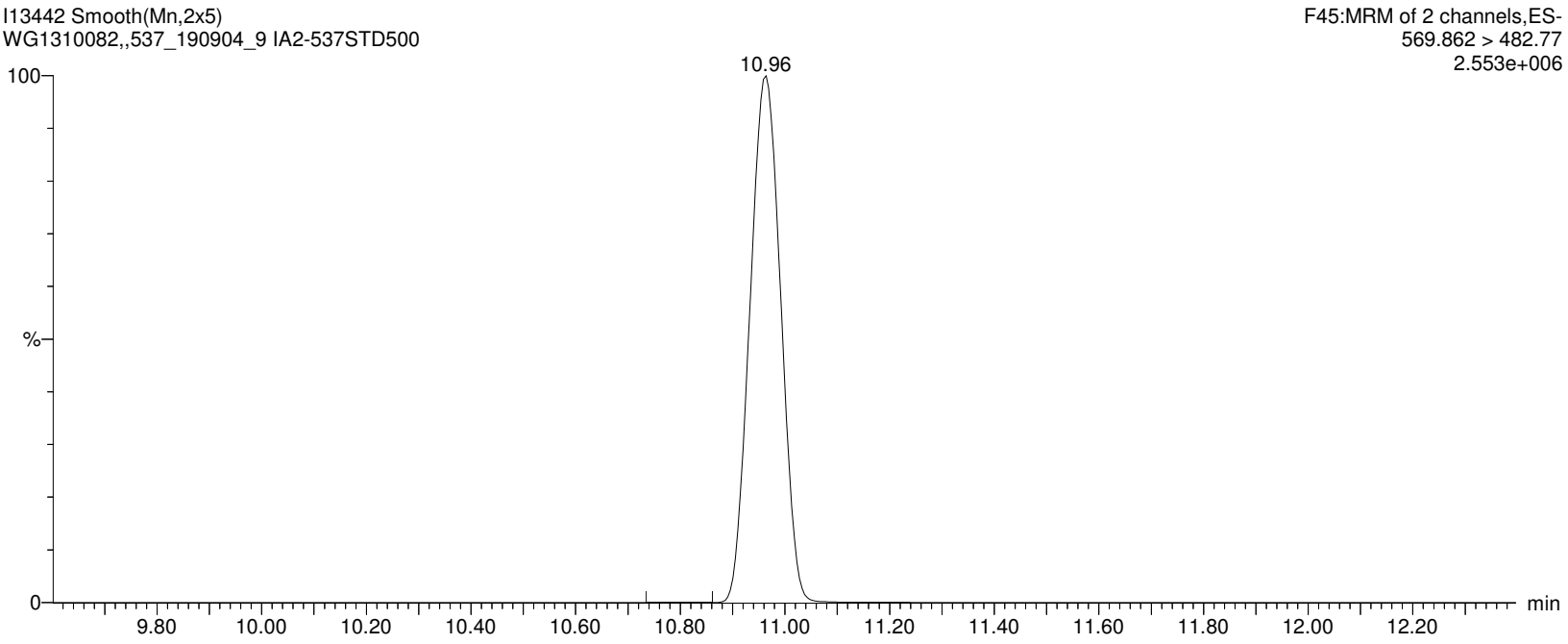
br-NMeFOSAA





all concentration units in (ng/mL)

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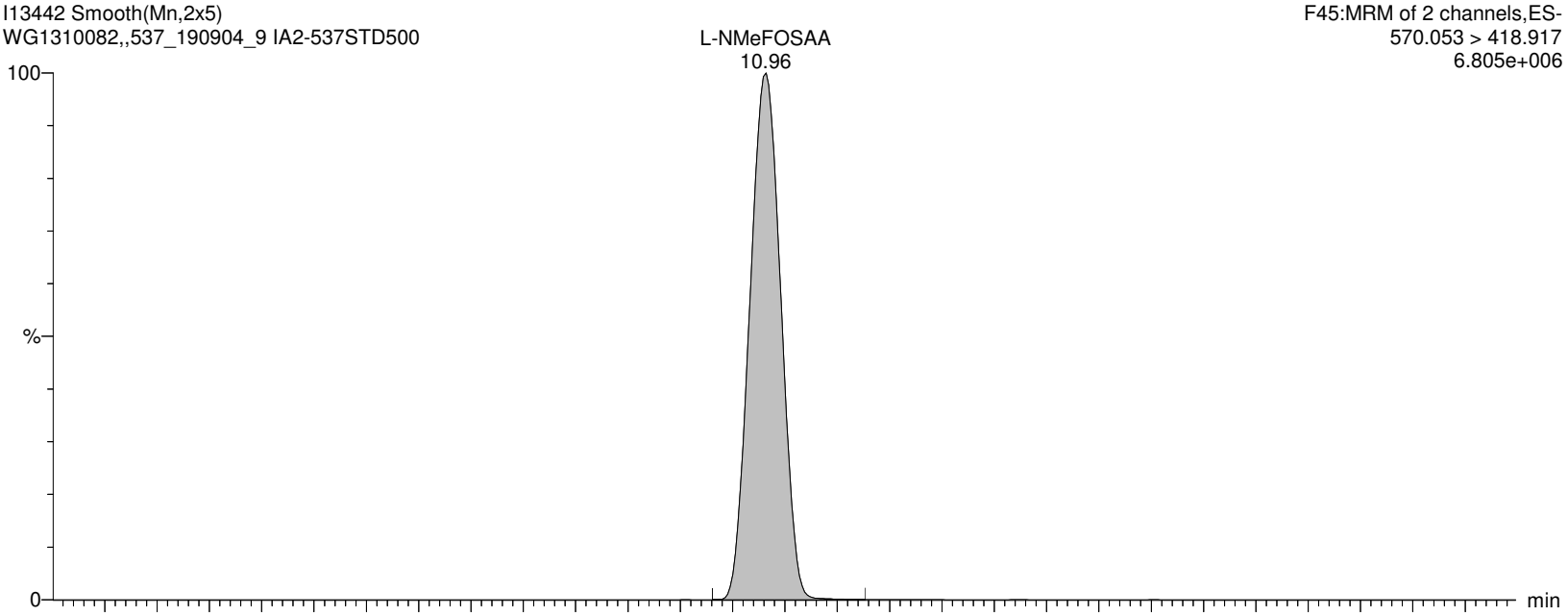
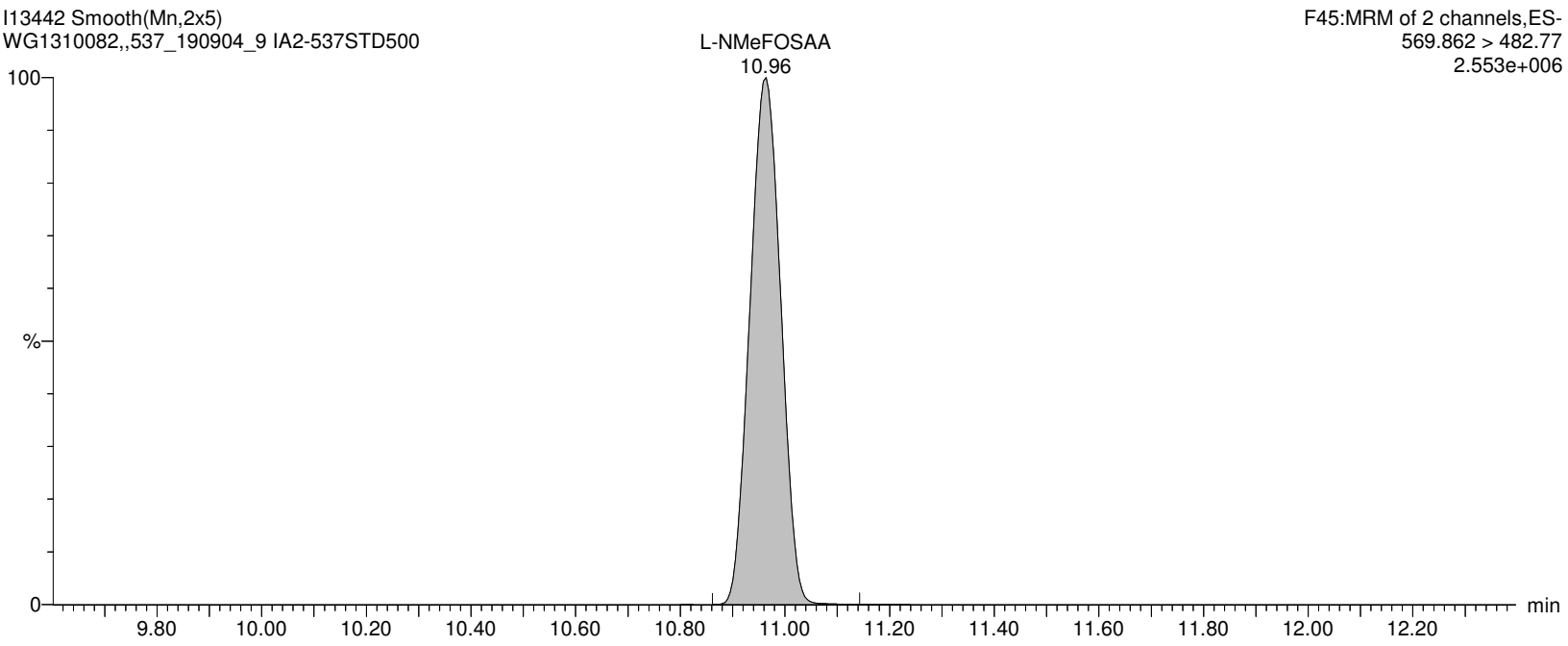
L-NMeFOSAA





all concentration units in (ng/mL)

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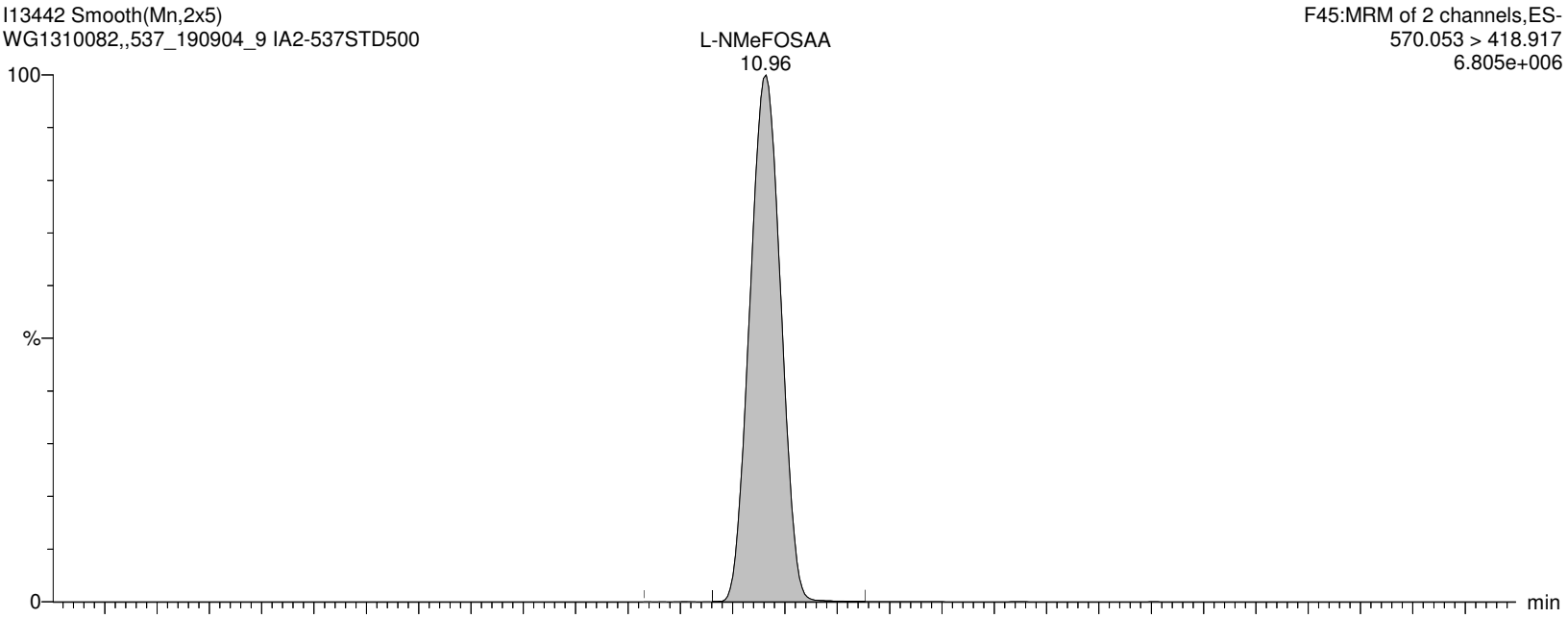

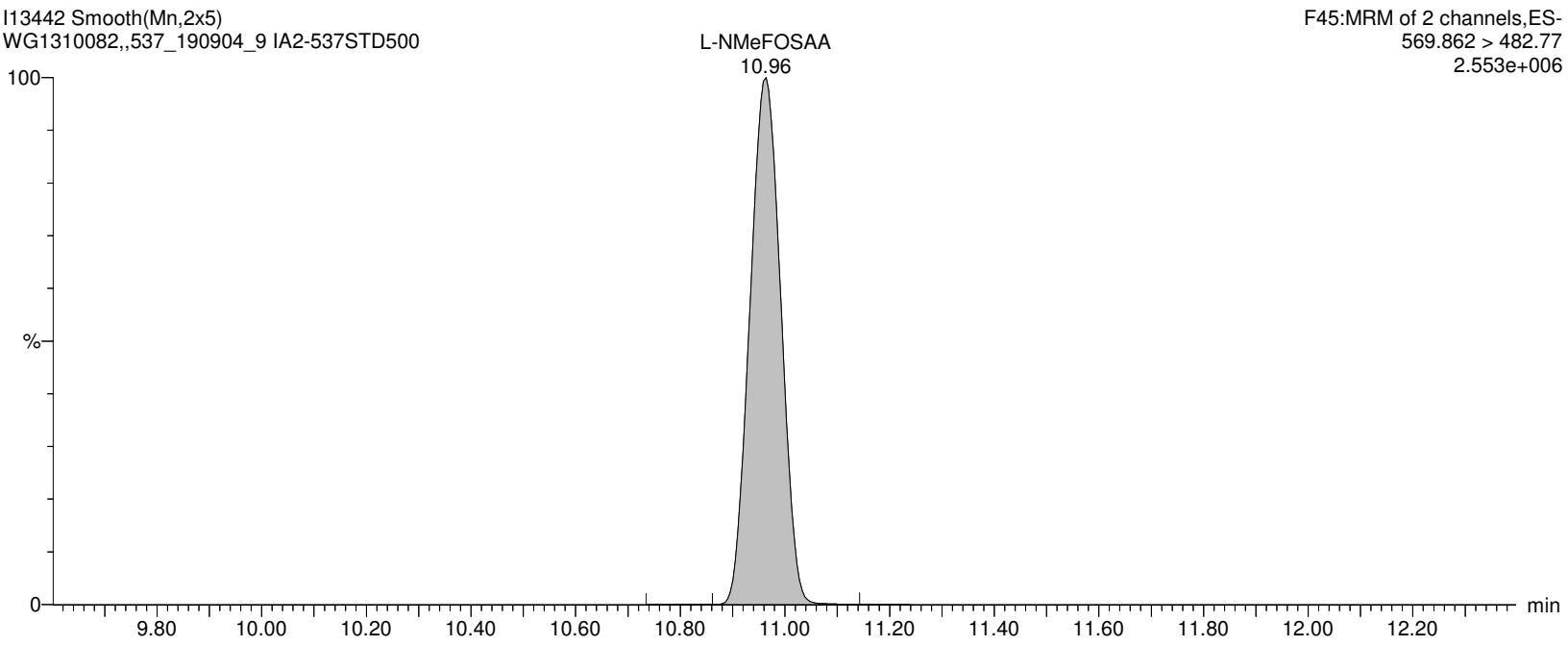

all concentration units in (ng/mL)

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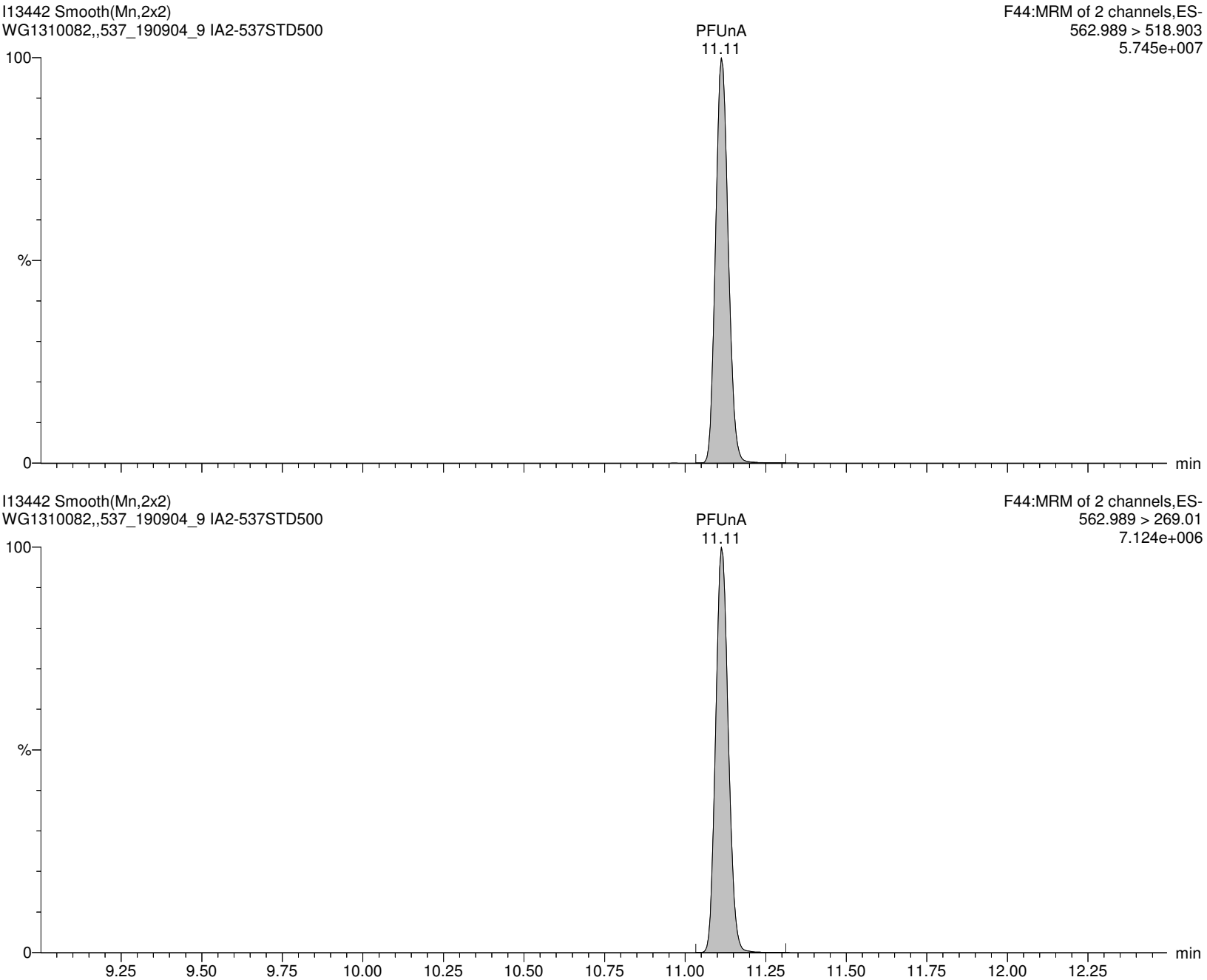

all concentration units in (ng/mL)

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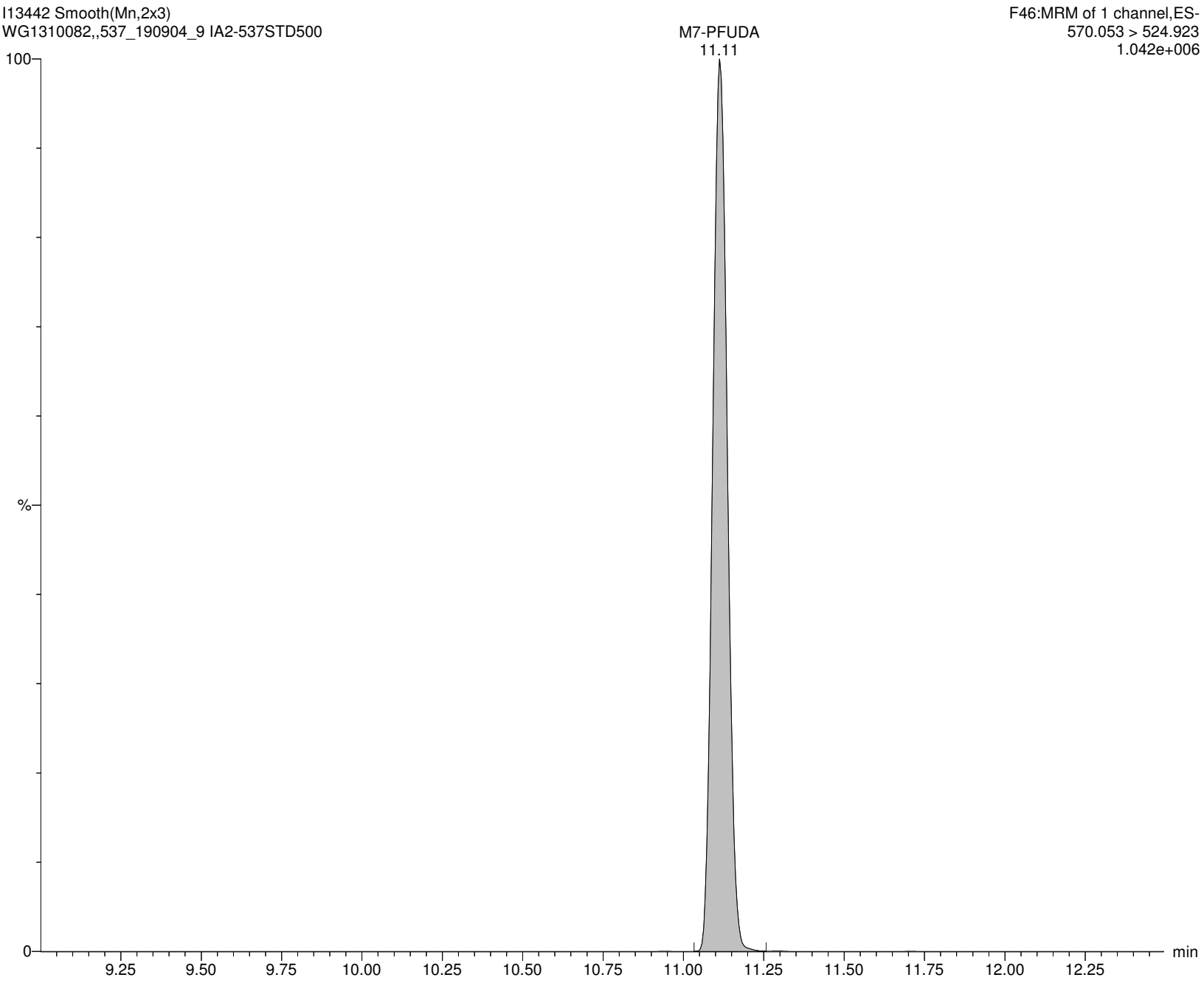
M7-PFUDA



all concentration units in (ng/mL)

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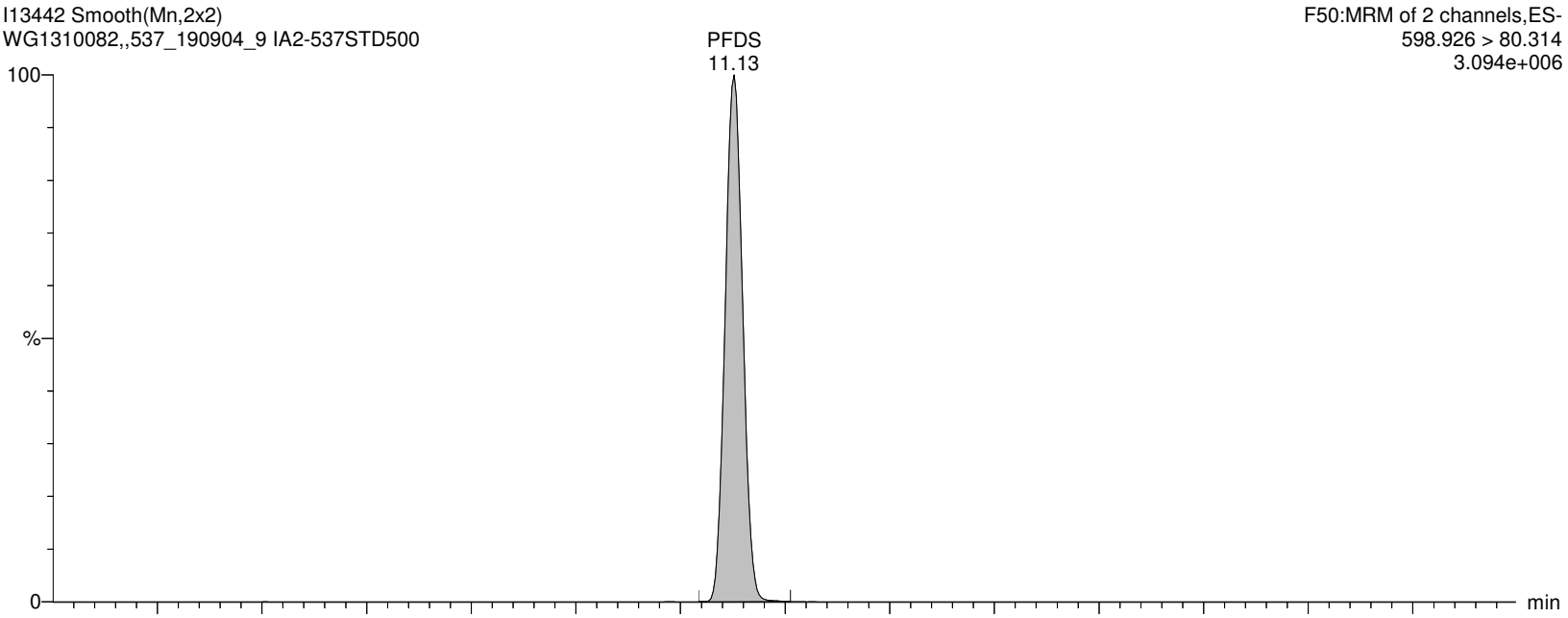

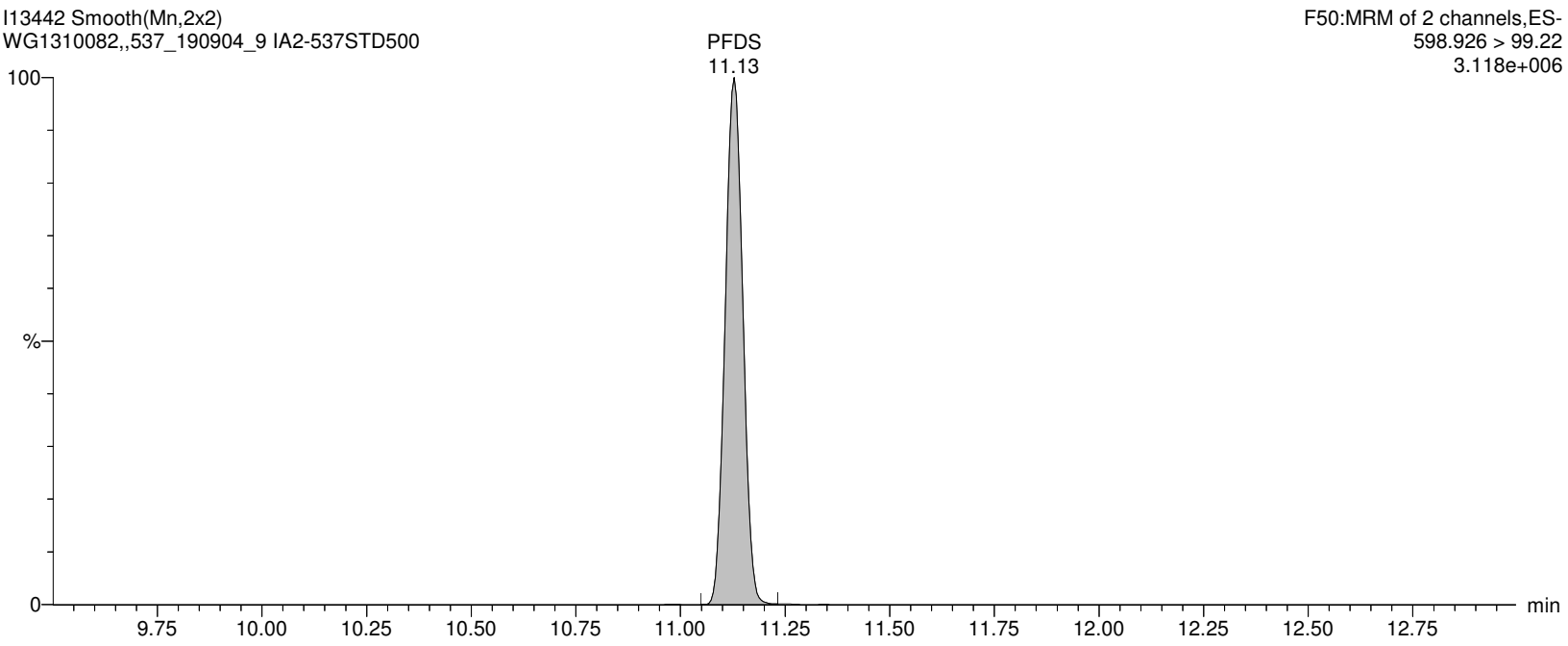

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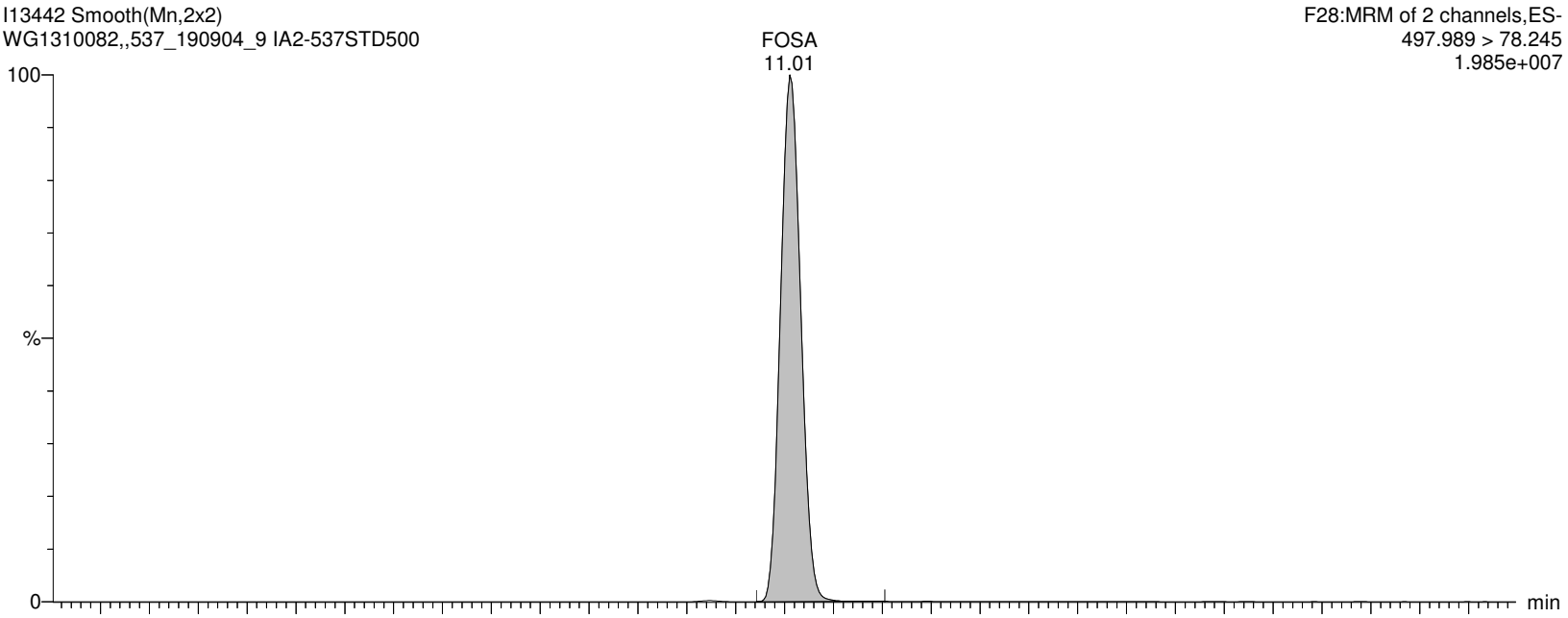

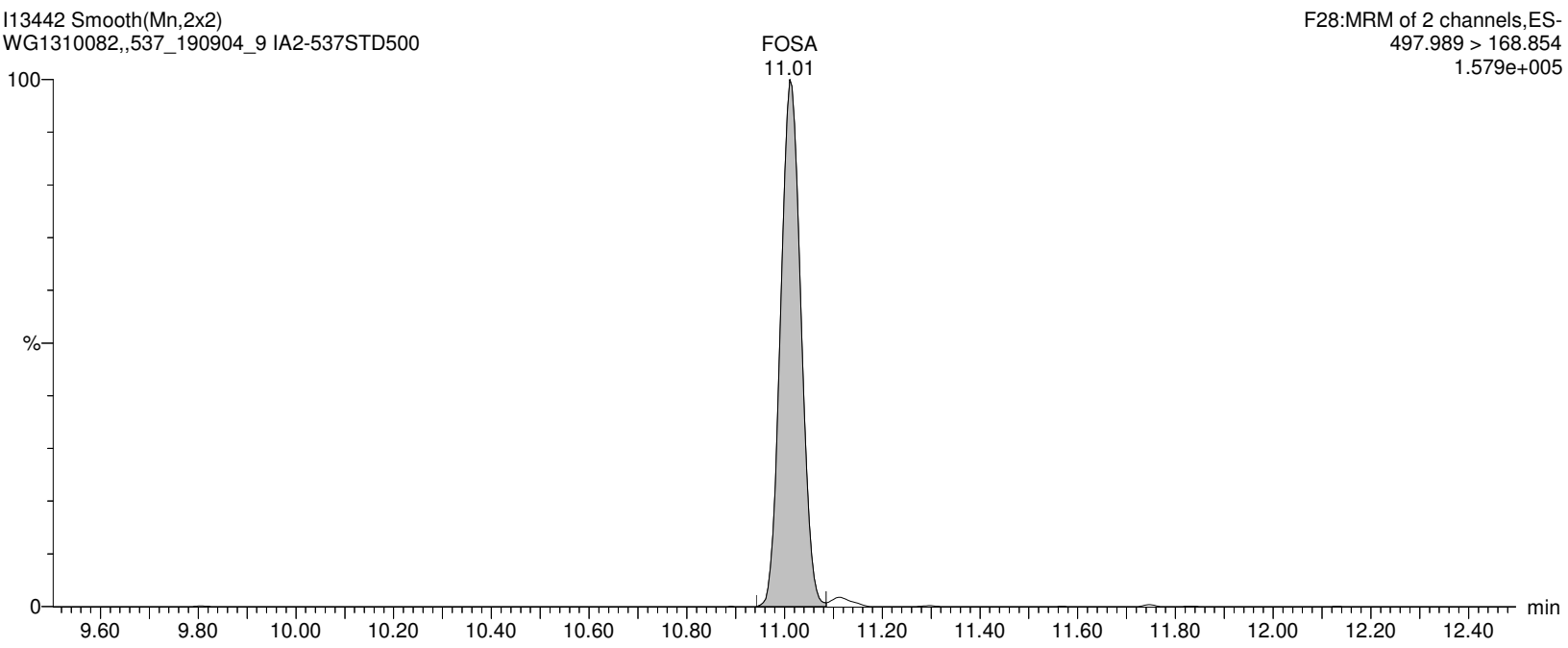

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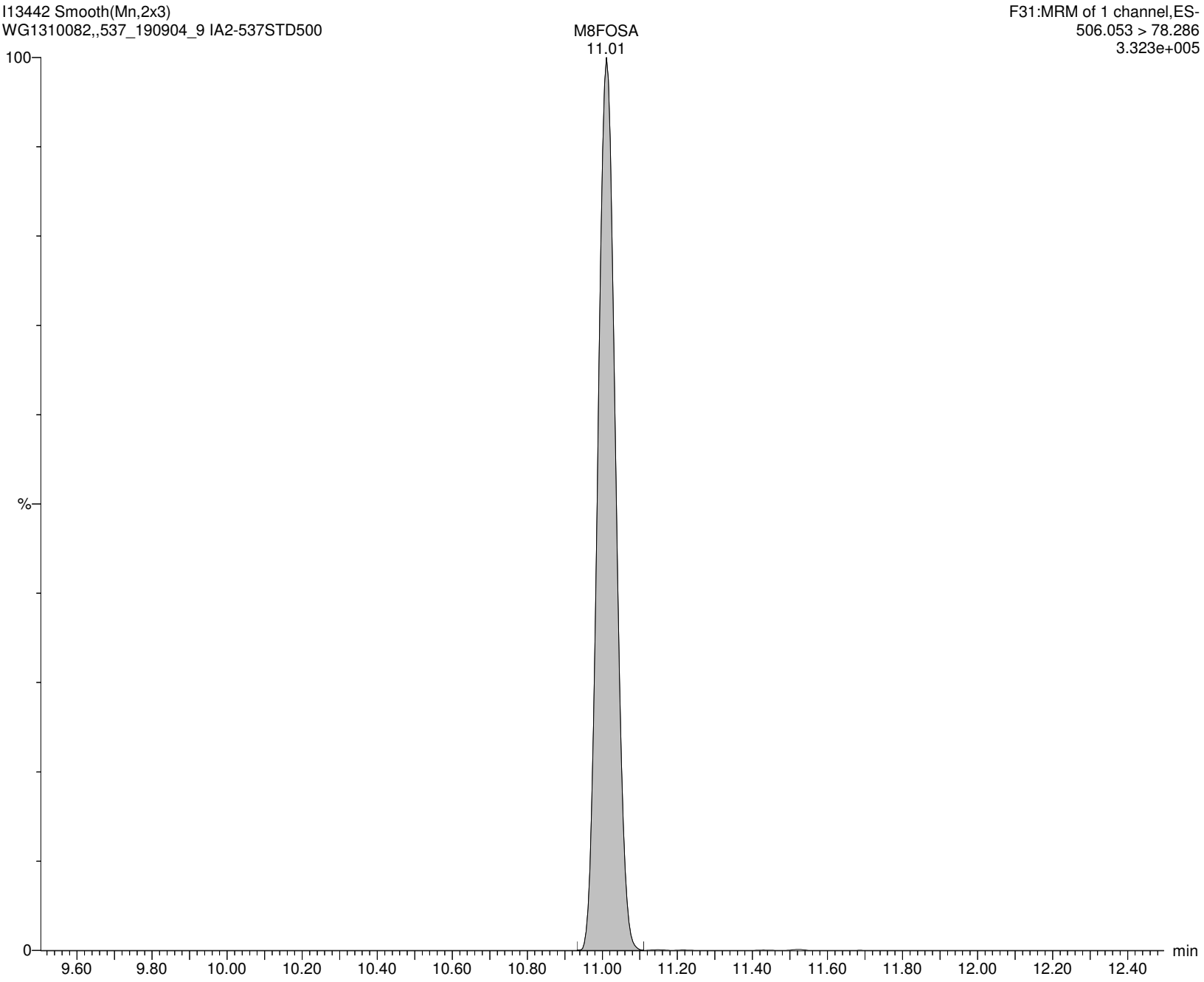

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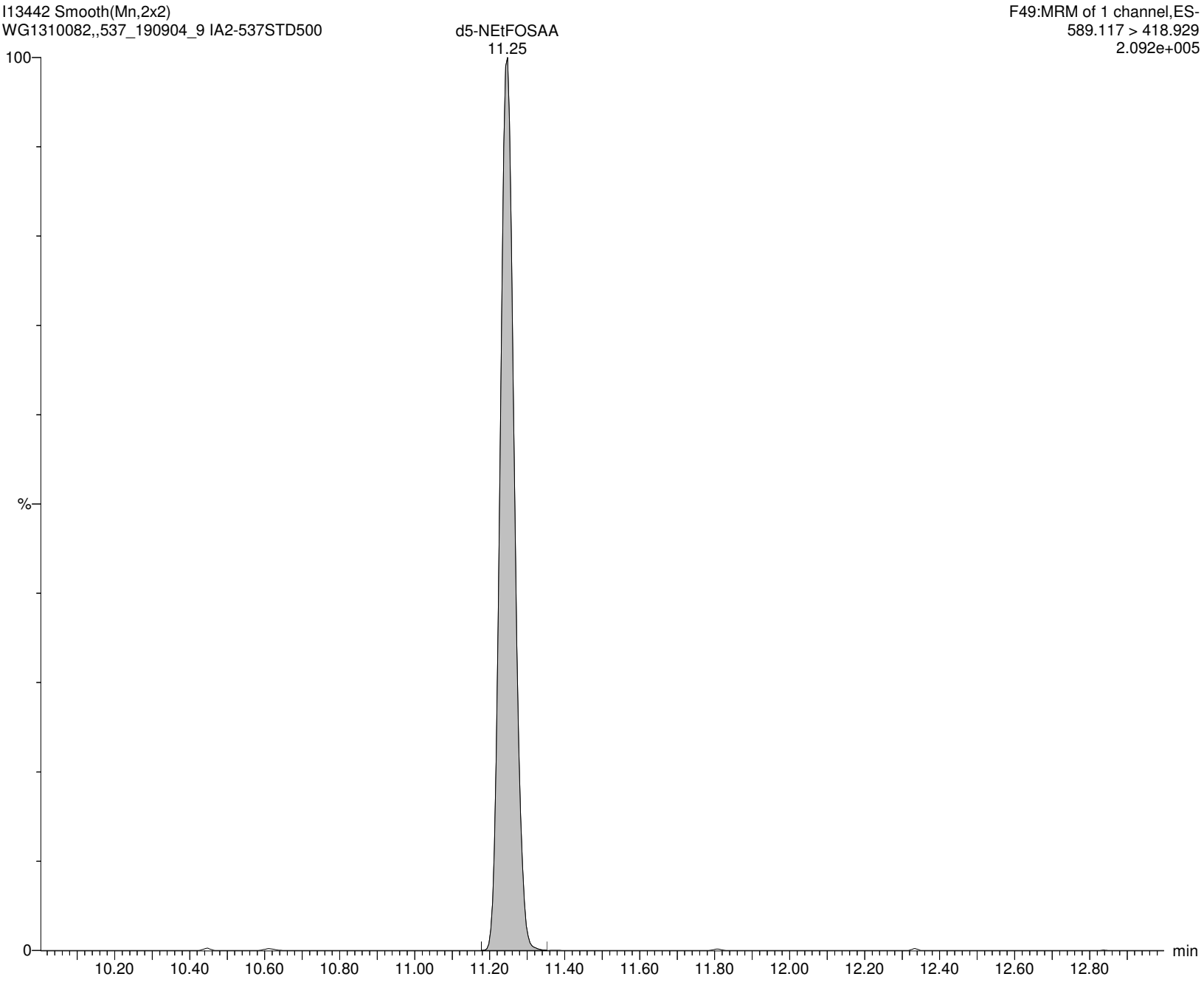
d5-NEtFOSAA



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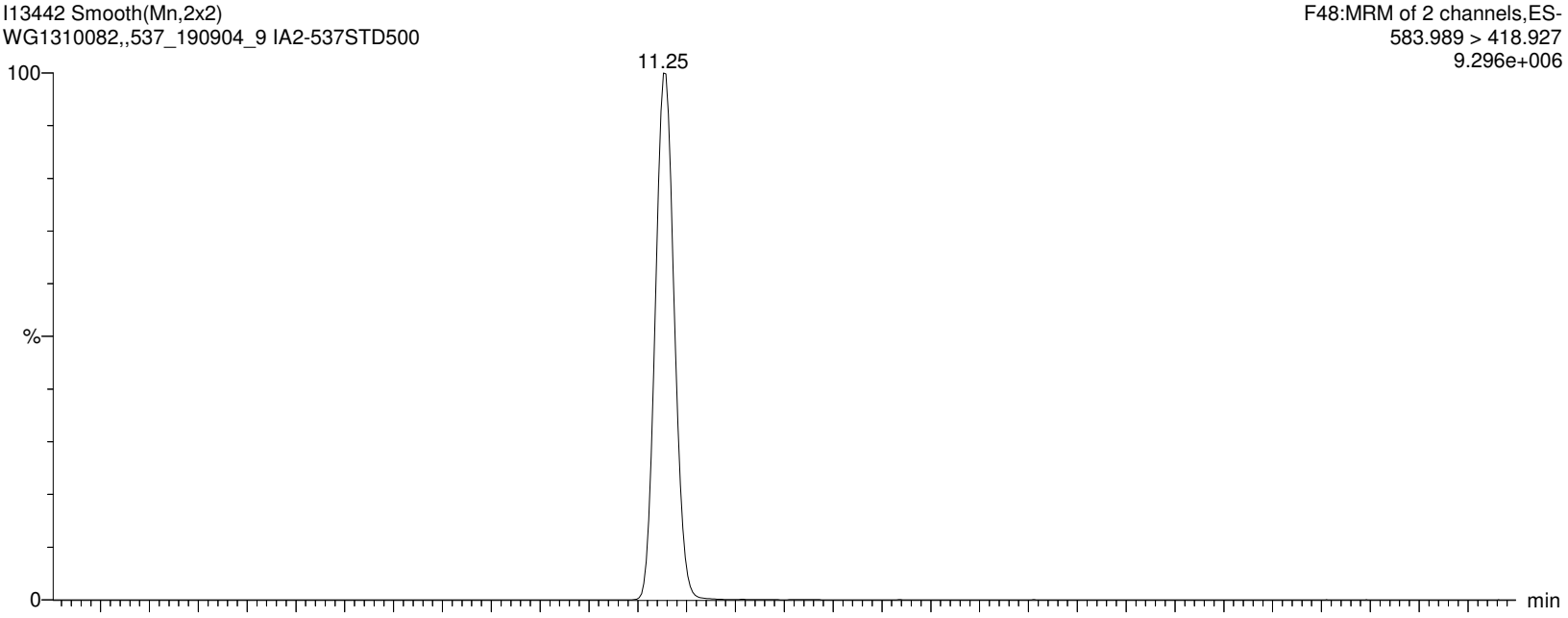

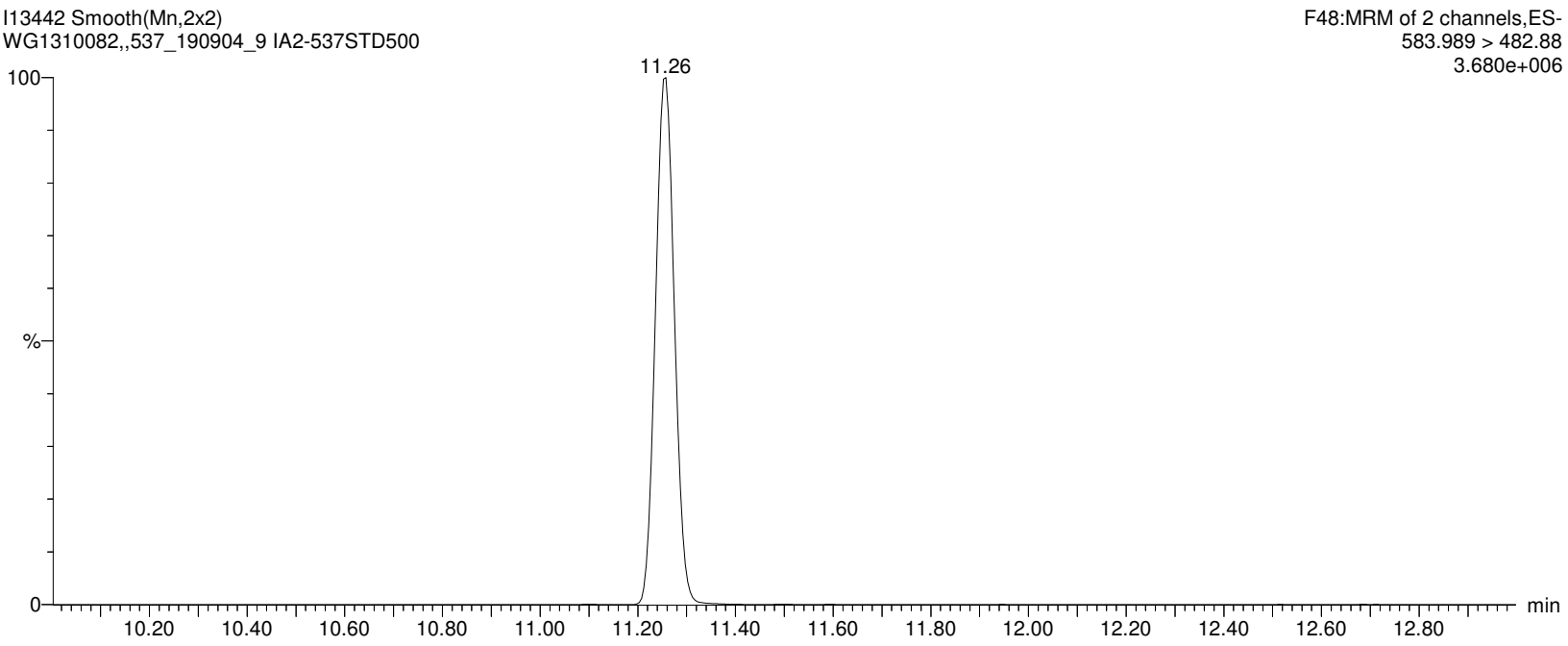

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:05 Eastern Standard Time

Name: I13442
ID: IA2-537STD500
Date: 18-Nov-2019
Time: 12:49:53
Description: WG1310082,,537_190904_9
User: LCMS02:JW
Vial: 1:B,2
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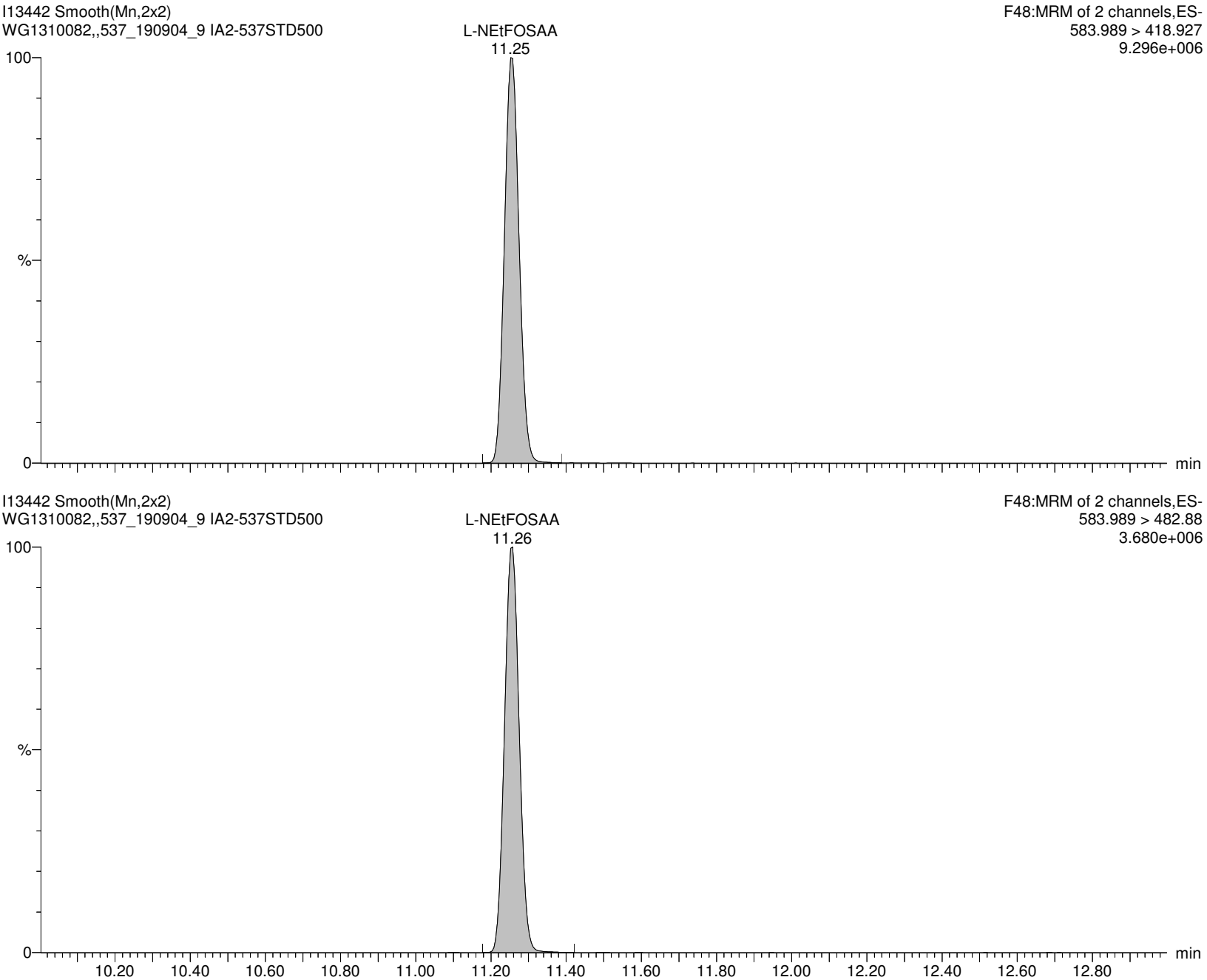

all concentration units in (ng/mL)

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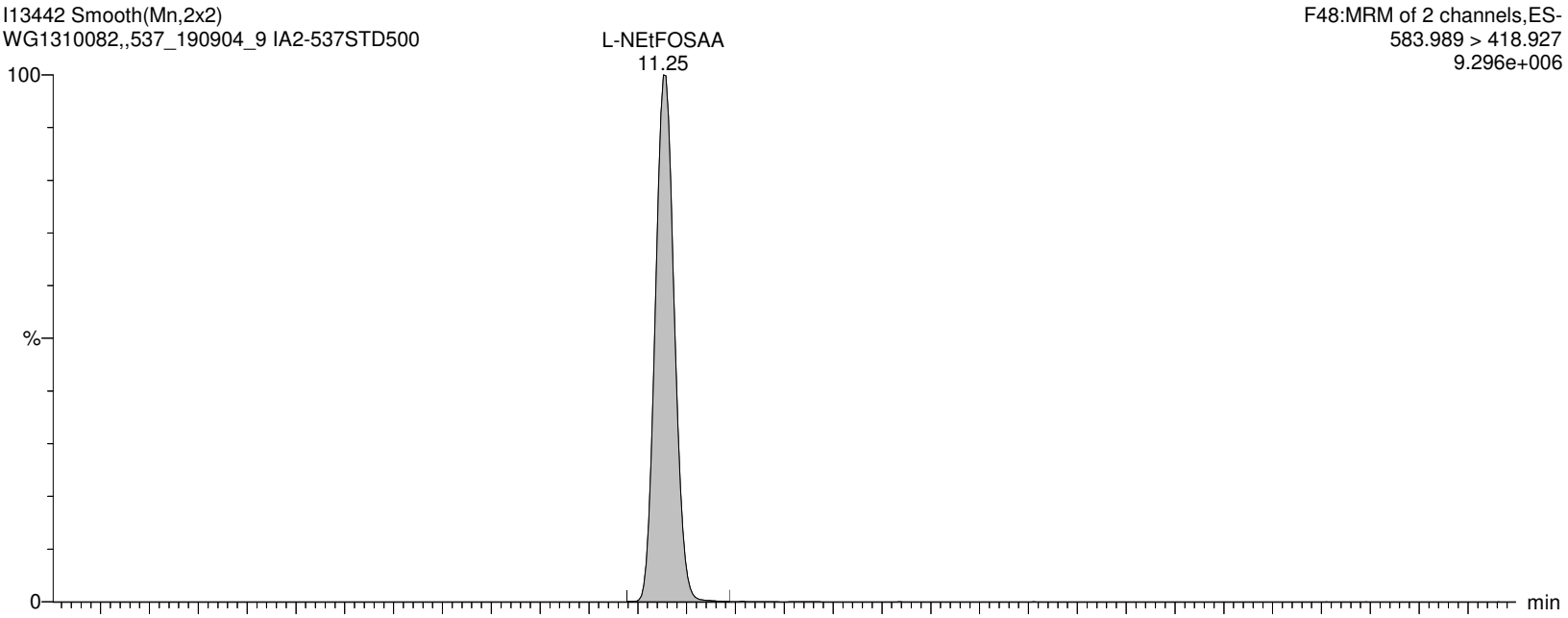

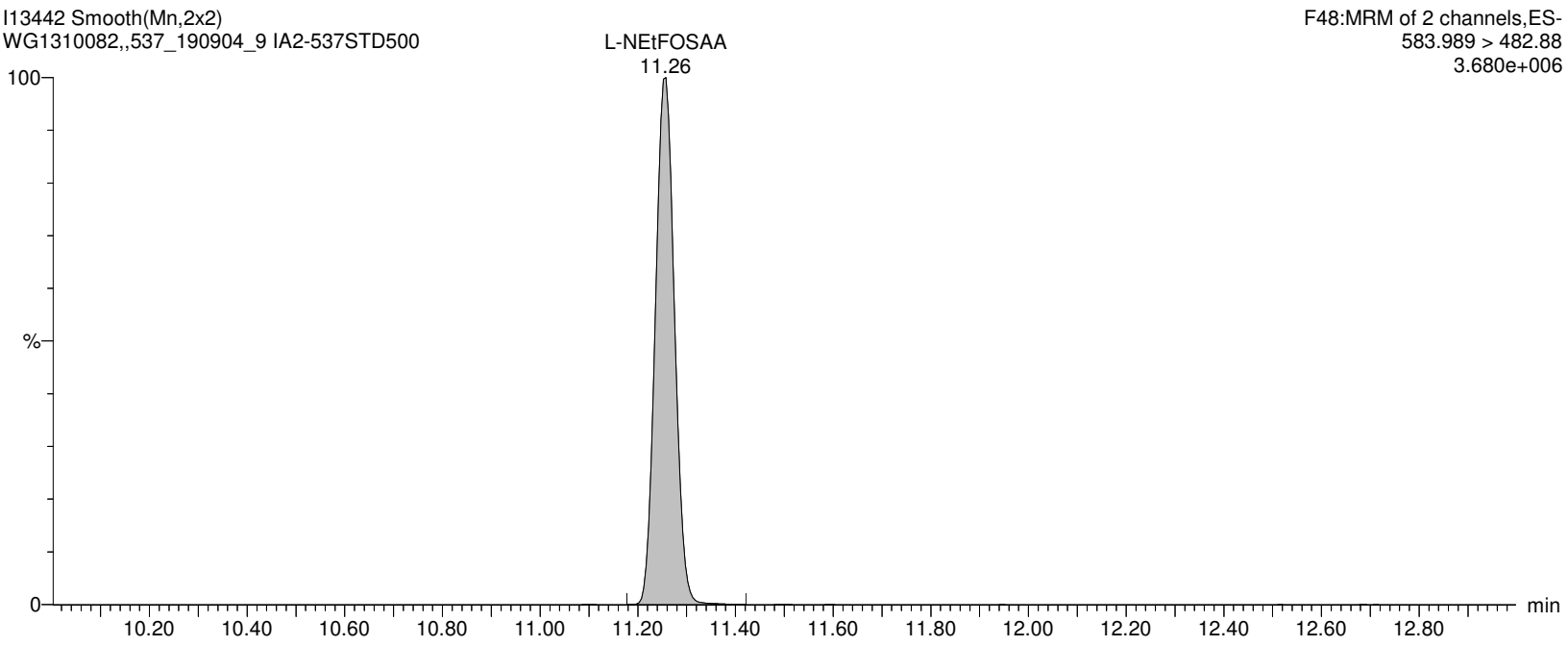

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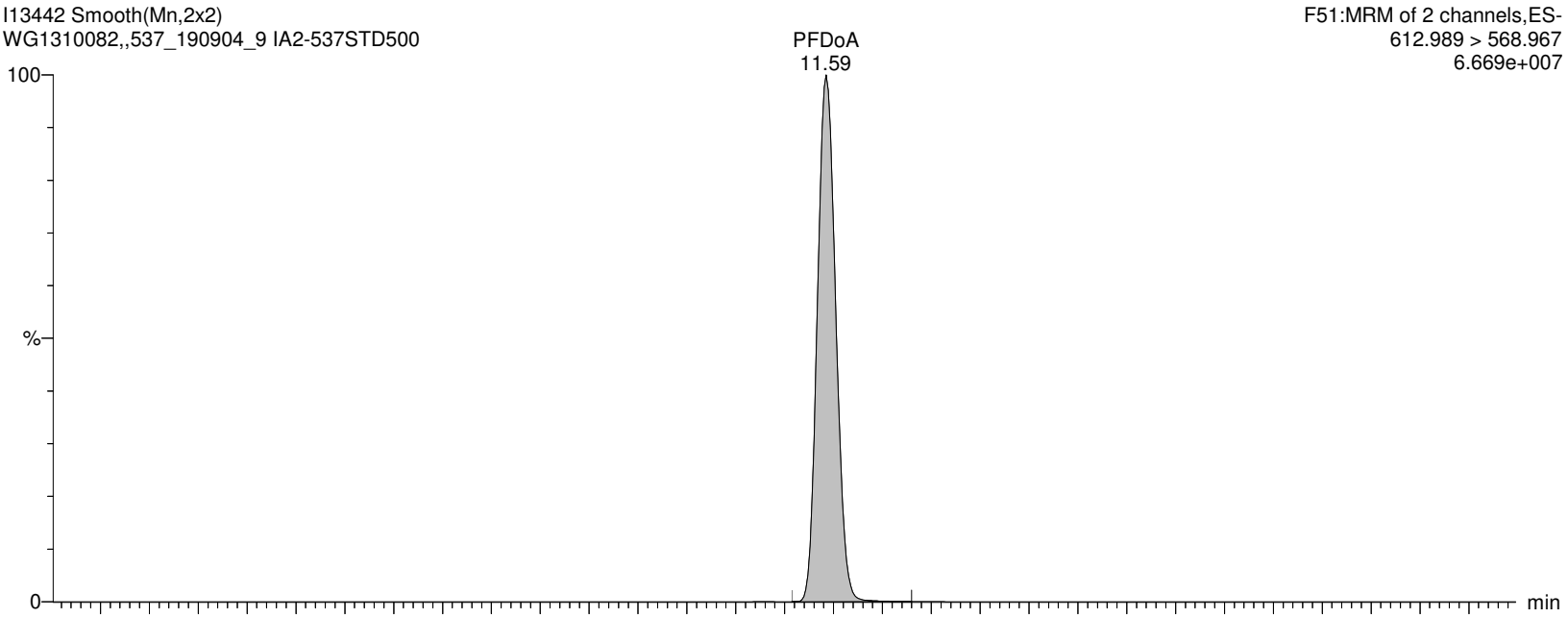

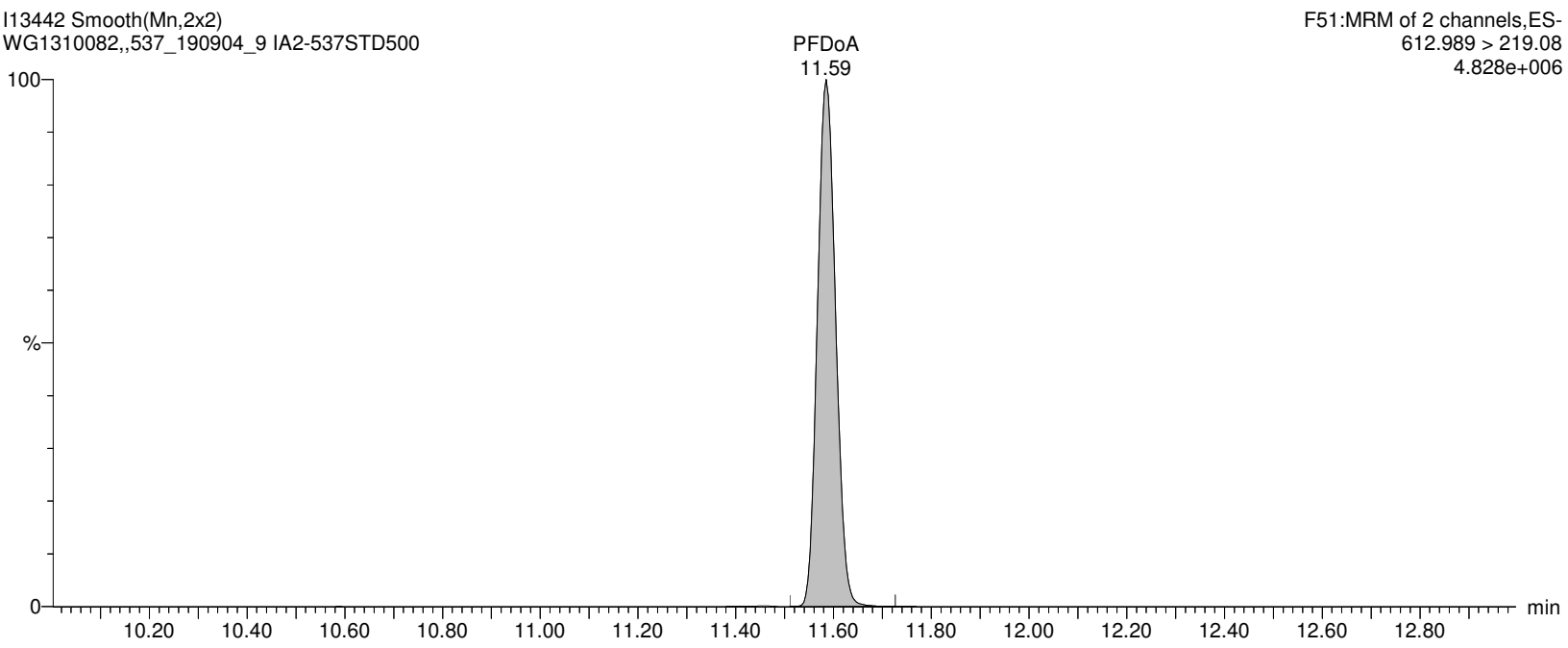

all concentration units in (ng/mL)

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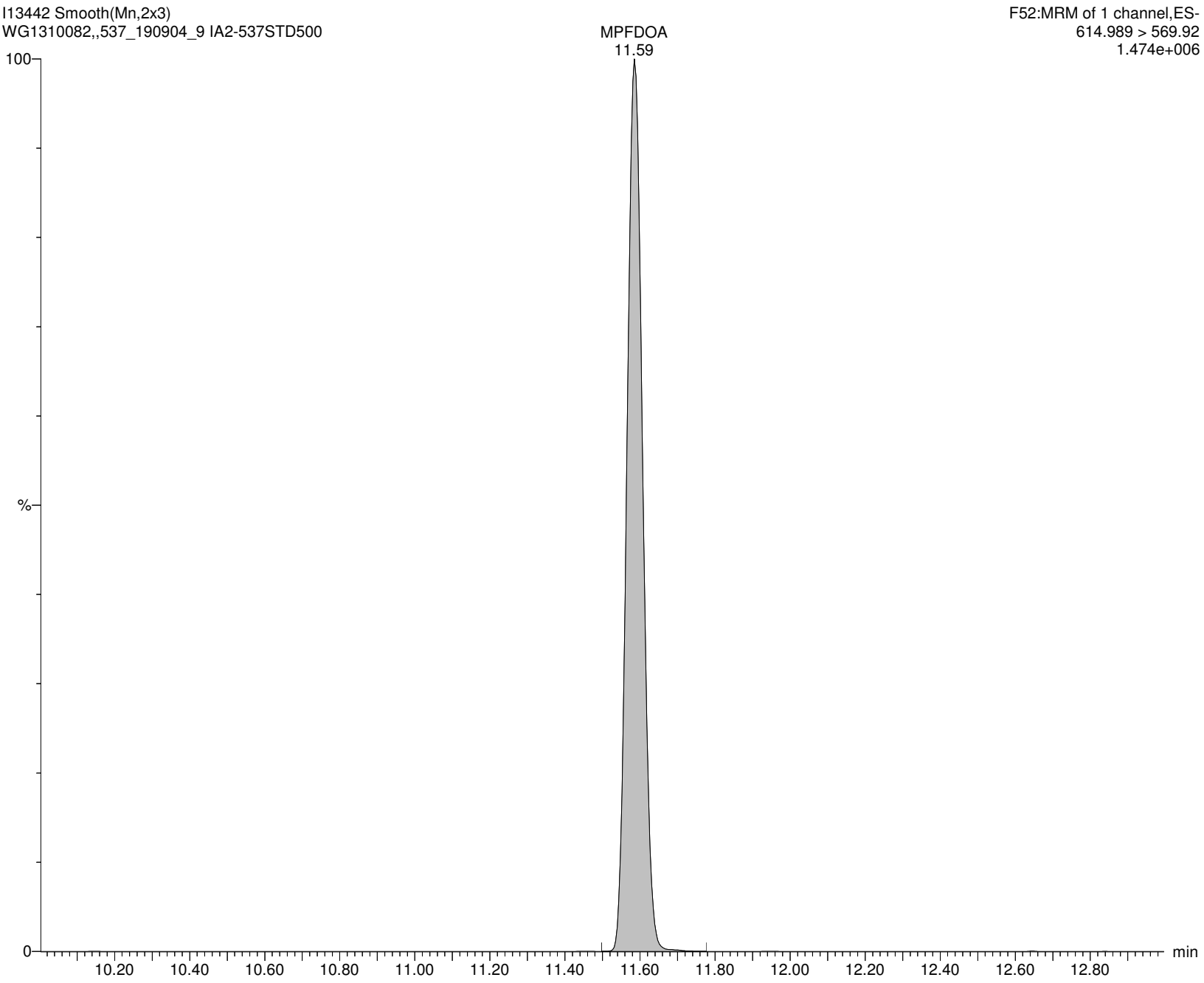

all concentration units in (ng/mL)

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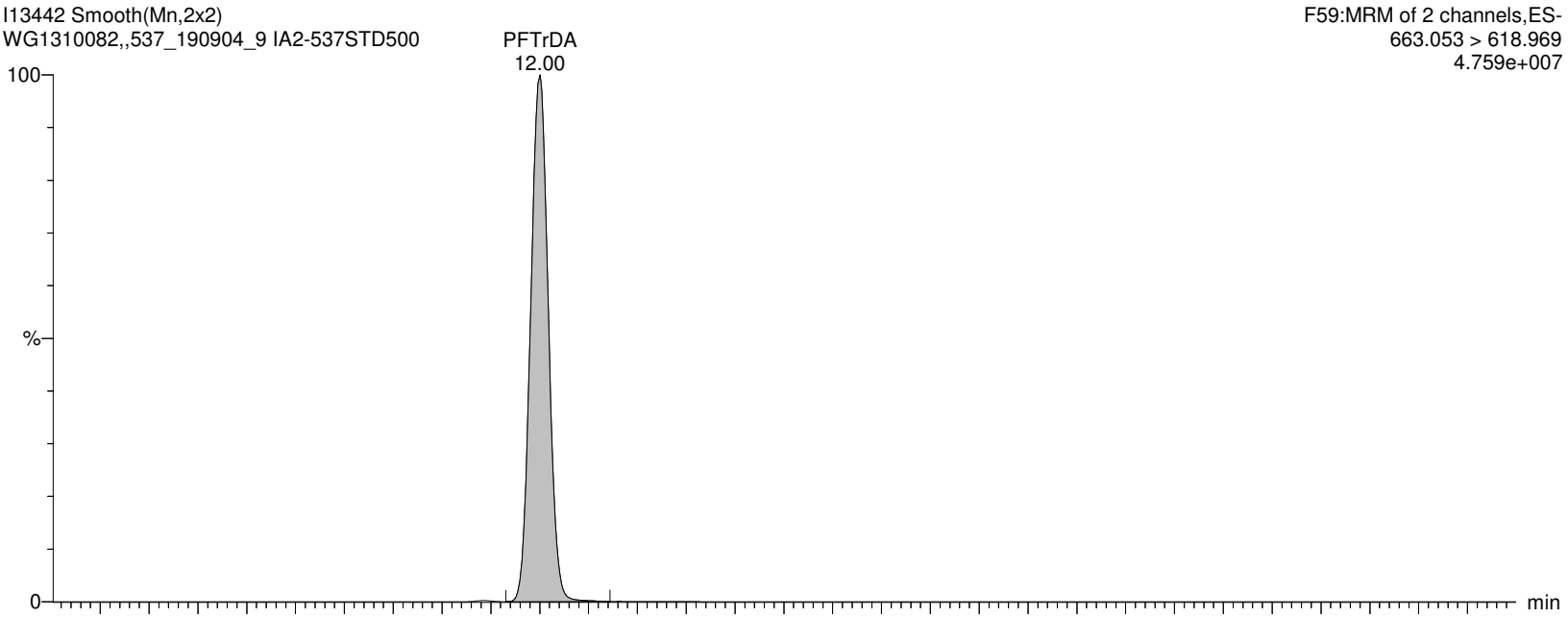

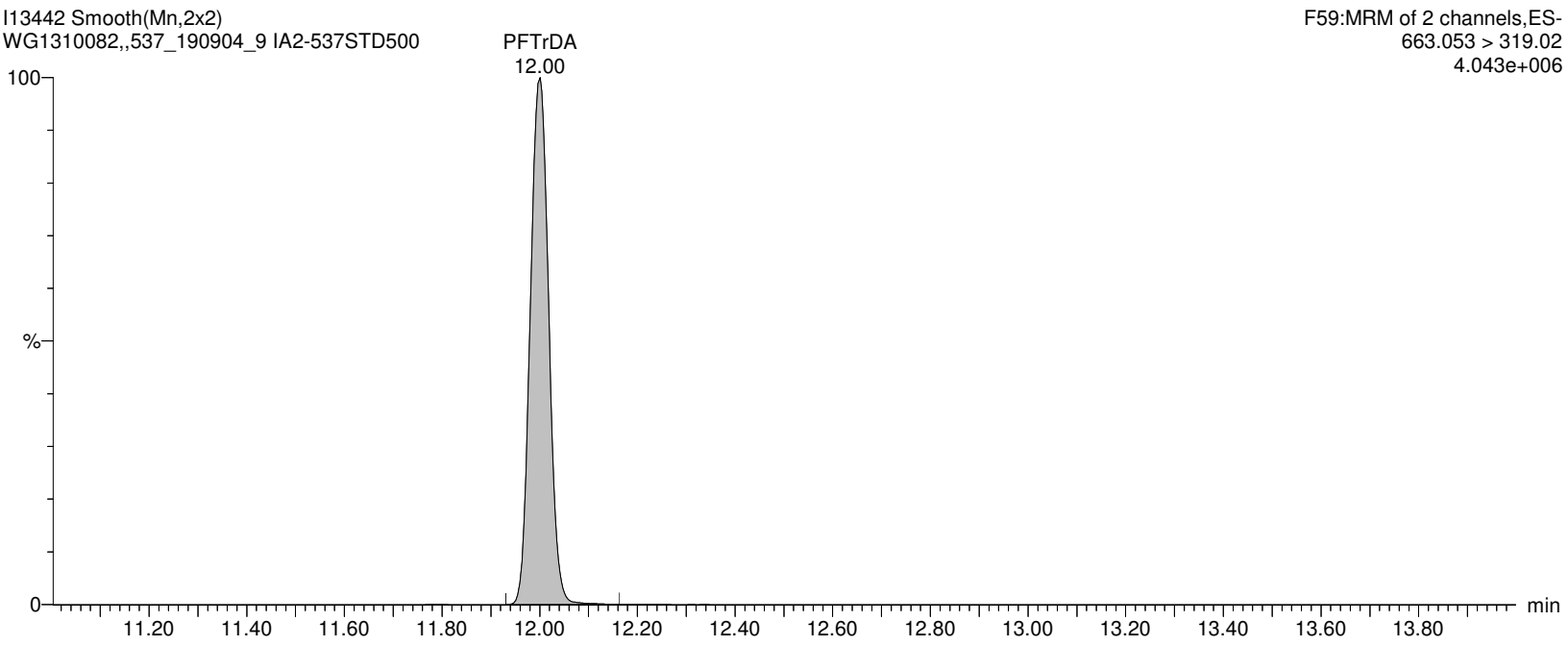

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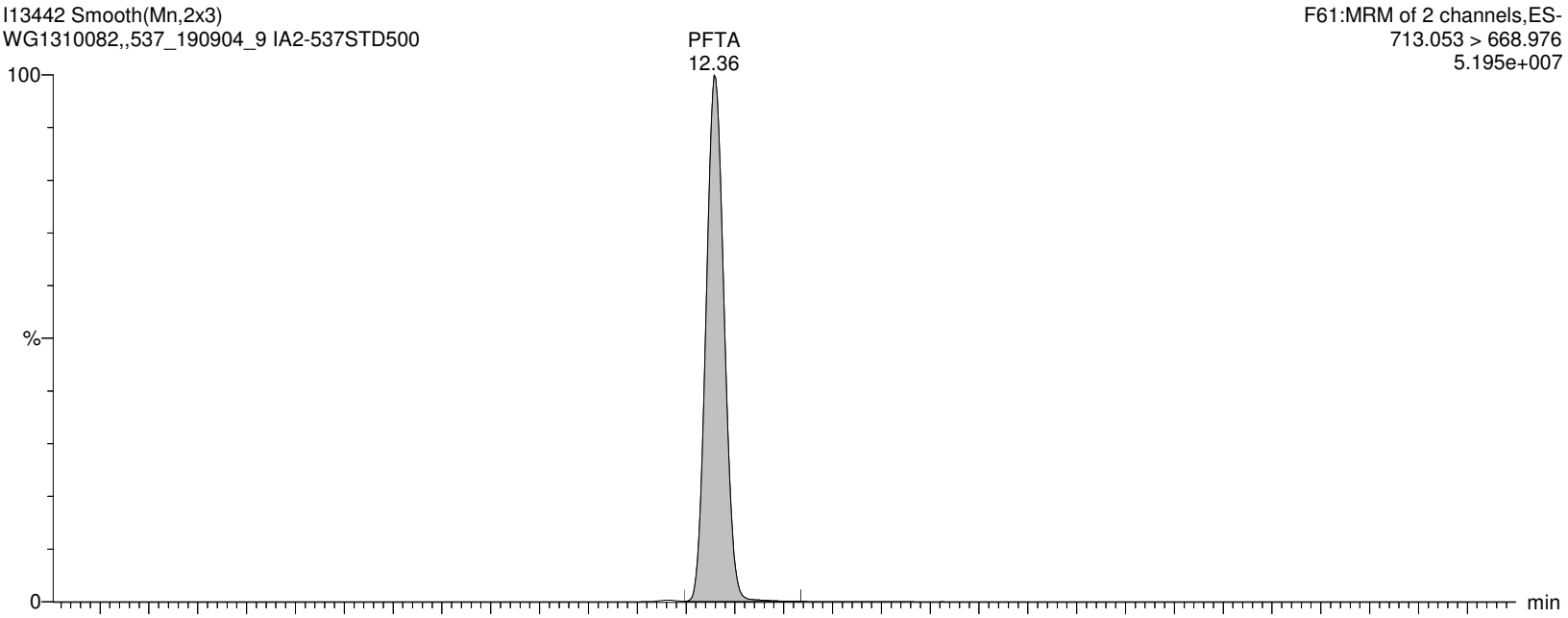

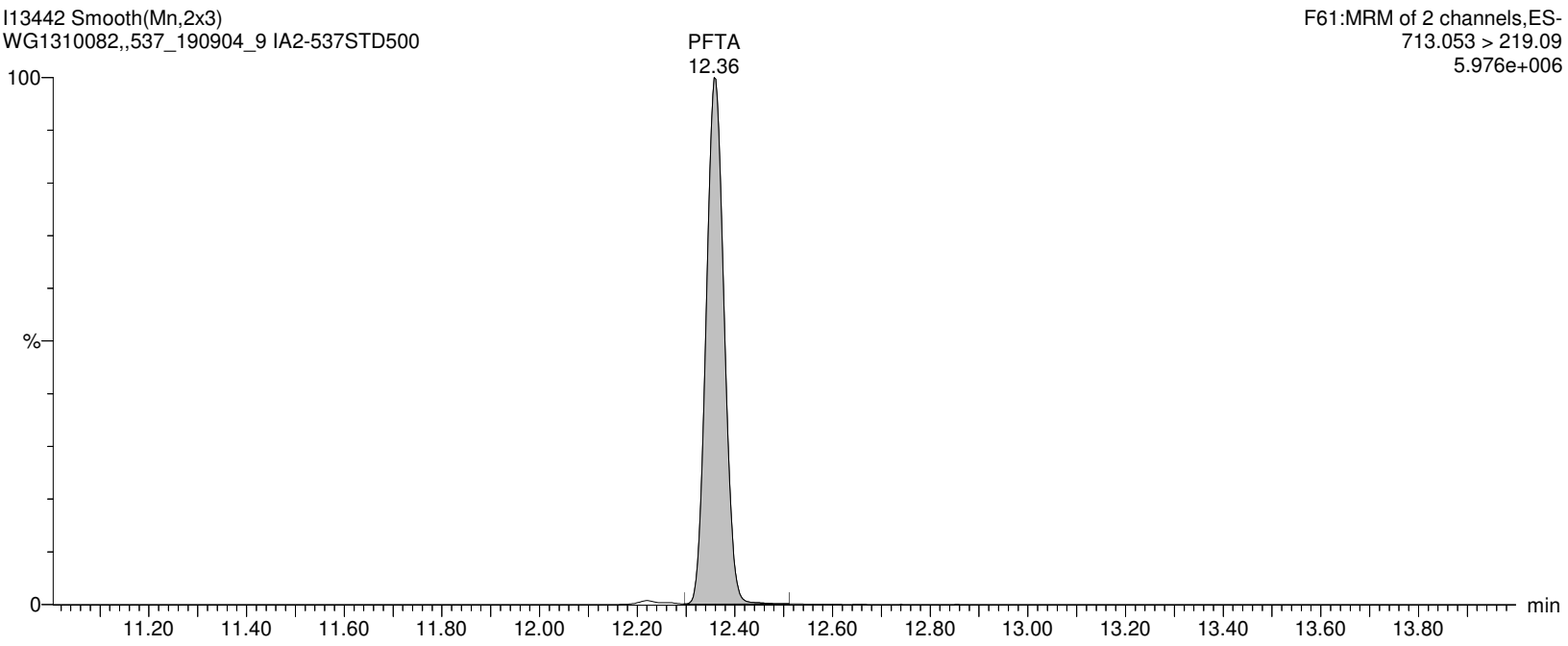

all concentration units in (ng/mL)

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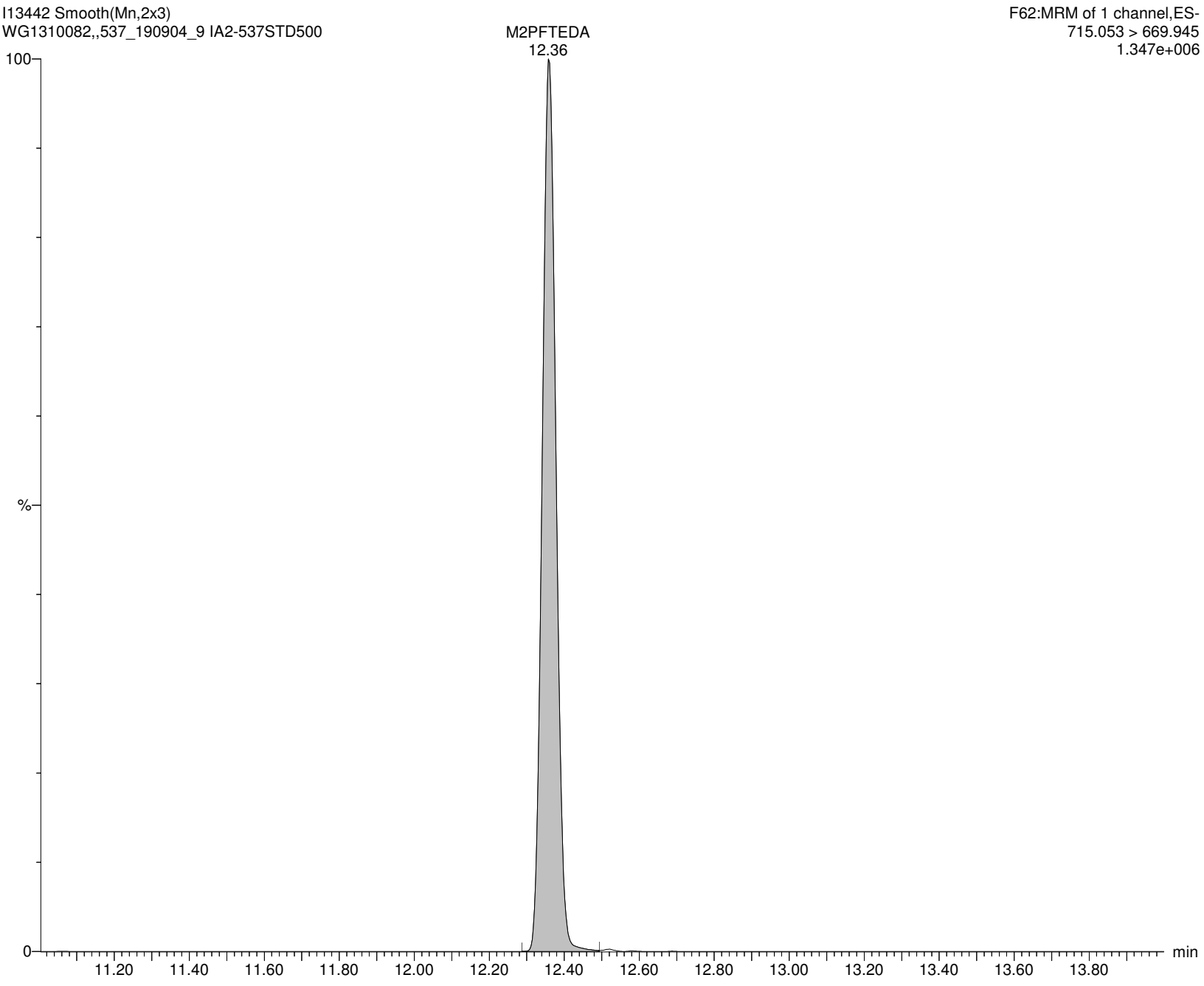

all concentration units in (ng/mL)

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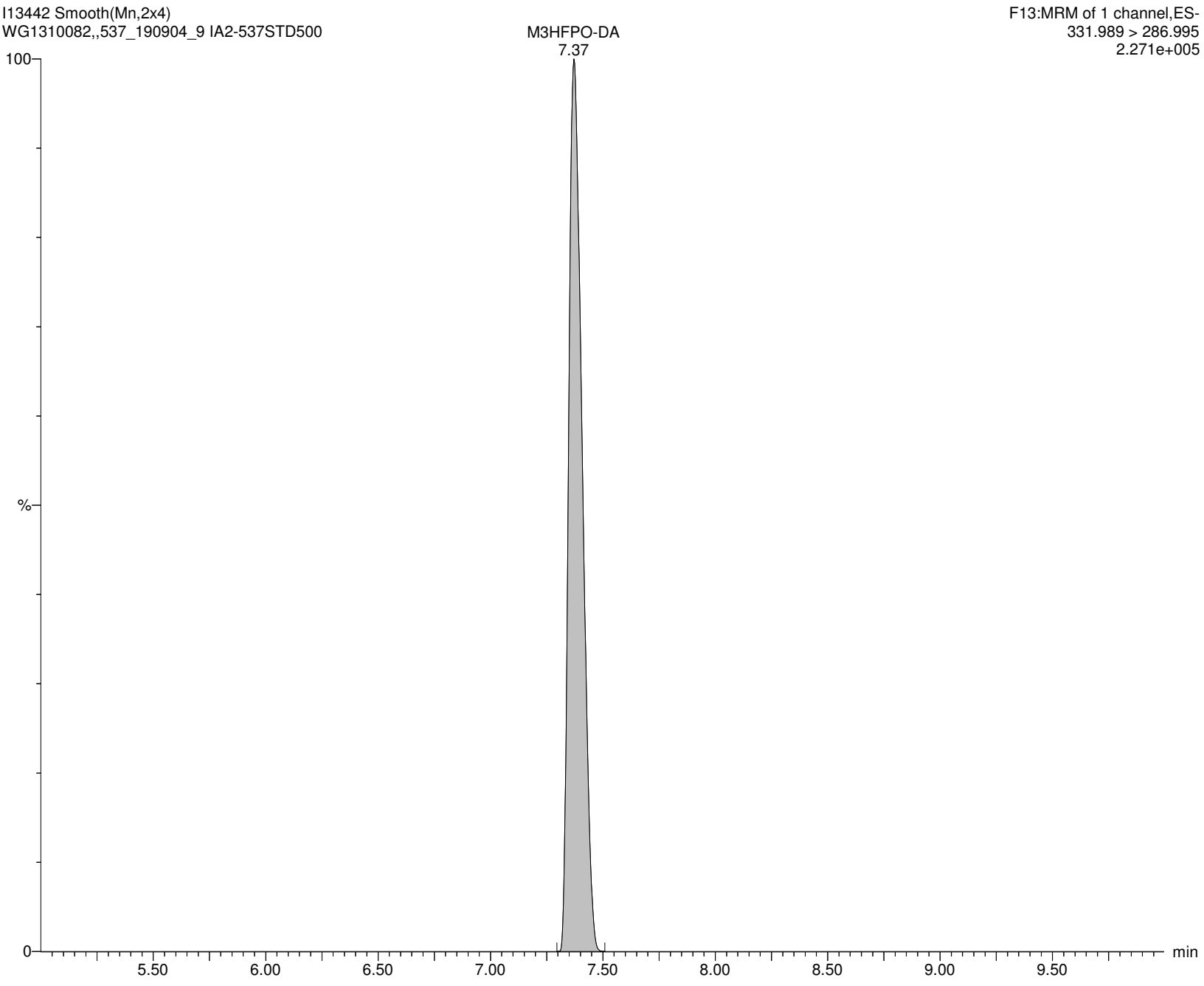

all concentration units in (ng/mL)

Alpha Analytical Inc.
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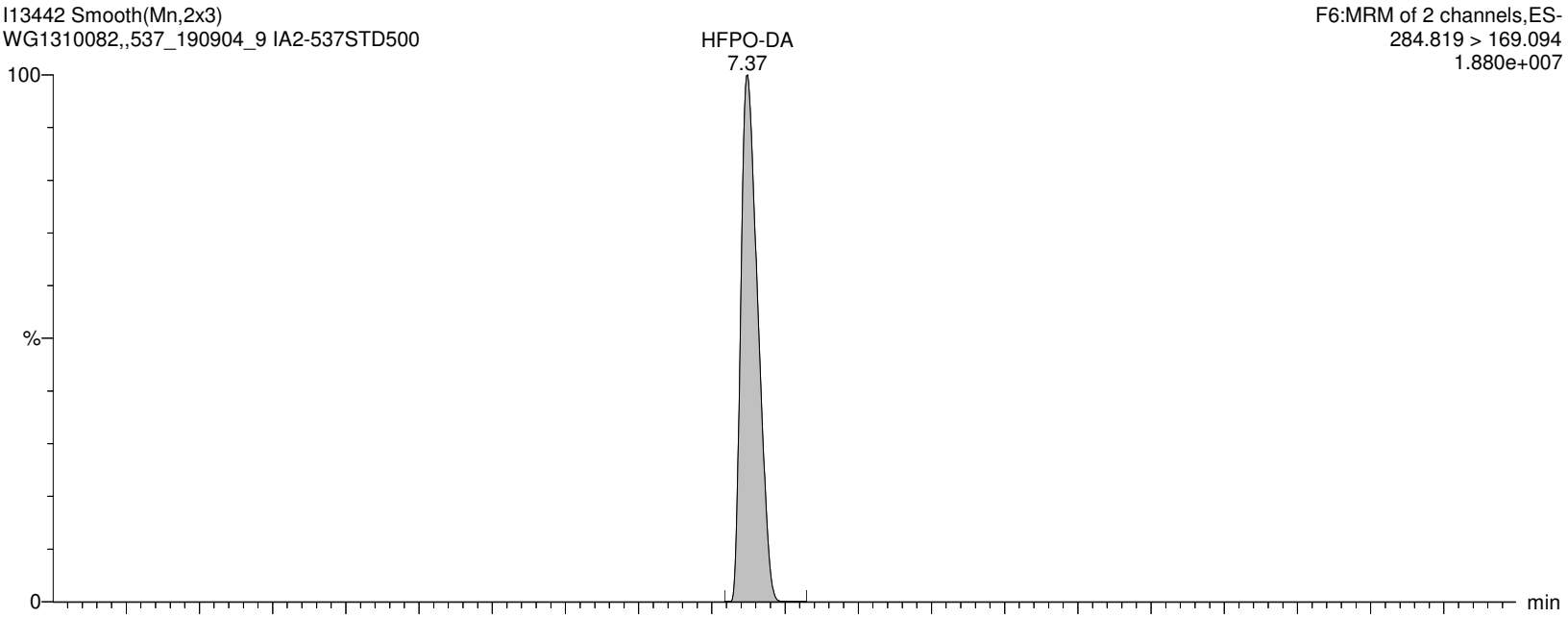

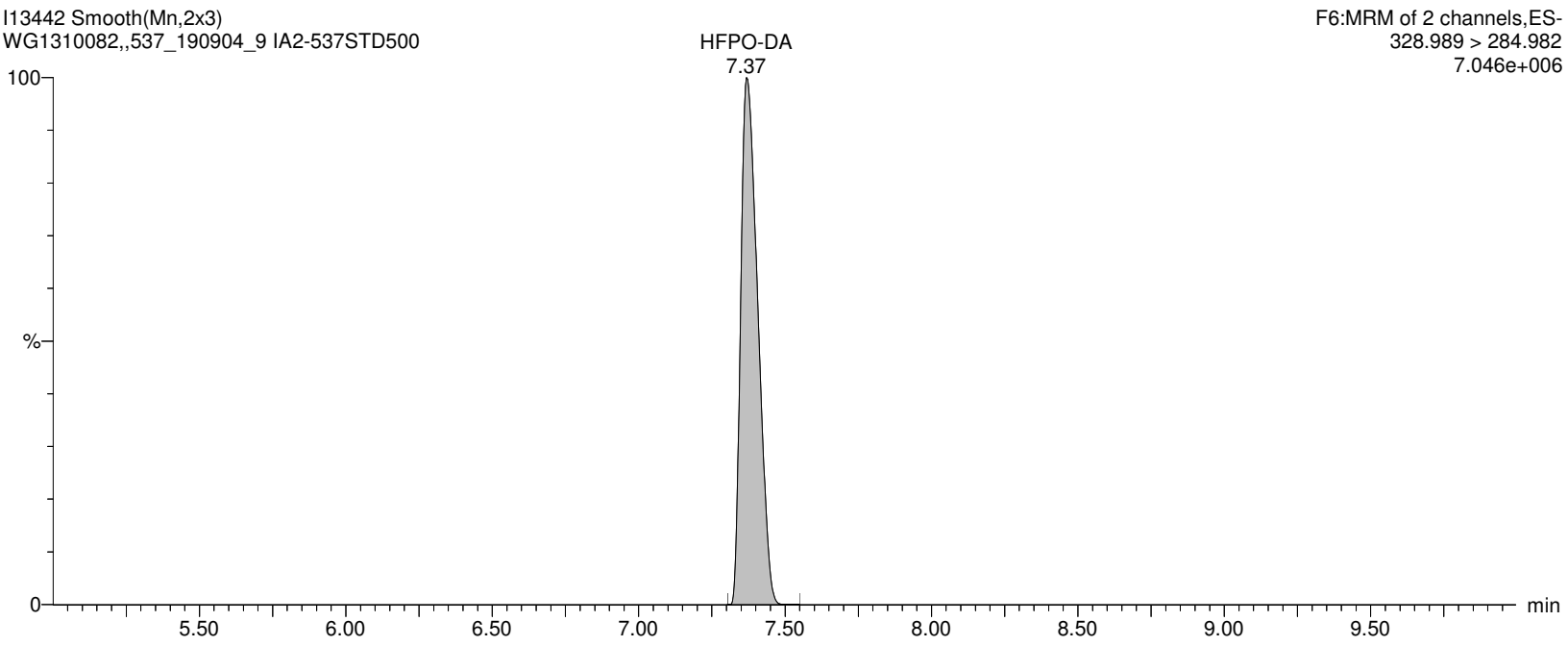

all concentration units in (ng/mL)

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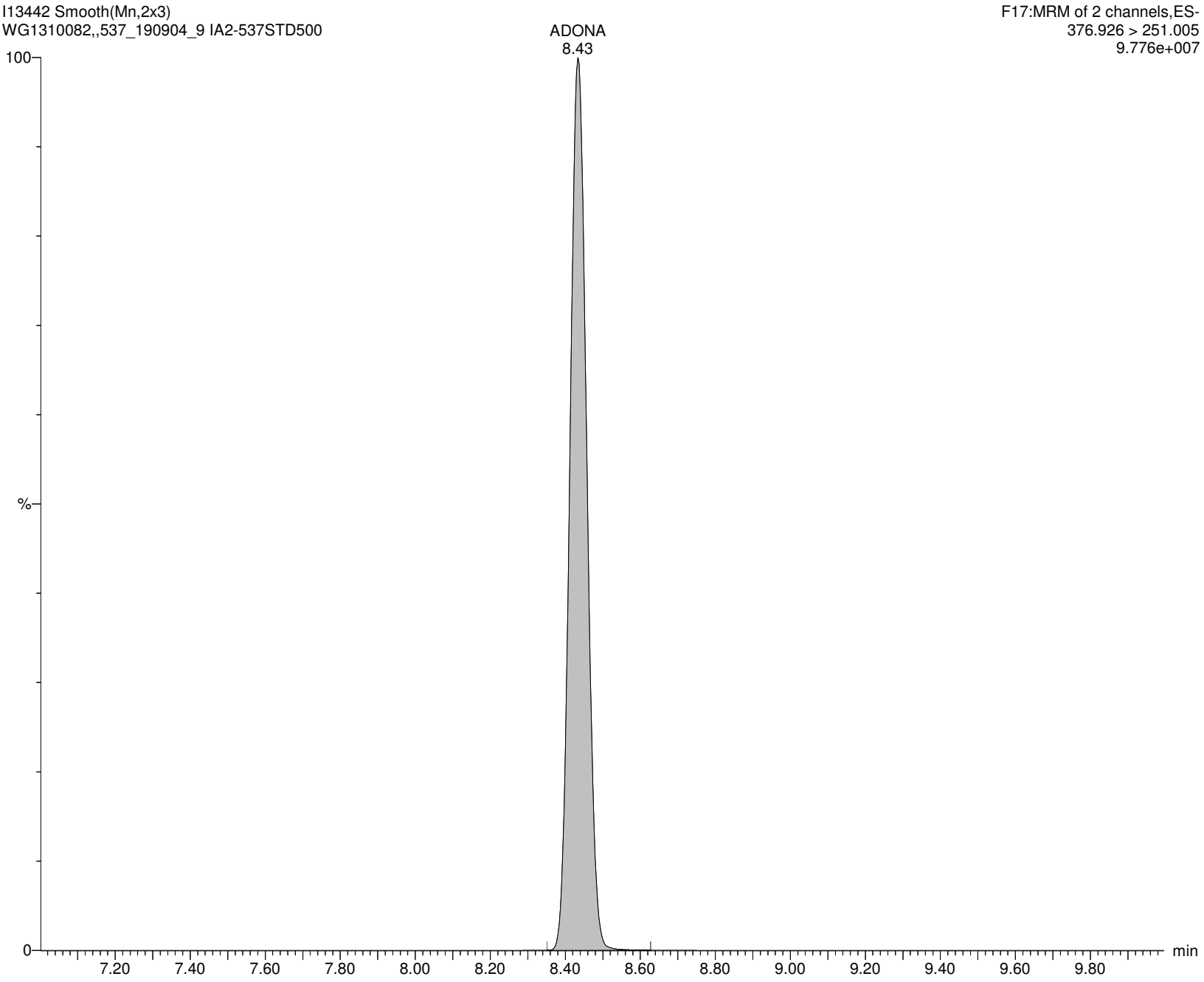

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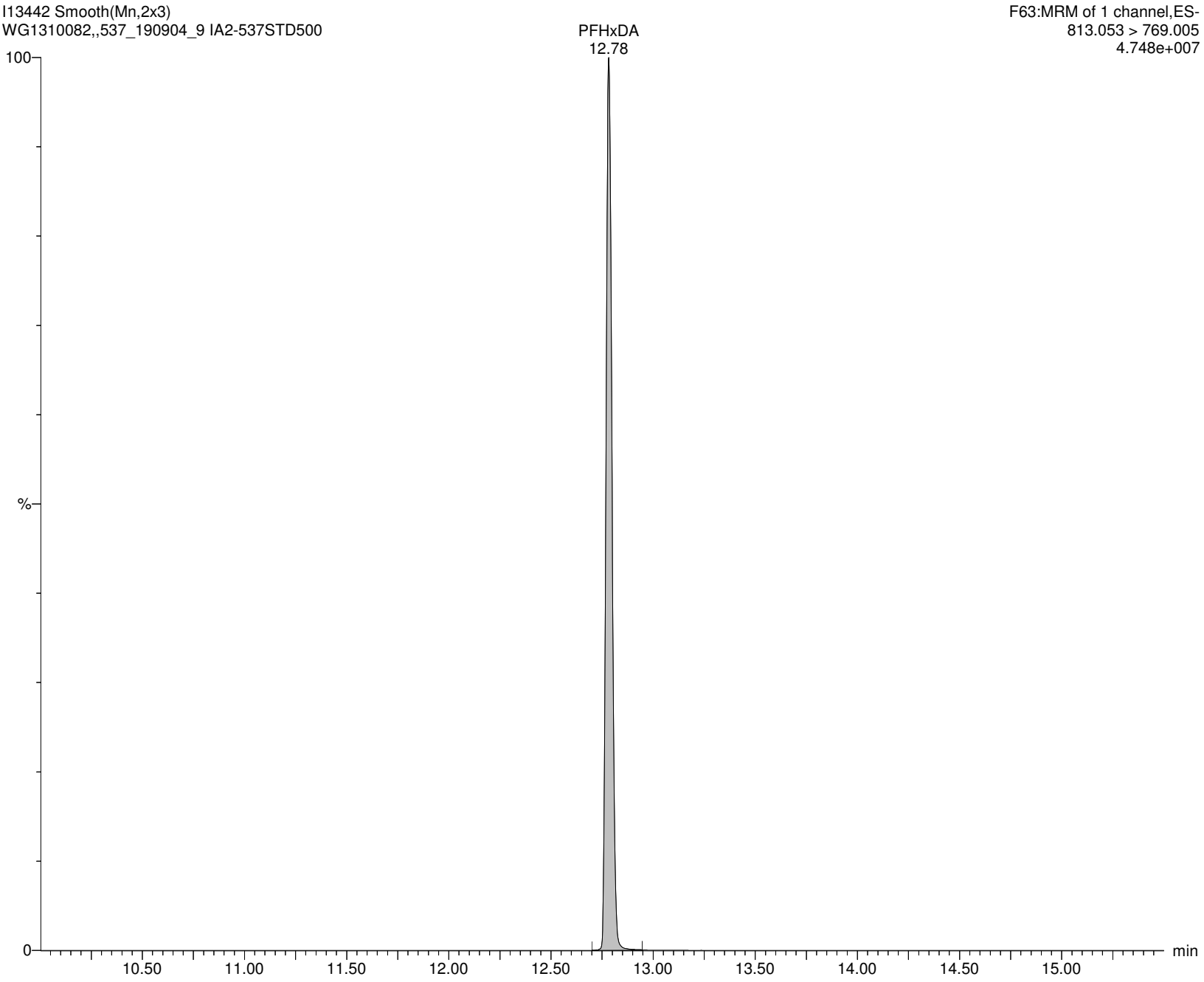

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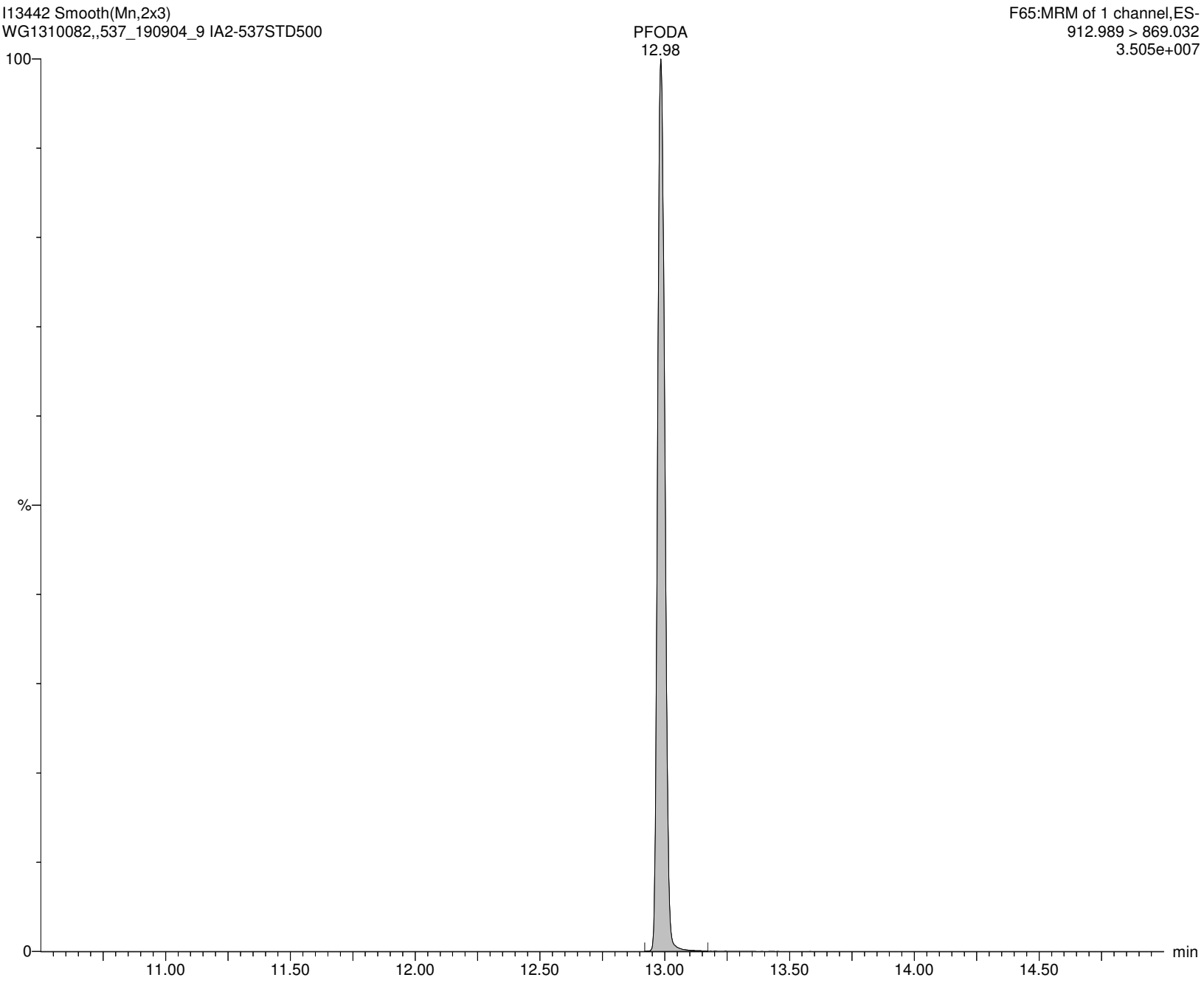

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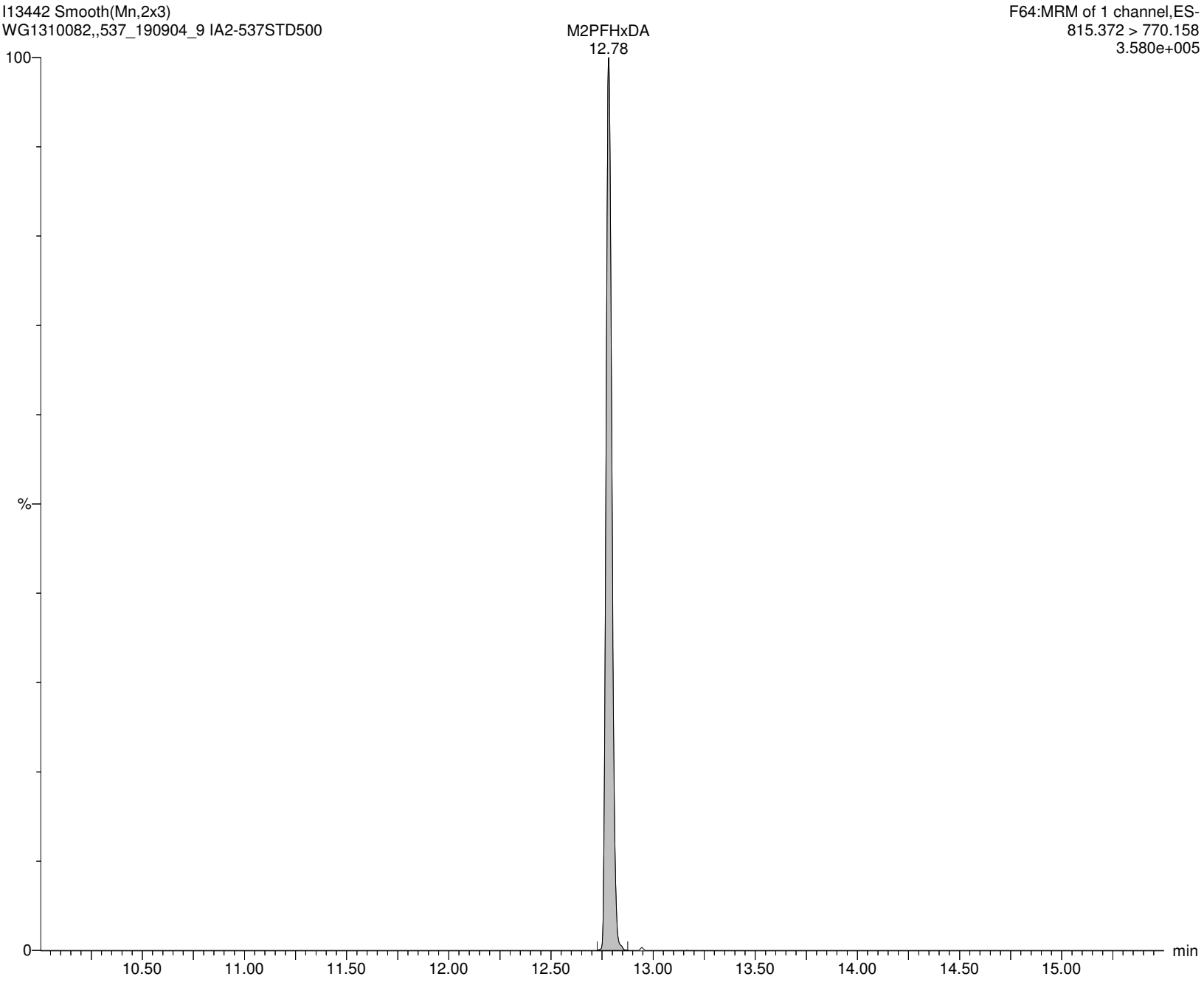

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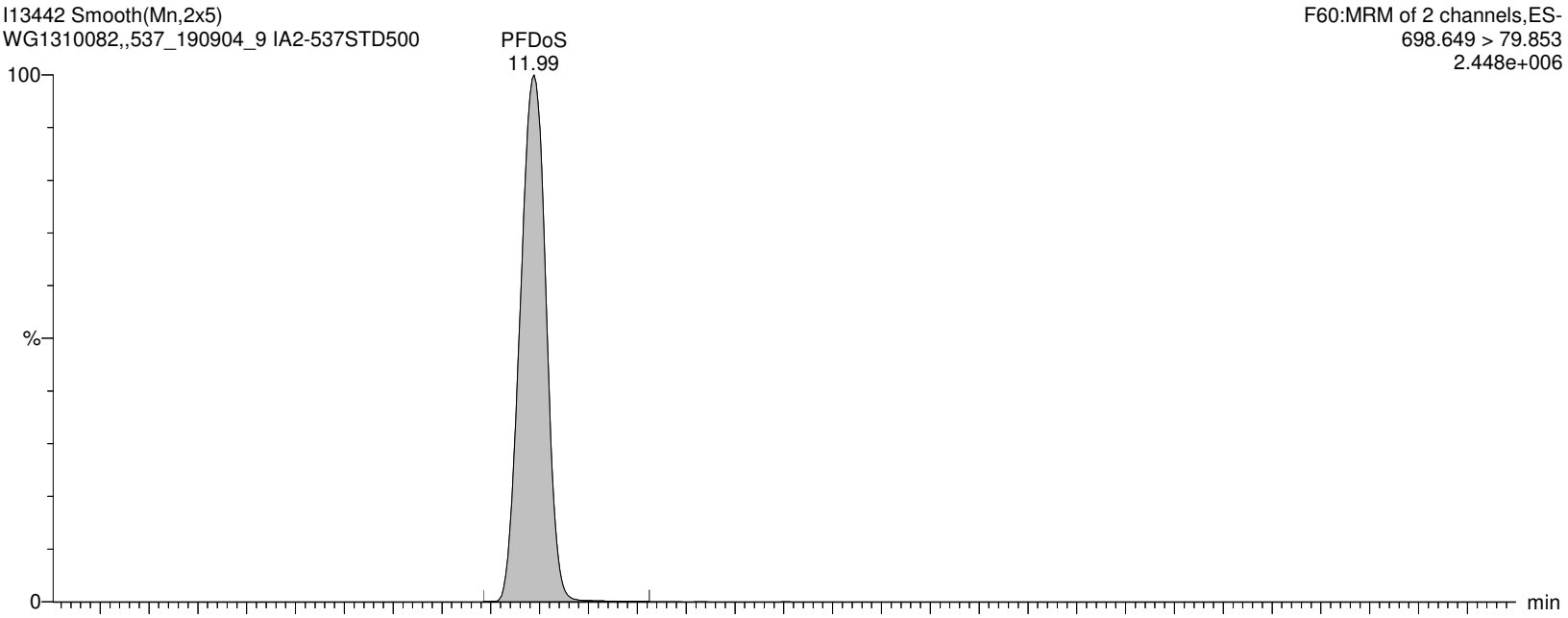

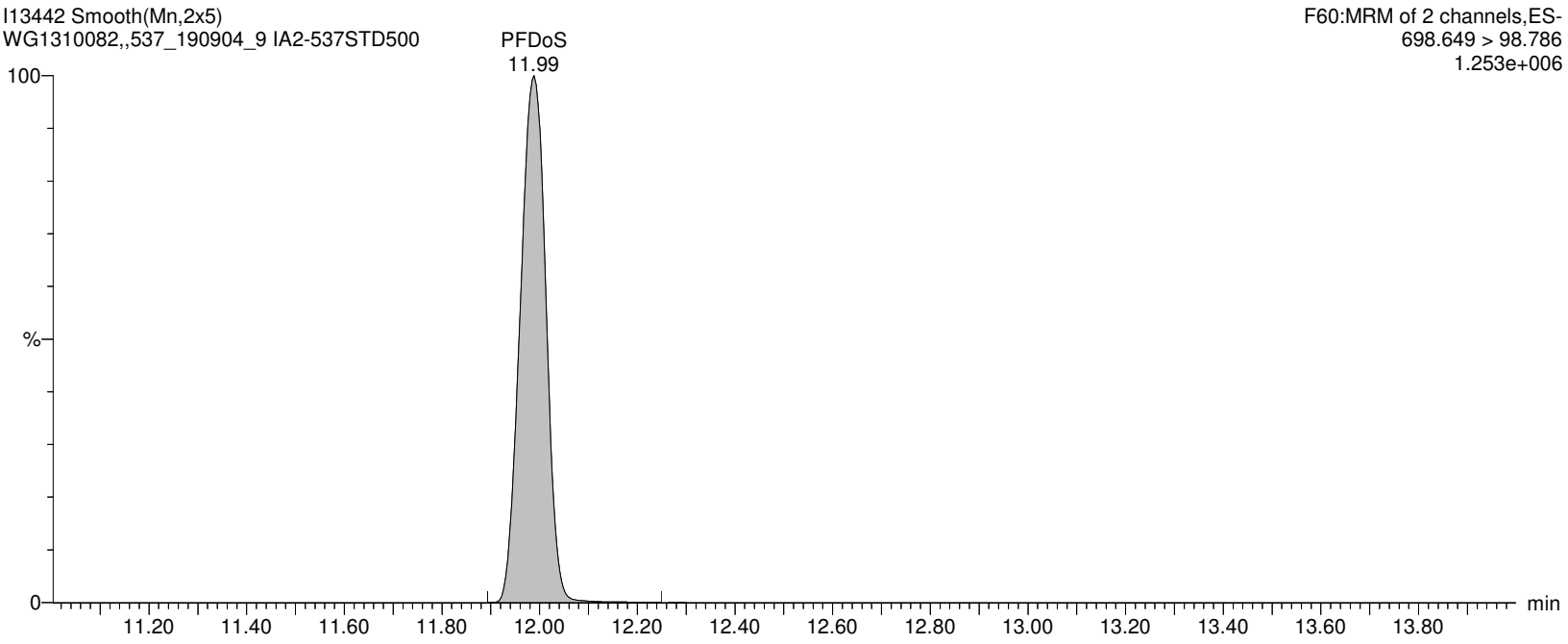

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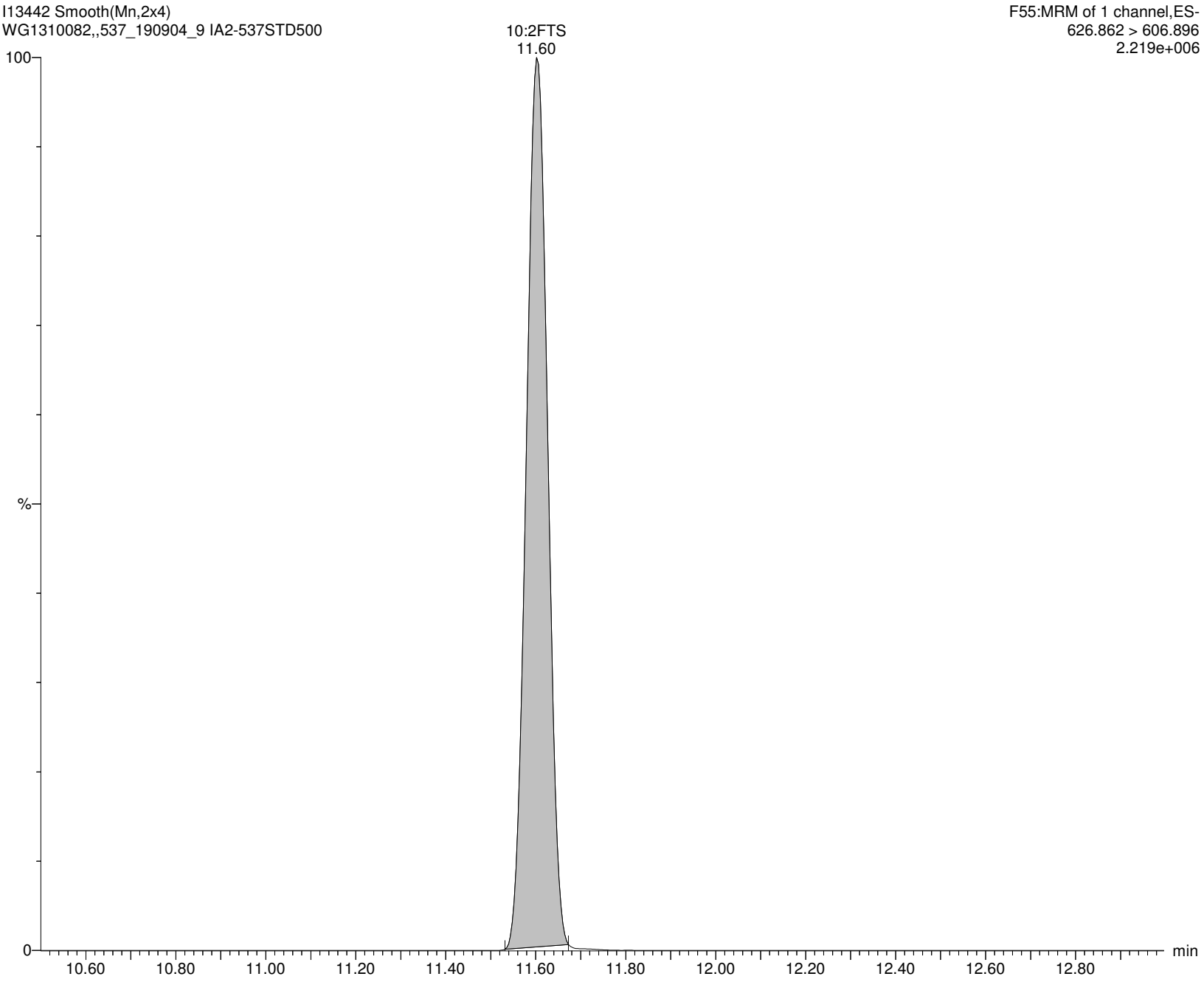

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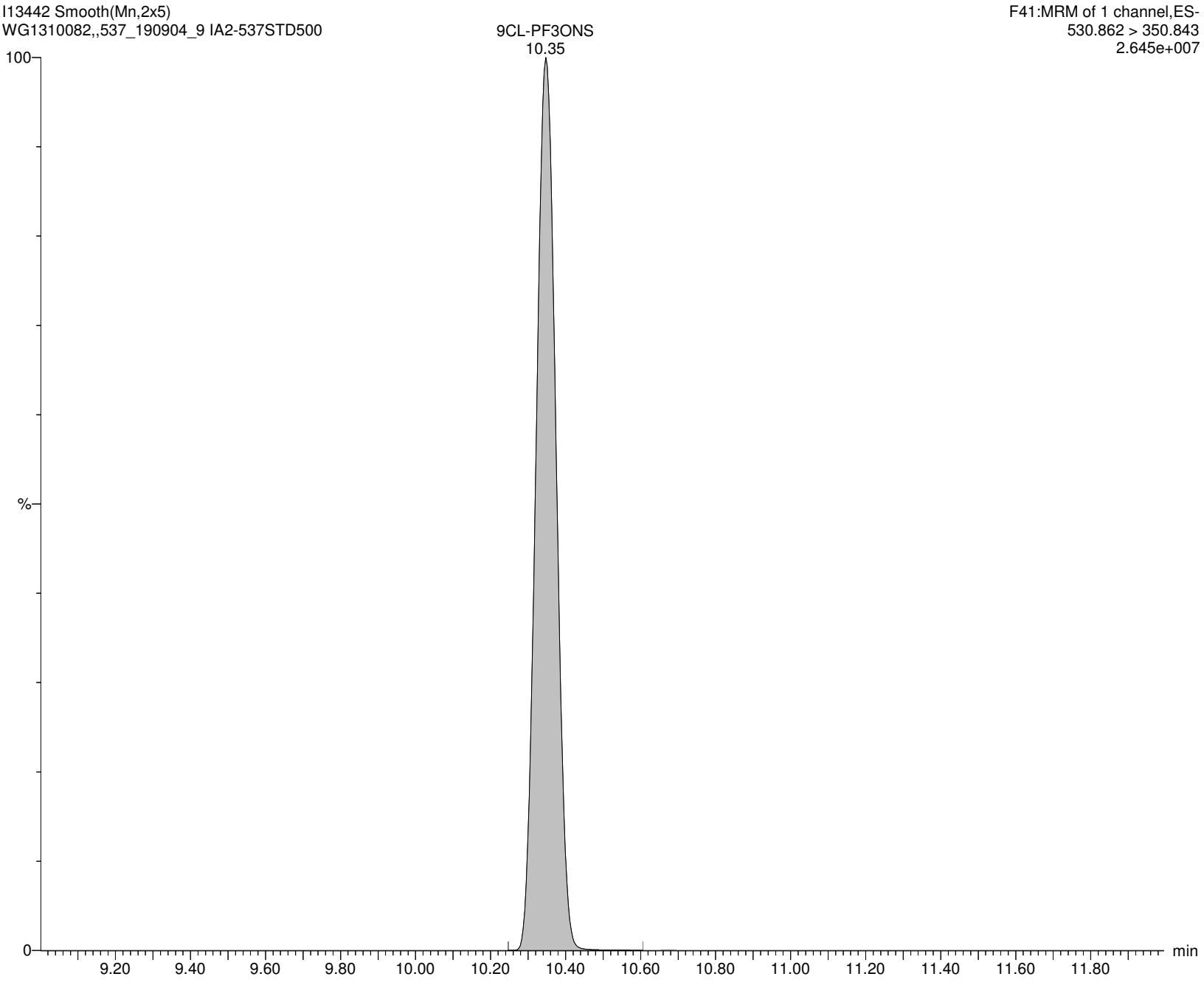
9CL-PF3ONS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
Printed: Monday, November 18, 2019 13:43:05 Eastern Standard Time

Name: I13442
ID: IA2-537STD500
Date: 18-Nov-2019
Time: 12:49:53
Description: WG1310082,,537_190904_9
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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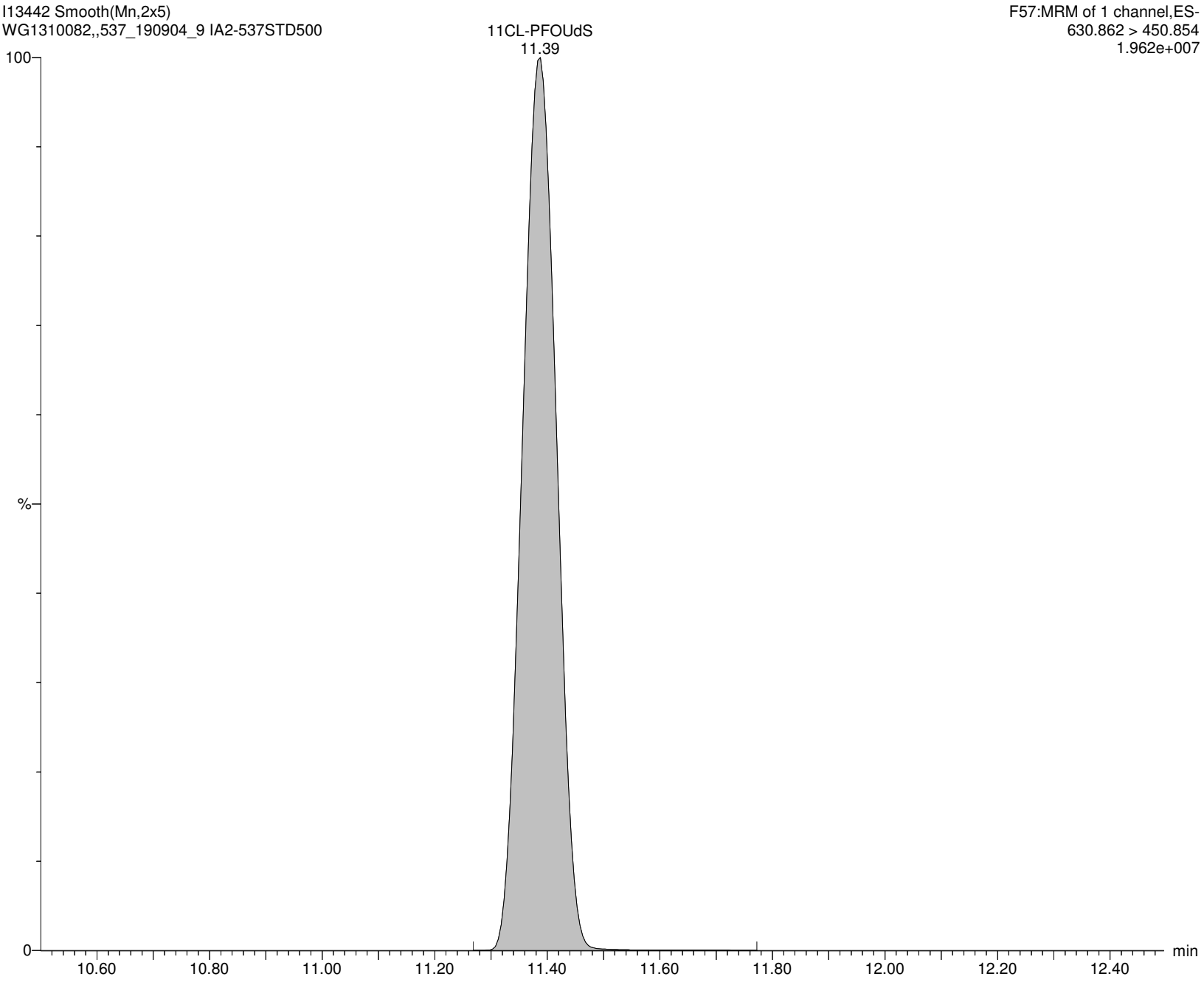
11CL-PFOUdS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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User: LCMS02:JW
Vial: 1:B,2
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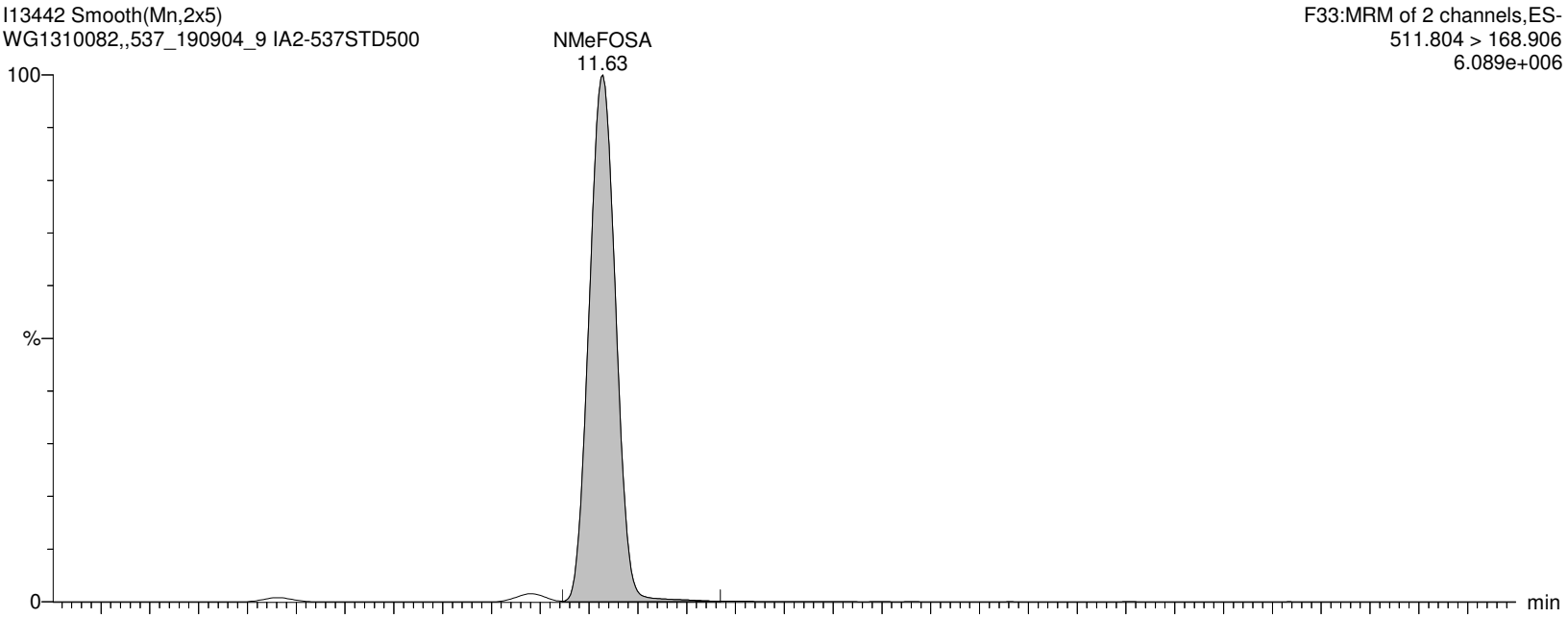
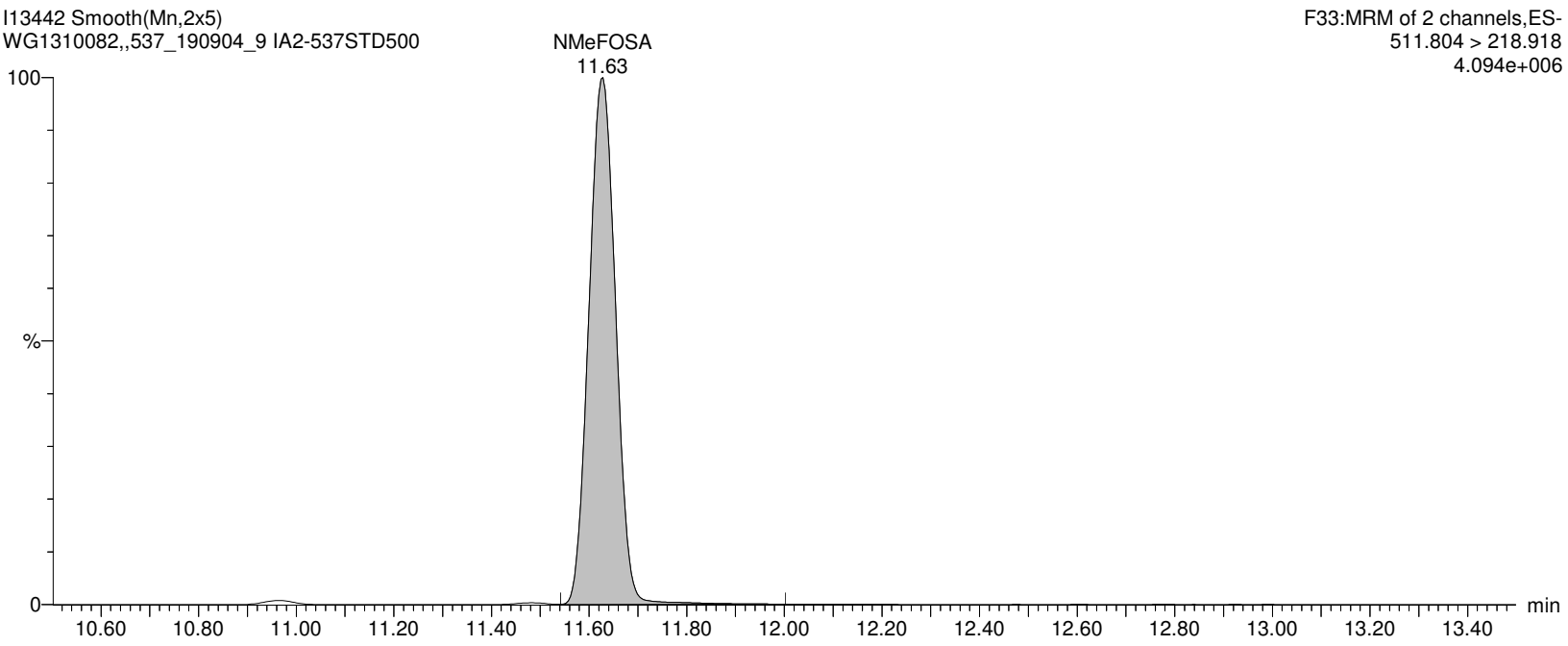
NMeFOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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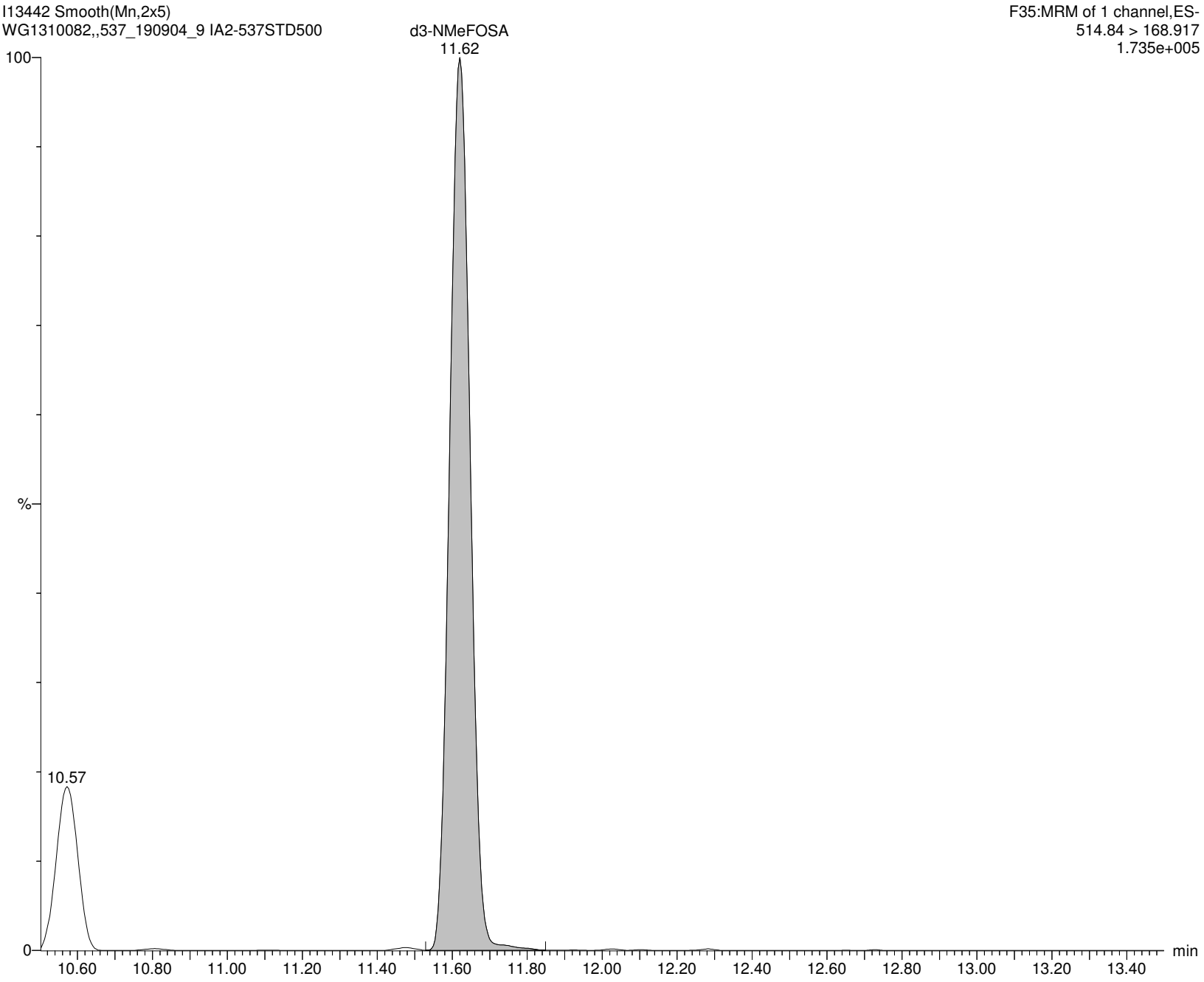
d3-NMeFOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Vial: 1:B,2
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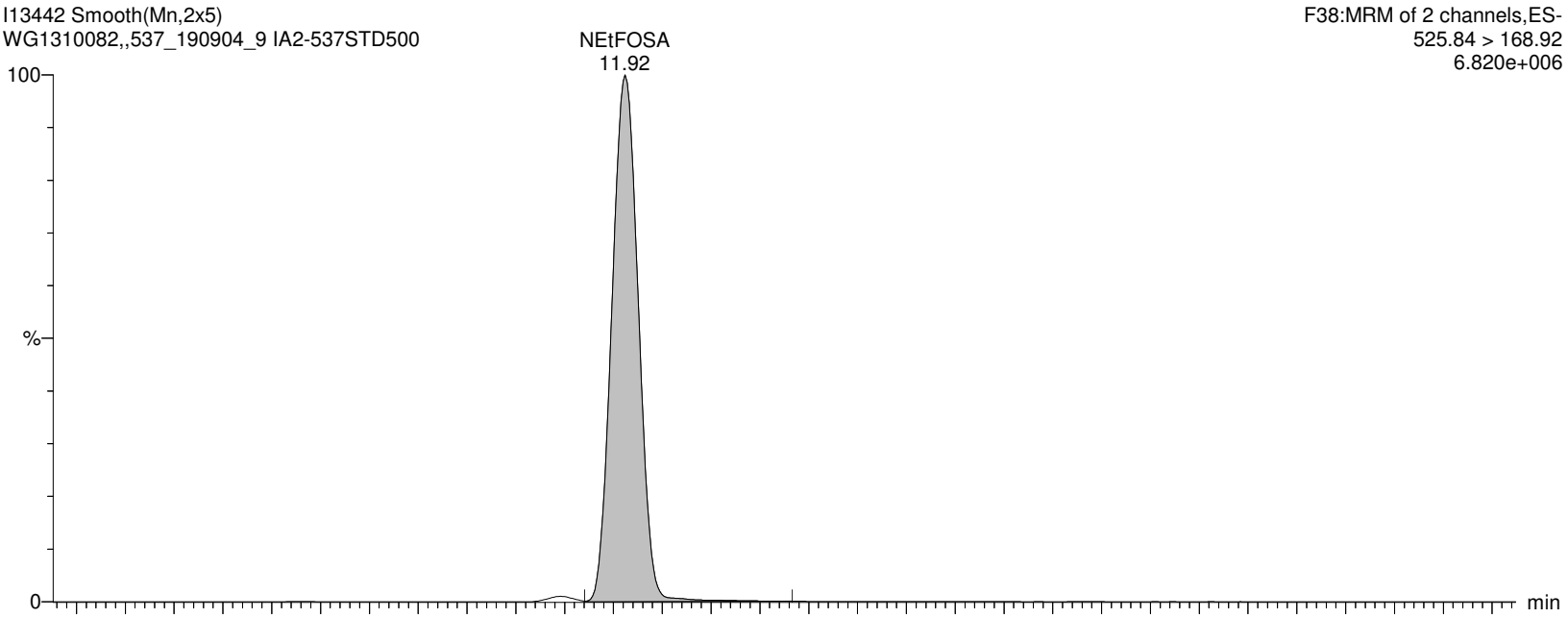
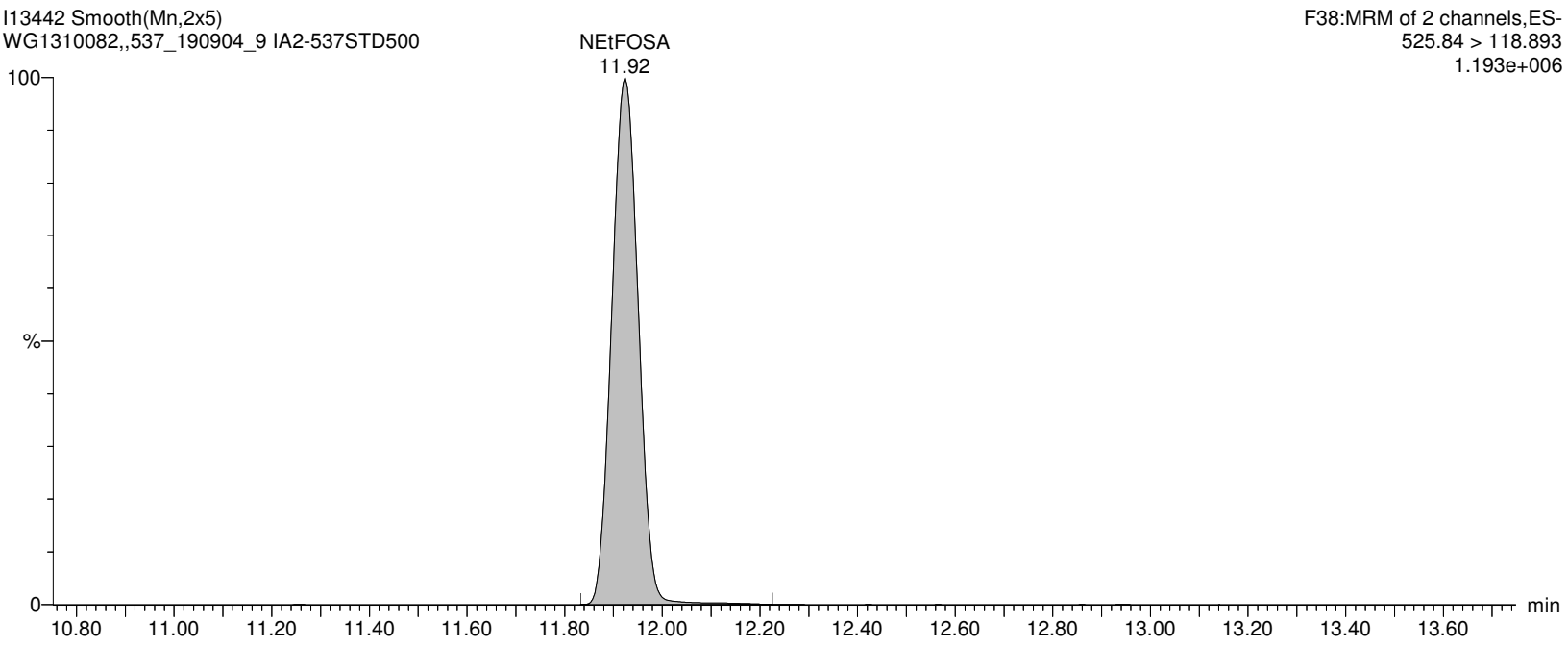
NEtFOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICAL.qld
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Date: 18-Nov-2019
Time: 12:49:53
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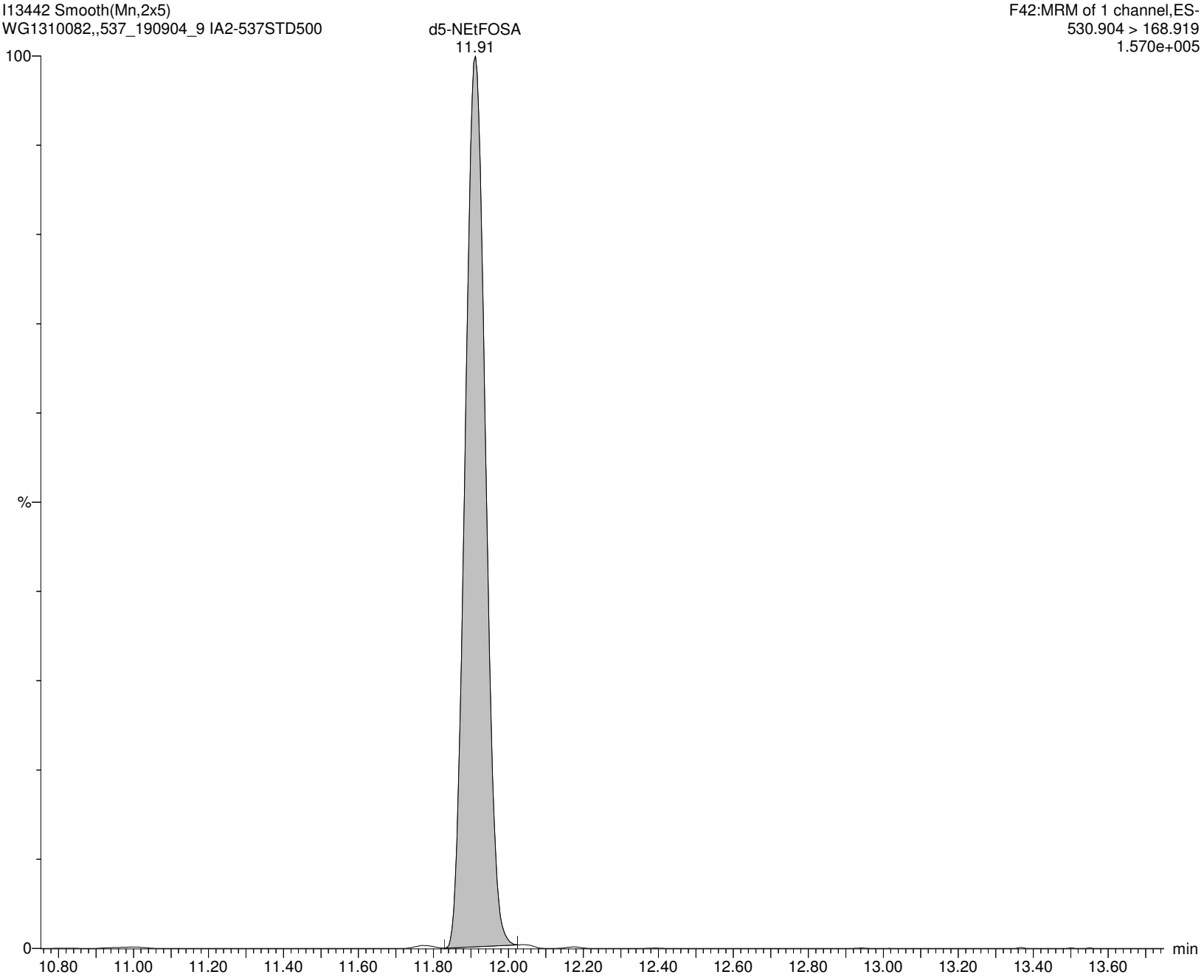
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

d5-NEtFOSA



all concentration units in (ng/mL)

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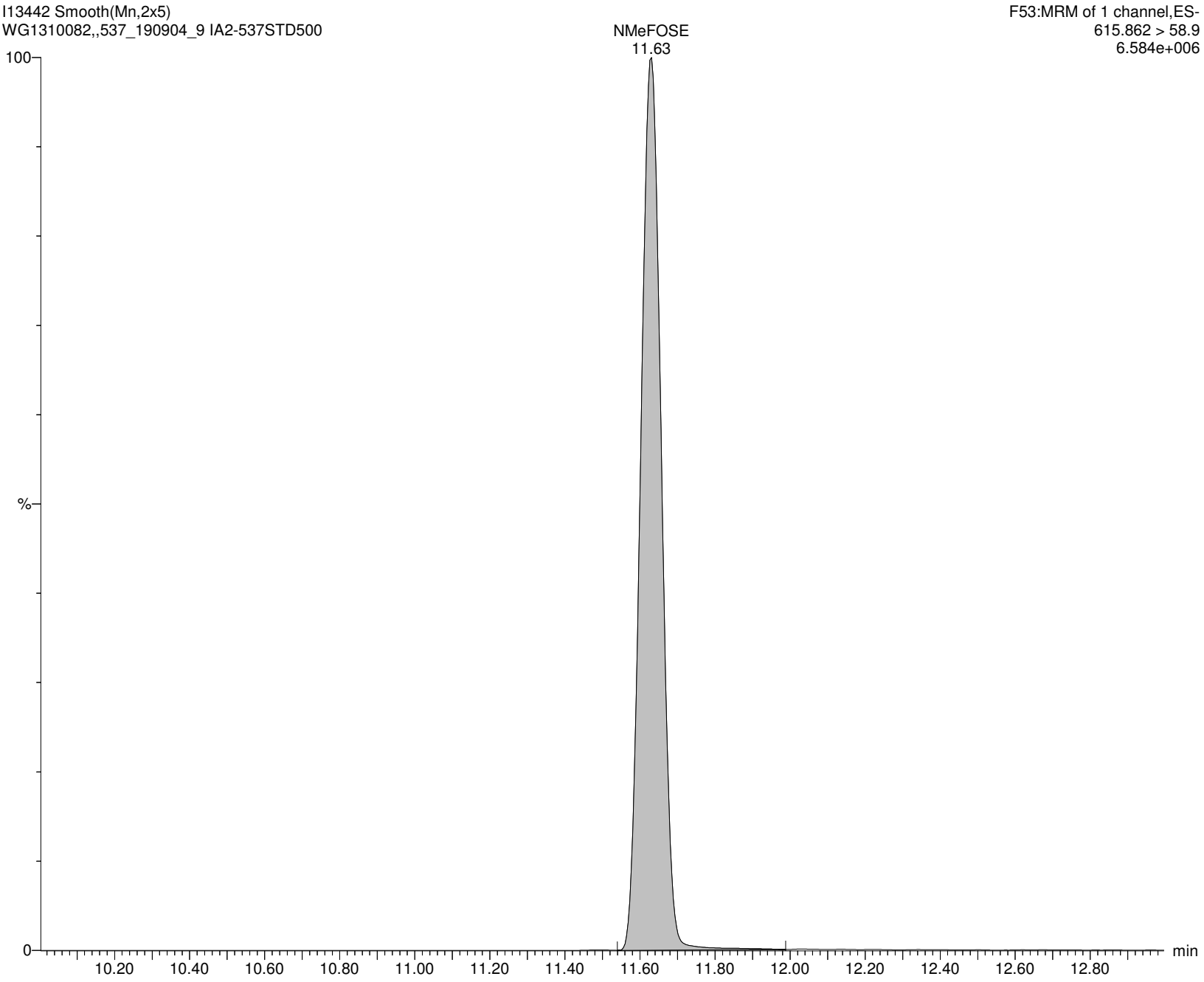

all concentration units in (ng/mL)

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Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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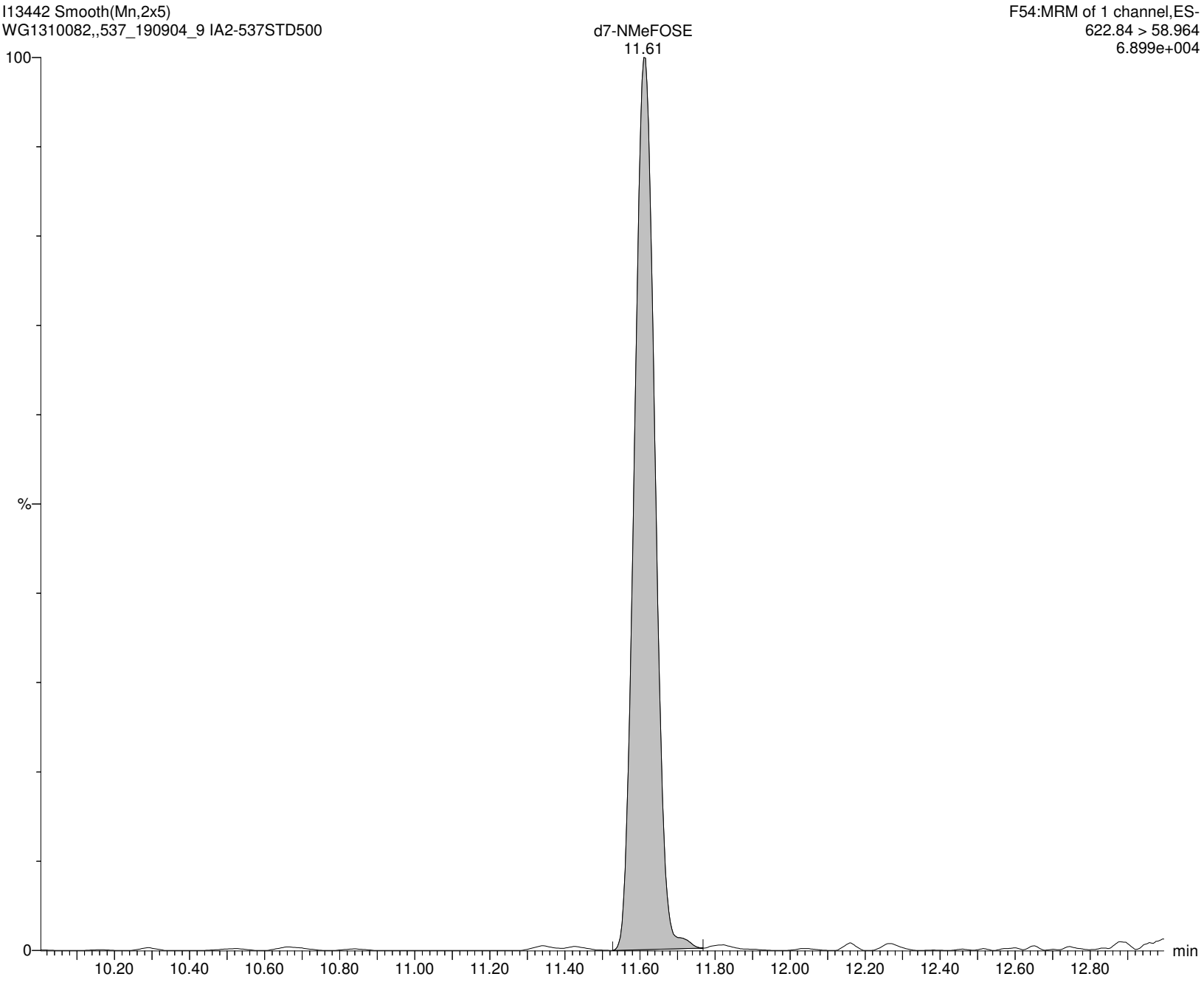
d7-NMeFOSE



all concentration units in (ng/mL)

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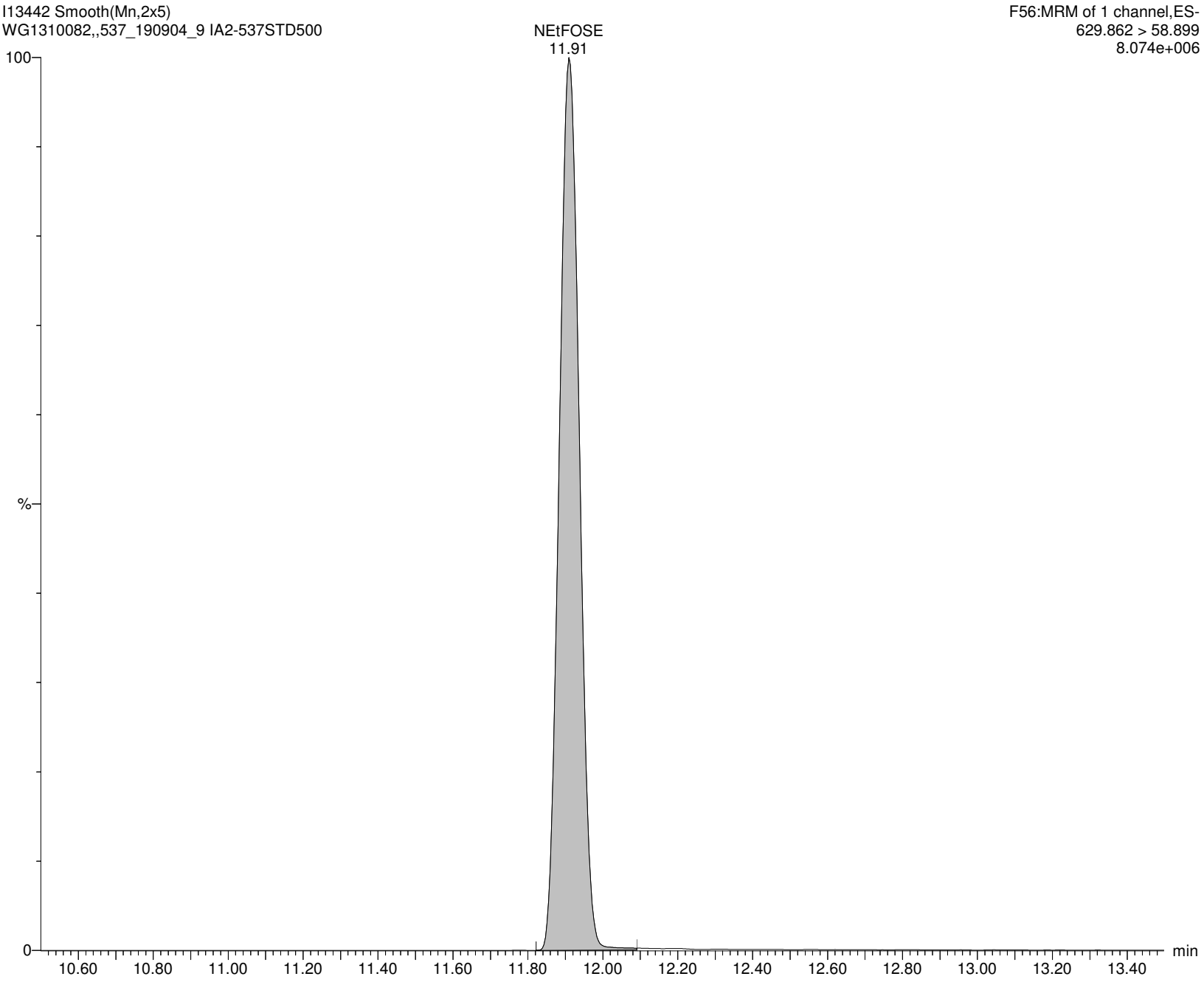
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 13:41:42 Eastern Standard Time
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Name: I13442
ID: IA2-537STD500
Date: 18-Nov-2019
Time: 12:49:53
Description: WG1310082,,537_190904_9
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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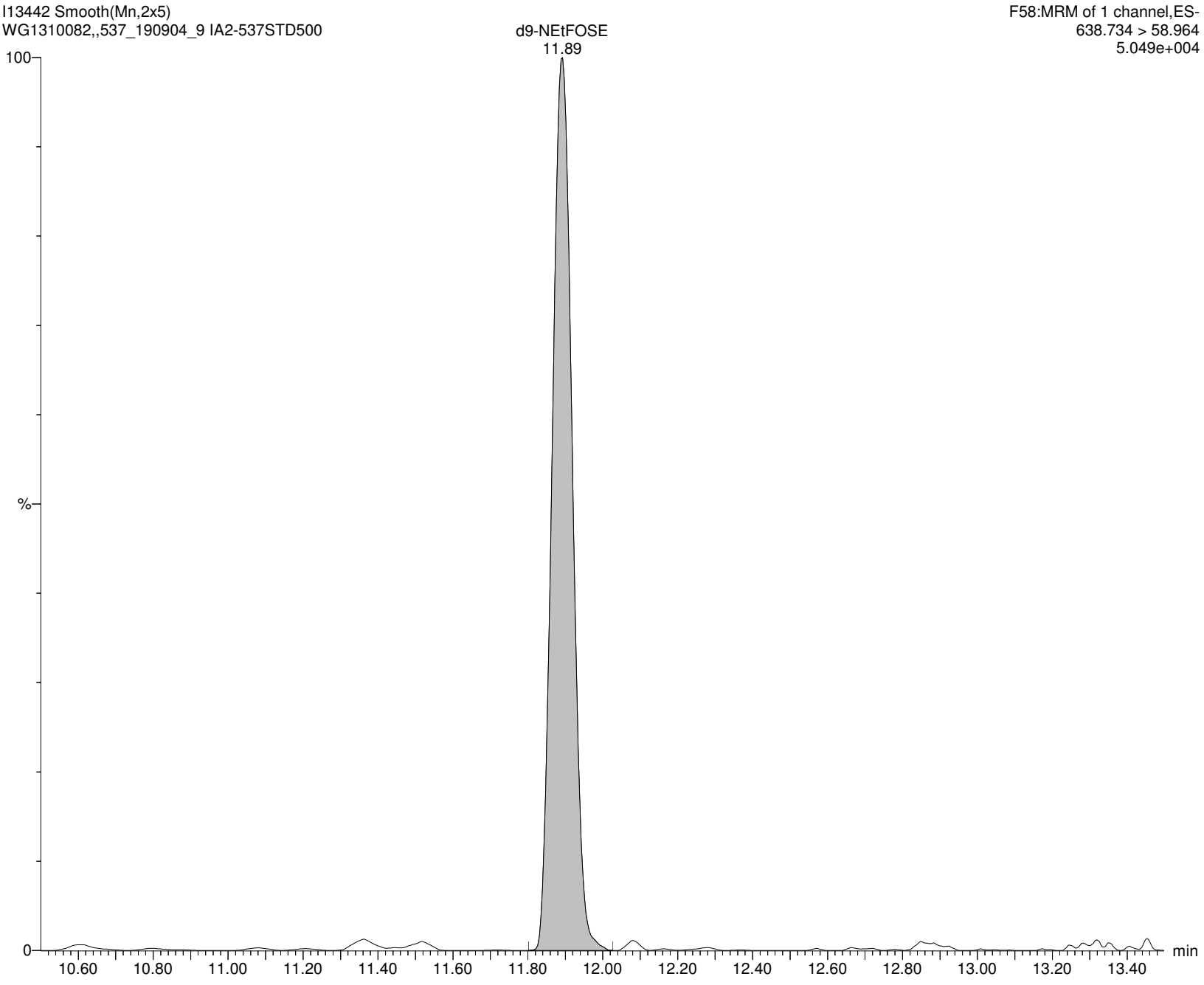
d9-NEtFOSE



all concentration units in (ng/mL)

Initial Calibration Verification

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:42:01
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: CA2-537STD010
Name: I13446
Date: 18-Nov-2019
Time: 14:05:52
Description: WG1310082,,537ISO_190904
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	42361		9.613		na	96.1
2	M3PFBA	INT STD	2.20	215.926 > 172.122	47650		10.284		na	102.8
3	MPFBA	INT STD	2.20	216.926 > 172.137	52774		10.177		na	101.8
4	PFPeA	2706-90-3	5.10	262.926 > 219.002	74854		10.093		na	100.9
5	M5PFPEA	INT STD	5.10	267.989 > 223.081	76794		10.441		na	104.4
6	PFBS	375-73-5	5.75	298.926 > 79.923	15207		9.790	1.84	NO	110.6
7	M3PFBS	INT STD	5.75	301.989 > 80.254	10573		9.614		na	96.1
8	4:2FTS	757124-72-4	6.92	326.926 > 306.957	6628		10.082	2.28	NO	107.8
9	M2-4:2FTS	INT STD	6.91	329.117 > 309.079	6106		8.550		na	85.5
10	PFHxA	307-24-4	6.99	312.989 > 269.028	86177		10.613	18.33	NO	106.1
11	M5PFHxA	INT STD	6.99	317.989 > 273.045	88207		10.040		na	100.4
12	PFPeS	2706-91-4	7.31	348.926 > 80.251	10536		9.627	1.75	NO	102.4
13	PFHpA	375-85-9	8.26	362.926 > 319.014	106076		9.749	5.71	NO	97.5
14	M4PFHpA	INT STD	8.26	366.926 > 321.979	120626		10.307		na	103.1
15	br-PFHxS	355-46-4	8.18	398.926 > 80.295	1040	M5	1.338	1.53	NO	78.7
16	L-PFHxS	355-46-4	8.41	398.926 > 80.295	7078		8.636	1.14	NO	116.7
17	PFHxS	355-46-4		398.926 > 80.295	8119		9.974		na	
18	M3PFHxS	INT STD	8.41	401.926 > 80.317	6544		10.308		na	103.1
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.19	412.989 > 368.9	106483		10.020	10.36	NO	100.2
21	PFOA	335-67-1		412.989 > 368.9	106483		10.020		na	
22	M8PFOA	INT STD	9.20	420.989 > 375.979	115730		10.305		na	103.1
23	M2PFOA	INT STD	9.19	415.032 > 369.968	114773		10.857		na	108.6
24	6:2FTS	27619-97-2	9.16	426.989 > 406.921	5027		9.893	10.39	NO	104.1
25	M2-6:2FTS	INT STD	9.15	428.989 > 408.917	6410		9.186		na	91.9
26	PFHpS	375-92-8	9.29	448.926 > 80.257	5298		9.538	0.80	NO	100.4
27	PFNA	375-95-1	9.95	462.989 > 418.931	100647		10.746	4.57	NO	107.5
28	M9PFNA	INT STD	9.95	472.053 > 426.947	114327		10.346		na	103.5
29	br-PFOS	1763-23-1	9.75	498.989 > 80.294	2213	M5	2.000	12.82	NO	100.0
30	L-PFOS	1763-23-1	10.00	498.989 > 80.294	4755		5.744	1.31	NO	78.7
31	PFOS	1763-23-1		498.989 > 80.294	6968		7.744		na	
32	M4PFOS	INT STD	9.99	503.032 > 80.306	7858		11.251		na	112.5
33	M8PFOS	INT STD	9.99	507.053 > 80.294	8435		10.462		na	104.6
34	PFDA	335-76-2	10.57	513.053 > 468.906	97351		10.757	6.98	NO	107.6
35	M2PFDA	INT STD	10.57	515.053 > 469.934	101020		11.442		na	114.4
36	M6PFDA	INT STD	10.57	519.053 > 473.931	105496		10.105		na	101.0
37	8:2FTS	39108-34-4	10.56	526.926 > 506.818	4539		11.498		na	119.8
38	M2-8:2FTS	INT STD	10.56	529.053 > 508.945	3767		9.201		na	92.0
39	PFNS	68259-12-1	10.60	548.989 > 80.249	7693		9.805	1.23	NO	102.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

ID: CA2-537STD010
Name: I13446
Date: 18-Nov-2019
Time: 14:05:52
Description: WG1310082,,537ISO_190904
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.95	573.096 > 418.987	11079		9.317		na	93.2
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	11297		10.941	2.63	NO	109.4
43	NMeFOSAA	2355-31-9		570.053 > 418.917	11297		10.941		na	
44	PFUnA	2058-94-8	11.11	562.989 > 518.903	82999		8.764	7.78	NO	87.6
45	M7-PFUDA	INT STD	11.11	570.053 > 524.923	99029		10.692		na	106.9
46	PFDS	335-77-3	11.12	598.926 > 80.314	5925		10.565	0.97	NO	109.5
47	FOSA	754-91-6	11.01	497.989 > 78.245	24260		9.662	147.48	NO	96.6
48	M8FOSA	INT STD	11.01	506.053 > 78.286	23629		9.573		na	95.7
49	d5-NEtFOSAA	INT STD	11.25	589.117 > 418.929	9513		9.057		na	90.6
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	9291		10.346	2.69	NO	103.5
52	NEtFOSAA	2991-50-6		583.989 > 418.927	9291		10.346		na	
53	PFDoA	307-55-1	11.59	612.989 > 568.967	87678		10.260	15.06	NO	102.6
54	MPFDOA	INT STD	11.59	614.989 > 569.92	100895		9.710		na	97.1
55	PFTrDA	72629-94-8	12.00	663.053 > 618.969	70021		10.244	11.82	NO	102.4
56	PFTA	376-06-7	12.36	713.053 > 668.976	68360		10.866	8.97	NO	108.7
57	M2PFTEDA	INT STD	12.36	715.053 > 669.945	78556		9.518		na	95.2
58	M3HFPO-DA	INT STD	7.42	331.989 > 286.995	4341		88.220		na	44.1
59	HFPO-DA	13252-13-6	7.42	284.819 > 169.094	7583		210.406	2.55	YES	105.2
60	ADONA	958445-44-8	8.44	376.926 > 251.005	164793		10.832		na	114.5
61	PFHxDA		12.78	813.053 > 769.005	57272		8.572		na	85.7
62	PFODA		12.99	912.989 > 869.032	39786		8.125		na	81.2
63	M2PFHxDA		12.78	815.372 > 770.158	18254		10.390		na	103.9
64	PFDoS		11.99	698.649 > 79.853	5661		9.903	2.09	YES	99.0
65	10:2FTS		11.60	626.862 > 606.896	4054		10.610		na	110.1
66	9CL-PF3ONS		10.34	530.862 > 350.843	49285		8.891		na	95.4
67	11CL-PFOUdS		11.38	630.862 > 450.854	38494		8.237		na	87.4
68	NMeFOSA		11.62	511.804 > 168.906	9247		10.775	1.49	NO	107.8
69	d3-NMeFOSA		11.62	514.84 > 168.917	11547		8.969		na	89.7
70	NEtFOSA		11.92	525.84 > 168.92	10066		10.332	6.38	YES	103.3
71	d5-NEtFOSA		11.91	530.904 > 168.919	11119		8.830		na	88.3
72	NMeFOSE		11.62	615.862 > 58.9	13355		12.138		na	121.4
73	d7-NMeFOSE		11.61	622.84 > 58.964	5439		9.020		na	90.2
74	NEtFOSE		11.91	629.862 > 58.899	13817		10.579		na	105.8
75	d9-NEtFOSE		11.89	638.734 > 58.964	3309		9.385		na	93.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

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Date: 18-Nov-2019
Time: 14:05:52
Description: WG1310082,,537ISO_190904
User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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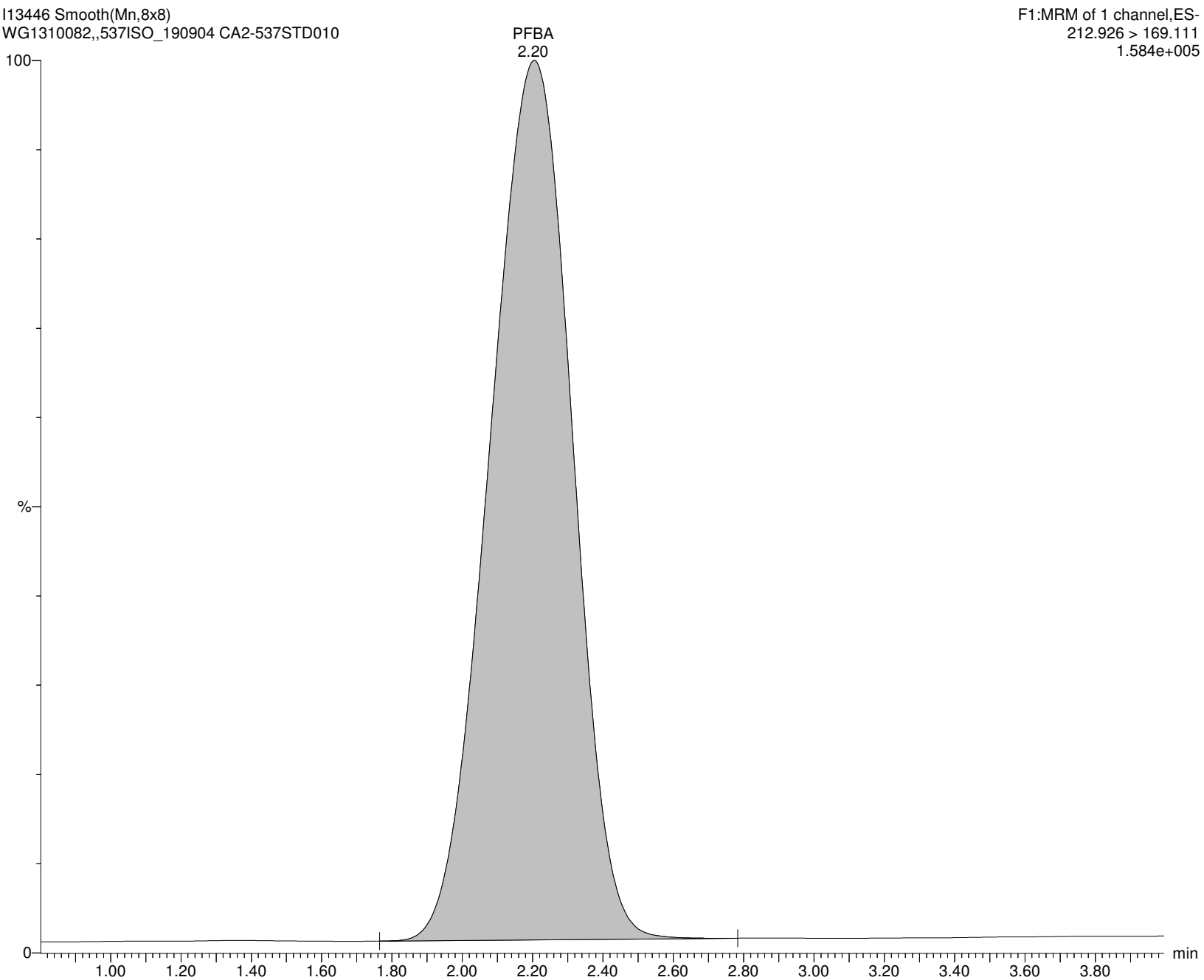

all concentration units in (ng/mL)

Alpha Analytical Inc.
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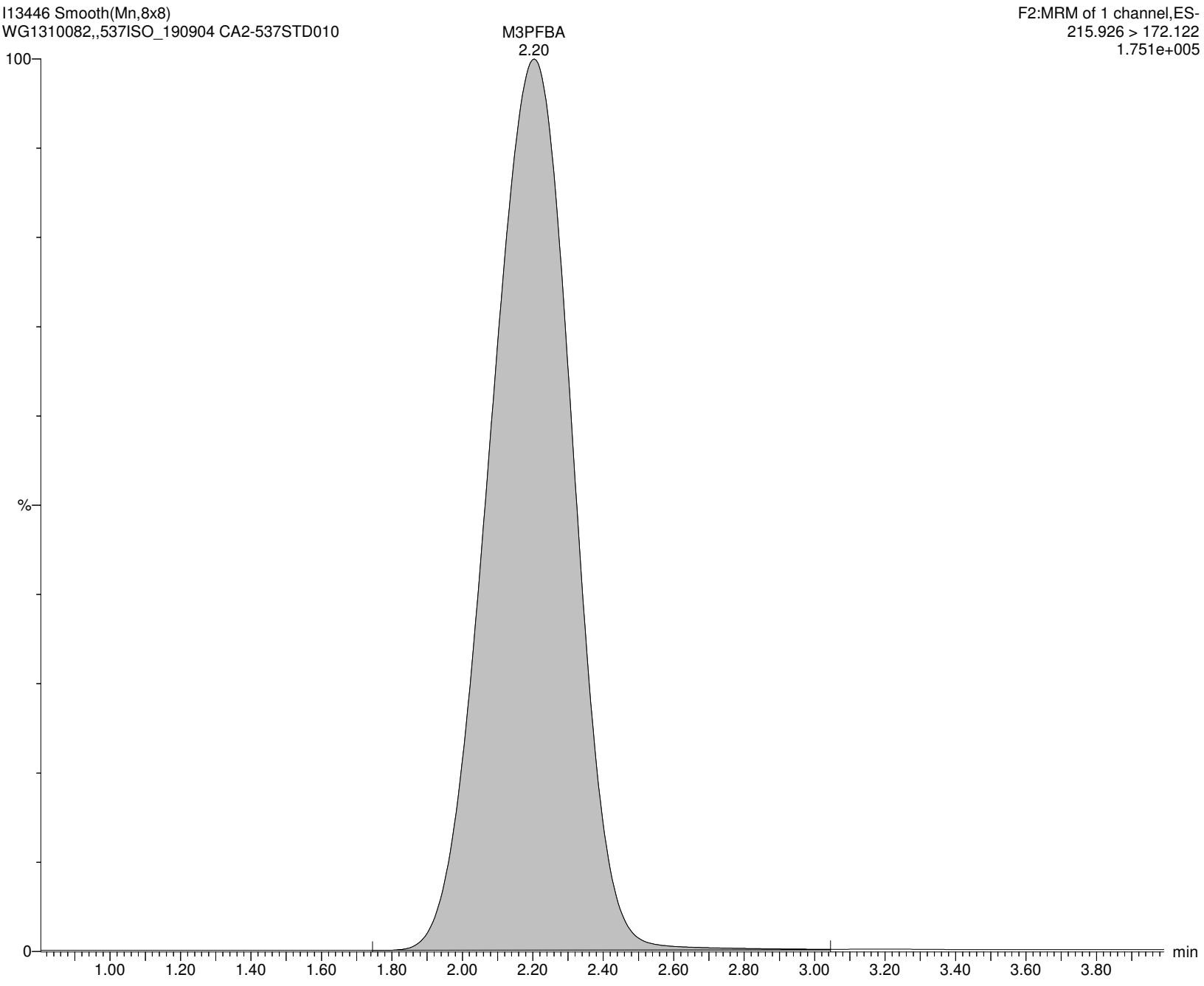

all concentration units in (ng/mL)

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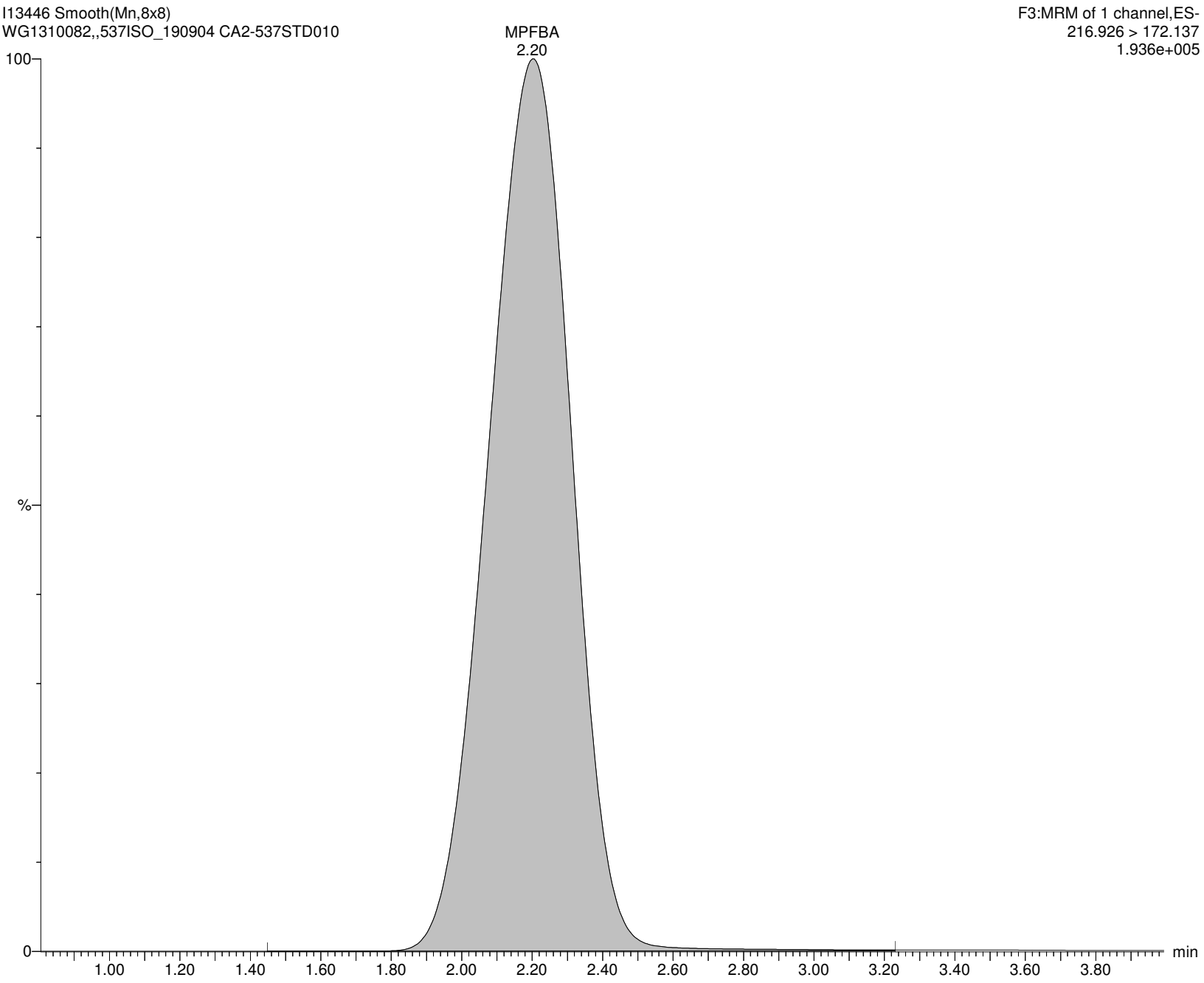

all concentration units in (ng/mL)

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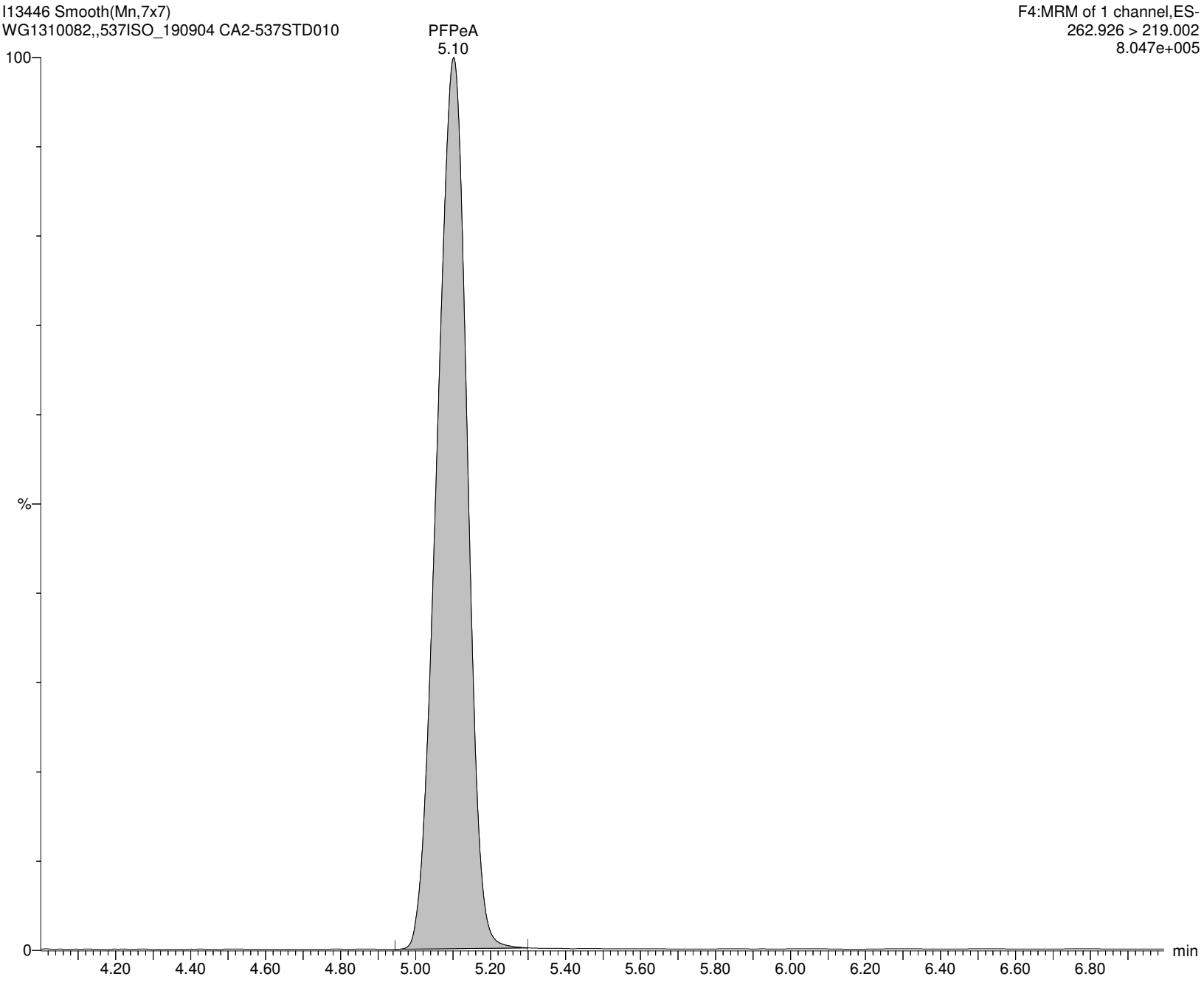

all concentration units in (ng/mL)

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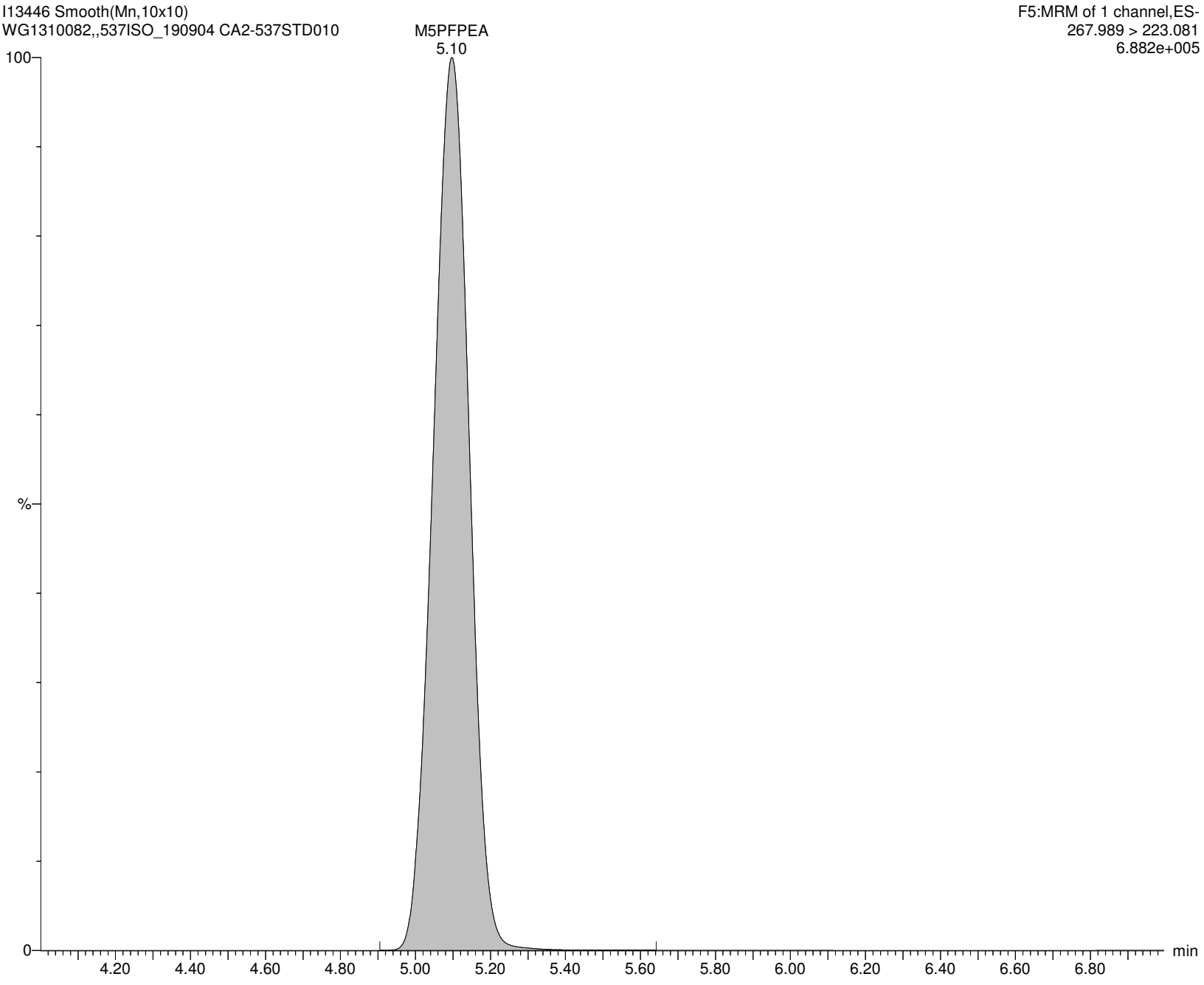

all concentration units in (ng/mL)

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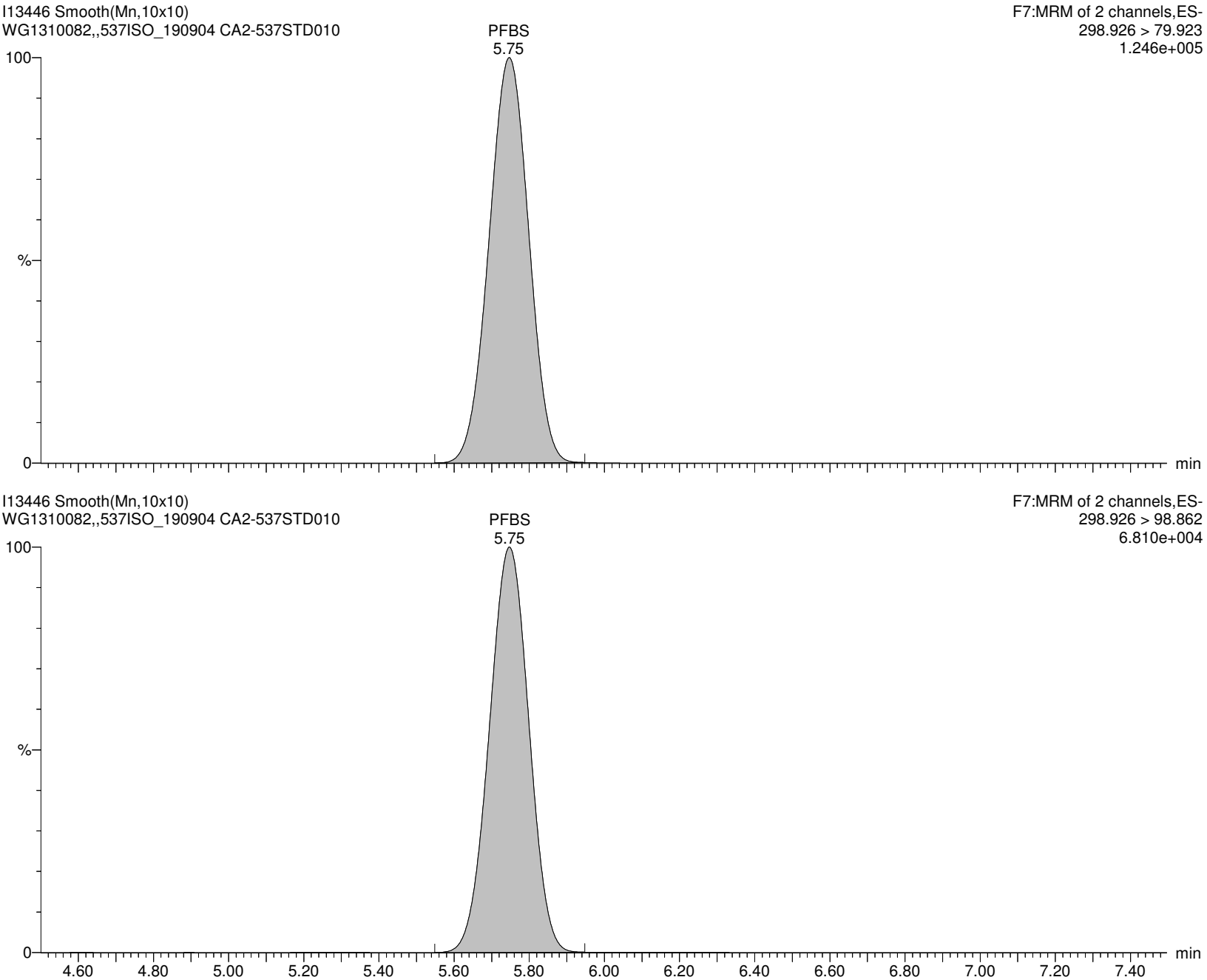

all concentration units in (ng/mL)

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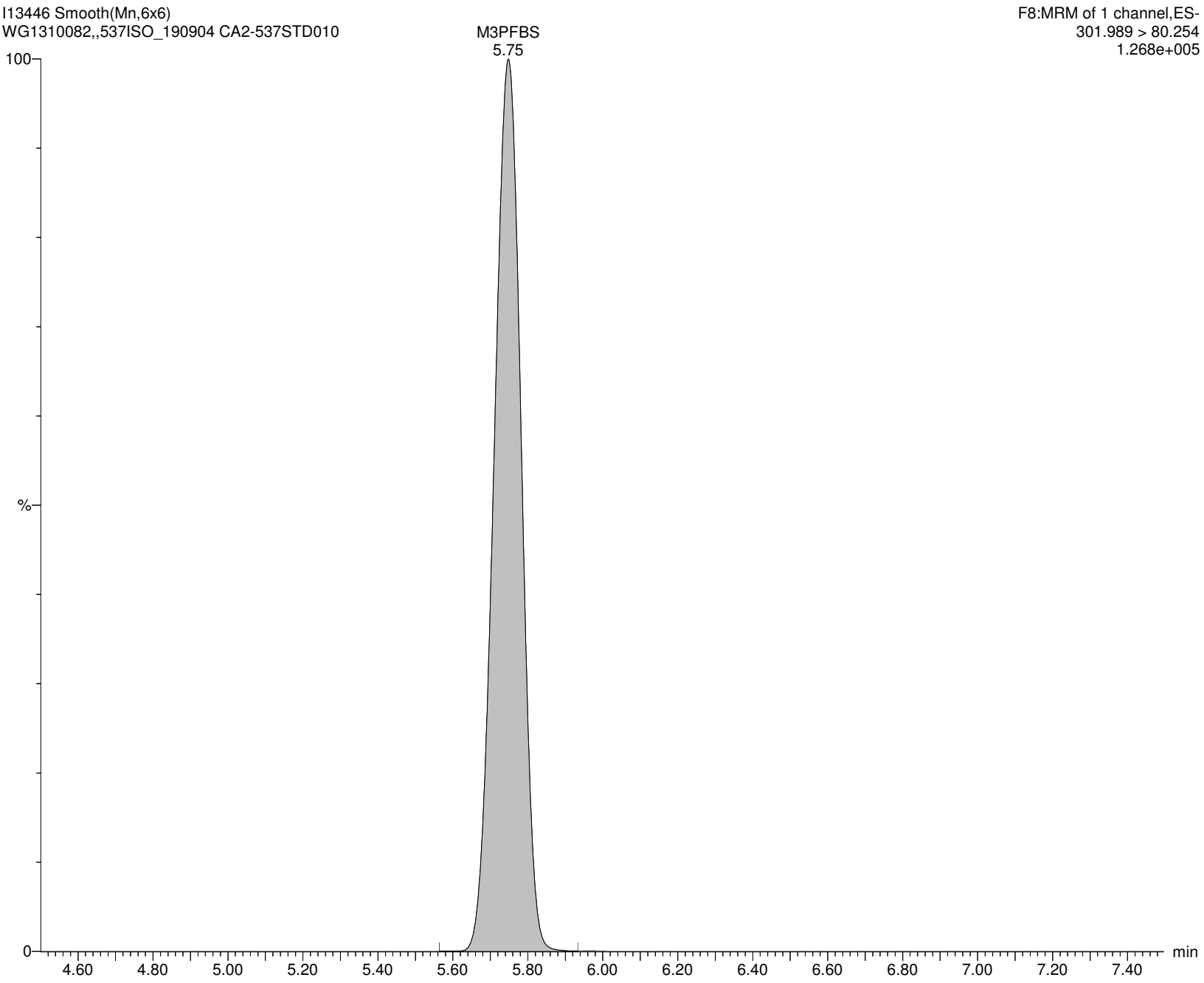

all concentration units in (ng/mL)

Alpha Analytical Inc.
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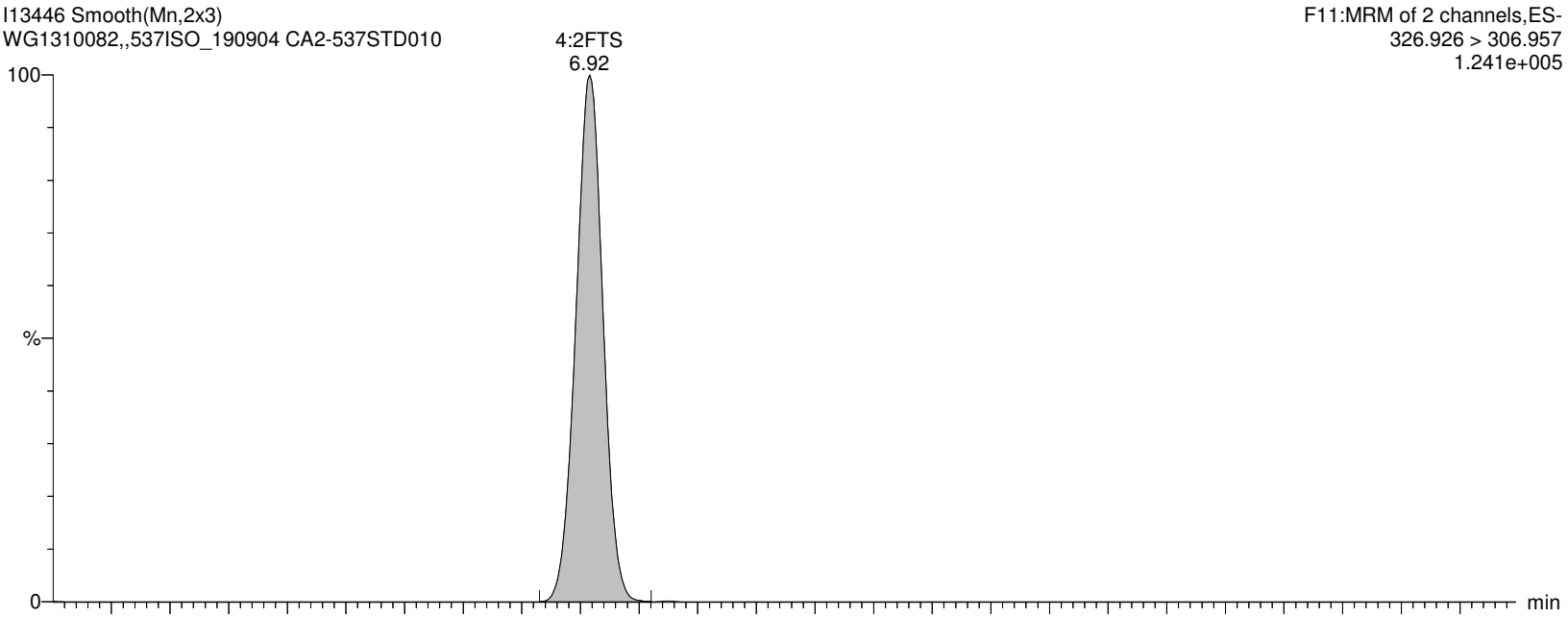
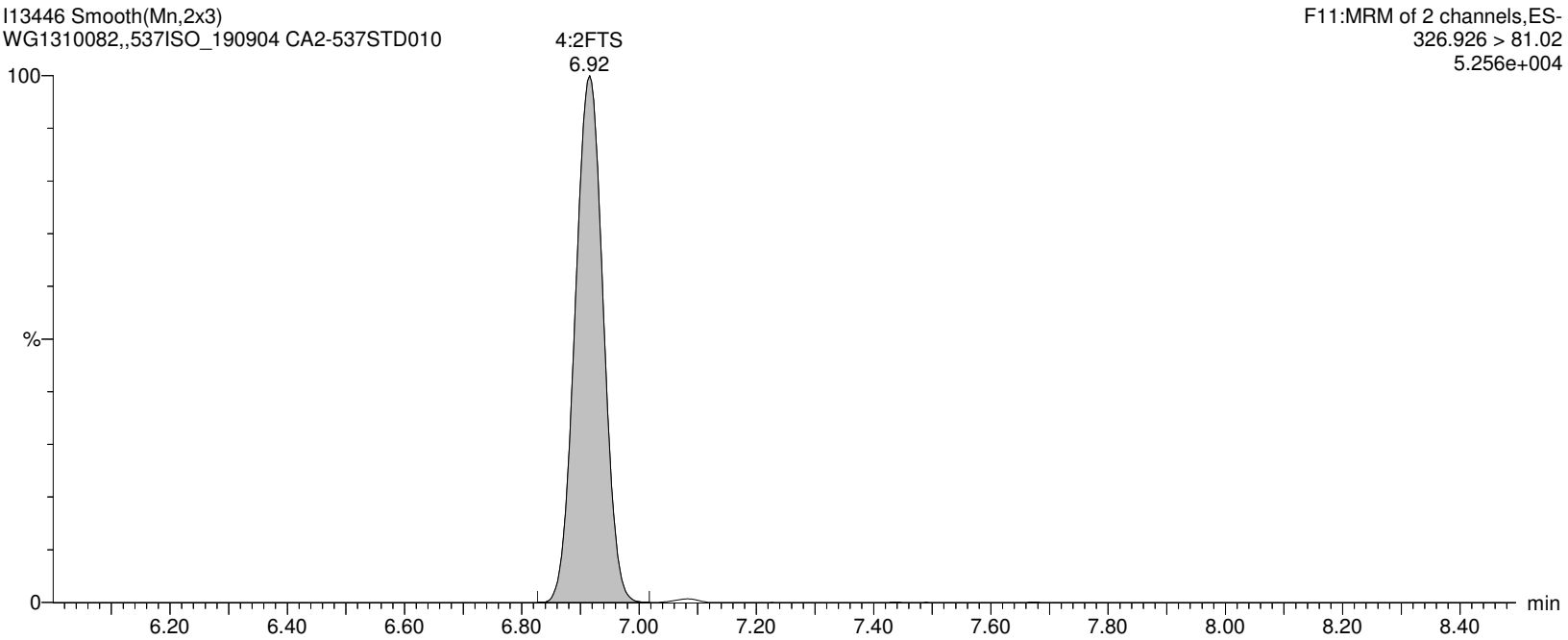
4:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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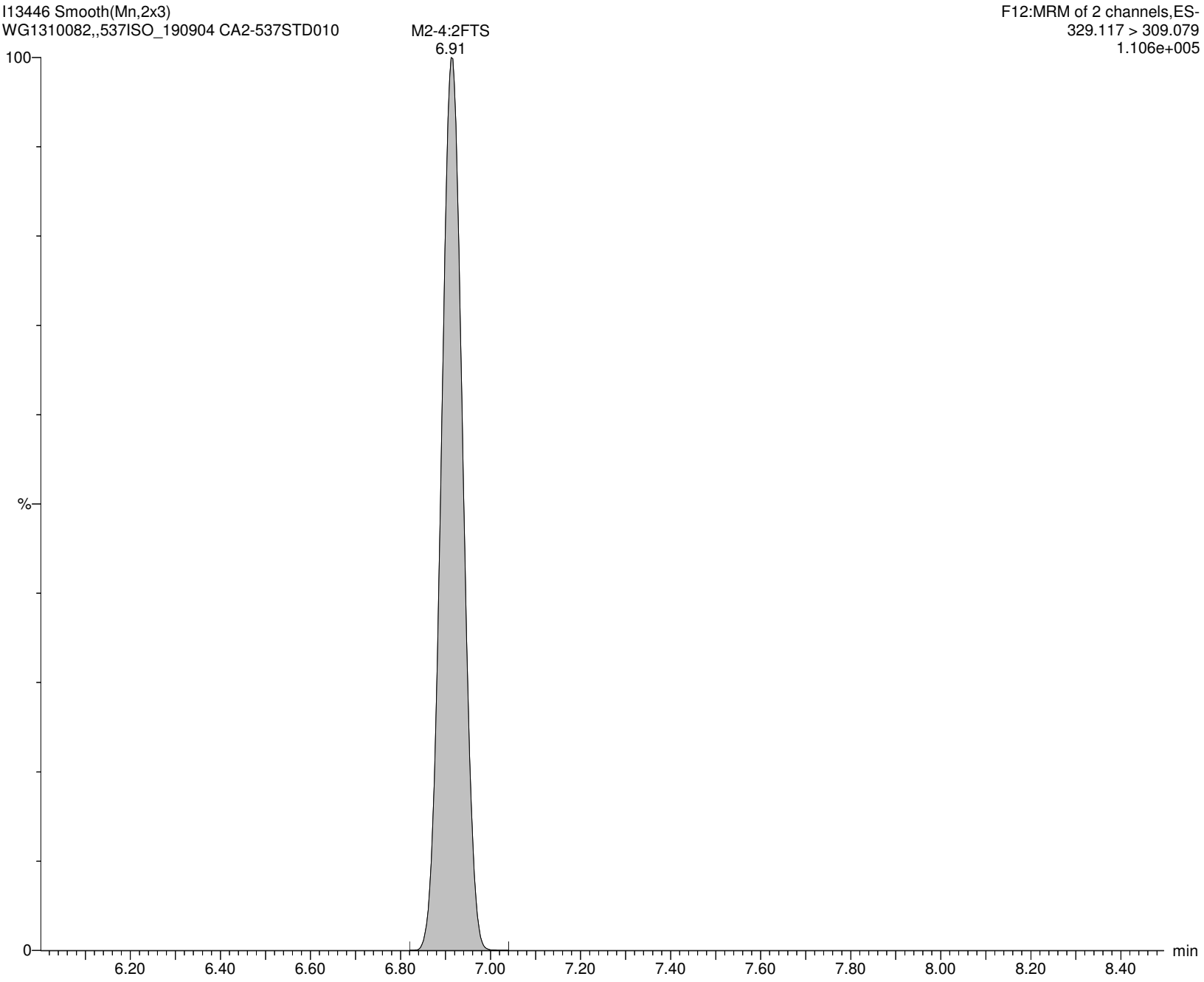

all concentration units in (ng/mL)

Alpha Analytical Inc.
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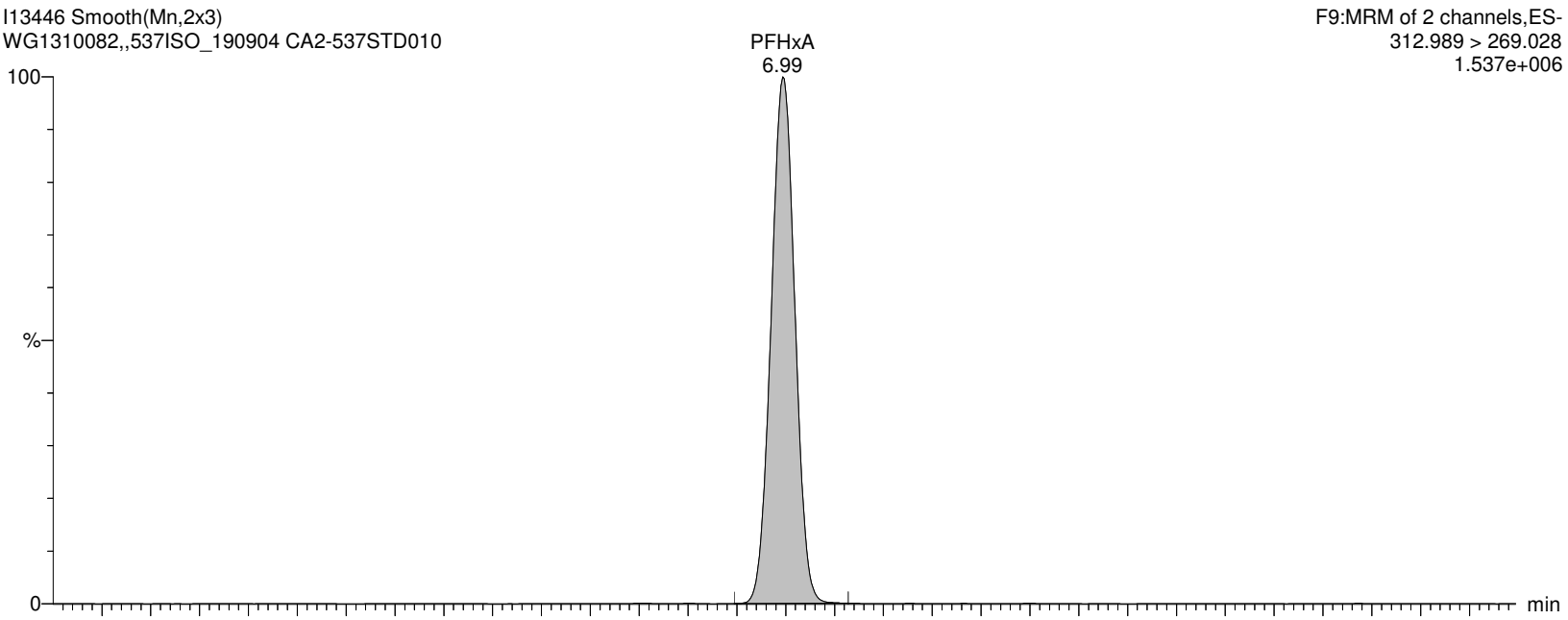
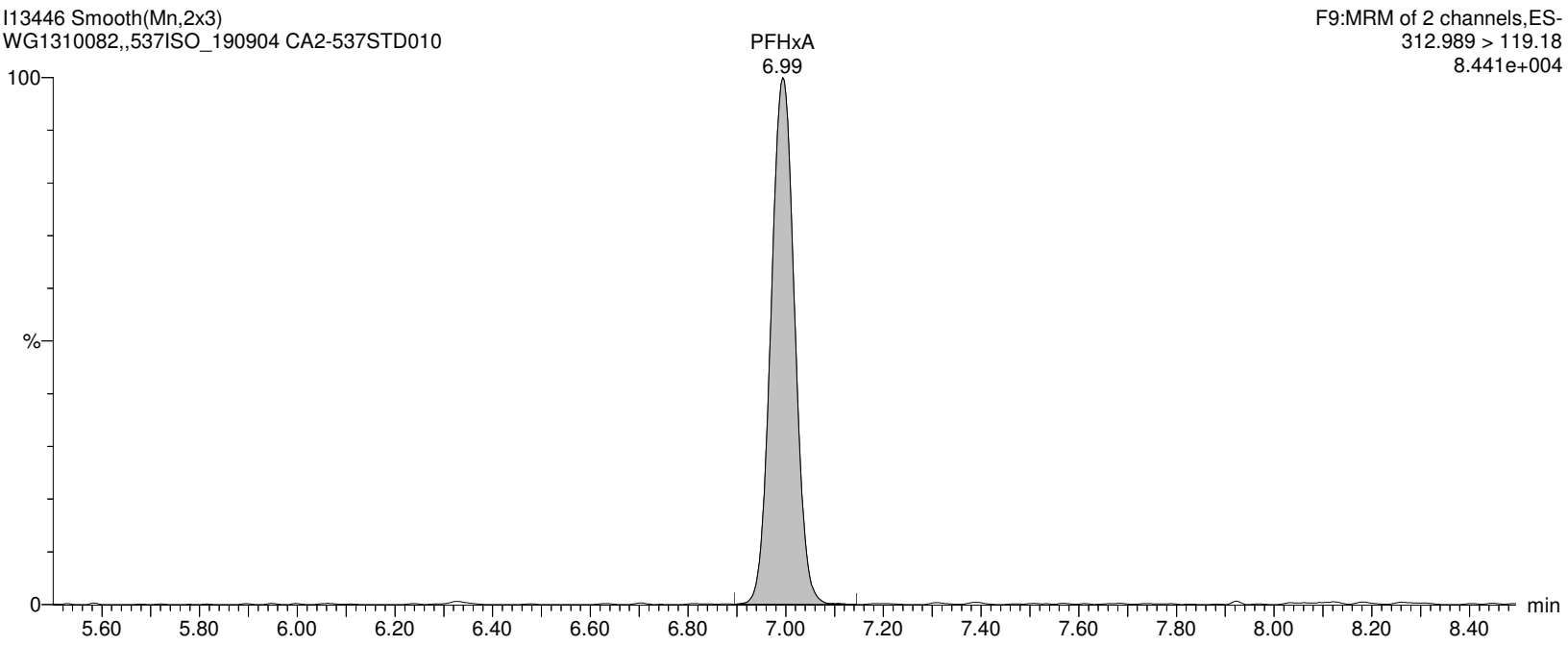
PFHxA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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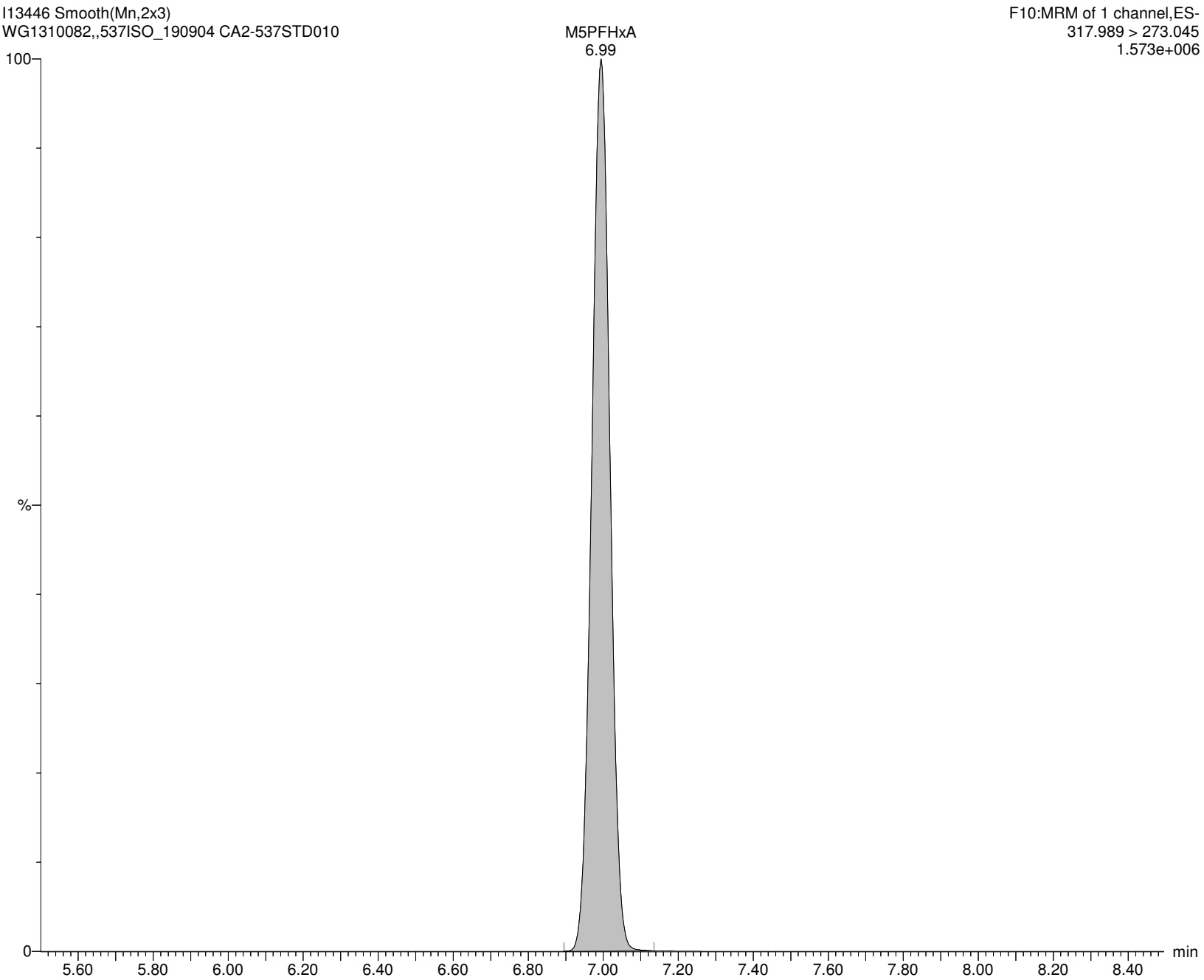

all concentration units in (ng/mL)

Alpha Analytical Inc.
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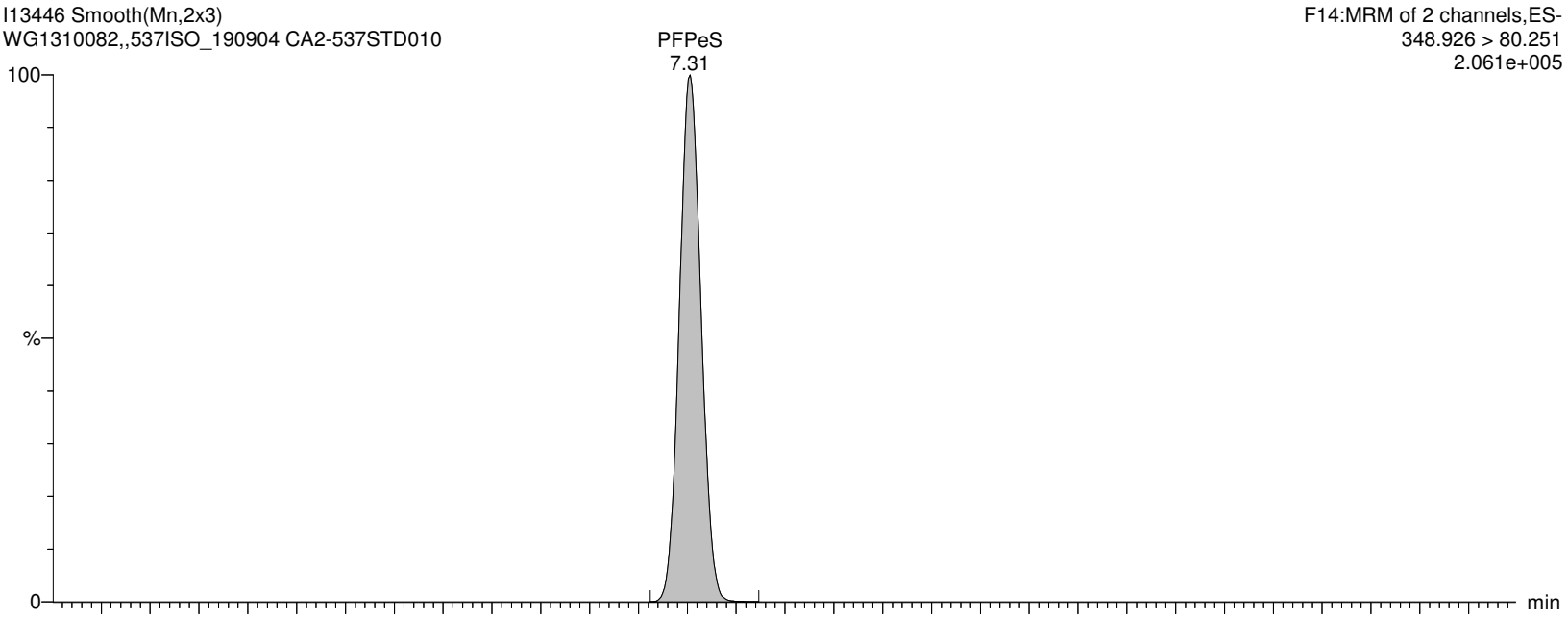

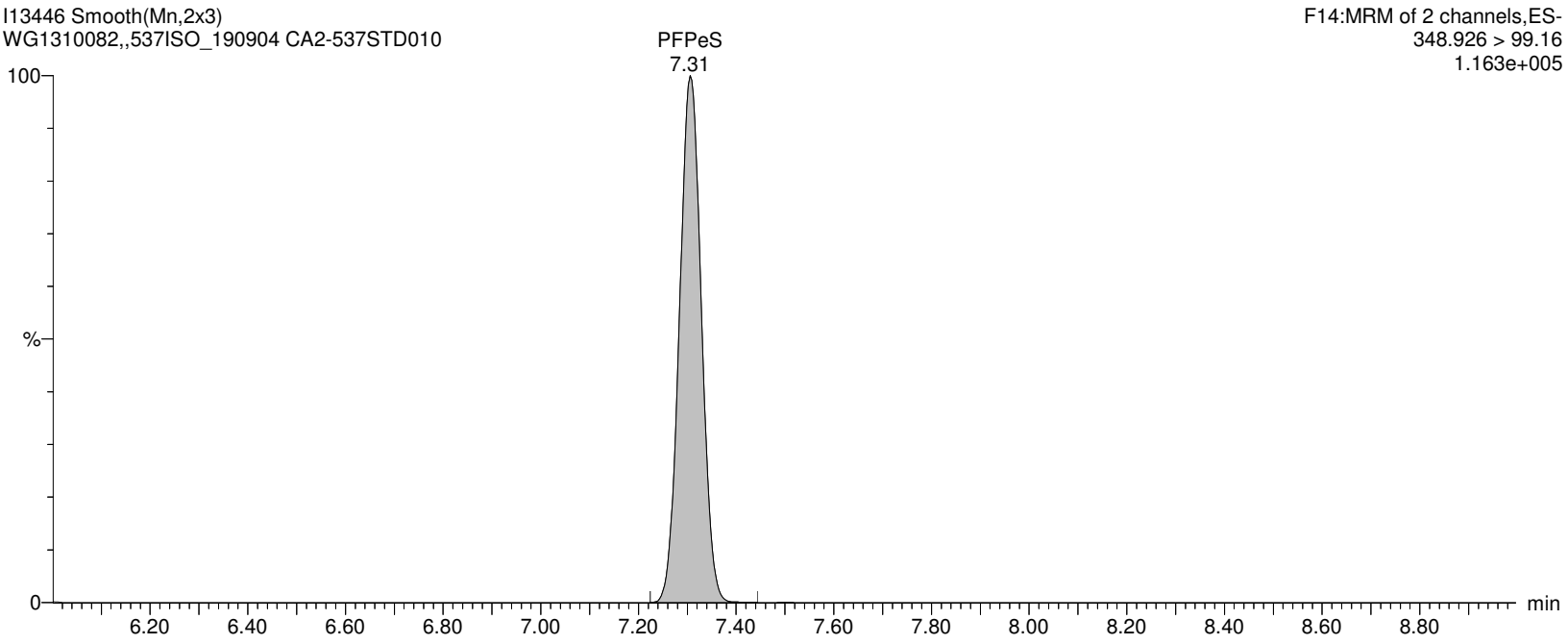

all concentration units in (ng/mL)

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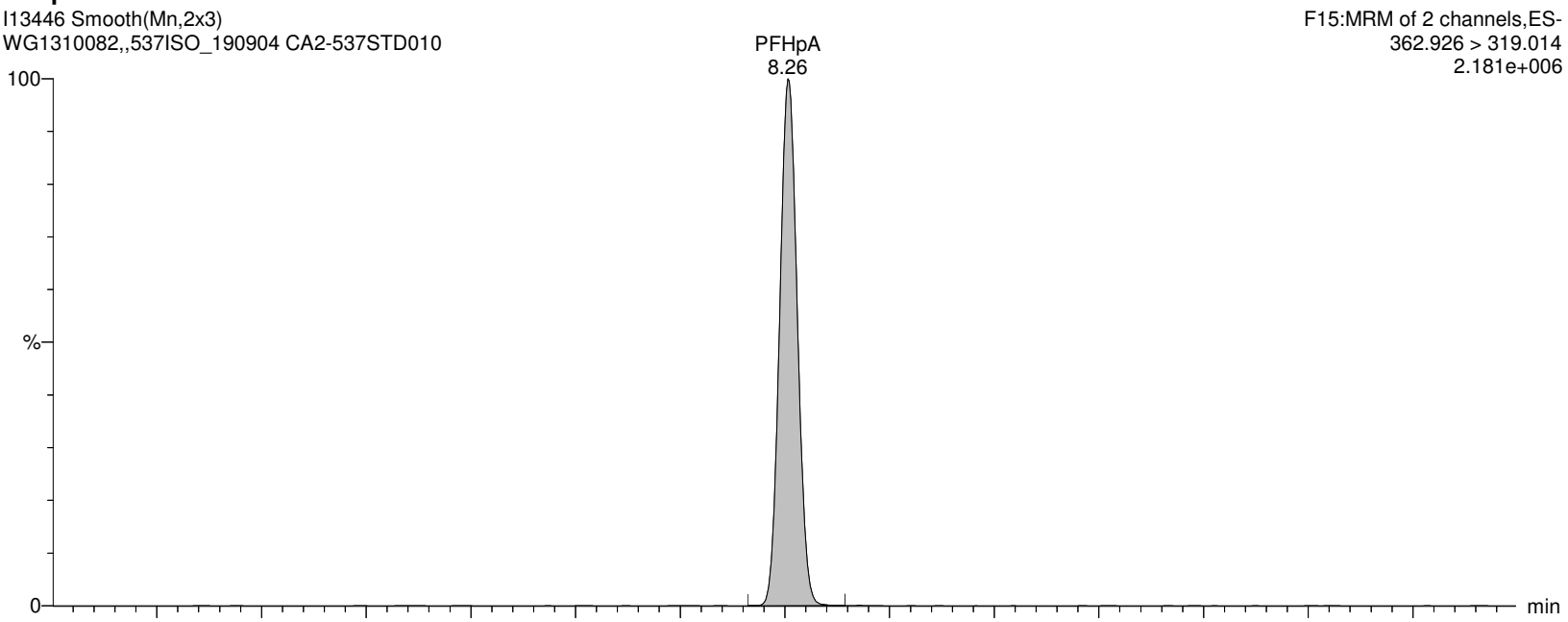

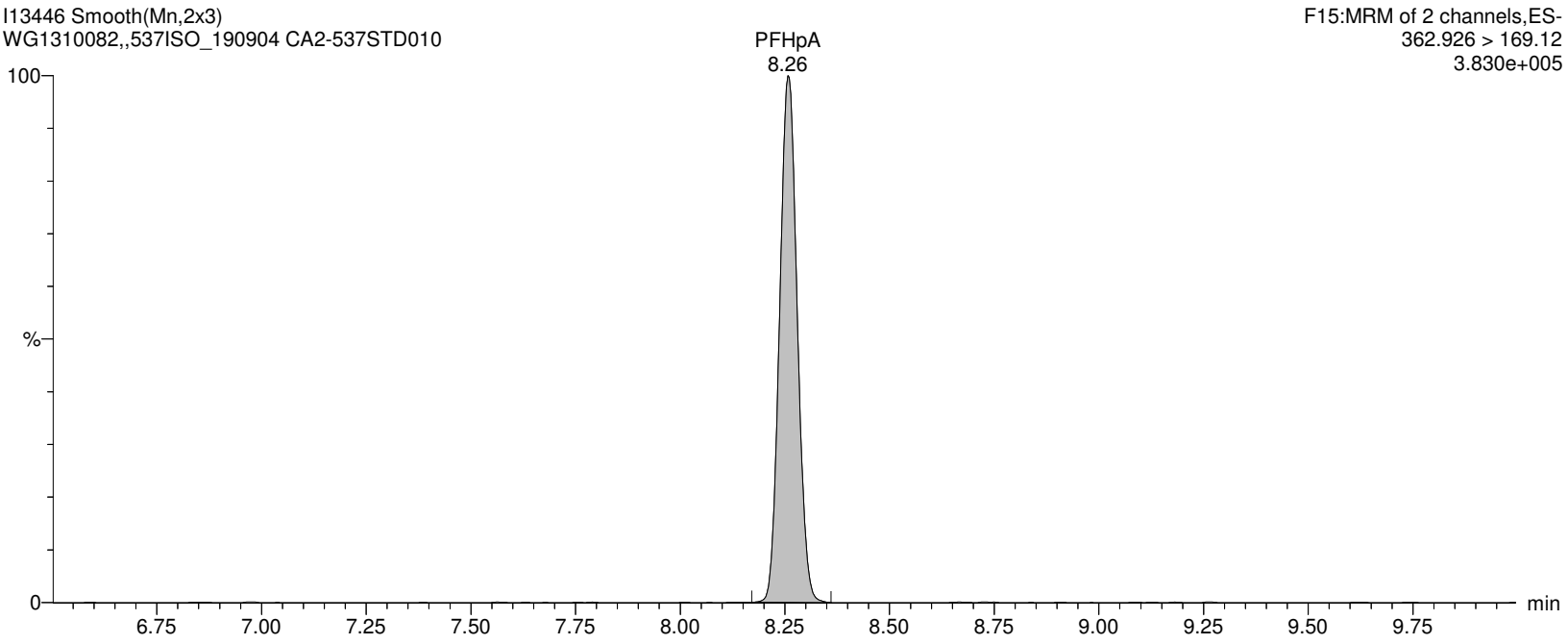

all concentration units in (ng/mL)

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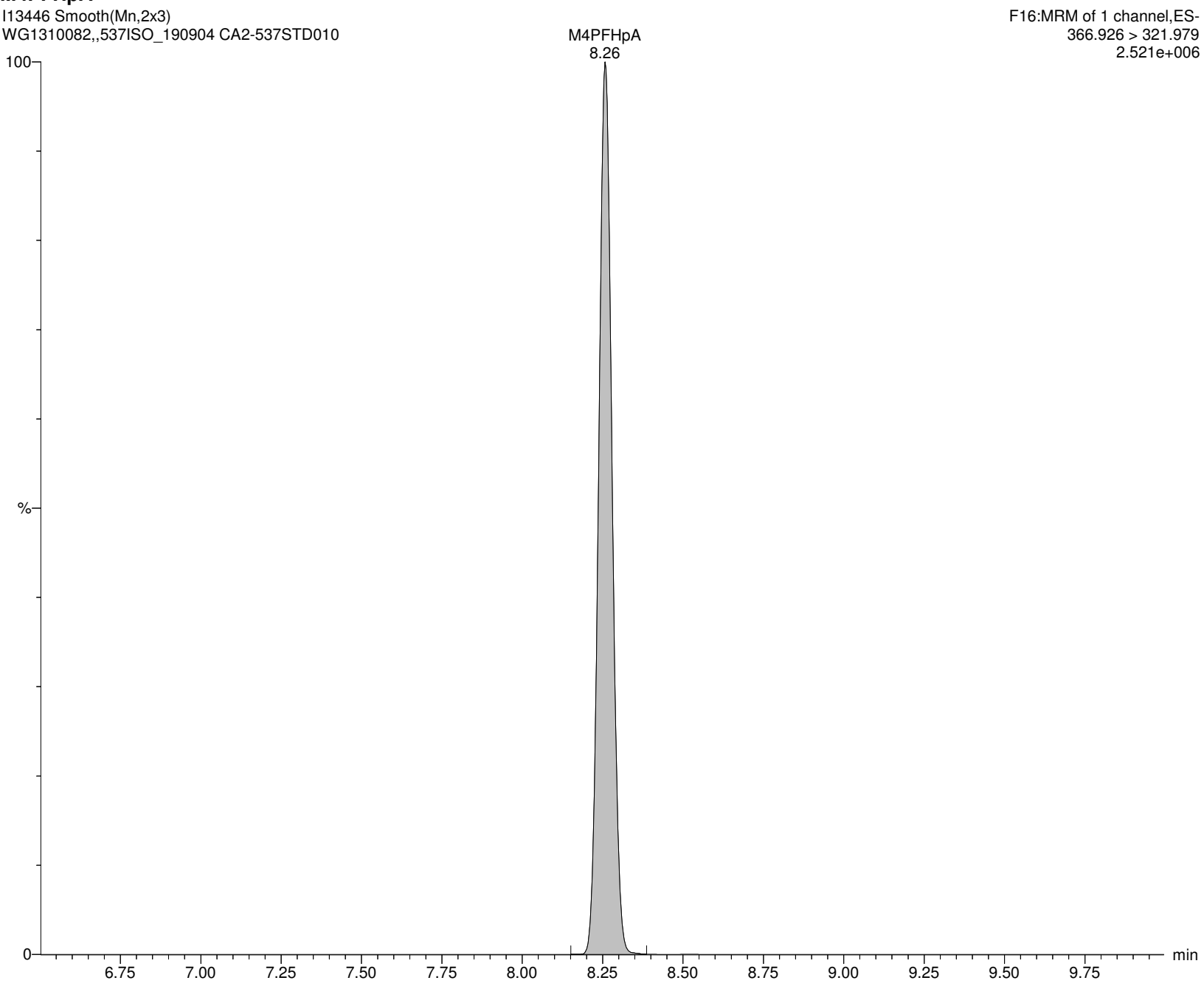

all concentration units in (ng/mL)

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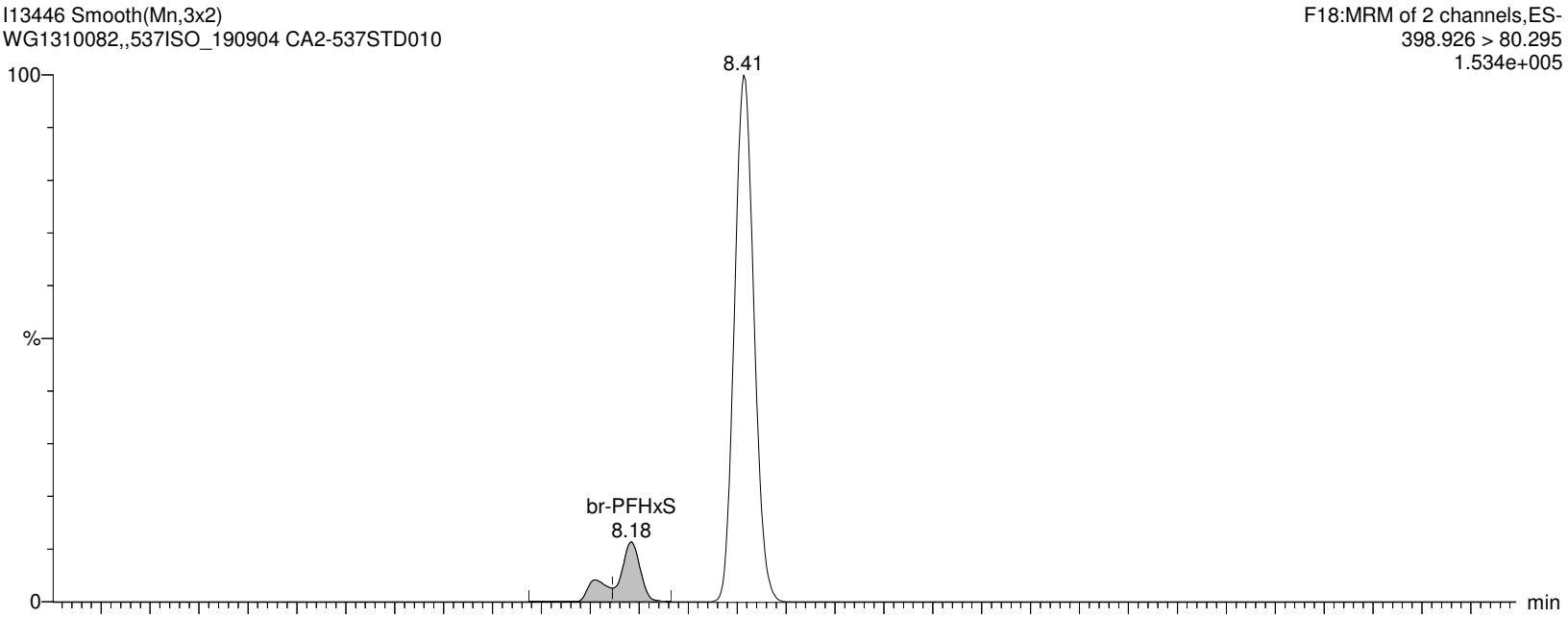

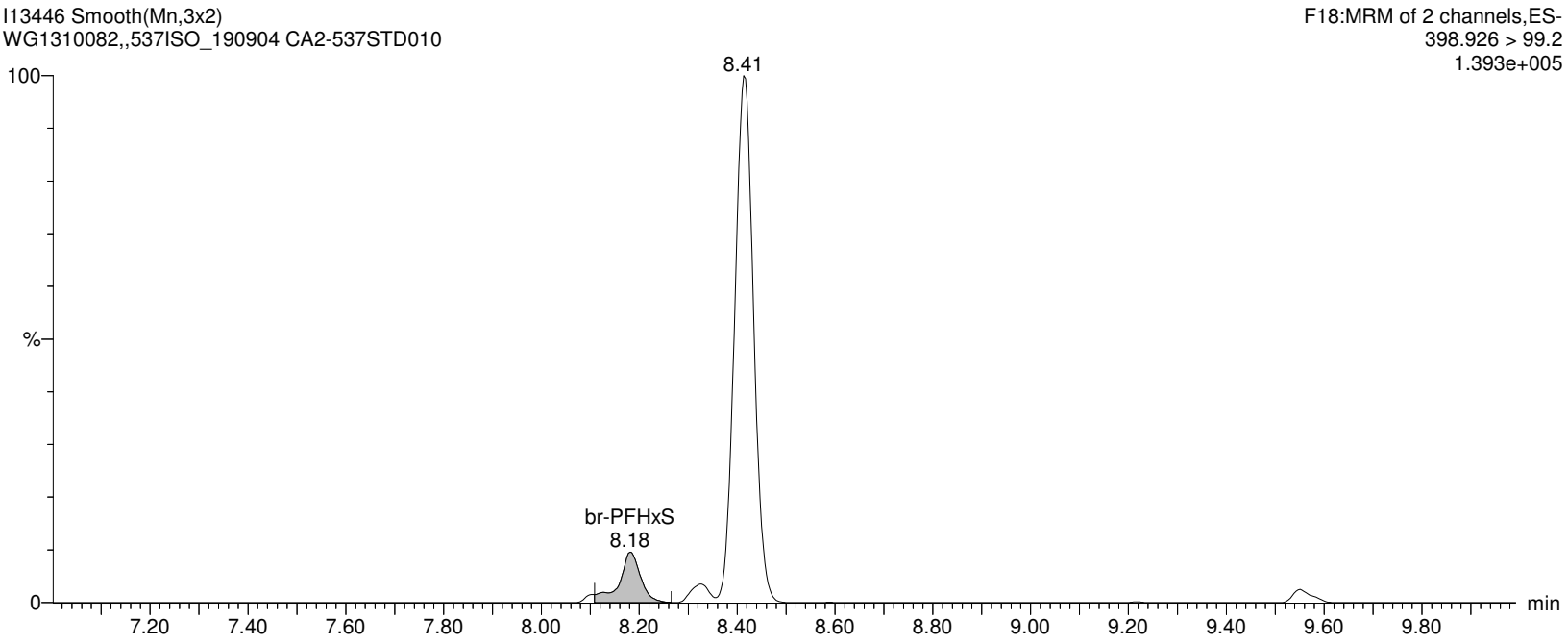

all concentration units in (ng/mL)

Alpha Analytical Inc.
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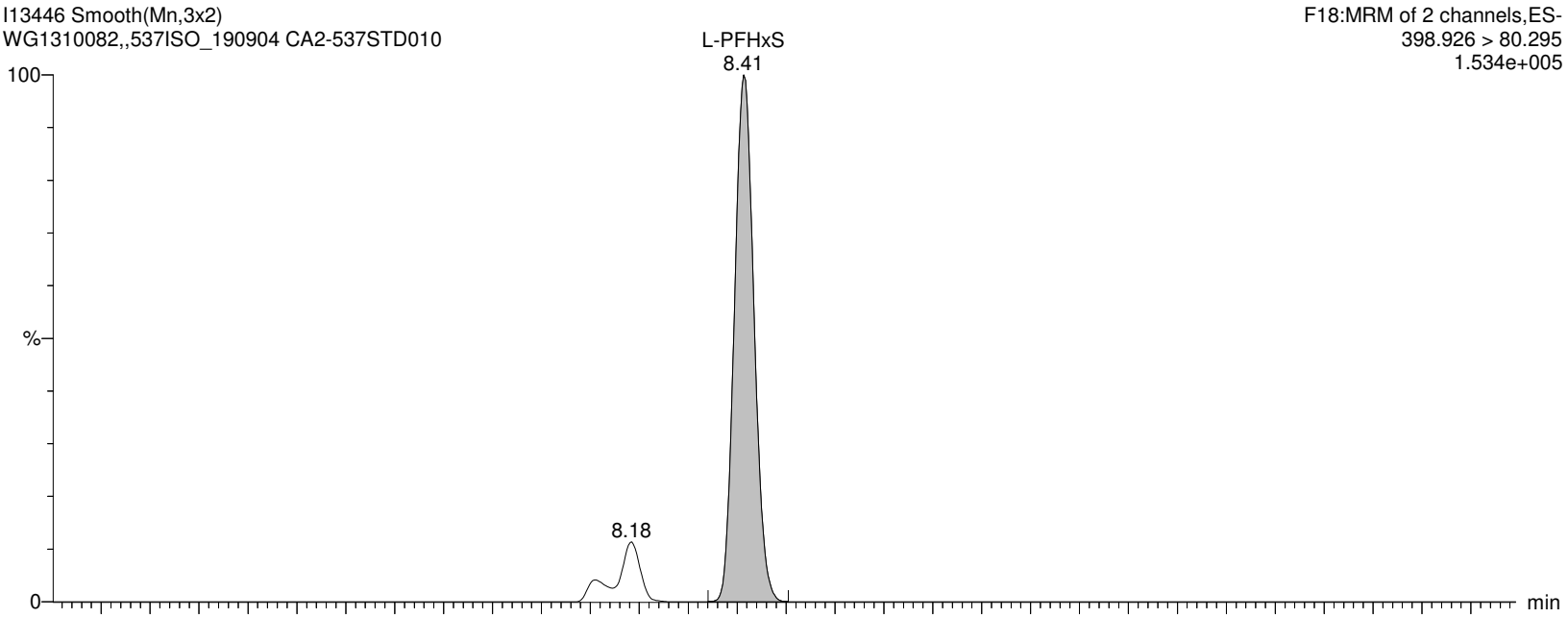

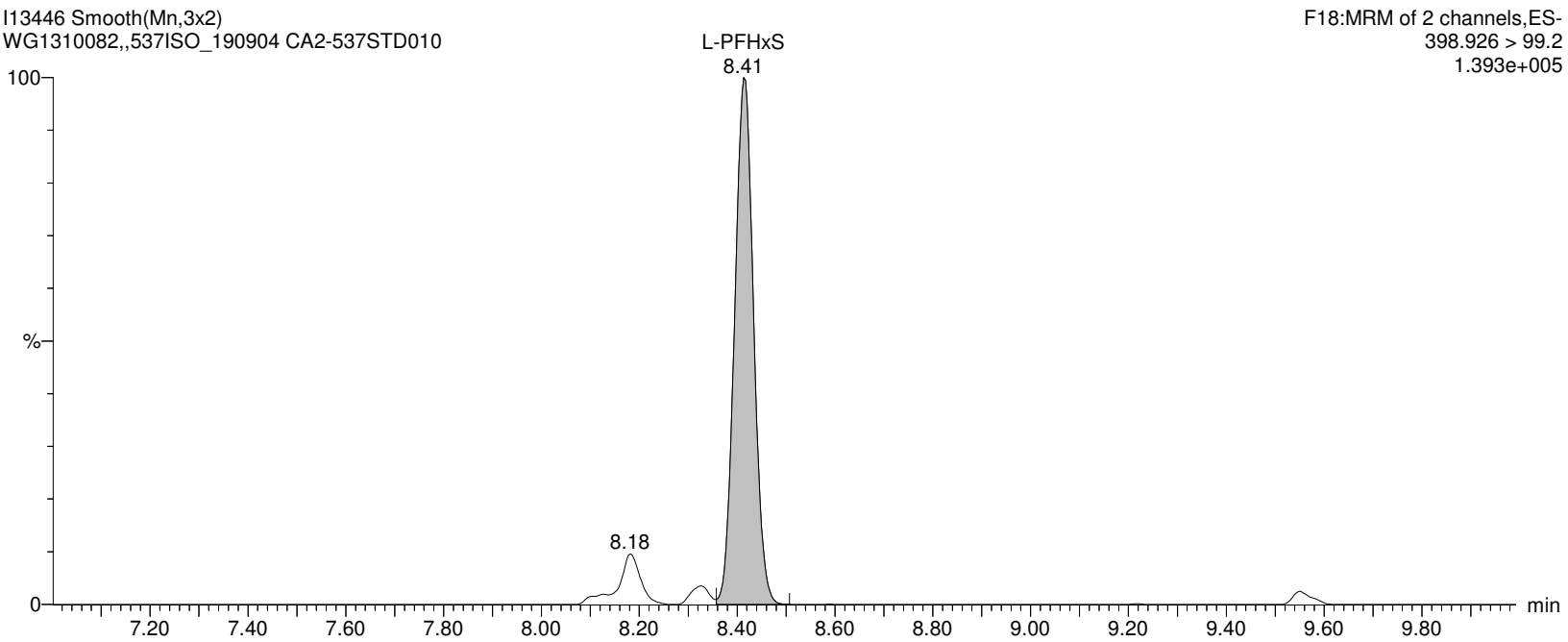

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

Name: I13446
ID: CA2-537STD010
Date: 18-Nov-2019
Time: 14:05:52
Description: WG1310082,,537ISO_190904
User: LCMS02:JW
Vial: 1:B,3
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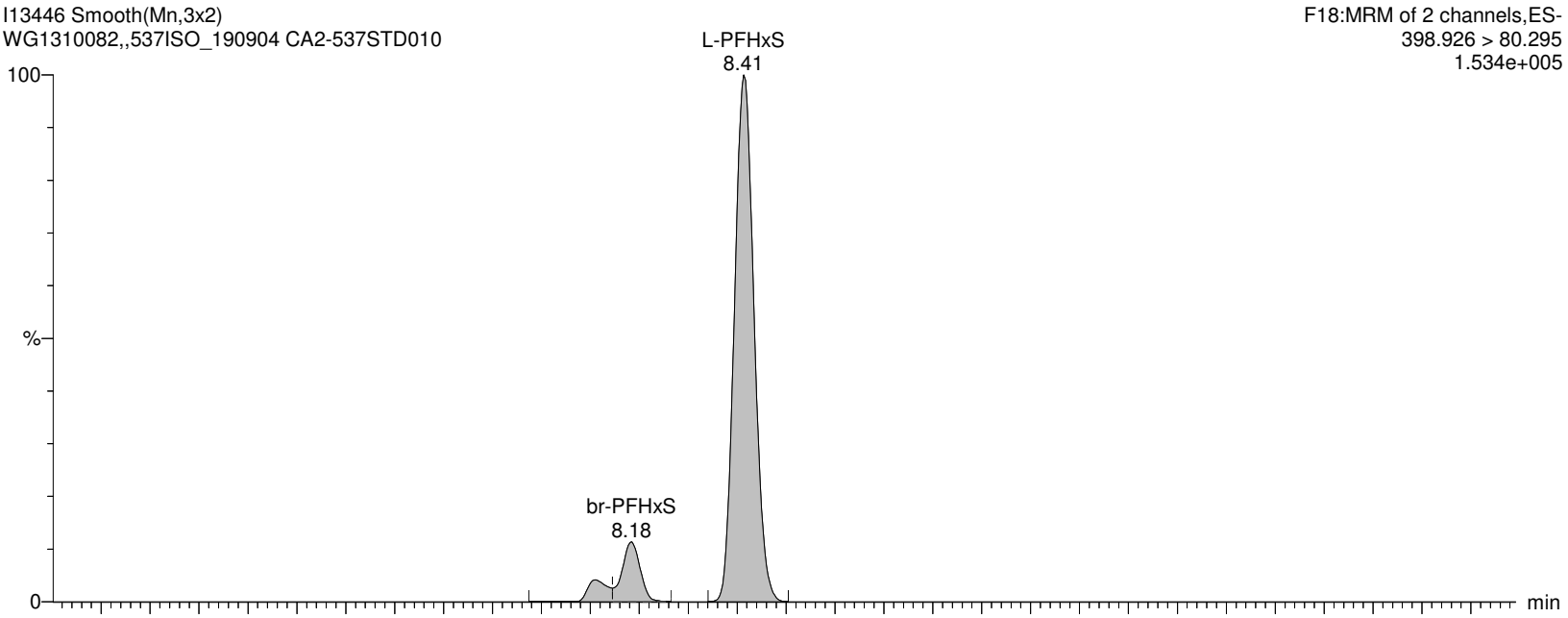

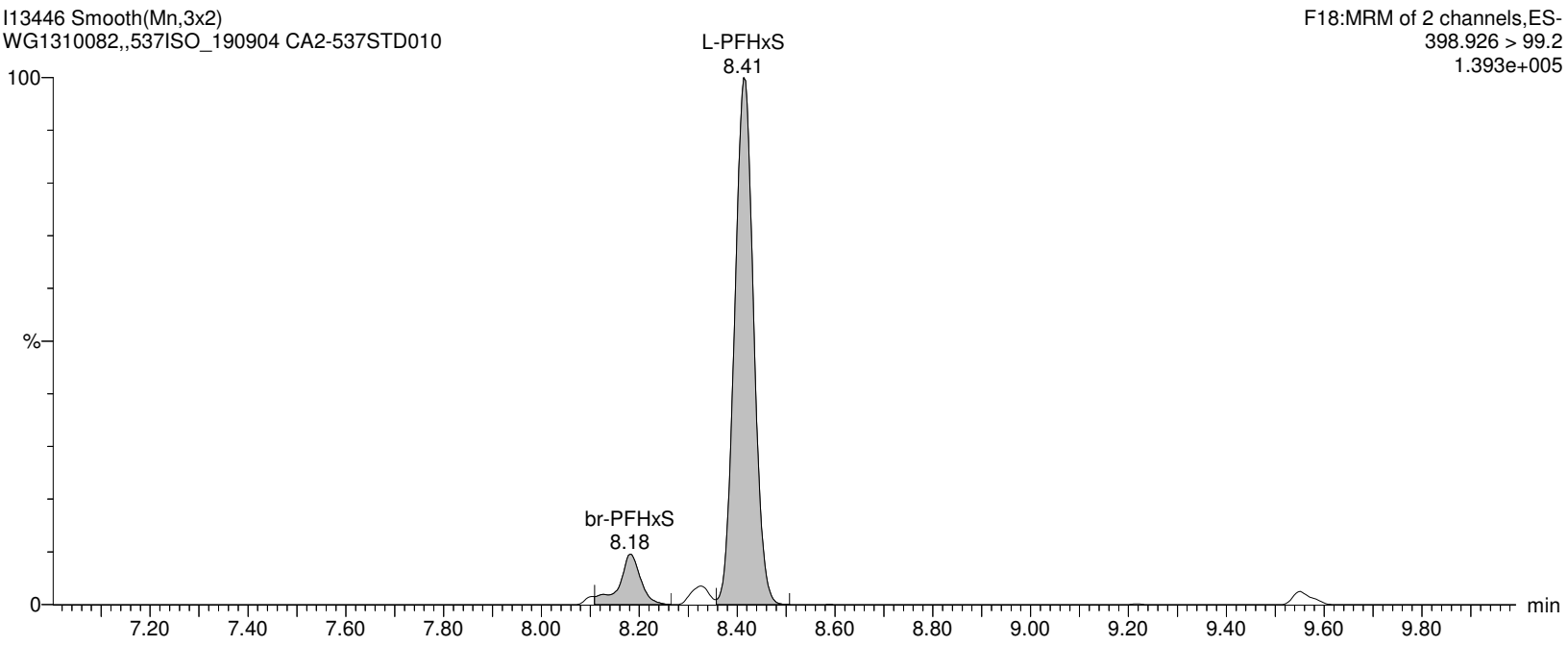

all concentration units in (ng/mL)

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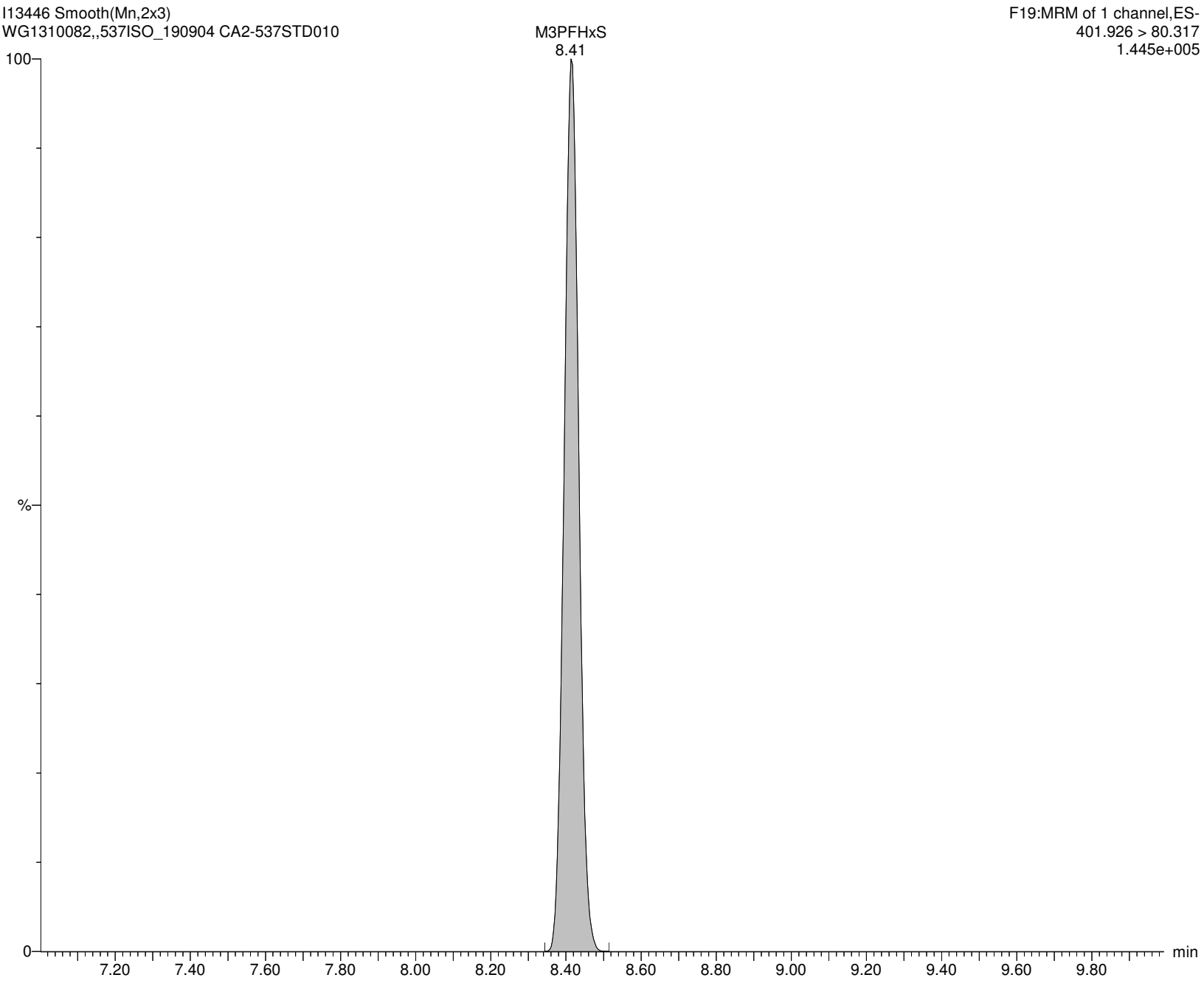

all concentration units in (ng/mL)

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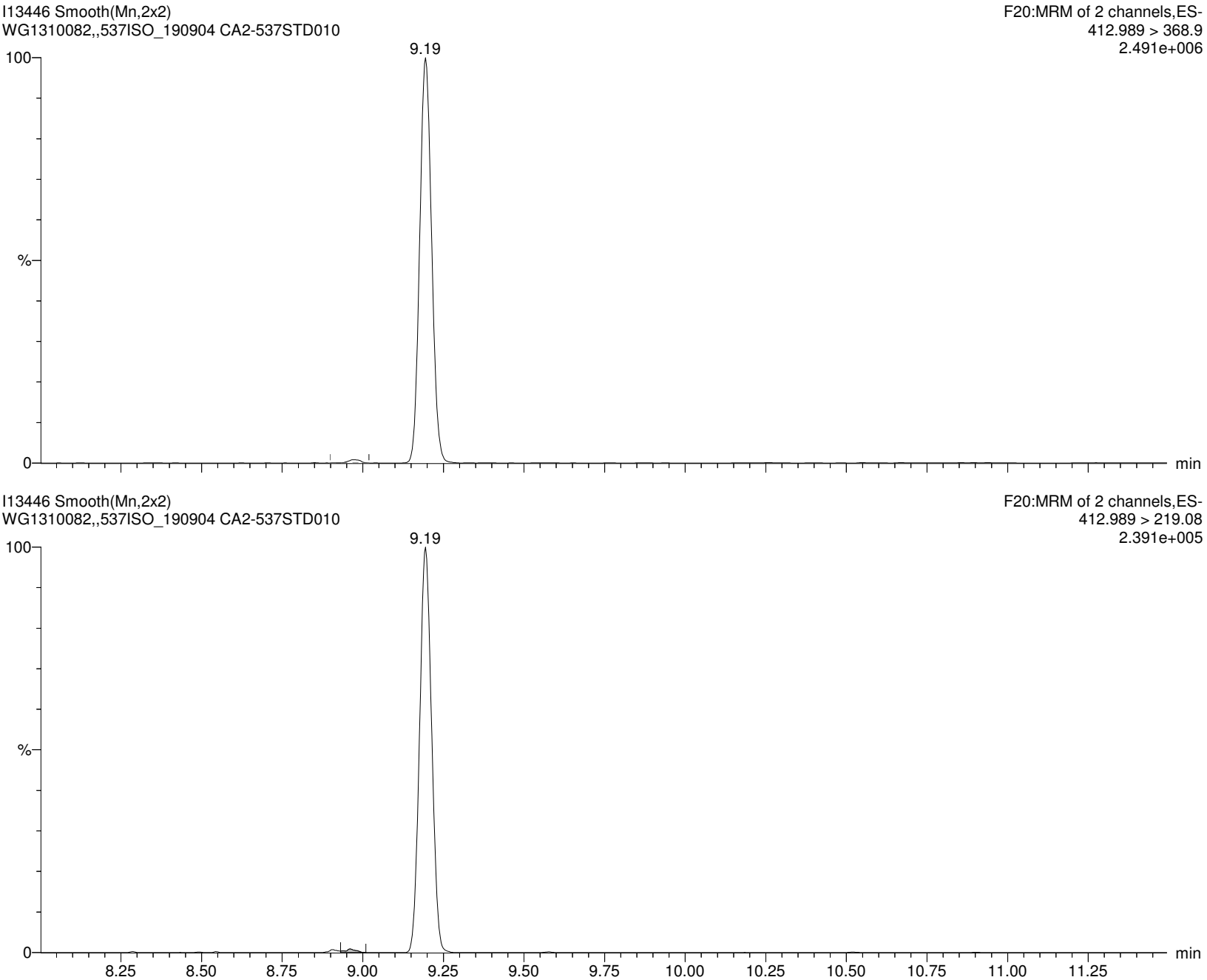

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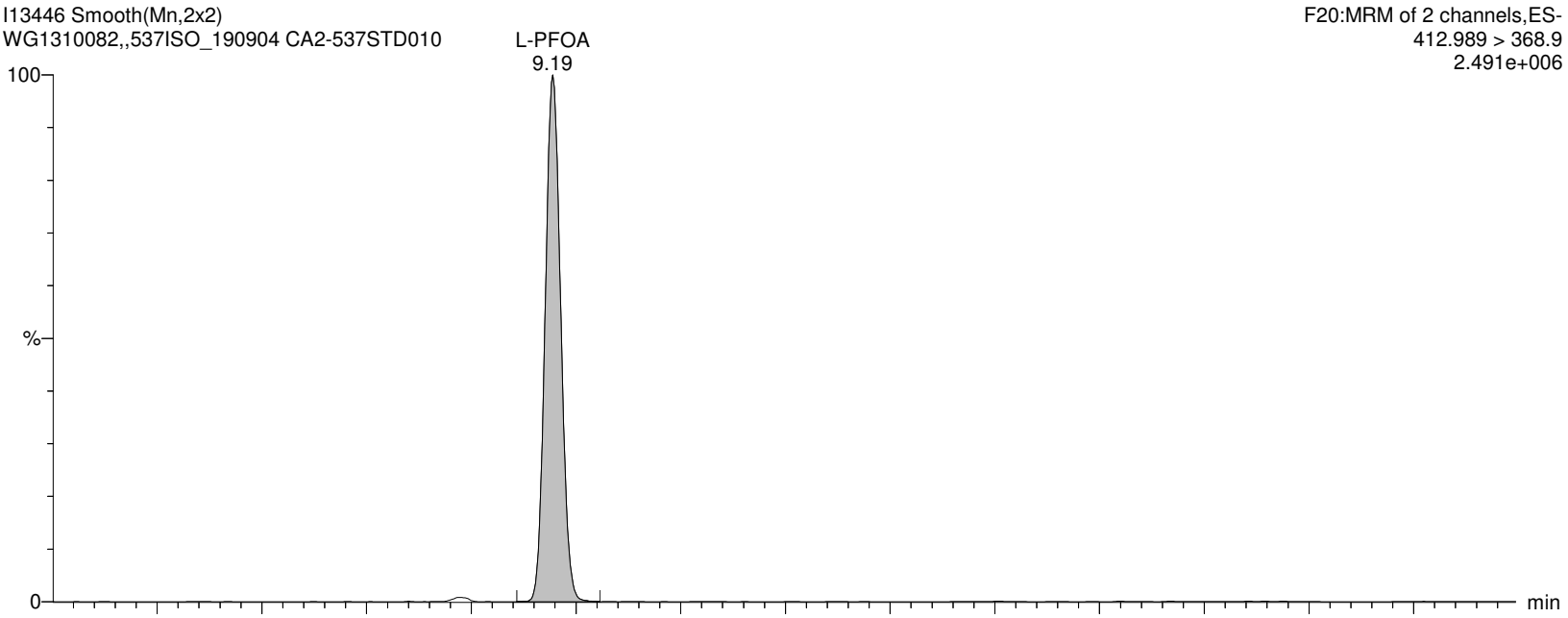

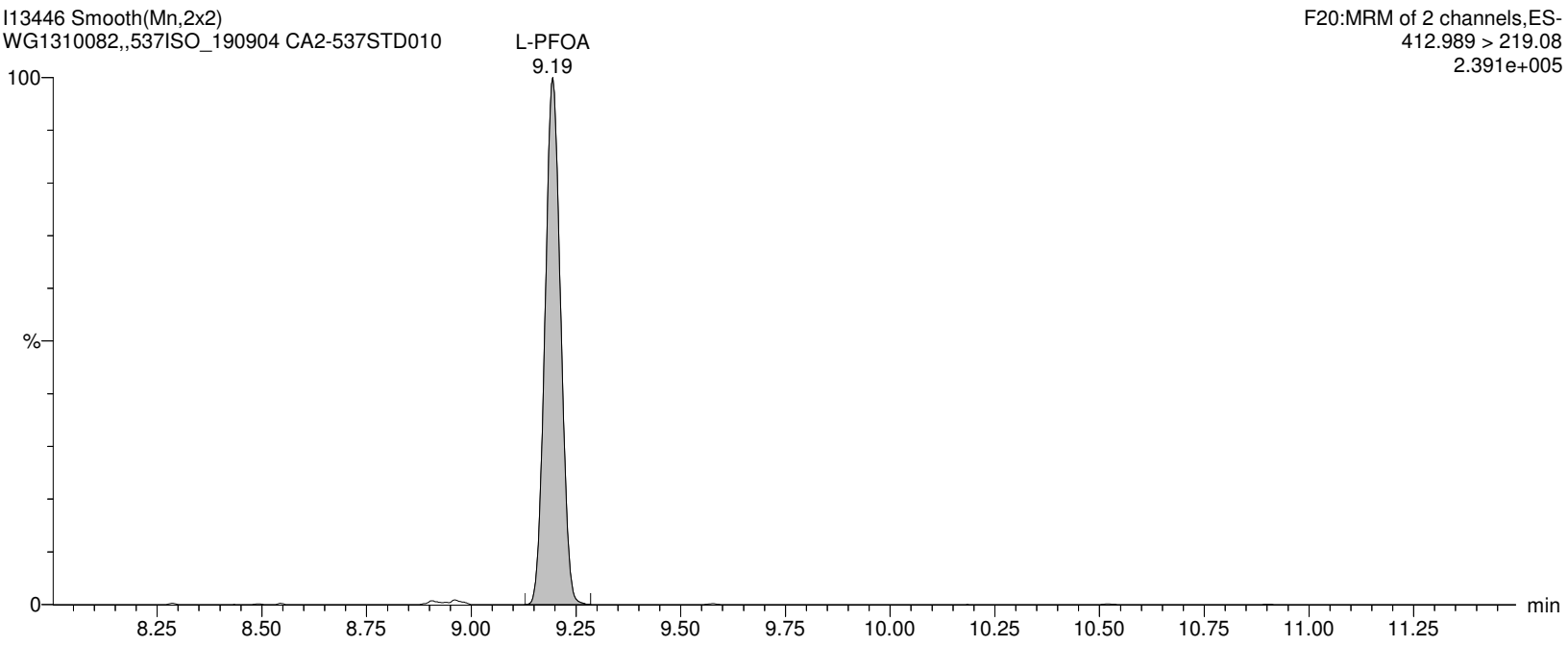

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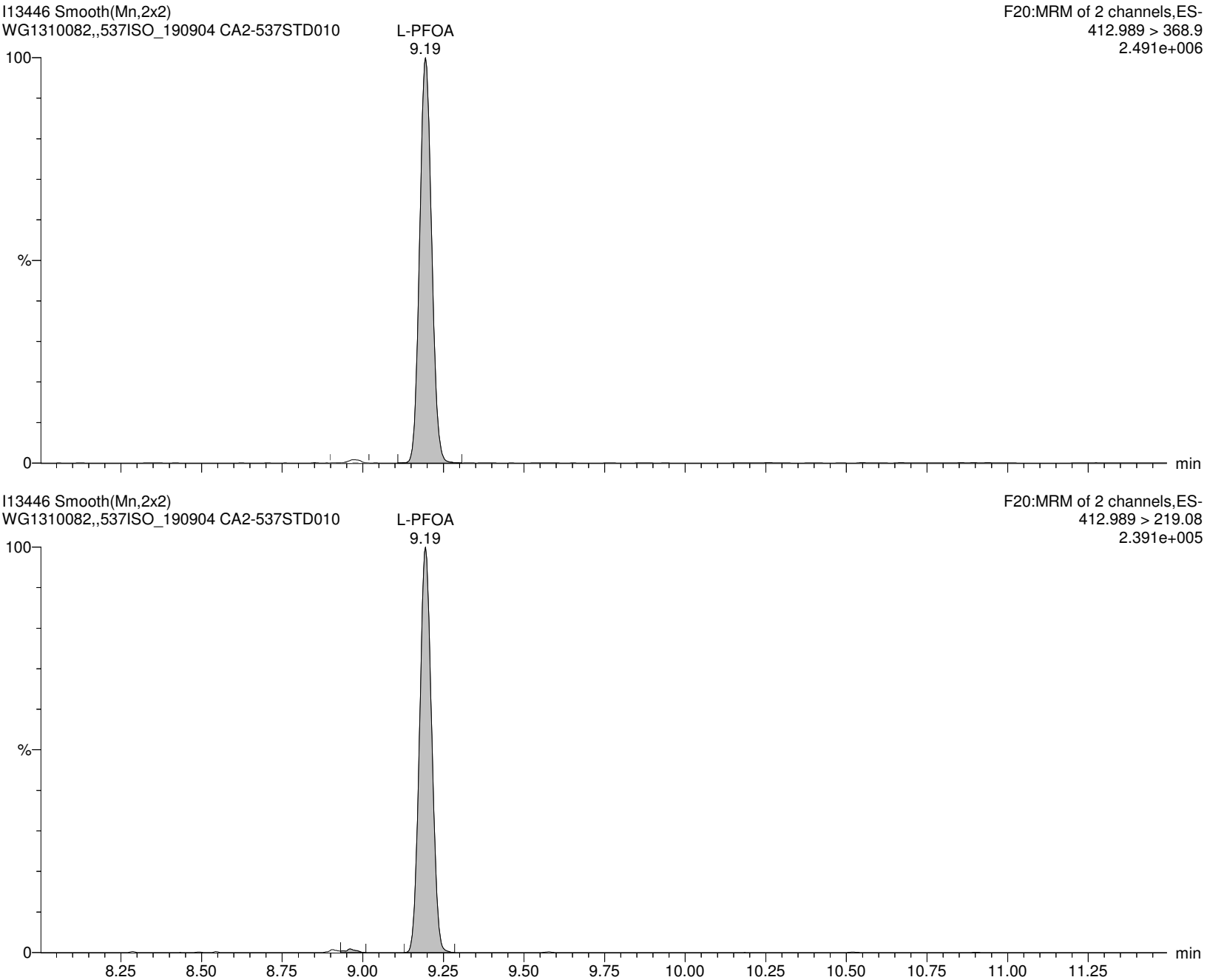

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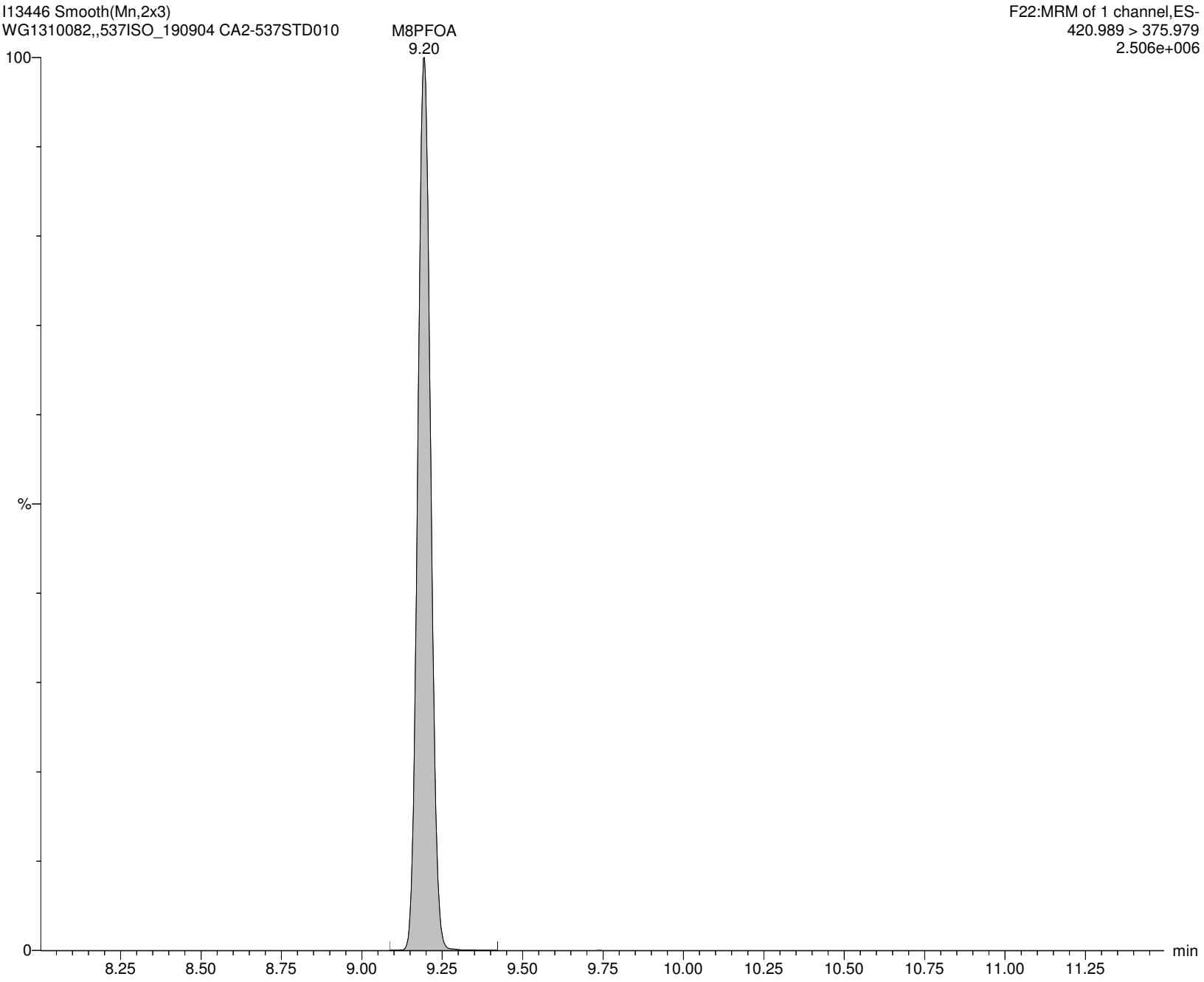

all concentration units in (ng/mL)

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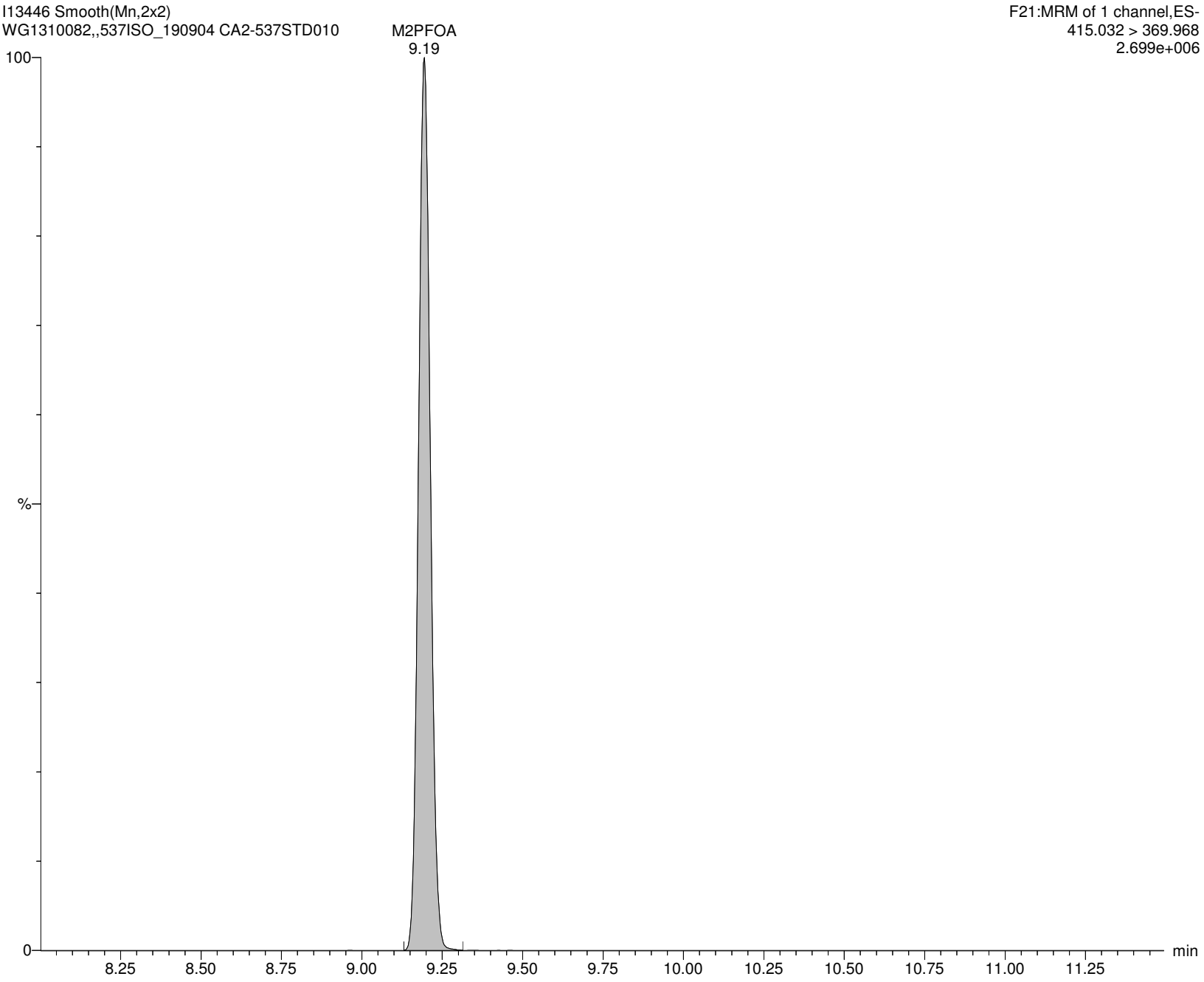

all concentration units in (ng/mL)

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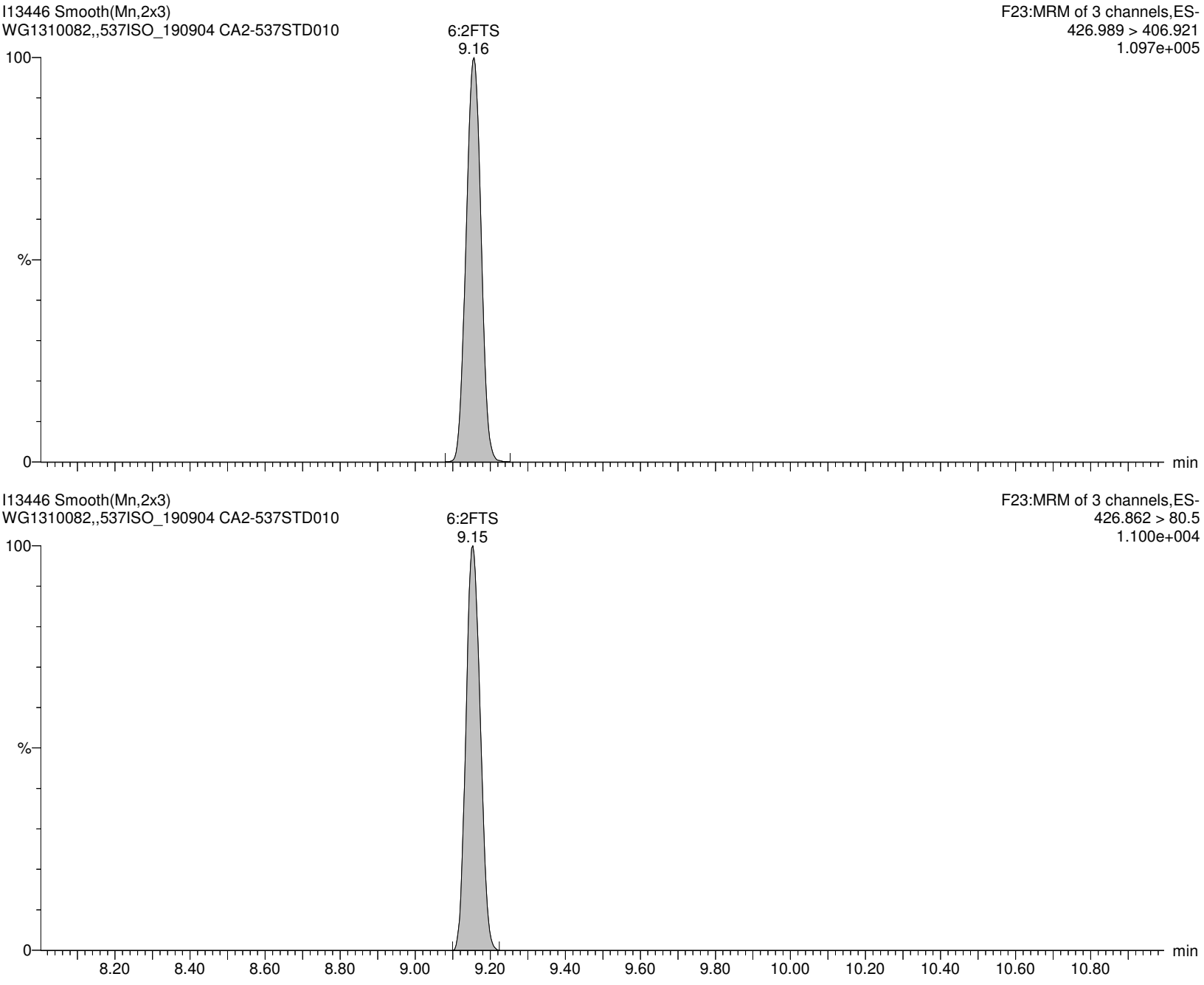

all concentration units in (ng/mL)

Alpha Analytical Inc.
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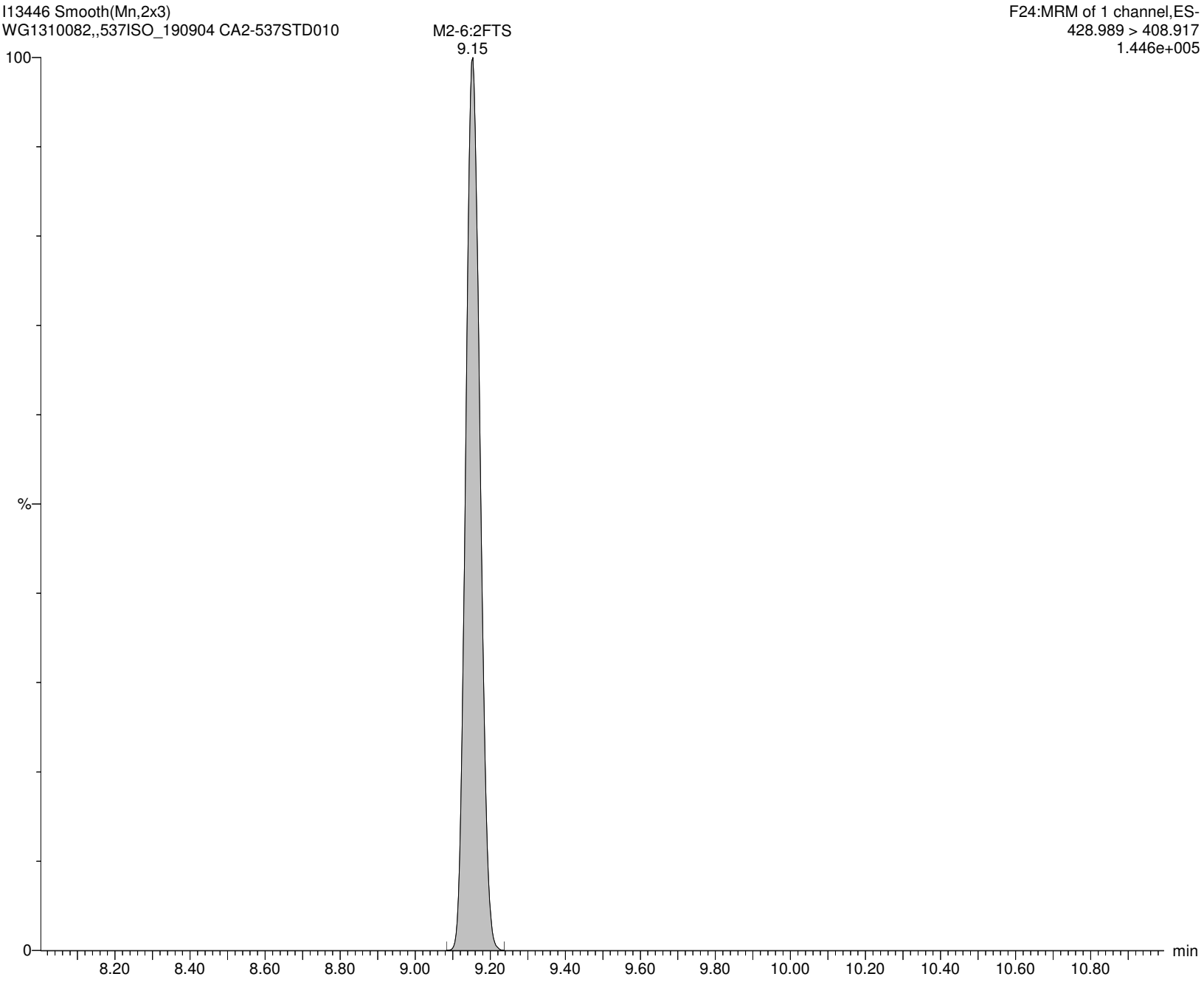

all concentration units in (ng/mL)

Alpha Analytical Inc.
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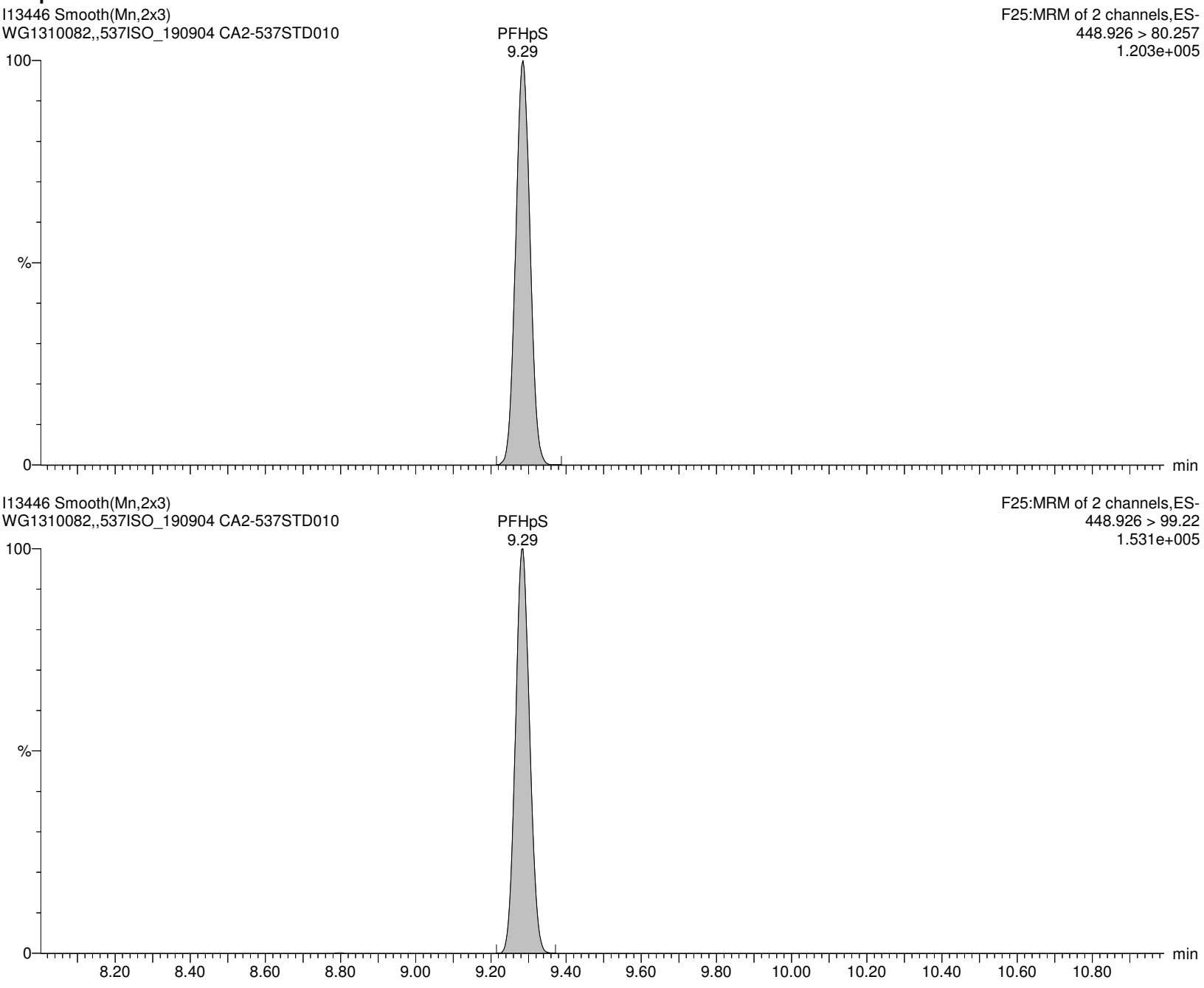

all concentration units in (ng/mL)

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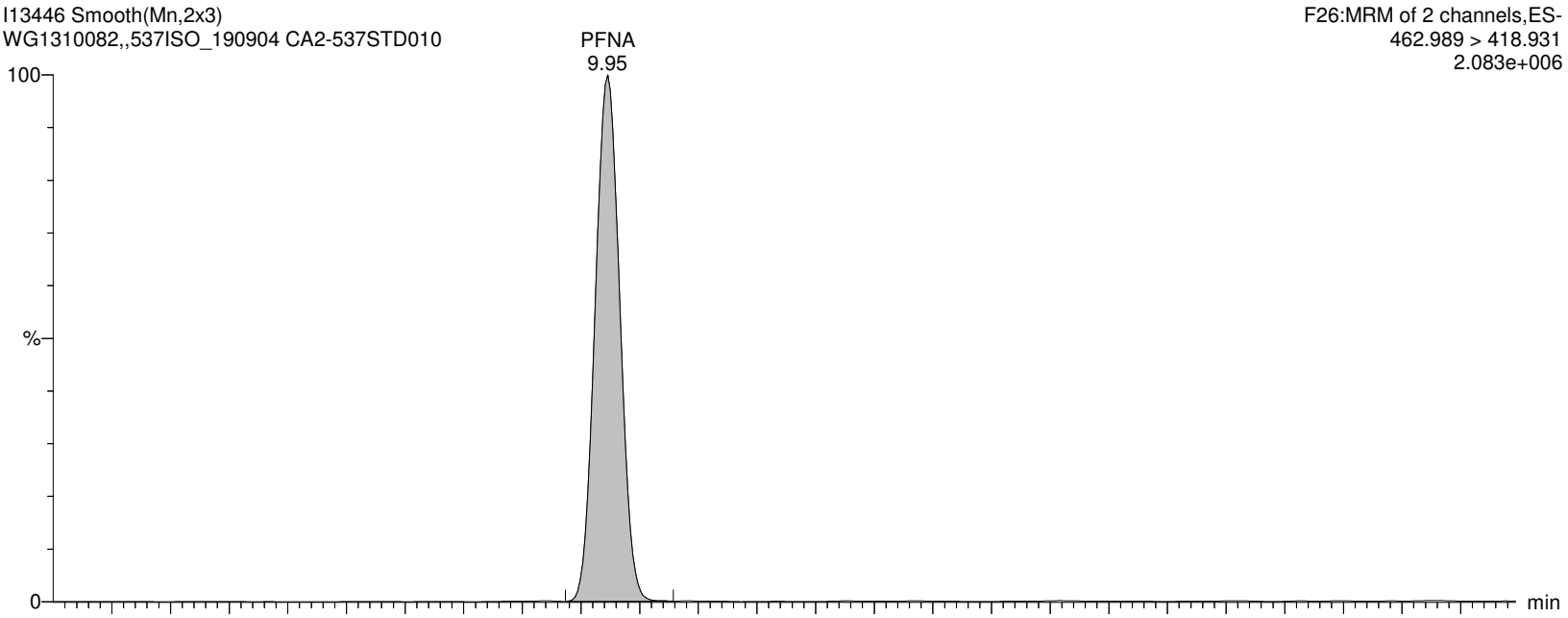

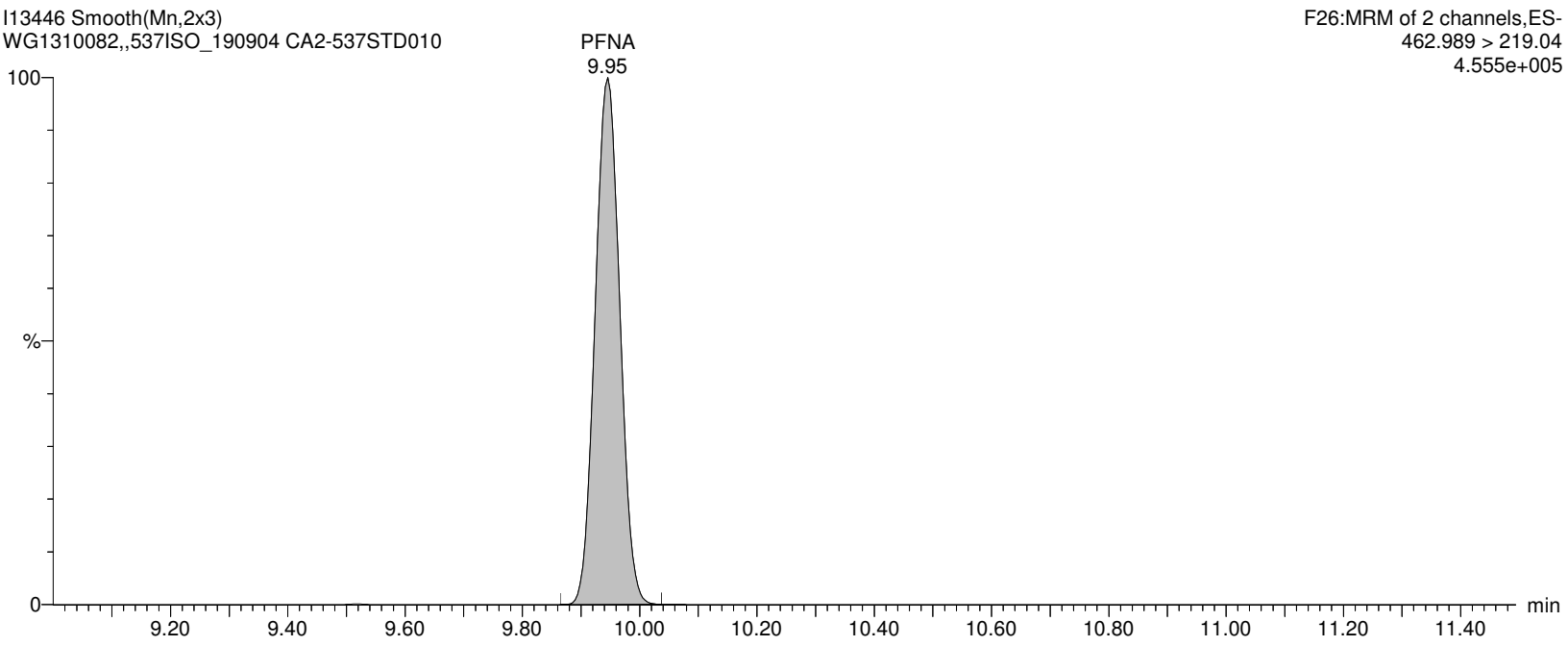

all concentration units in (ng/mL)

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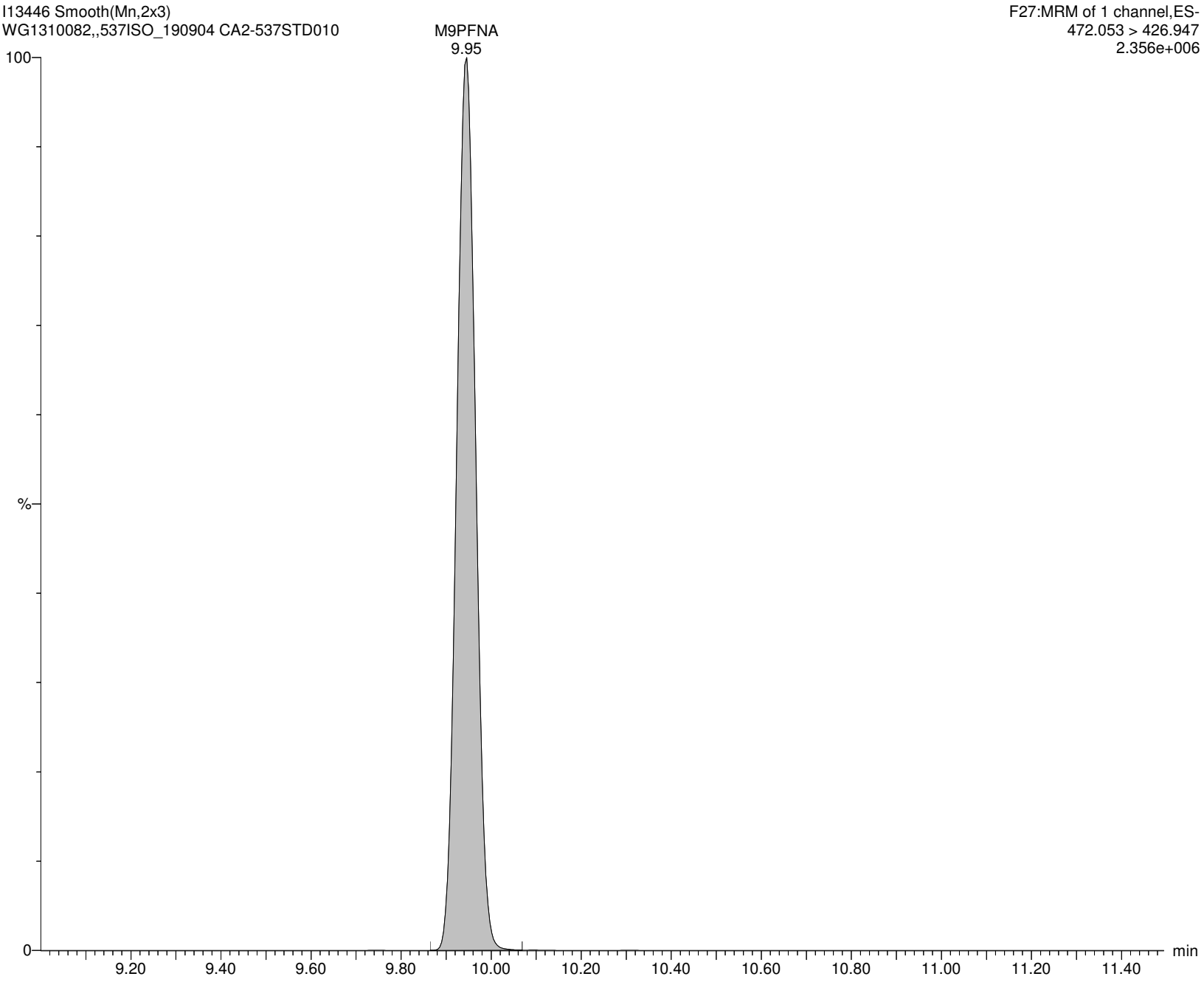

all concentration units in (ng/mL)

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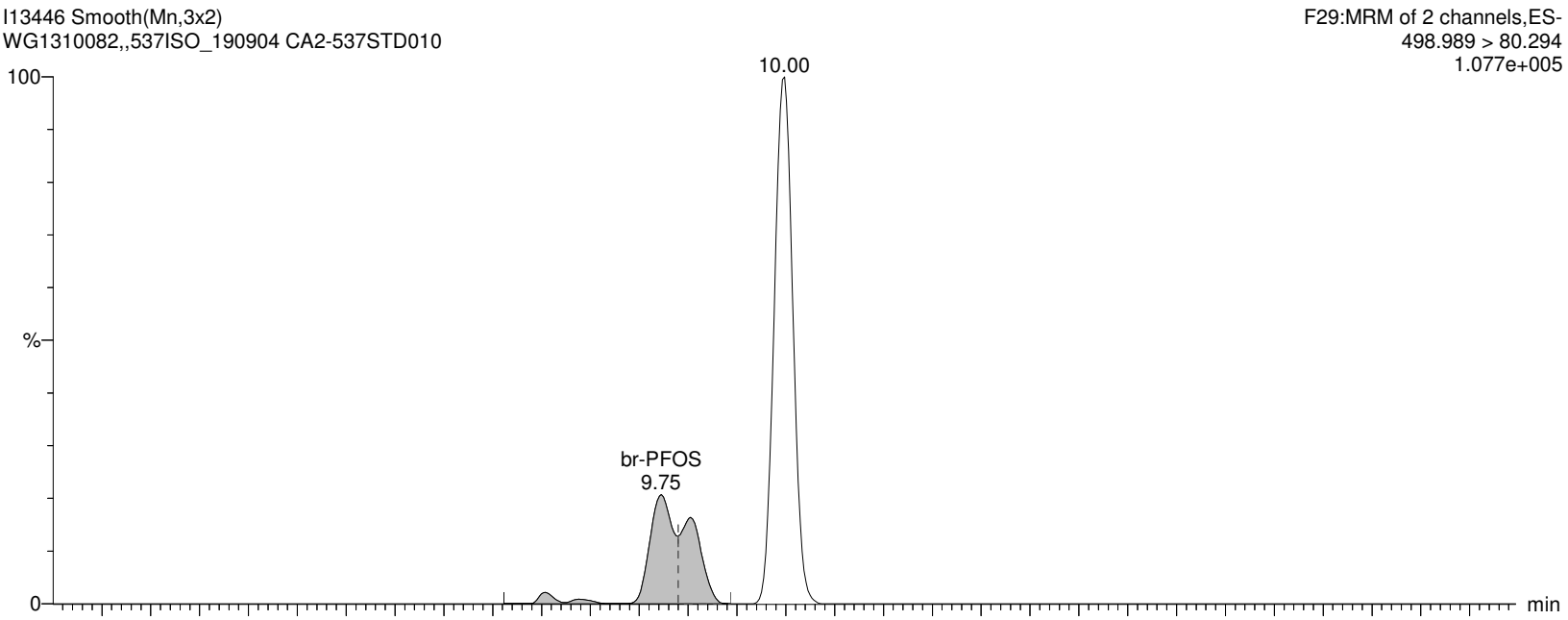

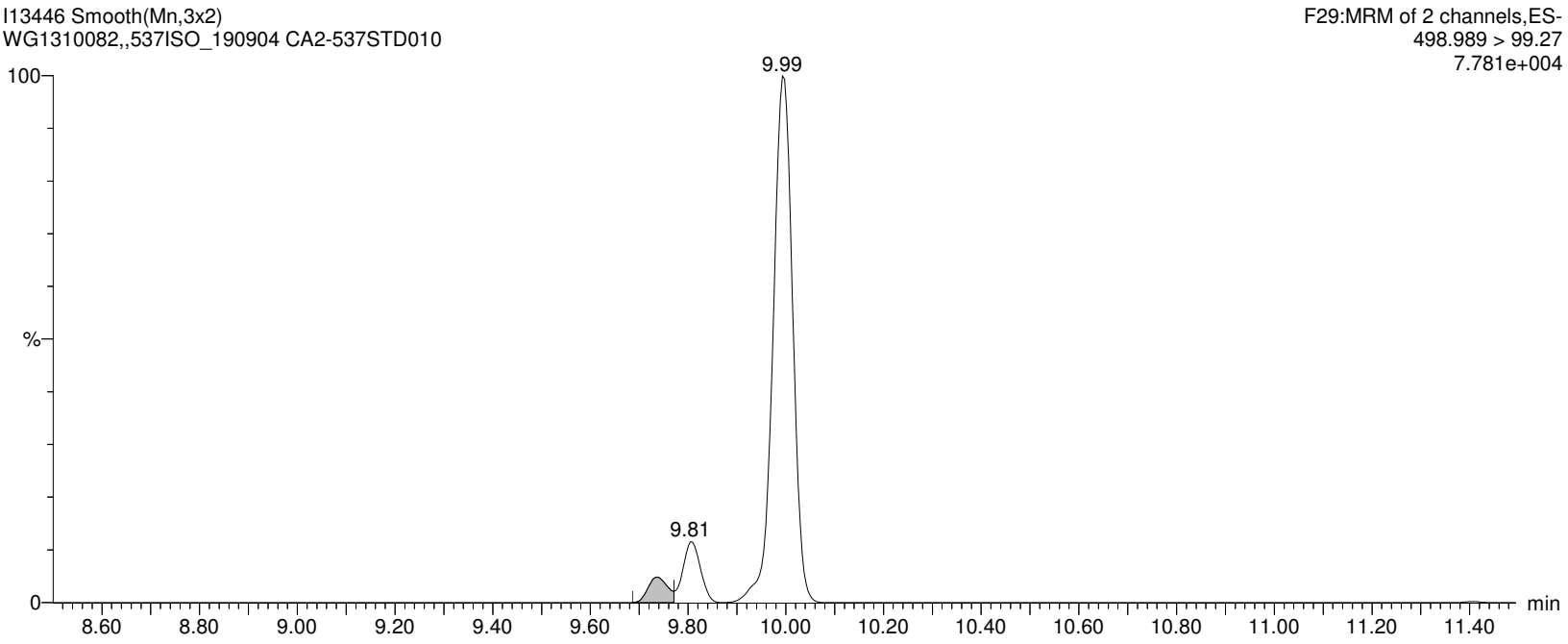

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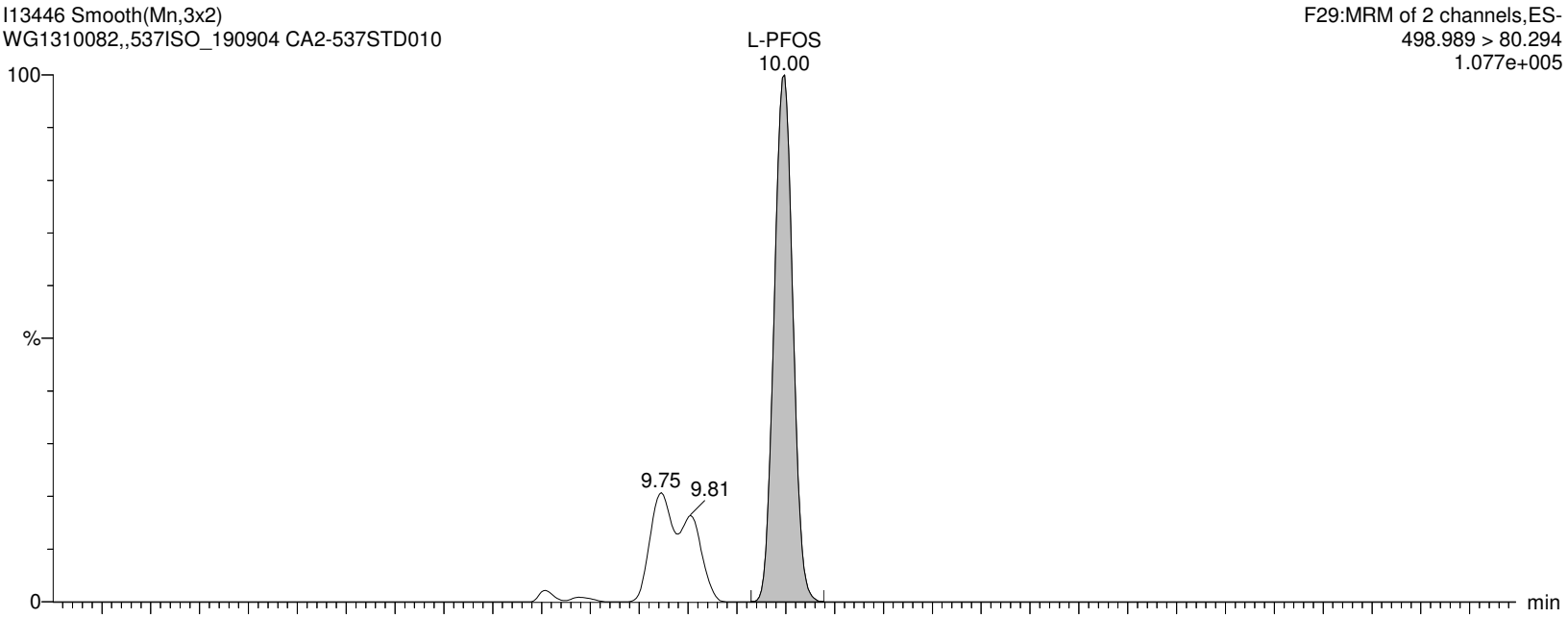
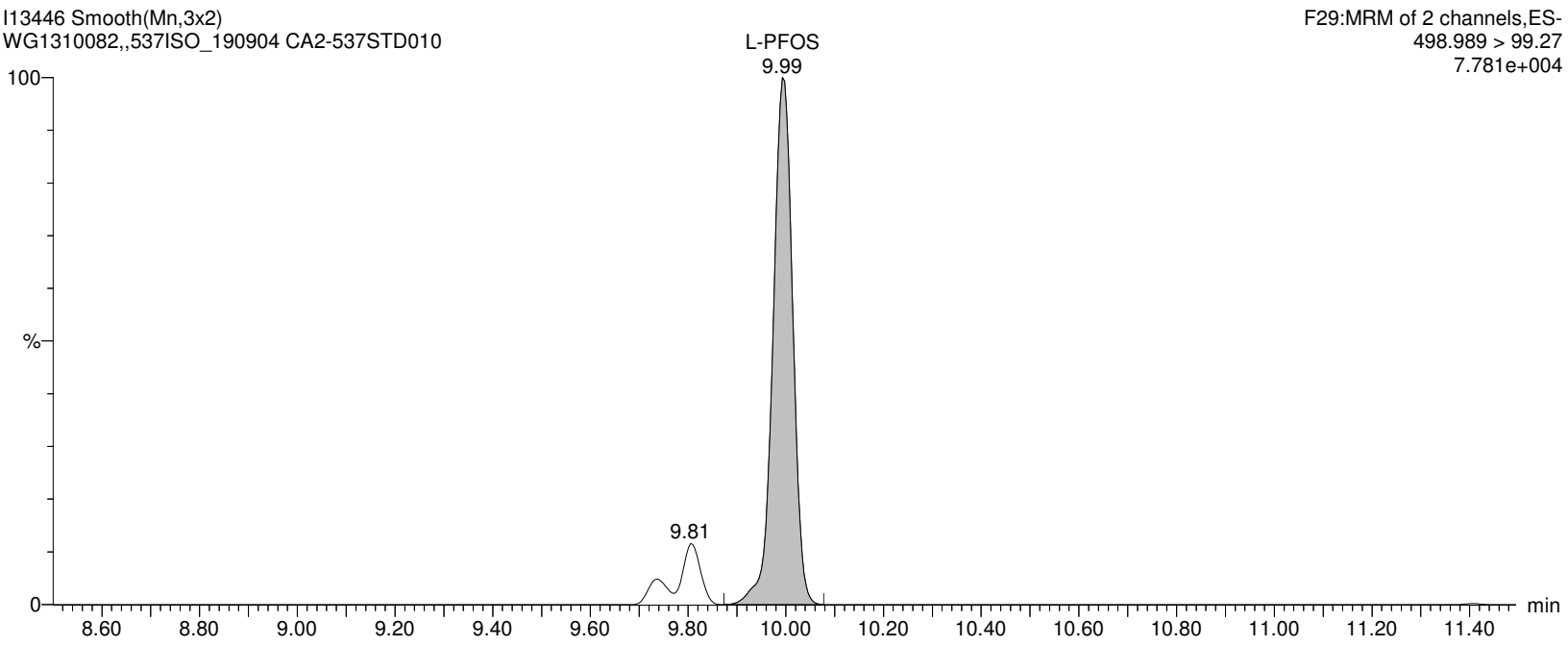
L-PFOS





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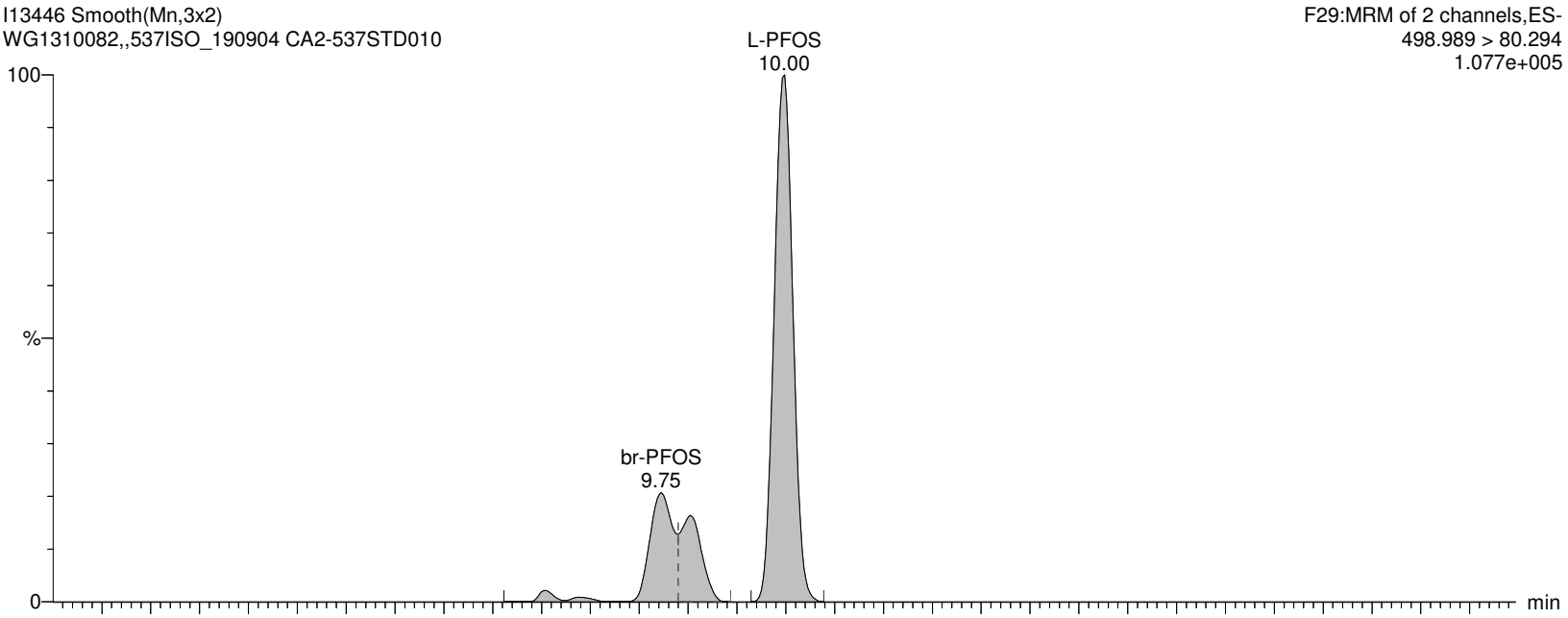

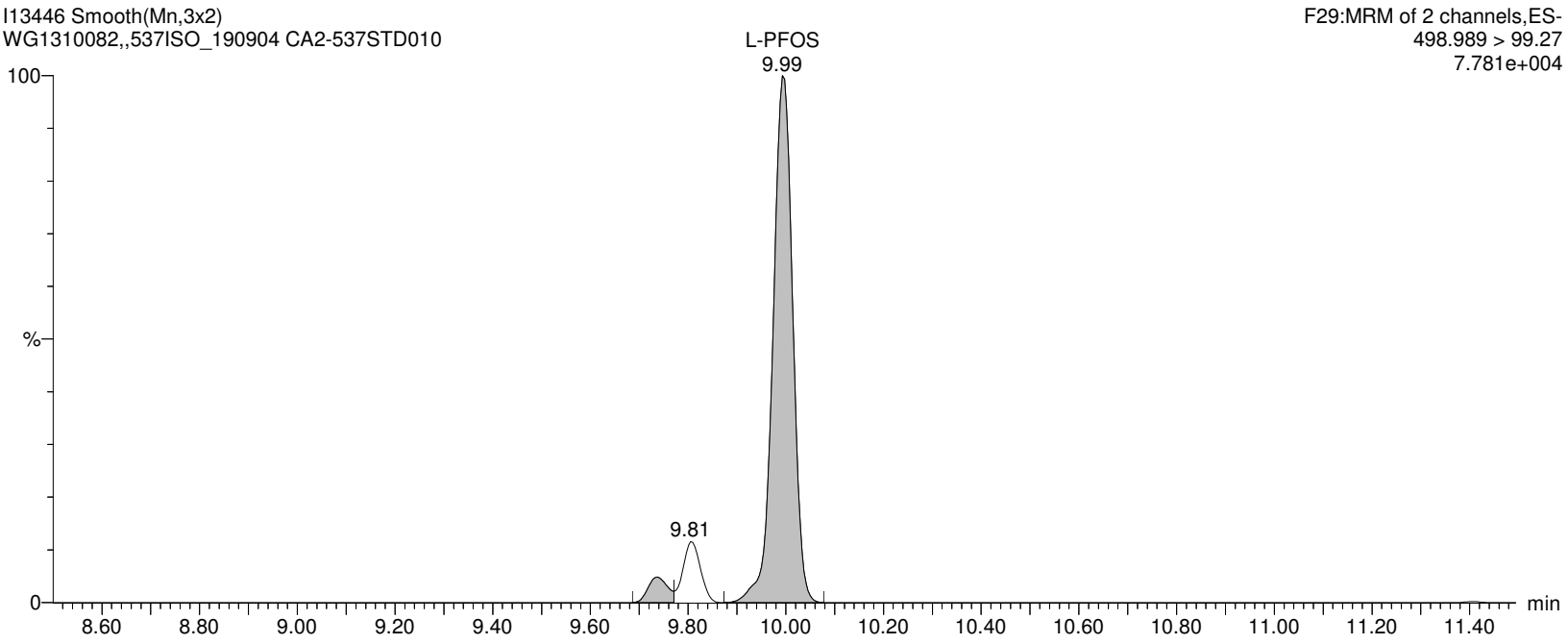

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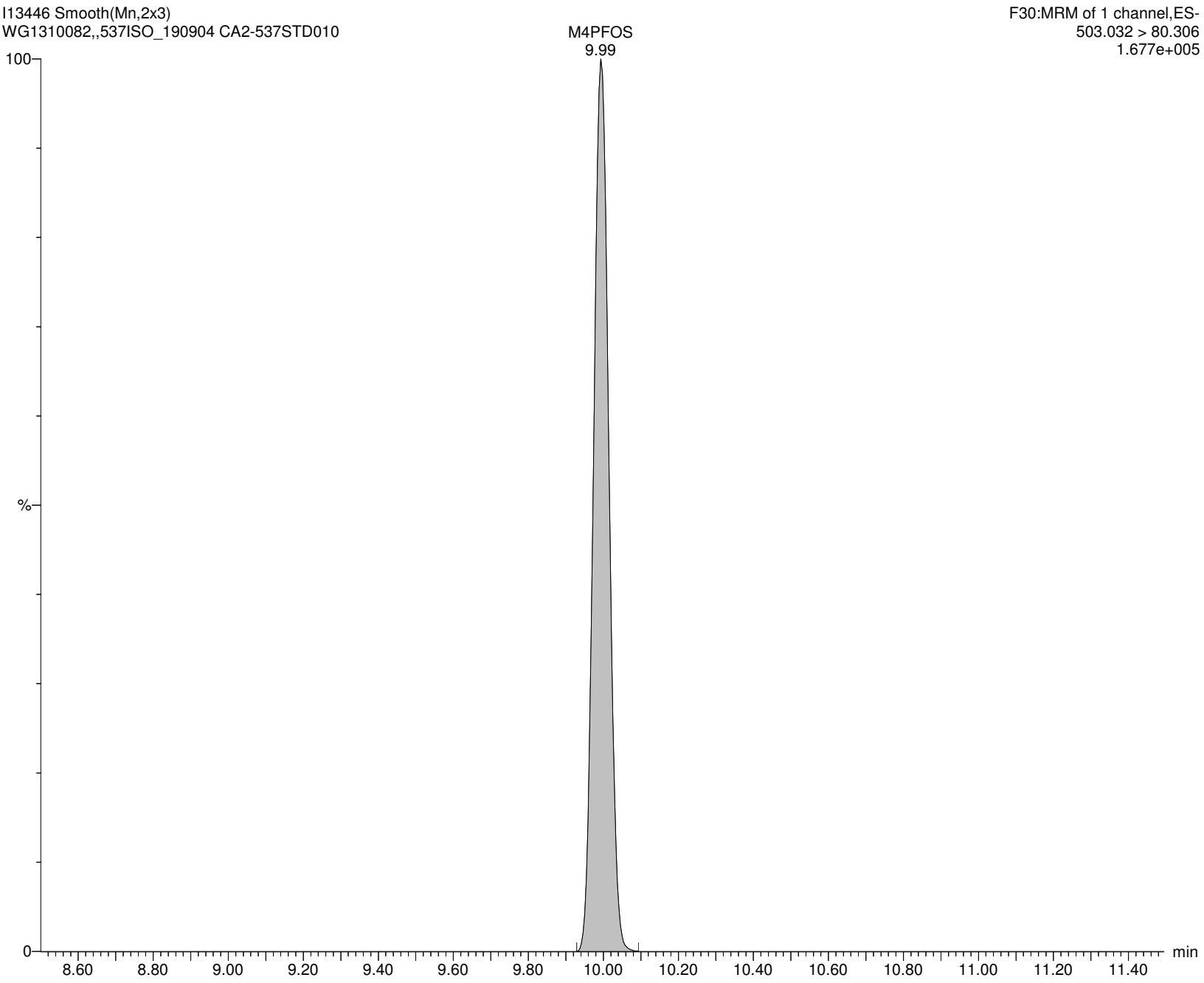
M4PFOS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

Name: I13446
ID: CA2-537STD010
Date: 18-Nov-2019
Time: 14:05:52
Description: WG1310082,,537ISO_190904
User: LCMS02:JW
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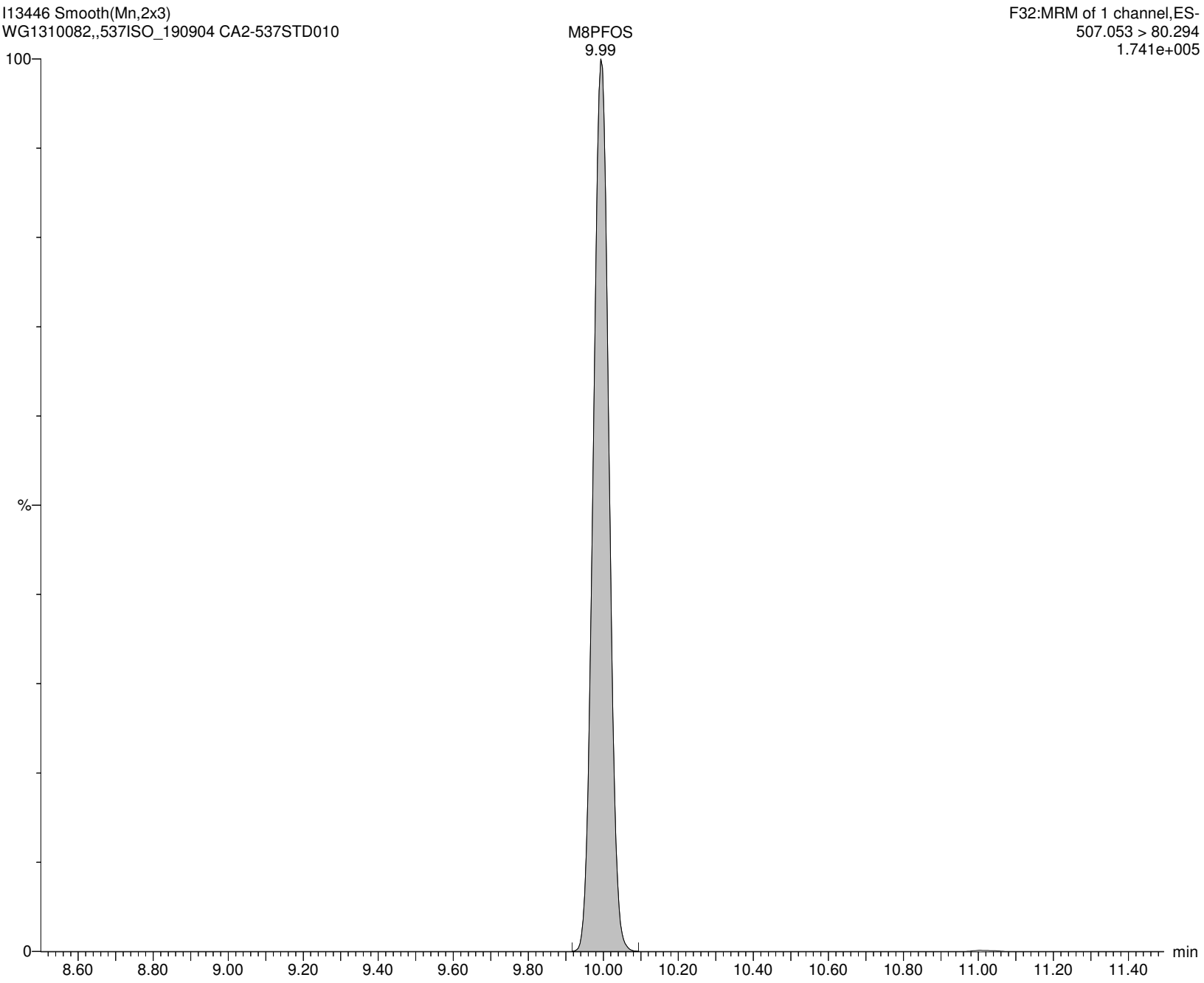

all concentration units in (ng/mL)

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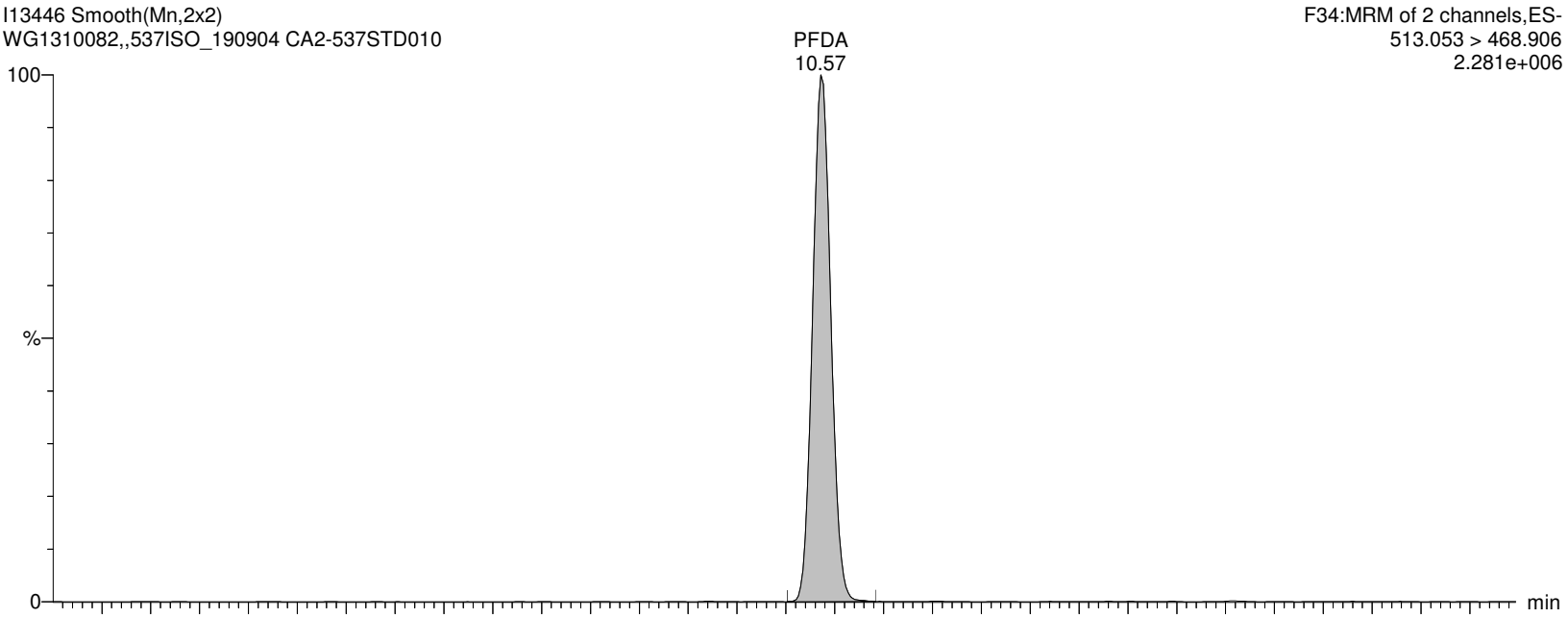

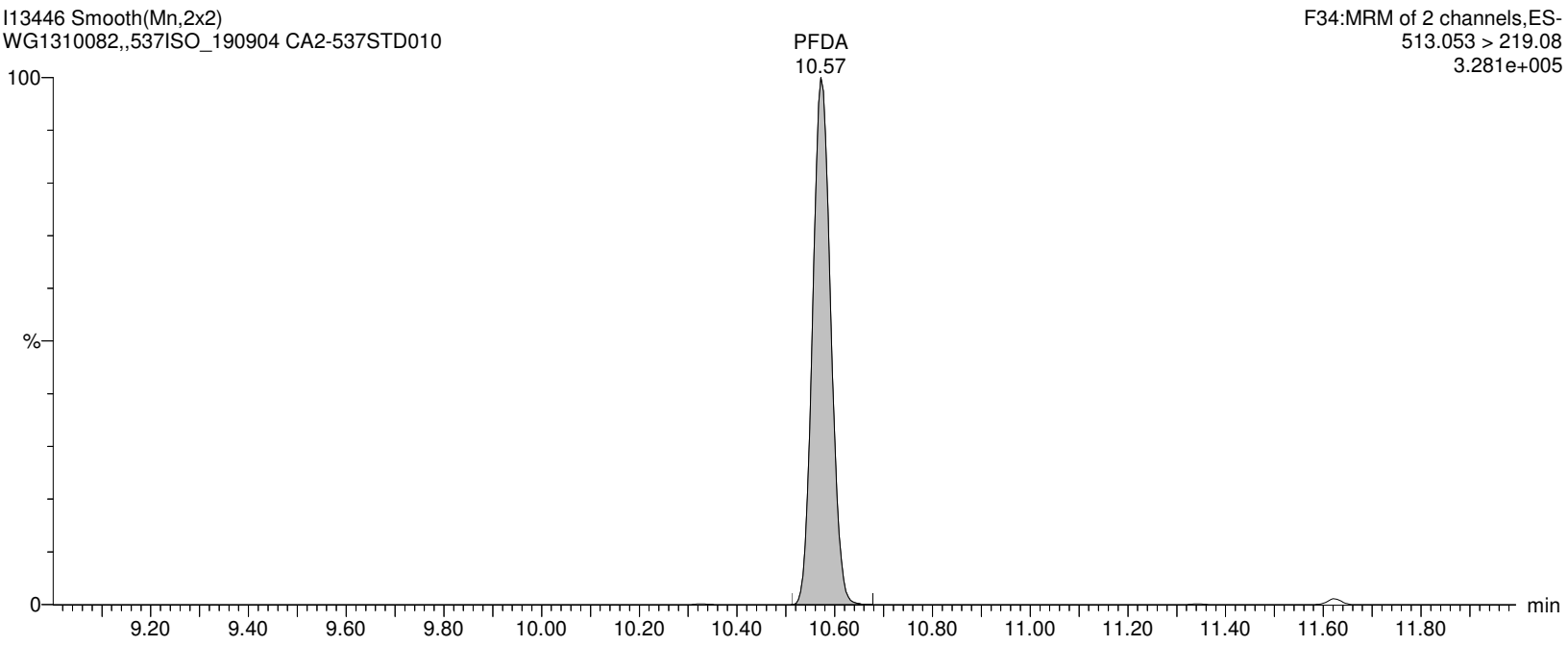

all concentration units in (ng/mL)

Alpha Analytical Inc.
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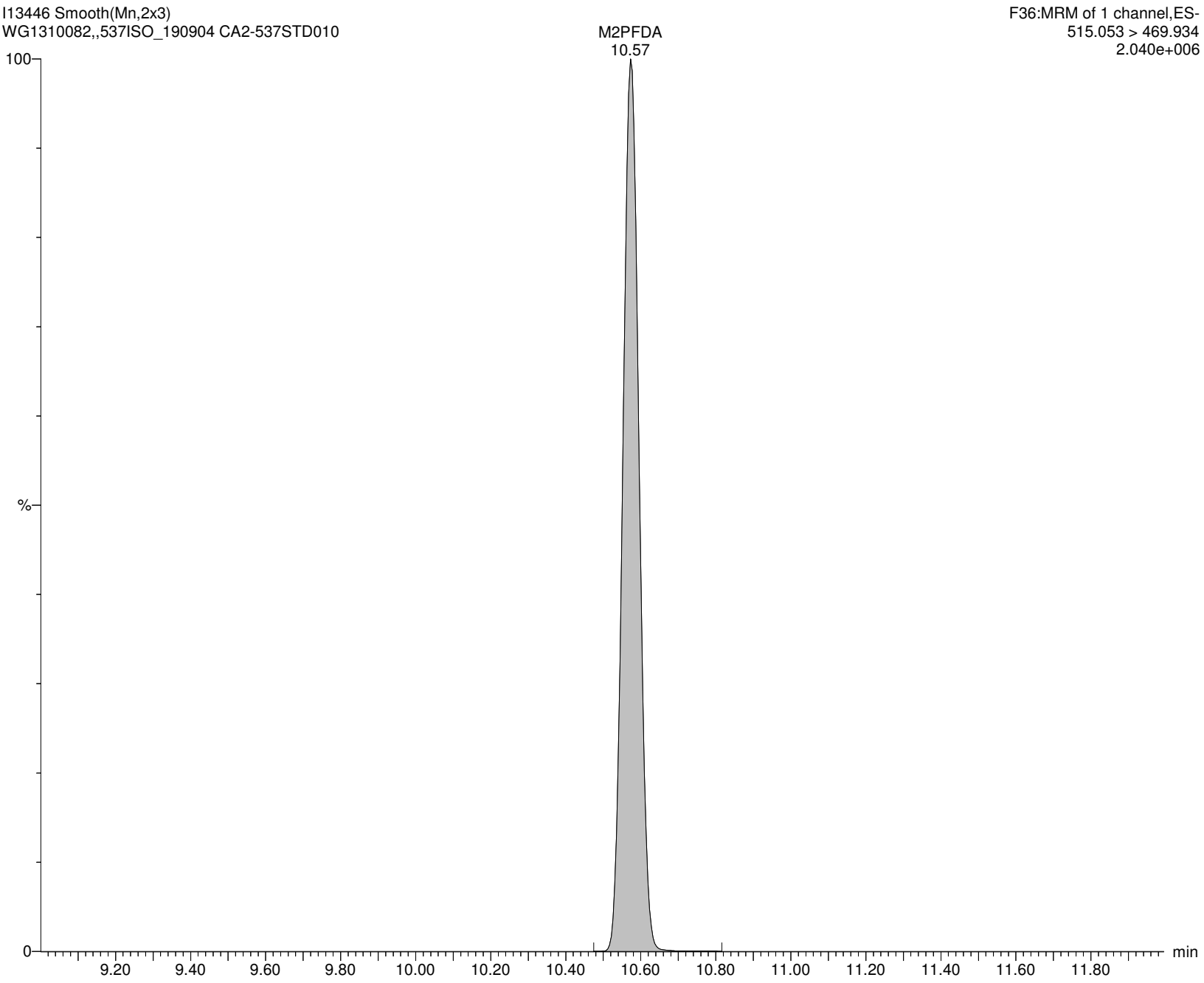

all concentration units in (ng/mL)

Alpha Analytical Inc.
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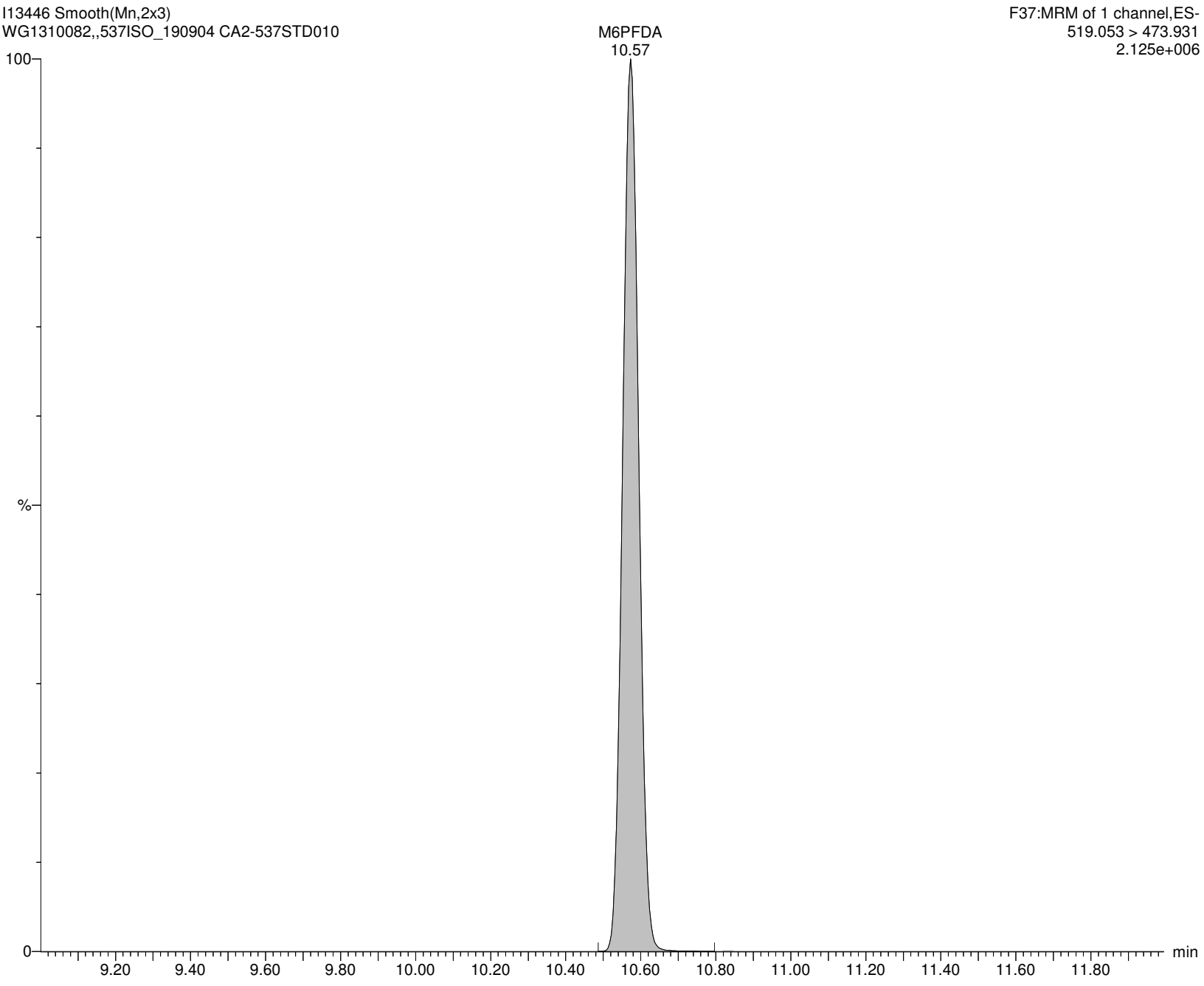

all concentration units in (ng/mL)

Alpha Analytical Inc.
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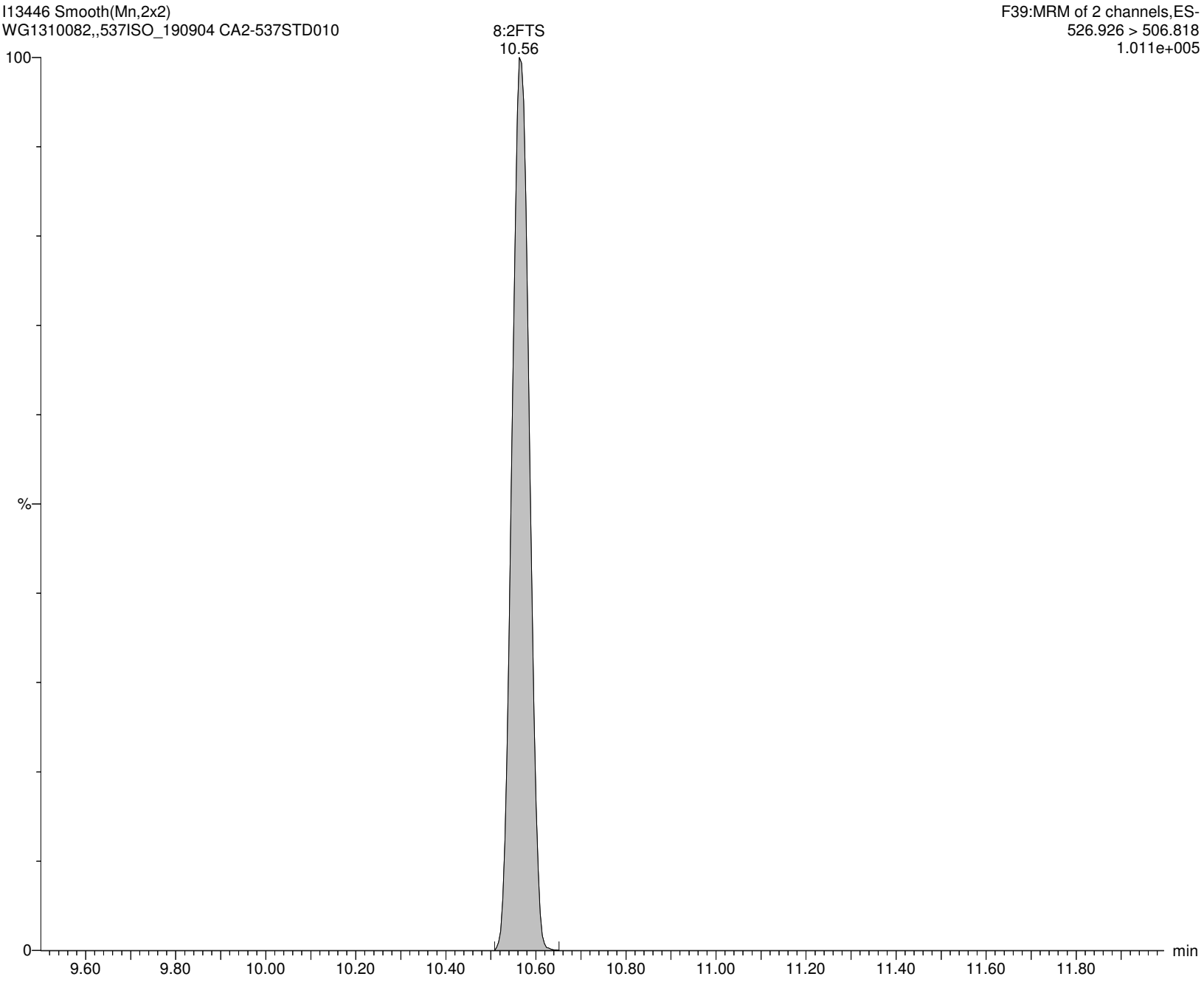
8:2FTS



all concentration units in (ng/mL)

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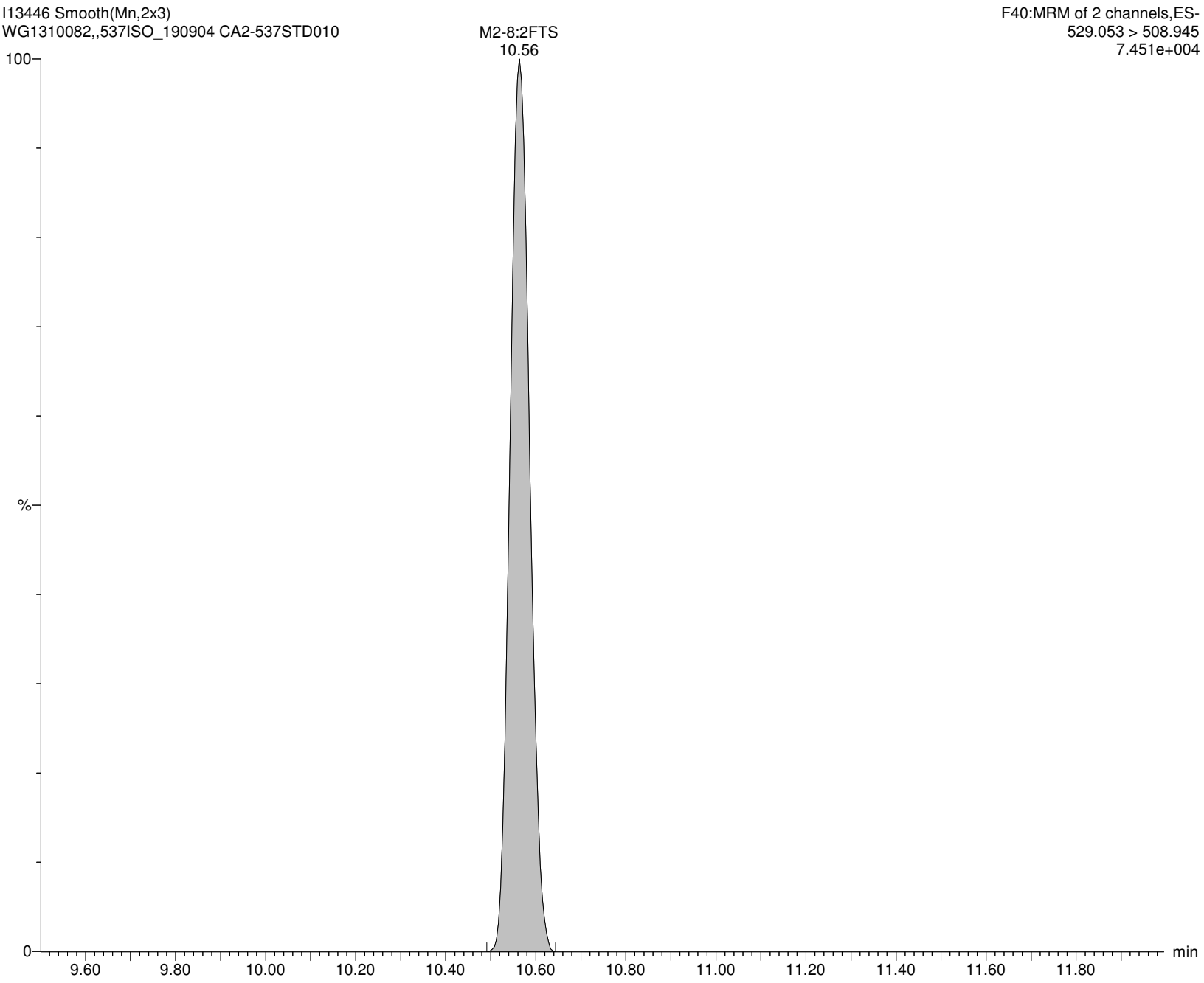

all concentration units in (ng/mL)

Alpha Analytical Inc.
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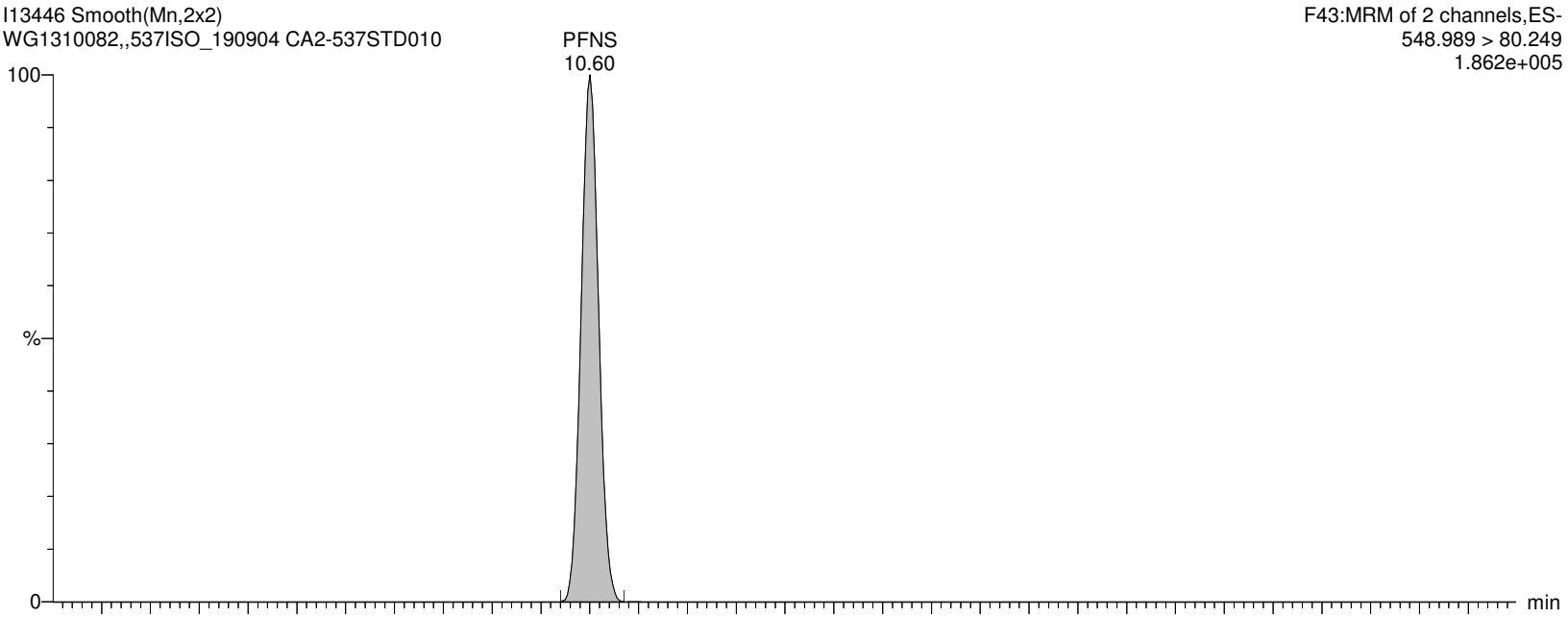
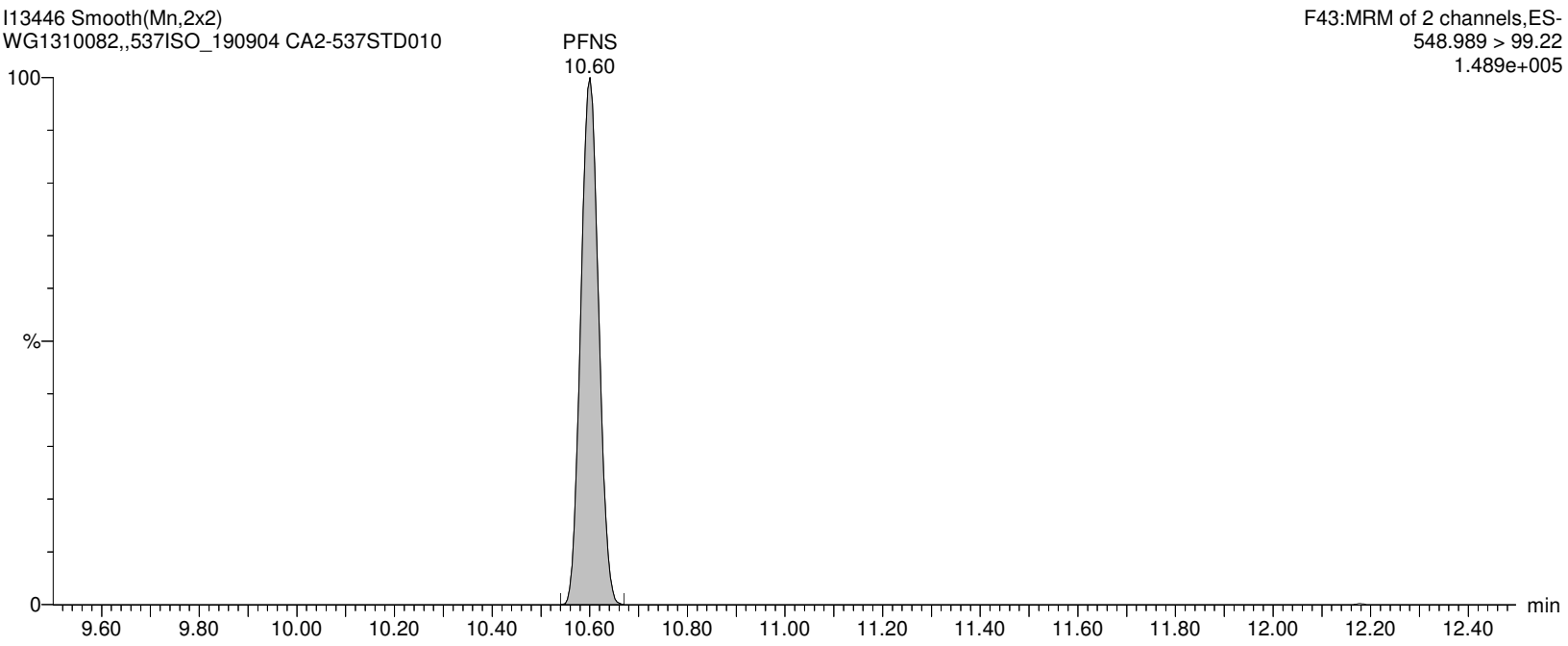
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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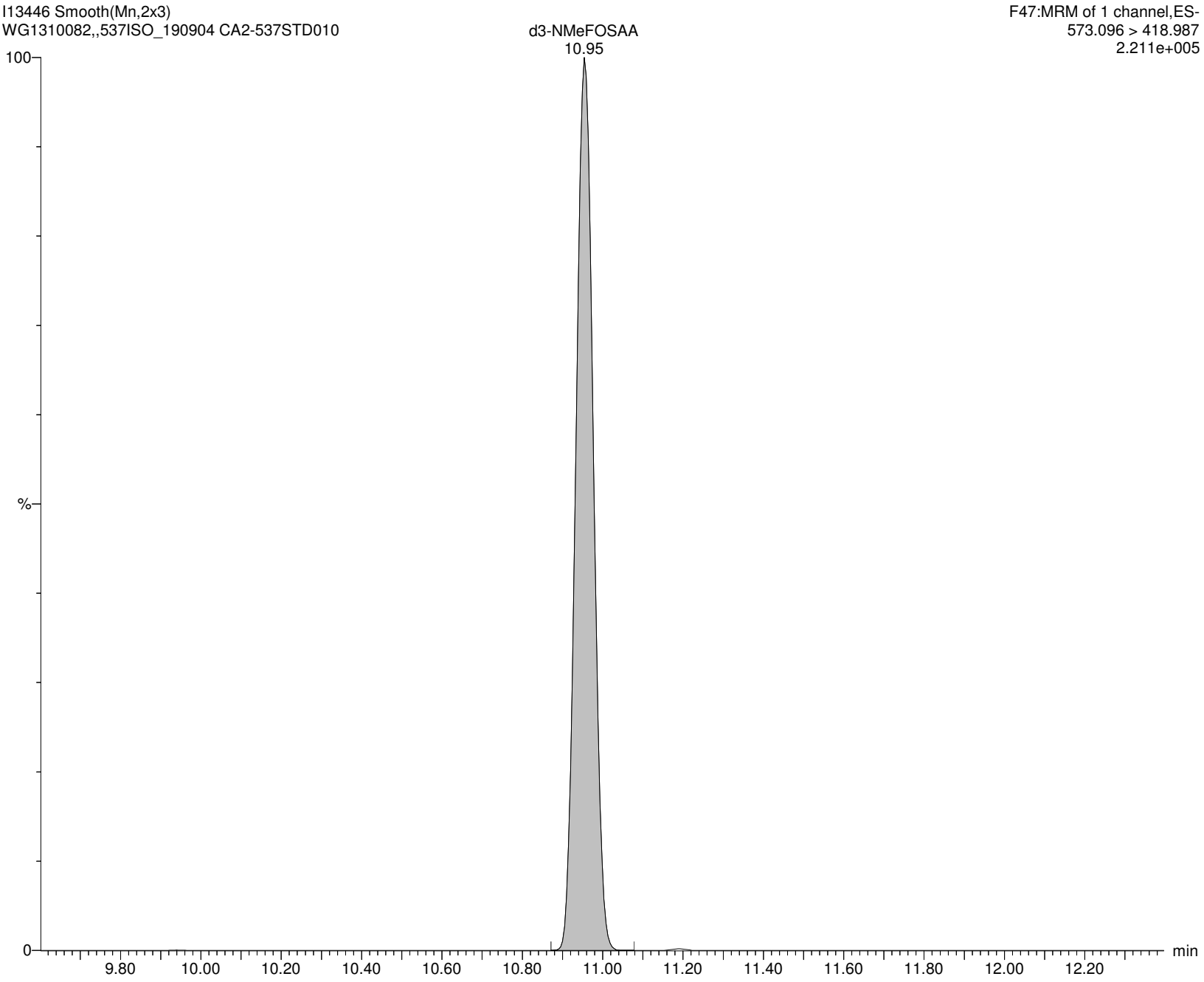

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
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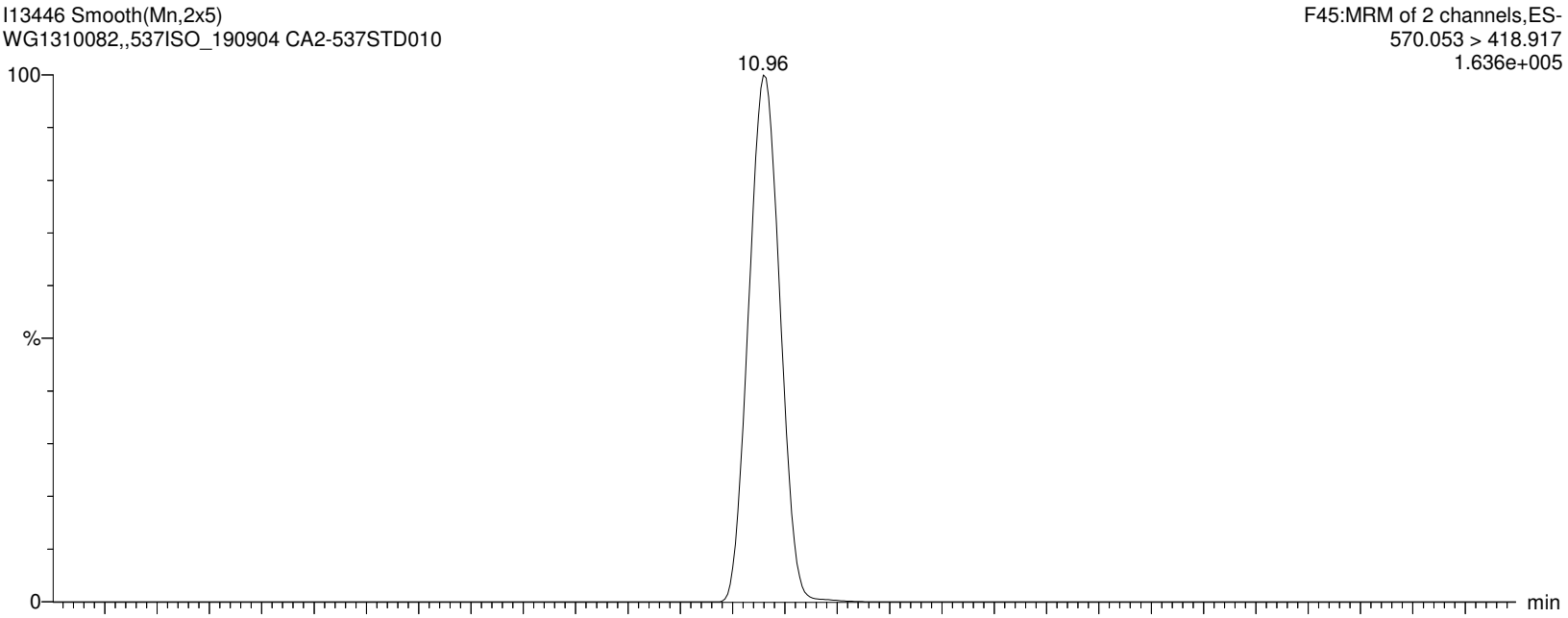

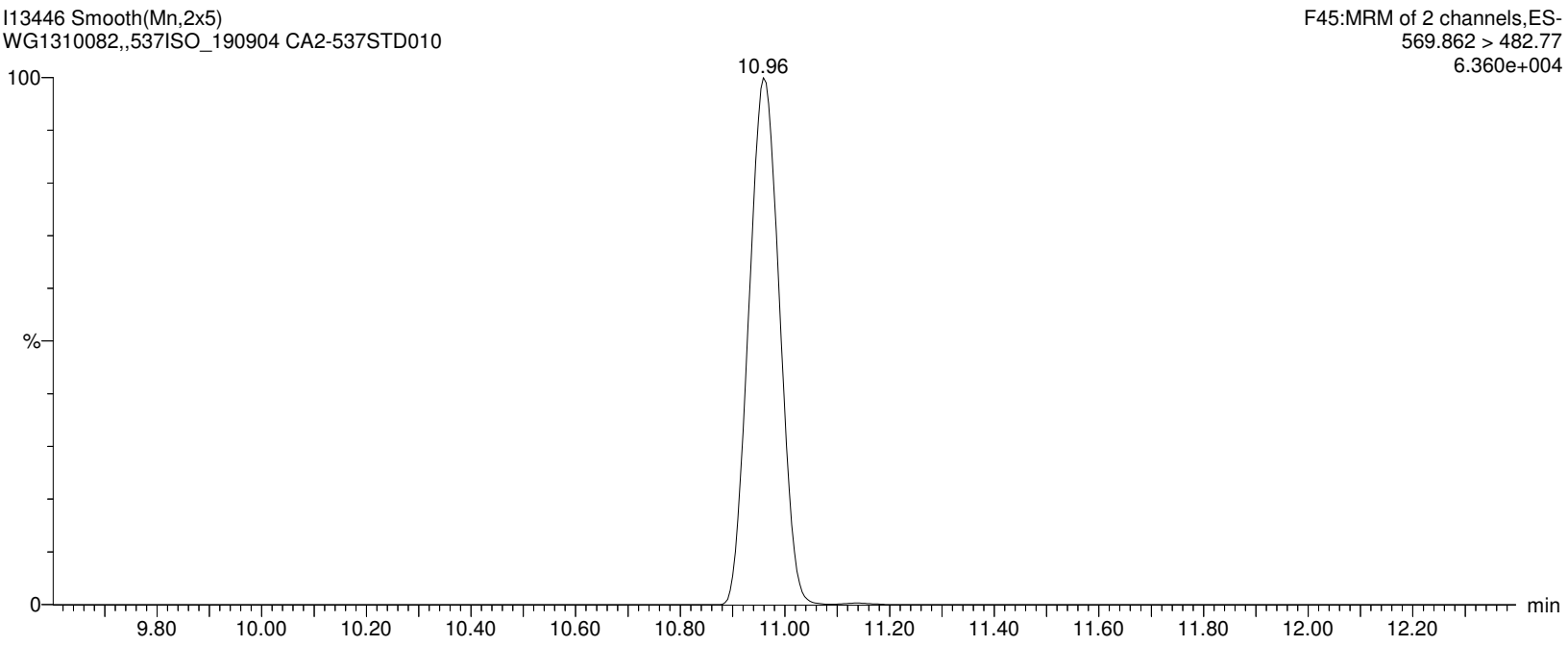

all concentration units in (ng/mL)

Alpha Analytical Inc.
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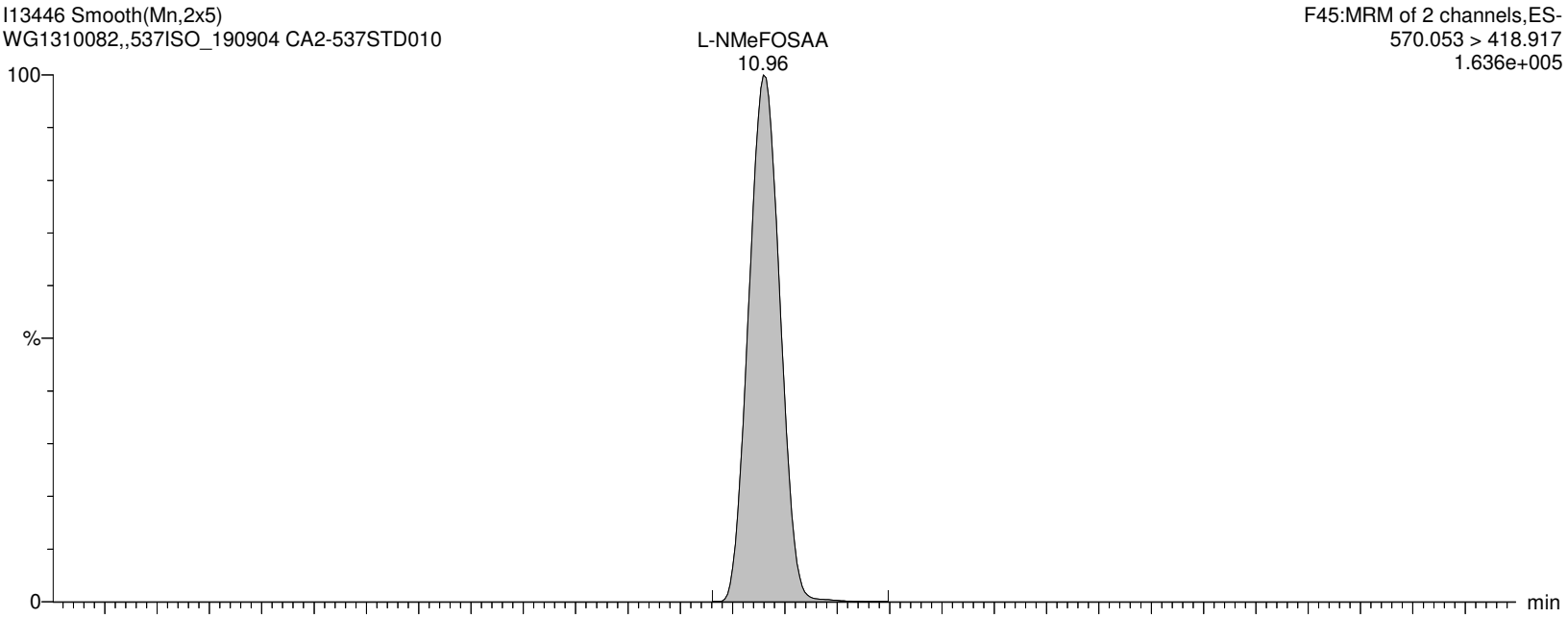

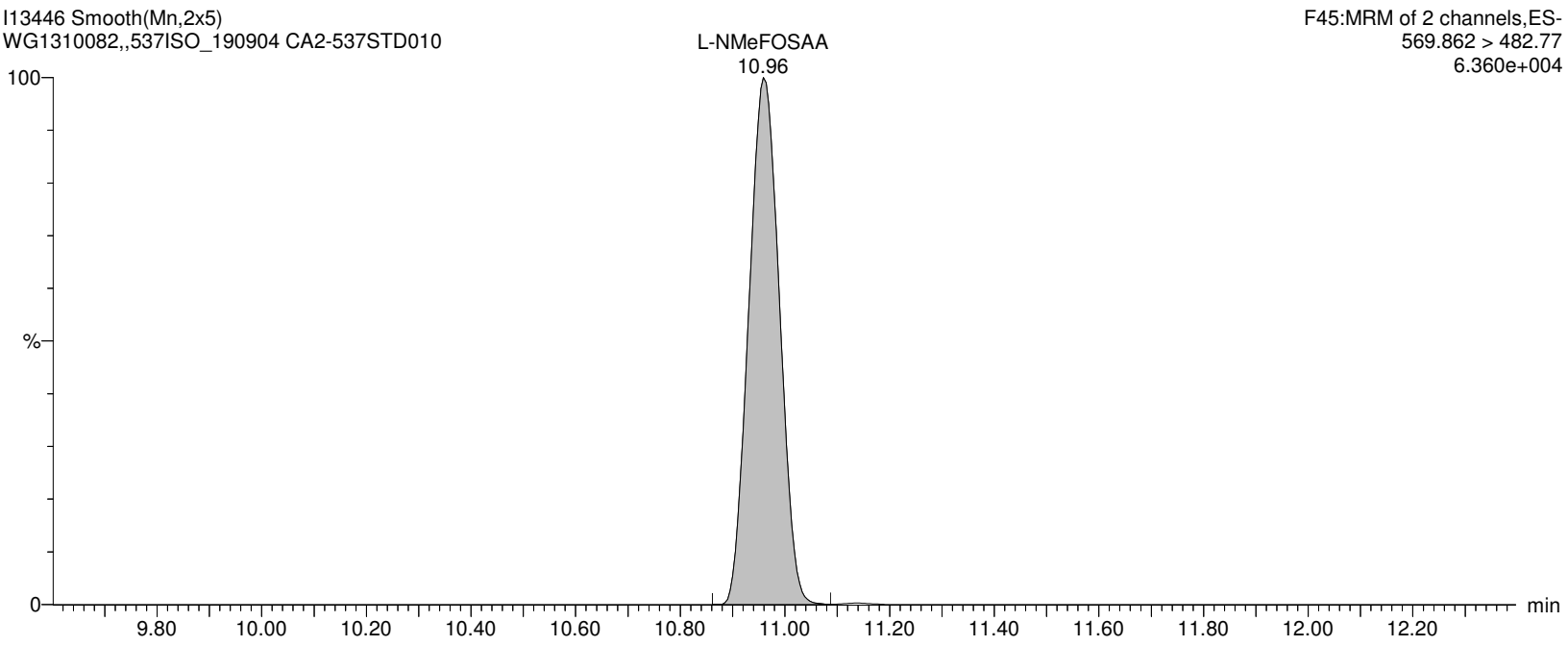

all concentration units in (ng/mL)

Alpha Analytical Inc.
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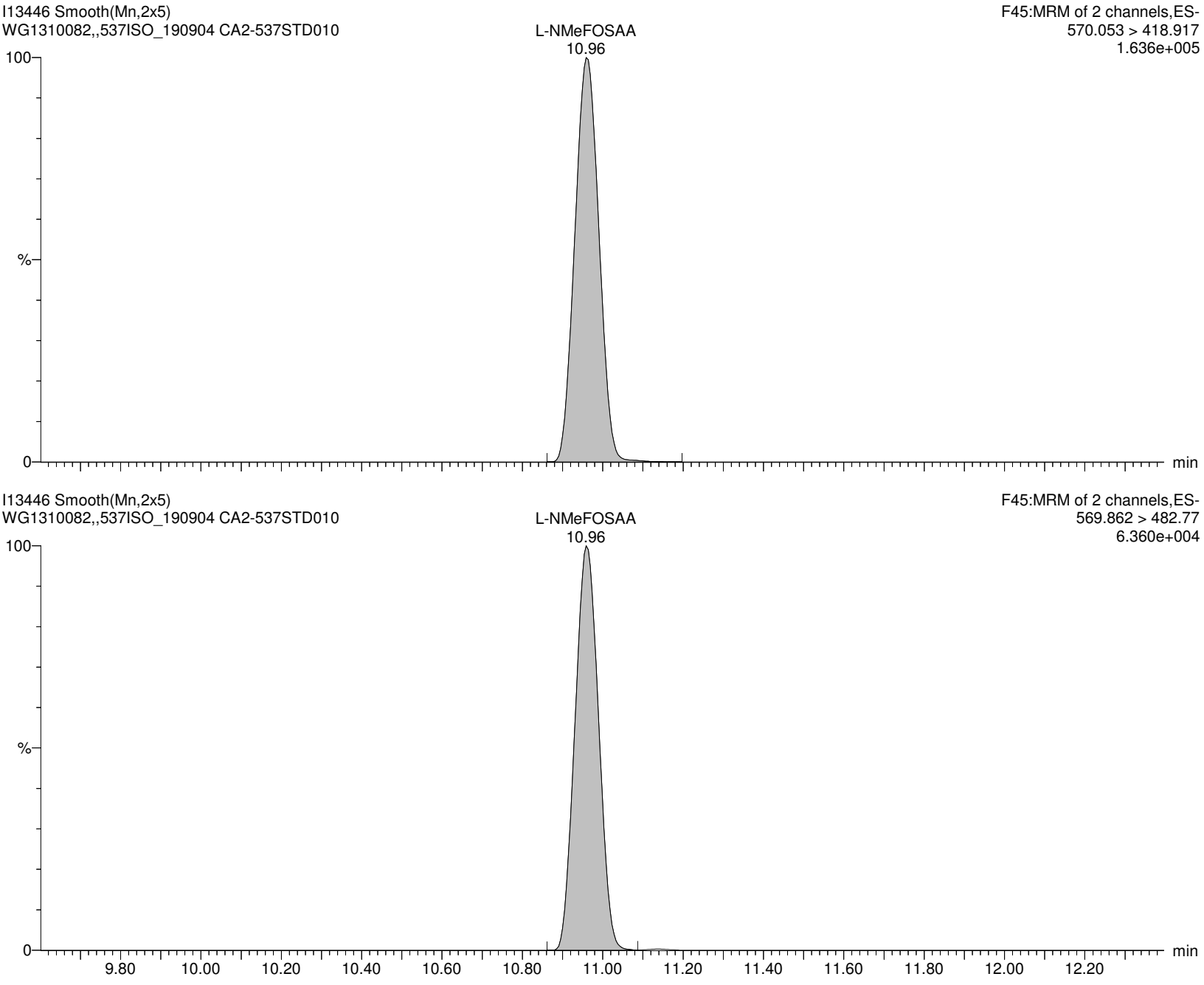

all concentration units in (ng/mL)

Alpha Analytical Inc.
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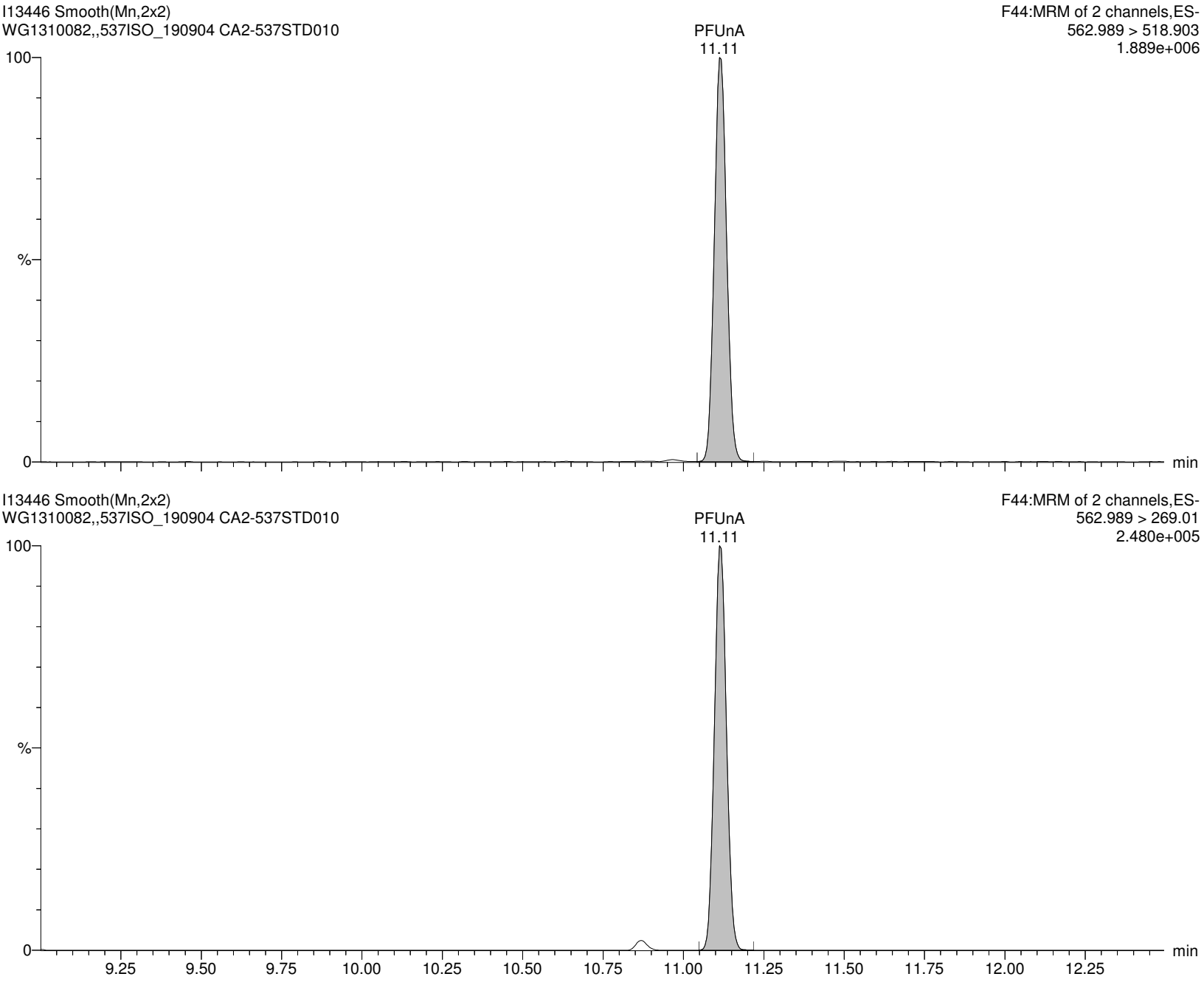

all concentration units in (ng/mL)

Alpha Analytical Inc.
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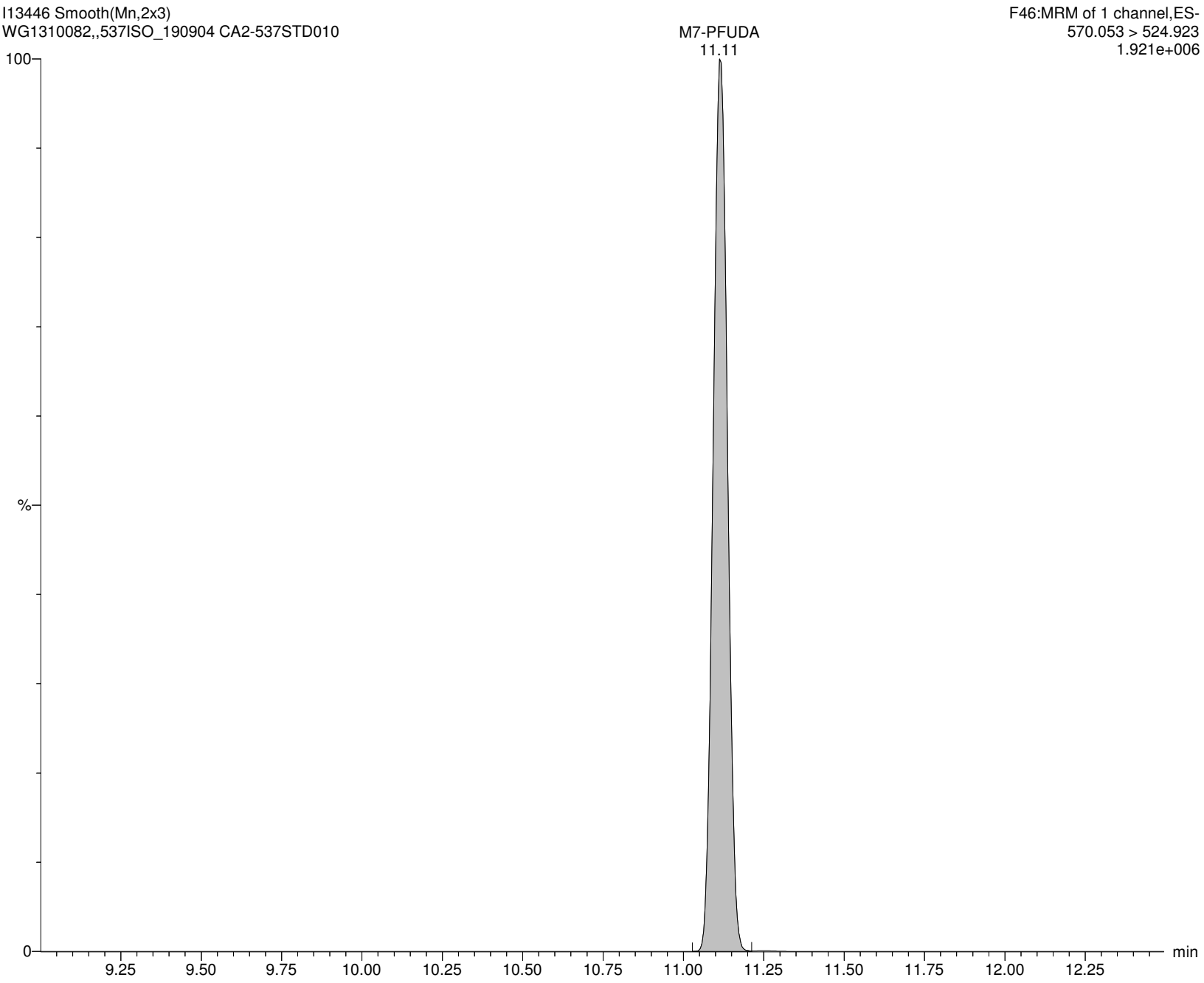

all concentration units in (ng/mL)

Alpha Analytical Inc.
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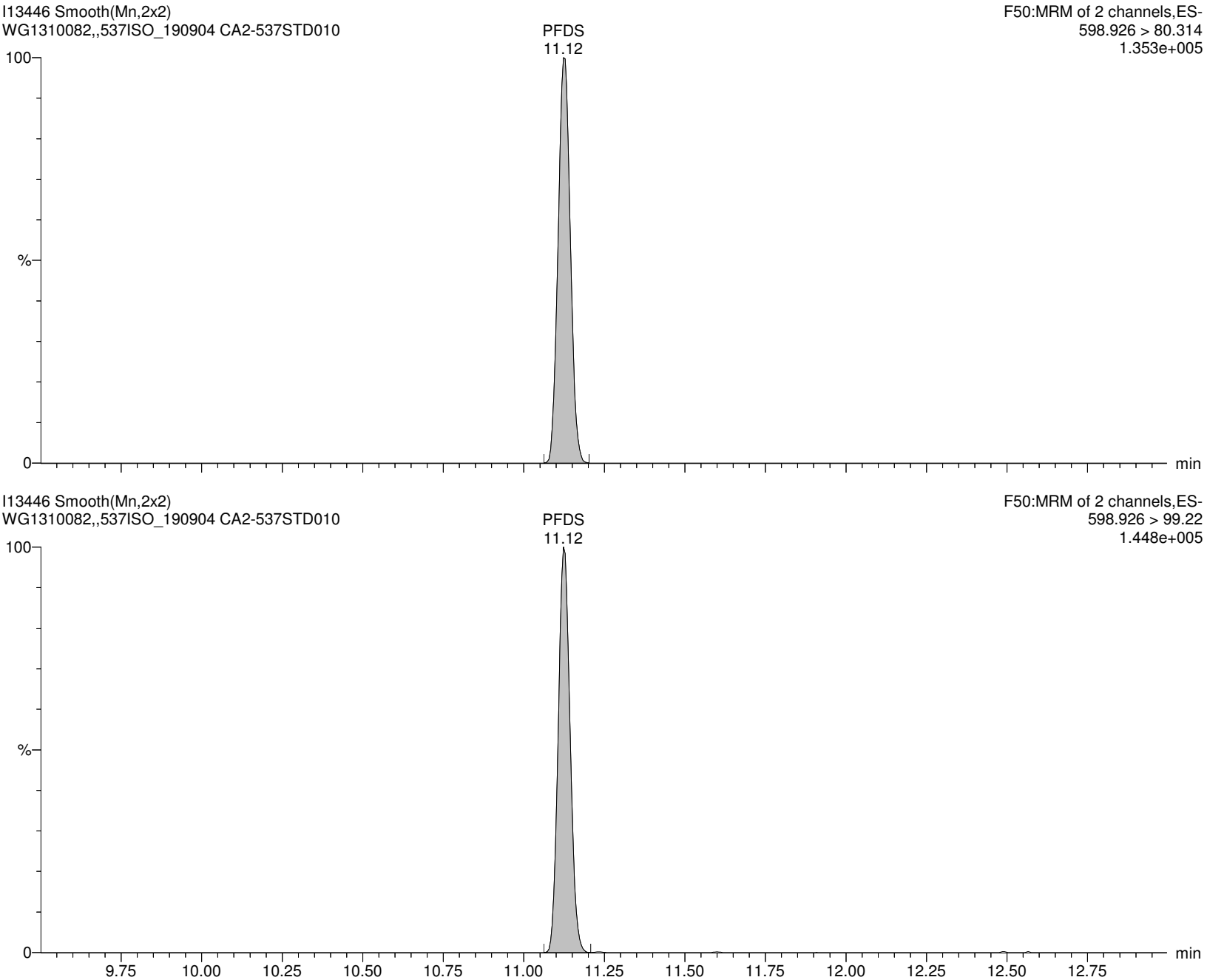

all concentration units in (ng/mL)

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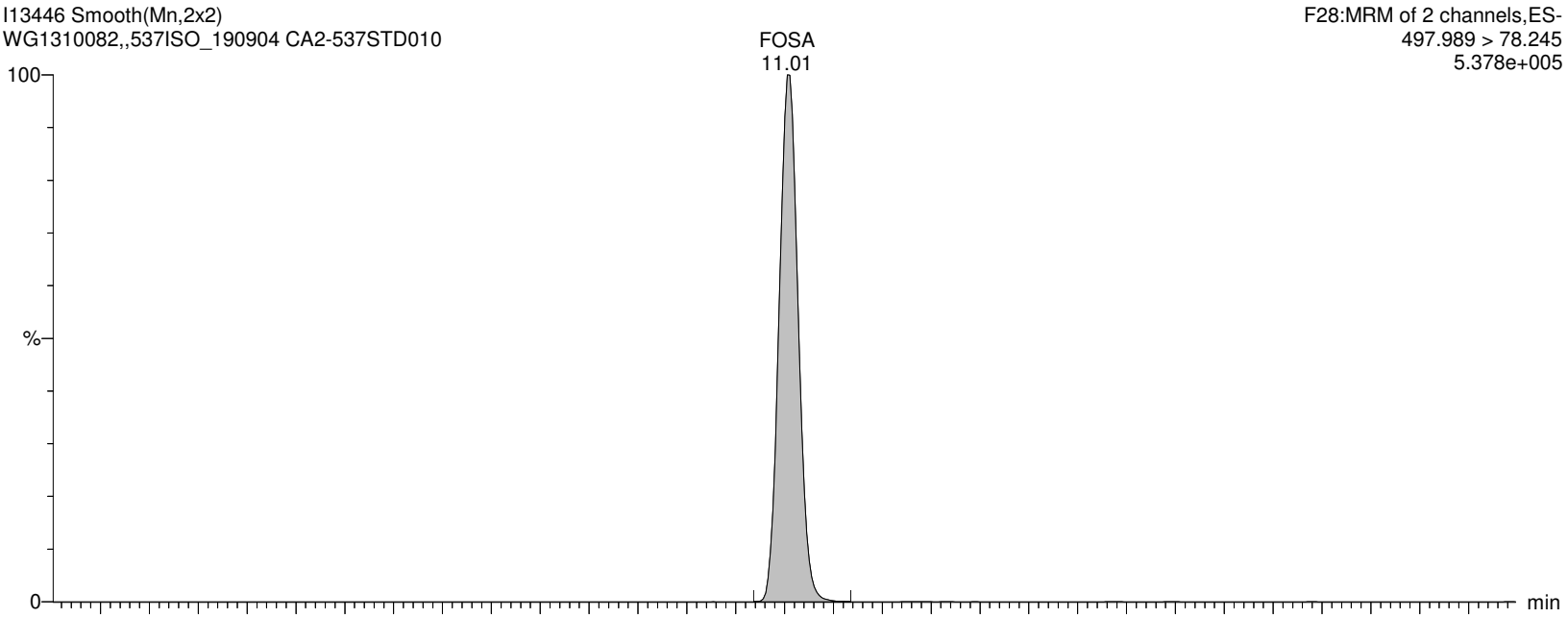

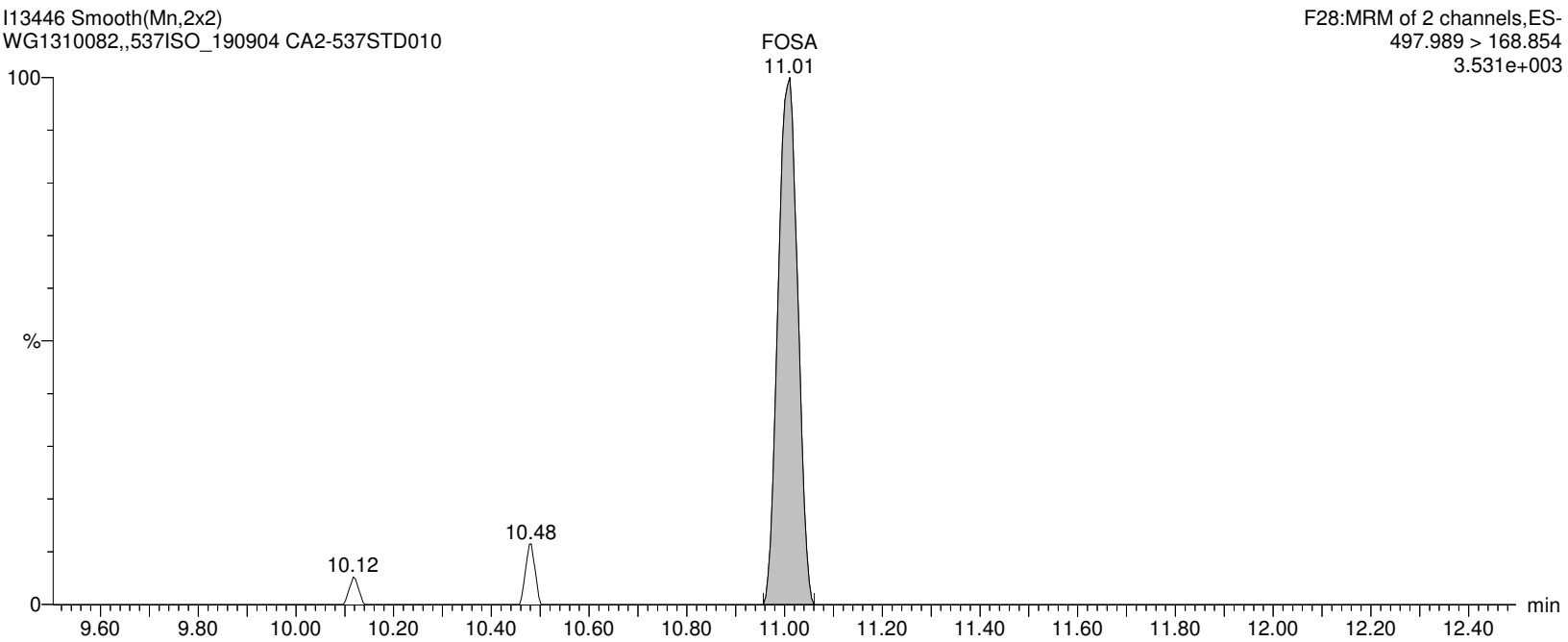

all concentration units in (ng/mL)

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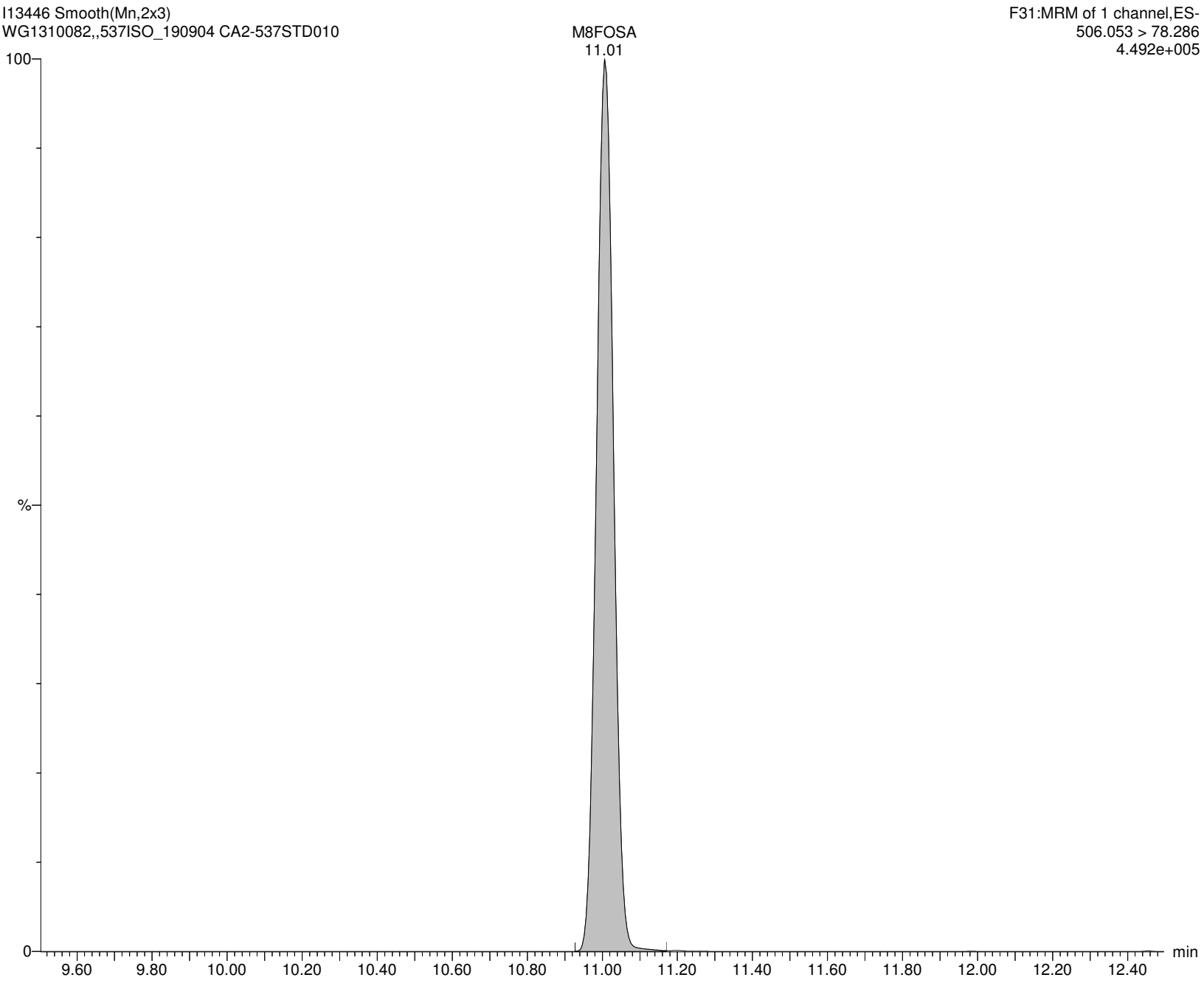

all concentration units in (ng/mL)

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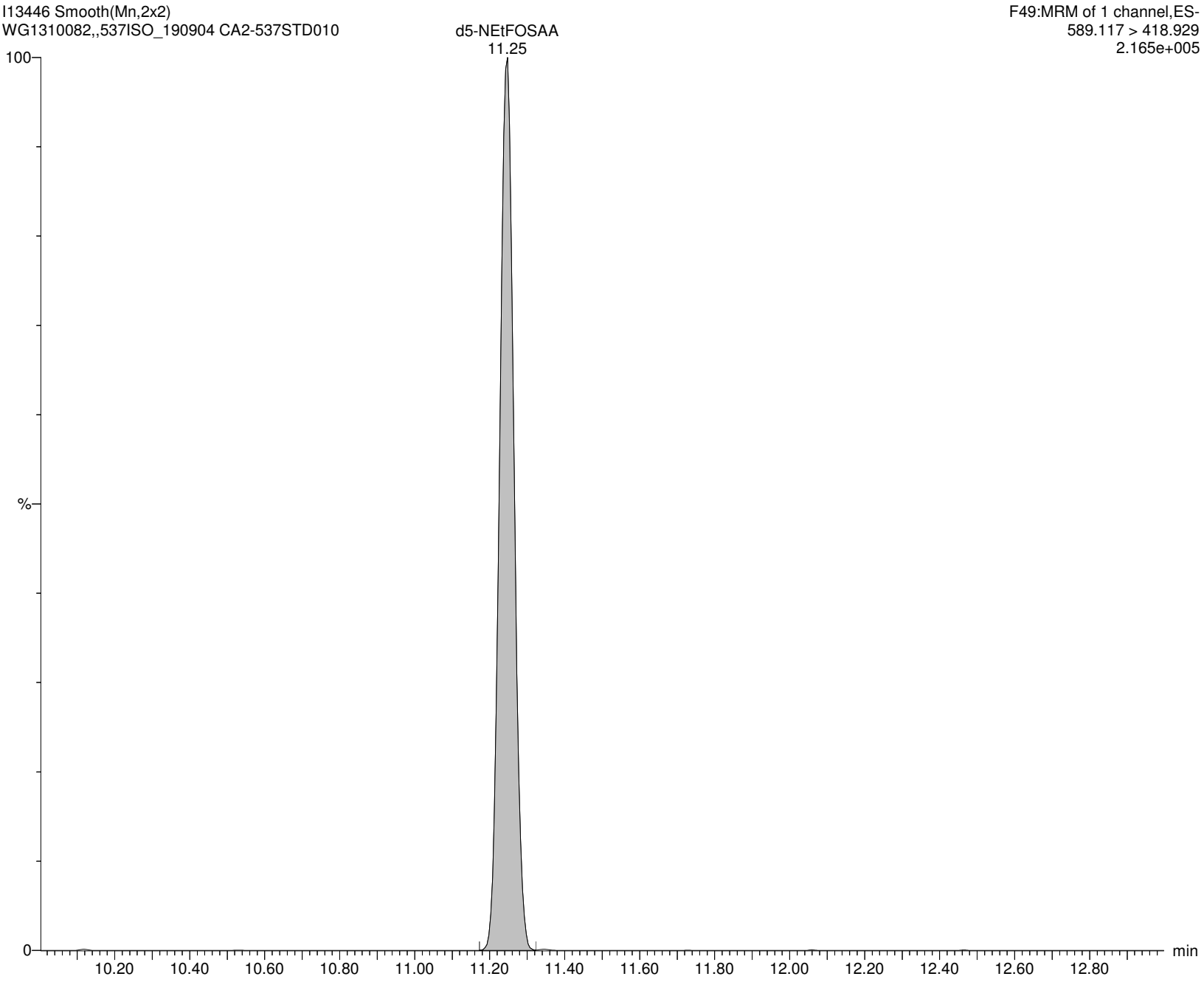

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

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ID: CA2-537STD010
Date: 18-Nov-2019
Time: 14:05:52
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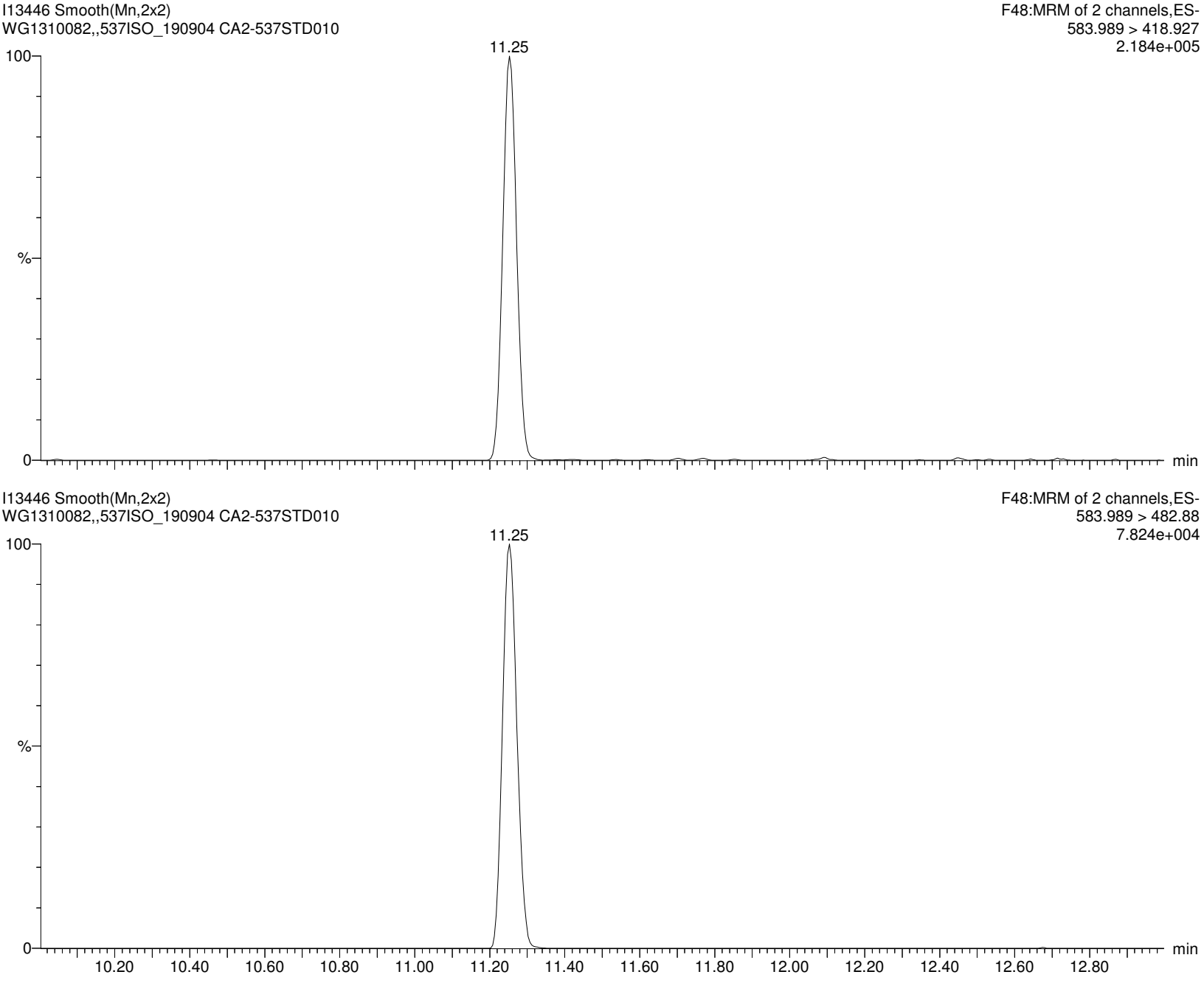

all concentration units in (ng/mL)

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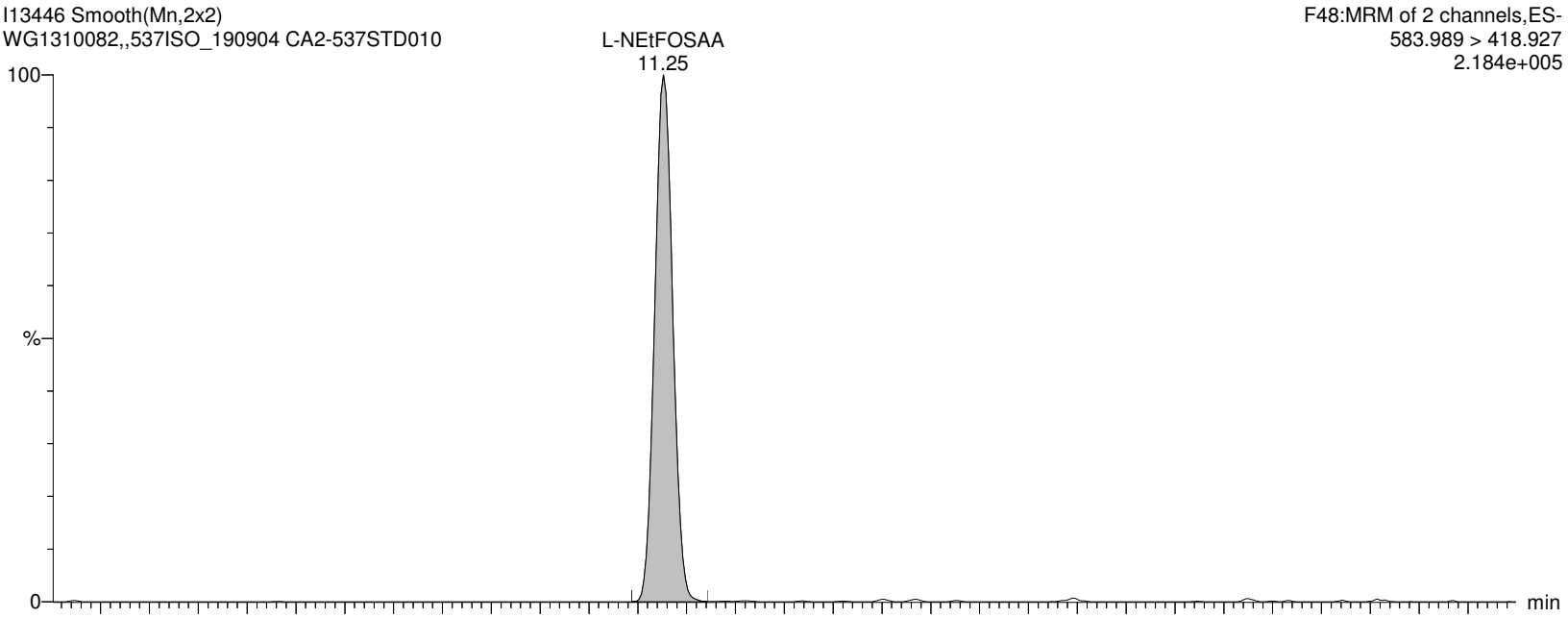

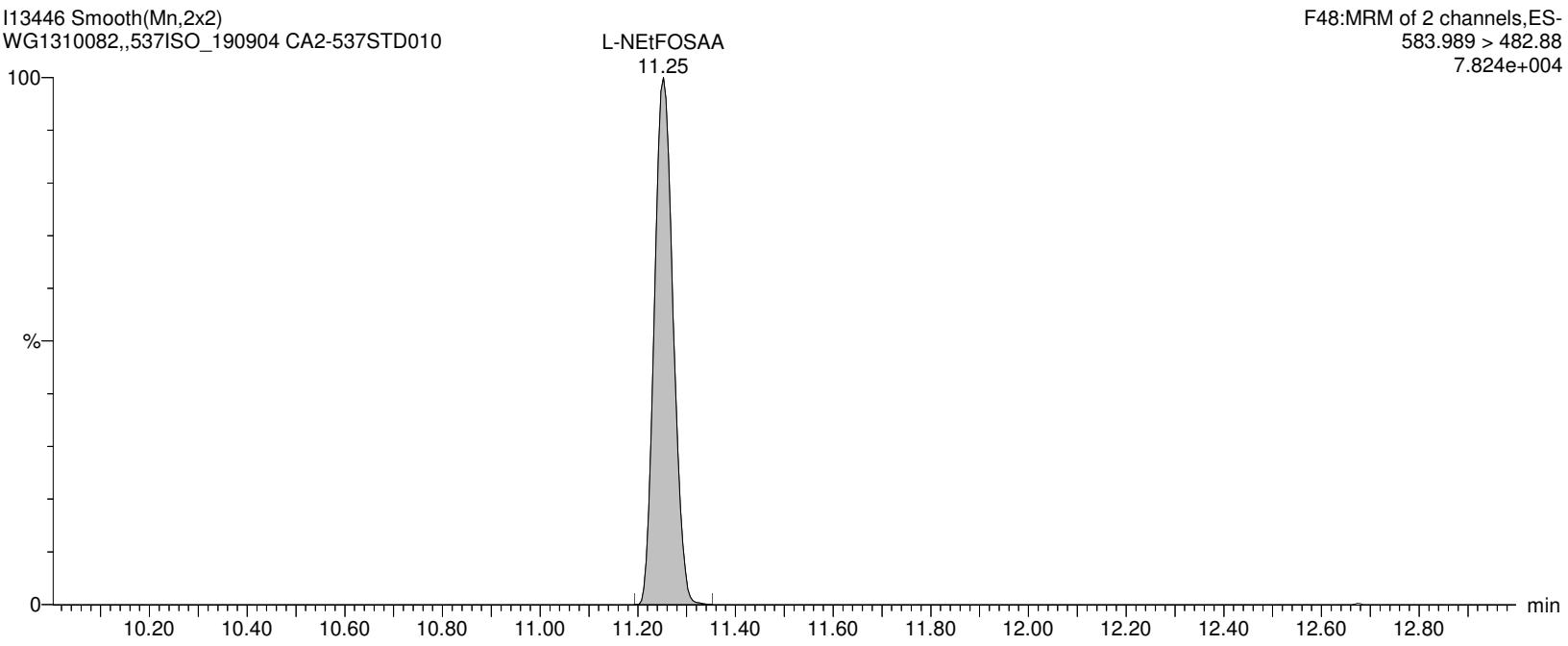

all concentration units in (ng/mL)

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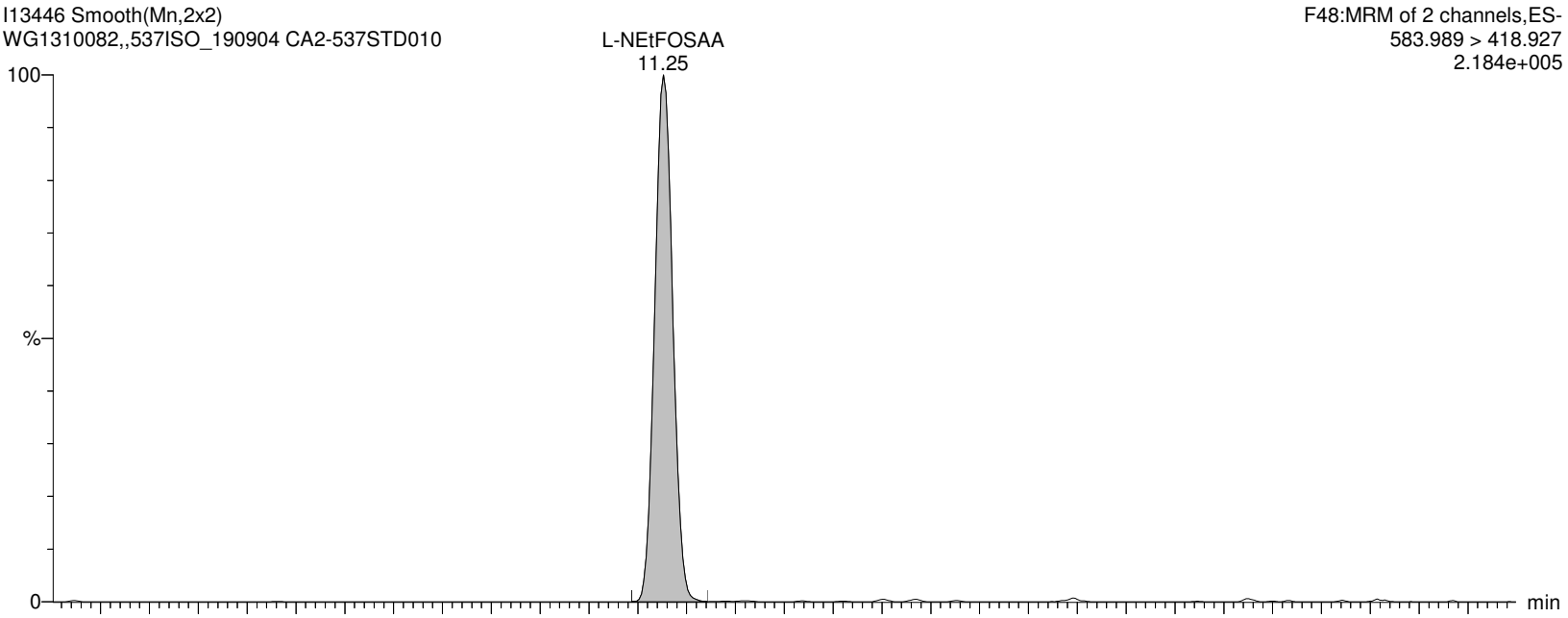

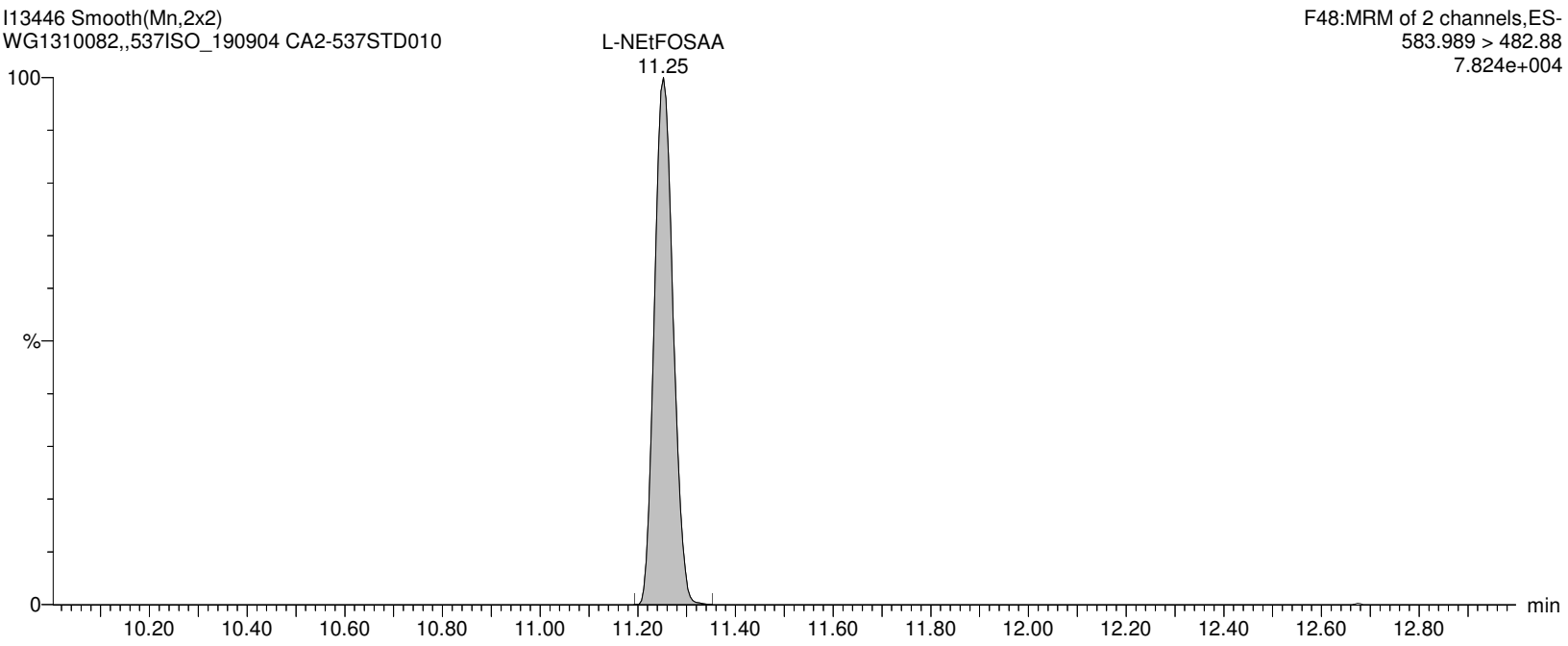

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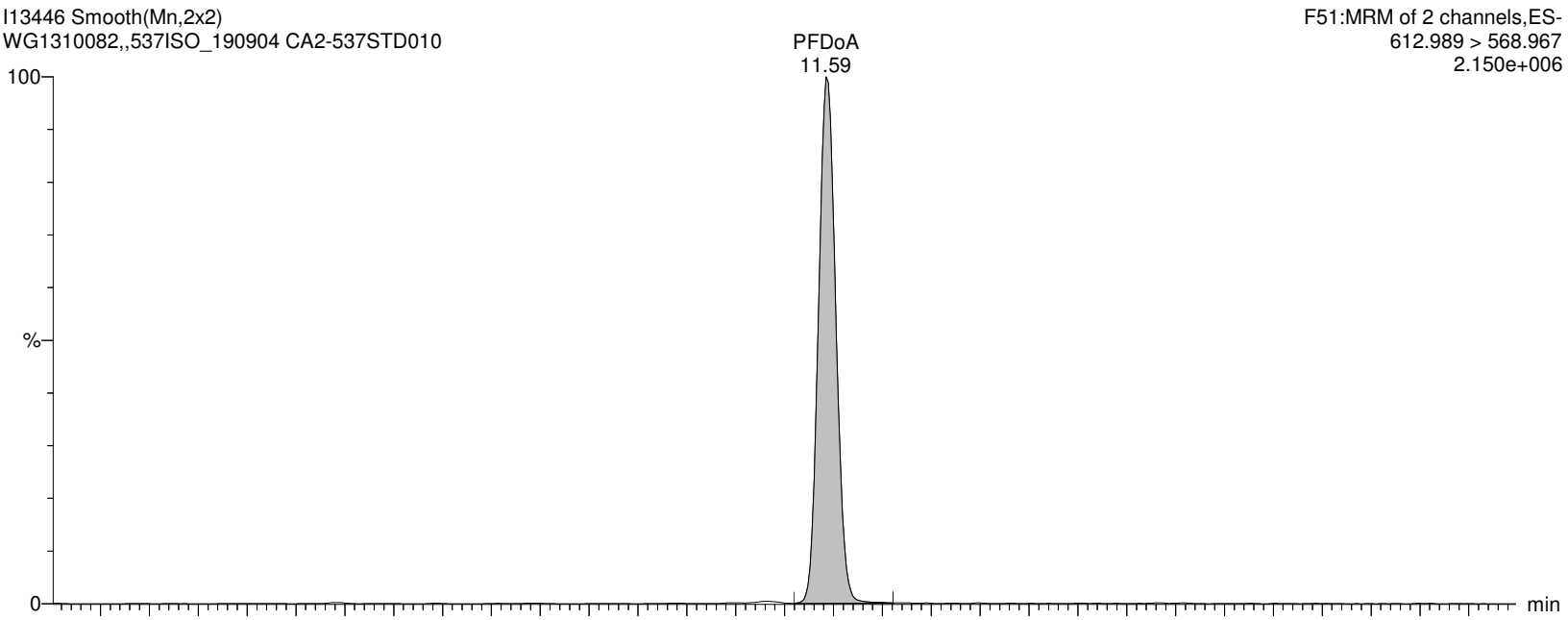

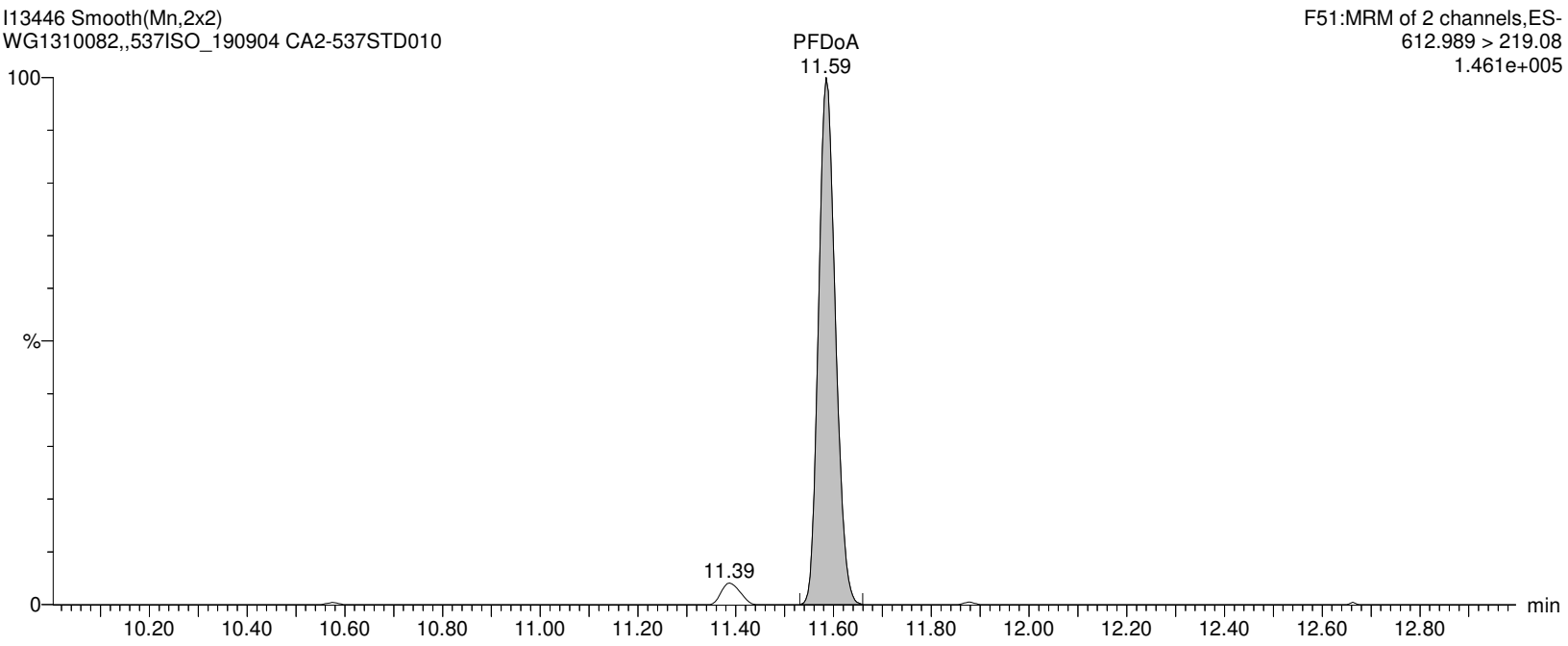

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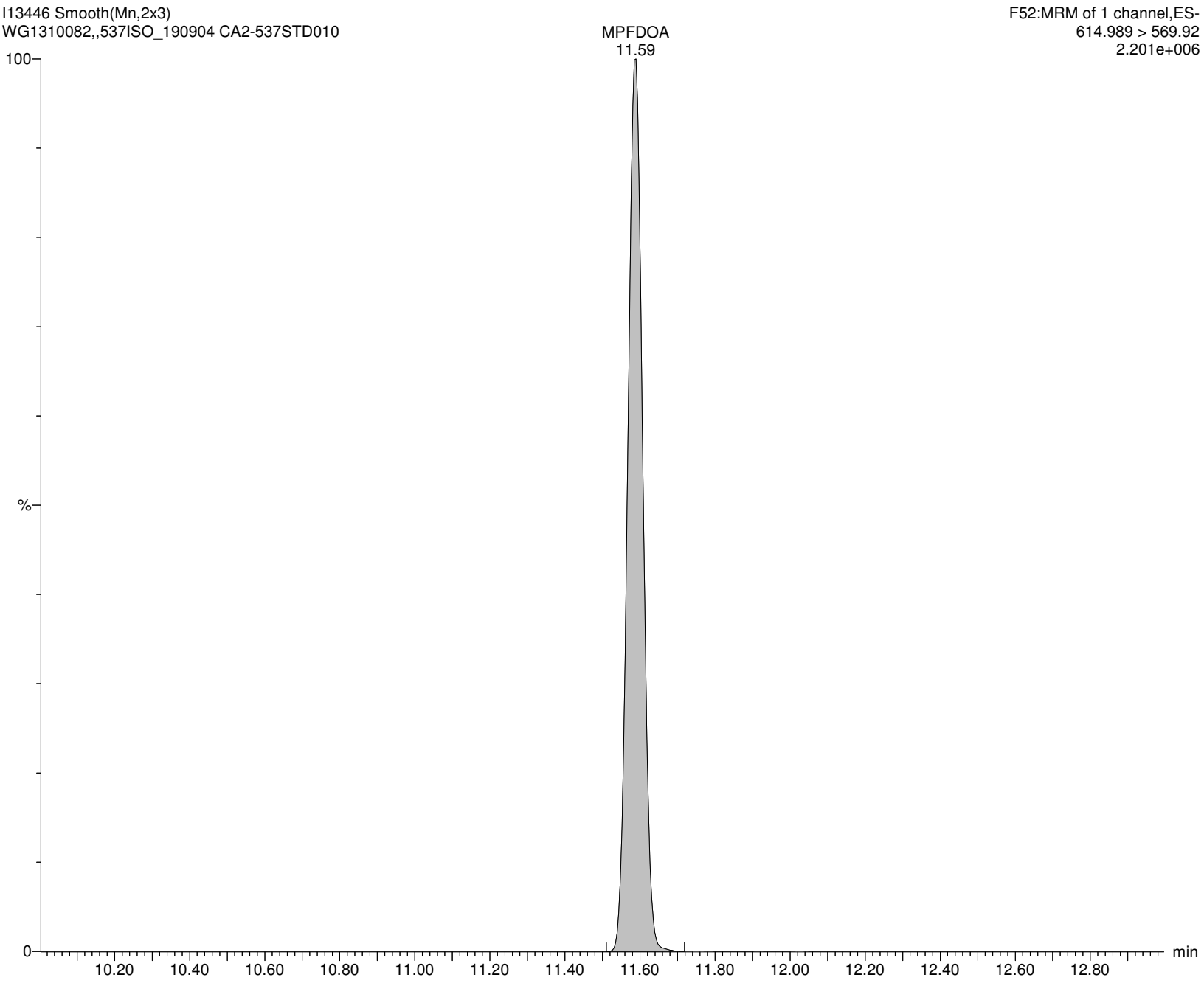

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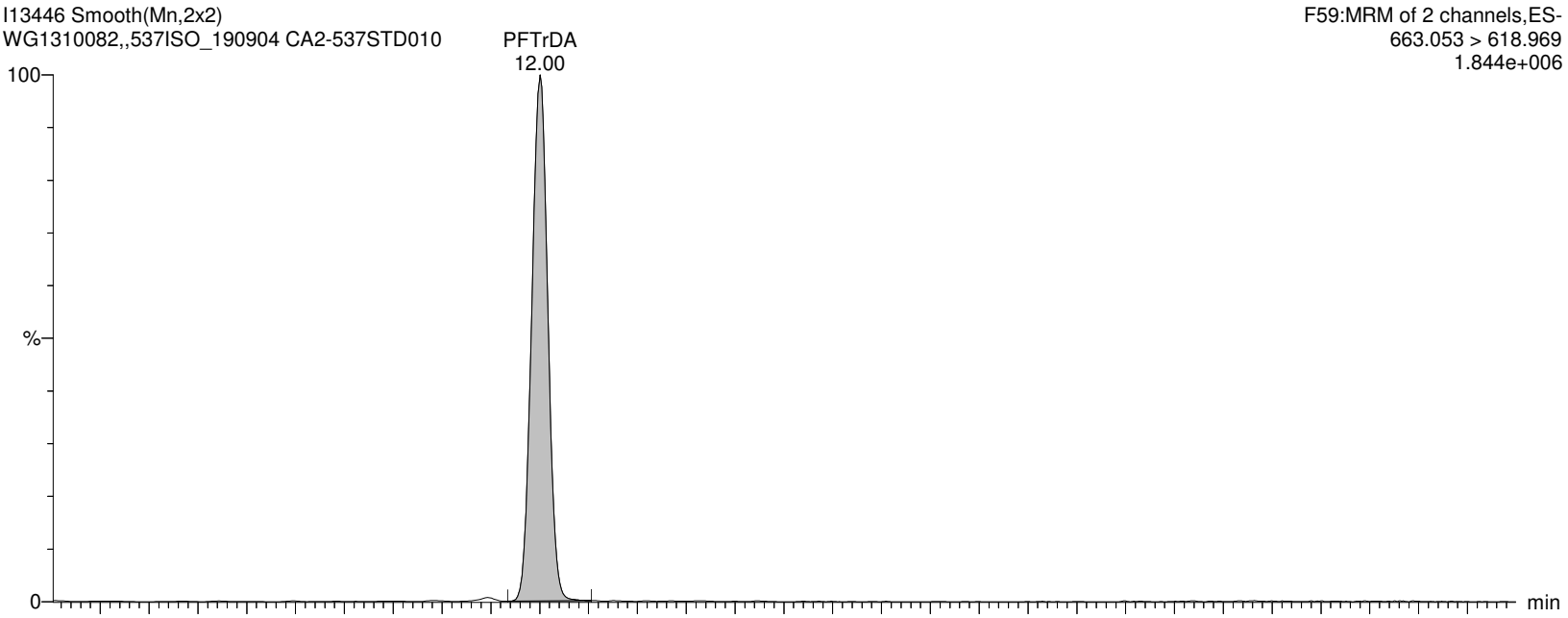

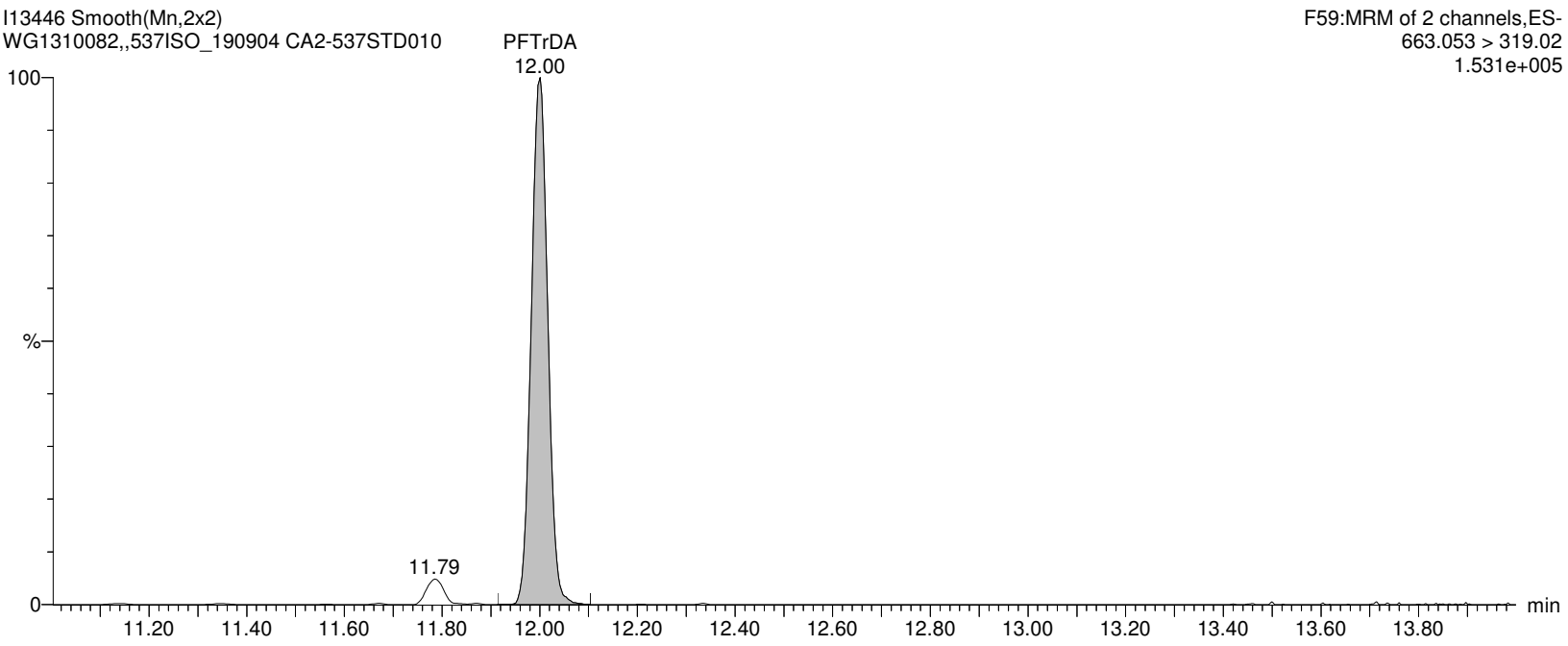

all concentration units in (ng/mL)

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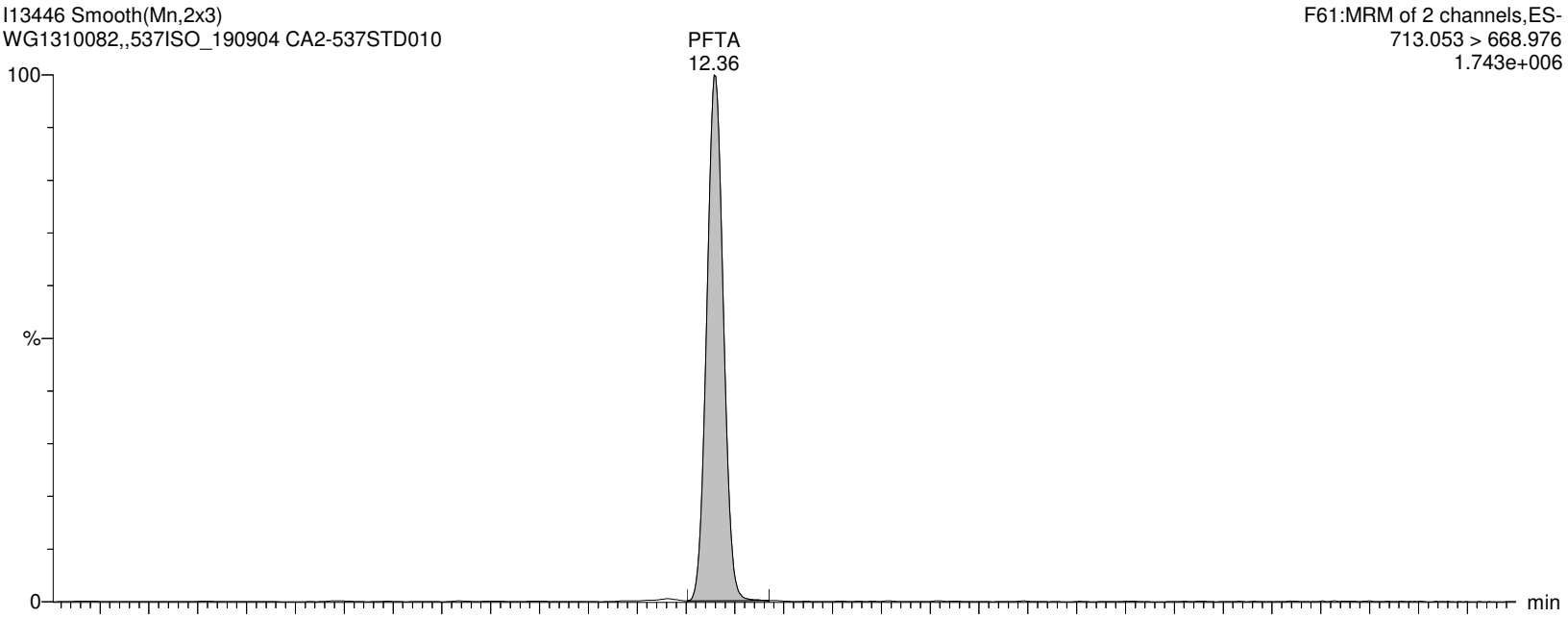

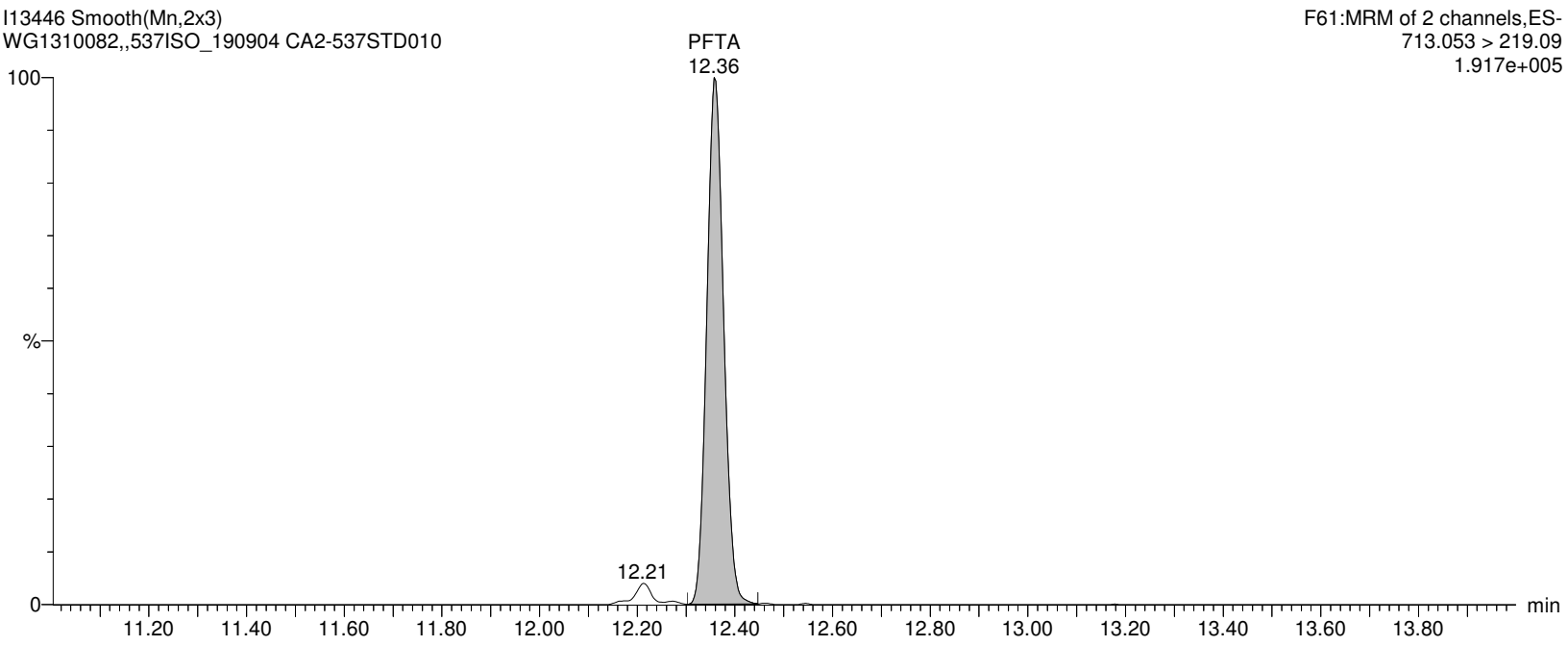

all concentration units in (ng/mL)

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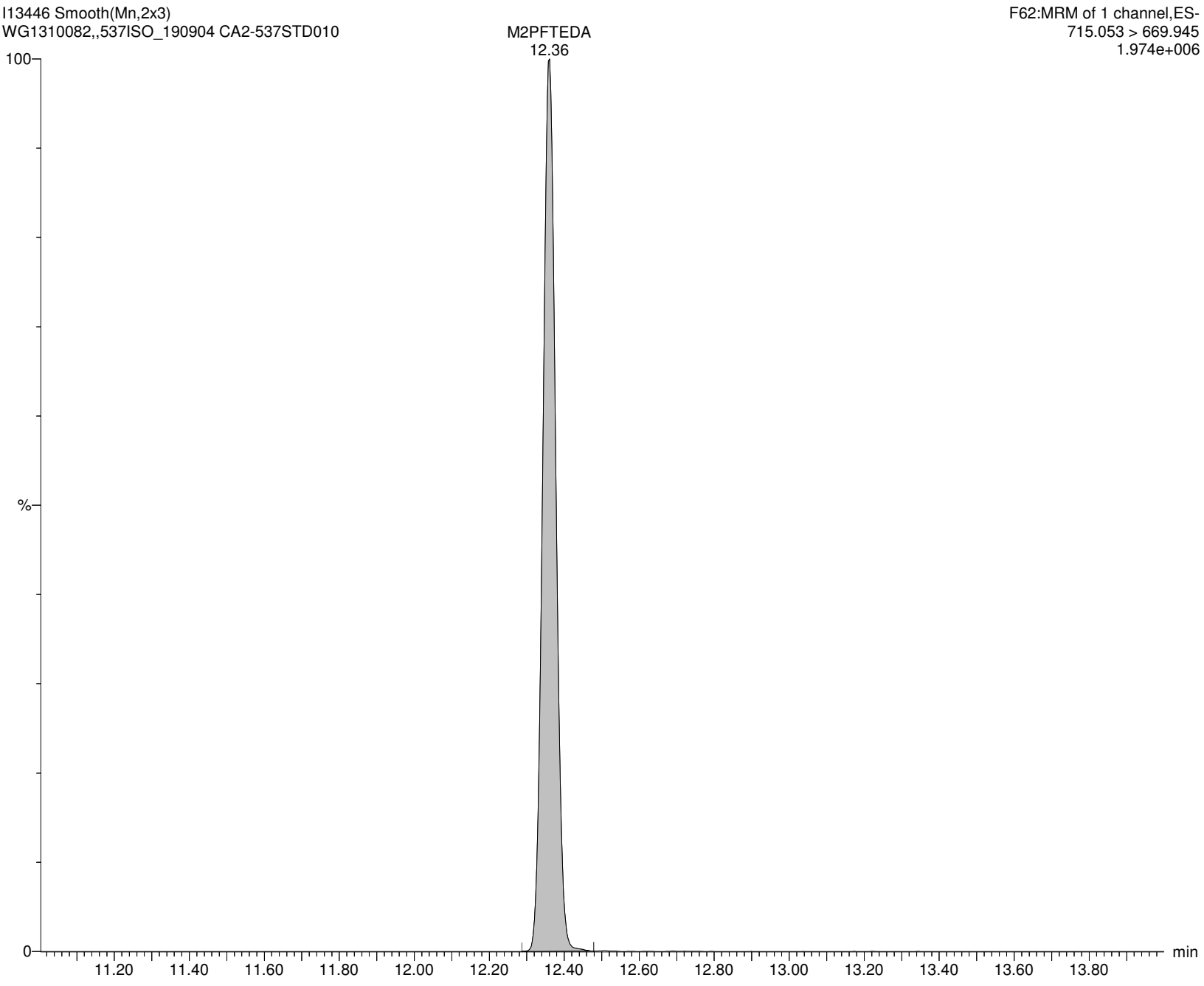

all concentration units in (ng/mL)

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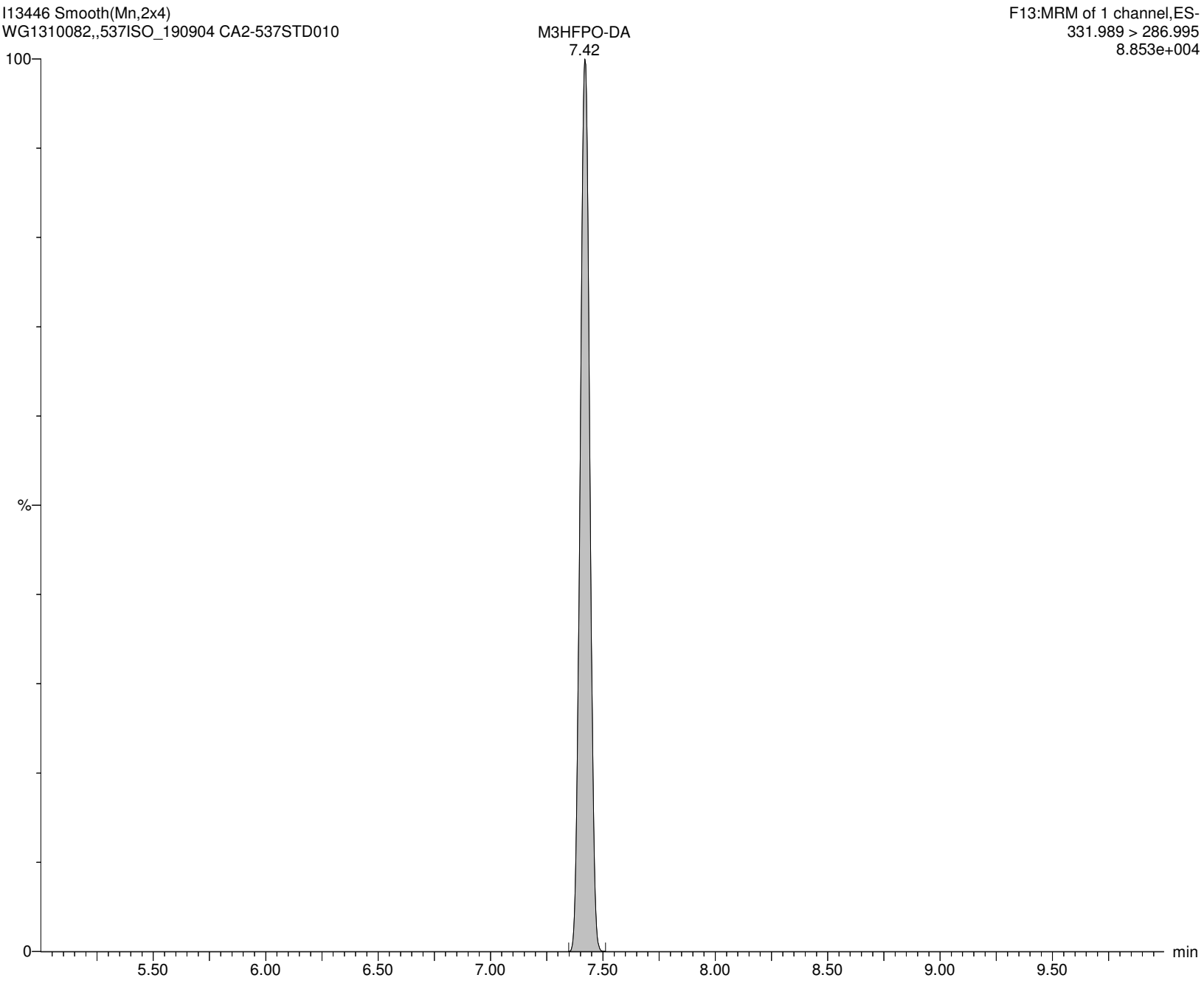

all concentration units in (ng/mL)

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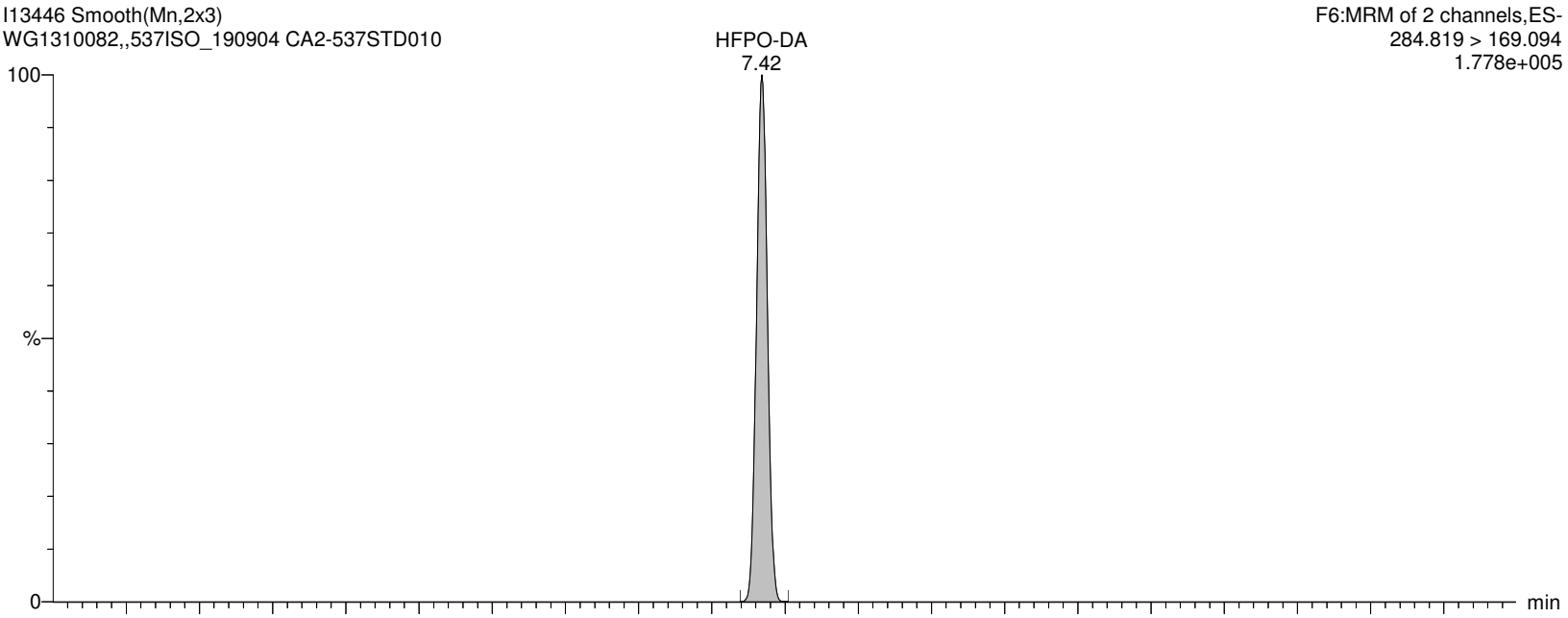

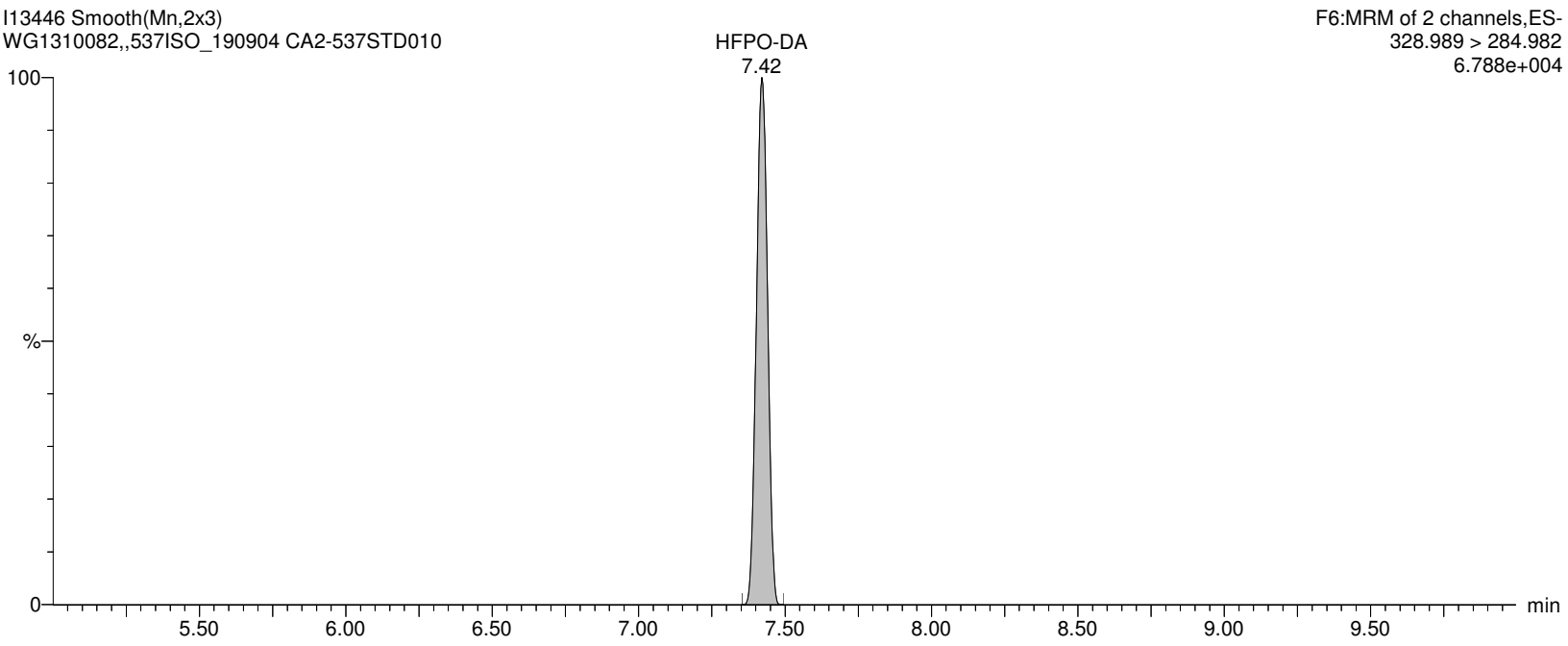

all concentration units in (ng/mL)

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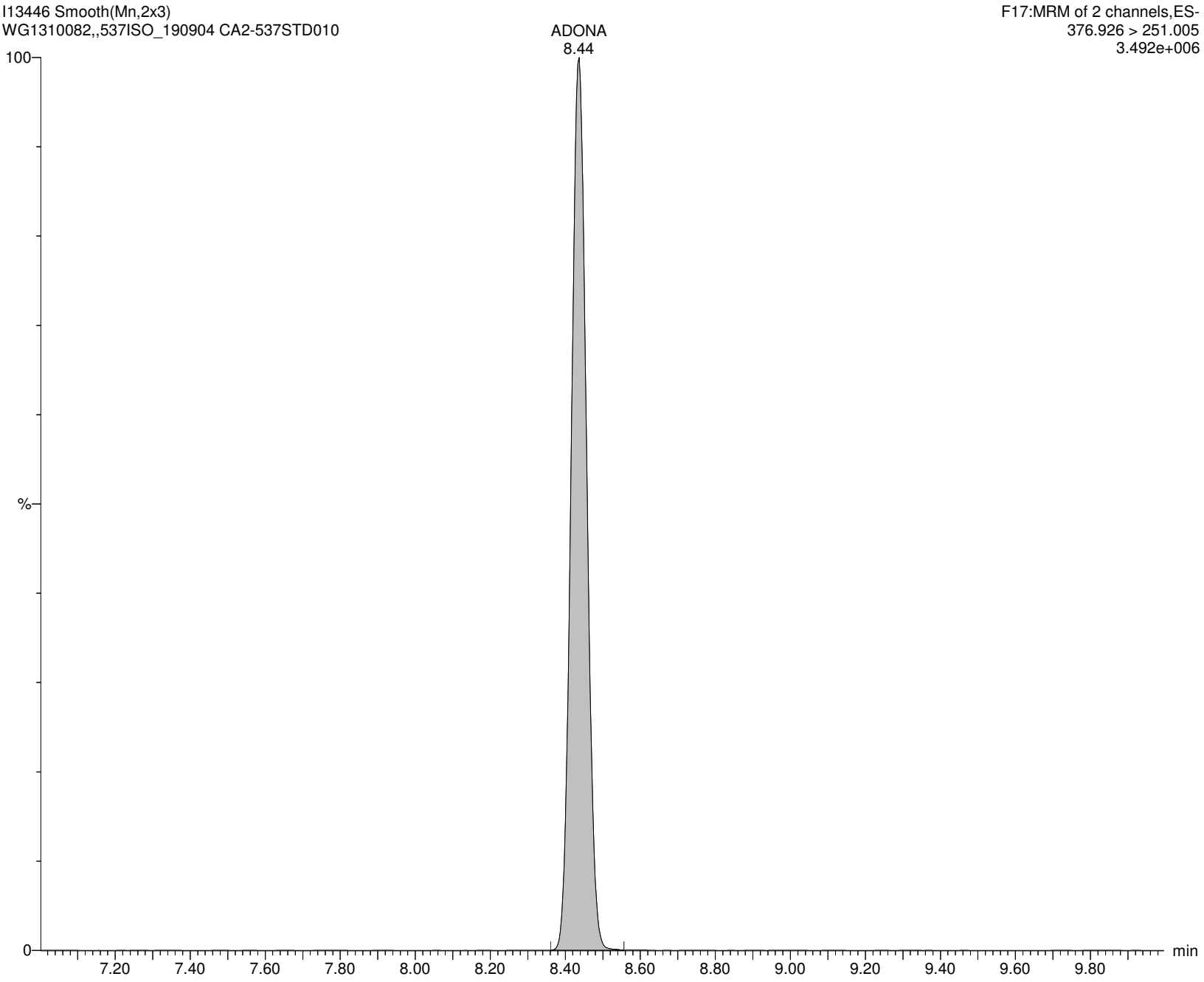

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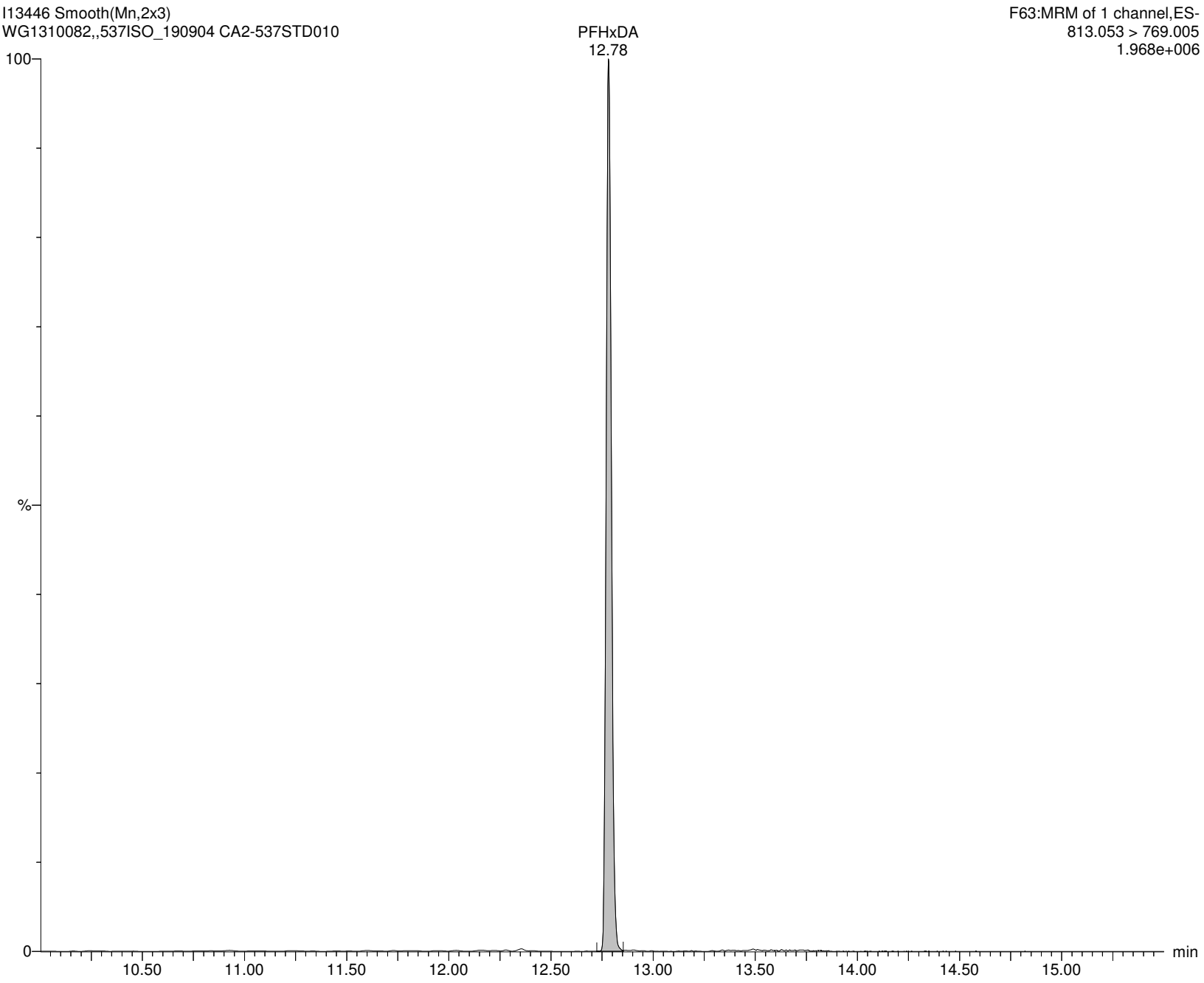

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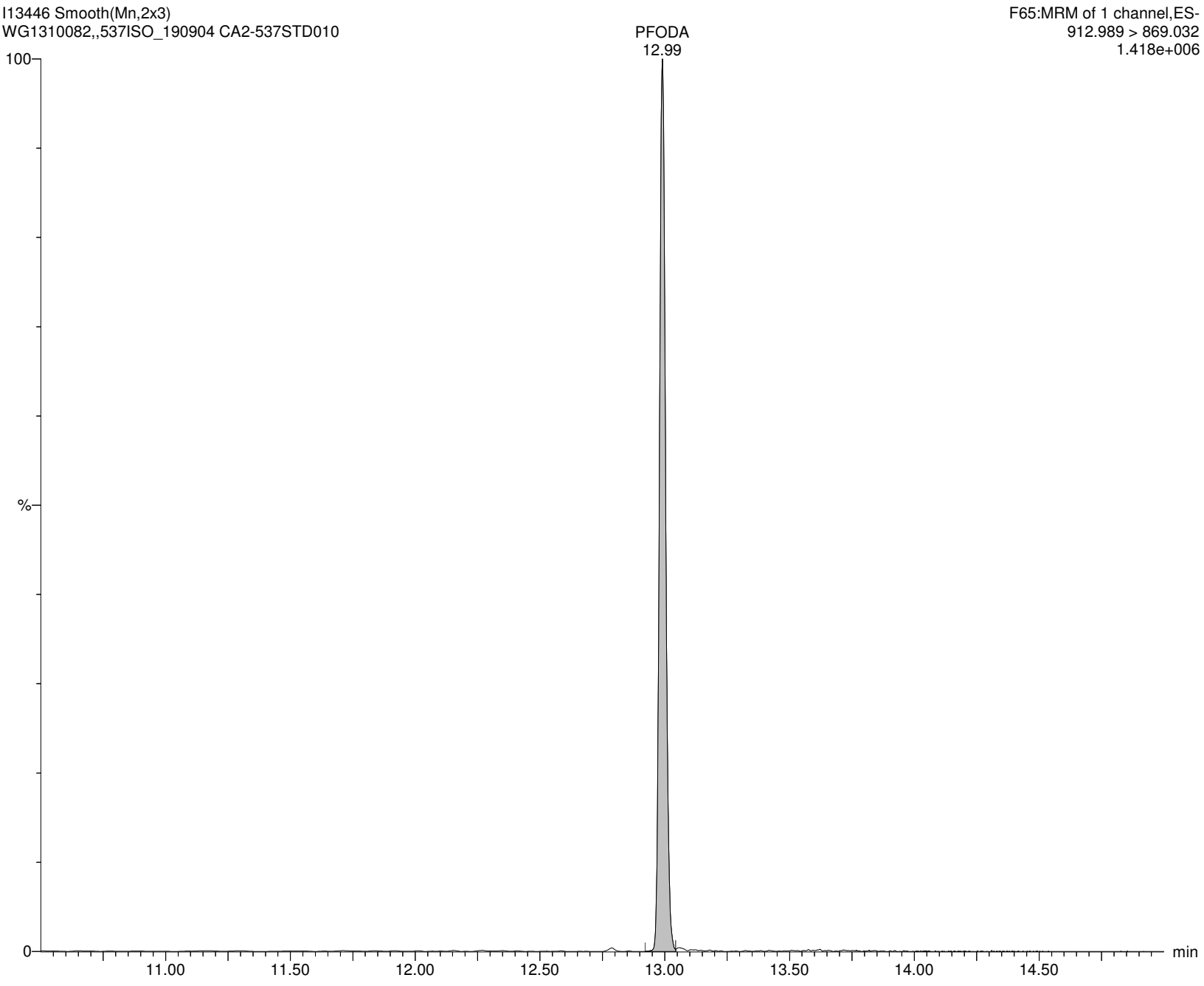

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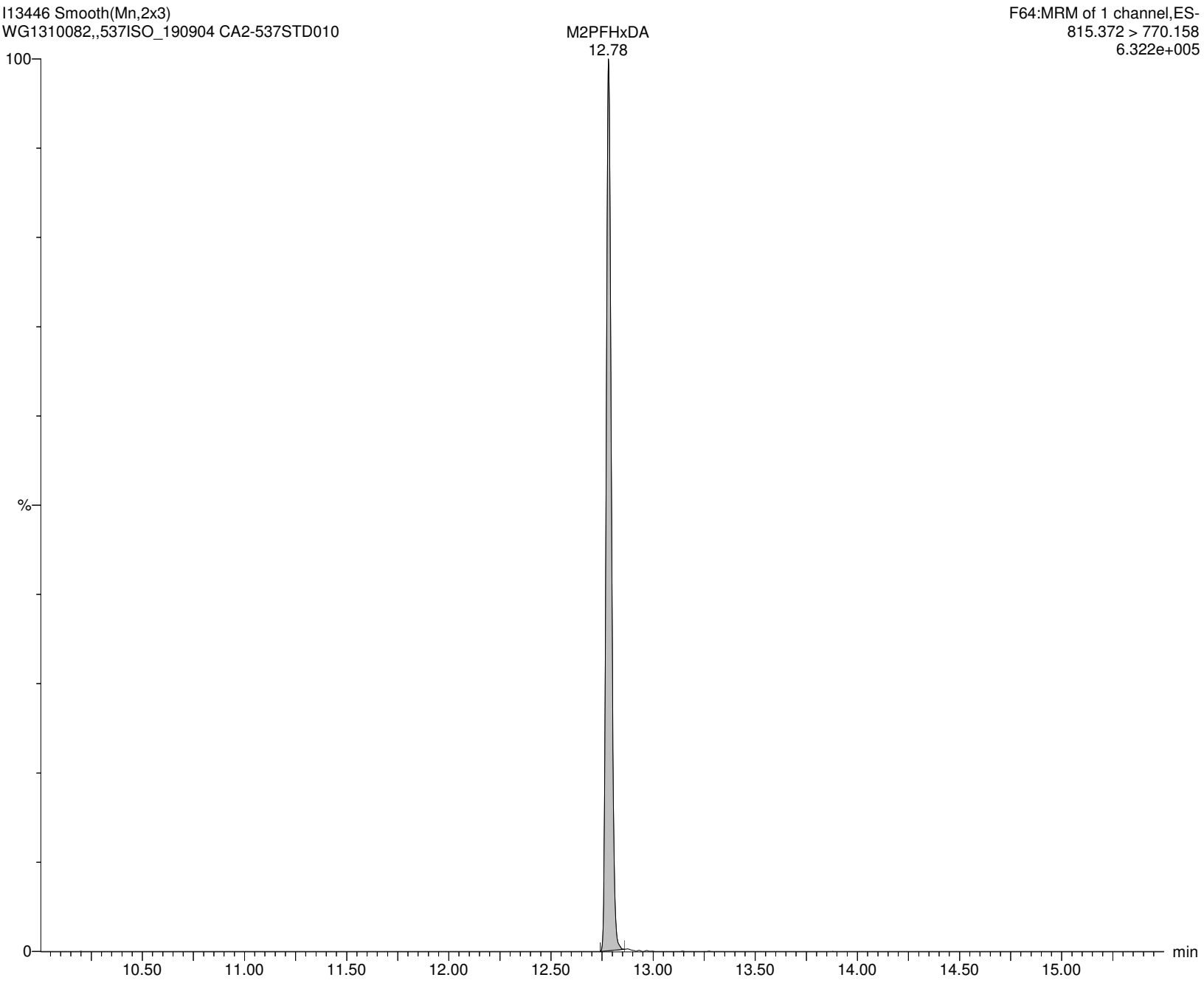

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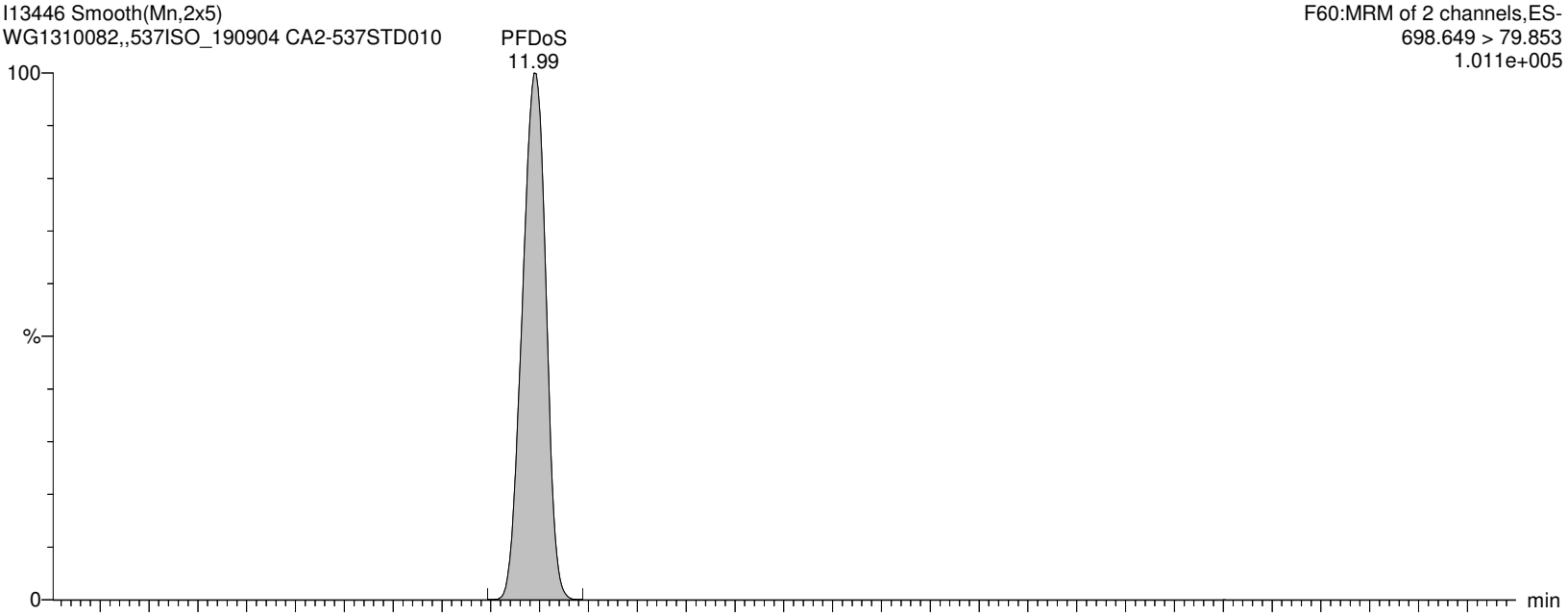

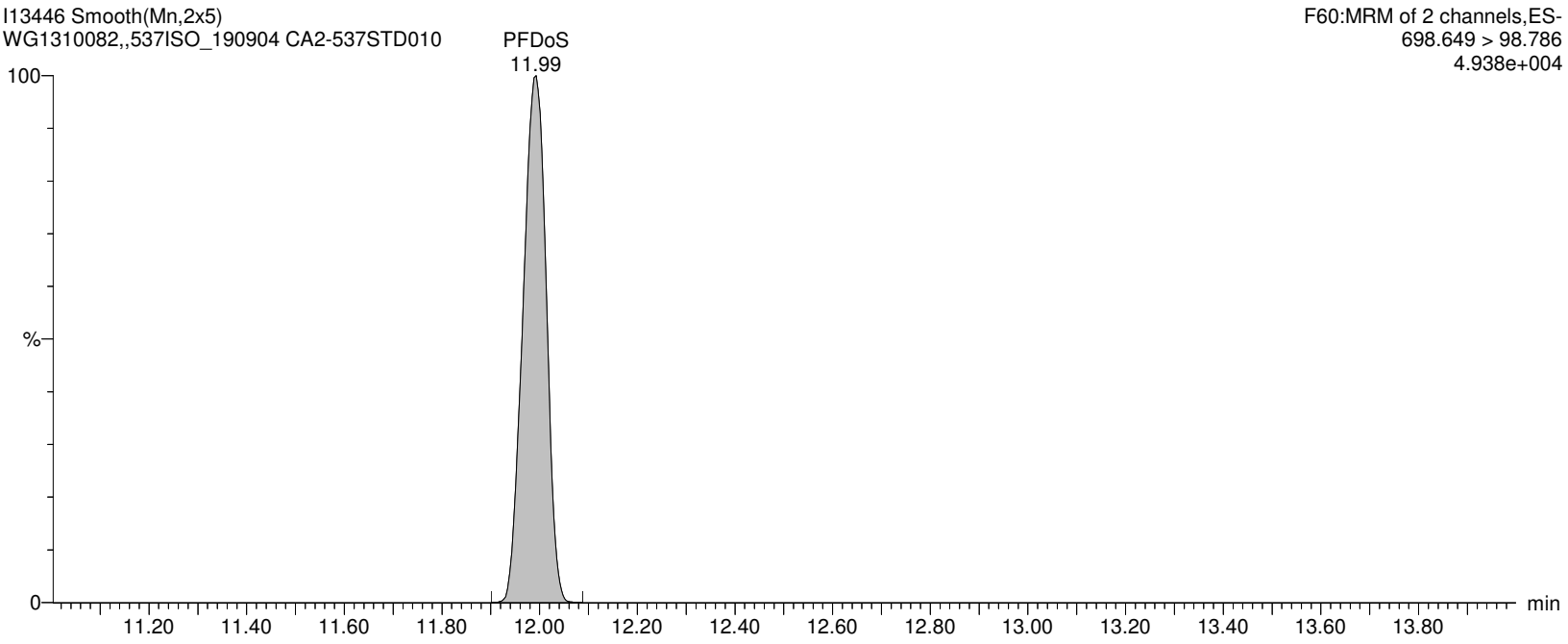

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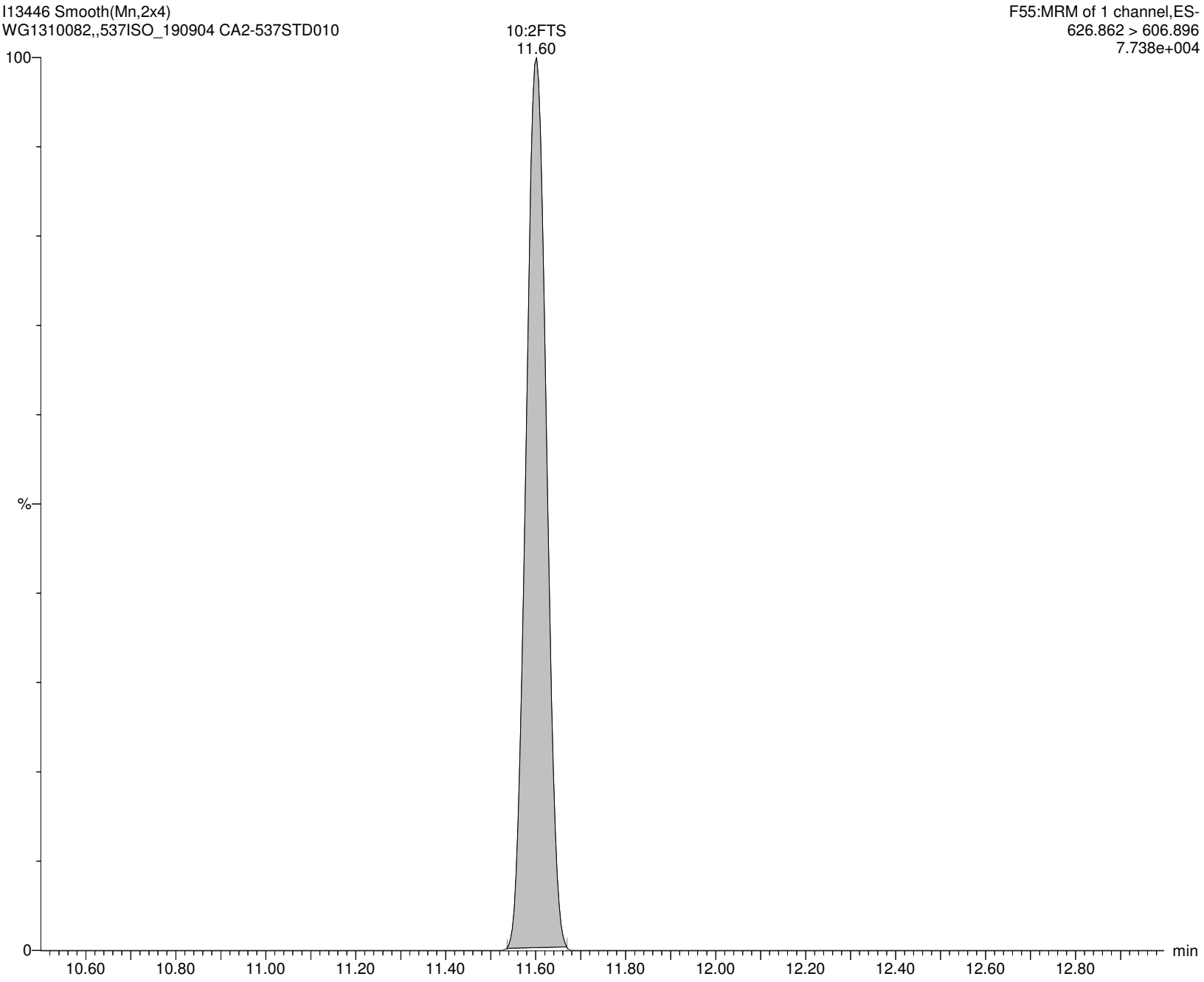

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
Printed: Monday, November 18, 2019 14:24:51 Eastern Standard Time

Name: I13446
ID: CA2-537STD010
Date: 18-Nov-2019
Time: 14:05:52
Description: WG1310082,,537ISO_190904
User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
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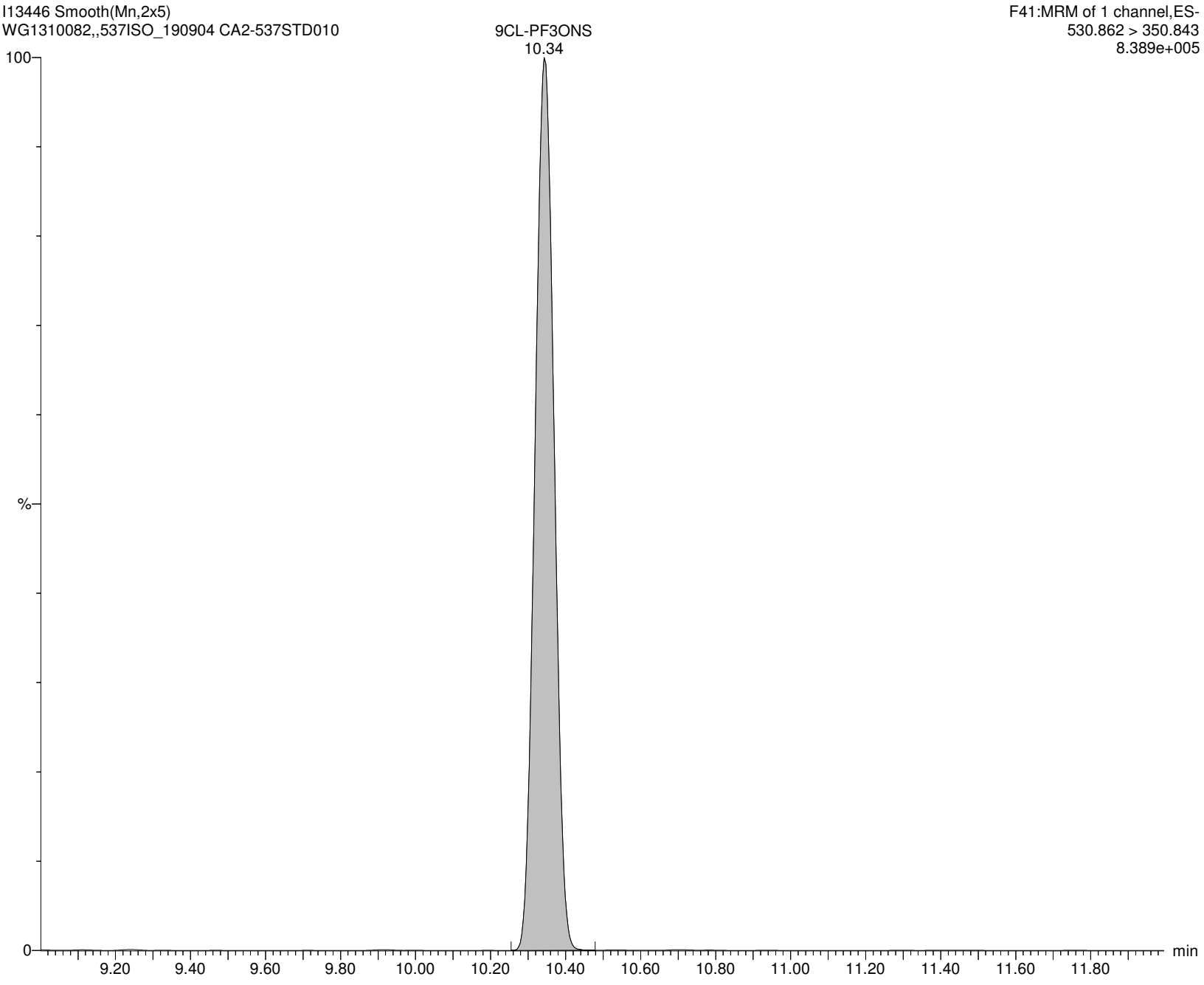

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
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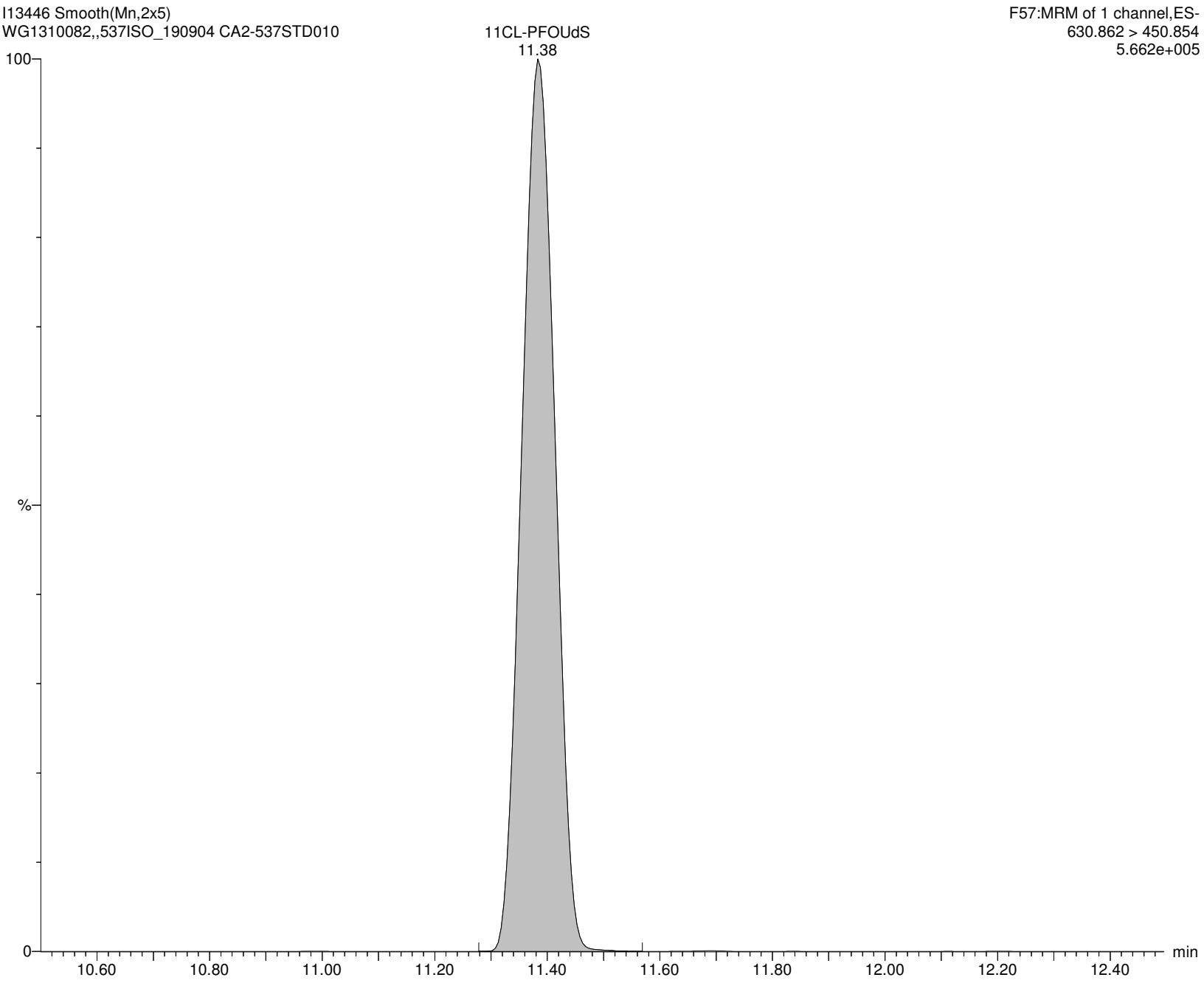

all concentration units in (ng/mL)

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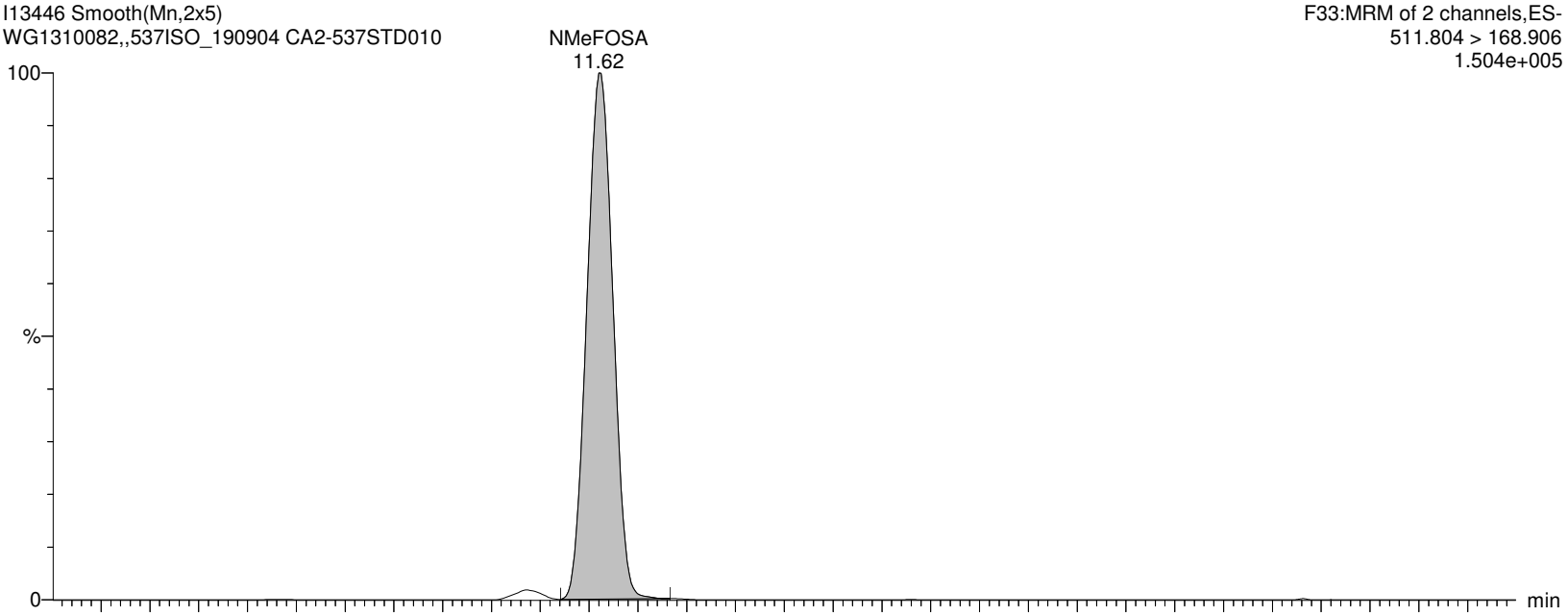

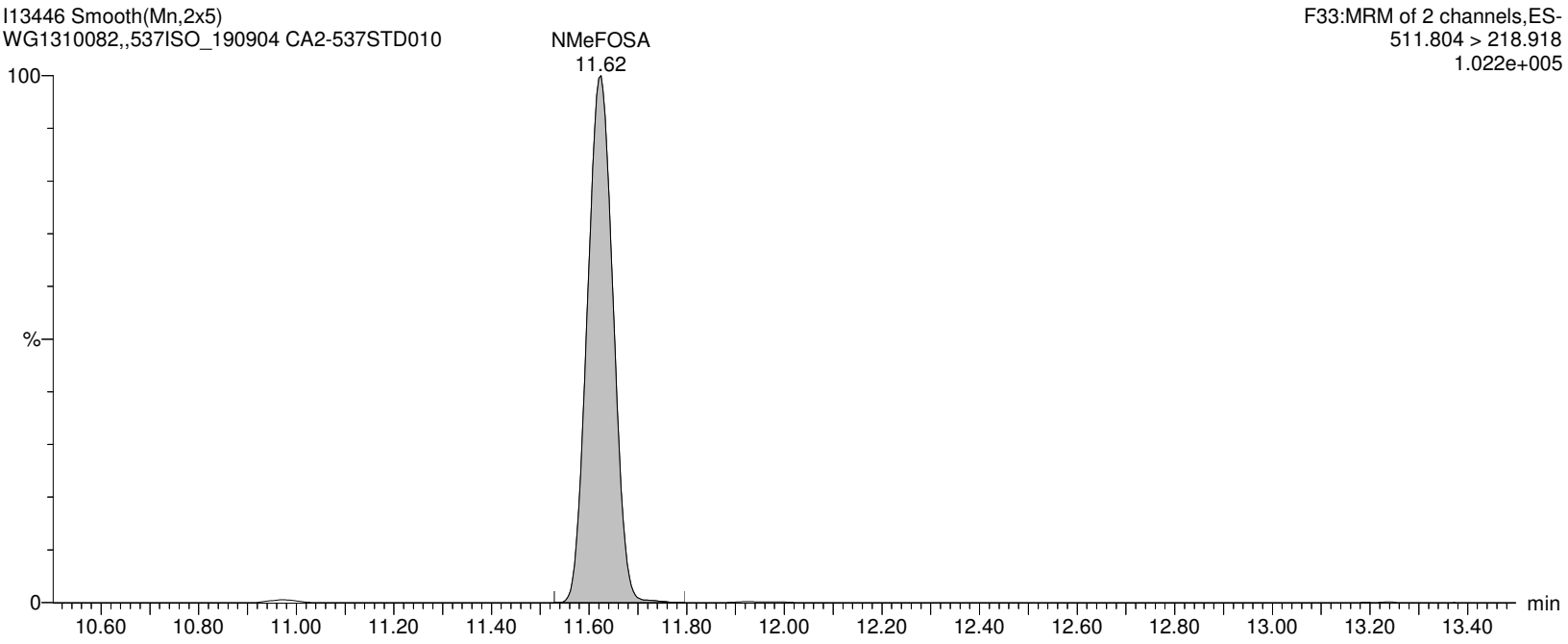

all concentration units in (ng/mL)

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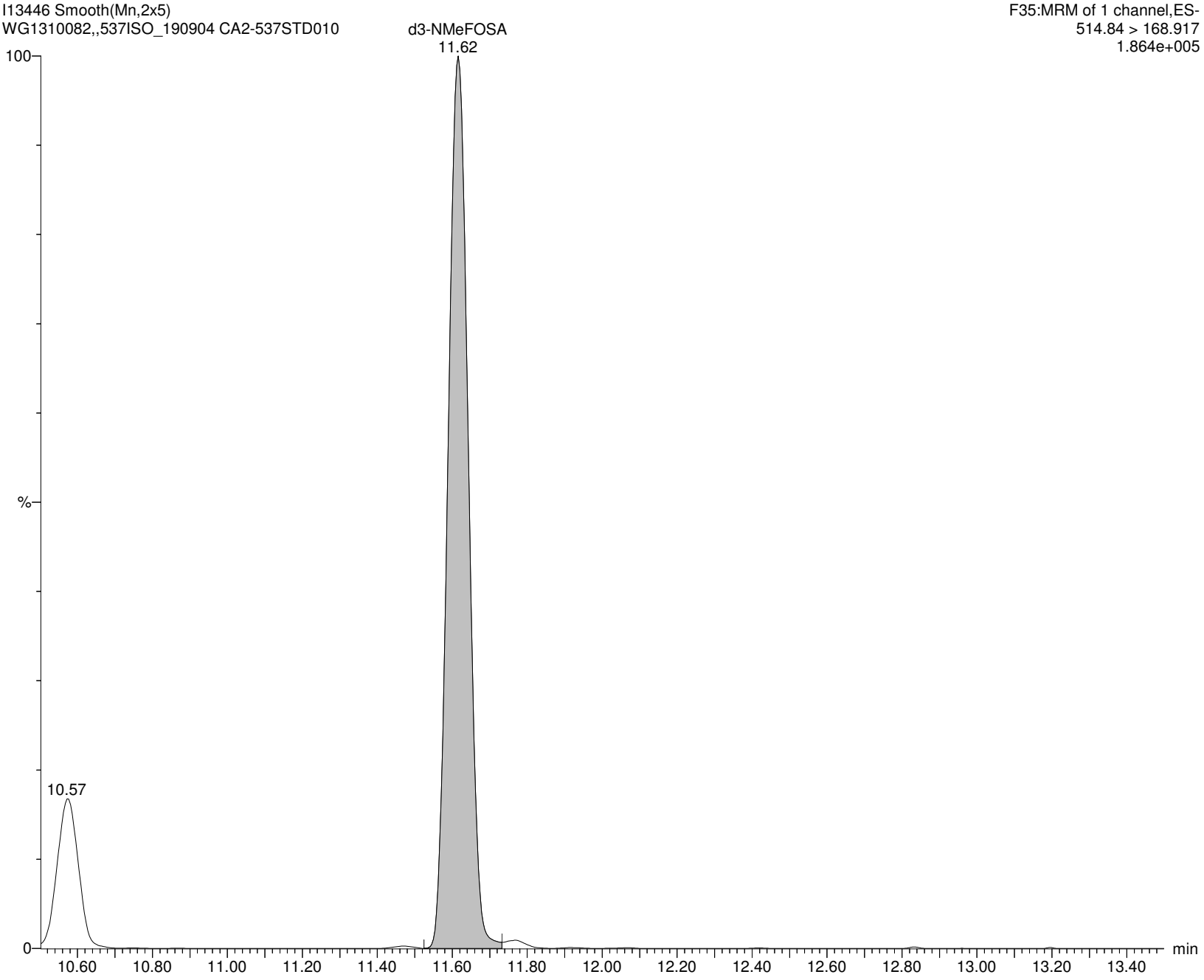

all concentration units in (ng/mL)

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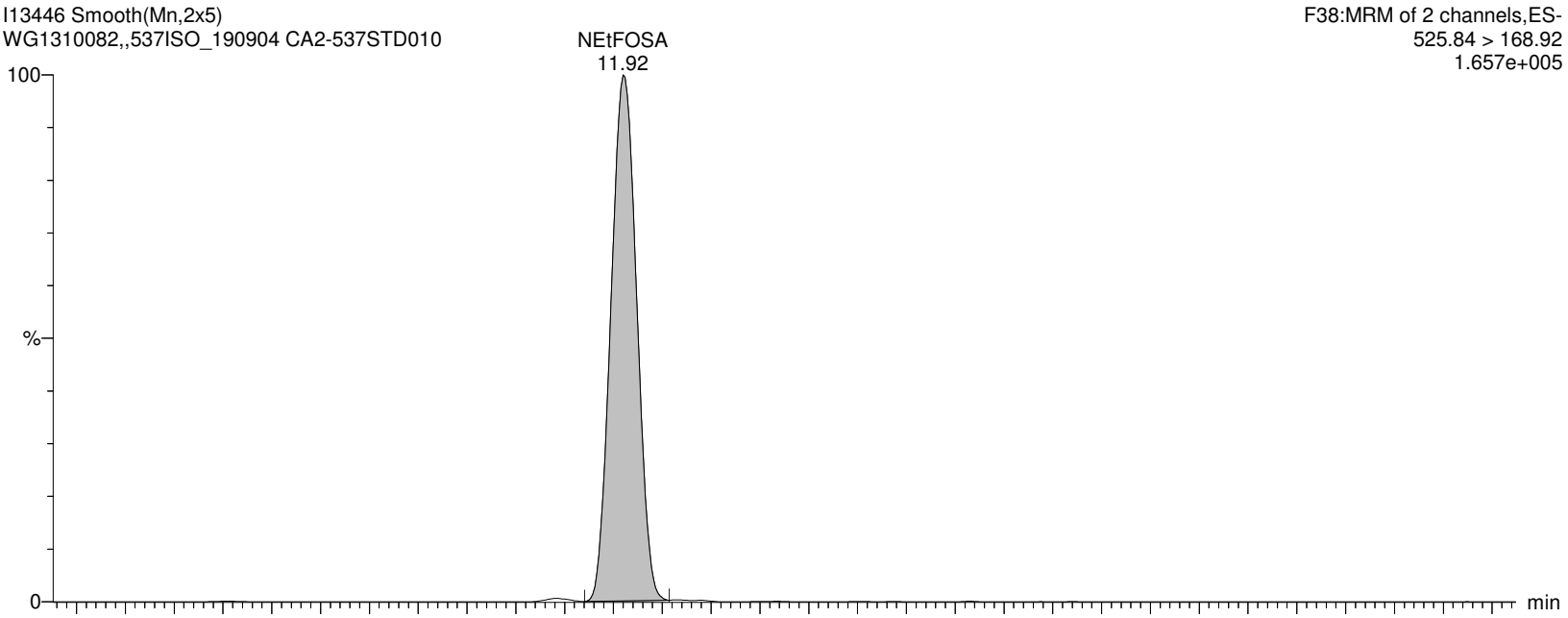
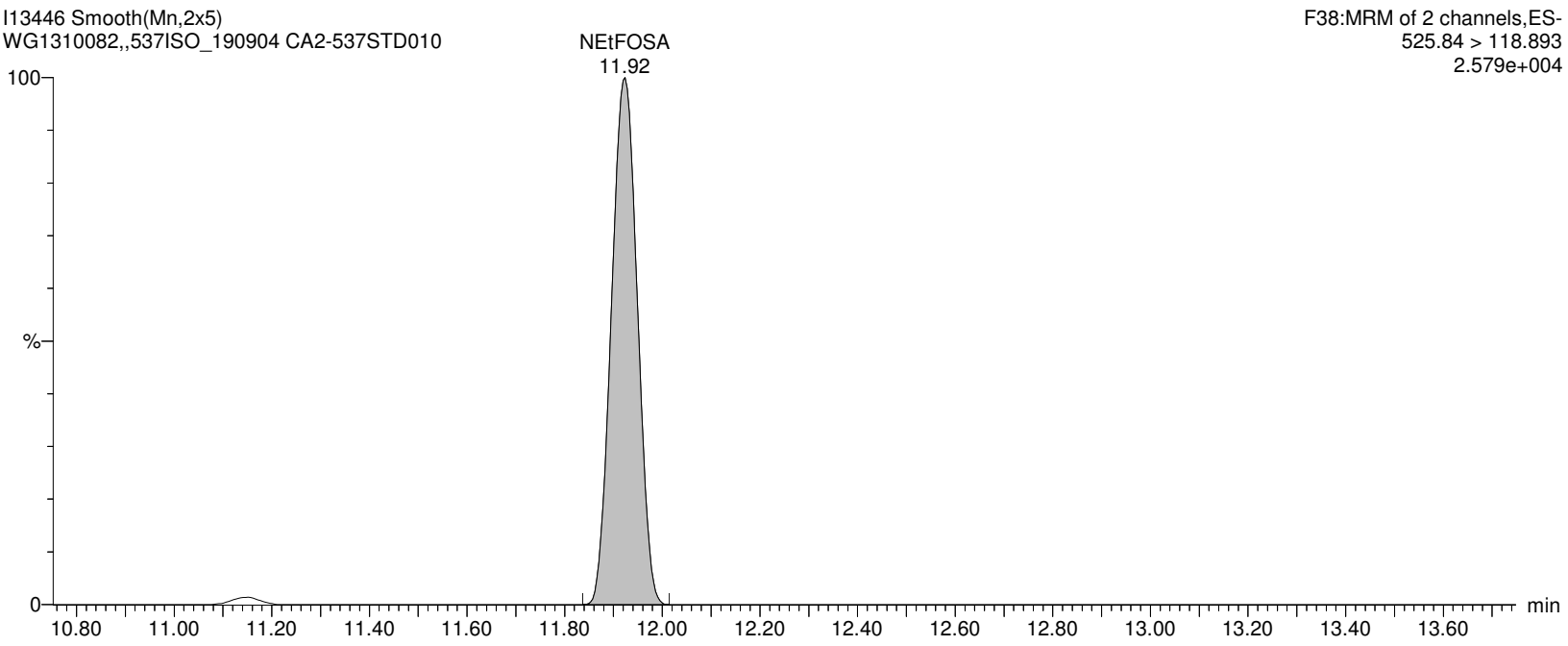
NEtFOSA





all concentration units in (ng/mL)

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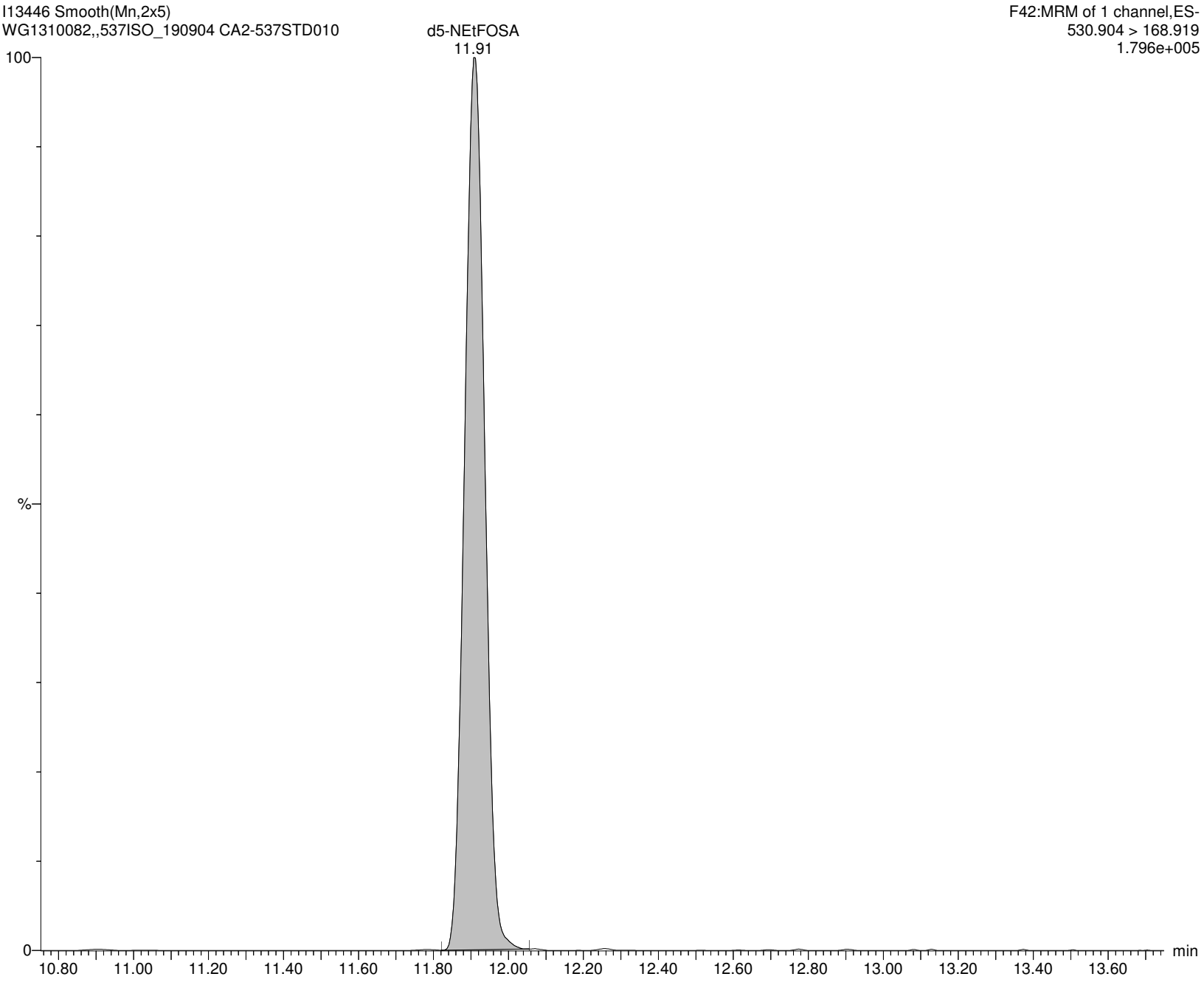

all concentration units in (ng/mL)

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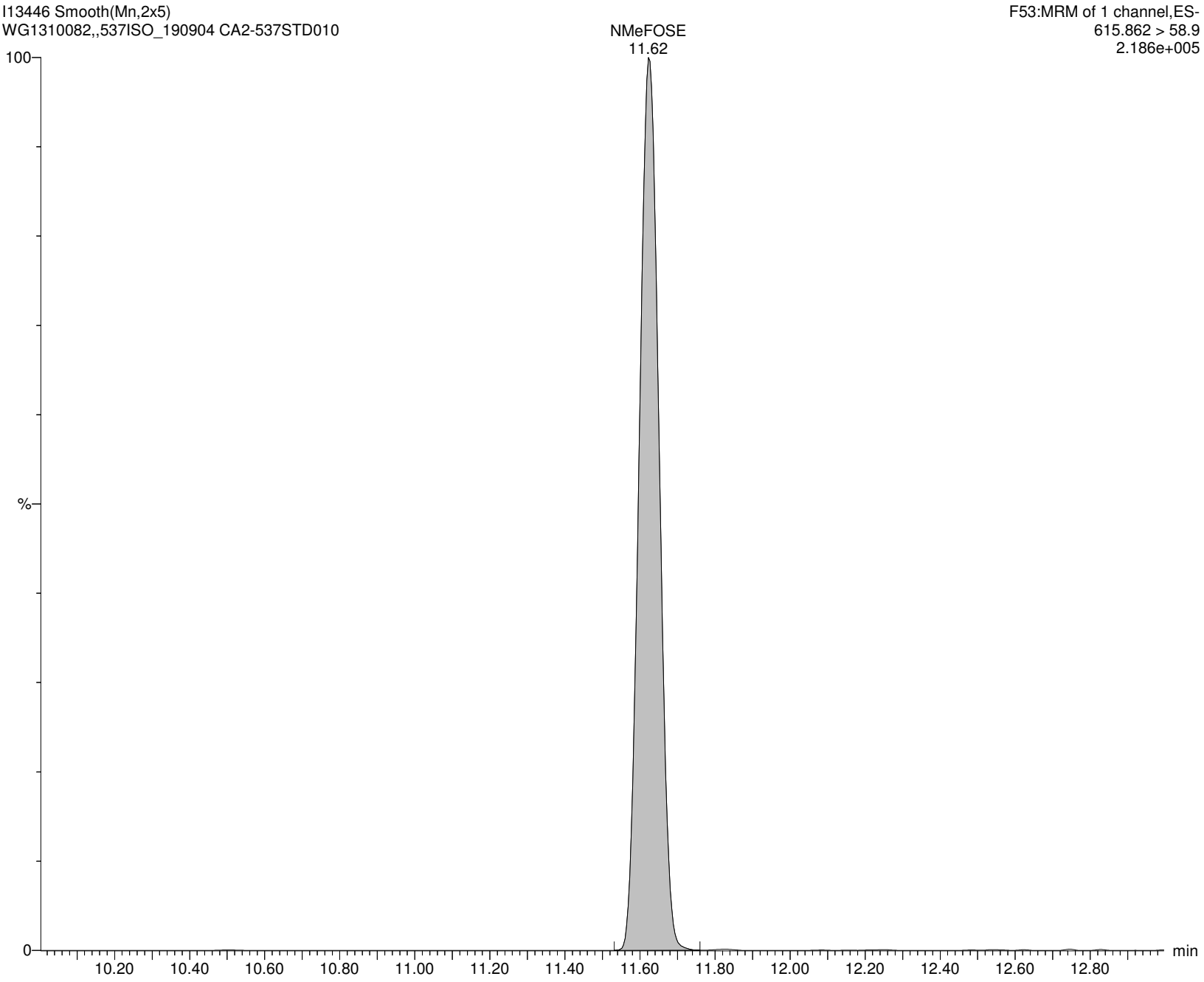

all concentration units in (ng/mL)

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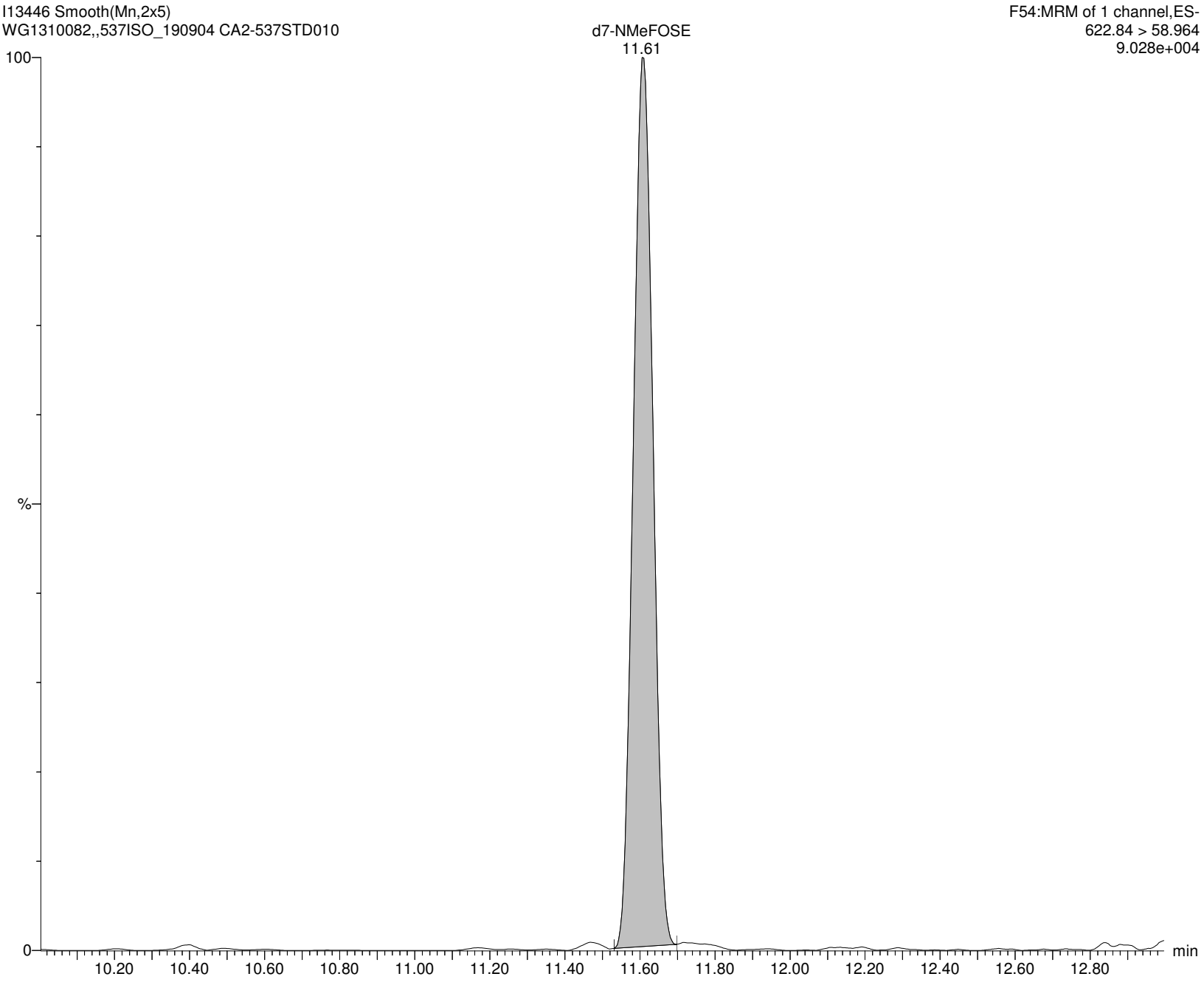

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
Last Altered: Monday, November 18, 2019 14:24:08 Eastern Standard Time
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Date: 18-Nov-2019
Time: 14:05:52
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Vial: 1:B,3
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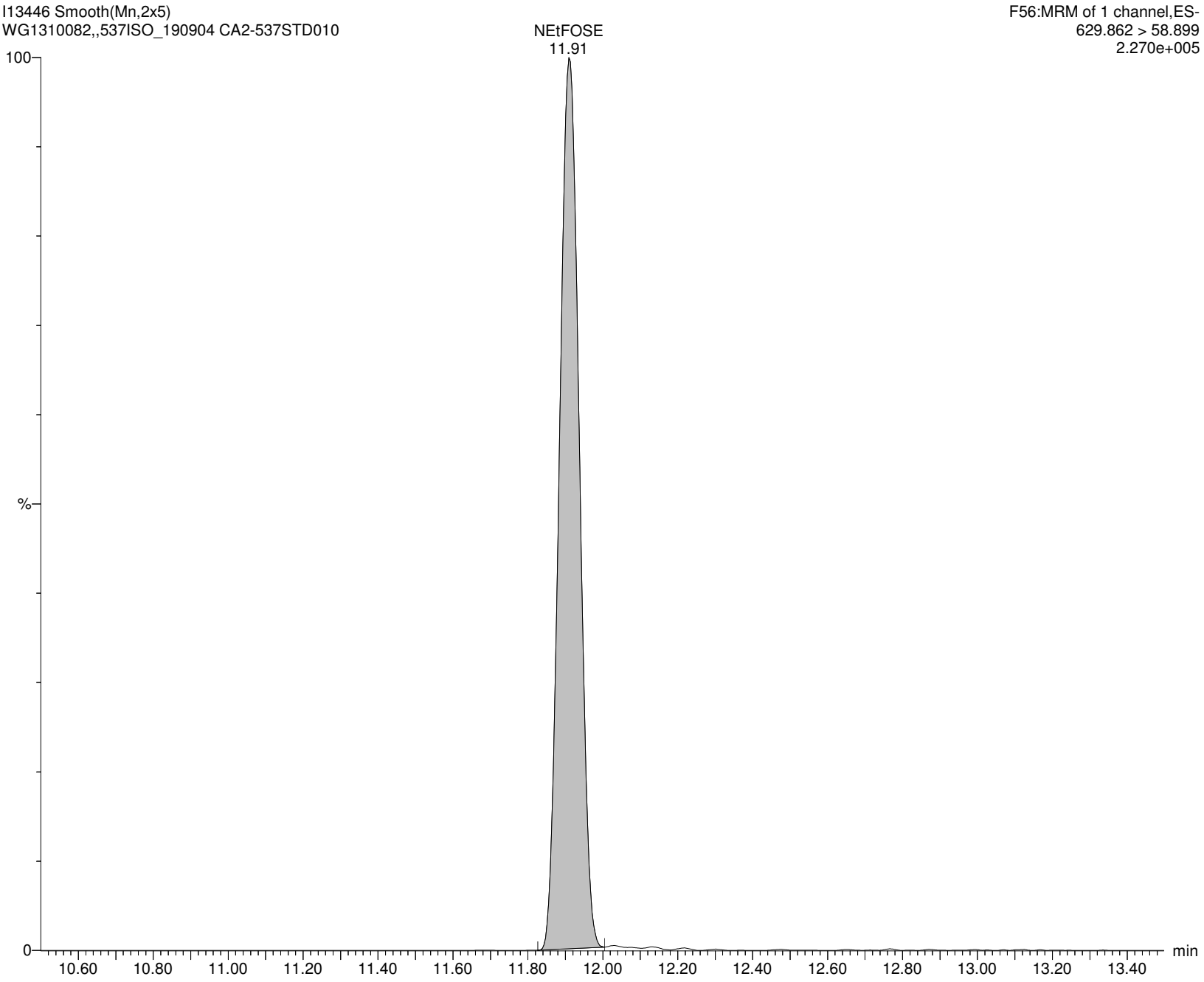

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\WG1310082ICV.qld
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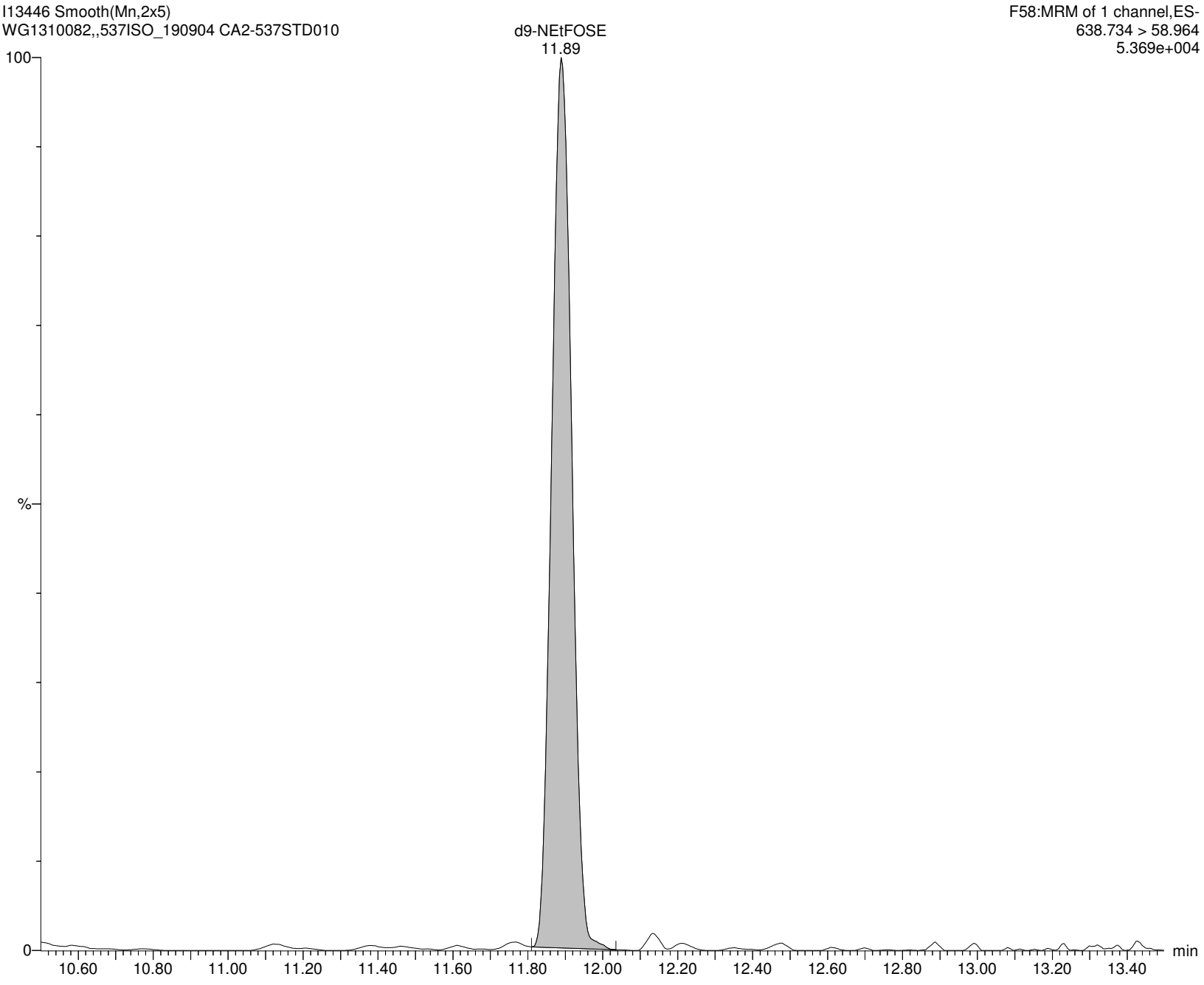

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
Printed: Monday, November 18, 2019 14:47:32 Eastern Standard Time

Method: C:\MassLynx\Data\2019\191118_537ISO.PRO\MethDB\537ISO_Q_191118_DOD .mdb 18 Nov 2019 13:42:01
Calibration: C:\MassLynx\Data\2019\191118_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 13:41:42

ID: TECHSTD_190520A
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Date: 18-Nov-2019
Time: 14:22:24
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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	br-PFOA	335-67-1	8.97	412.989 > 368.9	60850	M5	5.471	36.51	NO	
2	L-PFOA	335-67-1	9.19	412.989 > 368.9	412670		37.100	10.04	NO	
3	PFOA	335-67-1		412.989 > 368.9	473520		42.570		na	
4	br-PFOS	1763-23-1	9.74	498.989 > 80.294	13931	M5	11.735	11.56	NO	
5	L-PFOS	1763-23-1	9.99	498.989 > 80.294	20493		23.891	1.48	YES	
6	PFOS	1763-23-1		498.989 > 80.294	34424		35.625		na	
7	br-NMeFOSAA	2355-31-9	10.80	570.053 > 418.917	5151	M5	5.017	1.38	NO	
8	L-NMeFOSAA	2355-31-9	10.96	570.053 > 418.917	45978		44.787	2.68	NO	
9	NMeFOSAA	2355-31-9		570.053 > 418.917	51129		49.805		na	
10	br-NEtFOSAA	2991-50-6	11.10	583.989 > 418.927	6465	M5	6.775	2.72	NO	
11	L-NEtFOSAA	2991-50-6	11.25	583.989 > 418.927	36796		38.557	2.41	NO	
12	NEtFOSAA	2991-50-6		583.989 > 418.927	43261		45.331		na	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
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Date: 18-Nov-2019
Time: 14:22:24
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User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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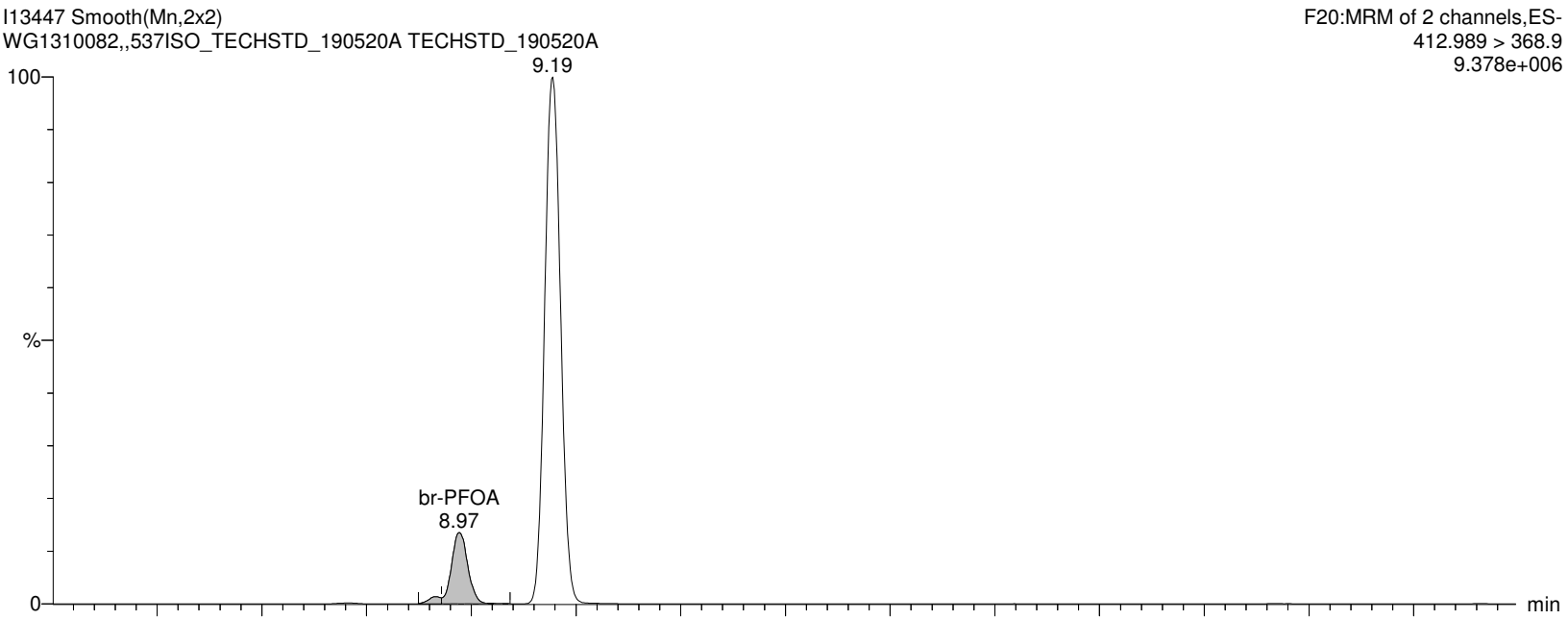

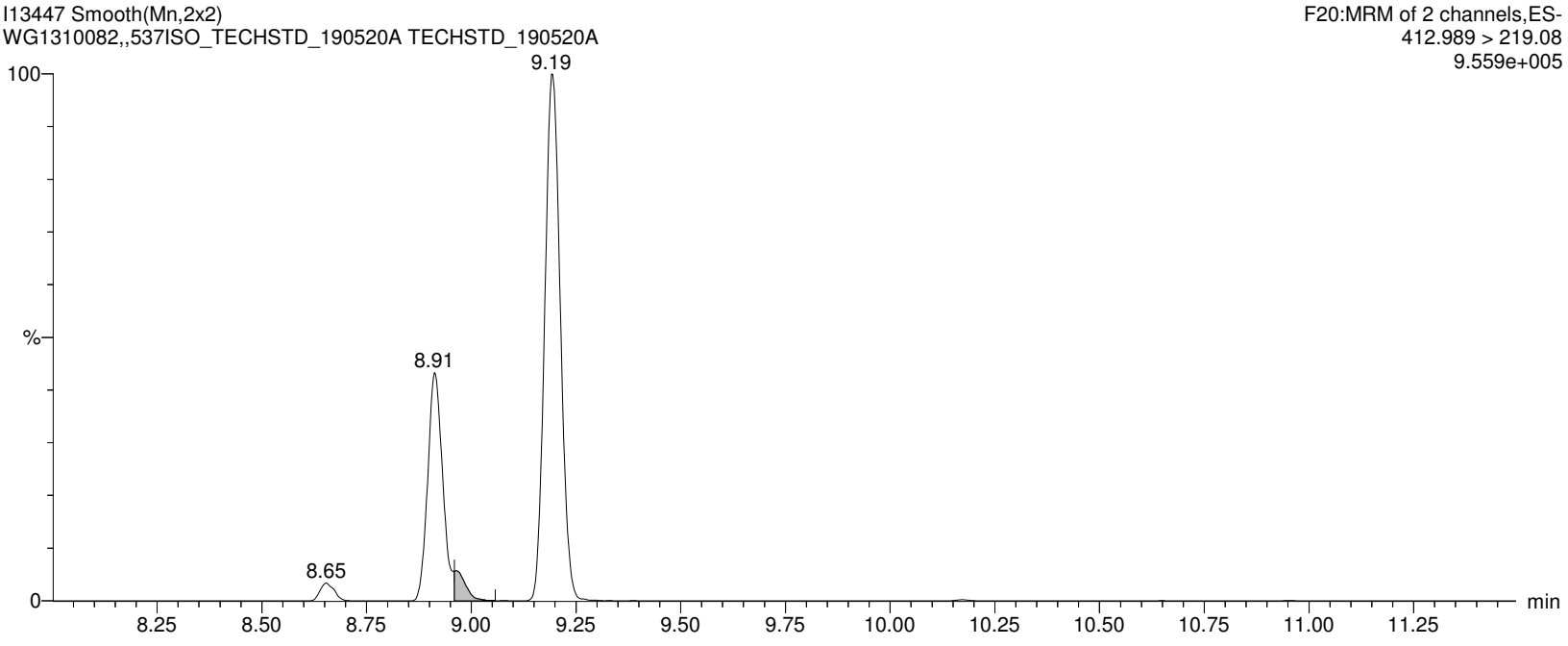

all concentration units in (ng/mL)

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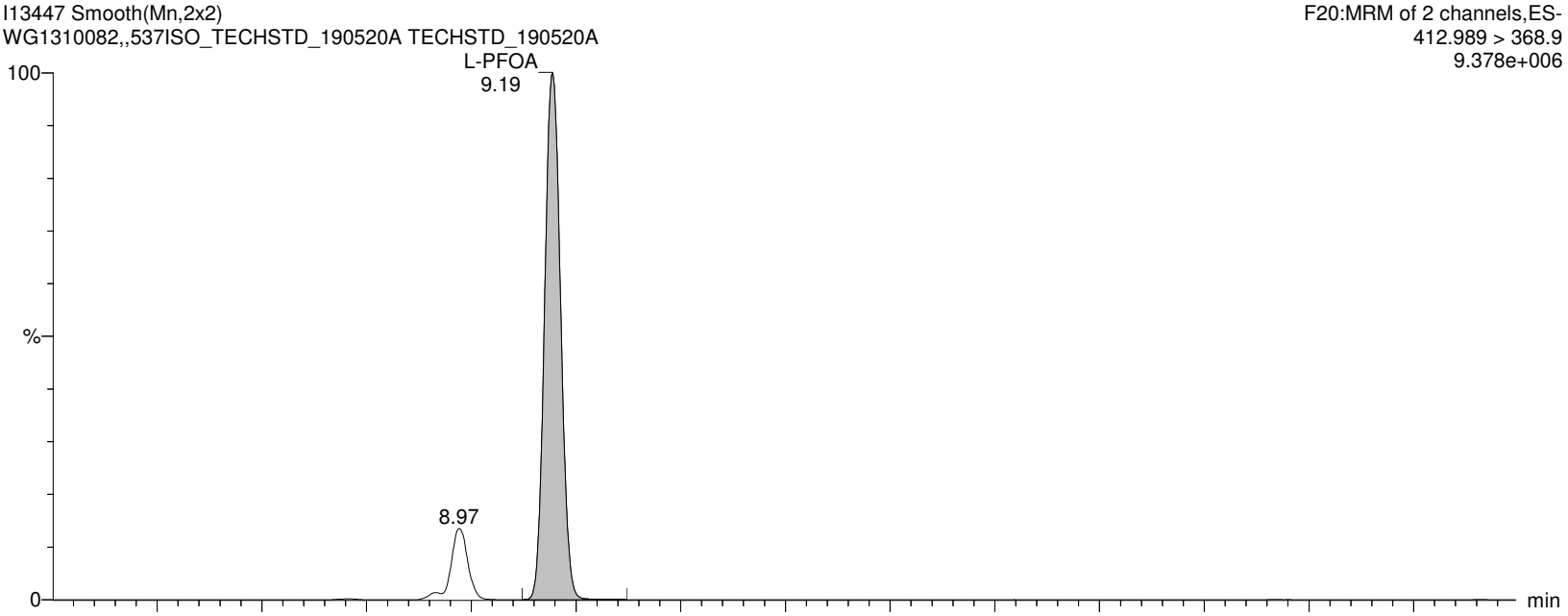

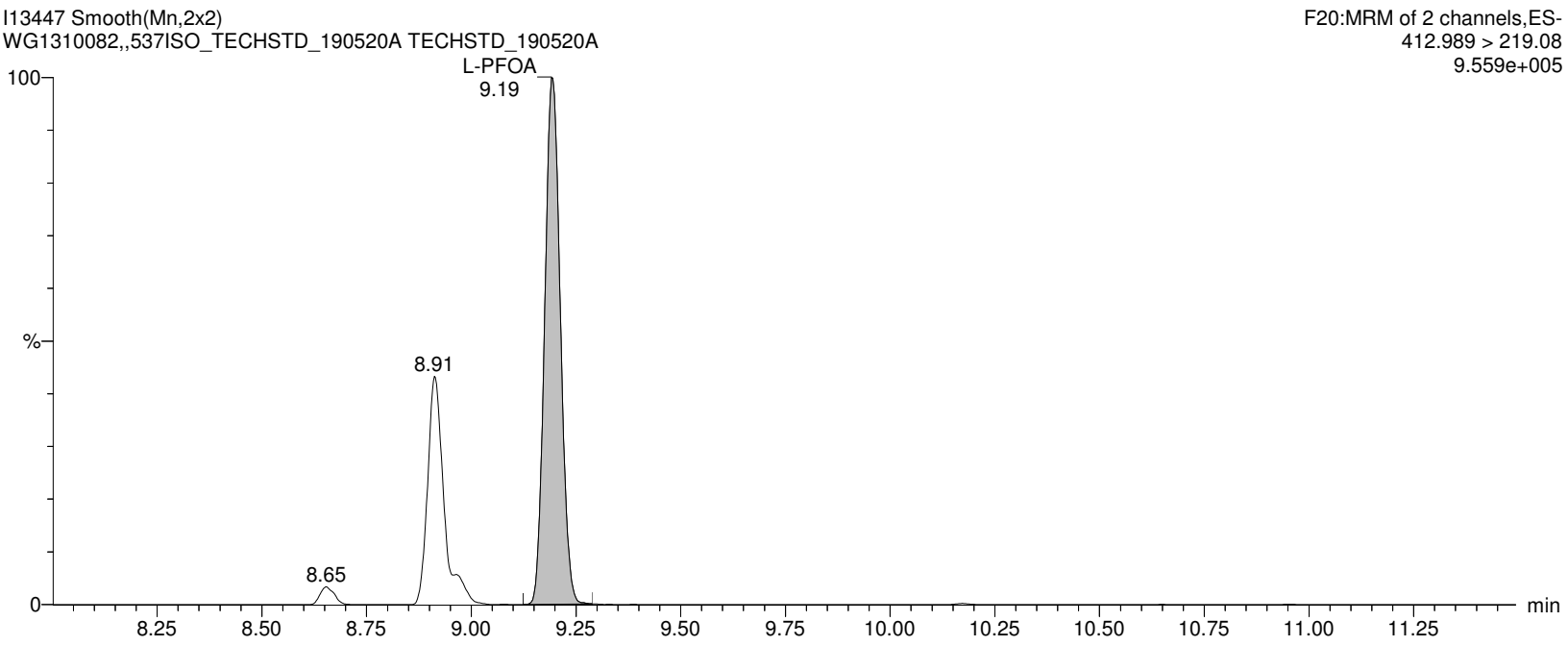

all concentration units in (ng/mL)

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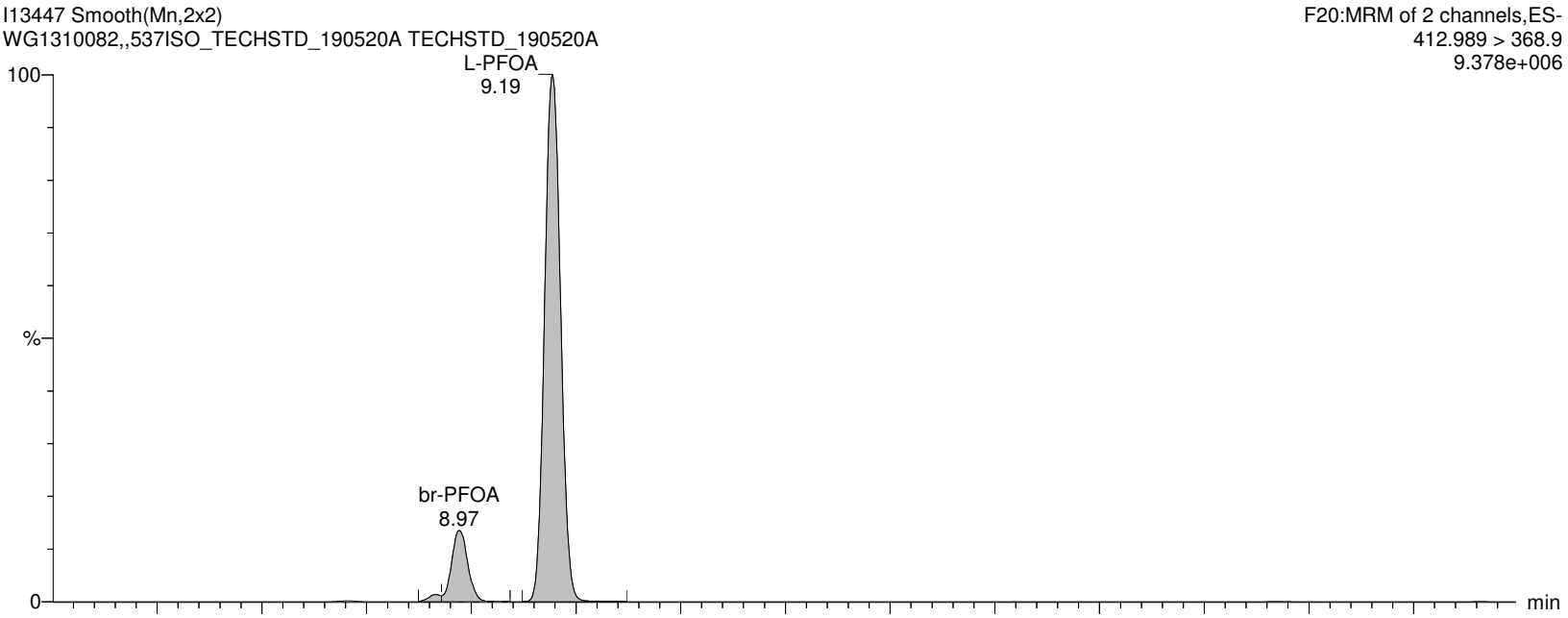

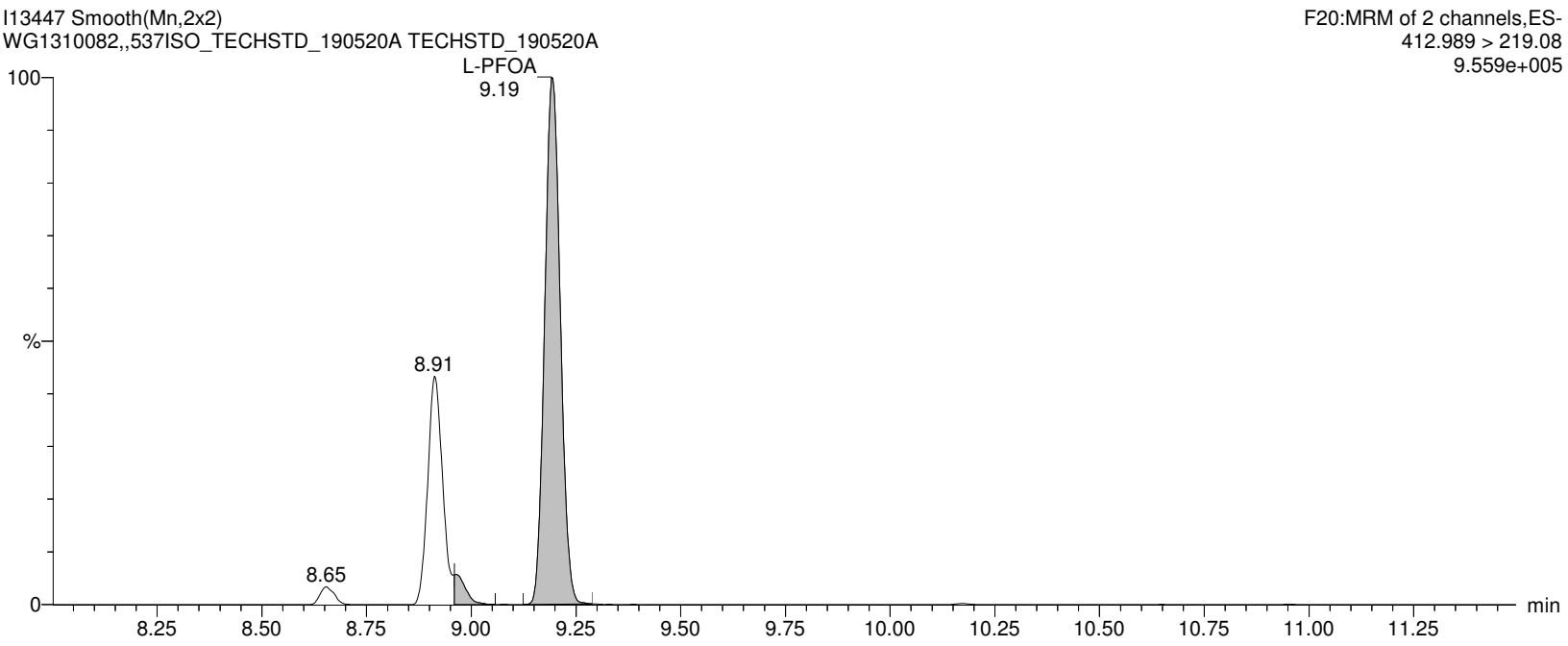

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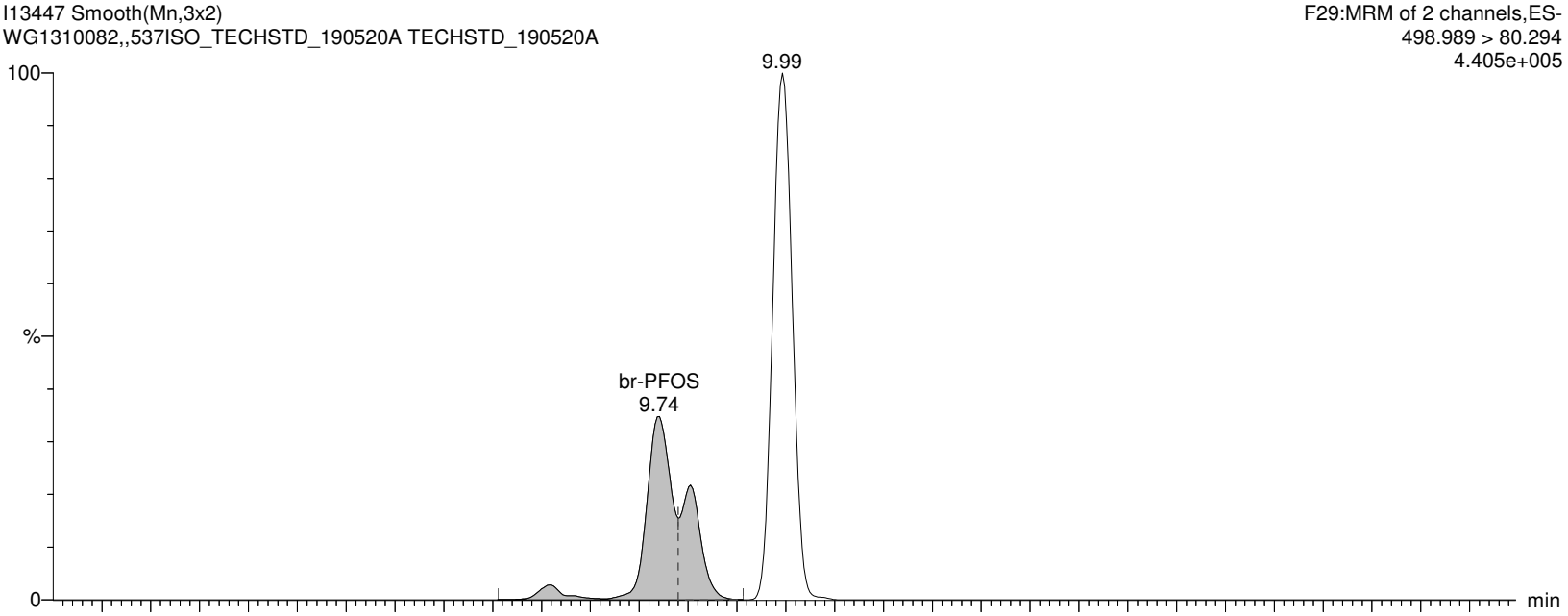
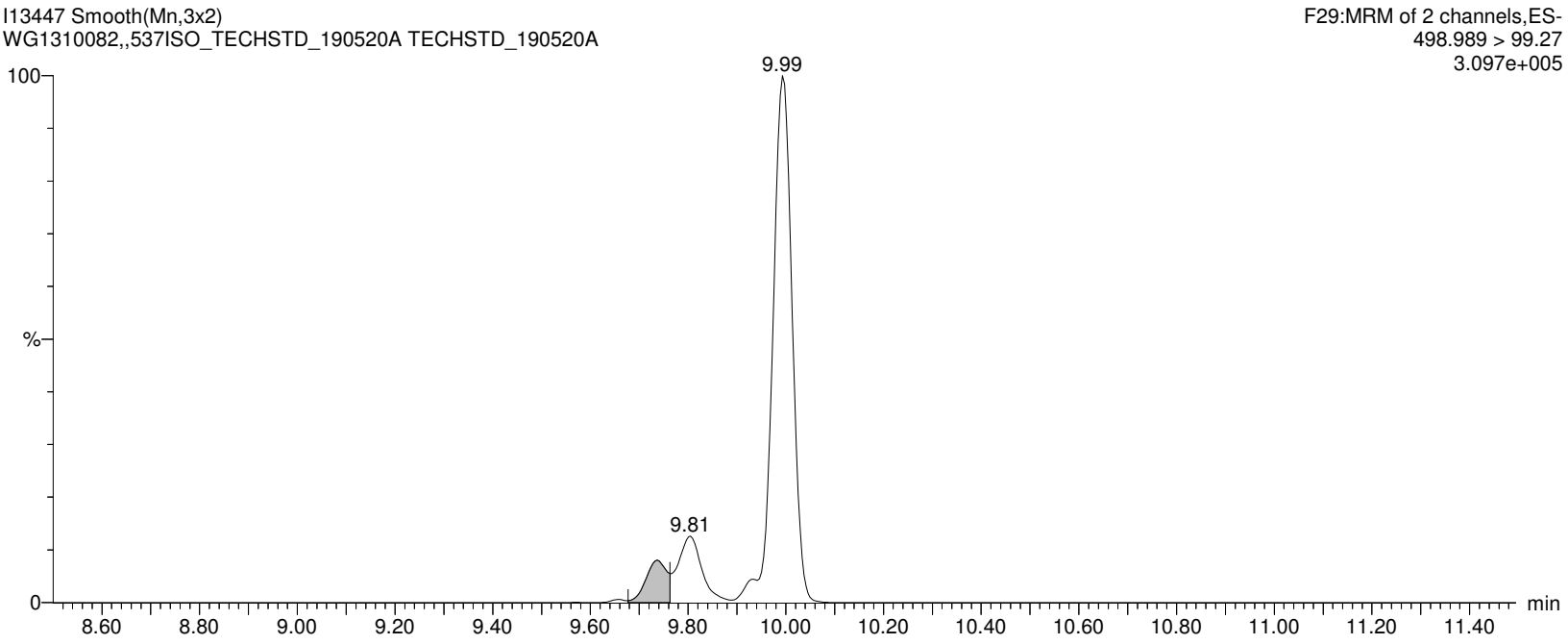
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

br-PFOS



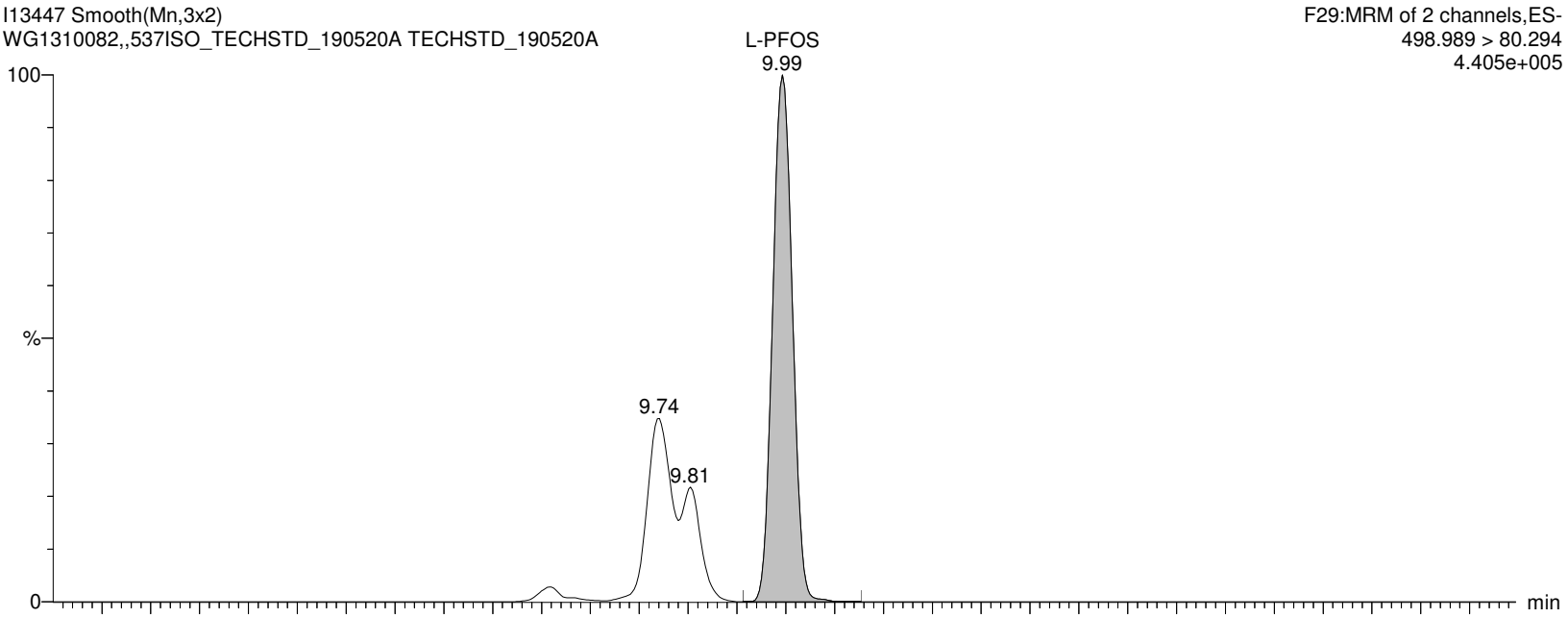


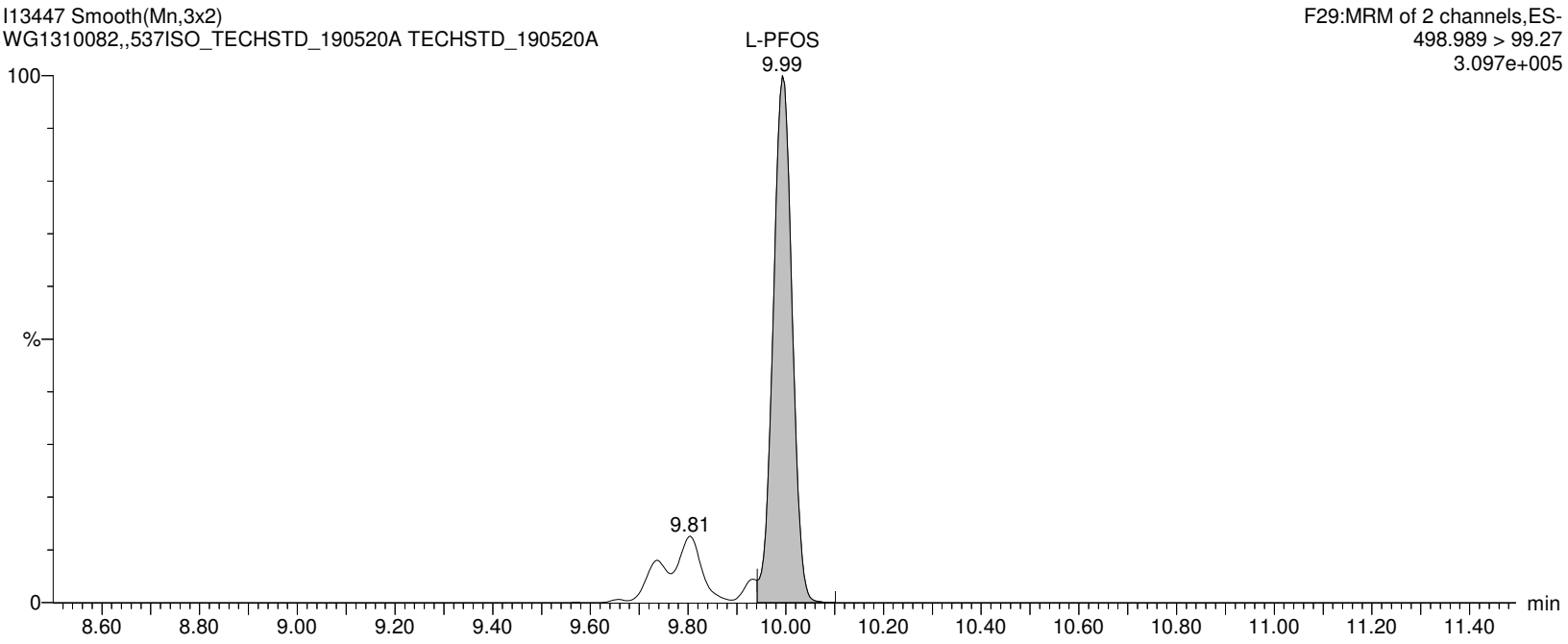
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
Printed: Monday, November 18, 2019 14:47:32 Eastern Standard Time

Name: I13447
ID: TECHSTD_190520A
Date: 18-Nov-2019
Time: 14:22:24
Description: WG1310082,,537ISO_TECHSTD_190520A
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

L-PFOS



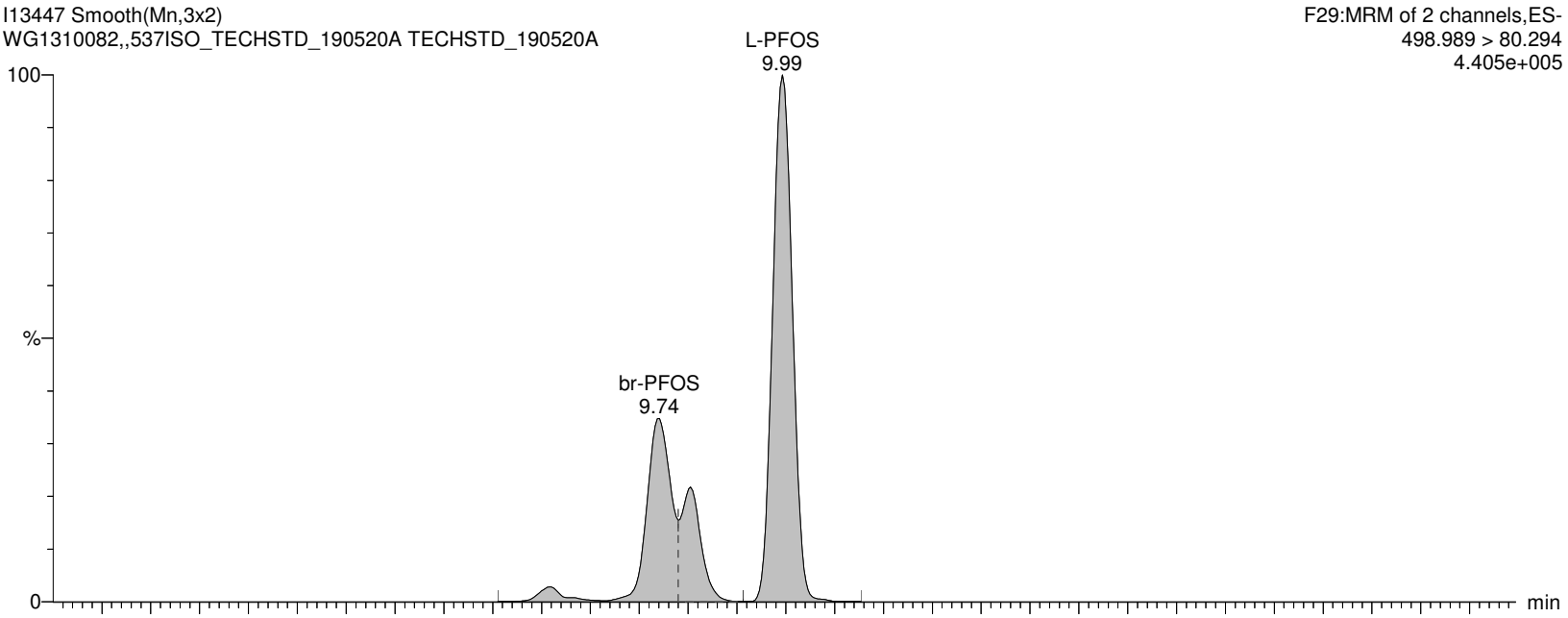


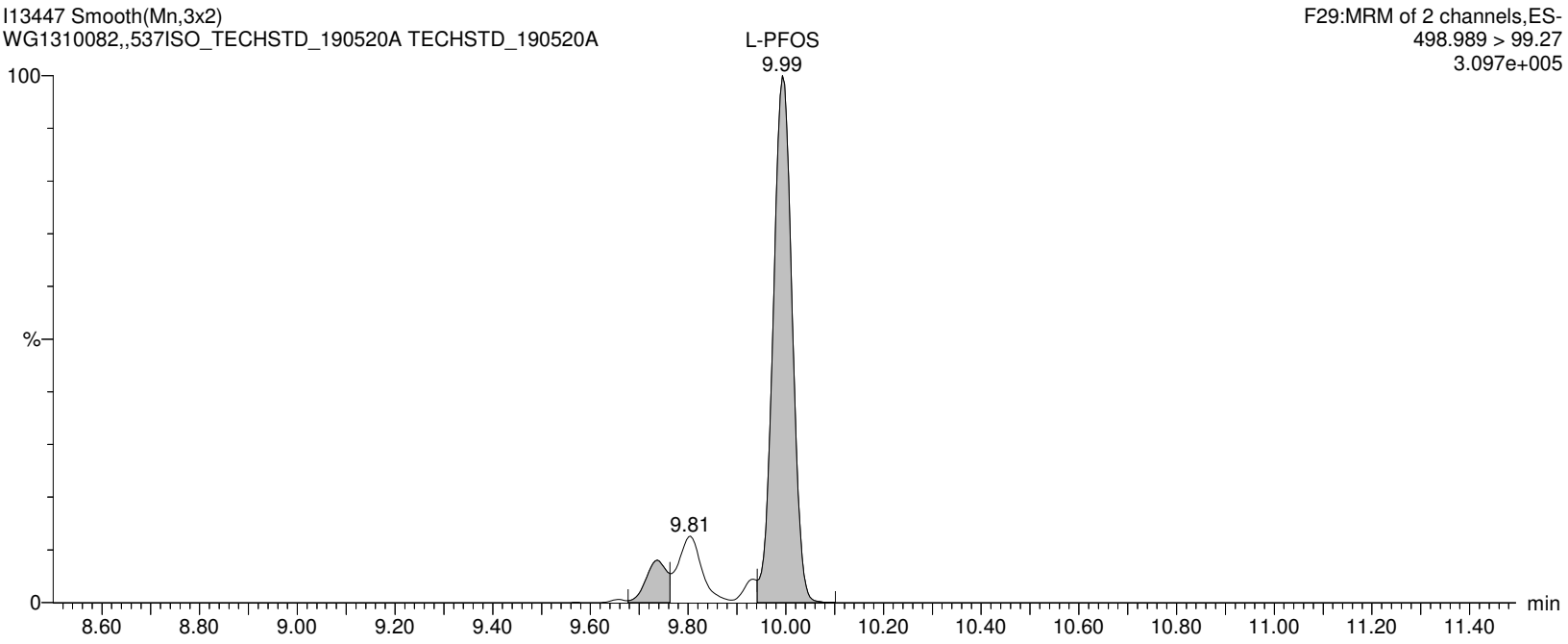
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
Printed: Monday, November 18, 2019 14:47:32 Eastern Standard Time

Name: I13447
ID: TECHSTD_190520A
Date: 18-Nov-2019
Time: 14:22:24
Description: WG1310082,,537ISO_TECHSTD_190520A
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
Printed: Monday, November 18, 2019 14:47:32 Eastern Standard Time

Name: I13447
ID: TECHSTD_190520A
Date: 18-Nov-2019
Time: 14:22:24
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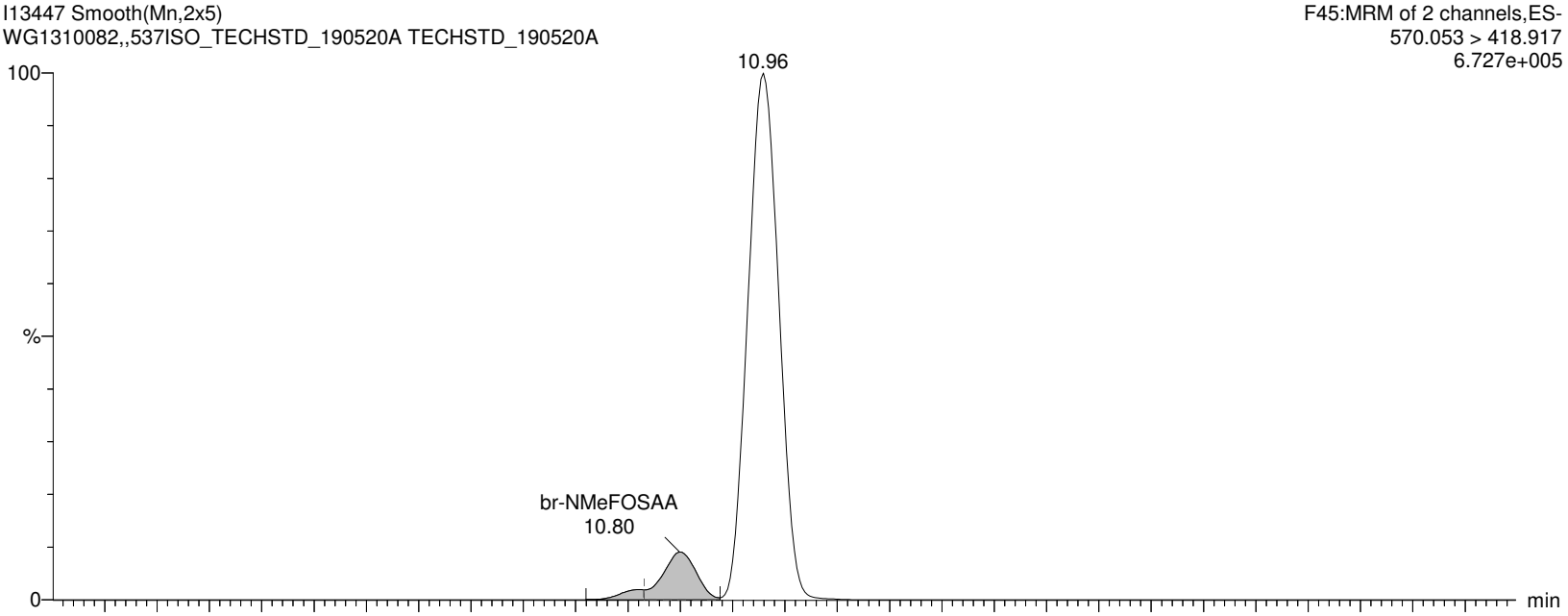
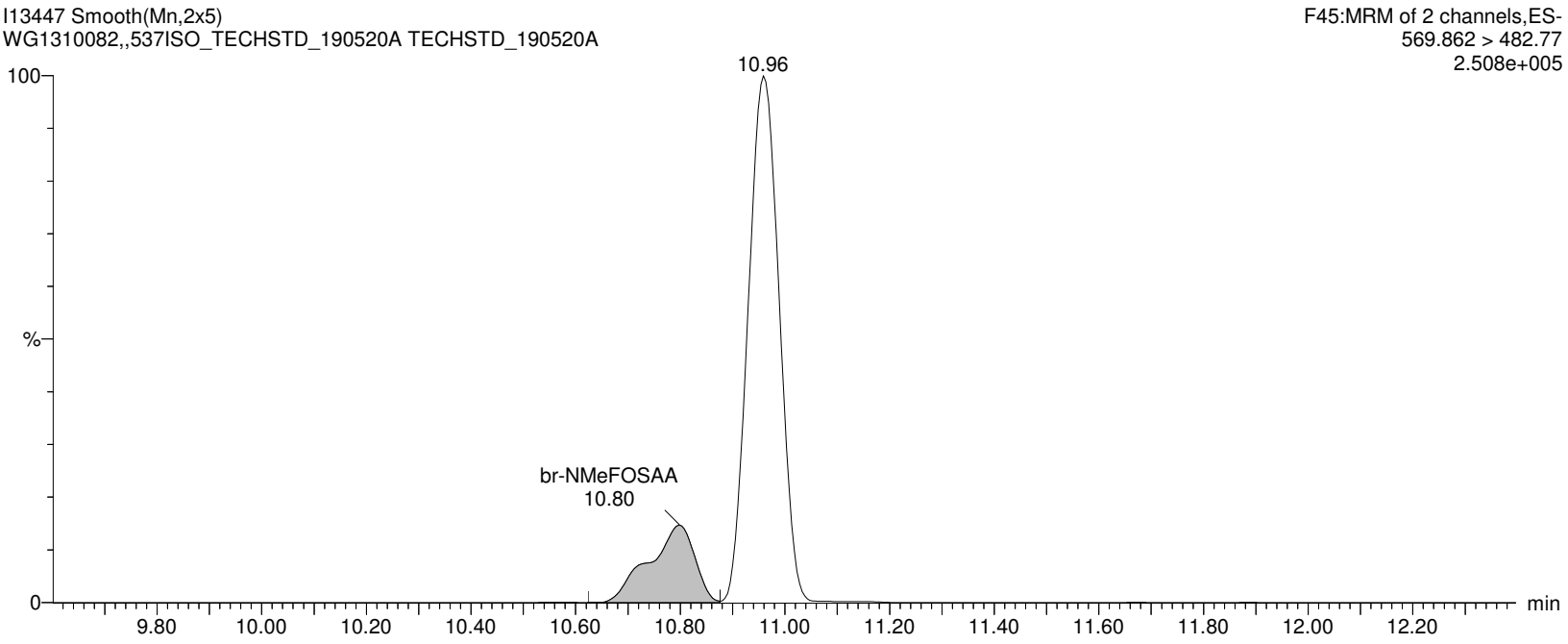
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

br-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
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Name: I13447
ID: TECHSTD_190520A
Date: 18-Nov-2019
Time: 14:22:24
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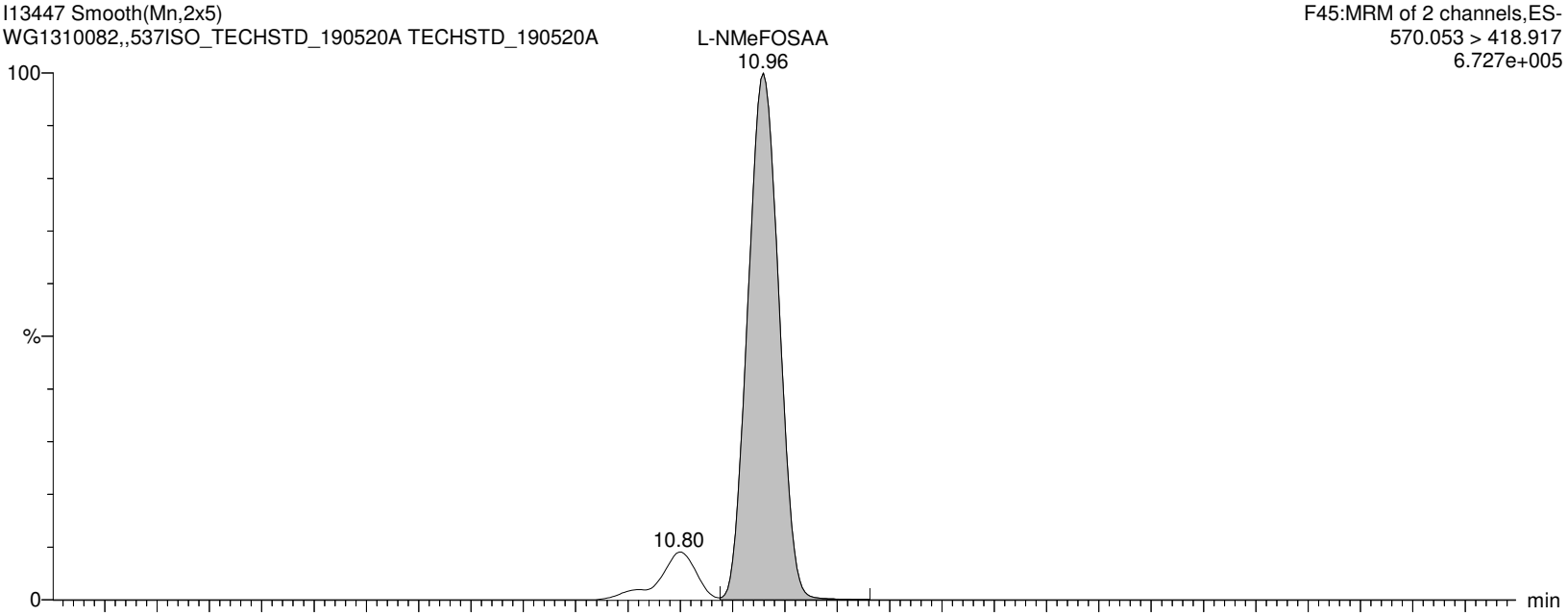
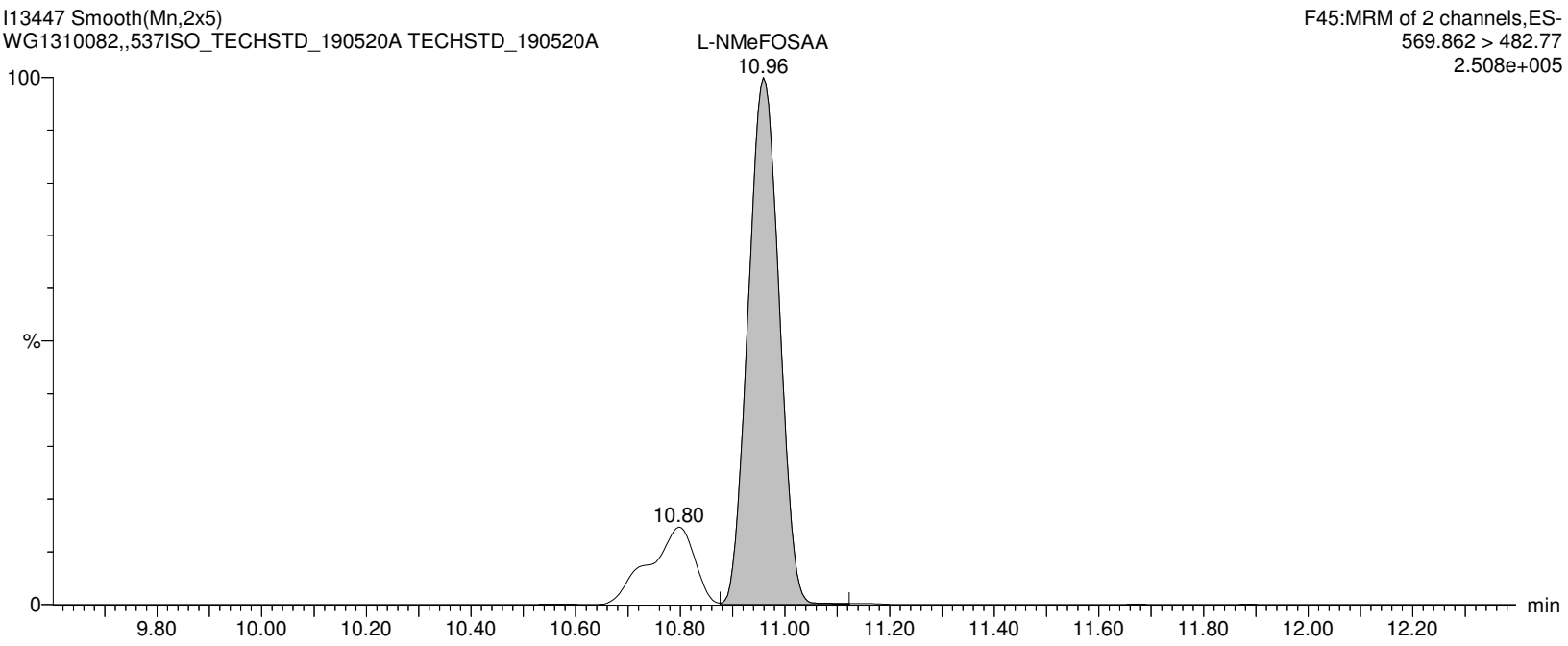
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

L-NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
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Name: I13447
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Time: 14:22:24
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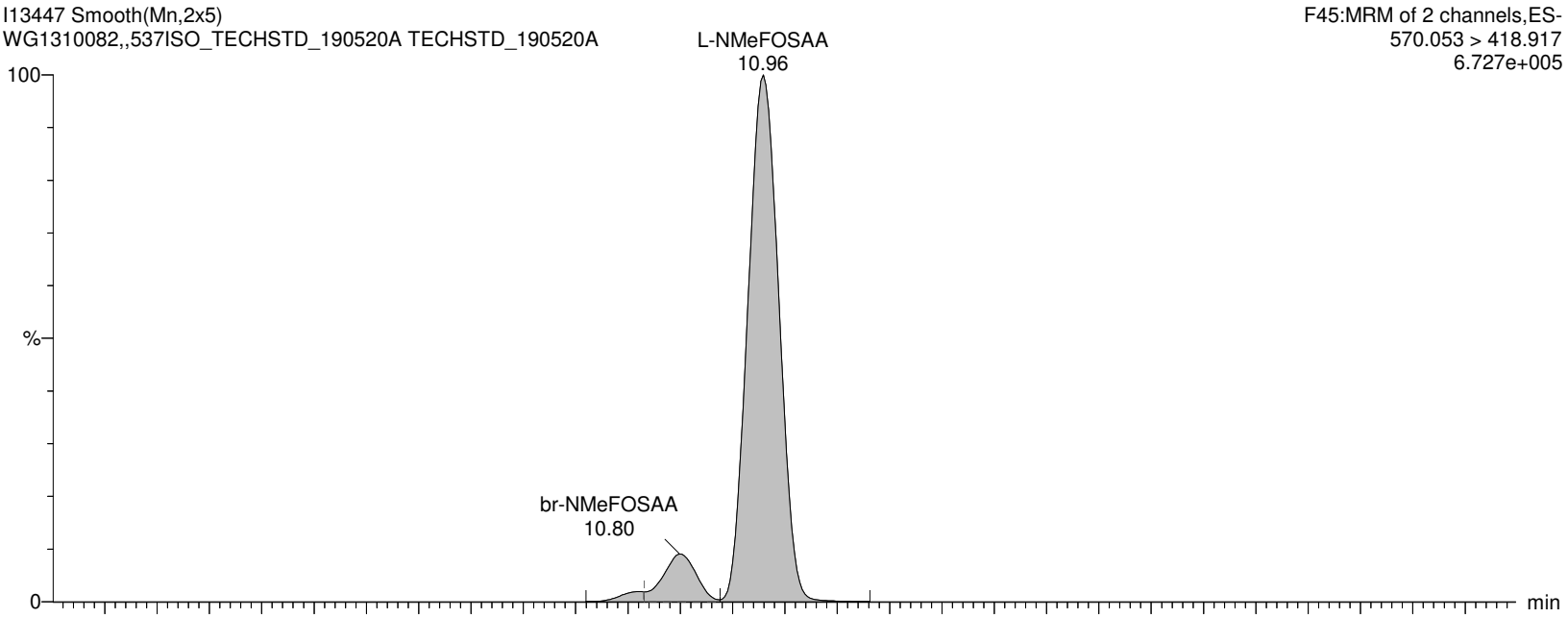
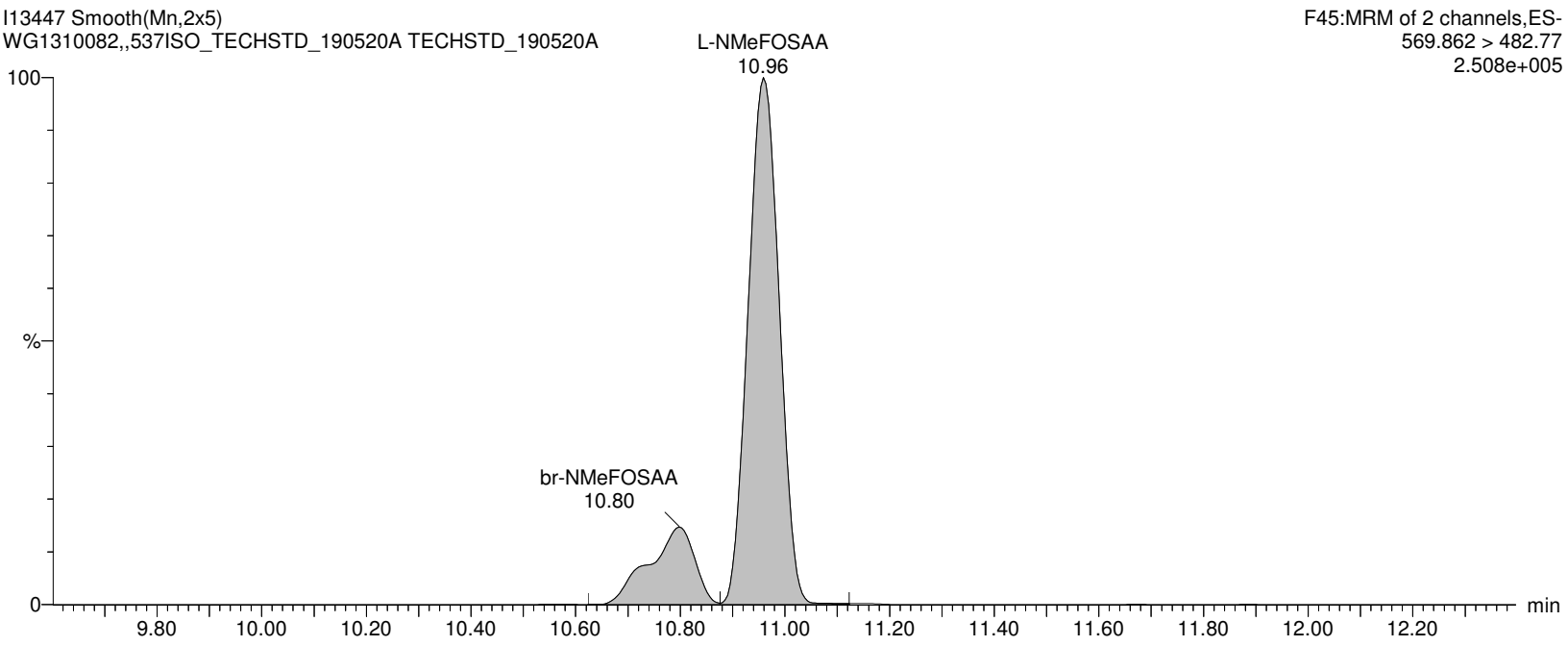
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NMeFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
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Name: I13447
ID: TECHSTD_190520A
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User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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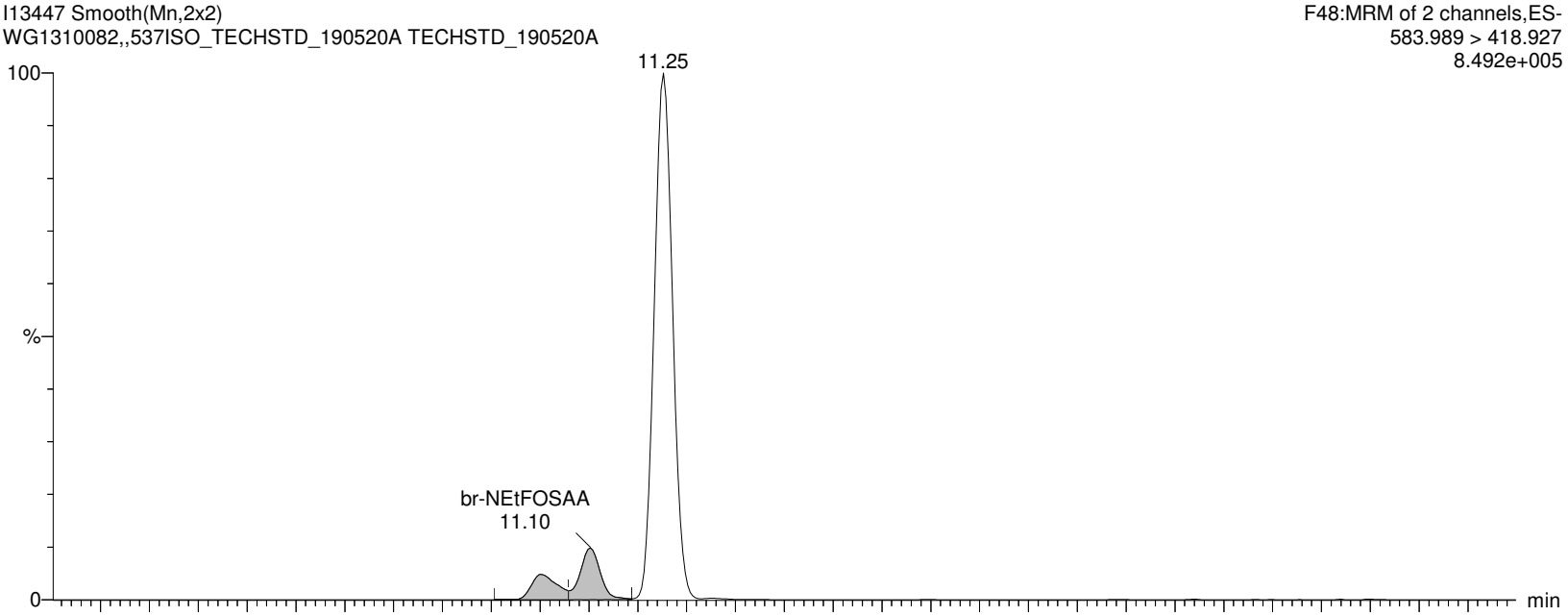

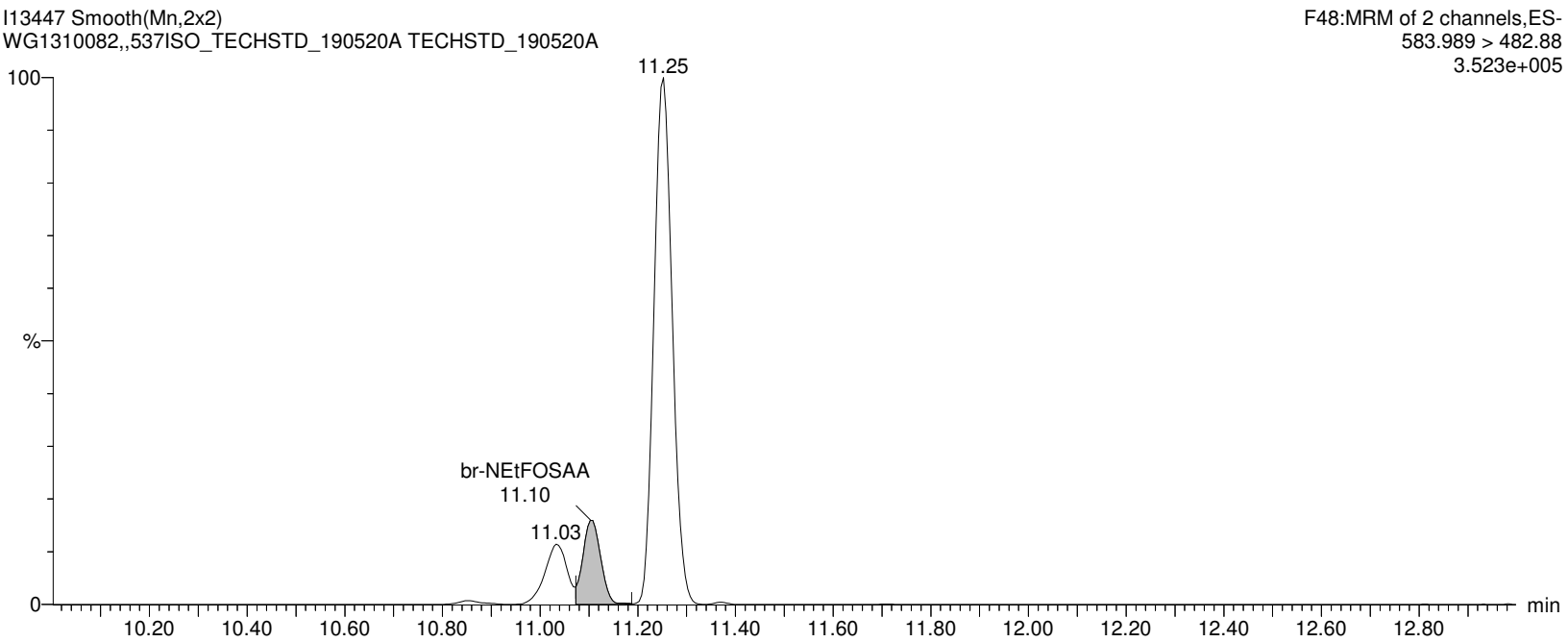

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
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Date: 18-Nov-2019
Time: 14:22:24
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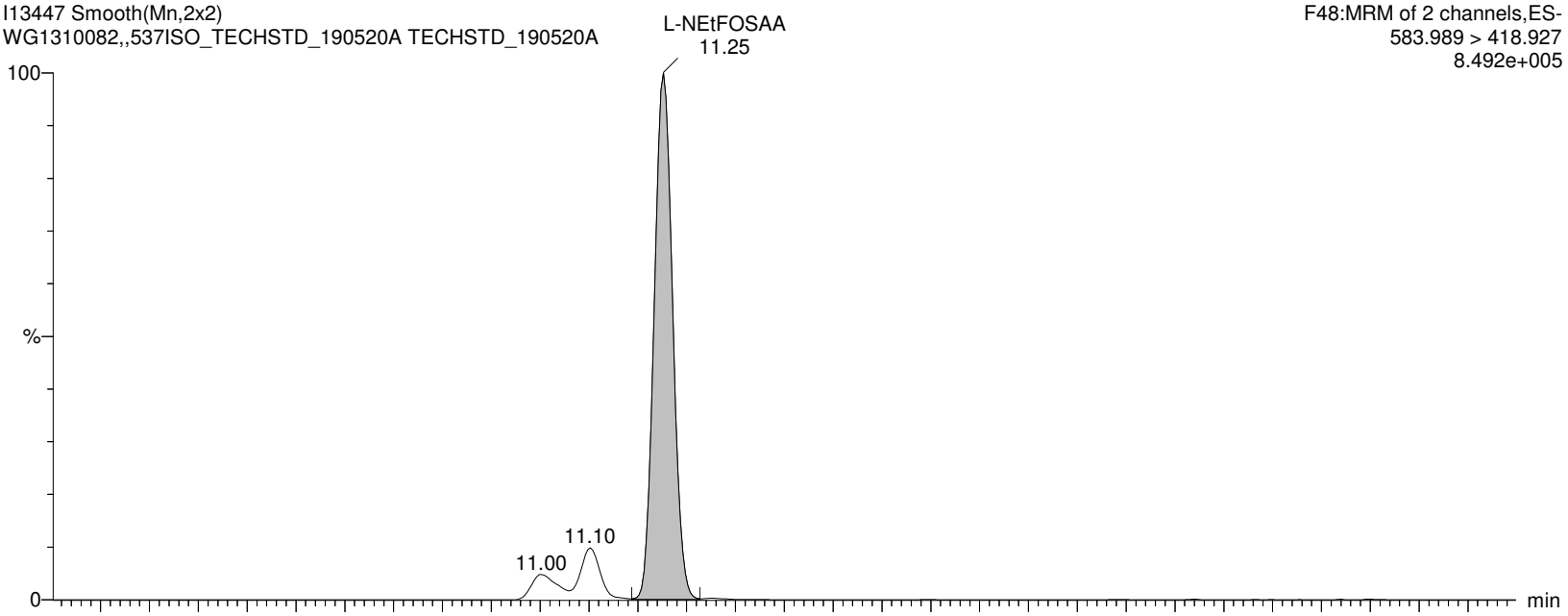
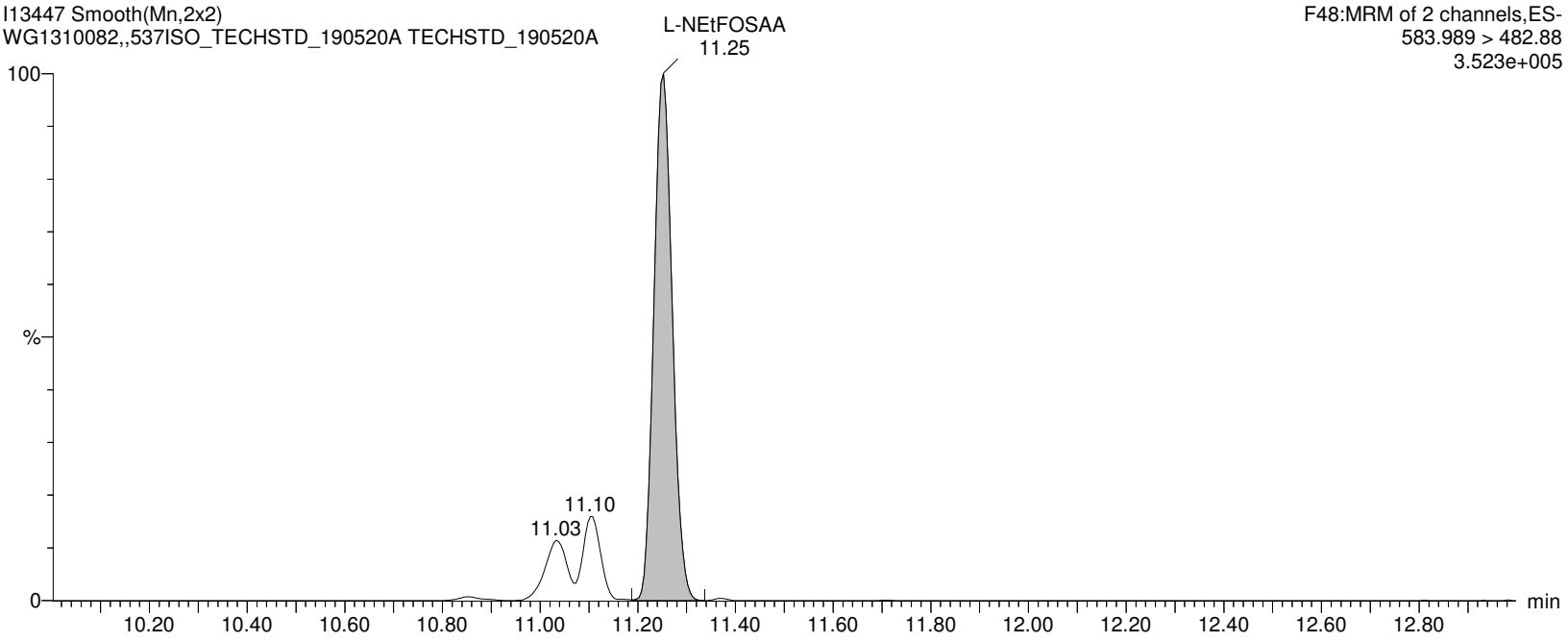
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

L-NEtFOSAA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\191118_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Monday, November 18, 2019 14:39:57 Eastern Standard Time
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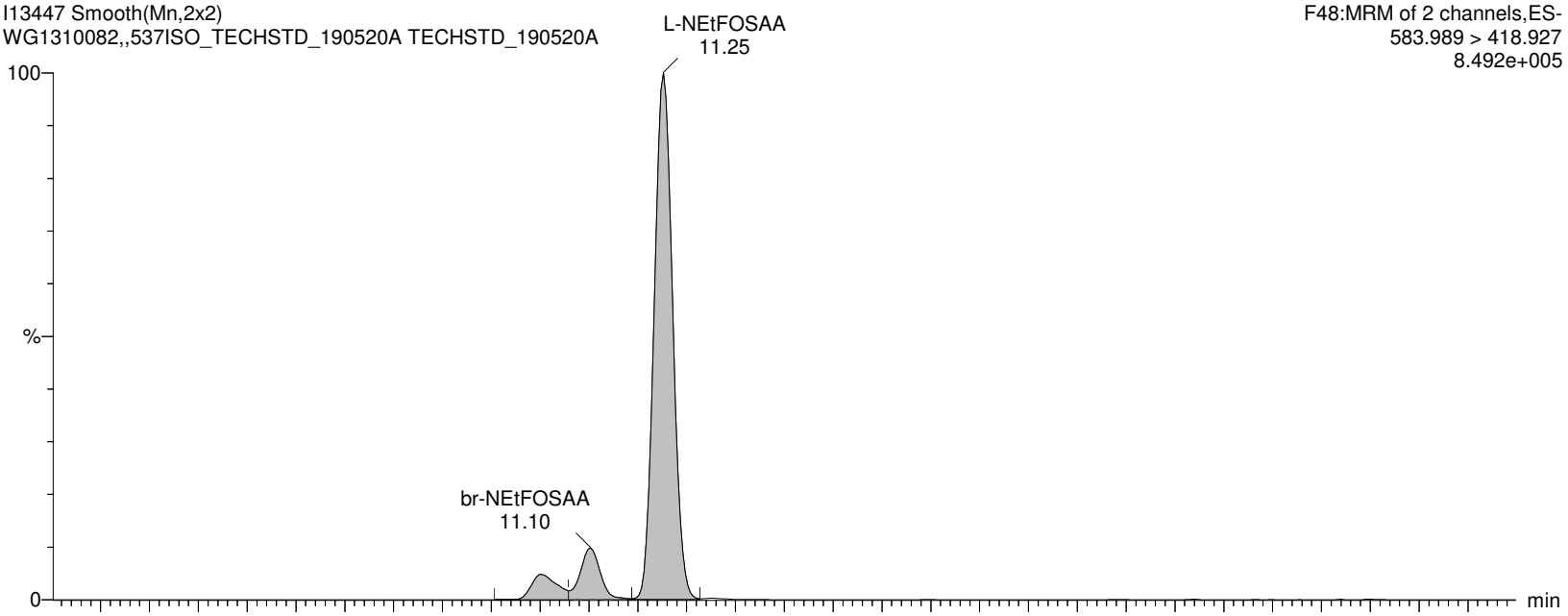
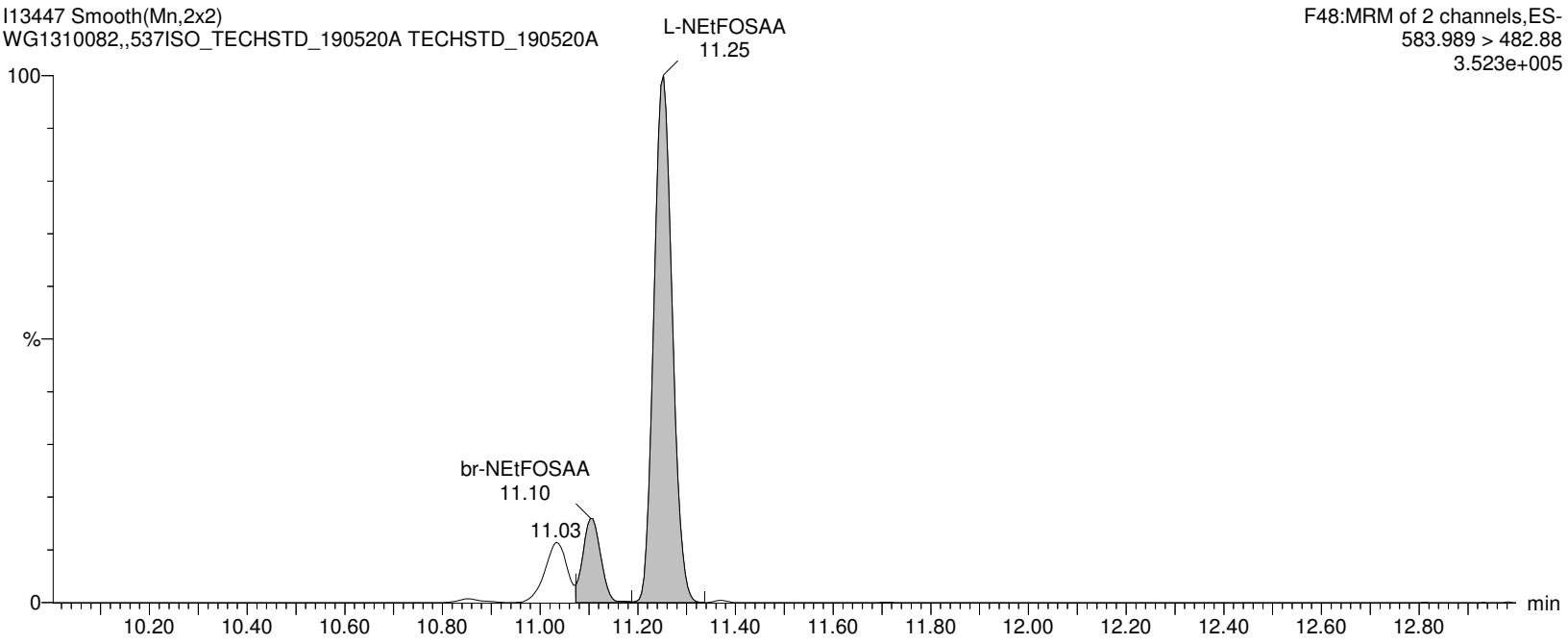
Name: I13447
ID: TECHSTD_190520A
Date: 18-Nov-2019
Time: 14:22:24
Description: WG1310082,,537ISO_TECHSTD_190520A
User: LCMS02:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\191118_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSAA





all concentration units in (ng/mL)

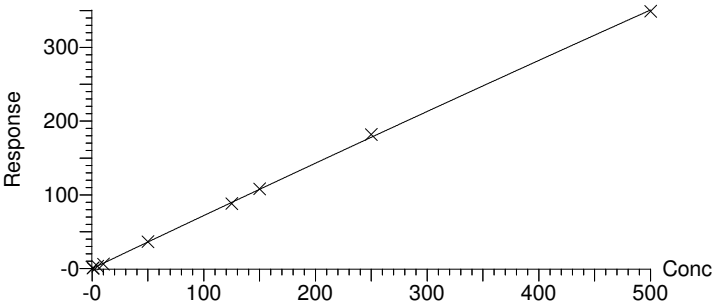
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Method: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\MethDB\537ISO_Q_200227 .mdb 27 Feb 2020 12:38:15
Calibration: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 09:12:40

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	2.253	48319.531	14811.046	4.236	84.7	0.613	7841		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	2.248	48815.305	30644.713	8.679	86.8	0.628	14887		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	2.242	45938.719	167812.766	50.630	101.3	0.731	47049		0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	2.237	44301.992	391222.625	122.941	98.4	0.706	73888		0.92
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	2.237	43835.754	473301.906	150.573	100.4	0.720	94877		0.88
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	2.231	42043.367	765723.938	255.646	102.3	0.729	148464		0.85
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	2.237	41222.156	1438832.625	497.417	99.5	0.698	91452		0.70
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	2.242	45001.730	1544.153	0.474	94.8	0.686	670		0.88
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	2.243	45026.121	2940.648	0.902	90.2	0.653	1666		0.89

Compound name: PFBA
Coefficient of Determination: R^2 = 0.999537
Calibration curve: -4.42845e-005 * x^2 + 0.723741 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



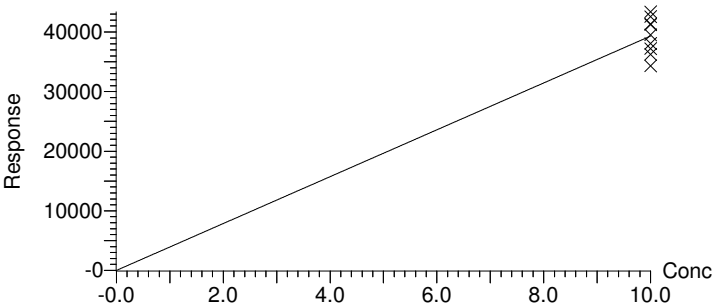
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	2.250		41335.754	10.512	105.1	4133.575	7214		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	2.244		41232.234	10.486	104.9	4123.223	3676		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	2.244		39499.469	10.045	100.5	3949.947	6575		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	2.239		38059.477	9.679	96.8	3805.948	18435		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	2.239		37209.055	9.463	94.6	3720.905	13815		0.84
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	2.239		36271.582	9.224	92.2	3627.158	10472		0.79
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	2.250		34339.520	8.733	87.3	3433.952	2929		0.63
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	2.244		42560.504	10.824	108.2	4256.050	26624		0.87
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	2.244		43387.879	11.034	110.3	4338.788	34328		0.85

Compound name: M3PFBA
Response Factor: 3932.17
RRF SD: 306.071, % Relative SD: 7.78377
Response type: External Std, Area
Curve type: RF



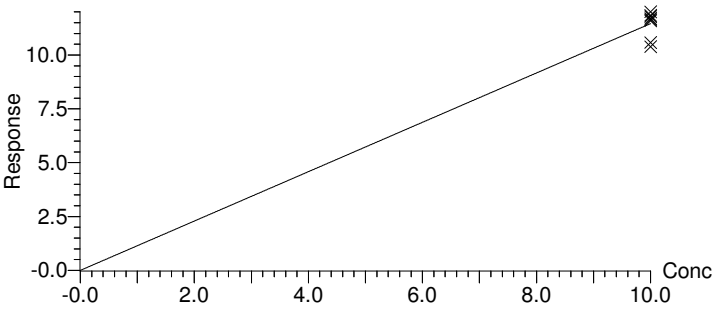
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	2.252	41335.754	48319.531	10.202	102.0	1.169	23733		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	2.246	41232.234	48815.305	10.332	103.3	1.184	148389		0.97
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	2.241	39499.469	45938.719	10.150	101.5	1.163	15967		0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	2.241	38059.477	44301.992	10.159	101.6	1.164	56598		0.87
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	2.241	37209.055	43835.754	10.281	102.8	1.178	30312		0.83
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	2.235	36271.582	42043.367	10.116	101.2	1.159	16177		0.80
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	2.246	34339.520	41222.156	10.476	104.8	1.200	24887		0.63
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	2.241	42560.504	45001.730	9.228	92.3	1.057	45632		0.88
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	2.241	43387.879	45026.121	9.057	90.6	1.038	65718		0.87

Compound name: MPFBA
Response Factor: 1.14585
RRF SD: 0.0573549, % Relative SD: 5.00544
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



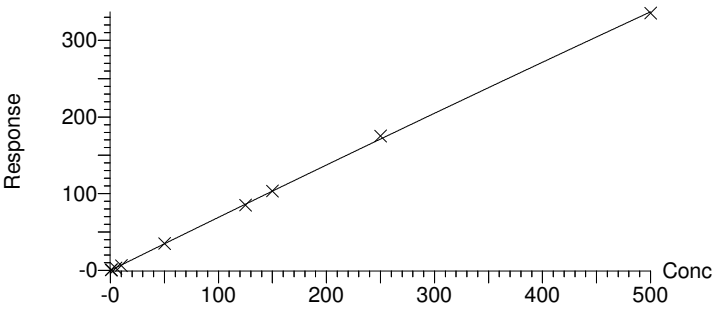
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.214	66965.297	19873.592	4.267	85.3	0.594	5136		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.209	66535.883	40988.703	8.861	88.6	0.616	11094		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.207	61818.520	216821.125	50.578	101.2	0.701	59009		0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.206	58331.801	496161.094	123.213	98.6	0.680	107836		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.207	57217.777	591135.188	149.905	99.9	0.689	135936		0.80
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.207	53491.770	936502.688	255.715	102.3	0.700	95057		0.75
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.207	50735.574	1701958.750	497.520	99.5	0.671	185285		0.59
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.204	61408.227	2211.104	0.518	103.5	0.720	485		0.90
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.209	61539.512	3950.195	0.923	92.3	0.642	1262		0.81

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.999602
Calibration curve: -4.29631e-005 * x^2 + 0.695633 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



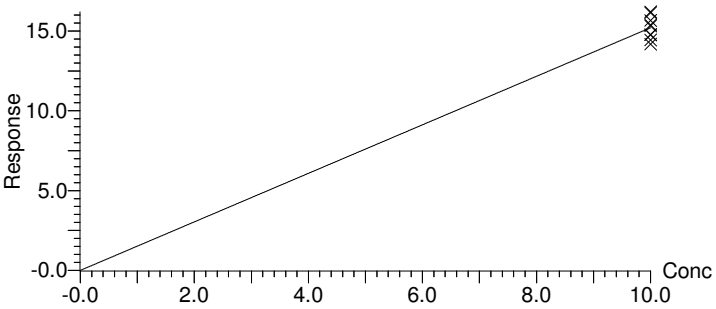
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.212	41335.754	66965.297	10.656	106.6	1.620	11354		0.99
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.208	41232.234	66535.883	10.614	106.1	1.614	11899		0.97
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.205	39499.469	61818.520	10.294	102.9	1.565	11409		0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.205	38059.477	58331.801	10.081	100.8	1.533	796		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.206	37209.055	57217.777	10.115	101.1	1.538	13622		0.80
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.206	36271.582	53491.770	9.701	97.0	1.475	5666		0.74
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.205	34339.520	50735.574	9.718	97.2	1.477	7455		0.61
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.205	42560.504	61408.227	9.491	94.9	1.443	6947		0.85
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.206	43387.879	61539.512	9.330	93.3	1.418	15985		0.84

Compound name: M5PFPEA
Response Factor: 1.52029
RRF SD: 0.0719607, % Relative SD: 4.73336
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



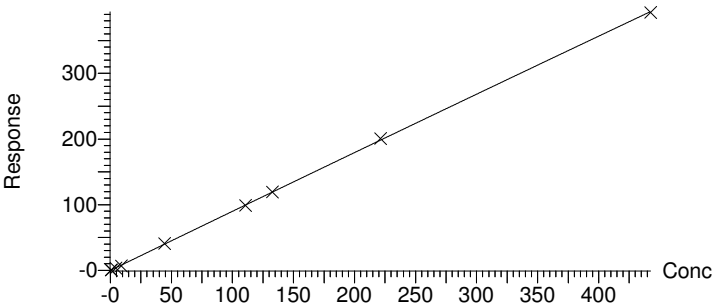
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.879	11904.475	3950.326	3.678	83.1	0.750	32	896	0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.872	11938.699	8430.388	7.828	88.5	0.798	4212	2319	0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.871	10926.120	44614.742	45.316	102.4	0.923	45541	6184	0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.870	10327.150	102270.000	110.111	99.5	0.895	19205	10965	0.86
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.872	10162.224	121367.359	132.882	100.1	0.900	23094	13425	0.77
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.872	9545.156	191488.766	223.808	101.2	0.907	10197	18037	0.72
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.871	8726.213	342903.594	441.215	99.7	0.888	58178	26974	0.56
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.866	10848.066	376.407	0.385	86.9	0.784	114	43	1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.874	11021.960	750.290	0.754	85.3	0.769	108	125	0.76

Compound name: PFBS
Coefficient of Determination: R^2 = 0.999644
Calibration curve: -2.63872e-005 * x^2 + 0.902271 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



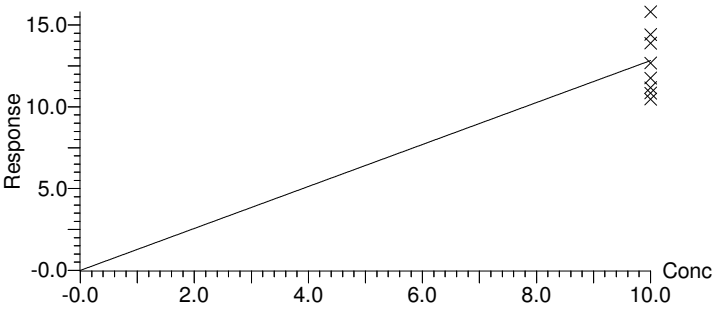
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	5.875	9391.129	11904.475	9.881	98.8	1.268	3549		1.01
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	5.872	10693.415	11938.699	8.703	87.0	1.116	2354		0.96
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	5.870	7867.362	10926.120	10.826	108.3	1.389	4067		0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	5.870	8781.861	10327.150	9.167	91.7	1.176	622		0.83
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	5.872	7044.307	10162.224	11.245	112.5	1.443	3115		0.75
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	5.872	6617.794	9545.156	11.243	112.4	1.442	1820		0.70
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	5.870	5519.950	8726.213	12.323	123.2	1.581	533		0.57
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	5.868	10009.636	10848.066	8.448	84.5	1.084	1523		0.84
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	5.870	10521.385	11021.960	8.166	81.7	1.048	6602		0.82

Compound name: M3PFBS
Response Factor: 1.28289
RRF SD: 0.188854, % Relative SD: 14.721
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



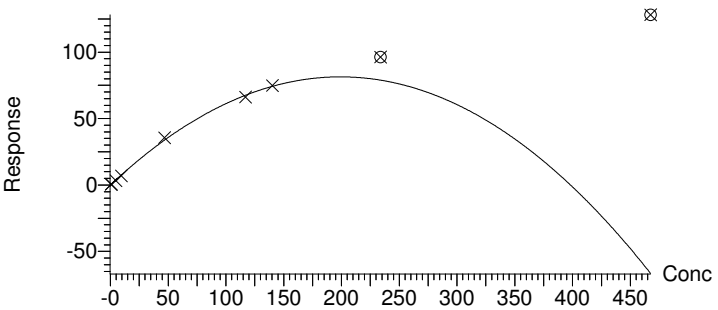
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.054	5134.135	1758.998	4.234	90.6	0.733	115	97	0.99
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.047	5498.780	3755.704	8.534	91.3	0.730	76365	410	1.16
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.047	5880.164	20977.158	49.864	106.7	0.763	36776	372	1.04
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.047	7283.949	48273.207	113.234	96.9	0.567	4792	5865	0.96
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.047	7855.275	58728.438	142.184	101.4	0.533	10048	2917	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.044	9988.708	96127.430			0.412	12322	15570	0.93
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.036	13942.268	178618.781			0.274	36539	11504	0.86
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.047	4735.668	182.277	0.471	100.8	0.823	14	9	1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.047	4760.724	294.253	0.757	81.0	0.661	25	187	1.13

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.998242
Calibration curve: -0.0020539 * x^2 + 0.817851 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



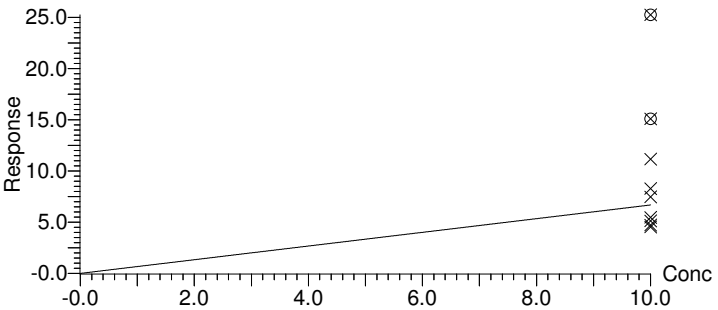
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.054	9391.129	5134.135	8.180	81.8	0.547	2385		1.08
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.049	10693.415	5498.780	7.694	76.9	0.514	1125		0.97
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.050	7867.362	5880.164	11.183	111.8	0.747	117849		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.045	8781.861	7283.949	12.410	124.1	0.829	2128		0.99
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.049	7044.307	7855.275	16.685	166.8	1.115	589		0.92
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.044	6617.794	9988.708	22.583	225.8	1.509	25		0.92
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.039	5519.950	13942.268	37.791	377.9	2.526	3356		0.82
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.043	10009.636	4735.668	7.079	70.8	0.473	1947		1.09
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.044	10521.385	4760.724	6.770	67.7	0.452	89921		1.03

Compound name: M2-4:2FTS
Response Factor: 0.668354
RRF SD: 0.243268, % Relative SD: 36.3981
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



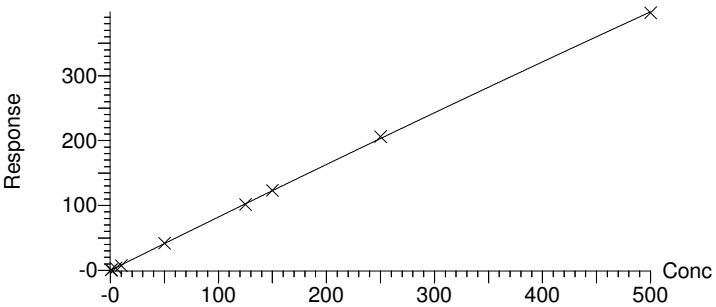
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.135	76999.281	27586.533	4.323	86.5	0.717	919	55	1.04
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.127	78150.375	57574.105	8.893	88.9	0.737	2491	274	1.05
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.128	71174.070	298865.250	50.854	101.7	0.840	9760	1002	1.07
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.126	65382.211	663067.563	123.517	98.8	0.811	17489	2422	1.04
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.129	63412.773	781257.250	150.369	100.2	0.821	21067	1471	0.96
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.125	59290.266	1222655.750	253.744	101.5	0.825	39226	4847	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.117	53405.371	2120807.250	498.267	99.7	0.794	44683	9874	0.92
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.126	72987.602	3317.243	0.548	109.7	0.909	185		1.00
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.125	73498.398	5980.390	0.982	98.2	0.814	343	37	1.04

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.999697
Calibration curve: -6.42018e-005 * x^2 + 0.828982 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



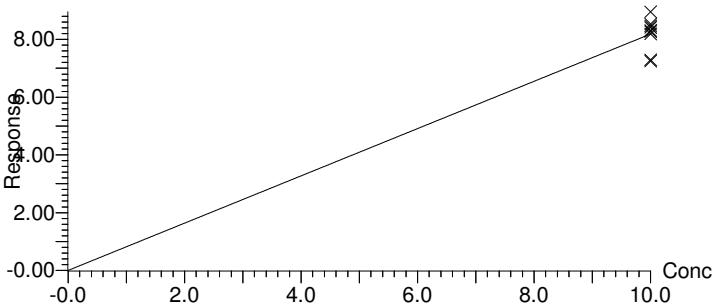
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.135	93068.188	76999.281	10.105	101.1	0.827	24396		1.00
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.127	95398.117	78150.375	10.006	100.1	0.819	8457		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.128	84037.695	71174.070	10.345	103.4	0.847	14066		1.00
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.126	78699.977	65382.211	10.147	101.5	0.831	7348		1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.127	75403.938	63412.773	10.272	102.7	0.841	1441		0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.123	69458.313	59290.266	10.426	104.3	0.854	4428		1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.117	59631.082	53405.371	10.939	109.4	0.896	2816		0.92
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.126	100127.297	72987.602	8.904	89.0	0.729	17513		0.99
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.125	101367.383	73498.398	8.856	88.6	0.725	17149		0.96

Compound name: M5PFHxA
Response Factor: 0.818717
RRF SD: 0.0564222, % Relative SD: 6.89154
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



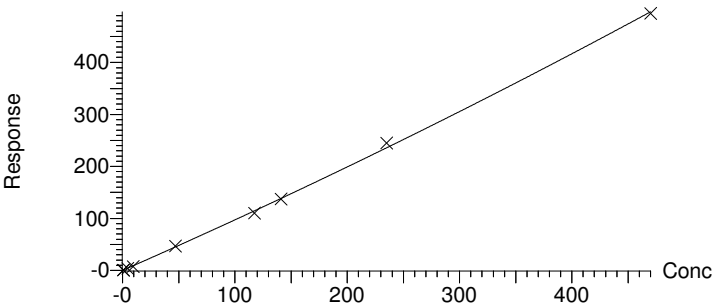
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	7.451	11194.032	4435.511	4.172	88.8	0.843	95754	872	1.01
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	7.441	12271.508	9210.342	7.896	84.0	0.798	3106	151	1.00
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	7.439	10437.030	48996.762	48.892	104.0	0.999	8232	457748	1.08
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	7.437	9613.386	106015.398	113.087	96.2	0.939	28573	5943	1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	7.436	9204.258	126270.188	139.785	99.1	0.973	30887	18302	1.06
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	7.430	7778.292	190569.000	243.620	103.7	1.043	22300	49239	1.13
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	7.415	6310.149	311894.594	467.221	99.4	1.052	37974	12514	1.16
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	7.442	9377.617	449.997	0.506	107.6	1.021	5	3559	1.19
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	7.434	10742.247	768.857	0.754	80.2	0.761	33	30	1.16

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.999109
Calibration curve: 0.000233612 * x^2 + 0.948755 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



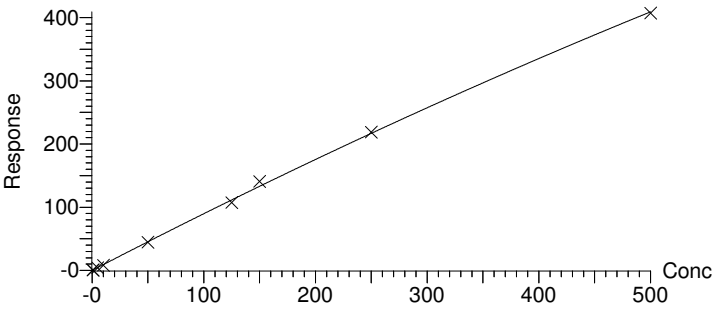
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.409	90960.586	34572.805	4.147	82.9	0.760	362	225	0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.399	91953.430	73250.313	8.699	87.0	0.797	764	294631	1.02
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.405	84239.859	374813.000	49.015	98.0	0.890	5586	643	0.94
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.398	74685.898	801285.875	120.050	96.0	0.858	9545	1798	1.05
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.403	69870.023	983604.688	158.889	105.9	0.939	12436	14428	1.03
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.399	67410.773	1473721.125	251.986	100.8	0.874	14020	40878	1.01
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.394	59526.586	2424789.250	497.361	99.5	0.815	23041	4179	1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.398	88785.359	4136.330	0.508	101.6	0.932	52	19371	1.09
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.392	88560.258	6461.678	0.795	79.5	0.730	108	5	0.97

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.998889
Calibration curve: -0.000197922 * x^2 + 0.917453 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



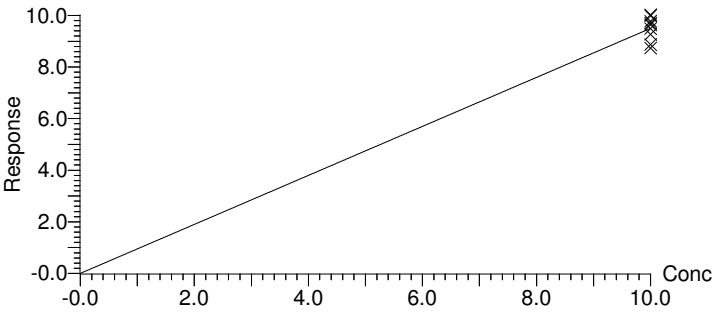
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.405	93068.188	90960.586	10.290	102.9	0.977	23378		1.02
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.399	95398.117	91953.430	10.148	101.5	0.964	11553		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.402	84037.695	84239.859	10.554	105.5	1.002	1739164		1.03
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.398	78699.977	74685.898	9.991	99.9	0.949	1341		1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.403	75403.938	69870.023	9.756	97.6	0.927	1392474		1.02
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.396	69458.313	67410.773	10.218	102.2	0.971	1304093		1.11
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.391	59631.082	59526.586	10.510	105.1	0.998	968		1.08
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.398	100127.297	88785.359	9.336	93.4	0.887	7137		1.05
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.392	101367.383	88560.258	9.198	92.0	0.874	2505		1.00

Compound name: M4PFHpA
Response Factor: 0.949823
RRF SD: 0.0458482, % Relative SD: 4.82703
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



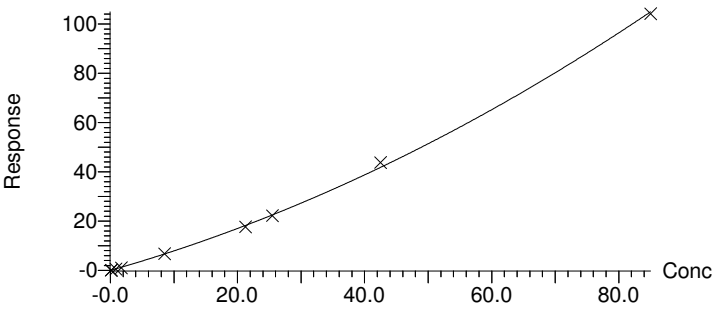
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.328	11194.032	559.837	0.679	79.8	0.588	71		0.58
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.319	12271.508	1270.581	1.397	82.2	0.609	304		0.60
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.325	10437.030	6982.396	8.540	100.5	0.787	390	877	0.58
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.321	9613.386	16964.984	20.643	97.1	0.830	1444	1017	0.59
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.322	9204.258	20468.014	25.216	98.9	0.872	9263	521	0.61
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.318	7778.292	34080.543	44.106	103.8	1.031	9050	1561	0.60
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.313	6310.149	65752.359	84.562	99.5	1.226	7218	2159	0.60
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.325	9377.617	52.373	0.076	89.6	0.657	80		0.53
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.315	10742.247	110.327	0.140	82.3	0.604	64		0.63

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.999175
Calibration curve: 0.00590398 * x^2 + 0.732997 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



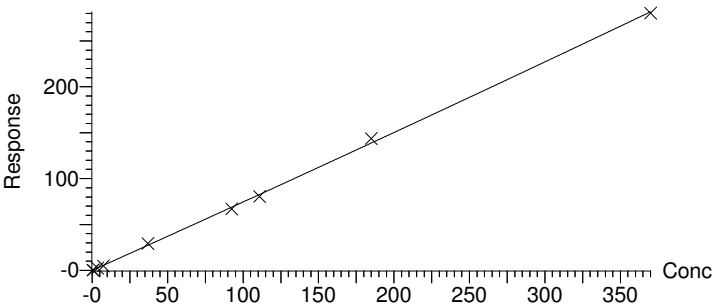
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.565	11194.032	2784.762	3.364	90.9	0.672	532	181	0.98
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.556	12271.508	5887.751	6.487	87.7	0.648	2217	1560	1.00
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.562	10437.030	30587.240	39.517	106.8	0.792	2584	7938	0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.554	9613.386	64287.277	89.807	97.1	0.723	8299	8158	1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.559	9204.258	74057.070	107.897	97.2	0.725	50570	3897	1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.556	7778.292	111633.836	191.185	103.3	0.776	44077	10485	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.547	6310.149	176928.781	368.313	99.5	0.758	29050	11721	1.02
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.554	9377.617	324.156	0.468	126.4	0.934	836		1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.552	10742.247	527.956	0.665	89.8	0.664	393		0.95

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.999089
Calibration curve: 5.97876e-005 * x^2 + 0.739255 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



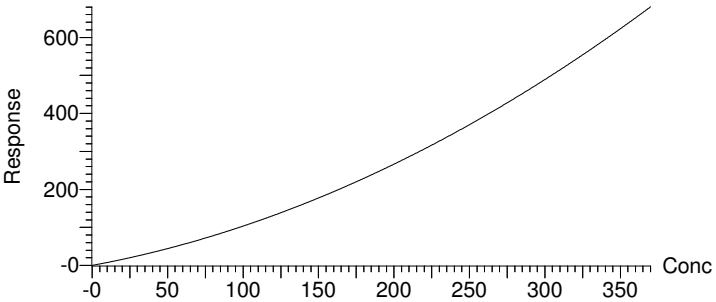
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		11194.032	3344.599	4.043					
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		12271.508	7158.332	7.884					
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		10437.030	37569.636	48.057					
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		9613.386	81252.261	110.450					
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		9204.258	94525.084	133.113					
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		7778.292	145714.379	235.291					
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		6310.149	242681.140	452.875					
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		9377.617	376.529	0.544					
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		10742.247	638.283	0.805					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 0.736126 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



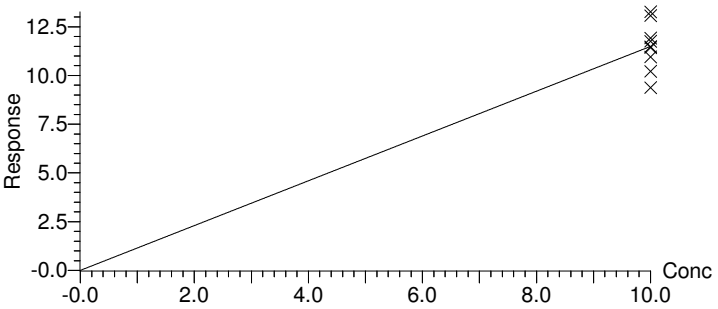
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	8.565	9391.129	11194.032	10.371	103.7	1.192	243467		0.93
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	8.556	10693.415	12271.508	9.985	99.8	1.148	7		0.96
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	8.558	7867.362	10437.030	11.543	115.4	1.327	985		1.08
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	8.554	8781.861	9613.386	9.525	95.2	1.095	204538		1.07
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	8.556	7044.307	9204.258	11.369	113.7	1.307	165		1.27
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	8.552	6617.794	7778.292	10.227	102.3	1.175	316		1.11
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	8.551	5519.950	6310.149	9.946	99.5	1.143	95		0.92
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	8.558	10009.636	9377.617	8.151	81.5	0.937	306		0.86
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	8.548	10521.385	10742.247	8.883	88.8	1.021	166		0.98

Compound name: M3PFHxS
Response Factor: 1.14932
RRF SD: 0.124153, % Relative SD: 10.8024
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



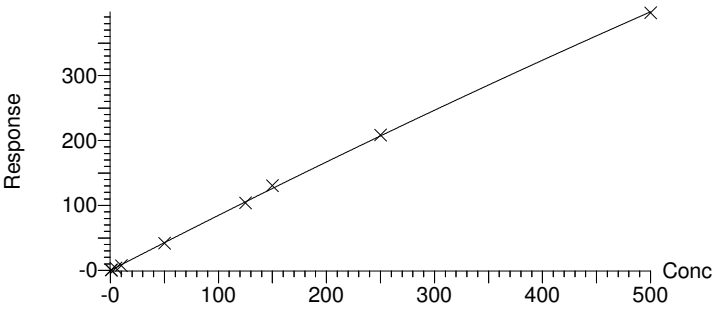
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		92378.477							
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		93629.484							
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		83420.031							
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		75622.828							
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		72165.484							
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		67823.211						1	
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		60240.891							
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		85646.797							
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		86720.586							

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999473
Calibration curve: -0.000128513 * x^2 + 0.860482 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



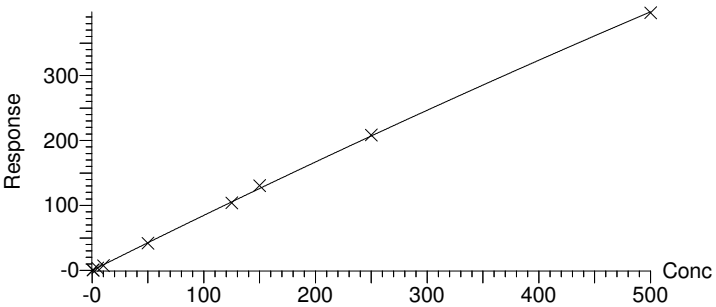
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.354	92378.477	33626.664	4.233	84.7	0.728	367	3	0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.347	93629.484	71443.797	8.879	88.8	0.763	652	230	0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.349	83420.031	350745.688	49.225	98.4	0.841	4181	900321	1.01
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.341	75622.828	784709.063	122.845	98.3	0.830	10105	3202	1.05
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.351	72165.484	941813.500	155.269	103.5	0.870	12020	3339	1.02
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.342	67823.211	1412851.375	251.540	100.6	0.833	11766	2234	1.07
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.341	60240.891	2389997.000	498.126	99.6	0.793	21642	8721	1.02
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.345	85646.797	4059.672	0.551	110.2	0.948	65	1645	1.24
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.334	86720.586	6073.813	0.814	81.4	0.700	78	20462	1.32

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.999473
Calibration curve: -0.000128513 * x^2 + 0.860482 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



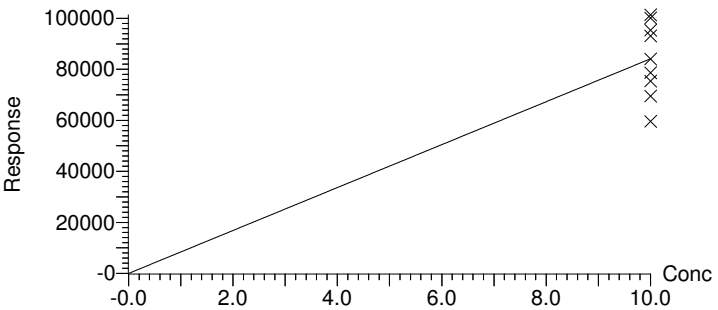
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.354		93068.188	11.062	110.6	9306.819	661		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.347		95398.117	11.339	113.4	9539.812	1112		0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.349		84037.695	9.989	99.9	8403.770	94245		1.04
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.341		78699.977	9.354	93.5	7869.998	966		1.05
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.351		75403.938	8.963	89.6	7540.394	2509		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.347		69458.313	8.256	82.6	6945.831	4163		0.95
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.337		59631.082	7.088	70.9	5963.108	6090		1.14
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.345		100127.297	11.901	119.0	10012.730	2353753		1.02
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.338		101367.383	12.049	120.5	10136.738	2376850		0.97

Compound name: M2PFOA
Response Factor: 8413.24
RRF SD: 1449.57, % Relative SD: 17.2296
Response type: External Std, Area
Curve type: RF



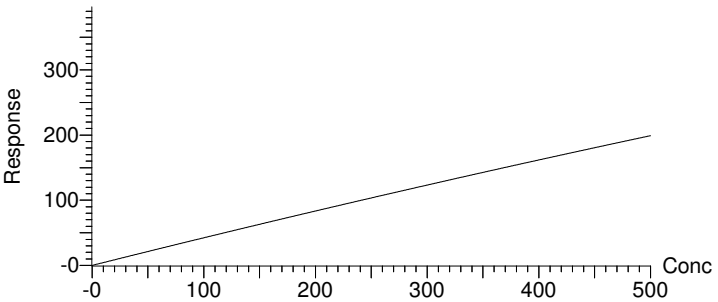
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		92378.477	33626.664	4.233					
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		93629.484	71443.797	8.879					
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		83420.031	350745.688	49.225					
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		75622.828	784709.063	122.845					
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		72165.484	941813.500	155.269					
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		67823.211	1412851.375	251.540					
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		60240.891	2389997.000	498.126					
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		85646.797	4059.672	0.551					
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		86720.586	6073.813	0.814					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.430241 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



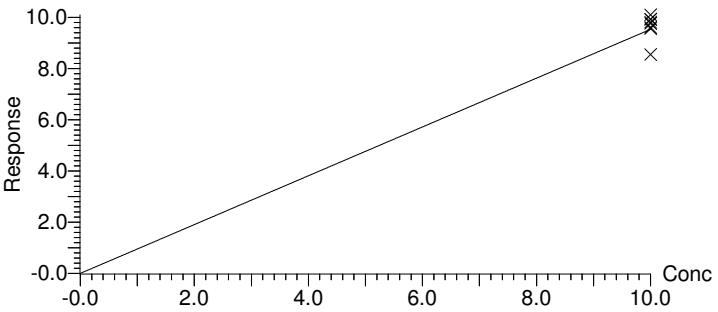
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.354	93068.188	92378.477	10.409	104.1	0.993	1937489		0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.347	95398.117	93629.484	10.292	102.9	0.981	5075		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.349	84037.695	83420.031	10.410	104.1	0.993	1708300		0.98
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.341	78699.977	75622.828	10.077	100.8	0.961	1493437		1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.351	75403.938	72165.484	10.036	100.4	0.957	1443650		1.00
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.343	69458.313	67823.211	10.240	102.4	0.976	1308445		1.09
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.337	59631.082	60240.891	10.594	105.9	1.010	1615		1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.345	100127.297	85646.797	8.970	89.7	0.855	1757151		0.96
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.338	101367.383	86720.586	8.972	89.7	0.856	1742526		0.97

Compound name: M8PFOA
Response Factor: 0.953581
RRF SD: 0.0579709, % Relative SD: 6.07929
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



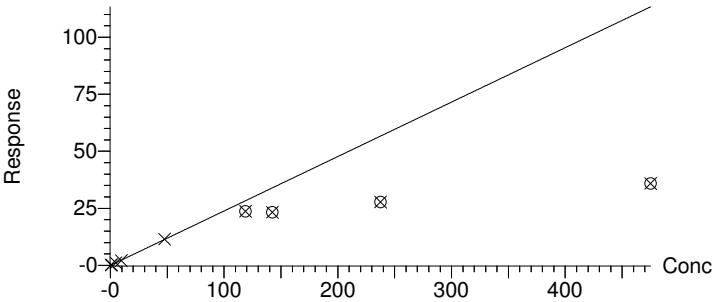
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.312	3563.207	407.566	4.795	100.9	0.241	1648	714	1.00
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.305	4355.449	908.136	8.740	92.0	0.219	19043	28471	0.93
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.308	4256.029	4878.899	48.052	101.2	0.241	2258	4558	0.99
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.300	4596.429	10866.652	99.099	83.5	0.199	2758	8612	0.99
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.310	5548.471	12931.055	97.691	68.6	0.164	2700	4395	0.96
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.301	7645.305	21260.941	116.569	49.1	0.117	13709	7994	0.99
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.295	10648.935	38207.949	150.398	31.7	0.076	11971	8854	1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.316	4064.310	42.286	0.436	91.8	0.219	31	15	0.71
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.297	3636.959	99.960	1.152	121.3	0.289	6	72	1.00

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.997965
Calibration curve: 0.238564 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



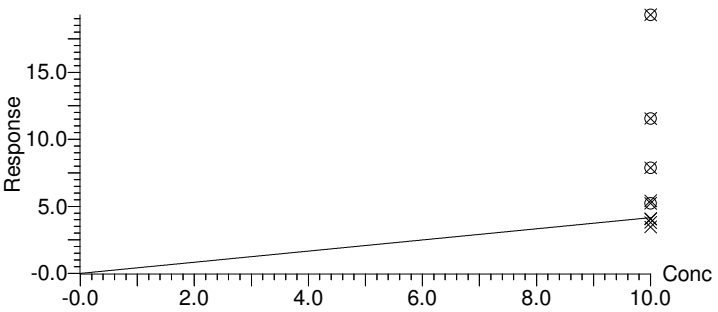
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.308	9391.129	3563.207	9.123	91.2	0.379	292		1.08
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.305	10693.415	4355.449	9.794	97.9	0.407	93724		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.308	7867.362	4256.029	13.008	130.1	0.541	90984		0.92
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.304	8781.861	4596.429	12.585	125.9	0.523	97200		0.79
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.310	7044.307	5548.471	18.939	189.4	0.788	328		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.301	6617.794	7645.305	27.779	277.8	1.155	160134		1.00
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.295	5519.950	10648.935	46.387	463.9	1.929	221970		1.05
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.304	10009.636	4064.310	9.763	97.6	0.406	85639		0.96
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.297	10521.385	3636.959	8.312	83.1	0.346	40		0.99

Compound name: M2-6:2FTS
Response Factor: 0.415882
RRF SD: 0.0742913, % Relative SD: 17.8635
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



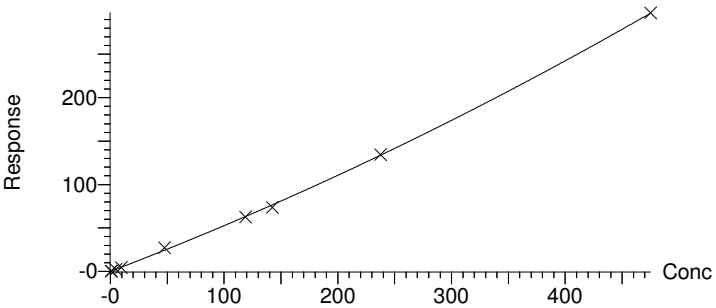
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.435	11718.485	2526.212	4.300	90.5	0.454	54248	45543	1.27
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.437	11646.159	5058.142	8.644	91.0	0.457	108221	108101	0.93
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.439	10818.837	29451.385	52.941	111.5	0.573	11441	574035	0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.431	9250.913	58092.289	118.157	99.5	0.529	5013	16385	1.02
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.441	9727.753	71784.641	137.523	96.5	0.518	1456090	953	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.432	7525.810	101142.914	238.568	100.4	0.566	7659	12117	1.04
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.431	5671.231	168801.906	475.440	100.1	0.627	2099	7713	1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.431	12059.226	292.711	0.485	102.1	0.511	6924	33	1.00
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.420	9845.821	448.124	0.910	95.7	0.479	10216	11	1.05

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.999237
Calibration curve: 0.000264716 * x^2 + 0.500186 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



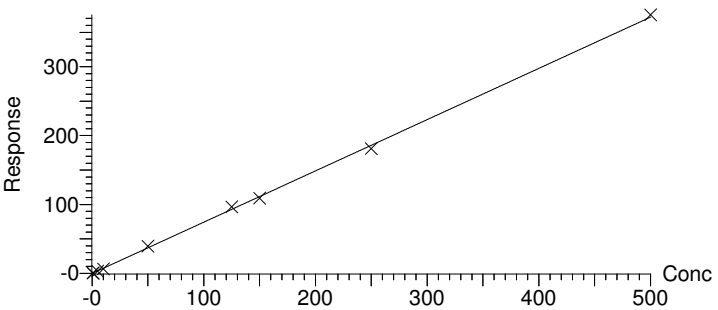
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.0...	95964.969	31433.725	4.402	88.0	0.655	469	124798	0.95
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.0...	93872.930	62461.043	8.943	89.4	0.665	862	267286	0.92
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.0...	83156.852	327237.781	52.888	105.8	0.787	1813	5879	1.02
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.0...	71523.797	690355.500	129.723	103.8	0.772	7776	2698175	0.92
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...	71577.570	780272.625	146.509	97.7	0.727	13031	5605	0.90
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.0...	66425.828	1202890.625	243.380	97.4	0.724	16961	5077908	1.00
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.0...	51921.512	1948726.750	504.428	100.9	0.751	18476	34462	0.99
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.0...	84464.977	2719.855	0.433	86.6	0.644	38	17919	1.07
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.0...	86878.703	5135.311	0.794	79.4	0.591	60	31	1.00

Compound name: PFNA
Coefficient of Determination: R^2 = 0.999182
Calibration curve: 0.744055 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



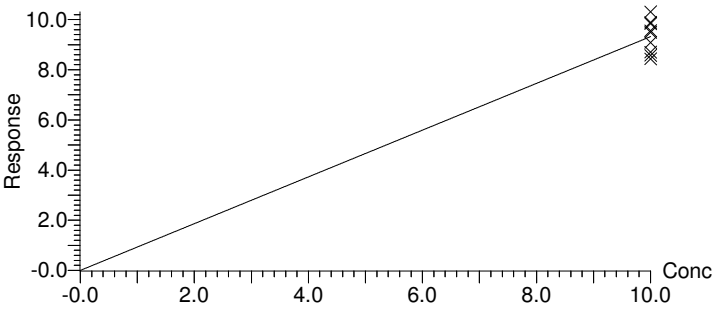
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.0...	93068.188	95964.969	11.060	110.6	1.031	1602935		0.90
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.0...	95398.117	93872.930	10.555	105.6	0.984	1560678		0.92
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.0...	84037.695	83156.852	10.614	106.1	0.990	5320		1.00
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.0...	78699.977	71523.797	9.748	97.5	0.909	2887		0.91
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.0...	75403.938	71577.570	10.182	101.8	0.949	1201		1.00
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.0...	69458.313	66425.828	10.258	102.6	0.956	1094826		0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.0...	59631.082	51921.512	9.340	93.4	0.871	4482		0.96
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.0...	100127.297	84464.977	9.049	90.5	0.844	1391714		0.92
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.0...	101367.383	86878.703	9.193	91.9	0.857	1468898		0.96

Compound name: M9PFNA
Response Factor: 0.932269
RRF SD: 0.0656282, % Relative SD: 7.03961
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



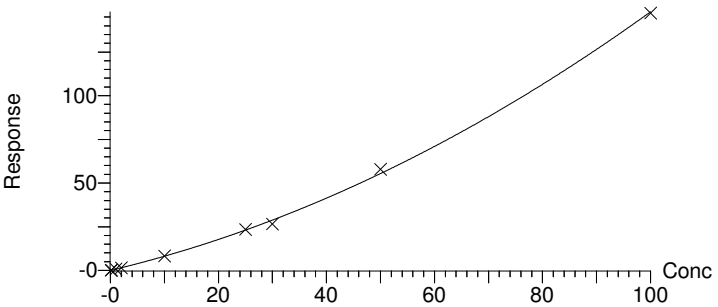
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	9.958	11718.485	783.779	0.900	90.0	0.669	105	2970	0.41
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	9.887	11646.159	1640.697	1.877	93.8	0.704	519	38	2.43
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	9.958	10818.837	8975.997	10.210	102.1	0.830	4011	195	0.40
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	9.952	9250.913	21667.051	25.323	101.3	0.937	2924	2166	0.39
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	9.959	9727.753	25841.545	28.096	93.7	0.885	3885	2088	0.41
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	9.953	7525.810	43614.066	51.700	103.4	1.159	7922	2028	0.39
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	9.952	5671.231	83526.133	99.682	99.7	1.473	8227	2878	0.40
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	9.952	12059.226	99.985	0.112	112.4	0.829	1082	4	0.38
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	9.942	9845.821	154.865	0.213	106.5	0.786	7	4	0.36

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.999045
Calibration curve: 0.00743162 * x^2 + 0.736714 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



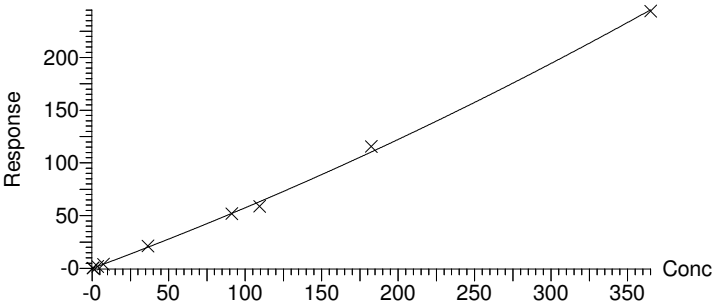
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.1...	11718.485	2167.418	3.428	93.9	0.507	621	28154	0.93
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.1...	11646.159	4483.462	7.118	97.5	0.527	2820	339	0.92
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.1...	10818.837	22900.135	38.328	105.0	0.580	20112	1605	0.90
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.1...	9250.913	48143.723	91.054	99.8	0.570	12901	16620	0.96
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...	9727.753	57190.742	102.137	93.3	0.537	16869	14984	0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.1...	7525.810	86943.906	190.076	104.2	0.633	30872	13362	0.92
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.1...	5671.231	138349.719	363.427	99.6	0.668	27041	15729	0.93
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.1...	12059.226	207.903	0.320	87.7	0.472	3885	60	0.93
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.1...	9845.821	402.574	0.759	104.0	0.560	29	30	0.90

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.998790
Calibration curve: 0.000366026 * x^2 + 0.538225 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



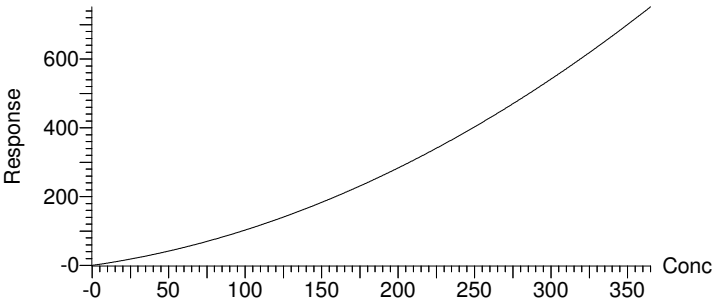
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18		11718.485	2951.197	4.328					
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52		11646.159	6124.159	8.995					
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26		10818.837	31876.132	48.538					
4	I18532	IA2-537STD125	27-Feb-20	14:51:56		9250.913	69810.774	116.377					
5	I18533	IA2-537STD150	27-Feb-20	15:08:31		9727.753	83032.287	130.233					
6	I18534	IA2-537STD250	27-Feb-20	15:25:04		7525.810	130557.972	241.776					
7	I18535	IA2-537STD500	27-Feb-20	15:41:35		5671.231	221875.852	463.109					
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48		12059.226	307.888	0.433					
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20		9845.821	557.439	0.972					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 0.63747 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



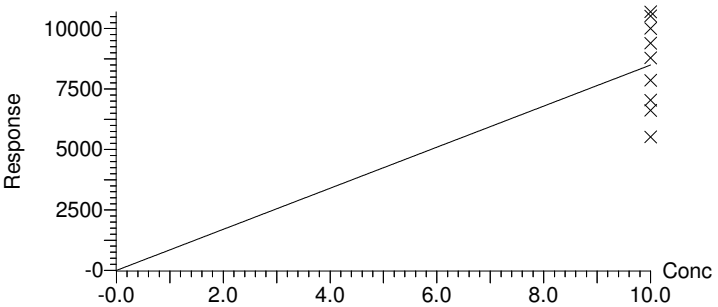
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.1...		9391.129	11.056	110.6	939.113	1378		0.91
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.1...		10693.415	12.589	125.9	1069.342	615		0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.1...		7867.362	9.262	92.6	786.736	128486		0.93
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.1...		8781.861	10.339	103.4	878.186	621		0.96
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...		7044.307	8.293	82.9	704.431	114994		0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.1...		6617.794	7.791	77.9	661.779	108137		1.02
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.1...		5519.950	6.499	65.0	551.995	88952		0.94
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.1...		10009.636	11.784	117.8	1000.964	170952		0.91
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.1...		10521.385	12.387	123.9	1052.139	918		0.95

Compound name: M4PFOS
Response Factor: 849.409
RRF SD: 183.684, % Relative SD: 21.625
Response type: External Std, Area
Curve type: RF



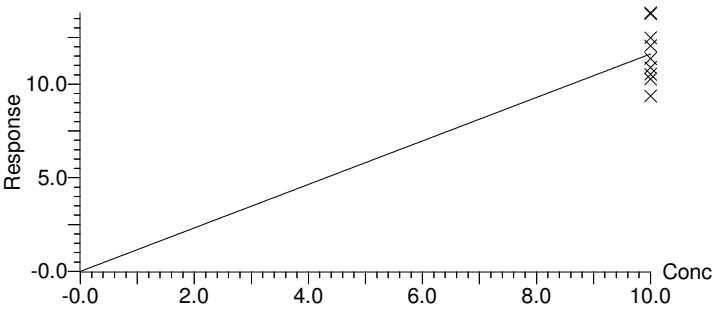
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.1...	9391.129	11718.485	10.745	107.5	1.248	204497		0.88
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.1...	10693.415	11646.159	9.378	93.8	1.089	719		0.94
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.1...	7867.362	10818.837	11.842	118.4	1.375	397		1.02
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.1...	8781.861	9250.913	9.071	90.7	1.053	150755		0.94
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.1...	7044.307	9727.753	11.891	118.9	1.381	176		0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.1...	6617.794	7525.810	9.793	97.9	1.137	121071		1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.1...	5519.950	5671.231	8.847	88.5	1.027	312		1.05
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.1...	10009.636	12059.226	10.374	103.7	1.205	722		0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.1...	10521.385	9845.821	8.058	80.6	0.936	160598		0.86

Compound name: M8PFOS
Response Factor: 1.16129
RRF SD: 0.153934, % Relative SD: 13.2555
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



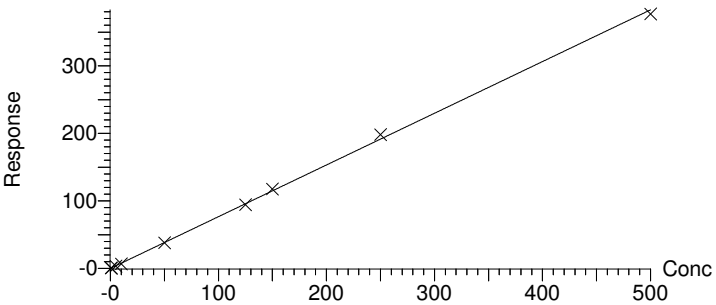
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	88966.984	28374.779	4.164	83.3	0.638	983	152	0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	88326.609	58492.285	8.646	86.5	0.662	2628	238367	0.87
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	79103.945	301249.438	49.719	99.4	0.762	4184	1023	0.94
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	65619.195	617393.063	122.835	98.3	0.753	7264	1641	0.93
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	61123.406	719876.125	153.759	102.5	0.785	5129	4683	0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	53262.887	1056450.125	258.950	103.6	0.793	11616	4157687	1.05
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...	45589.348	1718521.000	492.133	98.4	0.754	15026	3396	0.97
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	85360.250	3119.056	0.477	95.4	0.731	75	15236	0.97
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	86921.727	5443.025	0.818	81.8	0.626	74	22569	0.94

Compound name: PFDA
Coefficient of Determination: R^2 = 0.999127
Calibration curve: 0.765965 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



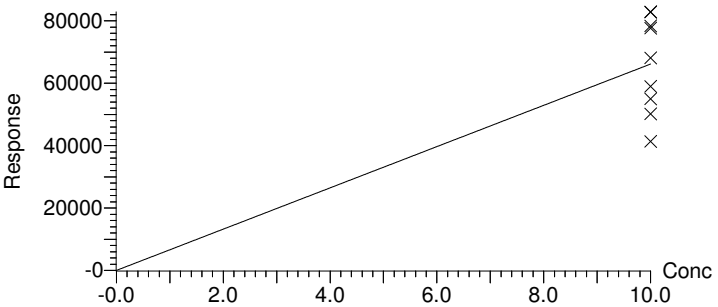
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...		77657.359	11.740	117.4	7765.736	17676		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...		78374.711	11.848	118.5	7837.471	15988		1.01
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...		68134.172	10.300	103.0	6813.417	15667		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...		59026.023	8.923	89.2	5902.602	14305		0.93
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...		54996.473	8.314	83.1	5499.647	13758		0.94
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...		50150.867	7.582	75.8	5015.087	10378		1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...		41307.793	6.245	62.4	4130.779	9403		0.97
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...		82886.930	12.530	125.3	8288.693	13655		0.98
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...		82804.273	12.518	125.2	8280.427	11882		0.96

Compound name: M2PFDA
Response Factor: 6614.87
RRF SD: 1537.67, % Relative SD: 23.2457
Response type: External Std, Area
Curve type: RF



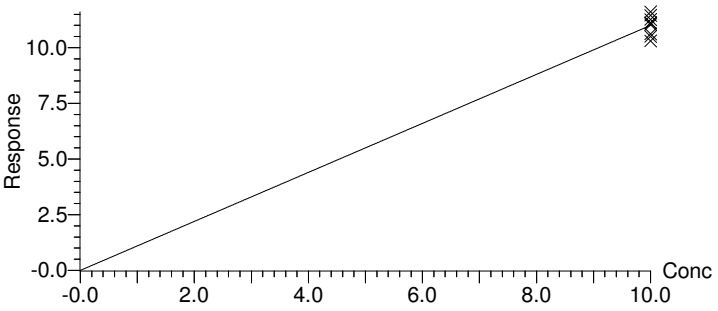
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	77657.359	88966.984	10.413	104.1	1.146	1653693		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	78374.711	88326.609	10.243	102.4	1.127	2058		1.01
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	68134.172	79103.945	10.552	105.5	1.161	8096		0.93
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	59026.023	65619.195	10.104	101.0	1.112	7804		0.90
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	54996.473	61123.406	10.102	101.0	1.111	1105754		0.92
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	50150.867	53262.887	9.653	96.5	1.062	980		1.02
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...	41307.793	45589.348	10.031	100.3	1.104	826126		0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	82886.930	85360.250	9.360	93.6	1.030	6398		0.97
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	82804.273	86921.727	9.541	95.4	1.050	4204		0.97

Compound name: M6PFDA
Response Factor: 1.10022
RRF SD: 0.0443023, % Relative SD: 4.02667
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



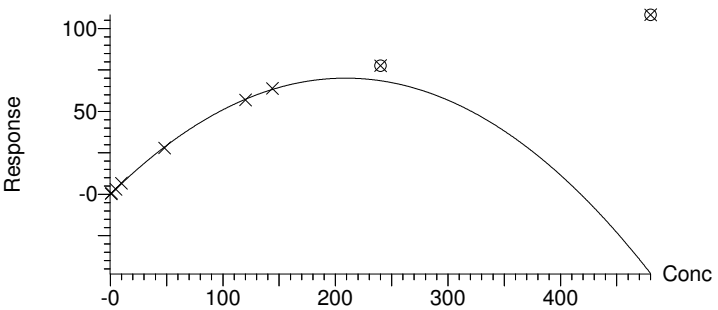
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	2127.701	650.963	4.613	96.1	0.637	14177	510	1.03
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.711	2138.415	1436.721	10.272	107.0	0.700	1196	538	0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	2351.443	6599.380	47.176	98.3	0.585	145218	1549	1.03
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	2492.435	14184.246	118.395	98.7	0.474	7881	7934	0.99
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.711	2549.115	16264.744	146.456	101.7	0.443	11566	218287	1.00
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	3225.862	25025.311			0.323	8458	3760	0.96
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.6...	3821.055	41377.727			0.226	5174	10615	1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	1976.099	69.515	0.525	109.4	0.733	139	10	0.81
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	2019.154	139.744	1.035	107.8	0.721	2970	1681	1.13

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999538
Calibration curve: -0.001604 * x^2 + 0.670578 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



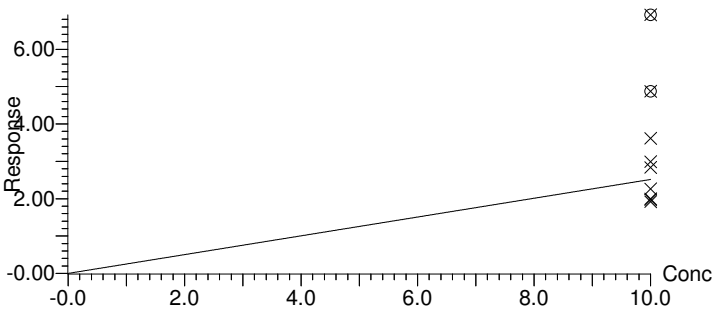
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	9391.129	2127.701	9.009	90.1	0.227	39119		0.89
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	10693.415	2138.415	7.952	79.5	0.200	38513		0.96
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	7867.362	2351.443	11.885	118.8	0.299	42023		1.03
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	8781.861	2492.435	11.285	112.9	0.284	332		1.02
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	7044.307	2549.115	14.389	143.9	0.362	839		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	6617.794	3225.862	19.382	193.8	0.487	529		0.95
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.6...	5519.950	3821.055	27.525	275.2	0.692	328		1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	10009.636	1976.099	7.850	78.5	0.197	35453		1.02
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	10521.385	2019.154	7.631	76.3	0.192	424		1.02

Compound name: M2-8:2FTS
Response Factor: 0.251491
RRF SD: 0.0648374, % Relative SD: 25.7812
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



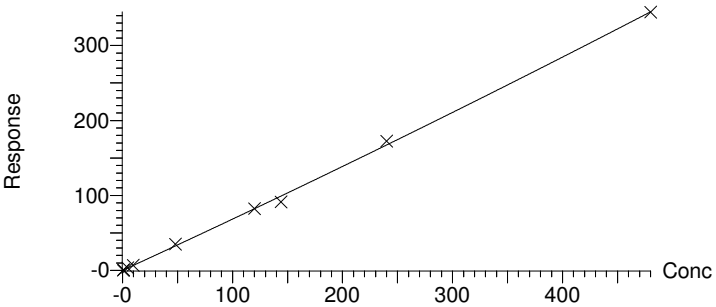
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	10.7...	11718.485	4233.052	5.343	111.3	0.753	99222	53746	0.92
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	10.7...	11646.159	7887.980	10.013	104.3	0.706	182853	119099	0.86
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	10.7...	10818.837	38100.289	51.774	107.9	0.734	840530	2476	0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	10.7...	9250.913	76053.859	119.787	99.8	0.685	1652081	2086	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	10.7...	9727.753	88918.977	132.956	92.3	0.635	1242	1405348	0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	10.7...	7525.810	129895.969	247.351	103.1	0.719	773	9635	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	10.7...	5671.231	195337.875	479.273	99.8	0.718	2319	5039	0.99
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	10.7...	12059.226	220.333	0.270	56.3	0.381	6297	17	0.98
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	10.7...	9845.821	698.416	1.050	109.4	0.739	89	3	1.05

Compound name: PFNS
Coefficient of Determination: R^2 = 0.998519
Calibration curve: 8.99799e-005 * x^2 + 0.67554 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



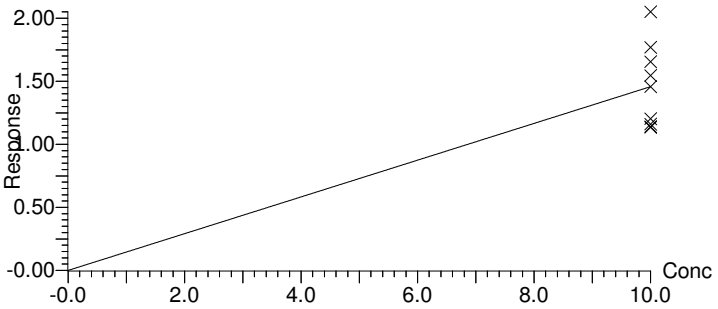
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.085	77657.359	9001.986	7.953	79.5	0.116	430		0.94
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.087	78374.711	9429.717	8.255	82.5	0.120	180		0.93
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.084	68134.172	9927.184	9.996	100.0	0.146	625		1.01
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.079	59026.023	9126.865	10.609	106.1	0.155	171592		0.88
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.087	54996.473	9105.276	11.359	113.6	0.166	974		0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.082	50150.867	8871.647	12.137	121.4	0.177	174469		0.91
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.079	41307.793	8472.627	14.073	140.7	0.205	160634		0.95
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.079	82886.930	9412.311	7.791	77.9	0.114	431		0.98
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.082	82804.273	9446.208	7.827	78.3	0.114	186025		0.89

Compound name: d3-NMeFOSAA
Response Factor: 0.145752
RRF SD: 0.0326752, % Relative SD: 22.4184
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



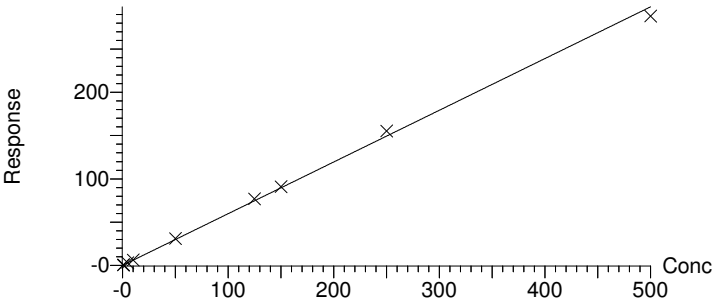
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.090	9001.986	2728.754	5.072	101.4	0.606	381	194	0.99
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.087	9429.717	5986.672	10.623	106.2	0.635	1017	748	1.06
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.090	9927.184	30740.287	51.815	103.6	0.619	2831	2718	0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.085	9126.865	70059.523	128.446	102.8	0.614	6843	3412	0.92
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.092	9105.276	82880.930	152.312	101.5	0.607	9270	4240	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.087	8871.647	137711.047	259.740	103.9	0.621	8677	4416	0.92
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.079	8472.627	244027.031	481.941	96.4	0.576	9247	4715	1.05
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.090	9412.311	298.161	0.530	106.0	0.634	62	10	0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.087	9446.208	576.220	1.021	102.1	0.610	75	99	1.04

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.998810
Calibration curve: 0.597621 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



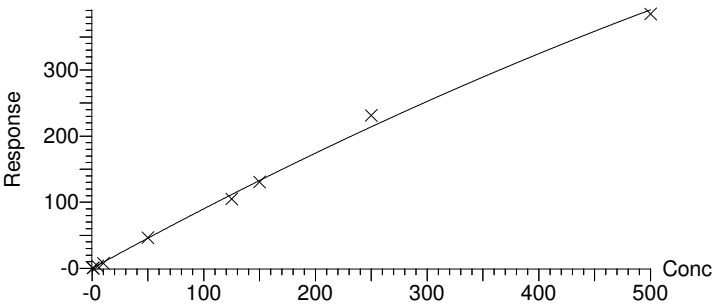
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.255	83099.617	29479.420	3.814	76.3	0.709	614	92844	0.95
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.252	79021.750	62609.438	8.532	85.3	0.792	1490	801	1.03
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.255	64158.406	299291.375	50.928	101.9	0.933	6978	8868	0.96
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.245	56477.063	593038.000	117.168	93.7	0.840	8003	4019	1.08
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.258	52988.070	693444.688	147.520	98.3	0.872	12339	1078	0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.247	42395.594	979807.625	271.907	108.8	0.924	22013	855	1.13
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.244	40741.063	1567241.750	490.197	98.0	0.769	12920	1409	1.06
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.250	78990.391	2866.169	0.390	77.9	0.726	56	16246	0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.252	80848.156	5800.123	0.771	77.1	0.717	78	19925	0.99

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.997157
Calibration curve: -0.000298734 * x^2 + 0.931191 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



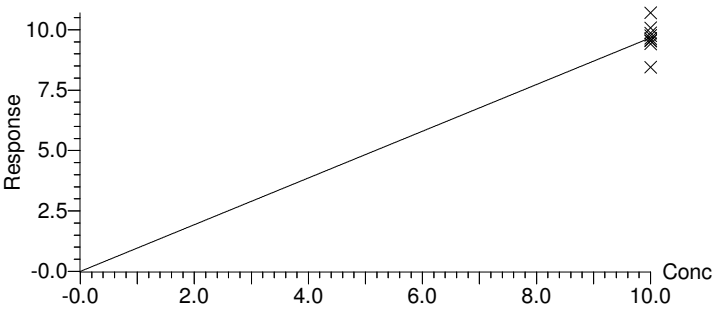
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.256	77657.359	83099.617	11.068	110.7	1.070	1273		0.96
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.253	78374.711	79021.750	10.429	104.3	1.008	1541792		1.01
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.255	68134.172	64158.406	9.740	97.4	0.942	1197830		0.95
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.245	59026.023	56477.063	9.897	99.0	0.957	1073319		1.02
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.253	54996.473	52988.070	9.966	99.7	0.963	1501		1.07
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.248	50150.867	42395.594	8.744	87.4	0.845	781839		1.08
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.245	41307.793	40741.063	10.201	102.0	0.986	6905		1.01
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.250	82886.930	78990.391	9.857	98.6	0.953	1543083		0.95
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.248	82804.273	80848.156	10.099	101.0	0.976	1582007		1.04

Compound name: M7-PFUDA
Response Factor: 0.96681
RRF SD: 0.0597265, % Relative SD: 6.17769
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



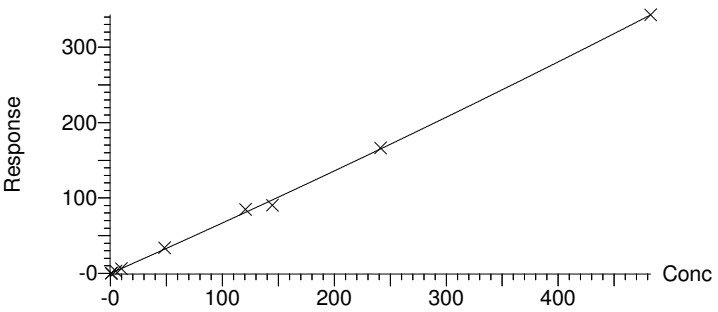
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.267	11718.485	3251.090	4.216	87.4	0.575	75644	50573	0.87
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.264	11646.159	7533.778	9.822	101.8	0.670	179948	101257	0.90
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.261	10818.837	36514.367	50.898	105.5	0.699	841804	10505	0.97
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.256	9250.913	78685.211	126.685	105.0	0.705	1807037	918	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.264	9727.753	87935.875	134.469	92.9	0.625	1973297	8626	1.03
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.259	7525.810	125274.078	243.305	100.9	0.690	7166	1699592	0.99
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.256	5671.231	194472.438	482.736	100.0	0.711	1798	6305	0.99
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.272	12059.226	243.935	0.308	63.8	0.419	6648	7779	0.75
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.259	9845.821	544.235	0.841	87.1	0.573	13163	3	1.09

Compound name: PFDS
Coefficient of Determination: R^2 = 0.998726
Calibration curve: 0.000109385 * x^2 + 0.657544 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



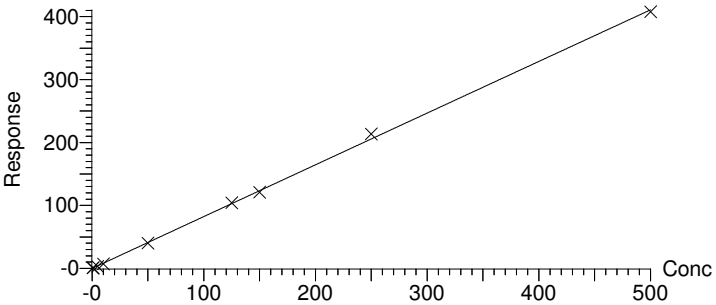
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.124	34159.688	10579.771	3.759	75.2	0.619	234727		0.97
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.121	32409.621	23803.600	8.913	89.1	0.734	535632		1.07
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.123	30321.623	122439.266	49.017	98.0	0.808	3630	14139	1.00
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.118	26596.314	276516.375	126.264	101.0	0.832	4268	30995	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.126	27181.514	328541.656	146.808	97.9	0.806	4819	25205	1.05
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.121	23742.172	506613.313	259.349	103.7	0.854	4768	368	1.03
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.118	21359.803	870578.125	496.089	99.2	0.815	6846	99852	1.03
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.118	31314.320	918.424	0.356	71.2	0.587	37		1.23
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.121	29538.127	2302.018	0.946	94.6	0.779	55789		1.09

Compound name: FOSA
Coefficient of Determination: R^2 = 0.999112
Calibration curve: -4.96794e-006 * x^2 + 0.824046 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



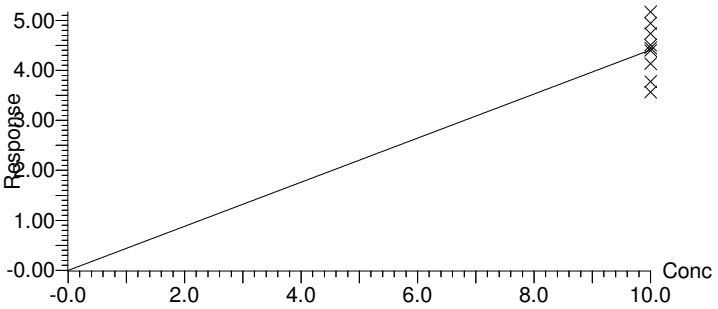
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.125	77657.359	34159.688	9.976	99.8	0.440	649746		0.90
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.122	78374.711	32409.621	9.379	93.8	0.414	3106		0.98
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.124	68134.172	30321.623	10.093	100.9	0.445	570515		0.90
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.114	59026.023	26596.314	10.219	102.2	0.451	498617		1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.127	54996.473	27181.514	11.209	112.1	0.494	814		0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.122	50150.867	23742.172	10.737	107.4	0.473	1051		0.96
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.119	41307.793	21359.803	11.728	117.3	0.517	393893		0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.119	82886.930	31314.320	8.568	85.7	0.378	2169		0.96
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.116	82804.273	29538.127	8.090	80.9	0.357	560878		1.02

Compound name: M8FOSA
Response Factor: 0.44092
RRF SD: 0.0520058, % Relative SD: 11.7948
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



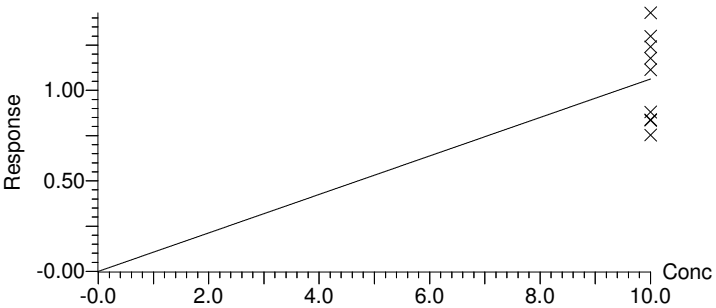
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.374	77657.359	6482.268	7.854	78.5	0.083	2016		0.84
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.371	78374.711	6561.655	7.877	78.8	0.084	153389		0.99
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.368	68134.172	8024.498	11.081	110.8	0.118	234		1.09
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.363	59026.023	6574.735	10.480	104.8	0.111	852		1.08
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.376	54996.473	7148.122	12.229	122.3	0.130	160684		0.89
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.366	50150.867	6221.618	11.672	116.7	0.124	201		1.11
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.363	41307.793	5899.686	13.438	134.4	0.143	129545		0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.363	82886.930	6238.703	7.082	70.8	0.075	284		1.01
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.371	82804.273	7293.184	8.287	82.9	0.088	178992		0.91

Compound name: d5-NEtFOSAA
Response Factor: 0.106284
RRF SD: 0.0242209, % Relative SD: 22.7888
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



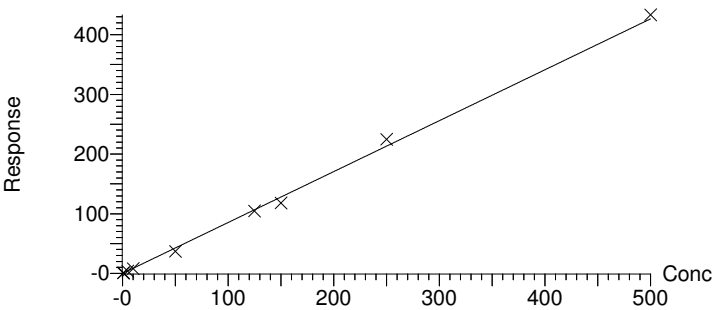
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.379	6482.268	2601.915	4.705	94.1	0.803	353	317	1.01
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.376	6561.655	5451.490	9.739	97.4	0.831	653	40654	1.03
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.379	8024.498	29531.371	43.142	86.3	0.736	3186	143	0.99
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.374	6574.735	68870.625	122.796	98.2	0.838	5270	3013	0.95
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.382	7148.122	84147.008	137.999	92.0	0.785	8278	3339	0.98
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.376	6221.618	139937.203	263.670	105.5	0.900	10536	3915	1.02
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.374	5899.686	255610.016	507.901	101.6	0.867	17562	4997	0.98
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.379	6238.703	320.936	0.603	120.6	1.029	40	6	0.86
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.376	7293.184	587.363	0.944	94.4	0.805	64	48	0.95

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.997328
Calibration curve: 0.853041 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



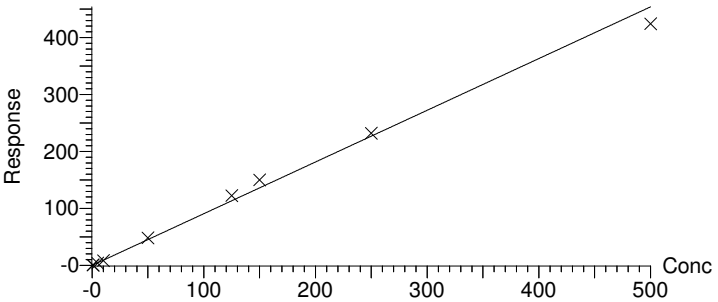
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.722	81236.000	32628.197	4.424	88.5	0.803	616	142	1.12
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.723	81836.984	70172.727	9.445	94.4	0.857	1746	446	0.95
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.722	71010.172	342918.719	53.190	106.4	0.966	7607	620115	1.07
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.718	58892.871	721807.313	134.996	108.0	0.981	10137	769	1.01
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.723	57896.809	869214.063	165.361	110.2	1.001	10995	539	1.05
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.719	55620.824	1291296.375	255.712	102.3	0.929	14424	9133	1.14
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.713	47330.496	2006536.125	466.947	93.4	0.848	16882	4080	1.12
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.717	77519.445	3773.728	0.536	107.2	0.974	64	5022	1.09
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.723	81292.922	6560.292	0.889	88.9	0.807	154	4	1.02

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.995334
Calibration curve: 0.9079 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



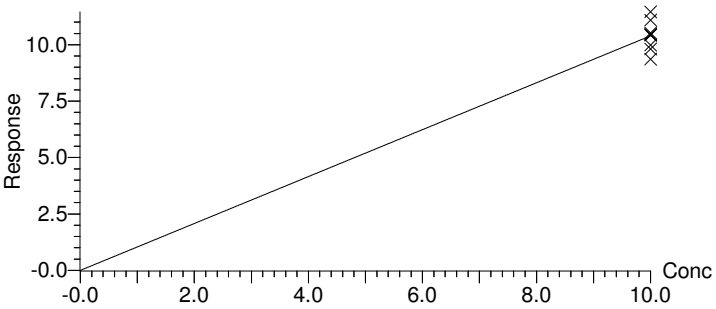
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	11.726	77657.359	81236.000	10.064	100.6	1.046	2241		0.95
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	11.723	78374.711	81836.984	10.046	100.5	1.044	674		0.94
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	11.722	68134.172	71010.172	10.027	100.3	1.042	1910		1.06
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	11.718	59026.023	58892.871	9.599	96.0	0.998	1444		0.97
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	11.723	54996.473	57896.809	10.128	101.3	1.053	1751		1.01
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	11.719	50150.867	55620.824	10.670	106.7	1.109	8340		1.10
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	11.713	41307.793	47330.496	11.023	110.2	1.146	986956		1.12
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	11.717	82886.930	77519.445	8.998	90.0	0.935	1780140		0.99
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	11.723	82804.273	81292.922	9.445	94.5	0.982	1865449		0.94

Compound name: MPFDOA
Response Factor: 1.03942
RRF SD: 0.0635766, % Relative SD: 6.11652
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



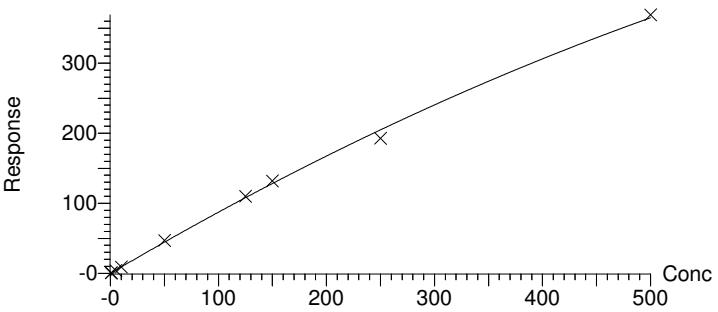
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	12.1...	81236.000	33142.918	4.496	89.9	0.816	772	536	1.00
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	12.1...	81836.984	74049.422	9.993	99.9	0.905	1251	203	1.13
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	12.1...	71010.172	333977.594	52.841	105.7	0.941	6822	1567	0.98
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	12.1...	58892.871	648499.688	127.558	102.0	0.881	9640	8914	1.00
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	12.1...	57896.809	765332.750	154.889	103.3	0.881	8041	1462	0.97
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	12.1...	55620.824	1070954.250	233.305	93.3	0.770	298	3241	0.98
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	12.1...	47330.496	1746415.250	507.675	101.5	0.738	17884	7296	1.09
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	12.1...	77519.445	4260.305	0.605	120.9	1.099	64	93	0.94
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	12.1...	81292.922	7109.269	0.962	96.2	0.875	79	126	1.34

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.998574
Calibration curve: -0.000358951 * x^2 + 0.90904 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



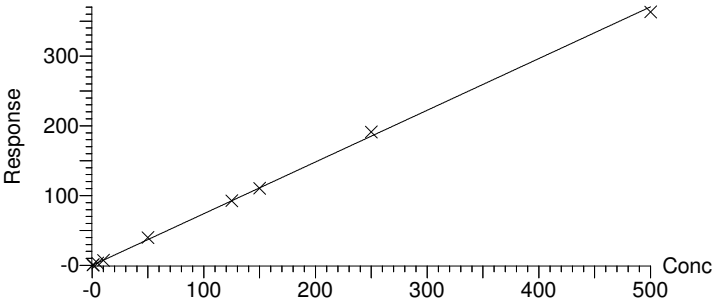
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	12.4...	87989.719	30204.764	4.633	92.7	0.687	928	44	1.11
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	12.4...	89896.859	65072.117	9.770	97.7	0.724	2328	2	1.07
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	12.4...	81471.898	324915.094	53.825	107.7	0.798	8968	1510	1.06
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	12.4...	73635.820	680591.875	124.745	99.8	0.739	16363	3972	1.03
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	12.4...	69408.695	766911.938	149.127	99.4	0.737	23210	7647	1.02
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	12.4...	61592.461	1176527.250	257.810	103.1	0.764	34557	3587	1.05
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	12.4...	52678.184	1913145.000	490.164	98.0	0.726	50430	11549	1.07
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	12.4...	88012.680	3156.608	0.484	96.8	0.717	116	163	1.17
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	12.4...	82218.711	5741.126	0.942	94.2	0.698	277	11	1.06

Compound name: PFTA
Coefficient of Determination: R^2 = 0.999278
Calibration curve: 0.740927 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



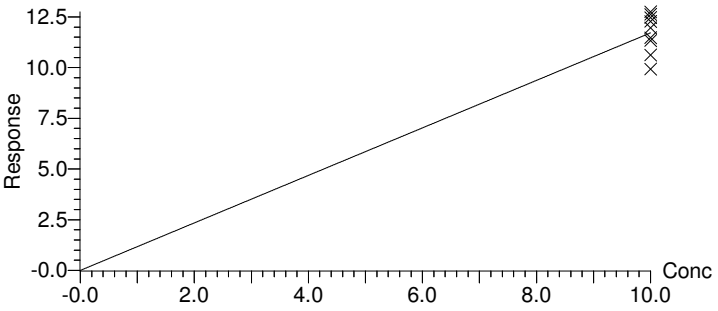
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:57 Eastern Standard Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I18529	IA2-537STD5.0	27-Feb-20	14:02:18	12.4...	77657.359	87989.719	9.672	96.7	1.133	10474		1.08
2	I18530	IA2-537STD10.0	27-Feb-20	14:18:52	12.4...	78374.711	89896.859	9.791	97.9	1.147	5759		1.04
3	I18531	IA2-537STD50.0	27-Feb-20	14:35:26	12.4...	68134.172	81471.898	10.207	102.1	1.196	8161		1.05
4	I18532	IA2-537STD125	27-Feb-20	14:51:56	12.4...	59026.023	73635.820	10.649	106.5	1.248	2690		1.07
5	I18533	IA2-537STD150	27-Feb-20	15:08:31	12.4...	54996.473	69408.695	10.773	107.7	1.262	7		0.99
6	I18534	IA2-537STD250	27-Feb-20	15:25:04	12.4...	50150.867	61592.461	10.483	104.8	1.228	3698		1.08
7	I18535	IA2-537STD500	27-Feb-20	15:41:35	12.4...	41307.793	52678.184	10.886	108.9	1.275	1670		0.94
8	I18539	IA2-537STD0.5	27-Feb-20	16:47:48	12.4...	82886.930	88012.680	9.064	90.6	1.062	8729		1.03
9	I18540	IA2-537STD1.0	27-Feb-20	17:04:20	12.4...	82804.273	82218.711	8.476	84.8	0.993	16052		1.04

Compound name: M2PFTEDA
Response Factor: 1.17151
RRF SD: 0.0965226, % Relative SD: 8.23918
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:47 Eastern Standard Time

Method: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\MethDB\537ISO_Q_200227 .mdb 27 Feb 2020 12:38:15
Calibration: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 09:12:40

ID: IA2-537STD5.0
Name: I18529
Date: 27-Feb-2020
Time: 14:02:18
Description: WG1345050,,537_200120_3
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.25	212.926 > 169.111	14811		4.236		na	84.7
2	M3PFBA	INT STD	2.25	215.926 > 172.122	41336		10.512		na	105.1
3	MPFBA	INT STD	2.25	216.926 > 172.137	48320		10.202		na	102.0
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	19874		4.267		na	85.3
5	M5PFPEA	INT STD	5.21	267.989 > 223.081	66965		10.656		na	106.6
6	PFBS	375-73-5	5.88	298.926 > 79.923	3950		3.678	2.03	NO	83.1
7	M3PFBS	INT STD	5.88	301.989 > 80.254	11904		9.881		na	98.8
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	1759		4.234	1.86	NO	90.6
9	M2-4:2FTS	INT STD	7.05	329.117 > 309.079	5134		8.180		na	81.8
10	PFHxA	307-24-4	7.13	312.989 > 269.028	27587		4.323	16.82	NO	86.5
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	76999		10.105		na	101.1
12	PFPeS	2706-91-4	7.45	348.926 > 80.251	4436		4.172	2.37	NO	88.8
13	PFHpA	375-85-9	8.41	362.926 > 319.014	34573		4.147	5.71	NO	82.9
14	M4PFHpA	INT STD	8.41	366.926 > 321.979	90961		10.290		na	102.9
15	br-PFHxS	355-46-4	8.33	398.904 > 79.915	560	M5	0.679		YES	79.8
16	L-PFHxS	355-46-4	8.57	398.904 > 79.915	2785		3.364	2.08	NO	90.9
17	PFHxS	355-46-4		398.904 > 79.915	3345		4.043		na	
18	M3PFHxS	INT STD	8.57	401.926 > 80.317	11194		10.371		na	103.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.35	412.989 > 368.9	33627		4.233	7.96	NO	84.7
21	M2PFOA	INT STD	9.35	415.032 > 369.968	93068		11.062		na	110.6
22	PFOA	335-67-1		412.989 > 368.9	33627		4.233		na	
23	M8PFOA	INT STD	9.35	420.989 > 375.979	92378		10.409		na	104.1
24	6:2FTS	27619-97-2	9.31	426.989 > 406.921	408		4.795	0.70	NO	100.9
25	M2-6:2FTS	INT STD	9.31	428.989 > 408.917	3563		9.123		na	91.2
26	PFHpS	375-92-8	9.44	448.926 > 80.257	2526		4.300	1.17	NO	90.5
27	PFNA	375-95-1	10.10	462.989 > 418.931	31434		4.402	4.19	NO	88.0
28	M9PFNA	INT STD	10.10	472.053 > 426.947	95965		11.060		na	110.6
29	br-PFOS	1763-23-1	9.96	498.968 > 79.918	784	M5	0.900	4.02	NO	90.0
30	L-PFOS	1763-23-1	10.15	498.968 > 79.918	2167		3.428	1.41	NO	93.9
31	PFOS	1763-23-1		498.968 > 79.918	2951		4.328		na	
32	M4PFOS	INT STD	10.15	503.032 > 80.306	9391		11.056		na	110.6
33	M8PFOS	INT STD	10.15	507.053 > 80.294	11718		10.745		na	107.5
34	PFDA	335-76-2	10.72	513.053 > 468.906	28375		4.164	6.31	NO	83.3
35	M2PFDA	INT STD	10.72	515.053 > 469.934	77657		11.740		na	117.4
36	M6PFDA	INT STD	10.72	519.053 > 473.931	88967		10.413		na	104.1
37	8:2FTS	39108-34-4	10.71	527.032 > 507.079	651		4.613	1.53	NO	96.1
38	M2-8:2FTS	INT STD	10.71	529.053 > 508.945	2128		9.009		na	90.1
39	PFNS	68259-12-1	10.74	548.989 > 80.249	4233		5.343	1.85	NO	111.3

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:47 Eastern Standard Time

ID: IA2-537STD5.0
Name: I18529
Date: 27-Feb-2020
Time: 14:02:18
Description: WG1345050,,537_200120_3
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	9002		7.953		na	79.5
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	2729		5.072	3.39	NO	101.4
42	PFUnA	2058-94-8	11.26	562.989 > 518.903	29479		3.814	7.27	NO	76.3
43	M7-PFUDA	INT STD	11.26	570.053 > 524.923	83100		11.068		na	110.7
44	PFDS	335-77-3	11.27	598.926 > 80.314	3251		4.216	1.60	NO	87.4
45	FOSA	754-91-6	11.12	497.989 > 78.245	10580		3.759		YES	75.2
46	M8FOSA	INT STD	11.12	506.053 > 78.286	34160		9.976		na	99.8
47	d5-NEtFOSAA	INT STD	11.37	589.117 > 418.929	6482		7.854		na	78.5
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	2602		4.705	3.34	NO	94.1
49	PFDoA	307-55-1	11.72	612.989 > 568.967	32628		4.424	12.83	NO	88.5
50	MPFDOA	INT STD	11.73	614.989 > 569.92	81236		10.064		na	100.6
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	33143		4.496	11.35	NO	89.9
52	PFTA	376-06-7	12.48	713.053 > 668.976	30205		4.633	9.27	NO	92.7
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	87990		9.672		na	96.7

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:47 Eastern Standard Time

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Name: I18529
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Date: 27-Feb-2020
Time: 14:02:18
Description: WG1345050,,537_200120_3
User: LCMS01:SG
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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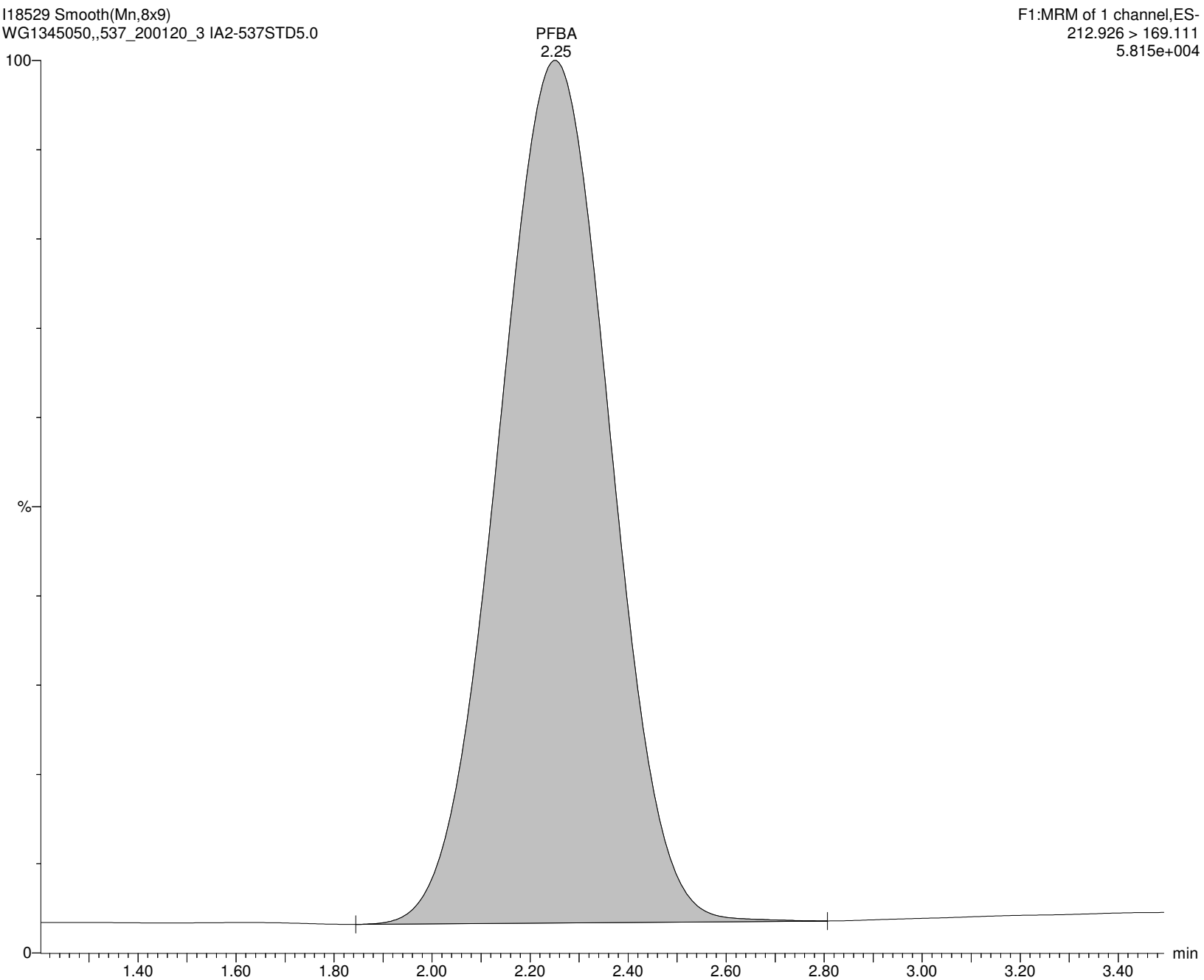
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA



all concentration units in (ng/mL)

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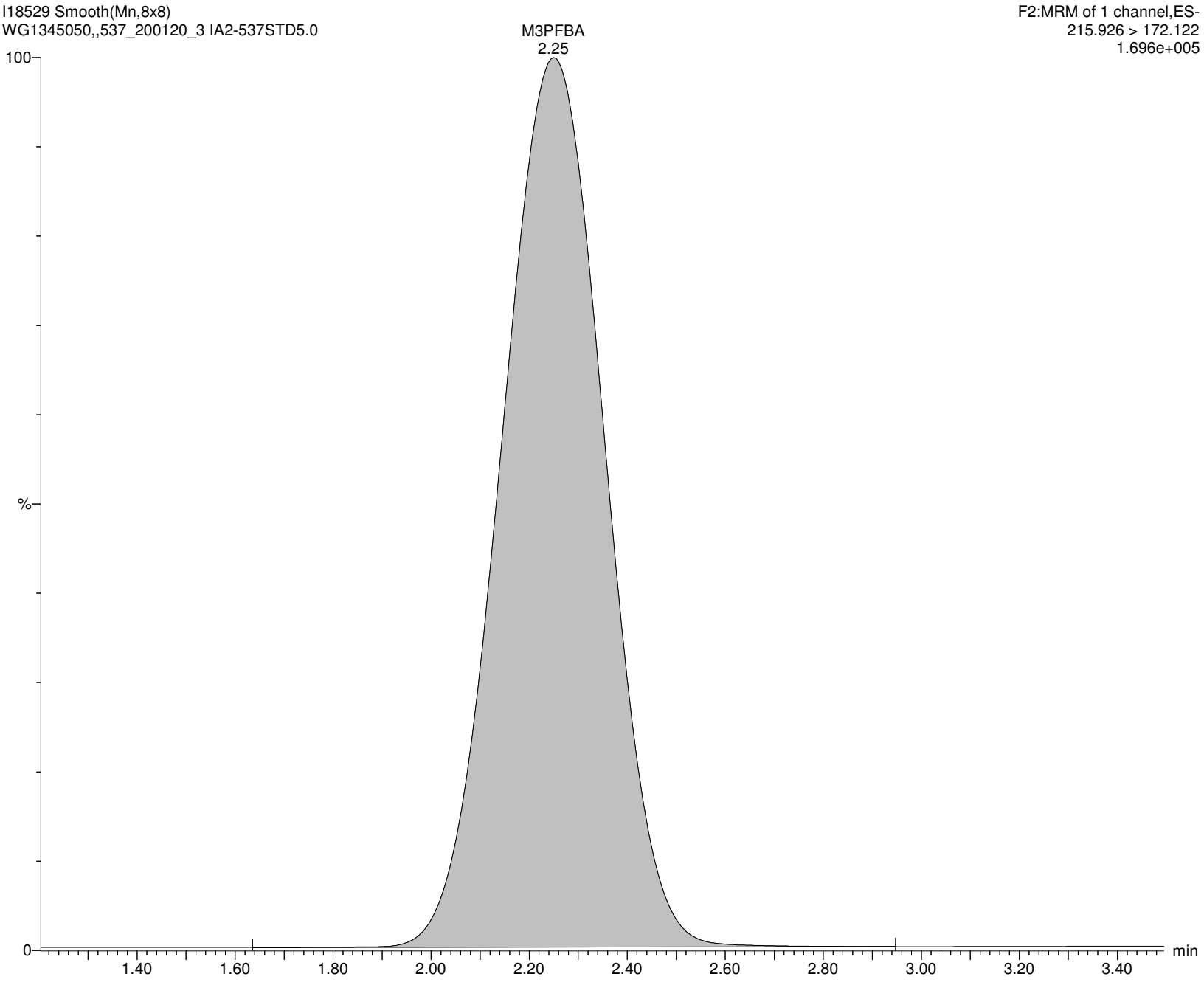

all concentration units in (ng/mL)

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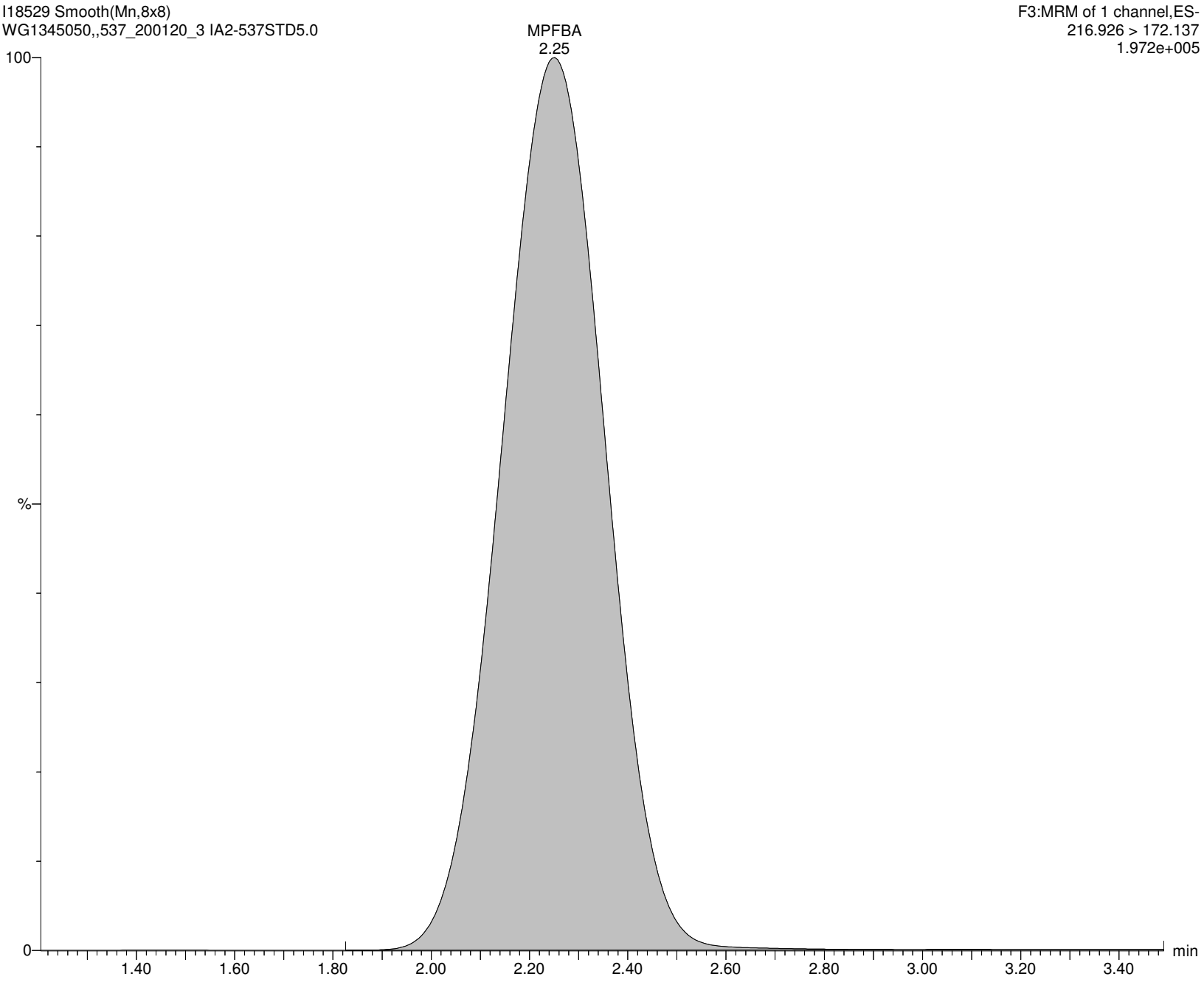

all concentration units in (ng/mL)

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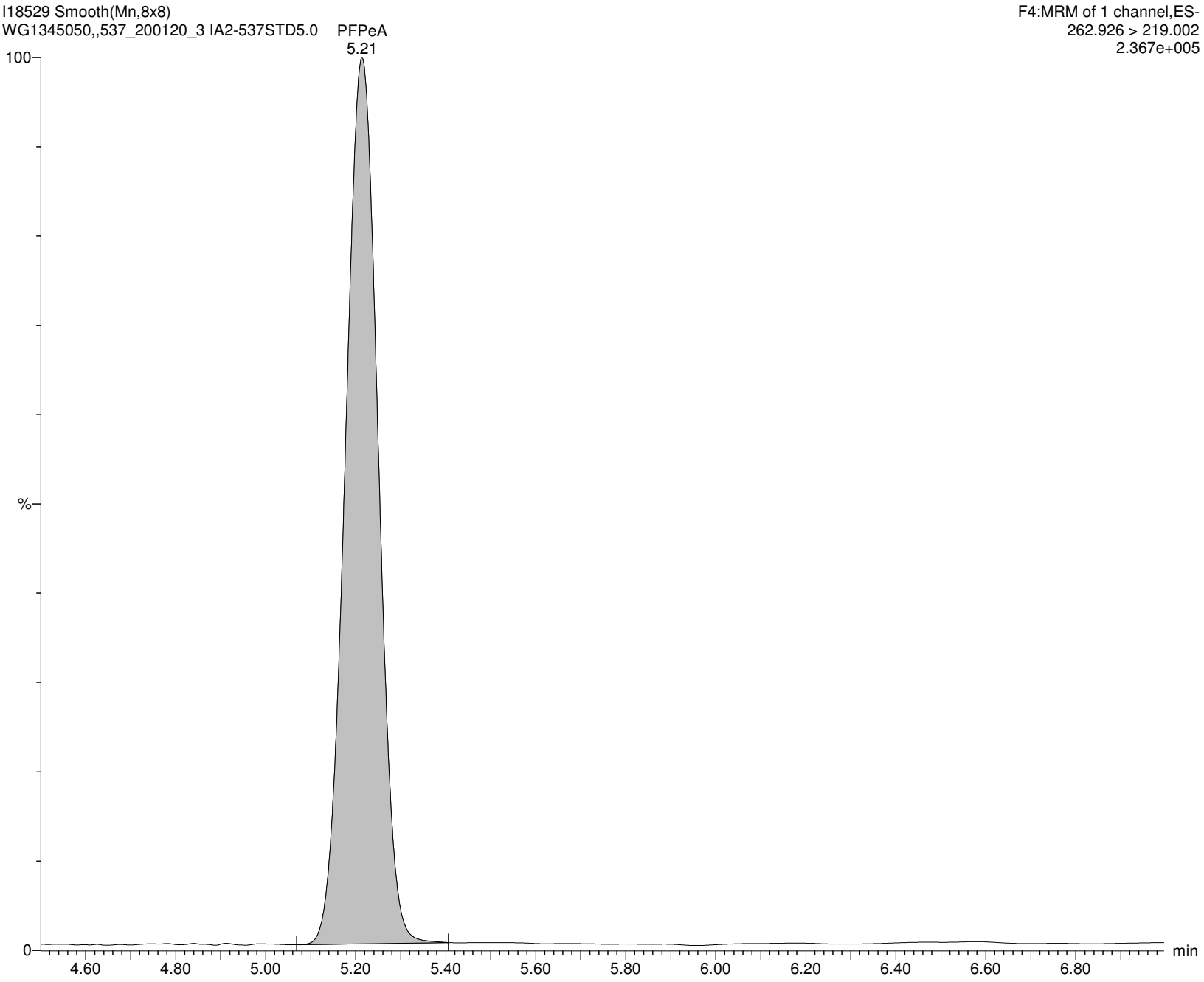

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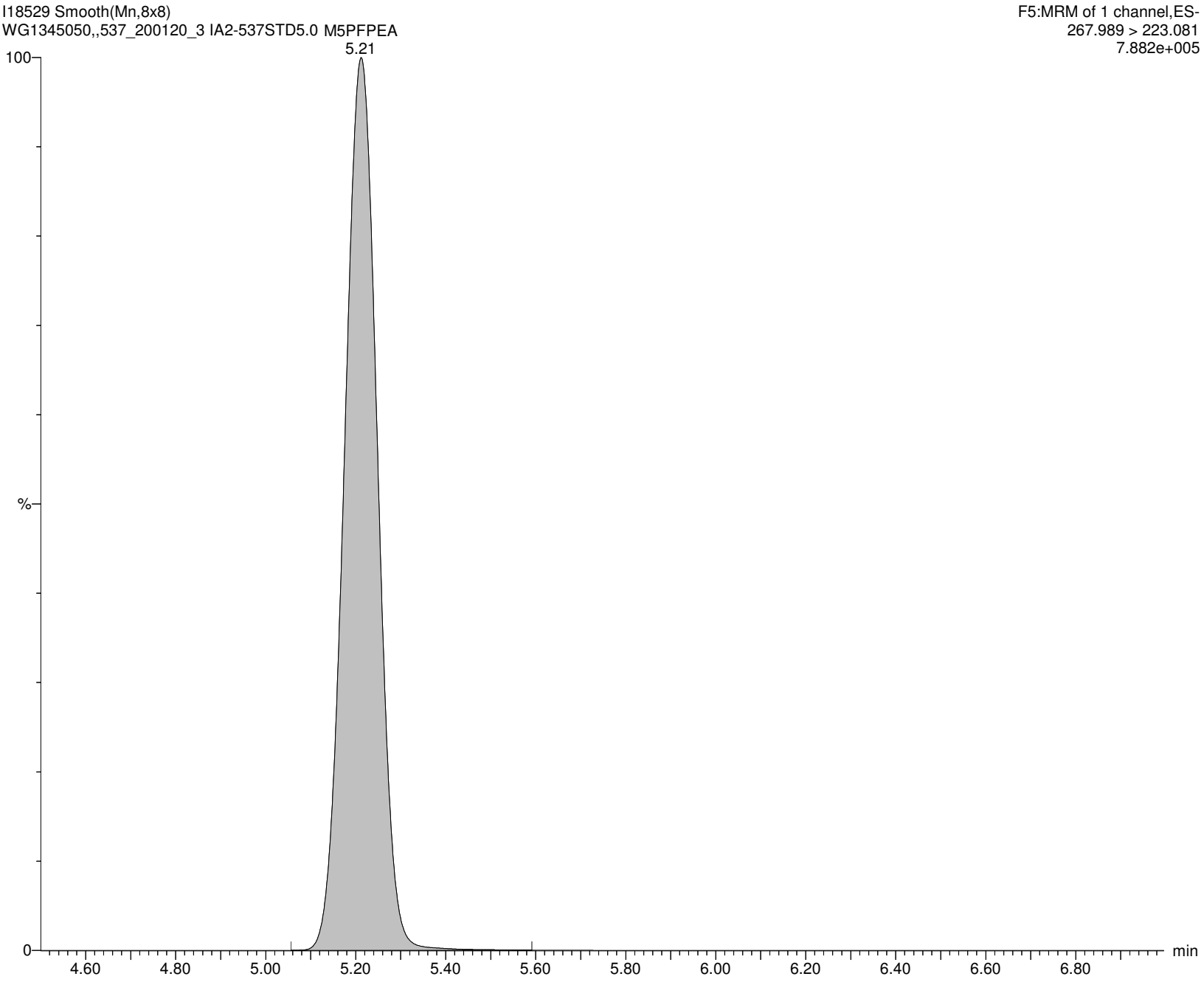

all concentration units in (ng/mL)

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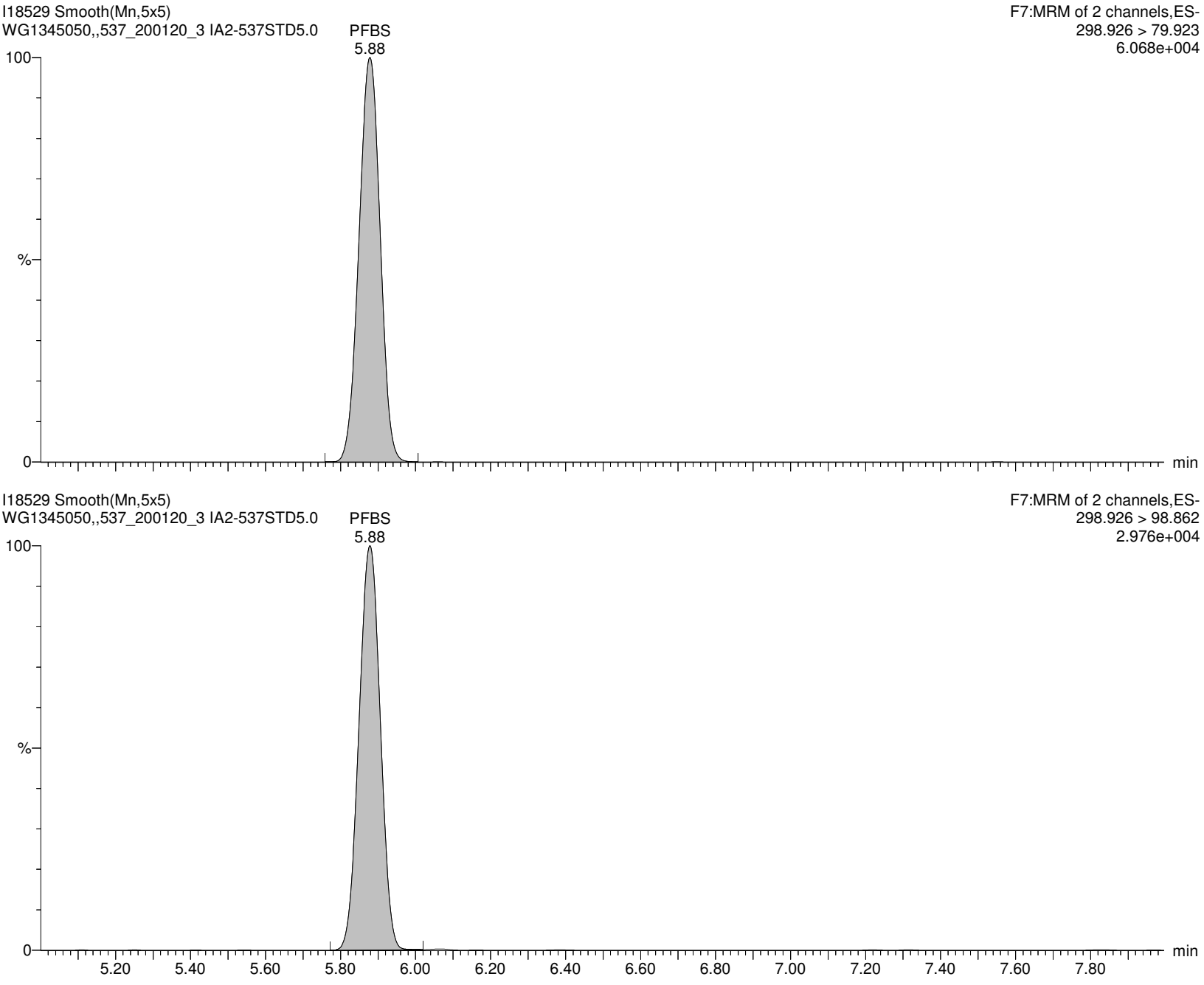

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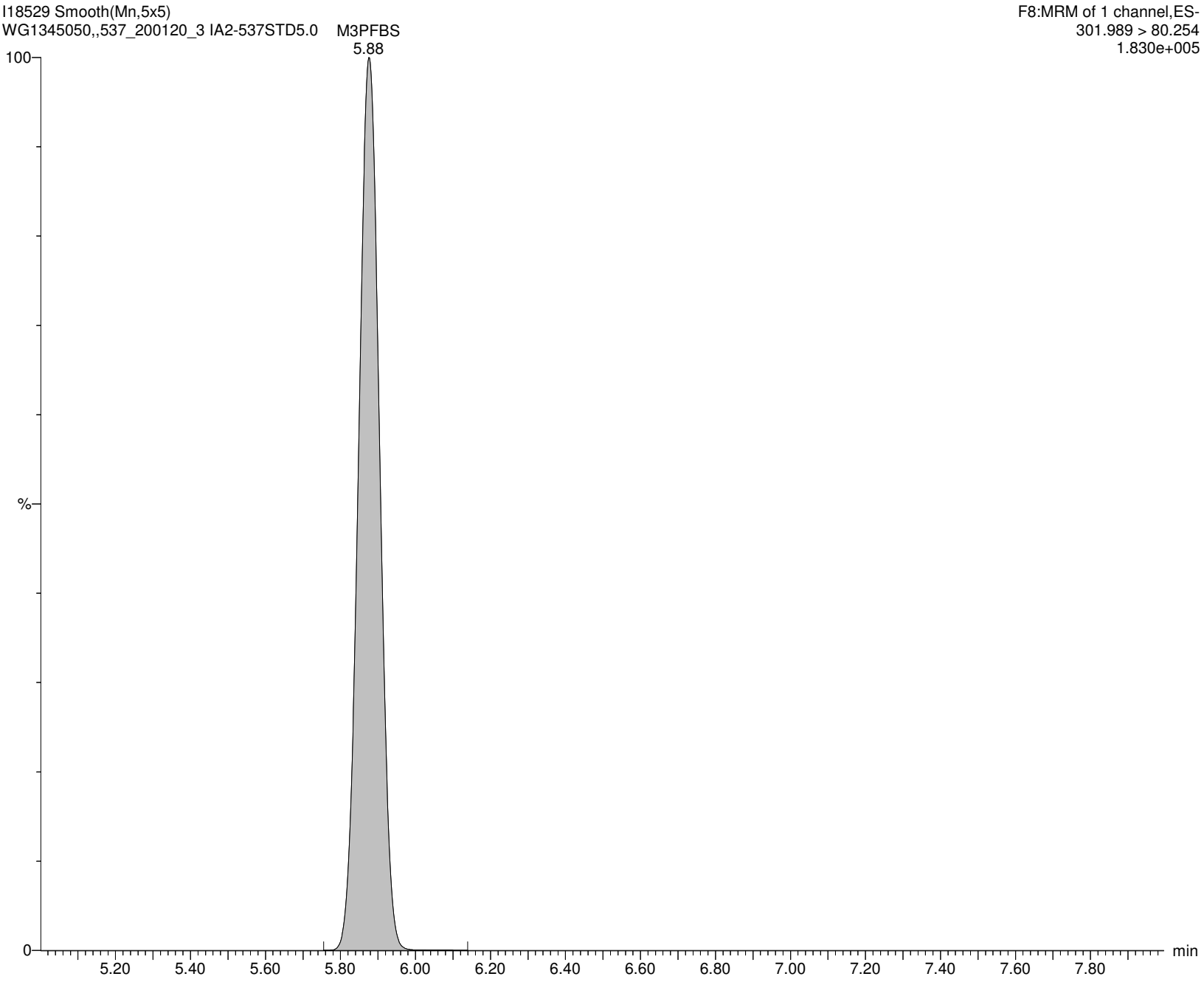

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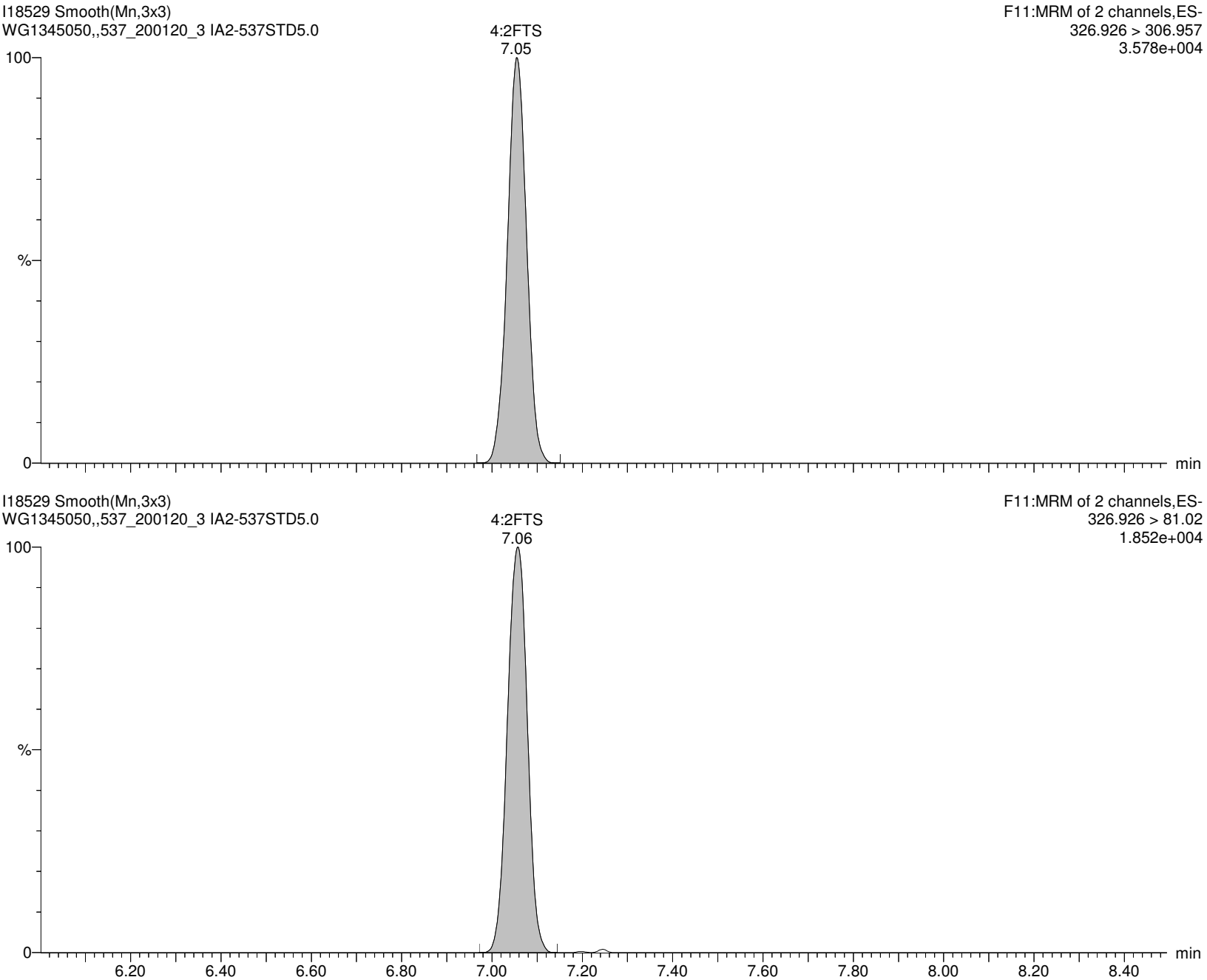

all concentration units in (ng/mL)

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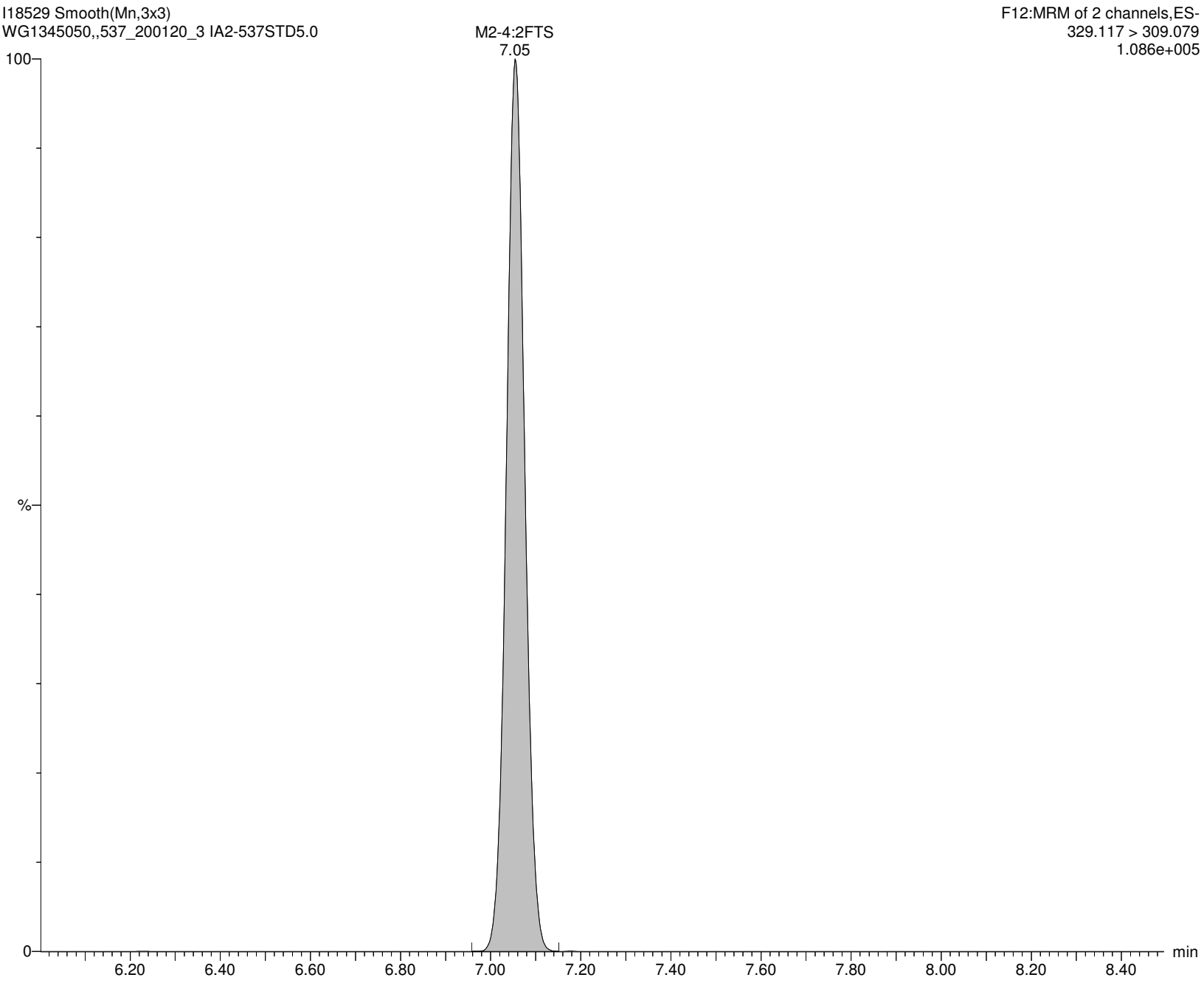

all concentration units in (ng/mL)

Alpha Analytical Inc.
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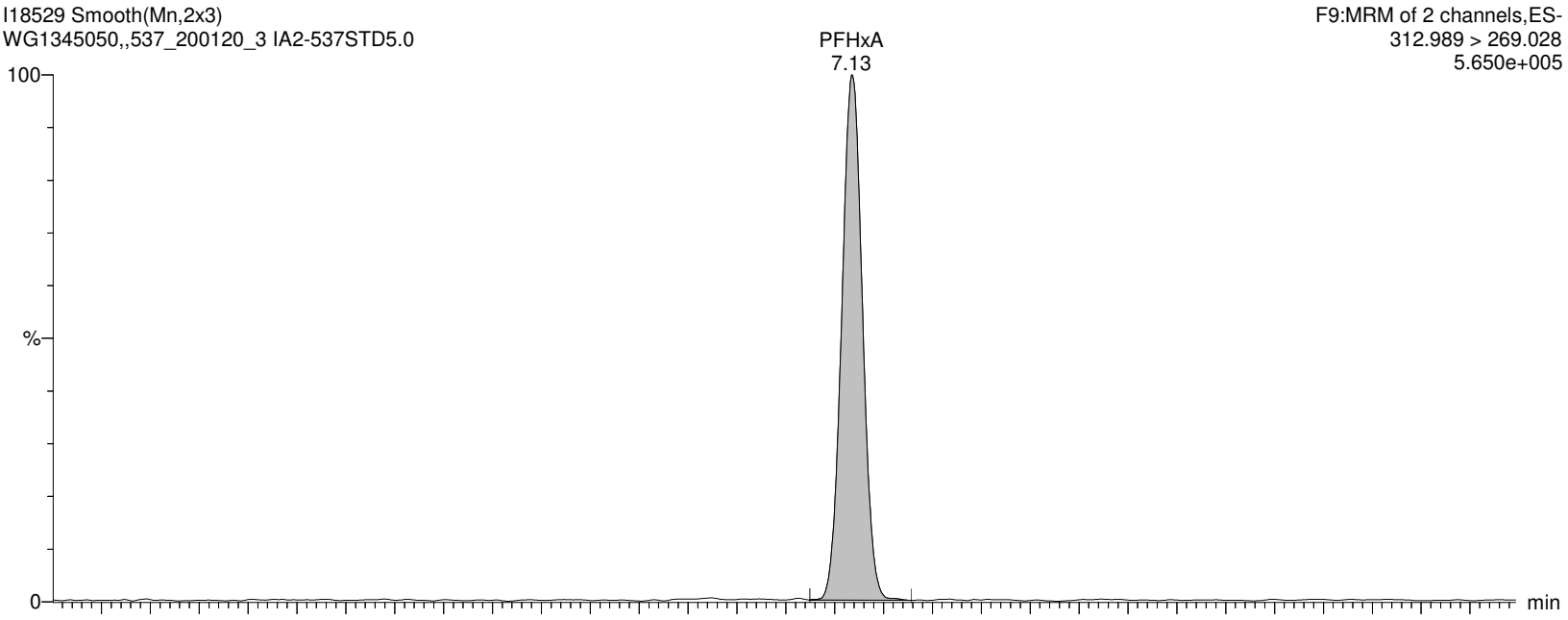
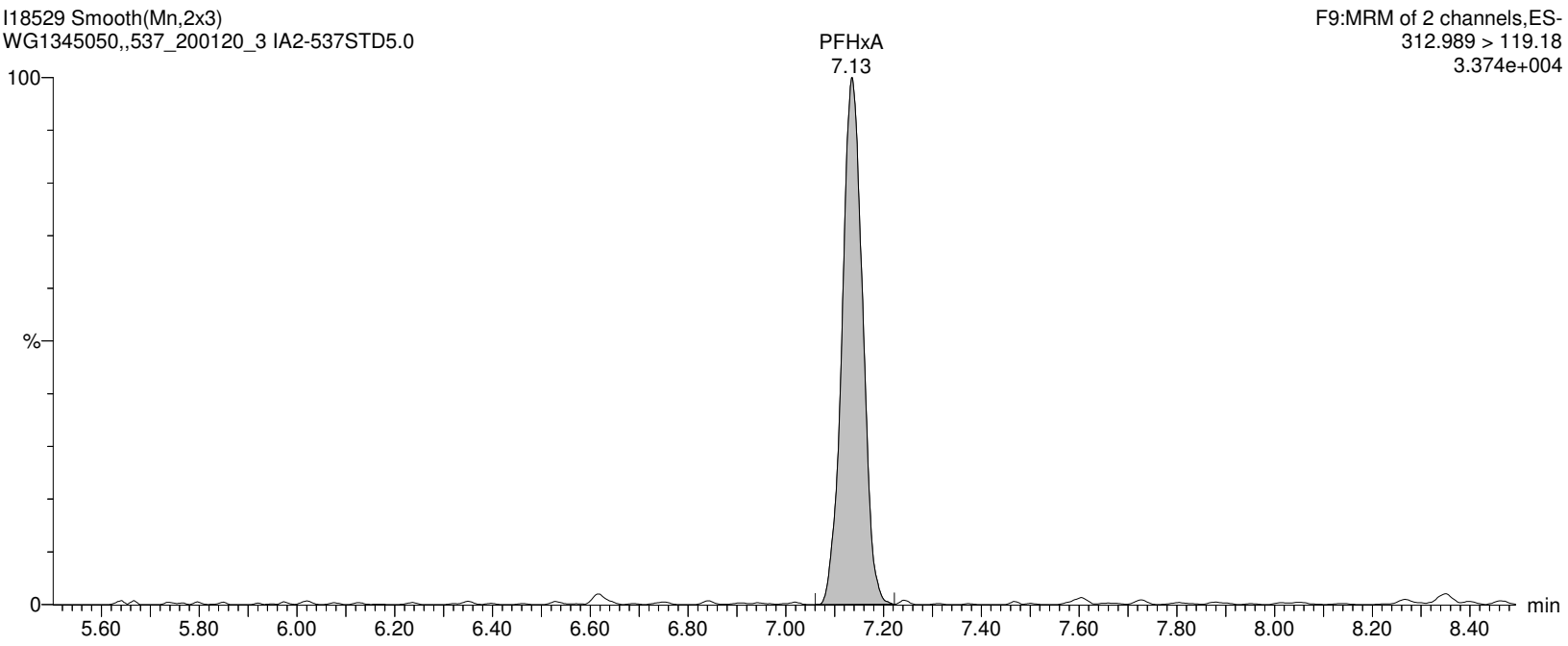
PFHxA





all concentration units in (ng/mL)

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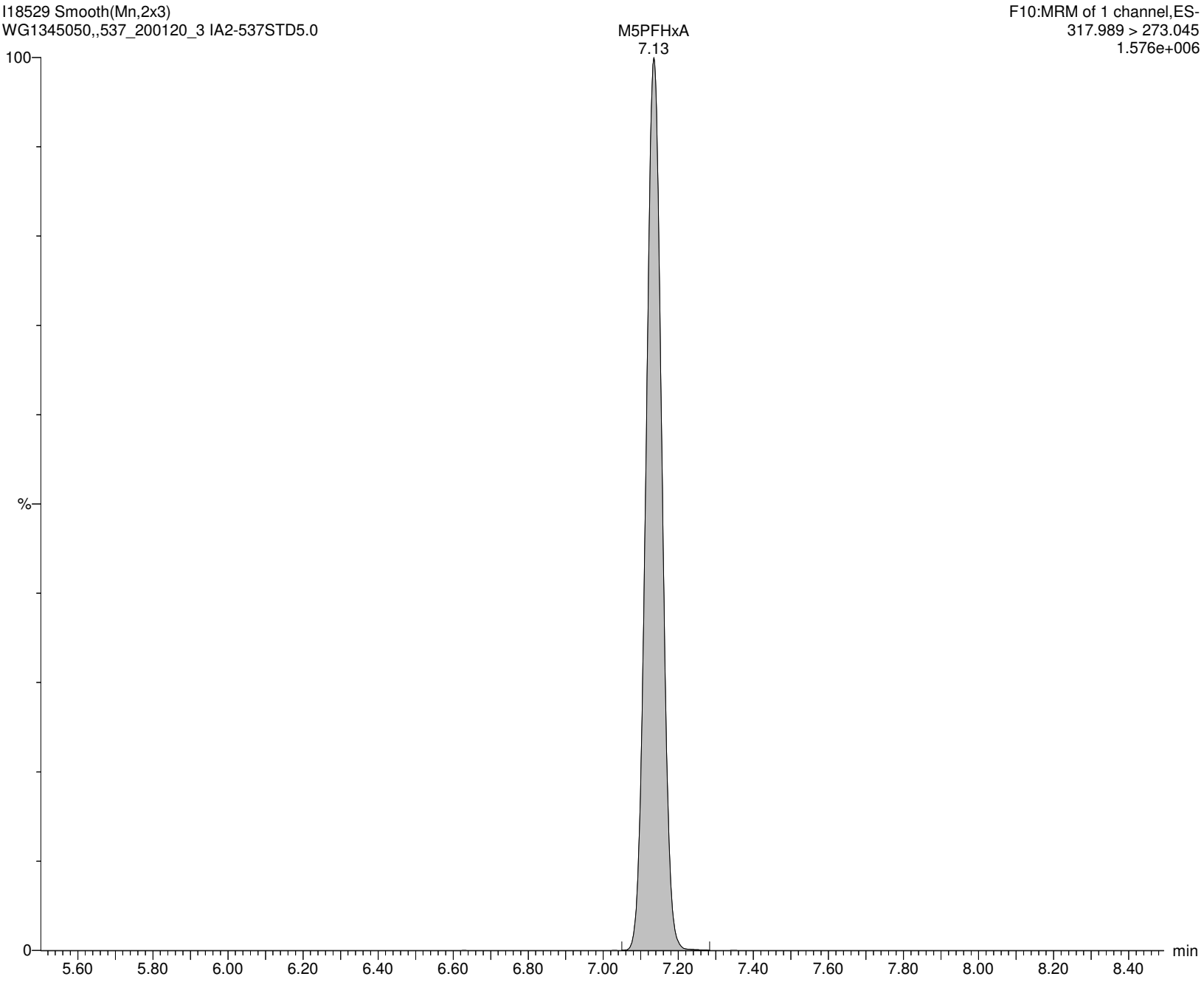

all concentration units in (ng/mL)

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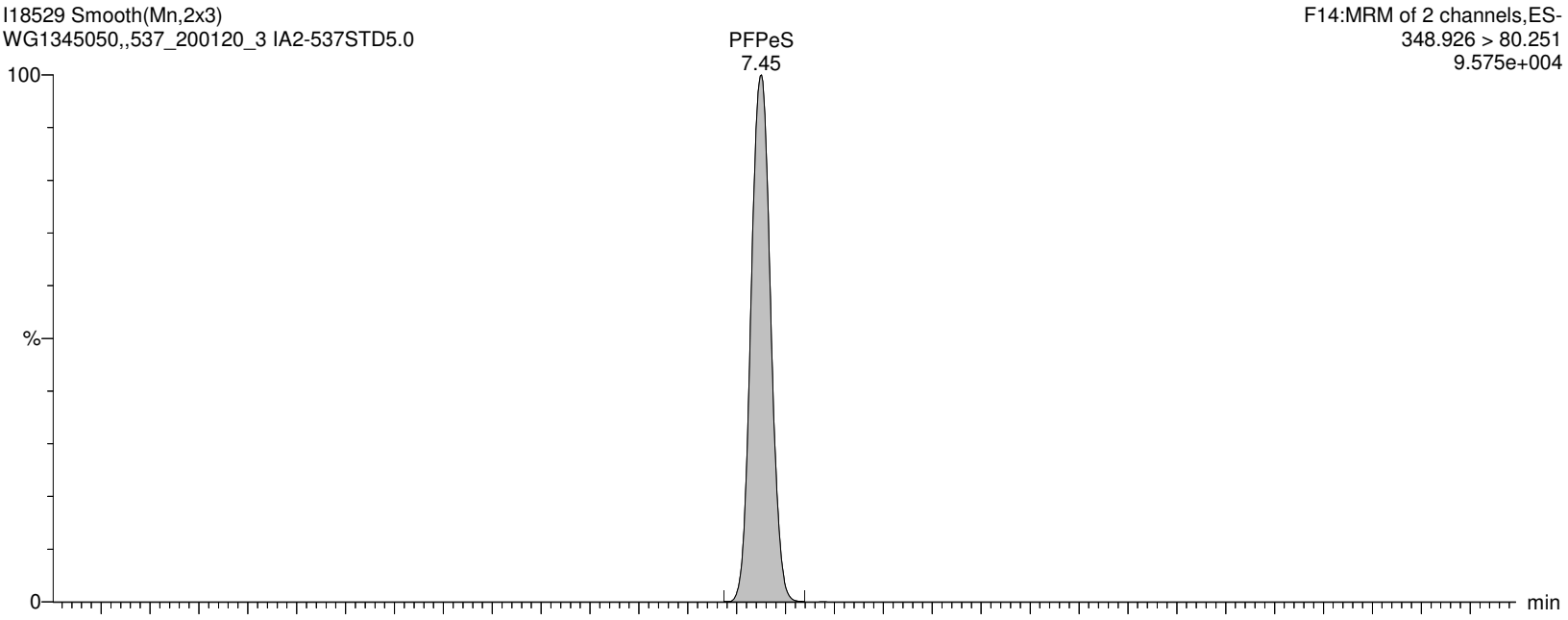

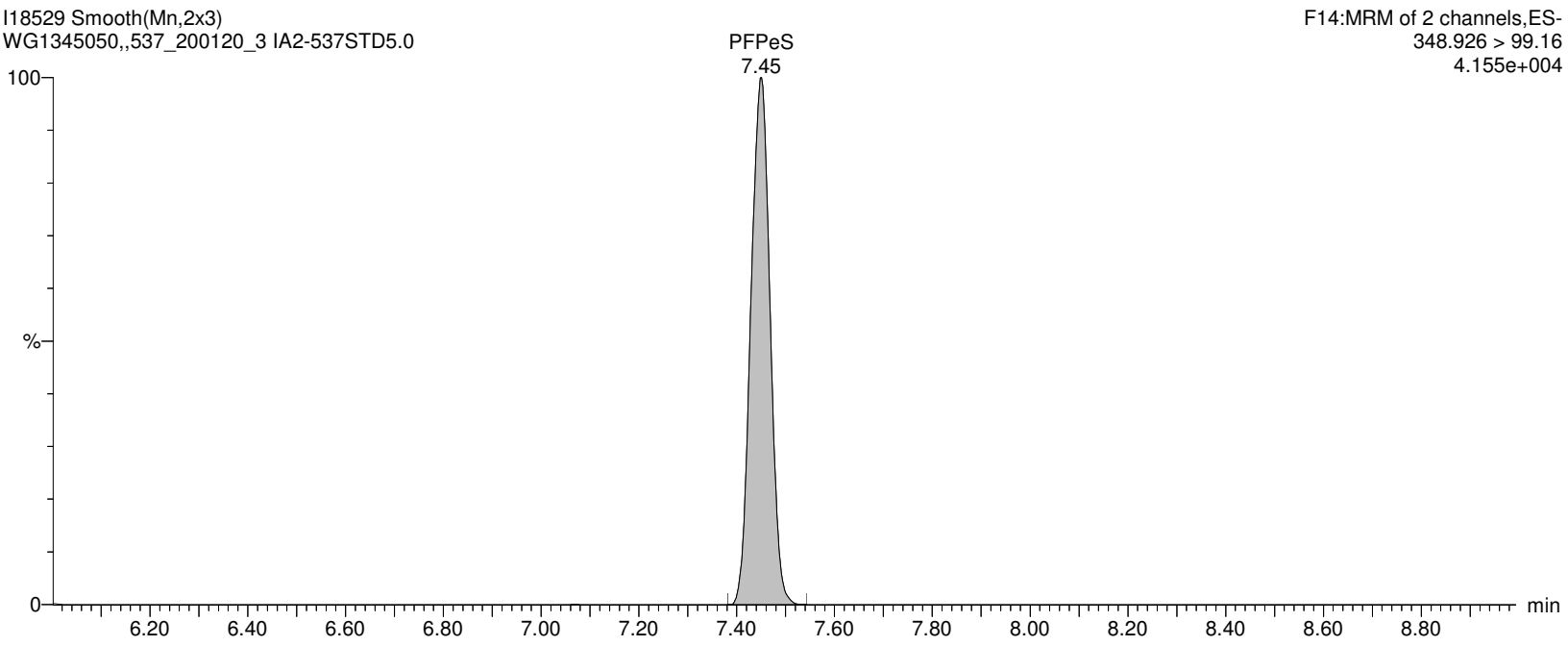

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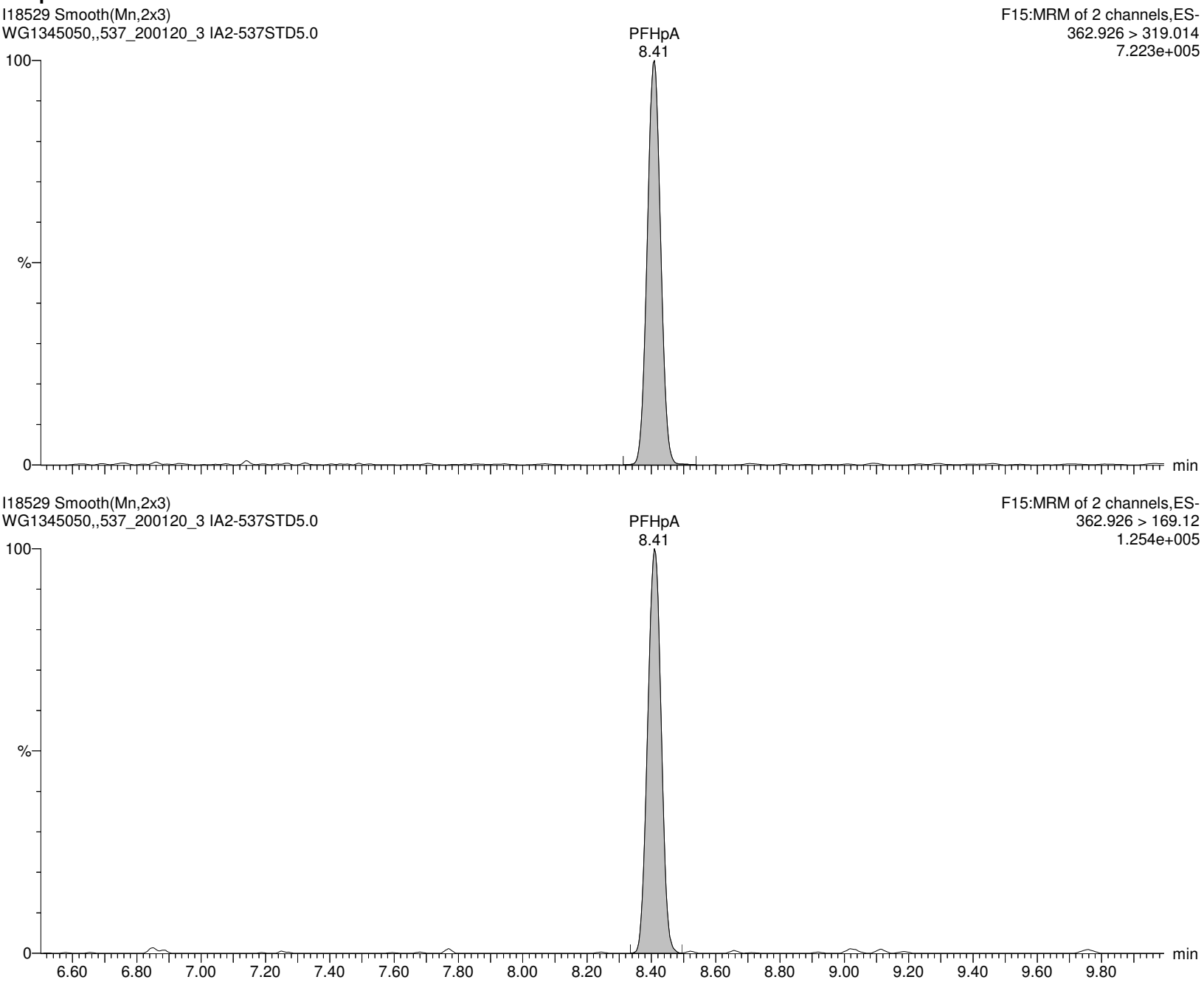
PFHpA



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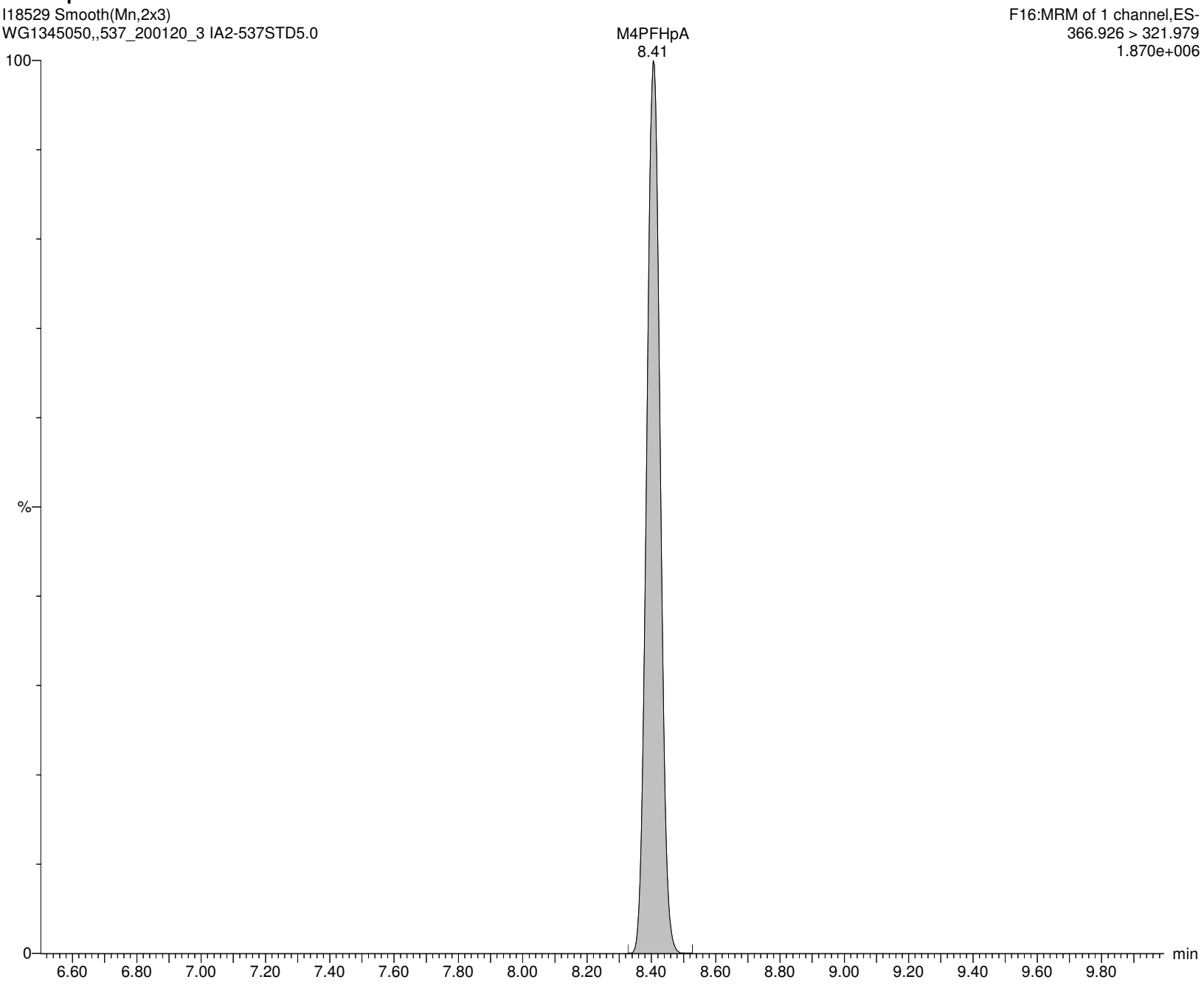

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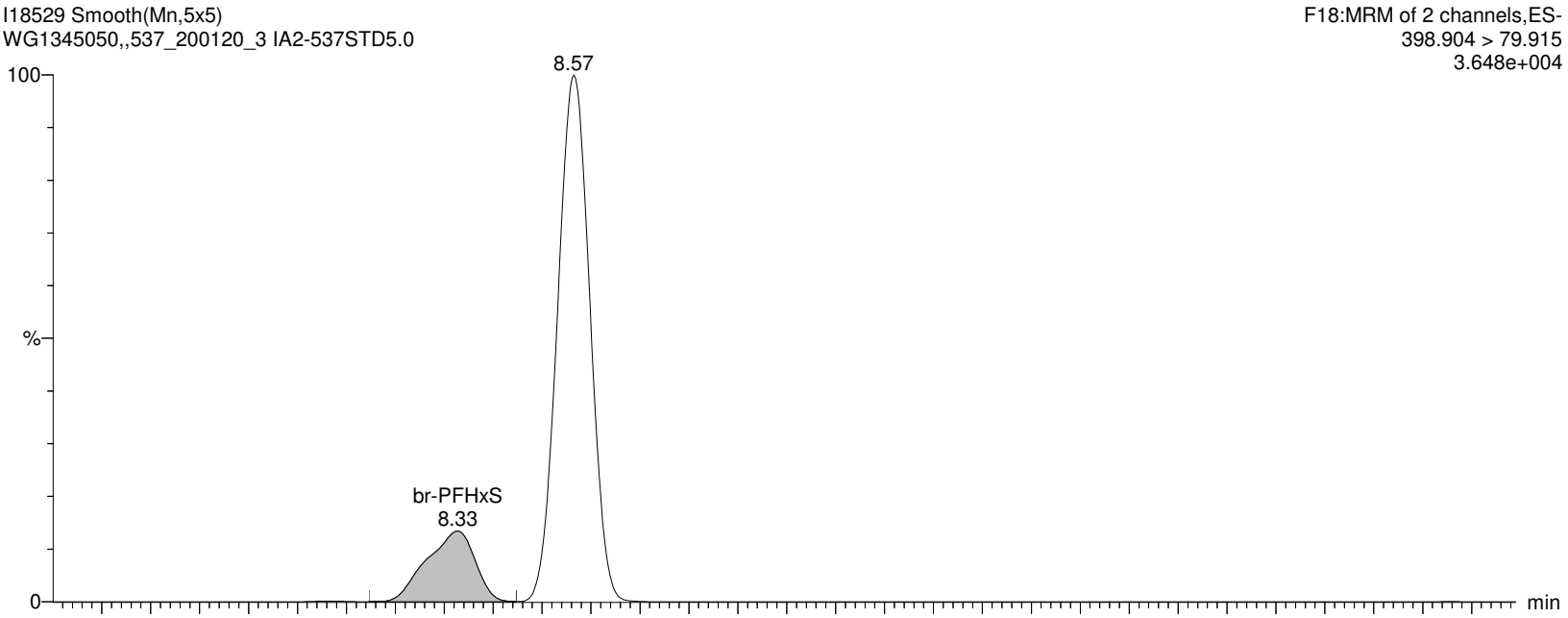

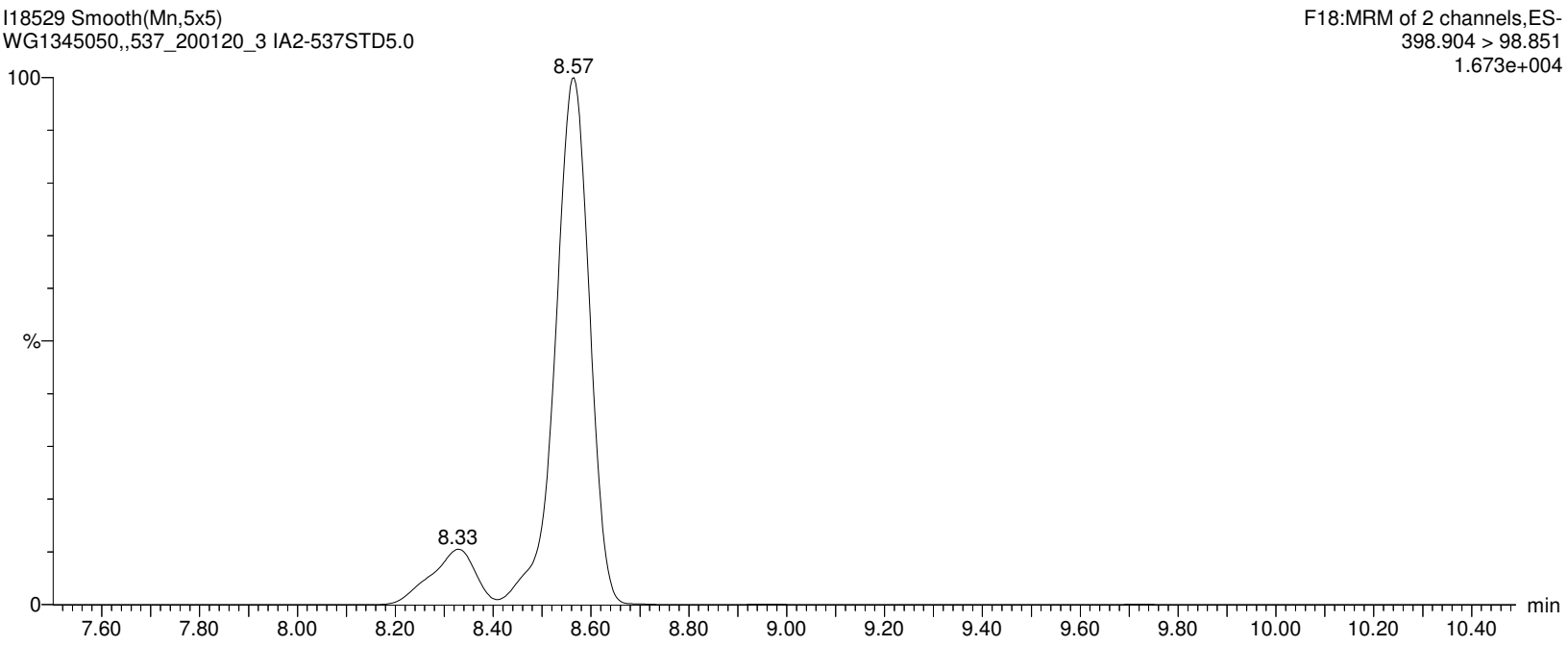

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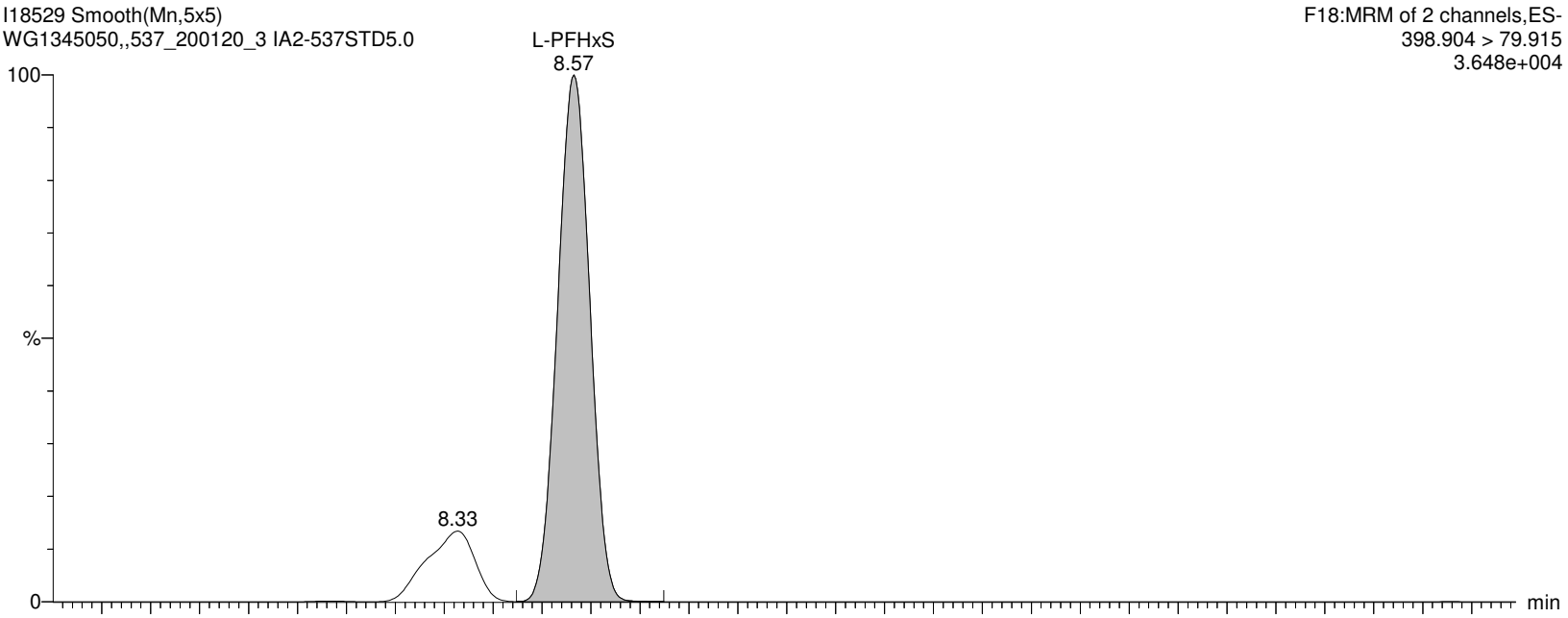

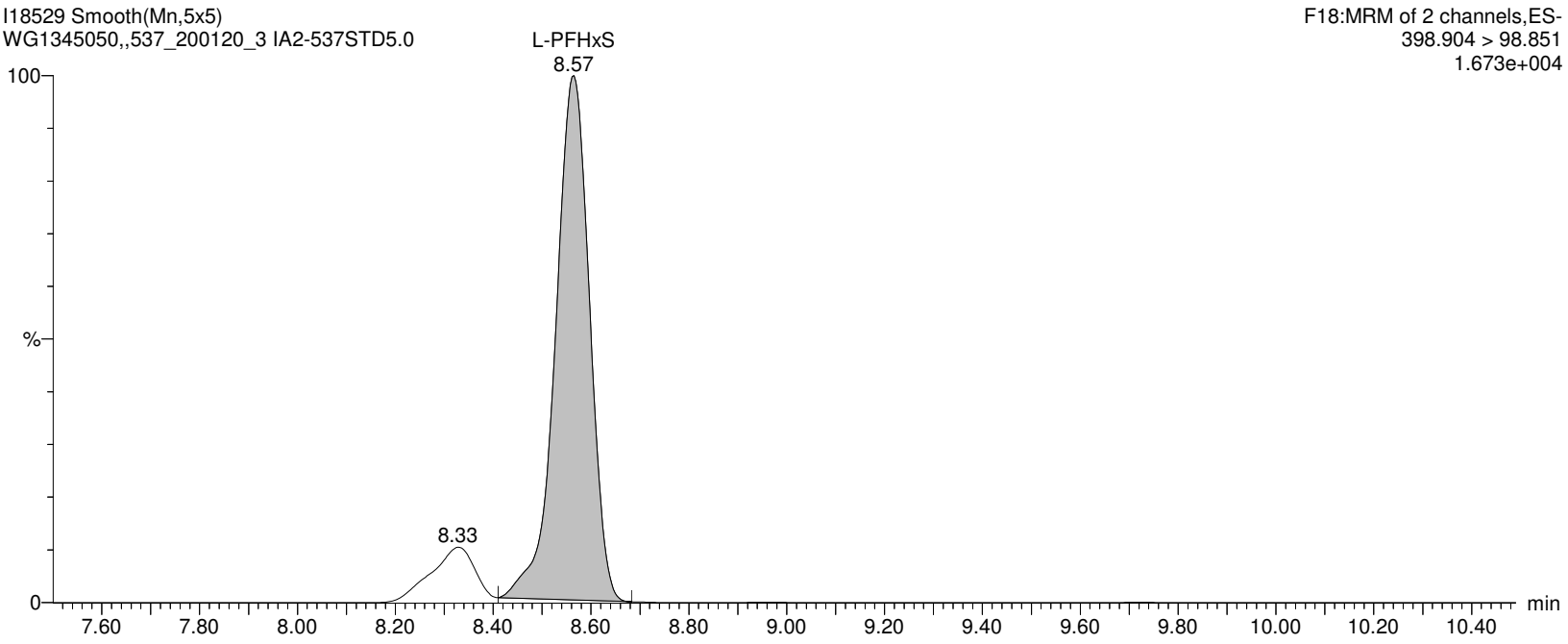

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:47 Eastern Standard Time

Name: I18529
ID: IA2-537STD5.0
Date: 27-Feb-2020
Time: 14:02:18
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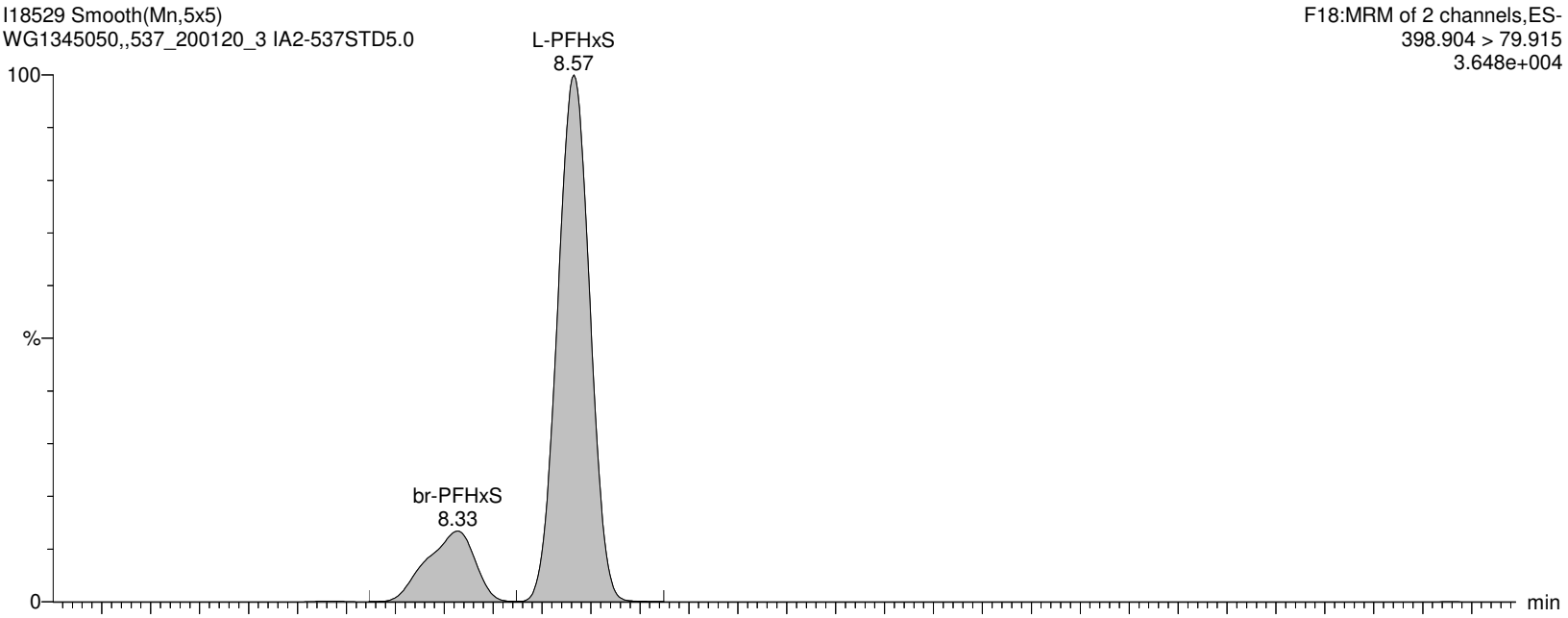

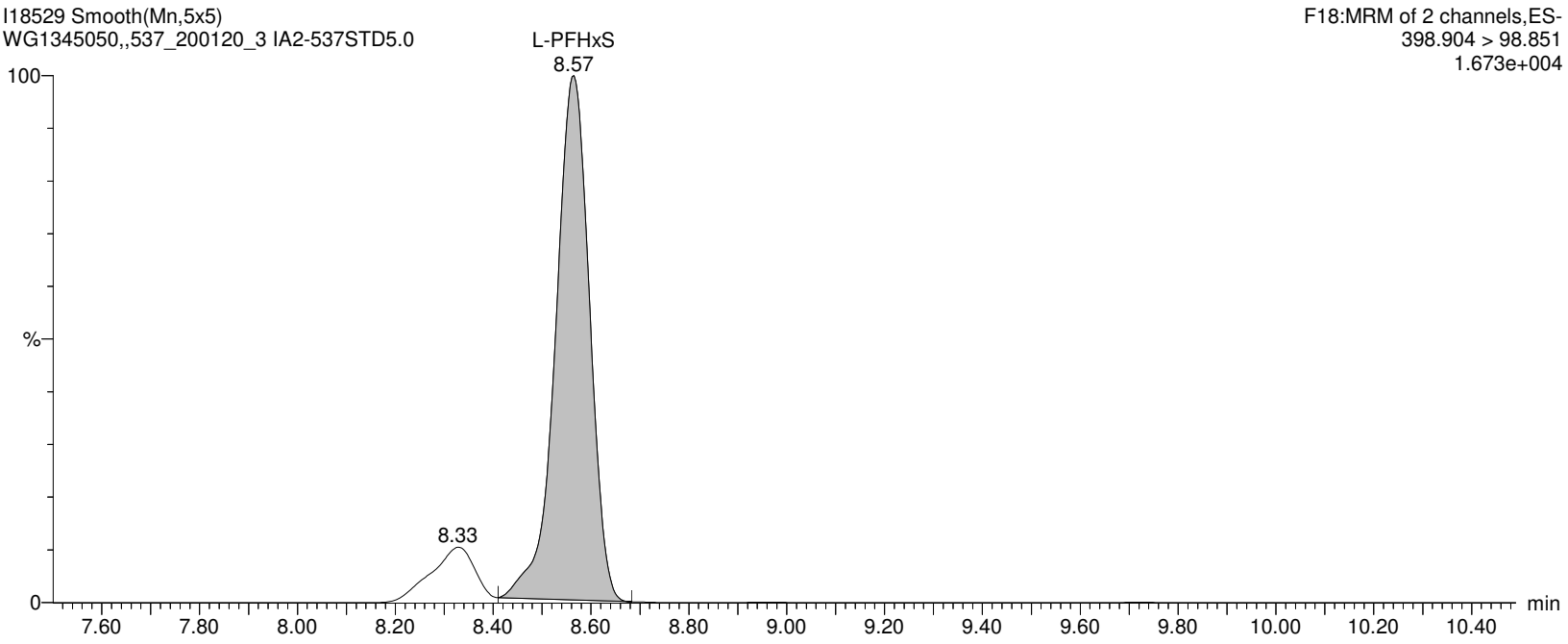

all concentration units in (ng/mL)

Alpha Analytical Inc.
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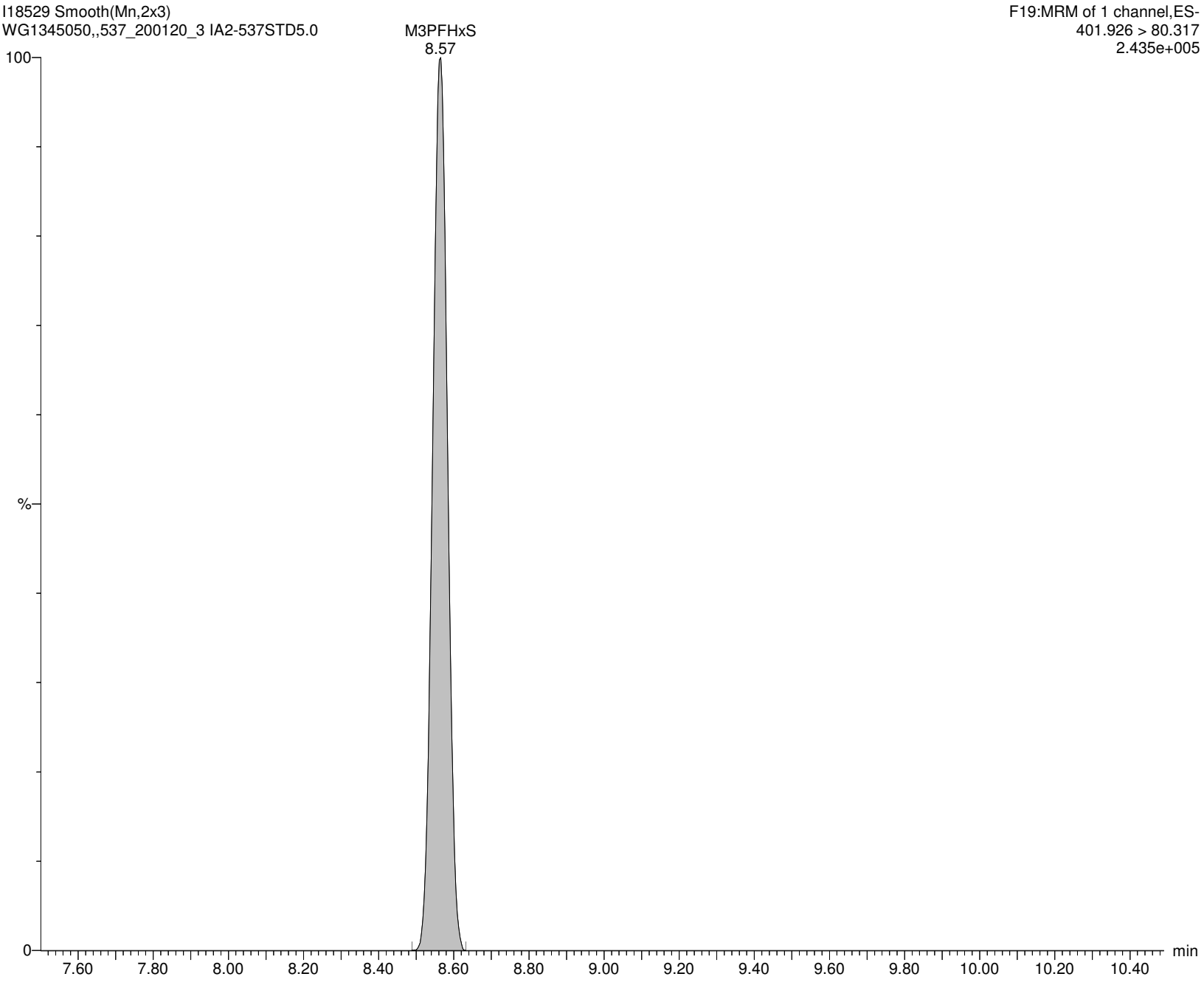

all concentration units in (ng/mL)

Alpha Analytical Inc.
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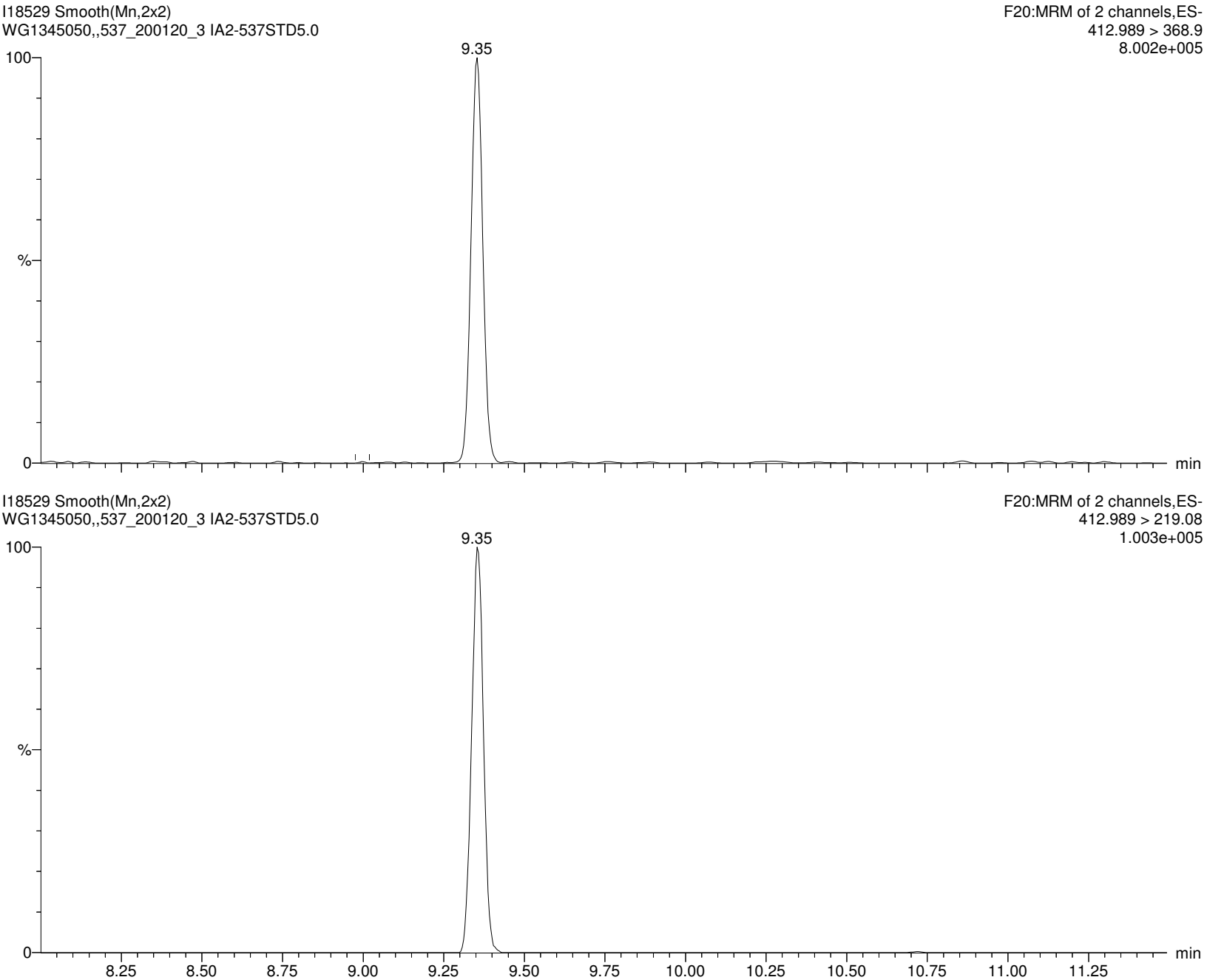

all concentration units in (ng/mL)

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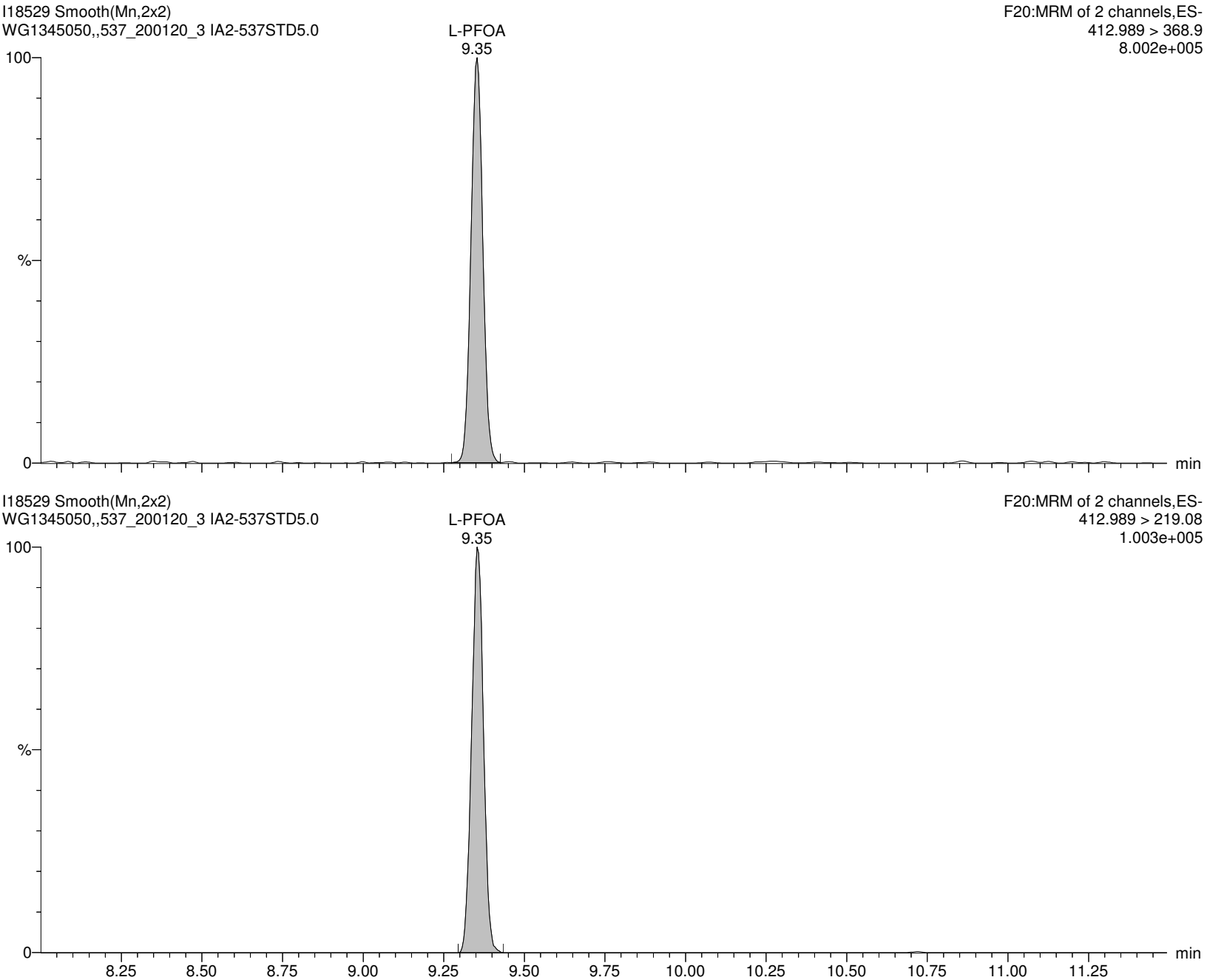

all concentration units in (ng/mL)

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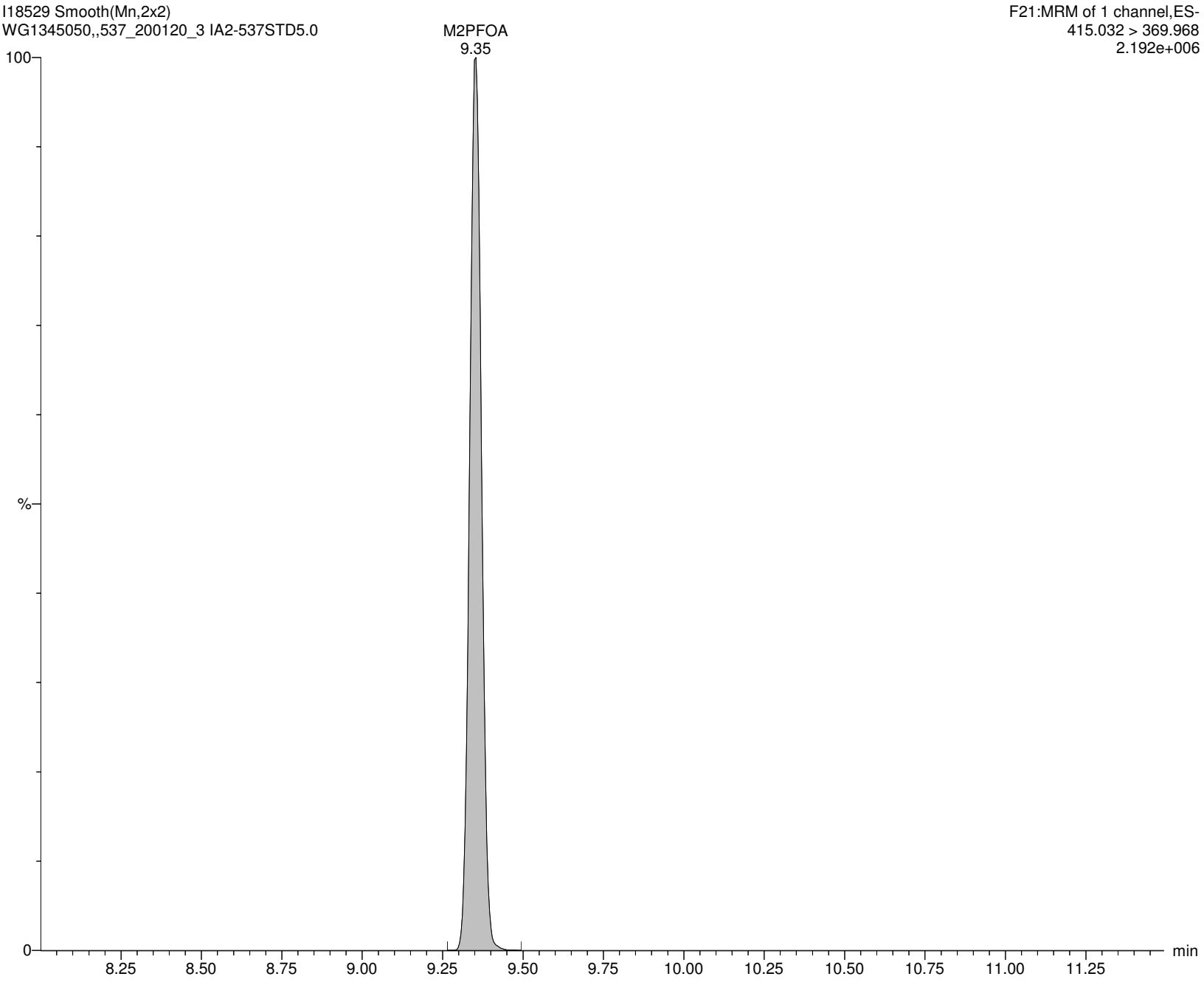

all concentration units in (ng/mL)

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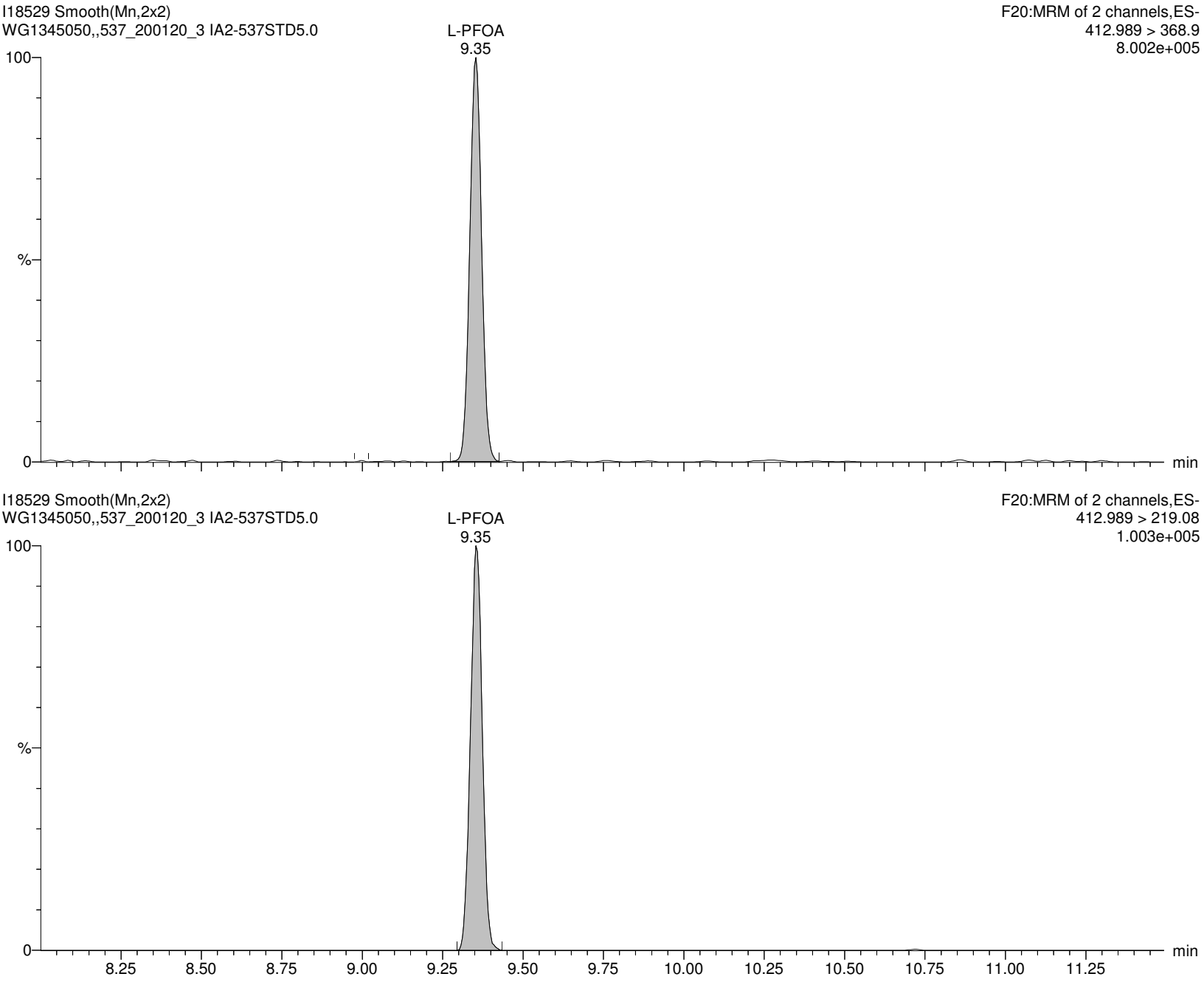

all concentration units in (ng/mL)

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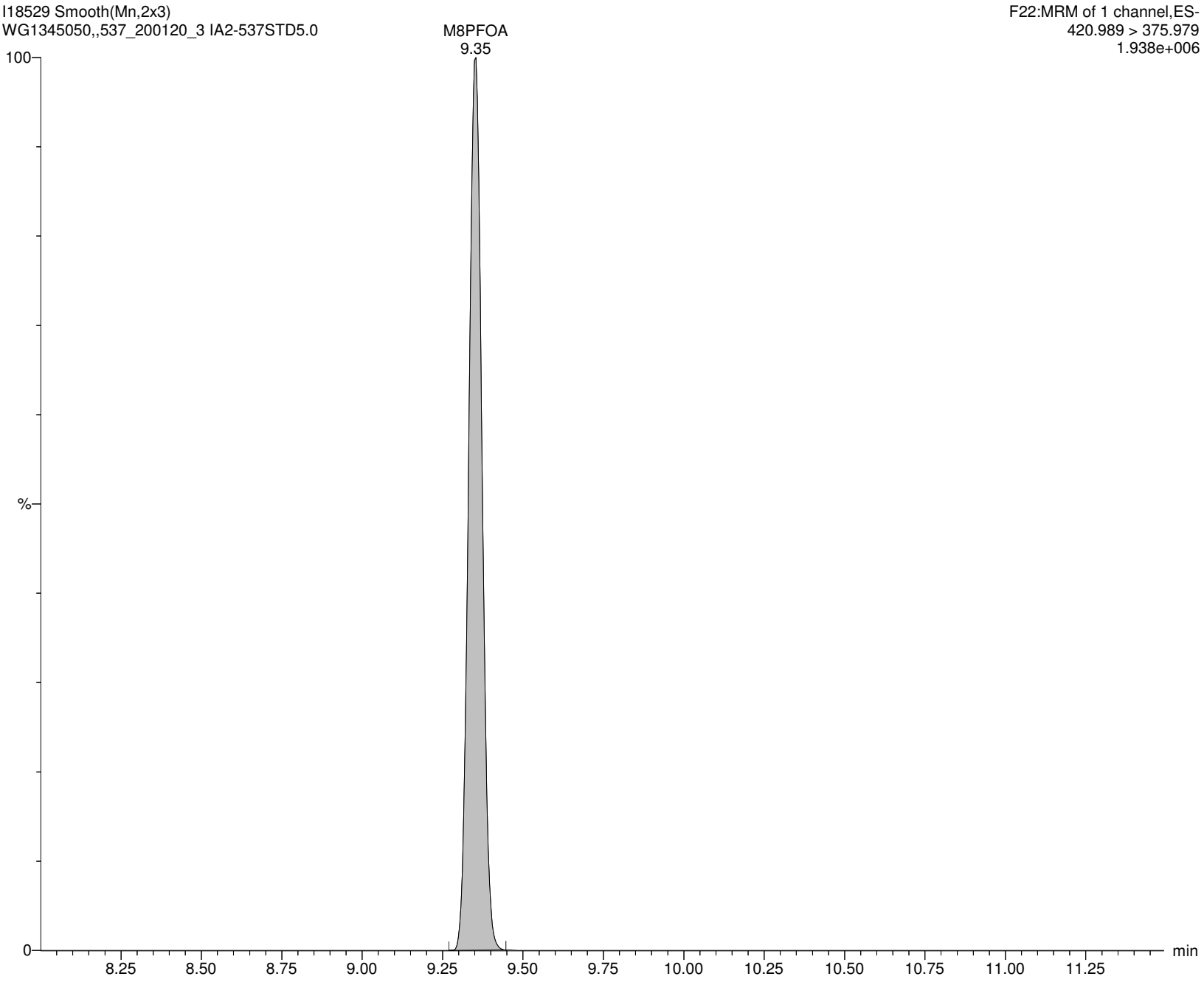

all concentration units in (ng/mL)

Alpha Analytical Inc.
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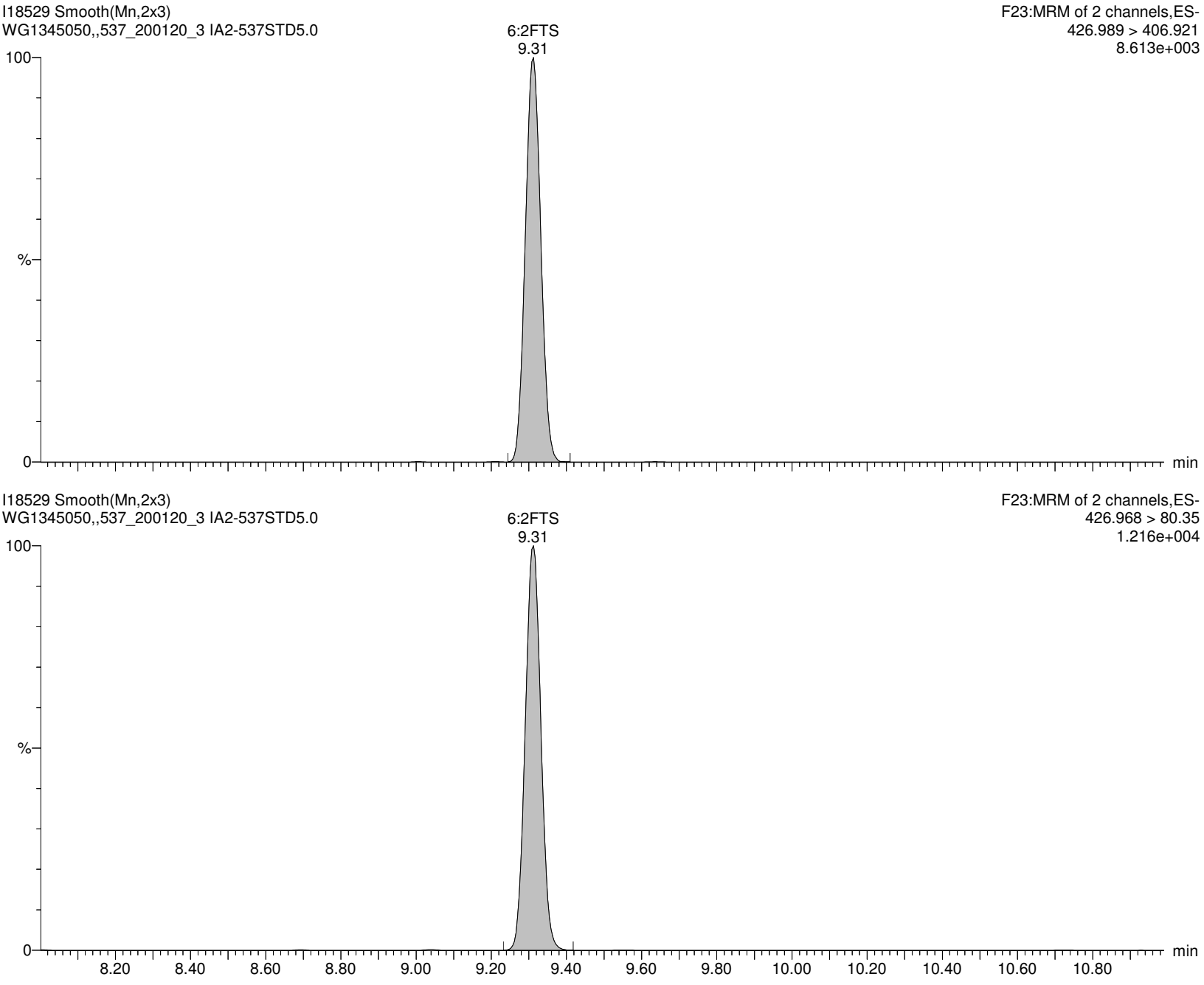

all concentration units in (ng/mL)

Alpha Analytical Inc.
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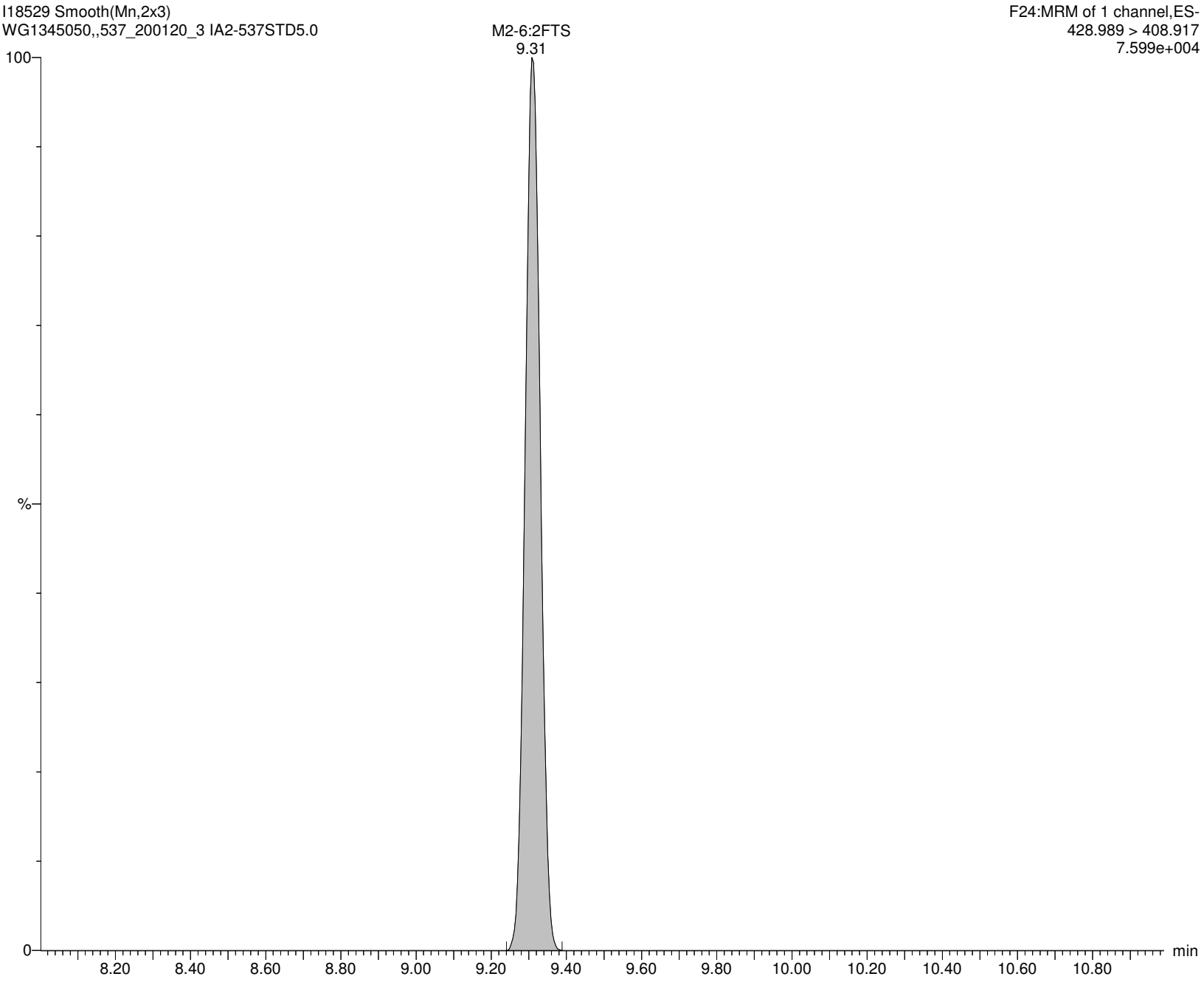

all concentration units in (ng/mL)

Alpha Analytical Inc.
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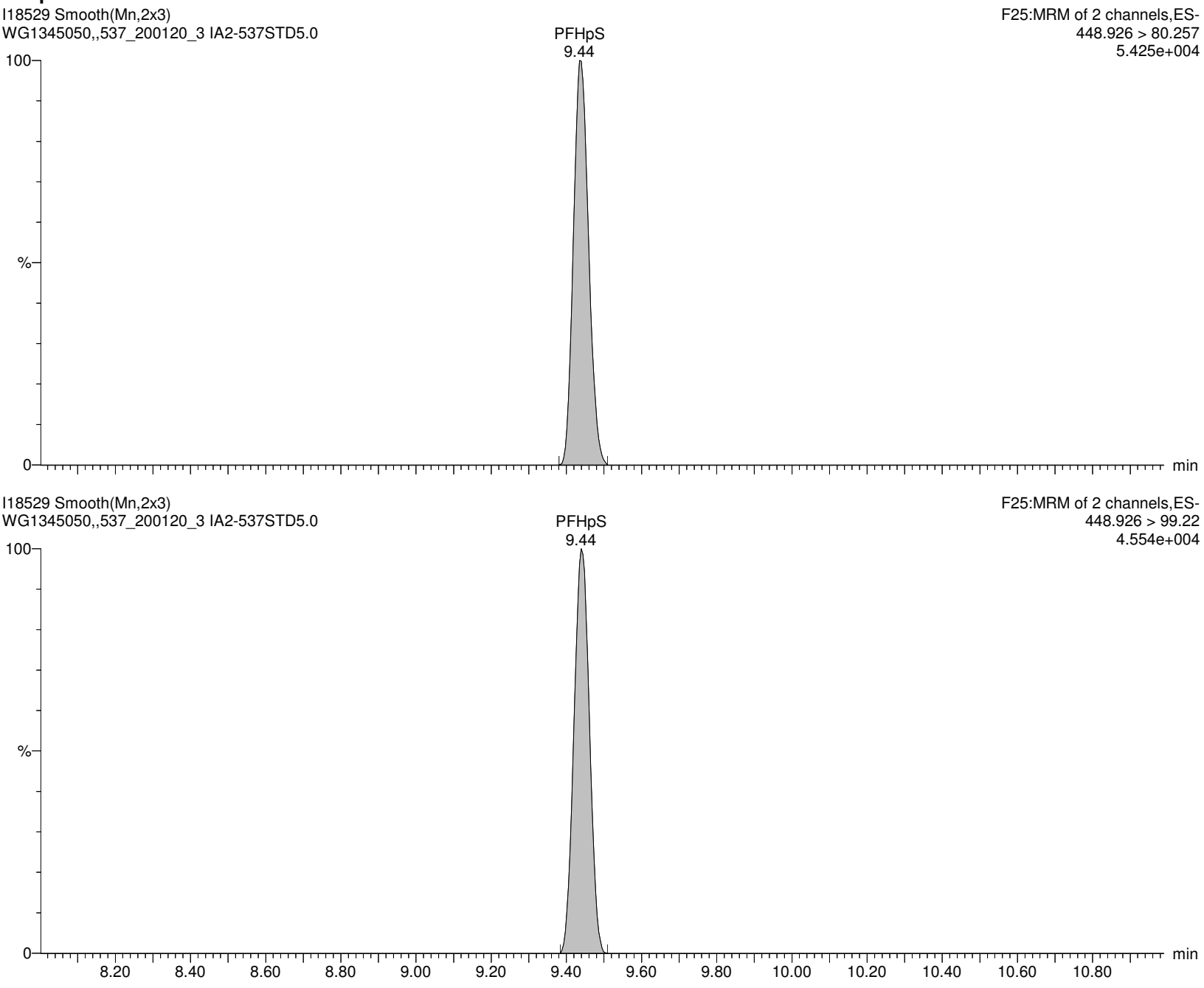

all concentration units in (ng/mL)

Alpha Analytical Inc.
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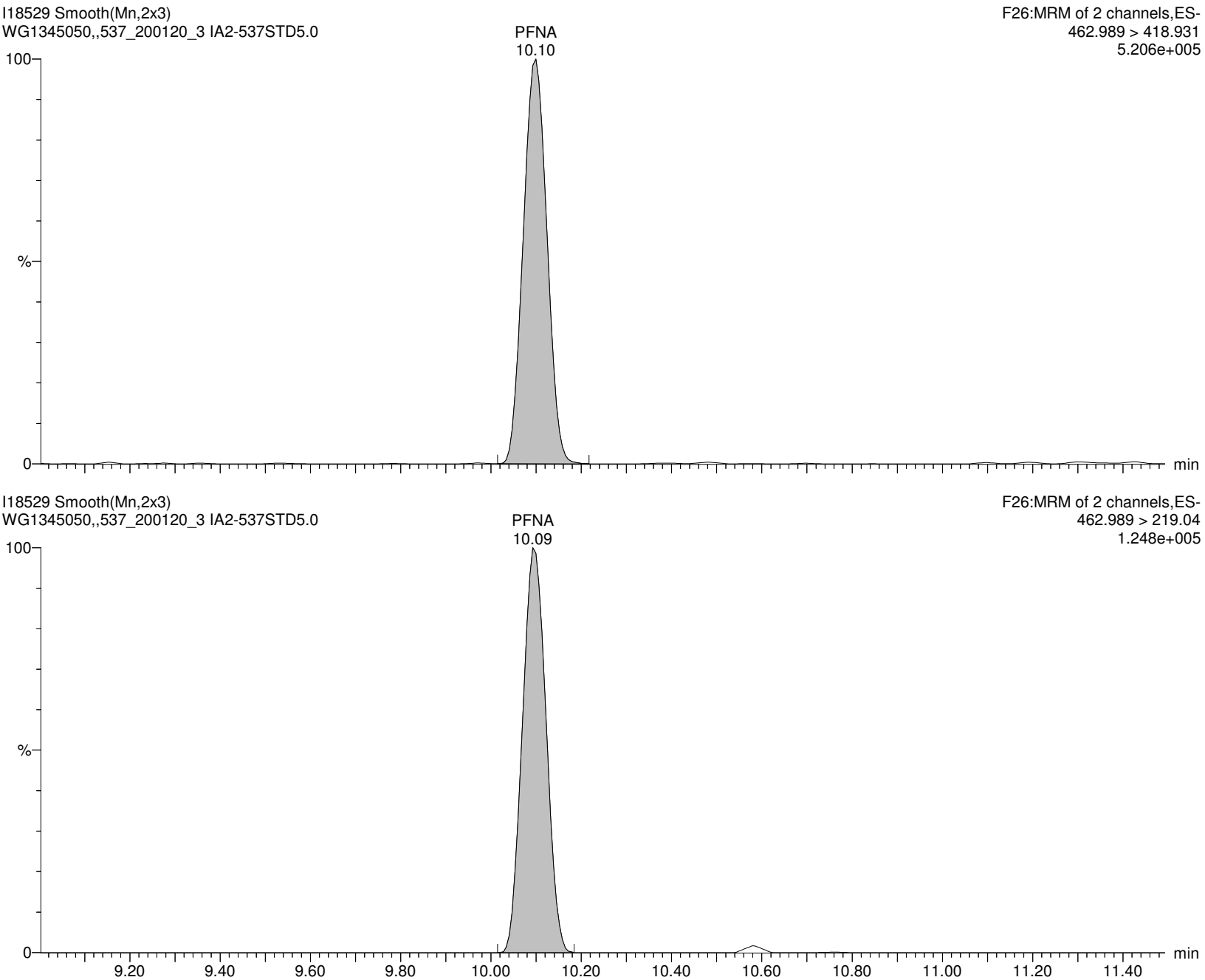

all concentration units in (ng/mL)

Alpha Analytical Inc.
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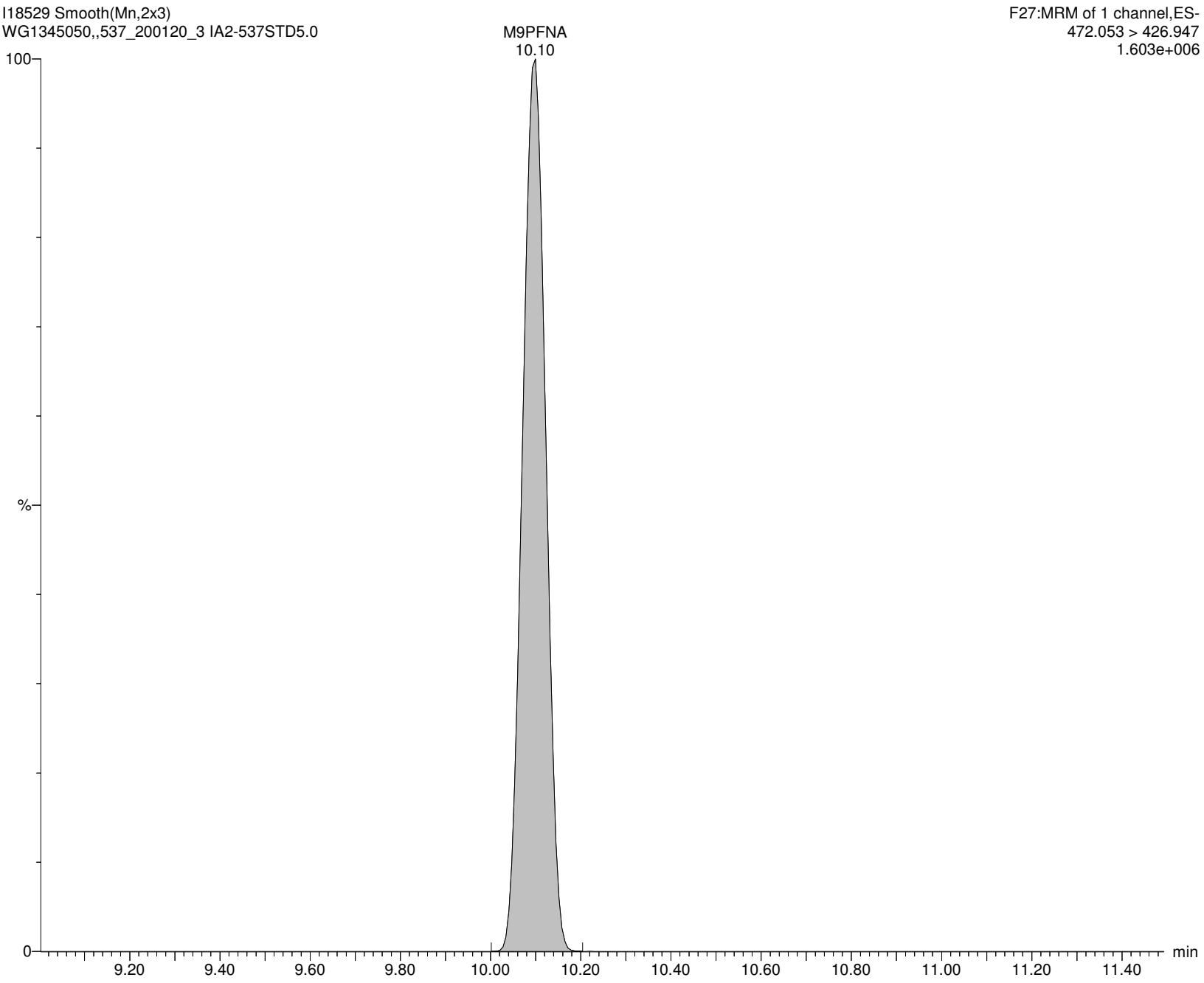

all concentration units in (ng/mL)

Alpha Analytical Inc.
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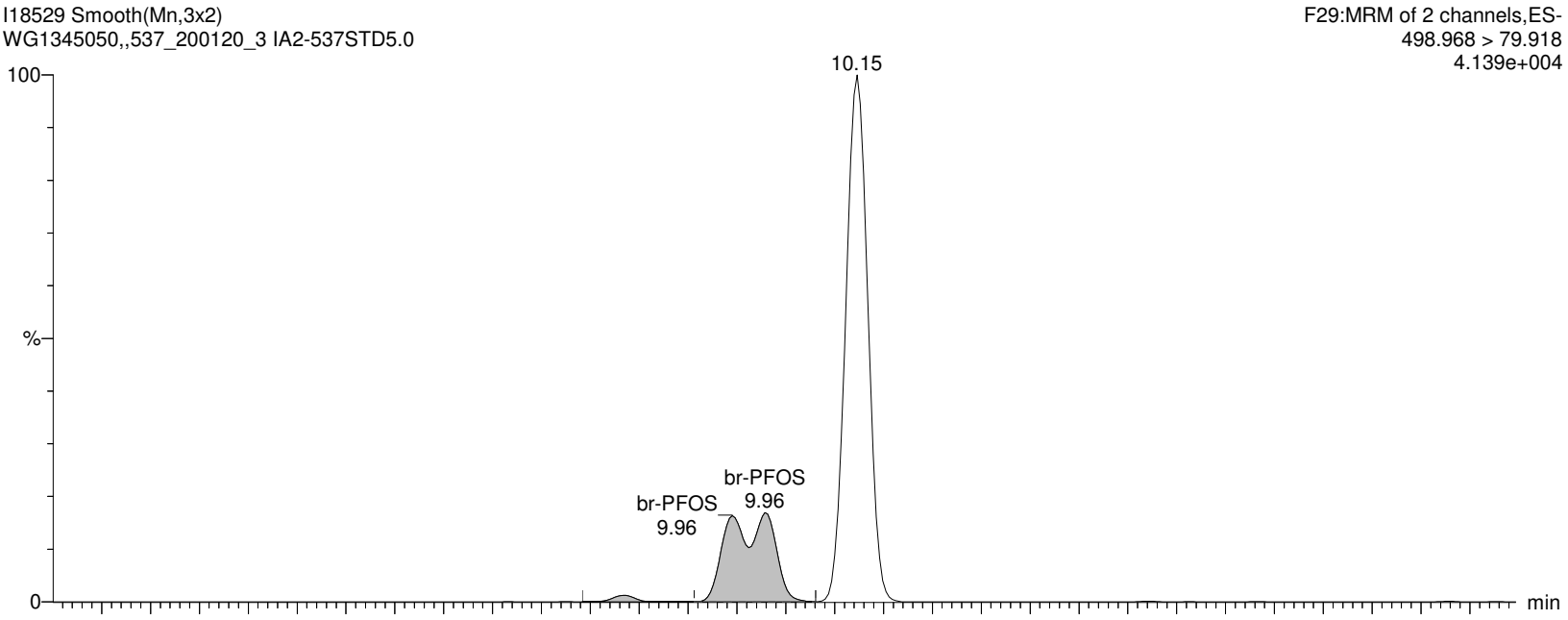

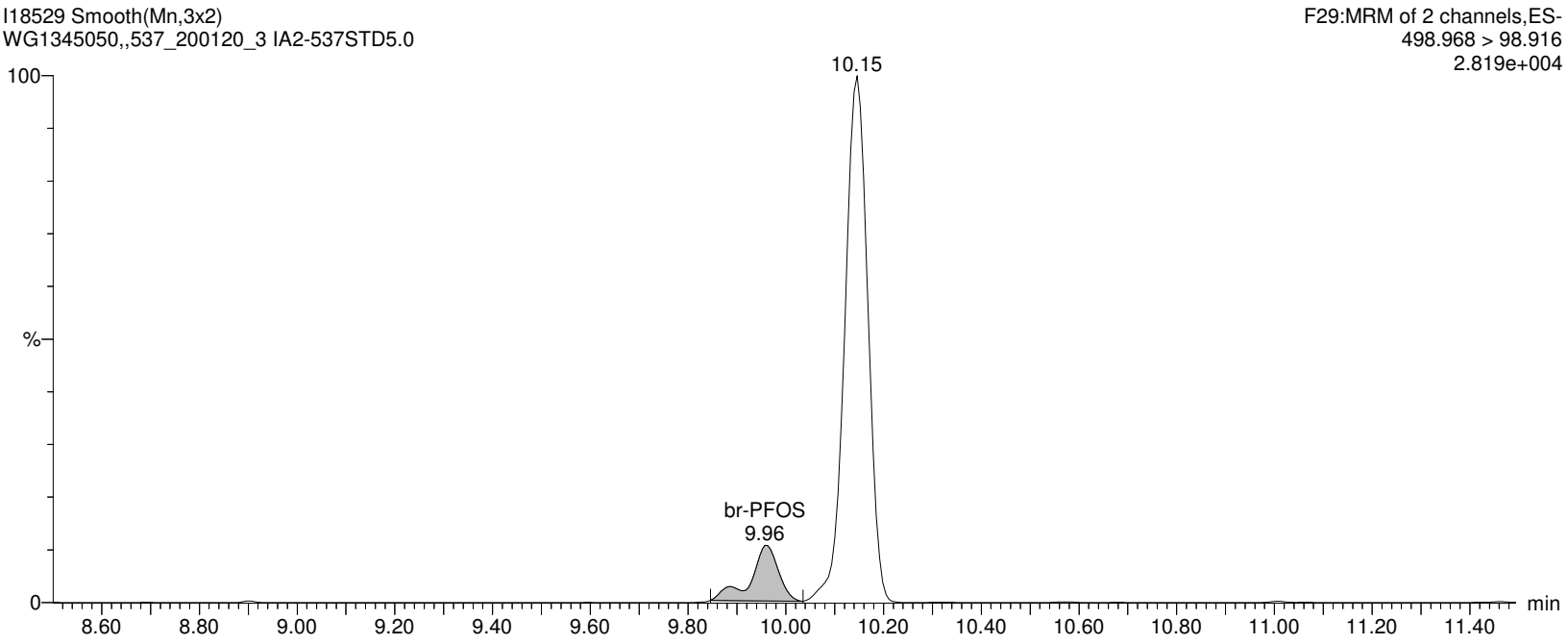

all concentration units in (ng/mL)

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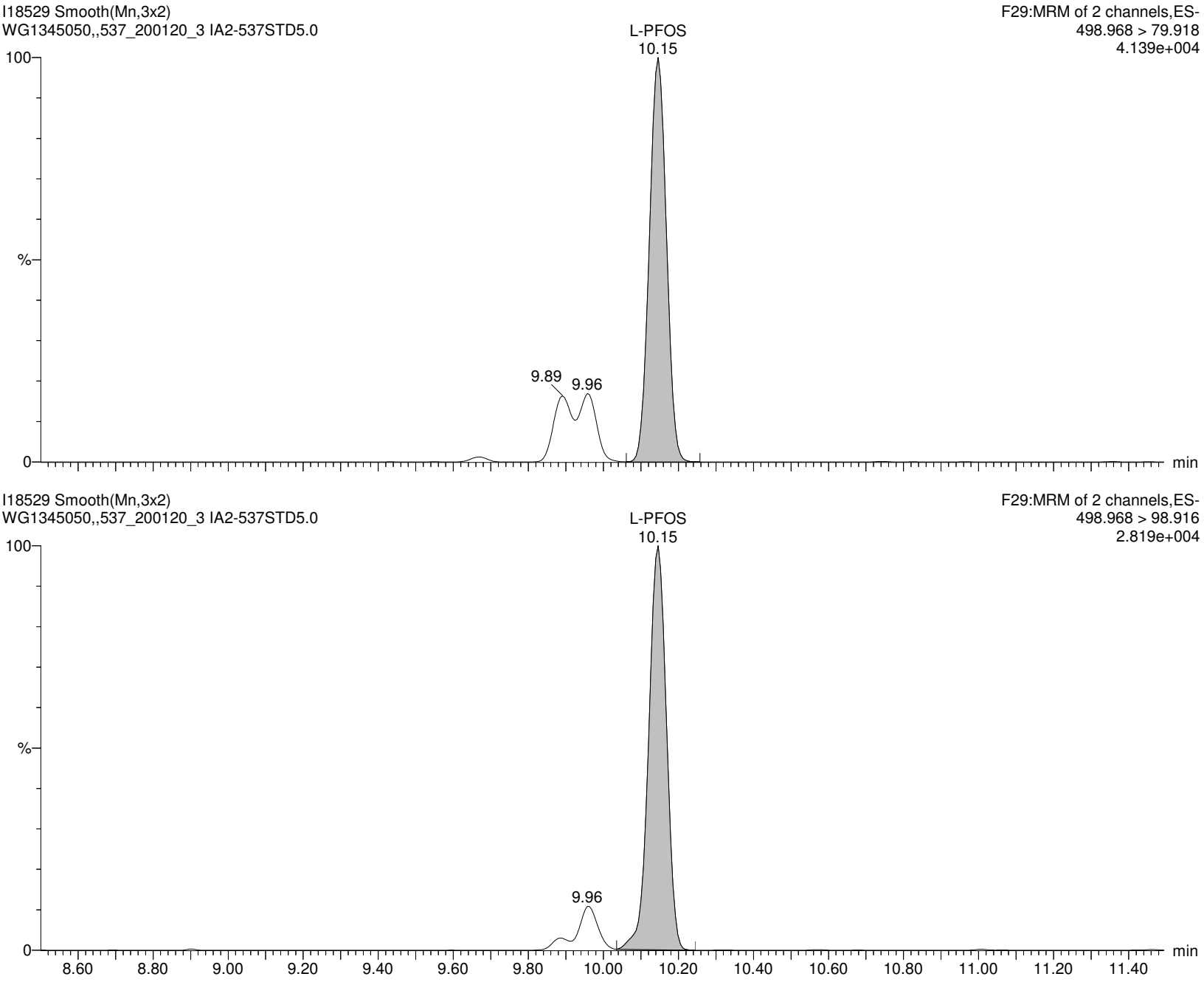
L-PFOS



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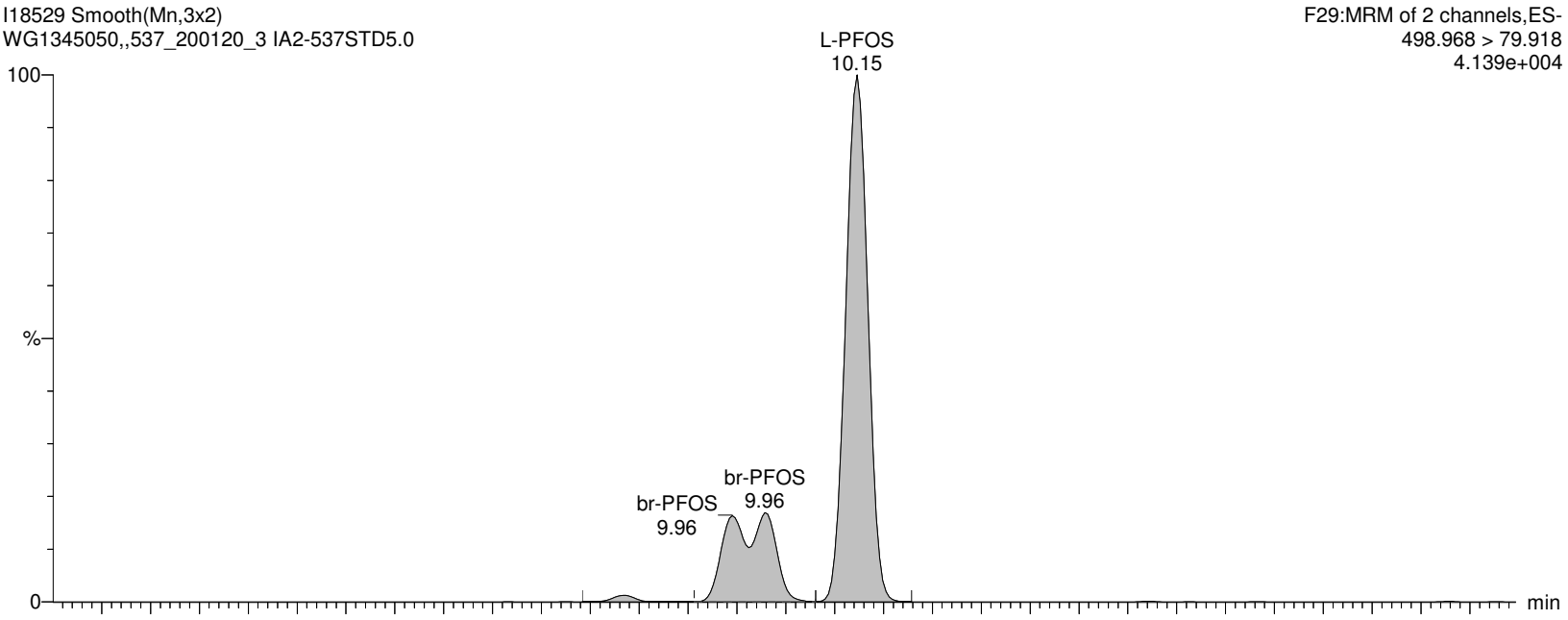

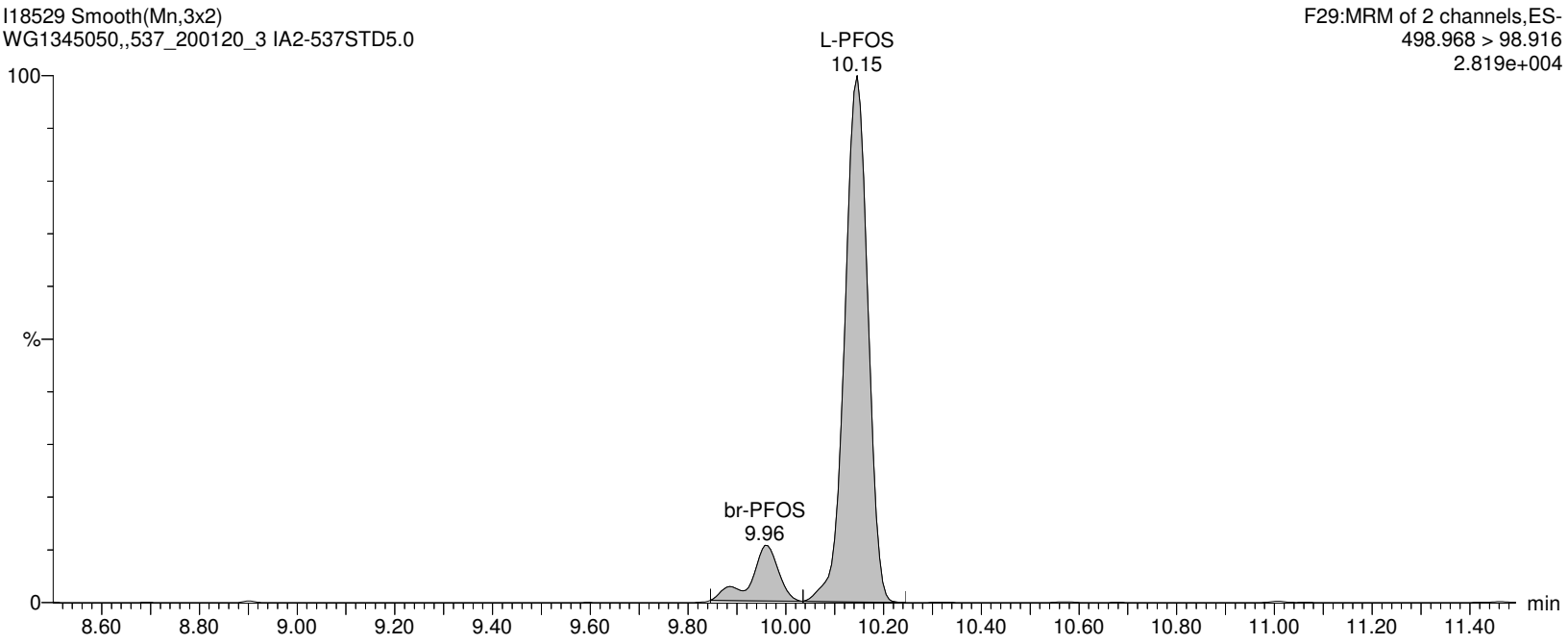

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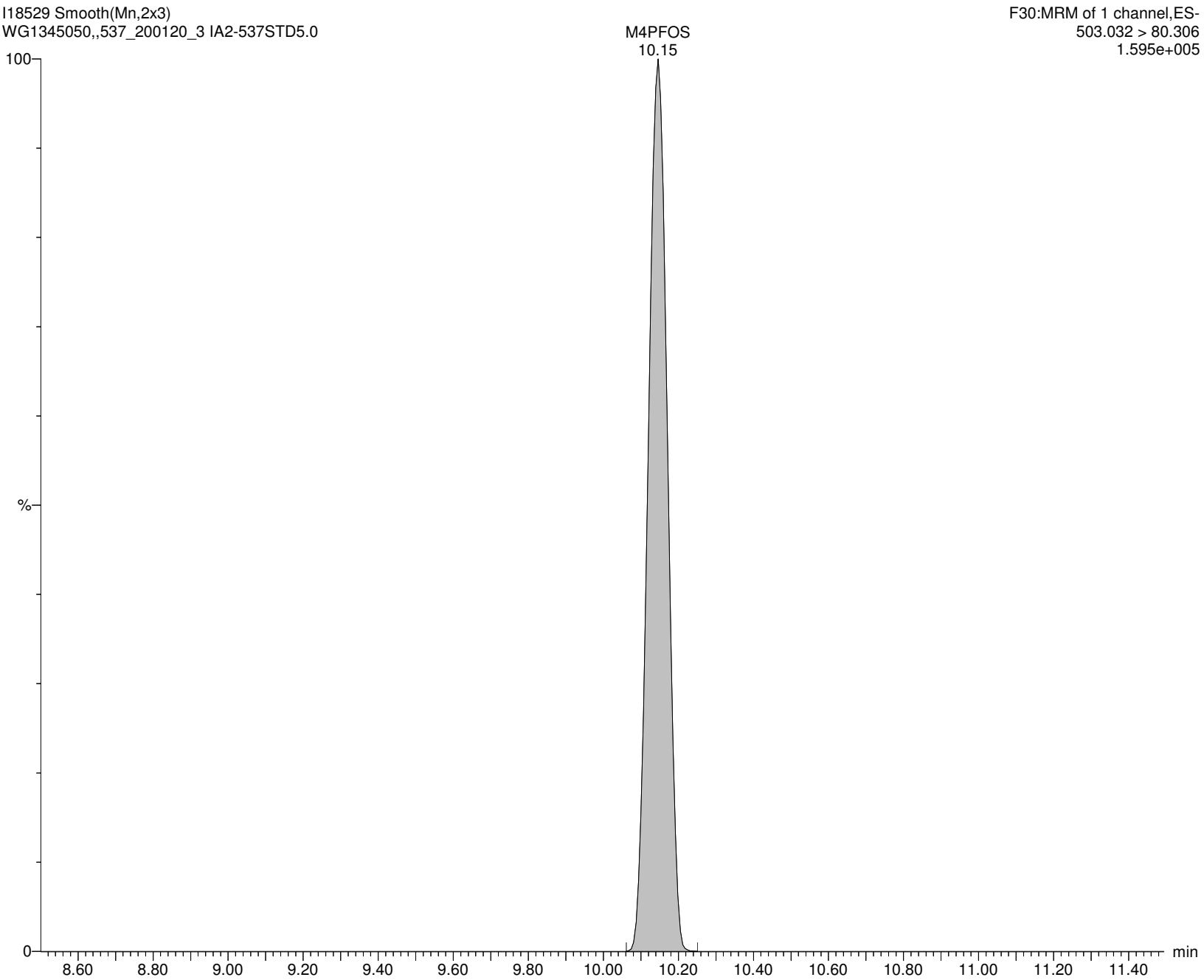

all concentration units in (ng/mL)

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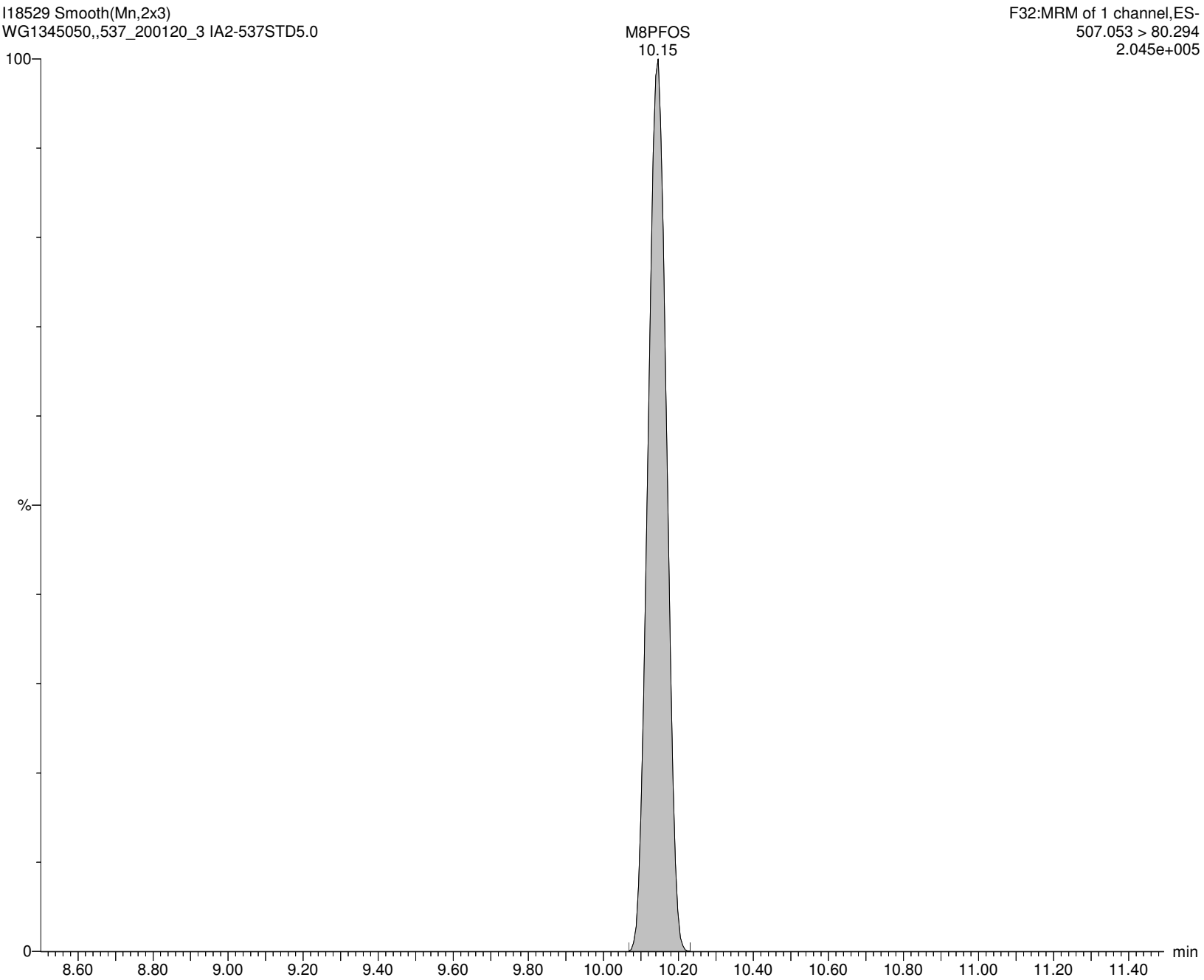

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:47 Eastern Standard Time

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ID: IA2-537STD5.0
Date: 27-Feb-2020
Time: 14:02:18
Description: WG1345050,,537_200120_3
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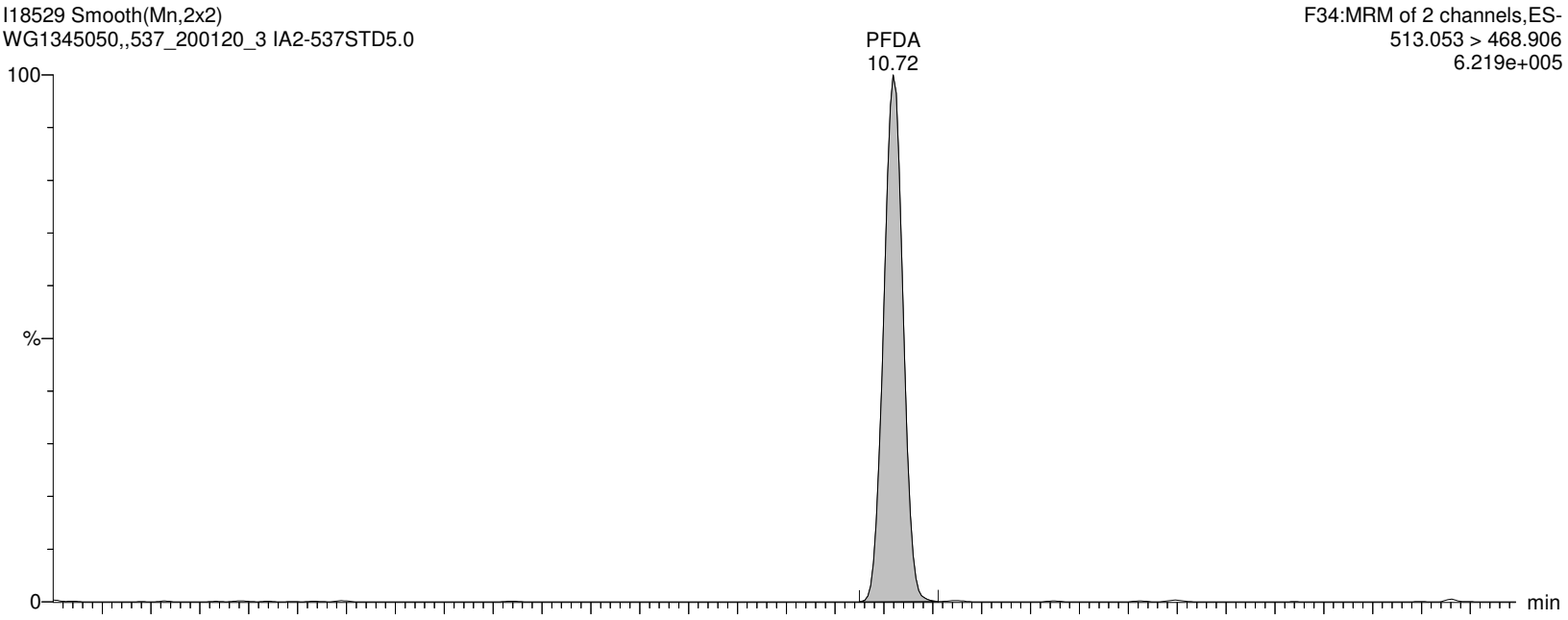

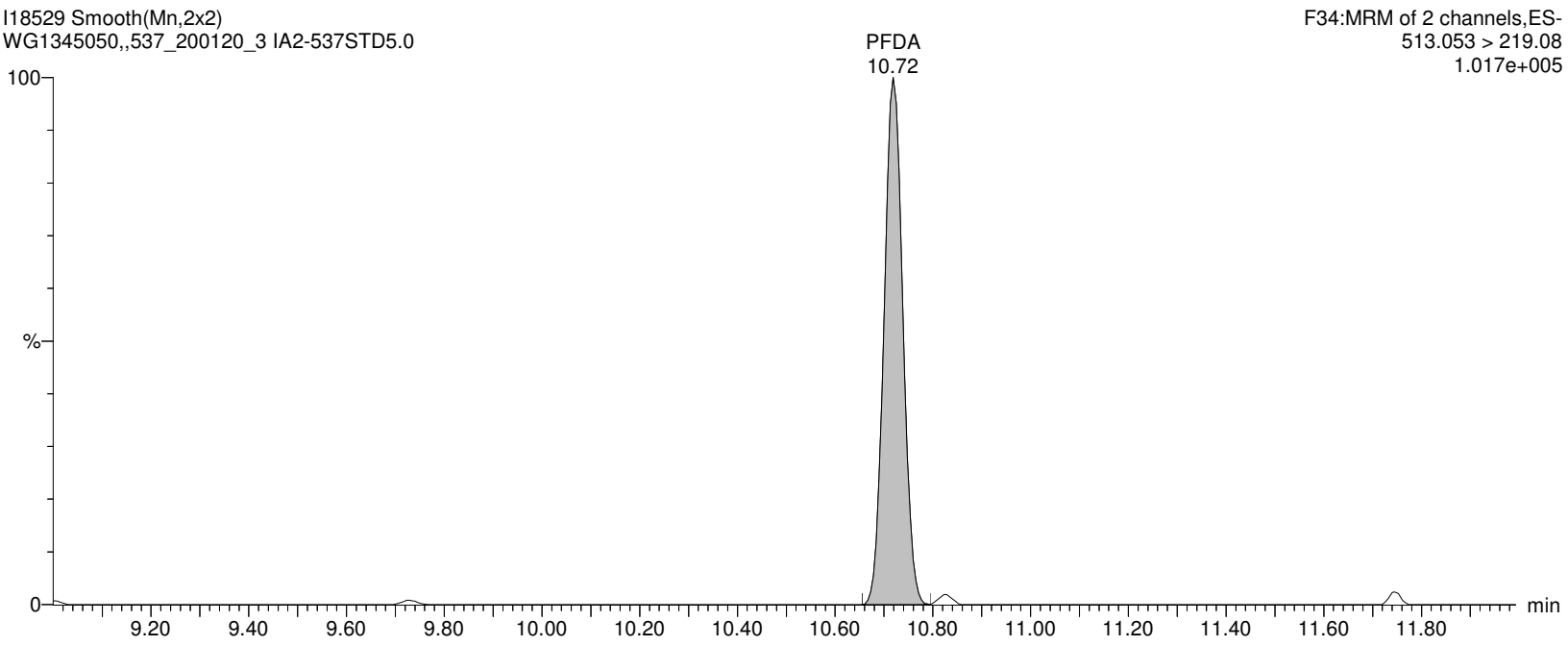

all concentration units in (ng/mL)

Alpha Analytical Inc.
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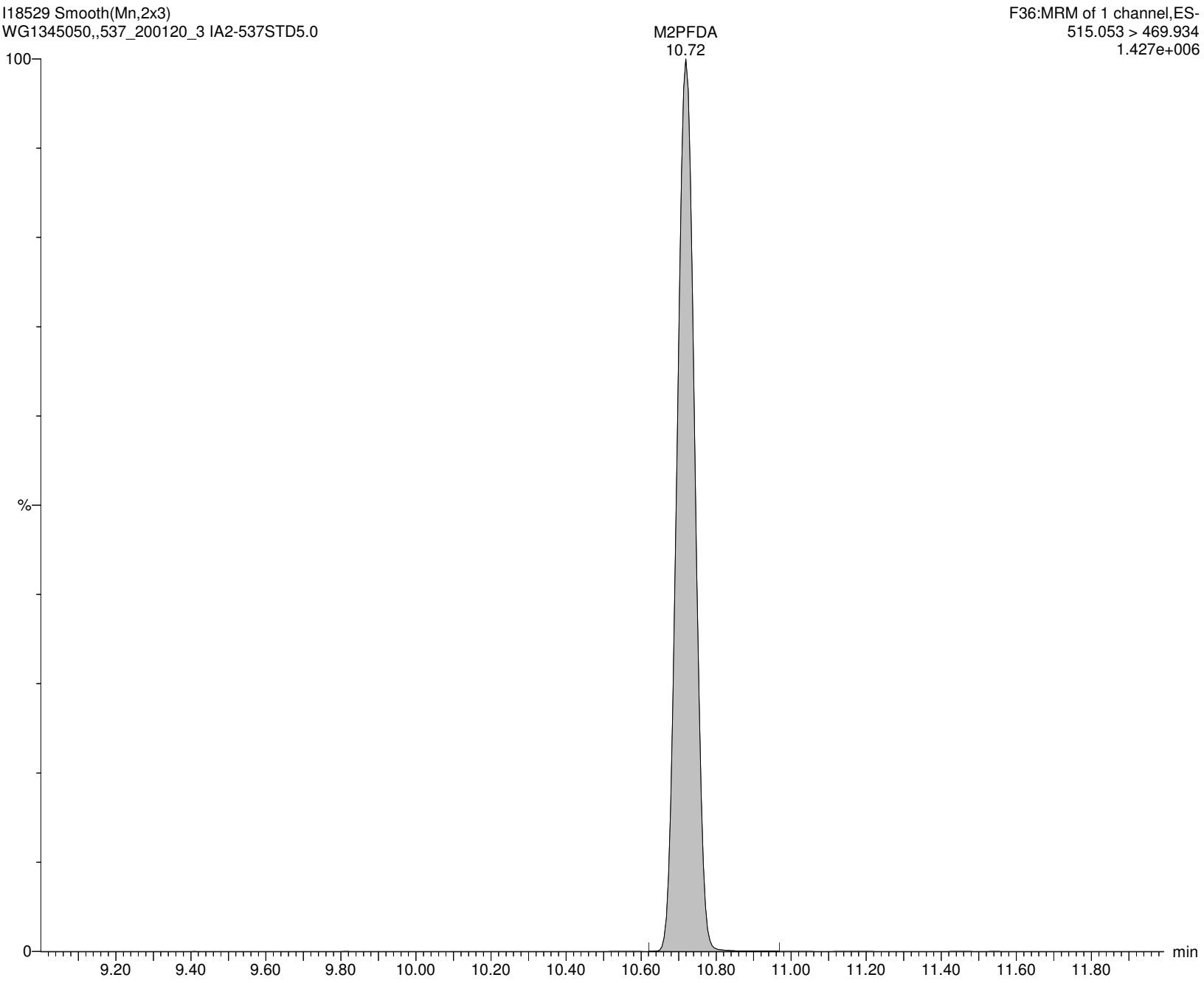

all concentration units in (ng/mL)

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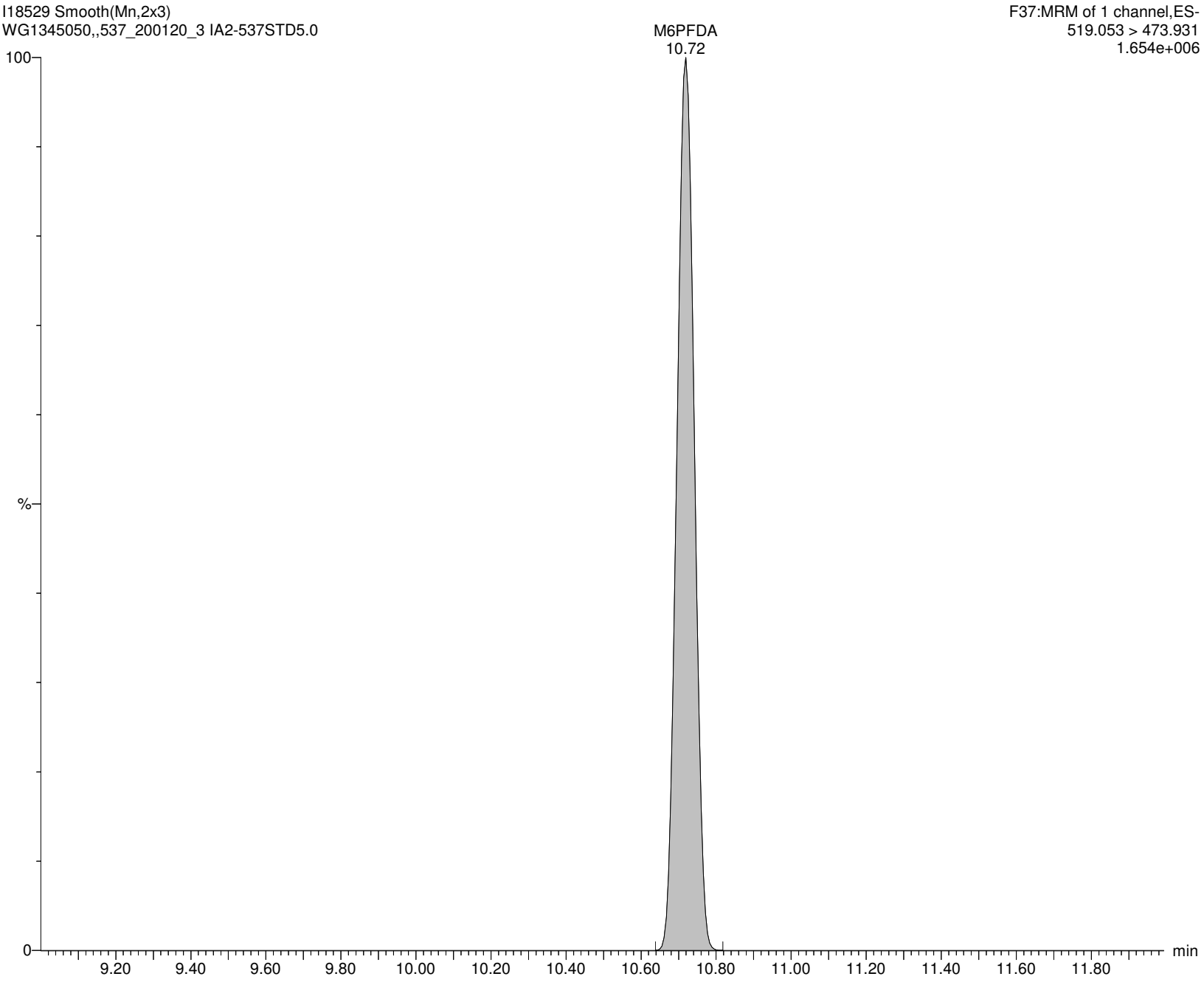

all concentration units in (ng/mL)

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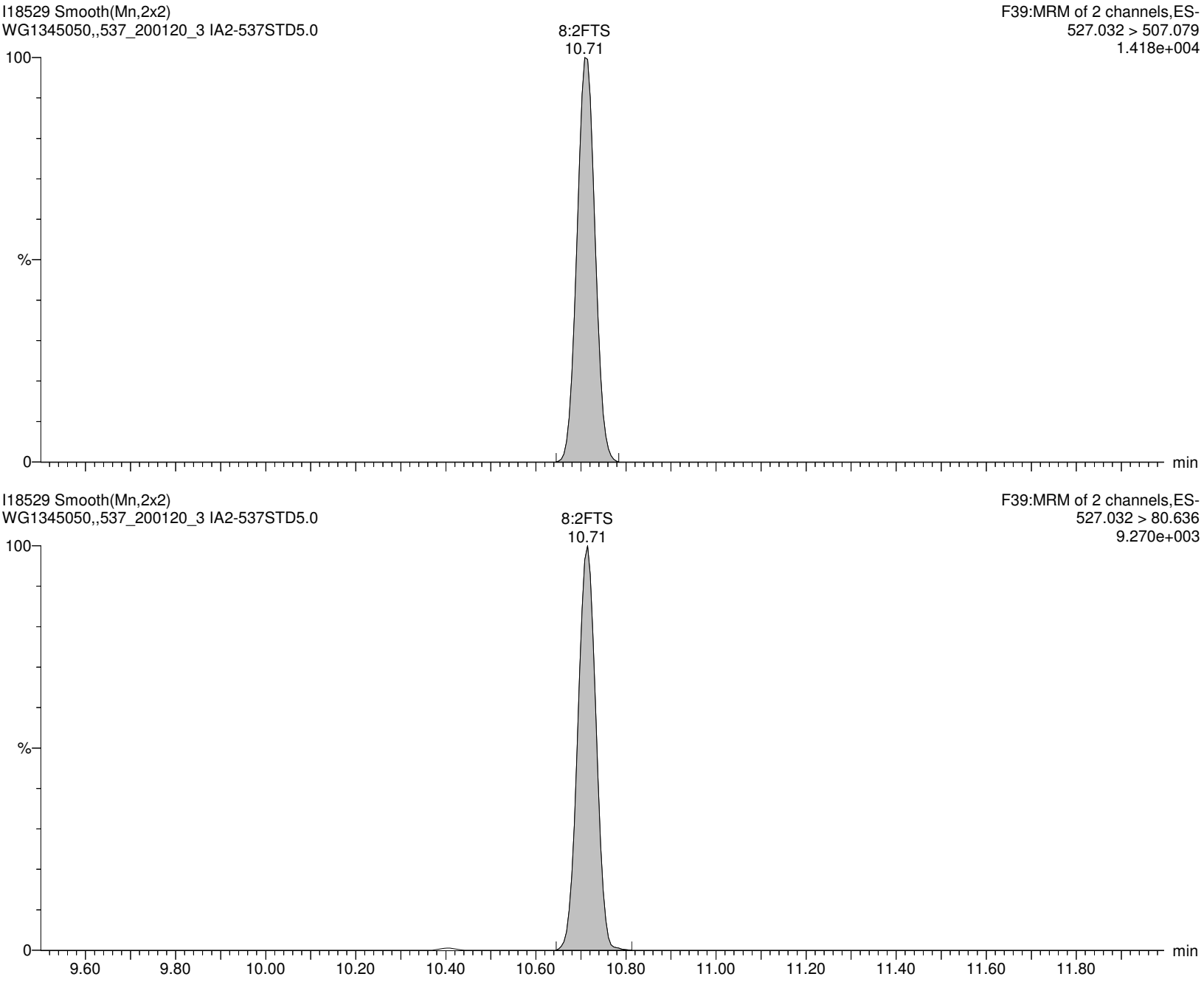
8:2FTS



all concentration units in (ng/mL)

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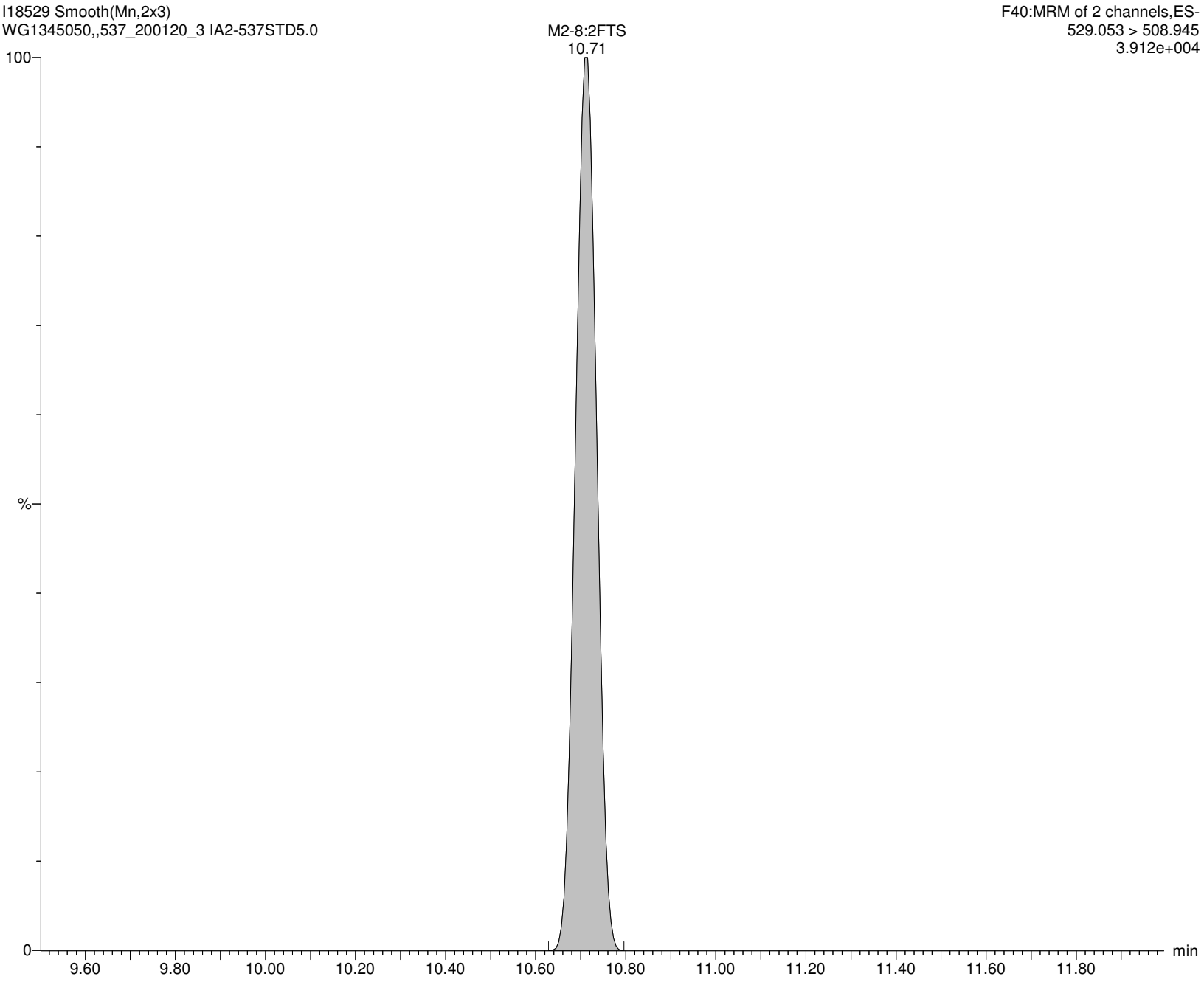

all concentration units in (ng/mL)

Alpha Analytical Inc.
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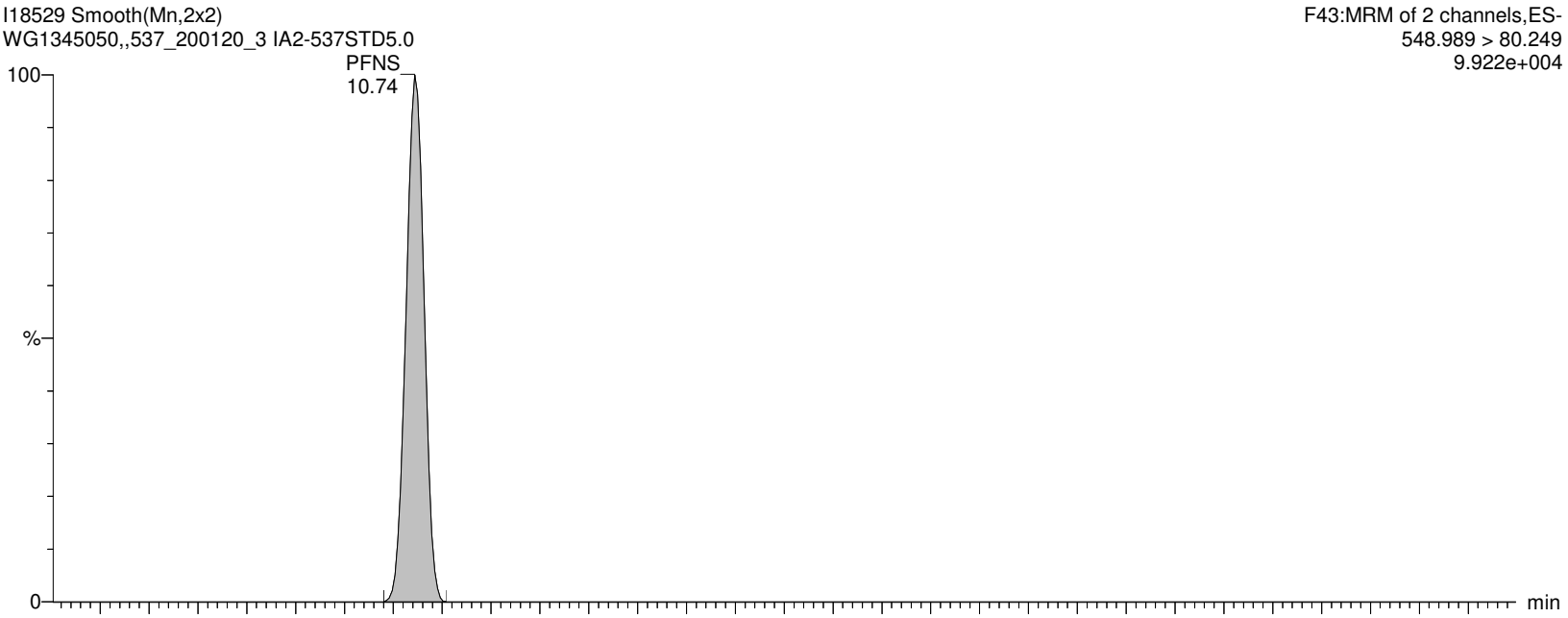

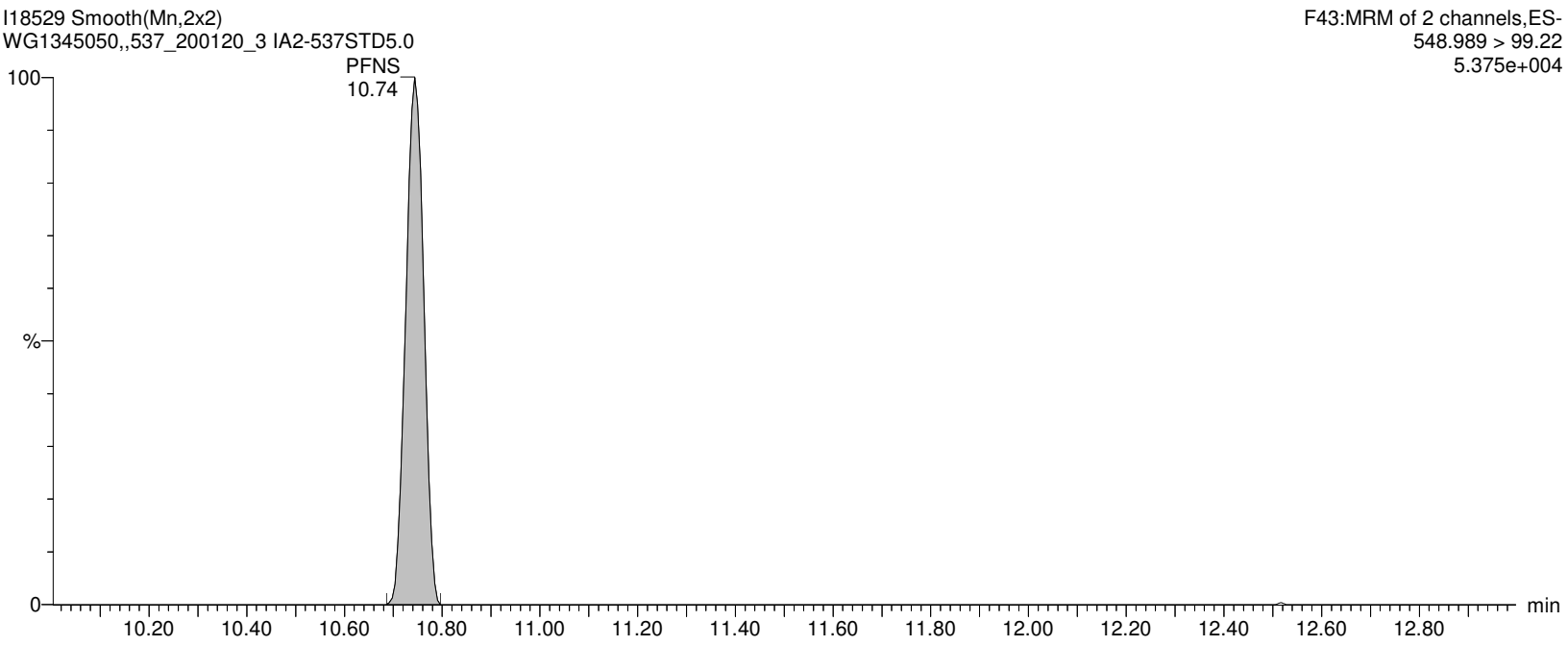

all concentration units in (ng/mL)

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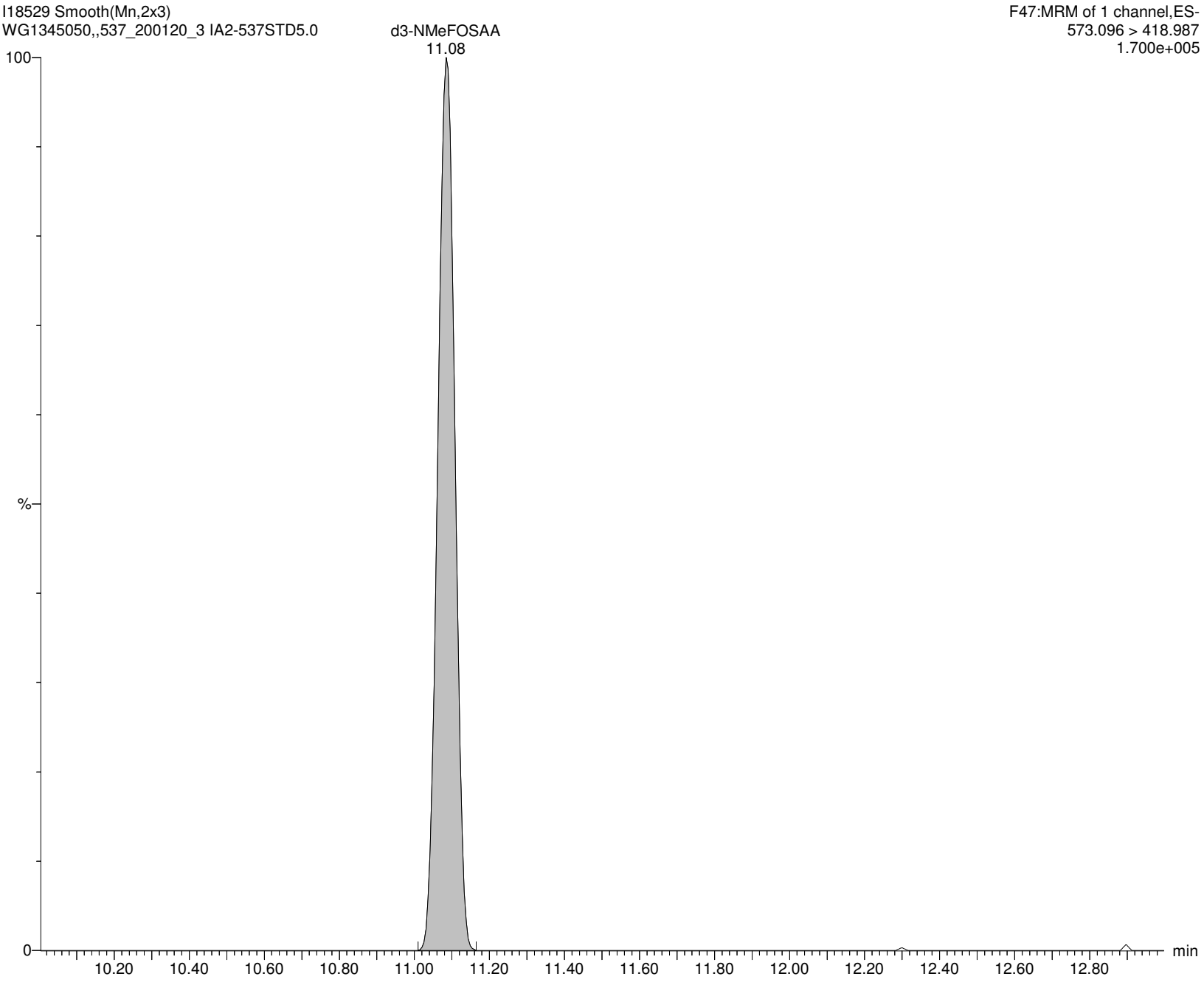
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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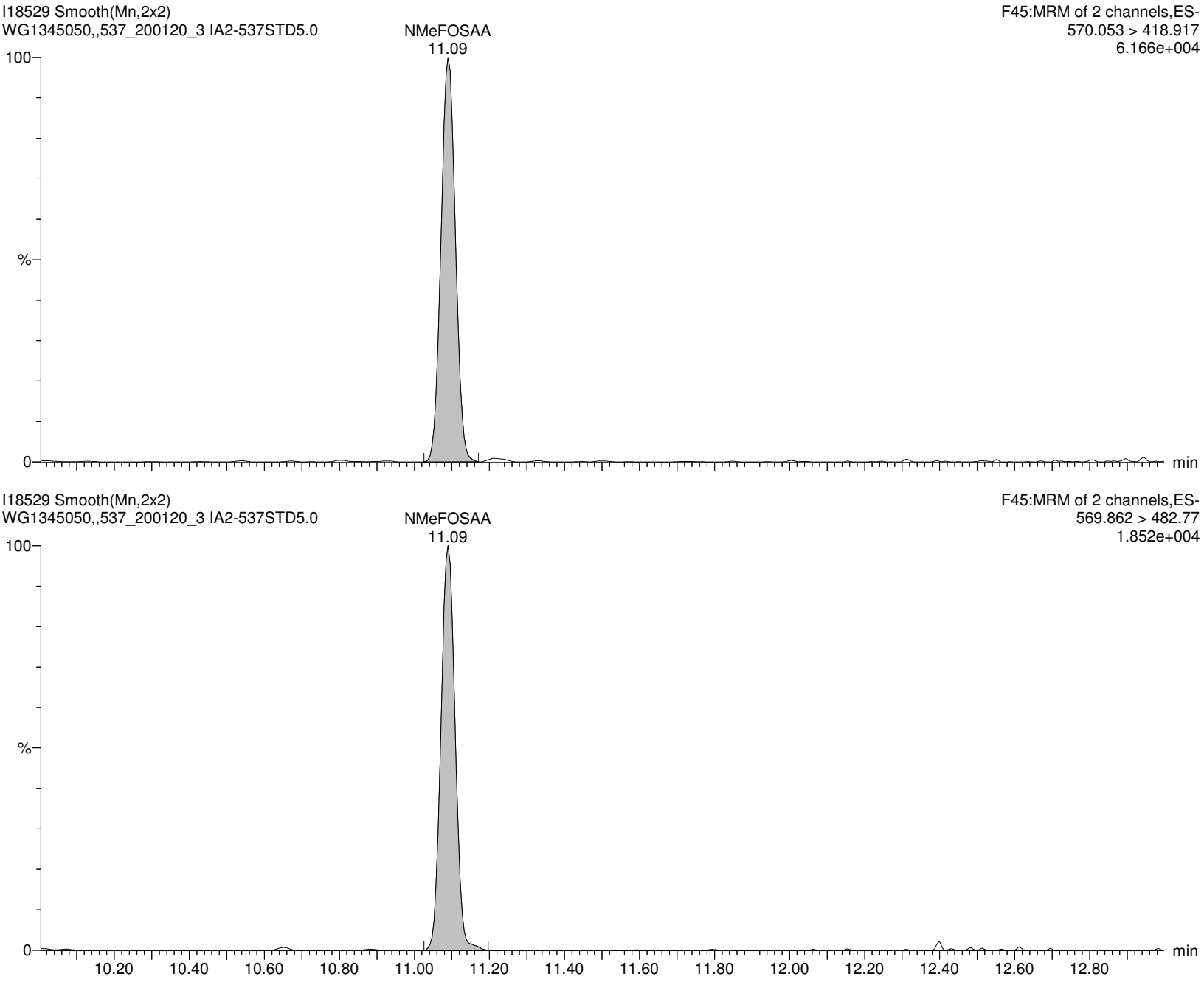

all concentration units in (ng/mL)

Alpha Analytical Inc.
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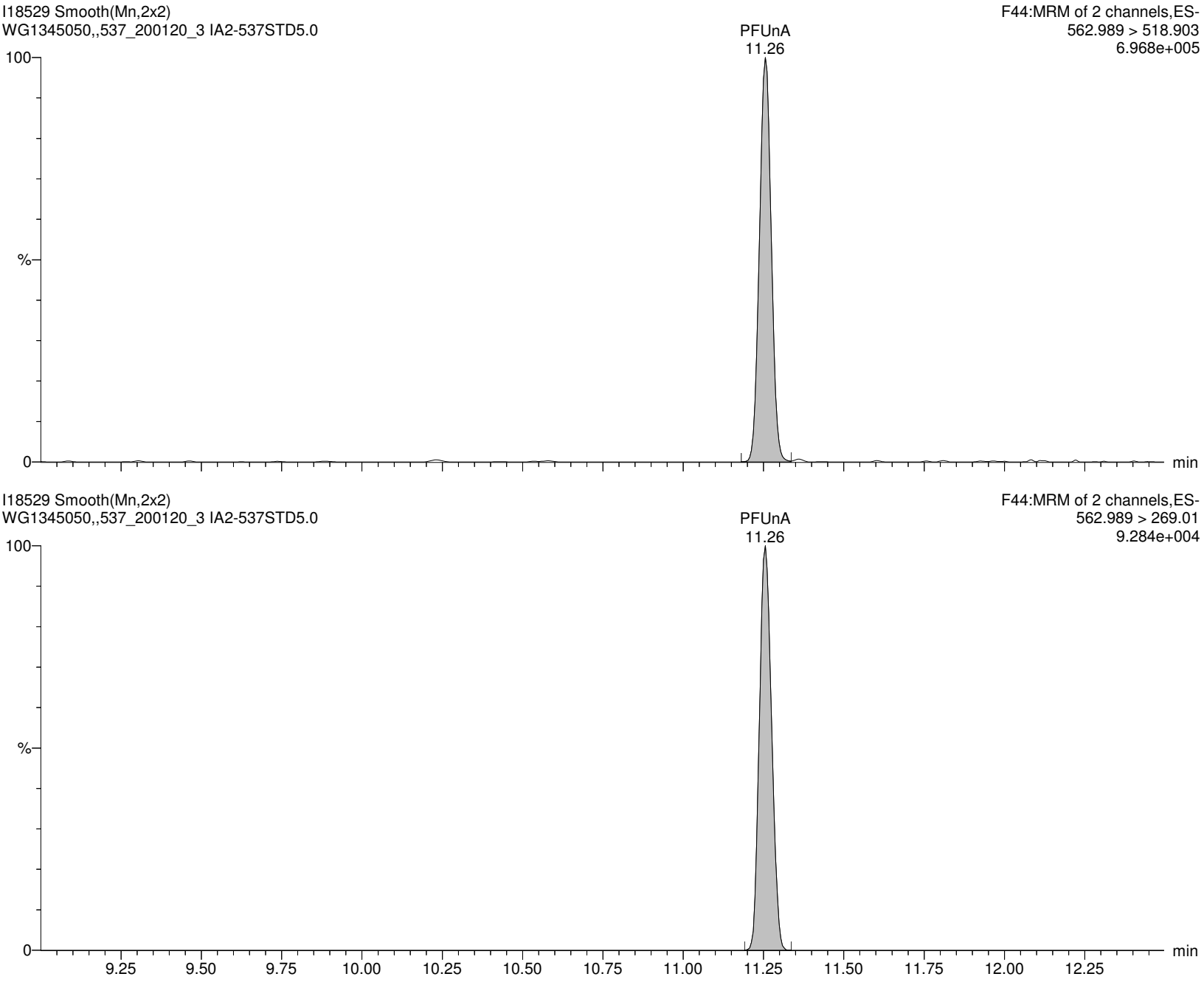

all concentration units in (ng/mL)

Alpha Analytical Inc.
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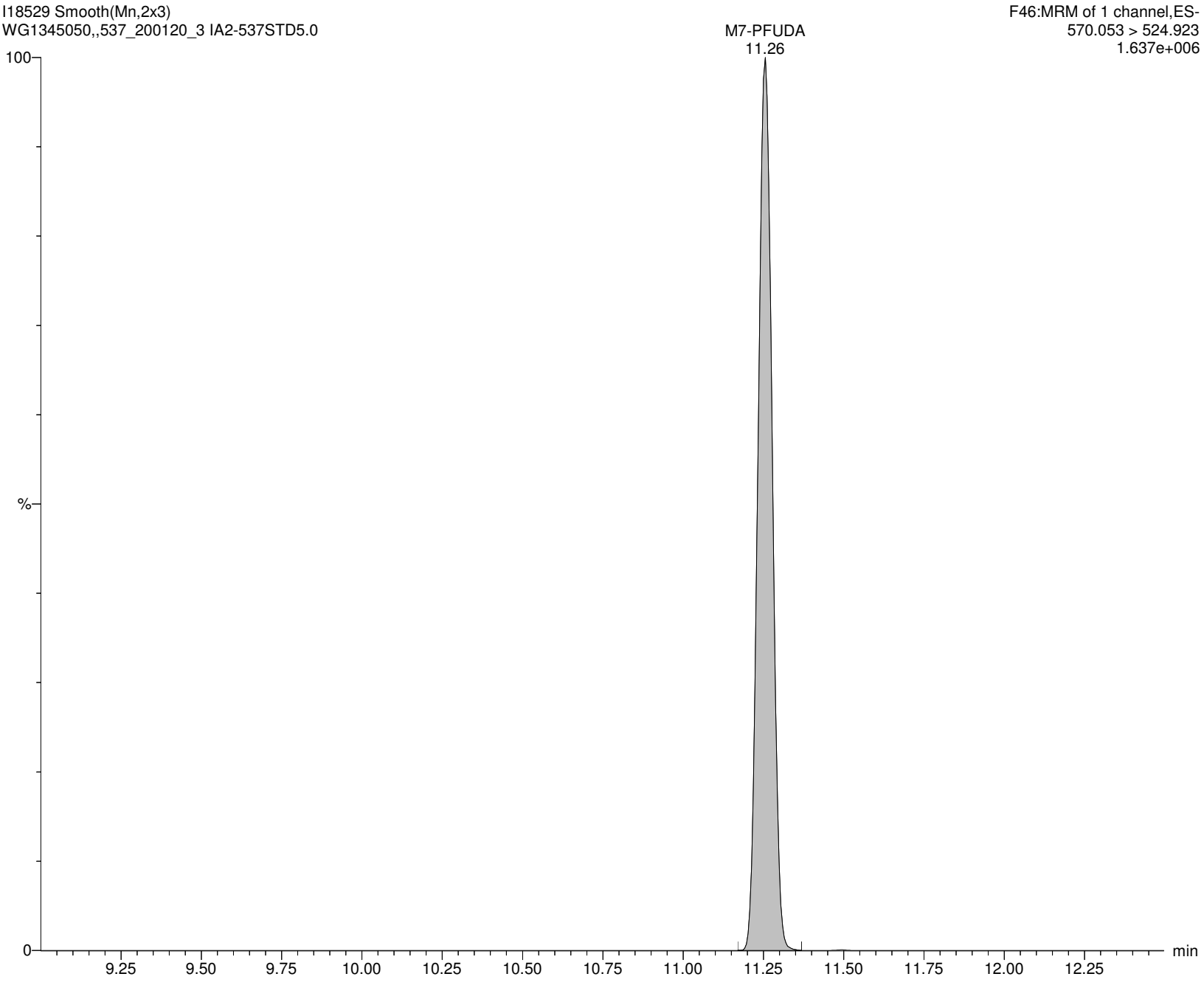

all concentration units in (ng/mL)

Alpha Analytical Inc.
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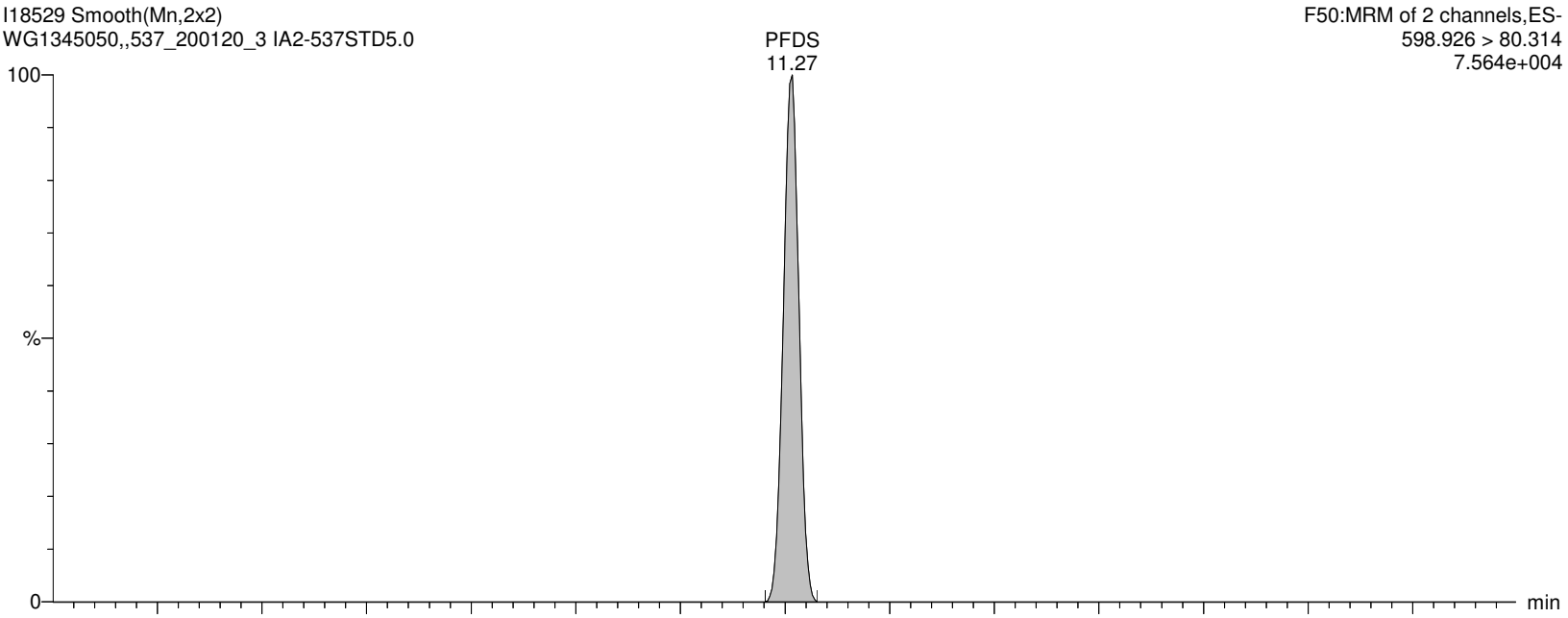

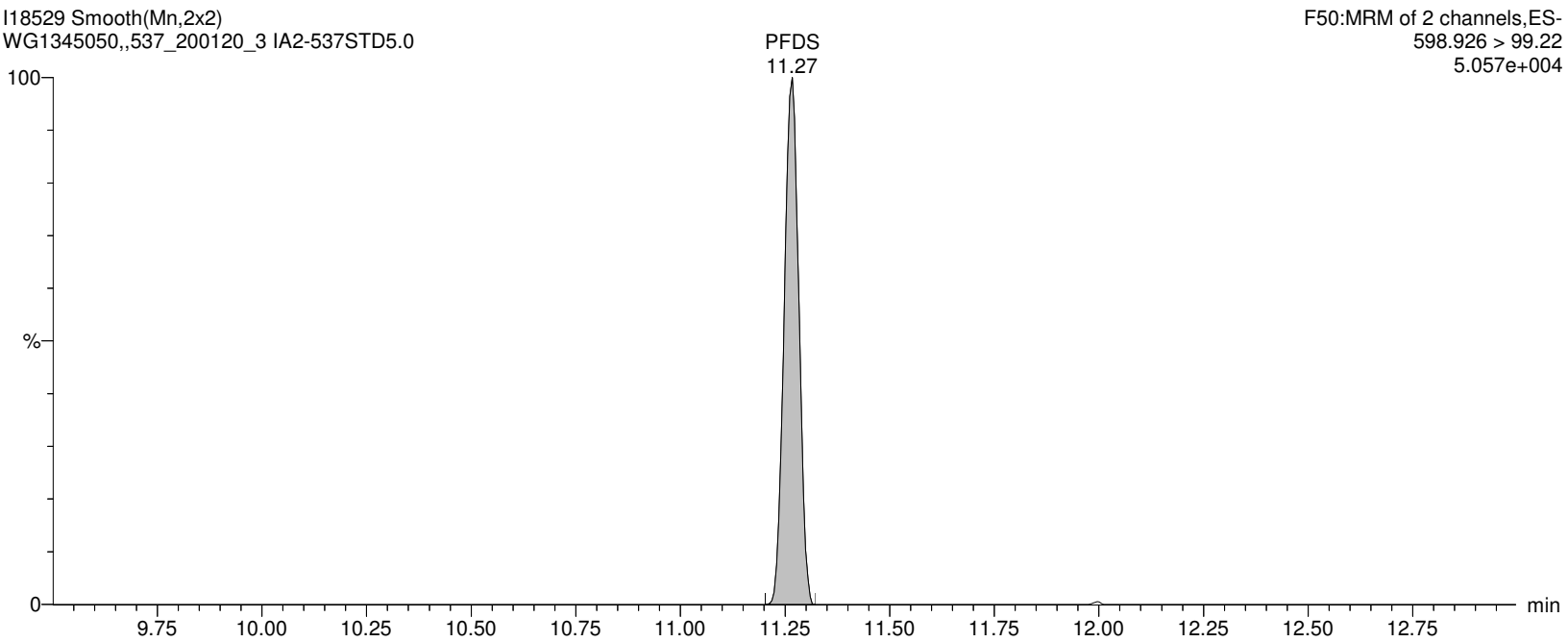

all concentration units in (ng/mL)

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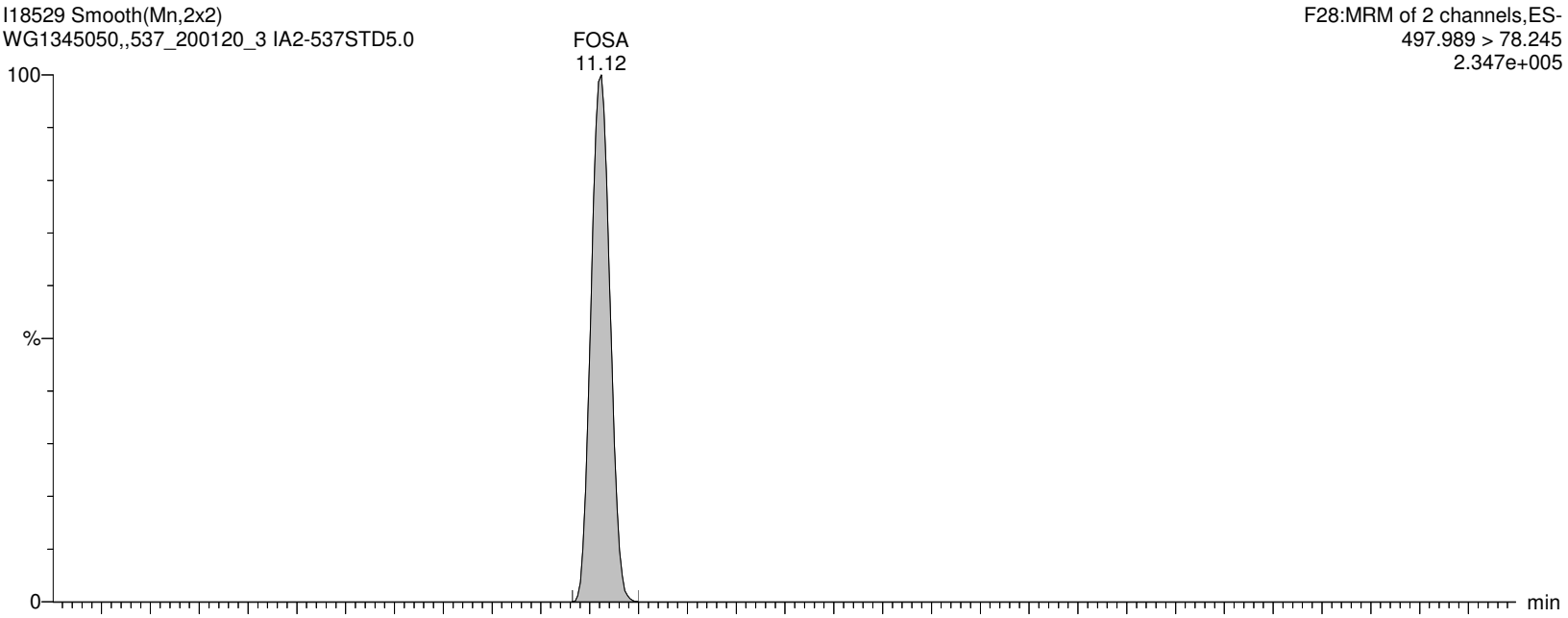

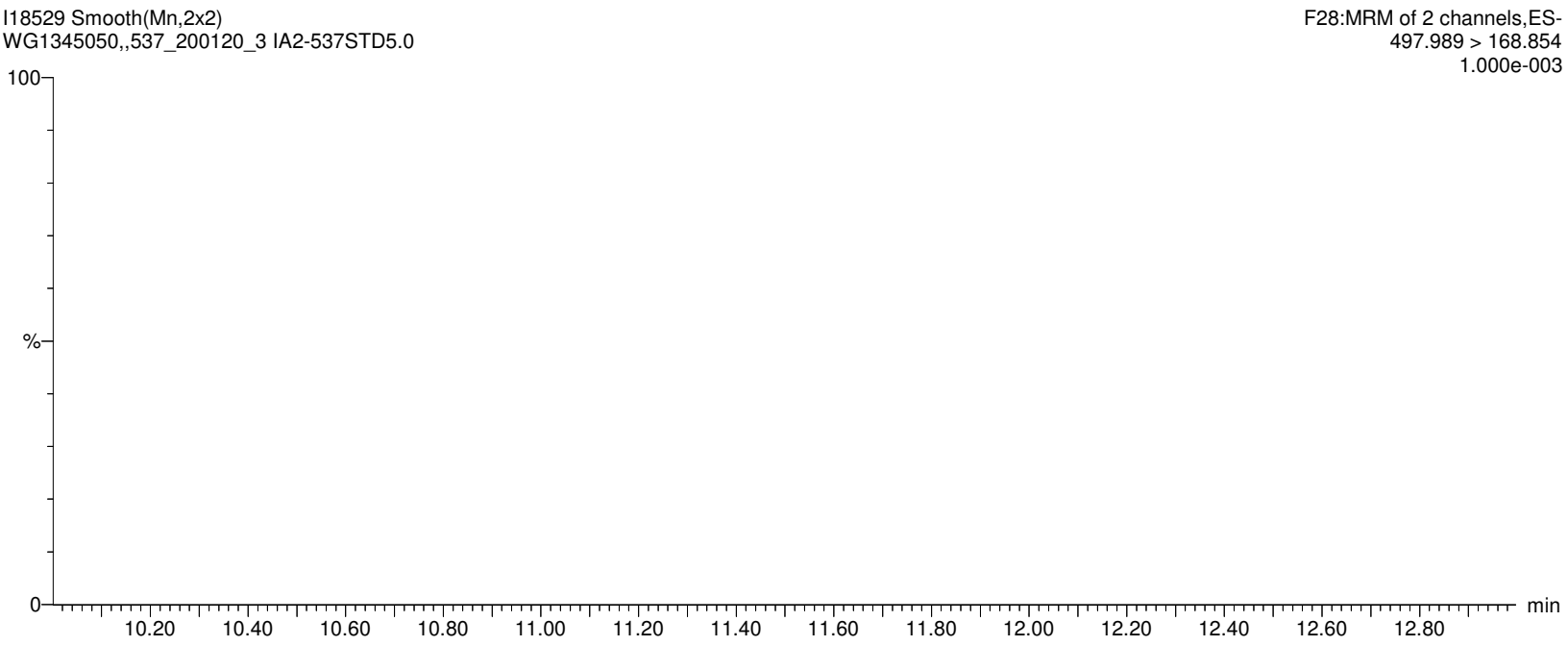

all concentration units in (ng/mL)

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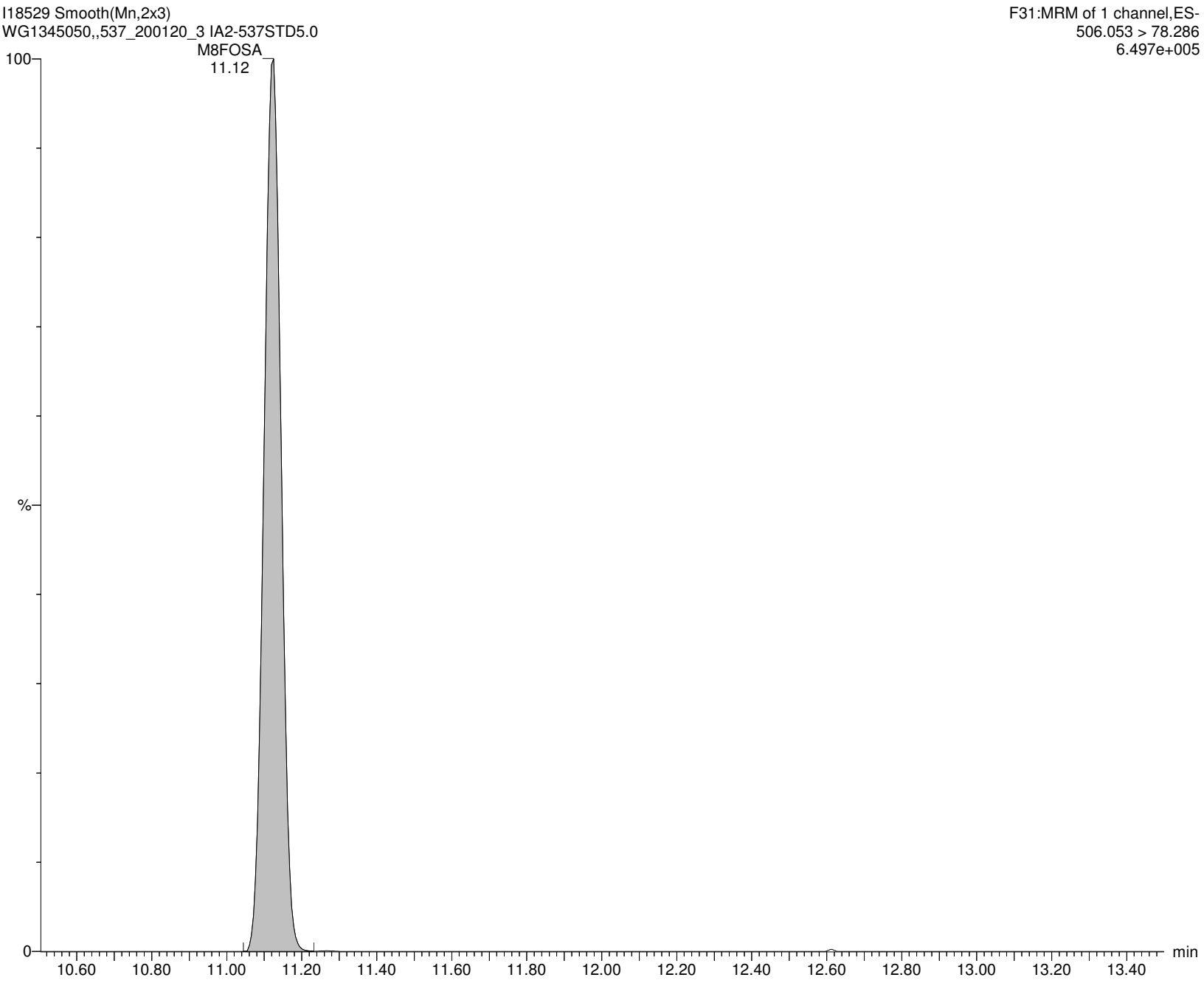

all concentration units in (ng/mL)

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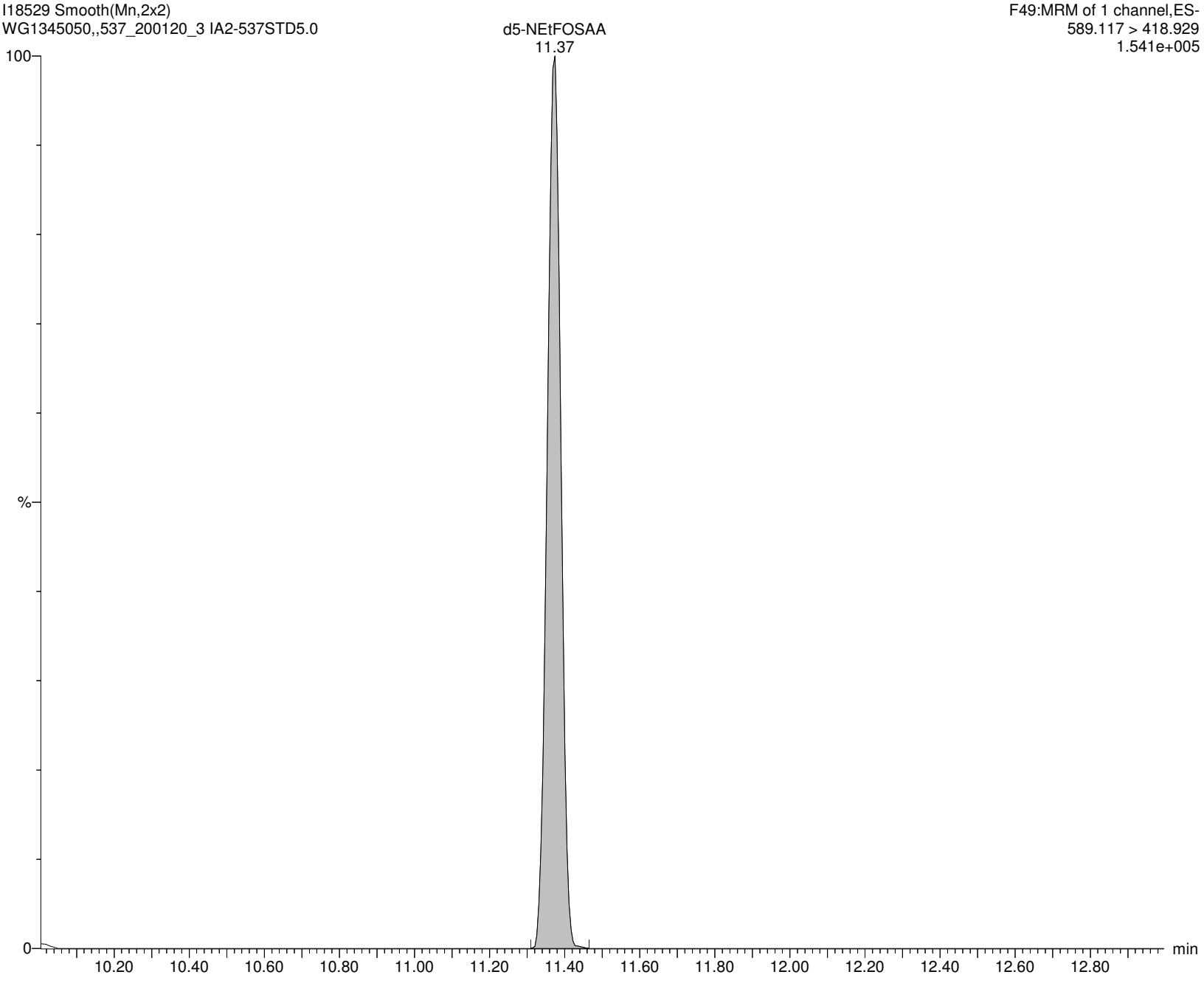
d5-NEtFOSAA



all concentration units in (ng/mL)

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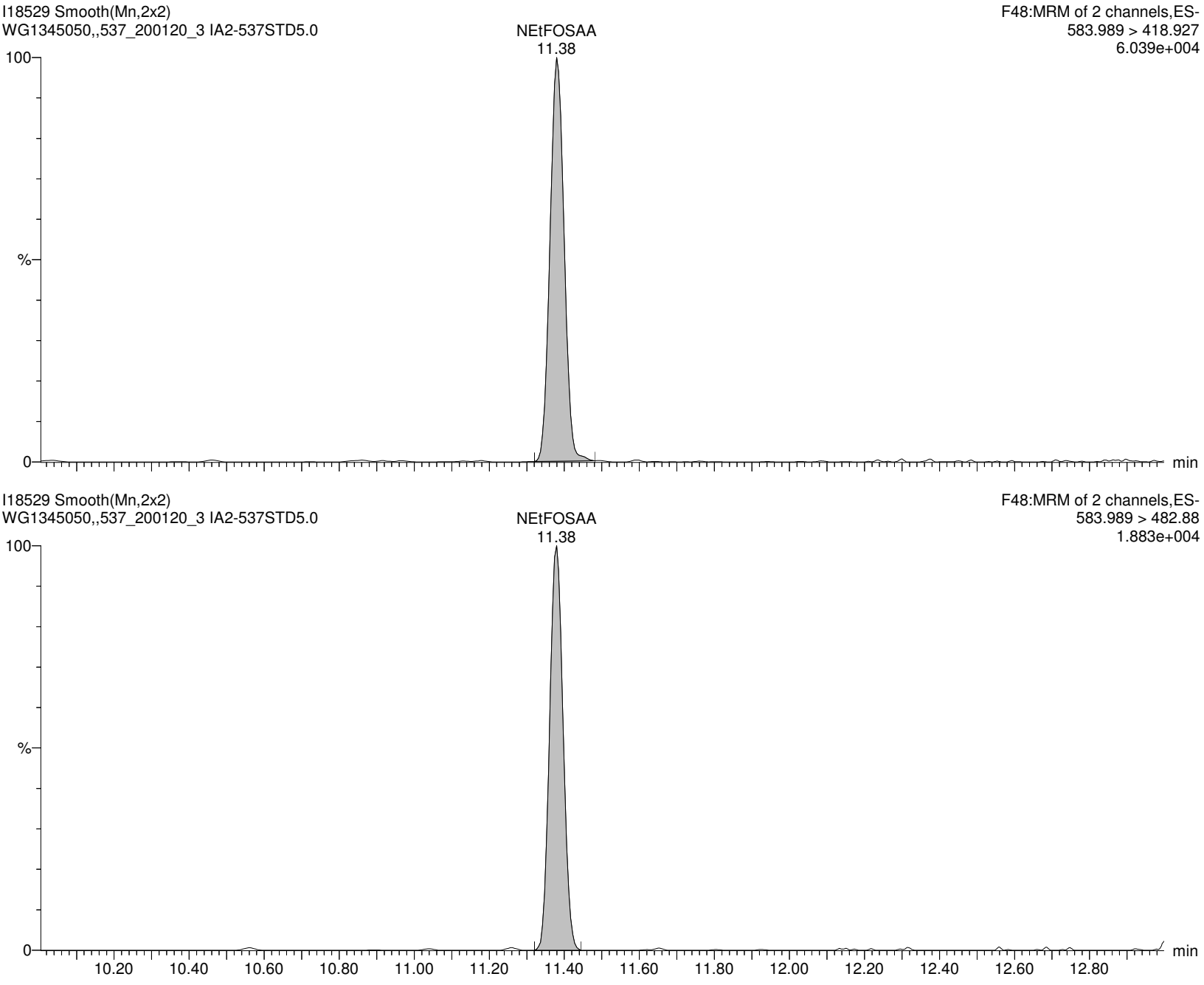
NEtFOSAA



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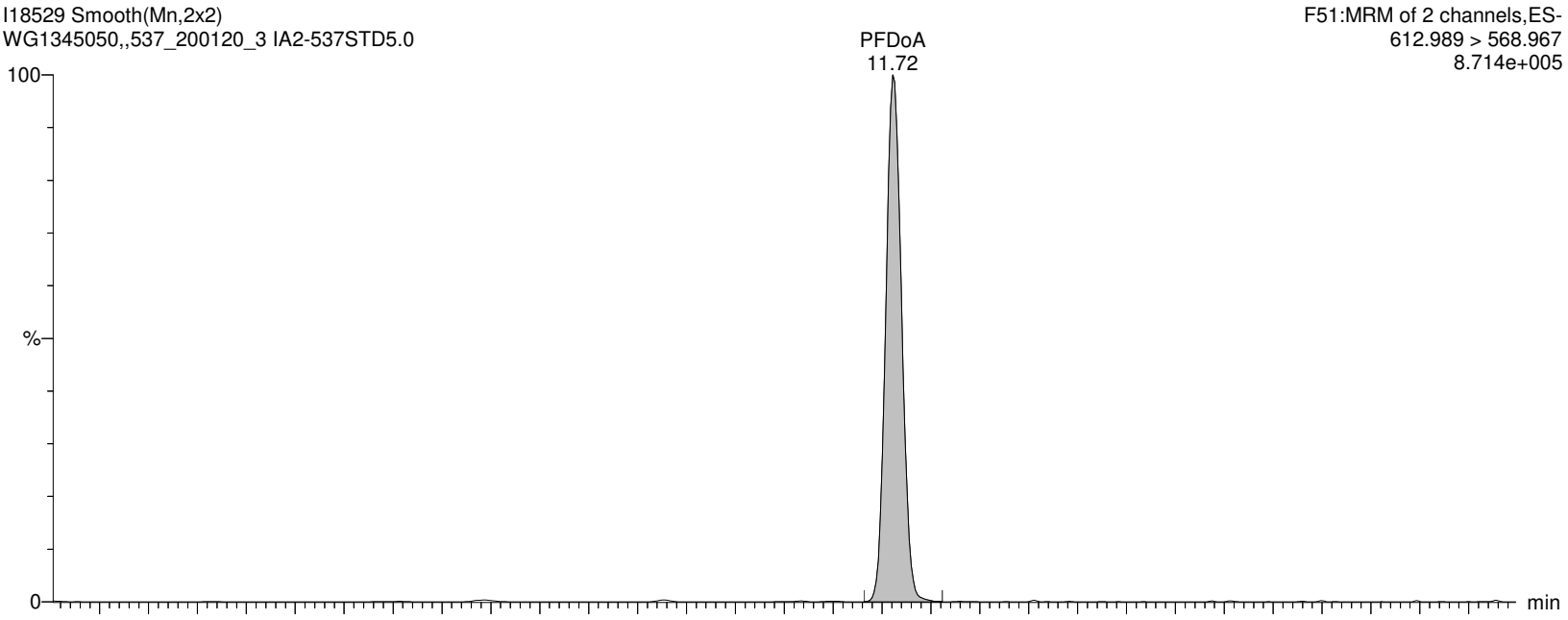

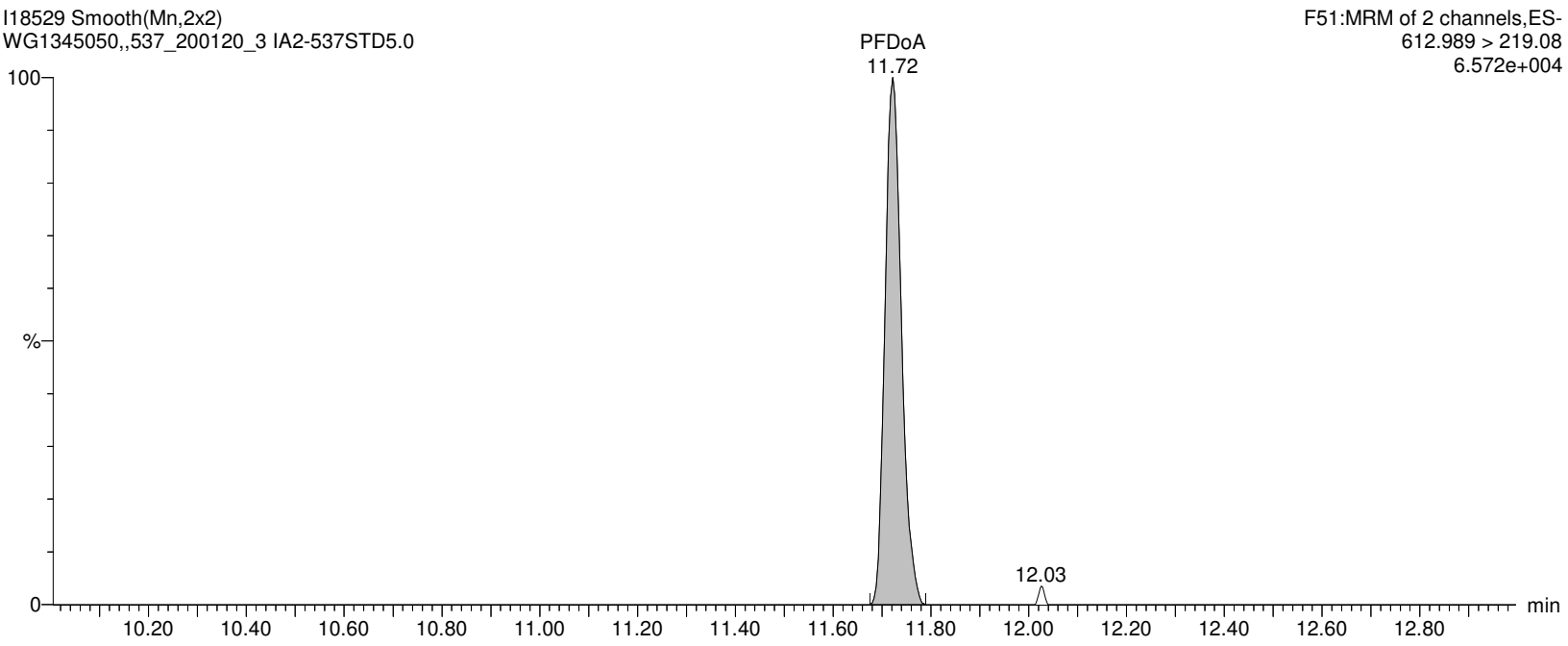

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:47 Eastern Standard Time

Name: I18529
ID: IA2-537STD5.0
Date: 27-Feb-2020
Time: 14:02:18
Description: WG1345050,,537_200120_3
User: LCMS01:SG
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
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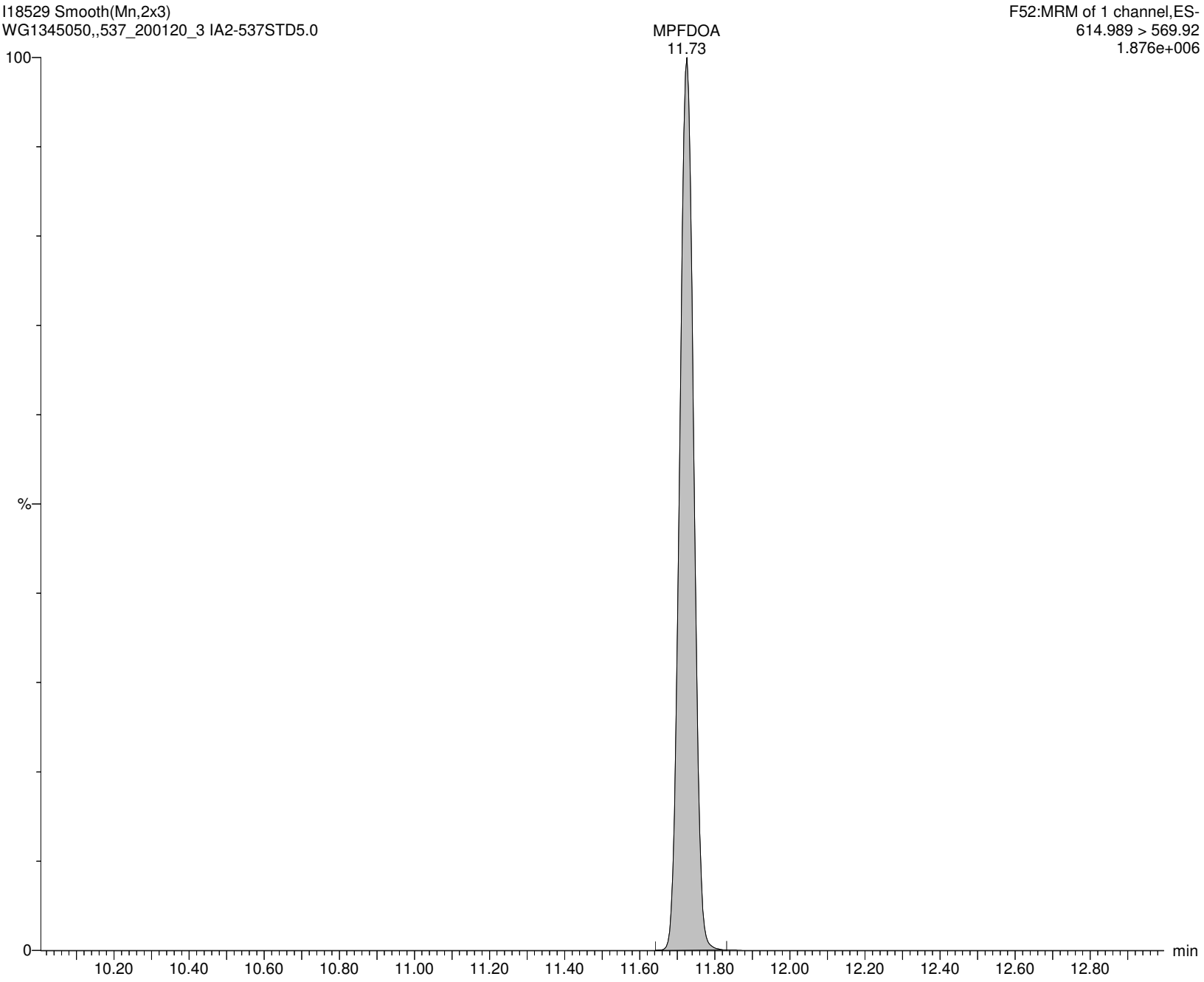

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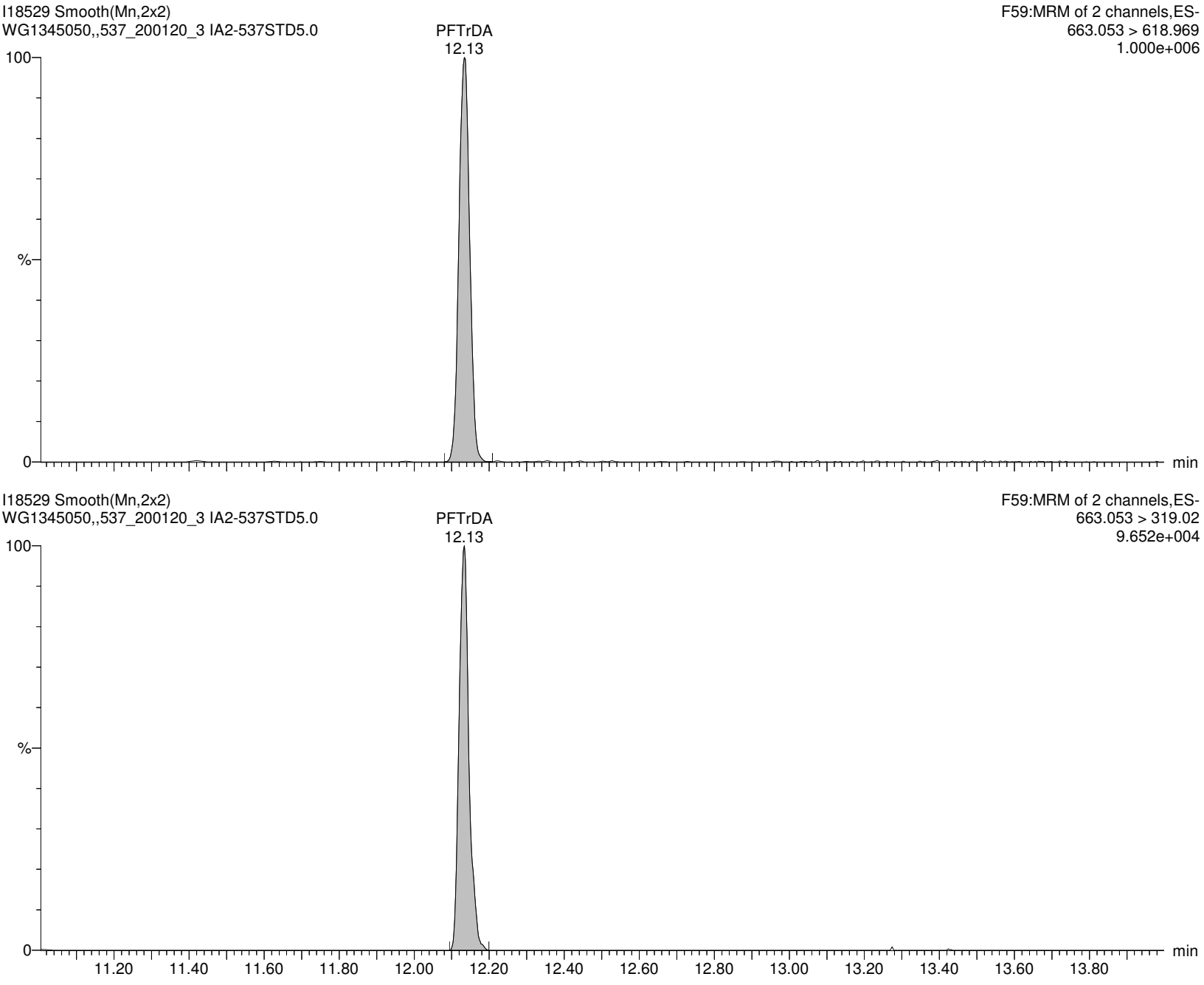

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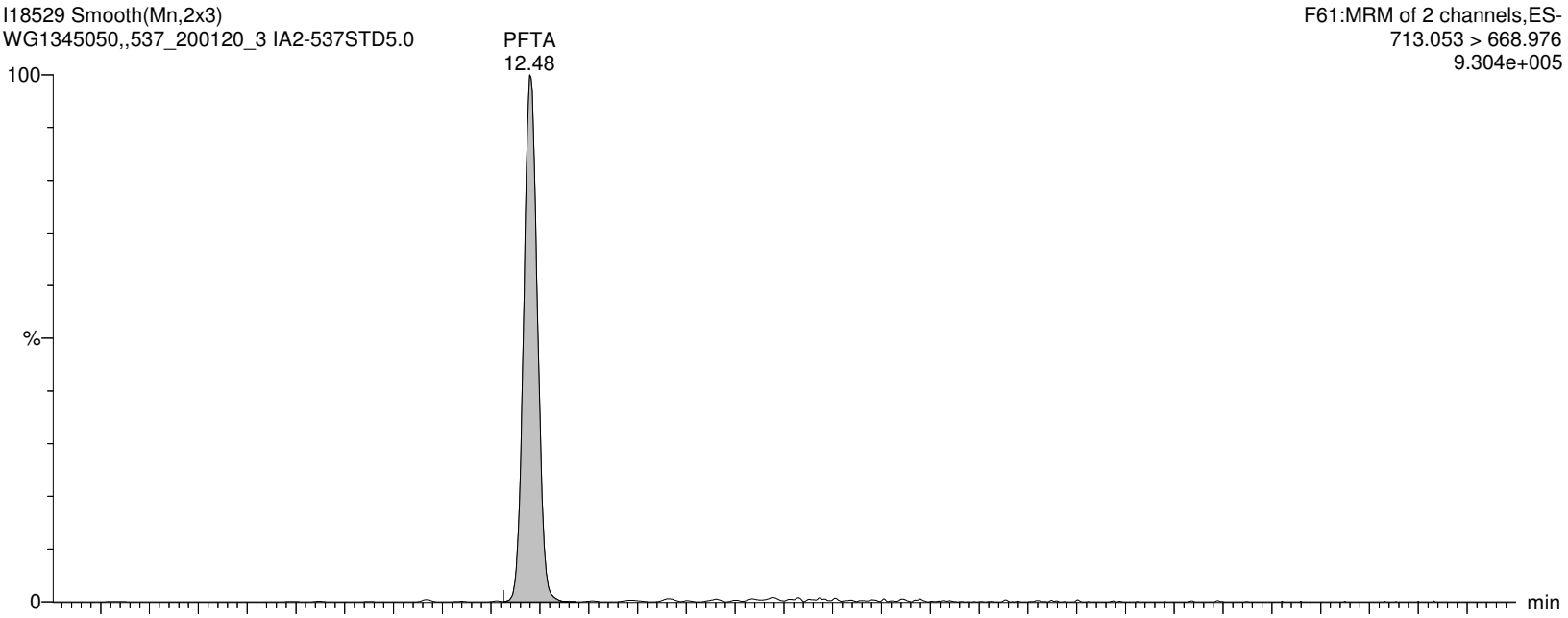

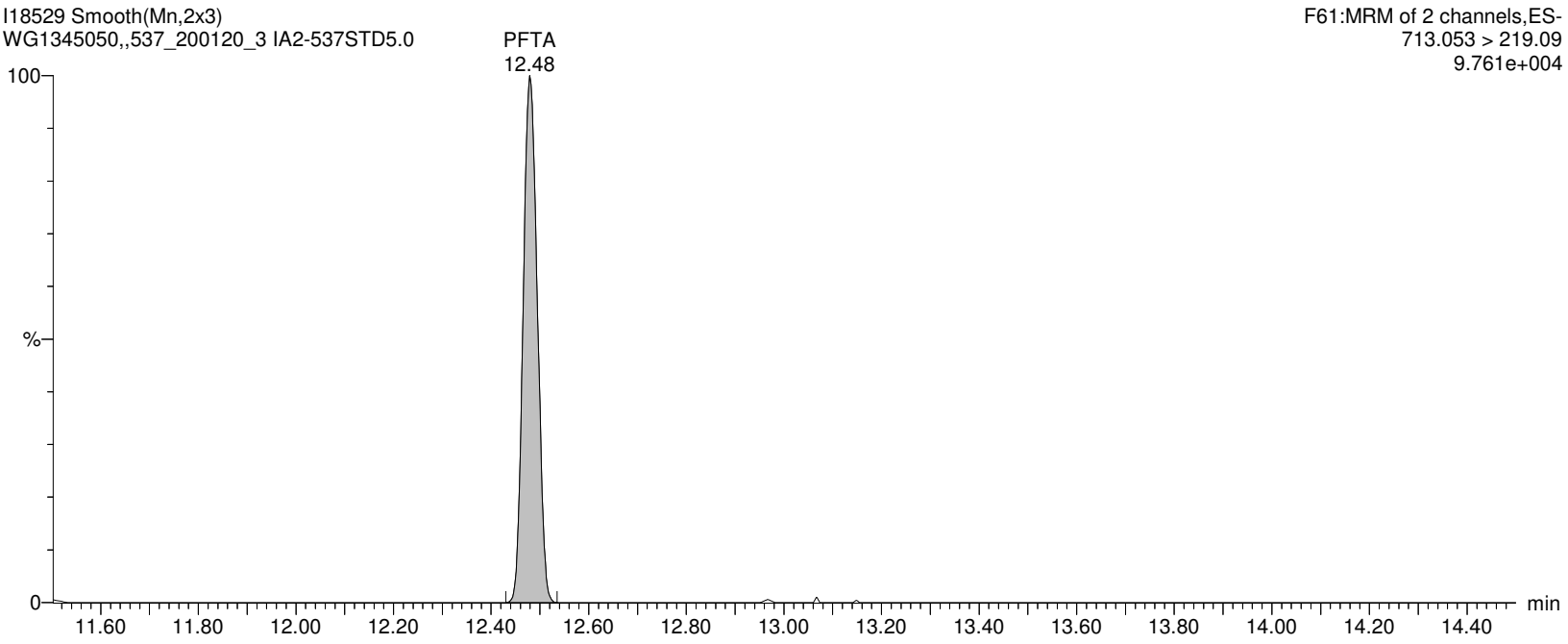

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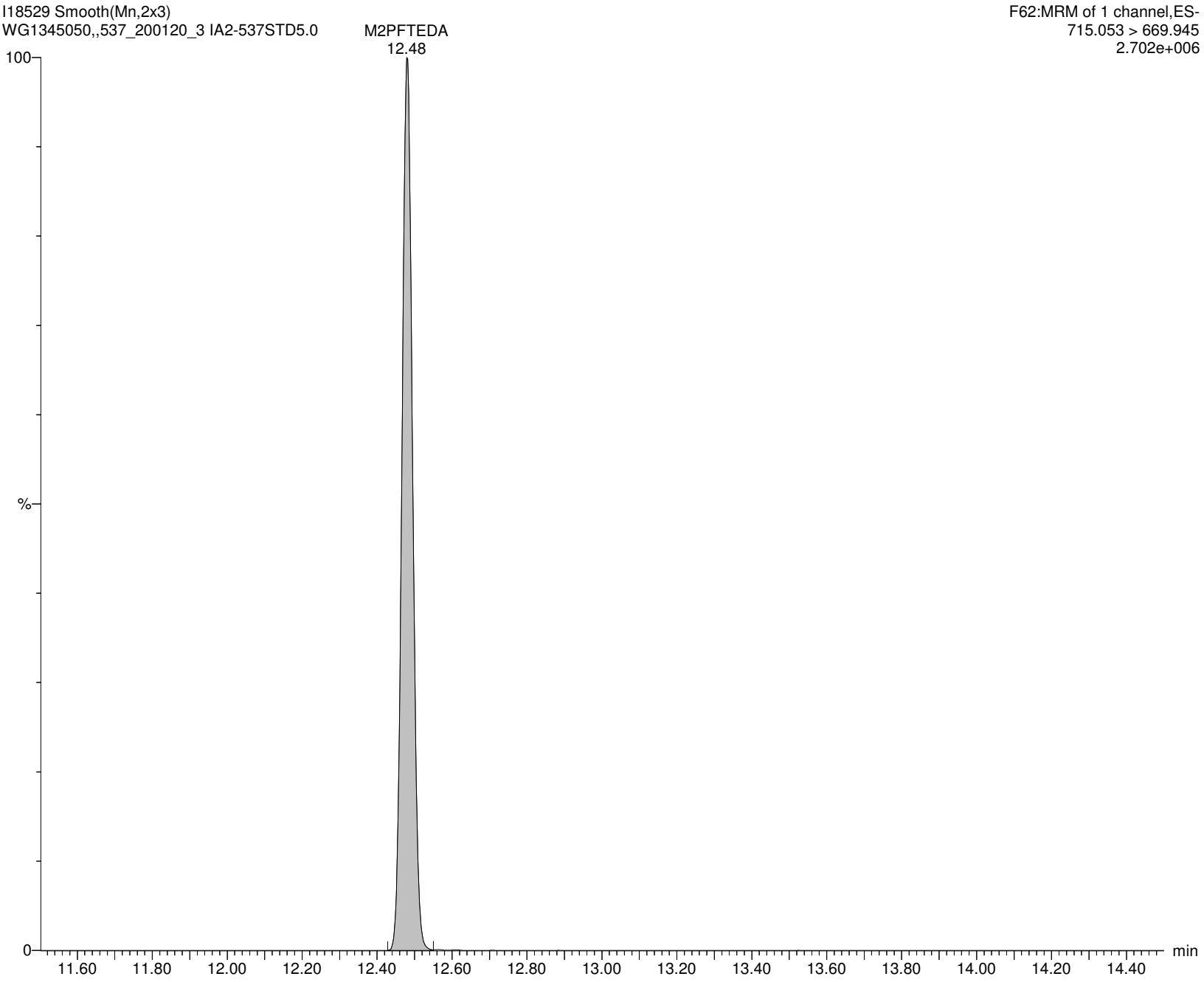

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ID: IA2-537STD10.0
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Date: 27-Feb-2020
Time: 14:18:52
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Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.25	212.926 > 169.111	30645		8.679		na	86.8
2	M3PFBA	INT STD	2.24	215.926 > 172.122	41232		10.486		na	104.9
3	MPFBA	INT STD	2.25	216.926 > 172.137	48815		10.332		na	103.3
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	40989		8.861		na	88.6
5	M5PFPEA	INT STD	5.21	267.989 > 223.081	66536		10.614		na	106.1
6	PFBS	375-73-5	5.87	298.926 > 79.923	8430		7.828	2.04	NO	88.5
7	M3PFBS	INT STD	5.87	301.989 > 80.254	11939		8.703		na	87.0
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	3756		8.534	1.78	NO	91.3
9	M2-4:2FTS	INT STD	7.05	329.117 > 309.079	5499		7.694		na	76.9
10	PFHxA	307-24-4	7.13	312.989 > 269.028	57574		8.893	17.18	NO	88.9
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	78150		10.006		na	100.1
12	PFPeS	2706-91-4	7.44	348.926 > 80.251	9210		7.896	2.35	NO	84.0
13	PFHpA	375-85-9	8.40	362.926 > 319.014	73250		8.699	5.16	NO	87.0
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	91953		10.148		na	101.5
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	1271		1.397		YES	82.2
16	L-PFHxS	355-46-4	8.56	398.904 > 79.915	5888		6.487	2.11	NO	87.7
17	PFHxS	355-46-4		398.904 > 79.915	7158		7.884		na	
18	M3PFHxS	INT STD	8.56	401.926 > 80.317	12272		9.985		na	99.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.35	412.989 > 368.9	71444		8.879	9.40	NO	88.8
21	M2PFOA	INT STD	9.35	415.032 > 369.968	95398		11.339		na	113.4
22	PFOA	335-67-1		412.989 > 368.9	71444		8.879		na	
23	M8PFOA	INT STD	9.35	420.989 > 375.979	93629		10.292		na	102.9
24	6:2FTS	27619-97-2	9.31	426.989 > 406.921	908		8.740	0.66	NO	92.0
25	M2-6:2FTS	INT STD	9.31	428.989 > 408.917	4355		9.794		na	97.9
26	PFHpS	375-92-8	9.44	448.926 > 80.257	5058		8.644	1.04	NO	91.0
27	PFNA	375-95-1	10.10	462.989 > 418.931	62461		8.943	3.98	NO	89.4
28	M9PFNA	INT STD	10.10	472.053 > 426.947	93873		10.555		na	105.6
29	br-PFOS	1763-23-1	9.89	498.968 > 79.918	1641	M5	1.877	3.83	NO	93.8
30	L-PFOS	1763-23-1	10.14	498.968 > 79.918	4483		7.118	1.35	NO	97.5
31	PFOS	1763-23-1		498.968 > 79.918	6124		8.995		na	
32	M4PFOS	INT STD	10.14	503.032 > 80.306	10693		12.589		na	125.9
33	M8PFOS	INT STD	10.14	507.053 > 80.294	11646		9.378		na	93.8
34	PFDA	335-76-2	10.72	513.053 > 468.906	58492		8.646	5.48	NO	86.5
35	M2PFDA	INT STD	10.72	515.053 > 469.934	78375		11.848		na	118.5
36	M6PFDA	INT STD	10.72	519.053 > 473.931	88327		10.243		na	102.4
37	8:2FTS	39108-34-4	10.71	527.032 > 507.079	1437		10.272	1.67	NO	107.0
38	M2-8:2FTS	INT STD	10.71	529.053 > 508.945	2138		7.952		na	79.5
39	PFNS	68259-12-1	10.75	548.989 > 80.249	7888		10.013	1.52	NO	104.3

all concentration units in (ng/mL)

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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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ID: IA2-537STD10.0
Name: I18530
Date: 27-Feb-2020
Time: 14:18:52
Description: WG1345050,,537_200120_4
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.09	573.096 > 418.987	9430		8.255		na	82.5
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	5987		10.623	3.00	NO	106.2
42	PFUnA	2058-94-8	11.25	562.989 > 518.903	62609		8.532	7.77	NO	85.3
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	79022		10.429		na	104.3
44	PFDS	335-77-3	11.26	598.926 > 80.314	7534		9.822	1.76	NO	101.8
45	FOSA	754-91-6	11.12	497.989 > 78.245	23804		8.913		YES	89.1
46	M8FOSA	INT STD	11.12	506.053 > 78.286	32410		9.379		na	93.8
47	d5-NEtFOSAA	INT STD	11.37	589.117 > 418.929	6562		7.877		na	78.8
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	5451		9.739	3.11	NO	97.4
49	PFDoA	307-55-1	11.72	612.989 > 568.967	70173		9.445	15.05	NO	94.4
50	MPFDOA	INT STD	11.72	614.989 > 569.92	81837		10.046		na	100.5
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	74049		9.993	11.36	NO	99.9
52	PFTA	376-06-7	12.48	713.053 > 668.976	65072		9.770	9.37	NO	97.7
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	89897		9.791		na	97.9

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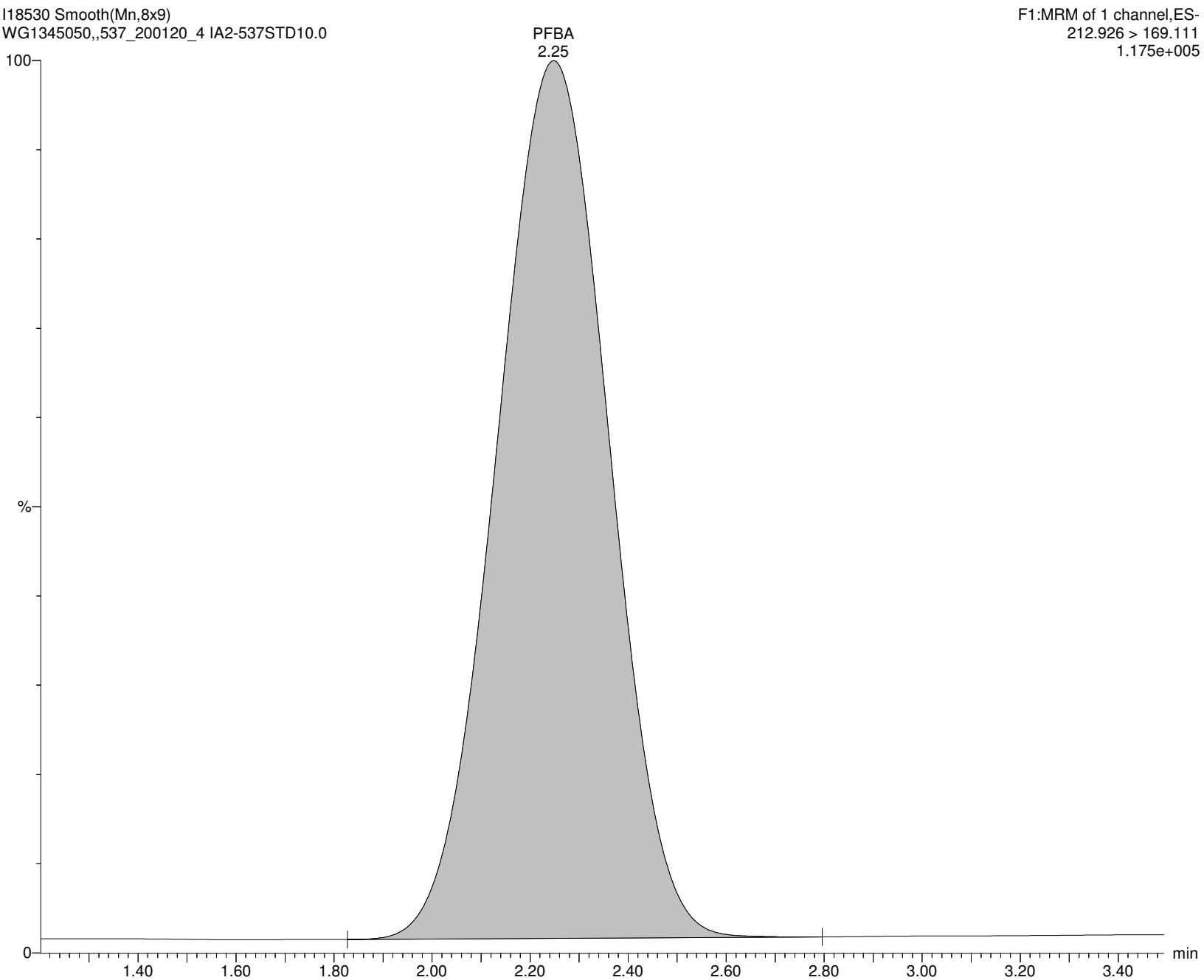

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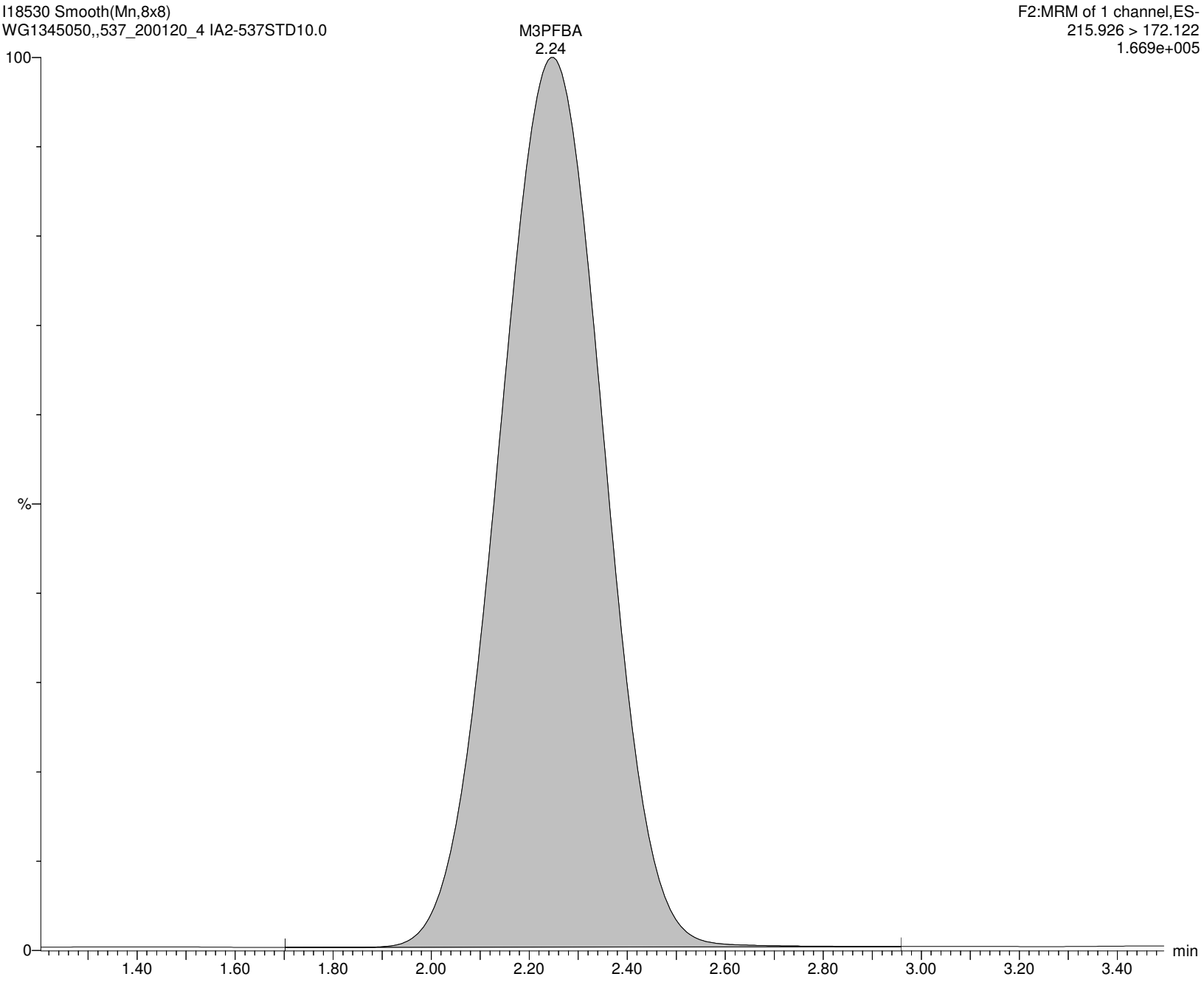

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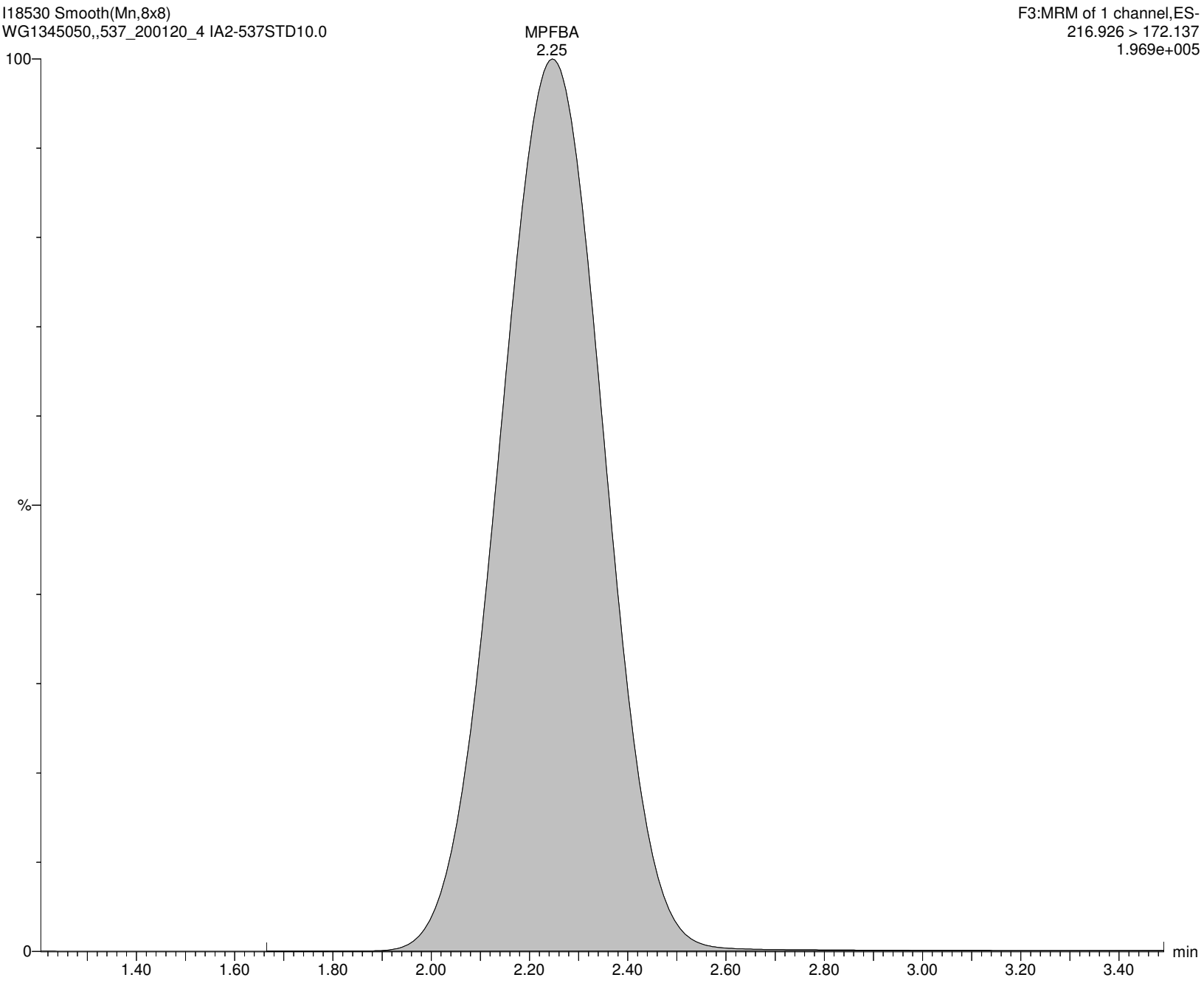

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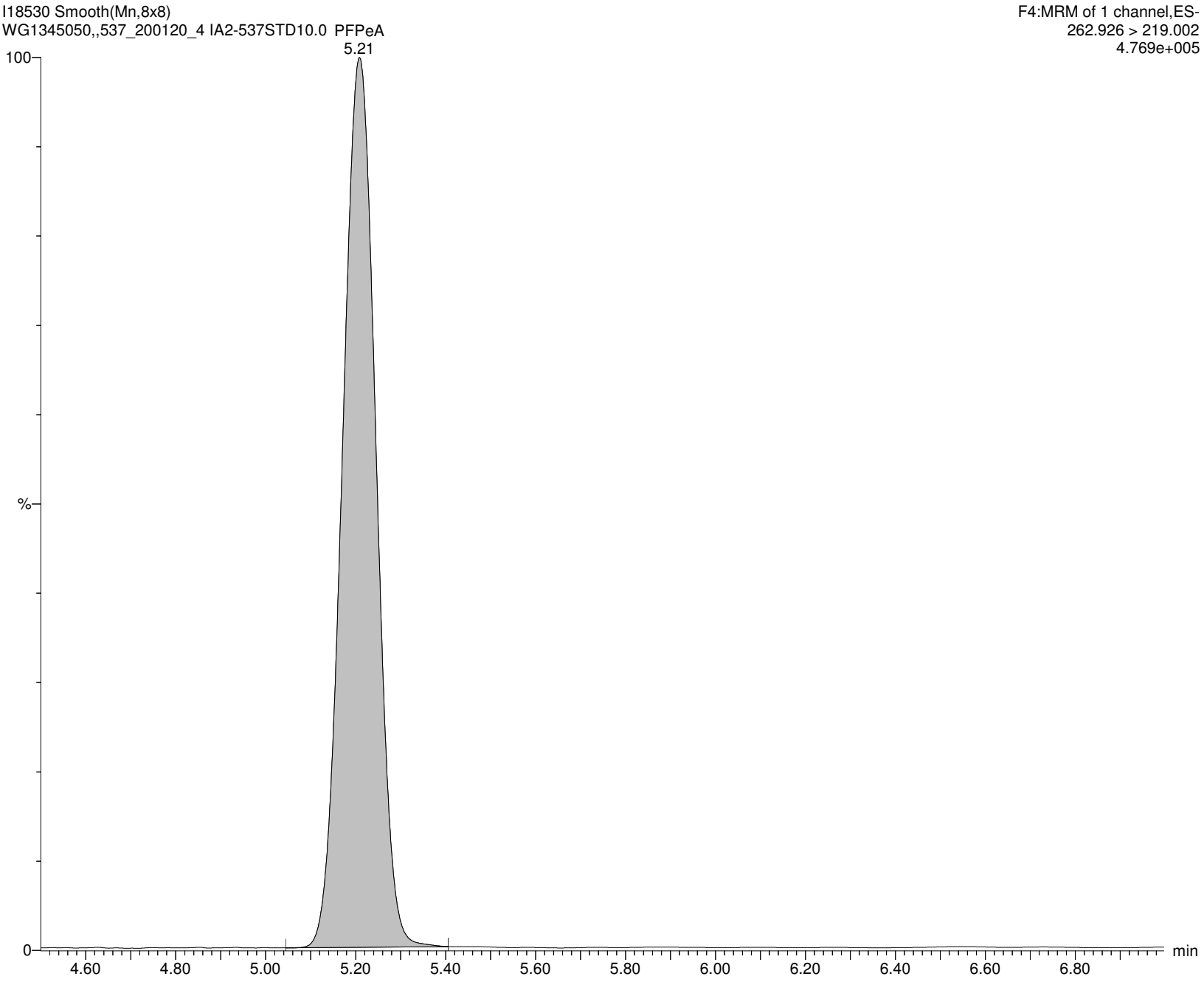

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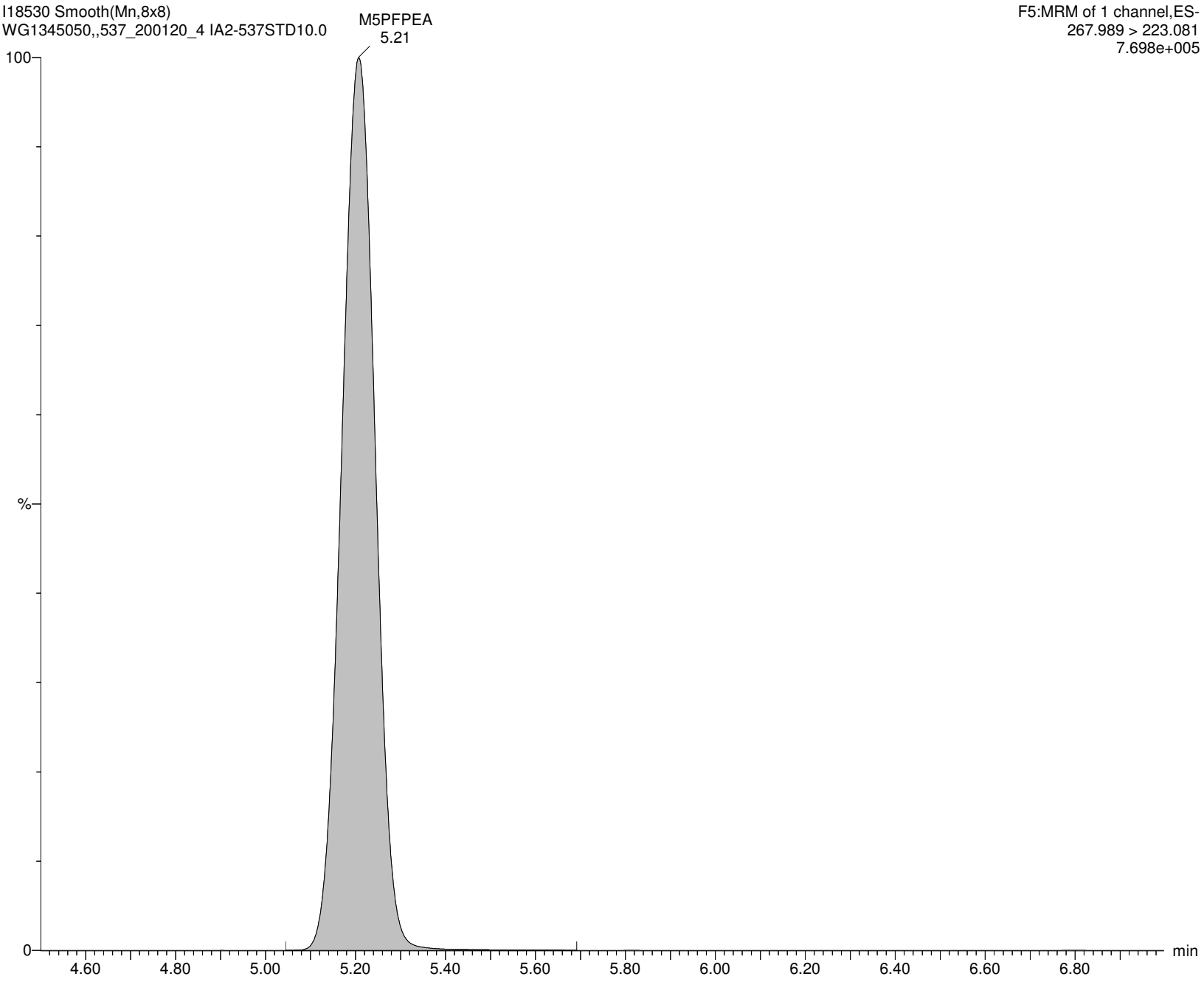

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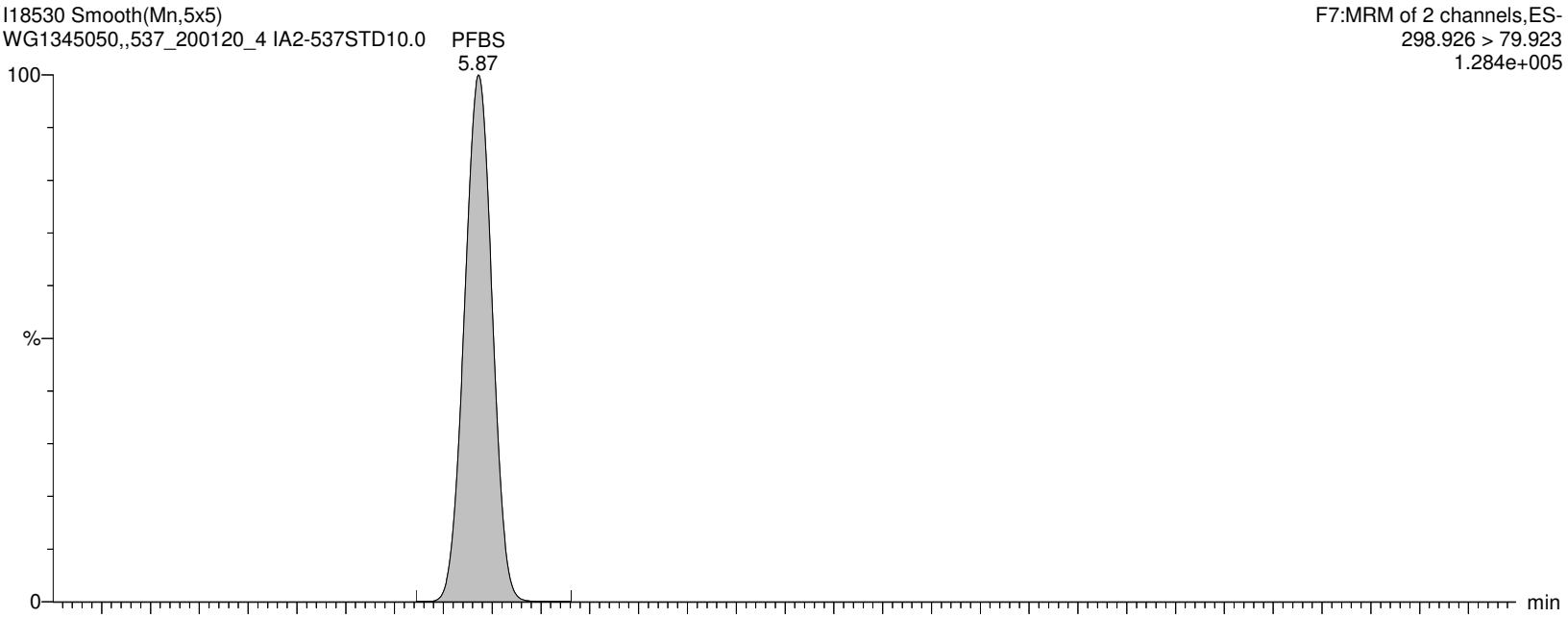

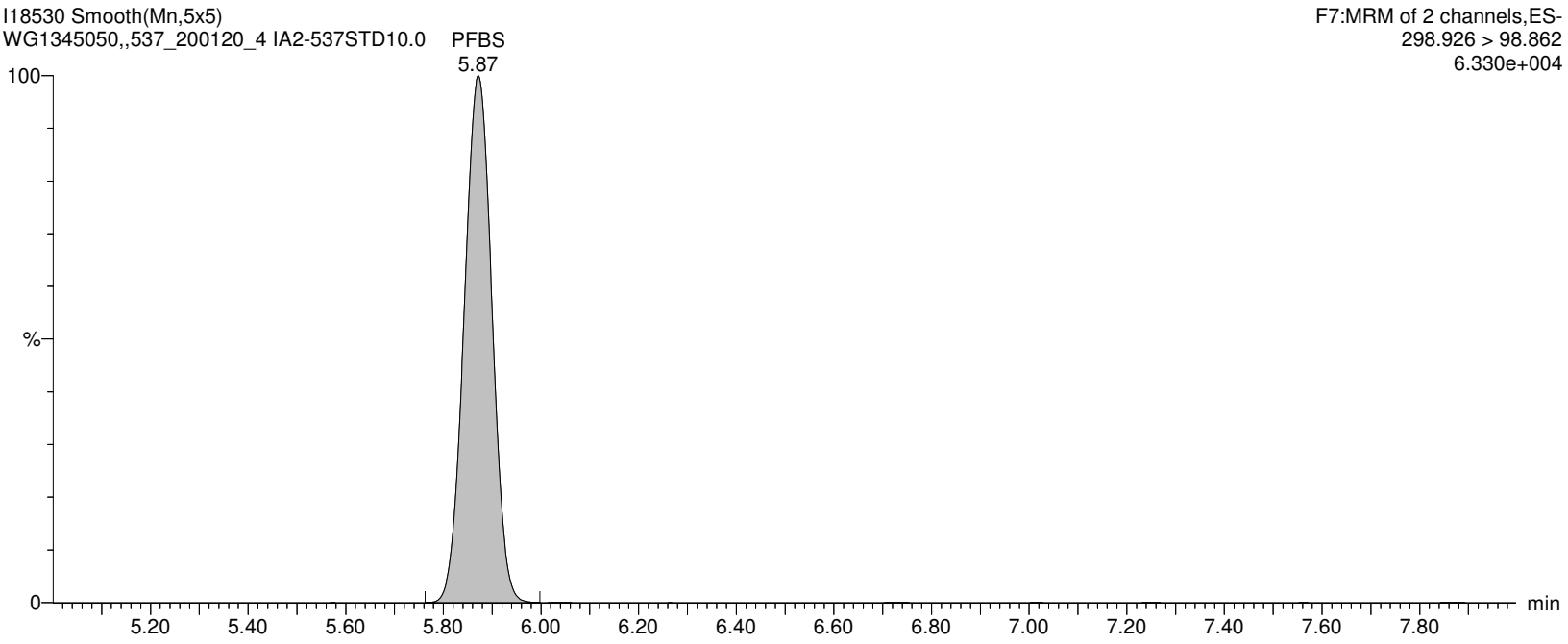

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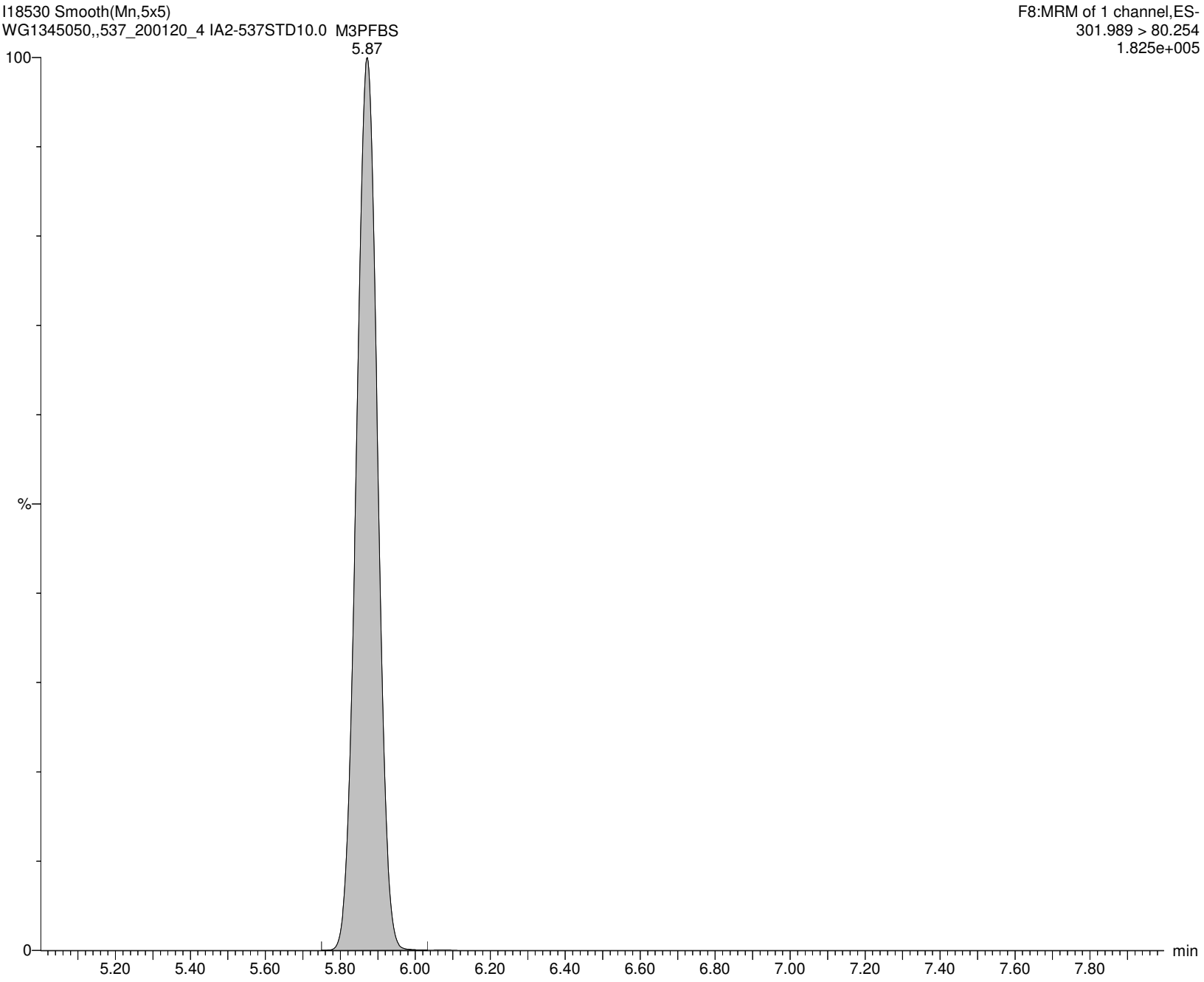
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:49 Eastern Standard Time

Name: I18530
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Date: 27-Feb-2020
Time: 14:18:52
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Instrument: XEVO-TQSmicro#QEA0276
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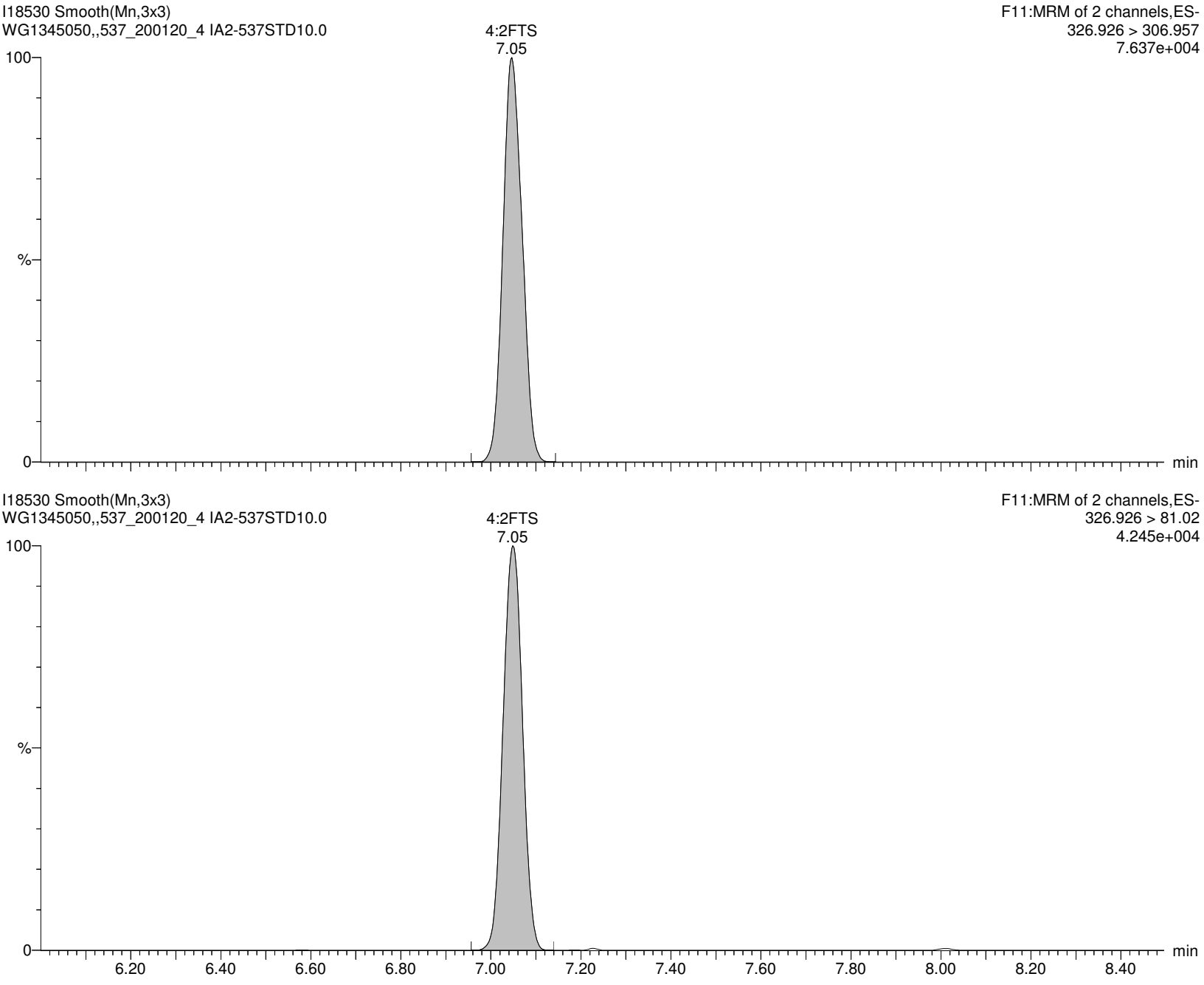

all concentration units in (ng/mL)

Alpha Analytical Inc.
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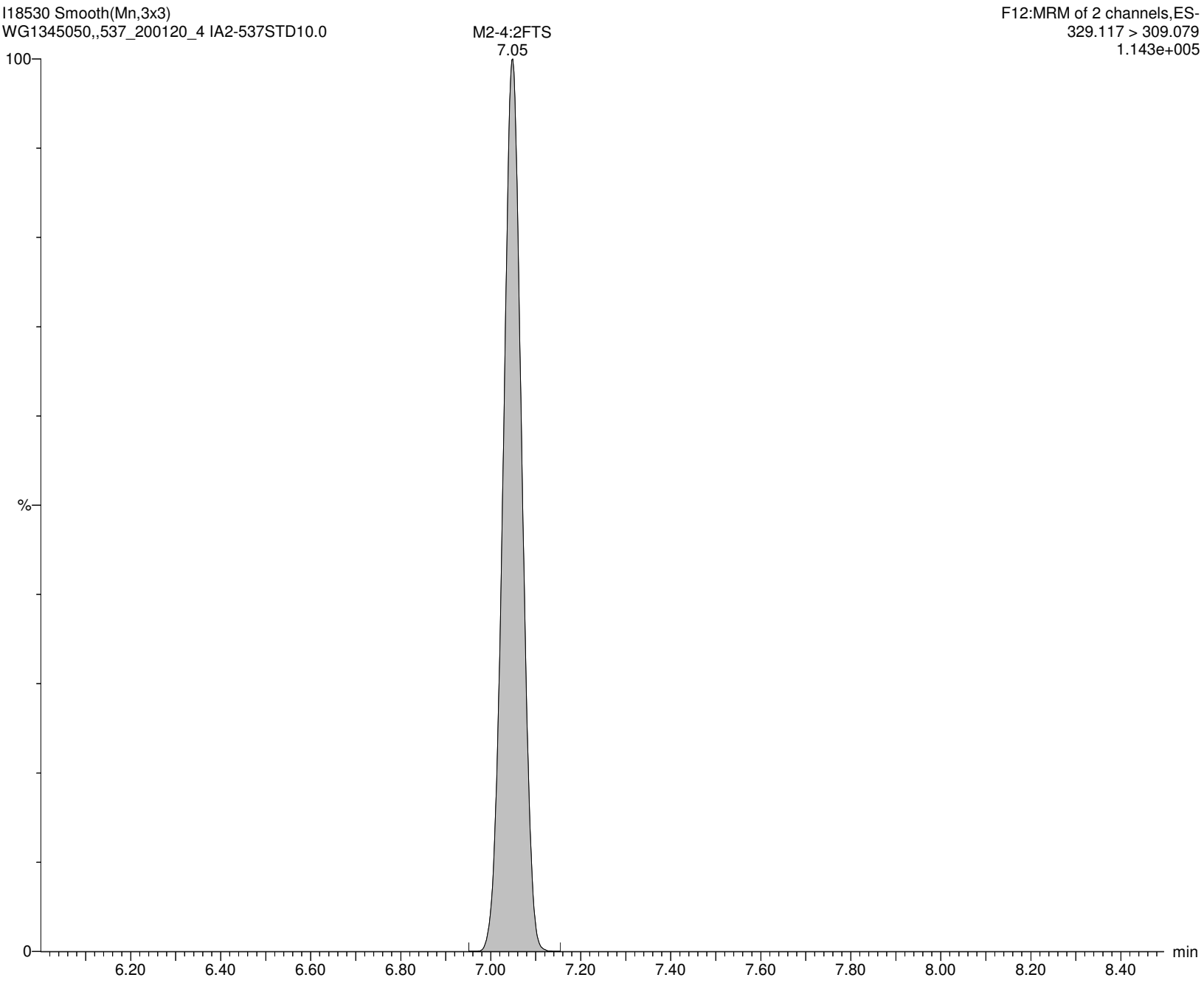

all concentration units in (ng/mL)

Alpha Analytical Inc.
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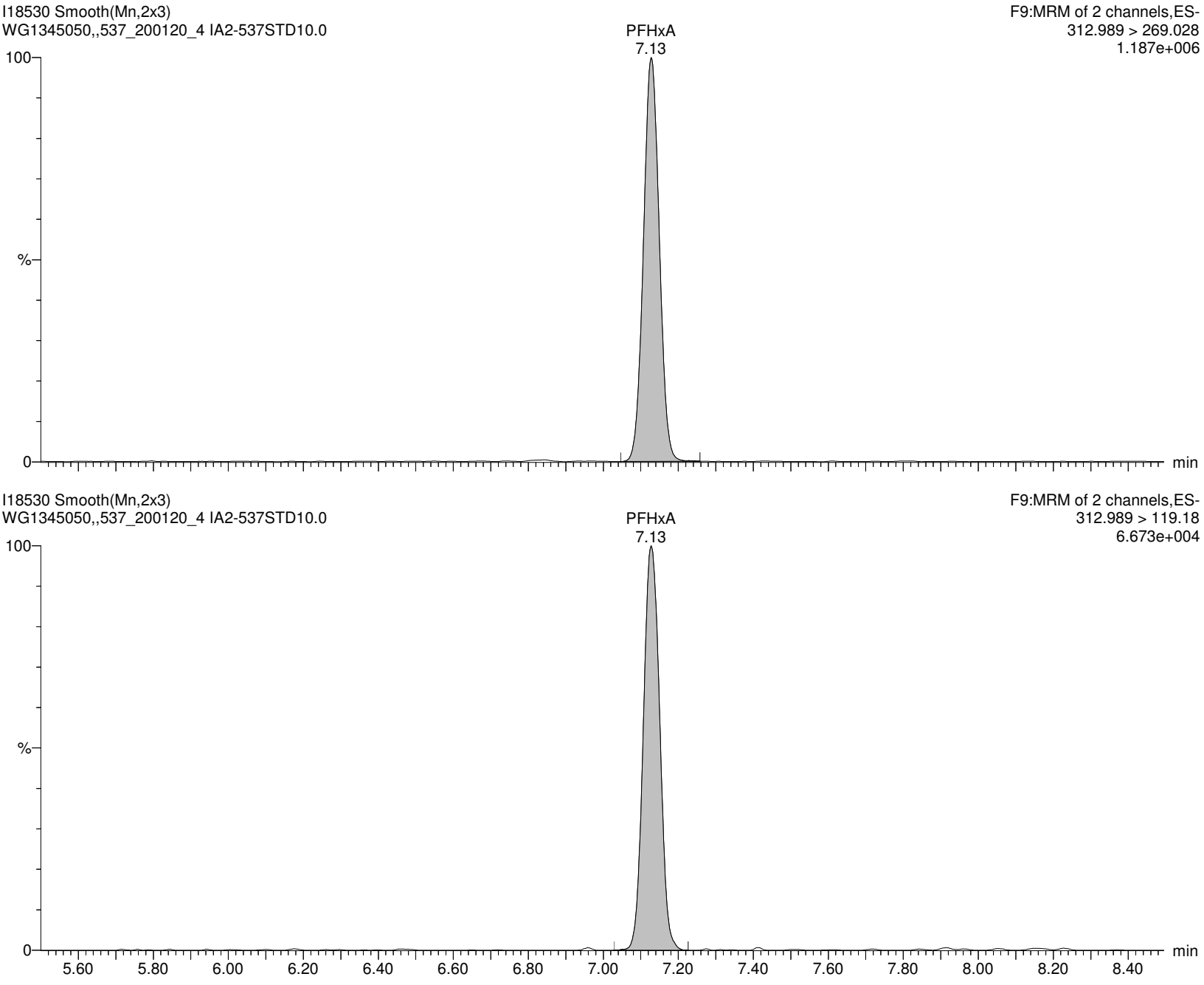

all concentration units in (ng/mL)

Alpha Analytical Inc.
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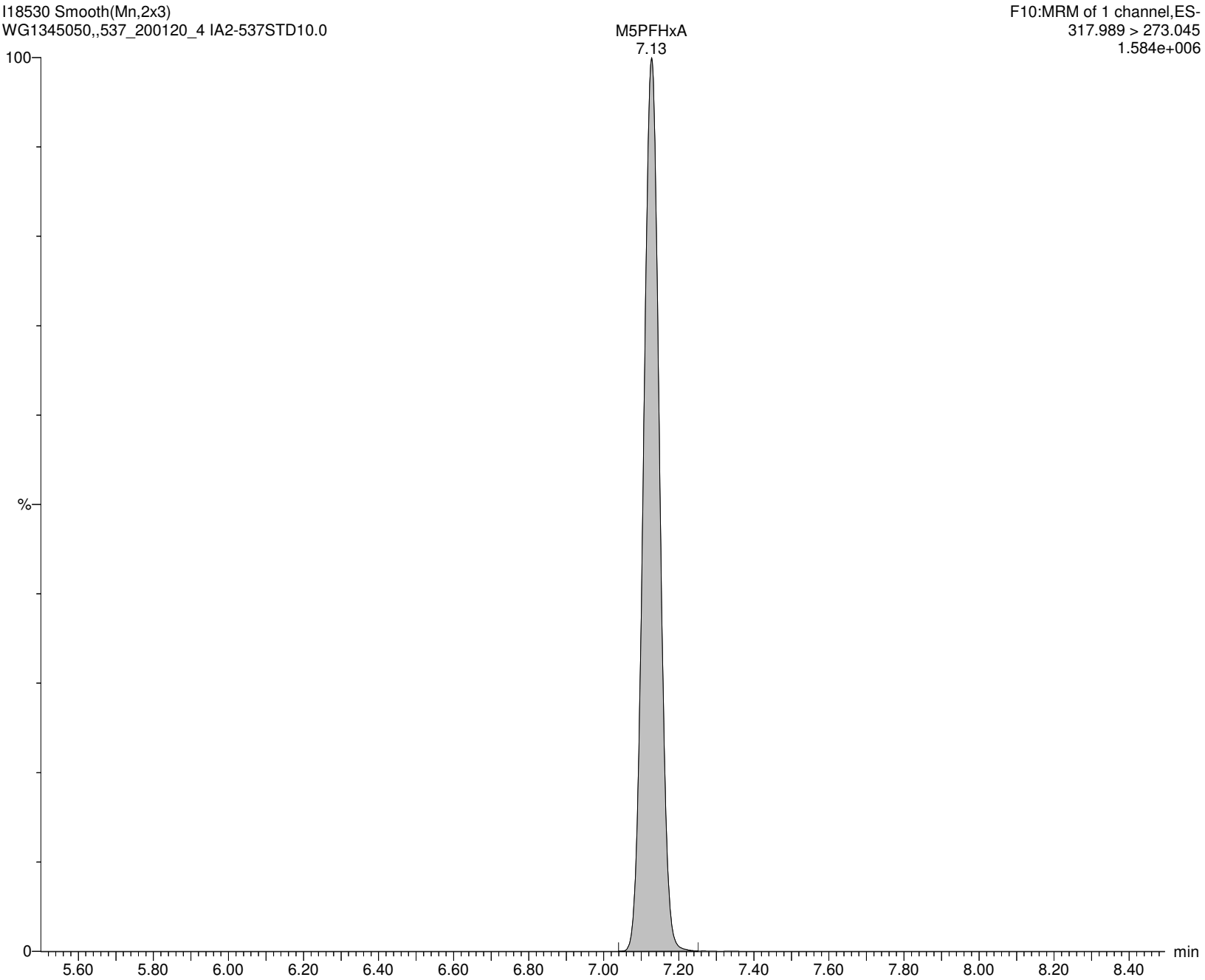

all concentration units in (ng/mL)

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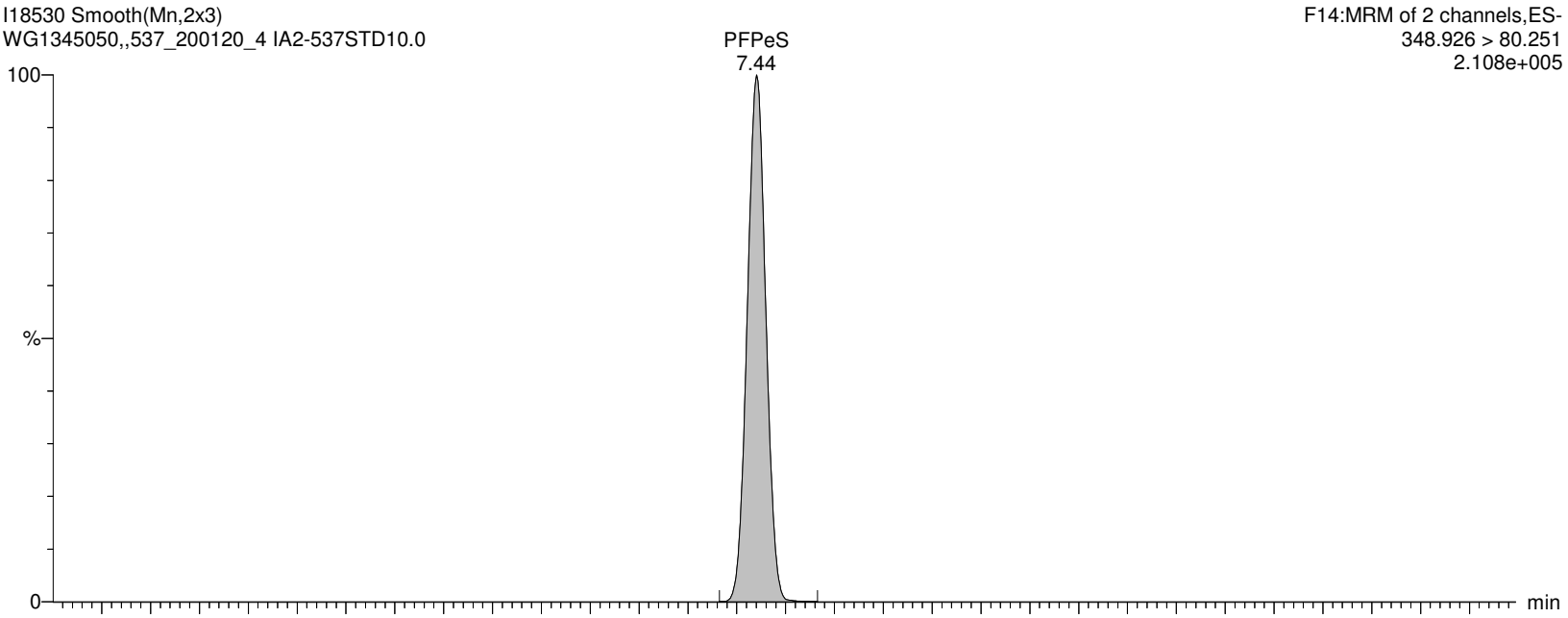

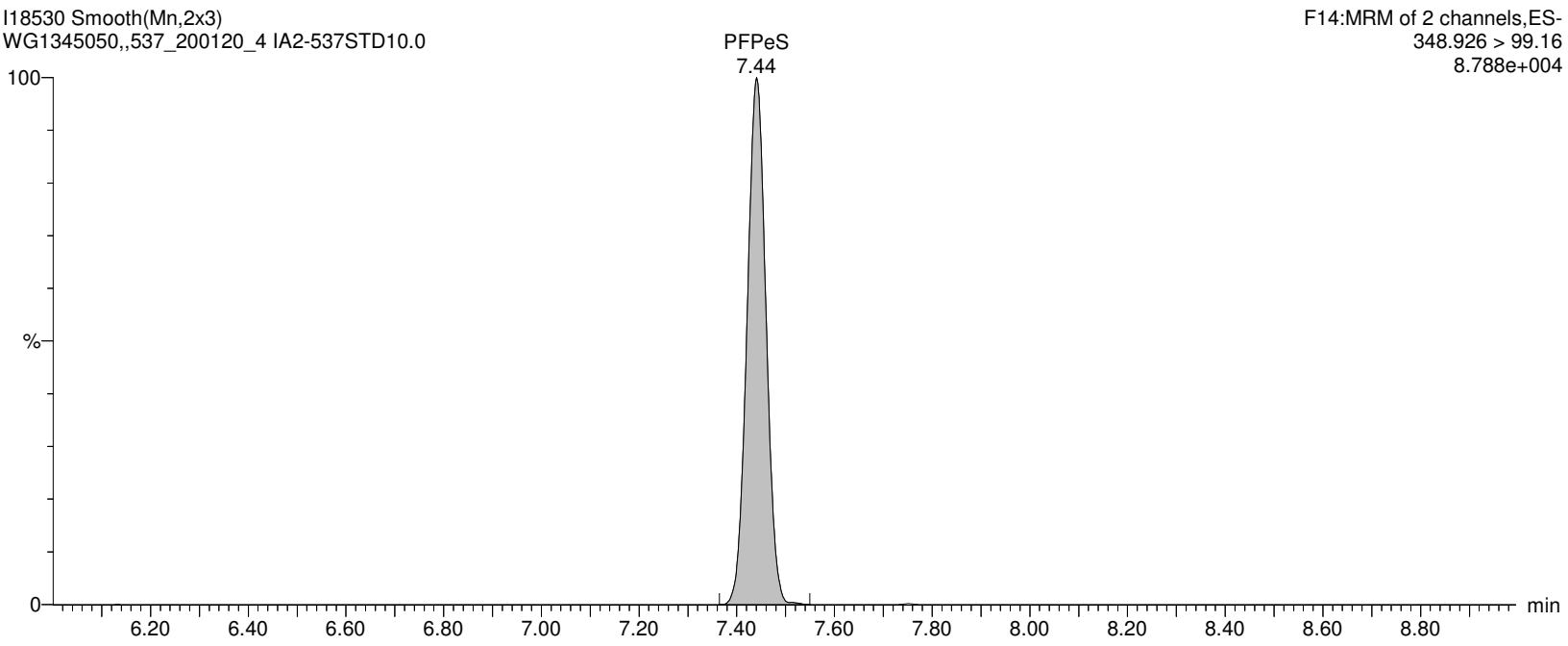

all concentration units in (ng/mL)

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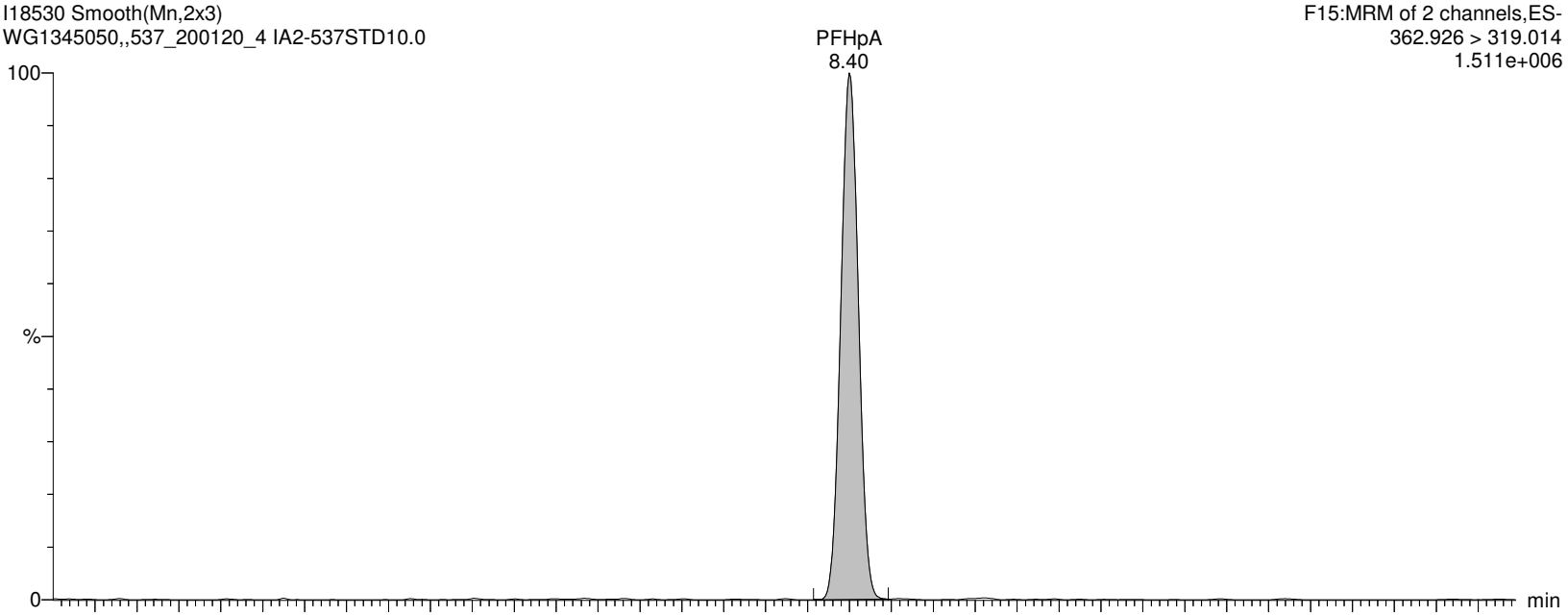

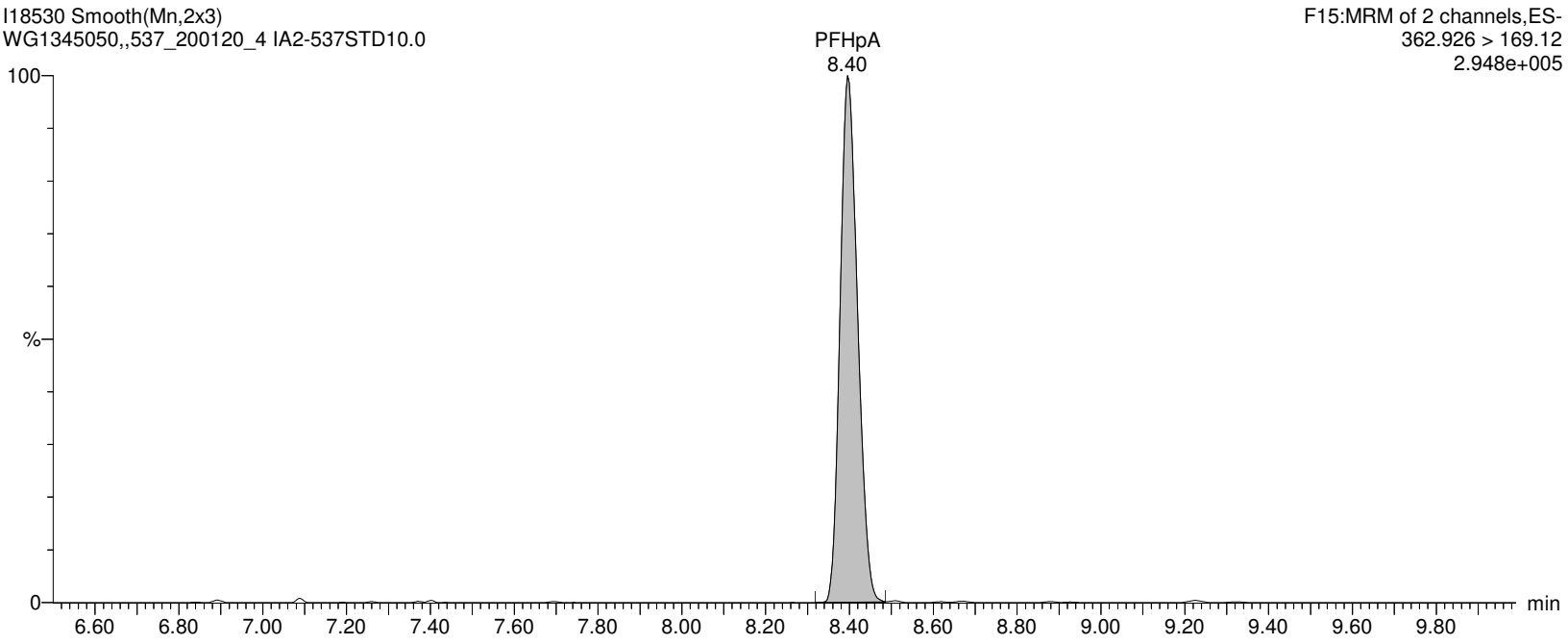

all concentration units in (ng/mL)

Alpha Analytical Inc.
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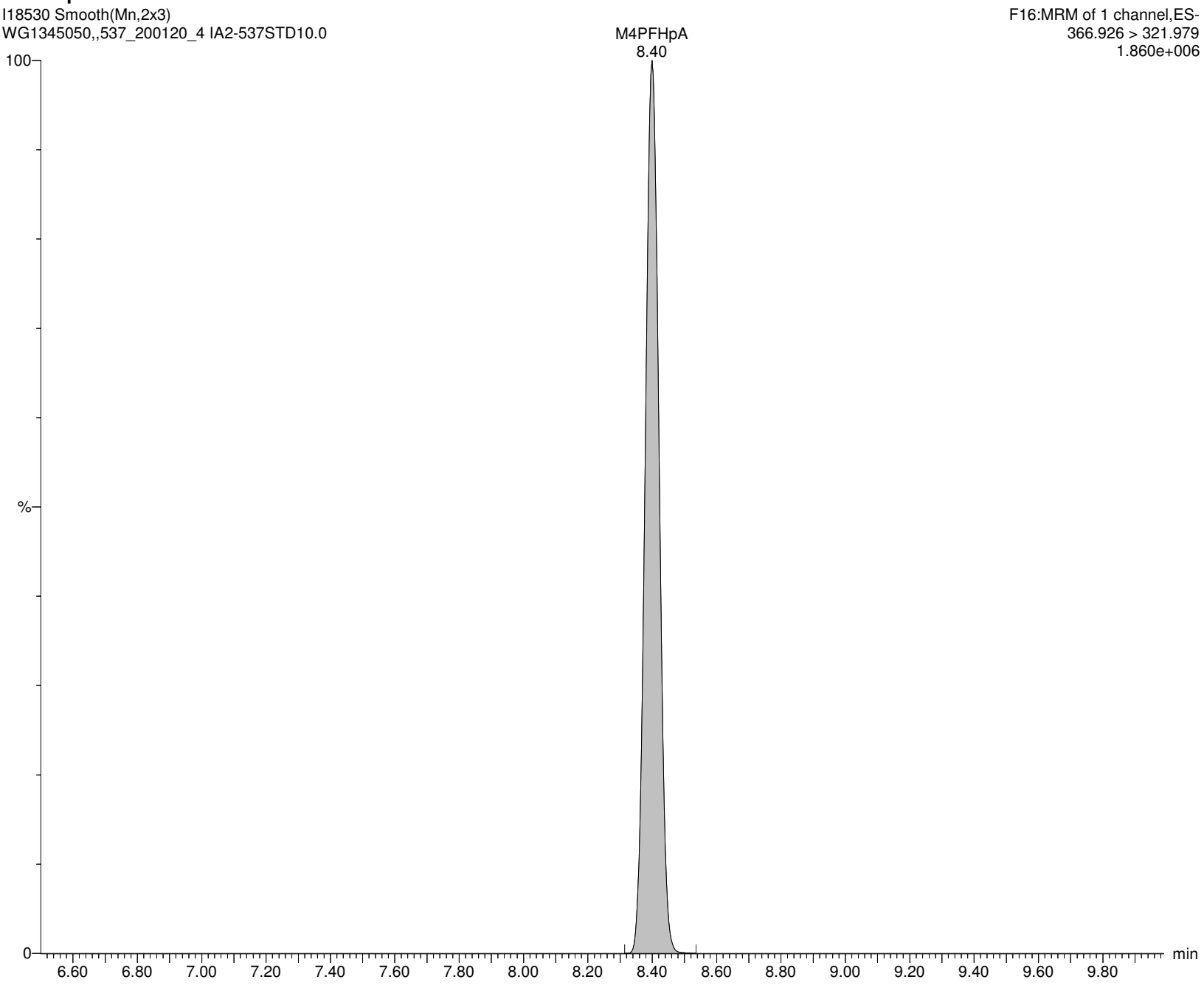

all concentration units in (ng/mL)

Alpha Analytical Inc.
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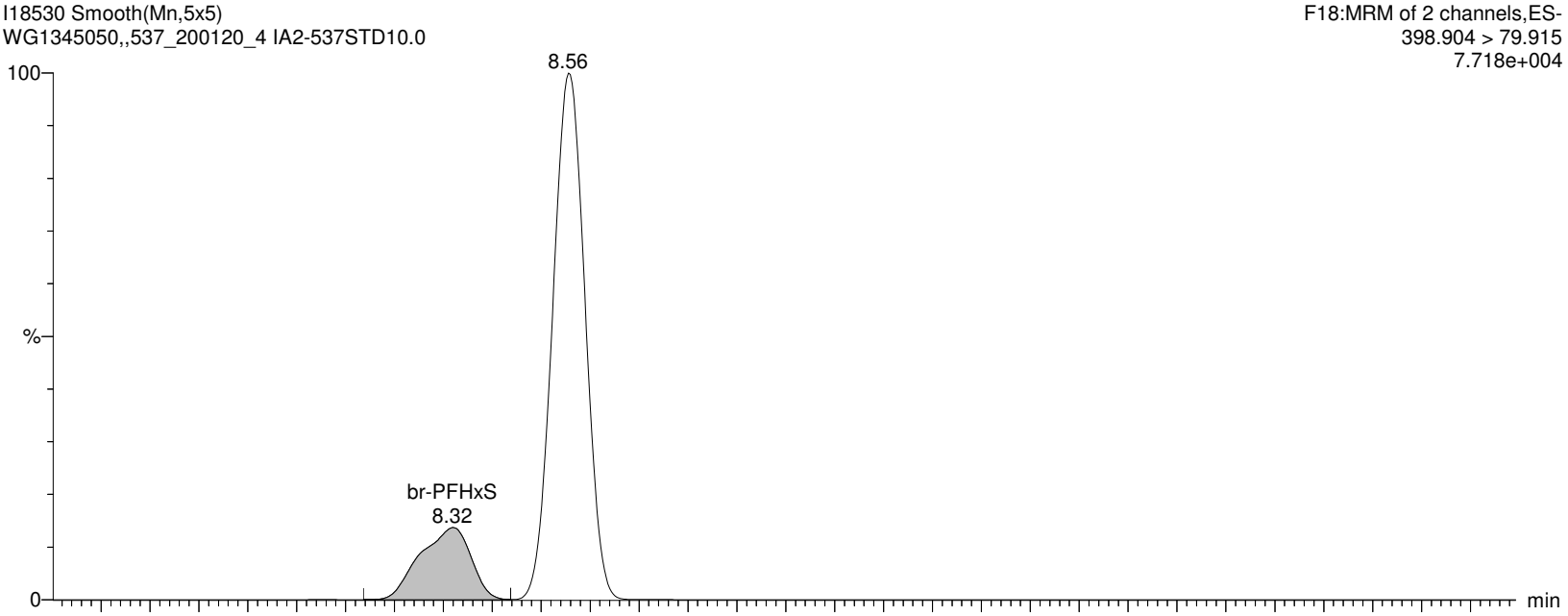

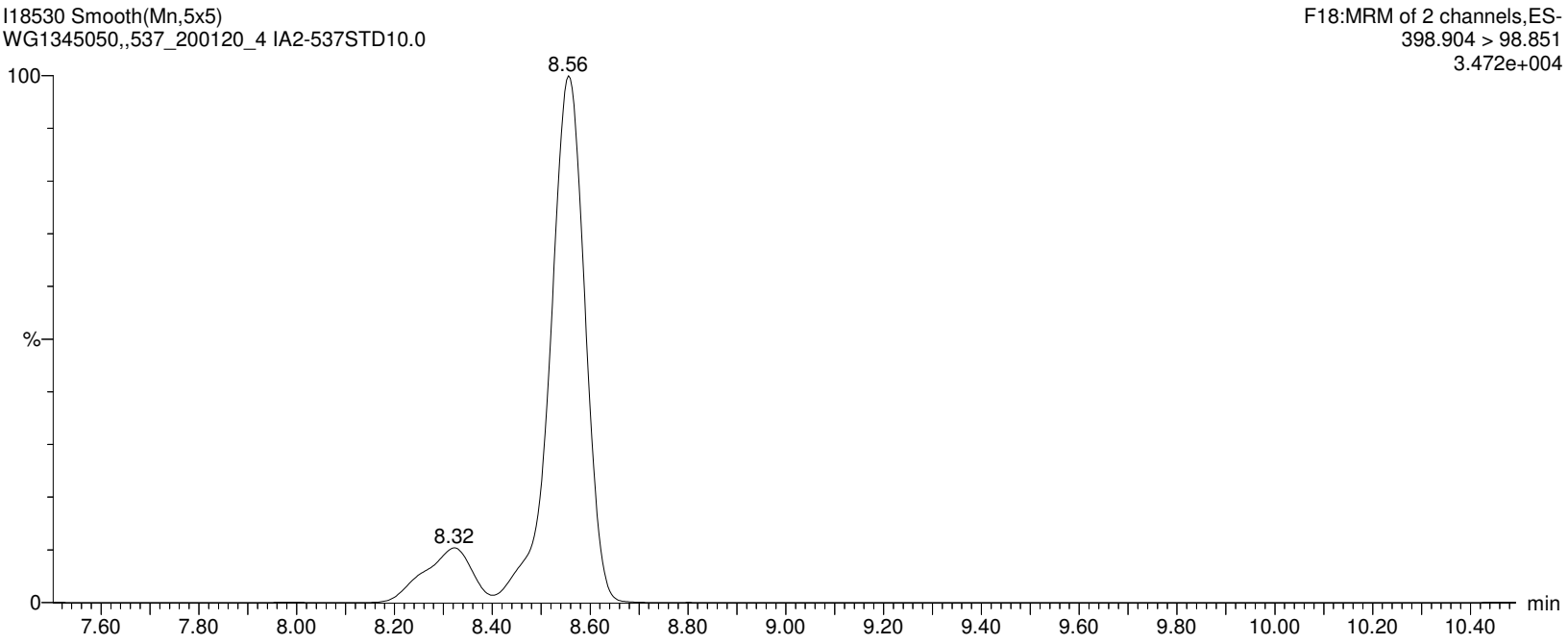

all concentration units in (ng/mL)

Alpha Analytical Inc.
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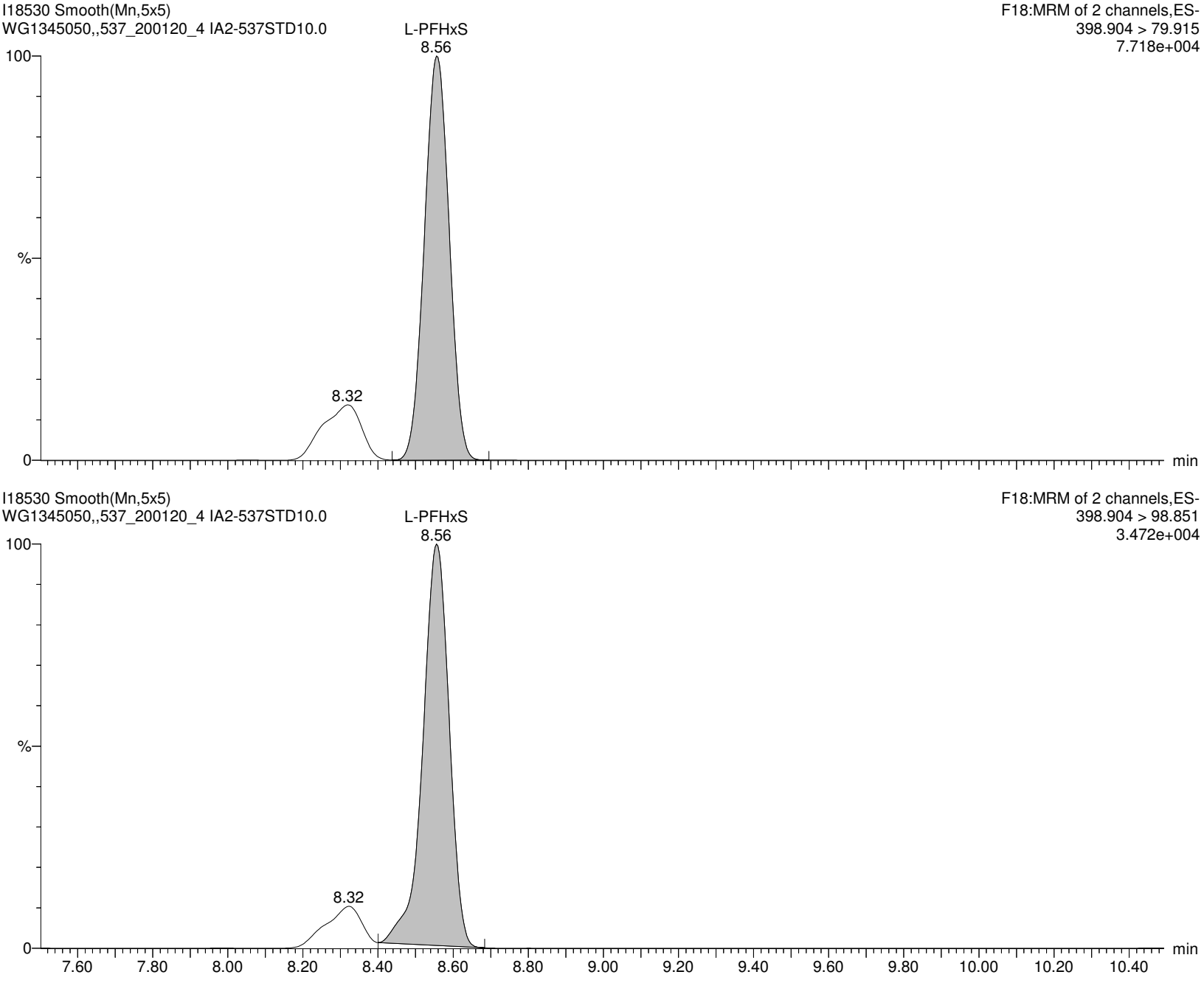

all concentration units in (ng/mL)

Alpha Analytical Inc.
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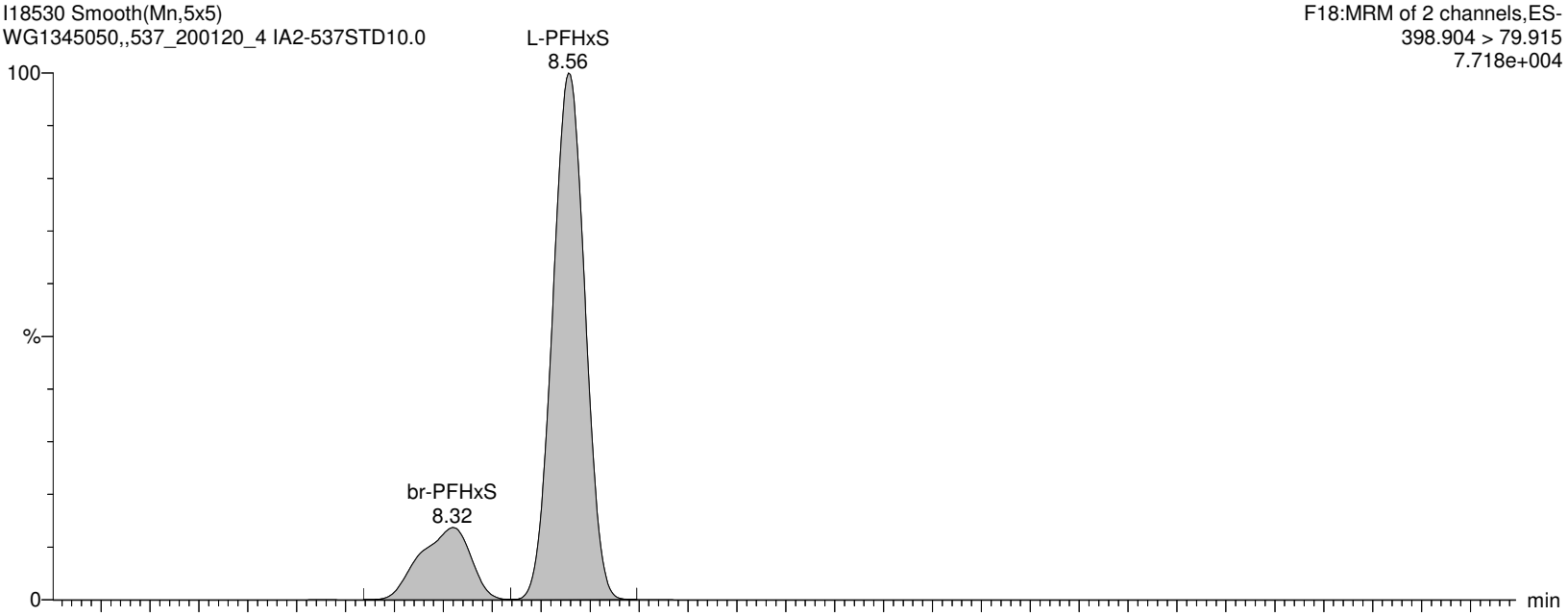

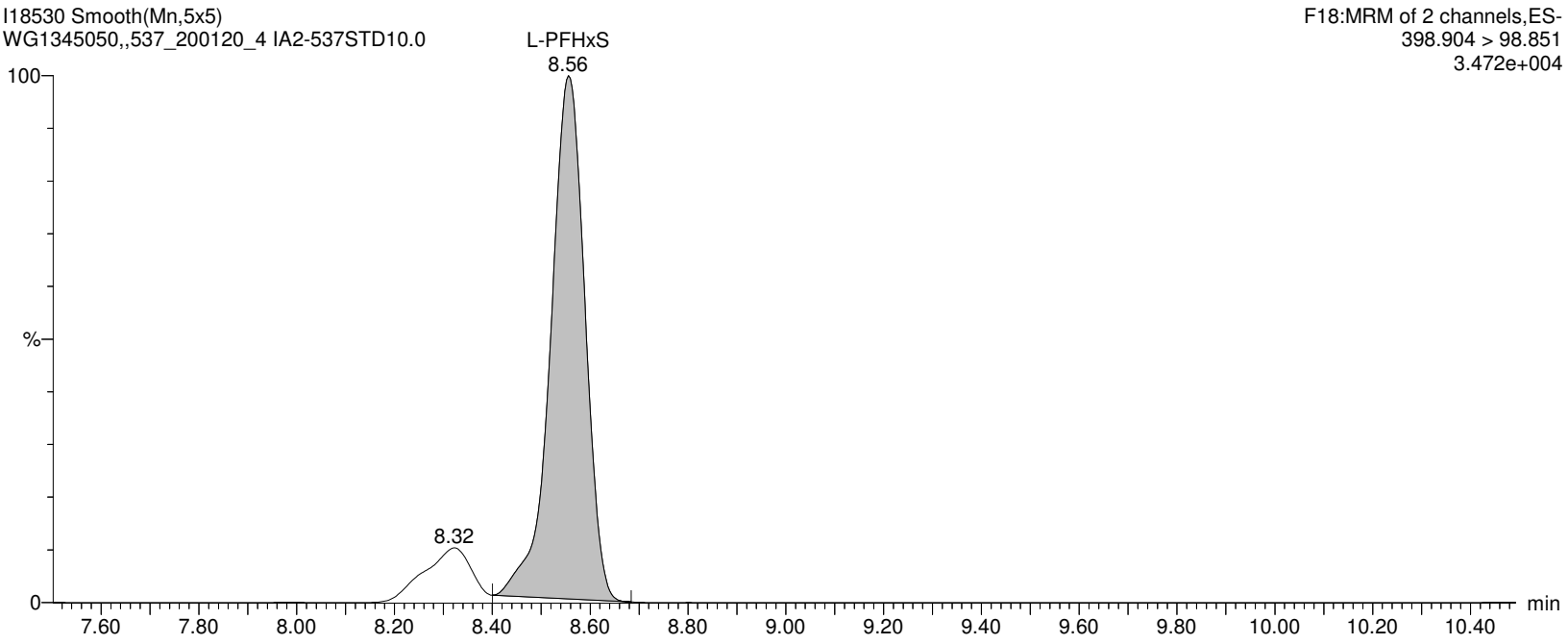

all concentration units in (ng/mL)

Alpha Analytical Inc.
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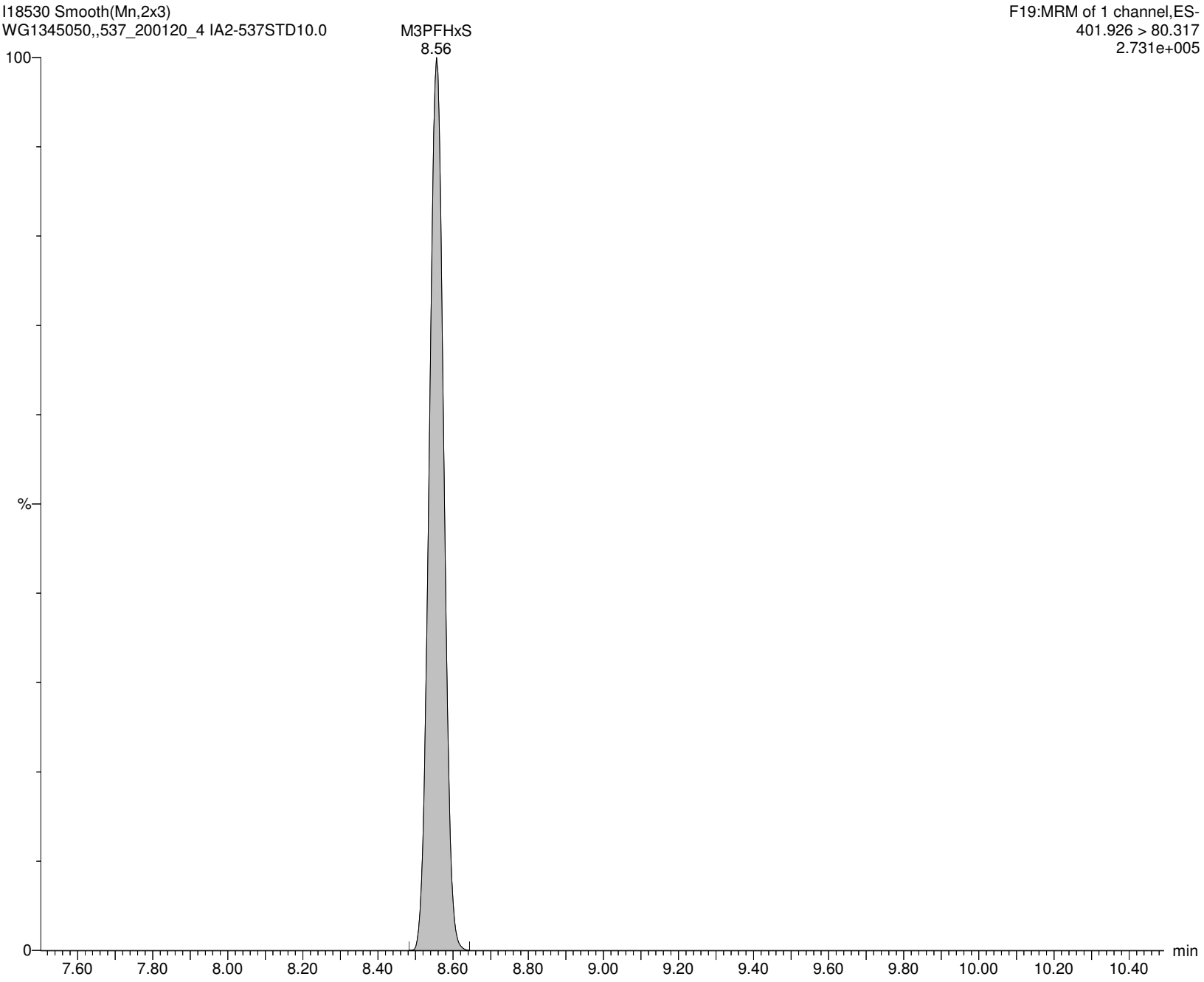
M3PFHxS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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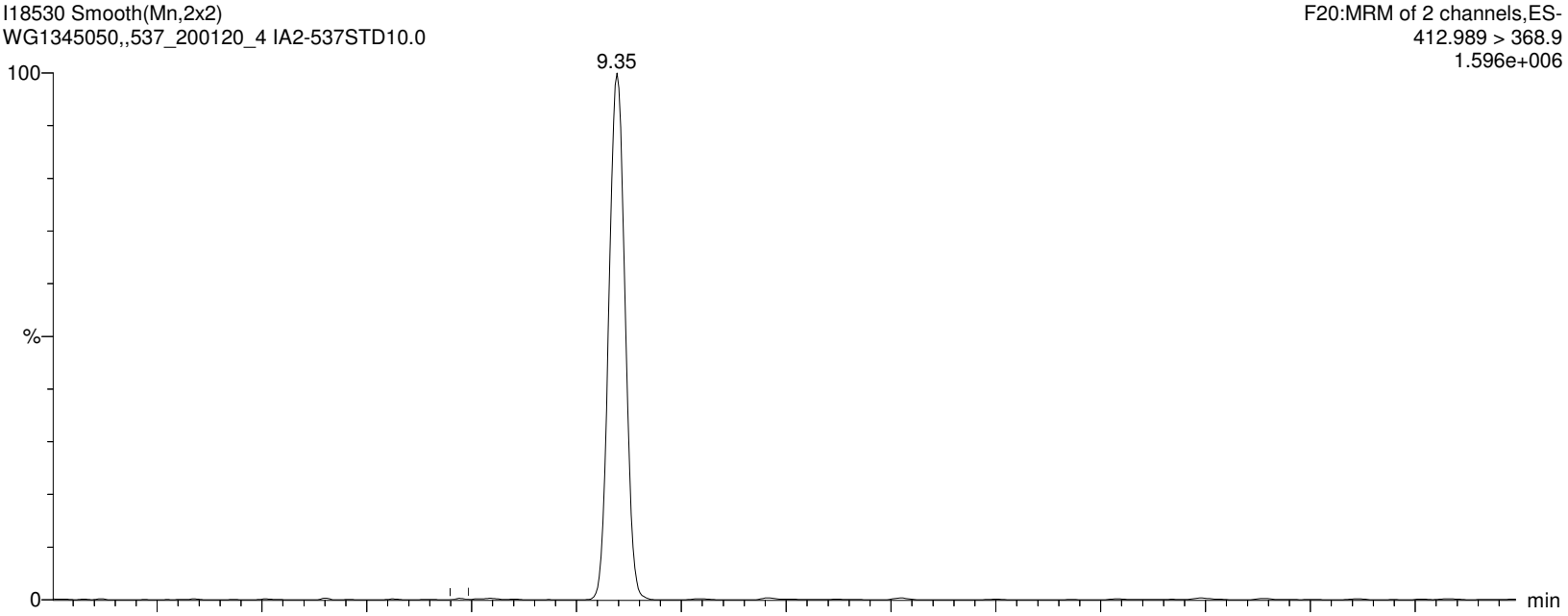

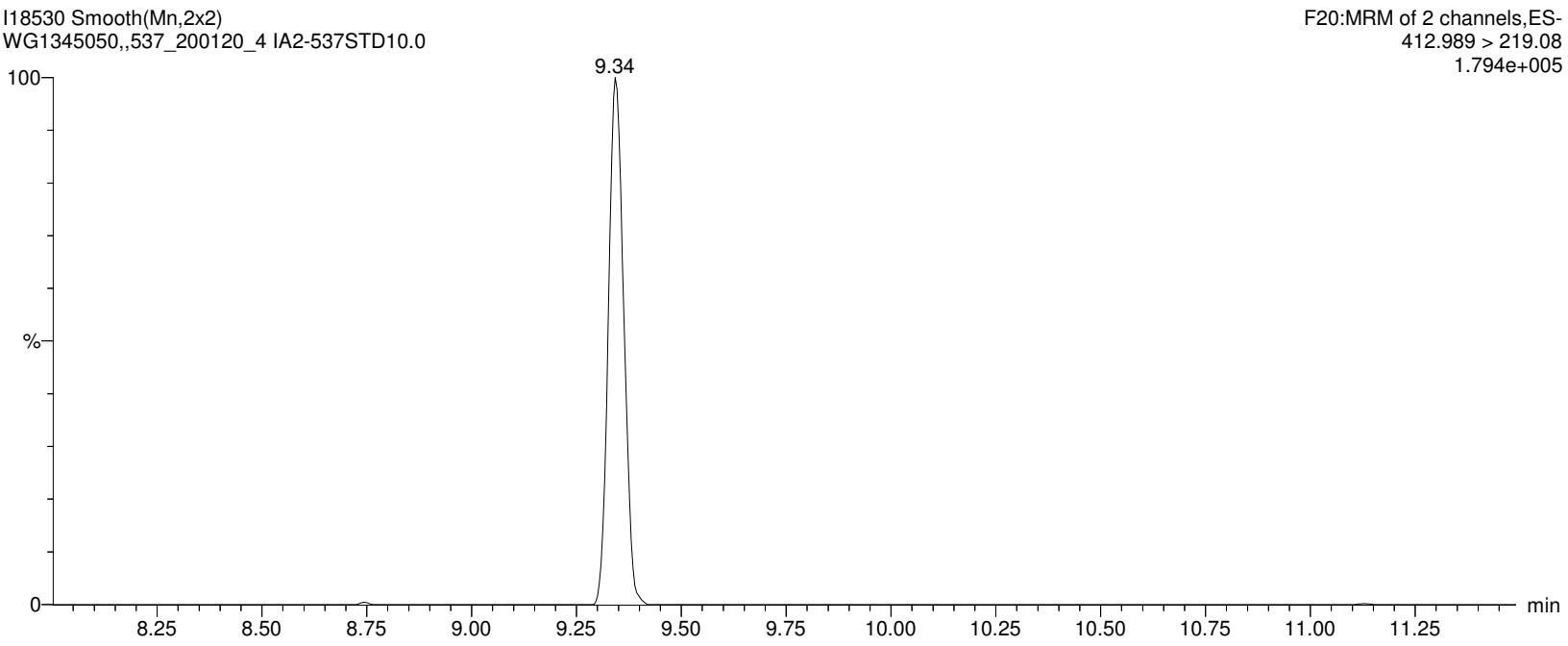

all concentration units in (ng/mL)

Alpha Analytical Inc.
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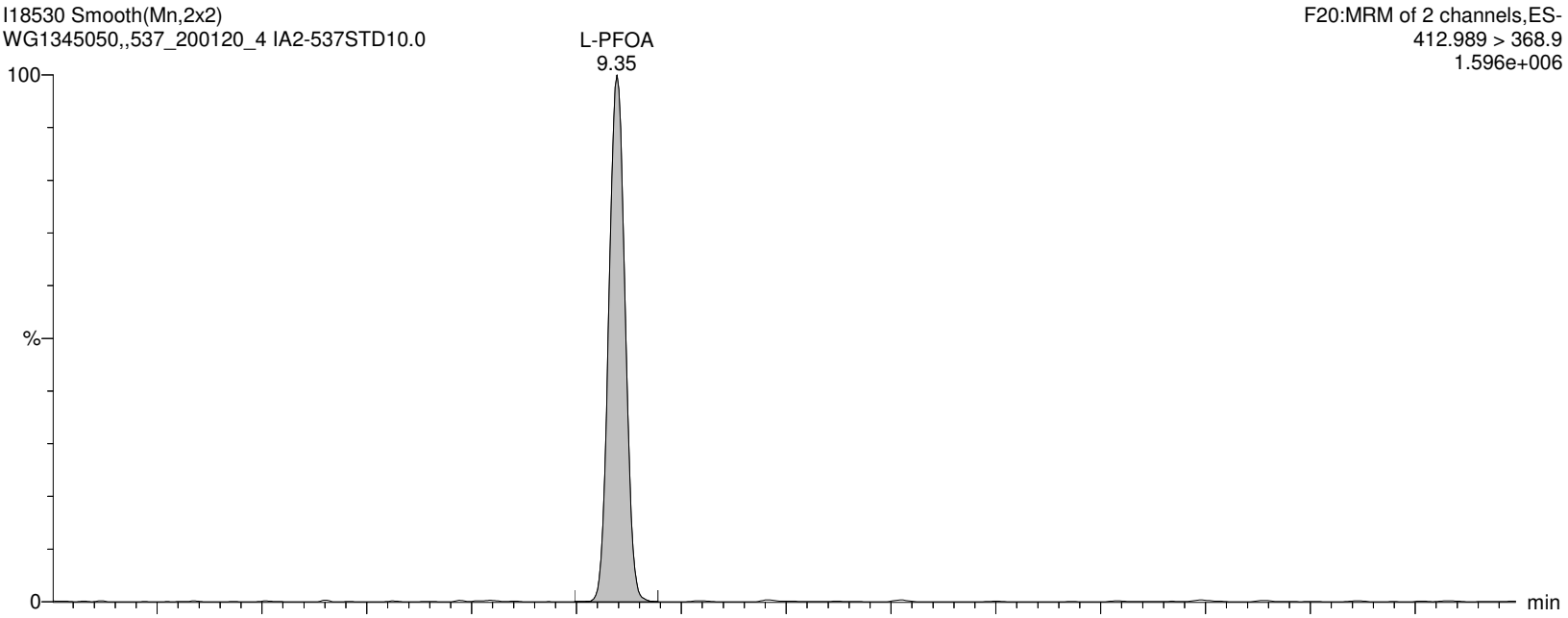

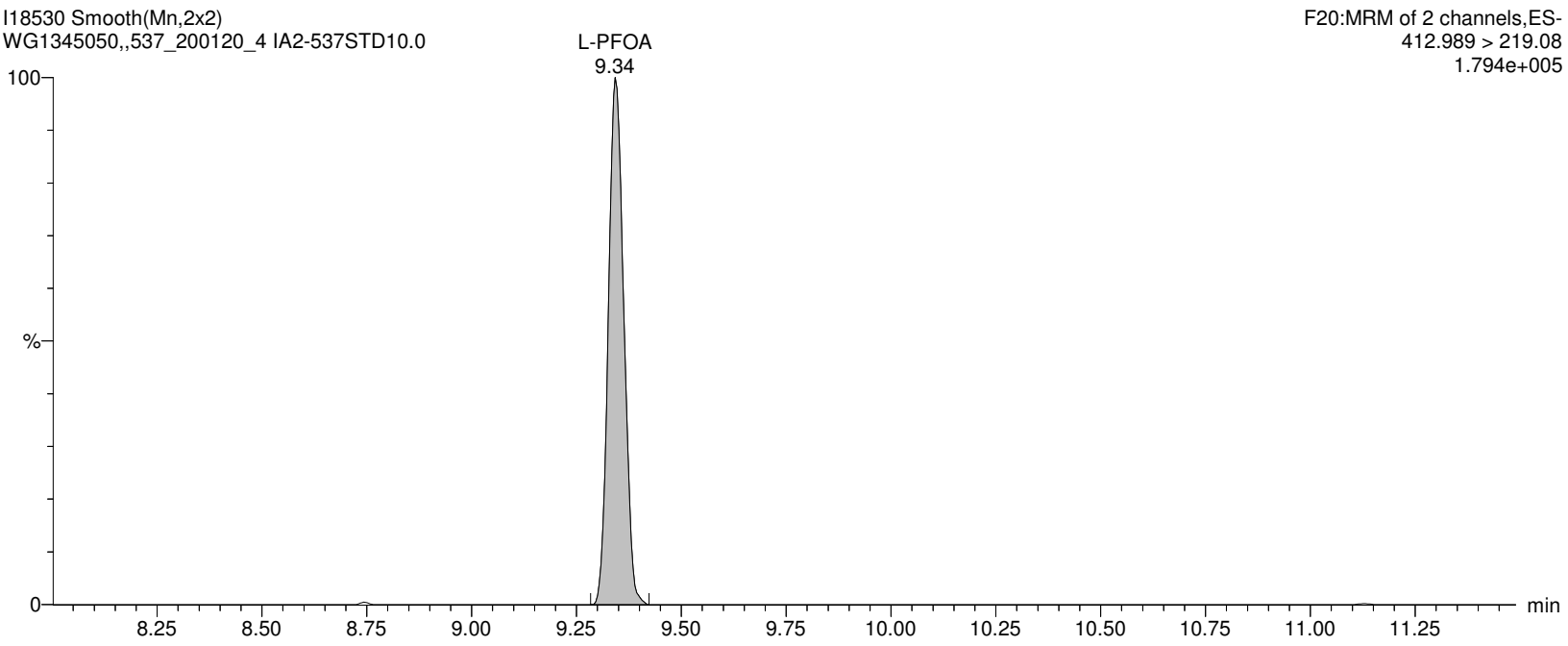

all concentration units in (ng/mL)

Alpha Analytical Inc.
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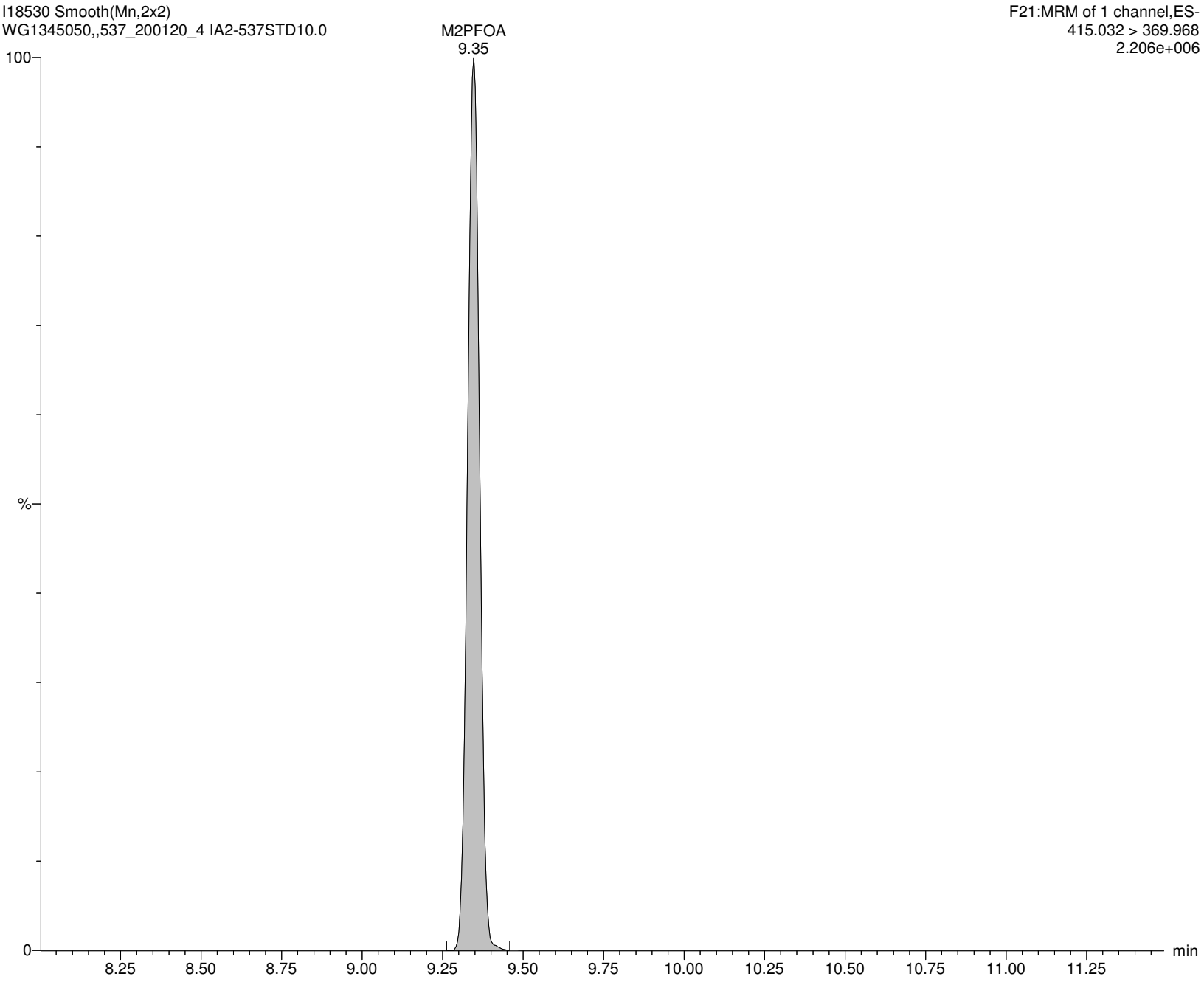

all concentration units in (ng/mL)

Alpha Analytical Inc.
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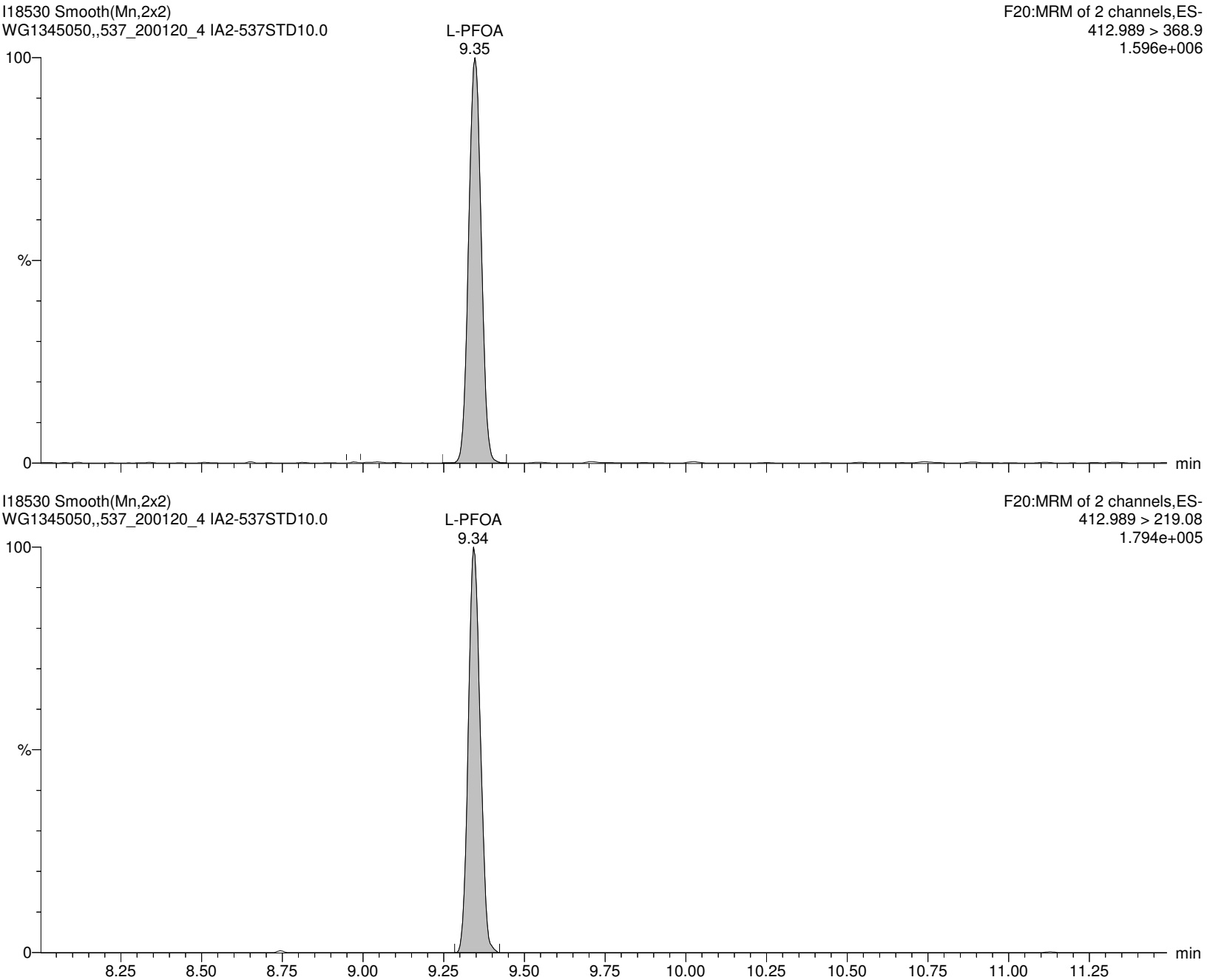

all concentration units in (ng/mL)

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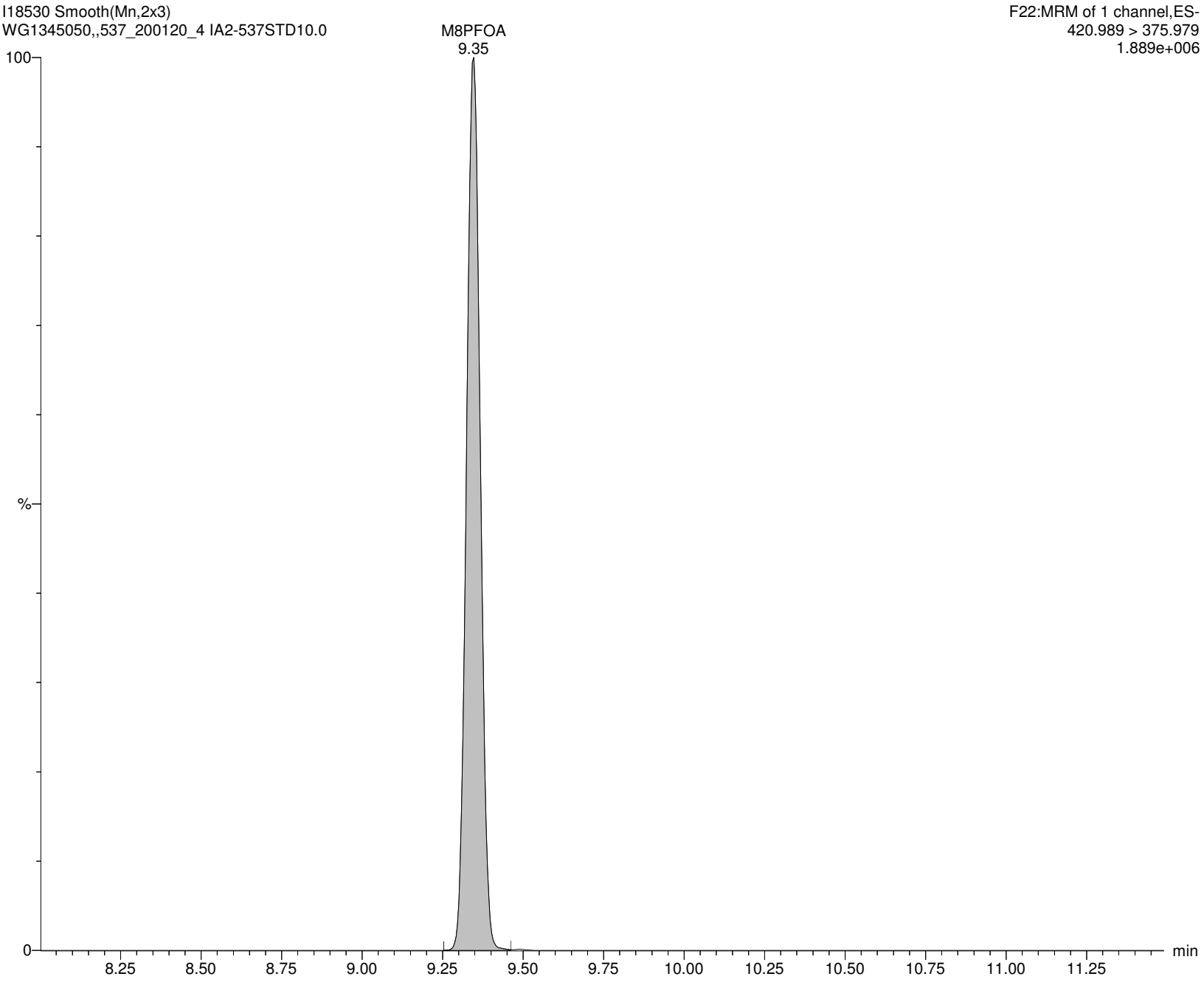

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:49 Eastern Standard Time

Name: I18530
ID: IA2-537STD10.0
Date: 27-Feb-2020
Time: 14:18:52
Description: WG1345050,,537_200120_4
User: LCMS01:SG
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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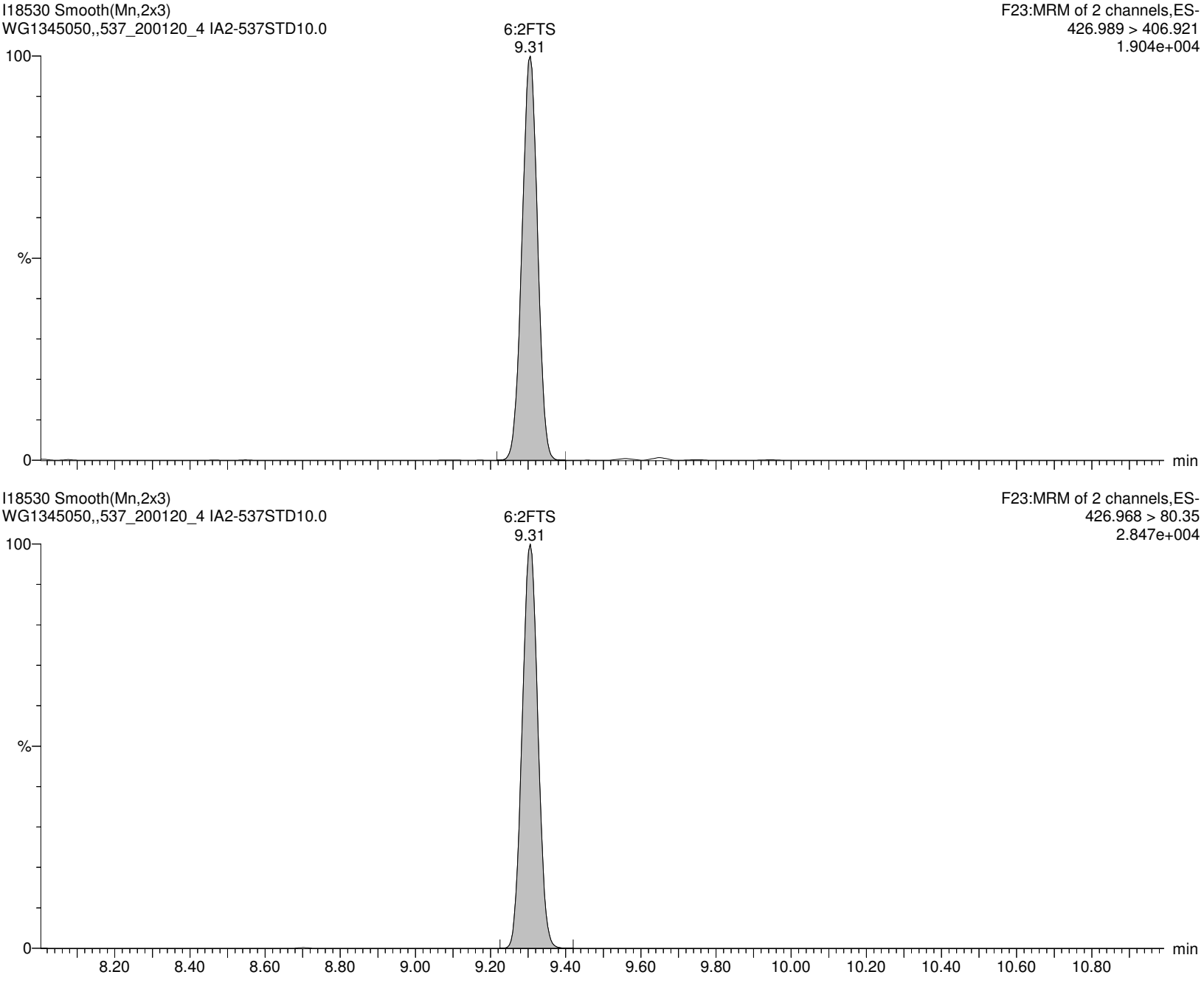
6:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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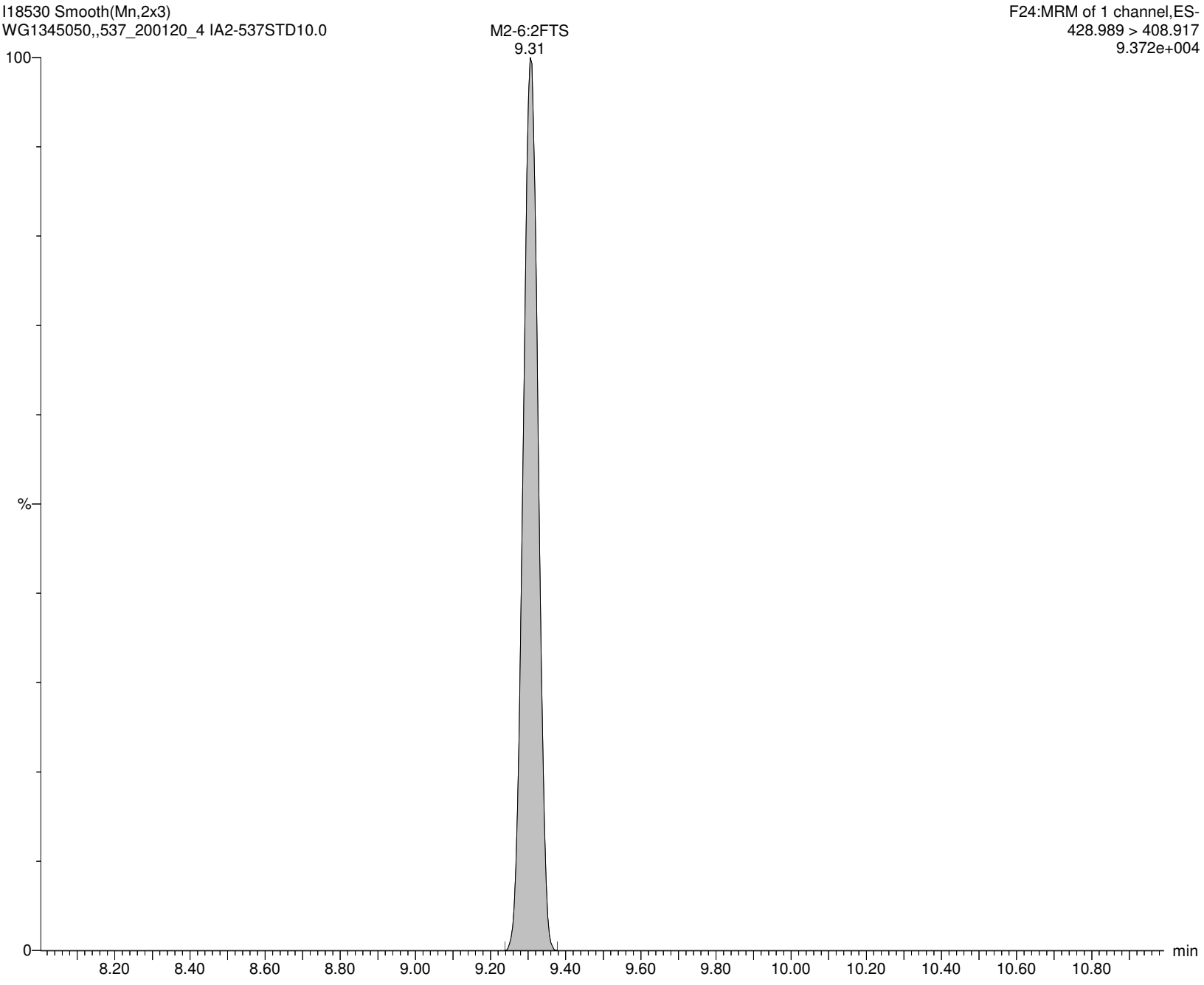

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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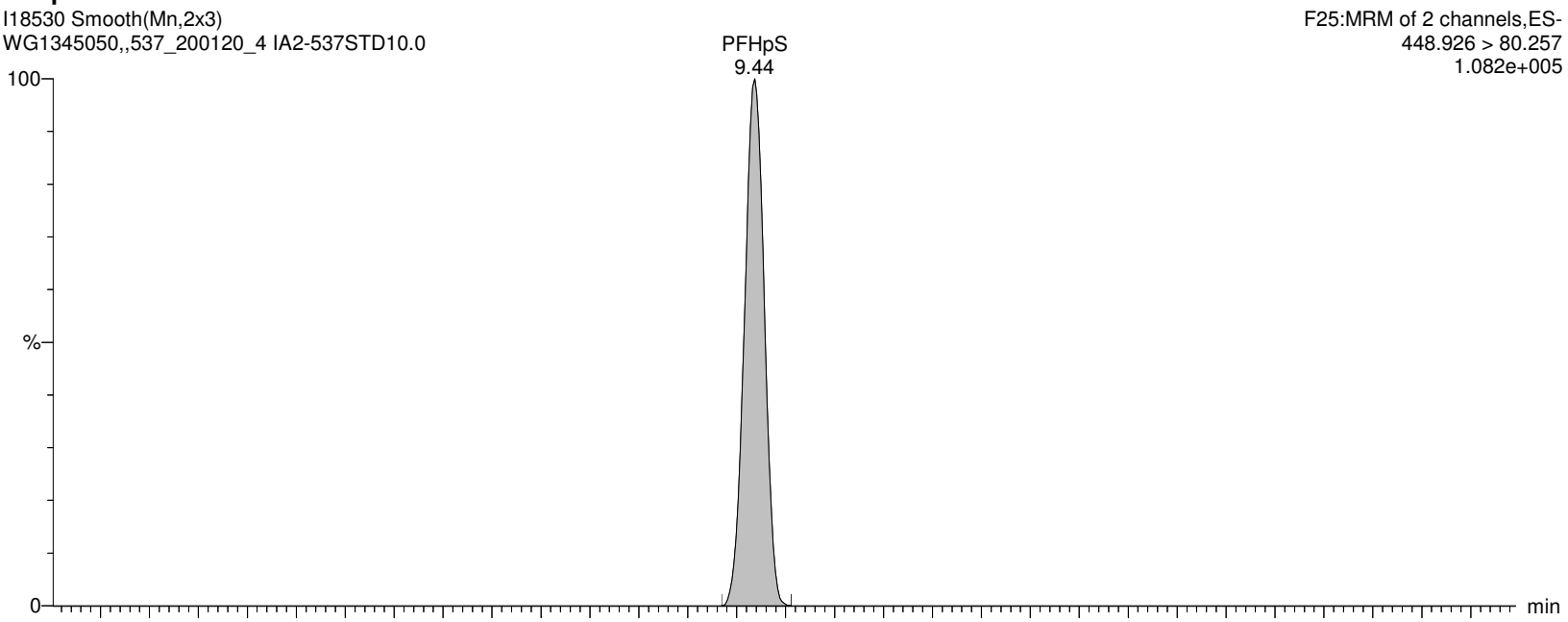

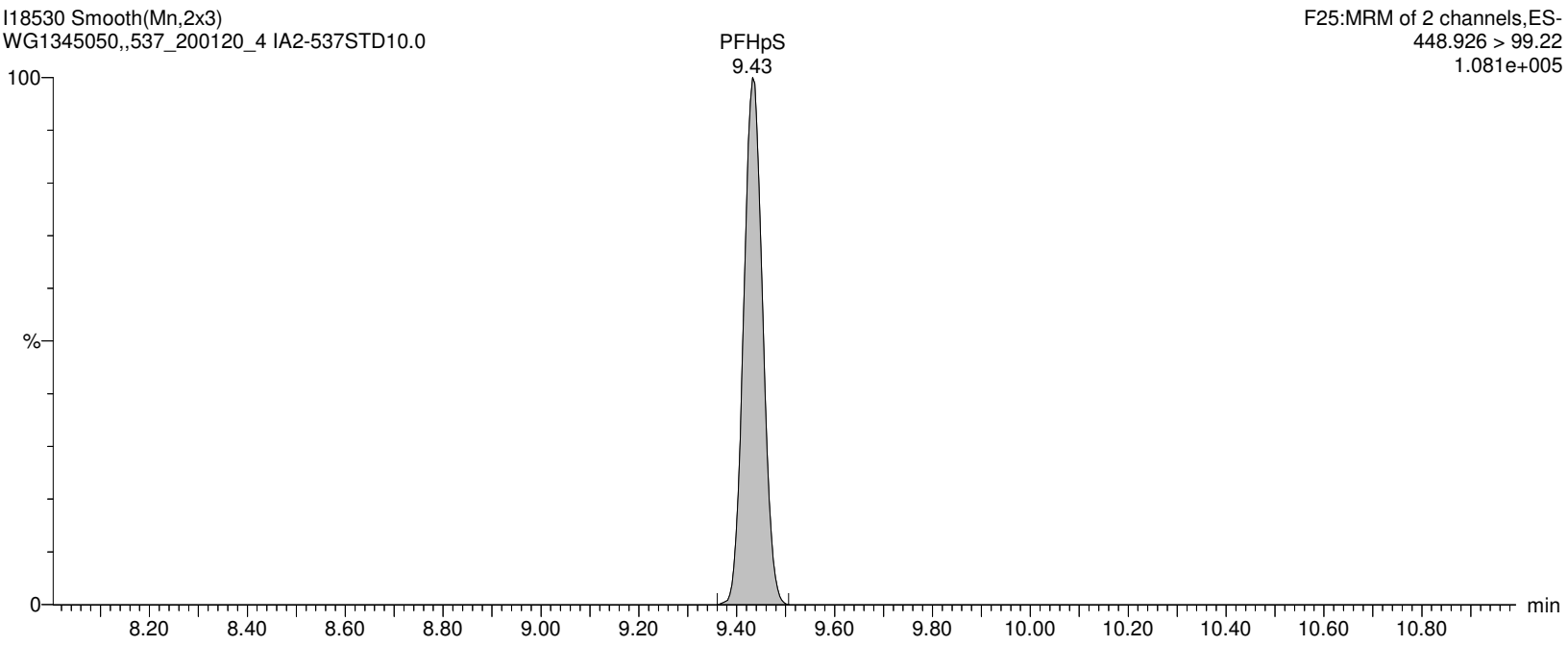

all concentration units in (ng/mL)

Alpha Analytical Inc.
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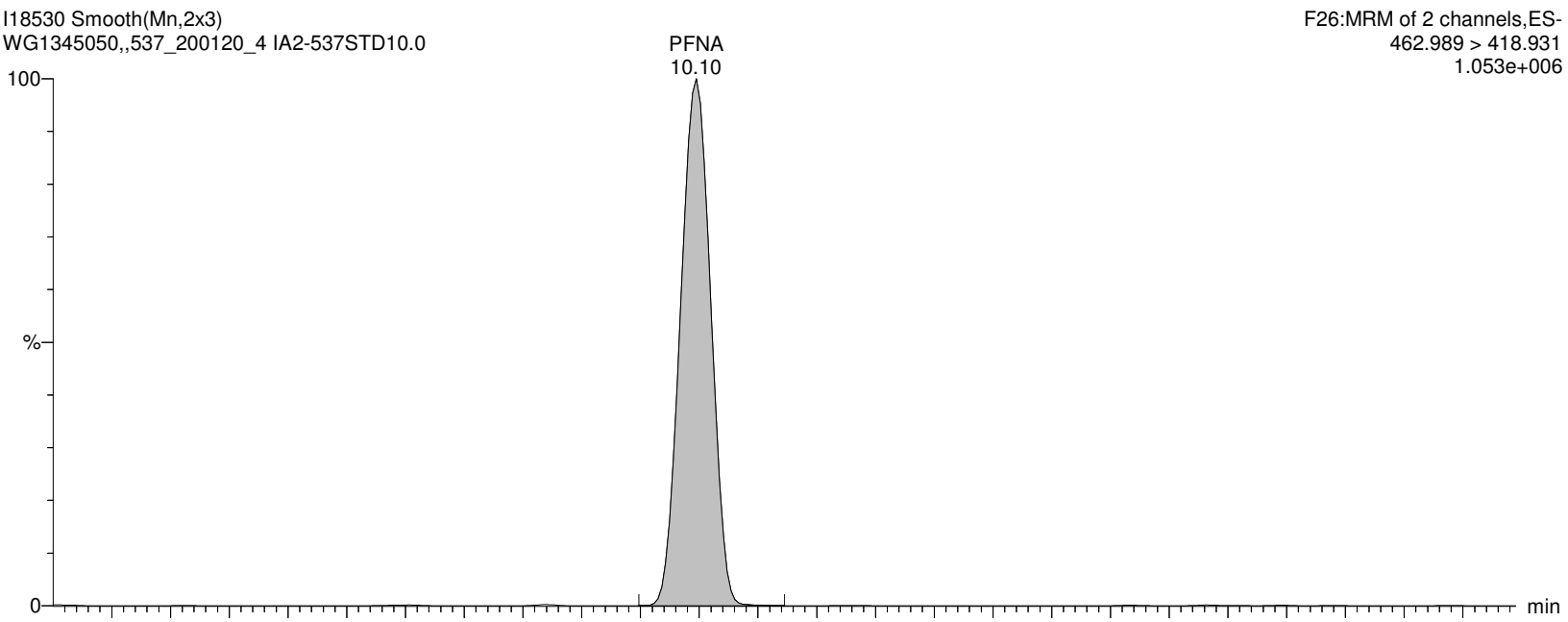

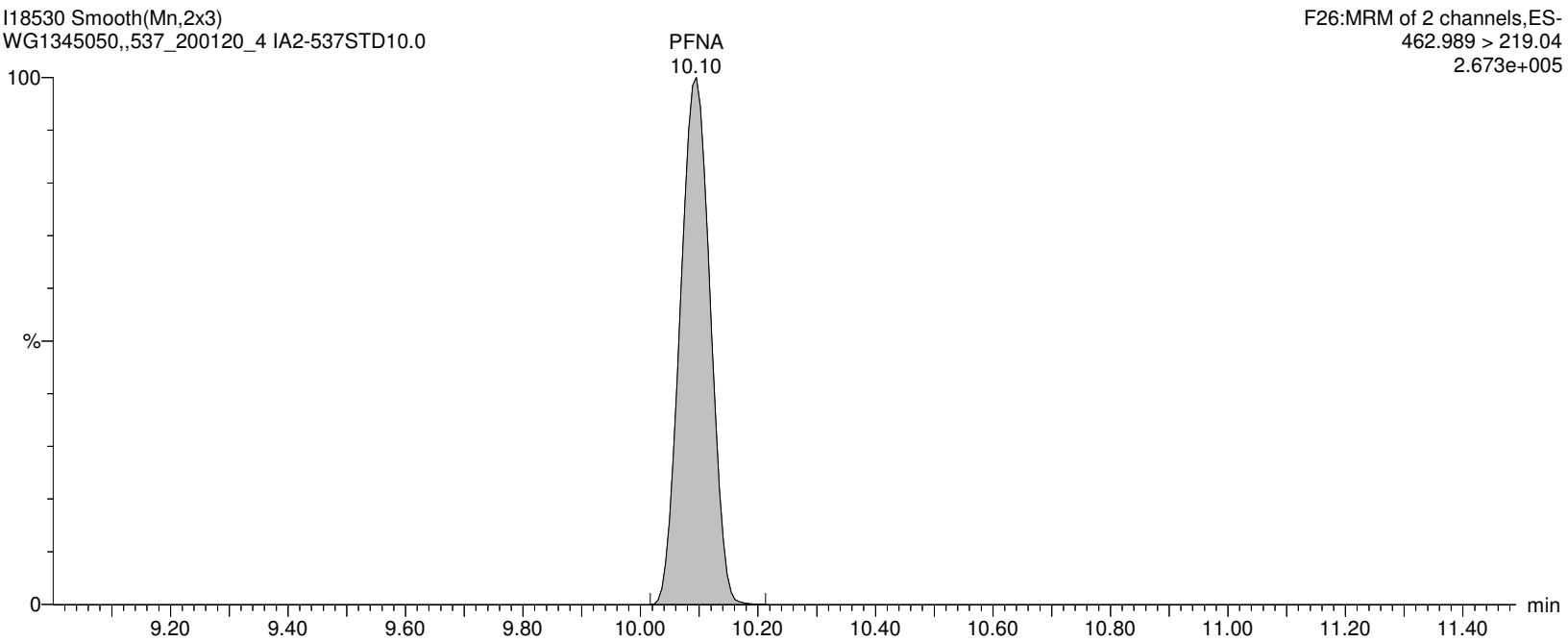

all concentration units in (ng/mL)

Alpha Analytical Inc.
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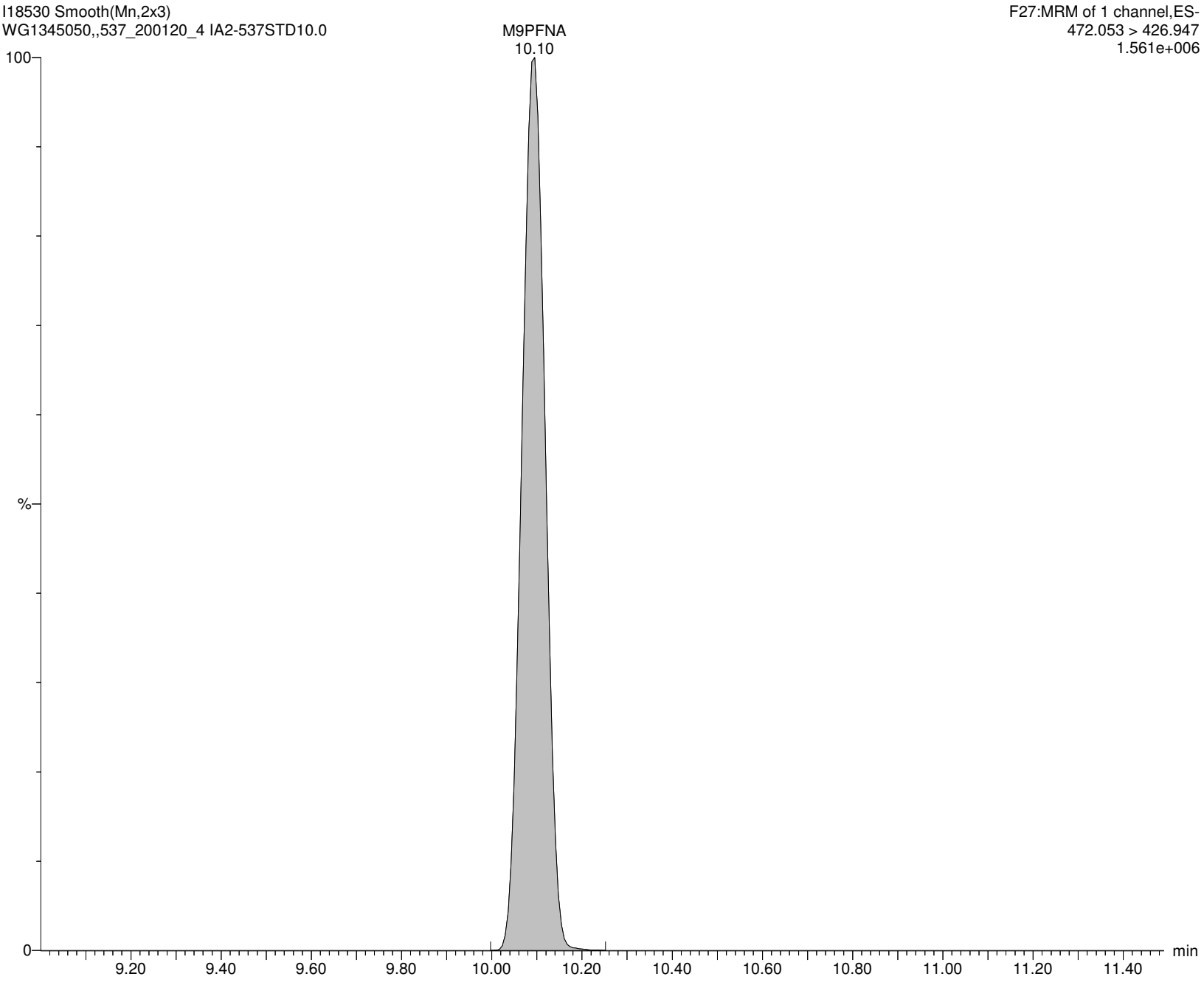
M9PFNA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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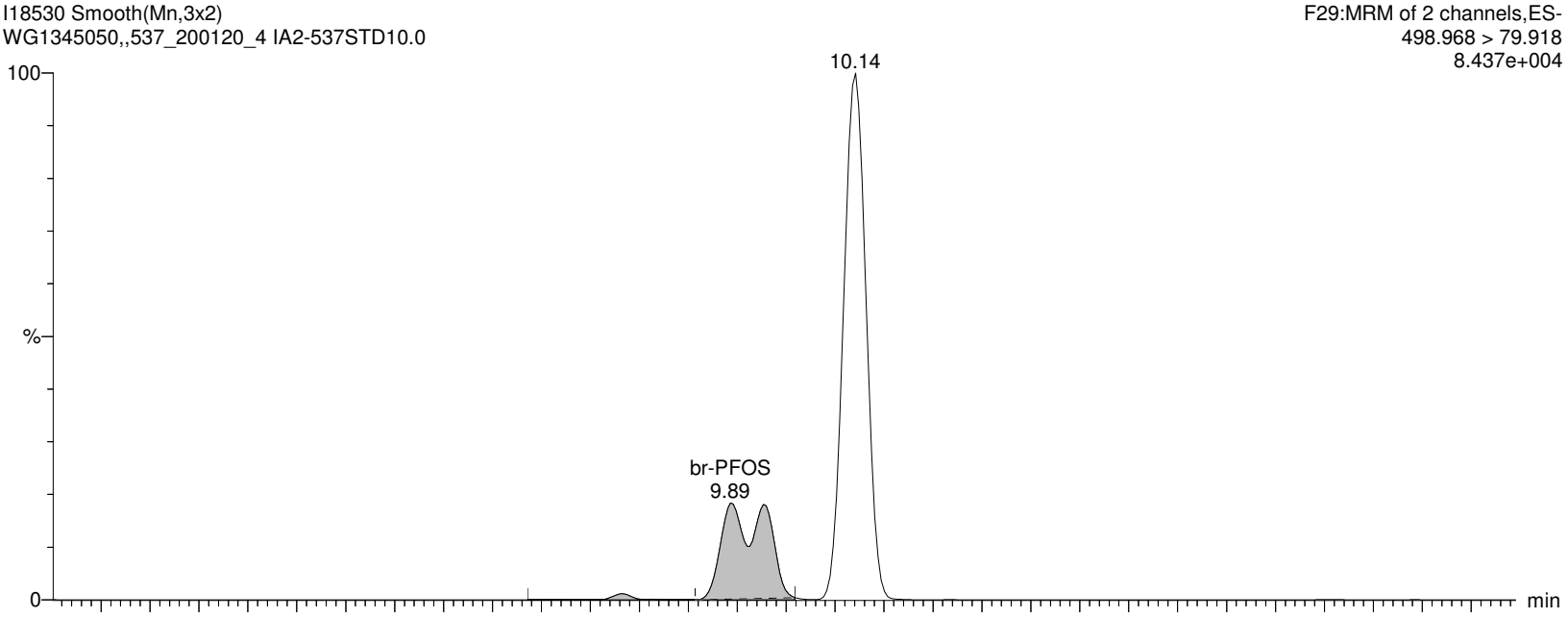

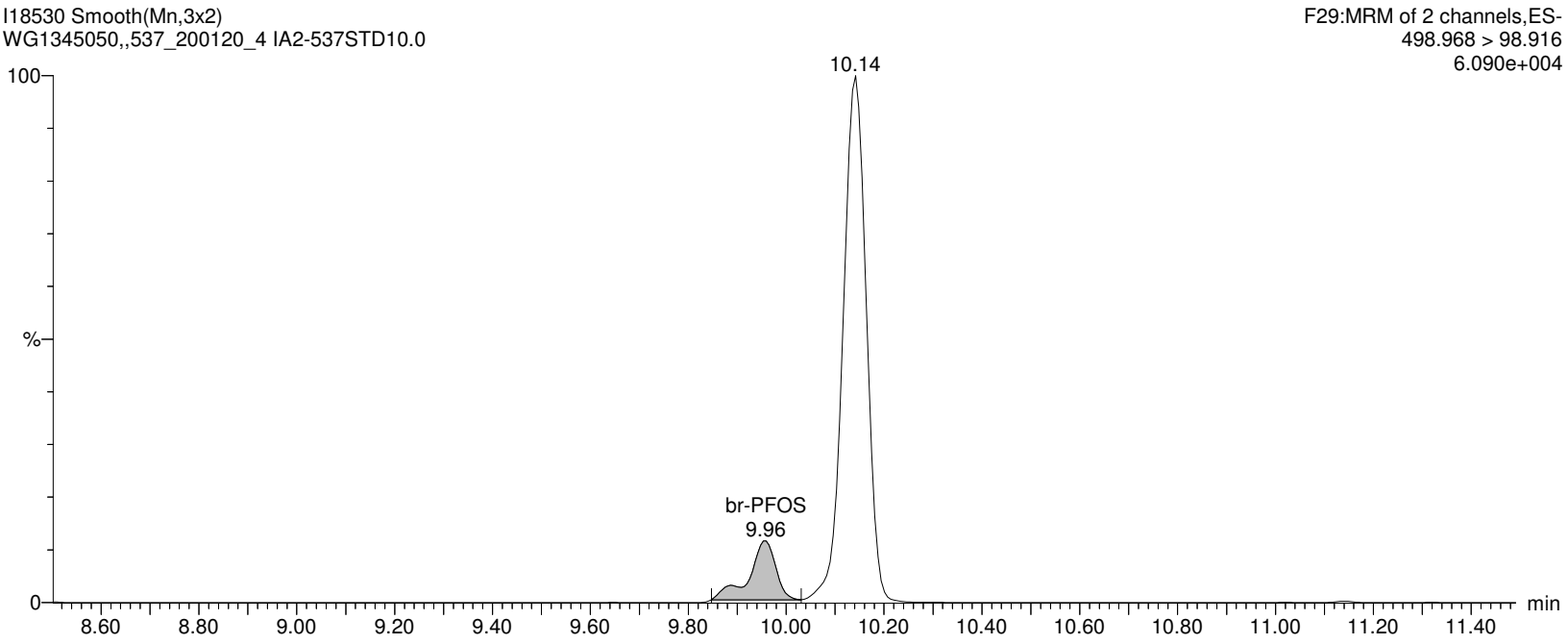

all concentration units in (ng/mL)

Alpha Analytical Inc.
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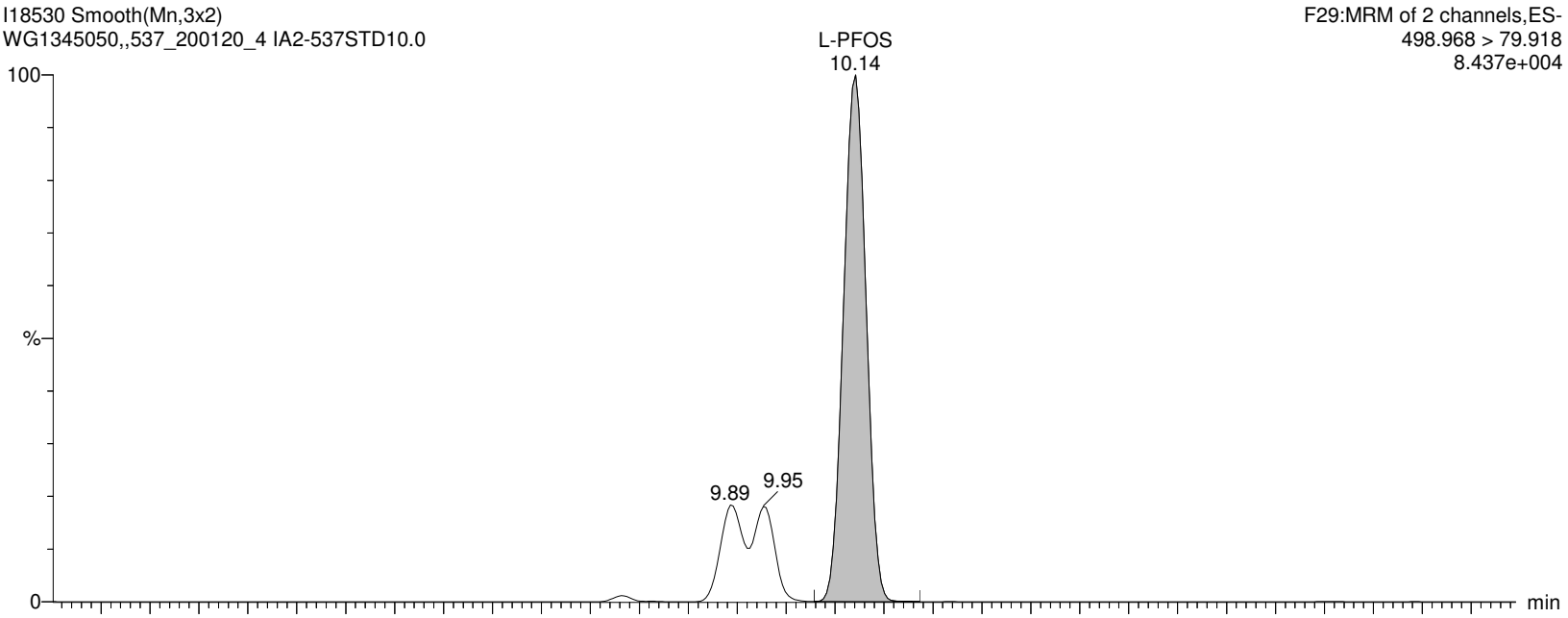

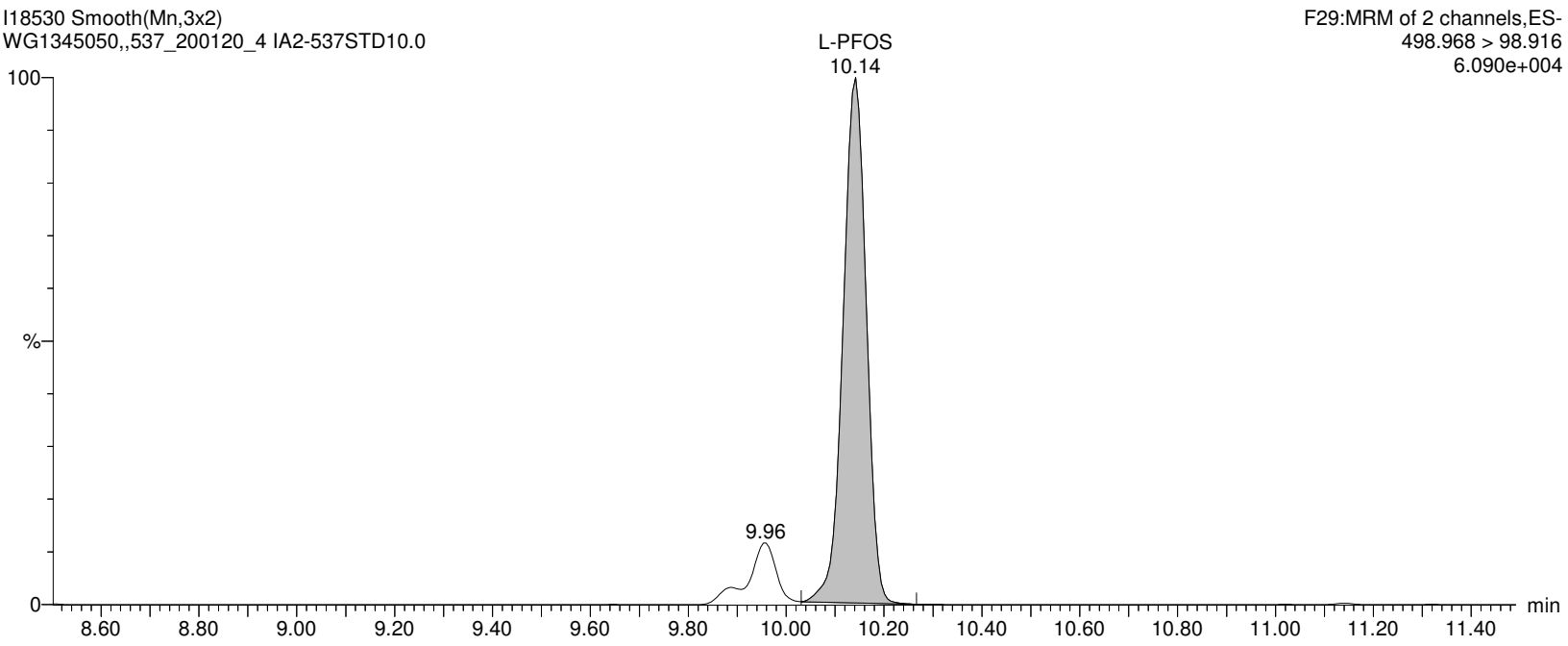

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
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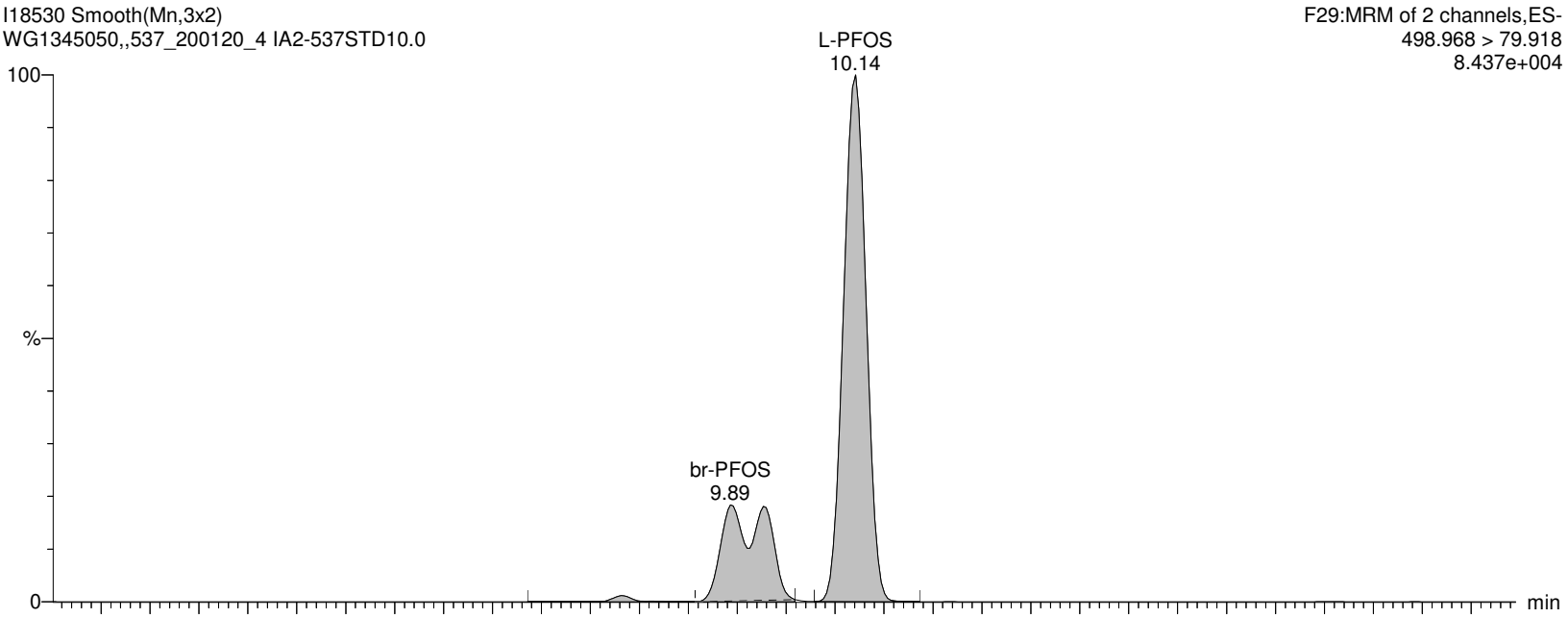

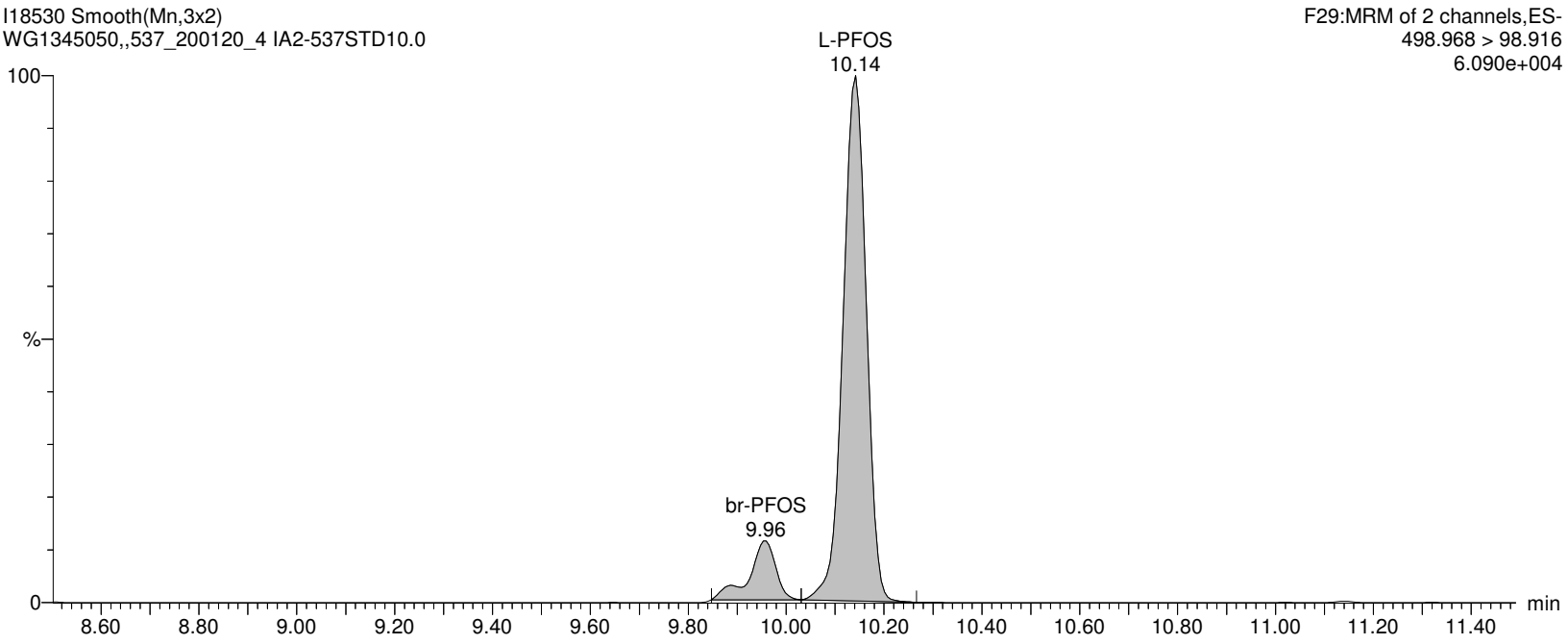

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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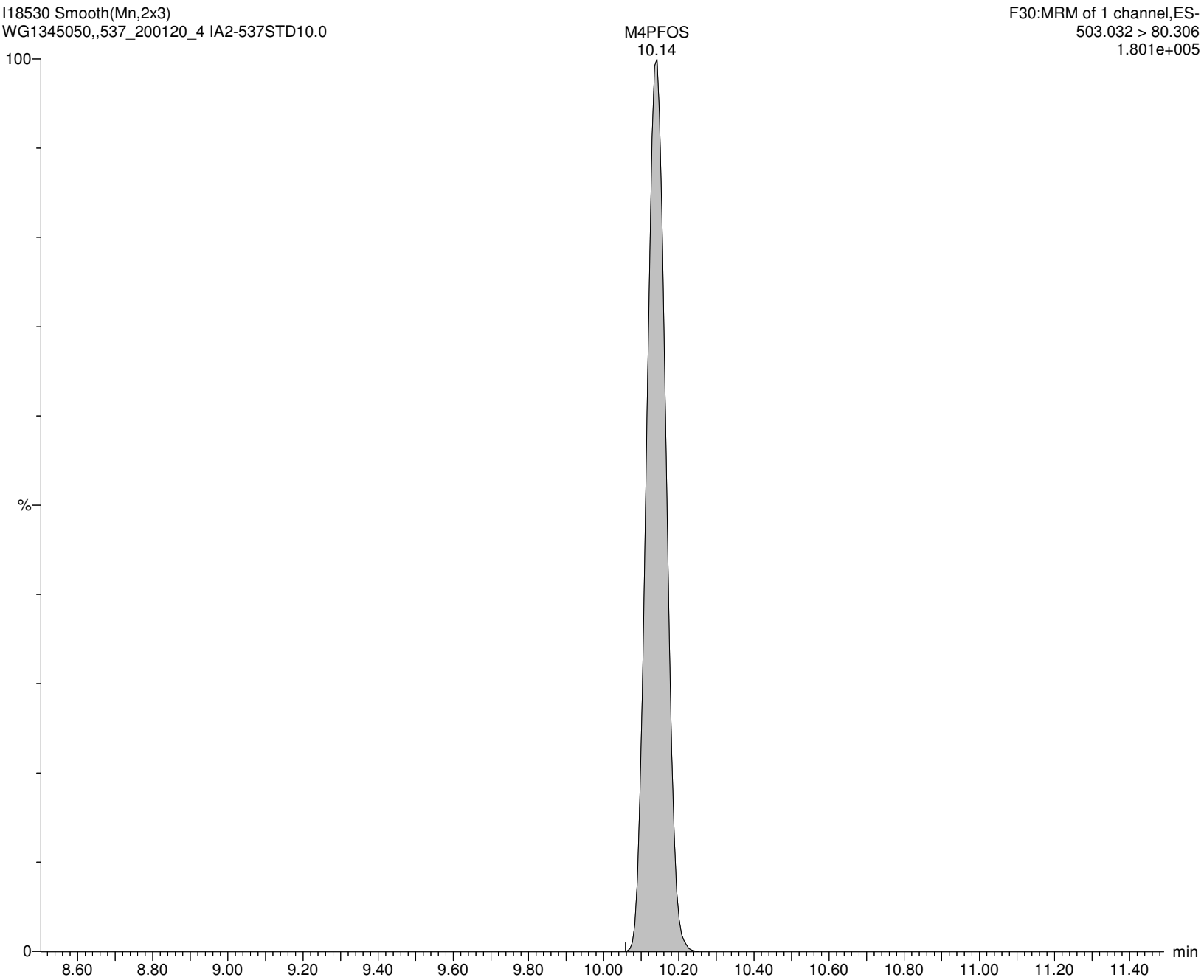

all concentration units in (ng/mL)

Alpha Analytical Inc.
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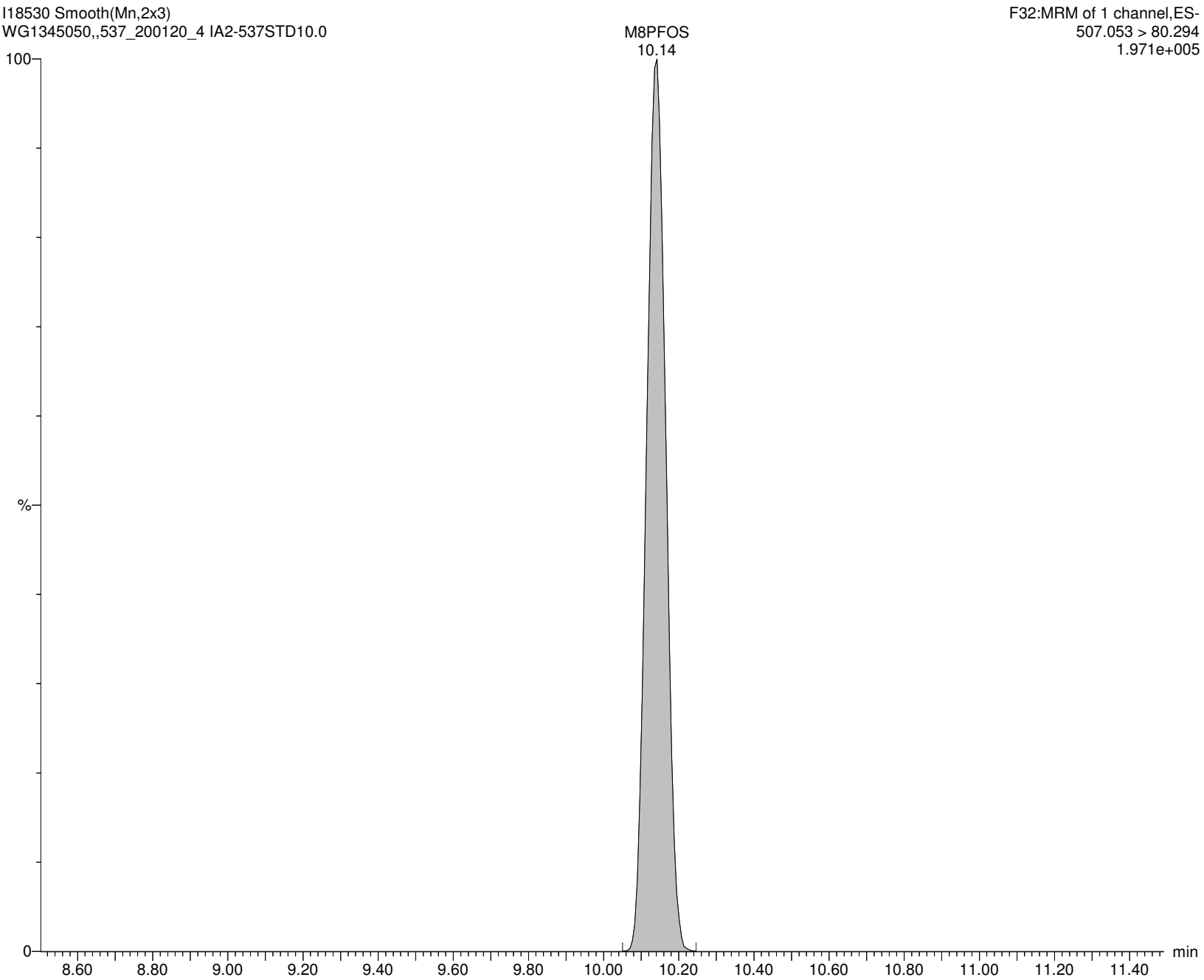

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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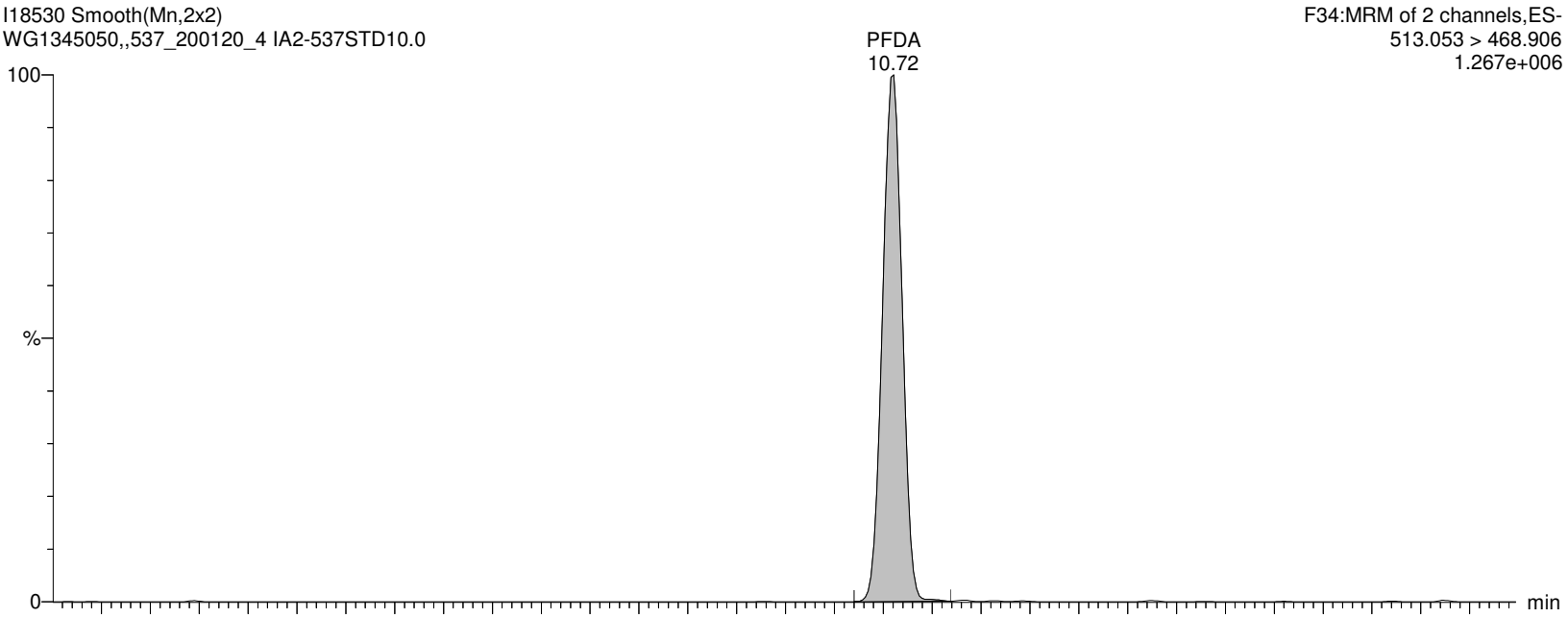

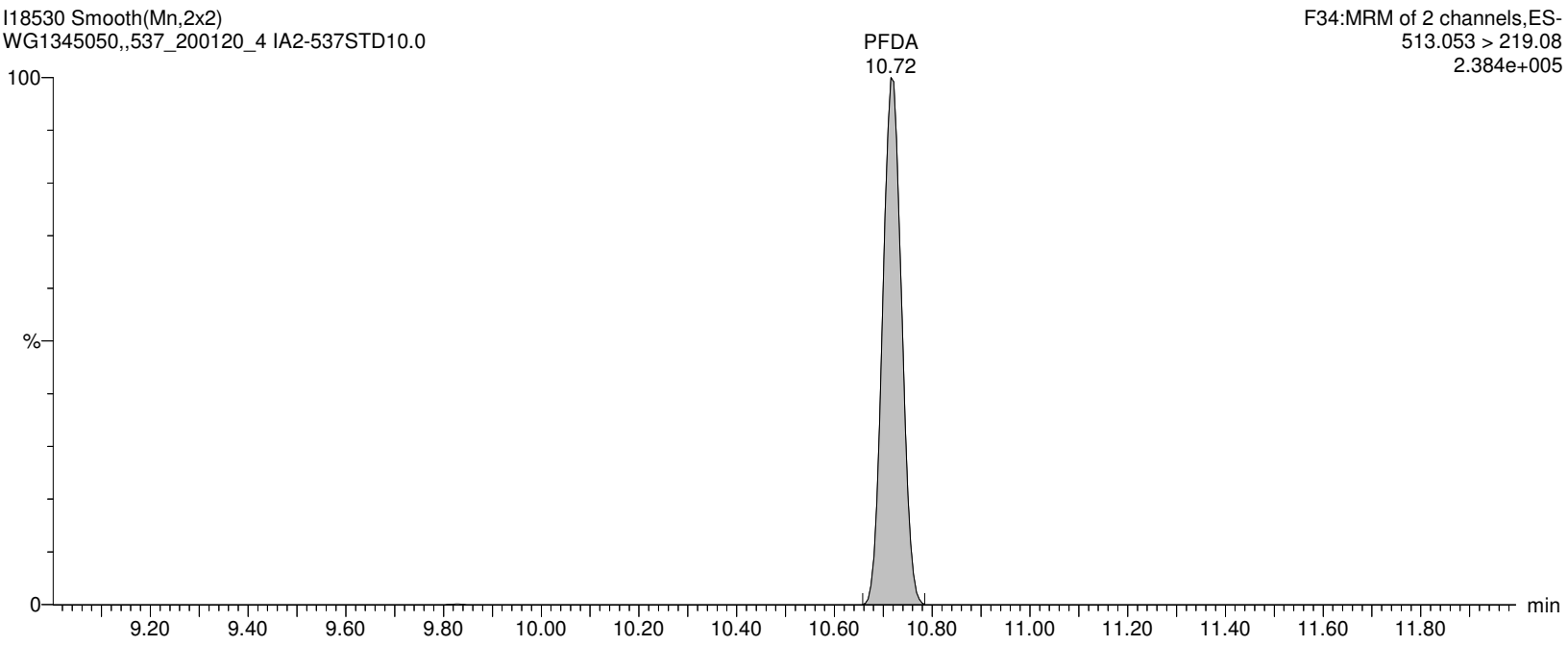

all concentration units in (ng/mL)

Alpha Analytical Inc.
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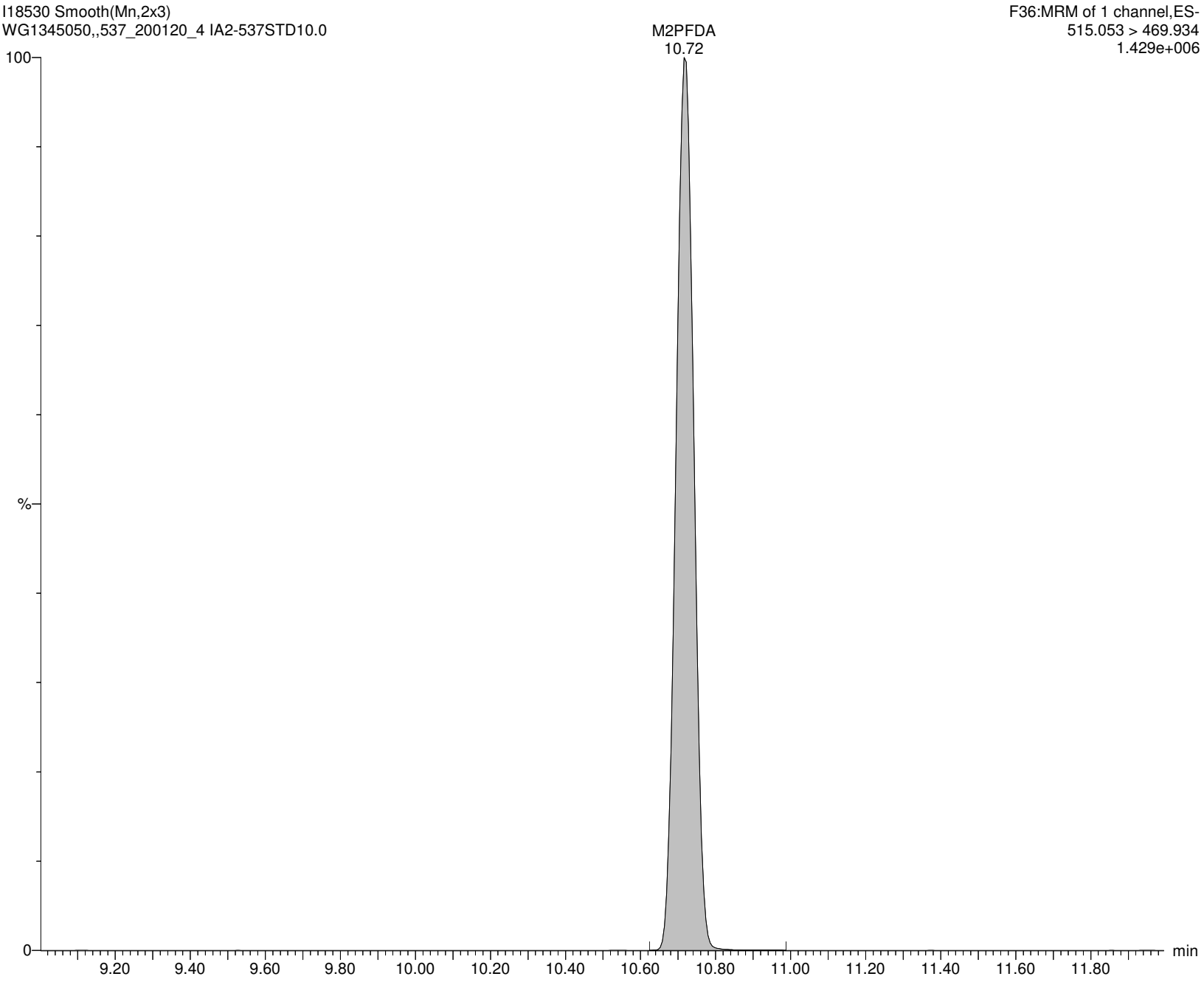
M2PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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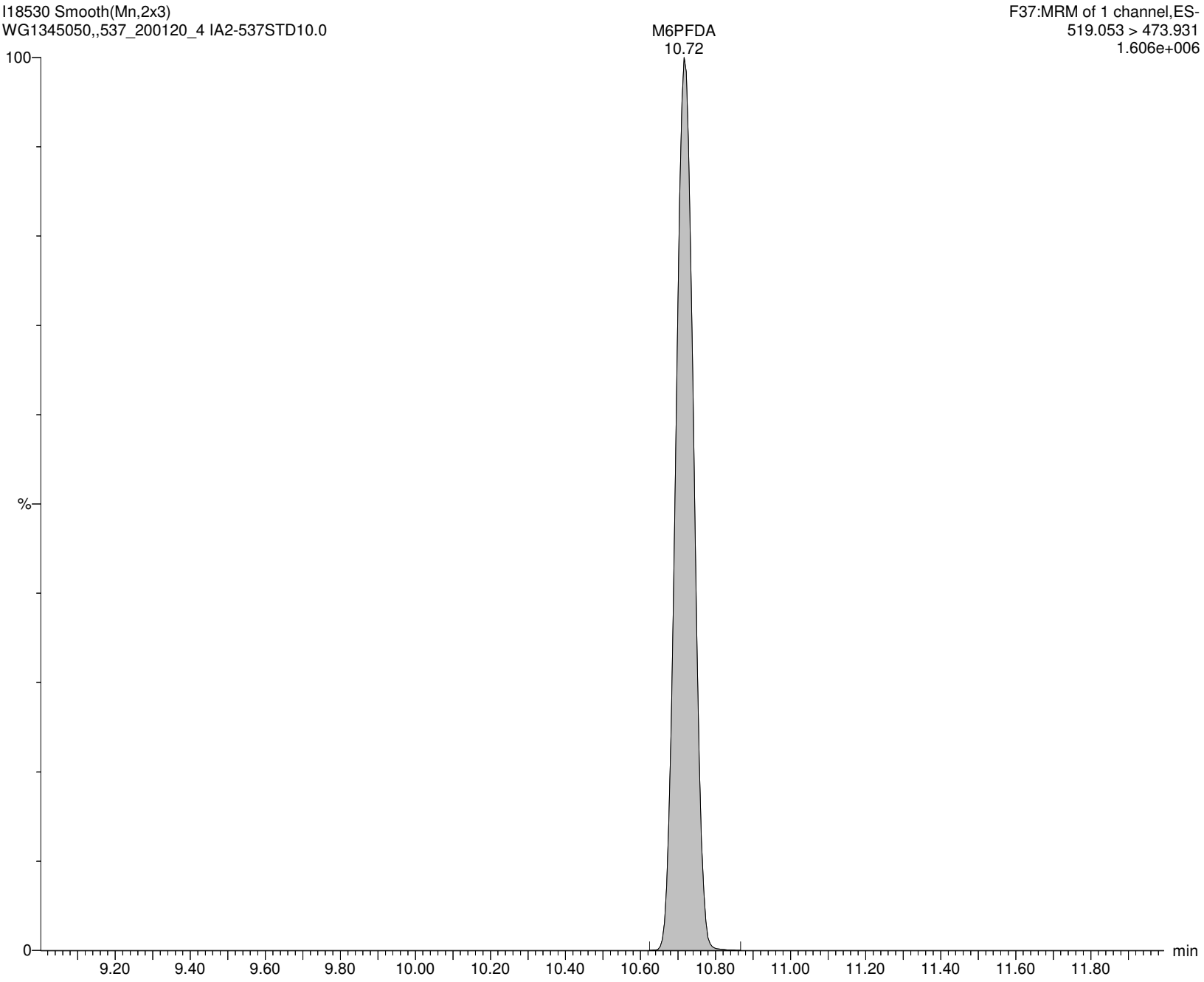
M6PFDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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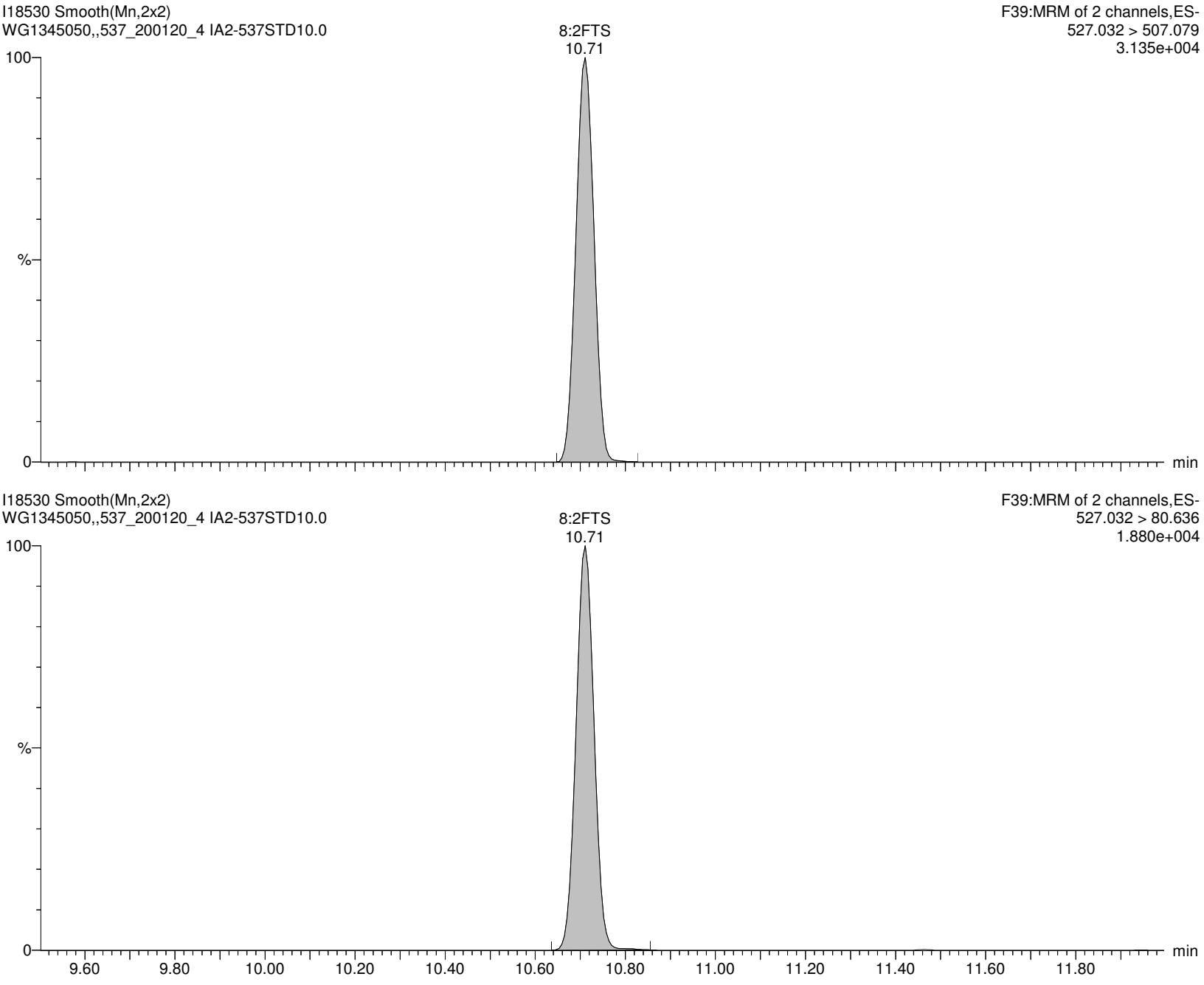
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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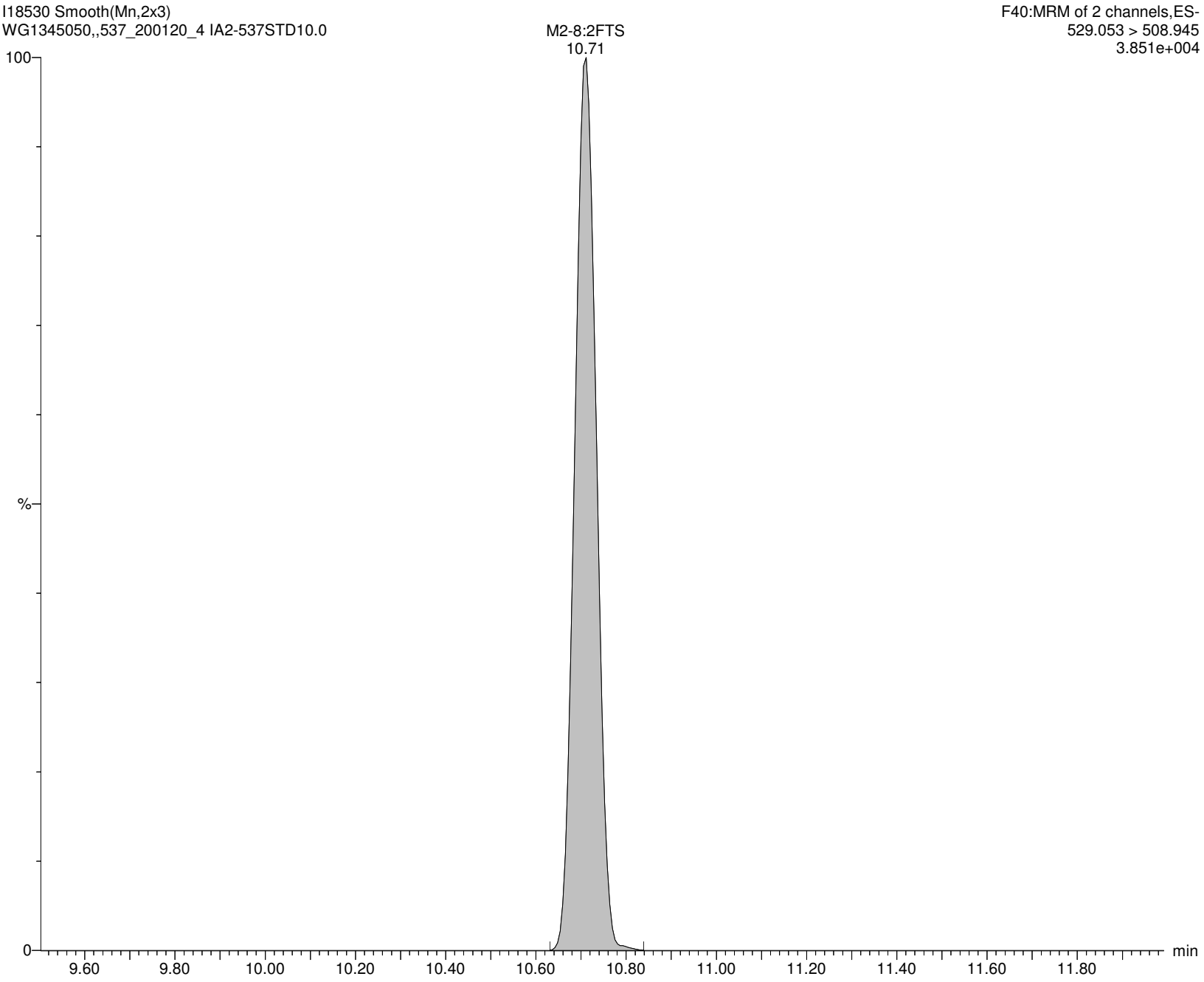
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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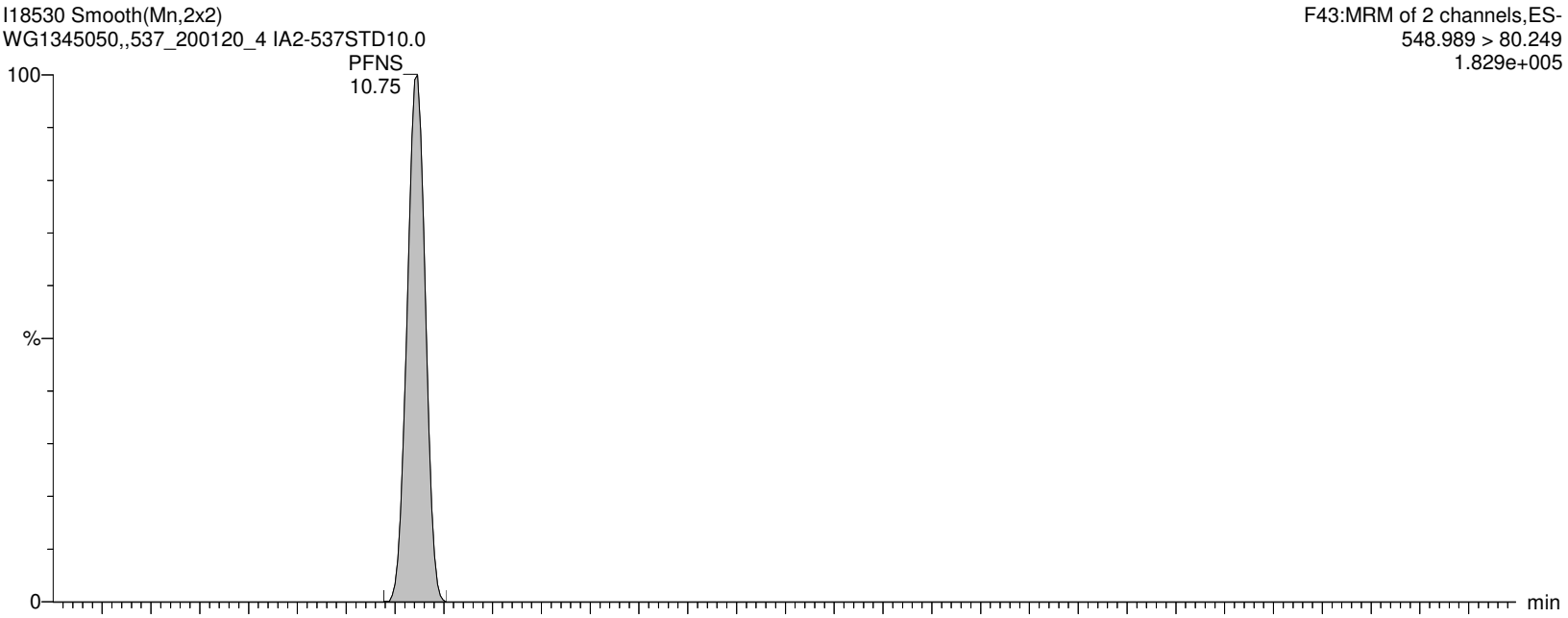
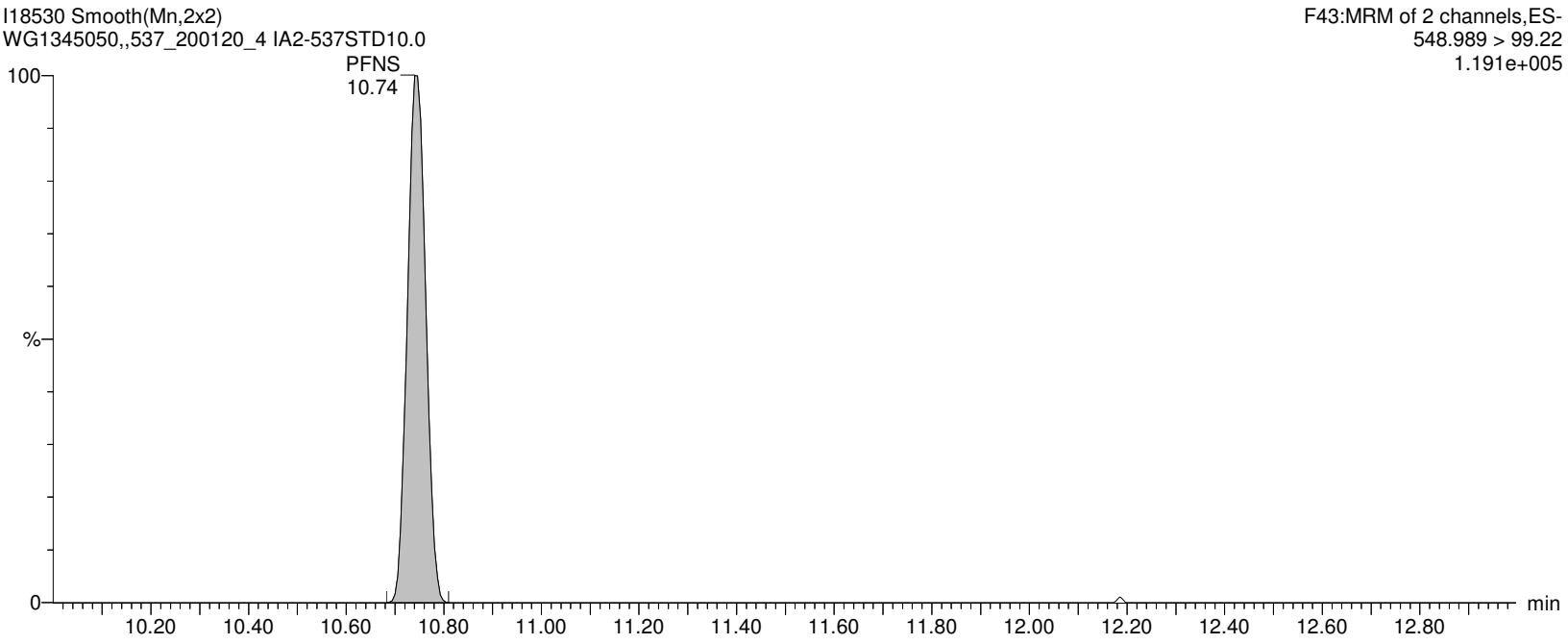
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:49 Eastern Standard Time

Name: I18530
ID: IA2-537STD10.0
Date: 27-Feb-2020
Time: 14:18:52
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User: LCMS01:SG
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
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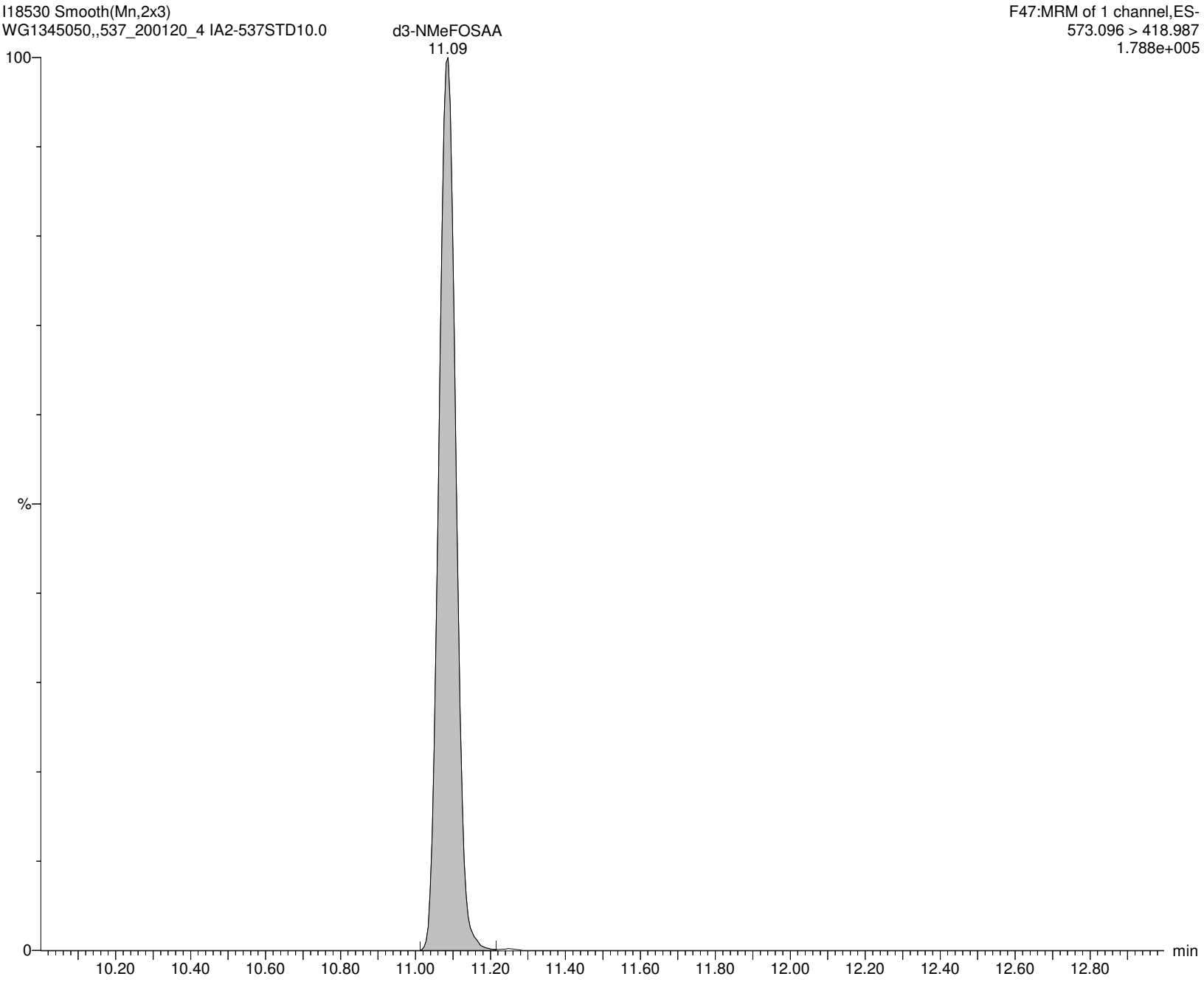
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 27-Feb-2020
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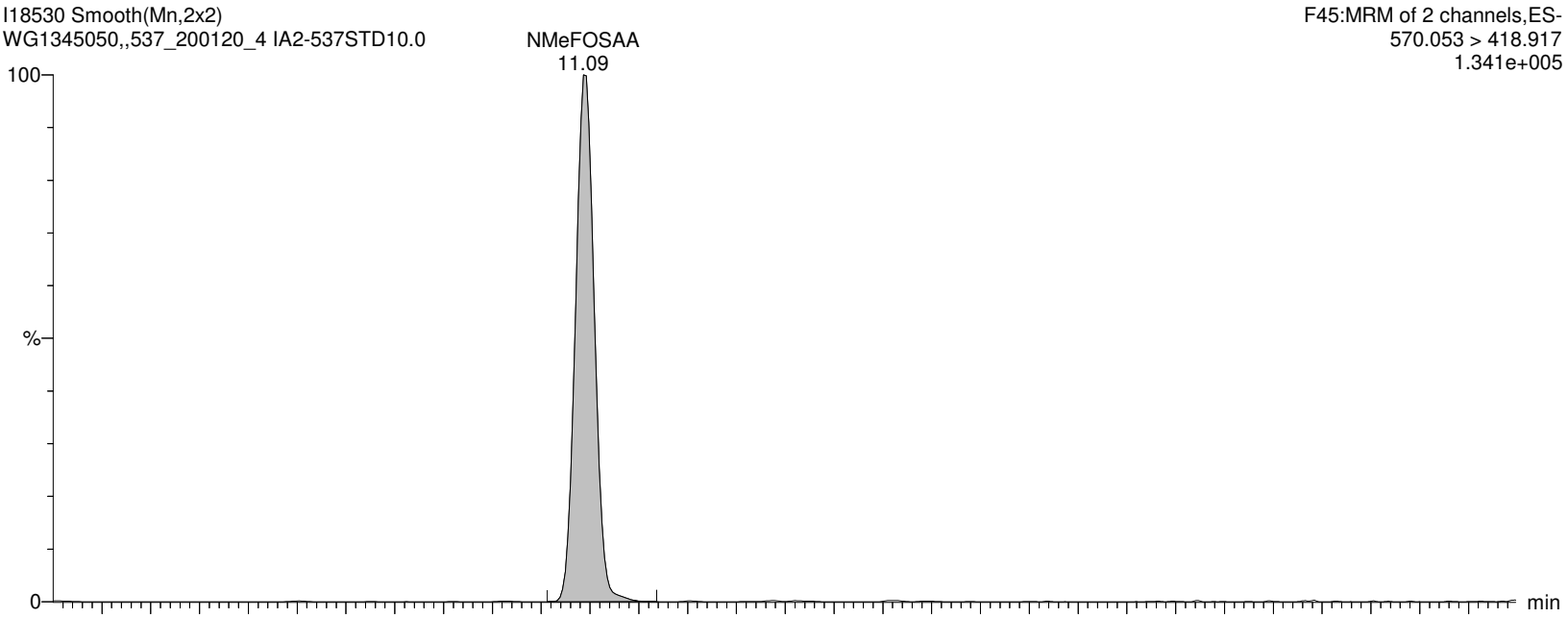

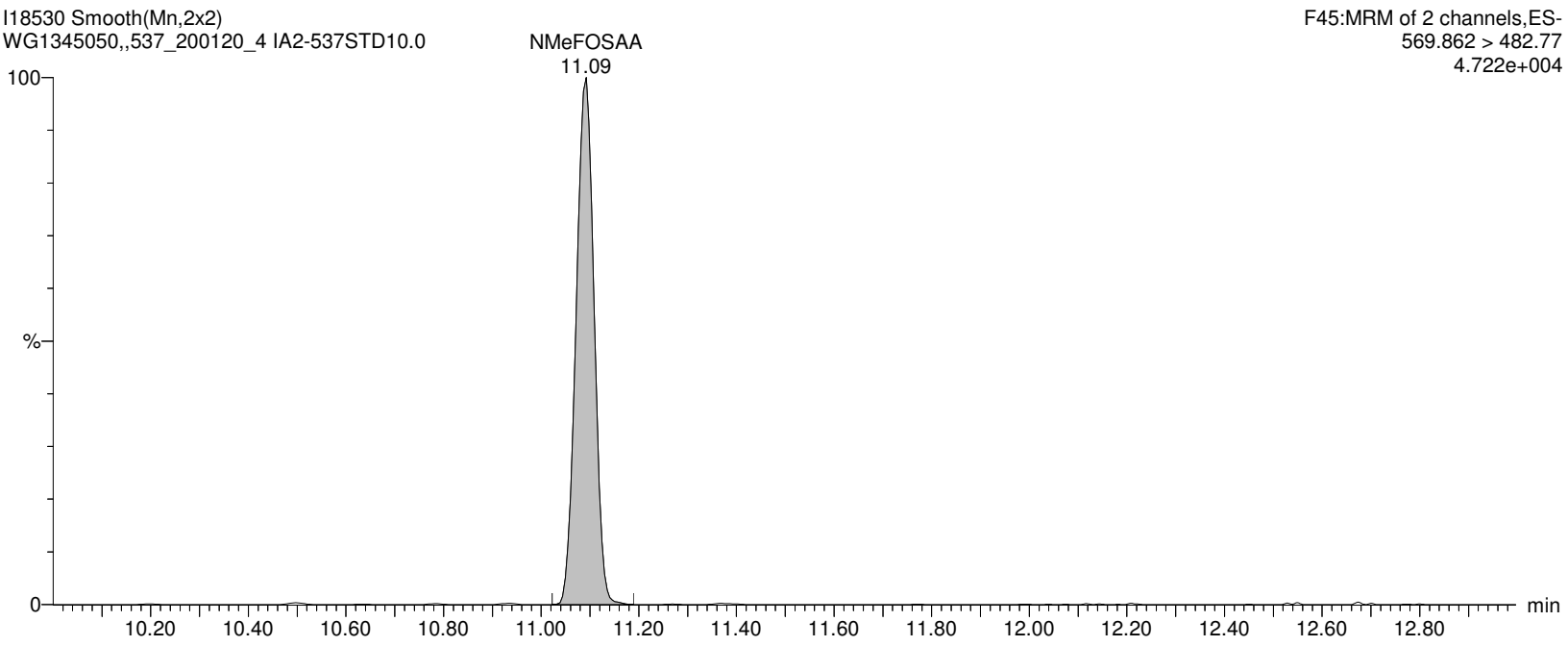

all concentration units in (ng/mL)

Alpha Analytical Inc.
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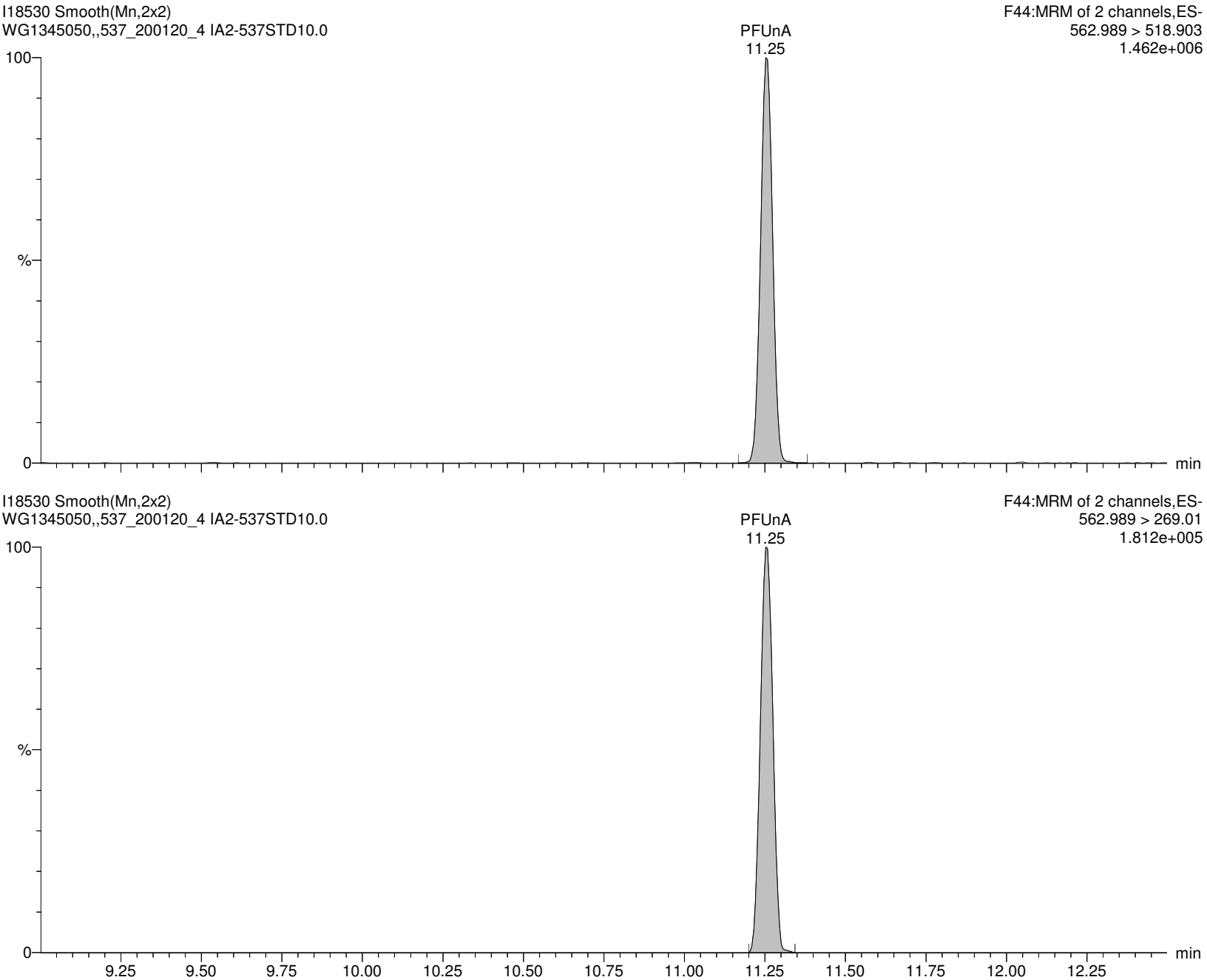

all concentration units in (ng/mL)

Alpha Analytical Inc.
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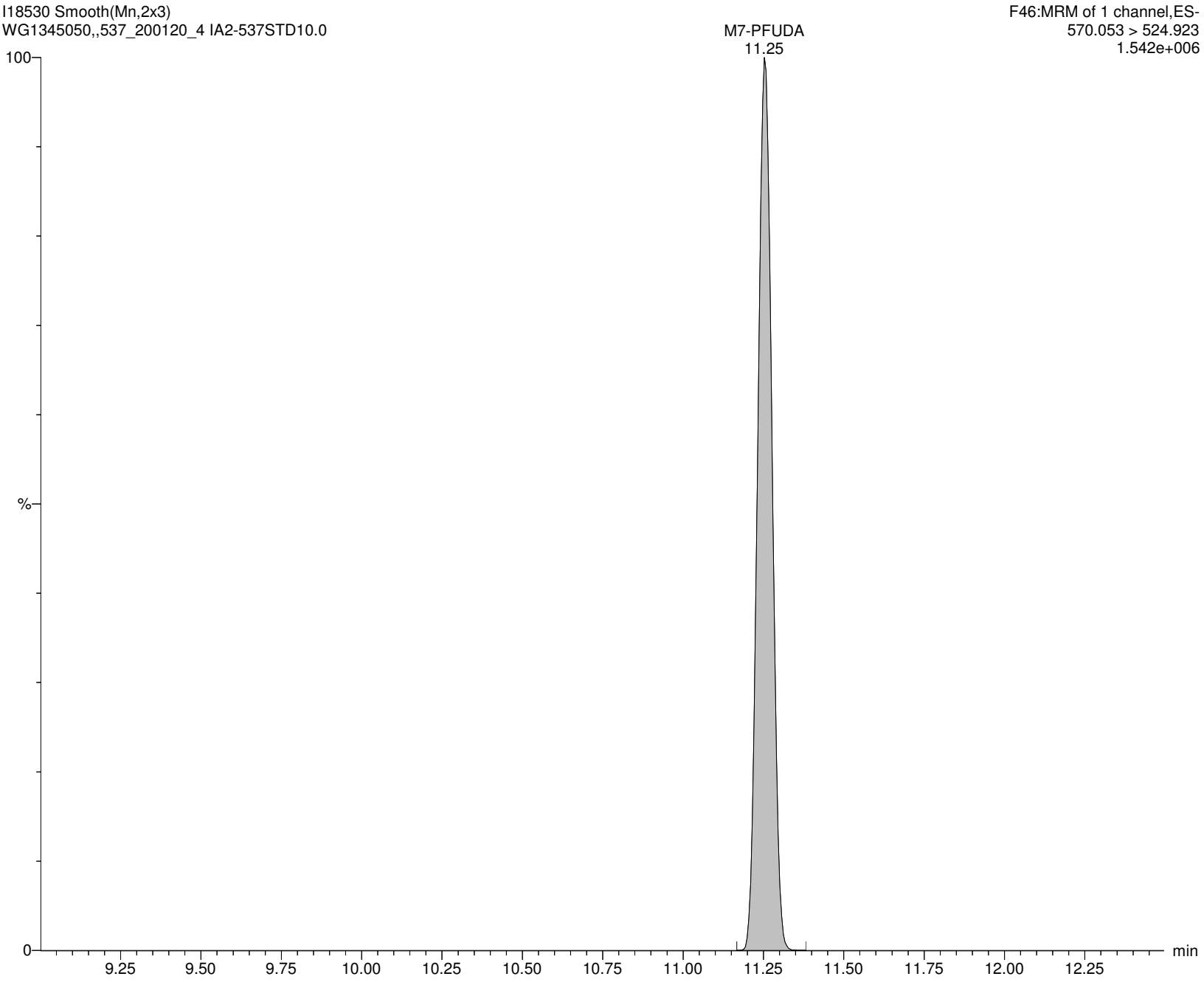
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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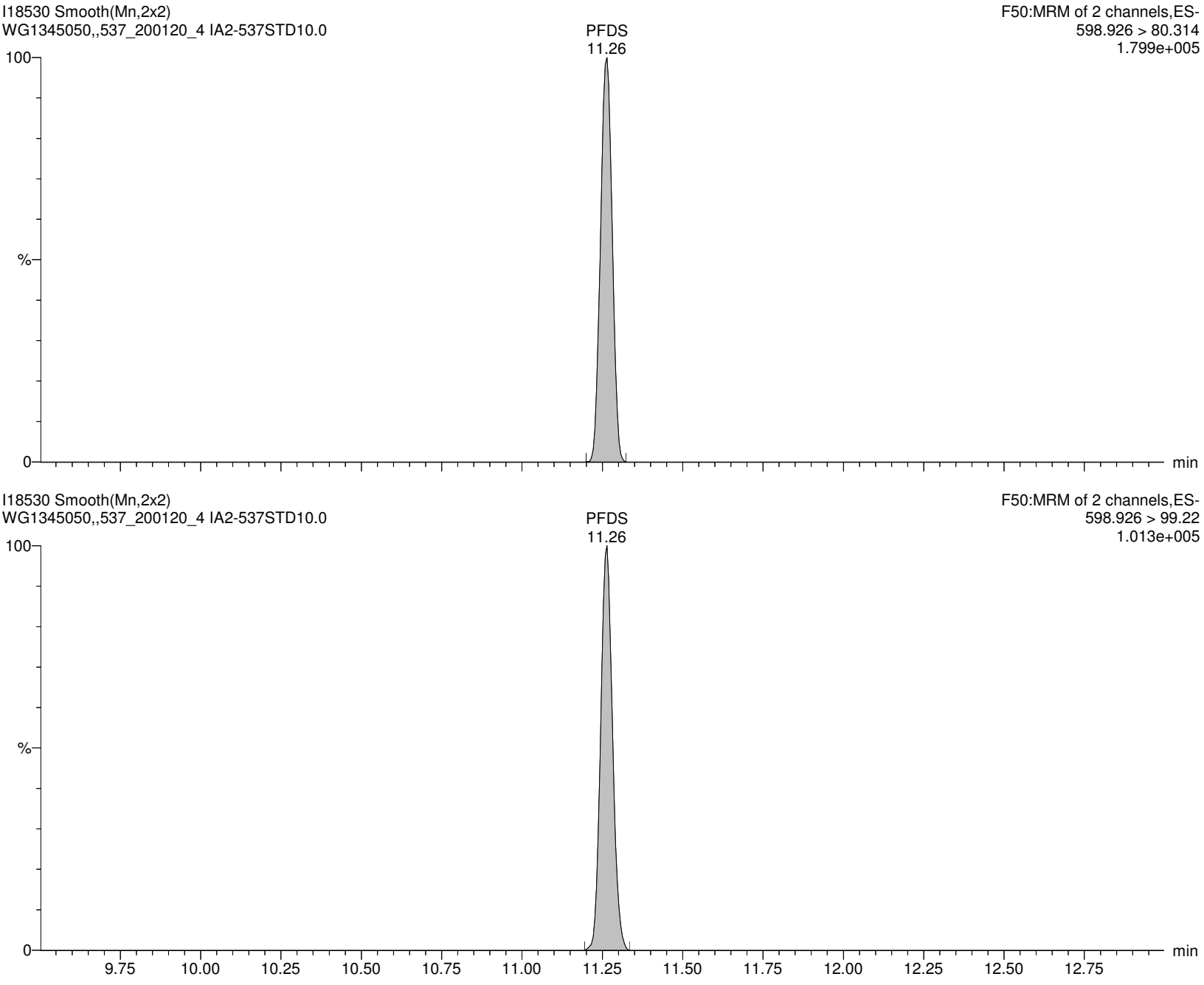

all concentration units in (ng/mL)

Alpha Analytical Inc.
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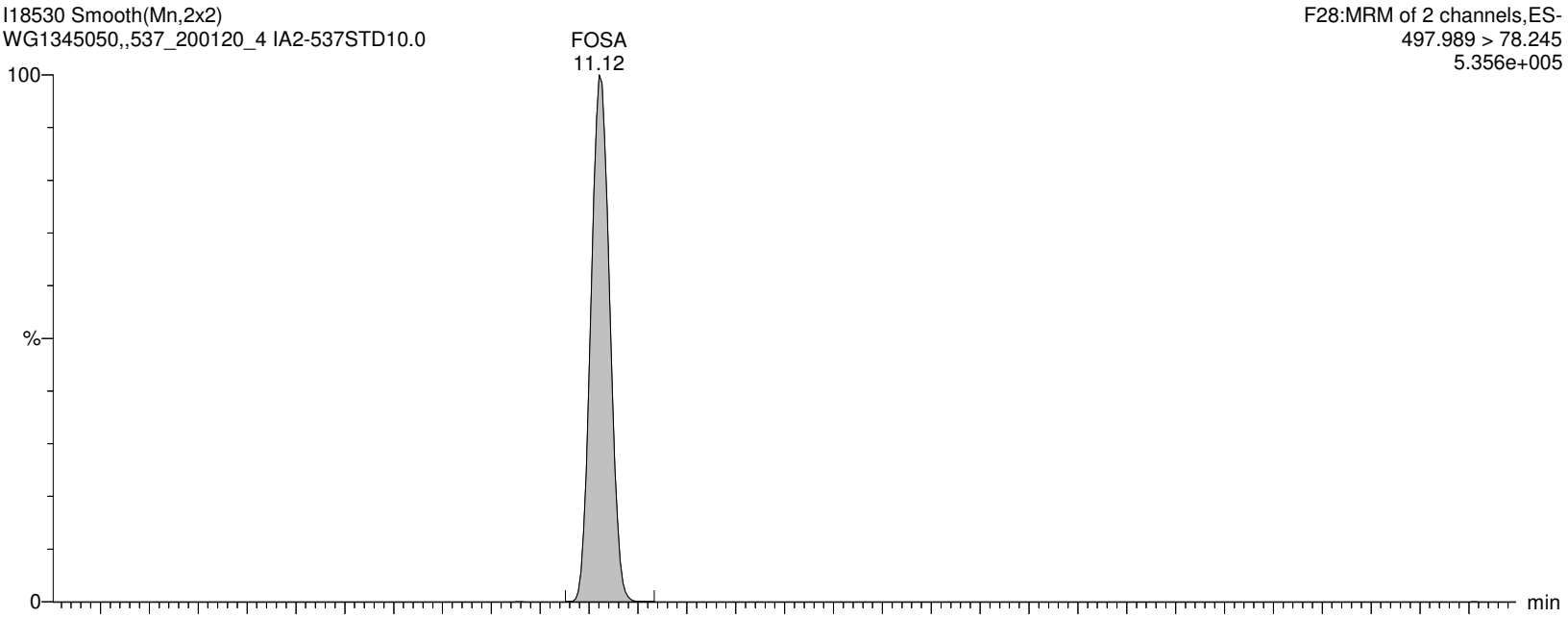

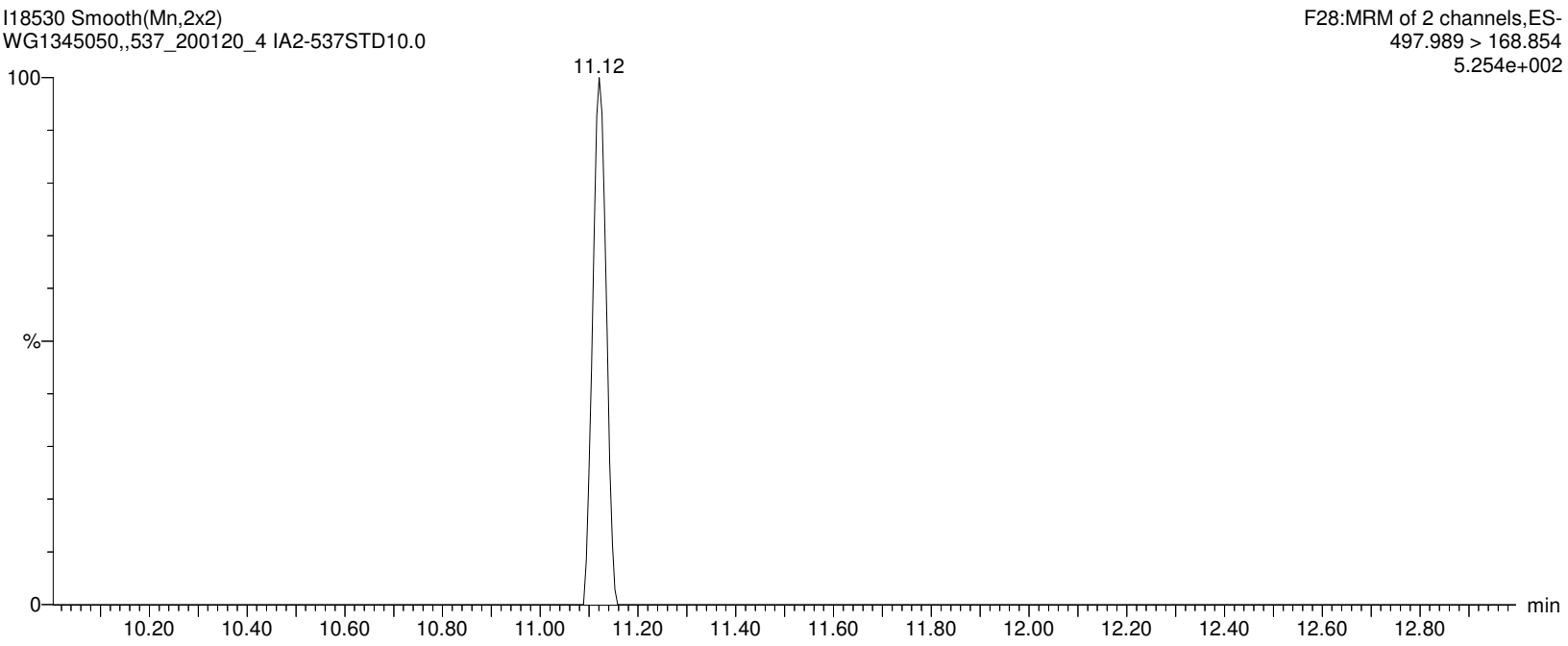

all concentration units in (ng/mL)

Alpha Analytical Inc.
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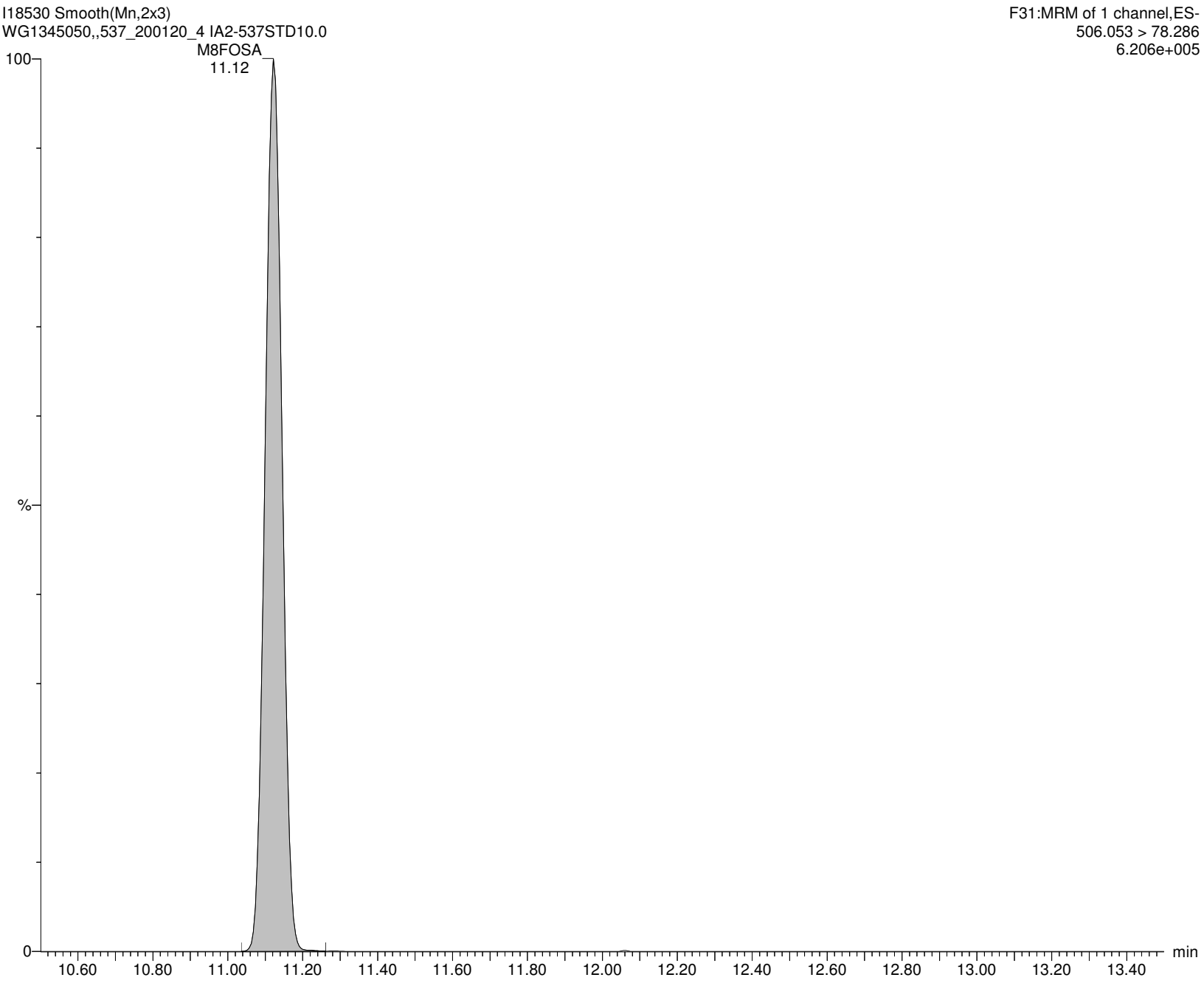
M8FOSA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
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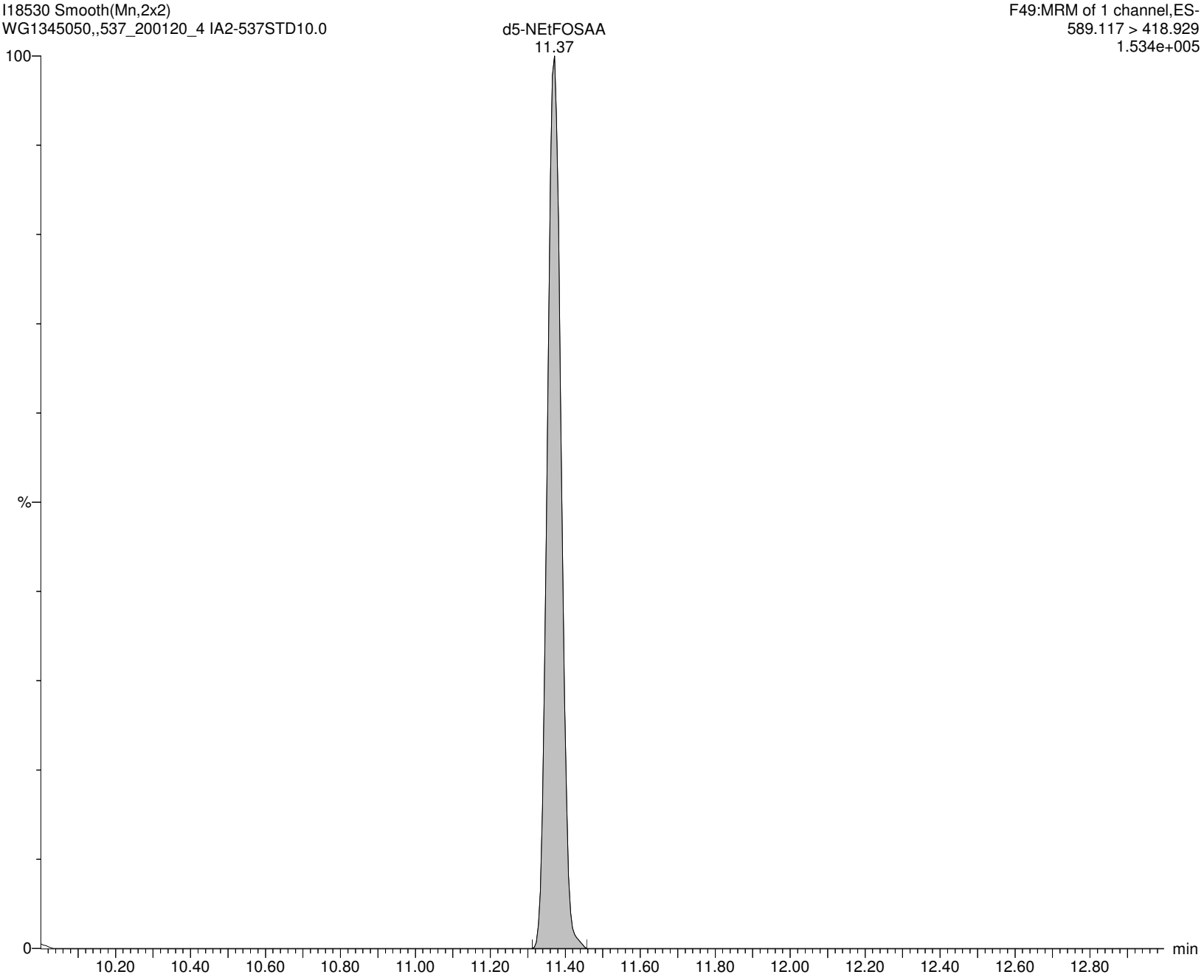
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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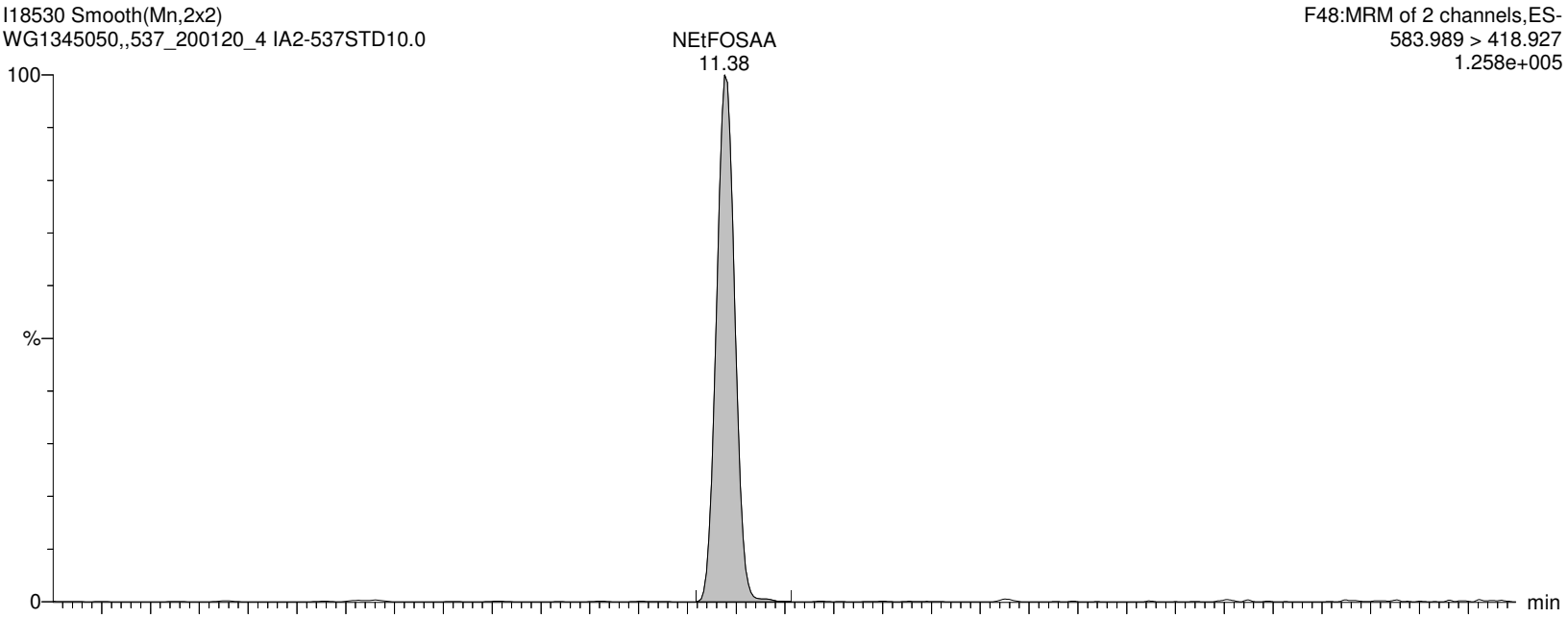

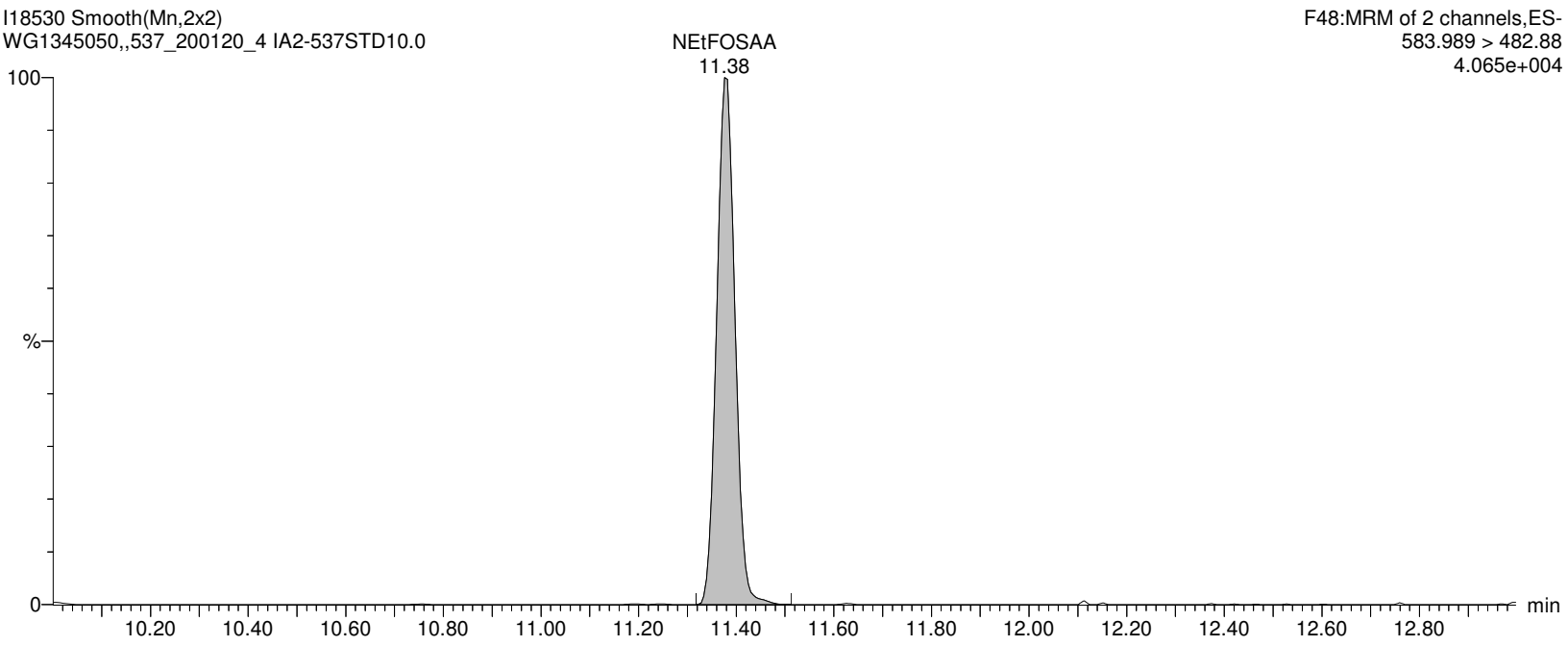

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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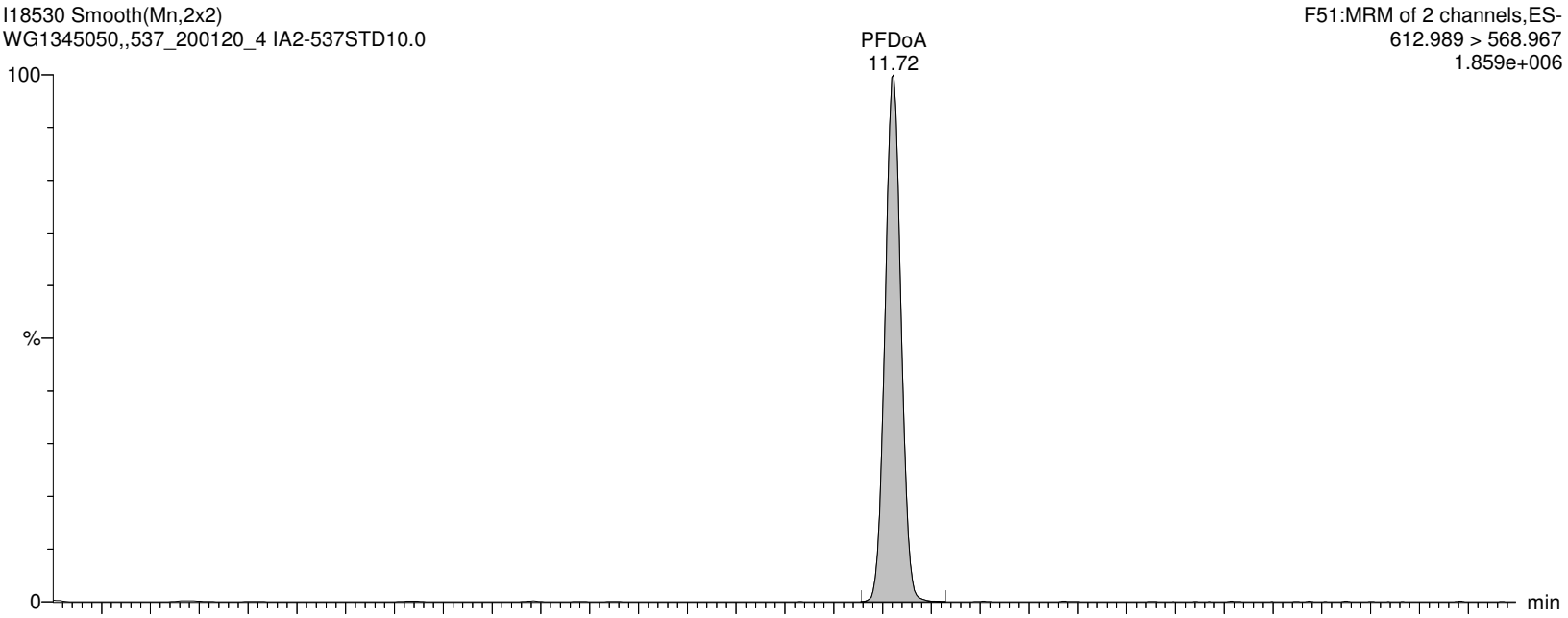

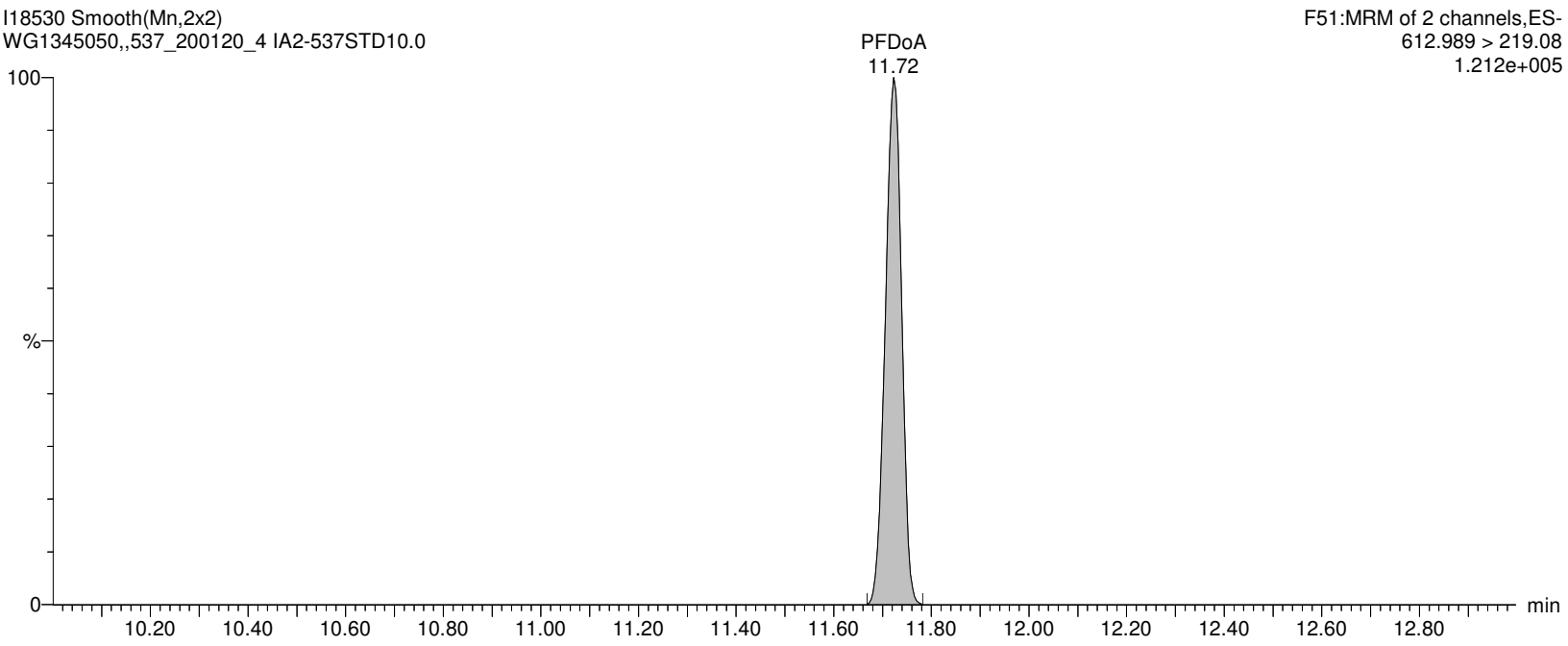

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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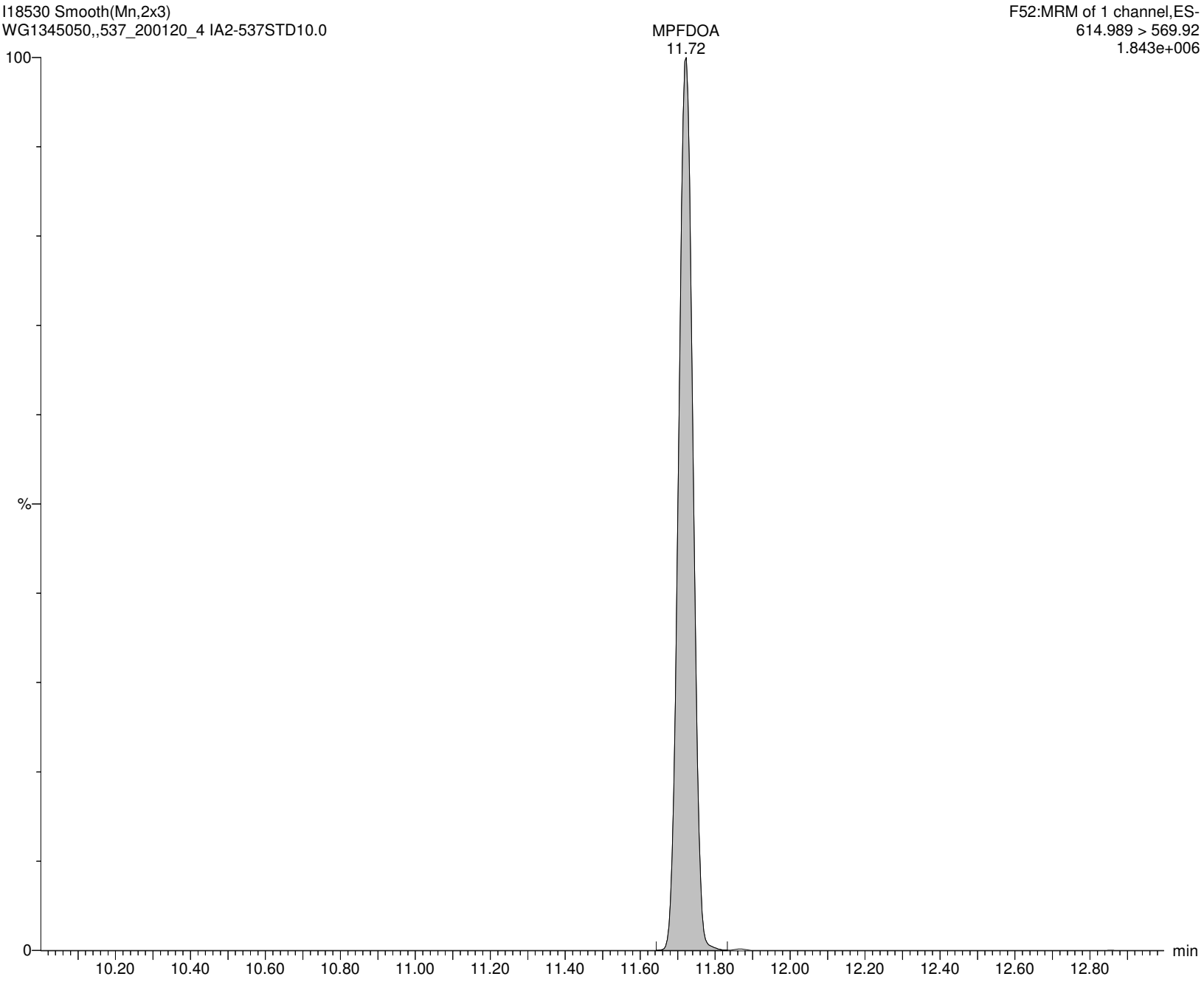

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:49 Eastern Standard Time

Name: I18530
ID: IA2-537STD10.0
Date: 27-Feb-2020
Time: 14:18:52
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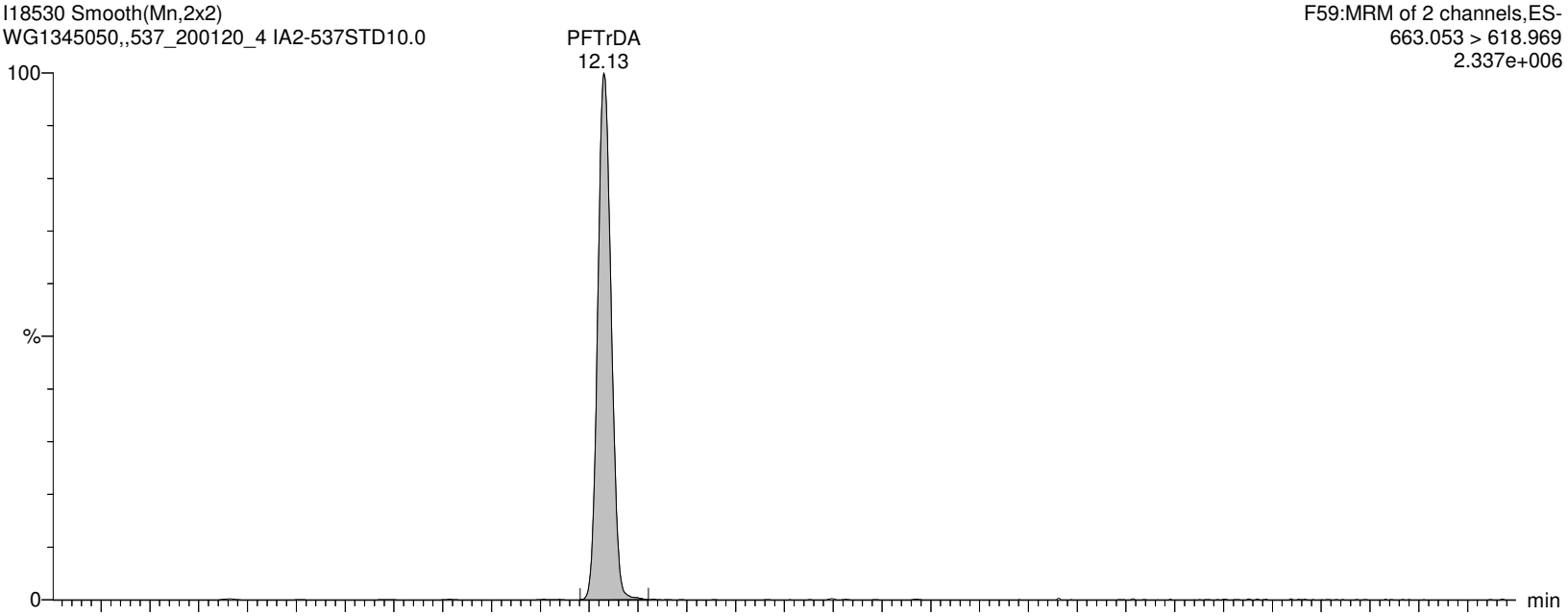

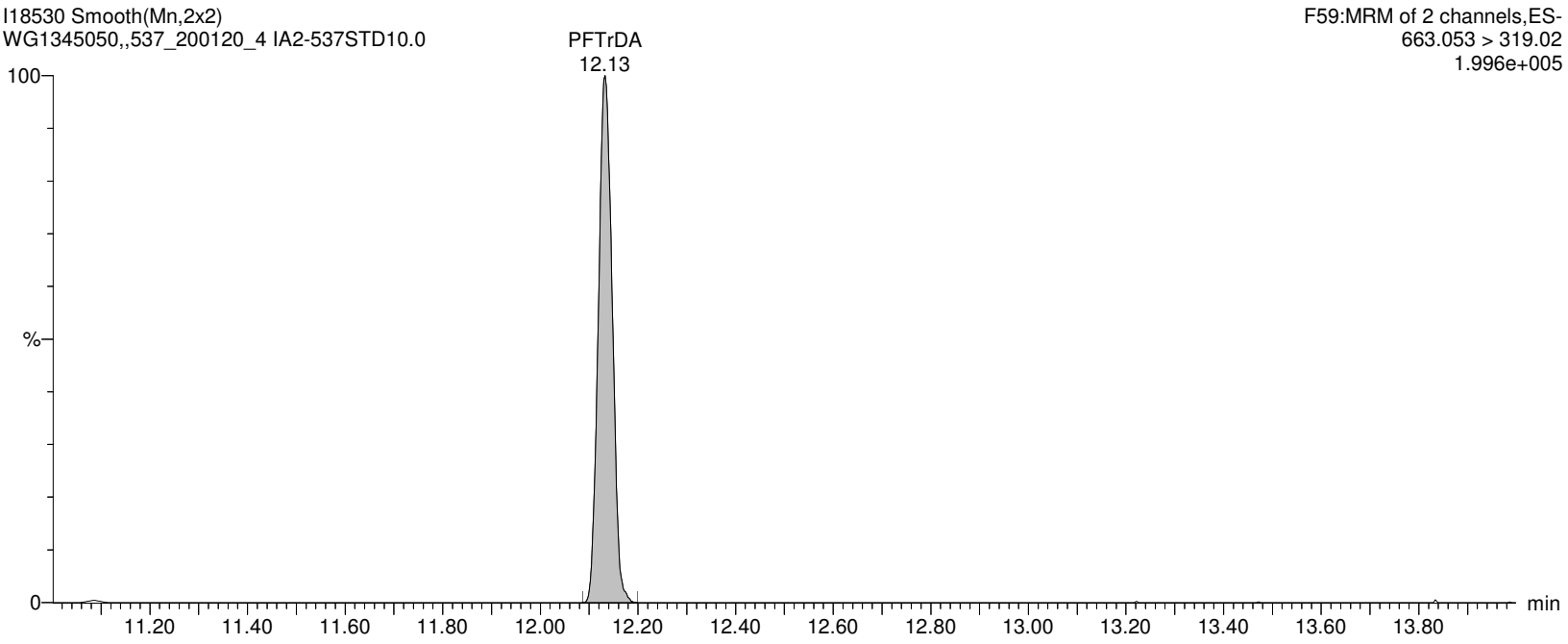

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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Date: 27-Feb-2020
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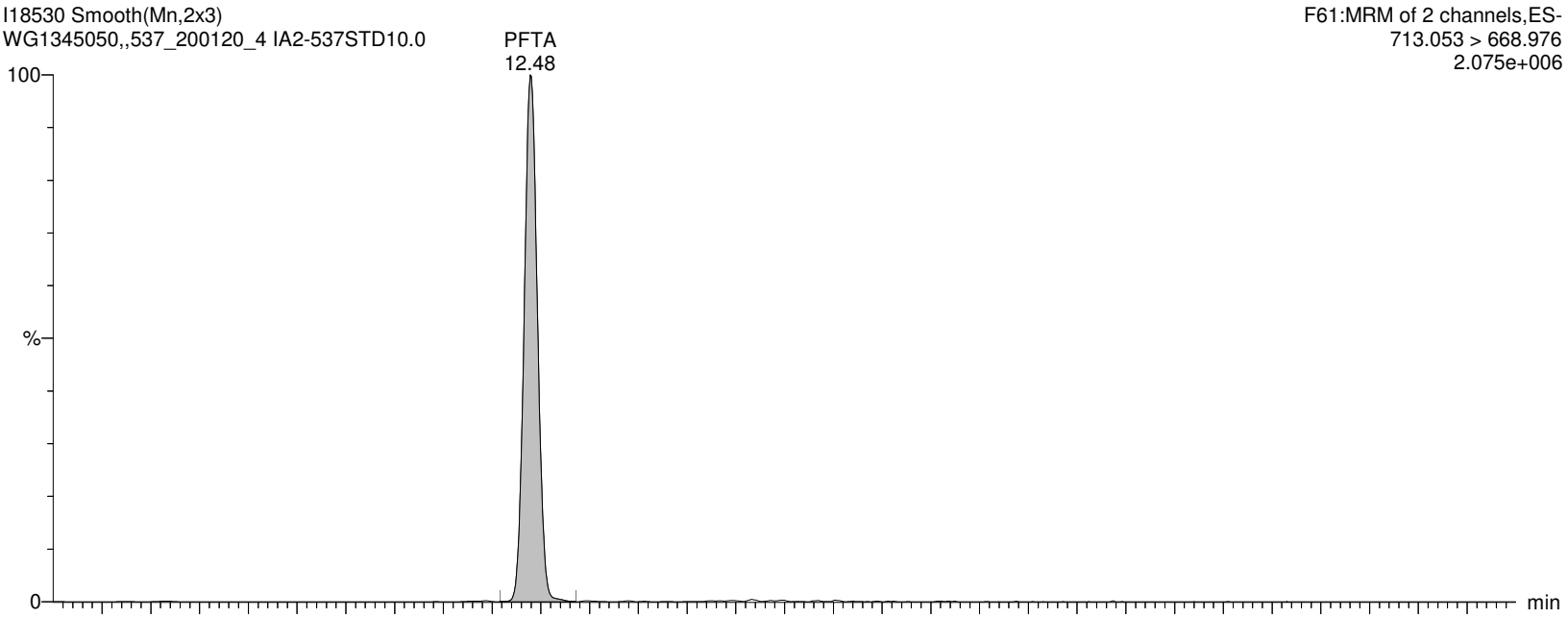
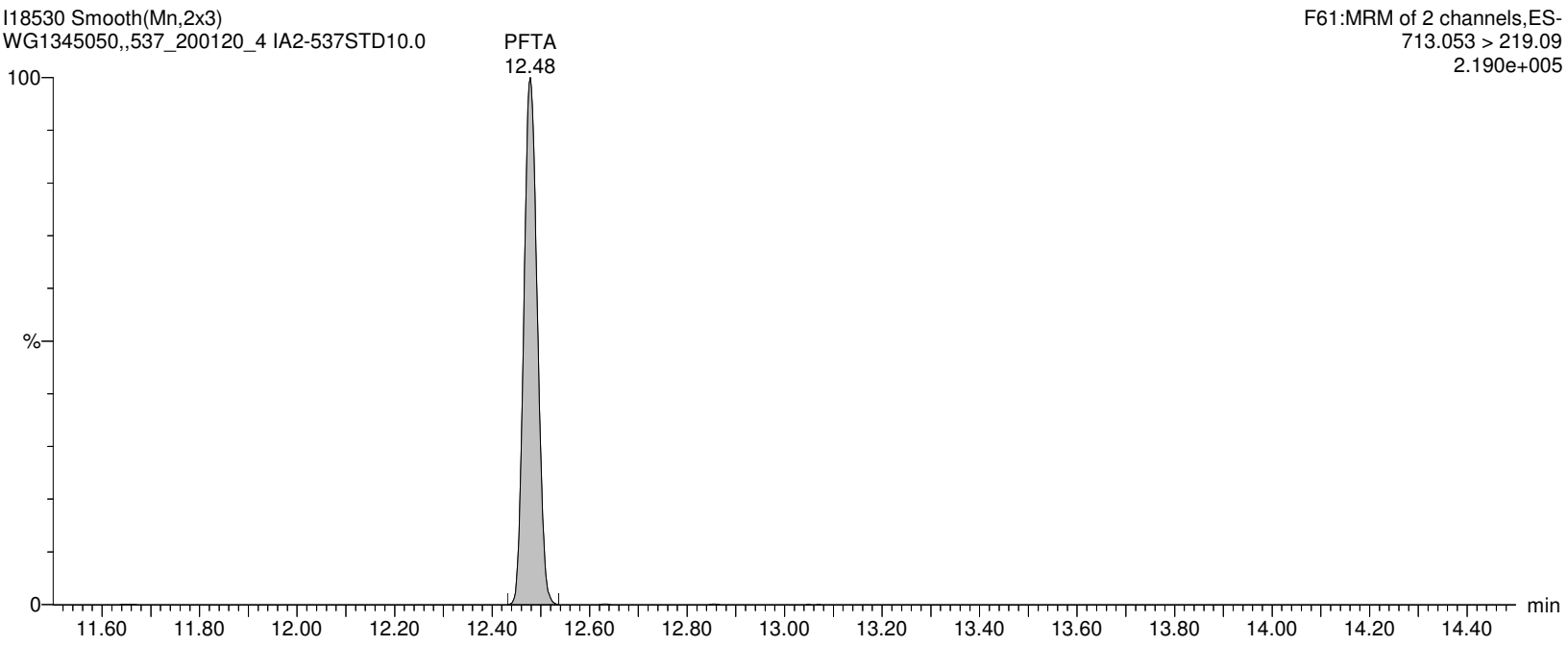
PFTA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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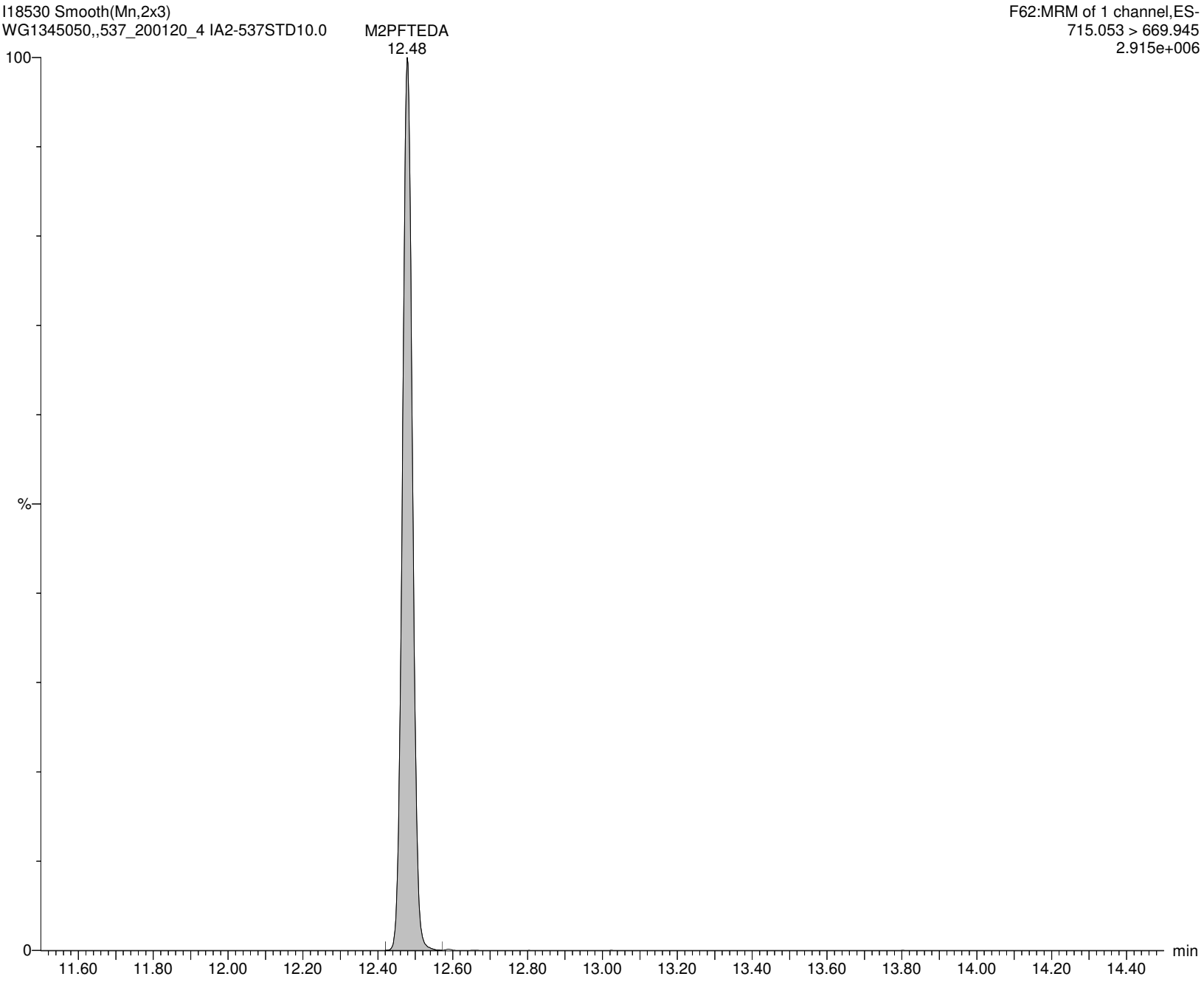

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:51 Eastern Standard Time

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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	167813		50.630		na	101.3
2	M3PFBA	INT STD	2.24	215.926 > 172.122	39499		10.045		na	100.5
3	MPFBA	INT STD	2.24	216.926 > 172.137	45939		10.150		na	101.5
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	216821		50.578		na	101.2
5	M5PFPEA	INT STD	5.20	267.989 > 223.081	61819		10.294		na	102.9
6	PFBS	375-73-5	5.87	298.926 > 79.923	44615		45.316	2.02	NO	102.4
7	M3PFBS	INT STD	5.87	301.989 > 80.254	10926		10.826		na	108.3
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	20977		49.864	1.80	NO	106.7
9	M2-4:2FTS	INT STD	7.05	329.117 > 309.079	5880		11.183		na	111.8
10	PFHxA	307-24-4	7.13	312.989 > 269.028	298865		50.854	17.33	NO	101.7
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	71174		10.345		na	103.4
12	PFPeS	2706-91-4	7.44	348.926 > 80.251	48997		48.892	2.37	NO	104.0
13	PFHpA	375-85-9	8.41	362.926 > 319.014	374813		49.015	5.19	NO	98.0
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	84240		10.554		na	105.5
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	6982		8.540	3.03	NO	100.5
16	L-PFHxS	355-46-4	8.56	398.904 > 79.915	30587		39.517	2.04	NO	106.8
17	PFHxS	355-46-4		398.904 > 79.915	37570		48.057		na	
18	M3PFHxS	INT STD	8.56	401.926 > 80.317	10437		11.543		na	115.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.35	412.989 > 368.9	350746		49.225	8.57	NO	98.4
21	M2PFOA	INT STD	9.35	415.032 > 369.968	84038		9.989		na	99.9
22	PFOA	335-67-1		412.989 > 368.9	350746		49.225		na	
23	M8PFOA	INT STD	9.35	420.989 > 375.979	83420		10.410		na	104.1
24	6:2FTS	27619-97-2	9.31	426.989 > 406.921	4879		48.052	0.70	NO	101.2
25	M2-6:2FTS	INT STD	9.31	428.989 > 408.917	4256		13.008		na	130.1
26	PFHpS	375-92-8	9.44	448.926 > 80.257	29451		52.941	1.09	NO	111.5
27	PFNA	375-95-1	10.09	462.989 > 418.931	327238		52.888	4.24	NO	105.8
28	M9PFNA	INT STD	10.09	472.053 > 426.947	83157		10.614		na	106.1
29	br-PFOS	1763-23-1	9.96	498.968 > 79.918	8976	M5	10.210	3.75	NO	102.1
30	L-PFOS	1763-23-1	10.15	498.968 > 79.918	22900		38.328	1.37	NO	105.0
31	PFOS	1763-23-1		498.968 > 79.918	31876		48.538		na	
32	M4PFOS	INT STD	10.15	503.032 > 80.306	7867		9.262		na	92.6
33	M8PFOS	INT STD	10.14	507.053 > 80.294	10819		11.842		na	118.4
34	PFDA	335-76-2	10.72	513.053 > 468.906	301249		49.719	5.97	NO	99.4
35	M2PFDA	INT STD	10.72	515.053 > 469.934	68134		10.300		na	103.0
36	M6PFDA	INT STD	10.72	519.053 > 473.931	79104		10.552		na	105.5
37	8:2FTS	39108-34-4	10.71	527.032 > 507.079	6599		47.176	1.68	NO	98.3
38	M2-8:2FTS	INT STD	10.71	529.053 > 508.945	2351		11.885		na	118.8
39	PFNS	68259-12-1	10.74	548.989 > 80.249	38100		51.774	1.56	NO	107.9

all concentration units in (ng/mL)

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ID: IA2-537STD50.0
Name: I18531
Date: 27-Feb-2020
Time: 14:35:26
Description: WG1345050,,537_200120_5
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	9927		9.996		na	100.0
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	30740		51.815	2.80	NO	103.6
42	PFUnA	2058-94-8	11.26	562.989 > 518.903	299291		50.928	7.86	NO	101.9
43	M7-PFUDA	INT STD	11.26	570.053 > 524.923	64158		9.740		na	97.4
44	PFDS	335-77-3	11.26	598.926 > 80.314	36514		50.898	1.55	NO	105.5
45	FOSA	754-91-6	11.12	497.989 > 78.245	122439		49.017	192.48	NO	98.0
46	M8FOSA	INT STD	11.12	506.053 > 78.286	30322		10.093		na	100.9
47	d5-NEtFOSAA	INT STD	11.37	589.117 > 418.929	8024		11.081		na	110.8
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	29531		43.142	3.13	NO	86.3
49	PFDoA	307-55-1	11.72	612.989 > 568.967	342919		53.190	14.17	NO	106.4
50	MPFDOA	INT STD	11.72	614.989 > 569.92	71010		10.027		na	100.3
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	333978		52.841	12.06	NO	105.7
52	PFTA	376-06-7	12.48	713.053 > 668.976	324915		53.825	9.06	NO	107.7
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	81472		10.207		na	102.1

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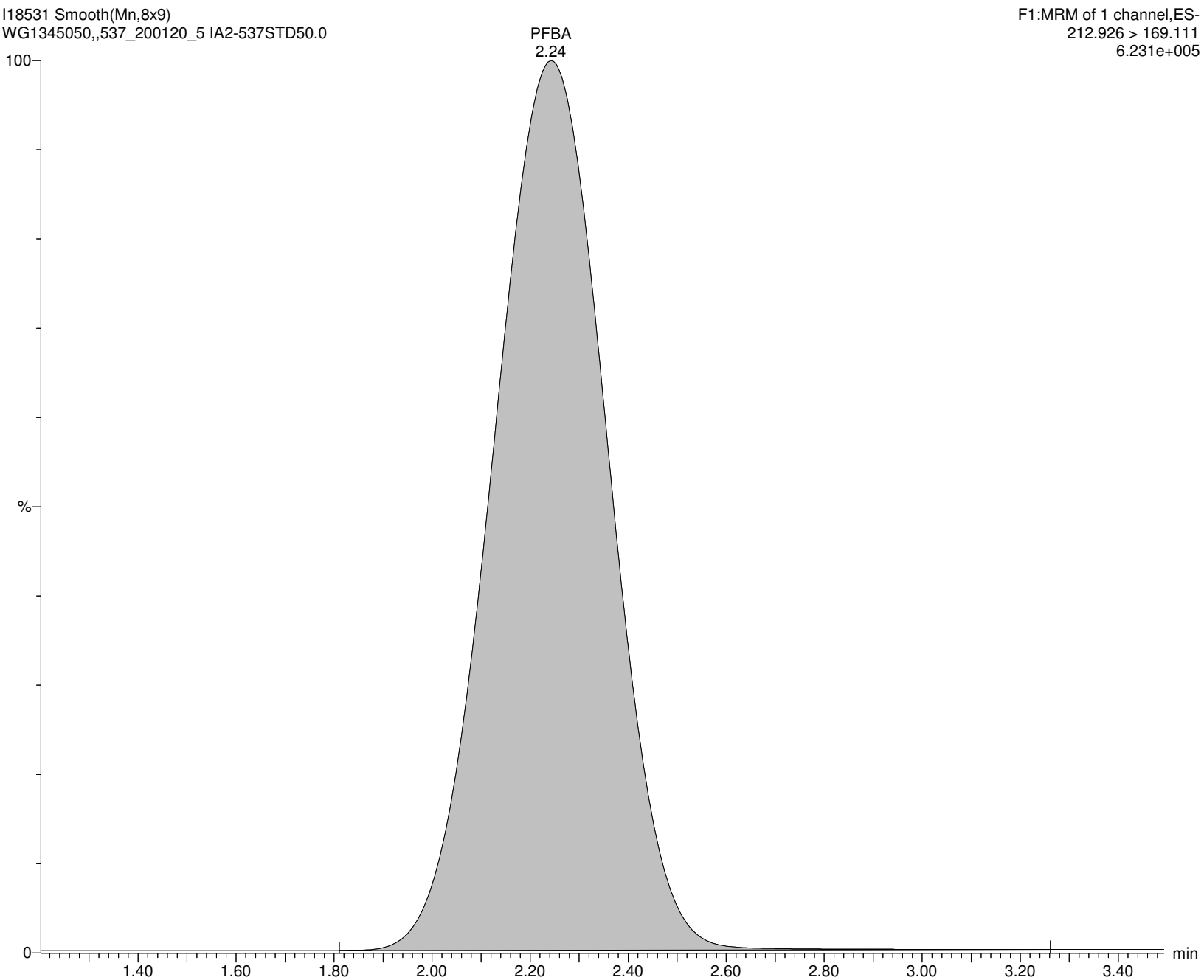

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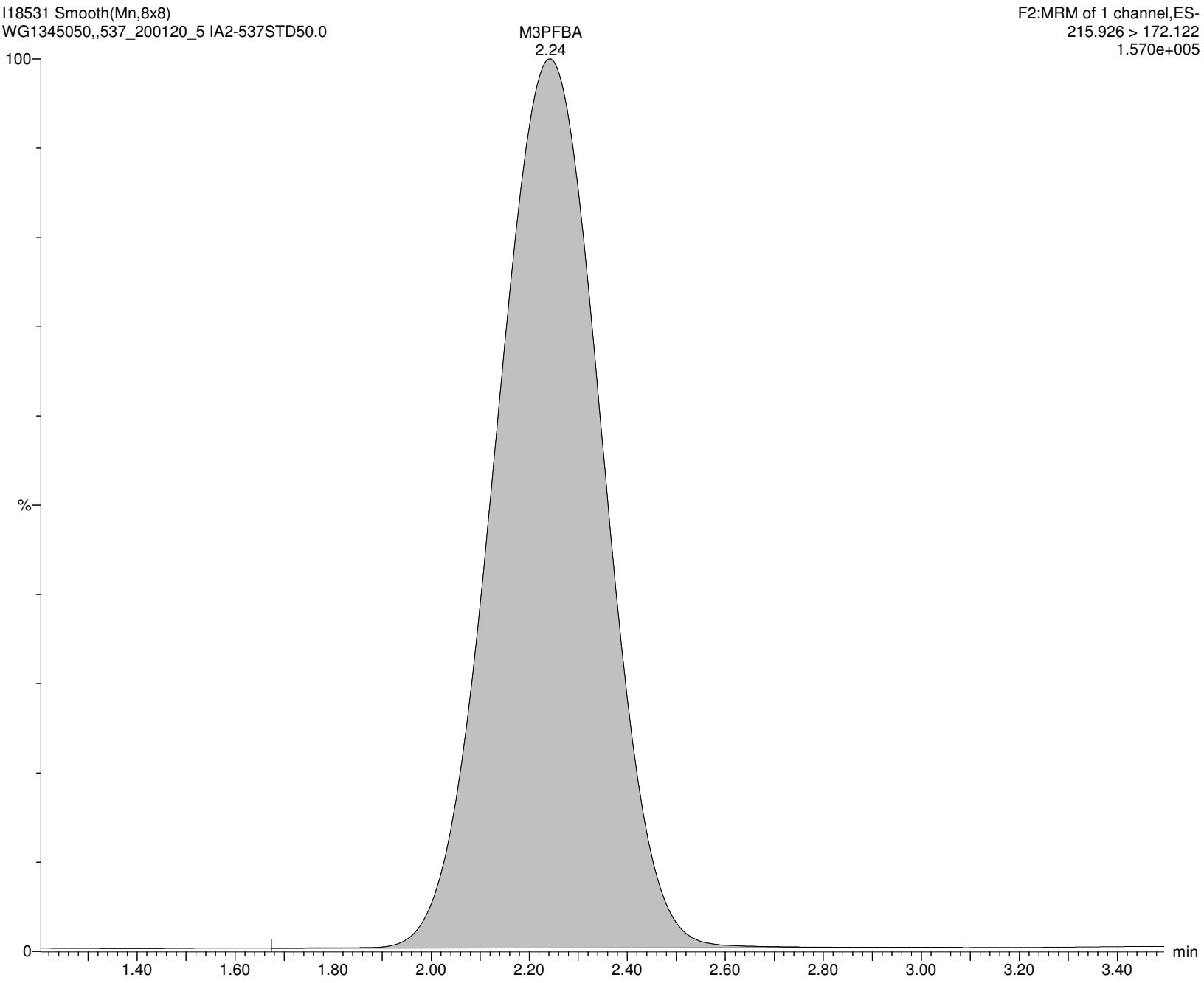

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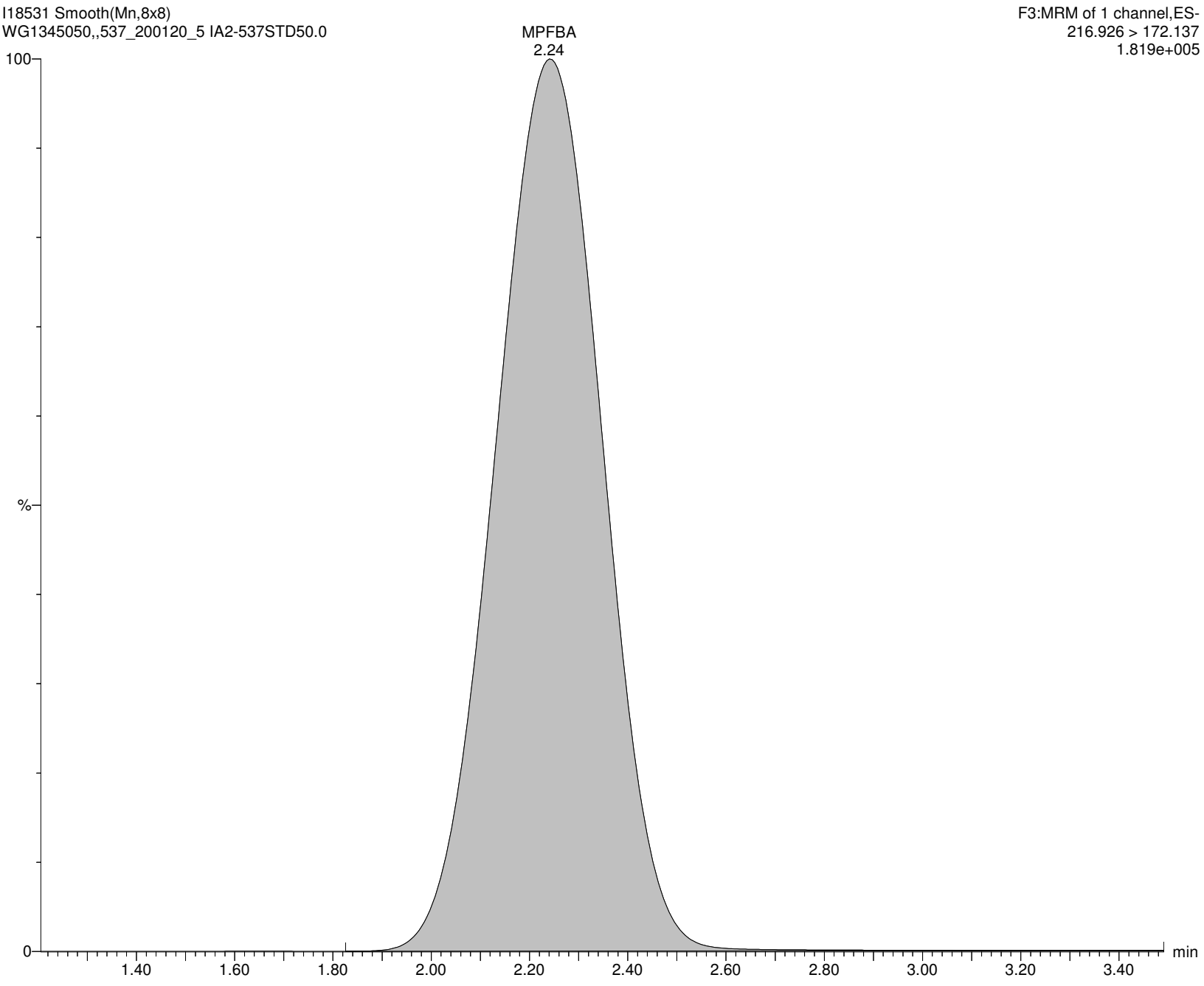

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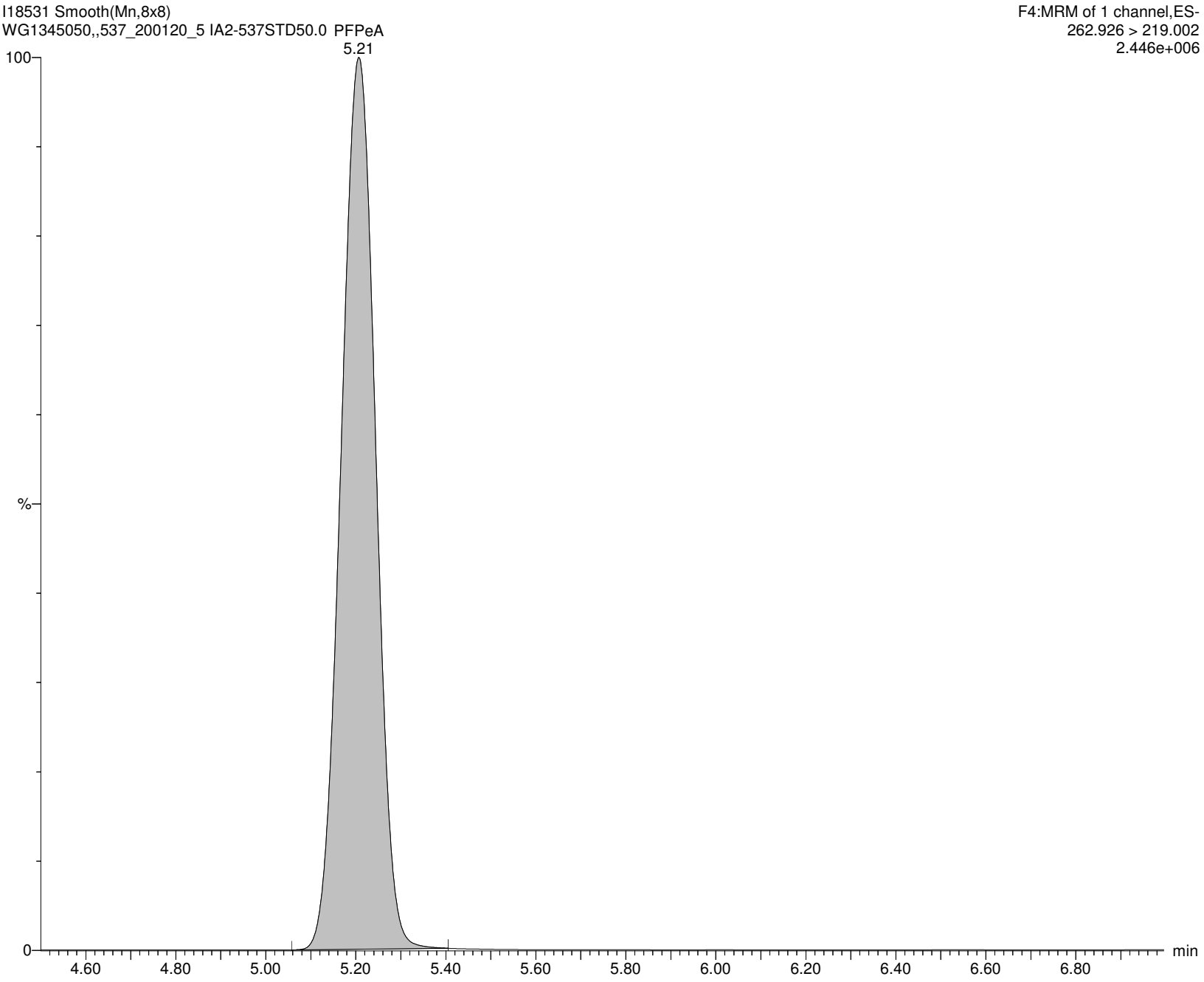

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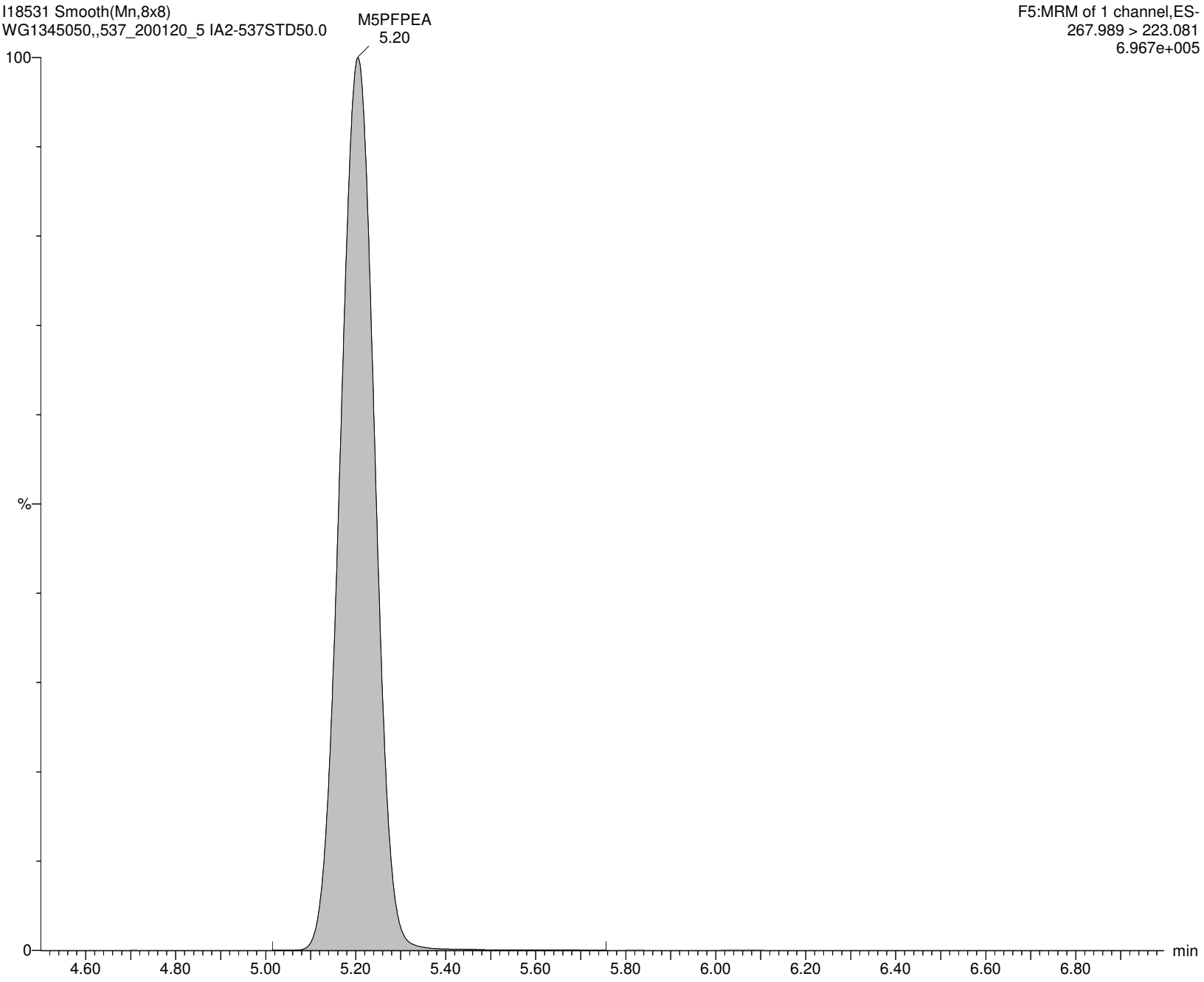

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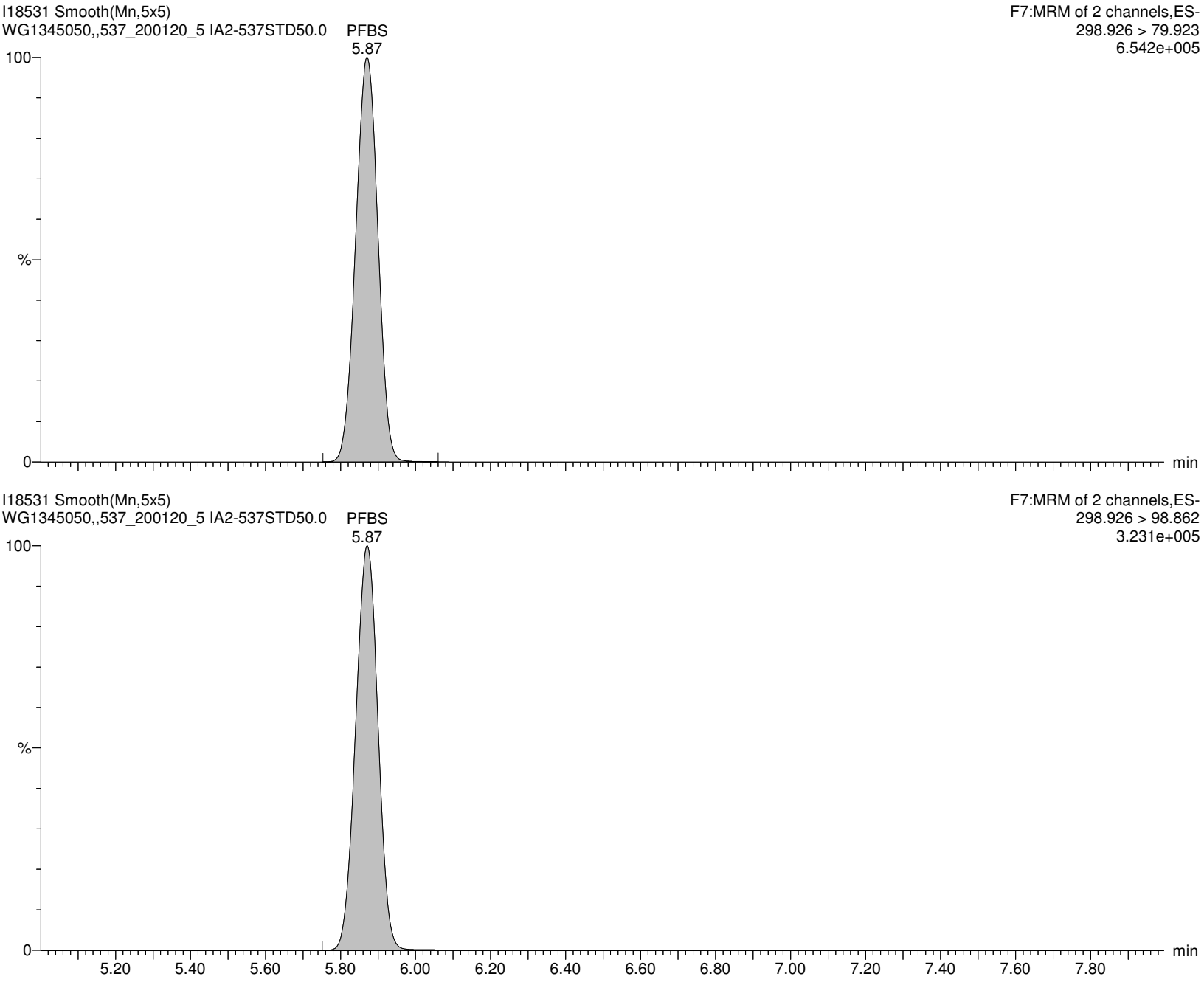

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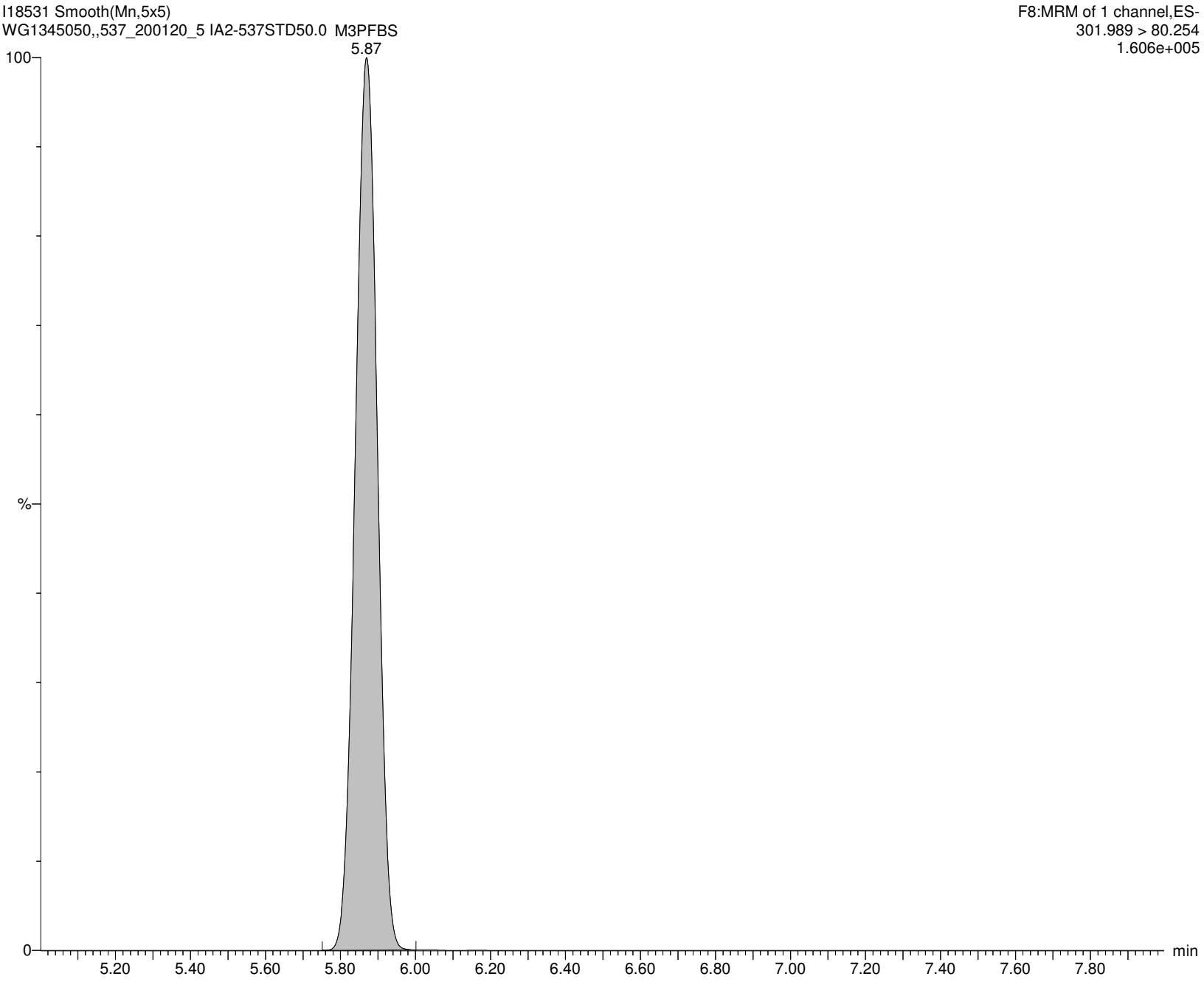
M3PFBS



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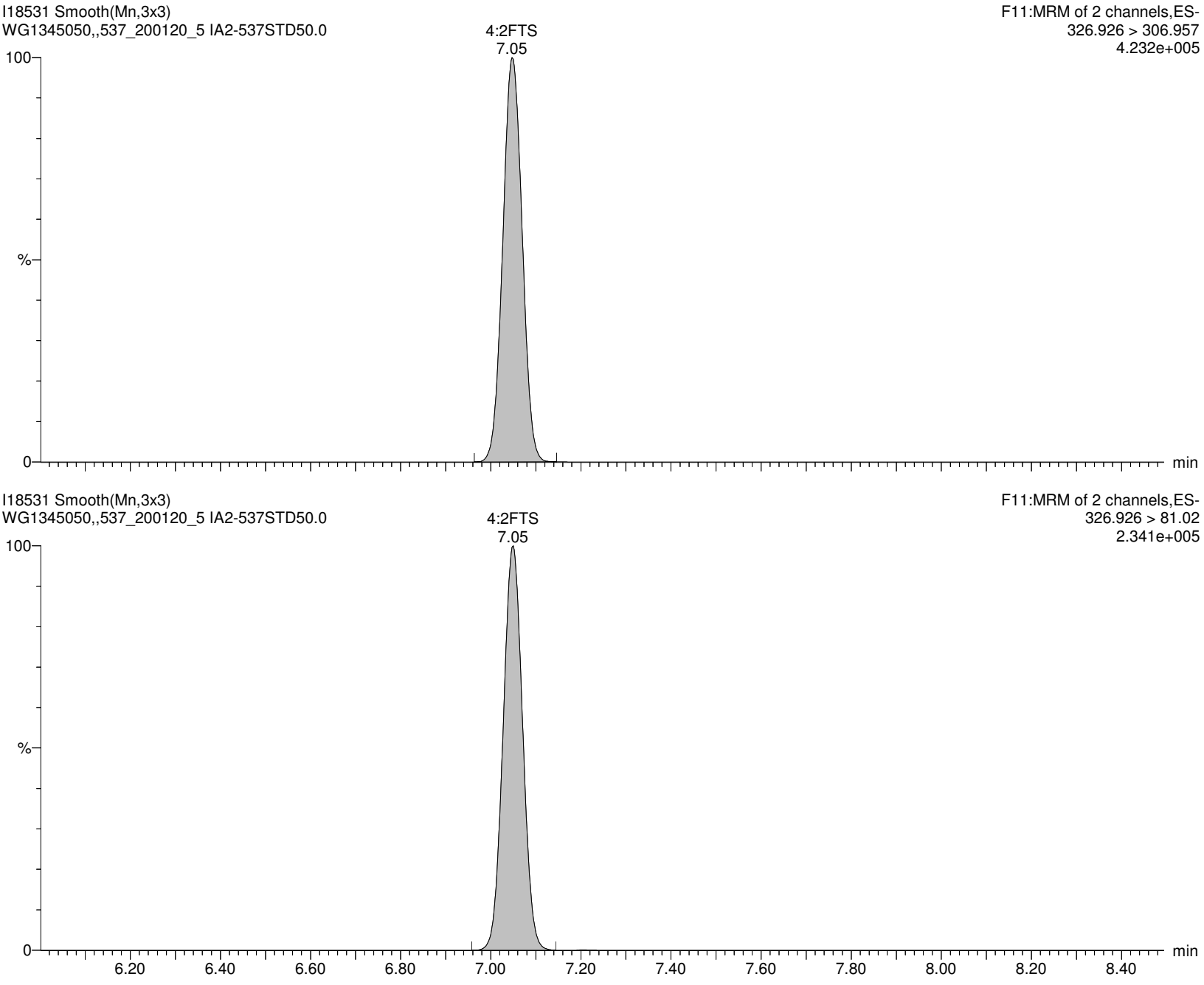
4:2FTS



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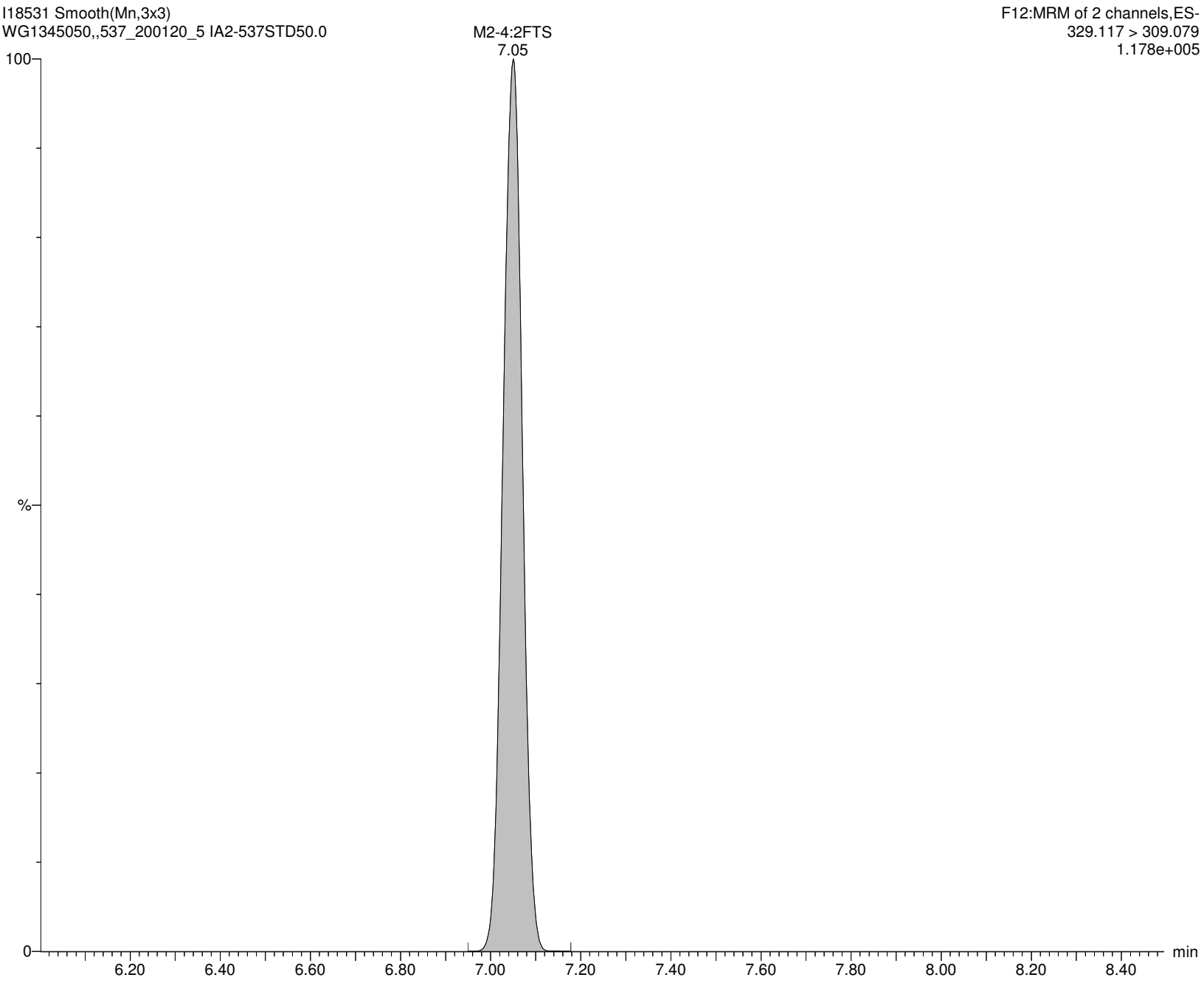

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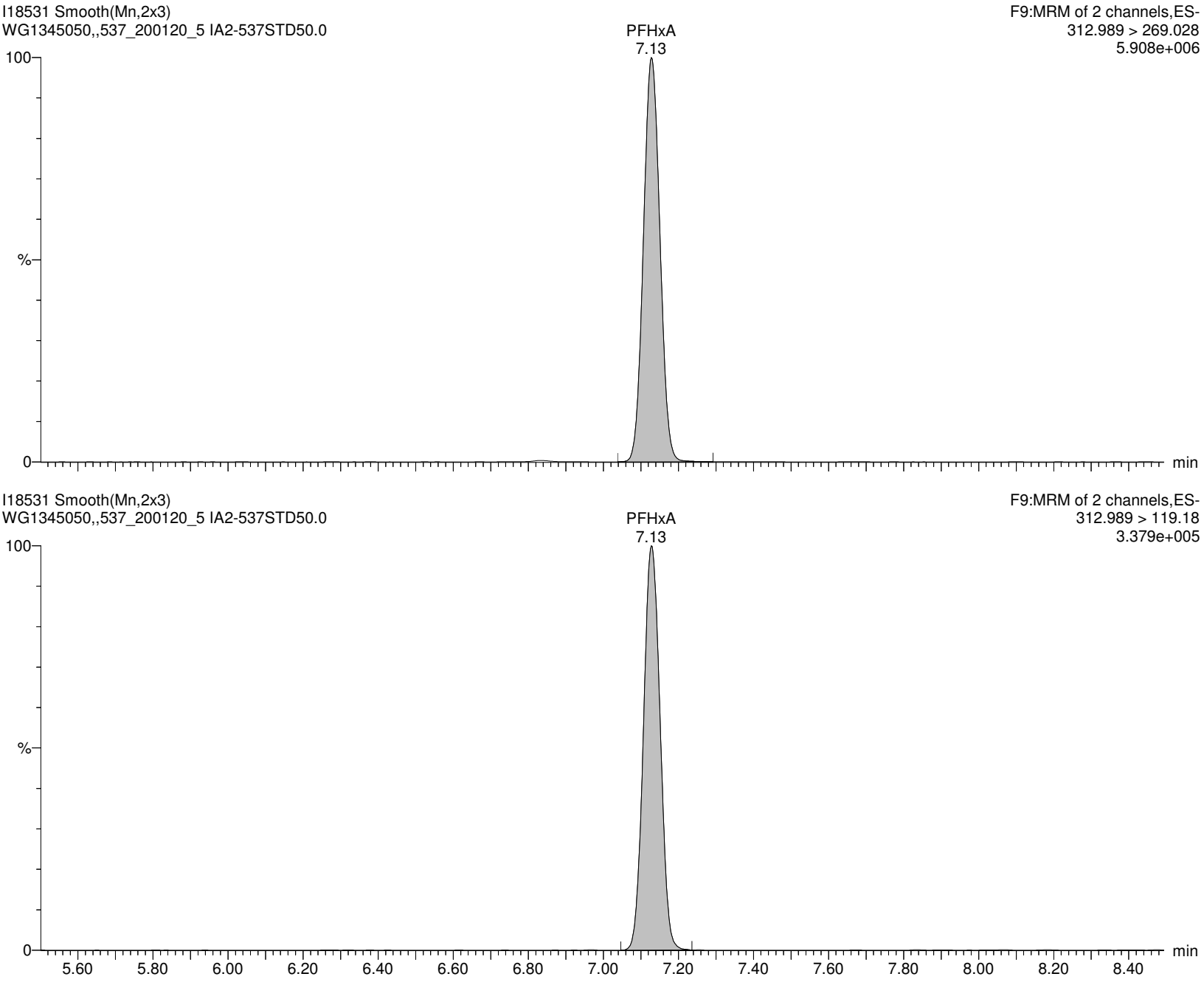

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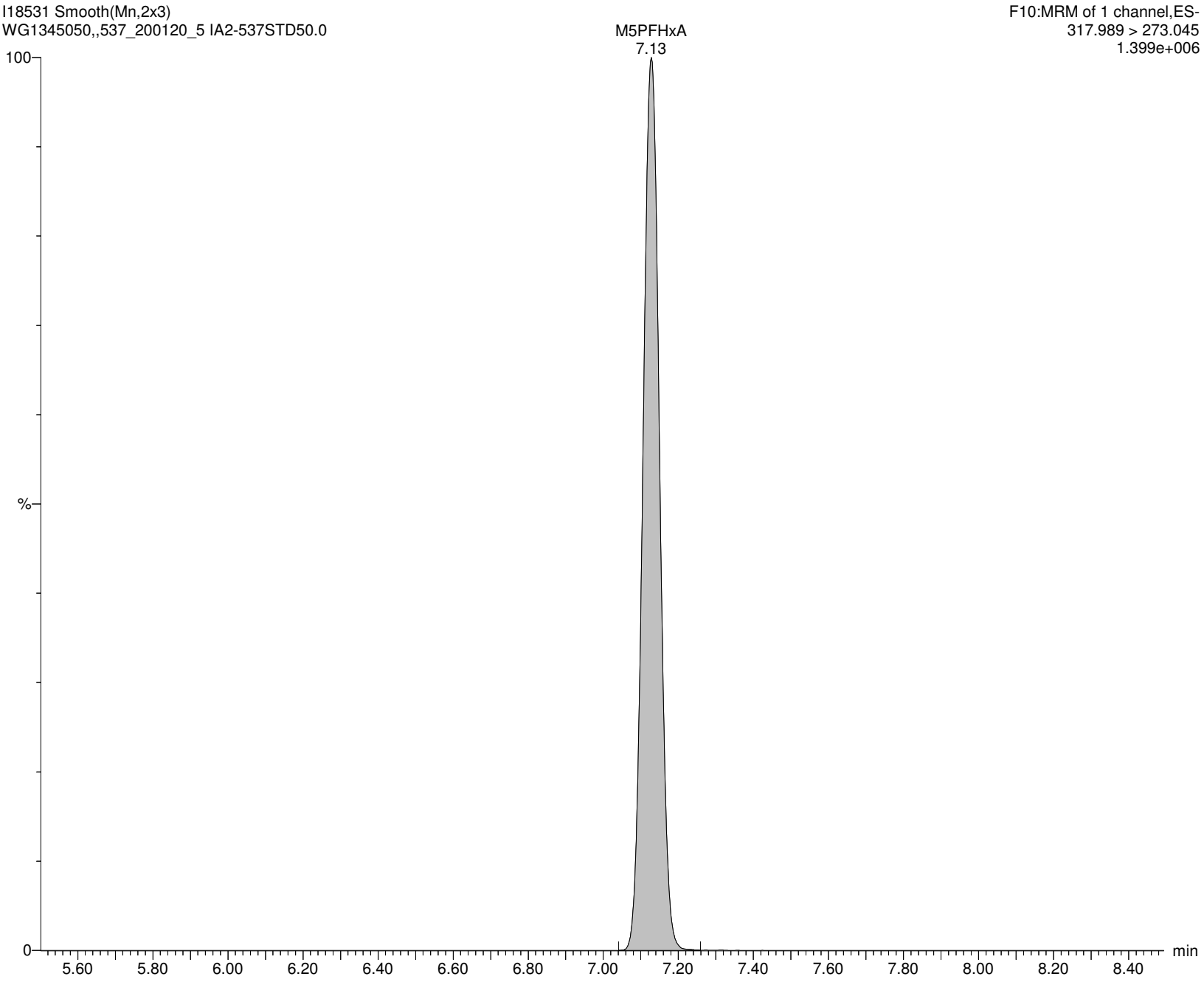

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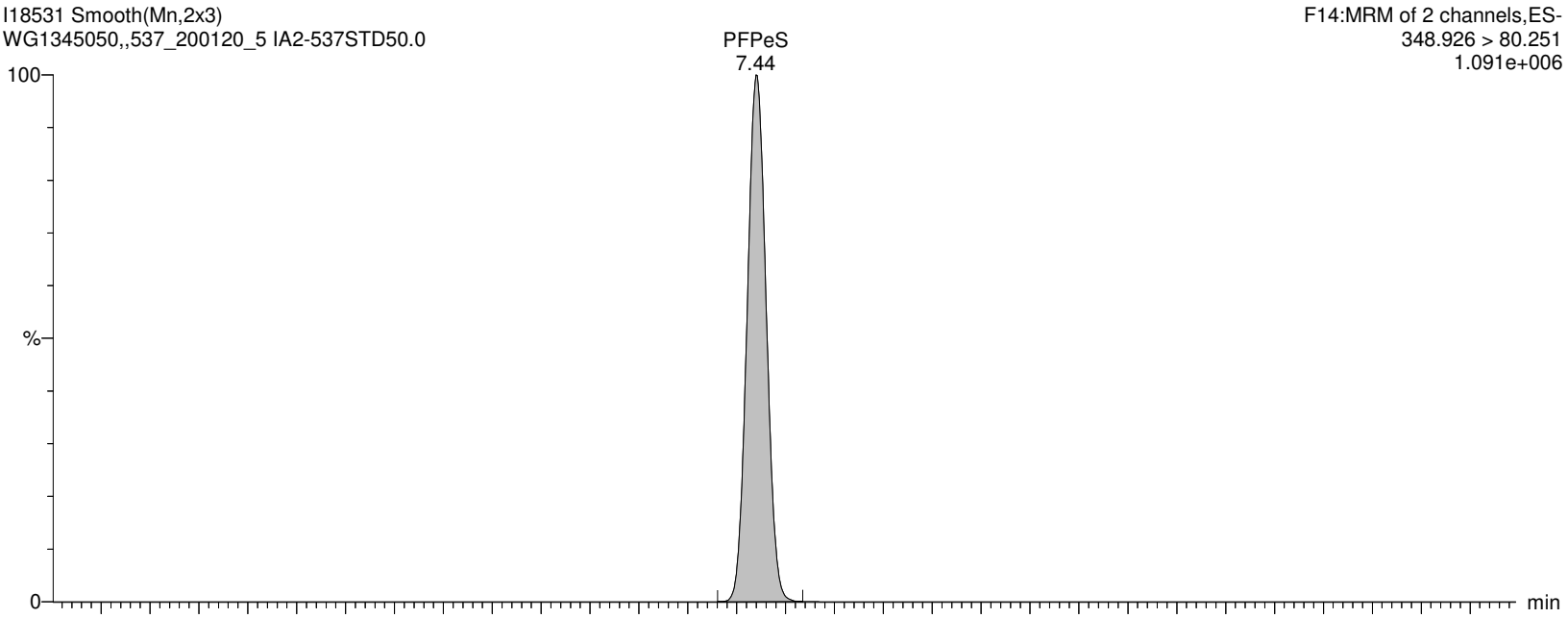

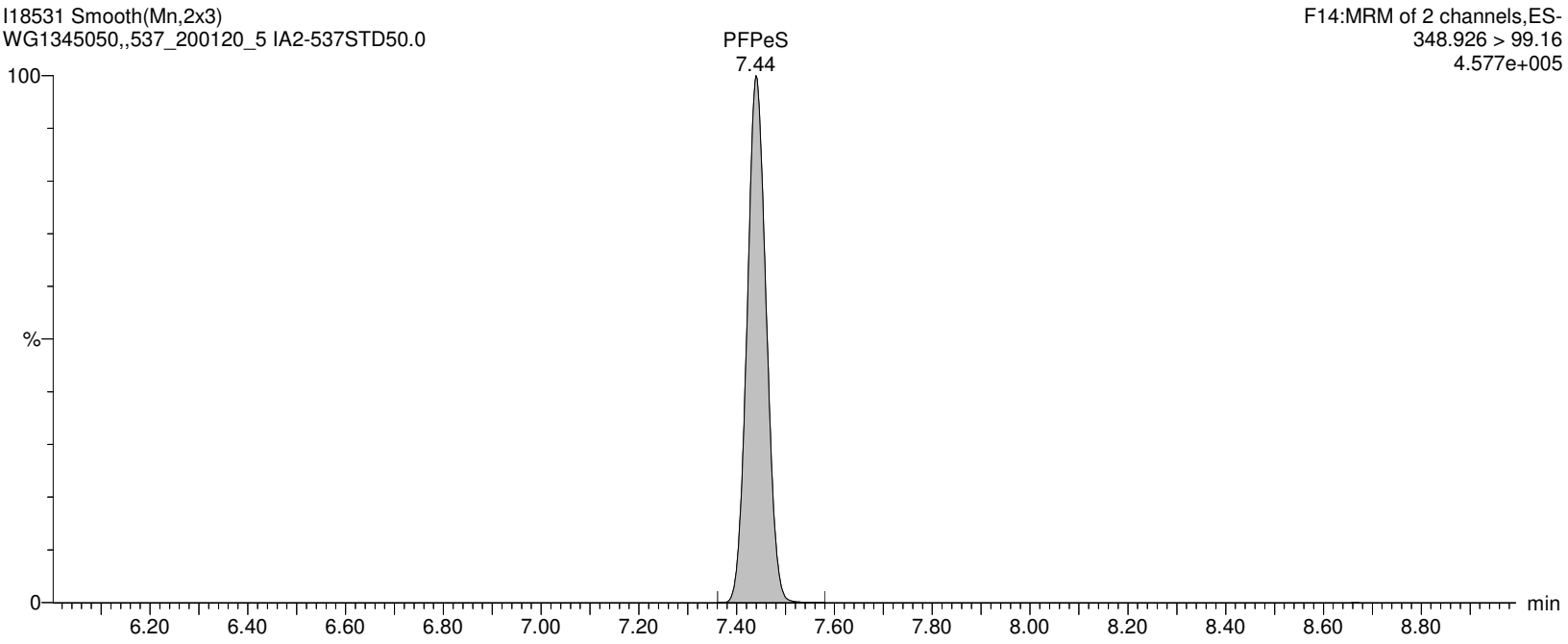

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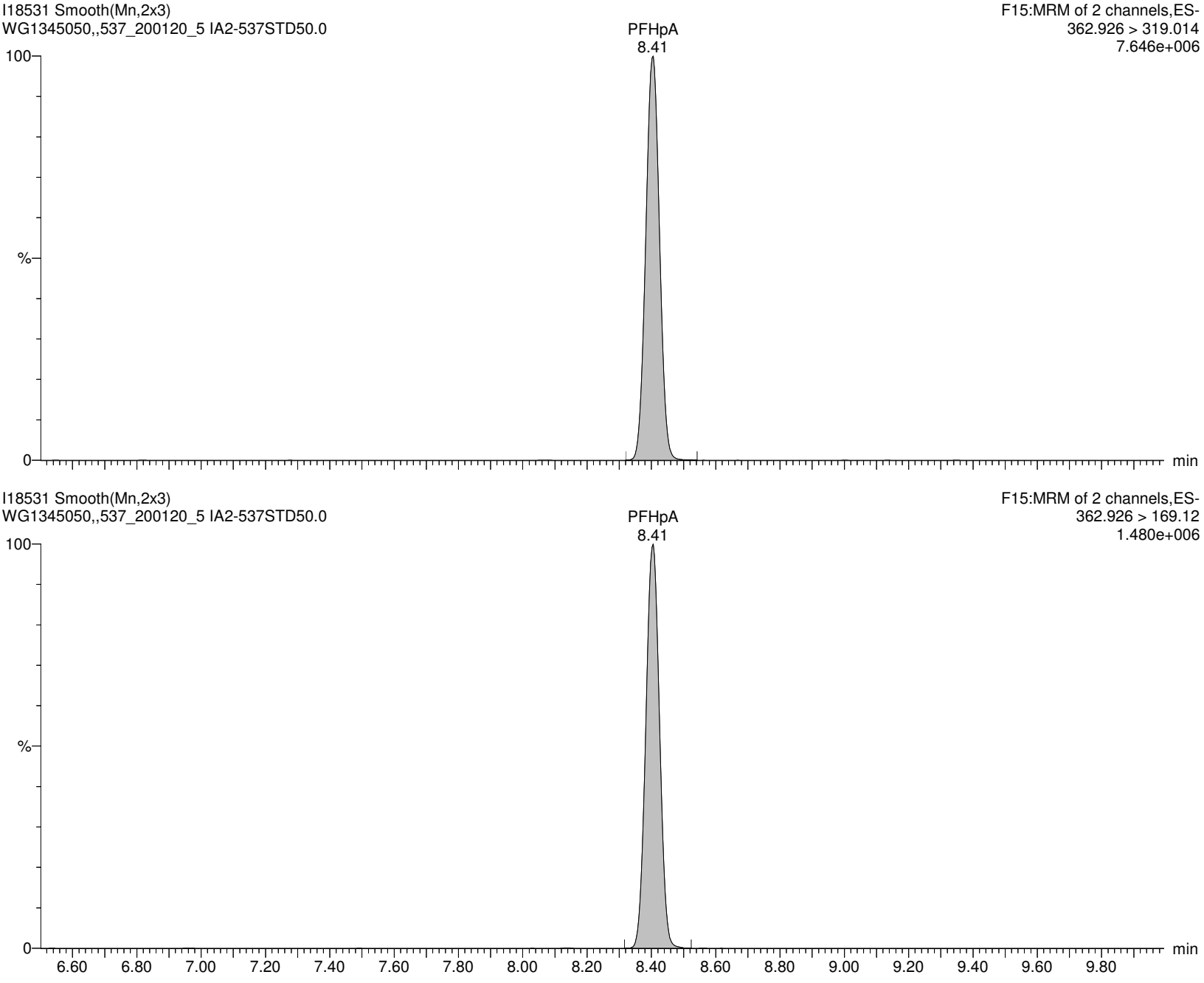

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:51 Eastern Standard Time

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Date: 27-Feb-2020
Time: 14:35:26
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User: LCMS01:SG
Vial: 1:A,6
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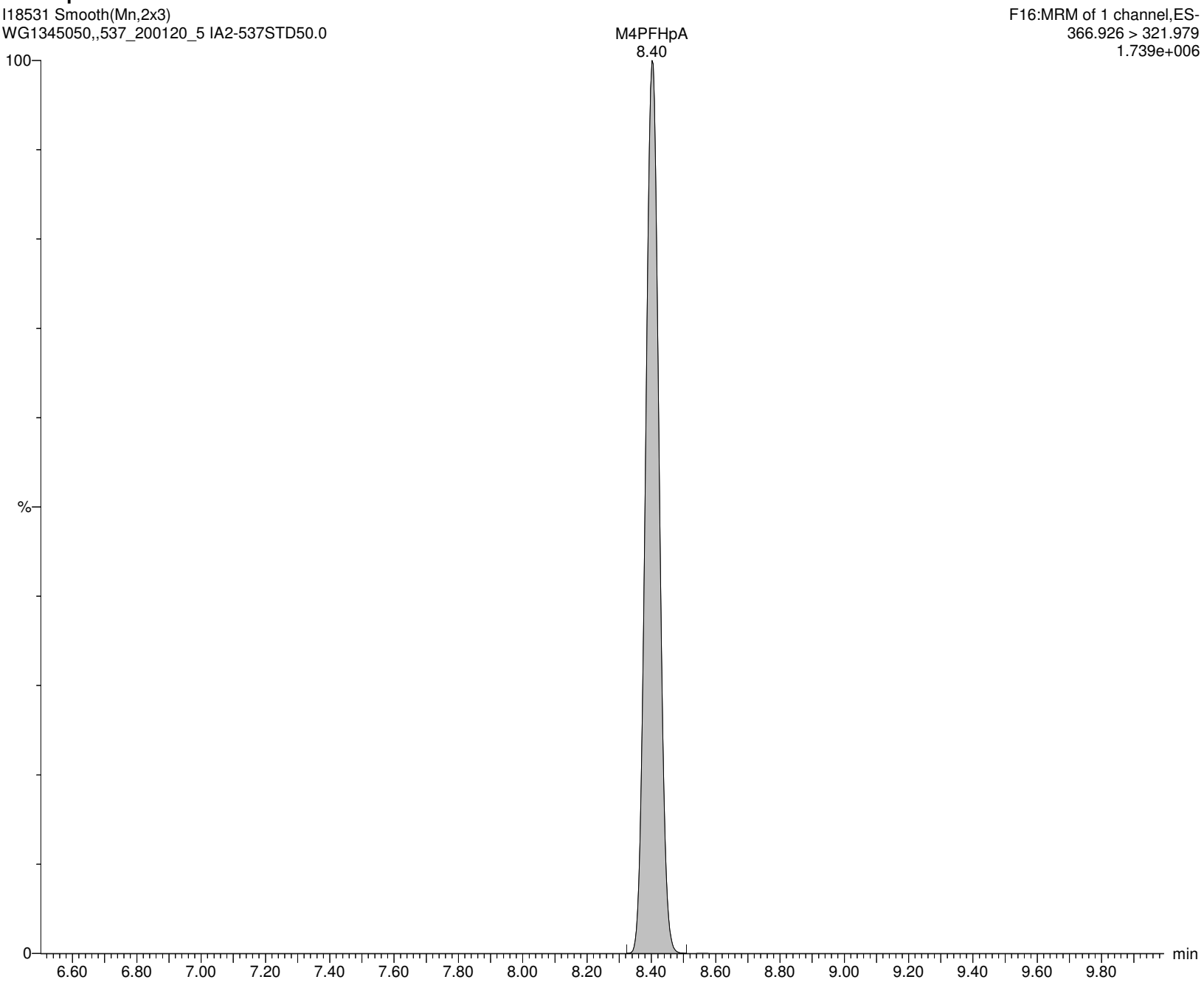

all concentration units in (ng/mL)

Alpha Analytical Inc.
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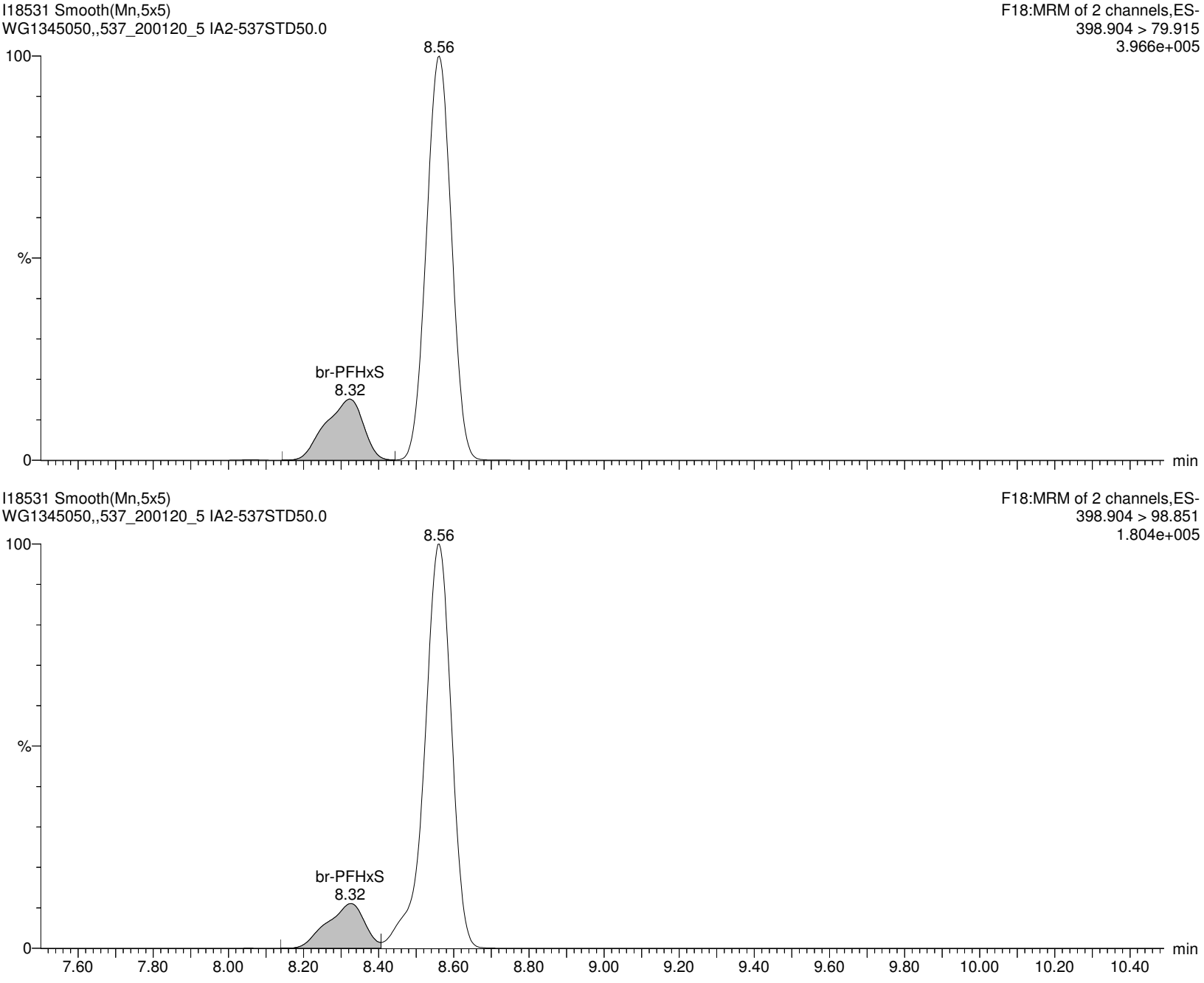

all concentration units in (ng/mL)

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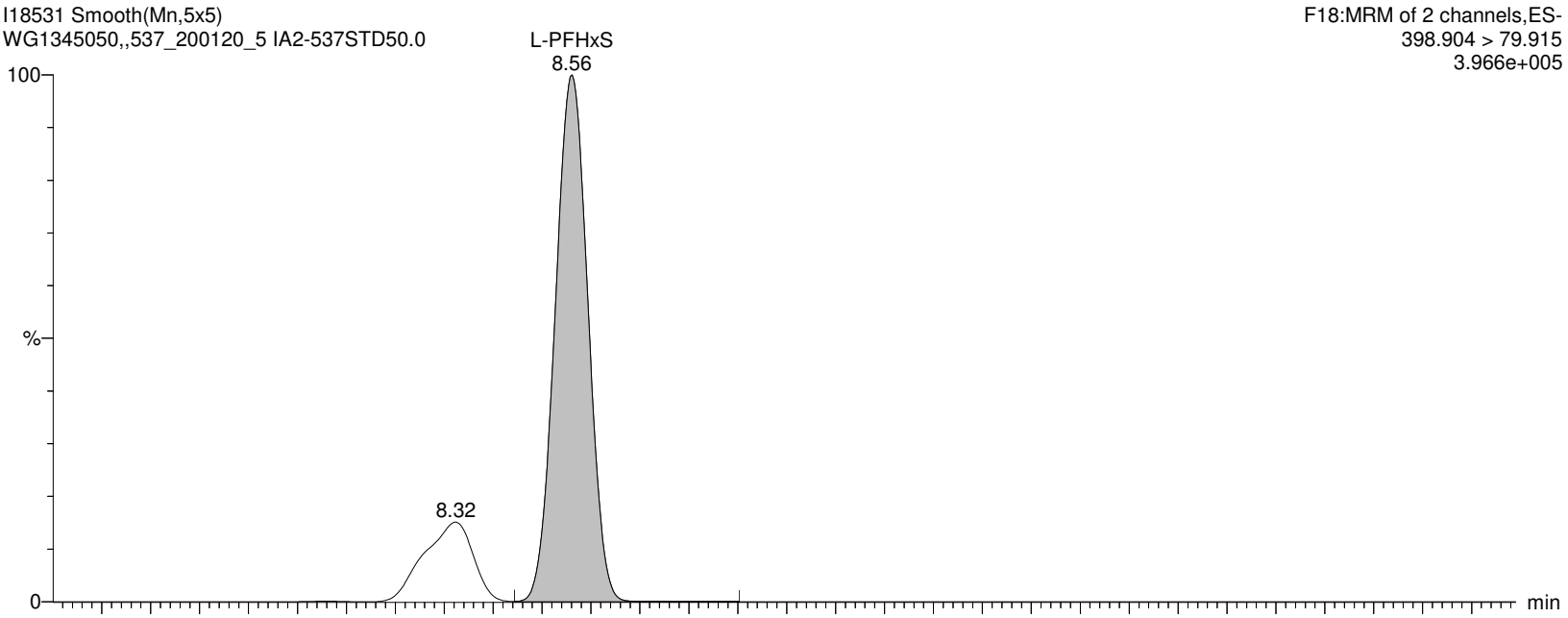

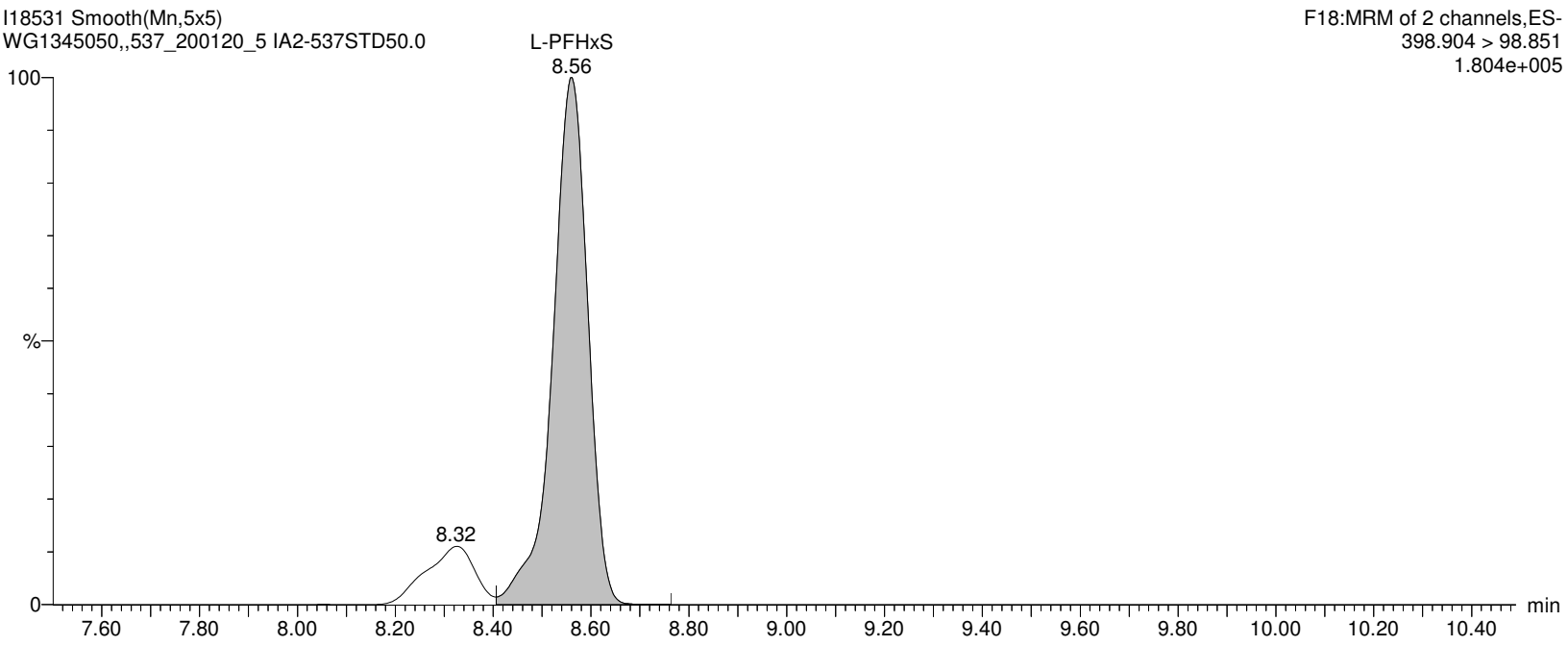

all concentration units in (ng/mL)

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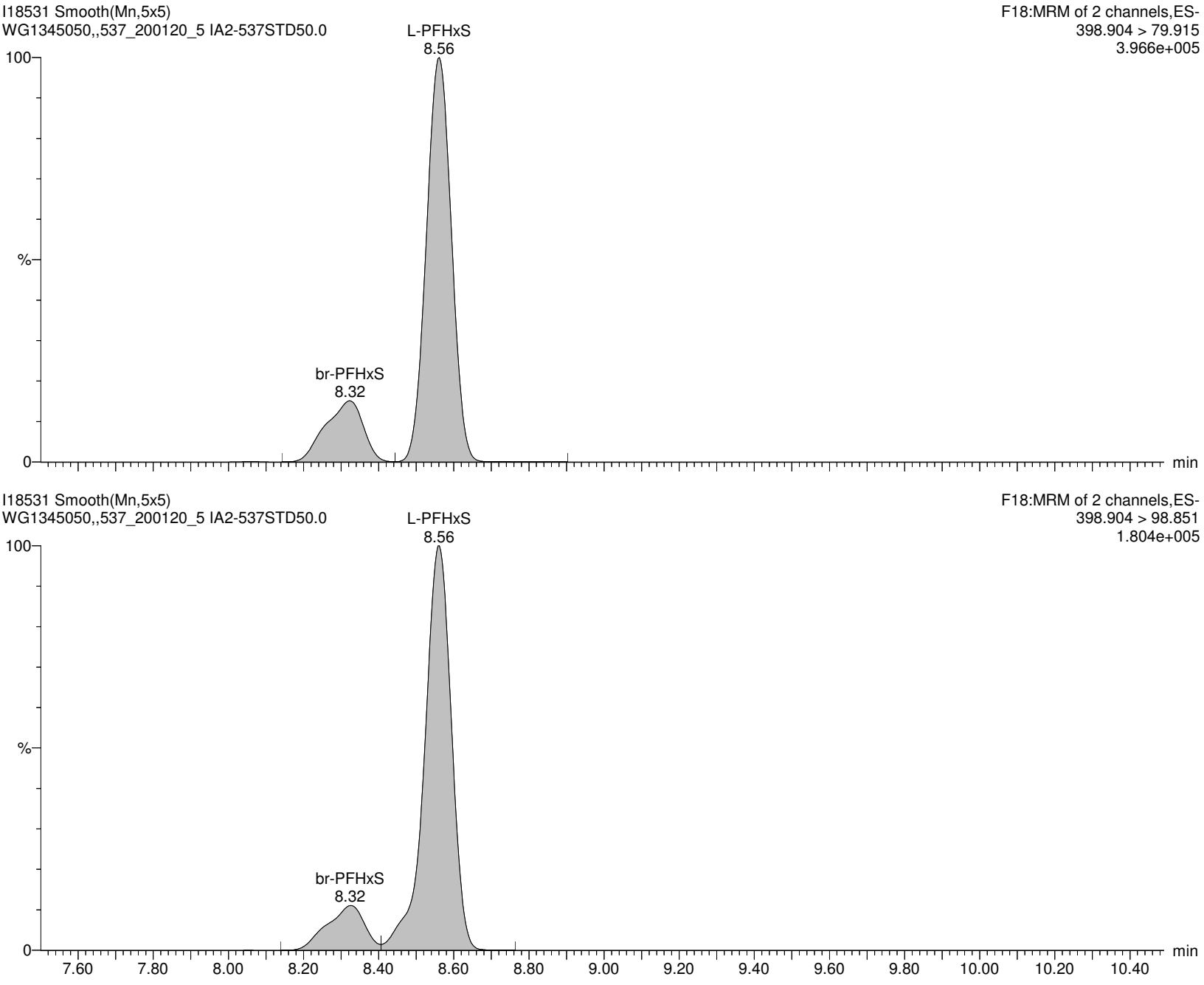

all concentration units in (ng/mL)

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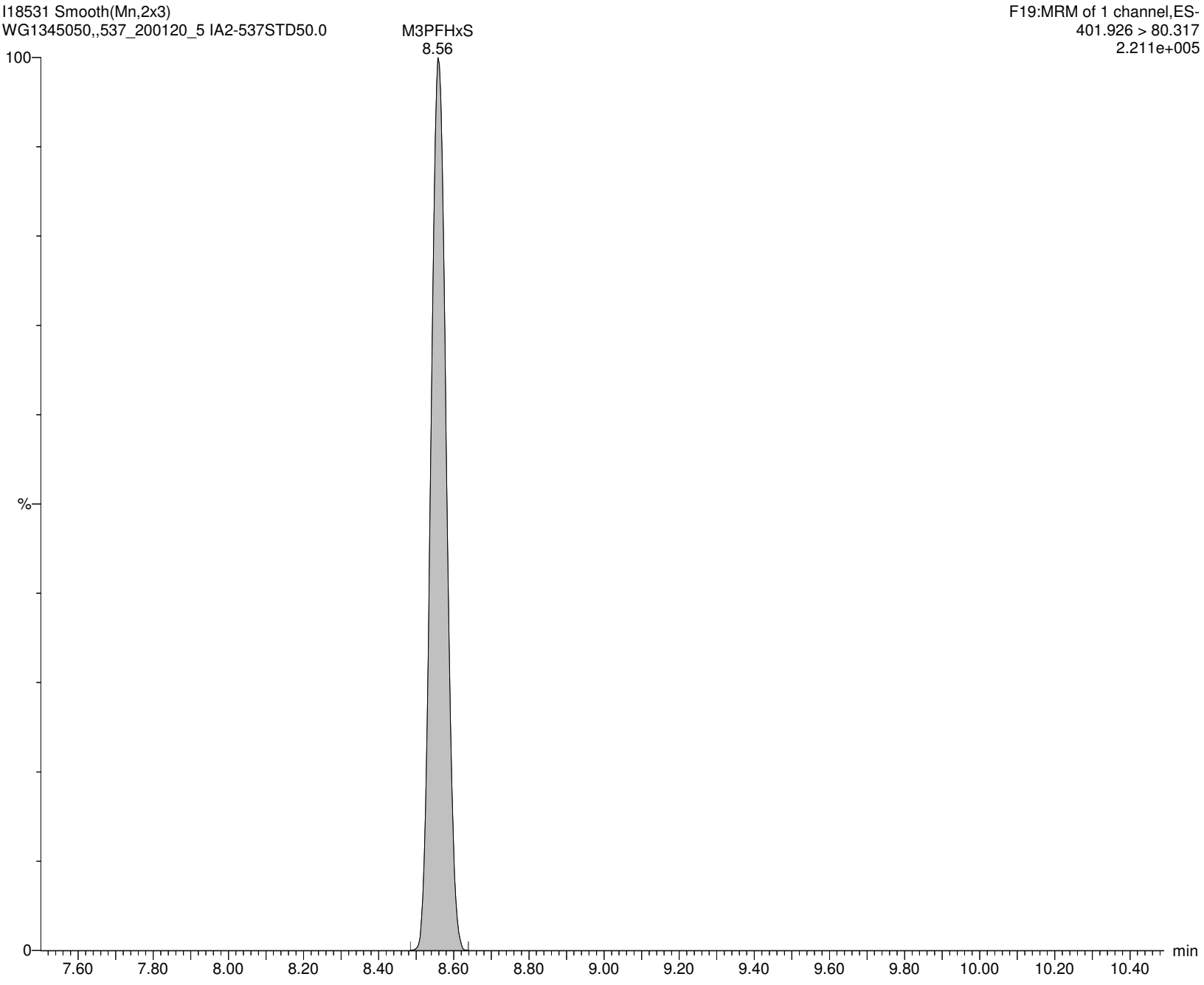

all concentration units in (ng/mL)

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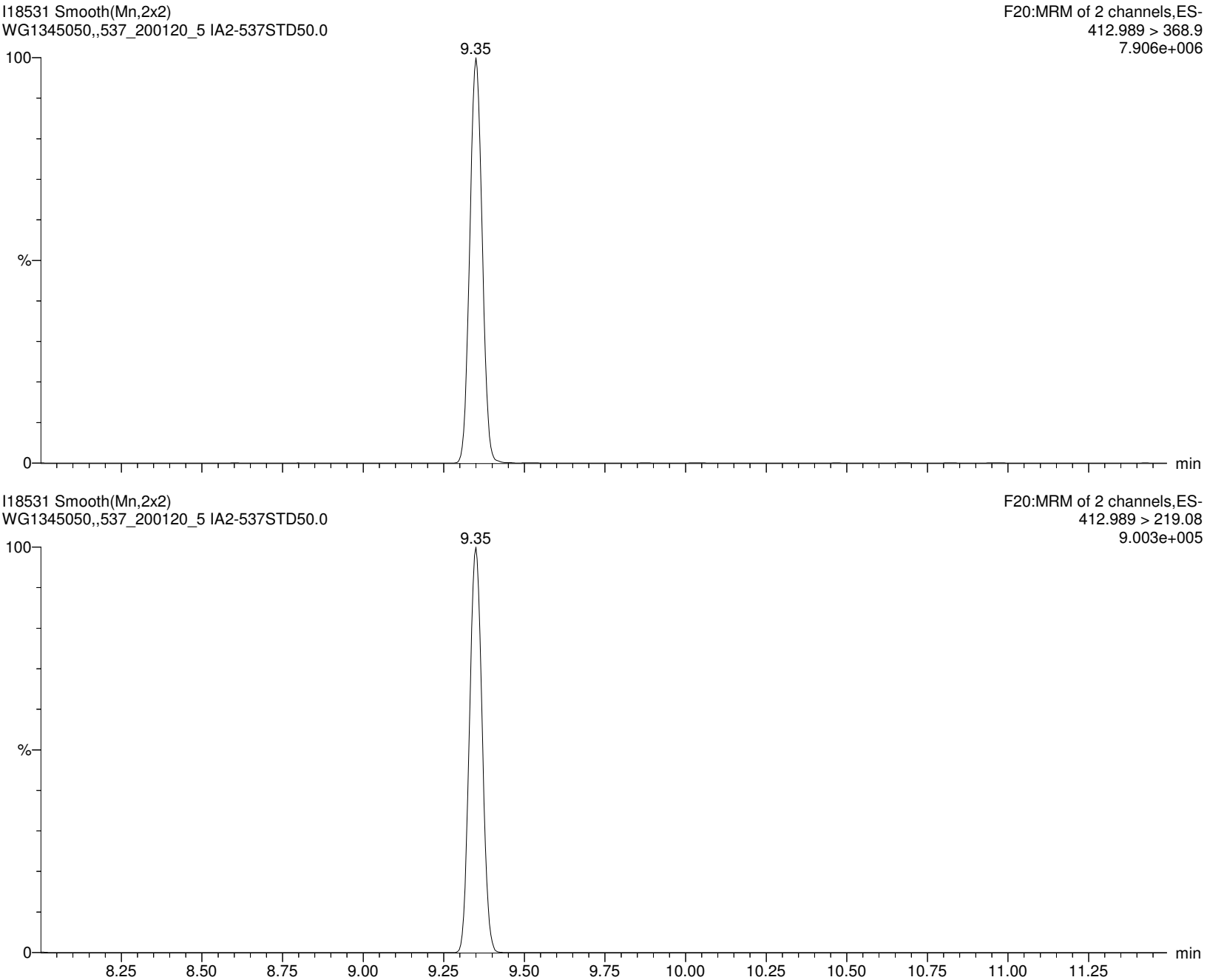

all concentration units in (ng/mL)

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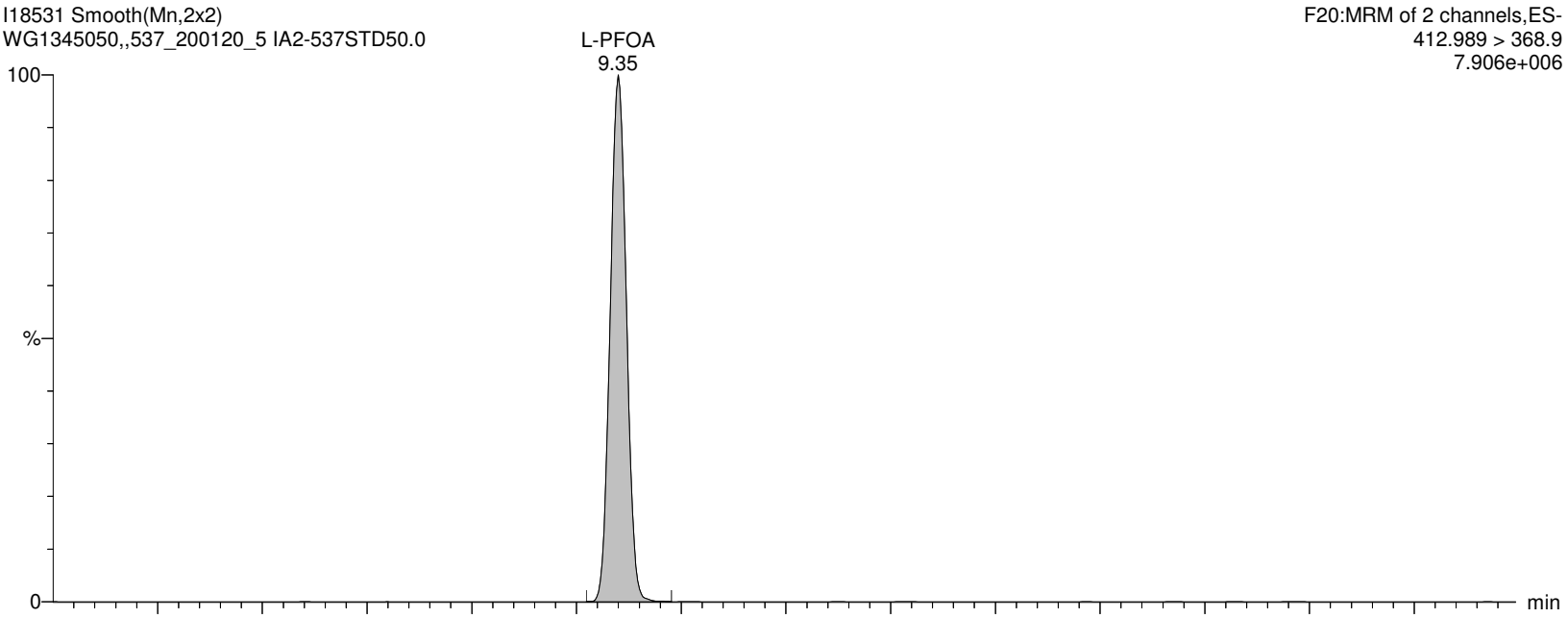

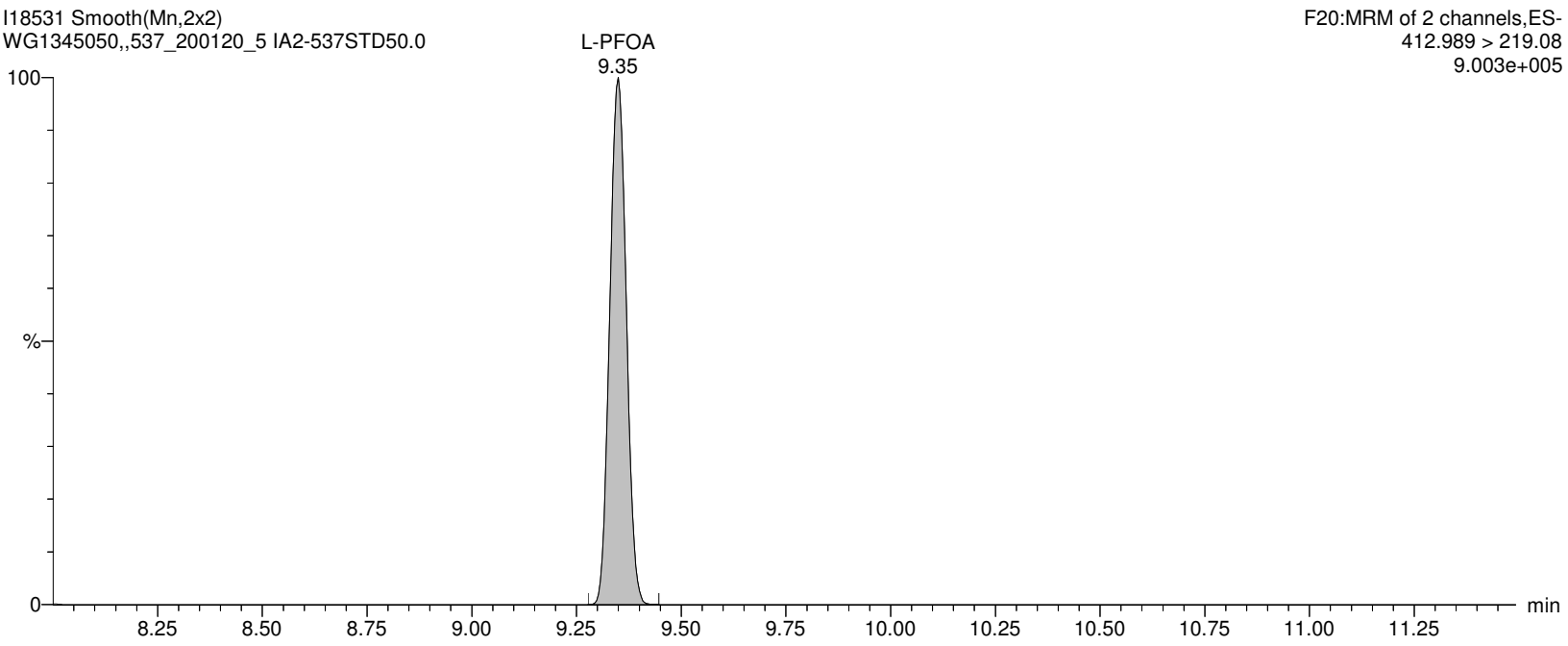

all concentration units in (ng/mL)

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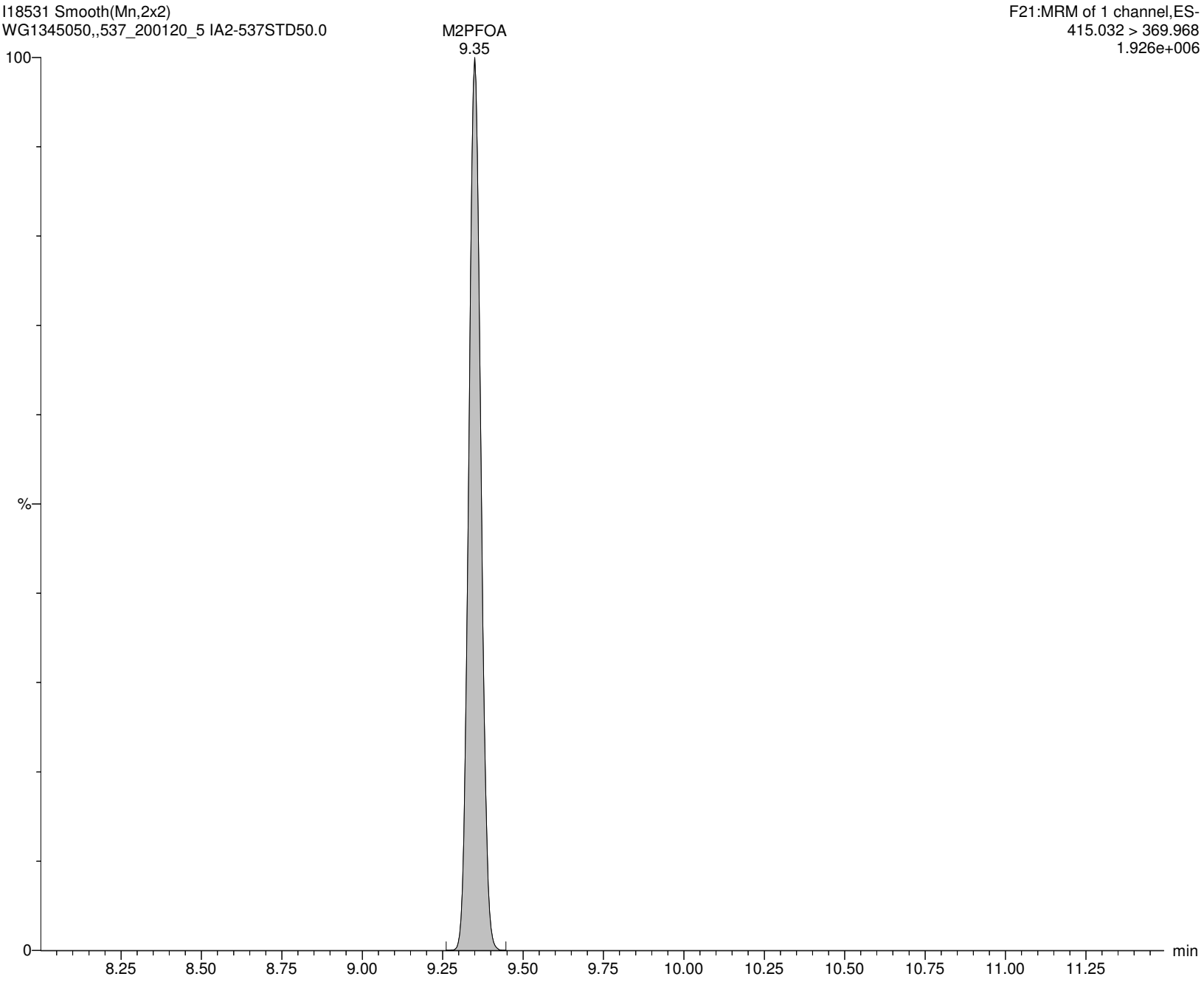

all concentration units in (ng/mL)

Alpha Analytical Inc.
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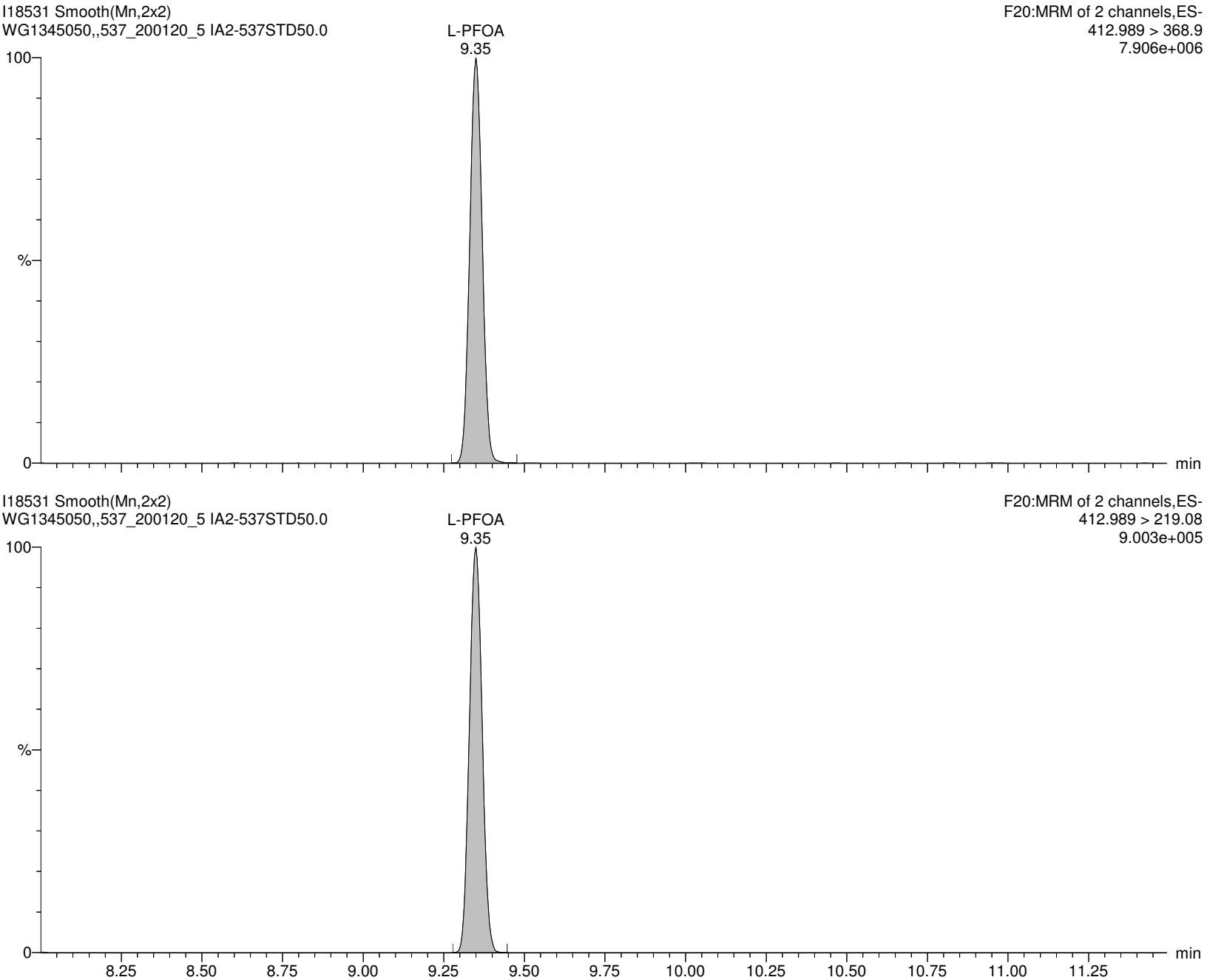

all concentration units in (ng/mL)

Alpha Analytical Inc.
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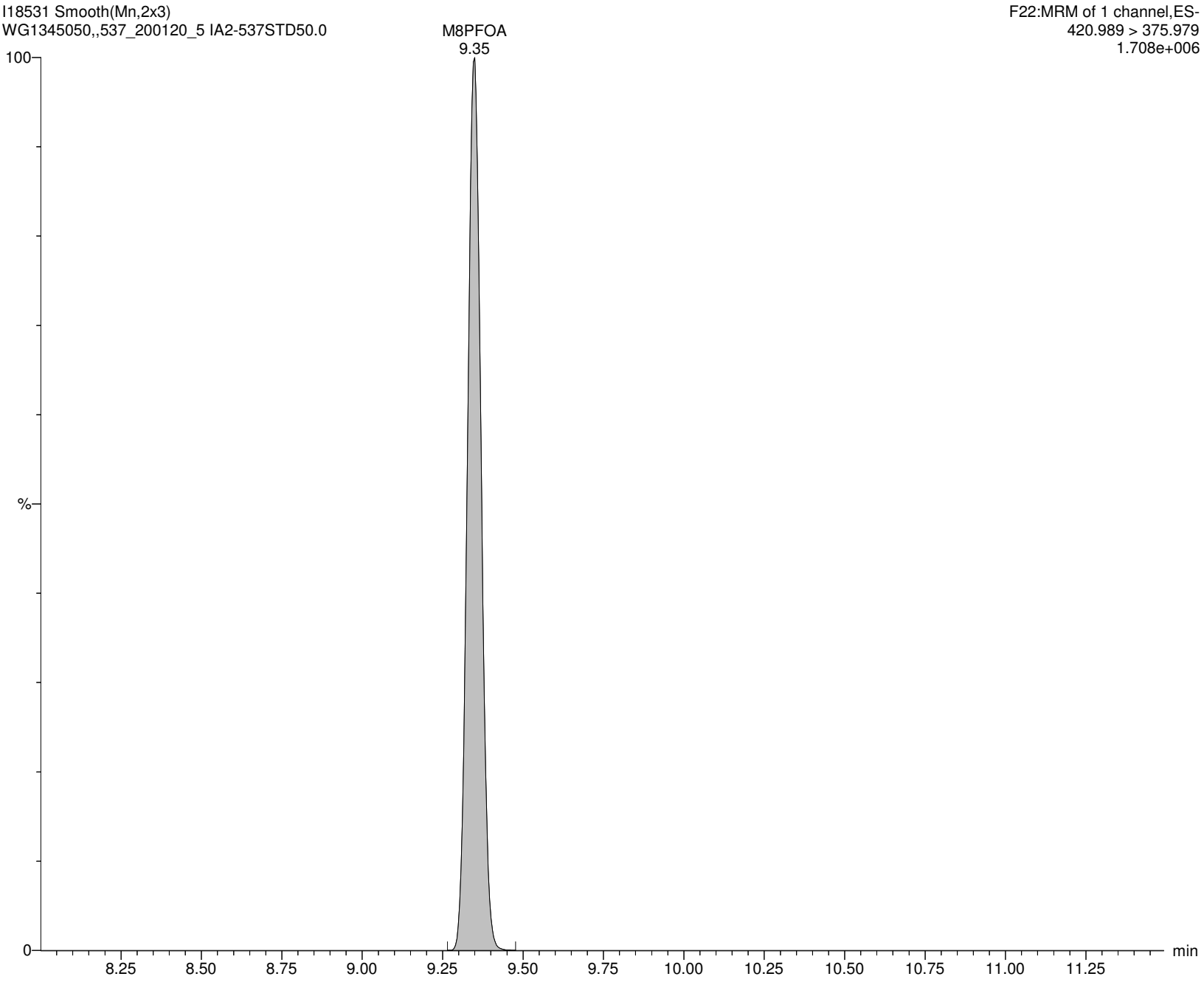

all concentration units in (ng/mL)

Alpha Analytical Inc.
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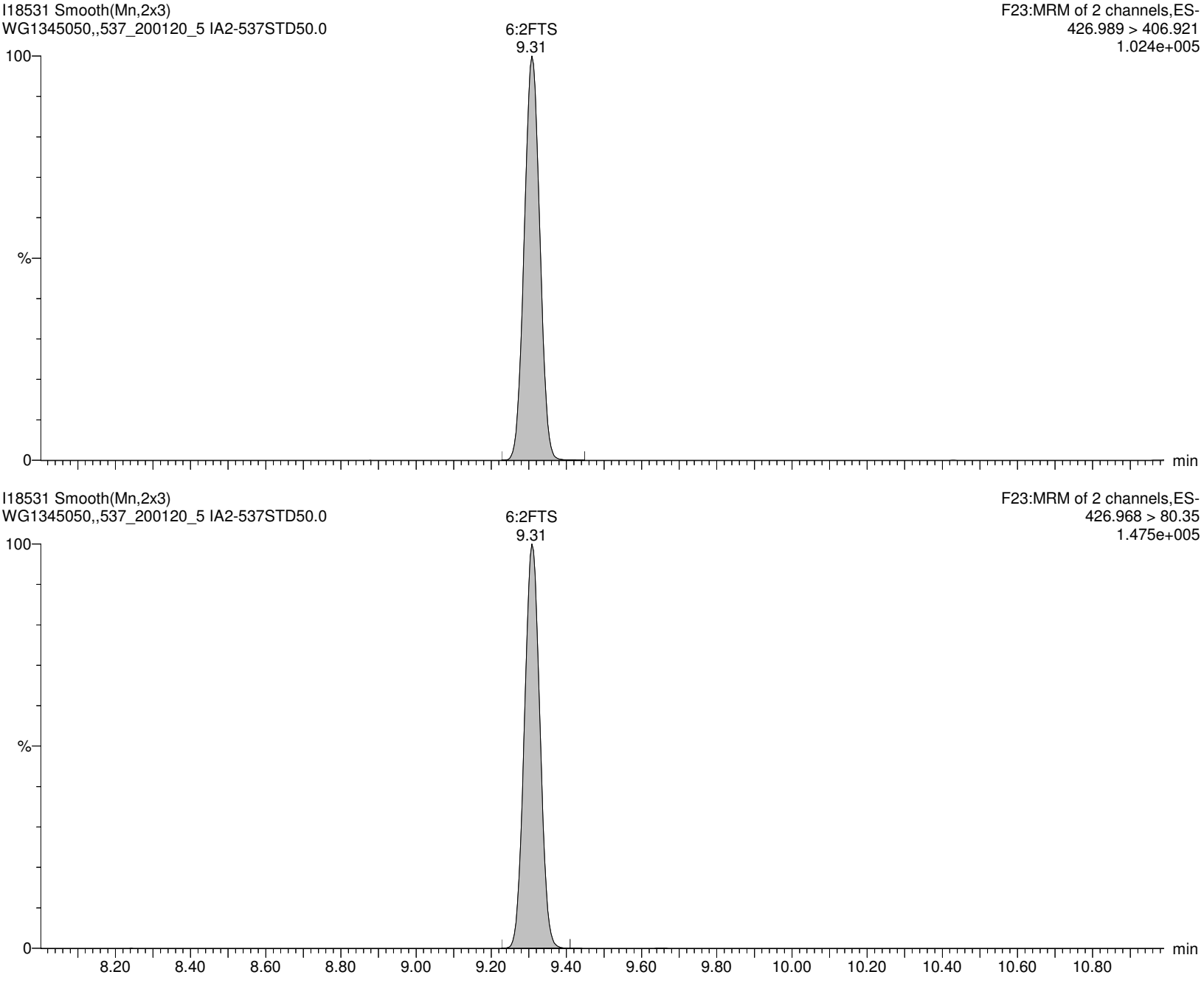

all concentration units in (ng/mL)

Alpha Analytical Inc.
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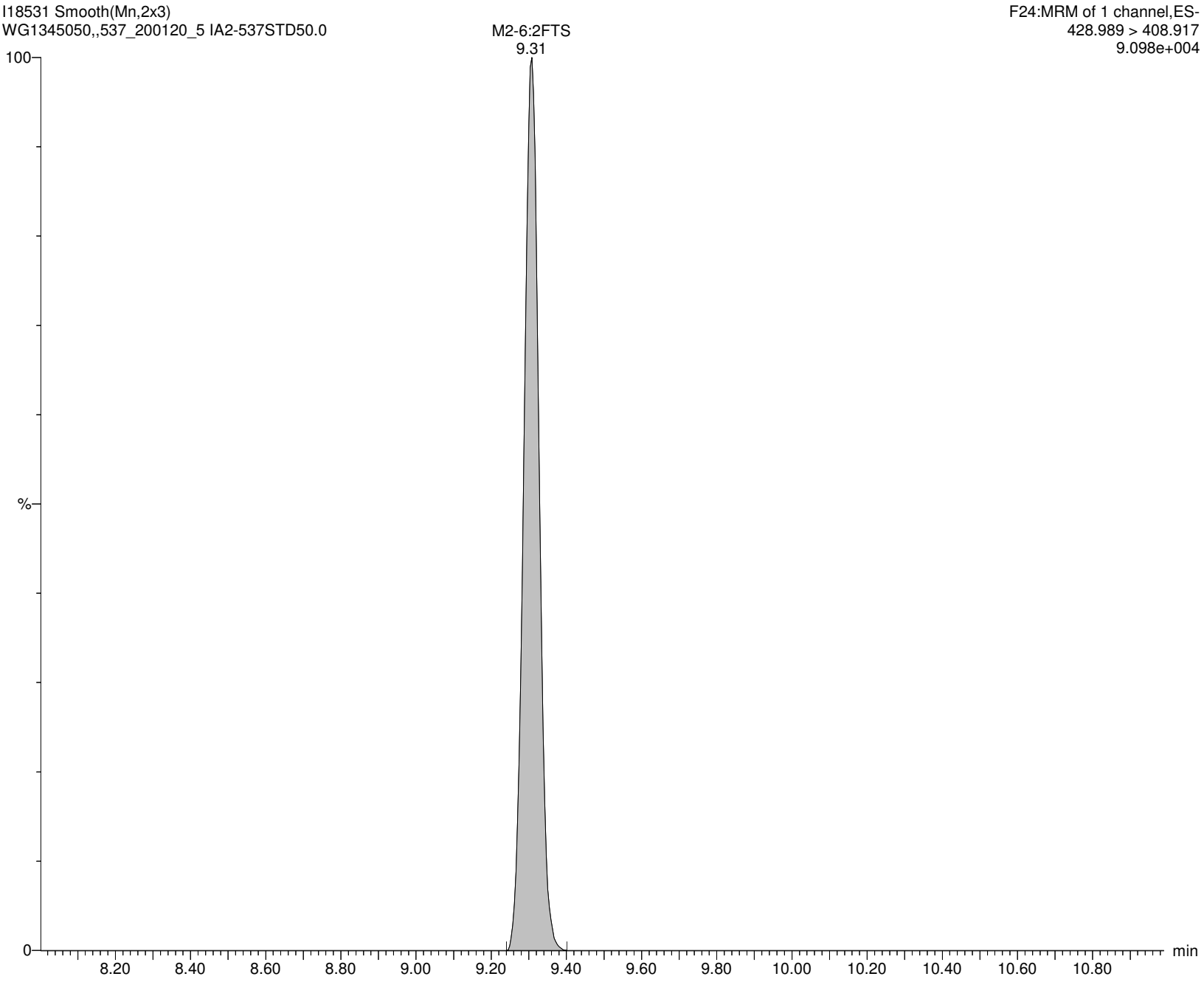

all concentration units in (ng/mL)

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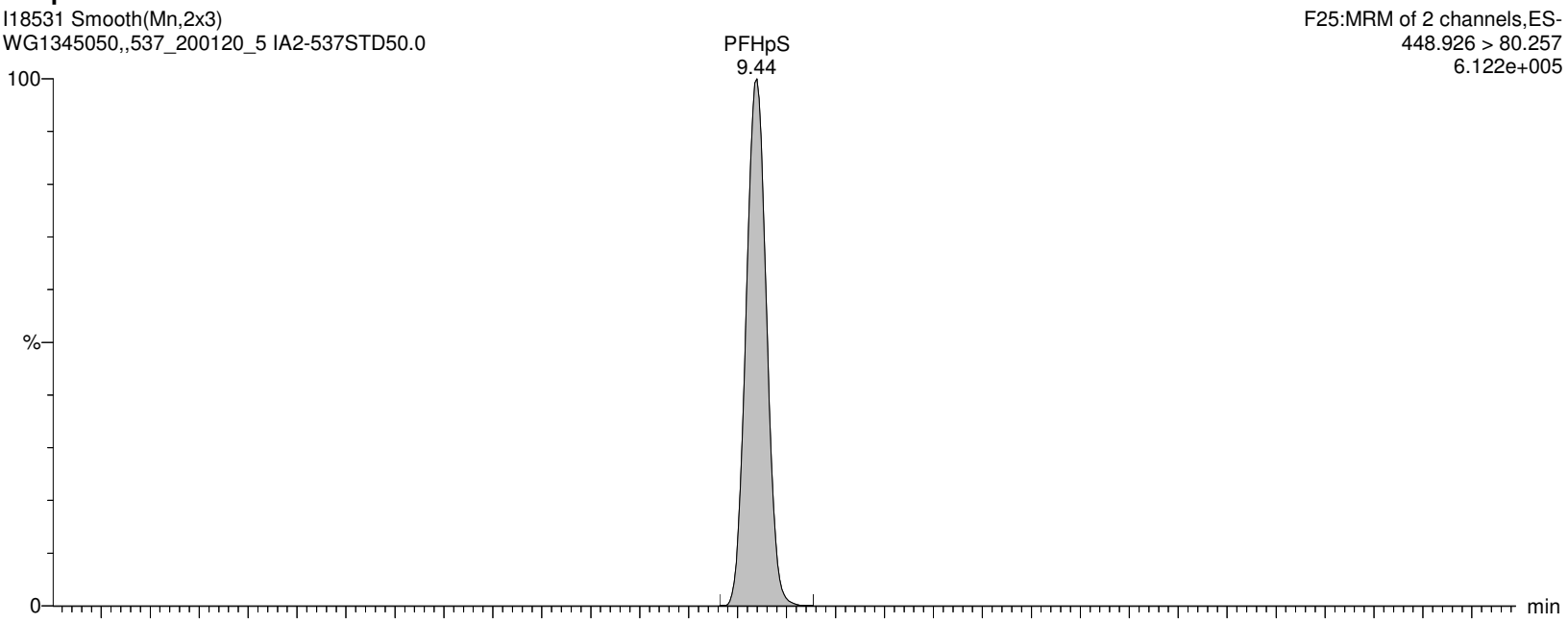

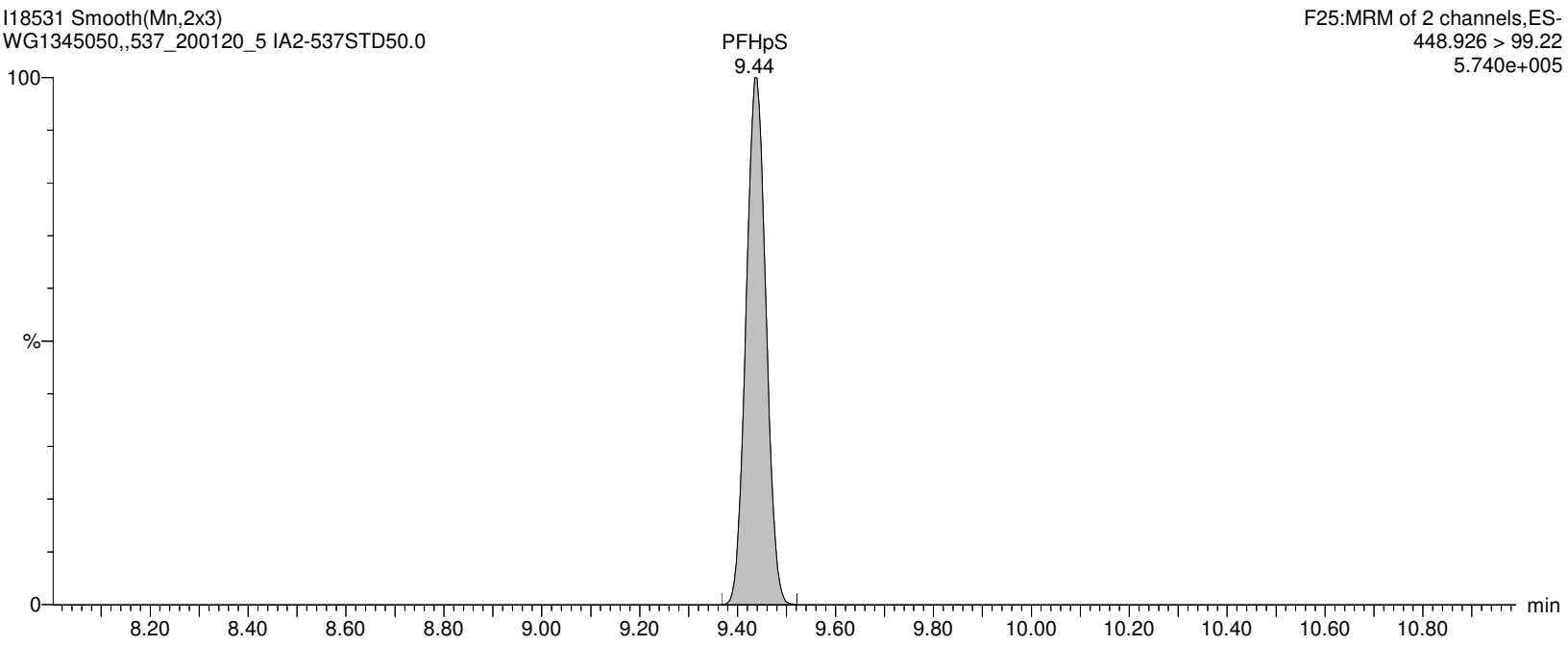

all concentration units in (ng/mL)

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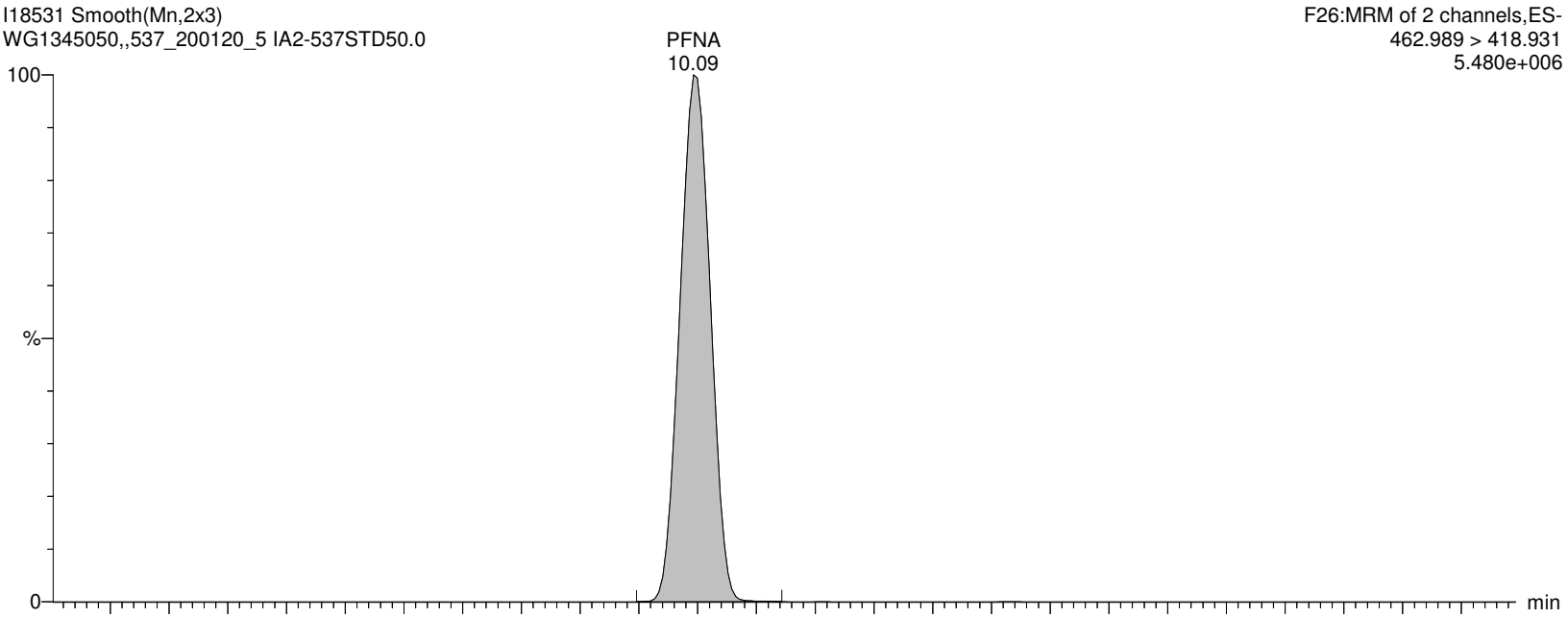

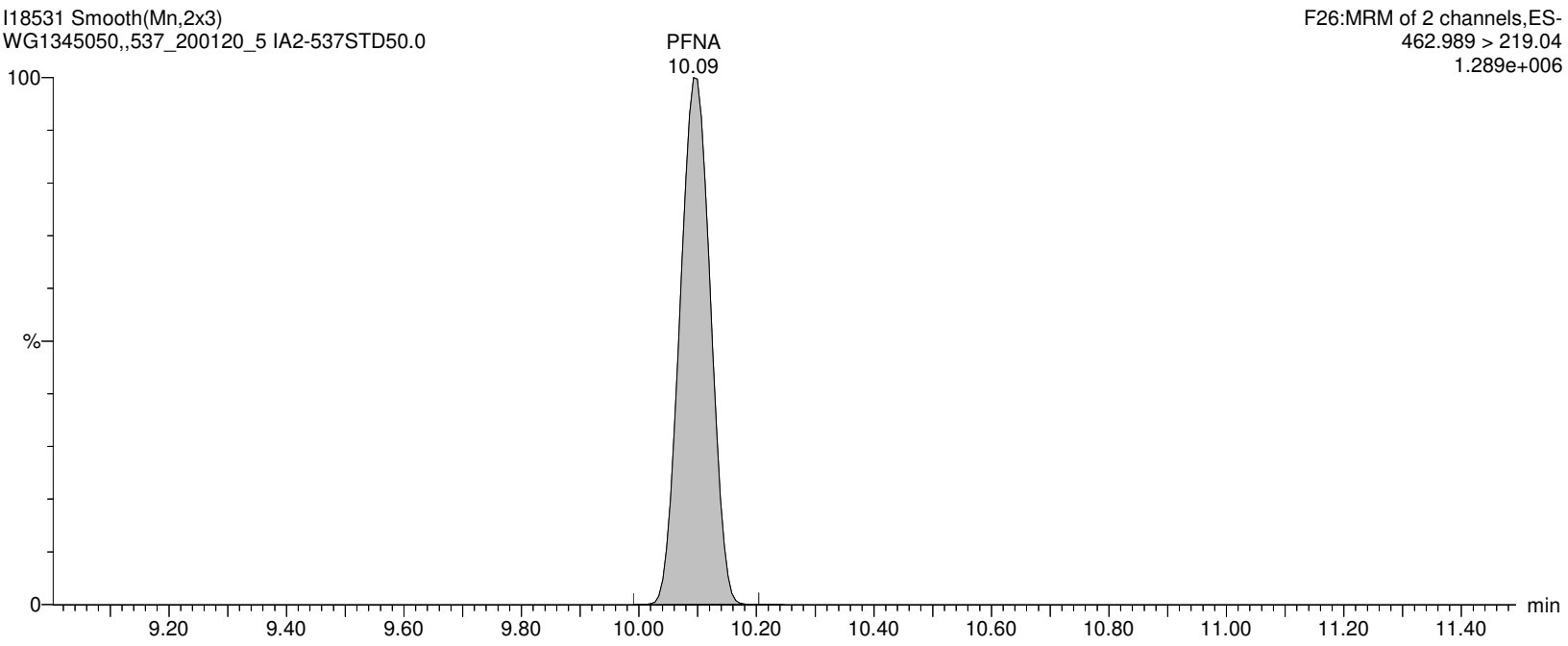

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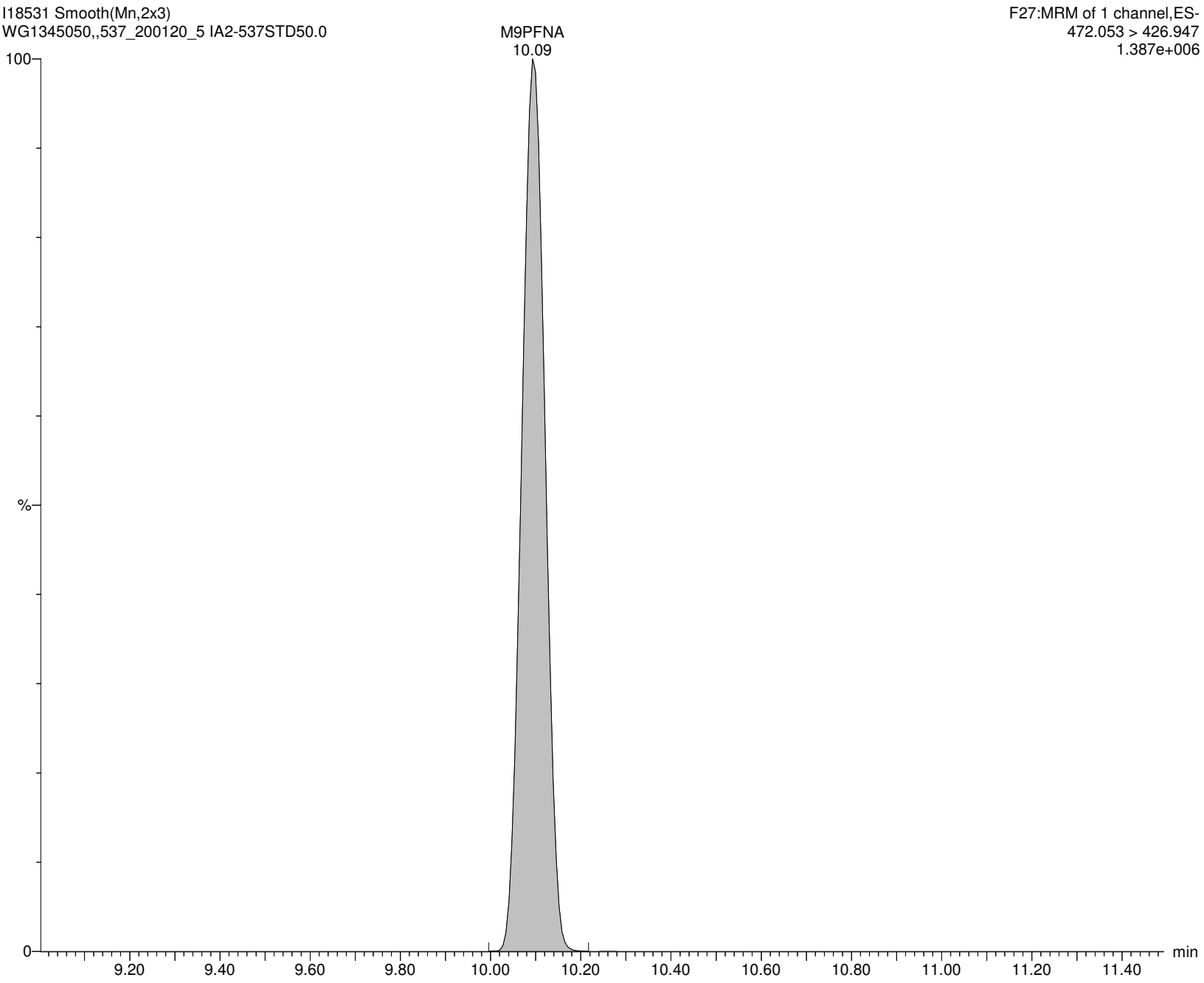

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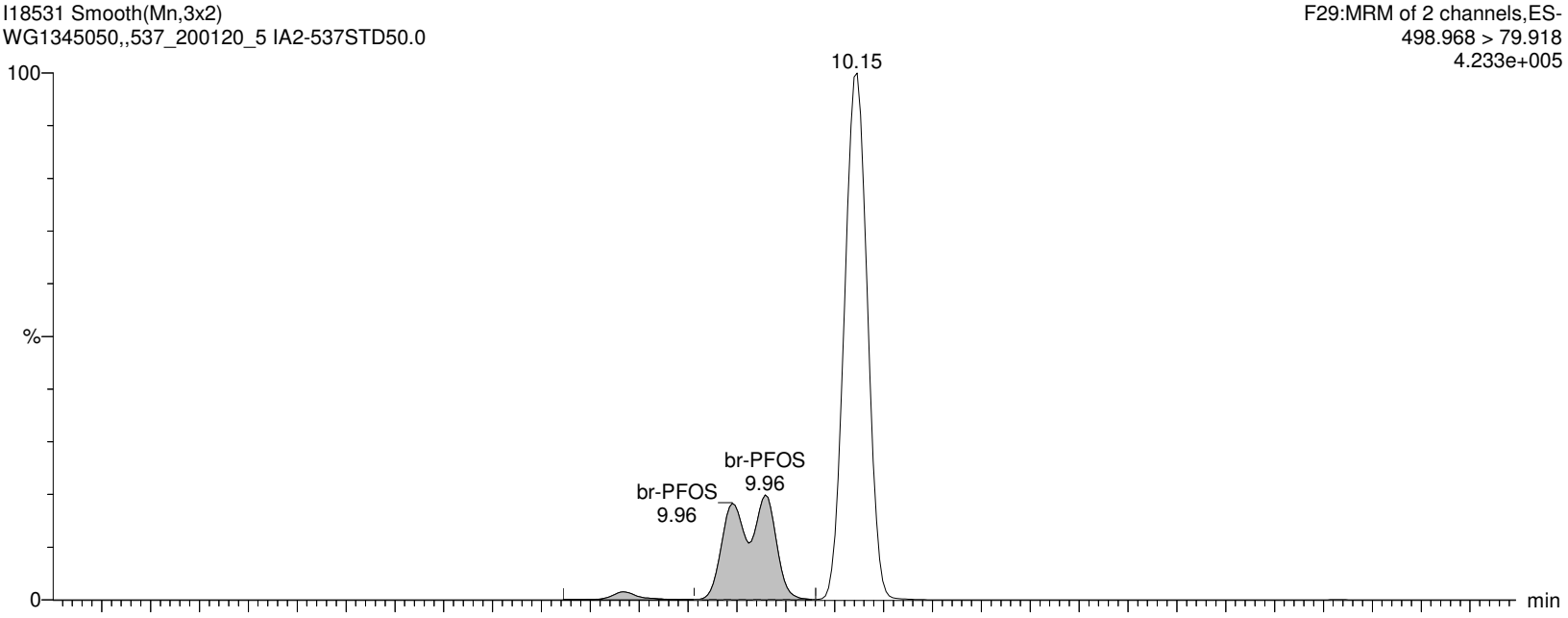

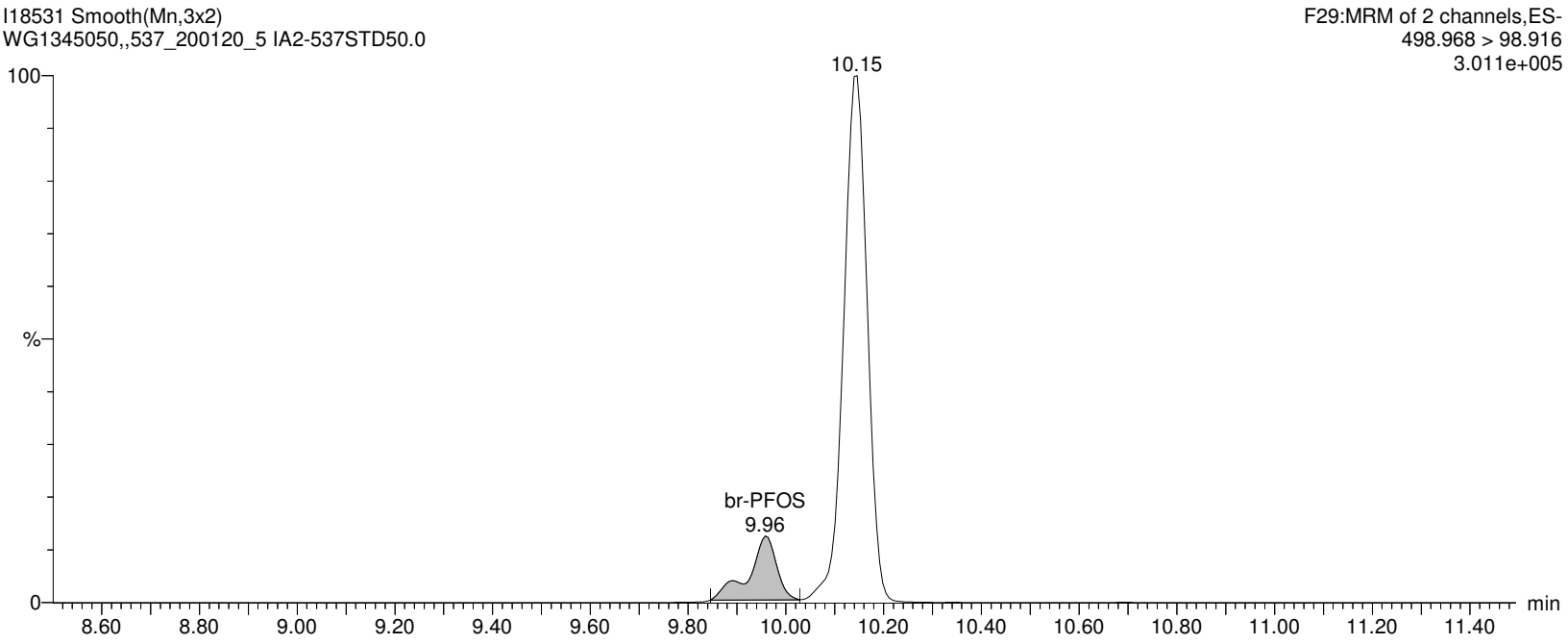

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:51 Eastern Standard Time

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ID: IA2-537STD50.0
Date: 27-Feb-2020
Time: 14:35:26
Description: WG1345050,,537_200120_5
User: LCMS01:SG
Vial: 1:A,6
Instrument: XEVO-TQSmicro#QEA0276
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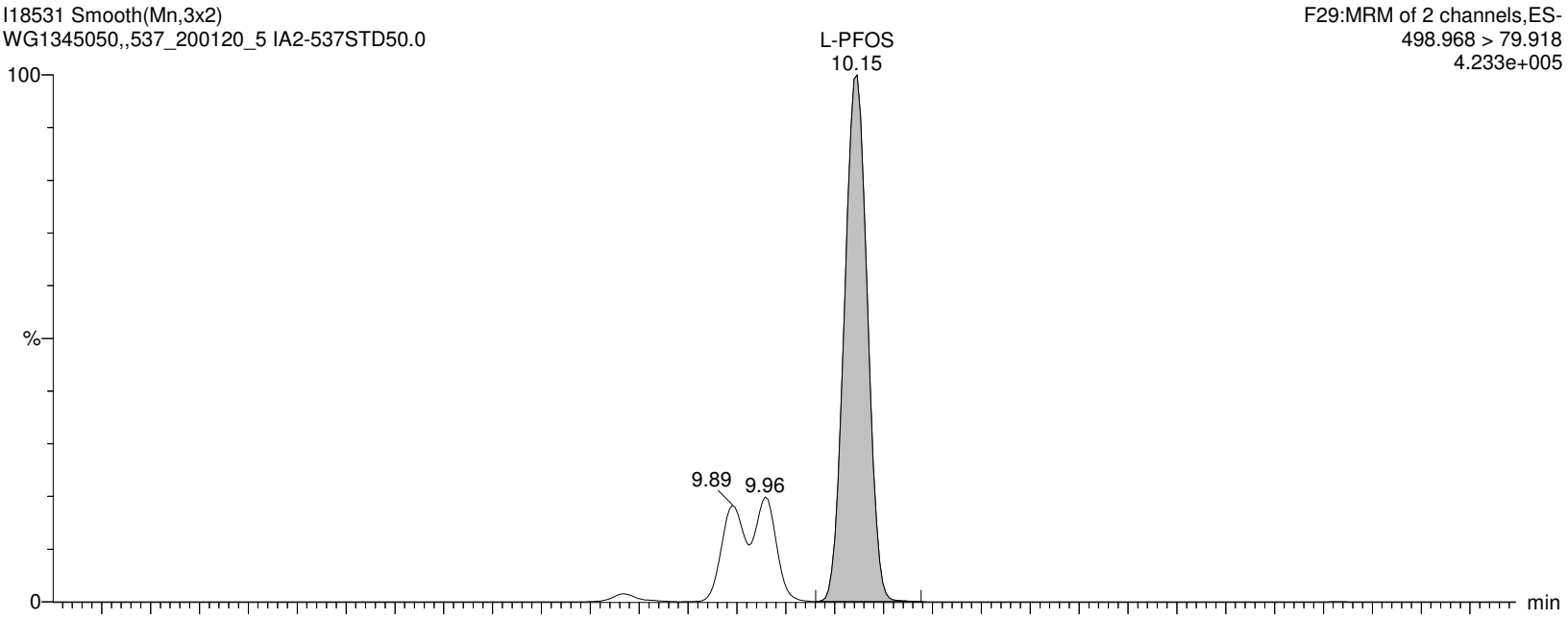

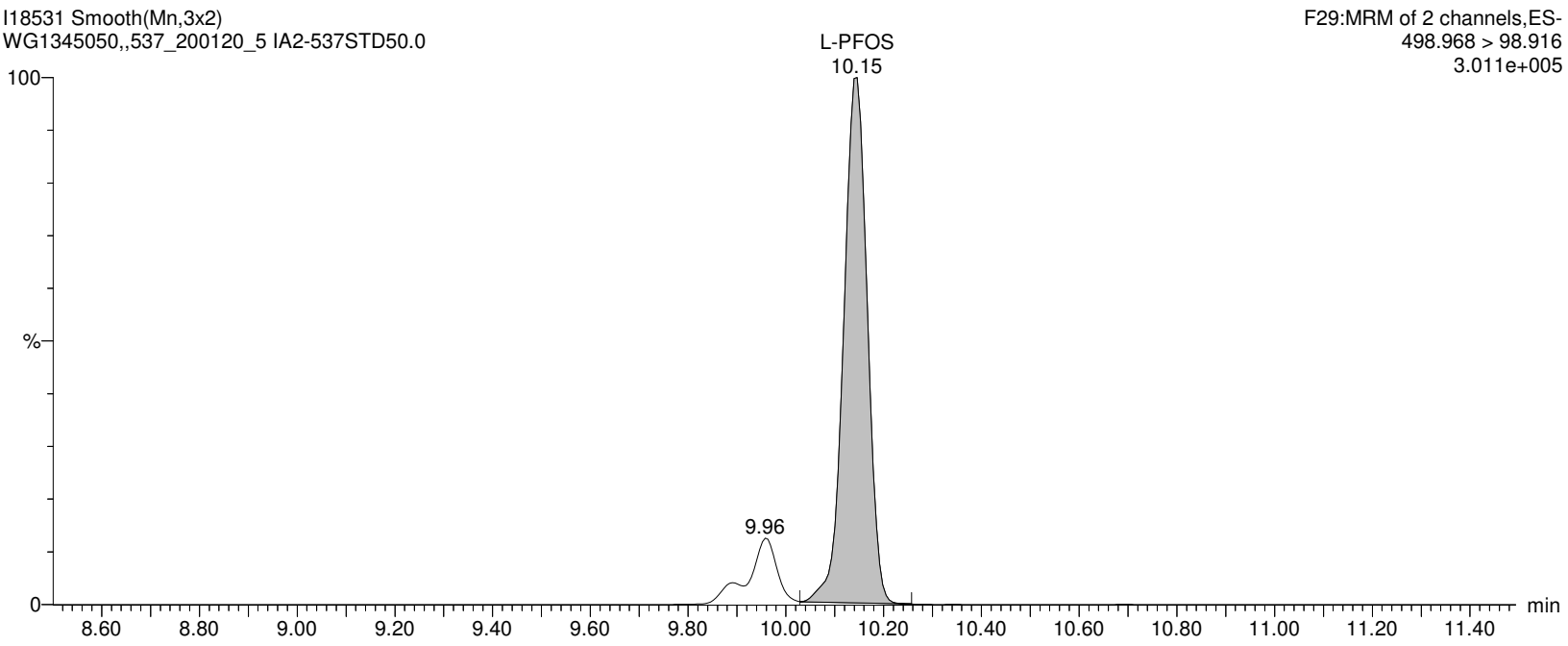

all concentration units in (ng/mL)

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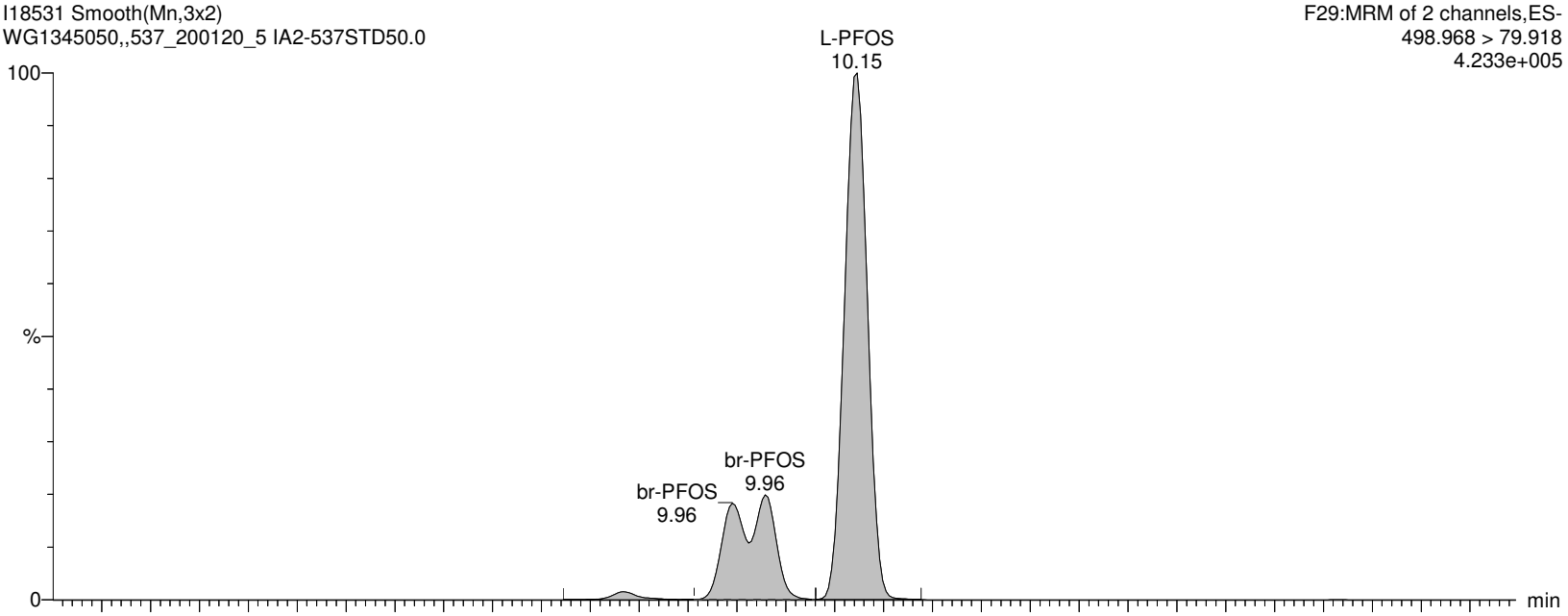

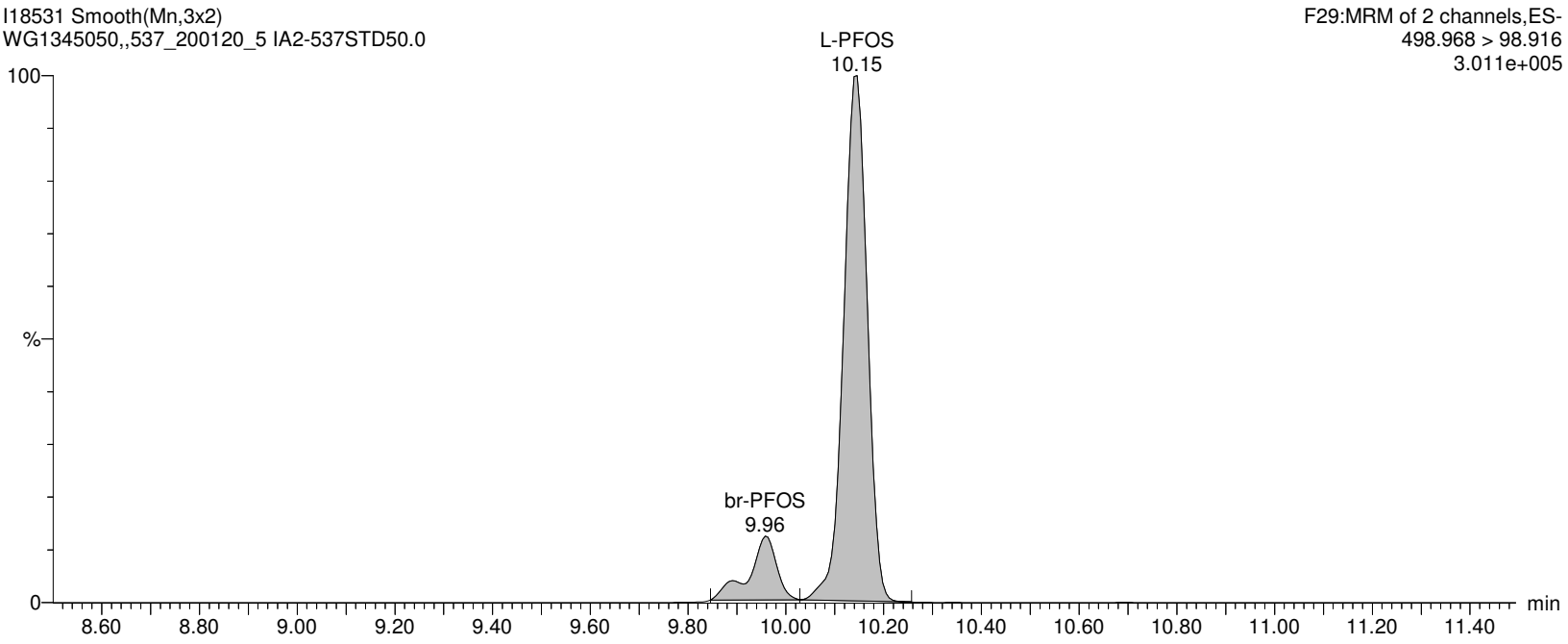

all concentration units in (ng/mL)

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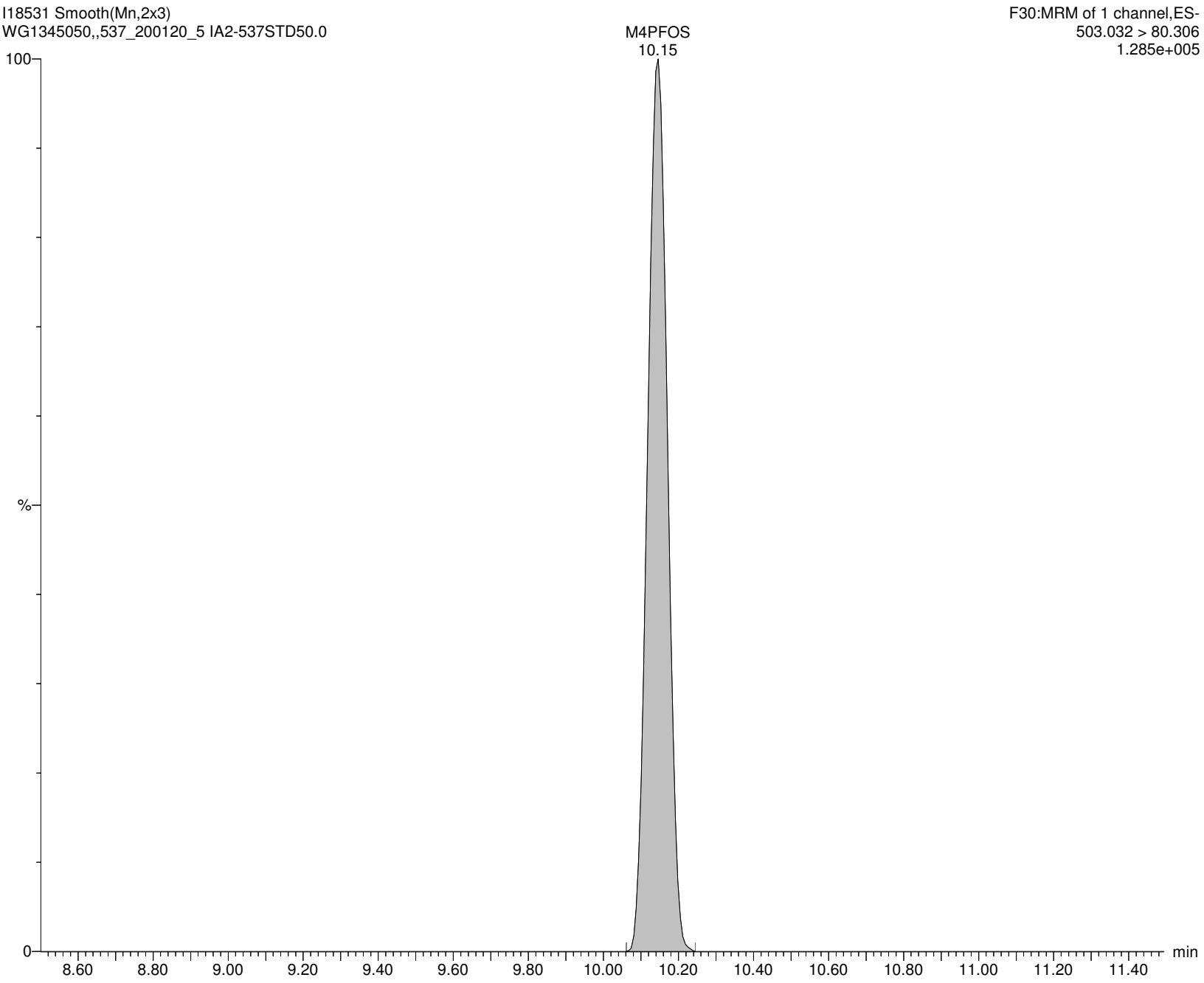

all concentration units in (ng/mL)

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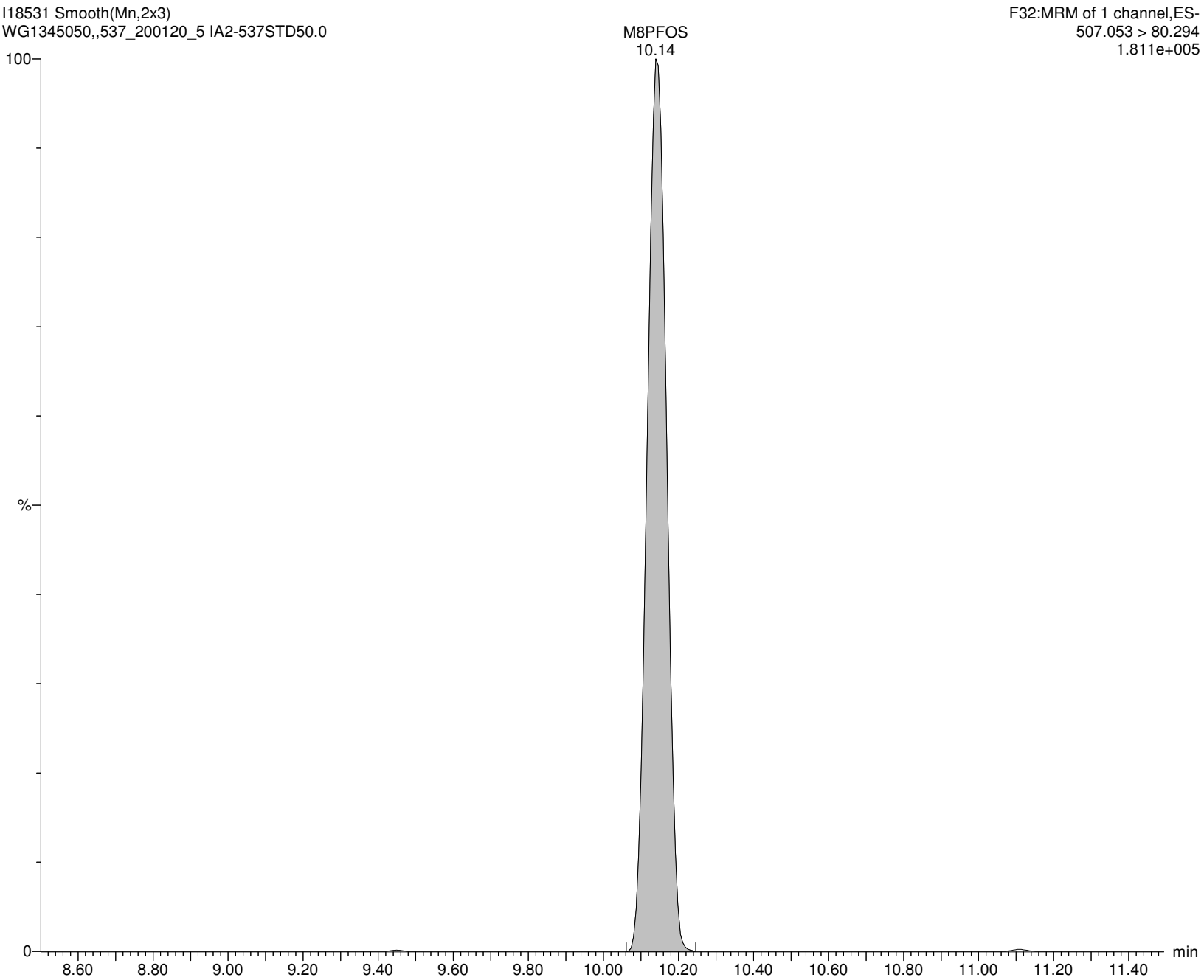

all concentration units in (ng/mL)

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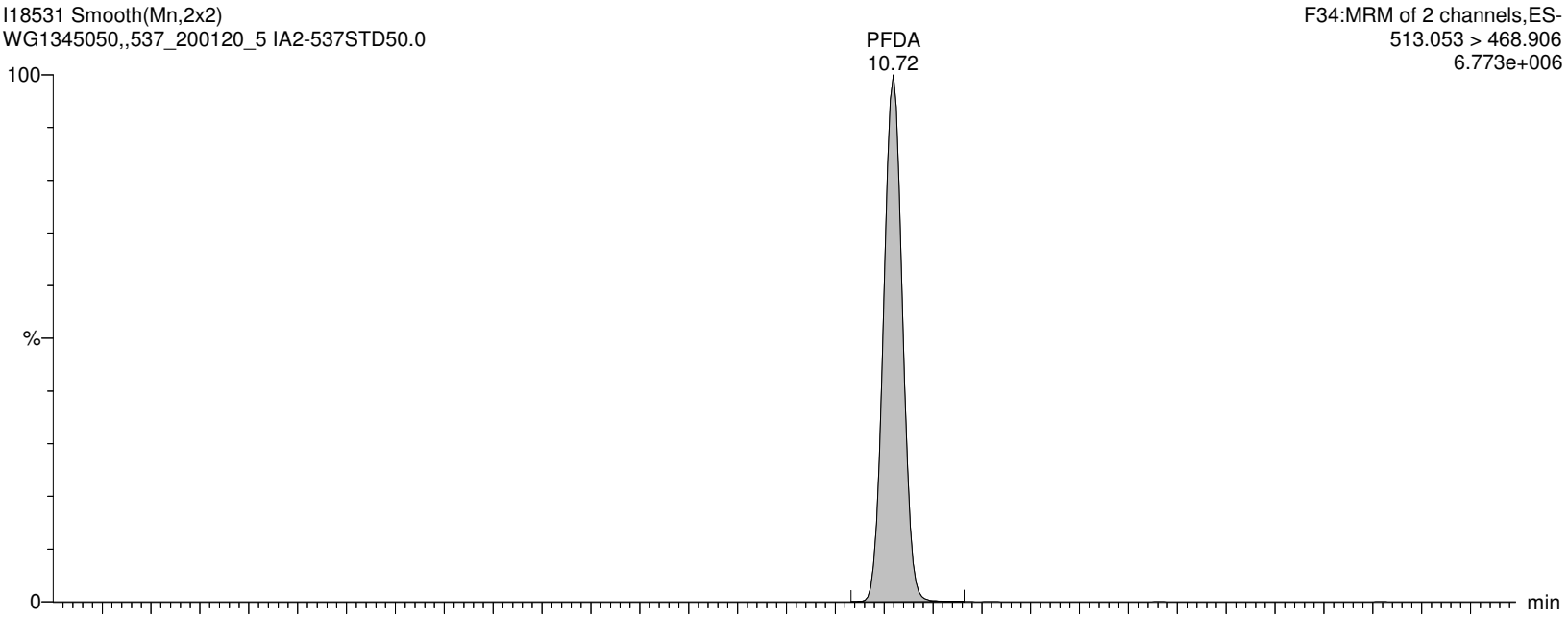

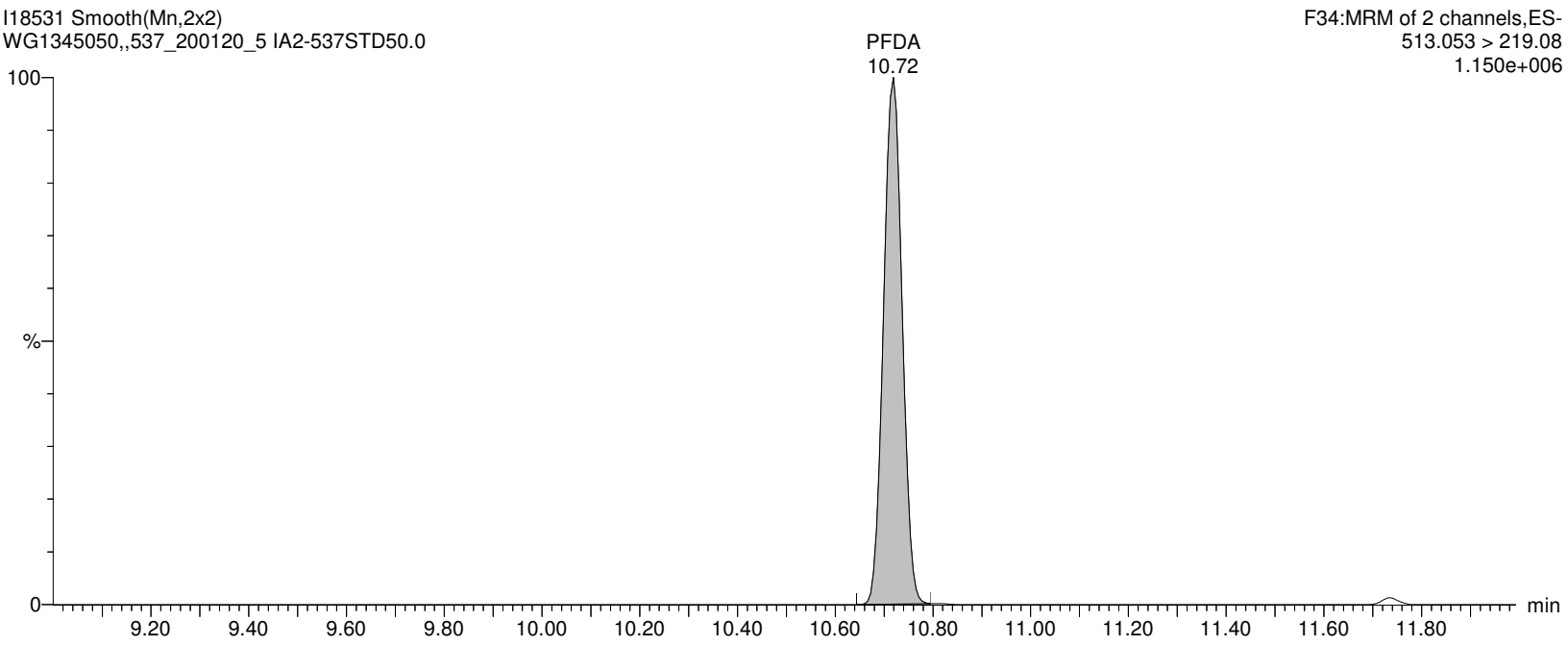

all concentration units in (ng/mL)

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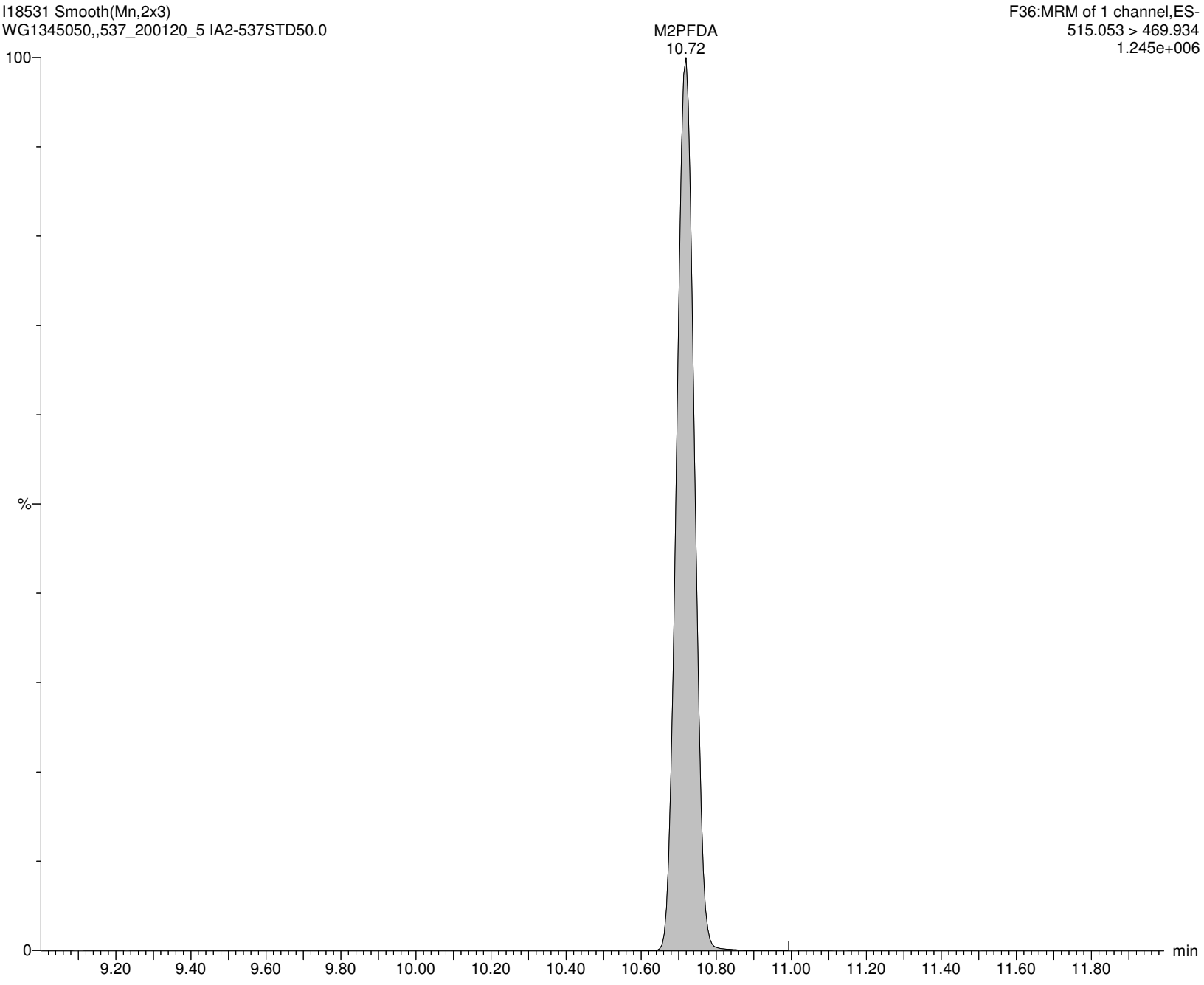

all concentration units in (ng/mL)

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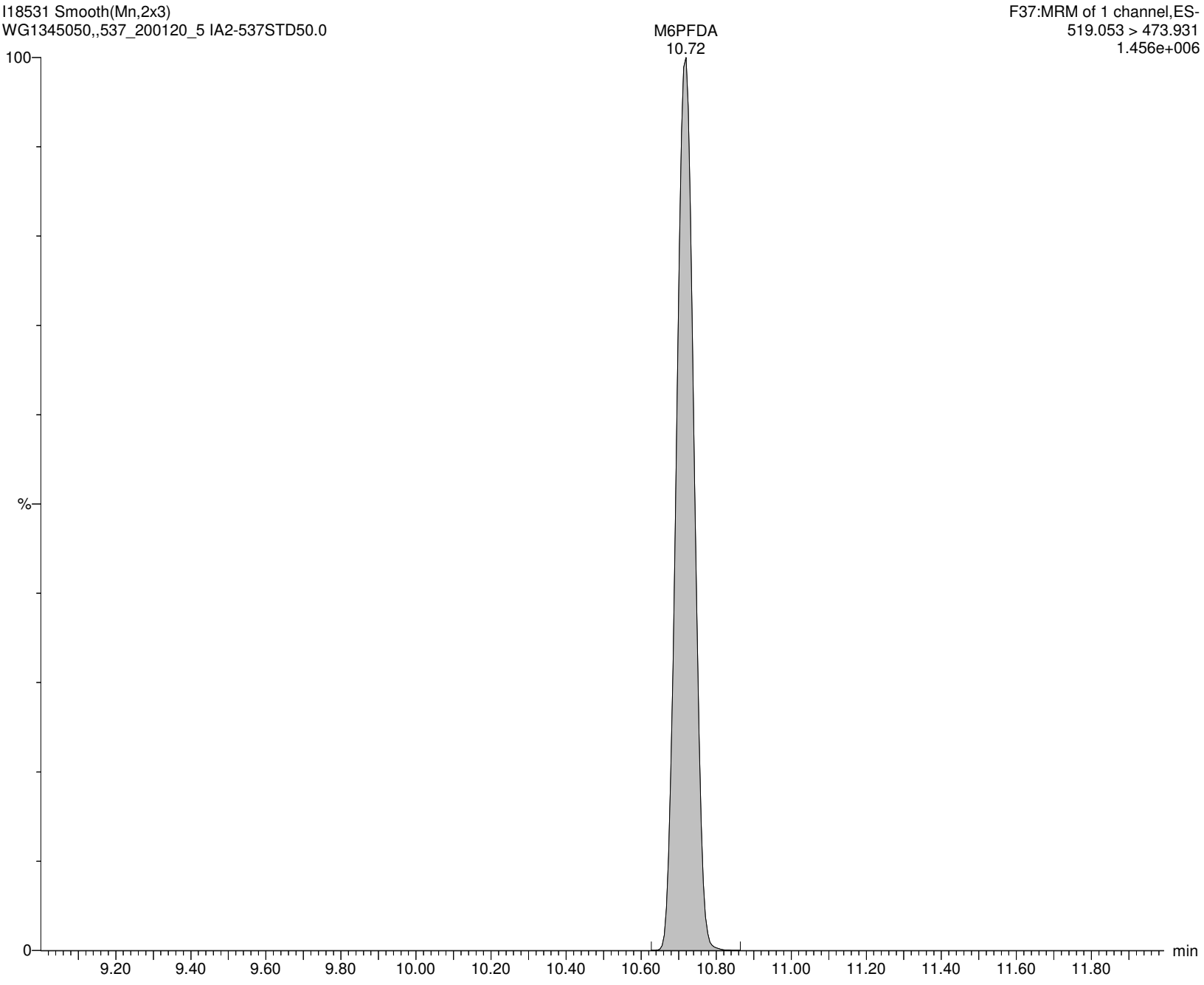

all concentration units in (ng/mL)

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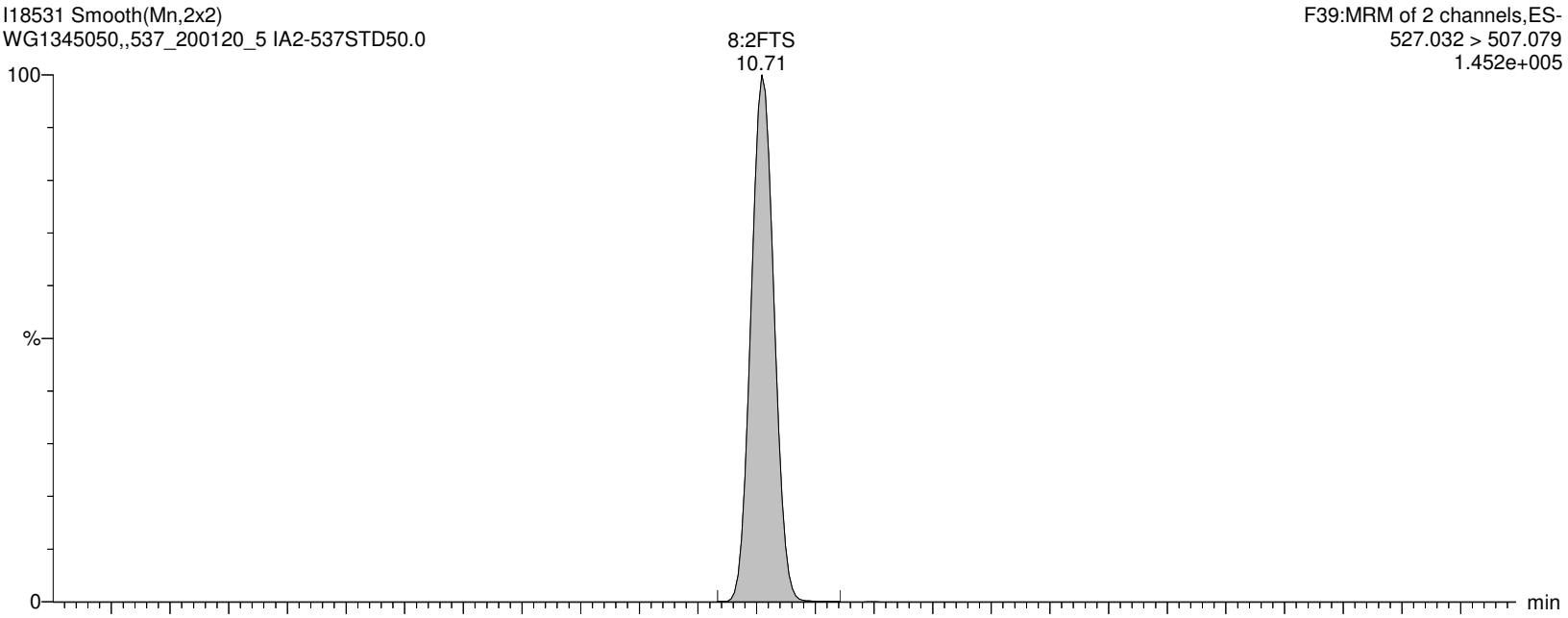

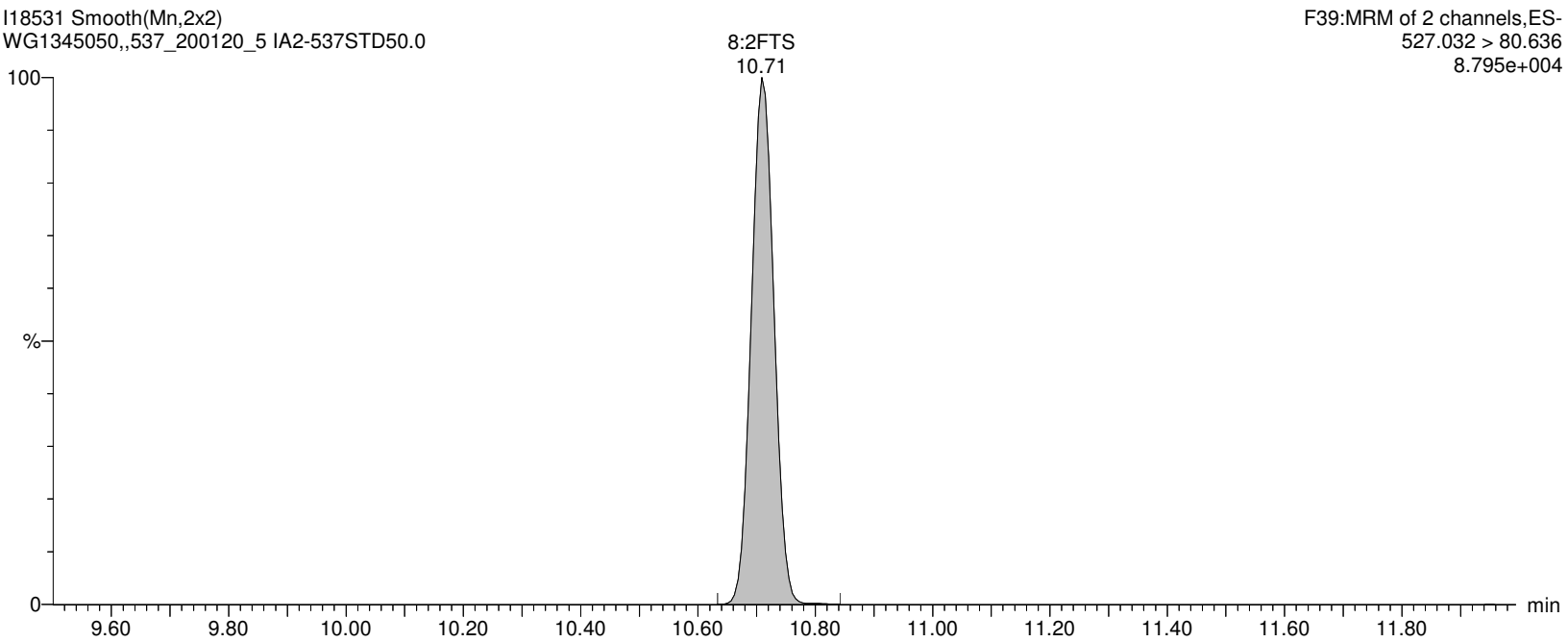

all concentration units in (ng/mL)

Alpha Analytical Inc.
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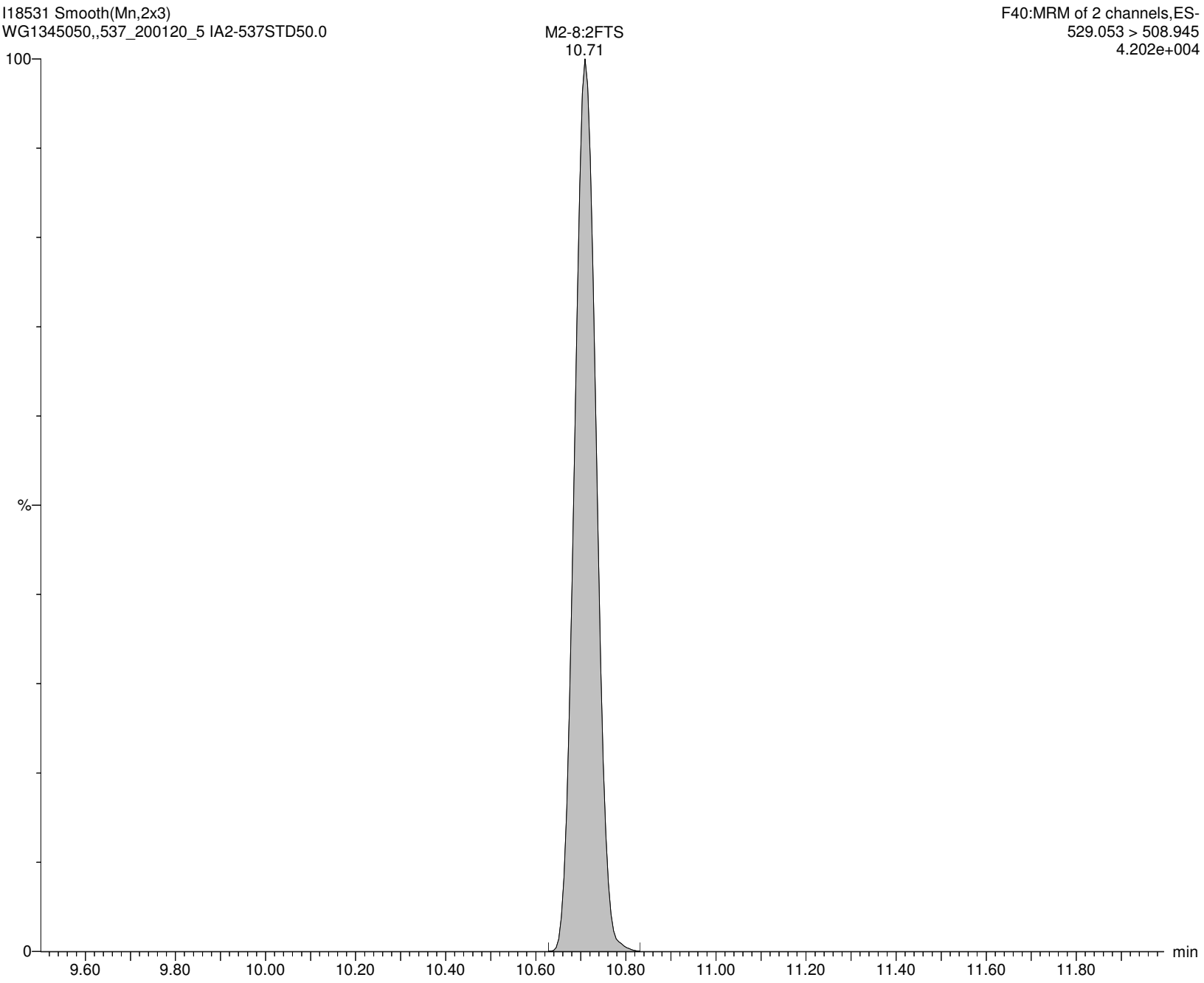

all concentration units in (ng/mL)

Alpha Analytical Inc.
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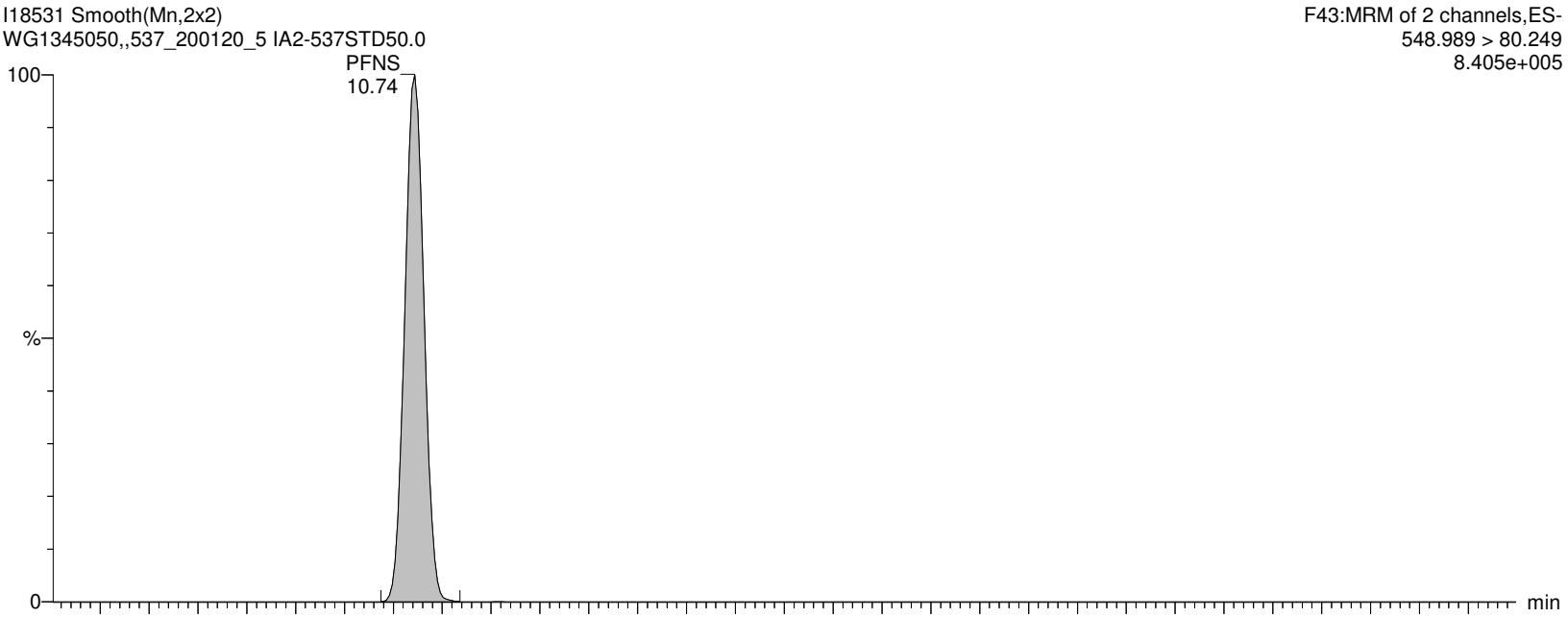

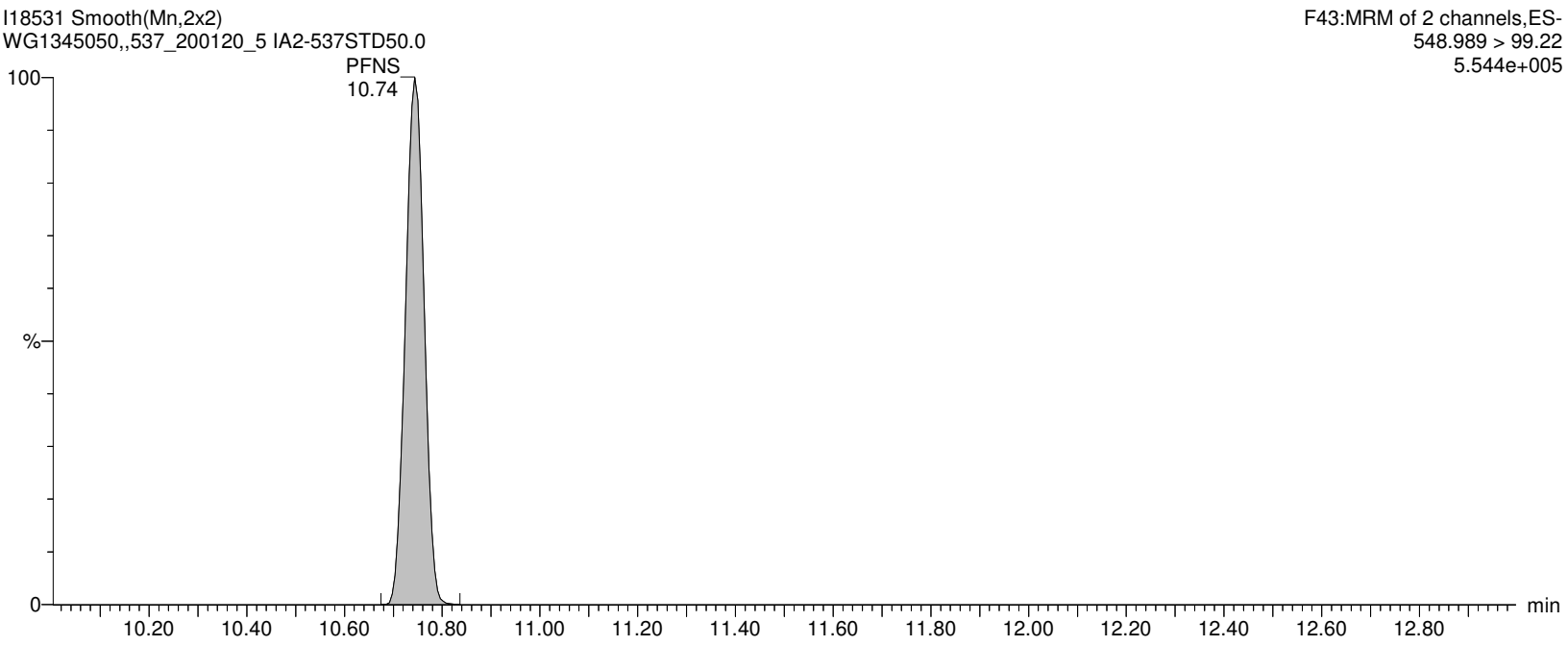

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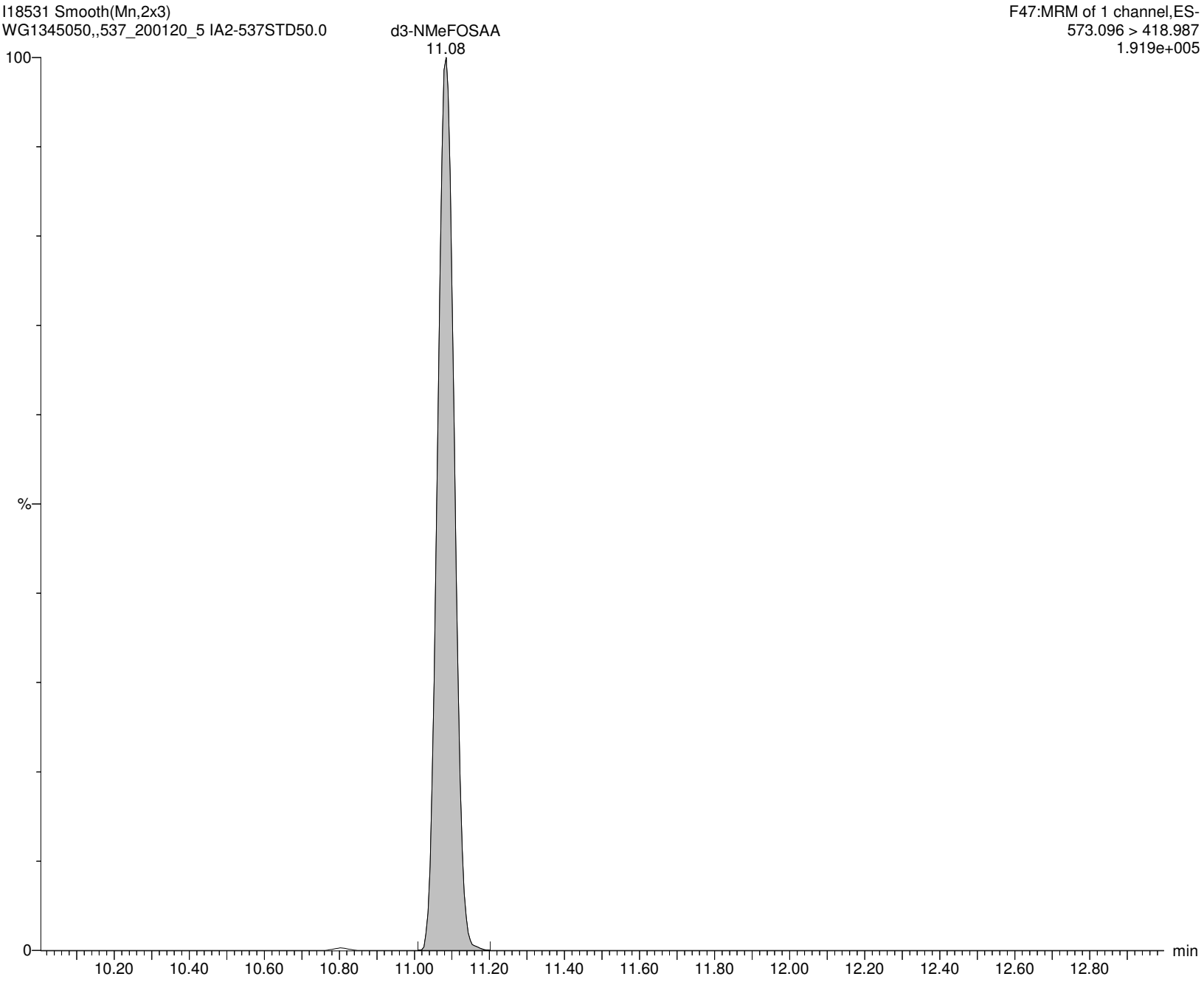

all concentration units in (ng/mL)

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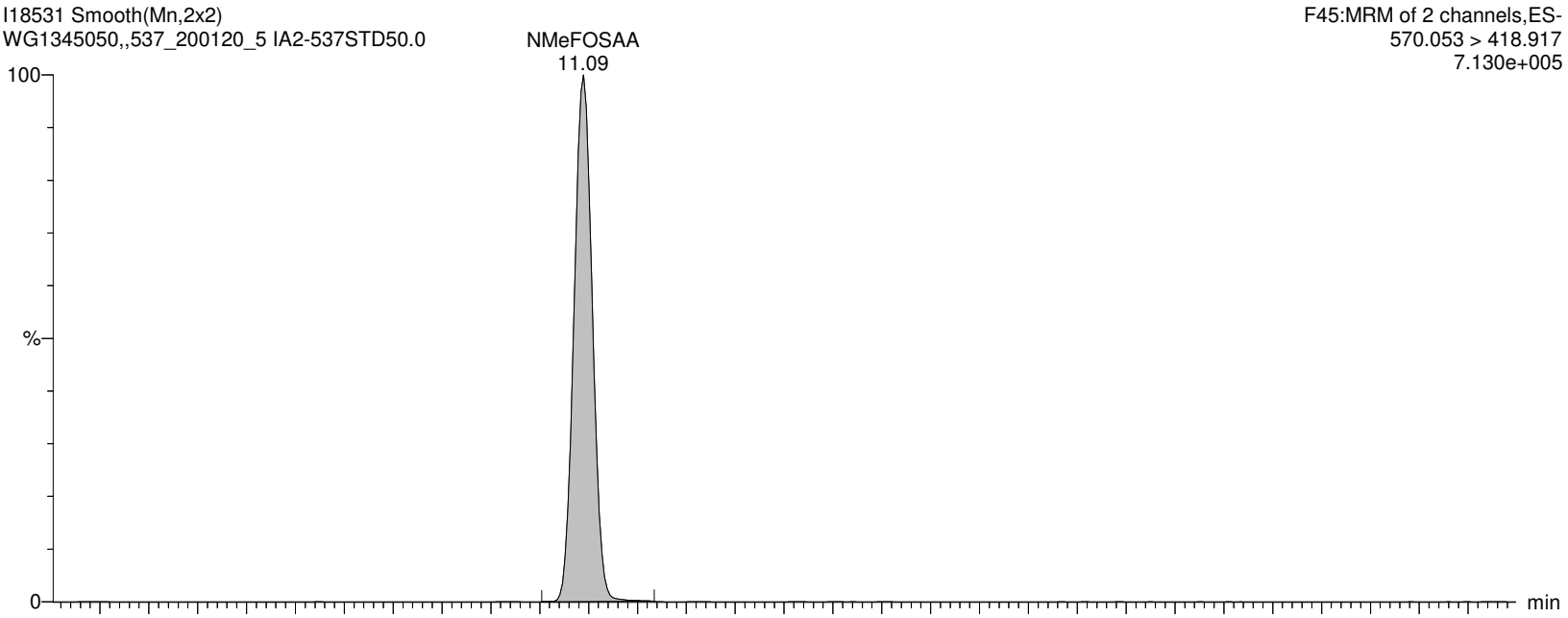

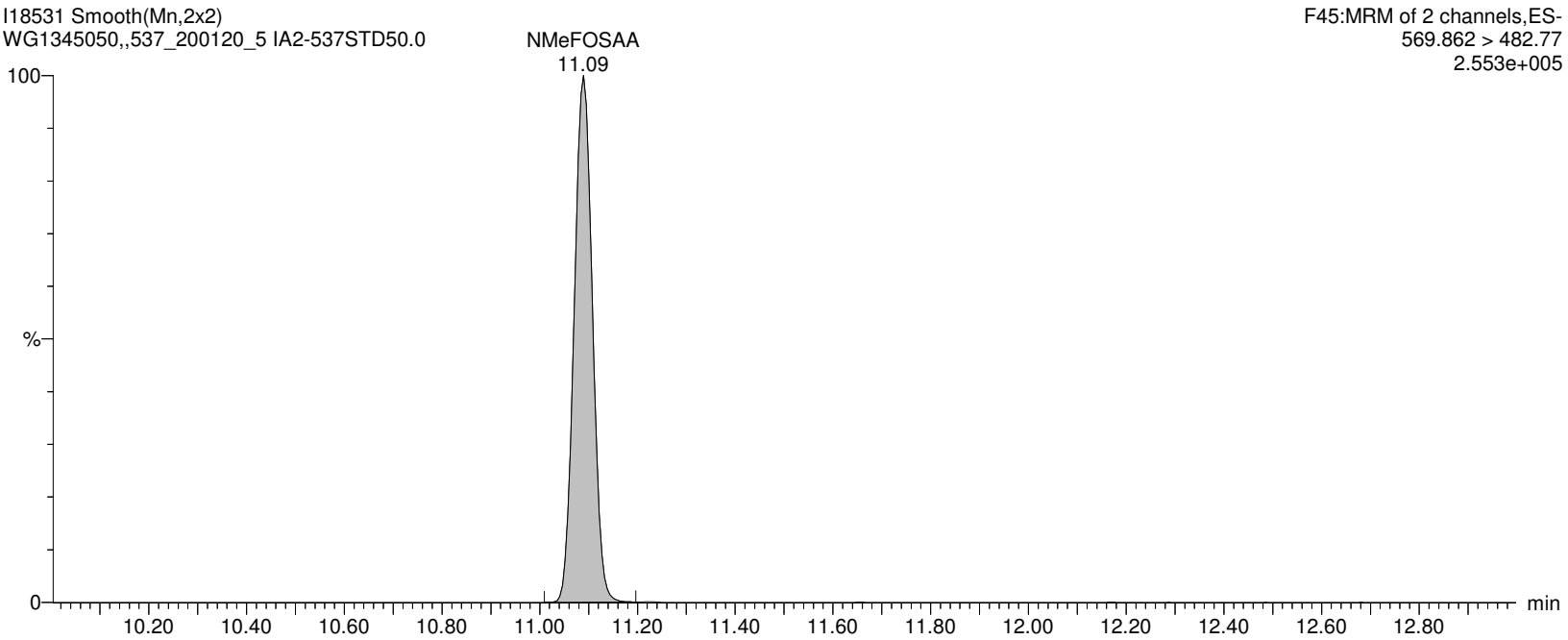

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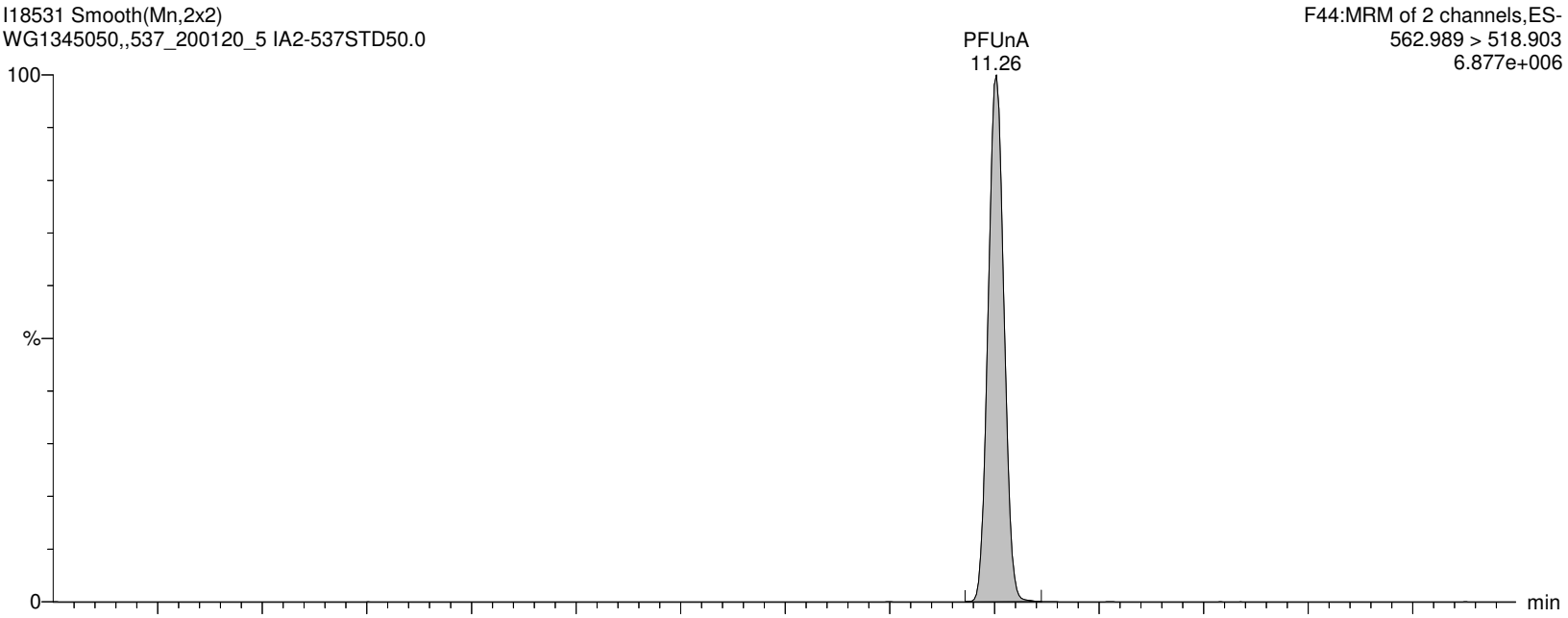

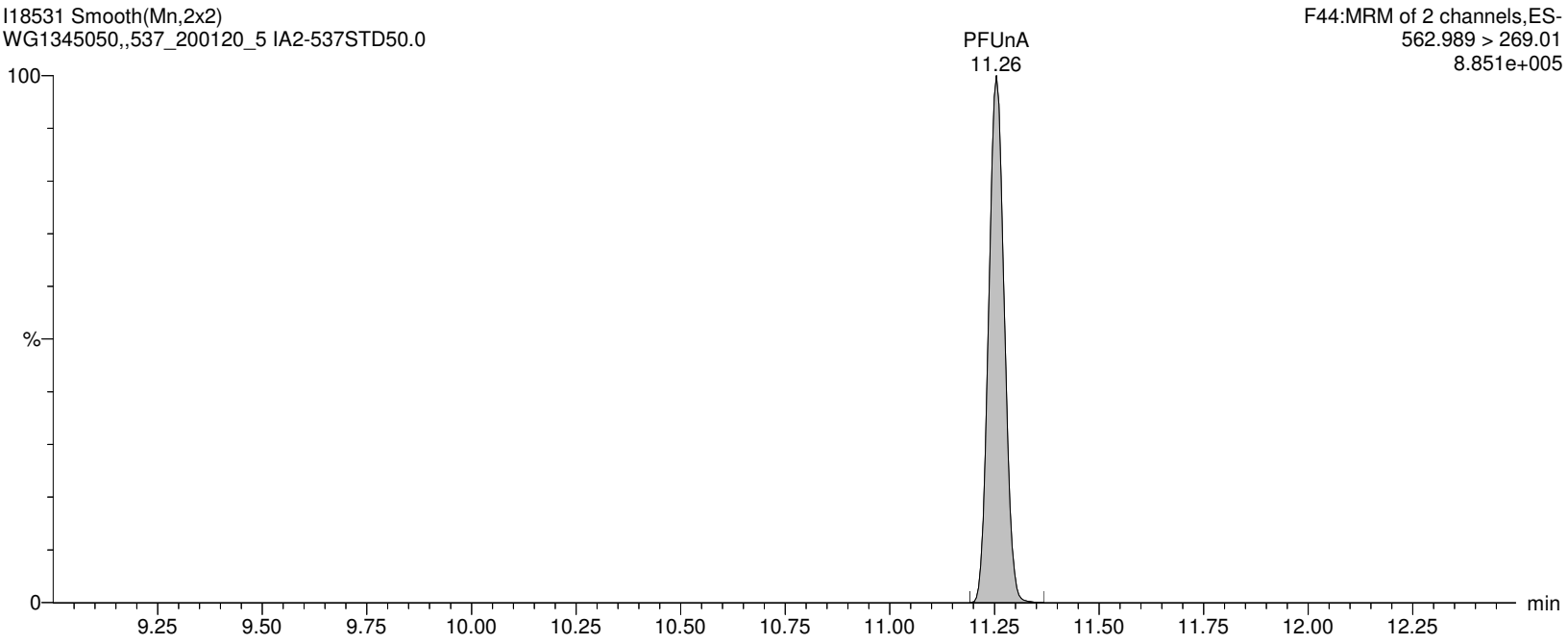

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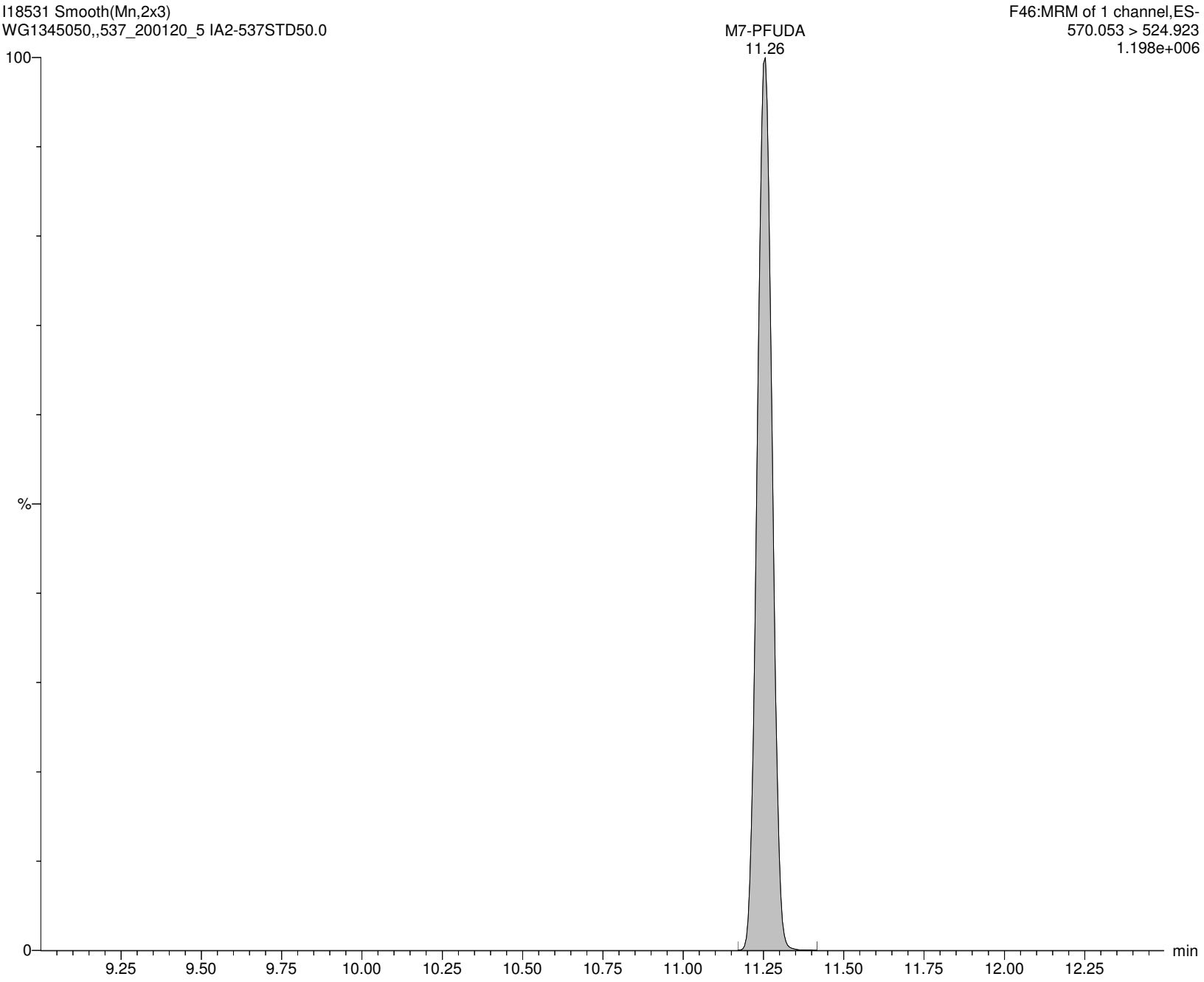

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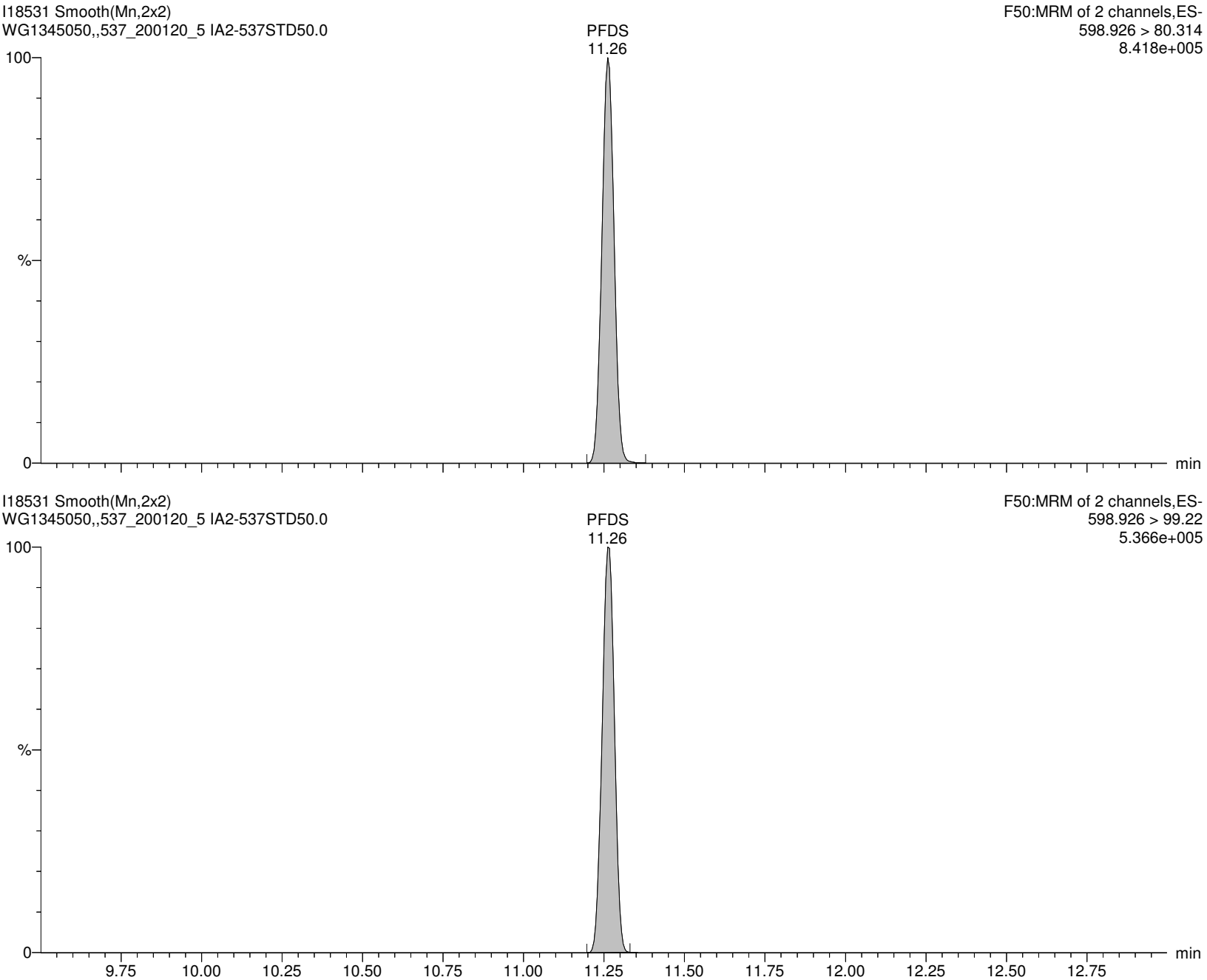

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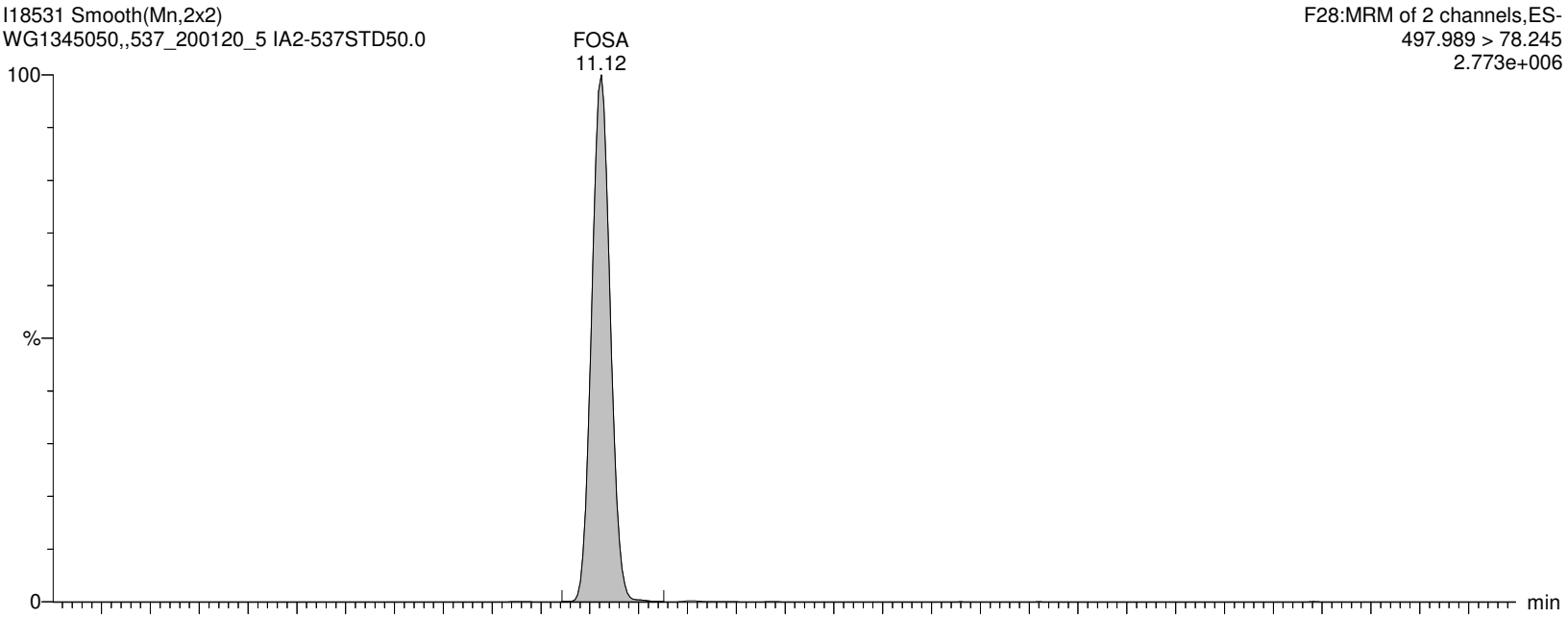

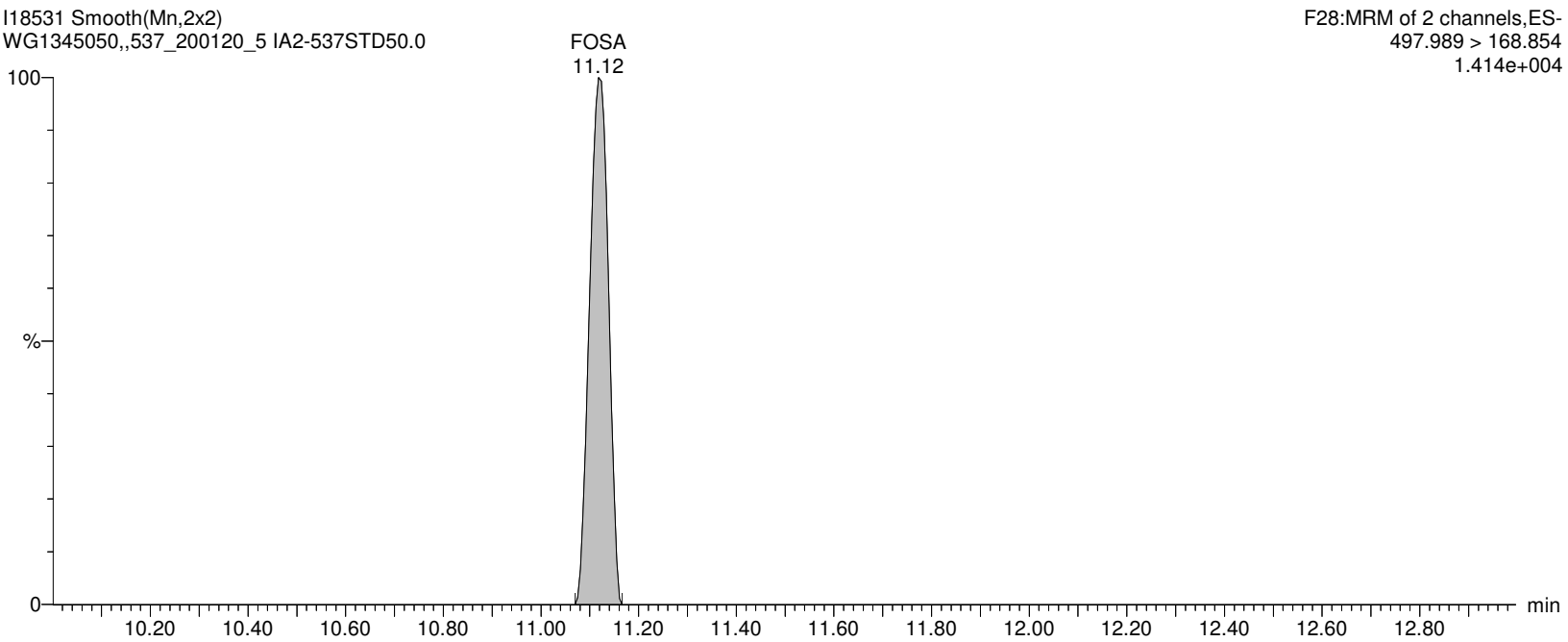

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:51 Eastern Standard Time

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Date: 27-Feb-2020
Time: 14:35:26
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User: LCMS01:SG
Vial: 1:A,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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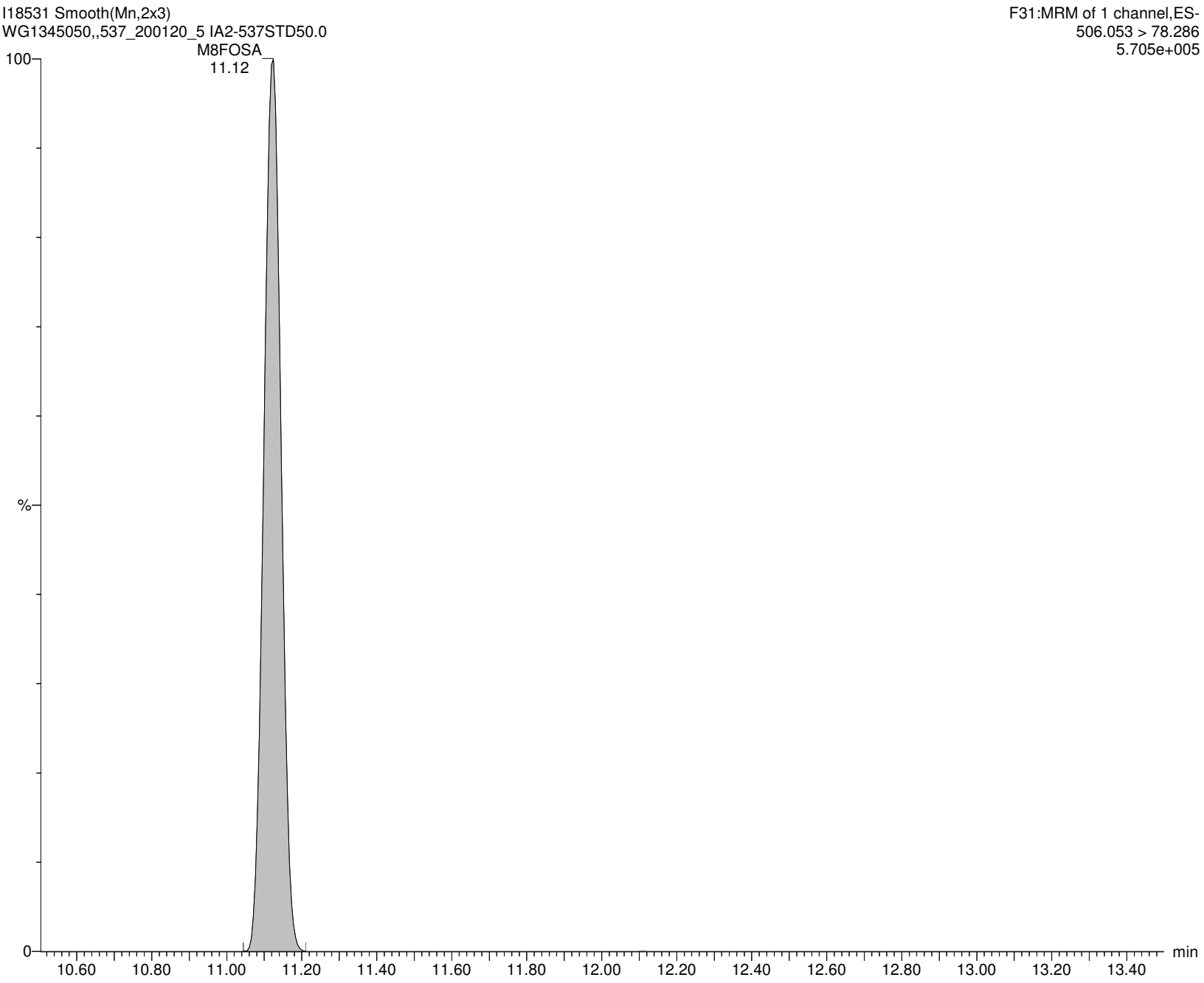

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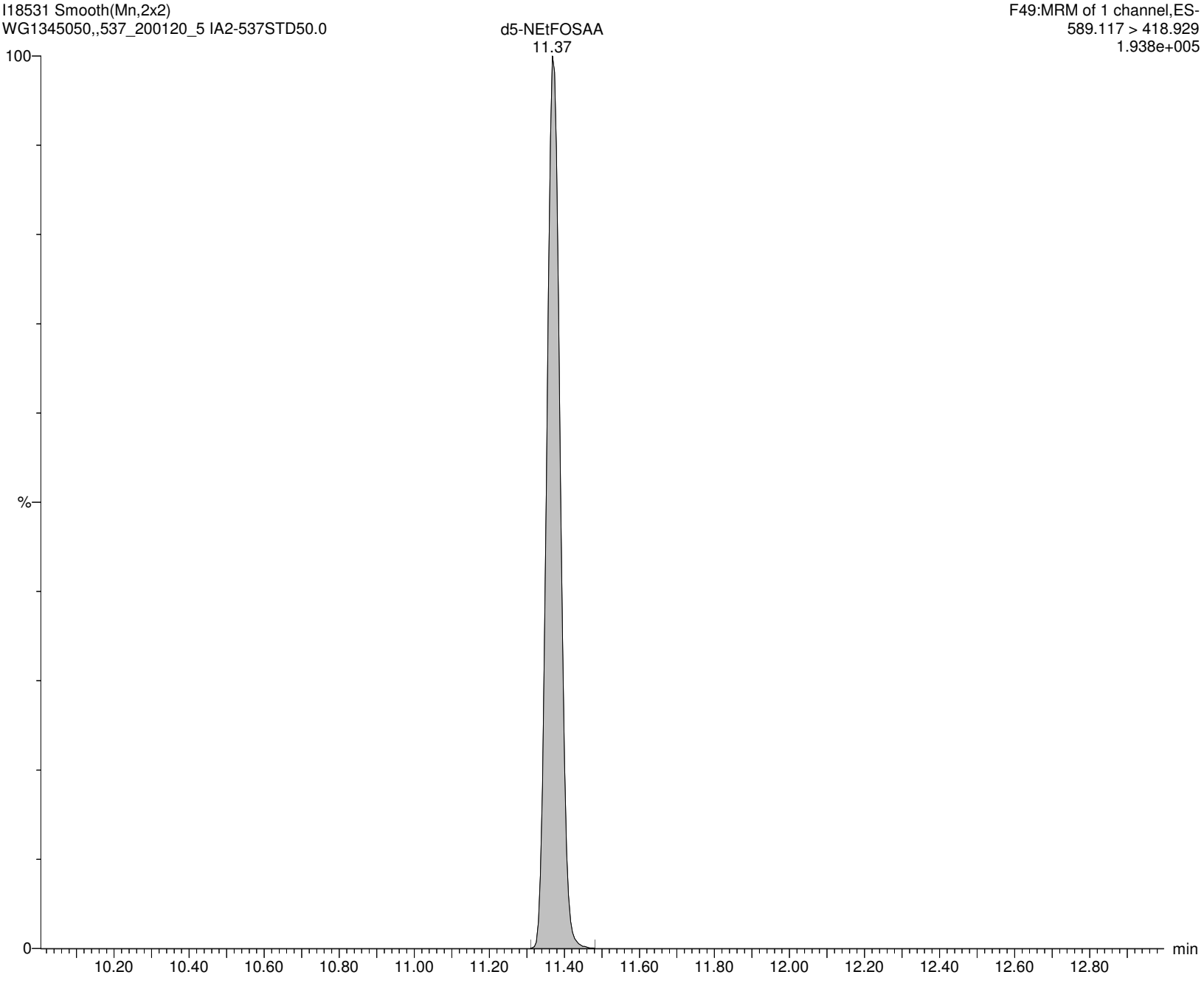

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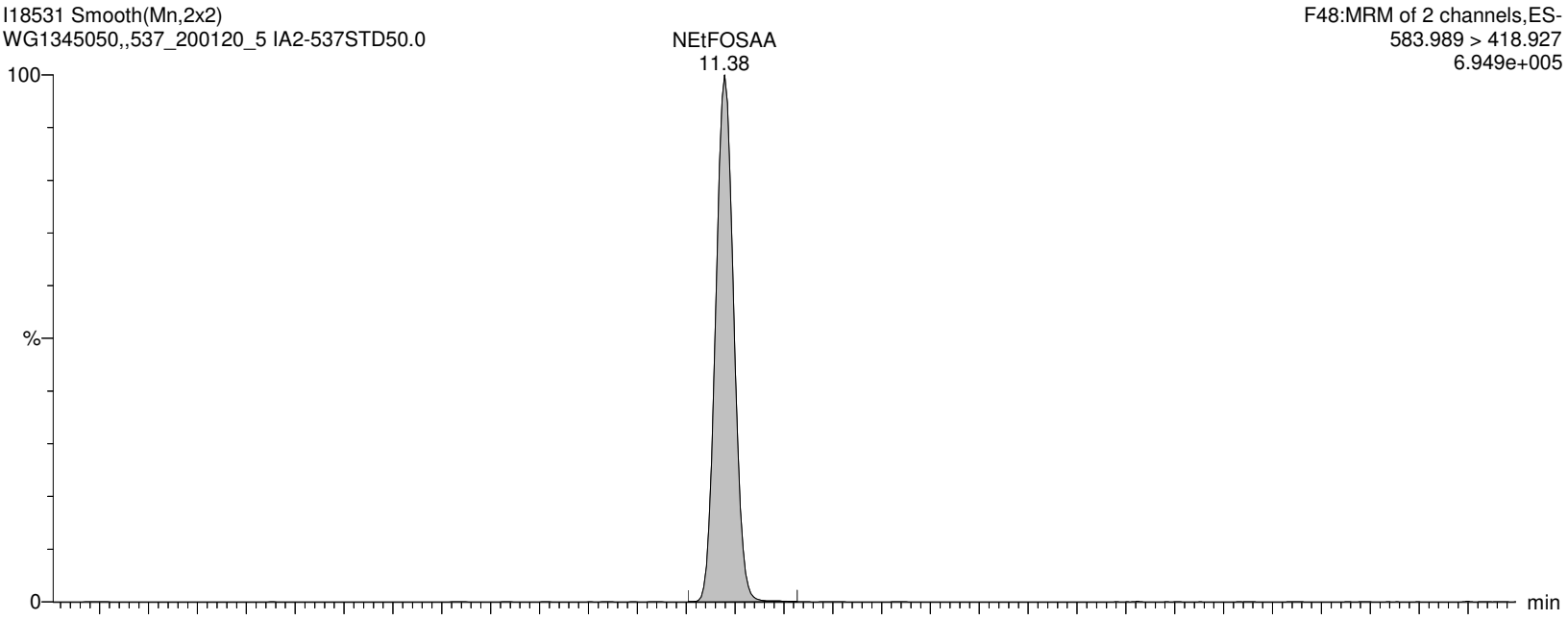

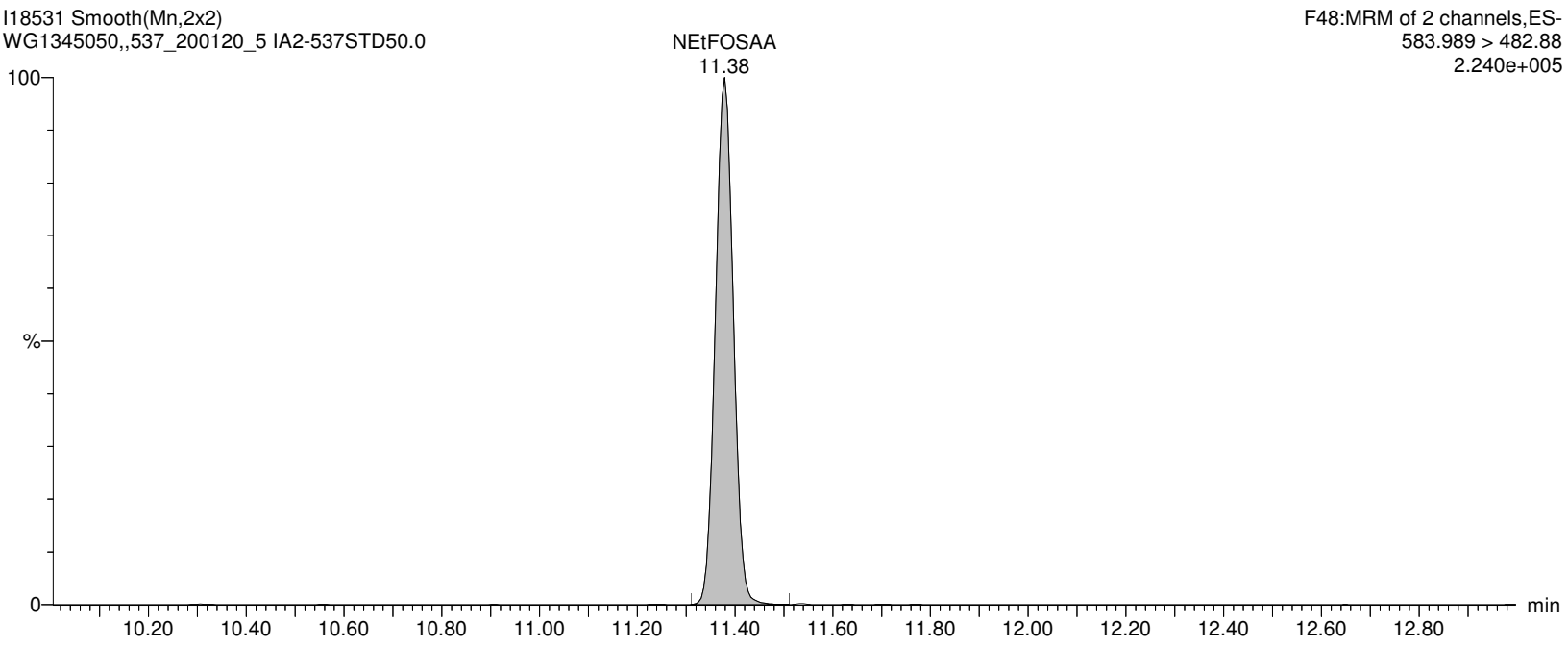

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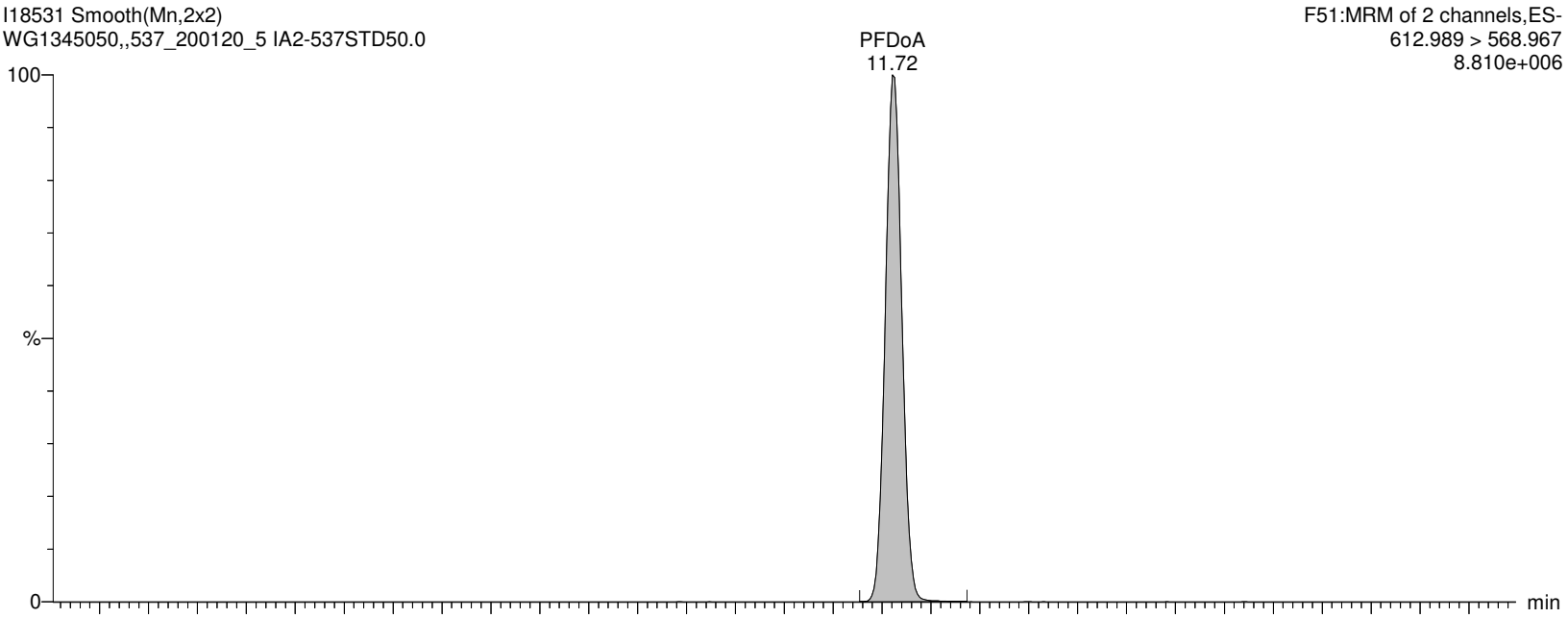

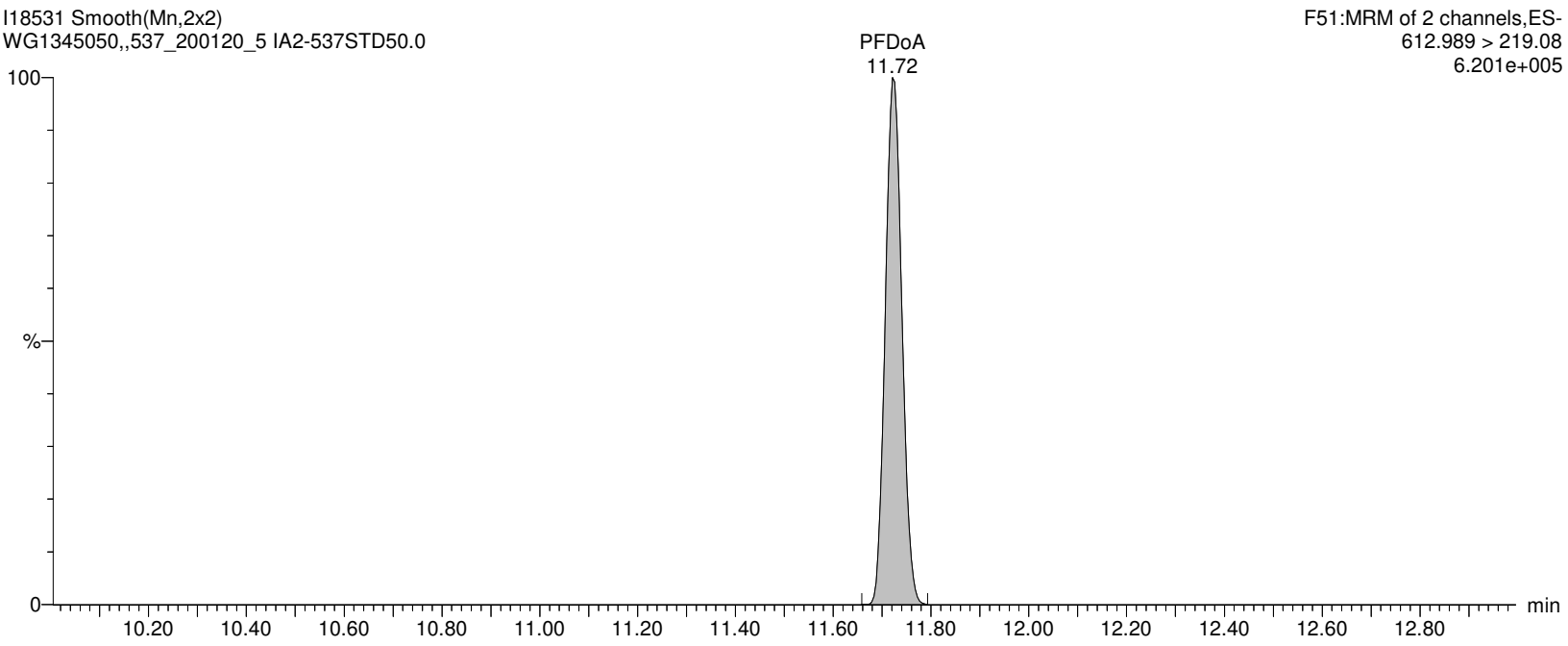

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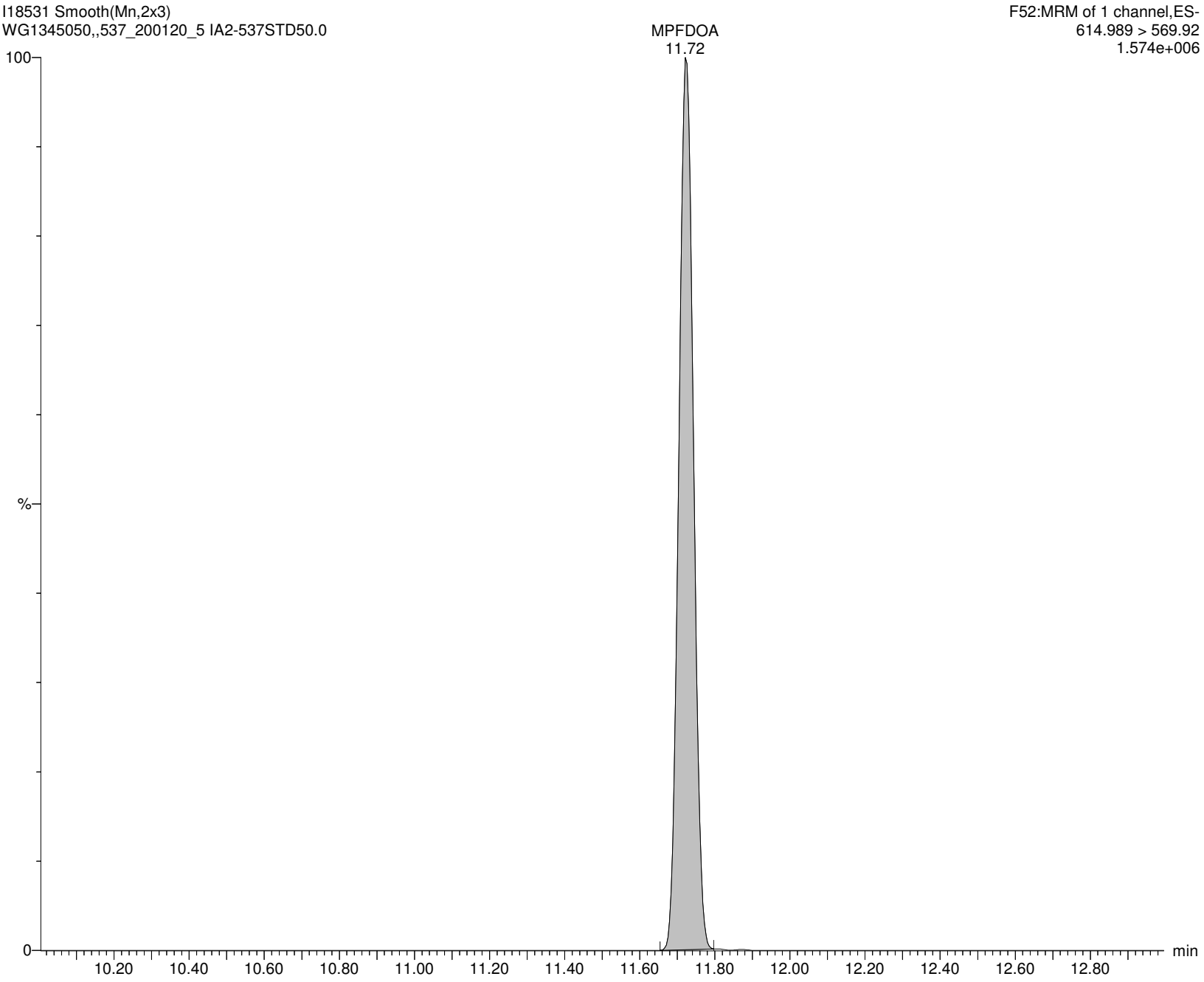

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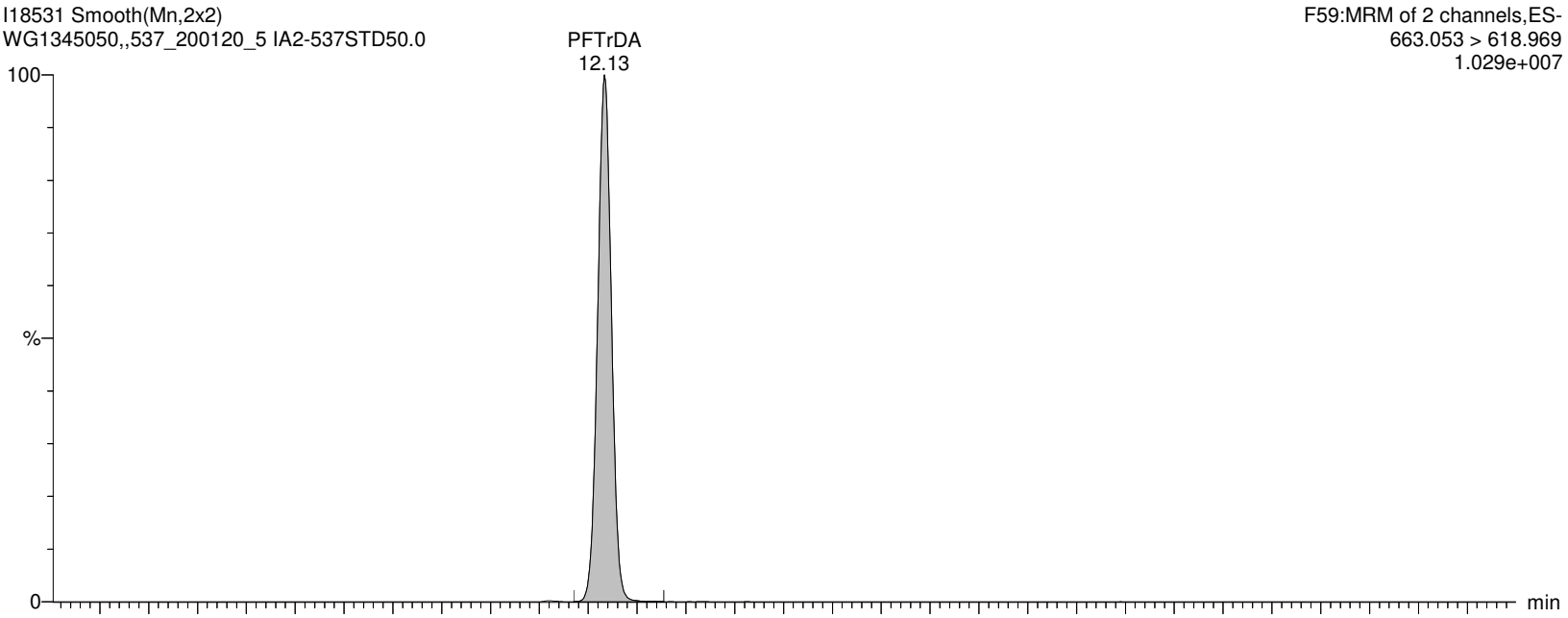

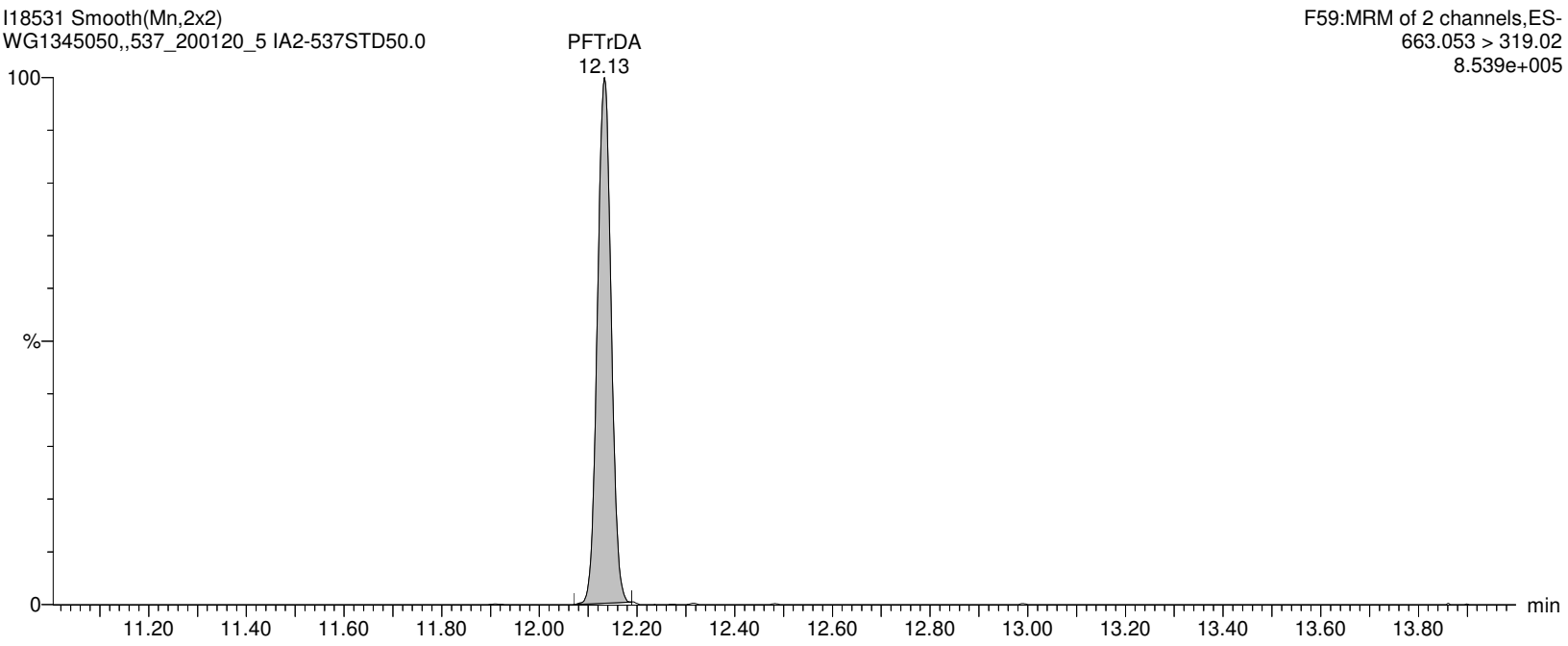

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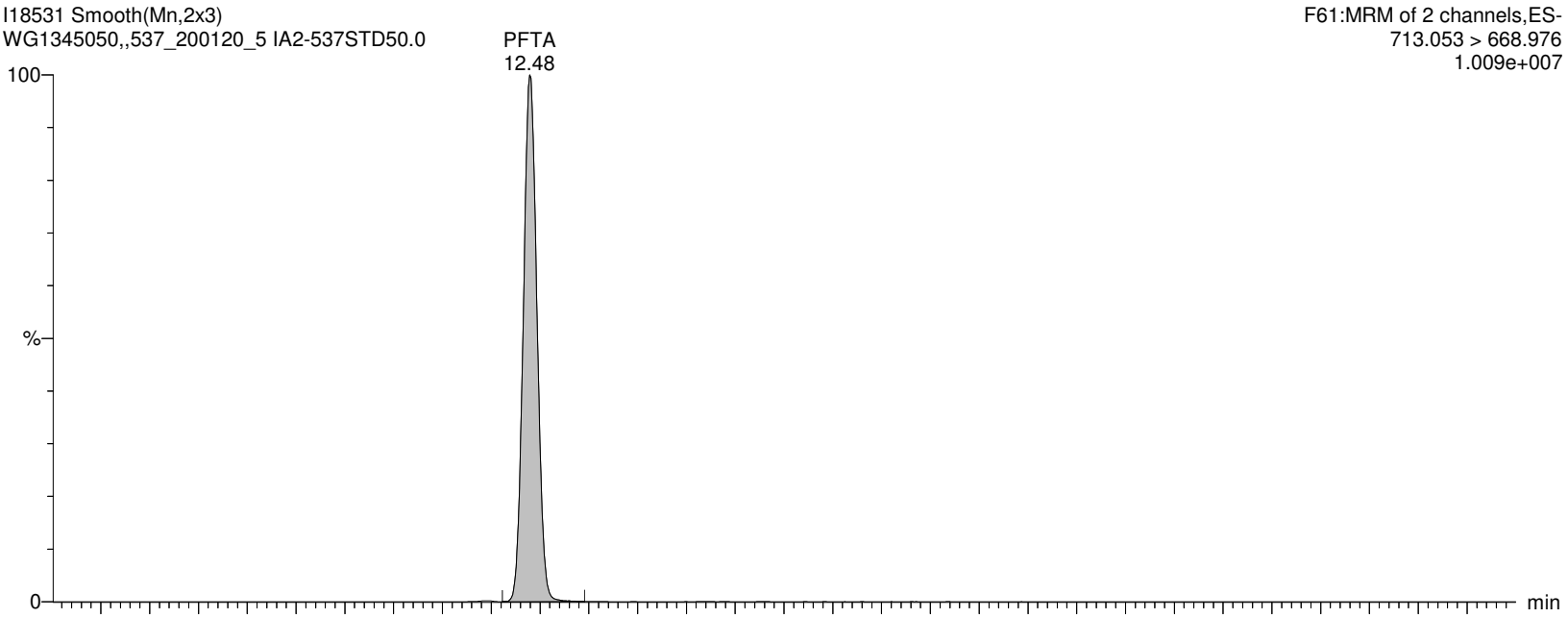

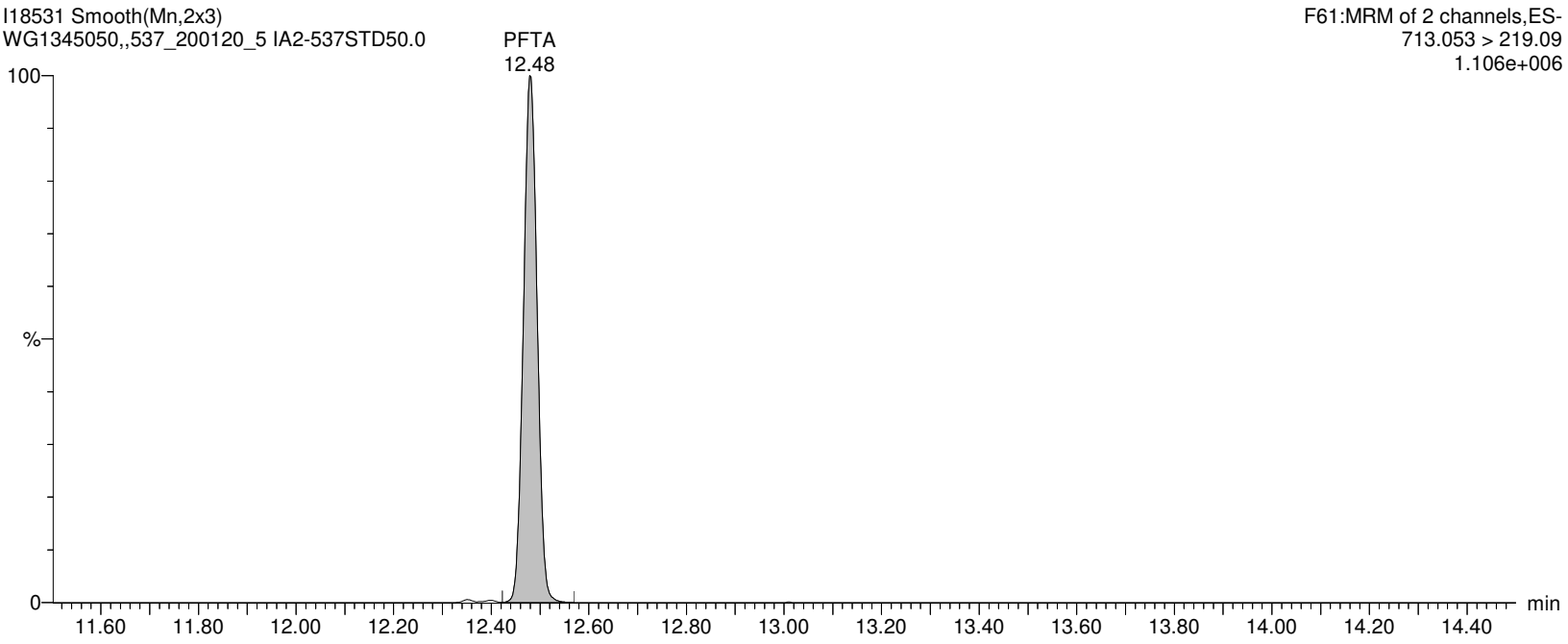

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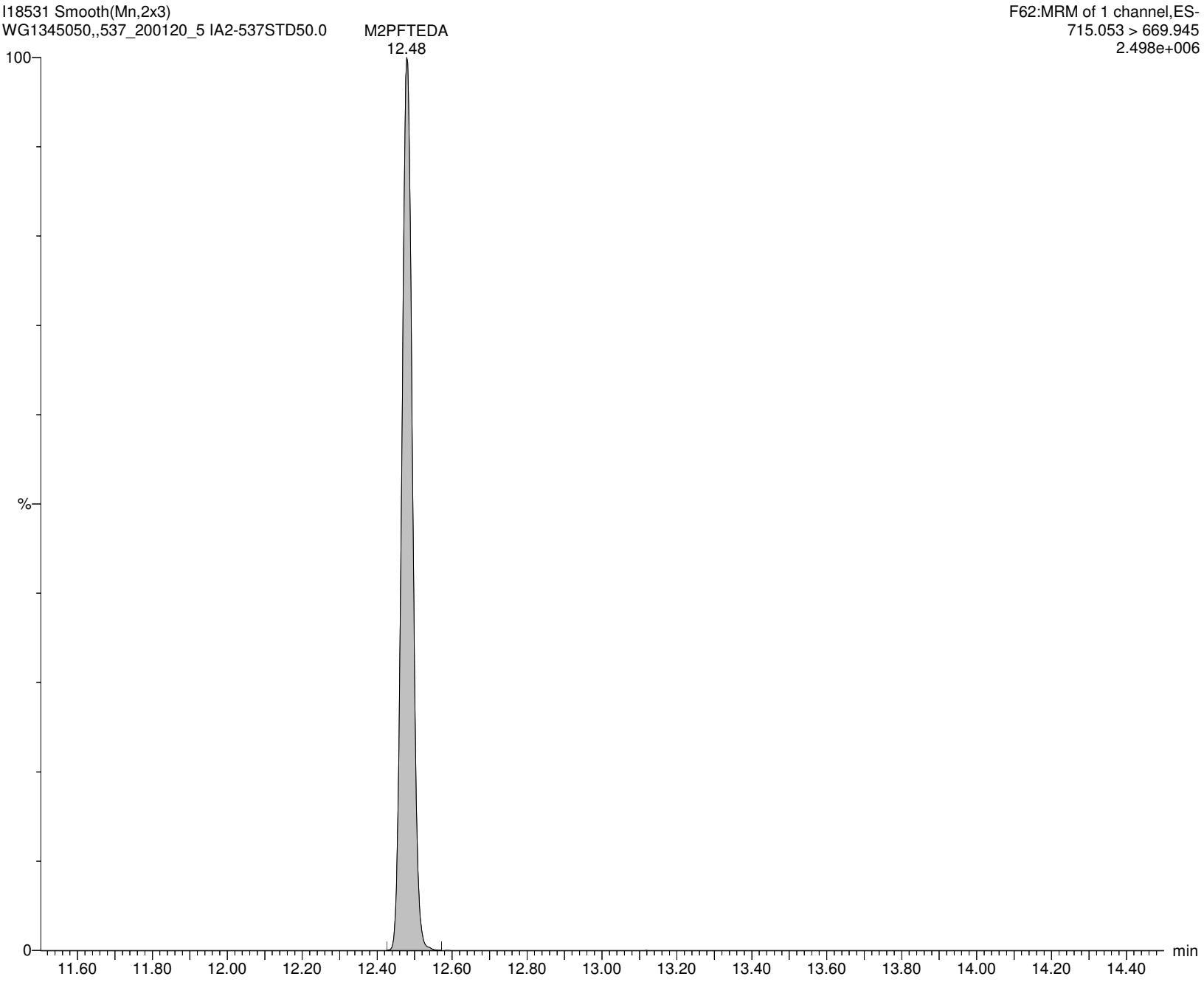

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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	391223		122.941		na	98.4
2	M3PFBA	INT STD	2.24	215.926 > 172.122	38059		9.679		na	96.8
3	MPFBA	INT STD	2.24	216.926 > 172.137	44302		10.159		na	101.6
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	496161		123.213		na	98.6
5	M5PFPEA	INT STD	5.20	267.989 > 223.081	58332		10.081		na	100.8
6	PFBS	375-73-5	5.87	298.926 > 79.923	102270		110.111	2.02	NO	99.5
7	M3PFBS	INT STD	5.87	301.989 > 80.254	10327		9.167		na	91.7
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	48273		113.234	1.75	NO	96.9
9	M2-4:2FTS	INT STD	7.05	329.117 > 309.079	7284		12.410		na	124.1
10	PFHxA	307-24-4	7.13	312.989 > 269.028	663068		123.517	17.37	NO	98.8
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	65382		10.147		na	101.5
12	PFPeS	2706-91-4	7.44	348.926 > 80.251	106015		113.087	2.35	NO	96.2
13	PFHpA	375-85-9	8.40	362.926 > 319.014	801286		120.050	5.05	NO	96.0
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	74686		9.991		na	99.9
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	16965		20.643	2.99	NO	97.1
16	L-PFHxS	355-46-4	8.55	398.904 > 79.915	64287		89.807	1.98	NO	97.1
17	PFHxS	355-46-4		398.904 > 79.915	81252		110.450		na	
18	M3PFHxS	INT STD	8.55	401.926 > 80.317	9613		9.525		na	95.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.34	412.989 > 368.9	784709		122.845	8.14	NO	98.3
21	M2PFOA	INT STD	9.34	415.032 > 369.968	78700		9.354		na	93.5
22	PFOA	335-67-1		412.989 > 368.9	784709		122.845		na	
23	M8PFOA	INT STD	9.34	420.989 > 375.979	75623		10.077		na	100.8
24	6:2FTS	27619-97-2	9.30	426.989 > 406.921	10867		99.099	0.68	NO	83.5
25	M2-6:2FTS	INT STD	9.30	428.989 > 408.917	4596		12.585		na	125.9
26	PFHpS	375-92-8	9.43	448.926 > 80.257	58092		118.157	1.06	NO	99.5
27	PFNA	375-95-1	10.09	462.989 > 418.931	690356		129.723	4.20	NO	103.8
28	M9PFNA	INT STD	10.09	472.053 > 426.947	71524		9.748		na	97.5
29	br-PFOS	1763-23-1	9.95	498.968 > 79.918	21667	M5	25.323	3.91	NO	101.3
30	L-PFOS	1763-23-1	10.14	498.968 > 79.918	48144		91.054	1.34	NO	99.8
31	PFOS	1763-23-1		498.968 > 79.918	69811		116.377		na	
32	M4PFOS	INT STD	10.14	503.032 > 80.306	8782		10.339		na	103.4
33	M8PFOS	INT STD	10.14	507.053 > 80.294	9251		9.071		na	90.7
34	PFDA	335-76-2	10.71	513.053 > 468.906	617393		122.835	5.54	NO	98.3
35	M2PFDA	INT STD	10.71	515.053 > 469.934	59026		8.923		na	89.2
36	M6PFDA	INT STD	10.71	519.053 > 473.931	65619		10.104		na	101.0
37	8:2FTS	39108-34-4	10.70	527.032 > 507.079	14184		118.395	1.68	NO	98.7
38	M2-8:2FTS	INT STD	10.70	529.053 > 508.945	2492		11.285		na	112.9
39	PFNS	68259-12-1	10.74	548.989 > 80.249	76054		119.787	1.40	NO	99.8

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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	9127		10.609		na	106.1
41	NMeFOSAA	2355-31-9	11.08	570.053 > 418.917	70060		128.446	2.80	NO	102.8
42	PFUnA	2058-94-8	11.24	562.989 > 518.903	593038		117.168	7.69	NO	93.7
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	56477		9.897		na	99.0
44	PFDS	335-77-3	11.26	598.926 > 80.314	78685		126.685	1.64	NO	105.0
45	FOSA	754-91-6	11.12	497.989 > 78.245	276516		126.264	201.90	NO	101.0
46	M8FOSA	INT STD	11.11	506.053 > 78.286	26596		10.219		na	102.2
47	d5-NEtFOSAA	INT STD	11.36	589.117 > 418.929	6575		10.480		na	104.8
48	NEtFOSAA	2991-50-6	11.37	583.989 > 418.927	68871		122.796	3.11	NO	98.2
49	PFDoA	307-55-1	11.72	612.989 > 568.967	721807		134.996	13.89	NO	108.0
50	MPFDOA	INT STD	11.72	614.989 > 569.92	58893		9.599		na	96.0
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	648500		127.558	11.92	NO	102.0
52	PFTA	376-06-7	12.48	713.053 > 668.976	680592		124.745	8.84	NO	99.8
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	73636		10.649		na	106.5

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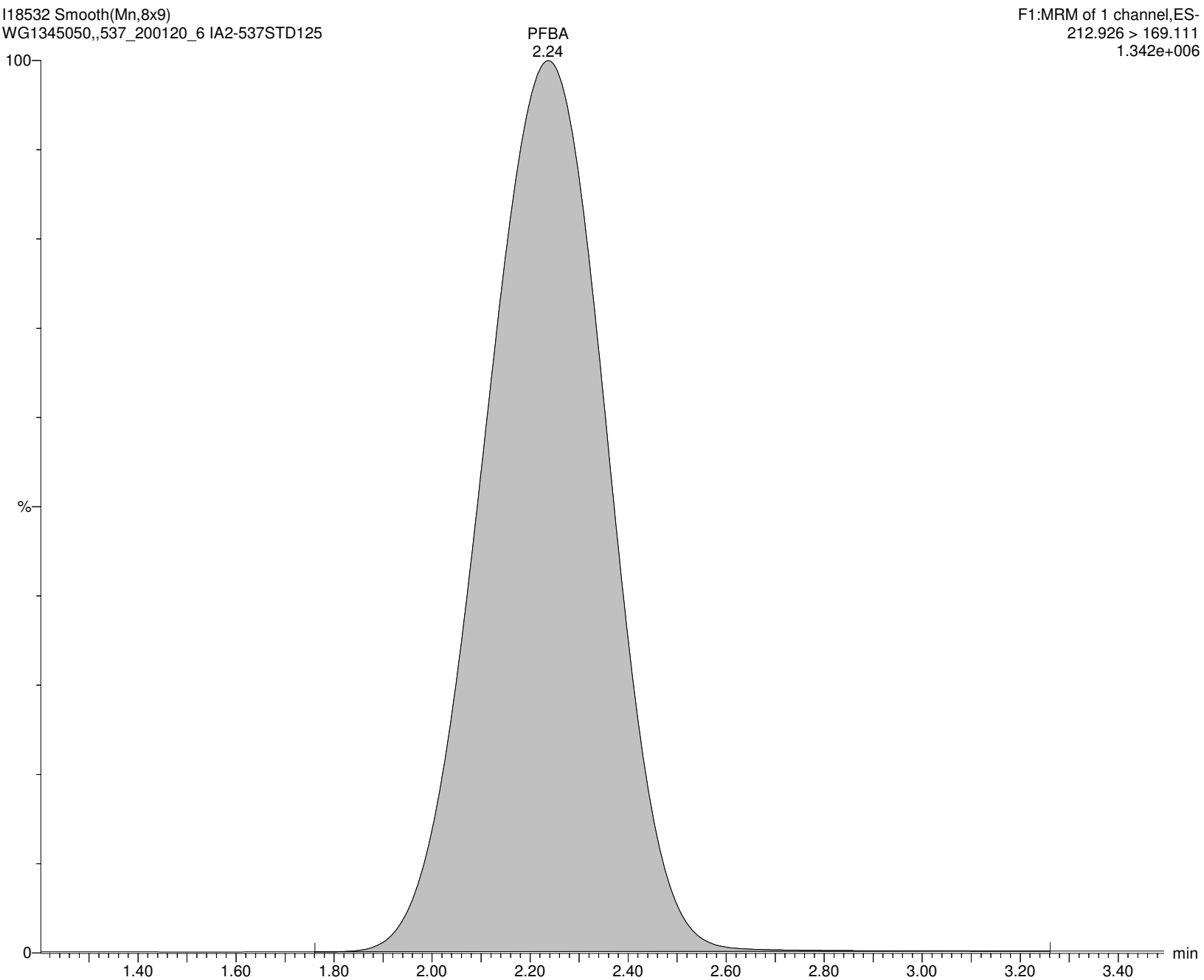

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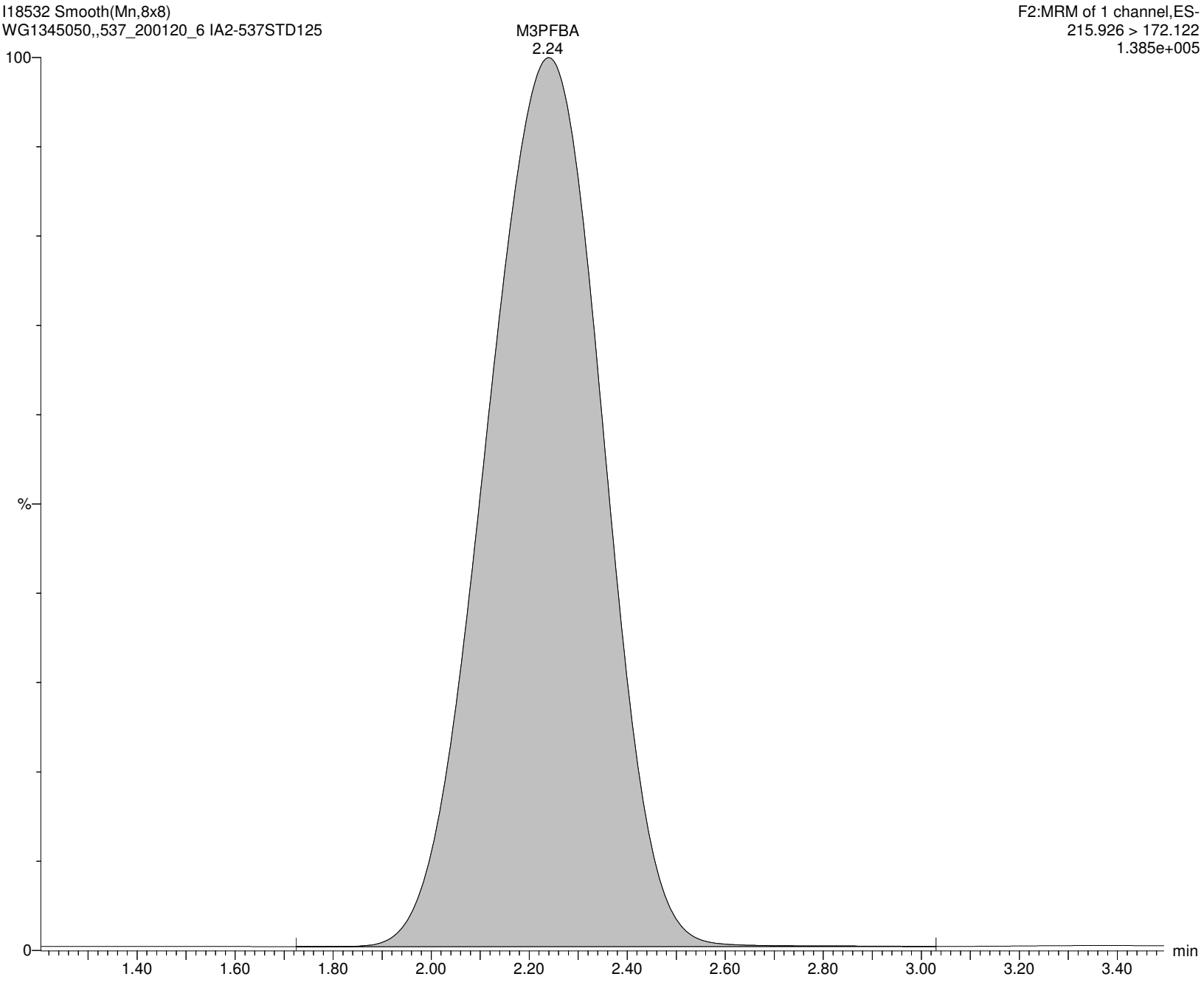

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:52 Eastern Standard Time

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ID: IA2-537STD125
Date: 27-Feb-2020
Time: 14:51:56
Description: WG1345050,,537_200120_6
User: LCMS01:SG
Vial: 1:A,7
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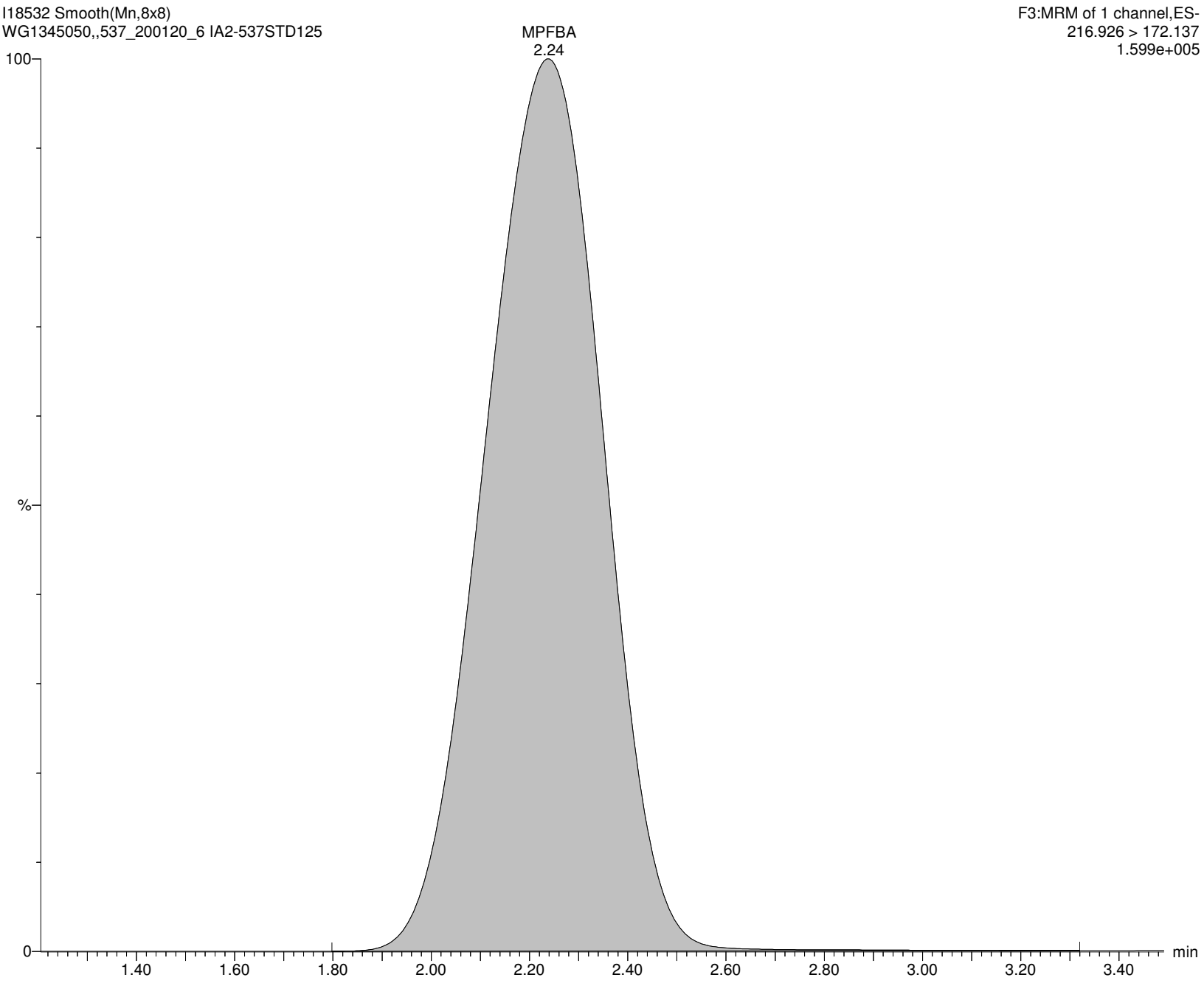

all concentration units in (ng/mL)

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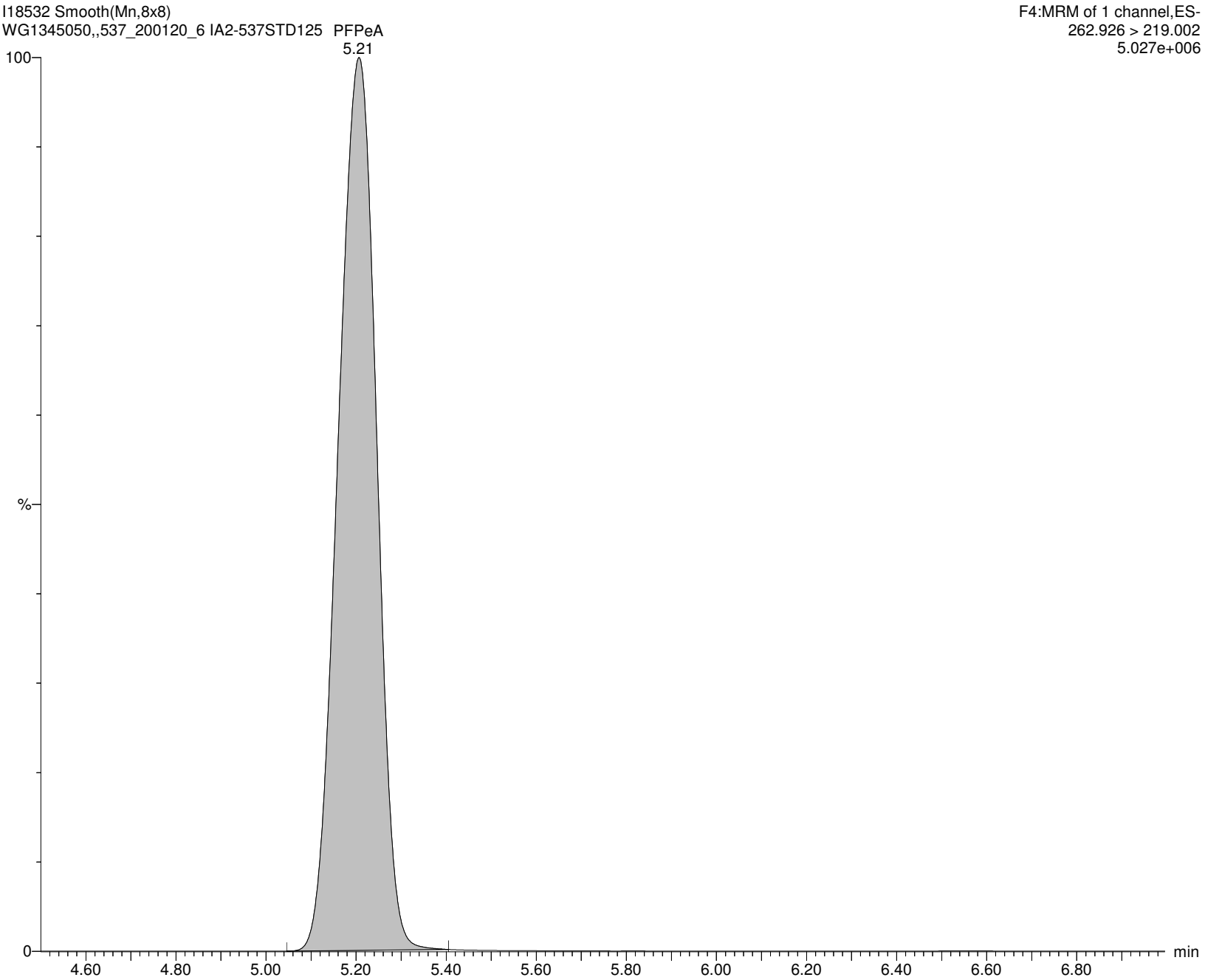

all concentration units in (ng/mL)

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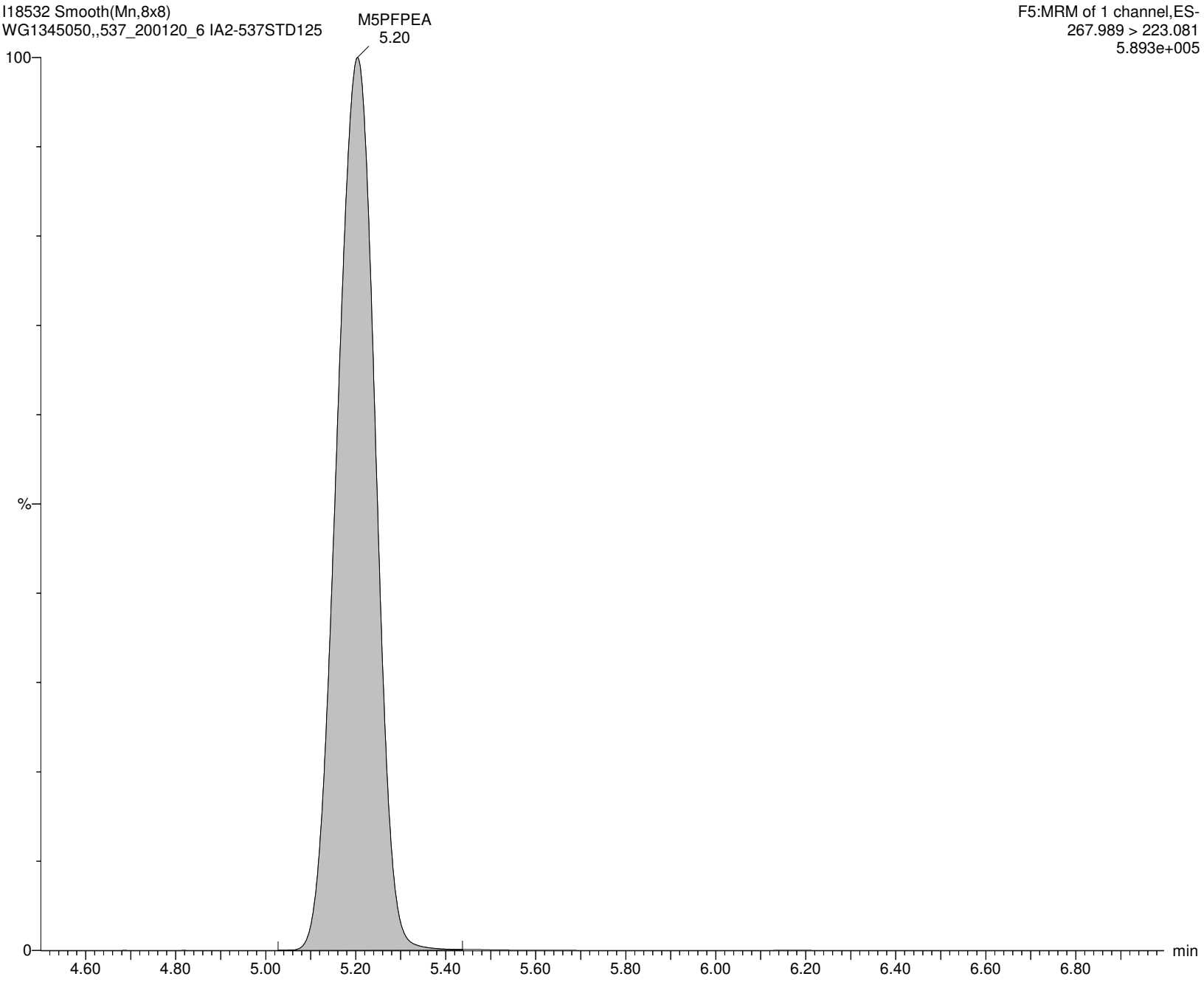

all concentration units in (ng/mL)

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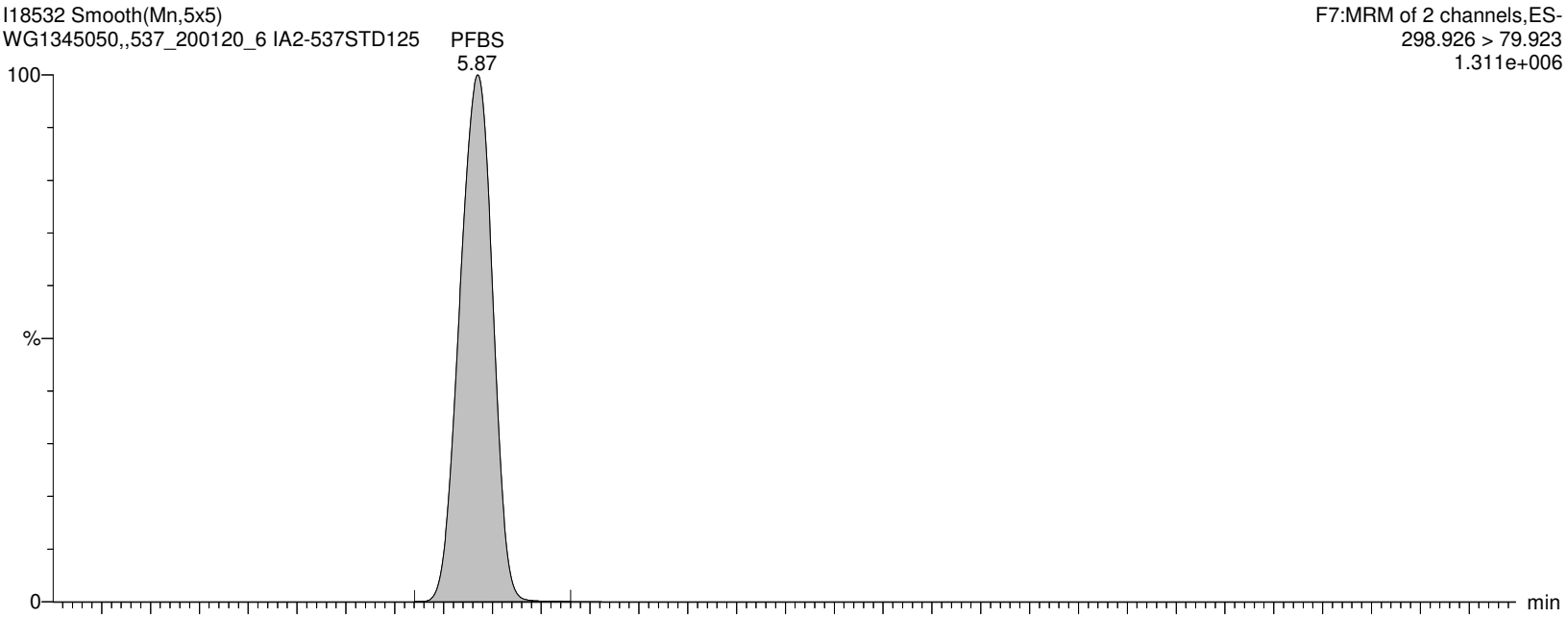

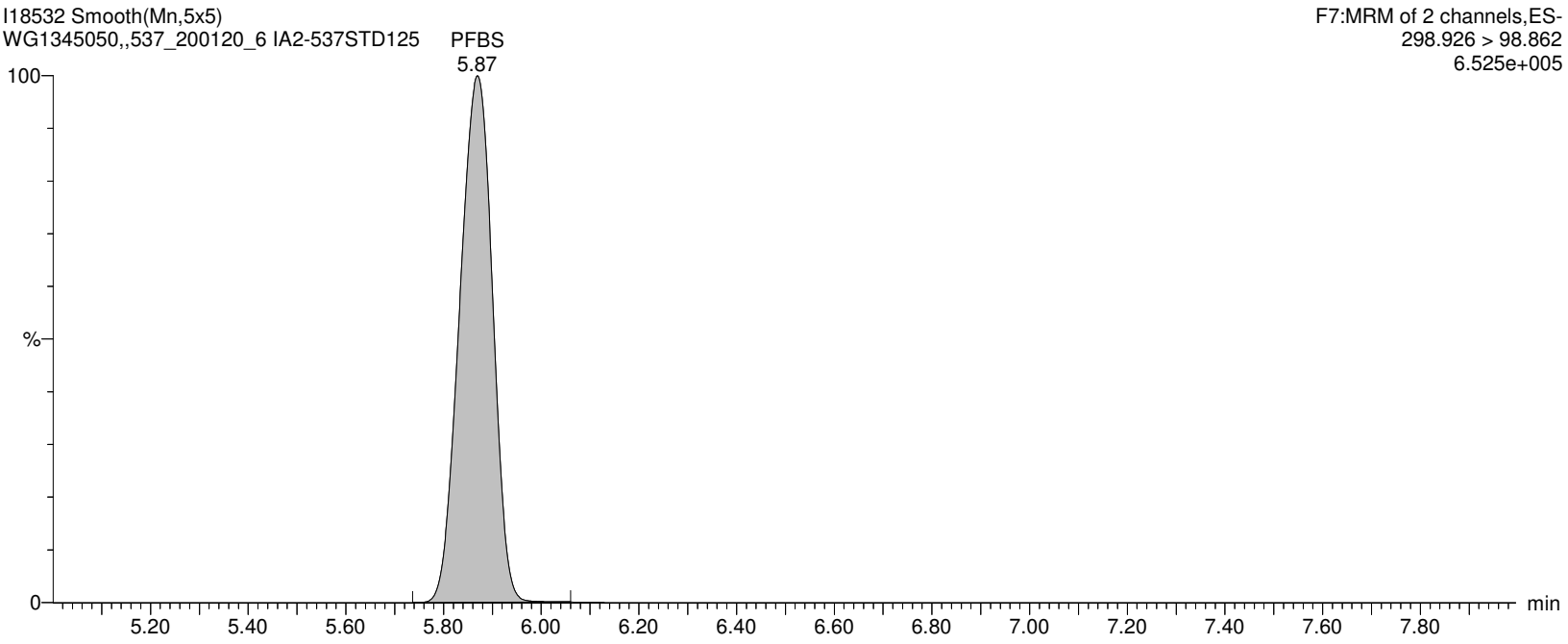

all concentration units in (ng/mL)

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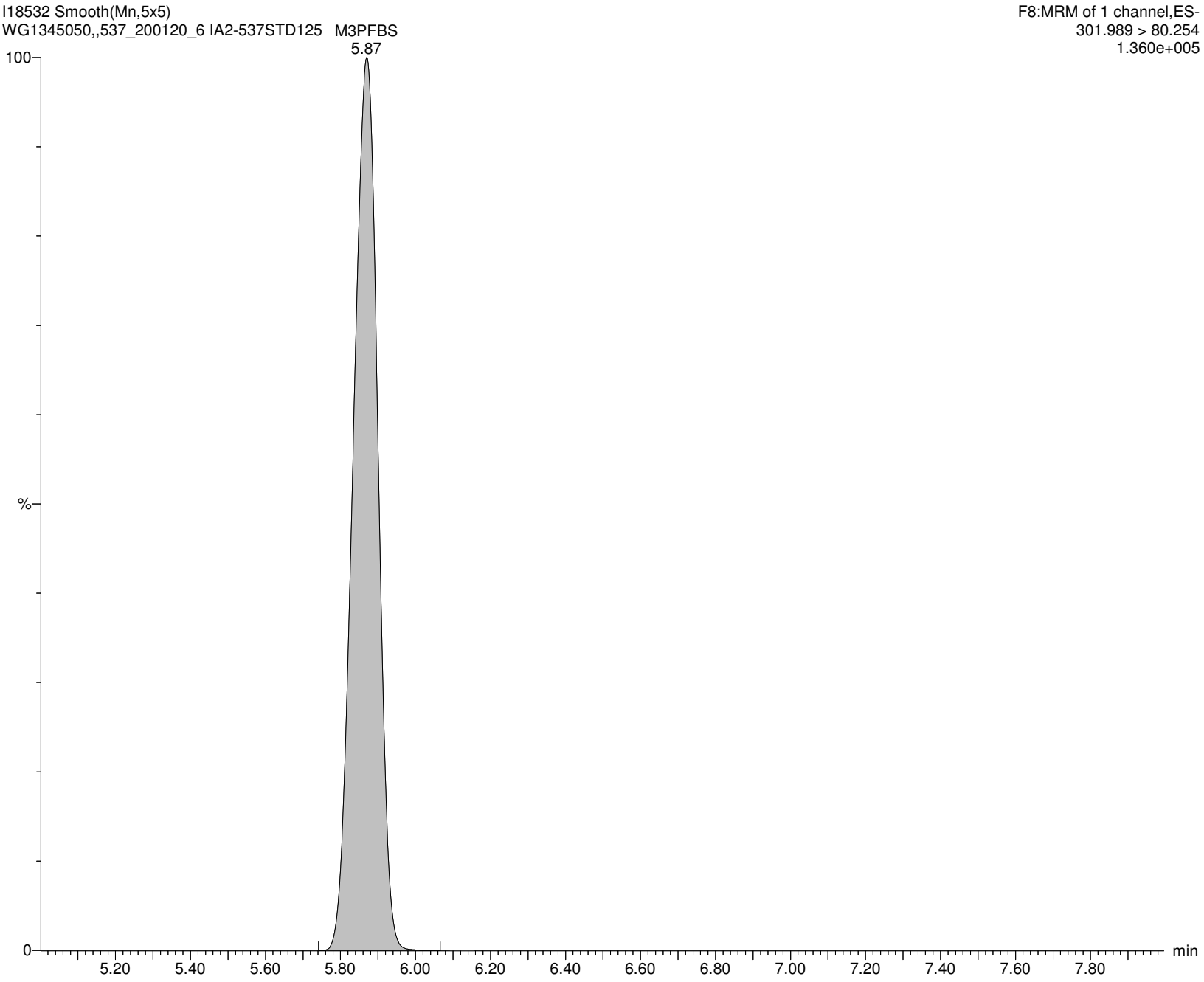

all concentration units in (ng/mL)

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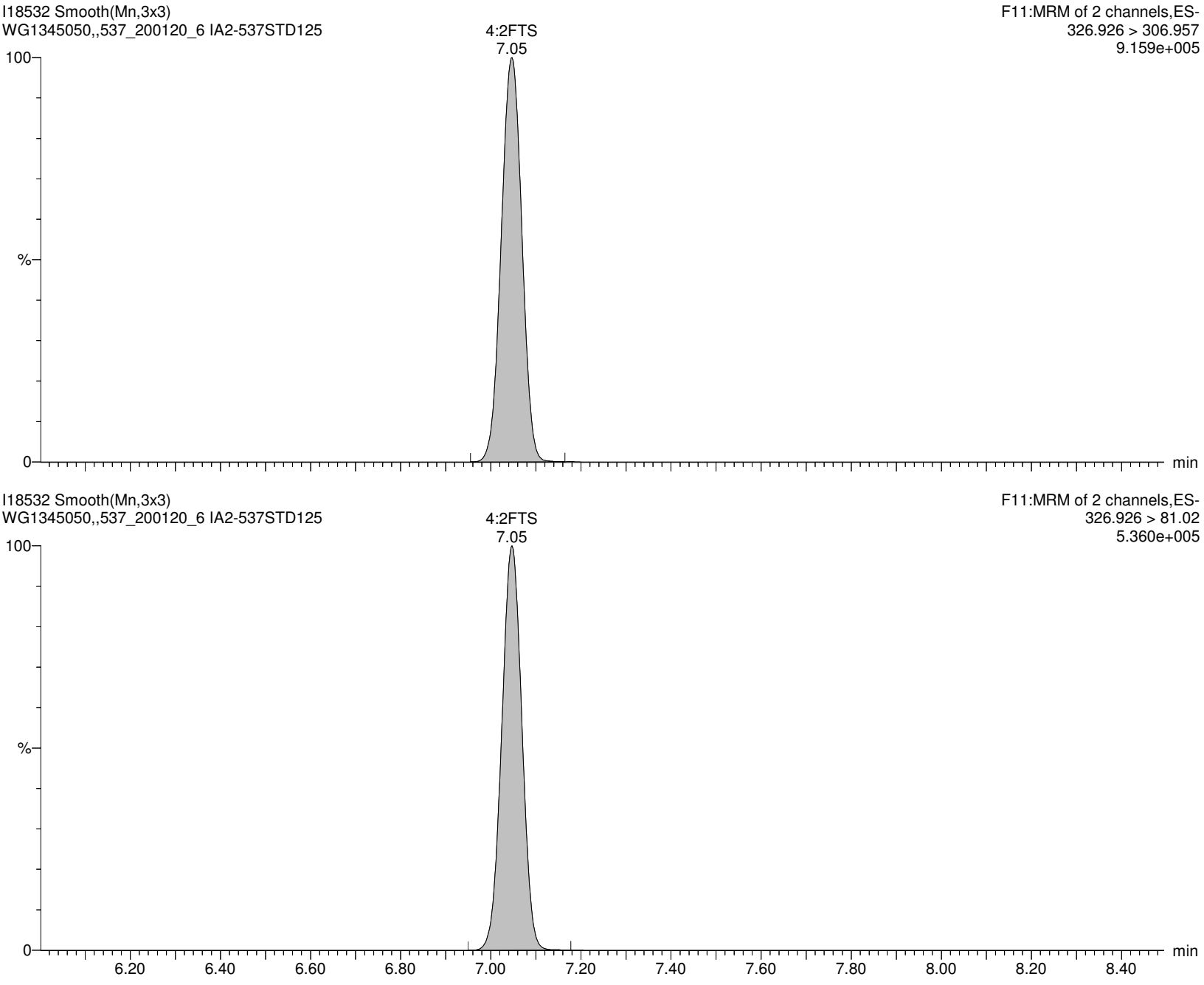

all concentration units in (ng/mL)

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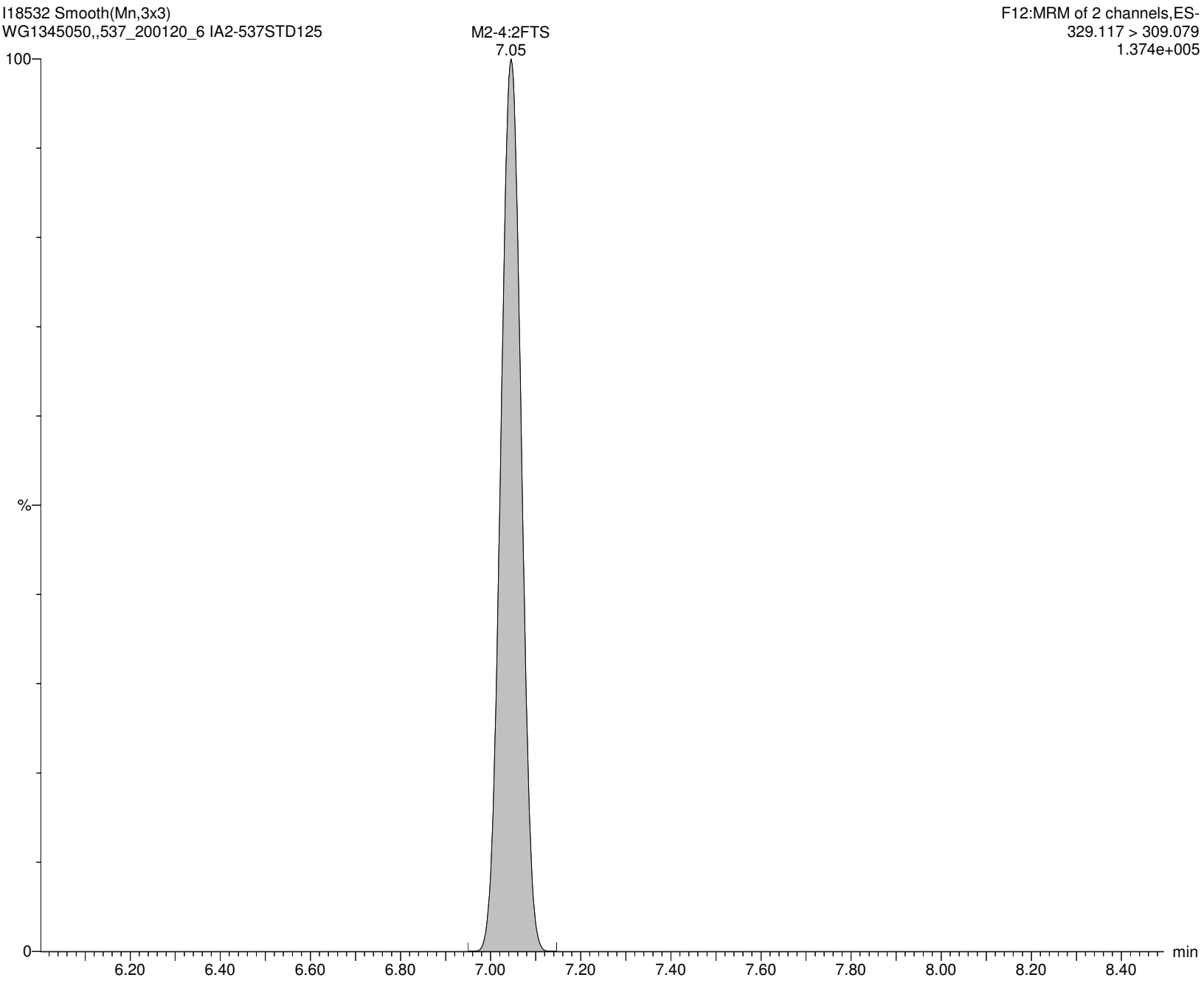

all concentration units in (ng/mL)

Alpha Analytical Inc.
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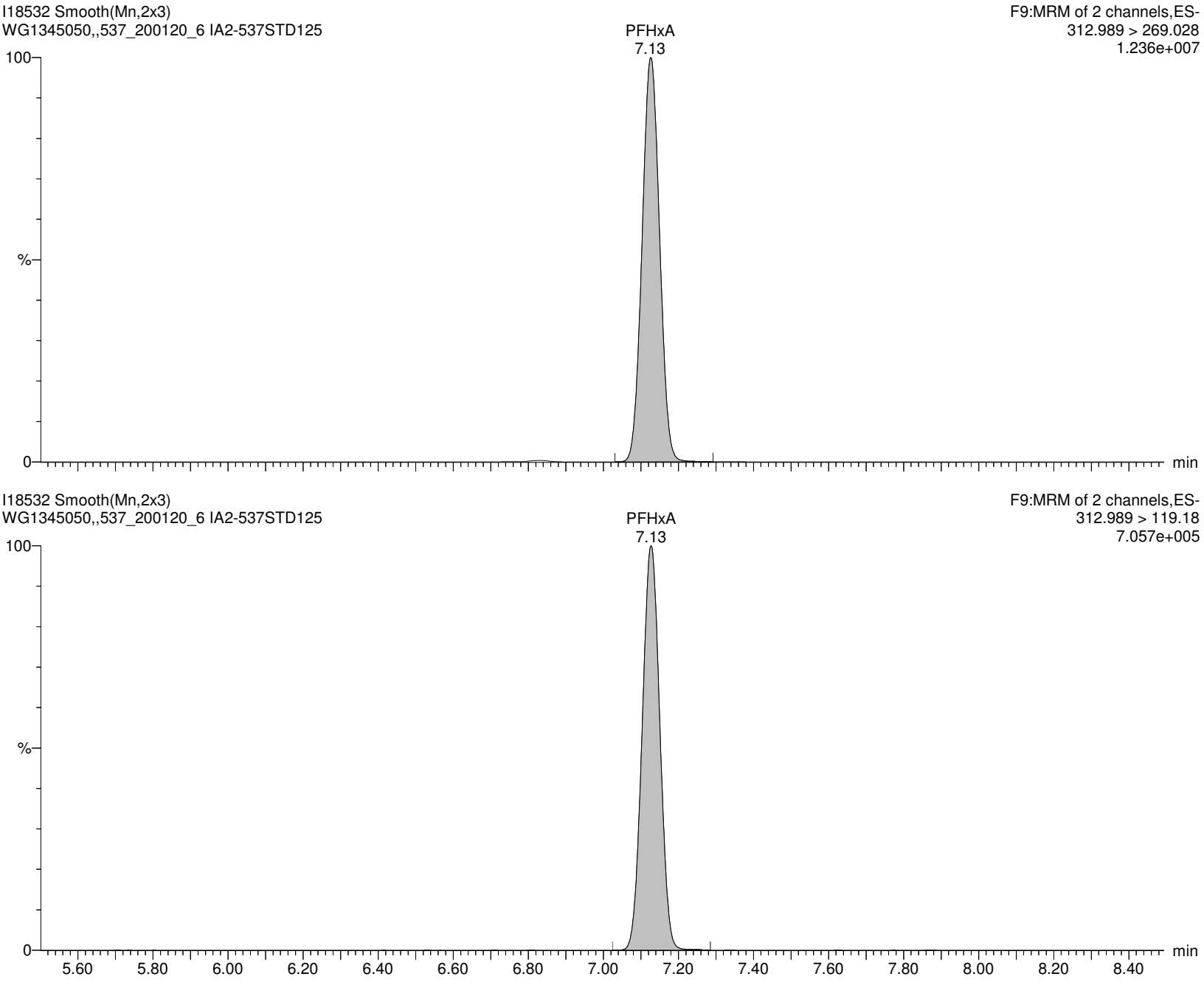

all concentration units in (ng/mL)

Alpha Analytical Inc.
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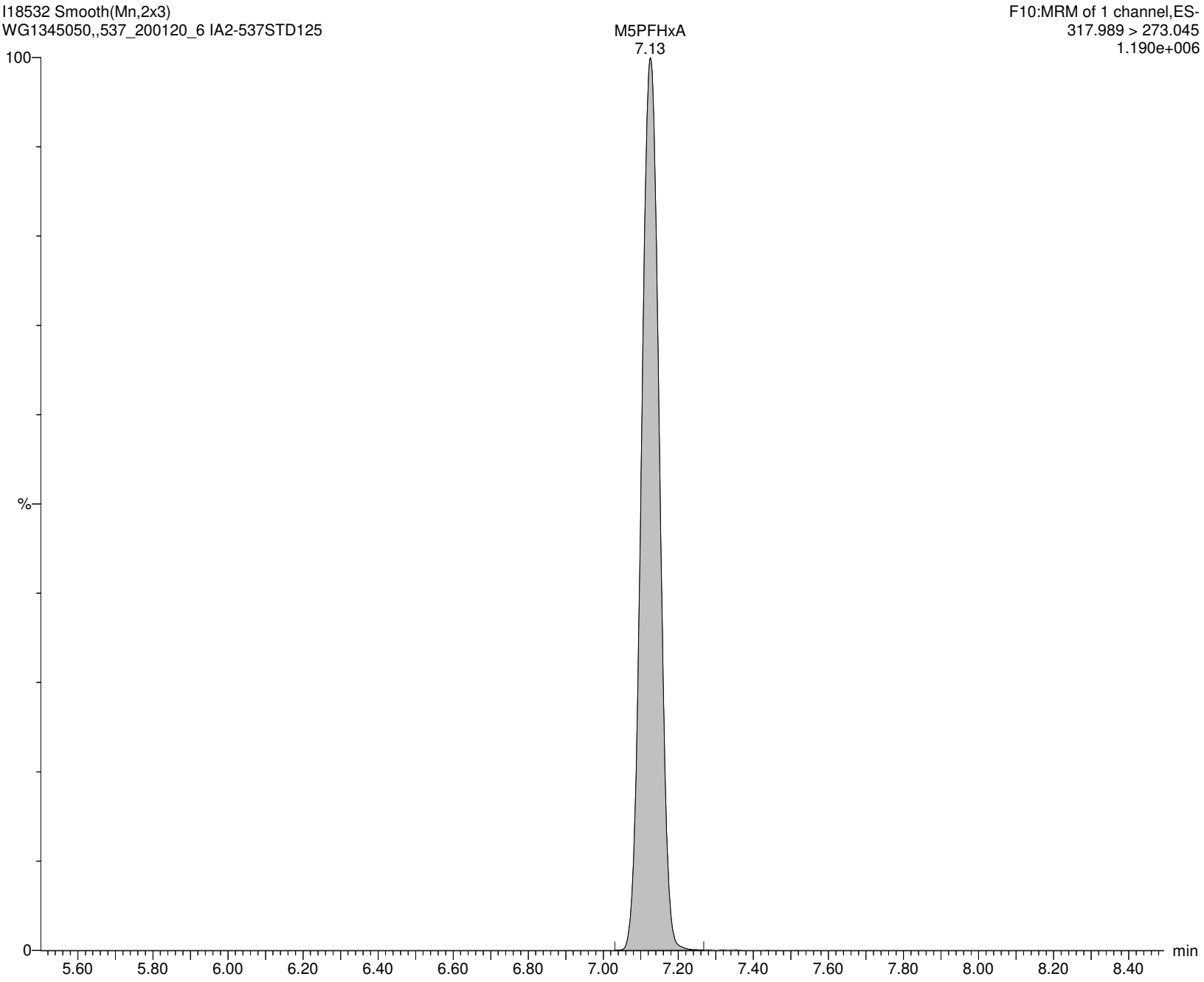

all concentration units in (ng/mL)

Alpha Analytical Inc.
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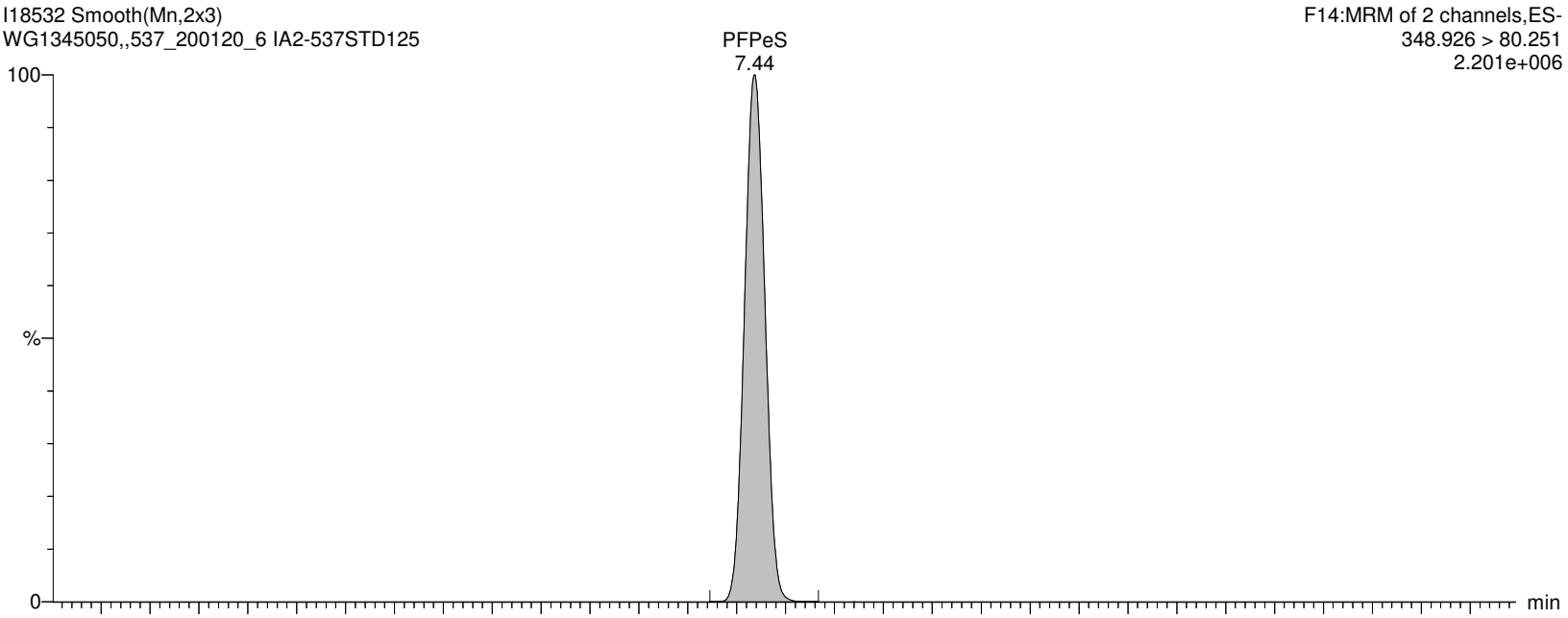

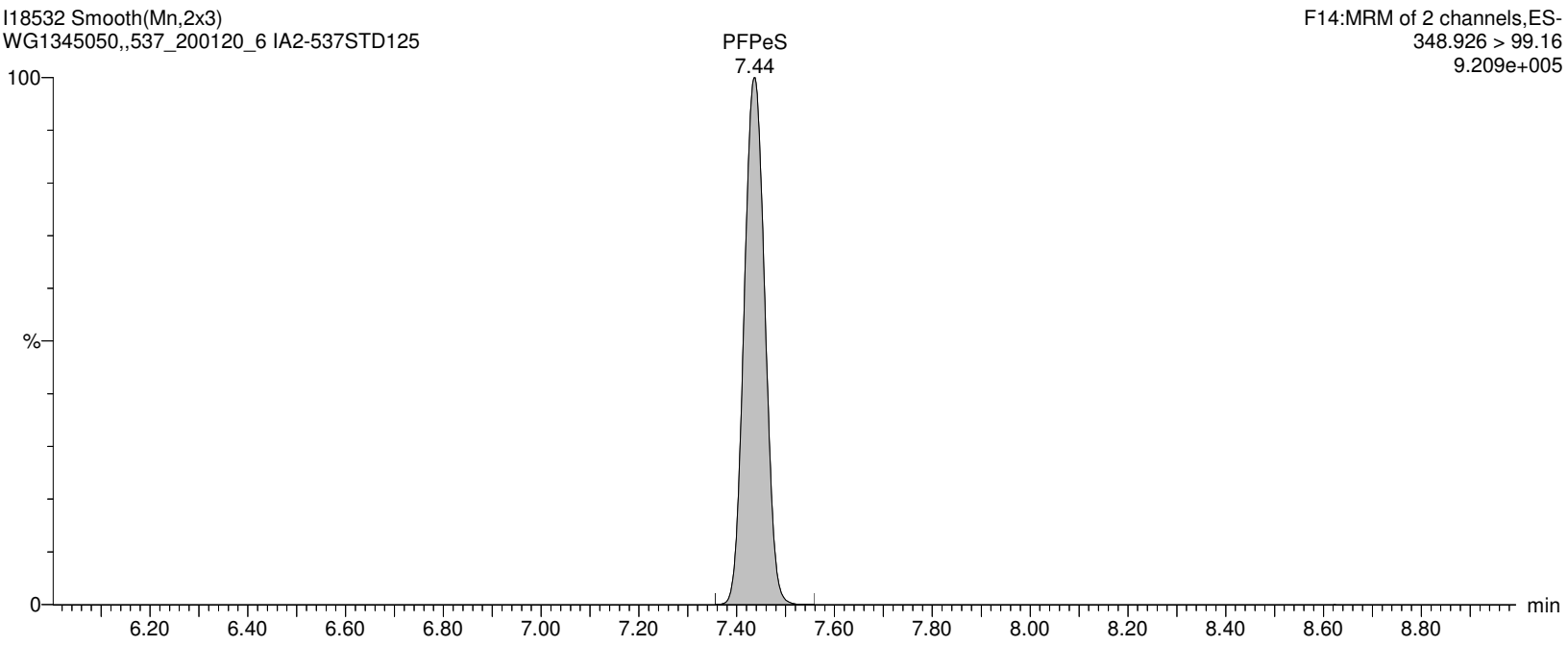

all concentration units in (ng/mL)

Alpha Analytical Inc.
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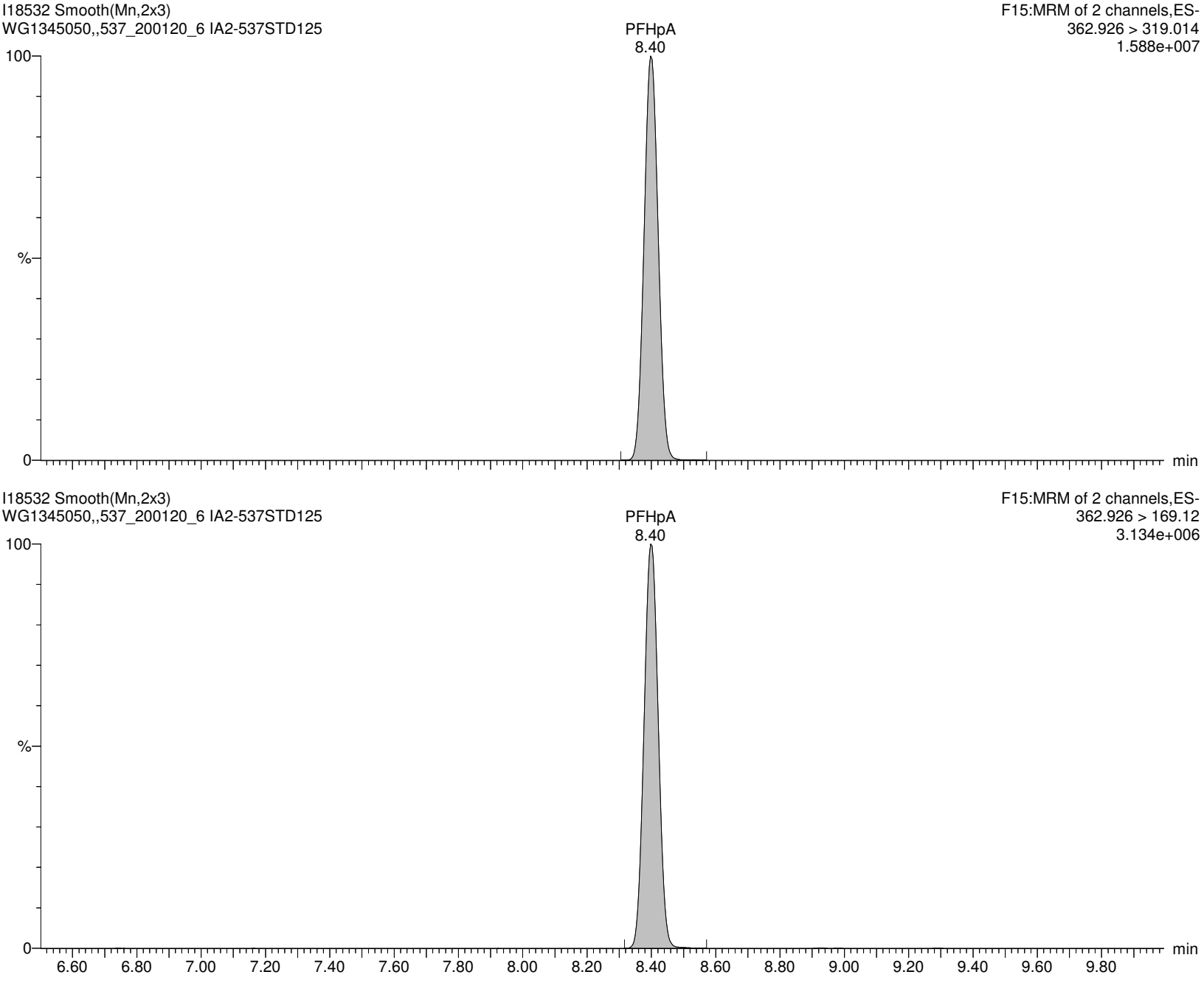

all concentration units in (ng/mL)

Alpha Analytical Inc.
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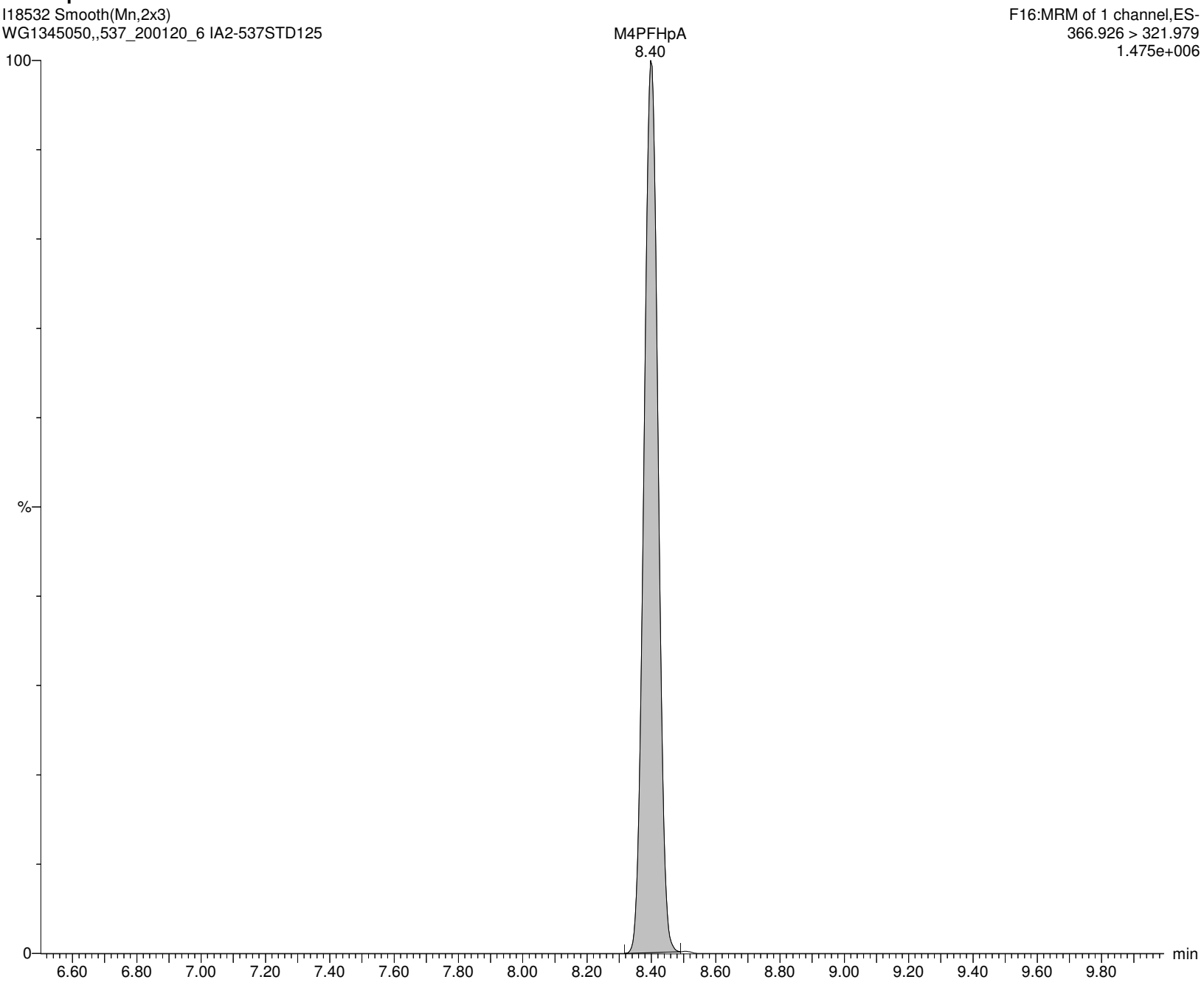

all concentration units in (ng/mL)

Alpha Analytical Inc.
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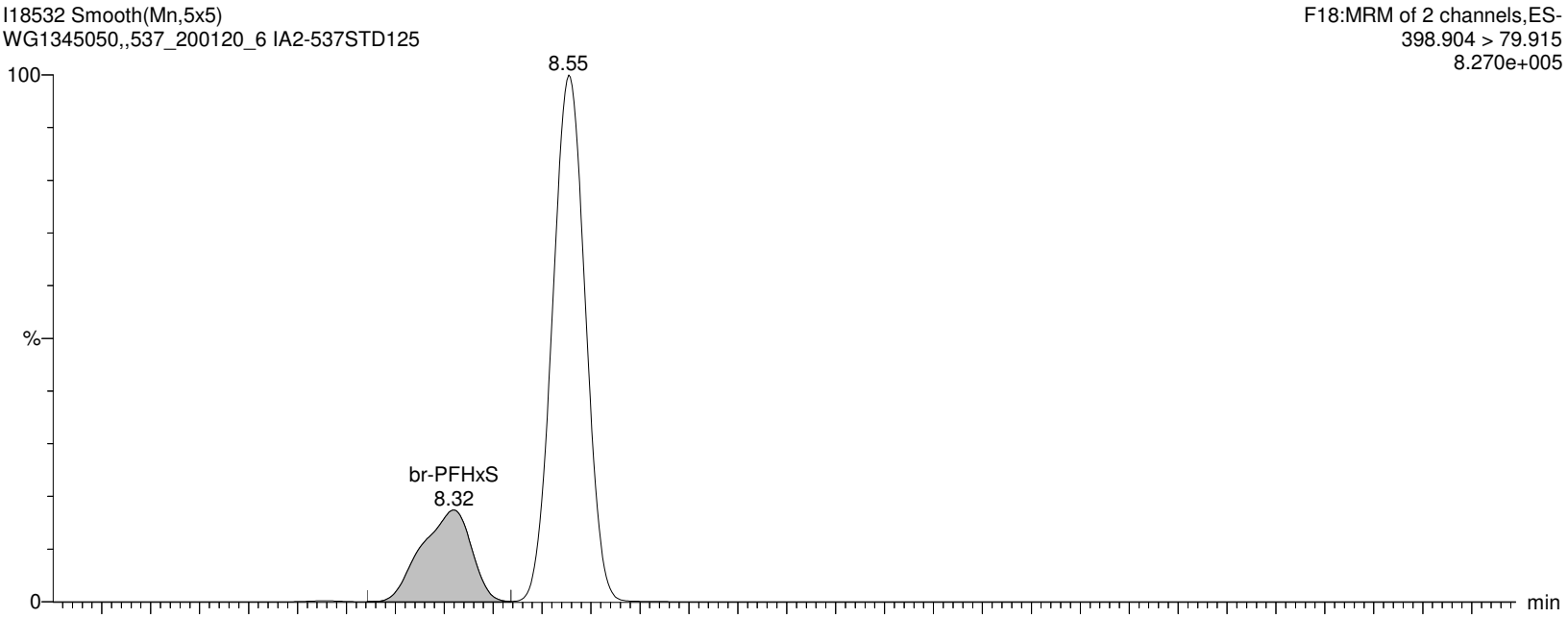

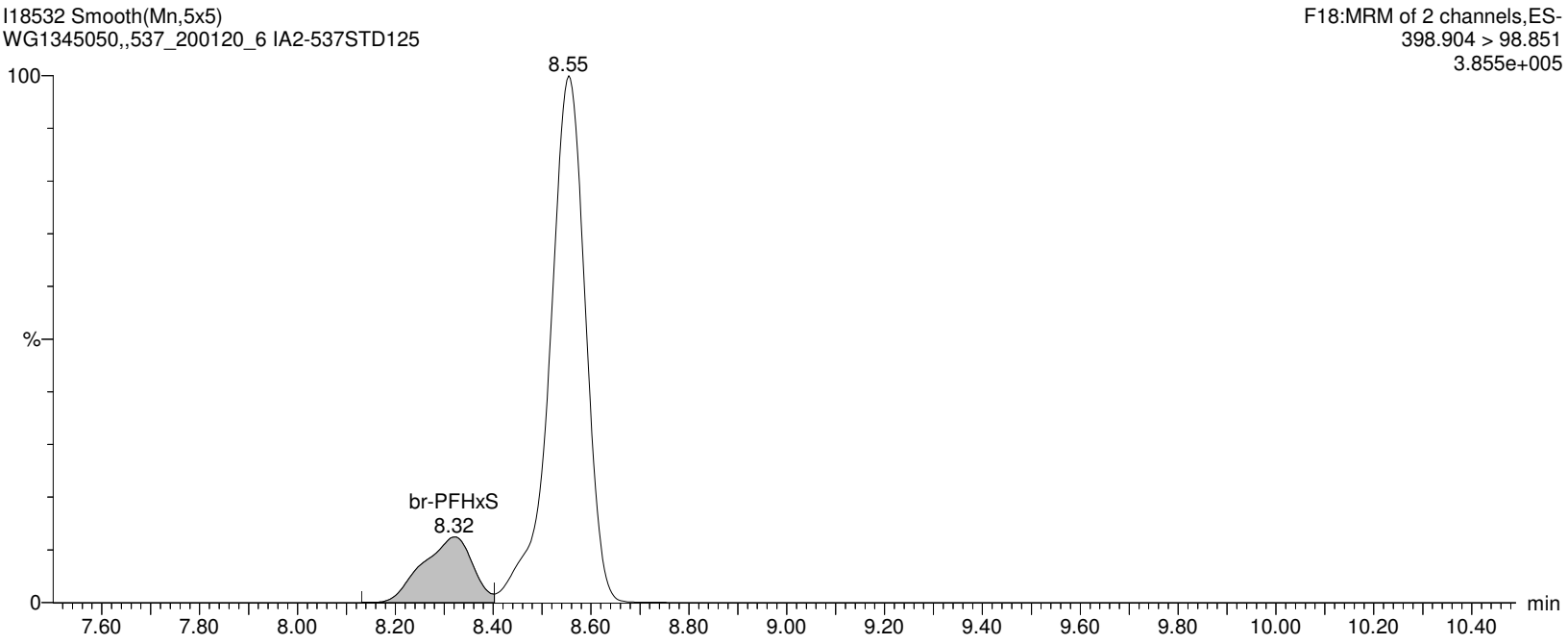

all concentration units in (ng/mL)

Alpha Analytical Inc.
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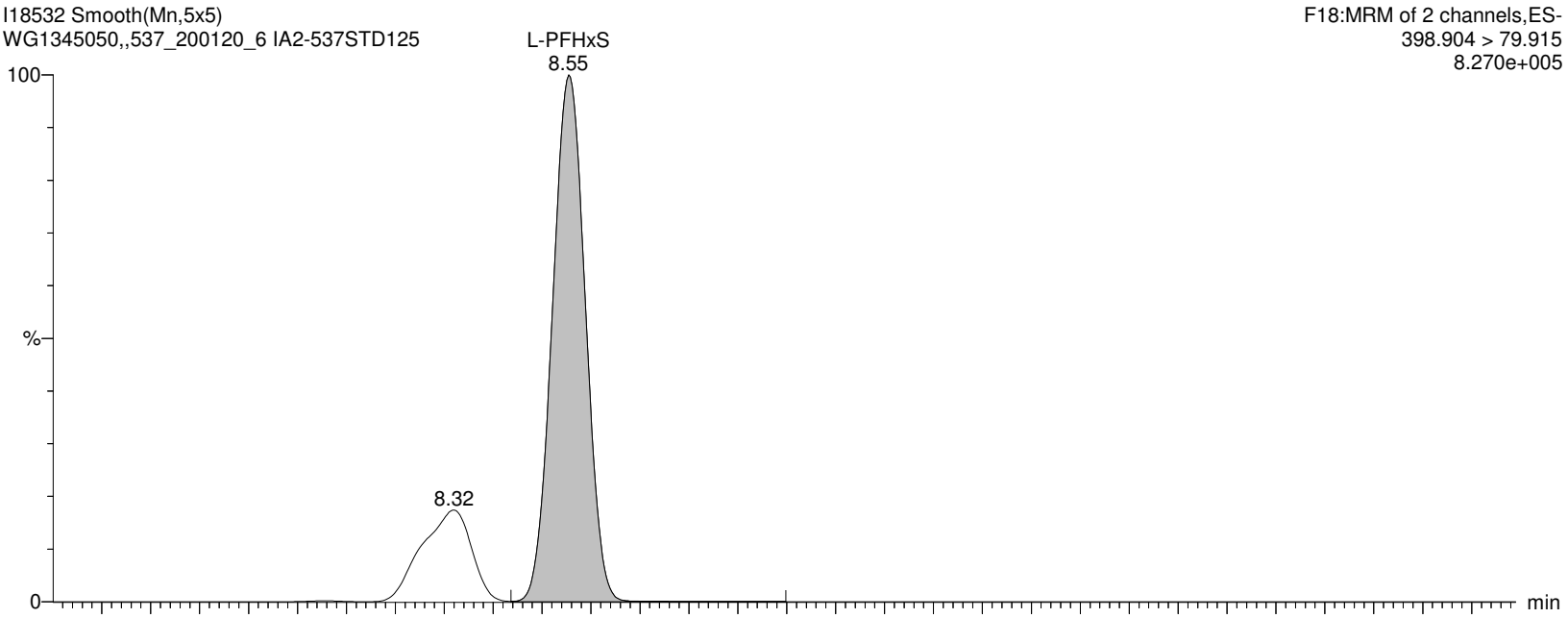

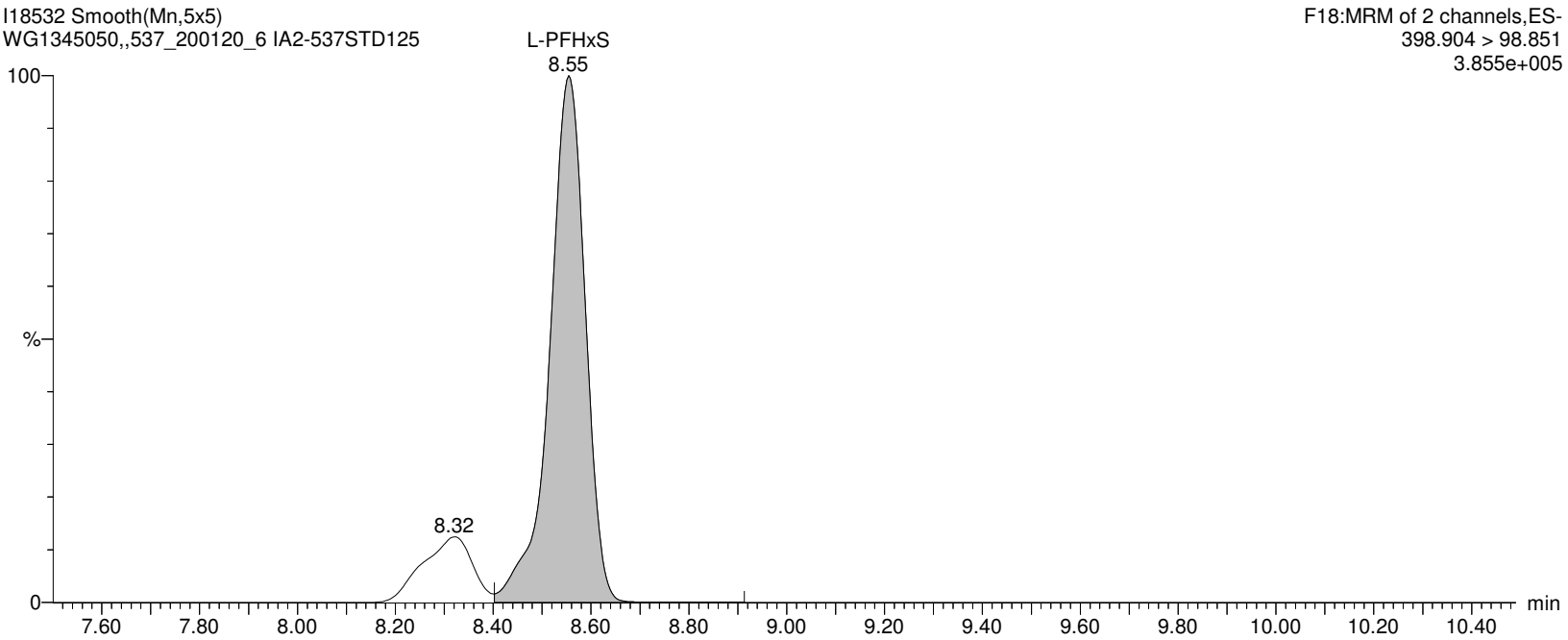

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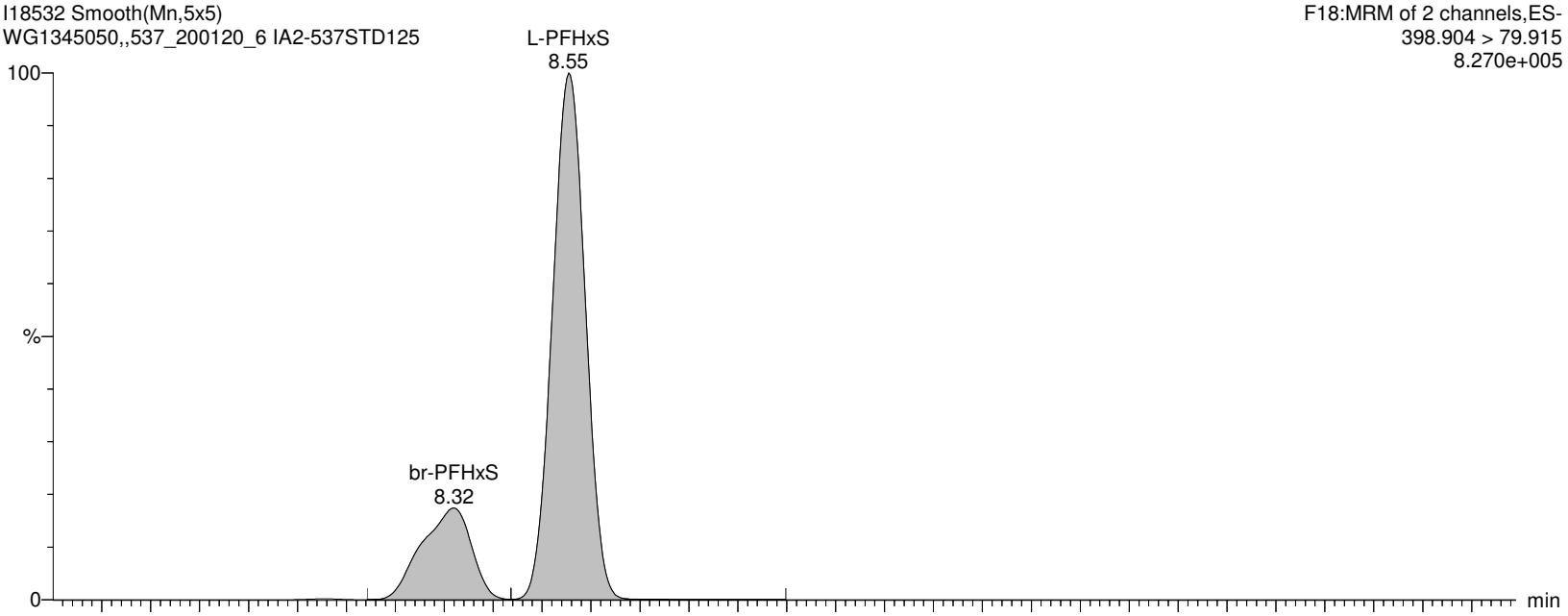

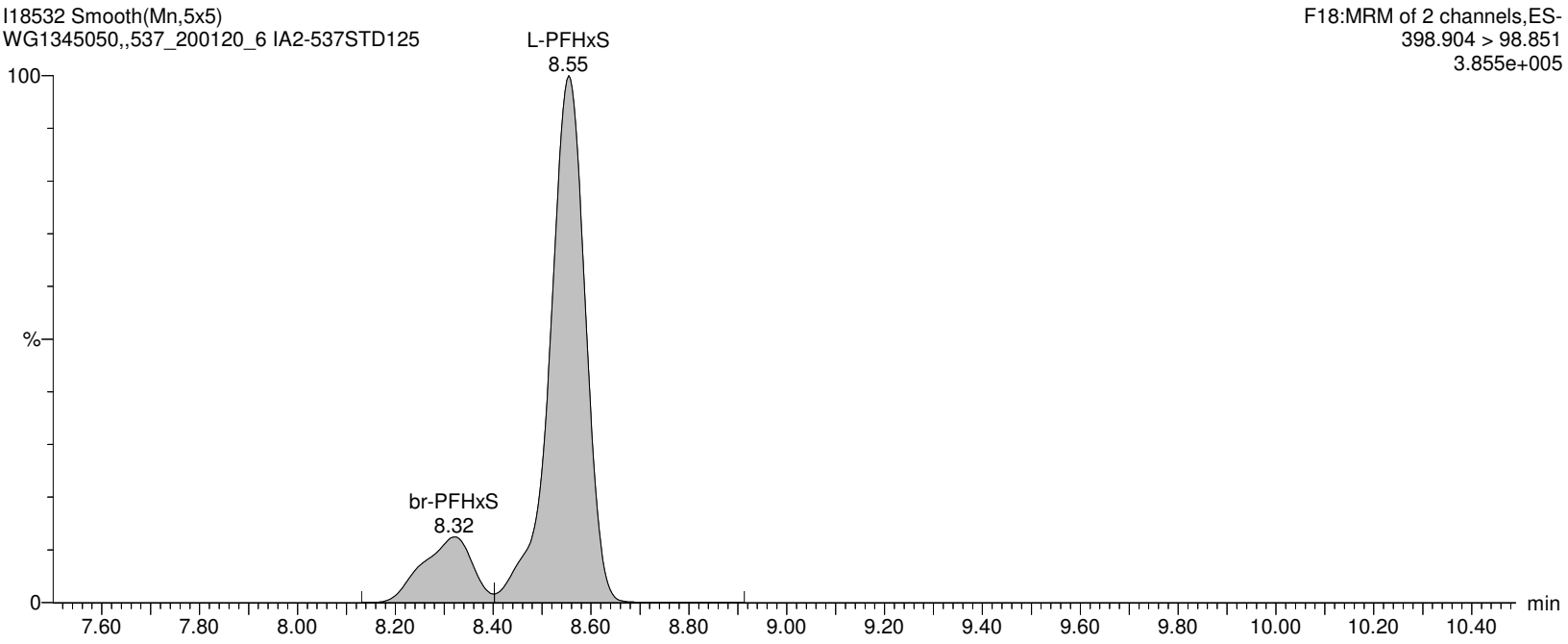

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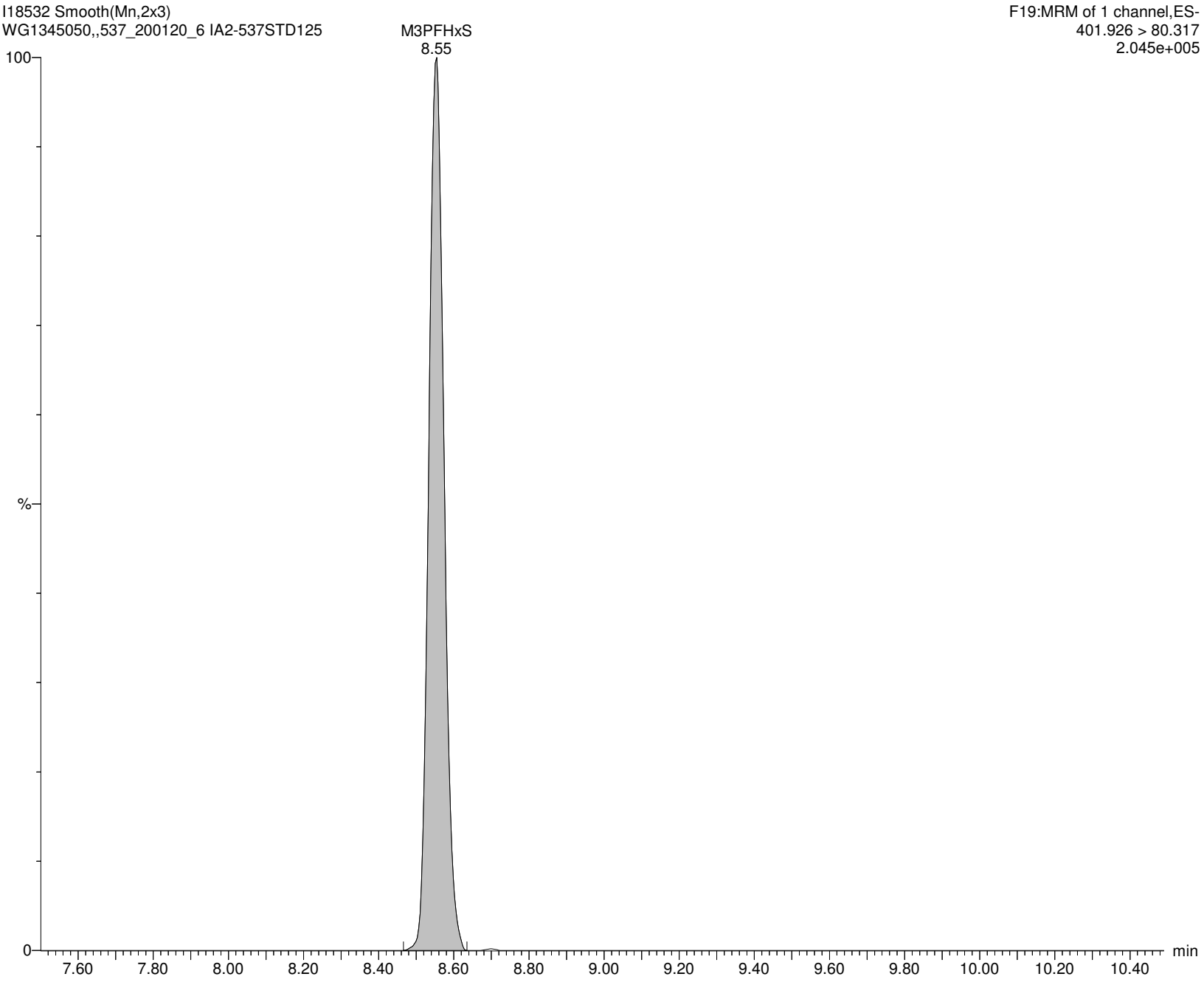
M3PFHxS



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Date: 27-Feb-2020
Time: 14:51:56
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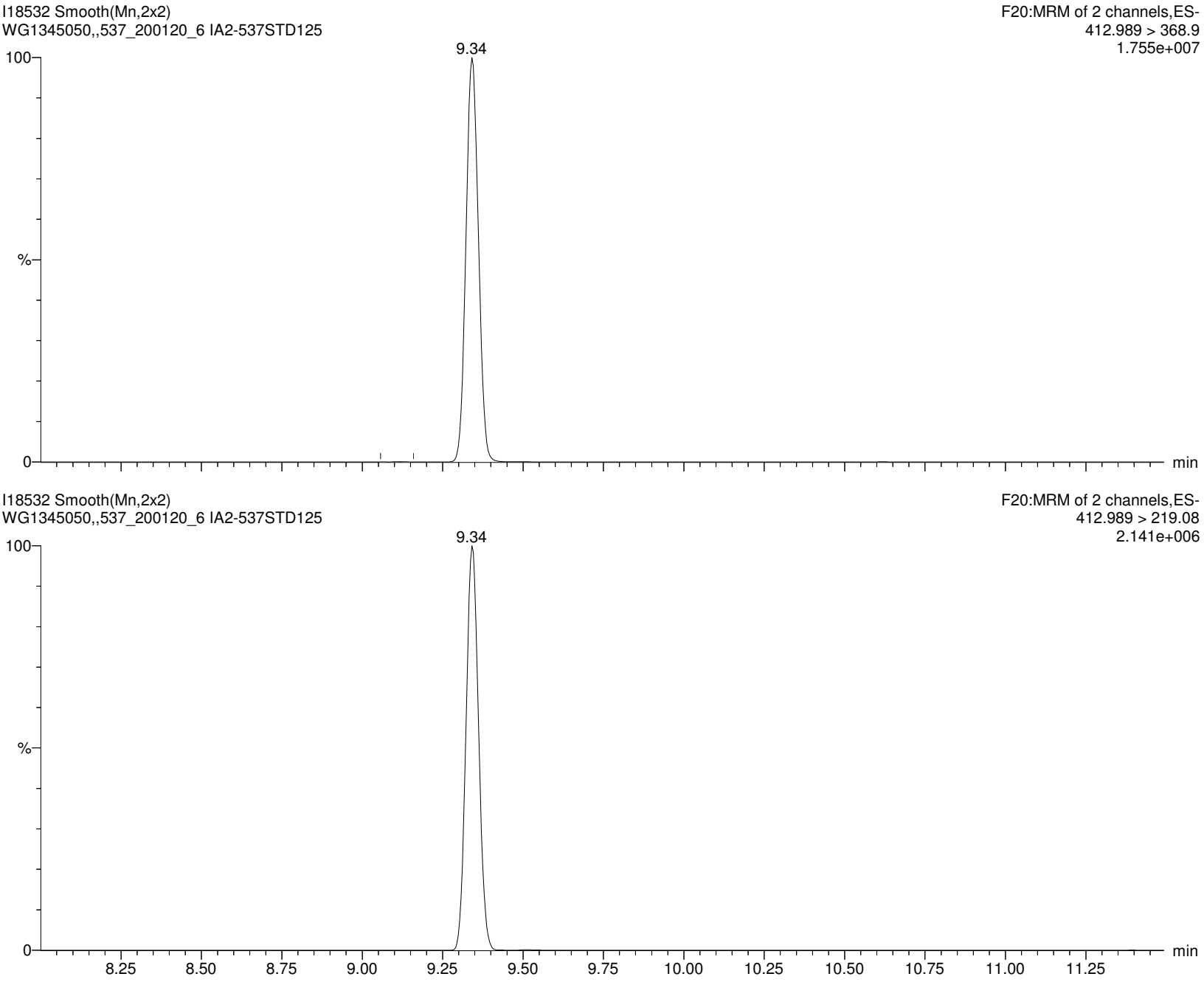

all concentration units in (ng/mL)

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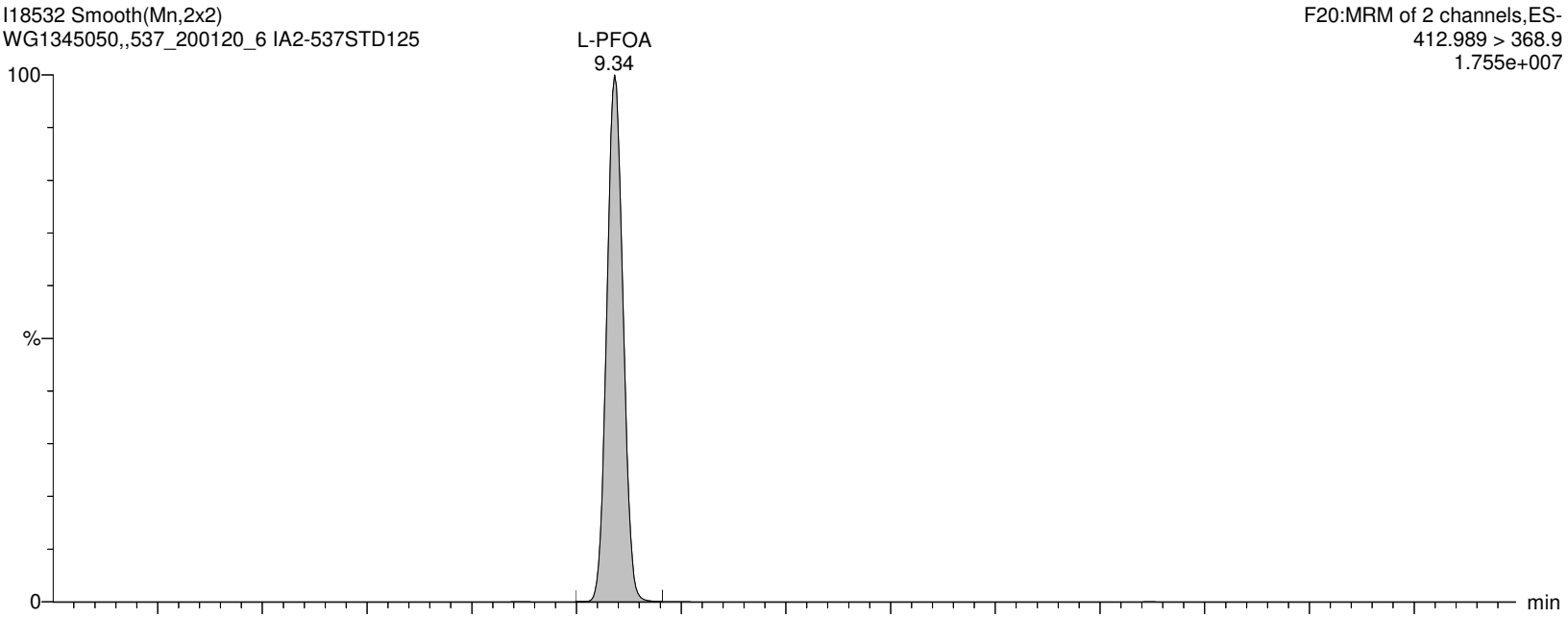

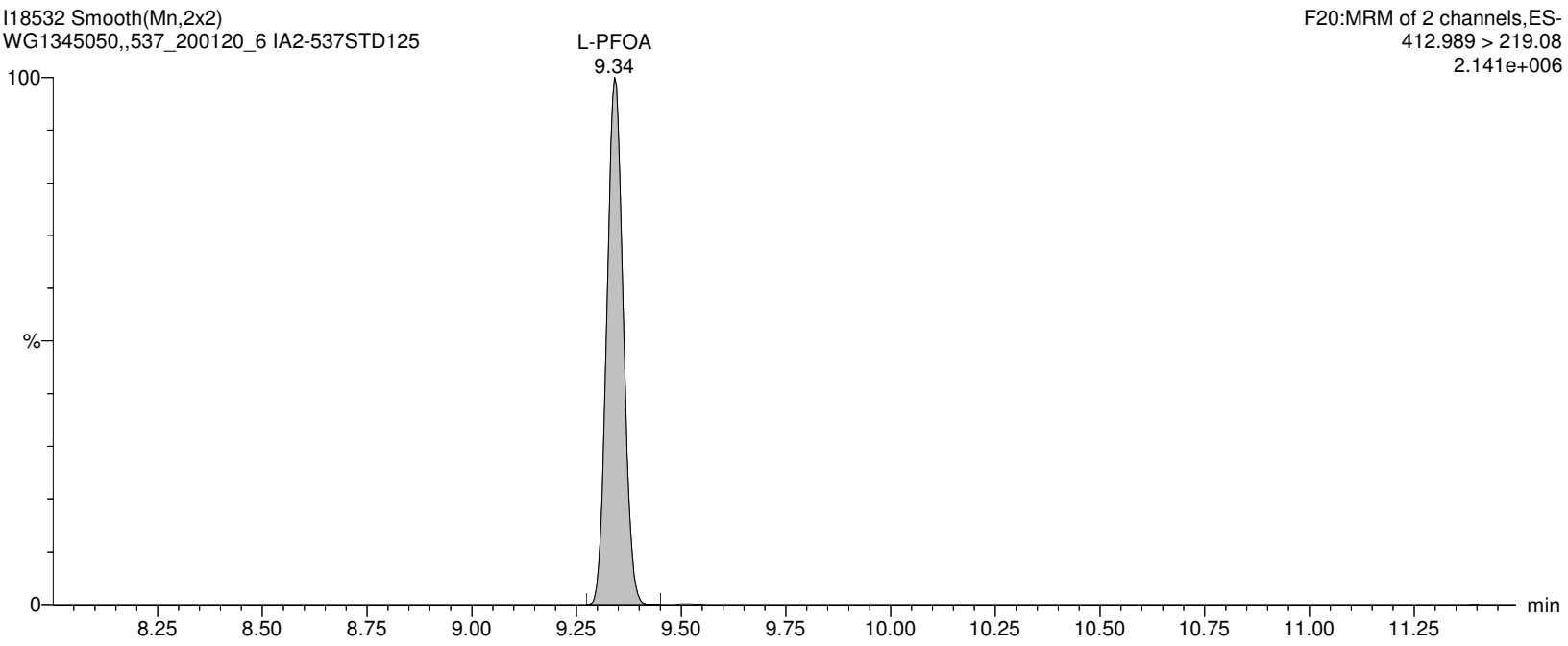

all concentration units in (ng/mL)

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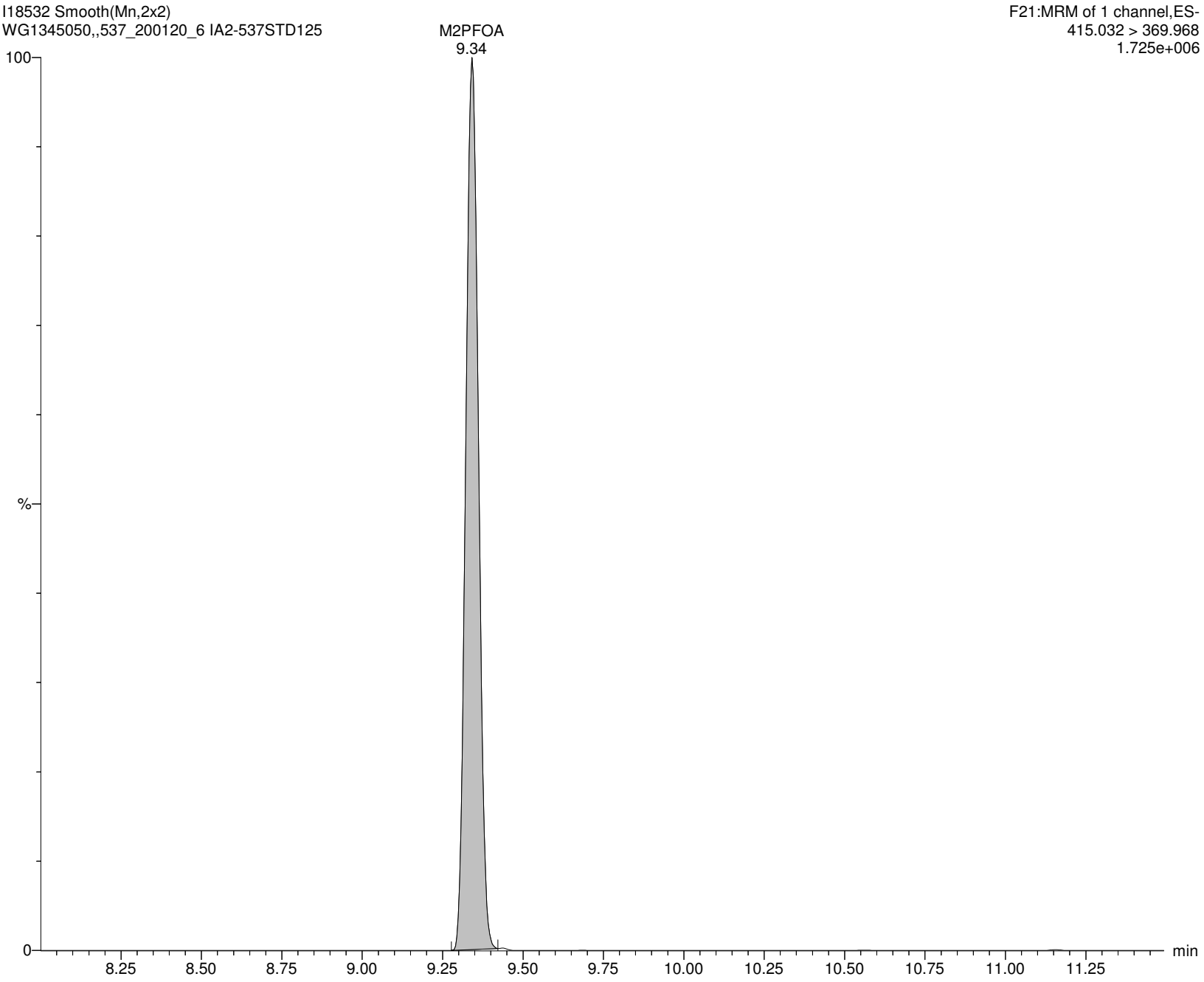

all concentration units in (ng/mL)

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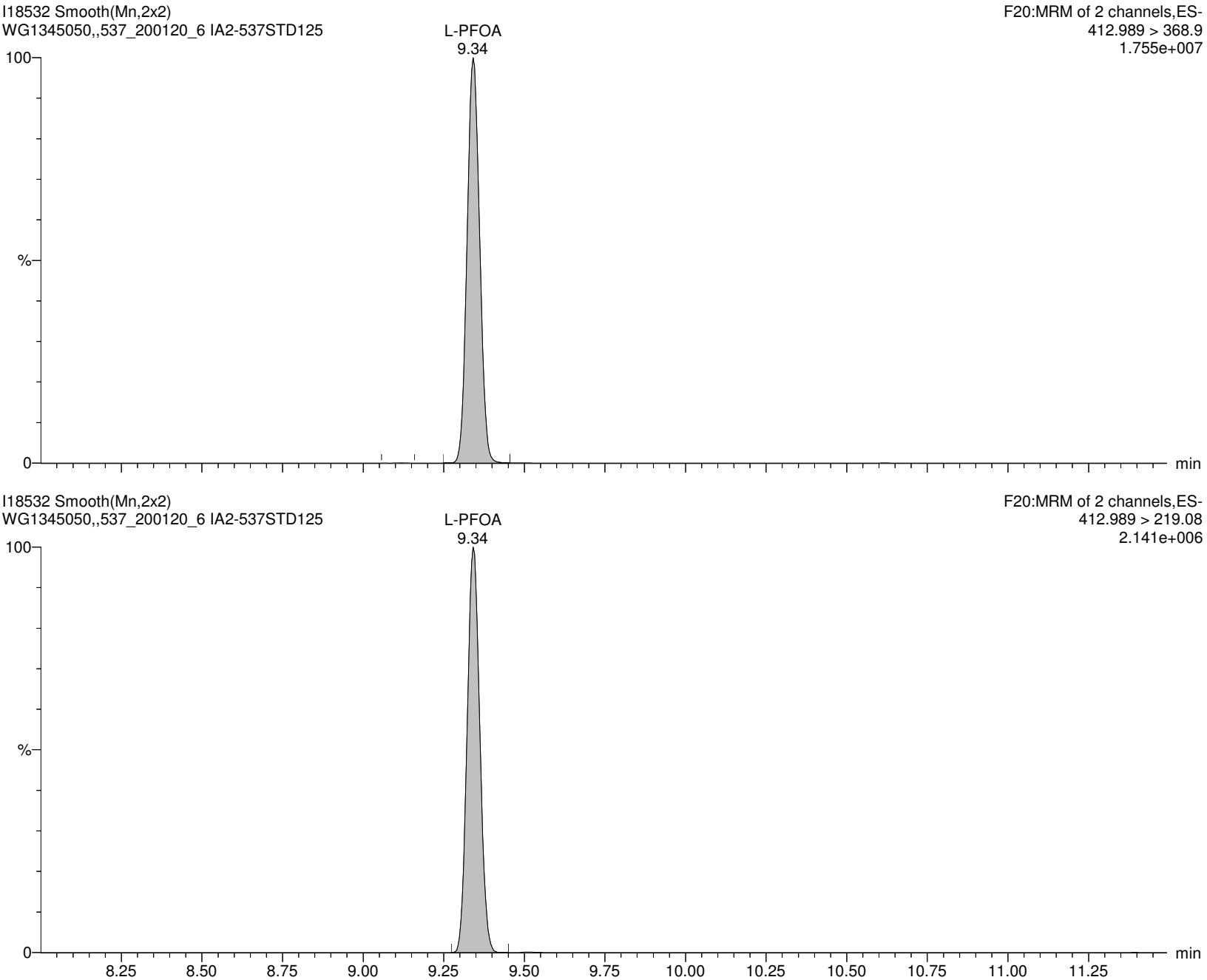

all concentration units in (ng/mL)

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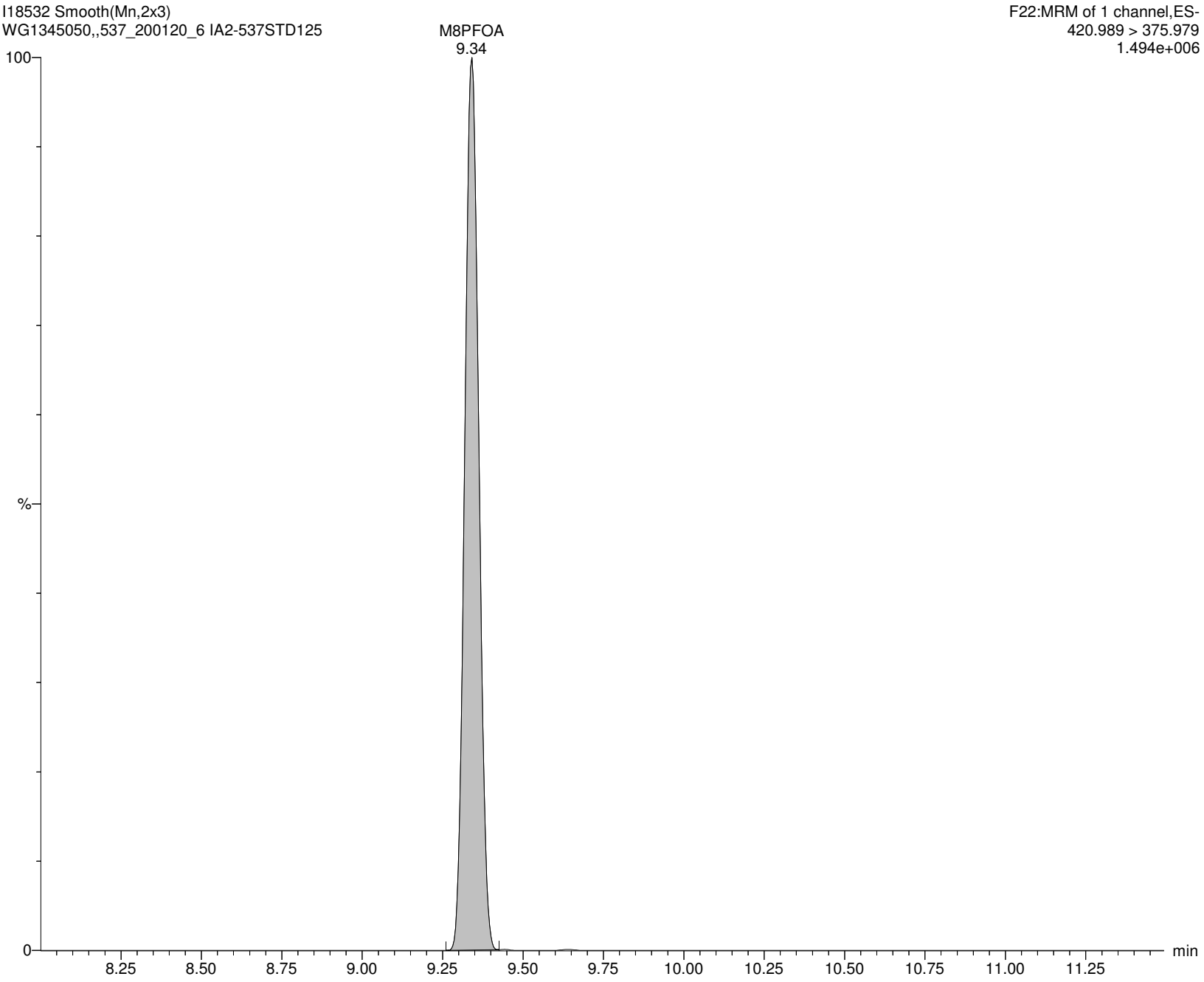

all concentration units in (ng/mL)

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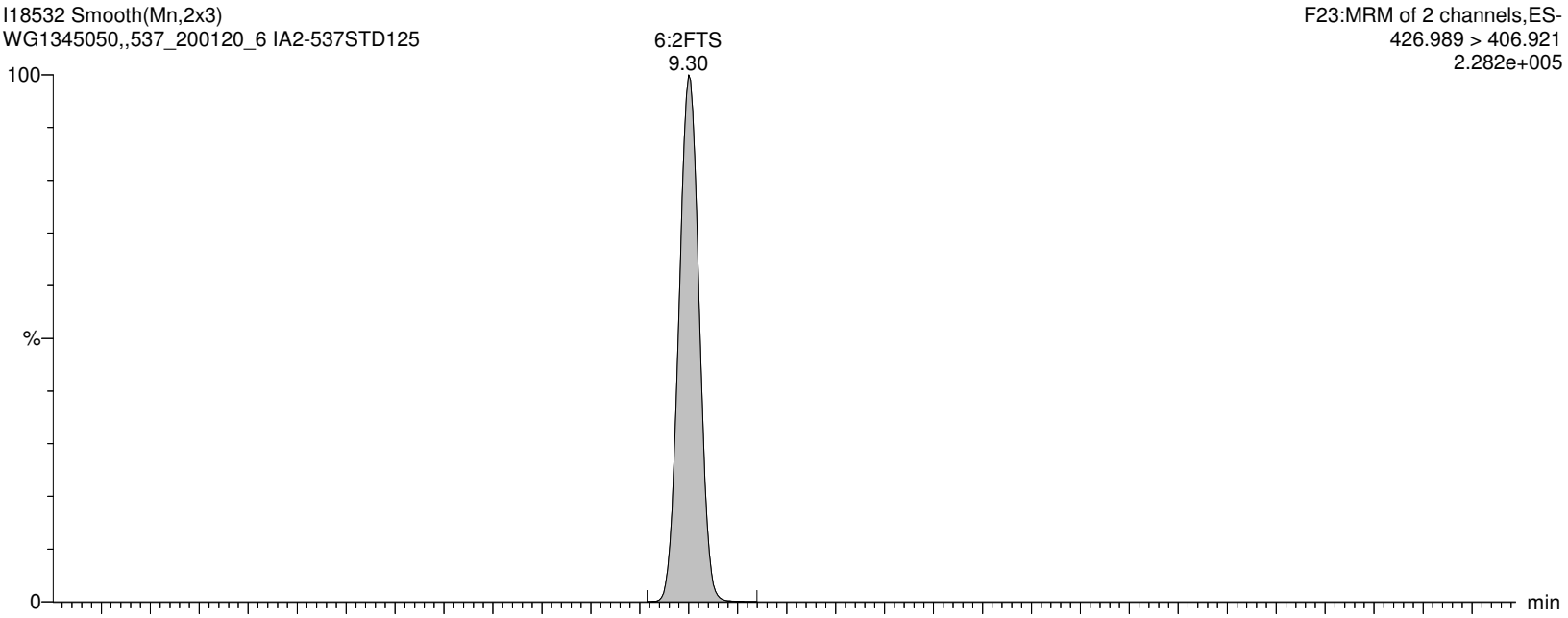

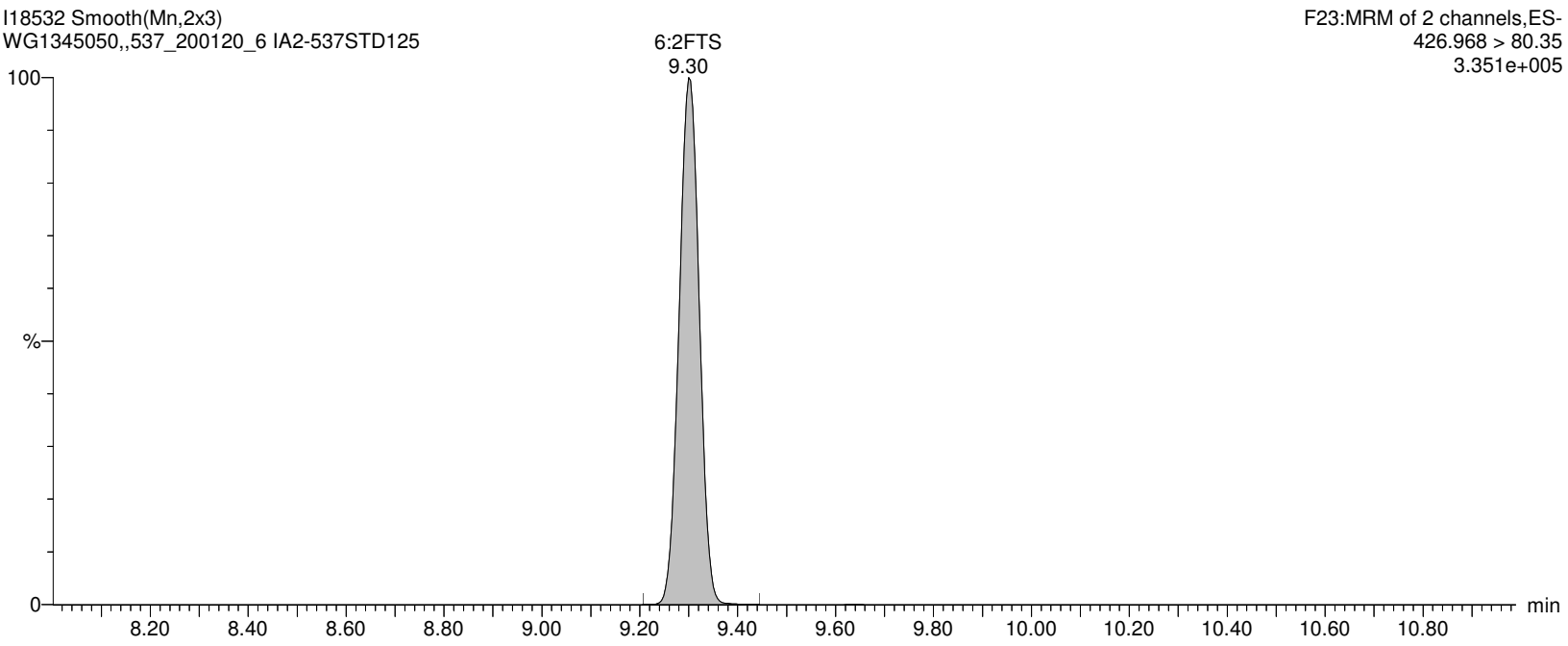

all concentration units in (ng/mL)

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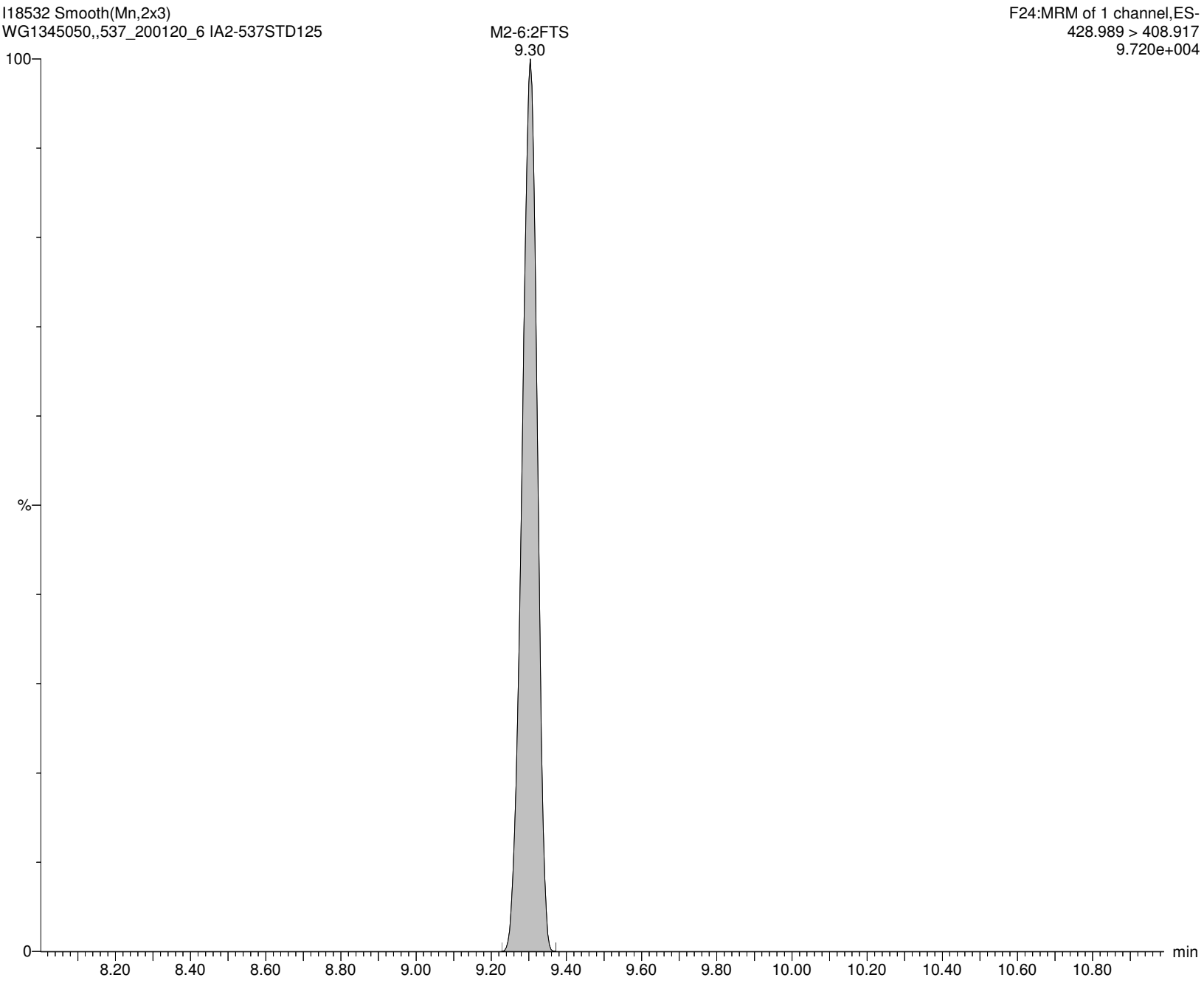

all concentration units in (ng/mL)

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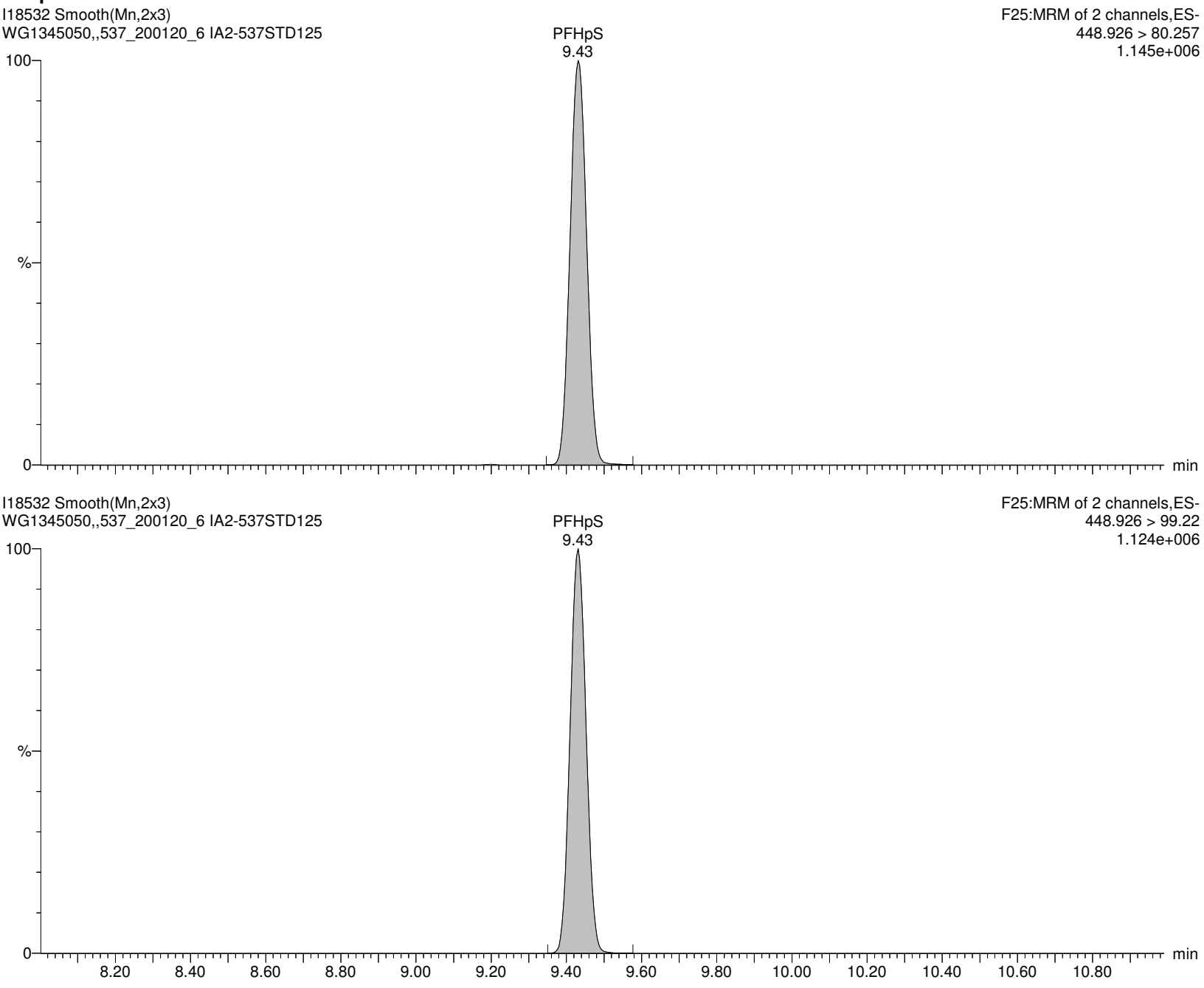

all concentration units in (ng/mL)

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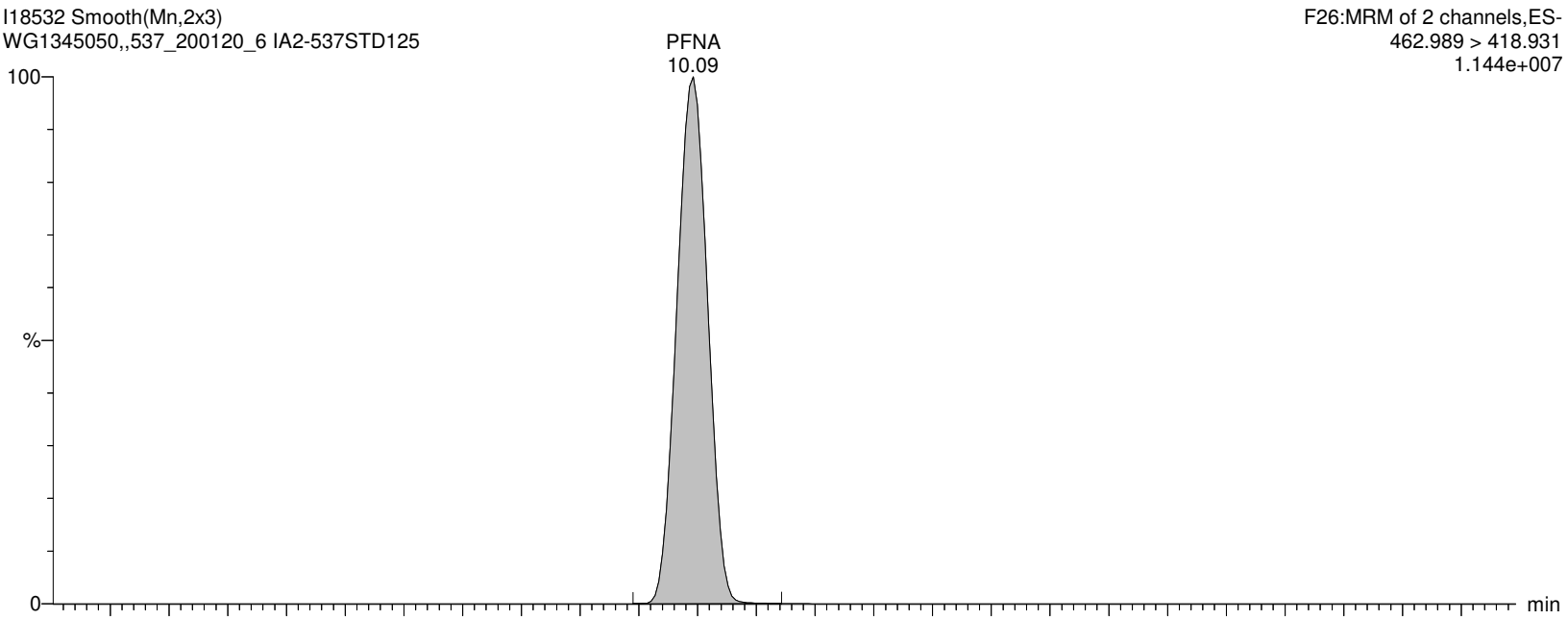

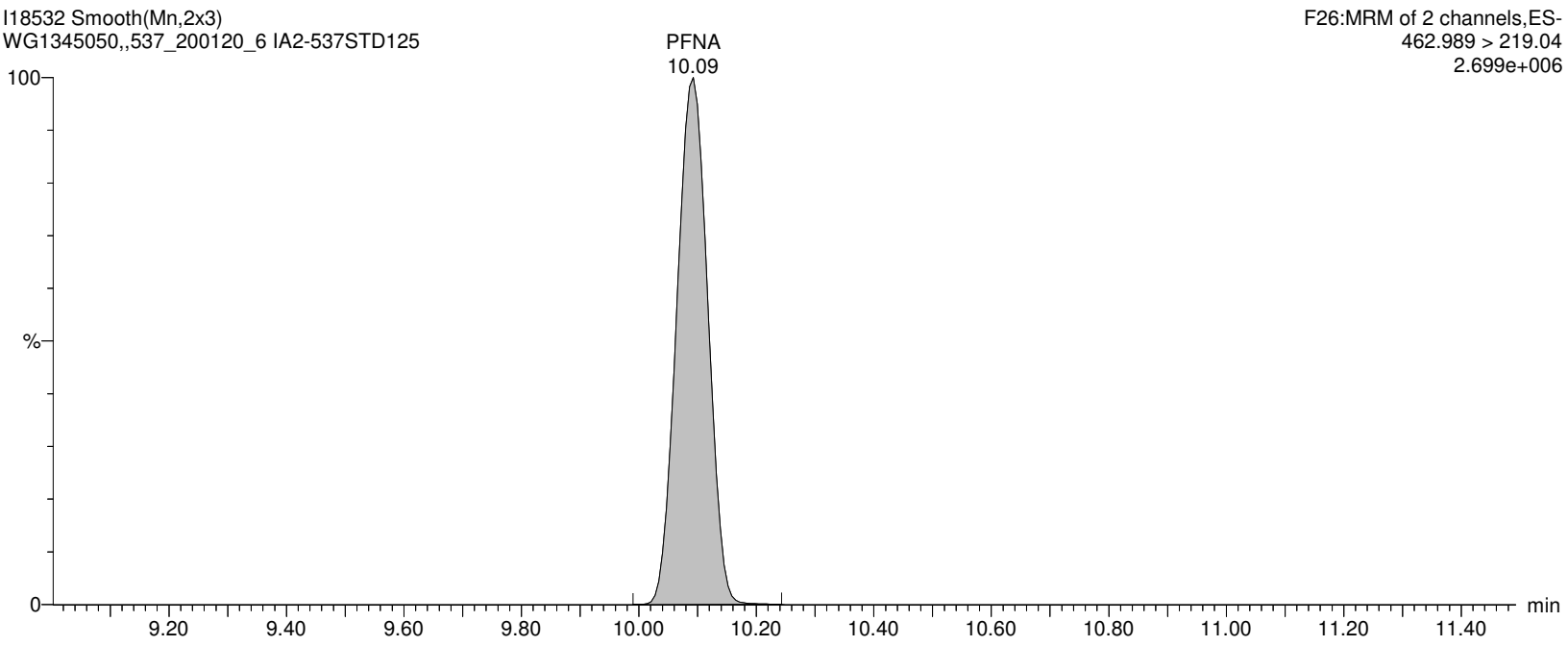

all concentration units in (ng/mL)

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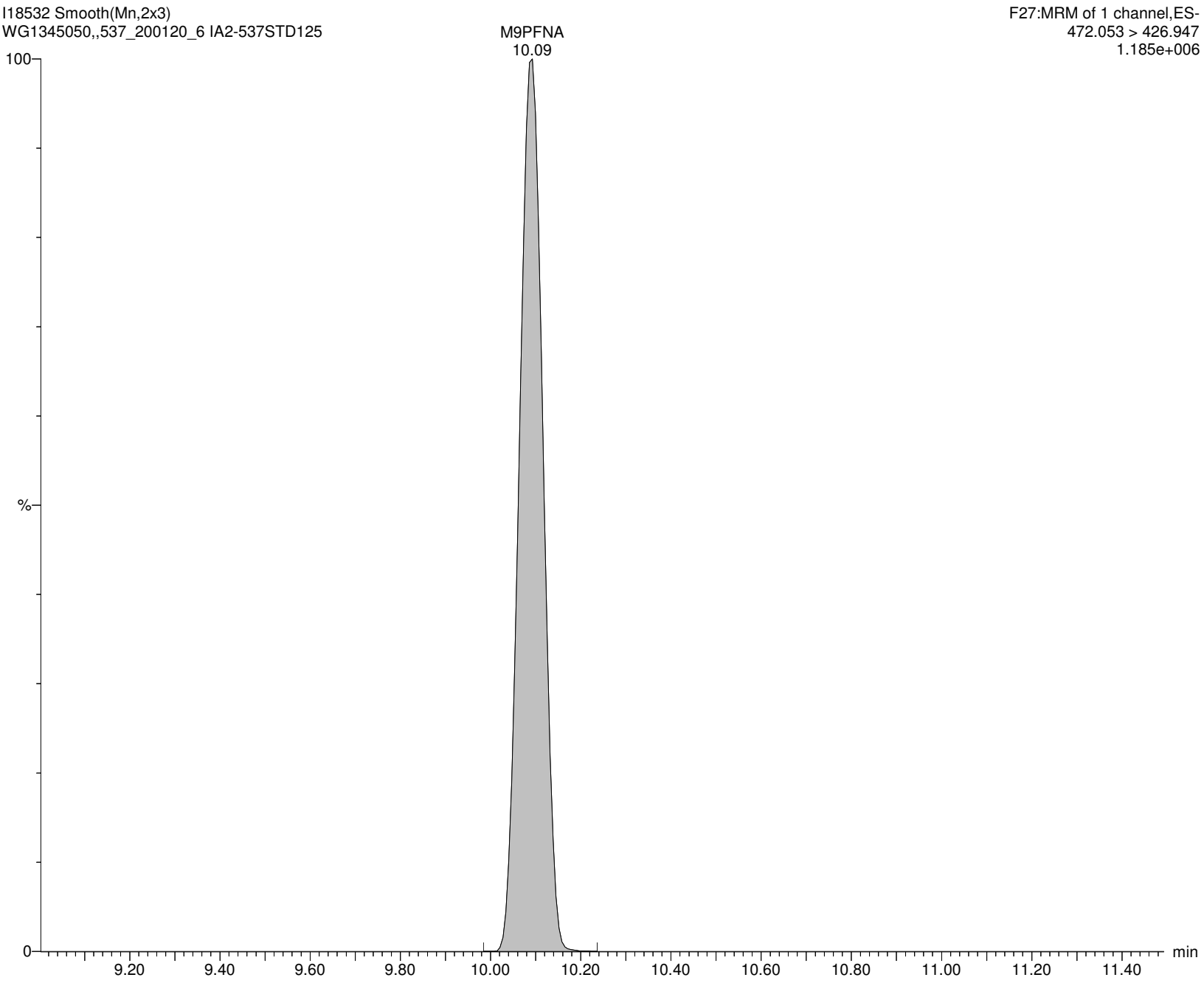

all concentration units in (ng/mL)

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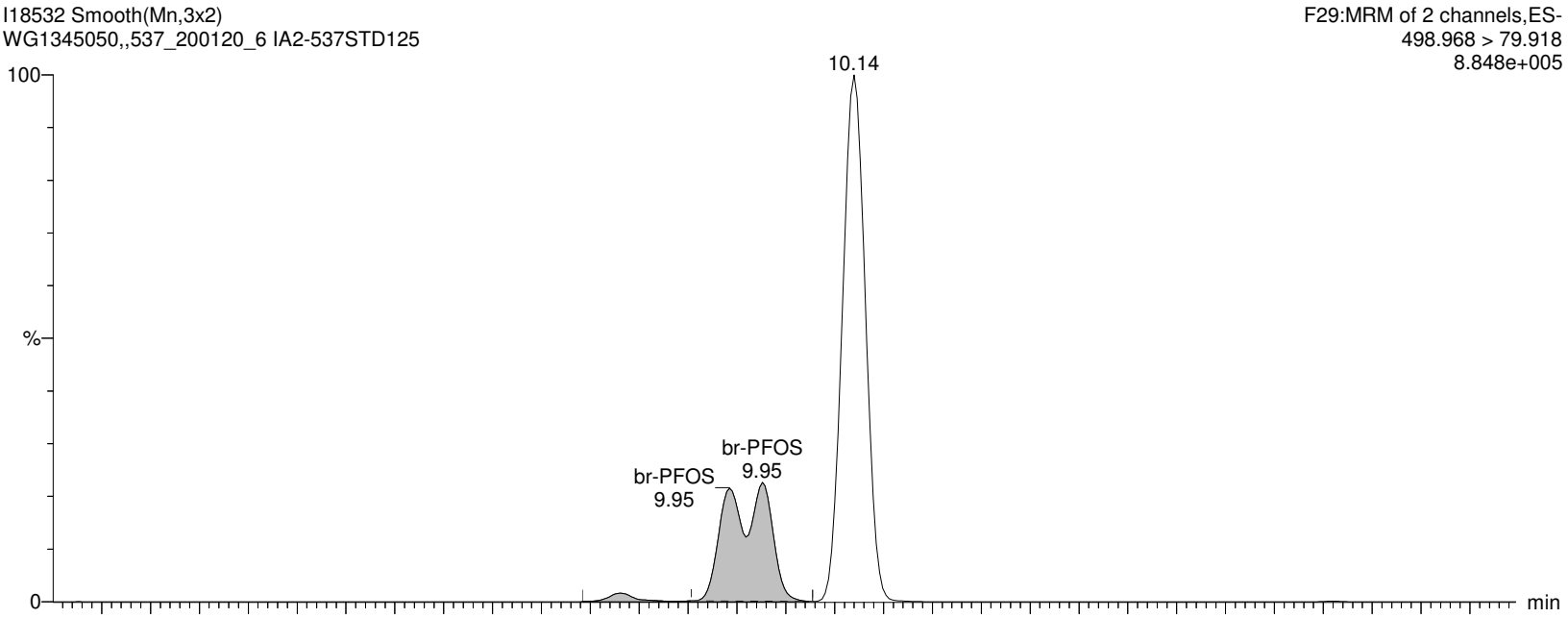

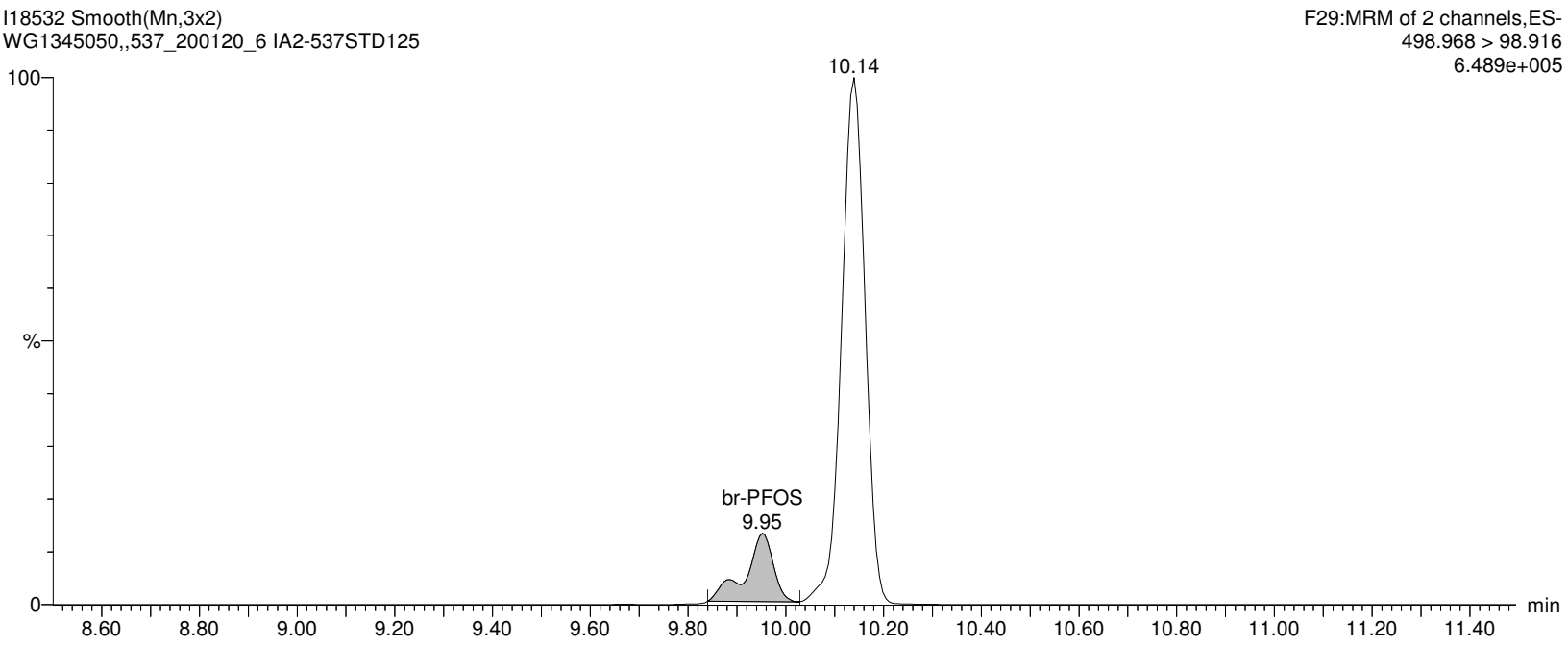

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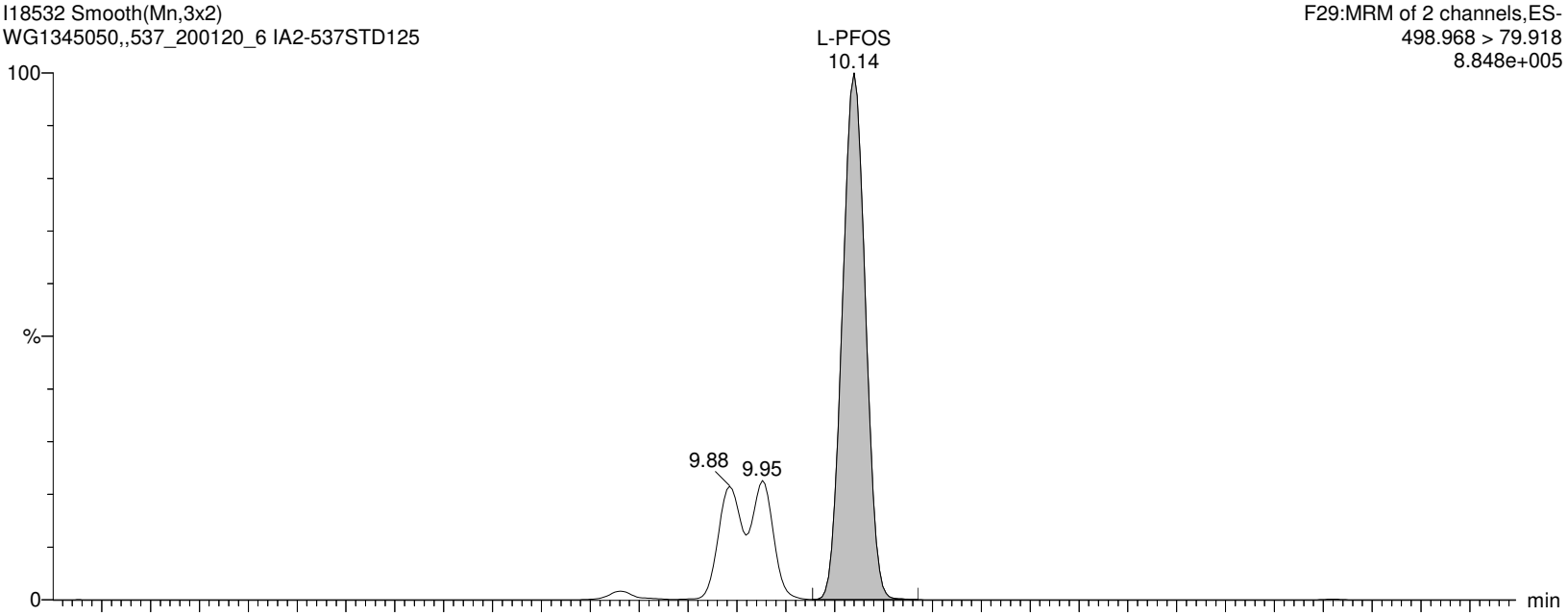

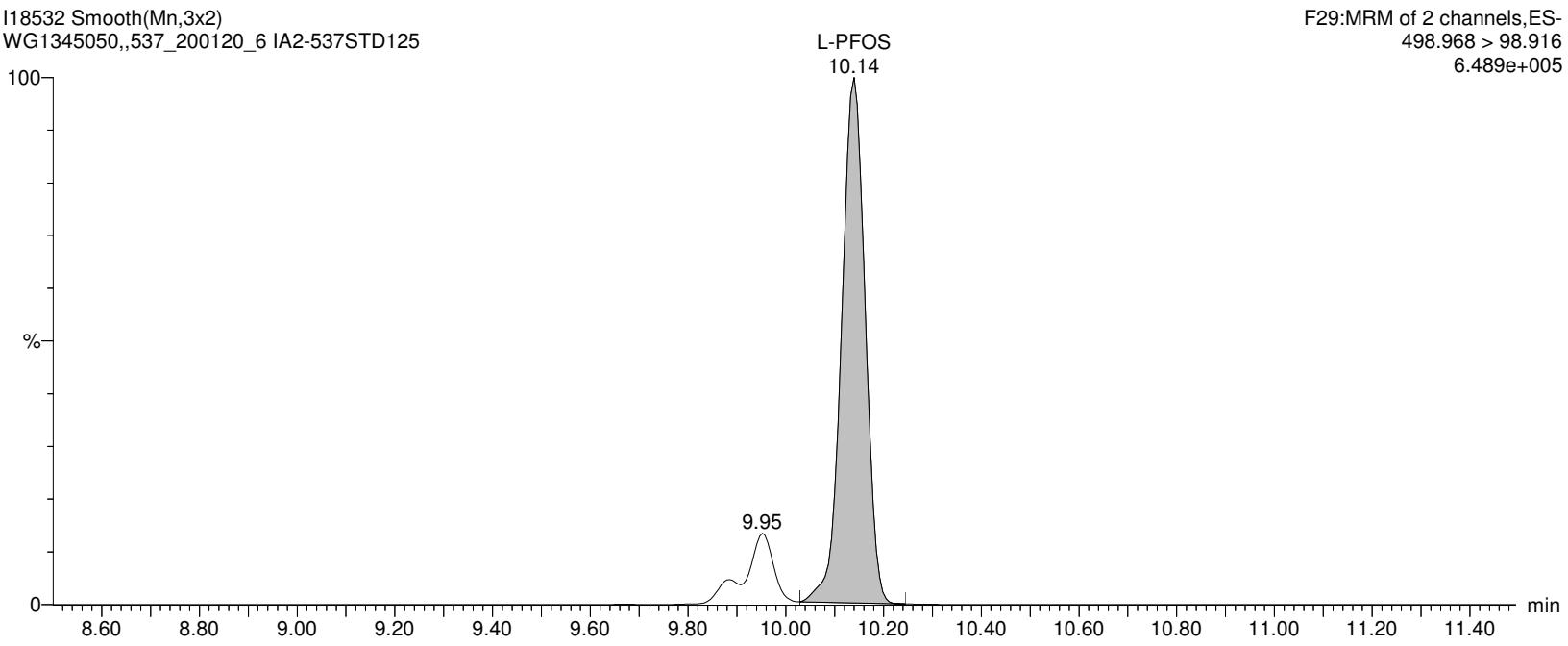

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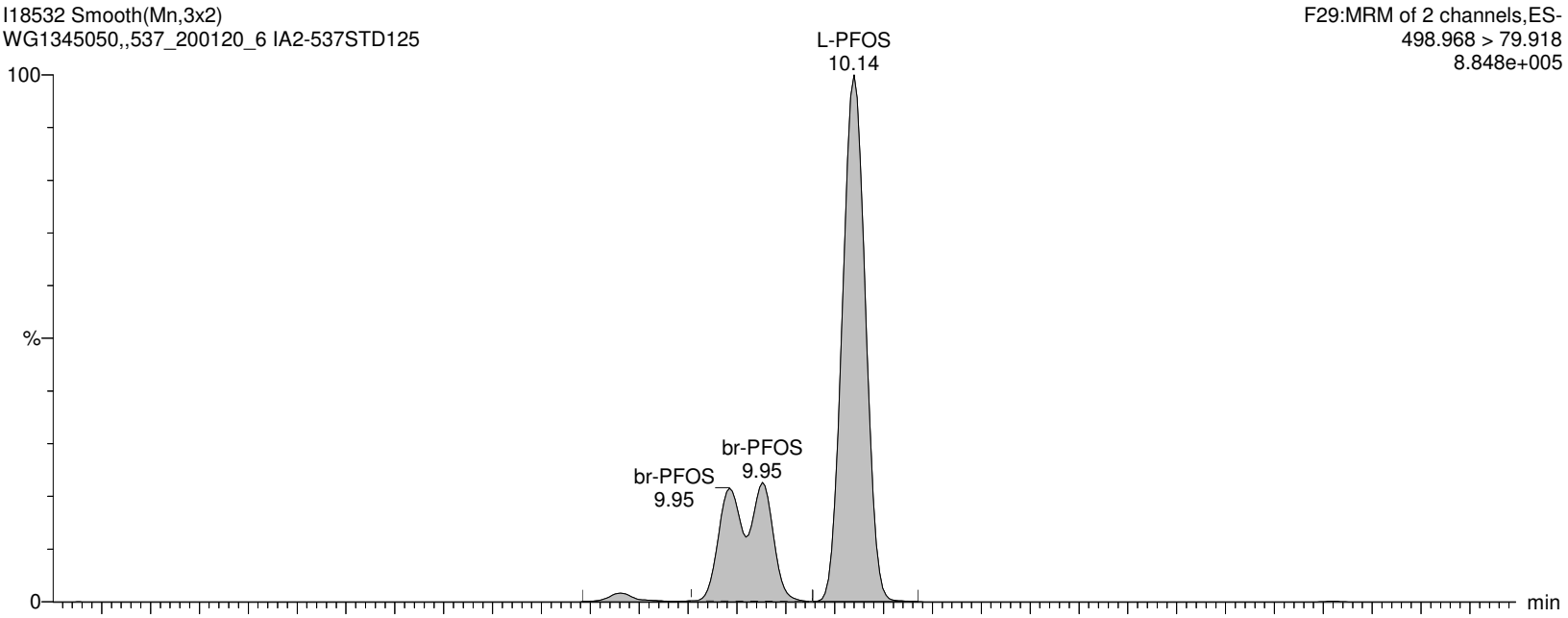

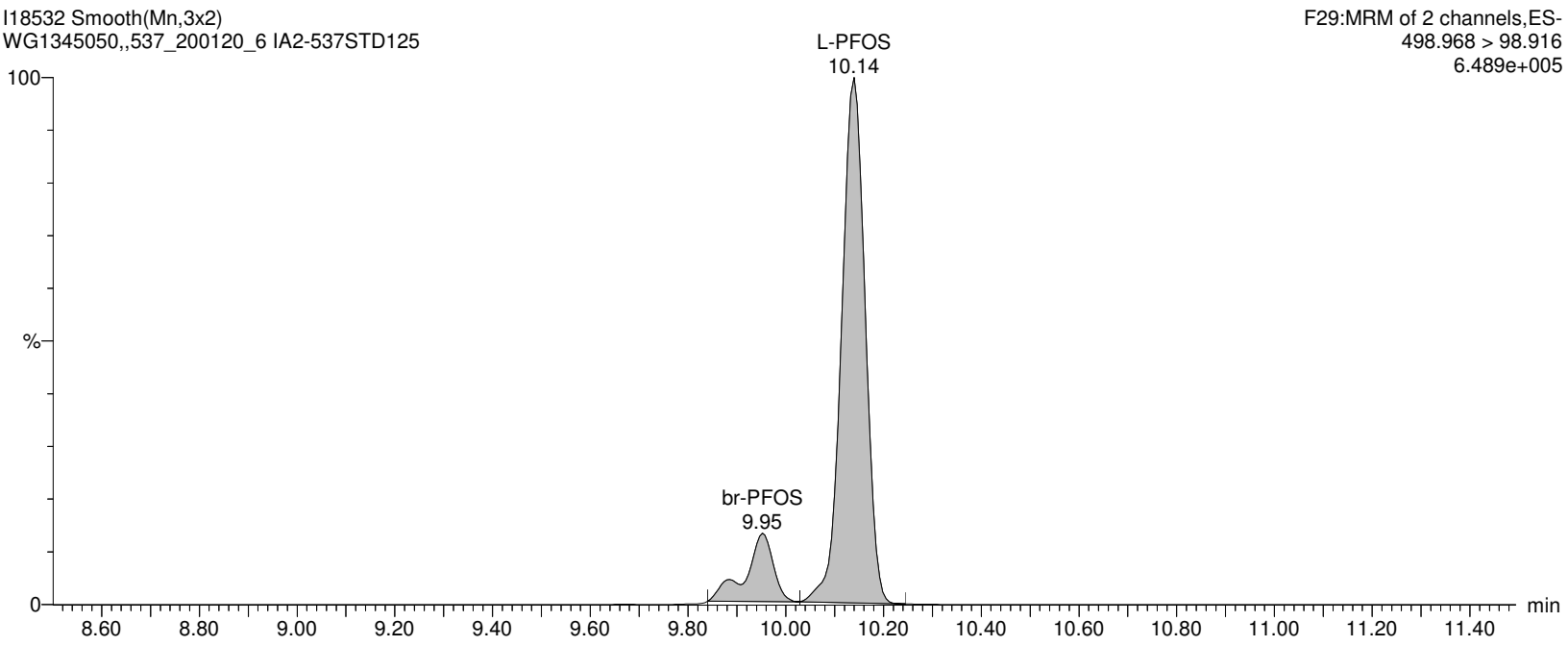

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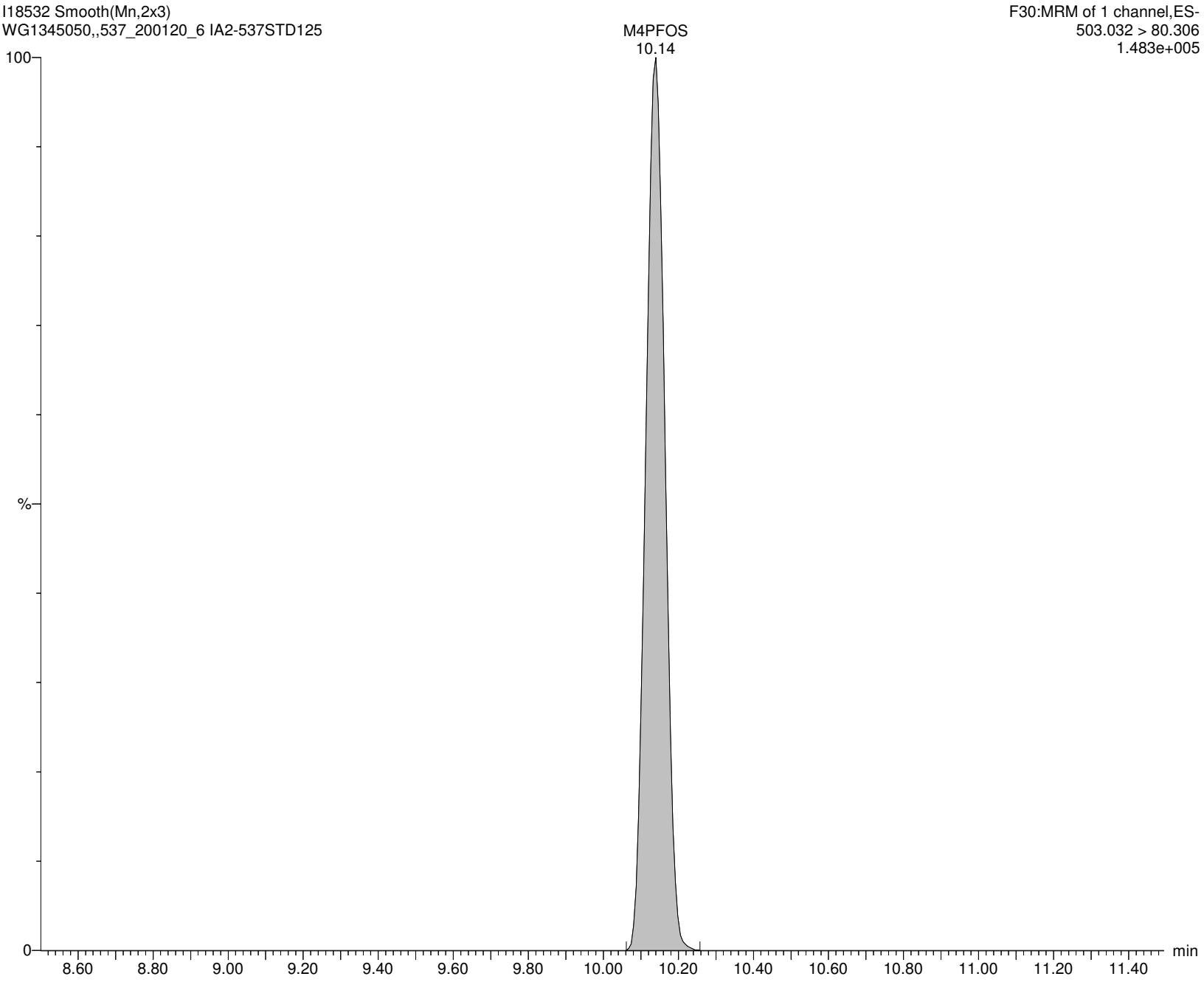

all concentration units in (ng/mL)

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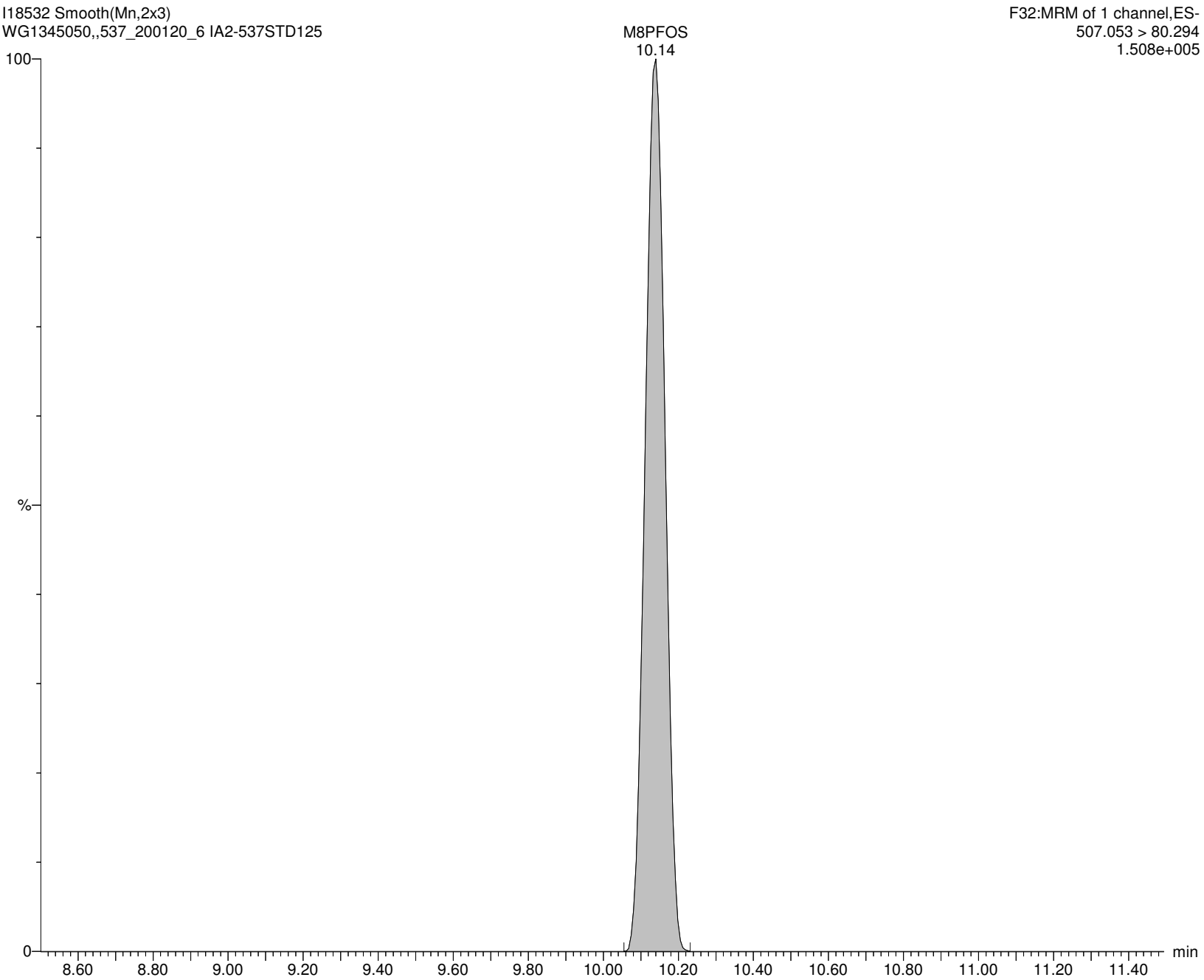

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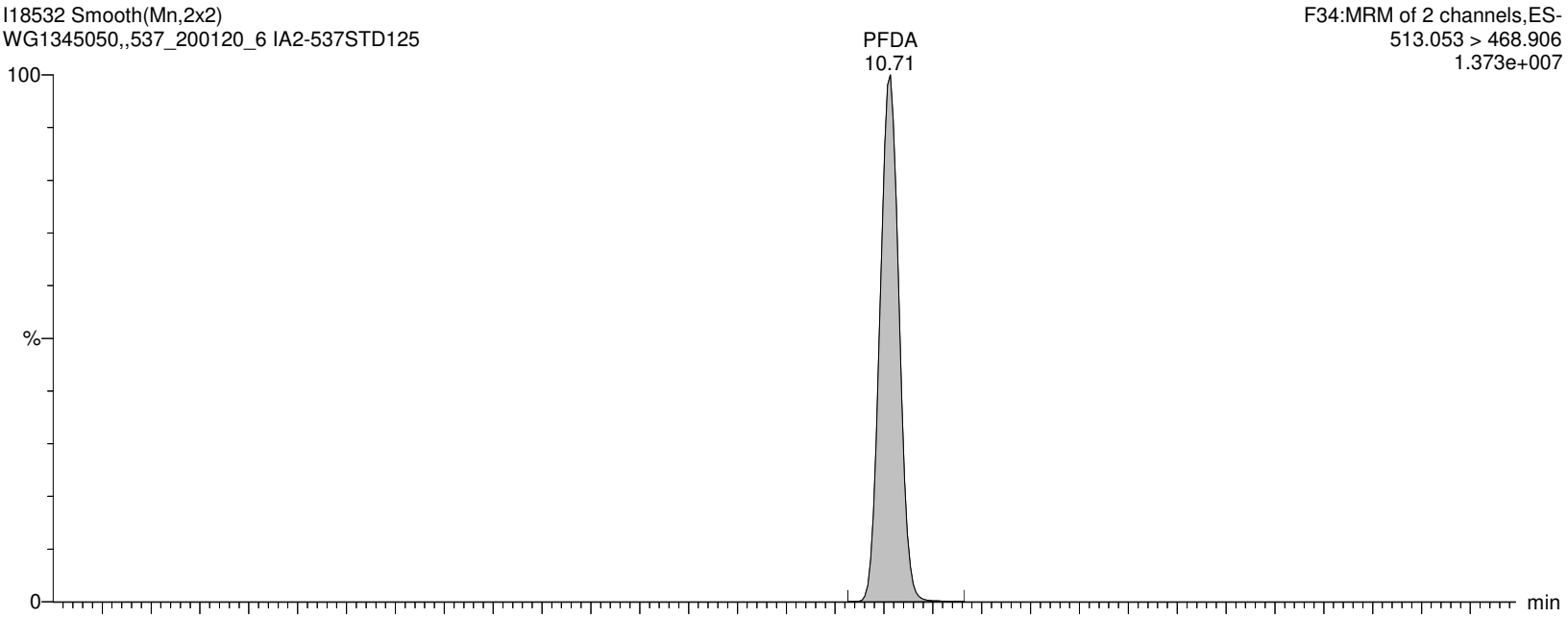

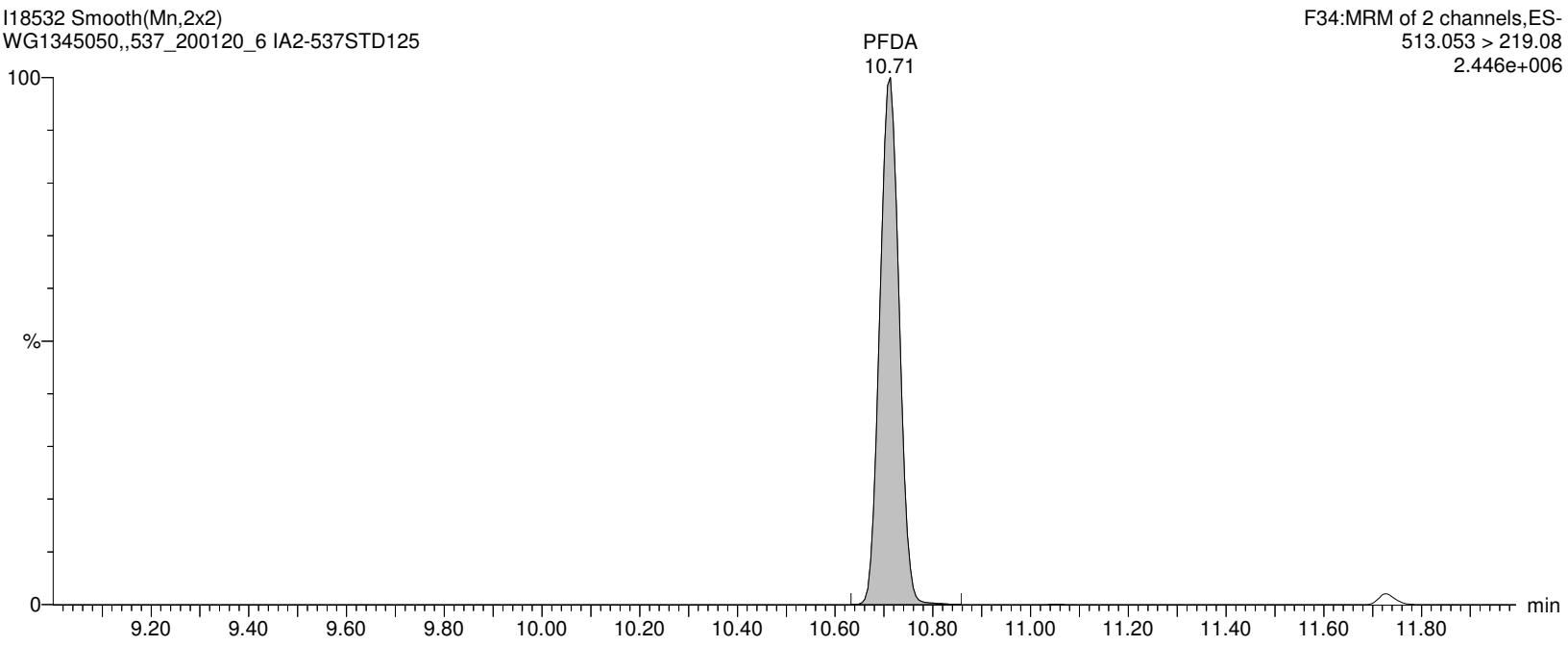

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Printed: Friday, February 28, 2020 09:27:52 Eastern Standard Time

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Date: 27-Feb-2020
Time: 14:51:56
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Vial: 1:A,7
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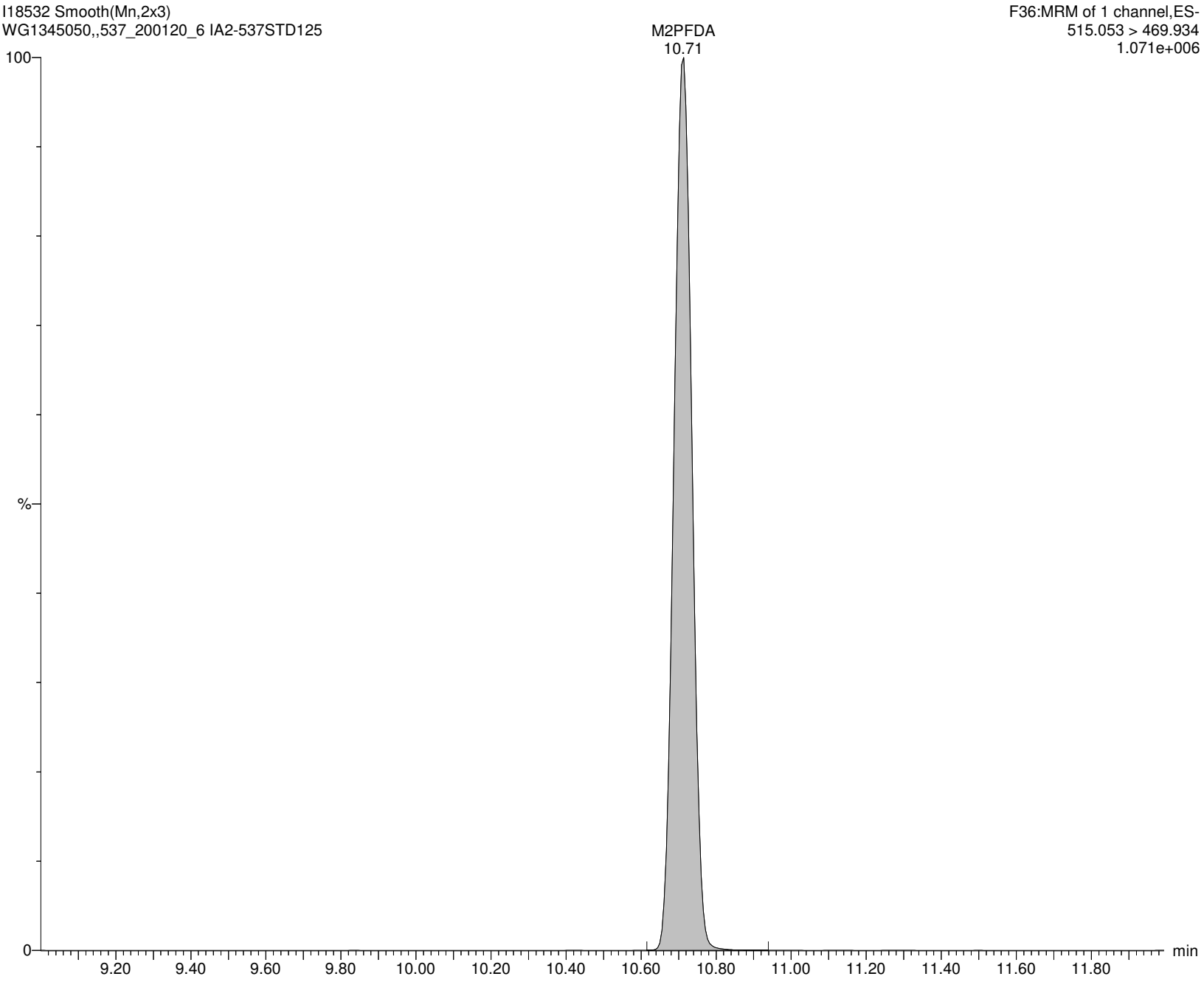

all concentration units in (ng/mL)

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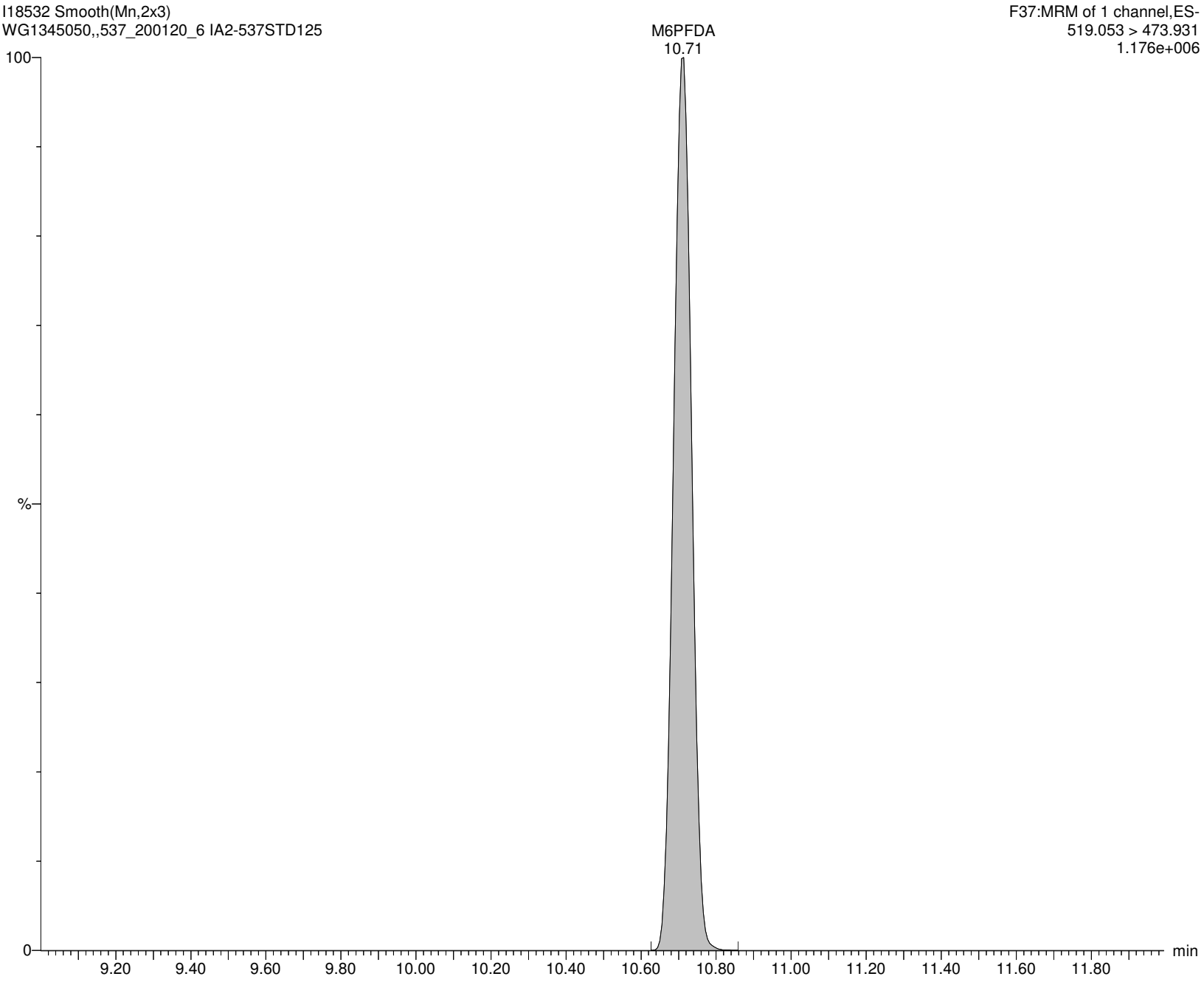

all concentration units in (ng/mL)

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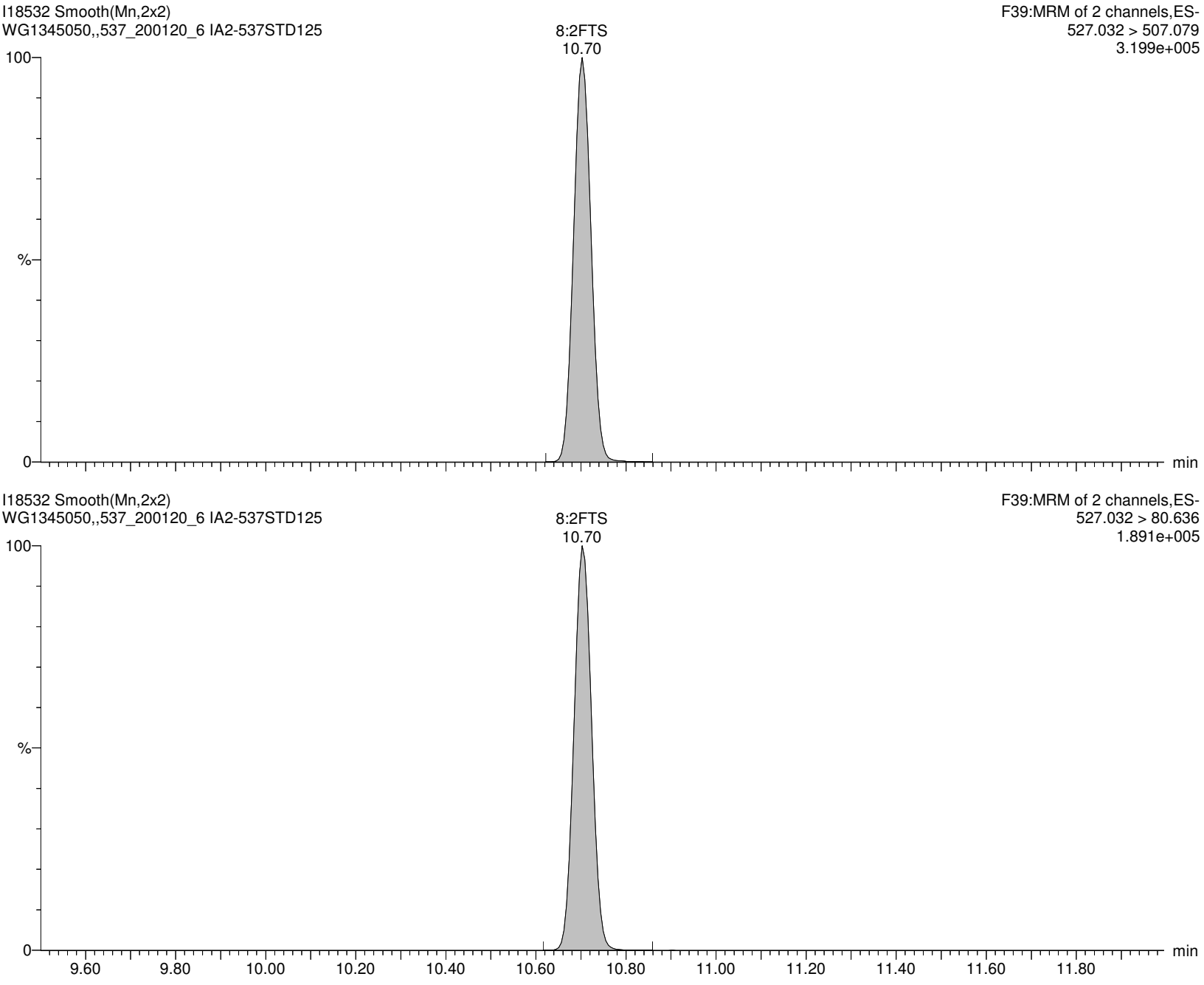
8:2FTS



all concentration units in (ng/mL)

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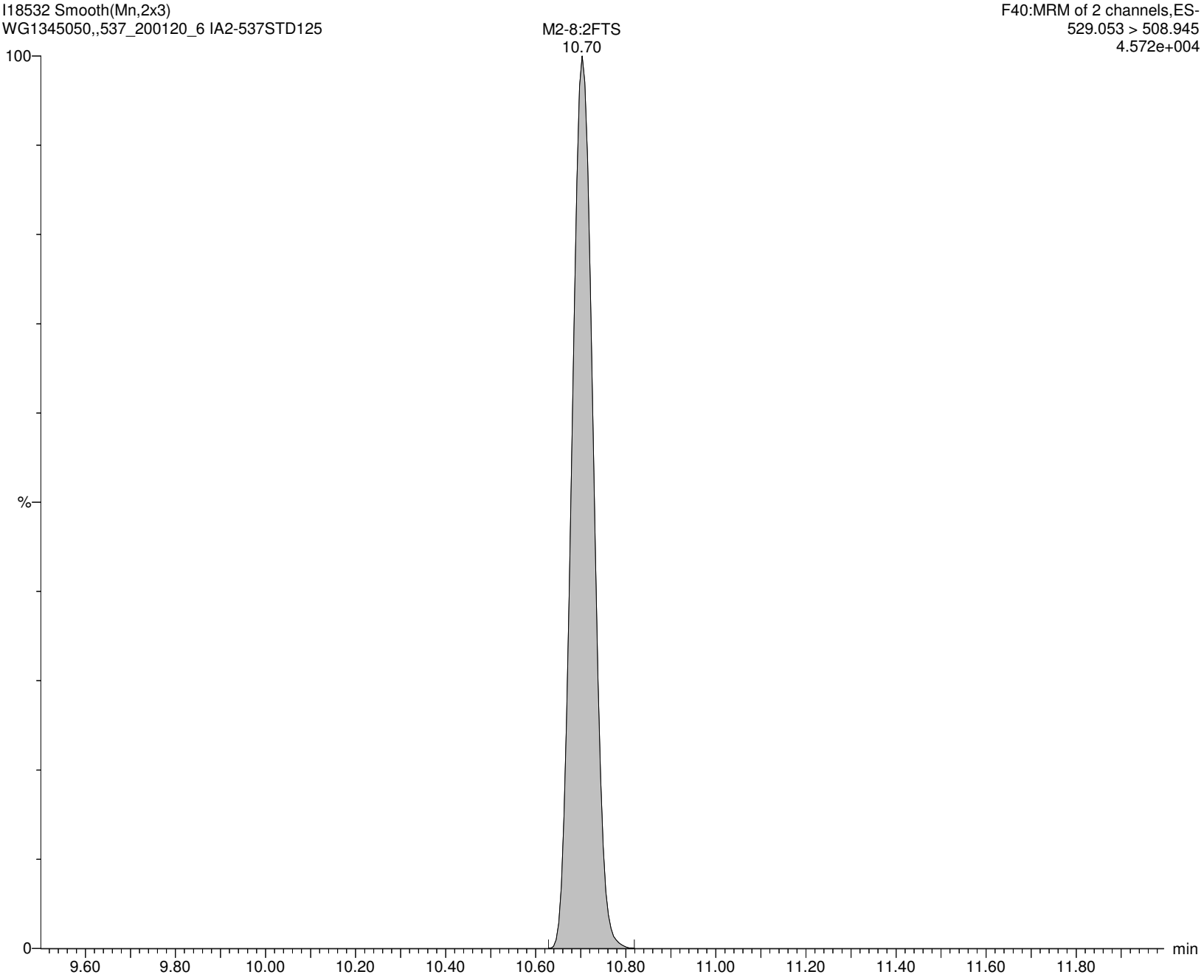

all concentration units in (ng/mL)

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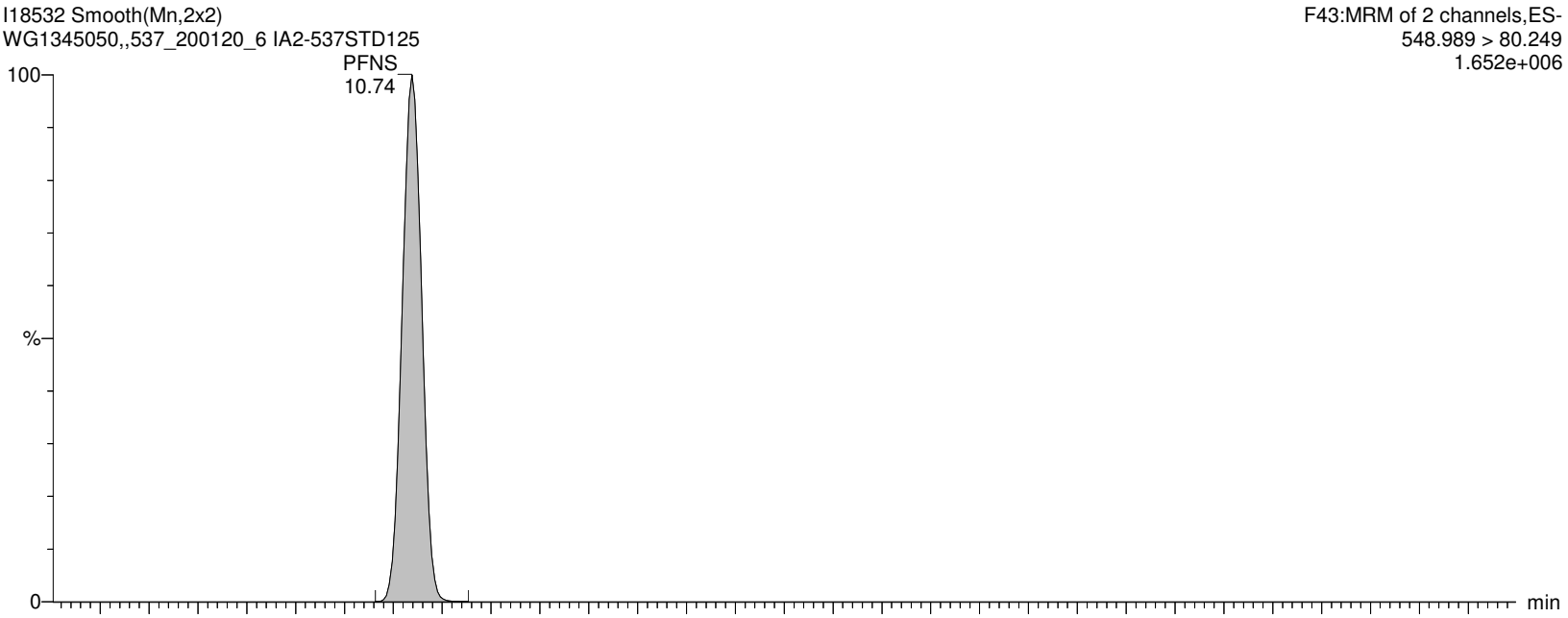

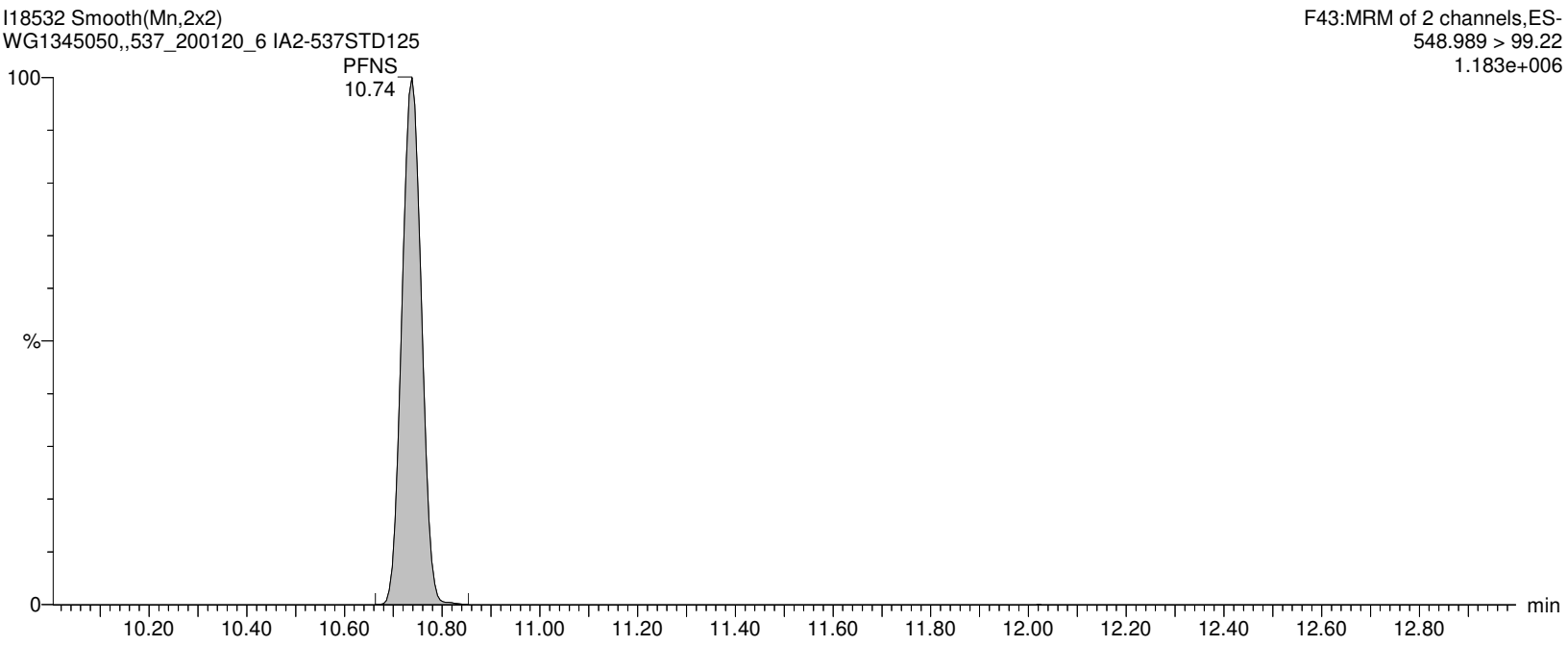

all concentration units in (ng/mL)

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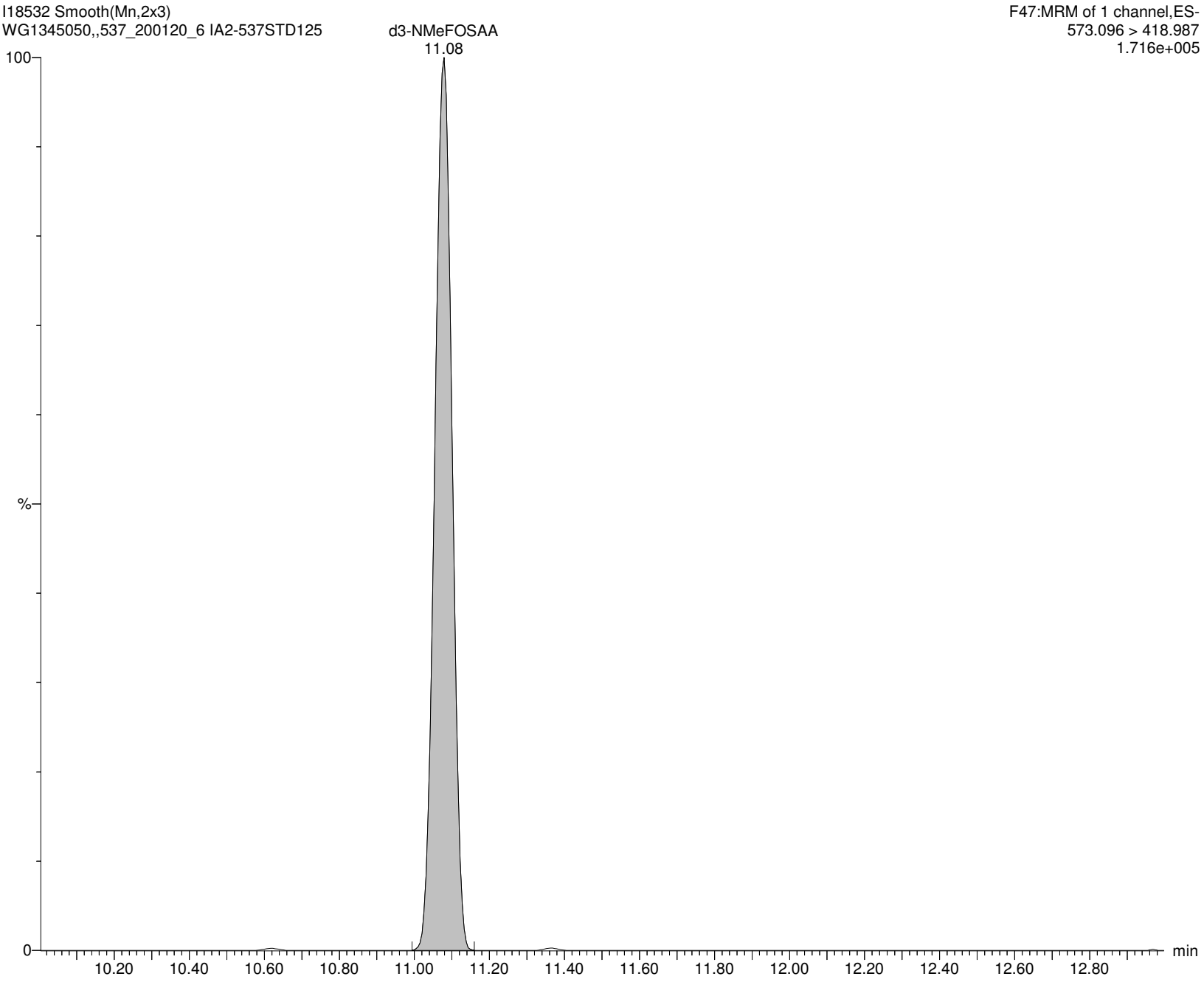

all concentration units in (ng/mL)

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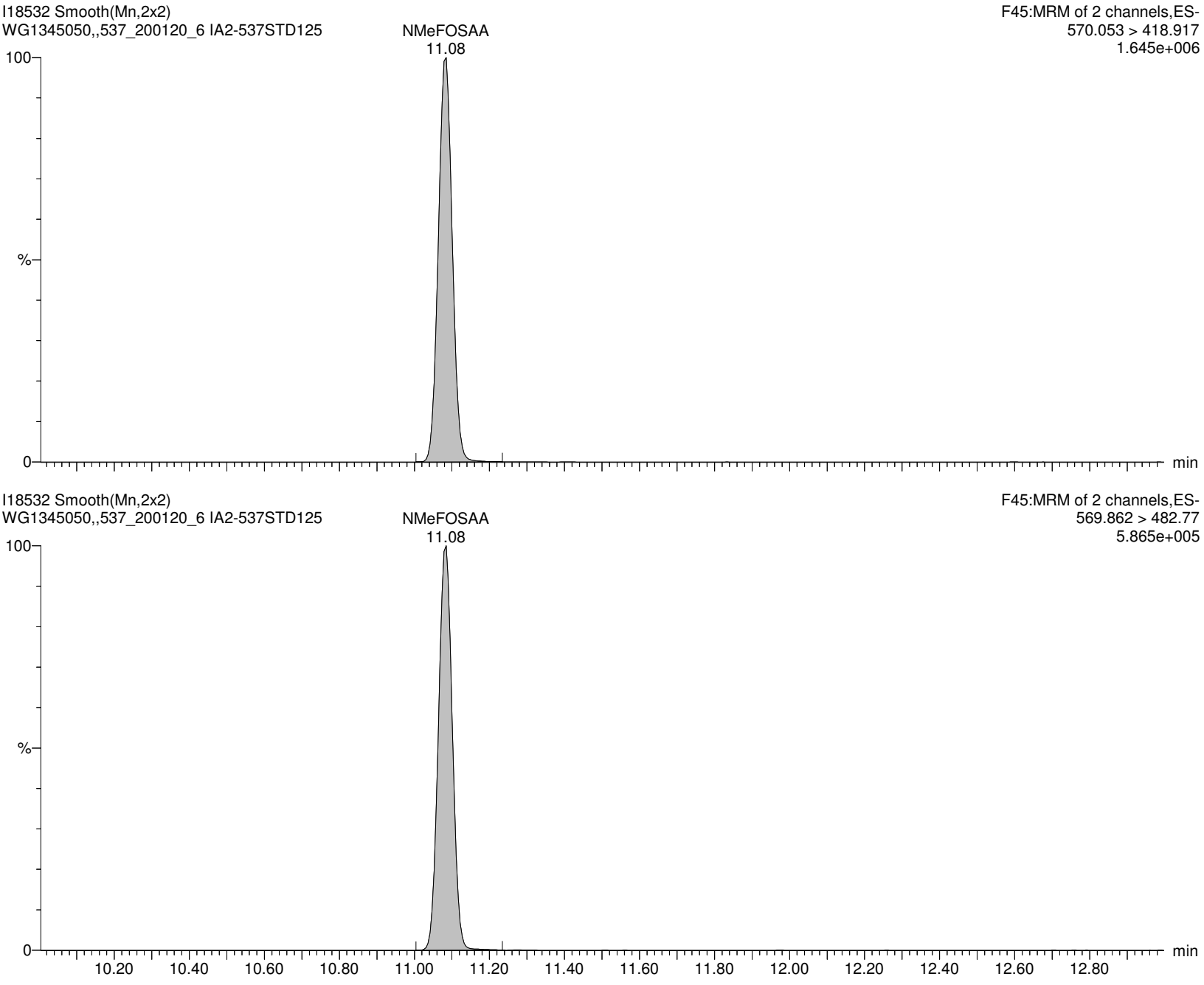

all concentration units in (ng/mL)

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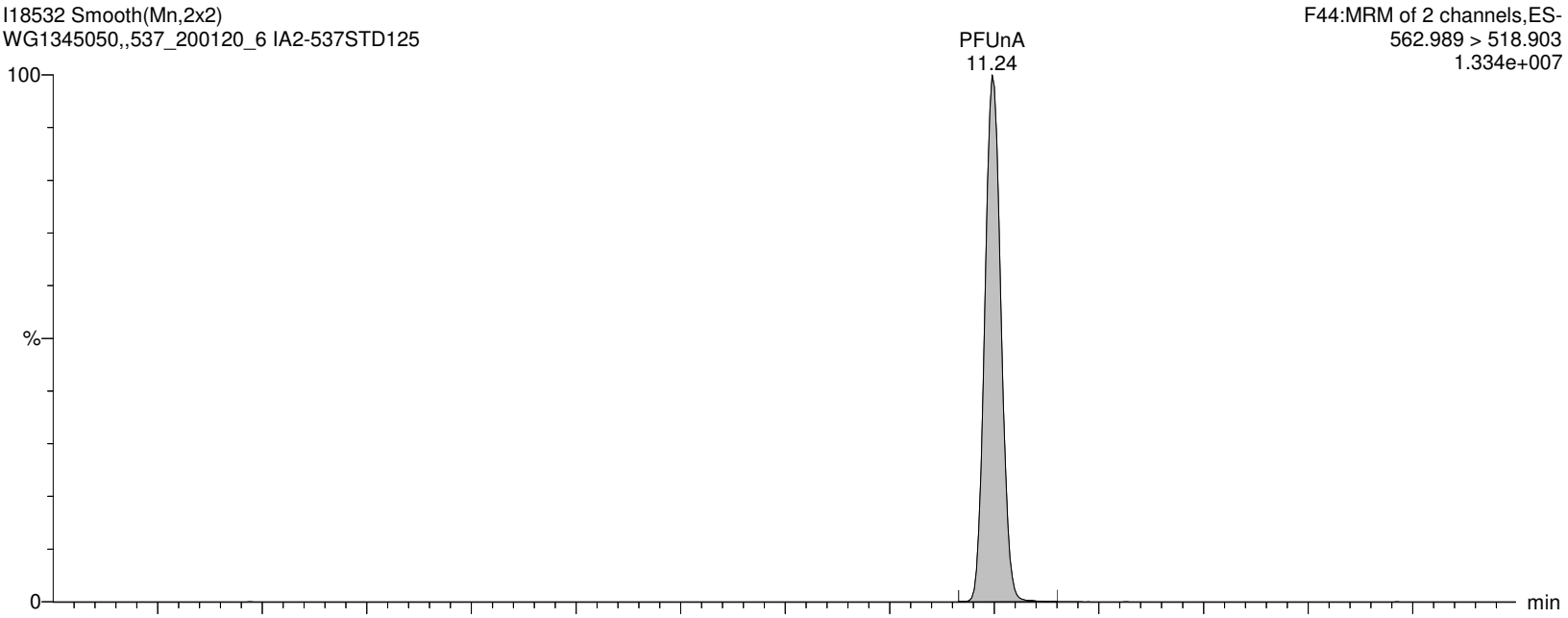

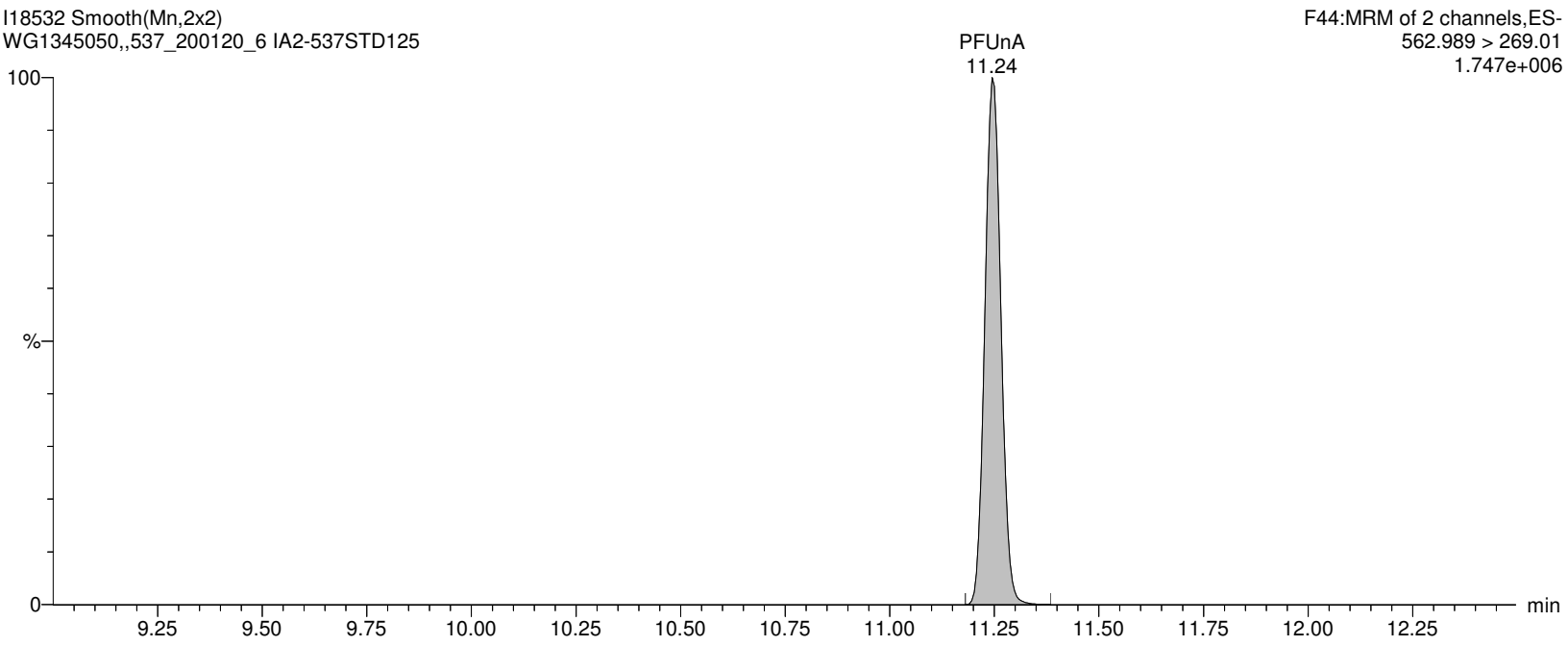

all concentration units in (ng/mL)

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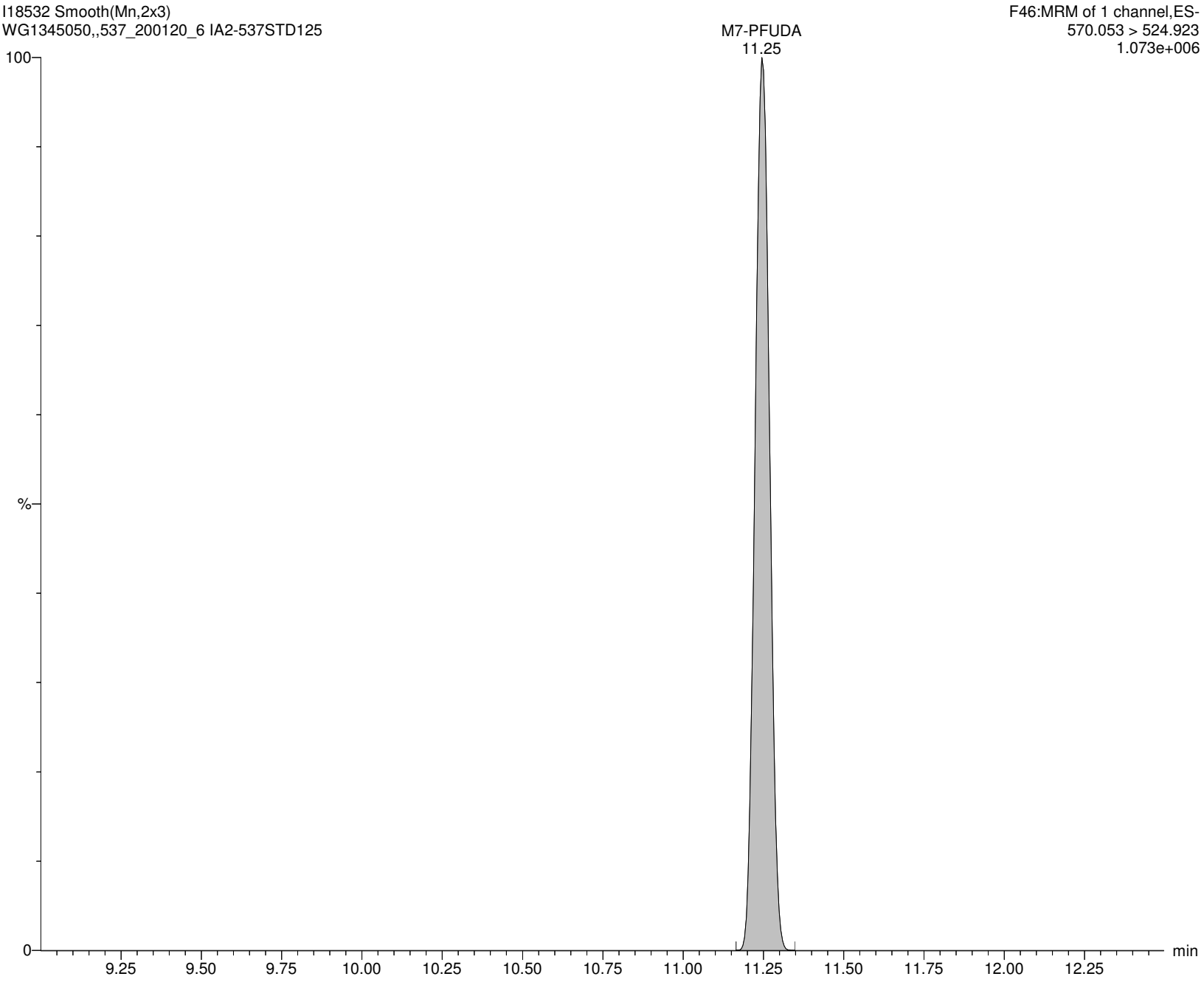
M7-PFUDA



all concentration units in (ng/mL)

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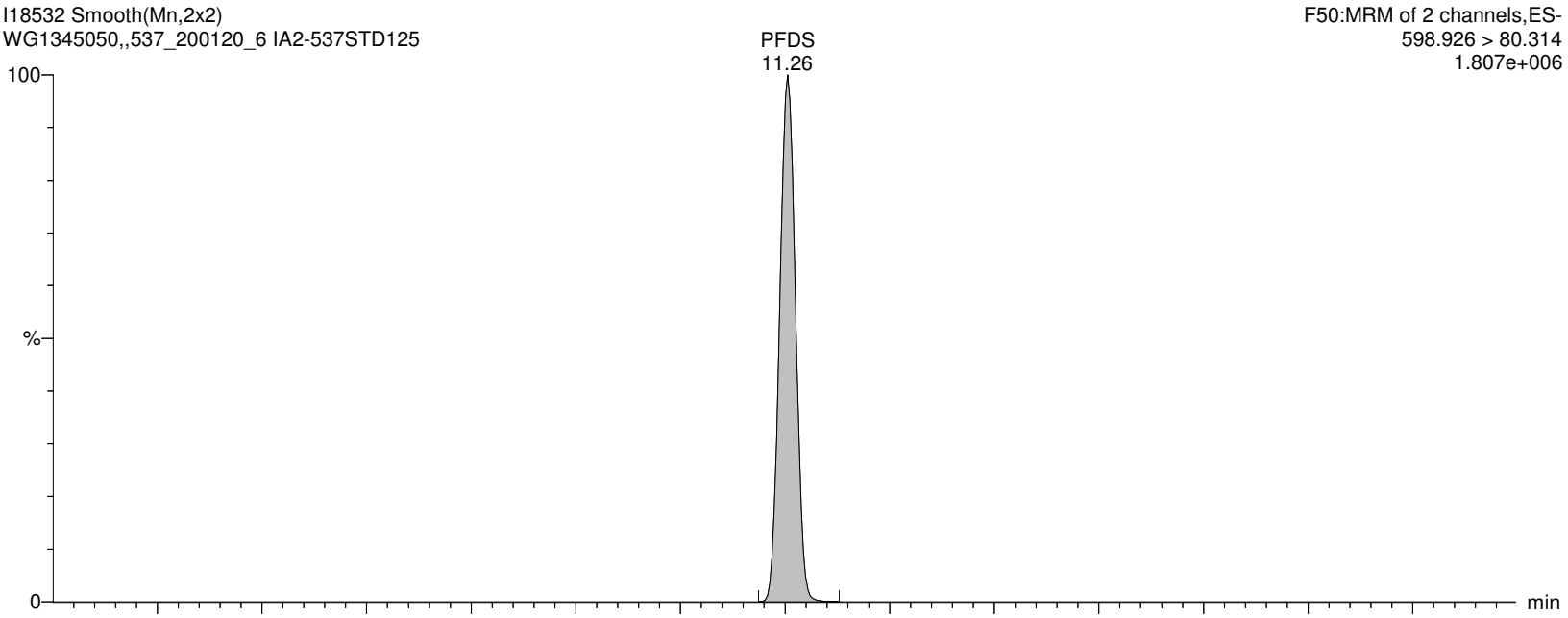

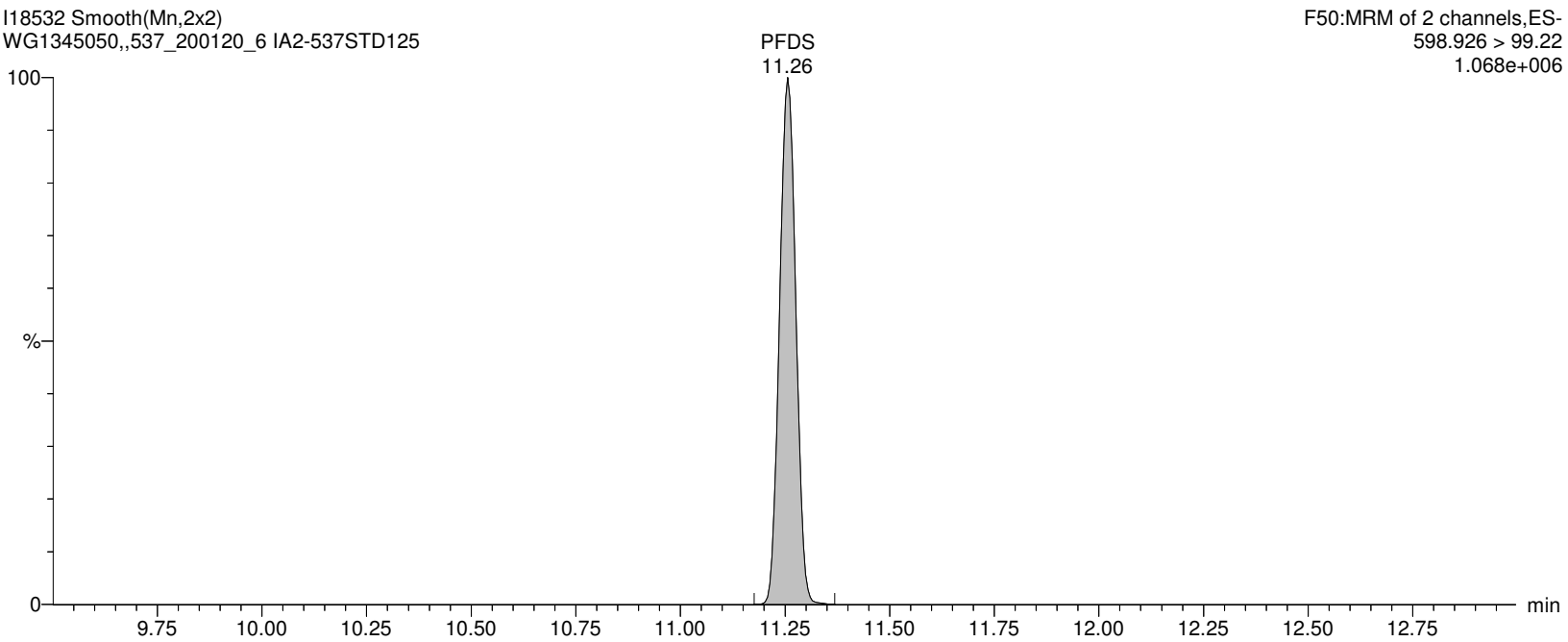

all concentration units in (ng/mL)

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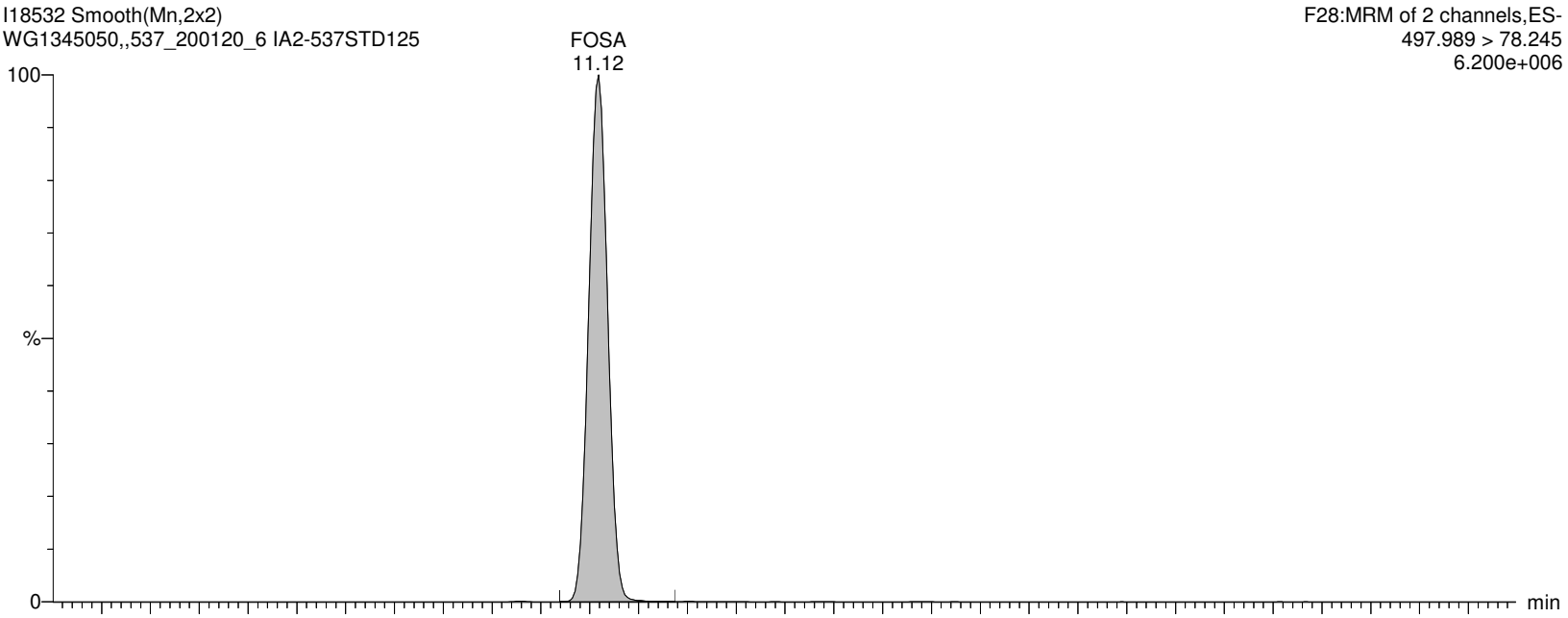

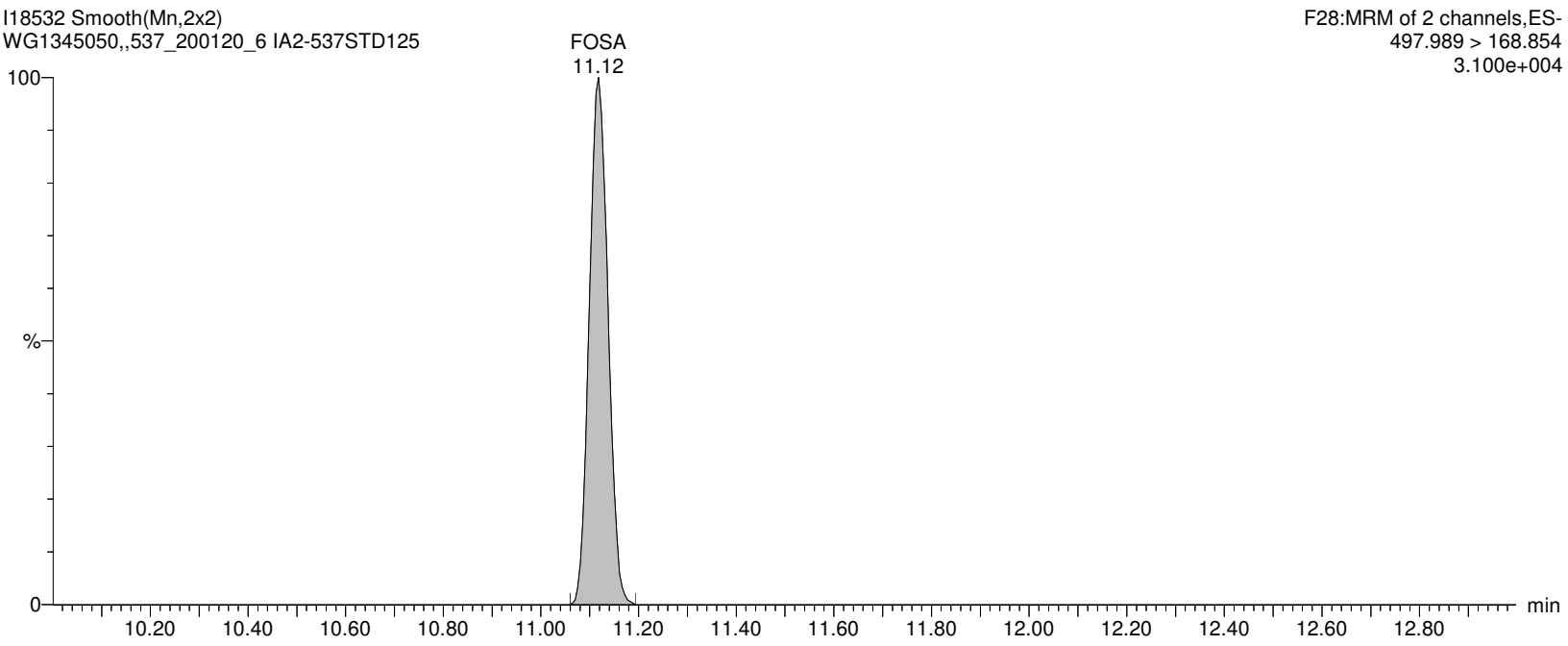

all concentration units in (ng/mL)

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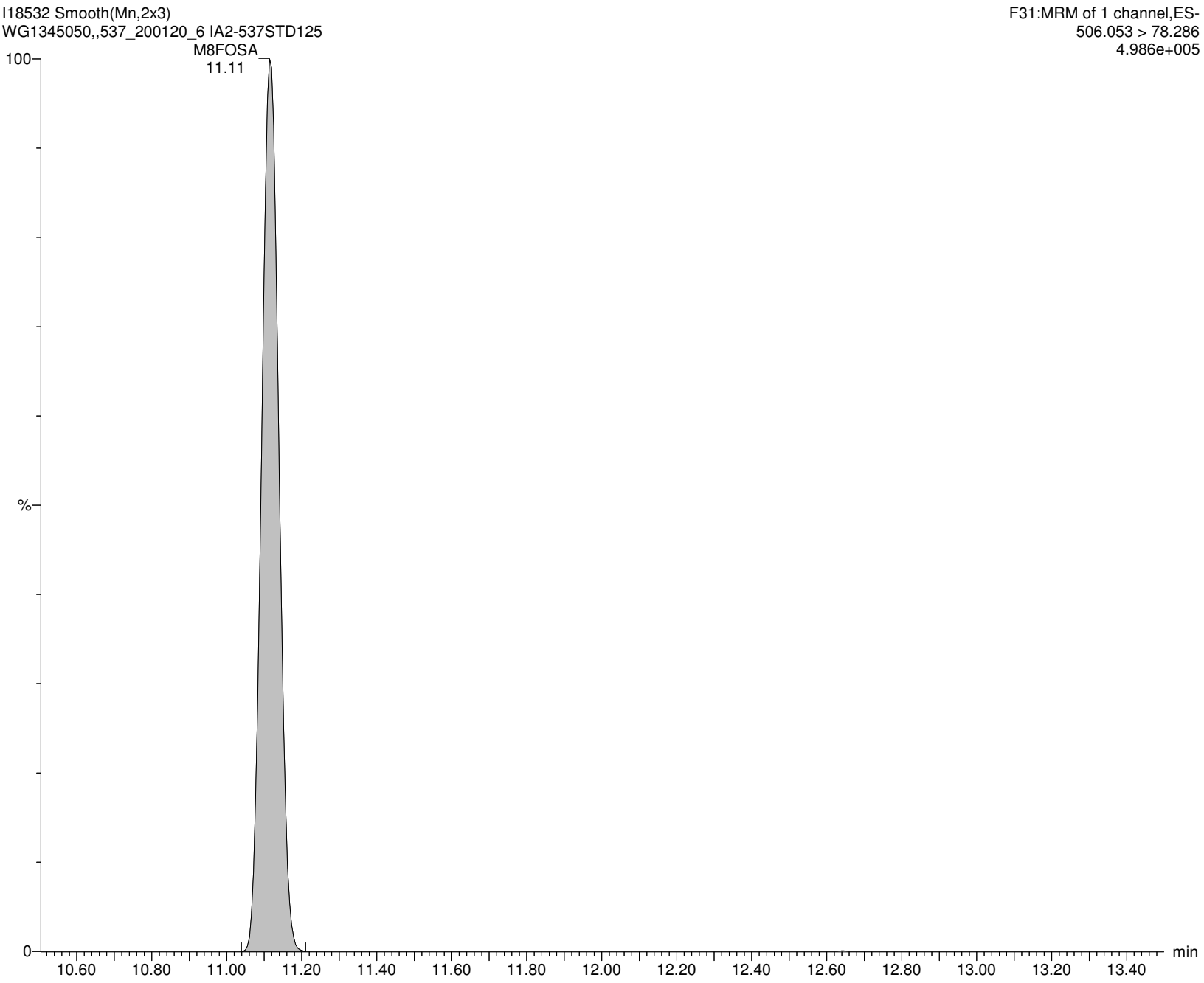

all concentration units in (ng/mL)

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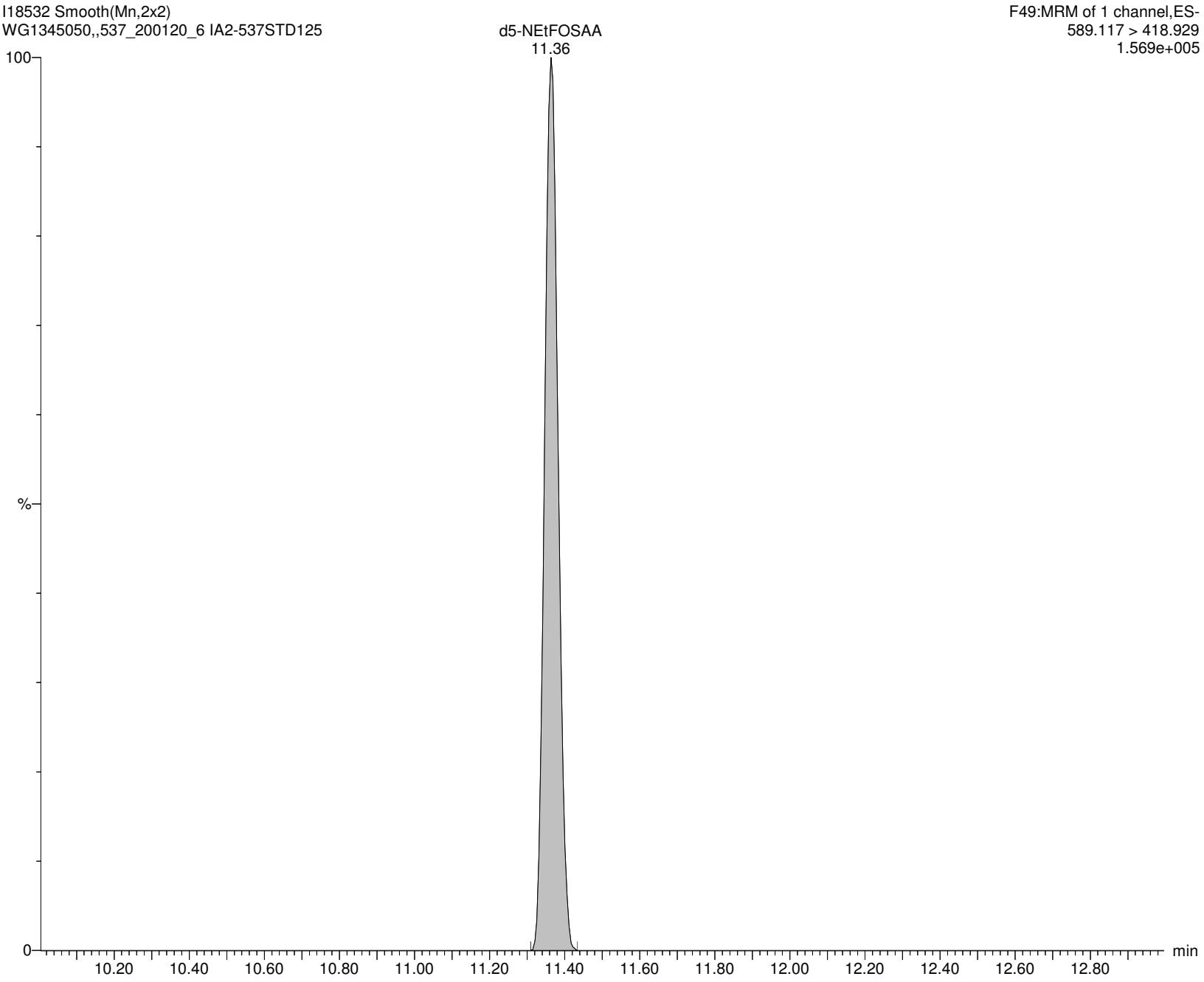

all concentration units in (ng/mL)

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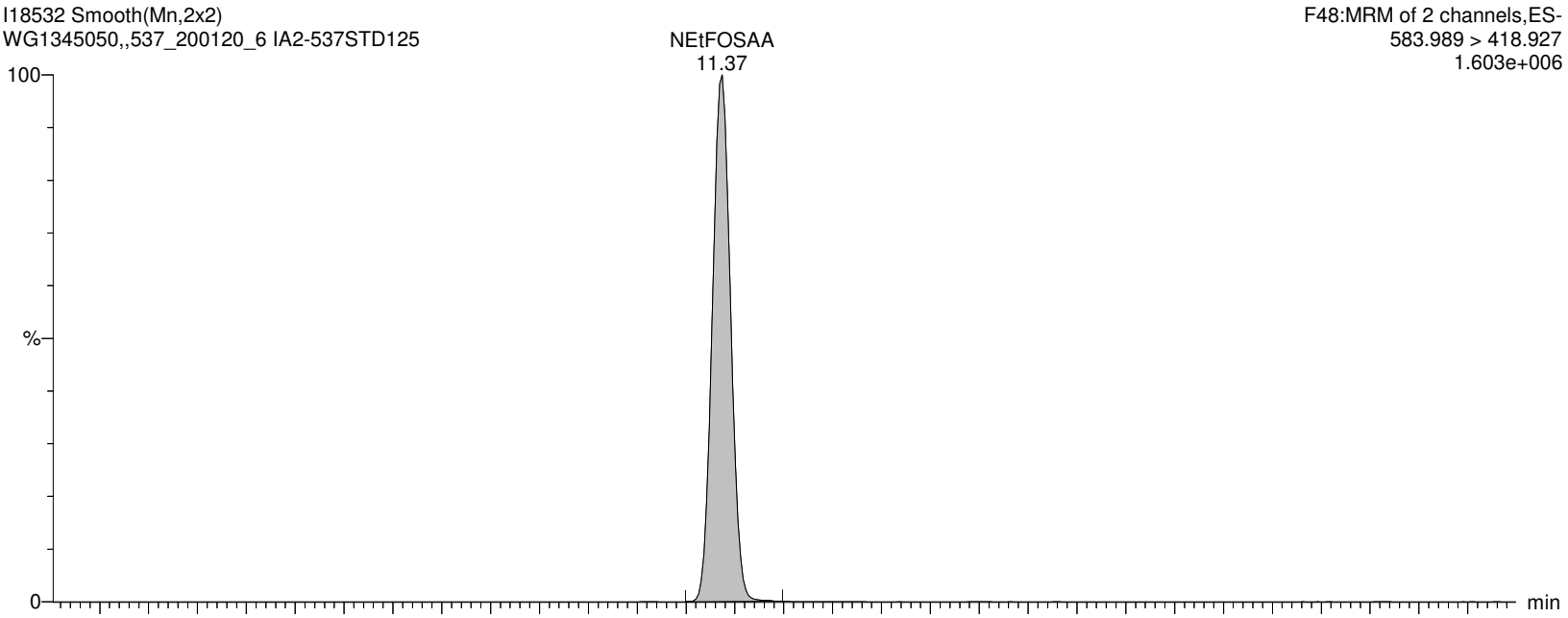

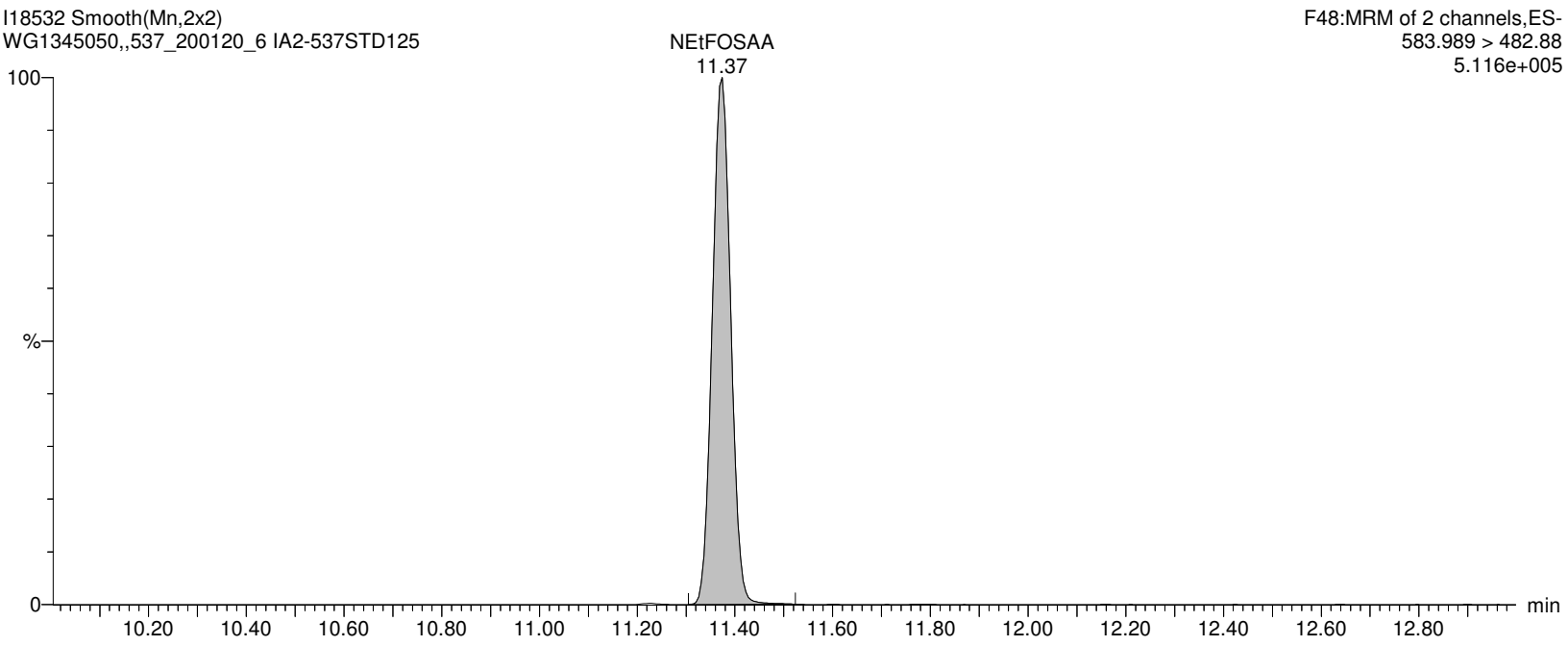

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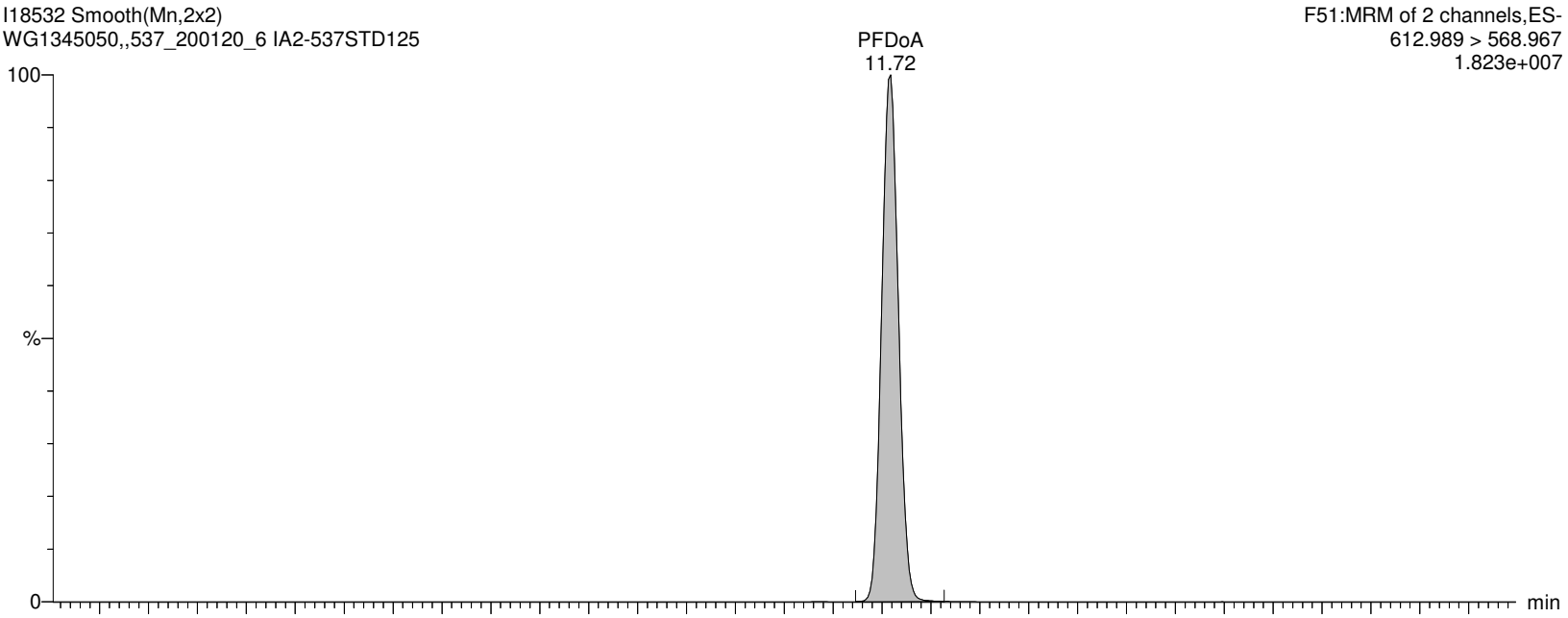

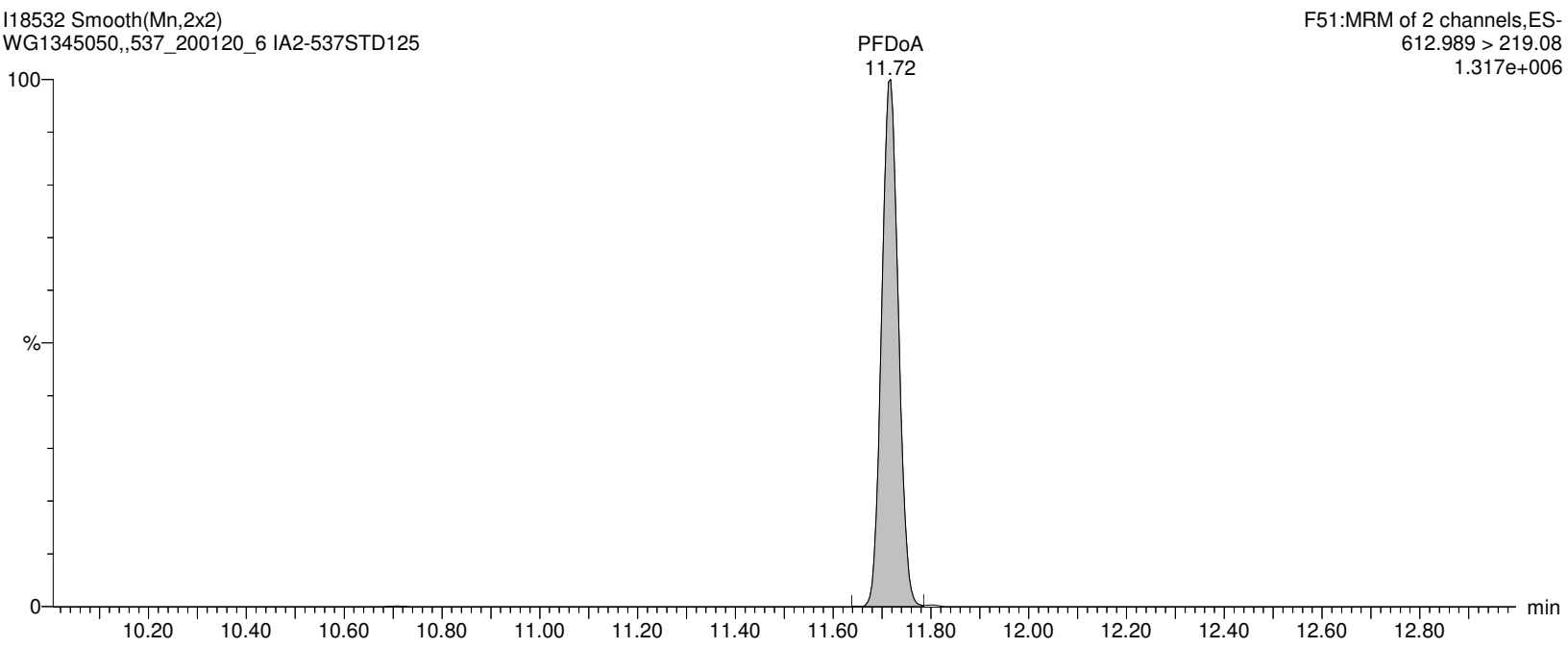

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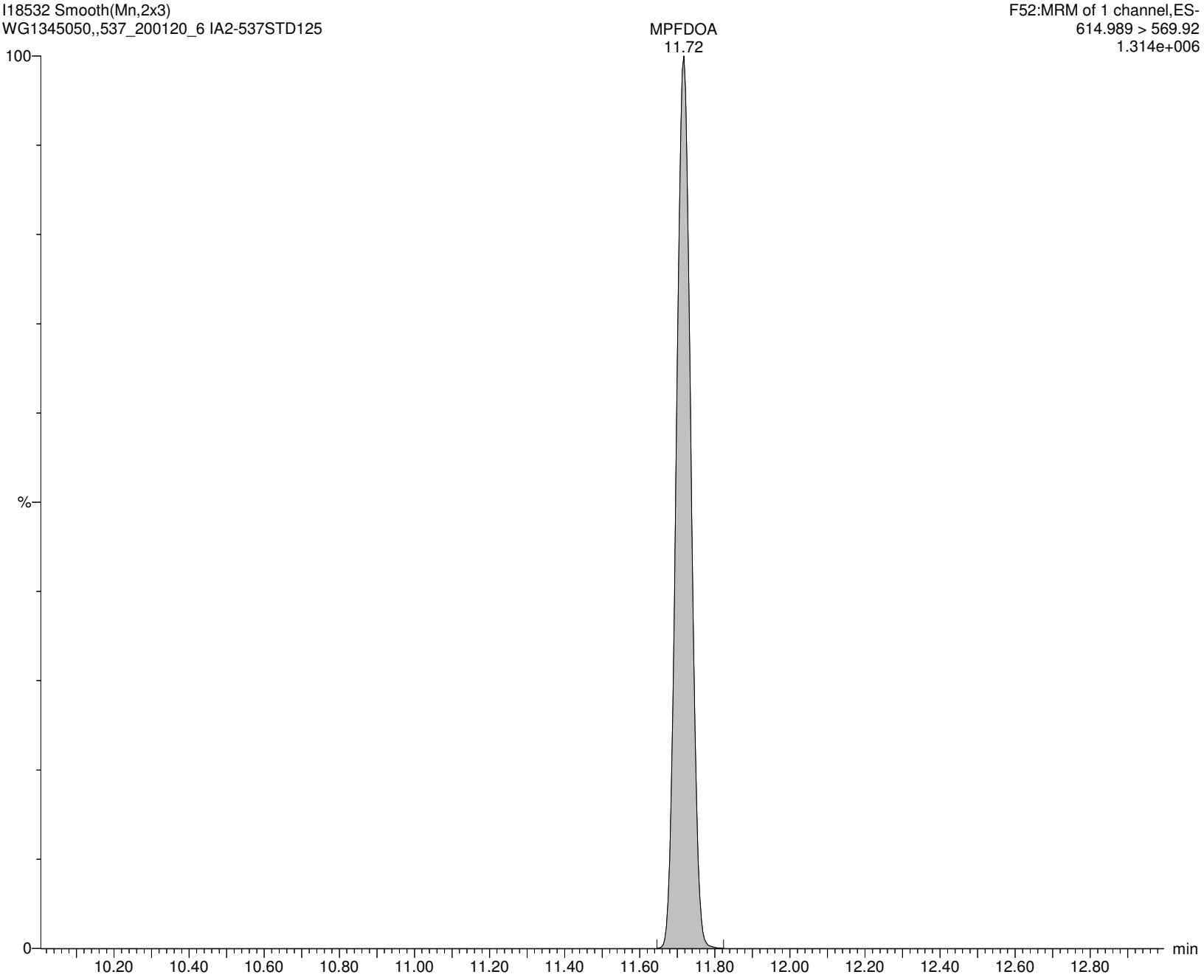

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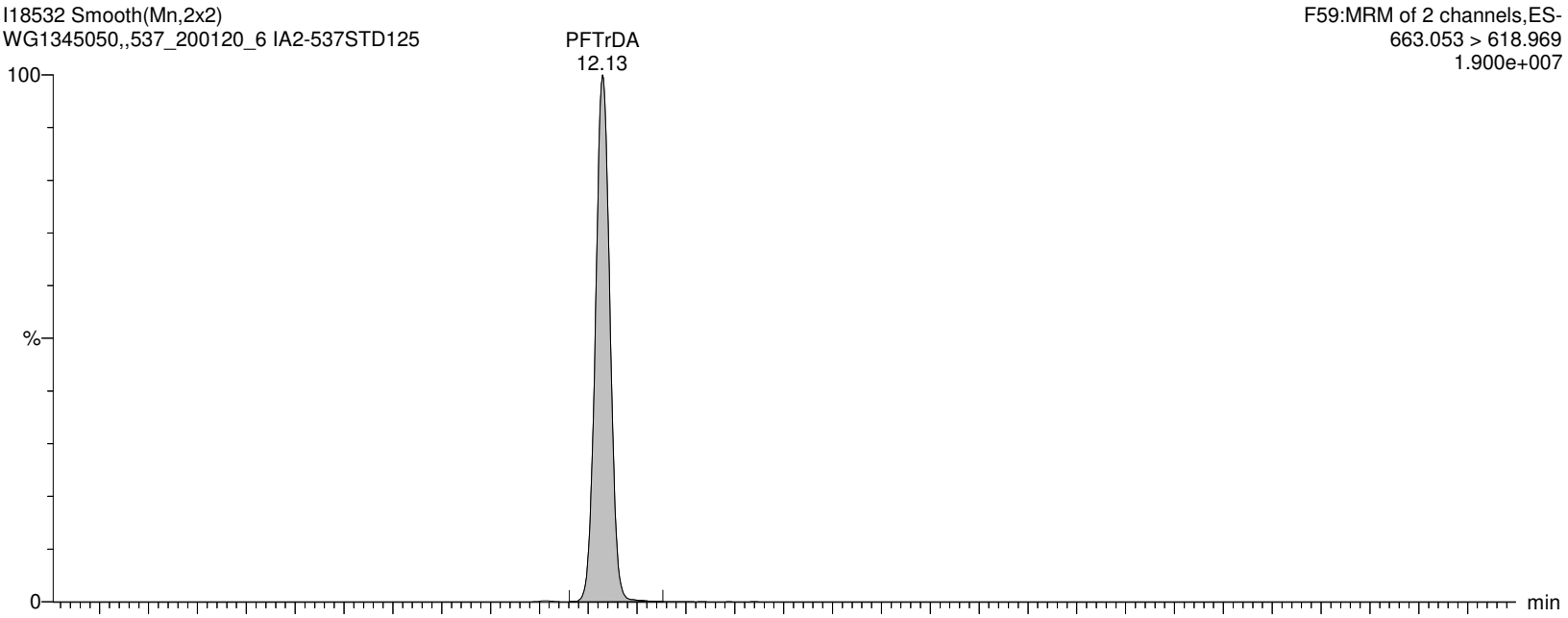

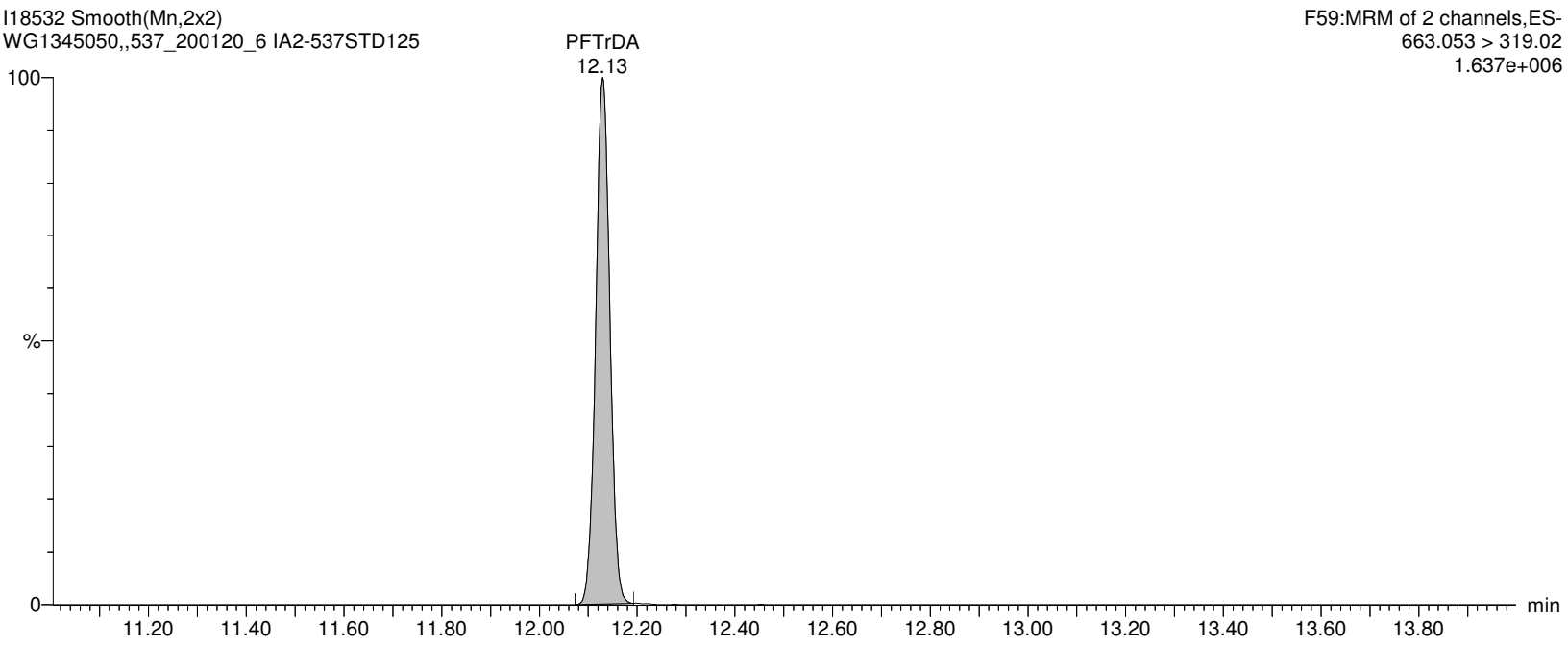

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, February 28, 2020 09:27:52 Eastern Standard Time

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Date: 27-Feb-2020
Time: 14:51:56
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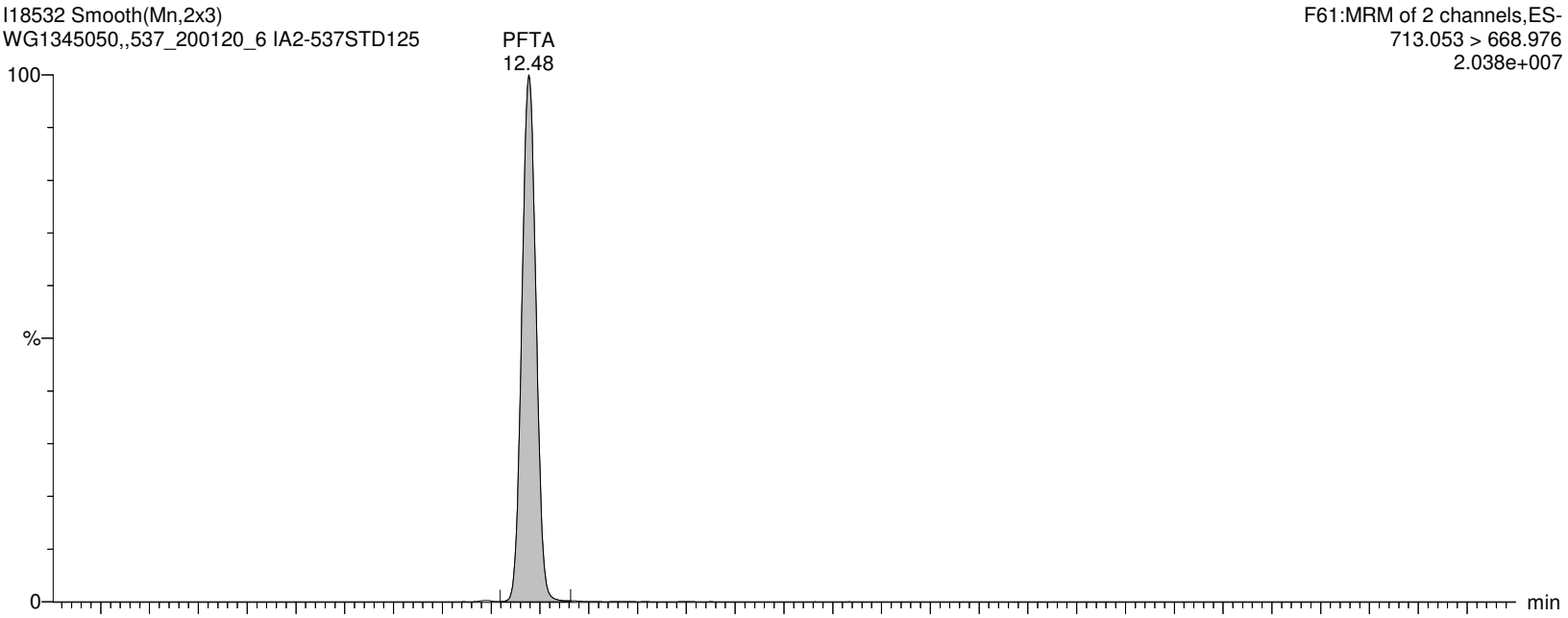

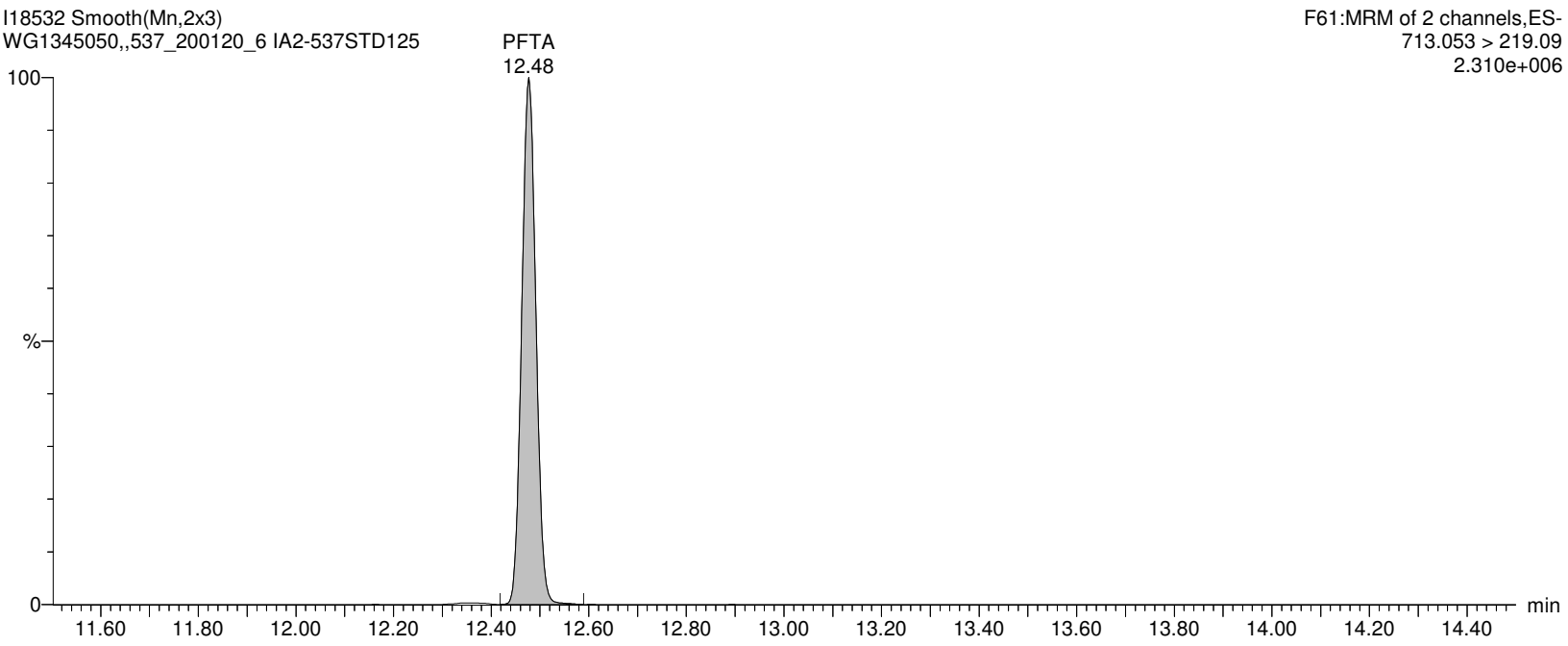

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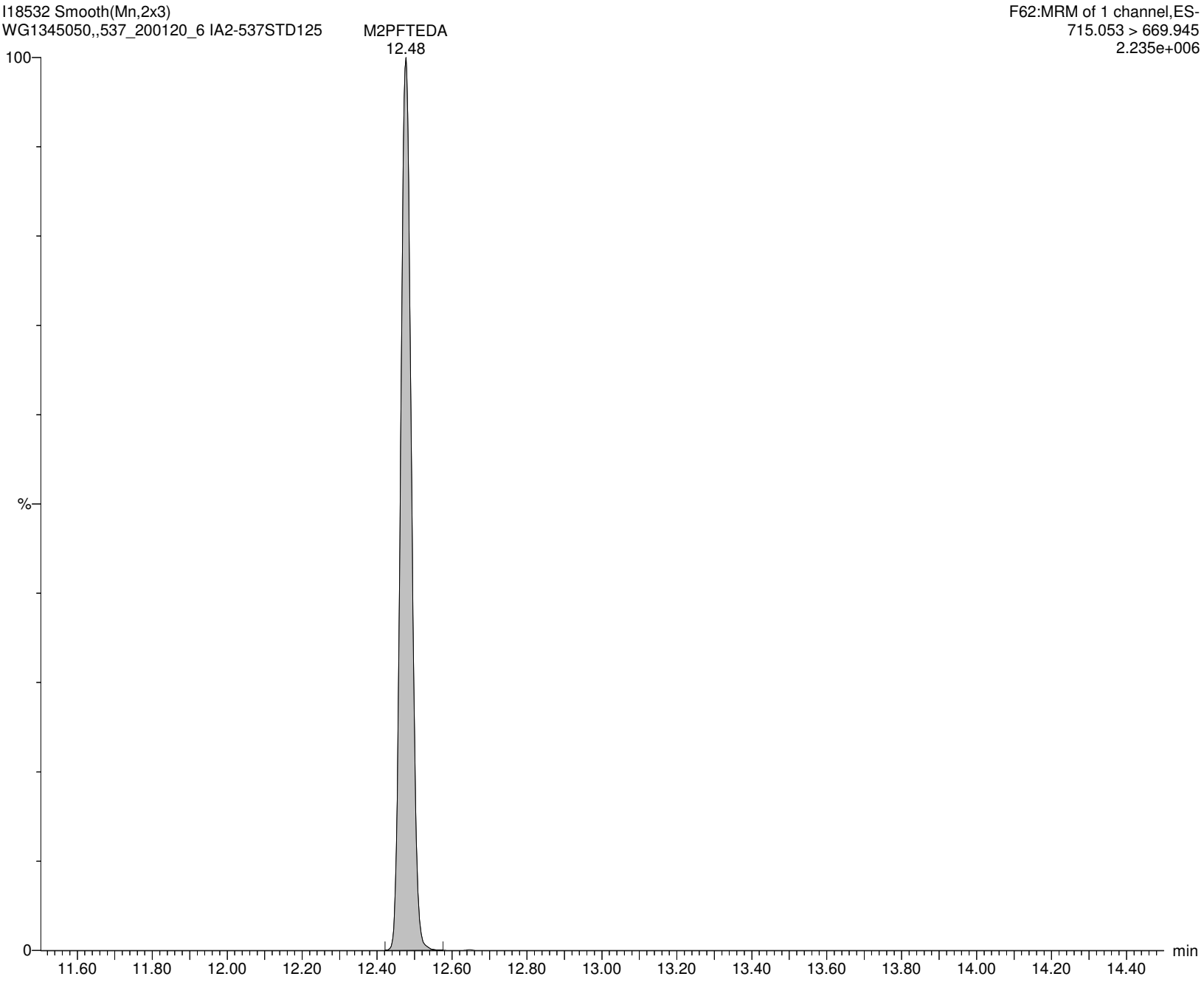

all concentration units in (ng/mL)

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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:54 Eastern Standard Time

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ID: IA2-537STD150
Name: I18533
Date: 27-Feb-2020
Time: 15:08:31
Description: WG1345050,,537_200120_7
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
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Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	473302		150.573		na	100.4
2	M3PFBA	INT STD	2.24	215.926 > 172.122	37209		9.463		na	94.6
3	MPFBA	INT STD	2.24	216.926 > 172.137	43836		10.281		na	102.8
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	591135		149.905		na	99.9
5	M5PFPEA	INT STD	5.21	267.989 > 223.081	57218		10.115		na	101.1
6	PFBS	375-73-5	5.87	298.926 > 79.923	121367		132.882	2.04	NO	100.1
7	M3PFBS	INT STD	5.87	301.989 > 80.254	10162		11.245		na	112.5
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	58728		142.184	1.75	NO	101.4
9	M2-4:2FTS	INT STD	7.05	329.117 > 309.079	7855		16.685		na	166.8
10	PFHxA	307-24-4	7.13	312.989 > 269.028	781257		150.369	17.15	NO	100.2
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	63413		10.272		na	102.7
12	PFPeS	2706-91-4	7.44	348.926 > 80.251	126270		139.785	2.36	NO	99.1
13	PFHpA	375-85-9	8.40	362.926 > 319.014	983605		158.889	5.12	NO	105.9
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	69870		9.756		na	97.6
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	20468		25.216	2.94	NO	98.9
16	L-PFHxS	355-46-4	8.56	398.904 > 79.915	74057		107.897	1.98	NO	97.2
17	PFHxS	355-46-4		398.904 > 79.915	94525		133.113		na	
18	M3PFHxS	INT STD	8.56	401.926 > 80.317	9204		11.369		na	113.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.35	412.989 > 368.9	941814		155.269	8.57	NO	103.5
21	M2PFOA	INT STD	9.35	415.032 > 369.968	75404		8.963		na	89.6
22	PFOA	335-67-1		412.989 > 368.9	941814		155.269		na	
23	M8PFOA	INT STD	9.35	420.989 > 375.979	72165		10.036		na	100.4
24	6:2FTS	27619-97-2	9.31	426.989 > 406.921	12931		97.691	0.69	NO	68.6
25	M2-6:2FTS	INT STD	9.31	428.989 > 408.917	5548		18.939		na	189.4
26	PFHpS	375-92-8	9.44	448.926 > 80.257	71785		137.523	1.08	NO	96.5
27	PFNA	375-95-1	10.10	462.989 > 418.931	780273		146.509	4.07	NO	97.7
28	M9PFNA	INT STD	10.10	472.053 > 426.947	71578		10.182		na	101.8
29	br-PFOS	1763-23-1	9.96	498.968 > 79.918	25842	M5	28.096	3.86	NO	93.7
30	L-PFOS	1763-23-1	10.15	498.968 > 79.918	57191		102.137	1.37	NO	93.3
31	PFOS	1763-23-1		498.968 > 79.918	83032		130.233		na	
32	M4PFOS	INT STD	10.15	503.032 > 80.306	7044		8.293		na	82.9
33	M8PFOS	INT STD	10.15	507.053 > 80.294	9728		11.891		na	118.9
34	PFDA	335-76-2	10.72	513.053 > 468.906	719876		153.759	5.88	NO	102.5
35	M2PFDA	INT STD	10.72	515.053 > 469.934	54996		8.314		na	83.1
36	M6PFDA	INT STD	10.72	519.053 > 473.931	61123		10.102		na	101.0
37	8:2FTS	39108-34-4	10.71	527.032 > 507.079	16265		146.456	1.65	NO	101.7
38	M2-8:2FTS	INT STD	10.71	529.053 > 508.945	2549		14.389		na	143.9
39	PFNS	68259-12-1	10.75	548.989 > 80.249	88919		132.956	1.37	NO	92.3

all concentration units in (ng/mL)

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ID: IA2-537STD150
Name: I18533
Date: 27-Feb-2020
Time: 15:08:31
Description: WG1345050,,537_200120_7
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.09	573.096 > 418.987	9105		11.359		na	113.6
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	82881		152.312	2.82	NO	101.5
42	PFUnA	2058-94-8	11.26	562.989 > 518.903	693445		147.520	7.38	NO	98.3
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	52988		9.966		na	99.7
44	PFDS	335-77-3	11.26	598.926 > 80.314	87936		134.469	1.65	NO	92.9
45	FOSA	754-91-6	11.13	497.989 > 78.245	328542		146.808	290.24	NO	97.9
46	M8FOSA	INT STD	11.13	506.053 > 78.286	27182		11.209		na	112.1
47	d5-NEtFOSAA	INT STD	11.38	589.117 > 418.929	7148		12.229		na	122.3
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	84147		137.999	3.06	NO	92.0
49	PFDoA	307-55-1	11.72	612.989 > 568.967	869214		165.361	15.03	NO	110.2
50	MPFDOA	INT STD	11.72	614.989 > 569.92	57897		10.128		na	101.3
51	PFTrDA	72629-94-8	12.14	663.053 > 618.969	765333		154.889	11.40	NO	103.3
52	PFTA	376-06-7	12.48	713.053 > 668.976	766912		149.127	8.78	NO	99.4
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	69409		10.773		na	107.7

all concentration units in (ng/mL)

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Name: I18533
ID: IA2-537STD150
Date: 27-Feb-2020
Time: 15:08:31
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User: LCMS01:SG
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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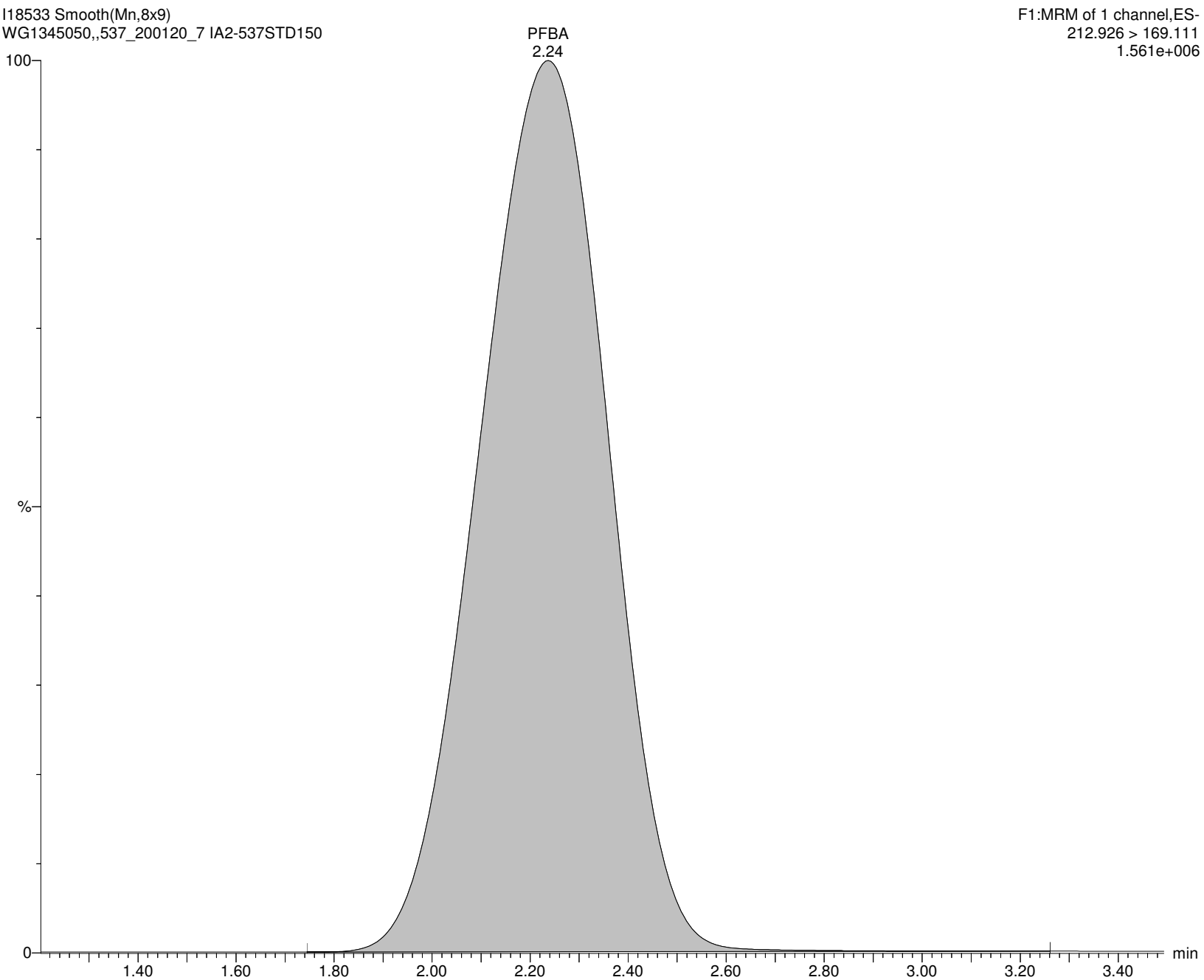

all concentration units in (ng/mL)

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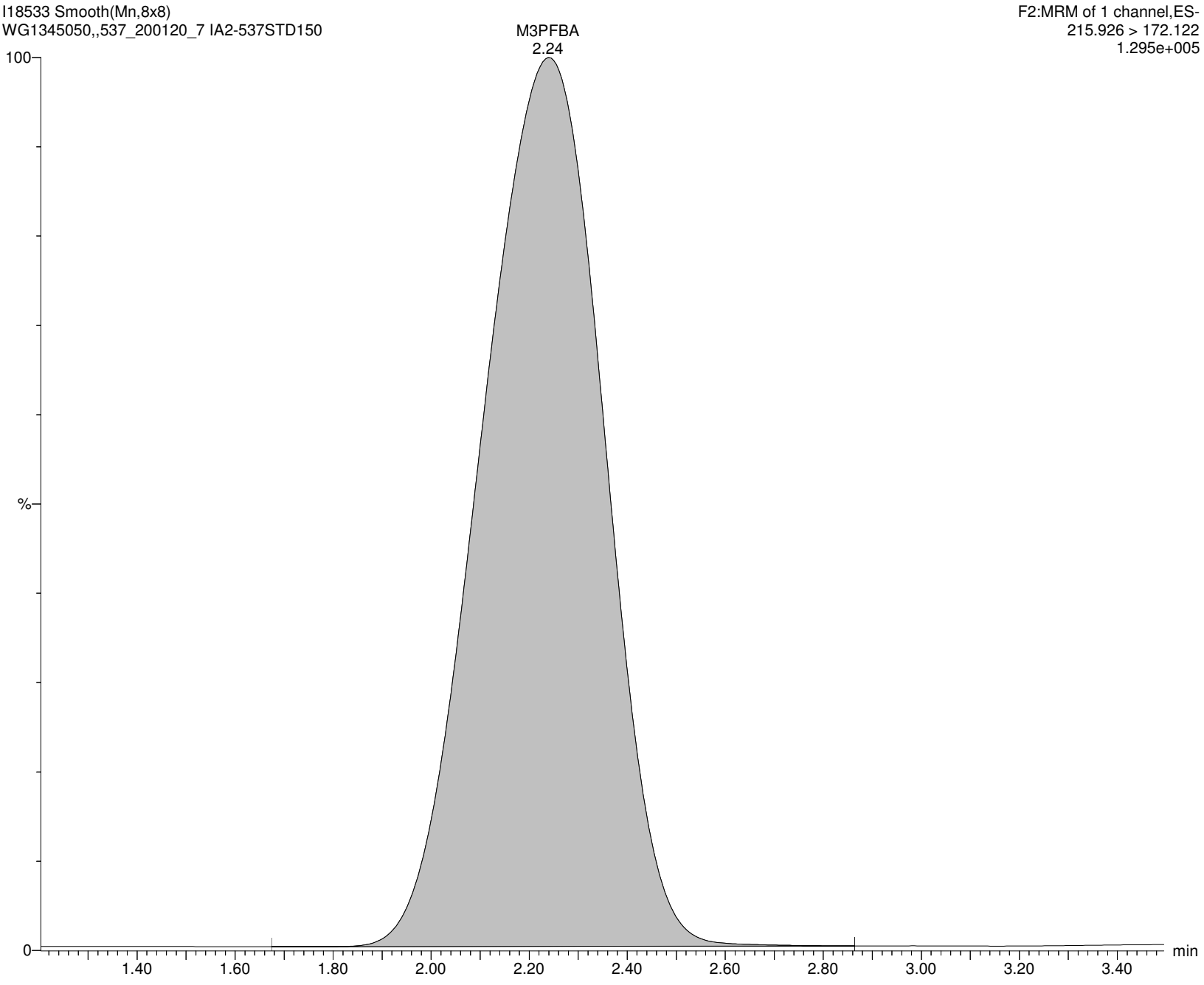

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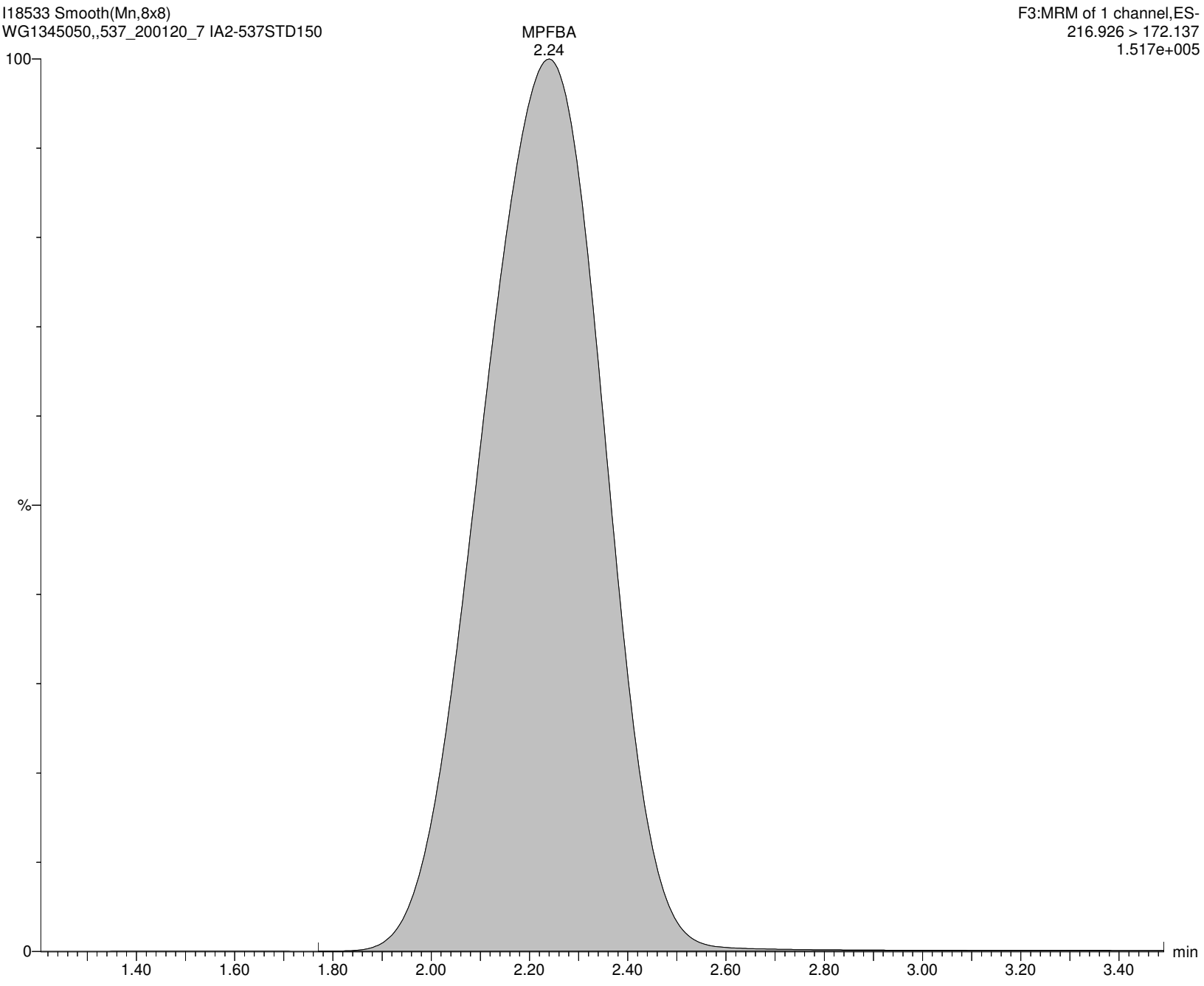

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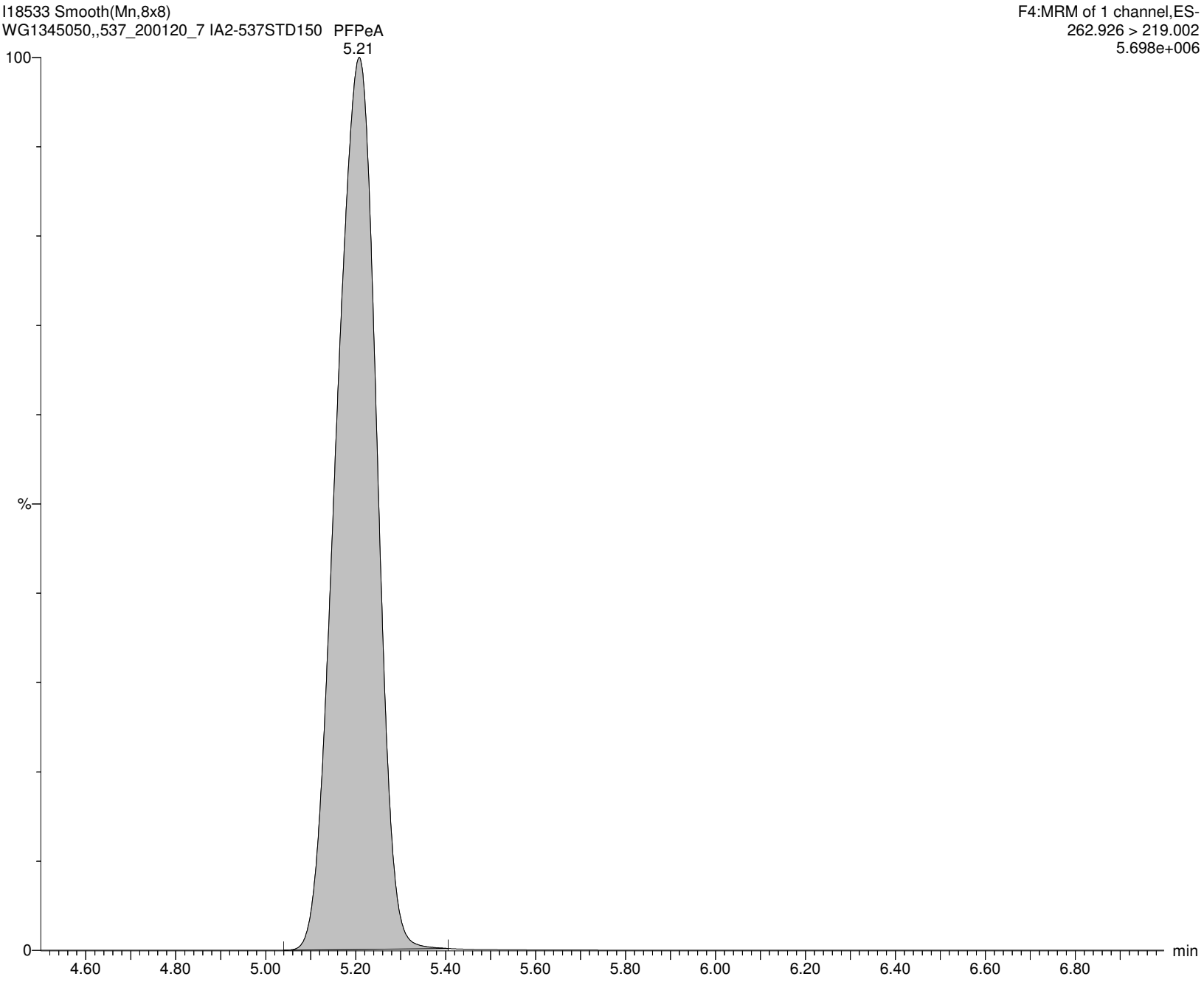

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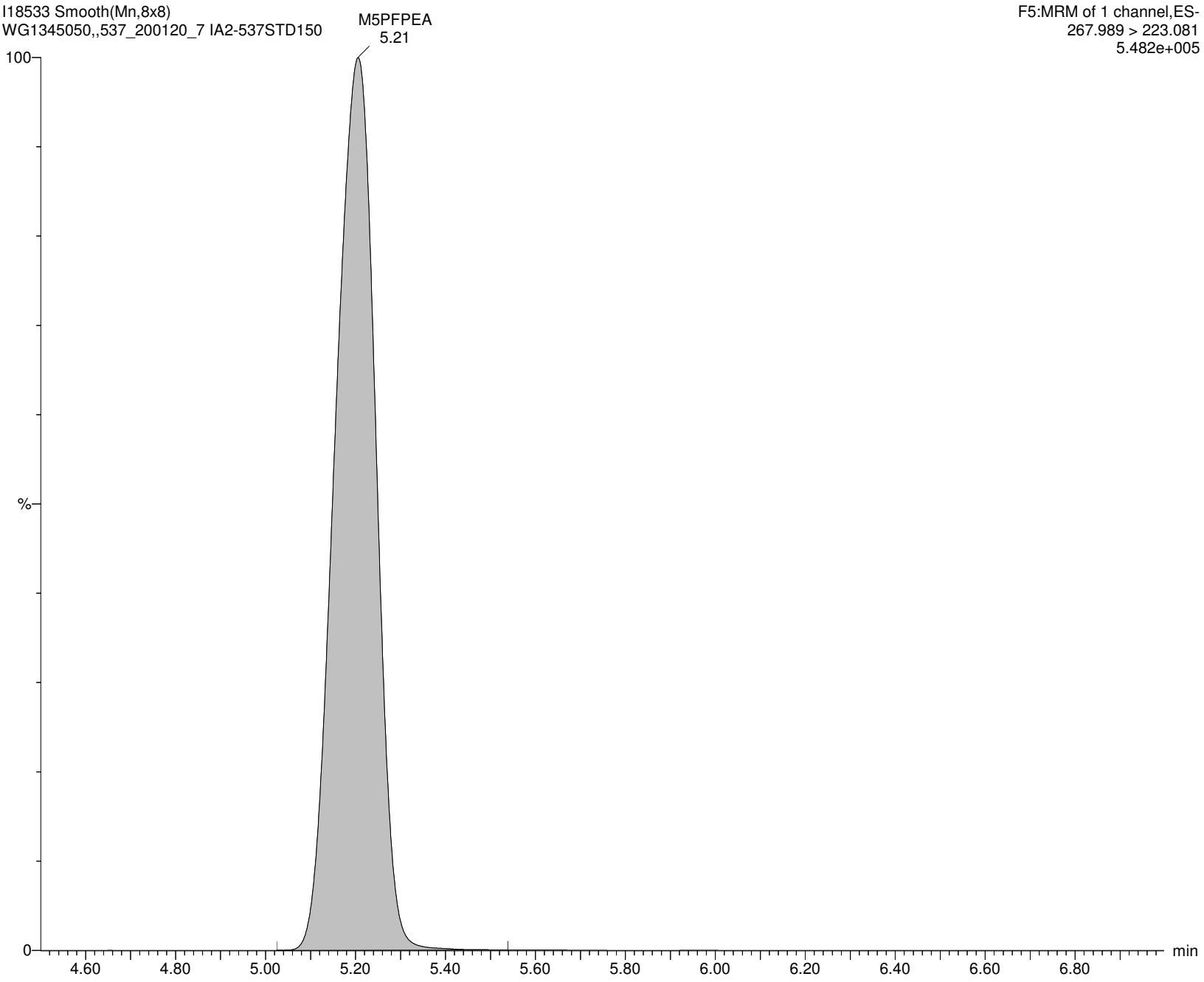

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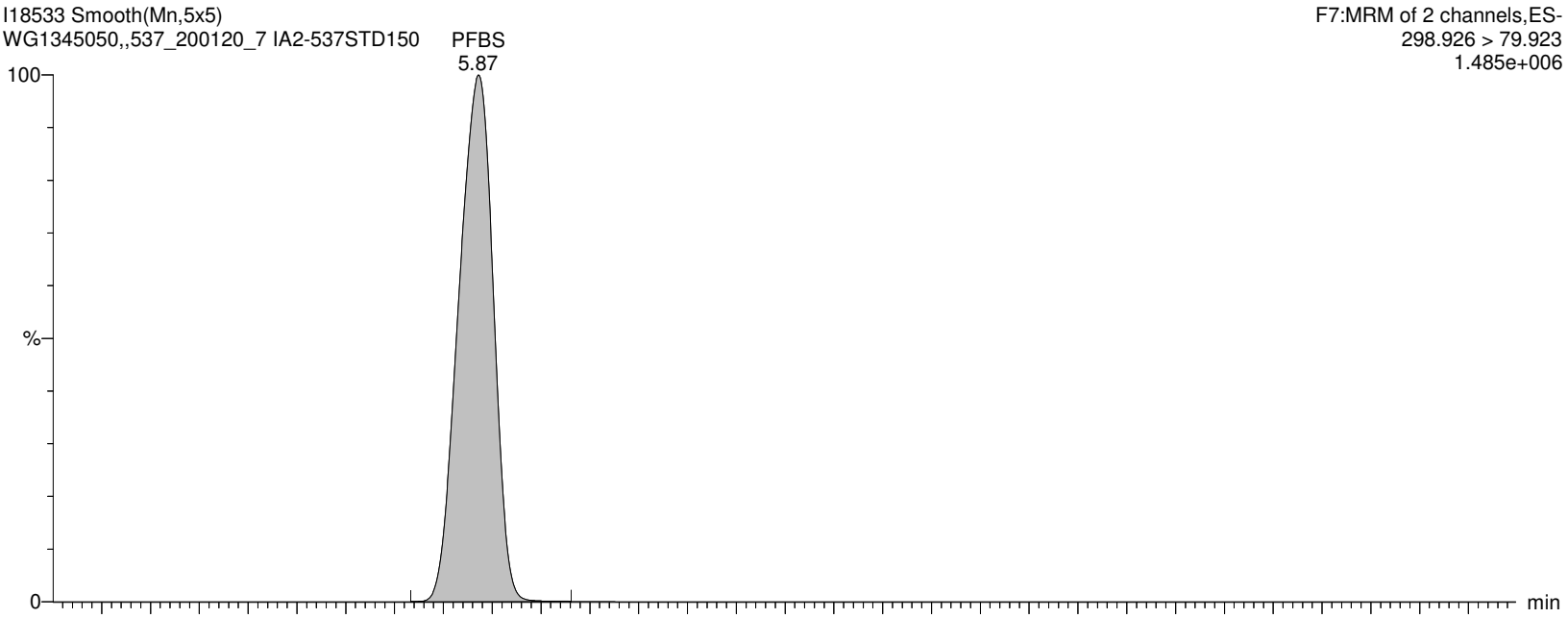

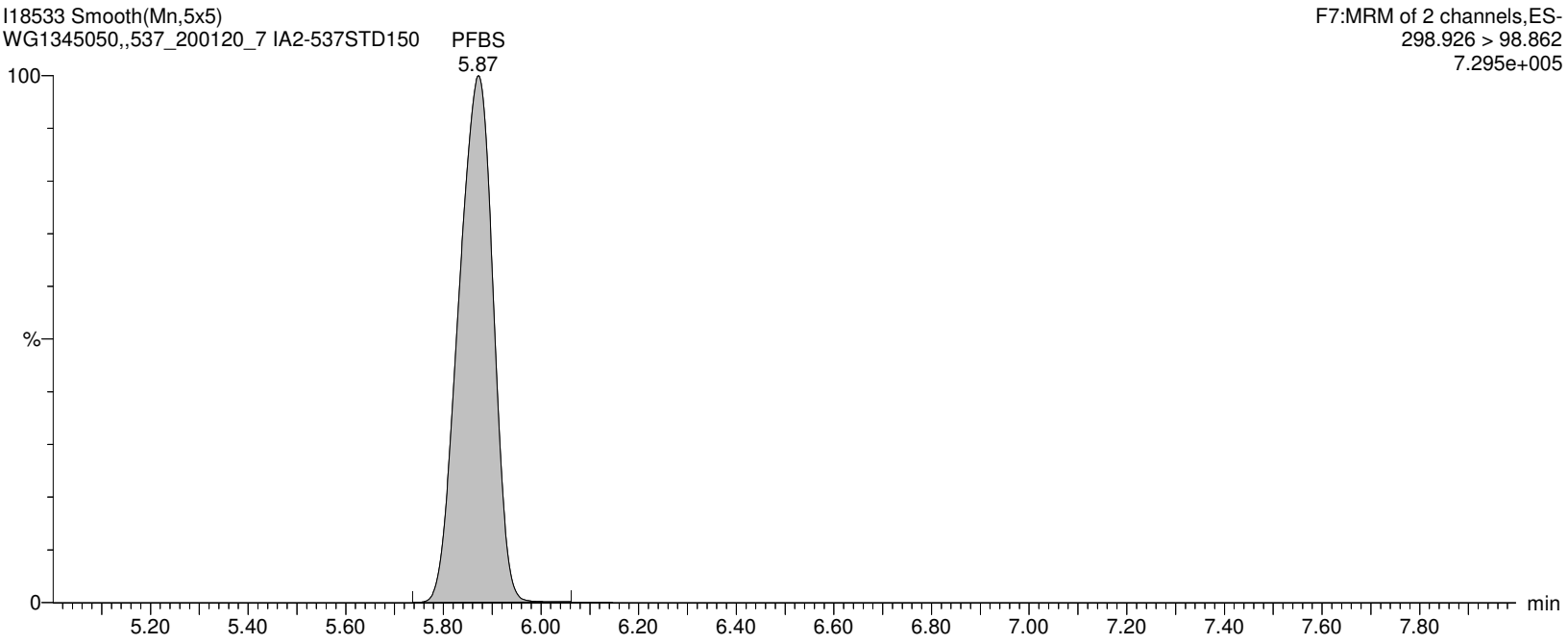

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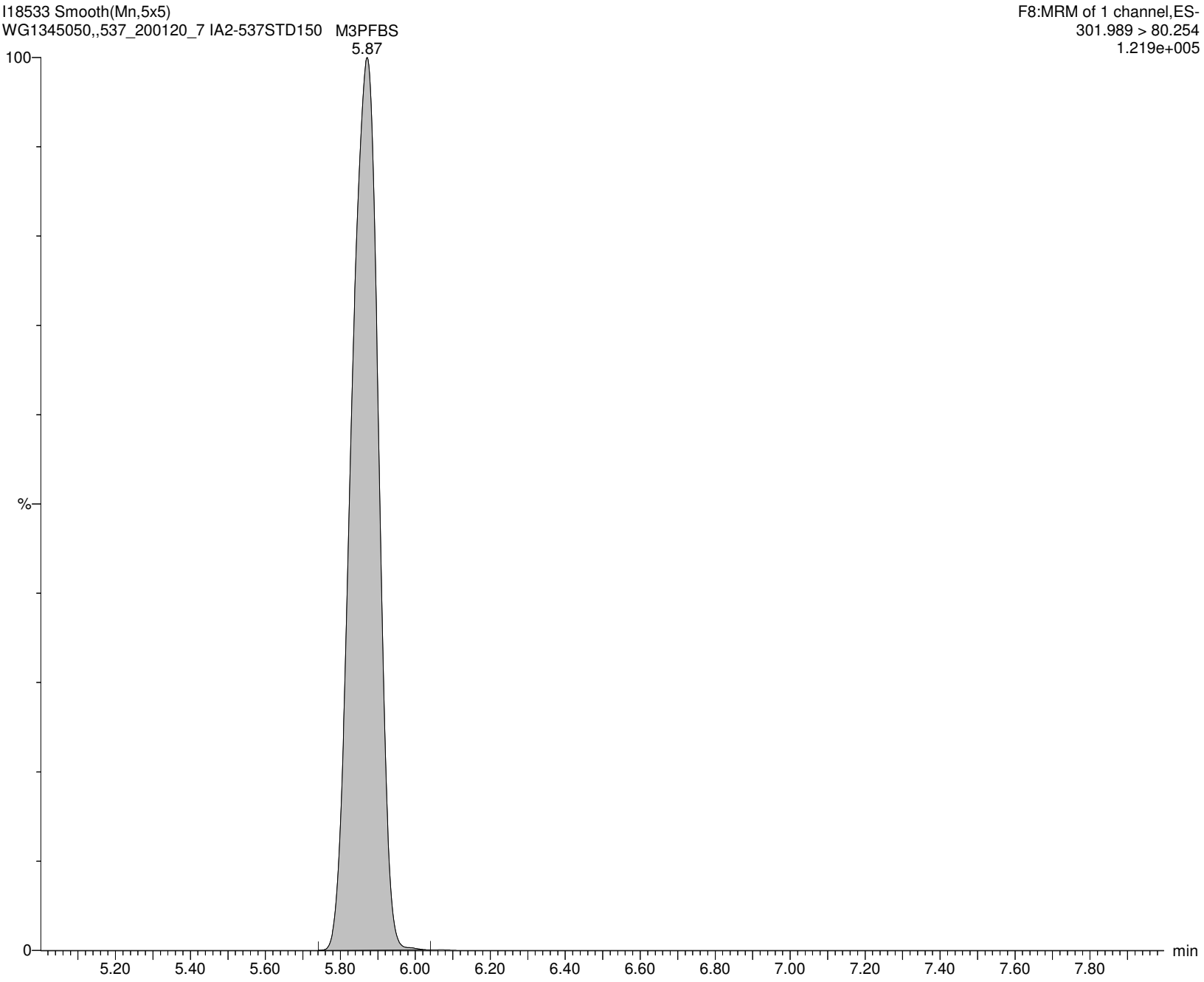
M3PFBS



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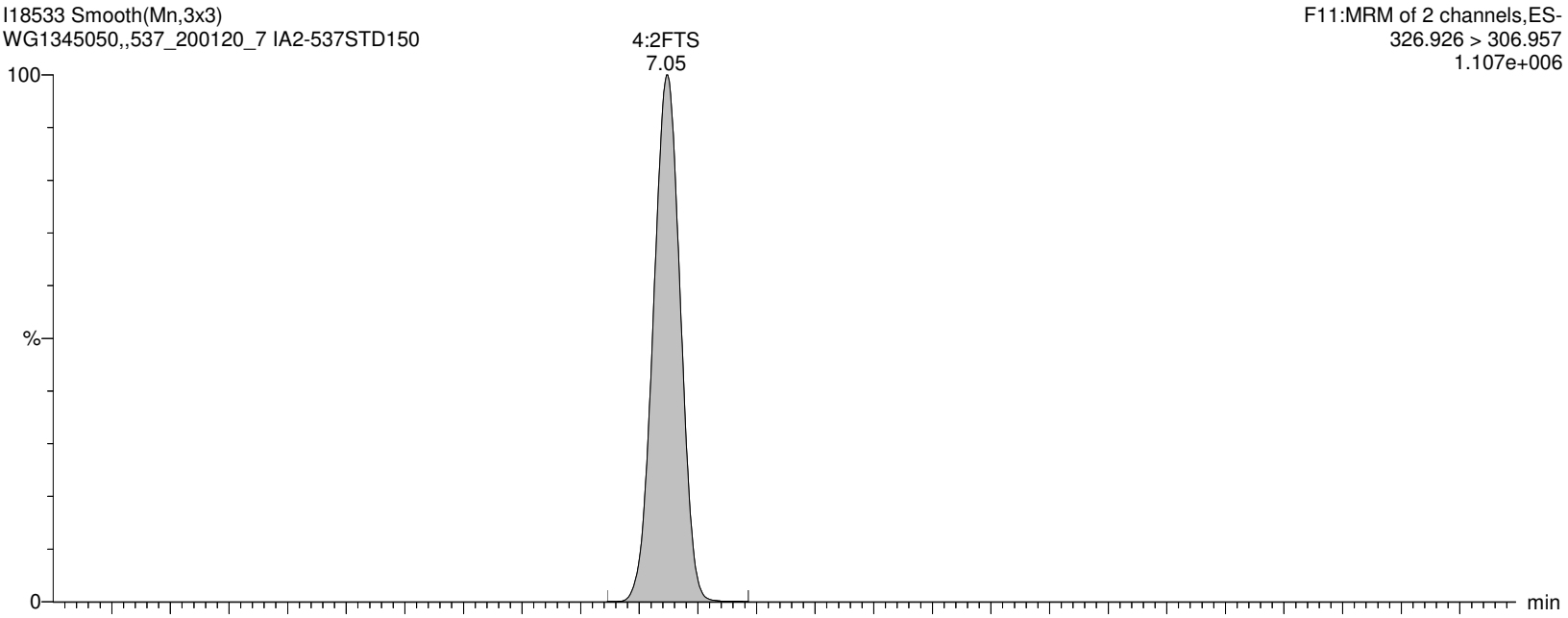
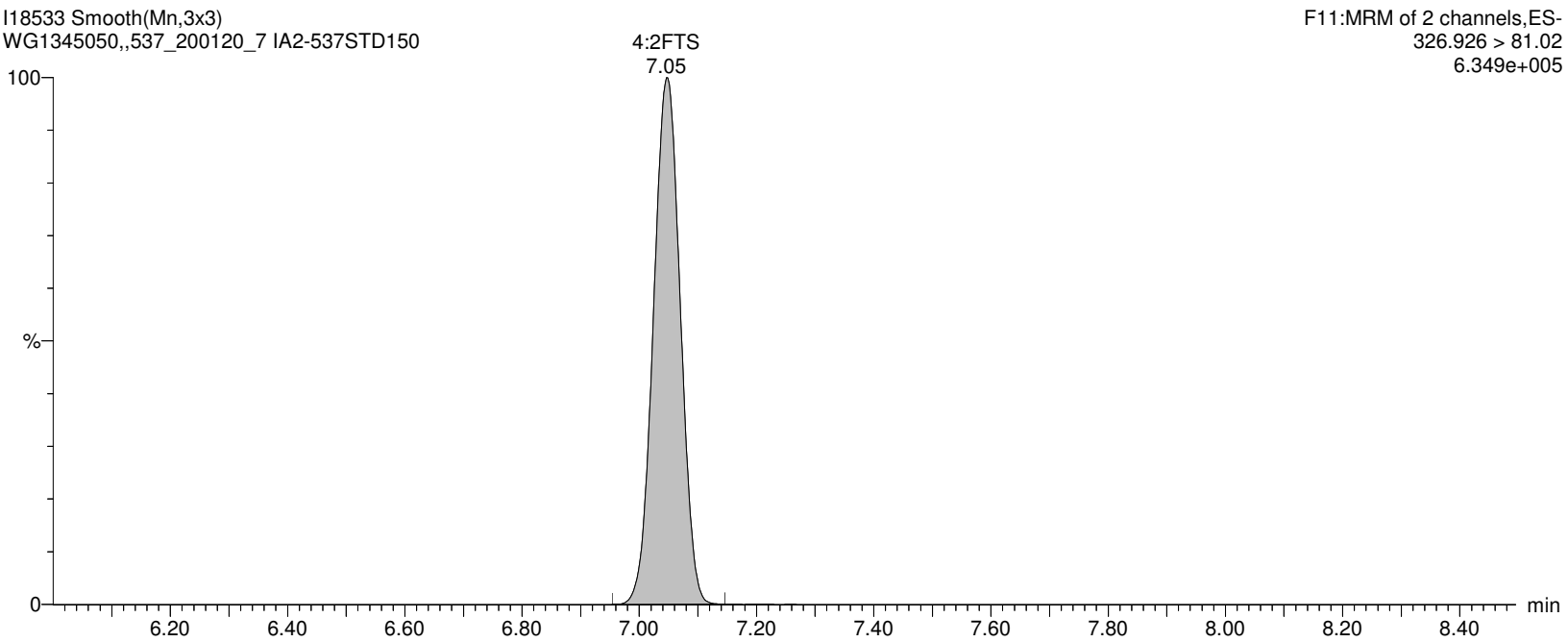
4:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:54 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:08:31
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User: LCMS01:SG
Vial: 1:A,8
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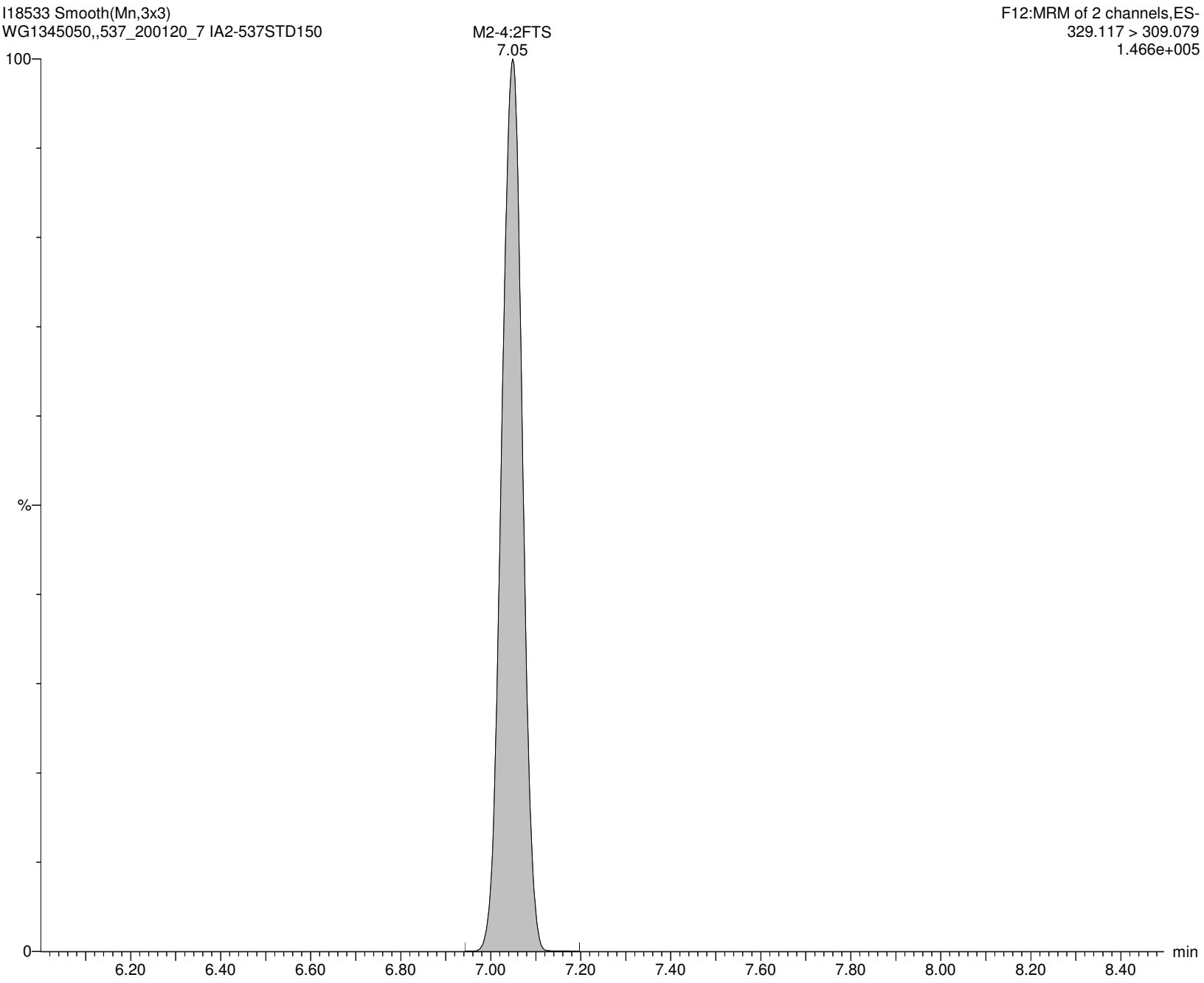

all concentration units in (ng/mL)

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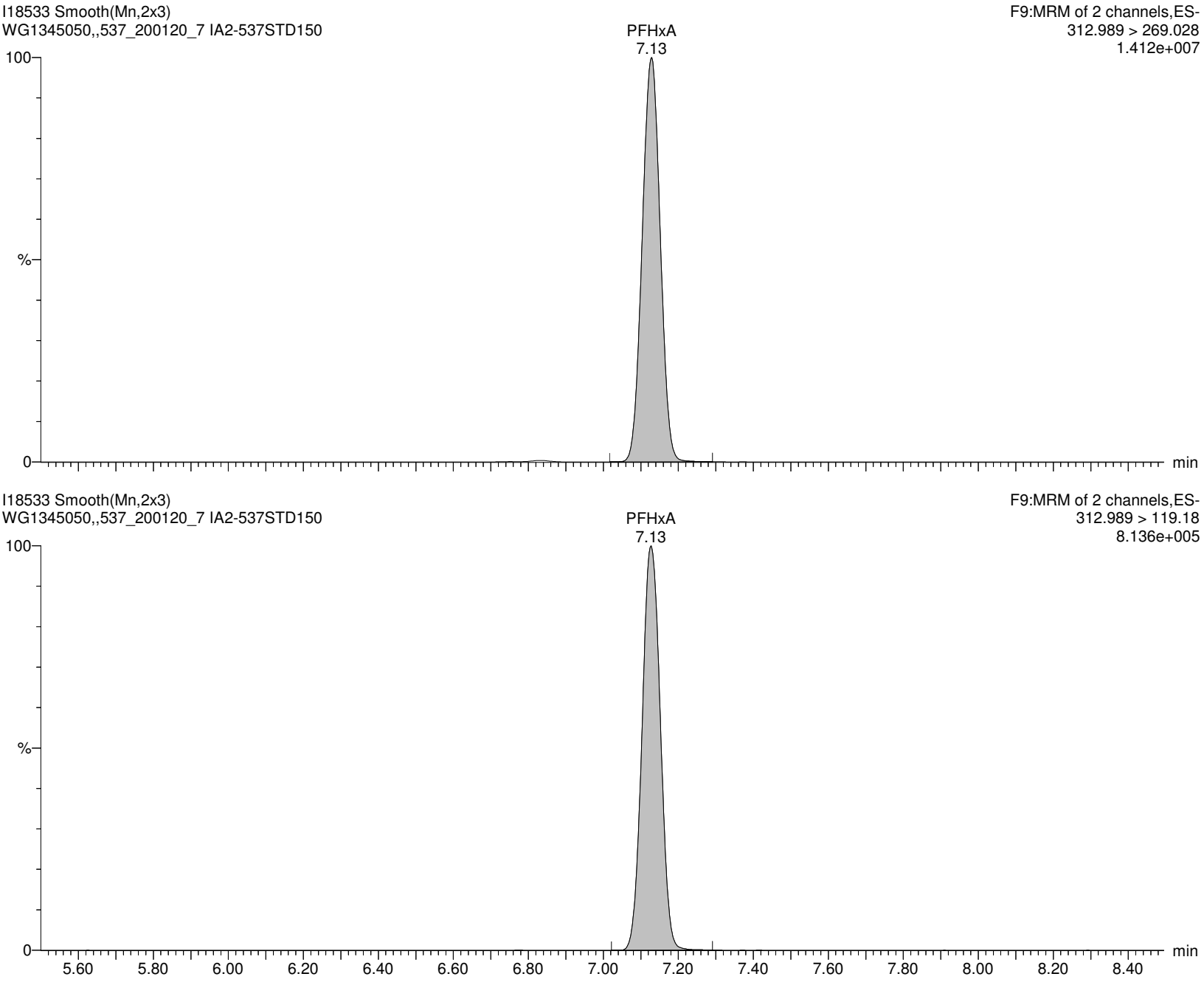

all concentration units in (ng/mL)

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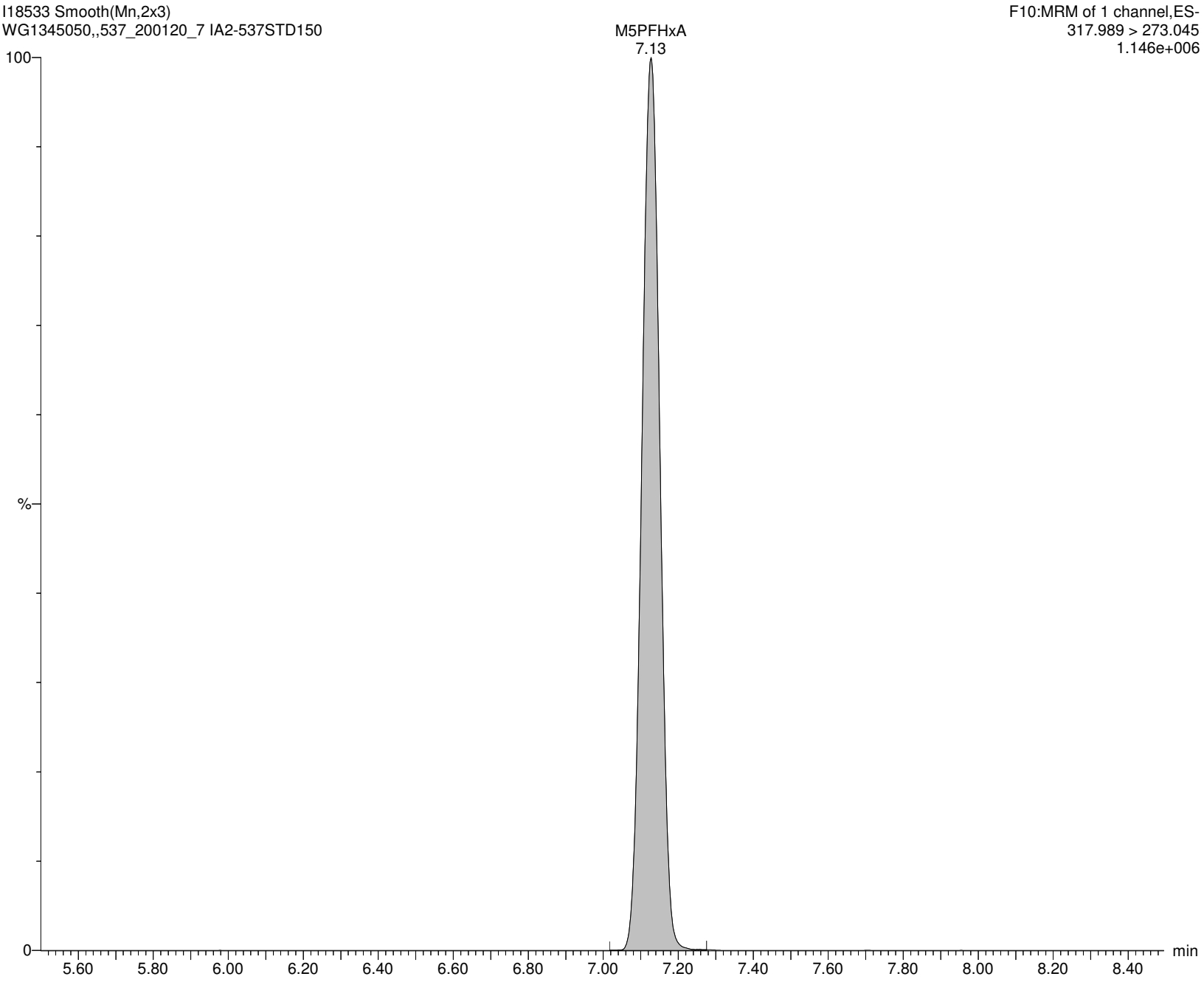

all concentration units in (ng/mL)

Alpha Analytical Inc.
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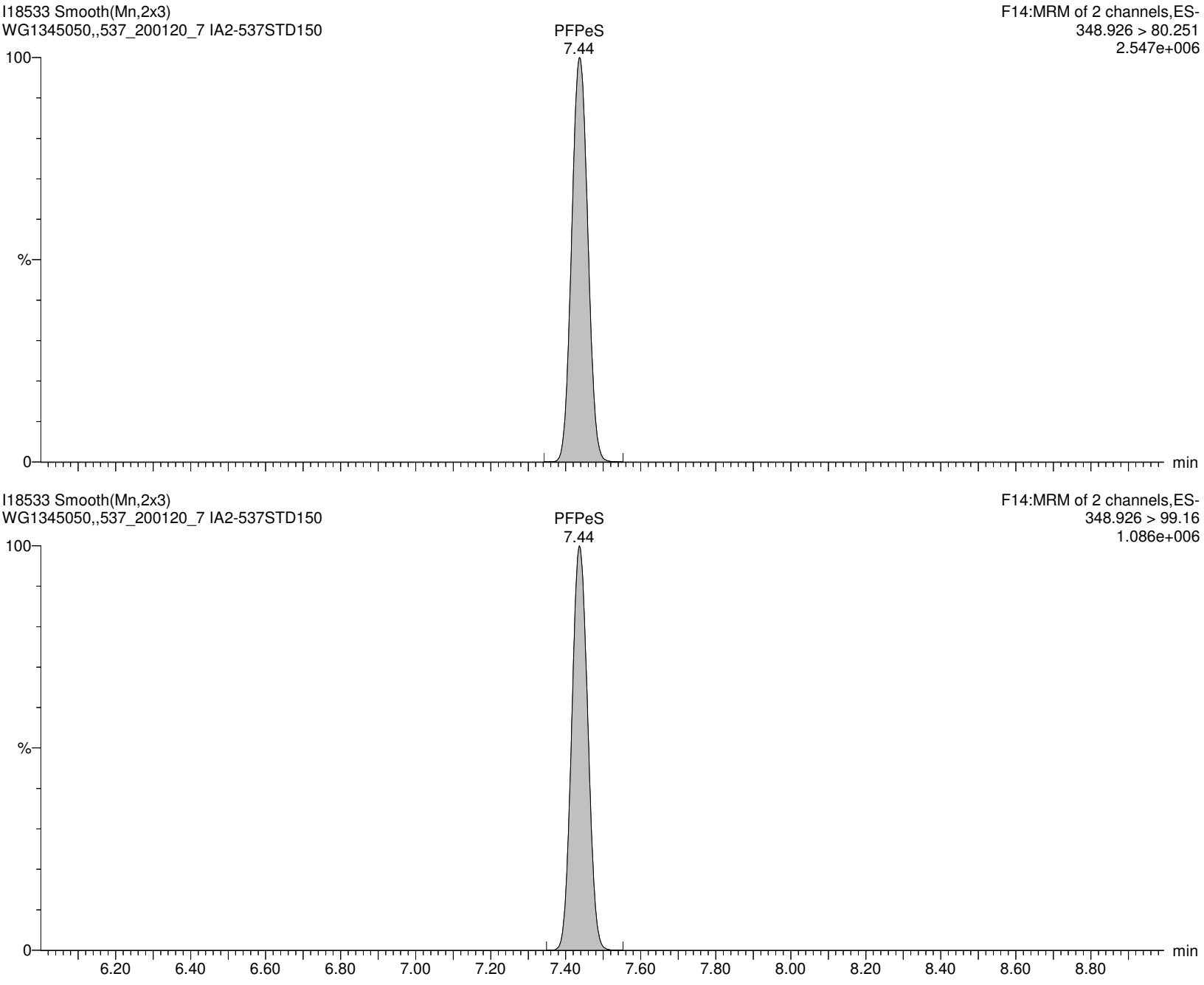

all concentration units in (ng/mL)

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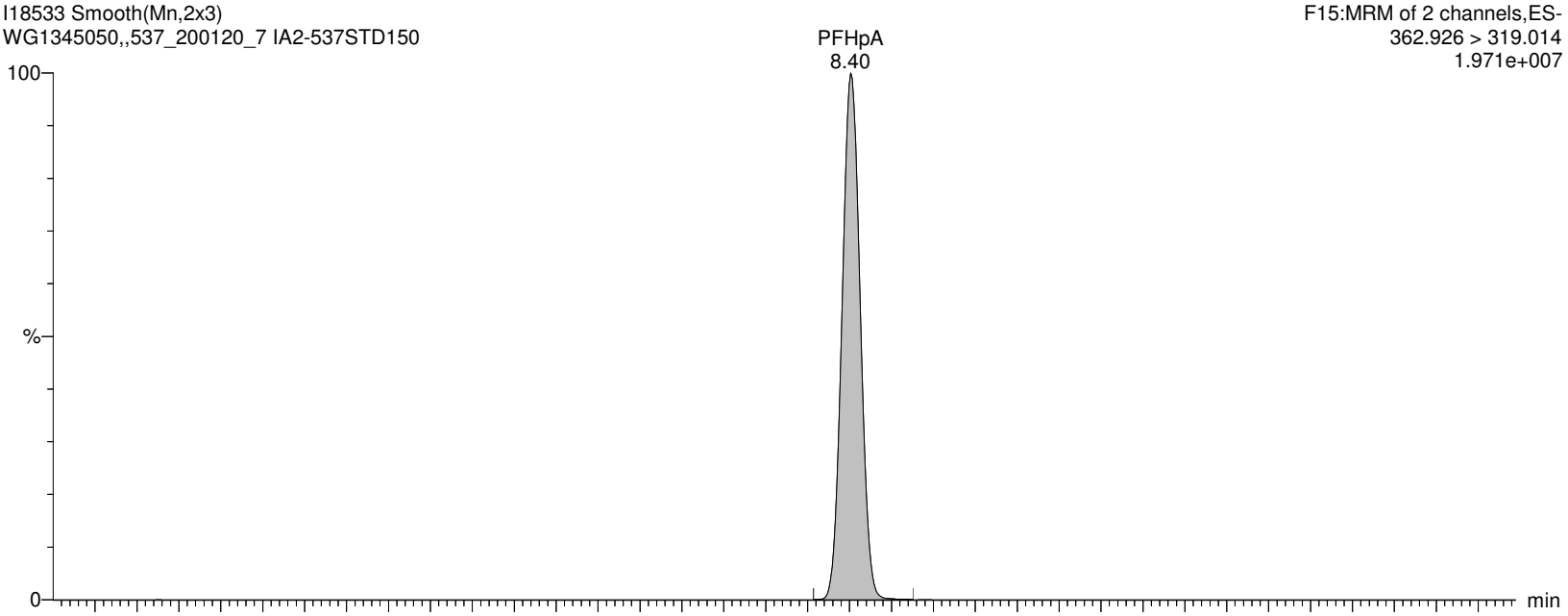

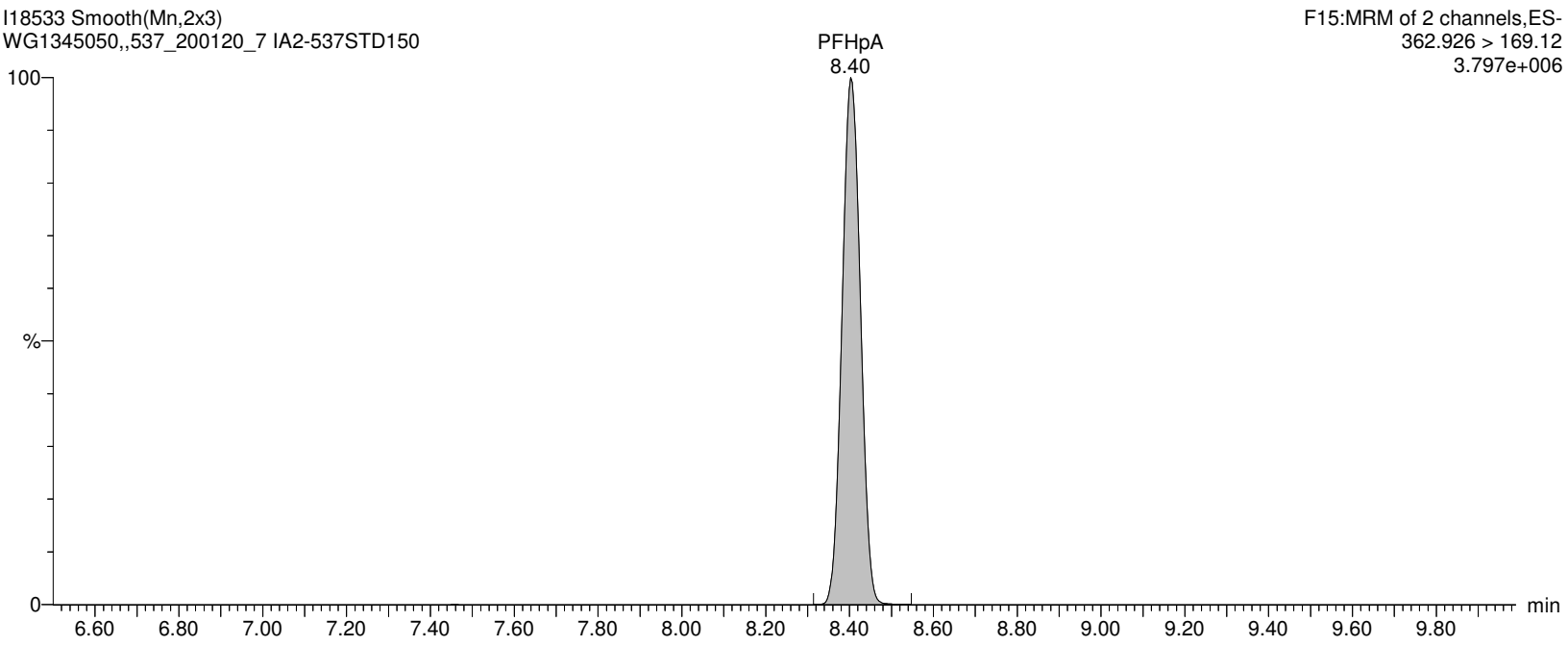

all concentration units in (ng/mL)

Alpha Analytical Inc.
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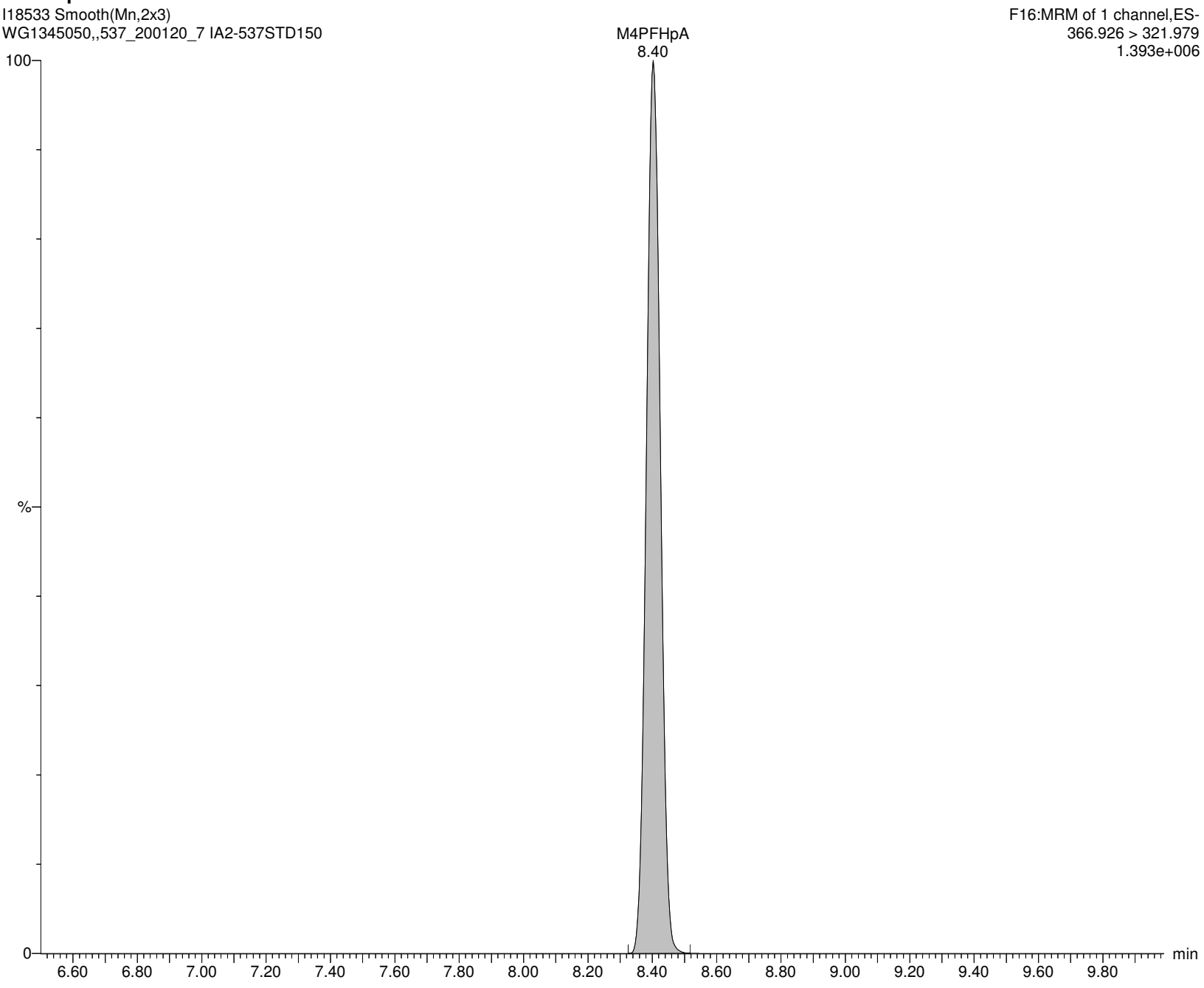

all concentration units in (ng/mL)

Alpha Analytical Inc.
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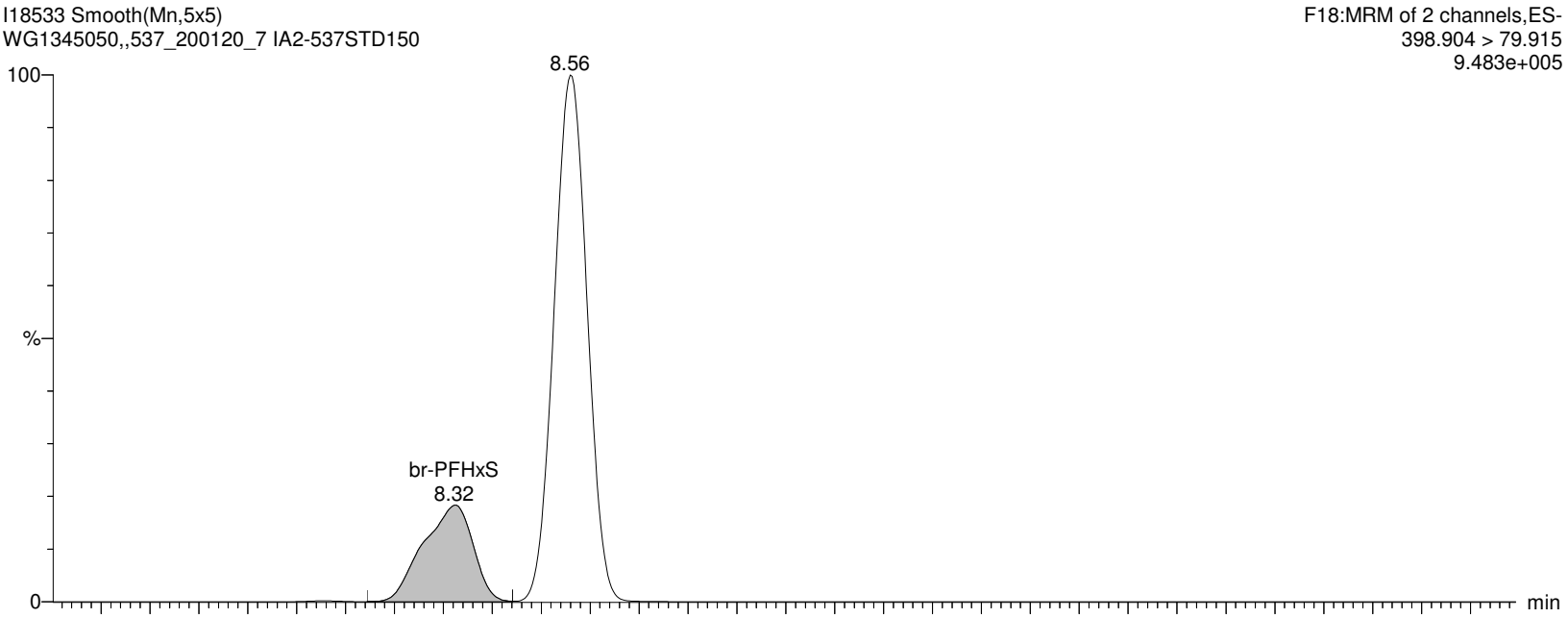

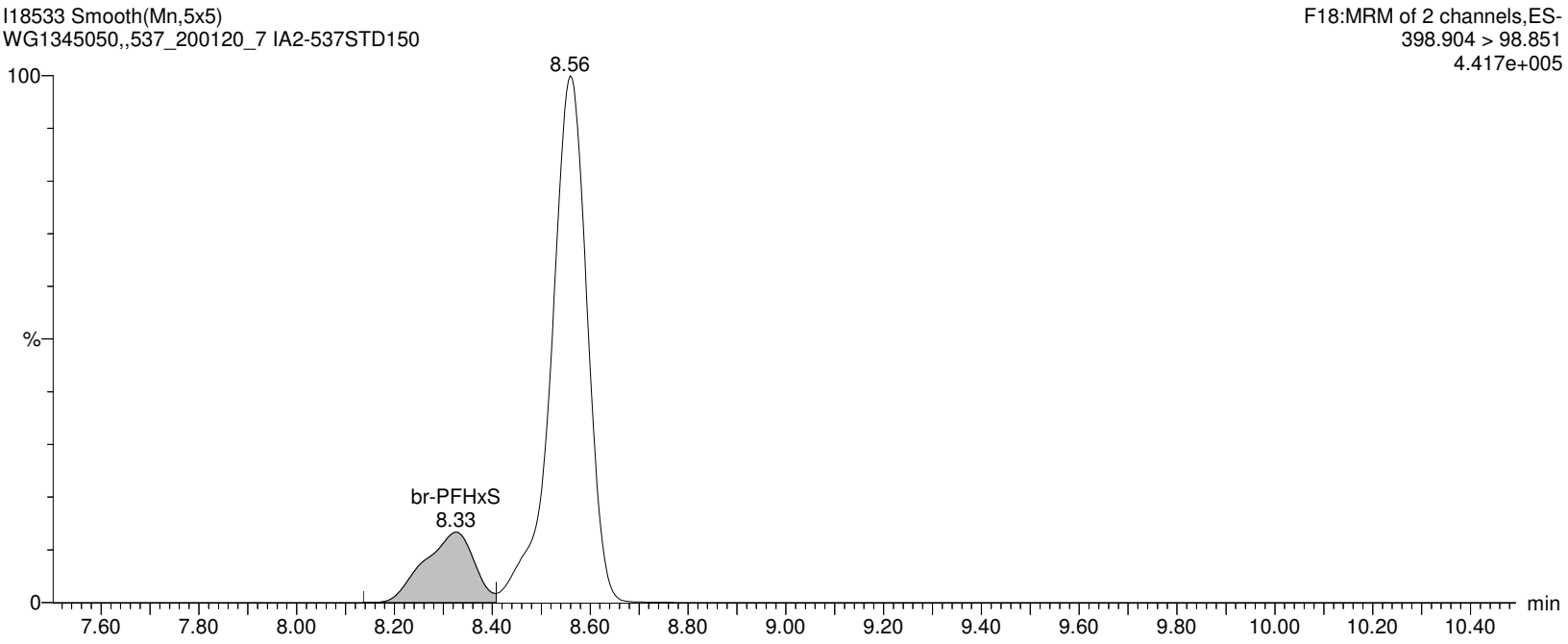

all concentration units in (ng/mL)

Alpha Analytical Inc.
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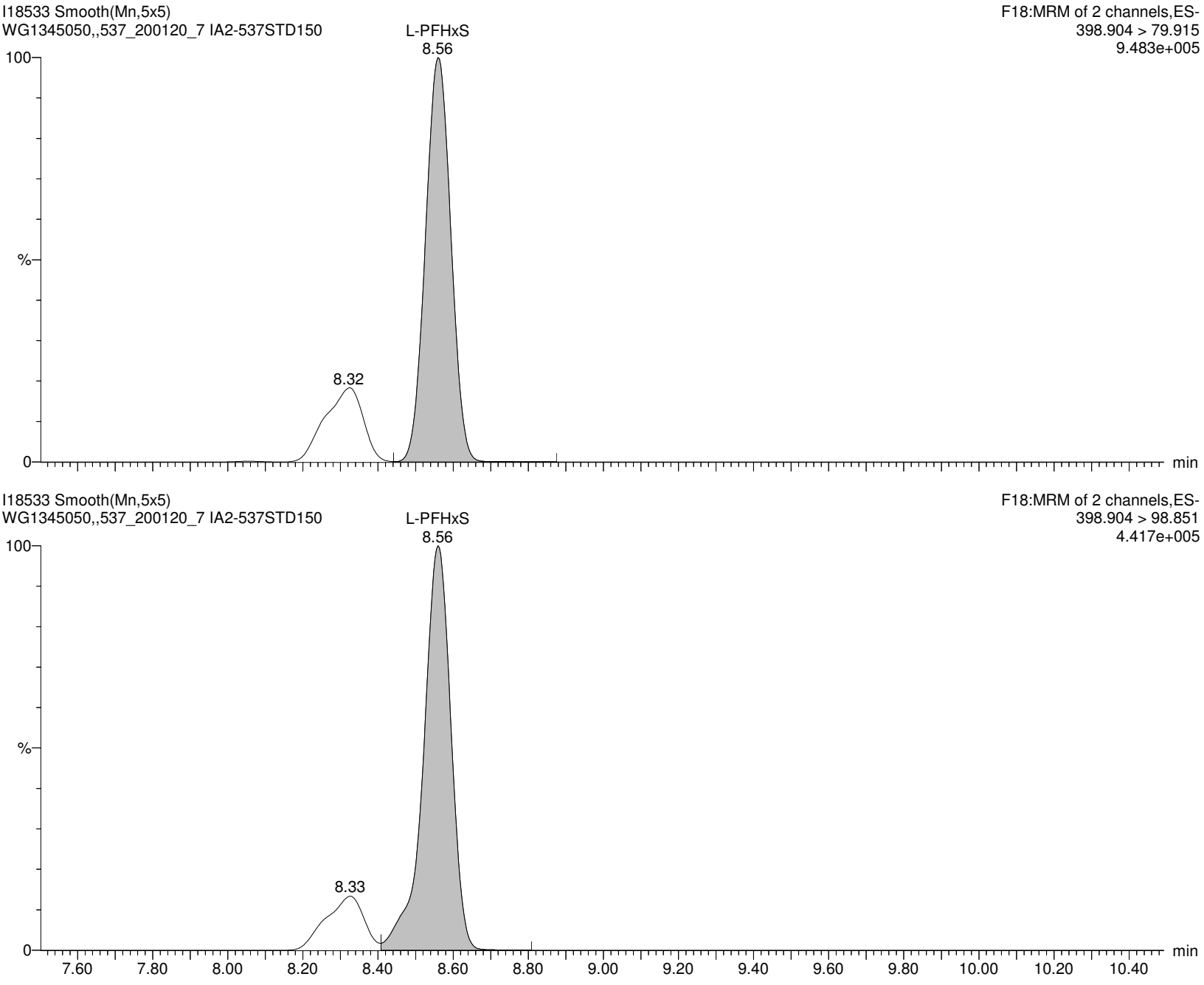

all concentration units in (ng/mL)

Alpha Analytical Inc.
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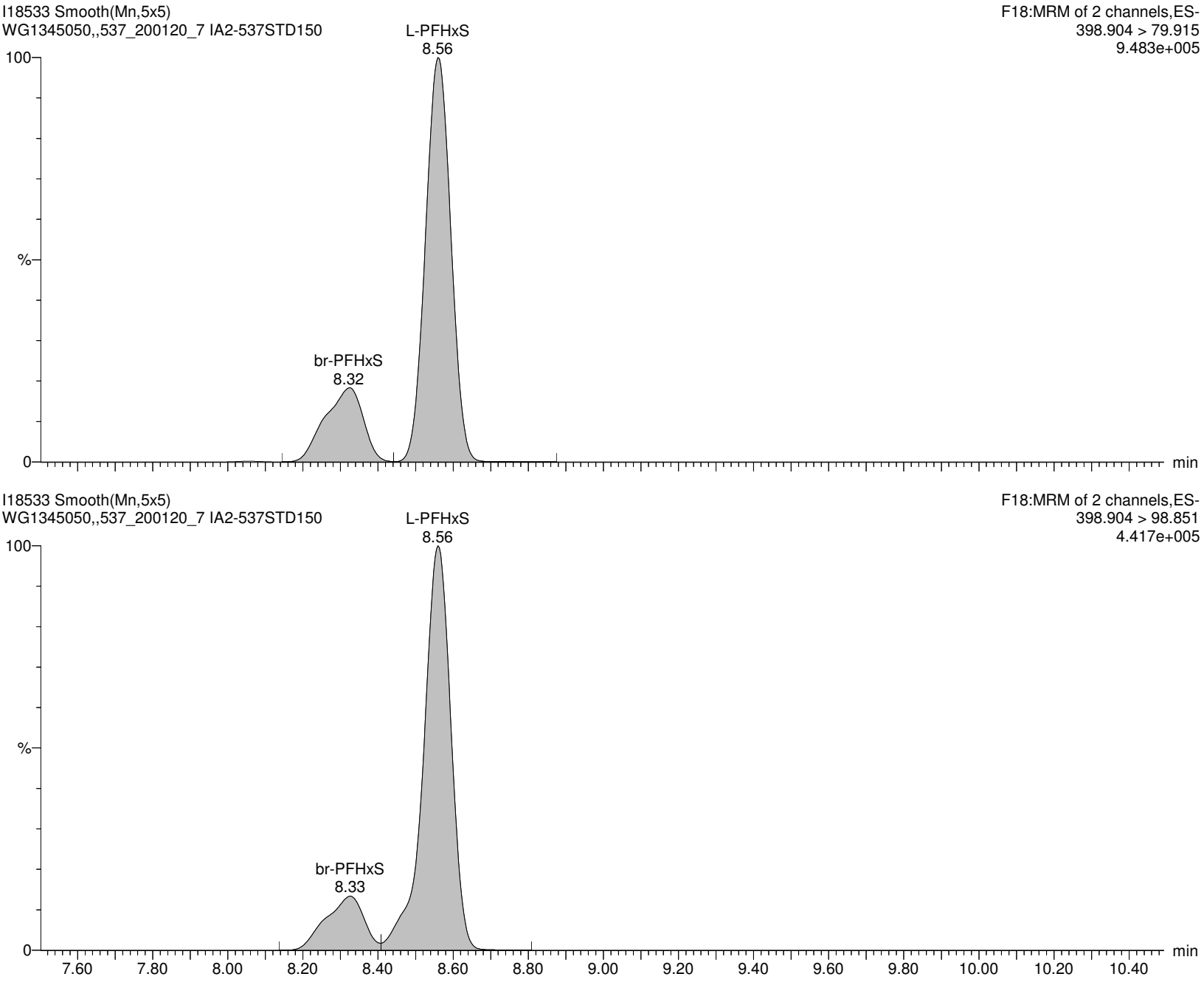

all concentration units in (ng/mL)

Alpha Analytical Inc.
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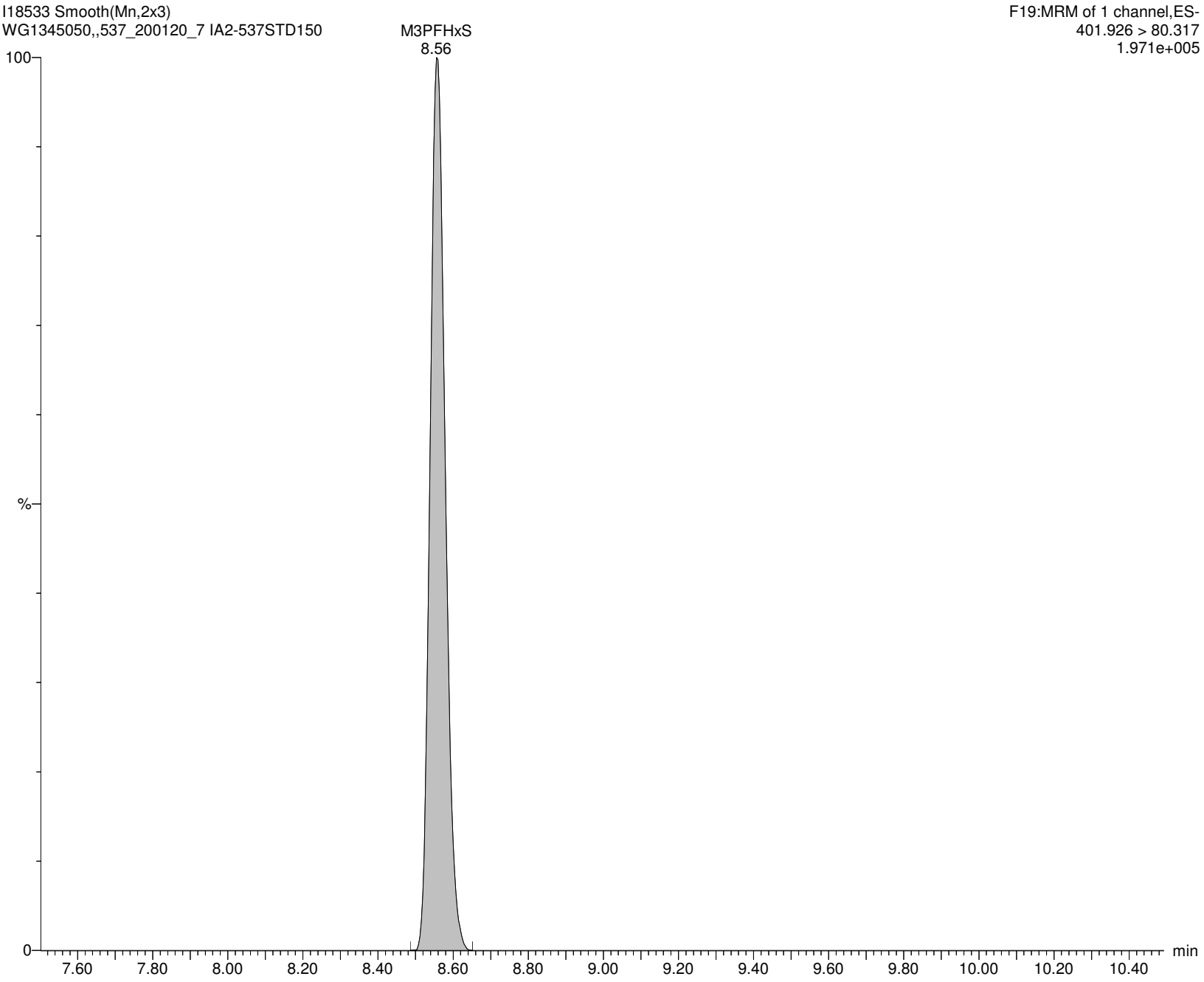

all concentration units in (ng/mL)

Alpha Analytical Inc.
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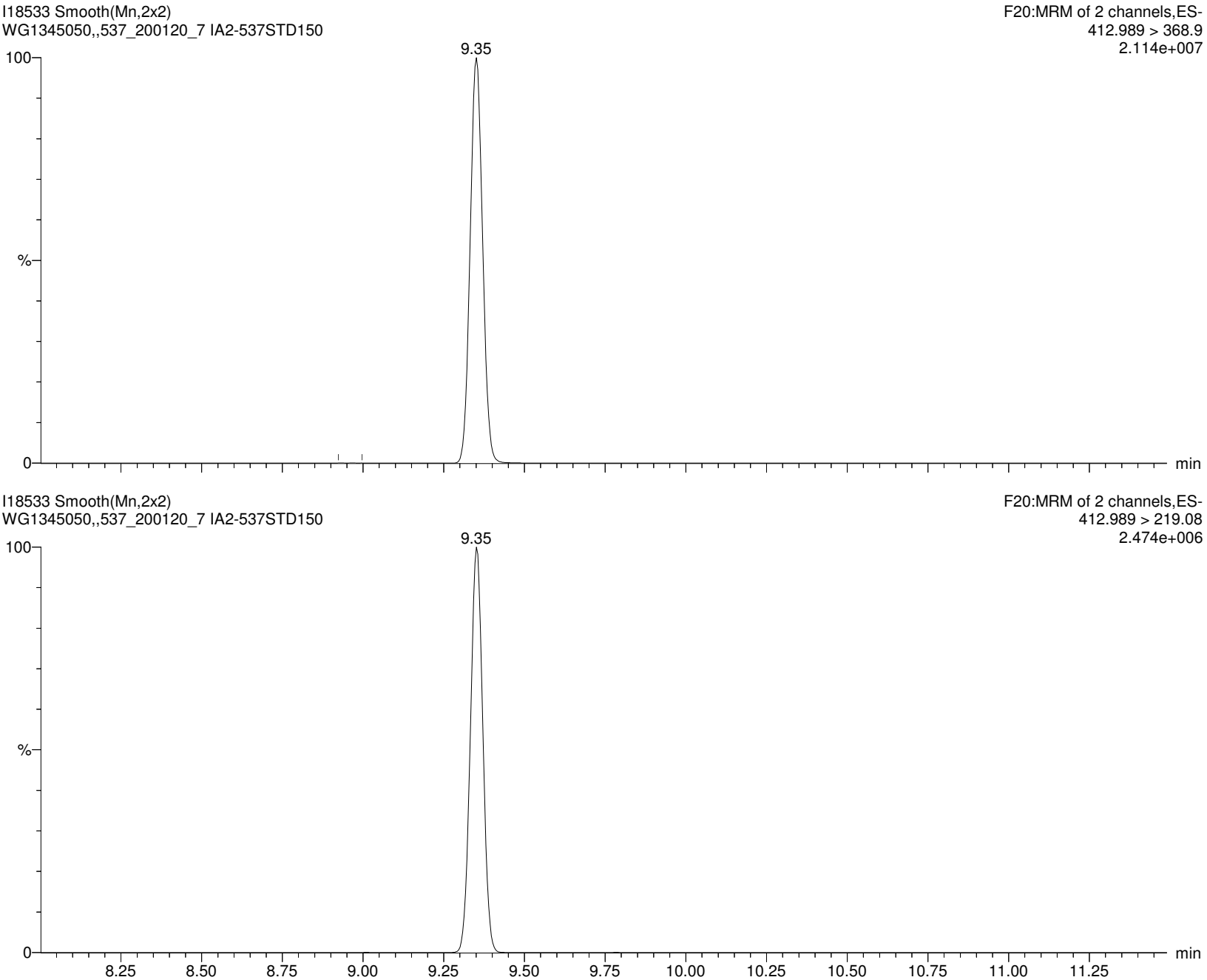

all concentration units in (ng/mL)

Alpha Analytical Inc.
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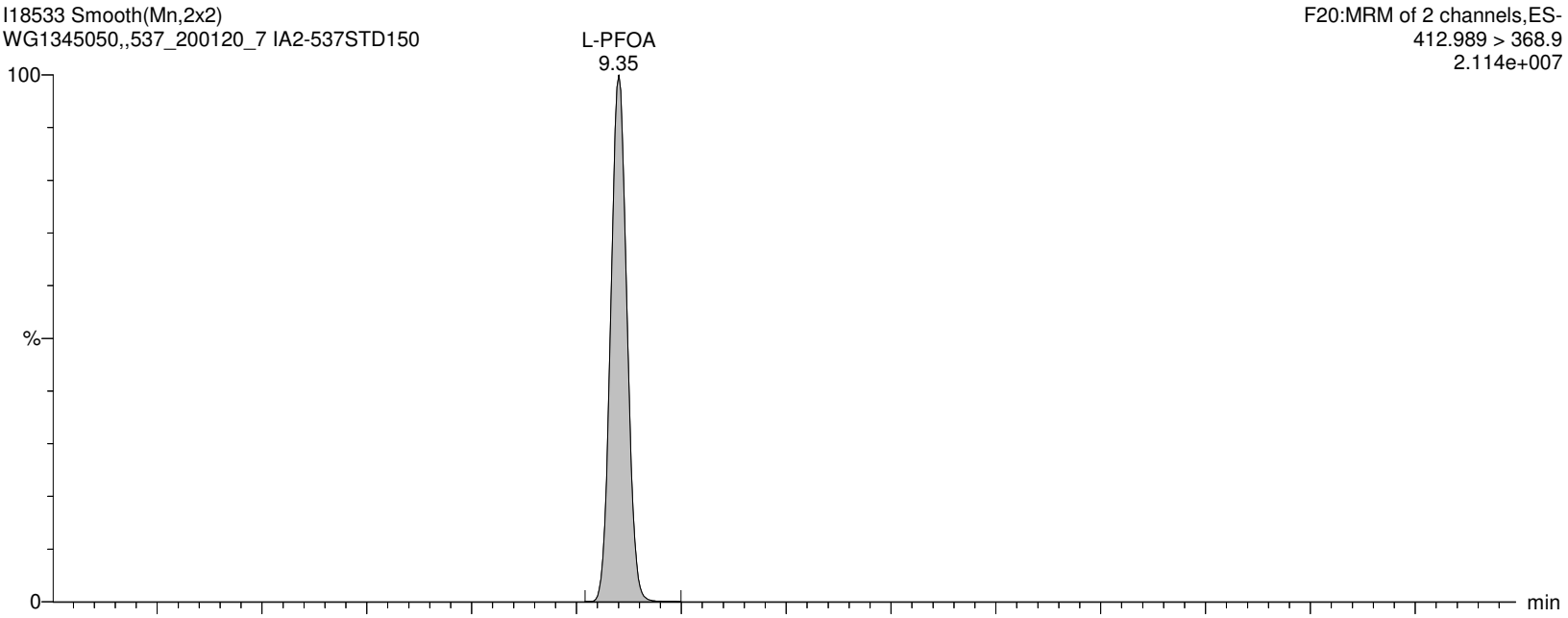

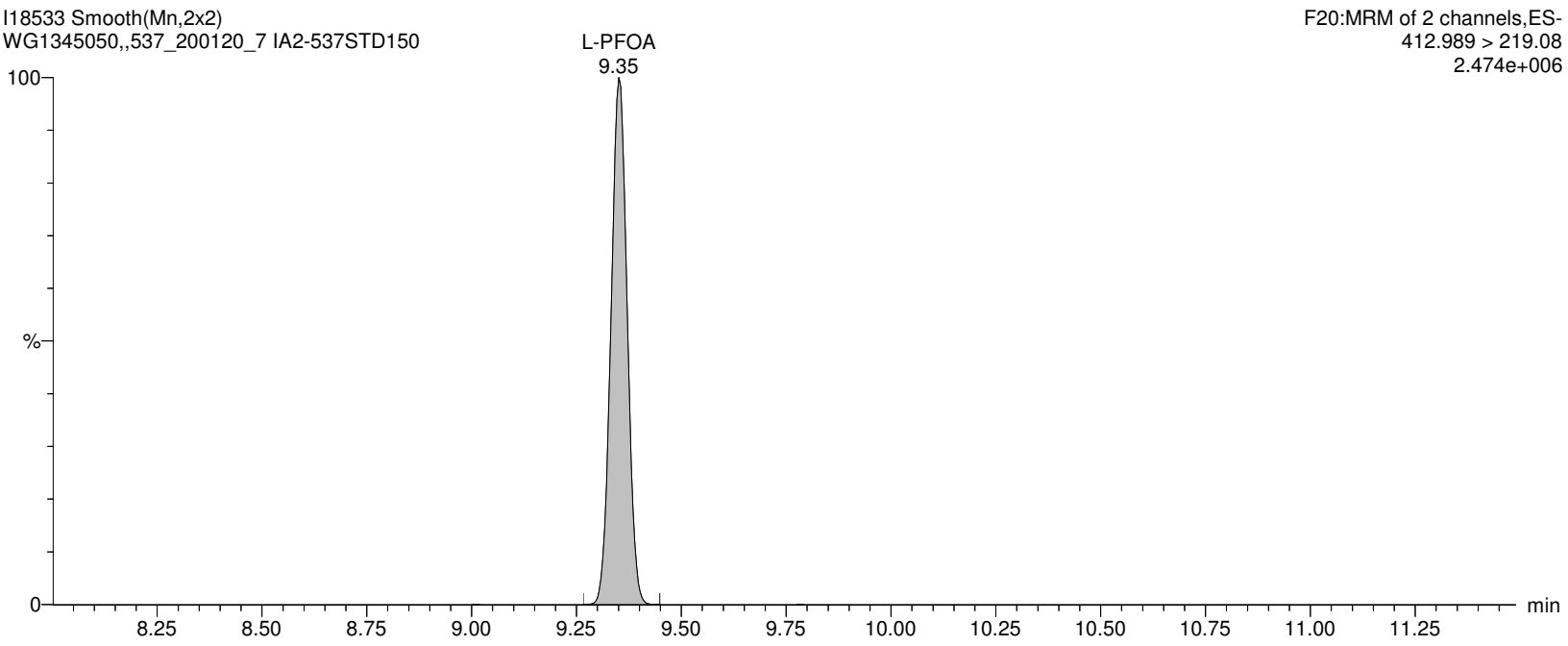

all concentration units in (ng/mL)

Alpha Analytical Inc.
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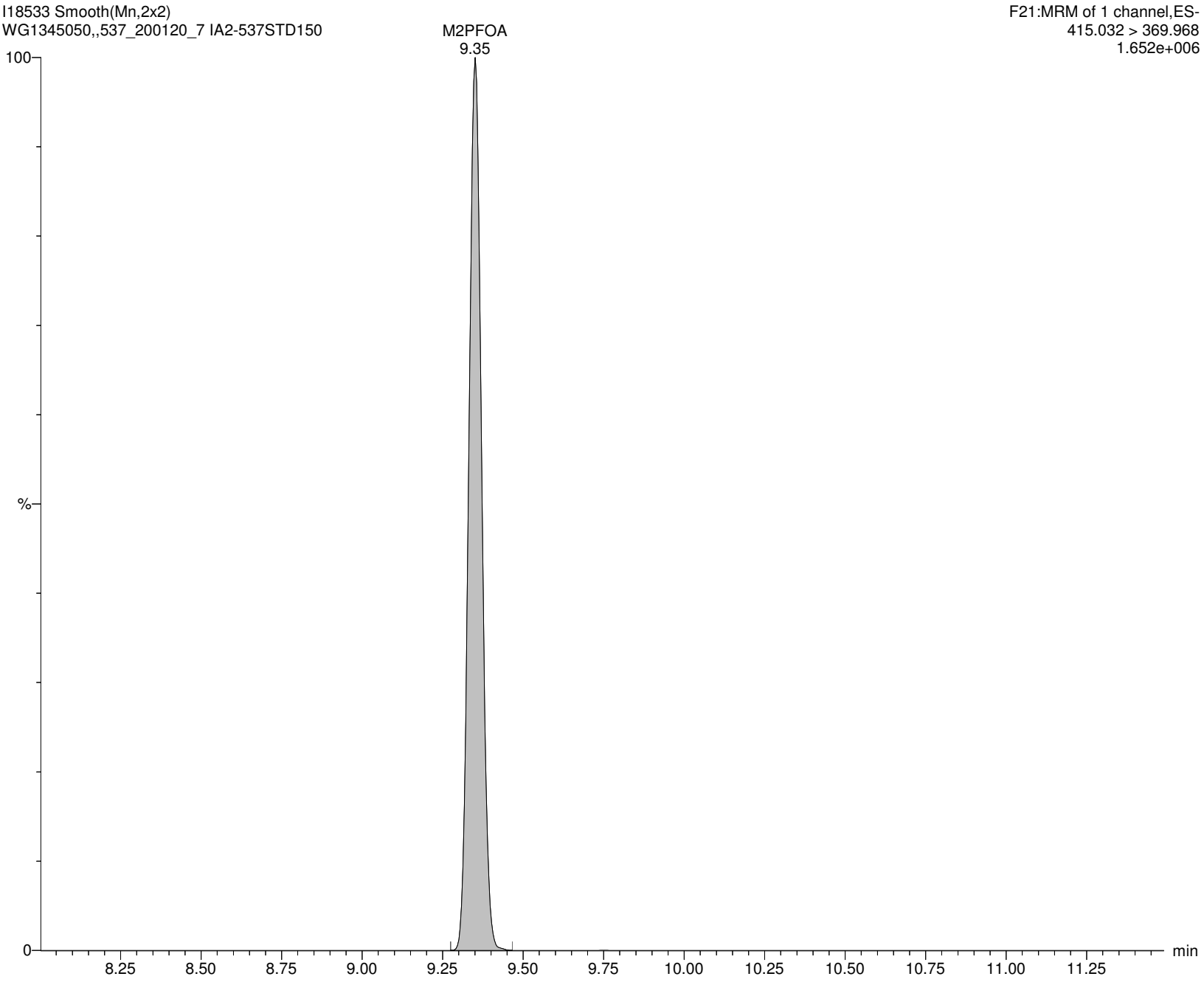

all concentration units in (ng/mL)

Alpha Analytical Inc.
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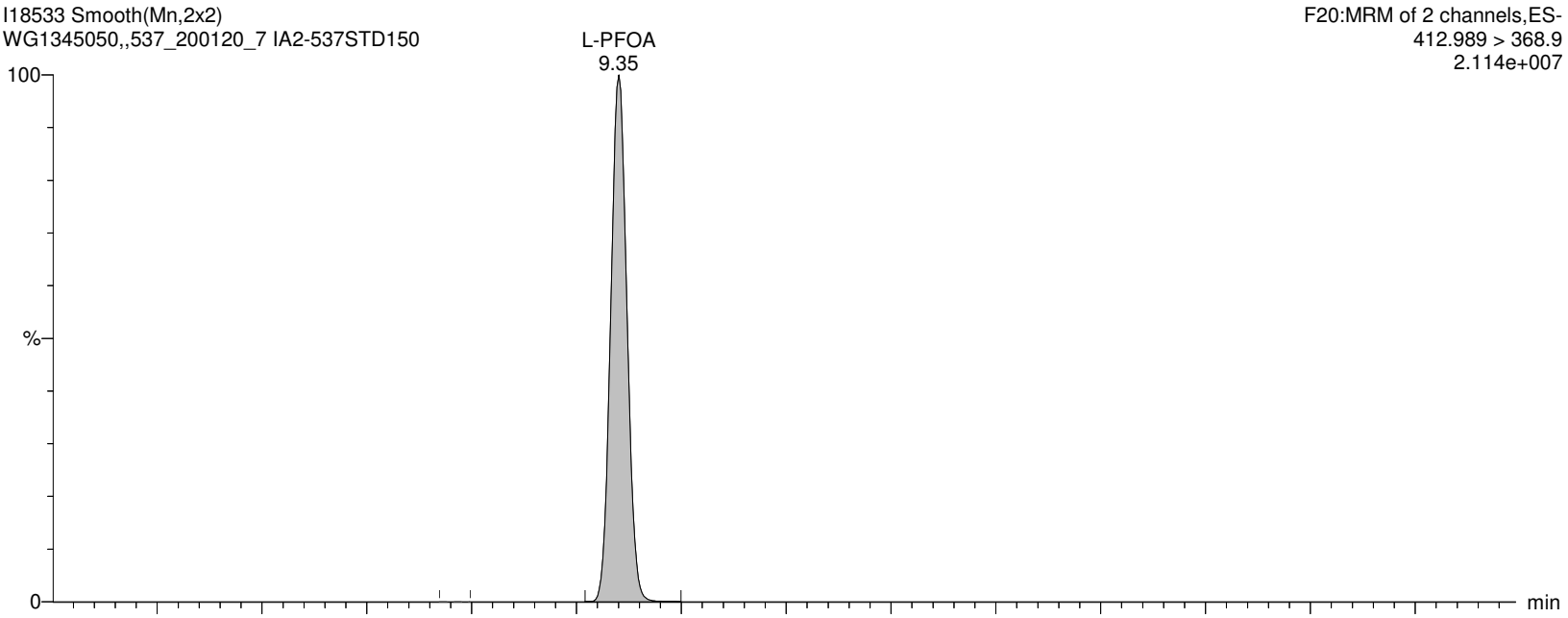

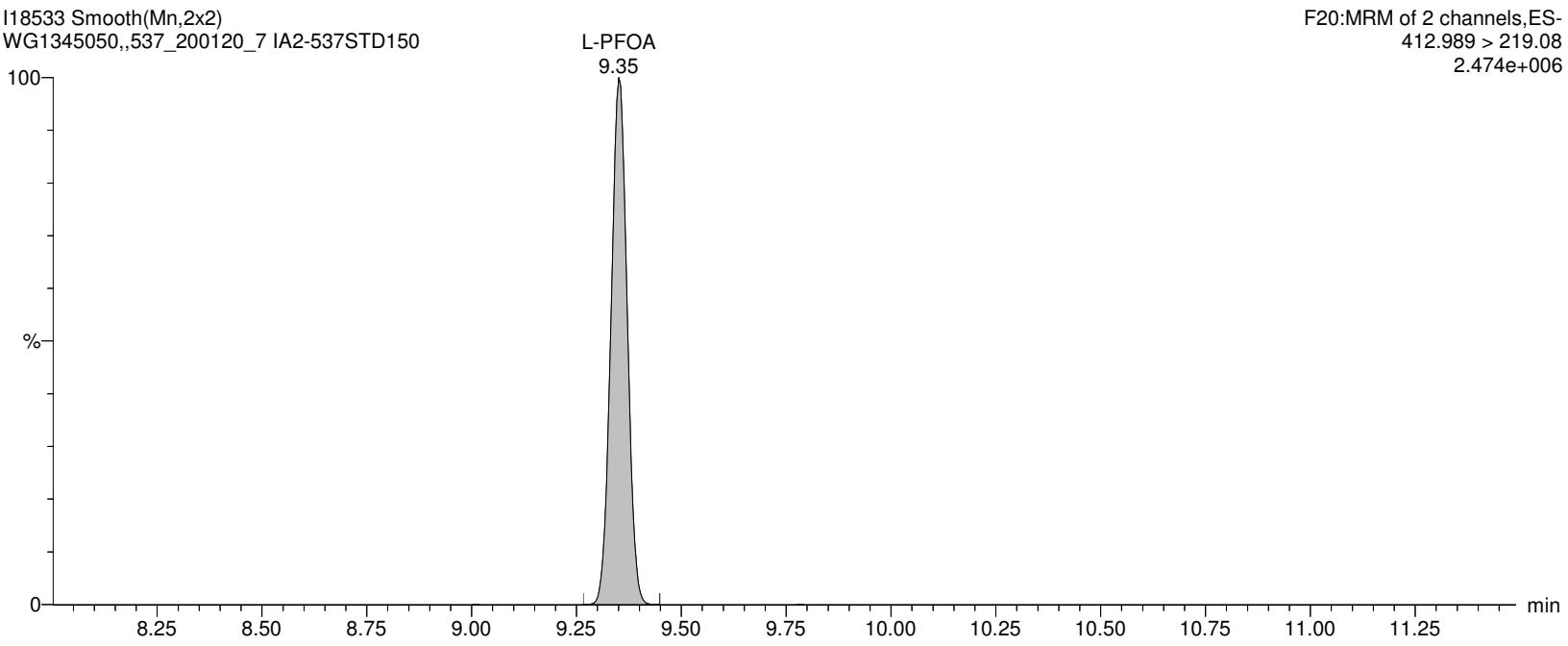

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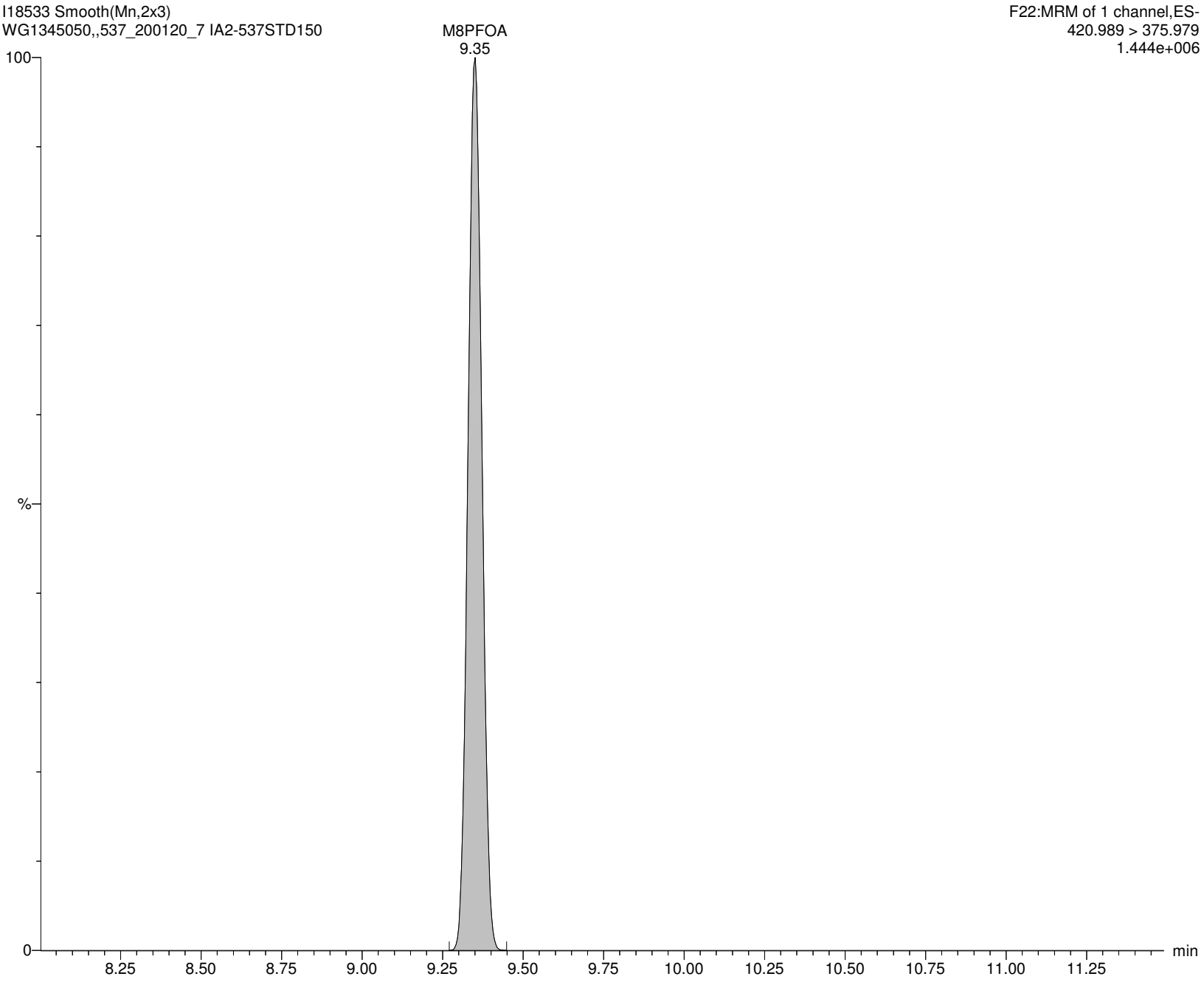

all concentration units in (ng/mL)

Alpha Analytical Inc.
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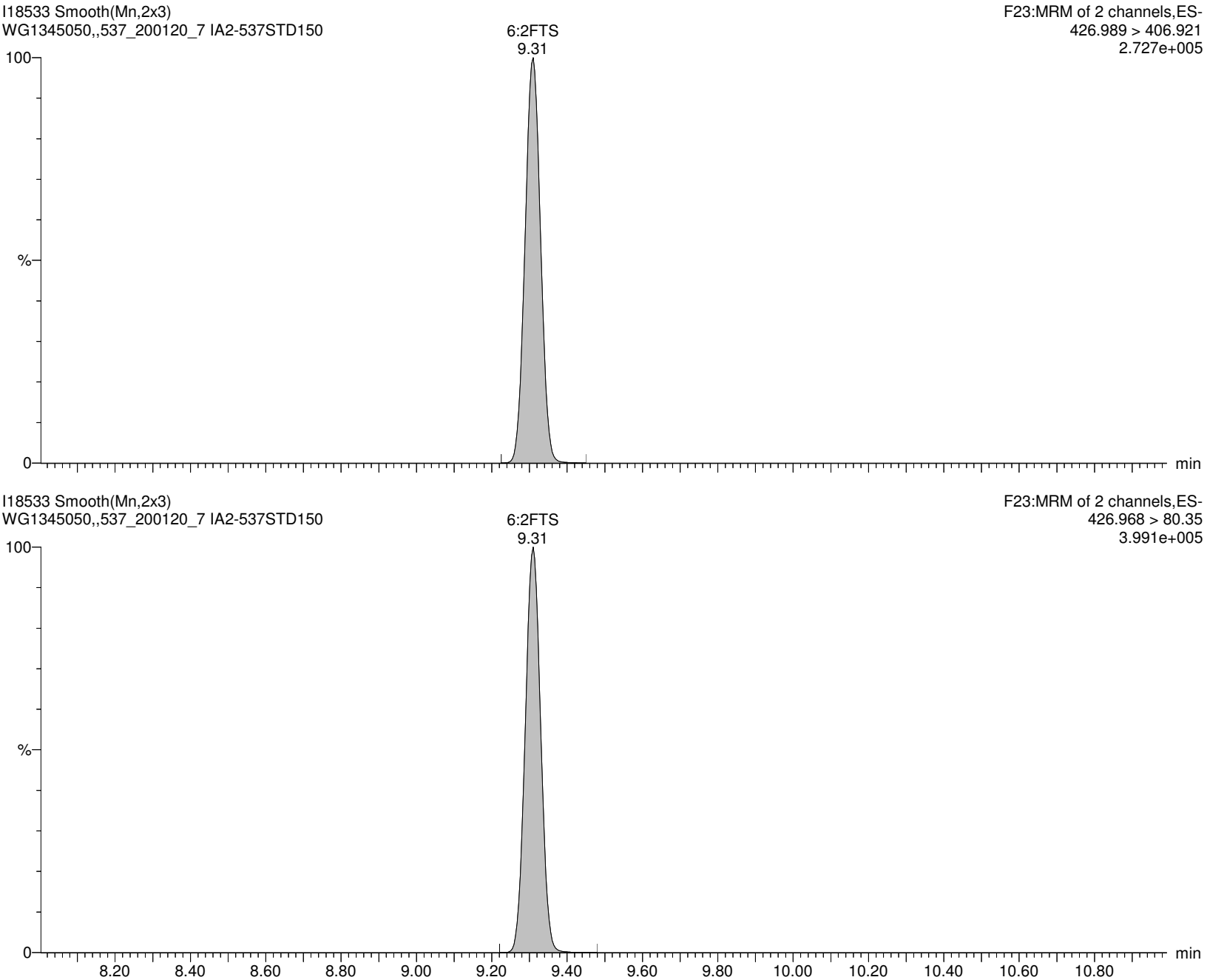
6:2FTS



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Instrument: XEVO-TQSmicro#QEA0276
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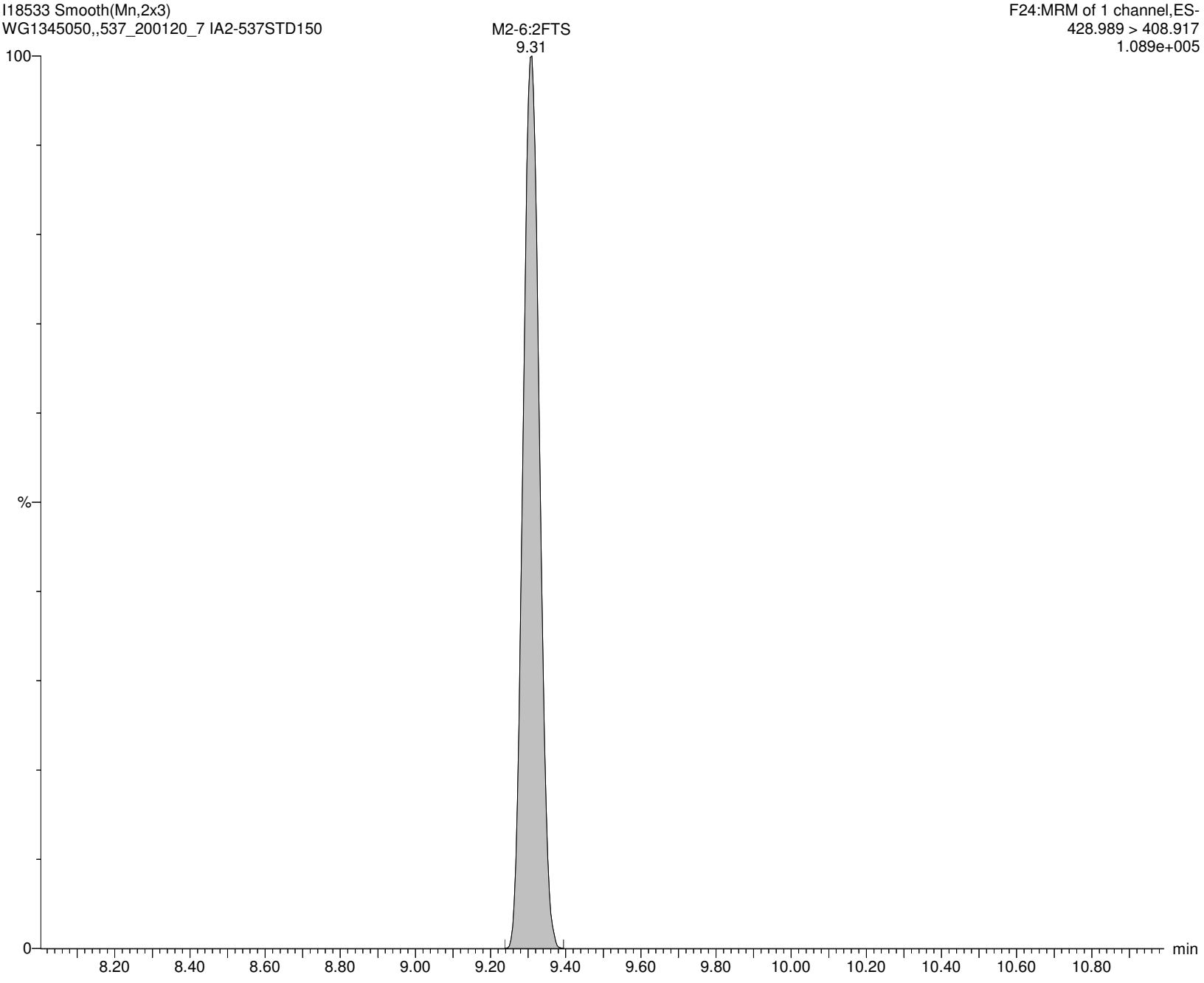

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:54 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:08:31
Description: WG1345050,,537_200120_7
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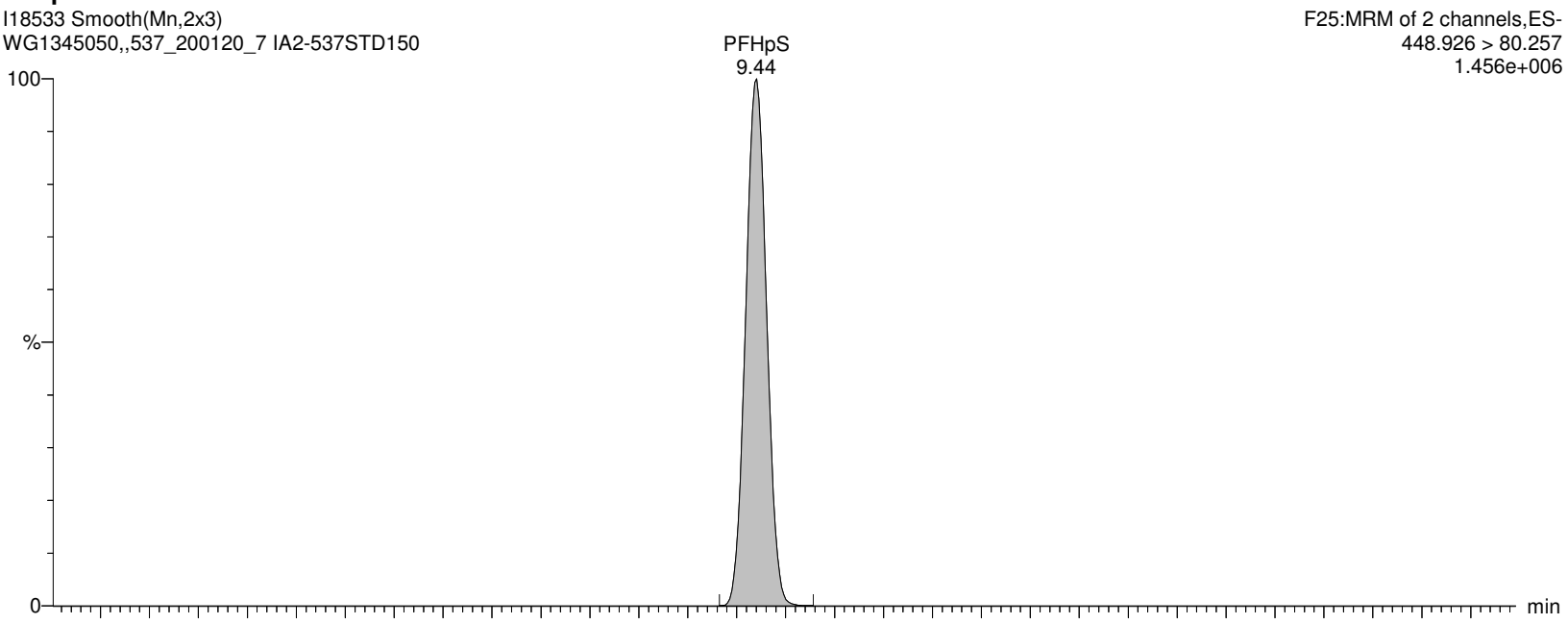

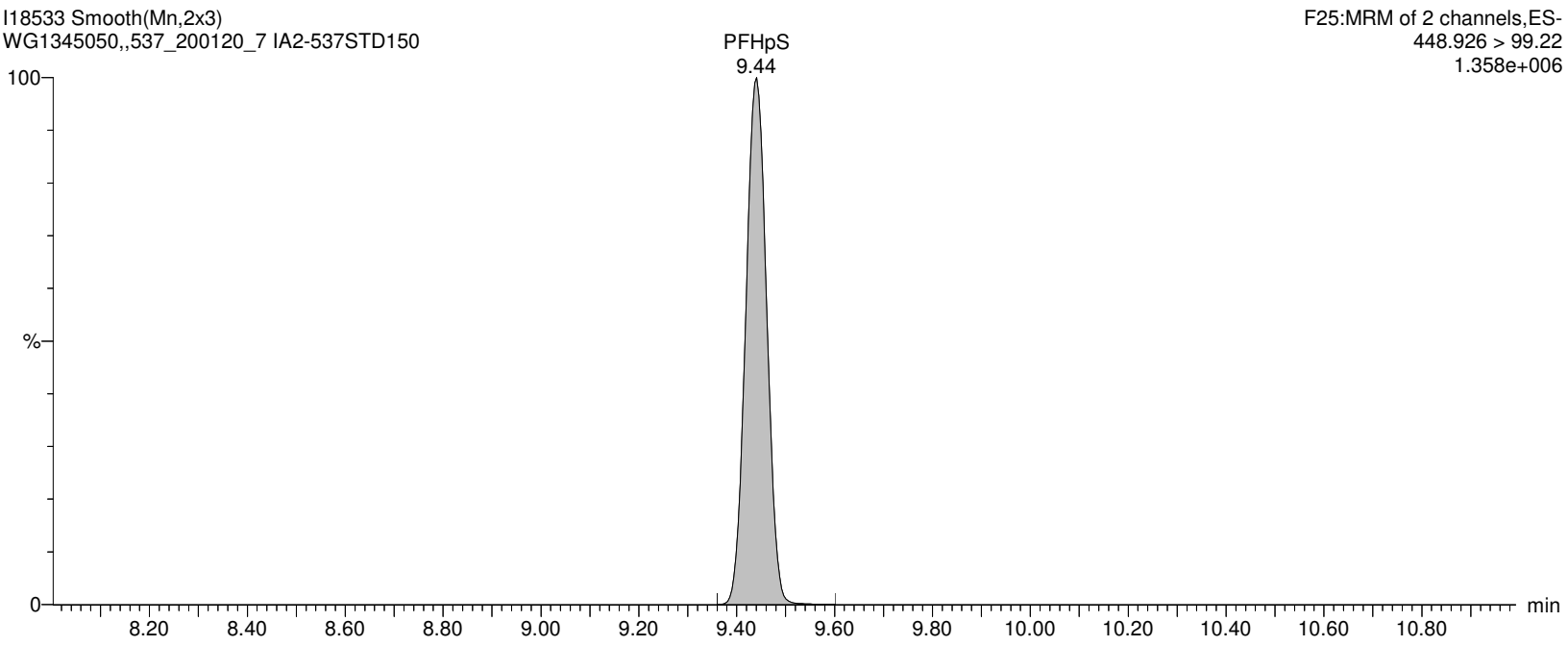

all concentration units in (ng/mL)

Alpha Analytical Inc.
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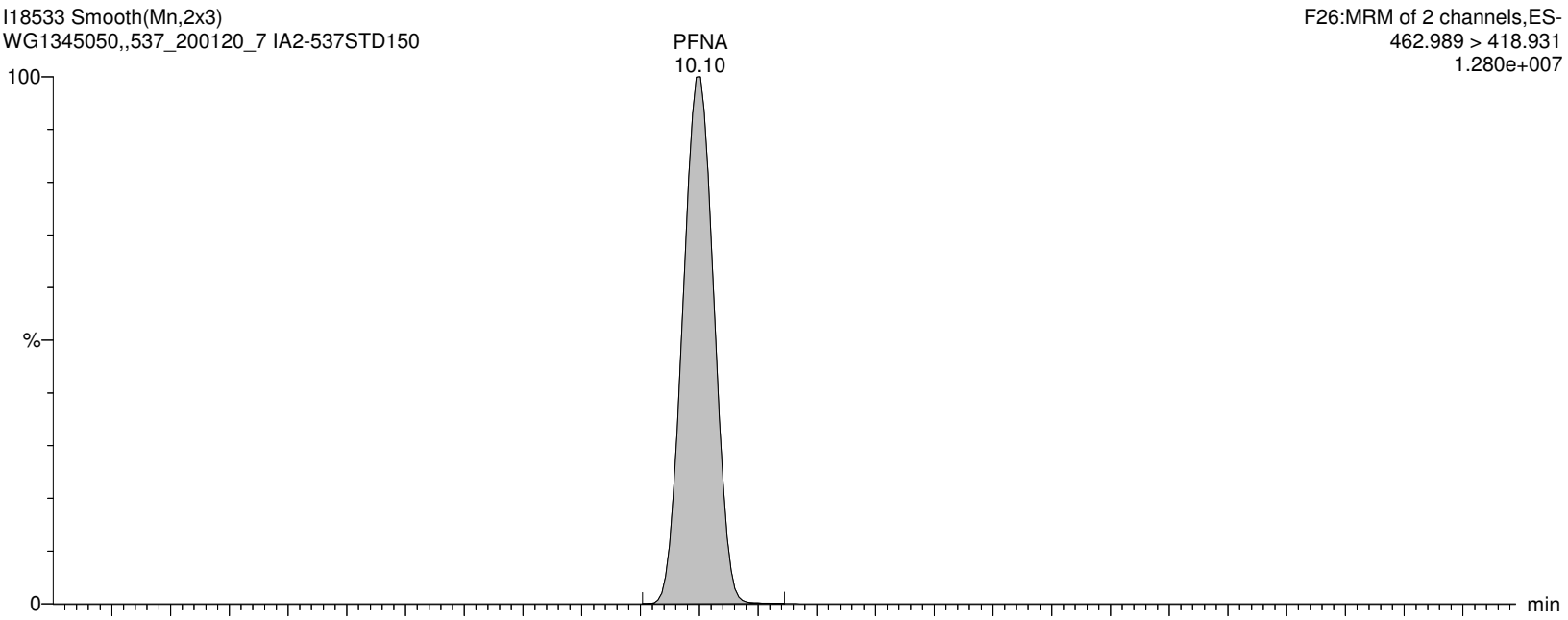

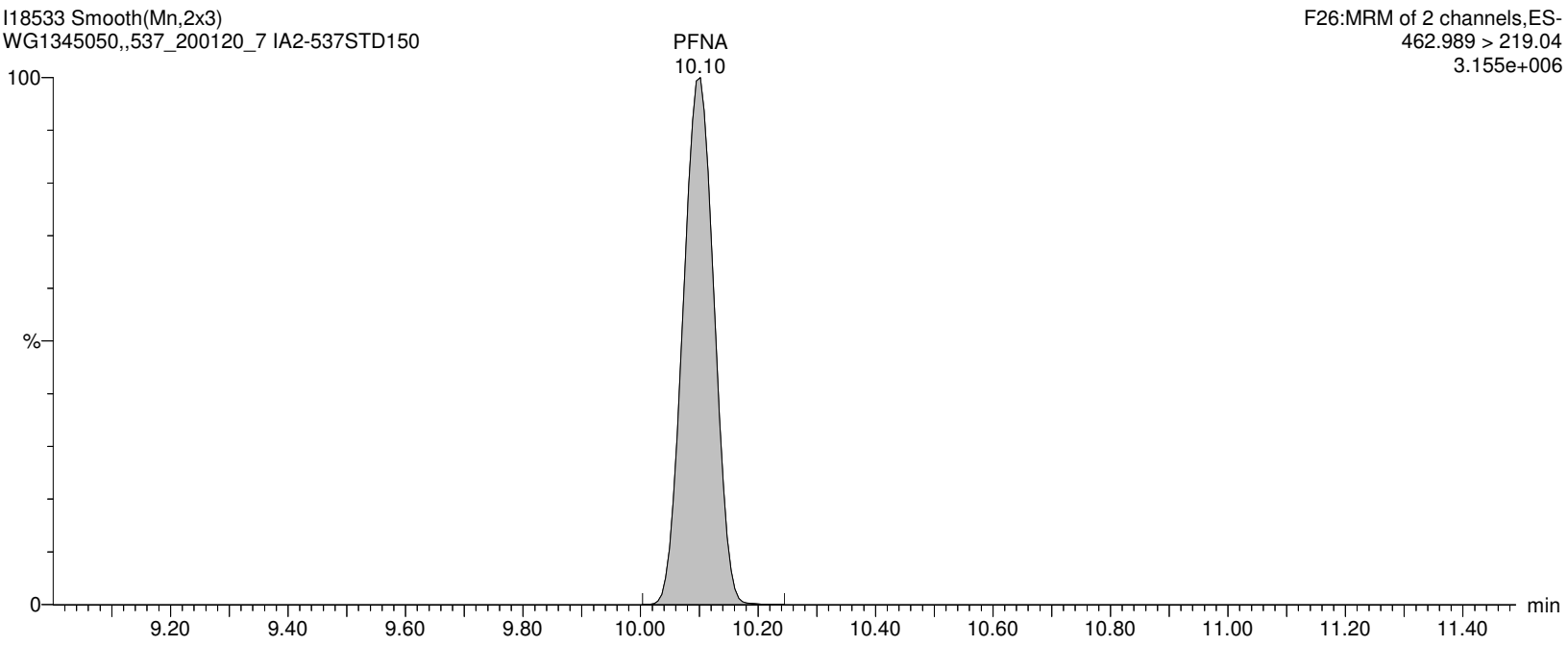

all concentration units in (ng/mL)

Alpha Analytical Inc.
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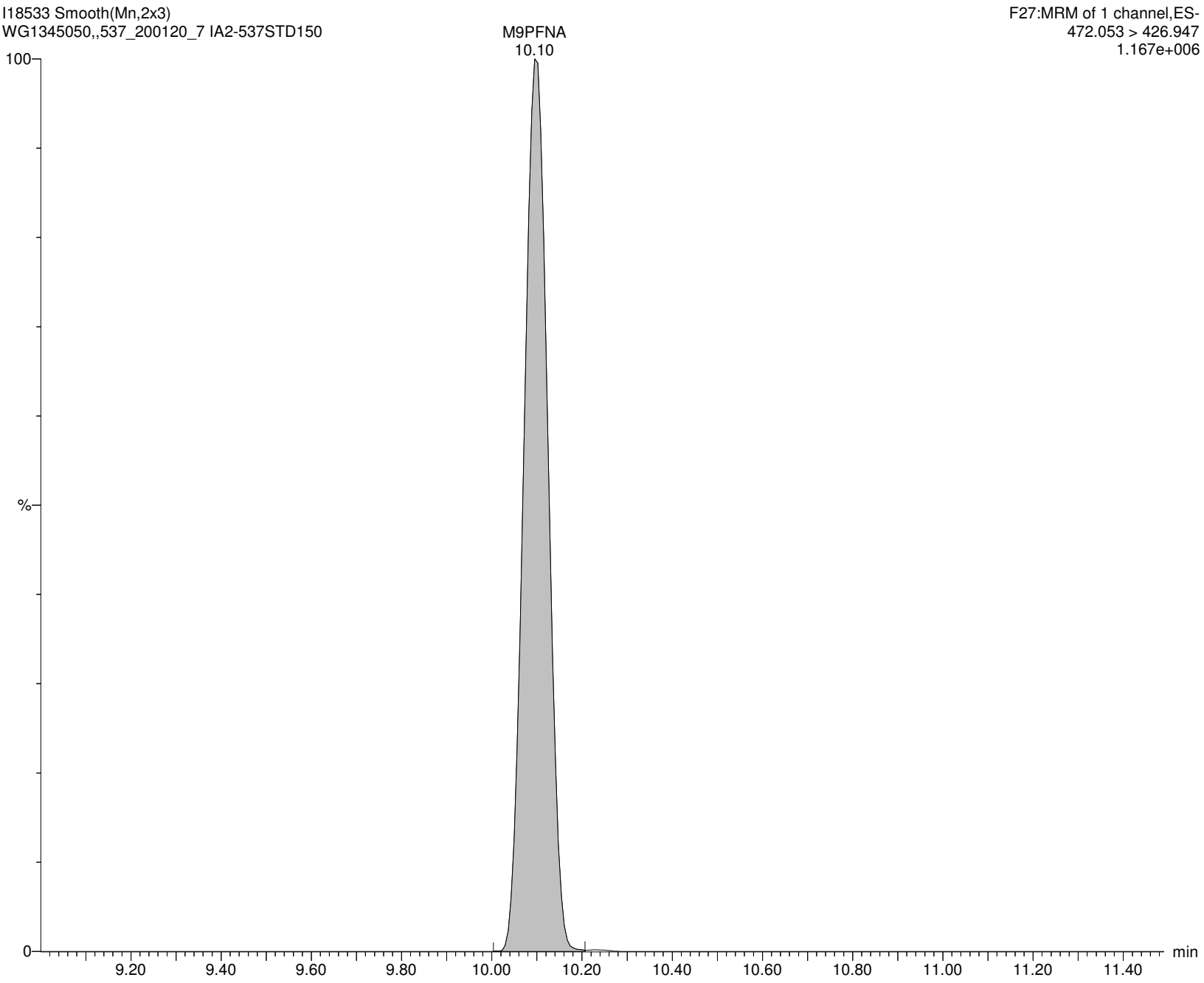

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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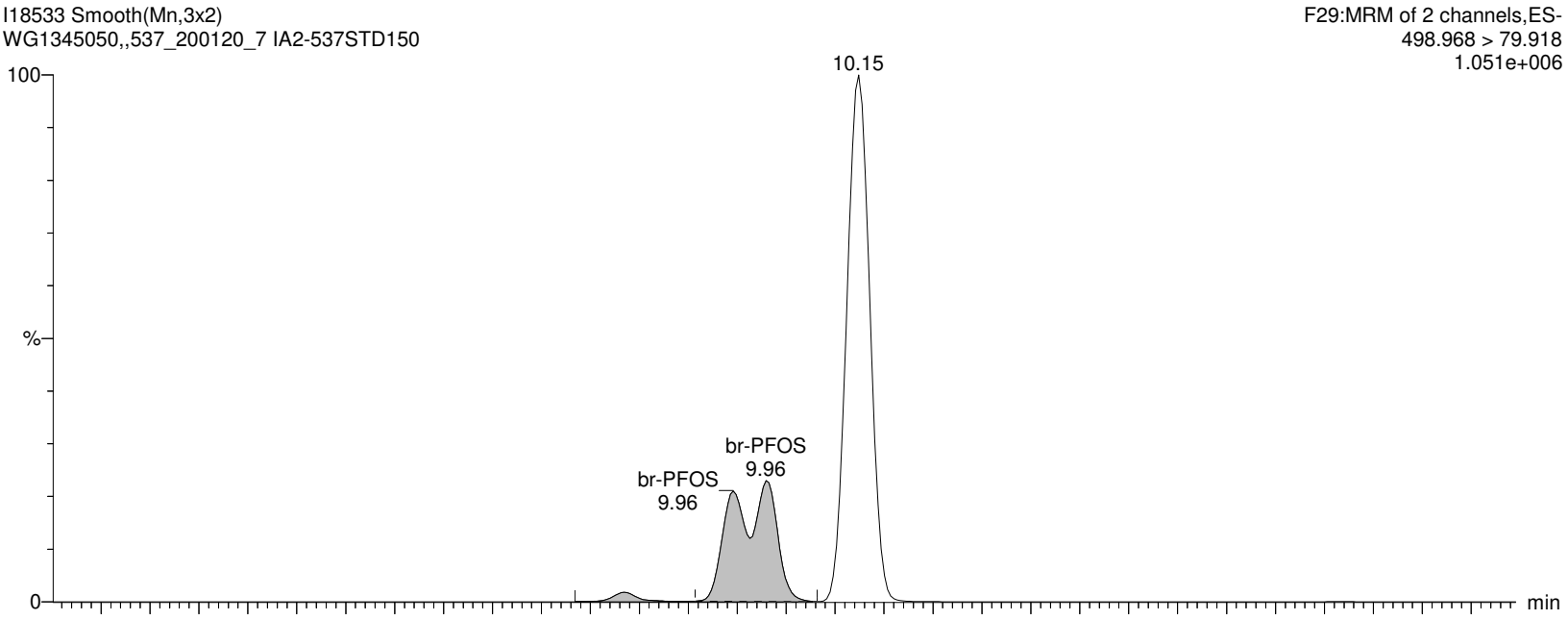

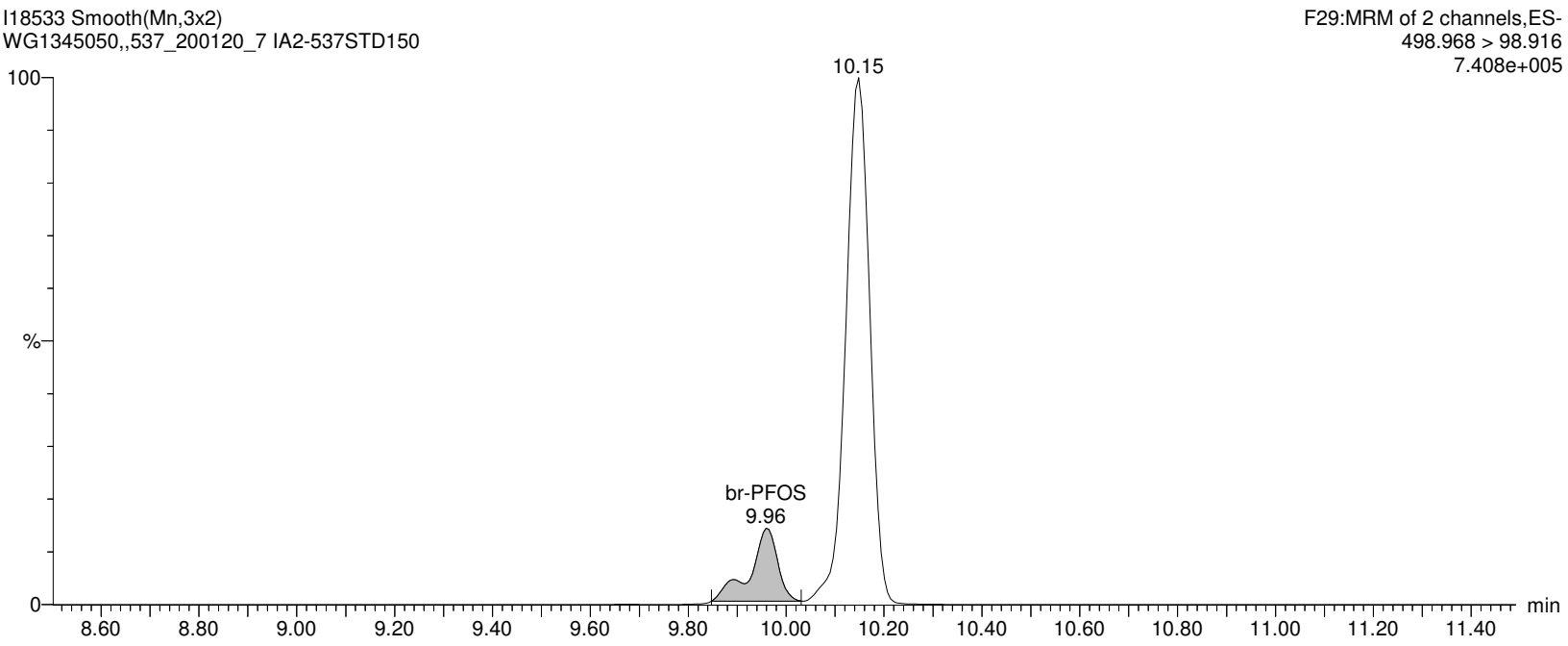

all concentration units in (ng/mL)

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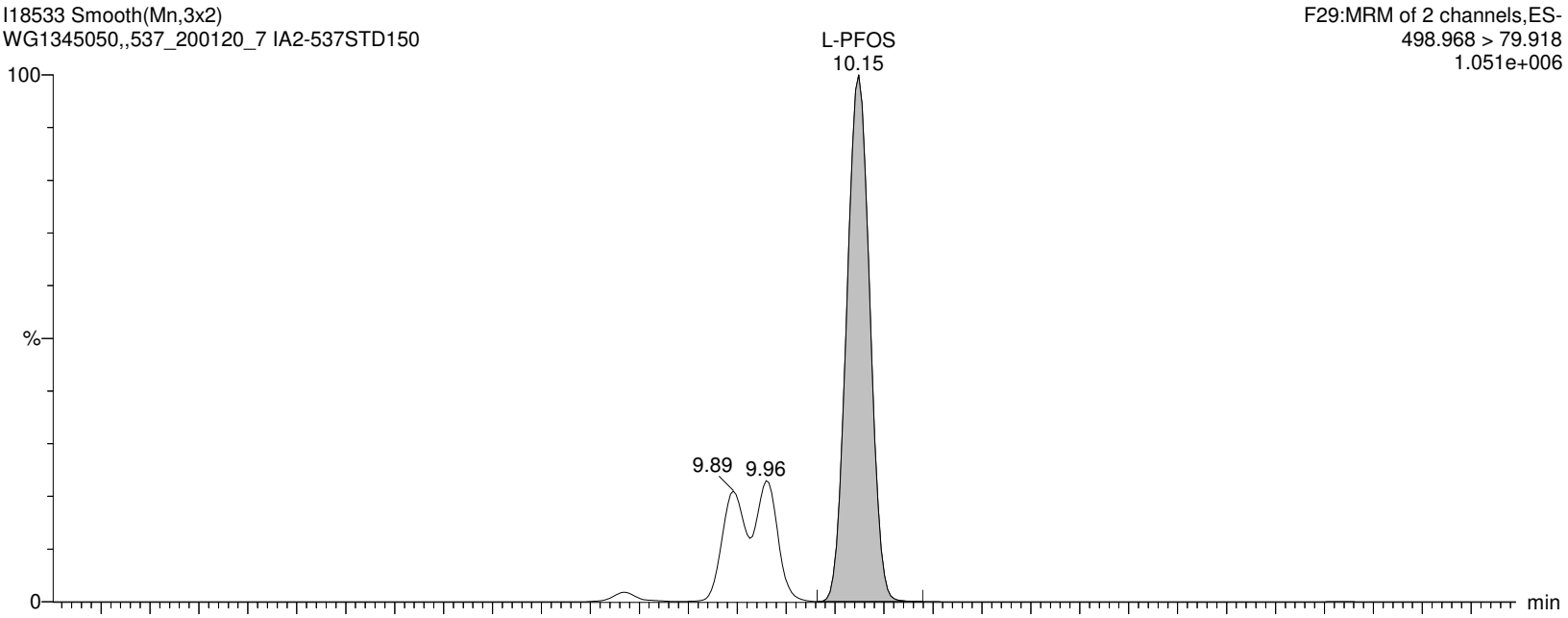

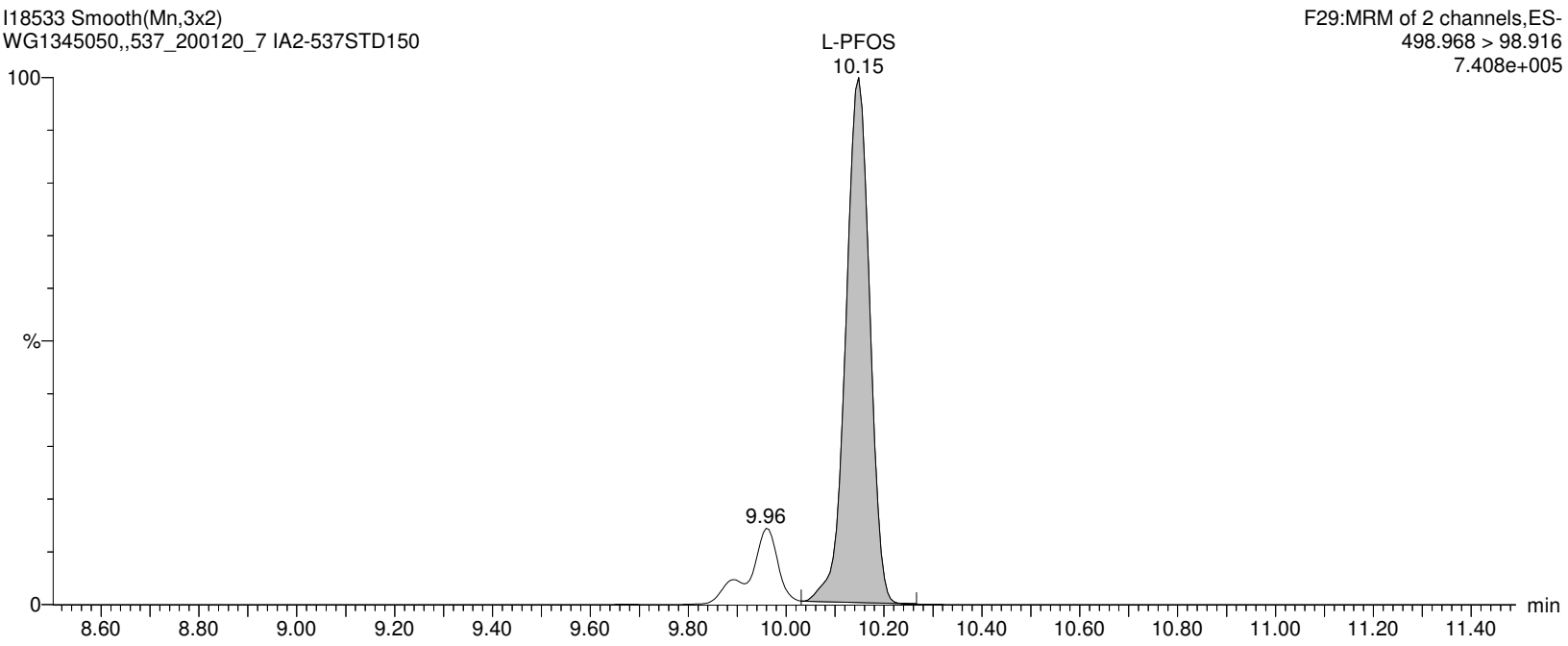

all concentration units in (ng/mL)

Alpha Analytical Inc.
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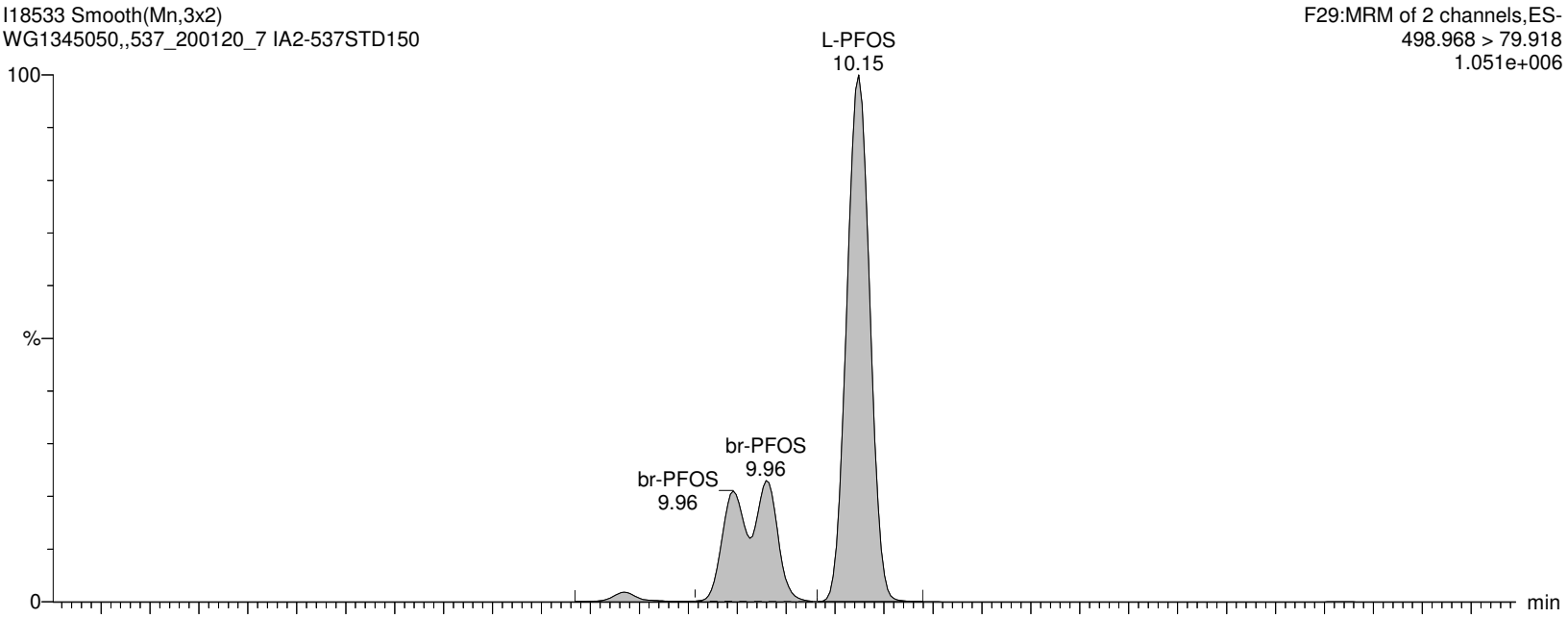
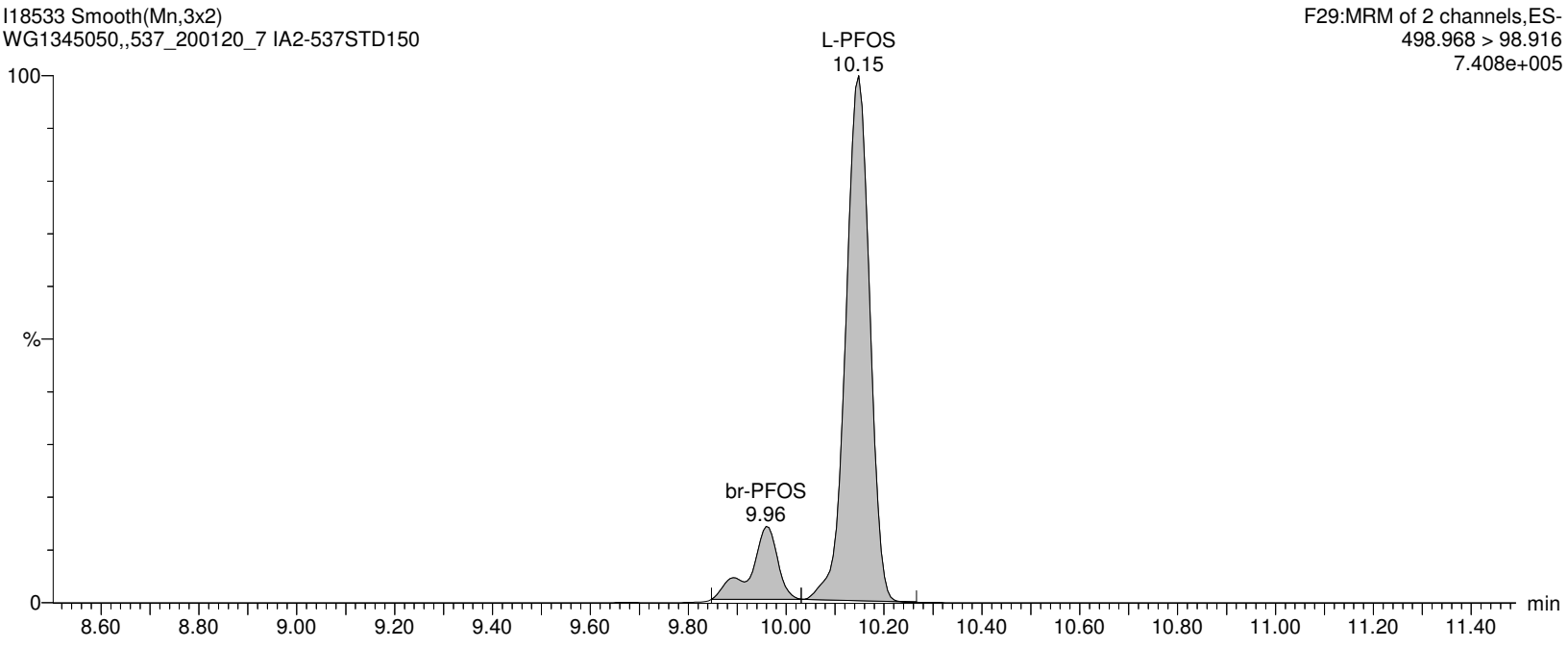
PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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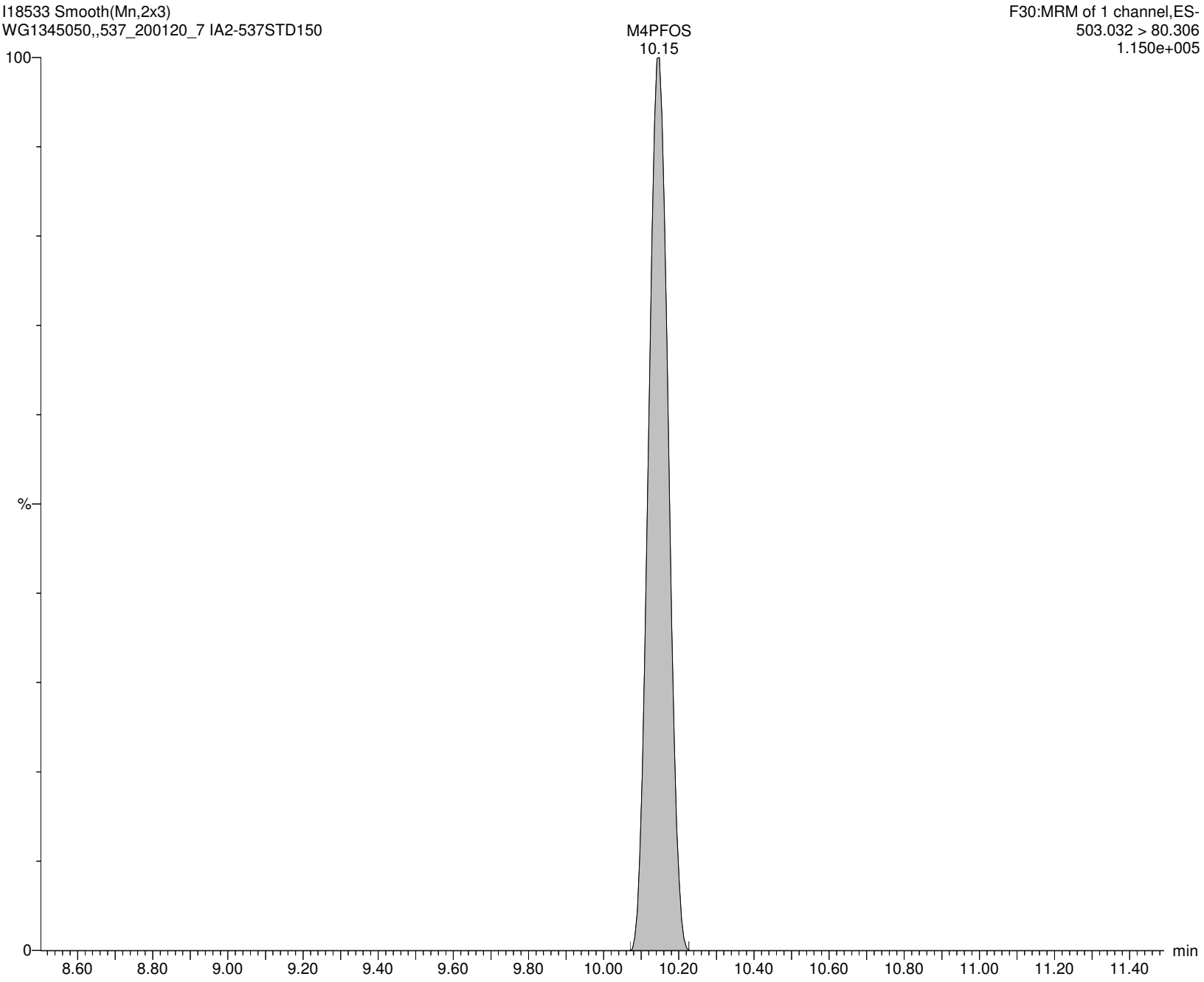

all concentration units in (ng/mL)

Alpha Analytical Inc.
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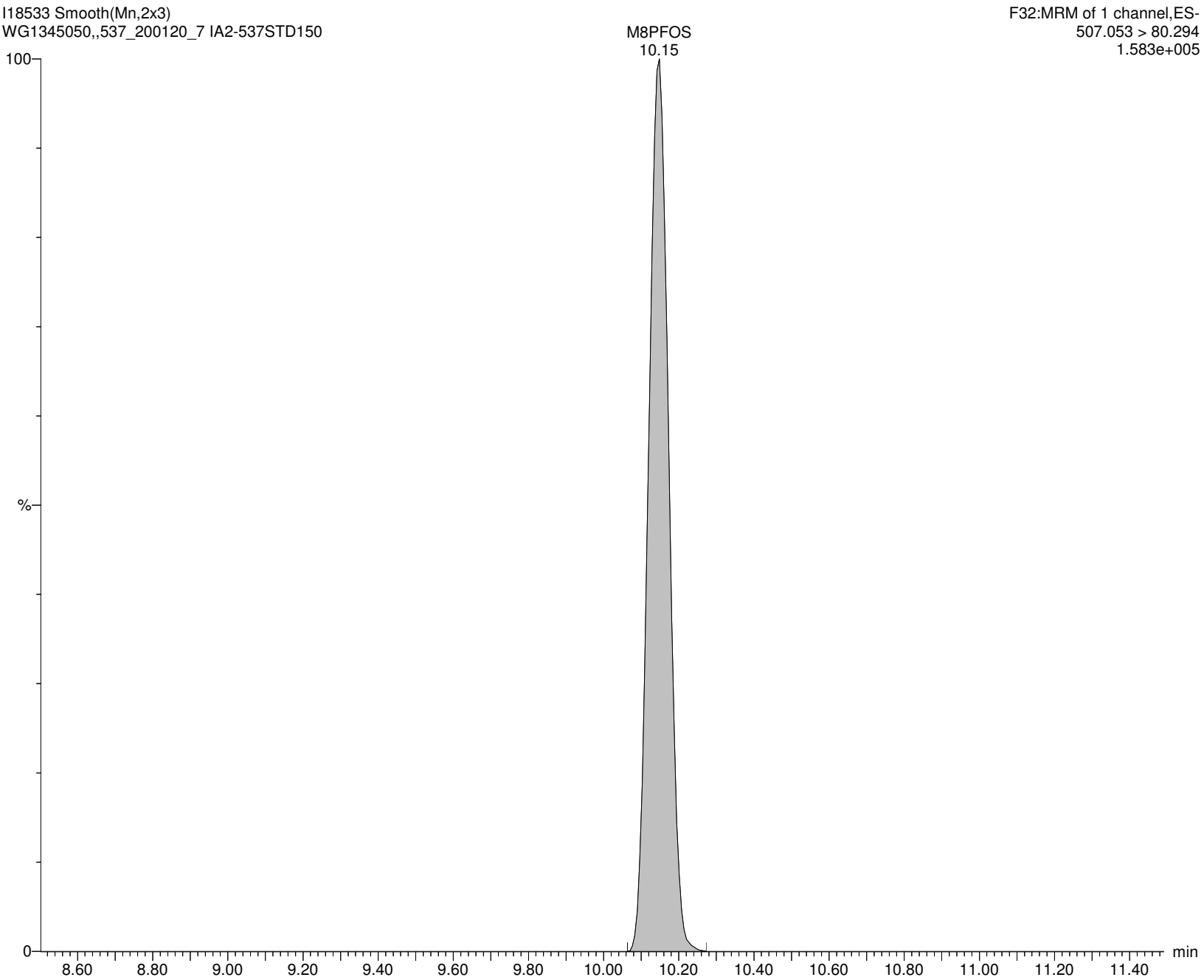

all concentration units in (ng/mL)

Alpha Analytical Inc.
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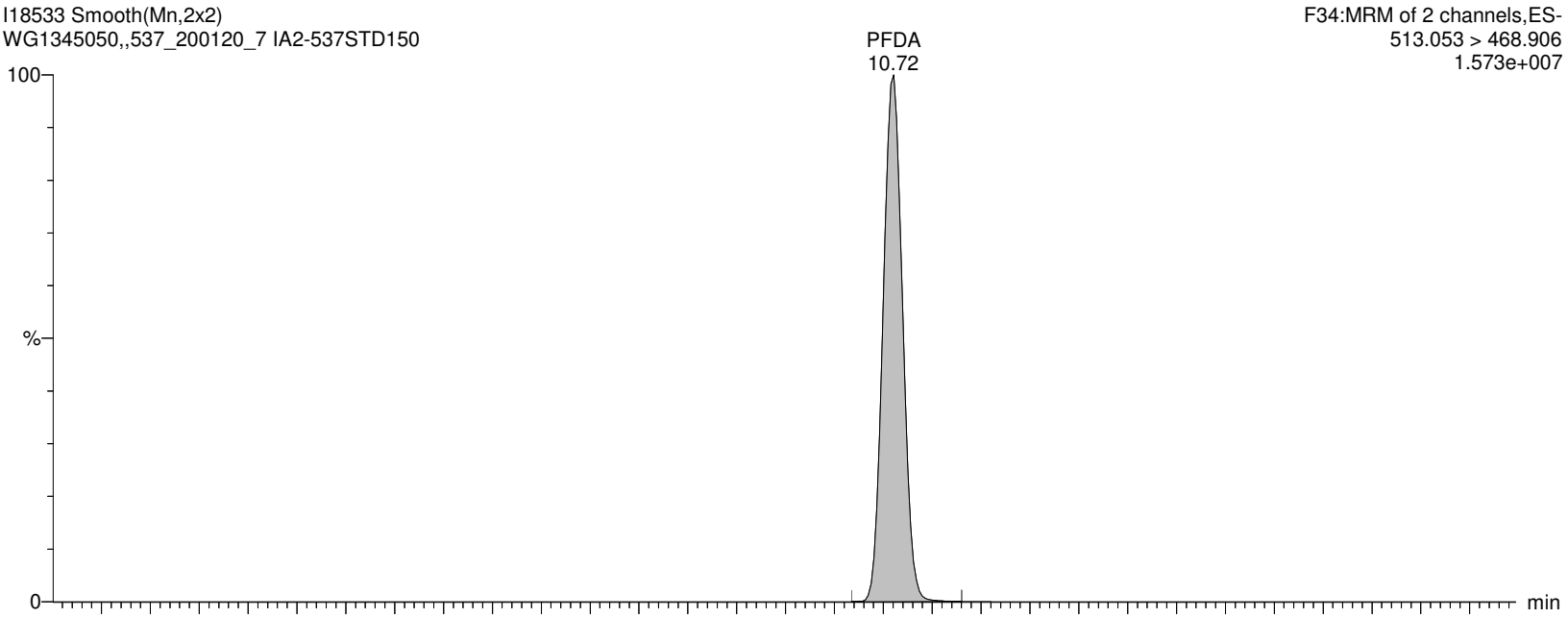

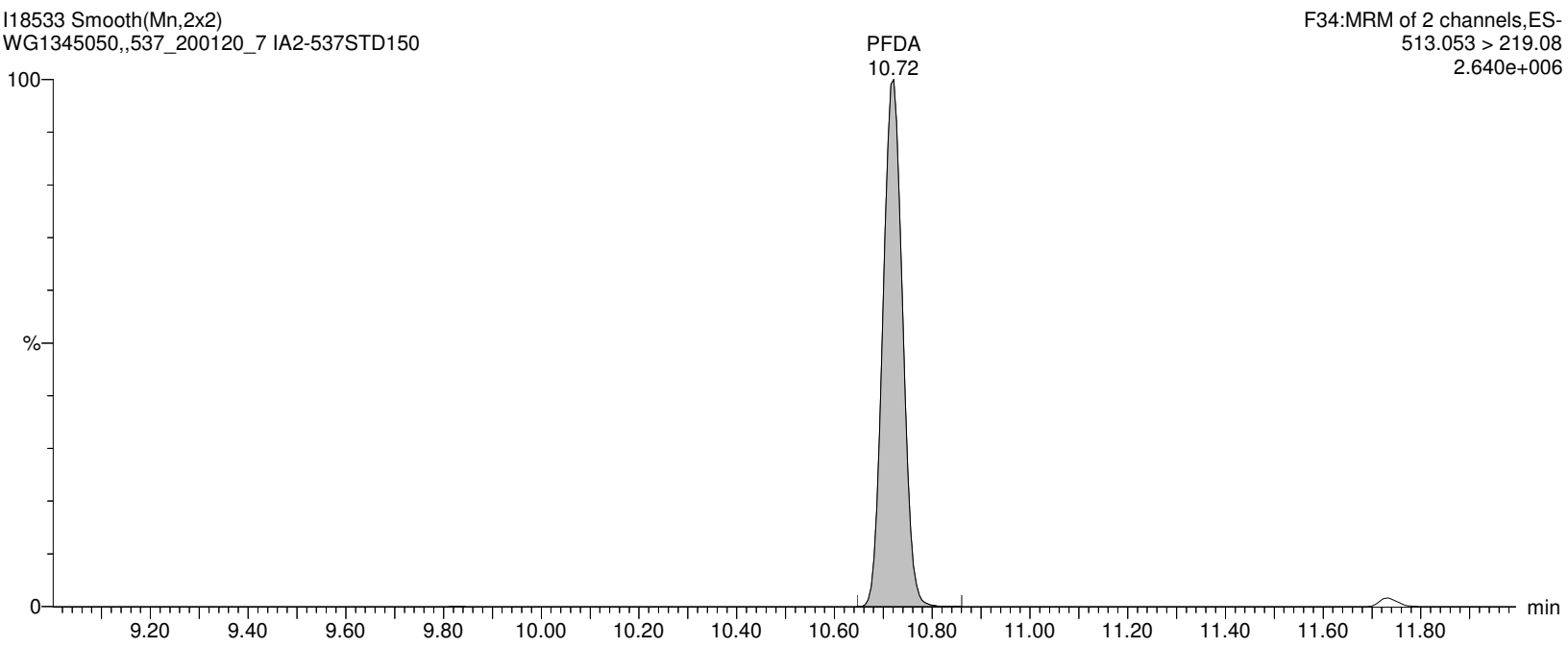

all concentration units in (ng/mL)

Alpha Analytical Inc.
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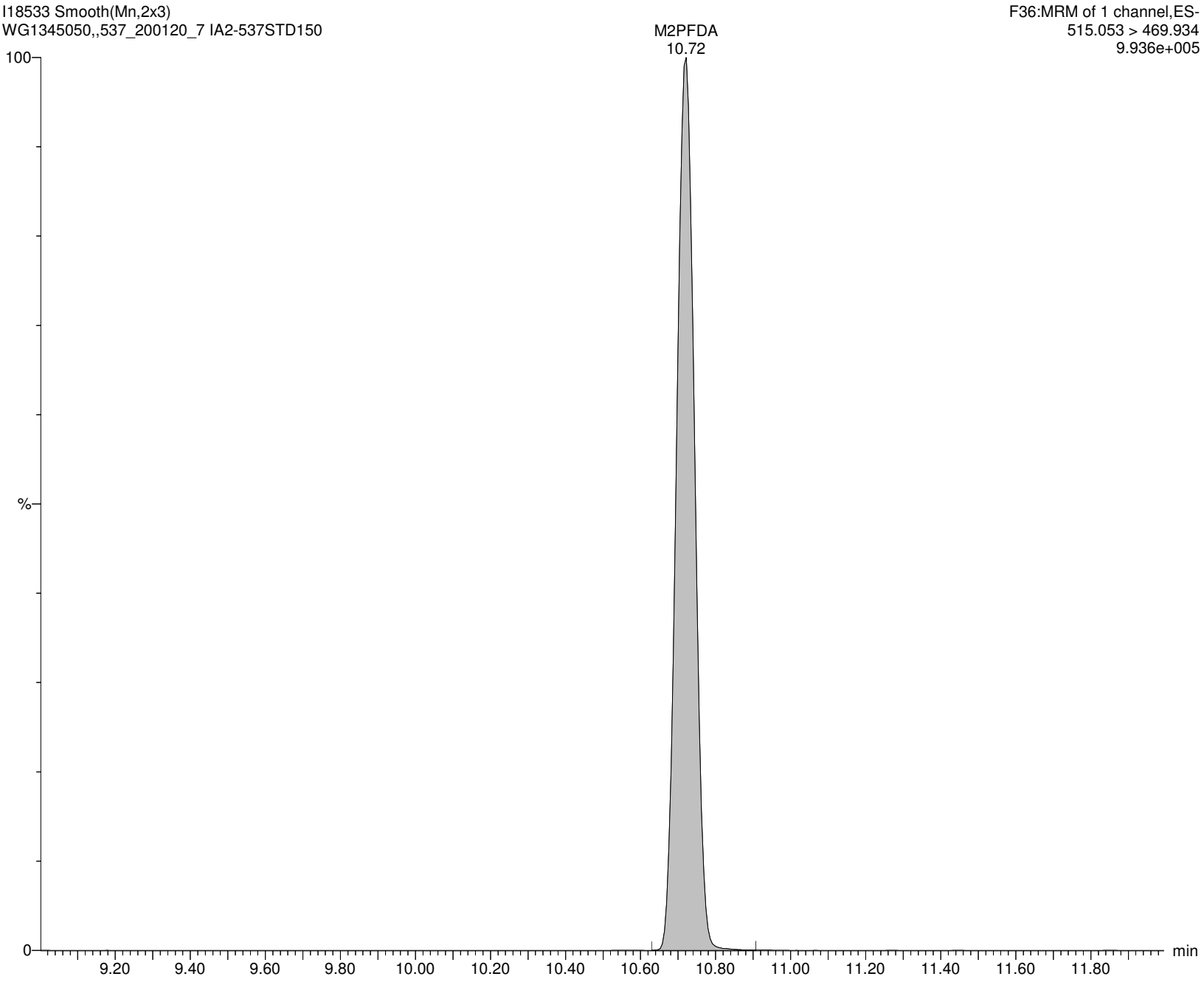

all concentration units in (ng/mL)

Alpha Analytical Inc.
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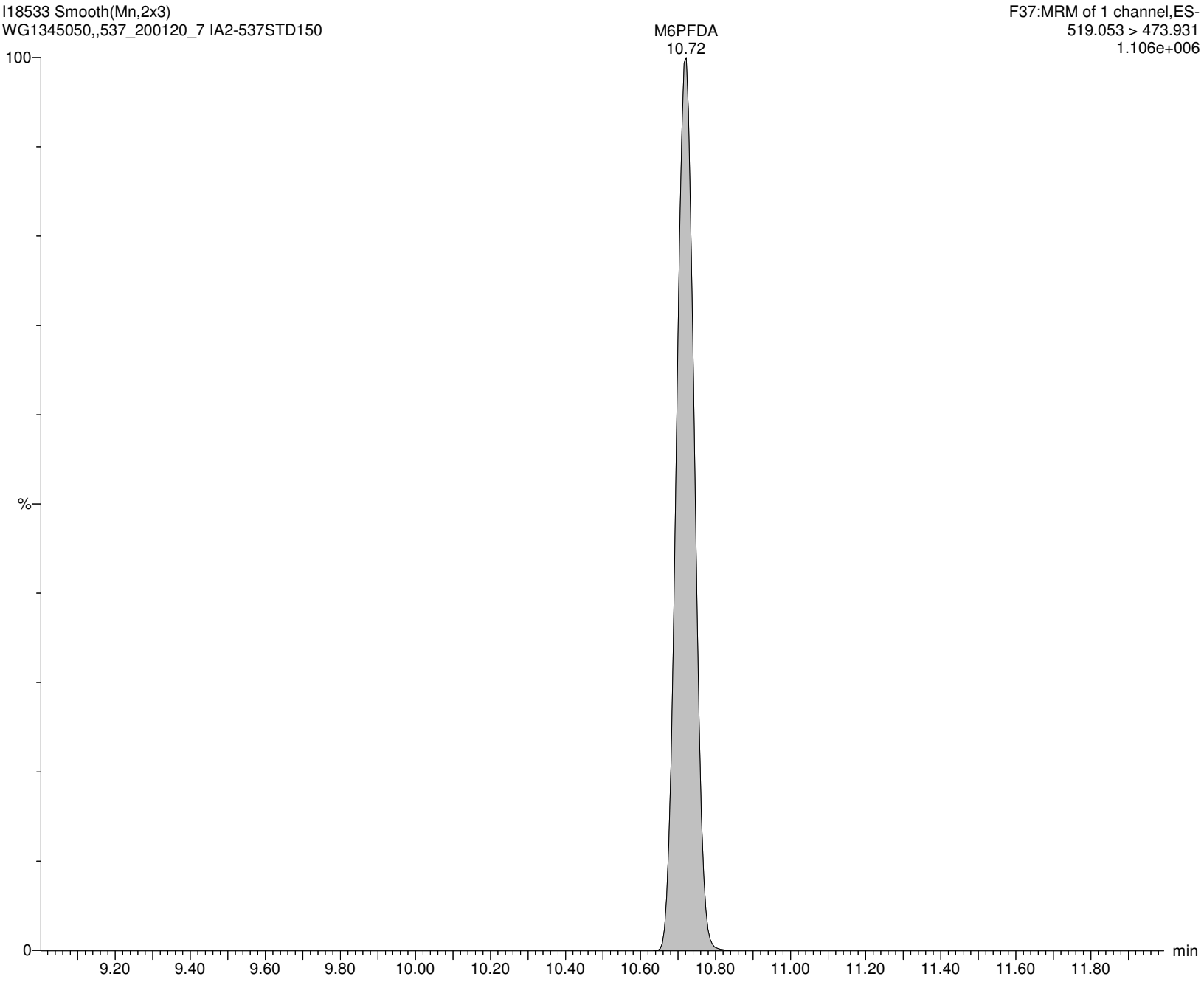

all concentration units in (ng/mL)

Alpha Analytical Inc.
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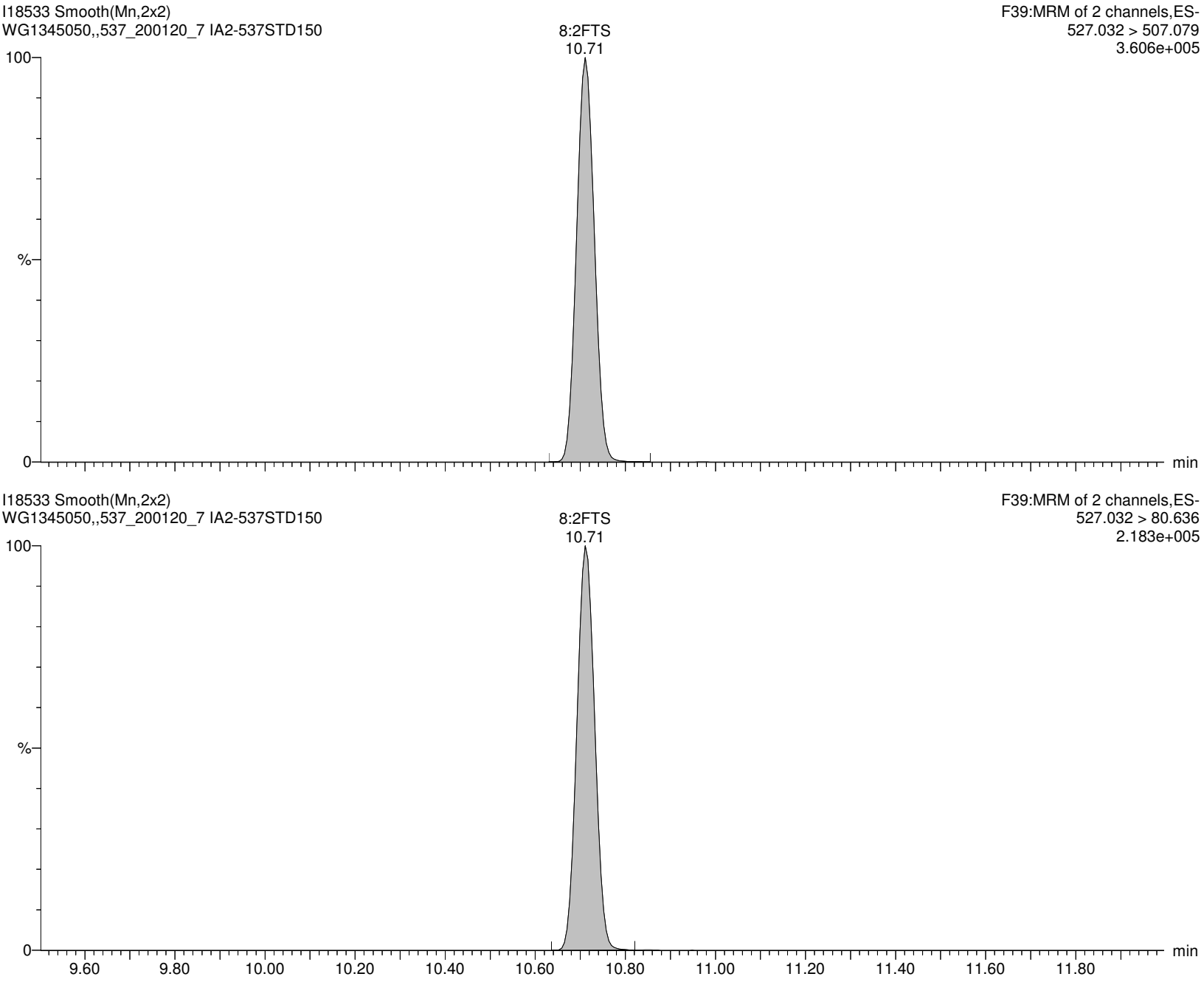

all concentration units in (ng/mL)

Alpha Analytical Inc.
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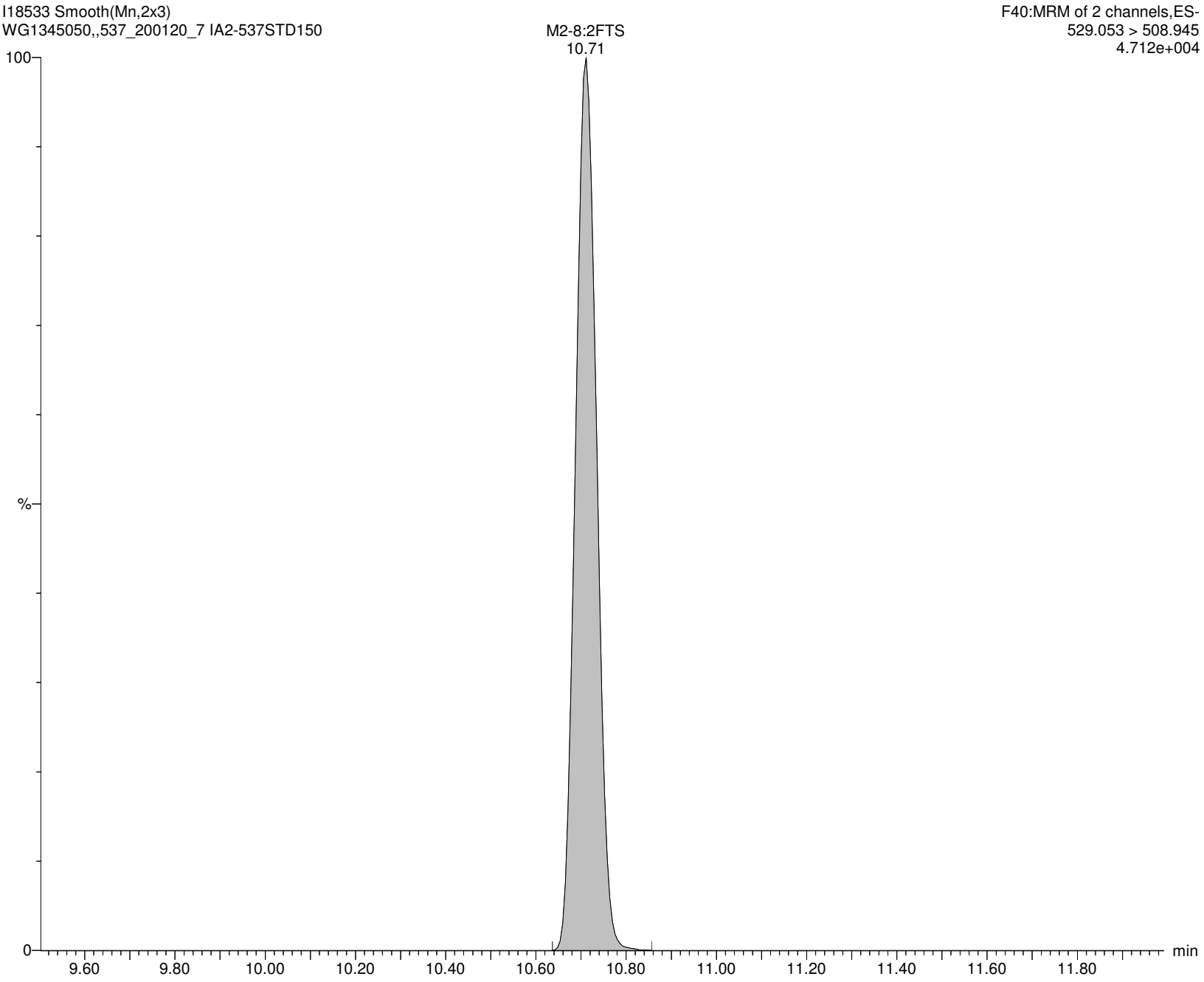
M2-8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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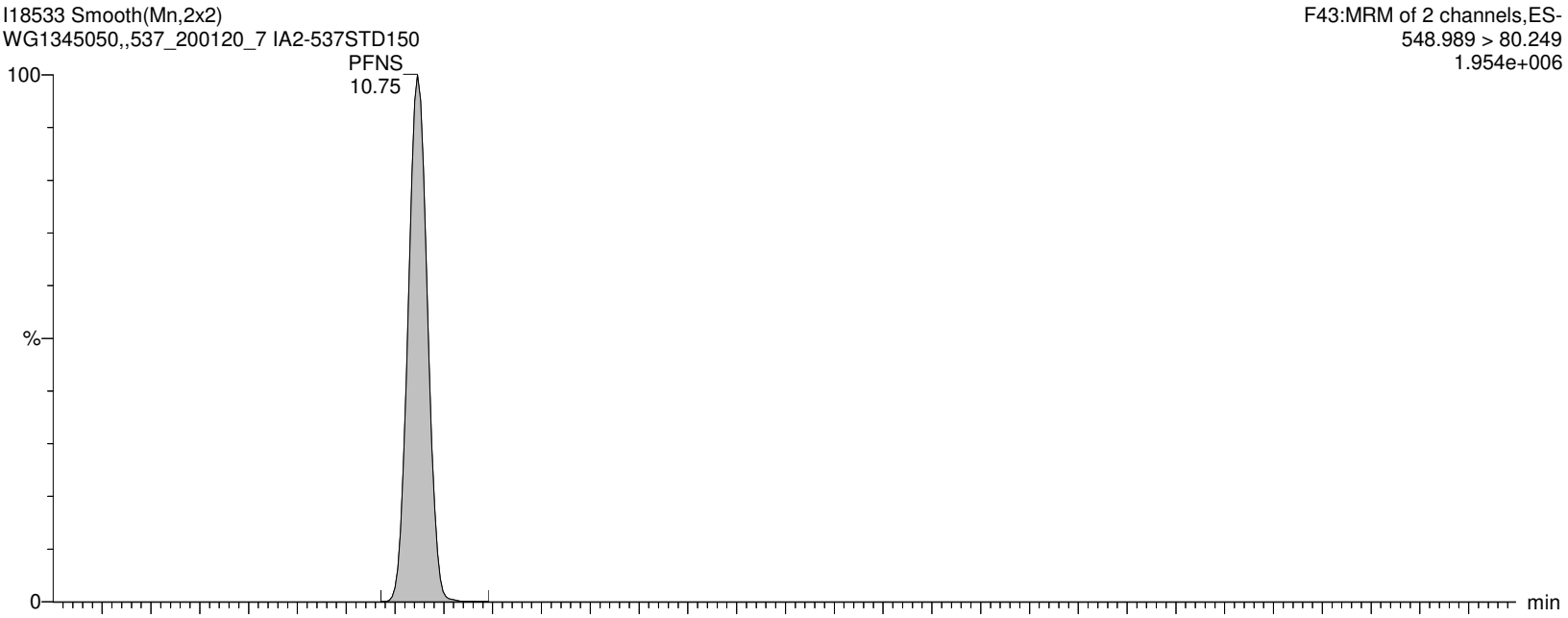
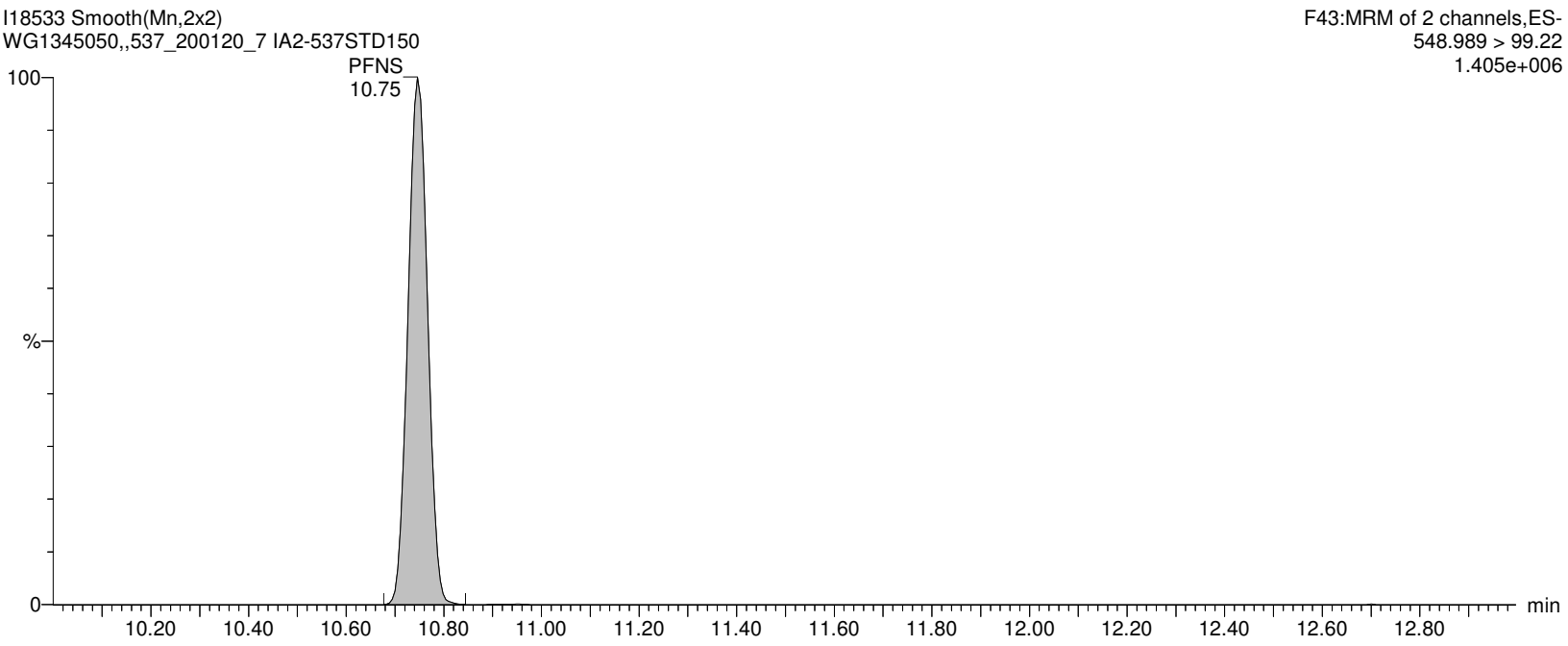
PFNS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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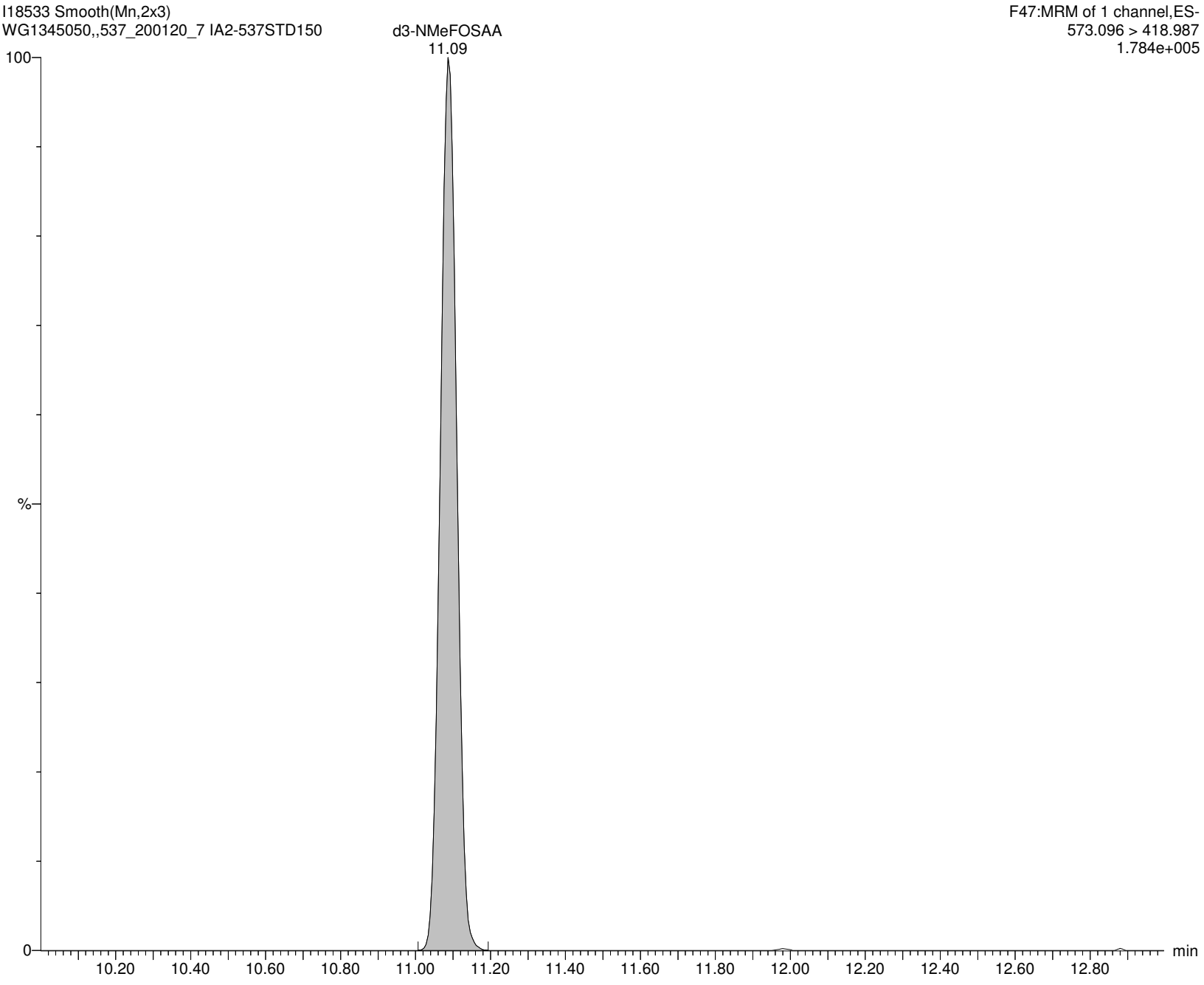
d3-NMeFOSAA



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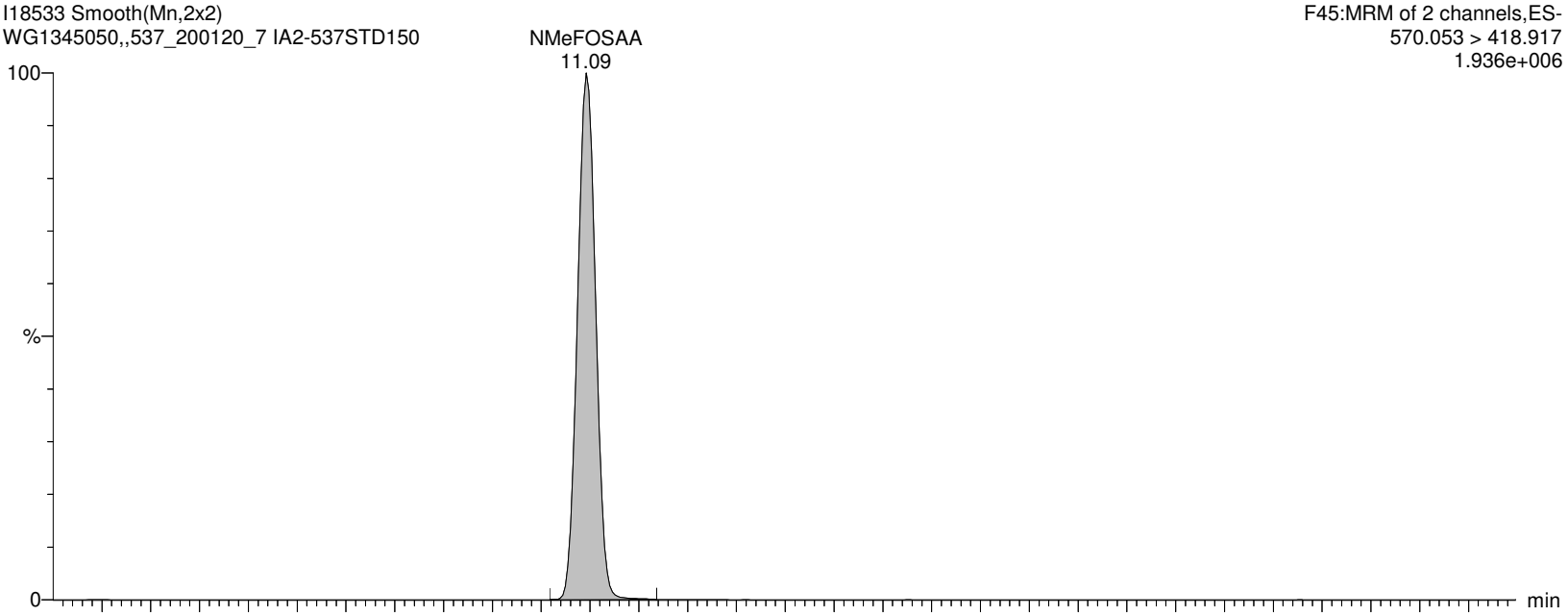

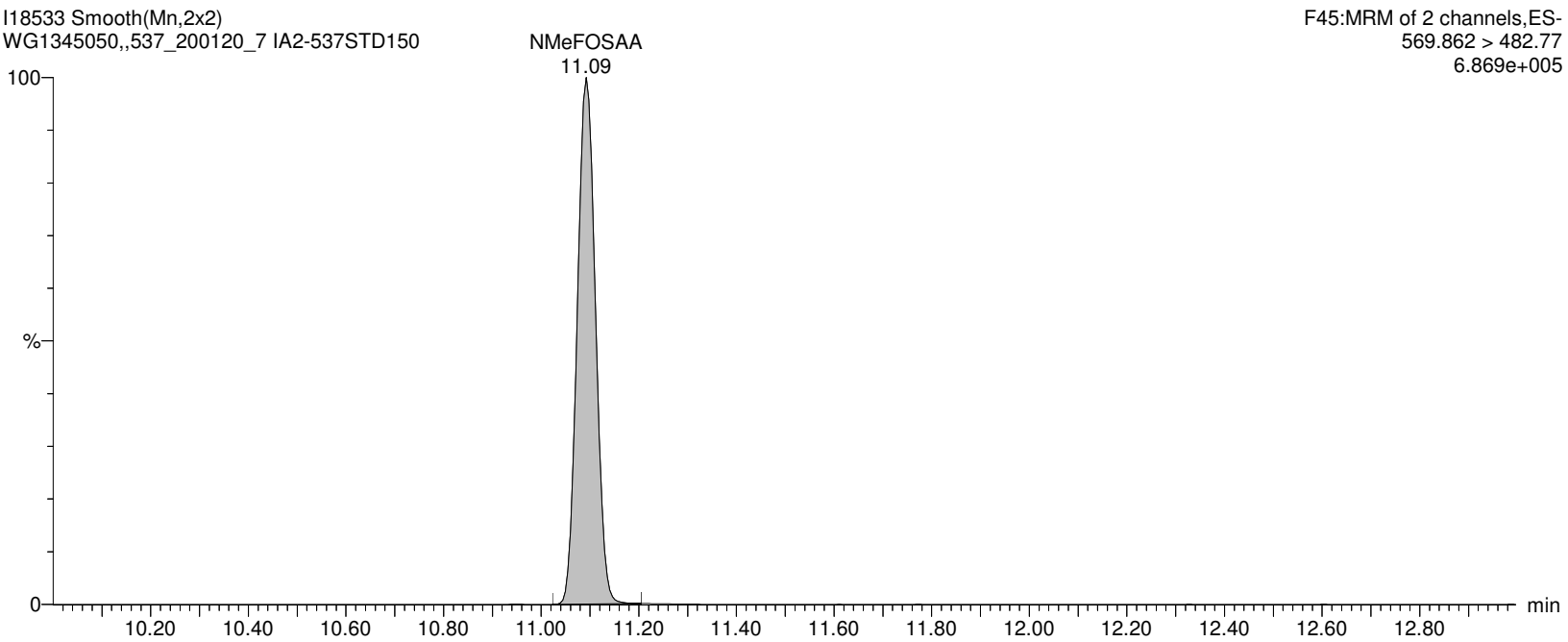

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:54 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:08:31
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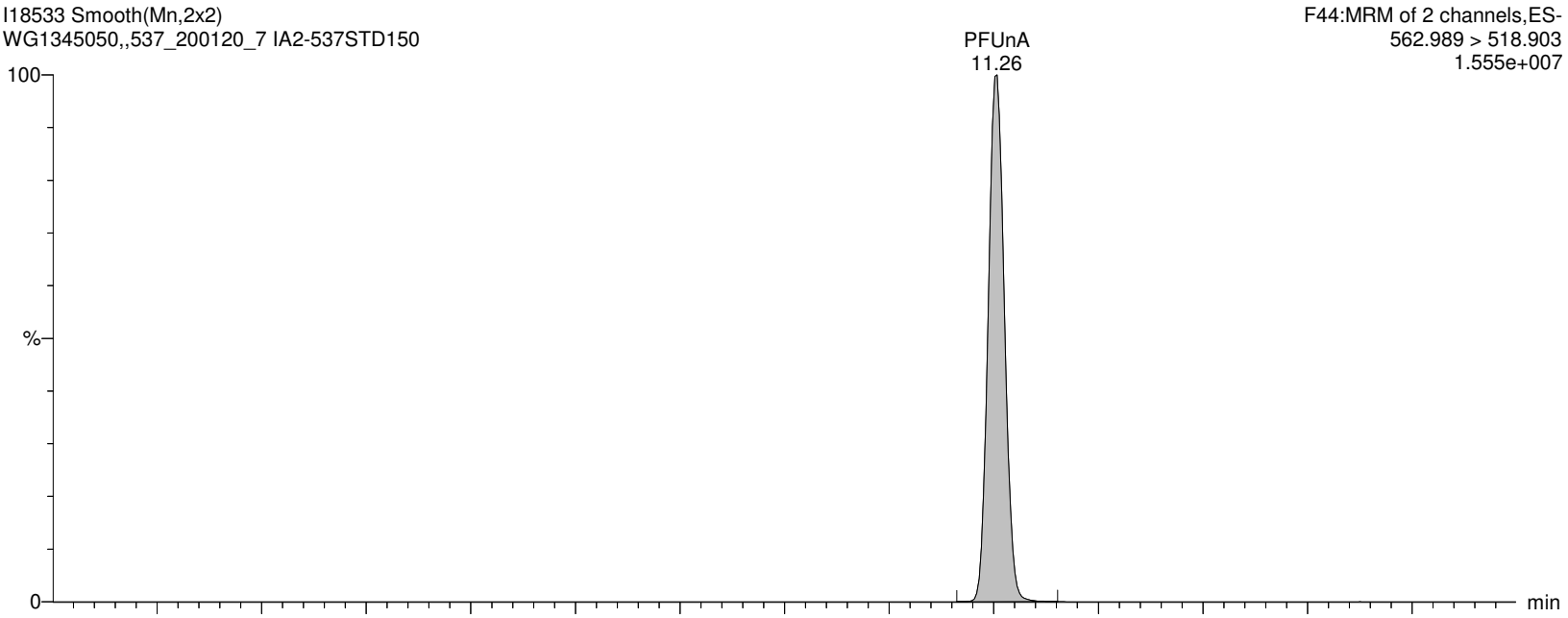

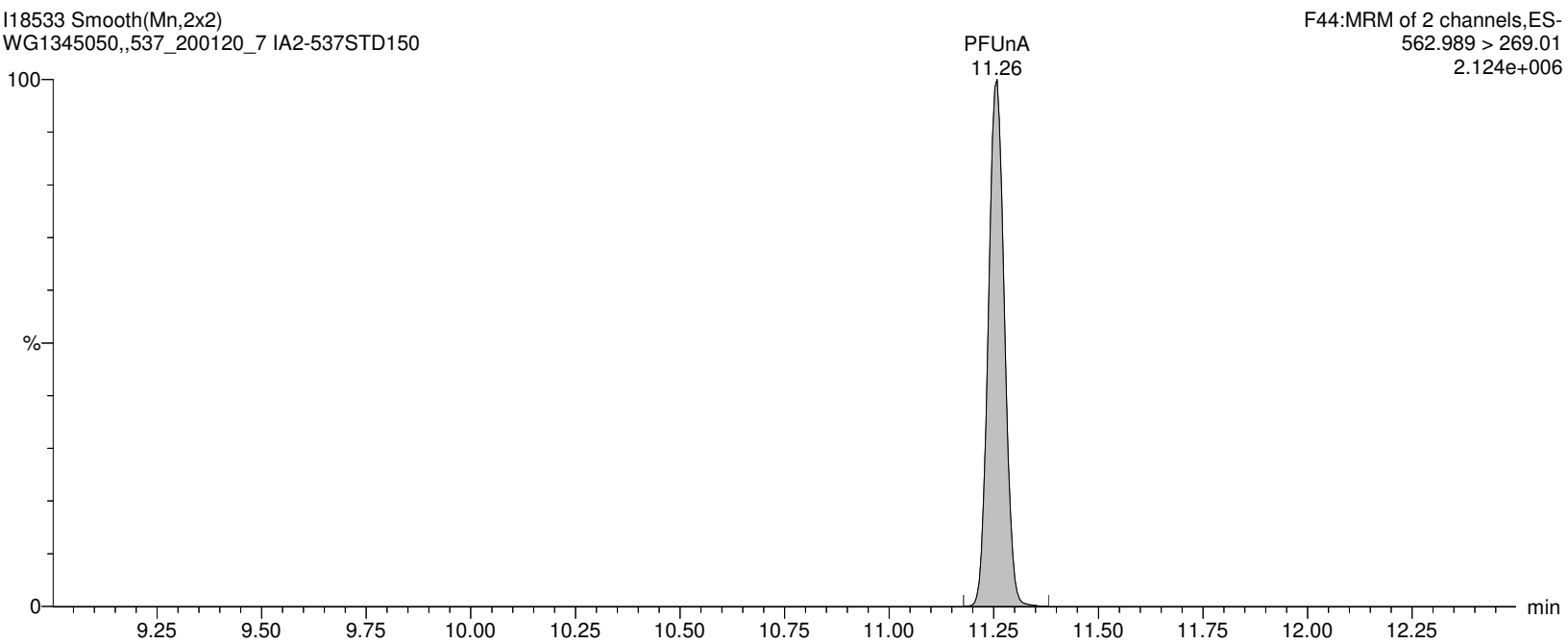

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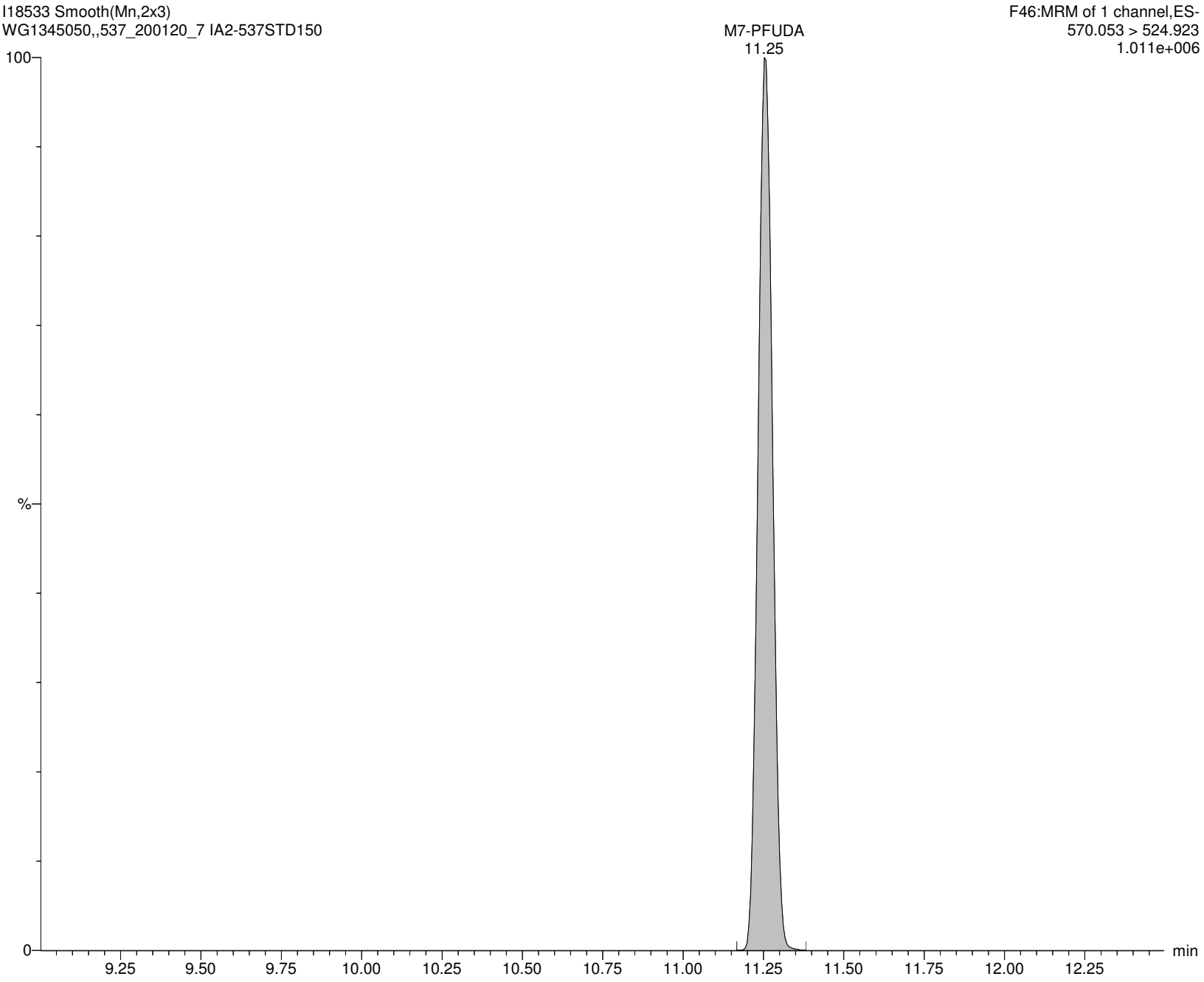
M7-PFUDA



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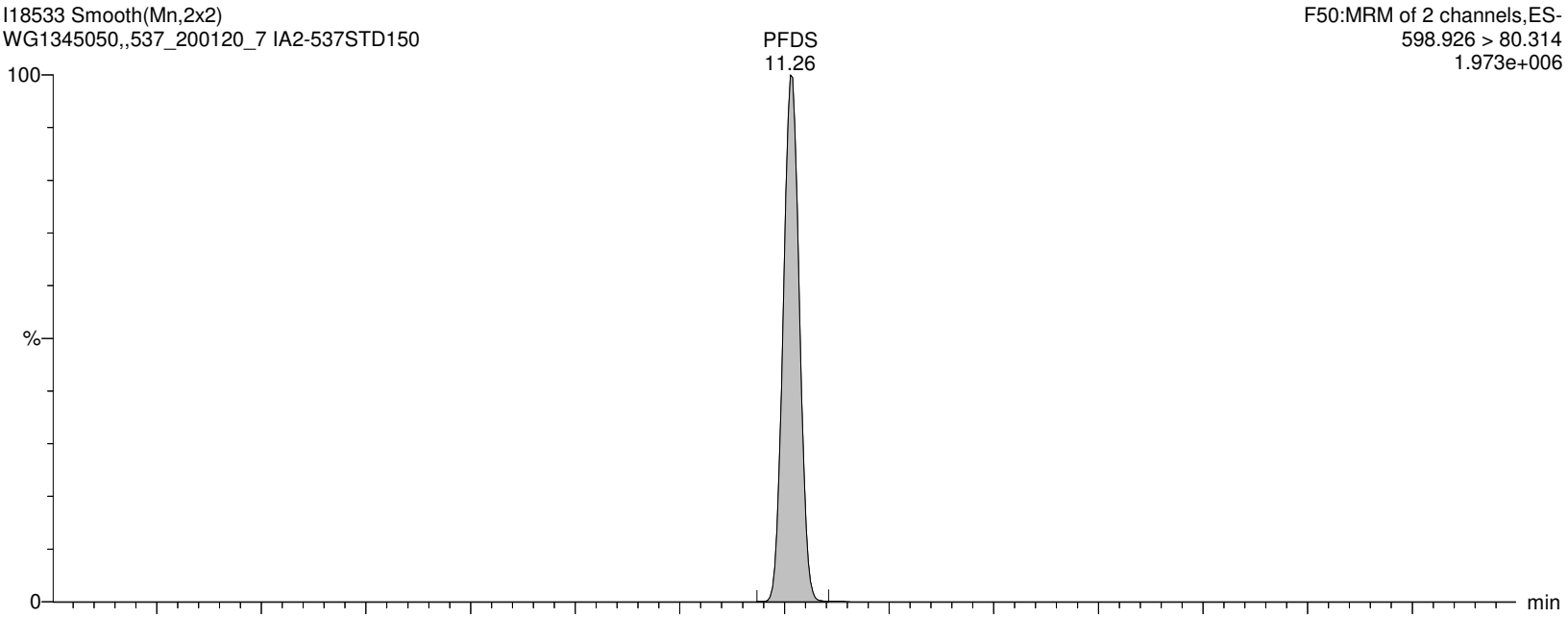

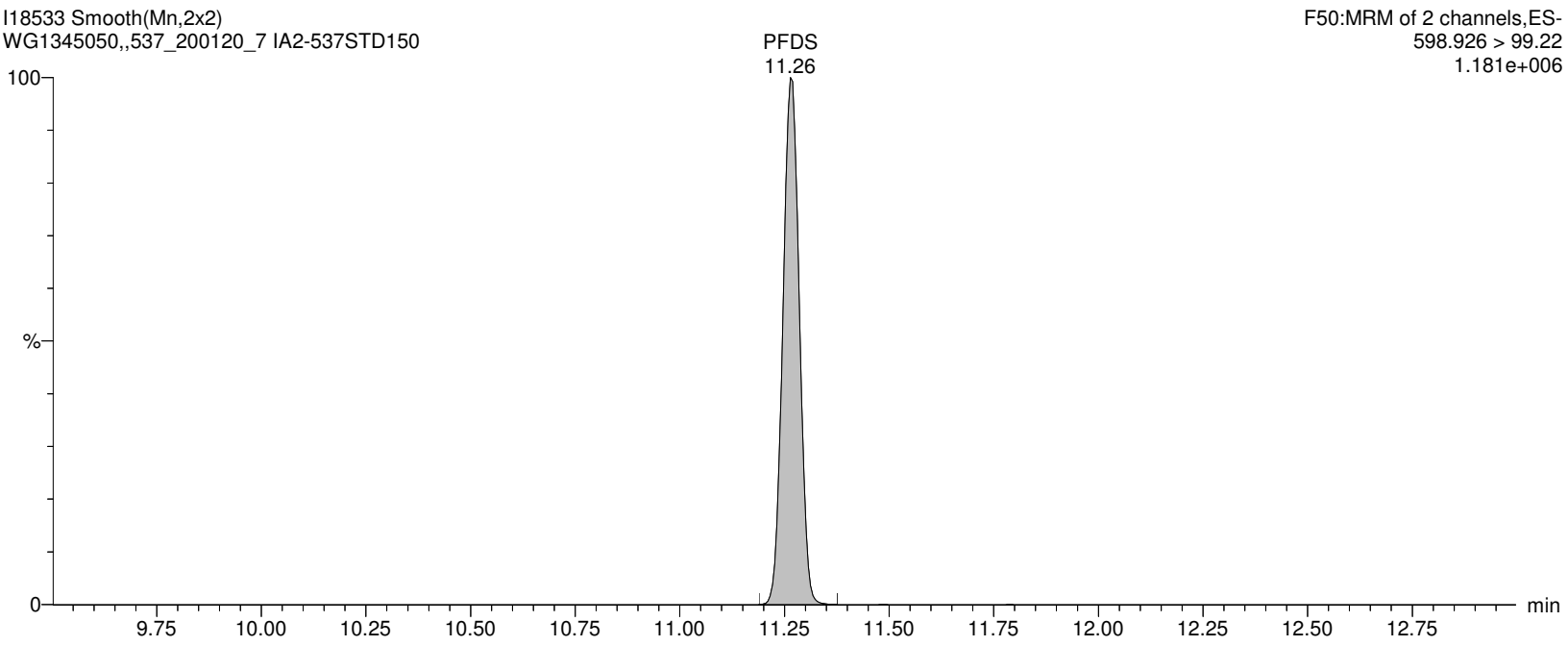

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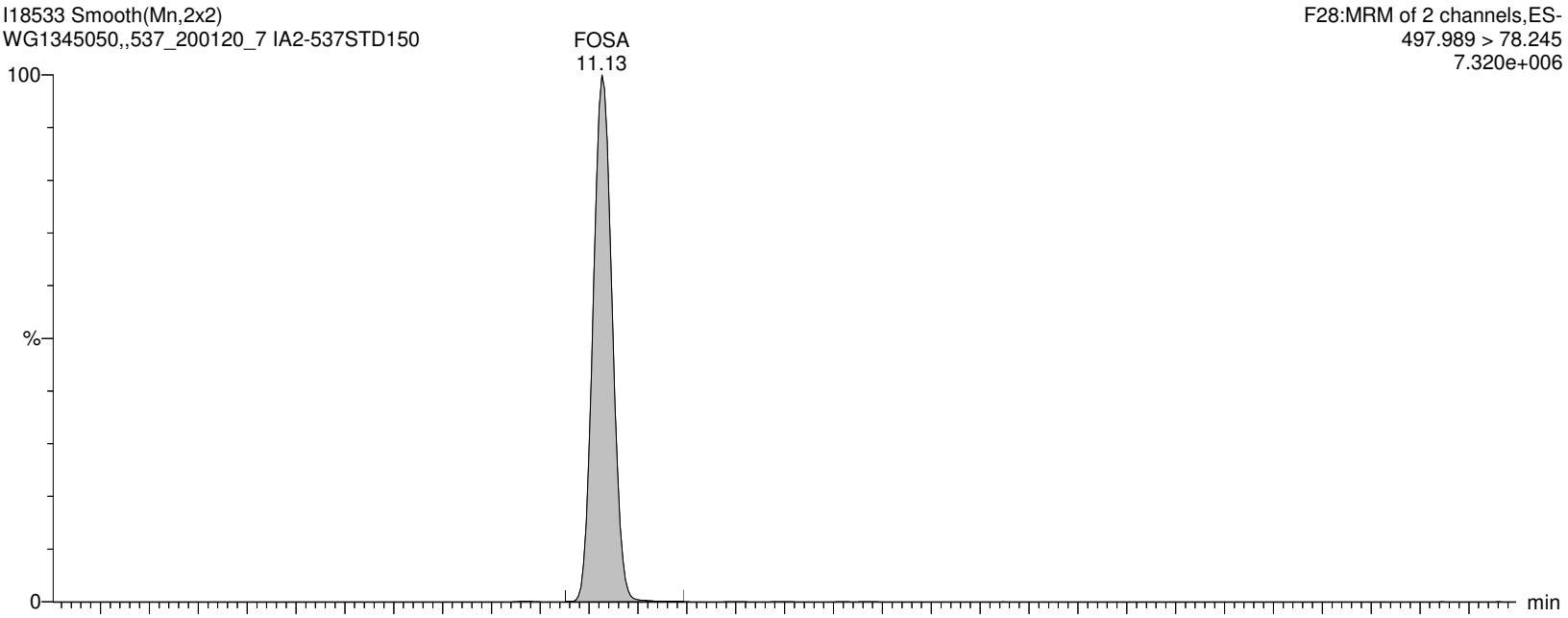
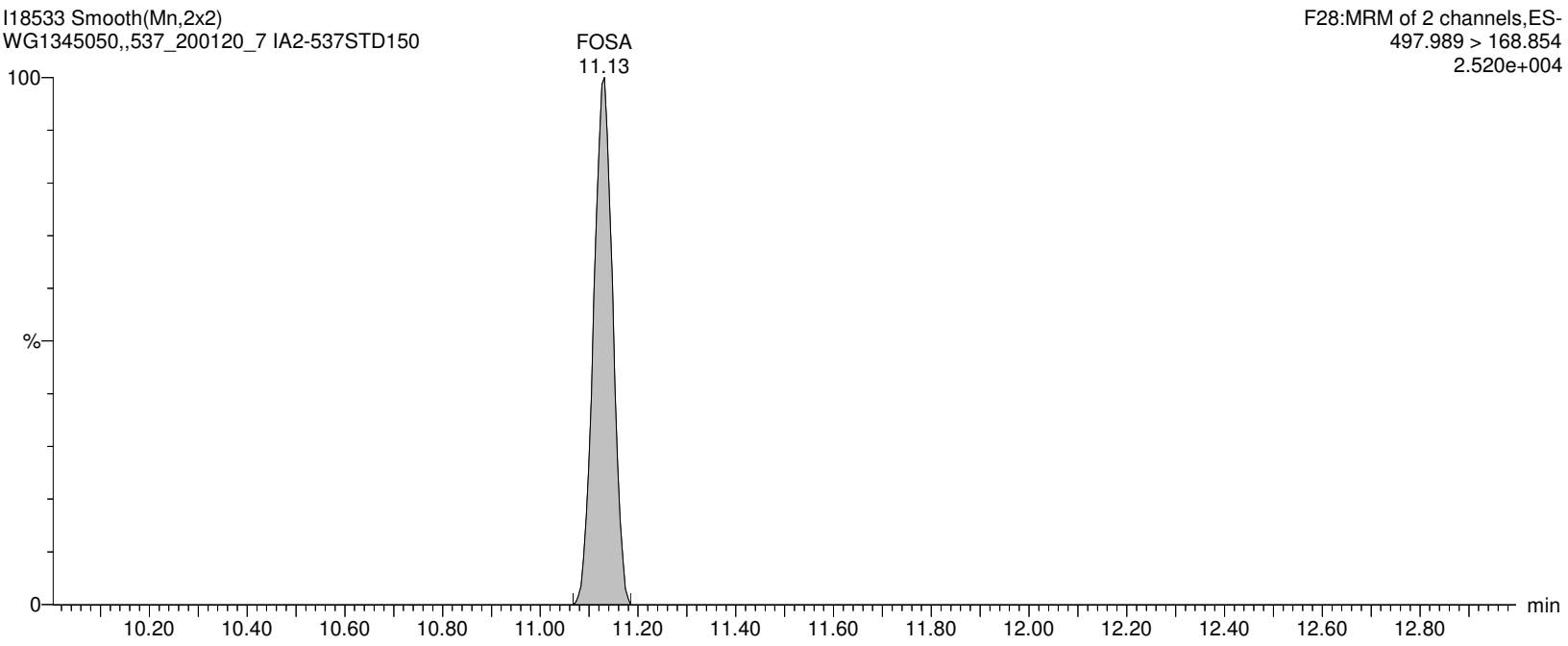
FOSA





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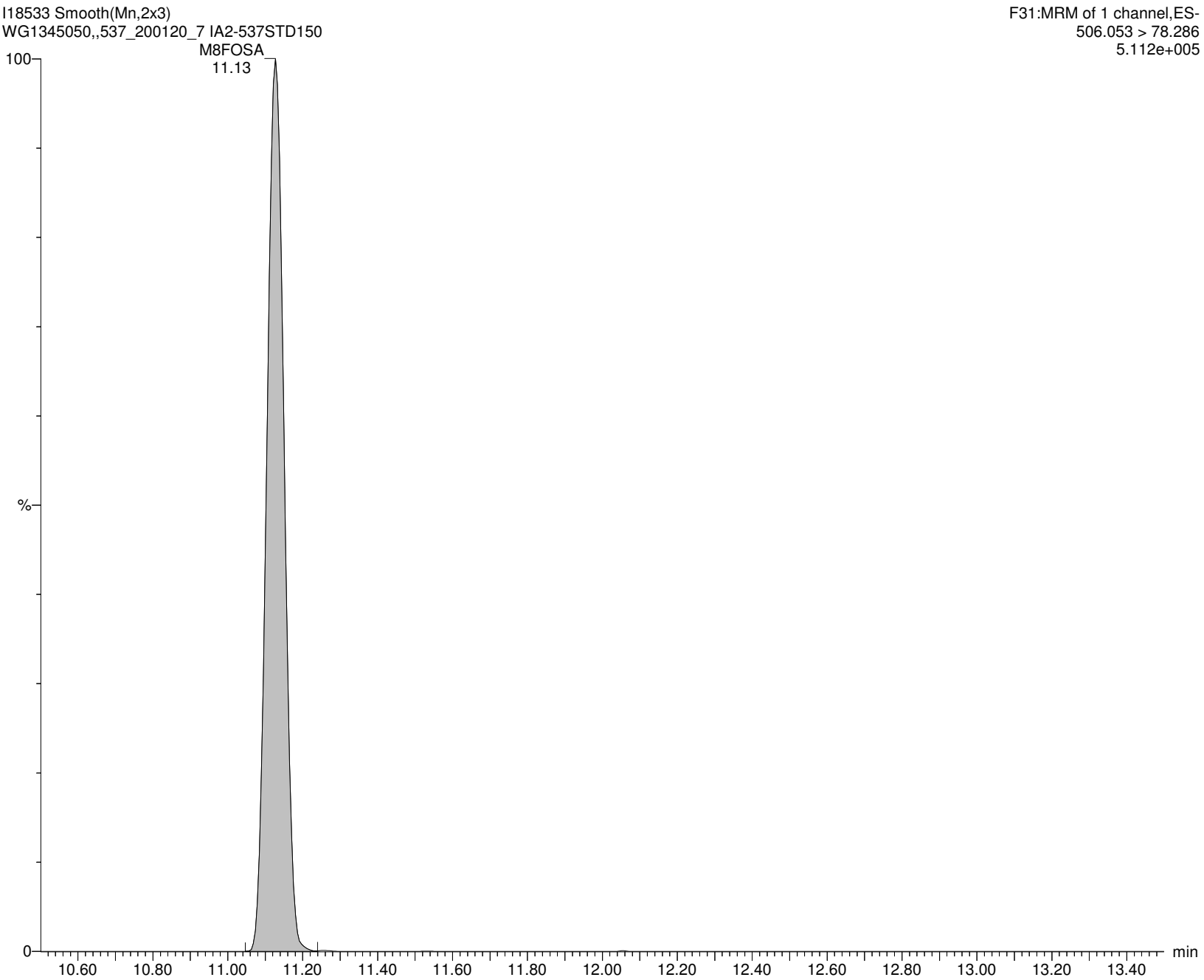

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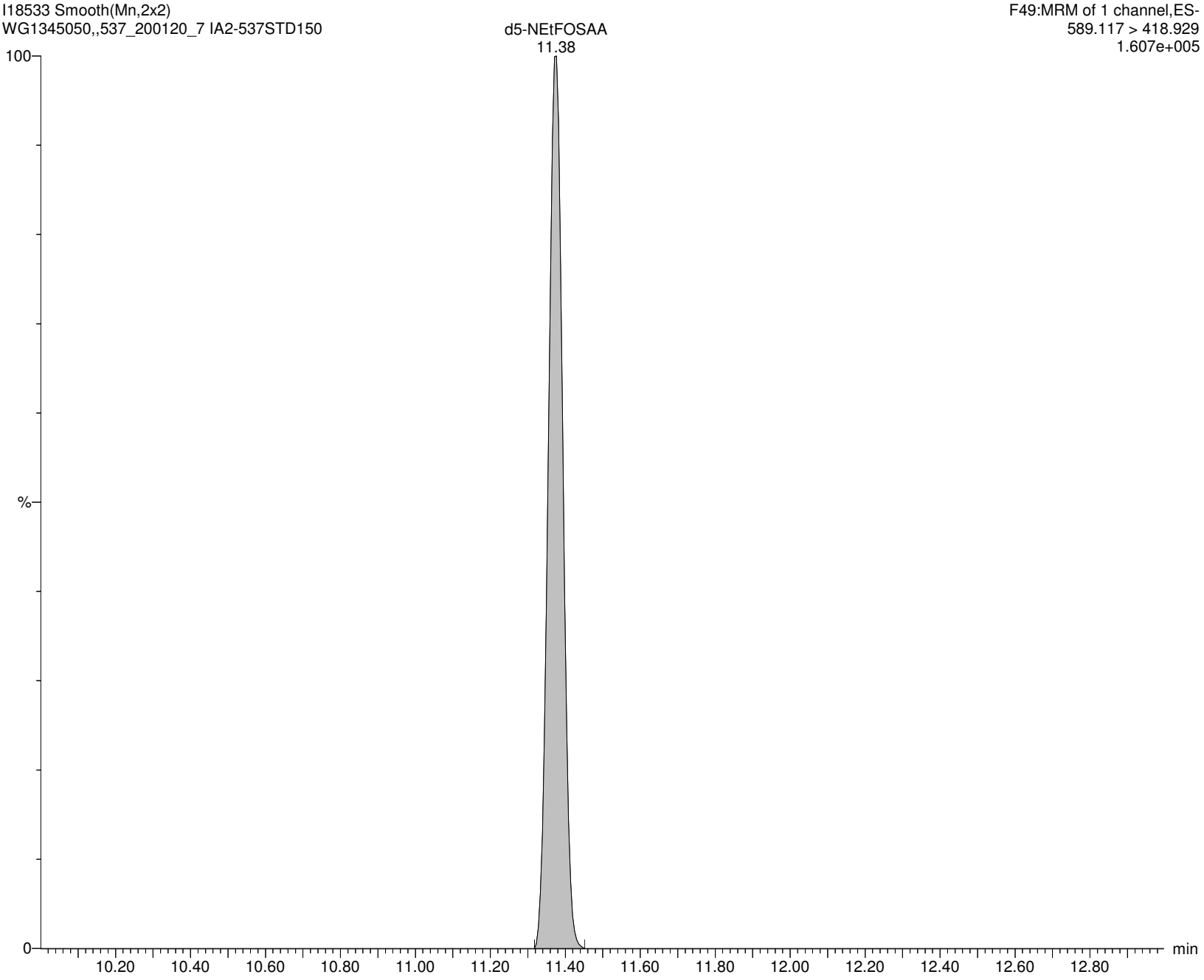
d5-NEtFOSAA



all concentration units in (ng/mL)

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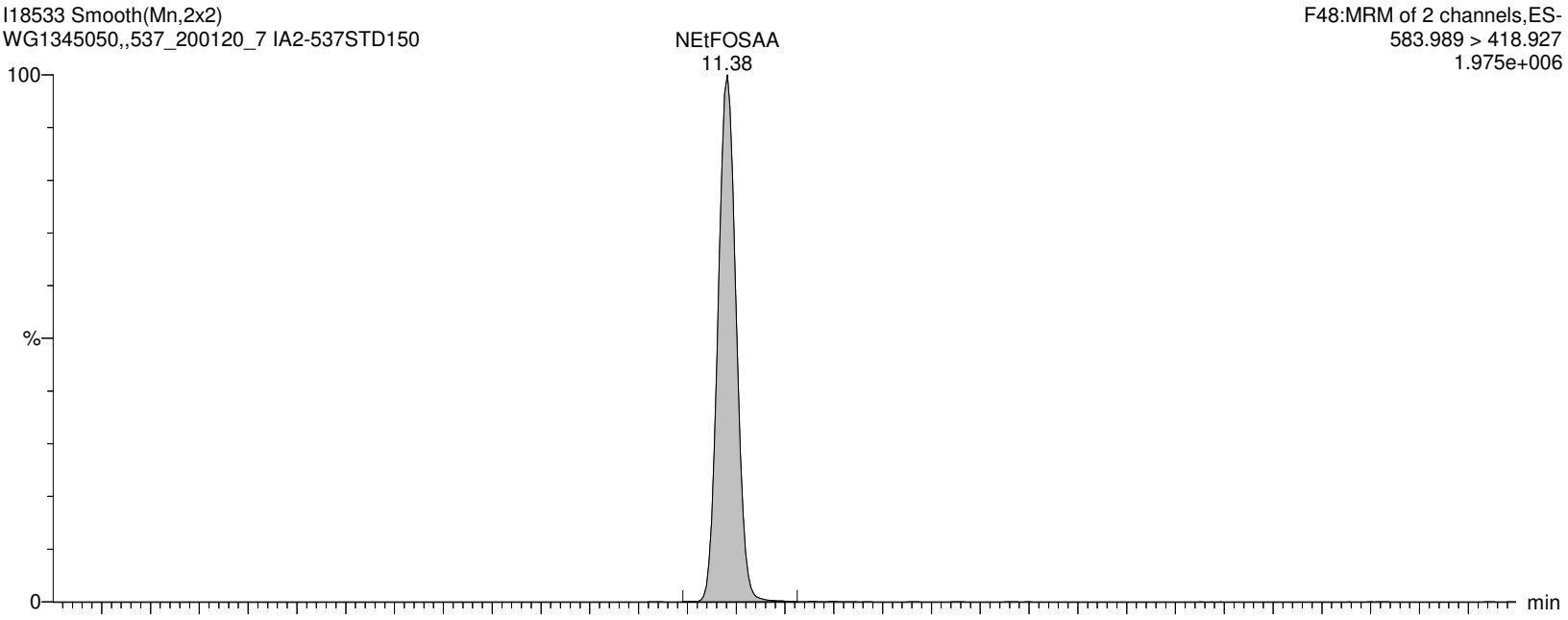

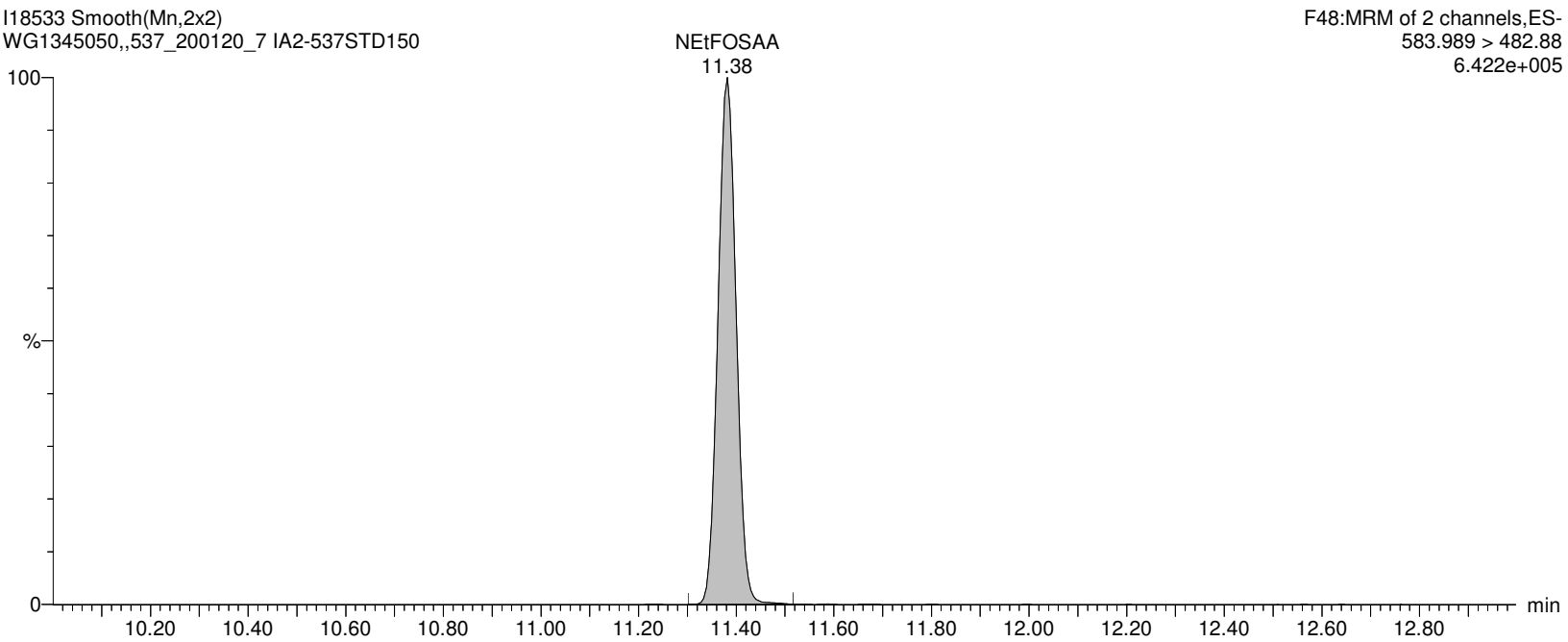

all concentration units in (ng/mL)

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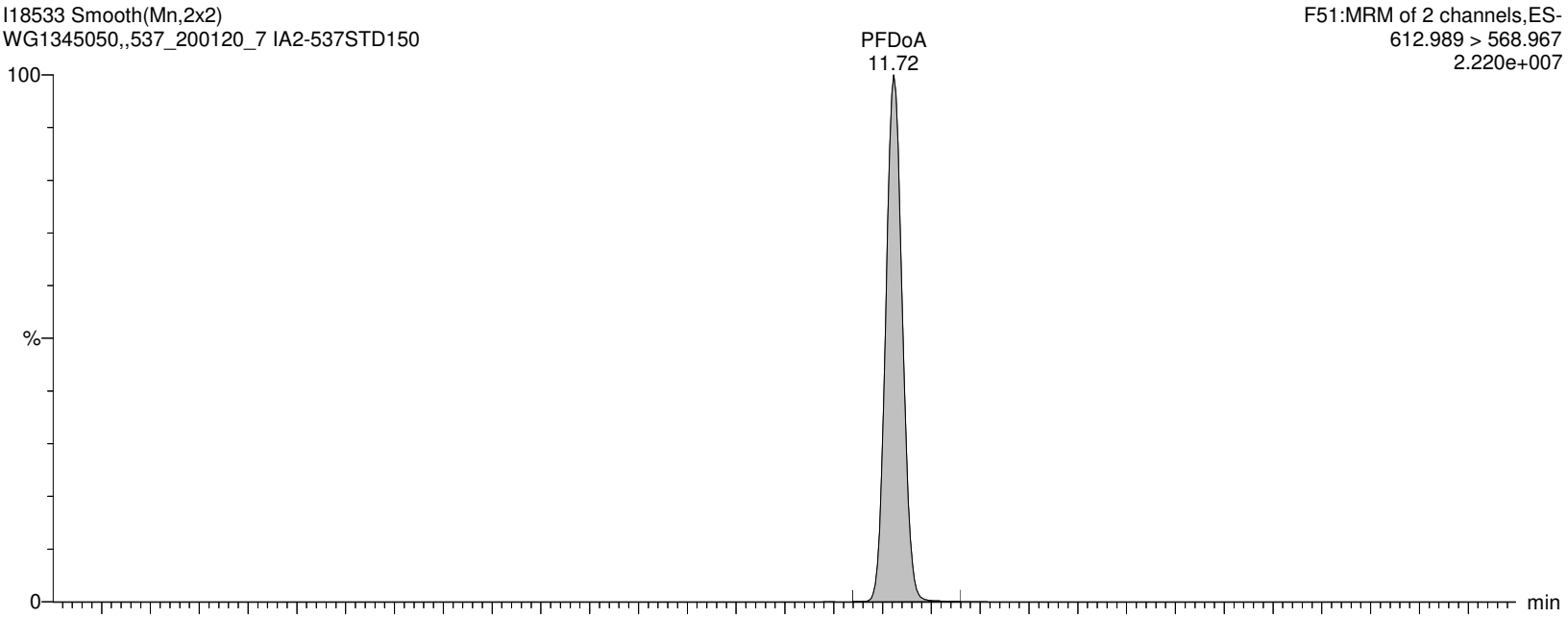

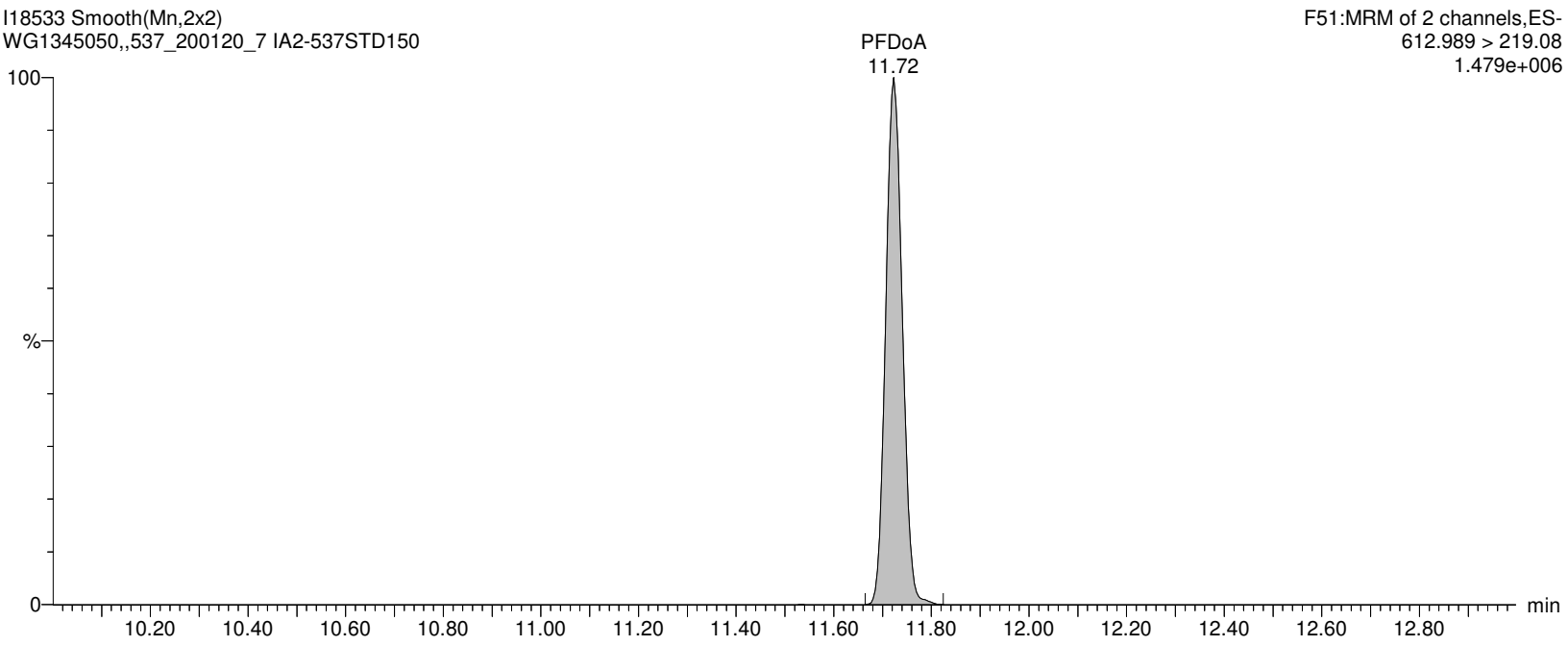

all concentration units in (ng/mL)

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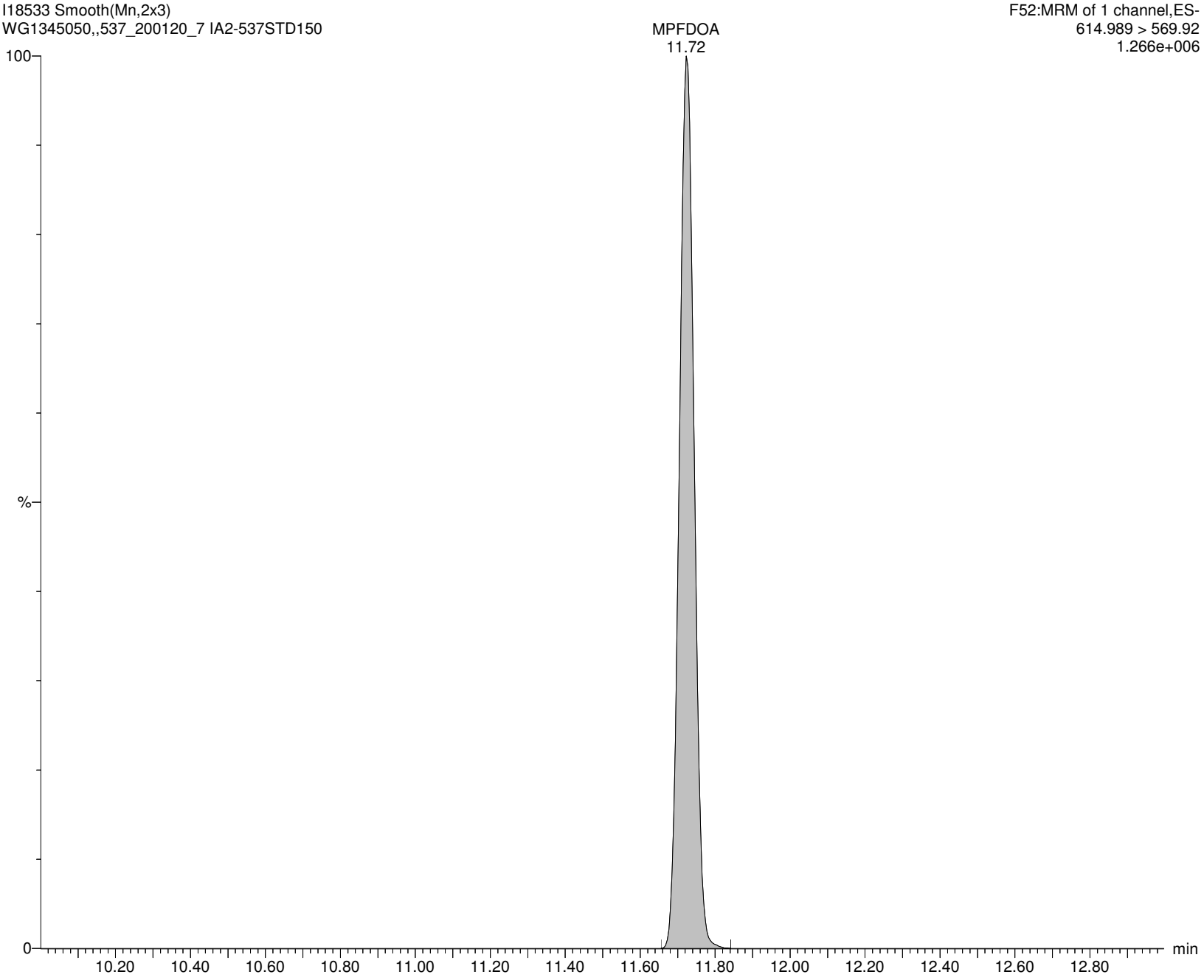

all concentration units in (ng/mL)

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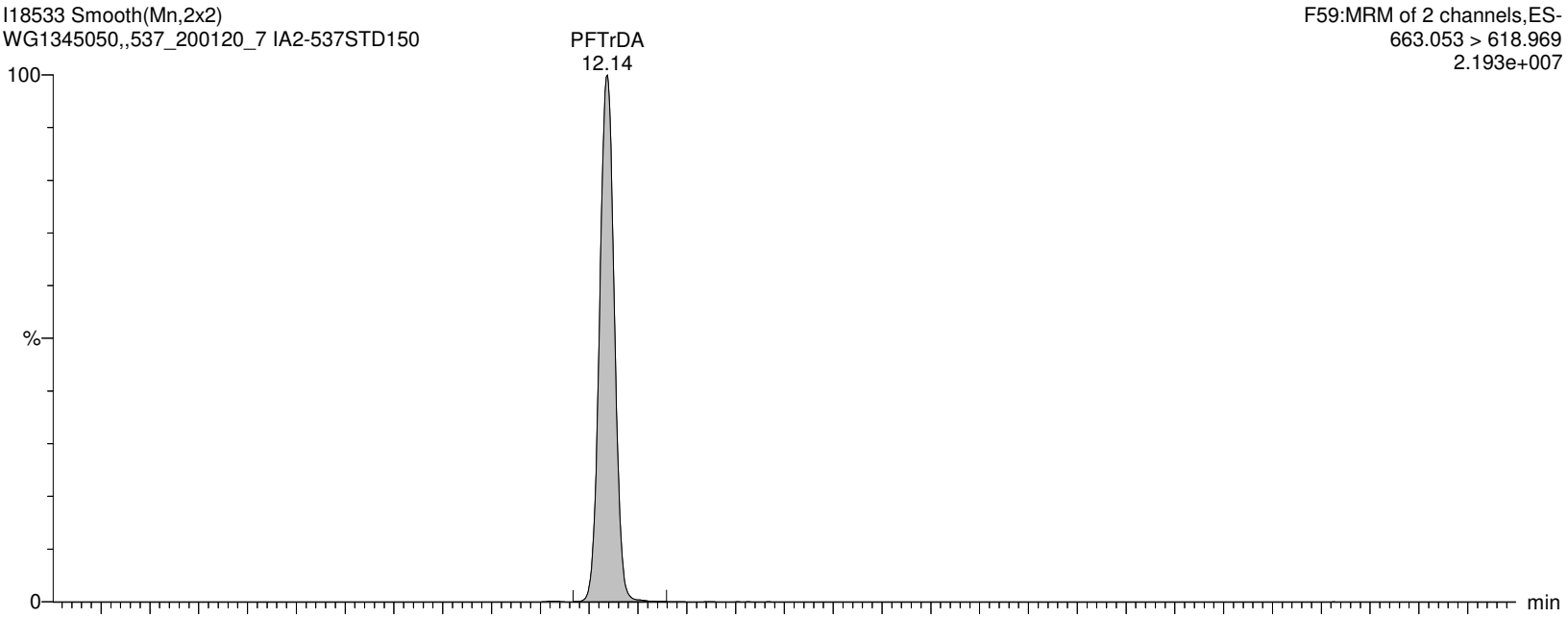

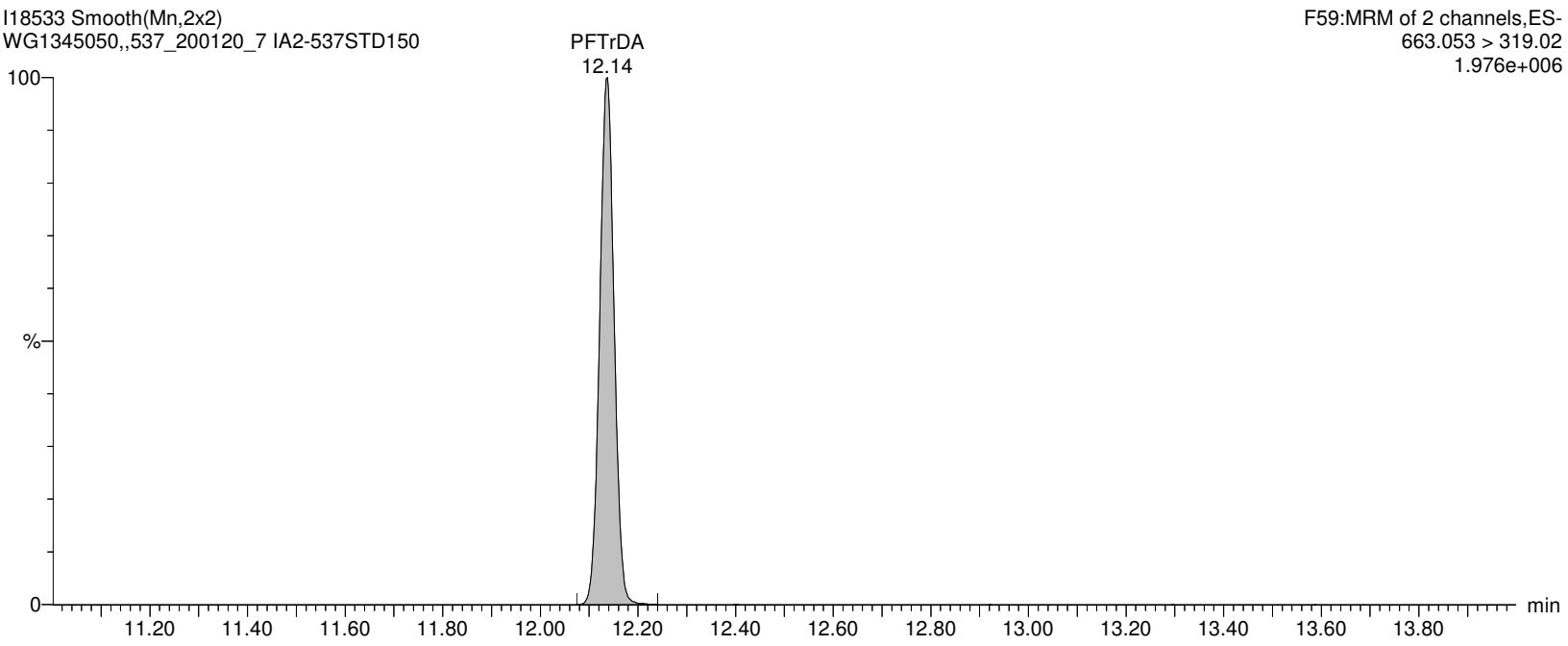

all concentration units in (ng/mL)

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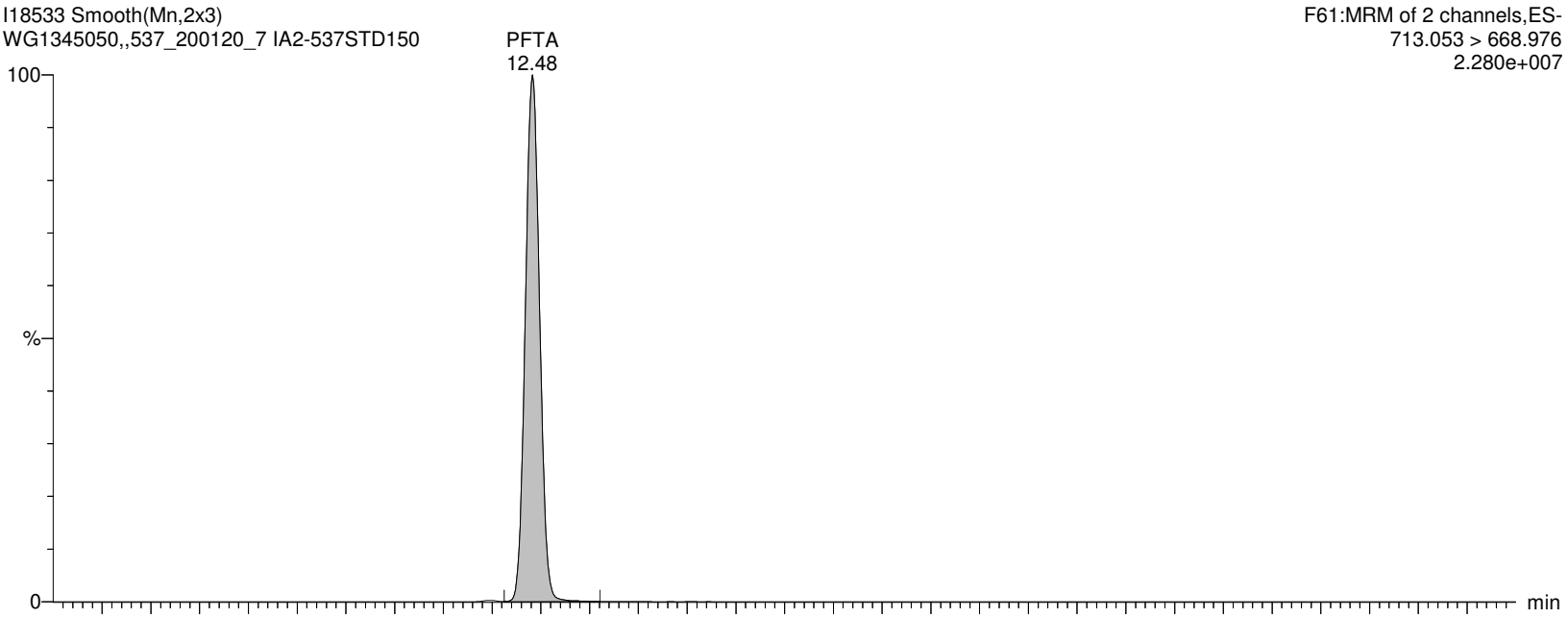

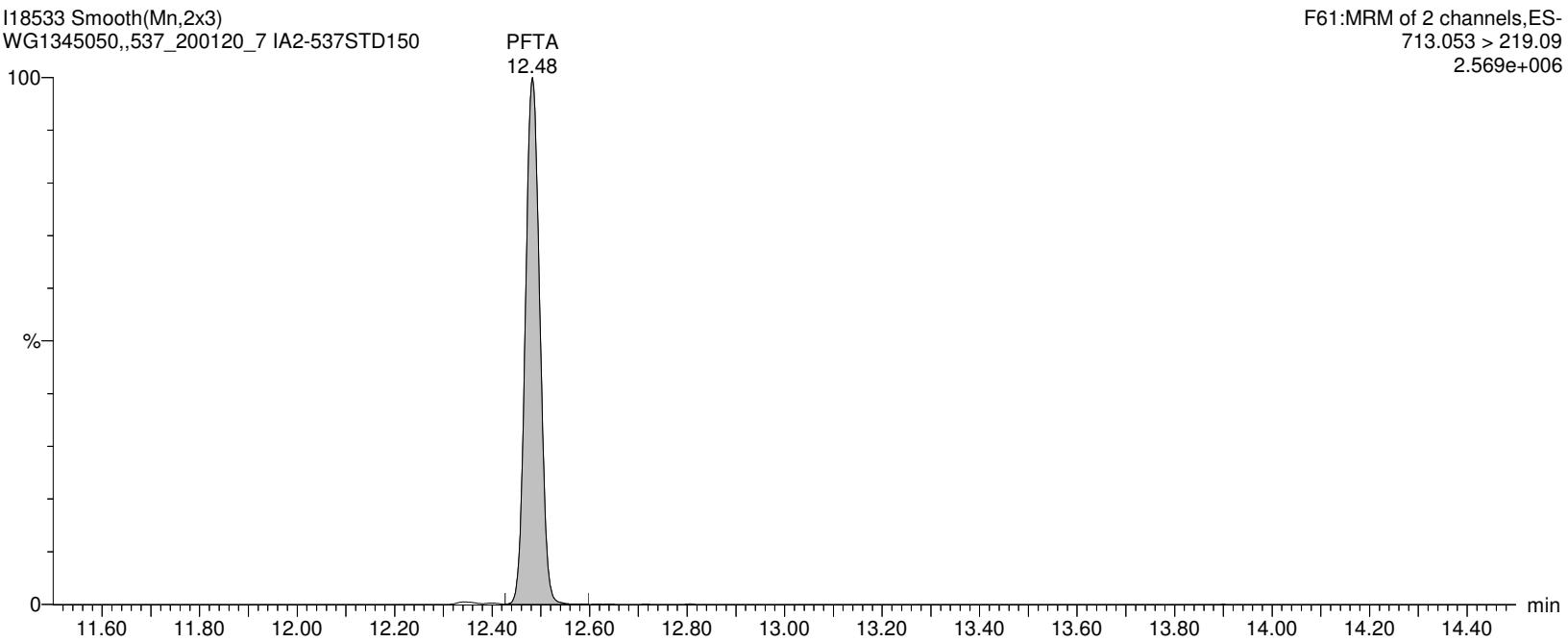

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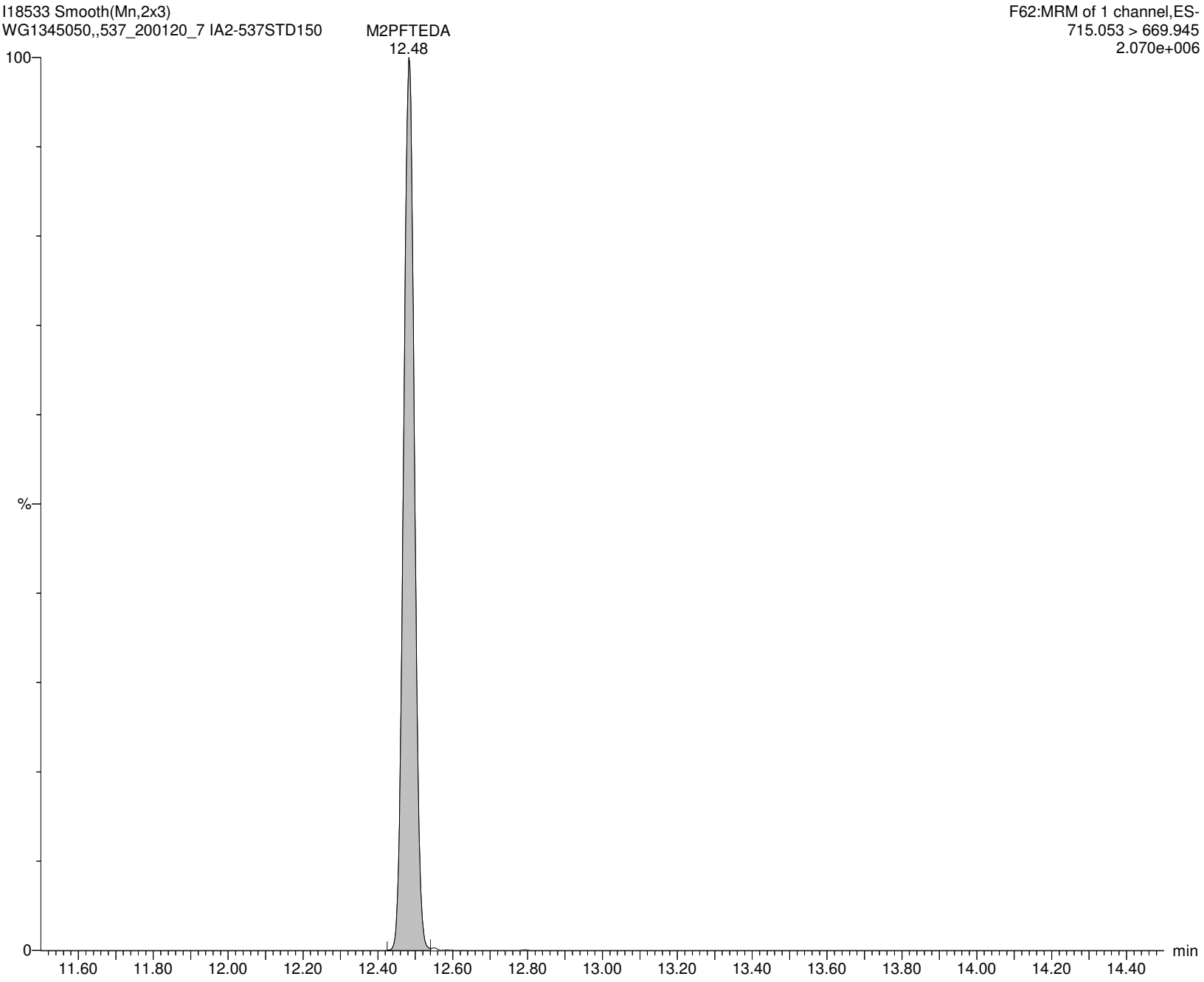
M2PFTEDA



all concentration units in (ng/mL)

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Printed: Friday, February 28, 2020 09:27:55 Eastern Standard Time

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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.23	212.926 > 169.111	765724		255.646		na	102.3
2	M3PFBA	INT STD	2.24	215.926 > 172.122	36272		9.224		na	92.2
3	MPFBA	INT STD	2.24	216.926 > 172.137	42043		10.116		na	101.2
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	936503		255.715		na	102.3
5	M5PFPEA	INT STD	5.21	267.989 > 223.081	53492		9.701		na	97.0
6	PFBS	375-73-5	5.87	298.926 > 79.923	191489		223.808	2.03	NO	101.2
7	M3PFBS	INT STD	5.87	301.989 > 80.254	9545		11.243		na	112.4
8	4:2FTS	757124-72-4	7.04	326.926 > 306.957	96127		ND	1.81	NO	
9	M2-4:2FTS	INT STD	7.04	329.117 > 309.079	9989		22.583		na	225.8
10	PFHxA	307-24-4	7.12	312.989 > 269.028	1222656		253.744	17.17	NO	101.5
11	M5PFHxA	INT STD	7.12	317.989 > 273.045	59290		10.426		na	104.3
12	PFPeS	2706-91-4	7.43	348.926 > 80.251	190569		243.620	2.35	NO	103.7
13	PFHpA	375-85-9	8.40	362.926 > 319.014	1473721		251.986	5.17	NO	100.8
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	67411		10.218		na	102.2
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	34081		44.106	2.99	NO	103.8
16	L-PFHxS	355-46-4	8.56	398.904 > 79.915	111634		191.185	1.98	NO	103.3
17	PFHxS	355-46-4		398.904 > 79.915	145714		235.291		na	
18	M3PFHxS	INT STD	8.55	401.926 > 80.317	7778		10.227		na	102.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.34	412.989 > 368.9	1412851		251.540	8.25	NO	100.6
21	M2PFOA	INT STD	9.35	415.032 > 369.968	69458		8.256		na	82.6
22	PFOA	335-67-1		412.989 > 368.9	1412851		251.540		na	
23	M8PFOA	INT STD	9.34	420.989 > 375.979	67823		10.240		na	102.4
24	6:2FTS	27619-97-2	9.30	426.989 > 406.921	21261		116.569	0.69	NO	49.1
25	M2-6:2FTS	INT STD	9.30	428.989 > 408.917	7645		27.779		na	277.8
26	PFHpS	375-92-8	9.43	448.926 > 80.257	101143		238.568	1.05	NO	100.4
27	PFNA	375-95-1	10.09	462.989 > 418.931	1202891		243.380	3.90	NO	97.4
28	M9PFNA	INT STD	10.09	472.053 > 426.947	66426		10.258		na	102.6
29	br-PFOS	1763-23-1	9.95	498.968 > 79.918	43614	M5	51.700	3.97	NO	103.4
30	L-PFOS	1763-23-1	10.14	498.968 > 79.918	86944		190.076	1.36	NO	104.2
31	PFOS	1763-23-1		498.968 > 79.918	130558		241.776		na	
32	M4PFOS	INT STD	10.14	503.032 > 80.306	6618		7.791		na	77.9
33	M8PFOS	INT STD	10.14	507.053 > 80.294	7526		9.793		na	97.9
34	PFDA	335-76-2	10.71	513.053 > 468.906	1056450		258.950	5.55	NO	103.6
35	M2PFDA	INT STD	10.71	515.053 > 469.934	50151		7.582		na	75.8
36	M6PFDA	INT STD	10.71	519.053 > 473.931	53263		9.653		na	96.5
37	8:2FTS	39108-34-4	10.71	527.032 > 507.079	25025		ND	1.65	NO	
38	M2-8:2FTS	INT STD	10.71	529.053 > 508.945	3226		19.382		na	193.8
39	PFNS	68259-12-1	10.74	548.989 > 80.249	129896		247.351	1.48	NO	103.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: IA2-537STD250
Name: I18534
Date: 27-Feb-2020
Time: 15:25:04
Description: WG1345050,,537_200120_8
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	8872		12.137		na	121.4
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	137711		259.740	2.77	NO	103.9
42	PFUnA	2058-94-8	11.25	562.989 > 518.903	979808		271.907	7.16	NO	108.8
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	42396		8.744		na	87.4
44	PFDS	335-77-3	11.26	598.926 > 80.314	125274		243.305	1.60	NO	100.9
45	FOSA	754-91-6	11.12	497.989 > 78.245	506613		259.349	189.16	NO	103.7
46	M8FOSA	INT STD	11.12	506.053 > 78.286	23742		10.737		na	107.4
47	d5-NEtFOSAA	INT STD	11.37	589.117 > 418.929	6222		11.672		na	116.7
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	139937		263.670	3.17	NO	105.5
49	PFDoA	307-55-1	11.72	612.989 > 568.967	1291296		255.712	13.71	NO	102.3
50	MPFDOA	INT STD	11.72	614.989 > 569.92	55621		10.670		na	106.7
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	1070954		233.305	11.52	NO	93.3
52	PFTA	376-06-7	12.48	713.053 > 668.976	1176527		257.810	8.74	NO	103.1
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	61592		10.483		na	104.8

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Calibration: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 09:12:40

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Vial: 1:B,1
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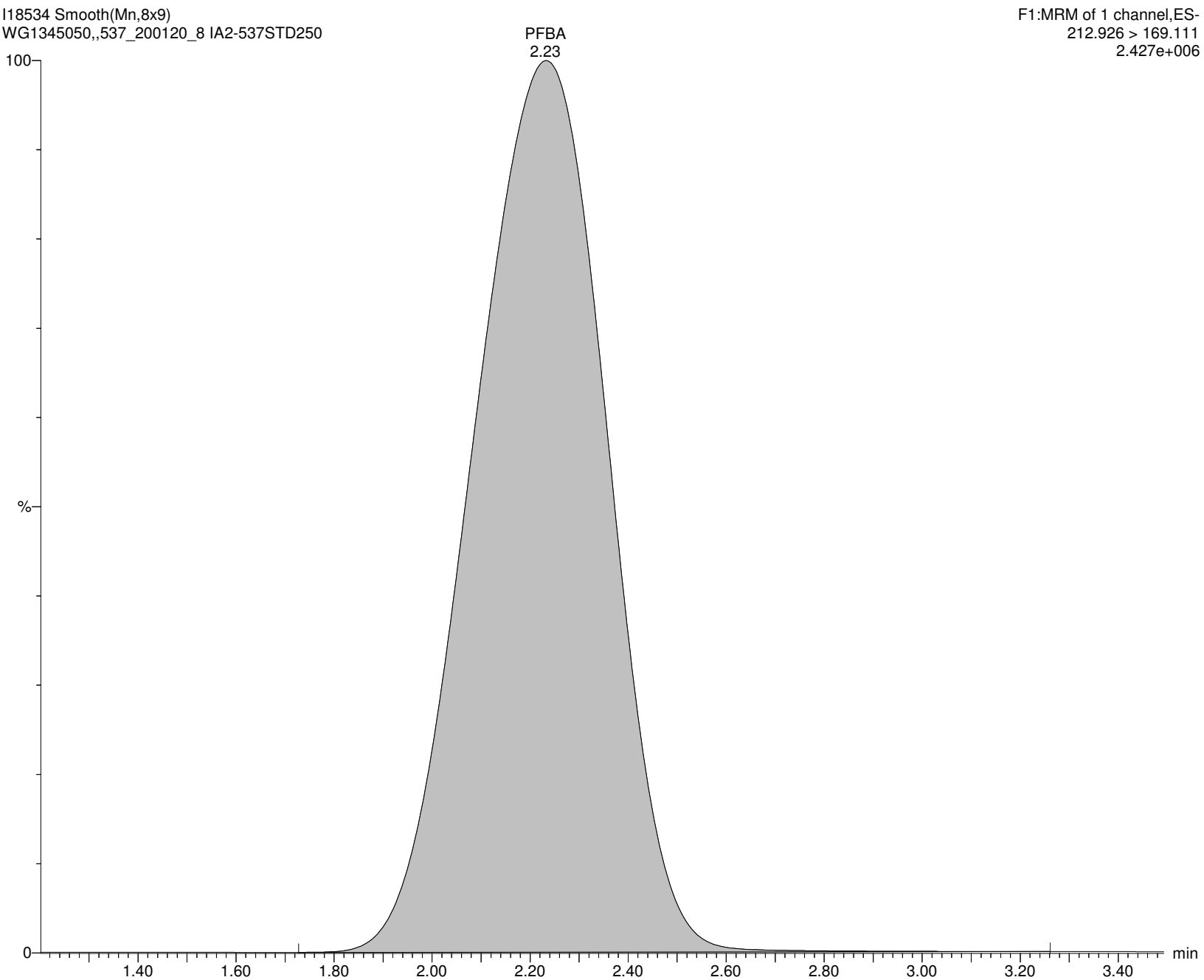

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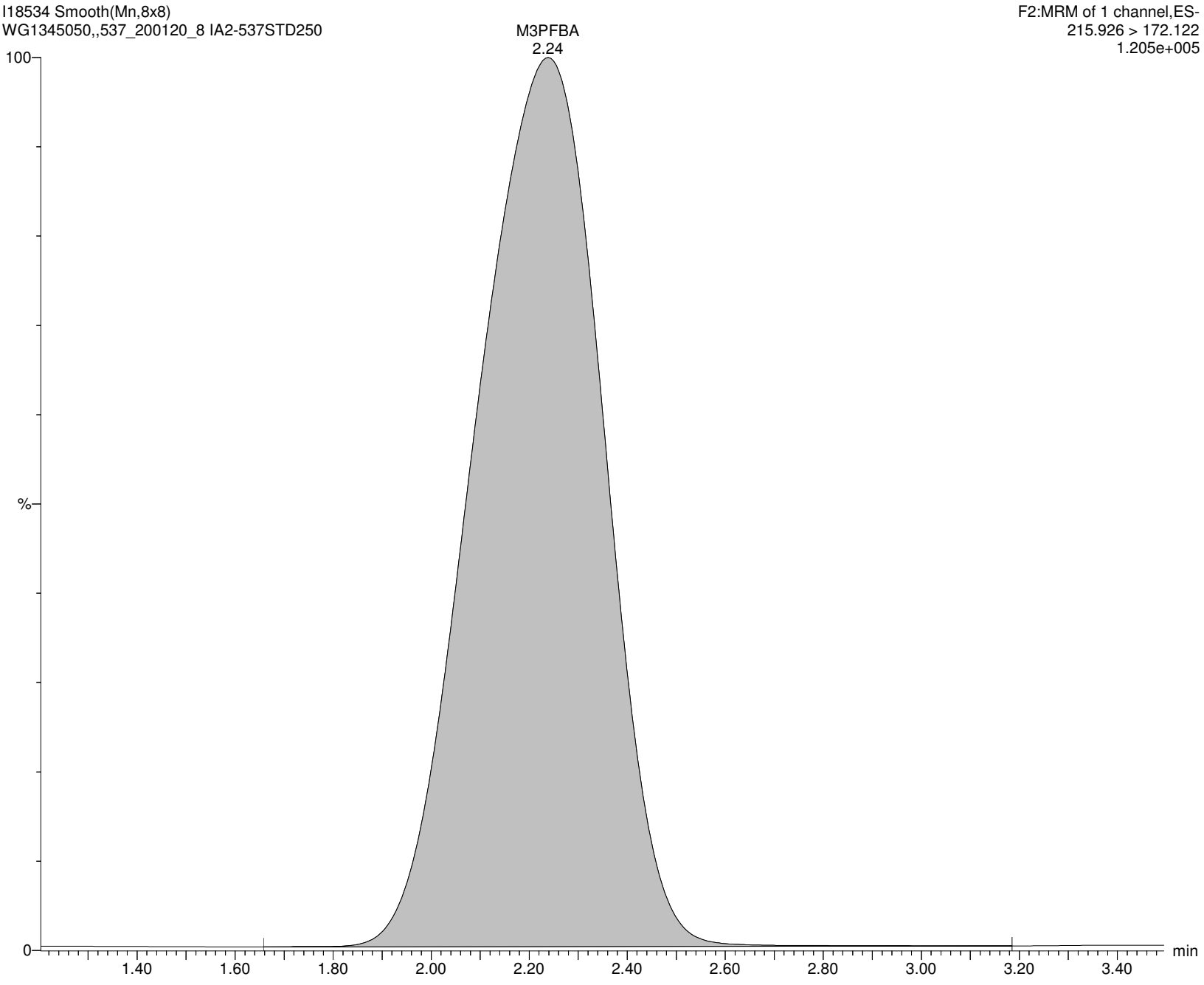

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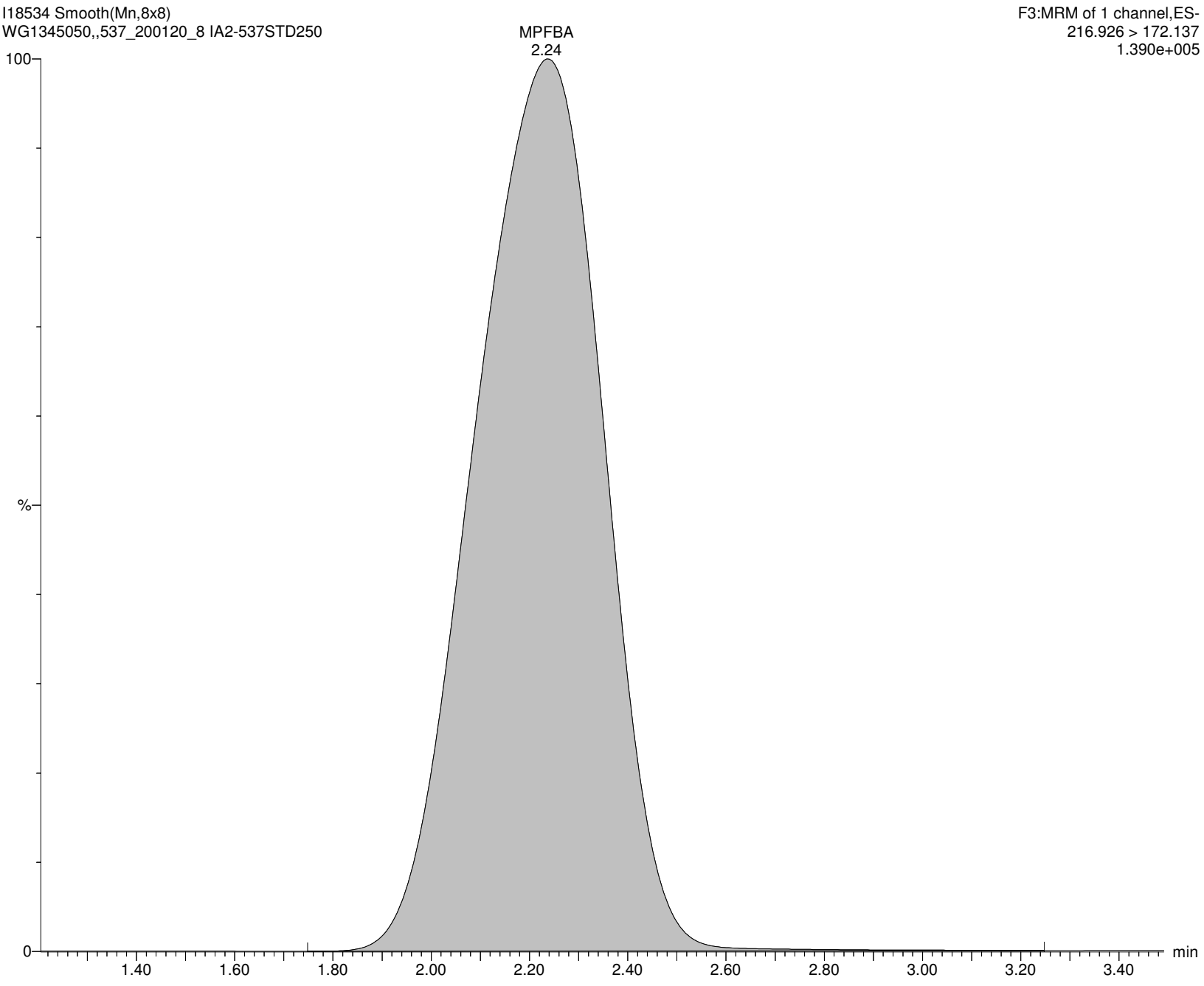

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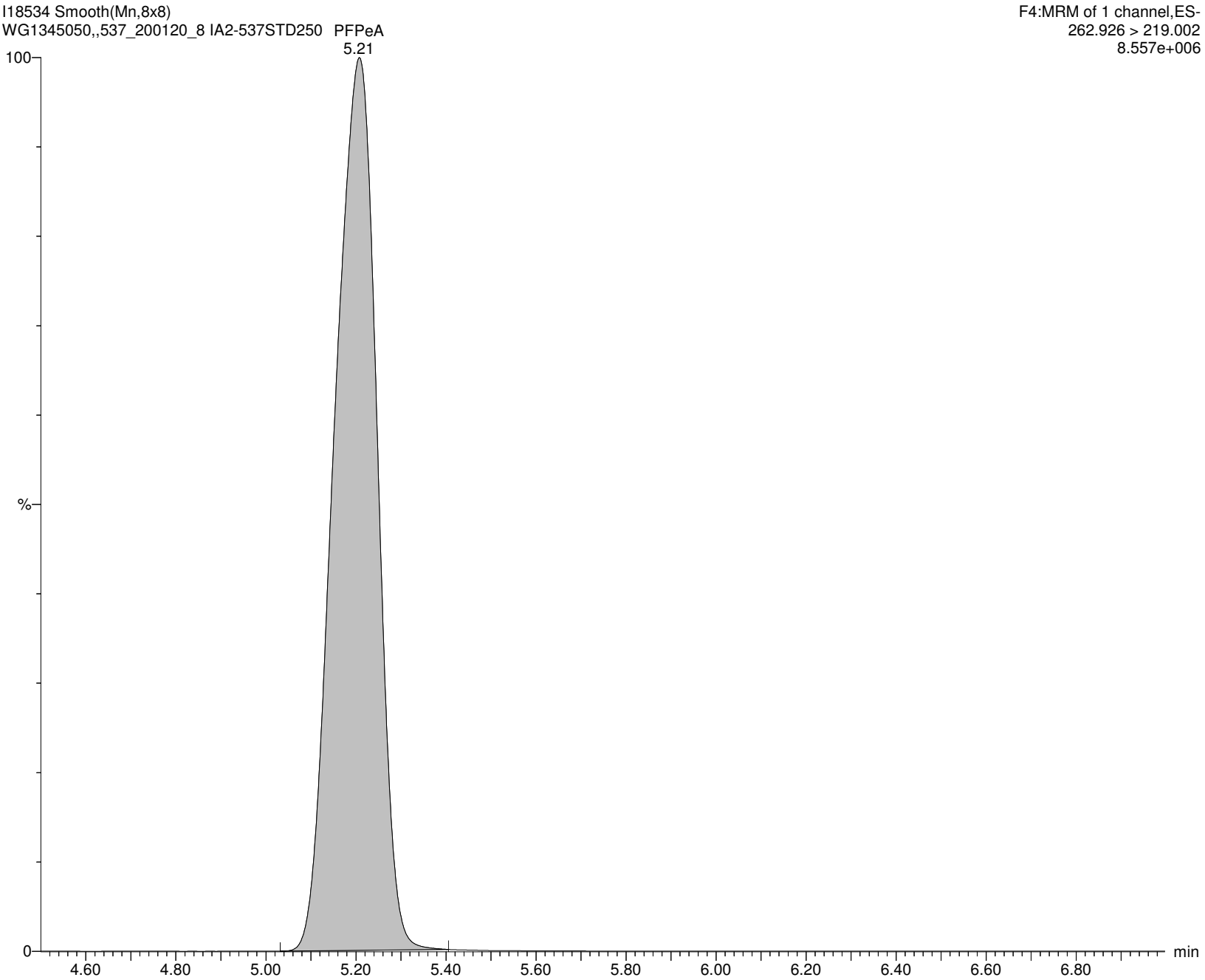

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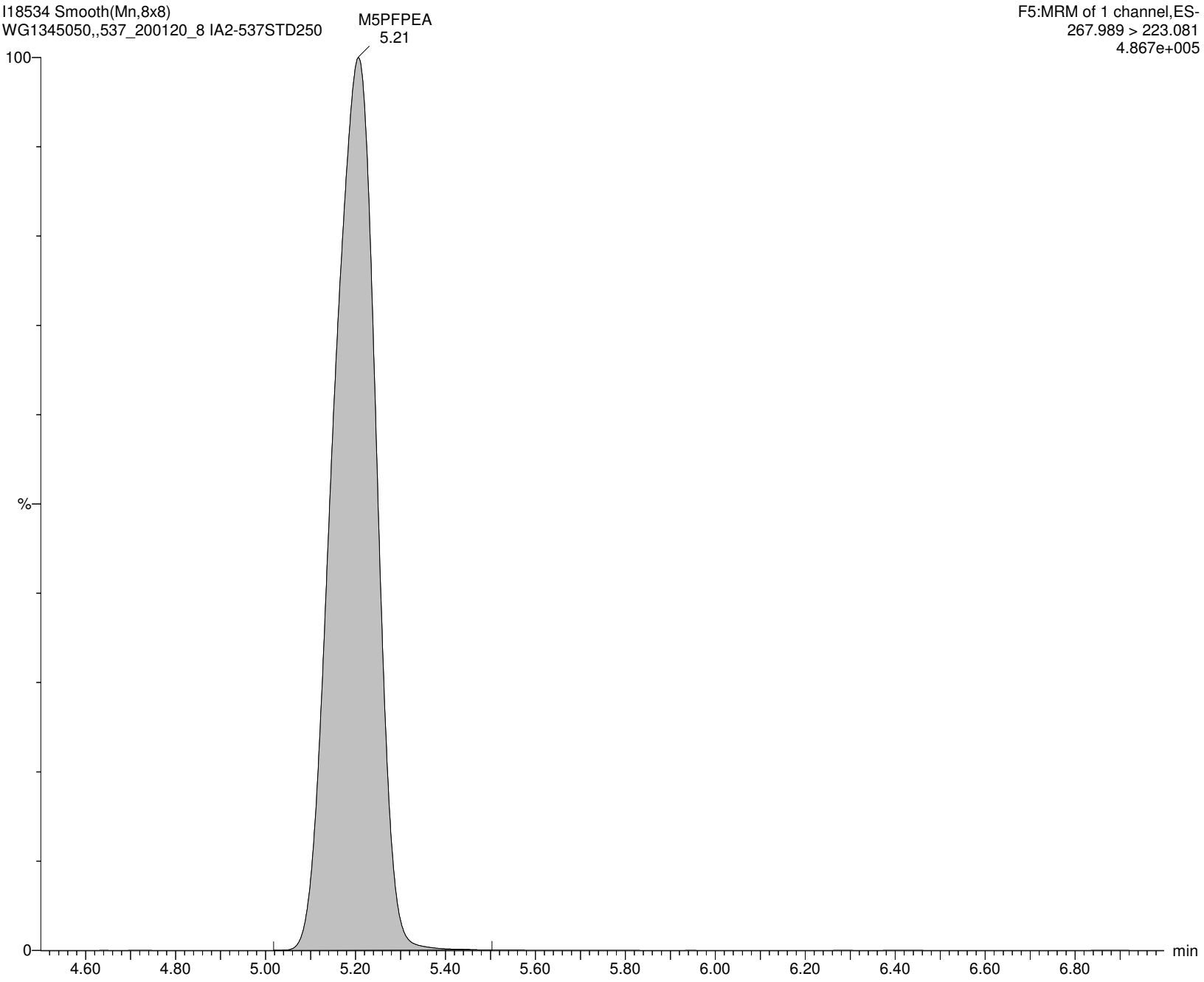

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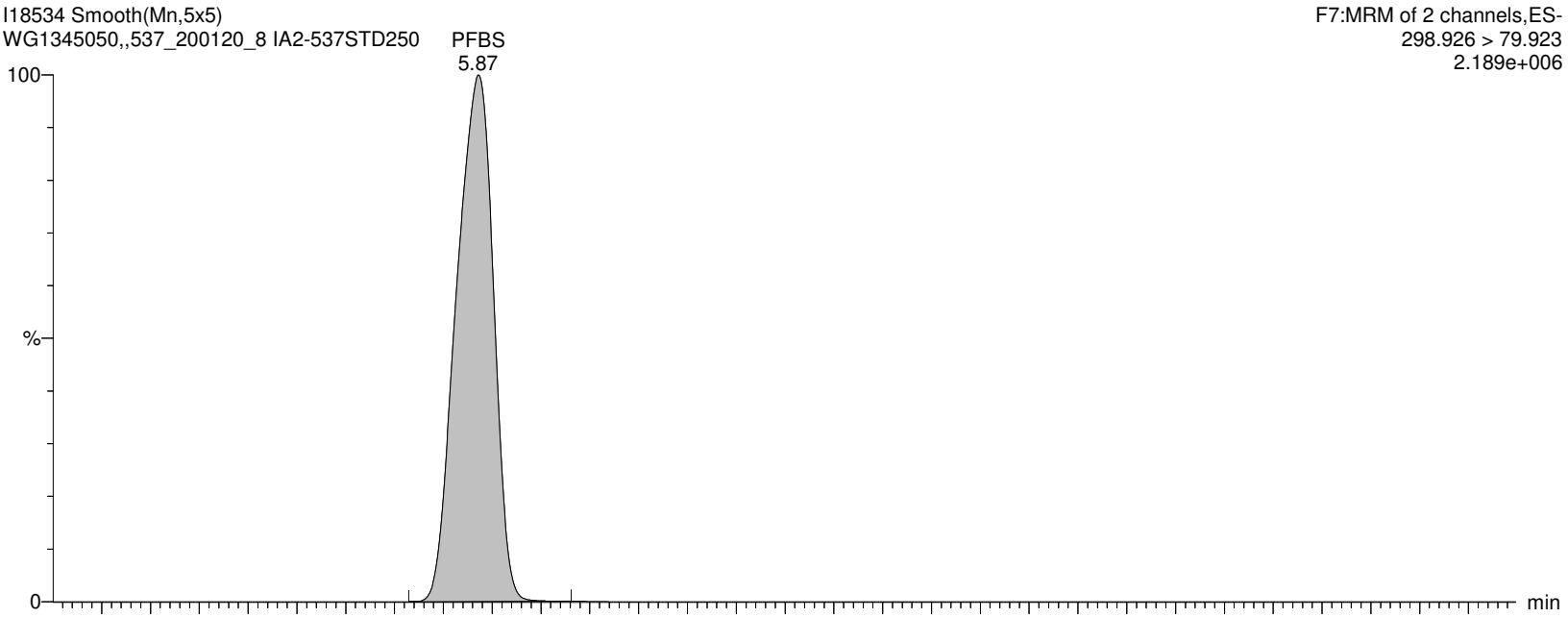

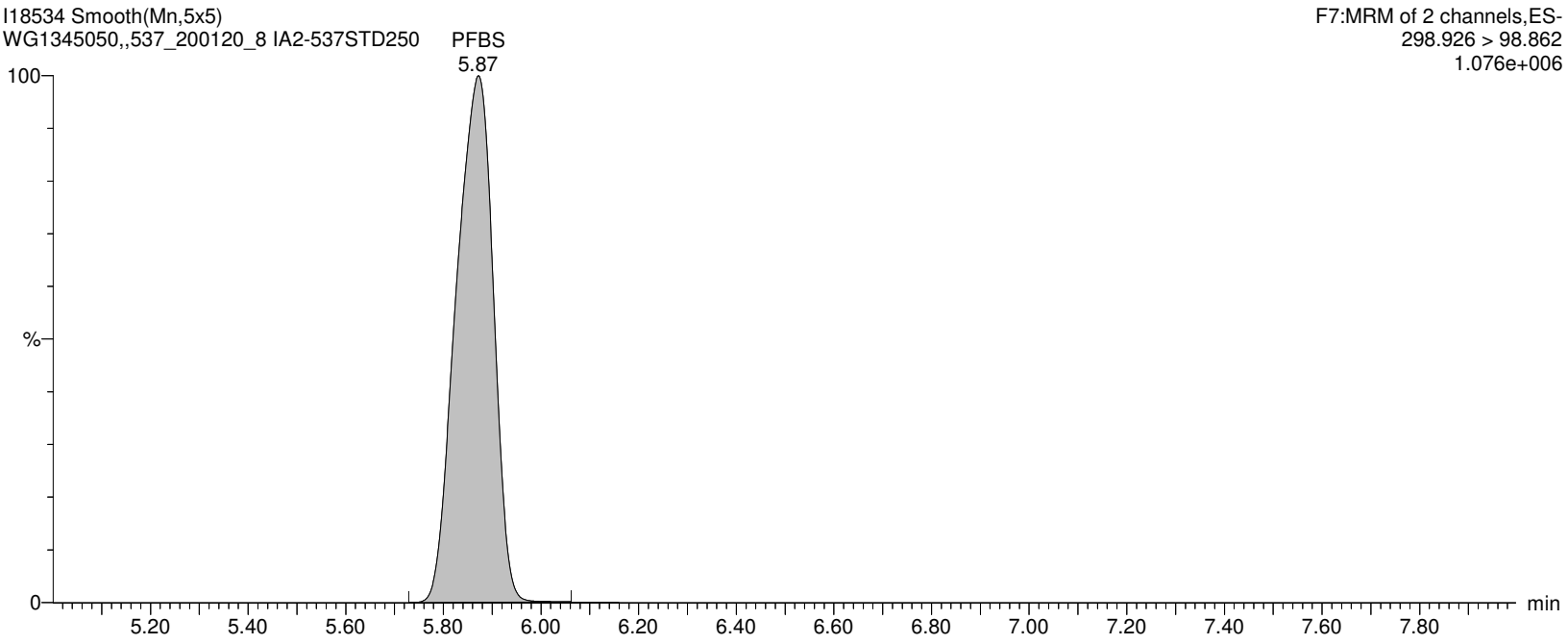

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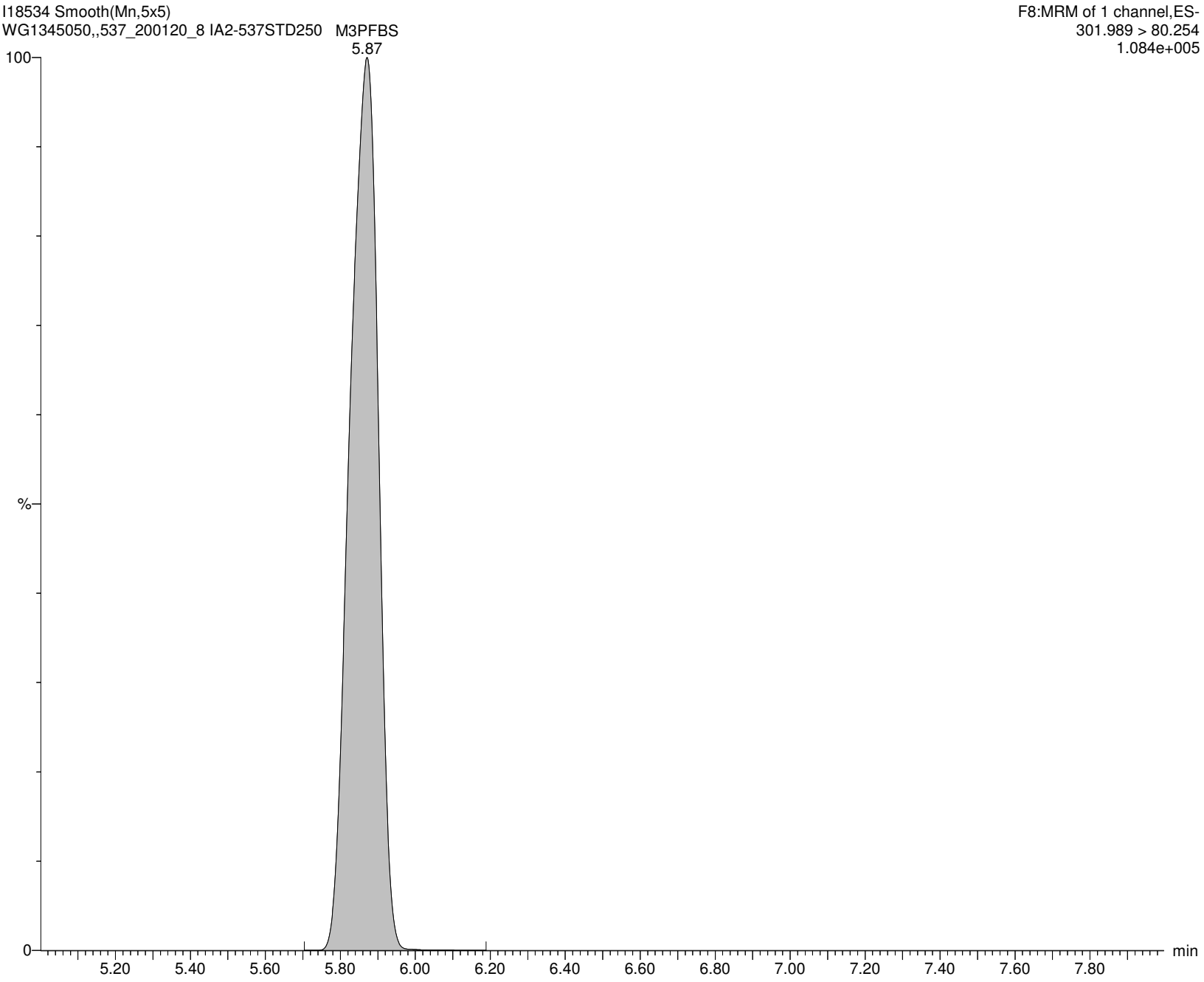

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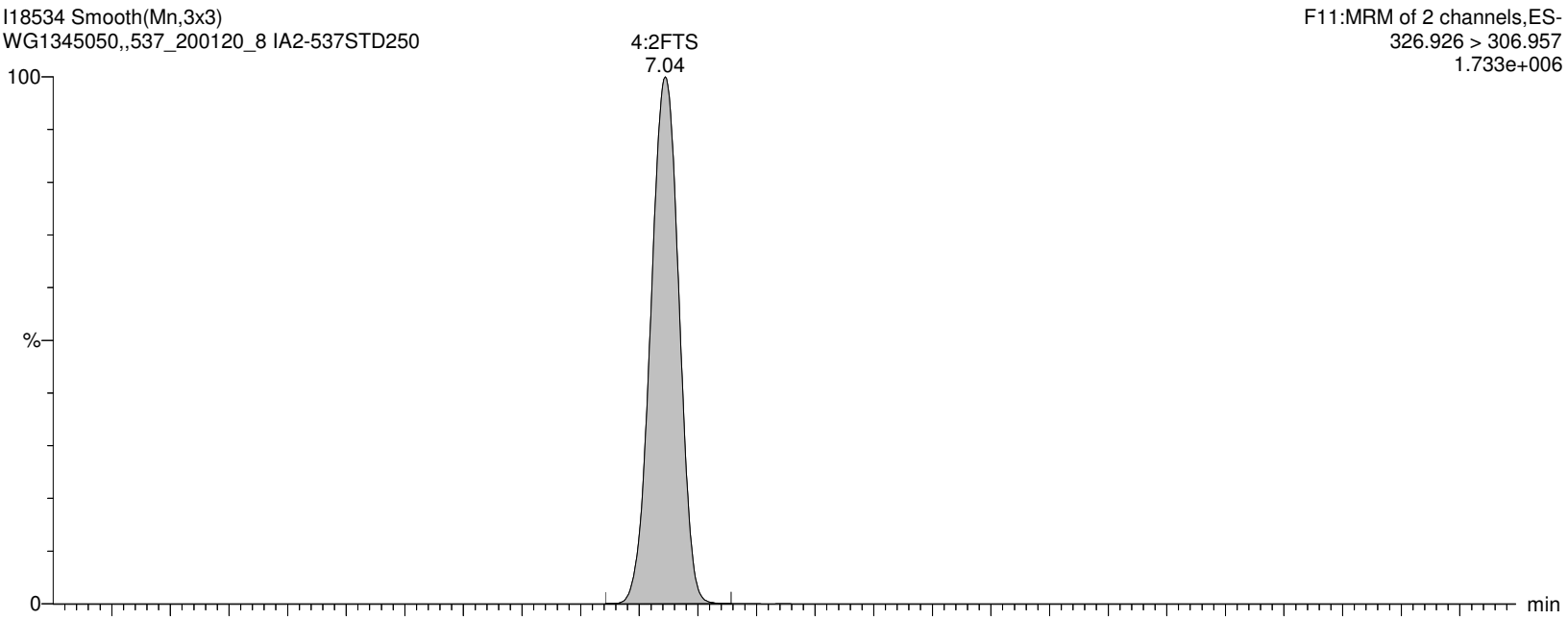
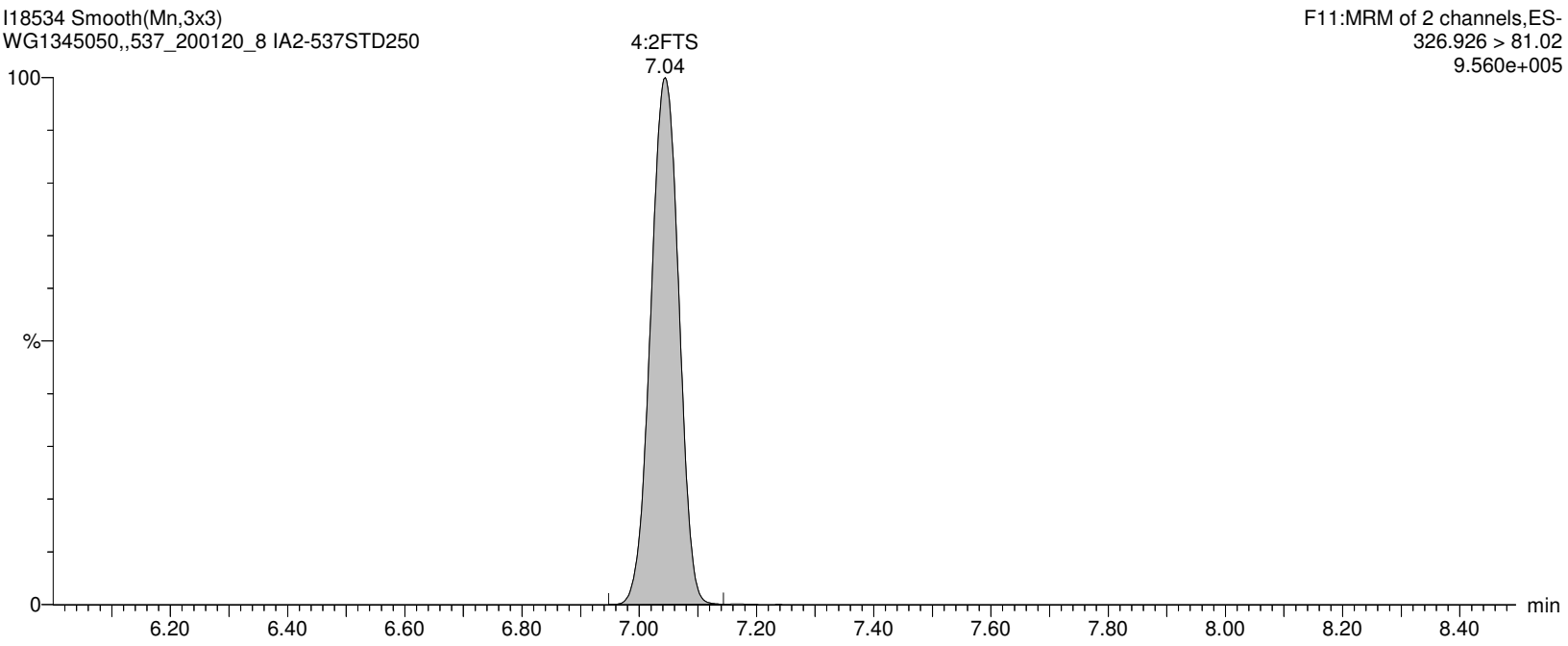
4:2FTS





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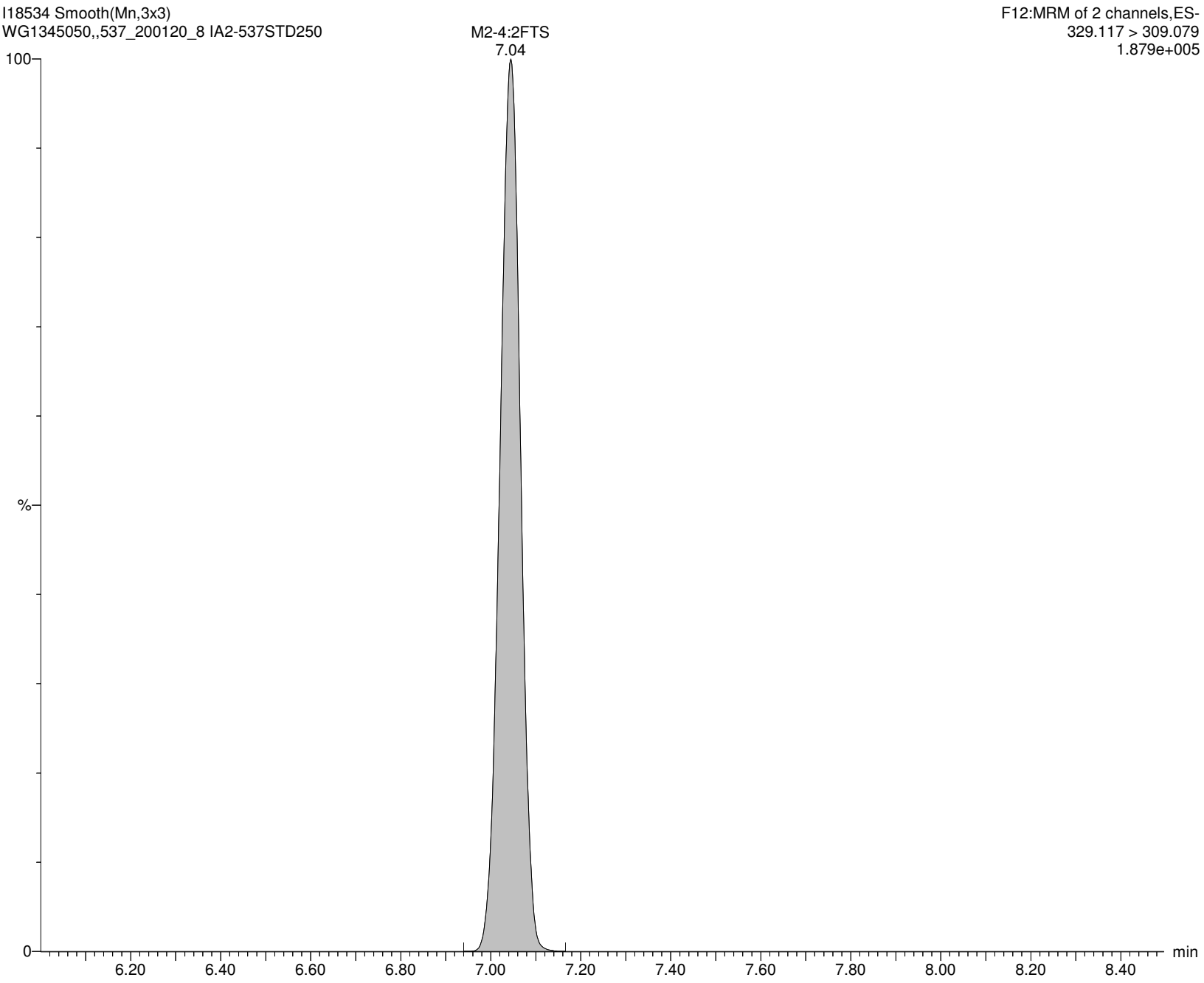

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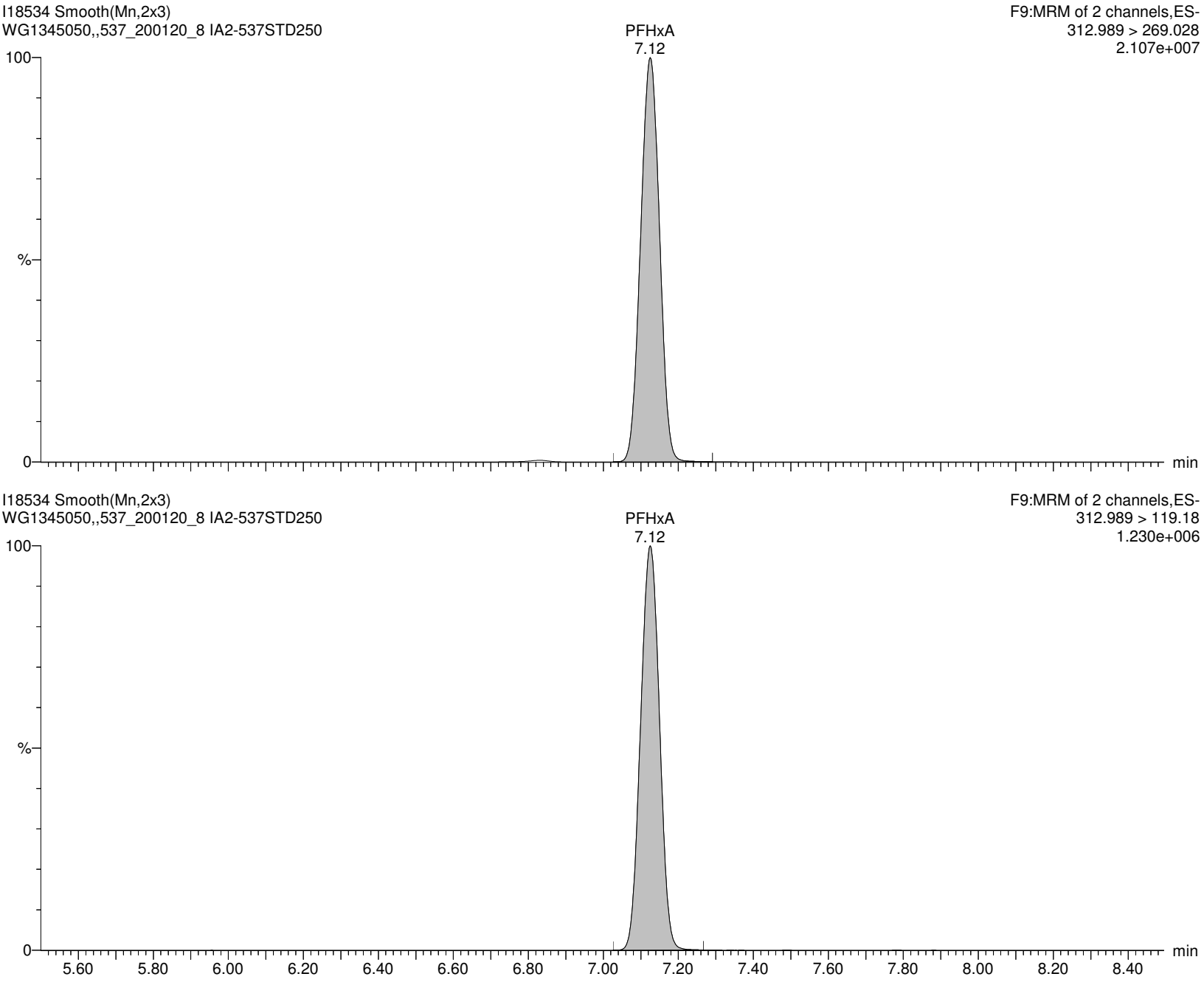

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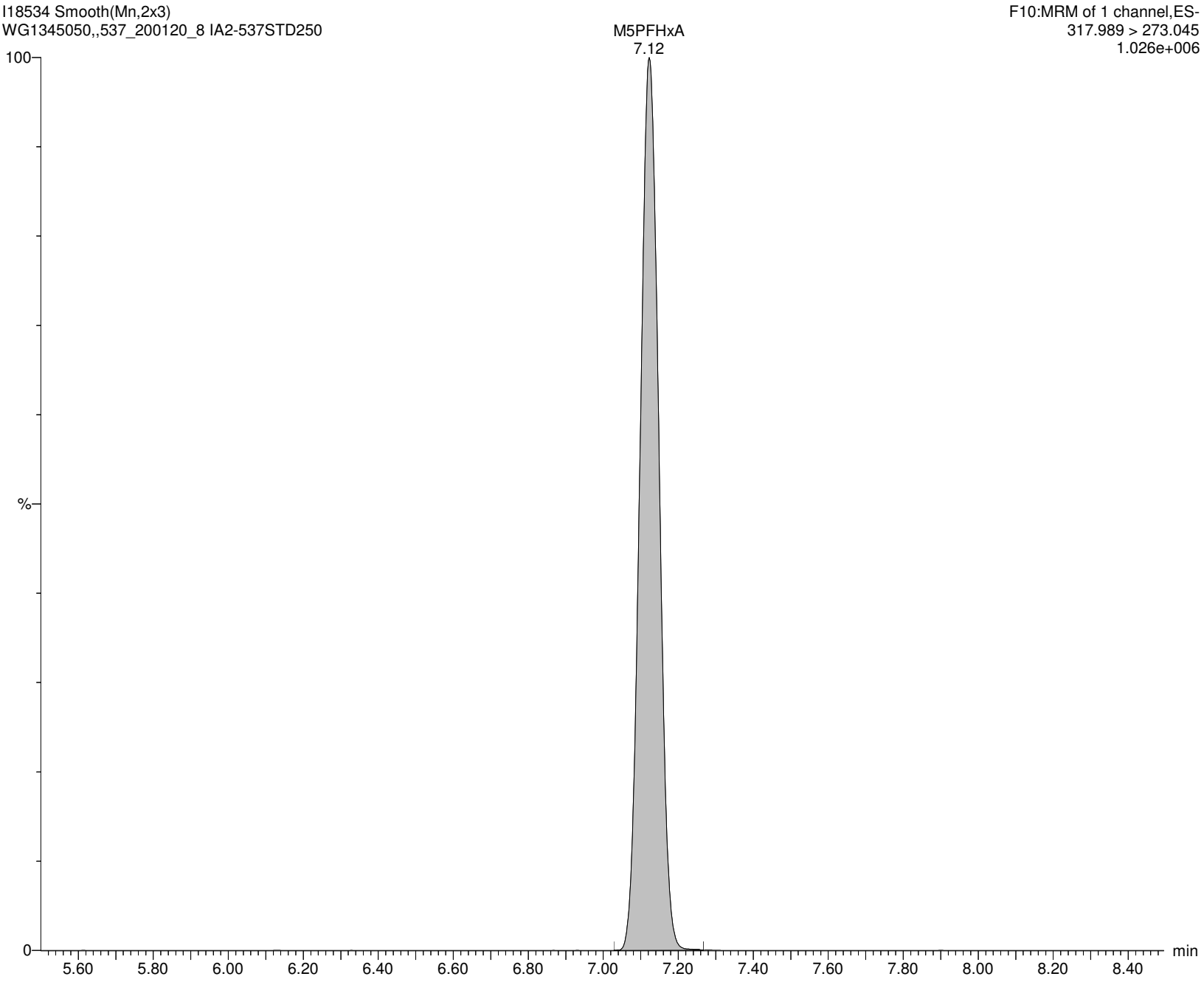

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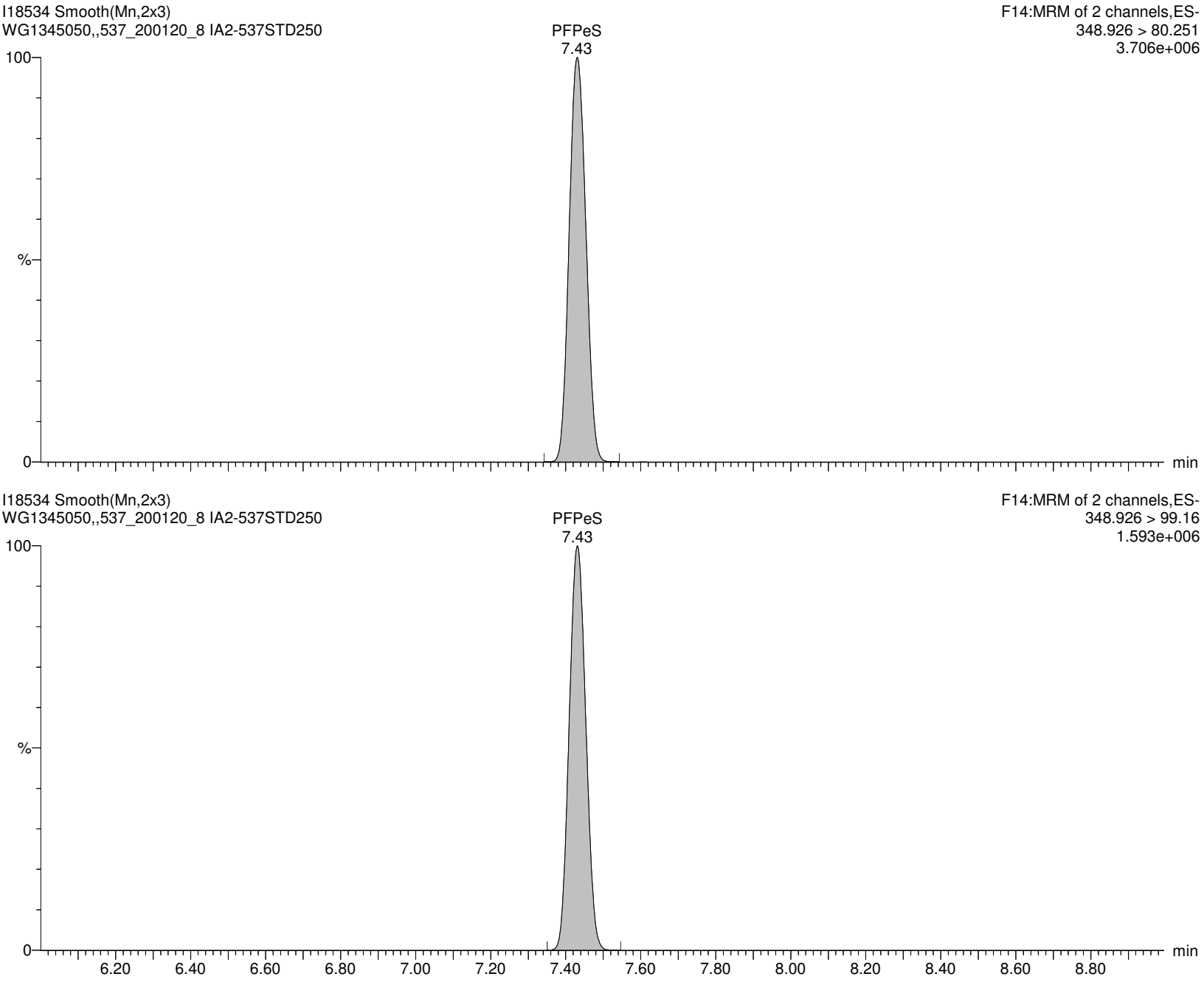

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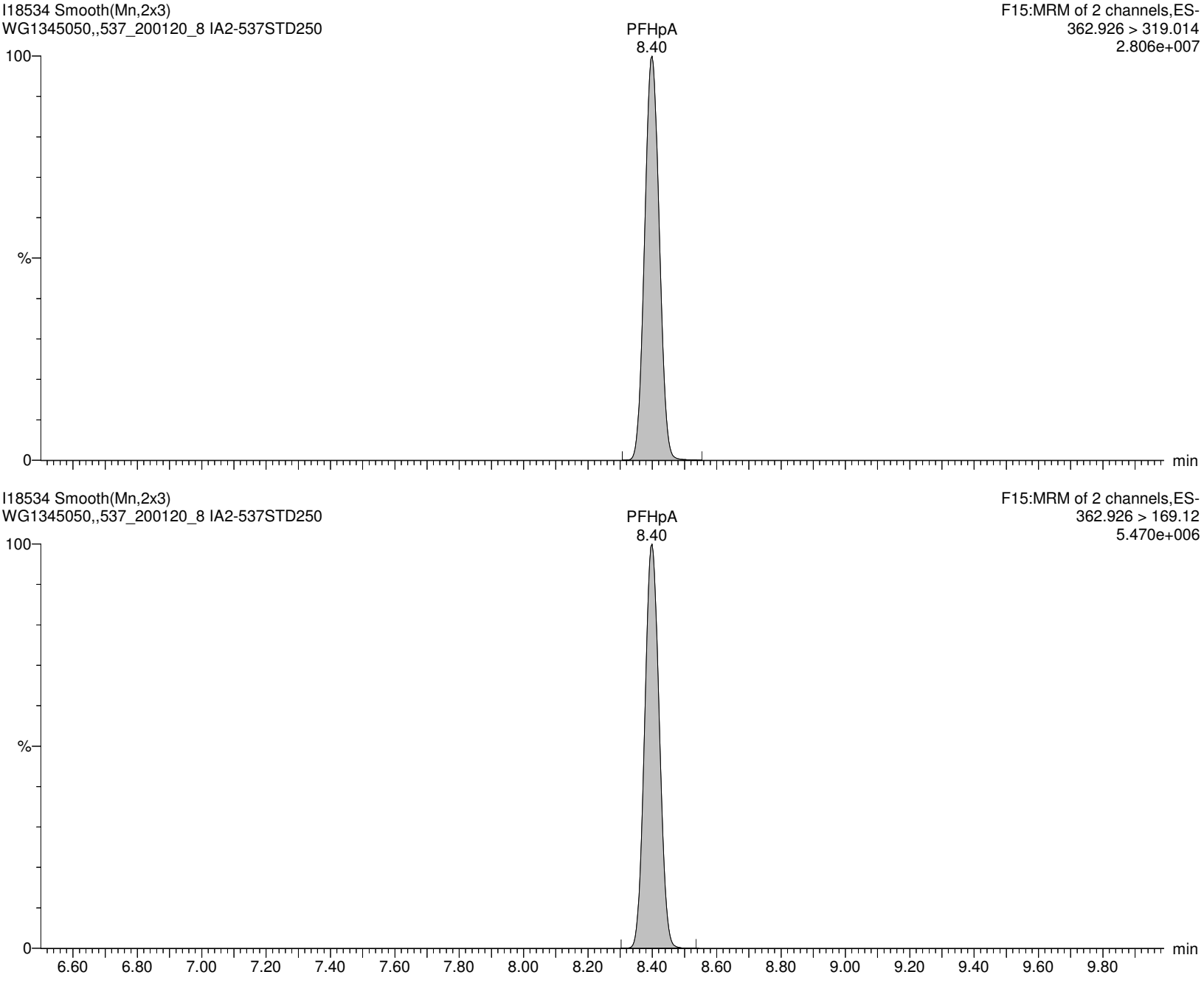

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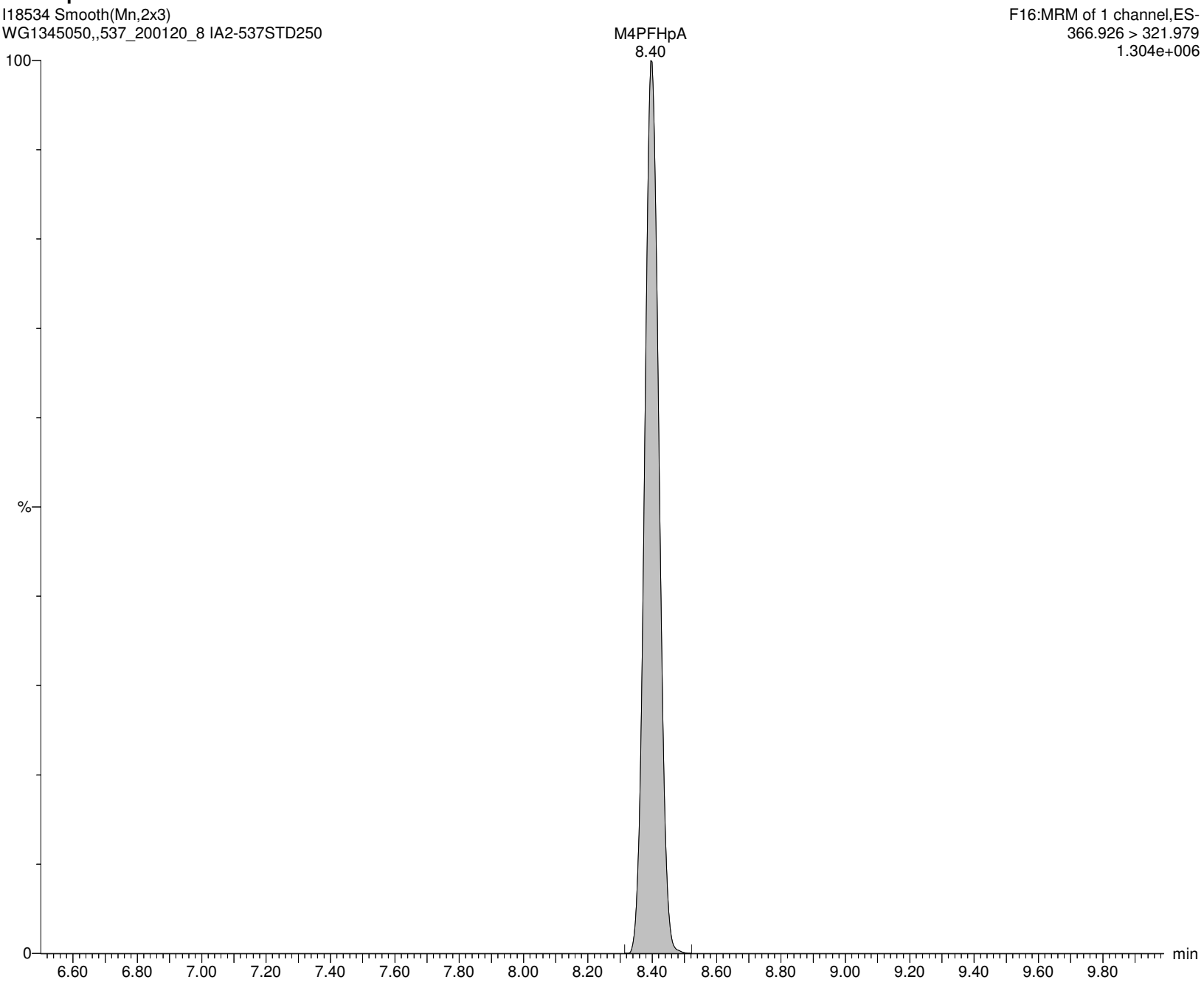

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:55 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:25:04
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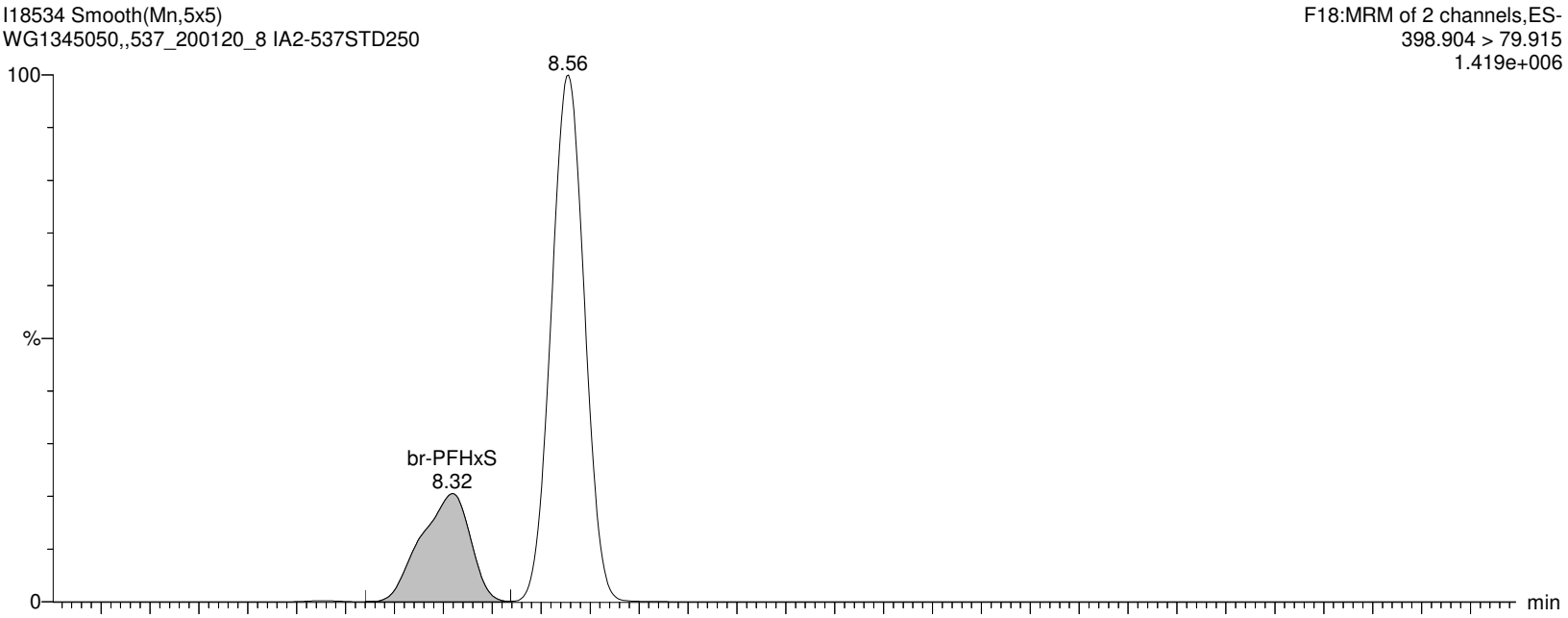

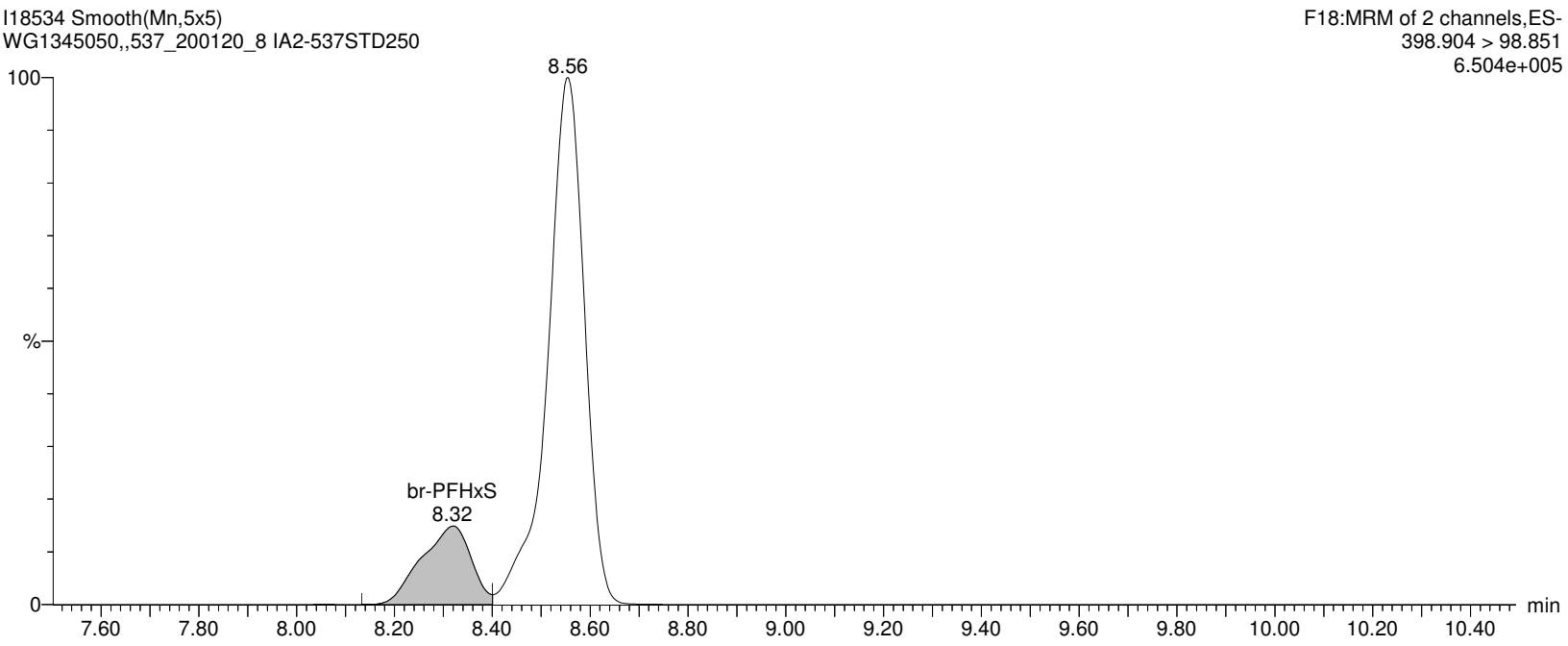

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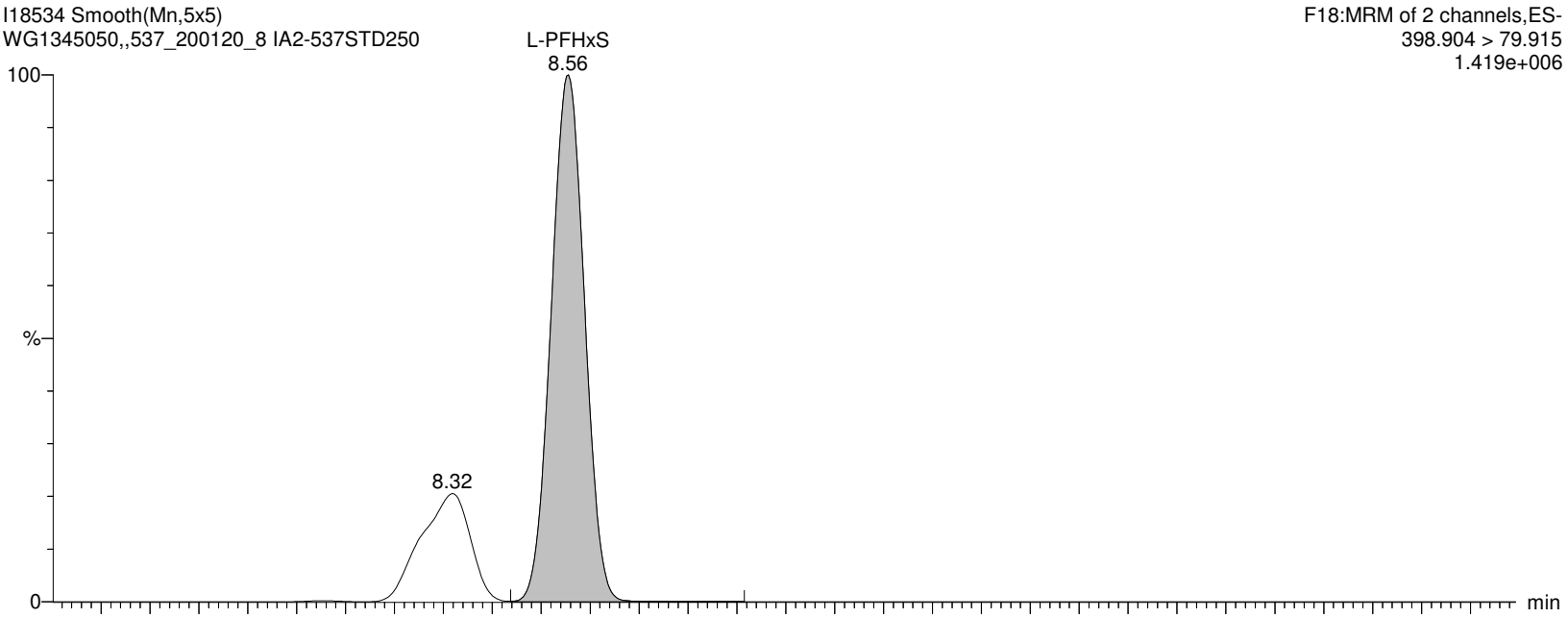

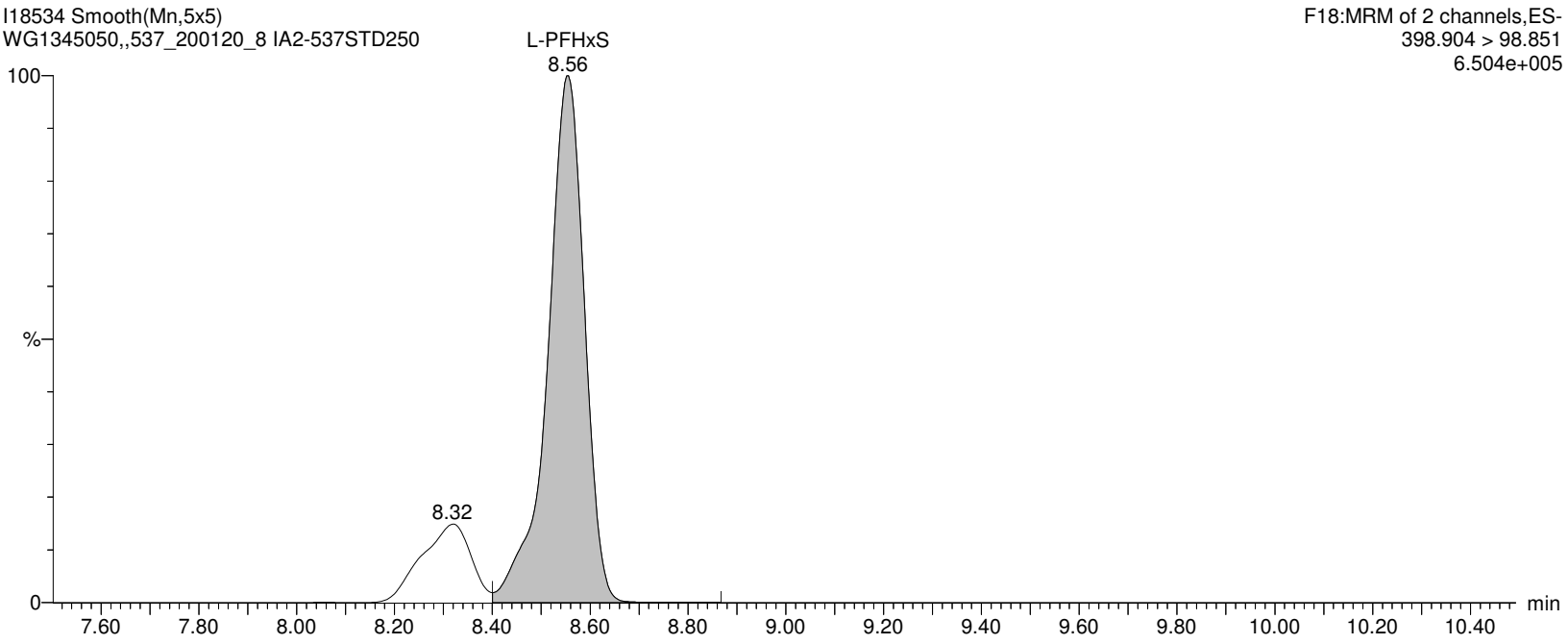

all concentration units in (ng/mL)

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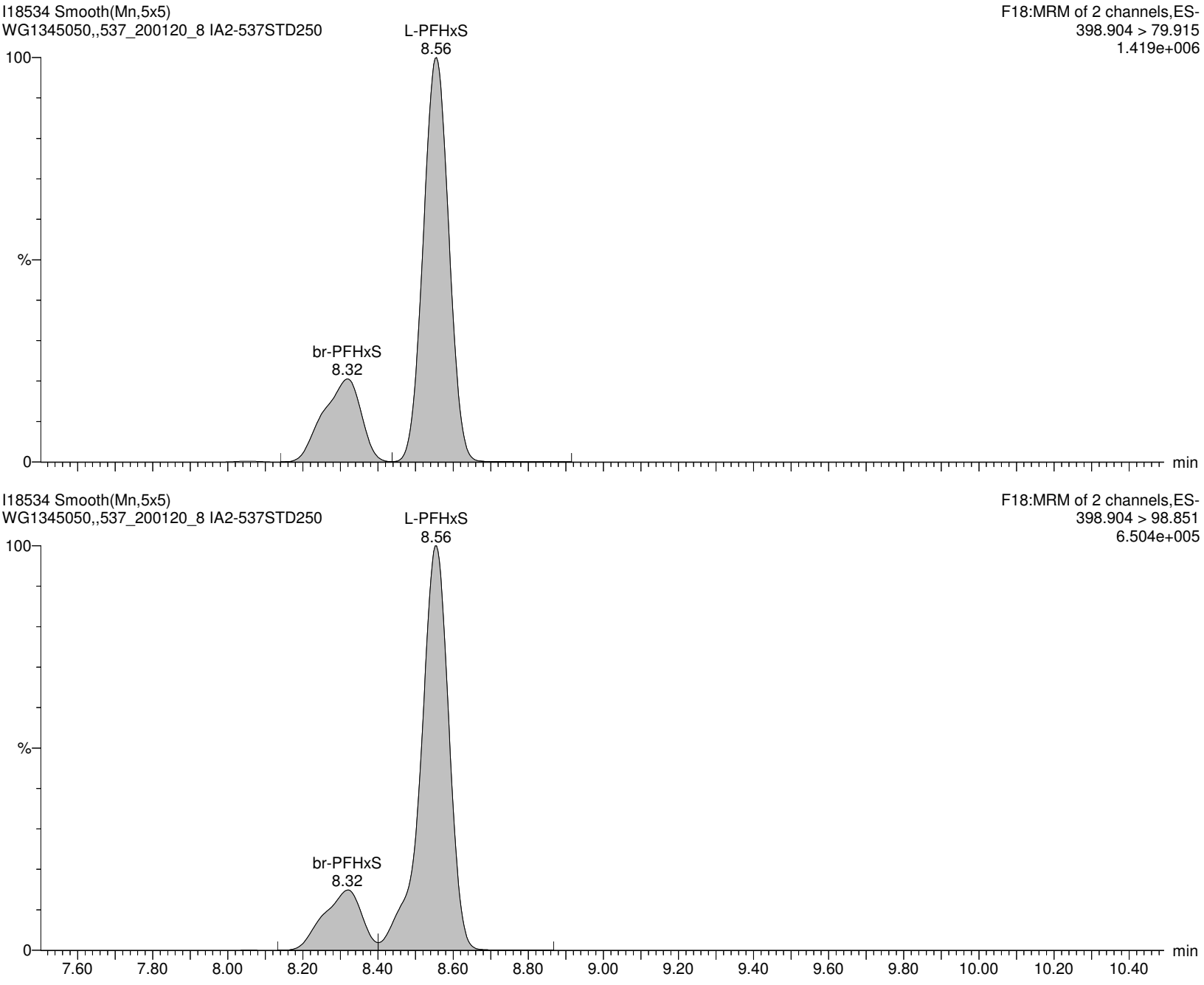

all concentration units in (ng/mL)

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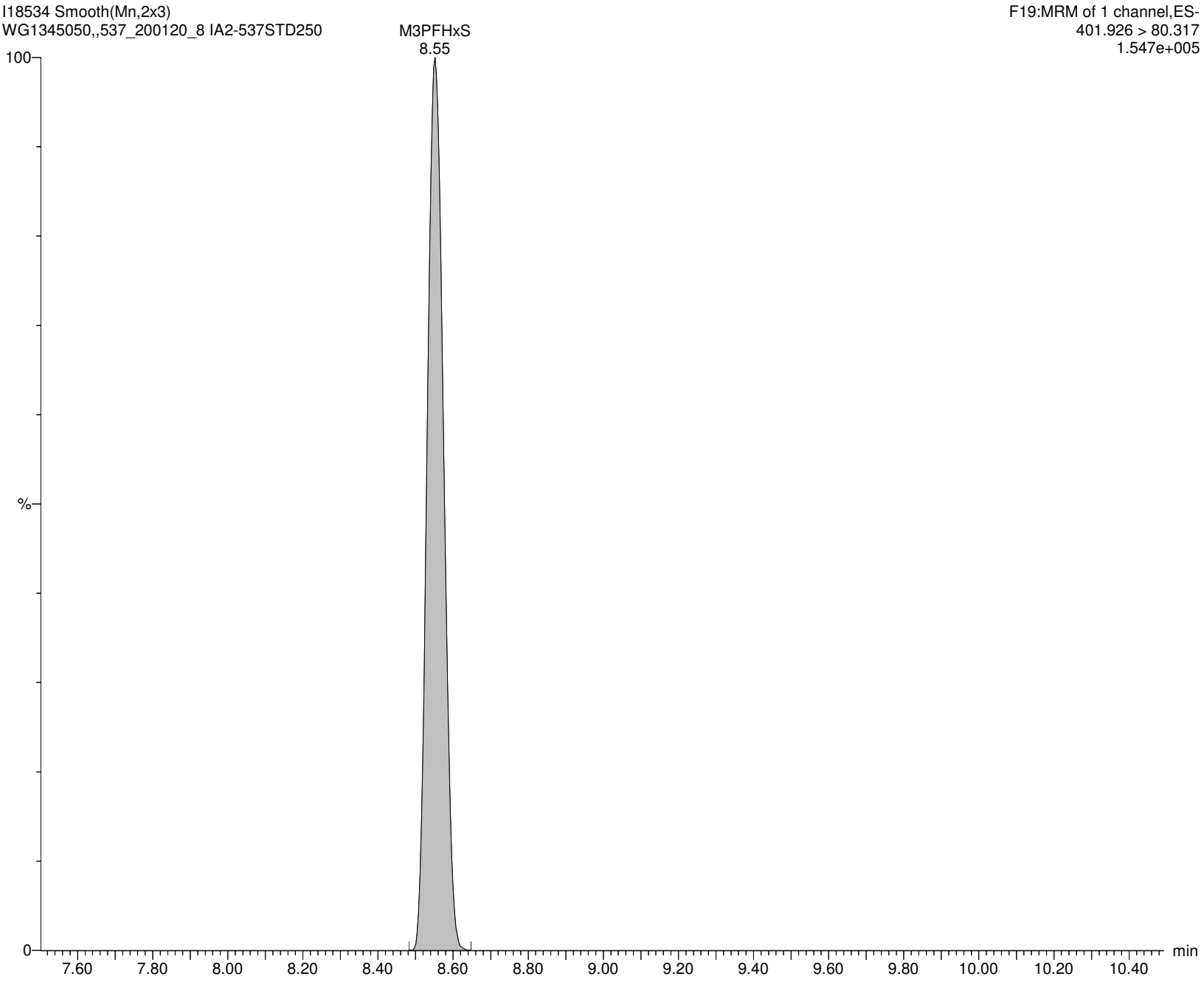

all concentration units in (ng/mL)

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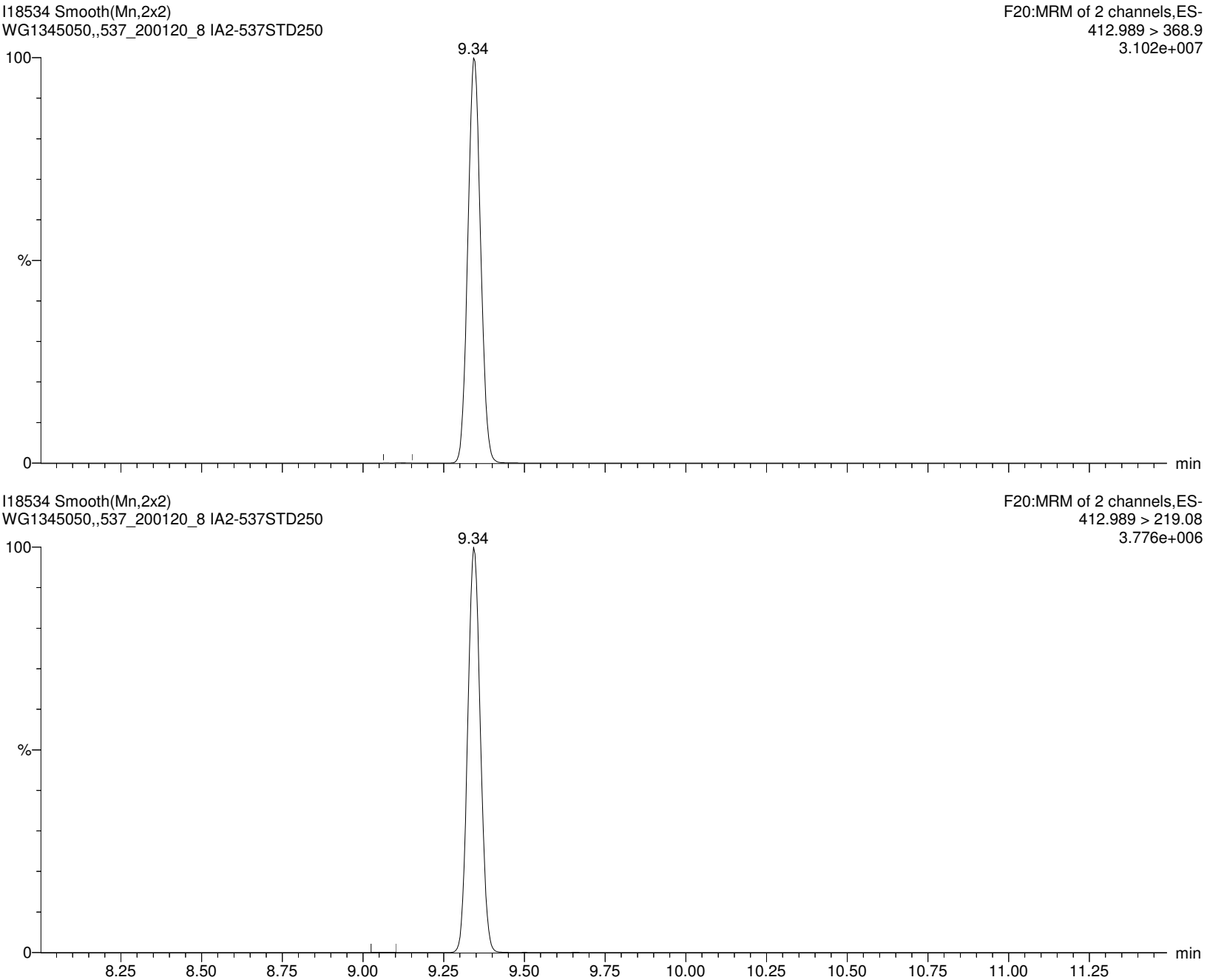

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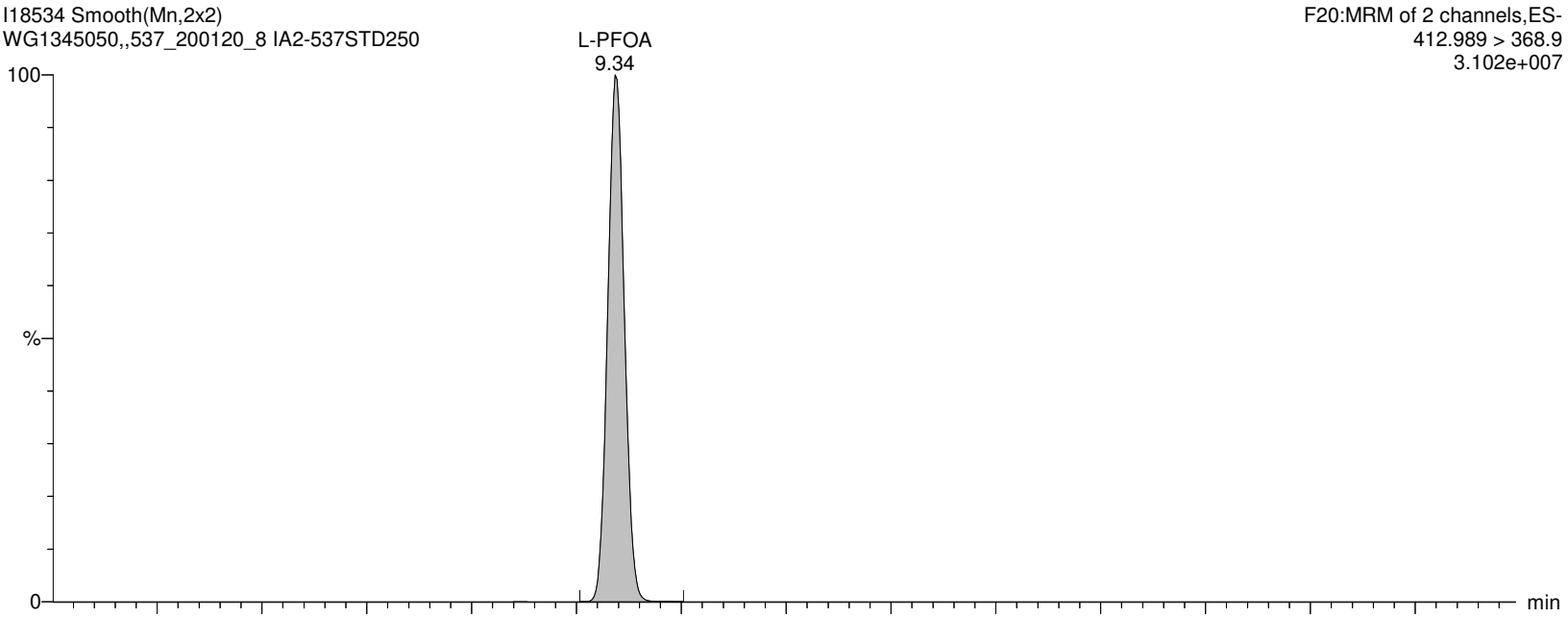

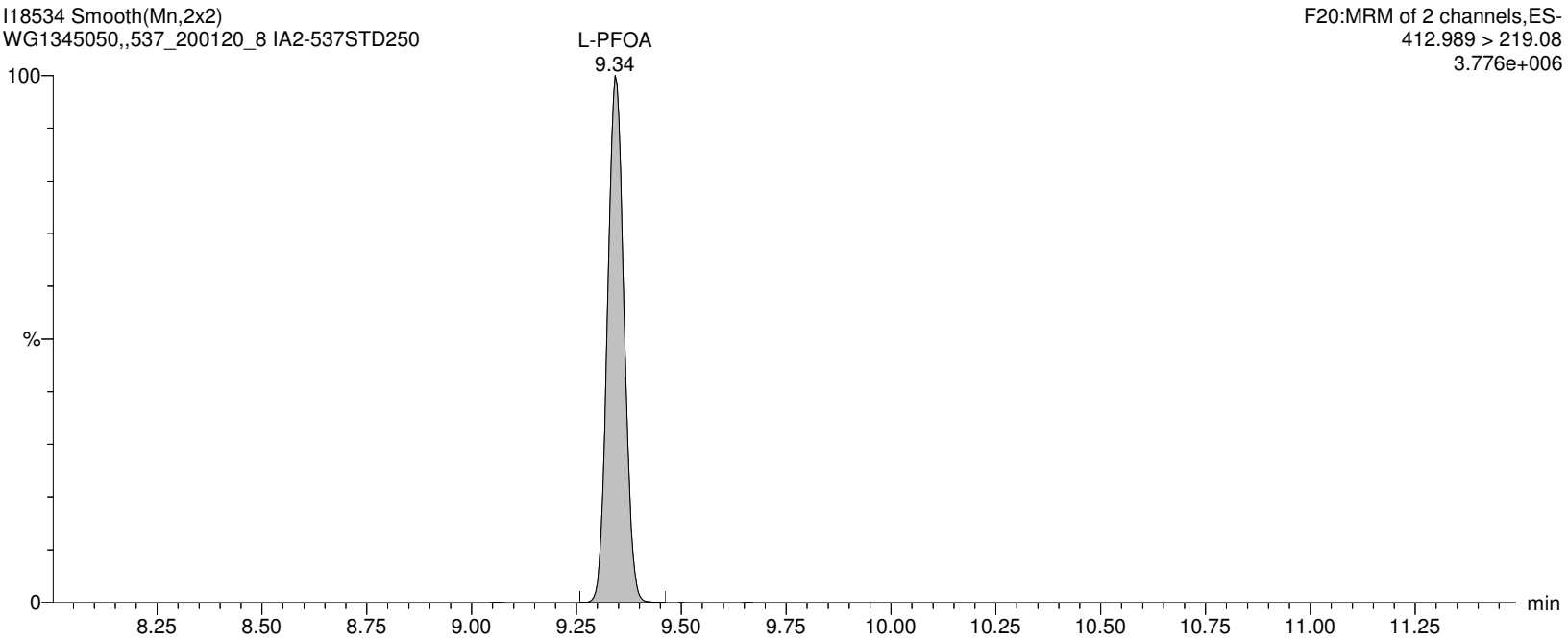

all concentration units in (ng/mL)

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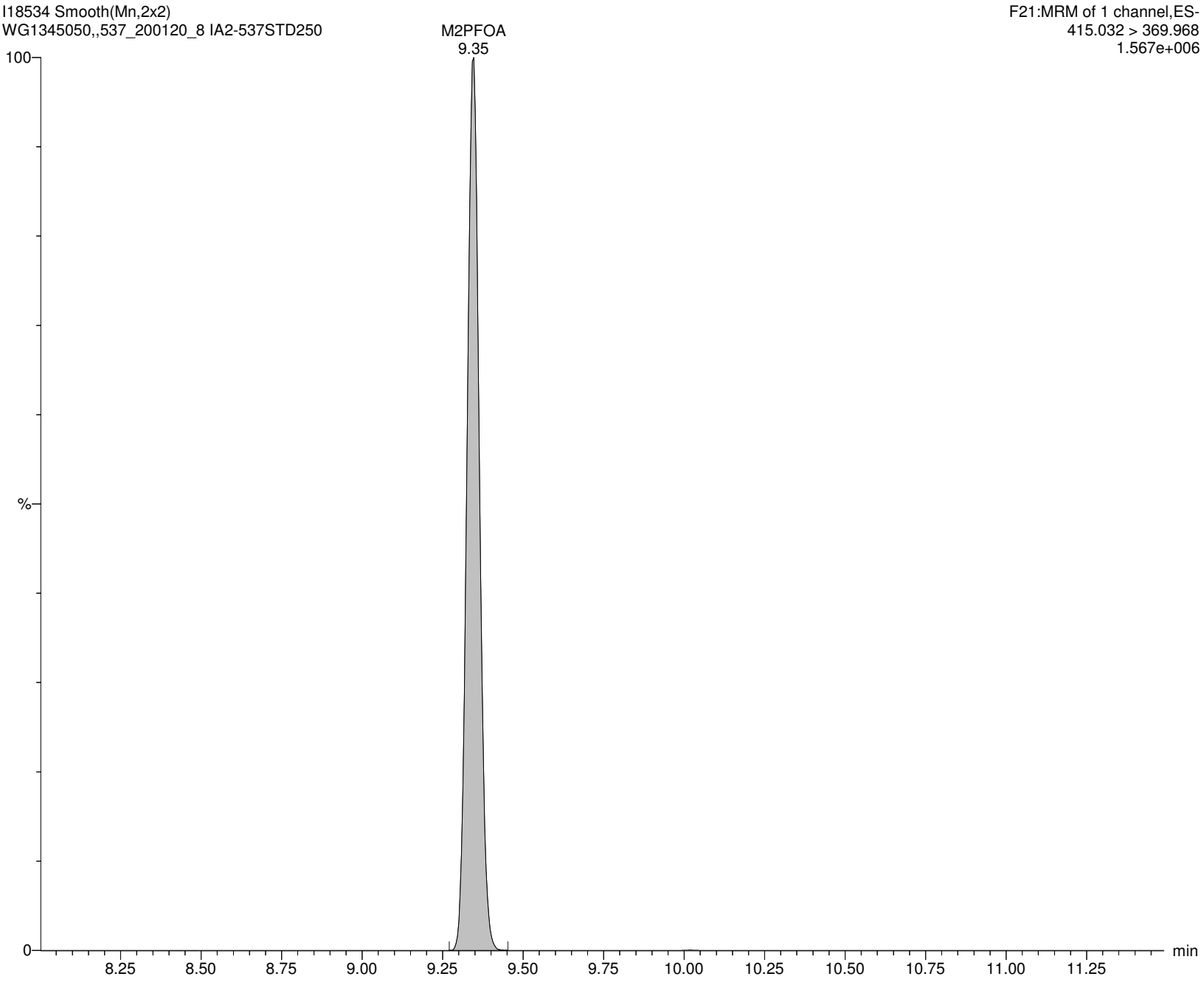

all concentration units in (ng/mL)

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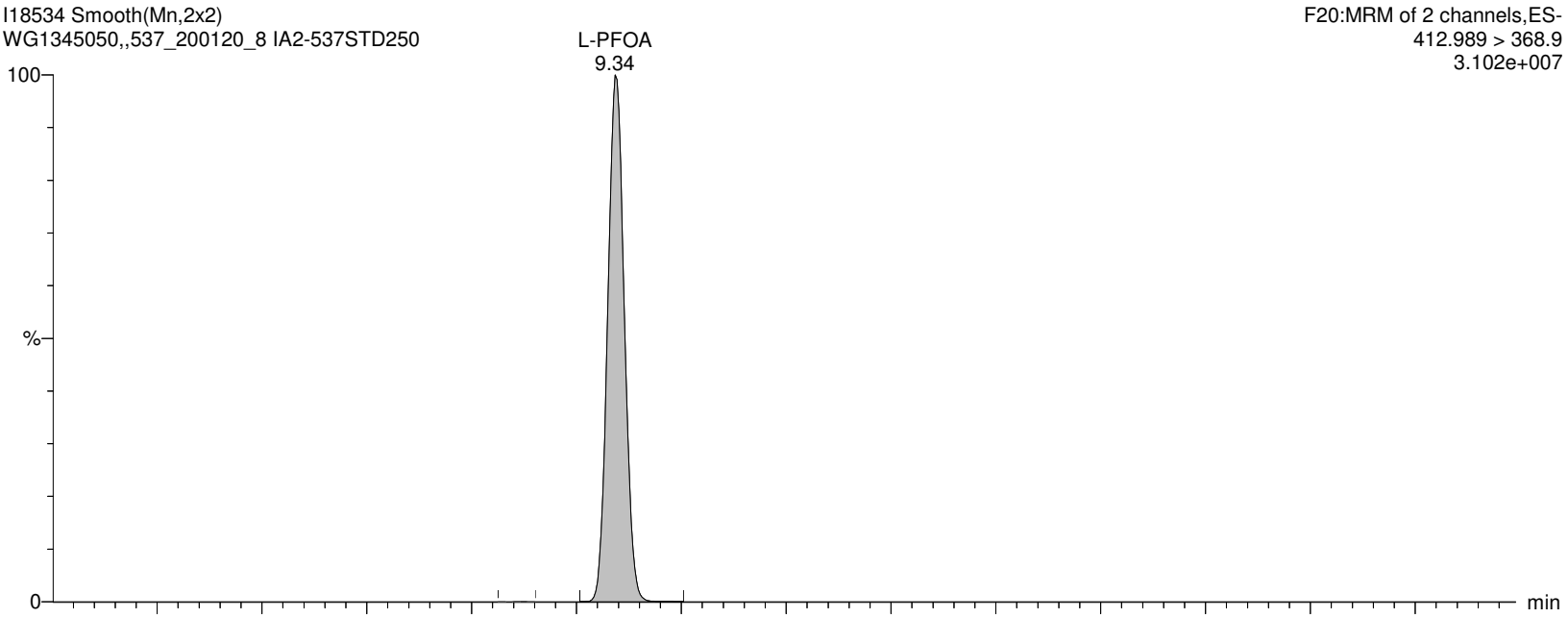

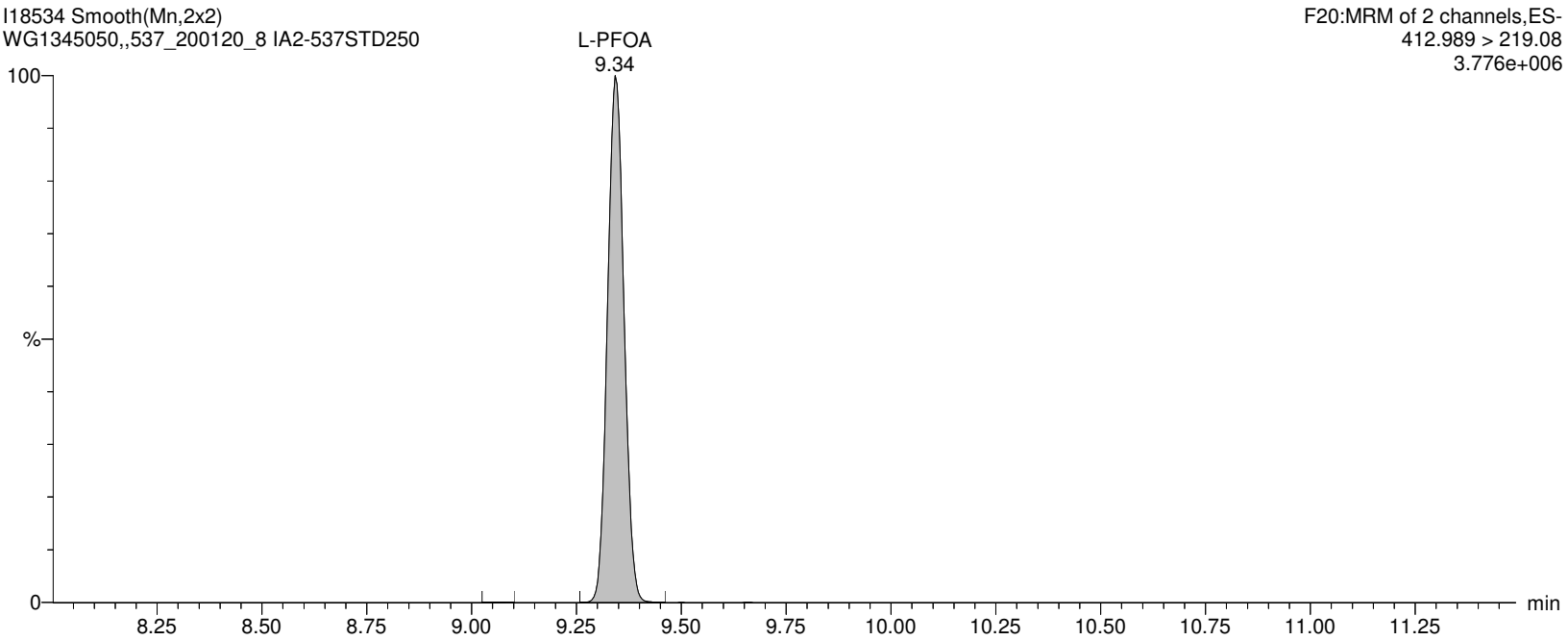

all concentration units in (ng/mL)

Alpha Analytical Inc.
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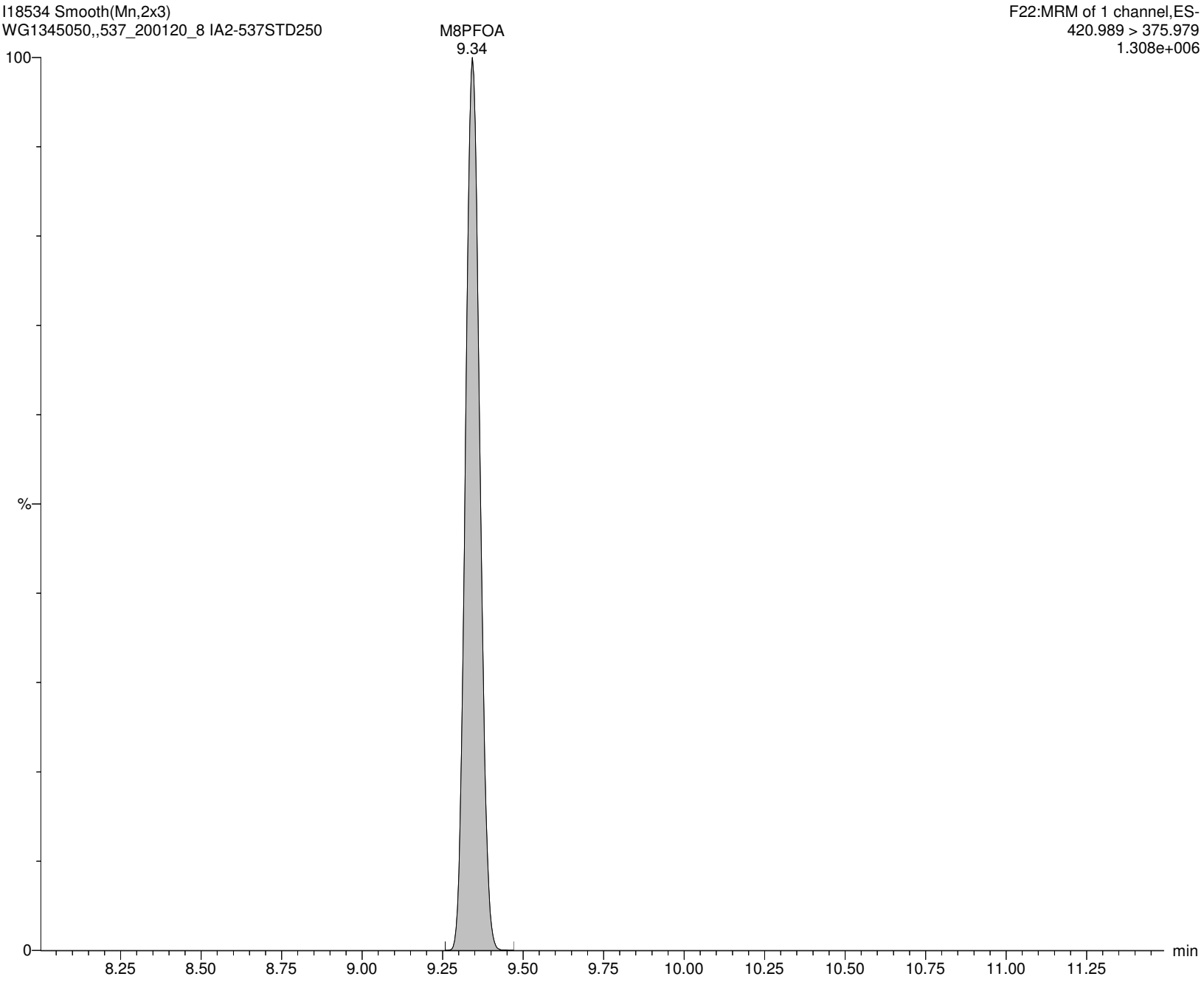

all concentration units in (ng/mL)

Alpha Analytical Inc.
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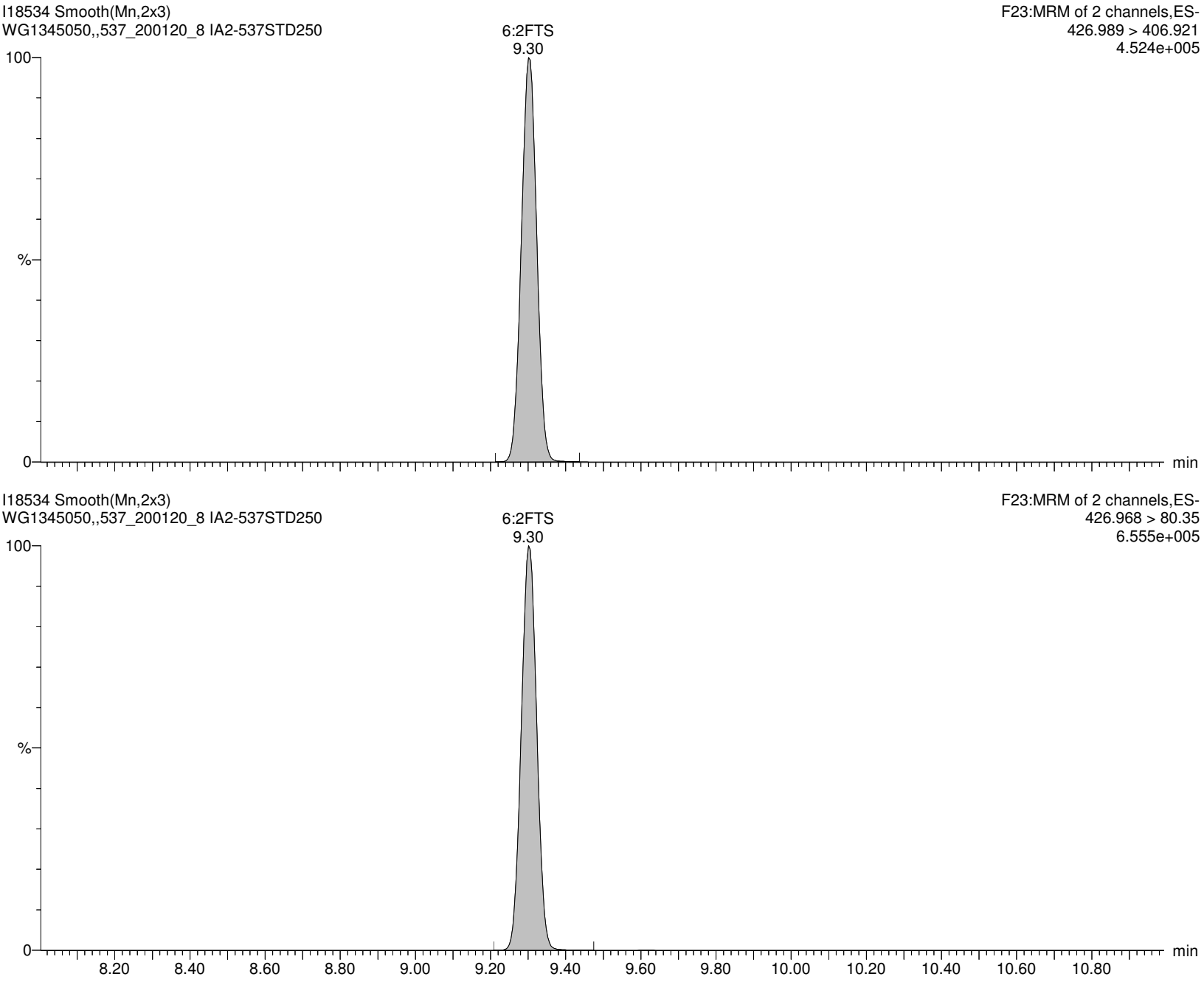

all concentration units in (ng/mL)

Alpha Analytical Inc.
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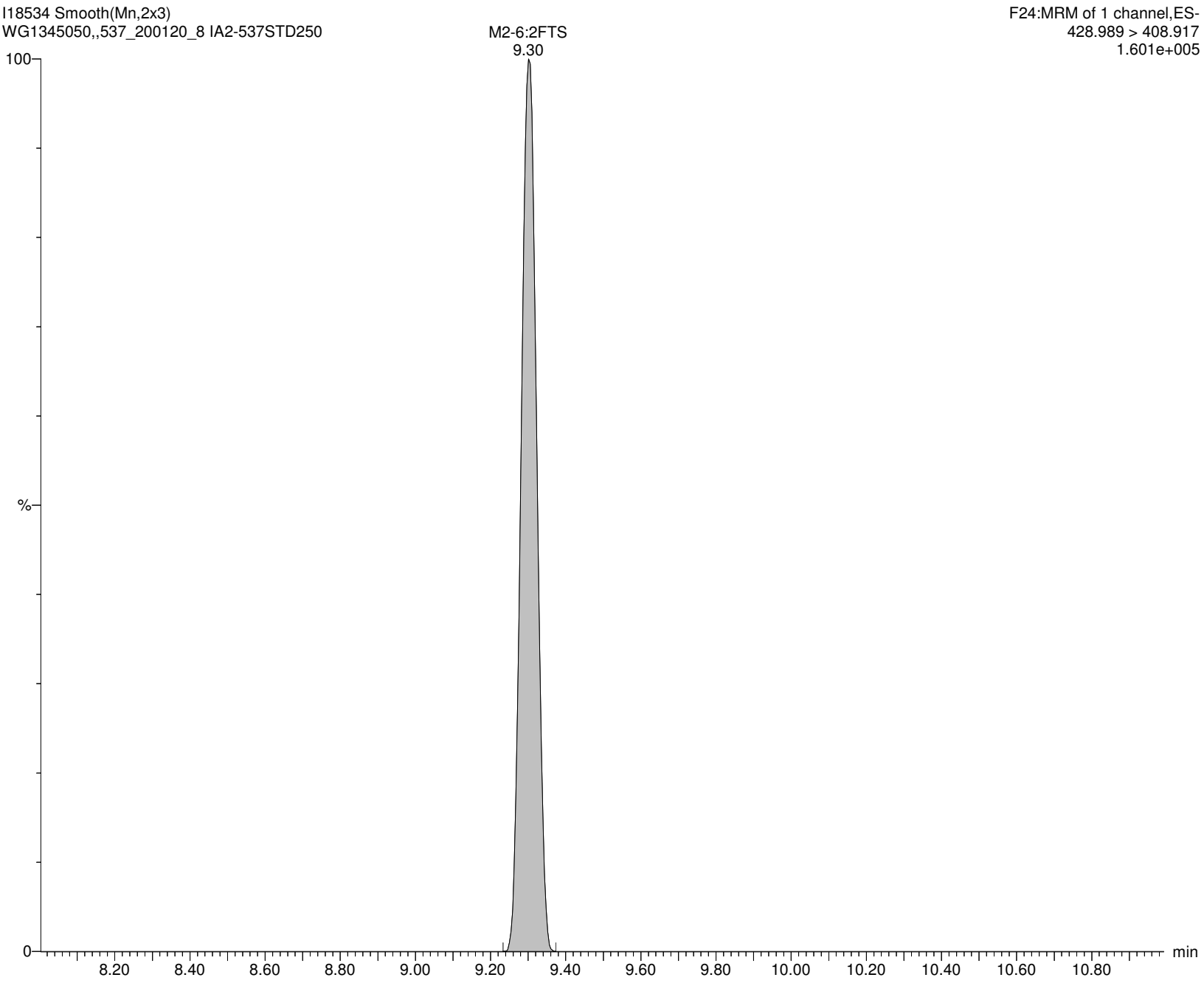

all concentration units in (ng/mL)

Alpha Analytical Inc.
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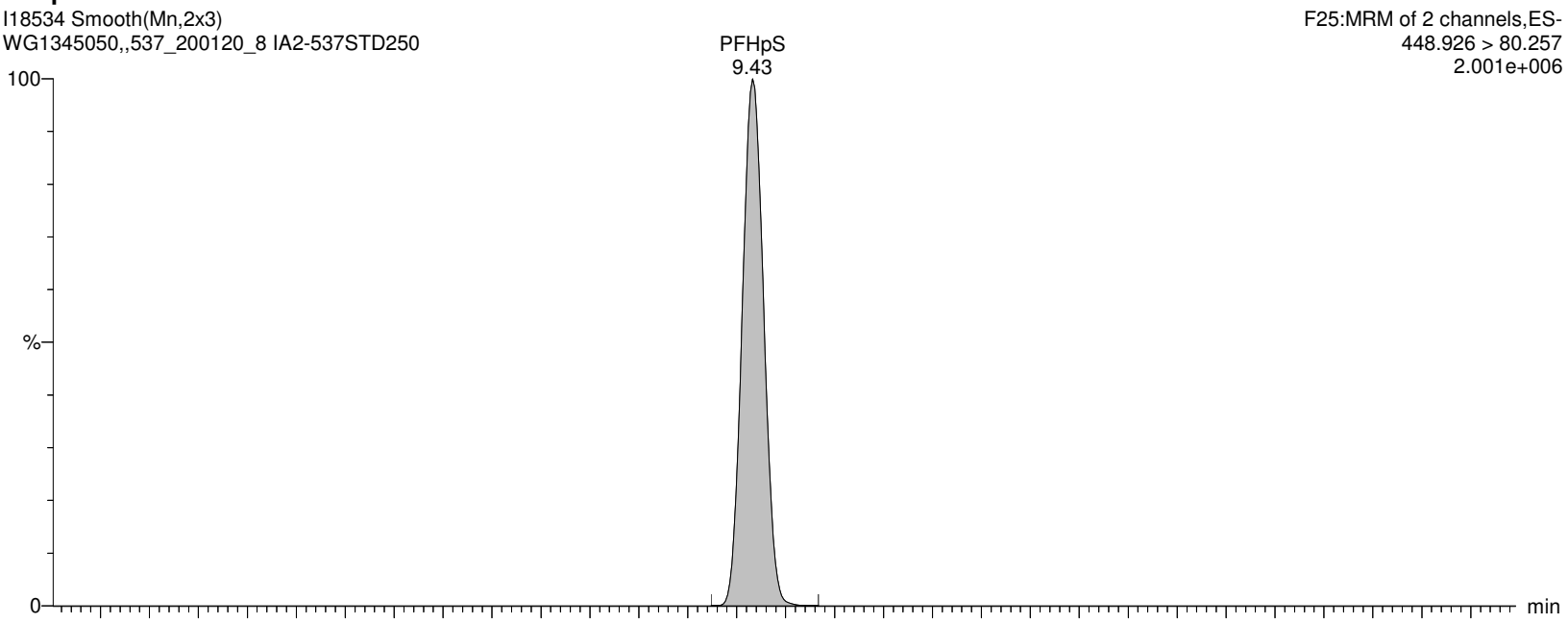

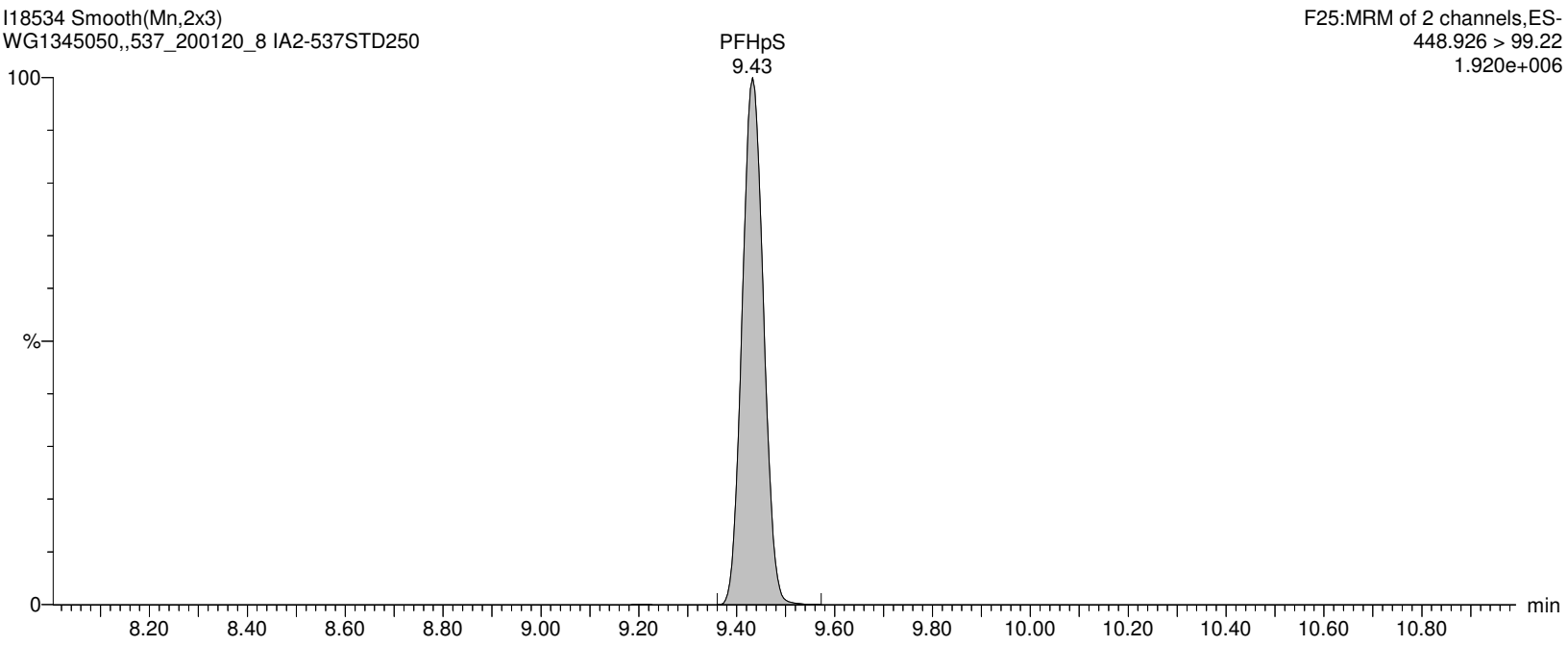

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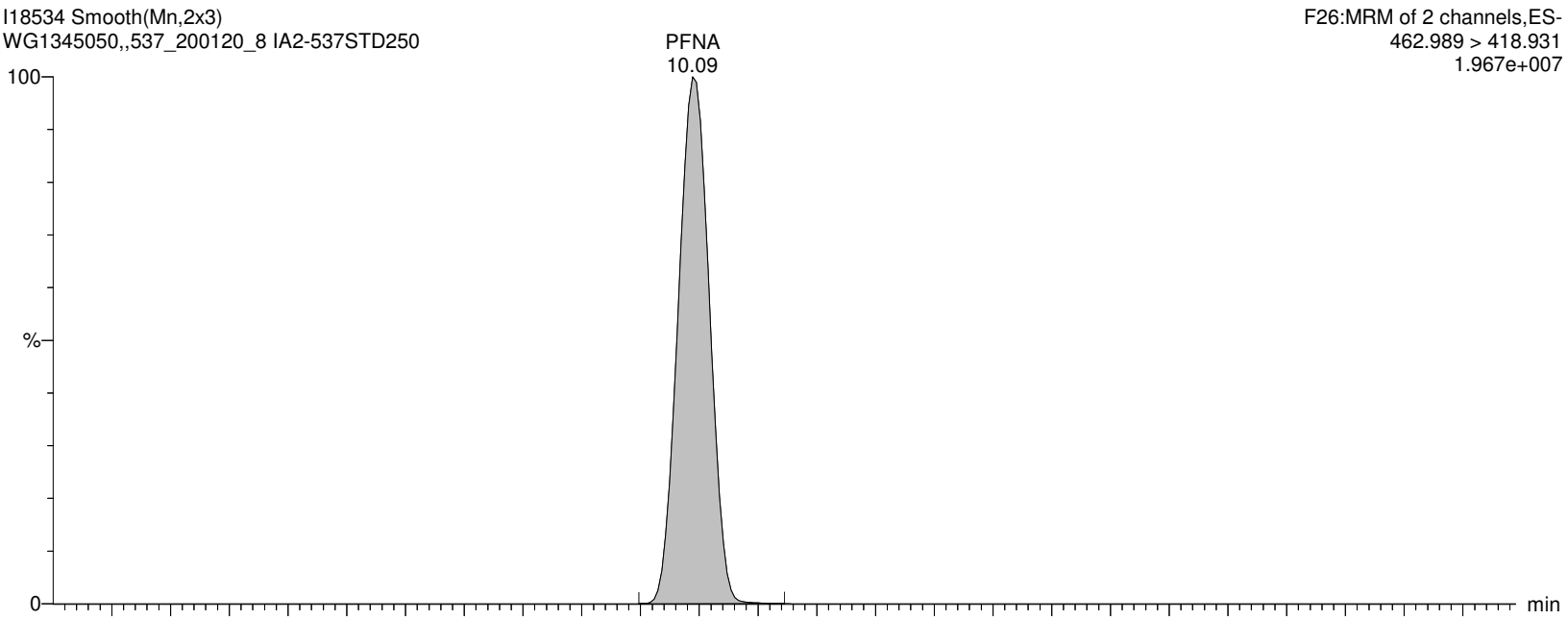

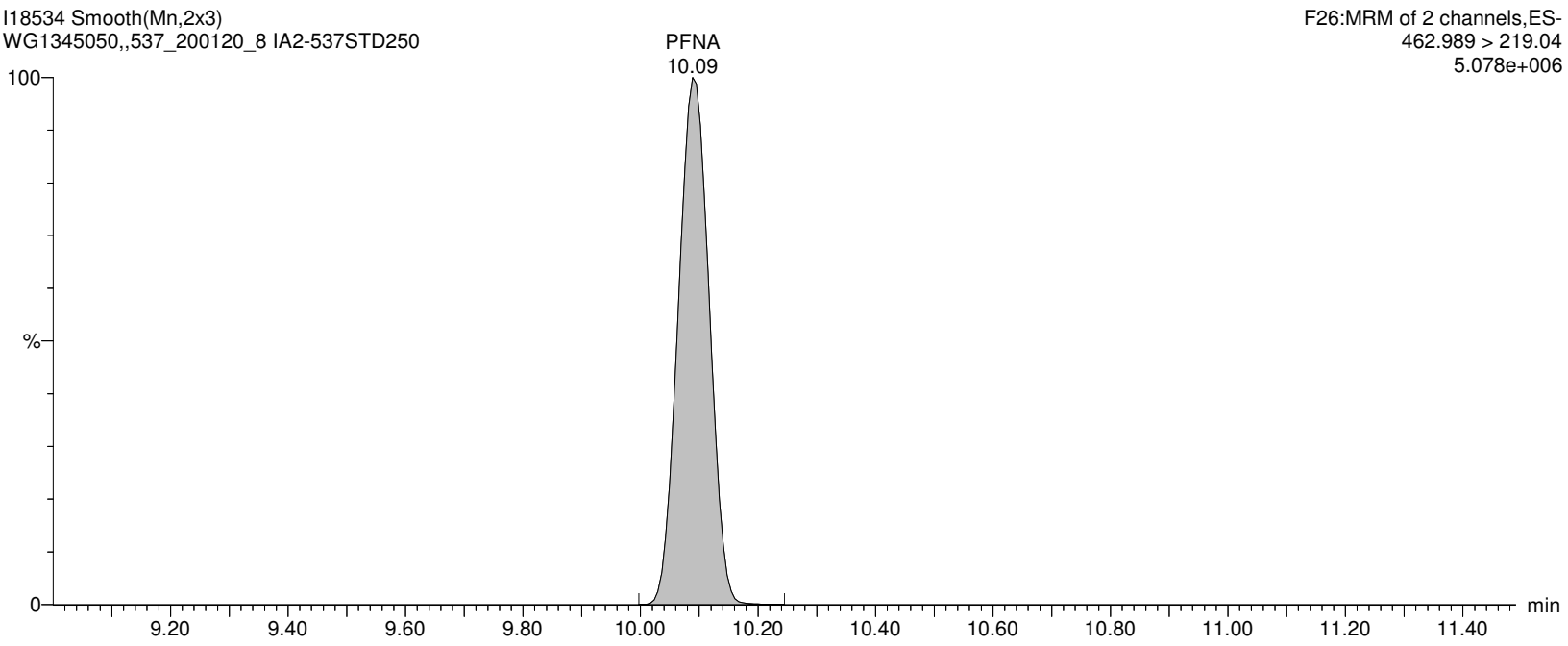

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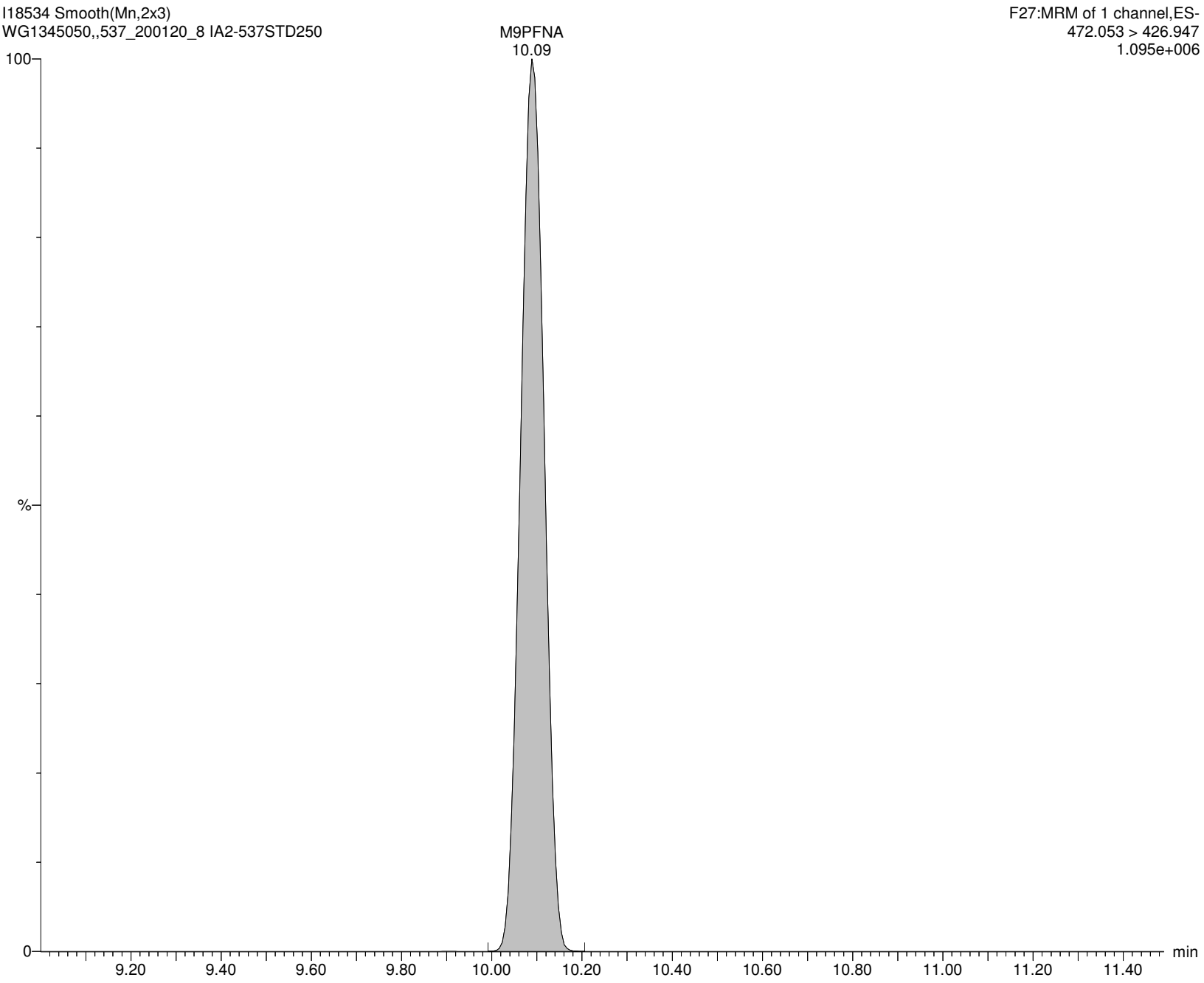

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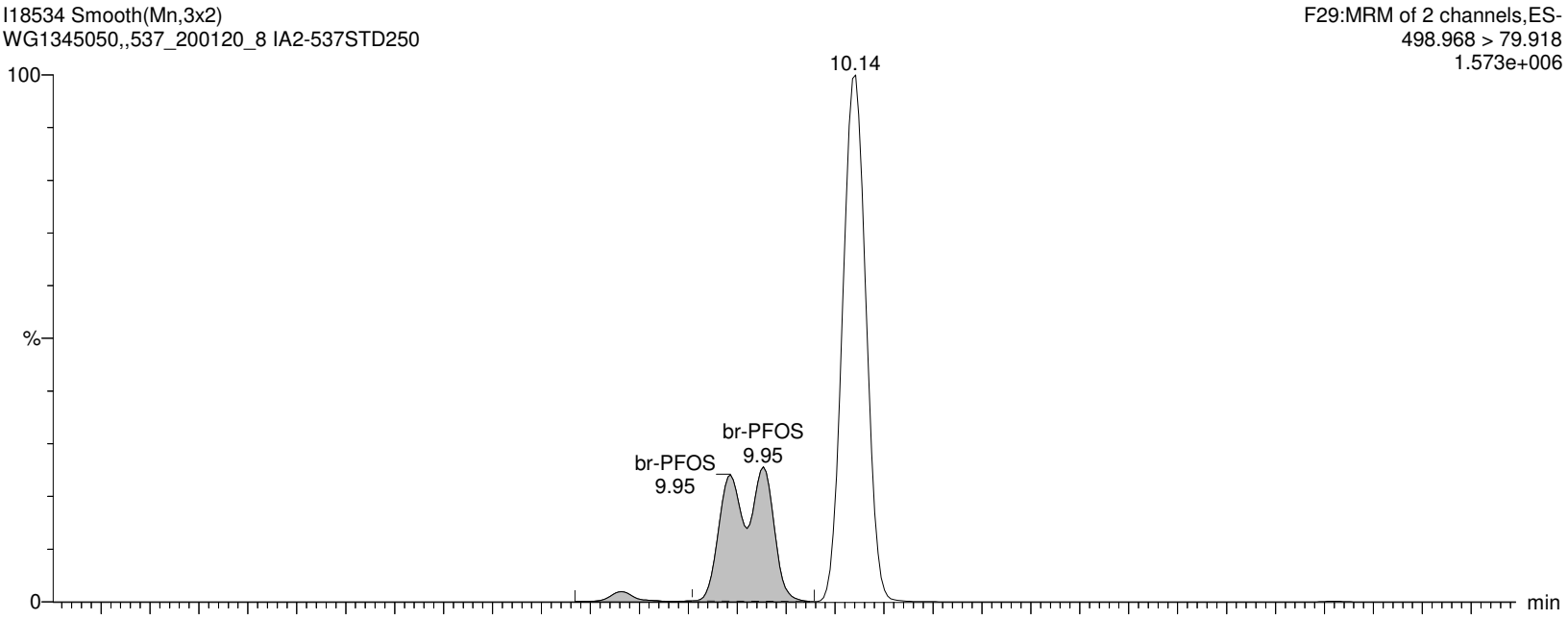

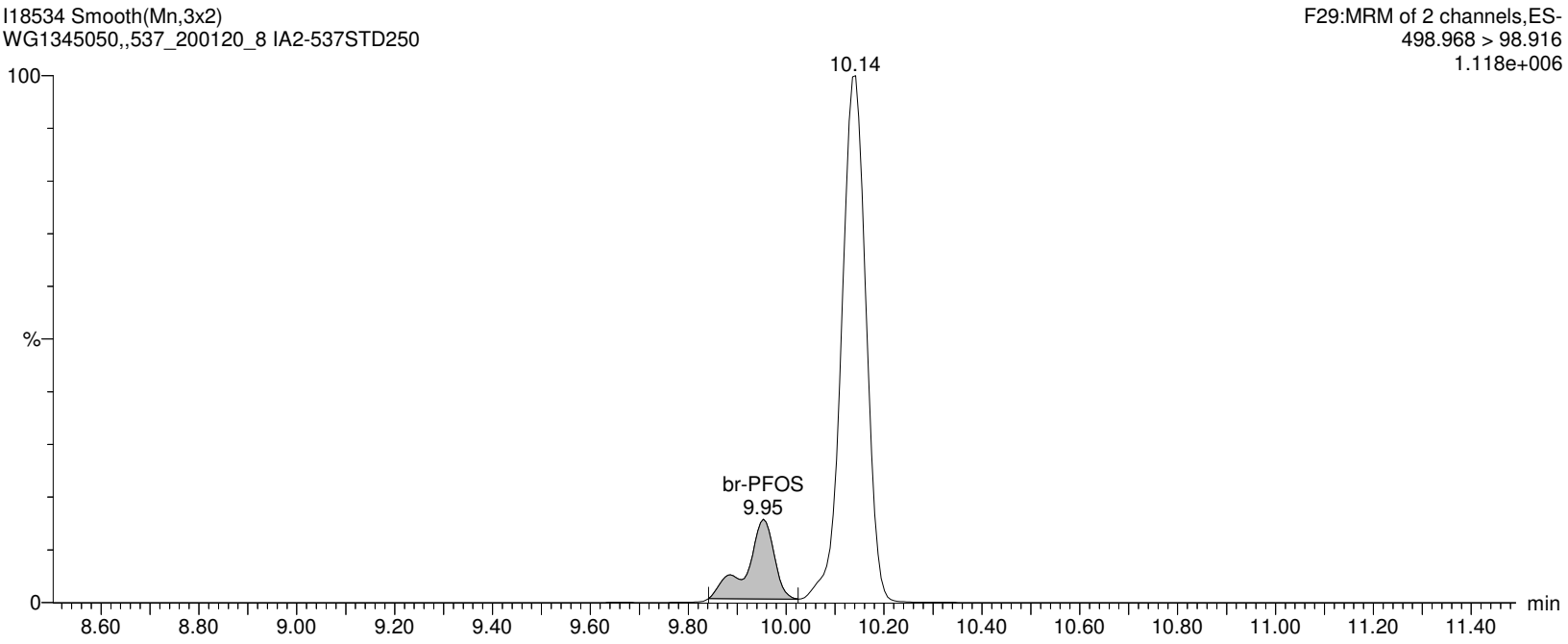

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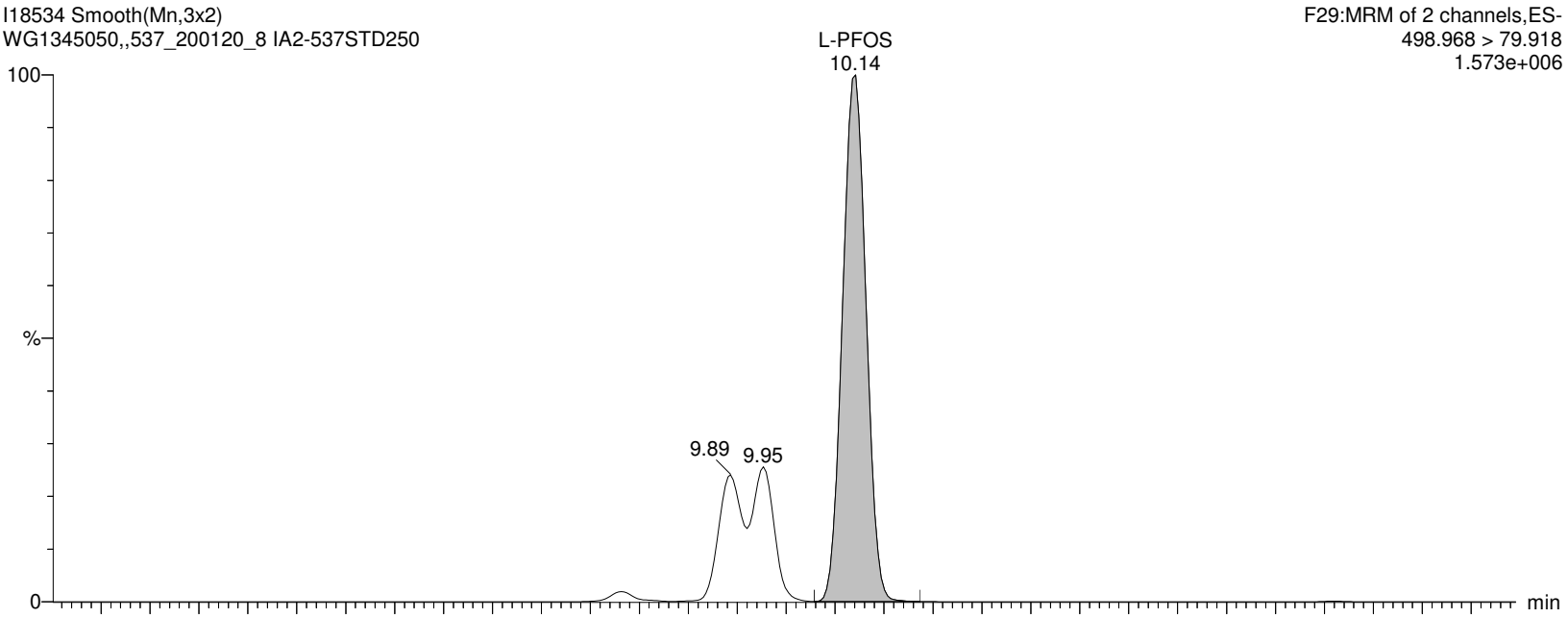
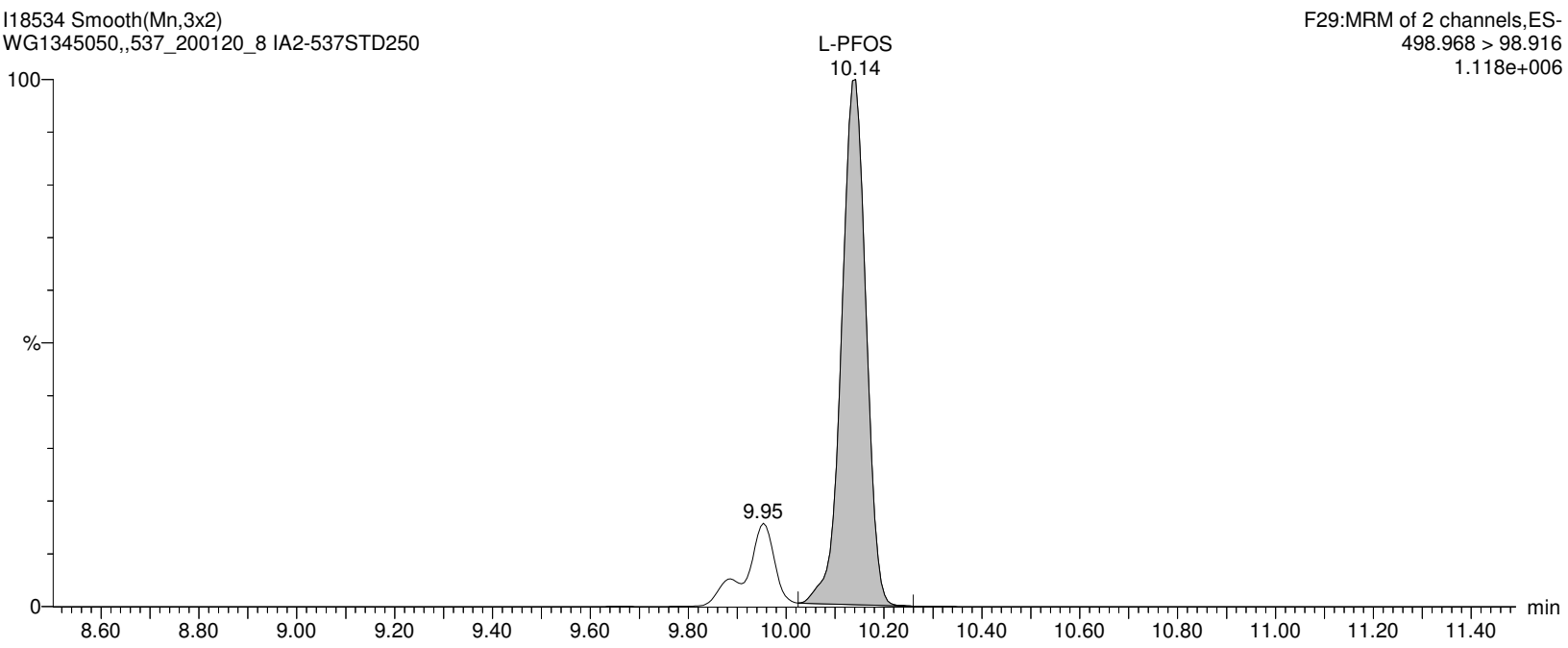
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:55 Eastern Standard Time

Name: I18534
ID: IA2-537STD250
Date: 27-Feb-2020
Time: 15:25:04
Description: WG1345050,,537_200120_8
User: LCMS01:SG
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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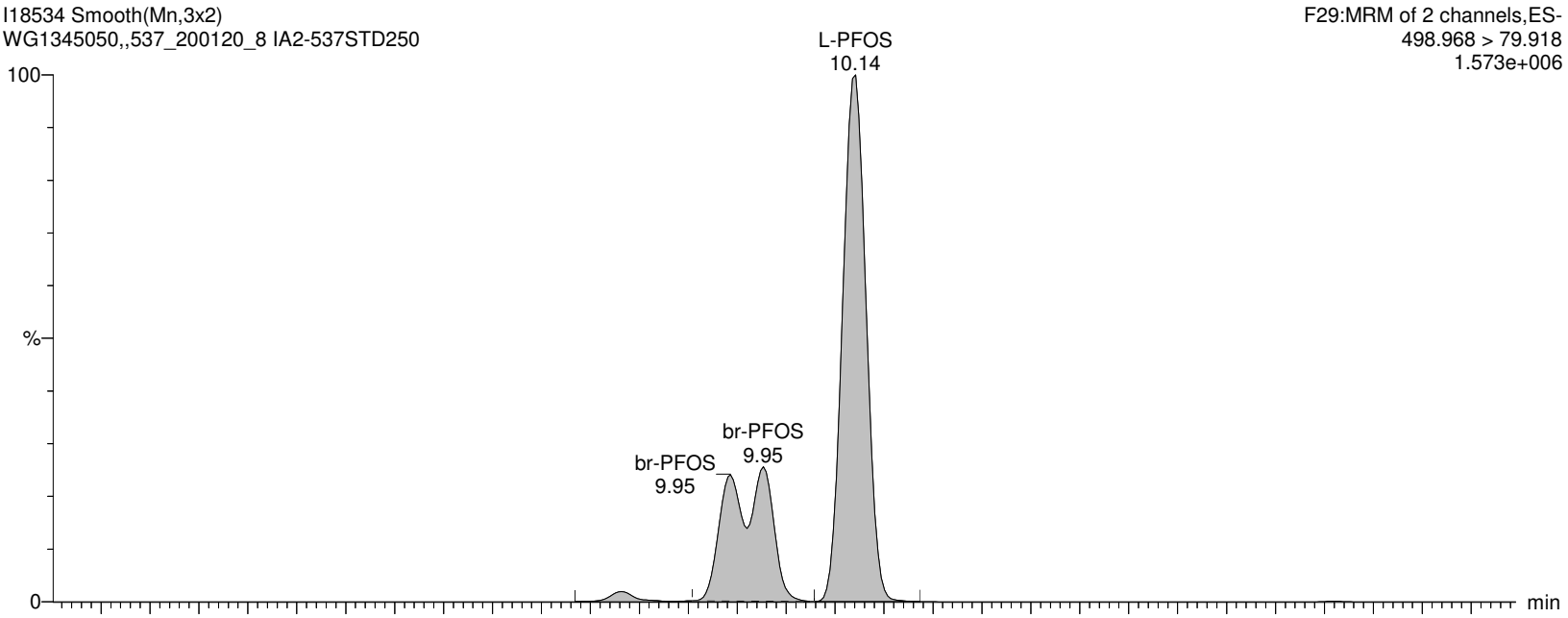

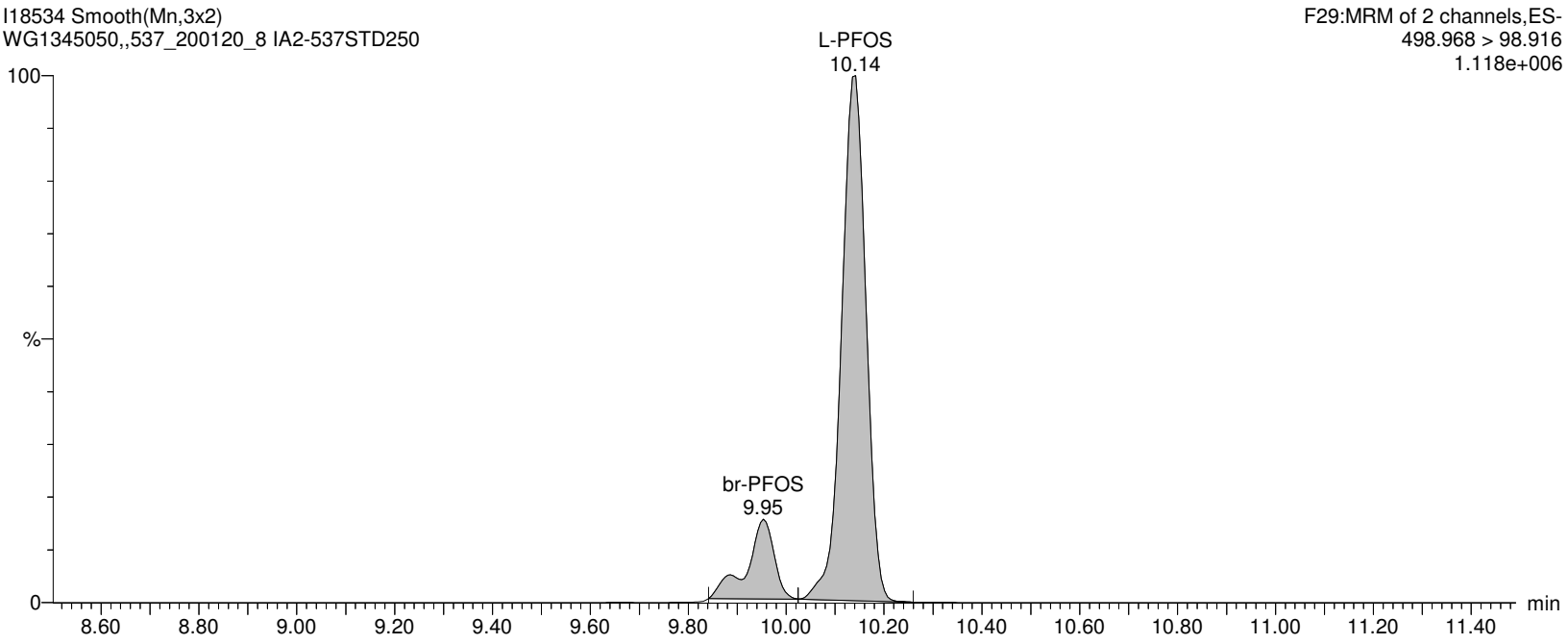

all concentration units in (ng/mL)

Alpha Analytical Inc.
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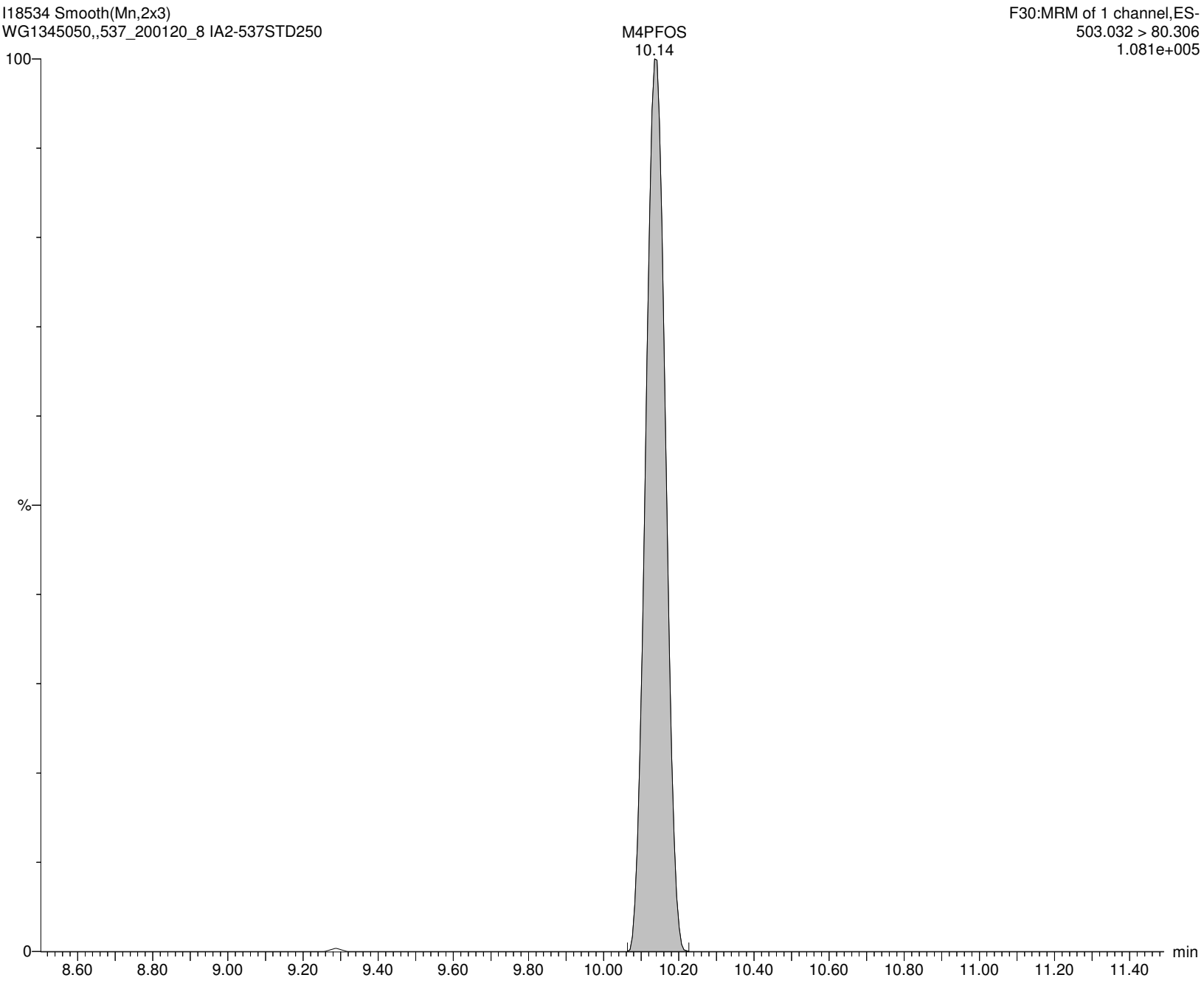

all concentration units in (ng/mL)

Alpha Analytical Inc.
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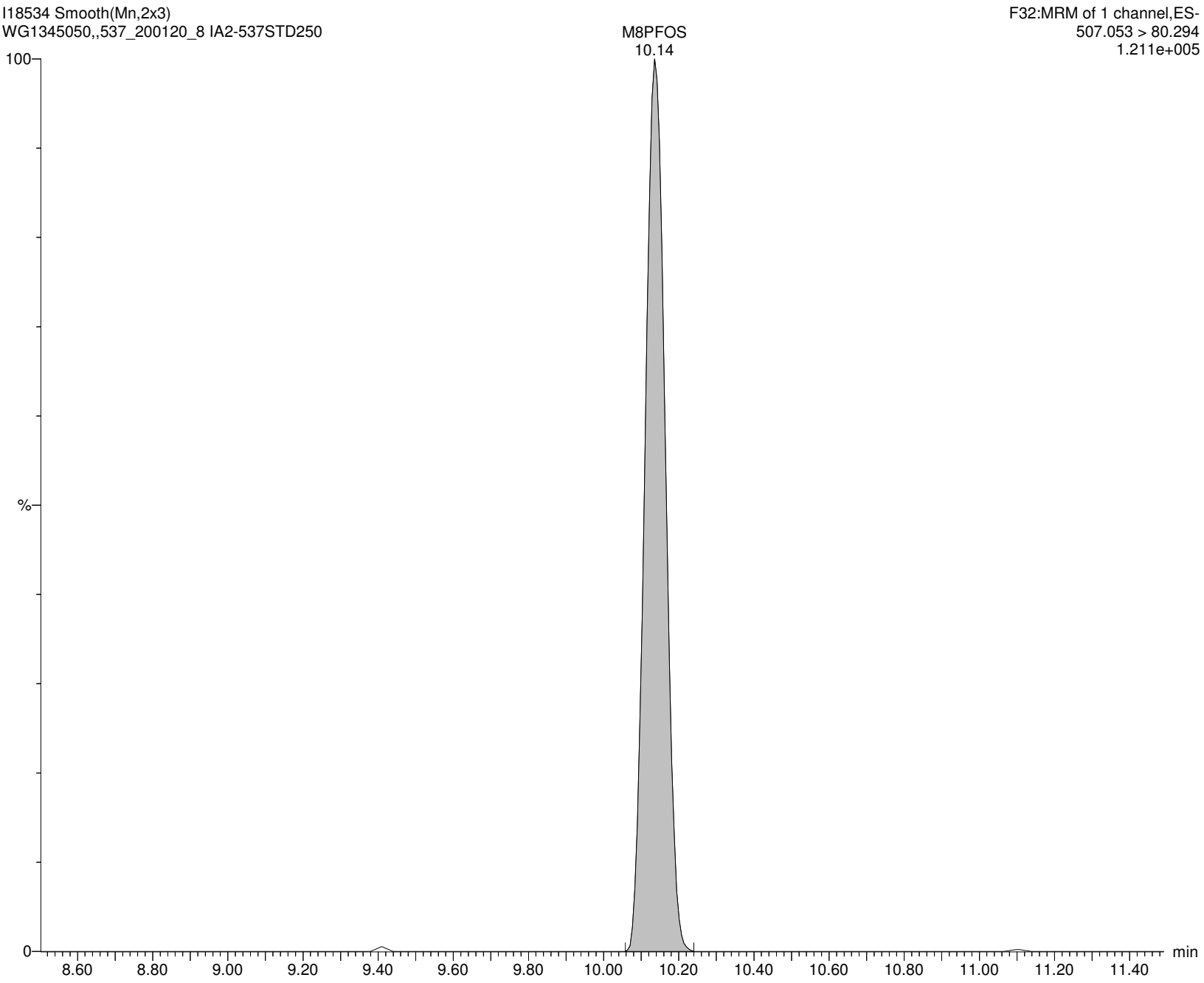

all concentration units in (ng/mL)

Alpha Analytical Inc.
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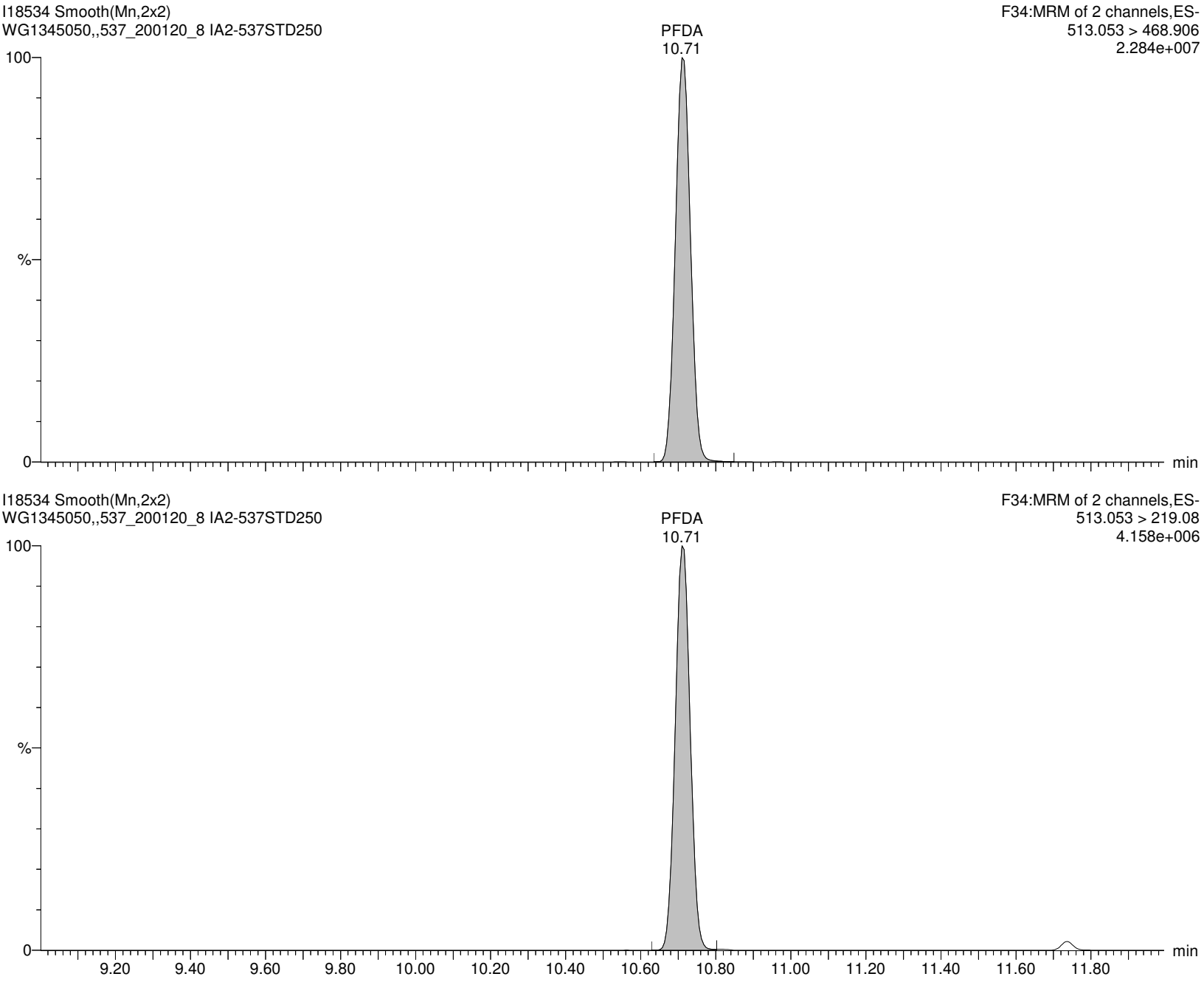

all concentration units in (ng/mL)

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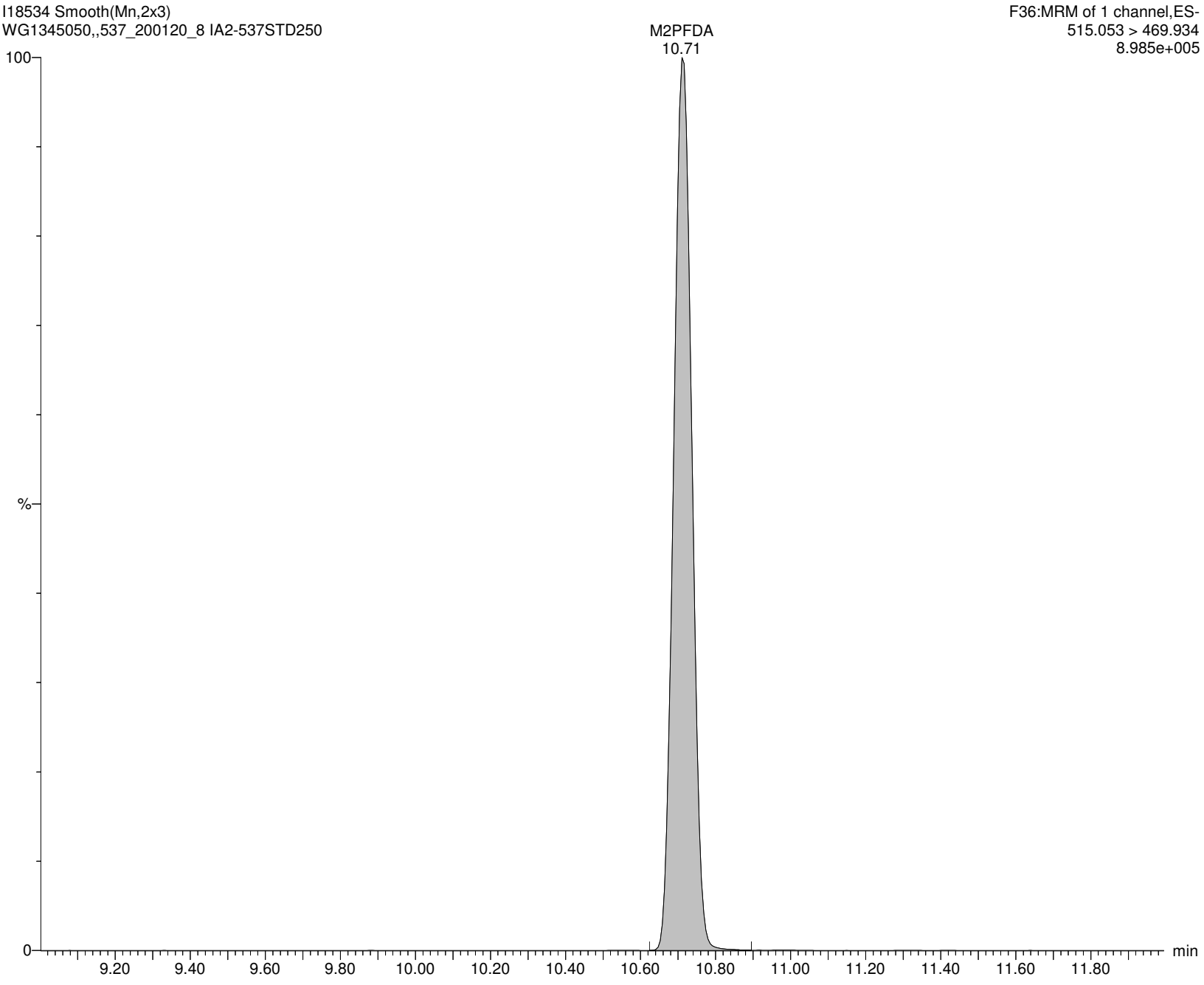

all concentration units in (ng/mL)

Alpha Analytical Inc.
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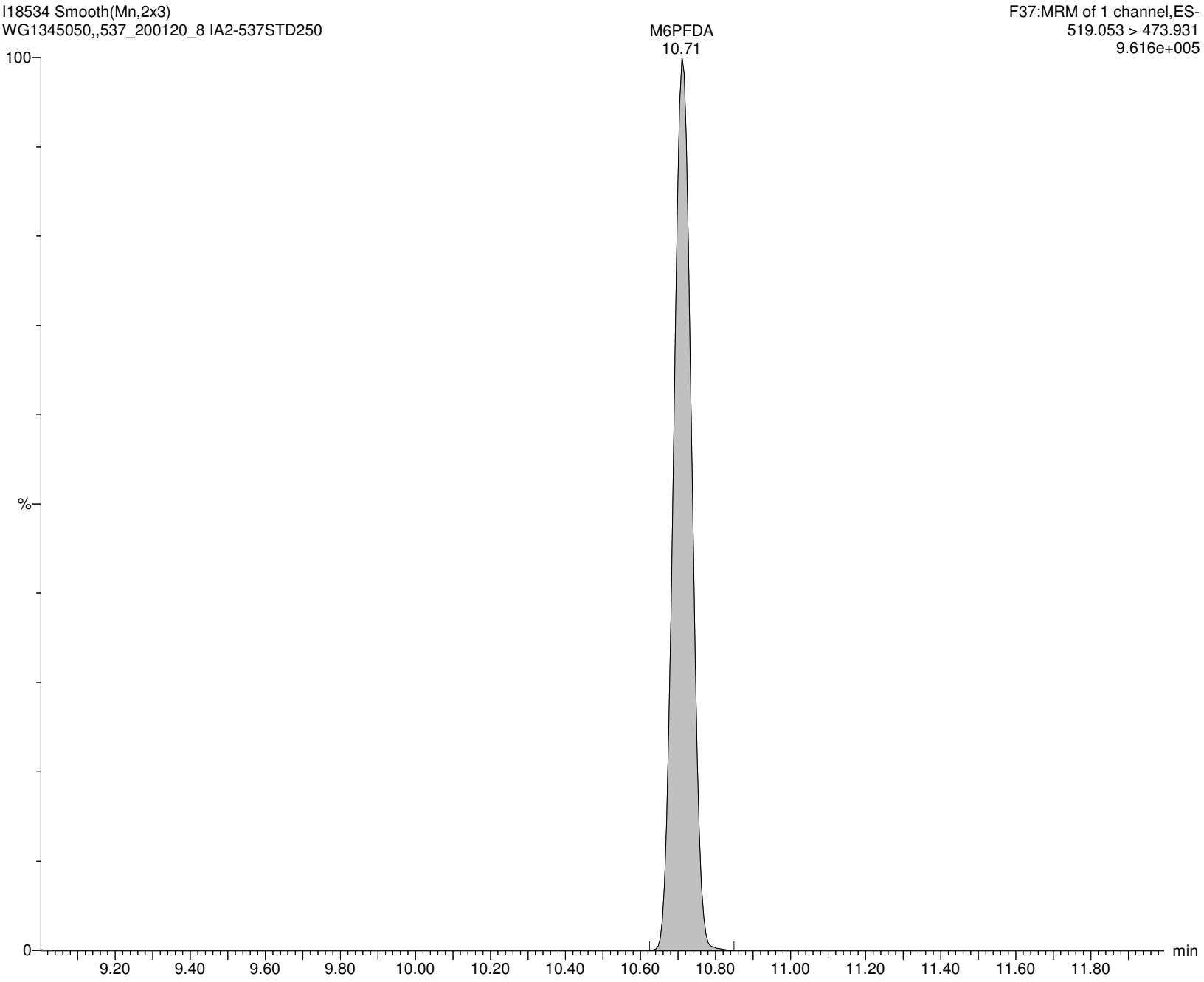

all concentration units in (ng/mL)

Alpha Analytical Inc.
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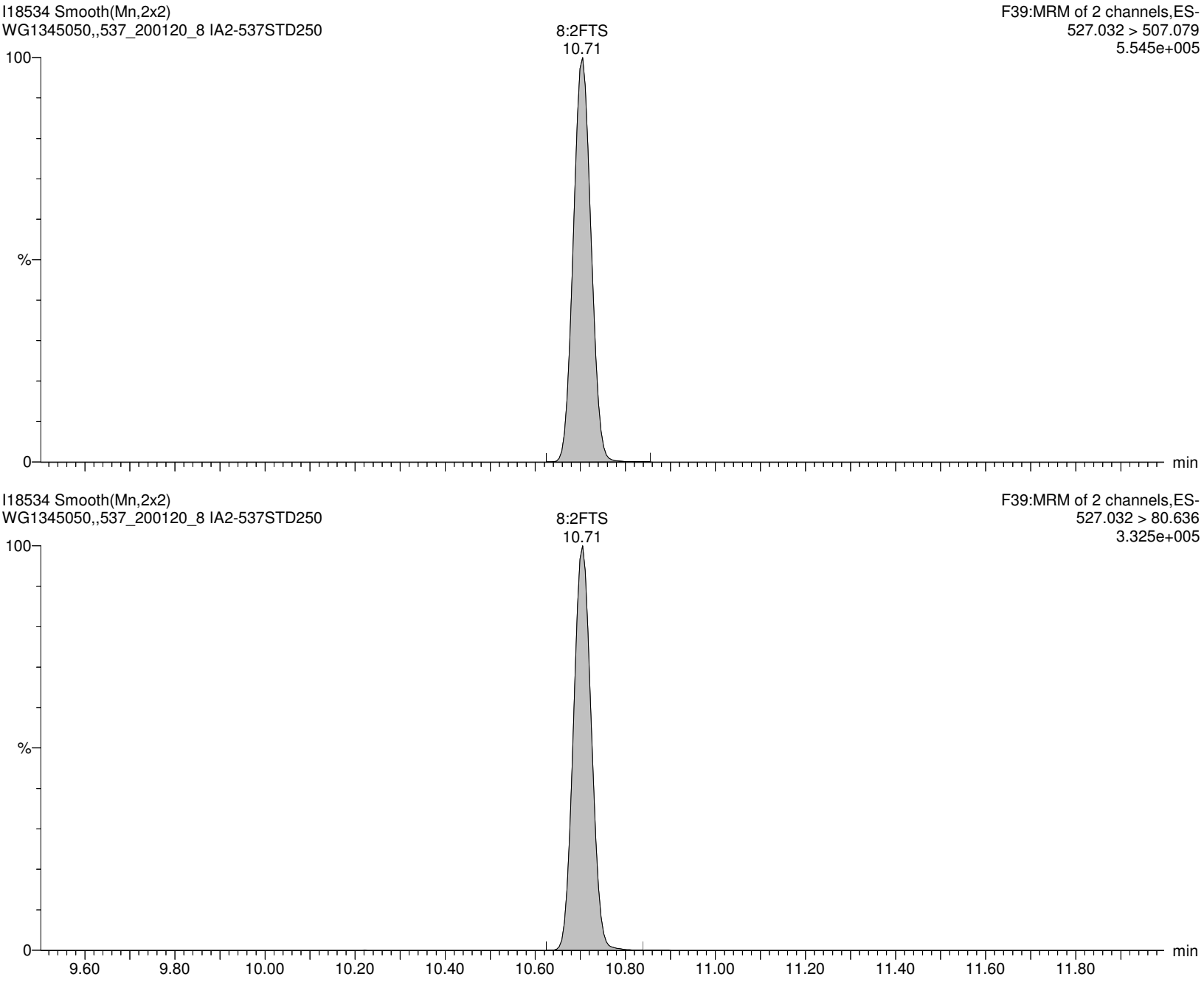
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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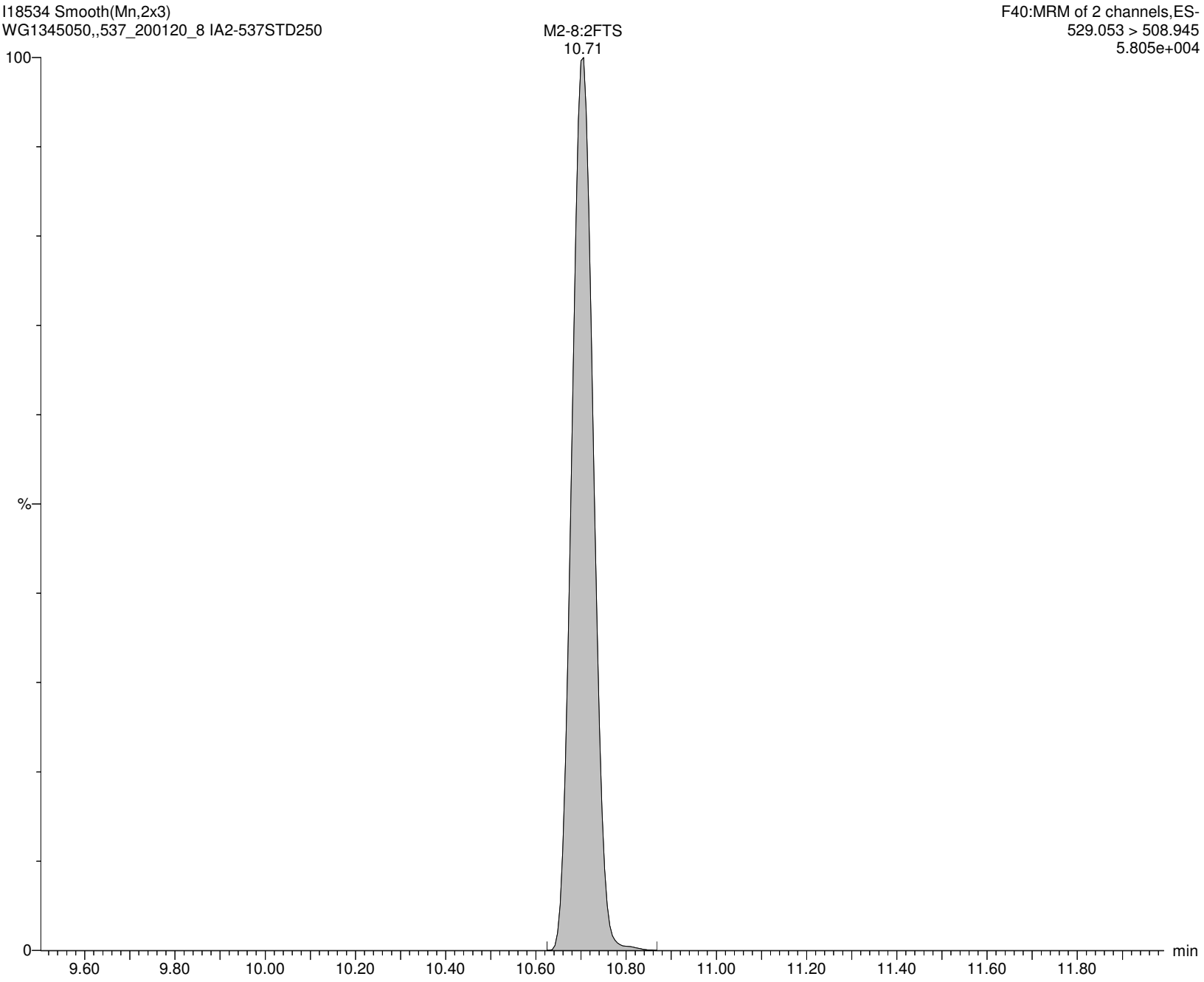

all concentration units in (ng/mL)

Alpha Analytical Inc.
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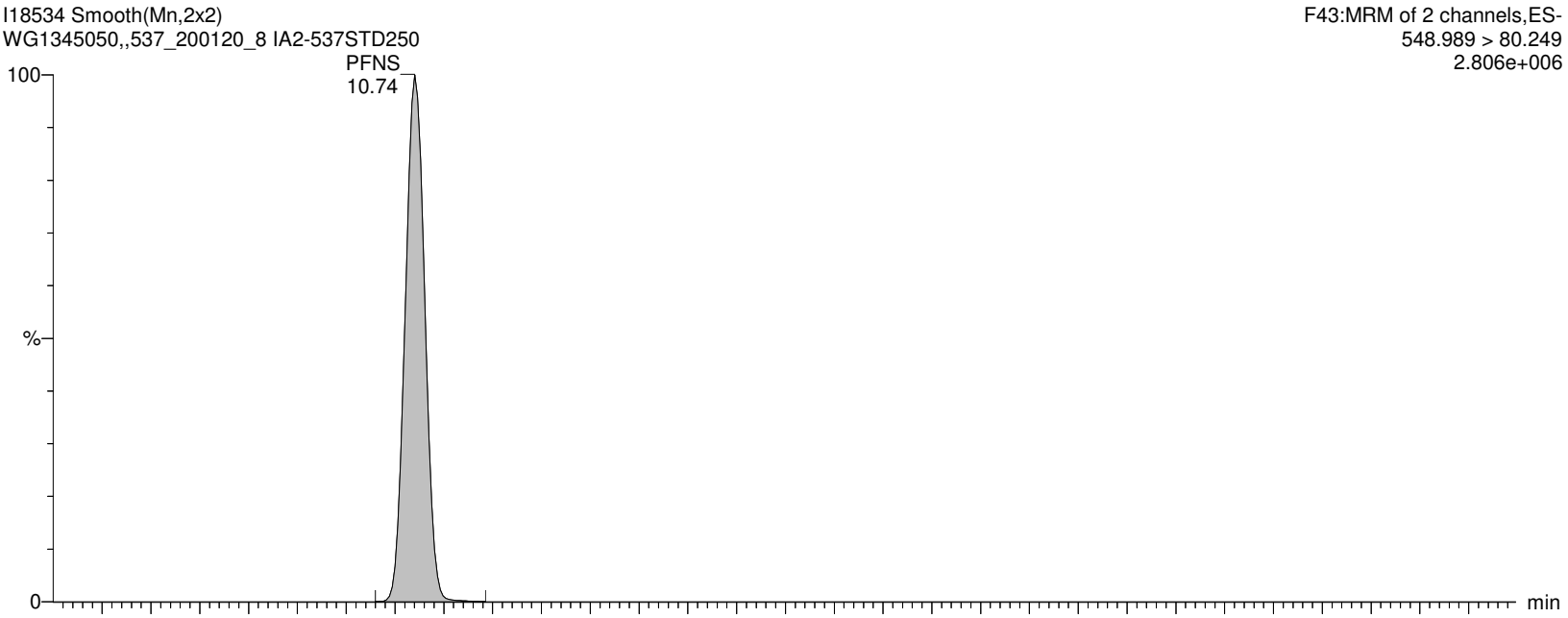

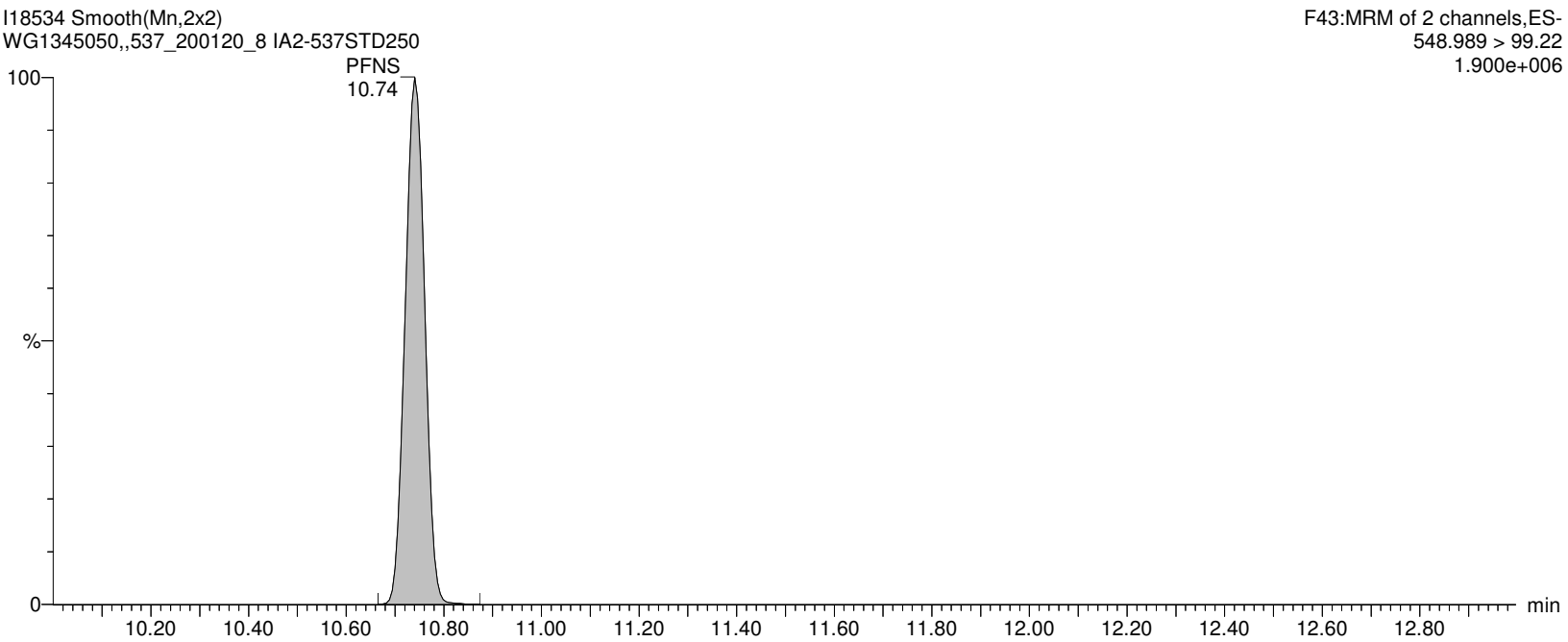

all concentration units in (ng/mL)

Alpha Analytical Inc.
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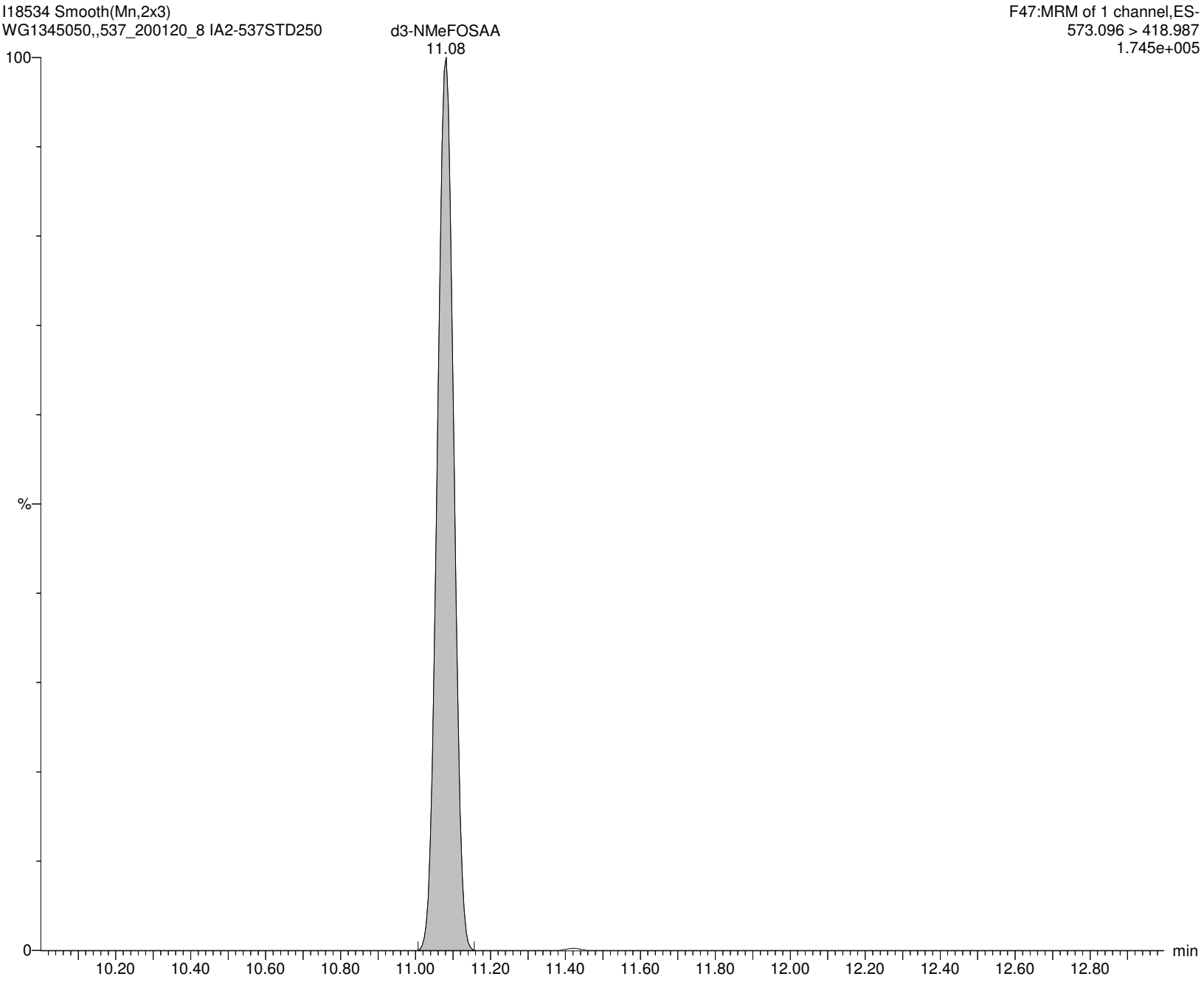

all concentration units in (ng/mL)

Alpha Analytical Inc.
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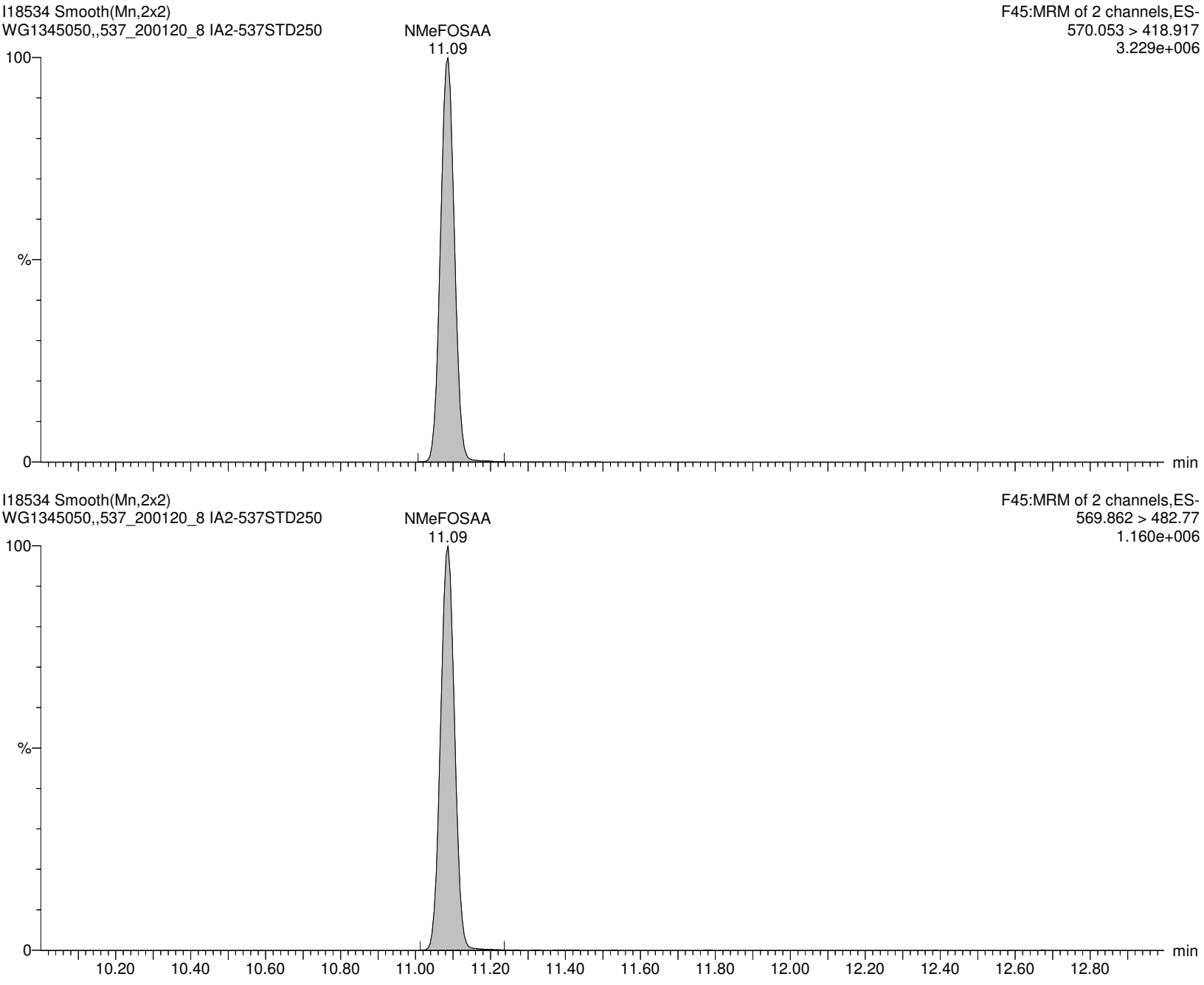

all concentration units in (ng/mL)

Alpha Analytical Inc.
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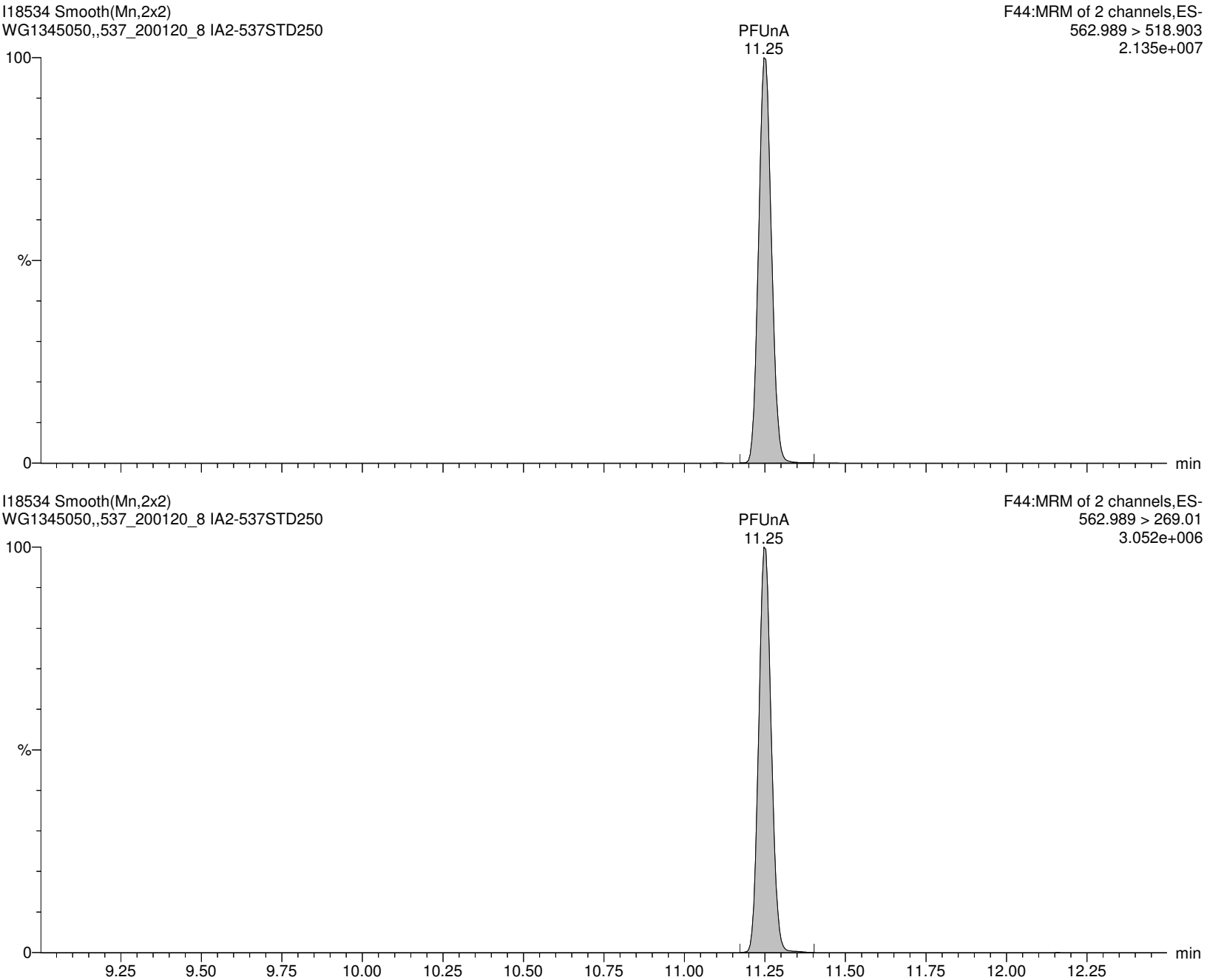

all concentration units in (ng/mL)

Alpha Analytical Inc.
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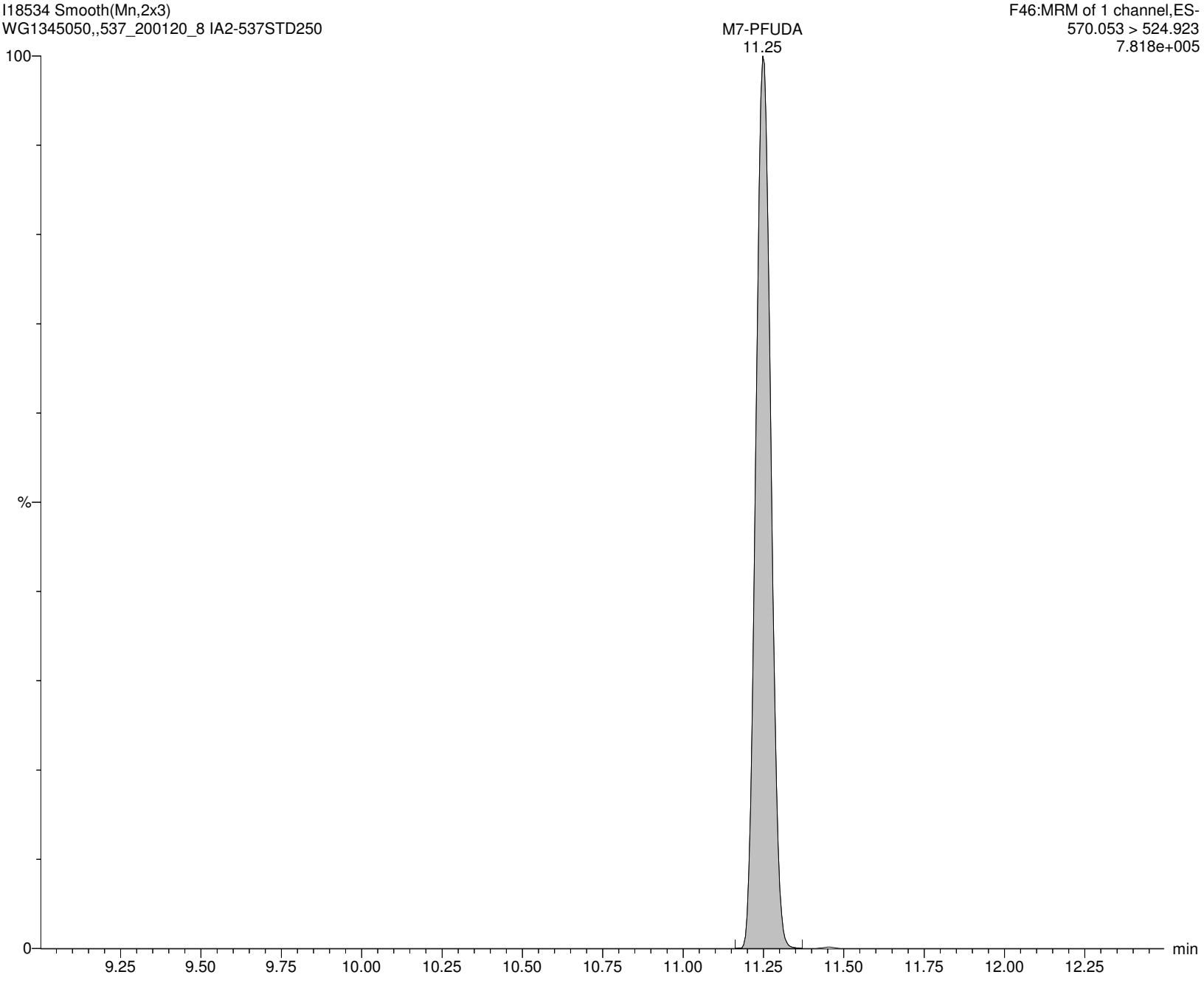
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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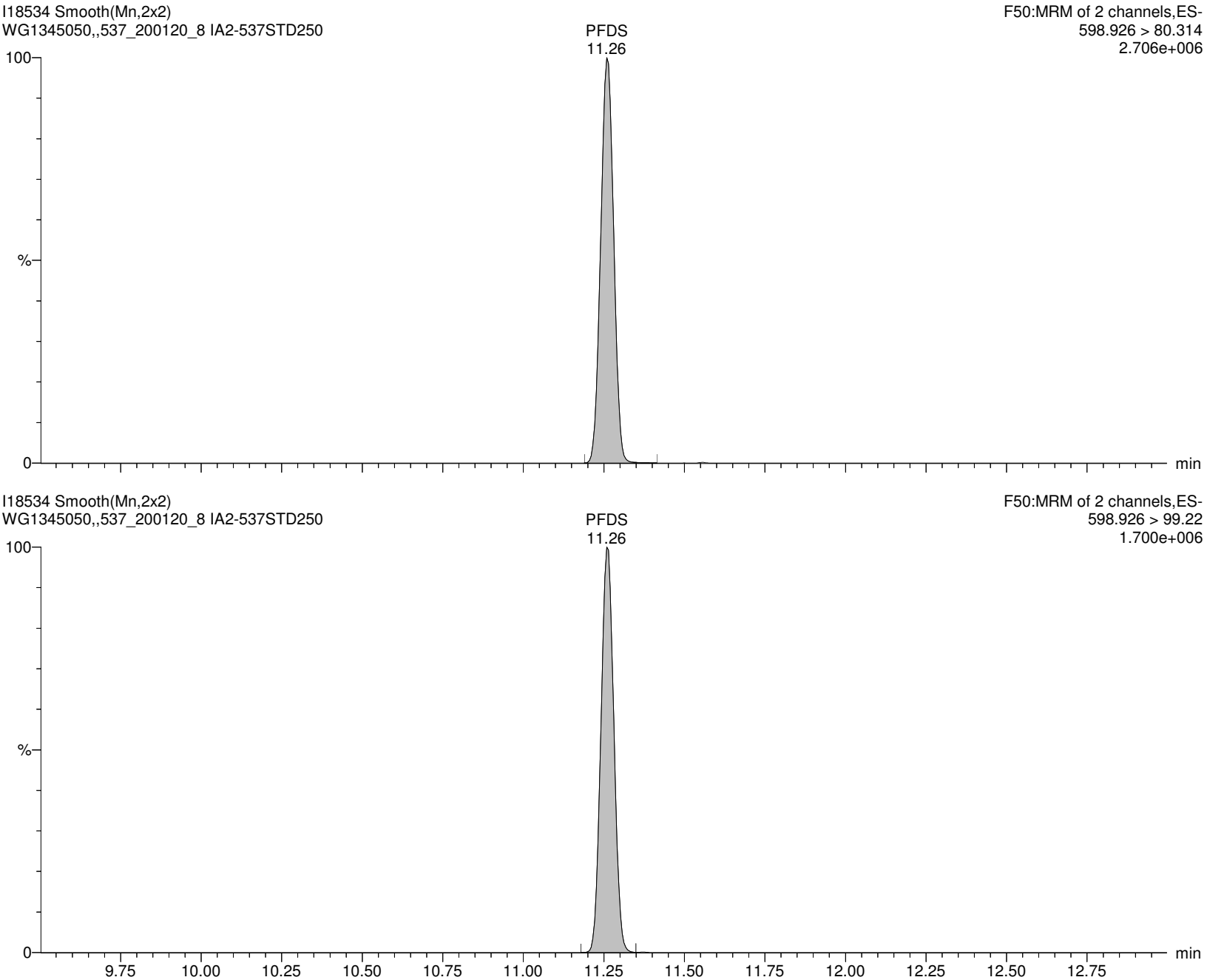
PFDS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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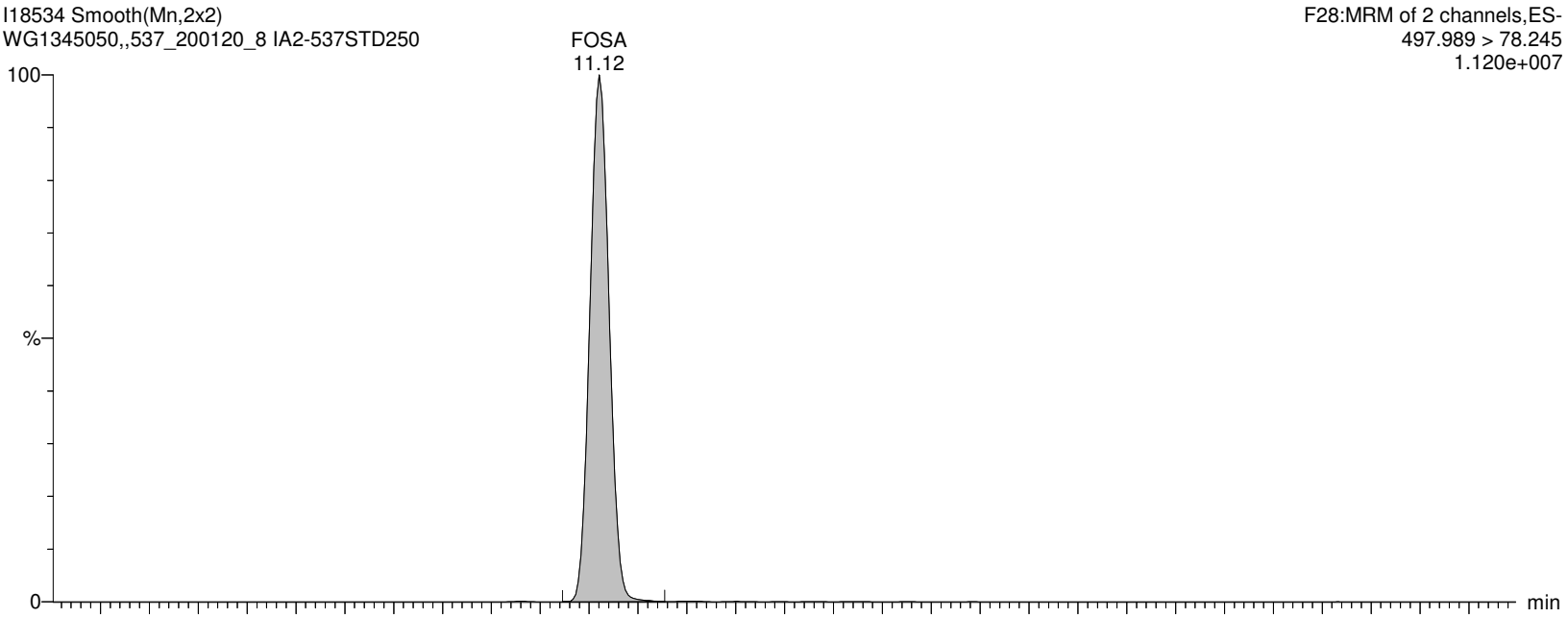
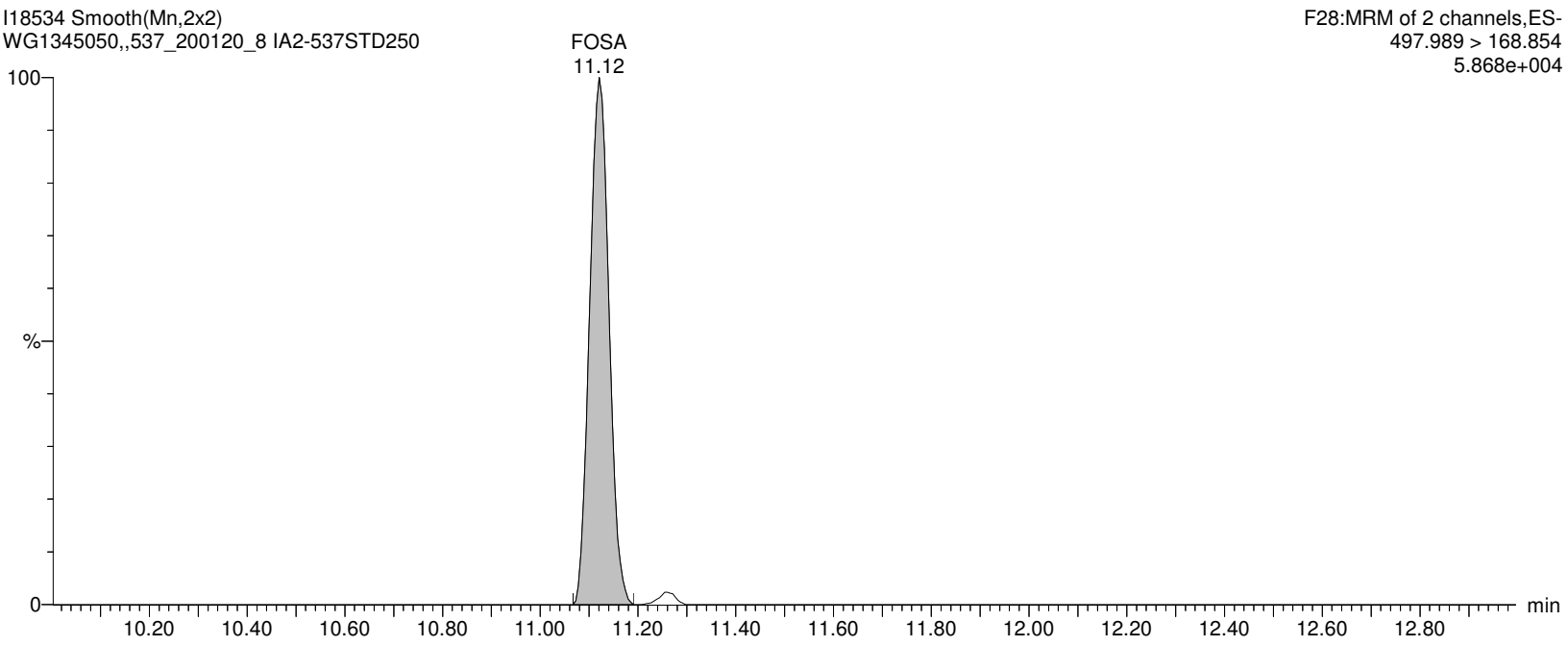
FOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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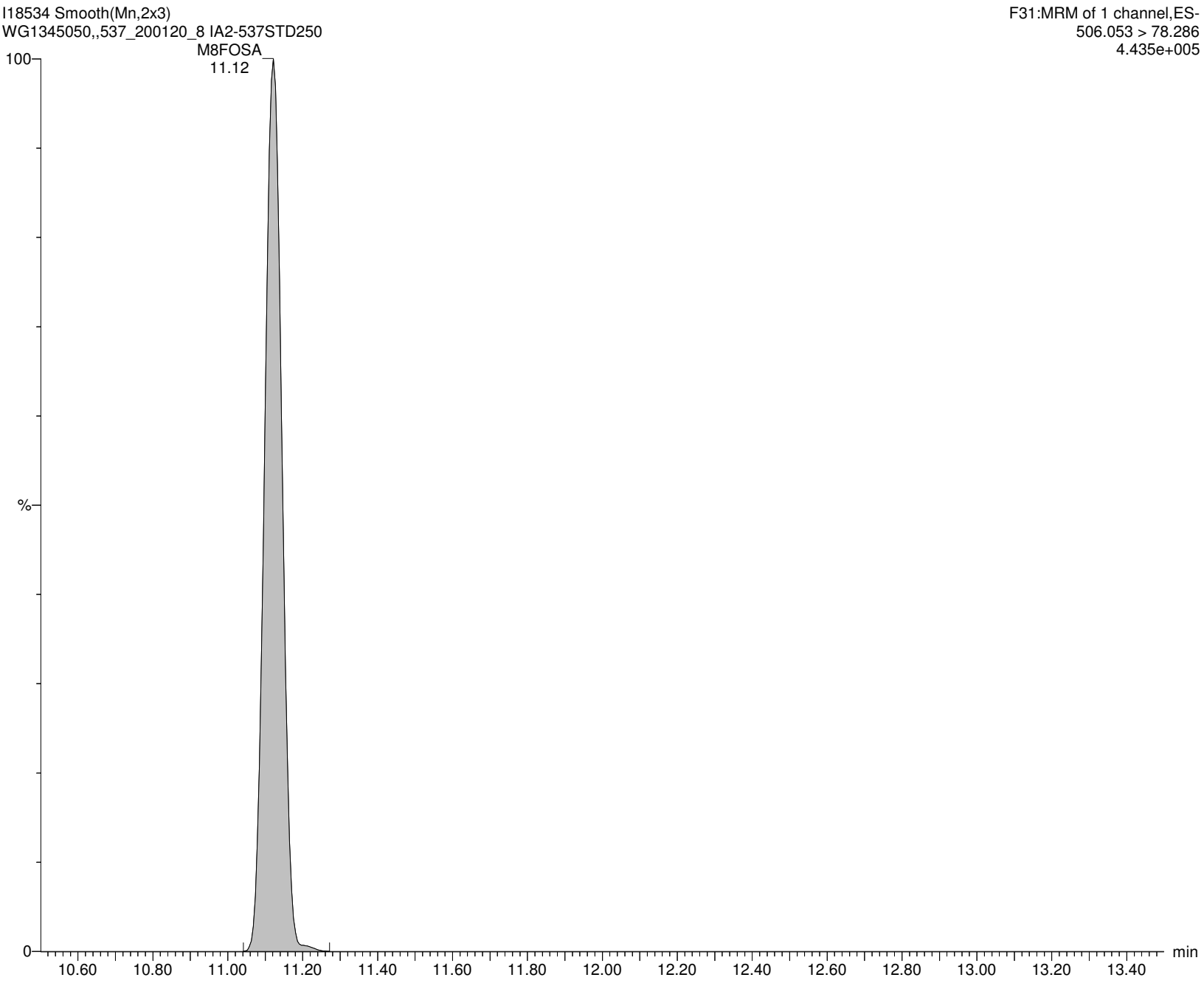
M8FOSA



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Alpha Analytical Inc.
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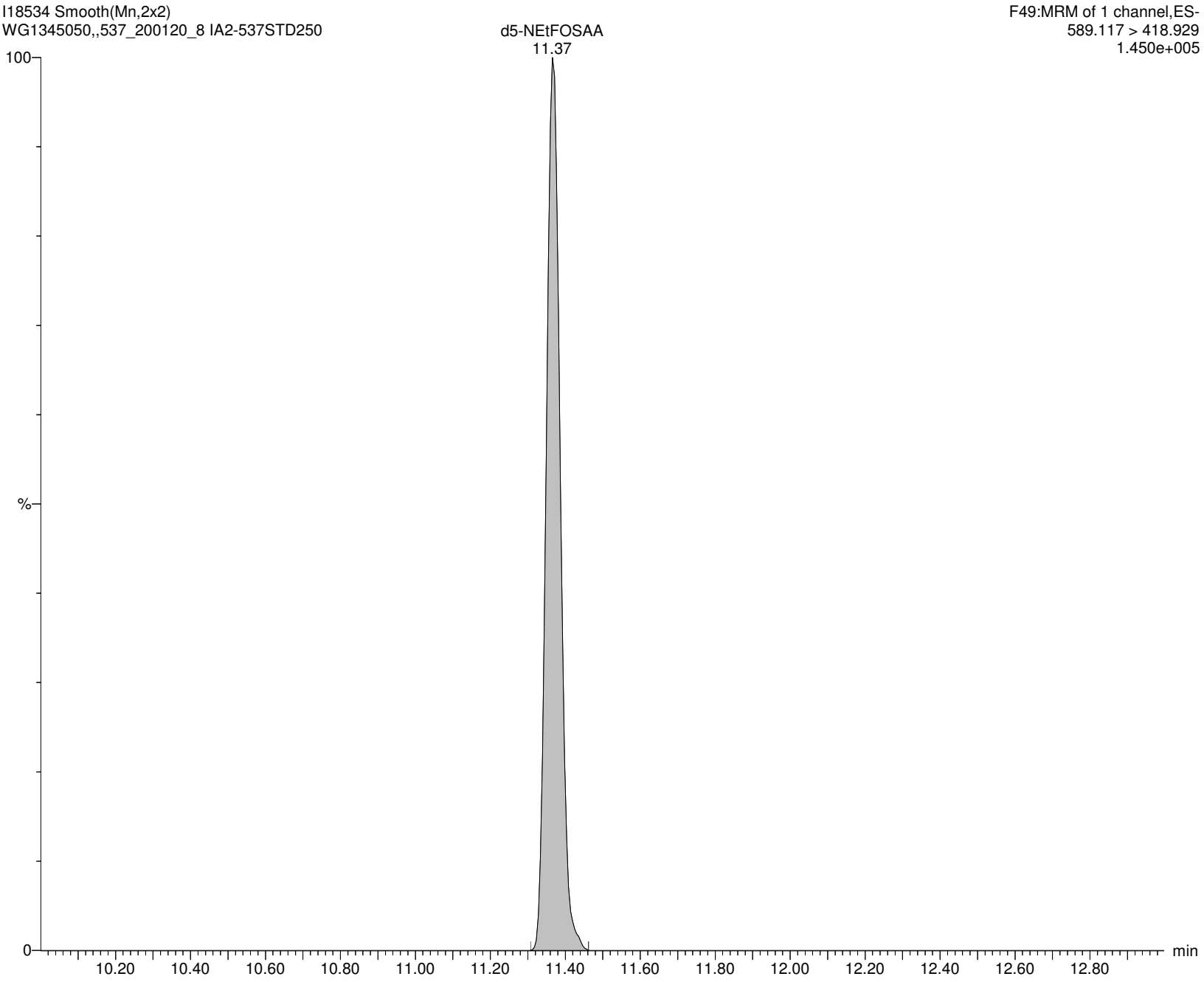
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:55 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:25:04
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Vial: 1:B,1
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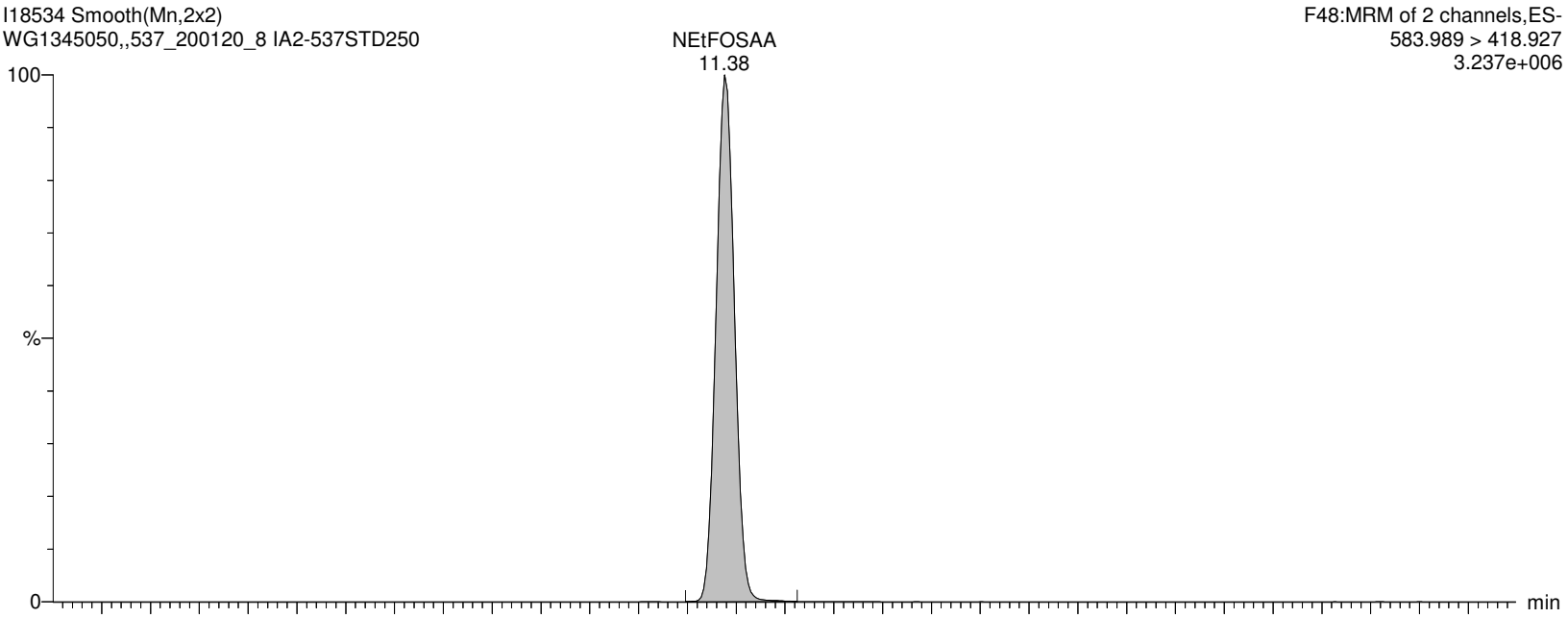

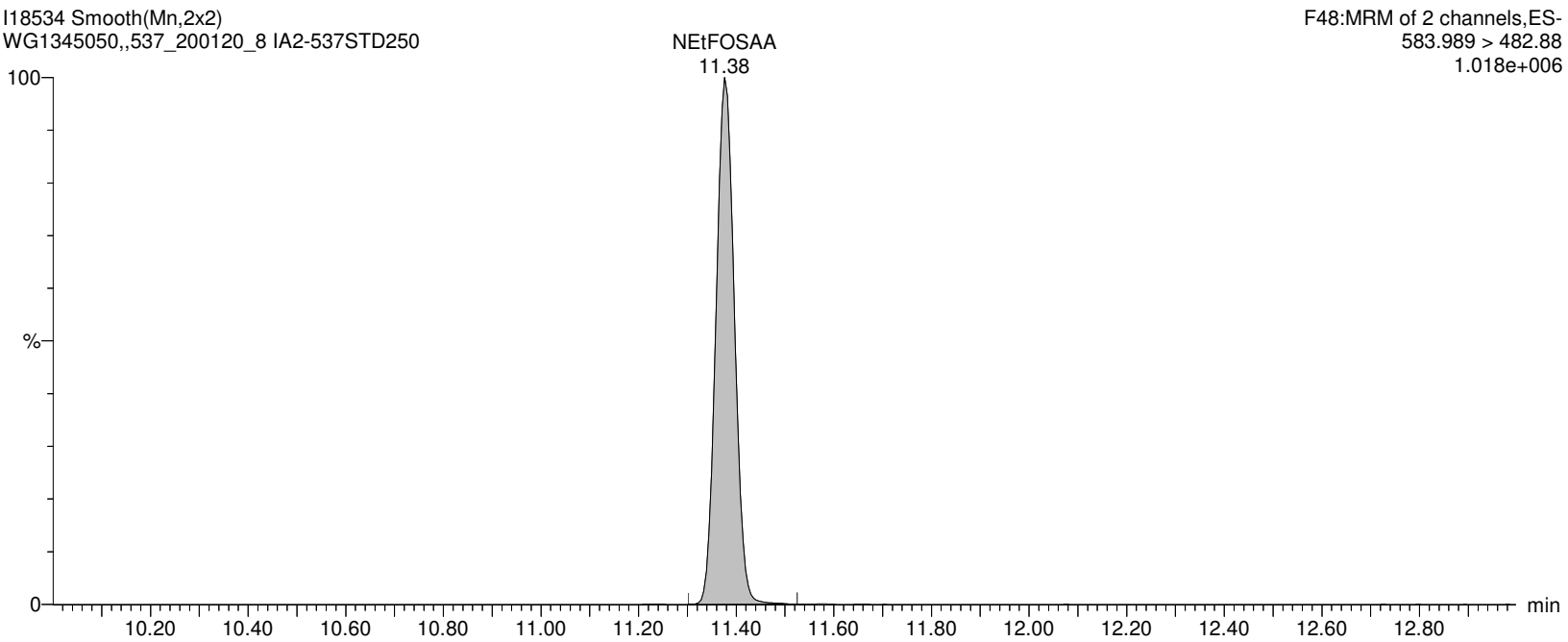

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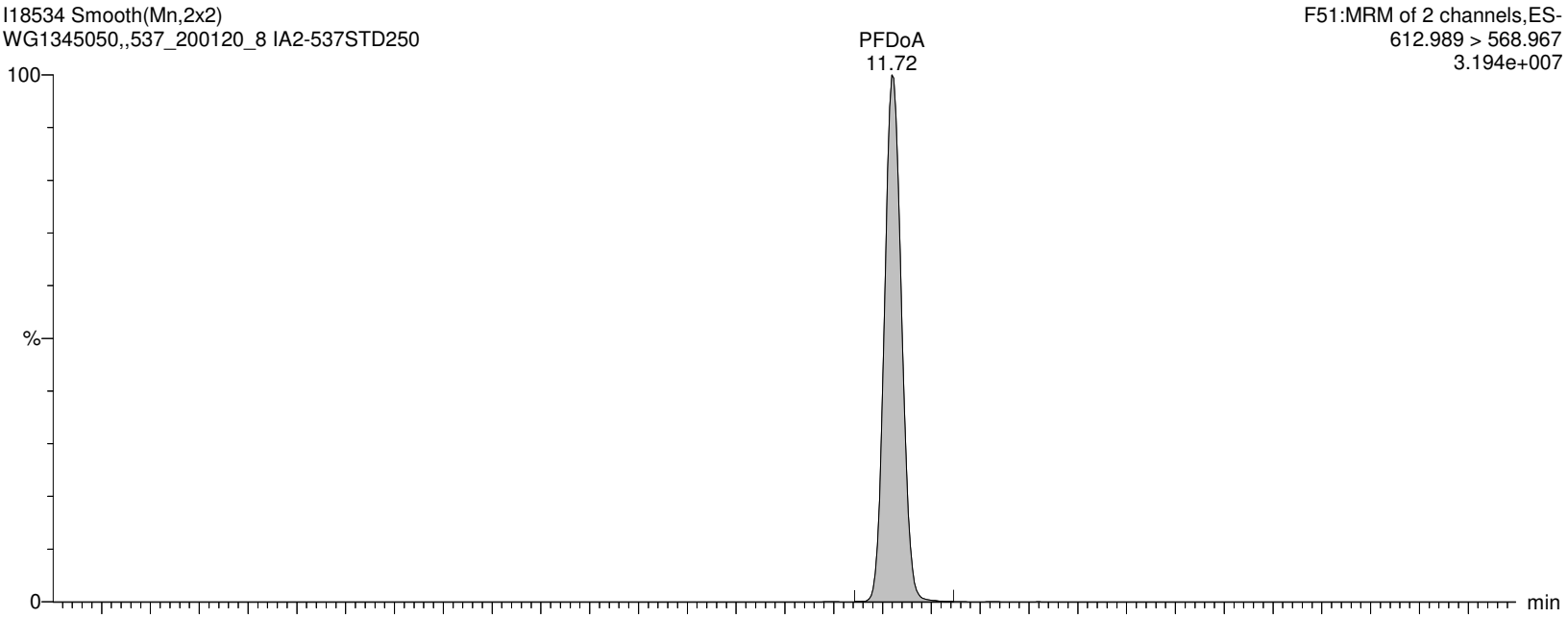

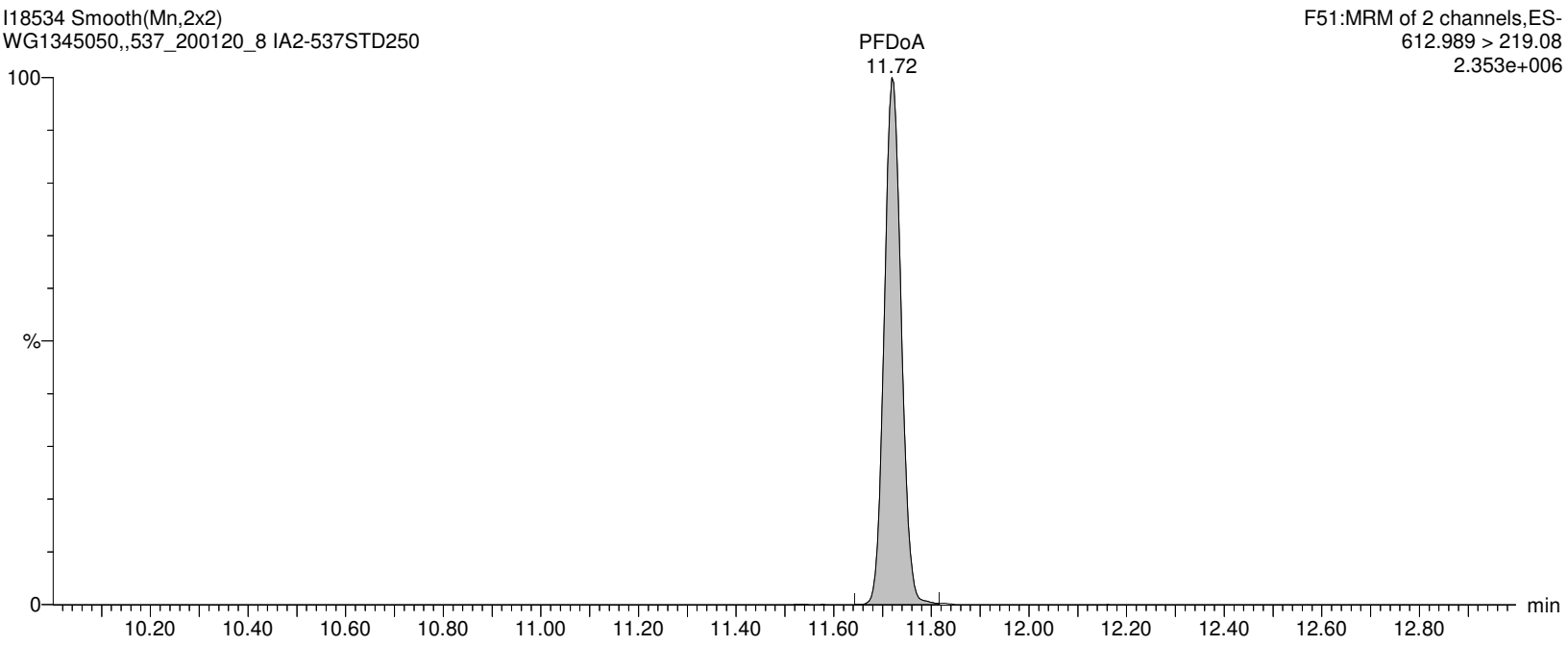

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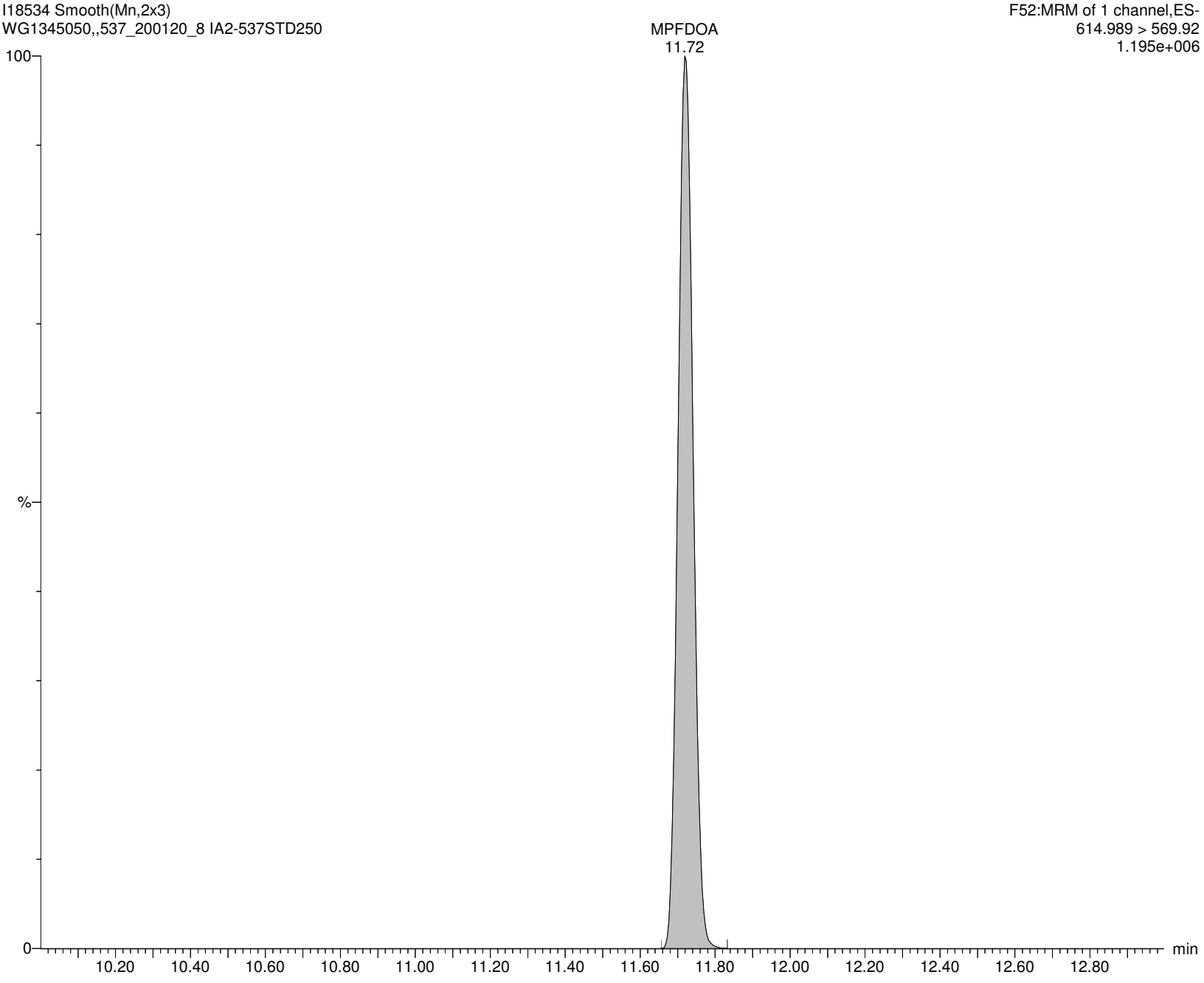

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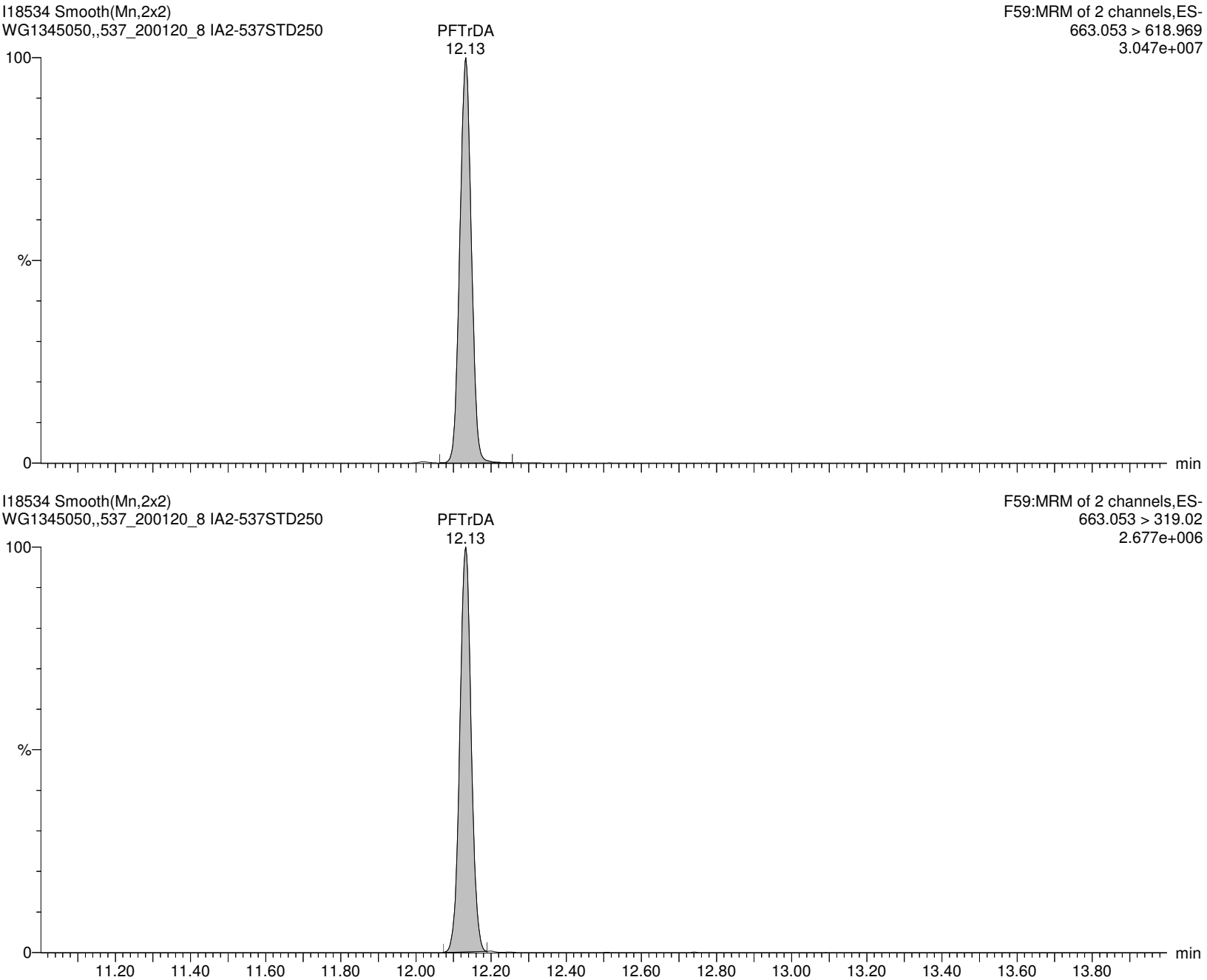

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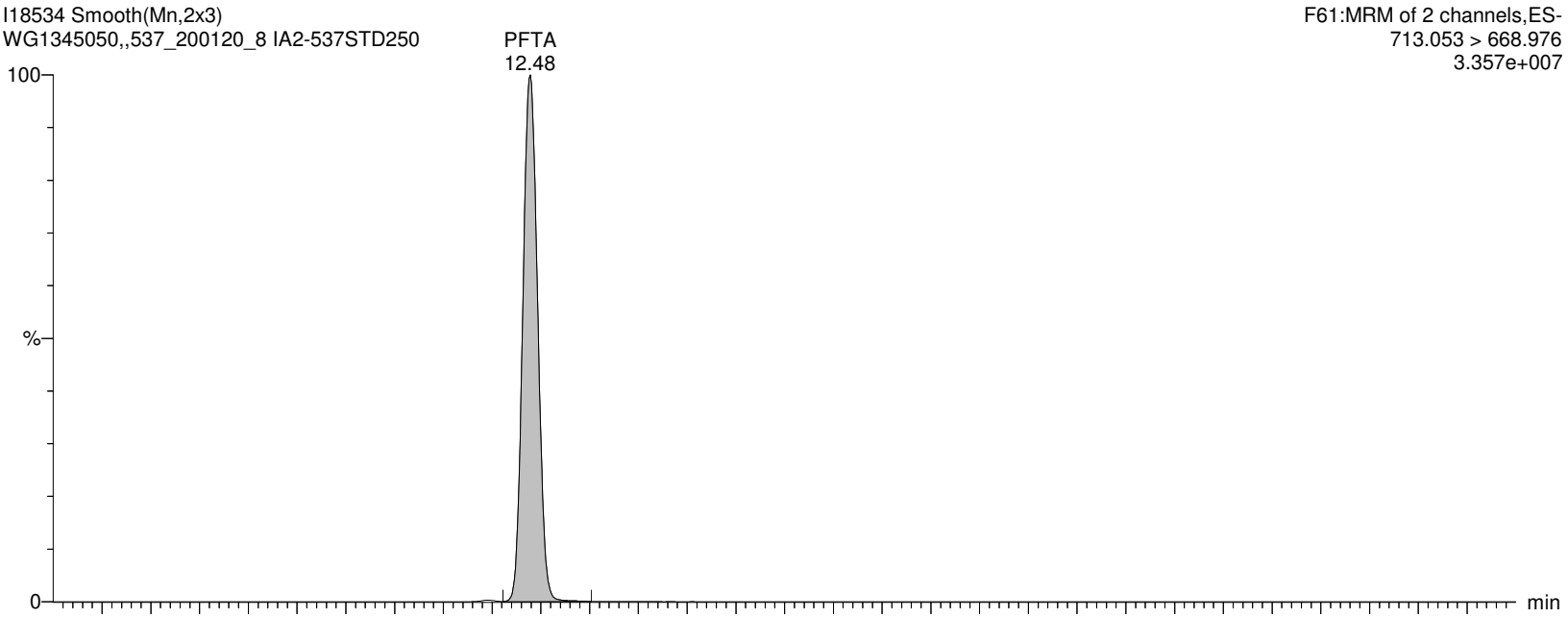

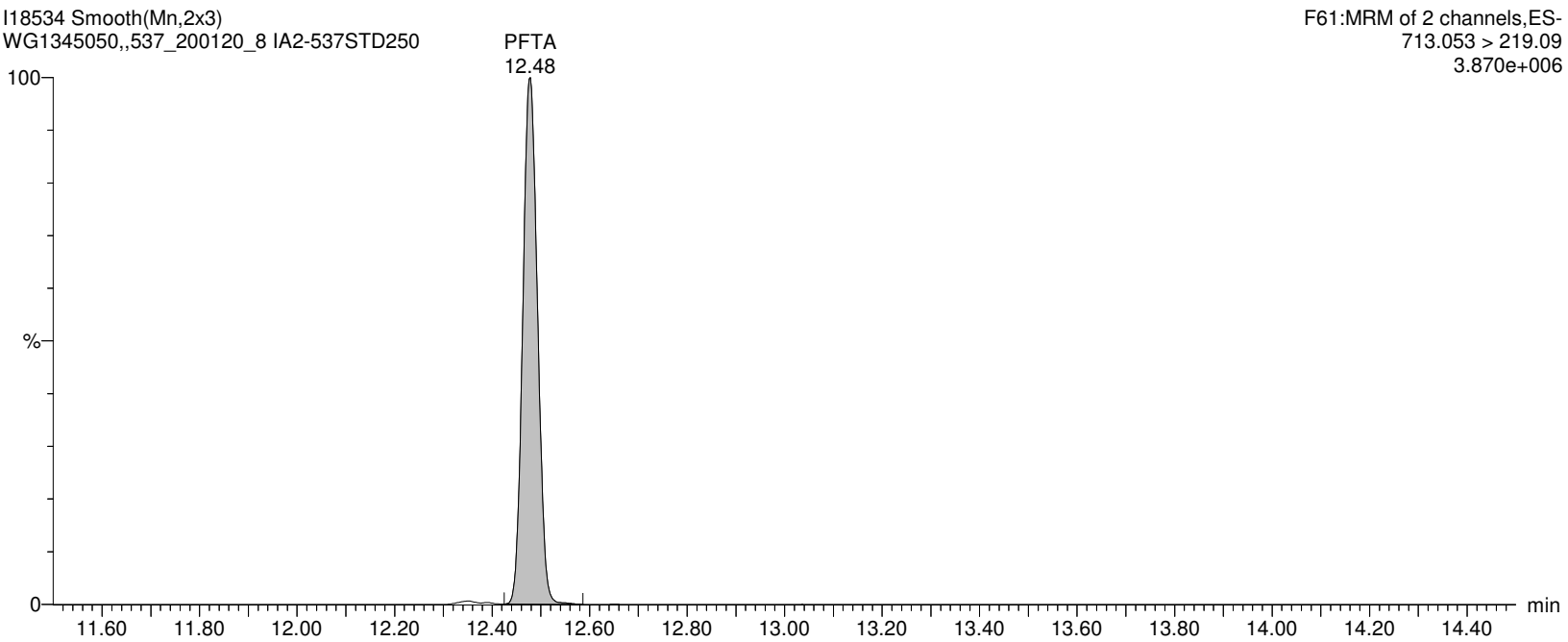

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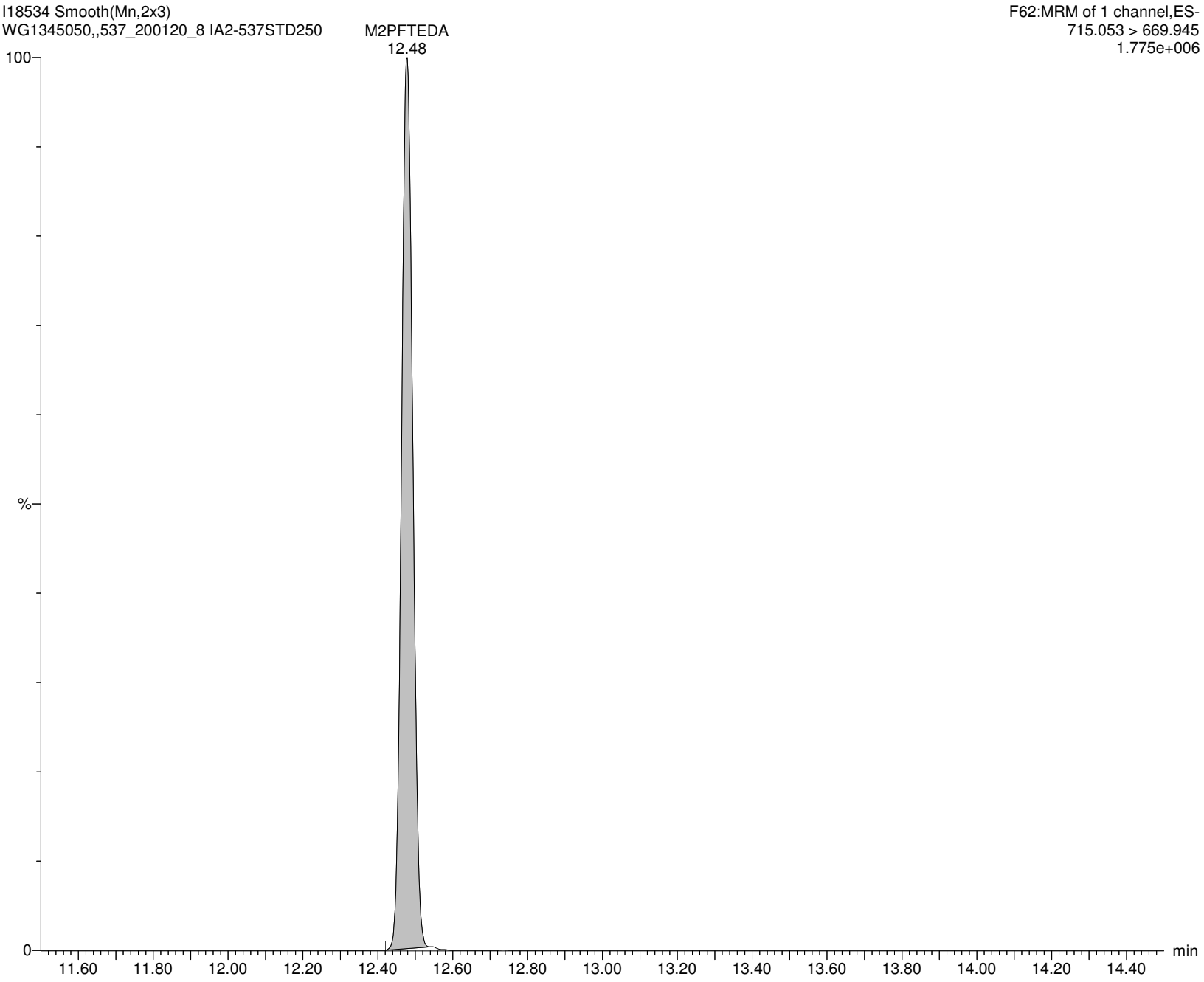

all concentration units in (ng/mL)

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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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ID: IA2-537STD500
Name: I18535
Date: 27-Feb-2020
Time: 15:41:35
Description: WG1345050,,537_200120_9
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:SG
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	1438833		497.417		na	99.5
2	M3PFBA	INT STD	2.25	215.926 > 172.122	34340		8.733		na	87.3
3	MPFBA	INT STD	2.25	216.926 > 172.137	41222		10.476		na	104.8
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	1701959		497.520		na	99.5
5	M5PFPEA	INT STD	5.20	267.989 > 223.081	50736		9.718		na	97.2
6	PFBS	375-73-5	5.87	298.926 > 79.923	342904		441.215	2.03	NO	99.7
7	M3PFBS	INT STD	5.87	301.989 > 80.254	8726		12.323		na	123.2
8	4:2FTS	757124-72-4	7.04	326.926 > 306.957	178619		ND	1.78	NO	
9	M2-4:2FTS	INT STD	7.04	329.117 > 309.079	13942		37.791		na	377.9
10	PFHxA	307-24-4	7.12	312.989 > 269.028	2120807		498.267	17.20	NO	99.7
11	M5PFHxA	INT STD	7.12	317.989 > 273.045	53405		10.939		na	109.4
12	PFPeS	2706-91-4	7.41	348.926 > 80.251	311895		467.221	2.36	NO	99.4
13	PFHpA	375-85-9	8.39	362.926 > 319.014	2424789		497.361	5.01	NO	99.5
14	M4PFHpA	INT STD	8.39	366.926 > 321.979	59527		10.510		na	105.1
15	br-PFHxS	355-46-4	8.31	398.904 > 79.915	65752		84.562	2.98	NO	99.5
16	L-PFHxS	355-46-4	8.55	398.904 > 79.915	176929		368.313	1.94	NO	99.5
17	PFHxS	355-46-4		398.904 > 79.915	242681		452.875		na	
18	M3PFHxS	INT STD	8.55	401.926 > 80.317	6310		9.946		na	99.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.34	412.989 > 368.9	2389997		498.126	8.32	NO	99.6
21	M2PFOA	INT STD	9.34	415.032 > 369.968	59631		7.088		na	70.9
22	PFOA	335-67-1		412.989 > 368.9	2389997		498.126		na	
23	M8PFOA	INT STD	9.34	420.989 > 375.979	60241		10.594		na	105.9
24	6:2FTS	27619-97-2	9.30	426.989 > 406.921	38208		150.398	0.70	NO	31.7
25	M2-6:2FTS	INT STD	9.30	428.989 > 408.917	10649		46.387		na	463.9
26	PFHpS	375-92-8	9.43	448.926 > 80.257	168802		475.440	1.07	NO	100.1
27	PFNA	375-95-1	10.09	462.989 > 418.931	1948727		504.428	3.91	NO	100.9
28	M9PFNA	INT STD	10.09	472.053 > 426.947	51922		9.340		na	93.4
29	br-PFOS	1763-23-1	9.95	498.968 > 79.918	83526	M5	99.682	3.44	NO	99.7
30	L-PFOS	1763-23-1	10.14	498.968 > 79.918	138350		363.427	1.31	NO	99.6
31	PFOS	1763-23-1		498.968 > 79.918	221876		463.109		na	
32	M4PFOS	INT STD	10.14	503.032 > 80.306	5520		6.499		na	65.0
33	M8PFOS	INT STD	10.13	507.053 > 80.294	5671		8.847		na	88.5
34	PFDA	335-76-2	10.71	513.053 > 468.906	1718521		492.133	5.71	NO	98.4
35	M2PFDA	INT STD	10.71	515.053 > 469.934	41308		6.245		na	62.4
36	M6PFDA	INT STD	10.71	519.053 > 473.931	45589		10.031		na	100.3
37	8:2FTS	39108-34-4	10.70	527.032 > 507.079	41378		ND	1.60	NO	
38	M2-8:2FTS	INT STD	10.70	529.053 > 508.945	3821		27.525		na	275.2
39	PFNS	68259-12-1	10.74	548.989 > 80.249	195338		479.273	1.47	NO	99.8

all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	8473		14.073		na	140.7
41	NMeFOSAA	2355-31-9	11.08	570.053 > 418.917	244027		481.941	2.69	NO	96.4
42	PFUnA	2058-94-8	11.24	562.989 > 518.903	1567242		490.197	7.46	NO	98.0
43	M7-PFUDA	INT STD	11.24	570.053 > 524.923	40741		10.201		na	102.0
44	PFDS	335-77-3	11.26	598.926 > 80.314	194472		482.736	1.63	NO	100.0
45	FOSA	754-91-6	11.12	497.989 > 78.245	870578		496.089	190.46	NO	99.2
46	M8FOSA	INT STD	11.12	506.053 > 78.286	21360		11.728		na	117.3
47	d5-NEtFOSAA	INT STD	11.36	589.117 > 418.929	5900		13.438		na	134.4
48	NEtFOSAA	2991-50-6	11.37	583.989 > 418.927	255610		507.901	3.12	NO	101.6
49	PFDoA	307-55-1	11.71	612.989 > 568.967	2006536		466.947	13.48	NO	93.4
50	MPFDOA	INT STD	11.71	614.989 > 569.92	47330		11.023		na	110.2
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	1746415		507.675	11.80	NO	101.5
52	PFTA	376-06-7	12.47	713.053 > 668.976	1913145		490.164	8.93	NO	98.0
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	52678		10.886		na	108.9

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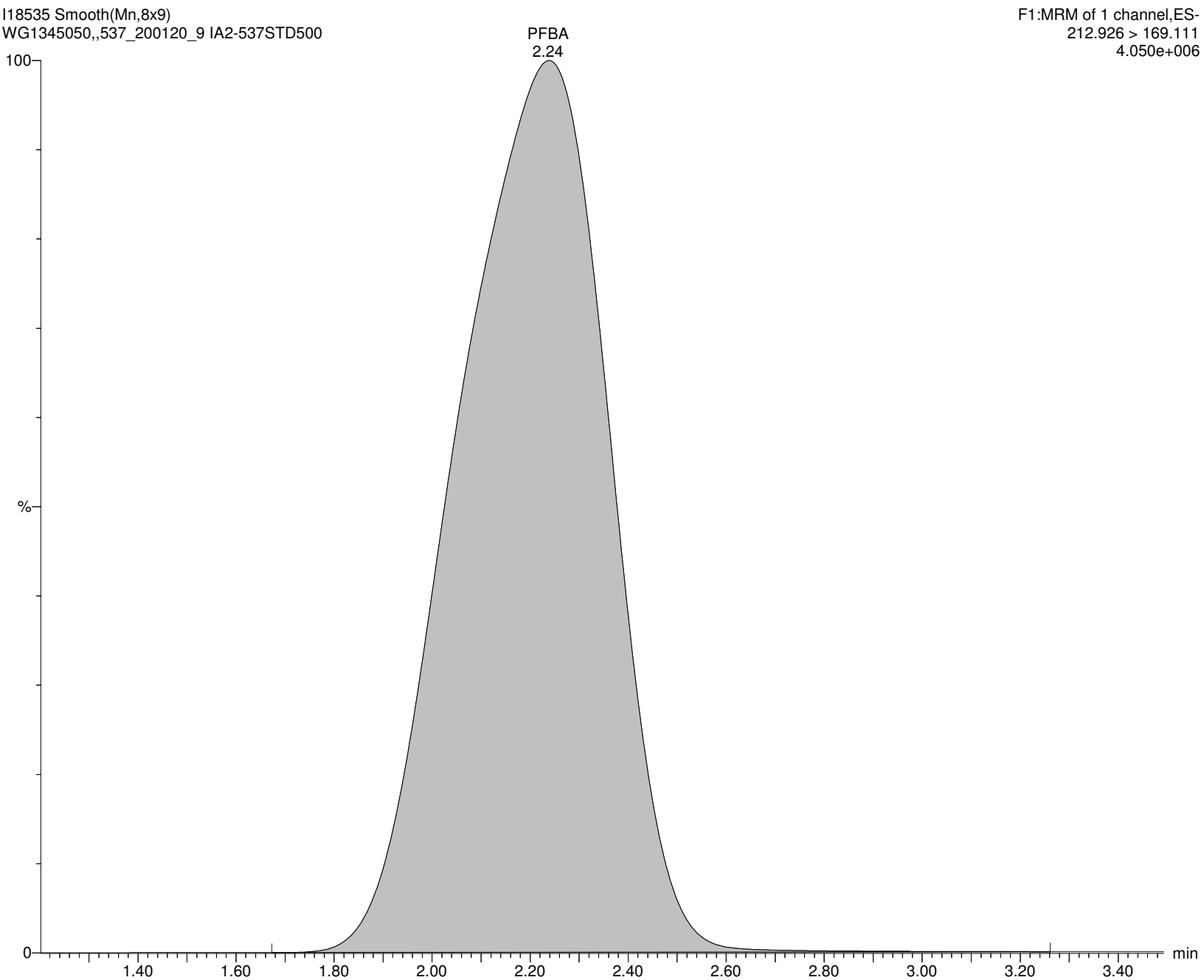

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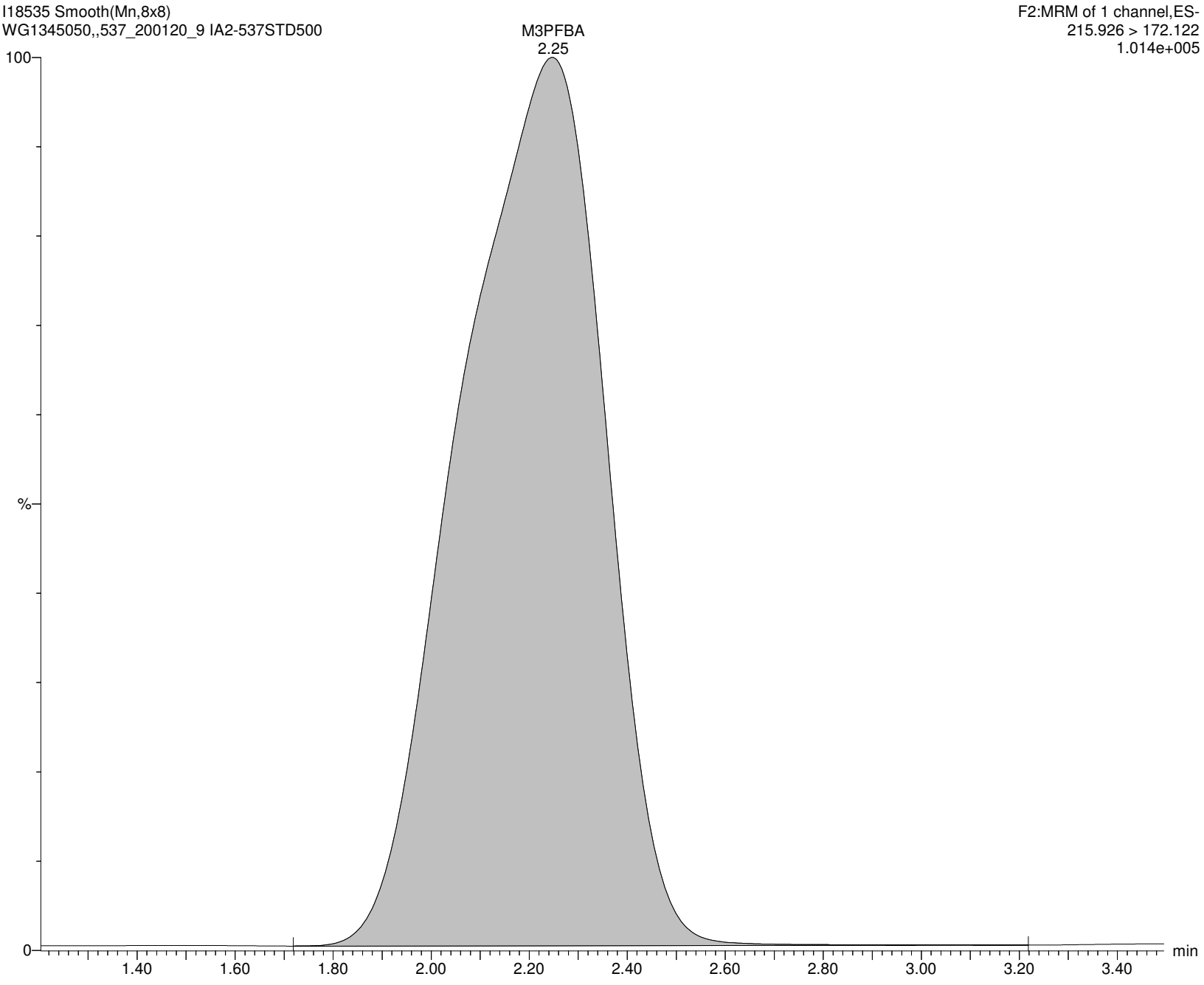

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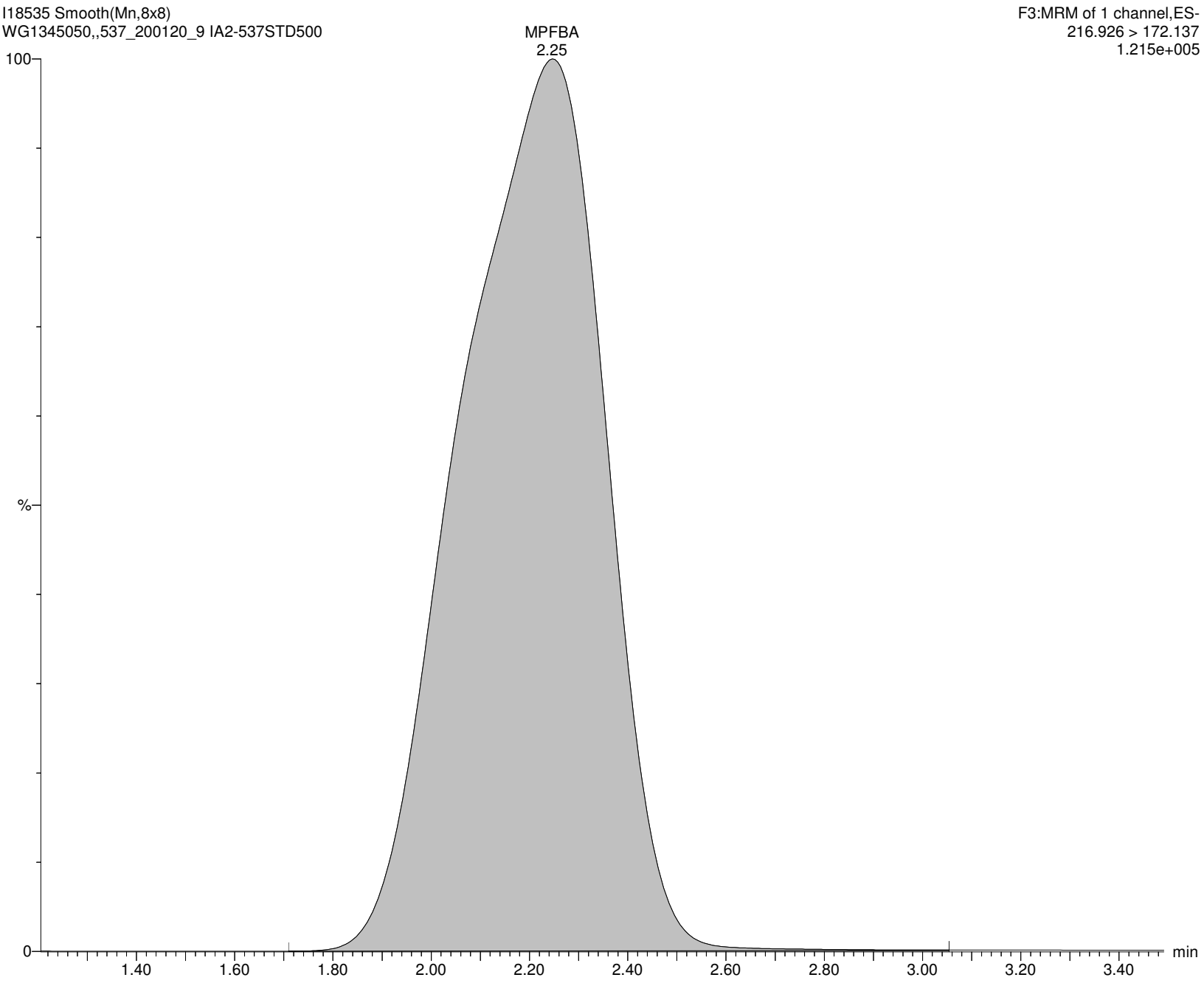

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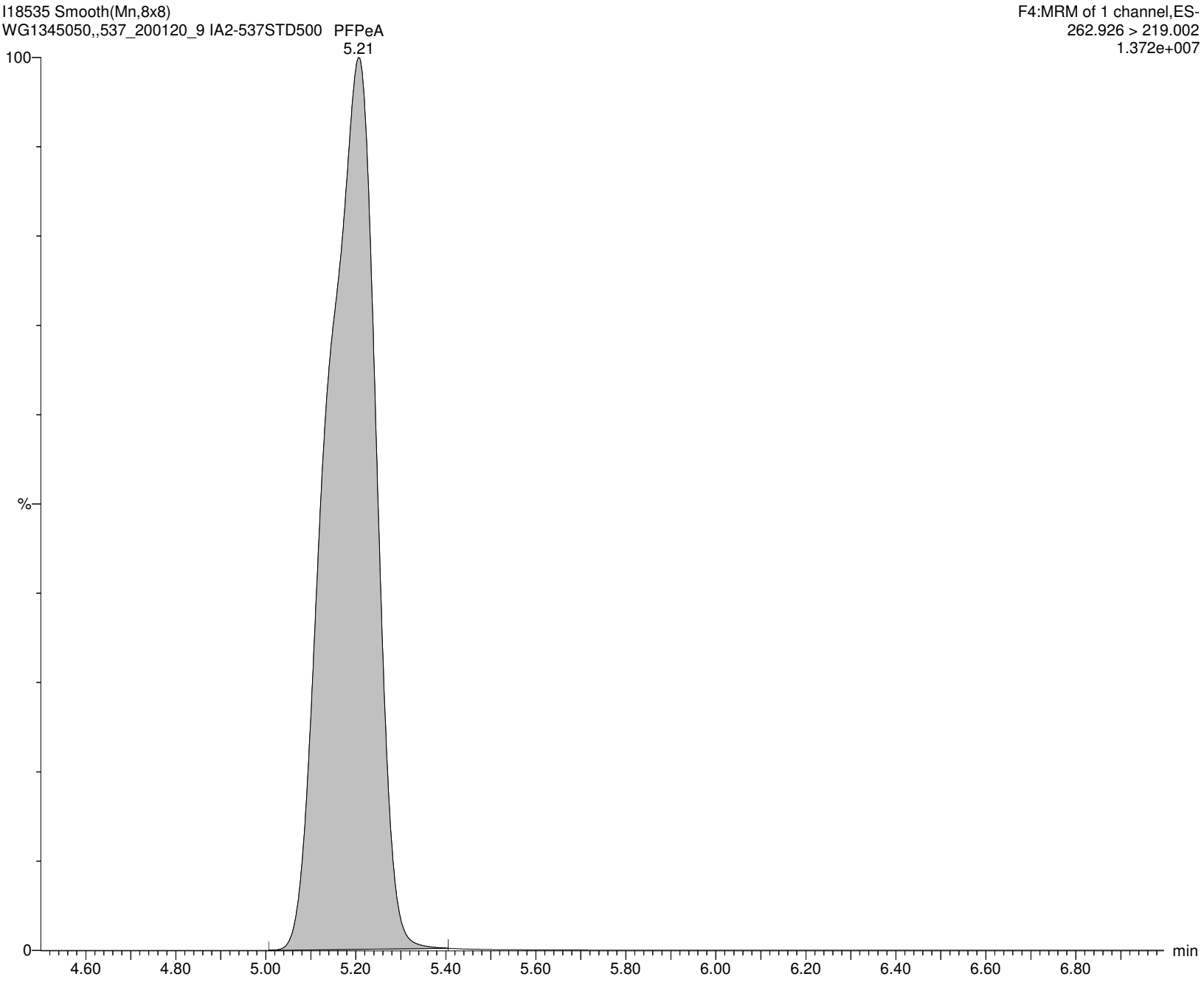

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:57 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:41:35
Description: WG1345050,,537_200120_9
User: LCMS01:SG
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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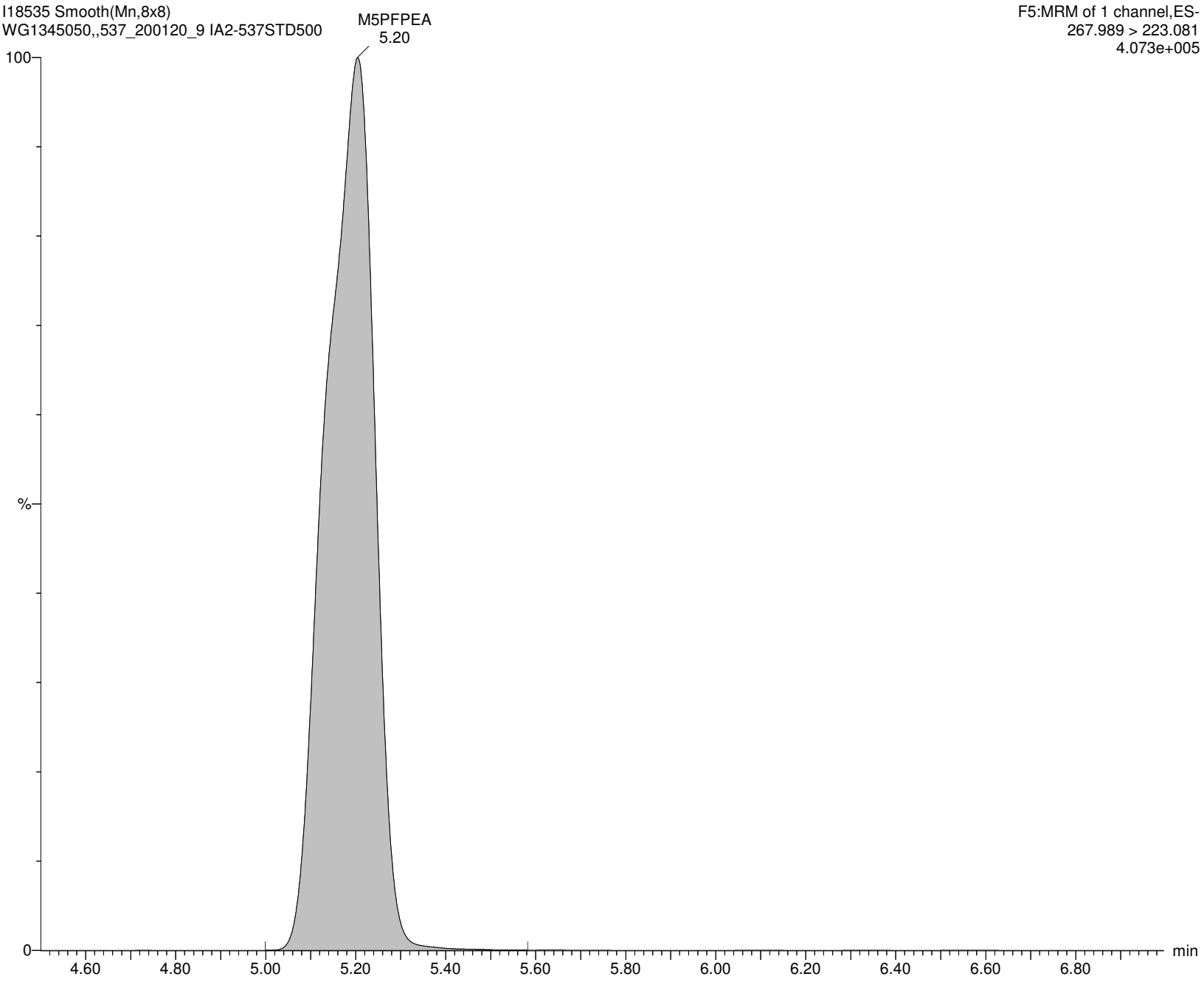

all concentration units in (ng/mL)

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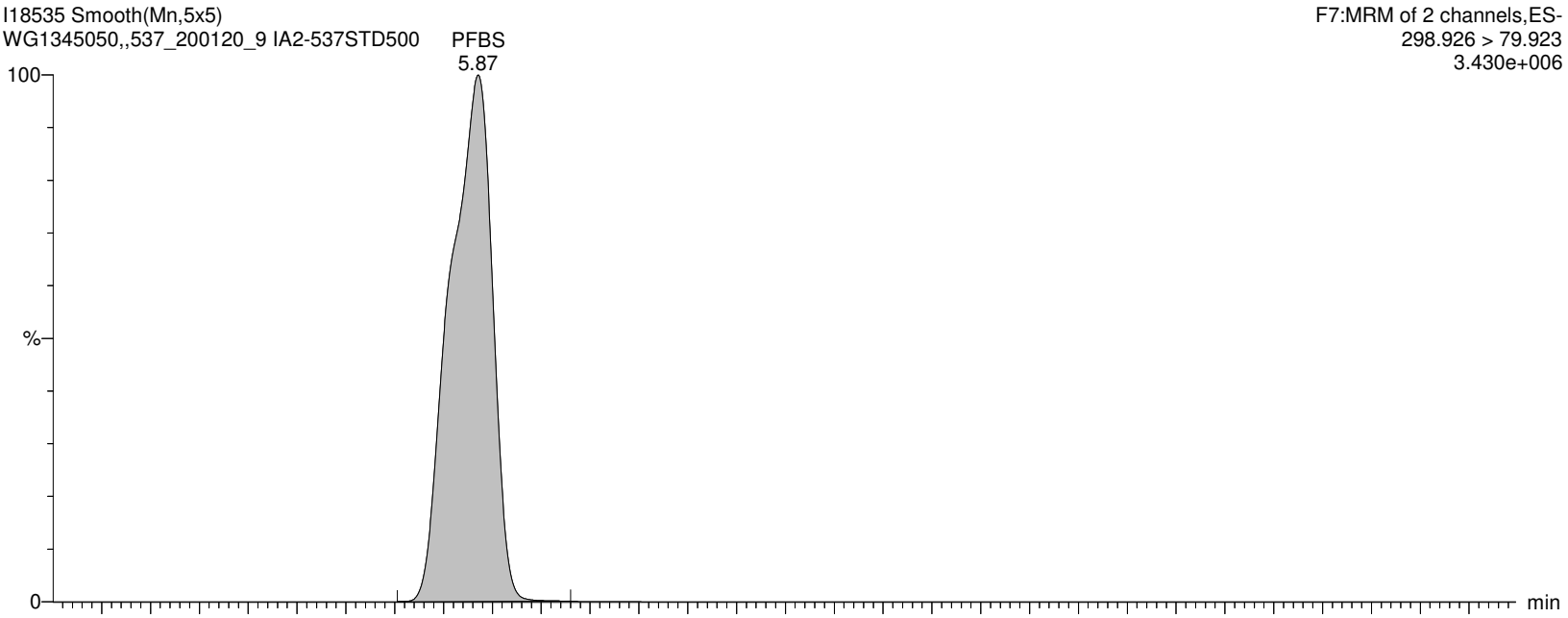

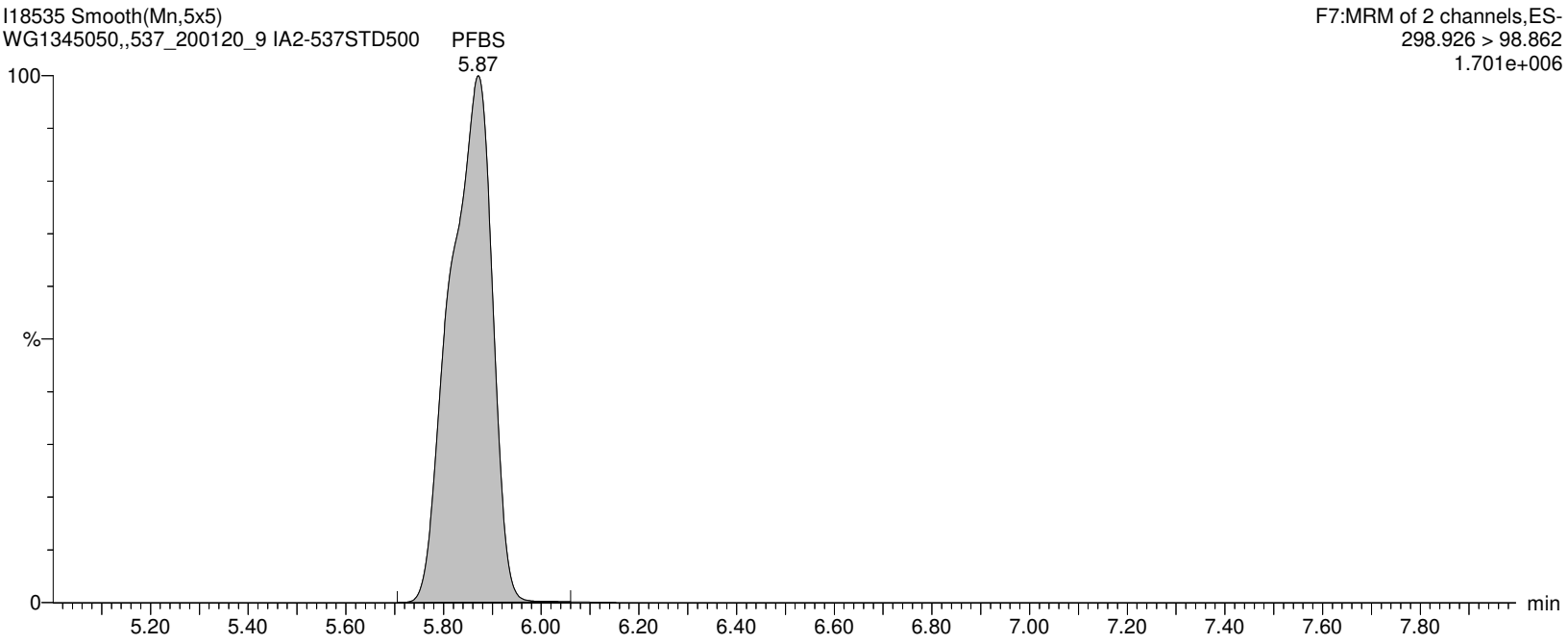

all concentration units in (ng/mL)

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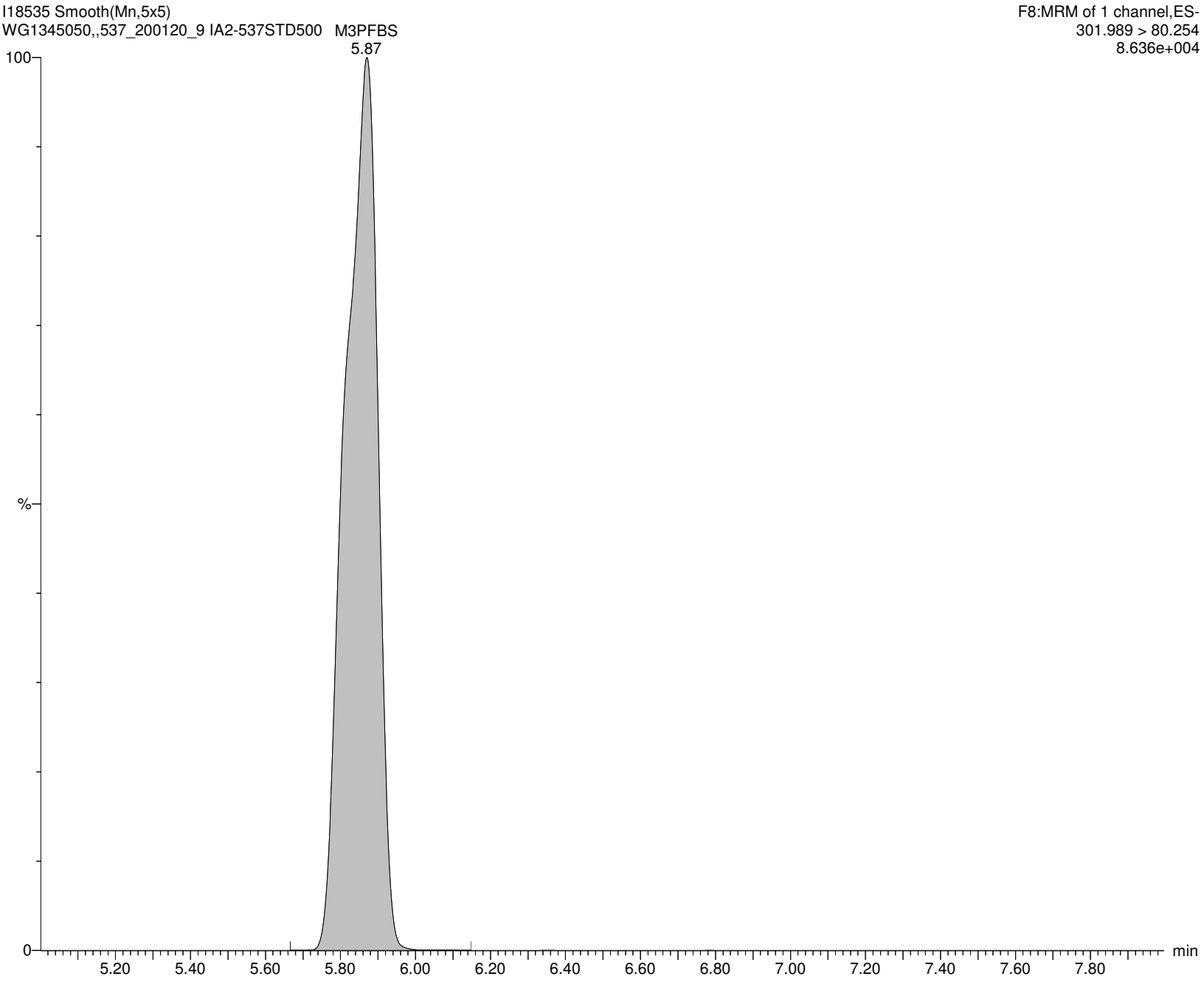

all concentration units in (ng/mL)

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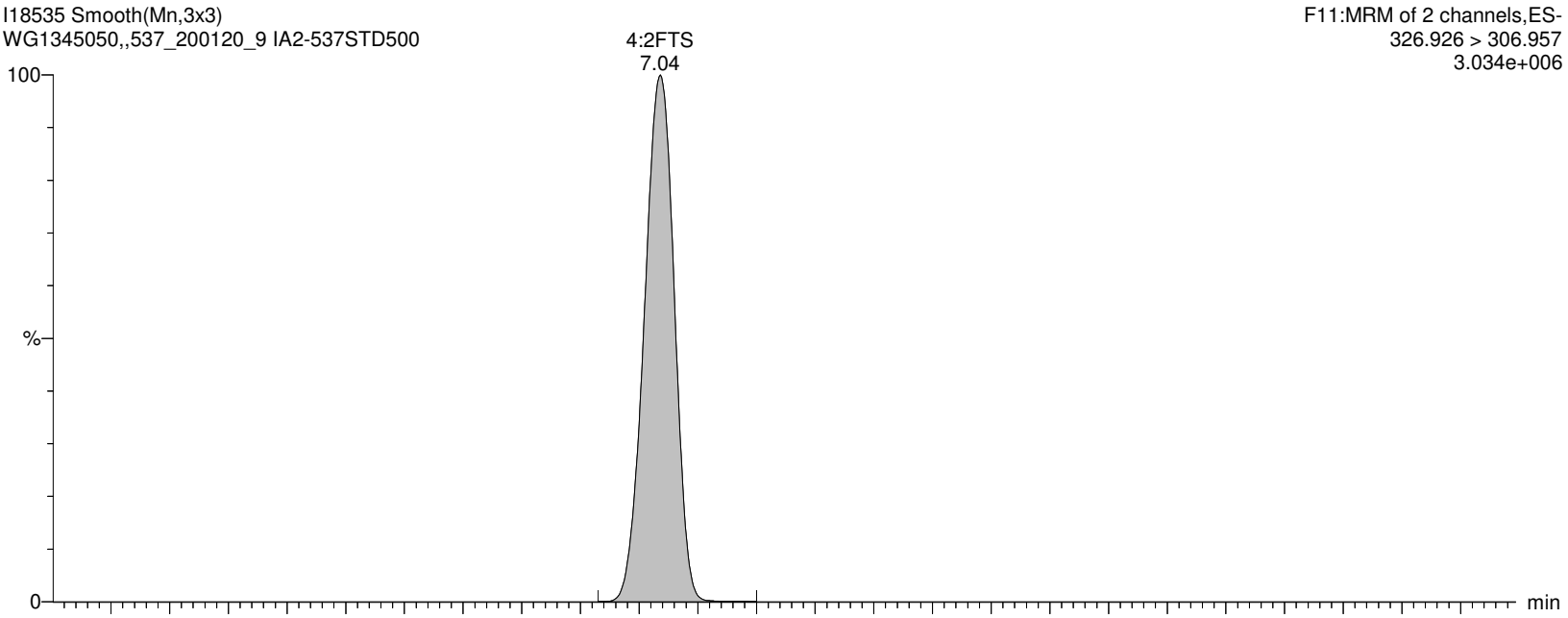

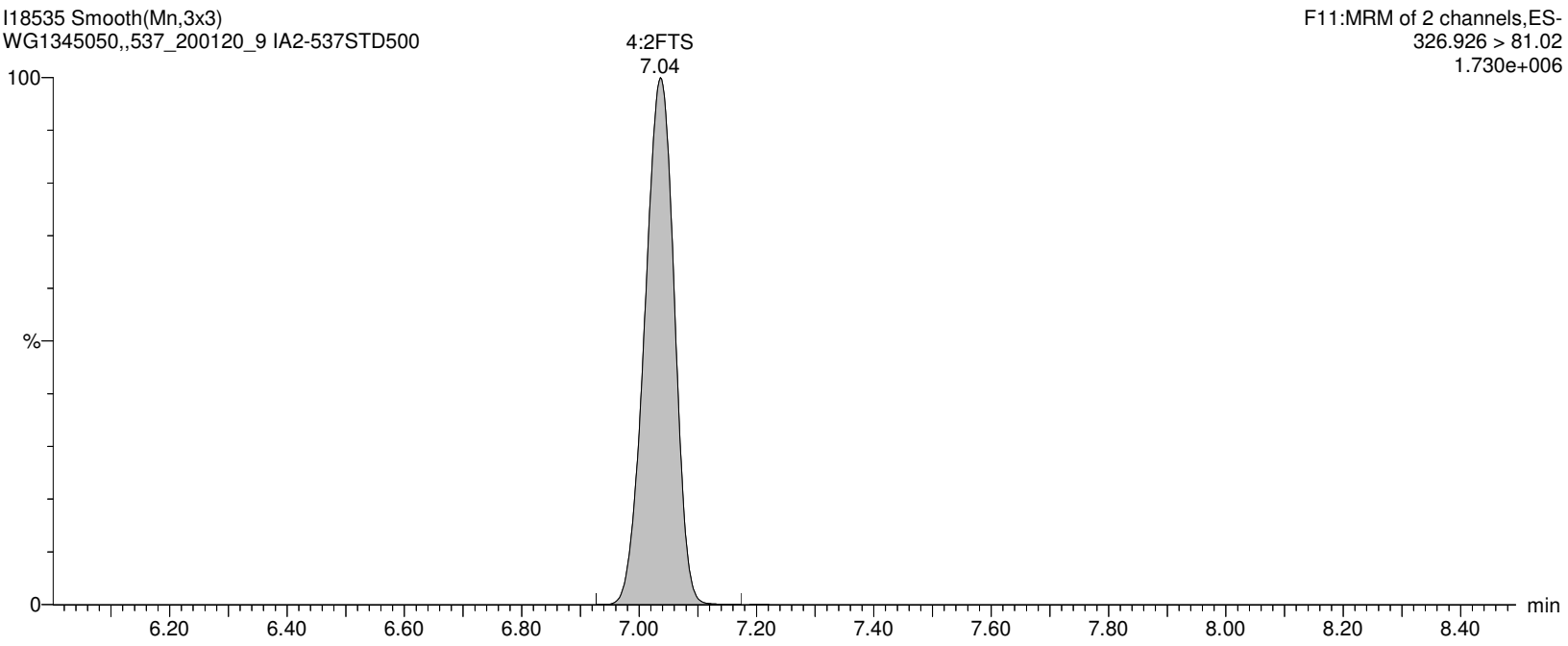

all concentration units in (ng/mL)

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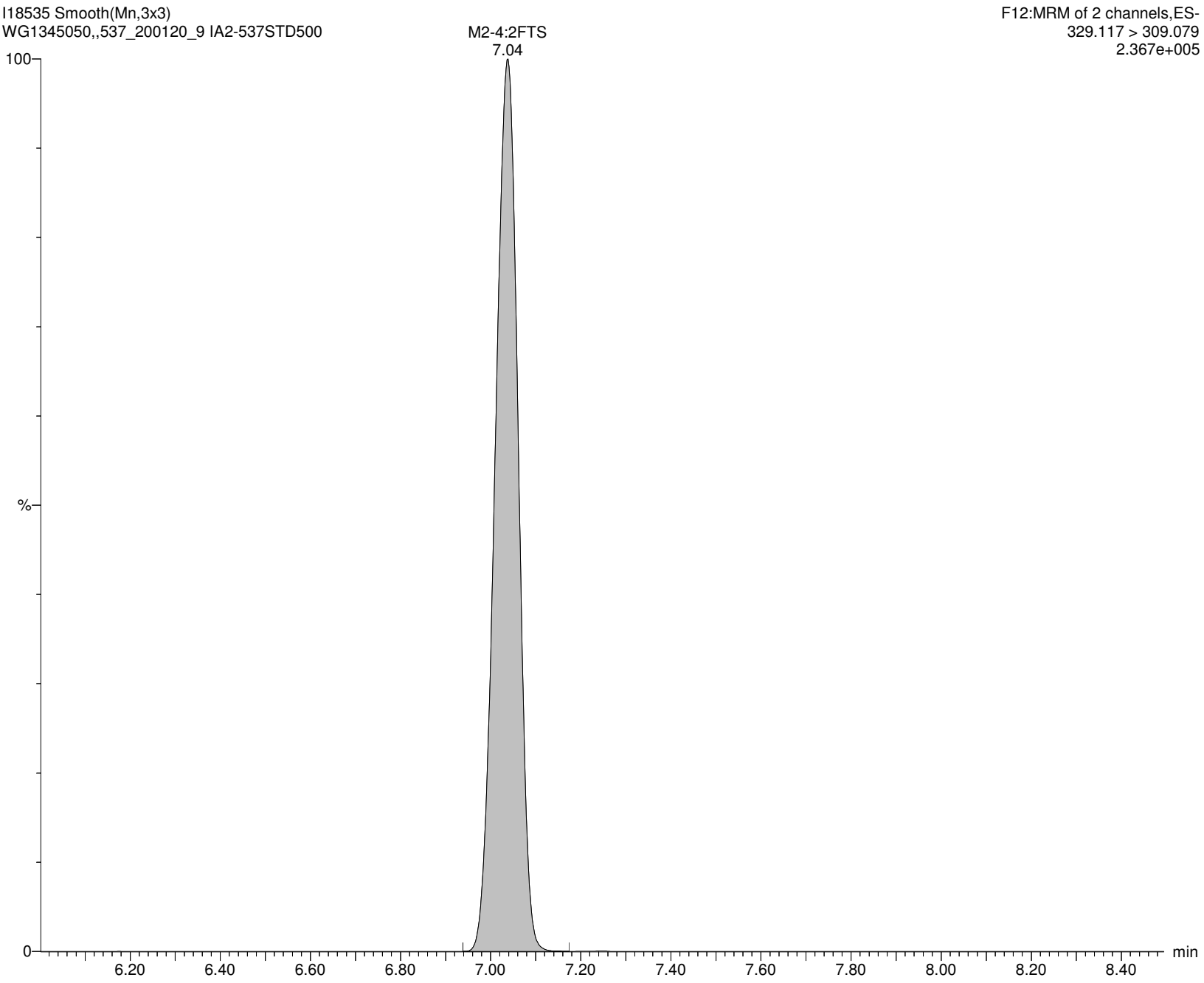

all concentration units in (ng/mL)

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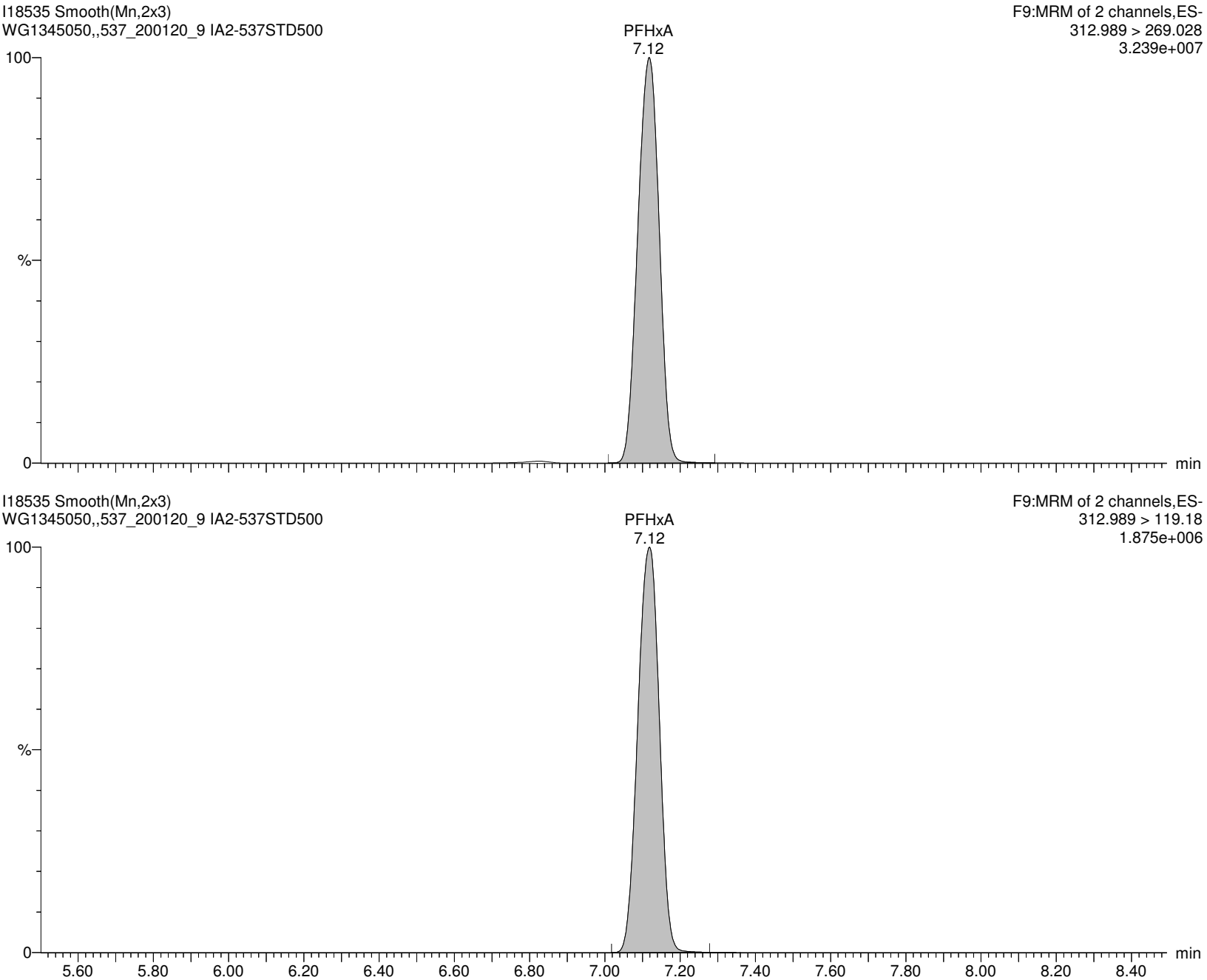

all concentration units in (ng/mL)

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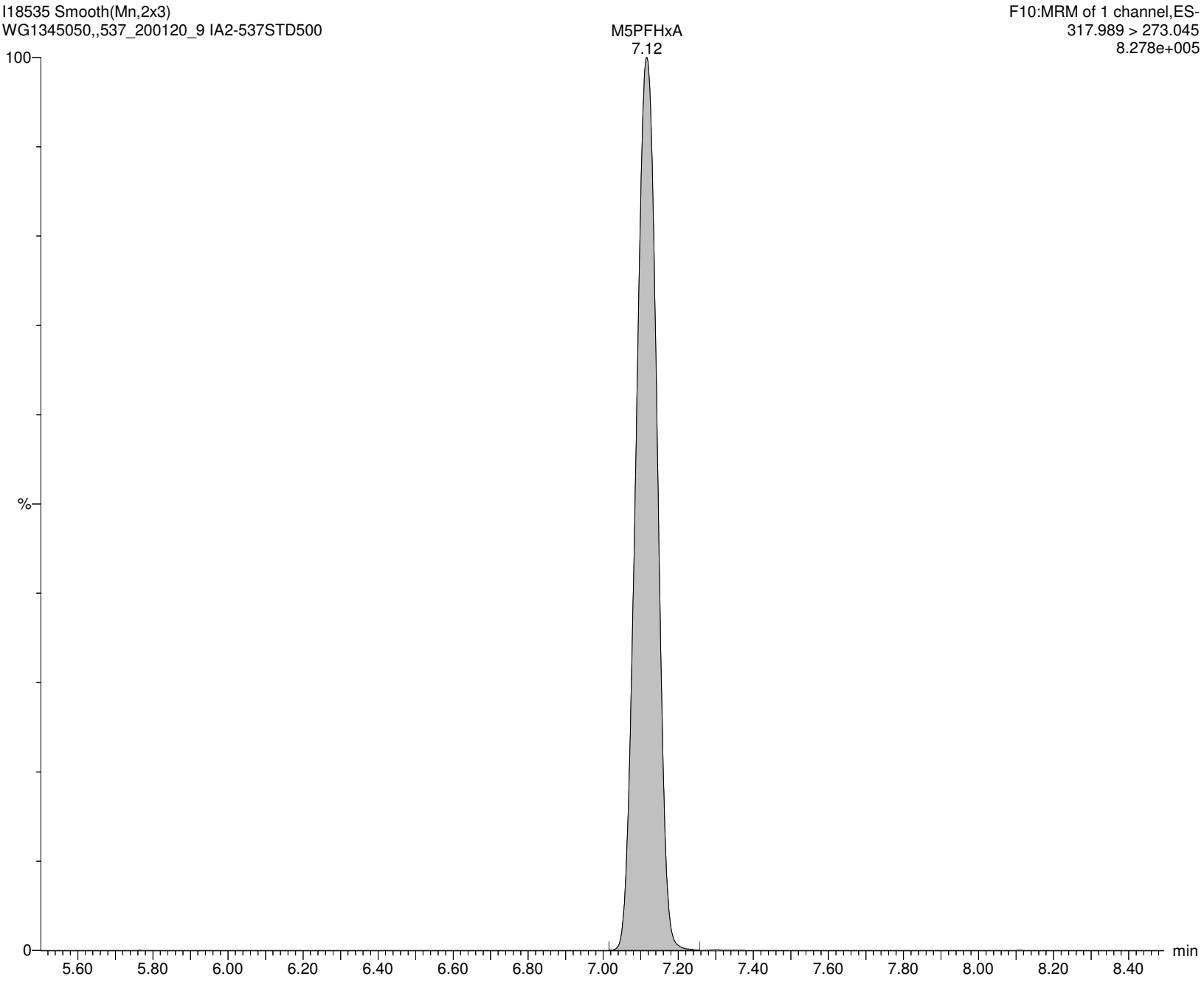

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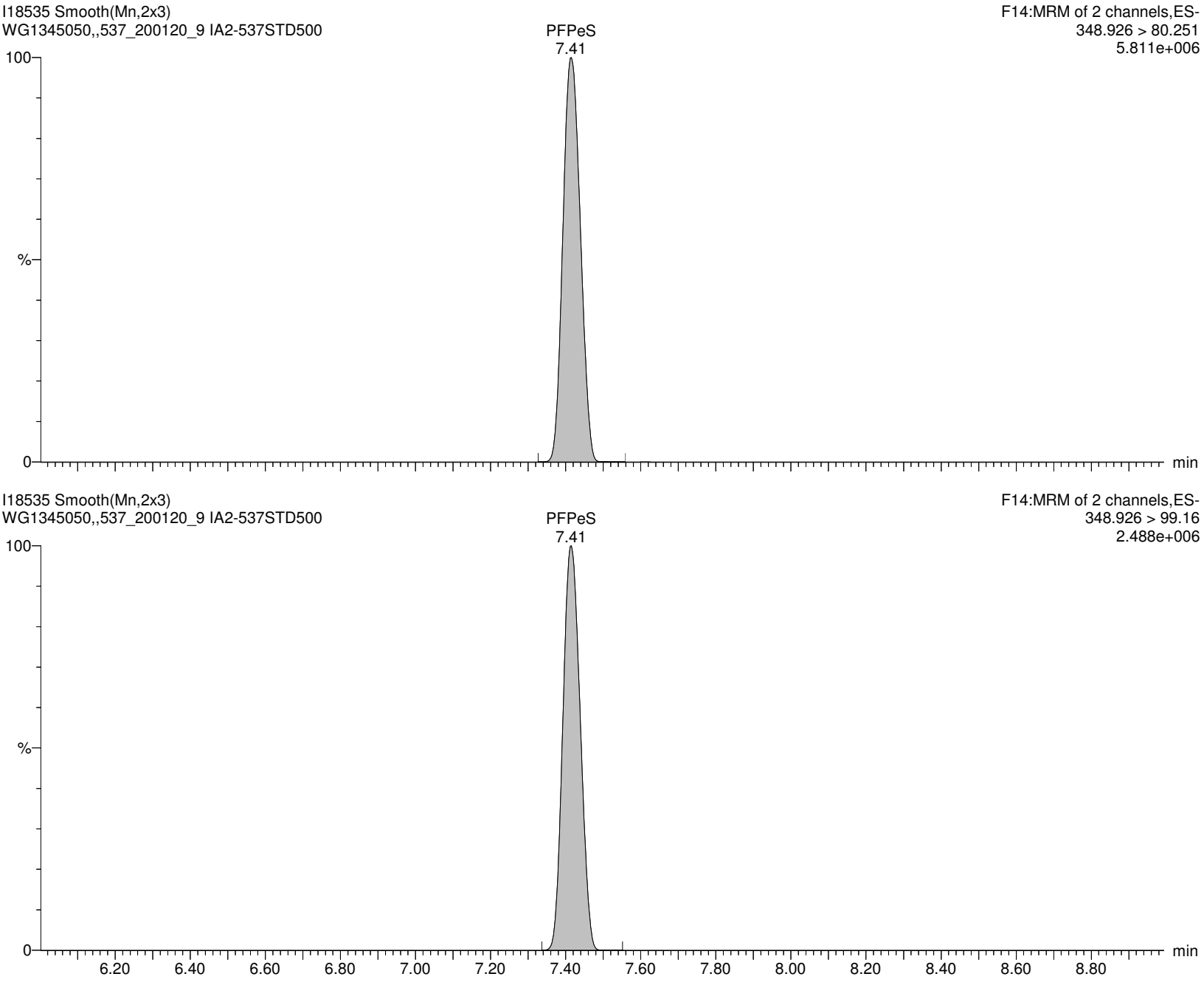

all concentration units in (ng/mL)

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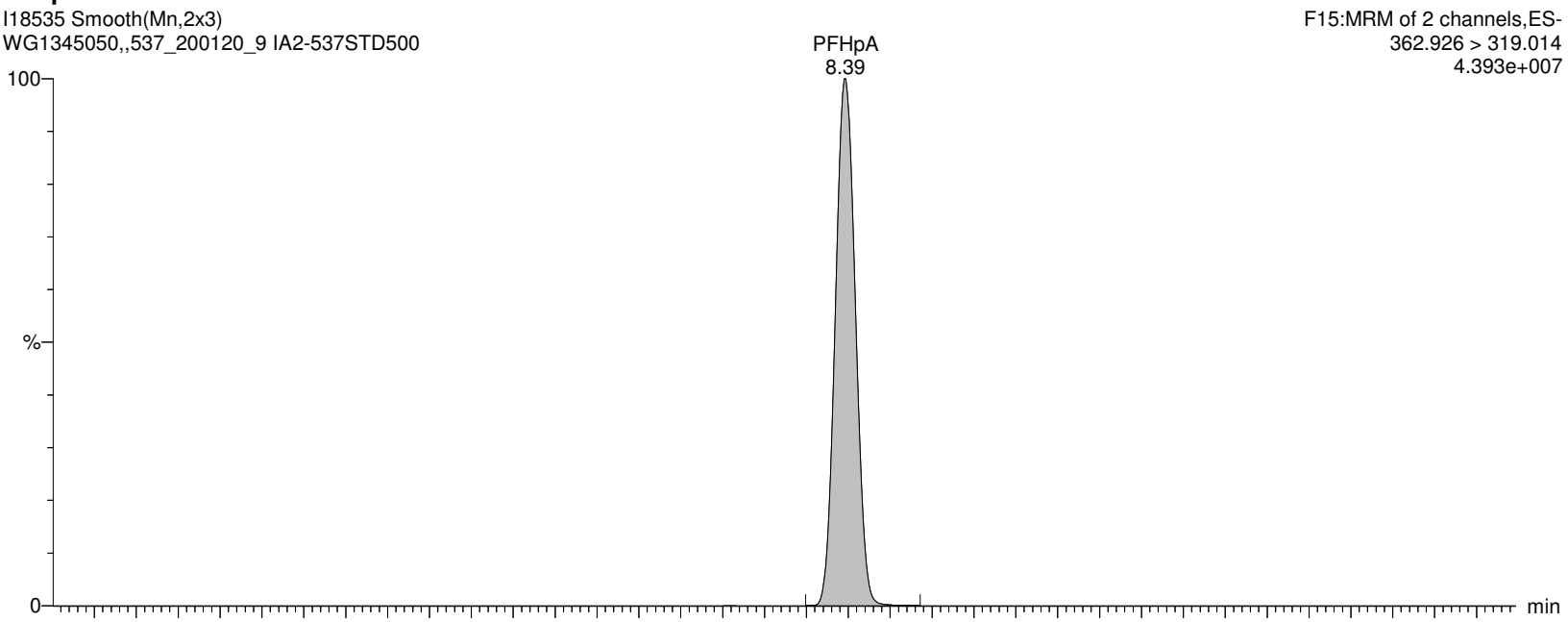

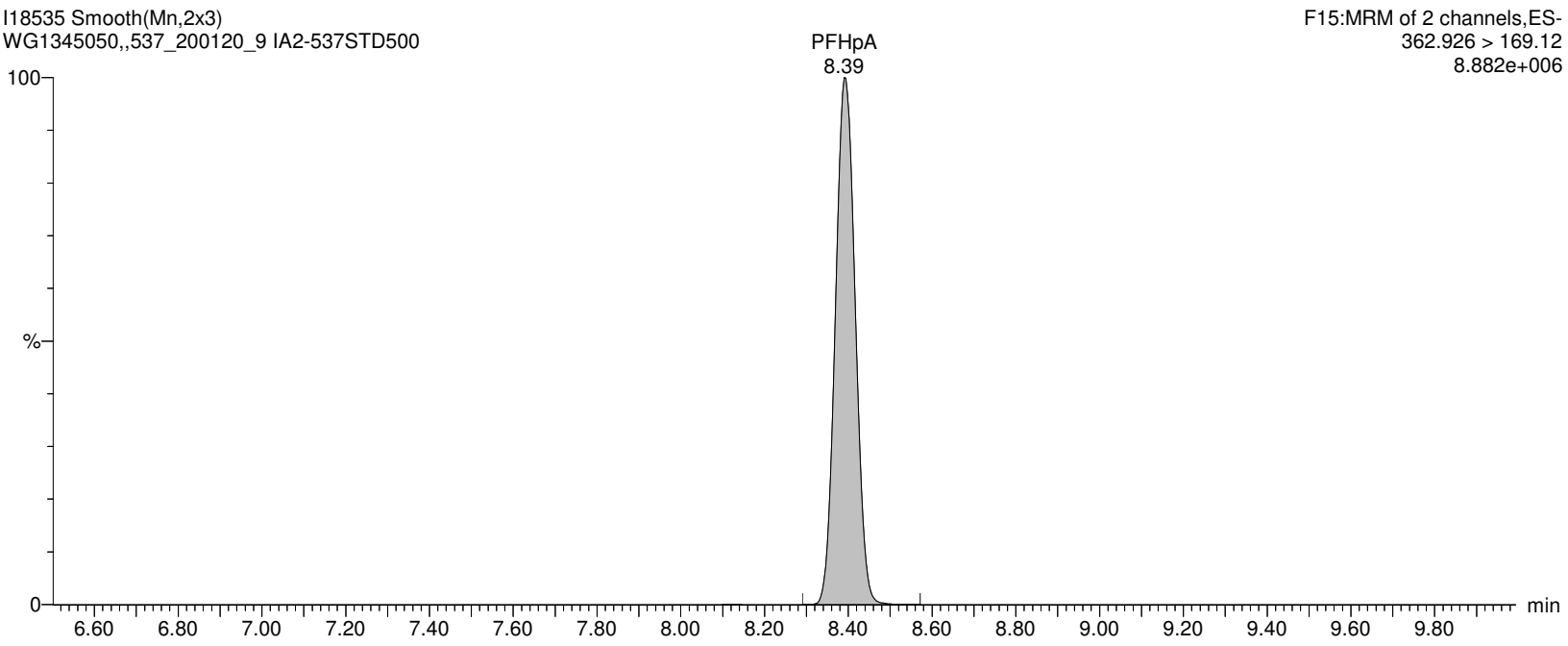

all concentration units in (ng/mL)

Alpha Analytical Inc.
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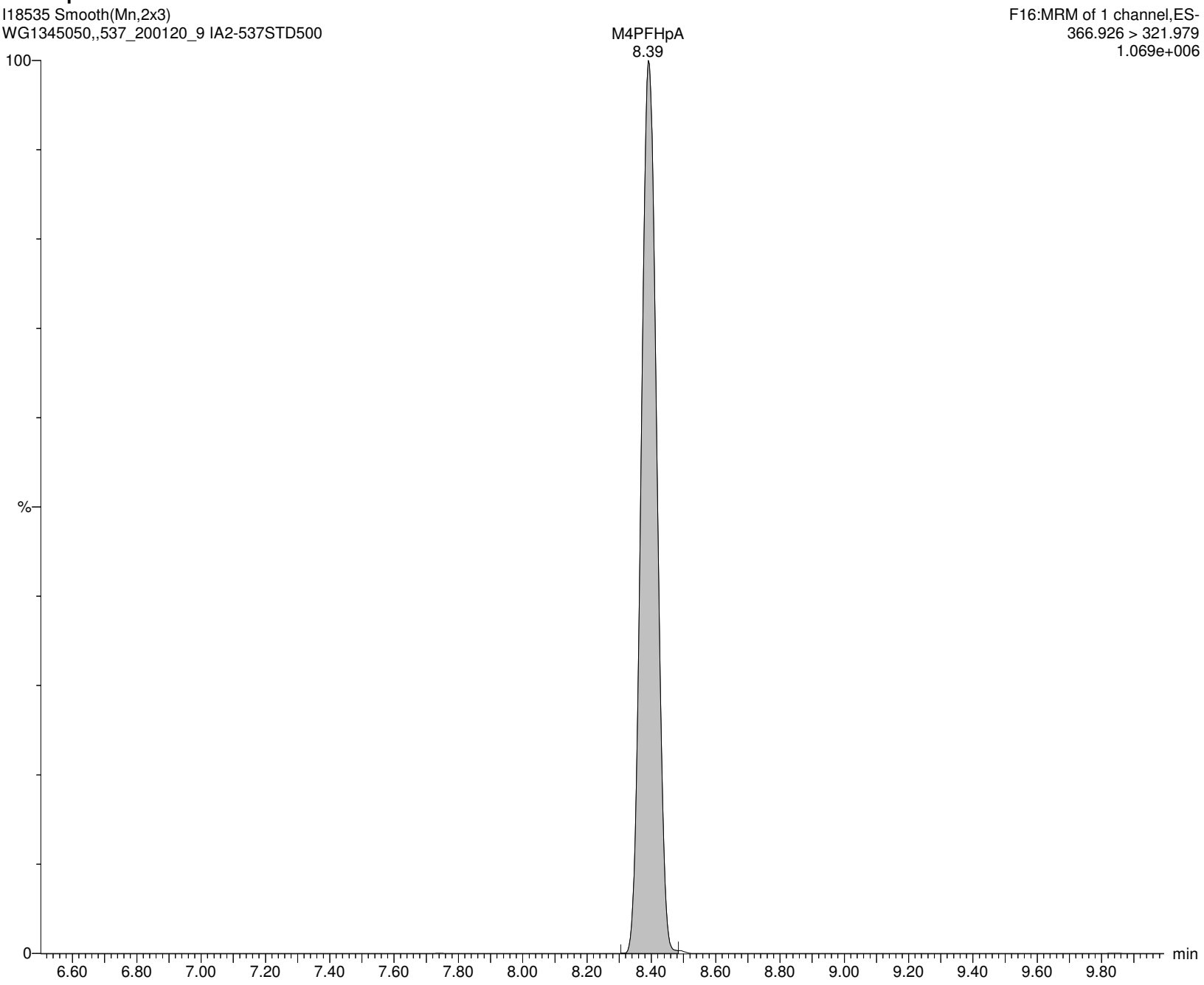

all concentration units in (ng/mL)

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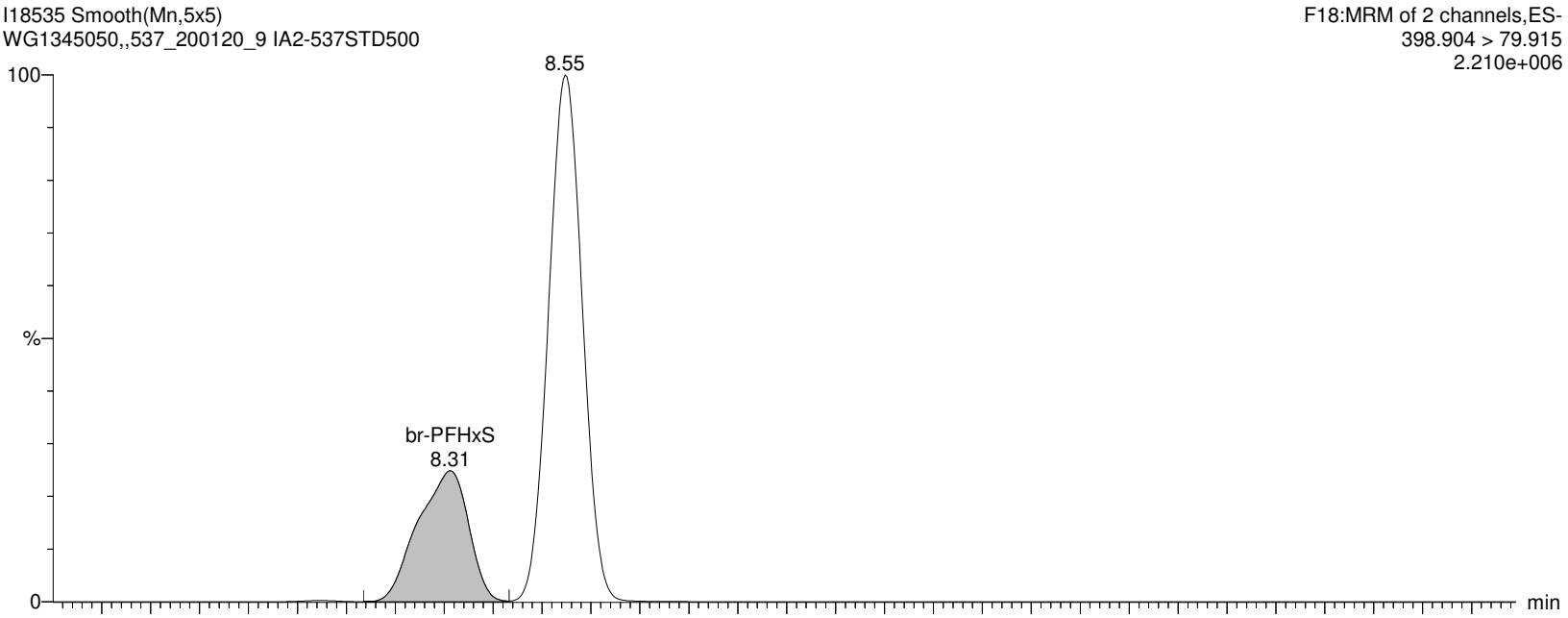

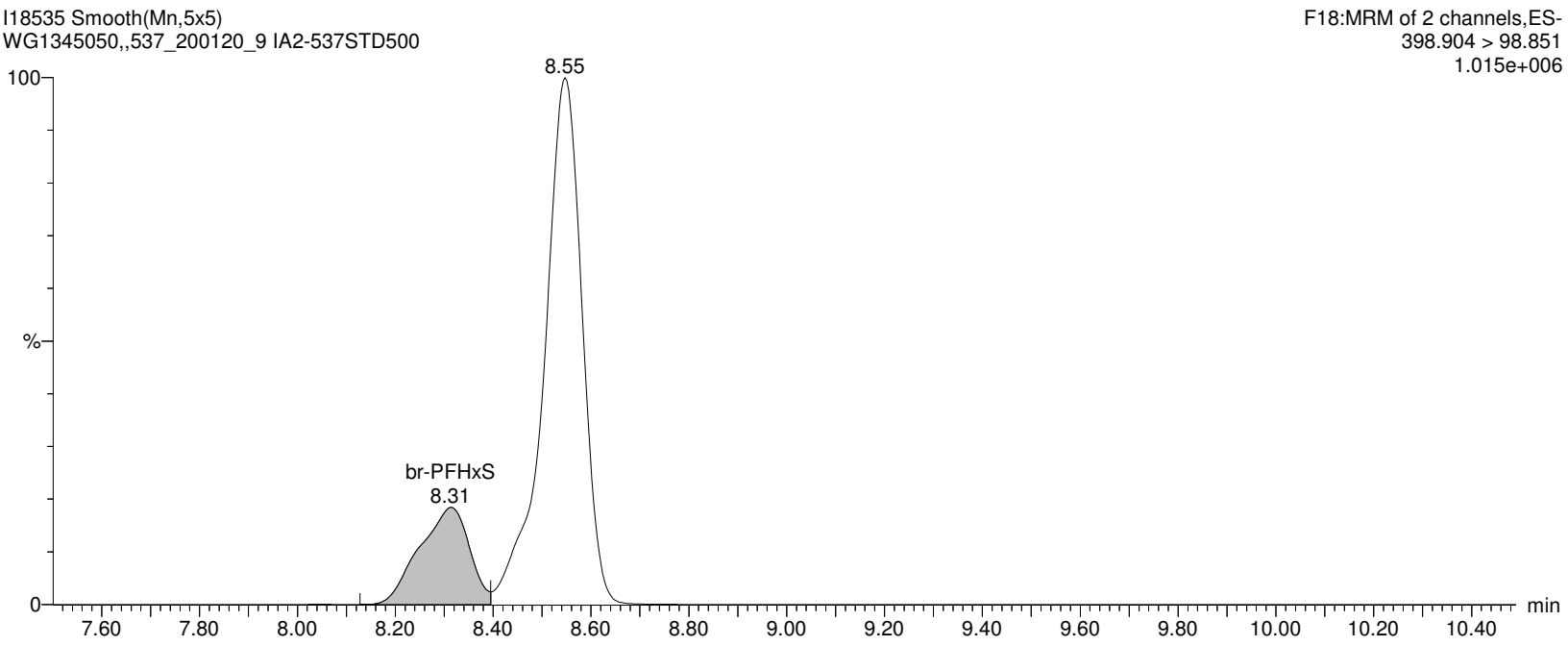

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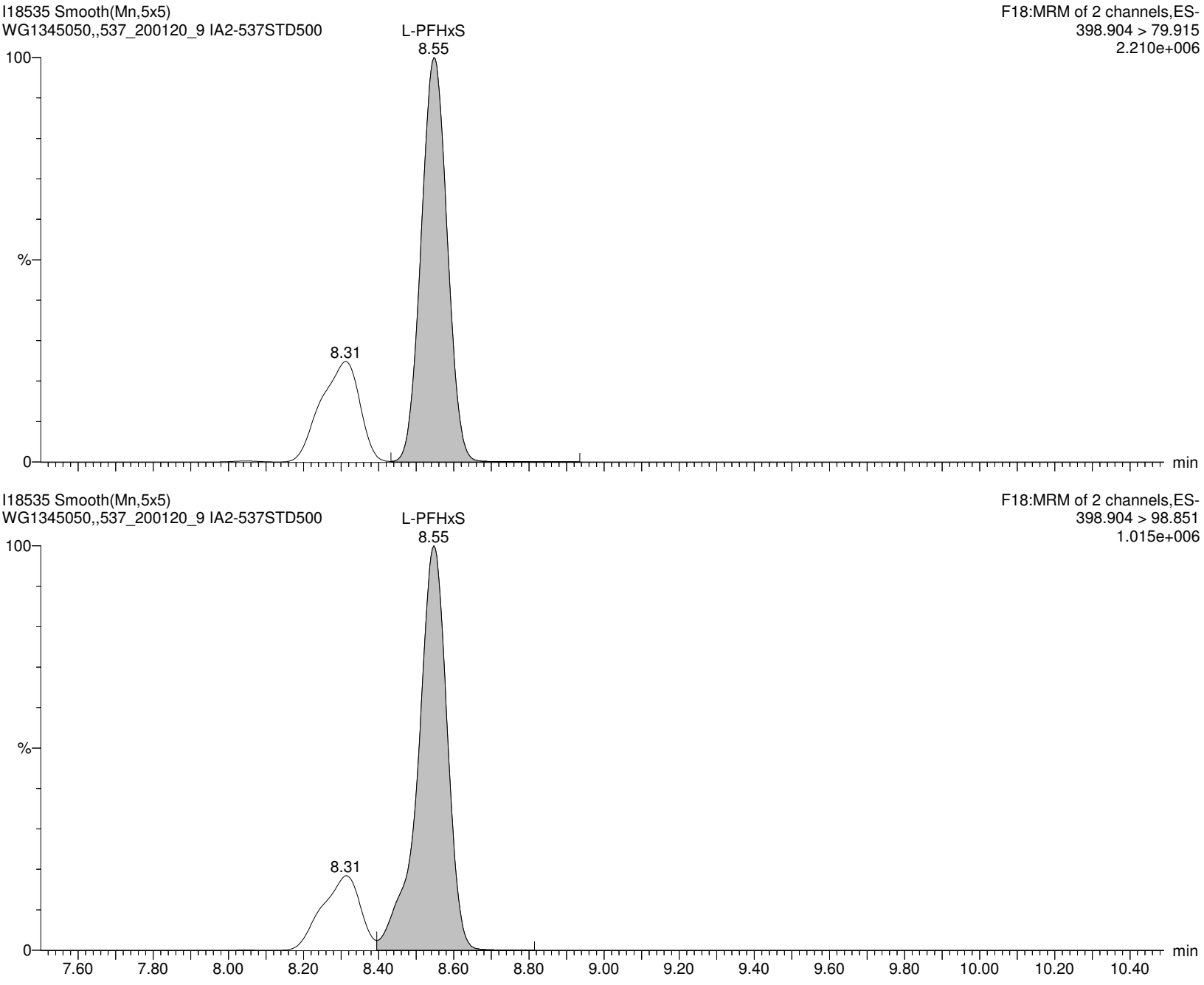

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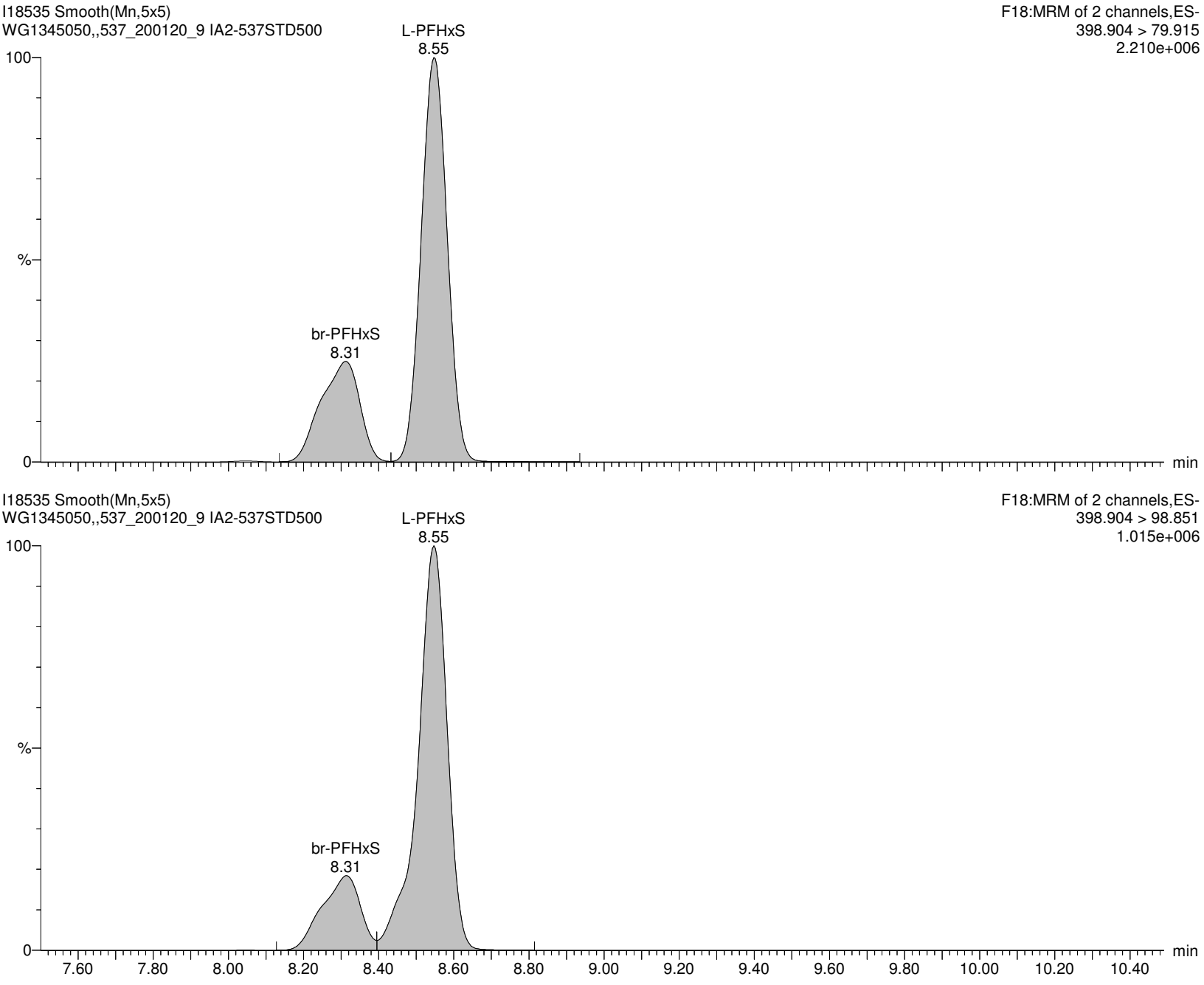

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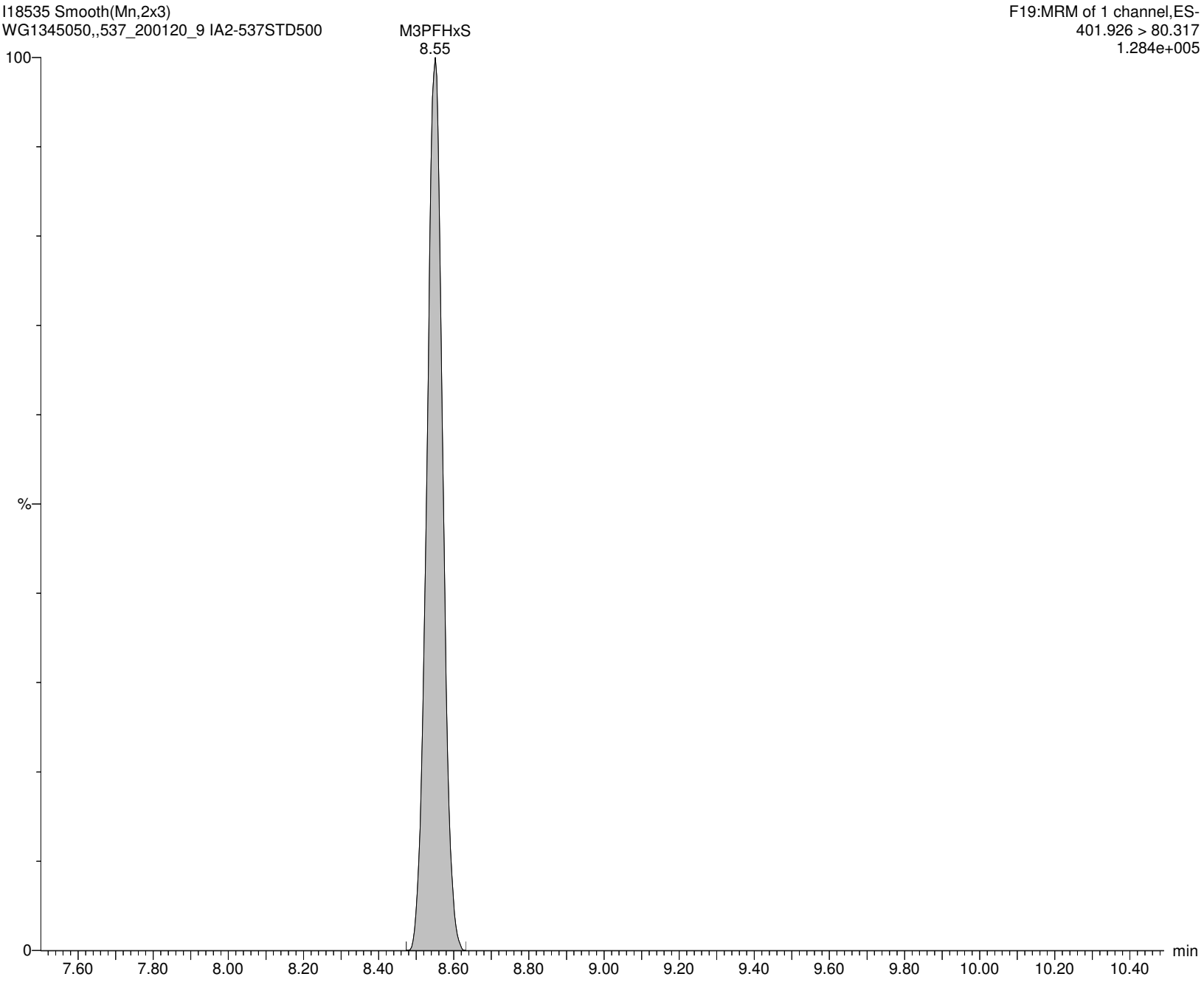

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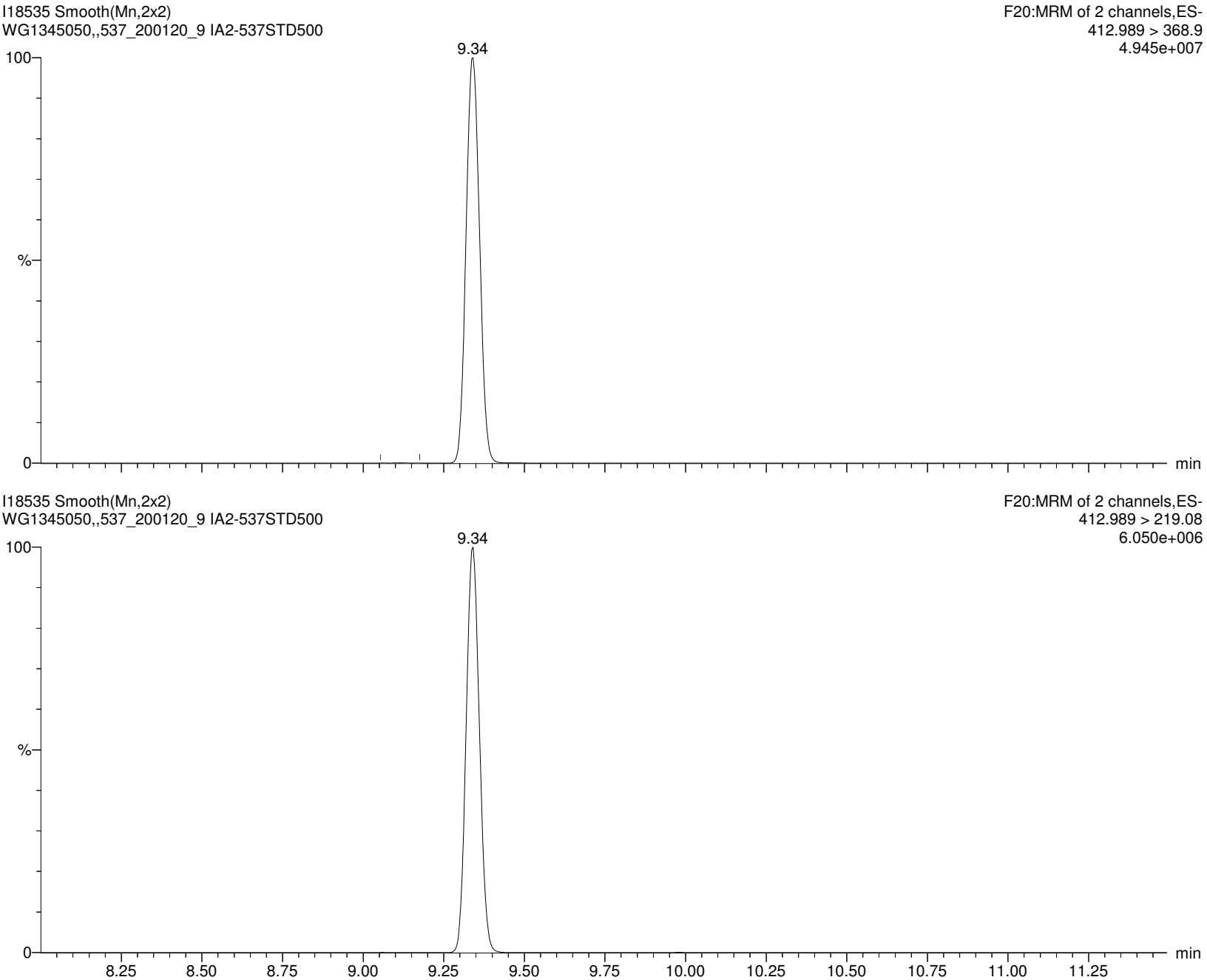

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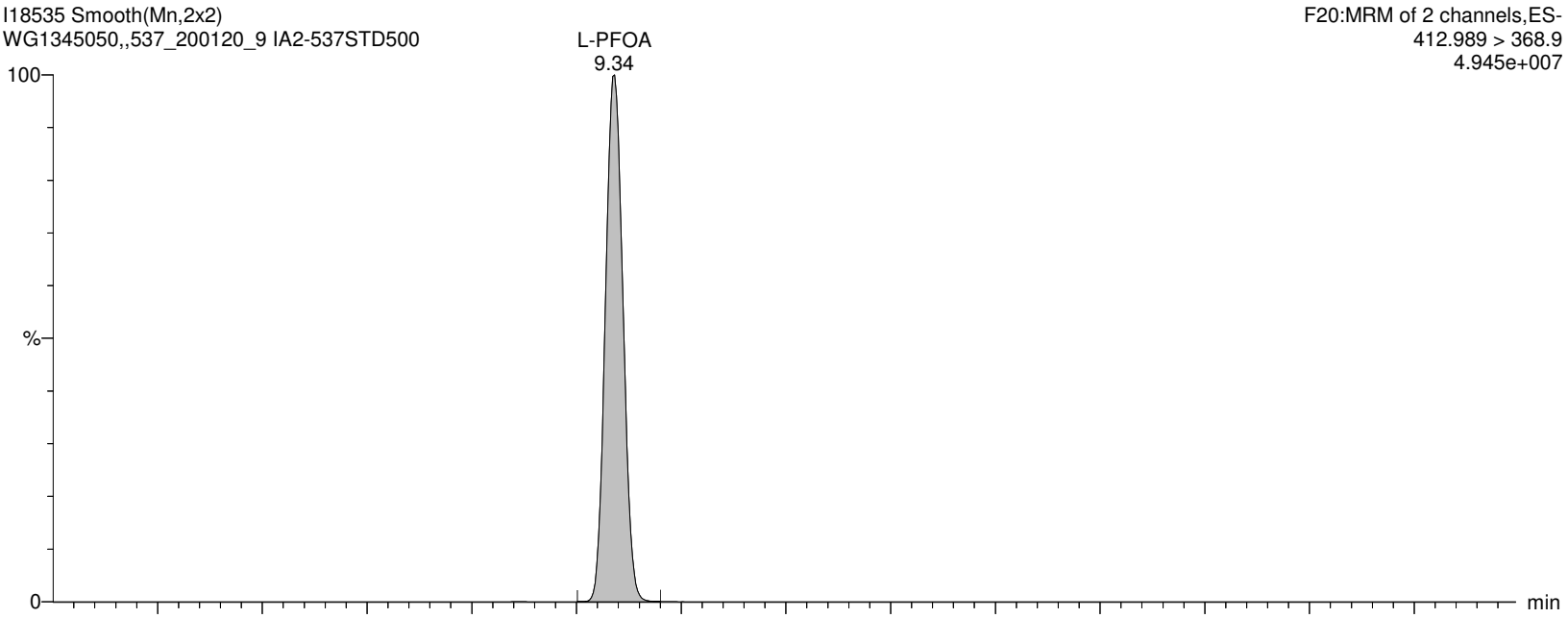
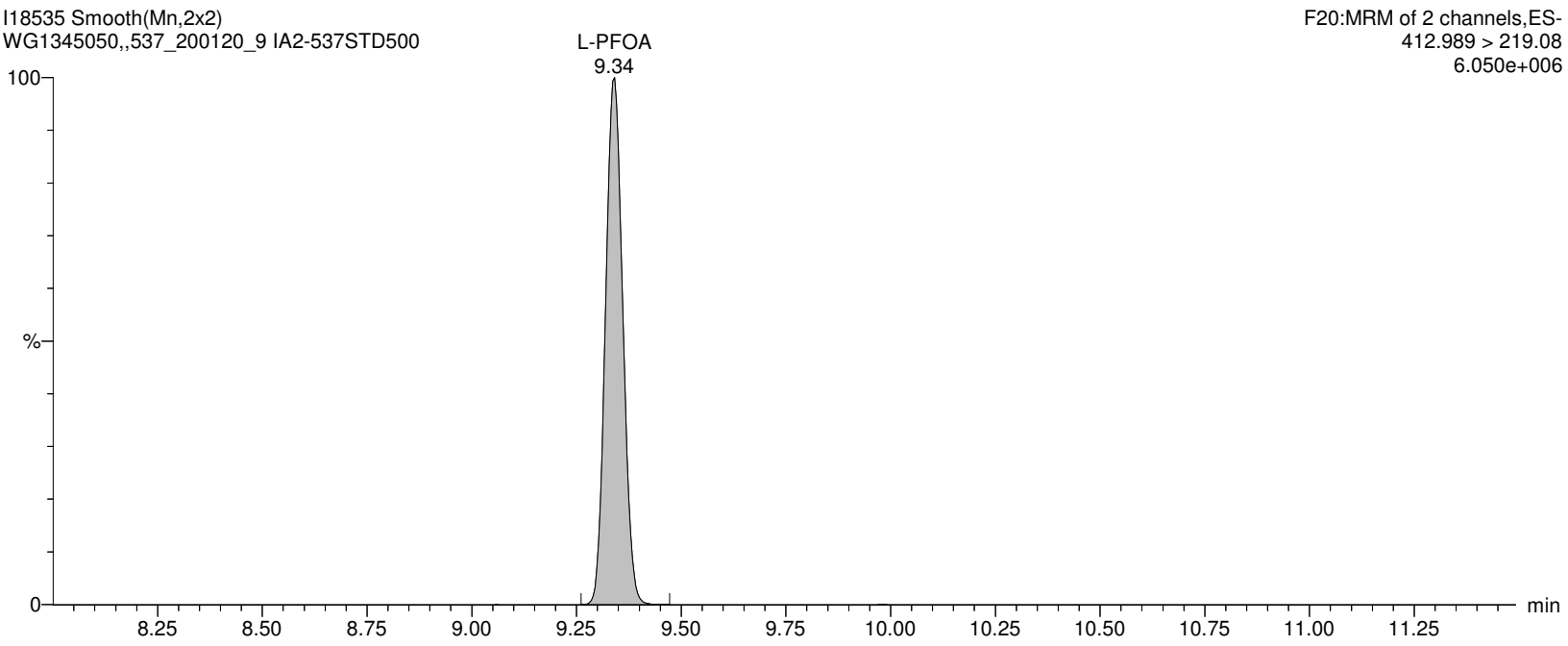
L-PFOA





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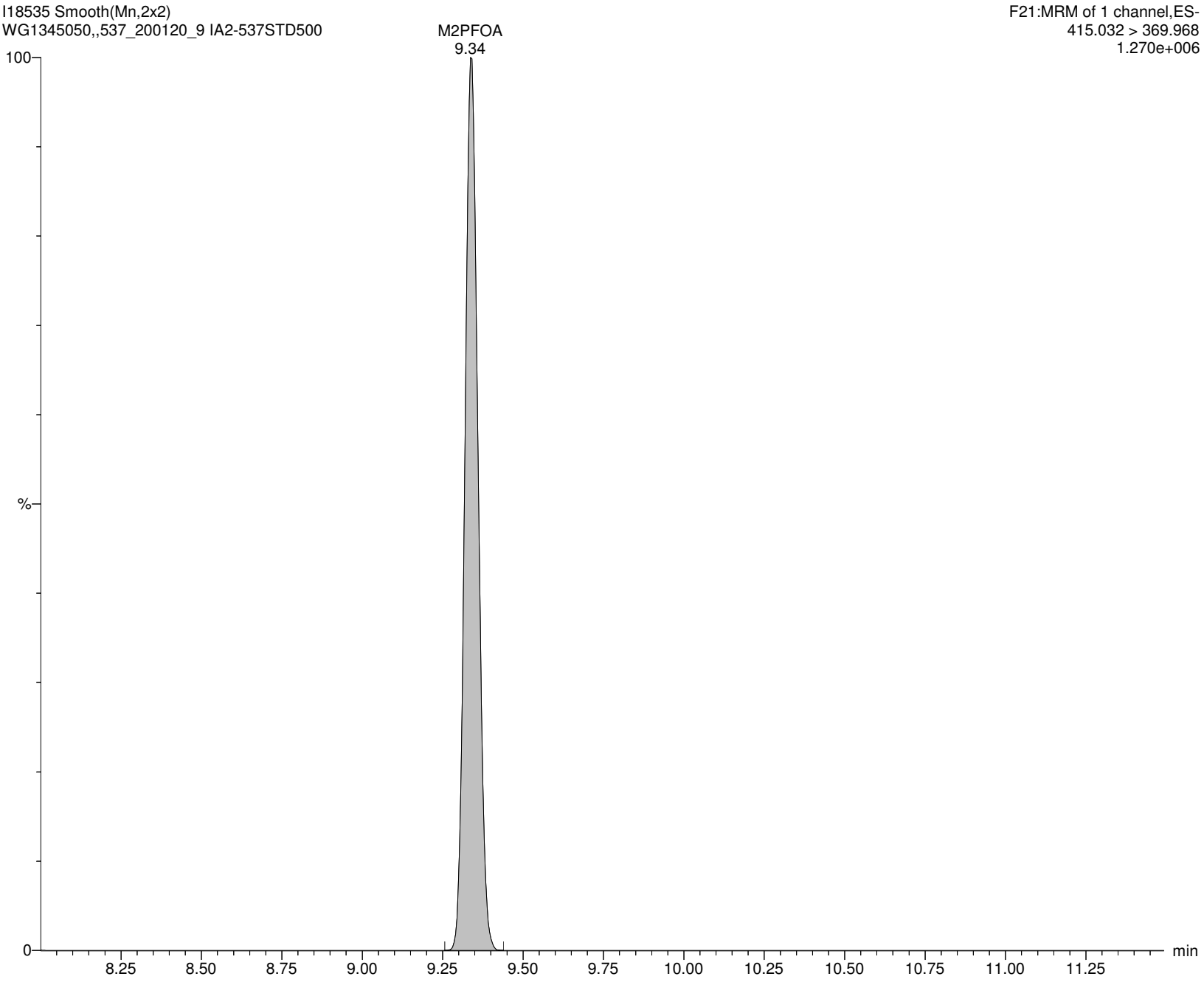

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:57 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:41:35
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User: LCMS01:SG
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEA0276
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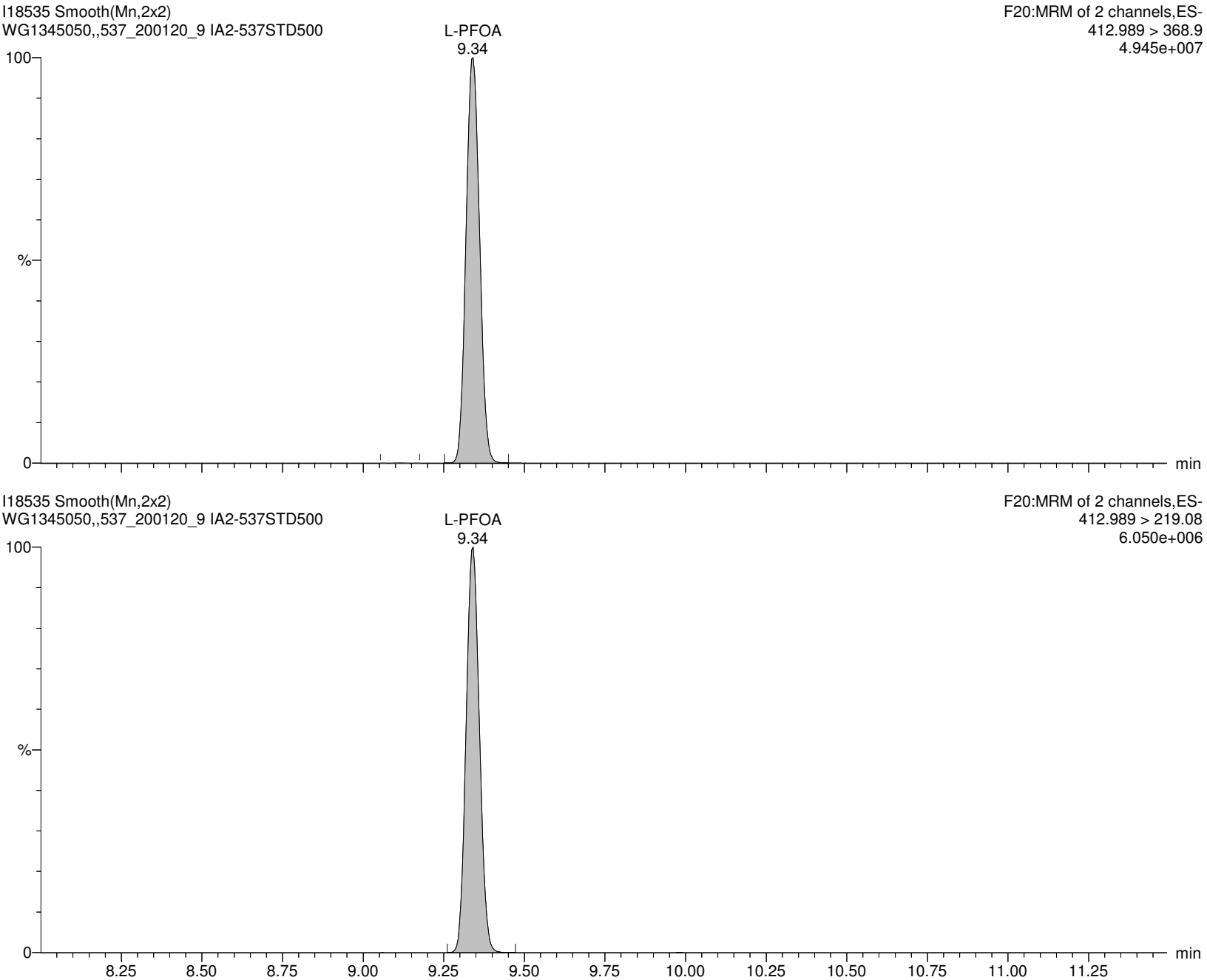

all concentration units in (ng/mL)

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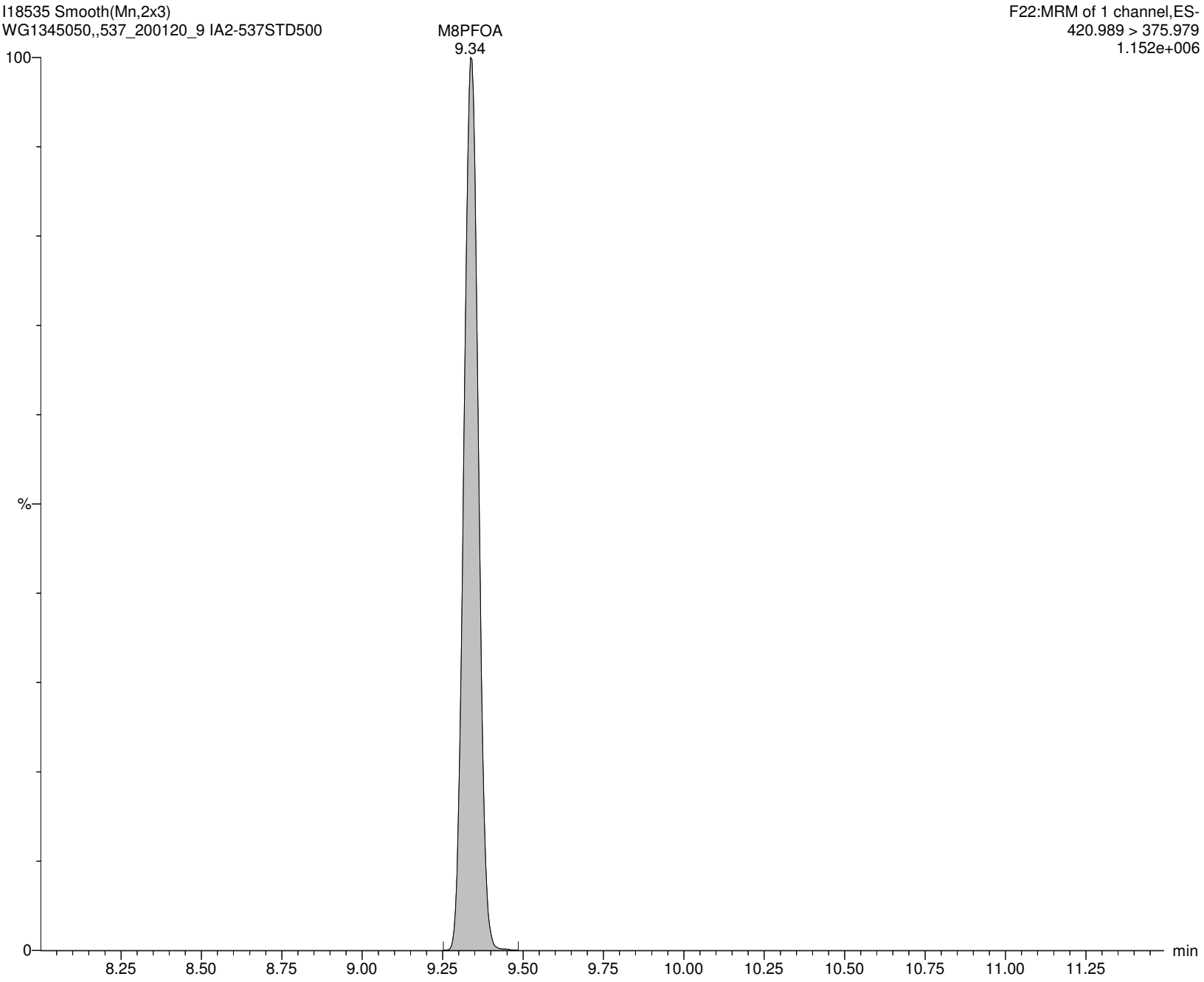

all concentration units in (ng/mL)

Alpha Analytical Inc.
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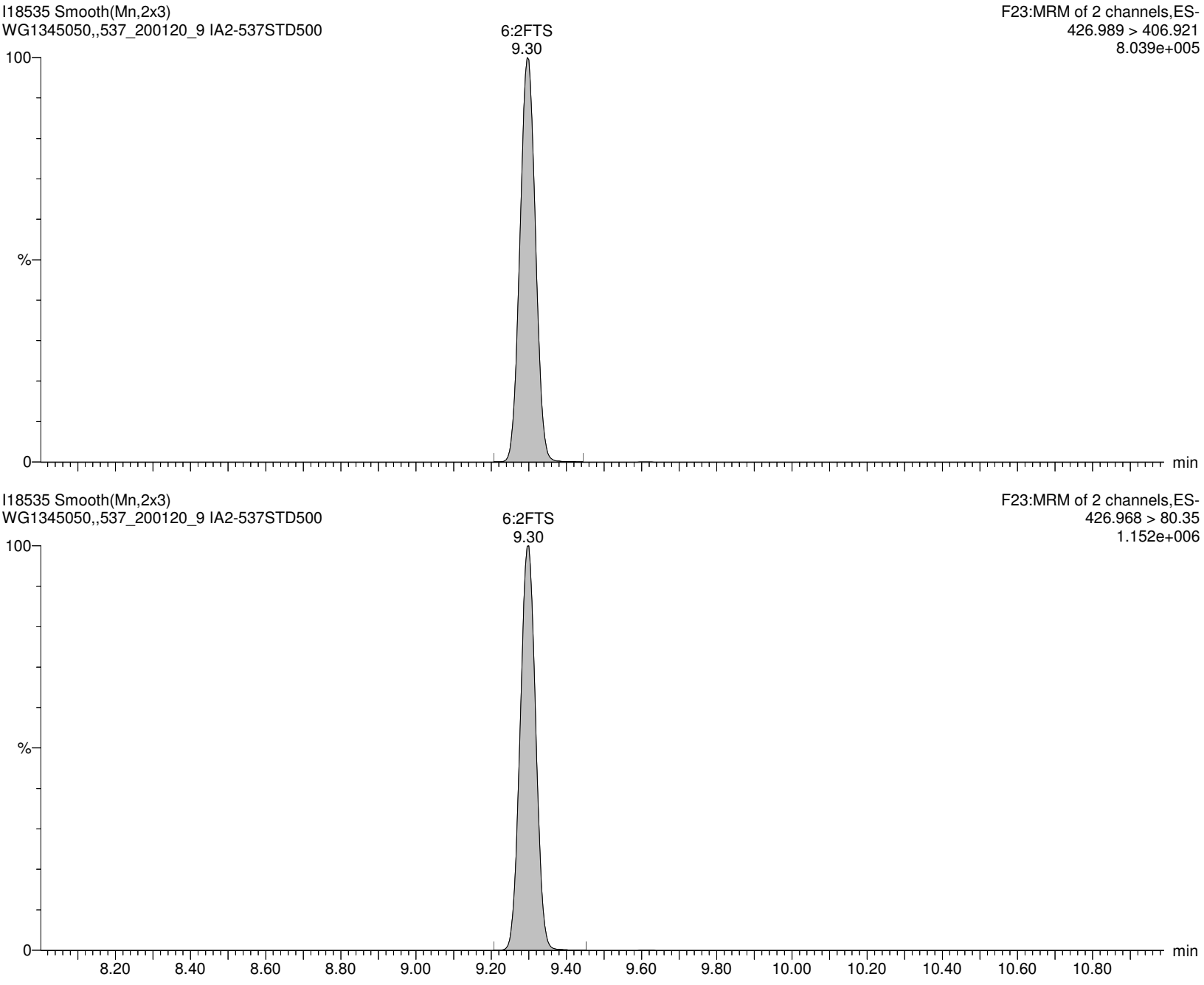

all concentration units in (ng/mL)

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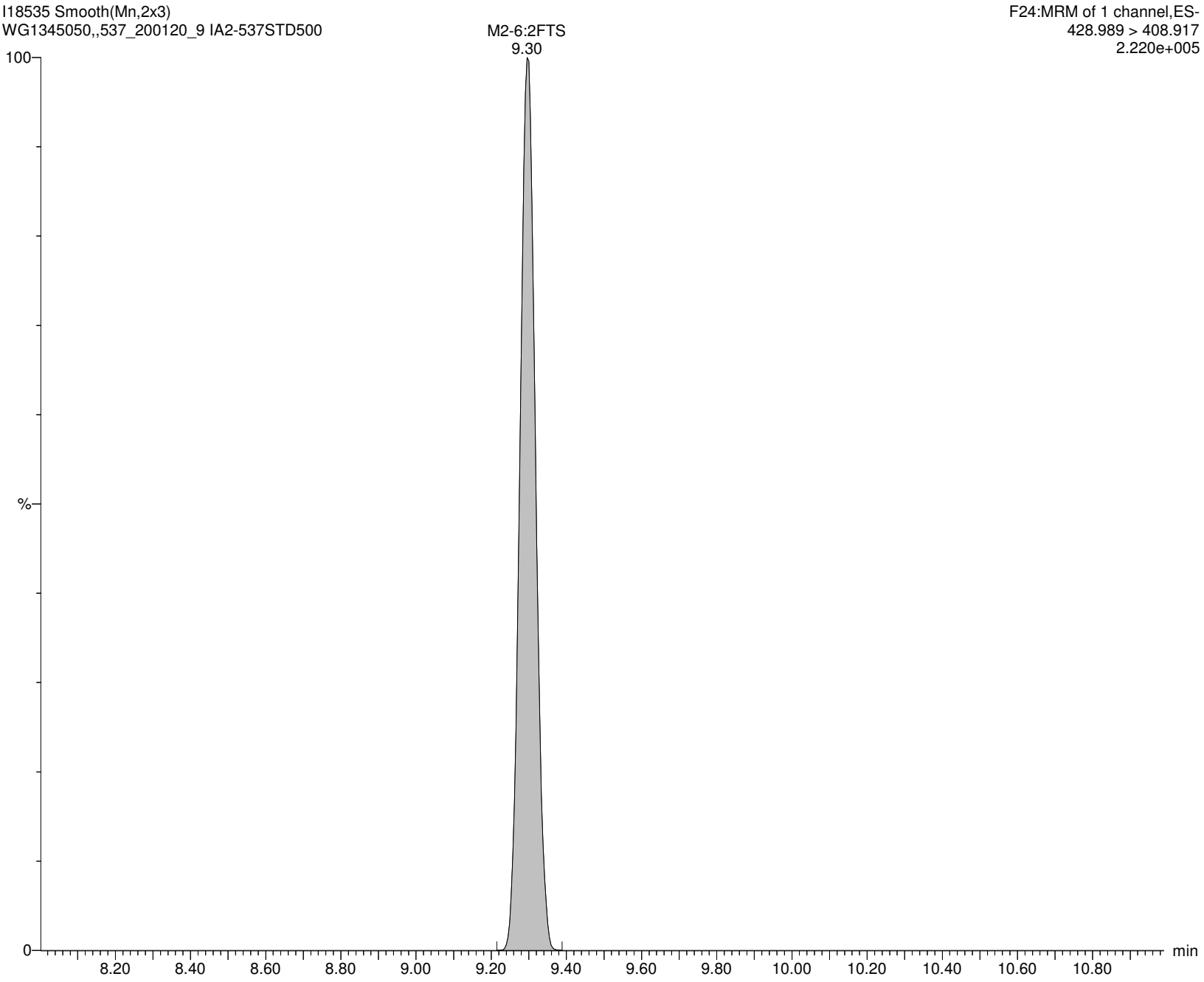

all concentration units in (ng/mL)

Alpha Analytical Inc.
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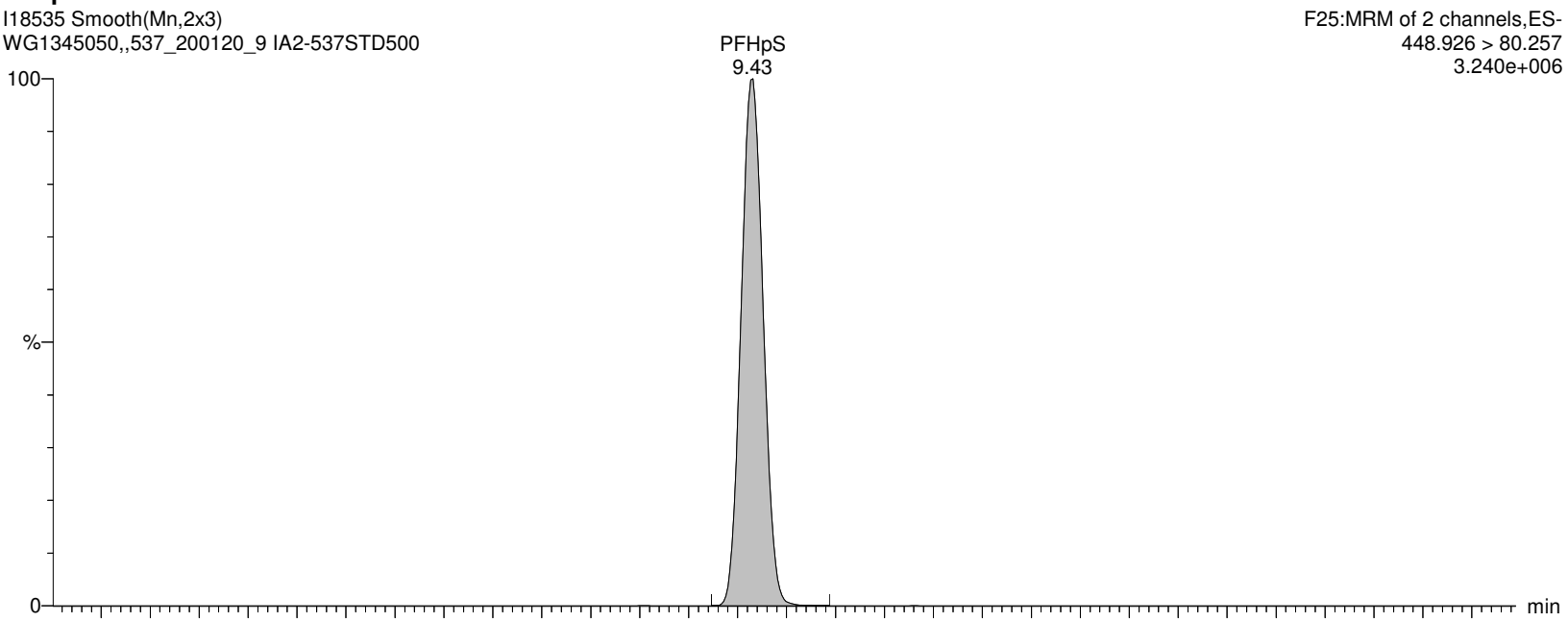

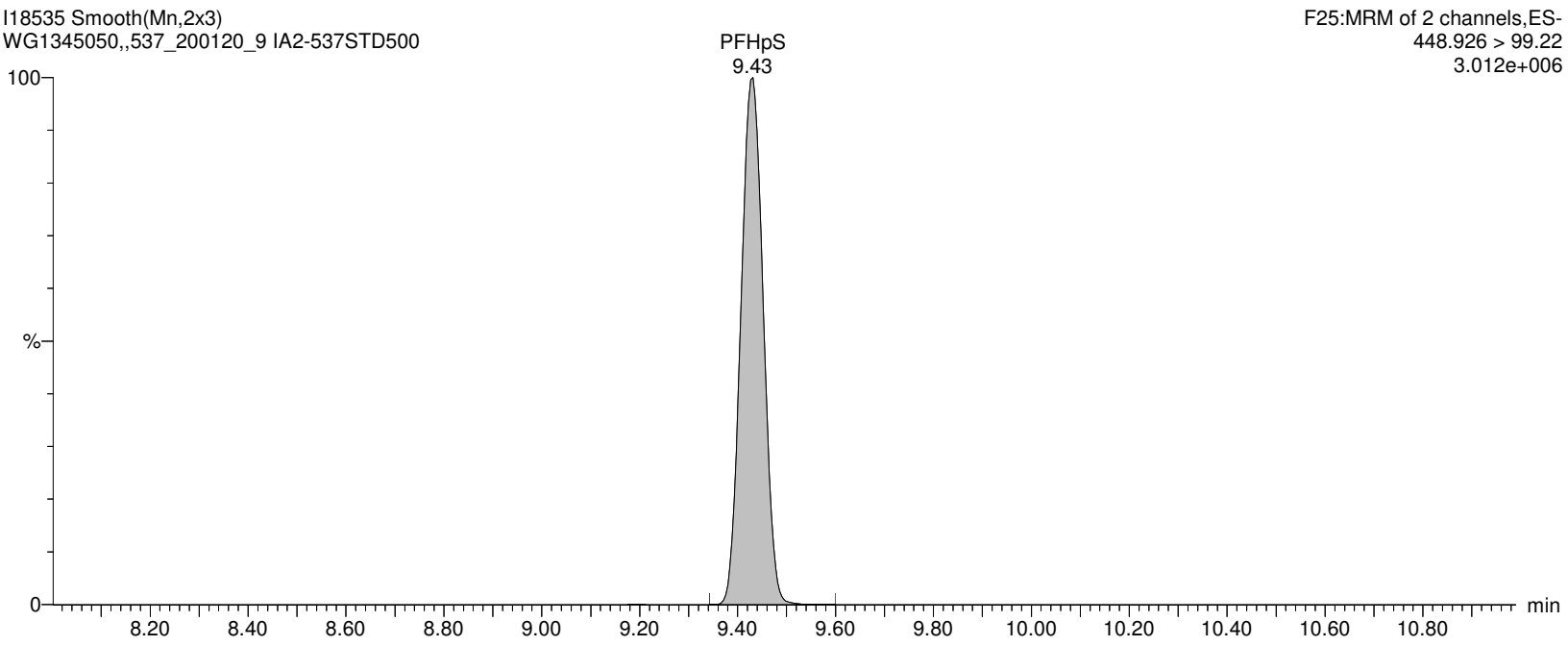

all concentration units in (ng/mL)

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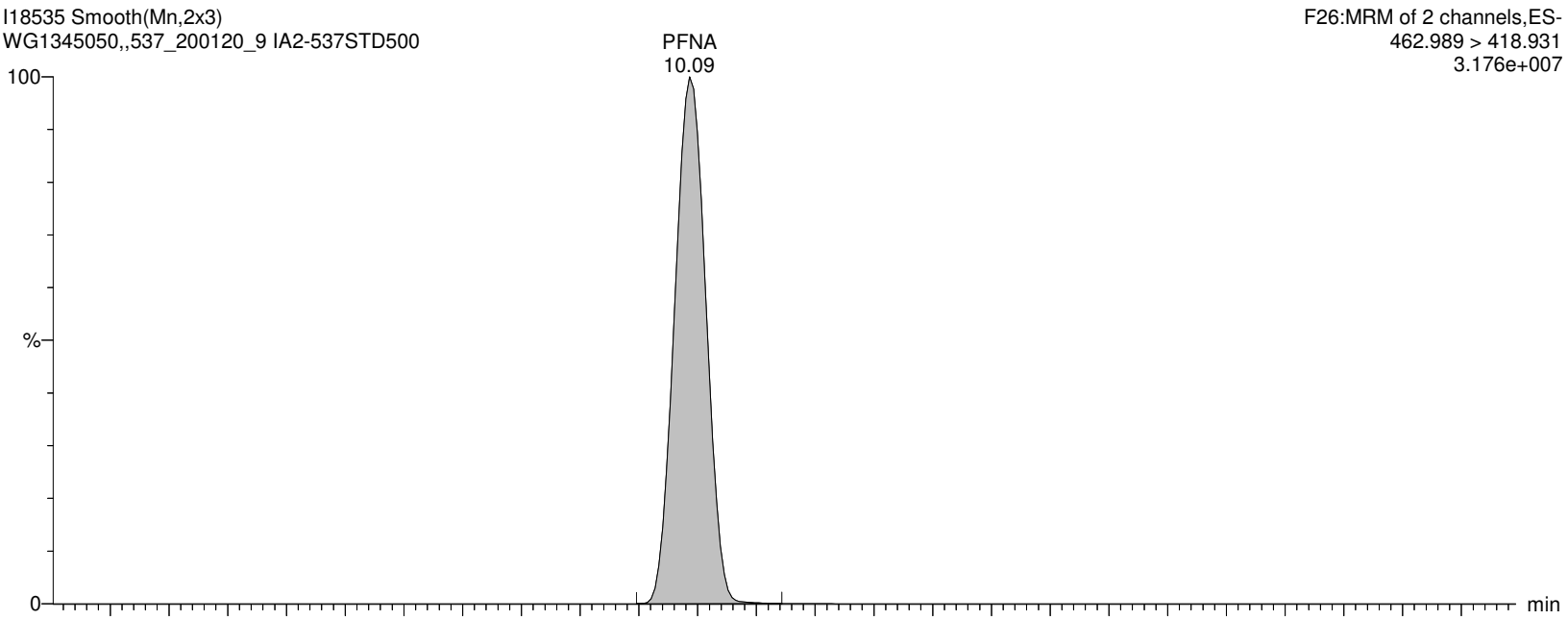

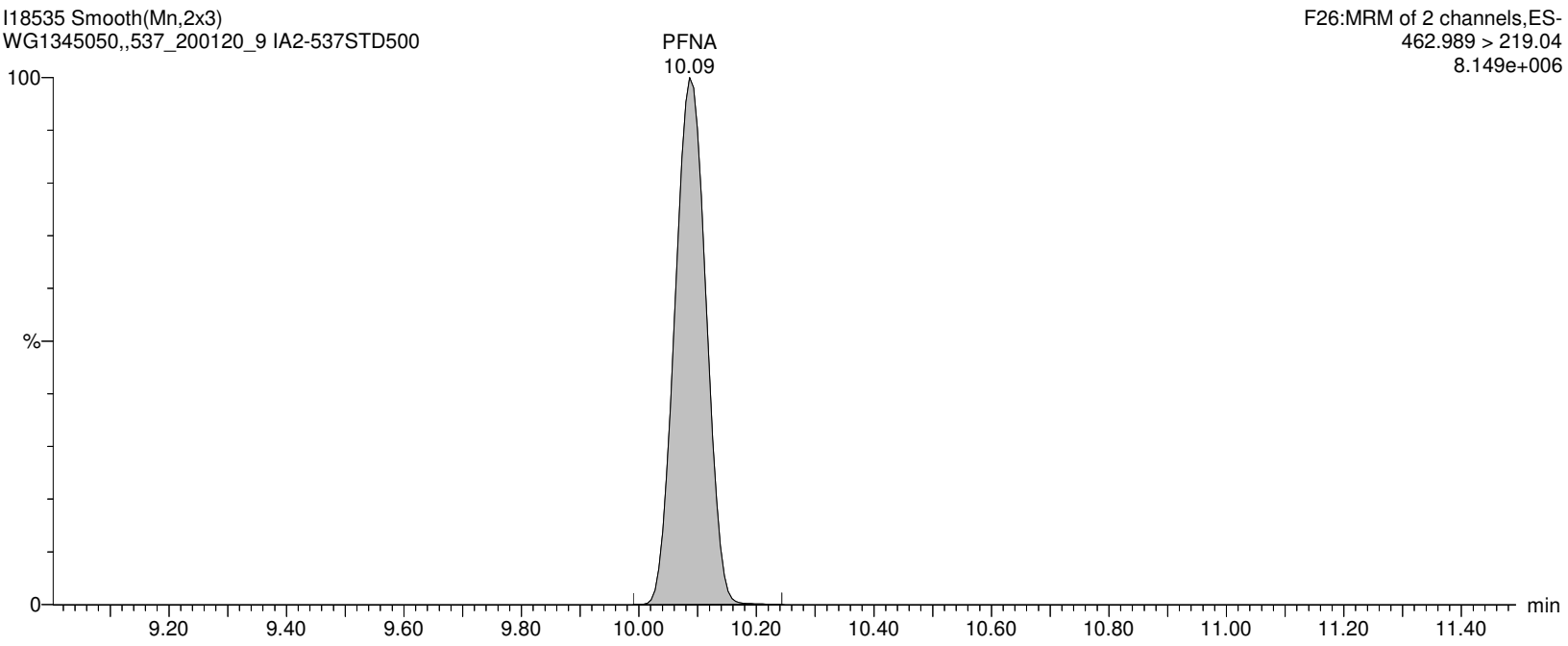

all concentration units in (ng/mL)

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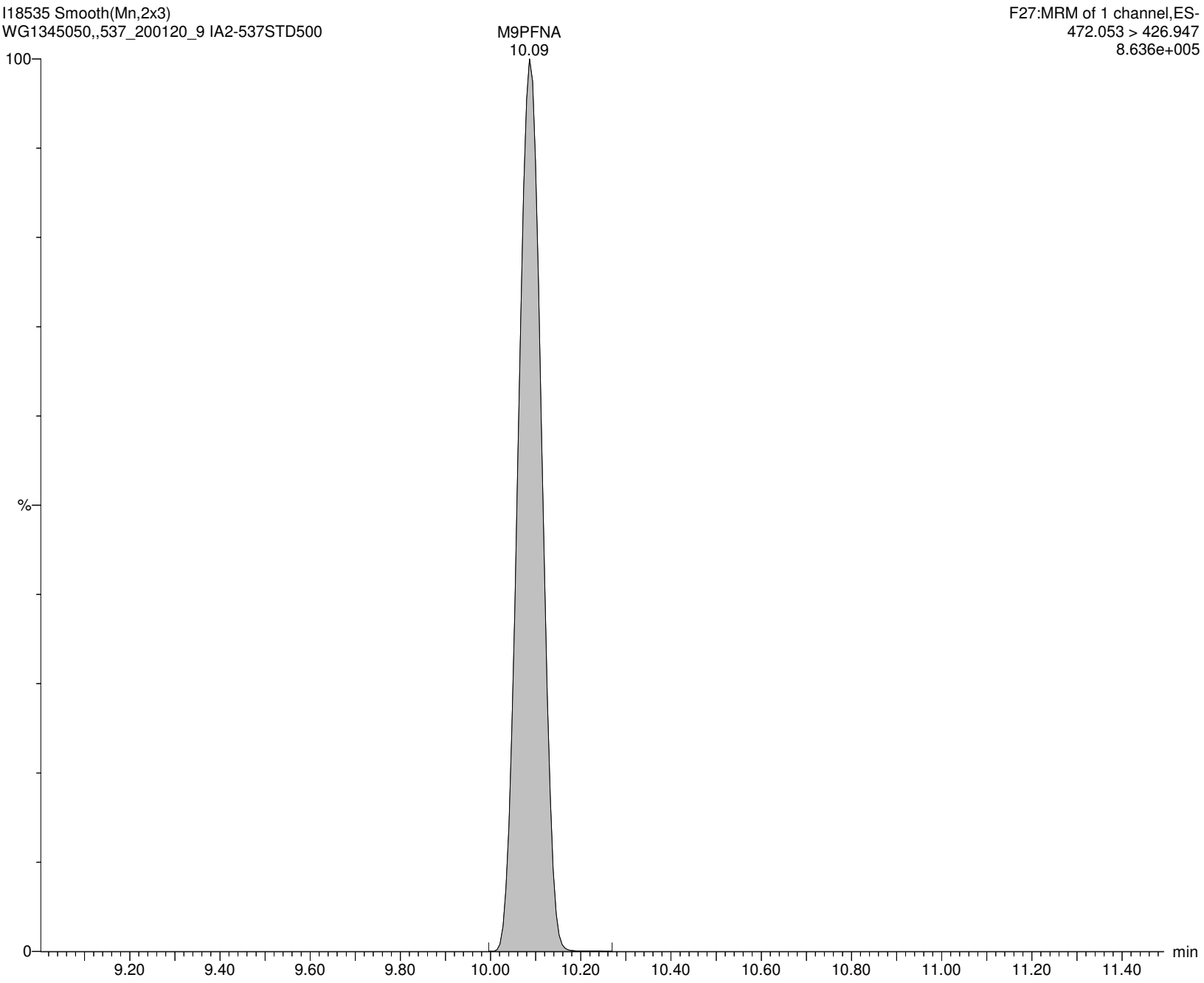

all concentration units in (ng/mL)

Alpha Analytical Inc.
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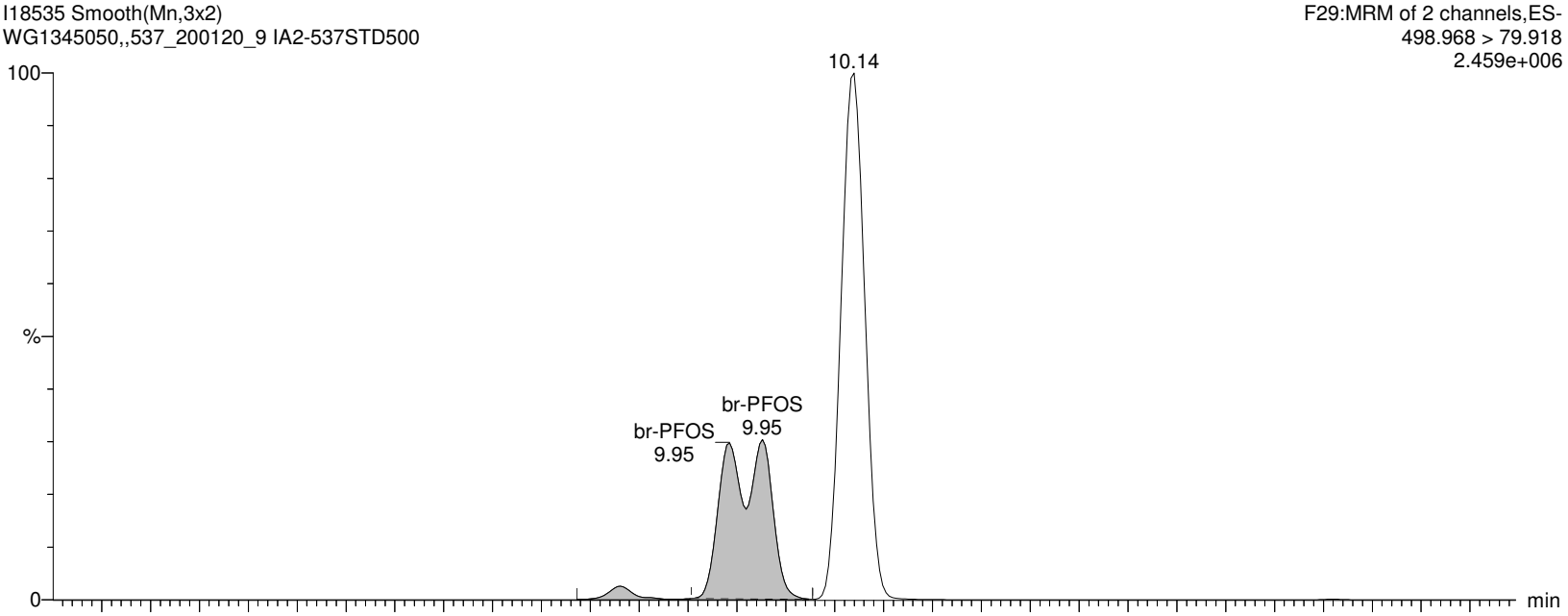

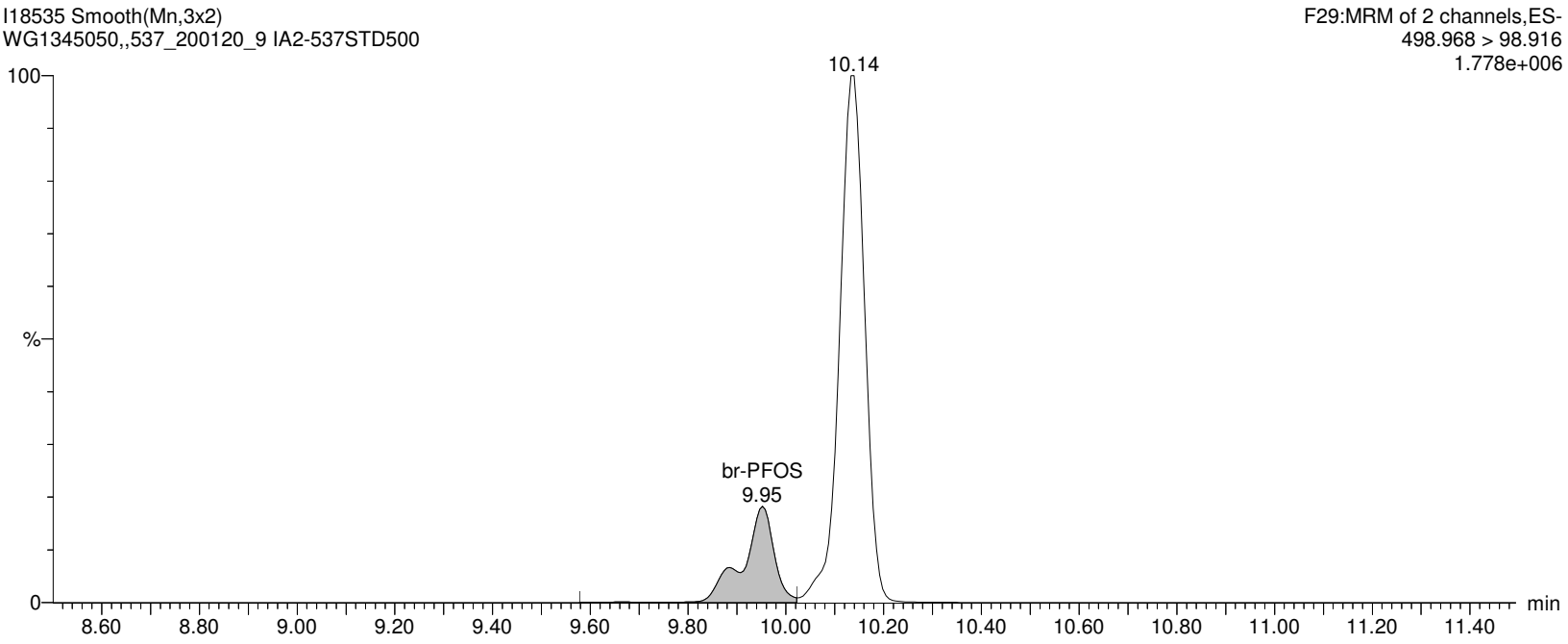

all concentration units in (ng/mL)

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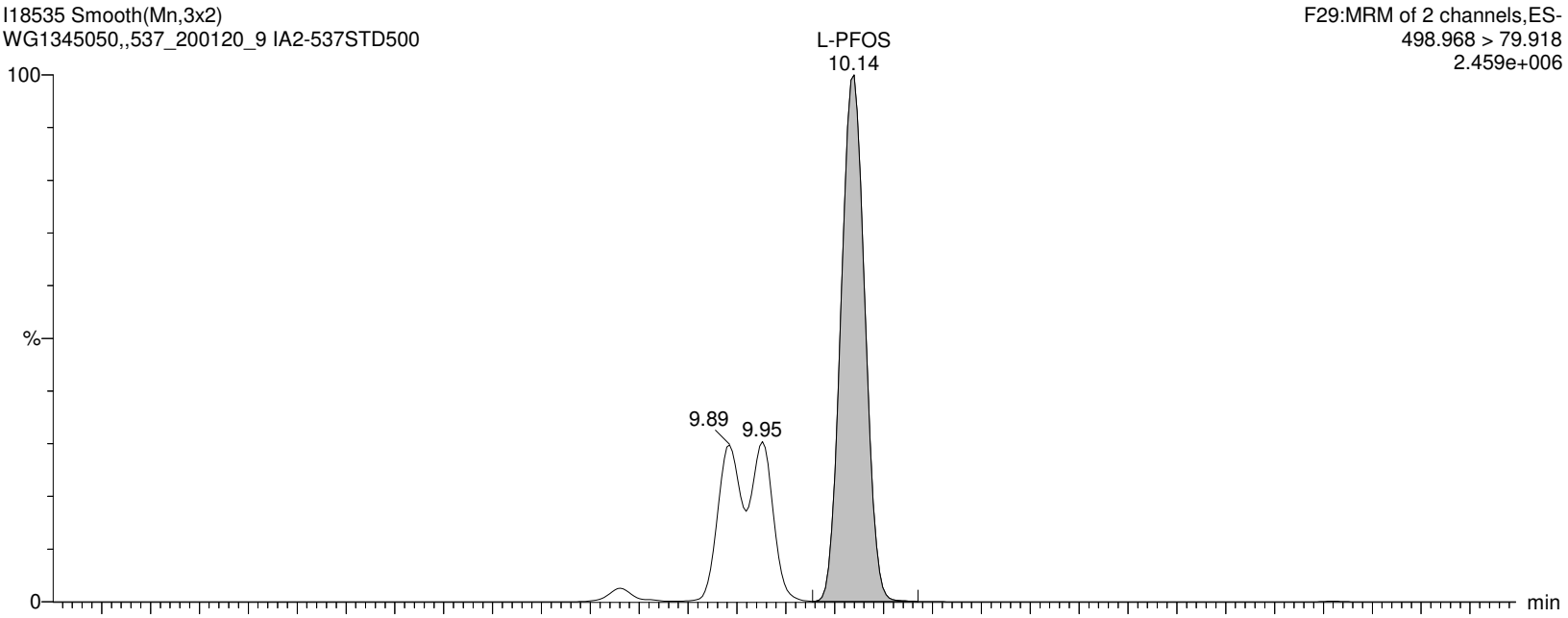

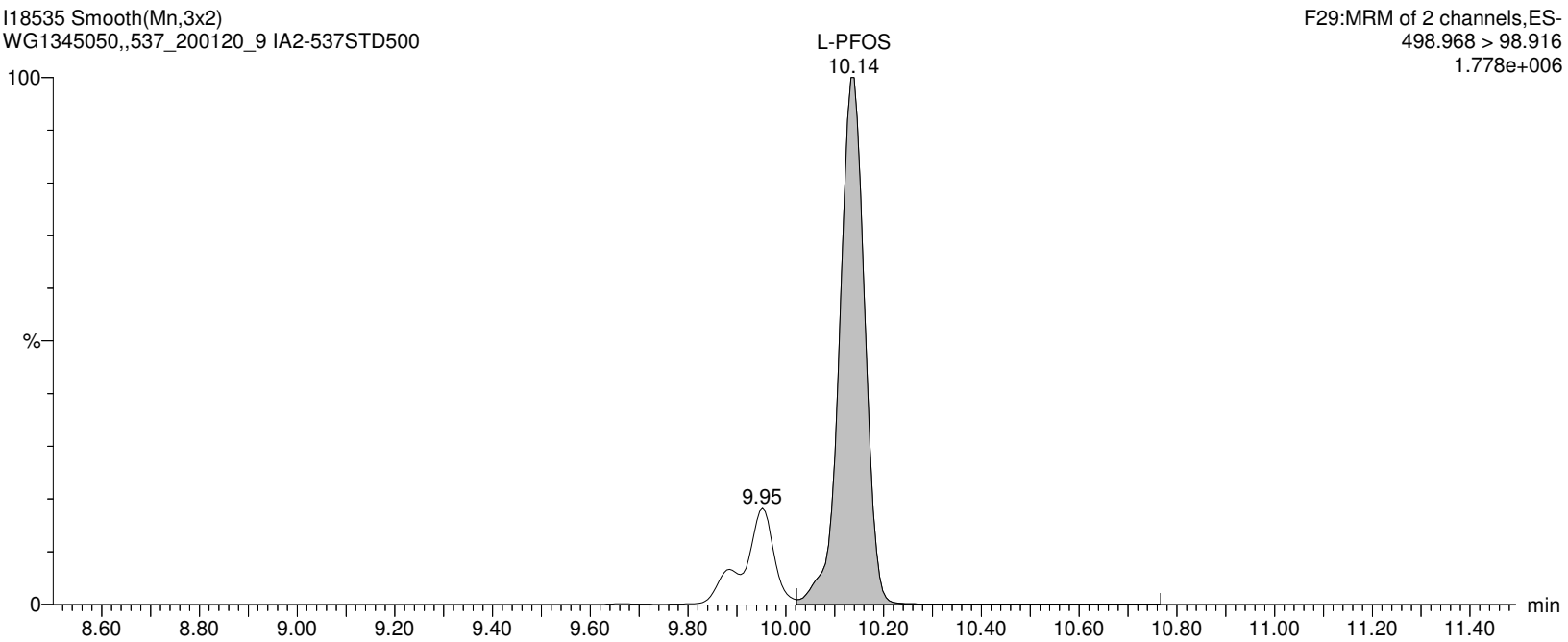

all concentration units in (ng/mL)

Alpha Analytical Inc.
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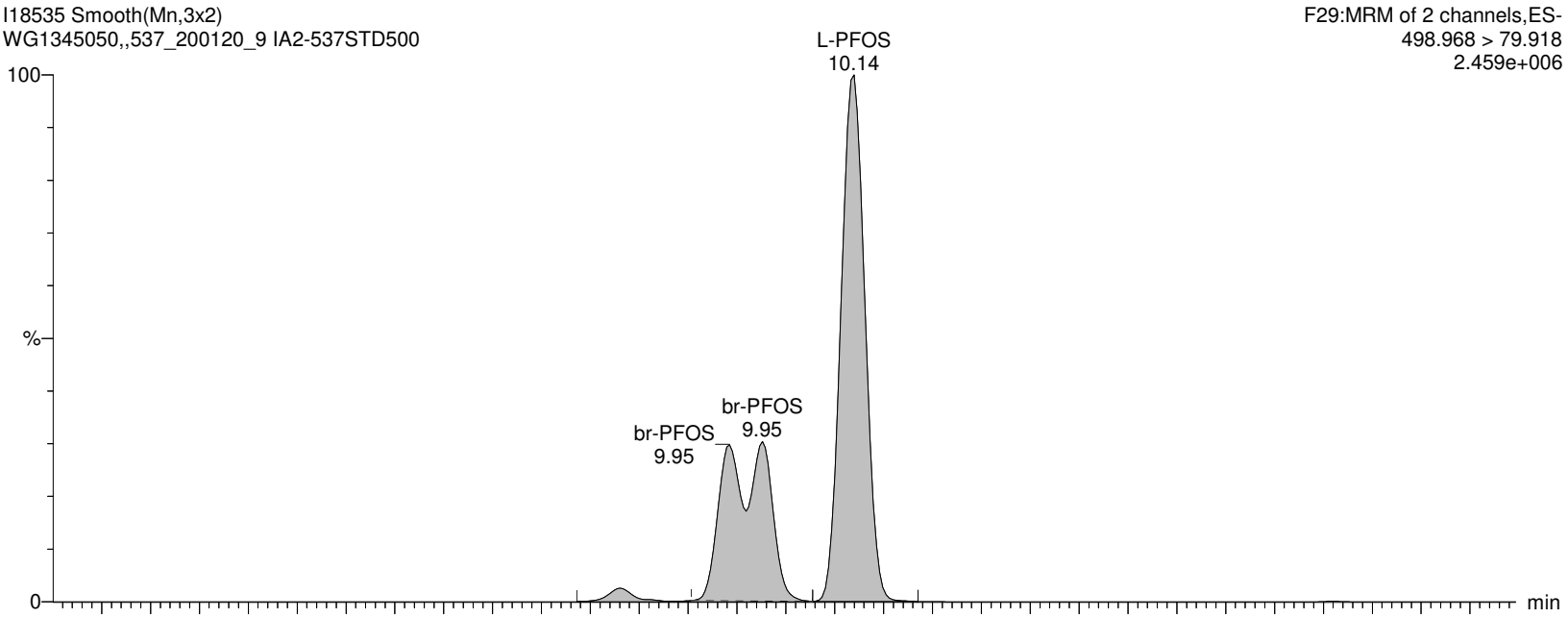

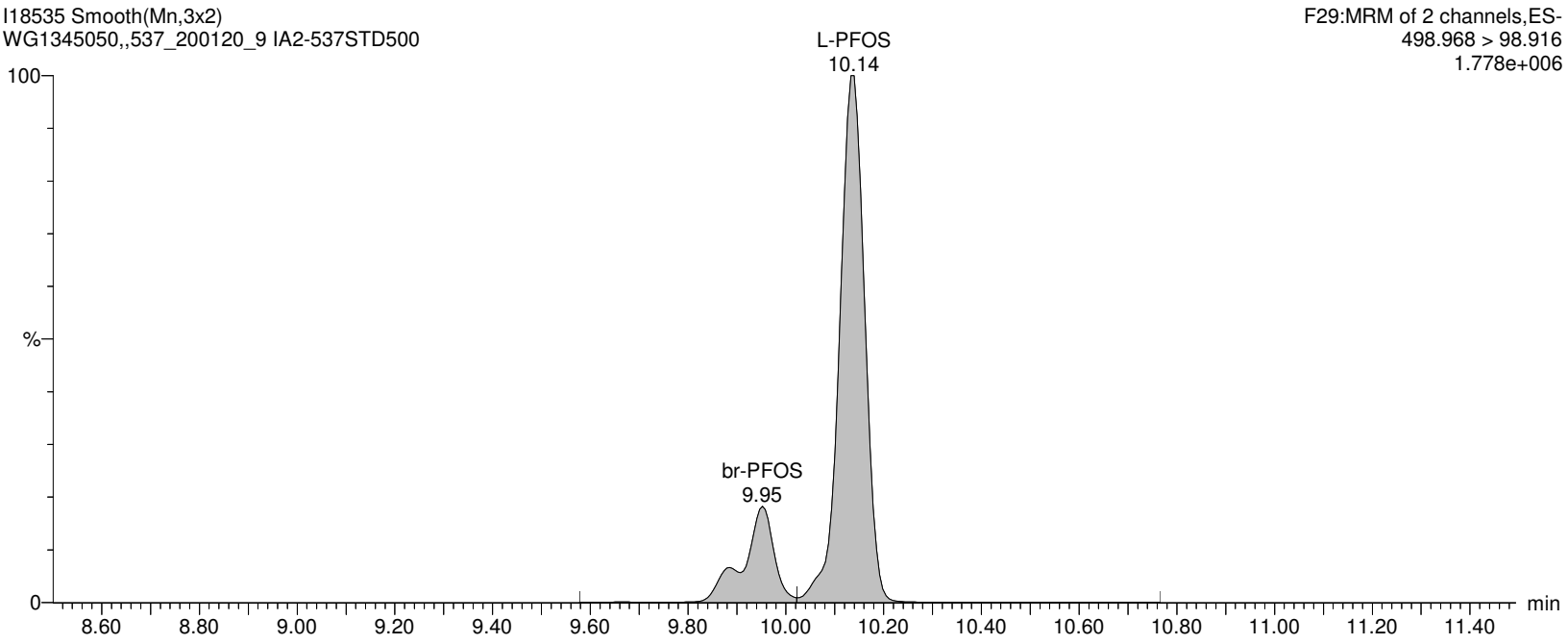

all concentration units in (ng/mL)

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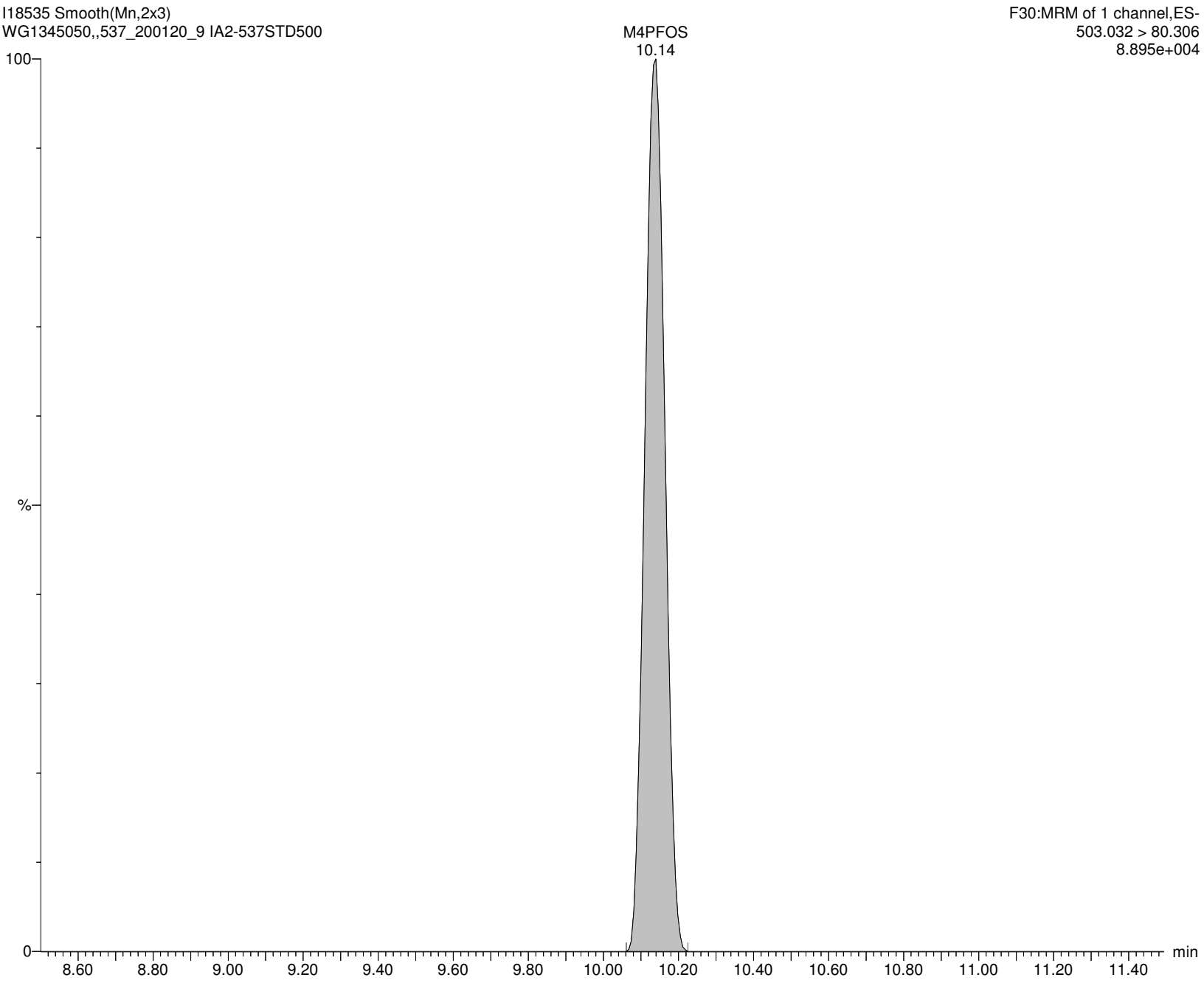

all concentration units in (ng/mL)

Alpha Analytical Inc.
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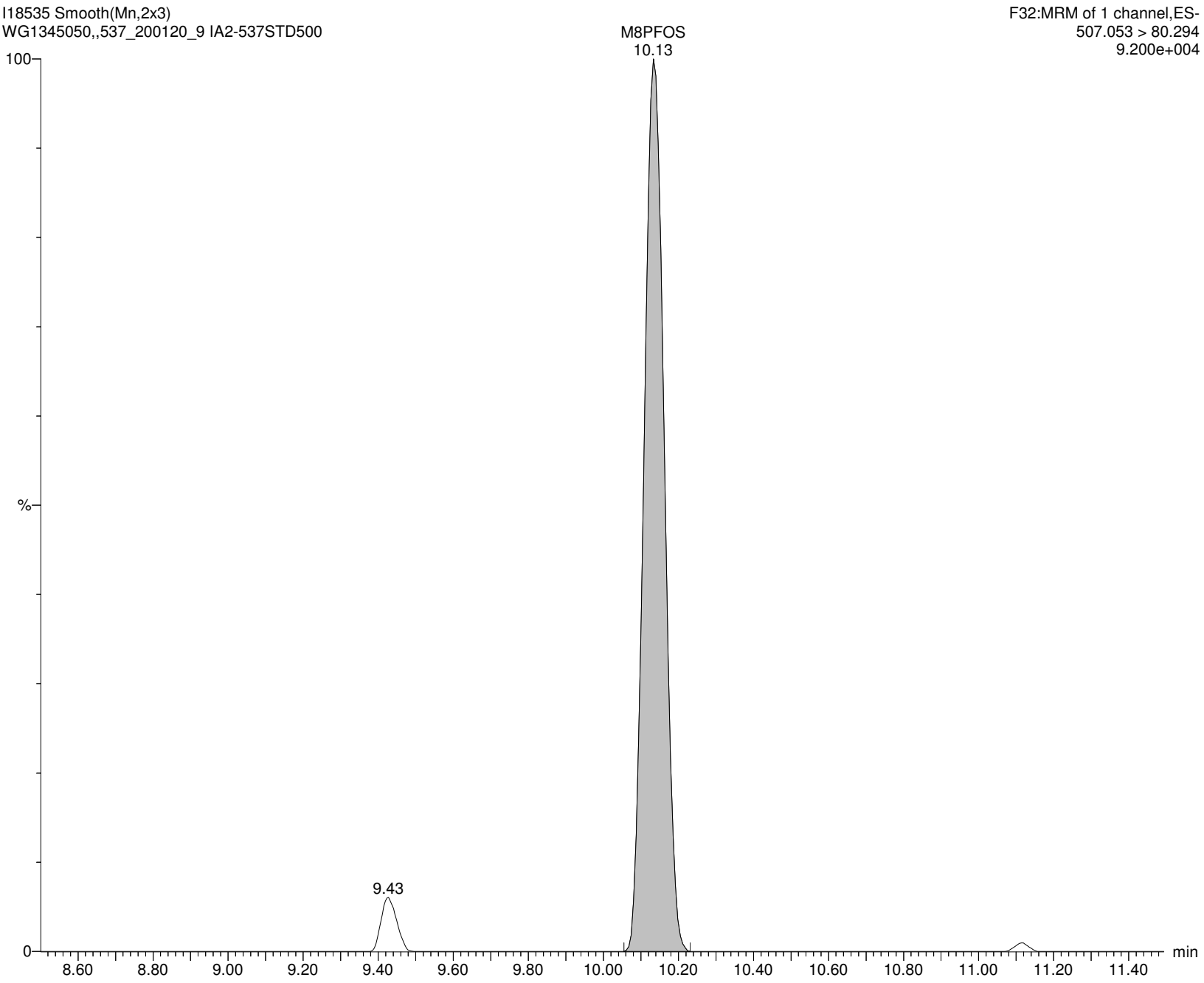

all concentration units in (ng/mL)

Alpha Analytical Inc.
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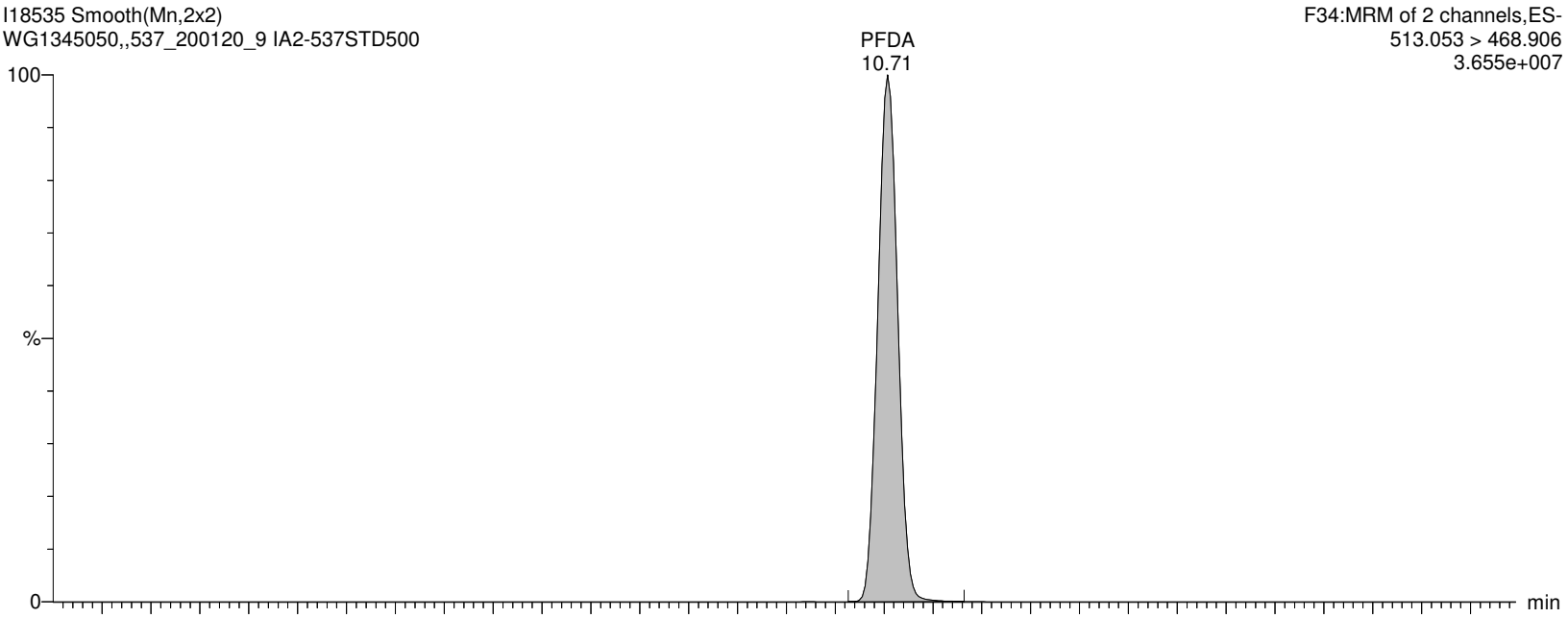

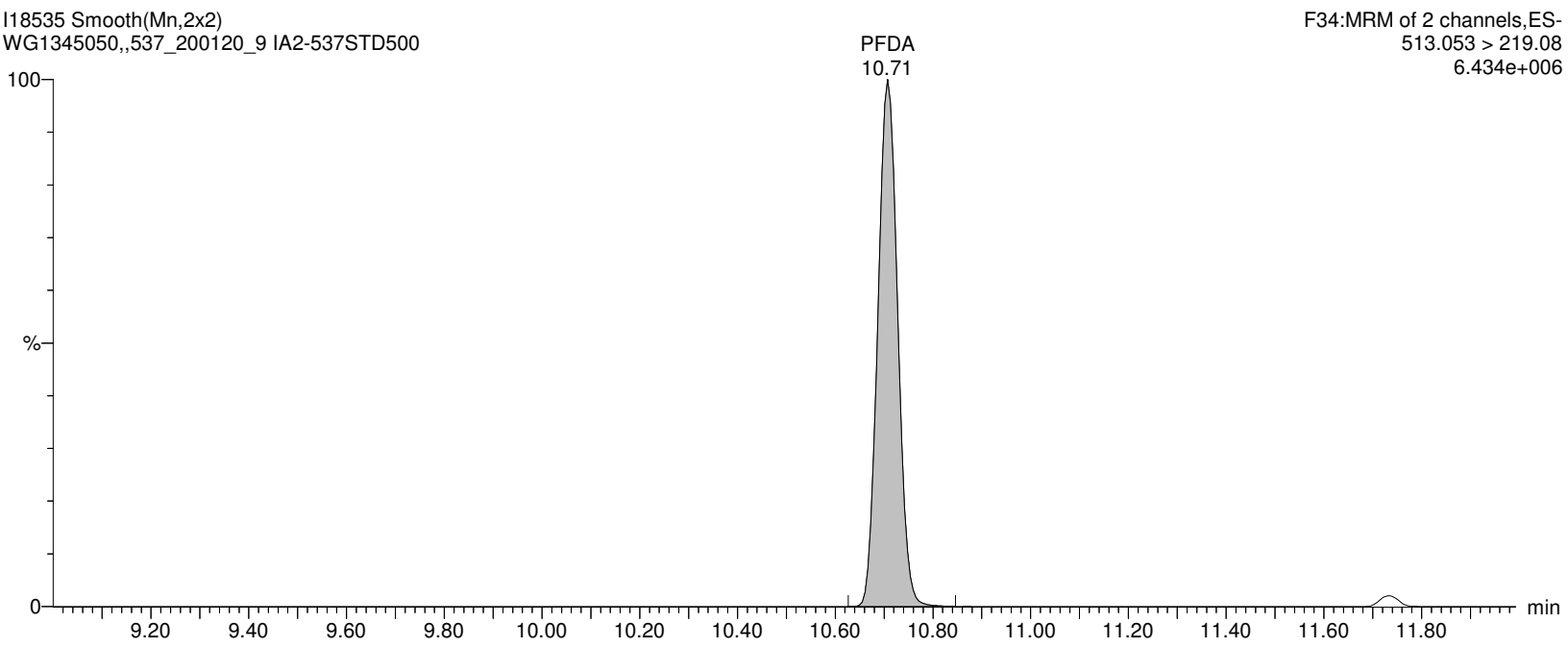

all concentration units in (ng/mL)

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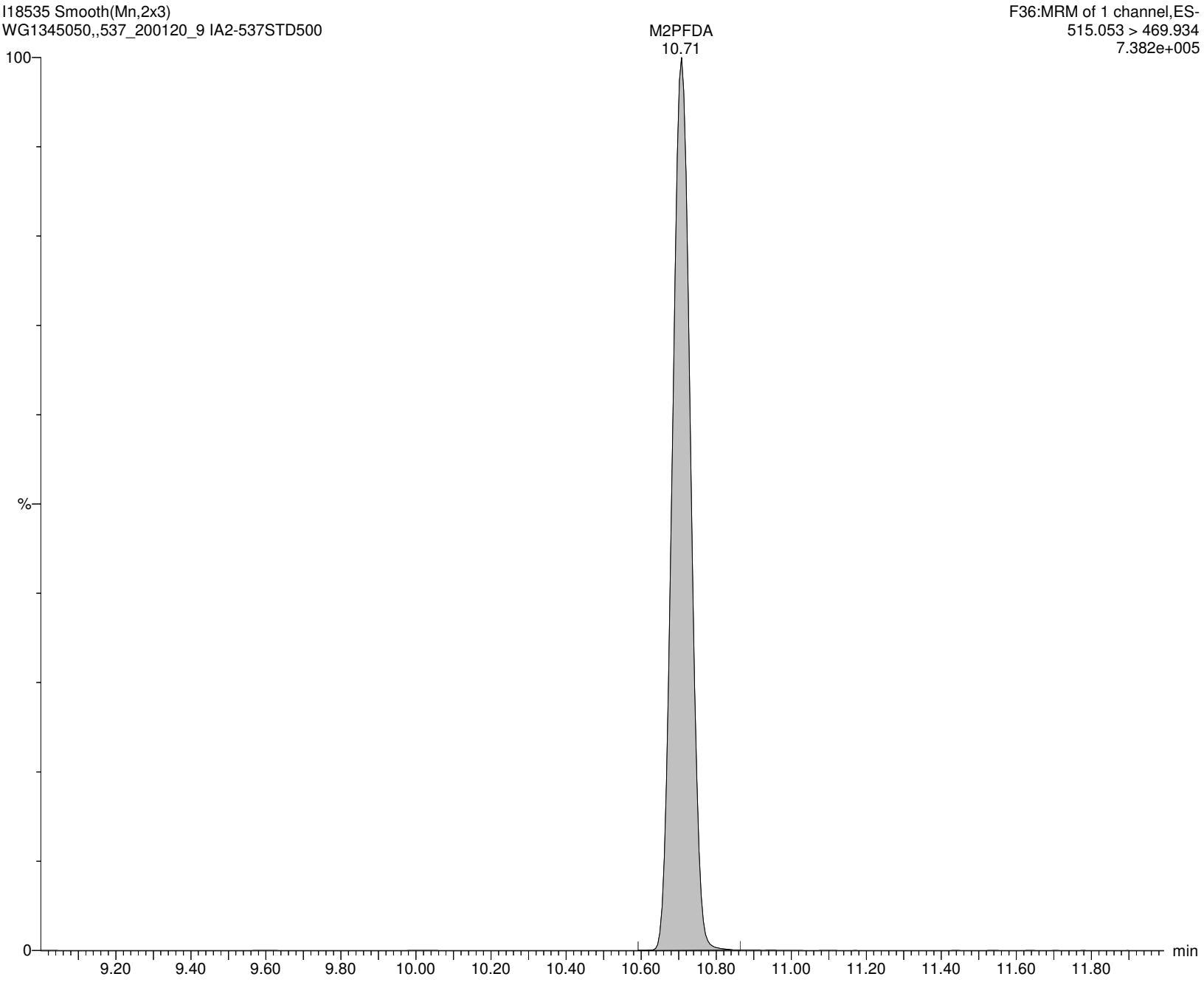

all concentration units in (ng/mL)

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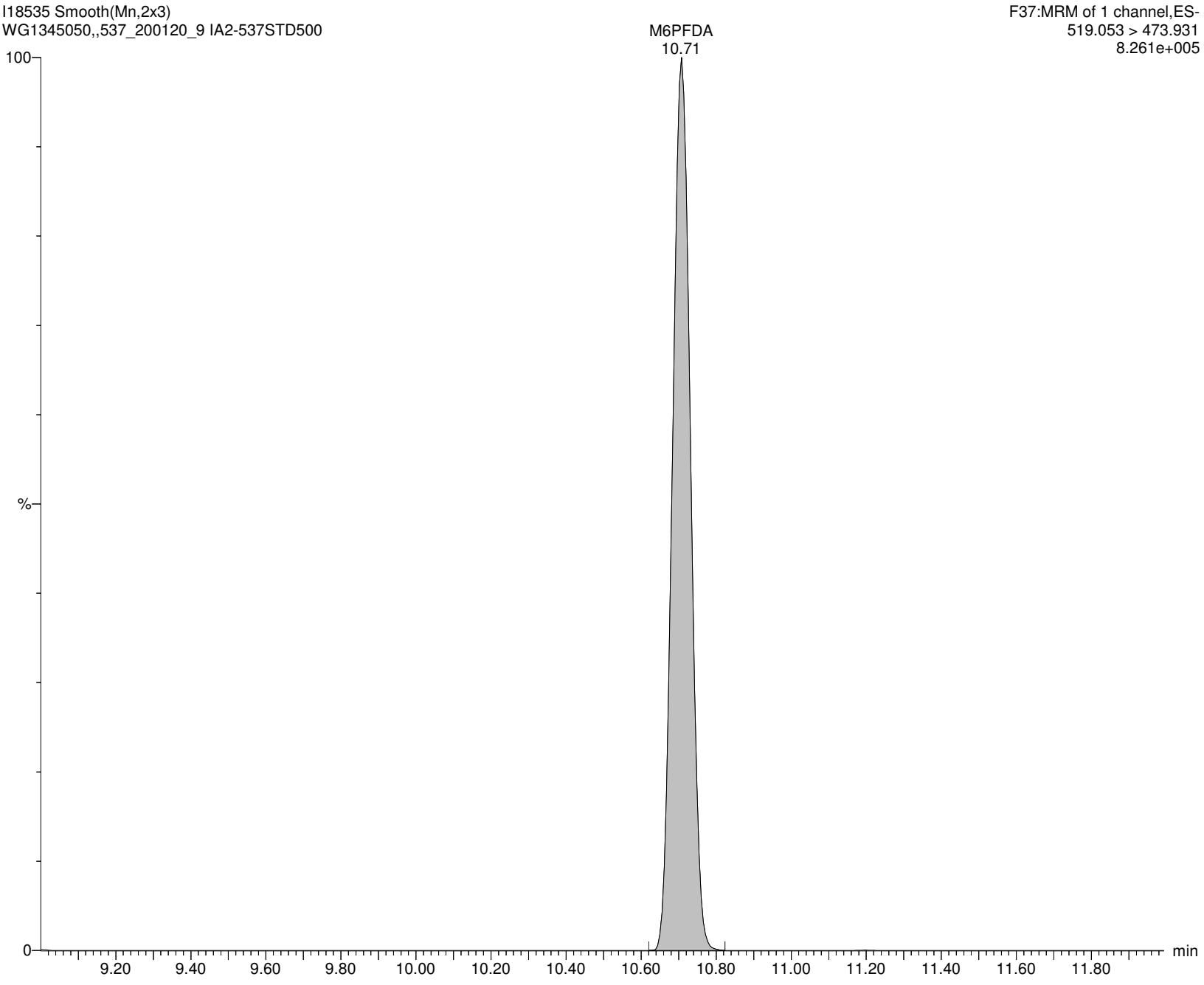

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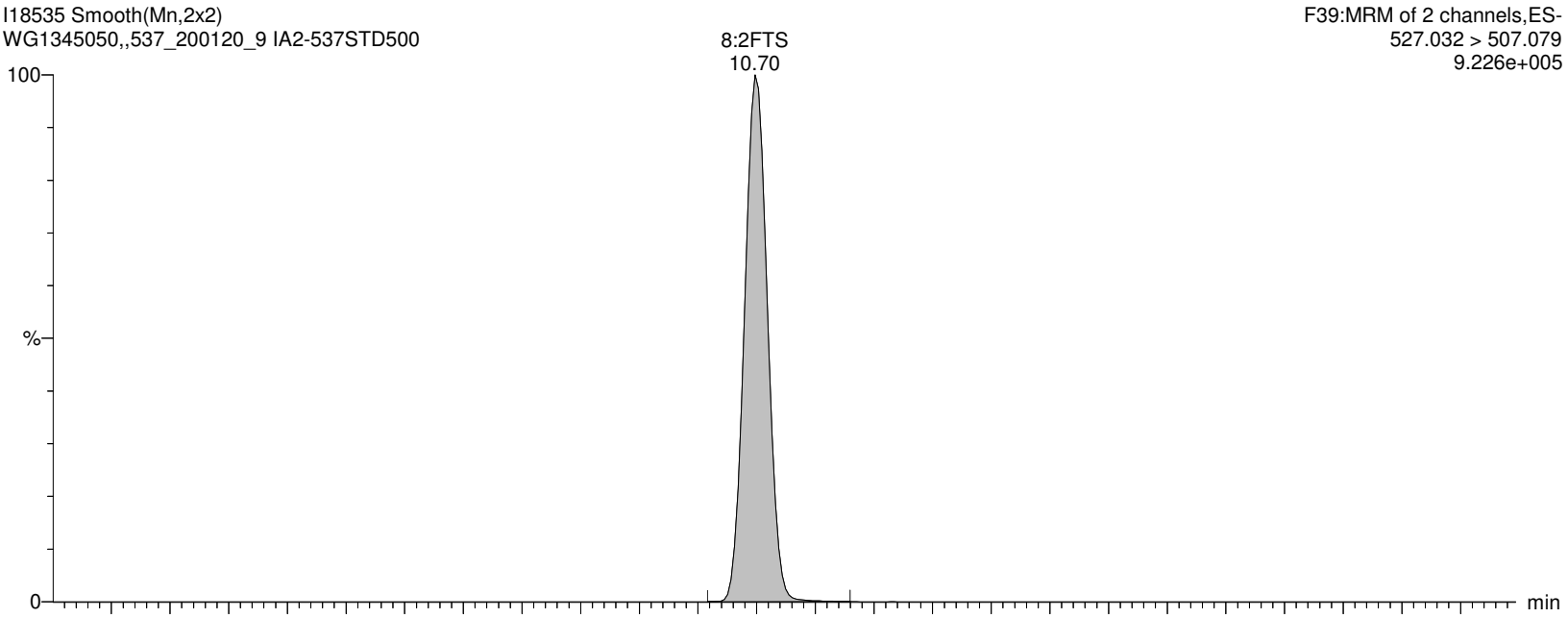

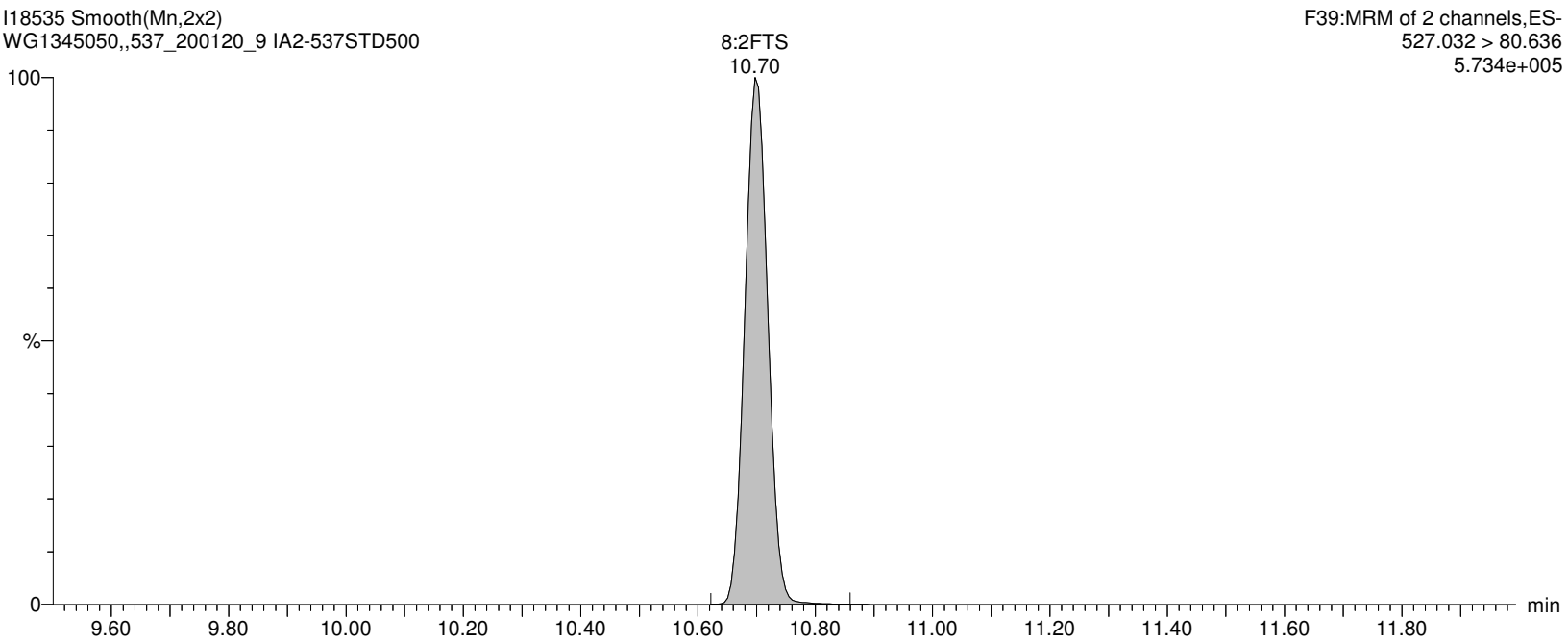

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:57 Eastern Standard Time

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Date: 27-Feb-2020
Time: 15:41:35
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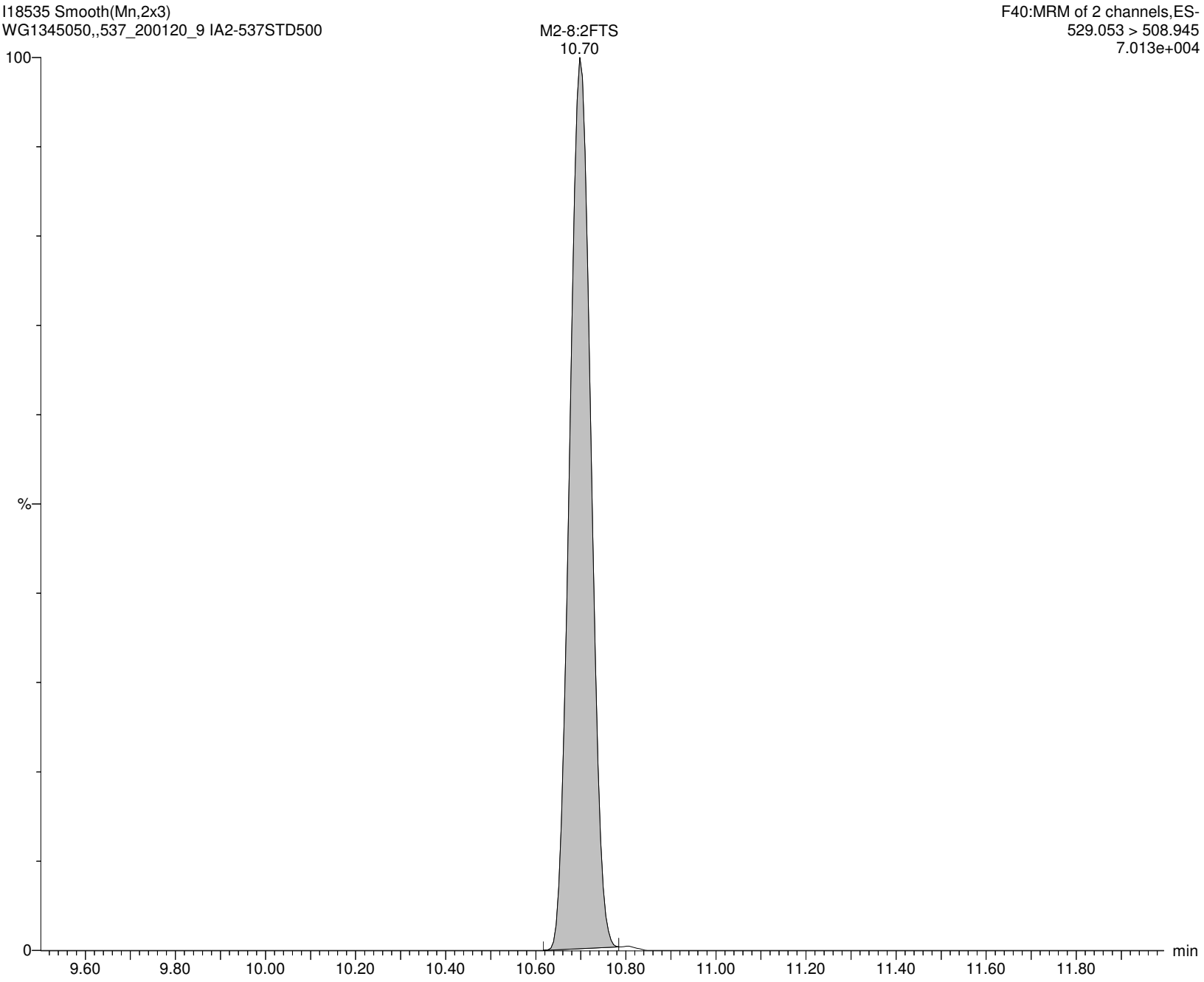
M2-8:2FTS



all concentration units in (ng/mL)

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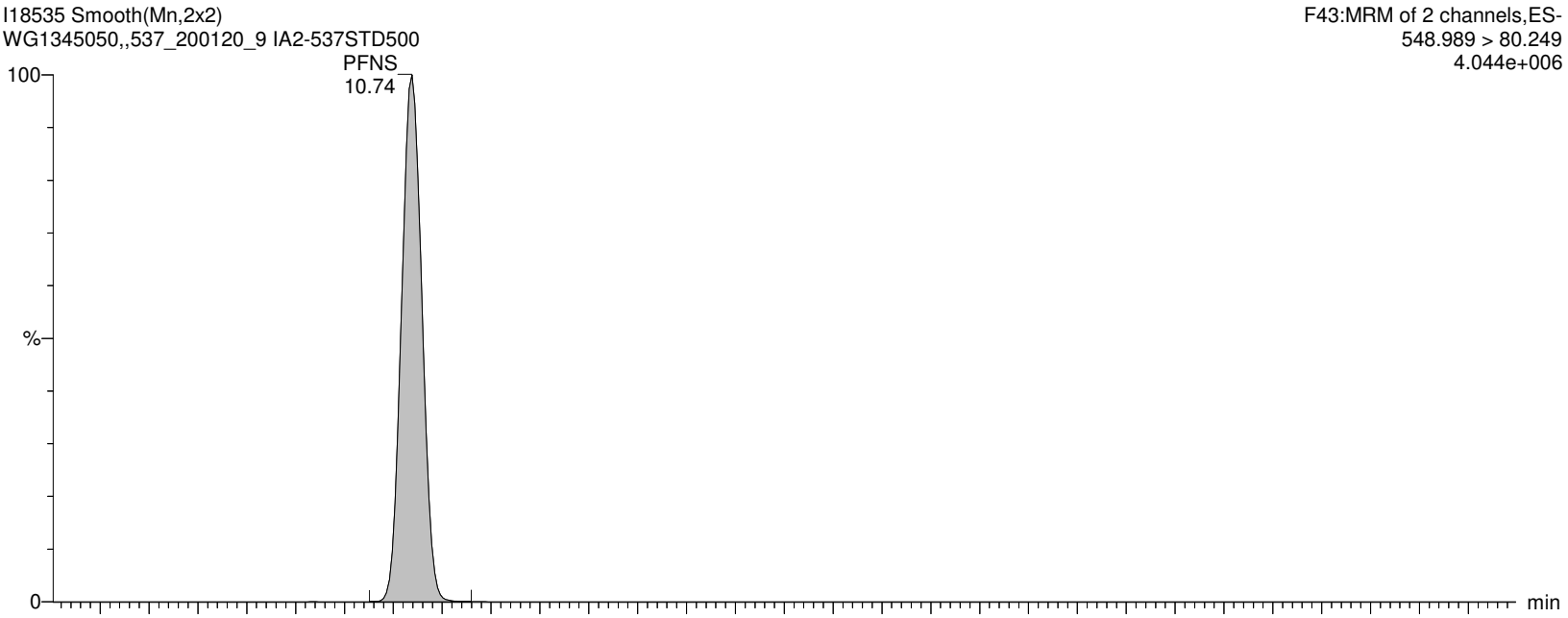

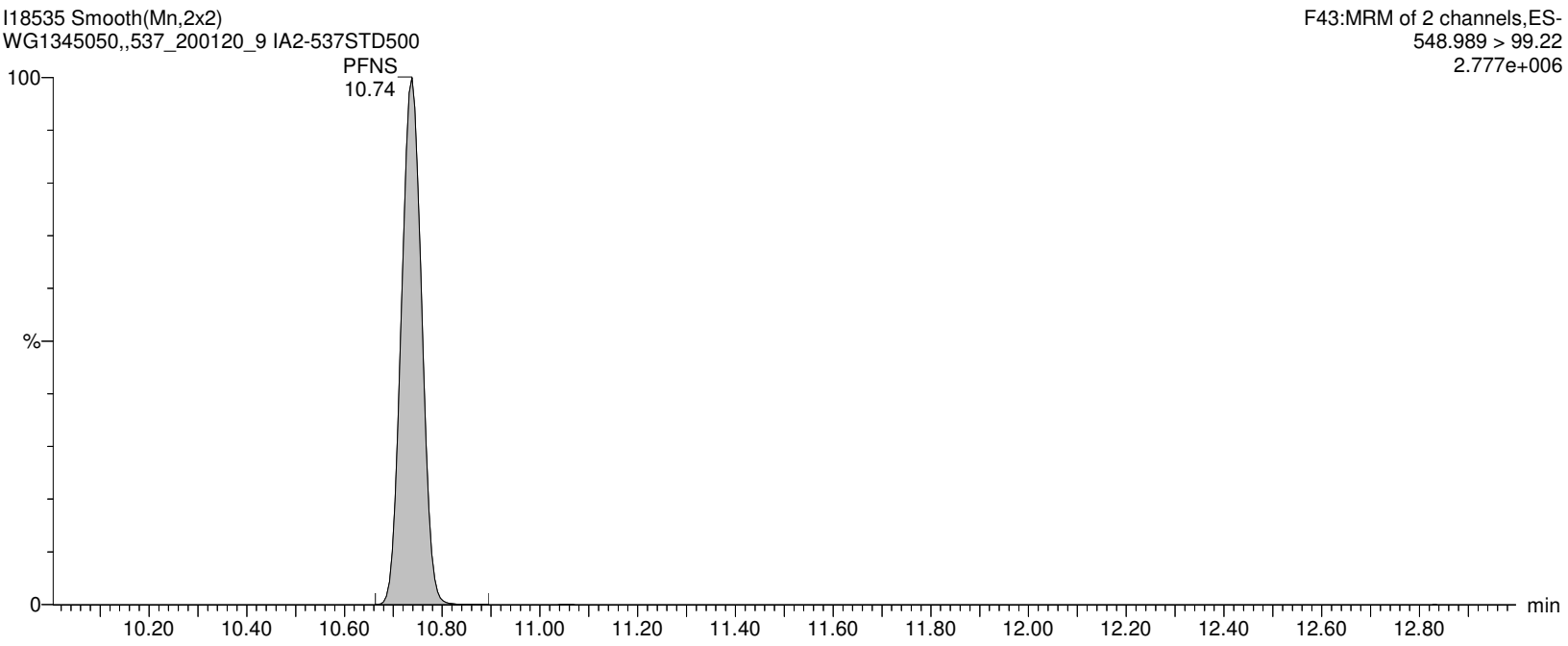

all concentration units in (ng/mL)

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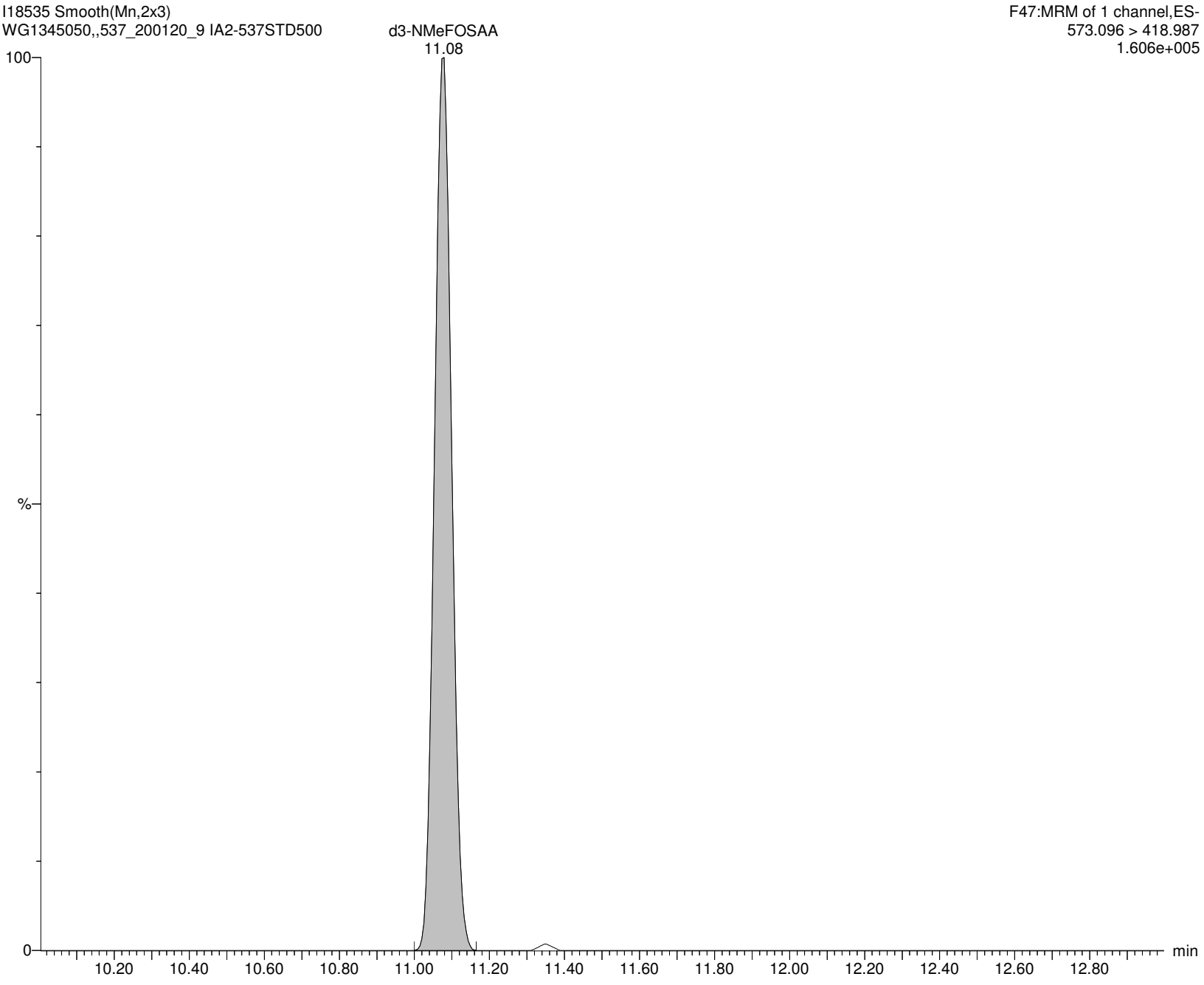

all concentration units in (ng/mL)

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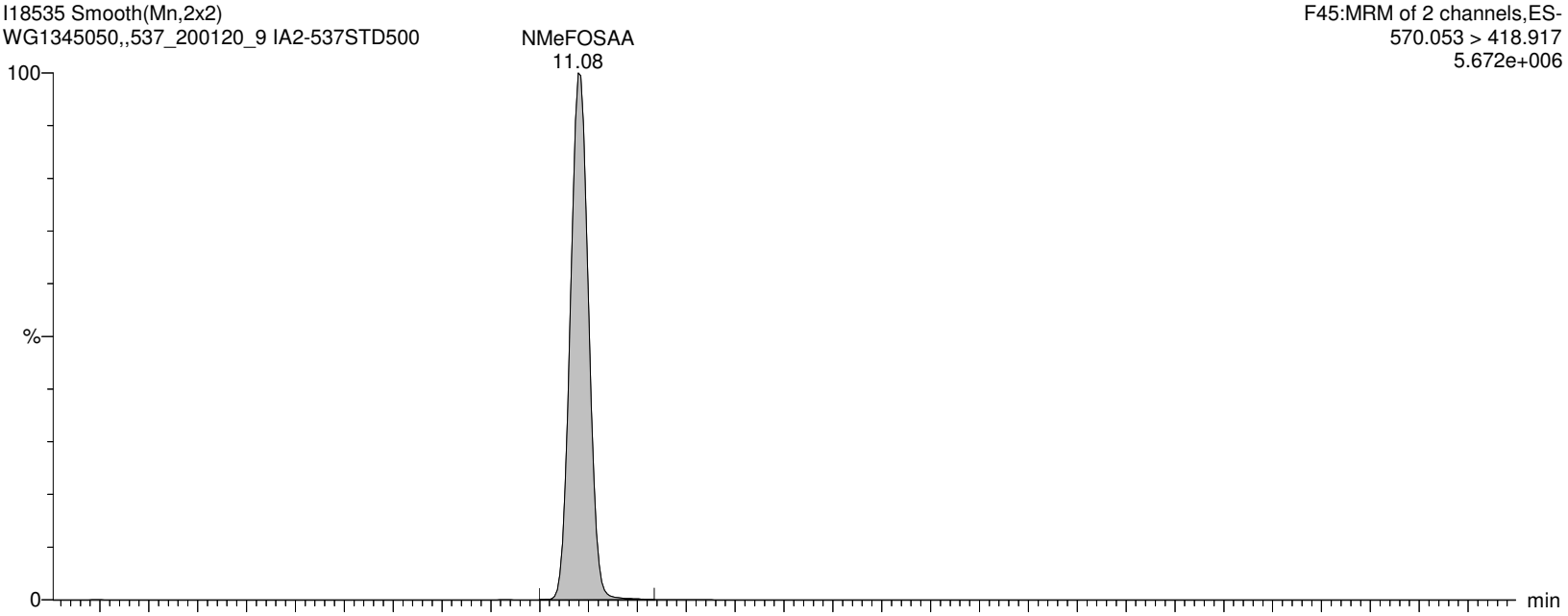

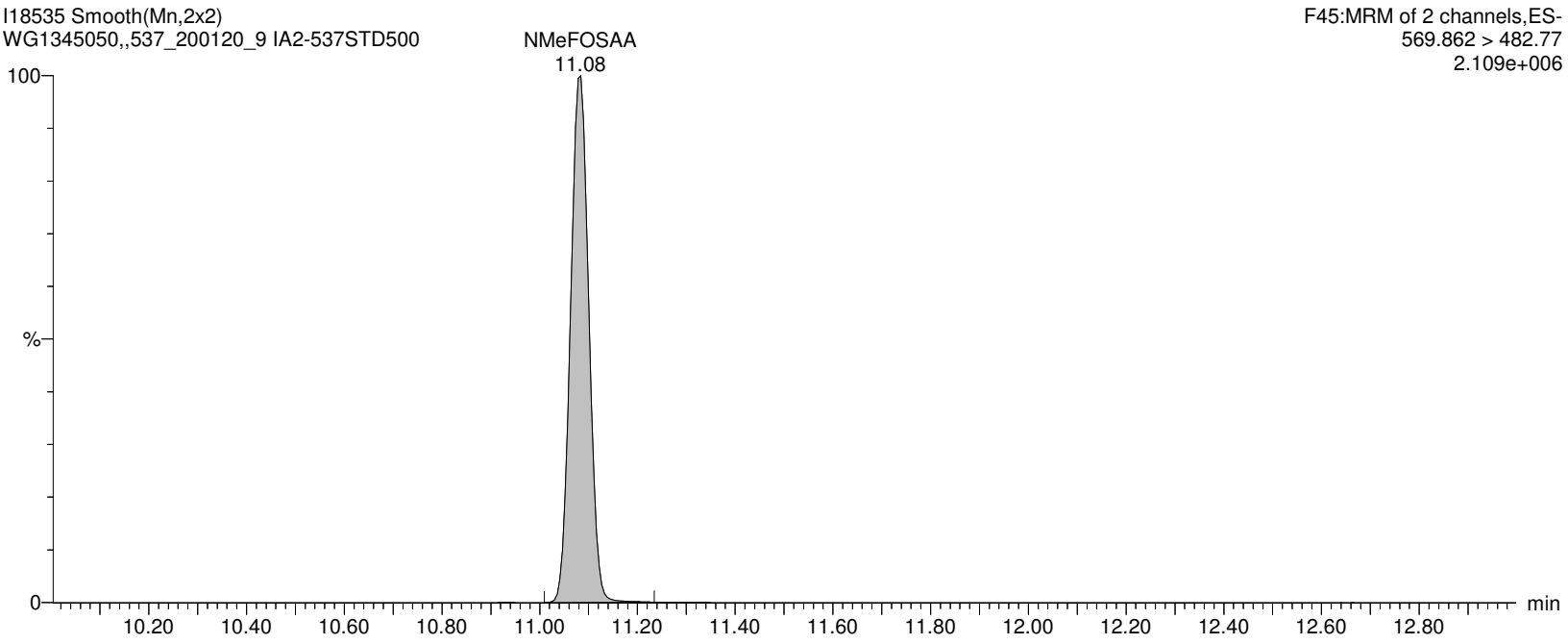

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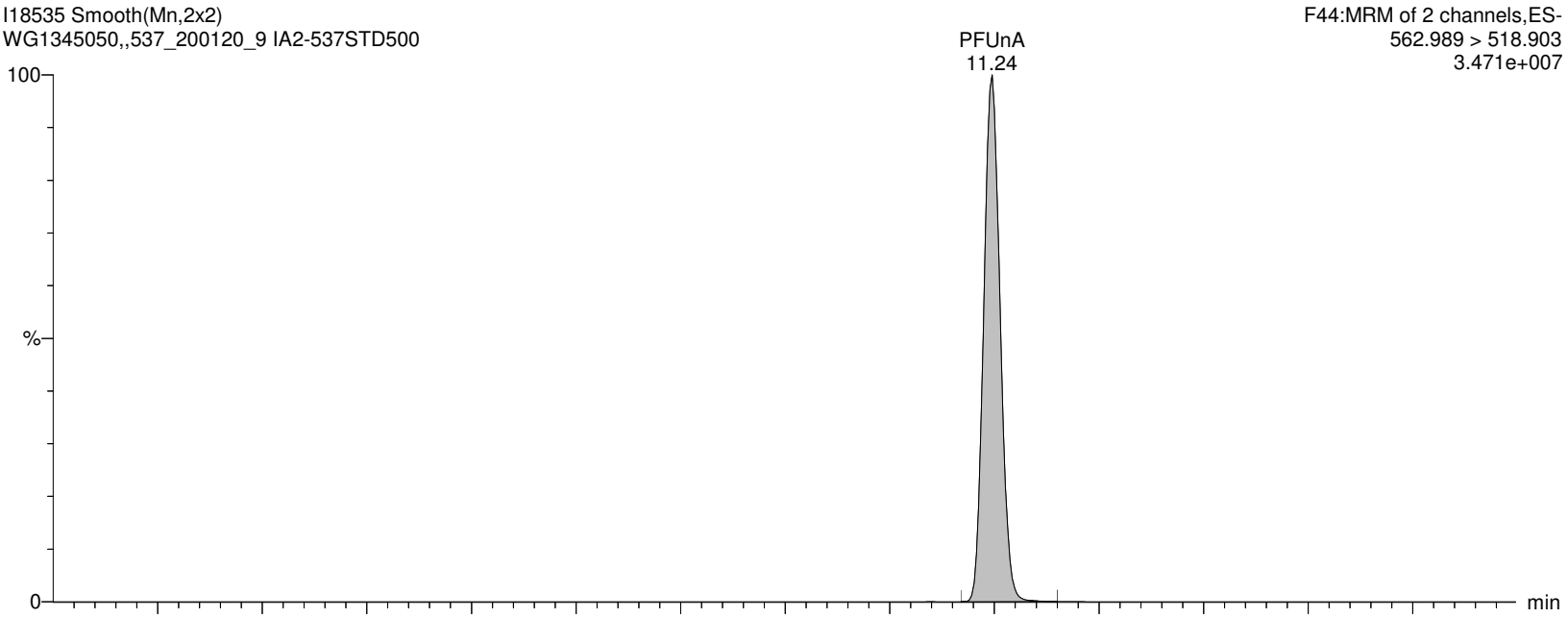

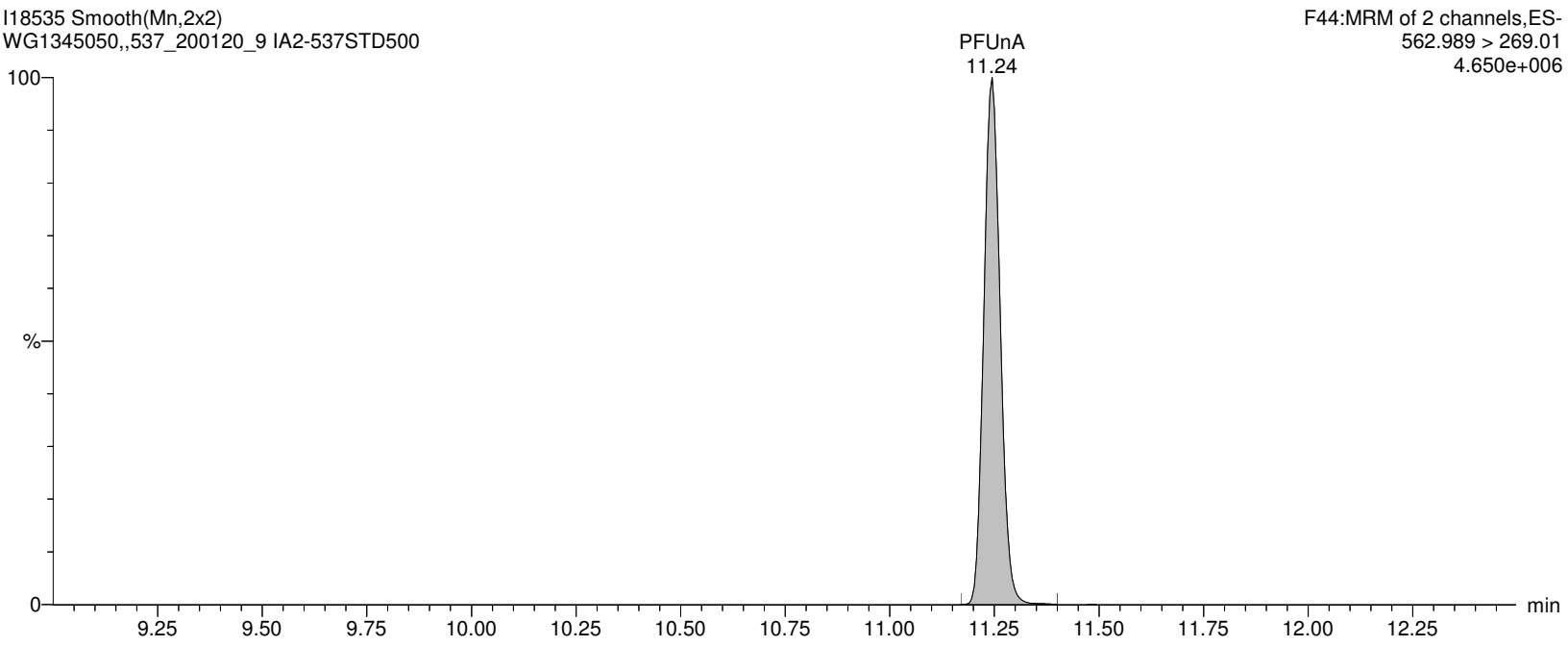

all concentration units in (ng/mL)

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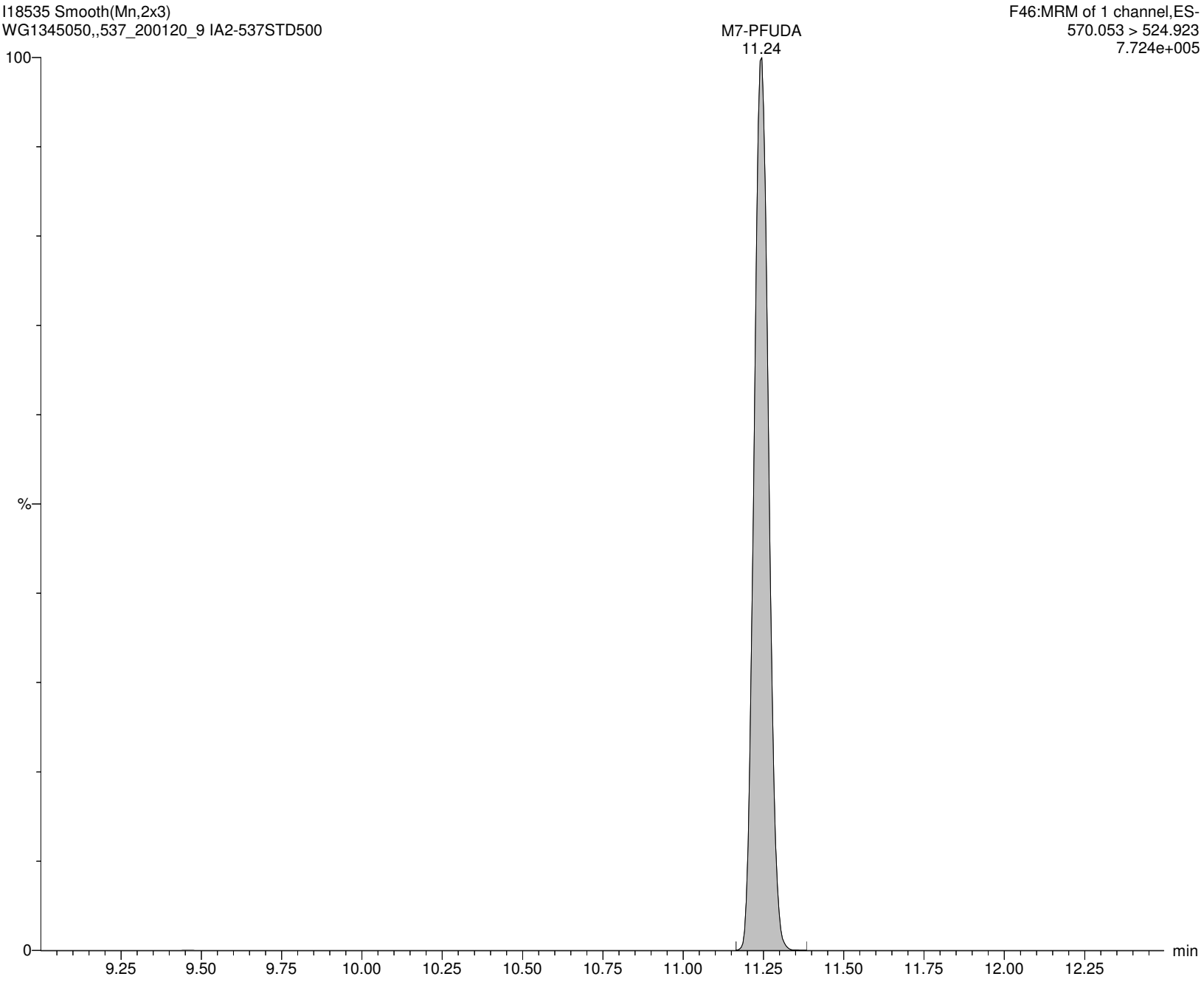
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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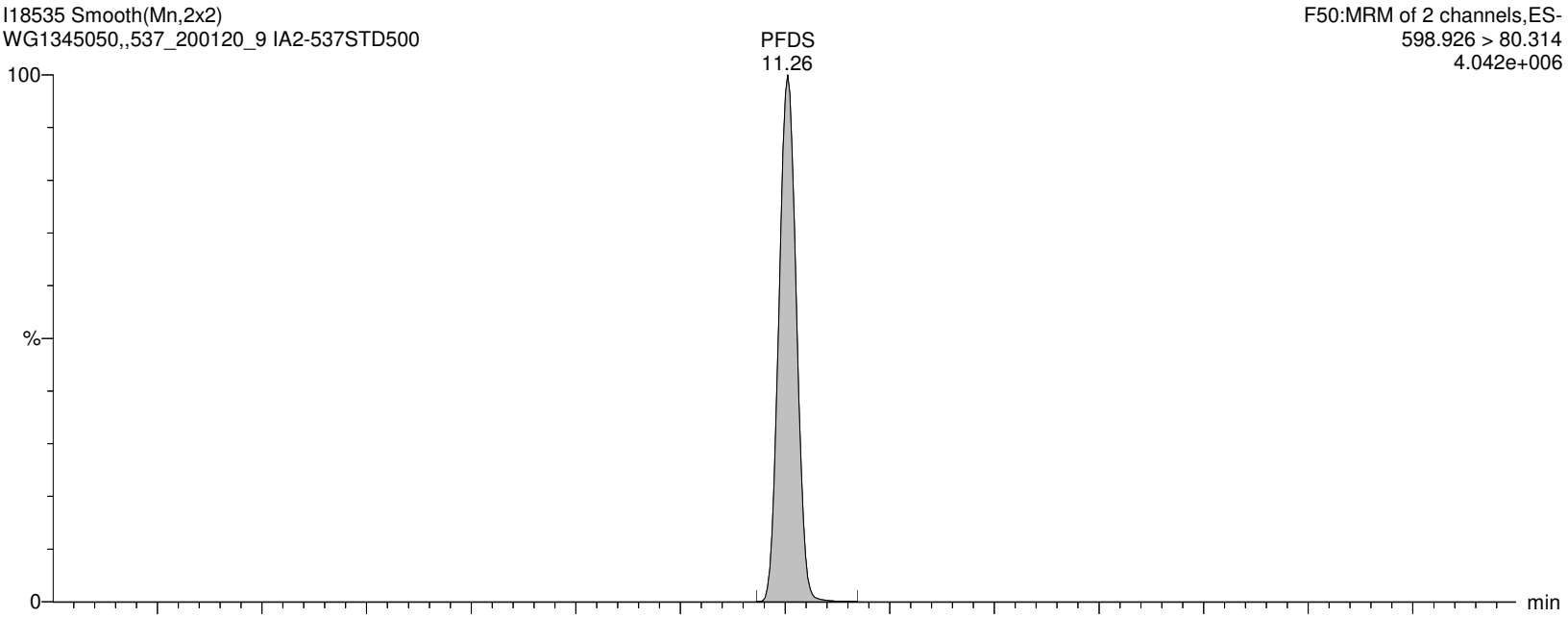

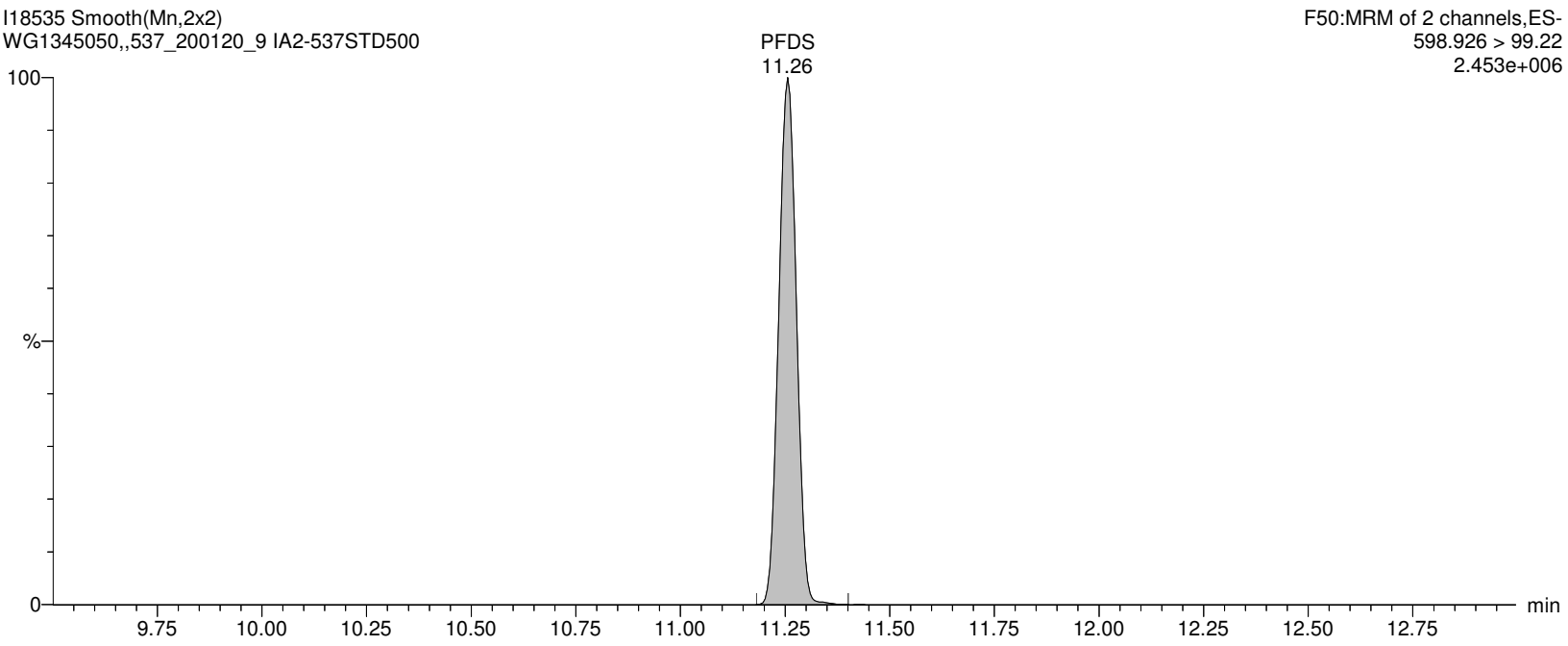

all concentration units in (ng/mL)

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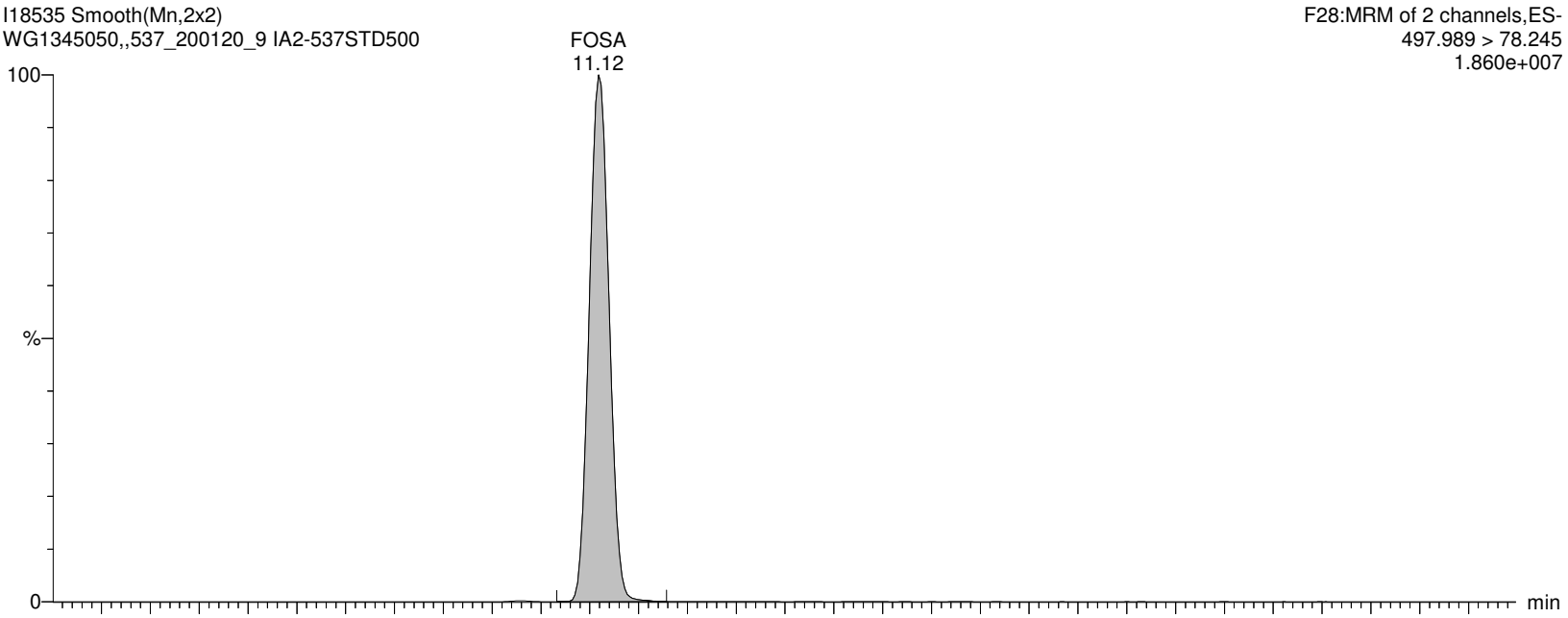

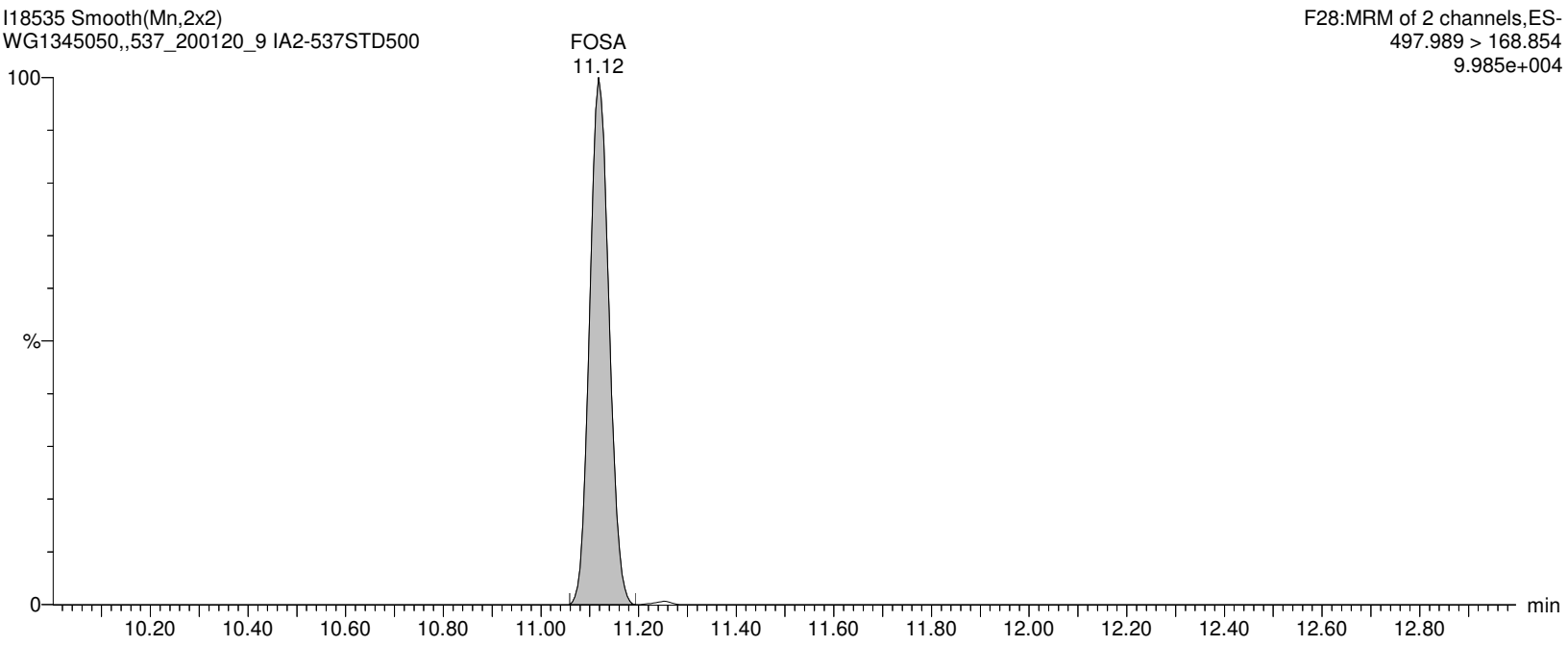

all concentration units in (ng/mL)

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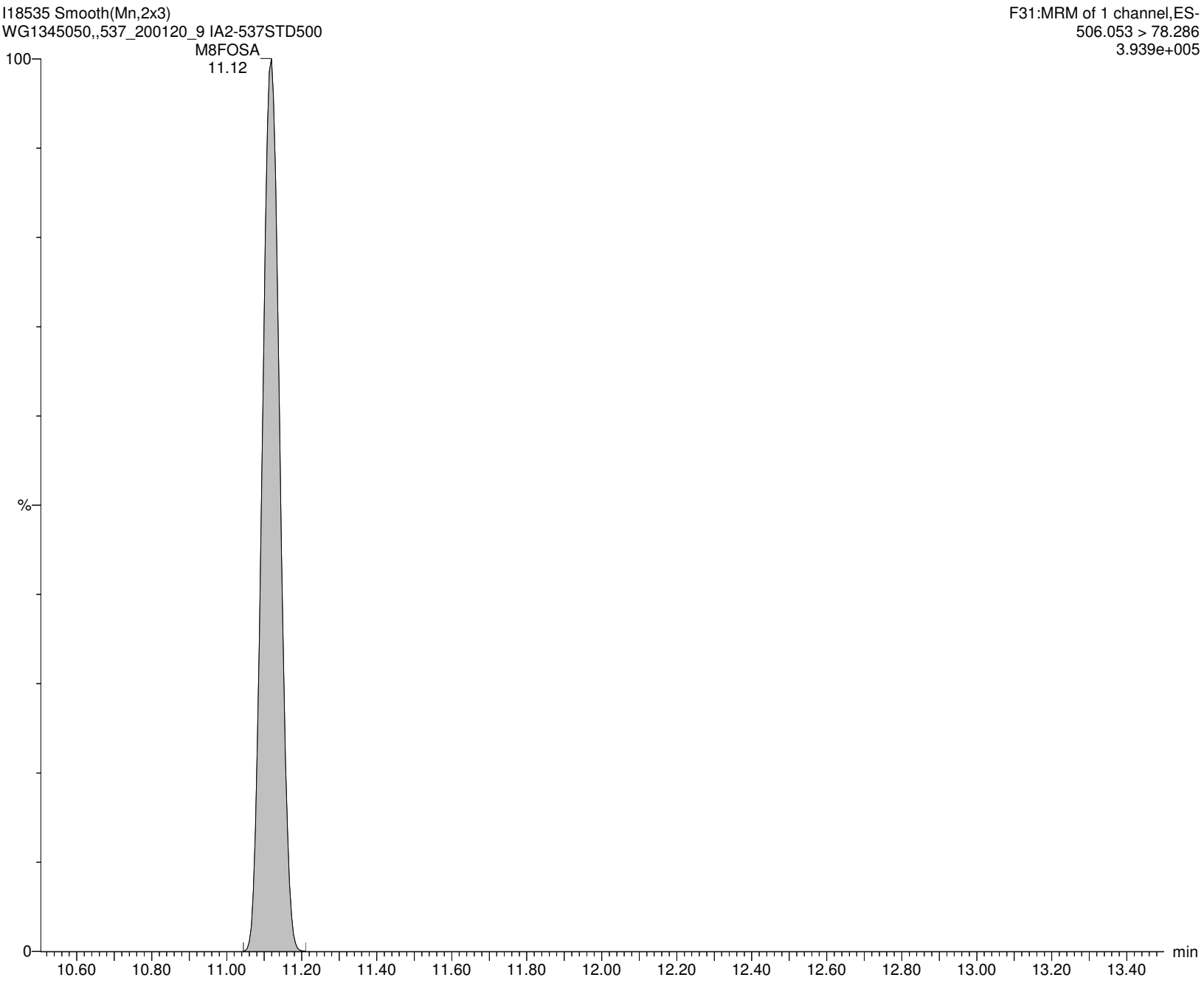

all concentration units in (ng/mL)

Alpha Analytical Inc.
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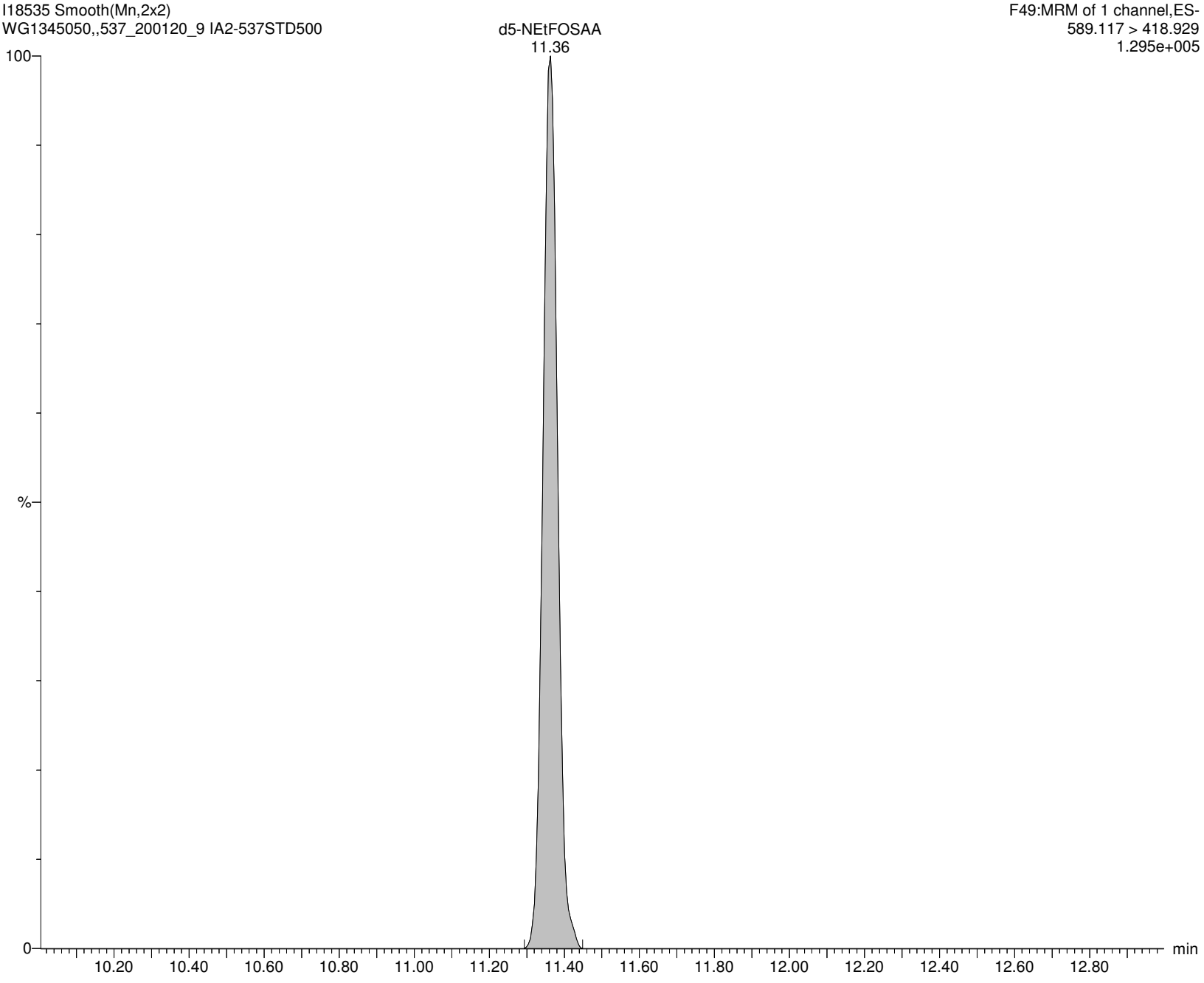

all concentration units in (ng/mL)

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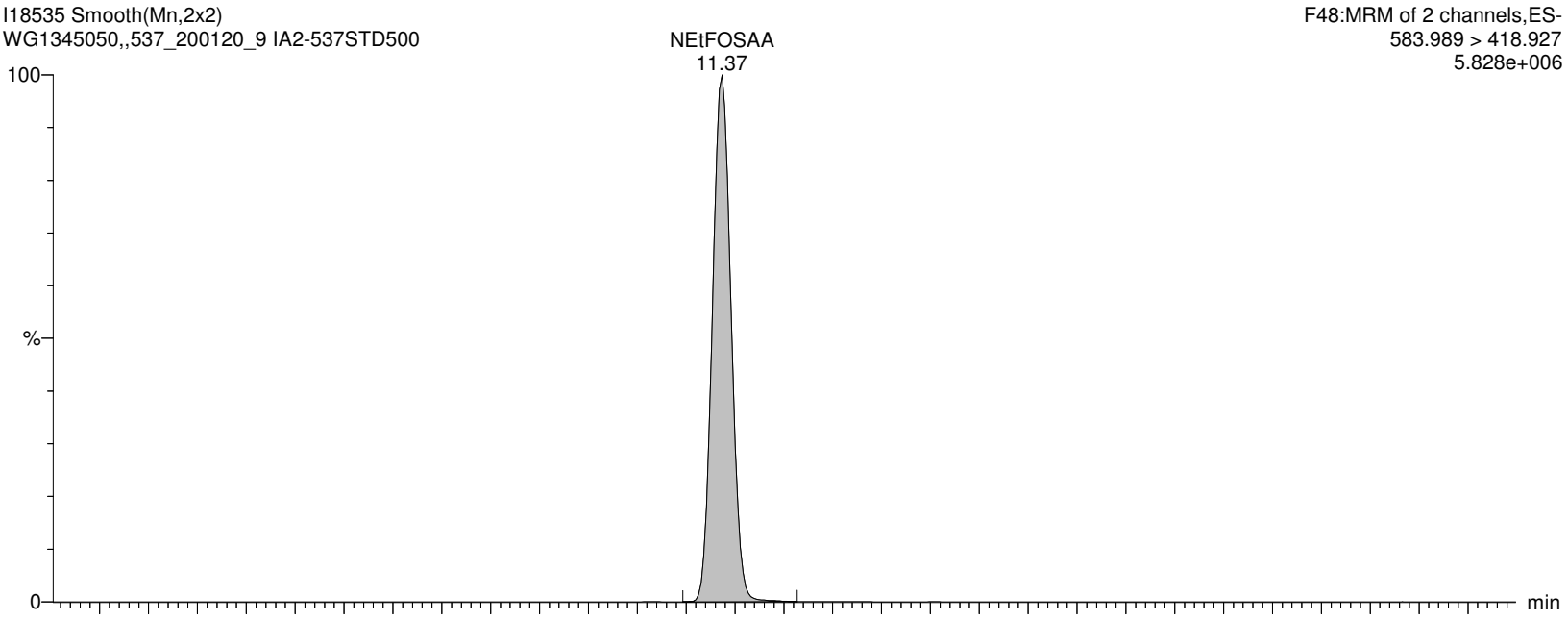

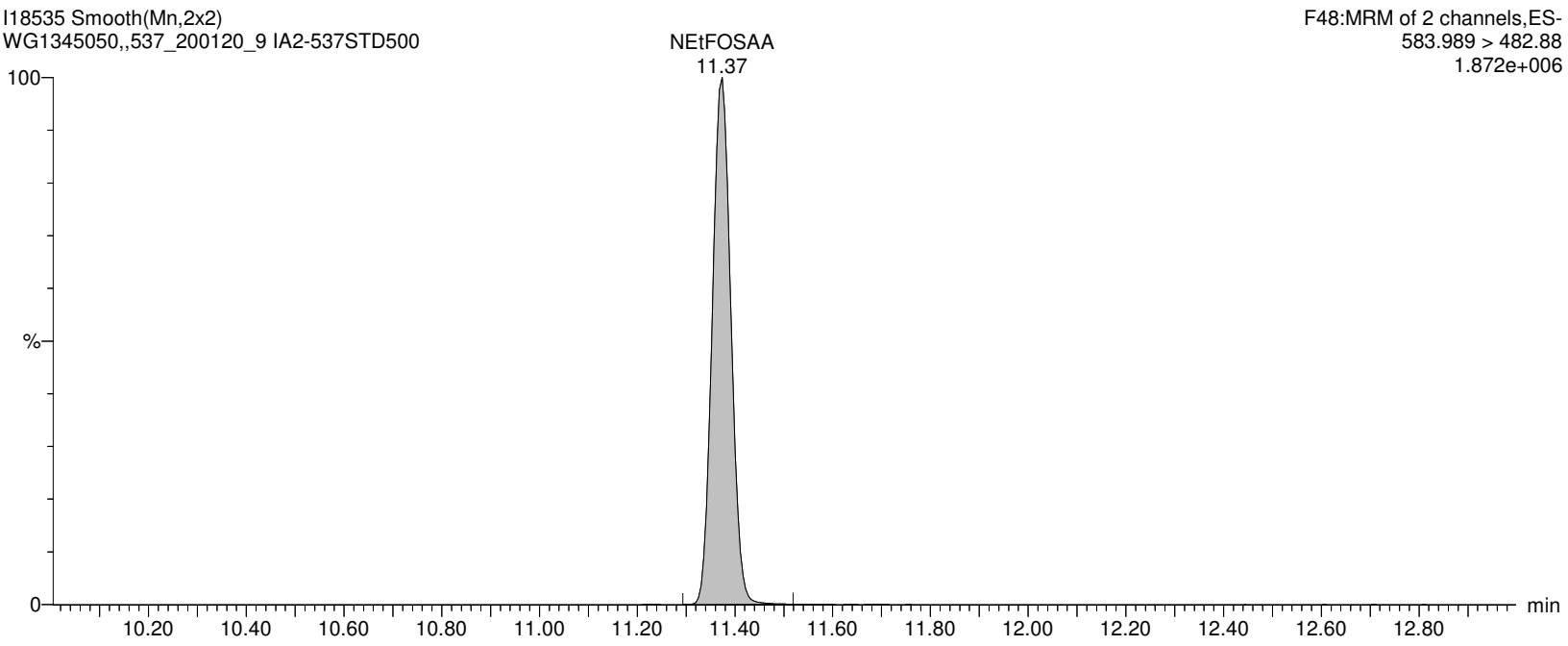

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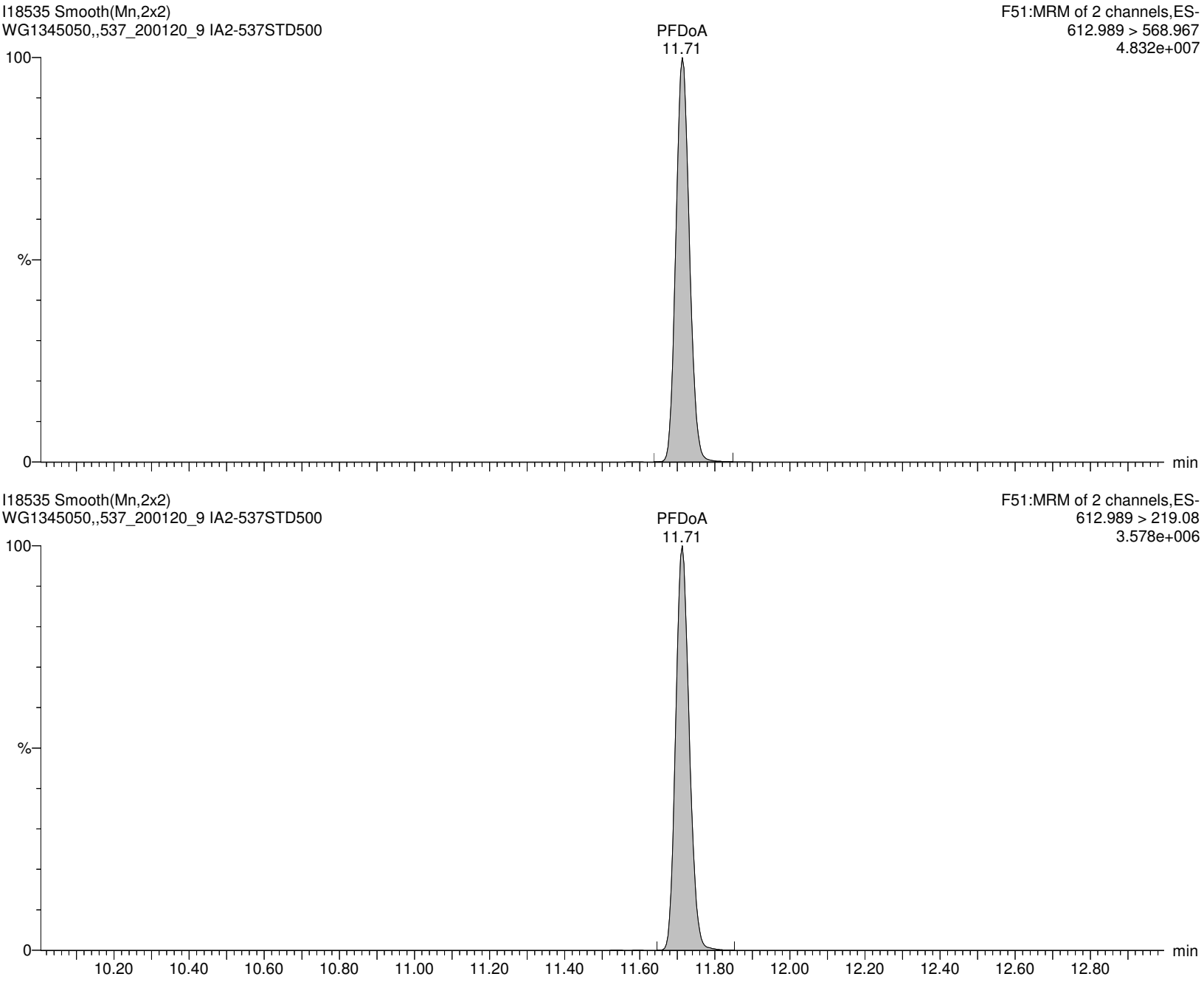

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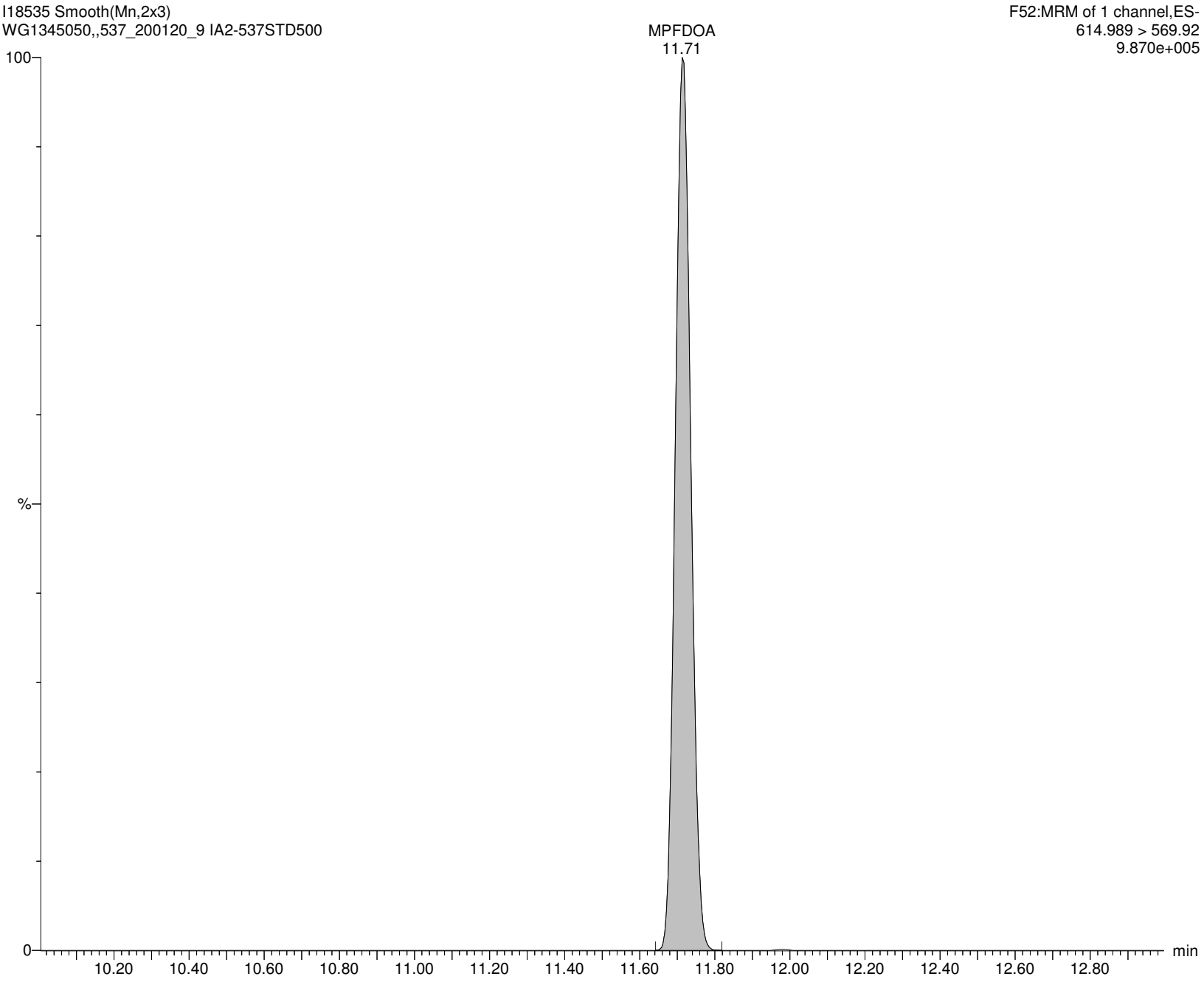

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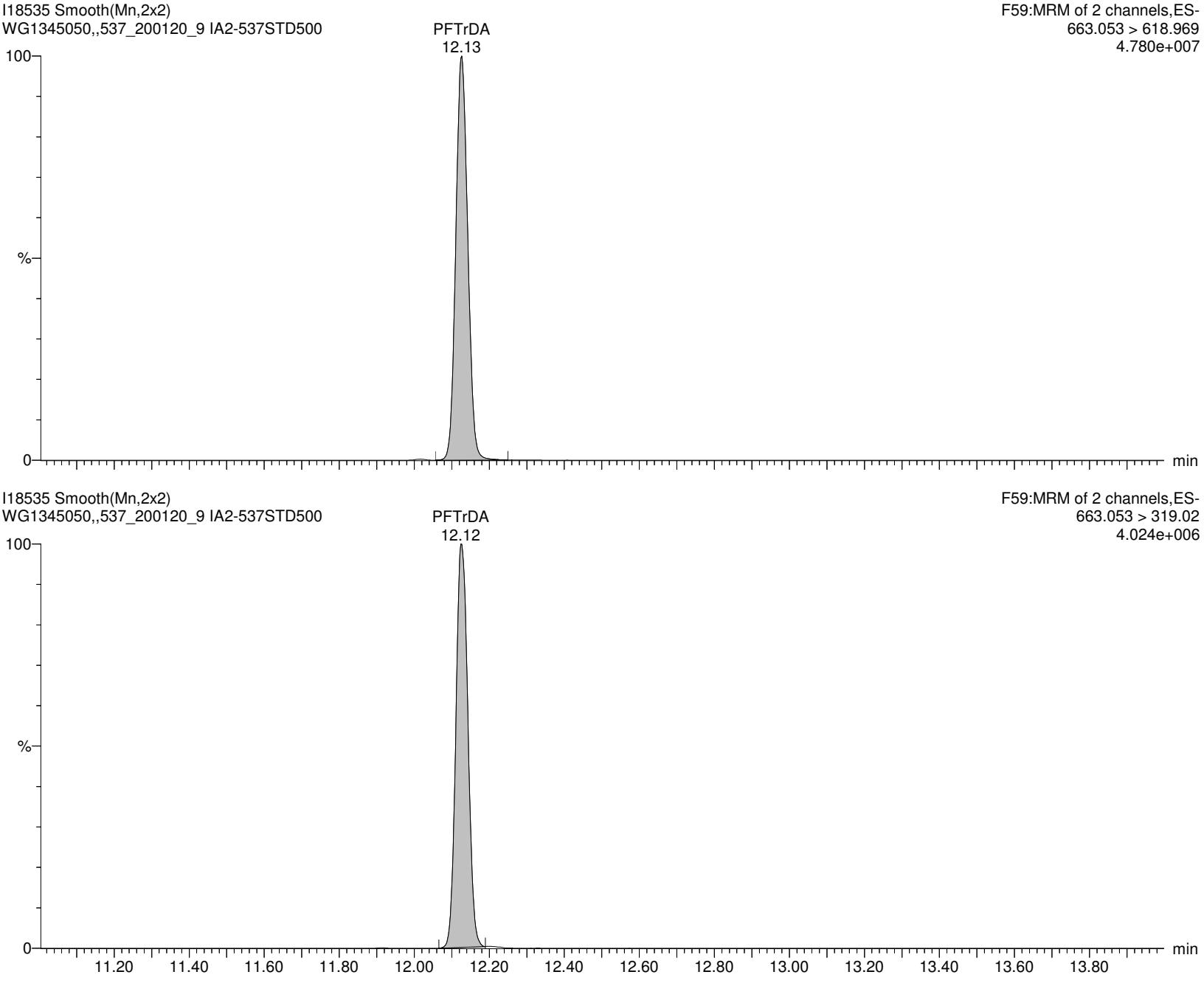

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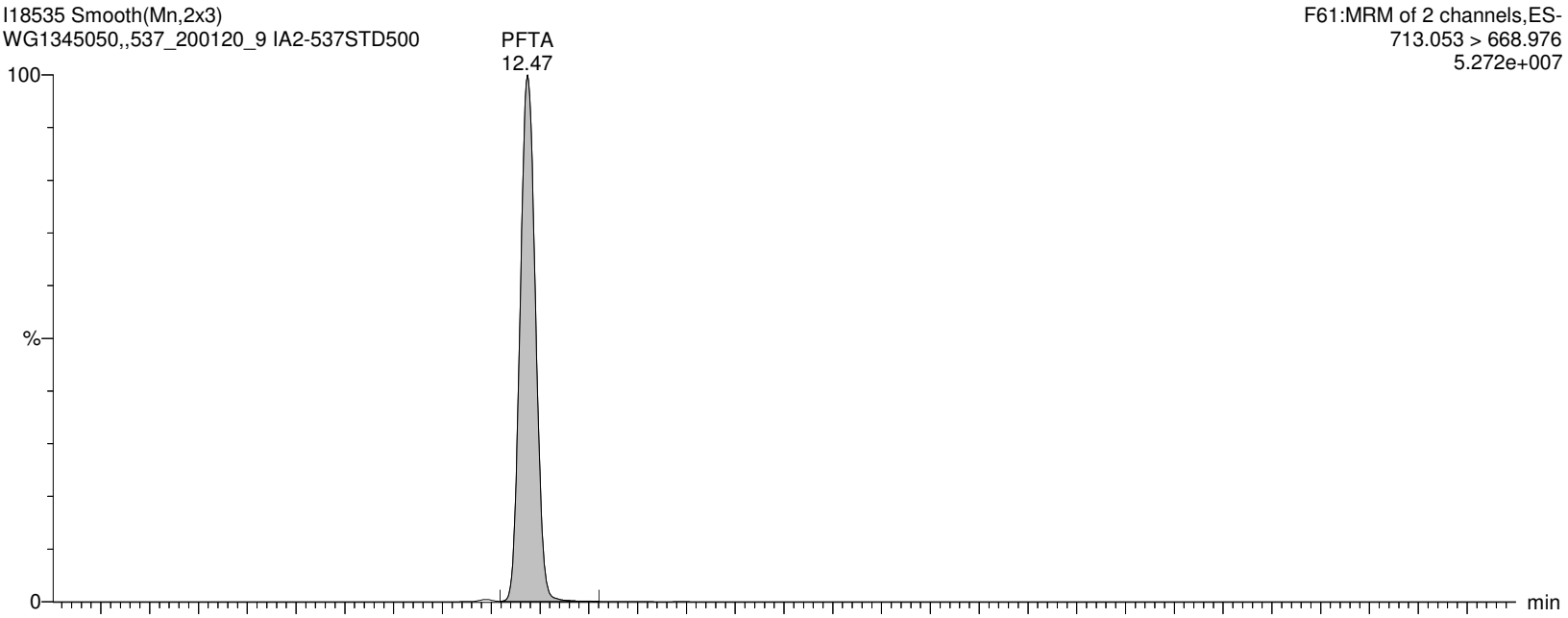

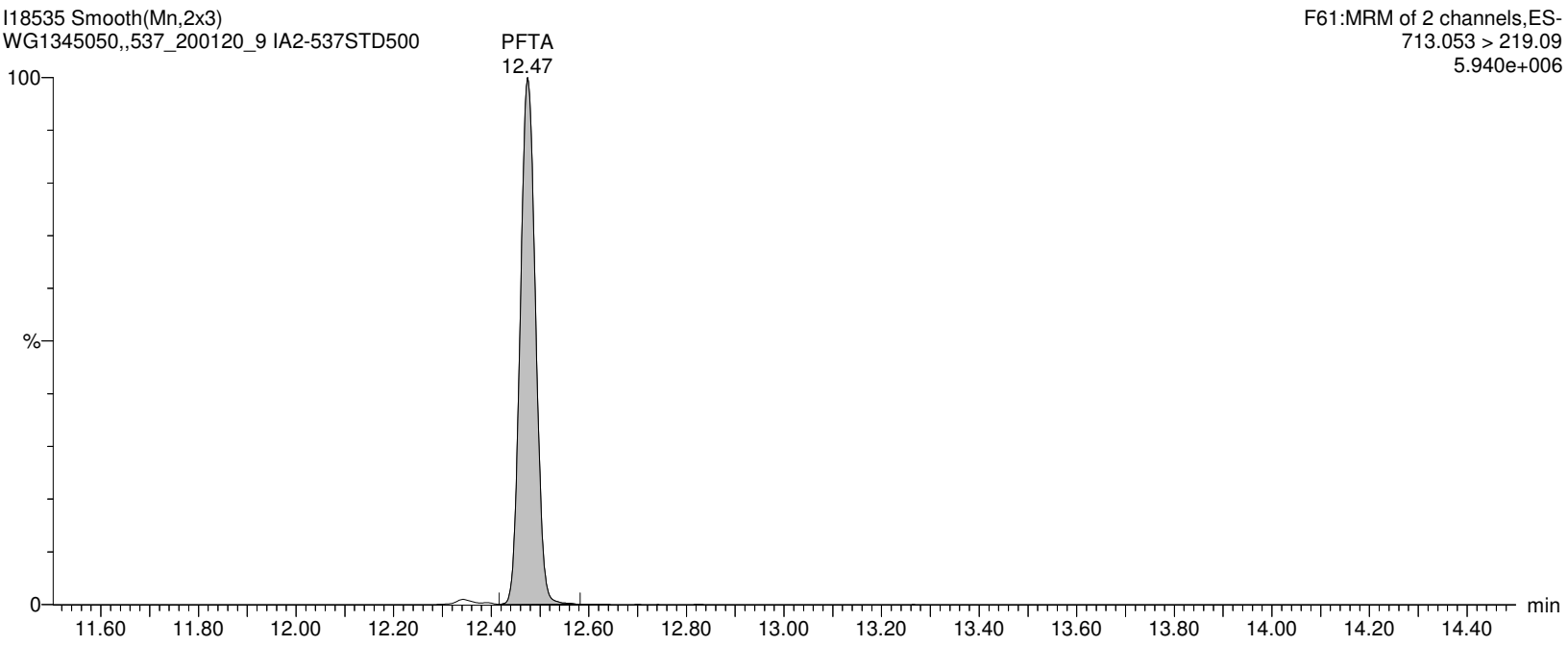

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Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
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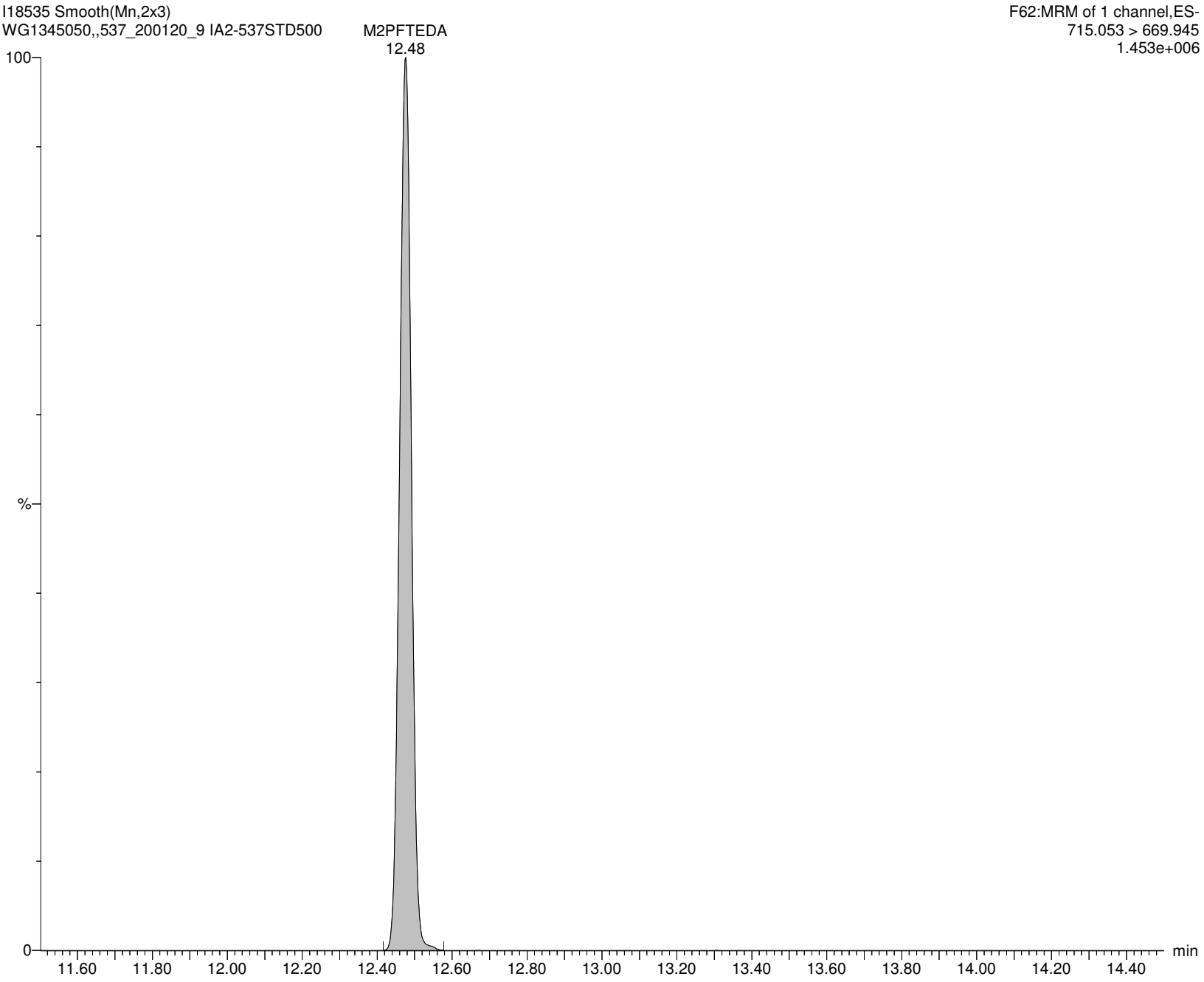

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:59 Eastern Standard Time

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ID: IA2-537STD0.5
Name: I18539
Date: 27-Feb-2020
Time: 16:47:48
Description: WG1345050,,537_200120_1
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	1544		0.474		na	94.8
2	M3PFBA	INT STD	2.24	215.926 > 172.122	42561		10.824		na	108.2
3	MPFBA	INT STD	2.24	216.926 > 172.137	45002		9.228		na	92.3
4	PFPeA	2706-90-3	5.20	262.926 > 219.002	2211		0.518		na	103.5
5	M5PFPEA	INT STD	5.20	267.989 > 223.081	61408		9.491		na	94.9
6	PFBS	375-73-5	5.87	298.926 > 79.923	376		0.385	1.83	NO	86.9
7	M3PFBS	INT STD	5.87	301.989 > 80.254	10848		8.448		na	84.5
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	182		0.471	1.66	NO	100.8
9	M2-4:2FTS	INT STD	7.04	329.117 > 309.079	4736		7.079		na	70.8
10	PFHxA	307-24-4	7.13	312.989 > 269.028	3317		0.548		YES	109.7
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	72988		8.904		na	89.0
12	PFPeS	2706-91-4	7.44	348.926 > 80.251	450		0.506	2.99	NO	107.6
13	PFHpA	375-85-9	8.40	362.926 > 319.014	4136		0.508	5.51	NO	101.6
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	88785		9.336		na	93.4
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	52	M2	0.076		YES	89.6
16	L-PFHxS	355-46-4	8.55	398.904 > 79.915	324	M2	0.468		YES	126.4
17	PFHxS	355-46-4		398.904 > 79.915	377		0.544		na	
18	M3PFHxS	INT STD	8.56	401.926 > 80.317	9378		8.151		na	81.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.35	412.989 > 368.9	4060		0.551	12.74	YES	110.2
21	M2PFOA	INT STD	9.35	415.032 > 369.968	100127		11.901		na	119.0
22	PFOA	335-67-1		412.989 > 368.9	4060		0.551		na	
23	M8PFOA	INT STD	9.35	420.989 > 375.979	85647		8.970		na	89.7
24	6:2FTS	27619-97-2	9.32	426.989 > 406.921	42	M2	0.436	0.77	NO	91.8
25	M2-6:2FTS	INT STD	9.30	428.989 > 408.917	4064		9.763		na	97.6
26	PFHpS	375-92-8	9.43	448.926 > 80.257	293		0.485	1.32	NO	102.1
27	PFNA	375-95-1	10.09	462.989 > 418.931	2720		0.433	2.64	NO	86.6
28	M9PFNA	INT STD	10.09	472.053 > 426.947	84465		9.049		na	90.5
29	br-PFOS	1763-23-1	9.95	498.968 > 79.918	100	M5	0.112	6.43	YES	112.4
30	L-PFOS	1763-23-1	10.14	498.968 > 79.918	208		0.320	1.17	NO	87.7
31	PFOS	1763-23-1		498.968 > 79.918	308		0.433		na	
32	M4PFOS	INT STD	10.14	503.032 > 80.306	10010		11.784		na	117.8
33	M8PFOS	INT STD	10.14	507.053 > 80.294	12059		10.374		na	103.7
34	PFDA	335-76-2	10.71	513.053 > 468.906	3119		0.477	5.42	NO	95.4
35	M2PFDA	INT STD	10.71	515.053 > 469.934	82887		12.530		na	125.3
36	M6PFDA	INT STD	10.71	519.053 > 473.931	85360		9.360		na	93.6
37	8:2FTS	39108-34-4	10.71	527.032 > 507.079	70		0.525	1.93	NO	109.4
38	M2-8:2FTS	INT STD	10.70	529.053 > 508.945	1976		7.850		na	78.5
39	PFNS	68259-12-1	10.74	548.989 > 80.249	220		0.270	1.28	NO	56.3

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Name: I18539
Date: 27-Feb-2020
Time: 16:47:48
Description: WG1345050,,537_200120_1
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	9412		7.791		na	77.9
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	298		0.530	3.25	NO	106.0
42	PFUnA	2058-94-8	11.25	562.989 > 518.903	2866		0.390	4.89	NO	77.9
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	78990		9.857		na	98.6
44	PFDS	335-77-3	11.27	598.926 > 80.314	244		0.308	0.83	NO	63.8
45	FOSA	754-91-6	11.12	497.989 > 78.245	918		0.356		YES	71.2
46	M8FOSA	INT STD	11.12	506.053 > 78.286	31314		8.568		na	85.7
47	d5-NEtFOSAA	INT STD	11.36	589.117 > 418.929	6239		7.082		na	70.8
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	321		0.603	2.60	NO	120.6
49	PFDoA	307-55-1	11.72	612.989 > 568.967	3774		0.536	20.43	YES	107.2
50	MPFDOA	INT STD	11.72	614.989 > 569.92	77519		8.998		na	90.0
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	4260		0.605	27.71	YES	120.9
52	PFTA	376-06-7	12.48	713.053 > 668.976	3157		0.484	7.48	NO	96.8
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	88013		9.064		na	90.6

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Vial: 1:B,5
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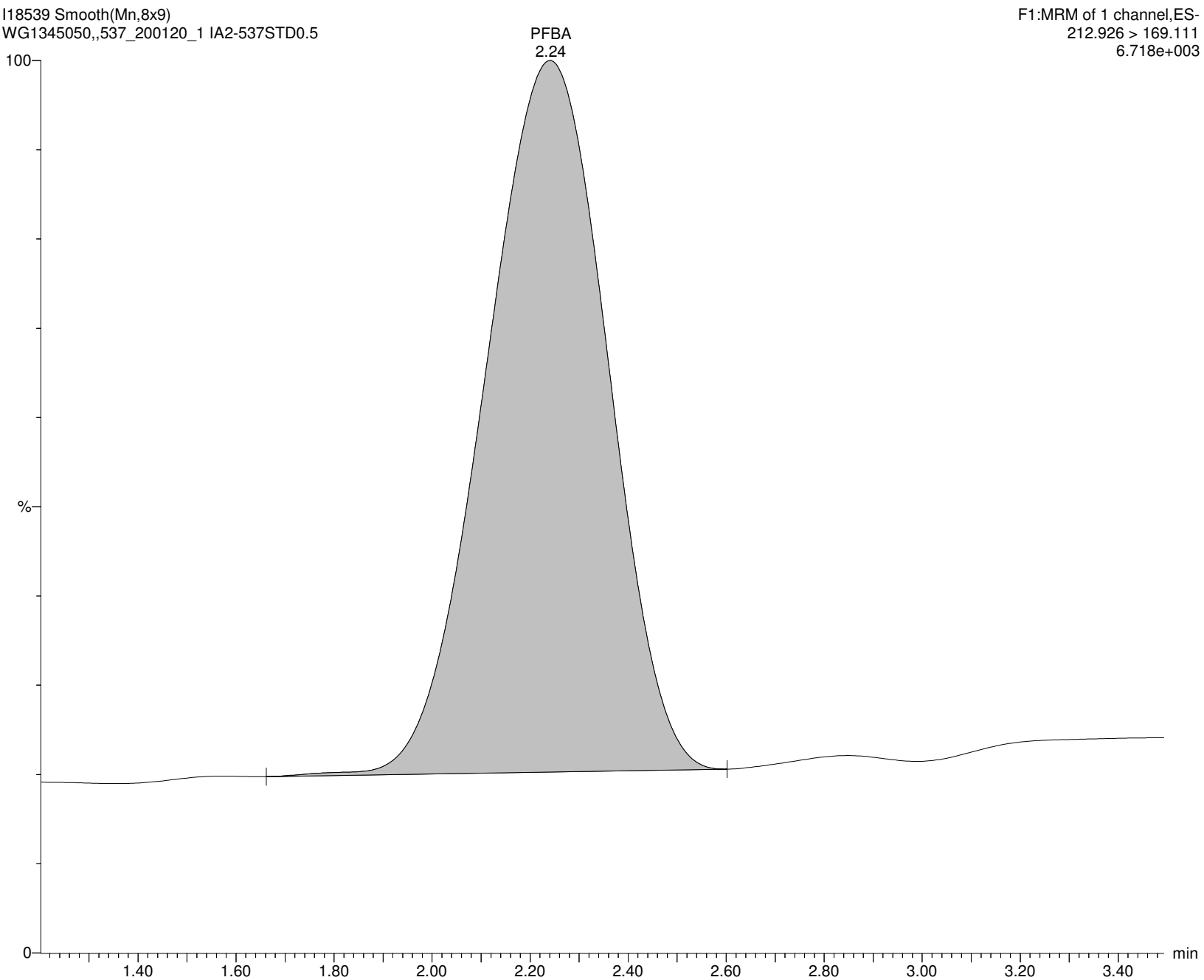

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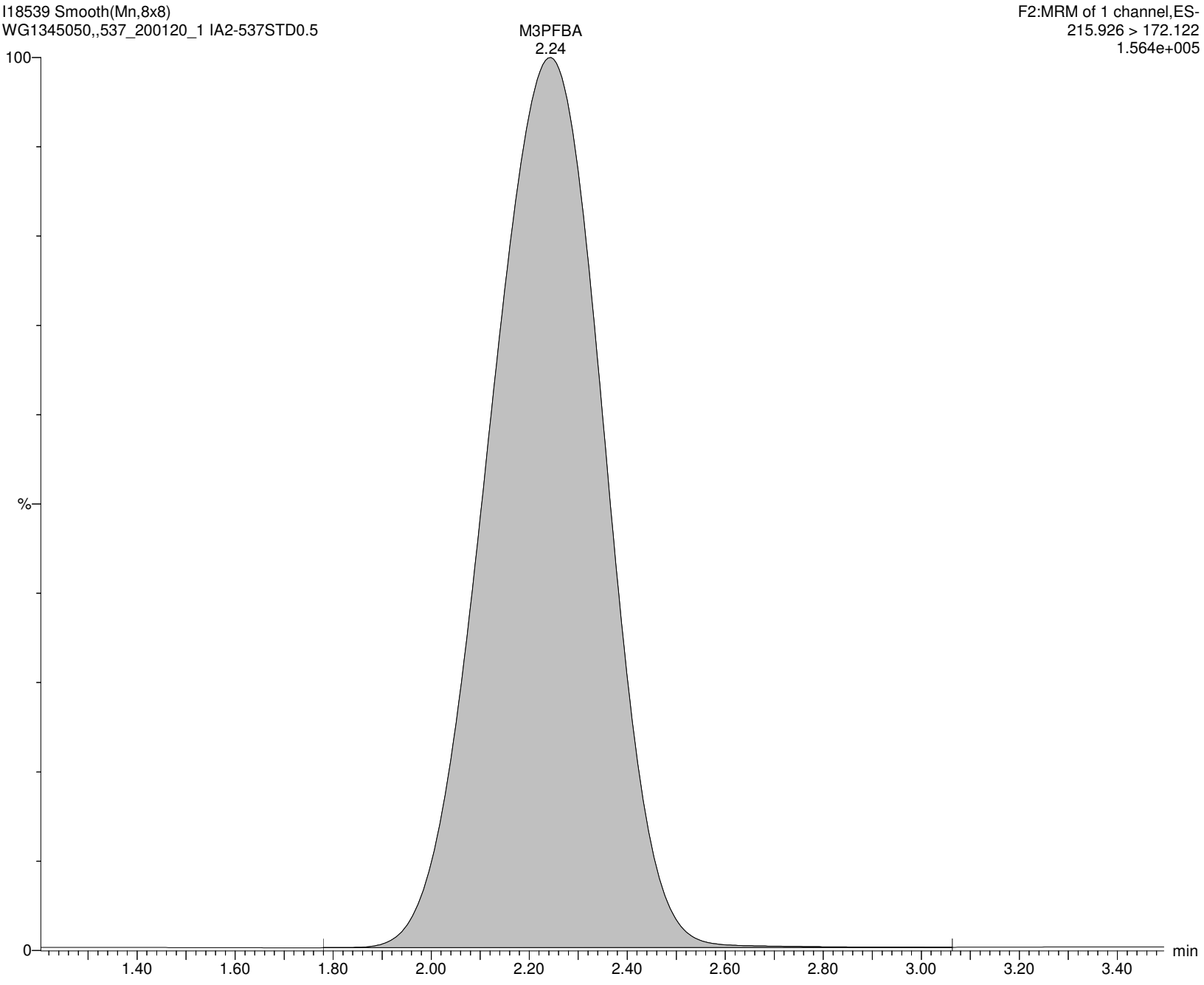

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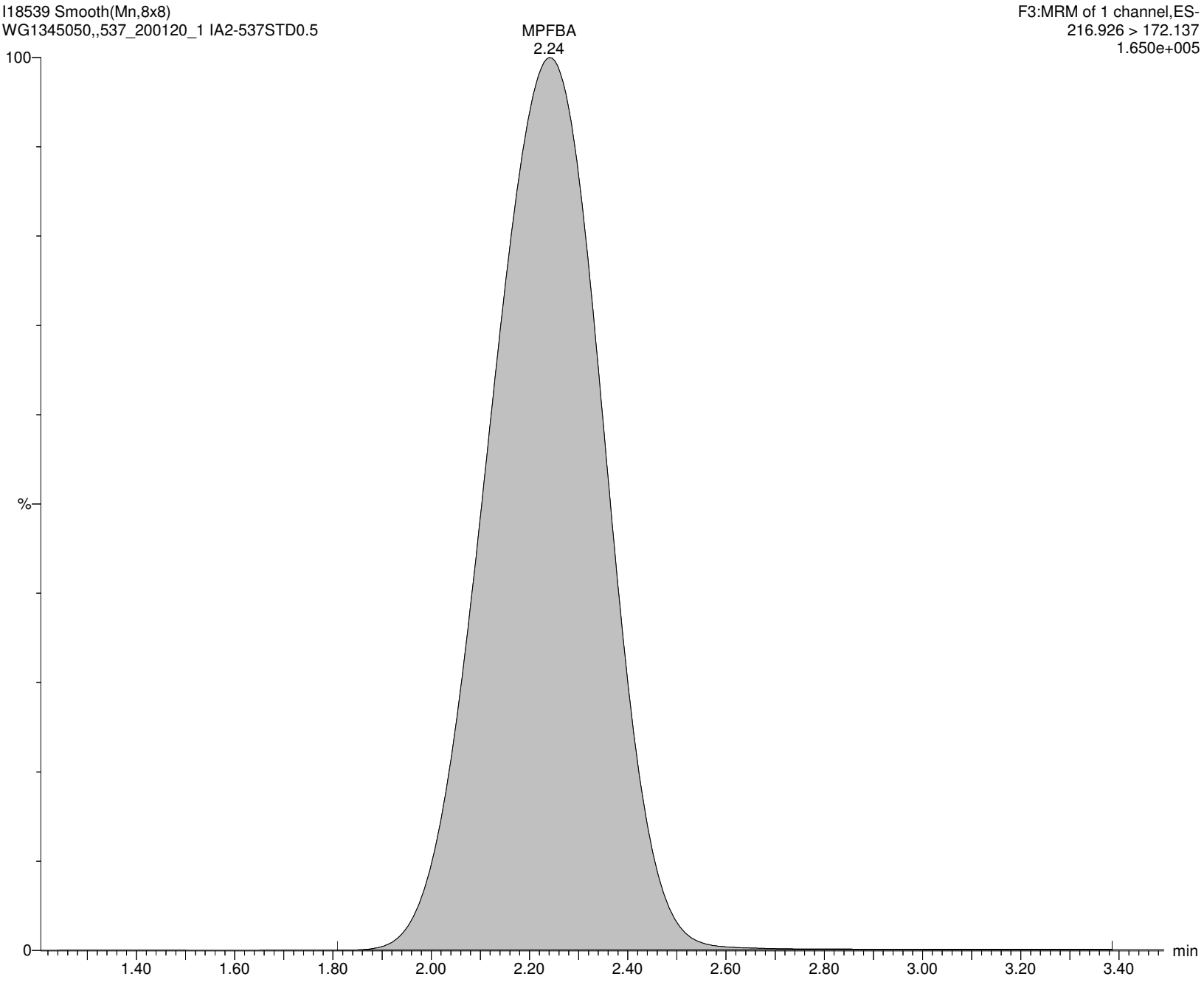

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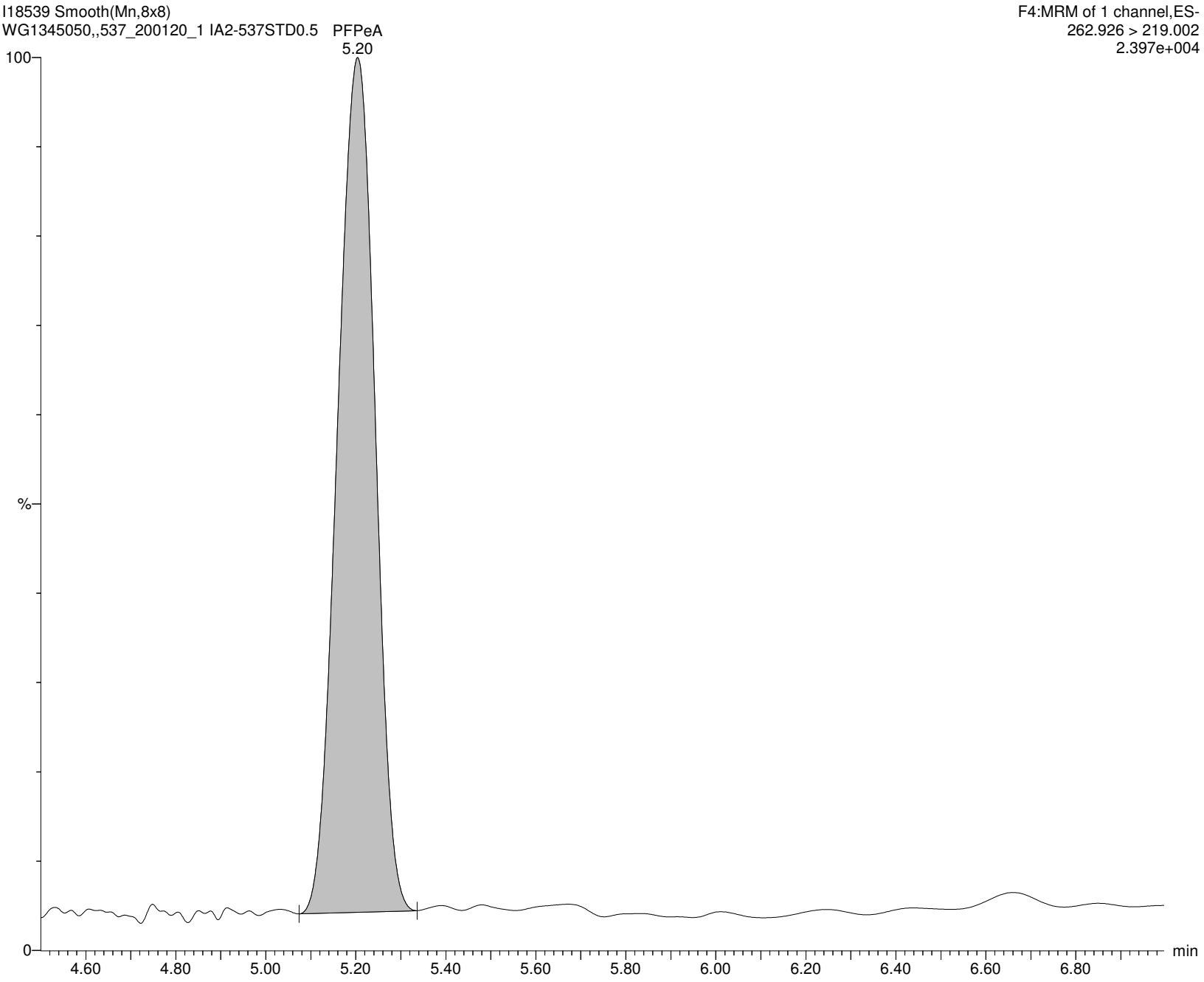

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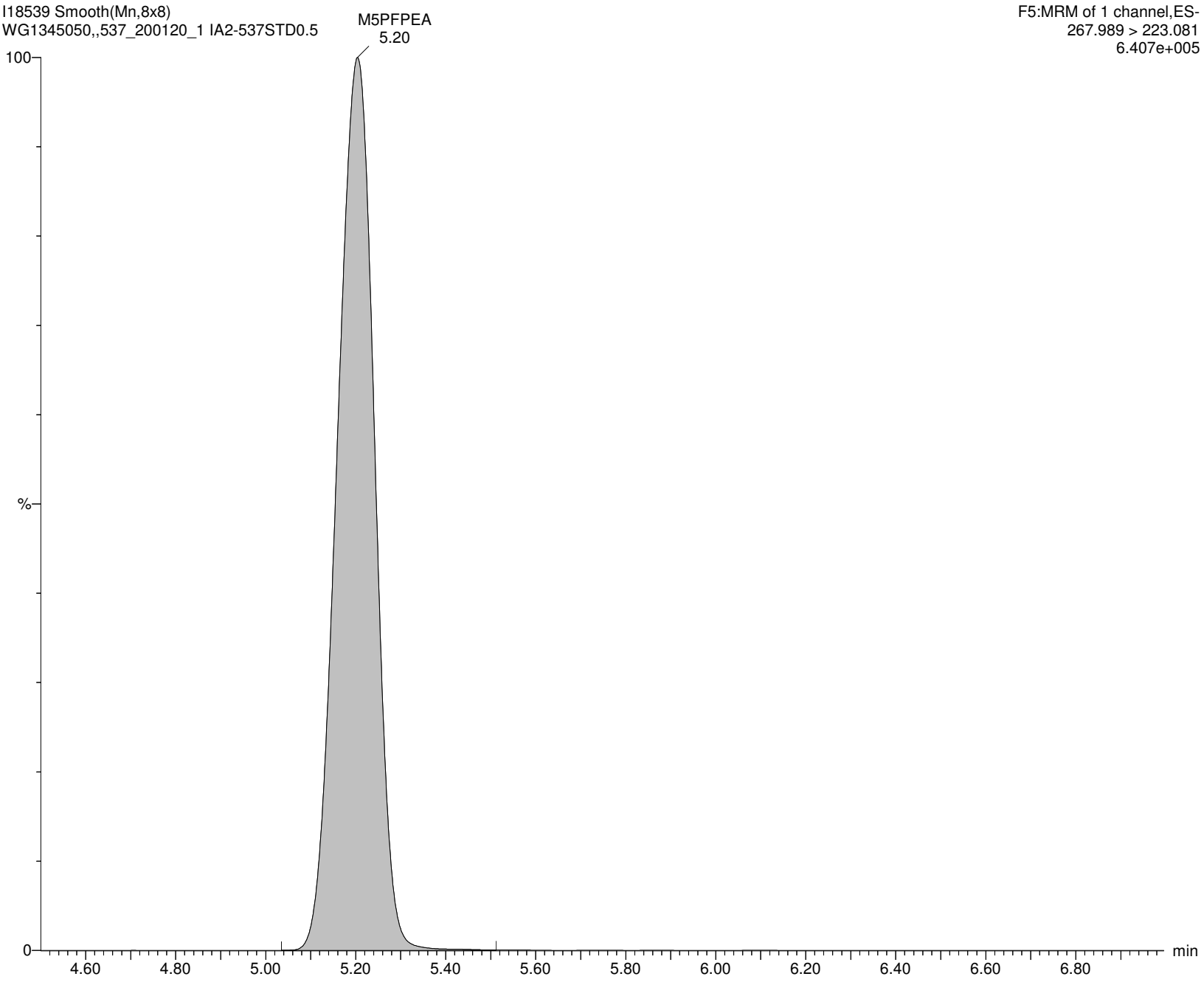

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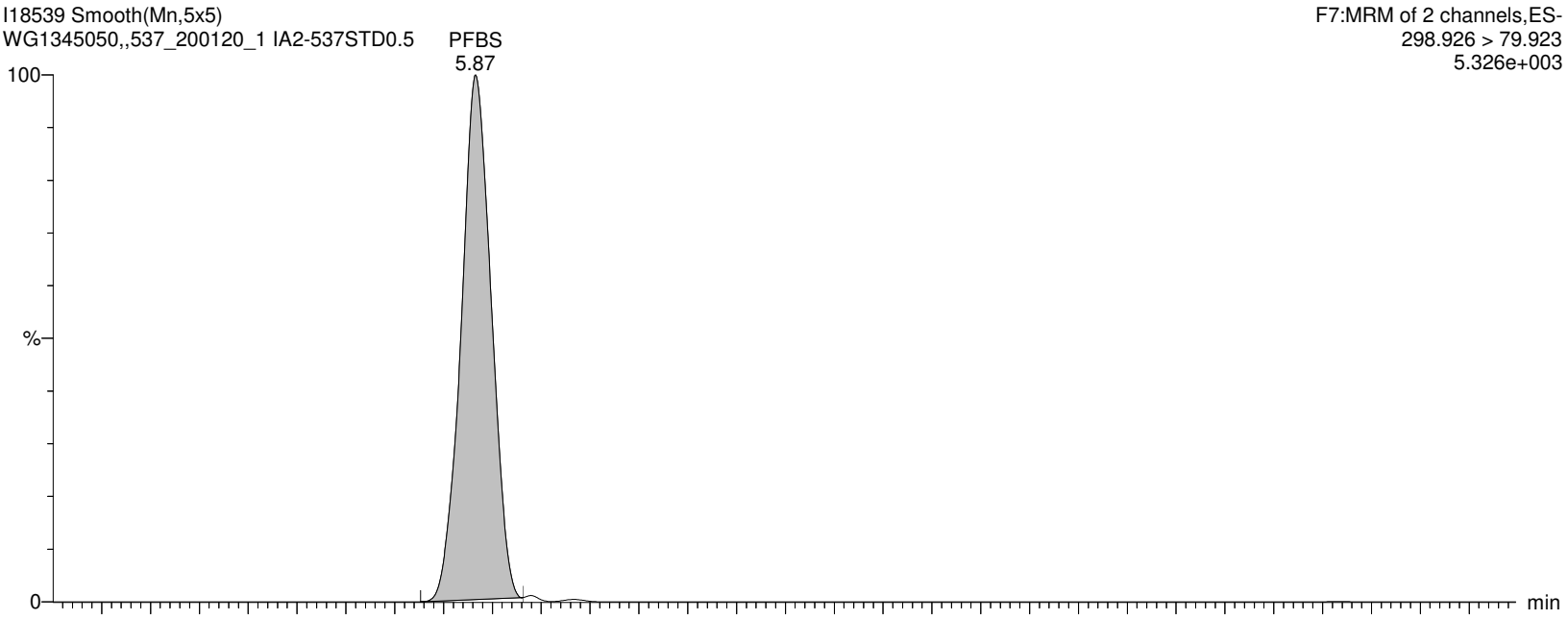
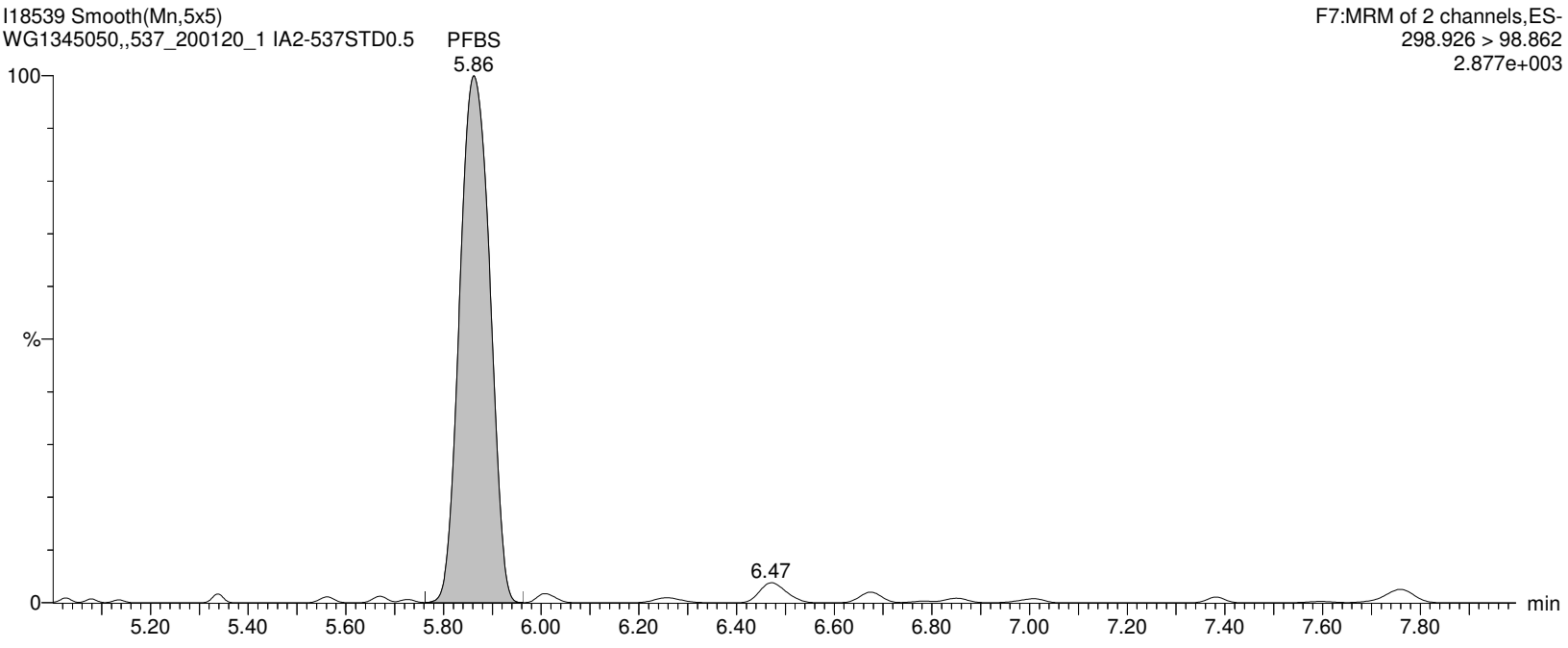
PFBS





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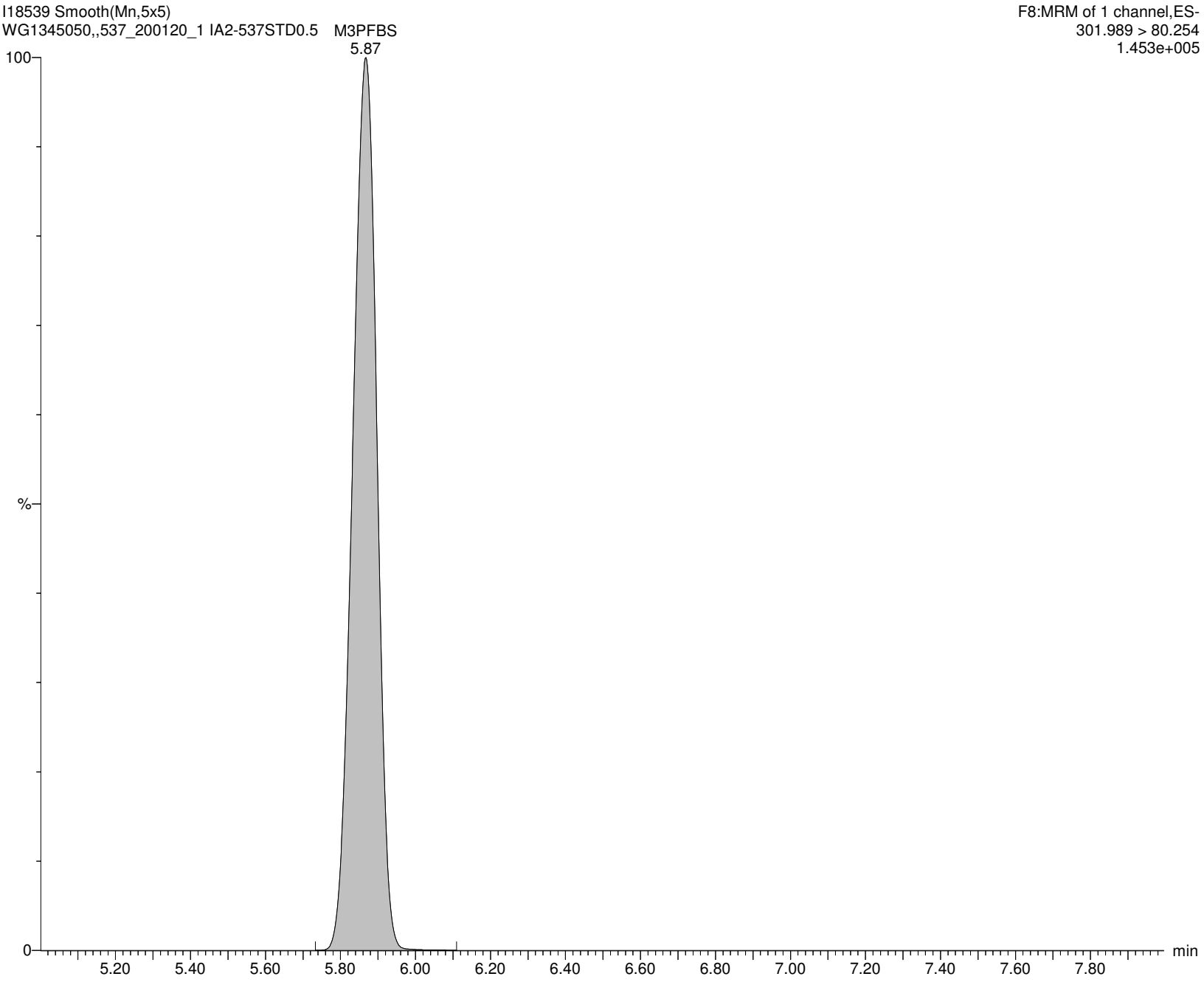
M3PFBS



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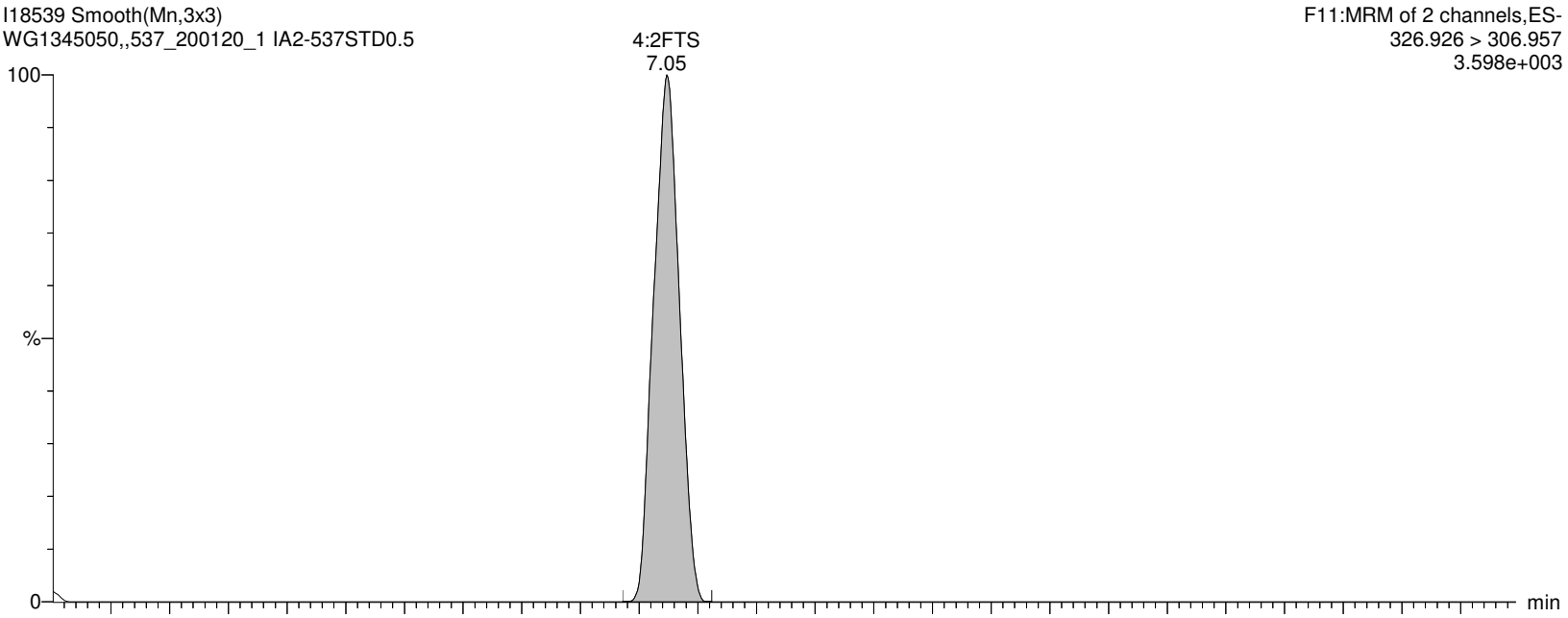
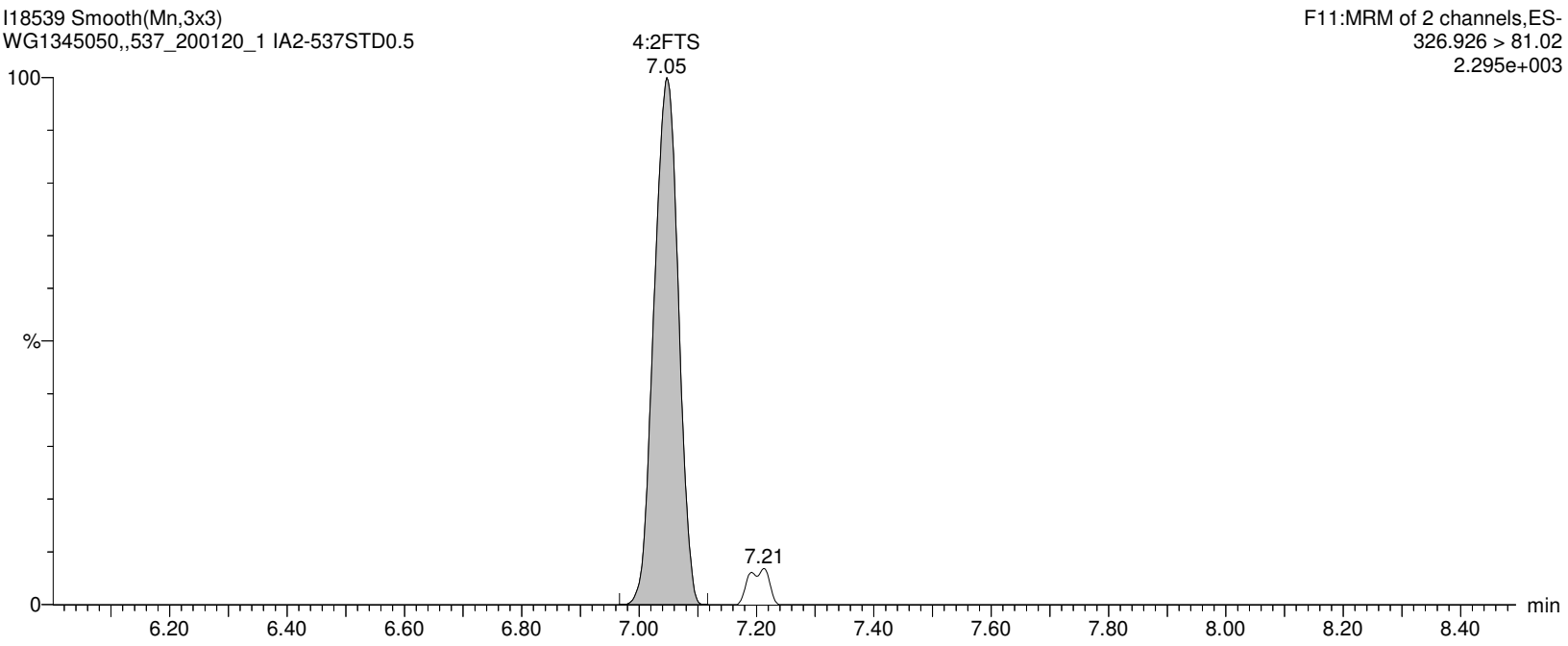
4:2FTS





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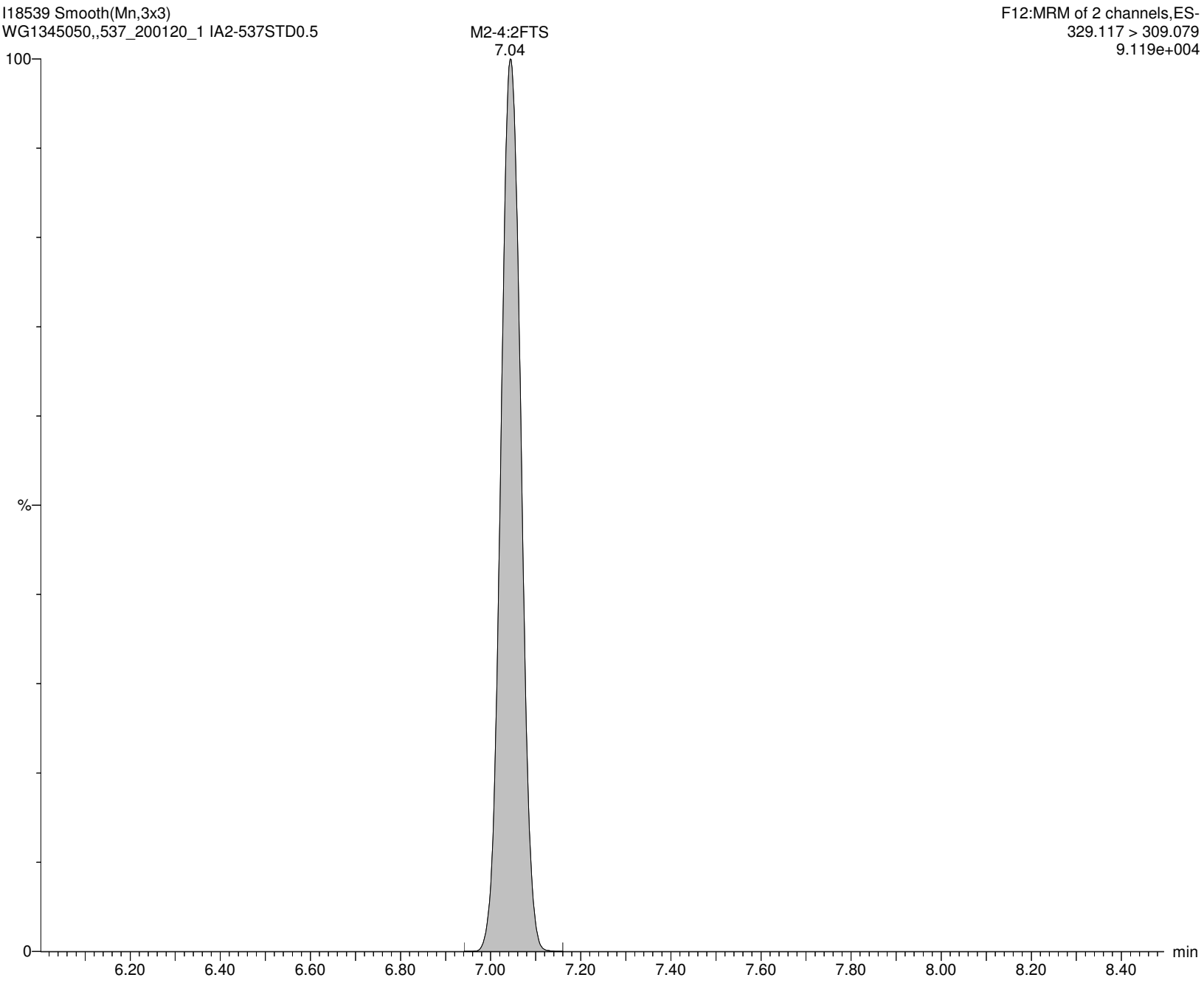
M2-4:2FTS



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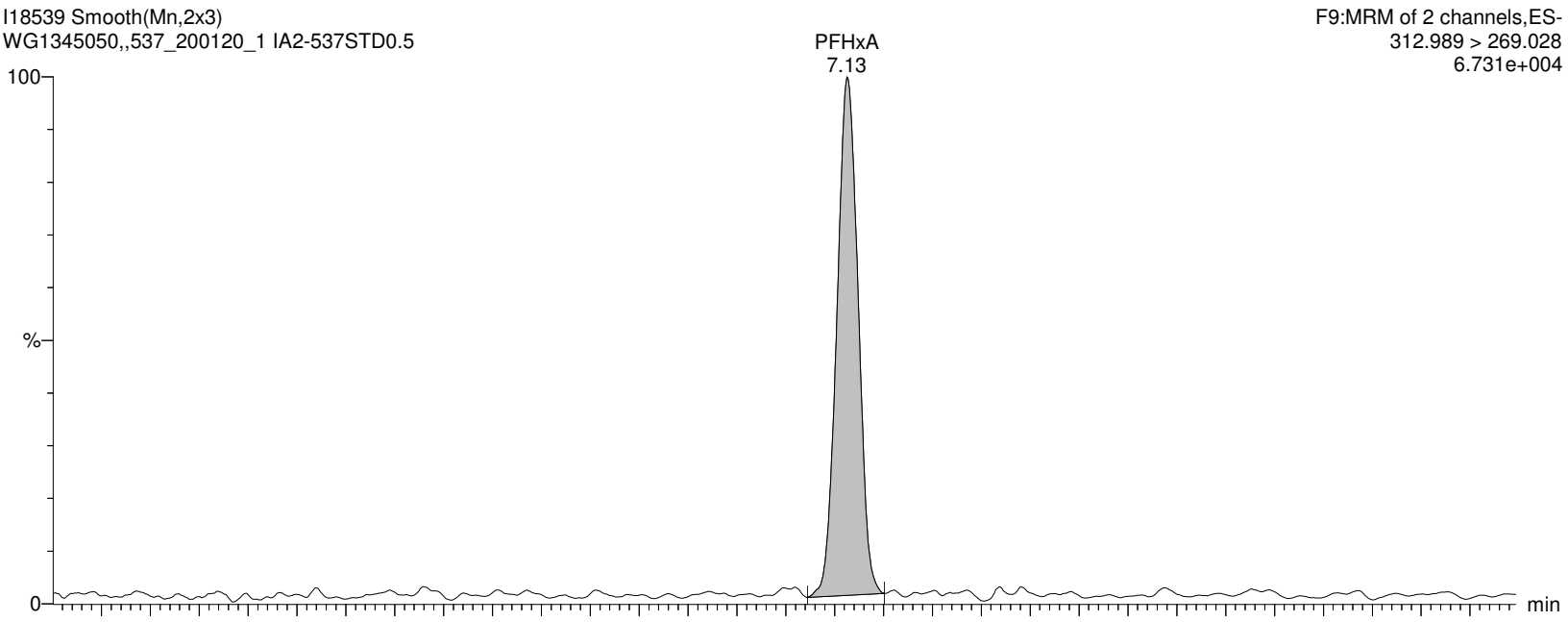

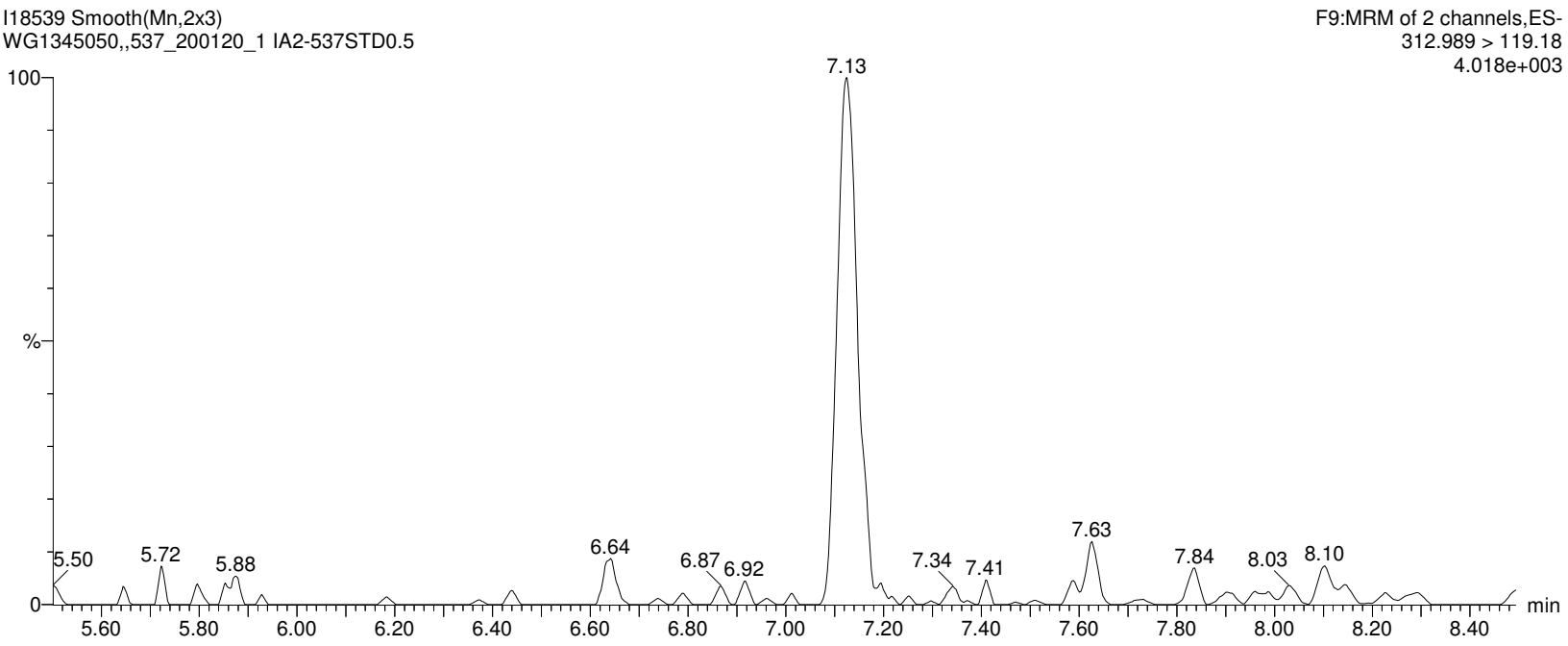

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, February 28, 2020 09:27:59 Eastern Standard Time

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Date: 27-Feb-2020
Time: 16:47:48
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Vial: 1:B,5
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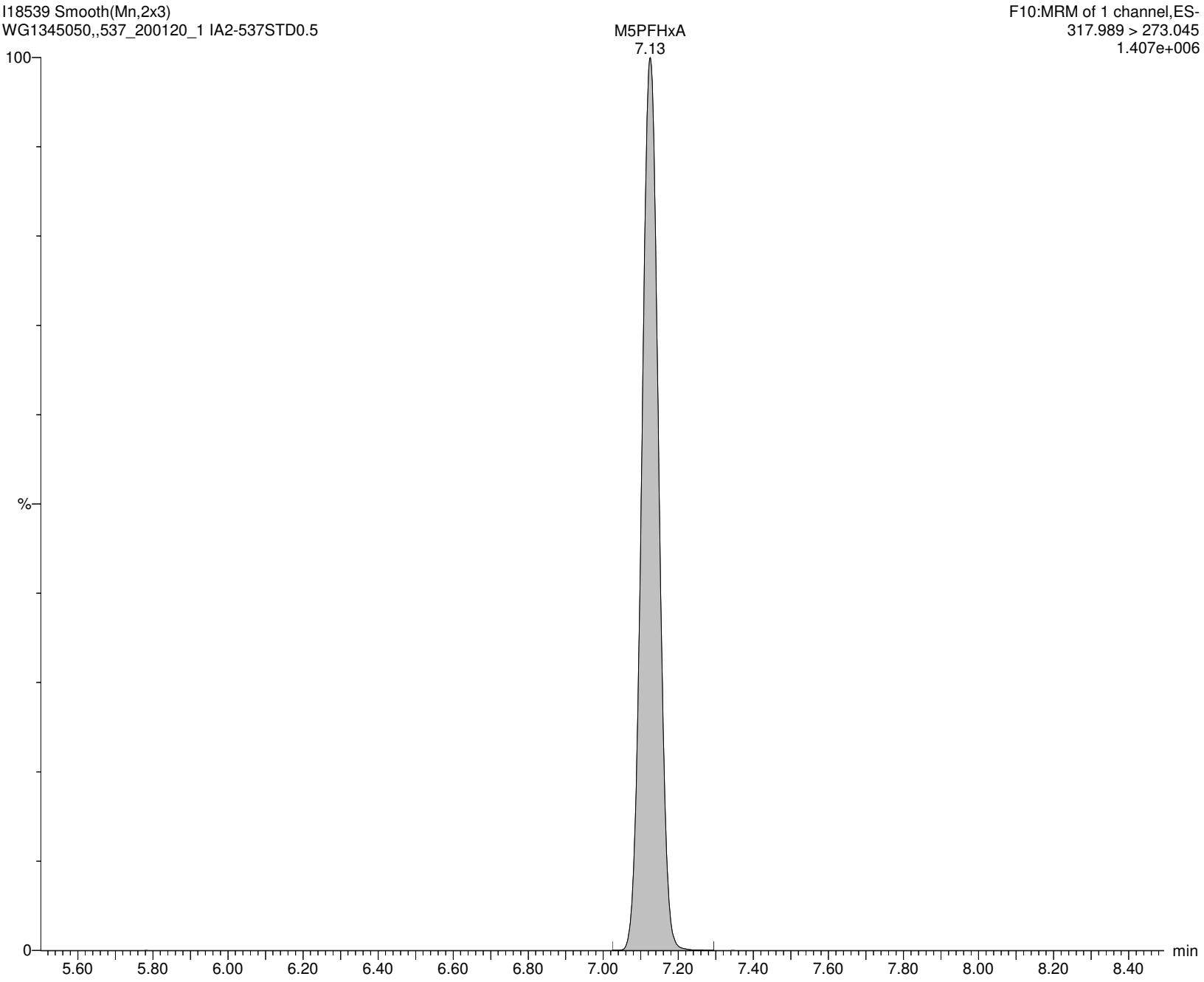

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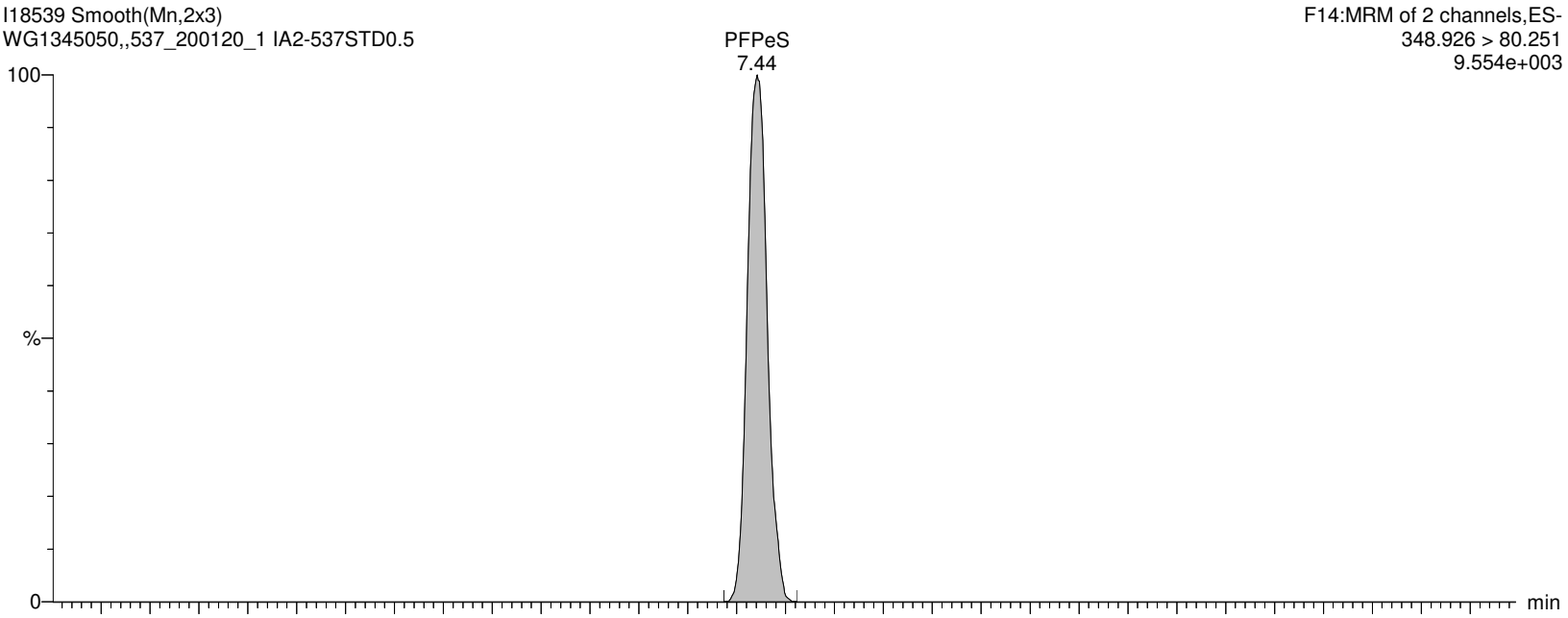

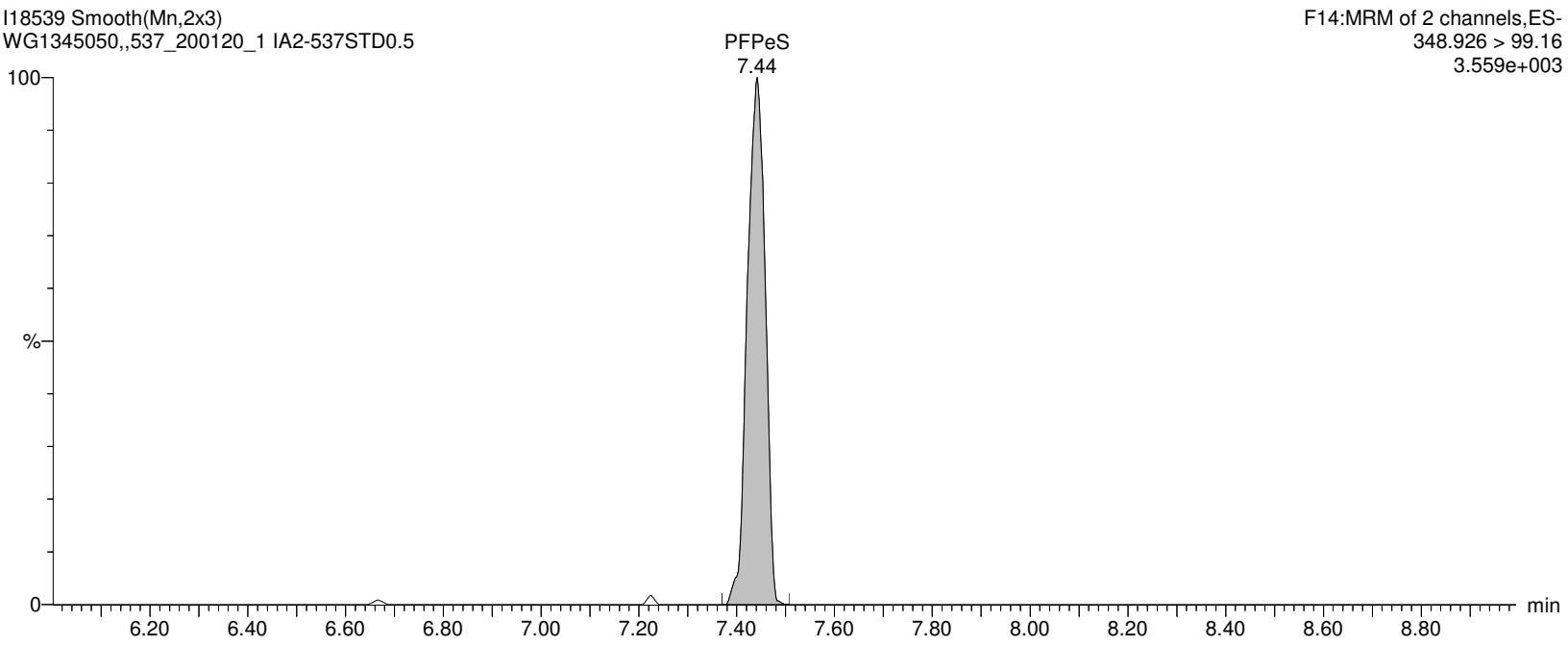

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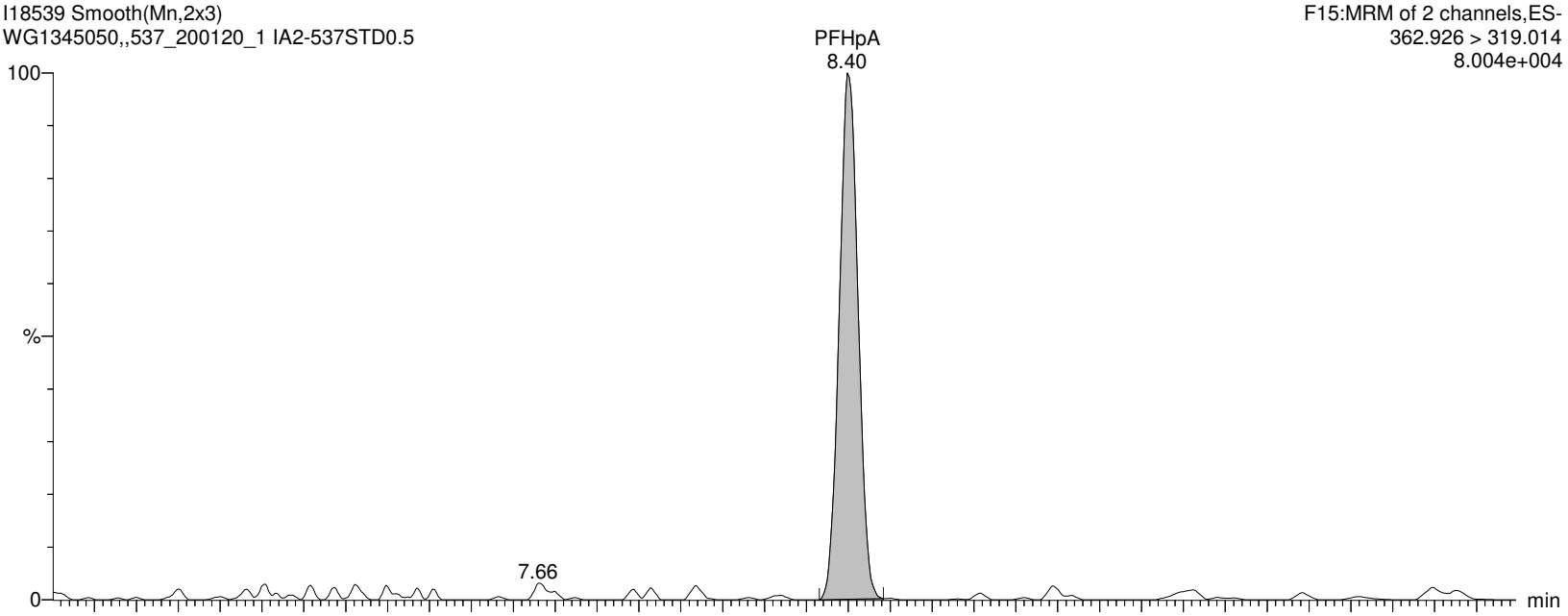

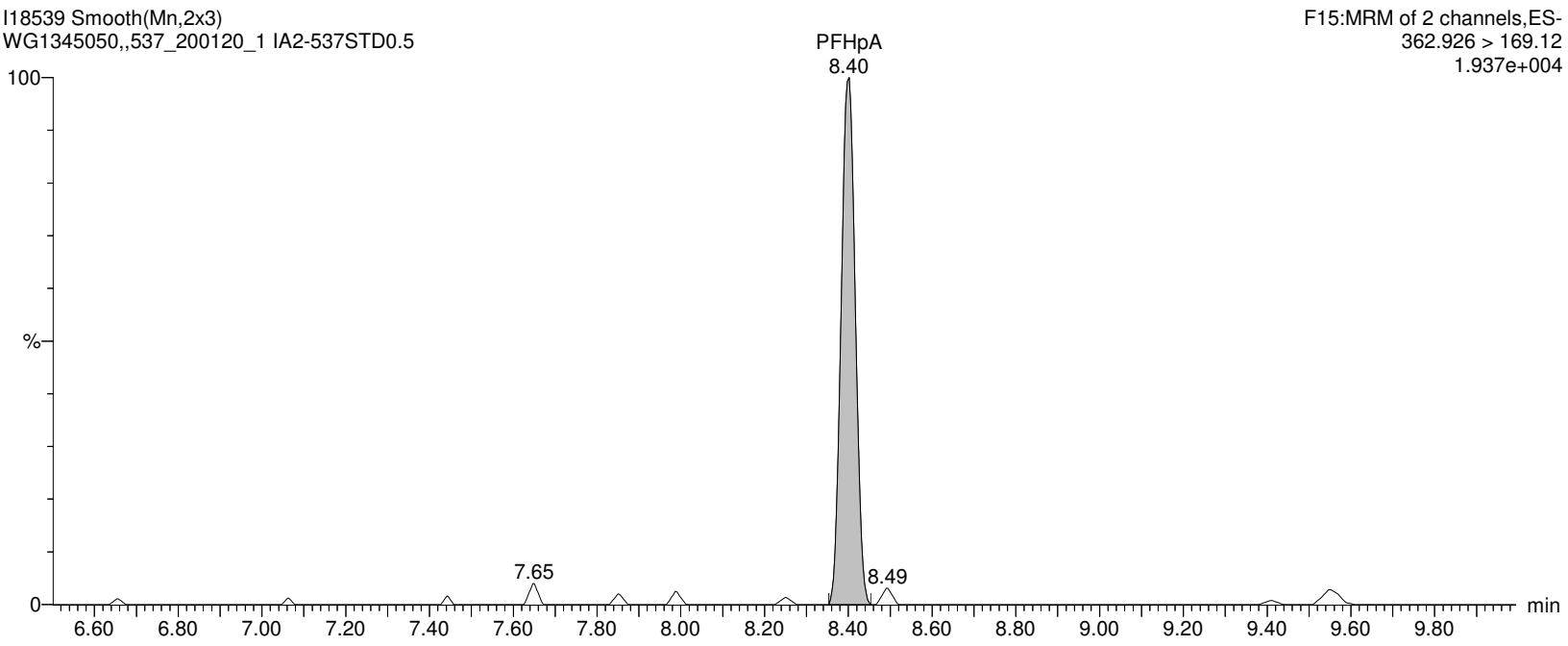

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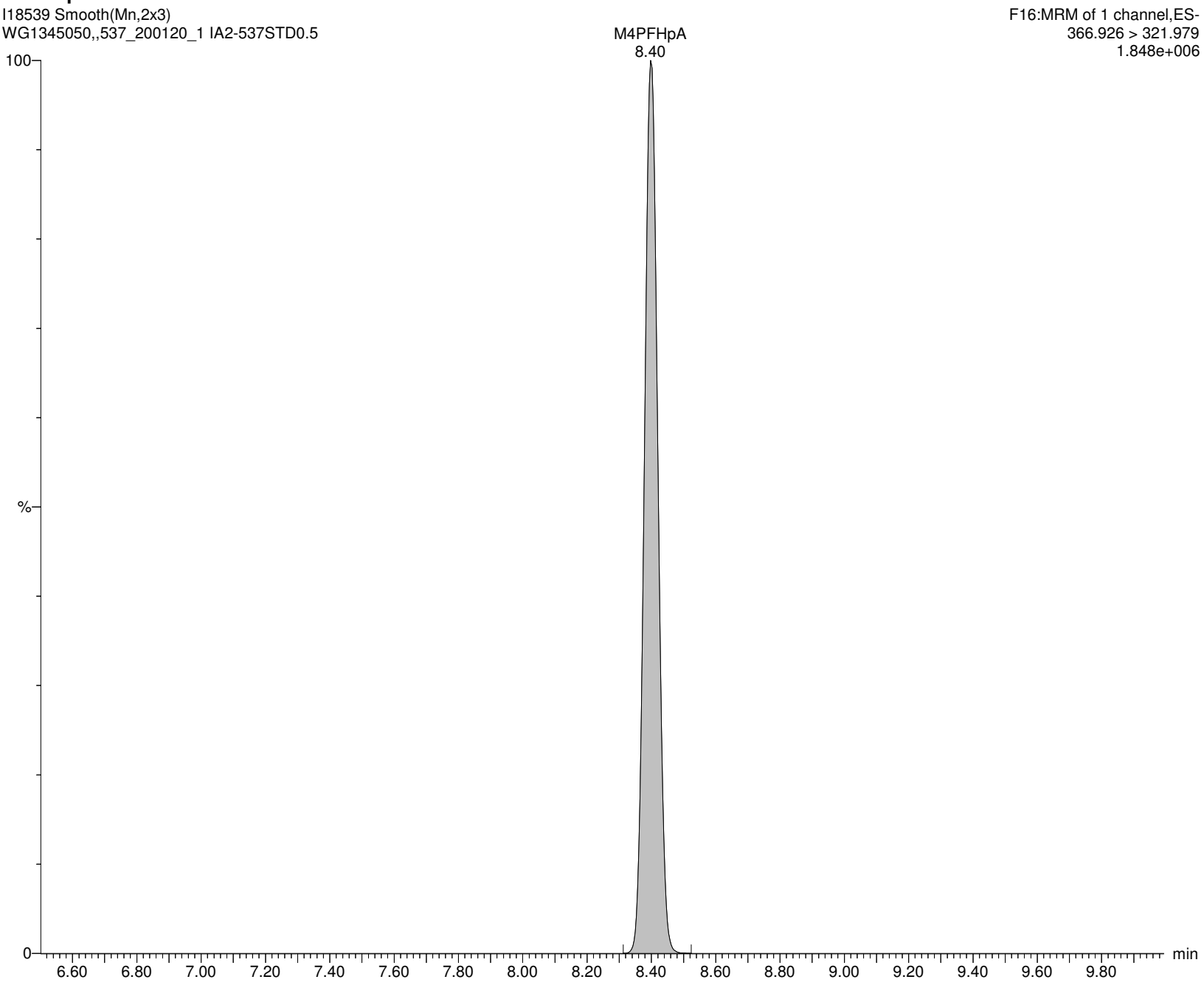

all concentration units in (ng/mL)

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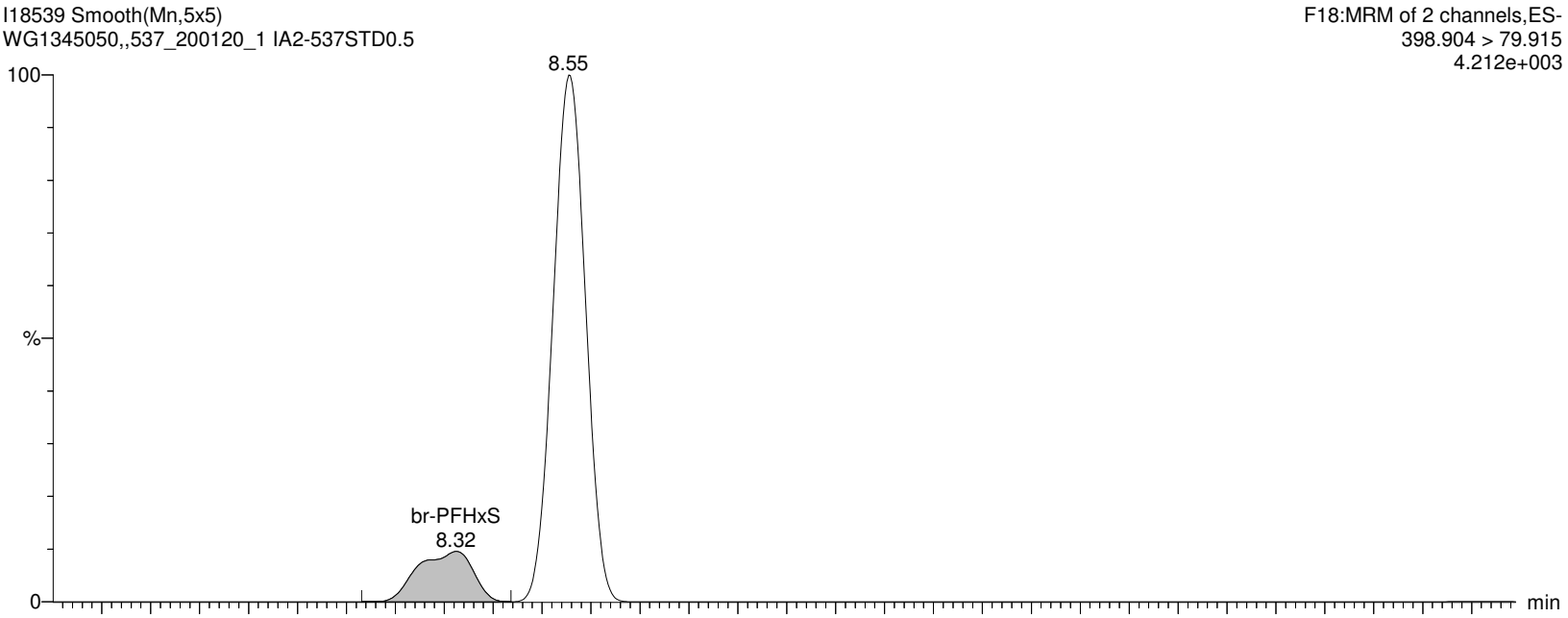

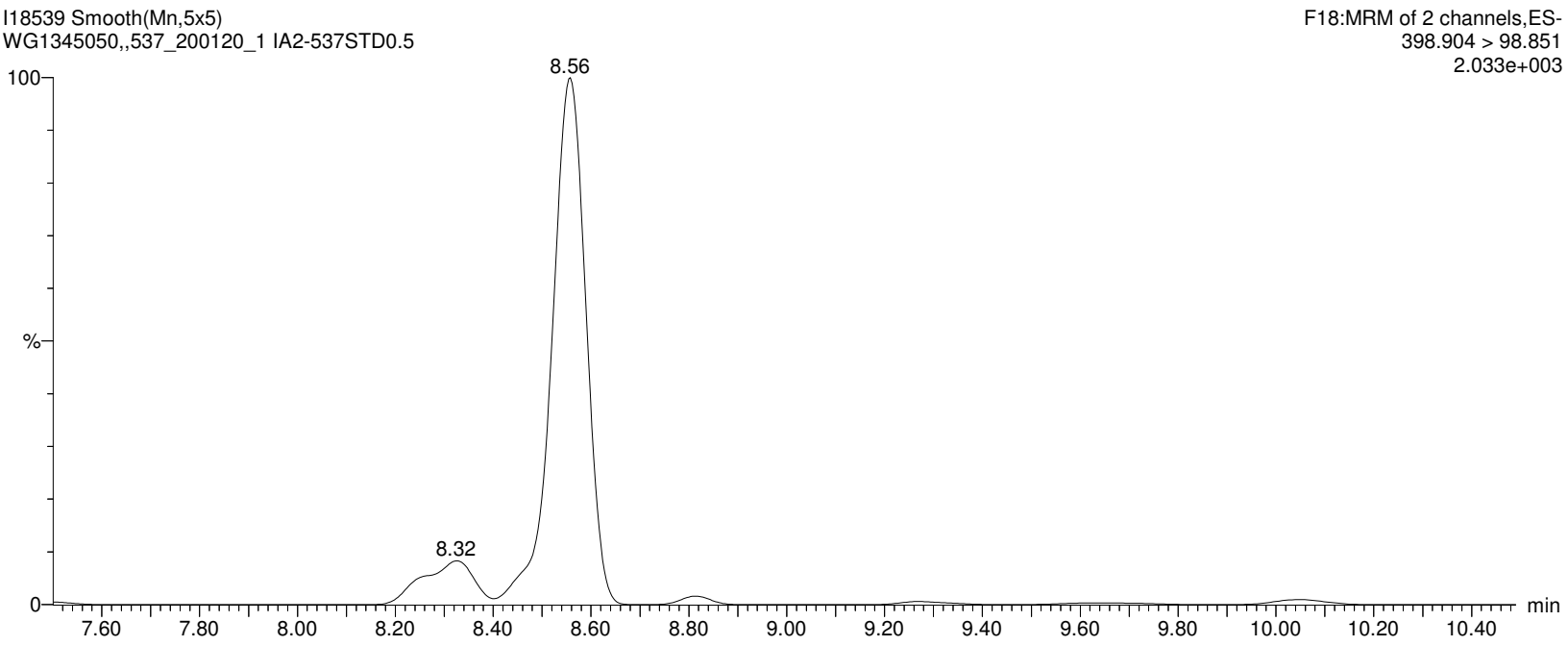

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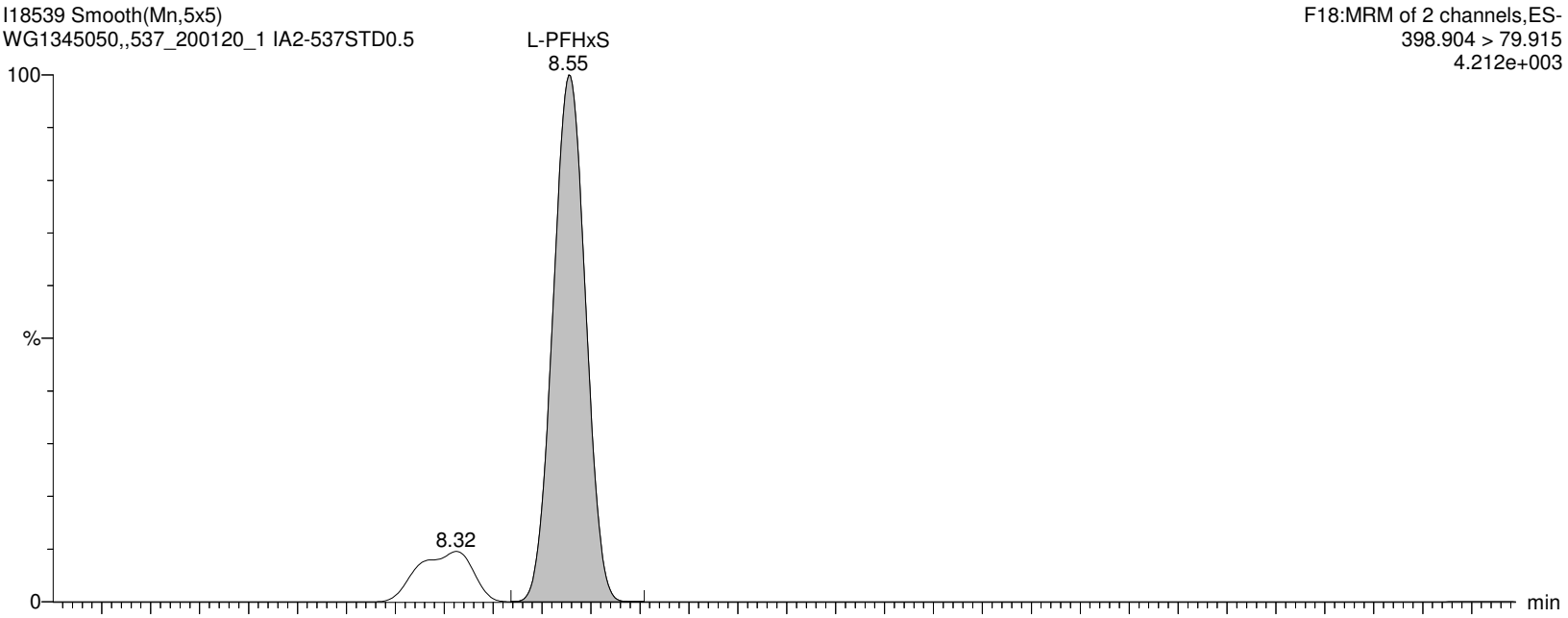

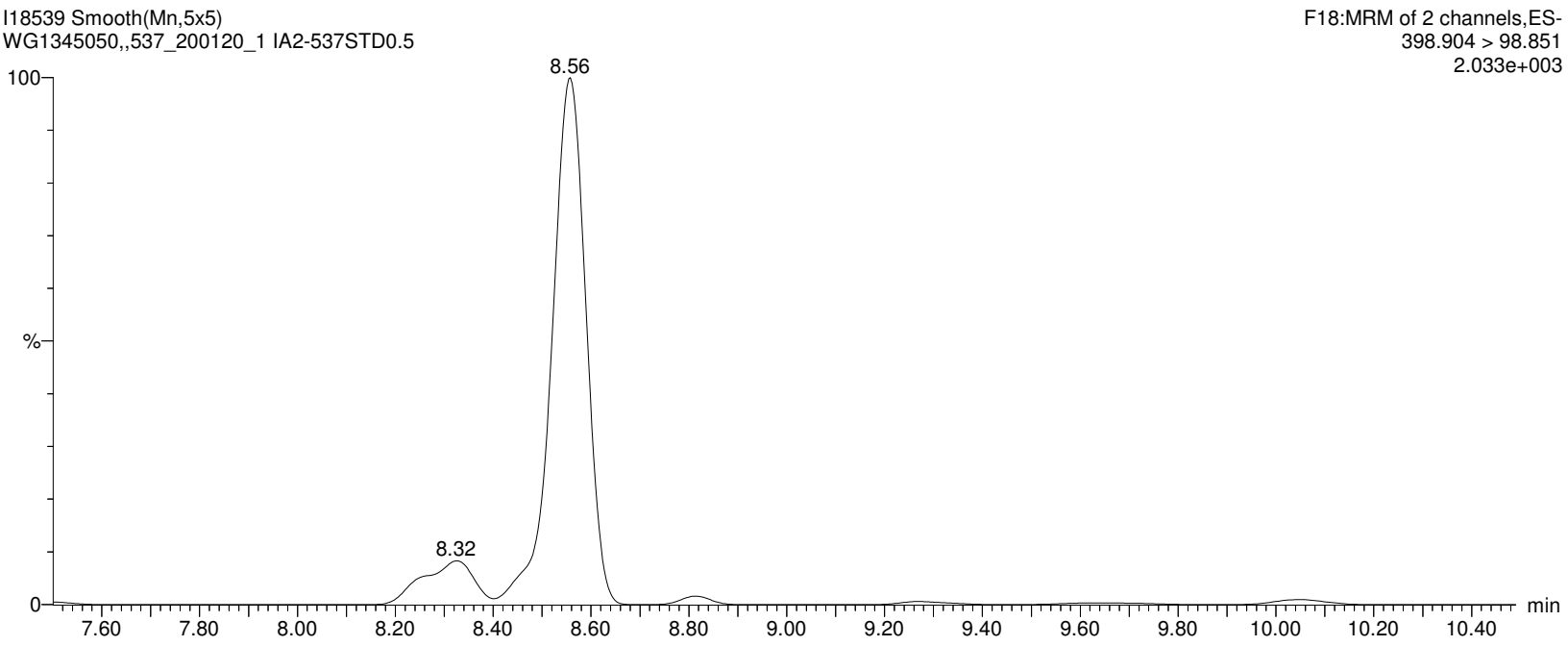

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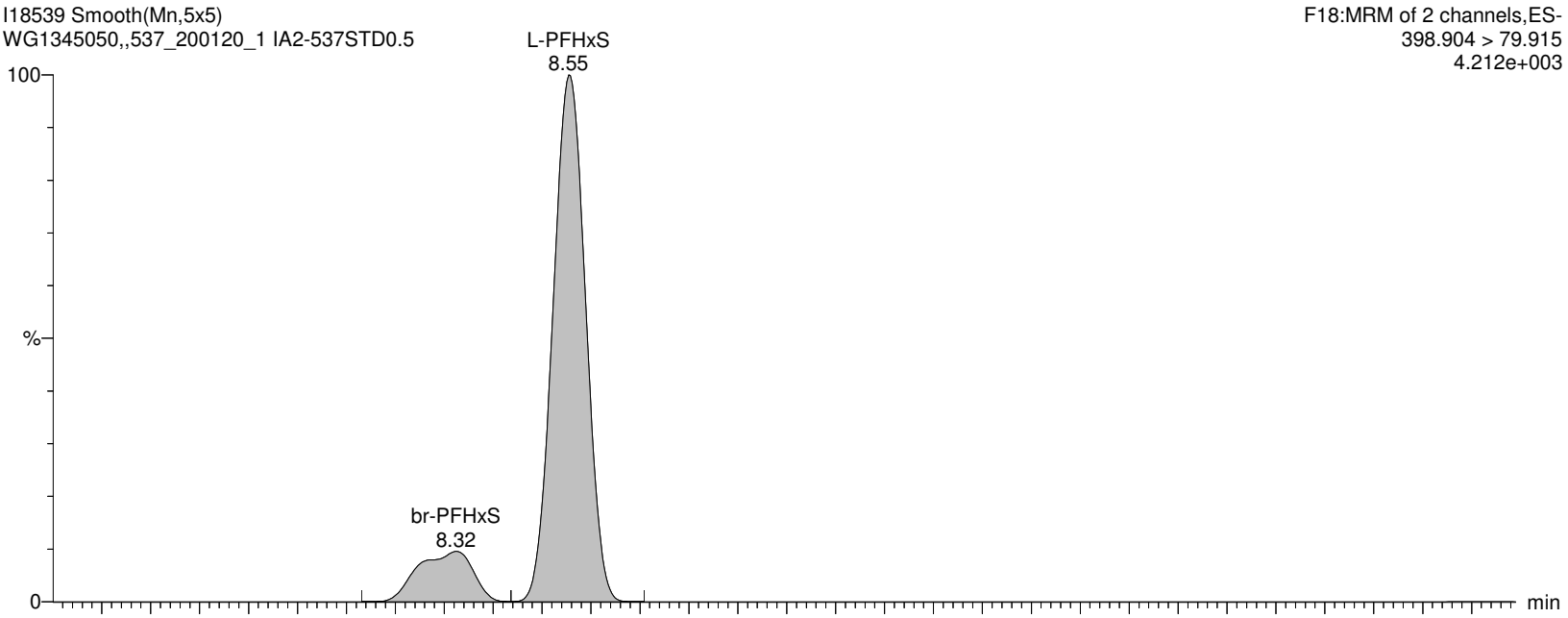

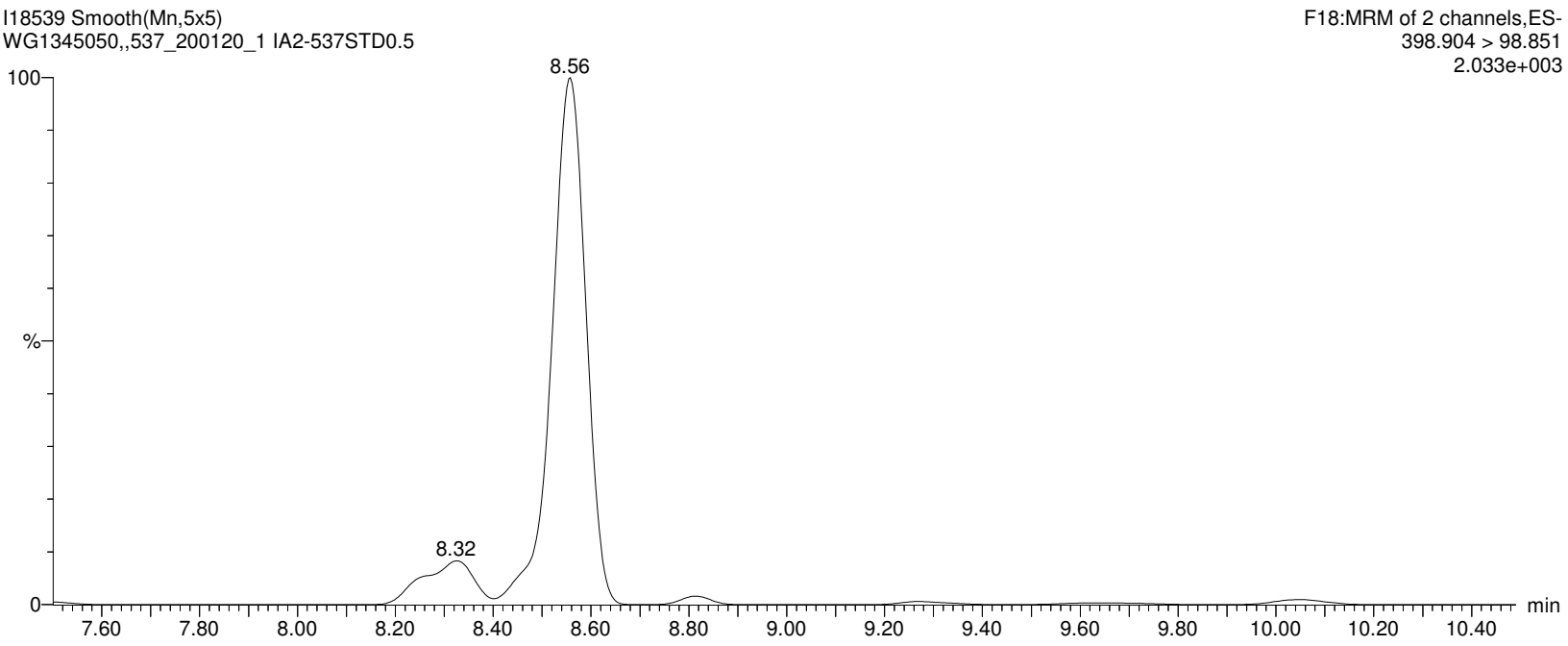

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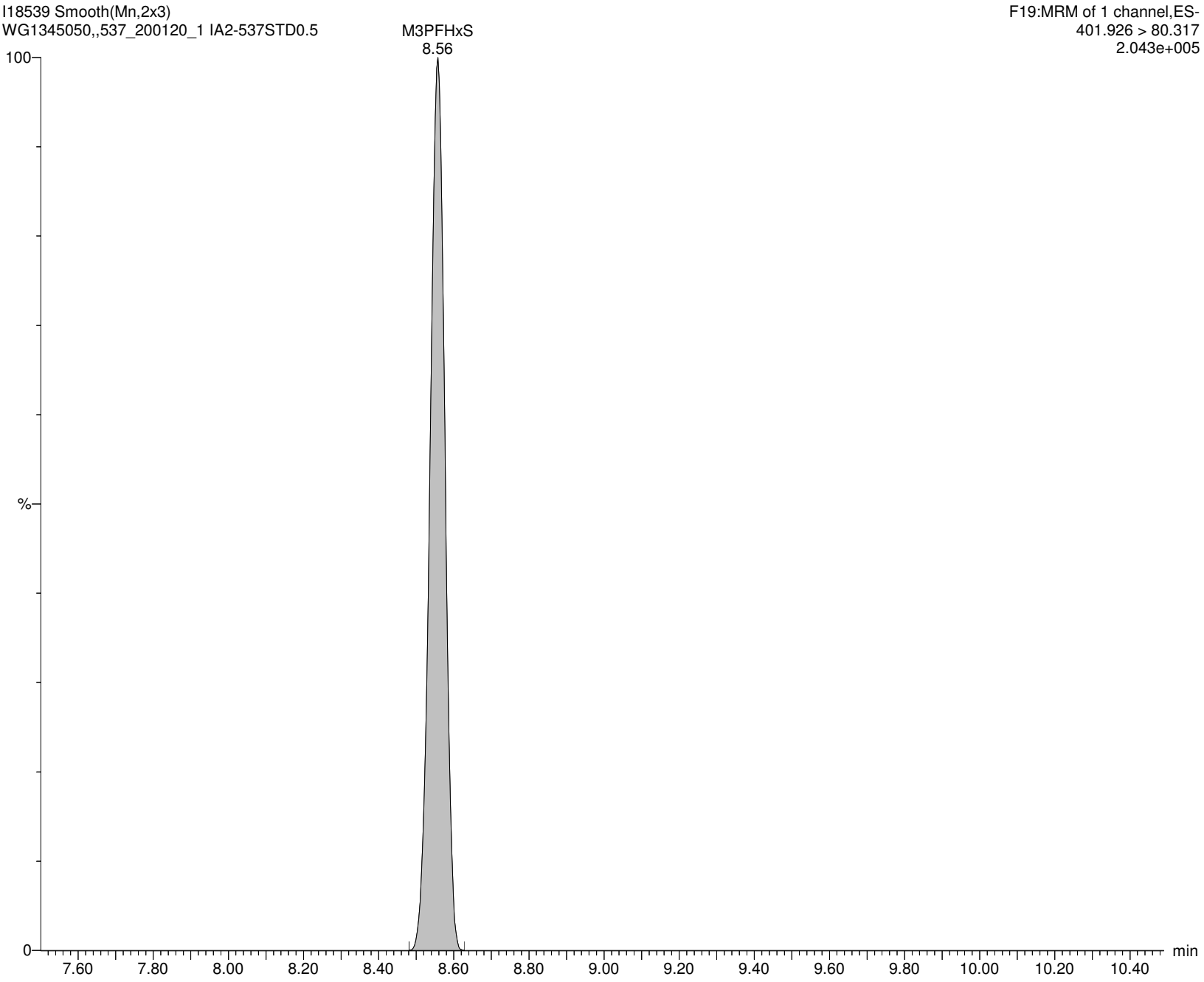

all concentration units in (ng/mL)

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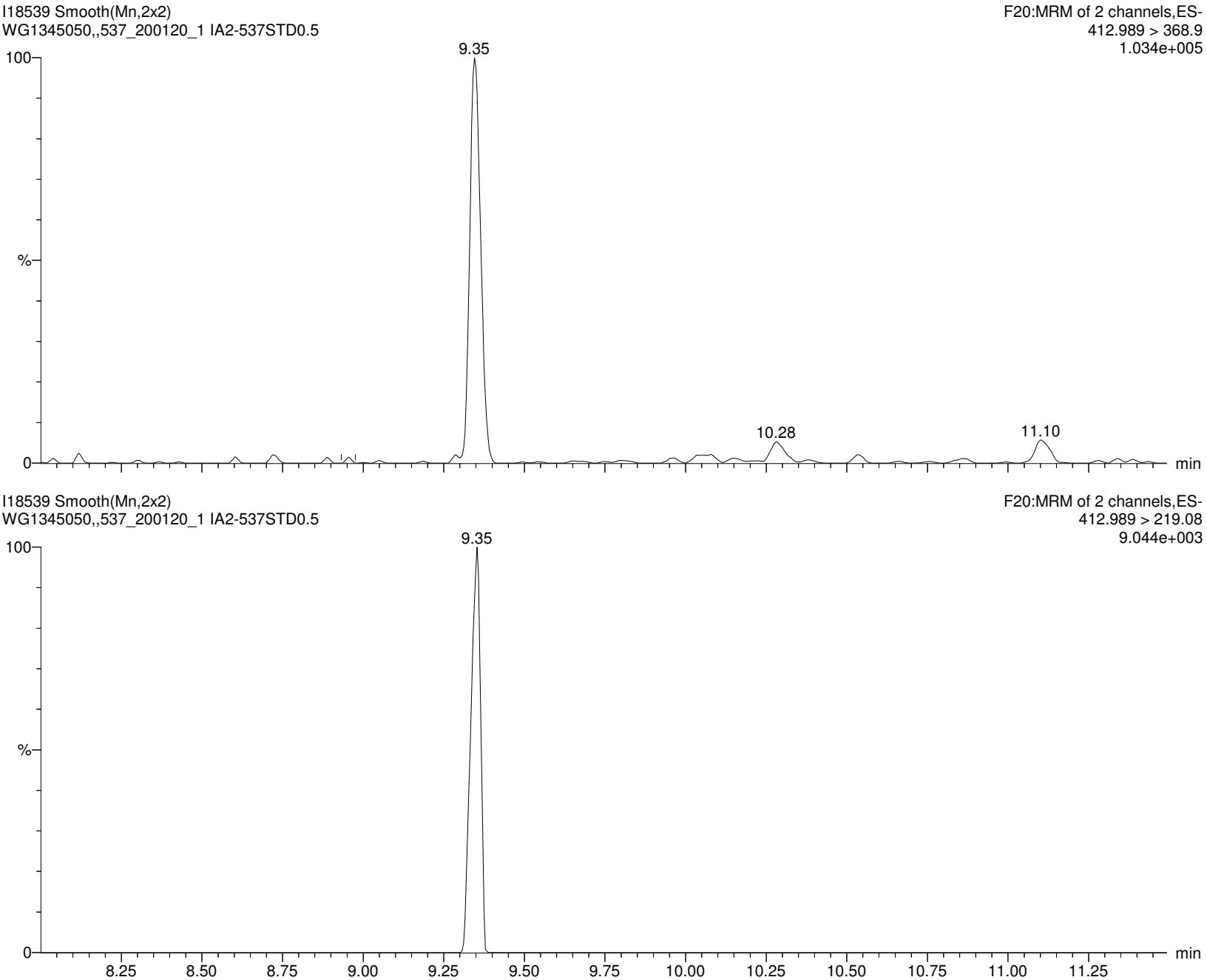

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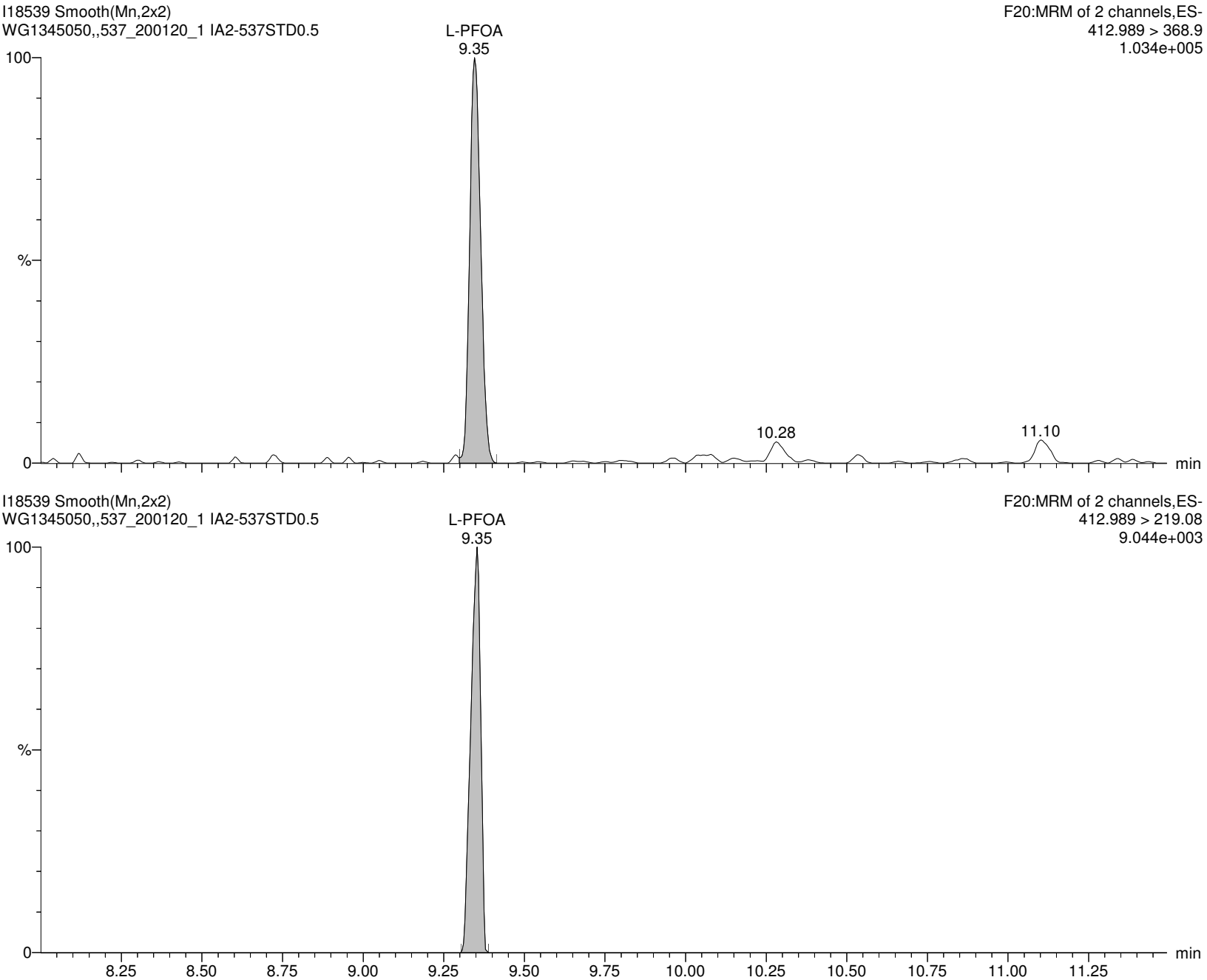

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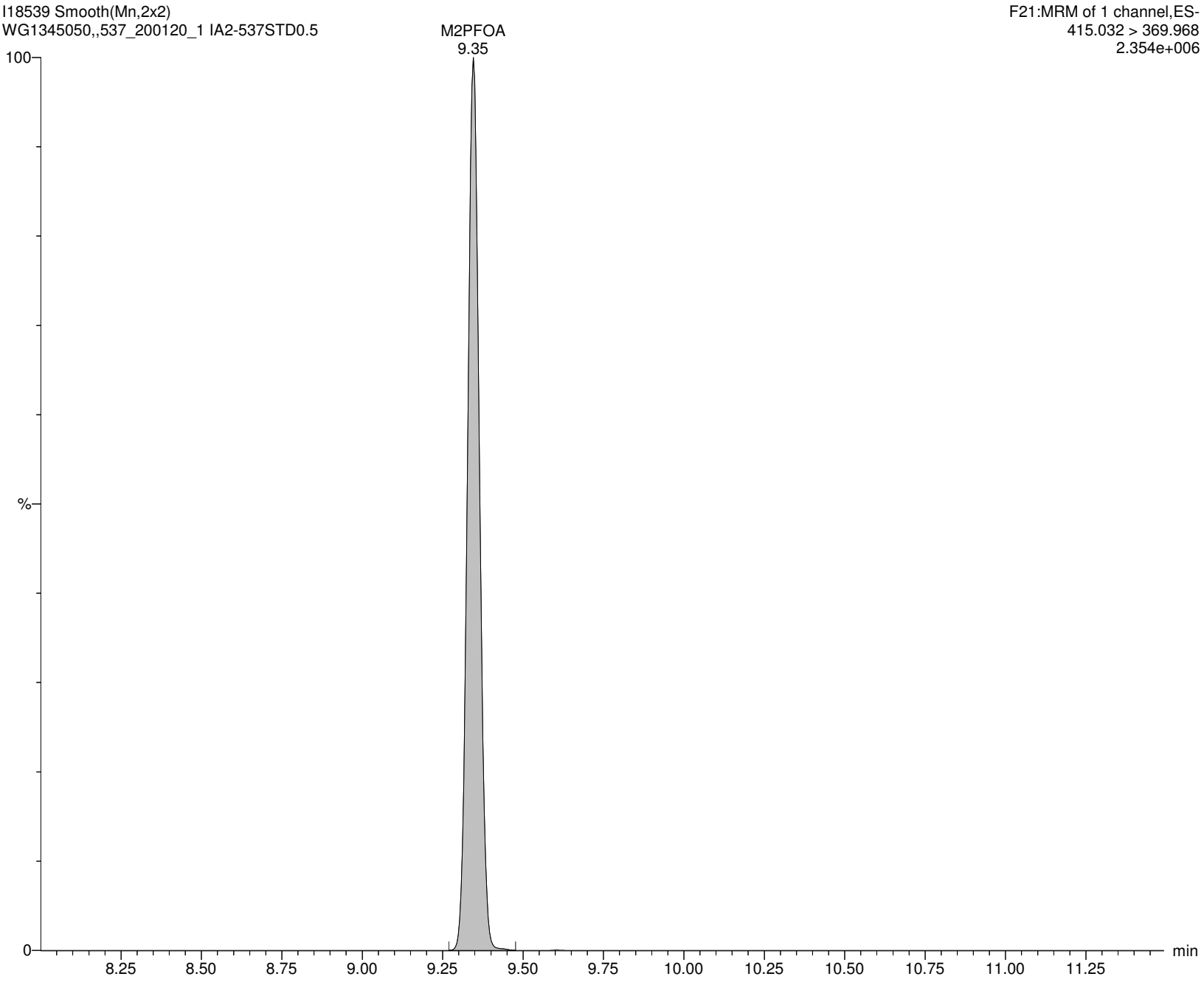

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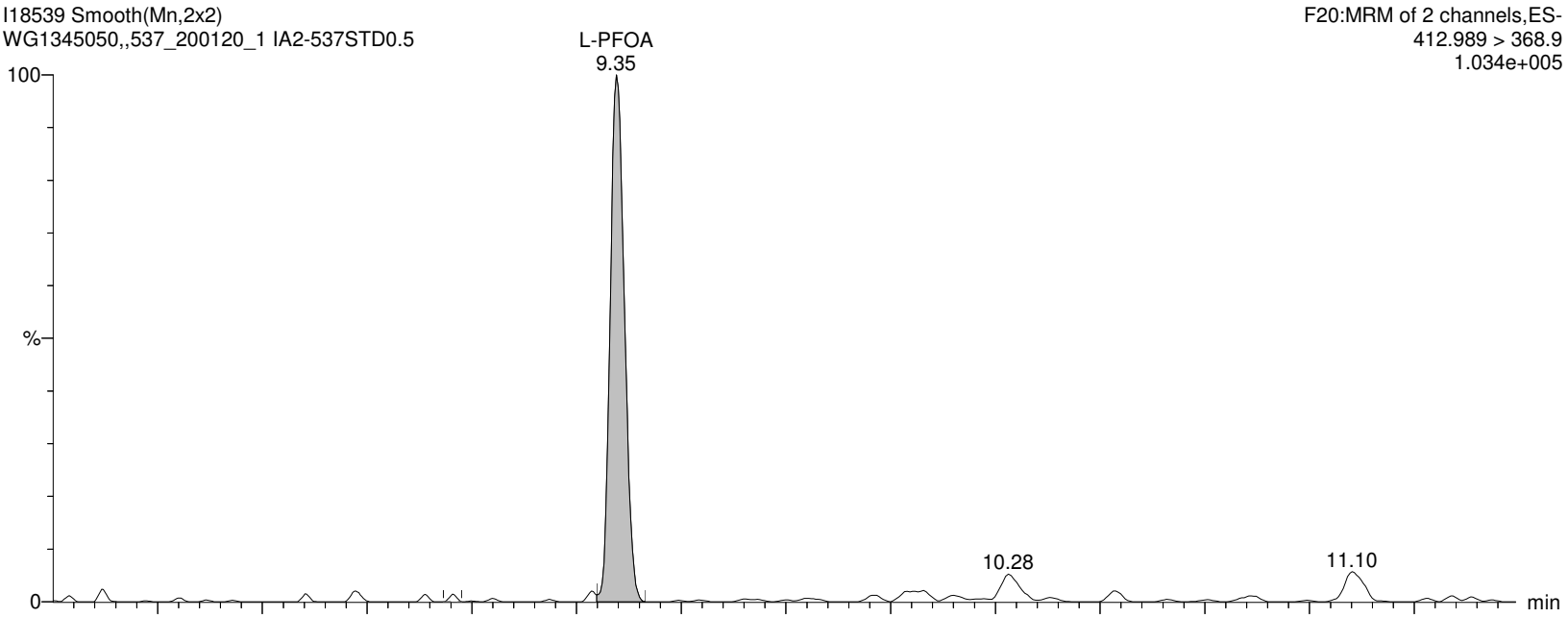

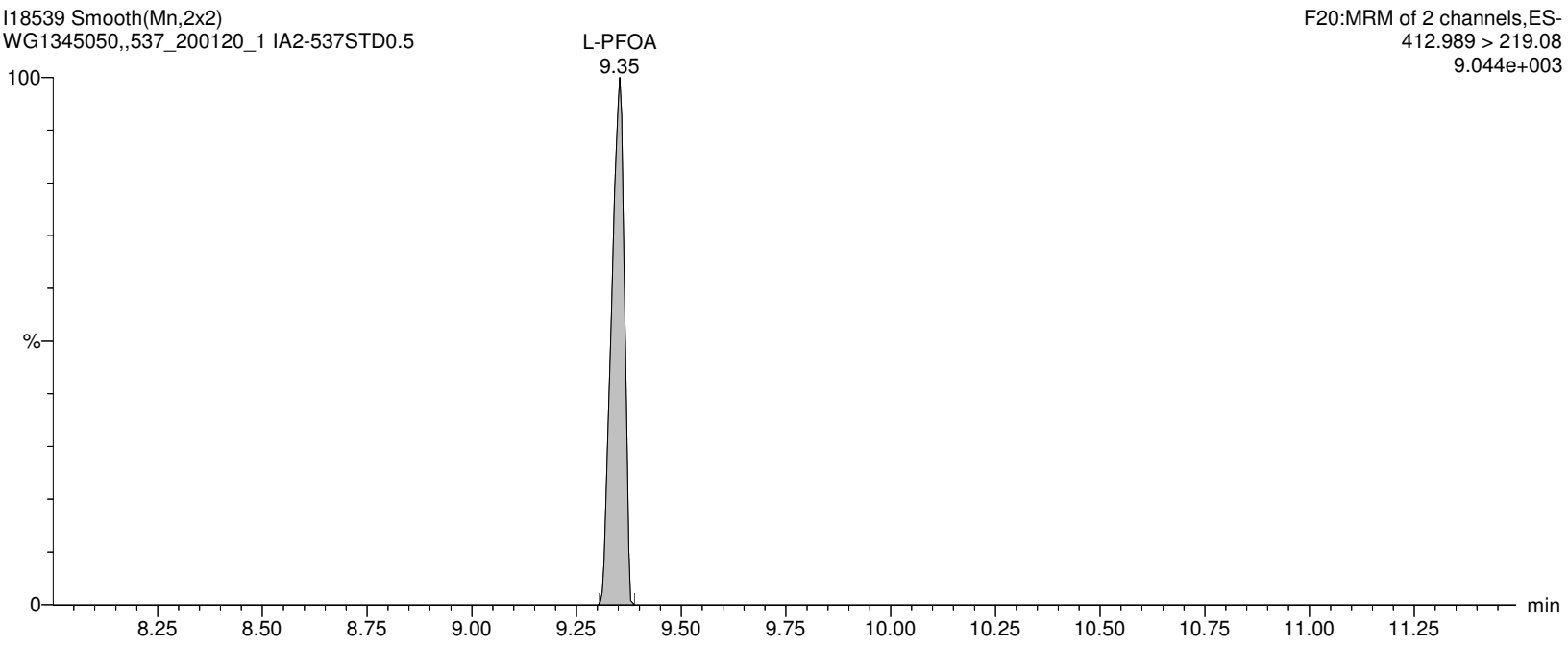

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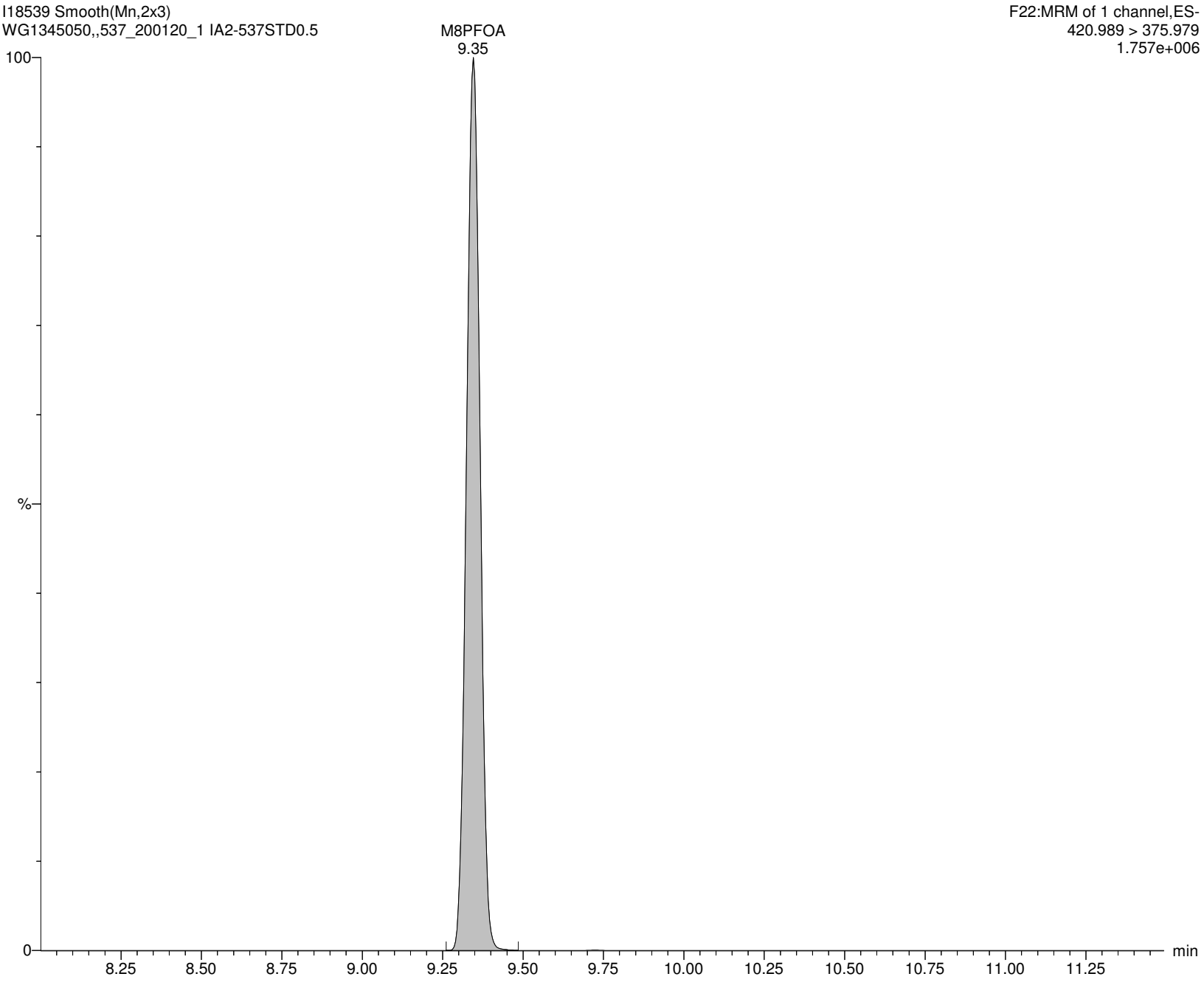

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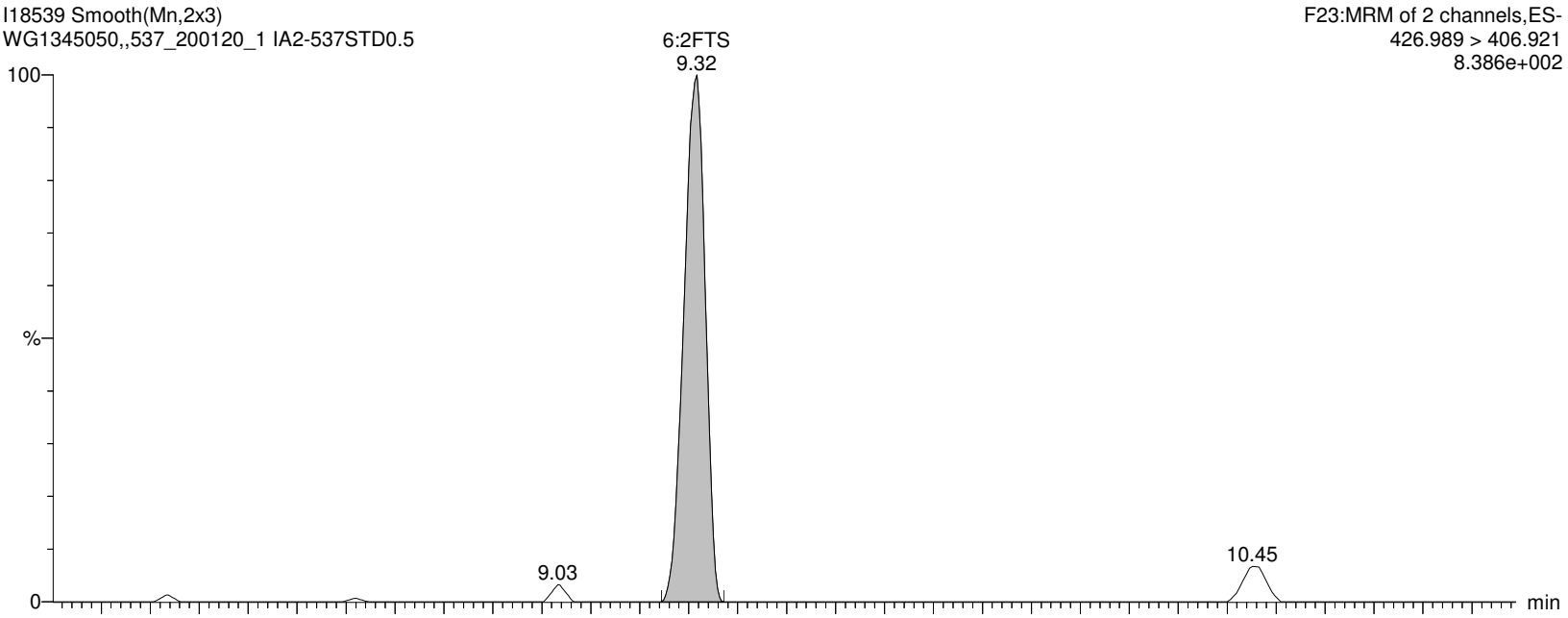

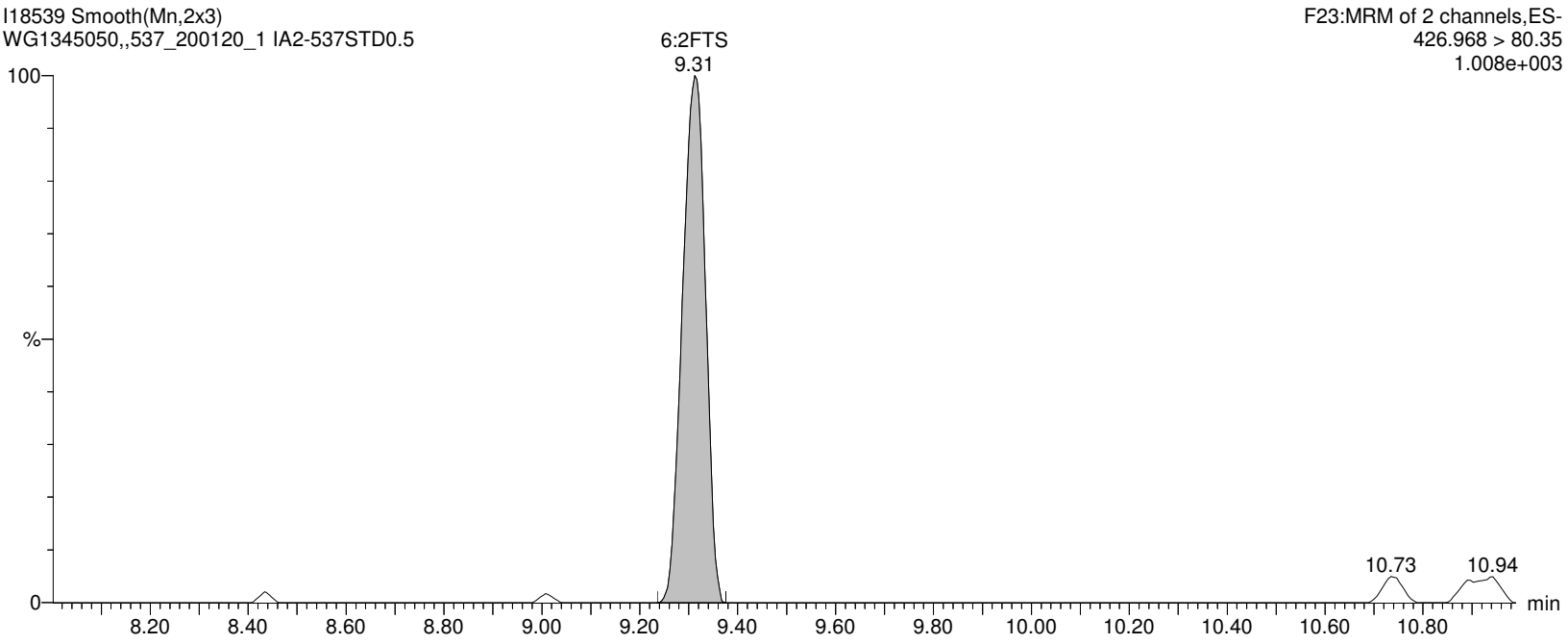

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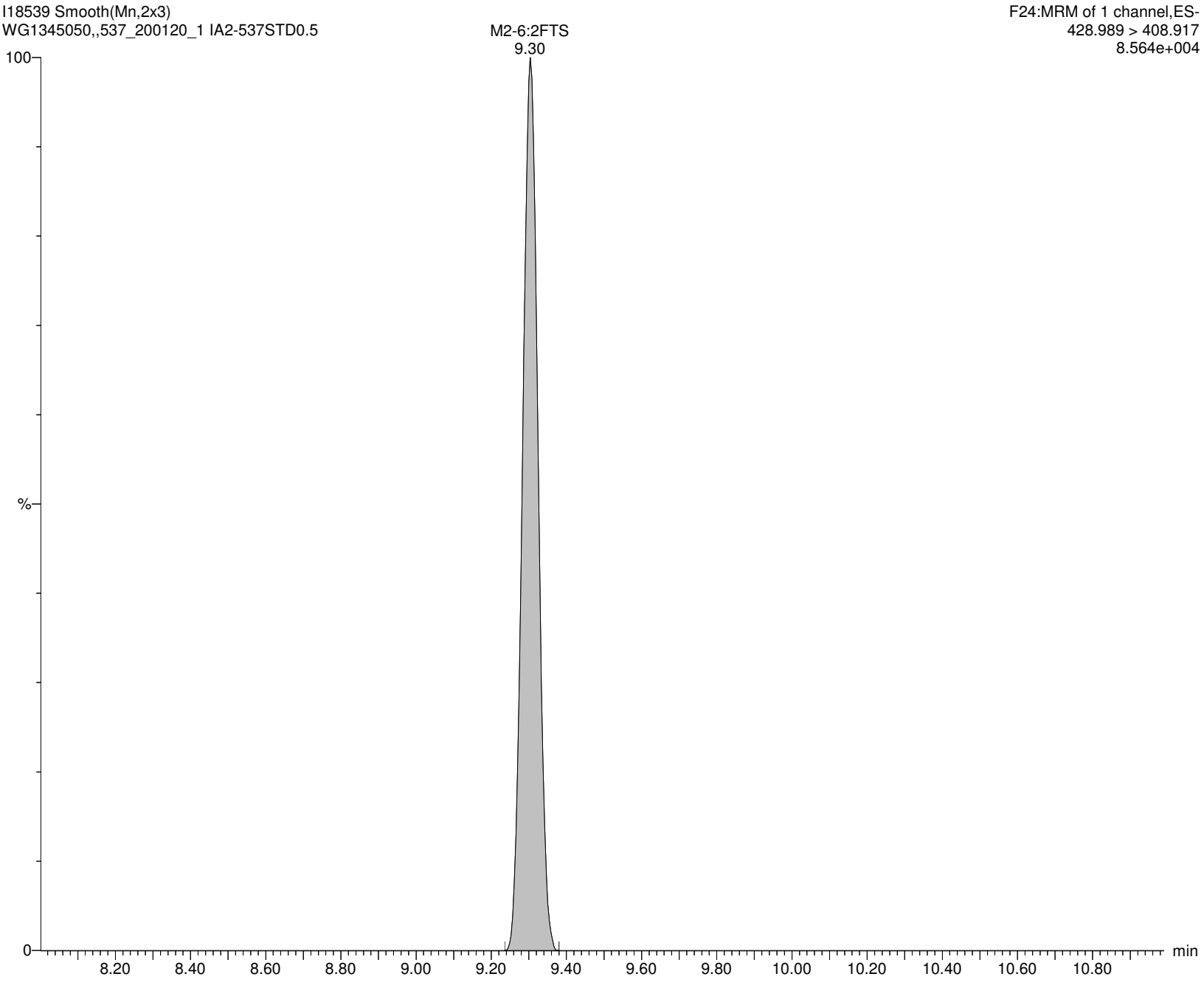
M2-6:2FTS



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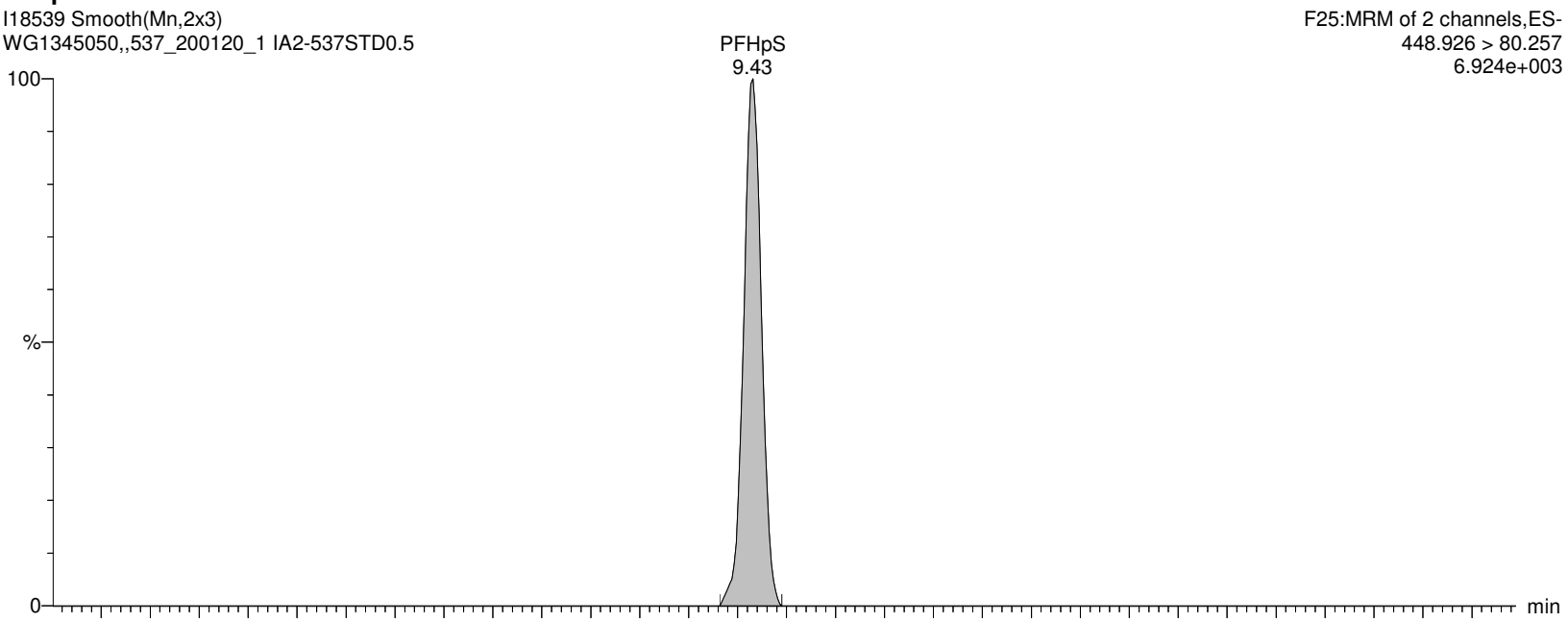

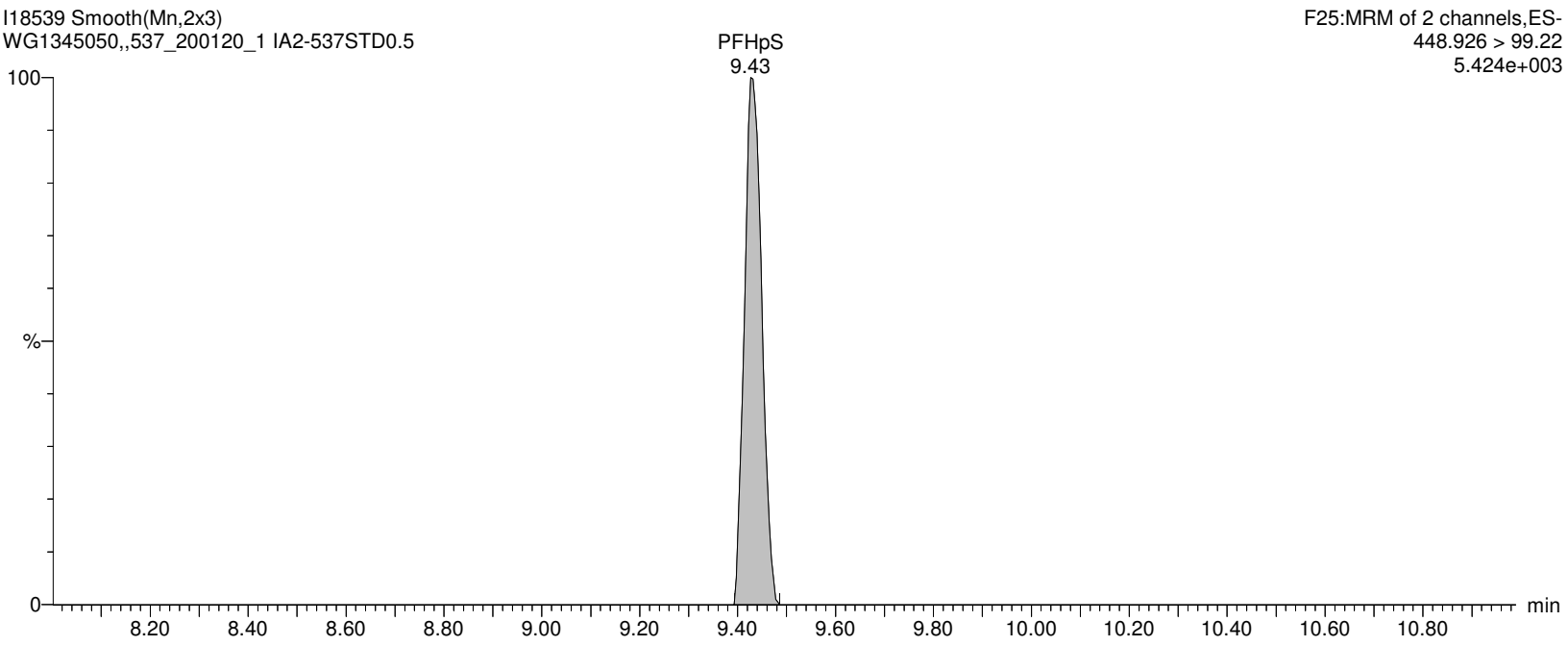

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:59 Eastern Standard Time

Name: I18539
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Date: 27-Feb-2020
Time: 16:47:48
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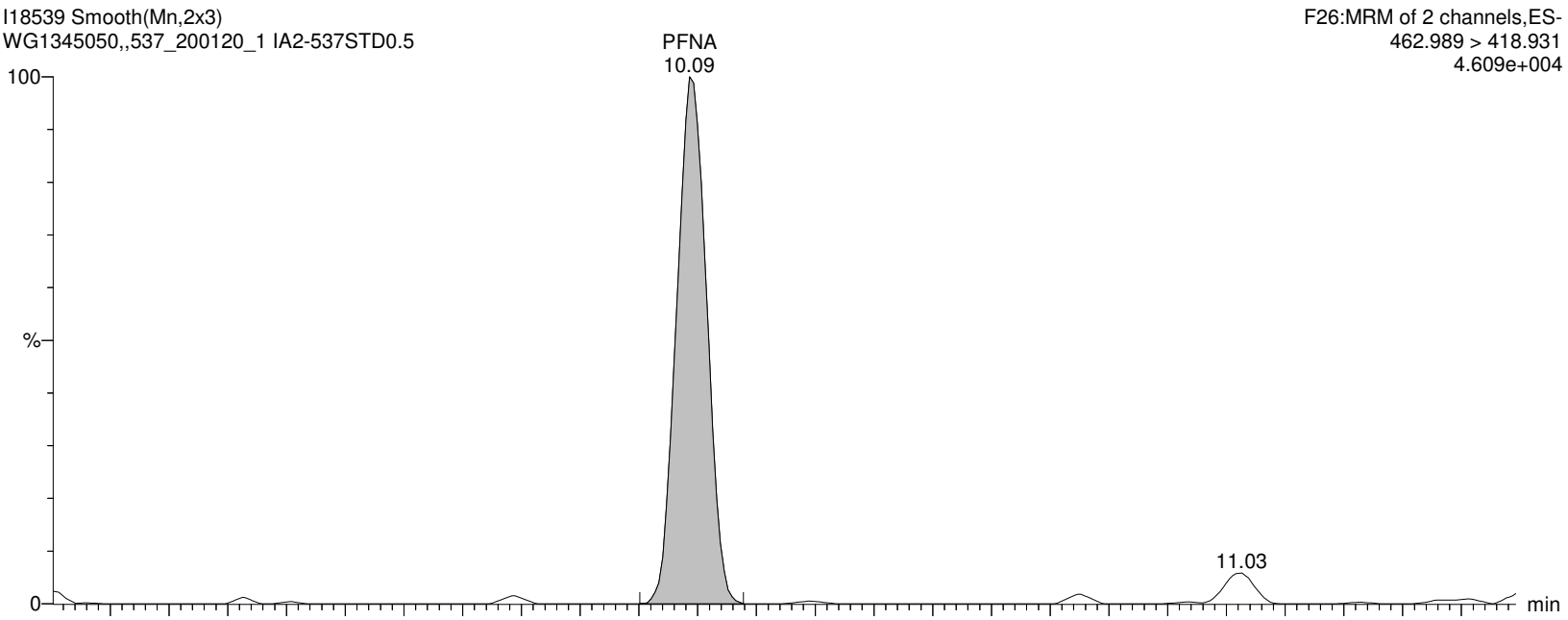

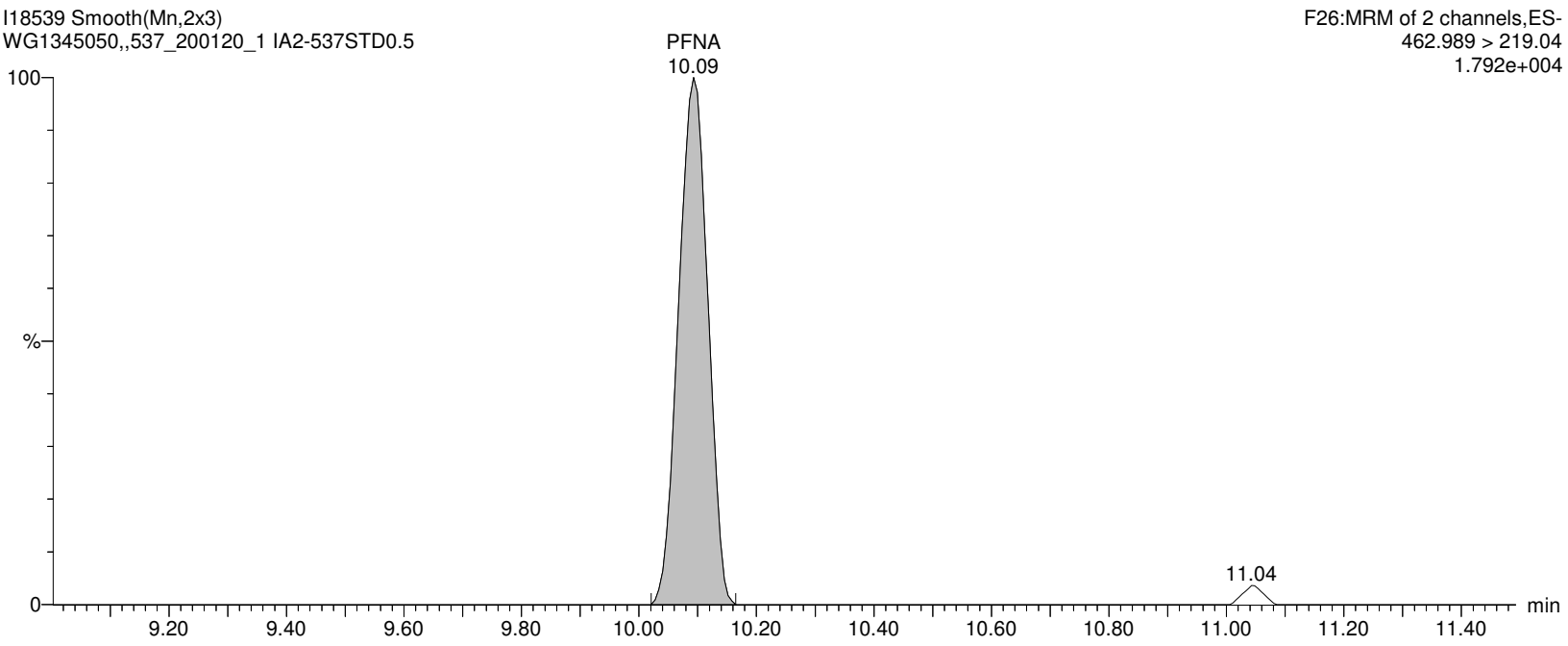

all concentration units in (ng/mL)

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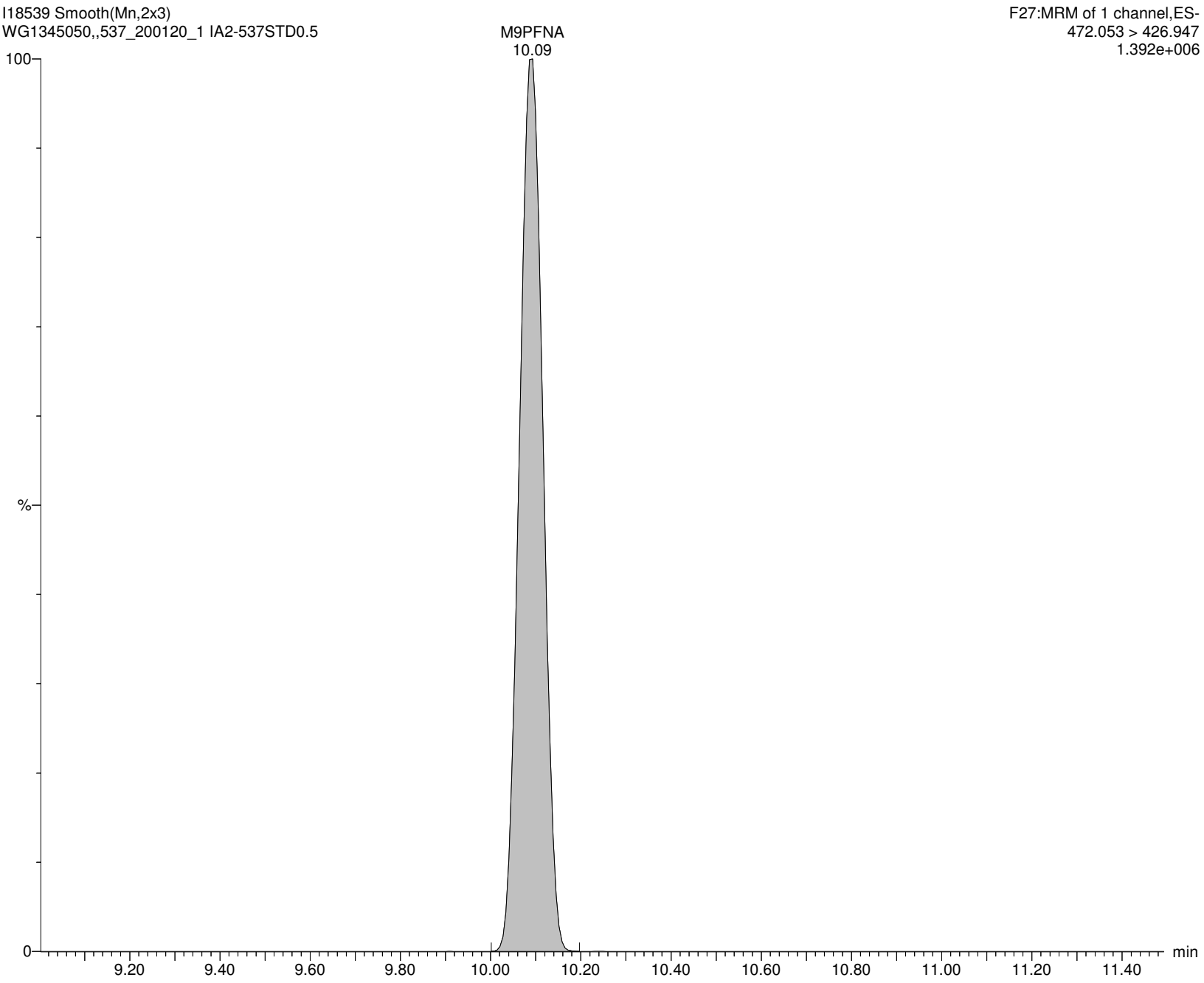

all concentration units in (ng/mL)

Alpha Analytical Inc.
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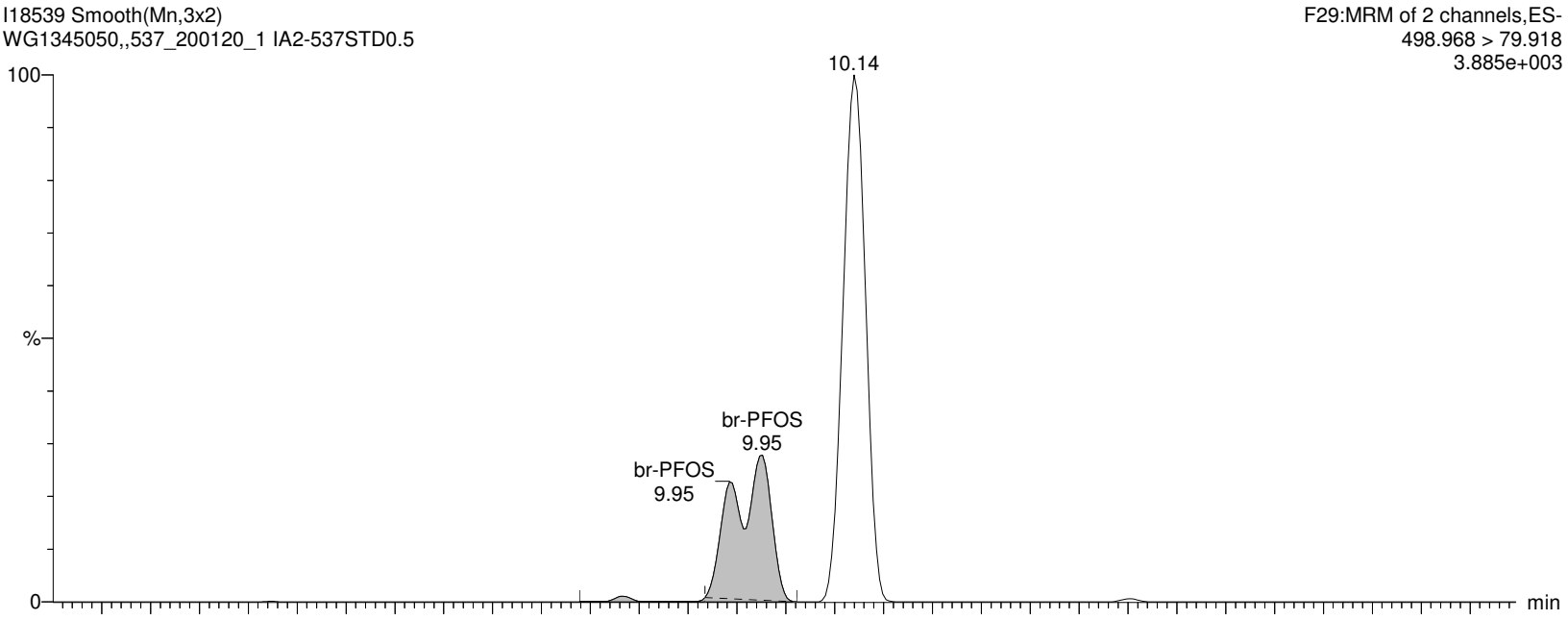

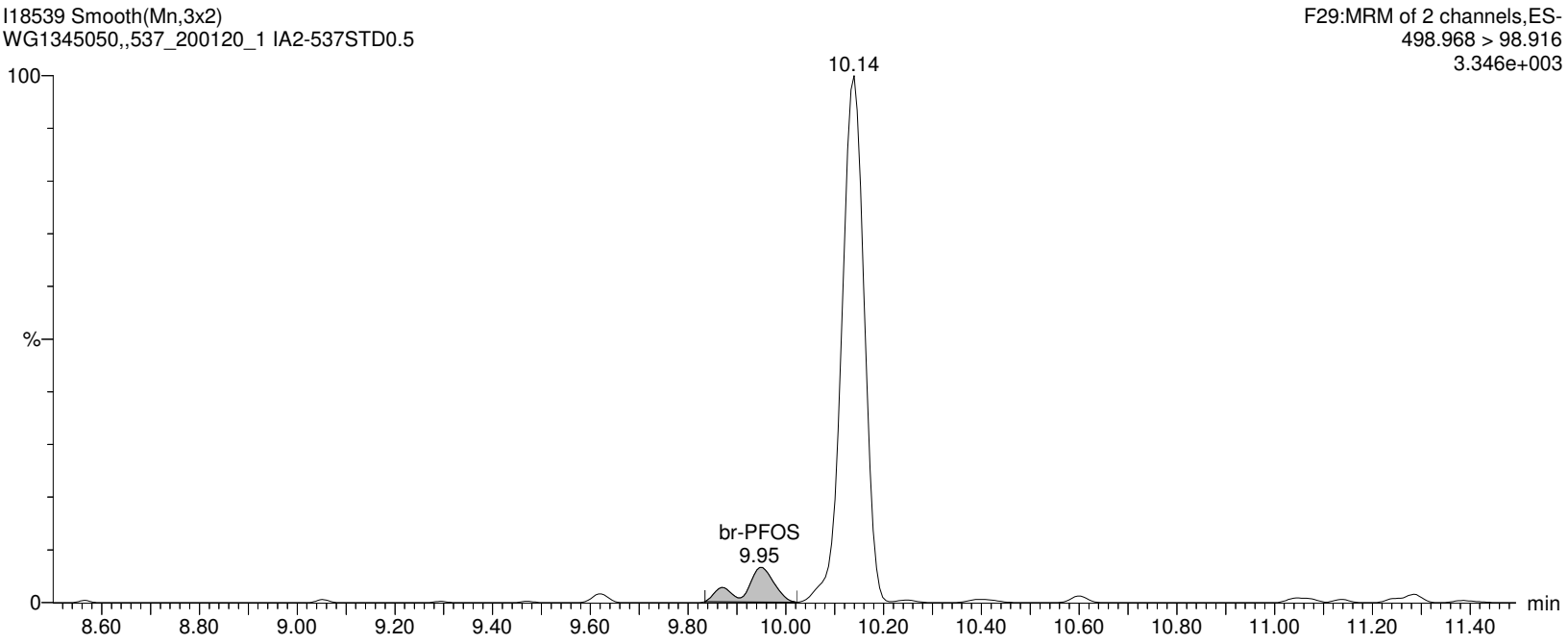

all concentration units in (ng/mL)

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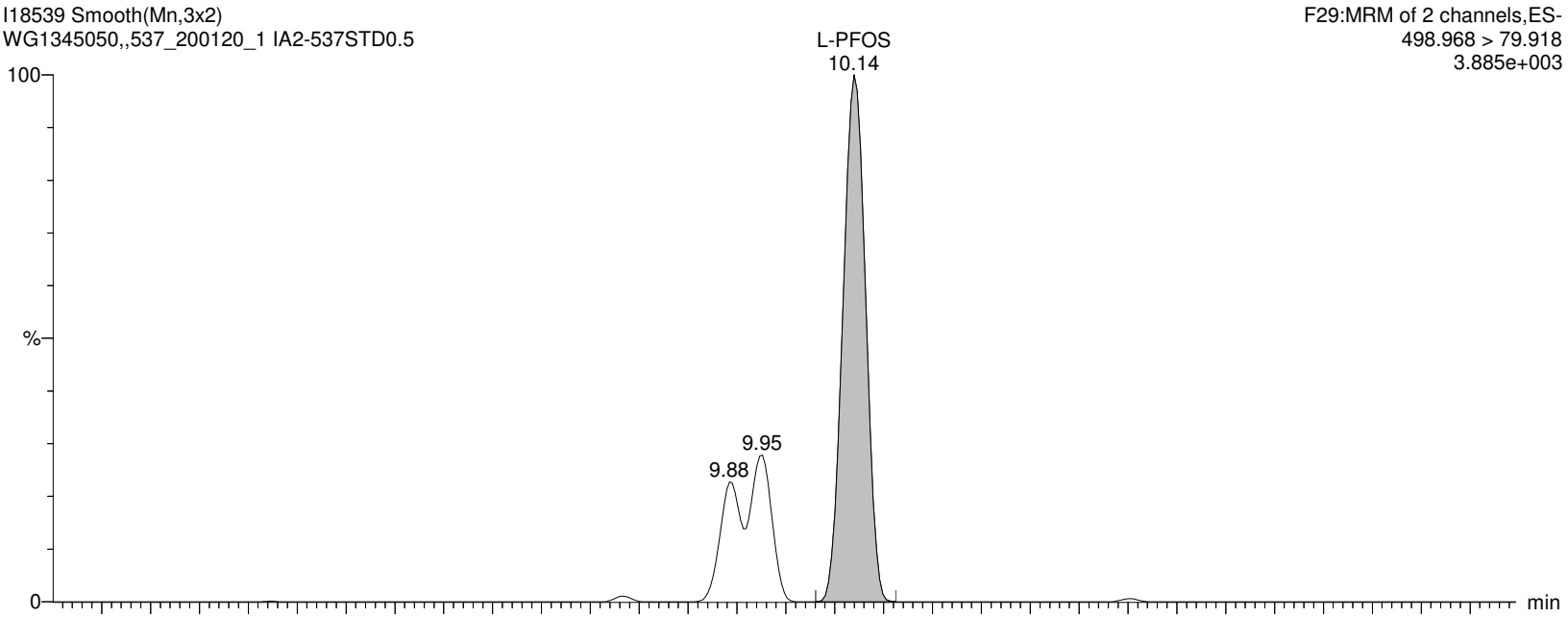

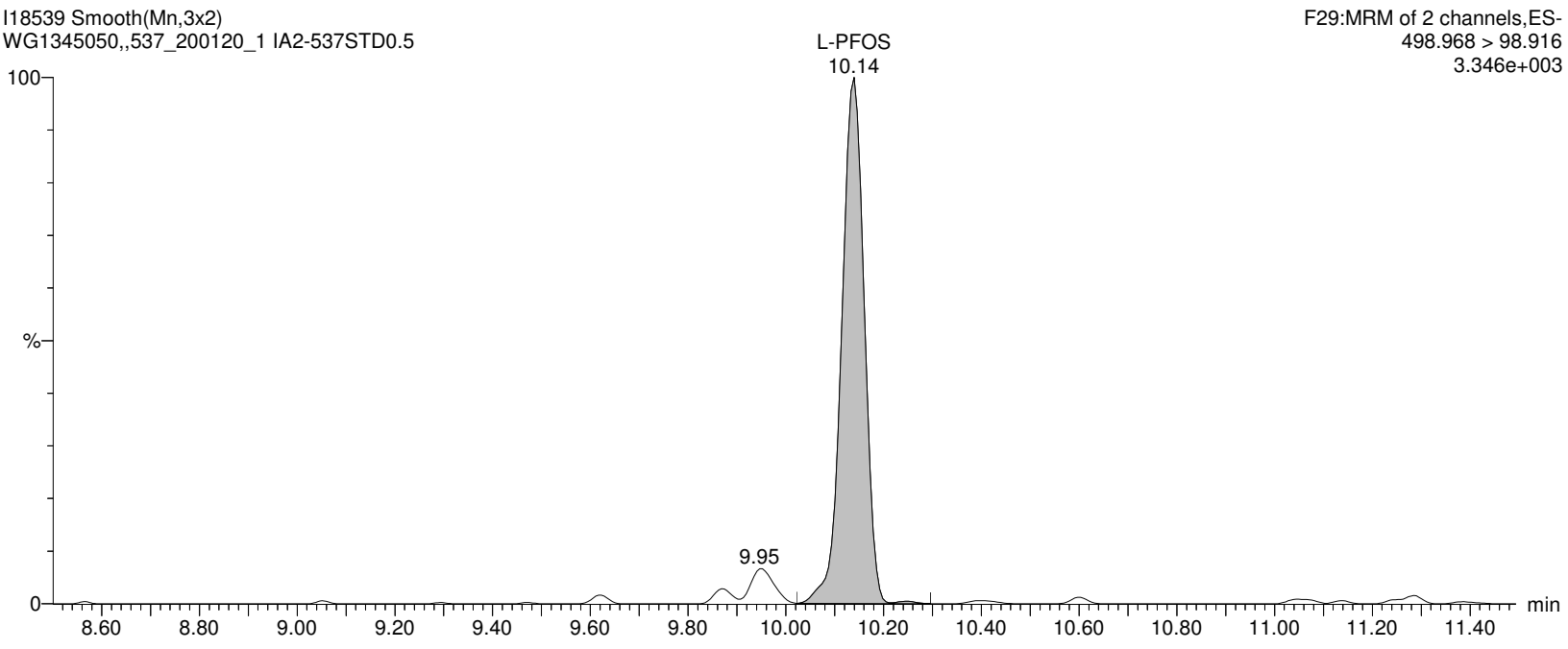

all concentration units in (ng/mL)

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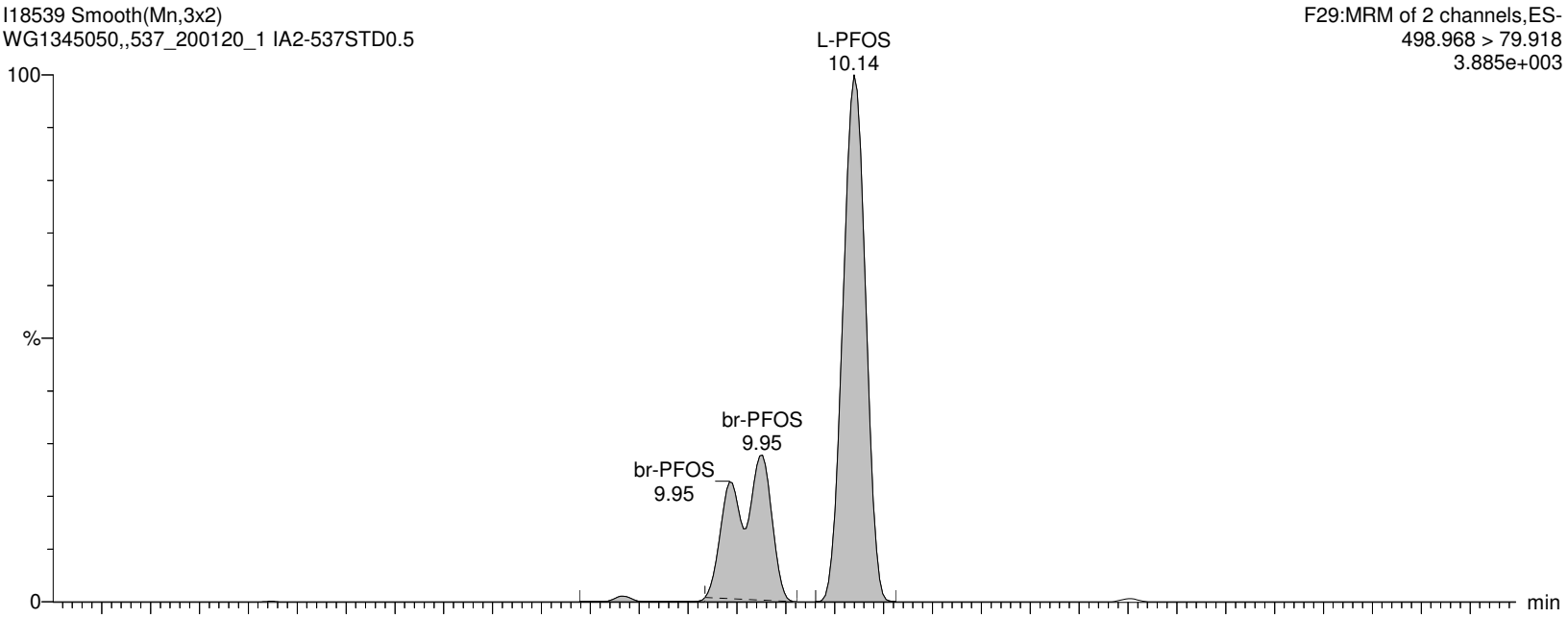
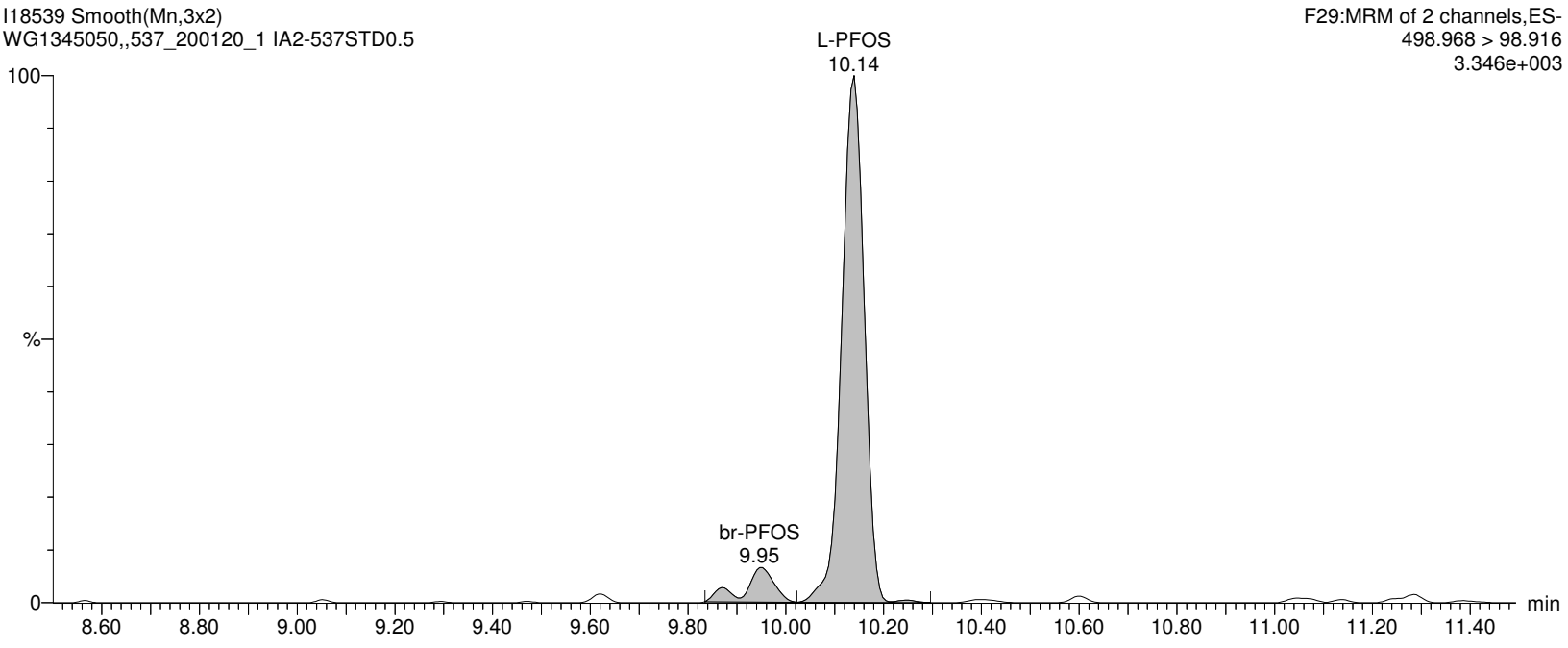
PFOS





all concentration units in (ng/mL)

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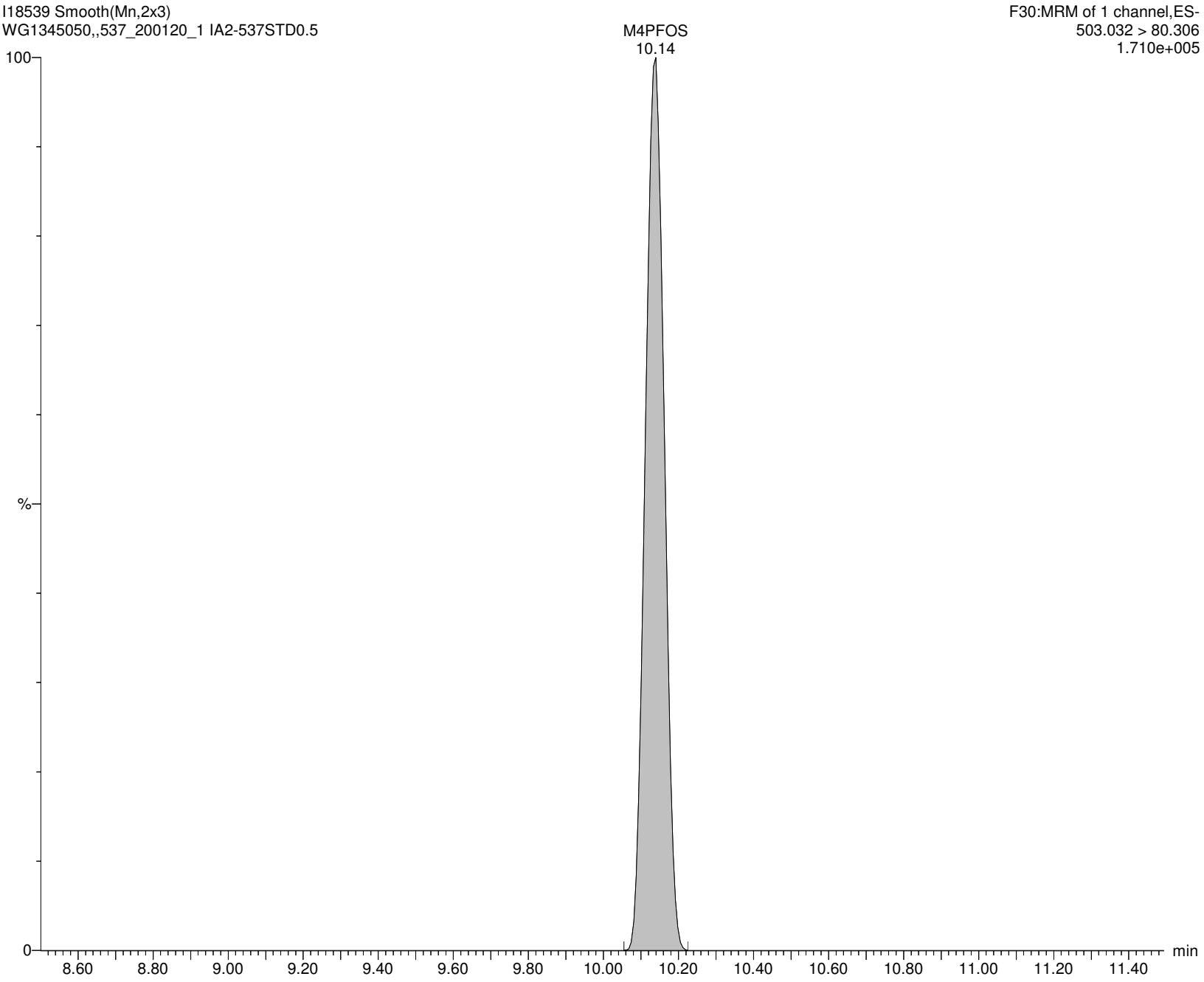

all concentration units in (ng/mL)

Alpha Analytical Inc.
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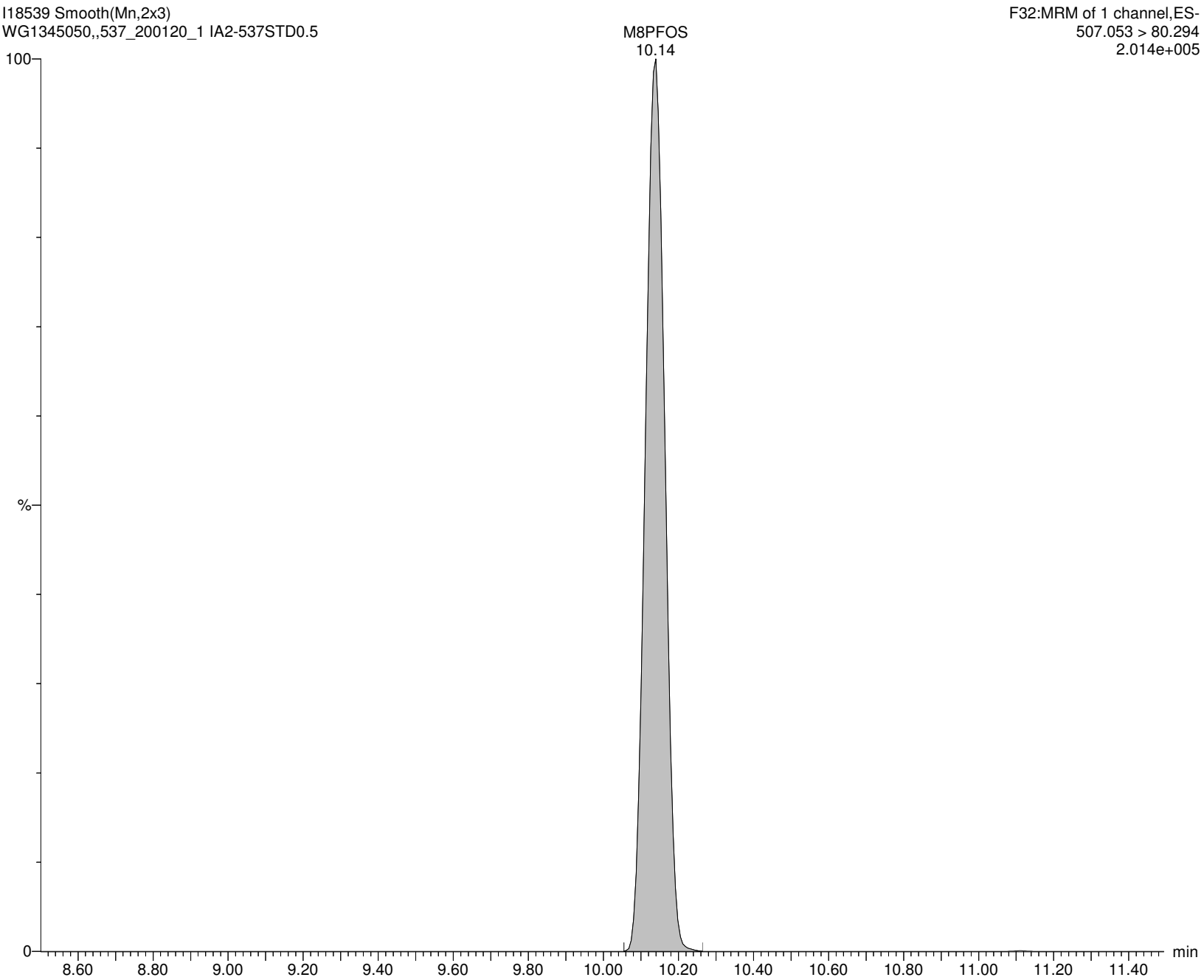

all concentration units in (ng/mL)

Alpha Analytical Inc.
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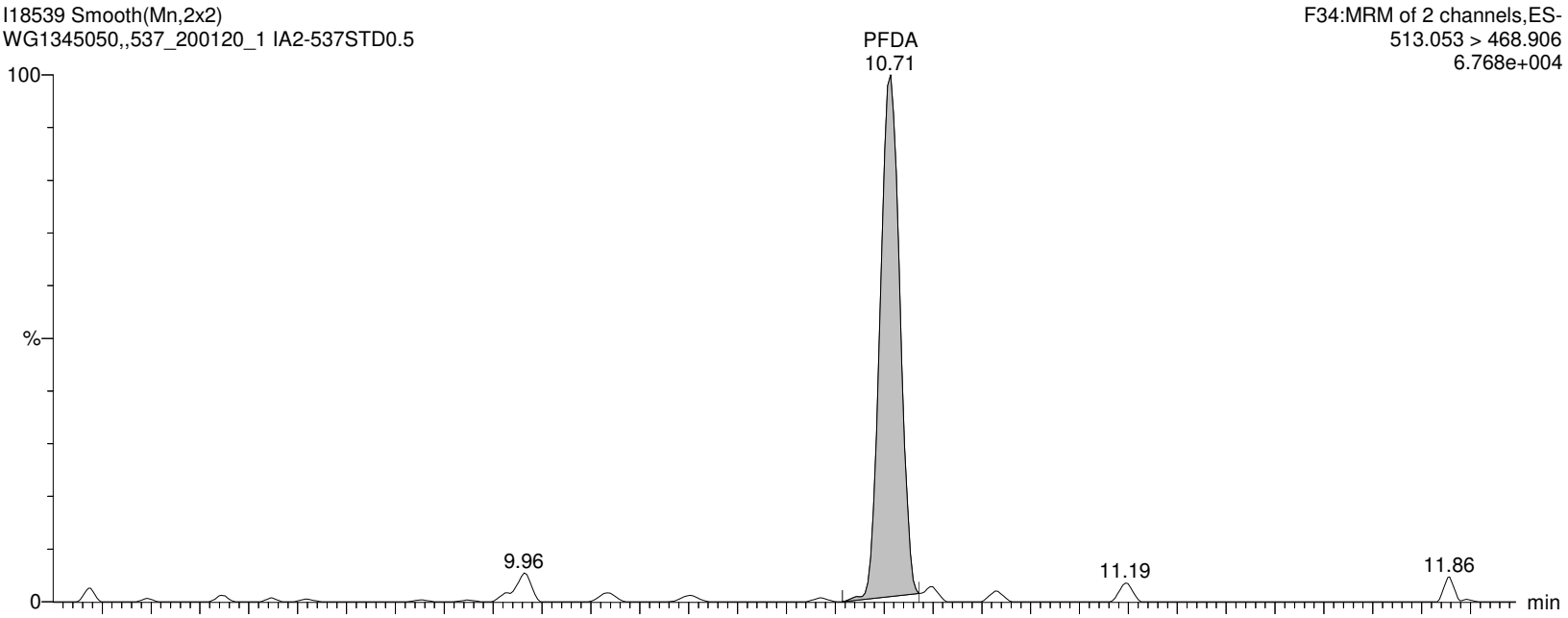

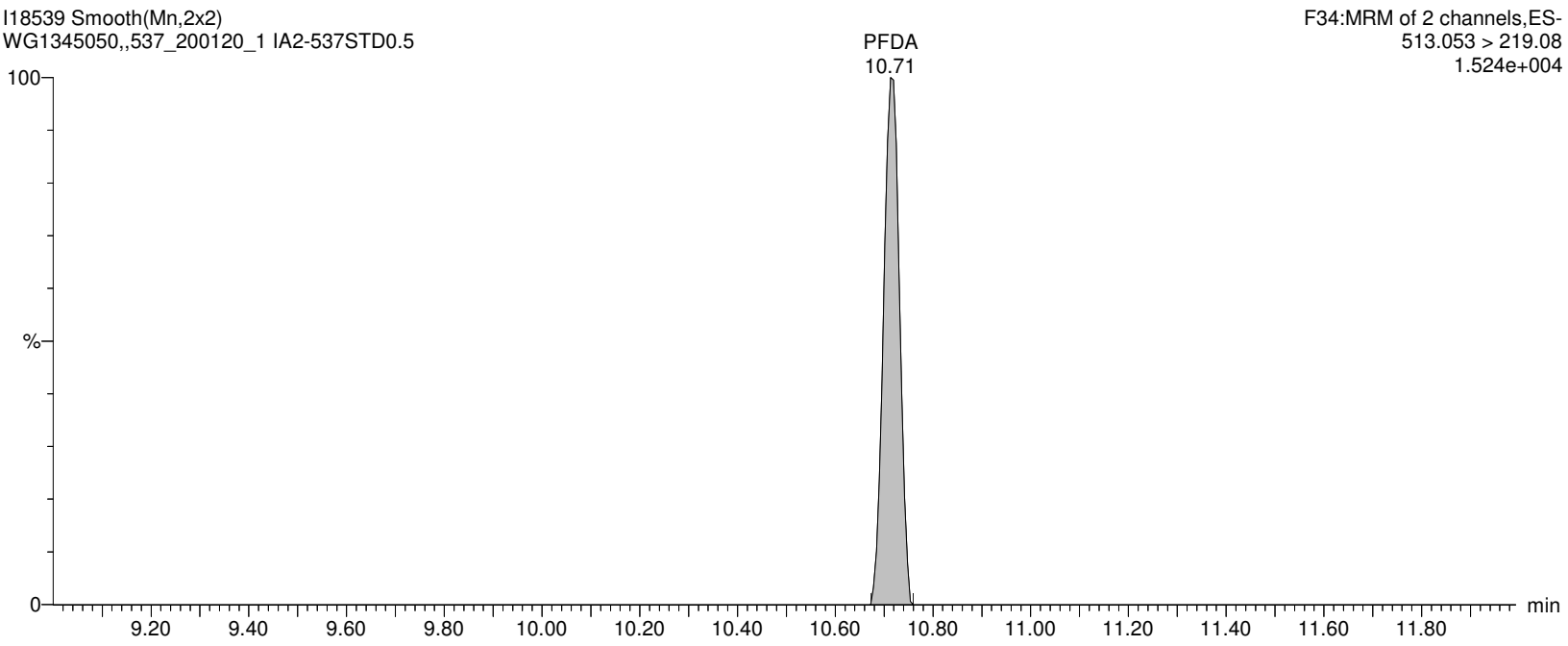

all concentration units in (ng/mL)

Alpha Analytical Inc.
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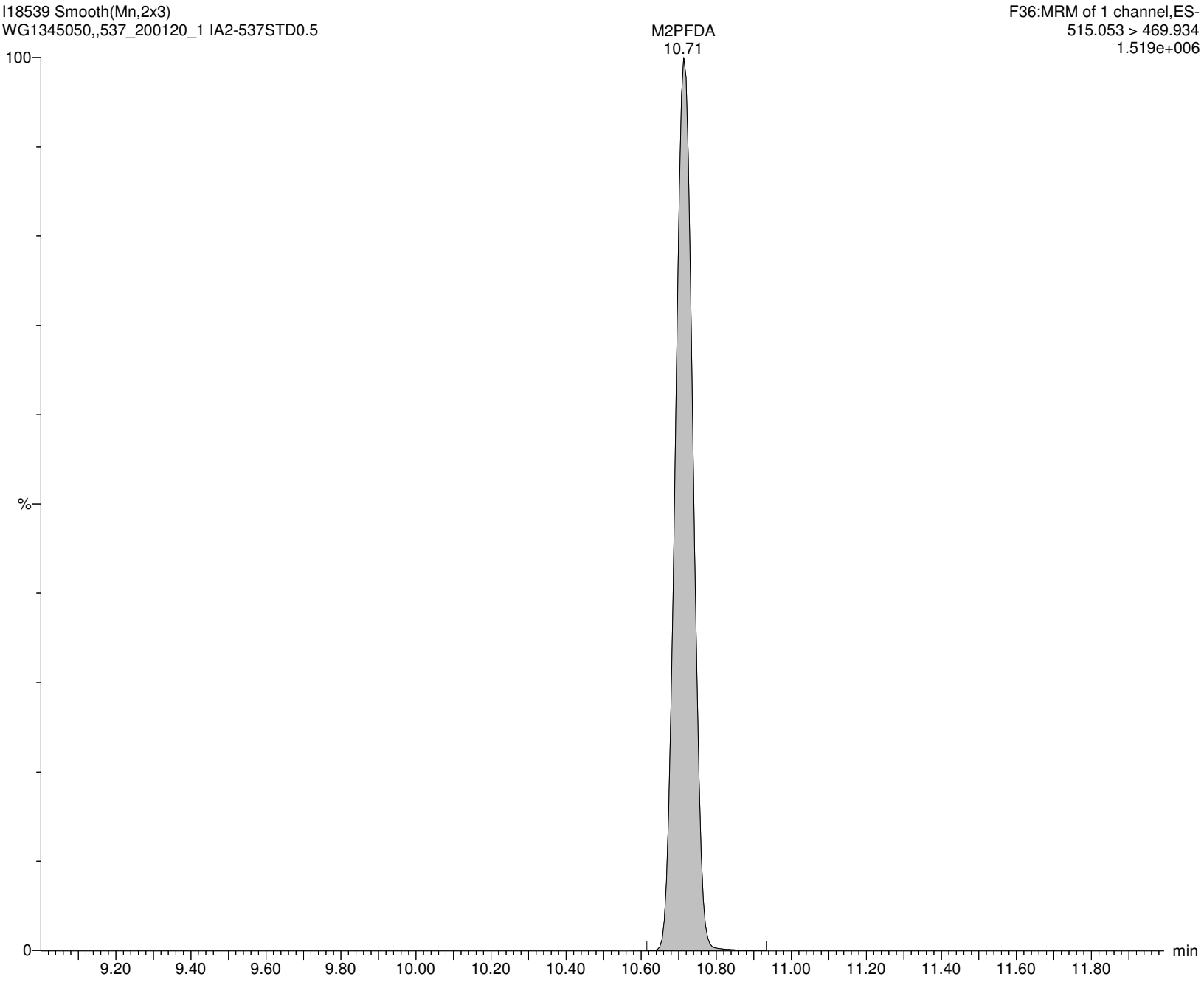

all concentration units in (ng/mL)

Alpha Analytical Inc.
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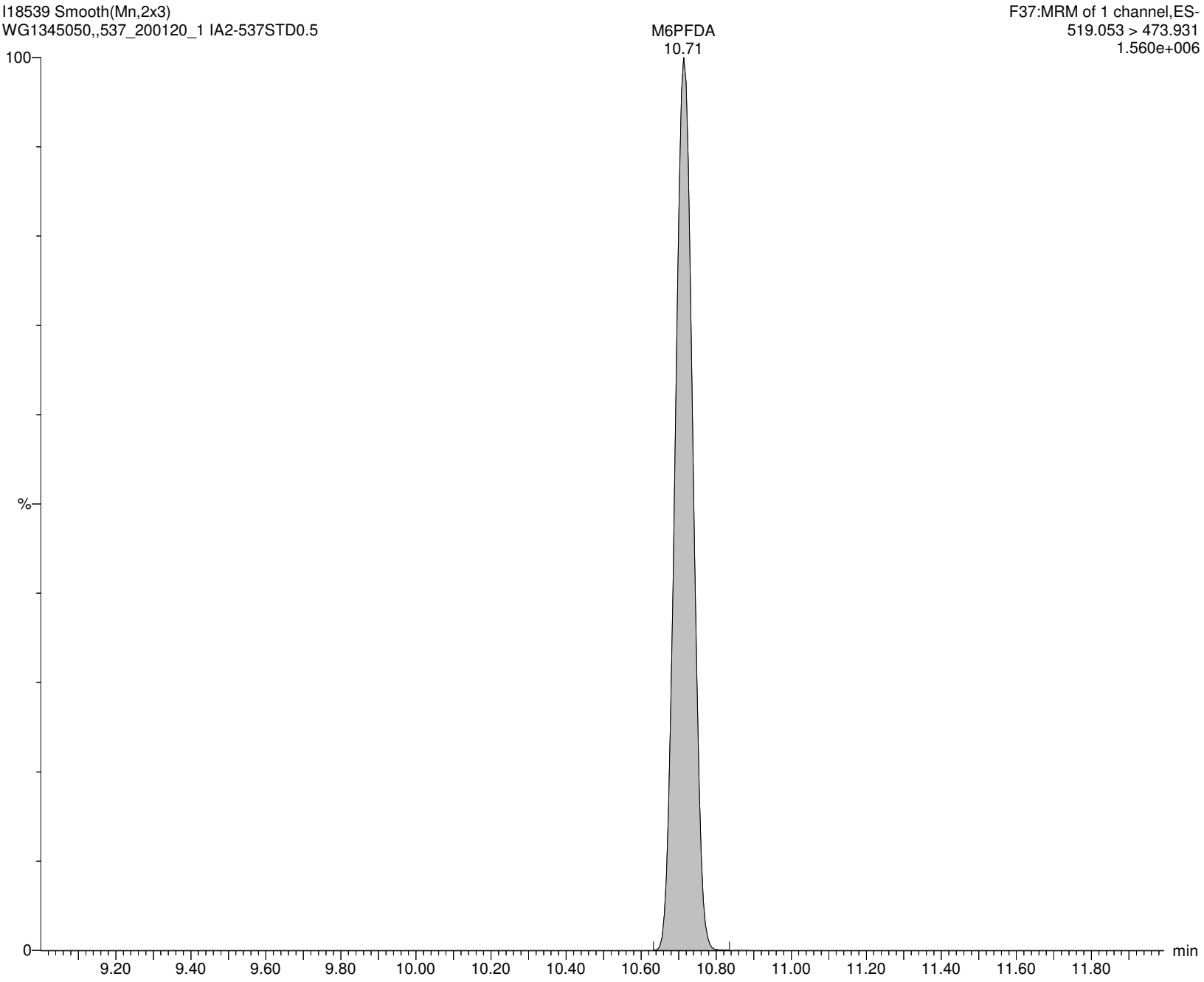

all concentration units in (ng/mL)

Alpha Analytical Inc.
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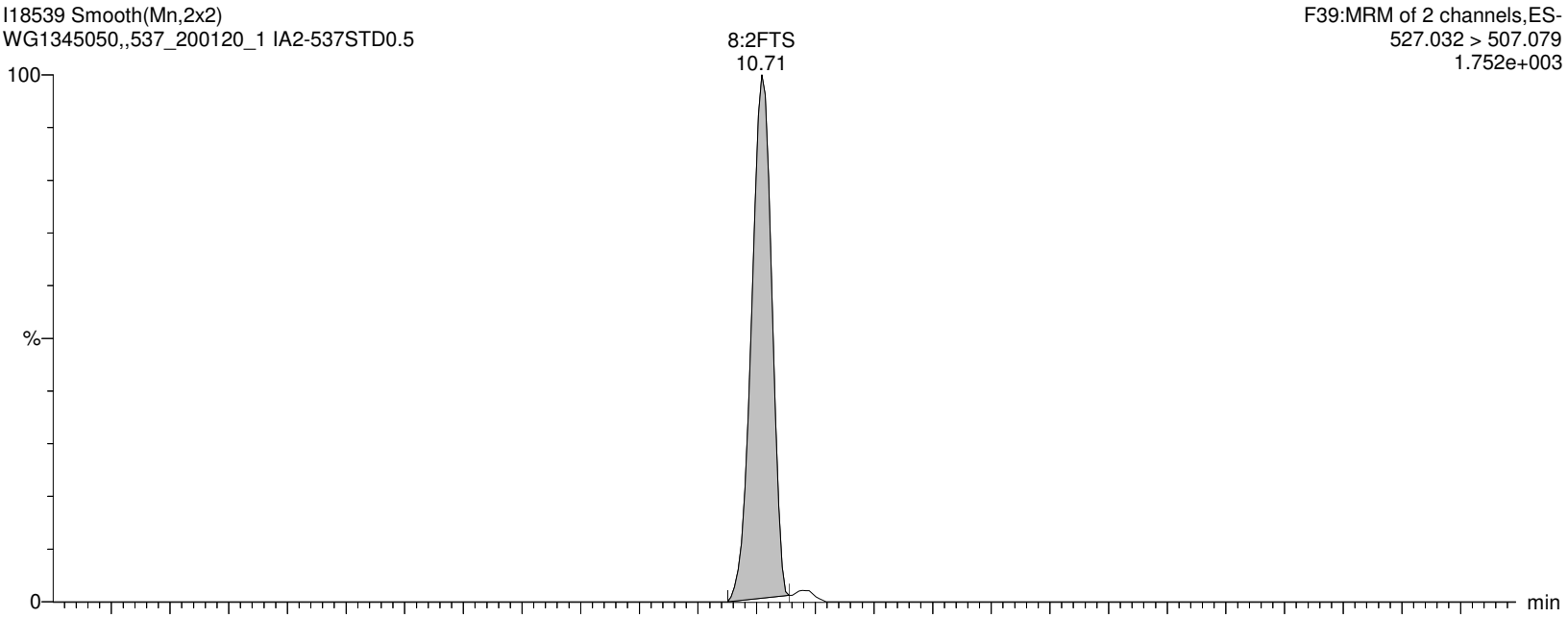

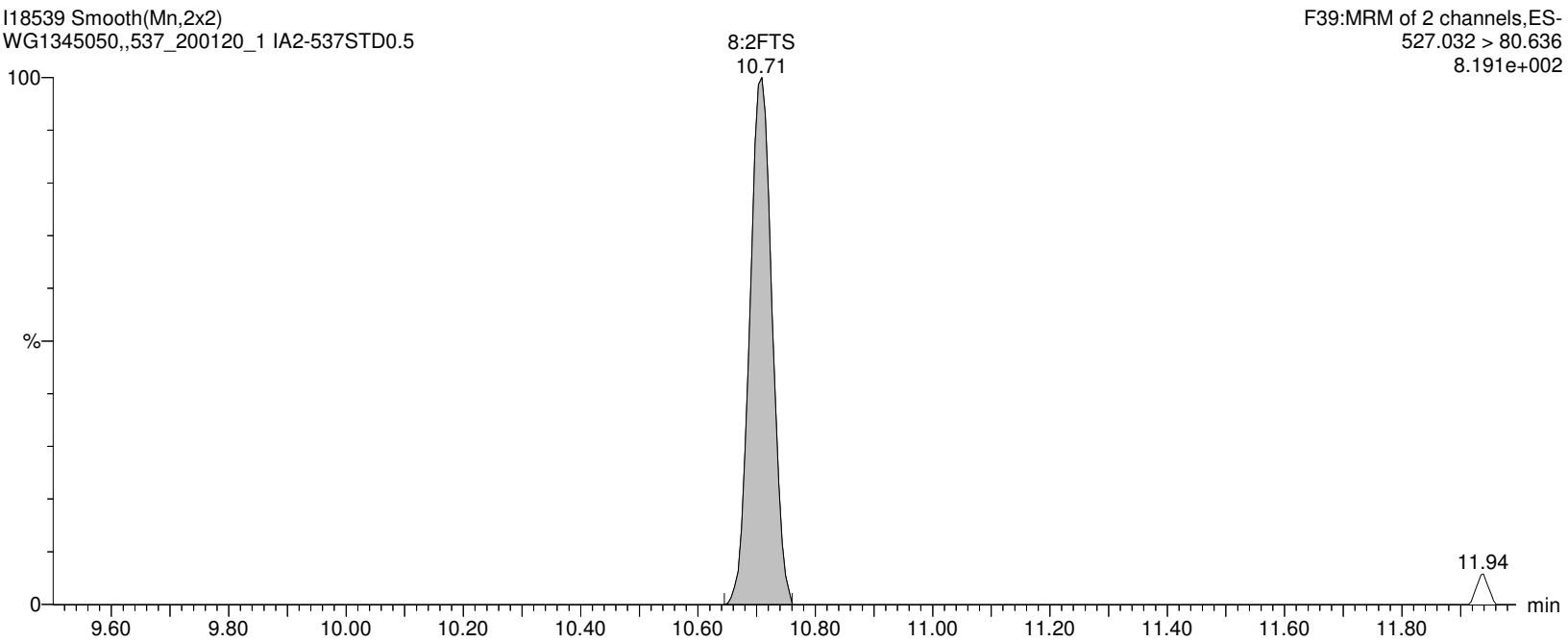

all concentration units in (ng/mL)

Alpha Analytical Inc.
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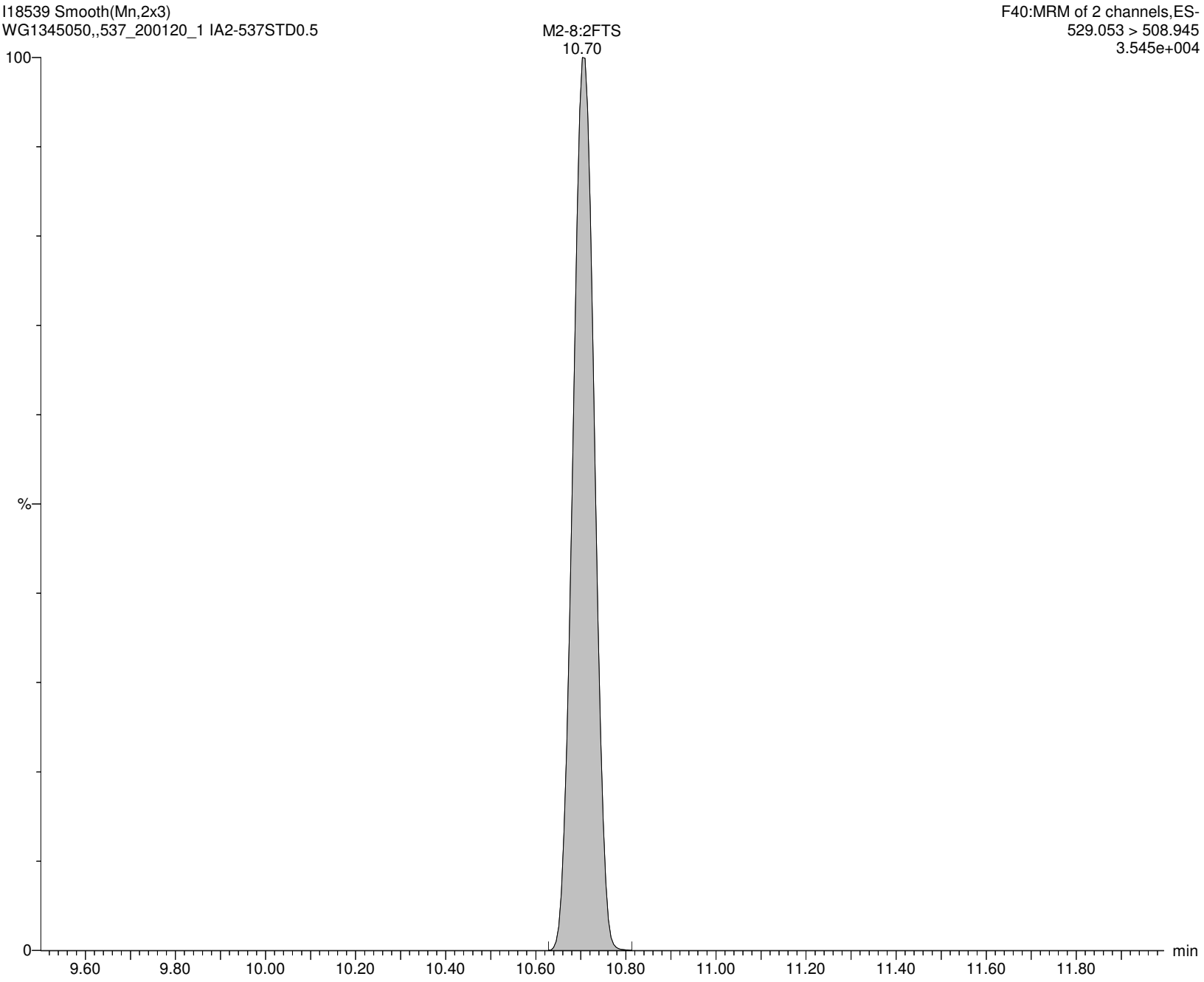

all concentration units in (ng/mL)

Alpha Analytical Inc.
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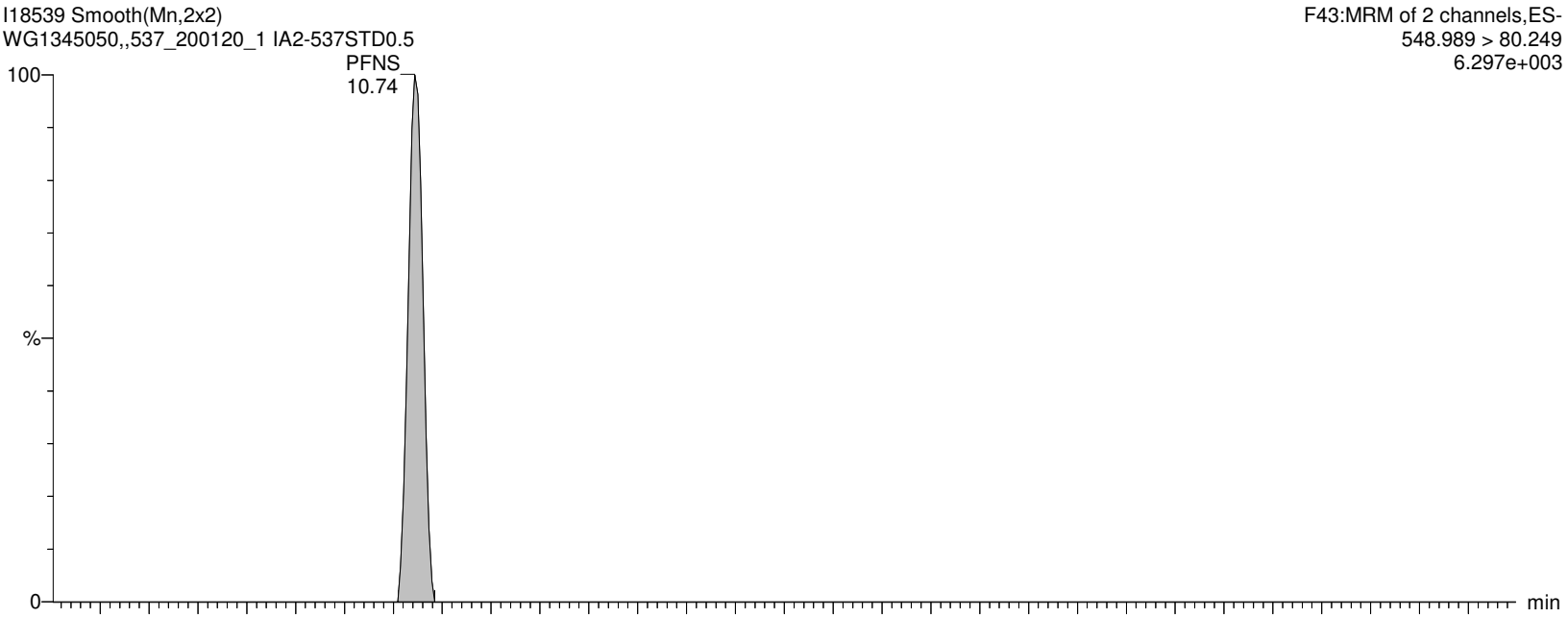

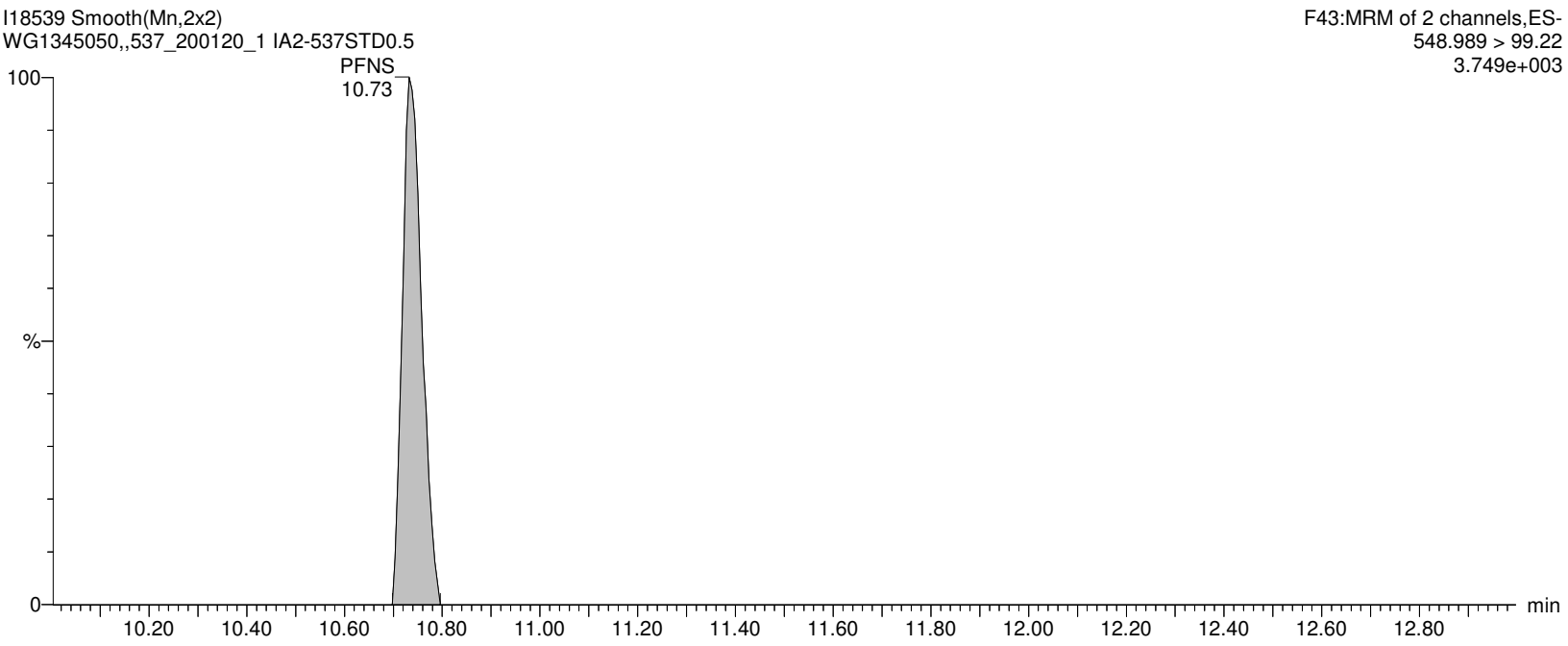

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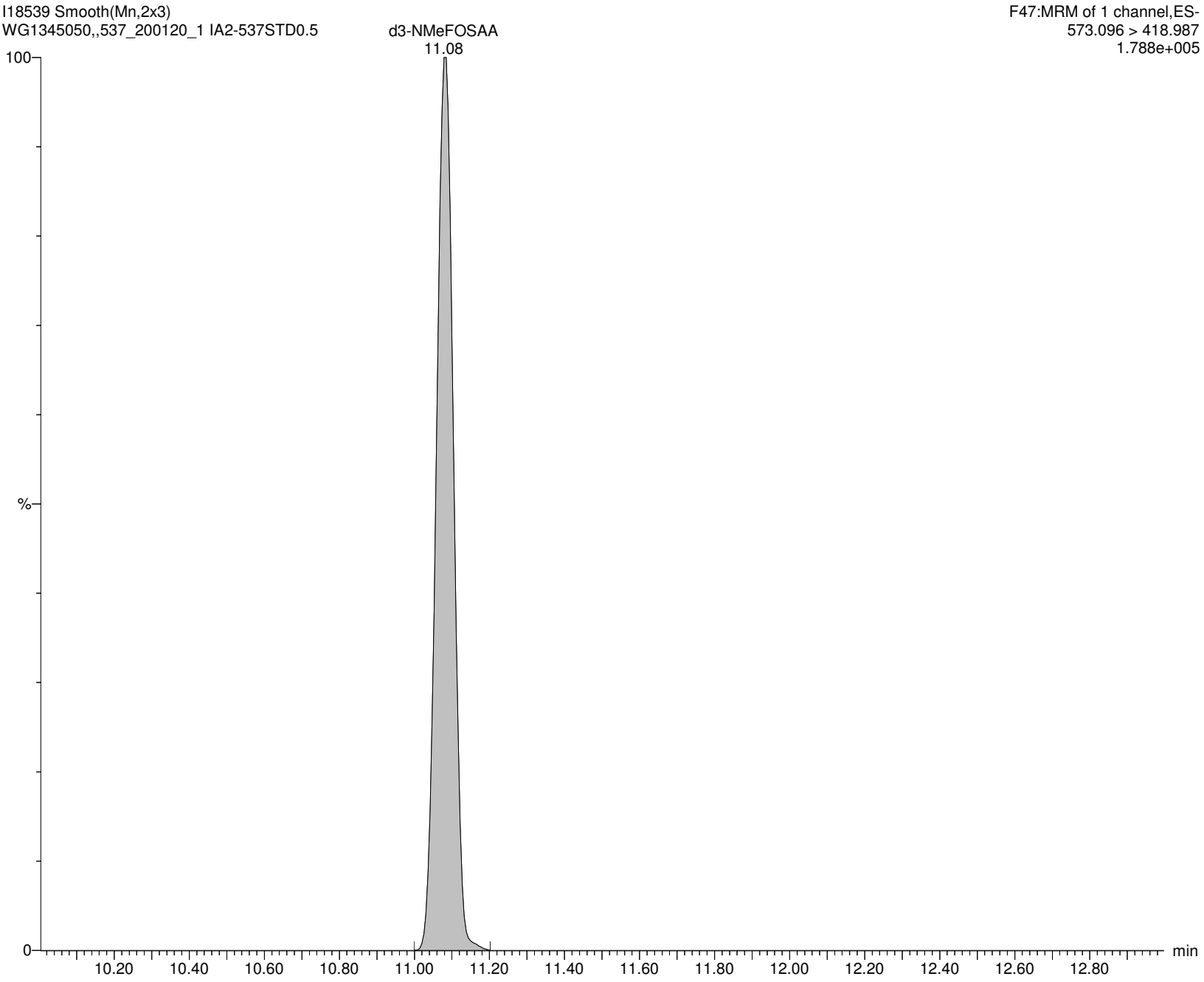

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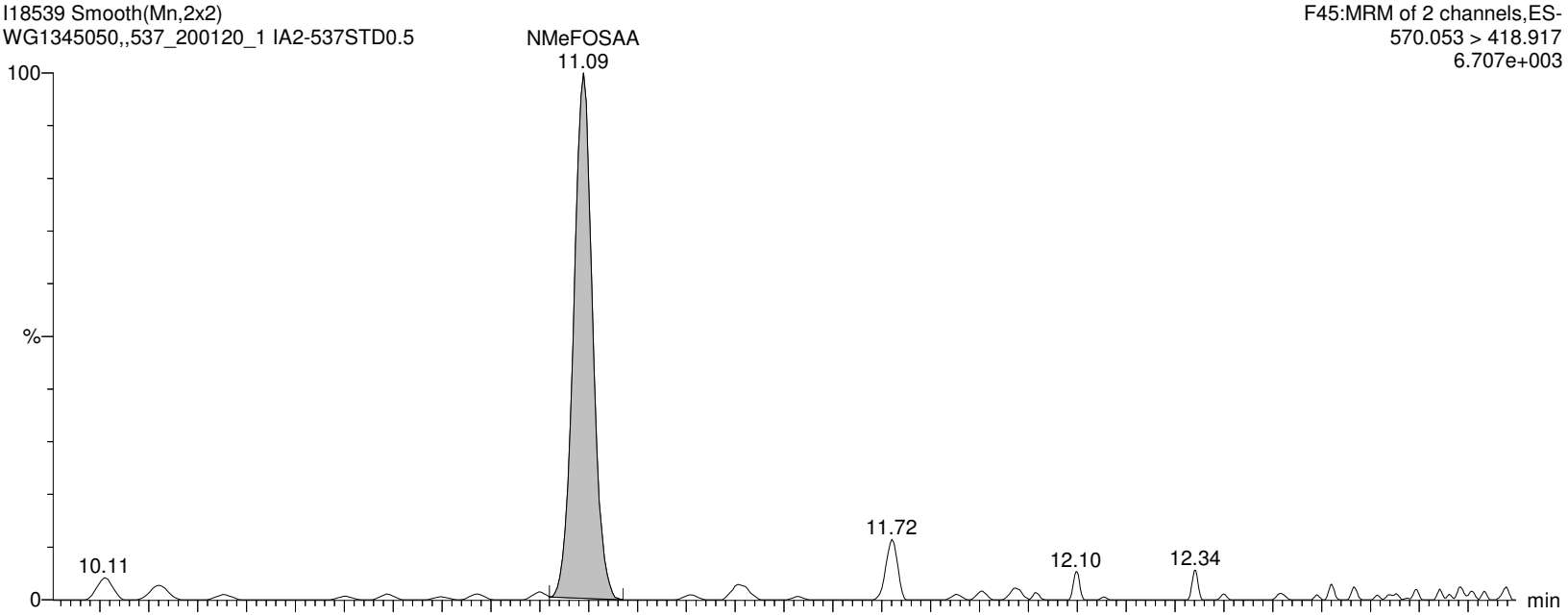

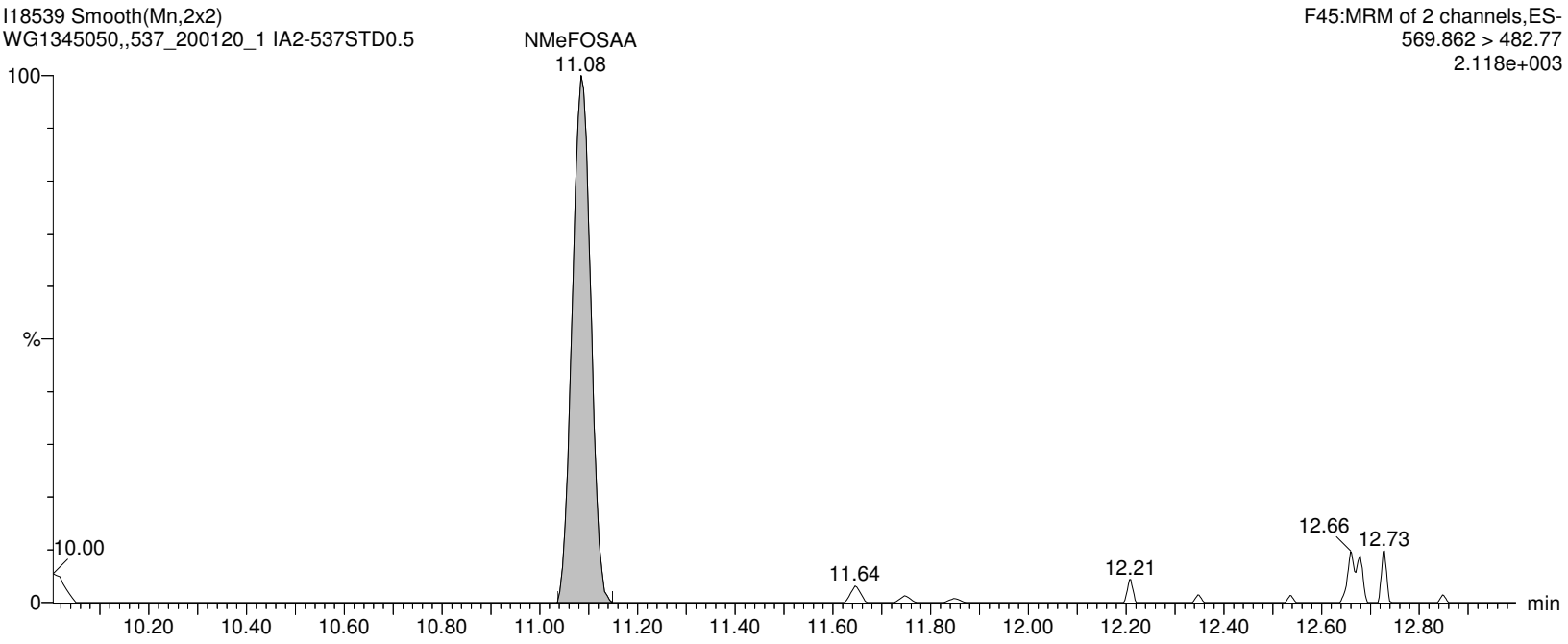

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:27:59 Eastern Standard Time

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Date: 27-Feb-2020
Time: 16:47:48
Description: WG1345050,,537_200120_1
User: LCMS01:JW
Vial: 1:B,5
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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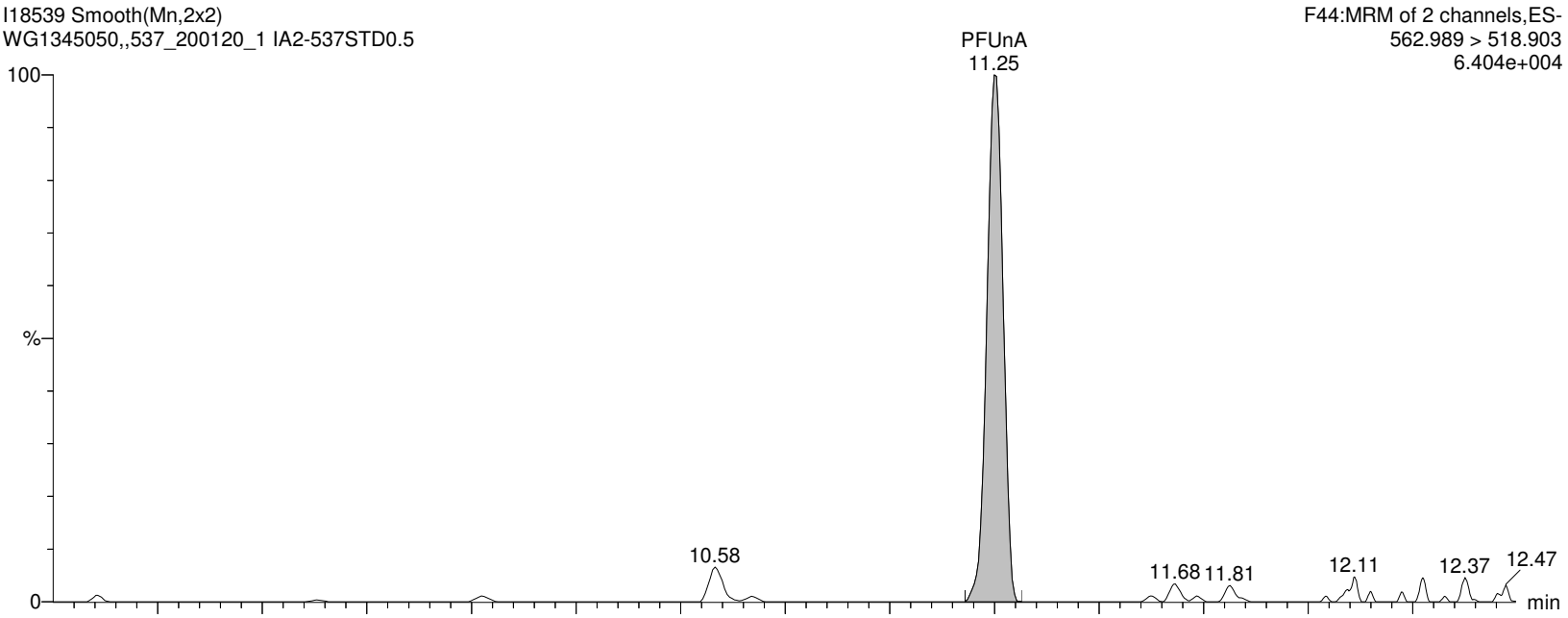

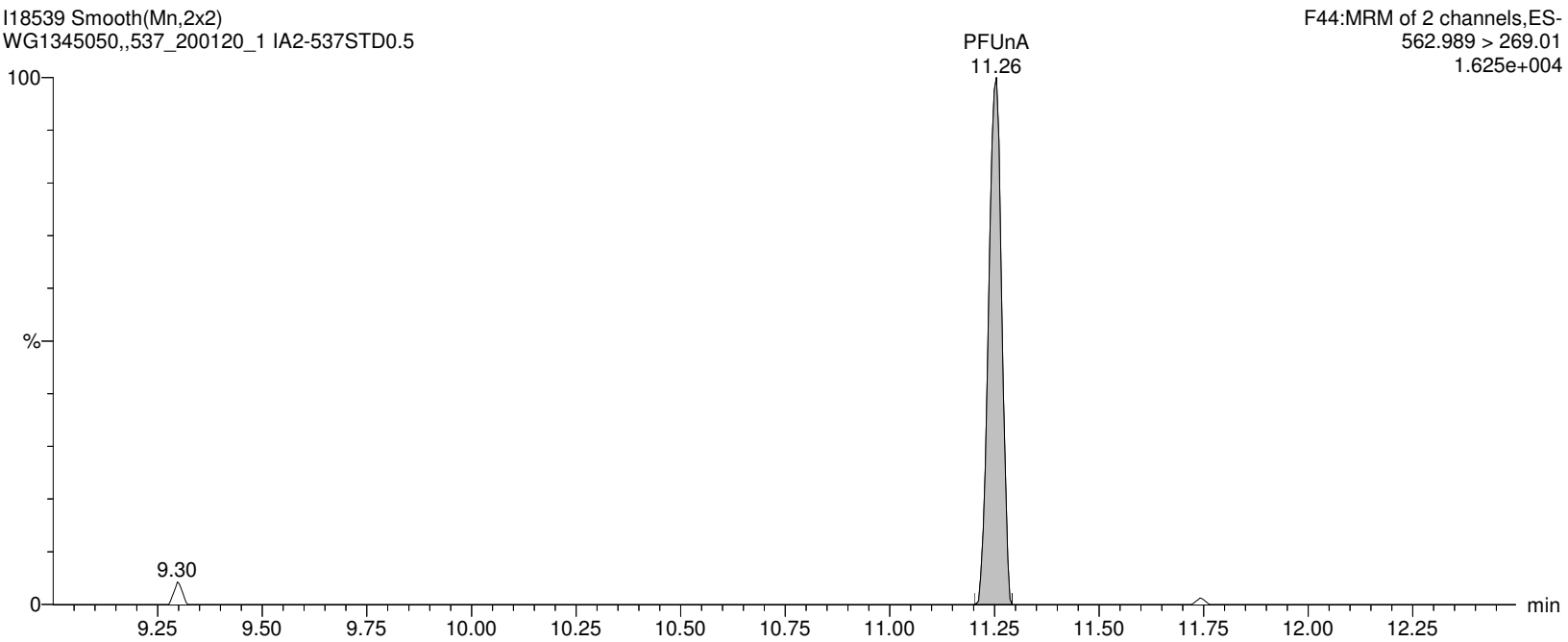

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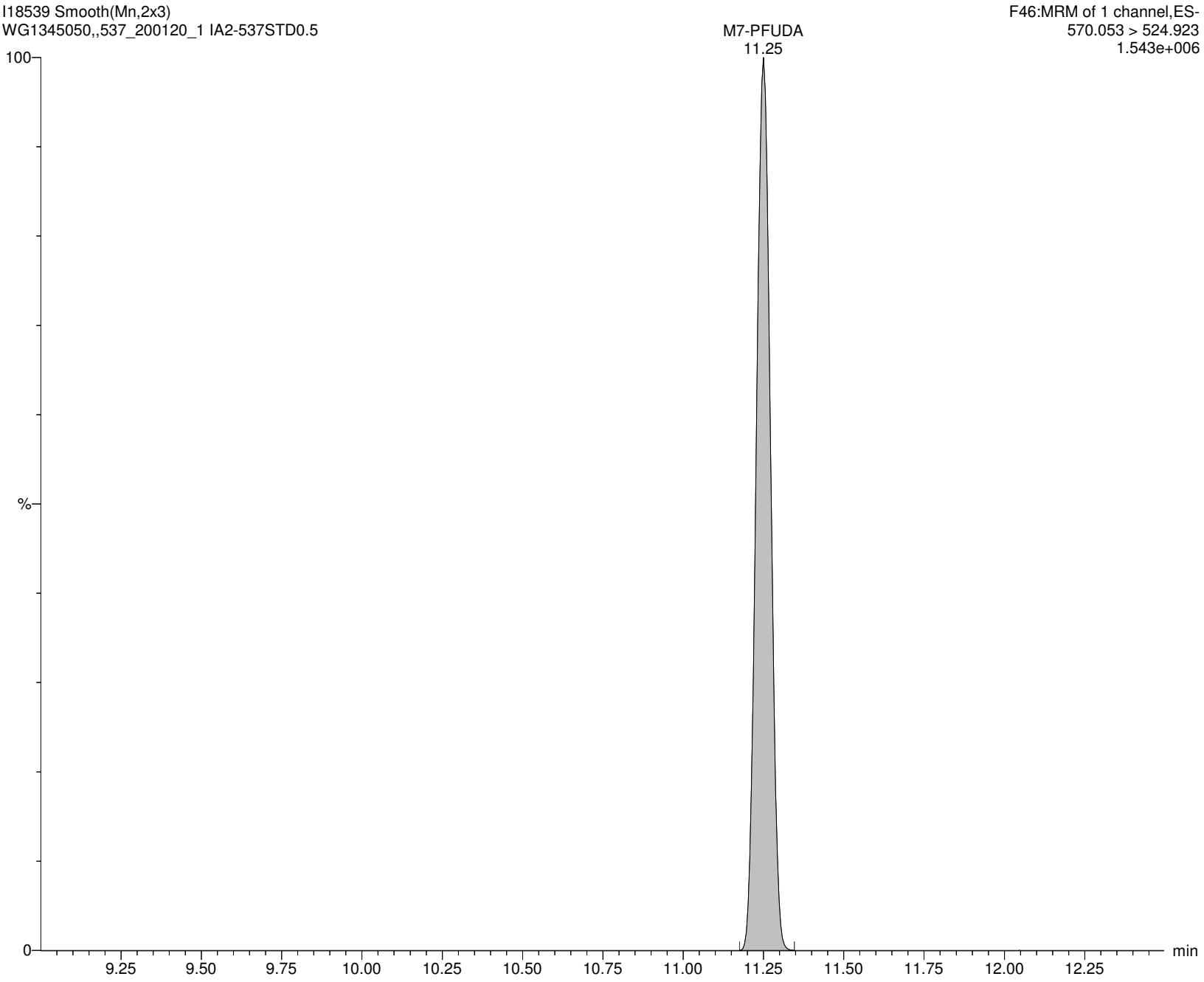

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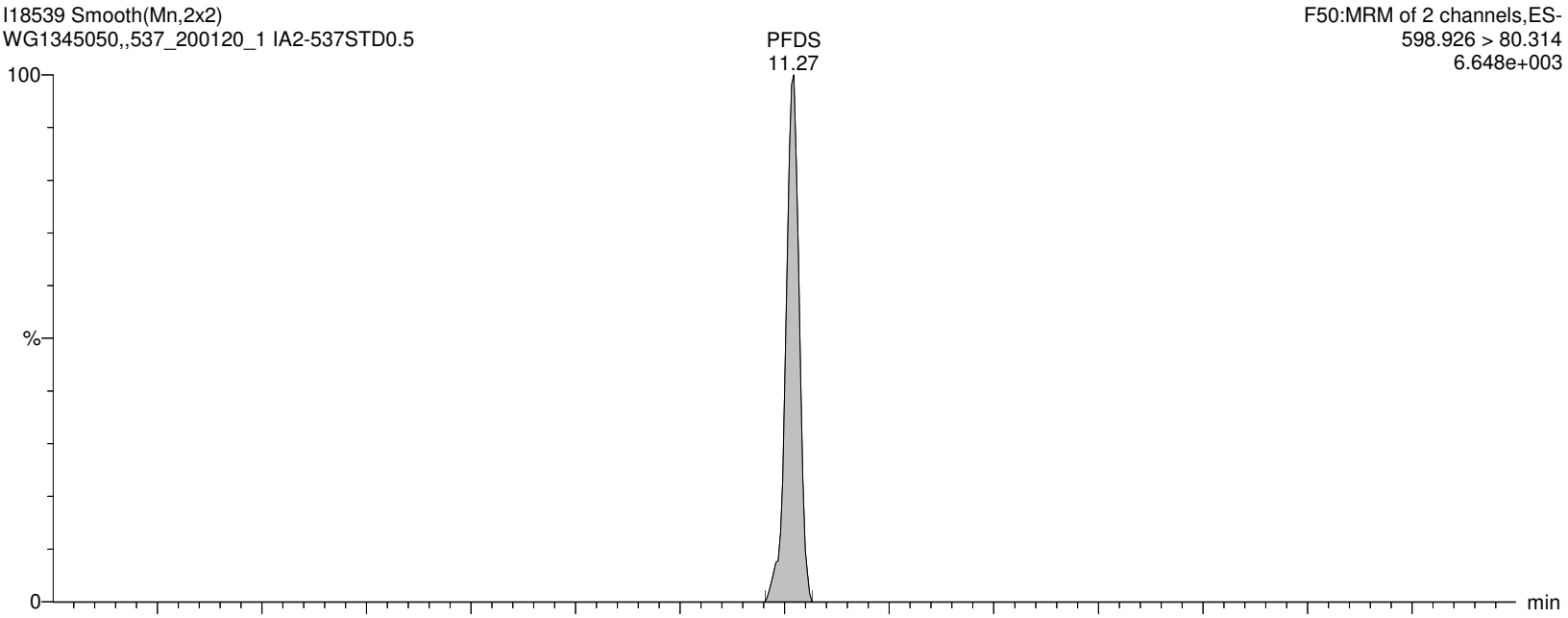

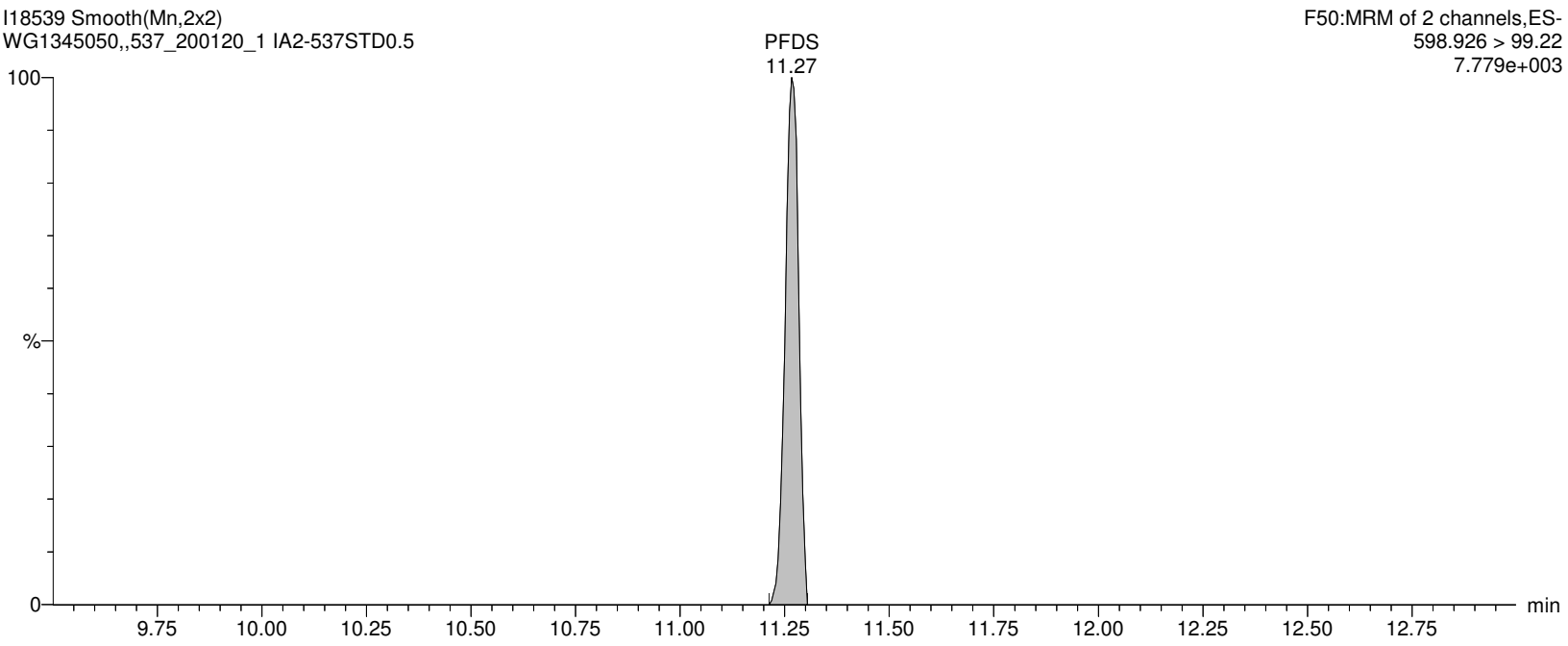

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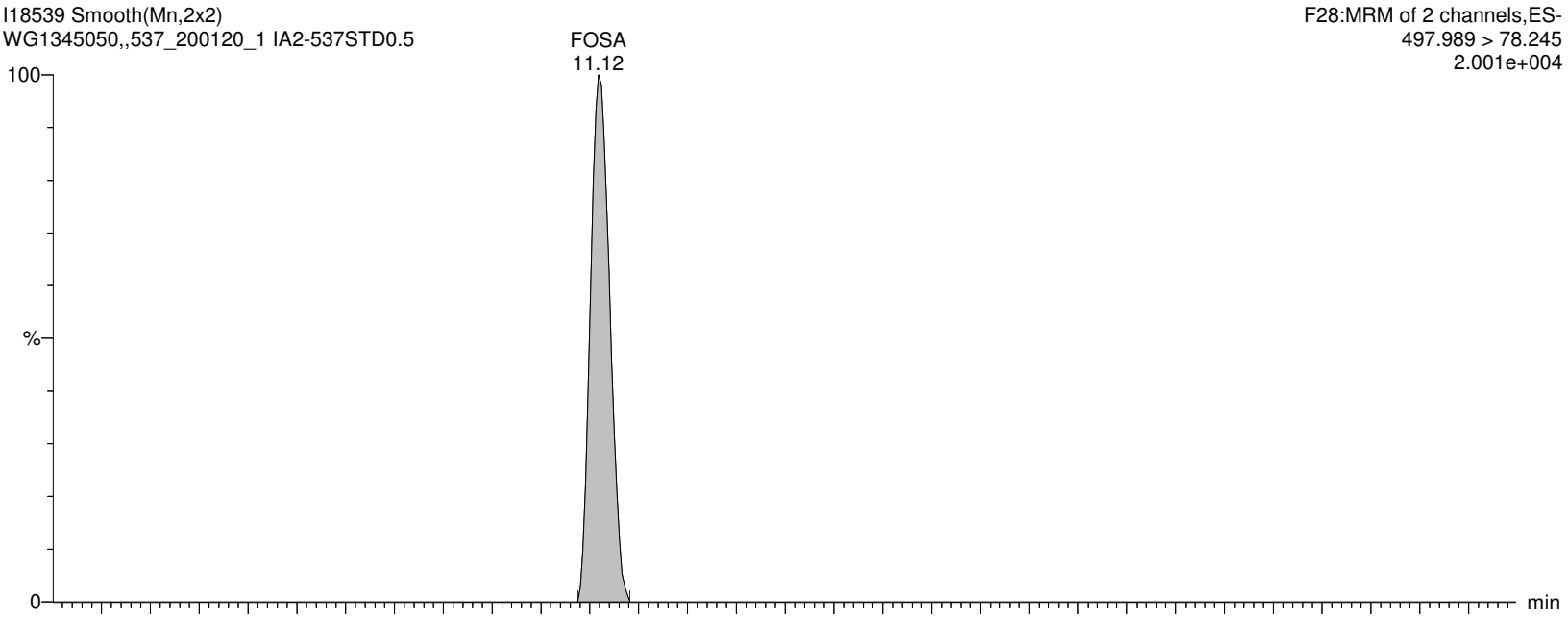
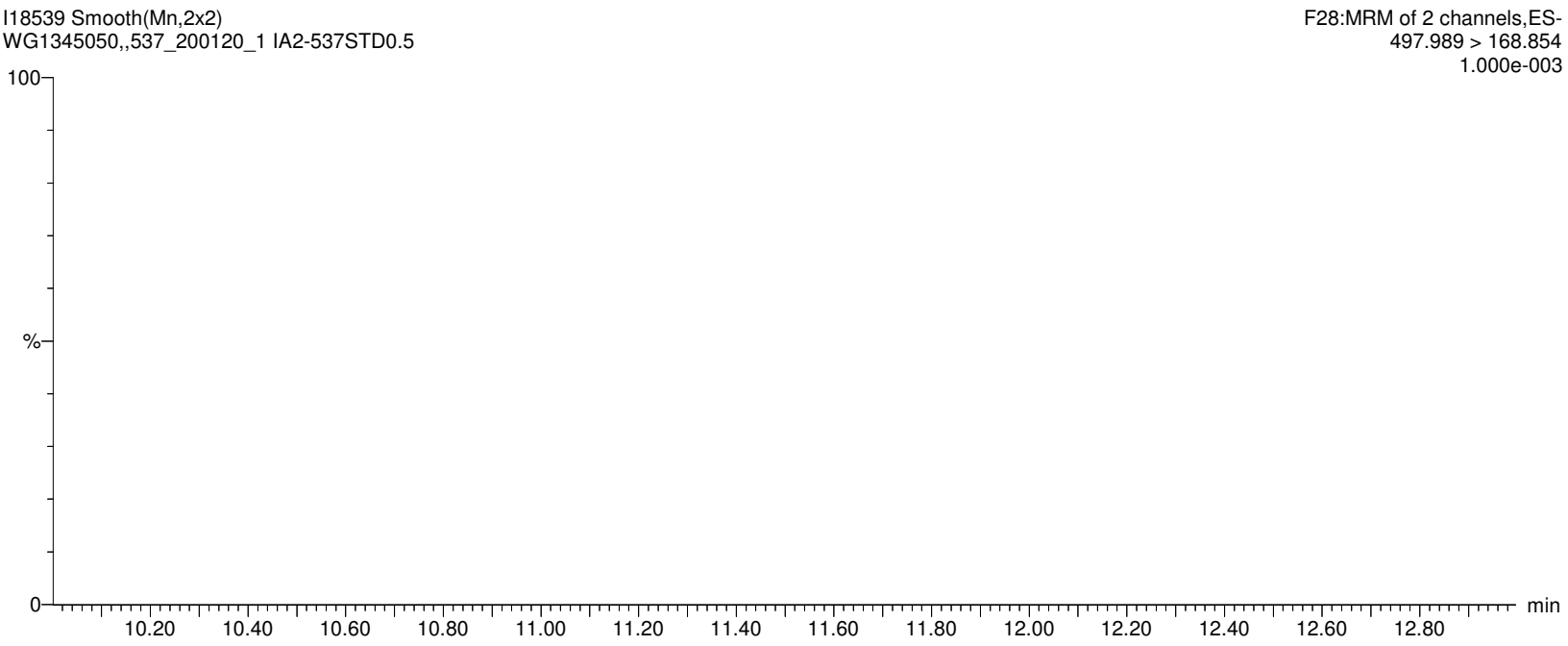
FOSA





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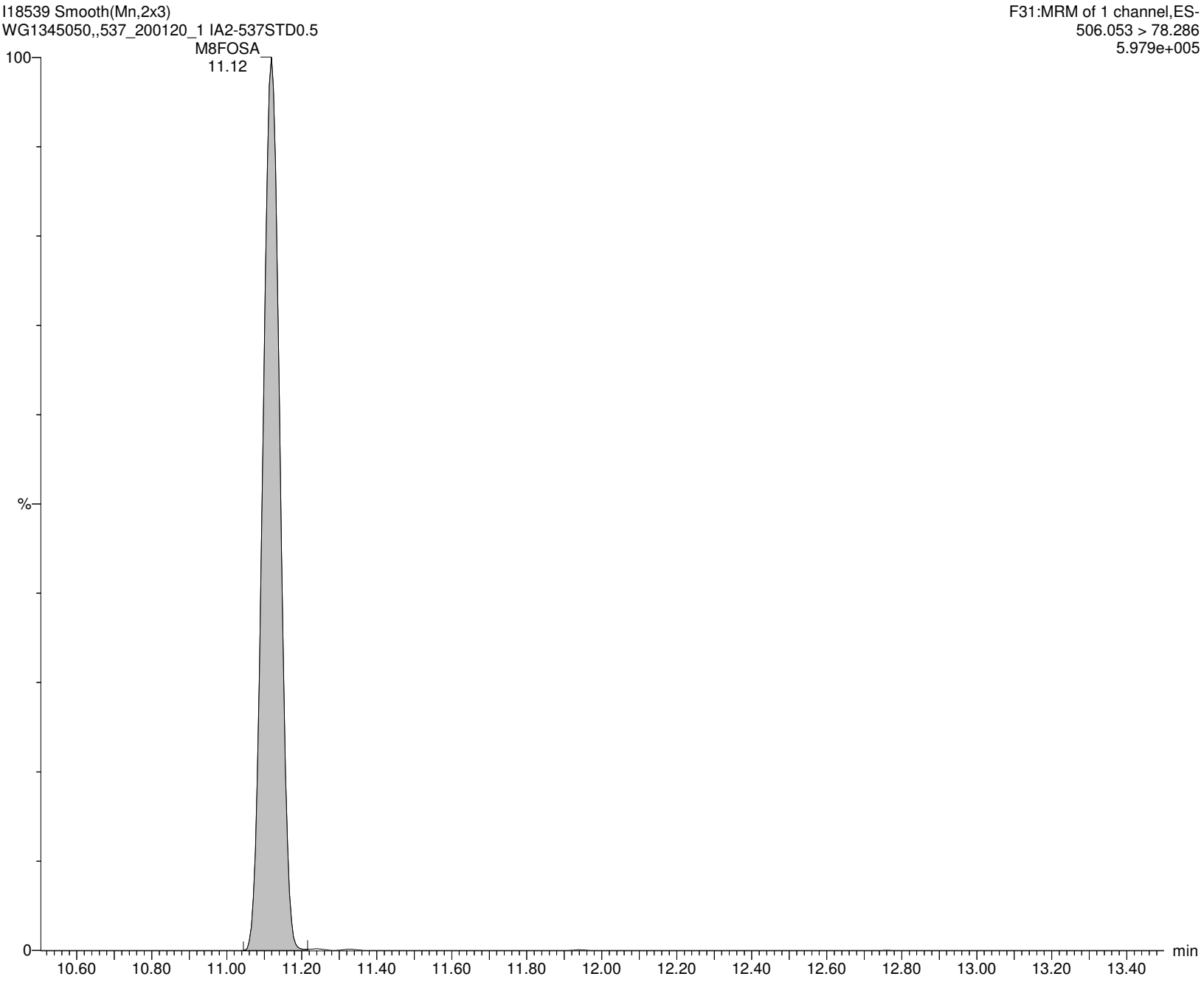

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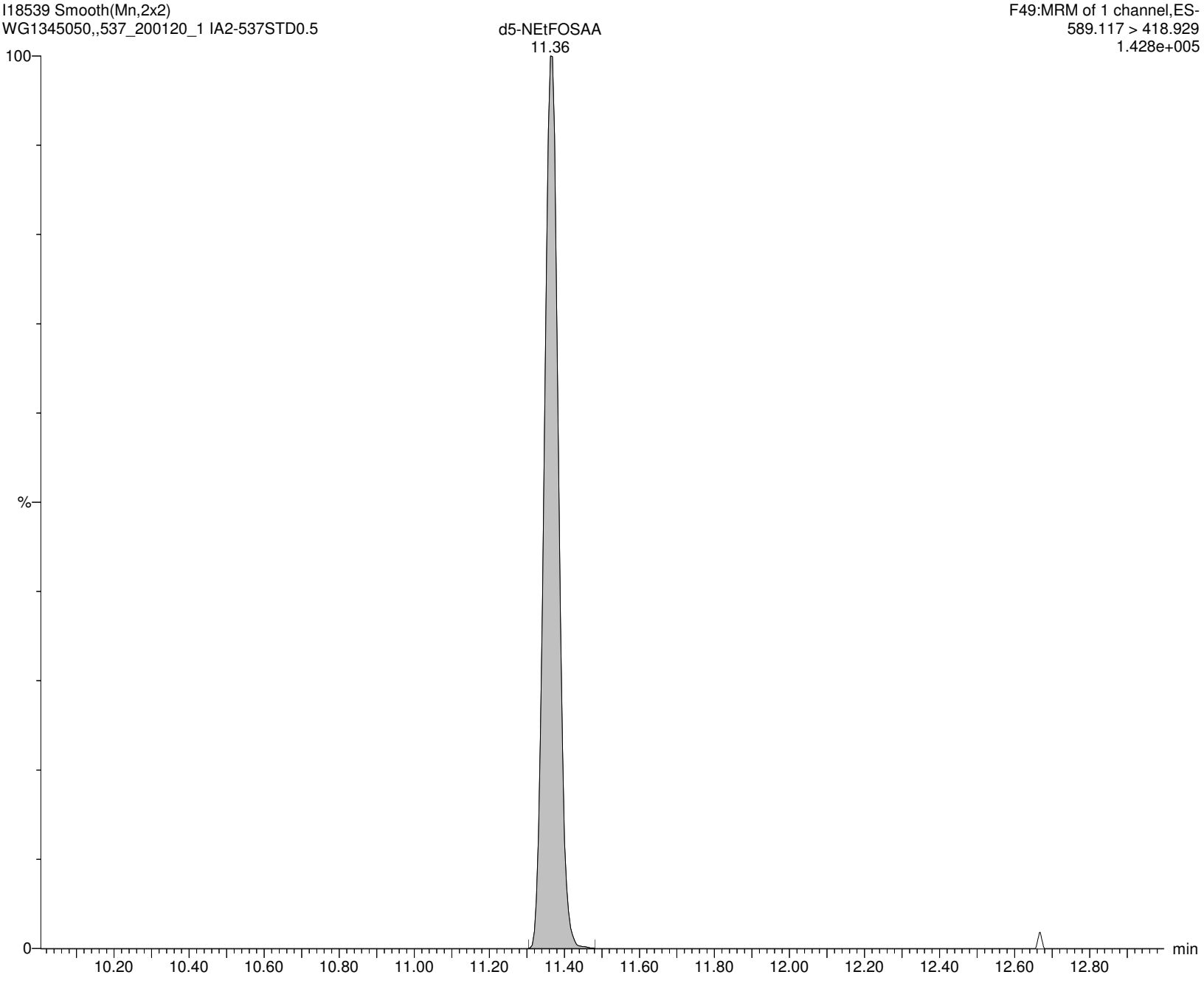
d5-NEtFOSAA



all concentration units in (ng/mL)

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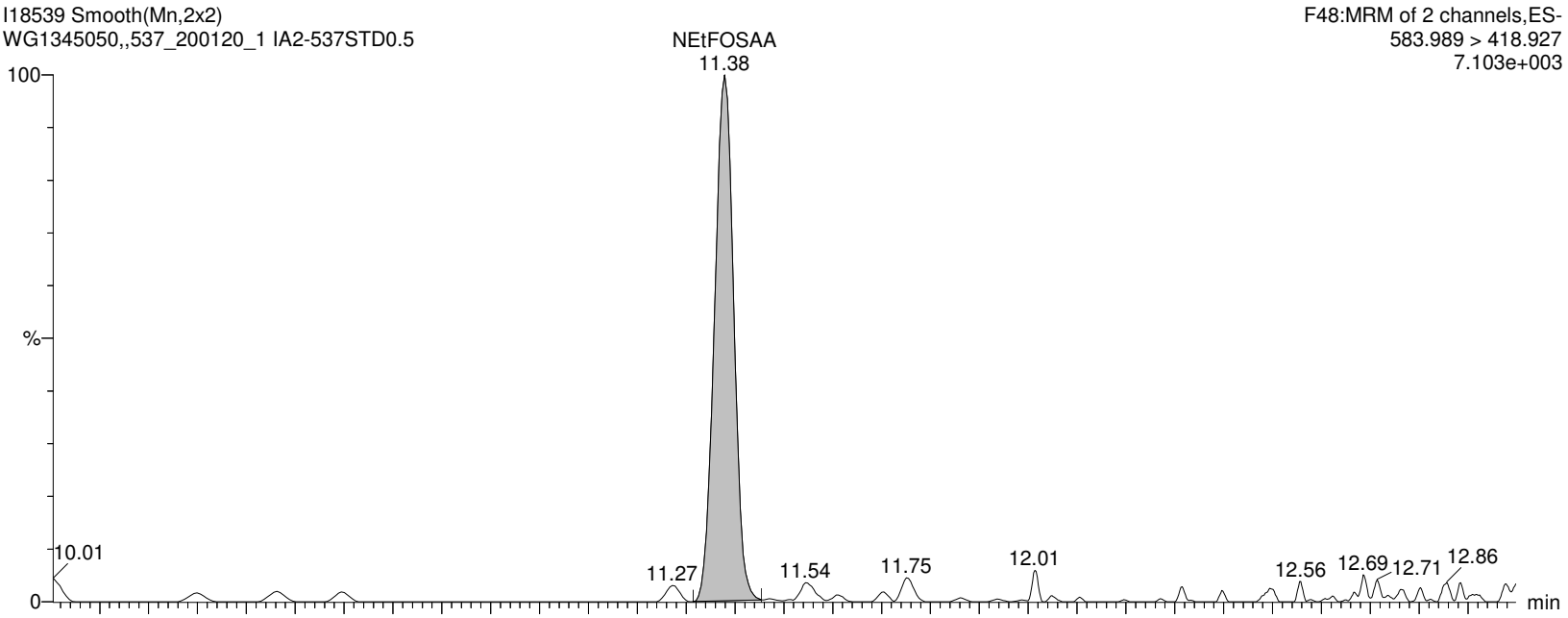

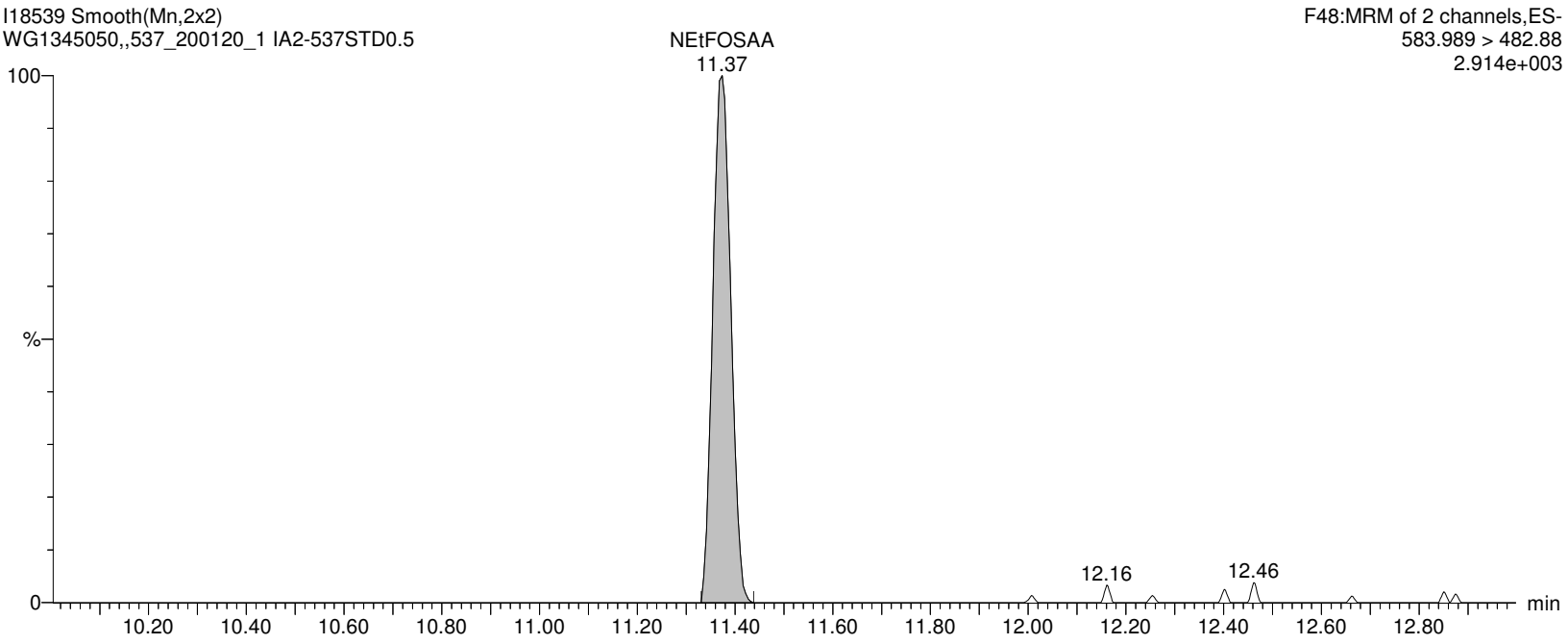

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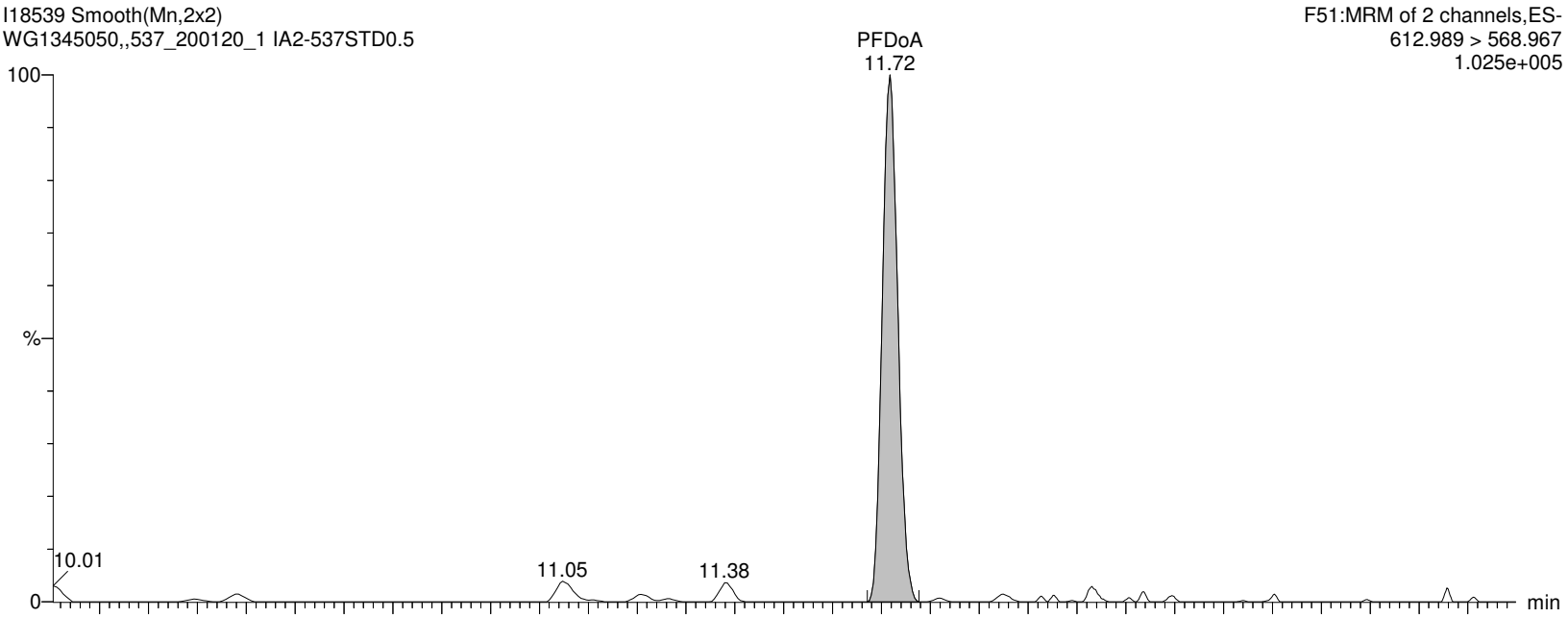

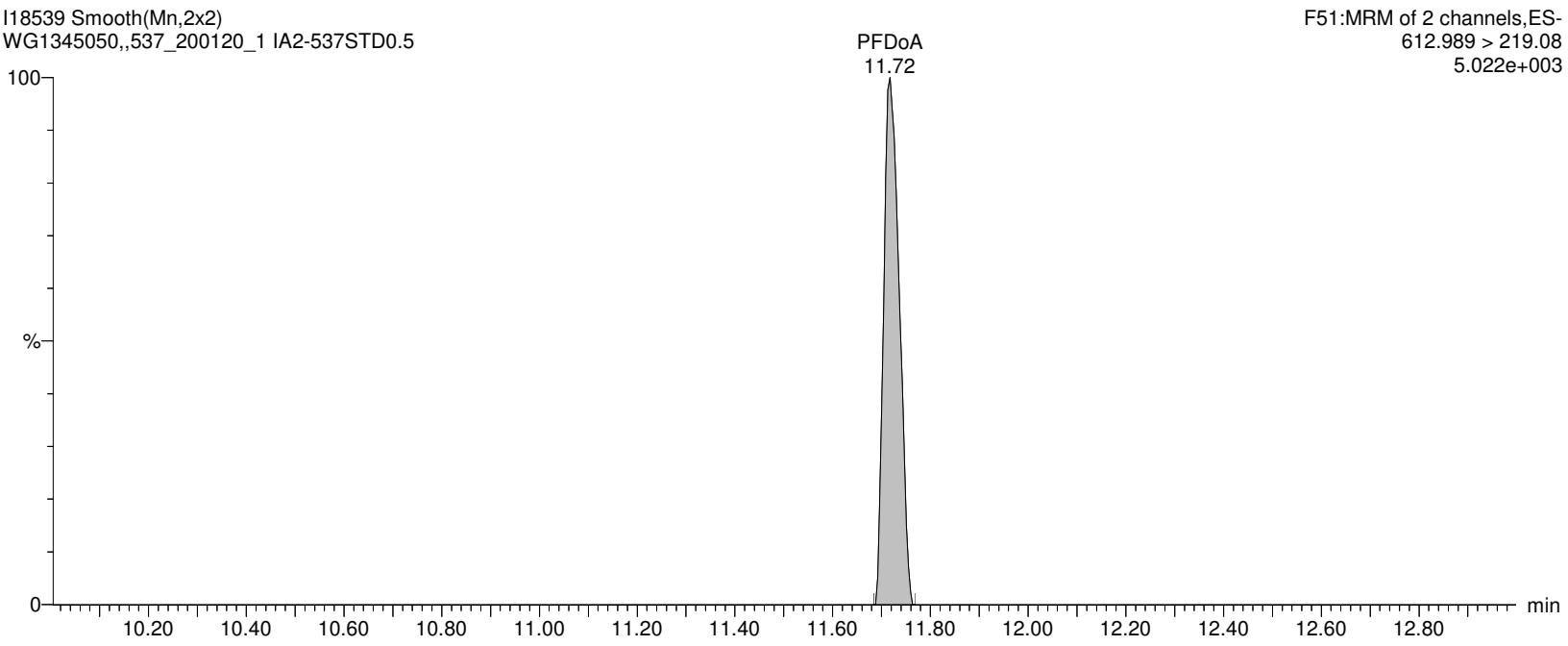

all concentration units in (ng/mL)

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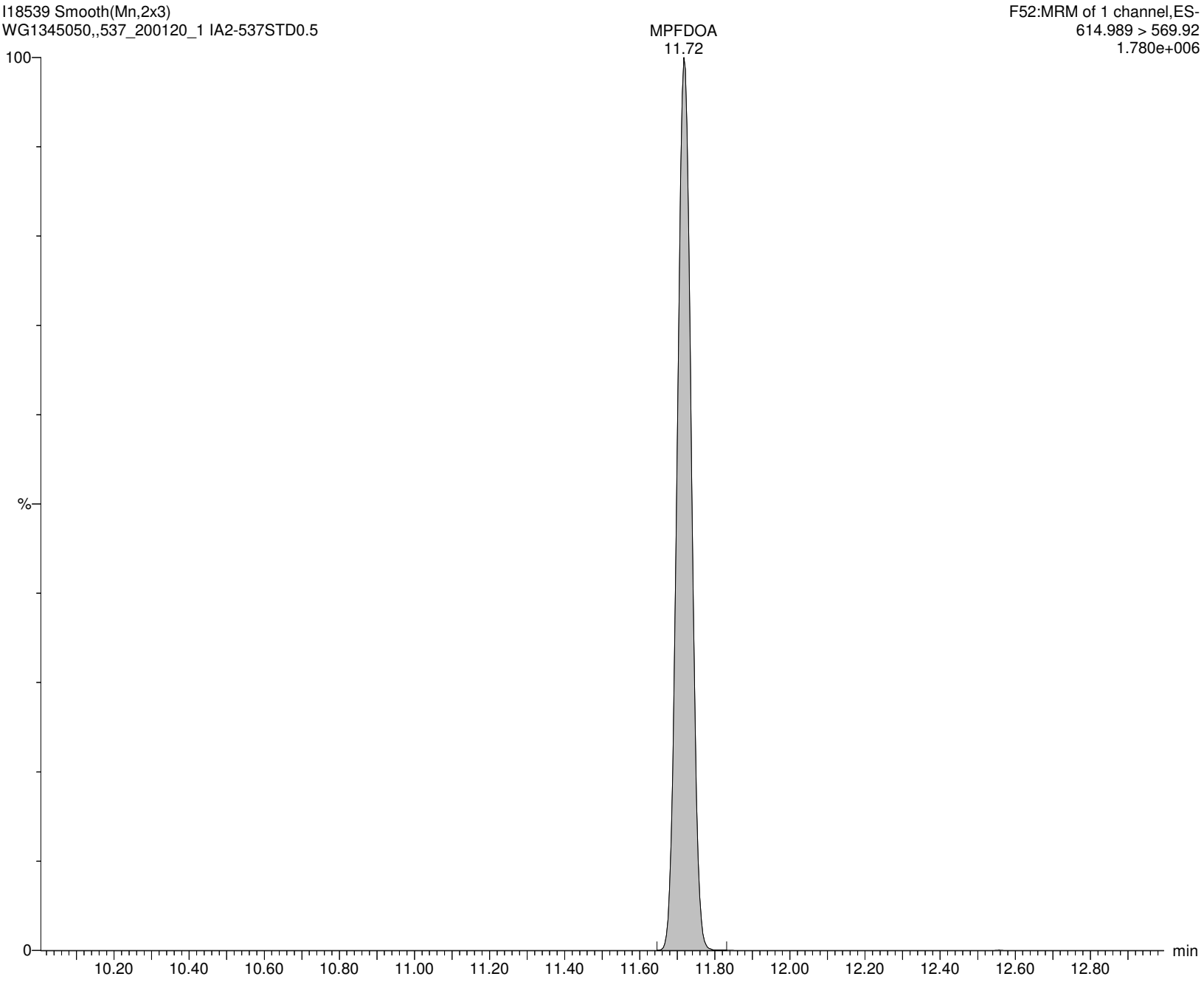

all concentration units in (ng/mL)

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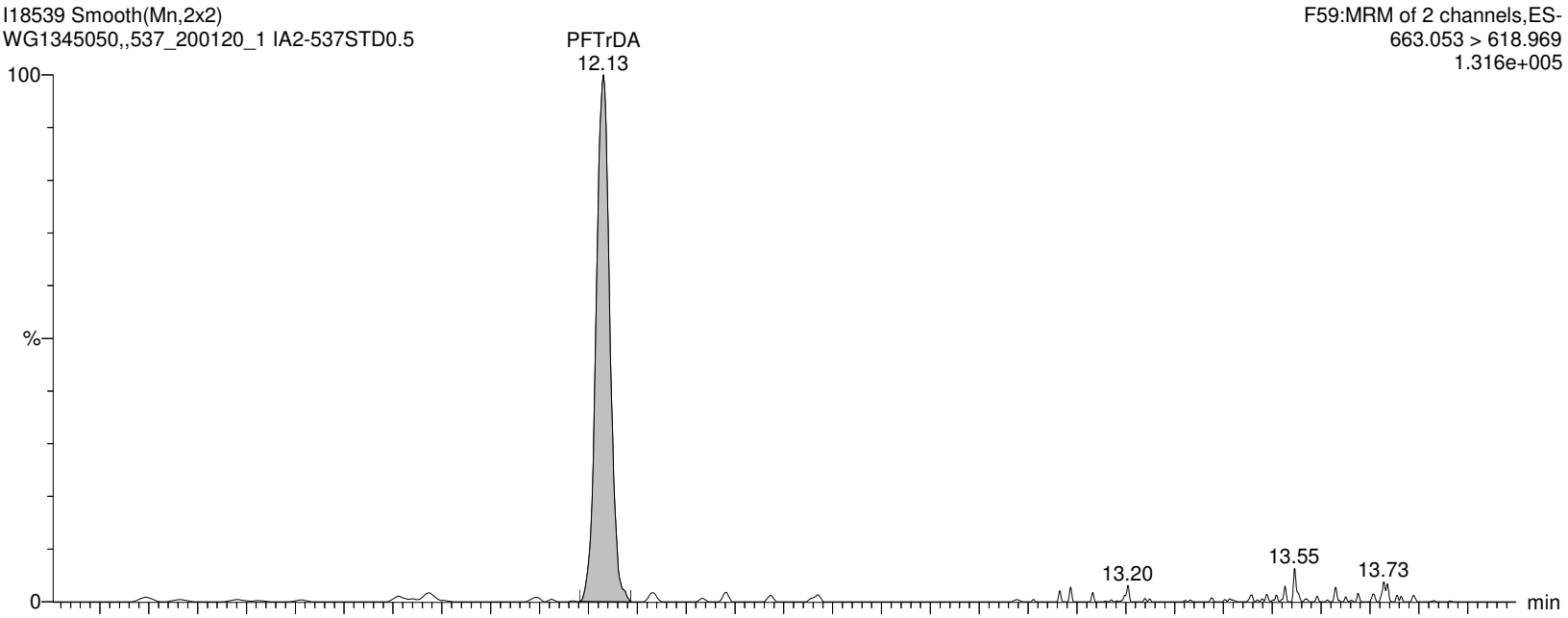

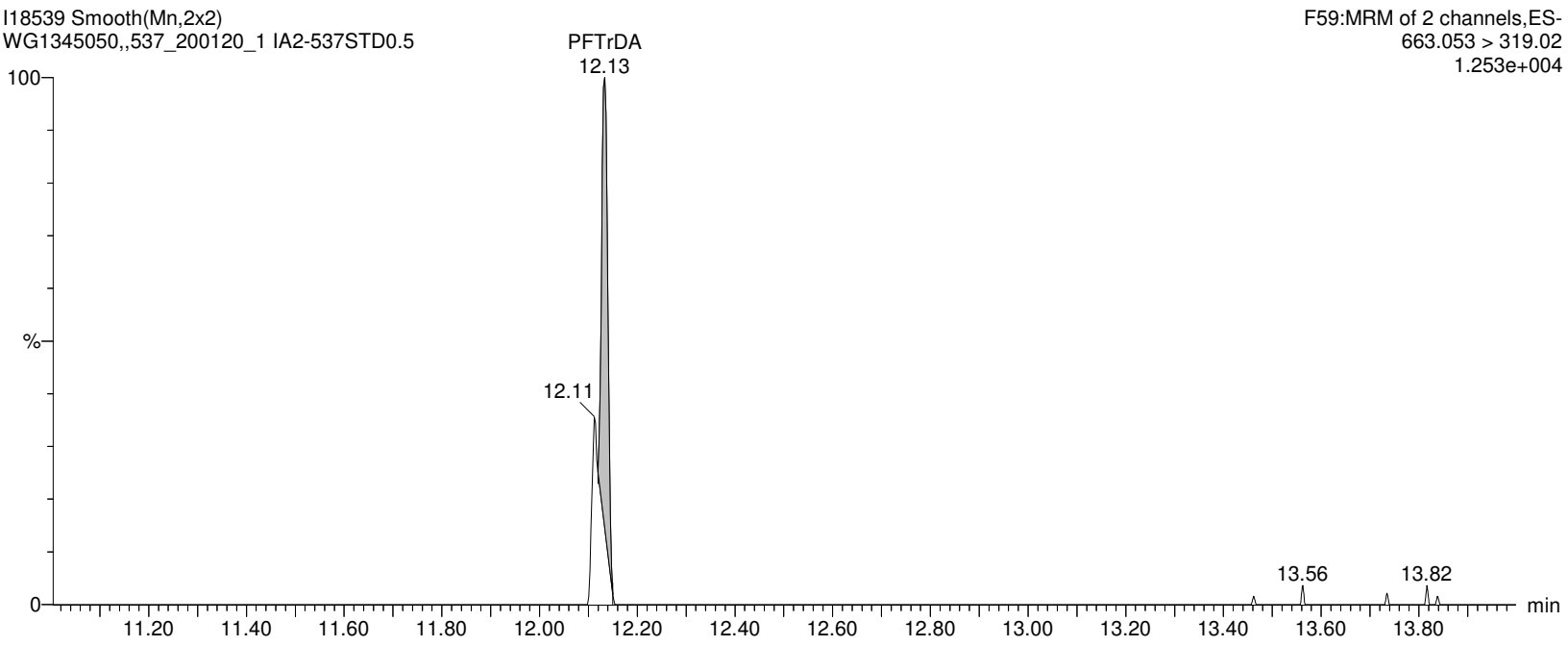

all concentration units in (ng/mL)

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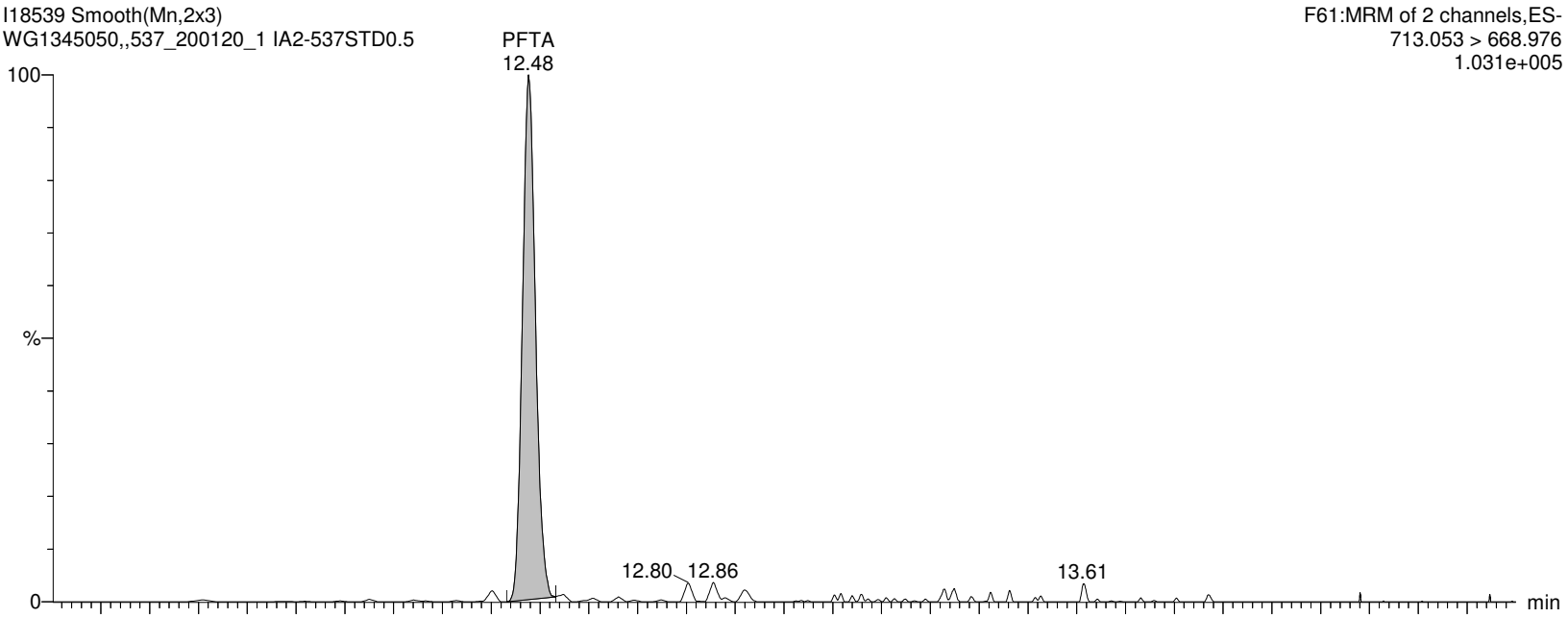

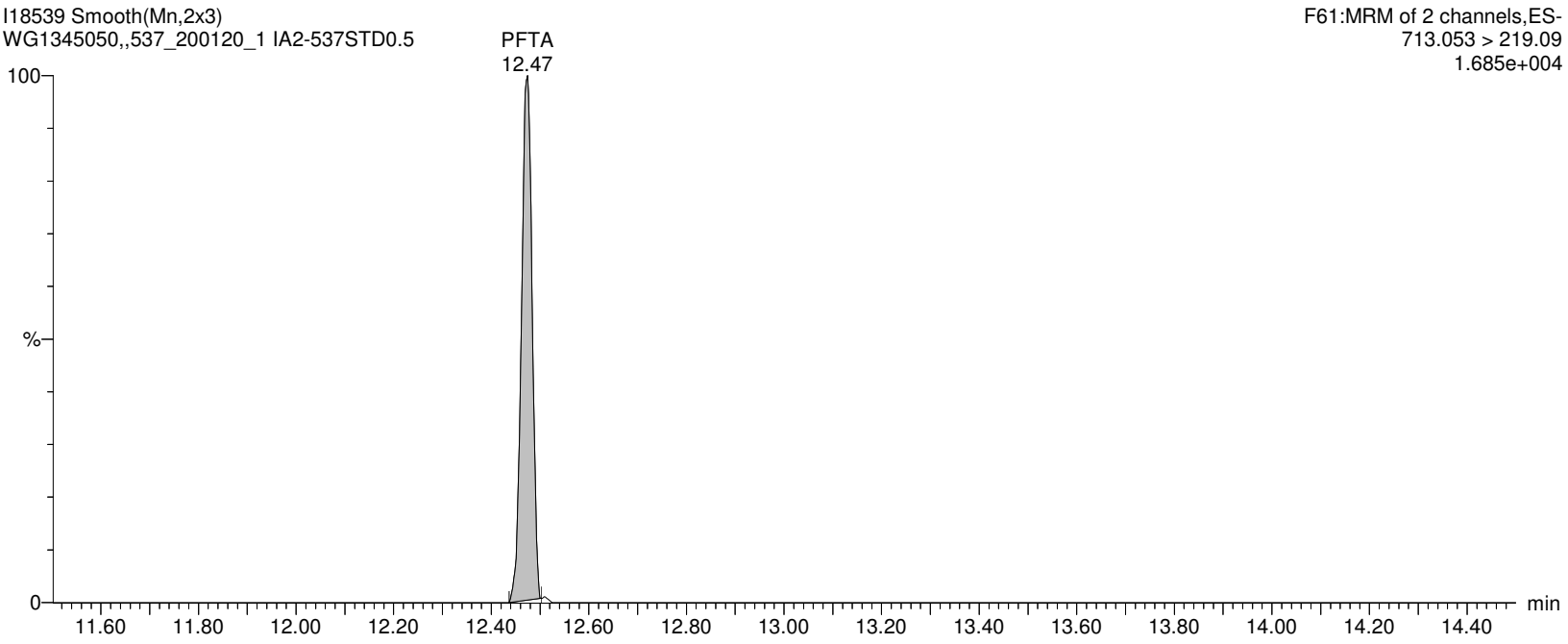

all concentration units in (ng/mL)

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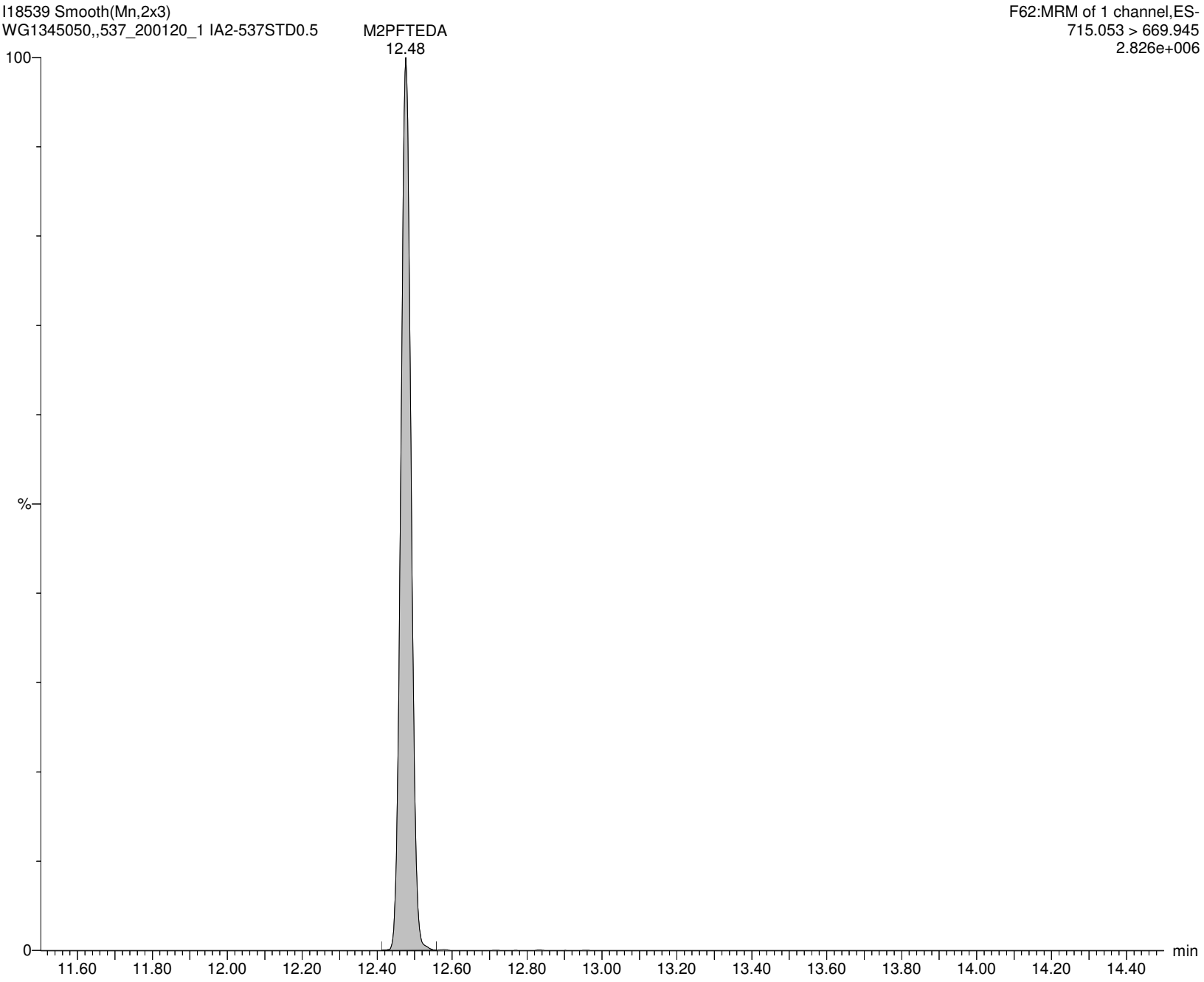

all concentration units in (ng/mL)

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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:00 Eastern Standard Time

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Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.24	212.926 > 169.111	2941		0.902		na	90.2
2	M3PFBA	INT STD	2.24	215.926 > 172.122	43388		11.034		na	110.3
3	MPFBA	INT STD	2.24	216.926 > 172.137	45026		9.057		na	90.6
4	PFPeA	2706-90-3	5.21	262.926 > 219.002	3950		0.923		na	92.3
5	M5PFPEA	INT STD	5.21	267.989 > 223.081	61540		9.330		na	93.3
6	PFBS	375-73-5	5.87	298.926 > 79.923	750		0.754	1.95	NO	85.3
7	M3PFBS	INT STD	5.87	301.989 > 80.254	11022		8.166		na	81.7
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	294		0.757	2.12	NO	81.0
9	M2-4:2FTS	INT STD	7.04	329.117 > 309.079	4761		6.770		na	67.7
10	PFHxA	307-24-4	7.12	312.989 > 269.028	5980		0.982	17.06	NO	98.2
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	73498		8.856		na	88.6
12	PFPeS	2706-91-4	7.43	348.926 > 80.251	769		0.754	2.08	NO	80.2
13	PFHpA	375-85-9	8.39	362.926 > 319.014	6462		0.795	5.76	NO	79.5
14	M4PFHpA	INT STD	8.39	366.926 > 321.979	88560		9.198		na	92.0
15	br-PFHxS	355-46-4	8.31	398.904 > 79.915	110	M2	0.140		YES	82.3
16	L-PFHxS	355-46-4	8.55	398.904 > 79.915	528		0.665		YES	89.8
17	PFHxS	355-46-4		398.904 > 79.915	638		0.805		na	
18	M3PFHxS	INT STD	8.55	401.926 > 80.317	10742		8.883		na	88.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.33	412.989 > 368.9	6074		0.814	6.94	NO	81.4
21	M2PFOA	INT STD	9.34	415.032 > 369.968	101367		12.049		na	120.5
22	PFOA	335-67-1		412.989 > 368.9	6074		0.814		na	
23	M8PFOA	INT STD	9.34	420.989 > 375.979	86721		8.972		na	89.7
24	6:2FTS	27619-97-2	9.30	426.989 > 406.921	100		1.152	0.91	NO	121.3
25	M2-6:2FTS	INT STD	9.30	428.989 > 408.917	3637		8.312		na	83.1
26	PFHpS	375-92-8	9.42	448.926 > 80.257	448		0.910	1.24	NO	95.7
27	PFNA	375-95-1	10.08	462.989 > 418.931	5135		0.794	3.06	NO	79.4
28	M9PFNA	INT STD	10.08	472.053 > 426.947	86879		9.193		na	91.9
29	br-PFOS	1763-23-1	9.94	498.968 > 79.918	155	M5	0.213	2.99	NO	106.5
30	L-PFOS	1763-23-1	10.14	498.968 > 79.918	403		0.759	1.26	NO	104.0
31	PFOS	1763-23-1		498.968 > 79.918	557		0.972		na	
32	M4PFOS	INT STD	10.13	503.032 > 80.306	10521		12.387		na	123.9
33	M8PFOS	INT STD	10.14	507.053 > 80.294	9846		8.058		na	80.6
34	PFDA	335-76-2	10.71	513.053 > 468.906	5443		0.818	5.77	NO	81.8
35	M2PFDA	INT STD	10.71	515.053 > 469.934	82804		12.518		na	125.2
36	M6PFDA	INT STD	10.71	519.053 > 473.931	86922		9.541		na	95.4
37	8:2FTS	39108-34-4	10.70	527.032 > 507.079	140		1.035	1.77	NO	107.8
38	M2-8:2FTS	INT STD	10.70	529.053 > 508.945	2019		7.631		na	76.3
39	PFNS	68259-12-1	10.73	548.989 > 80.249	698		1.050	3.37	YES	109.4

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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ID: IA2-537STD1.0
Name: I18540
Date: 27-Feb-2020
Time: 17:04:20
Description: WG1345050,,537_200120_2
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	9446		7.827		na	78.3
41	NMeFOSAA	2355-31-9	11.09	570.053 > 418.917	576		1.021	2.13	NO	102.1
42	PFUnA	2058-94-8	11.25	562.989 > 518.903	5800		0.771	7.38	NO	77.1
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	80848		10.099		na	101.0
44	PFDS	335-77-3	11.26	598.926 > 80.314	544		0.841	1.92	NO	87.1
45	FOSA	754-91-6	11.12	497.989 > 78.245	2302		0.946		YES	94.6
46	M8FOSA	INT STD	11.12	506.053 > 78.286	29538		8.090		na	80.9
47	d5-NEtFOSAA	INT STD	11.37	589.117 > 418.929	7293		8.287		na	82.9
48	NEtFOSAA	2991-50-6	11.38	583.989 > 418.927	587		0.944	3.50	NO	94.4
49	PFDoA	307-55-1	11.72	612.989 > 568.967	6560		0.889	11.89	NO	88.9
50	MPFDOA	INT STD	11.72	614.989 > 569.92	81293		9.445		na	94.5
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	7109		0.962	13.34	NO	96.2
52	PFTA	376-06-7	12.48	713.053 > 668.976	5741		0.942	8.03	NO	94.2
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	82219		8.476		na	84.8

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Name: I18540
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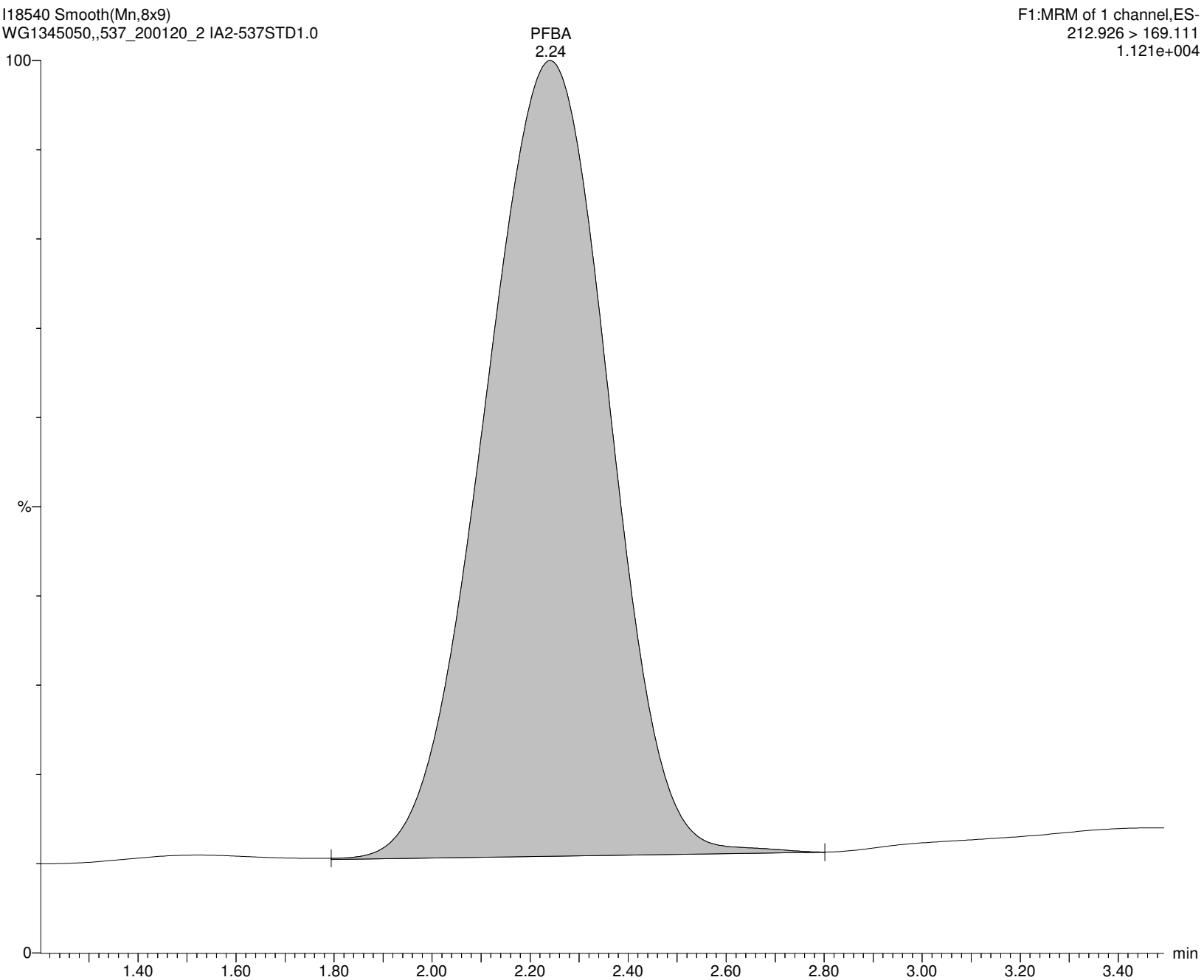

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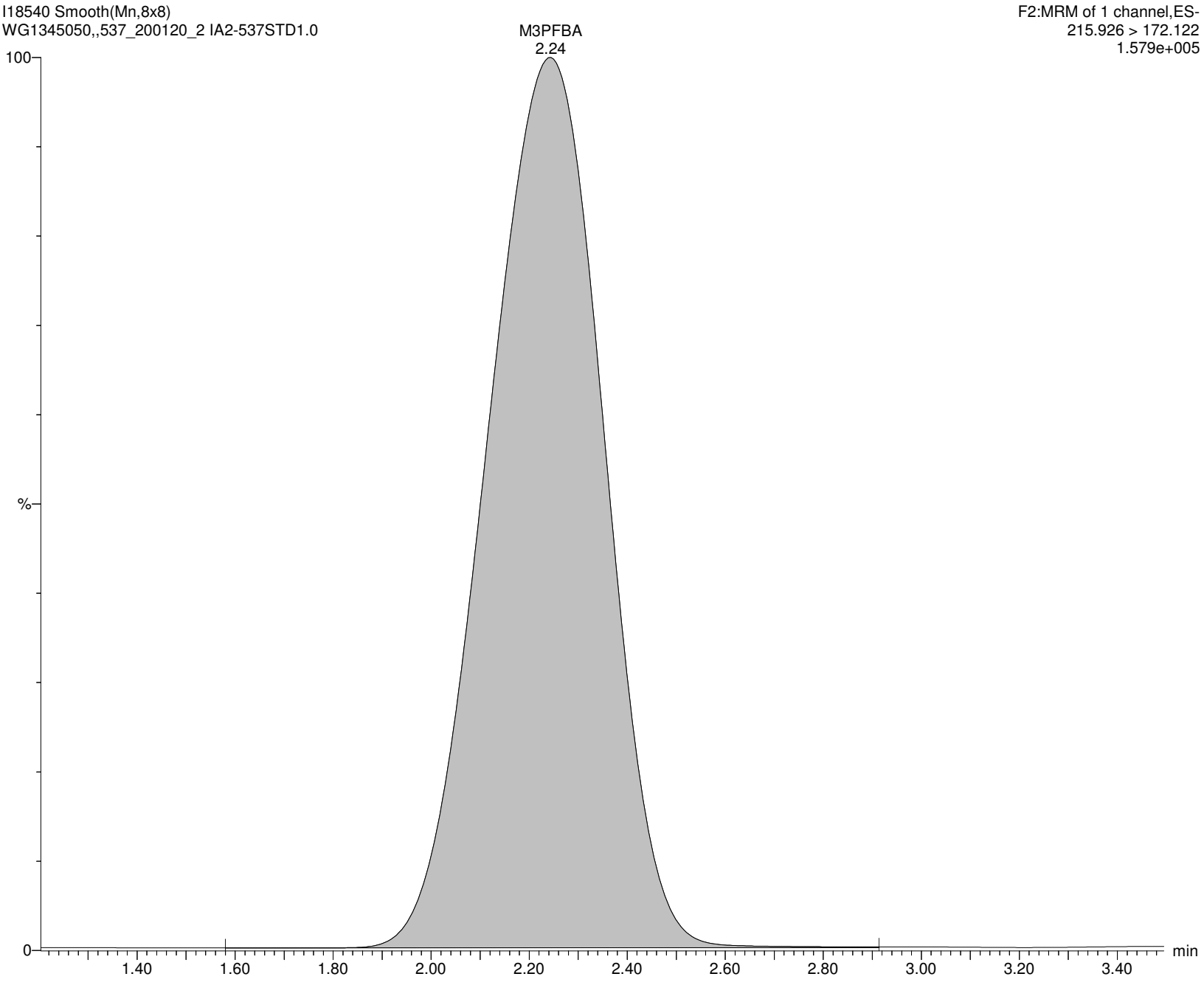

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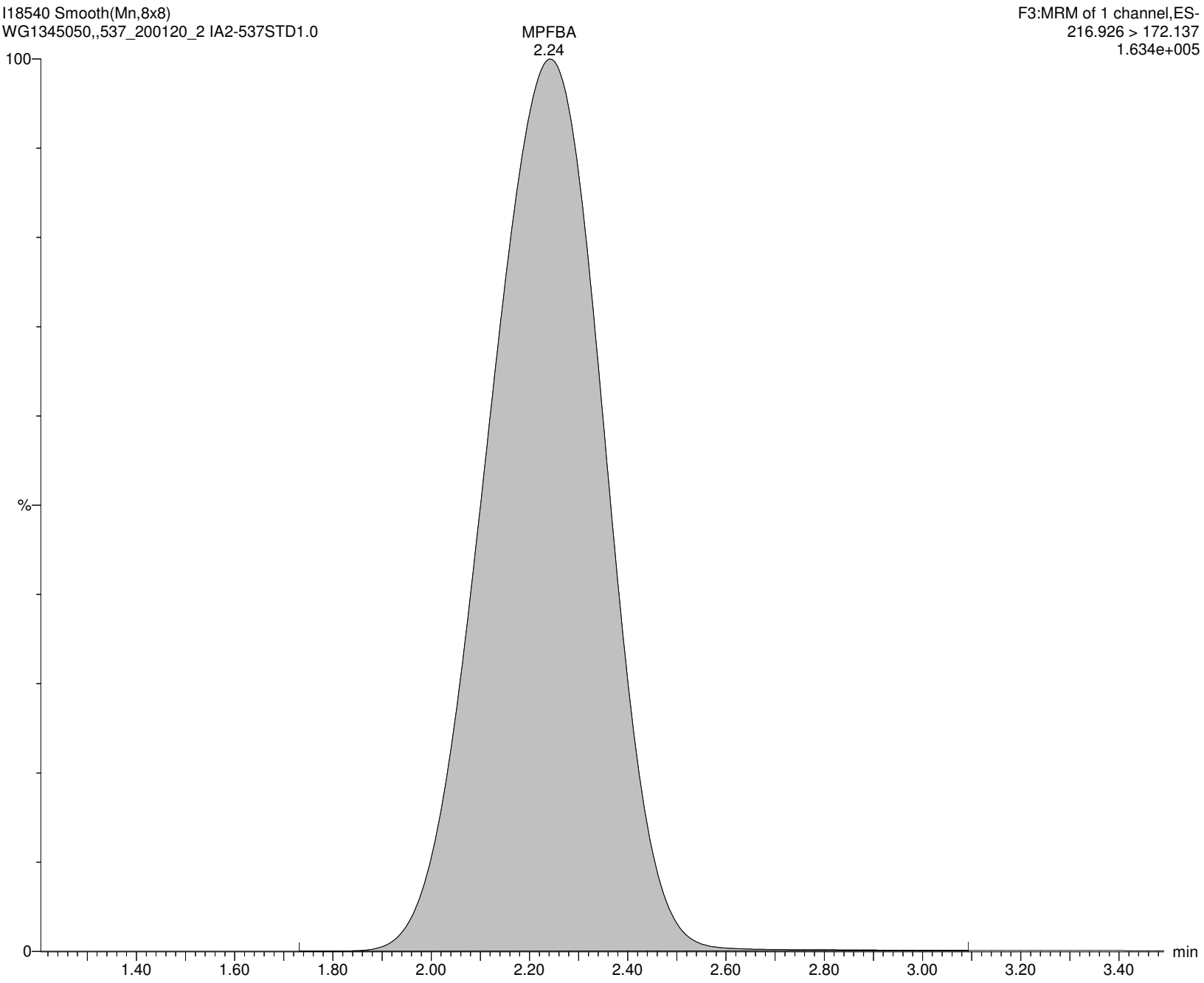

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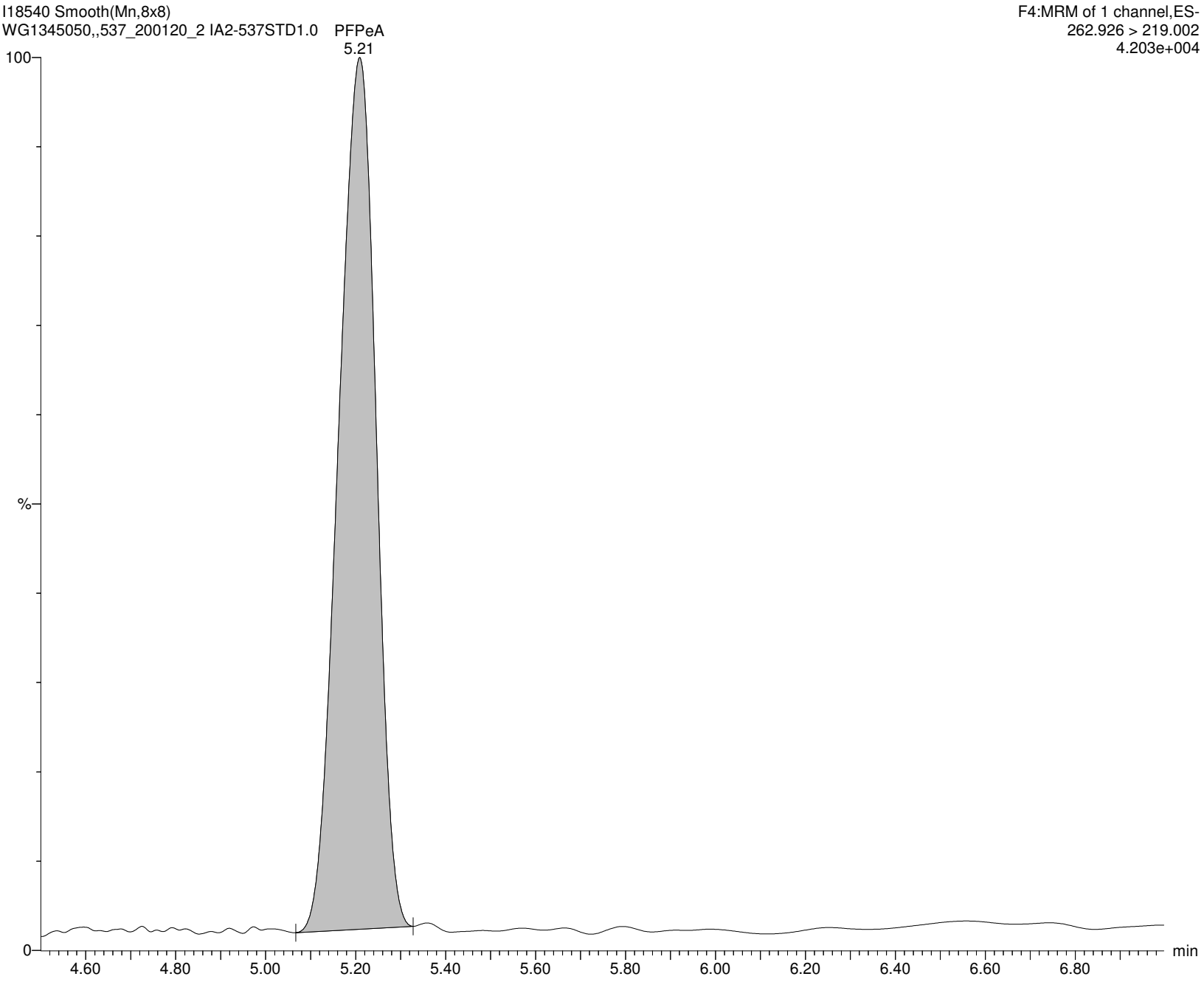

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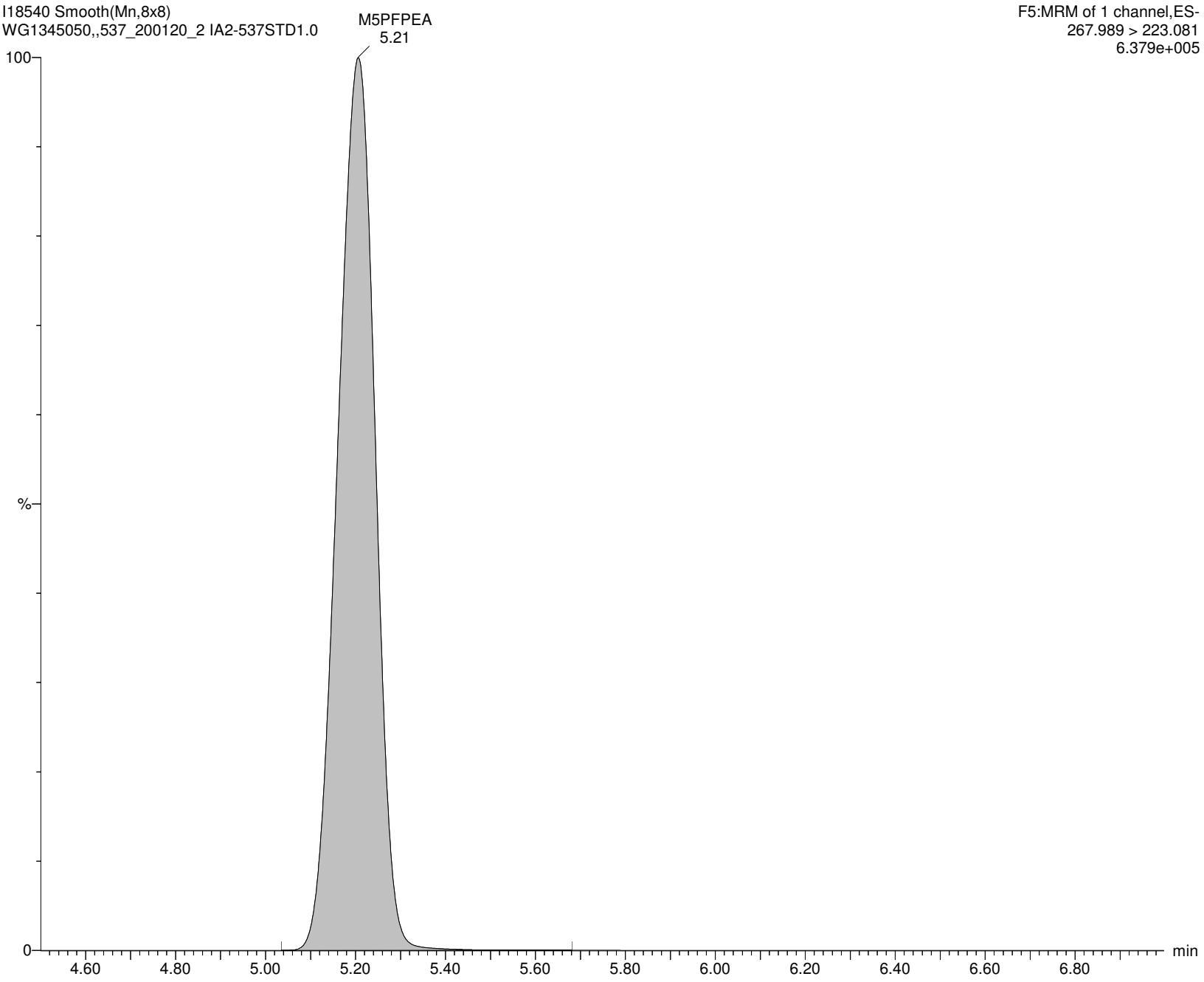

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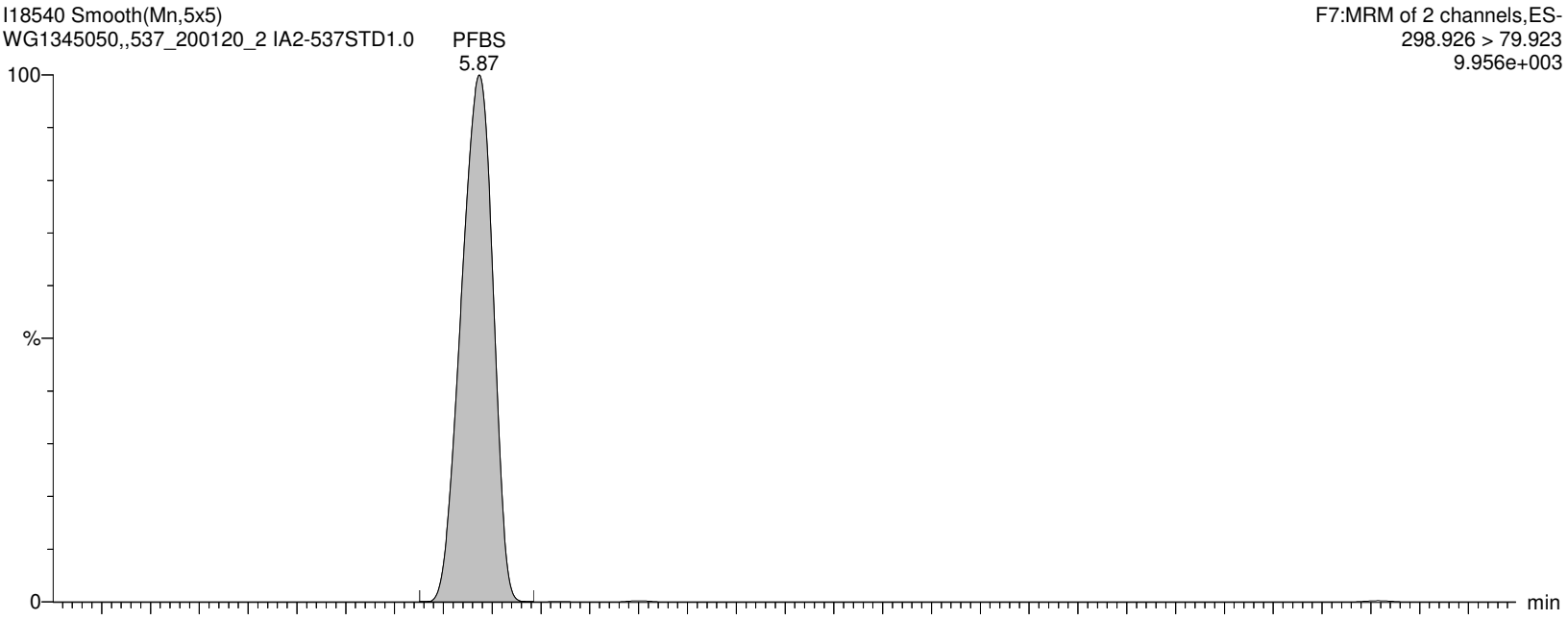

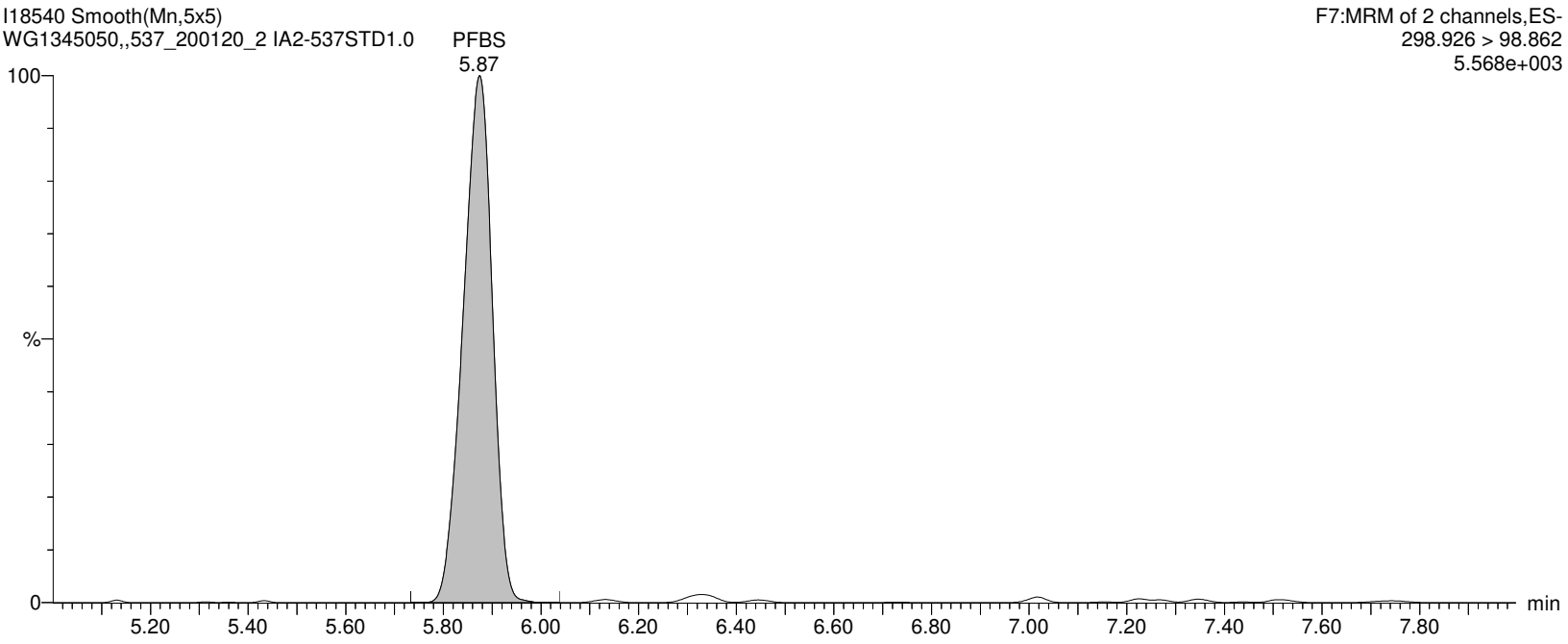

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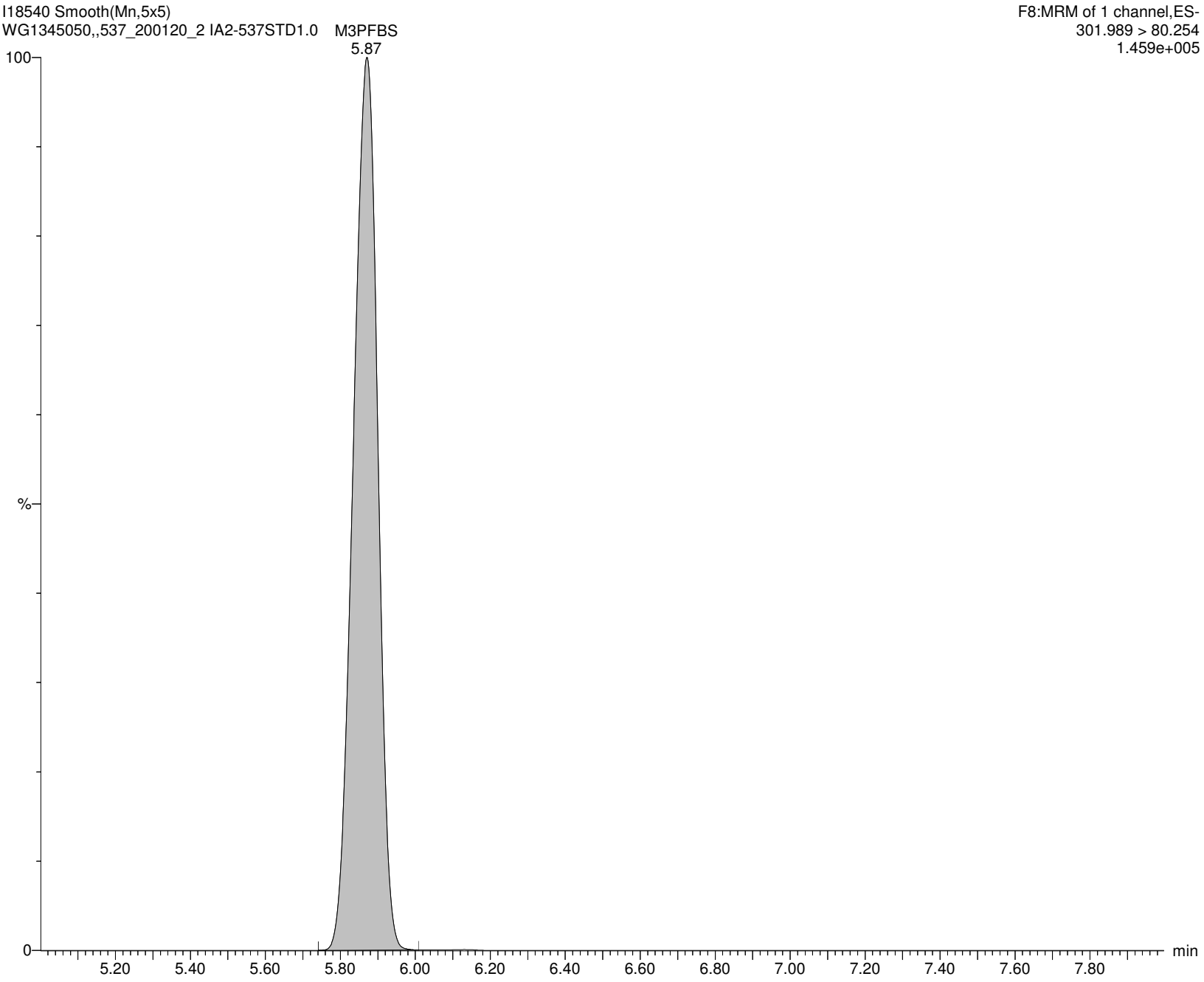

all concentration units in (ng/mL)

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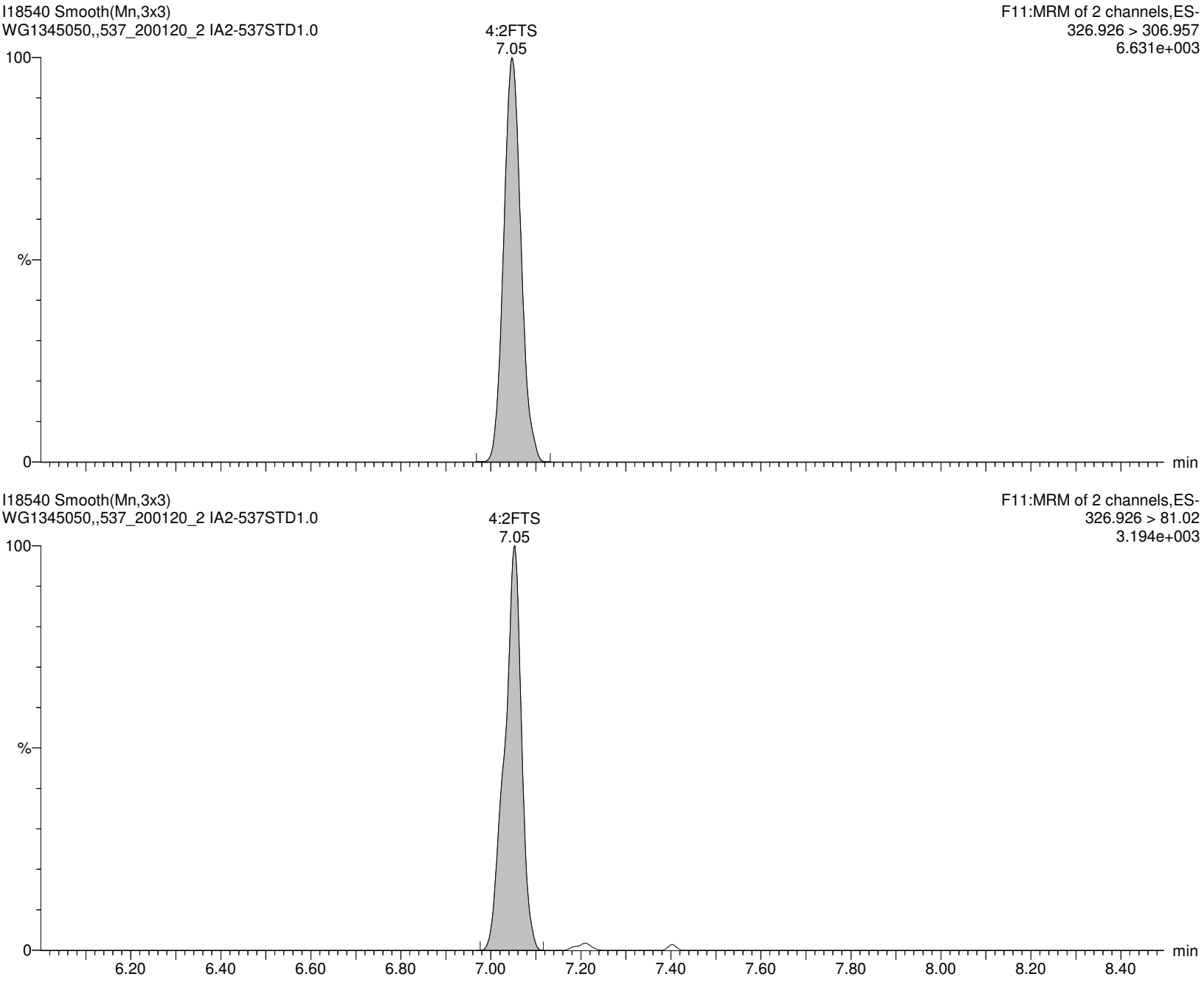
4:2FTS



all concentration units in (ng/mL)

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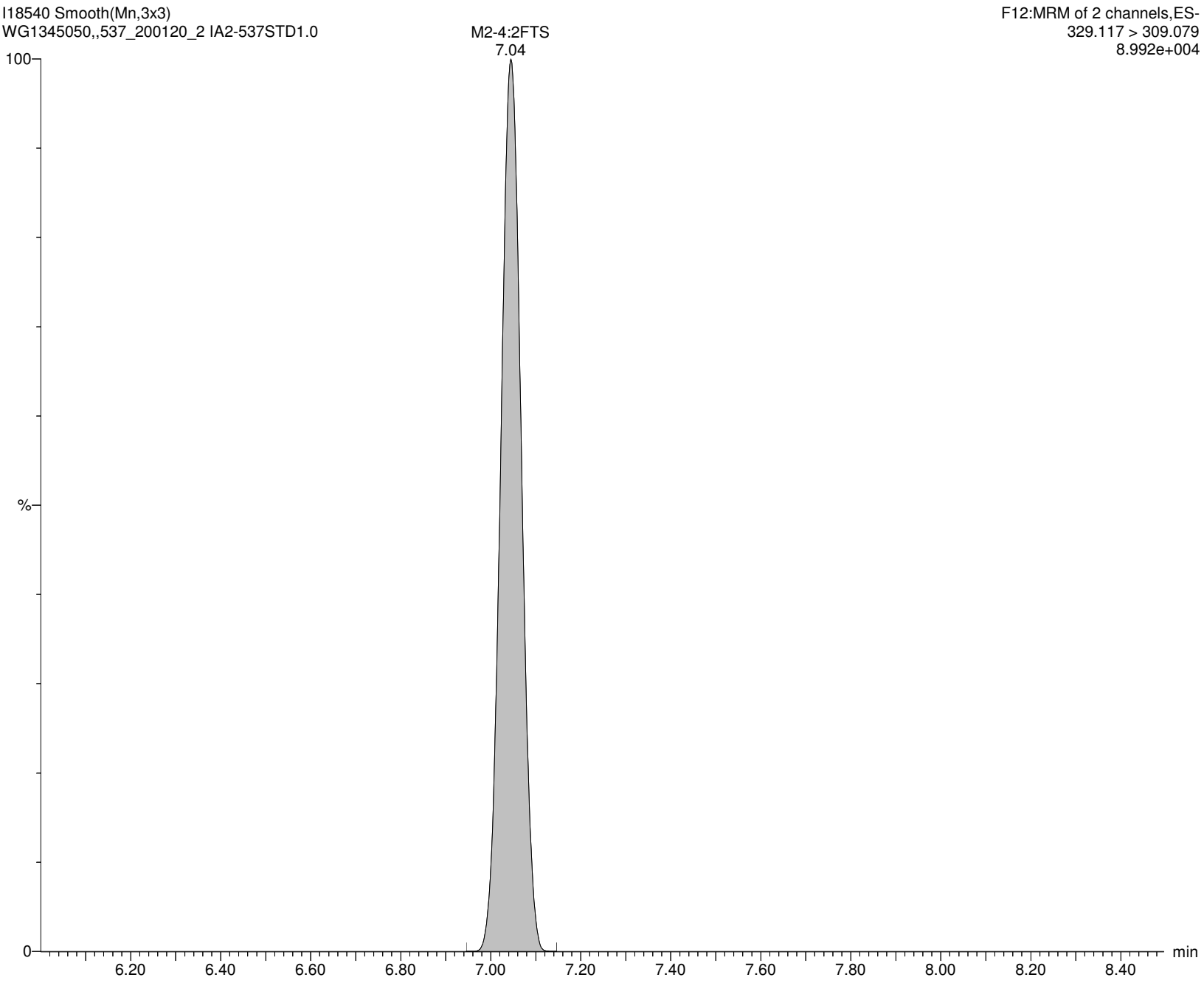
M2-4:2FTS



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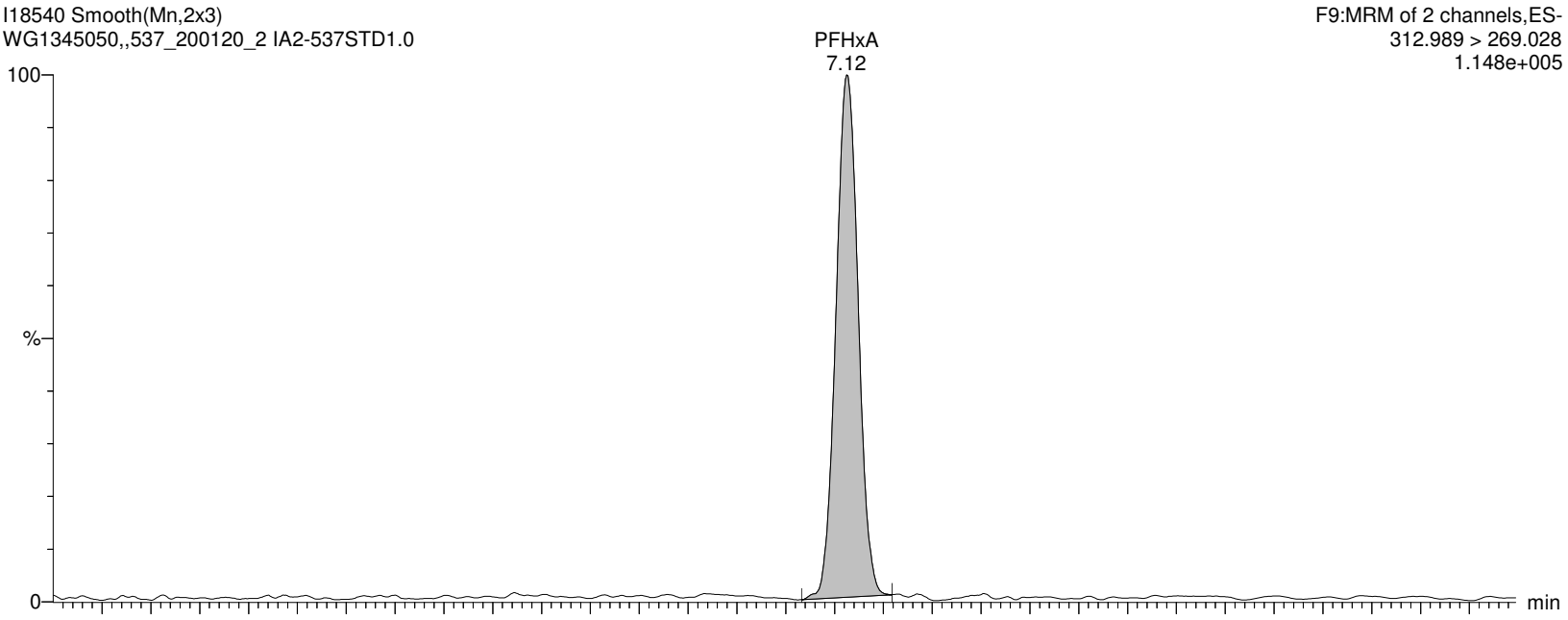

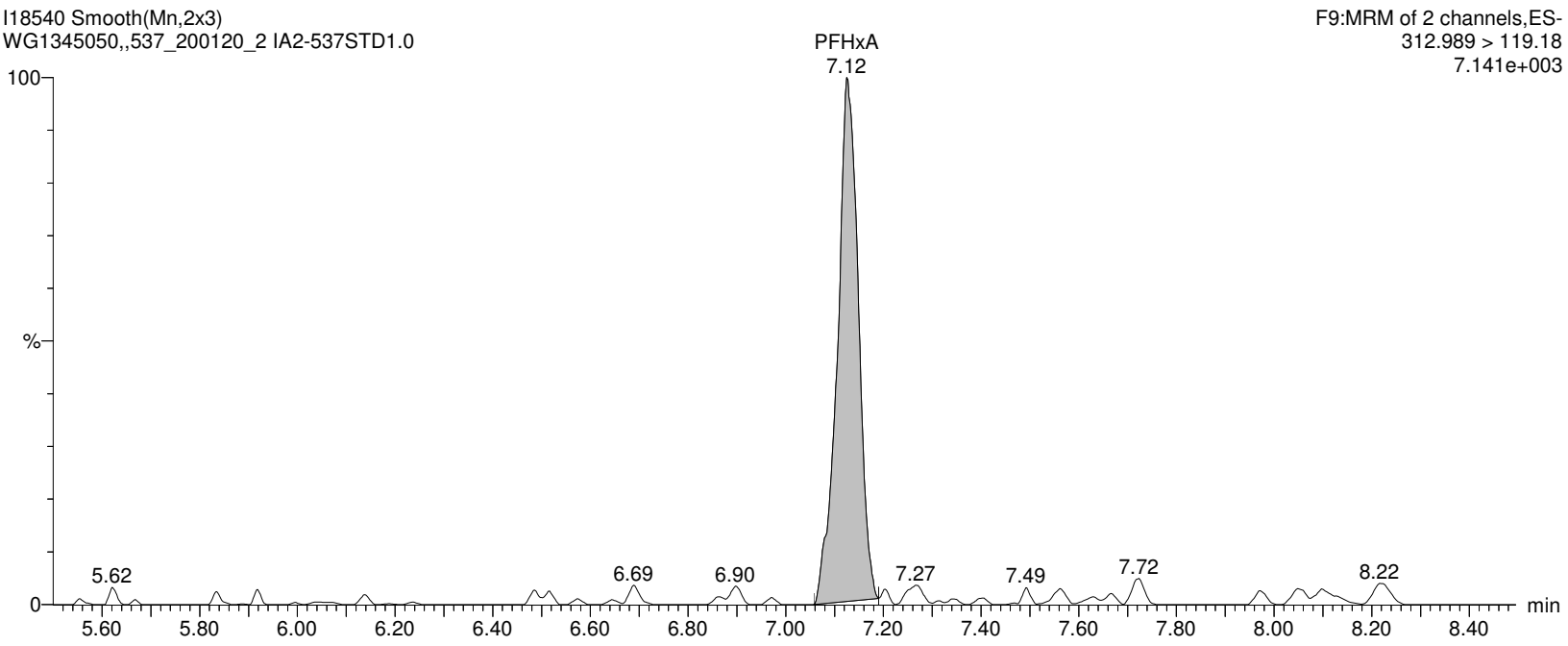

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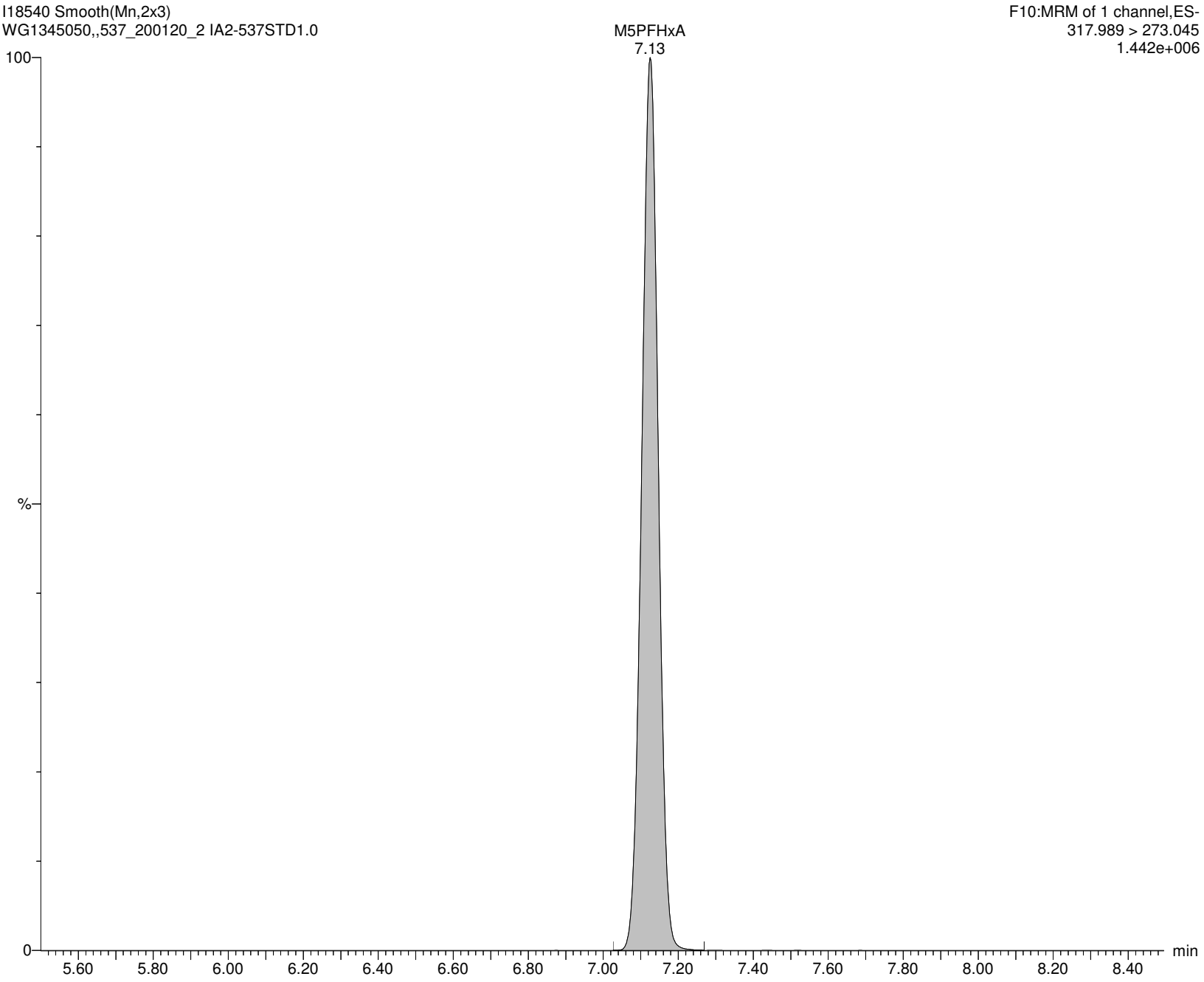

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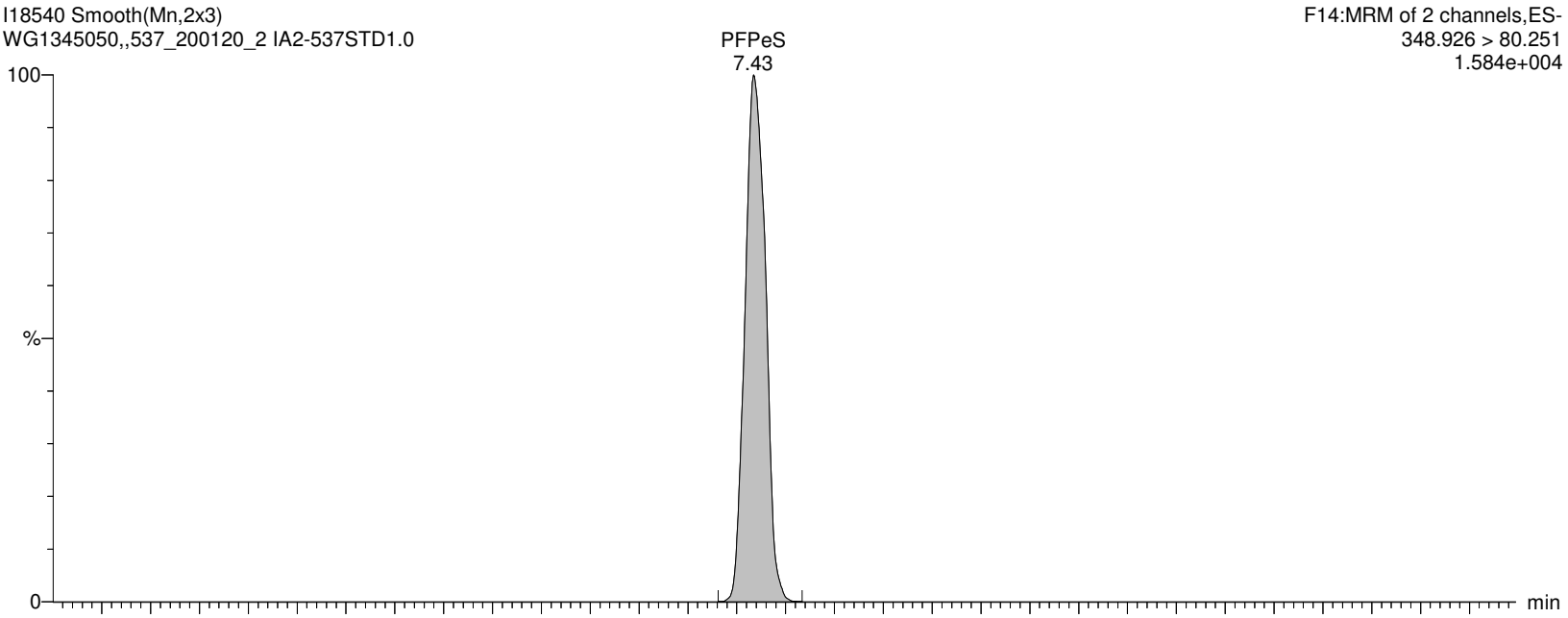

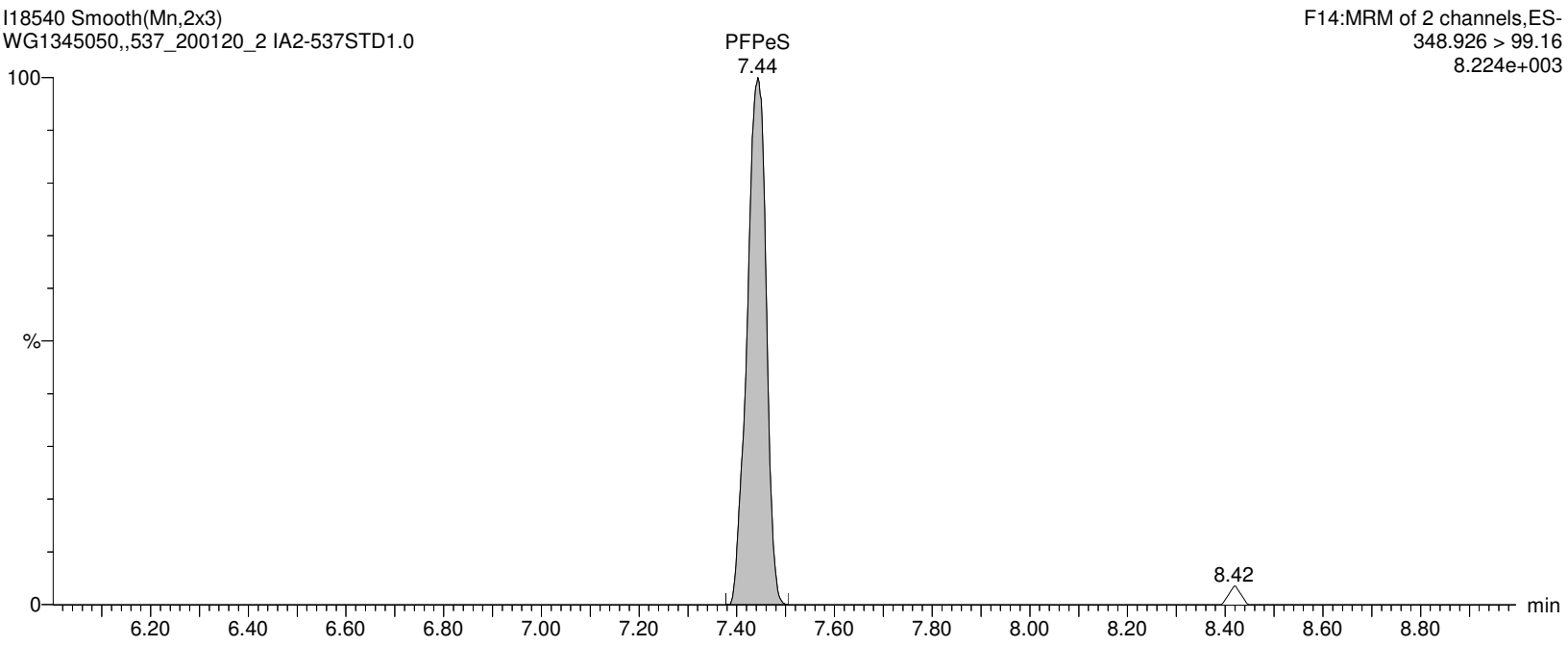

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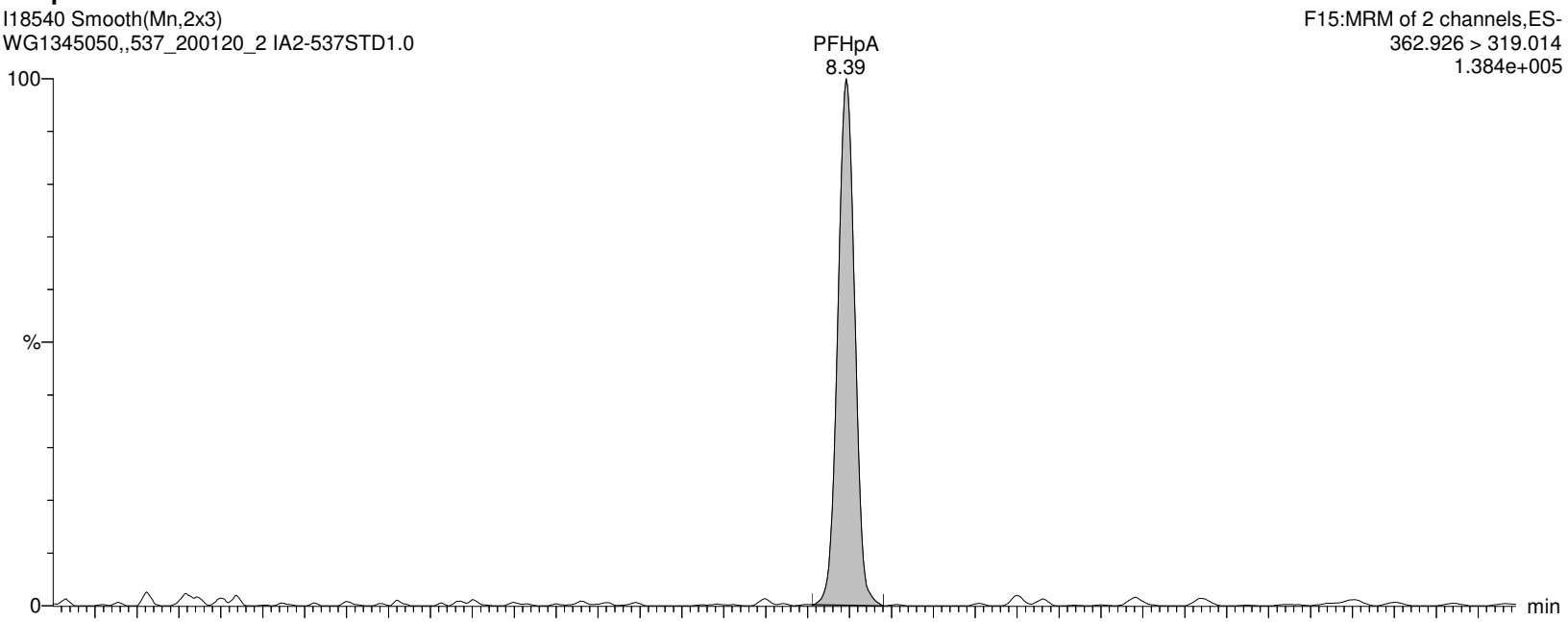
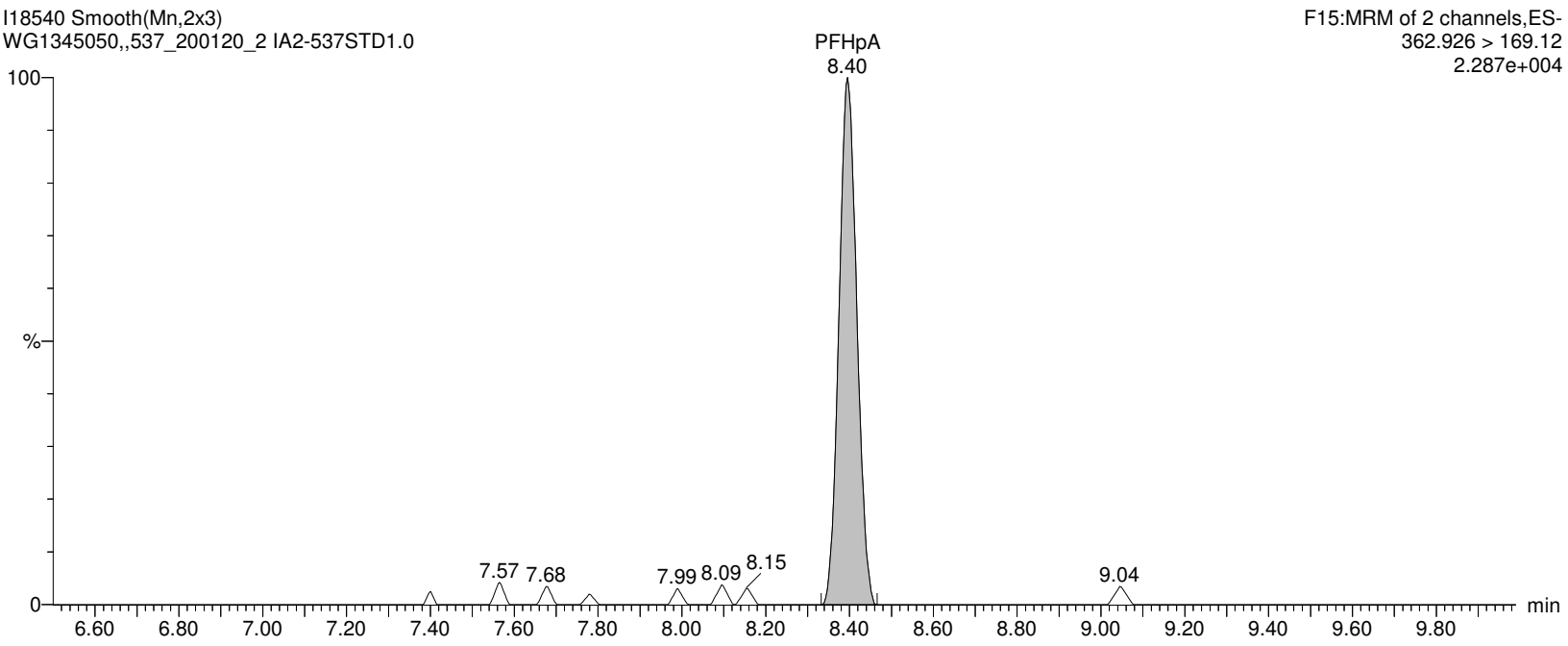
PFHpA





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User: LCMS01:JW
Vial: 1:B,6
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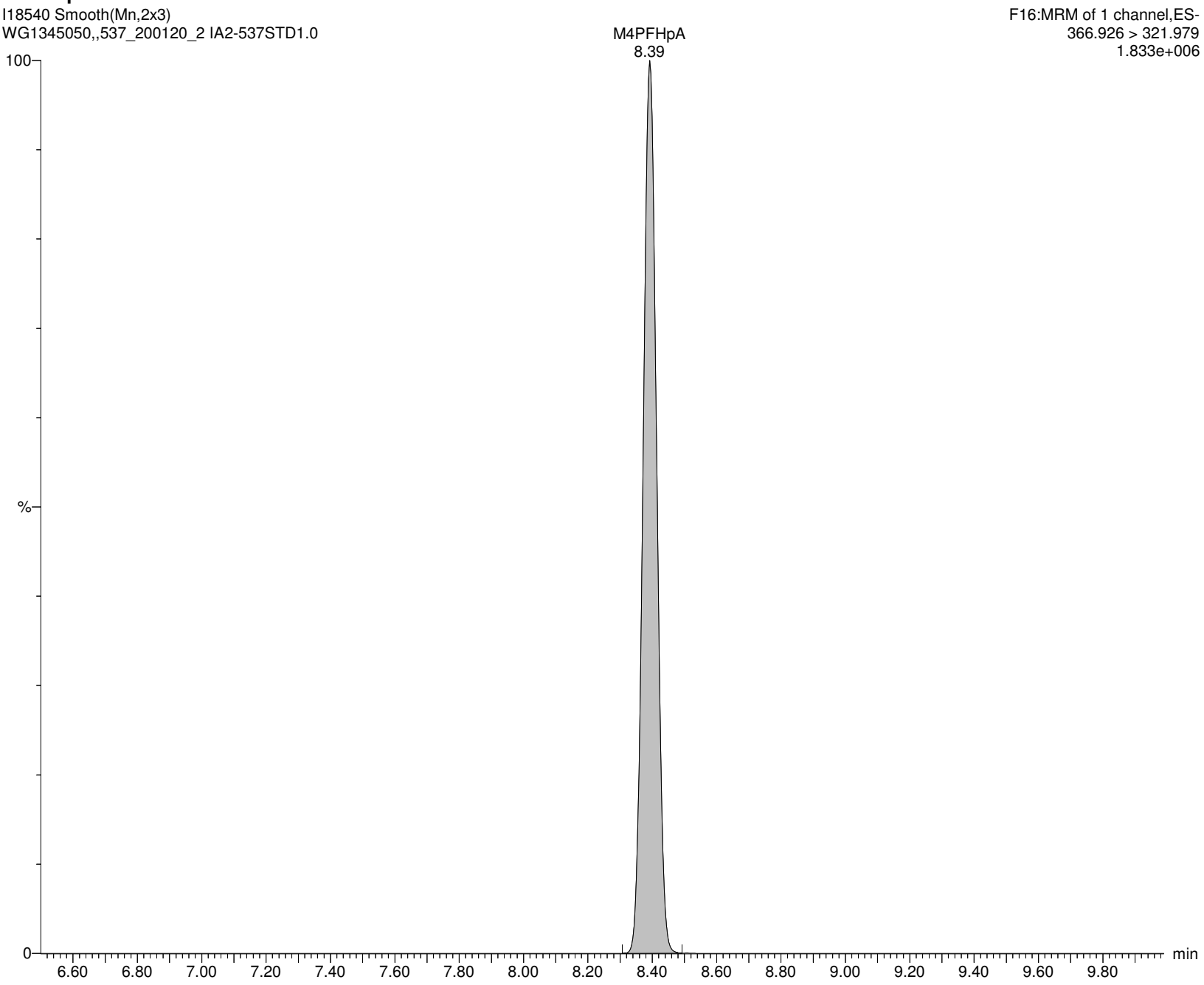

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:00 Eastern Standard Time

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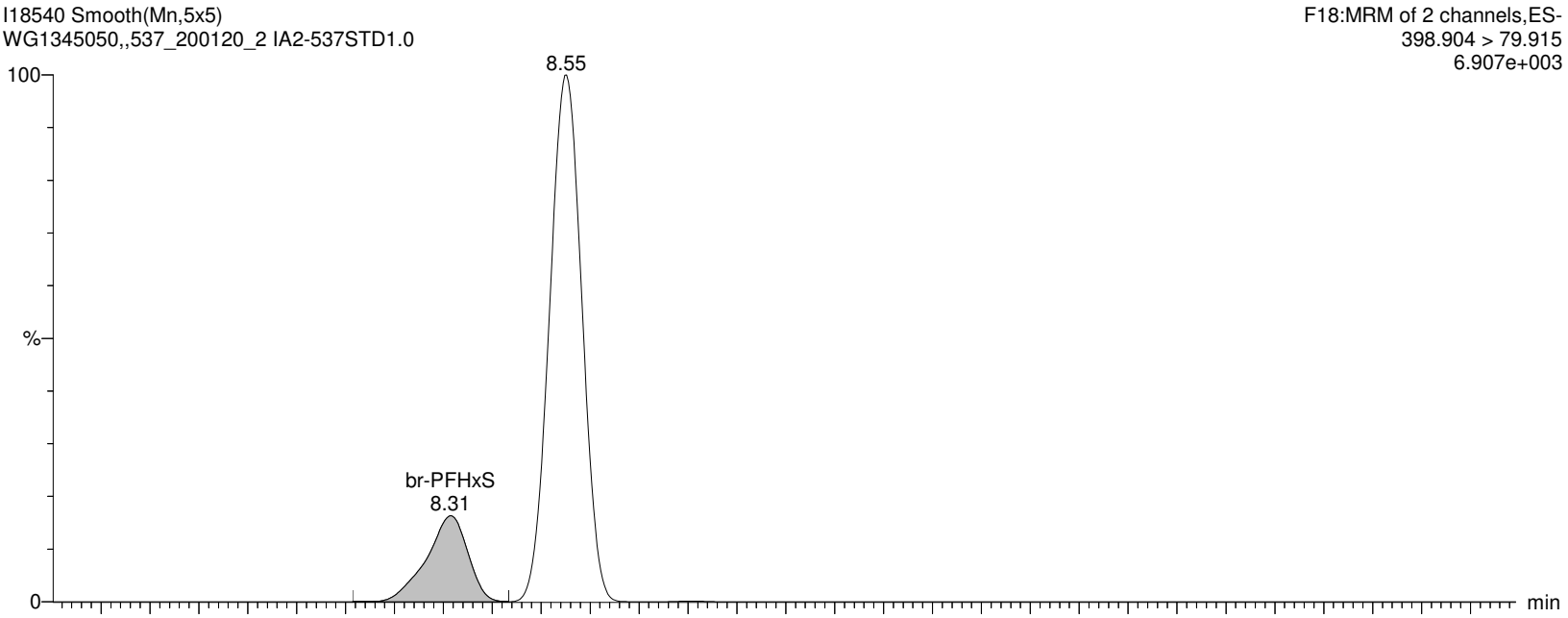

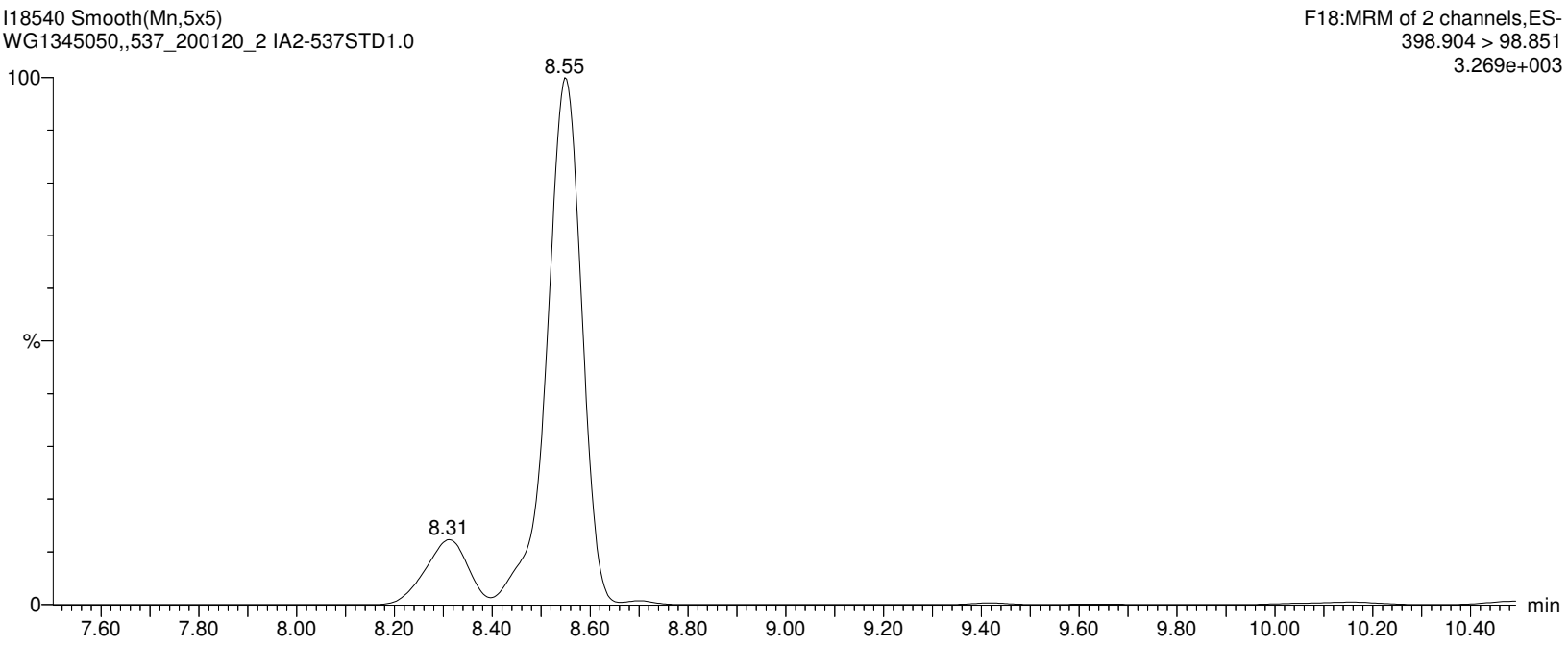

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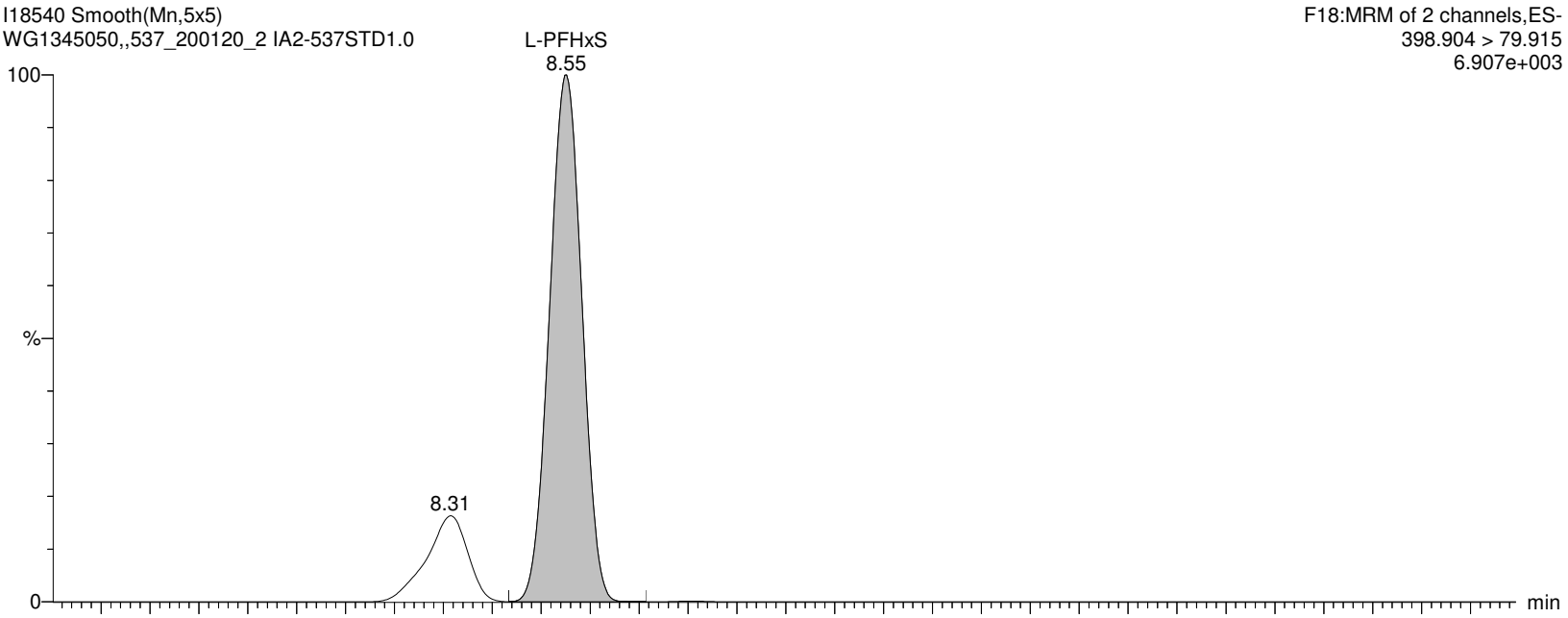

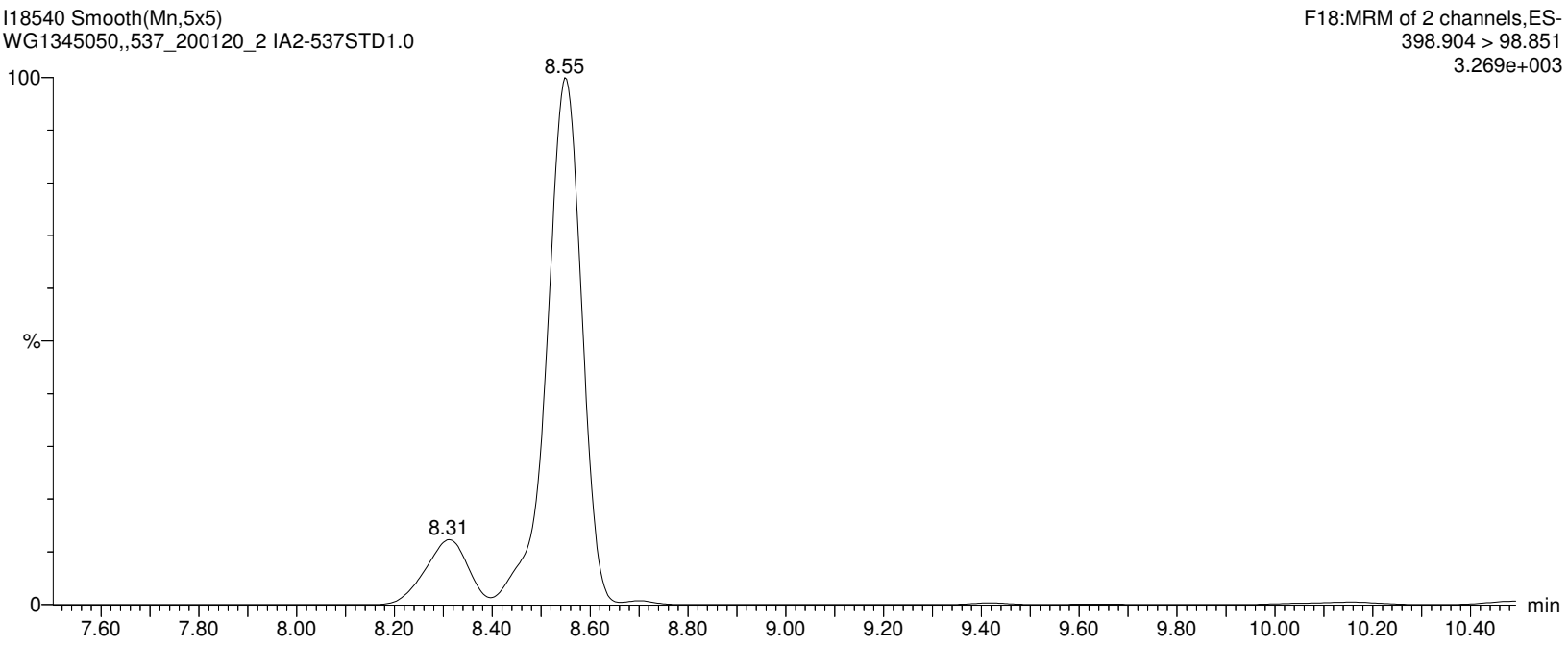

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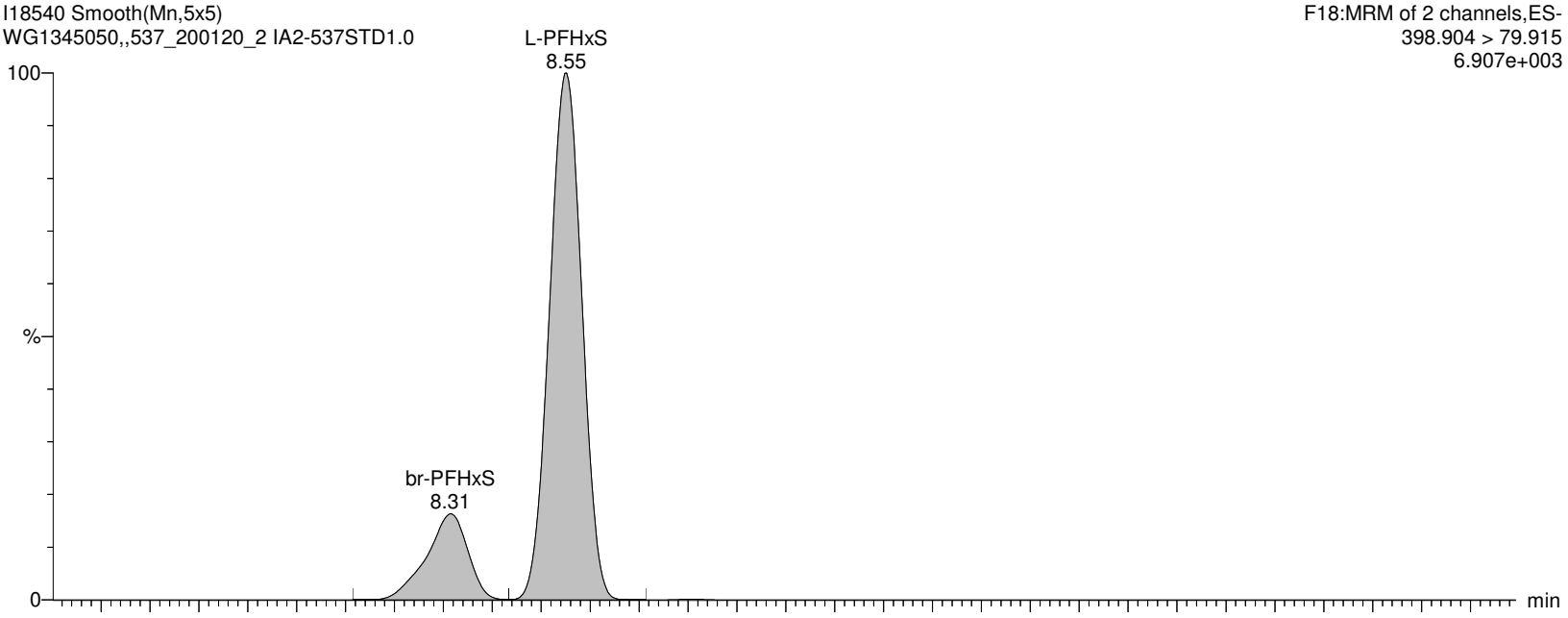

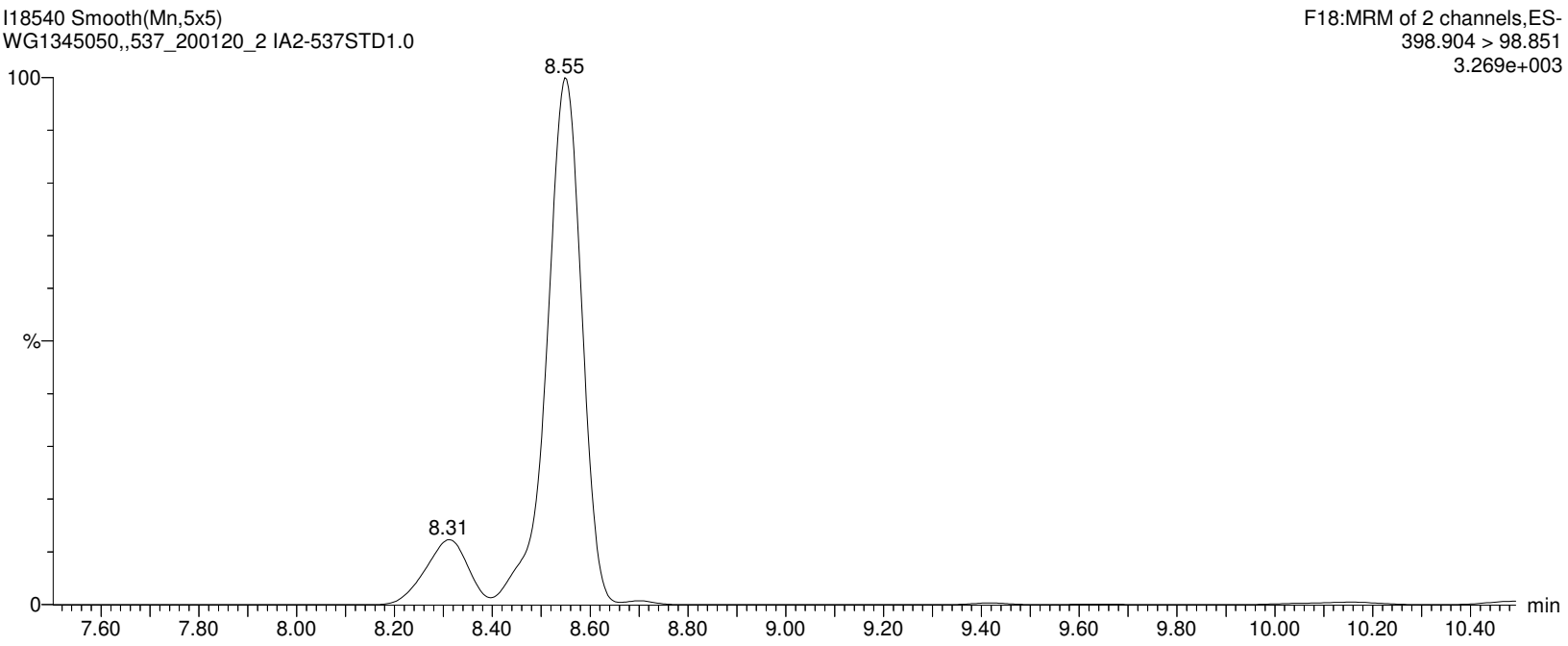

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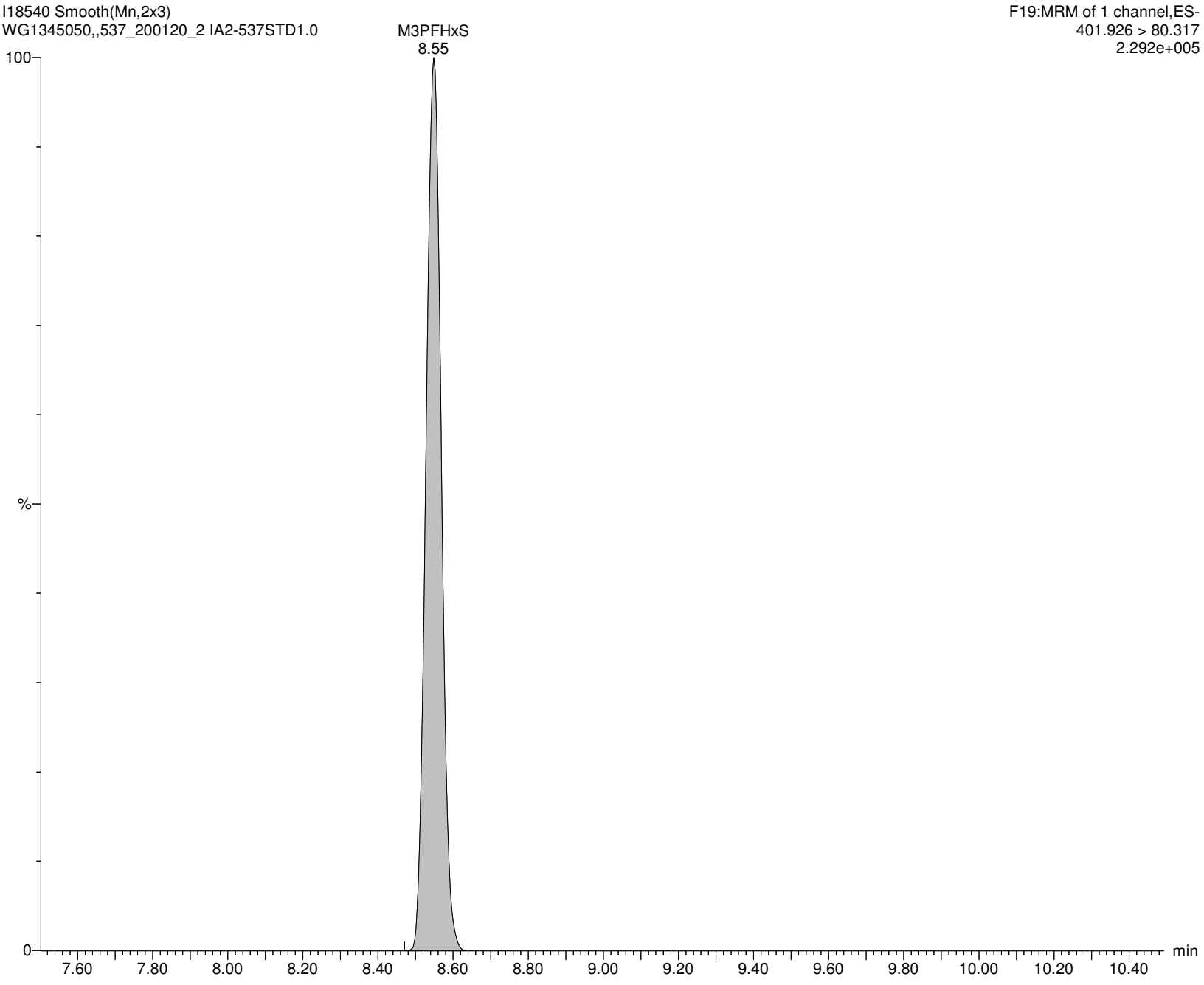

all concentration units in (ng/mL)

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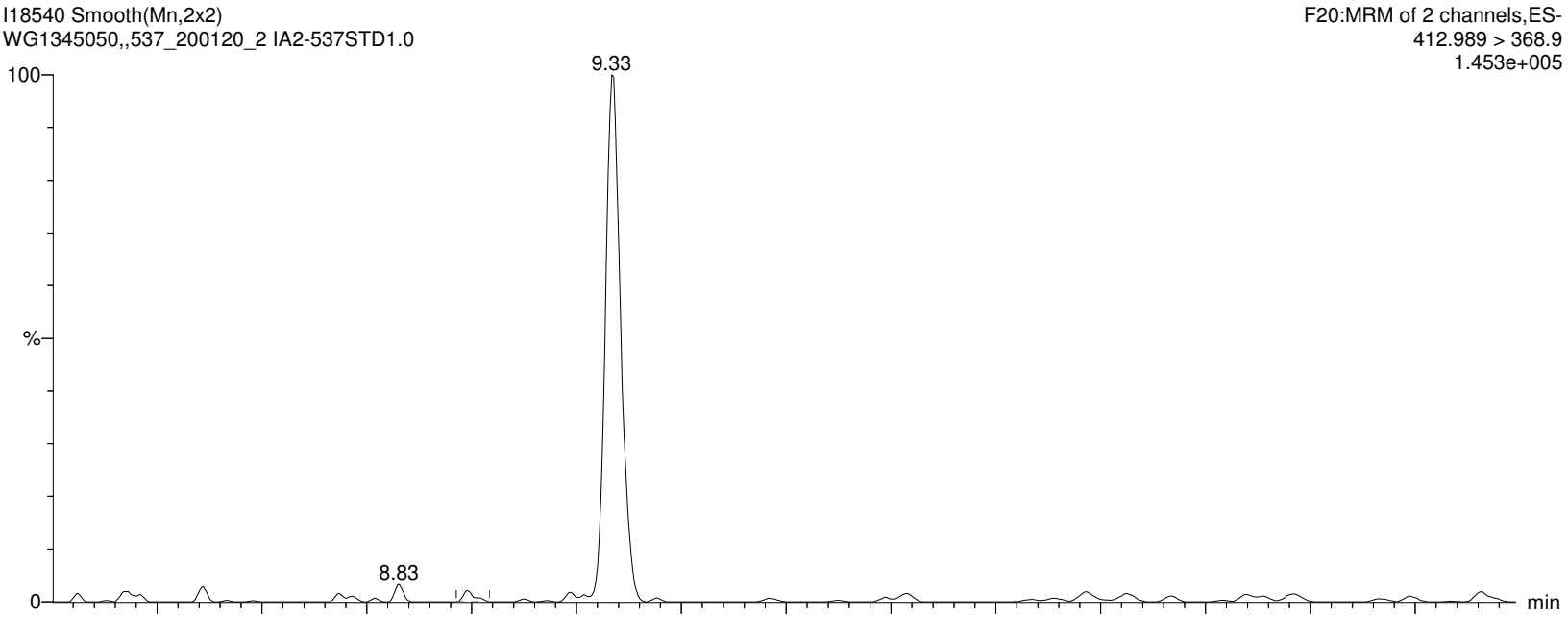

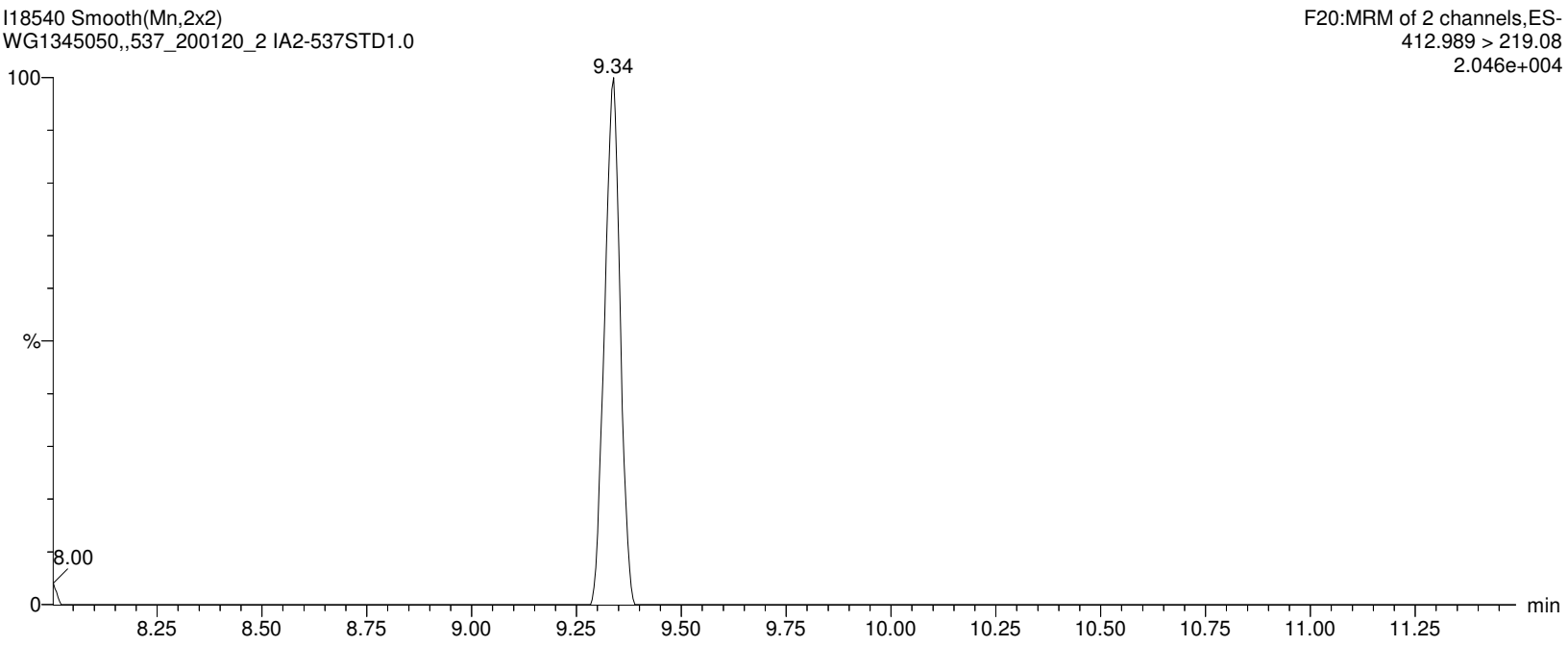

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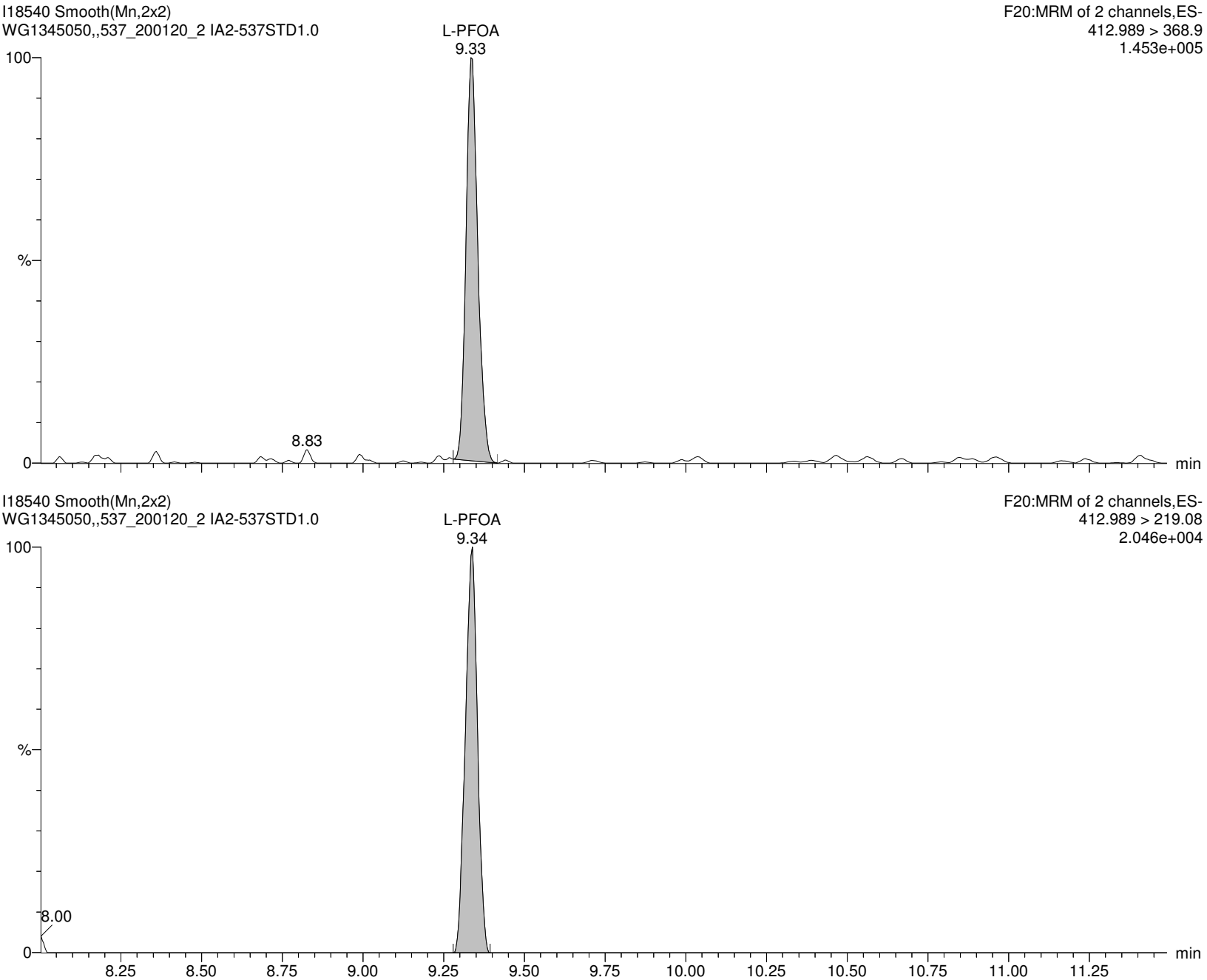

all concentration units in (ng/mL)

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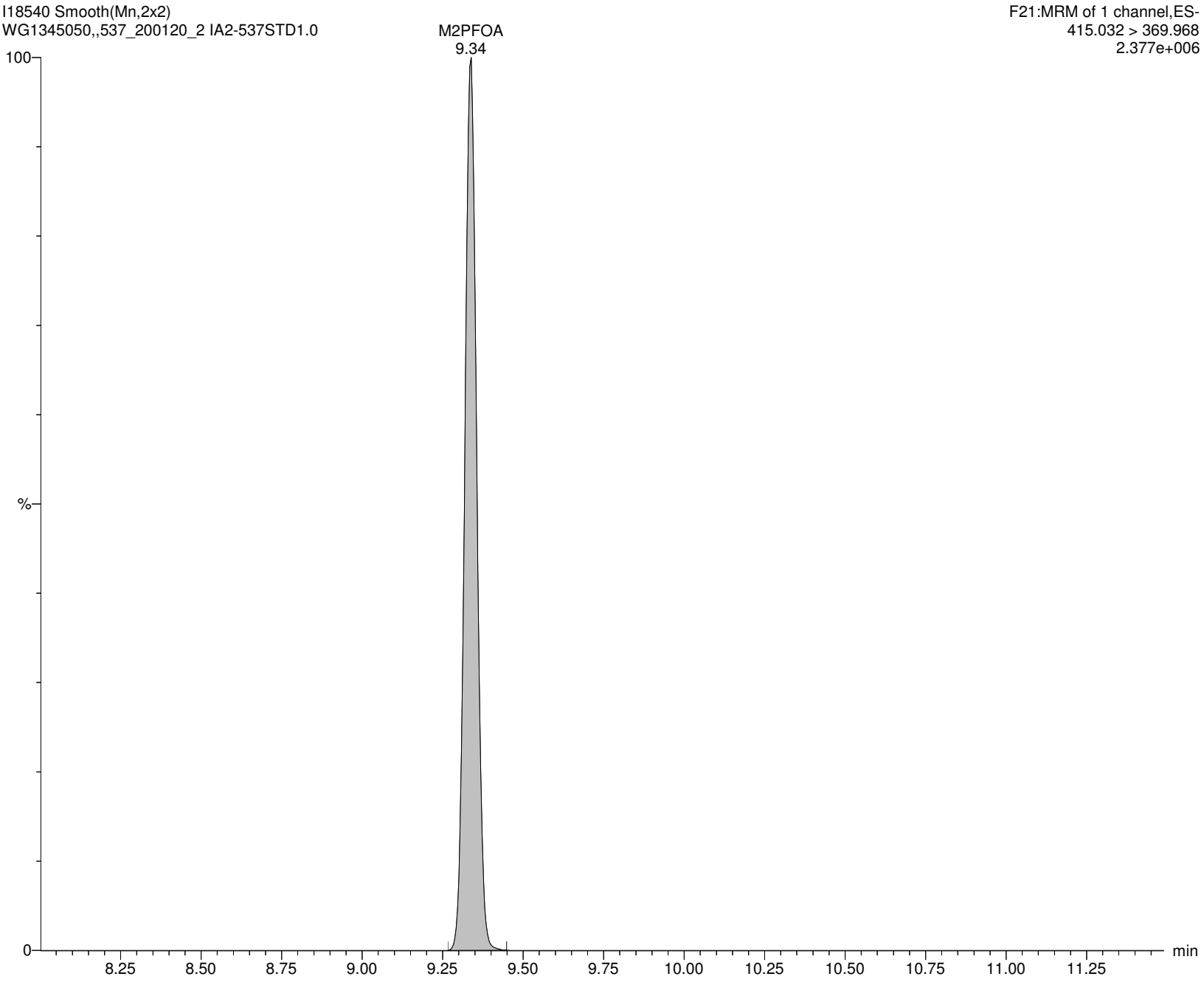

all concentration units in (ng/mL)

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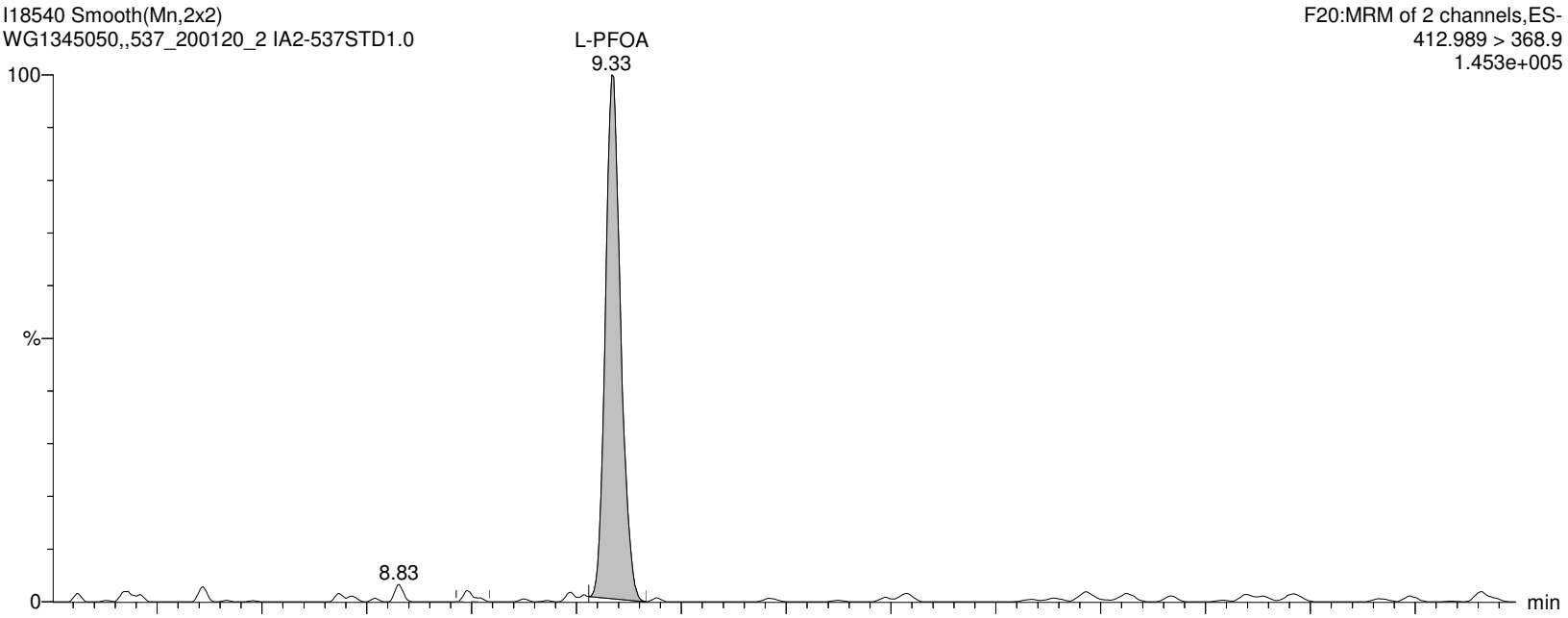

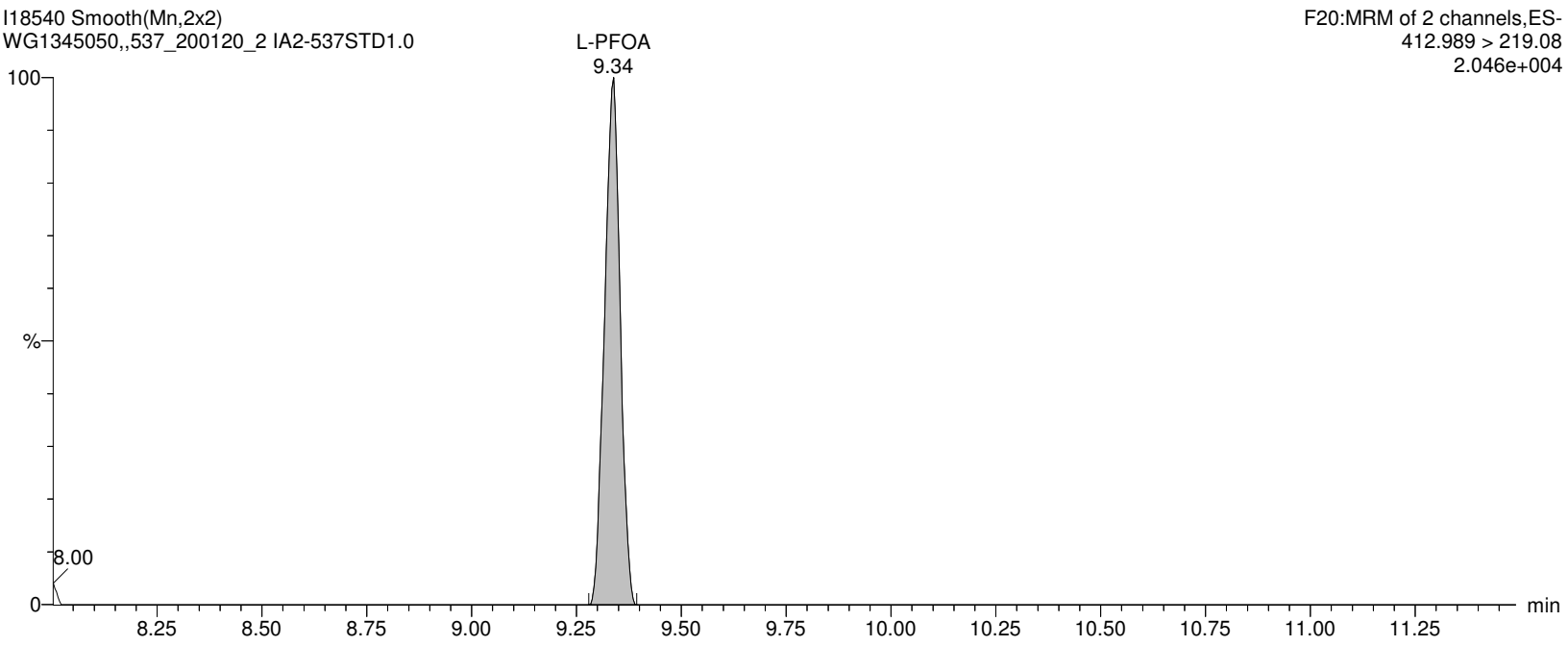

all concentration units in (ng/mL)

Alpha Analytical Inc.
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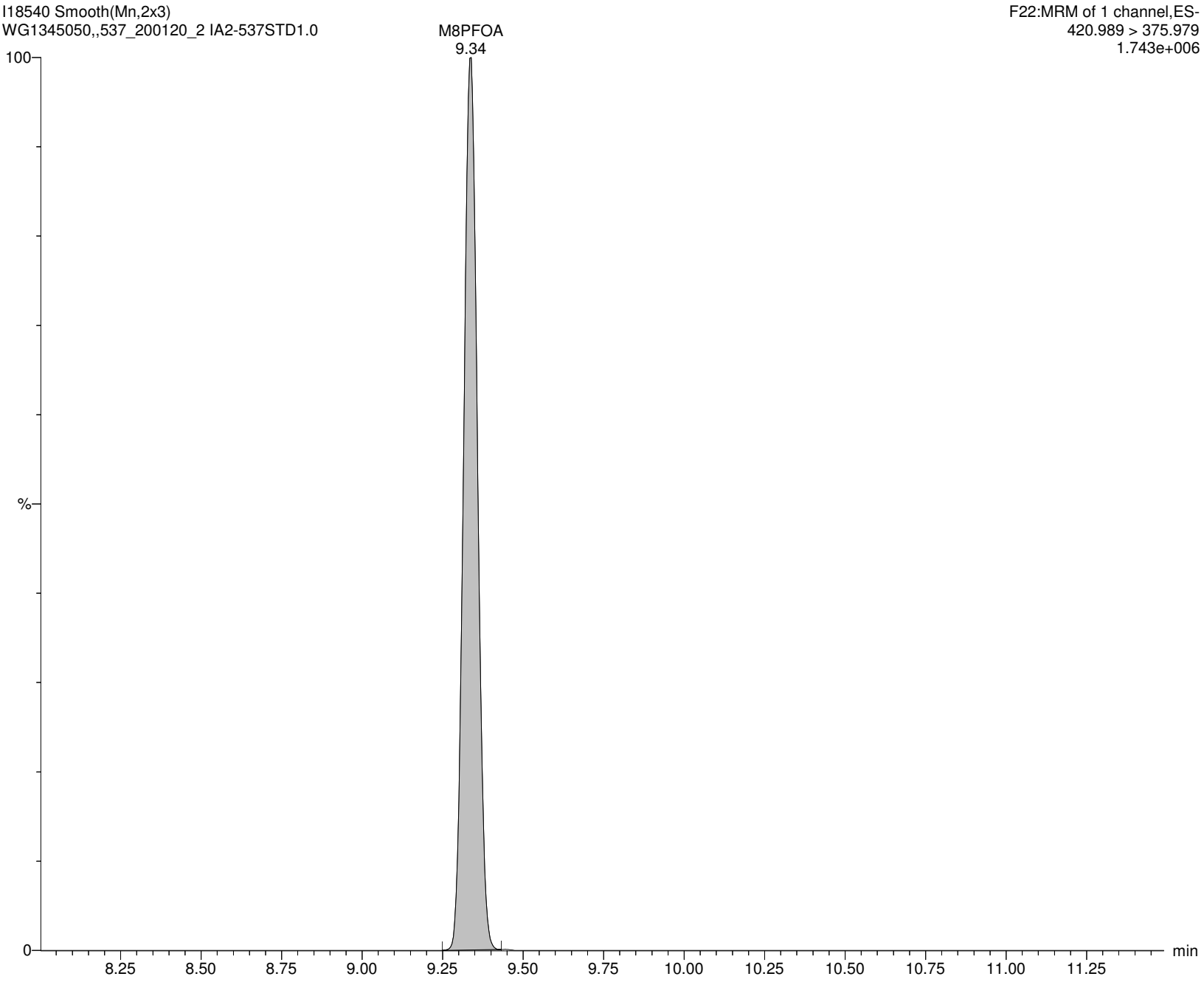

all concentration units in (ng/mL)

Alpha Analytical Inc.
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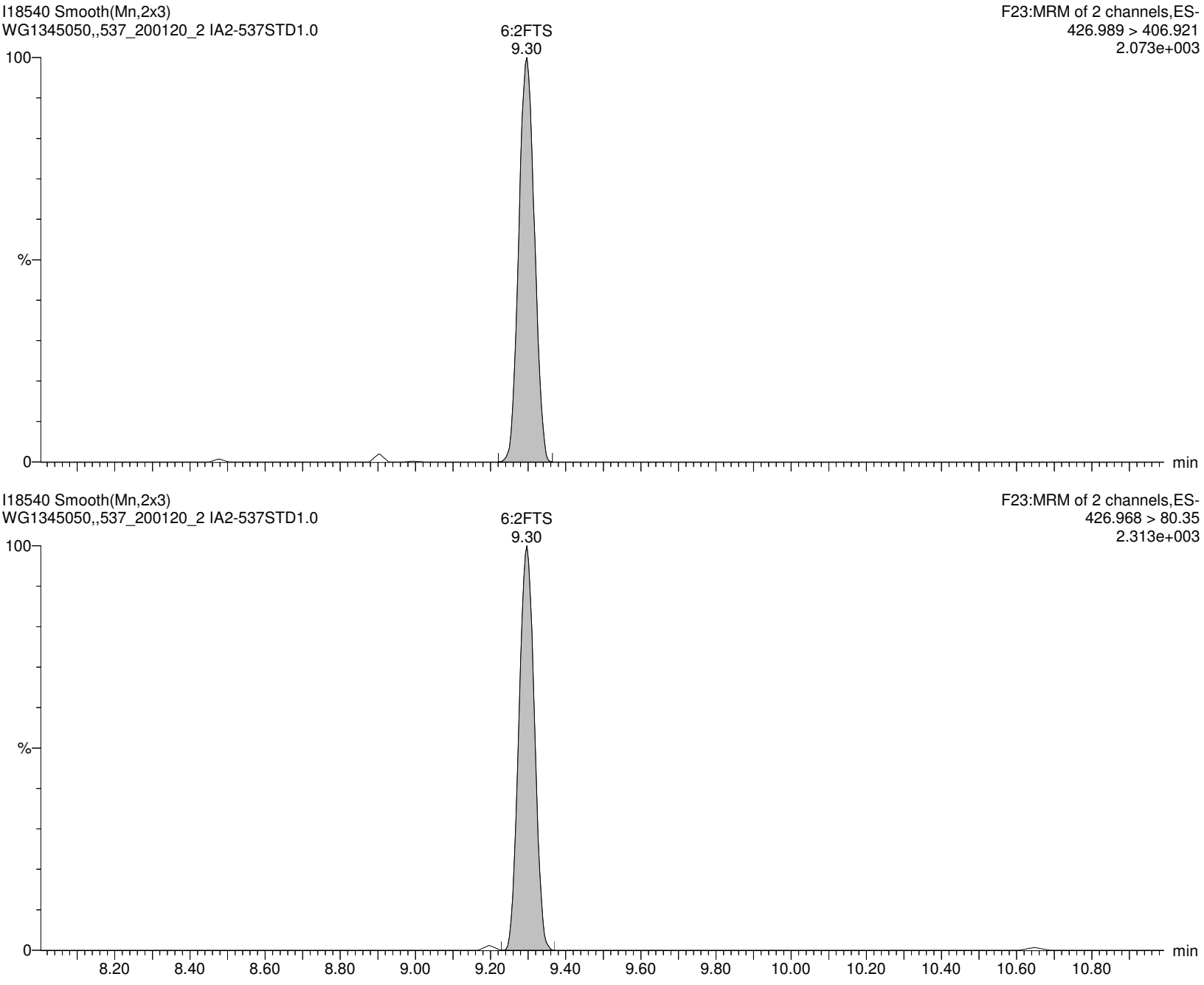

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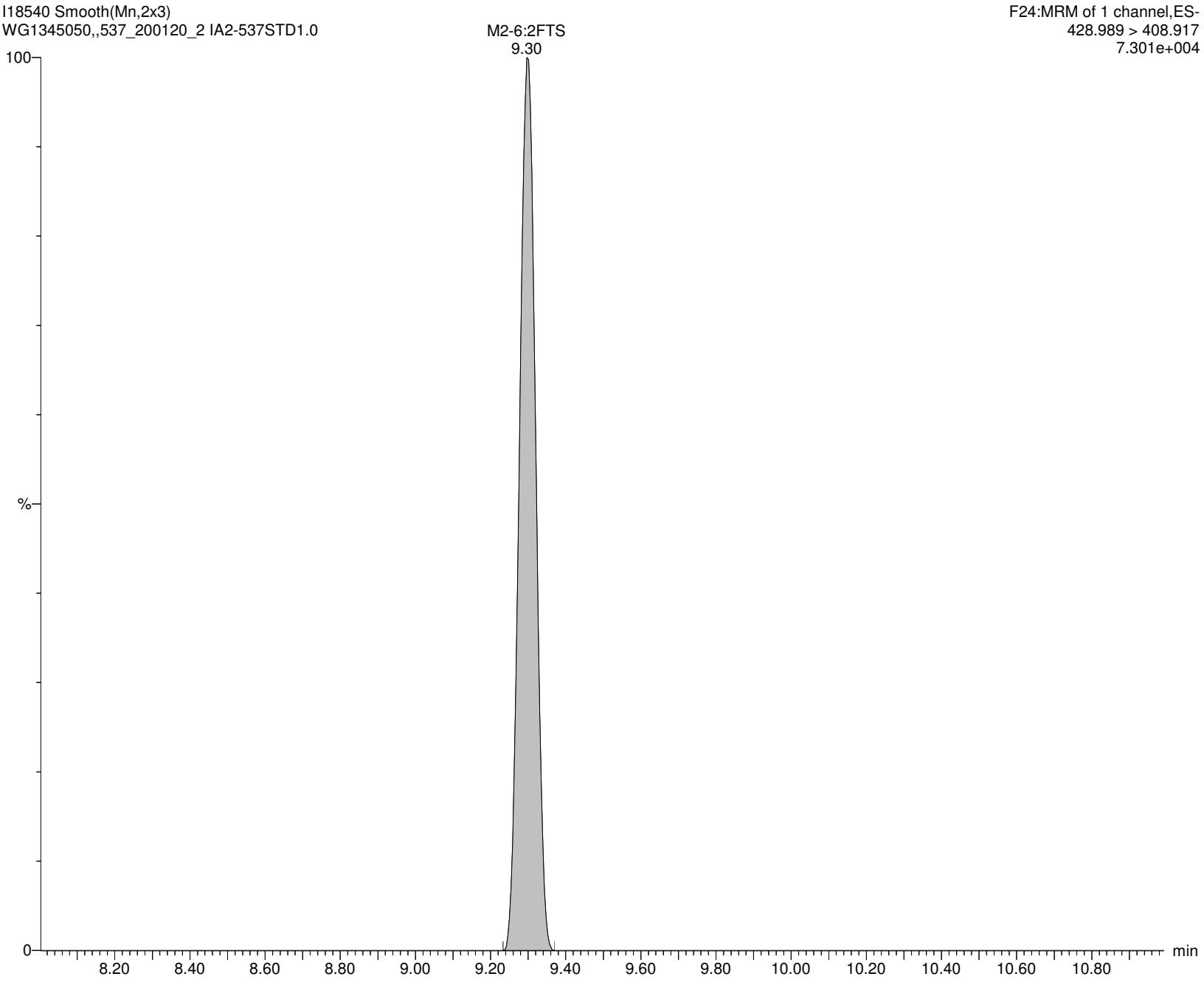

all concentration units in (ng/mL)

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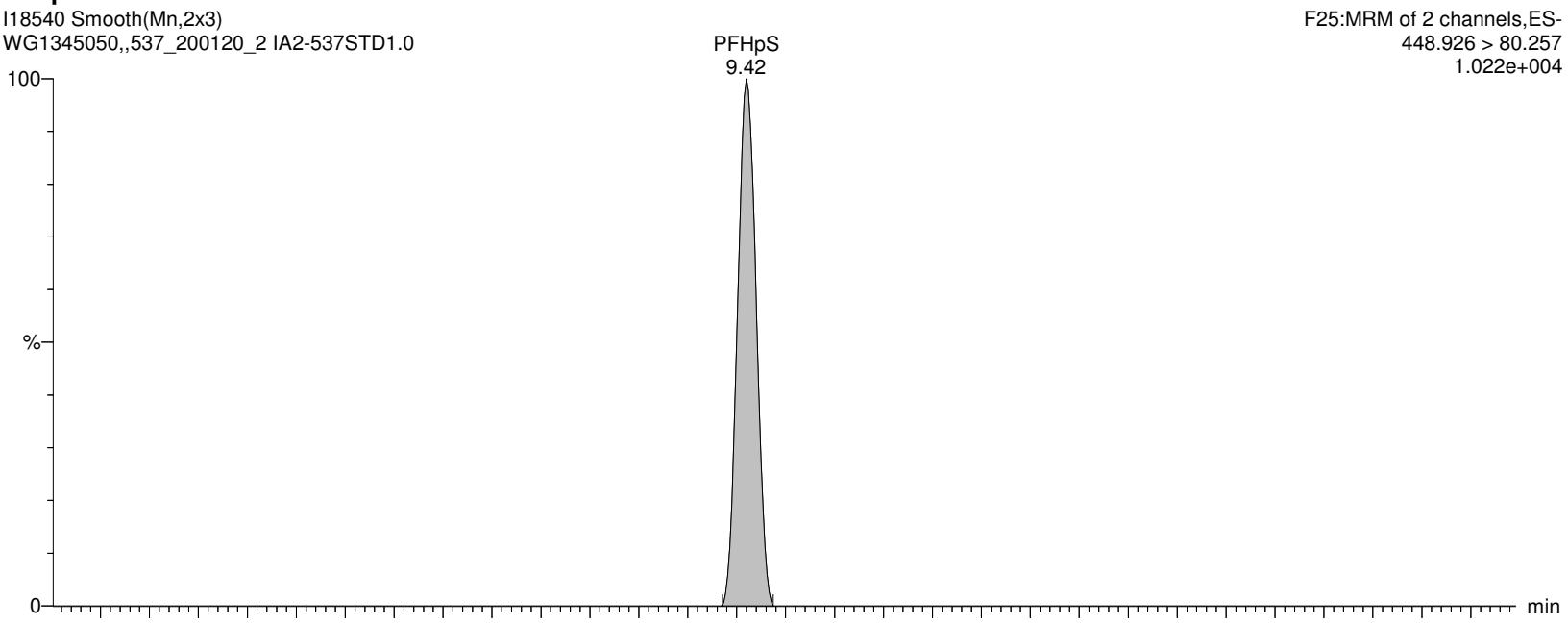

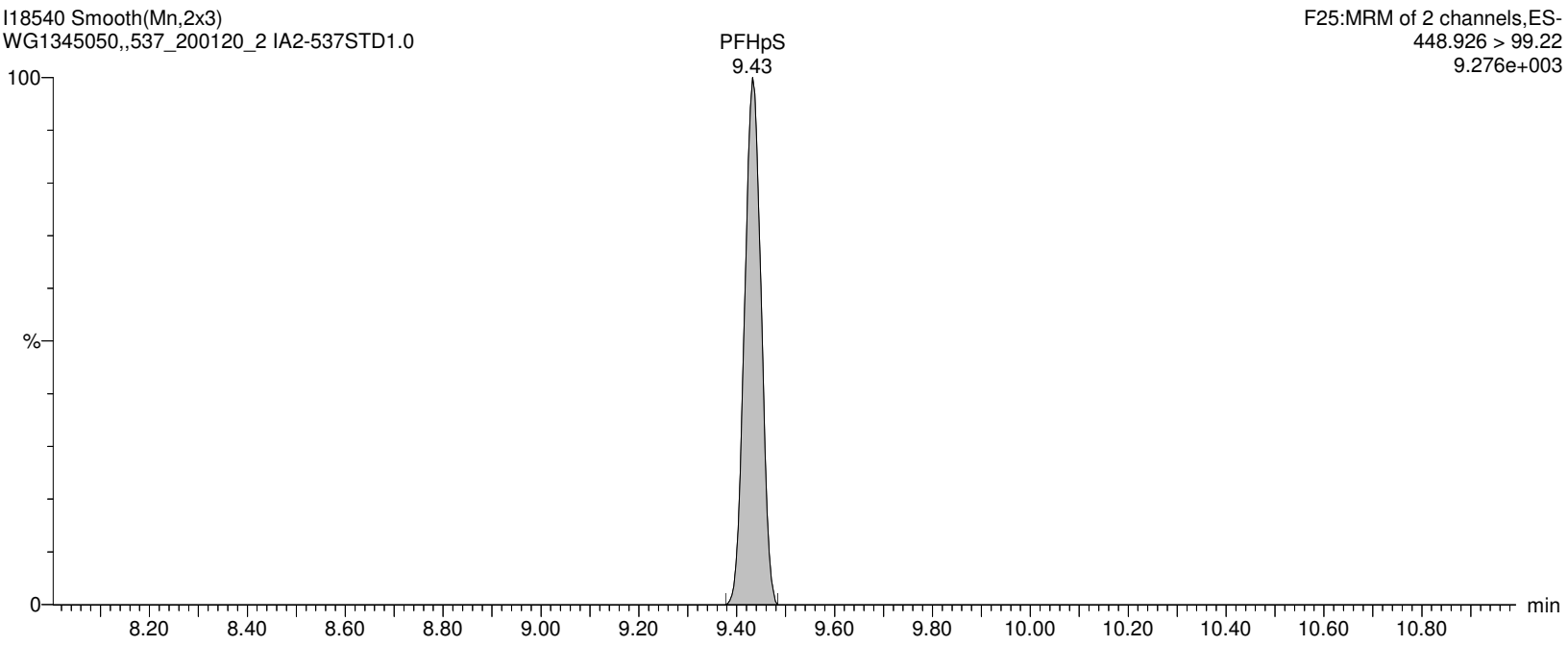

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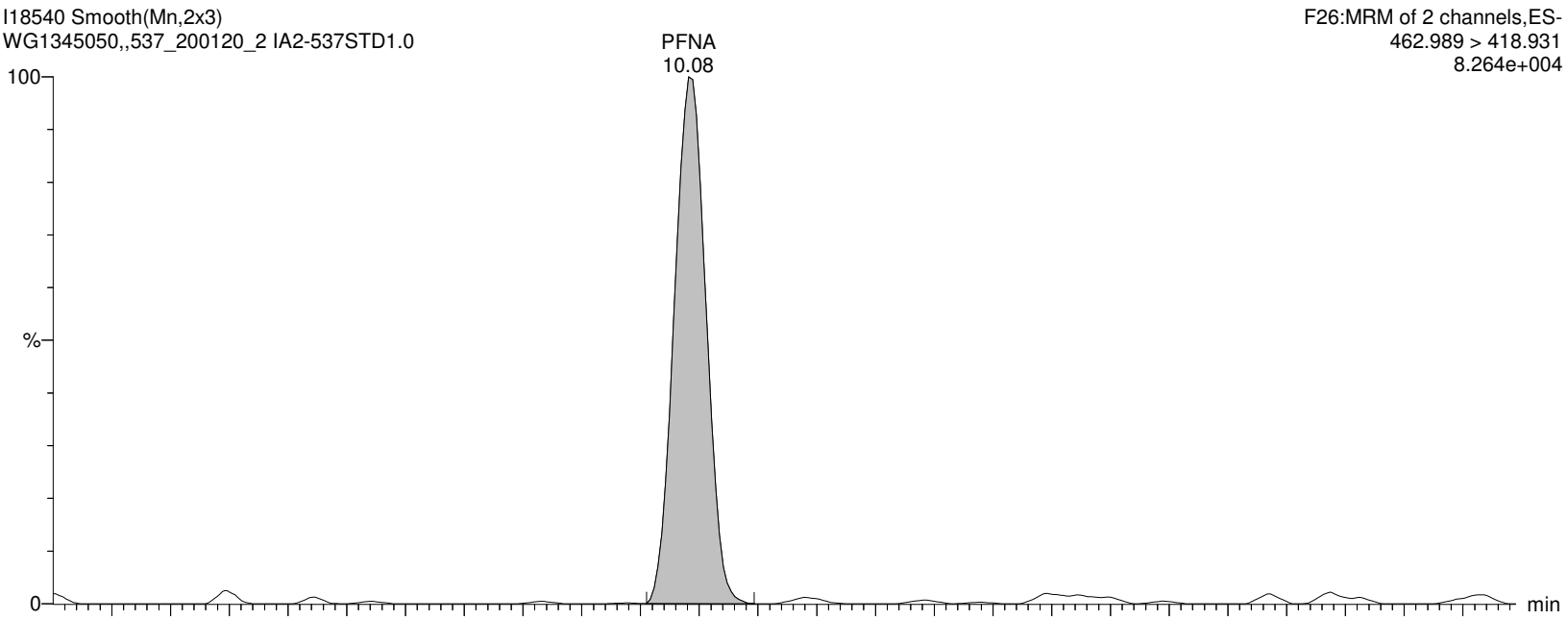

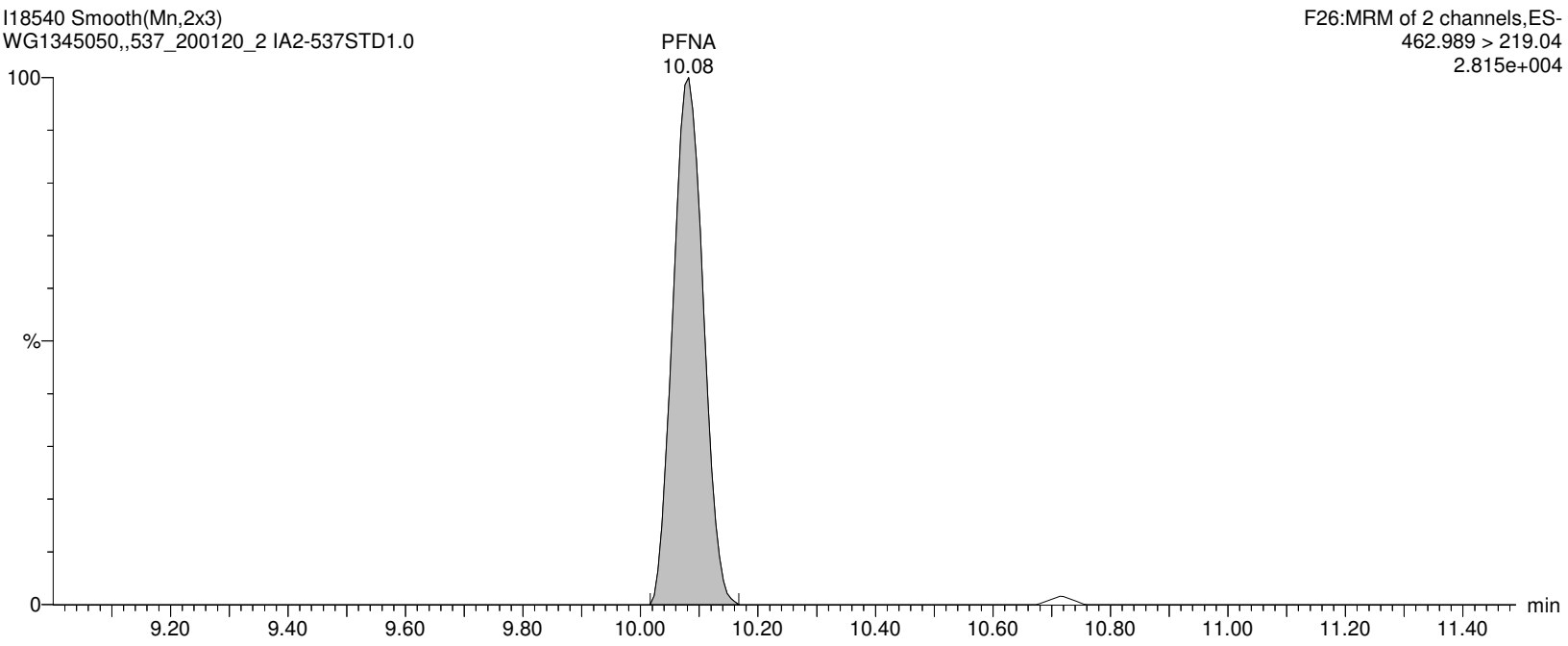

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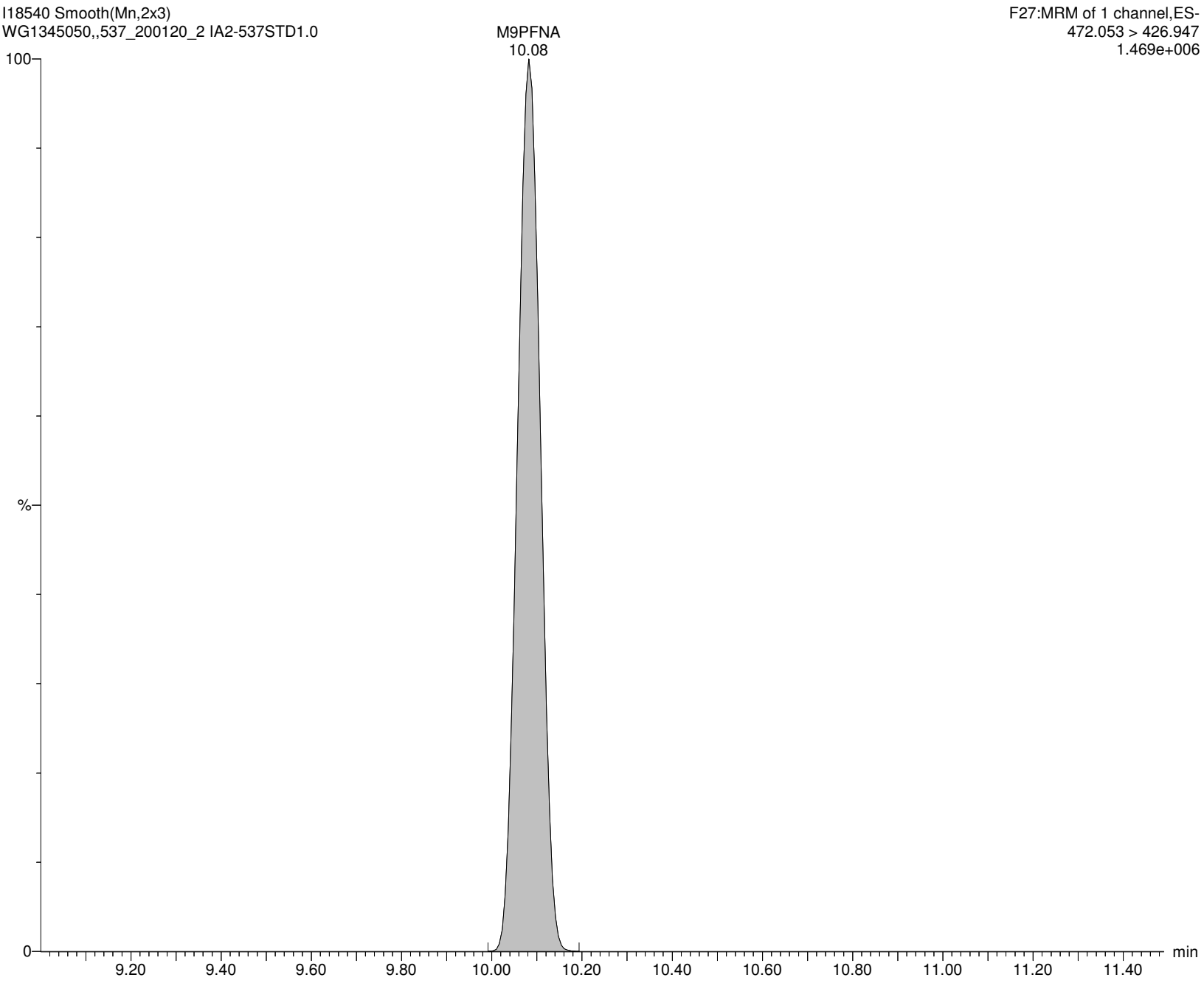

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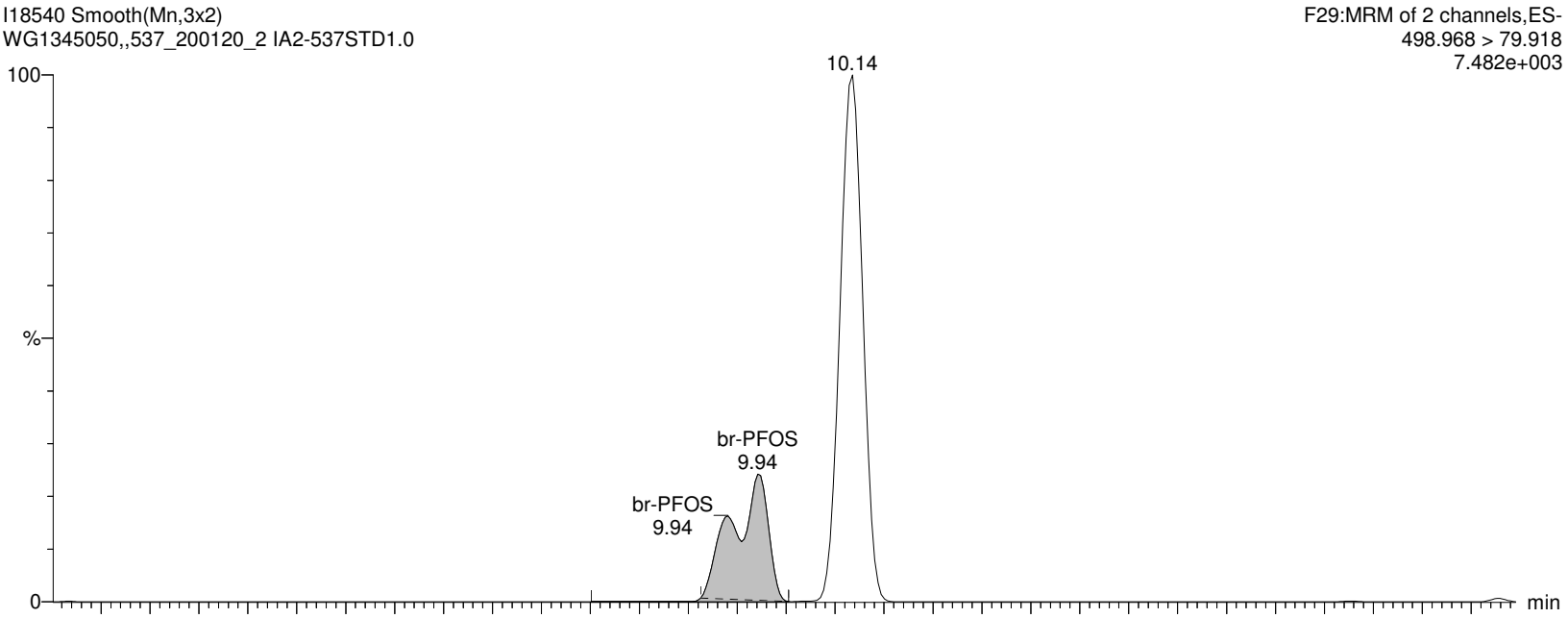

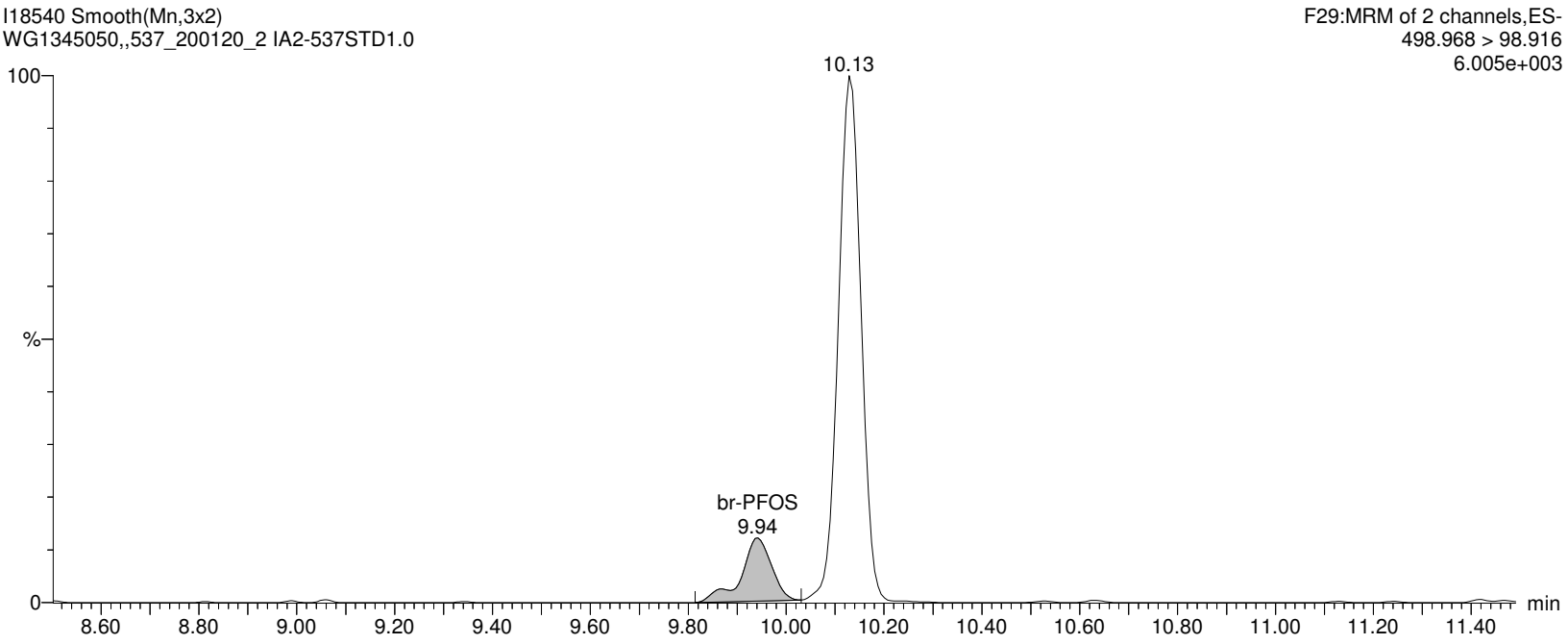

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICAL_A.qld
Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:00 Eastern Standard Time

Name: I18540
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Date: 27-Feb-2020
Time: 17:04:20
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Vial: 1:B,6
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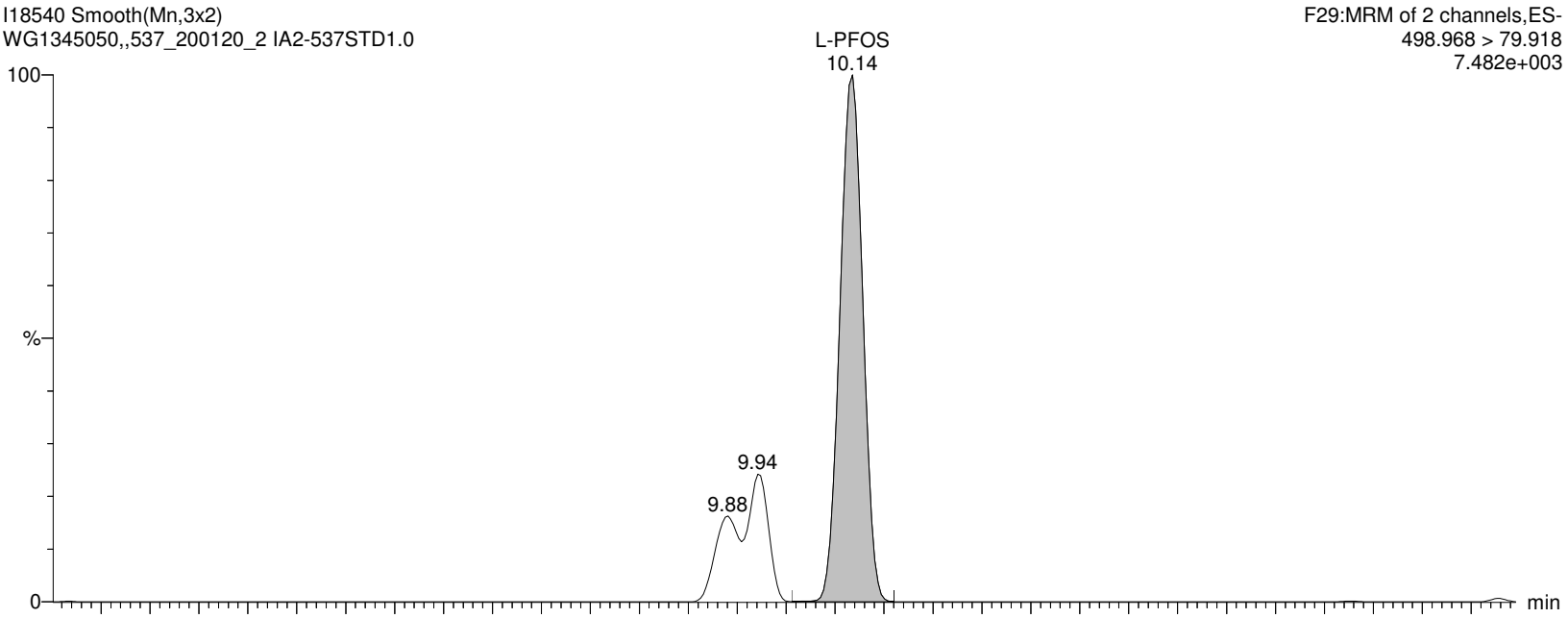

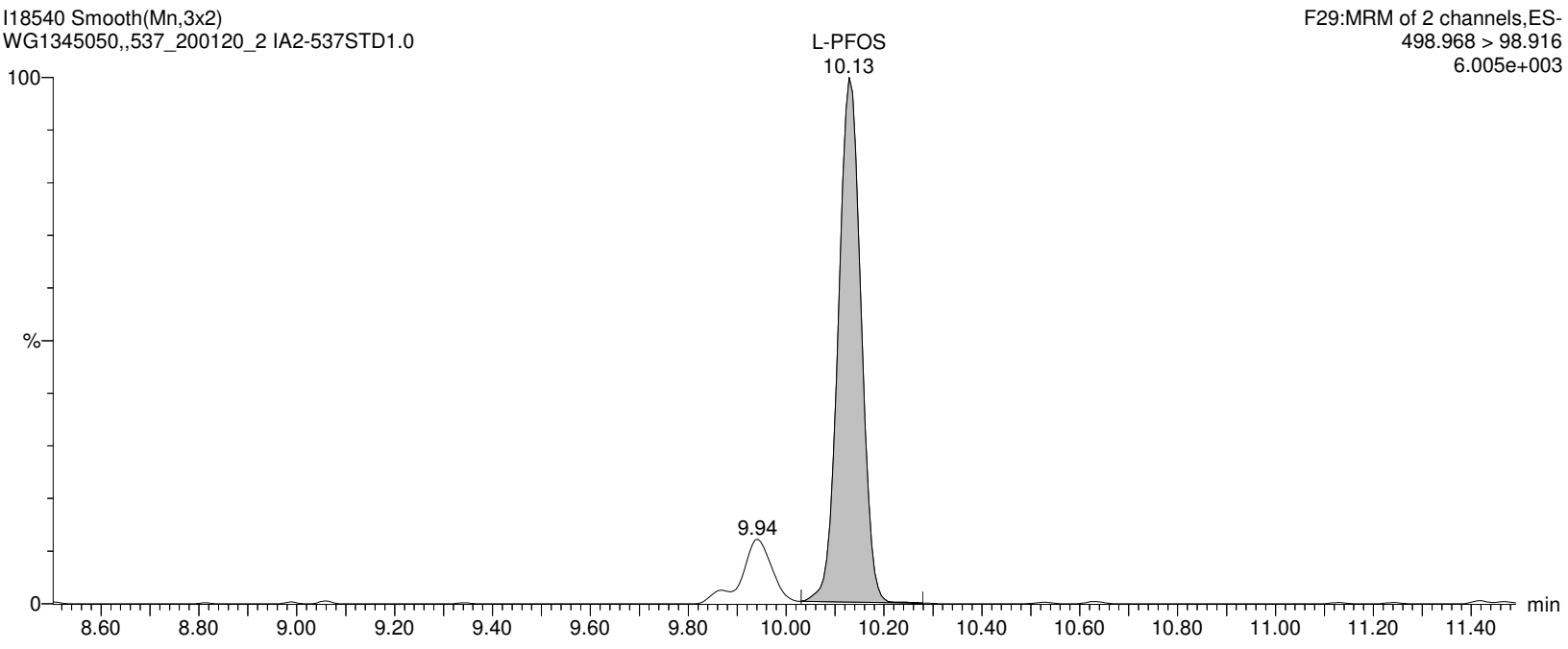

all concentration units in (ng/mL)

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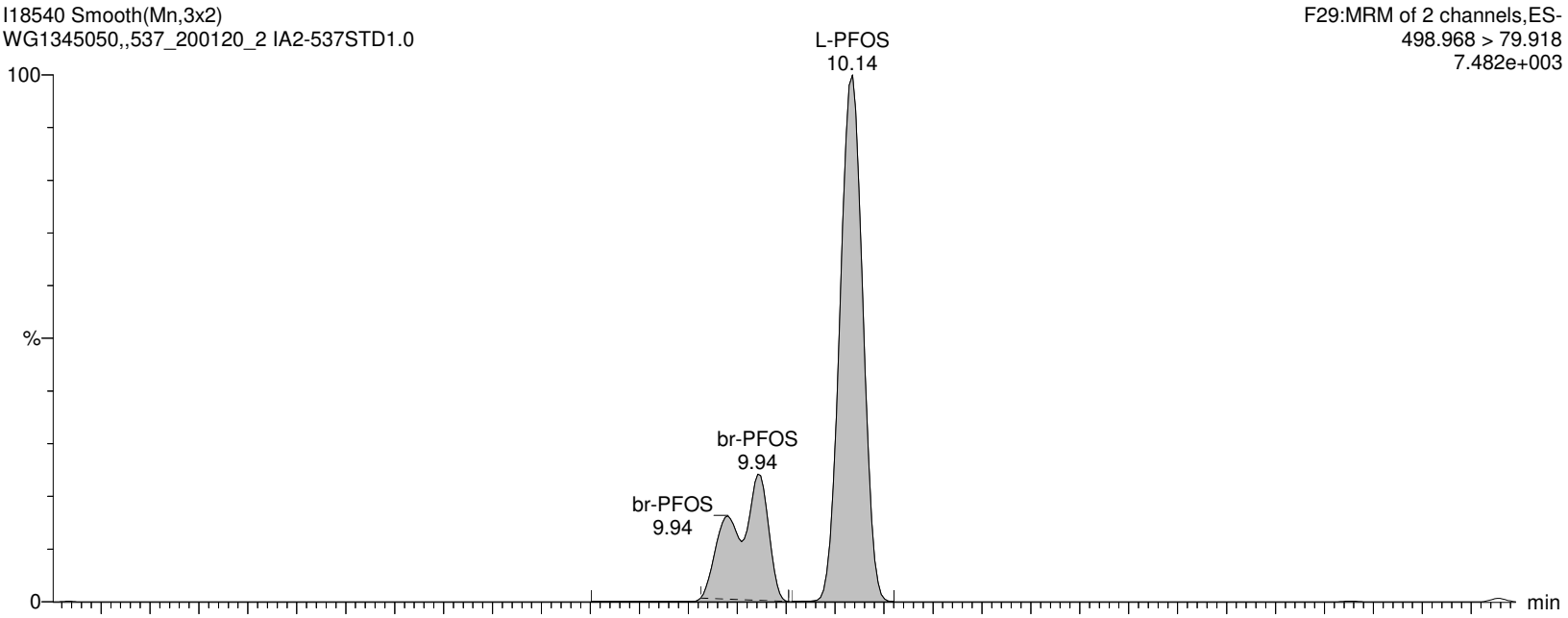

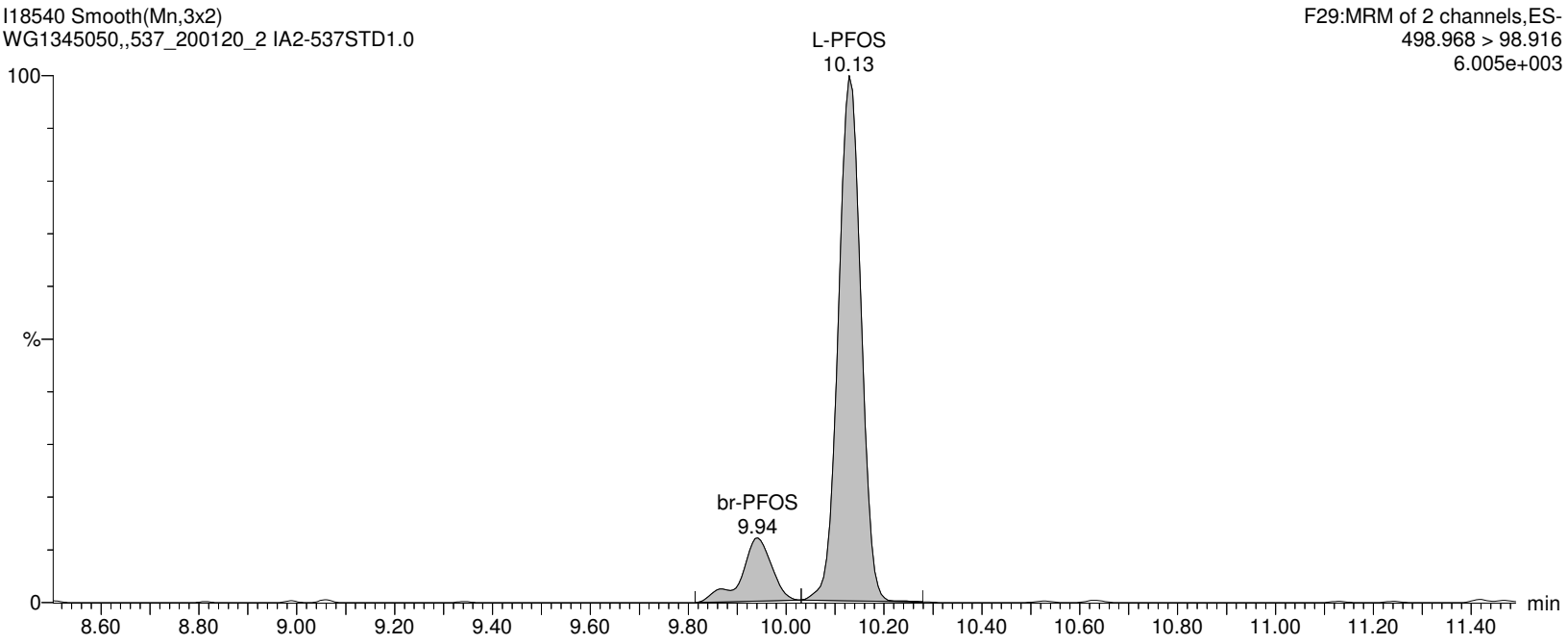

all concentration units in (ng/mL)

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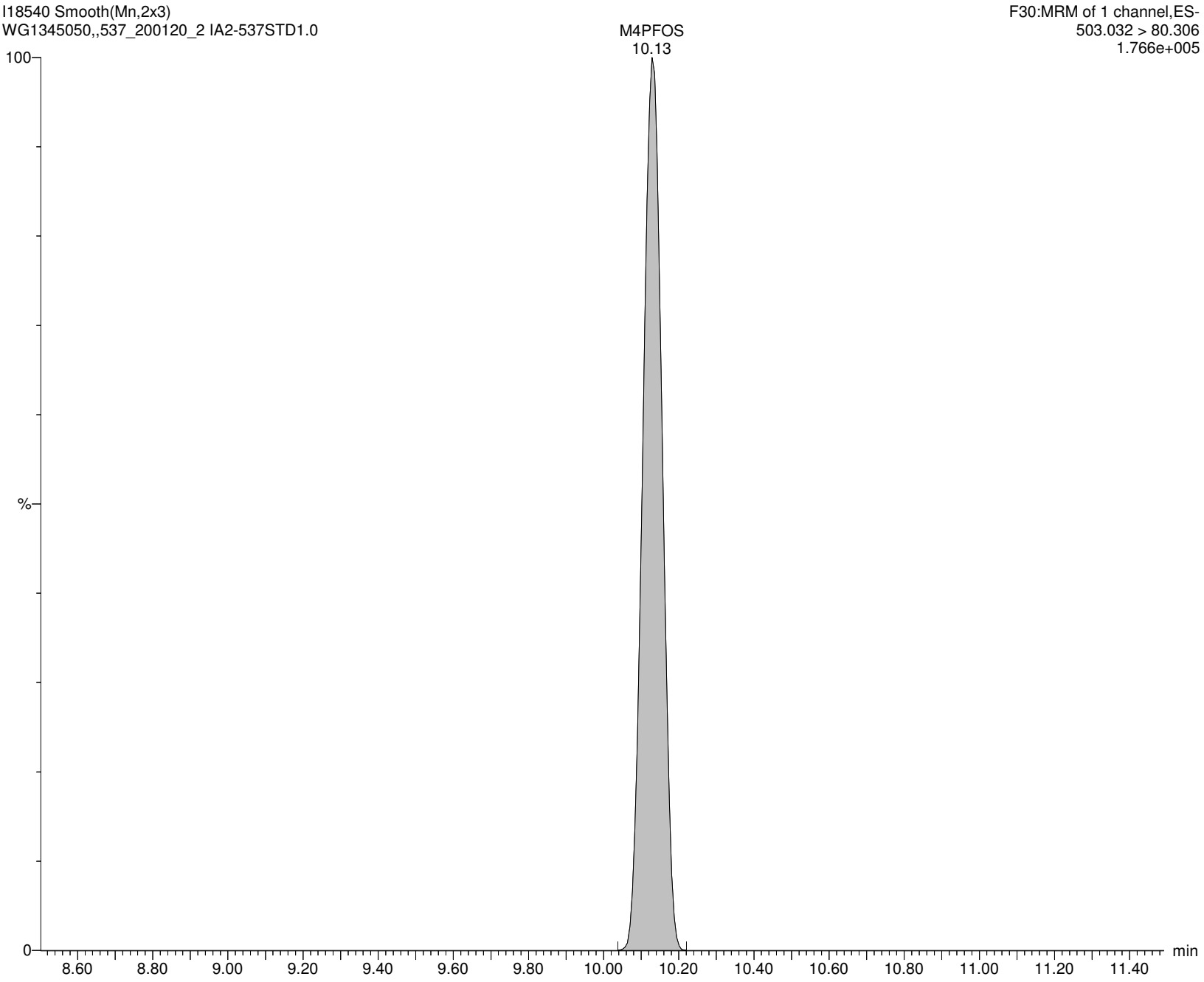

all concentration units in (ng/mL)

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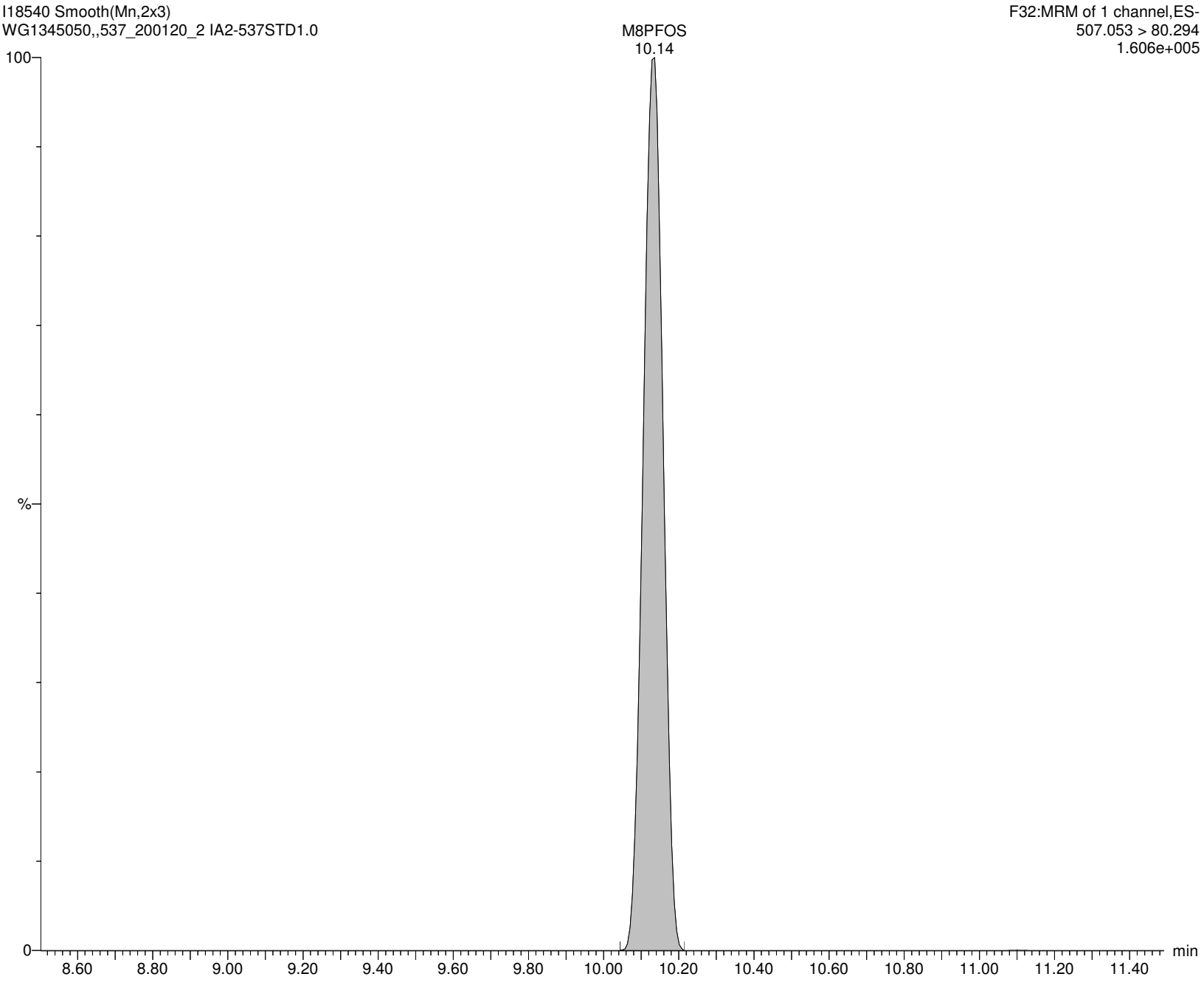

all concentration units in (ng/mL)

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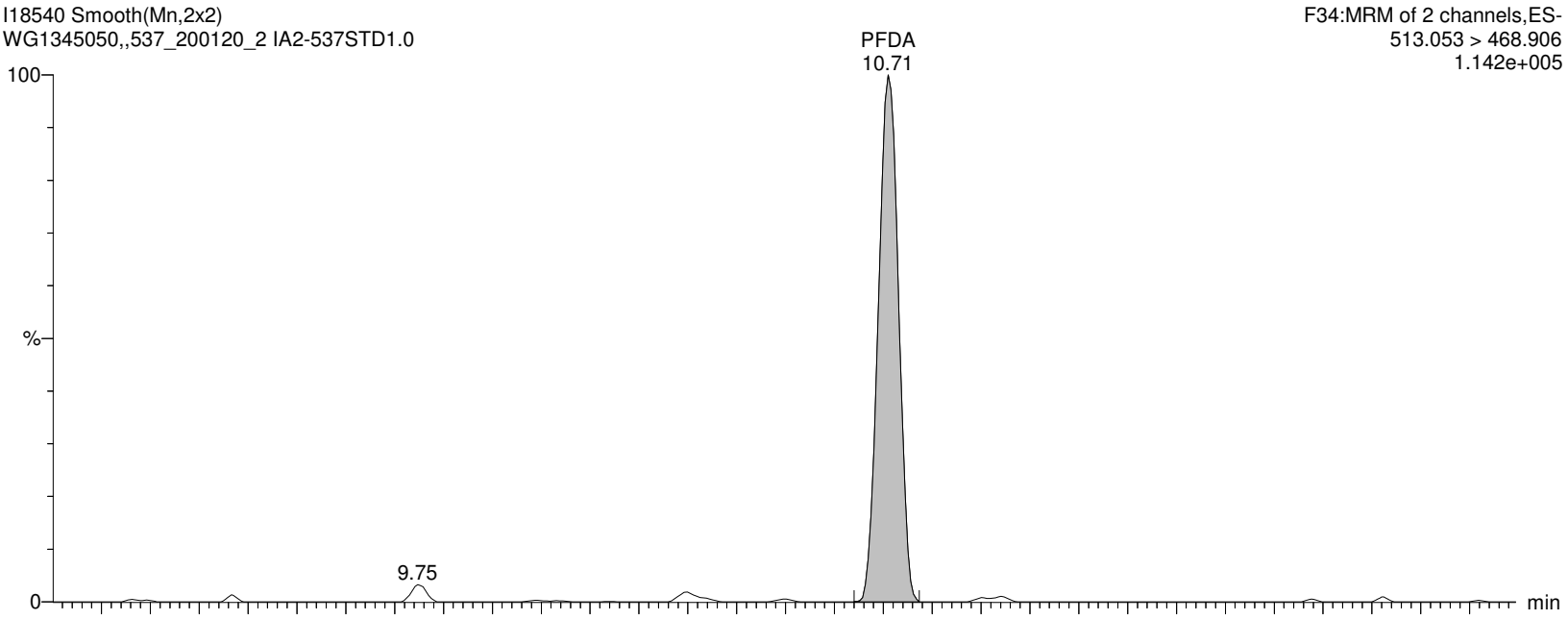

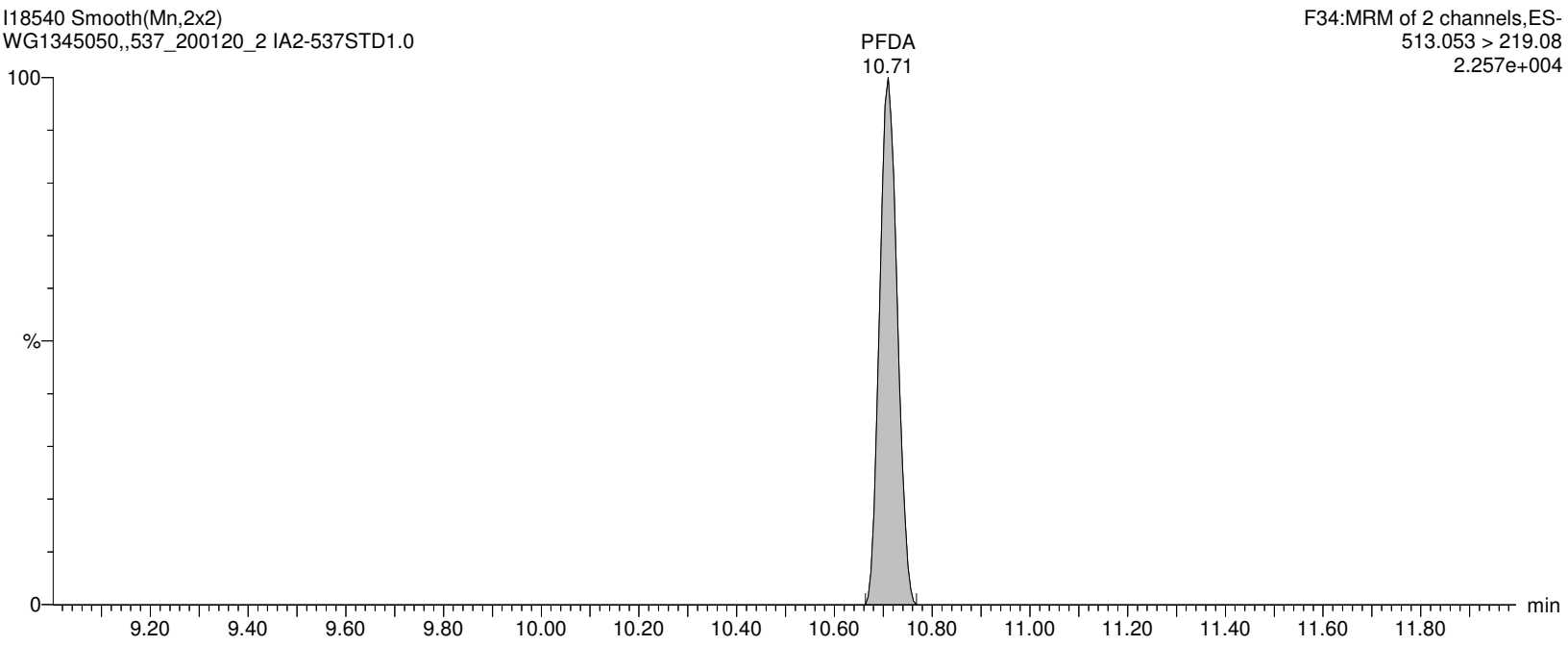

all concentration units in (ng/mL)

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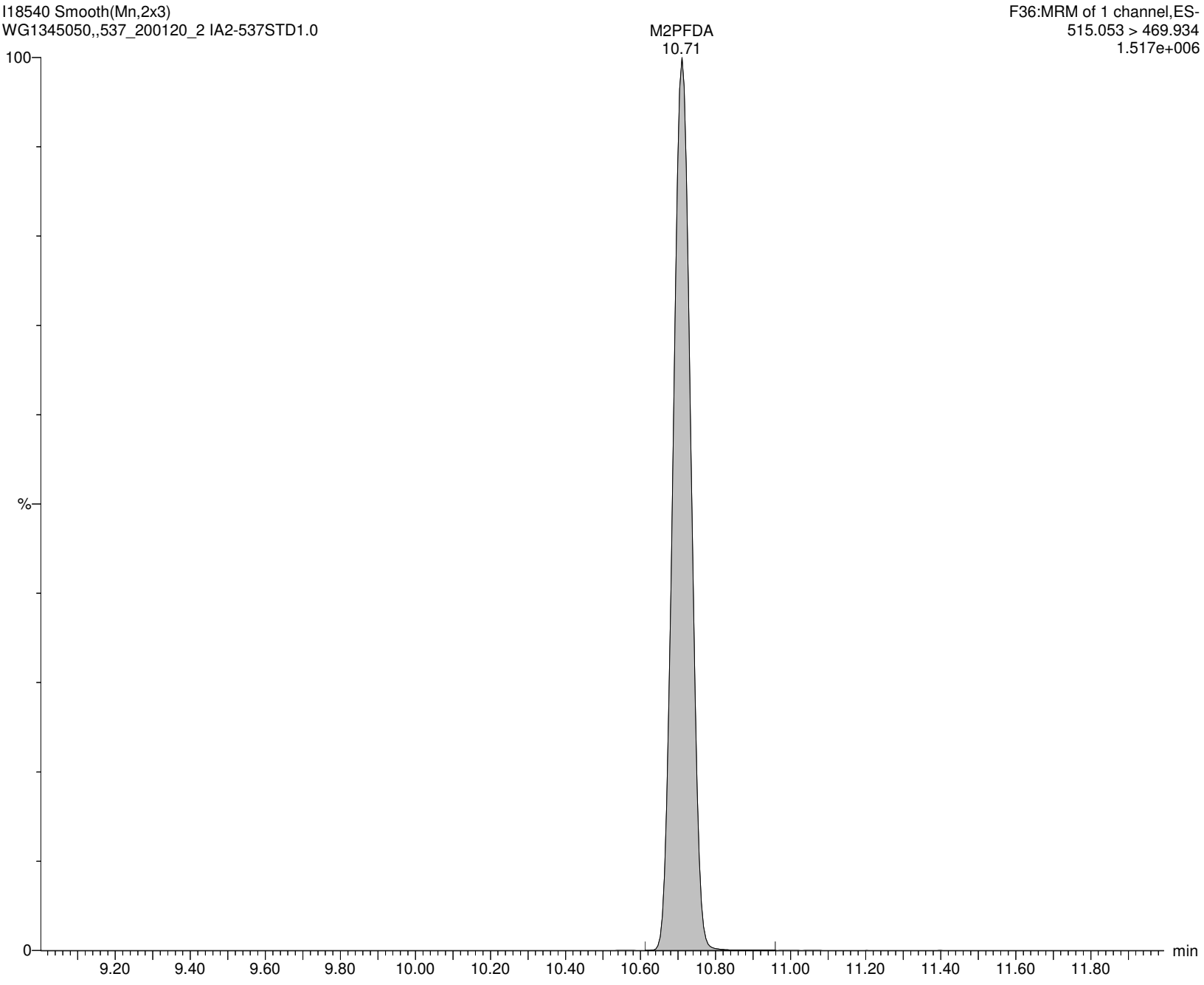

all concentration units in (ng/mL)

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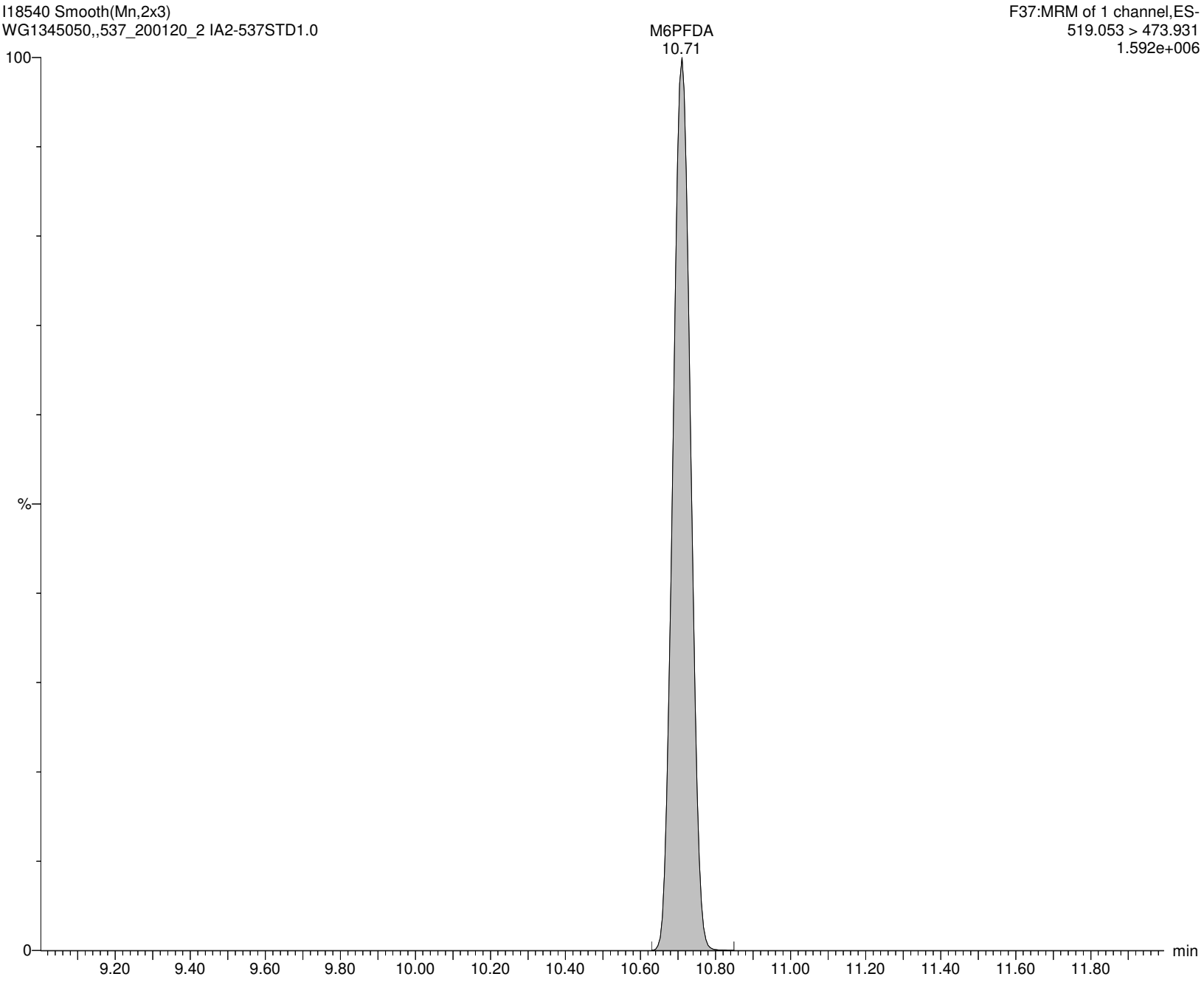

all concentration units in (ng/mL)

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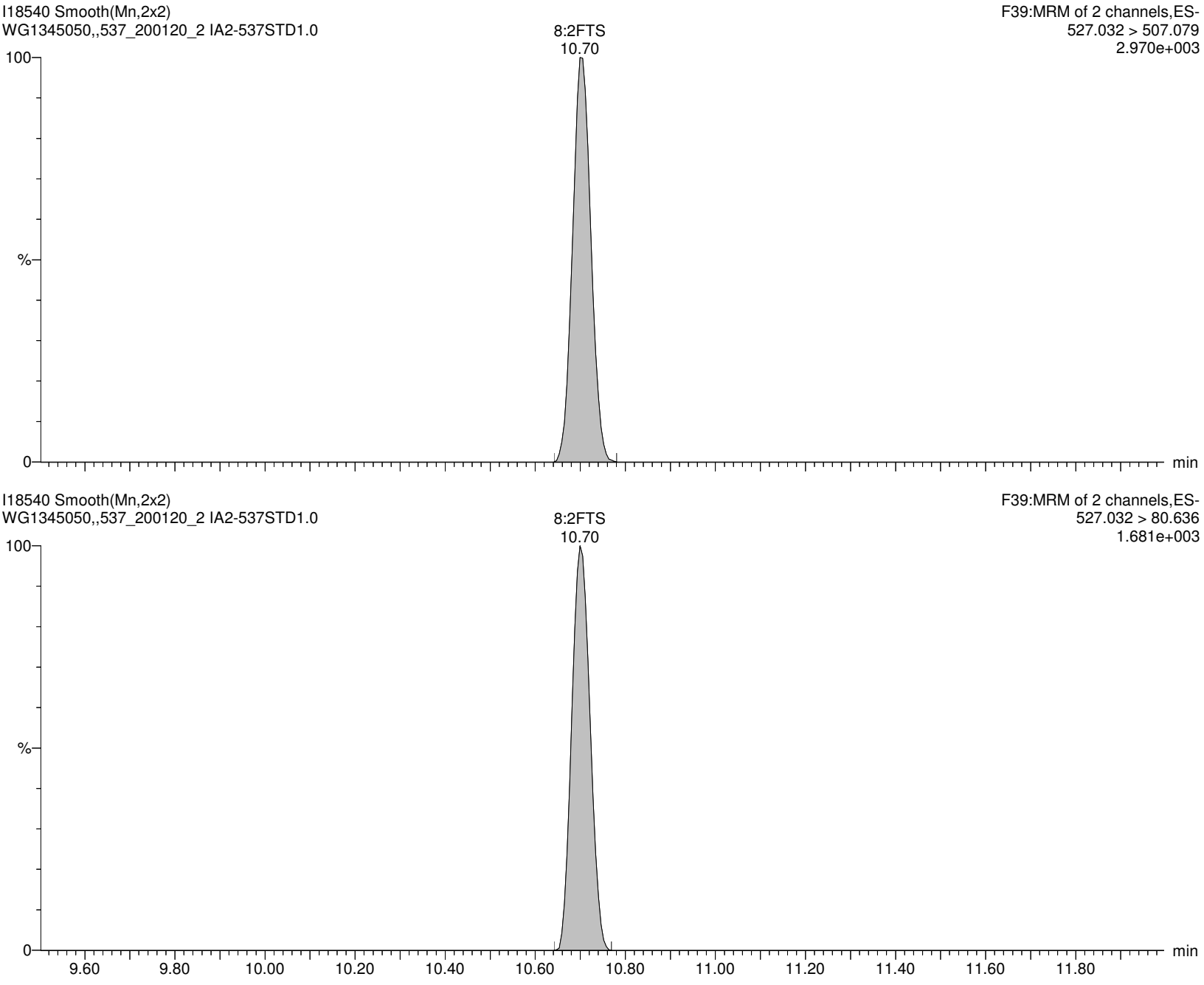

all concentration units in (ng/mL)

Alpha Analytical Inc.
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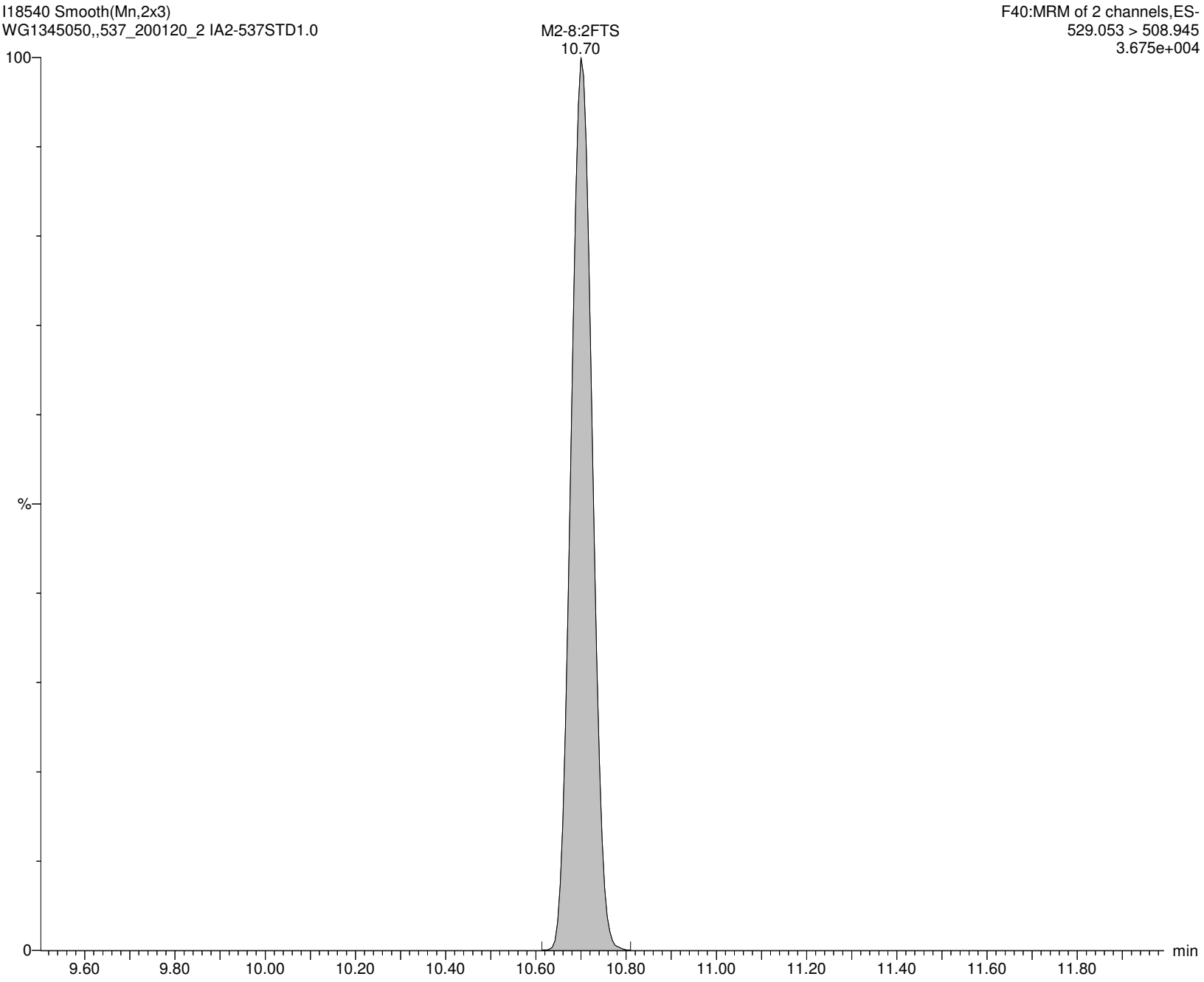

all concentration units in (ng/mL)

Alpha Analytical Inc.
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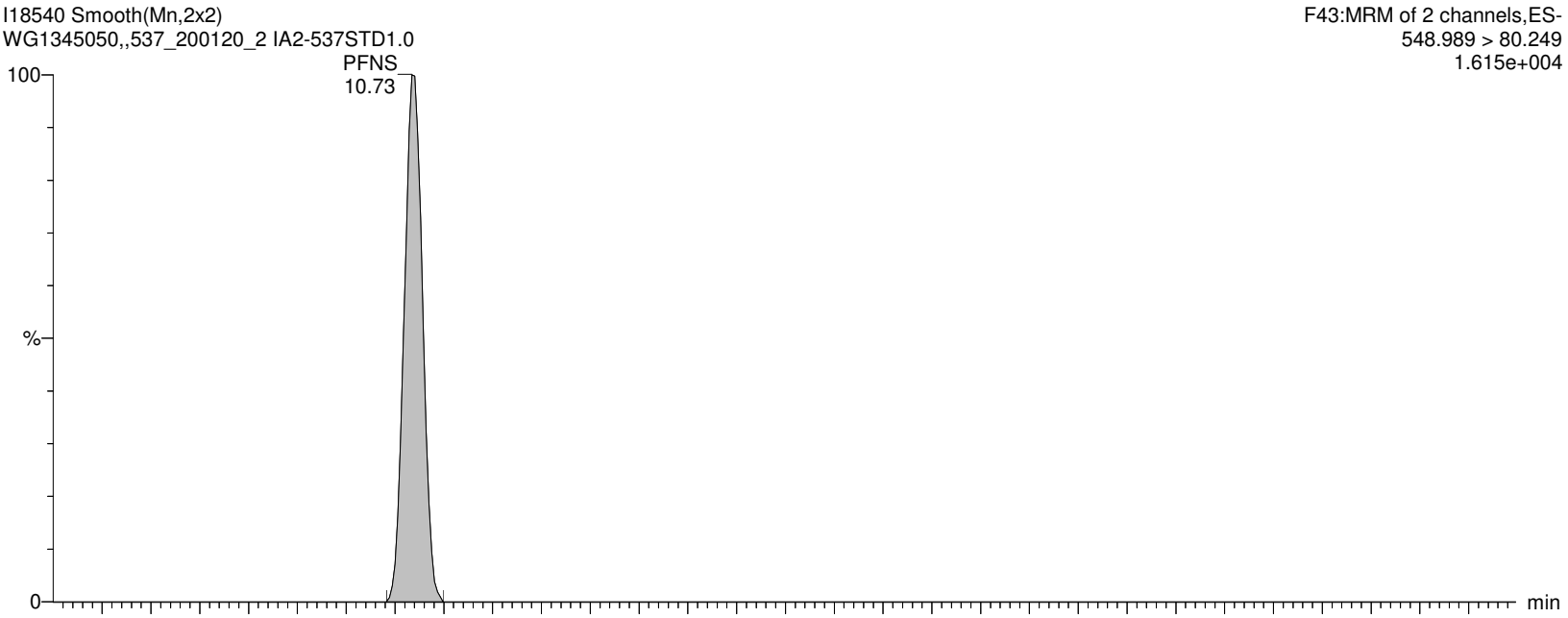

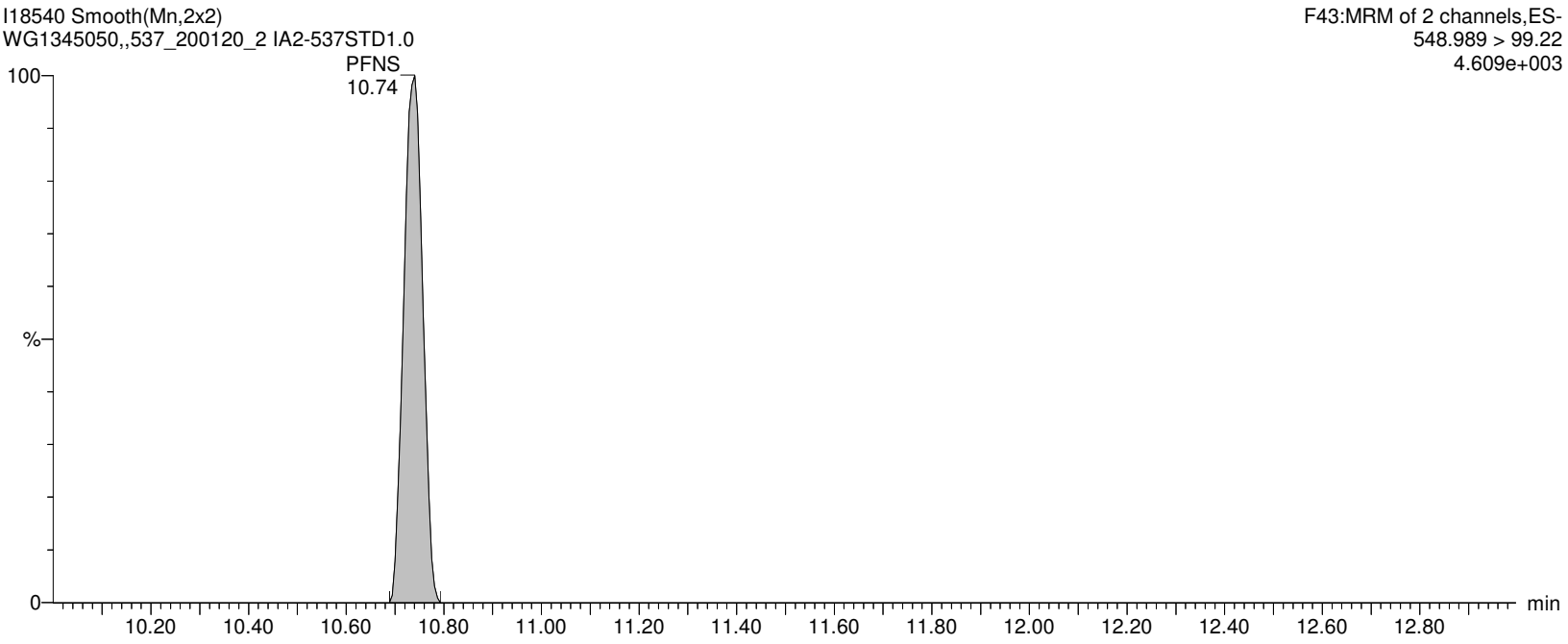

all concentration units in (ng/mL)

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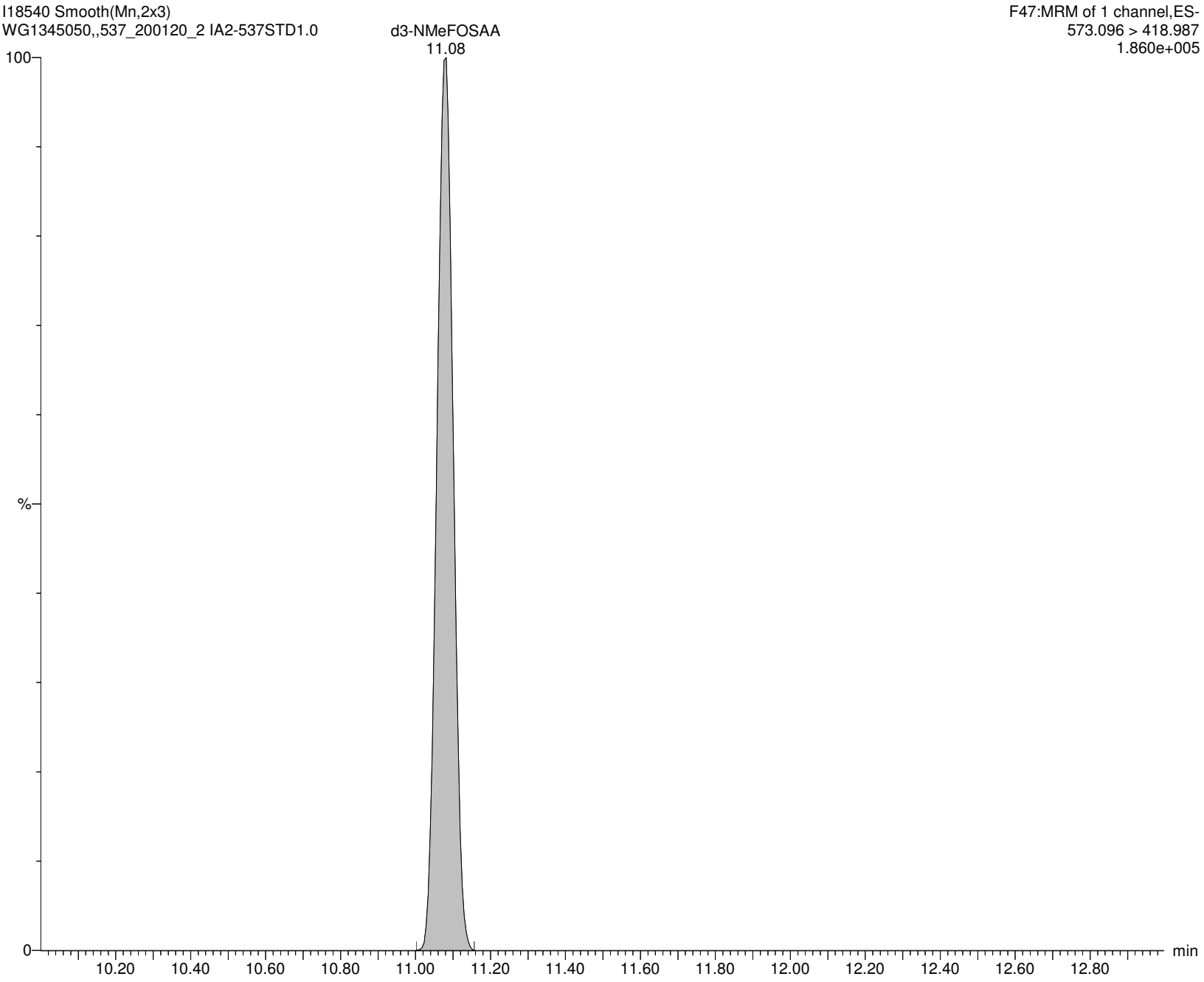

all concentration units in (ng/mL)

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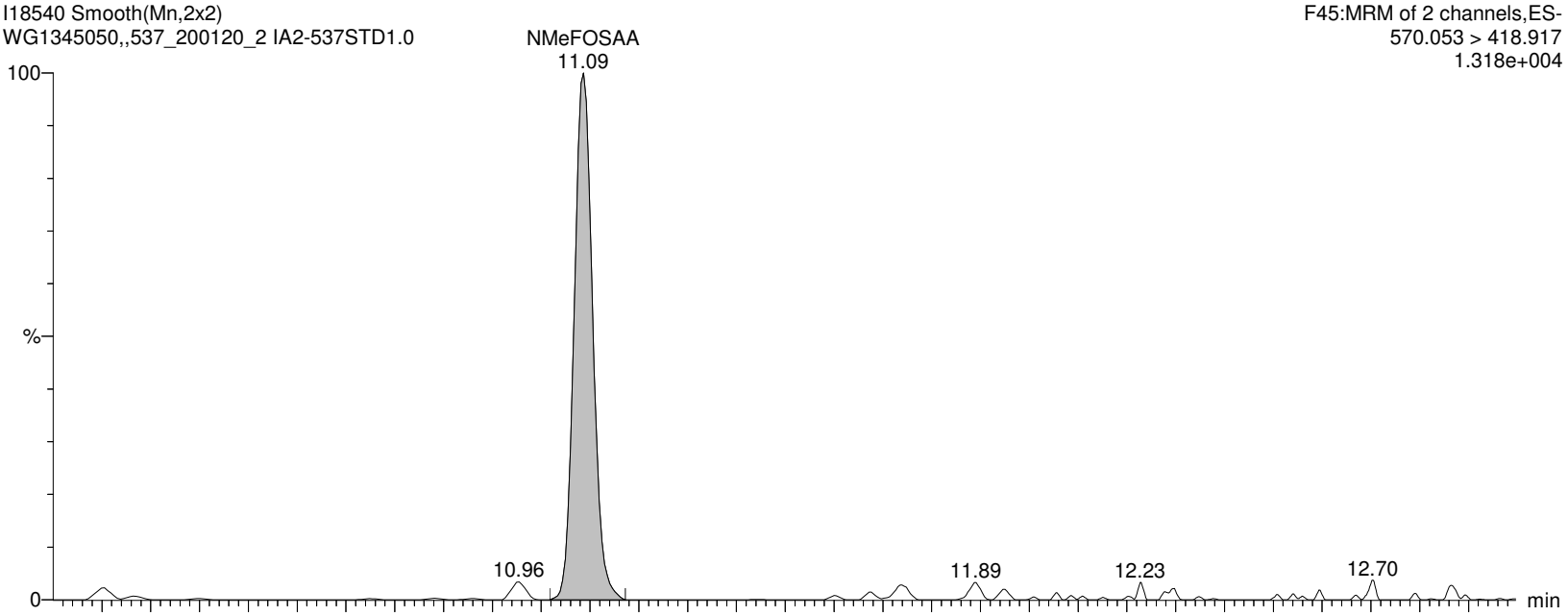

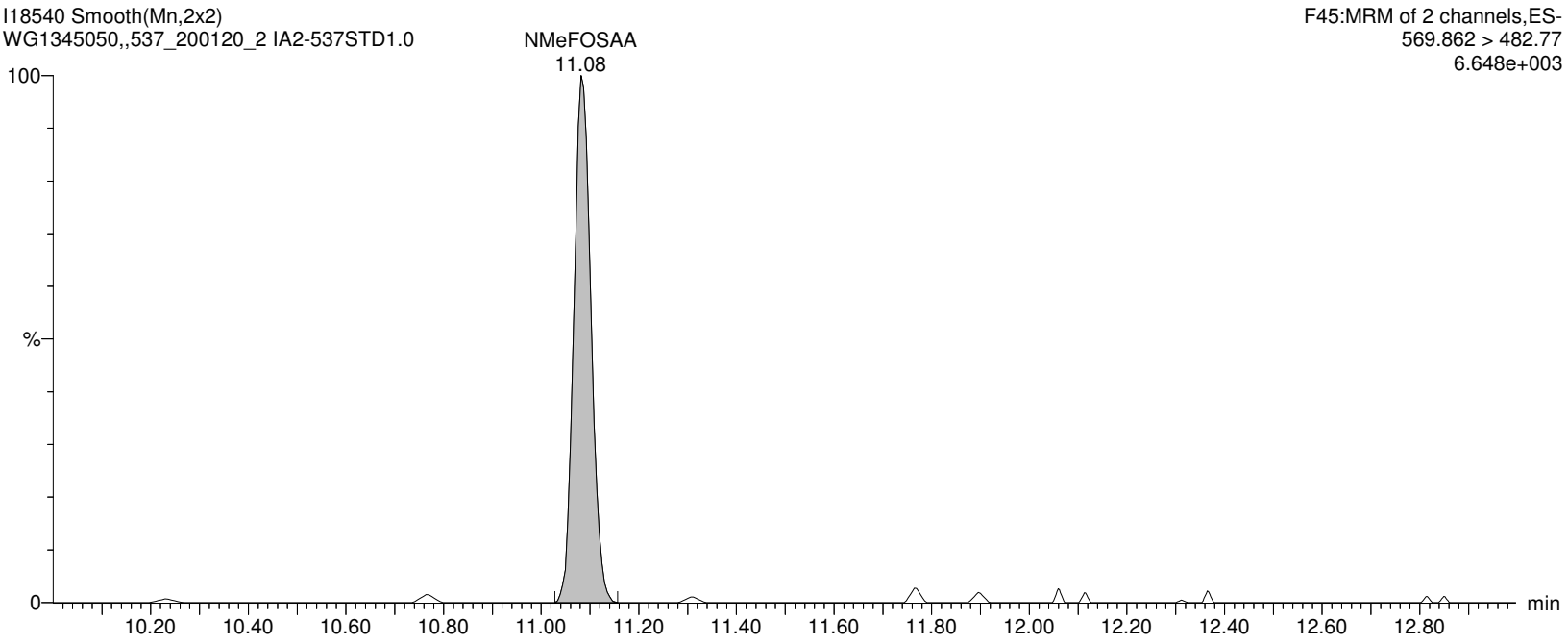

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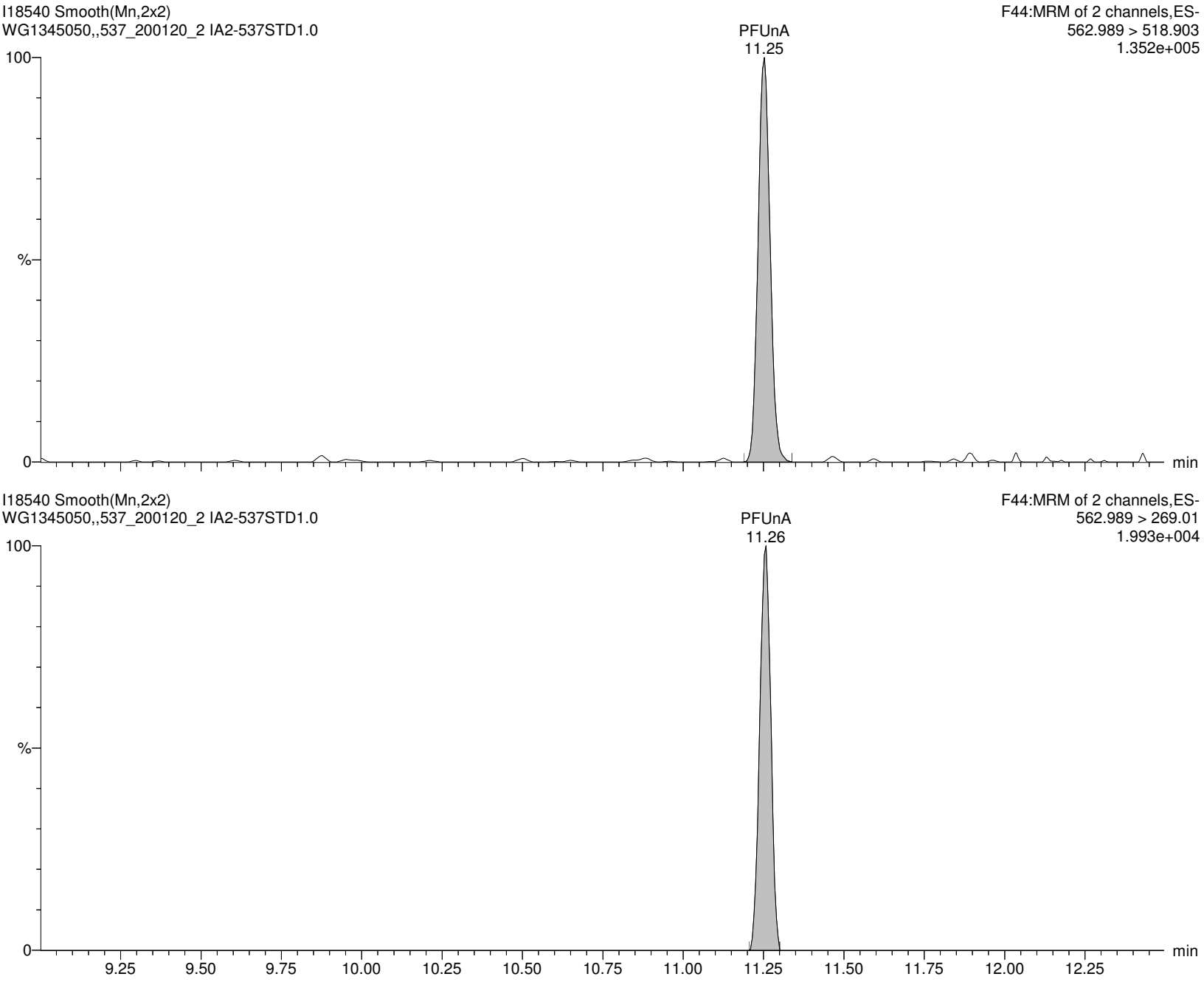

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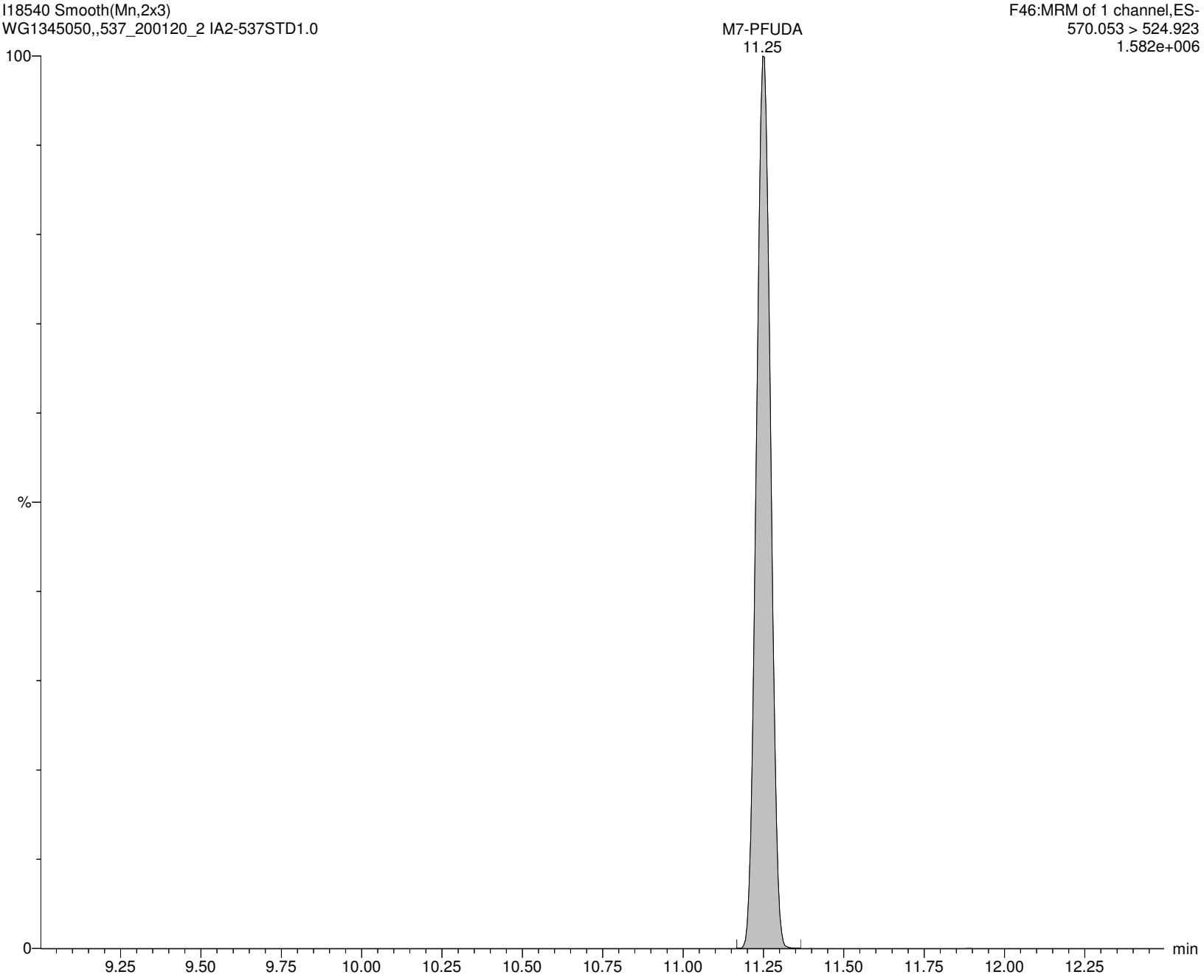

all concentration units in (ng/mL)

Alpha Analytical Inc.
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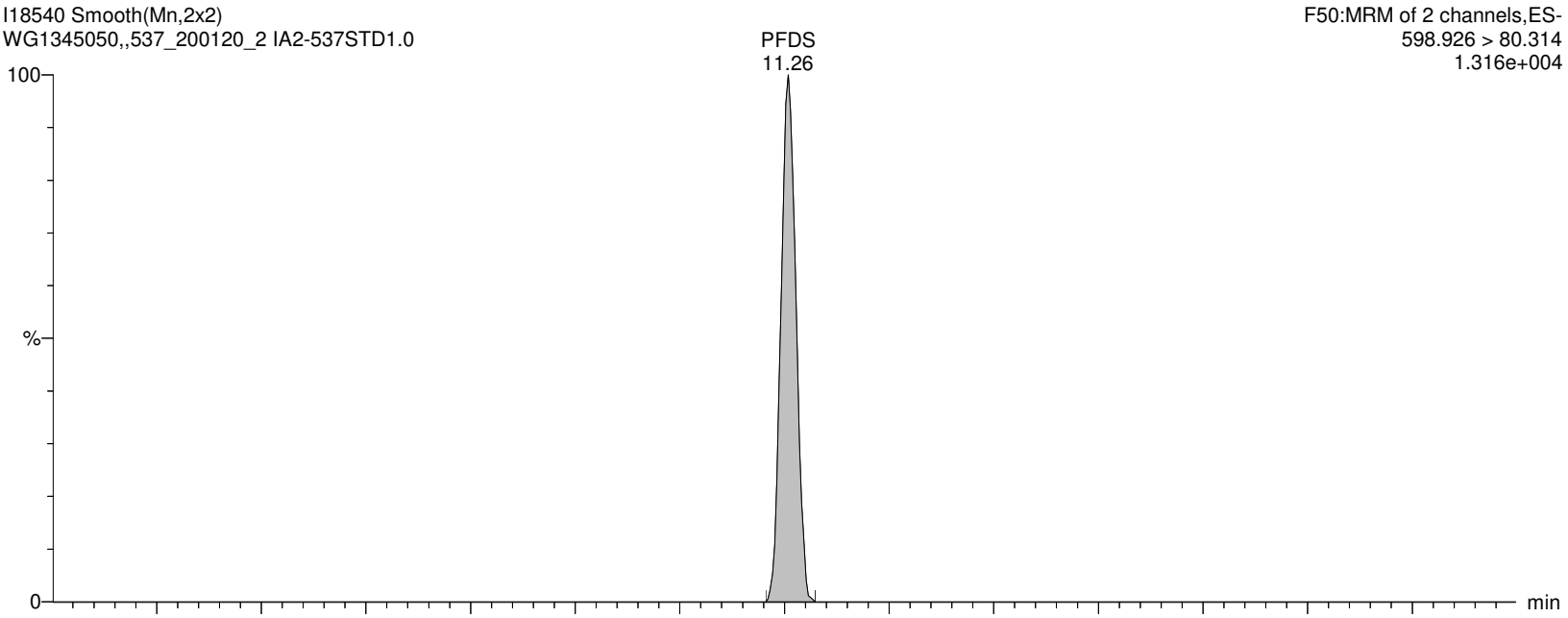

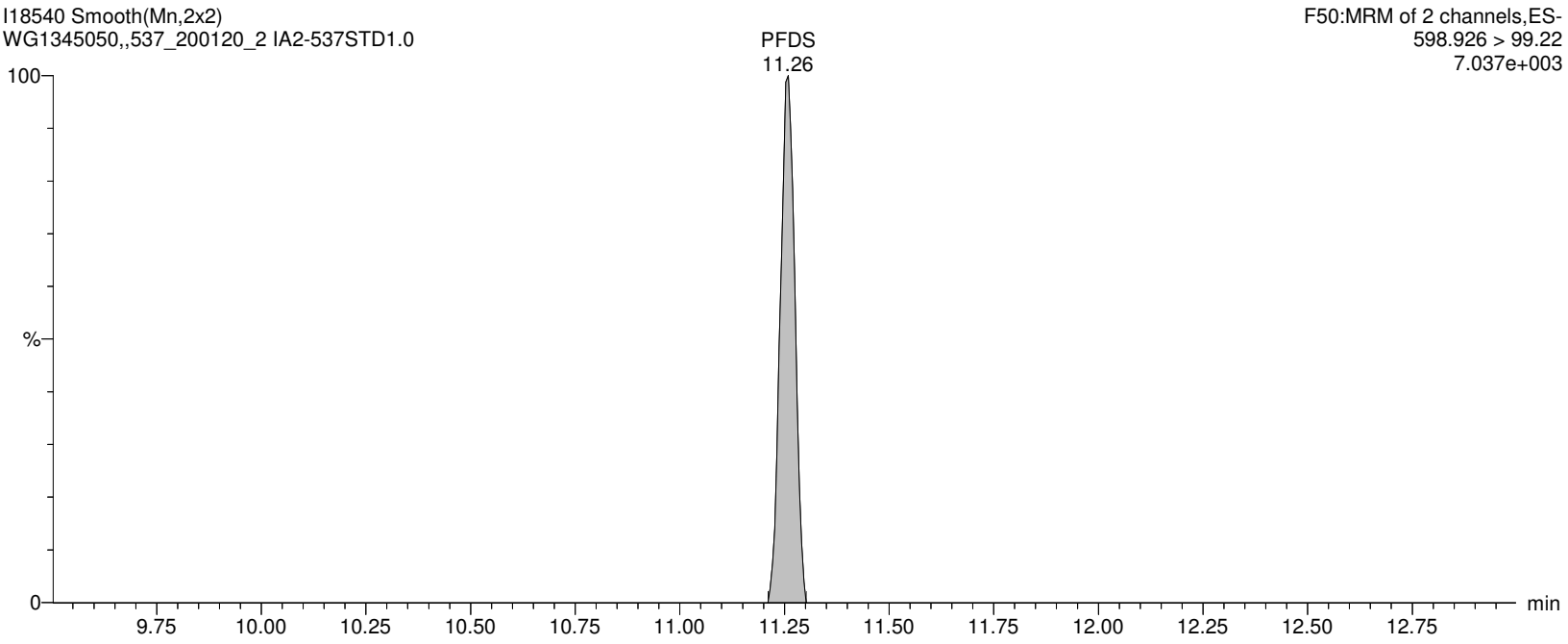

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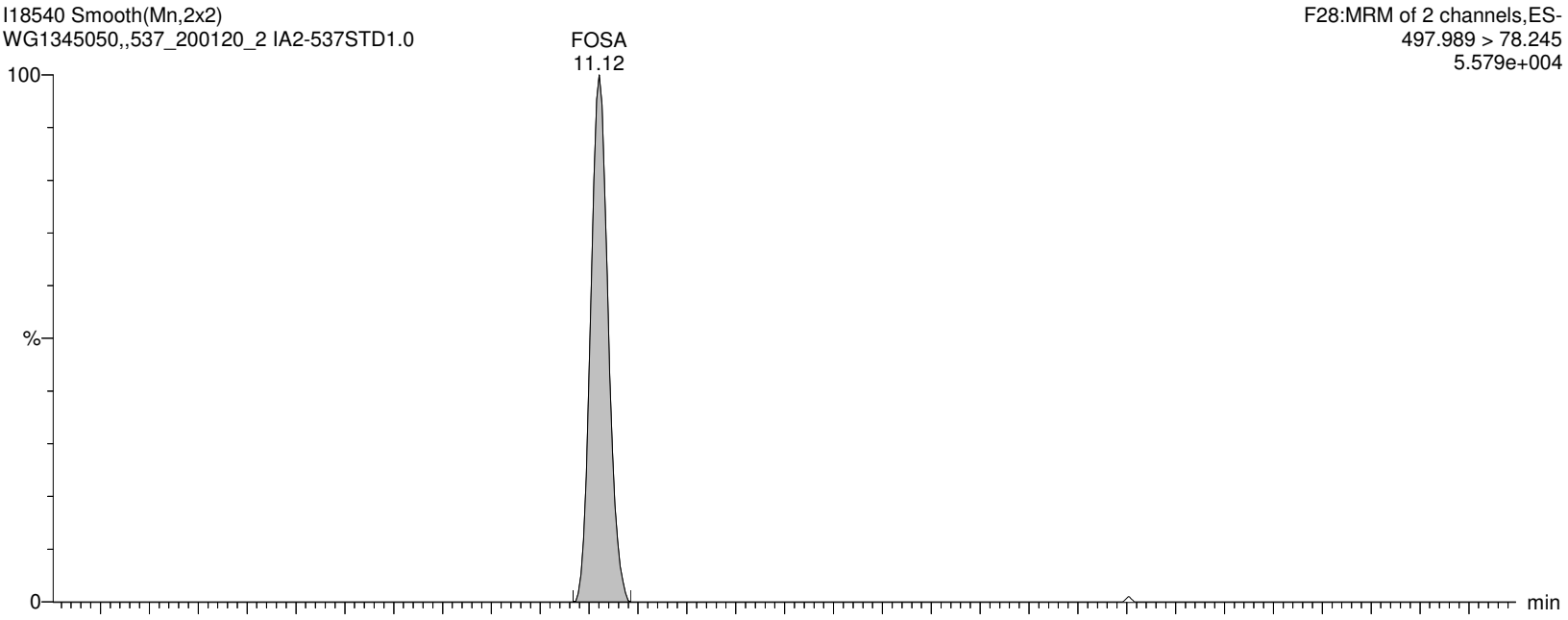
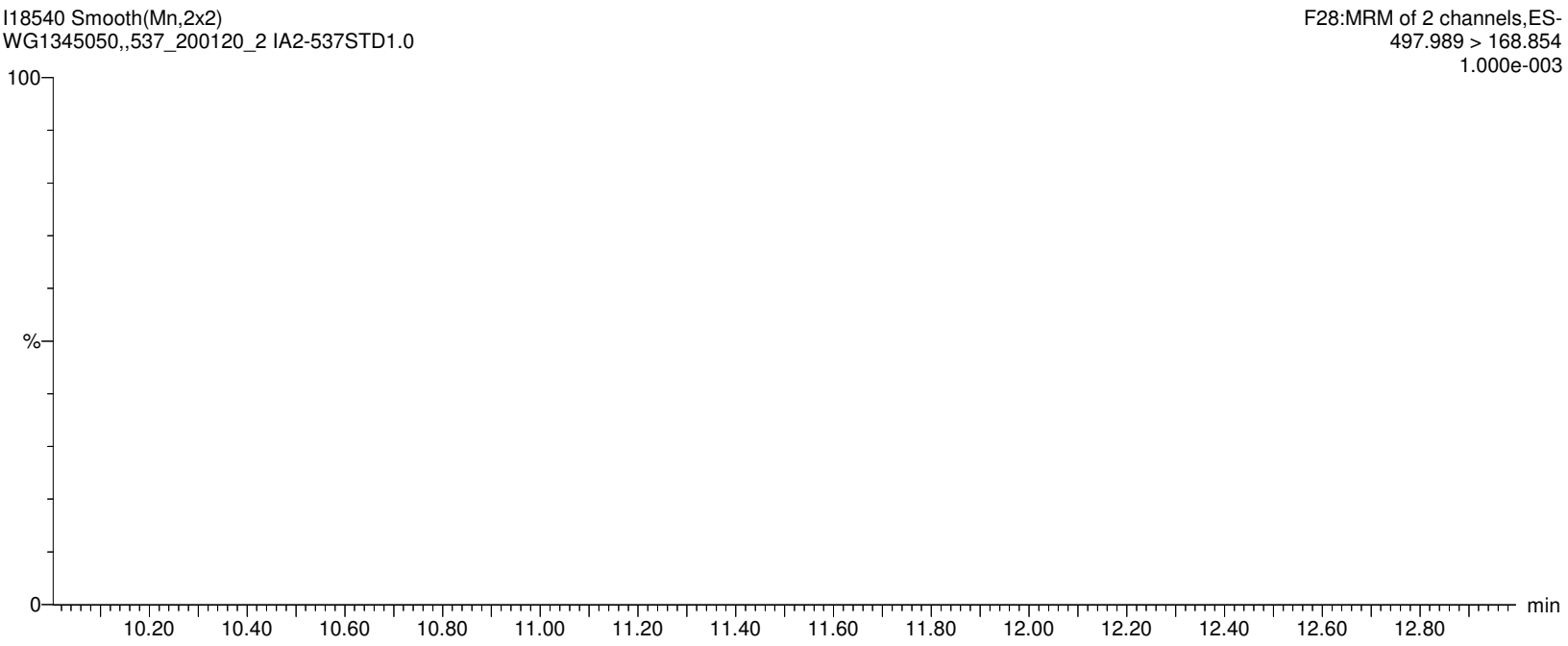
FOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
Printed: Friday, February 28, 2020 09:28:00 Eastern Standard Time

Name: I18540
ID: IA2-537STD1.0
Date: 27-Feb-2020
Time: 17:04:20
Description: WG1345050,,537_200120_2
User: LCMS01:JW
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
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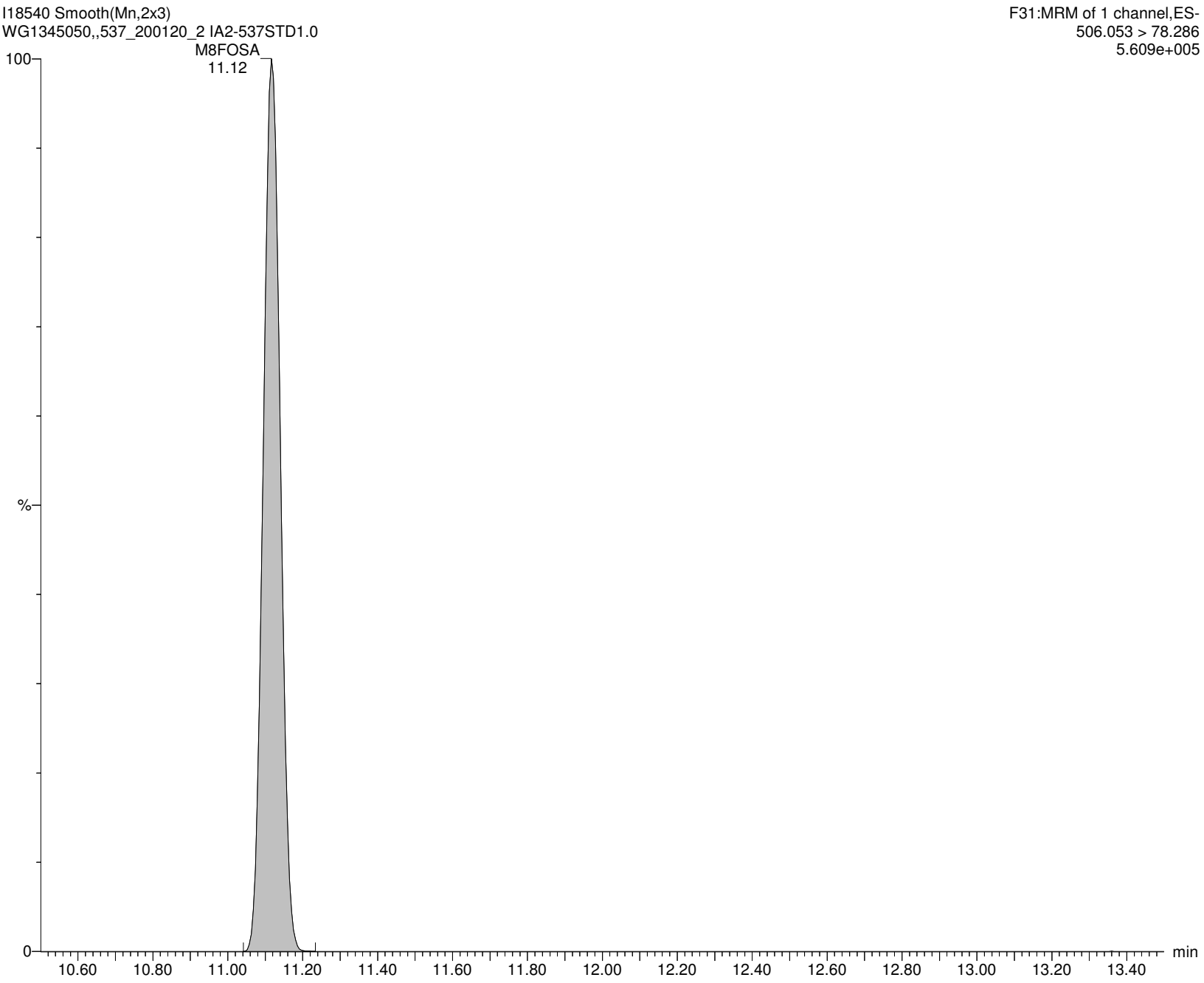

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Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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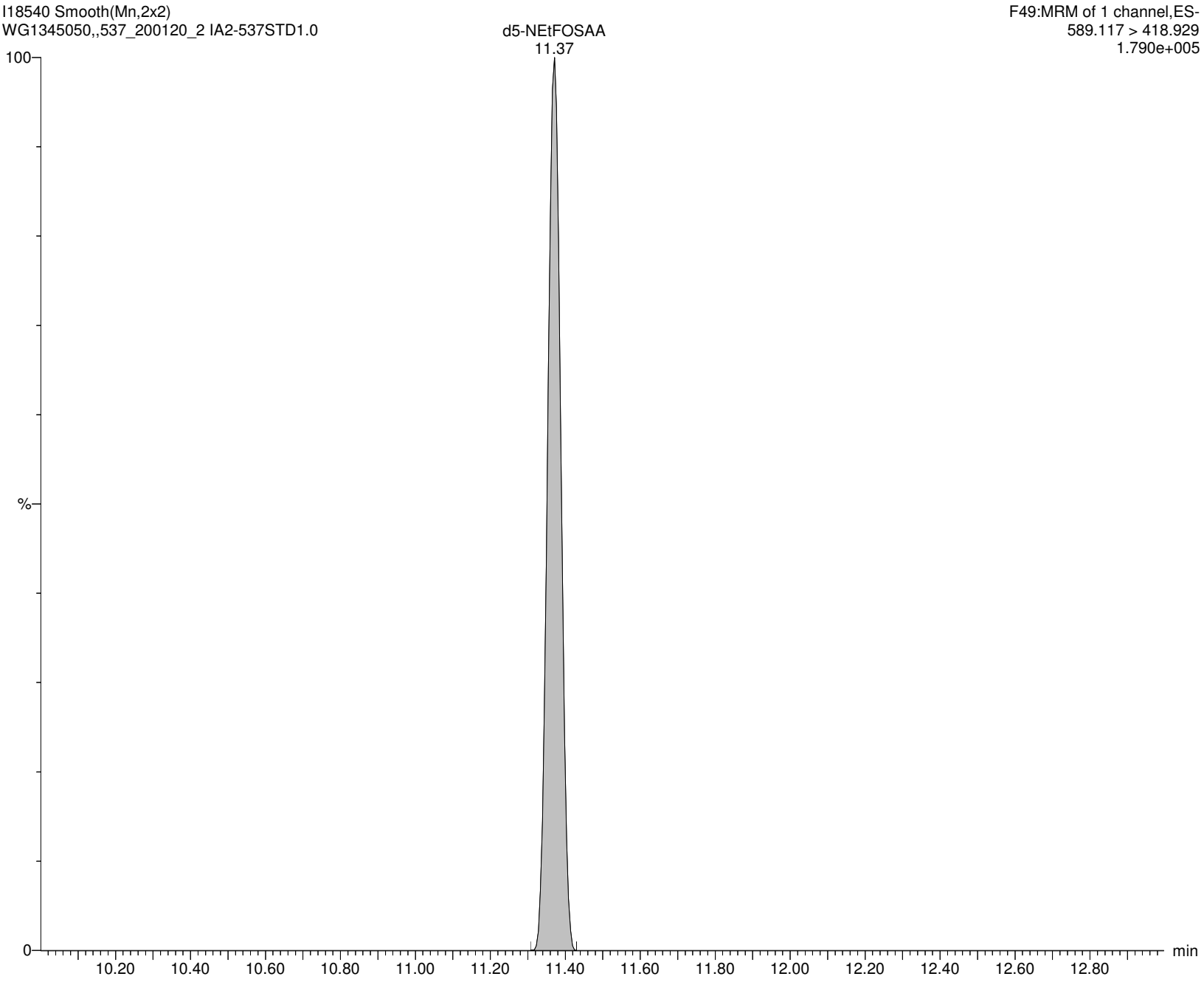

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:12:40 Eastern Standard Time
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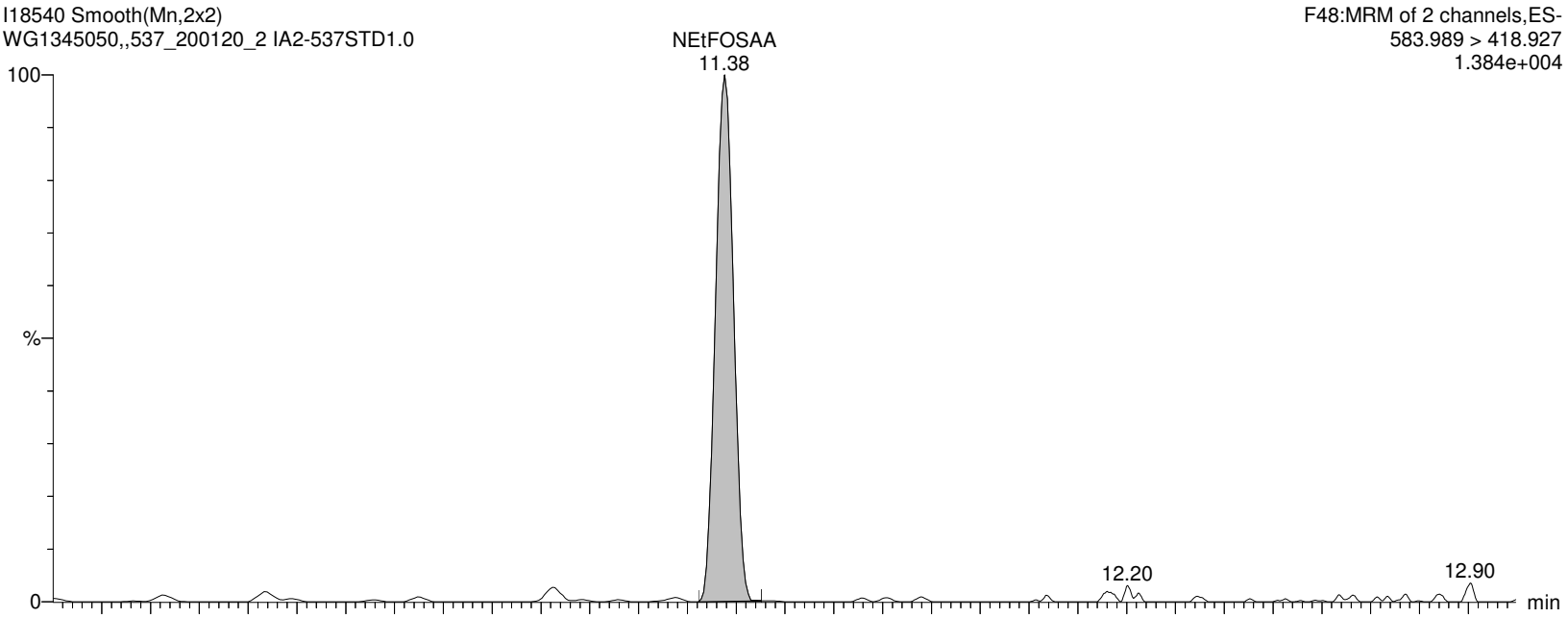

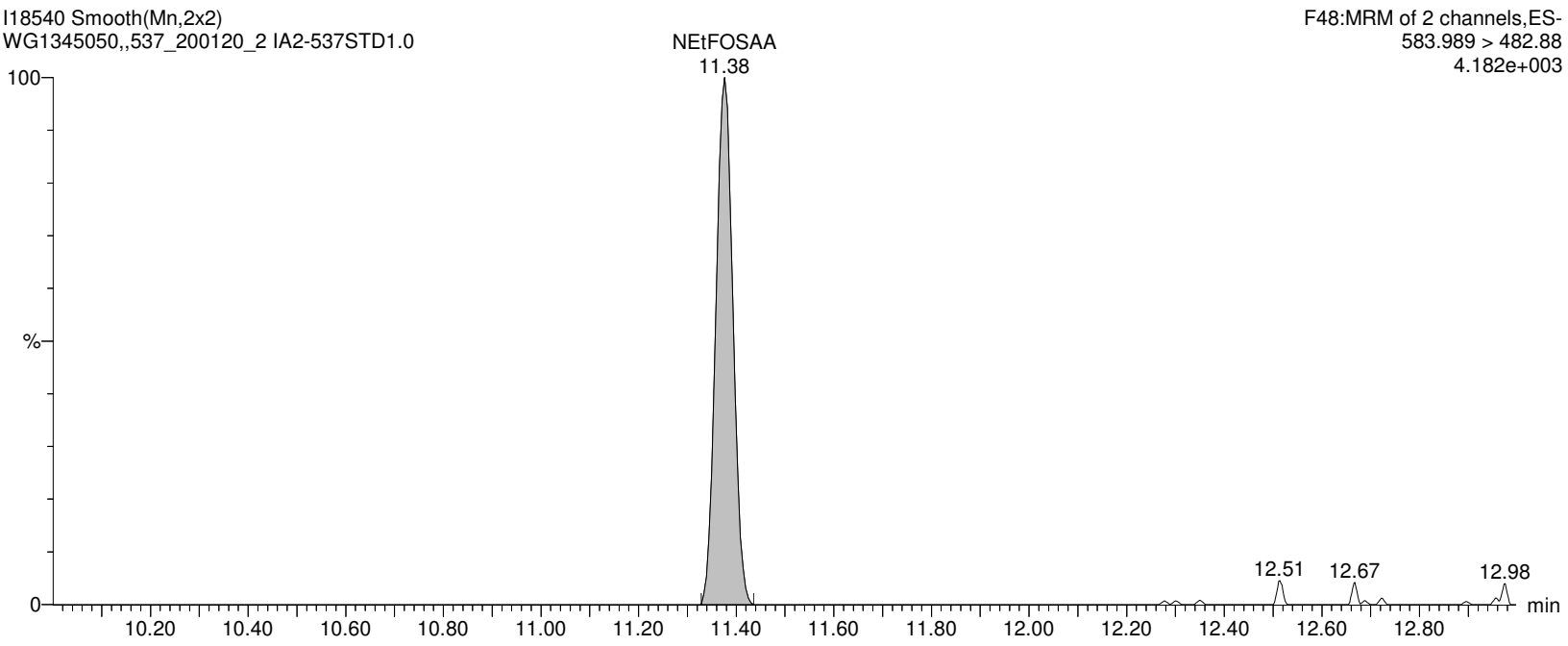

all concentration units in (ng/mL)

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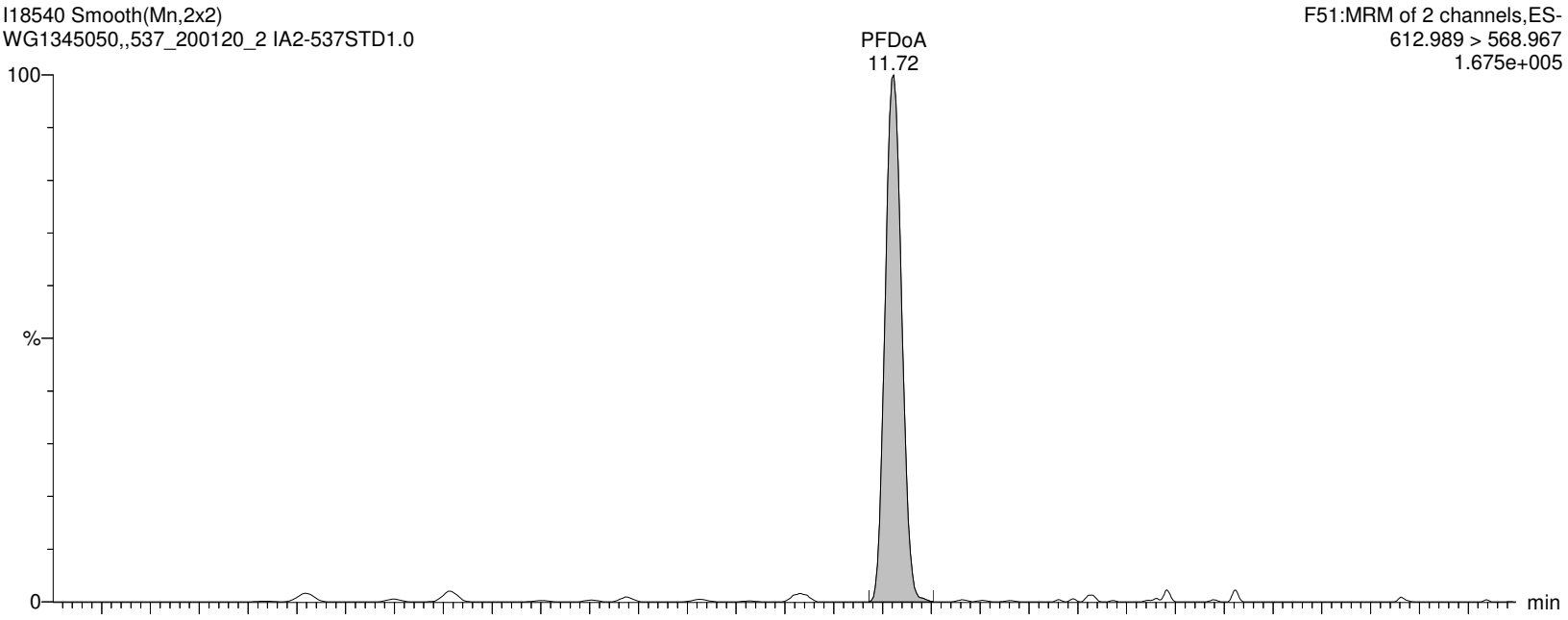

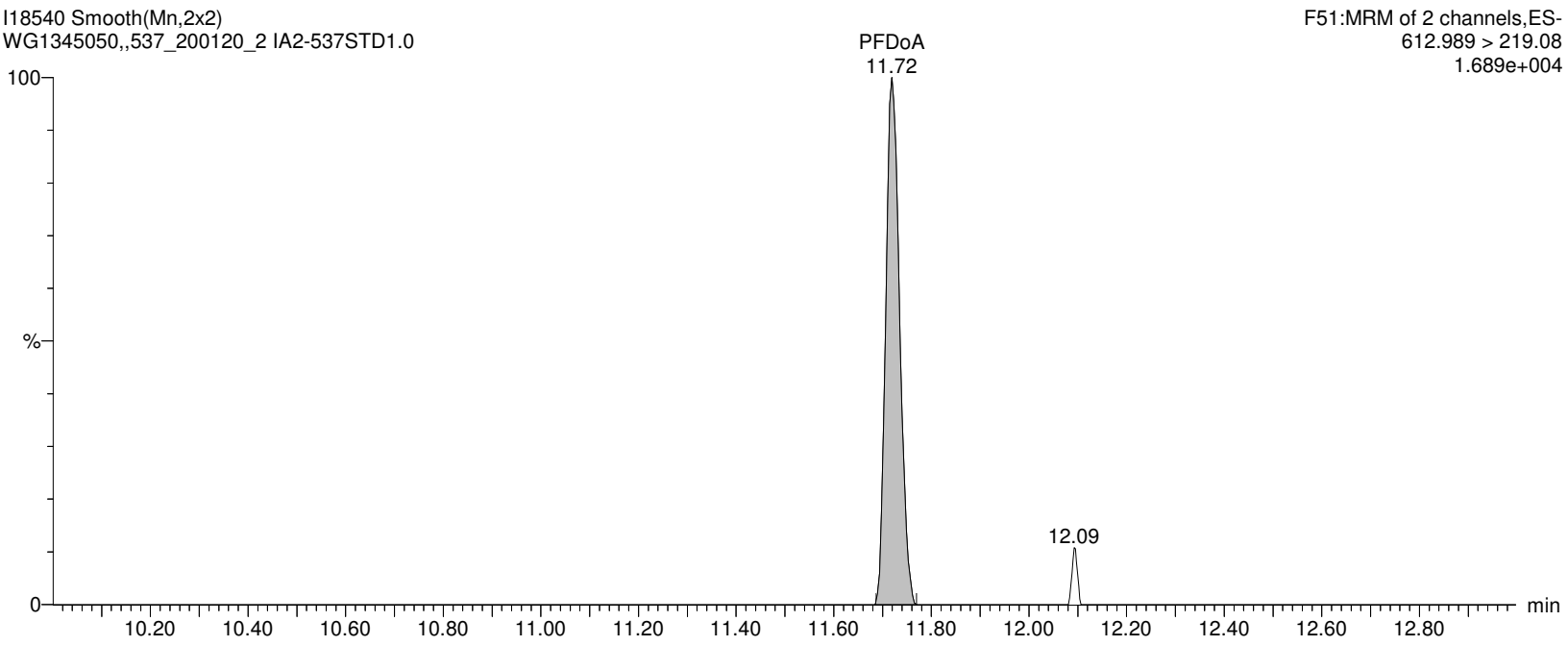

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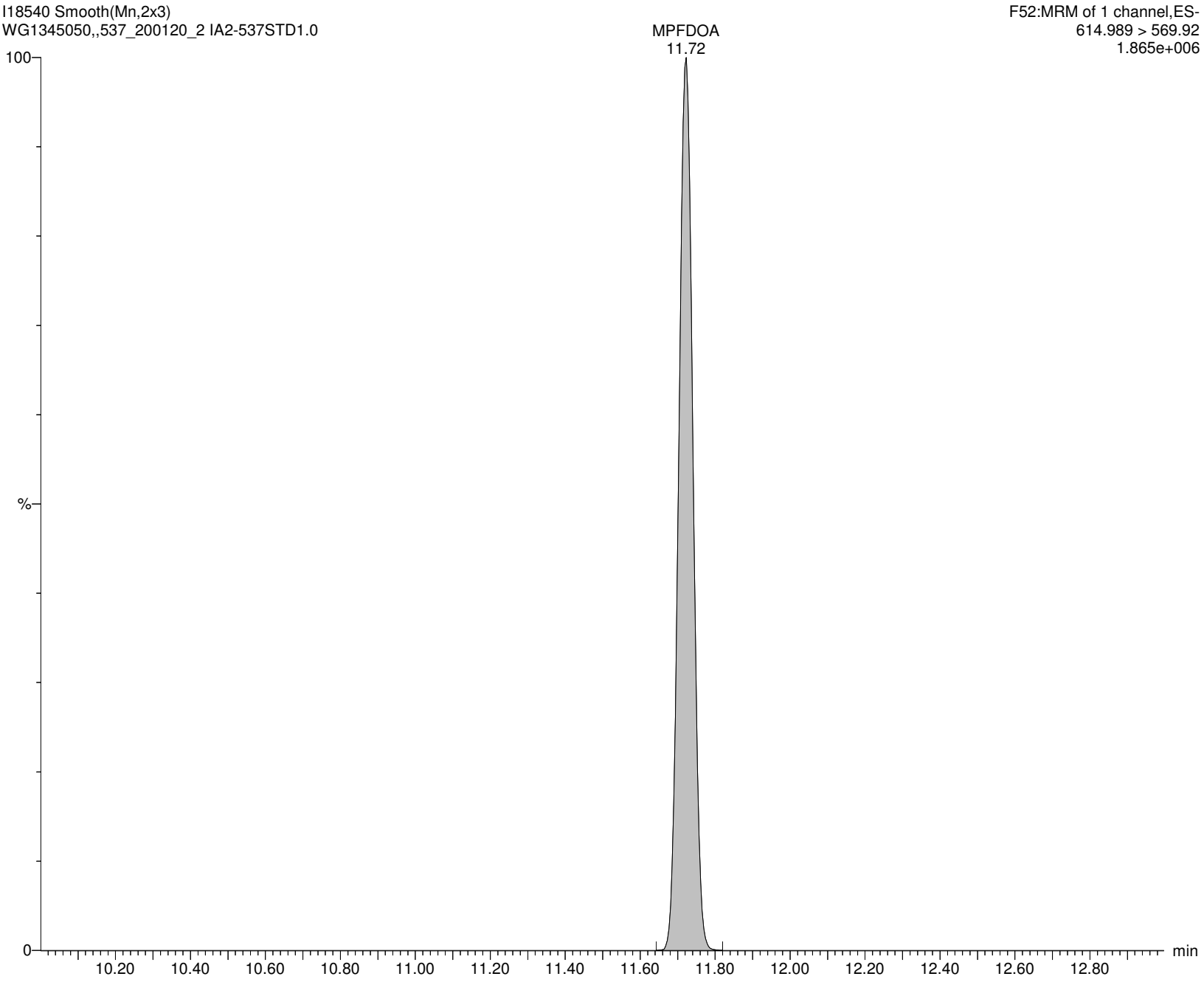

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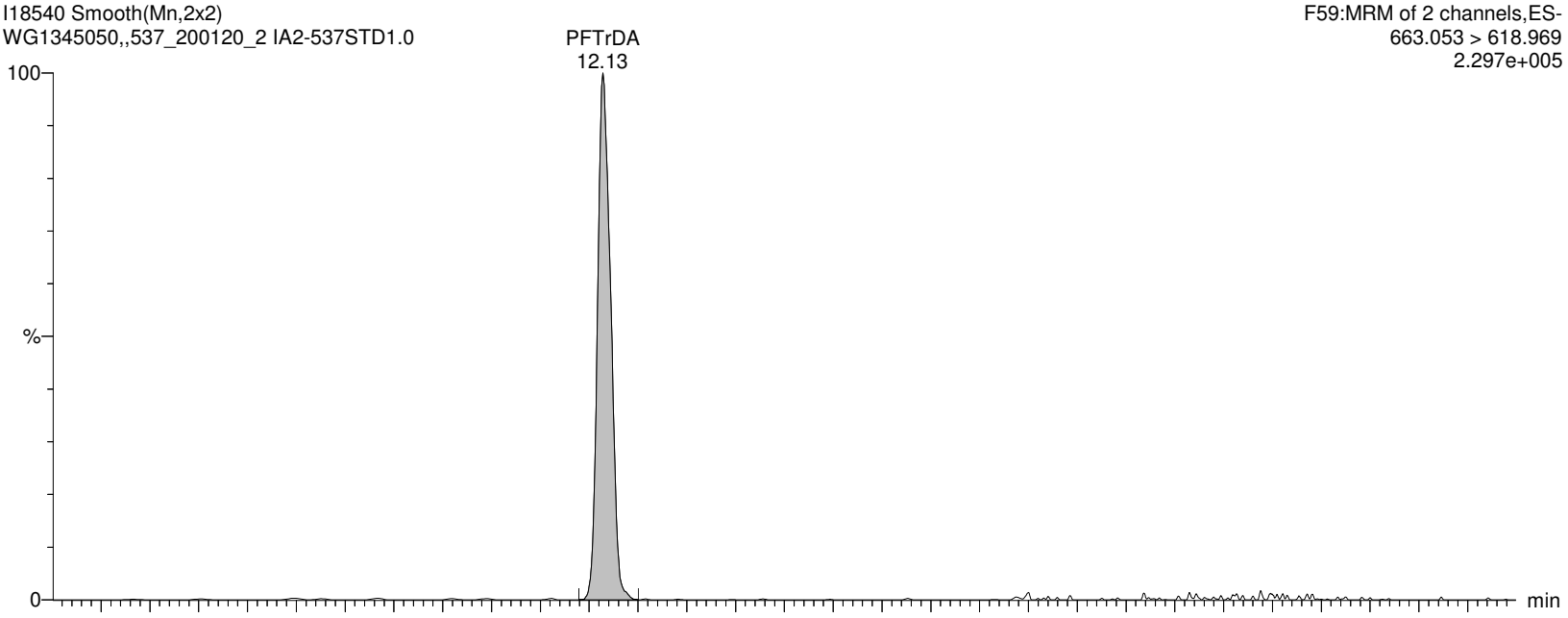

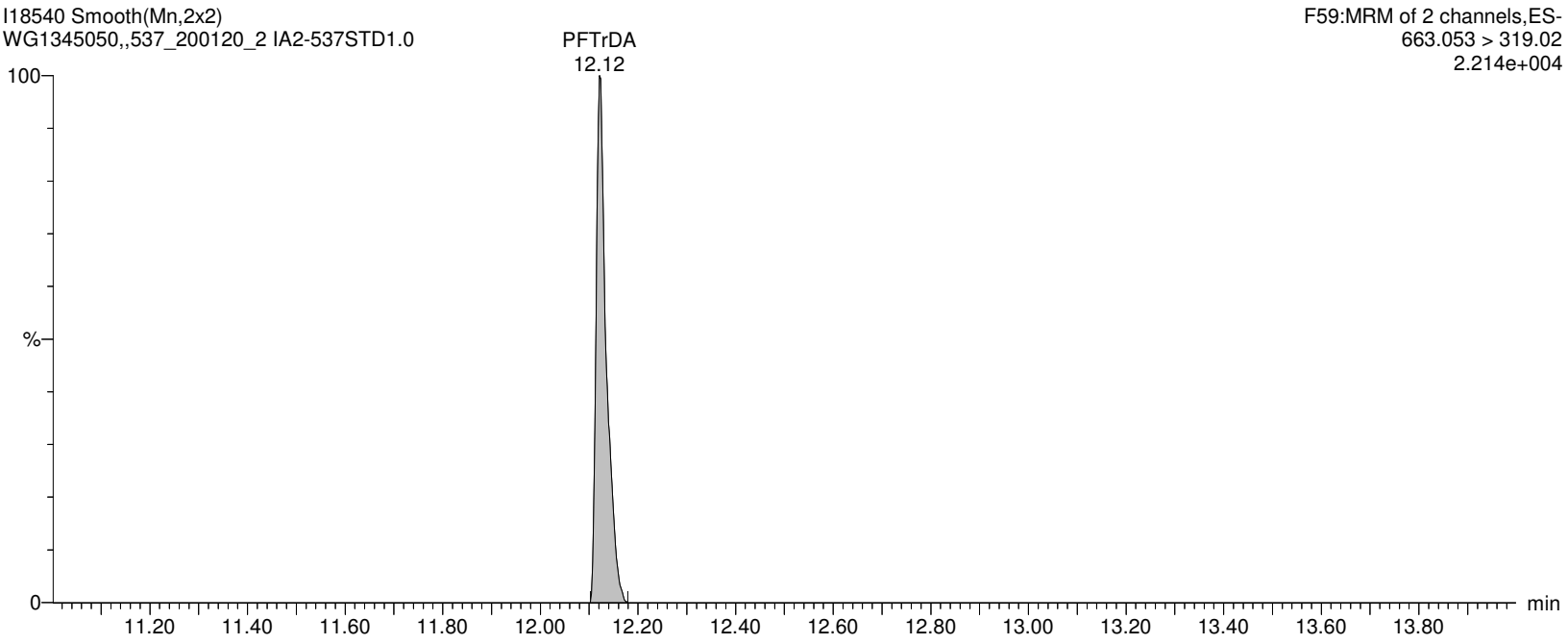

all concentration units in (ng/mL)

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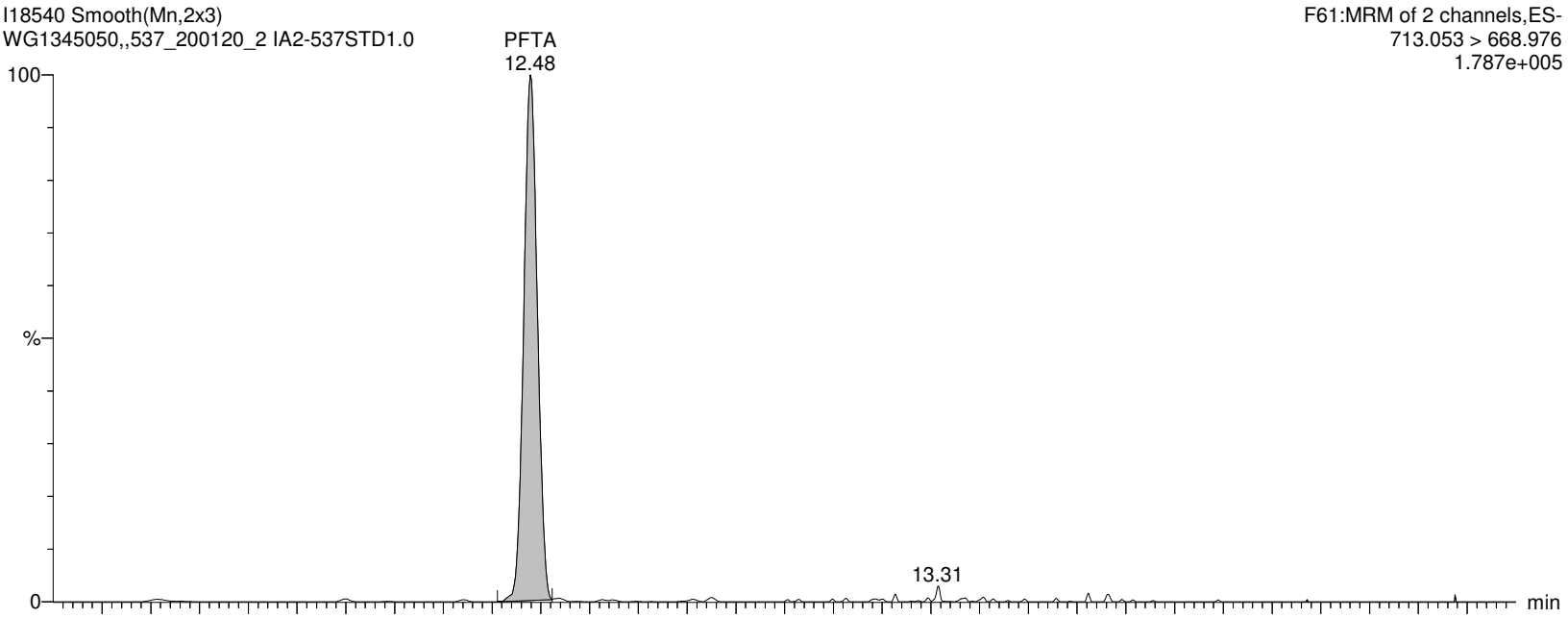

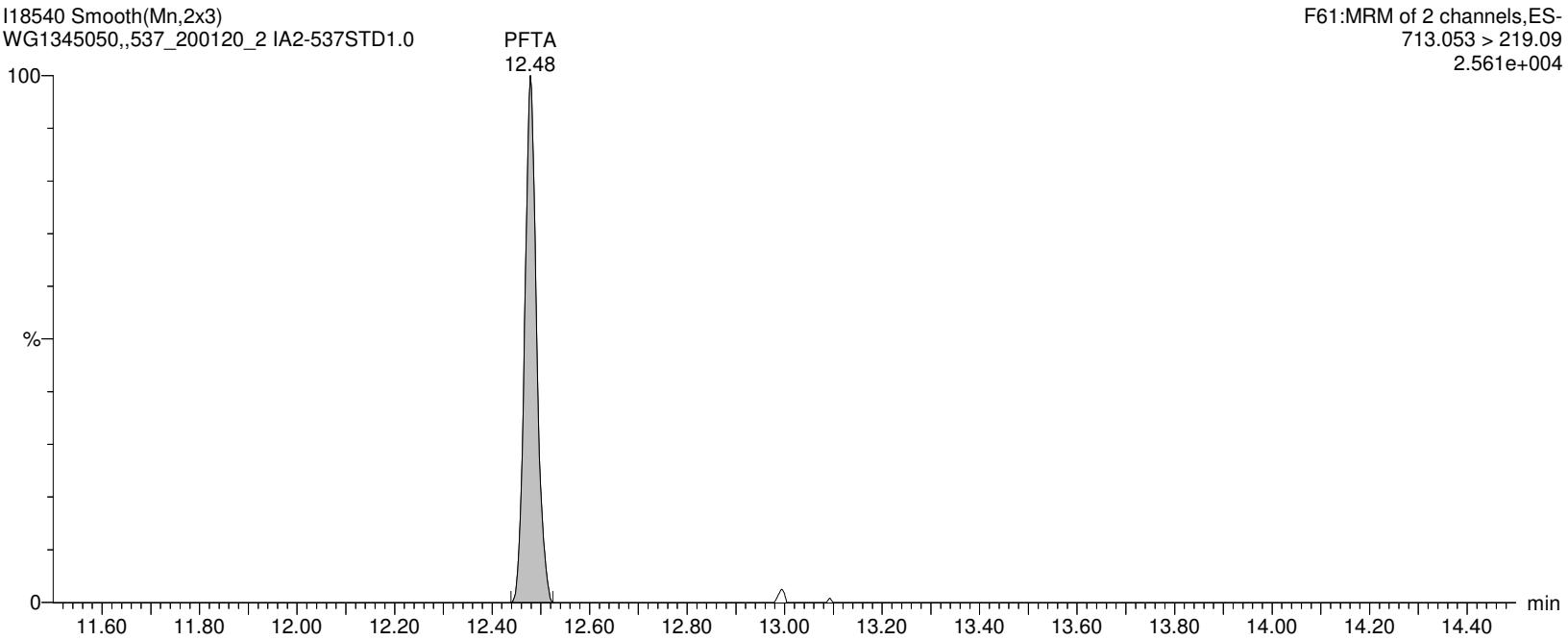

all concentration units in (ng/mL)

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Instrument: XEVO-TQSmicro#QEA0276
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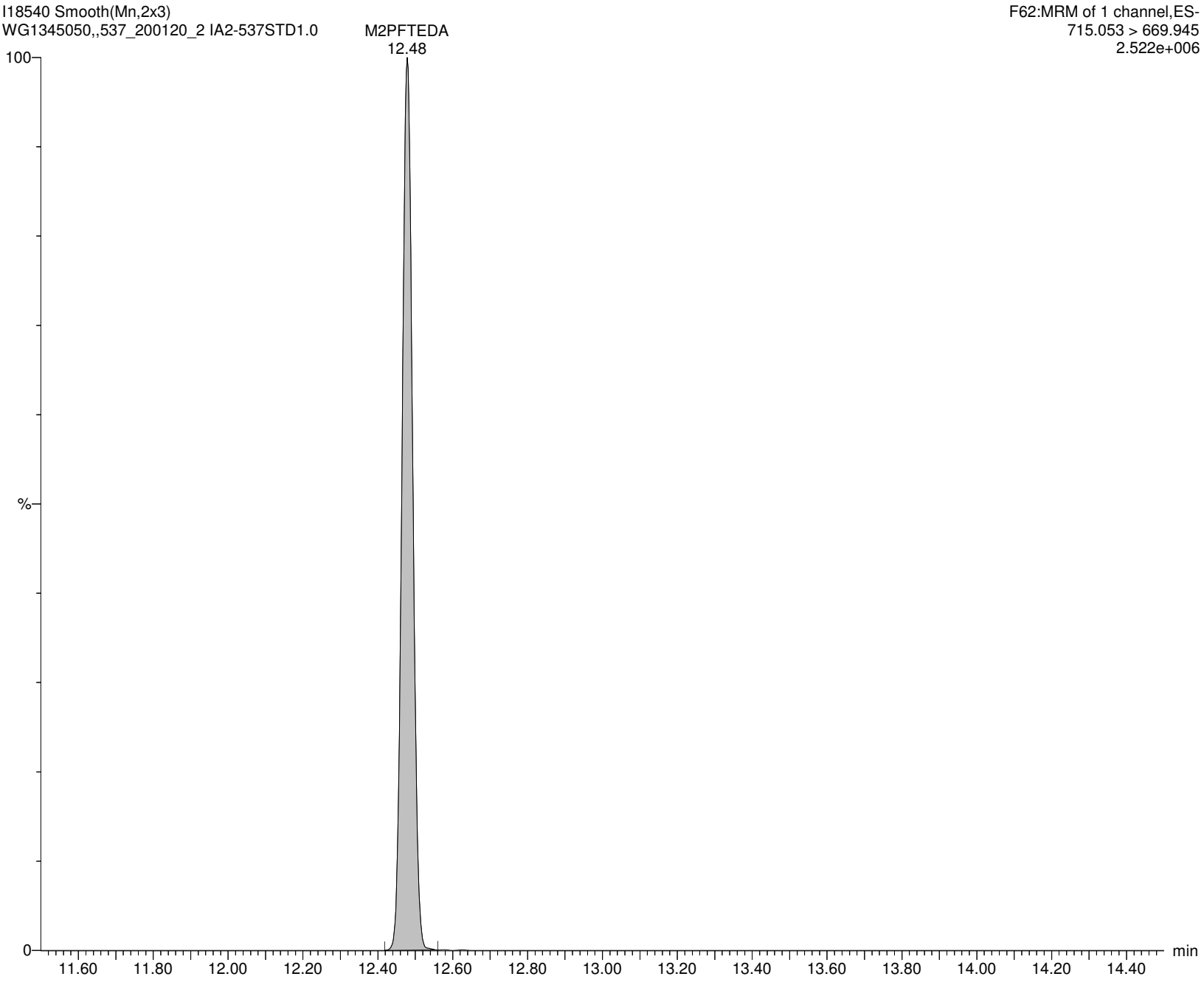

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICV.qld
Last Altered: Friday, February 28, 2020 09:22:22 Eastern Standard Time
Printed: Friday, February 28, 2020 09:23:05 Eastern Standard Time

Method: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 09:16:06
Calibration: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 09:12:40

ID: CA2-537STD010
Name: I18543
Date: 27-Feb-2020
Time: 18:59:36
Description: WG1345050,,537ISO_ICV_200120
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.26	212.926 > 169.111	34910		9.812		na	98.1
2	M3PFBA	INT STD	2.26	215.926 > 172.122	47344		12.040		na	120.4
3	MPFBA	INT STD	2.26	216.926 > 172.137	49190		9.067		na	90.7
4	PFPeA	2706-90-3	5.22	262.926 > 219.002	47625		10.434		na	104.3
5	M5PFPEA	INT STD	5.22	267.989 > 223.081	65657		9.122		na	91.2
6	PFBS	375-73-5	5.88	298.926 > 79.923	10825		10.461	1.98	NO	118.2
7	M3PFBS	INT STD	5.88	301.989 > 80.254	11472		8.381		na	83.8
8	4:2FTS	757124-72-4	7.05	326.926 > 306.957	4756		10.949	1.81	NO	117.1
9	M2-4:2FTS	INT STD	7.05	329.117 > 309.079	5462		7.660		na	76.6
10	PFHxA	307-24-4	7.13	312.989 > 269.028	68523		10.817	17.48	NO	108.2
11	M5PFHxA	INT STD	7.13	317.989 > 273.045	76480		8.354		na	83.5
12	PFPeS	2706-91-4	7.44	348.926 > 80.251	11363		10.552	2.36	NO	112.3
13	PFHpA	375-85-9	8.40	362.926 > 319.014	78630		9.631	4.71	NO	96.3
14	M4PFHpA	INT STD	8.40	366.926 > 321.979	89176		8.396		na	84.0
15	br-PFHxS	355-46-4	8.32	398.904 > 79.915	1326		1.578		YES	92.8
16	L-PFHxS	355-46-4	8.55	398.904 > 79.915	8264		9.867	2.09	NO	133.3
17	PFHxS	355-46-4		398.904 > 79.915	9590		11.445		na	
18	M3PFHxS	INT STD	8.55	401.926 > 80.317	11320		9.232		na	92.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.34	412.989 > 368.9	76133		9.765	8.73	NO	97.7
21	M2PFOA	INT STD	9.34	415.032 > 369.968	111820		13.291		na	132.9
22	PFOA	335-67-1		412.989 > 368.9	76133		9.765		na	
23	M8PFOA	INT STD	9.34	420.989 > 375.979	90739		8.510		na	85.1
24	6:2FTS	27619-97-2	9.30	426.989 > 406.921	1016		9.141	0.66	NO	96.2
25	M2-6:2FTS	INT STD	9.30	428.989 > 408.917	4657		10.495		na	105.0
26	PFHpS	375-92-8	9.43	448.926 > 80.257	6661		11.382	1.13	NO	119.8
27	PFNA	375-95-1	10.09	462.989 > 418.931	73439		10.842	4.13	NO	108.4
28	M9PFNA	INT STD	10.09	472.053 > 426.947	91037		8.733		na	87.3
29	br-PFOS	1763-23-1	9.88	498.968 > 79.918	2317	m5	2.634	4.08	NO	131.7
30	L-PFOS	1763-23-1	10.13	498.968 > 79.918	4434		7.049	1.33	NO	96.6
31	PFOS	1763-23-1		498.968 > 79.918	6751		9.684		na	
32	M4PFOS	INT STD	10.13	503.032 > 80.306	10669		12.560		na	125.6
33	M8PFOS	INT STD	10.13	507.053 > 80.294	11631		9.387		na	93.9
34	PFDA	335-76-2	10.71	513.053 > 468.906	67936		10.038	5.62	NO	100.4
35	M2PFDA	INT STD	10.71	515.053 > 469.934	84890		12.833		na	128.3
36	M6PFDA	INT STD	10.71	519.053 > 473.931	88354		9.460		na	94.6
37	8:2FTS	39108-34-4	10.70	527.032 > 507.079	1632		10.551	1.74	NO	109.9
38	M2-8:2FTS	INT STD	10.70	529.053 > 508.945	2367		8.821		na	88.2
39	PFNS	68259-12-1	10.73	548.989 > 80.249	8515		10.822	1.49	NO	112.7

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICV.qld
Last Altered: Friday, February 28, 2020 09:22:22 Eastern Standard Time
Printed: Friday, February 28, 2020 09:23:05 Eastern Standard Time

ID: CA2-537STD010
Name: I18543
Date: 27-Feb-2020
Time: 18:59:36
Description: WG1345050,,537ISO_ICV_200120
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.08	573.096 > 418.987	10414		8.417		na	84.2
41	NMeFOSAA	2355-31-9	11.08	570.053 > 418.917	6546		10.518	2.66	NO	105.2
42	PFUnA	2058-94-8	11.25	562.989 > 518.903	63605		8.781	8.18	NO	87.8
43	M7-PFUDA	INT STD	11.25	570.053 > 524.923	78006		9.505		na	95.0
44	PFDS	335-77-3	11.26	598.926 > 80.314	8246		10.763	1.48	NO	111.5
45	FOSA	754-91-6	11.11	497.989 > 78.245	26078		10.864	293.16	NO	108.6
46	M8FOSA	INT STD	11.11	506.053 > 78.286	29132		7.783		na	77.8
47	d5-NEtFOSAA	INT STD	11.37	589.117 > 418.929	6900		7.648		na	76.5
48	NEtFOSAA	2991-50-6	11.37	583.989 > 418.927	6172		10.486	3.14	NO	104.9
49	PFDoA	307-55-1	11.72	612.989 > 568.967	72435		10.061	14.77	NO	100.6
50	MPFDOA	INT STD	11.72	614.989 > 569.92	79297		8.987		na	89.9
51	PFTrDA	72629-94-8	12.13	663.053 > 618.969	72136		10.047	12.01	NO	100.5
52	PFTA	376-06-7	12.48	713.053 > 668.976	79001		11.867	9.21	NO	118.7
53	M2PFTEDA	INT STD	12.48	715.053 > 669.945	89847		9.035		na	90.3

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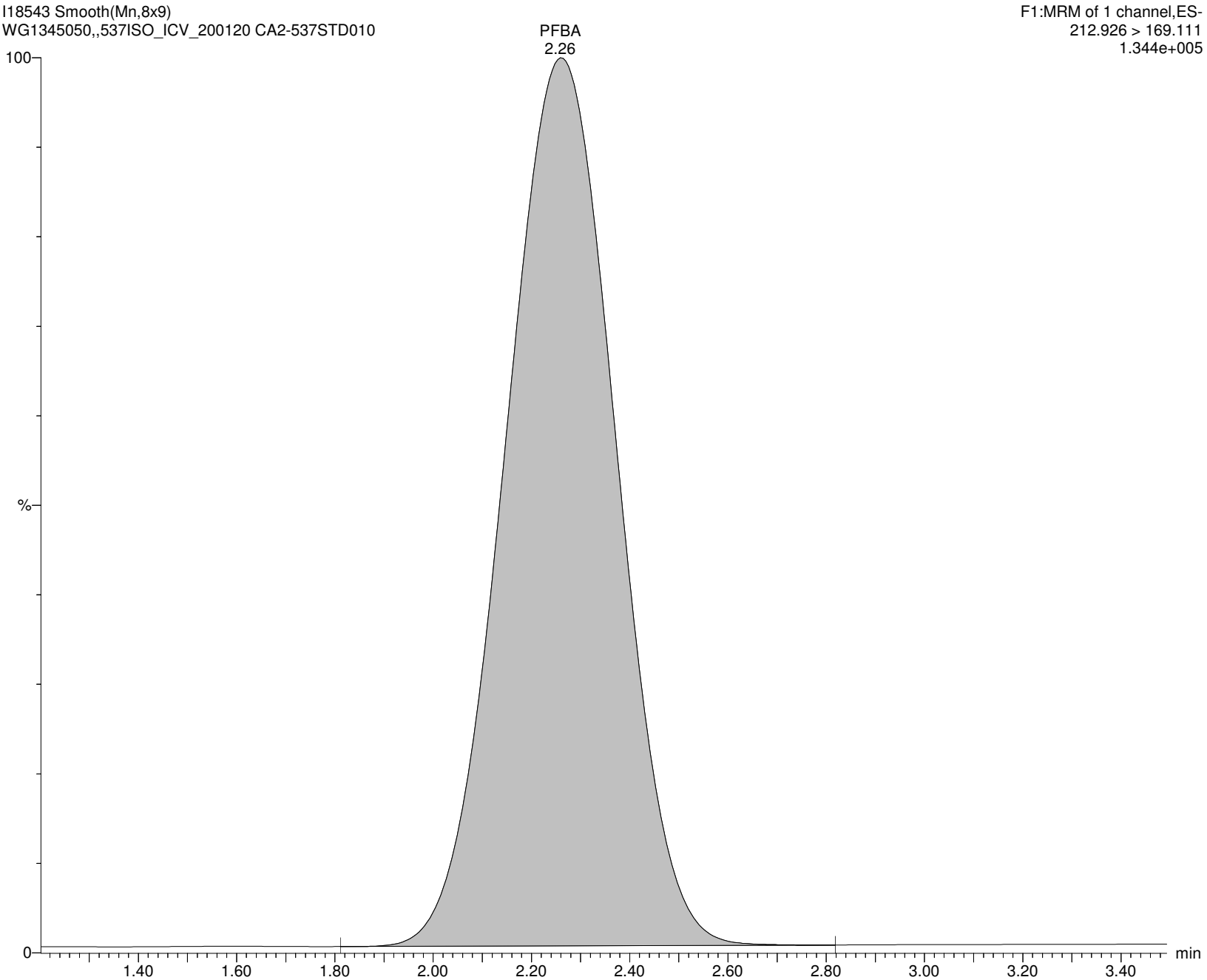

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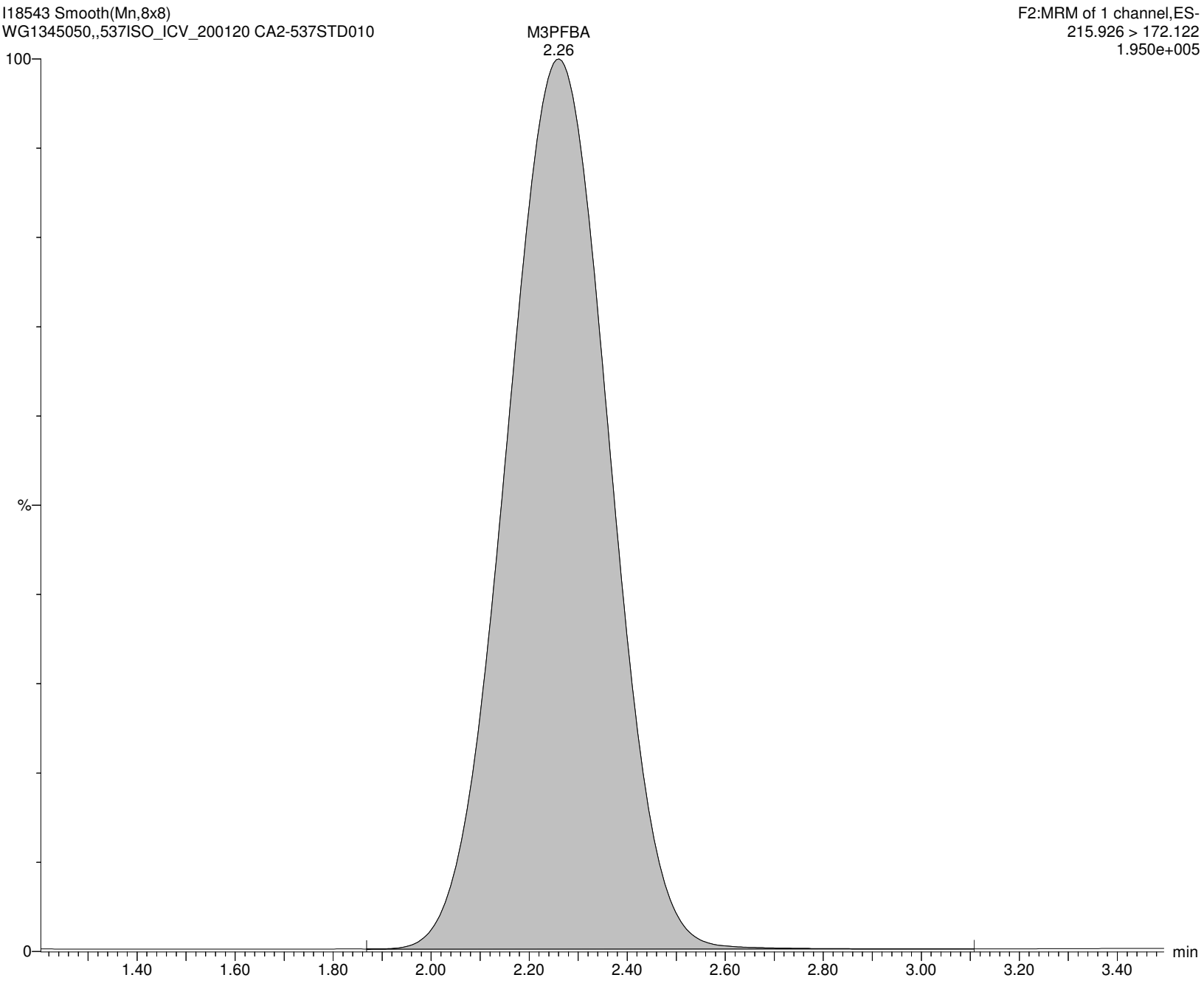

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:22:22 Eastern Standard Time
Printed: Friday, February 28, 2020 09:23:05 Eastern Standard Time

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Date: 27-Feb-2020
Time: 18:59:36
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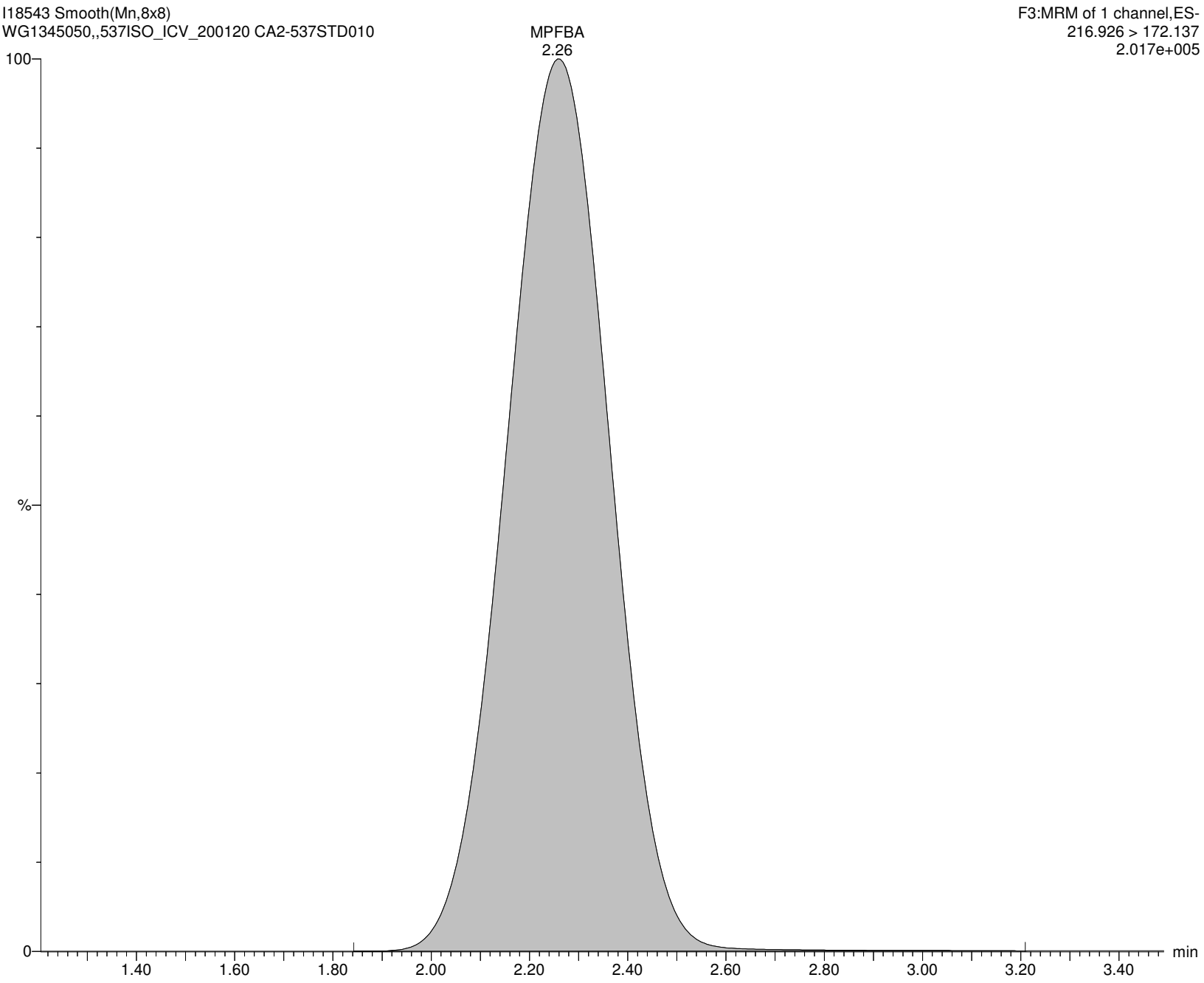

all concentration units in (ng/mL)

Alpha Analytical Inc.
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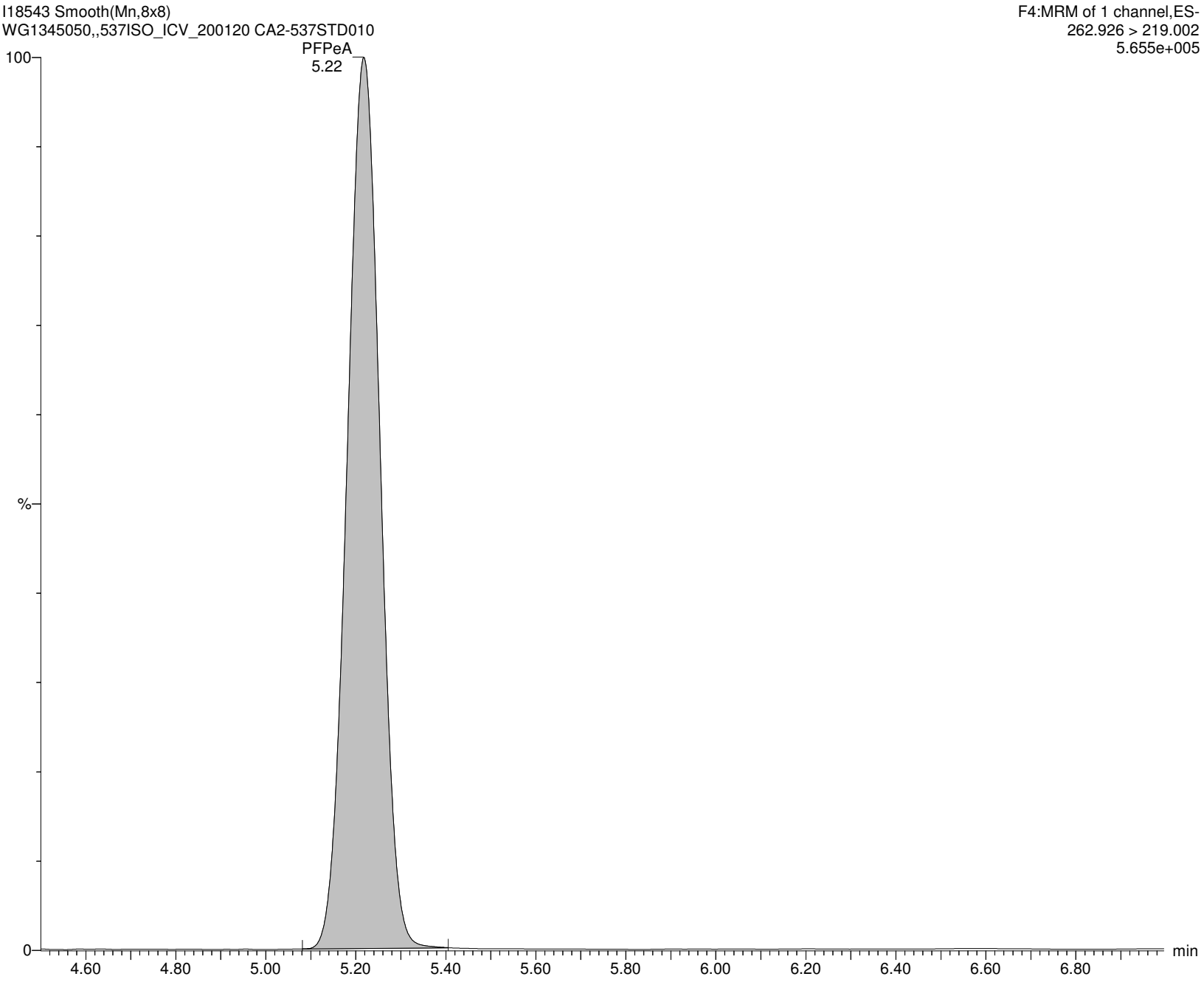

all concentration units in (ng/mL)

Alpha Analytical Inc.
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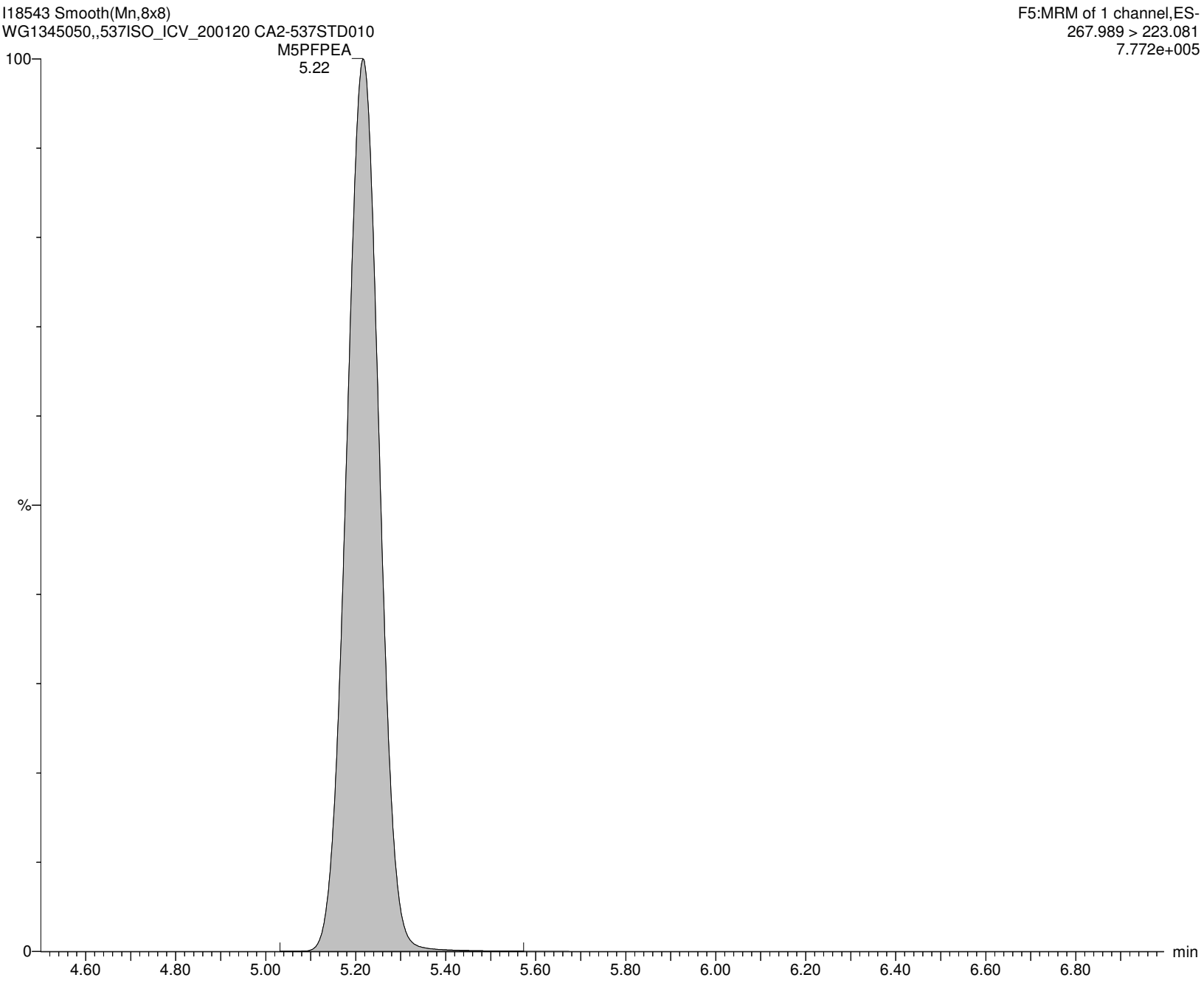

all concentration units in (ng/mL)

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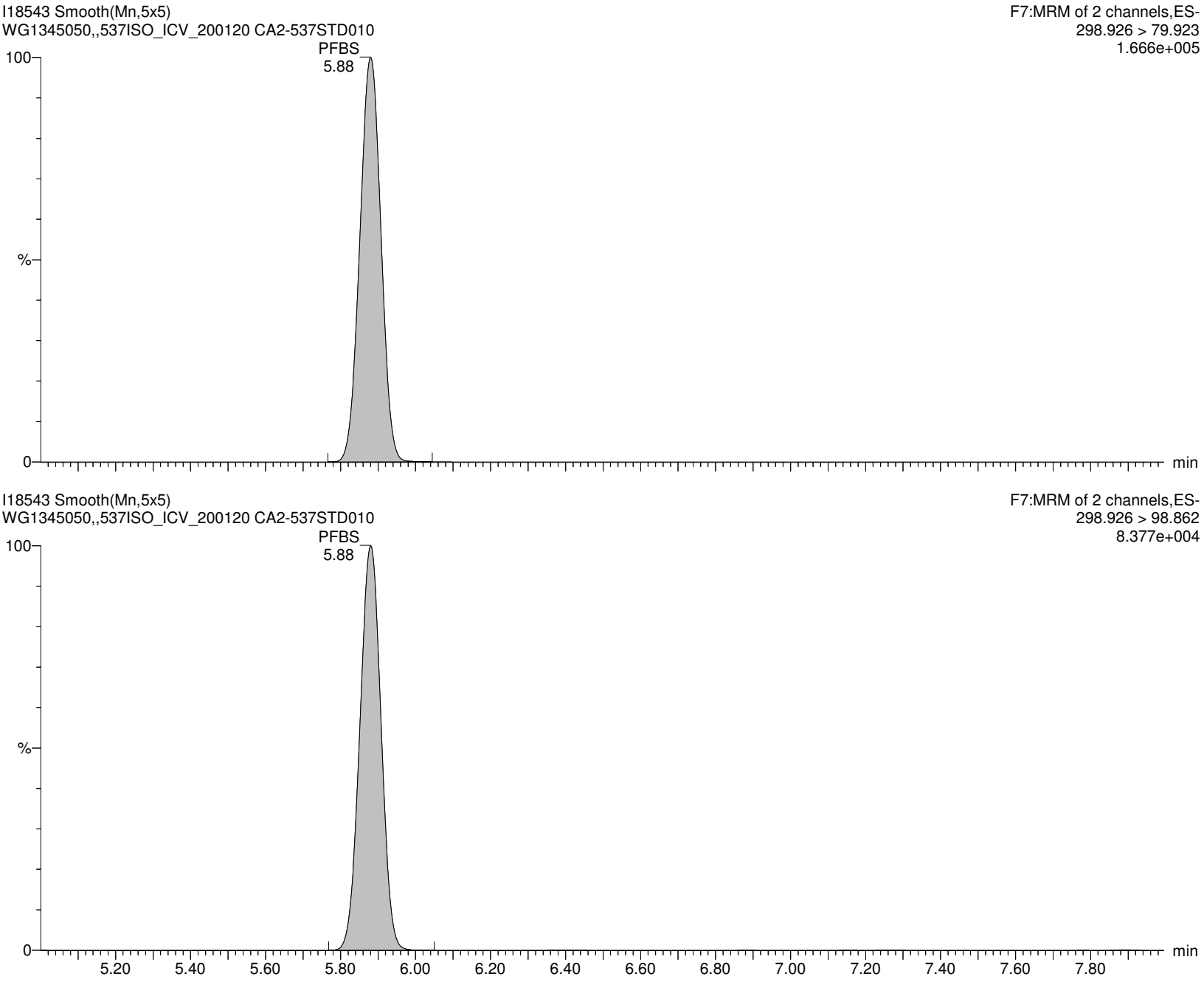

all concentration units in (ng/mL)

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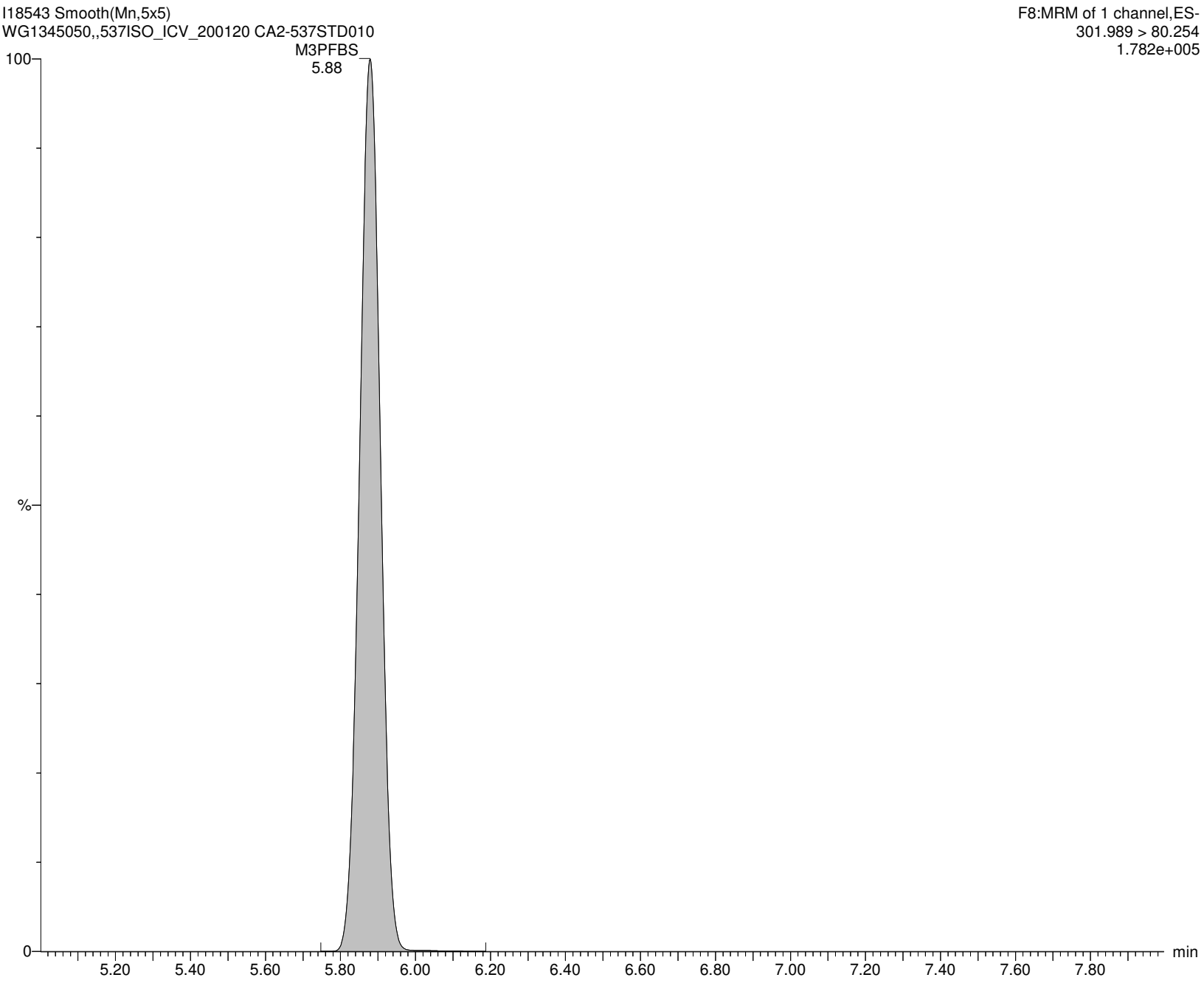

all concentration units in (ng/mL)

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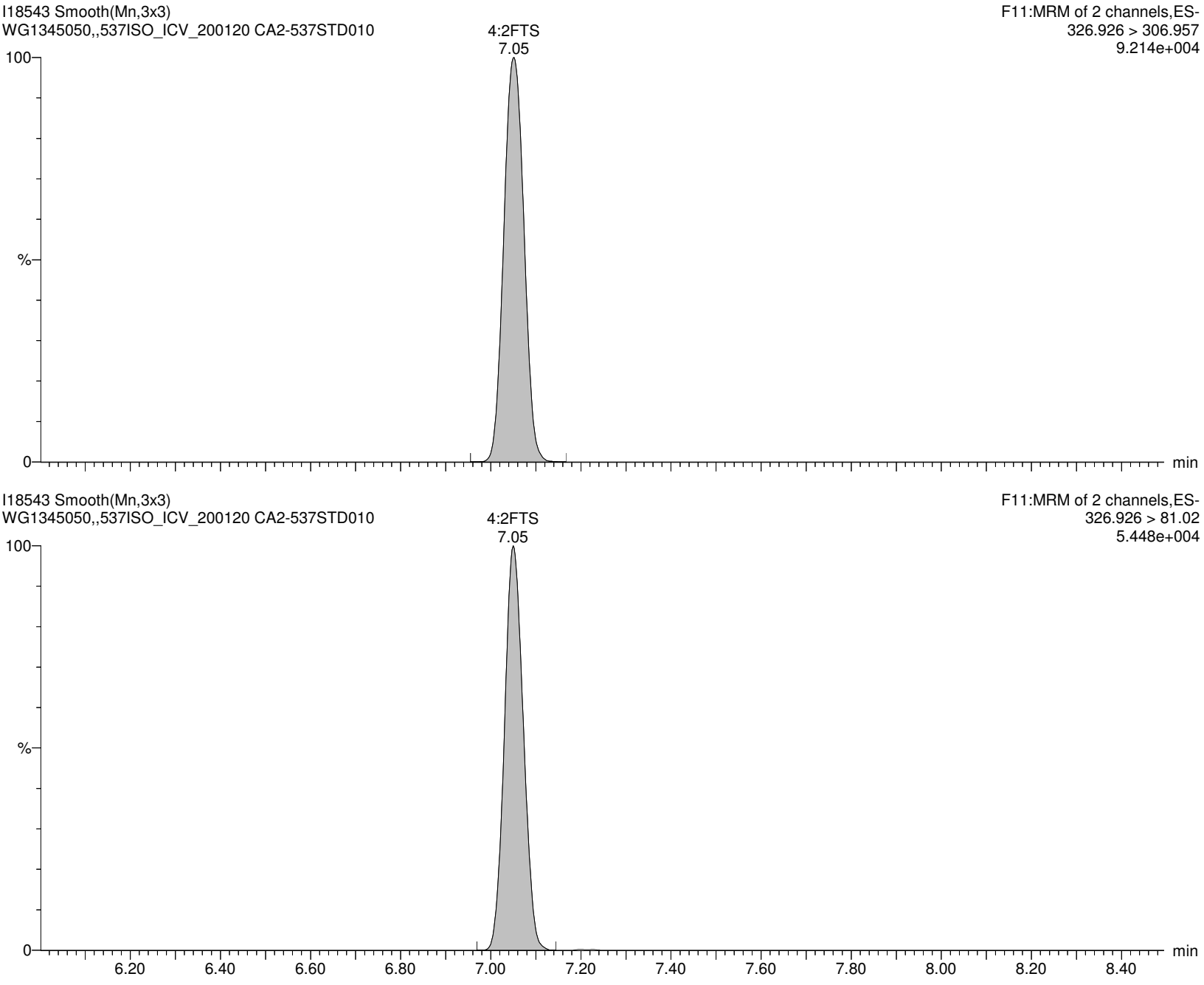
4:2FTS



all concentration units in (ng/mL)

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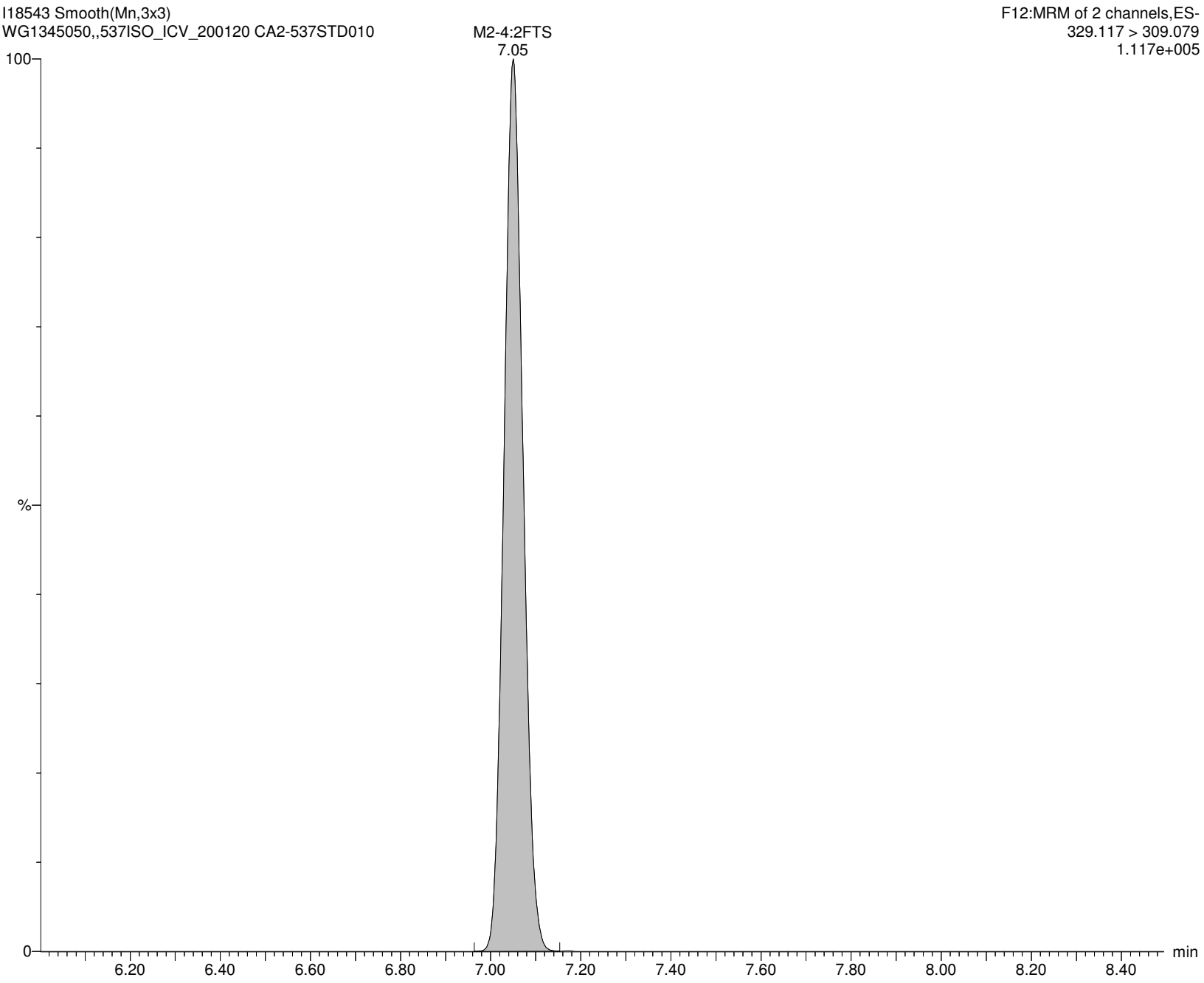
M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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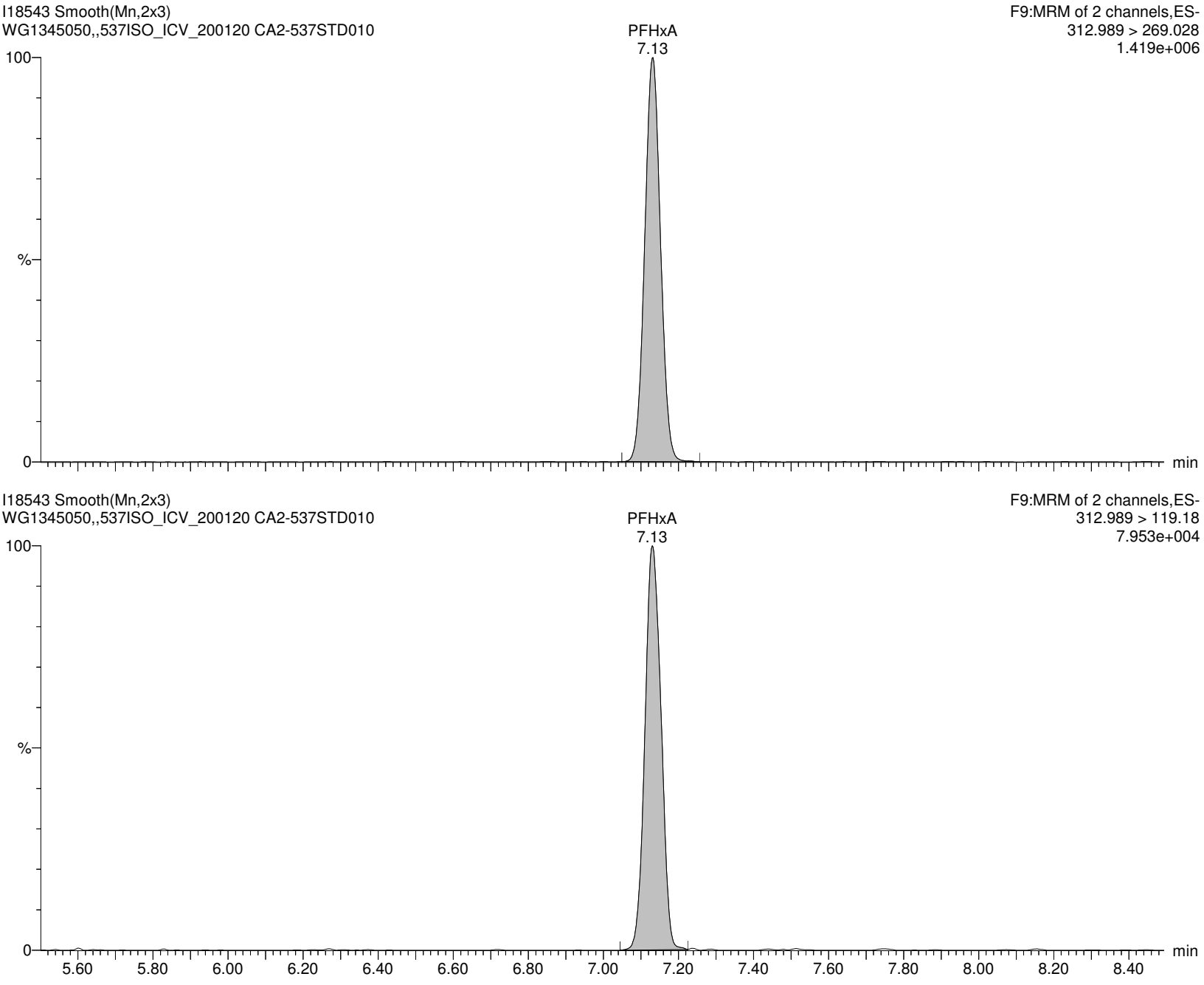

all concentration units in (ng/mL)

Alpha Analytical Inc.
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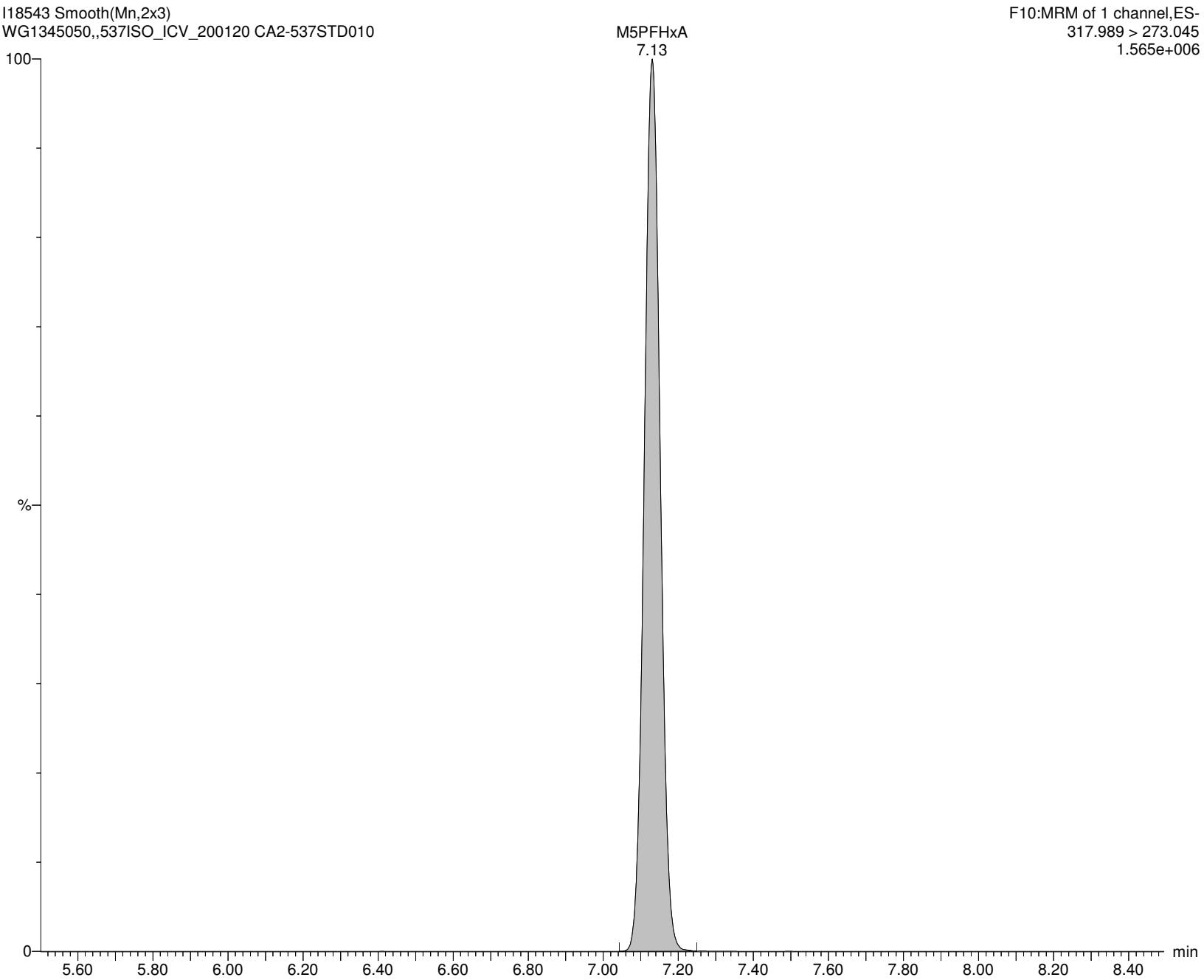

all concentration units in (ng/mL)

Alpha Analytical Inc.
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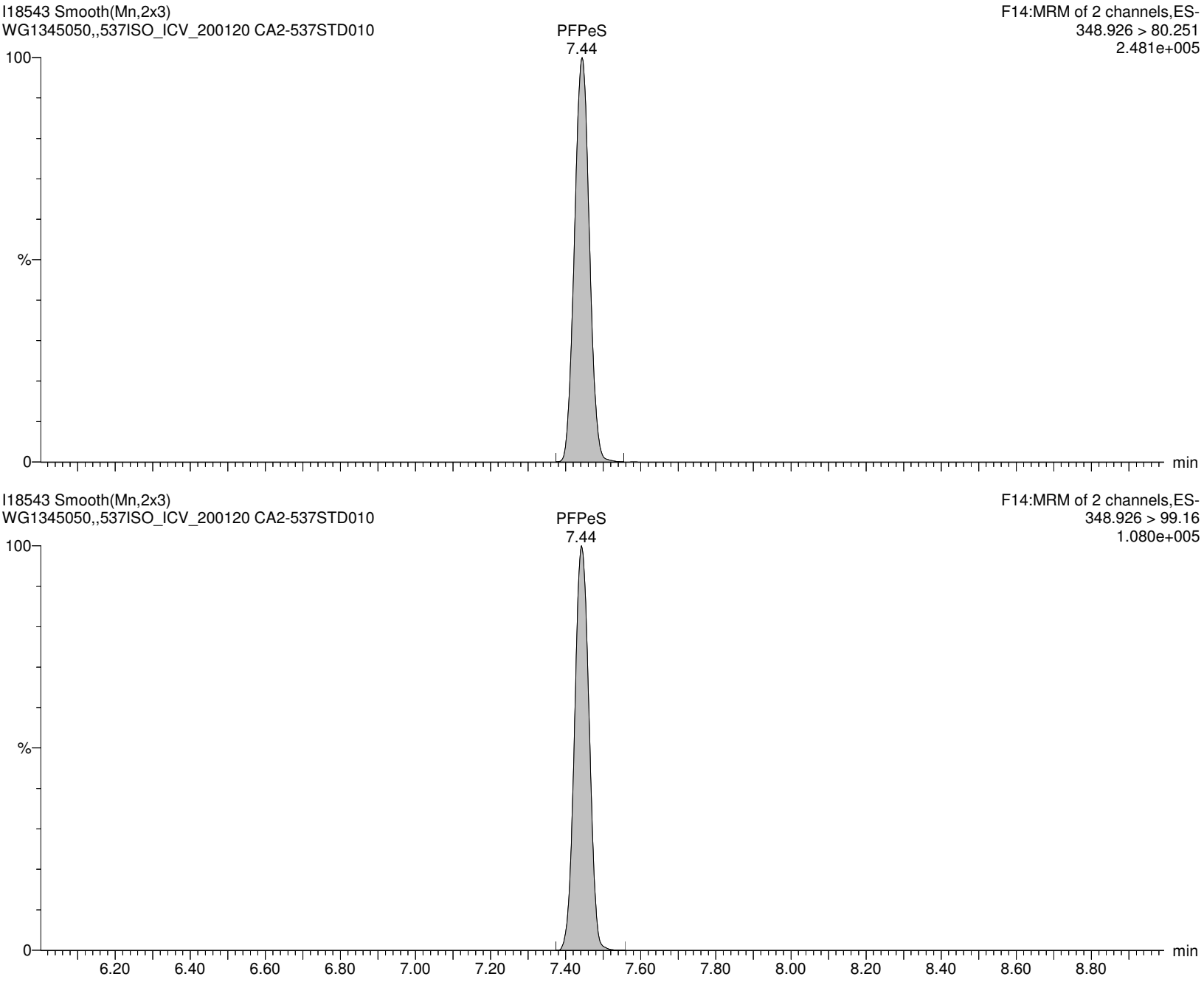

all concentration units in (ng/mL)

Alpha Analytical Inc.
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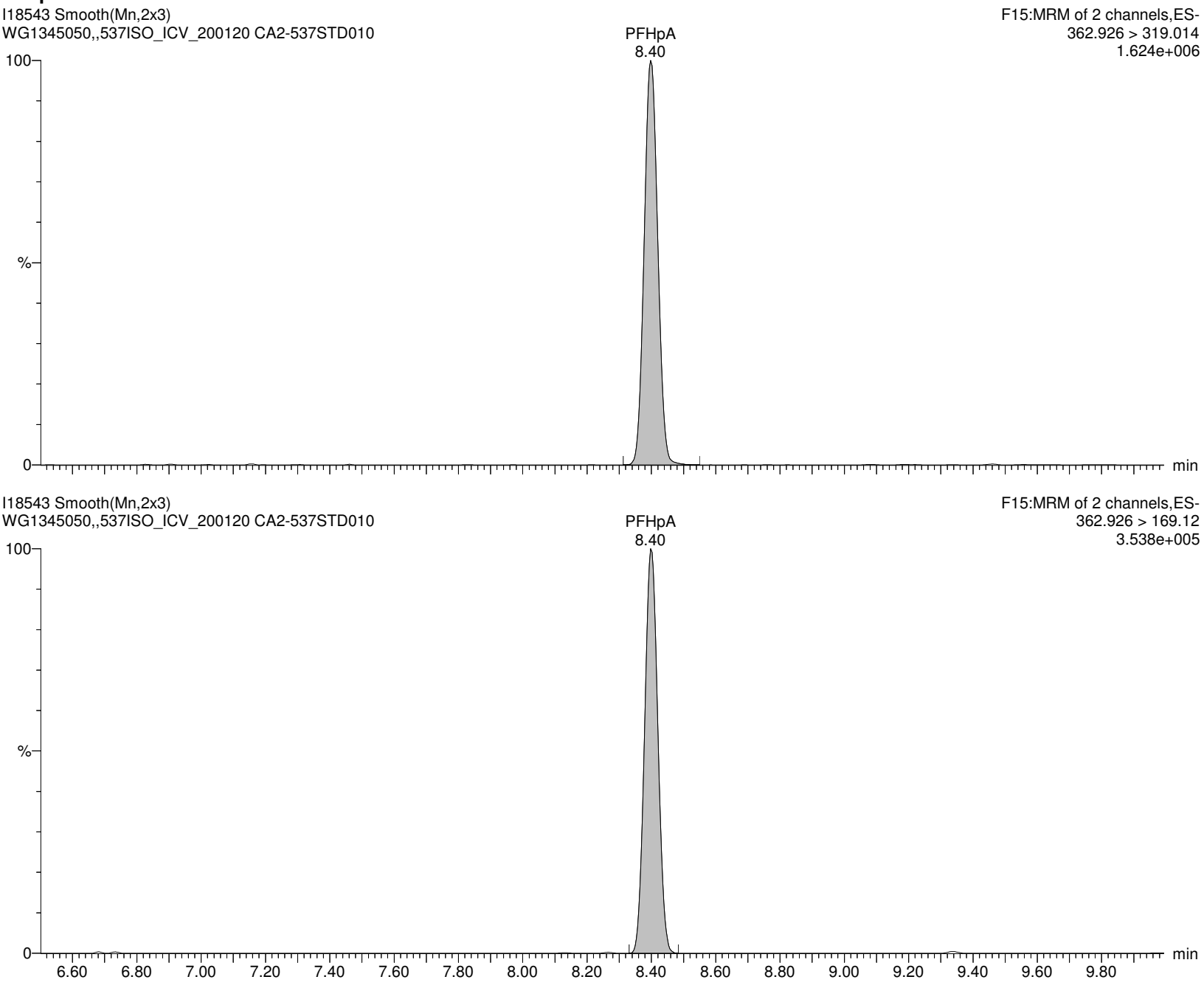

all concentration units in (ng/mL)

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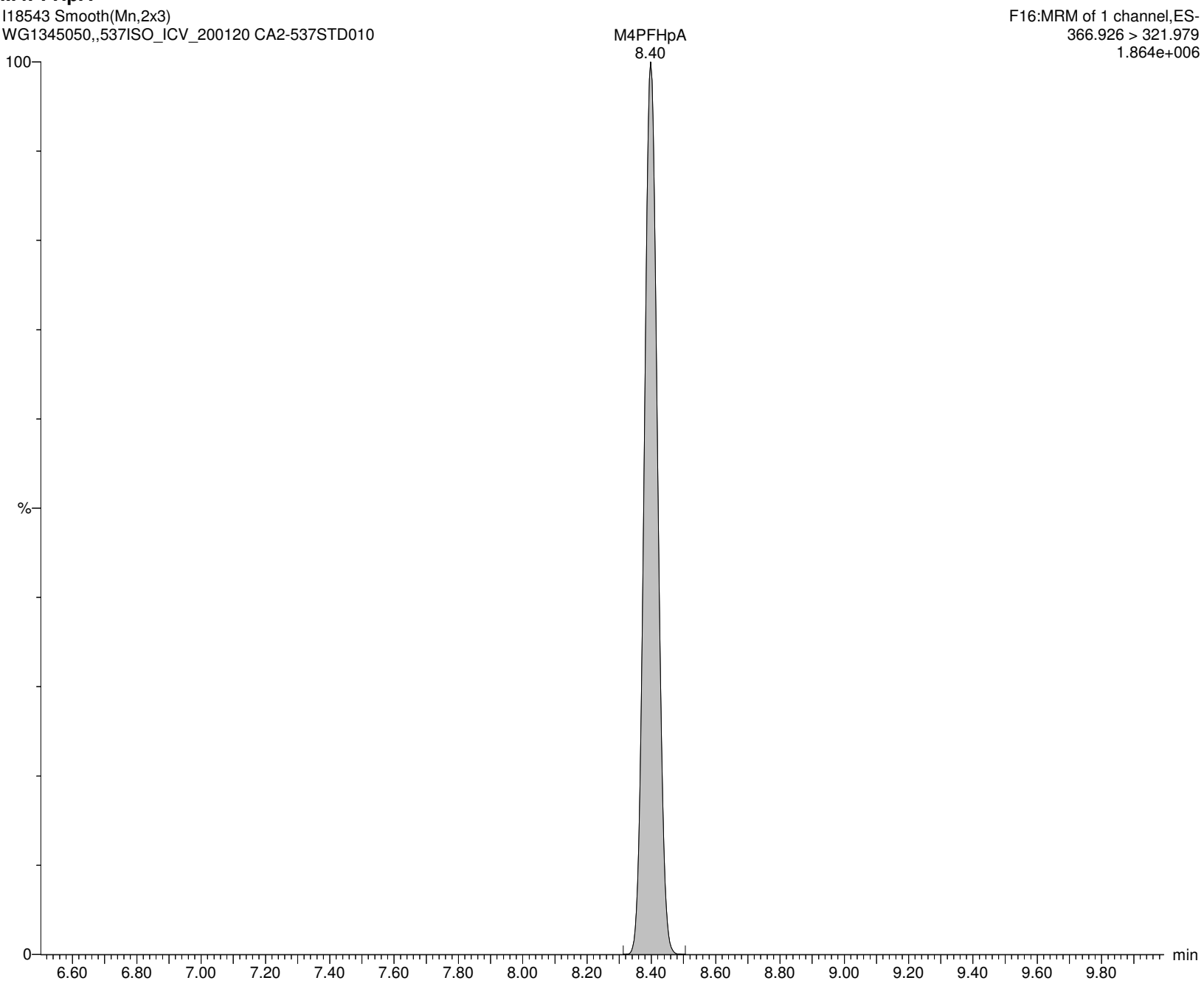

all concentration units in (ng/mL)

Alpha Analytical Inc.
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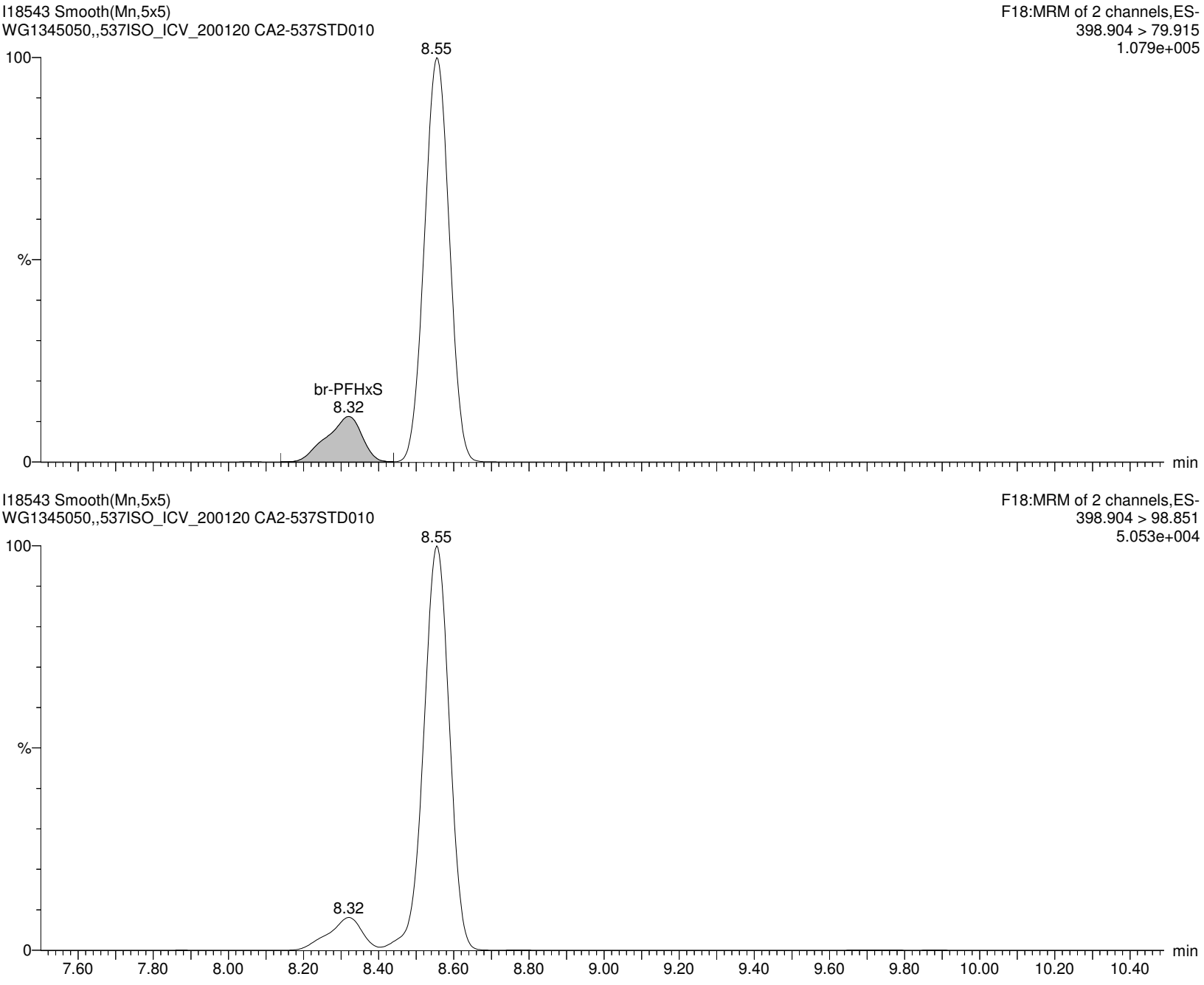

all concentration units in (ng/mL)

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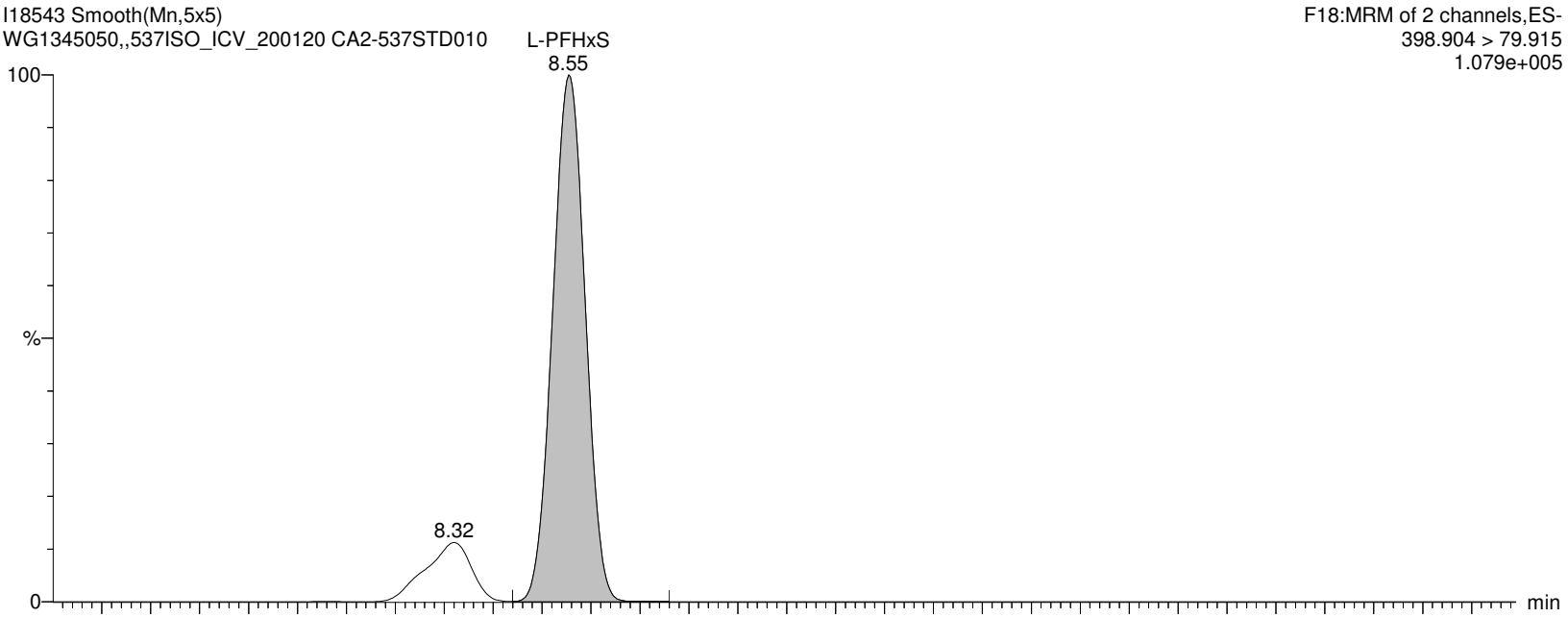

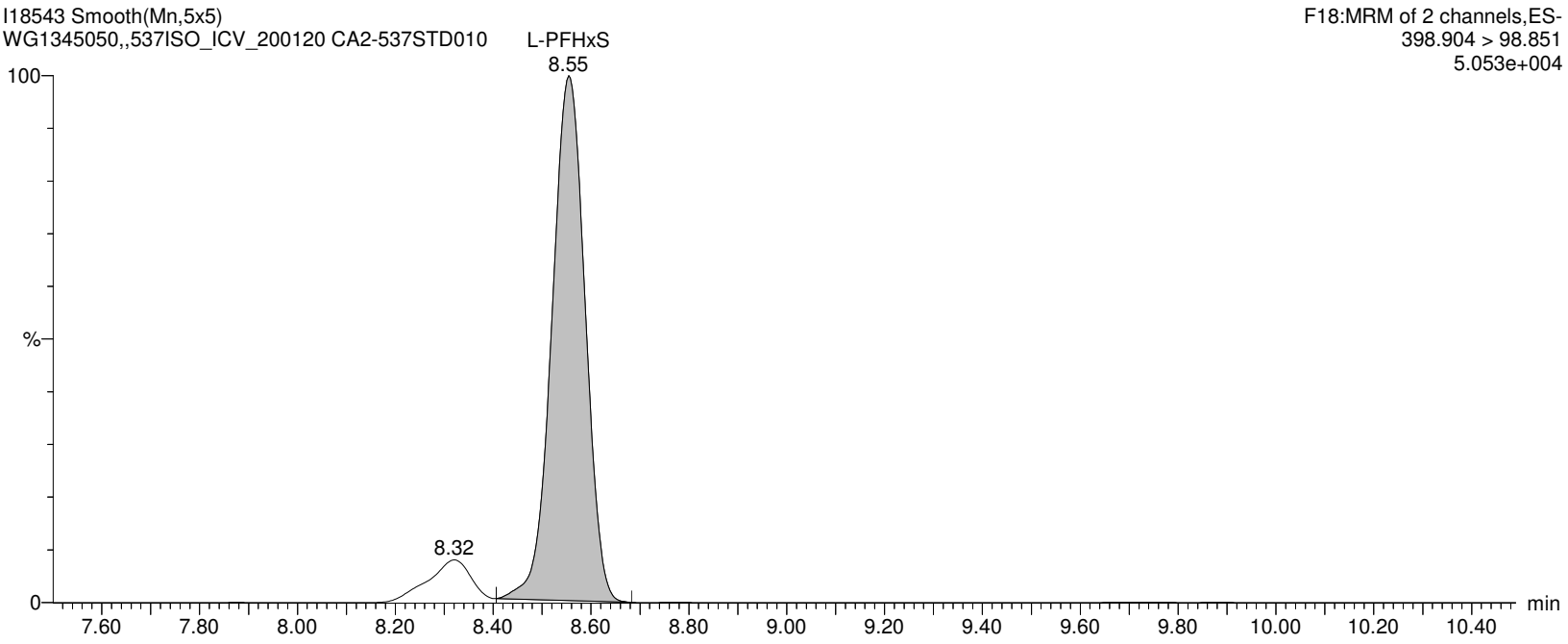

all concentration units in (ng/mL)

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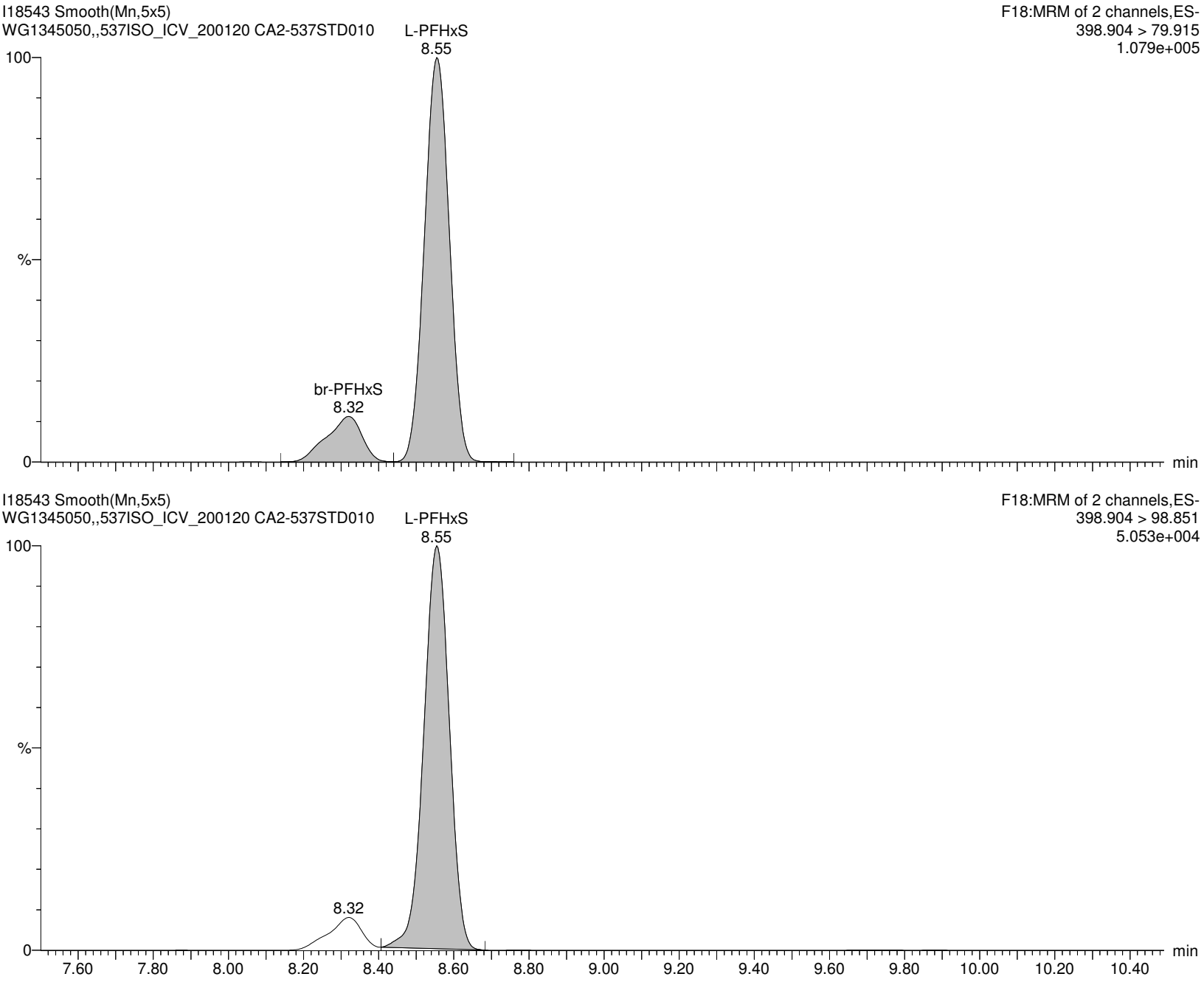
PFHxS



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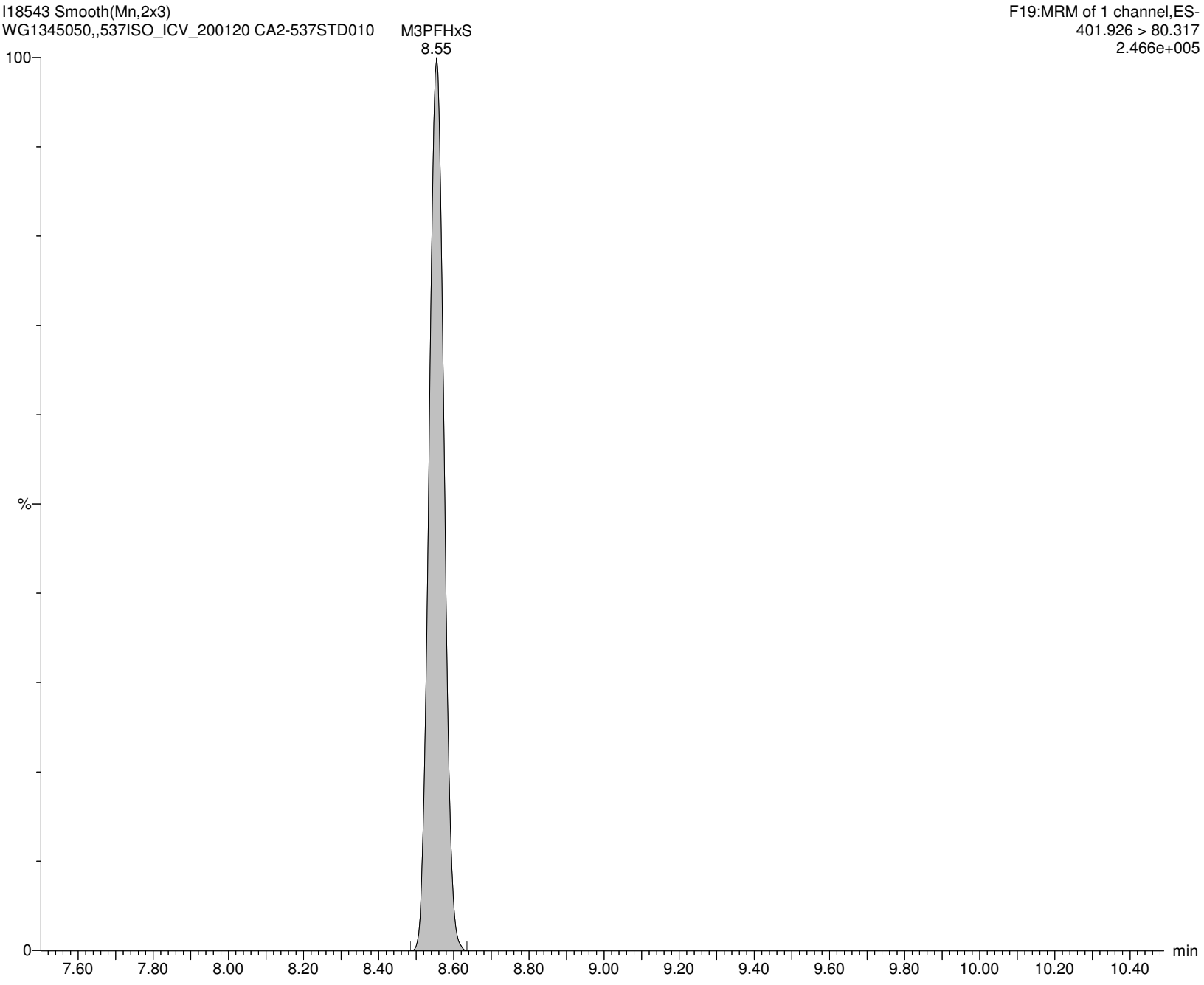

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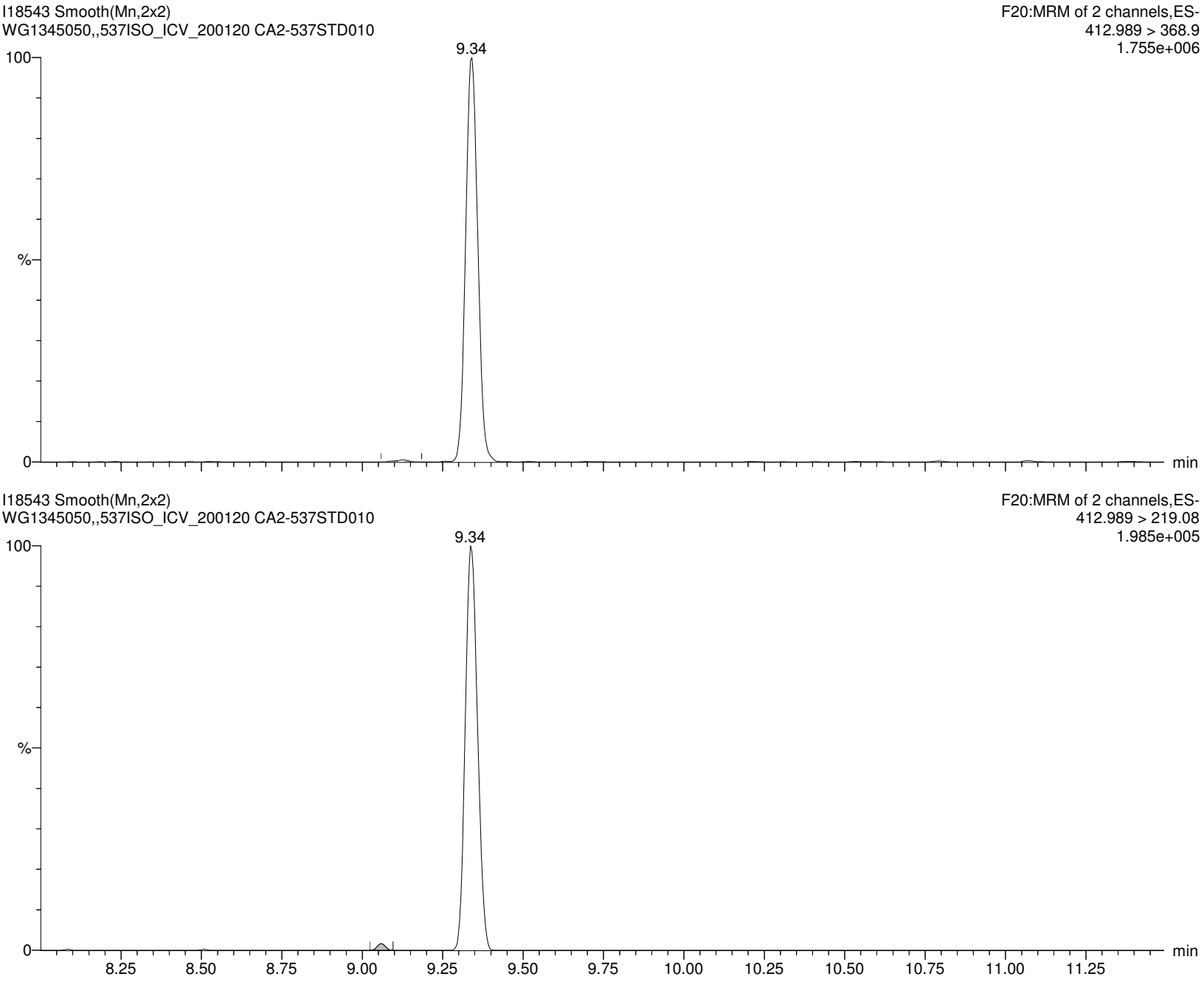

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Vial: 1:B,7
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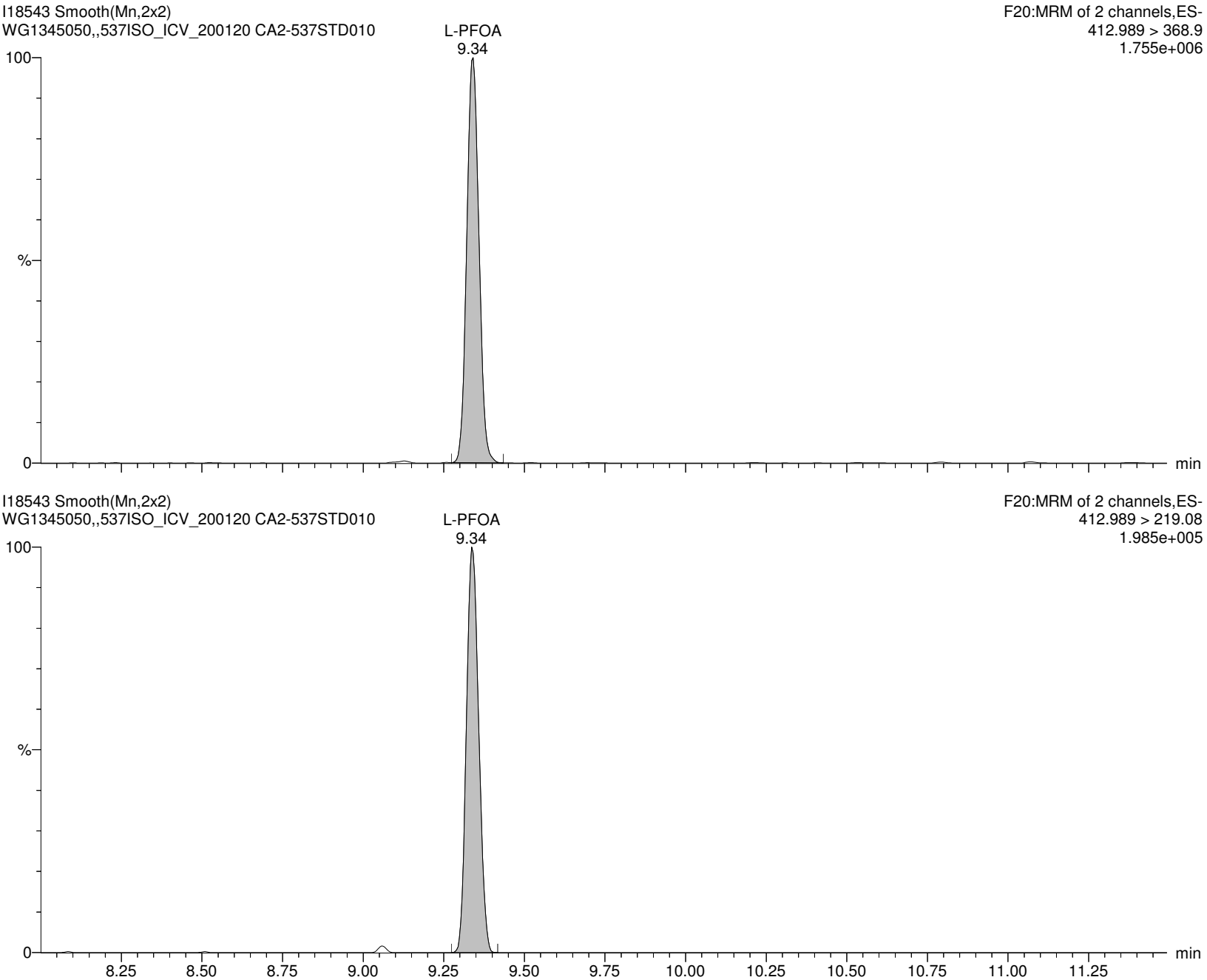

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICV.qld
Last Altered: Friday, February 28, 2020 09:22:22 Eastern Standard Time
Printed: Friday, February 28, 2020 09:23:05 Eastern Standard Time

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Date: 27-Feb-2020
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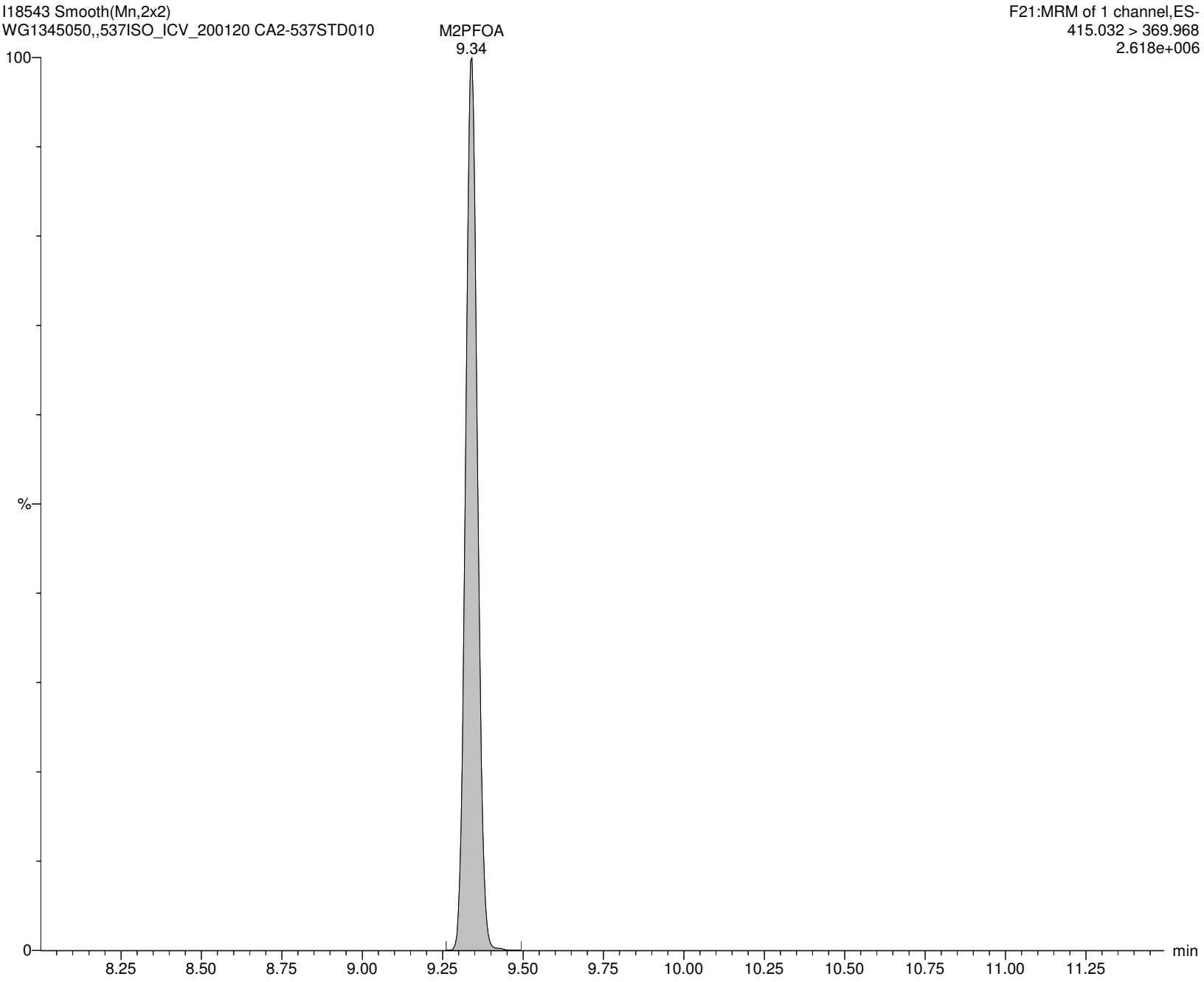

all concentration units in (ng/mL)

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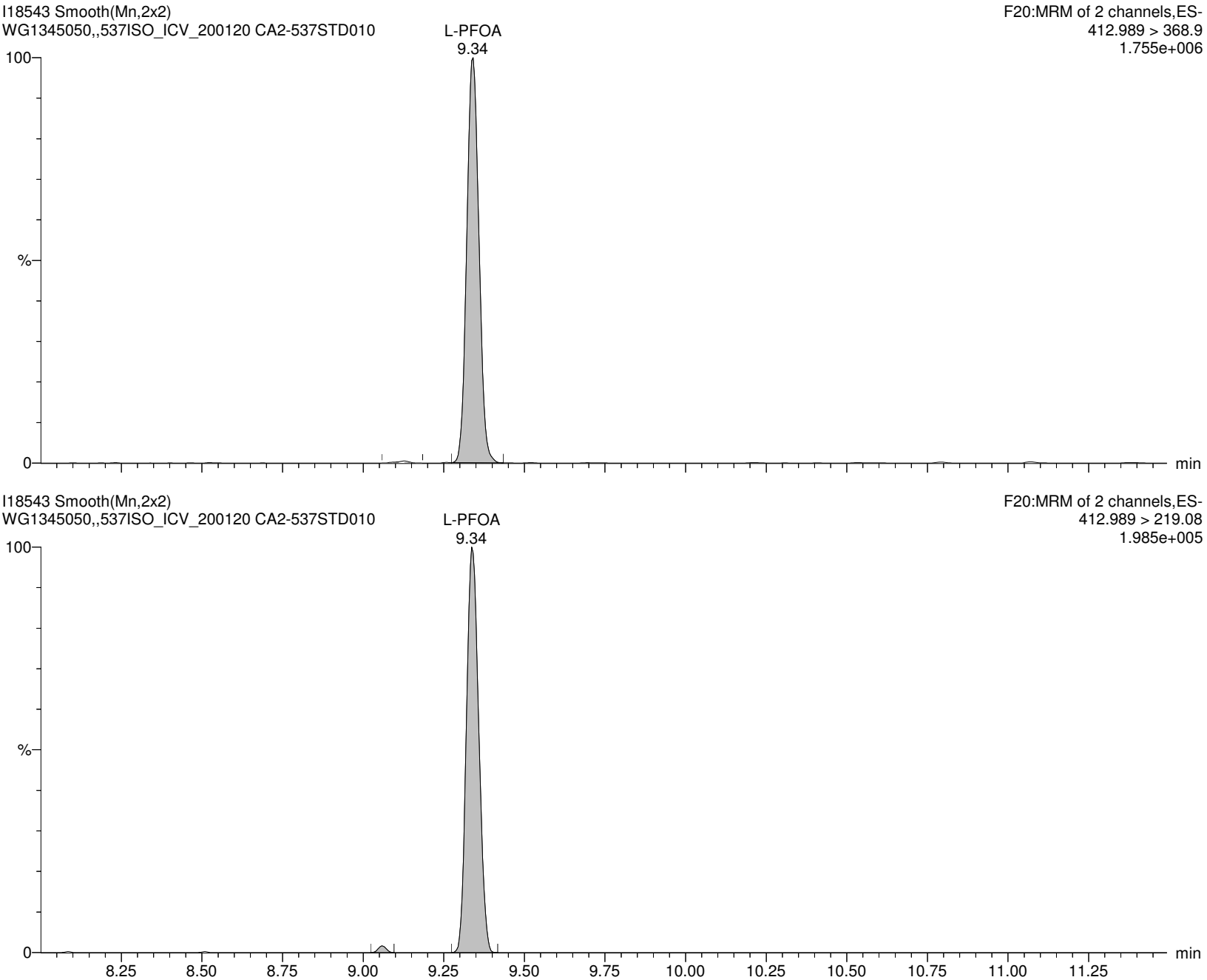

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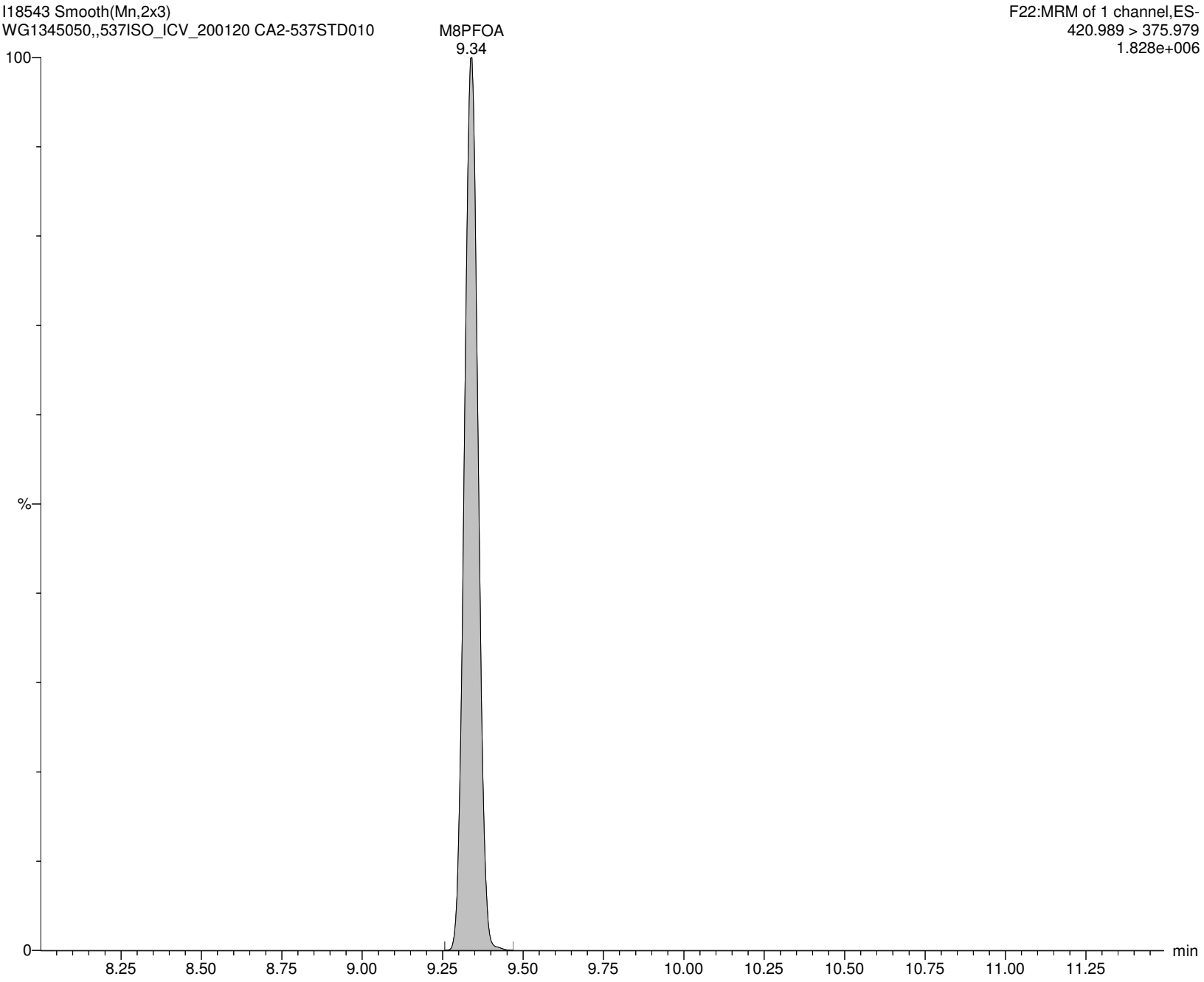

all concentration units in (ng/mL)

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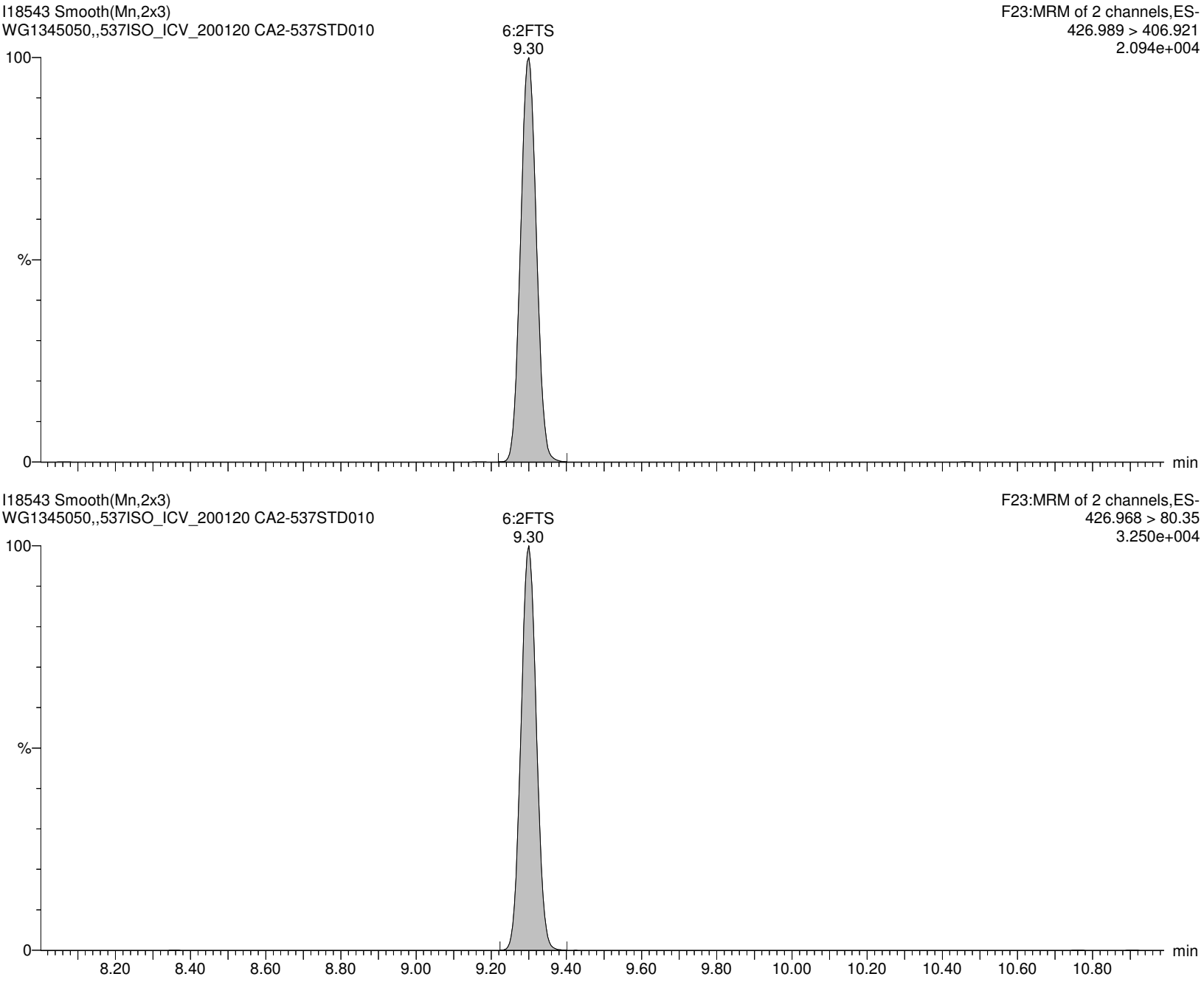

all concentration units in (ng/mL)

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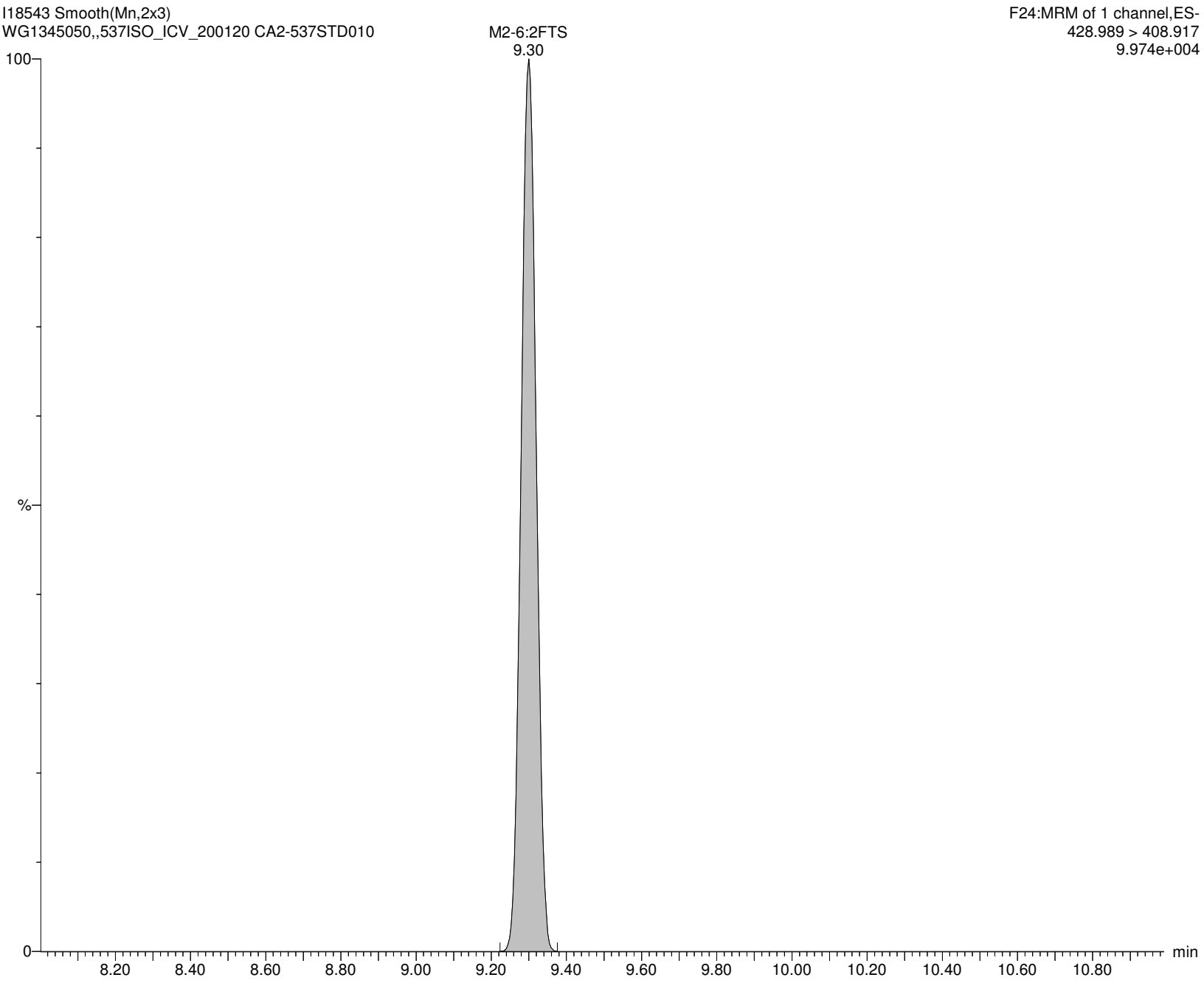

all concentration units in (ng/mL)

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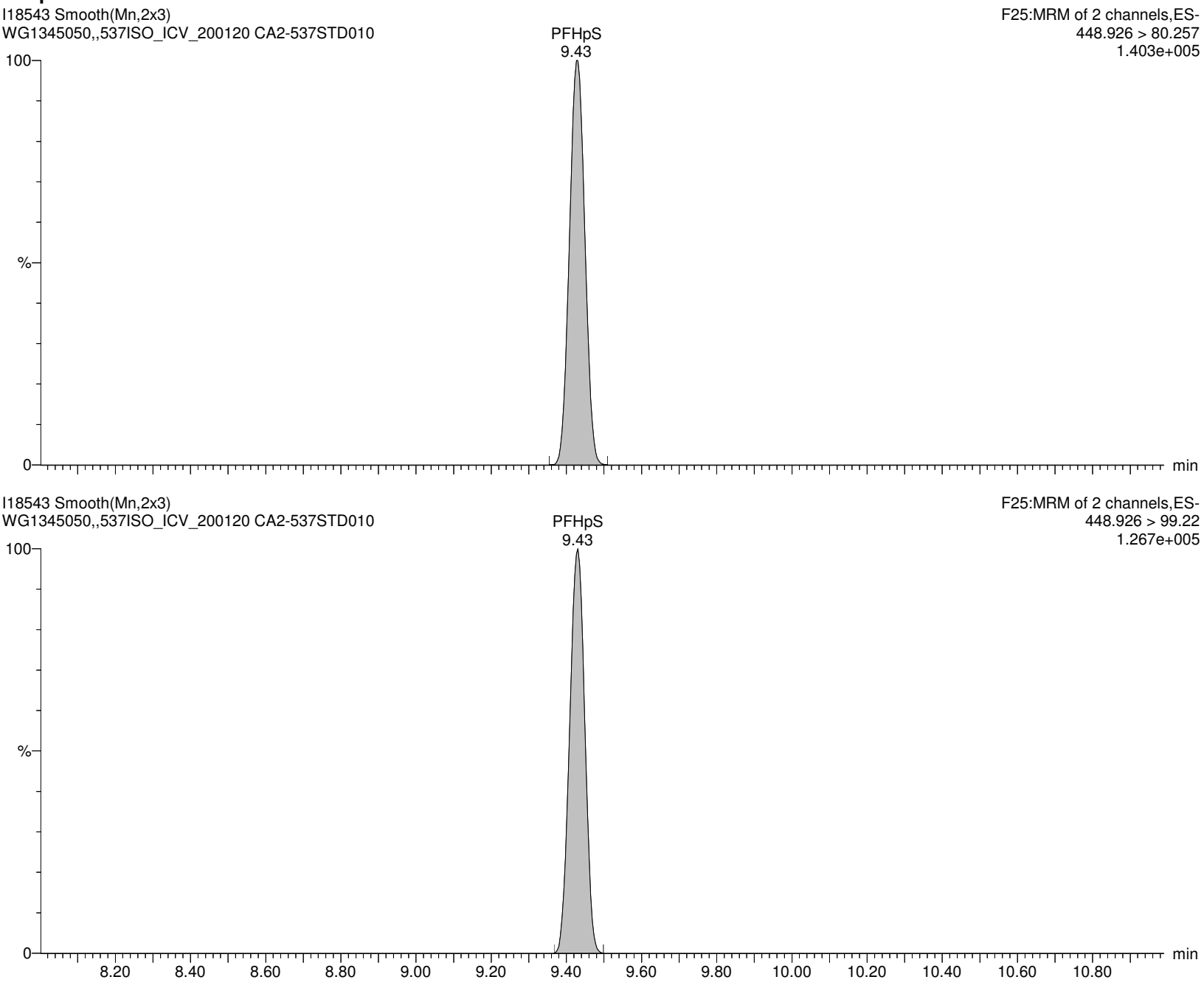

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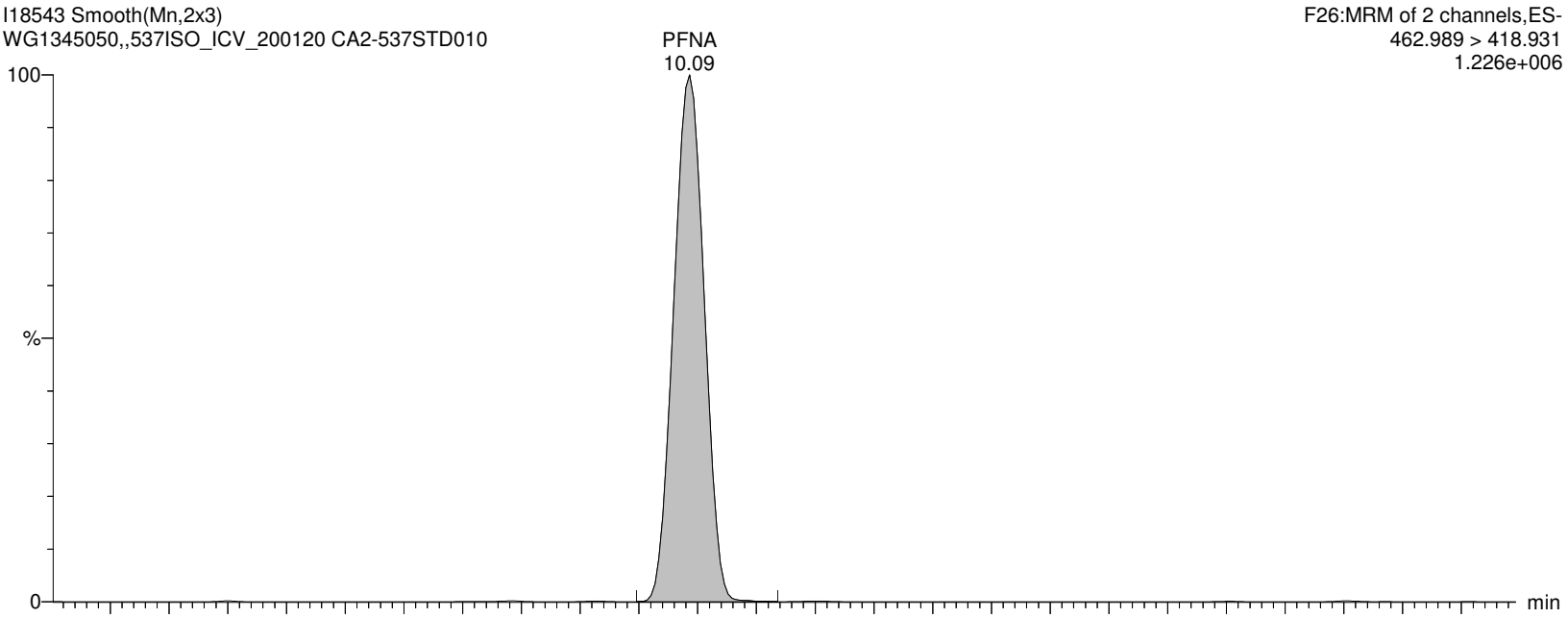

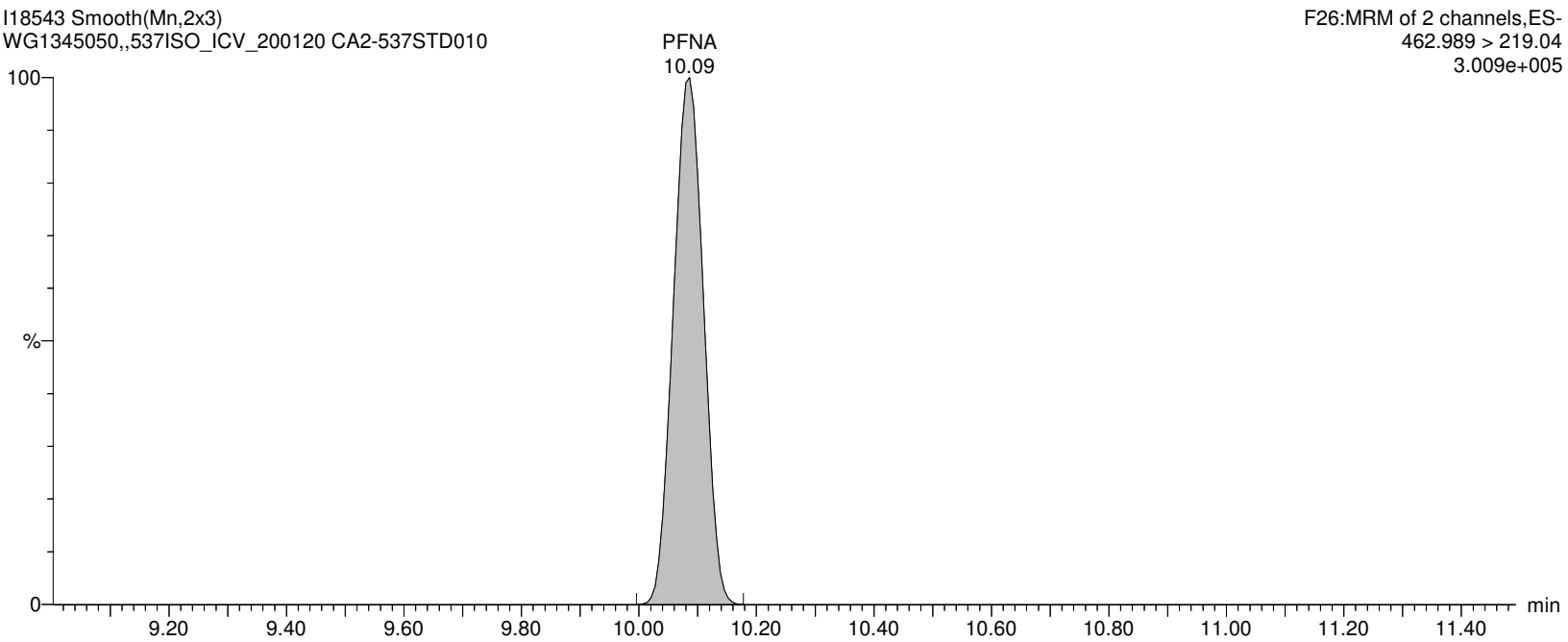

all concentration units in (ng/mL)

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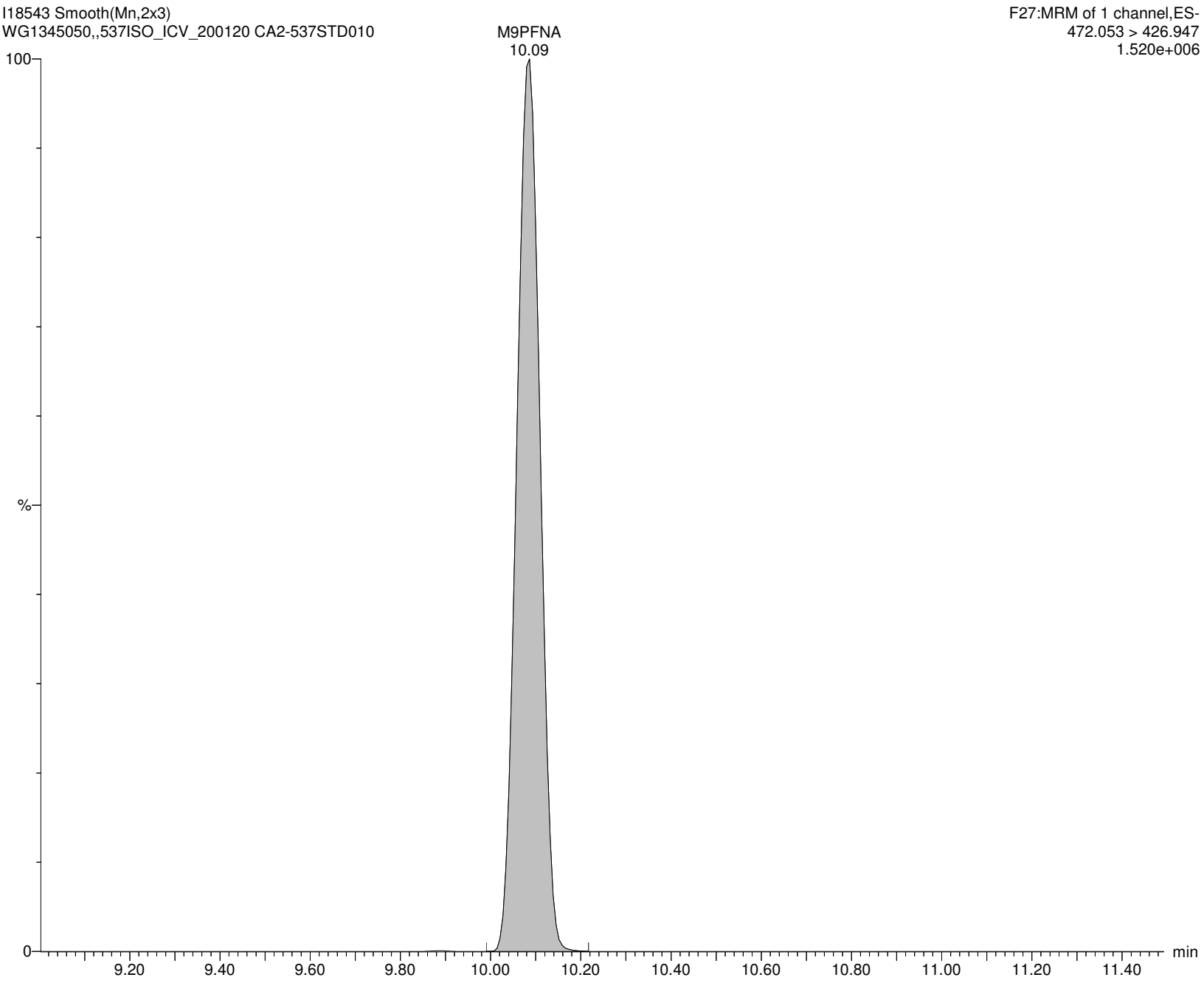

all concentration units in (ng/mL)

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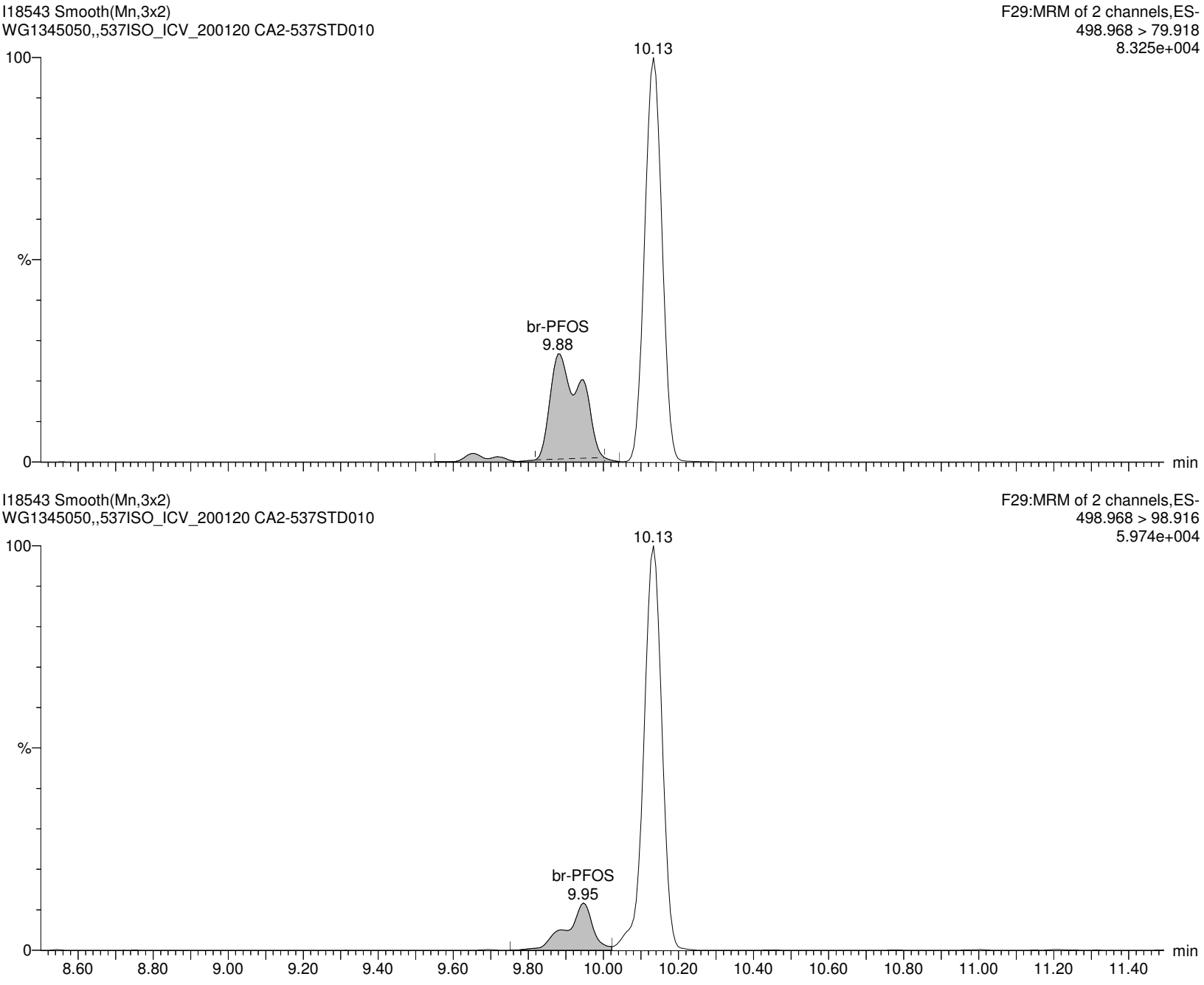

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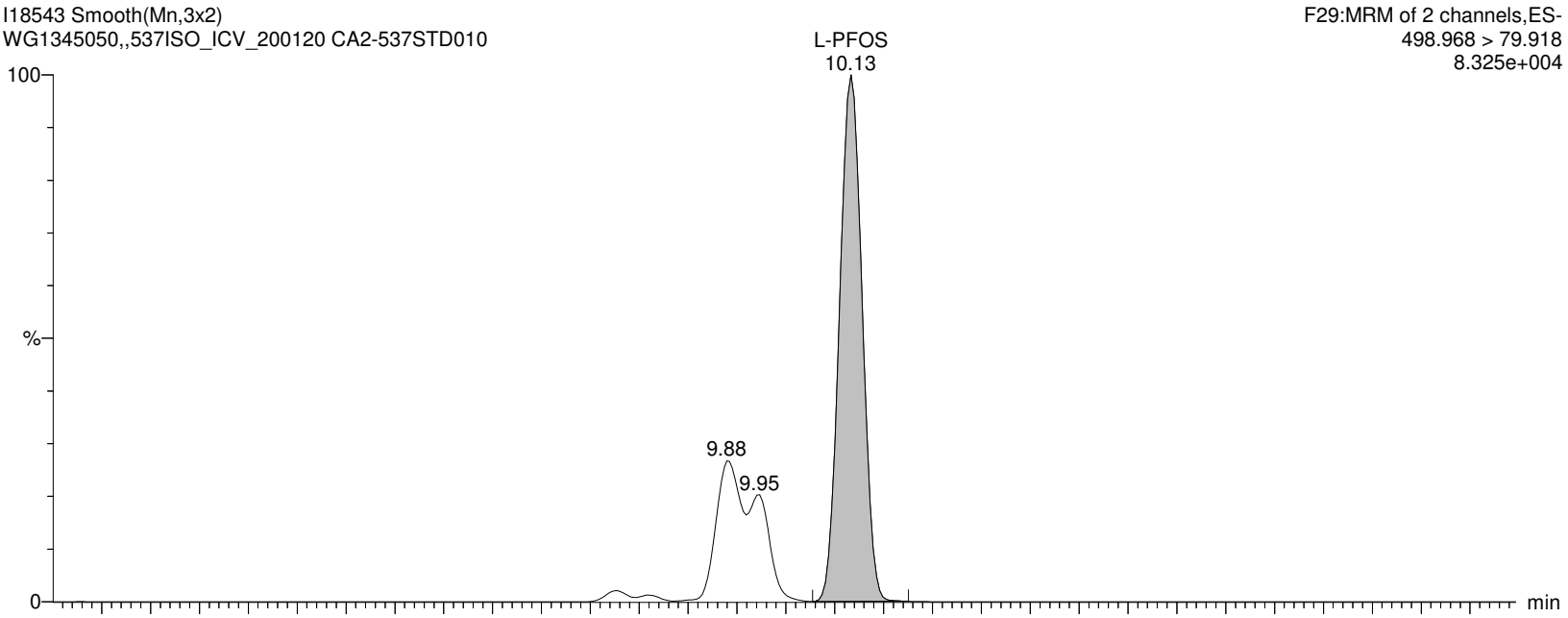

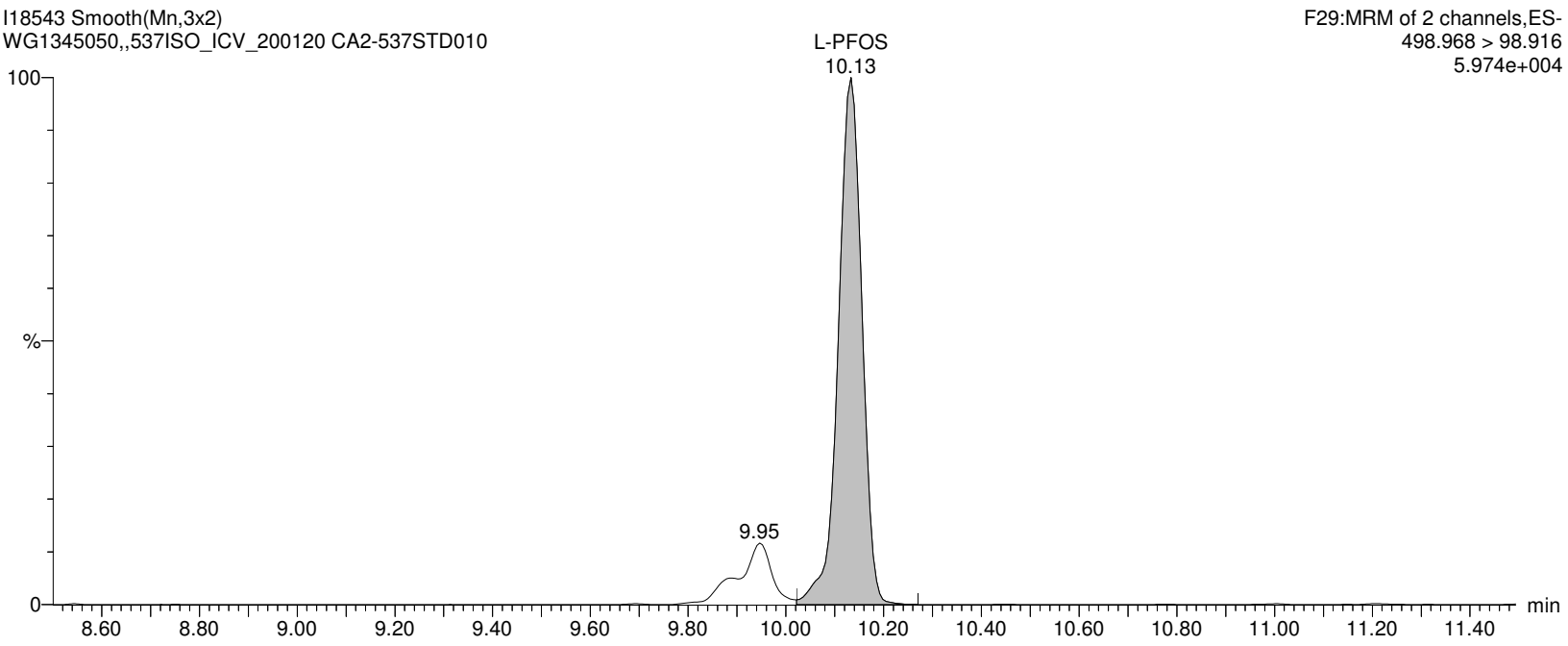

all concentration units in (ng/mL)

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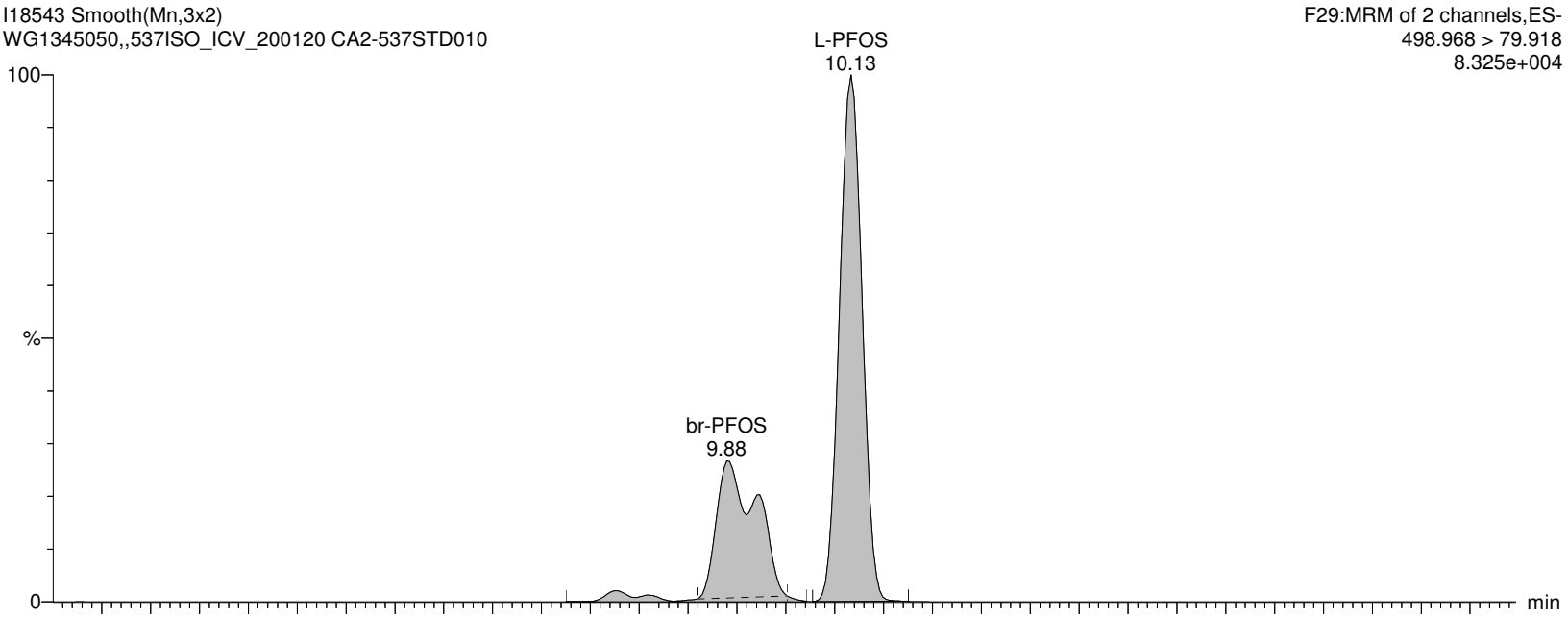

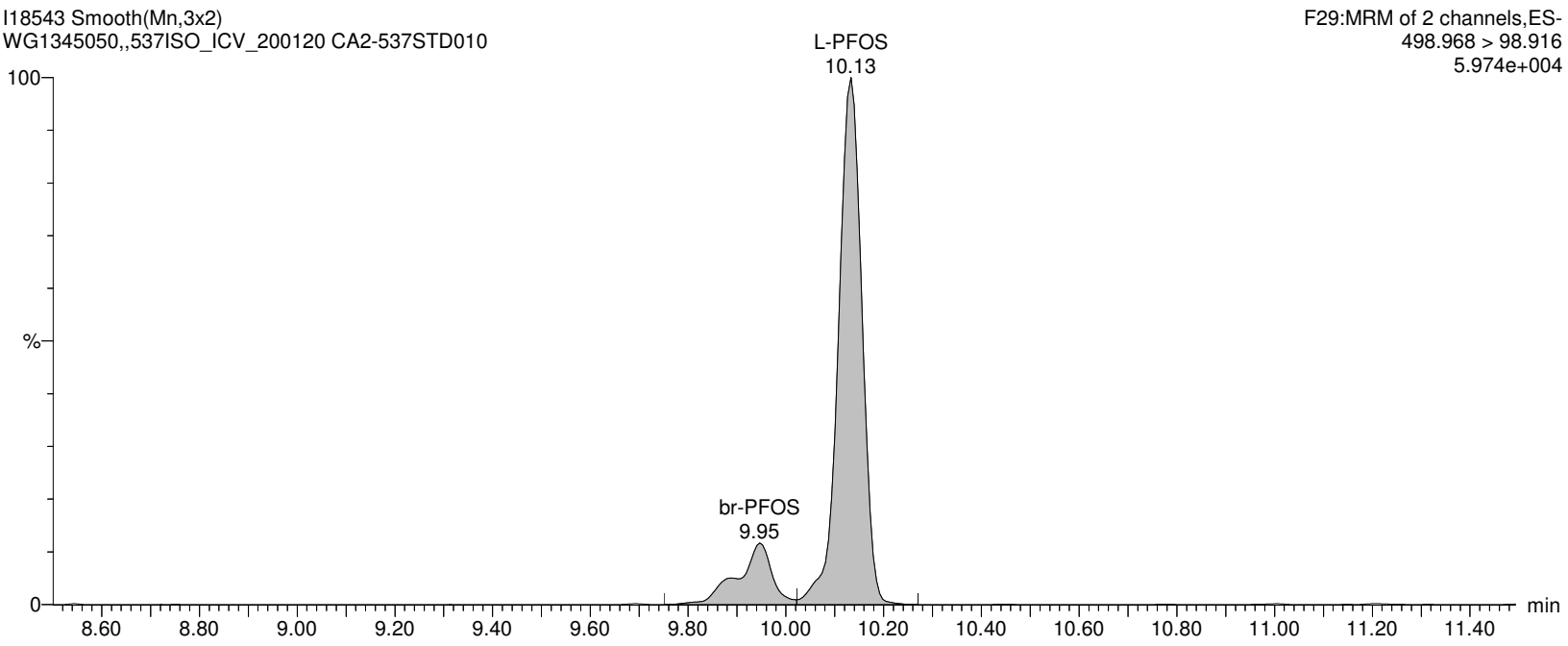

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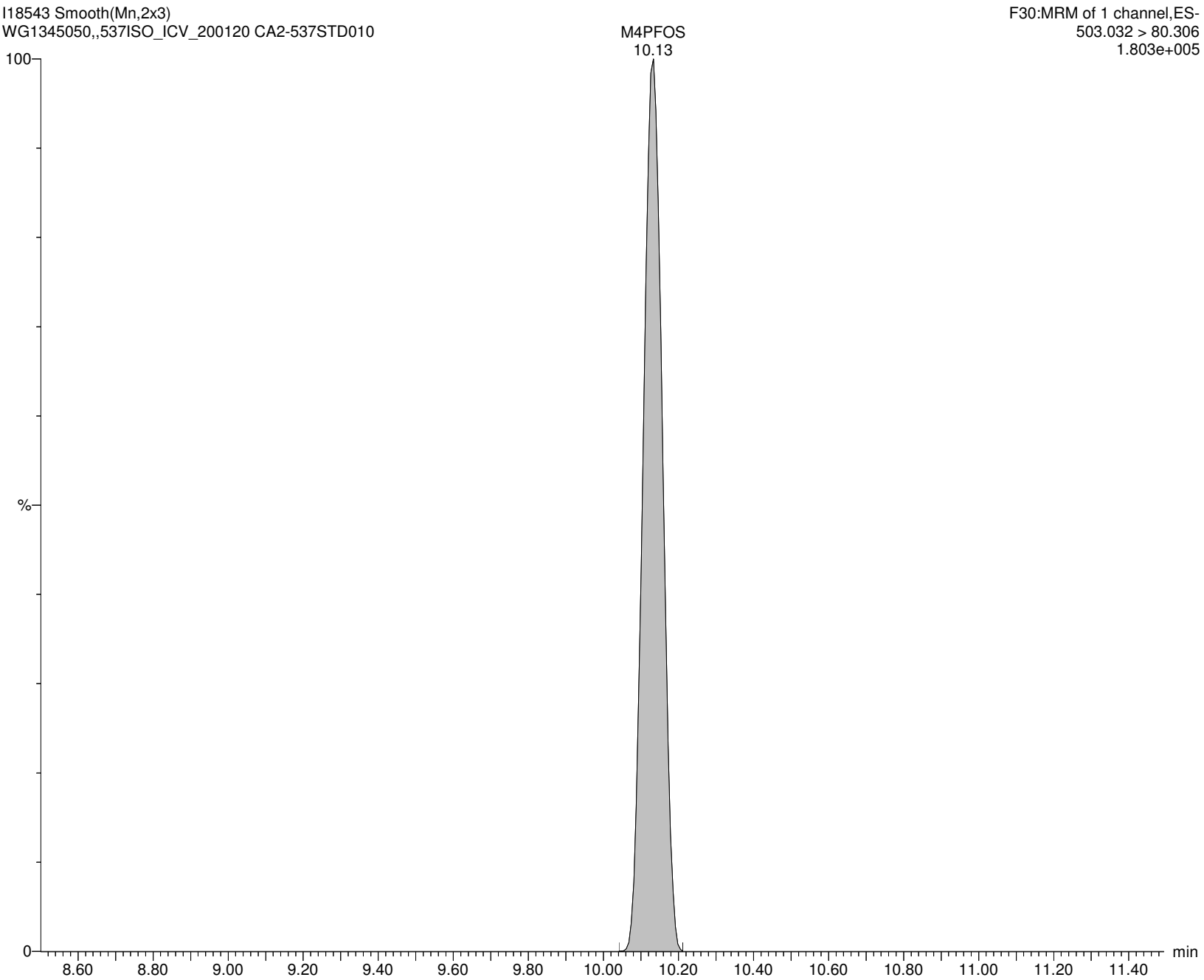

all concentration units in (ng/mL)

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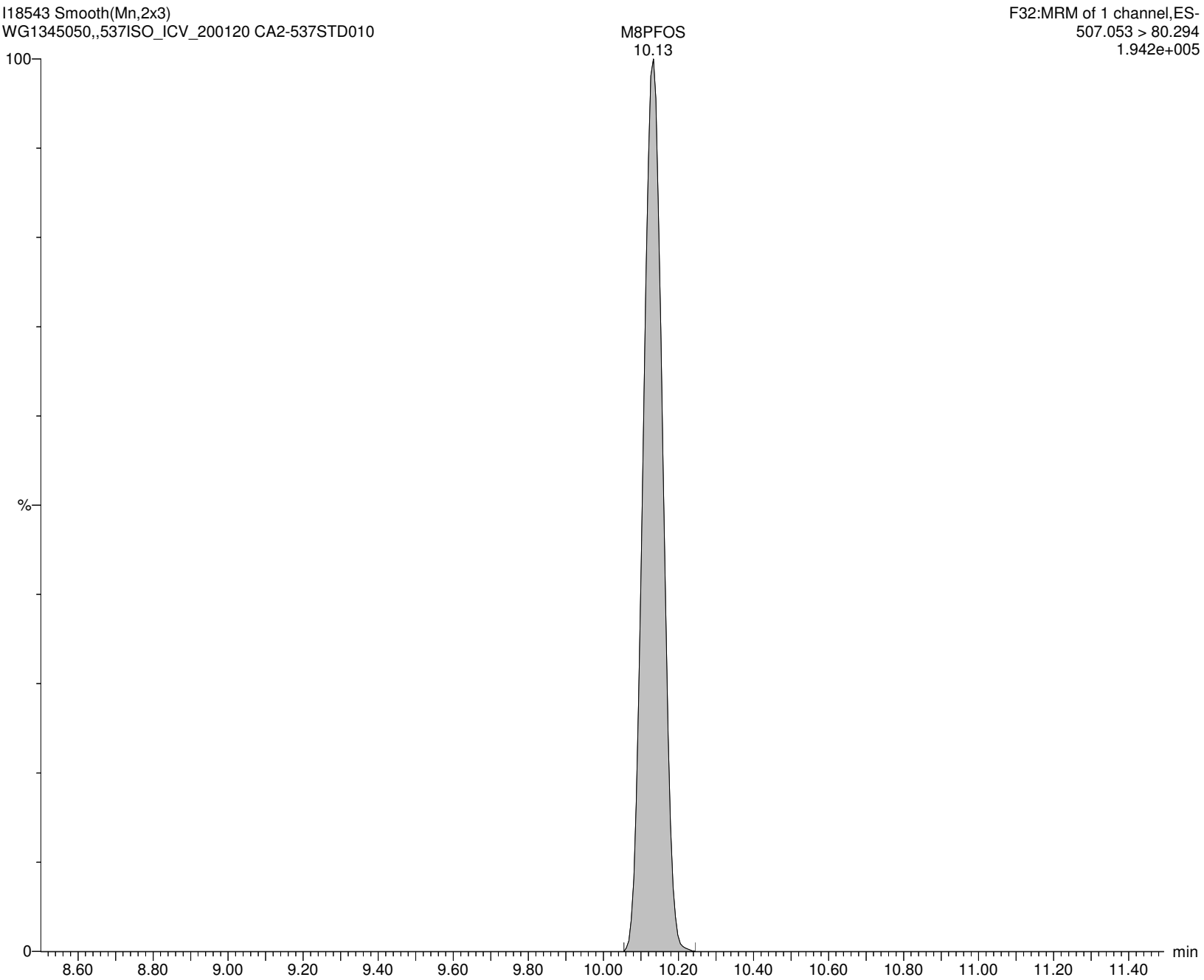

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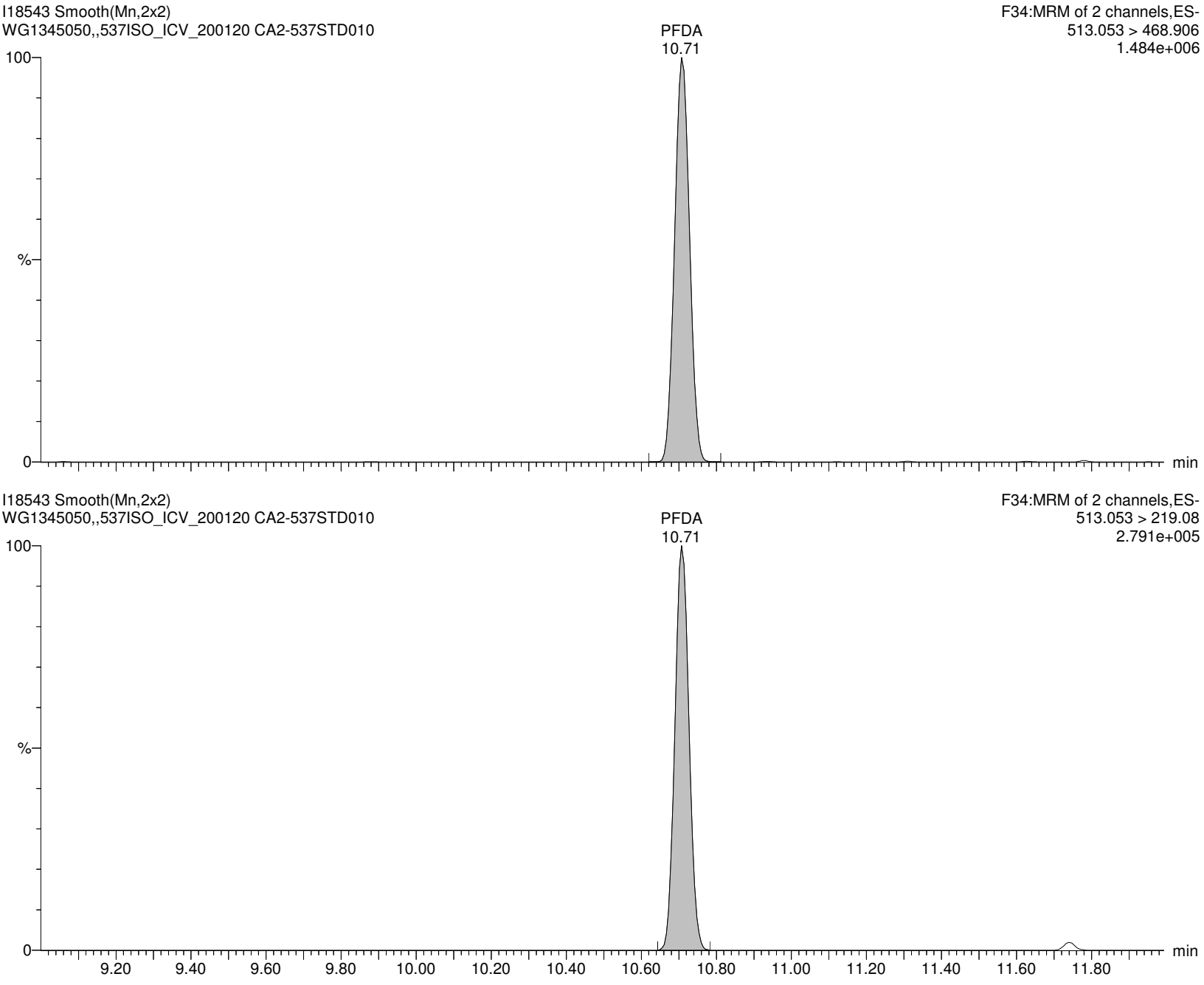

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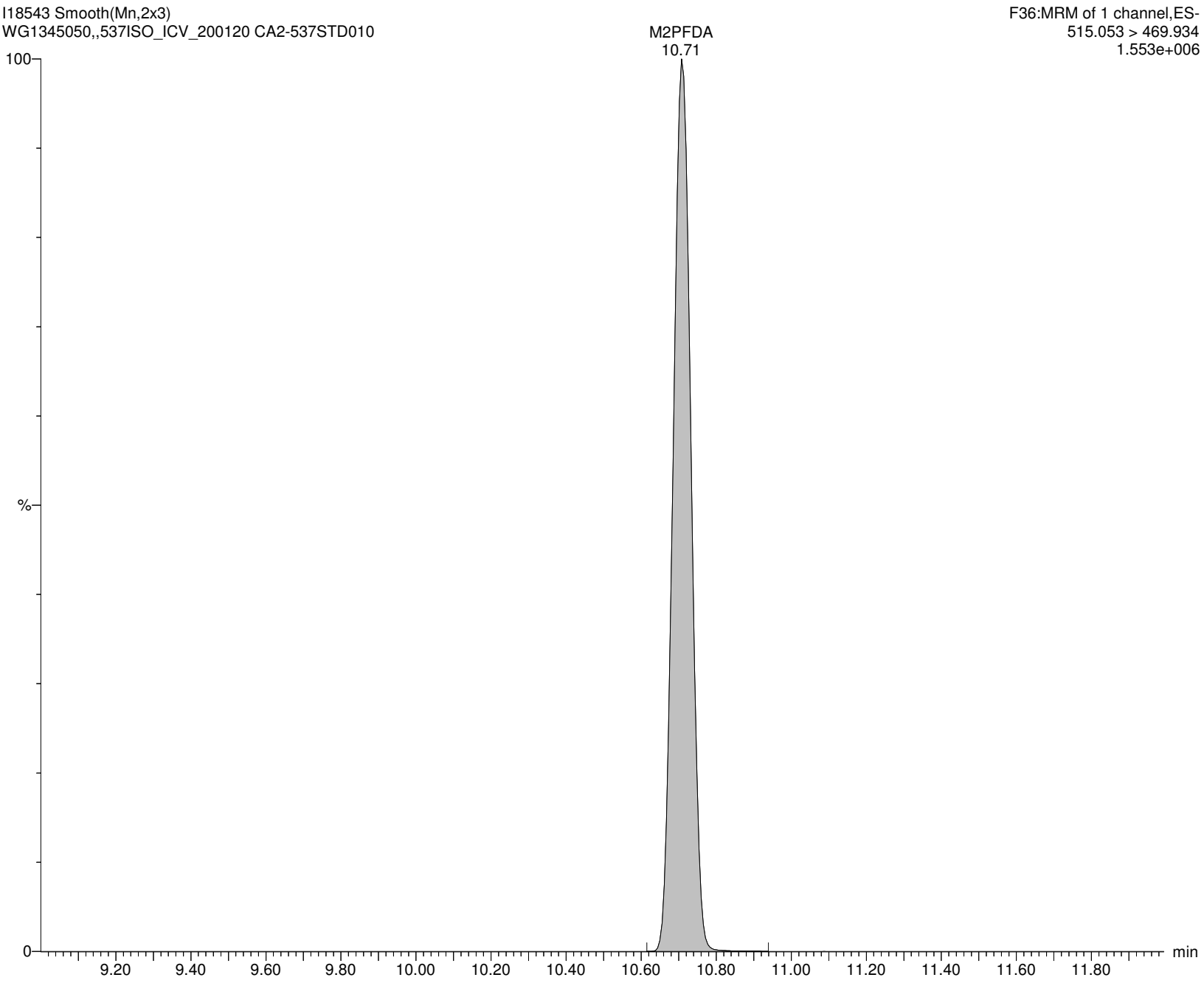

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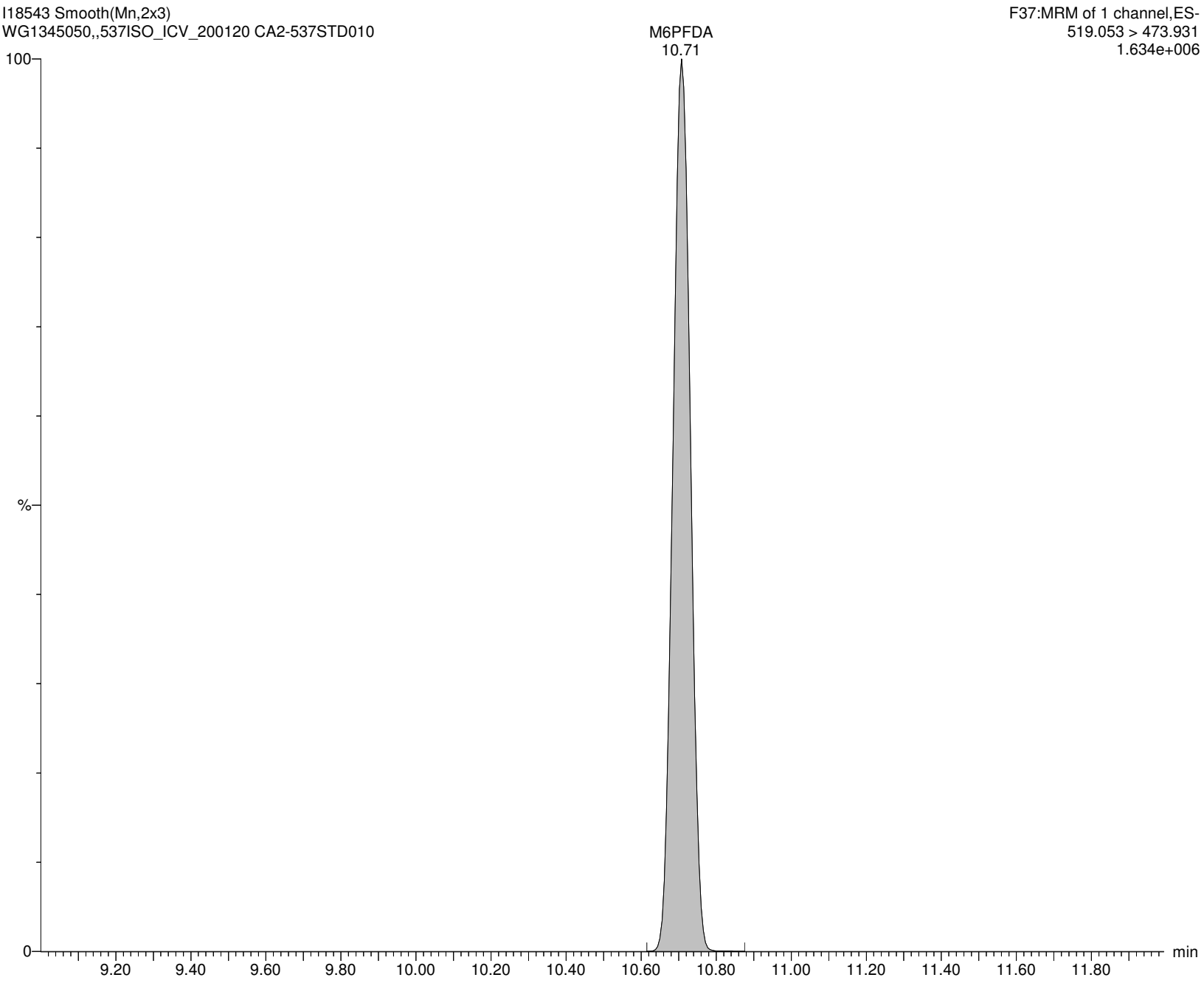

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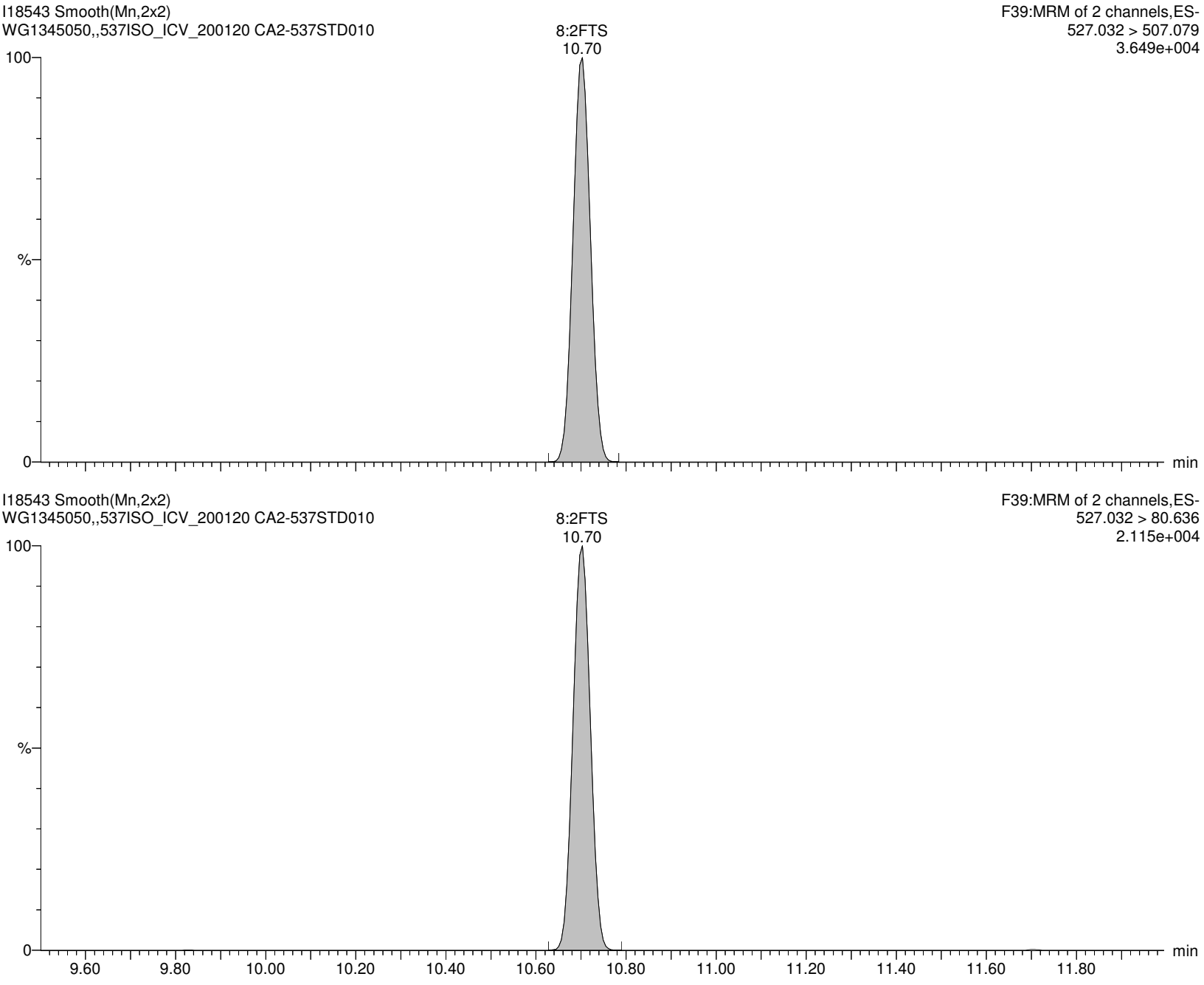
8:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050ICV.qld
Last Altered: Friday, February 28, 2020 09:22:22 Eastern Standard Time
Printed: Friday, February 28, 2020 09:23:05 Eastern Standard Time

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ID: CA2-537STD010
Date: 27-Feb-2020
Time: 18:59:36
Description: WG1345050,,537ISO_ICV_200120
User: LCMS01:JW
Vial: 1:B,7
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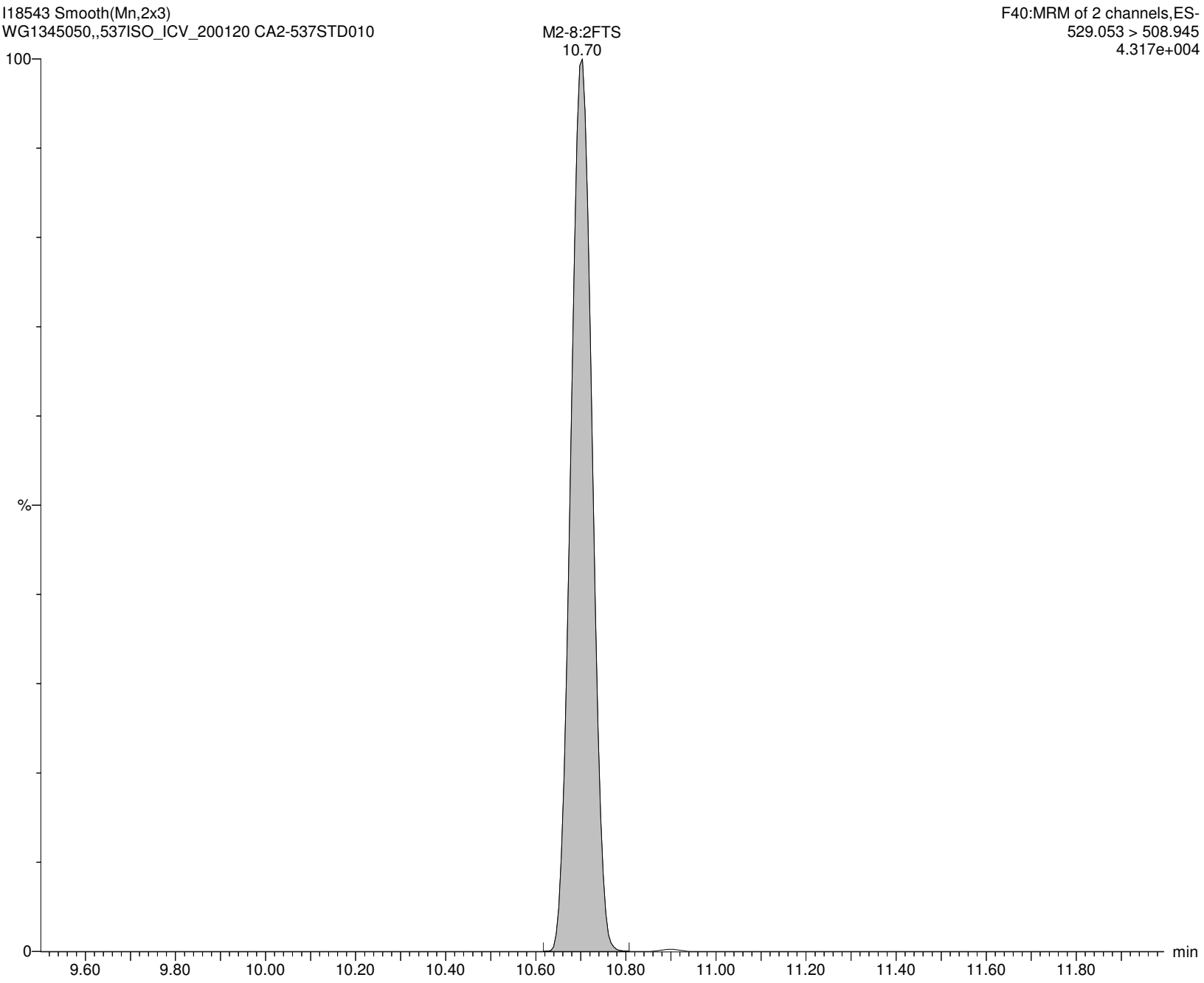

all concentration units in (ng/mL)

Alpha Analytical Inc.
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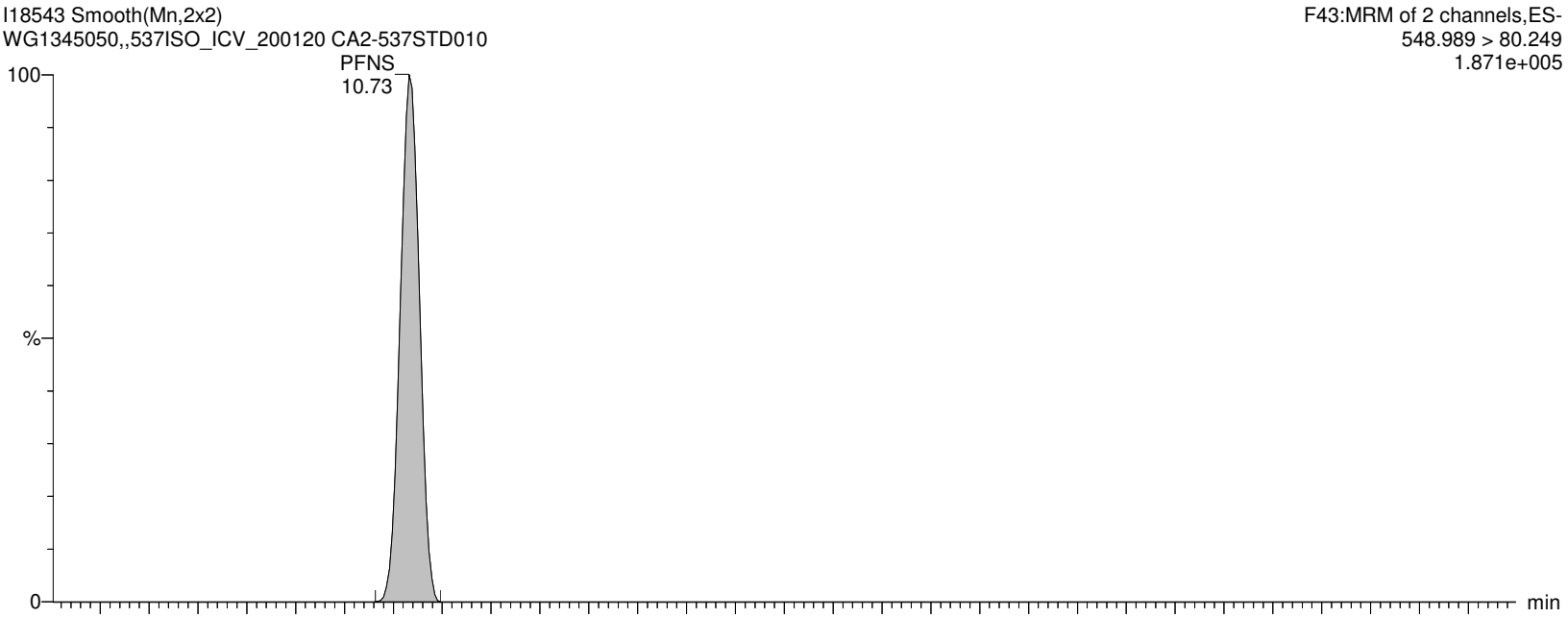

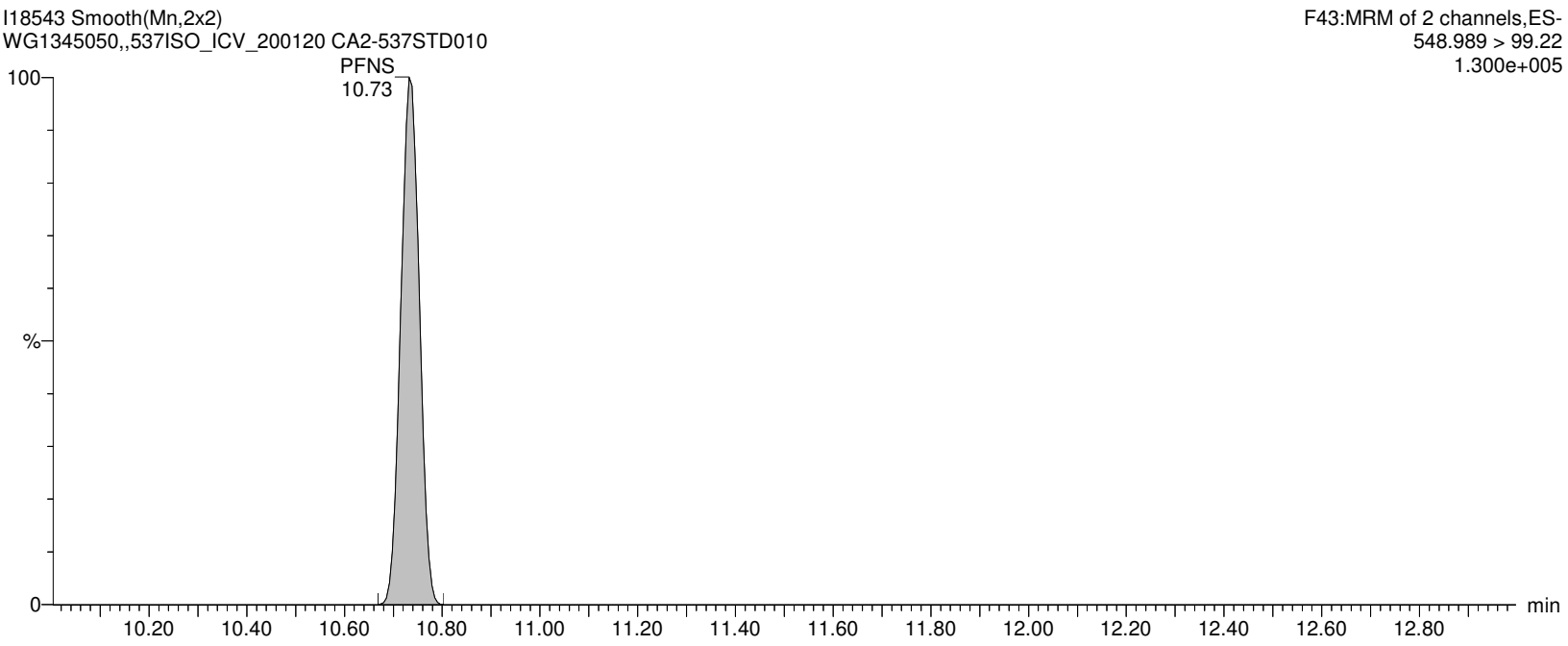

all concentration units in (ng/mL)

Alpha Analytical Inc.
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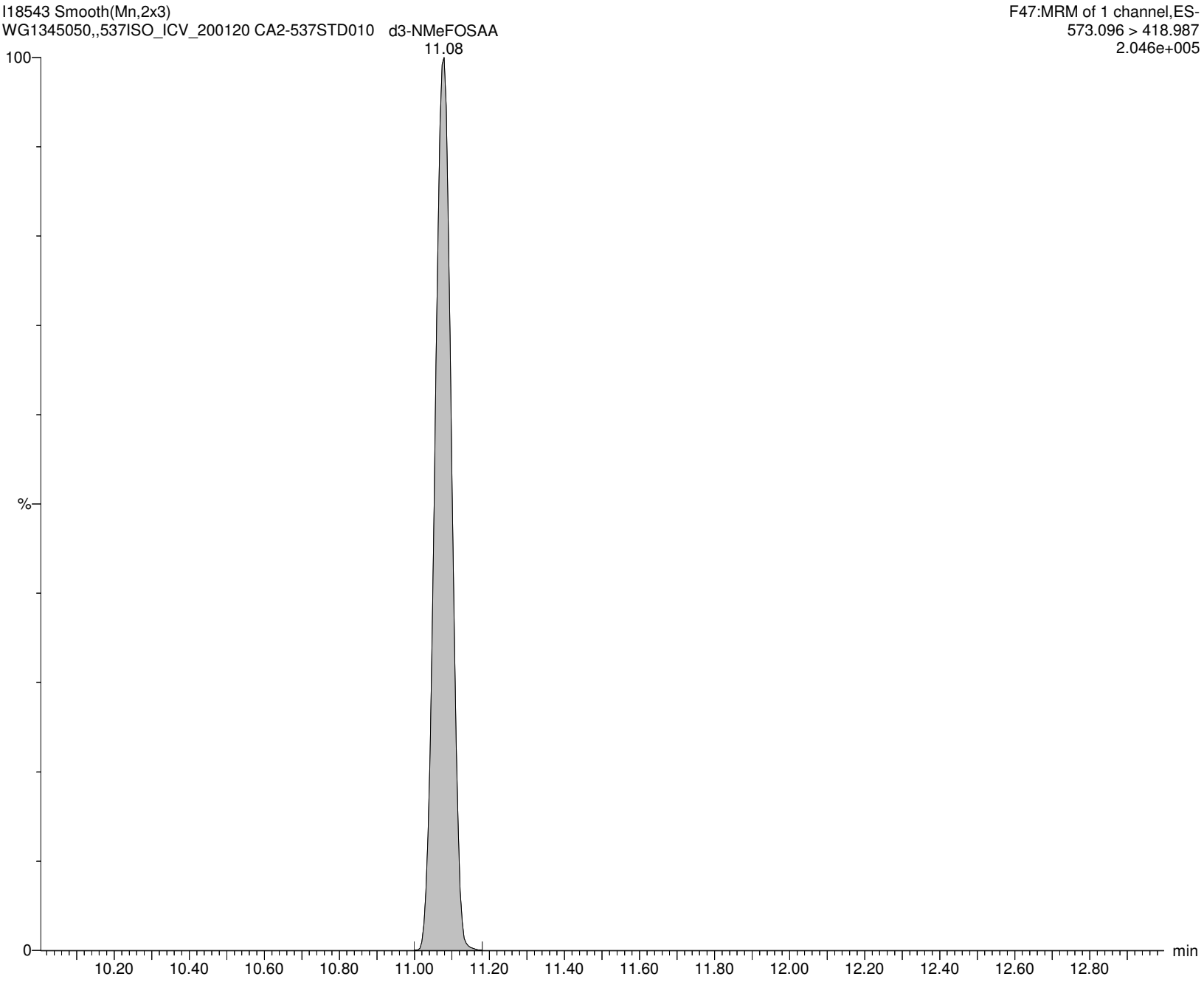
d3-NMeFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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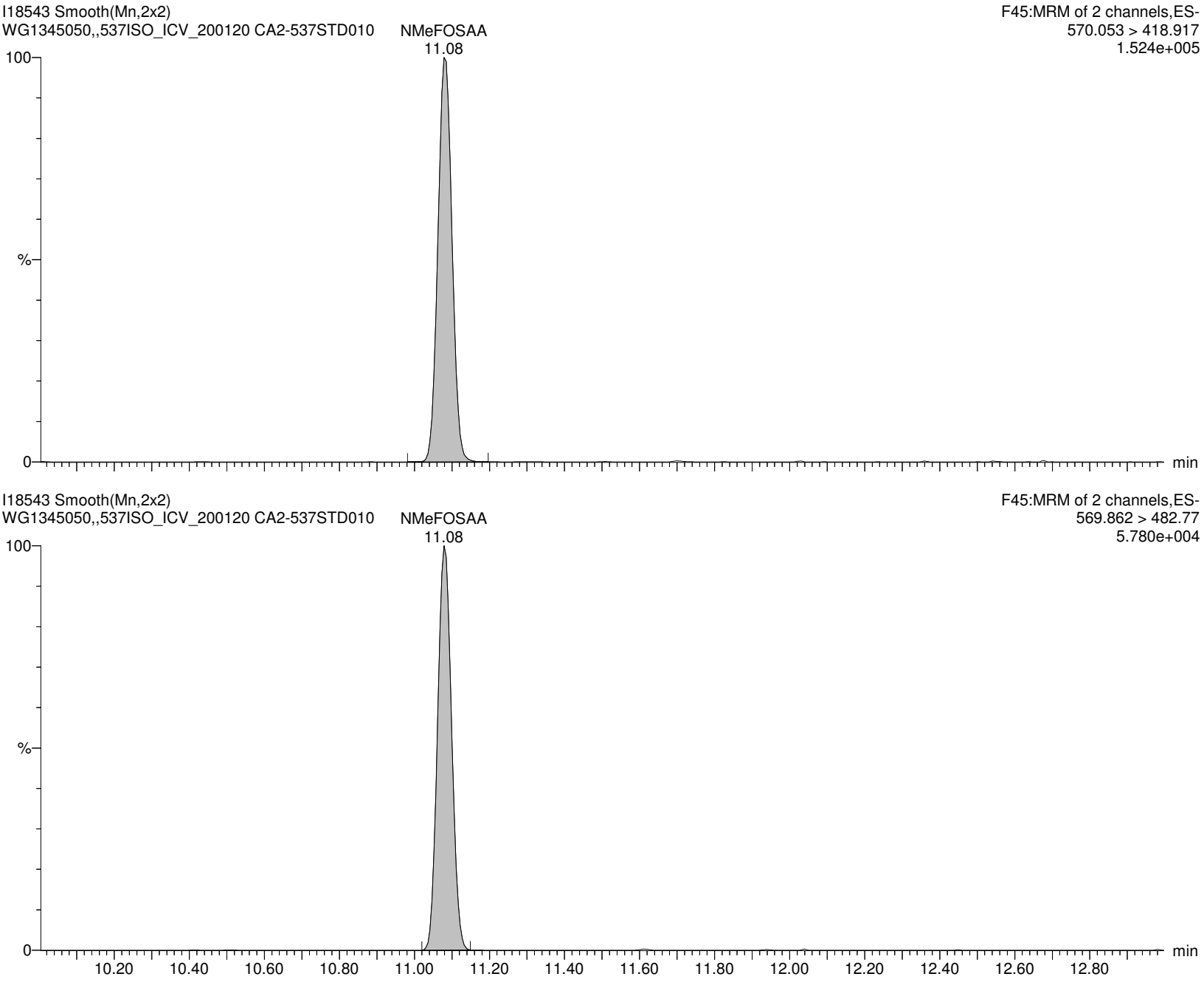

all concentration units in (ng/mL)

Alpha Analytical Inc.
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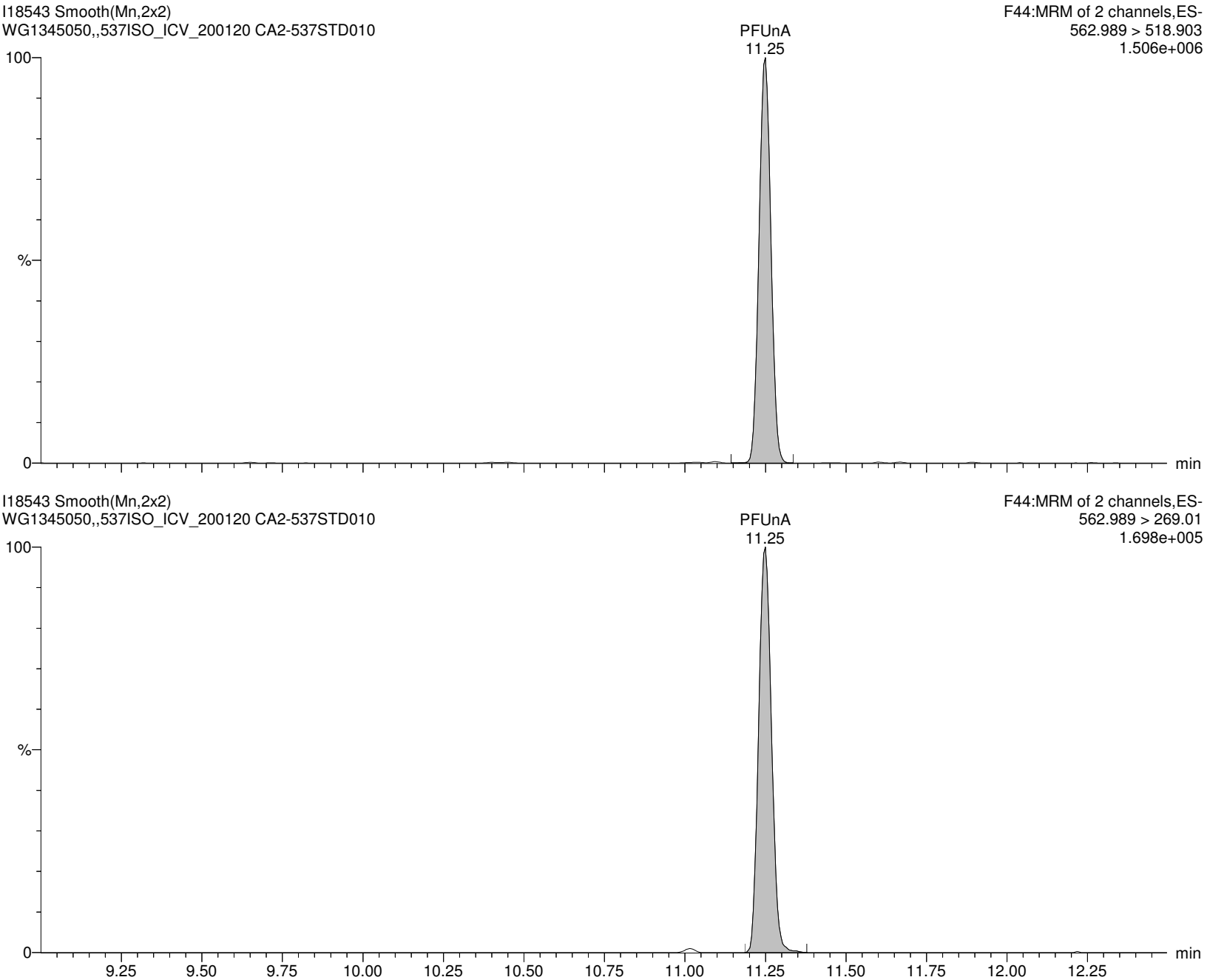

all concentration units in (ng/mL)

Alpha Analytical Inc.
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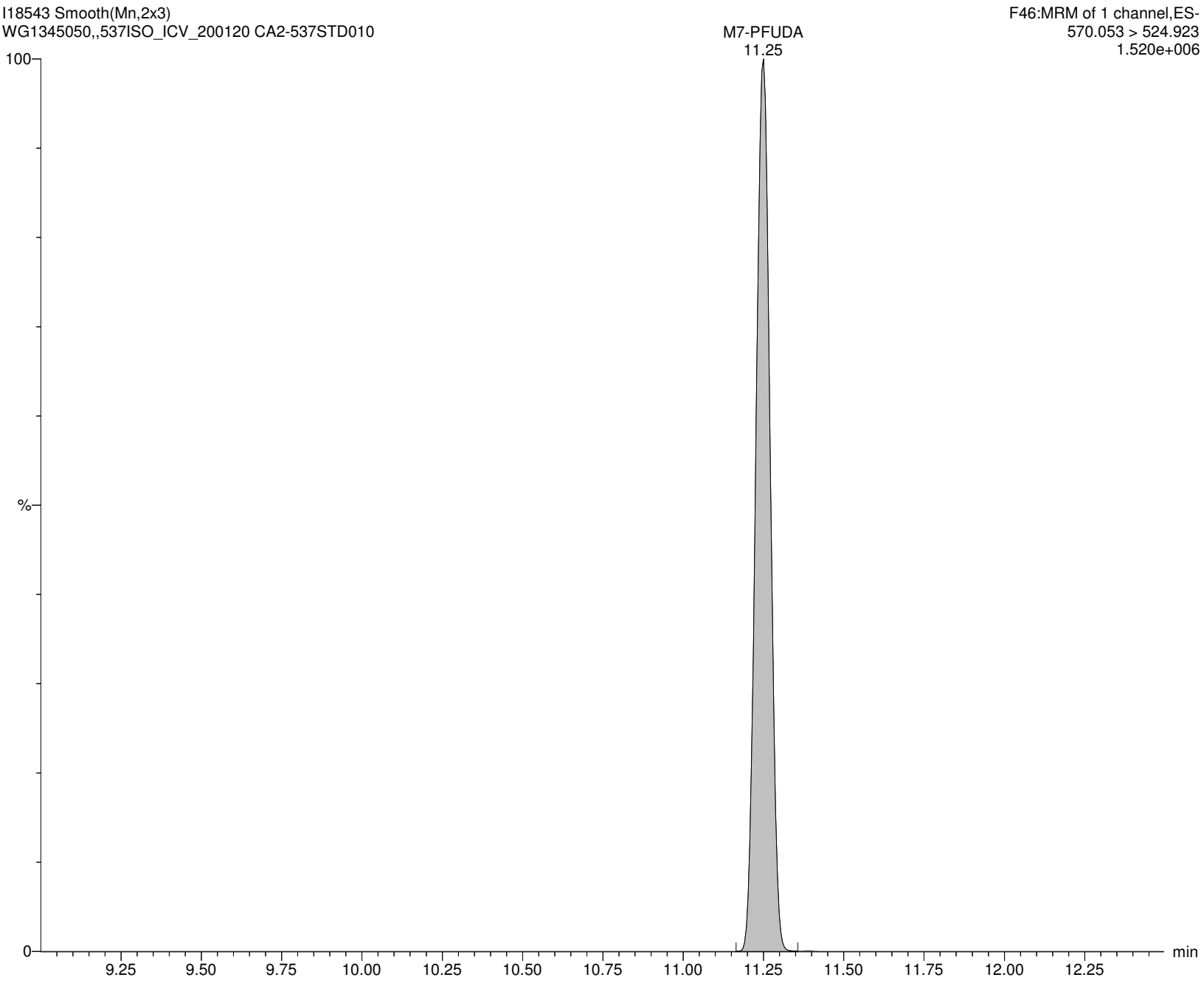
M7-PFUDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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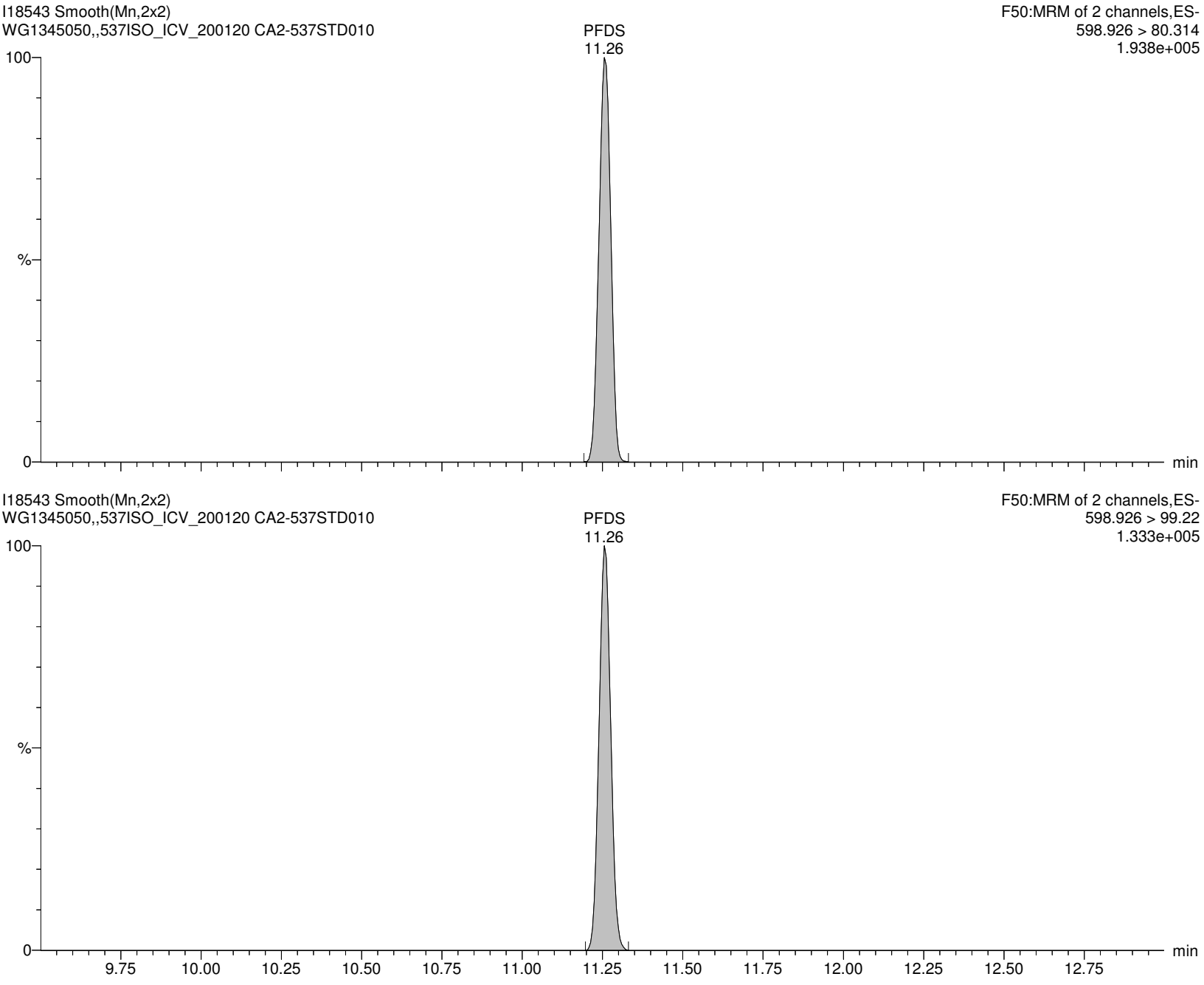

all concentration units in (ng/mL)

Alpha Analytical Inc.
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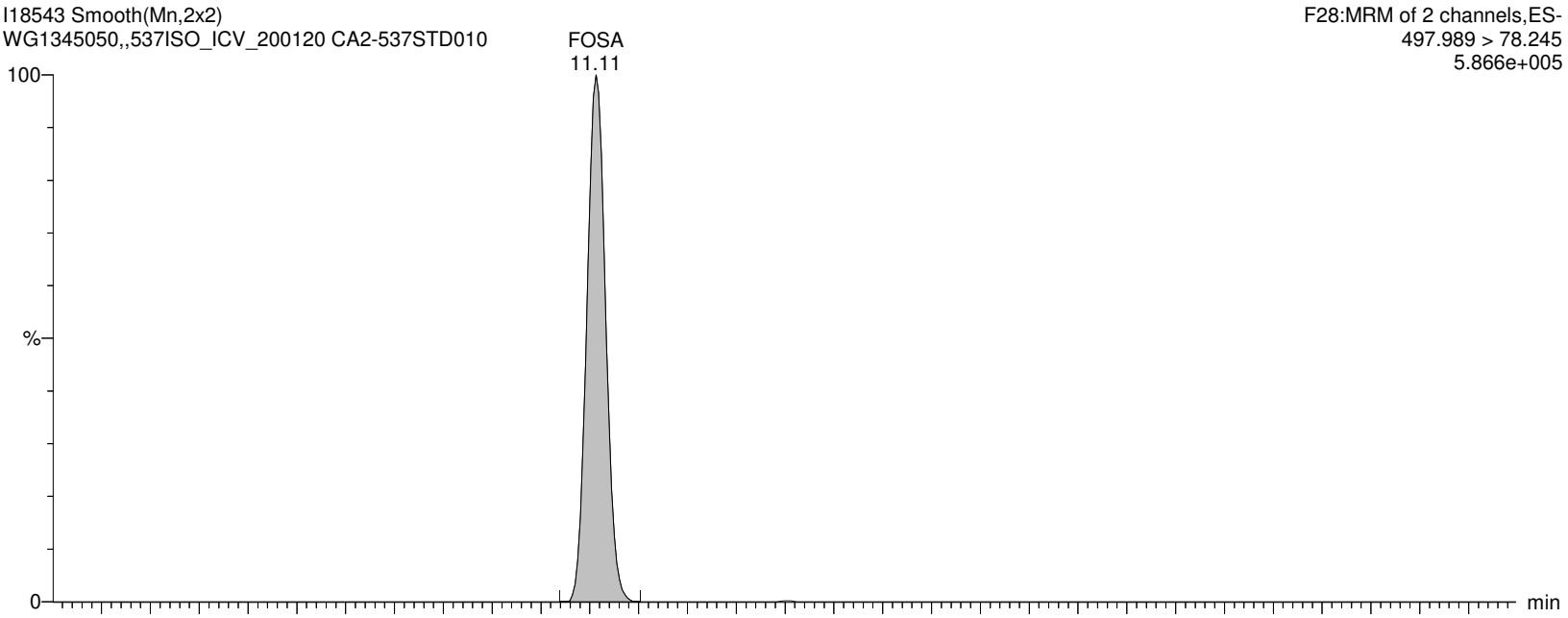

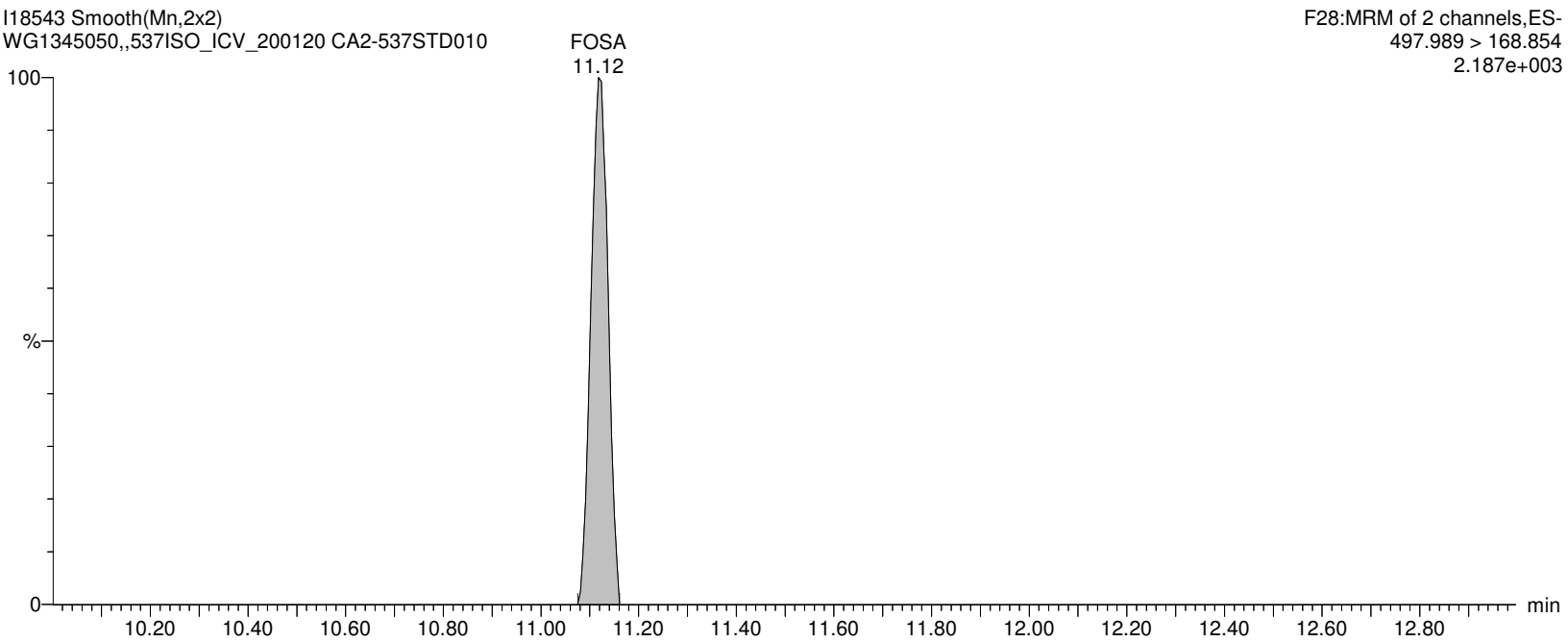

all concentration units in (ng/mL)

Alpha Analytical Inc.
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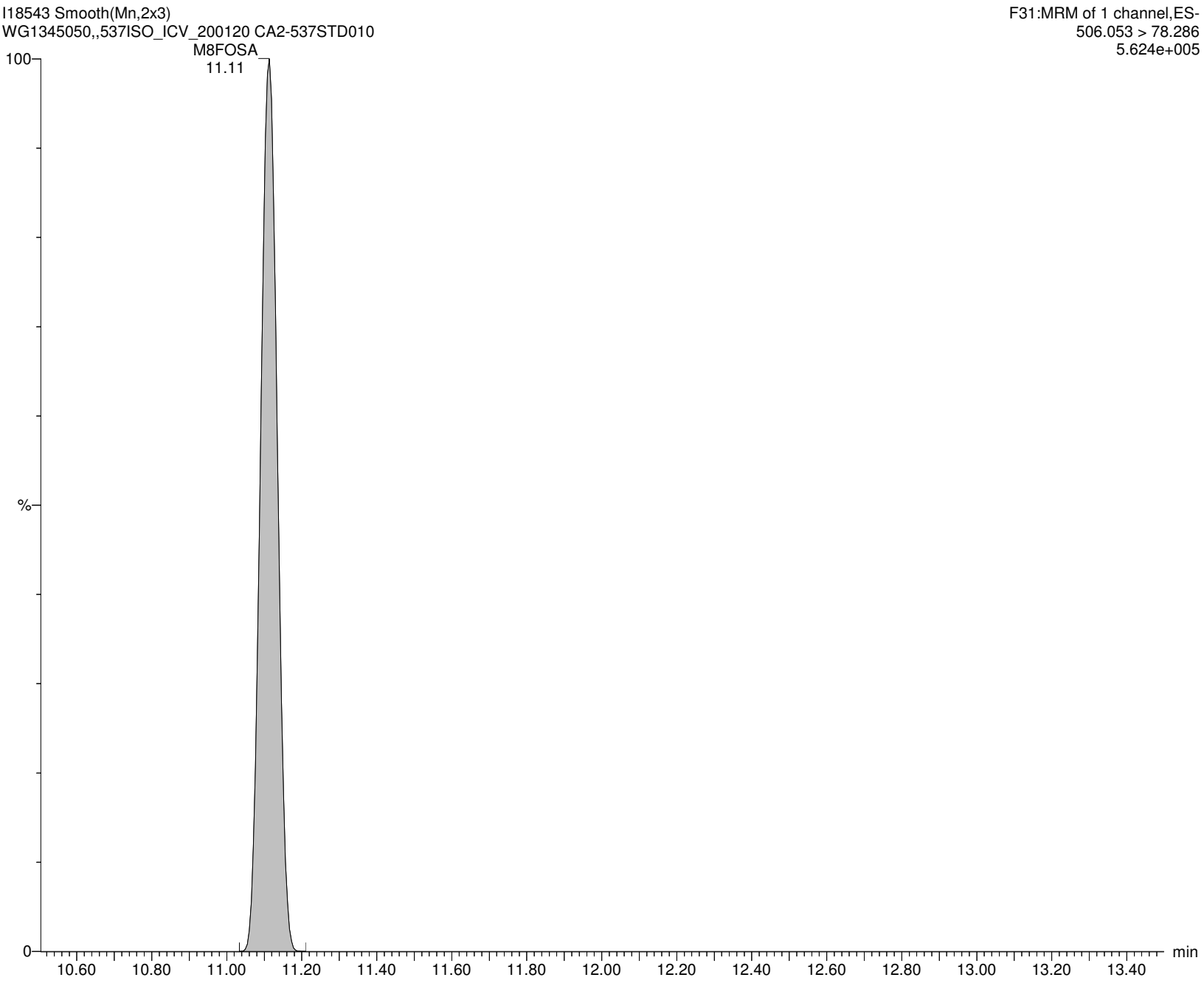

all concentration units in (ng/mL)

Alpha Analytical Inc.
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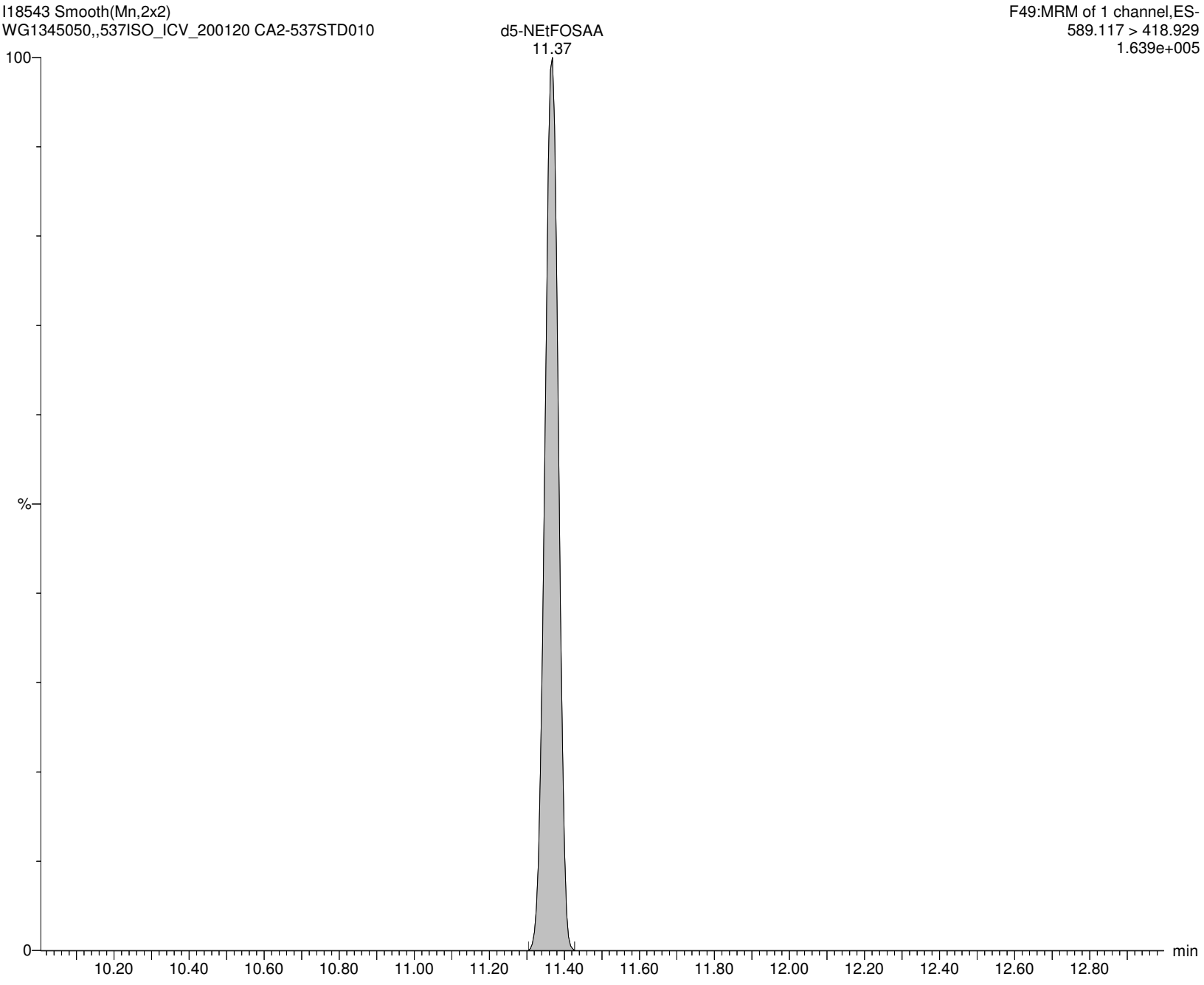
d5-NEtFOSAA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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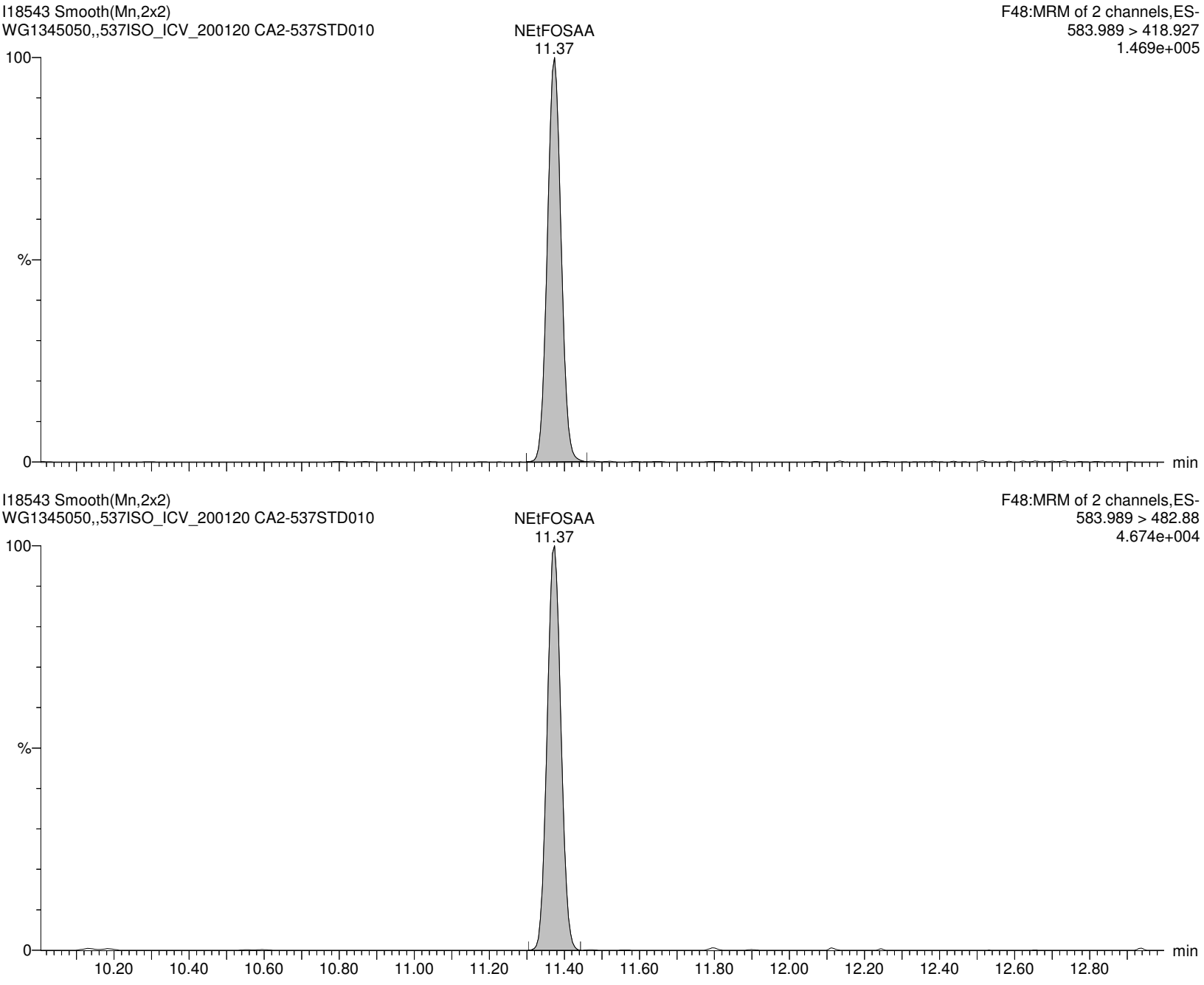

all concentration units in (ng/mL)

Alpha Analytical Inc.
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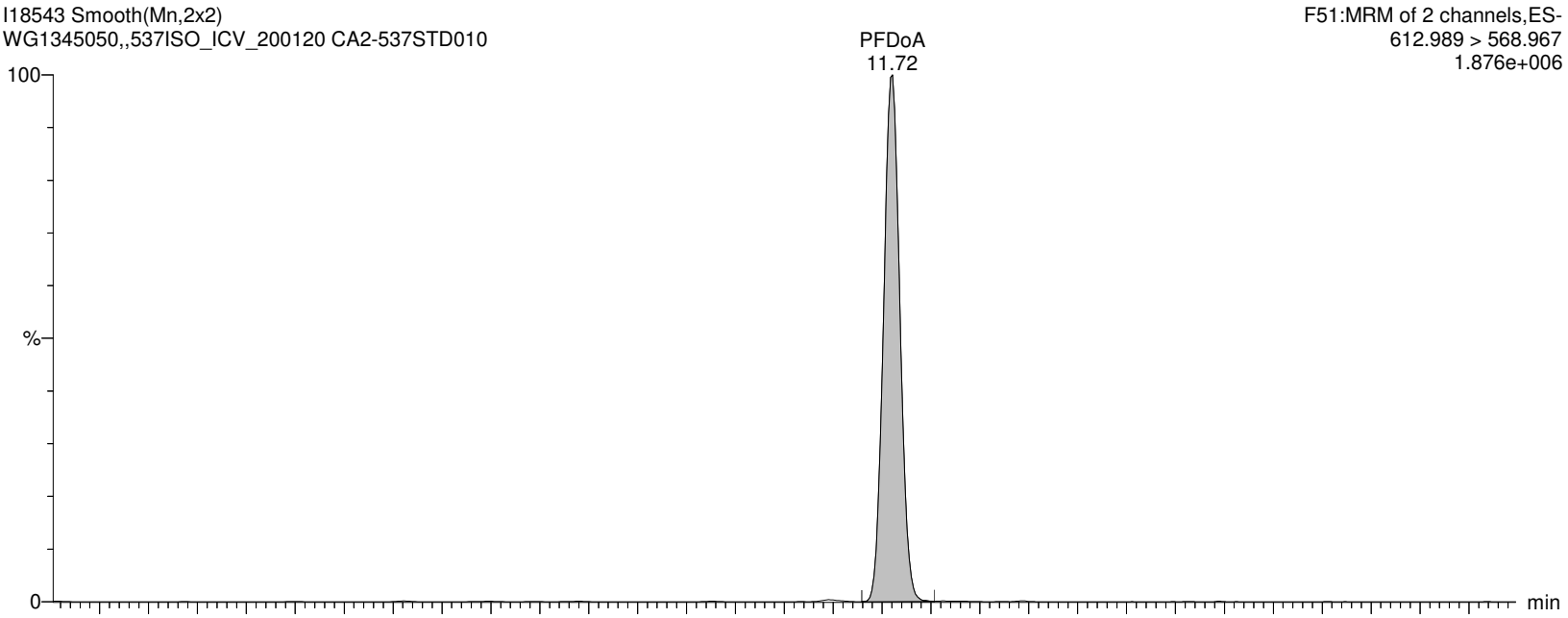

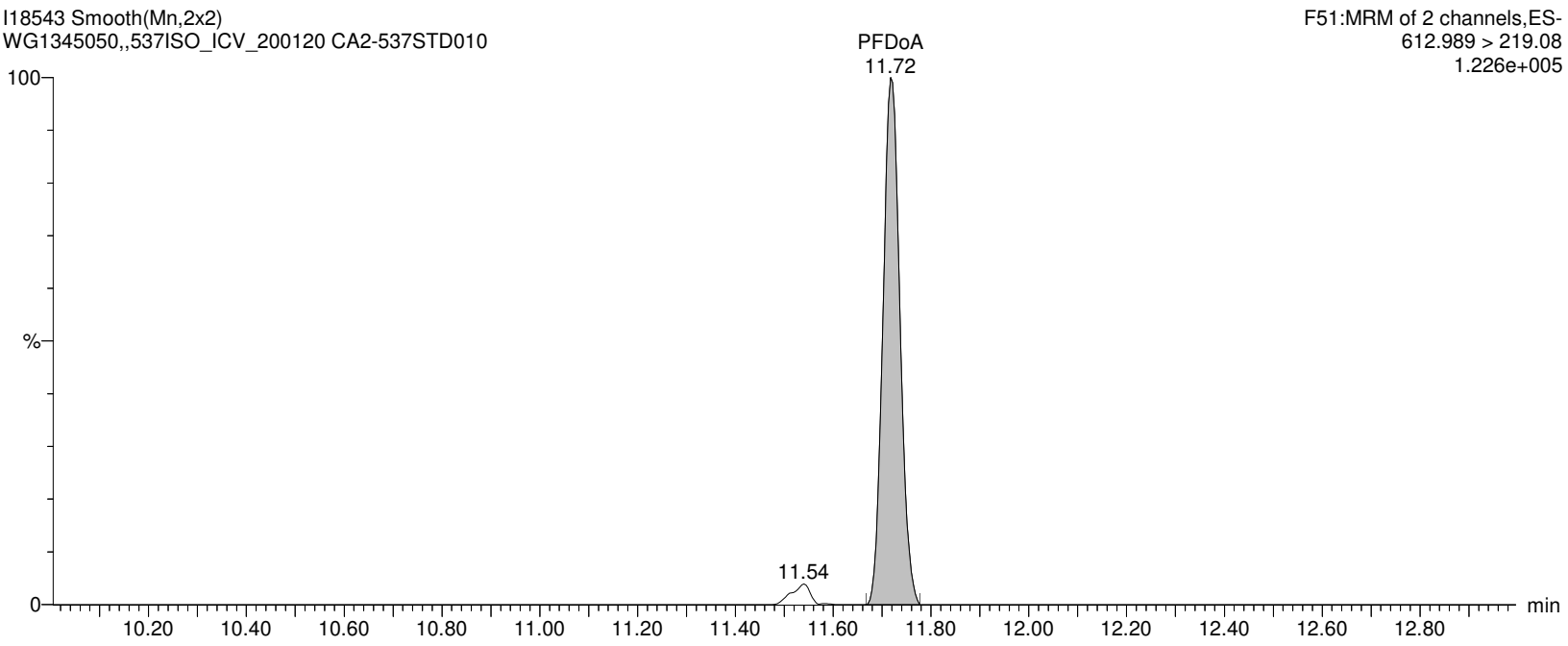

all concentration units in (ng/mL)

Alpha Analytical Inc.
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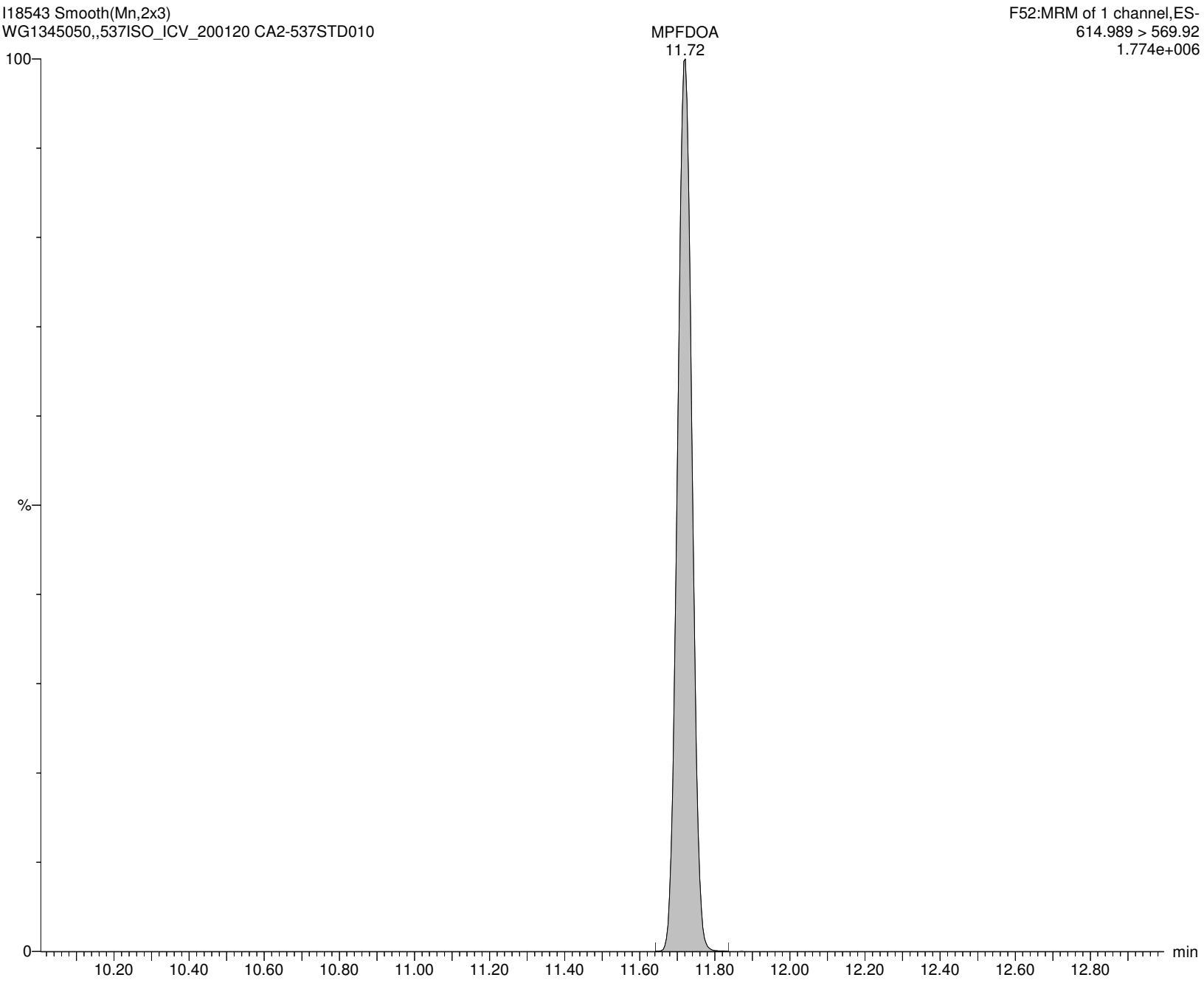

all concentration units in (ng/mL)

Alpha Analytical Inc.
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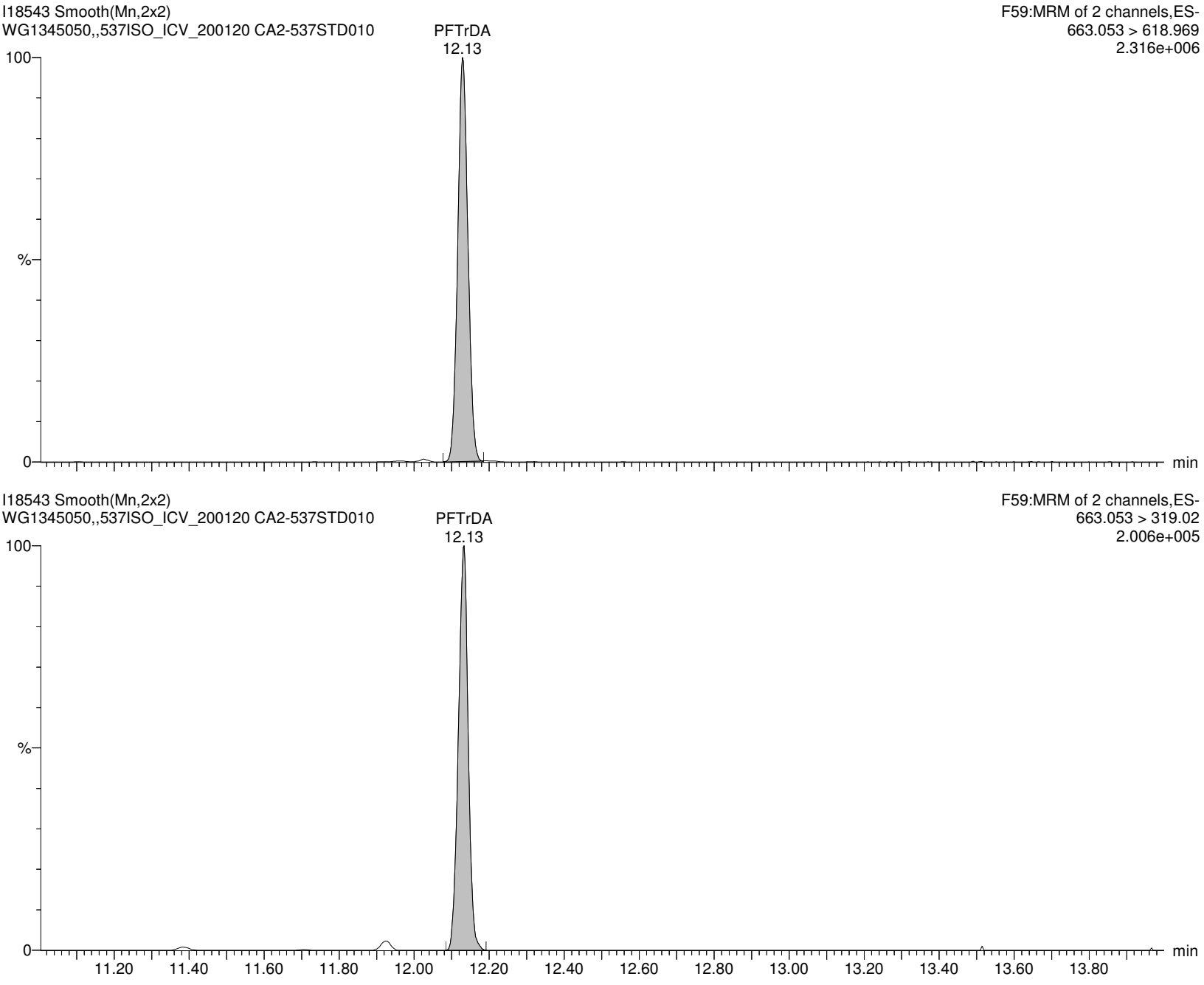

all concentration units in (ng/mL)

Alpha Analytical Inc.
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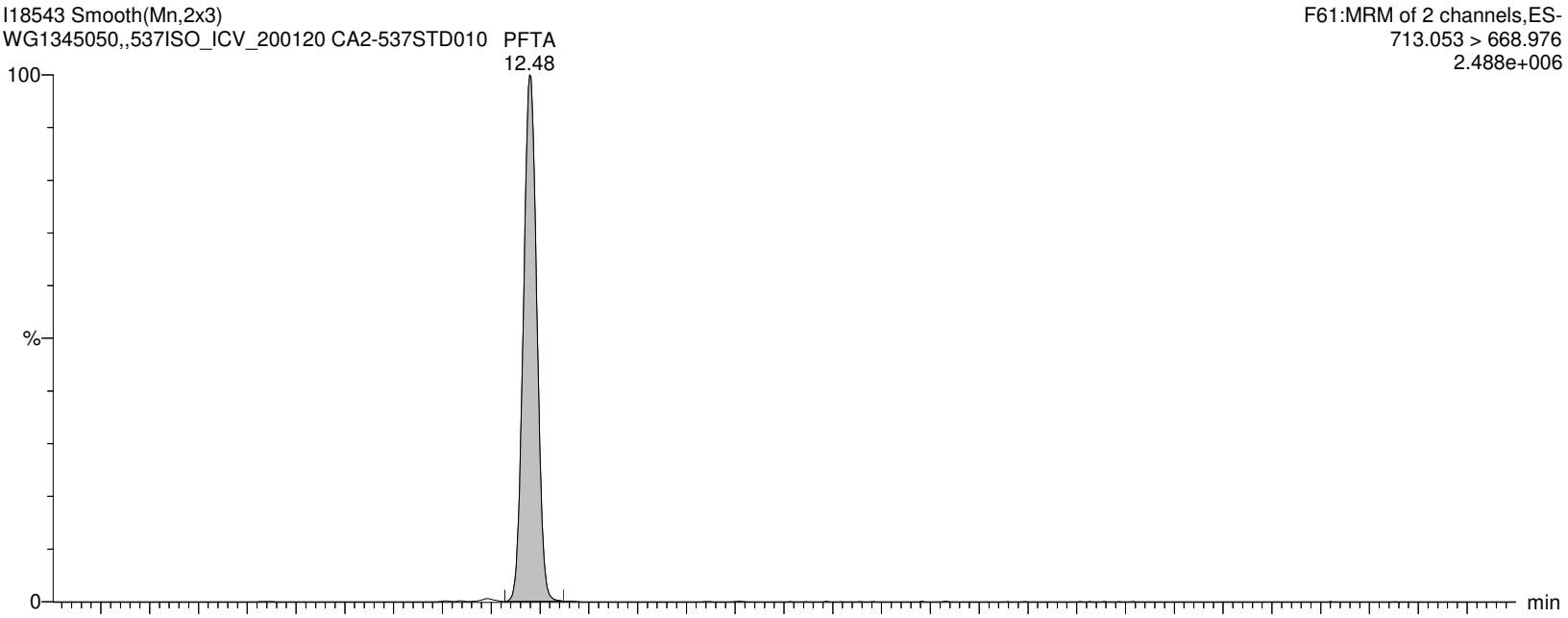
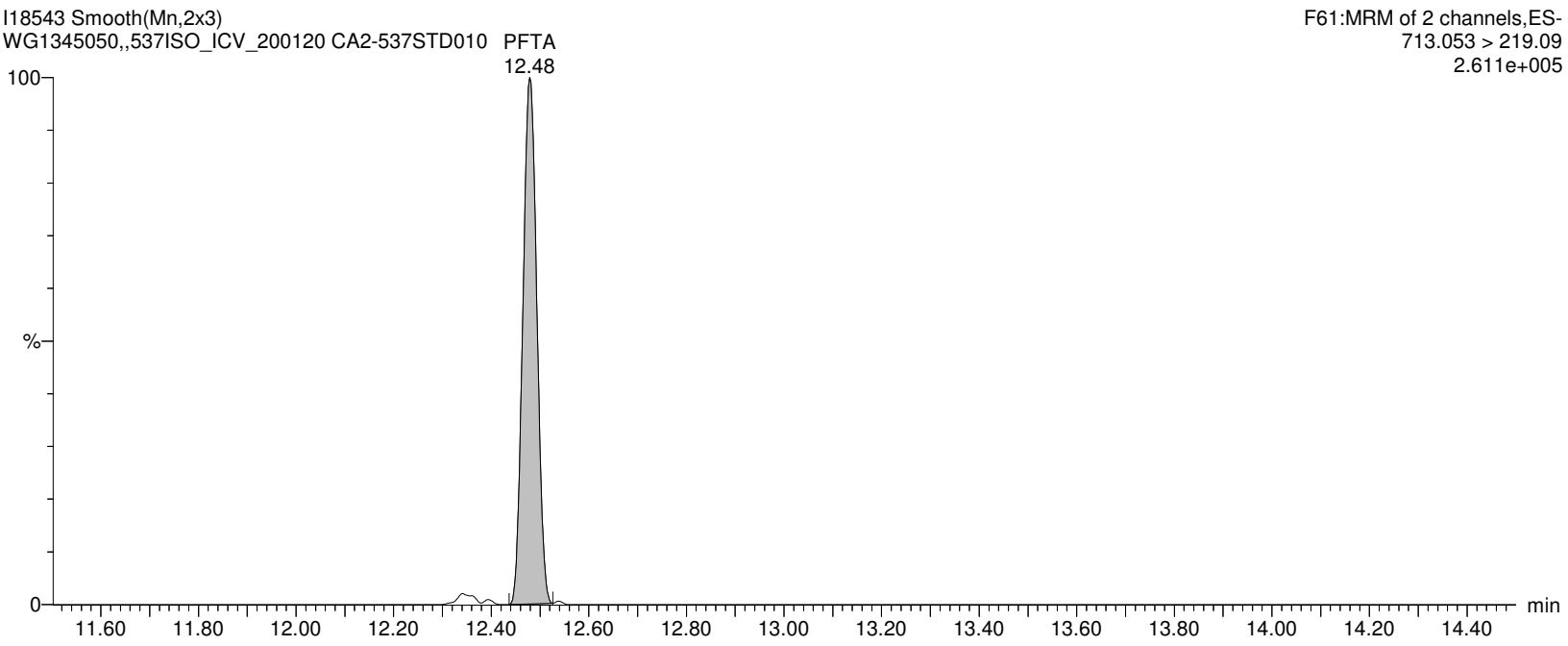
PFTA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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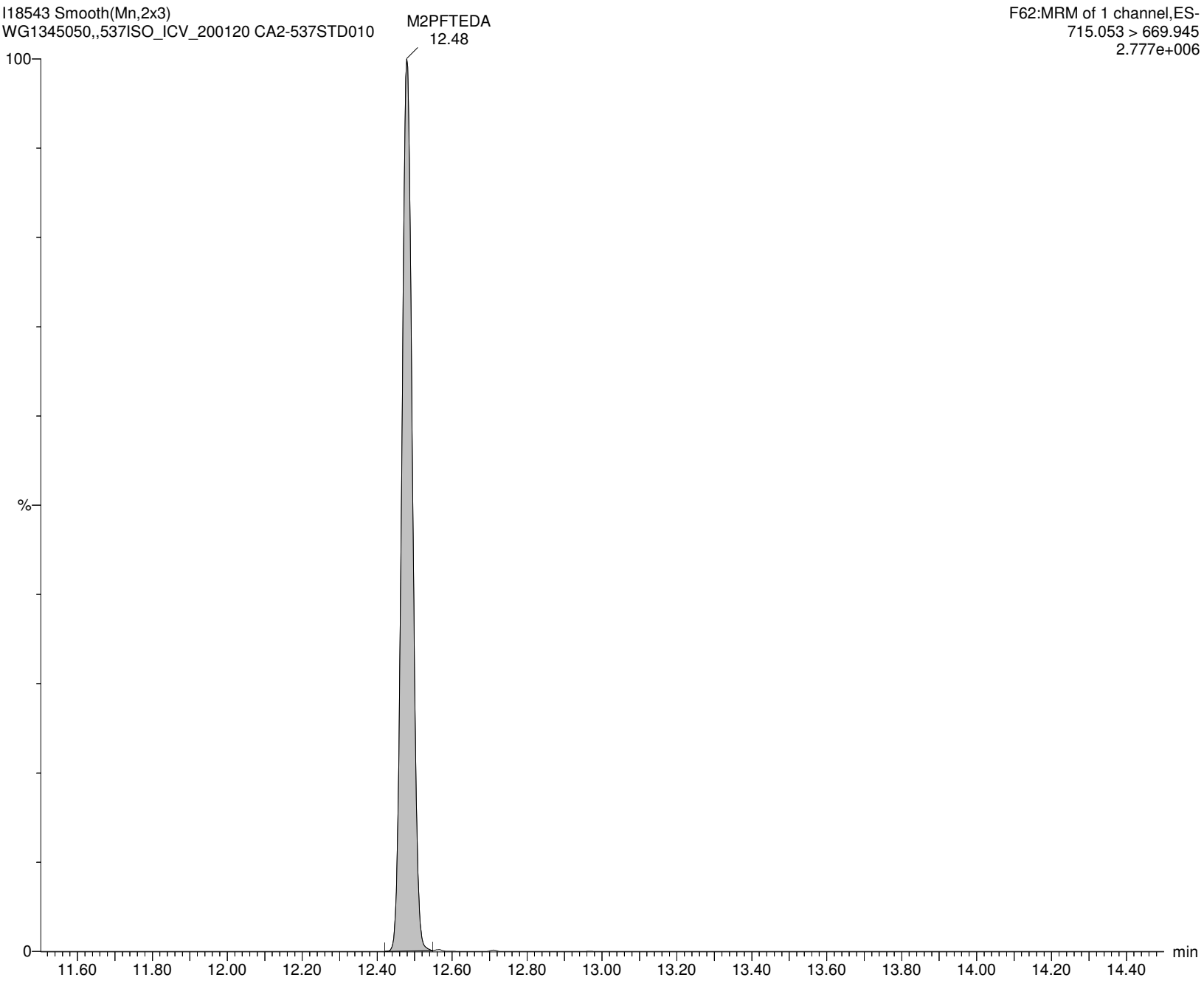
M2PFTEDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Calibration: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 09:12:40

ID: TECHSTD_190520A
Name: I18542
Date: 27-Feb-2020
Time: 18:42:21
Description: WG1345050,,537ISO_TECHSTD_190520A
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
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MS Method Name: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	br-PFOA	335-67-1	9.12	412.989 > 368.9	9948	m5	1.273	2.93	NO	
2	br-PFOS	1763-23-1	9.88	498.968 > 79.918	3220	M5	4.035	3.81	NO	
3	NMeFOSAA	2355-31-9	11.08	570.053 > 418.917	8493	m5	13.883	2.96	NO	
4	NEtFOSAA	2991-50-6	11.37	583.989 > 418.927	7979	m5	11.627	3.47	NO	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200227_537ISO_ICAL.PRO\Data\WG1345050_TECHSTD.qld
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Date: 27-Feb-2020
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Description: WG1345050,,537ISO_TECHSTD_190520A
User: LCMS01:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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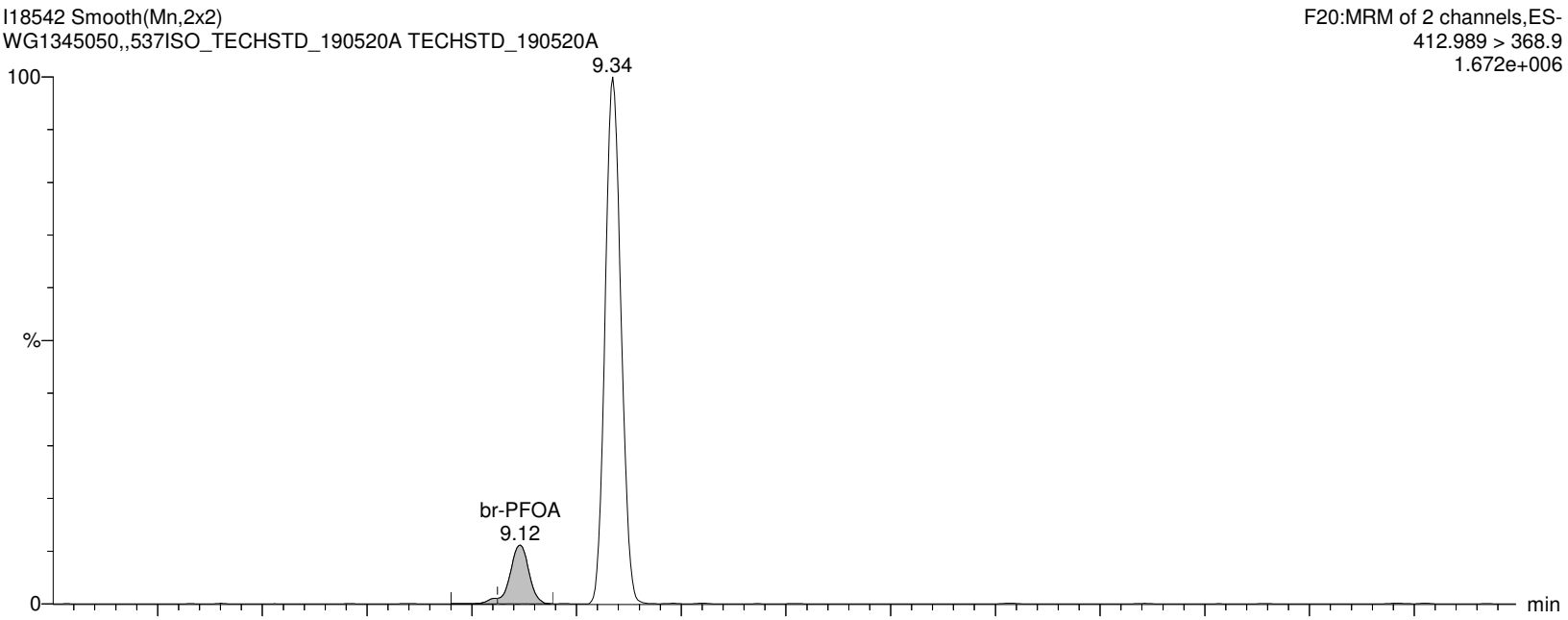
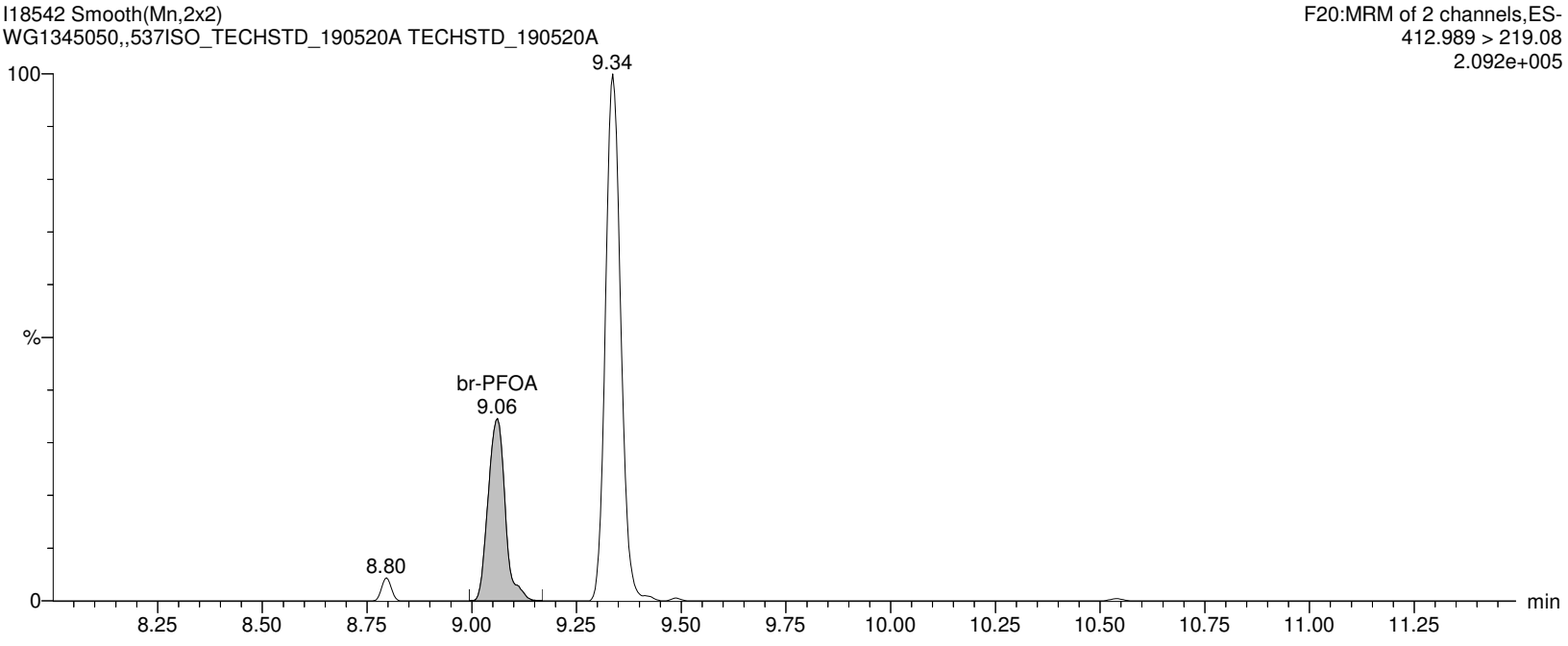
br-PFOA





all concentration units in (ng/mL)

Alpha Analytical Inc.
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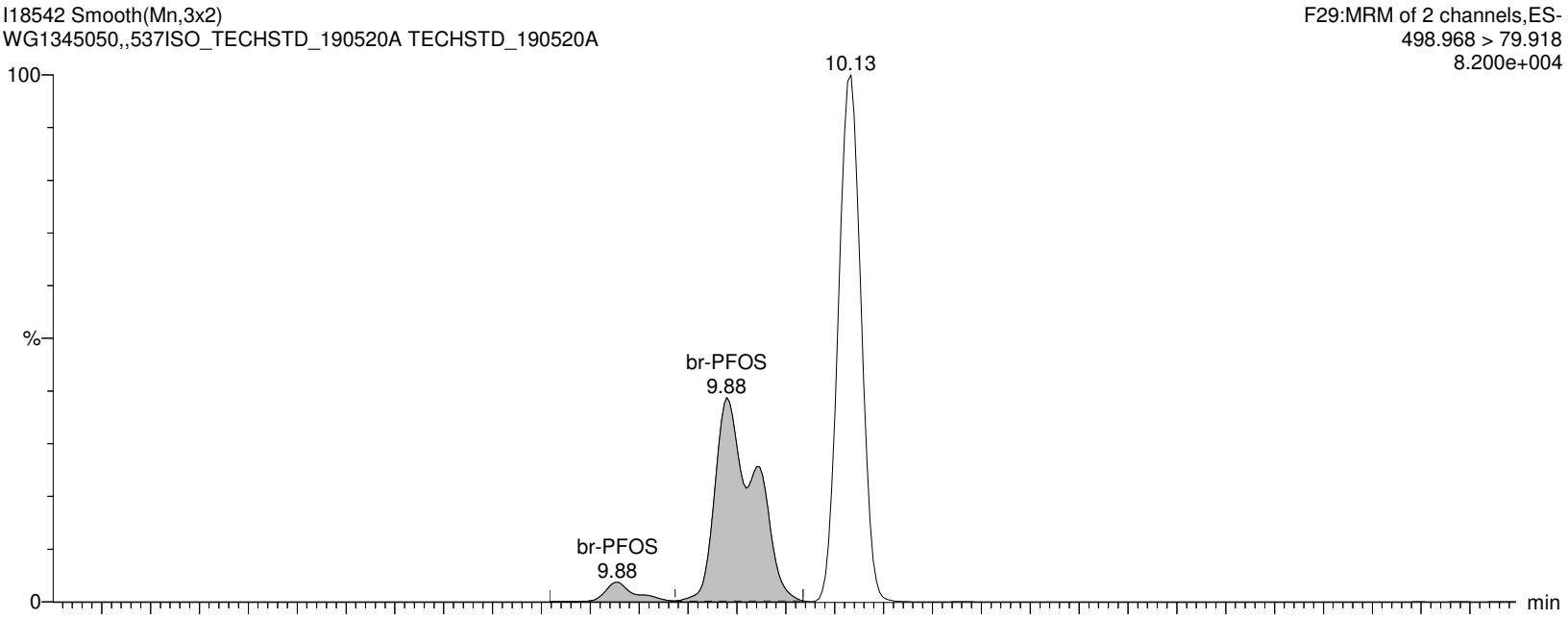
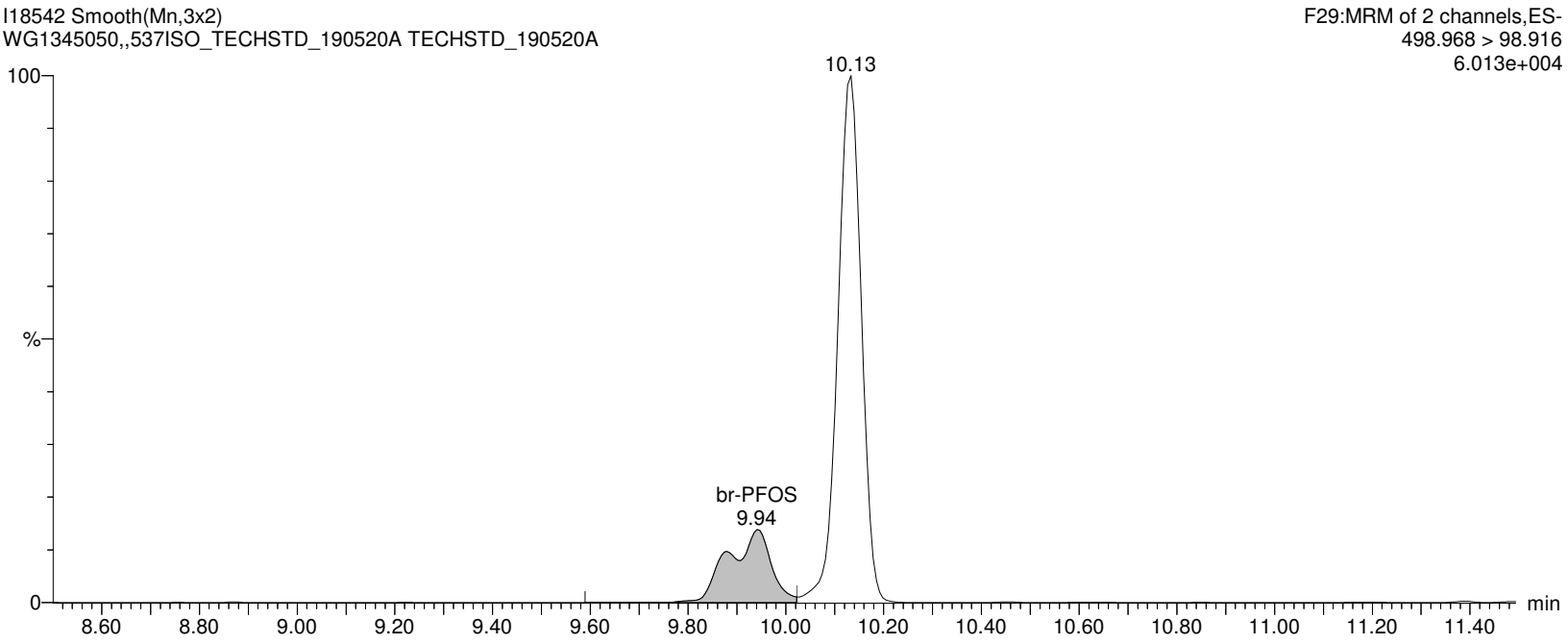
br-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 27-Feb-2020
Time: 18:42:21
Description: WG1345050,,537ISO_TECHSTD_190520A
User: LCMS01:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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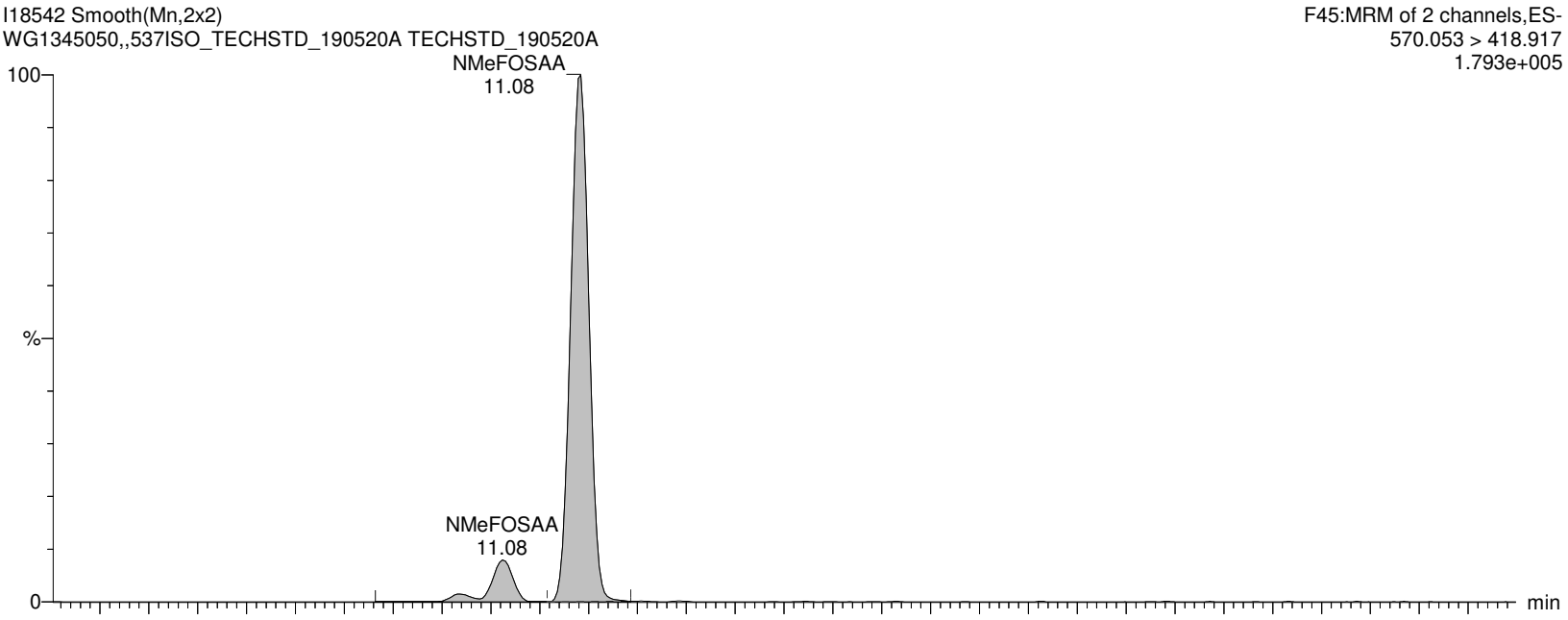

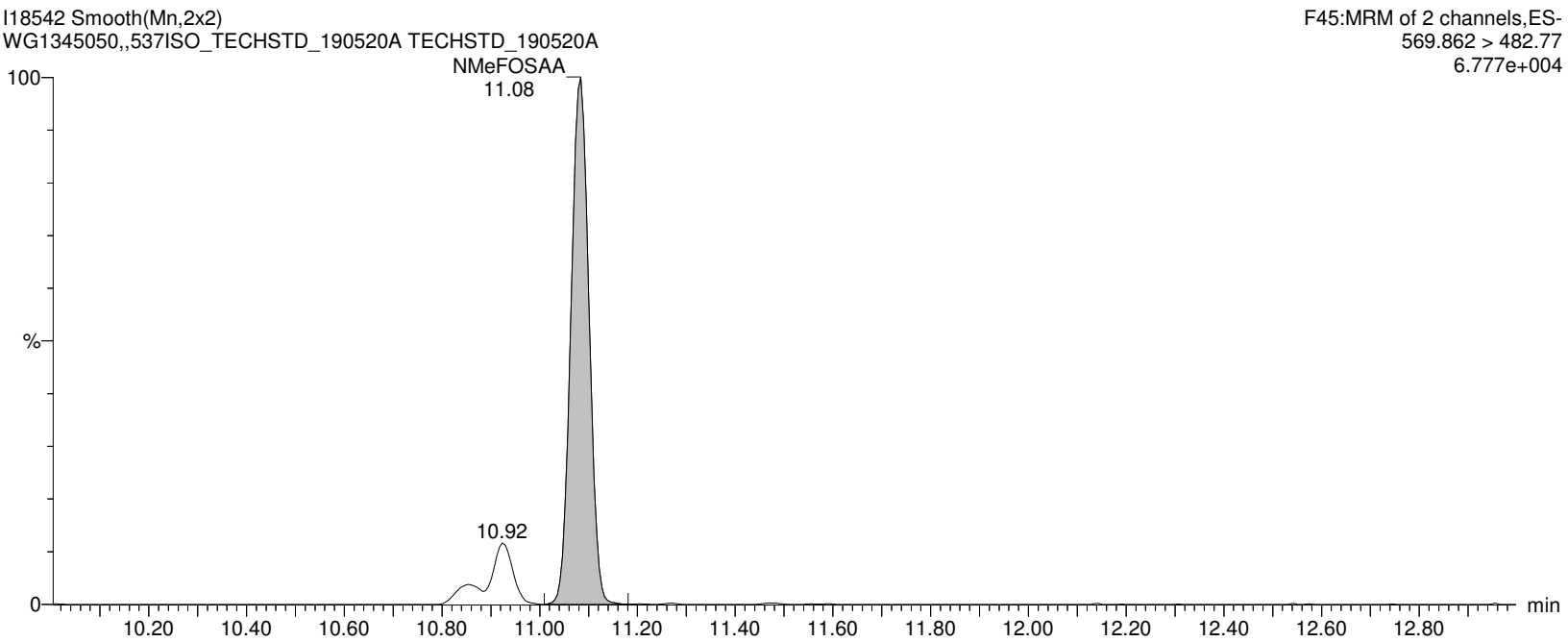

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, February 28, 2020 09:24:30 Eastern Standard Time
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Name: I18542
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Date: 27-Feb-2020
Time: 18:42:21
Description: WG1345050,,537ISO_TECHSTD_190520A
User: LCMS01:JW
Vial: 1:B,4
Instrument: XEVO-TQSmicro#QEA0276
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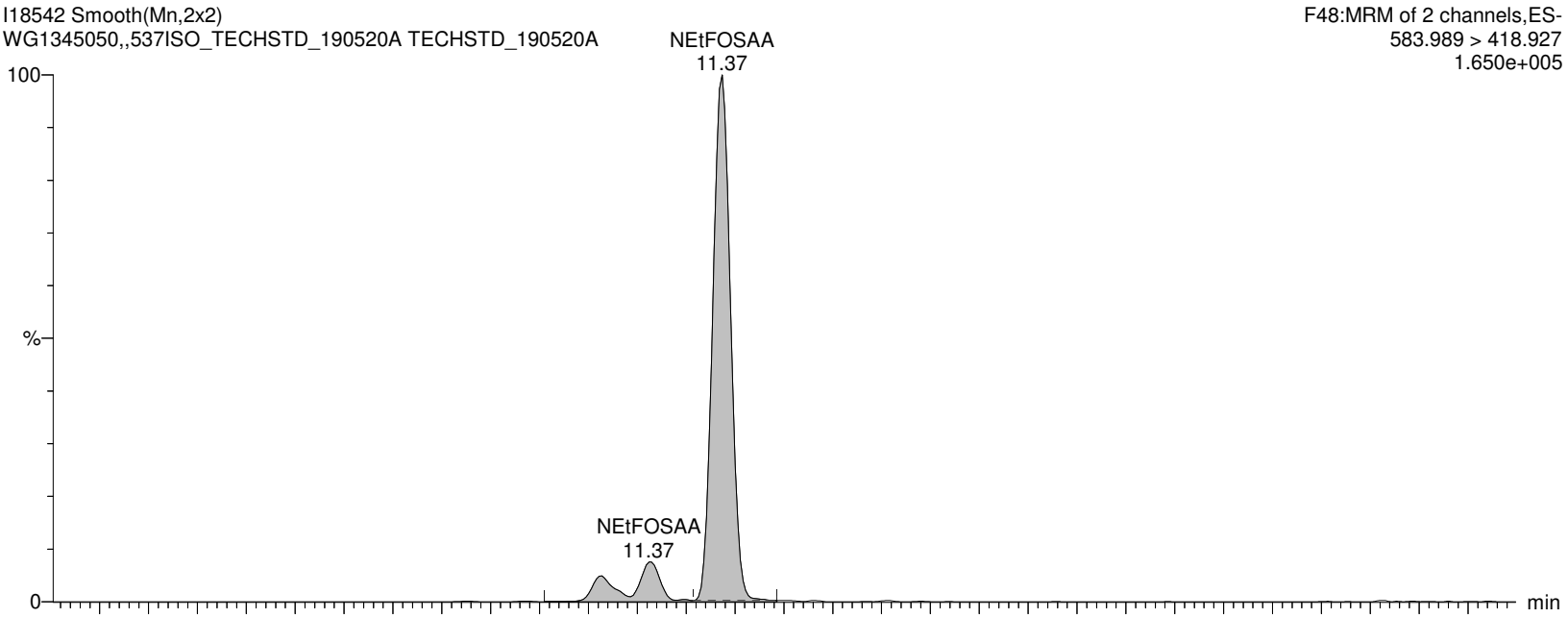
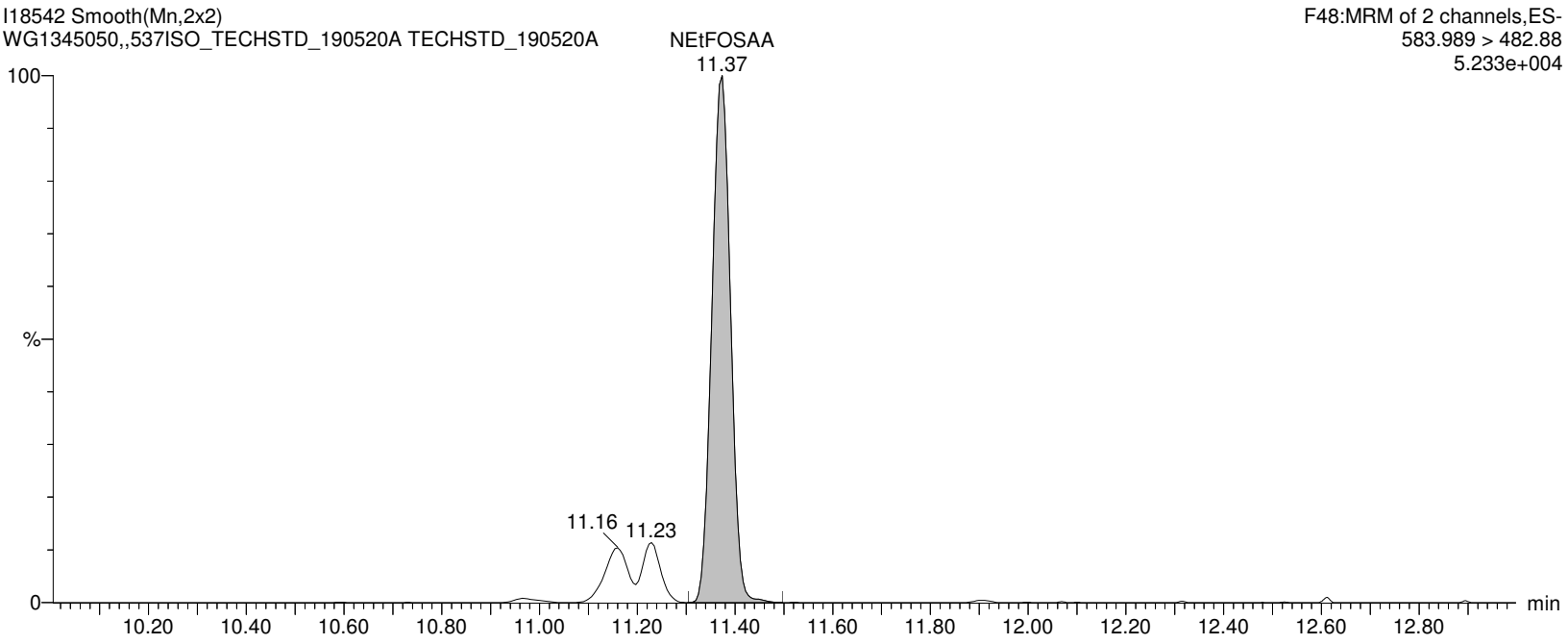




all concentration units in (ng/mL)

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS01	**Calibration Date**	: 03/09/20 12:48		
Lab File ID	: I19069	**Init. Calib. Date(s)**	: 02/27/20	02/27/20	
Sample No	: WG1348805-1	**Init. Calib. Times**	: 14:02	17:04	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.533	0.500	106.7	50-150
Perfluoropentanoic Acid (PFPeA)	0.584	0.500	116.7	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.427	0.440	96.6	50-150
Perfluorohexanoic Acid (PFHxA)	0.593	0.500	118.6	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.593	0.470	126.8	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.502	0.470	106.8	50-150
Perfluoroheptanoic Acid (PFHpA)	0.476	0.500	95.3	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.089	0.086	104.8	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.427	0.370	115.4	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.516	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)			-	50-150
Perfluorooctanoic Acid-Linear (L-PFOA)	0.553		110.6	50-150
Perfluorooctanoic Acid (PFOA)	0.553	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.493	0.480	103.8	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.473	0.480	99.7	50-150
Perfluorononanoic Acid (PFNA)	0.380	0.500	76	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.127	0.098	127.2	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.488	0.365	133.6	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.615	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.467	0.500	93.4	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.626	0.480	130.5	50-150
Perfluorononanesulfonic Acid (PFNS)	0.361	0.480	75.2	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.481	0.500	96.3	50-150
Perfluoroundecanoic Acid (PFUnA)	0.498	0.500	99.5	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.327	0.480	67.9	50-150
Perfluorooctanesulfonamide (FOSA)	0.316	0.500	63.2	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.484	0.500	96.8	50-150
Perfluorododecanoic Acid (PFDoA)	0.520	0.500	104.1	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.549	0.500	109.8	50-150
Perfluorotetradecanoic Acid (PFTA)	0.490	0.500	98	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.075	10.000	100.7	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	9.907	10.000	99.1	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.178	10.000	91.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	7.387	10.000	73.9	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	9.471	10.000	94.7	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.371	10.000	103.7	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	9.375	10.000	93.7	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	10.852	10.000	108.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	11.040	10.000	110.4	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	10.976	10.000	109.8	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.427	10.000	94.3	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	10.843	10.000	108.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	9.264	10.000	92.6	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793	
Project Name	: GROSSINGERS	**Project Number**	: 9313	
Instrument ID	: LCMS01	**Calibration Date**	: 03/09/20 12:48	
Lab File ID	: I19069	**Init. Calib. Date(s)**	: 02/27/20	02/27/20
Sample No	: WG1348805-1	**Init. Calib. Times**	: 14:02	17:04
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	12.120	10.000	121.2	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	11.708	10.000	117.1	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	9.120	10.000	91.2	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.929	10.000	99.3	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.940	10.000	109.4	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.869	10.000	98.7	50-150
M4PFOS	16.220		162.2	
M2PFDA	17.400		174	
M2PFOA	15.711		157.1	
M3PFBA	14.343		143.4	

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS01	**Calibration Date**	: 03/09/20 17:03		
Lab File ID	: I19084	**Init. Calib. Date(s)**	: 02/27/20	02/27/20	
Sample No	: WG1348805-2	**Init. Calib. Times**	: 14:02	17:04	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	9.994	10.000	99.9	70-130
Perfluoropentanoic Acid (PFPeA)	10.231	10.000	102.3	70-130
Perfluorobutanesulfonic Acid (PFBS)	8.999	8.850	101.7	70-130
Perfluorohexanoic Acid (PFHxA)	9.987	10.000	99.9	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	9.797	9.350	104.8	70-130
Perfluoropentanesulfonic Acid (PFPeS)	9.615	9.400	102.3	70-130
Perfluoroheptanoic Acid (PFHpA)	9.313	10.000	93.1	70-130
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	1.800	1.720	105.9	70-130
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	7.981	7.400	107.8	70-130
Perfluorohexanesulfonic Acid (PFHxS)	9.780	9.120	-	70-130
Perfluorooctanoic Acid-Branched (br-PFOA)			-	70-130
Perfluorooctanoic Acid-Linear (L-PFOA)	9.769	10.000	97.7	70-130
Perfluorooctanoic Acid (PFOA)	9.769	10.000	-	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	10.659	9.500	112.2	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	10.246	9.500	107.9	70-130
Perfluorononanoic Acid (PFNA)	10.325	10.000	103.2	70-130
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	2.049	1.960	102.5	70-130
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	7.593	7.300	104	70-130
Perfluorooctanesulfonic Acid (PFOS)	9.642	9.260	-	70-130
Perfluorodecanoic Acid (PFDA)	9.763	10.000	97.6	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	10.128	9.600	105.5	70-130
Perfluorononanesulfonic Acid (PFNS)	11.304	9.600	117.8	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	10.956	10.000	109.6	70-130
Perfluoroundecanoic Acid (PFUnA)	9.863	10.000	98.6	70-130
Perfluorodecanesulfonic Acid (PFDS)	10.227	9.650	106	70-130
Perfluorooctanesulfonamide (FOSA)	9.515	10.000	95.1	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	9.814	10.000	98.1	70-130
Perfluorododecanoic Acid (PFDoA)	10.768	10.000	107.7	70-130
Perfluorotridecanoic Acid (PFTrDA)	10.608	10.000	106.1	70-130
Perfluorotetradecanoic Acid (PFTA)	11.152	10.000	111.5	70-130
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.856	10.000	98.6	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.427	10.000	104.3	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	8.697	10.000	87	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	7.179	10.000	71.8	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	9.115	10.000	91.1	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	9.726	10.000	97.3	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	9.421	10.000	94.2	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.665	10.000	96.6	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	9.721	10.000	97.2	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	10.502	10.000	105	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	10.145	10.000	101.5	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.889	10.000	98.9	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	9.379	10.000	93.8	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793	
Project Name	: GROSSINGERS	**Project Number**	: 9313	
Instrument ID	: LCMS01	**Calibration Date**	: 03/09/20 17:03	
Lab File ID	: I19084	**Init. Calib. Date(s)**	: 02/27/20	02/27/20
Sample No	: WG1348805-2	**Init. Calib. Times**	: 14:02	17:04
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	11.353	10.000	113.5	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	10.414	10.000	104.1	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8.428	10.000	84.3	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	10.465	10.000	104.6	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.073	10.000	100.7	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.281	10.000	92.8	50-150
M4PFOS	15.739		157.4	
M2PFDA	16.312		163.1	
M2PFOA	15.053		150.5	
M3PFBA	12.346		123.5	

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793	
Project Name	: GROSSINGERS	**Project Number**	: 9313	
Instrument ID	: LCMS01	**Calibration Date**	: 03/09/20 20:21	
Lab File ID	: I19096	**Init. Calib. Date(s)**	: 02/27/20	02/27/20
Sample No	: WG1348805-3	**Init. Calib. Times**	: 14:02	17:04
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.497	0.500	99.3	50-150
Perfluoropentanoic Acid (PFPeA)	0.551	0.500	110.1	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.457	0.440	103.3	50-150
Perfluorohexanoic Acid (PFHxA)	0.561	0.500	112.1	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.434	0.470	92.9	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.485	0.470	103.2	50-150
Perfluoroheptanoic Acid (PFHpA)	0.476	0.500	95.2	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.082	0.086	96.7	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.458	0.370	123.9	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.541	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)			-	50-150
Perfluorooctanoic Acid-Linear (L-PFOA)	0.548		109.6	50-150
Perfluorooctanoic Acid (PFOA)	0.548	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.611	0.480	128.7	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.285	0.480	60	50-150
Perfluorononanoic Acid (PFNA)	0.558	0.500	111.6	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.143	0.098	142.8	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.438	0.365	120	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.581	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.595	0.500	119	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.627	0.480	130.7	50-150
Perfluorononanesulfonic Acid (PFNS)	0.407	0.480	84.8	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.643	0.500	128.6	50-150
Perfluoroundecanoic Acid (PFUnA)	0.496	0.500	99.1	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.328	0.480	68	50-150
Perfluorooctanesulfonamide (FOSA)	0.619	0.500	123.7	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.382	0.500	76.4	50-150
Perfluorododecanoic Acid (PFDoA)	0.552	0.500	110.5	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.550	0.500	109.9	50-150
Perfluorotetradecanoic Acid (PFTA)	0.493	0.500	98.6	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.187	10.000	101.9	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.554	10.000	105.5	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.801	10.000	98	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	7.455	10.000	74.5	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	9.482	10.000	94.8	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.152	10.000	101.5	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.110	10.000	101.1	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.704	10.000	97	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	10.158	10.000	101.6	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	10.139	10.000	101.4	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	11.270	10.000	112.7	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.700	10.000	97	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	9.400	10.000	94	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793	
Project Name	: GROSSINGERS	**Project Number**	: 9313	
Instrument ID	: LCMS01	**Calibration Date**	: 03/09/20 20:21	
Lab File ID	: I19096	**Init. Calib. Date(s)**	: 02/27/20	02/27/20
Sample No	: WG1348805-3	**Init. Calib. Times**	: 14:02	17:04
Channel	:			

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.927	10.000	99.3	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	11.345	10.000	113.4	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8.506	10.000	85.1	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.996	10.000	100	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	9.711	10.000	97.1	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.277	10.000	92.8	50-150
M4PFOS	14.017		140.2	
M2PFDA	15.791		157.9	
M2PFOA	14.649		146.5	
M3PFBA	12.513		125.1	

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/10/20 10:15		
Lab File ID	: I20398	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-1	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.480	0.500	96.1	50-150
Perfluoropentanoic Acid (PFPeA)	0.530	0.500	105.9	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.372	0.440	84.1	50-150
Perfluorohexanoic Acid (PFHxA)	0.559	0.500	111.8	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.410	0.470	87.7	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.391	0.470	83.2	50-150
Perfluoroheptanoic Acid (PFHpA)	0.485	0.500	96.9	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.054	0.086	63.1	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.268	0.370	72.5	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.322	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)			-	50-150
Perfluorooctanoic Acid-Linear (L-PFOA)	0.503		100.6	50-150
Perfluorooctanoic Acid (PFOA)	0.503	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.532	0.480	112	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.457	0.480	96.2	50-150
Perfluorononanoic Acid (PFNA)	0.464	0.500	92.9	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.066	0.098	65.7	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.306	0.365	83.8	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.371	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.463	0.500	92.5	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.504	0.480	105.1	50-150
Perfluorononanesulfonic Acid (PFNS)	0.380	0.480	79.2	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.494	0.500	-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)			-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	0.494	0.500	98.9	50-150
Perfluoroundecanoic Acid (PFUnA)	0.459	0.500	91.7	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.388	0.480	80.4	50-150
Perfluorooctanesulfonamide (FOSA)	0.409	0.500	81.7	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.340	0.500	-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)			-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	0.340	0.500	68	50-150
Perfluorododecanoic Acid (PFDoA)	0.467	0.500	93.4	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.536	0.500	107.1	50-150
Perfluorotetradecanoic Acid (PFTA)	0.481	0.500	96.2	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.742	10.000	107.4	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	11.227	10.000	112.3	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.505	10.000	95.1	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	9.268	10.000	92.7	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	11.006	10.000	110.1	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	11.491	10.000	114.9	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	9.979	10.000	99.8	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	11.354	10.000	113.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	8.973	10.000	89.7	50-150

***** Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/10/20 10:15		
Lab File ID	: I20398	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-1	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	11.930	10.000	119.3	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	10.141	10.000	101.4	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	11.049	10.000	110.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	11.696	10.000	117	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.396	10.000	94	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	12.204	10.000	122	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8.380	10.000	83.8	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.954	10.000	99.5	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.643	10.000	106.4	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10.738	10.000	107.4	50-150
M4PFOS	12.606		126.1	
M2PFDA	13.211		132.1	
M2PFOA	11.575		115.8	
M3PFBA	10.830		108.3	

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/10/20 21:04		
Lab File ID	: I20434	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-3	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.463	0.500	92.6	50-150
Perfluoropentanoic Acid (PFPeA)	0.515	0.500	102.9	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.370	0.440	83.7	50-150
Perfluorohexanoic Acid (PFHxA)	0.550	0.500	109.9	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.491	0.470	105	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.359	0.470	76.5	50-150
Perfluoroheptanoic Acid (PFHpA)	0.477	0.500	95.3	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.062	0.086	73.3	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.316	0.370	85.4	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.378	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)			-	50-150
Perfluorooctanoic Acid-Linear (L-PFOA)	0.536		107.2	50-150
Perfluorooctanoic Acid (PFOA)	0.536	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.311	0.480	65.4	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.532	0.480	112	50-150
Perfluorononanoic Acid (PFNA)	0.479	0.500	95.8	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.083	0.098	83.1	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.380	0.365	104.1	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.463	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.471	0.500	94.2	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.342	0.480	71.2	50-150
Perfluorononanesulfonic Acid (PFNS)	0.573	0.480	119.4	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.593	0.500	-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)			-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	0.593	0.500	118.6	50-150
Perfluoroundecanoic Acid (PFUnA)	0.520	0.500	104.1	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.398	0.480	82.4	50-150
Perfluorooctanesulfonamide (FOSA)	0.480	0.500	95.9	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.308	0.500	-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)			-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	0.308	0.500	61.6	50-150
Perfluorododecanoic Acid (PFDoA)	0.484	0.500	96.8	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.588	0.500	117.6	50-150
Perfluorotetradecanoic Acid (PFTA)	0.501	0.500	100.2	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.831	10.000	108.3	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	11.528	10.000	115.3	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.971	10.000	99.7	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	9.955	10.000	99.5	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.624	10.000	106.2	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.935	10.000	109.4	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.702	10.000	107	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	10.822	10.000	108.2	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	10.998	10.000	110	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/10/20 21:04		
Lab File ID	: I20434	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-3	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	11.597	10.000	116	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	10.266	10.000	102.7	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	11.170	10.000	111.7	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	12.082	10.000	120.8	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	9.626	10.000	96.3	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	11.668	10.000	116.7	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8.439	10.000	84.4	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.135	10.000	91.3	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.273	10.000	102.7	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	9.993	10.000	99.9	50-150
M4PFOS	12.434		124.3	
M2PFDA	14.004		140	
M2PFOA	12.504		125	
M3PFBA	10.937		109.4	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	7.251	0.500	72.5	50-150
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	74.998	10.000	37.5*	50-150
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	0.448	0.500	94.7	50-150
Perfluorohexadecanoic Acid (PFHxDA)	0.669	0.500	133.7	50-150
Perfluorooctadecanoic Acid (PFODA)	0.638	0.500	127.5	50-150
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	7.165	10.000	71.6	50-150
Perfluorododecane Sulfonic Acid (PFDoDS)	0.491	0.500	98.3	50-150
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	0.534	0.500	110.8	50-150
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	0.439	0.500	94.2	50-150
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	0.445	0.500	94.5	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/10/20 23:50		
Lab File ID	: I20444	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-4	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	9.032	10.000	90.3	70-130
Perfluoropentanoic Acid (PFPeA)	9.376	10.000	93.8	70-130
Perfluorobutanesulfonic Acid (PFBS)	7.758	8.850	87.7	70-130
Perfluorohexanoic Acid (PFHxA)	8.886	10.000	88.9	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	8.820	9.350	94.3	70-130
Perfluoropentanesulfonic Acid (PFPeS)	7.450	9.400	79.3	70-130
Perfluoroheptanoic Acid (PFHpA)	9.097	10.000	91	70-130
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	1.404	1.720	82.6	70-130
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	6.638	7.400	89.7	70-130
Perfluorohexanesulfonic Acid (PFHxS)	8.042	9.120	-	70-130
Perfluorooctanoic Acid-Branched (br-PFOA)			-	70-130
Perfluorooctanoic Acid-Linear (L-PFOA)	8.946	10.000	89.5	70-130
Perfluorooctanoic Acid (PFOA)	8.946	10.000	-	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	9.992	9.500	105.2	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	9.326	9.500	98.2	70-130
Perfluorononanoic Acid (PFNA)	9.236	10.000	92.4	70-130
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	1.672	1.960	83.6	70-130
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	6.504	7.300	89.1	70-130
Perfluorooctanesulfonic Acid (PFOS)	8.176	9.260	-	70-130
Perfluorodecanoic Acid (PFDA)	9.264	10.000	92.6	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	9.312	9.600	97	70-130
Perfluorononanesulfonic Acid (PFNS)	9.480	9.600	98.8	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	9.896	10.000	-	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)			-	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	9.896	10.000	99	70-130
Perfluoroundecanoic Acid (PFUnA)	9.540	10.000	95.4	70-130
Perfluorodecanesulfonic Acid (PFDS)	9.362	9.650	97	70-130
Perfluorooctanesulfonamide (FOSA)	8.780	10.000	87.8	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	8.789	10.000	-	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)			-	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	8.789	10.000	87.9	70-130
Perfluorododecanoic Acid (PFDoA)	9.545	10.000	95.5	70-130
Perfluorotridecanoic Acid (PFTrDA)	10.778	10.000	107.8	70-130
Perfluorotetradecanoic Acid (PFTA)	9.671	10.000	96.7	70-130
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.849	10.000	108.5	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	11.477	10.000	114.8	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	10.750	10.000	107.5	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	12.382	10.000	123.8	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.900	10.000	109	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	11.064	10.000	110.6	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	11.530	10.000	115.3	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	11.341	10.000	113.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	12.232	10.000	122.3	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/10/20 23:50		
Lab File ID	: I20444	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-4	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	11.681	10.000	116.8	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	11.426	10.000	114.3	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	11.035	10.000	110.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	14.191	10.000	141.9	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	10.928	10.000	109.3	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	11.795	10.000	117.9	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8.329	10.000	83.3	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.794	10.000	97.9	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.782	10.000	107.8	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10.640	10.000	106.4	50-150
M4PFOS	11.337		113.4	
M2PFDA	13.622		136.2	
M2PFOA	12.175		121.8	
M3PFBA	10.940		109.4	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	211.308	10.000	105.7	70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	109.580	10.000	54.8	50-150
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	8.287	10.000	87.6	70-130
Perfluorohexadecanoic Acid (PFHxDA)	10.846	10.000	108.5	70-130
Perfluorooctadecanoic Acid (PFODA)	12.136	10.000	121.4	70-130
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	8.035	10.000	80.4	50-150
Perfluorododecane Sulfonic Acid (PFDoDS)	10.933	10.000	109.3	70-130
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	10.632	10.000	110.3	70-130
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	8.694	10.000	93.3	70-130
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	8.612	10.000	91.4	70-130

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/11/20 03:27		
Lab File ID	: I20457	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-5	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.466	0.500	93.2	50-150
Perfluoropentanoic Acid (PFPeA)	0.521	0.500	104.3	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.411	0.440	92.8	50-150
Perfluorohexanoic Acid (PFHxA)	0.543	0.500	108.7	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.409	0.470	87.5	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.298	0.470	63.4	50-150
Perfluoroheptanoic Acid (PFHpA)	0.484	0.500	96.7	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.058	0.086	68.4	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.238	0.370	64.3	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.296	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)			-	50-150
Perfluorooctanoic Acid-Linear (L-PFOA)	0.491		98.3	50-150
Perfluorooctanoic Acid (PFOA)	0.491	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.454	0.480	95.7	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.426	0.480	89.6	50-150
Perfluorononanoic Acid (PFNA)	0.472	0.500	94.4	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.019	0.098	18.8*	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.253	0.365	69.3	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.272	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.493	0.500	98.6	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.366	0.480	76.3	50-150
Perfluorononanesulfonic Acid (PFNS)	0.354	0.480	73.8	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.732	0.500	-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)			-	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	0.732	0.500	146.3	50-150
Perfluoroundecanoic Acid (PFUnA)	0.517	0.500	103.5	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.487	0.480	100.9	50-150
Perfluorooctanesulfonamide (FOSA)	0.425	0.500	85.1	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.512	0.500	-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)			-	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	0.512	0.500	102.5	50-150
Perfluorododecanoic Acid (PFDoA)	0.528	0.500	105.6	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.577	0.500	115.5	50-150
Perfluorotetradecanoic Acid (PFTA)	0.527	0.500	105.4	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	10.742	10.000	107.4	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	11.301	10.000	113	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	9.728	10.000	97.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	10.258	10.000	102.6	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	10.799	10.000	108	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	10.990	10.000	109.9	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	10.565	10.000	105.7	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	11.187	10.000	111.9	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	10.417	10.000	104.2	50-150

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Soils Engineering Services, Inc.	**Lab Number**	: L2009793		
Project Name	: GROSSINGERS	**Project Number**	: 9313		
Instrument ID	: LCMS02	**Calibration Date**	: 03/11/20 03:27		
Lab File ID	: I20457	**Init. Calib. Date(s)**	: 11/18/19	11/18/19	
Sample No	: WG1348954-5	**Init. Calib. Times**	: 10:24	12:49	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	11.601	10.000	116	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	10.754	10.000	107.5	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	11.068	10.000	110.7	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	12.468	10.000	124.7	50-150
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	10.426	10.000	104.3	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	11.861	10.000	118.6	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8.564	10.000	85.6	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	9.030	10.000	90.3	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	10.132	10.000	101.3	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	10.356	10.000	103.6	50-150
M4PFOS	12.841		128.4	
M2PFDA	14.517		145.2	
M2PFOA	12.740		127.4	
M3PFBA	11.498		115	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	7.973	0.500	79.7	50-150
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	73.651	10.000	36.8*	50-150
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	0.440	0.500	93	50-150
Perfluorohexadecanoic Acid (PFHxDA)	0.960	0.500	191.9*	50-150
Perfluorooctadecanoic Acid (PFODA)	0.822	0.500	164.5*	50-150
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	6.121	10.000	61.2	50-150
Perfluorododecane Sulfonic Acid (PFDoDS)	0.535	0.500	107.1	50-150
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	0.378	0.500	78.4	50-150
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	0.478	0.500	102.6	50-150
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	0.481	0.500	102	50-150

*** Value outside of QC limits.**

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805-1.qld
Last Altered: Tuesday, March 10, 2020 12:33:31 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:11:25 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

ID: WG1348805-1,537ILOW
Name: I19069
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.21	212.926 > 169.111	2513		0.533		na	106.7
2	M3PFBA	INT STD	2.21	215.926 > 172.122	56400		14.343		na	143.4
3	MPFBA	INT STD	2.21	216.926 > 172.137	65109		10.075		na	100.7
4	PFPeA	2706-90-3	5.16	262.926 > 219.002	3449	M4	0.584		na	116.7
5	M5PFPEA	INT STD	5.16	267.989 > 223.081	84945		9.907		na	99.1
6	PFBS	375-73-5	5.83	298.926 > 79.923	625		0.427	2.07	NO	96.6
7	M3PFBS	INT STD	5.83	301.989 > 80.254	16222		9.178		na	91.8
8	4:2FTS	757124-72-4	7.00	326.926 > 306.957	329		0.593	2.05	NO	126.8
9	M2-4:2FTS	INT STD	7.00	329.117 > 309.079	6801		7.387		na	73.9
10	PFHxA	307-24-4	7.08	312.989 > 269.028	5038		0.593	17.44	NO	118.6
11	M5PFHxA	INT STD	7.08	317.989 > 273.045	102494		9.471		na	94.7
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	707		0.502	2.69	NO	106.8
13	PFHpA	375-85-9	8.35	362.926 > 319.014	5691		0.476	6.05	NO	95.3
14	M4PFHpA	INT STD	8.35	366.926 > 321.979	130202		10.371		na	103.7
15	br-PFHxS	355-46-4	8.27	398.904 > 79.915	97	M2	0.089		YES	104.8
16	L-PFHxS	355-46-4	8.51	398.904 > 79.915	469		0.427		YES	115.4
17	PFHxS	355-46-4		398.904 > 79.915	566		0.516		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	14844		9.375		na	93.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.29	412.989 > 368.9	6511		0.553	9.44	NO	110.6
21	M2PFOA	INT STD	9.30	415.032 > 369.968	132182		15.711		na	157.1
22	PFOA	335-67-1		412.989 > 368.9	6511		0.553		na	
23	M8PFOA	INT STD	9.29	420.989 > 375.979	136789		10.852		na	108.5
24	6:2FTS	27619-97-2	9.25	426.989 > 406.921	74		0.493	0.80	NO	103.8
25	M2-6:2FTS	INT STD	9.25	428.989 > 408.917	6326		11.040		na	110.4
26	PFHpS	375-92-8	9.40	448.926 > 80.257	357		0.473	0.79	NO	99.7
27	PFNA	375-95-1	10.05	462.989 > 418.931	3825		0.380	3.76	NO	76.0
28	M9PFNA	INT STD	10.04	472.053 > 426.947	135258		10.976		na	109.8
29	br-PFOS	1763-23-1	9.91	498.968 > 79.918	141	M5	0.127	3.90	NO	127.2
30	L-PFOS	1763-23-1	10.09	498.968 > 79.918	396		0.488	1.39	NO	133.6
31	PFOS	1763-23-1		498.968 > 79.918	538		0.615		na	
32	M4PFOS	INT STD	10.09	503.032 > 80.306	13777		16.220		na	162.2
33	M8PFOS	INT STD	10.09	507.053 > 80.294	15083		9.427		na	94.3
34	PFDA	335-76-2	10.66	513.053 > 468.906	4913		0.467	6.93	NO	93.4
35	M2PFDA	INT STD	10.66	515.053 > 469.934	115096		17.400		na	174.0
36	M6PFDA	INT STD	10.66	519.053 > 473.931	137311		10.843		na	108.4
37	8:2FTS	39108-34-4	10.66	527.032 > 507.079	135		0.626	2.10	NO	130.5
38	M2-8:2FTS	INT STD	10.66	529.053 > 508.945	3210		9.264		na	92.6
39	PFNS	68259-12-1	10.68	548.989 > 80.249	368		0.361	1.16	NO	75.2

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805-1.qld
Last Altered: Tuesday, March 10, 2020 12:33:31 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:11:25 Eastern Daylight Time

ID: WG1348805-1,537ILOW
Name: I19069
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	20332		12.120		na	121.2
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	585		0.481	2.77	NO	96.3
42	PFUnA	2058-94-8	11.20	562.989 > 518.903	6038		0.498	7.72	NO	99.5
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	130281		11.708		na	117.1
44	PFDS	335-77-3	11.21	598.926 > 80.314	325		0.327	1.59	NO	67.9
45	FOSA	754-91-6	11.10	497.989 > 78.245	1205		0.316		YES	63.2
46	M8FOSA	INT STD	11.10	506.053 > 78.286	46284		9.120		na	91.2
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	12146		9.929		na	99.3
48	NEtFOSAA	2991-50-6	11.34	583.989 > 418.927	501		0.484	3.13	NO	96.8
49	PFDoA	307-55-1	11.67	612.989 > 568.967	6184		0.520	17.12	NO	104.1
50	MPFDOA	INT STD	11.67	614.989 > 569.92	130884		10.940		na	109.4
51	PFTrDA	72629-94-8	12.08	663.053 > 618.969	6530		0.549		YES	109.8
52	PFTA	376-06-7	12.43	713.053 > 668.976	4830		0.490	8.84	NO	98.0
53	M2PFTEDA	INT STD	12.43	715.053 > 669.945	133070		9.869		na	98.7

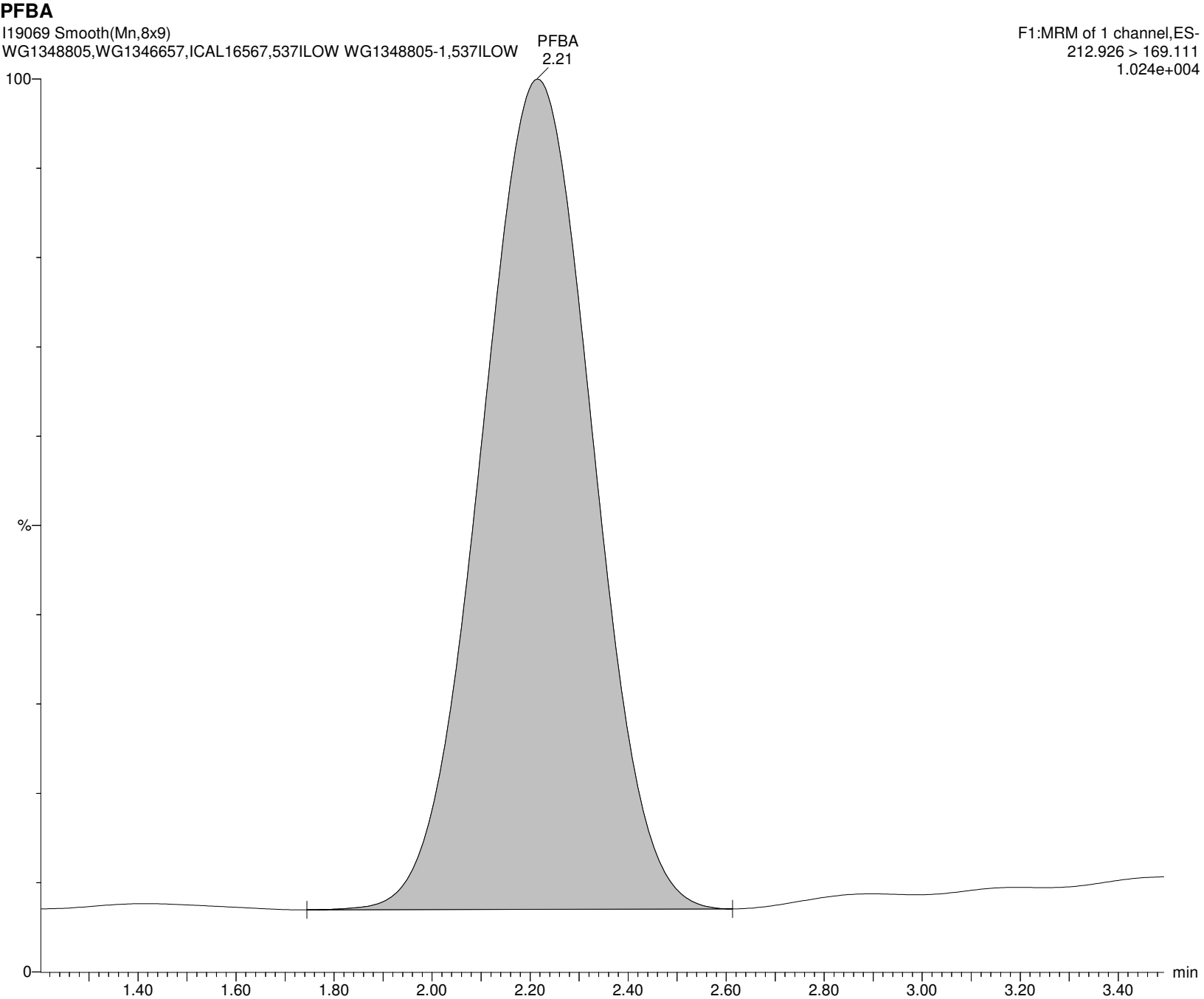
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805-1.qld
Last Altered: Tuesday, March 10, 2020 12:33:31 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:11:25 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

Name: I19069
ID: WG1348805-1,537ILOW
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I19069
ID: WG1348805-1,537ILOW
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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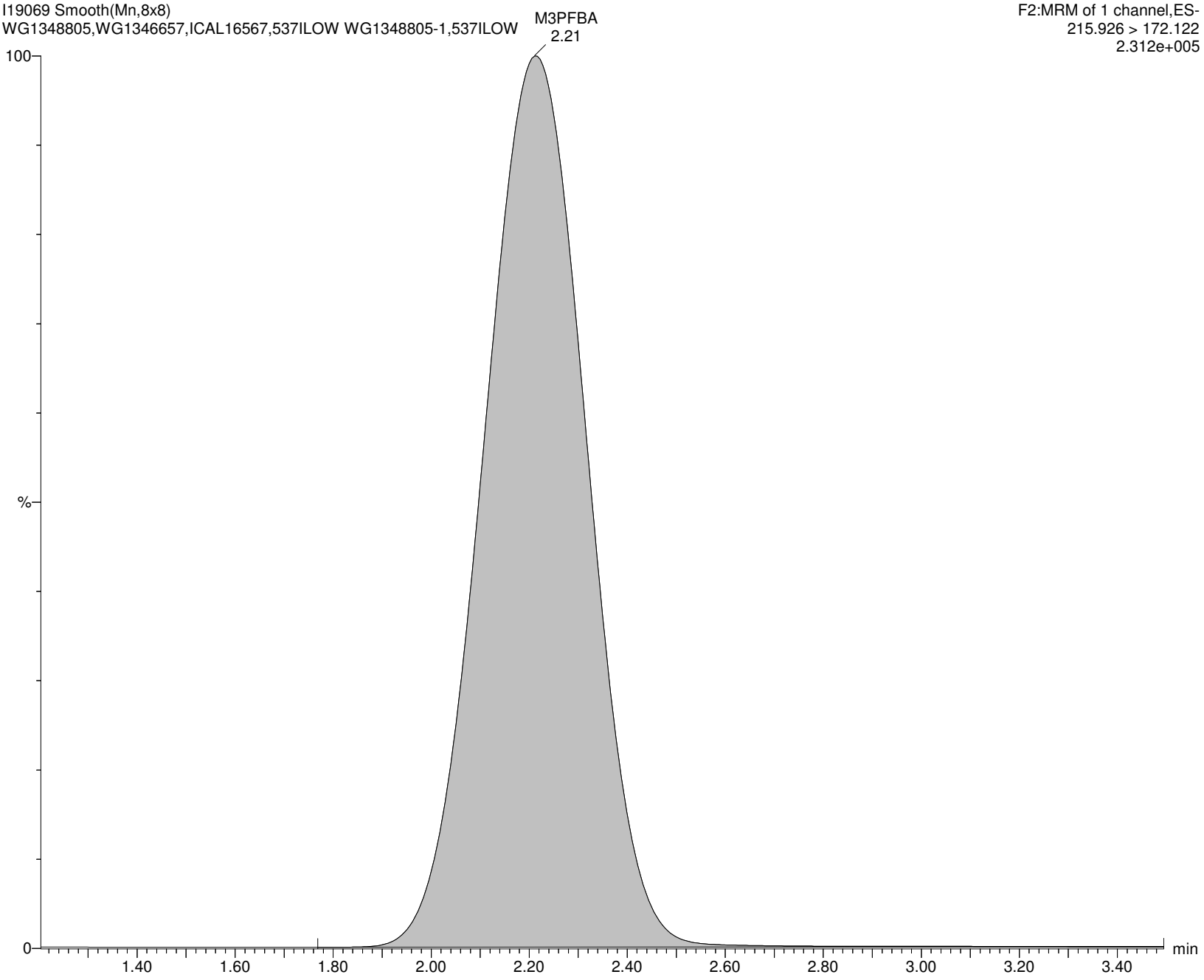

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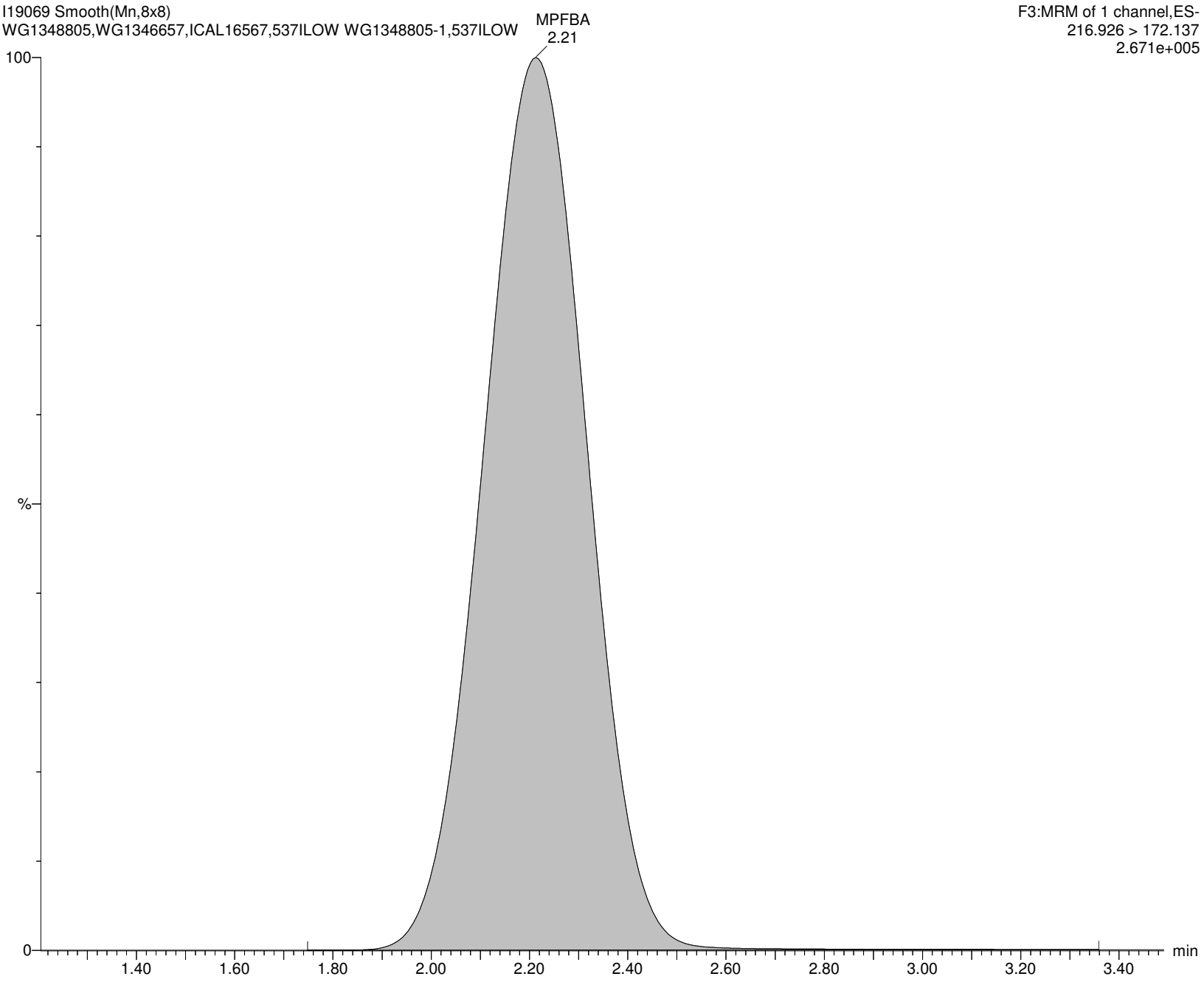

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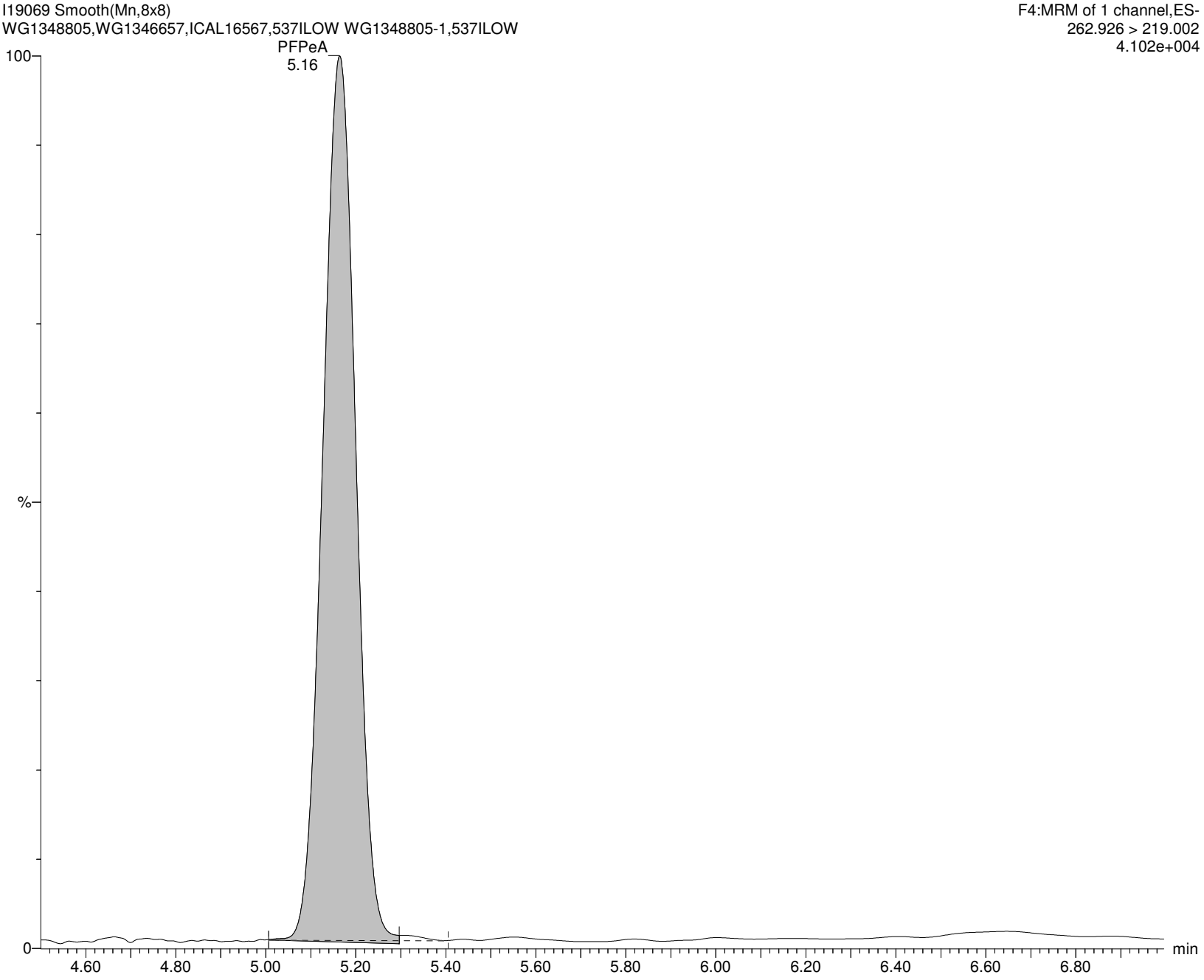

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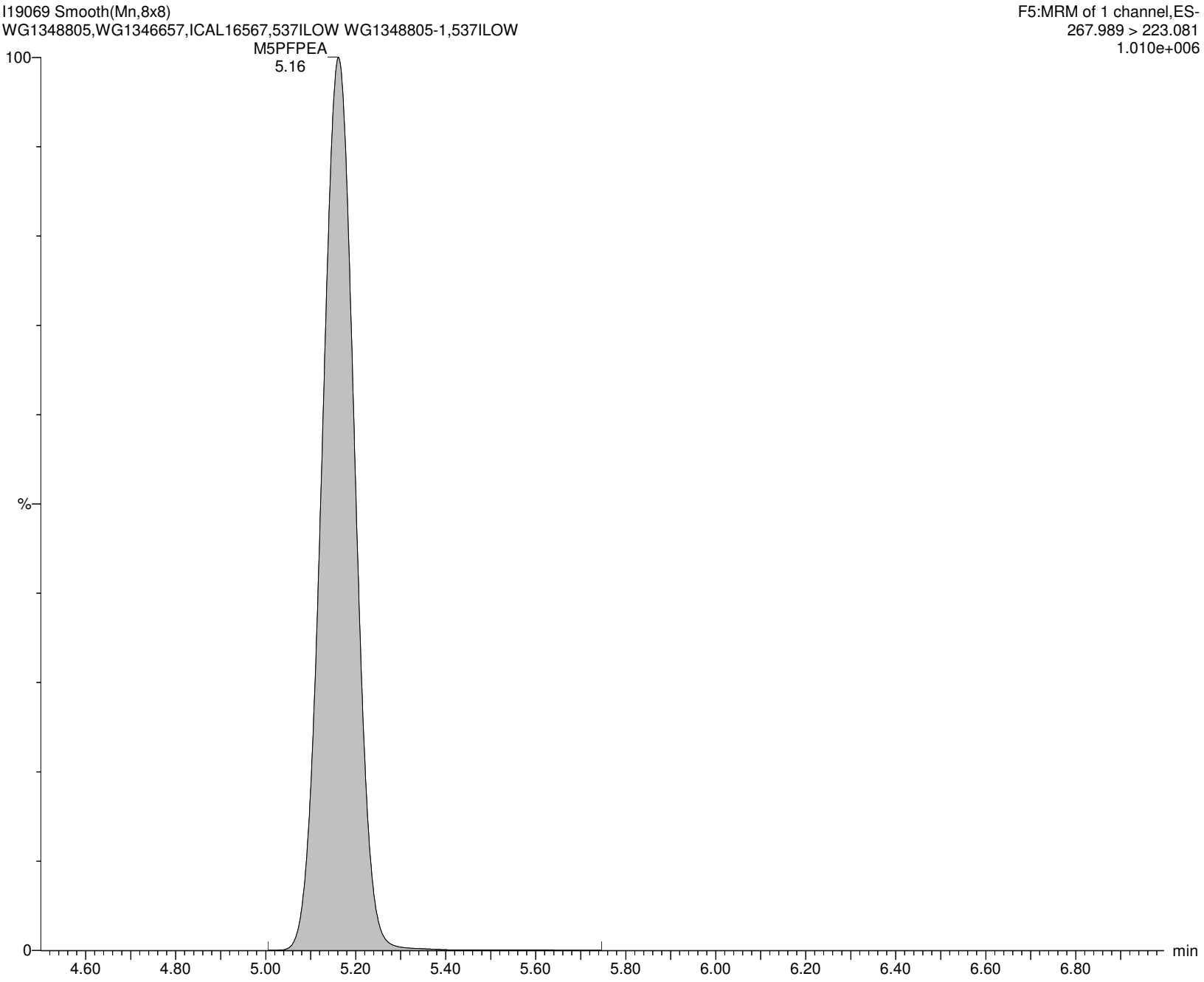

all concentration units in (ng/mL)

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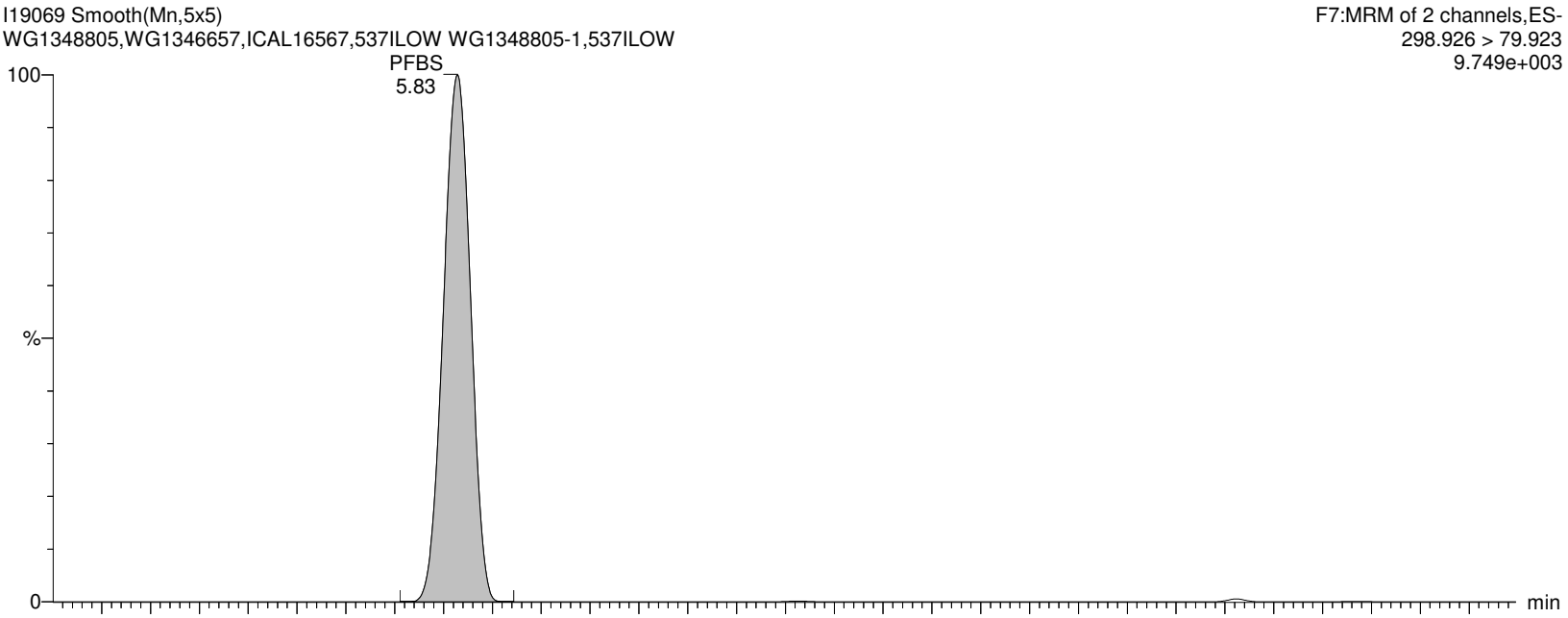

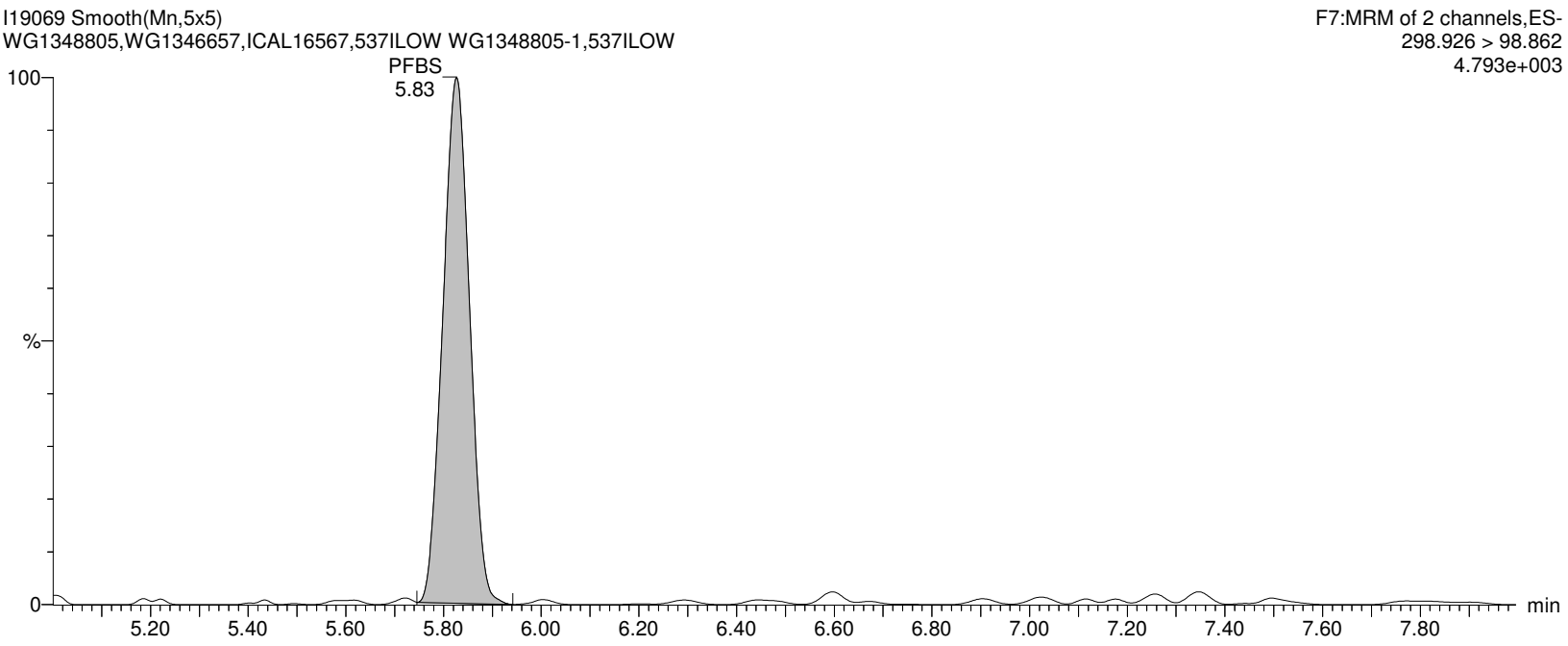

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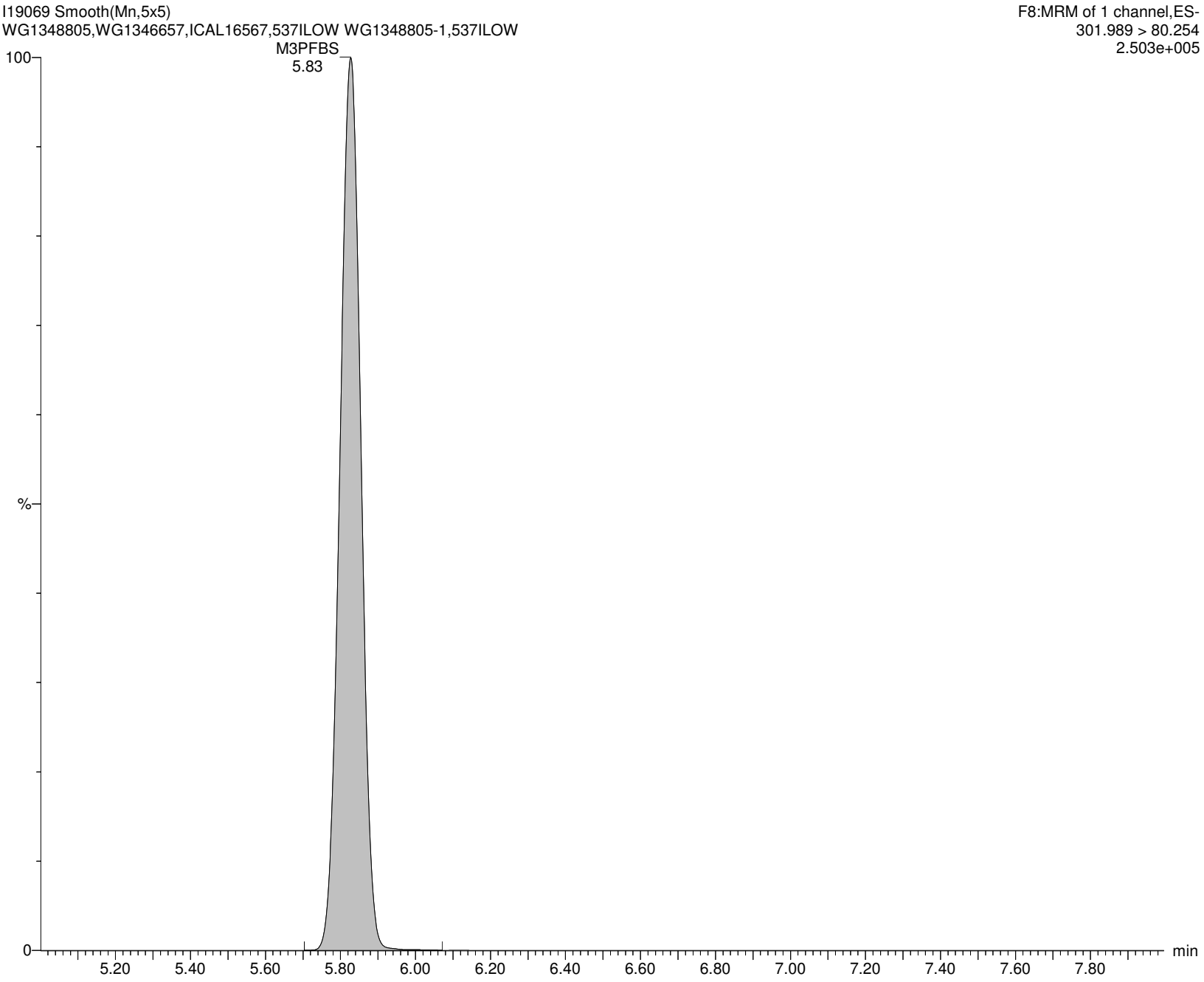

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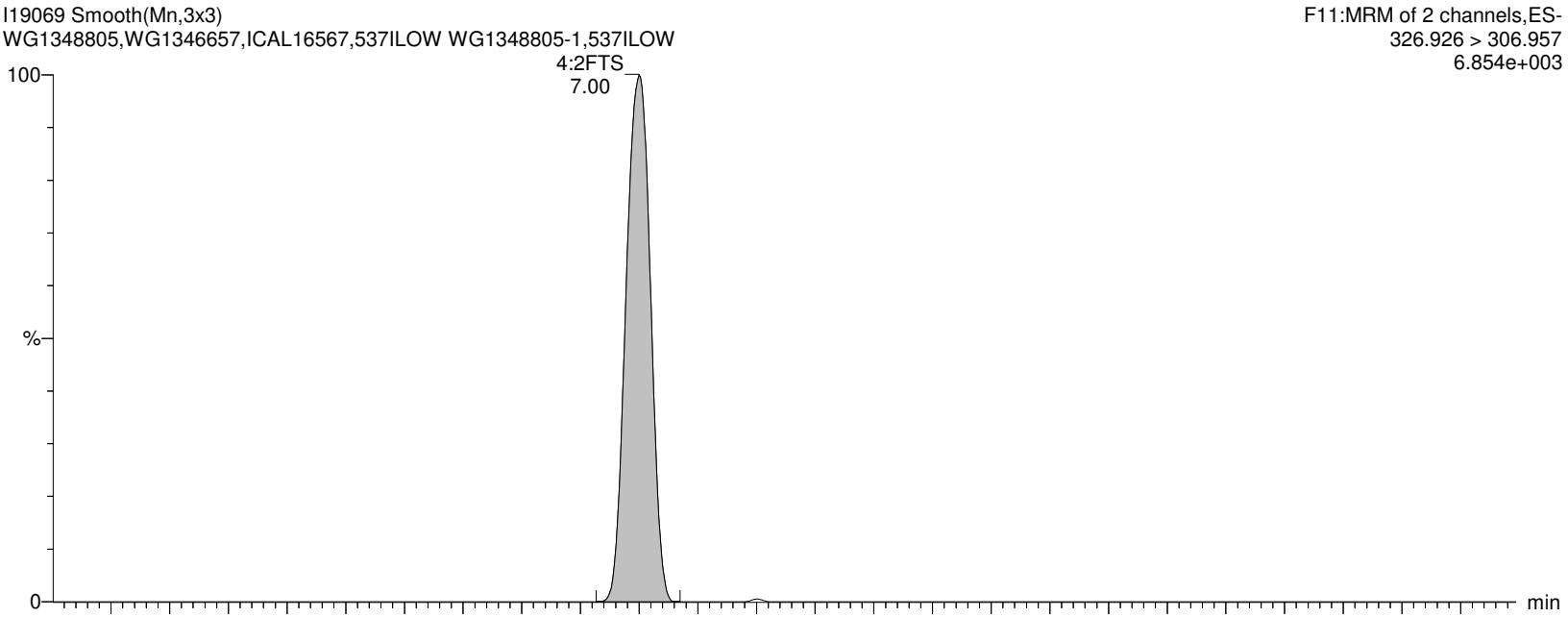

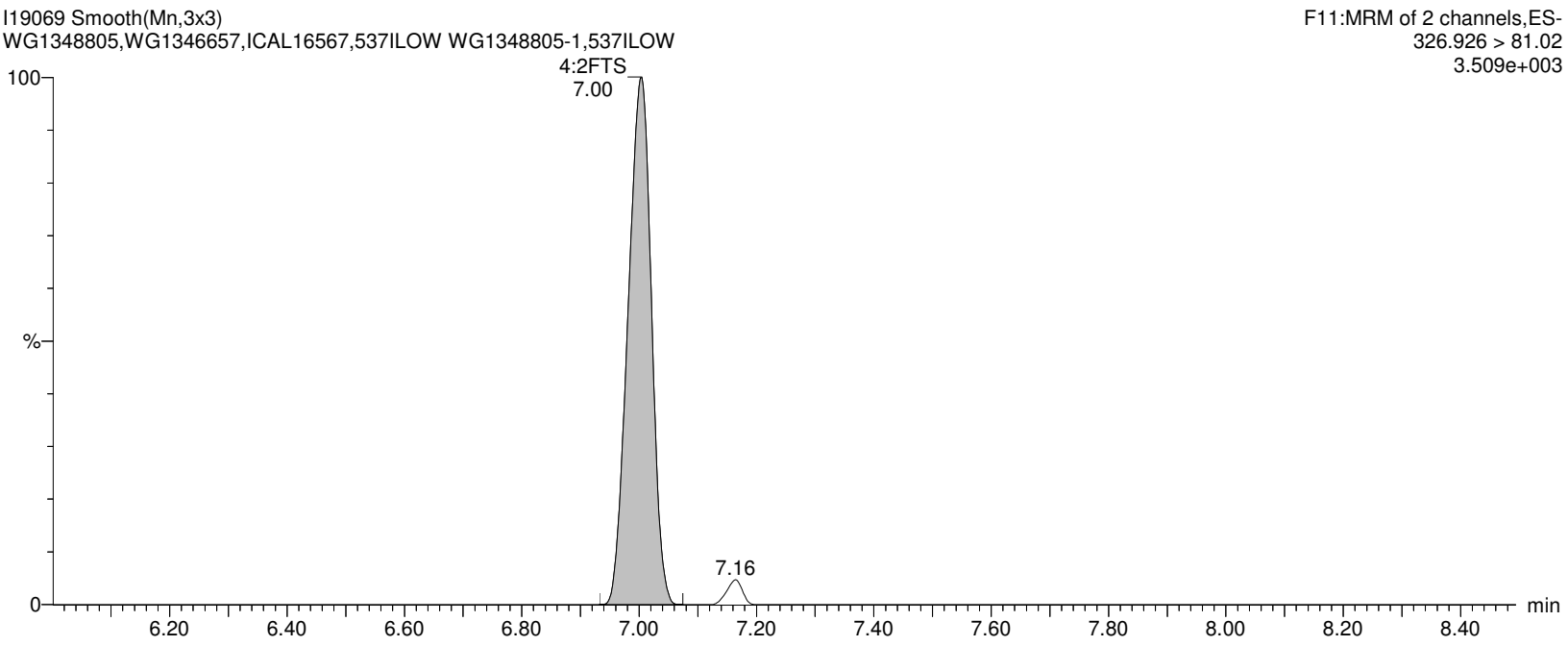

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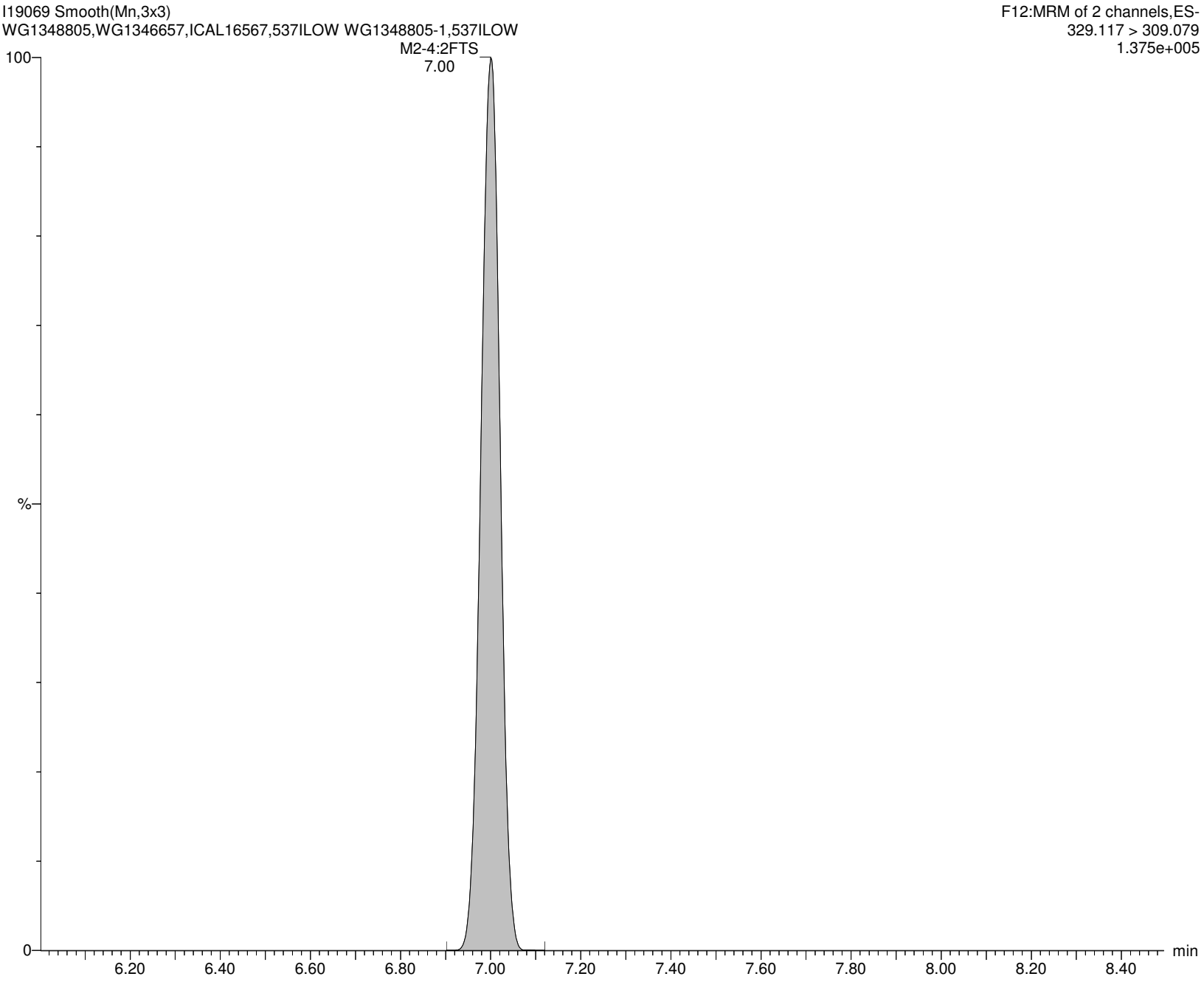

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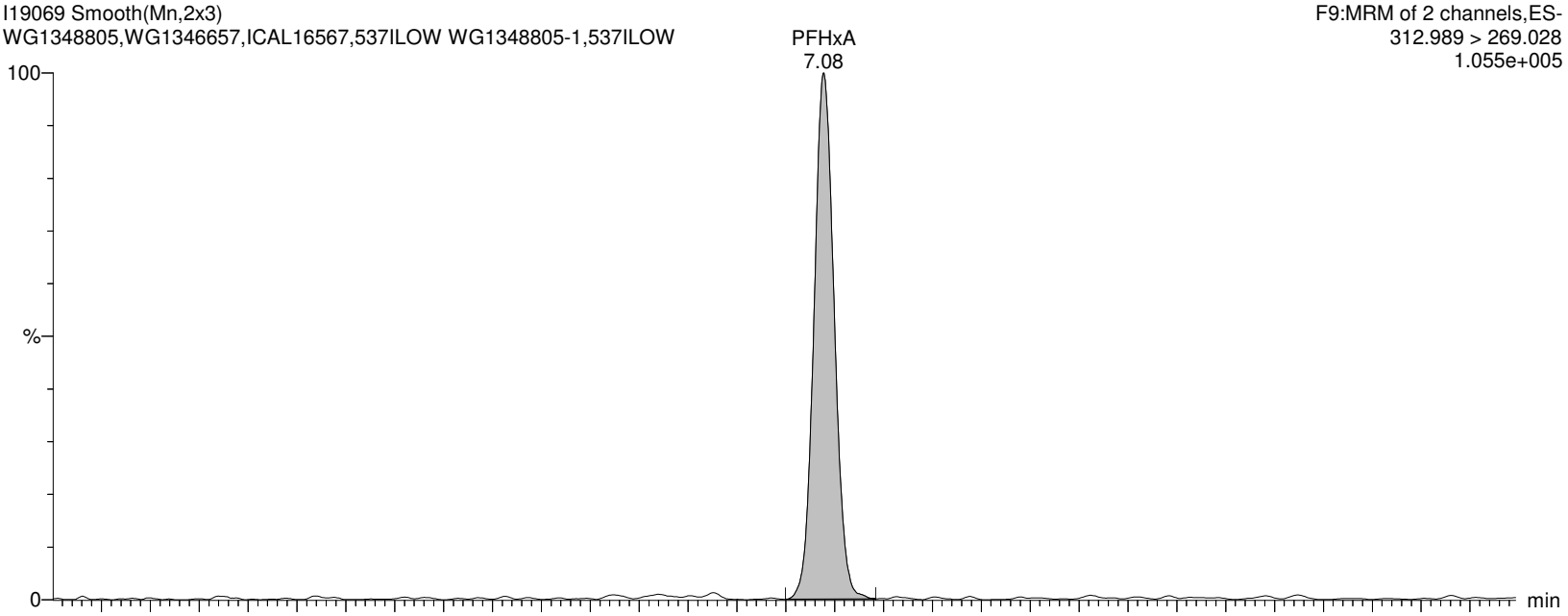

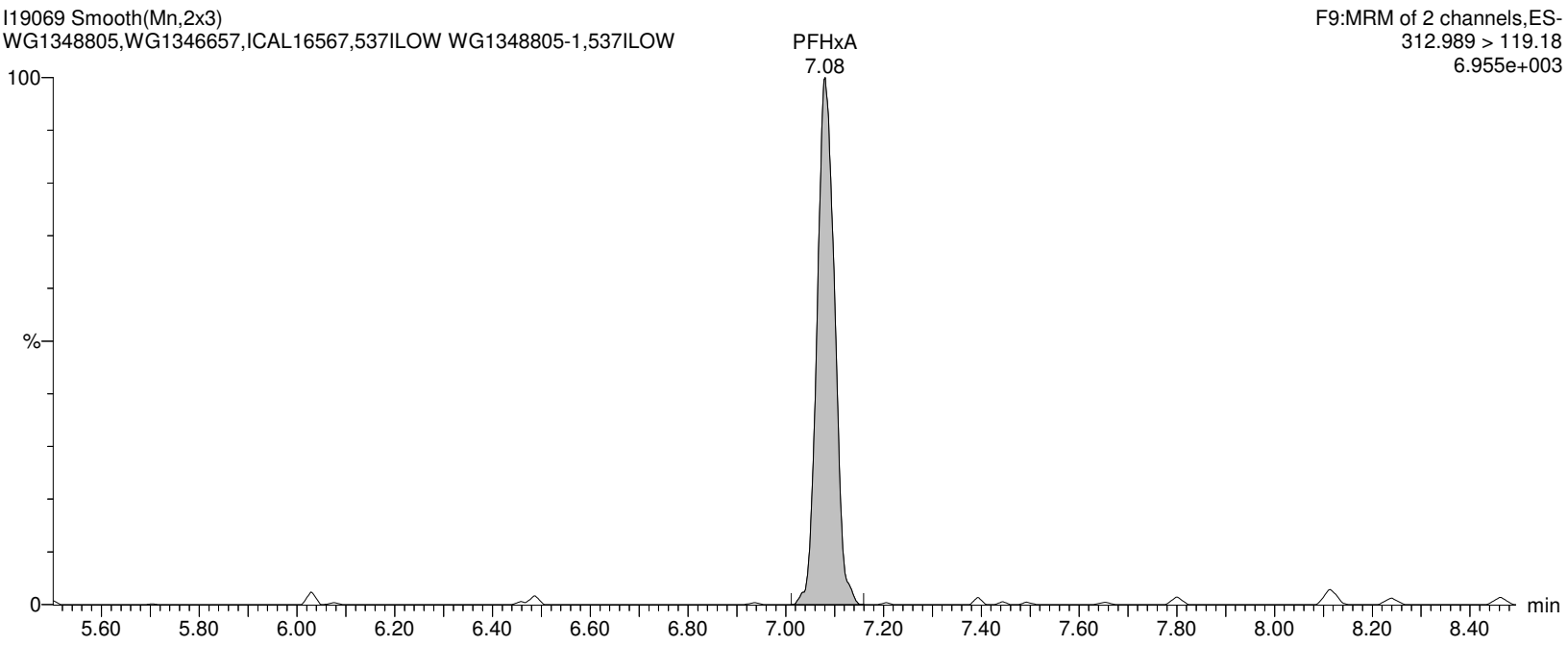

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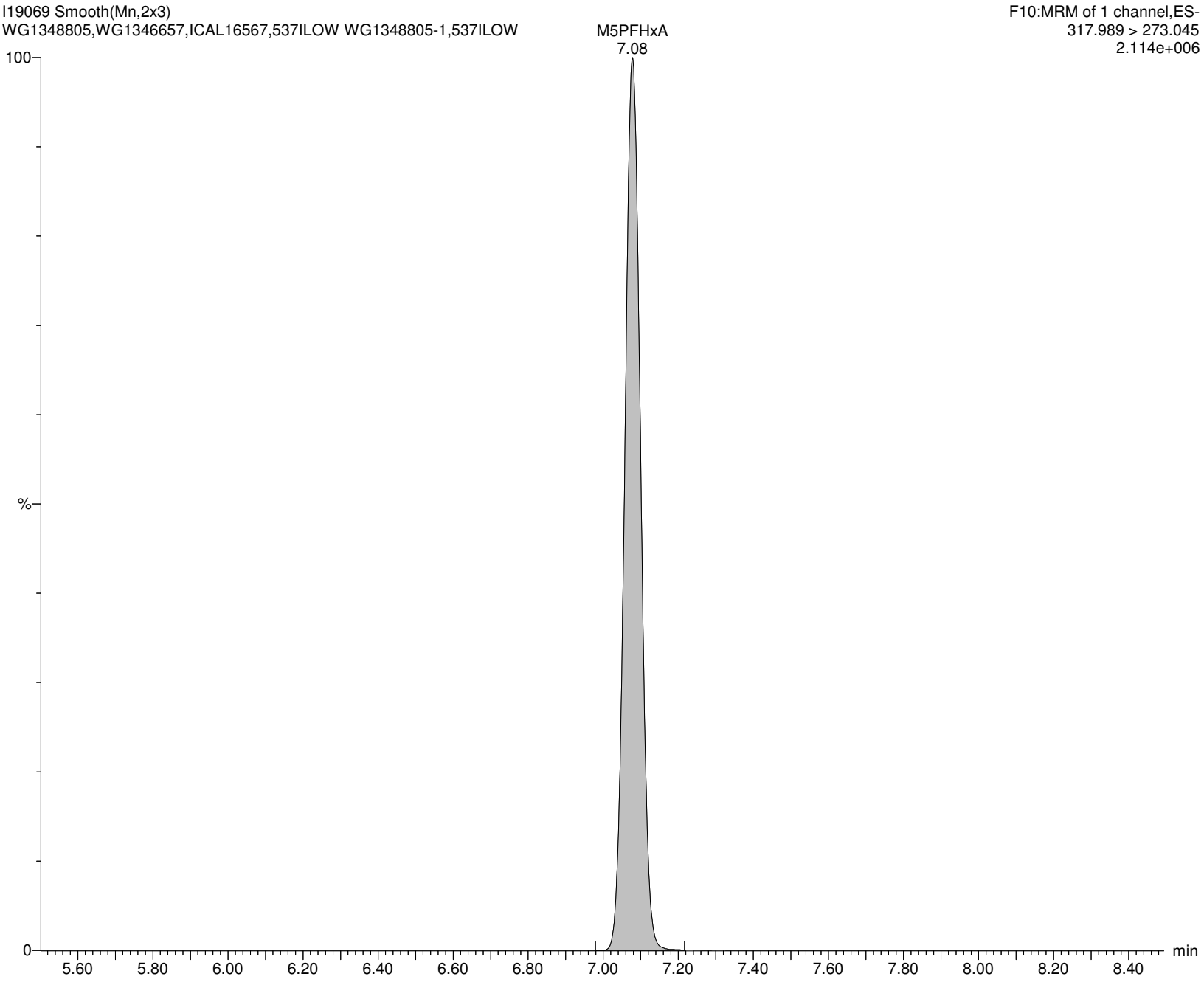

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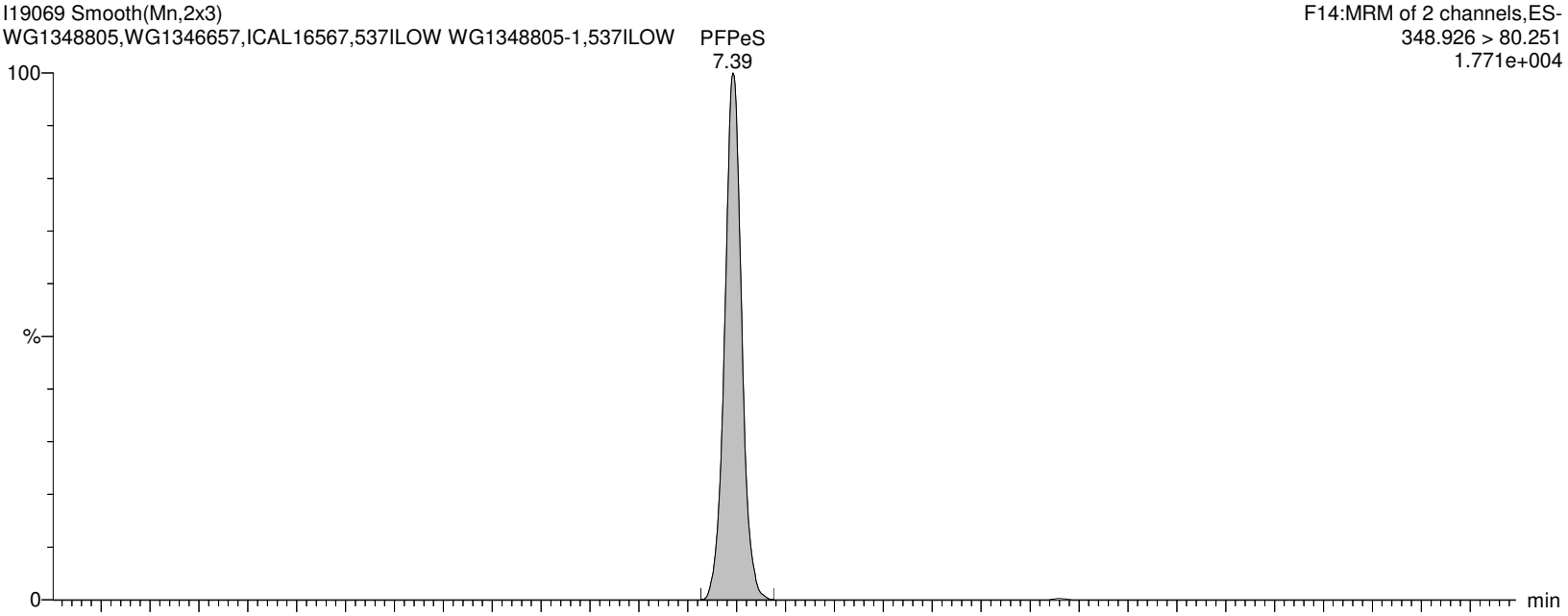

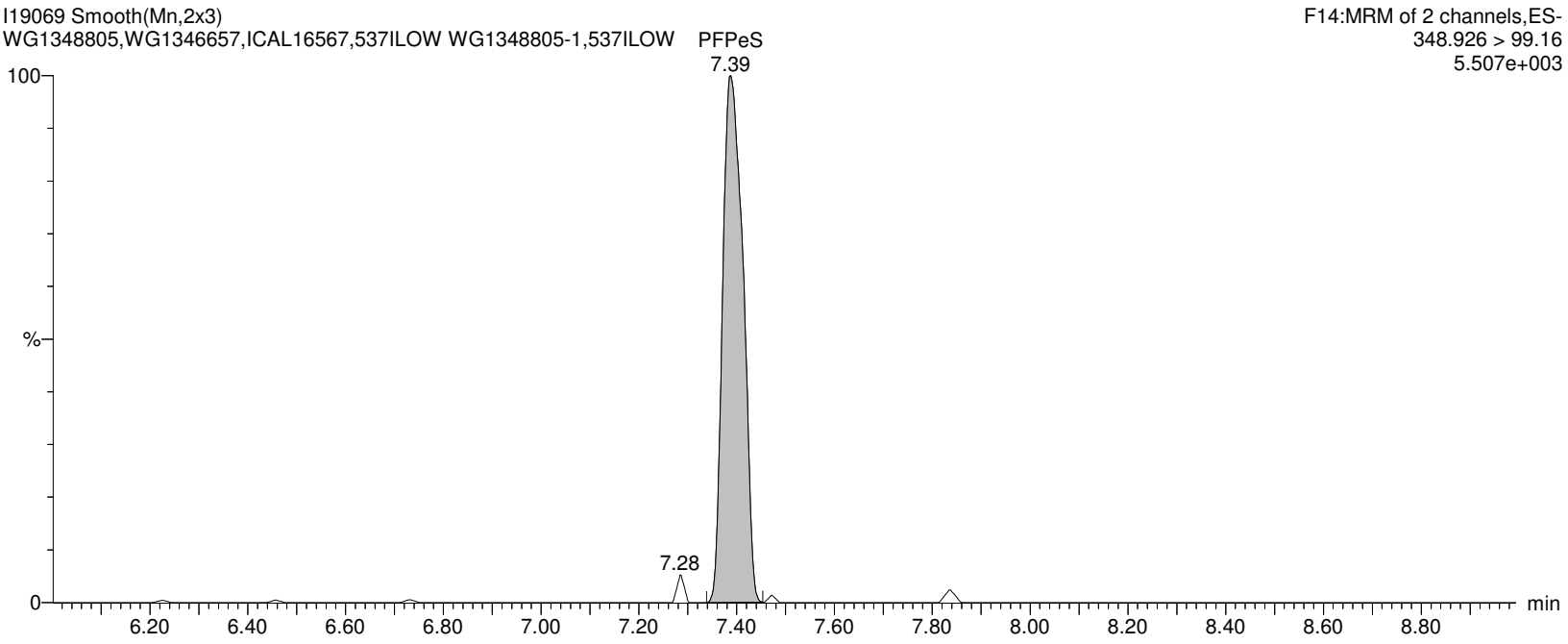

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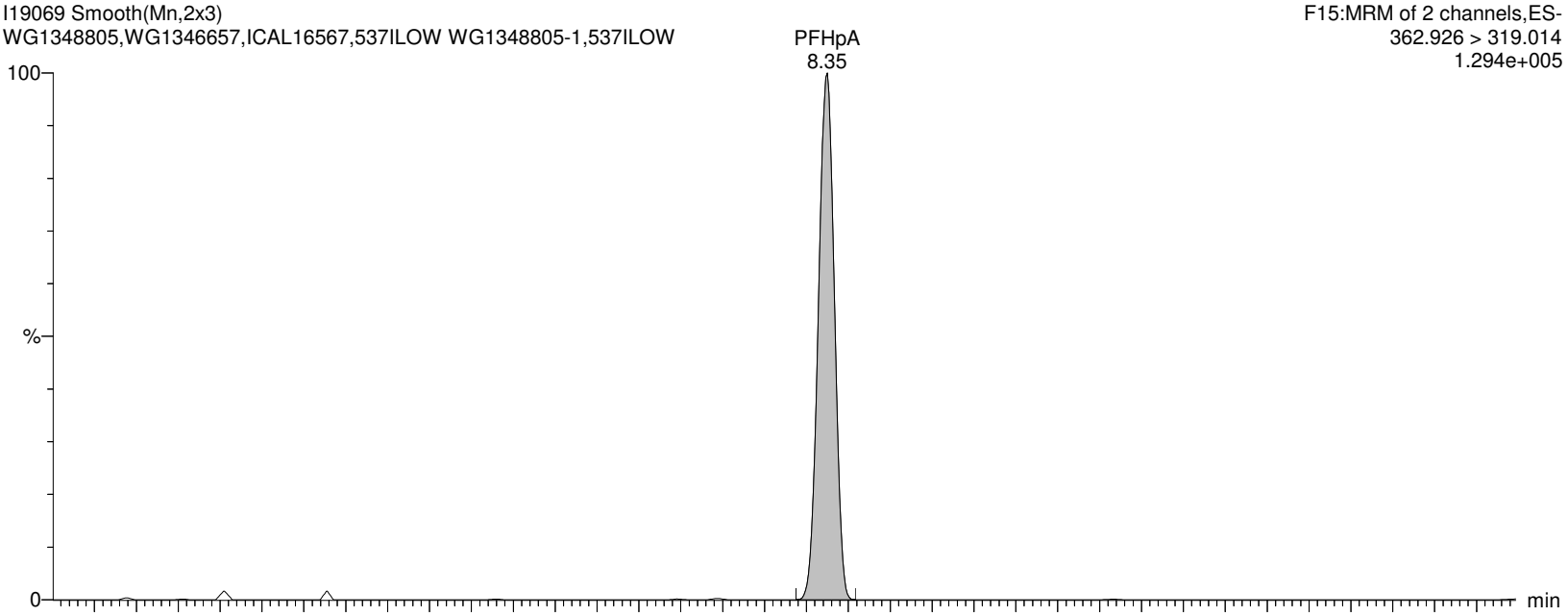

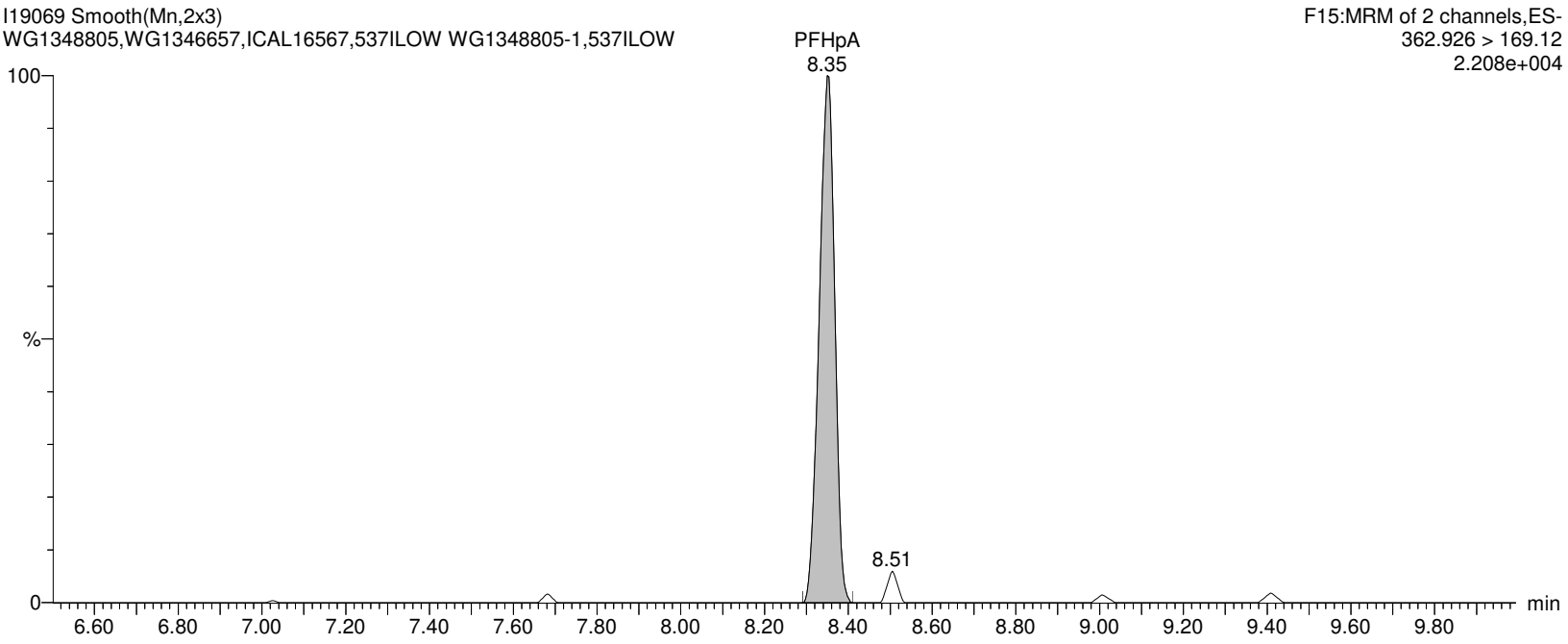

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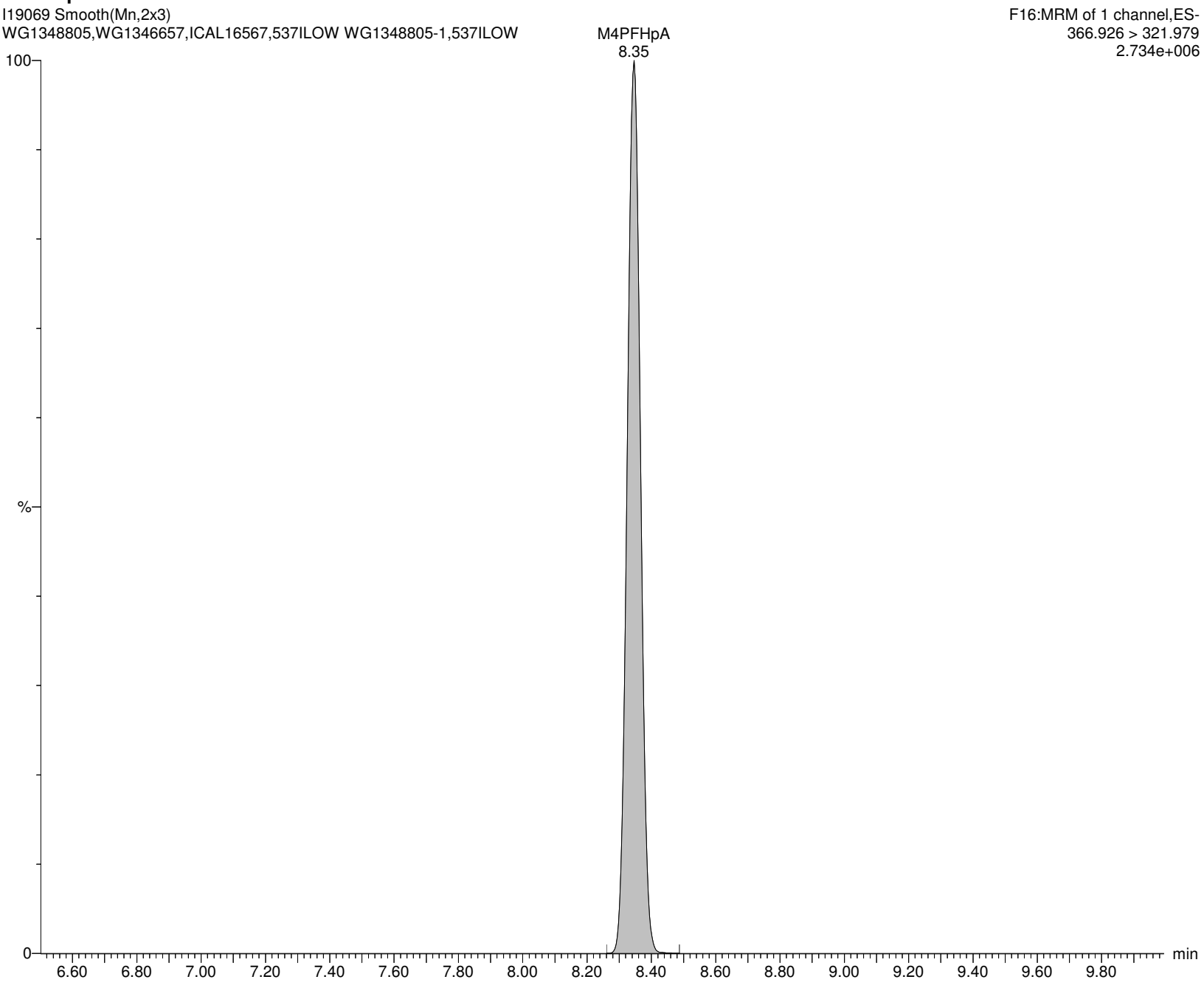

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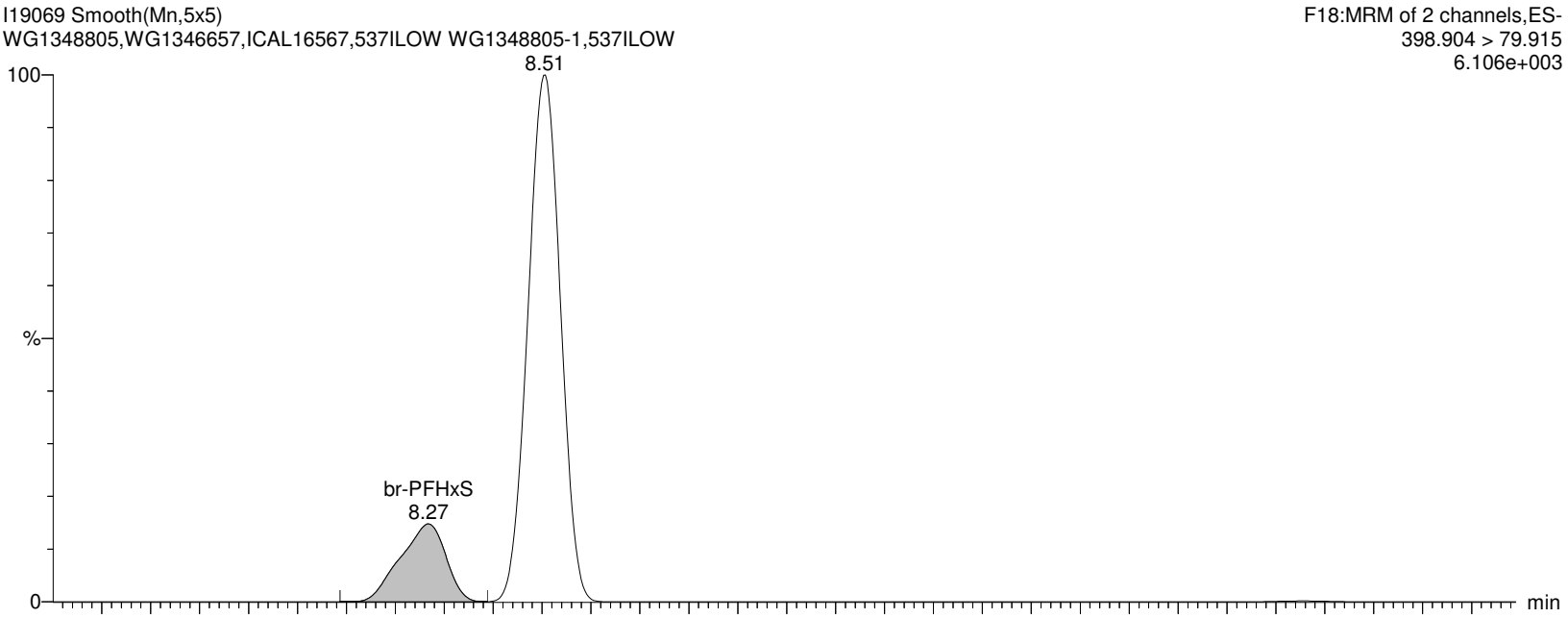

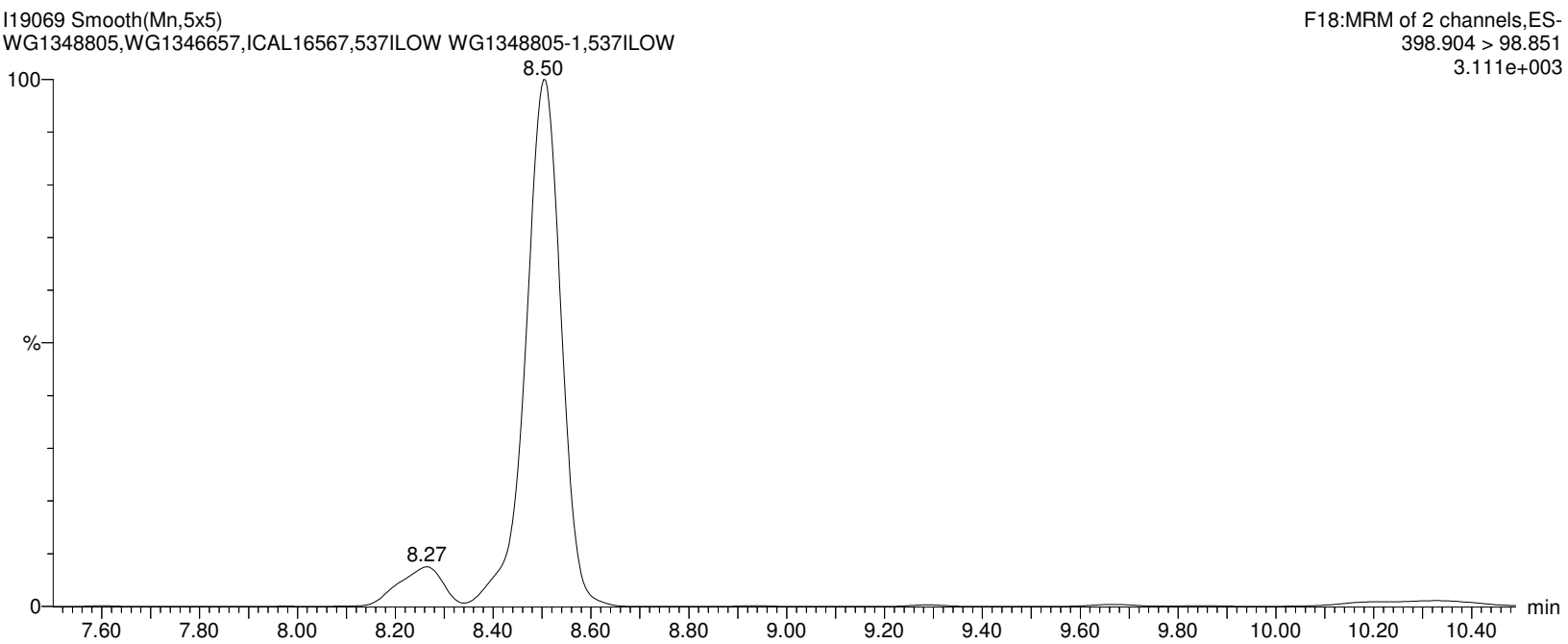

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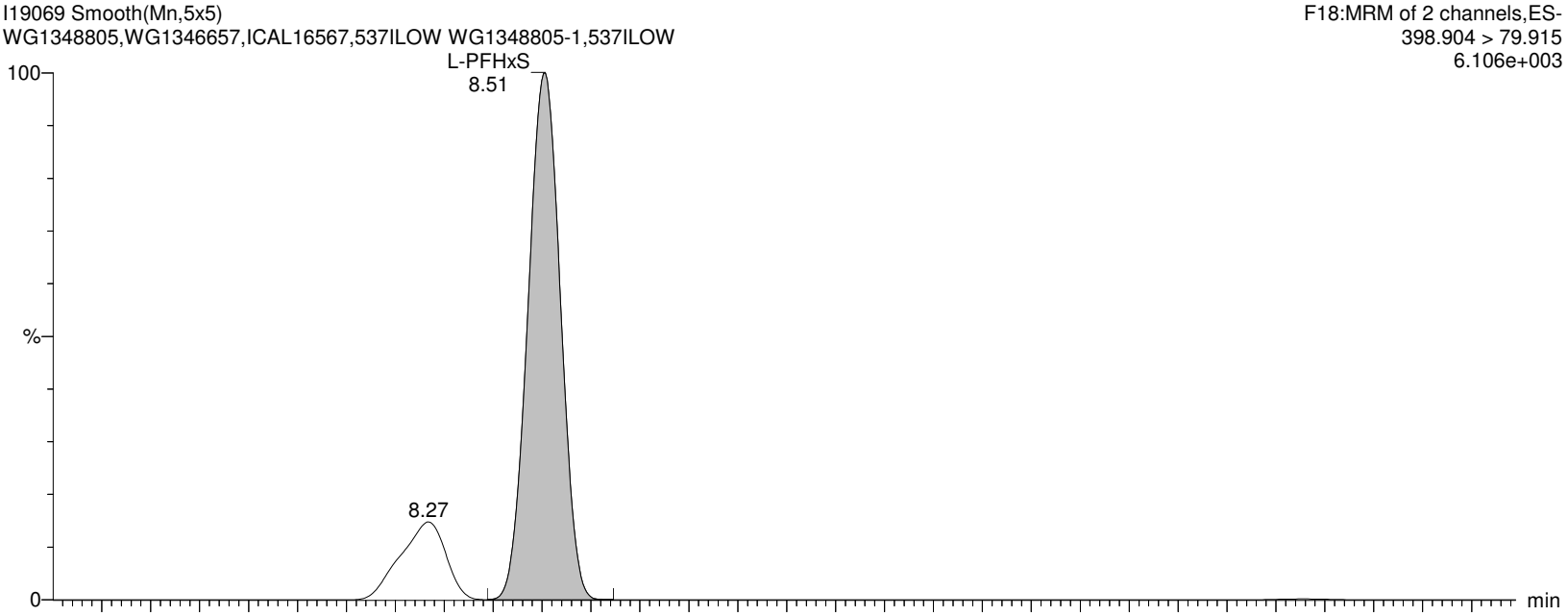
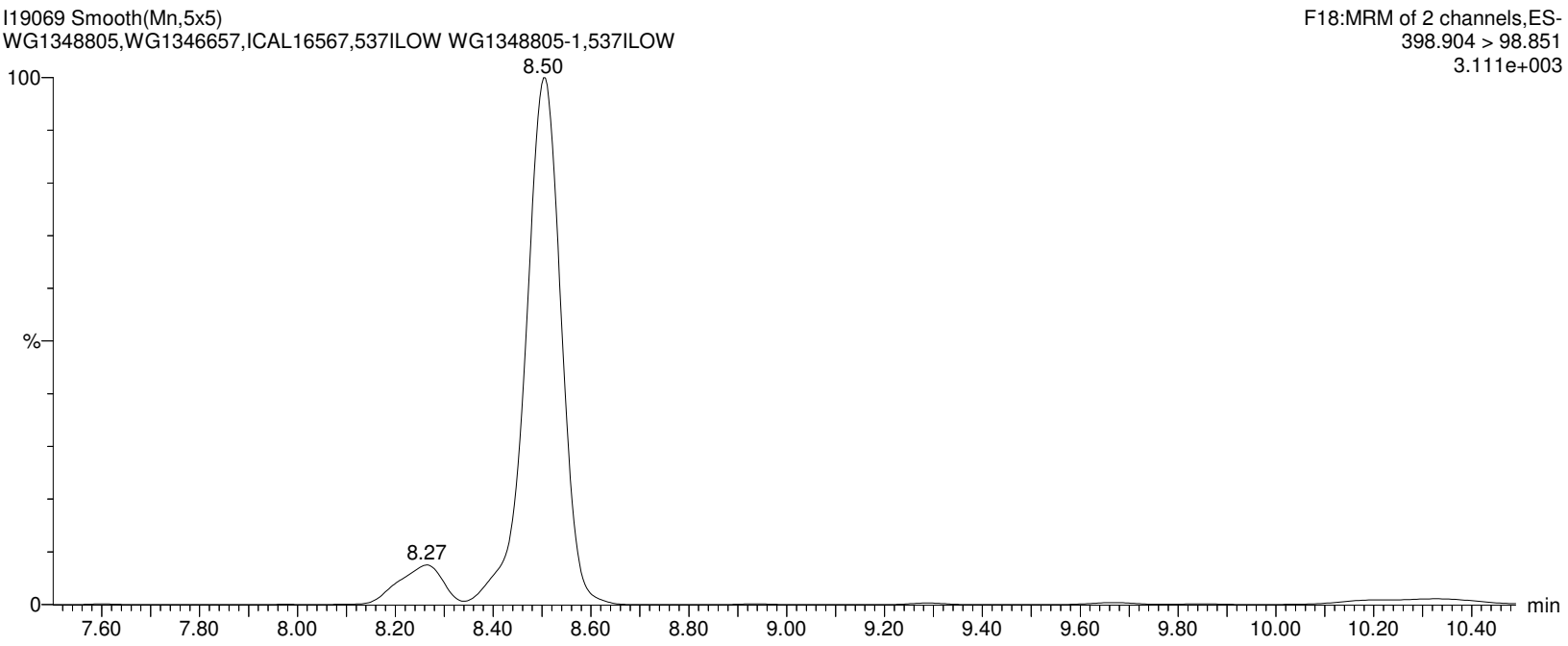
L-PFHxS





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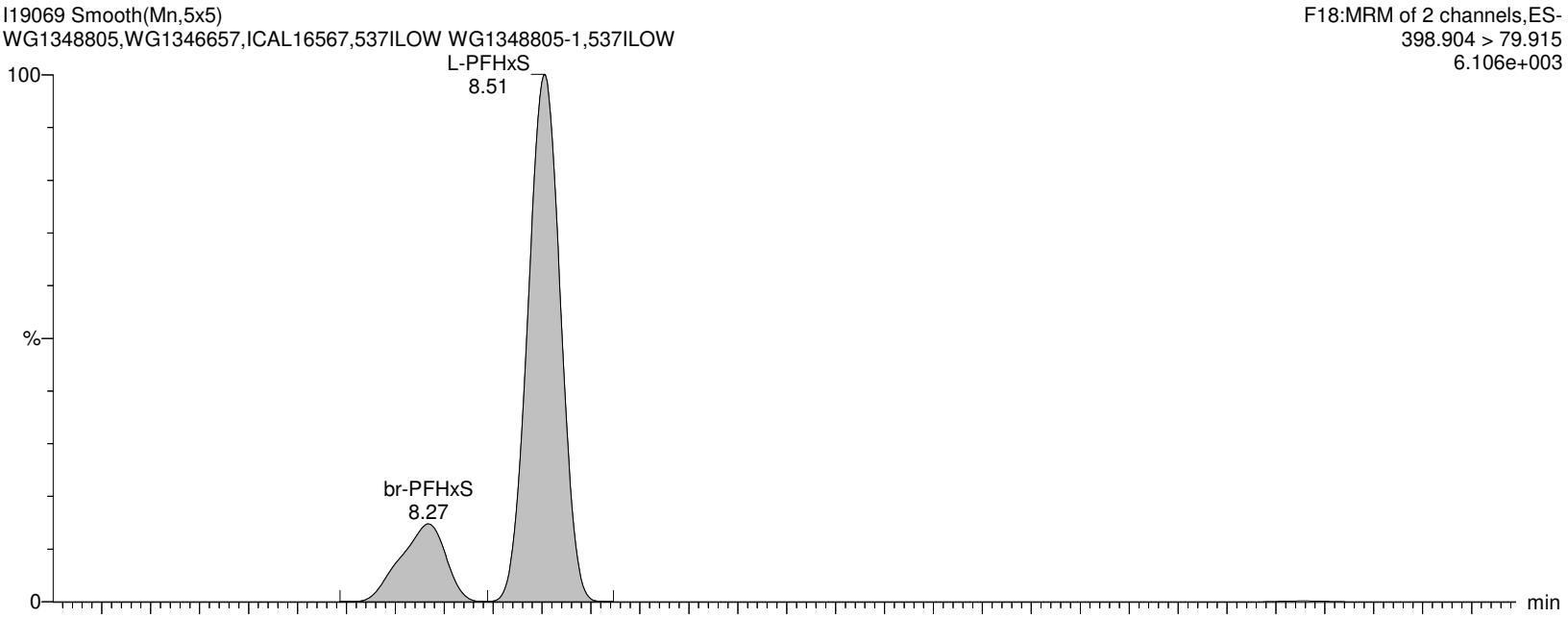
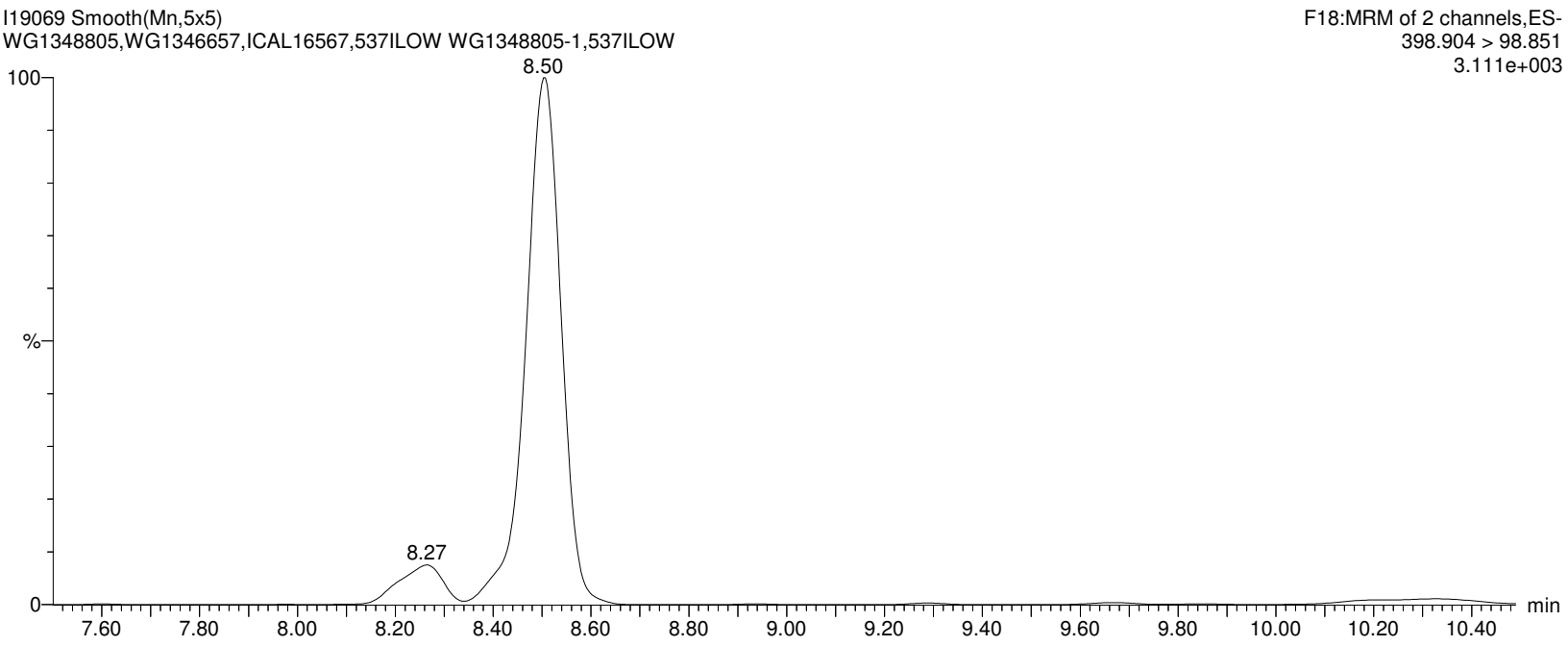
PFHxS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805-1.qld
Last Altered: Tuesday, March 10, 2020 12:33:31 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:11:25 Eastern Daylight Time

Name: I19069
ID: WG1348805-1,537ILOW
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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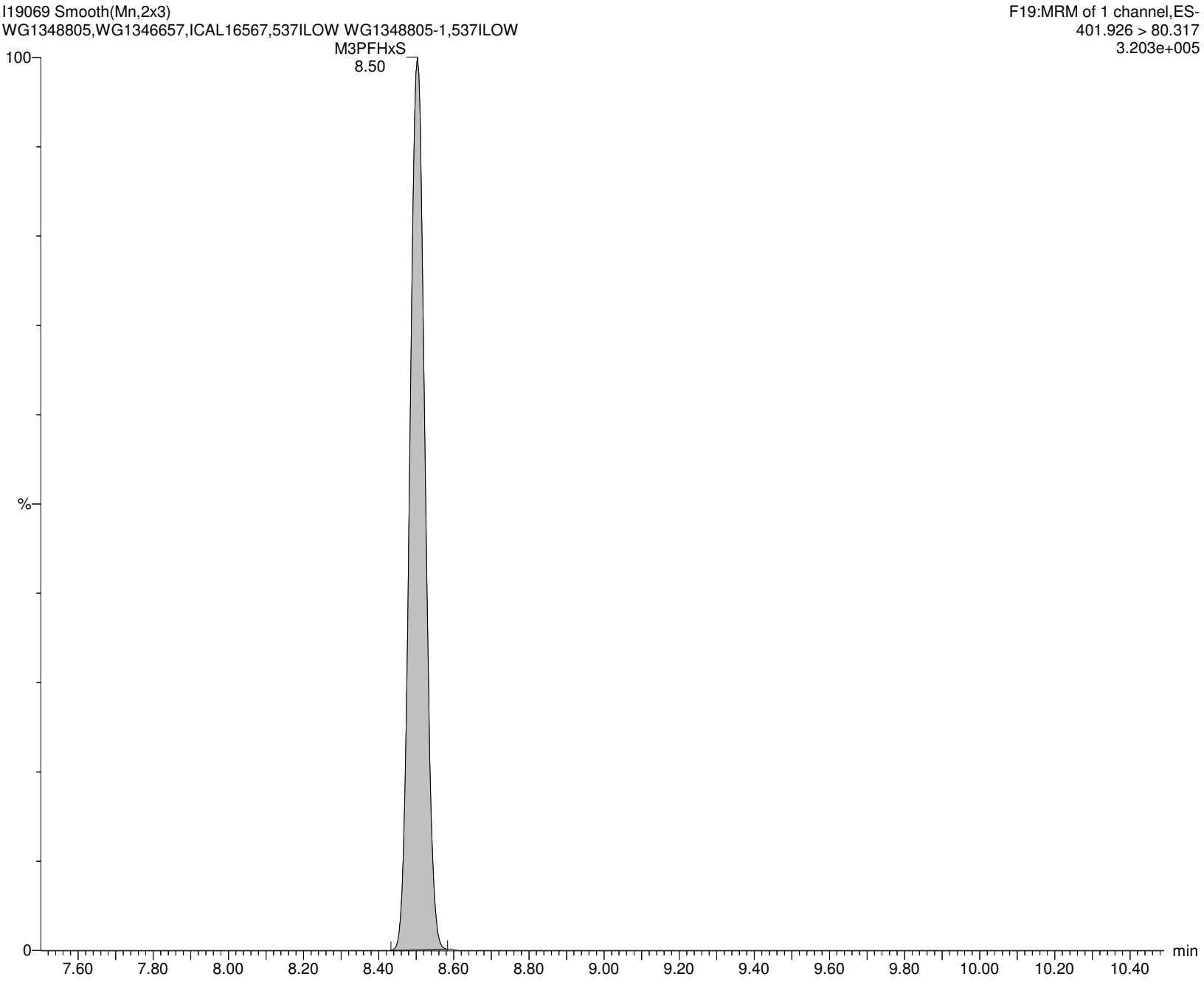

all concentration units in (ng/mL)

Alpha Analytical Inc.
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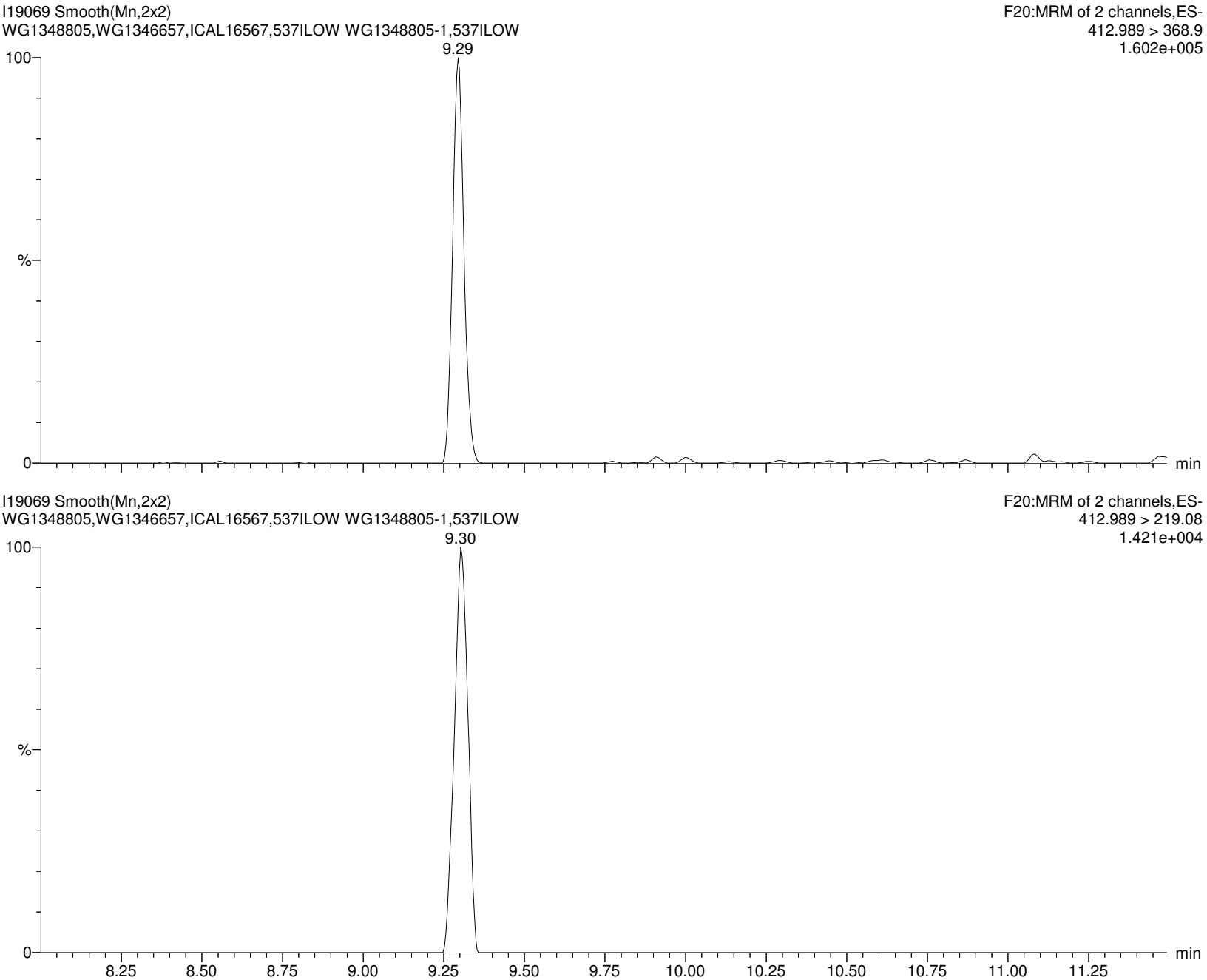

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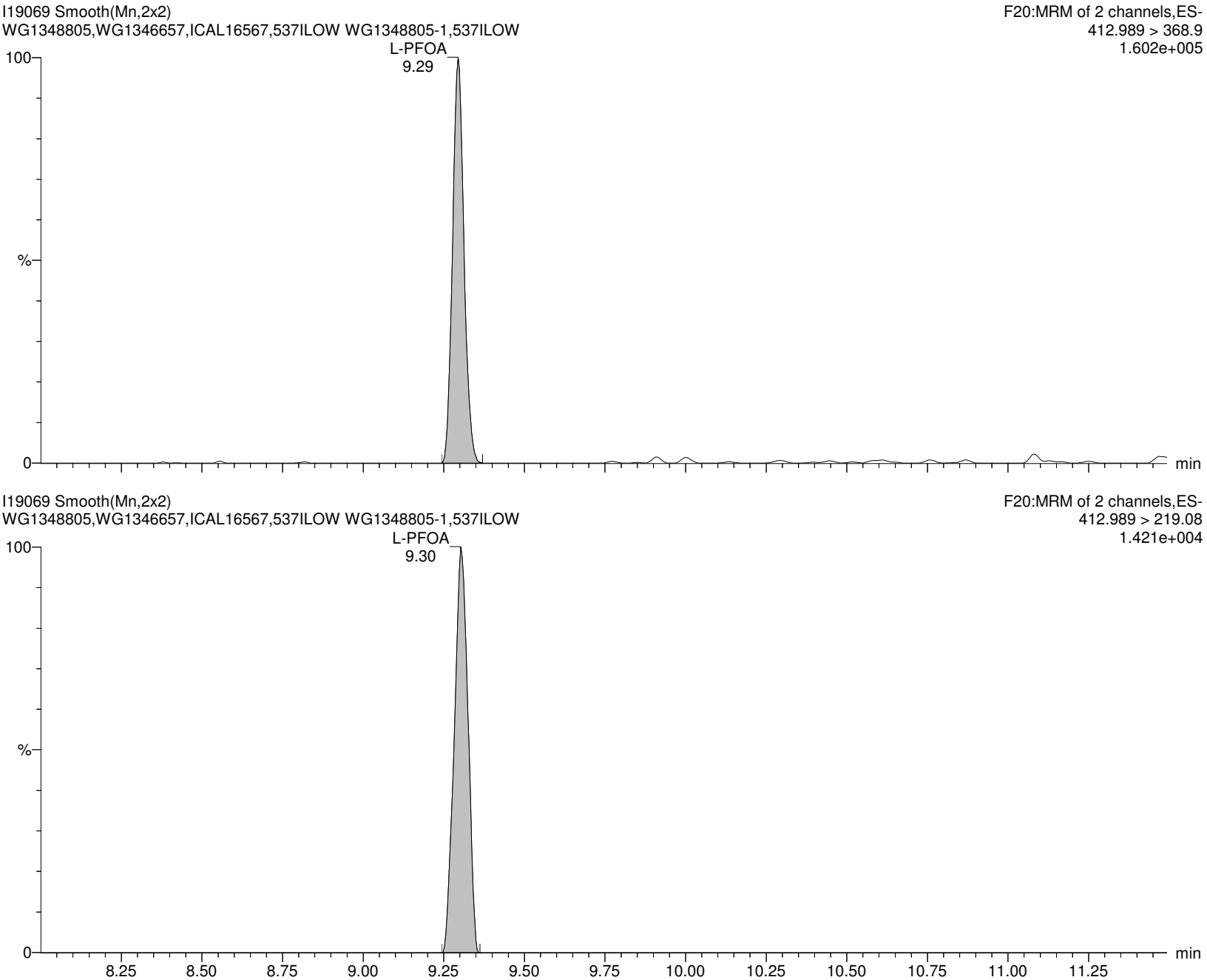

all concentration units in (ng/mL)

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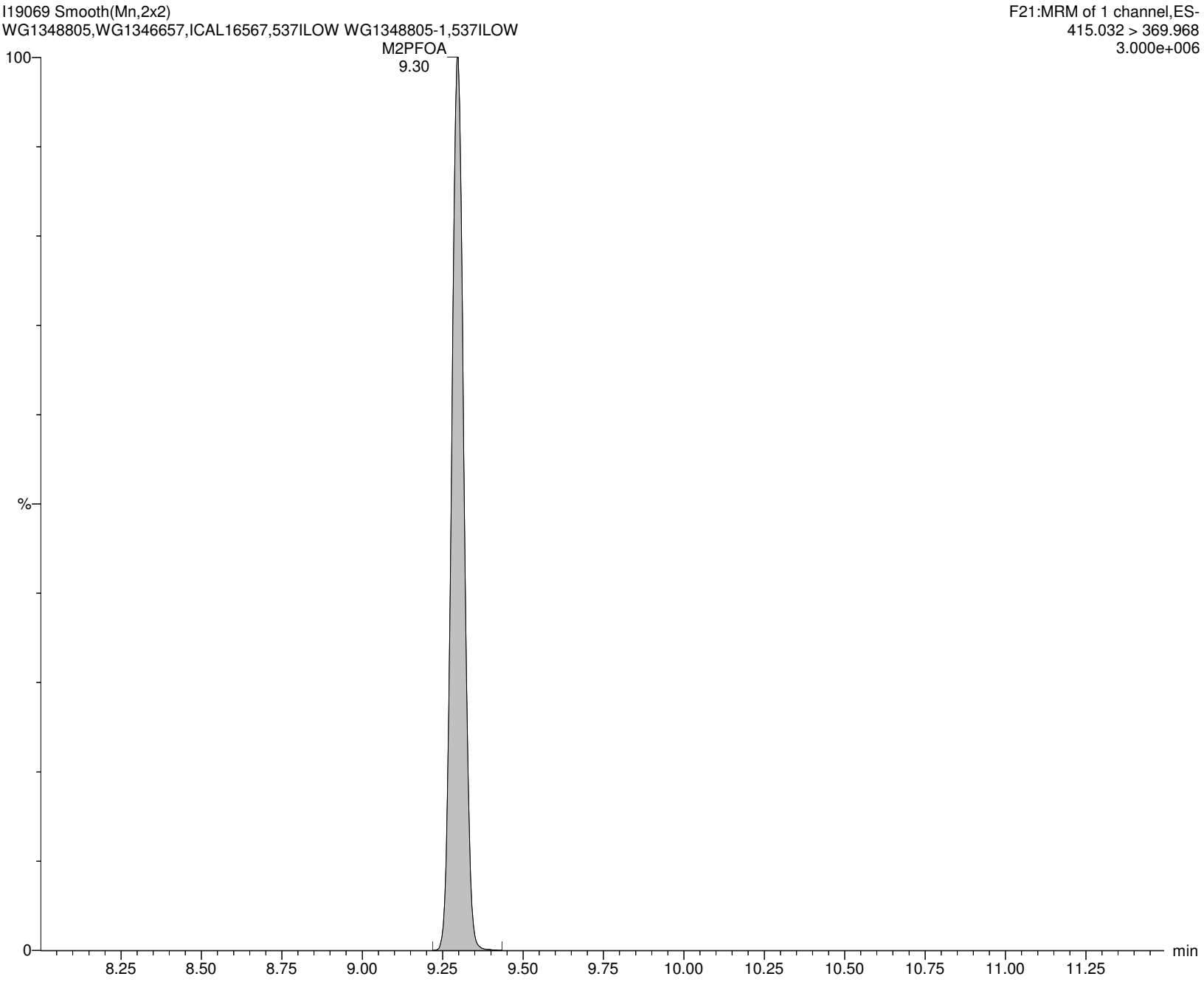

all concentration units in (ng/mL)

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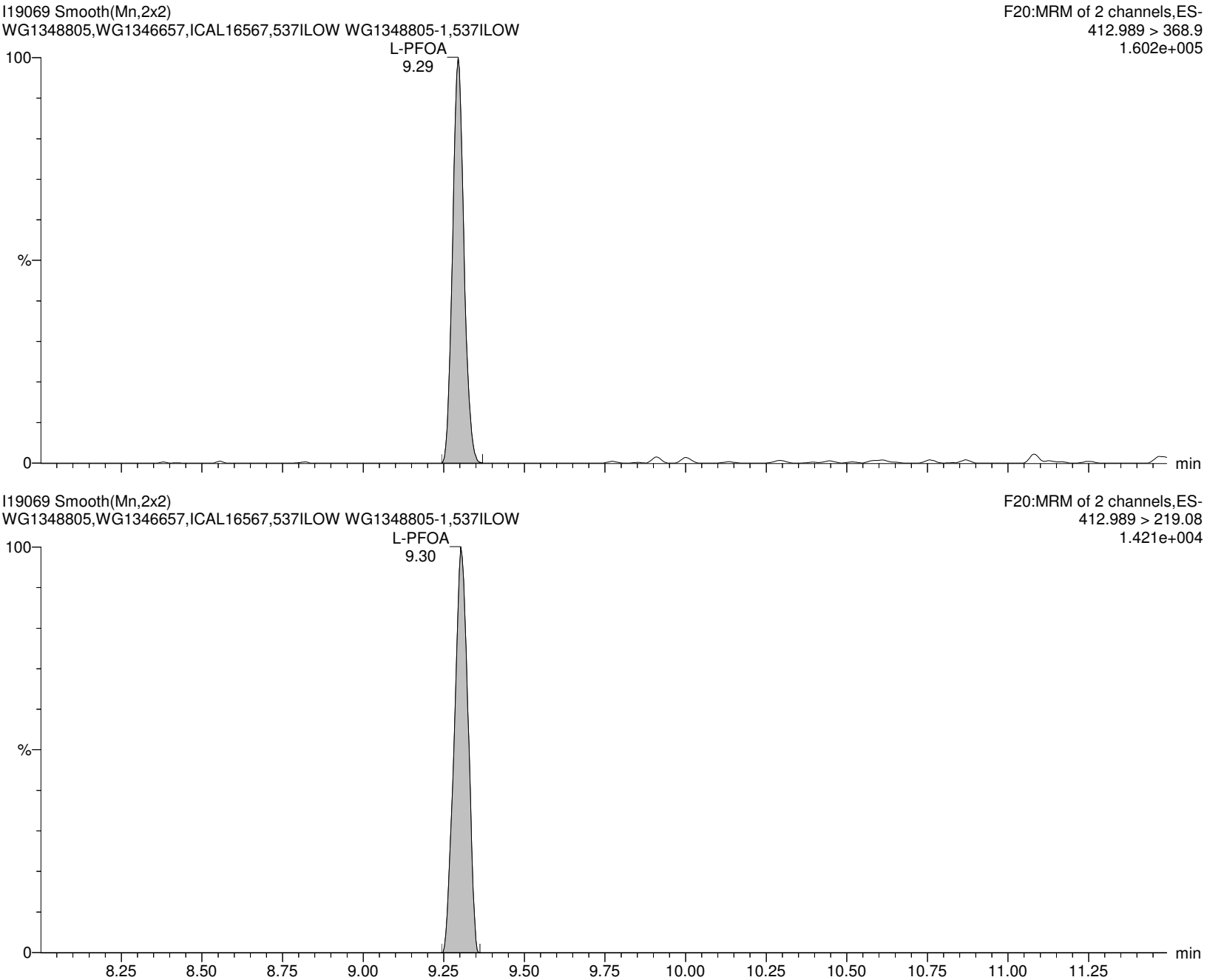

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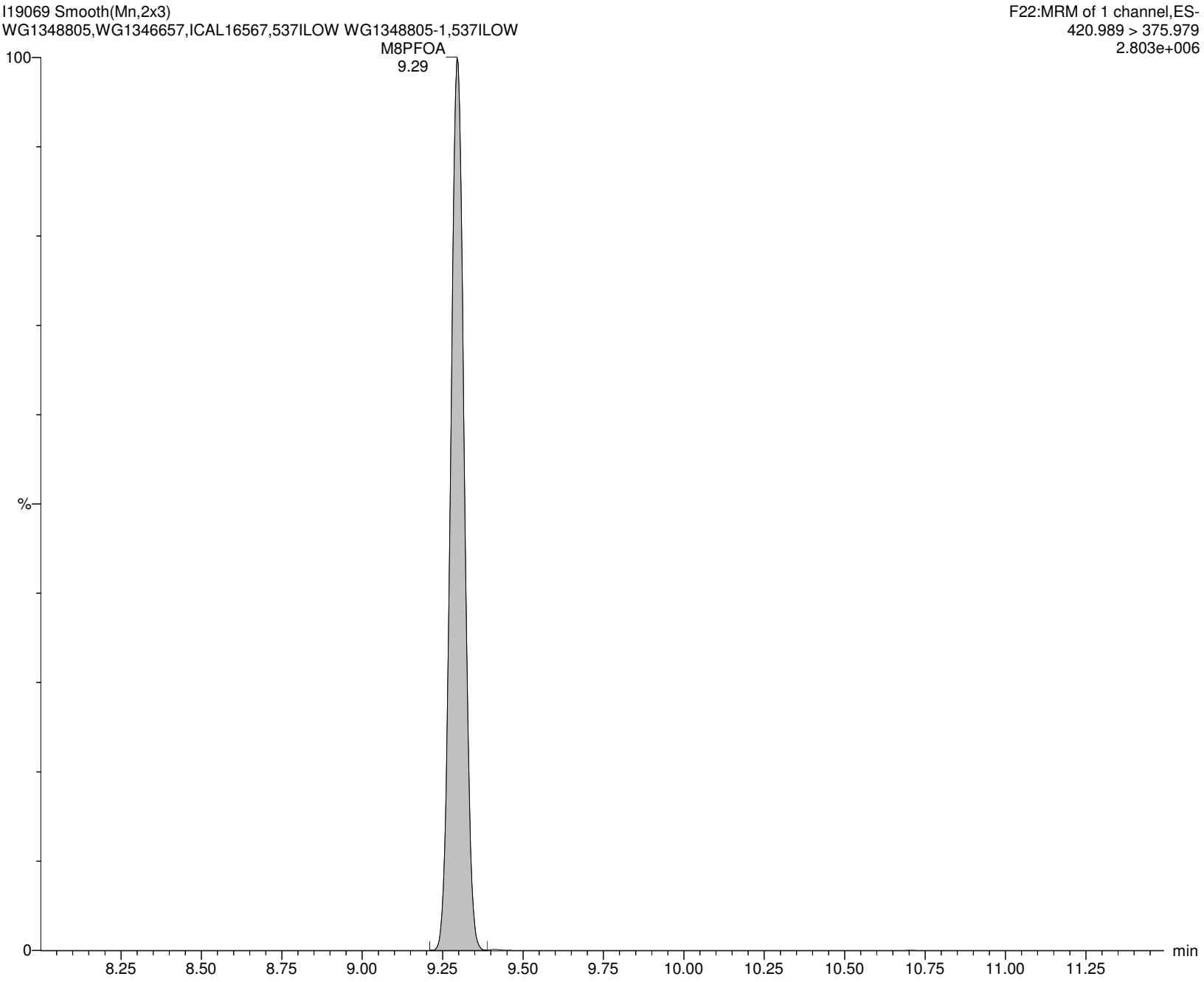

all concentration units in (ng/mL)

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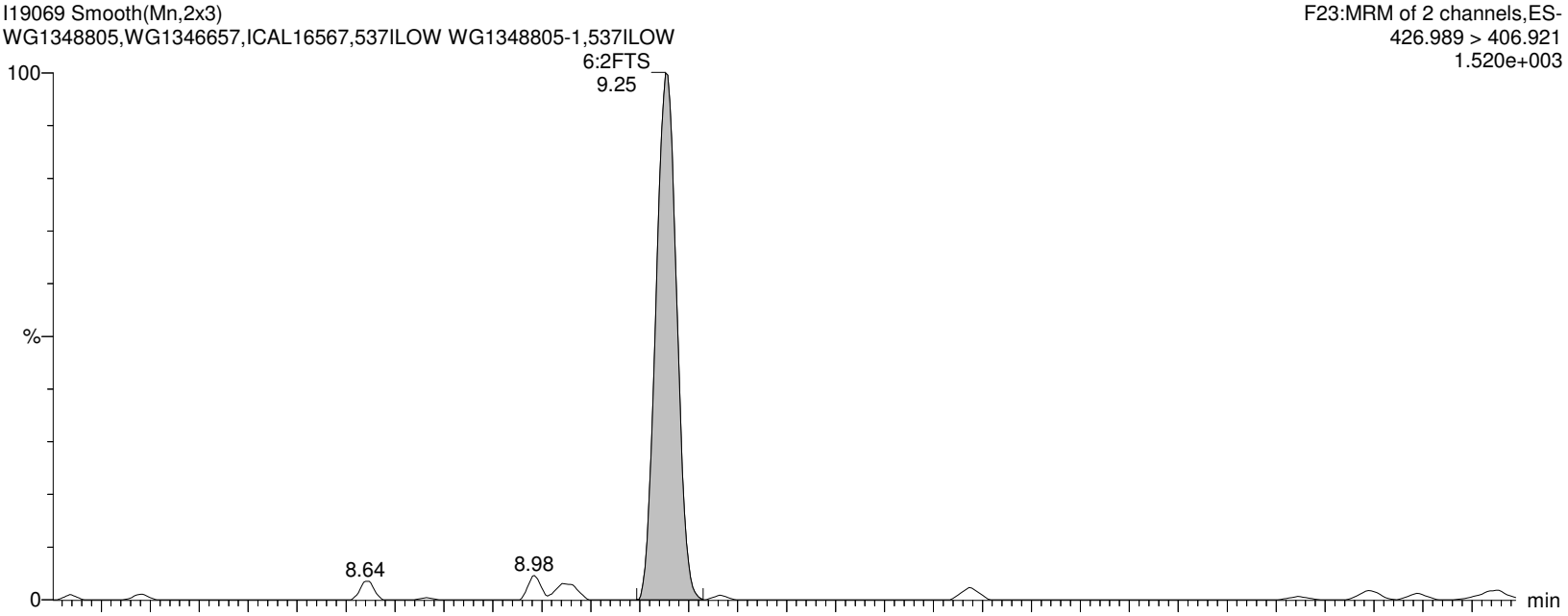

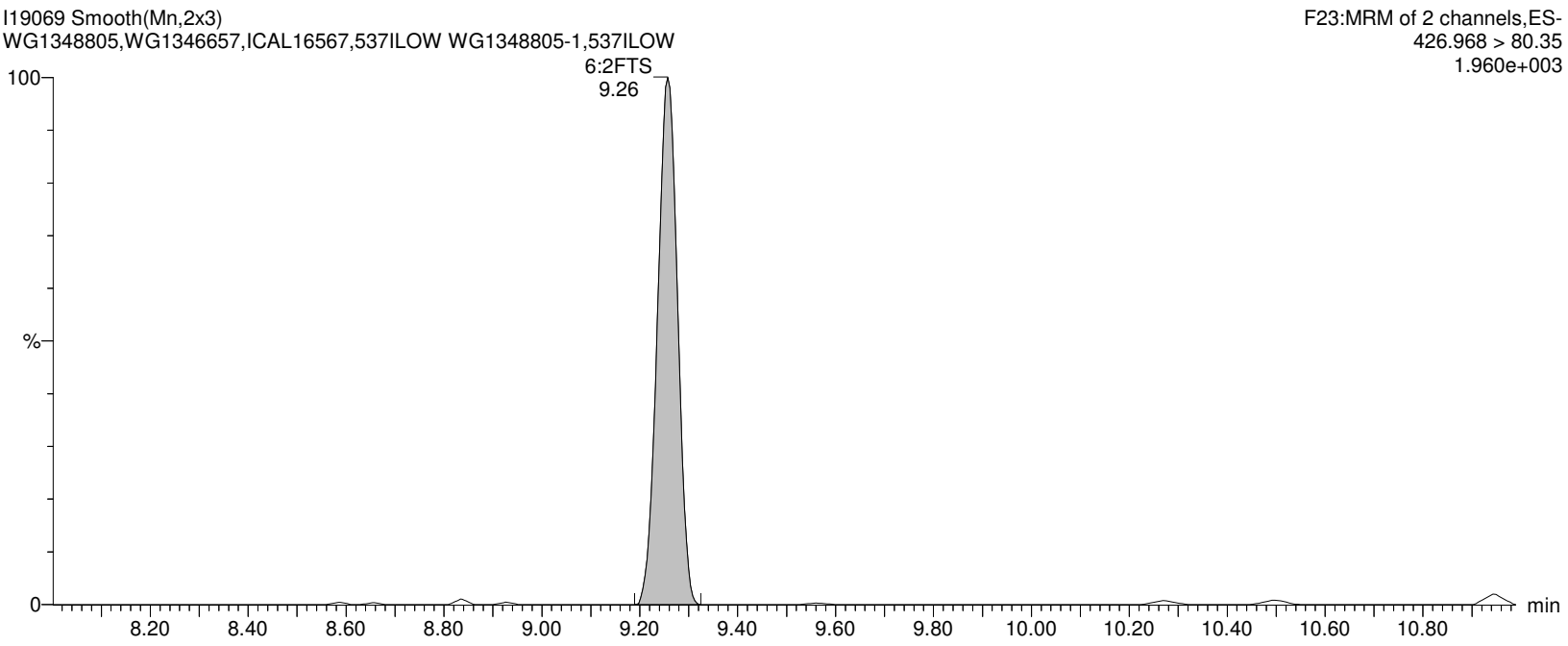

all concentration units in (ng/mL)

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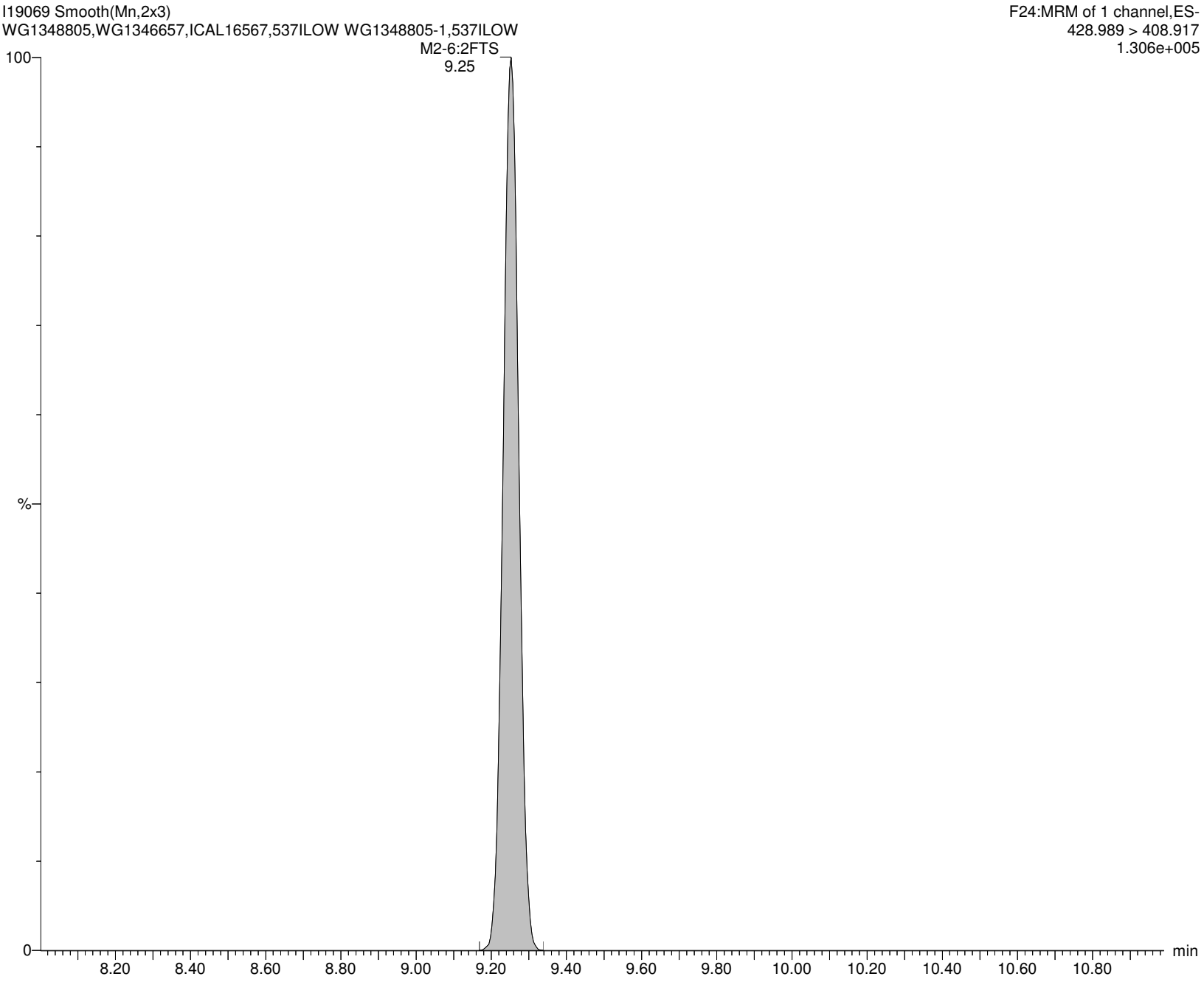

all concentration units in (ng/mL)

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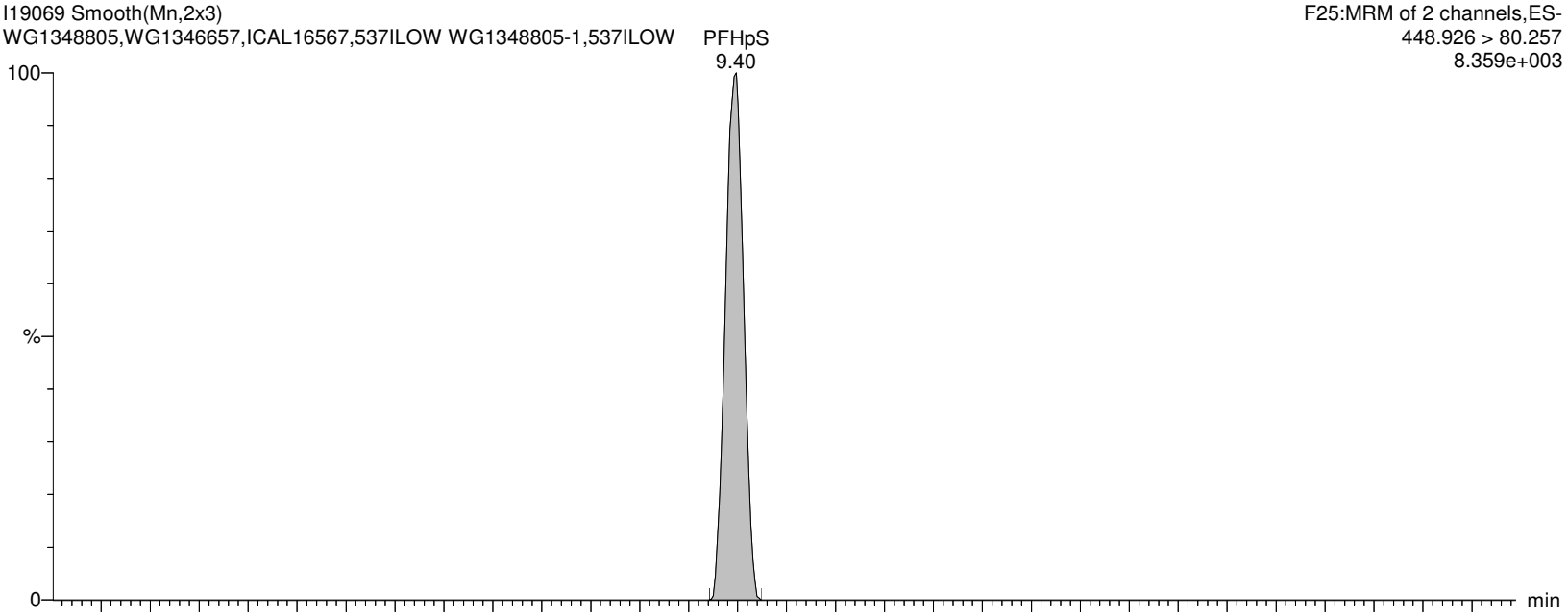

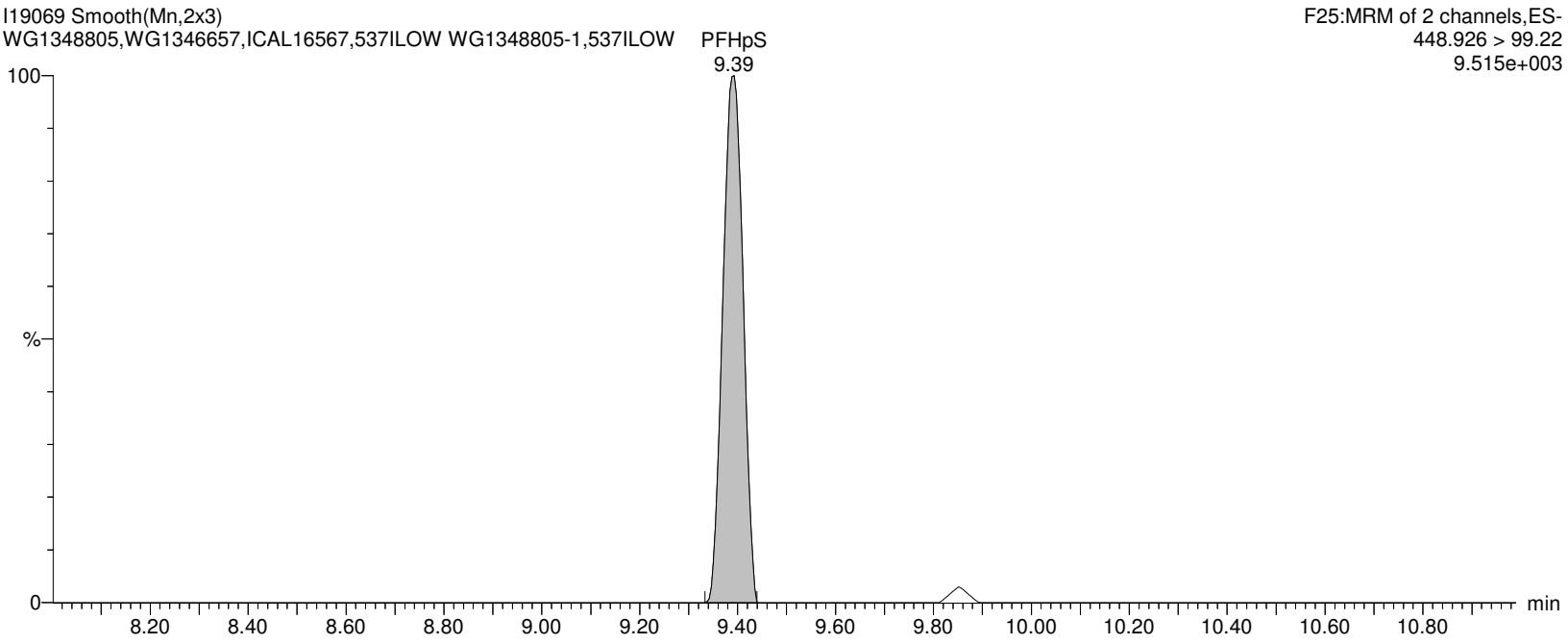

all concentration units in (ng/mL)

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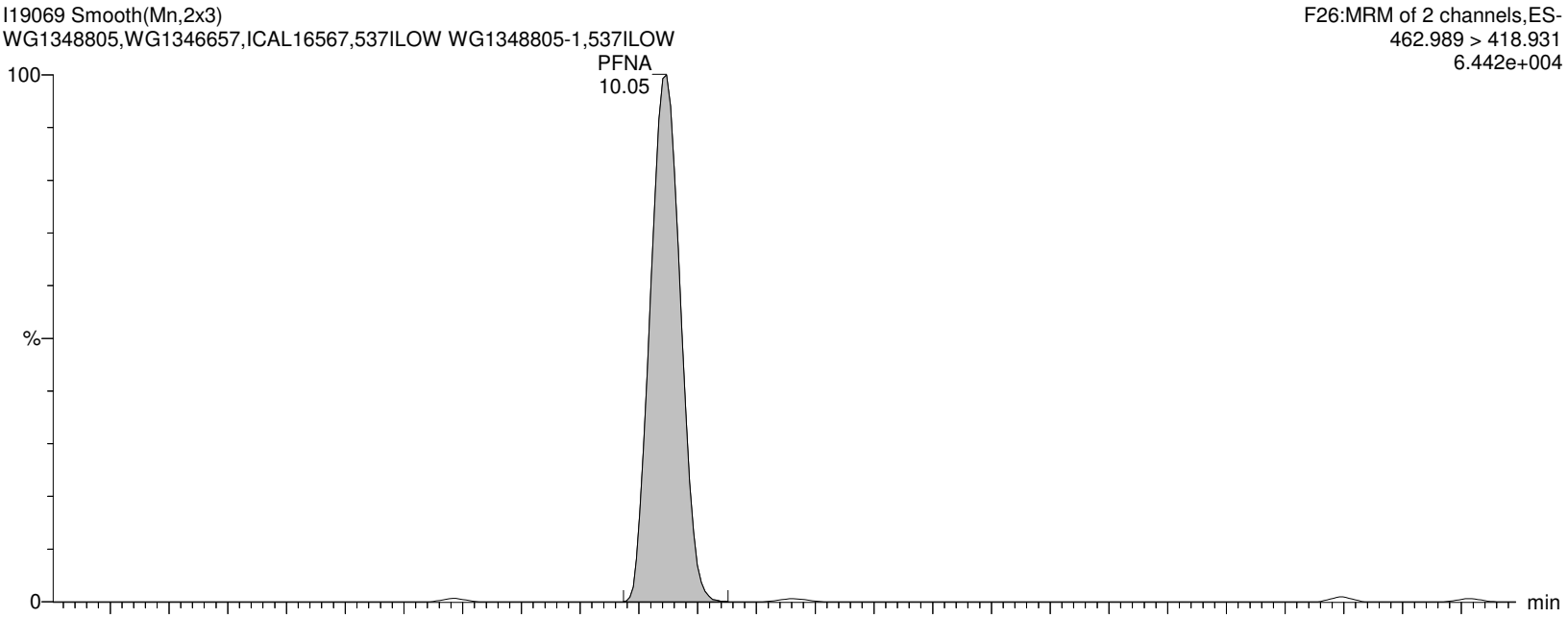

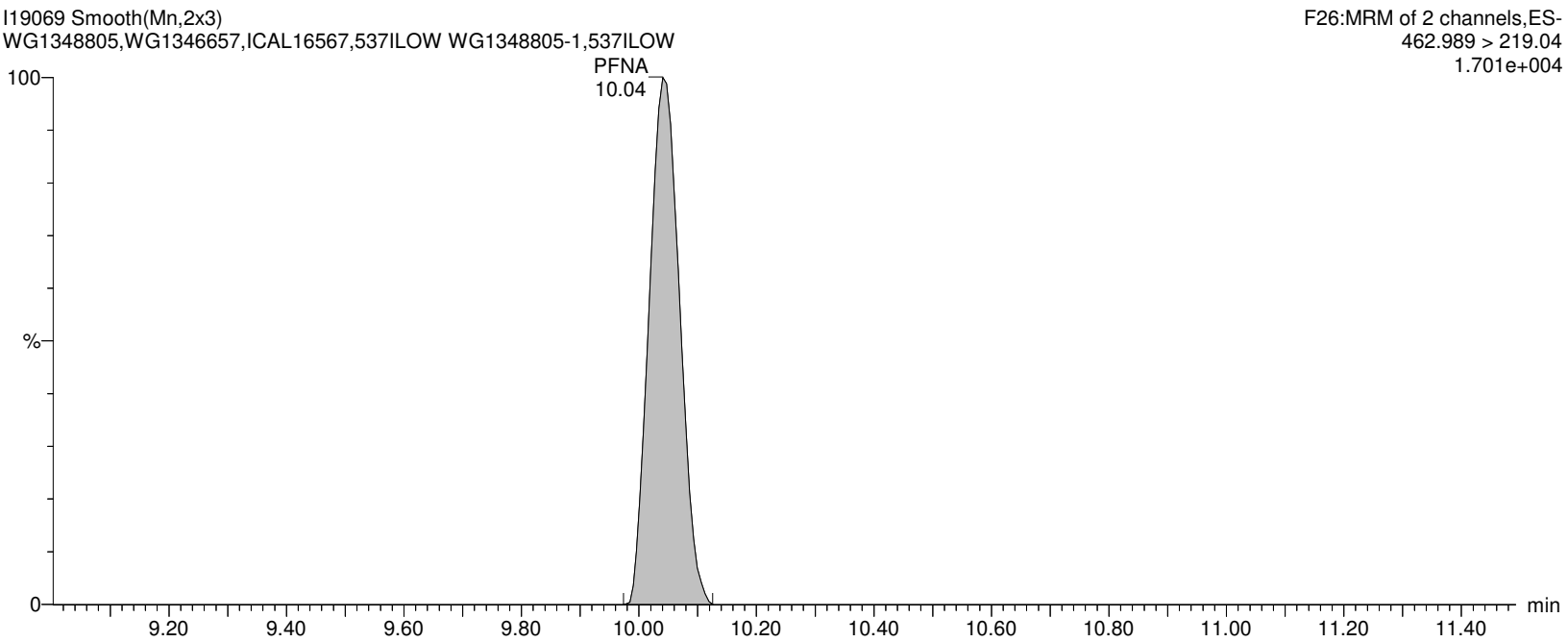

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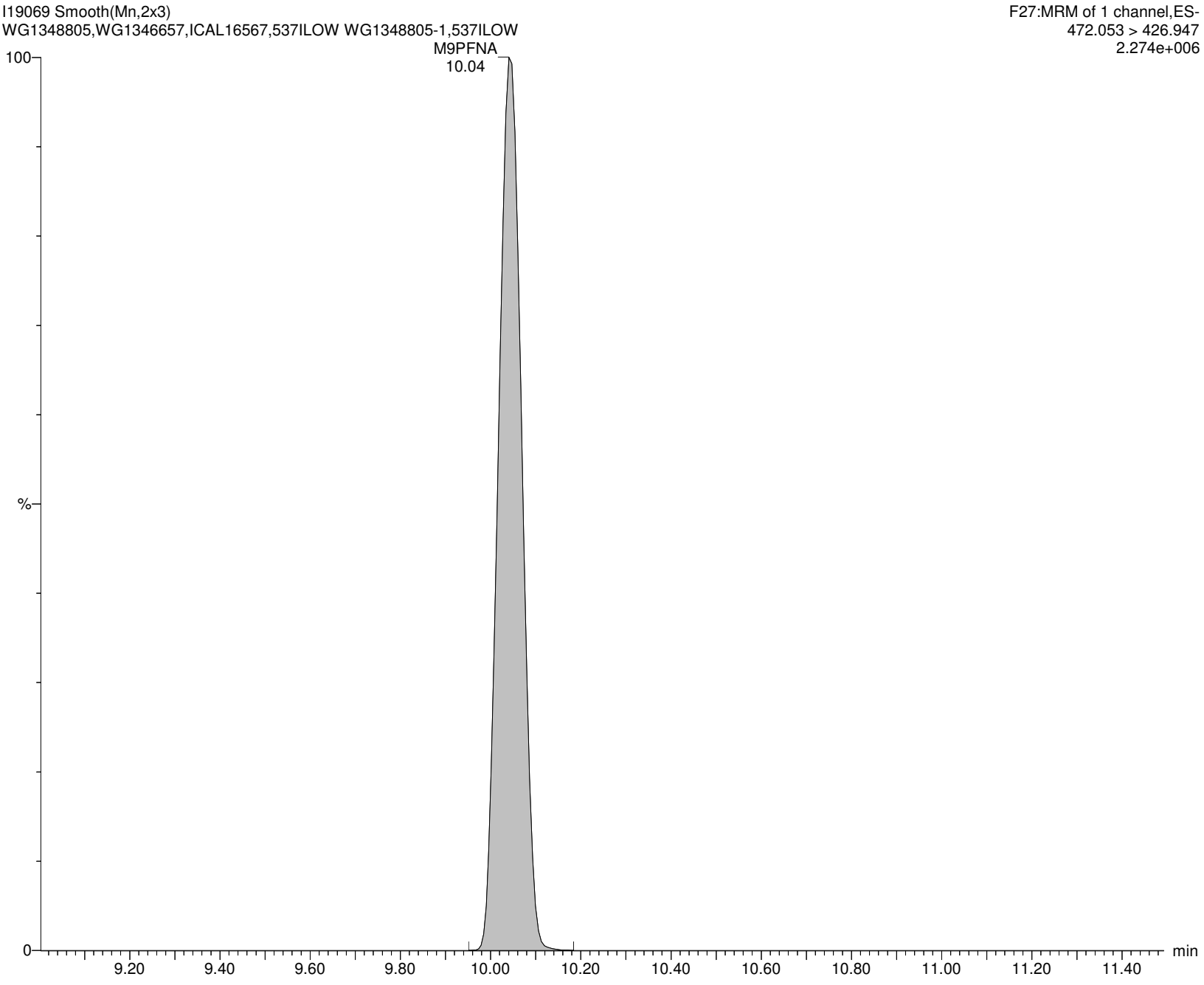

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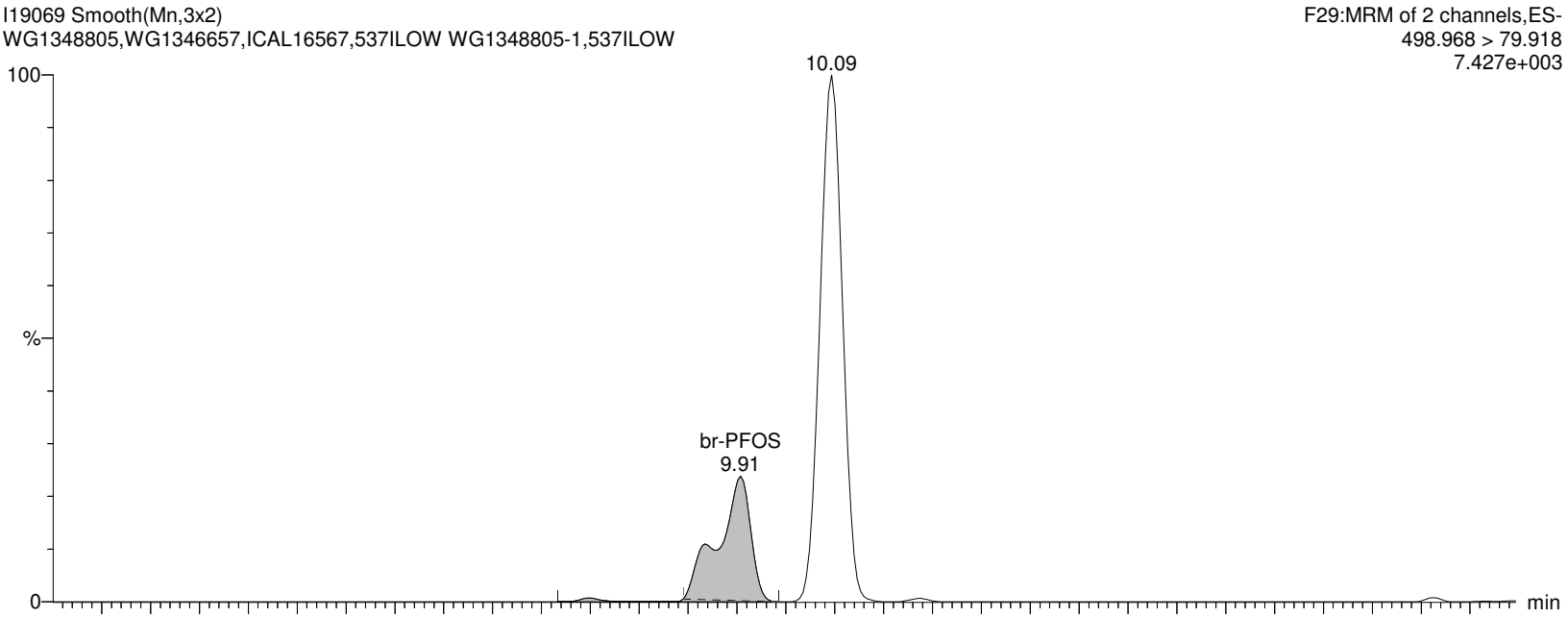
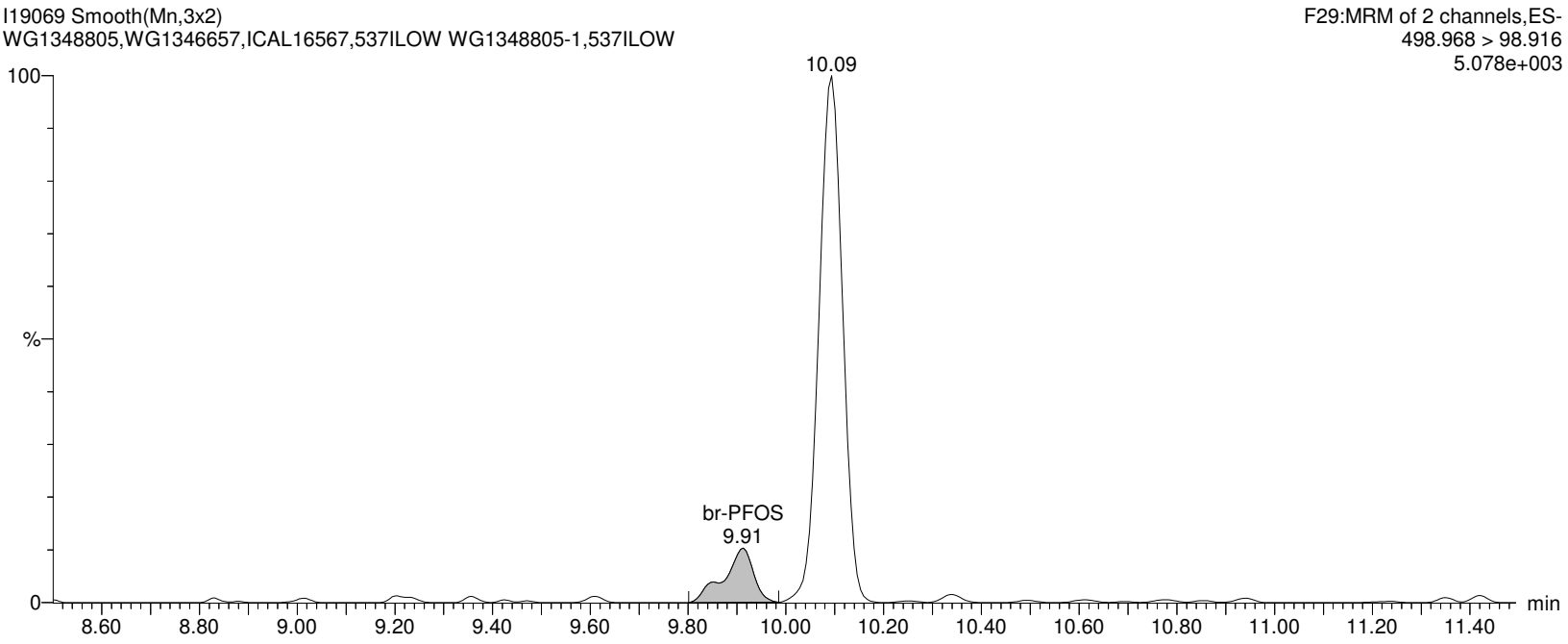
br-PFOS





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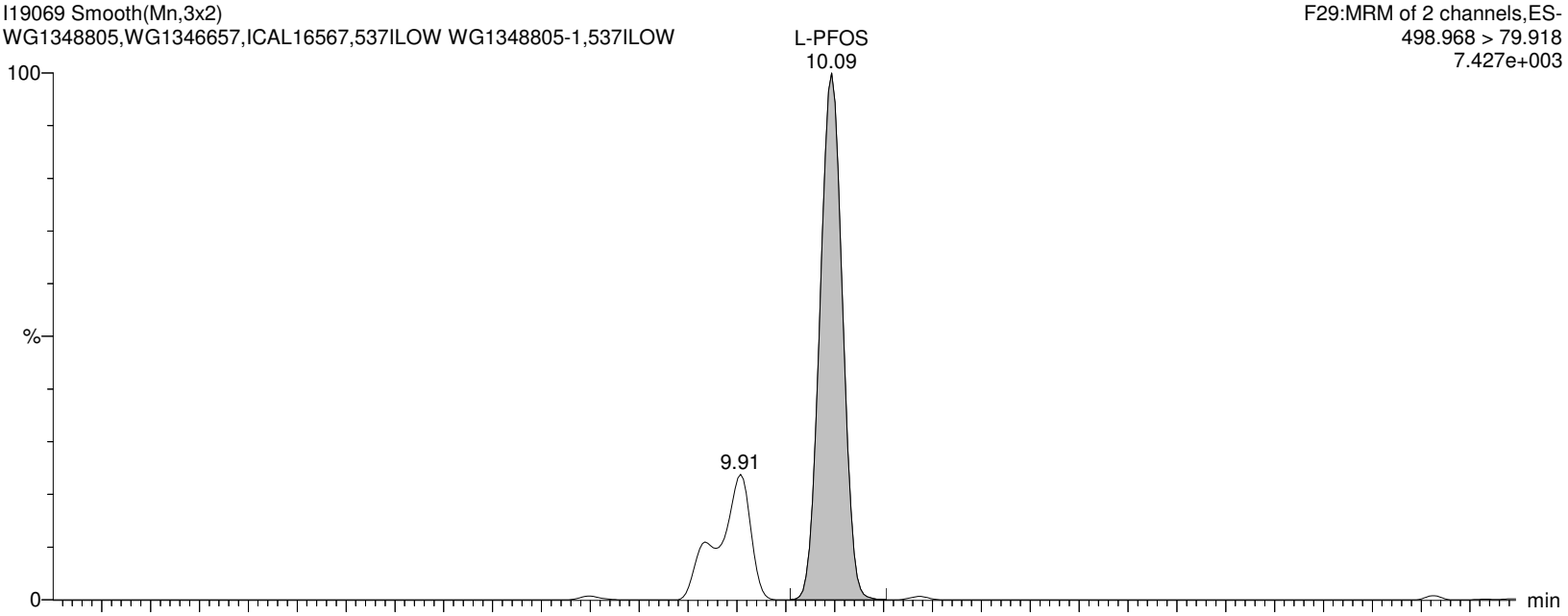

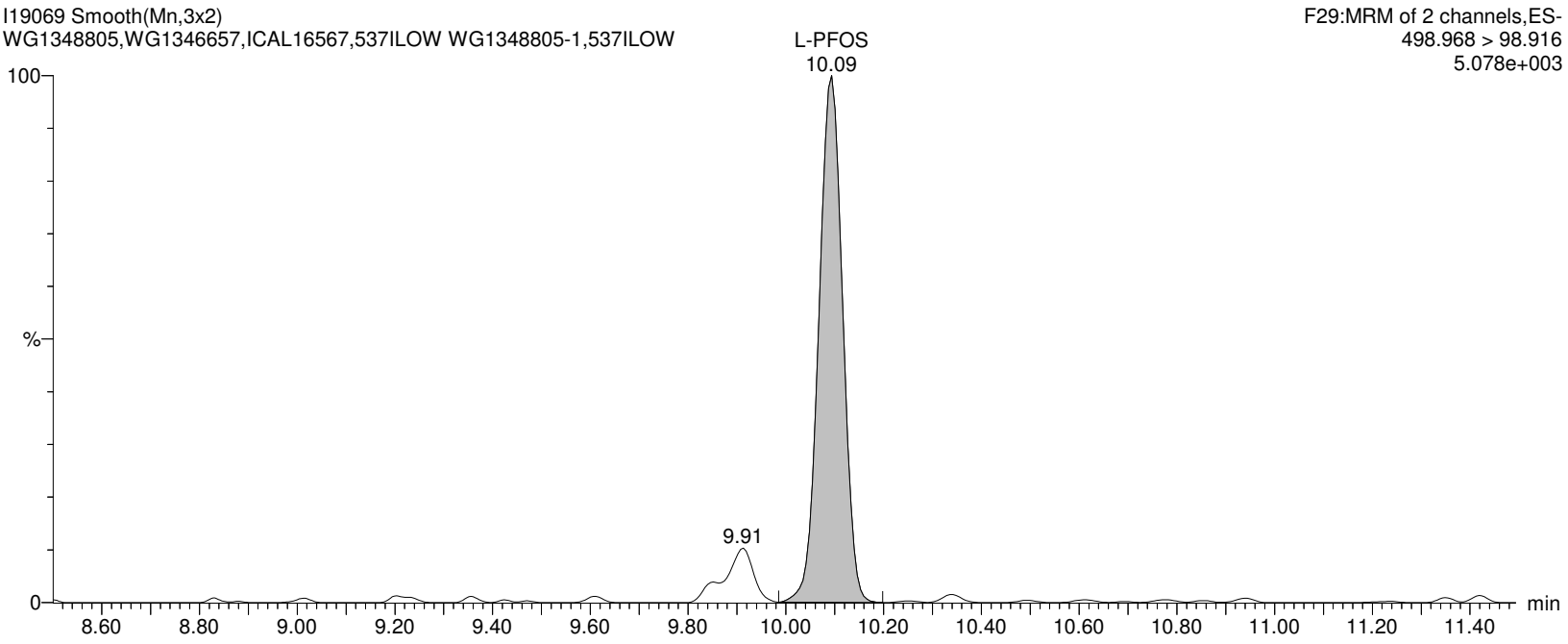

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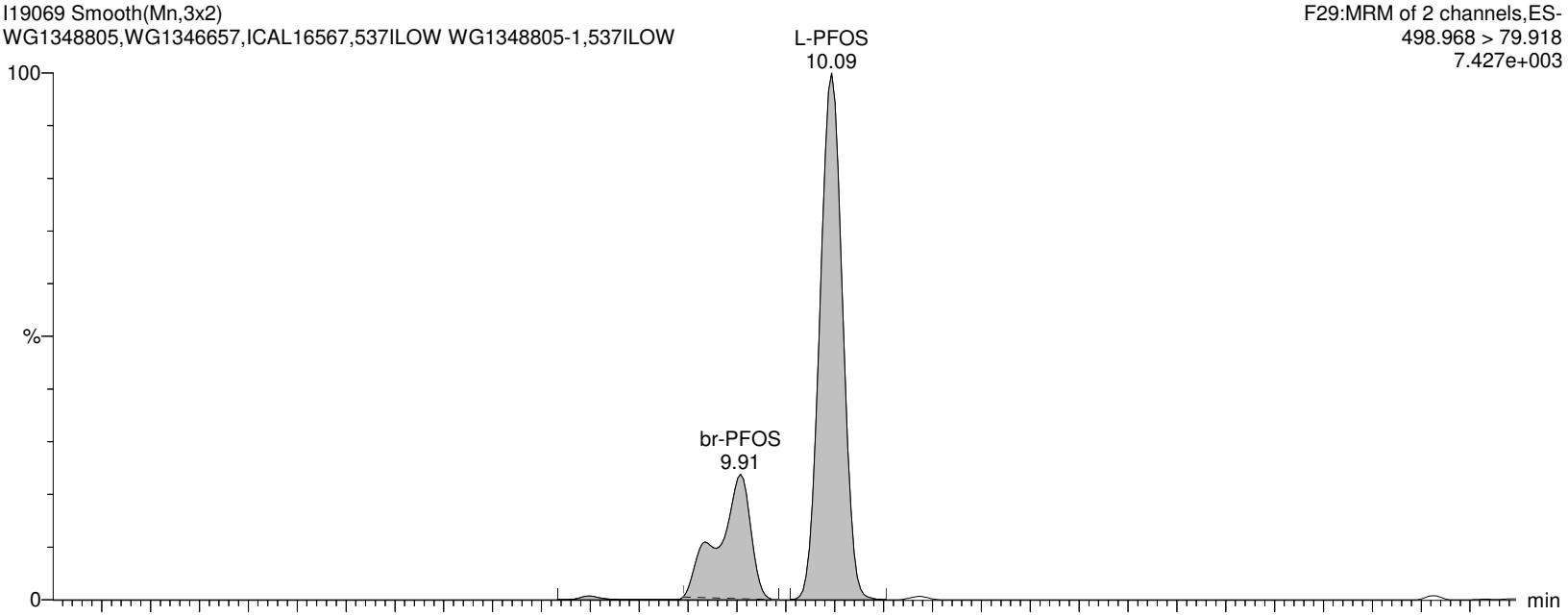

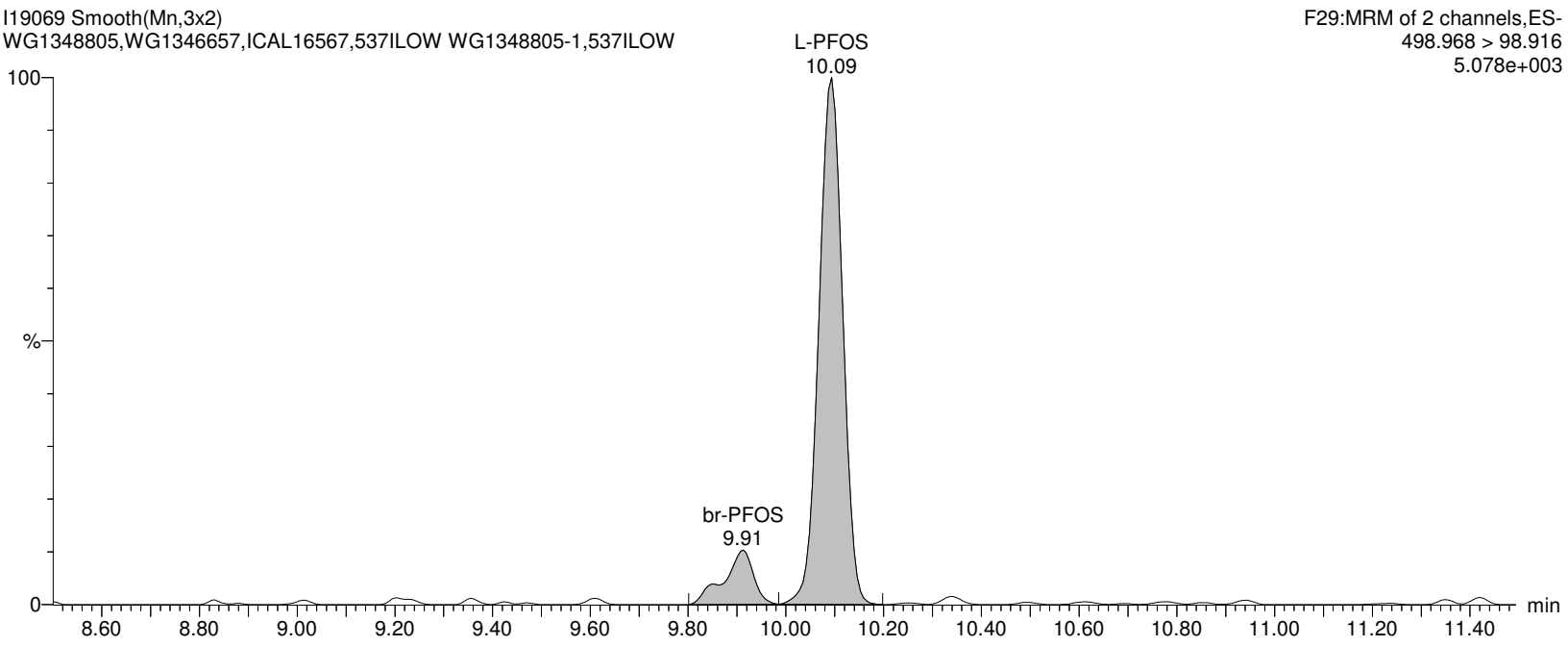

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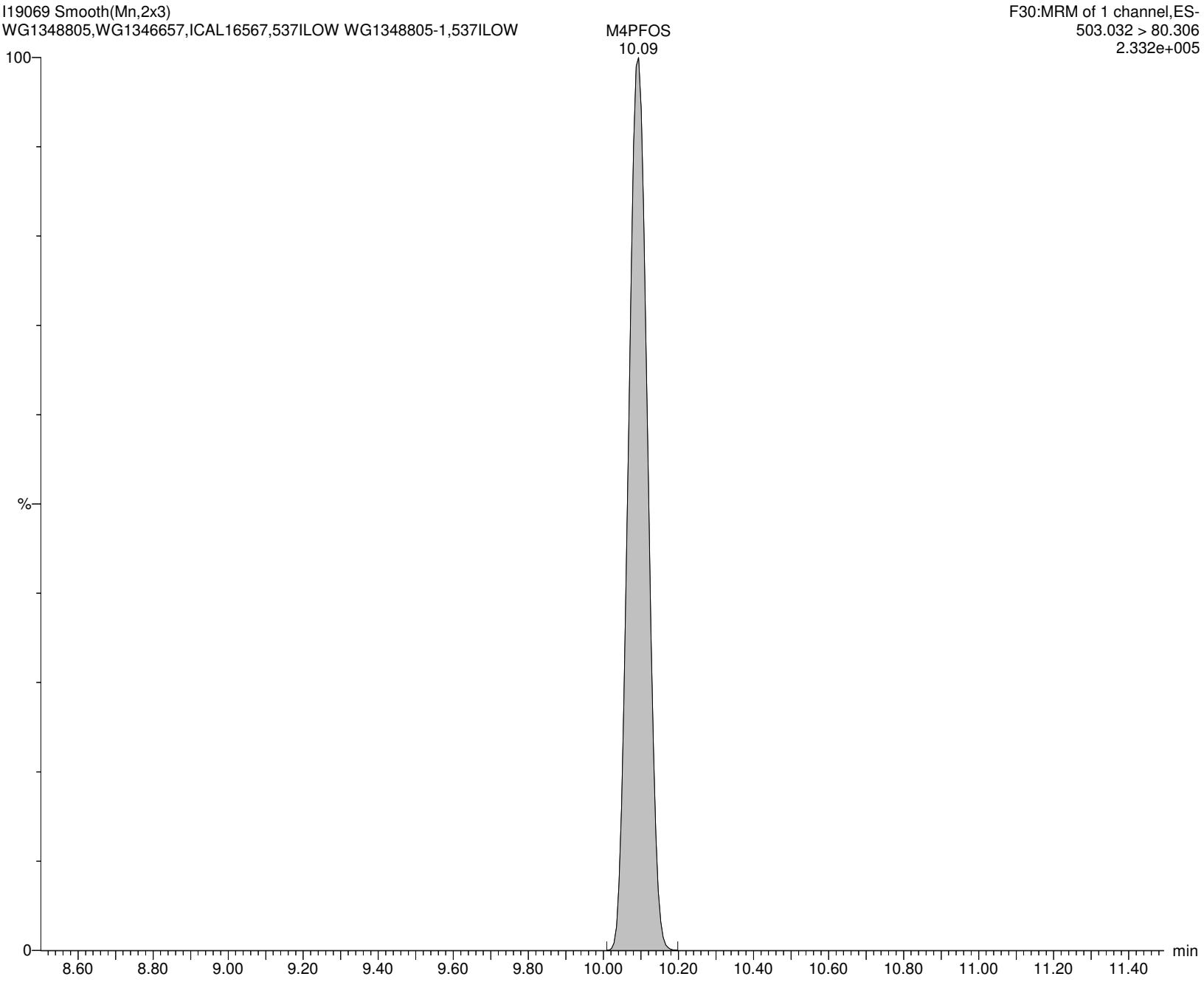

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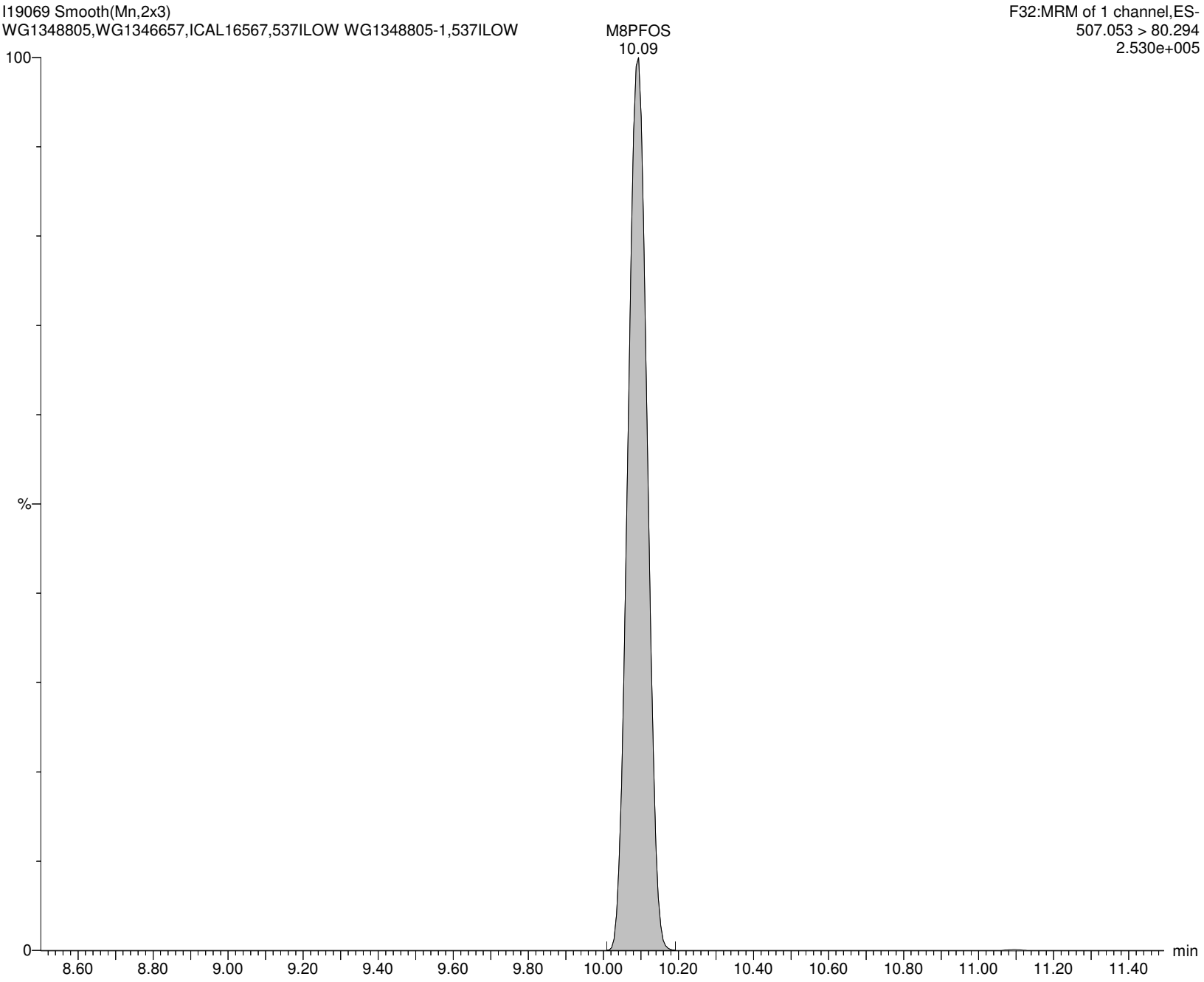

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805-1.qld
Last Altered: Tuesday, March 10, 2020 12:33:31 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:11:25 Eastern Daylight Time

Name: I19069
ID: WG1348805-1,537ILOW
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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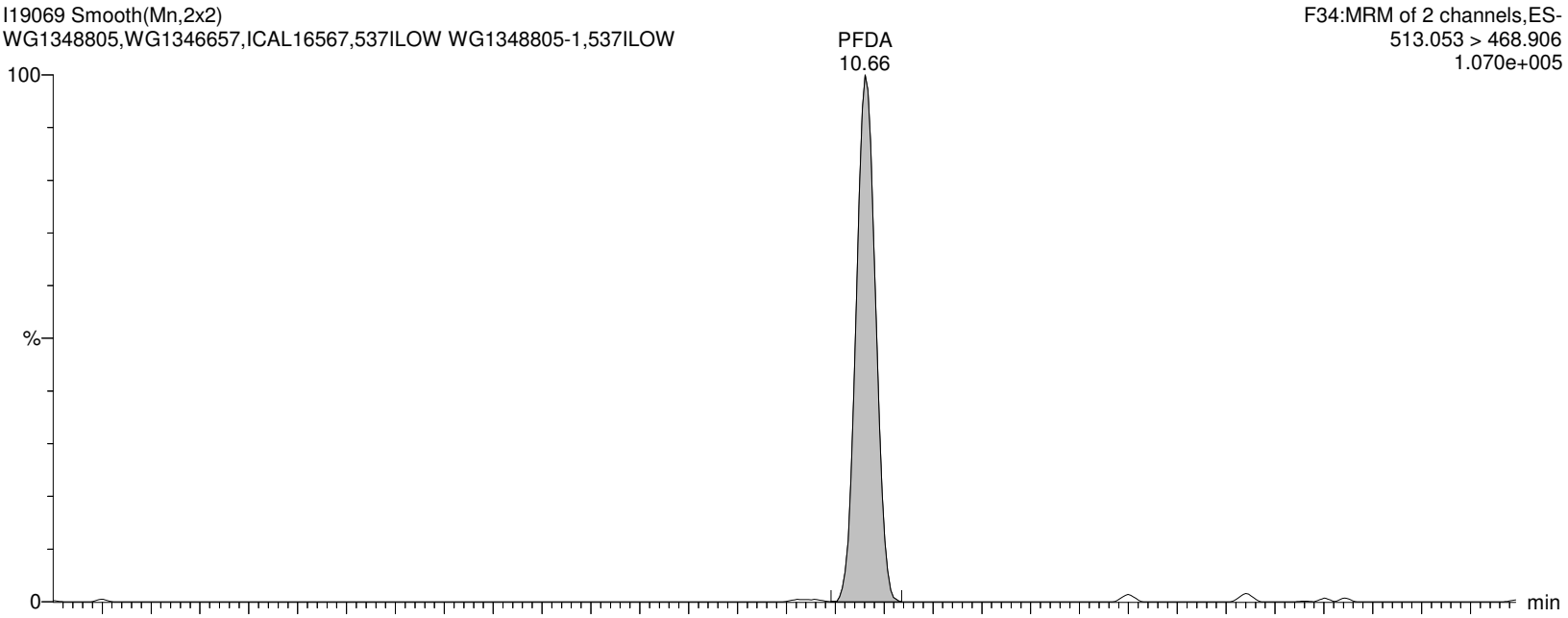

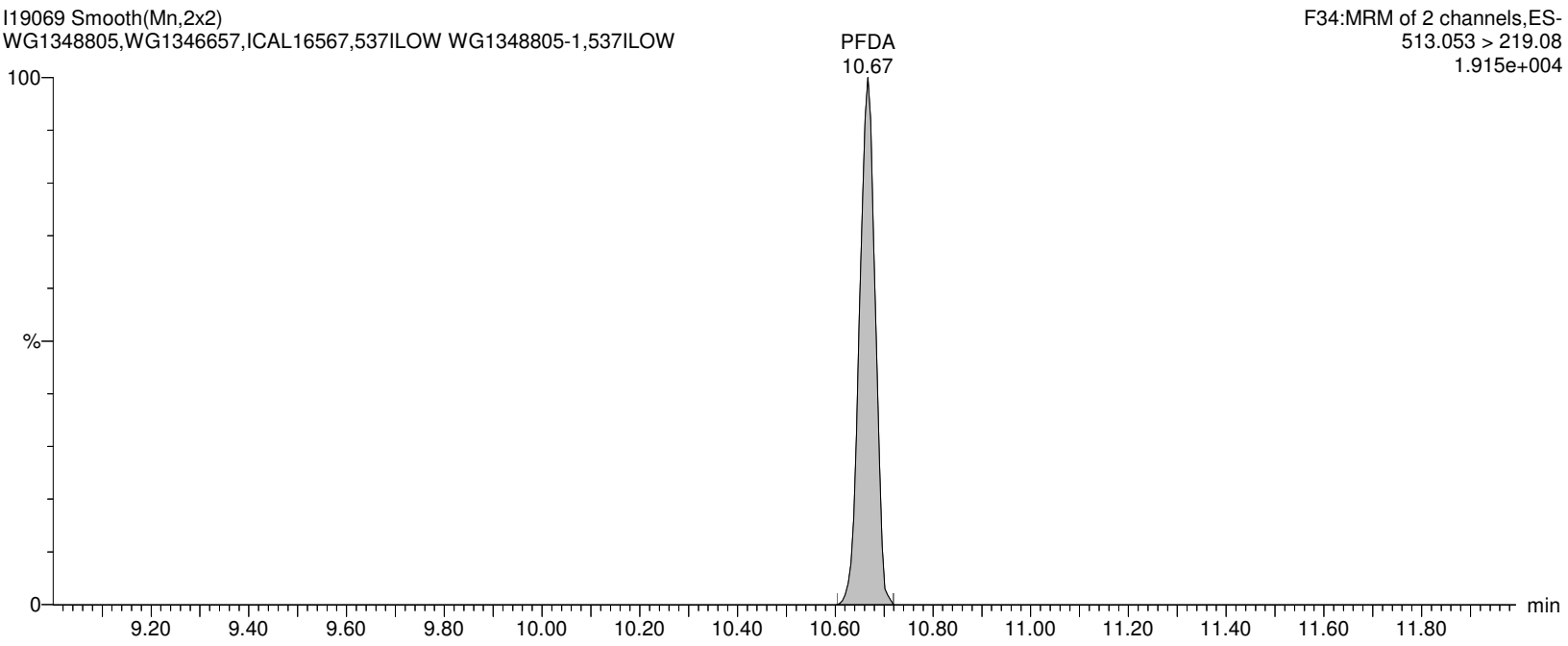

all concentration units in (ng/mL)

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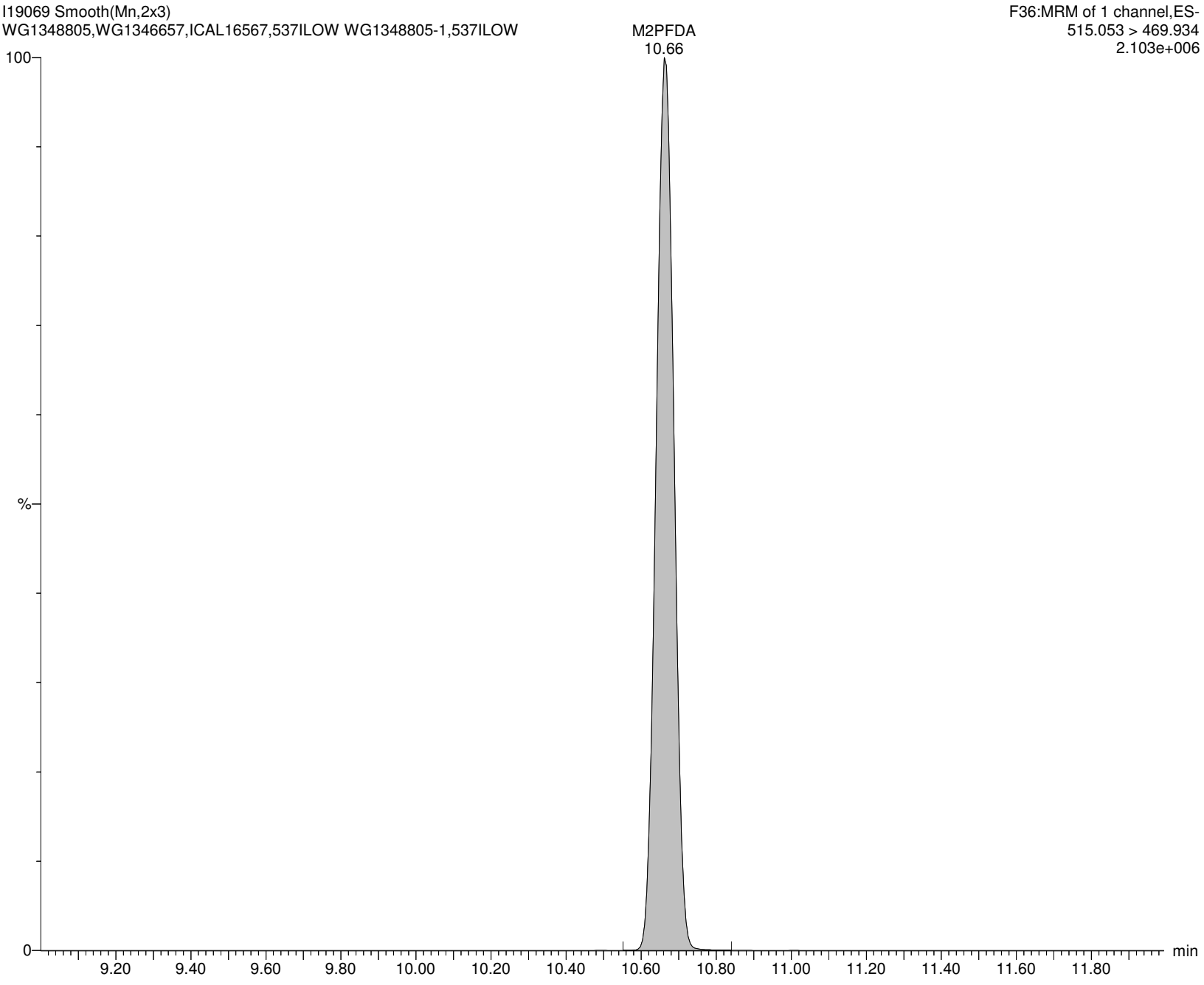

all concentration units in (ng/mL)

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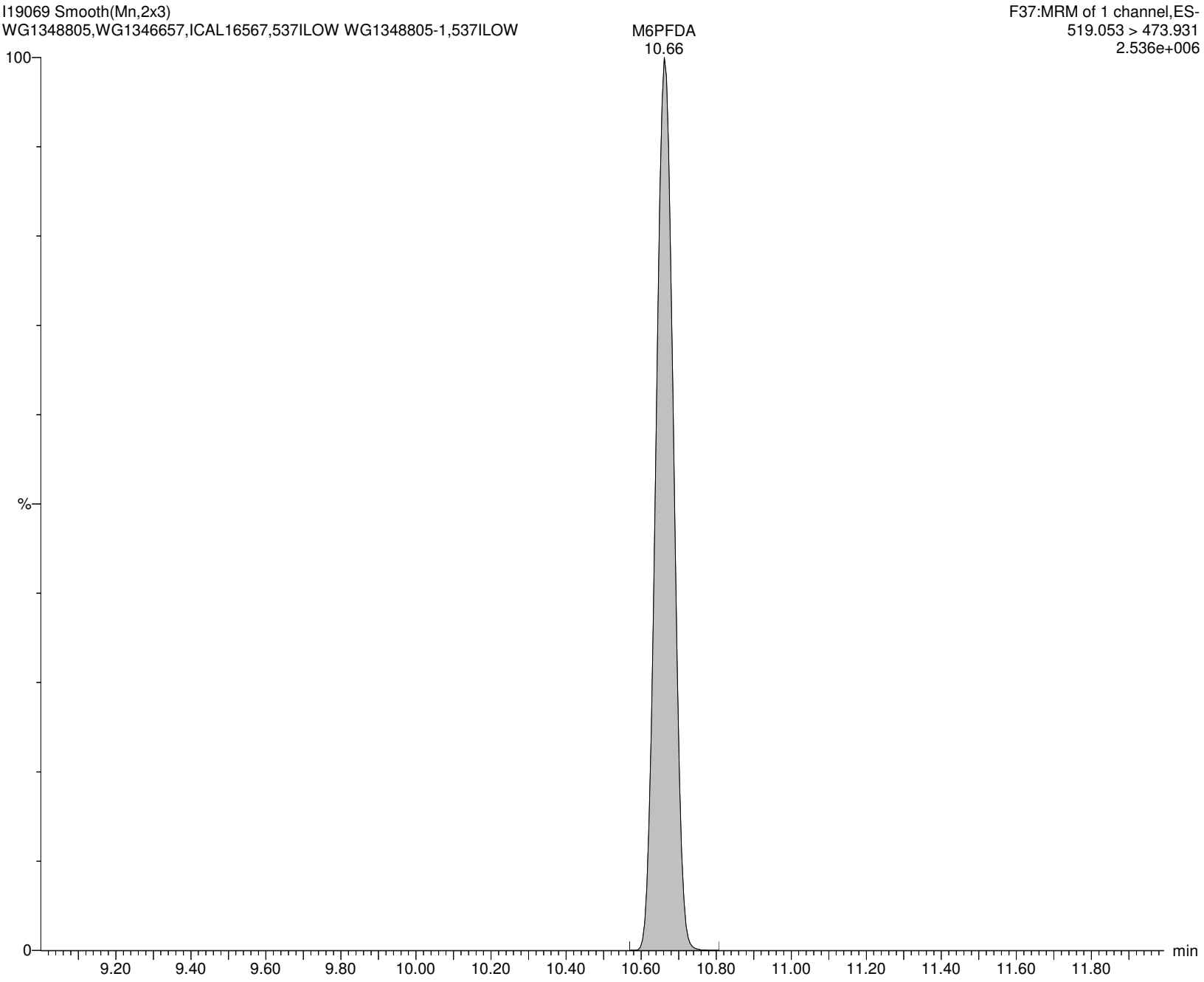

all concentration units in (ng/mL)

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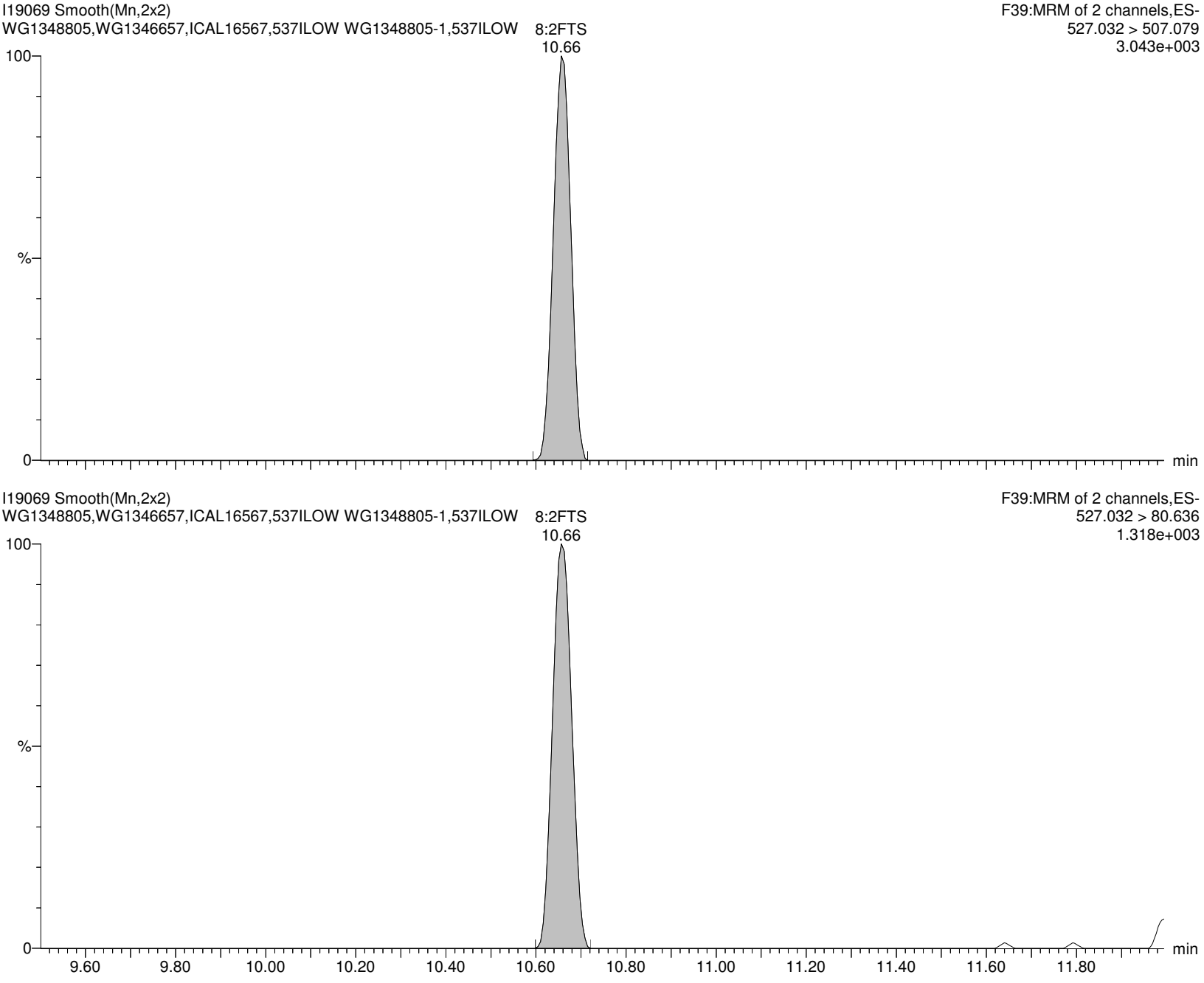

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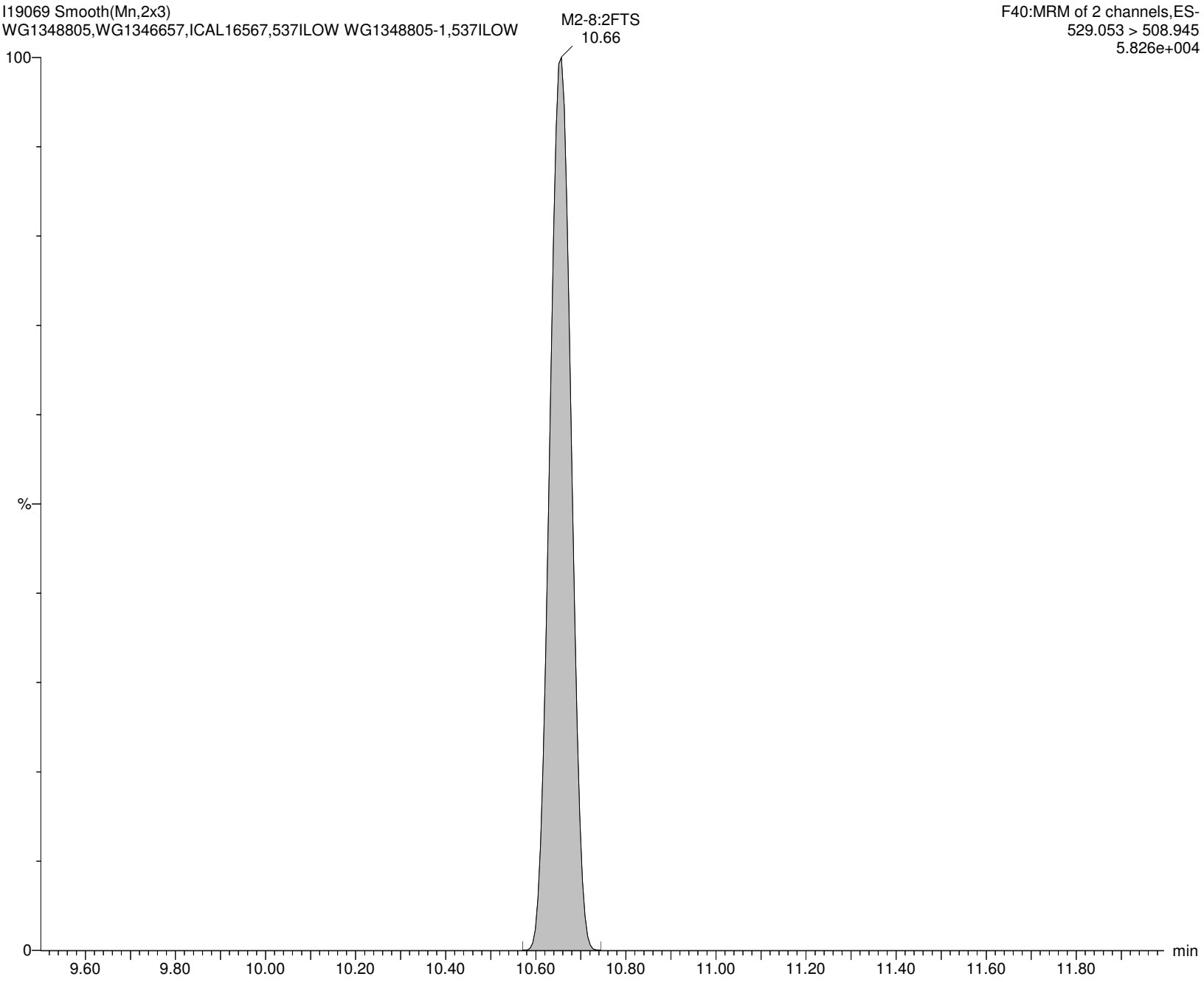
M2-8:2FTS



all concentration units in (ng/mL)

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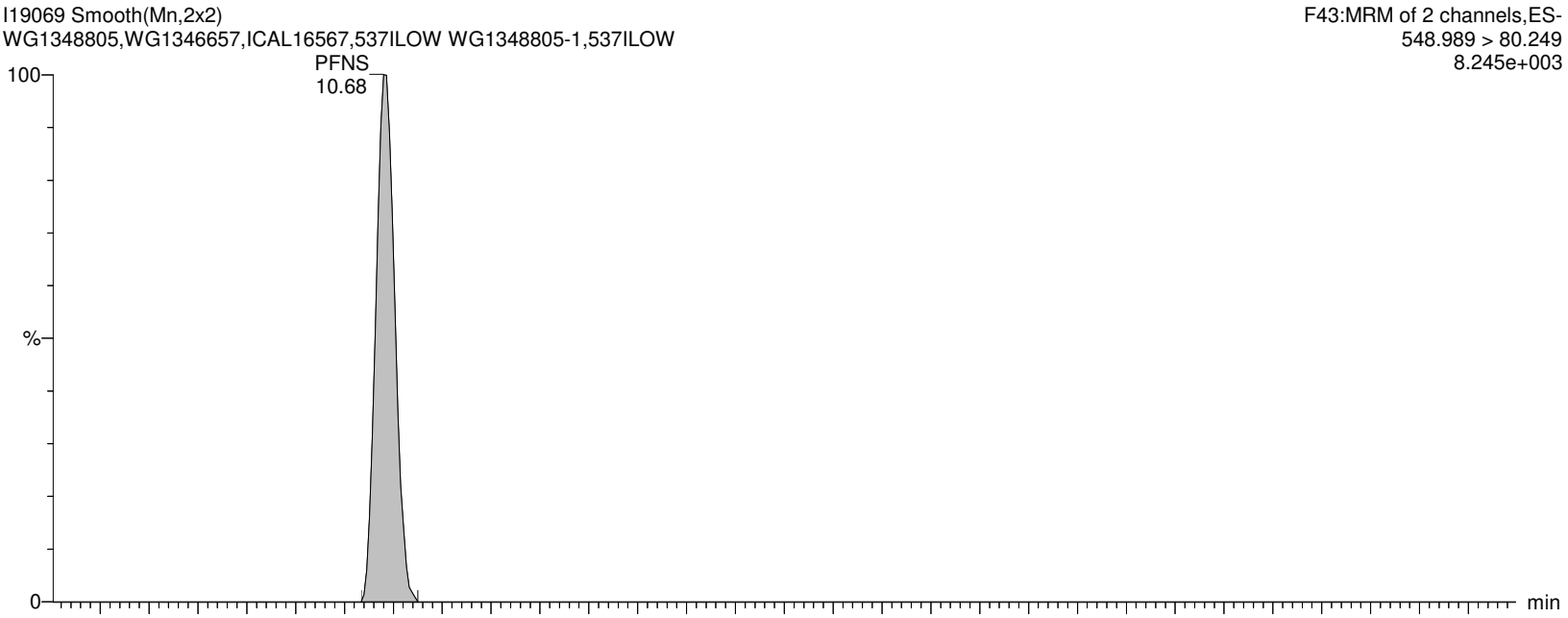

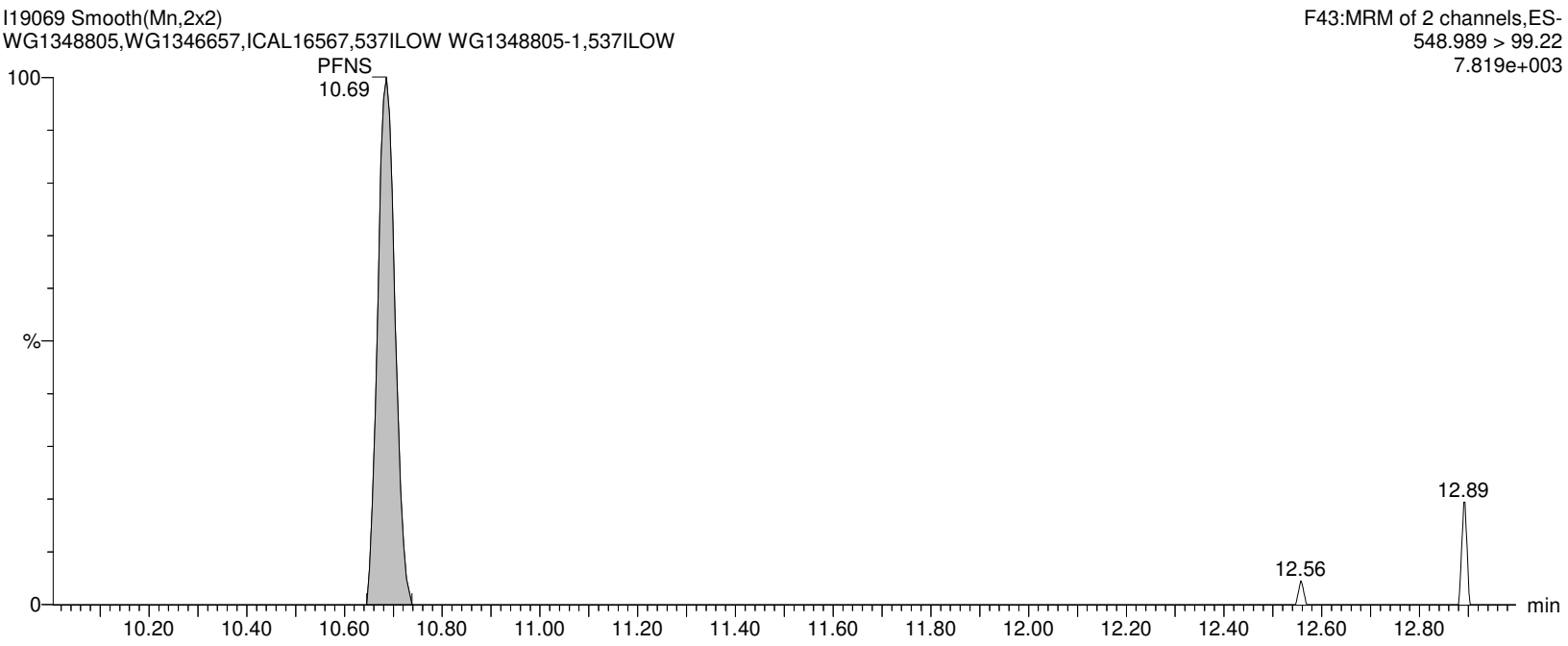

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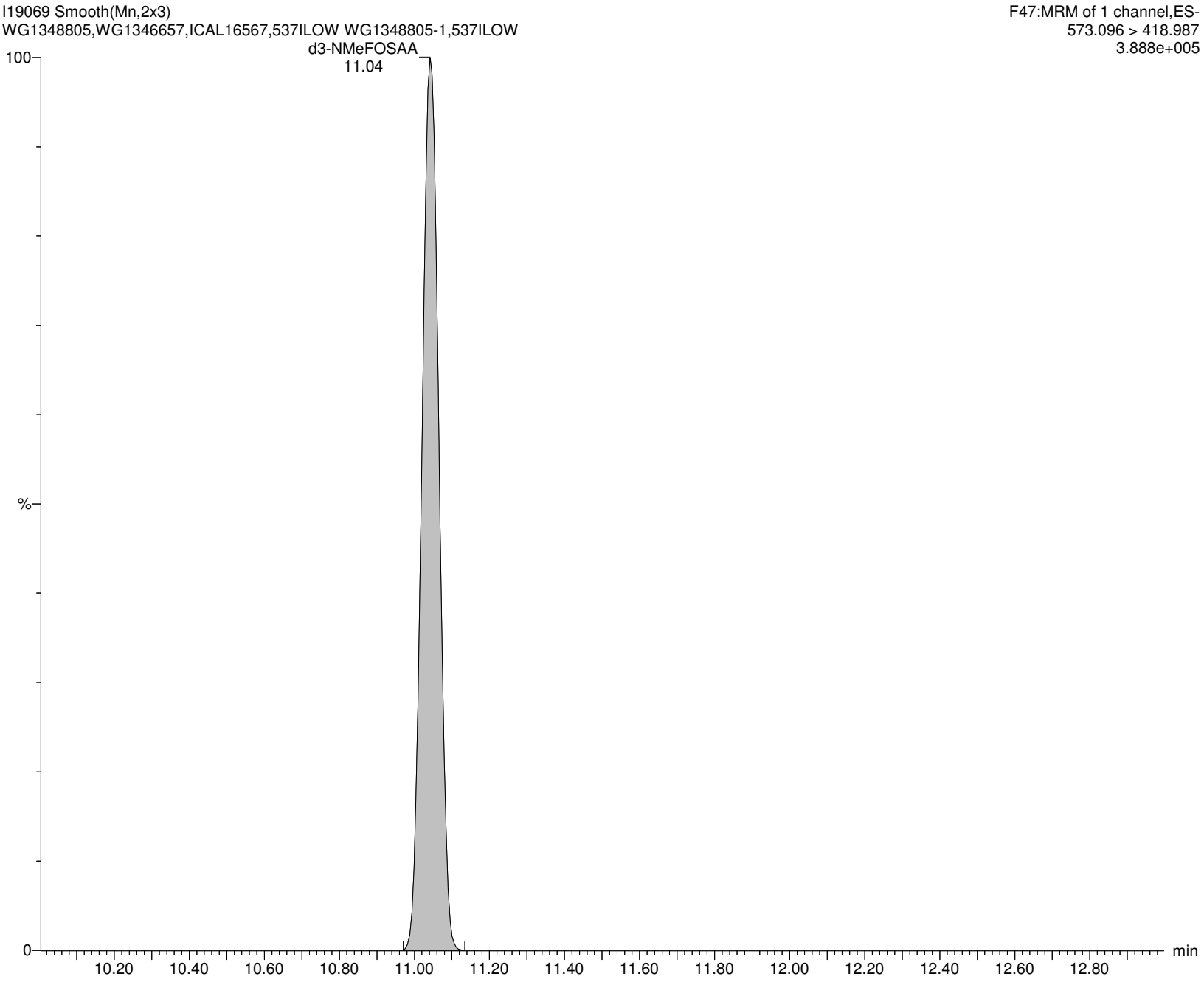
d3-NMeFOSAA



all concentration units in (ng/mL)

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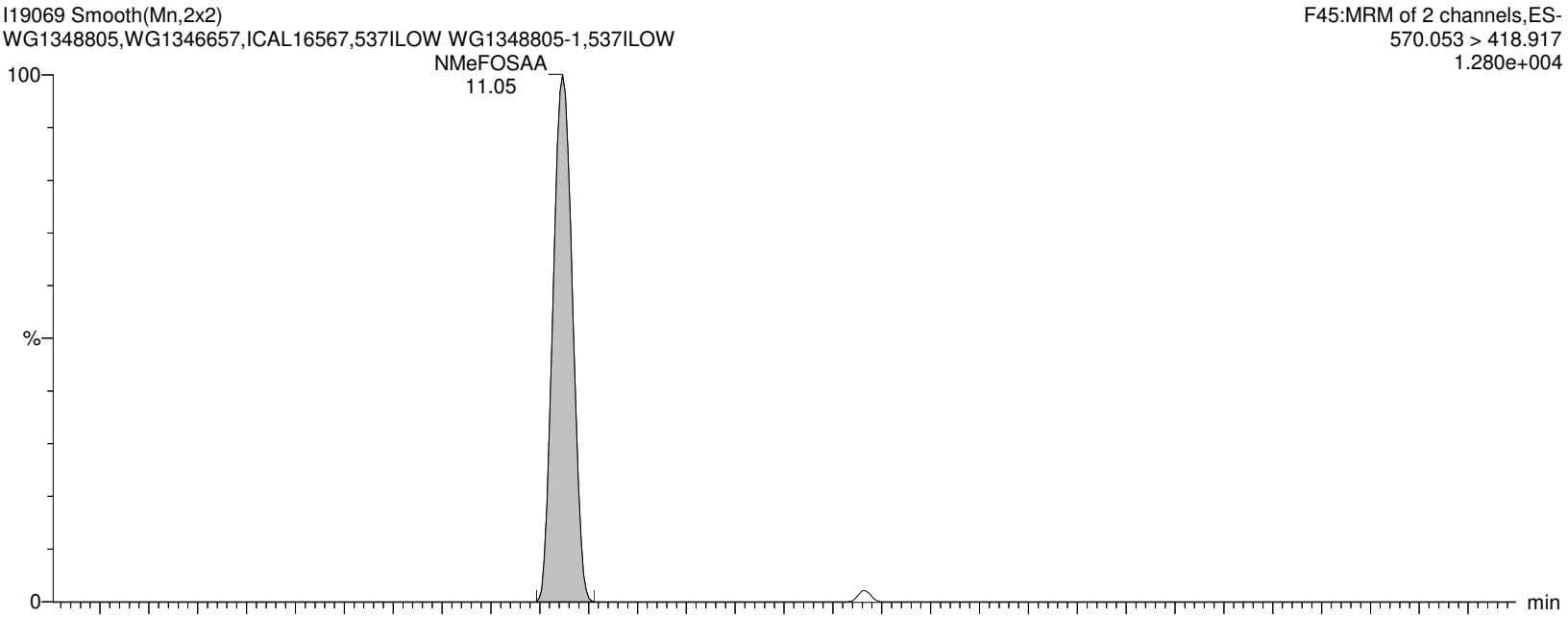

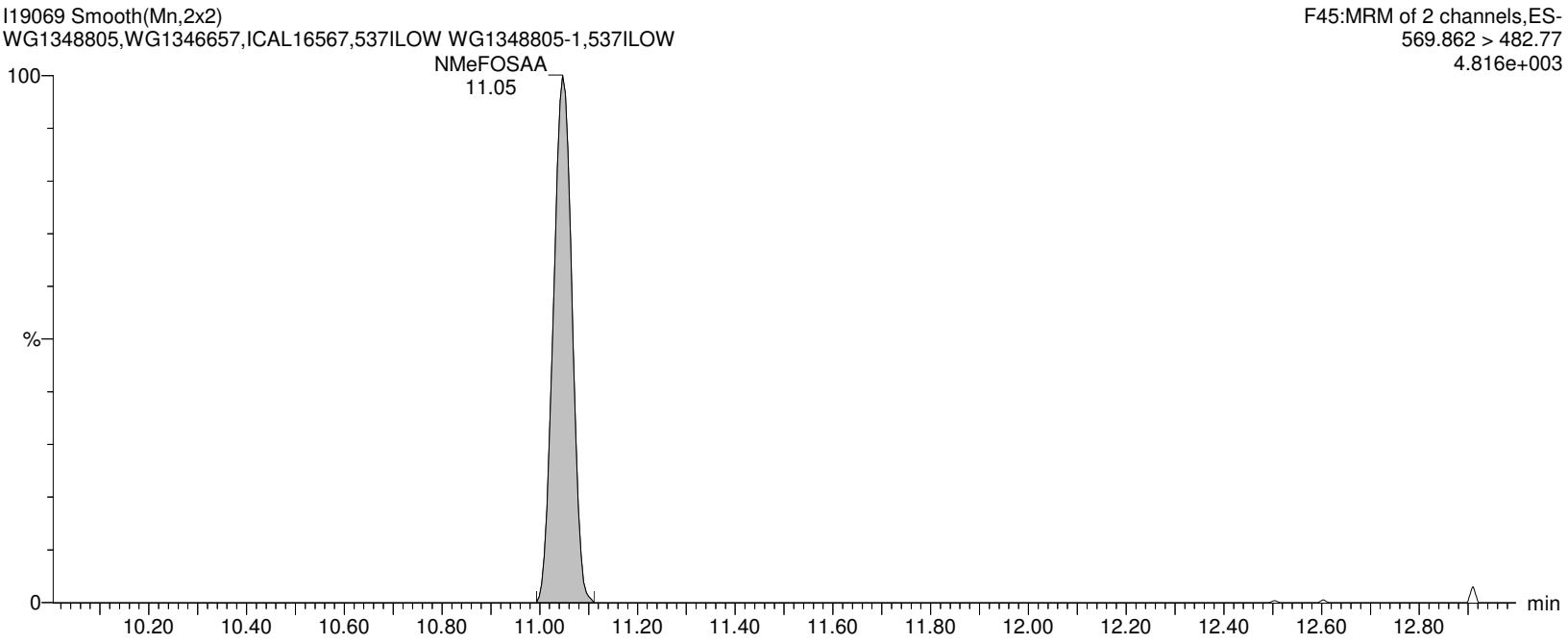

all concentration units in (ng/mL)

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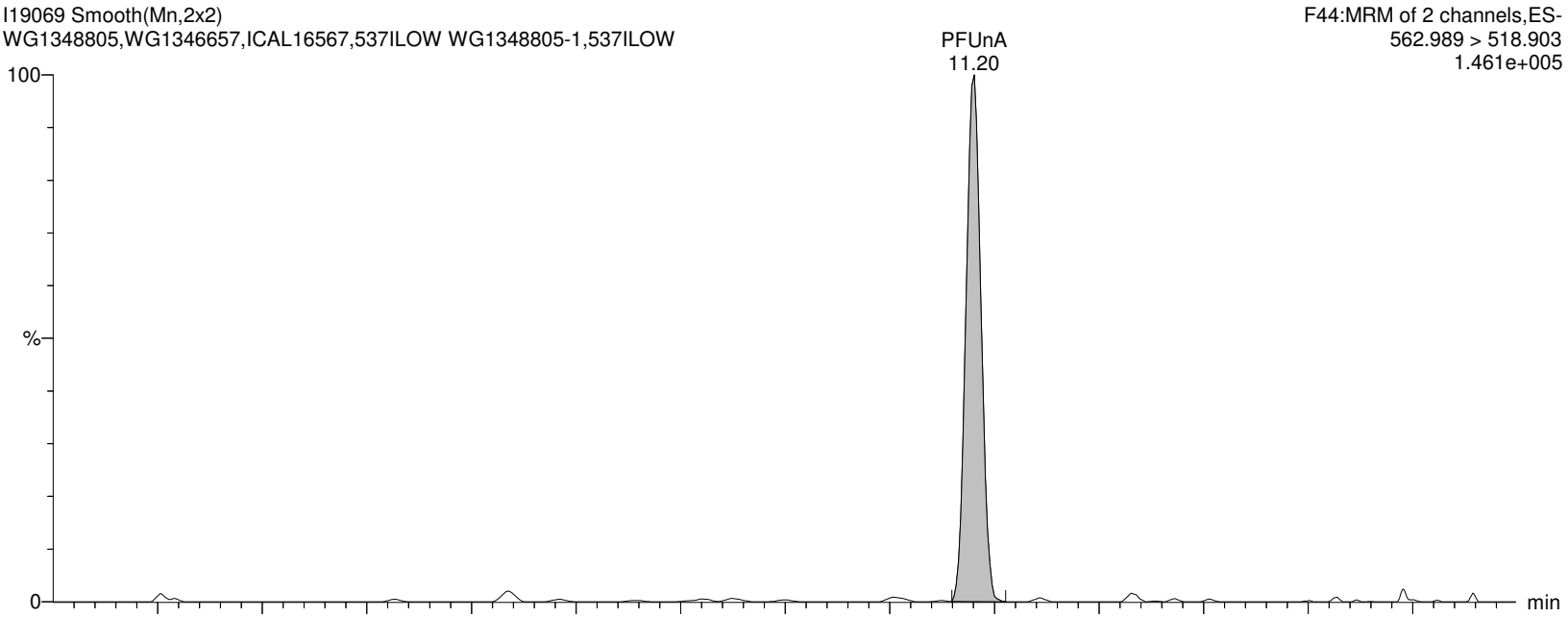

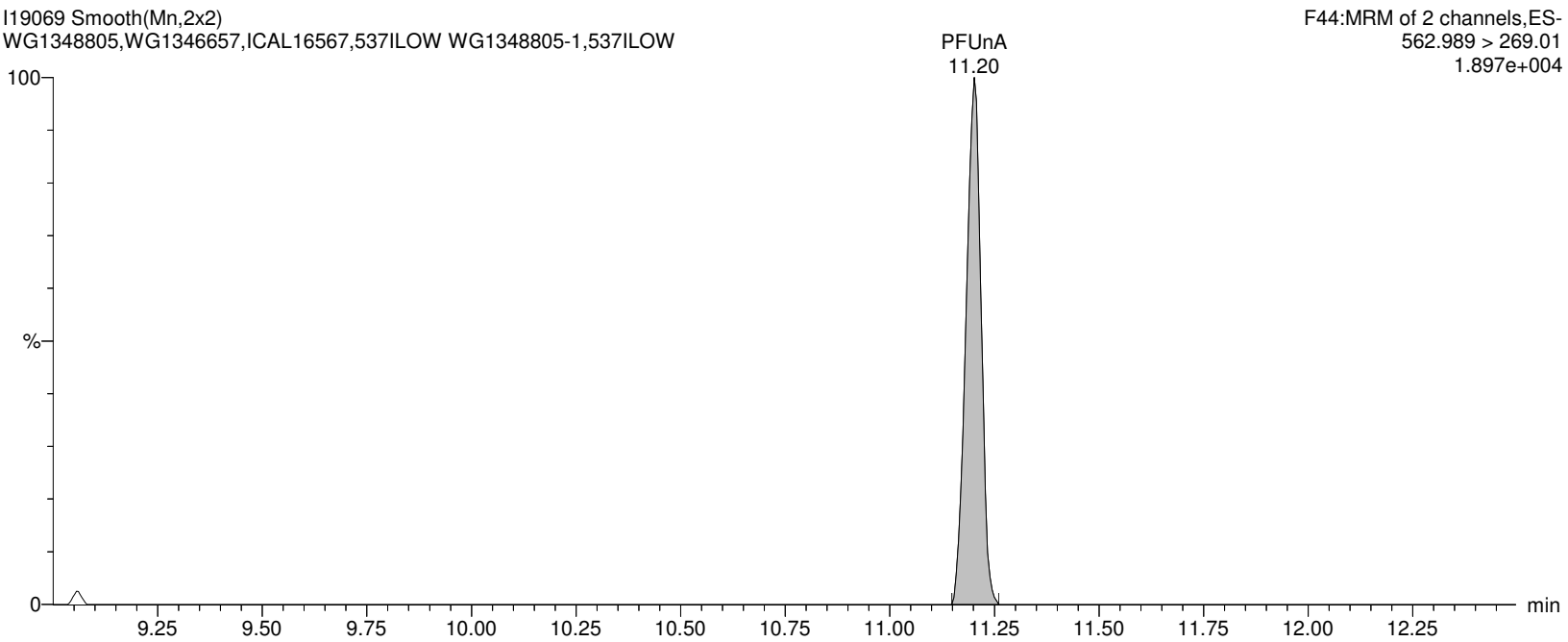

all concentration units in (ng/mL)

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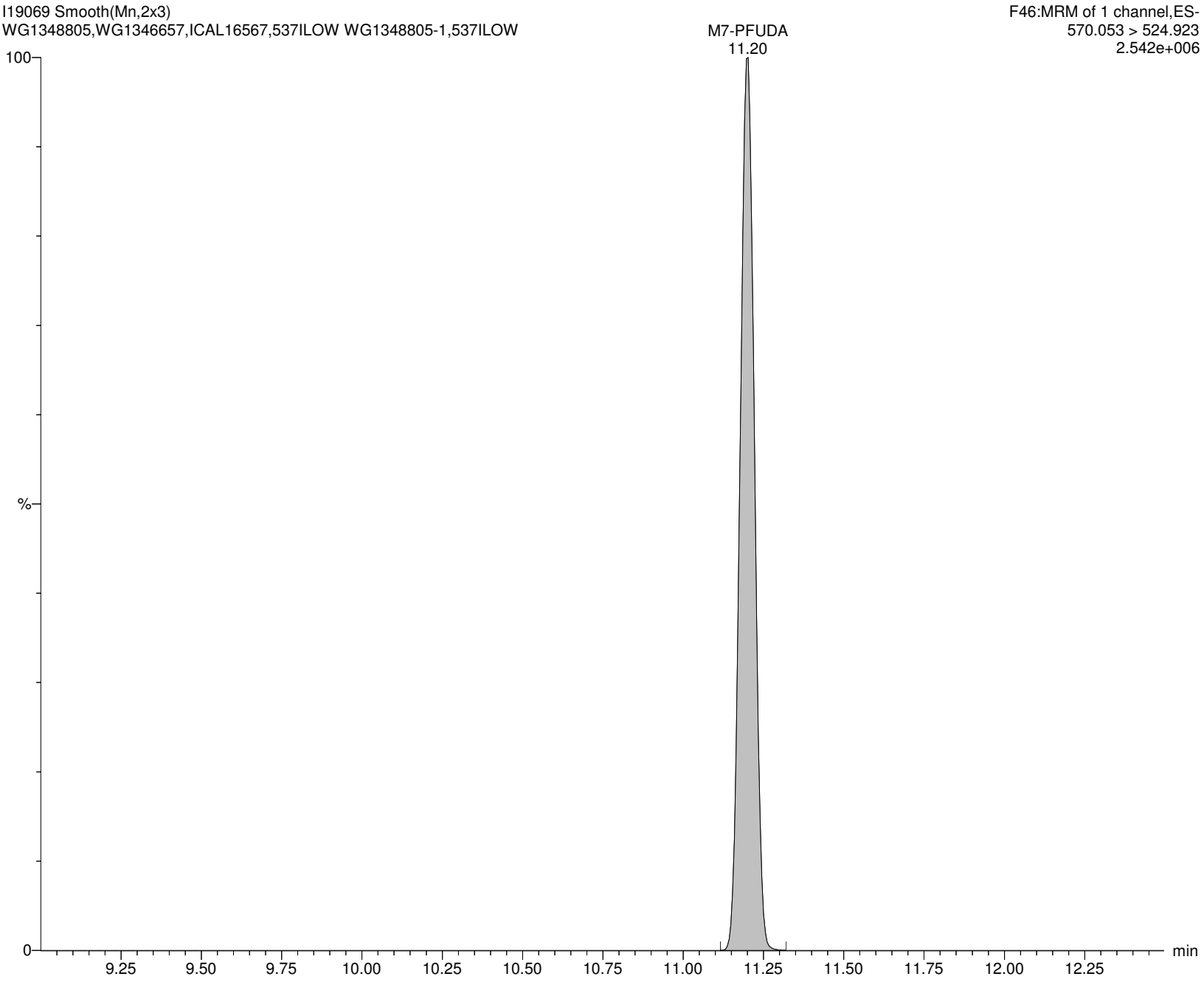

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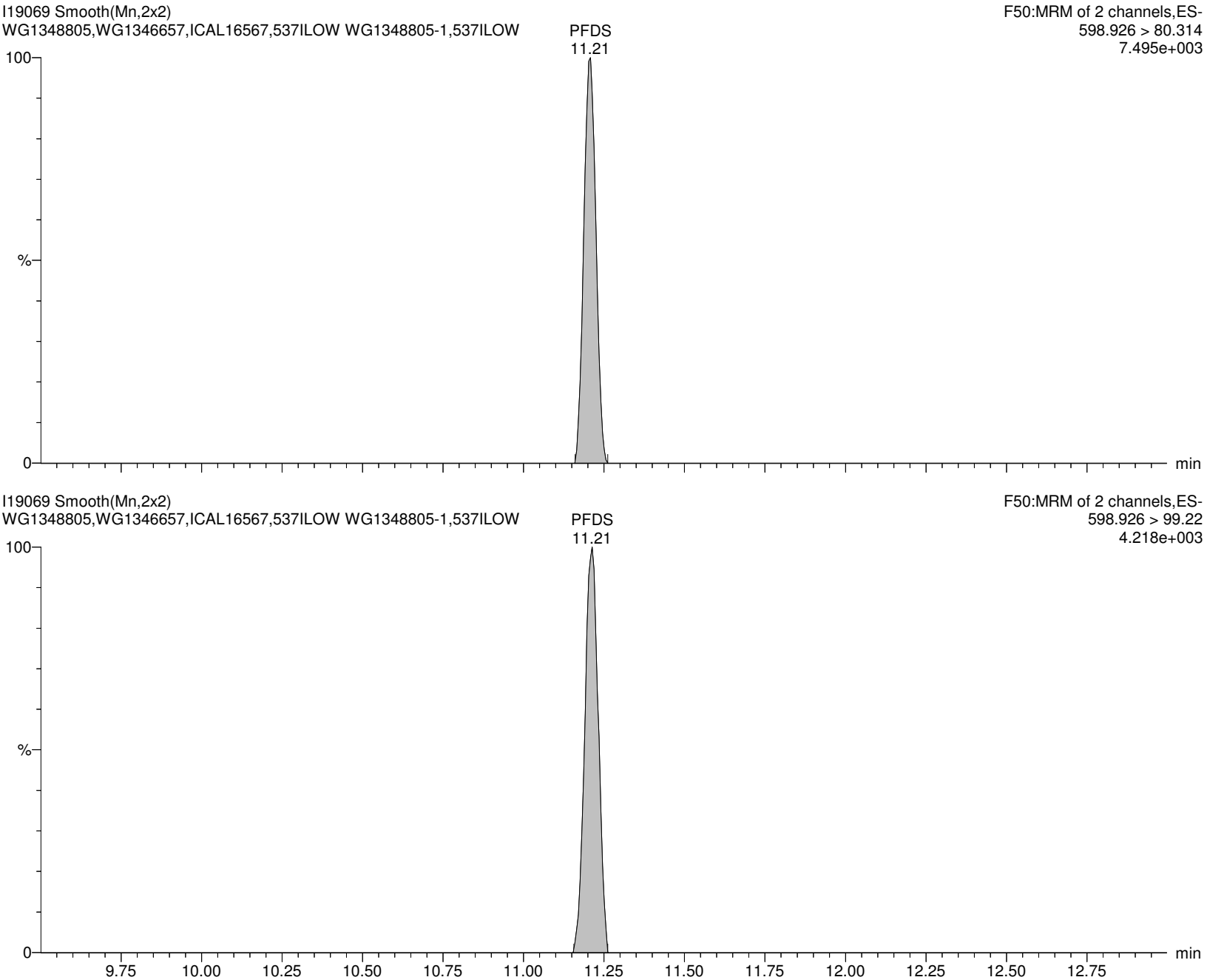

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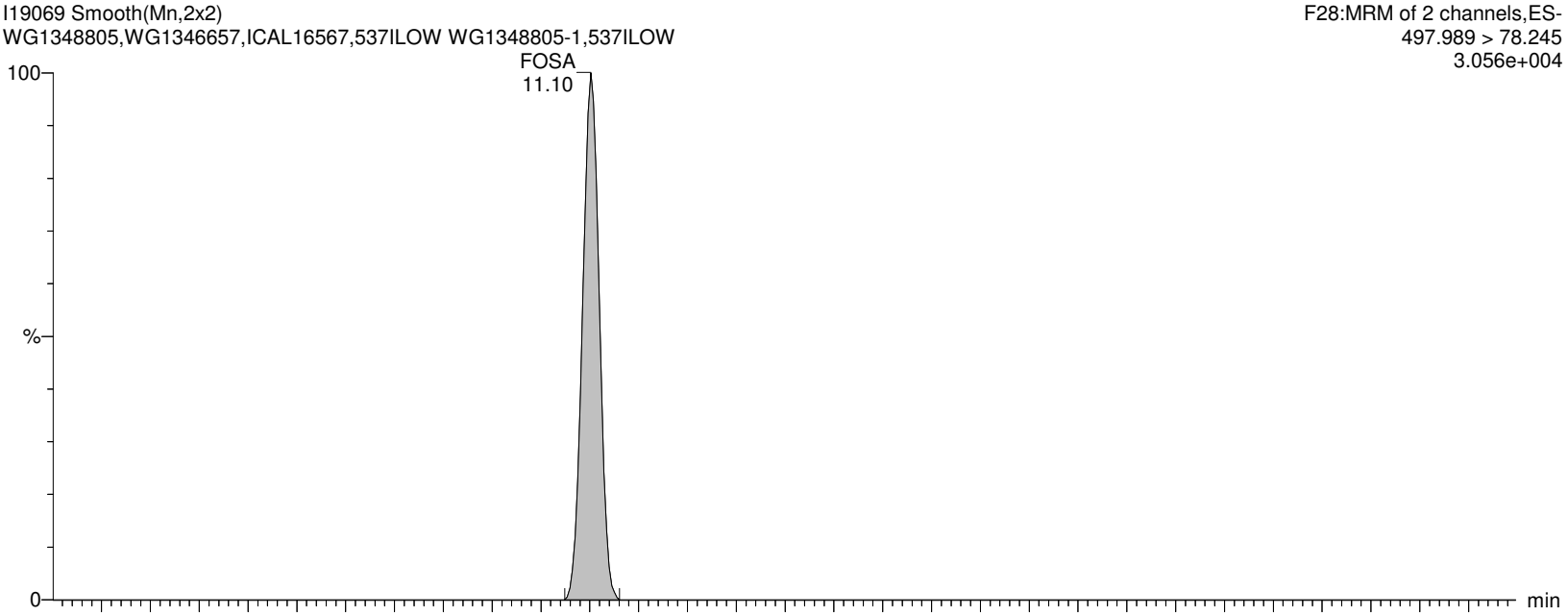

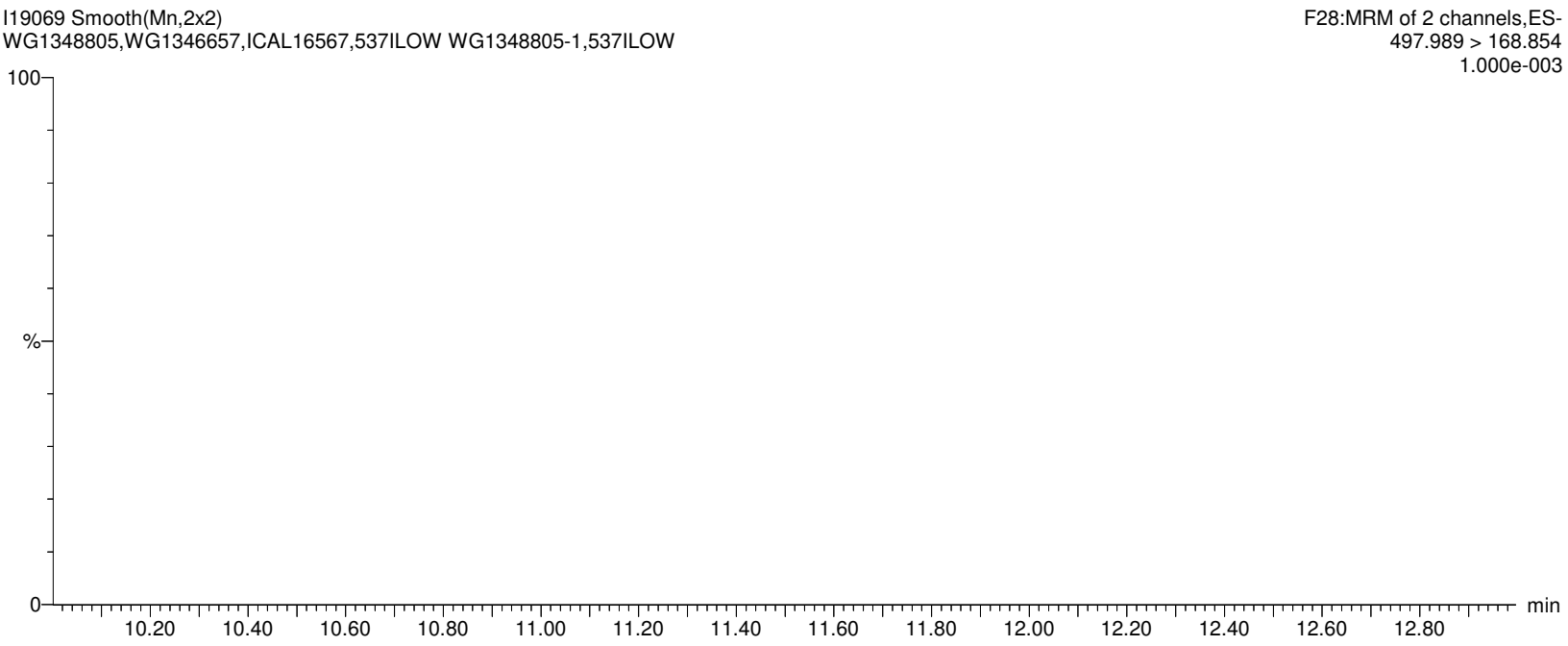

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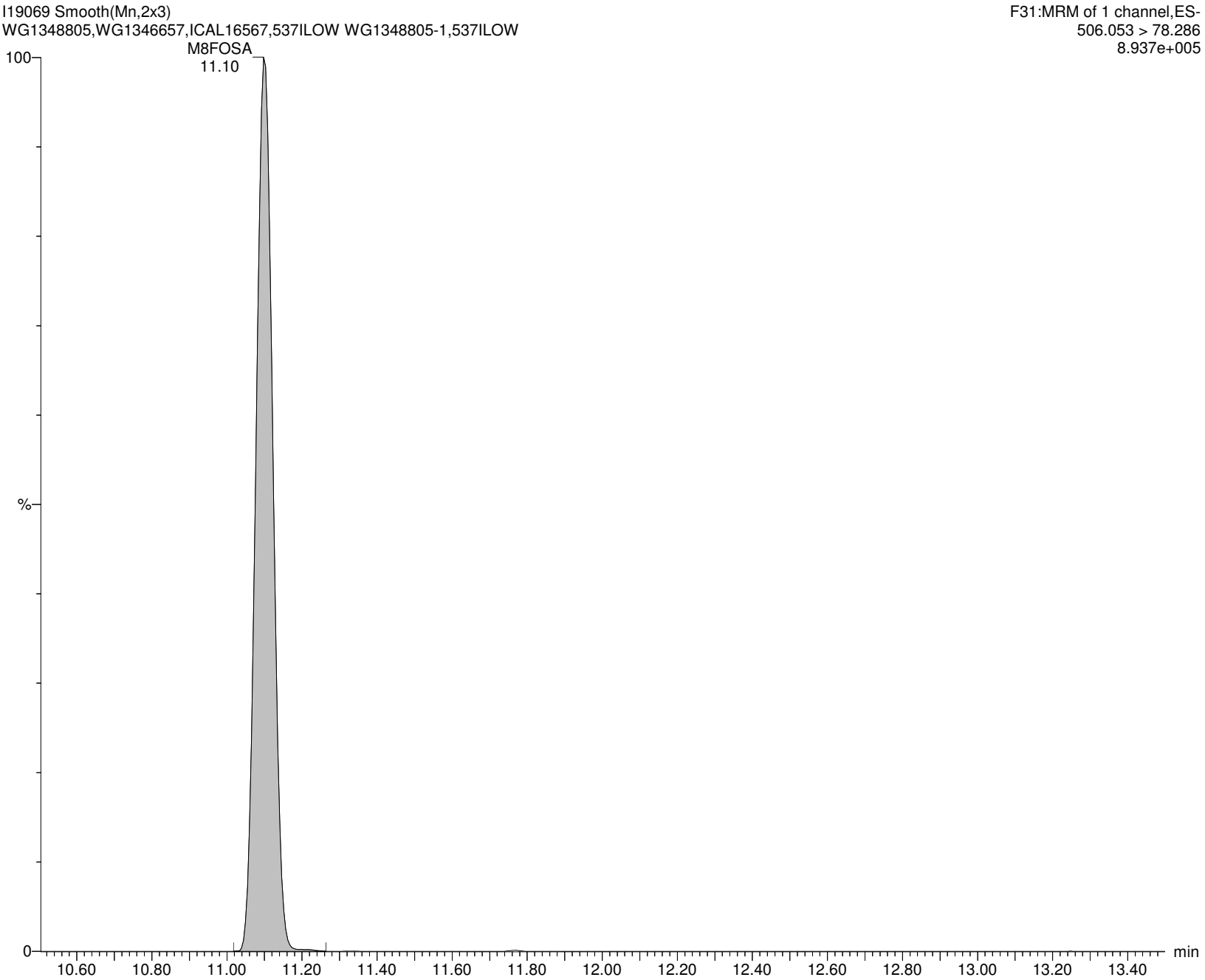
M8FOSA



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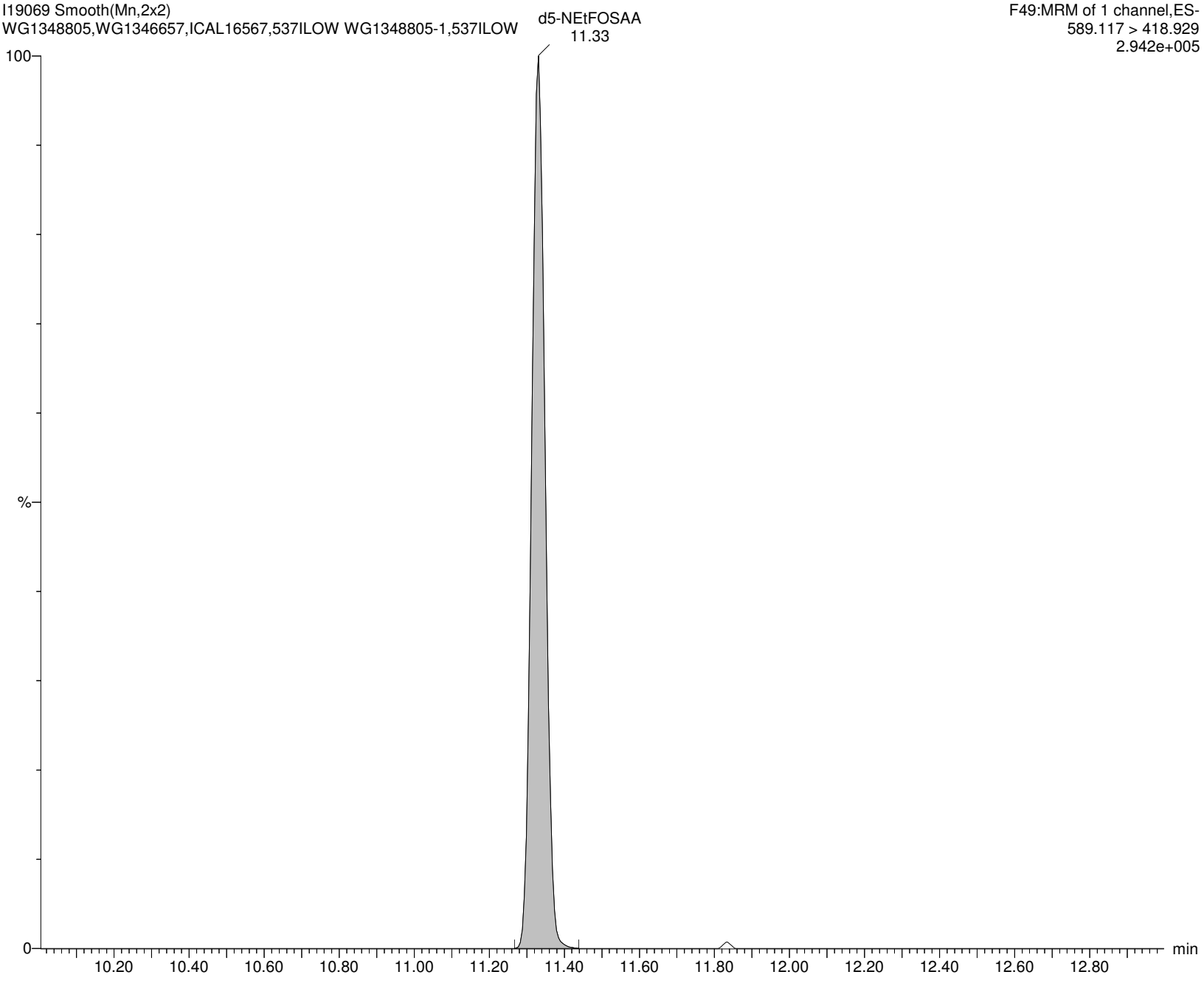
d5-NEtFOSAA



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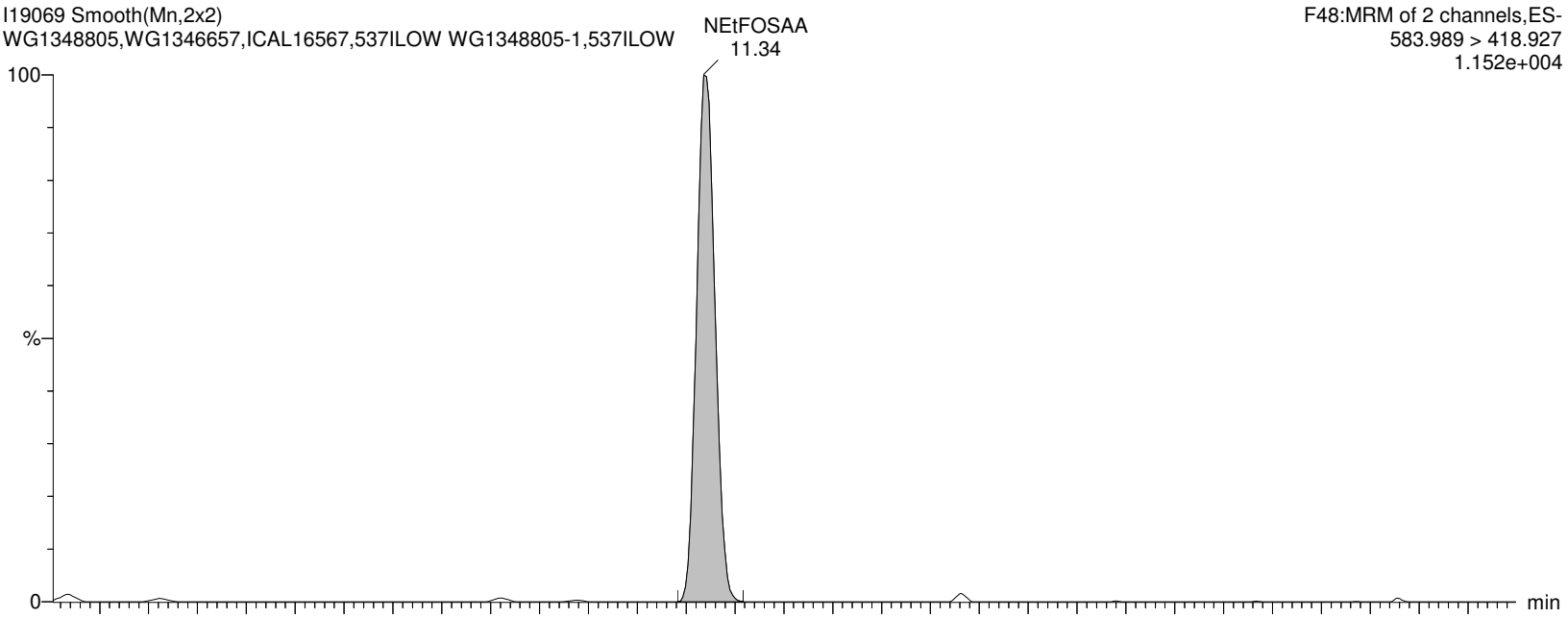
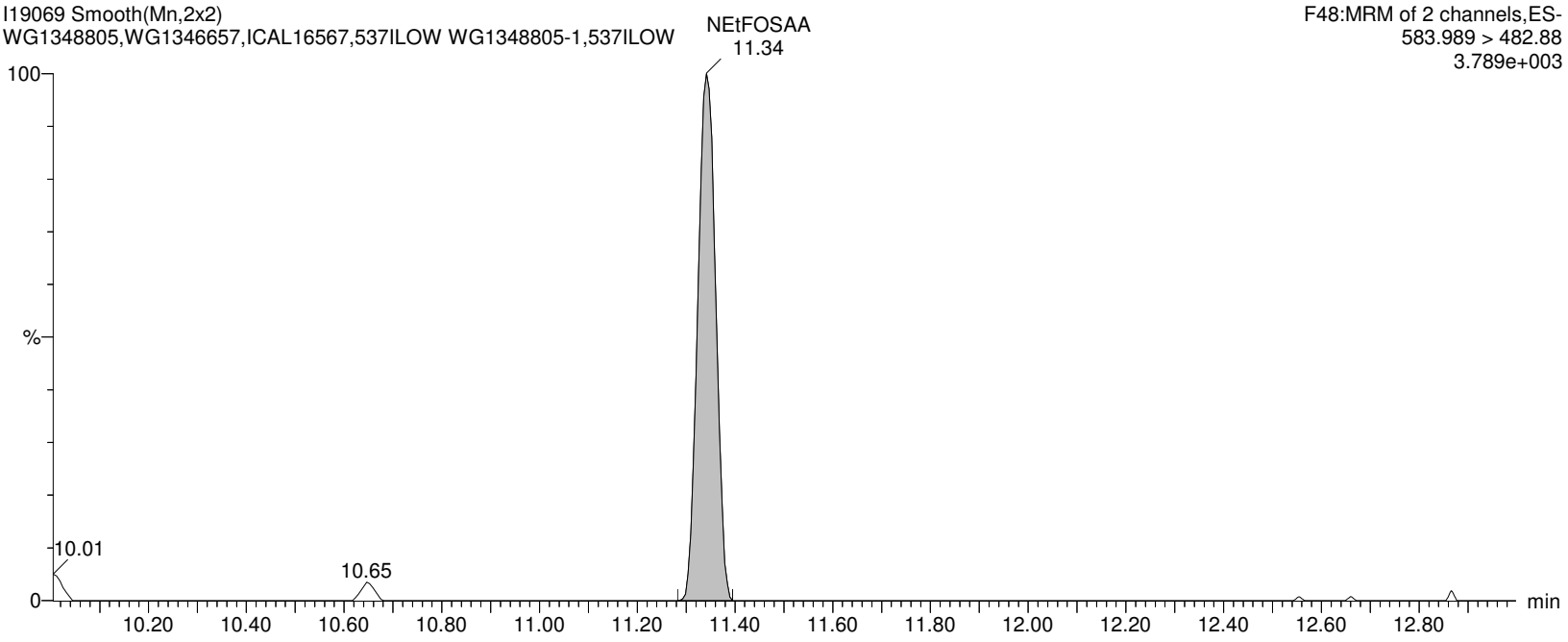
NEtFOSAA





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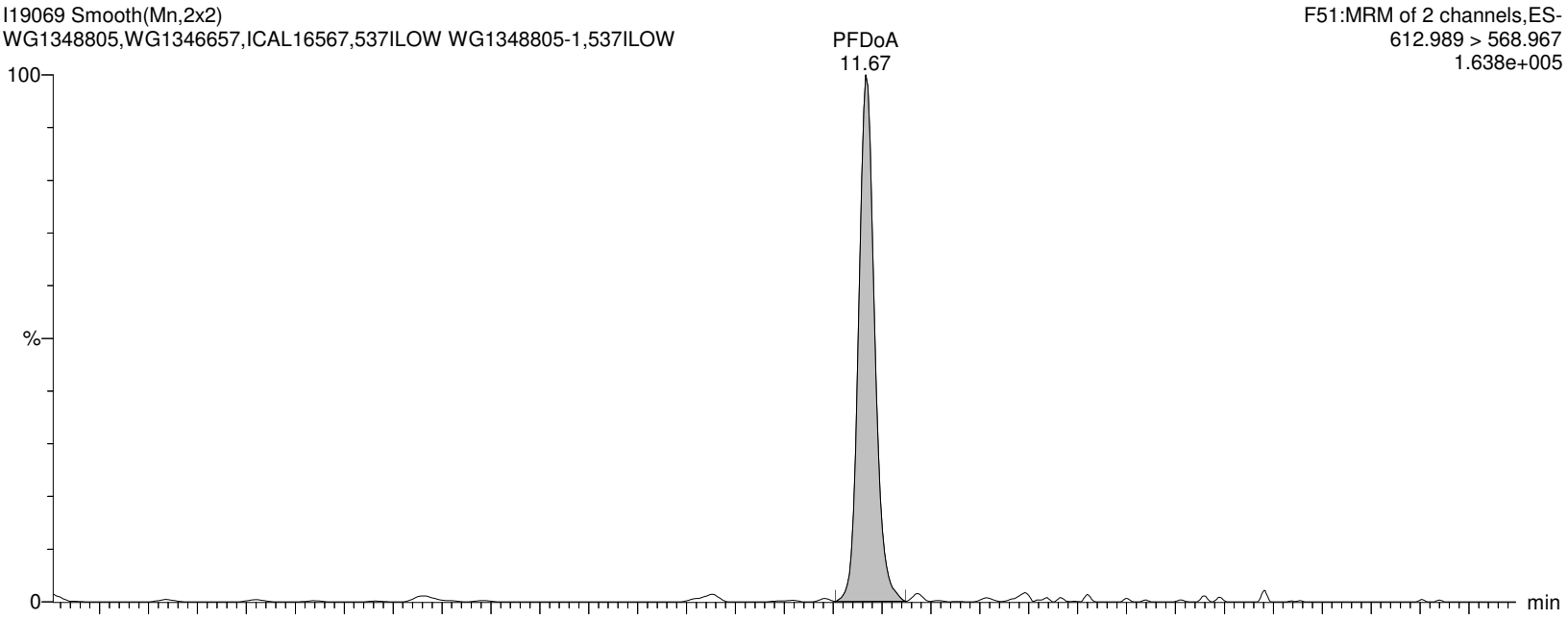

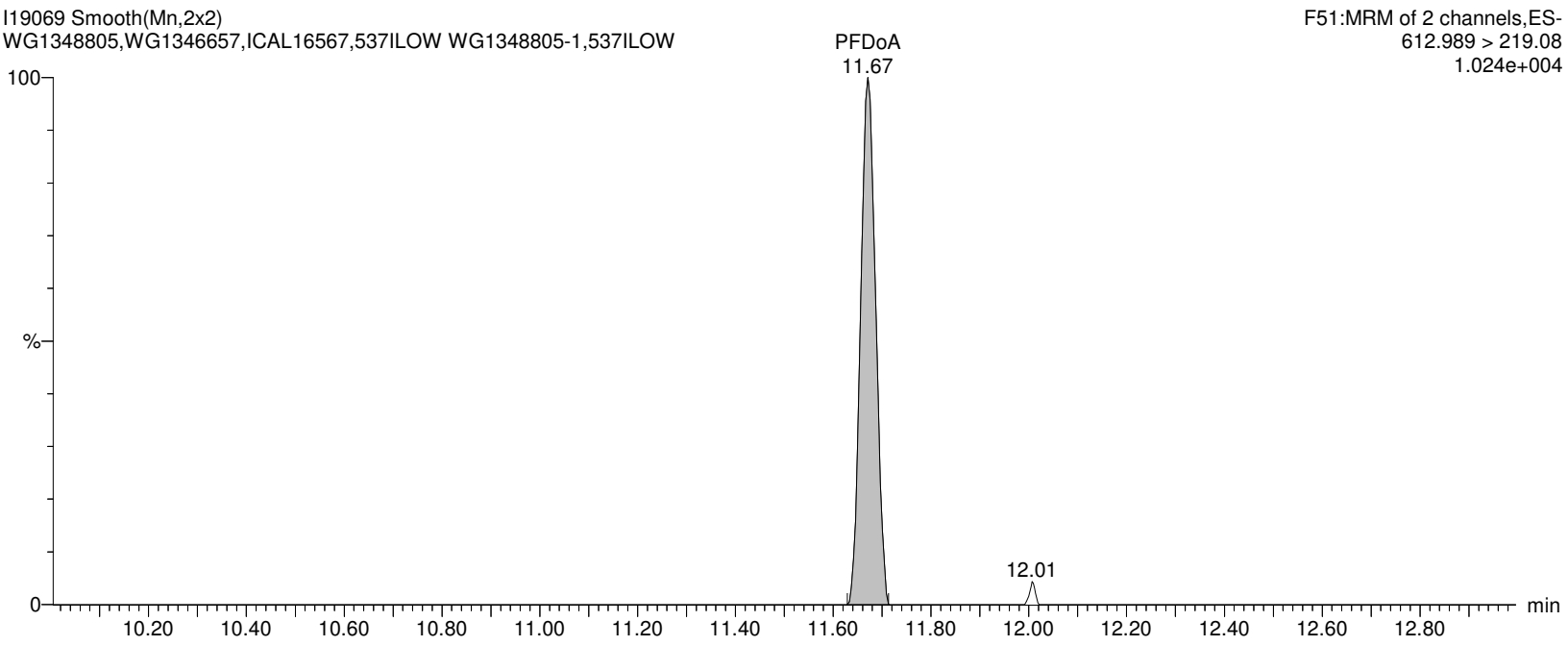

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805-1.qld
Last Altered: Tuesday, March 10, 2020 12:33:31 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:11:25 Eastern Daylight Time

Name: I19069
ID: WG1348805-1,537ILOW
Date: 09-Mar-2020
Time: 12:48:24
Description: WG1348805,WG1346657,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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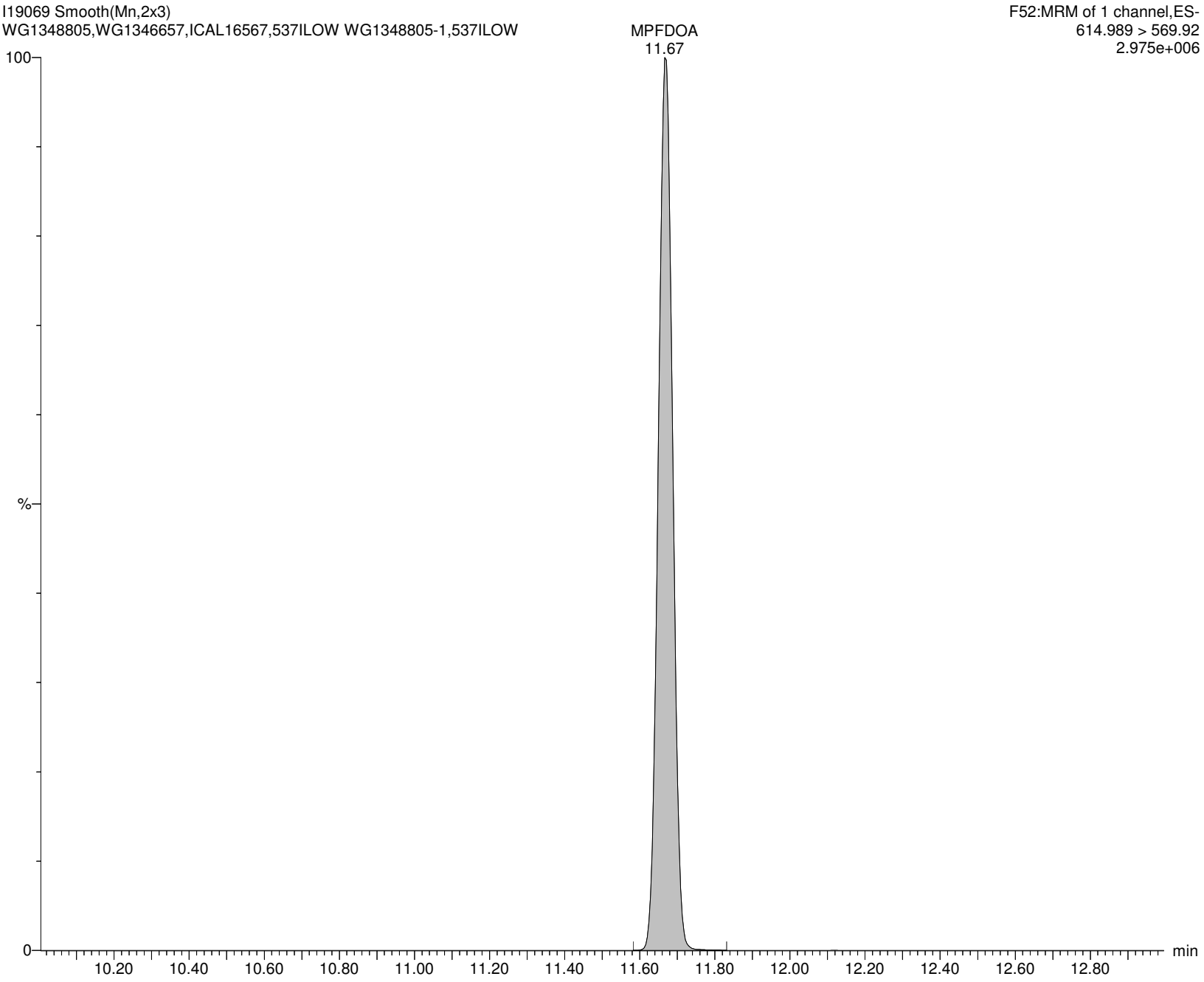

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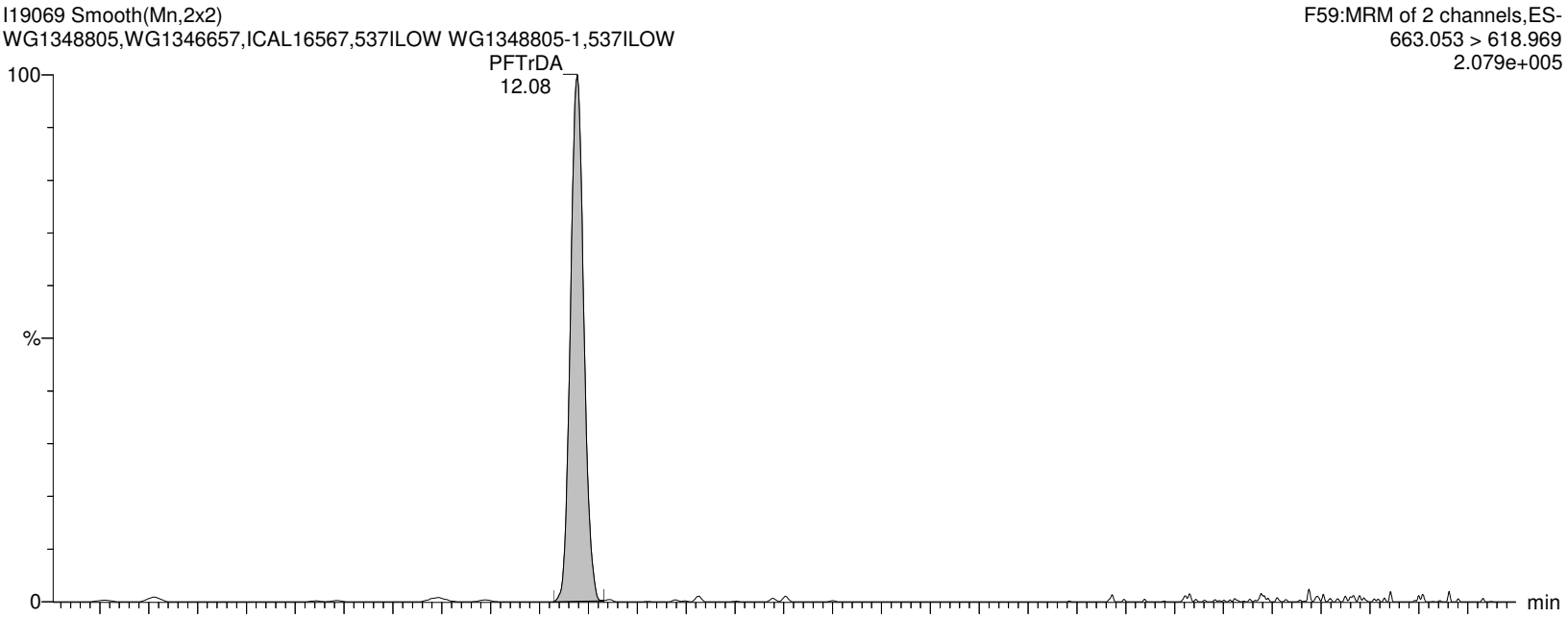

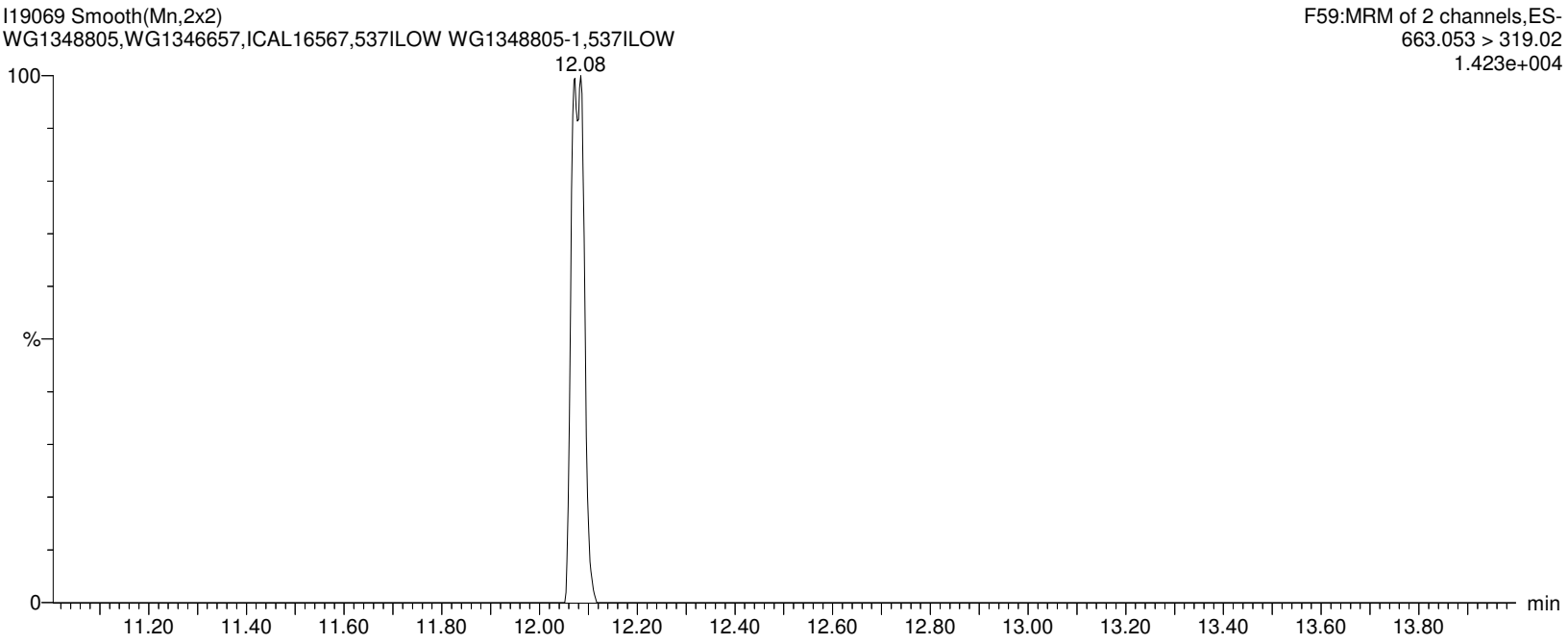

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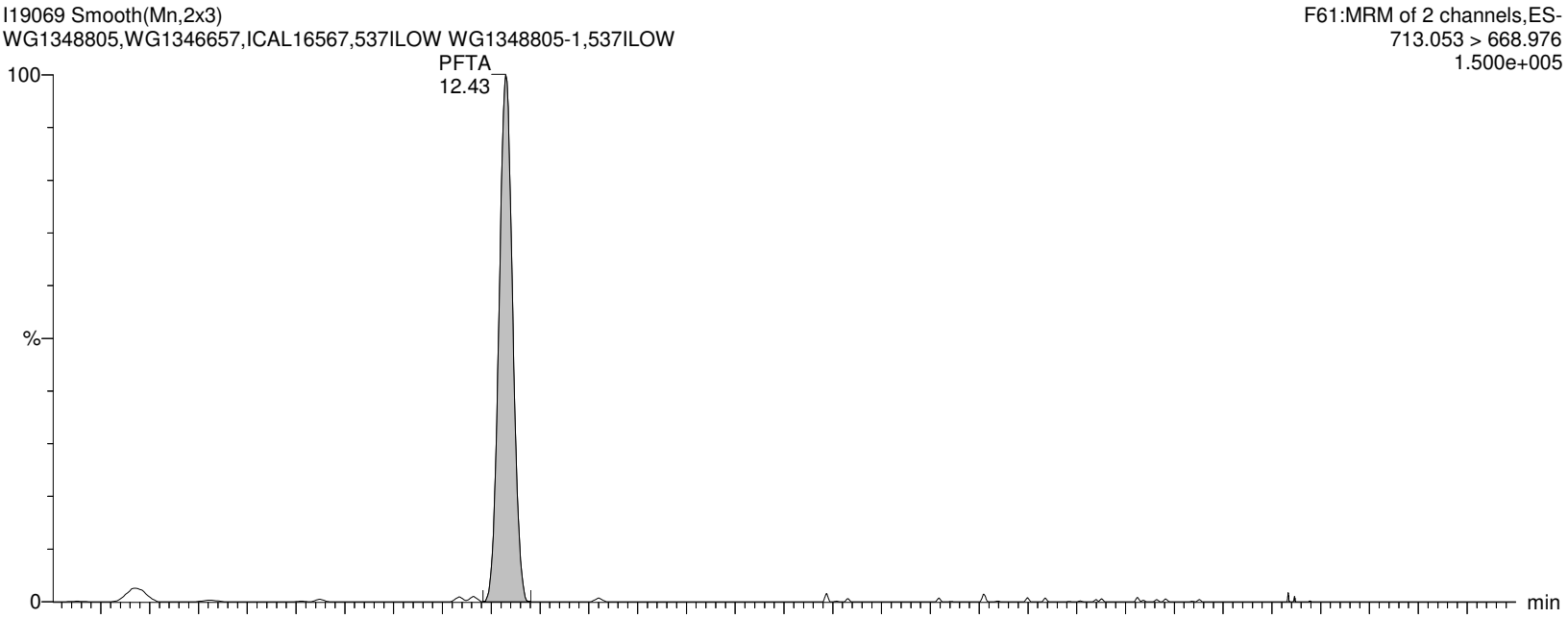

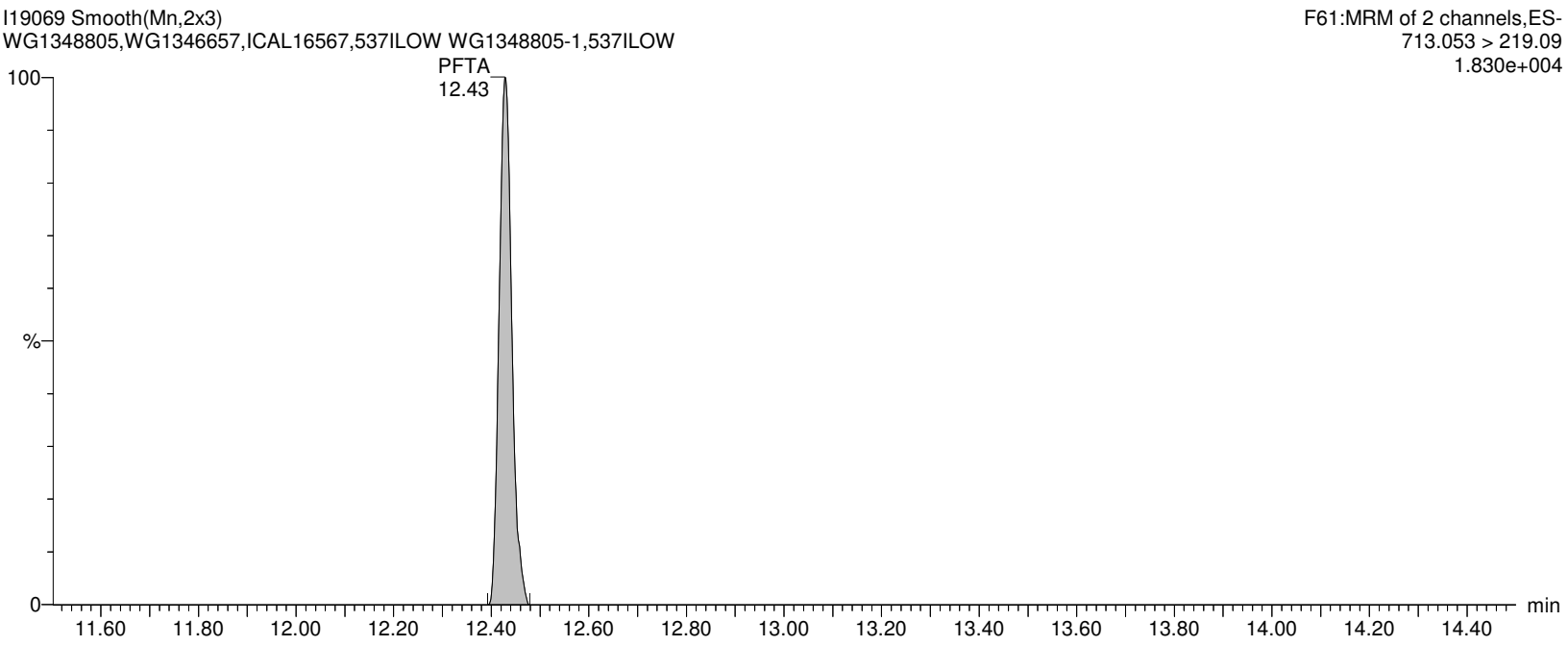

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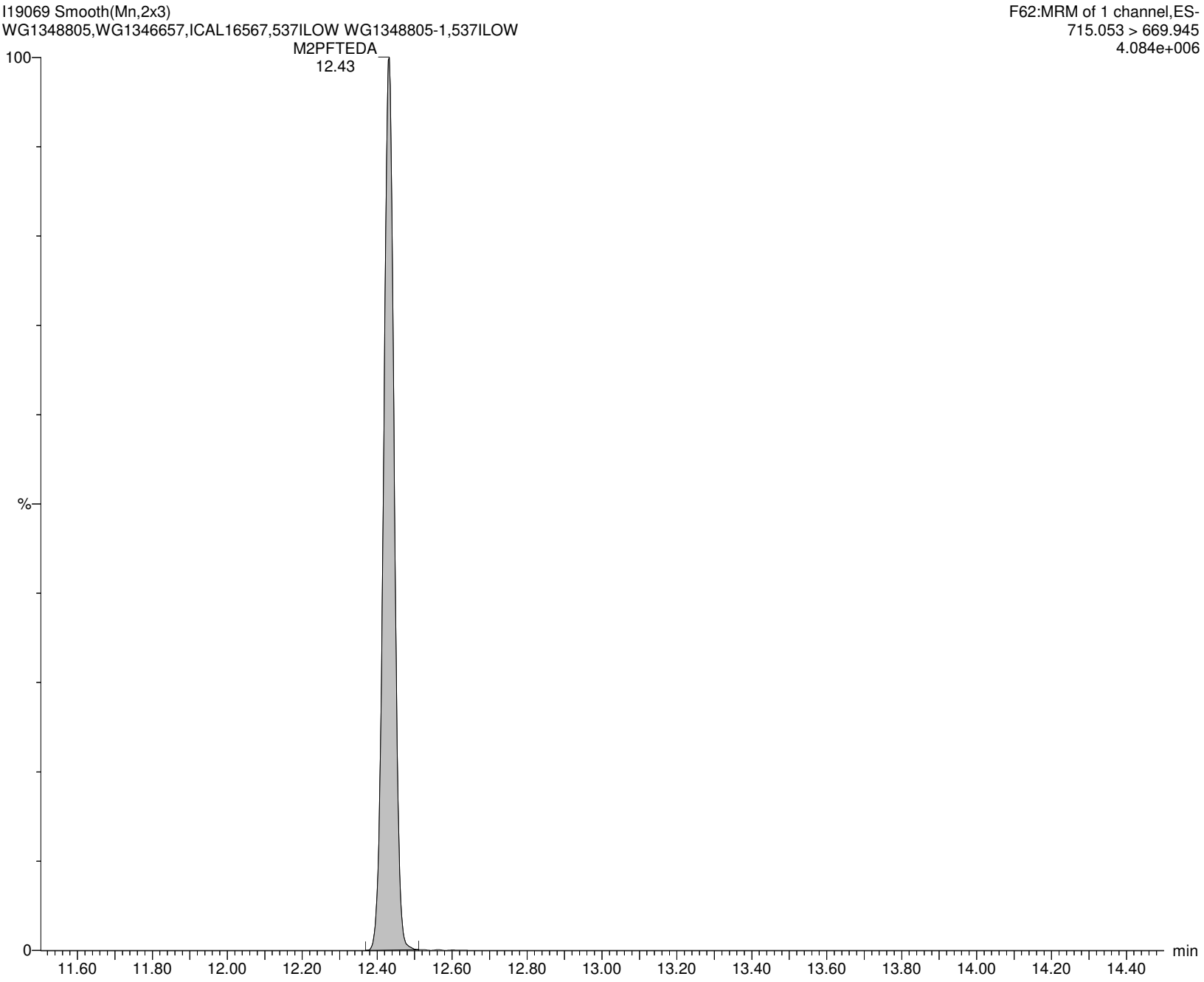

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Last Altered: Tuesday, March 10, 2020 20:06:08 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:08:36 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

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User: LCMS01:JW
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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.21	212.926 > 169.111	39632		9.994		na	99.9
2	M3PFBA	INT STD	2.21	215.926 > 172.122	48546		12.346		na	123.5
3	MPFBA	INT STD	2.21	216.926 > 172.137	54828		9.856		na	98.6
4	PFPeA	2706-90-3	5.17	262.926 > 219.002	54736	M4	10.231		na	102.3
5	M5PFPEA	INT STD	5.17	267.989 > 223.081	76954		10.427		na	104.3
6	PFBS	375-73-5	5.84	298.926 > 79.923	12109		8.999	2.01	NO	101.7
7	M3PFBS	INT STD	5.84	301.989 > 80.254	14917		8.697		na	87.0
8	4:2FTS	757124-72-4	7.01	326.926 > 306.957	5013		9.797	1.79	NO	104.8
9	M2-4:2FTS	INT STD	7.01	329.117 > 309.079	6414		7.179		na	71.8
10	PFHxA	307-24-4	7.09	312.989 > 269.028	78183		9.987	17.37	NO	99.9
11	M5PFHxA	INT STD	7.09	317.989 > 273.045	94507		9.115		na	91.1
12	PFPeS	2706-91-4	7.41	348.926 > 80.251	13235		9.615	2.34	NO	102.3
13	PFHpA	375-85-9	8.36	362.926 > 319.014	99767		9.313	4.98	NO	93.1
14	M4PFHpA	INT STD	8.36	366.926 > 321.979	116995		9.726		na	97.3
15	br-PFHxS	355-46-4	8.28	398.904 > 79.915	1937		1.800		YES	105.9
16	L-PFHxS	355-46-4	8.52	398.904 > 79.915	8546		7.981	2.03	NO	107.8
17	PFHxS	355-46-4		398.904 > 79.915	10483		9.780		na	
18	M3PFHxS	INT STD	8.52	401.926 > 80.317	14475		9.421		na	94.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.30	412.989 > 368.9	97973		9.769	8.84	NO	97.7
21	M2PFOA	INT STD	9.30	415.032 > 369.968	126646		15.053		na	150.5
22	PFOA	335-67-1		412.989 > 368.9	97973		9.769		na	
23	M8PFOA	INT STD	9.30	420.989 > 375.979	116717		9.665		na	96.6
24	6:2FTS	27619-97-2	9.26	426.989 > 406.921	1374		10.659	0.73	NO	112.2
25	M2-6:2FTS	INT STD	9.26	428.989 > 408.917	5405		9.721		na	97.2
26	PFHpS	375-92-8	9.39	448.926 > 80.257	8116		10.246	1.10	NO	107.9
27	PFNA	375-95-1	10.05	462.989 > 418.931	95258		10.325	4.08	NO	103.2
28	M9PFNA	INT STD	10.05	472.053 > 426.947	123999		10.502		na	105.0
29	br-PFOS	1763-23-1	9.91	498.968 > 79.918	2427	M5	2.049	4.06	NO	102.5
30	L-PFOS	1763-23-1	10.09	498.968 > 79.918	6470		7.593	1.30	NO	104.0
31	PFOS	1763-23-1		498.968 > 79.918	8897		9.642		na	
32	M4PFOS	INT STD	10.09	503.032 > 80.306	13369		15.739		na	157.4
33	M8PFOS	INT STD	10.09	507.053 > 80.294	15751		10.145		na	101.5
34	PFDA	335-76-2	10.67	513.053 > 468.906	87790		9.763	5.76	NO	97.6
35	M2PFDA	INT STD	10.67	515.053 > 469.934	107899		16.312		na	163.1
36	M6PFDA	INT STD	10.67	519.053 > 473.931	117398		9.889		na	98.9
37	8:2FTS	39108-34-4	10.66	527.032 > 507.079	2090		10.128	1.68	NO	105.5
38	M2-8:2FTS	INT STD	10.66	529.053 > 508.945	3153		9.379		na	93.8
39	PFNS	68259-12-1	10.70	548.989 > 80.249	12046		11.304	1.60	NO	117.8

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 10, 2020 20:06:08 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:08:36 Eastern Daylight Time

ID: WG1348805-2,537IMED
Name: I19084
Date: 09-Mar-2020
Time: 17:03:03
Description: WG1348805,WG1347919,ICAL16567,537IMED
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.05	573.096 > 418.987	17854		11.353		na	113.5
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	11689		10.956	2.64	NO	109.6
42	PFUnA	2058-94-8	11.21	562.989 > 518.903	99453		9.863	8.08	NO	98.6
43	M7-PFUDA	INT STD	11.21	570.053 > 524.923	108632		10.414		na	104.1
44	PFDS	335-77-3	11.22	598.926 > 80.314	10609		10.227	1.72	NO	106.0
45	FOSA	754-91-6	11.11	497.989 > 78.245	31435		9.515	358.79	NO	95.1
46	M8FOSA	INT STD	11.10	506.053 > 78.286	40095		8.428		na	84.3
47	d5-NEtFOSAA	INT STD	11.34	589.117 > 418.929	12001		10.465		na	104.6
48	NEtFOSAA	2991-50-6	11.35	583.989 > 418.927	10047		9.814	3.05	NO	98.1
49	PFDoA	307-55-1	11.68	612.989 > 568.967	110441		10.768	13.76	NO	107.7
50	MPFDOA	INT STD	11.68	614.989 > 569.92	112969		10.073		na	100.7
51	PFTrDA	72629-94-8	12.09	663.053 > 618.969	108481		10.608	12.09	NO	106.1
52	PFTA	376-06-7	12.44	713.053 > 668.976	96942		11.152	9.66	NO	111.5
53	M2PFTEDA	INT STD	12.44	715.053 > 669.945	117320		9.281		na	92.8

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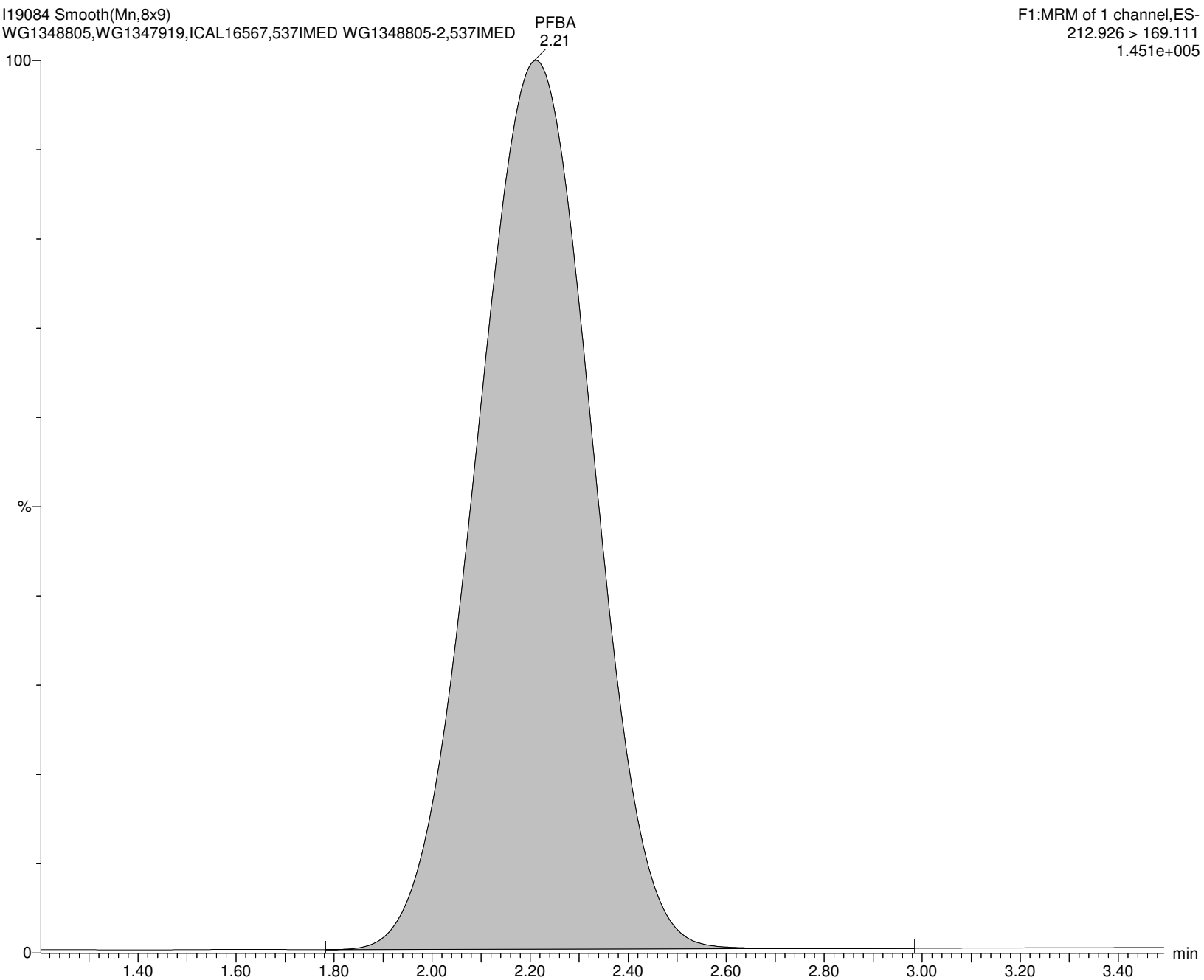

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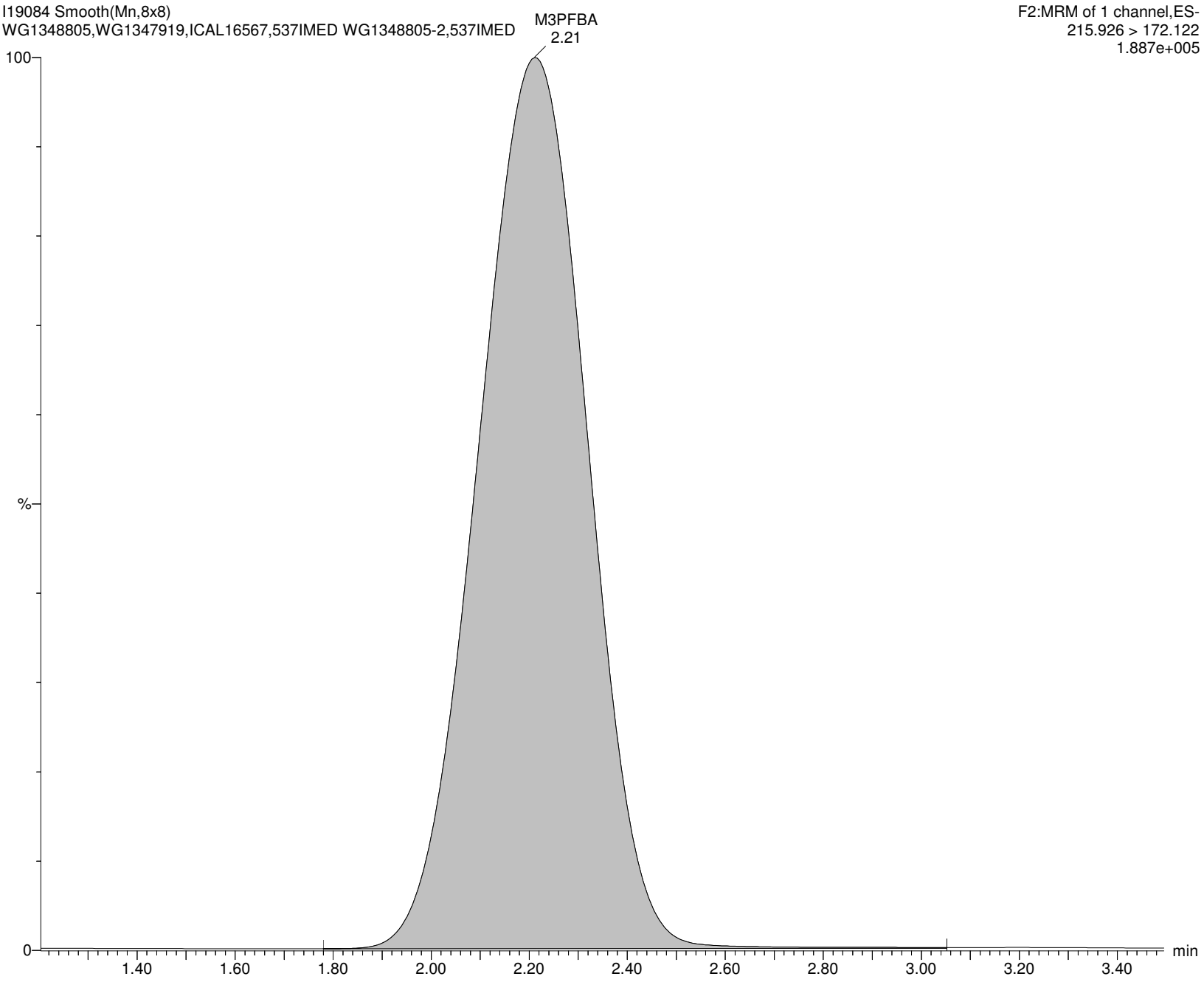

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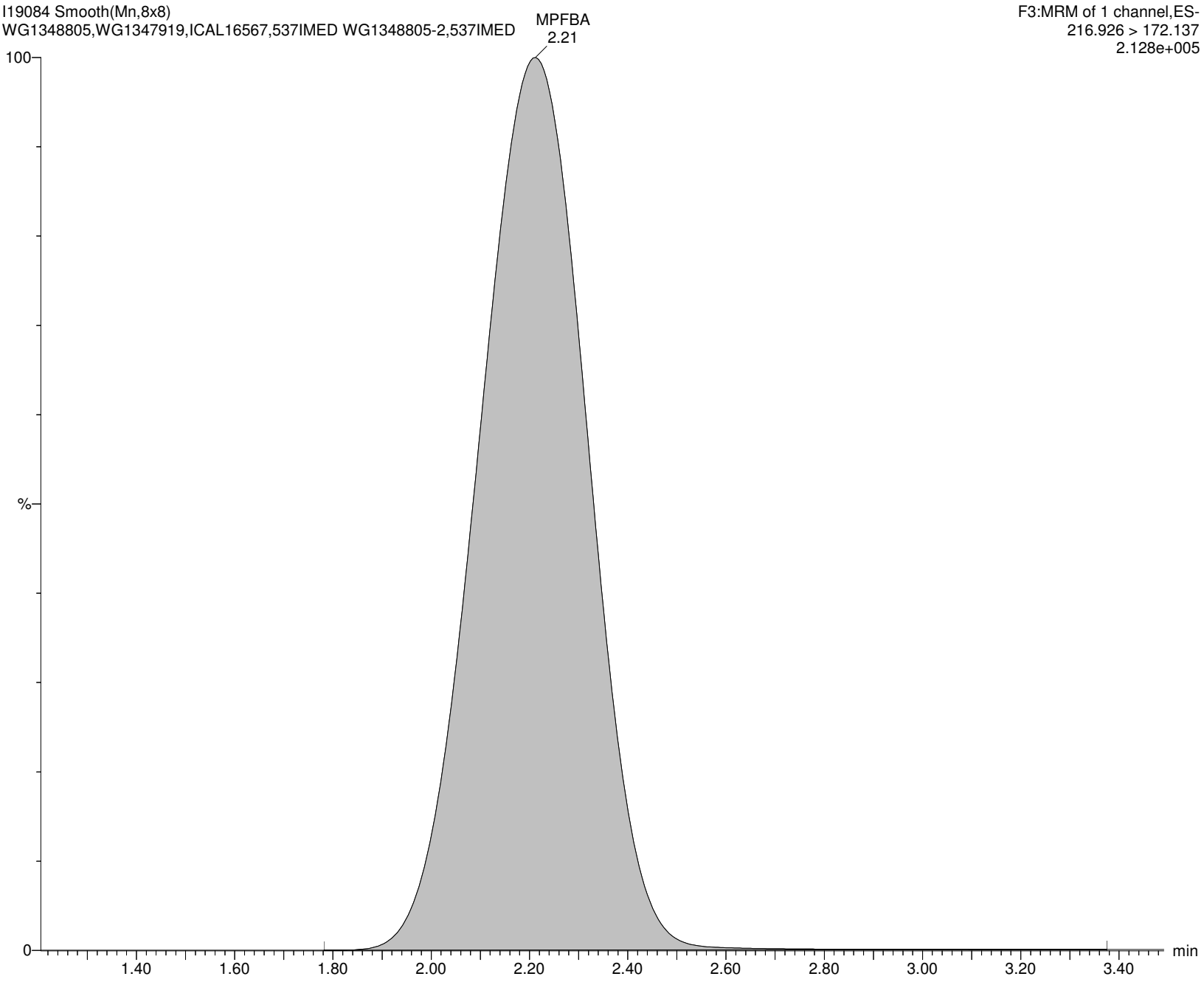

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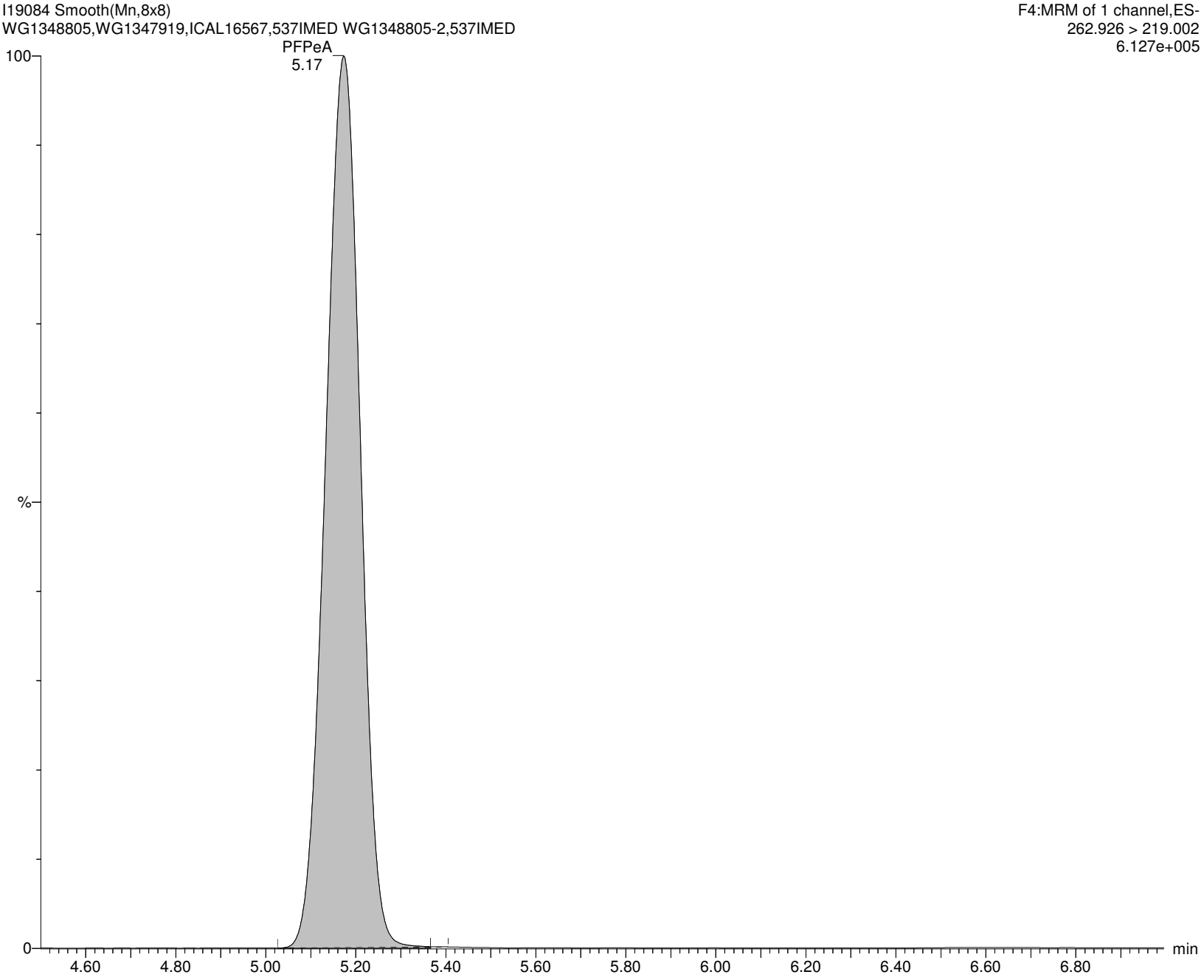

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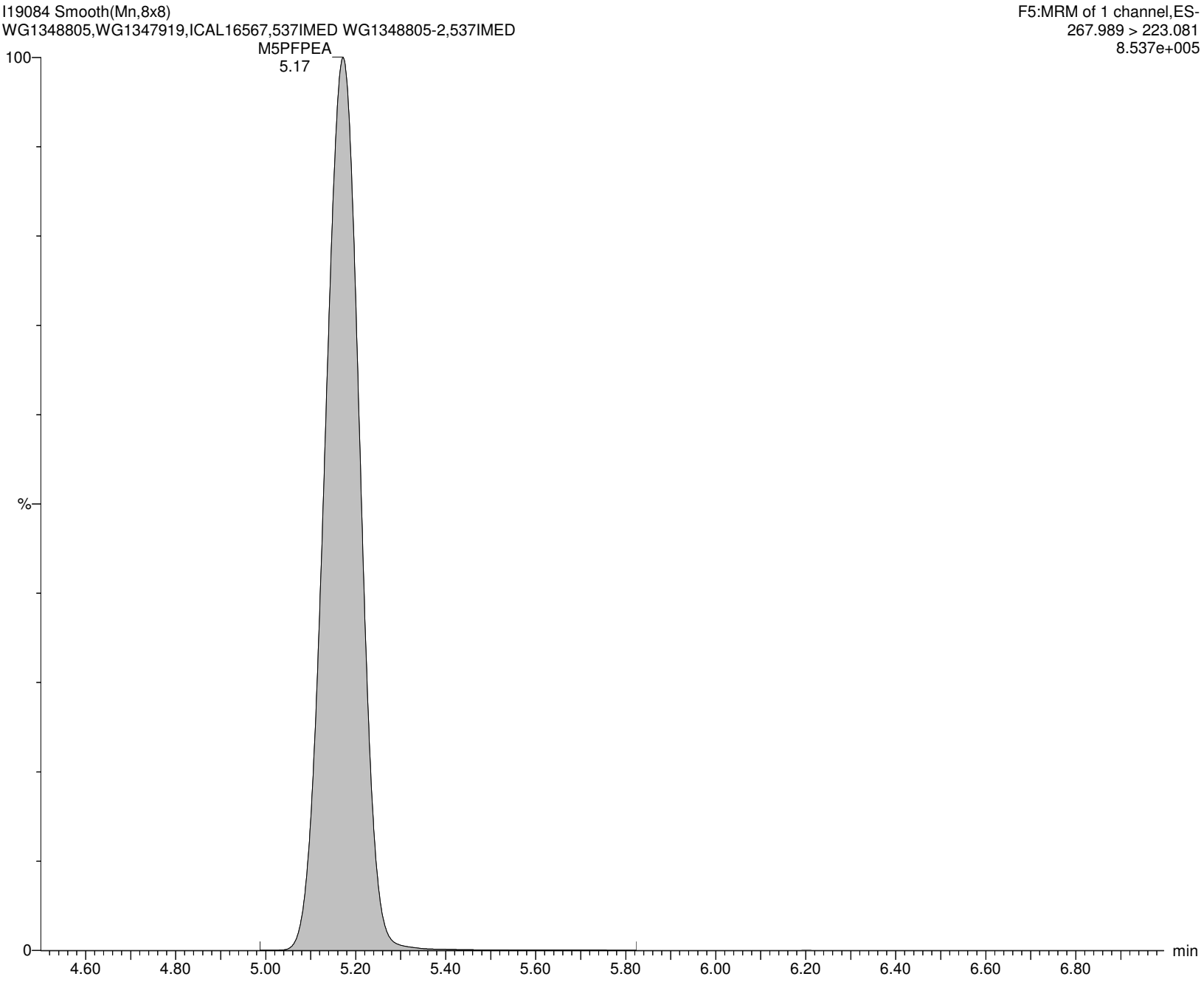

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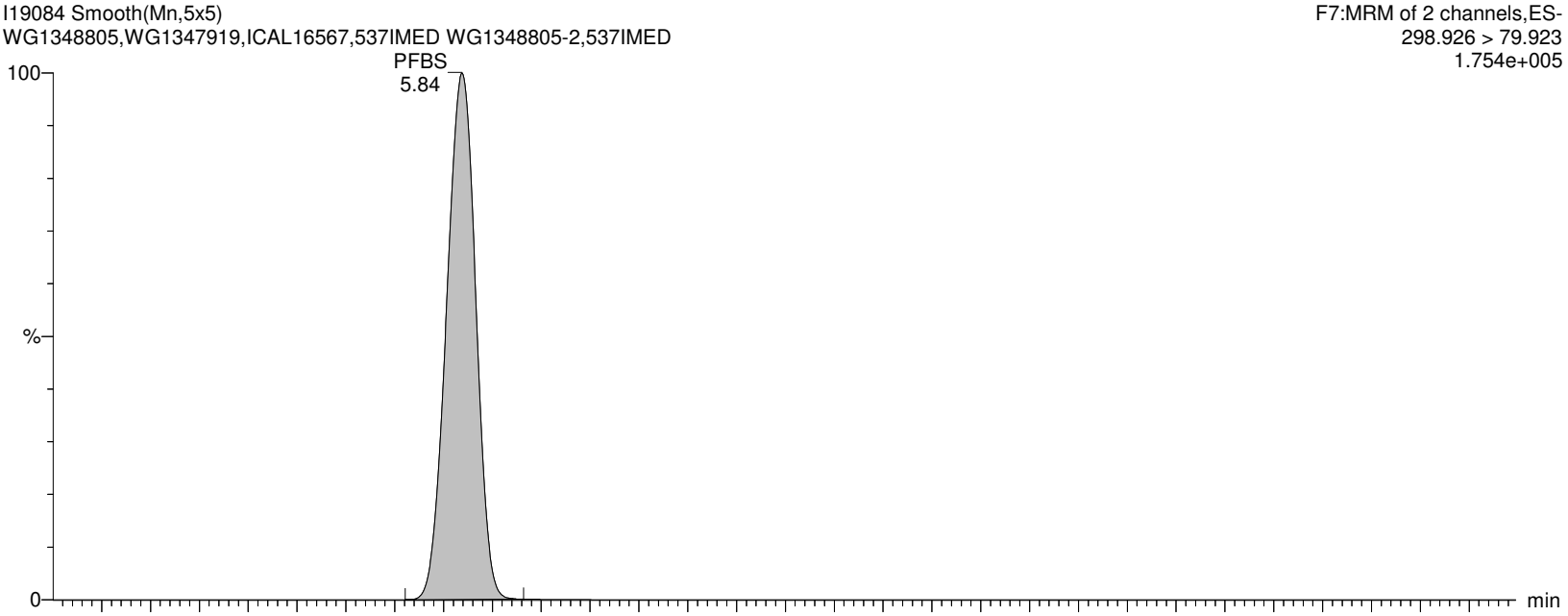
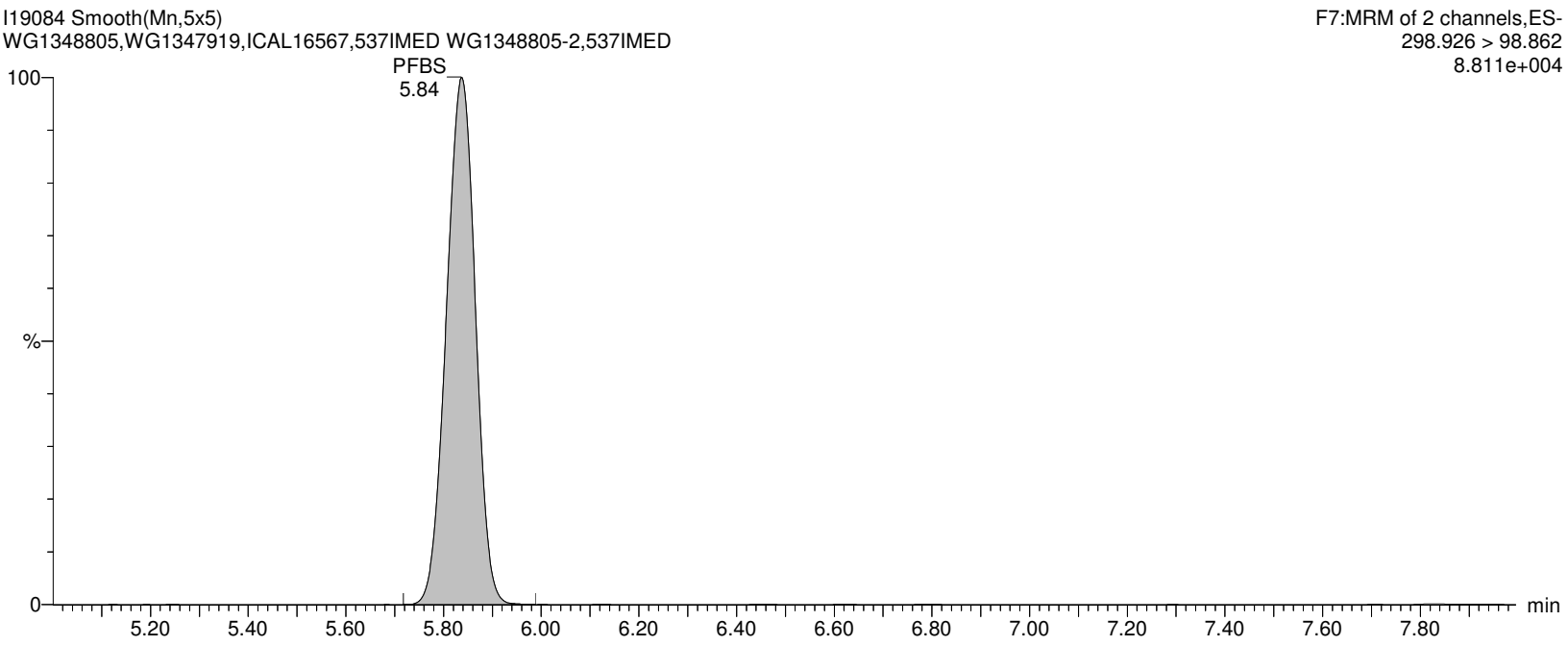
PFBS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 10, 2020 20:06:08 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:08:36 Eastern Daylight Time

Name: I19084
ID: WG1348805-2,537IMED
Date: 09-Mar-2020
Time: 17:03:03
Description: WG1348805,WG1347919,ICAL16567,537IMED
User: LCMS01:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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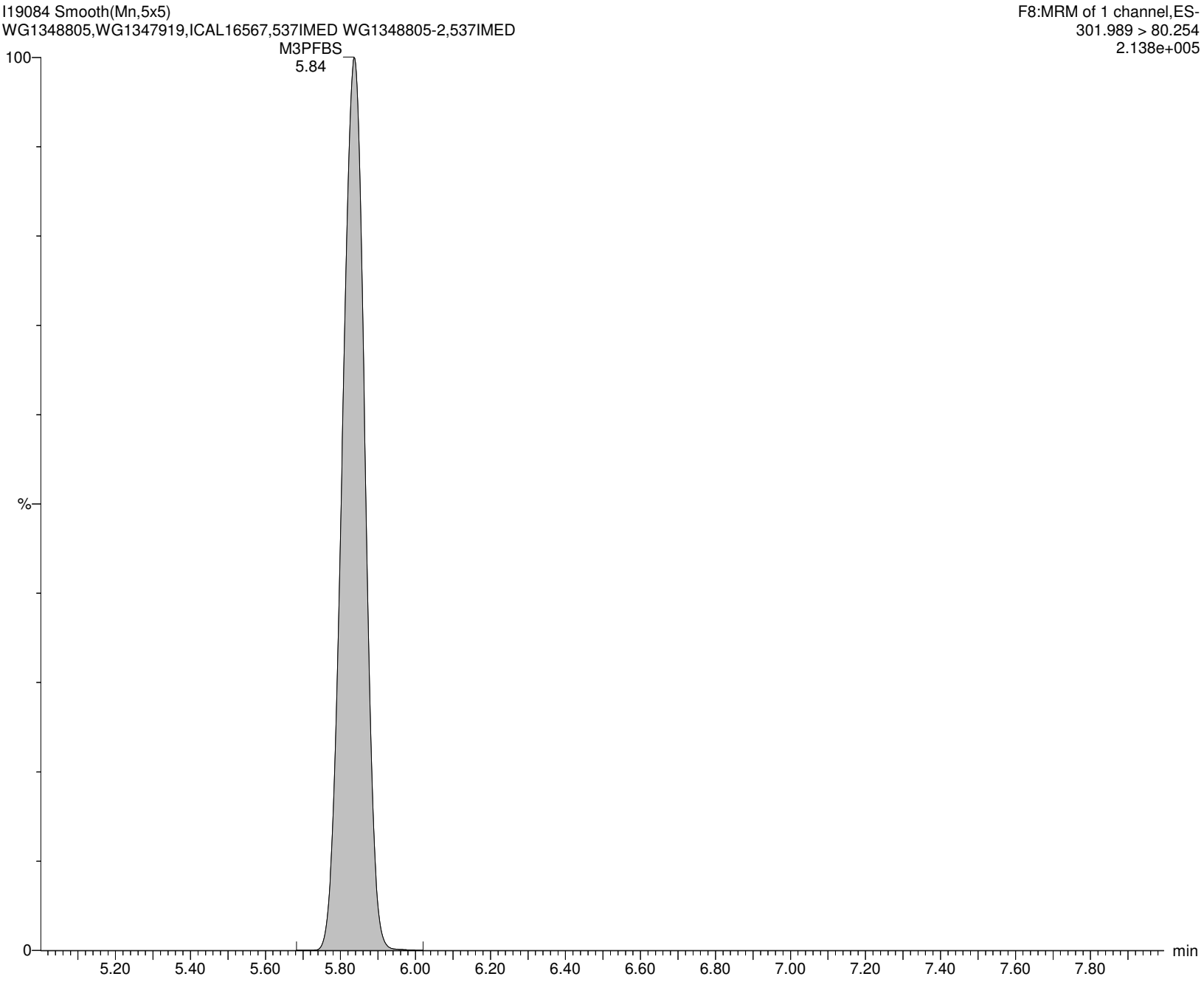
M3PFBS



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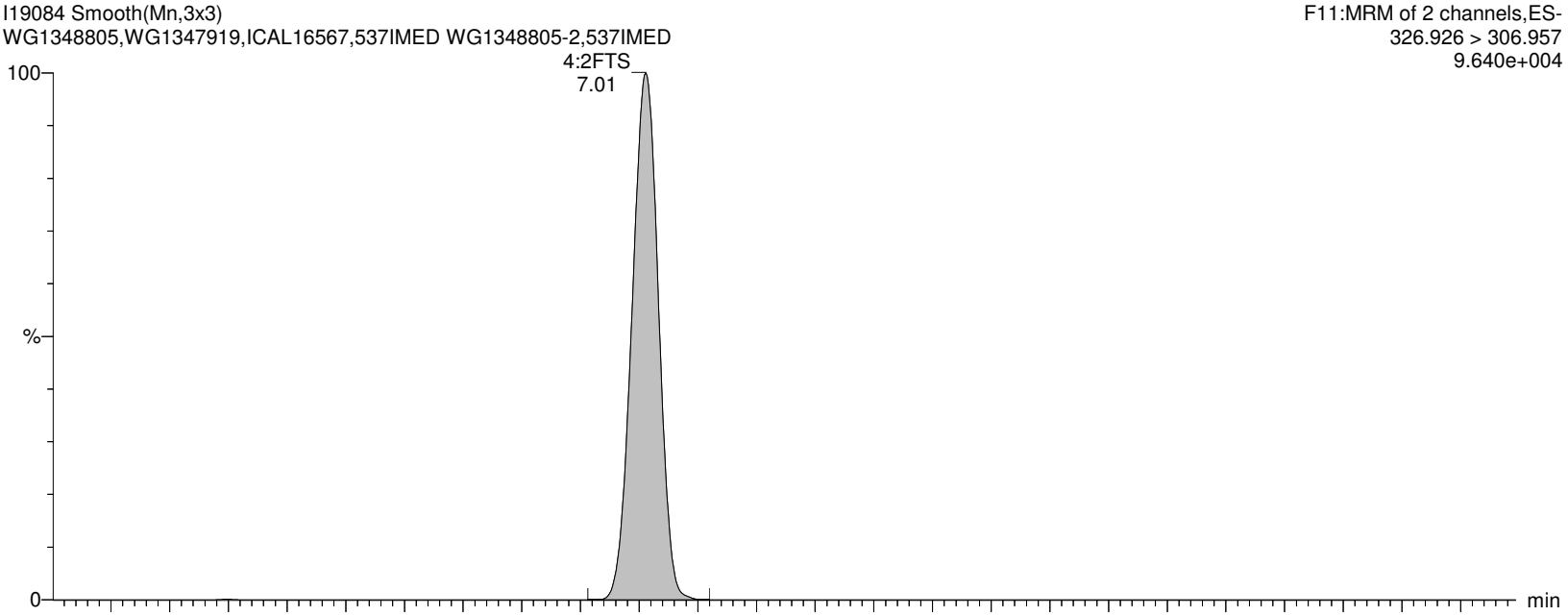

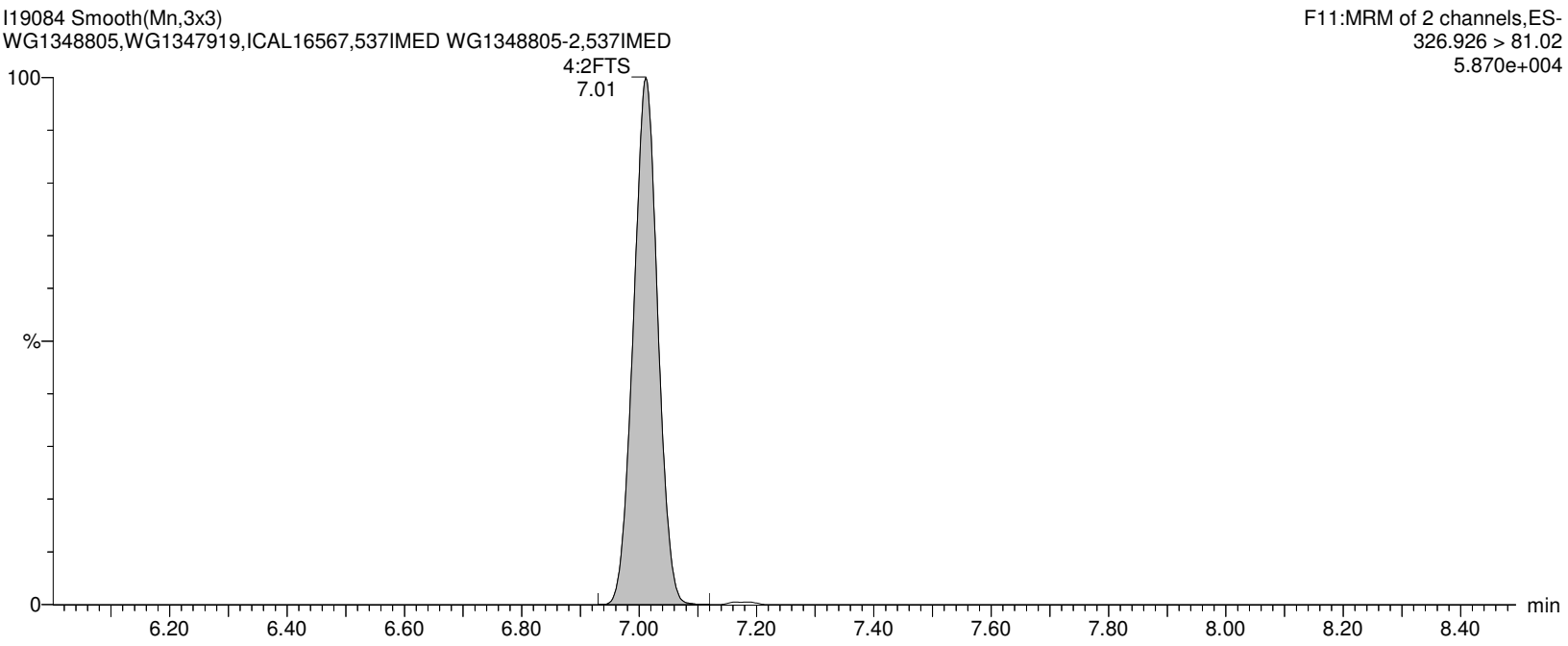

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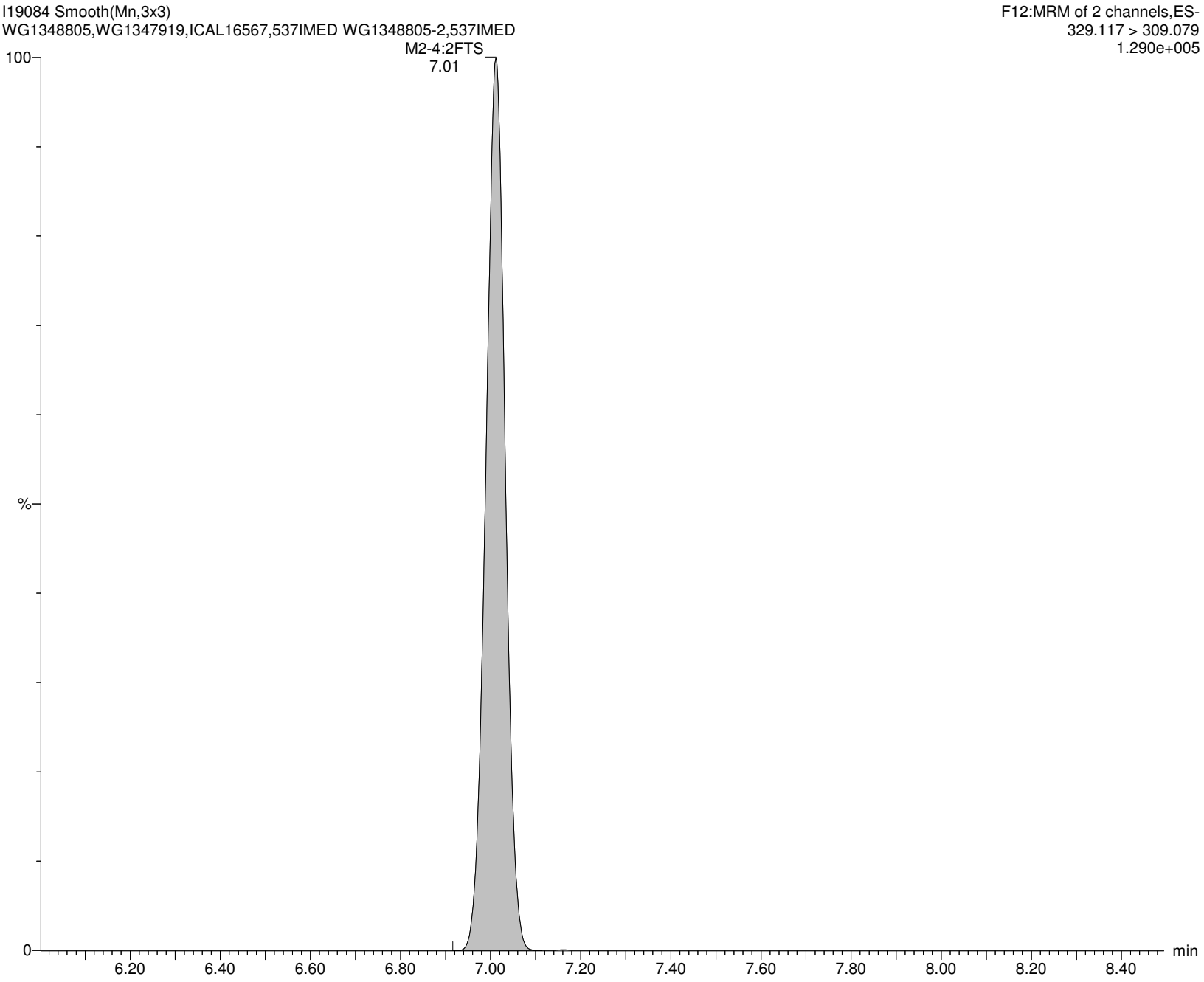

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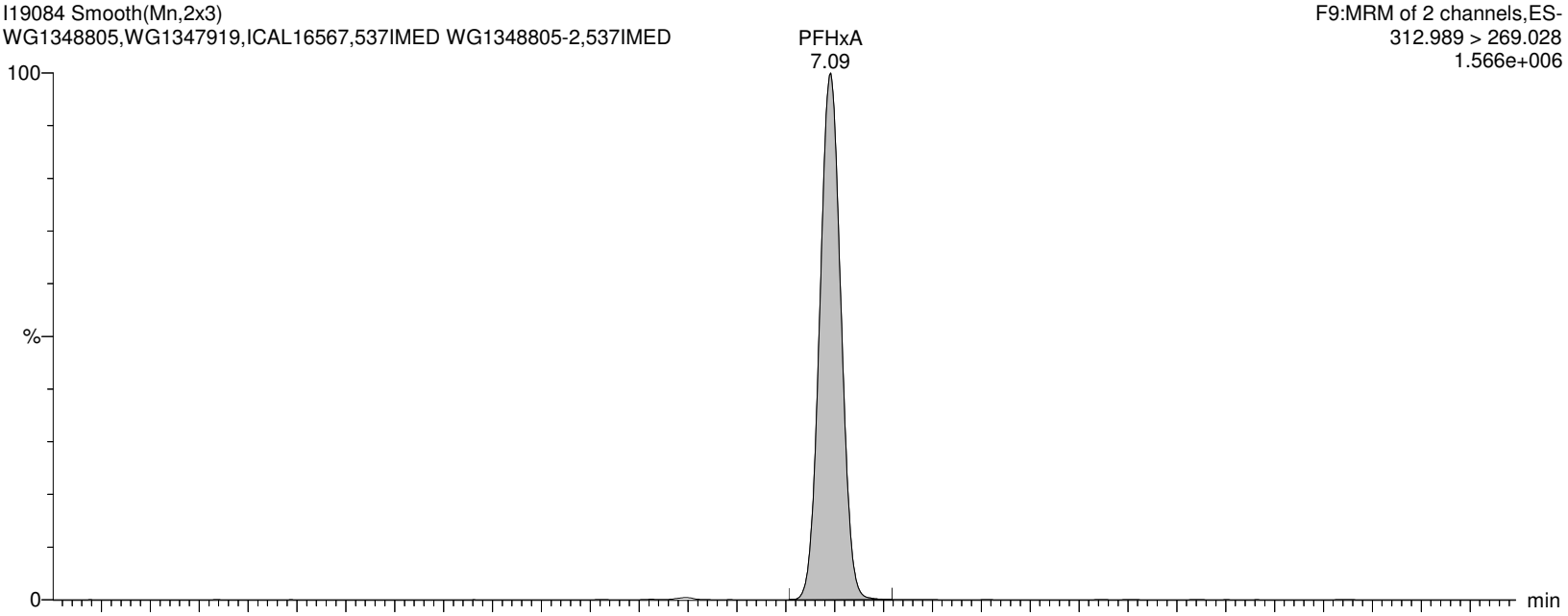

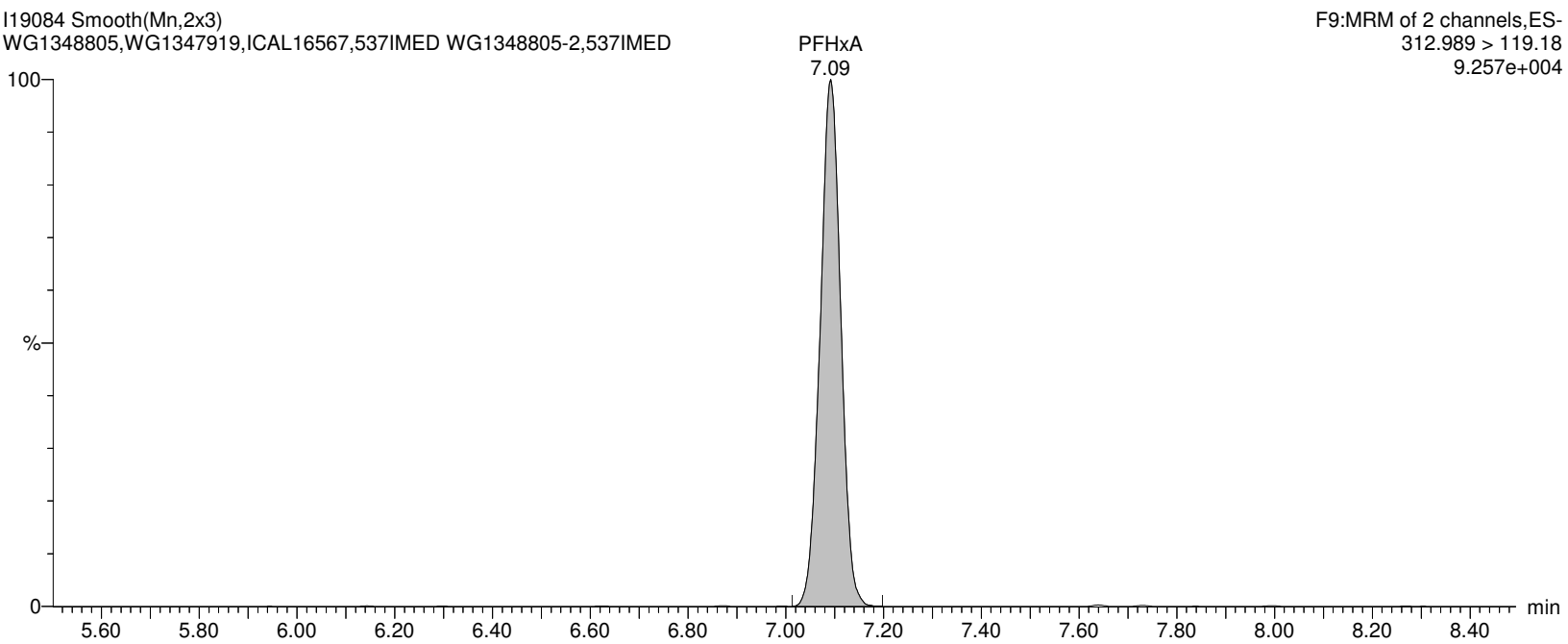

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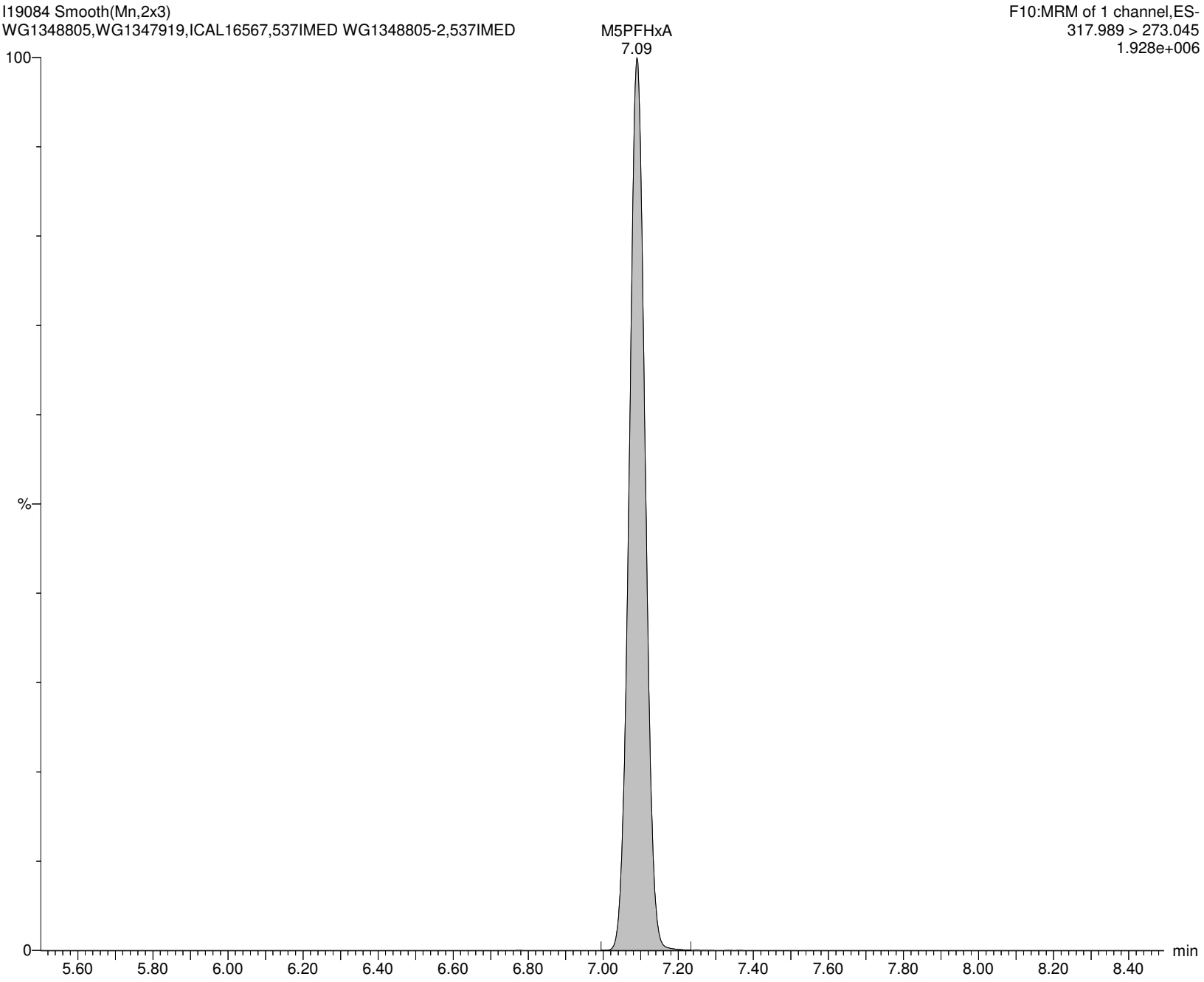

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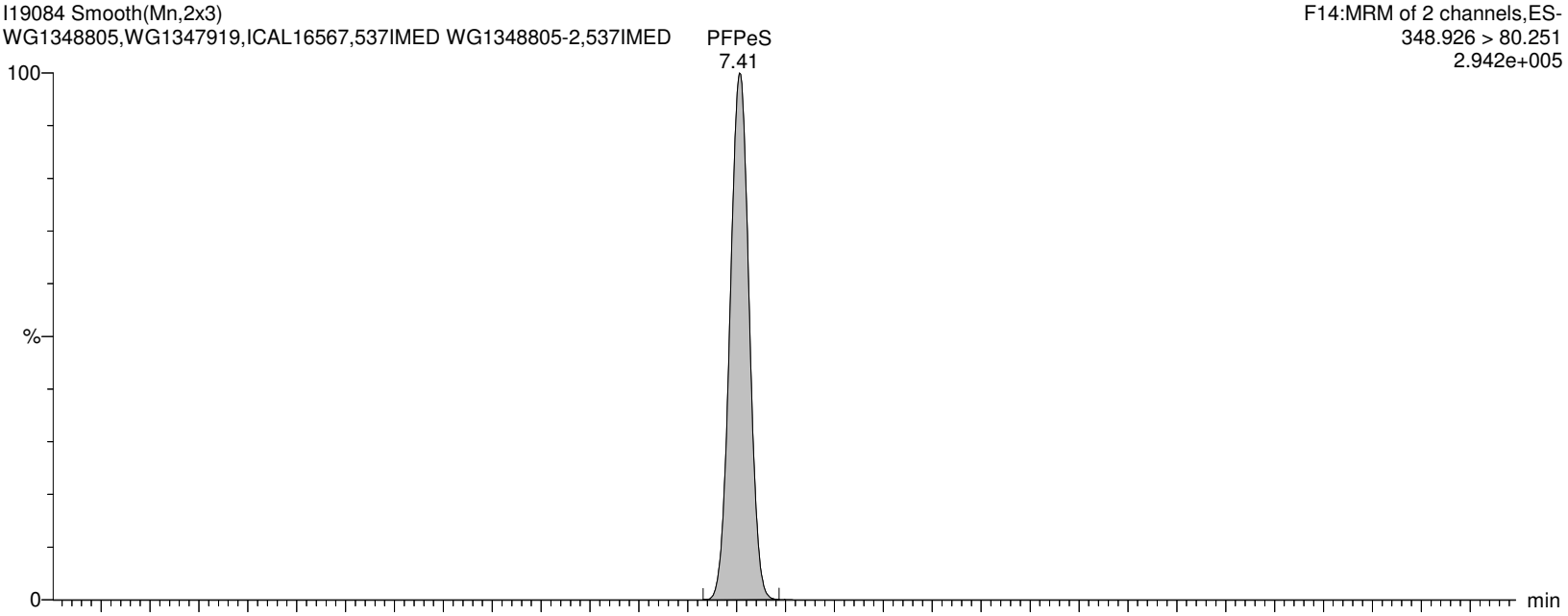

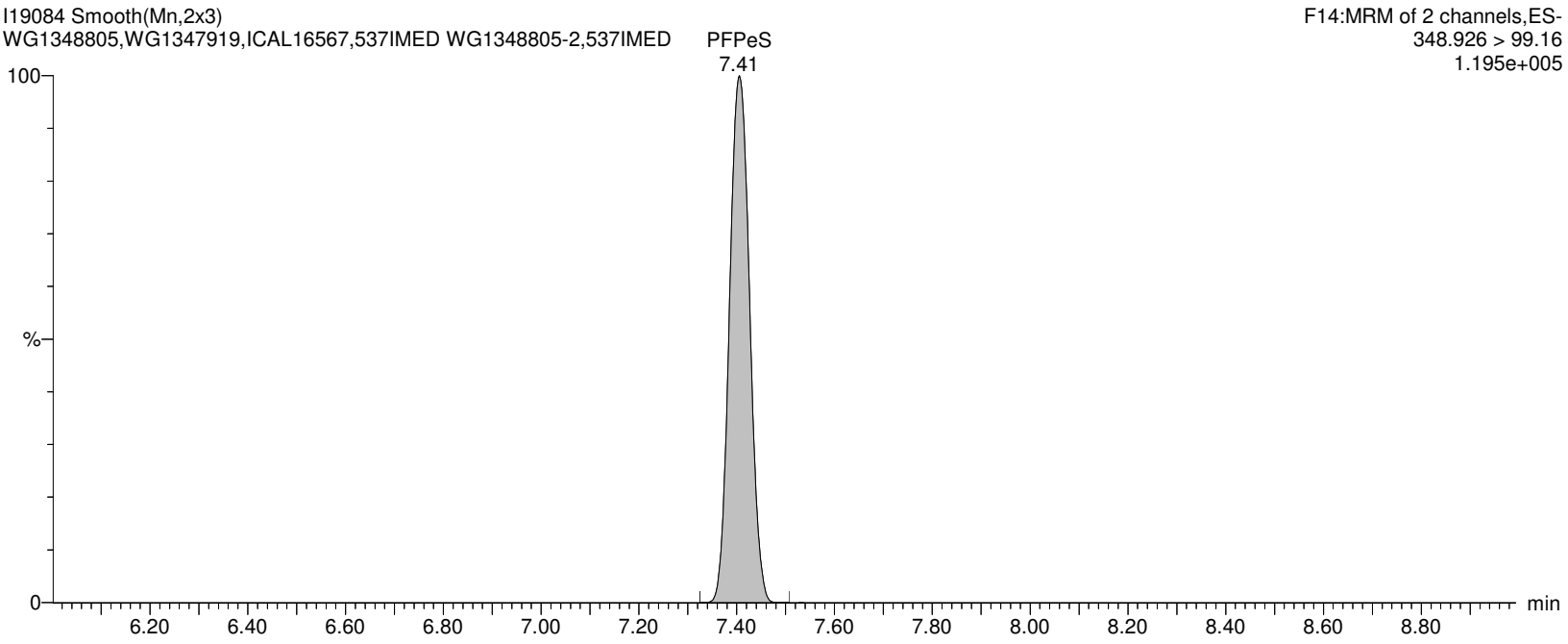

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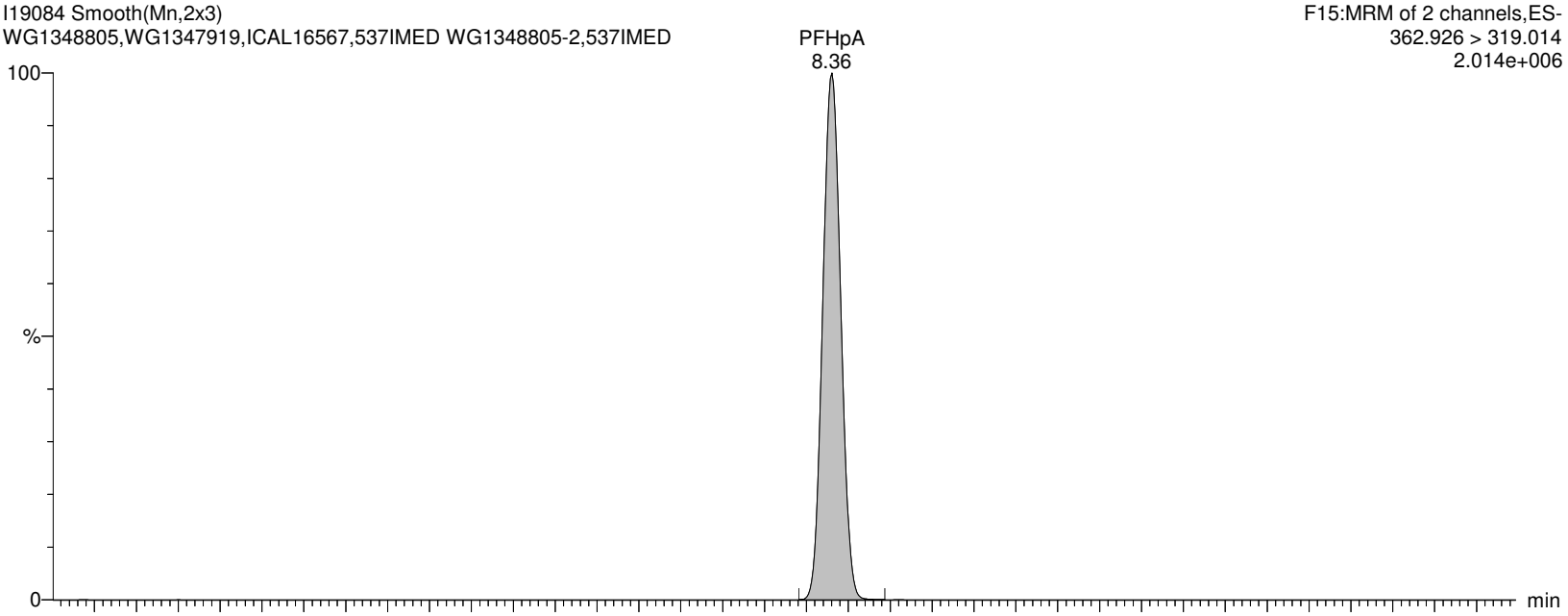

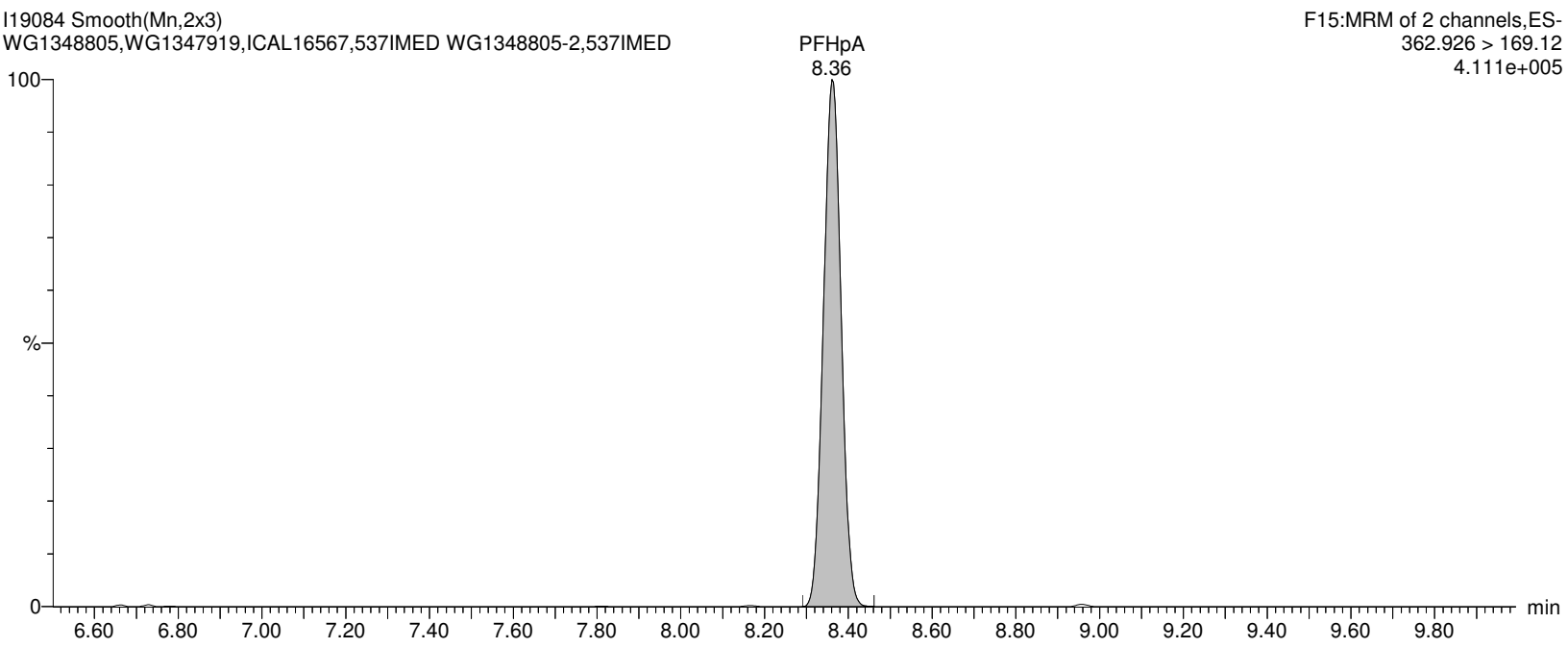

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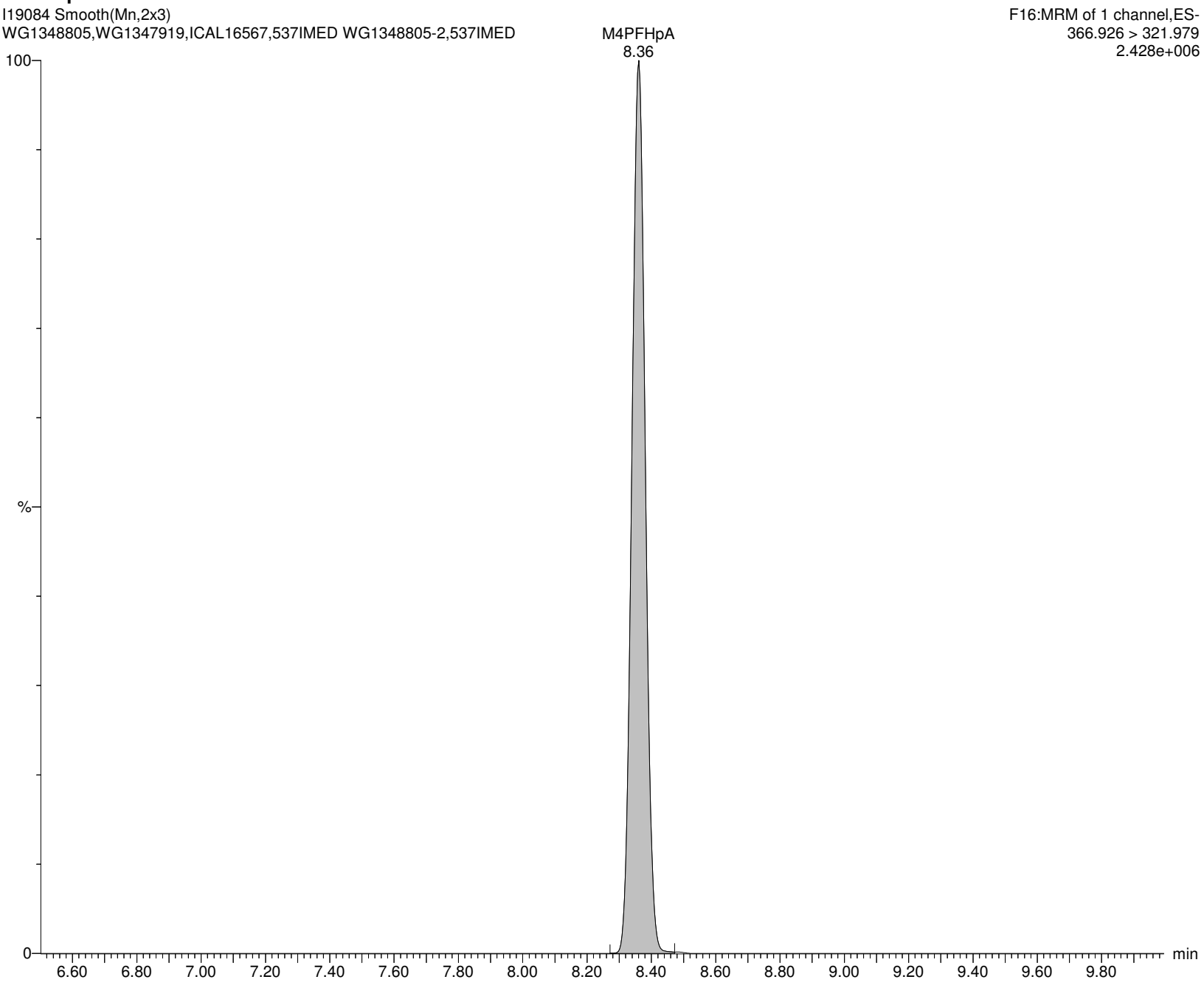

all concentration units in (ng/mL)

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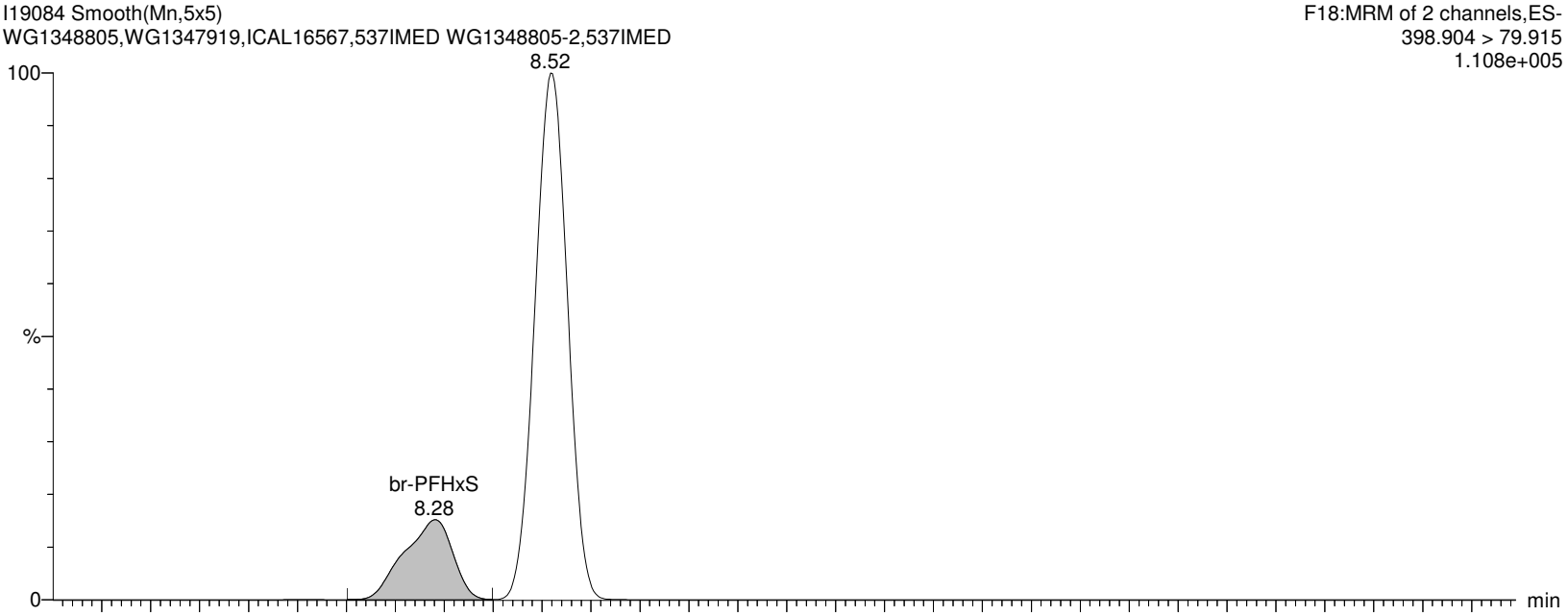

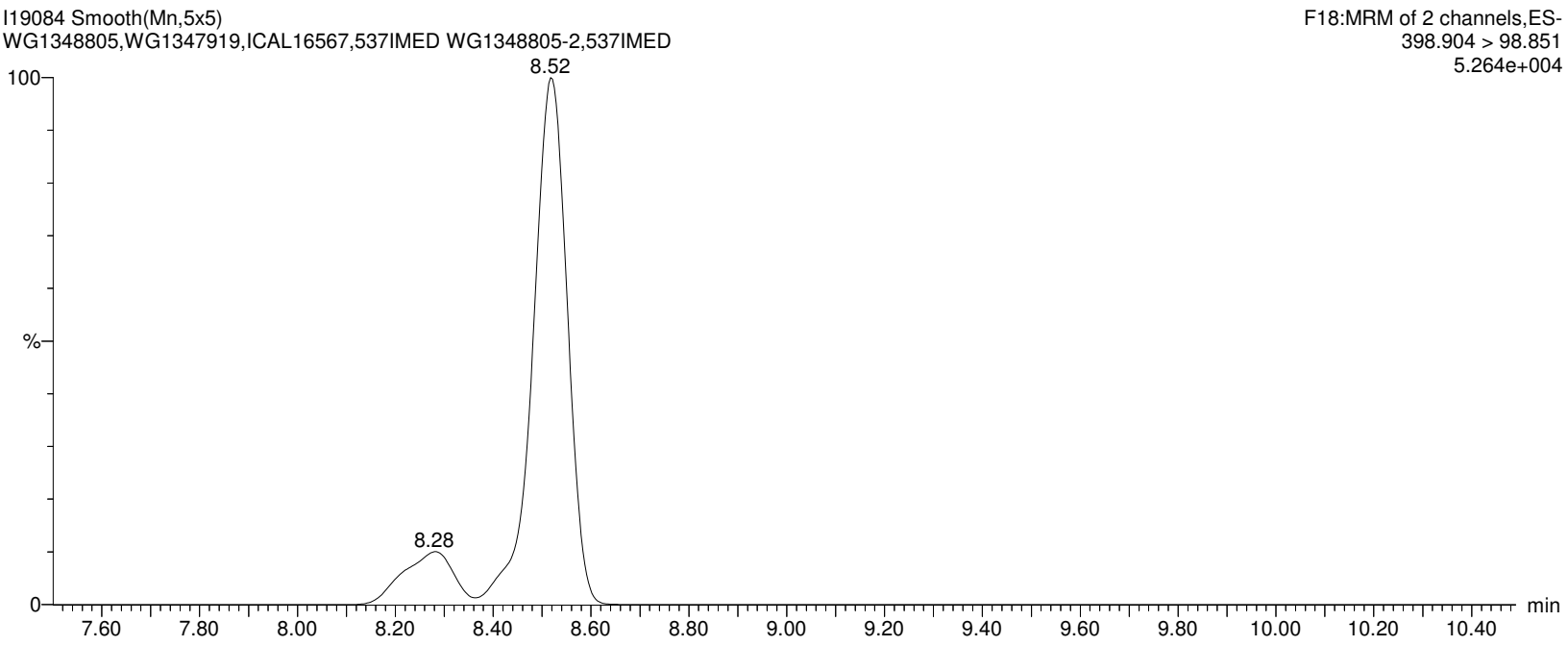

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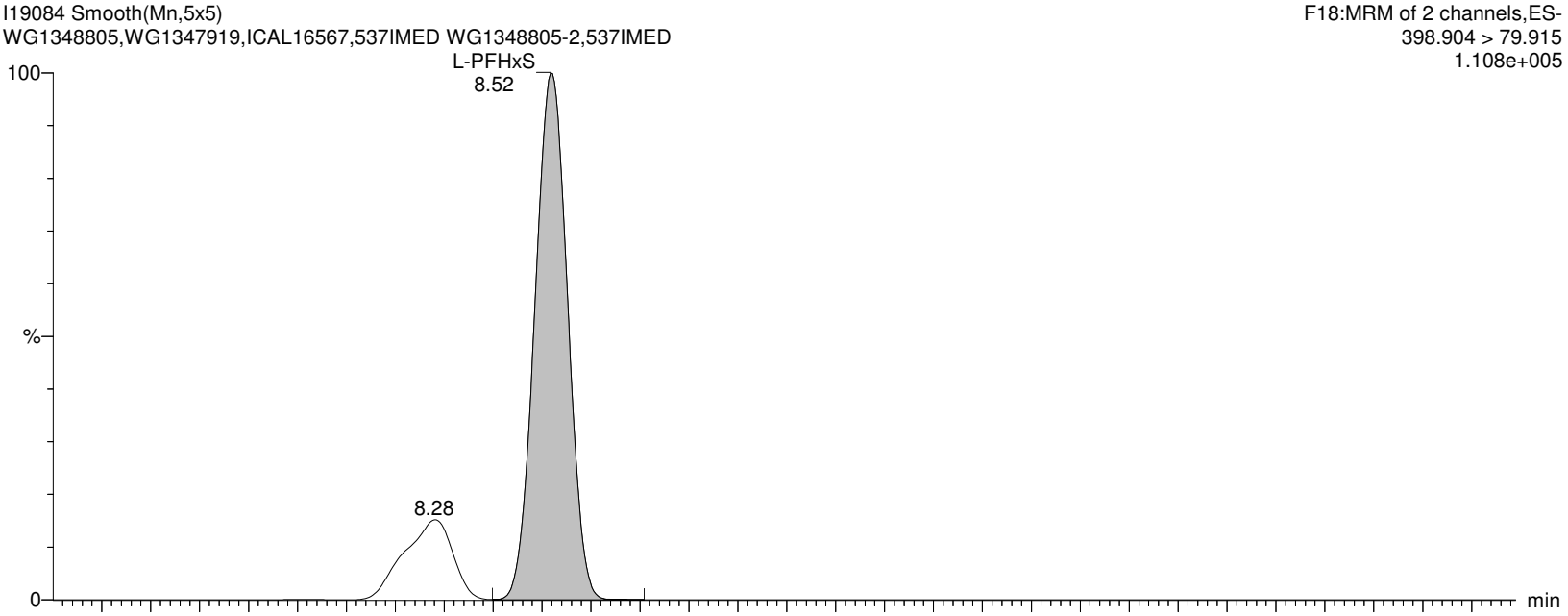

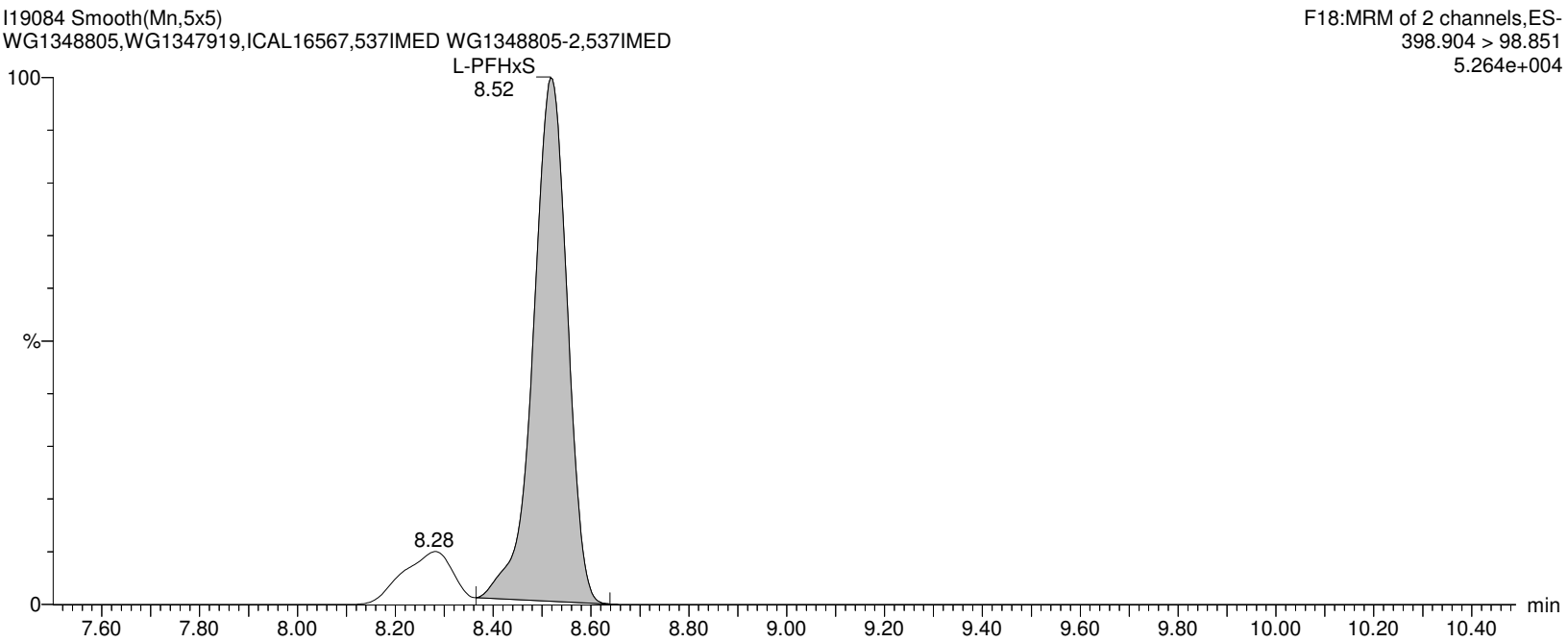

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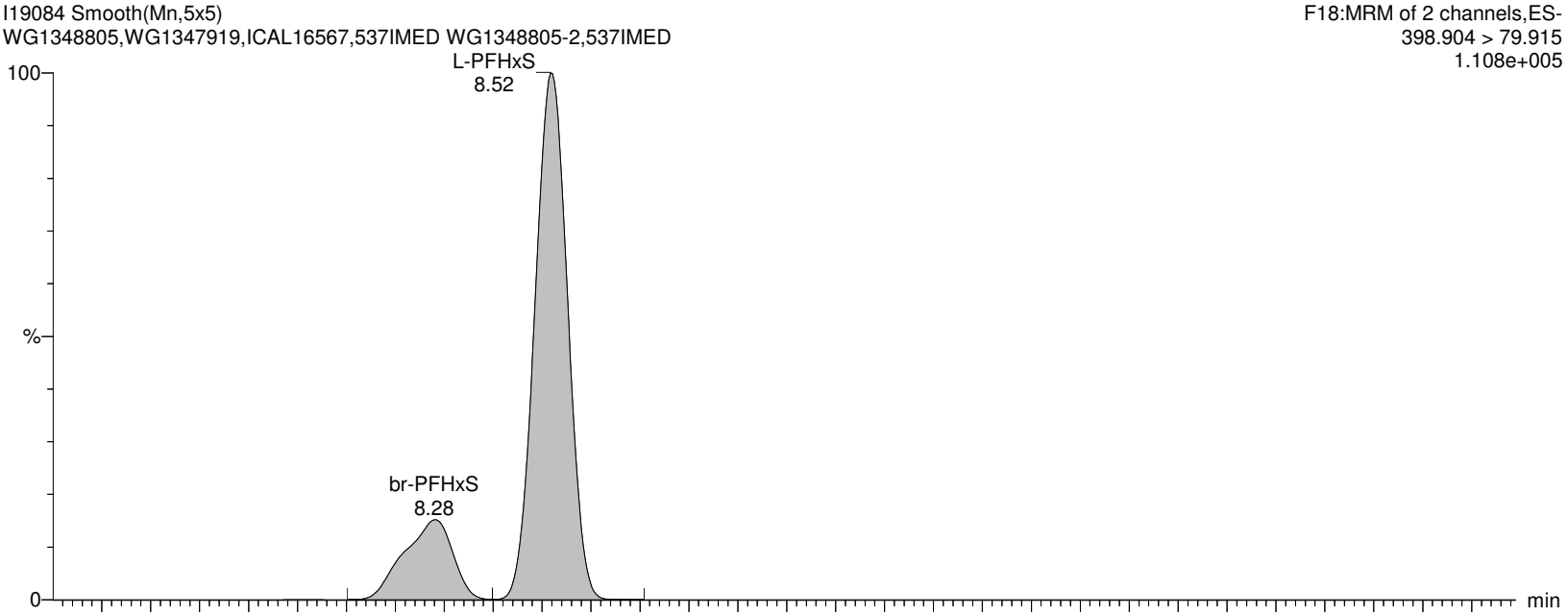

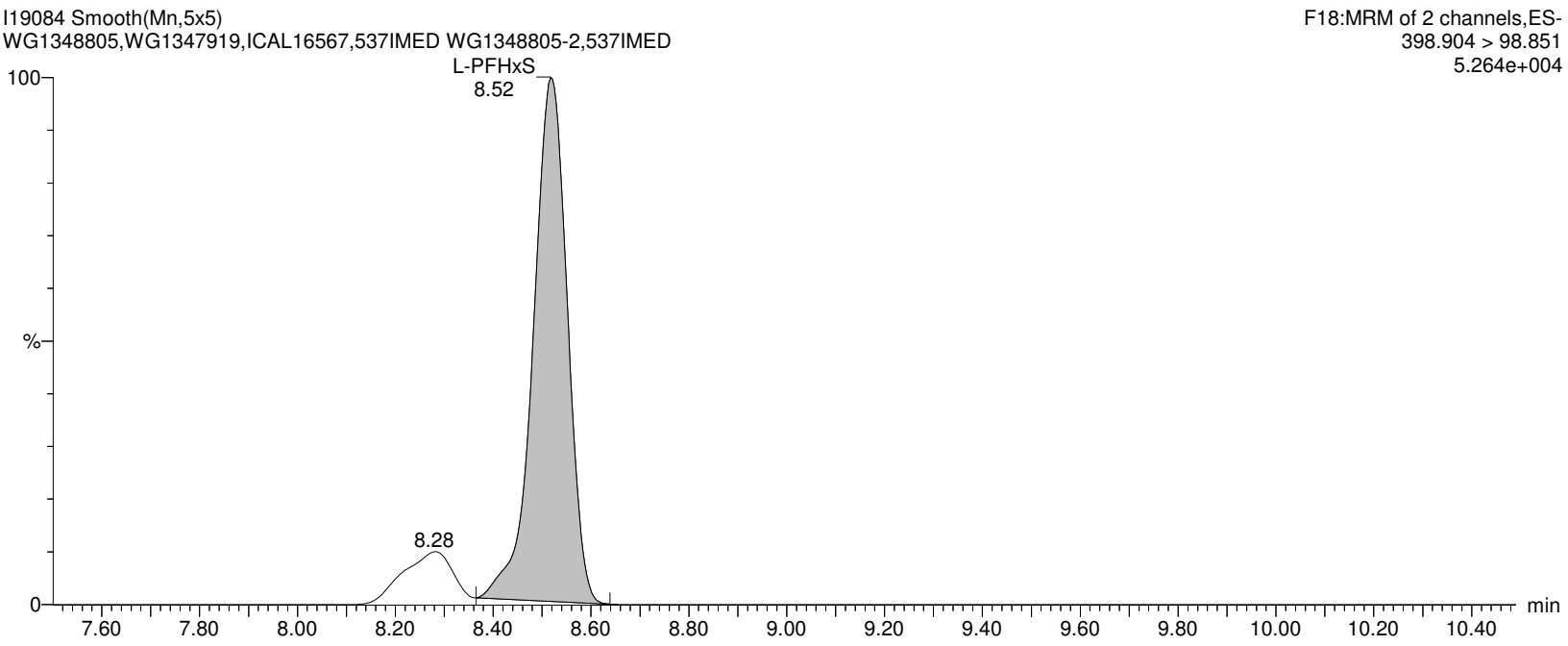

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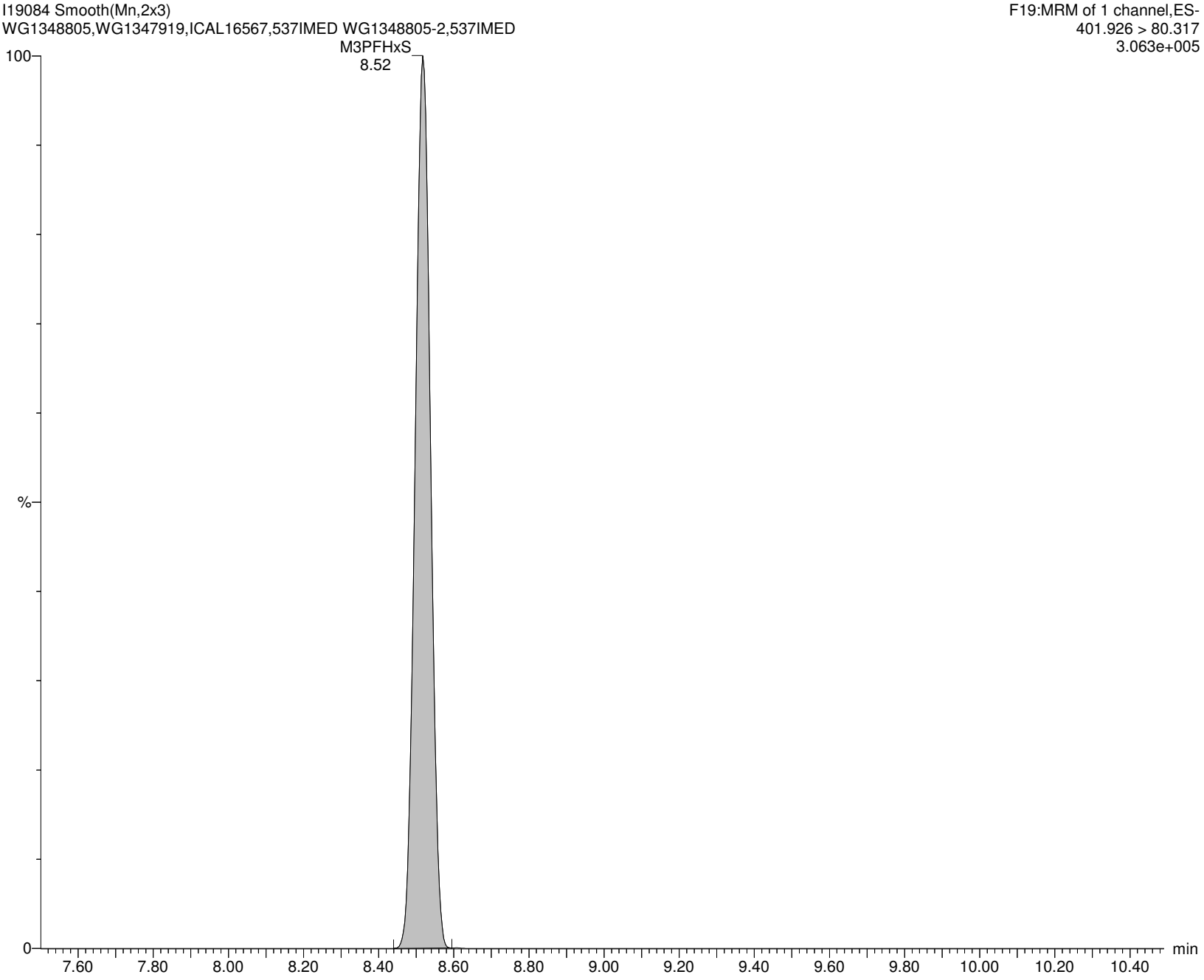

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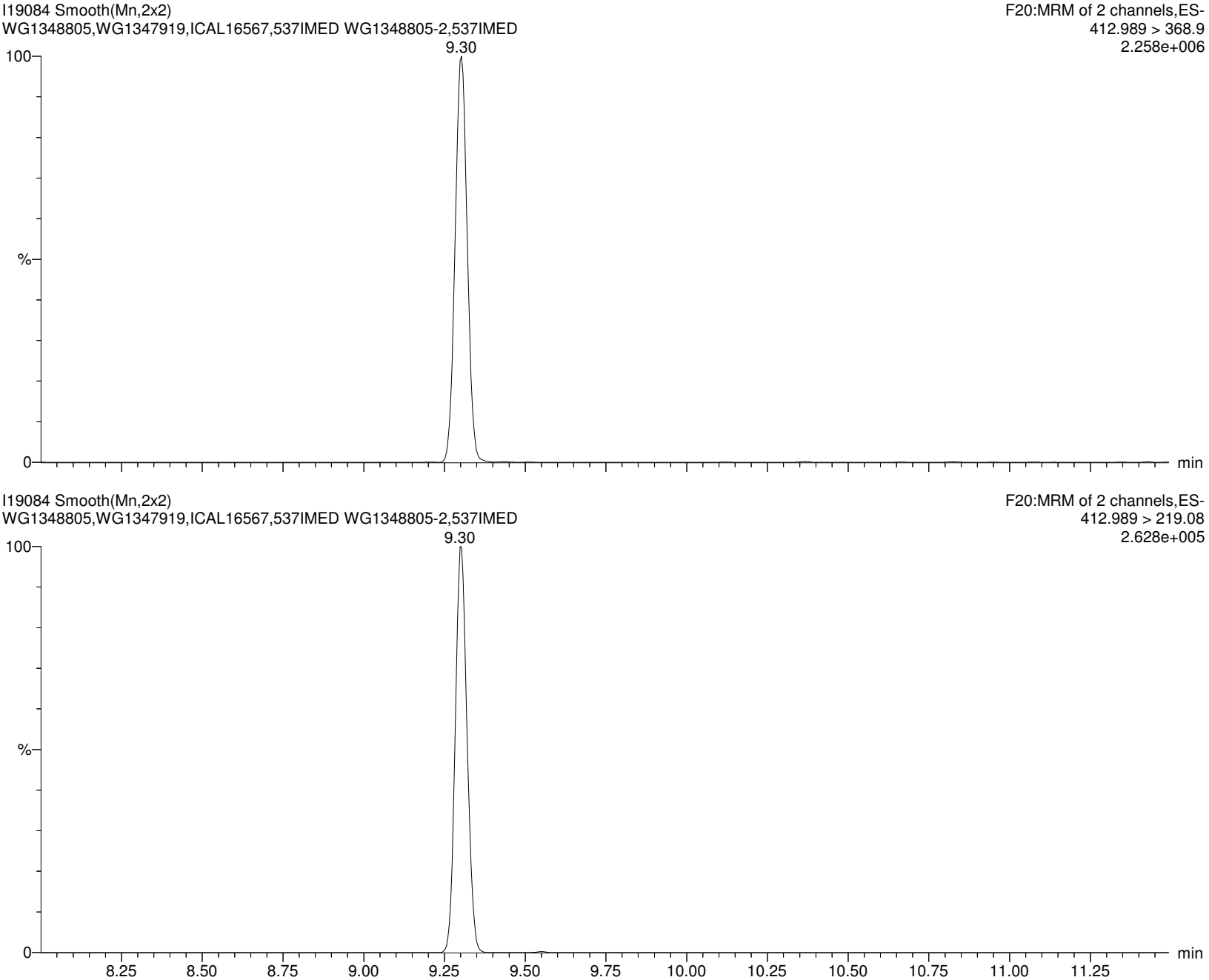

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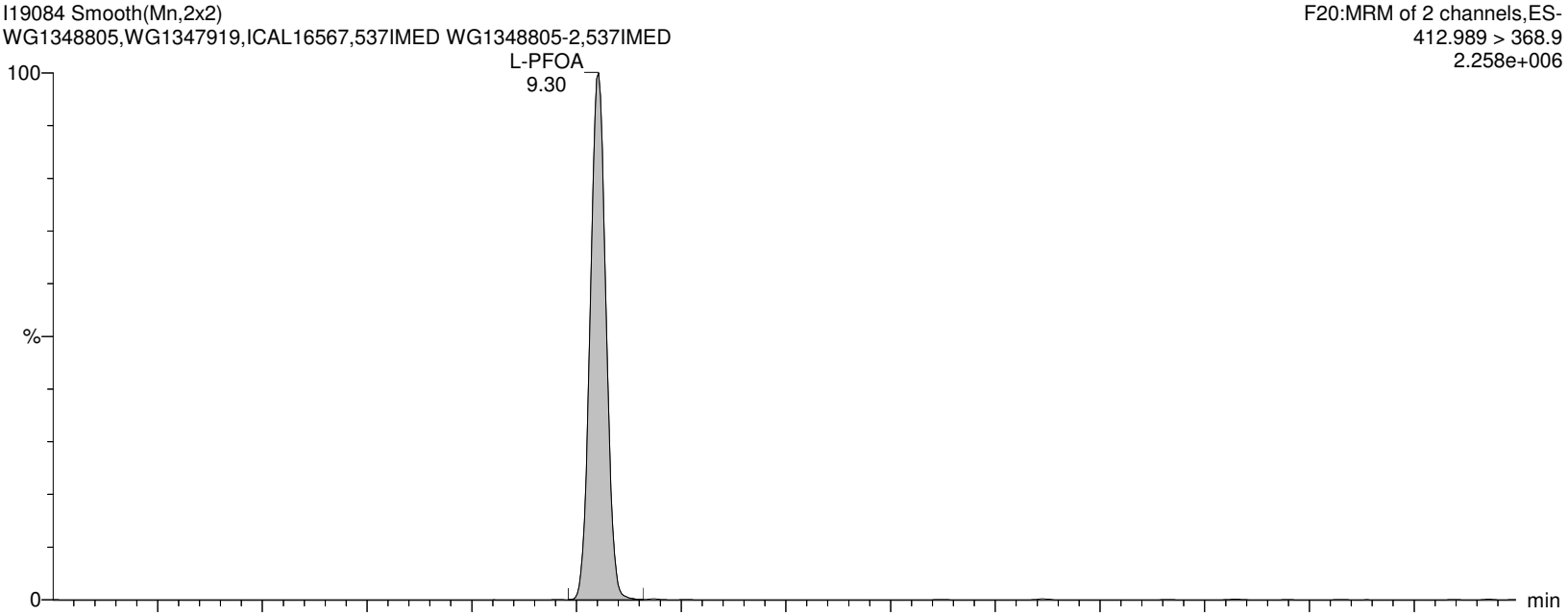

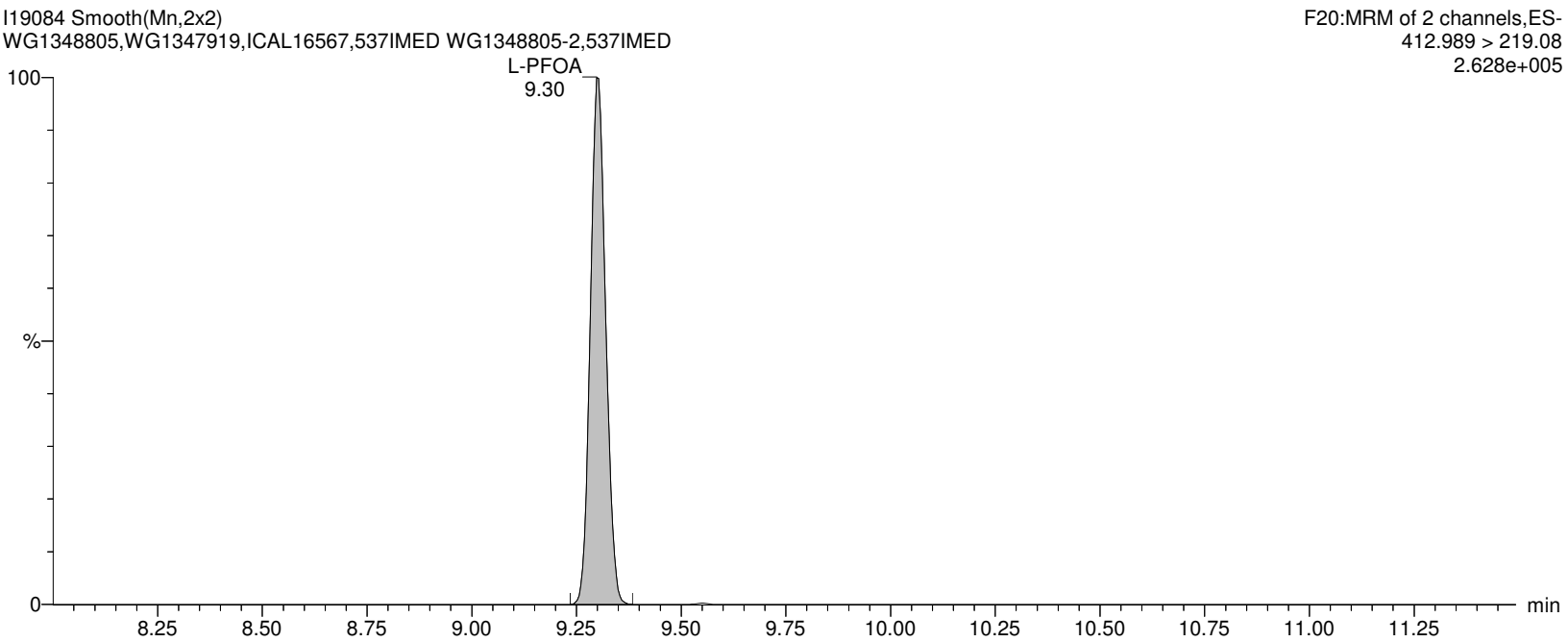

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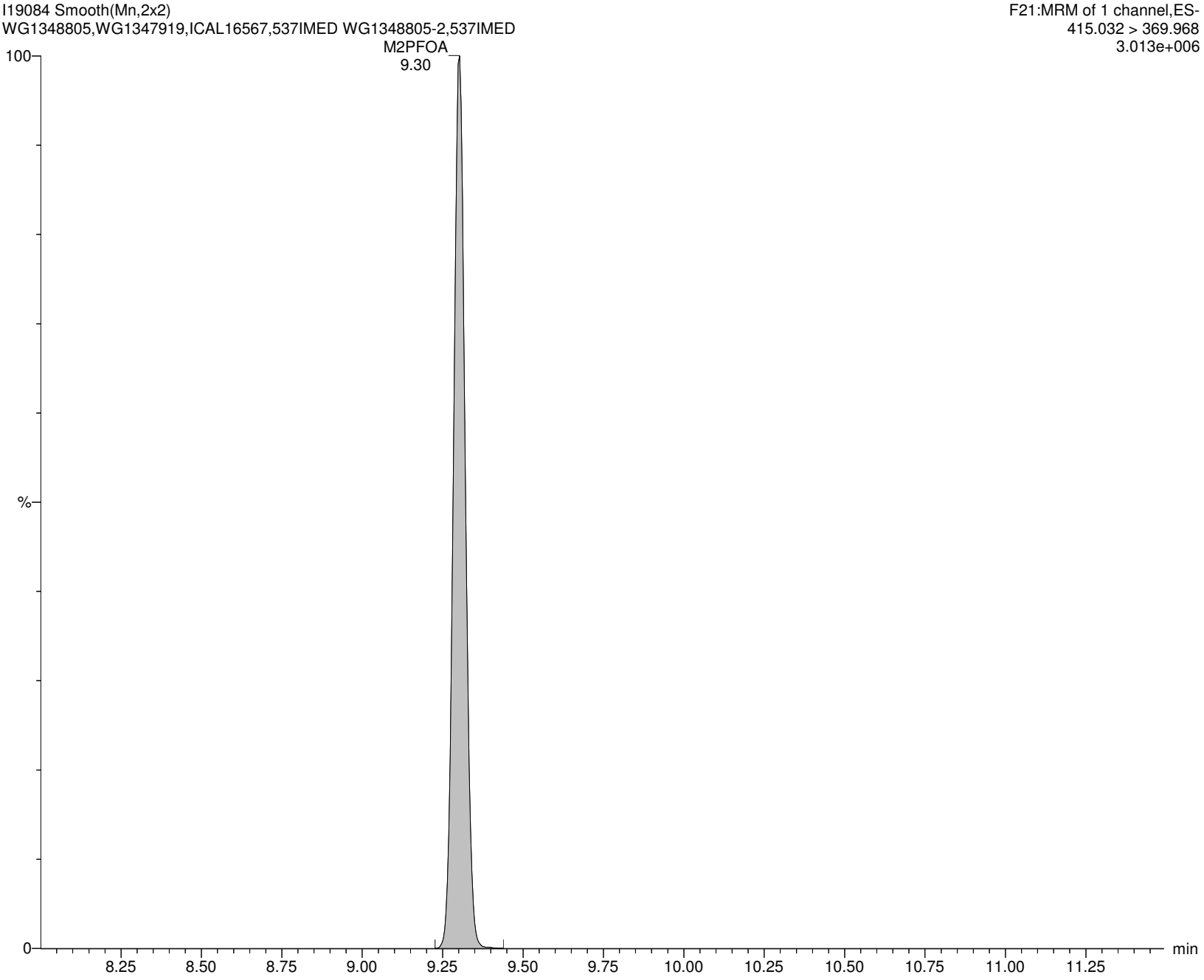
M2PFOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 10, 2020 20:06:08 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:08:36 Eastern Daylight Time

Name: I19084
ID: WG1348805-2,537IMED
Date: 09-Mar-2020
Time: 17:03:03
Description: WG1348805,WG1347919,ICAL16567,537IMED
User: LCMS01:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
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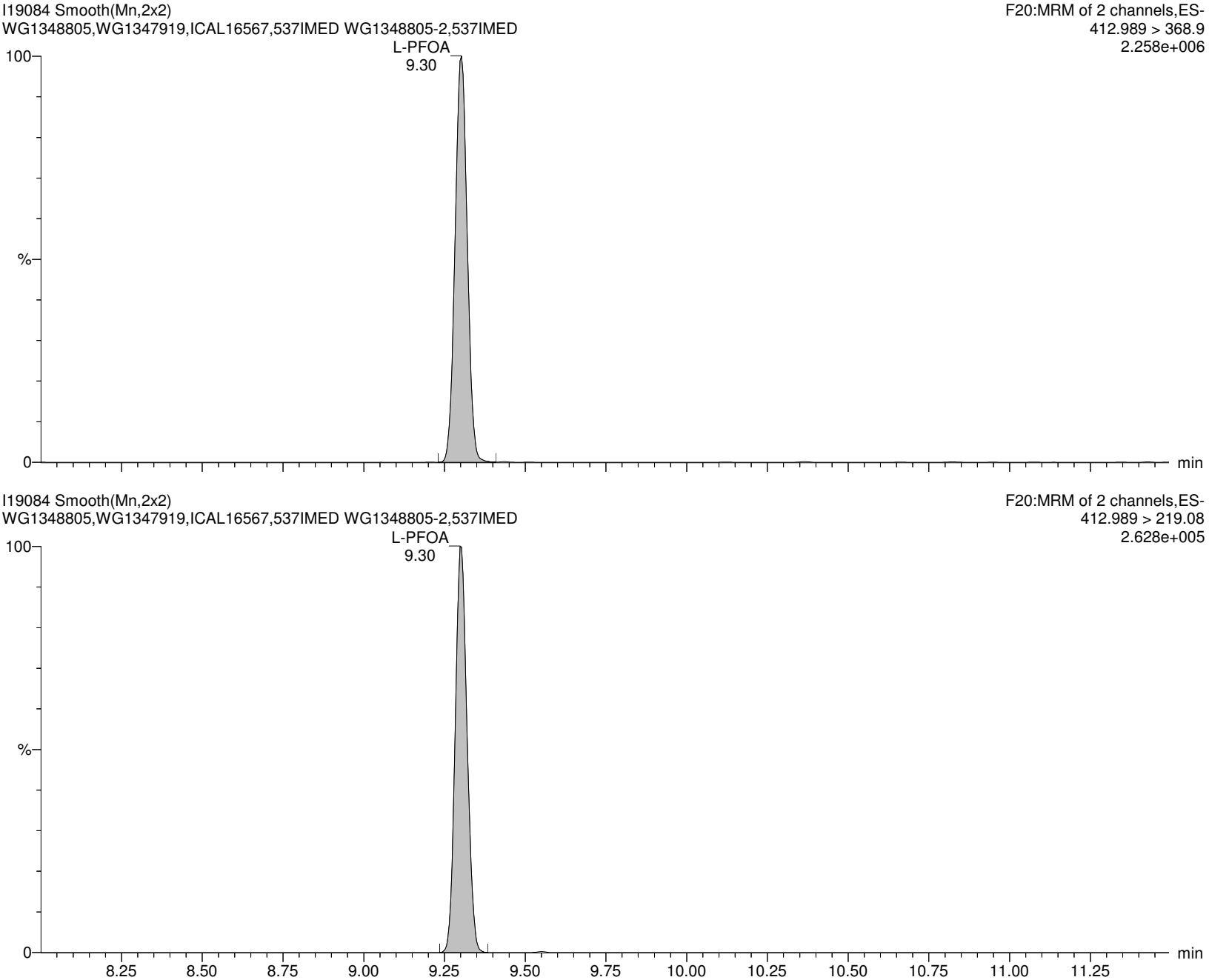

all concentration units in (ng/mL)

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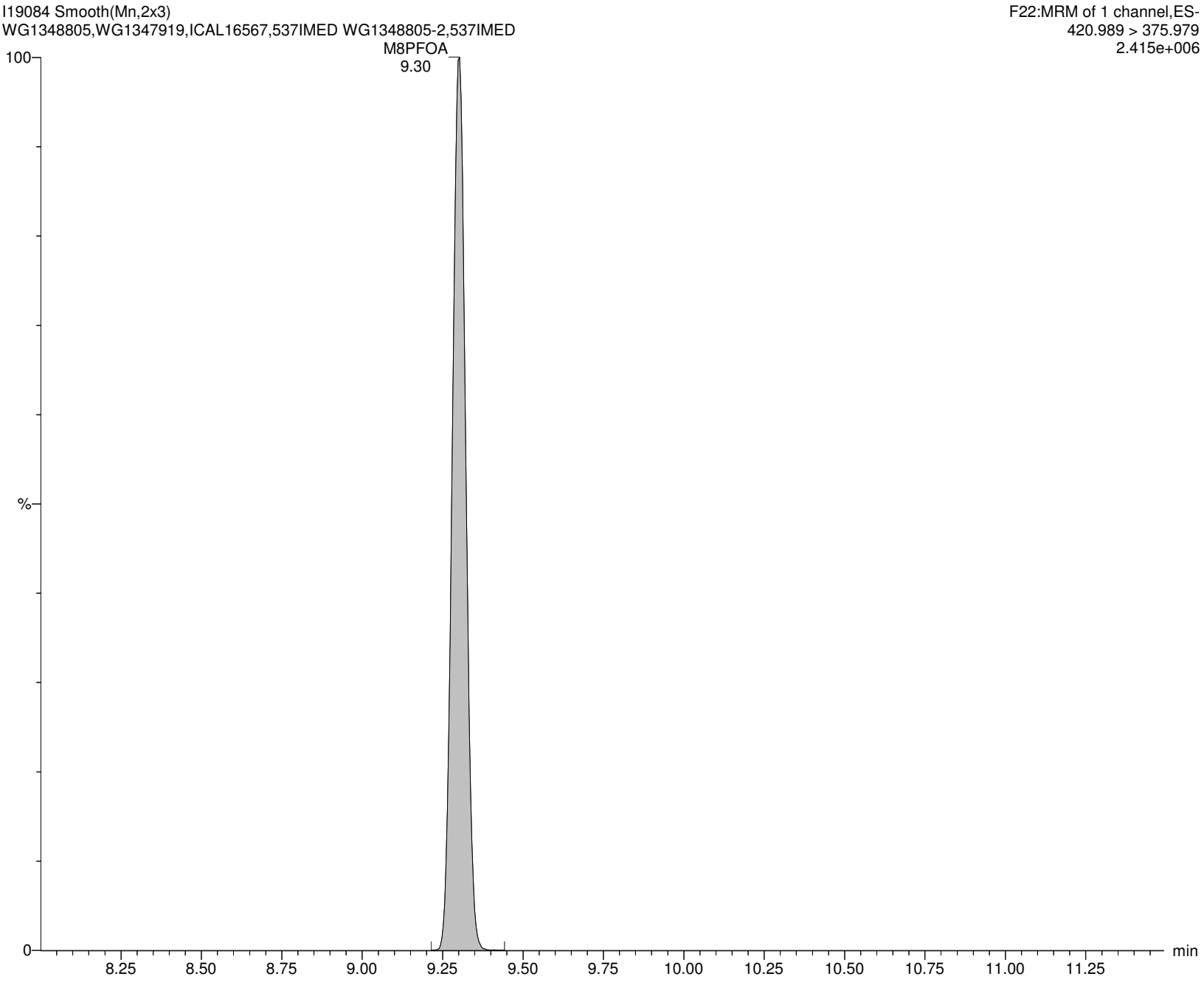

all concentration units in (ng/mL)

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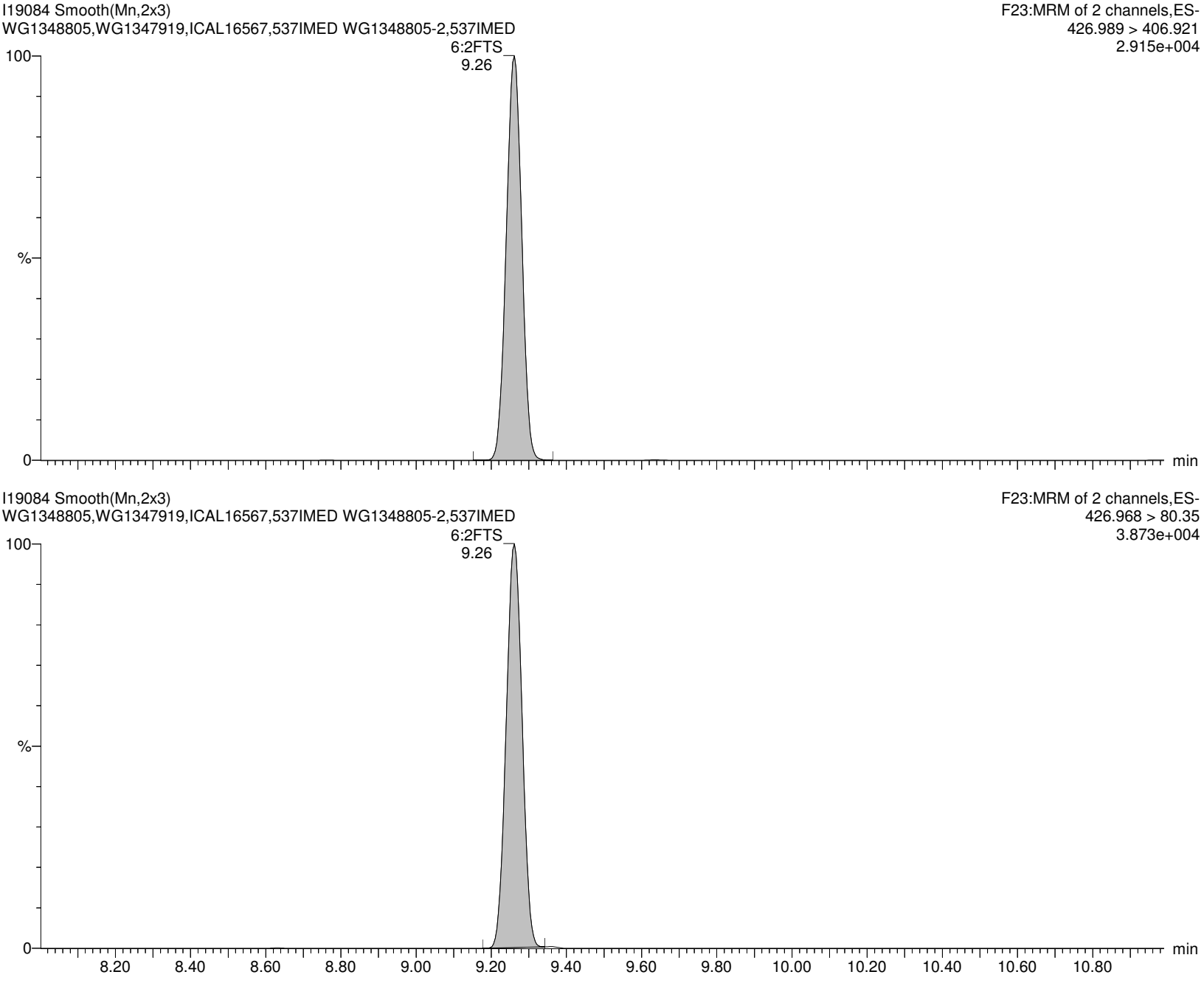

all concentration units in (ng/mL)

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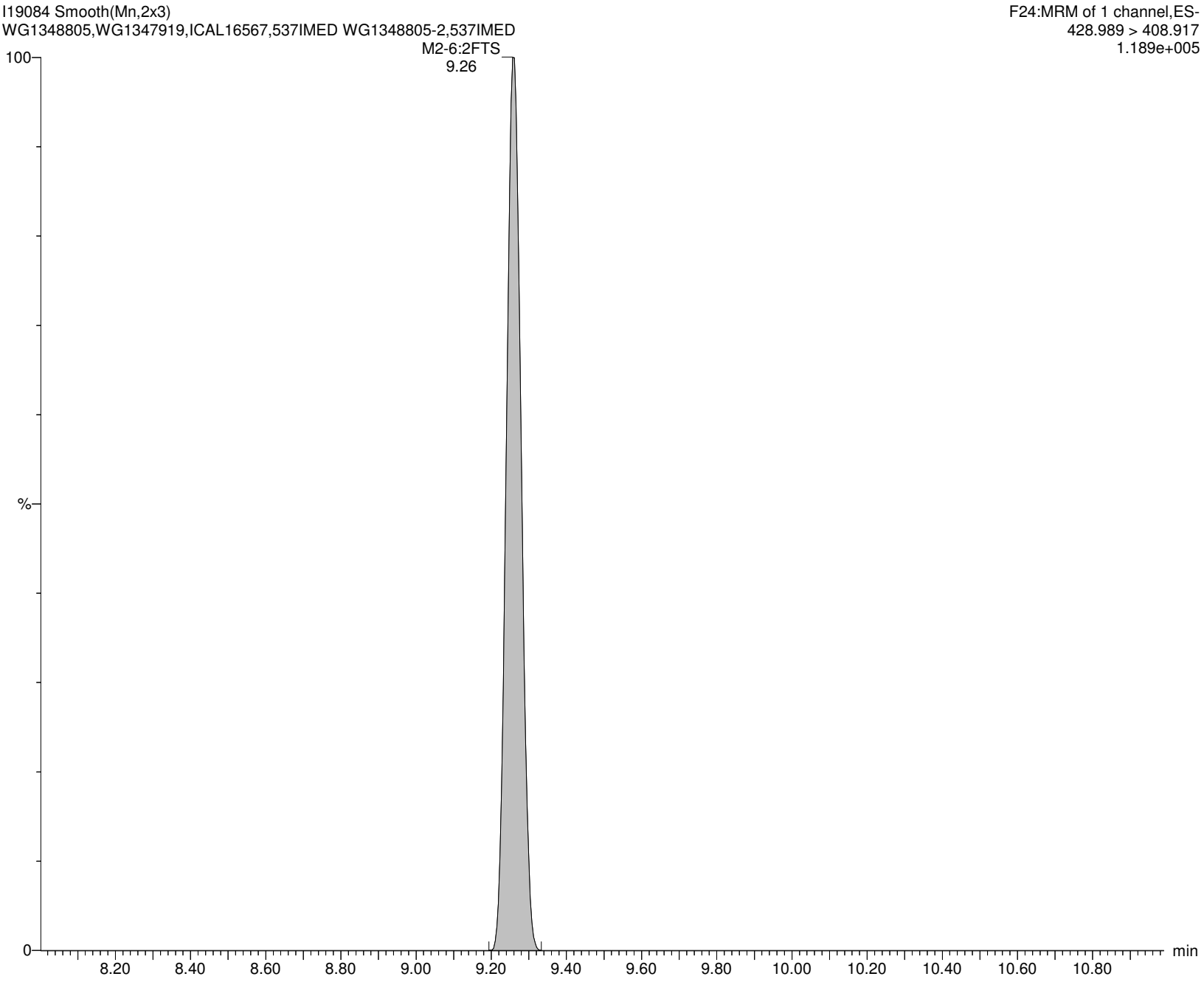

all concentration units in (ng/mL)

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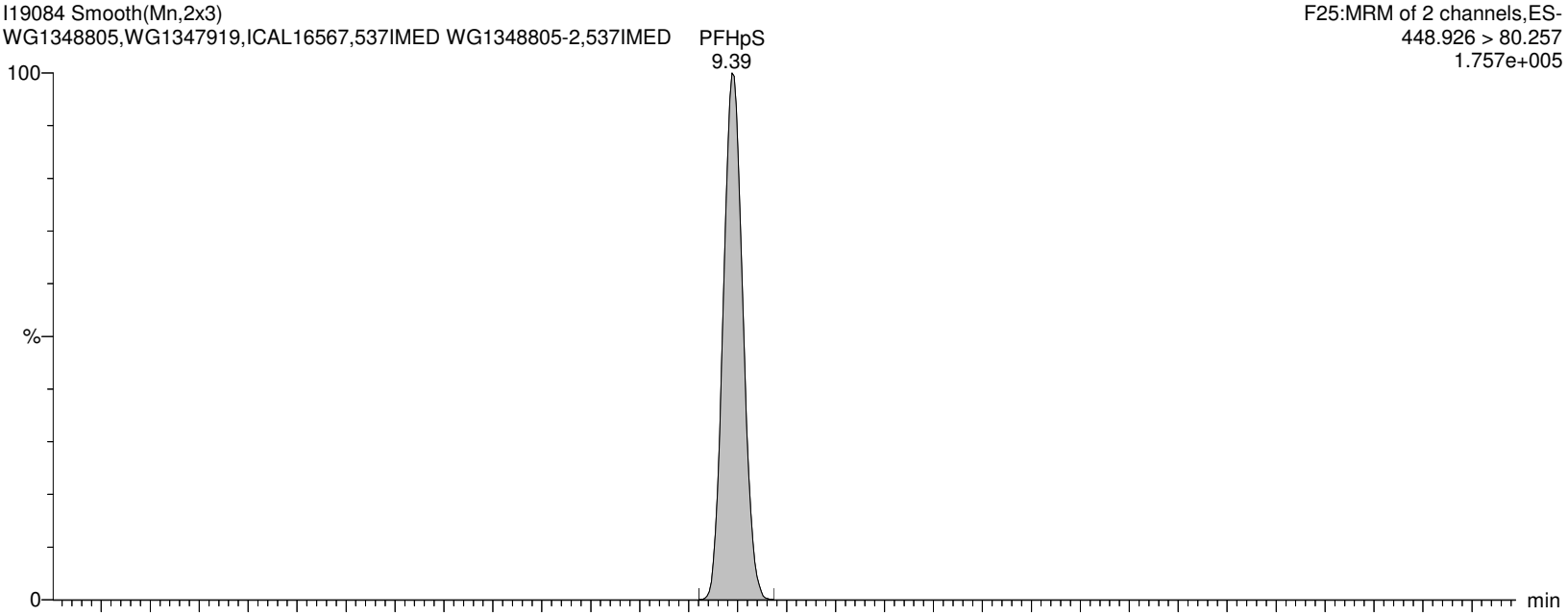

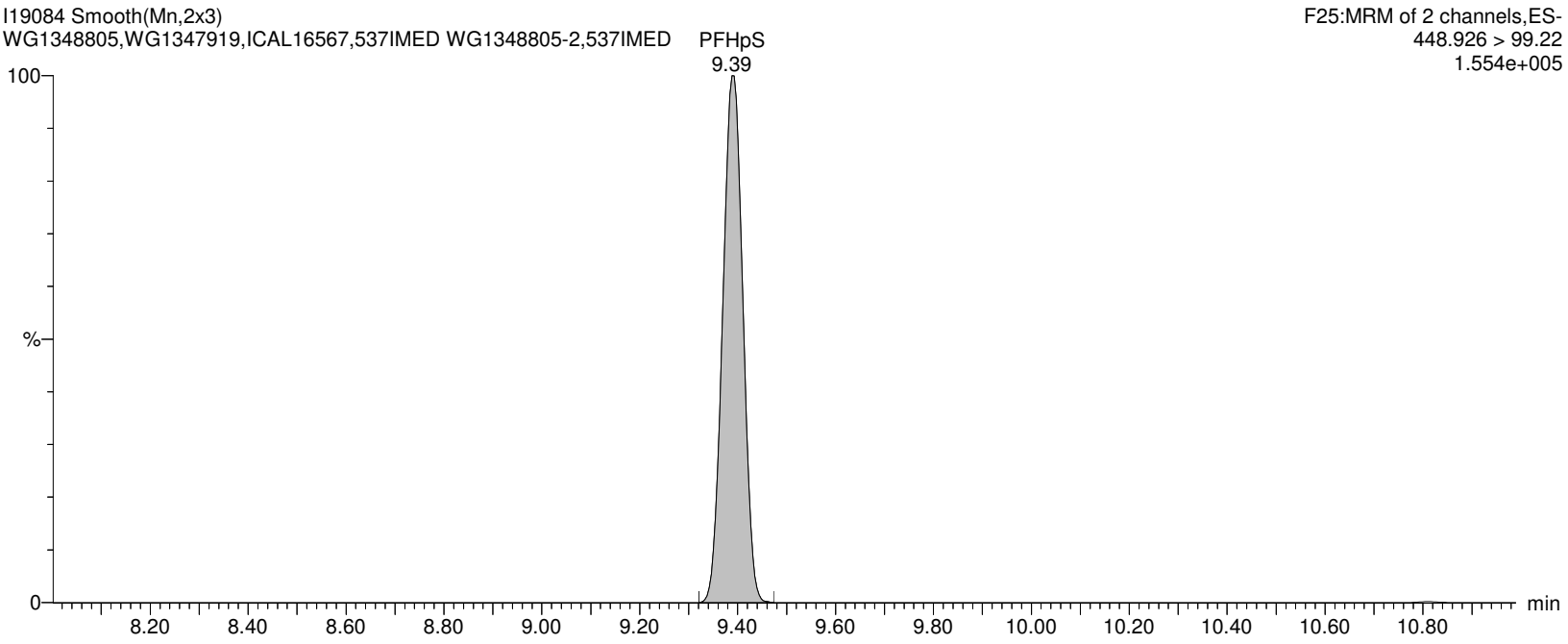

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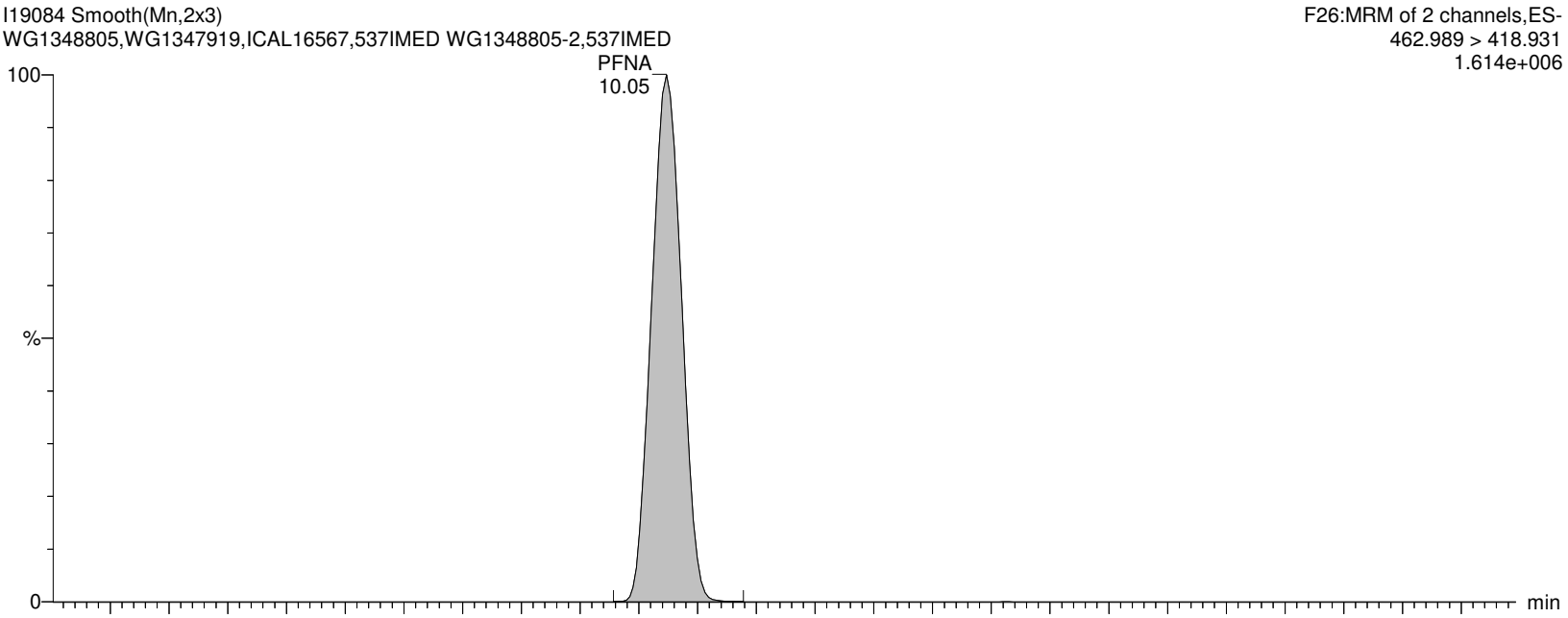

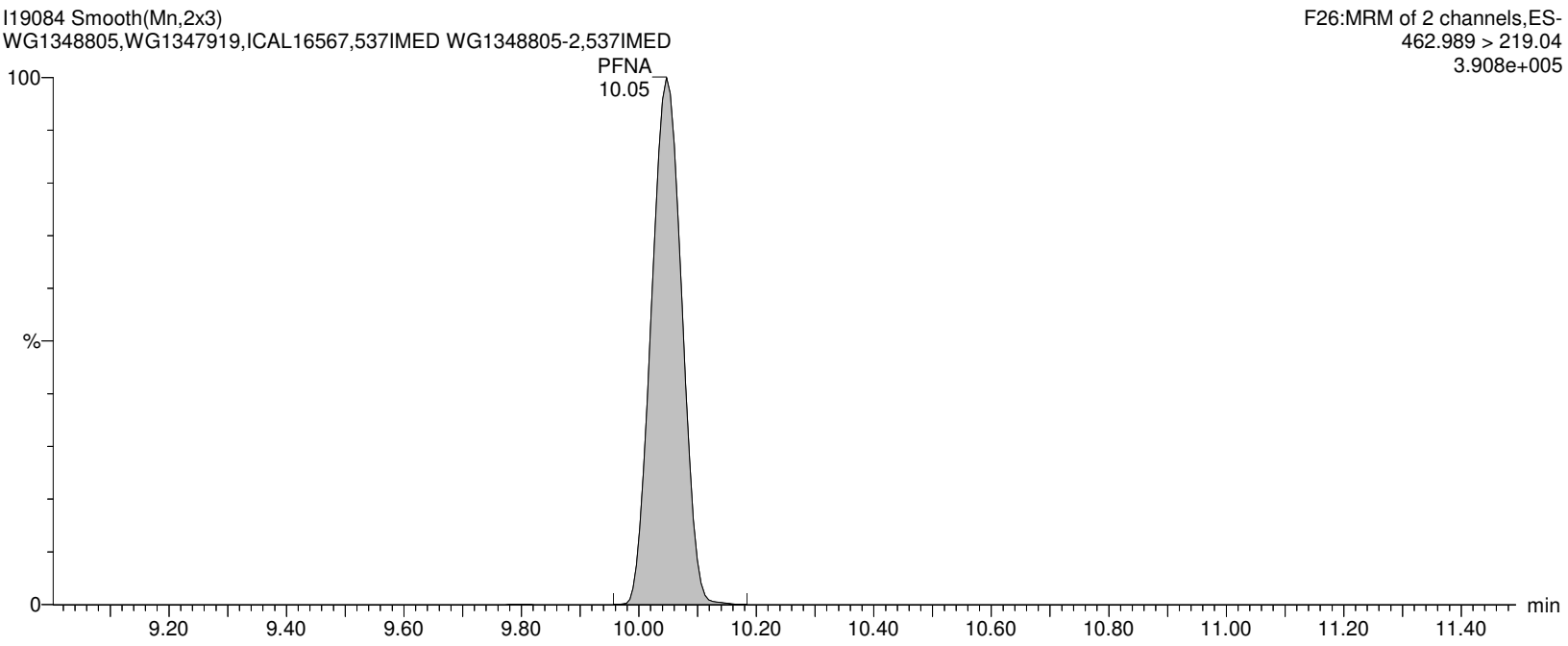

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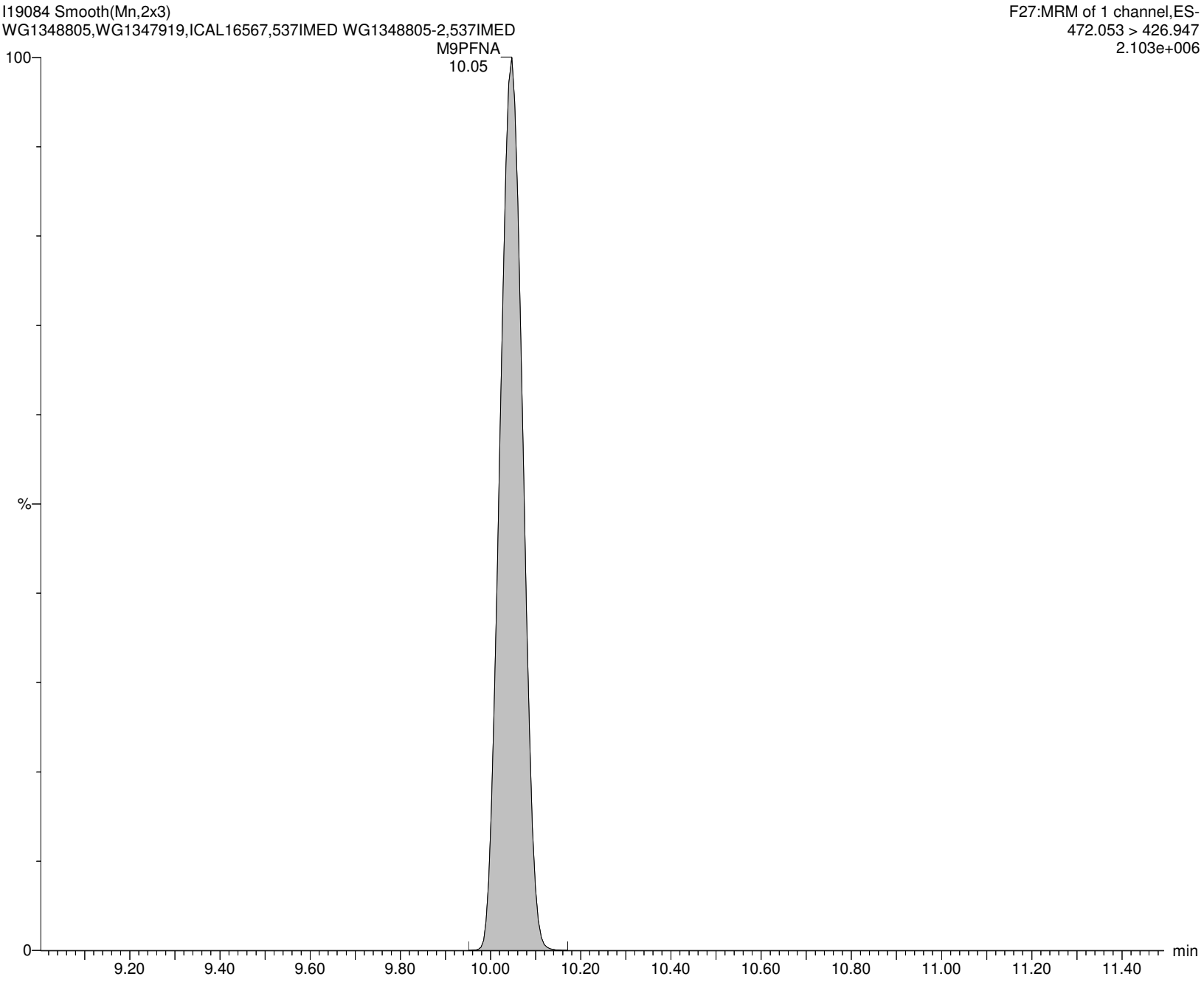

all concentration units in (ng/mL)

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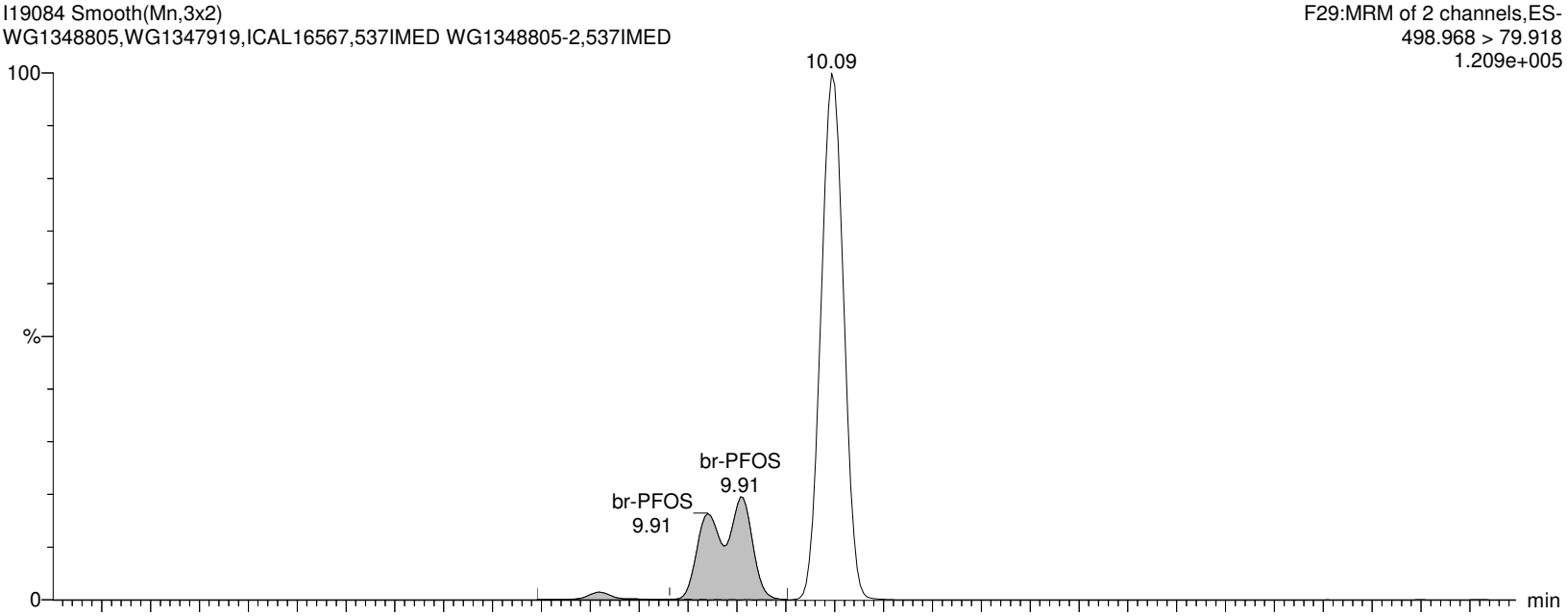

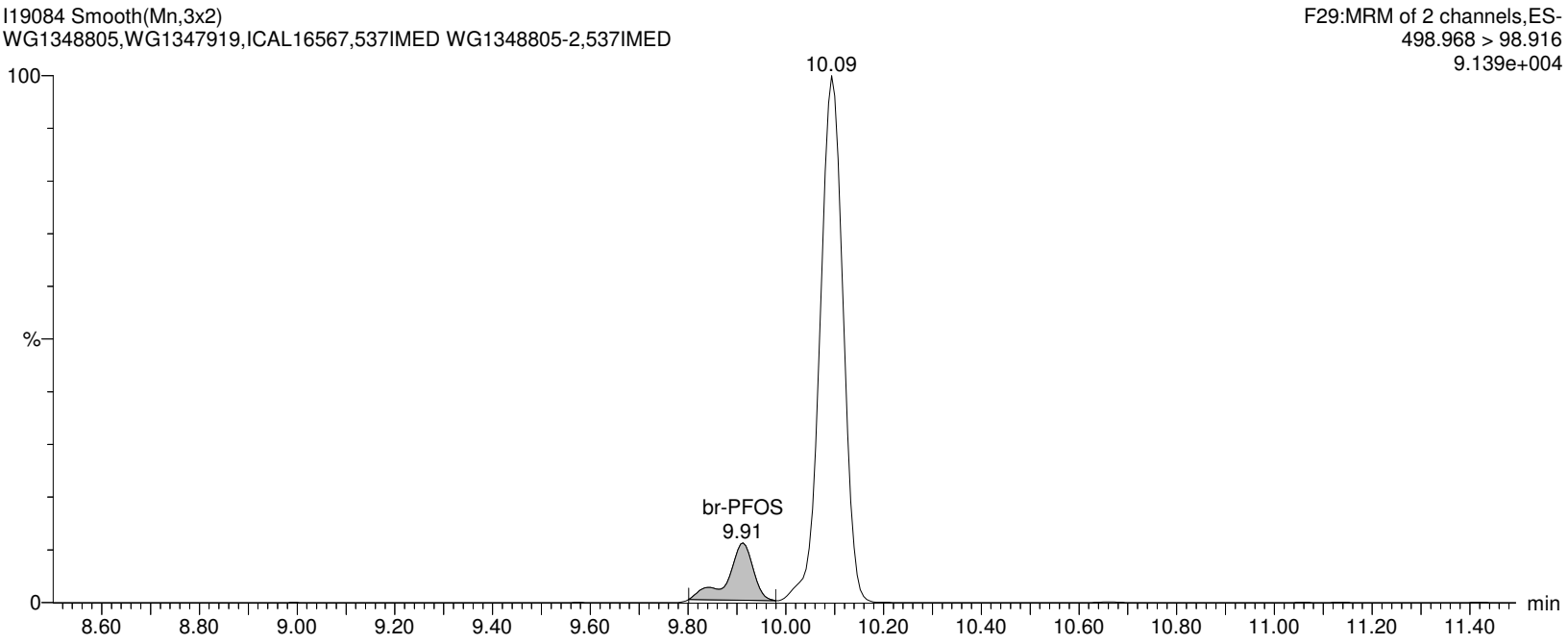

all concentration units in (ng/mL)

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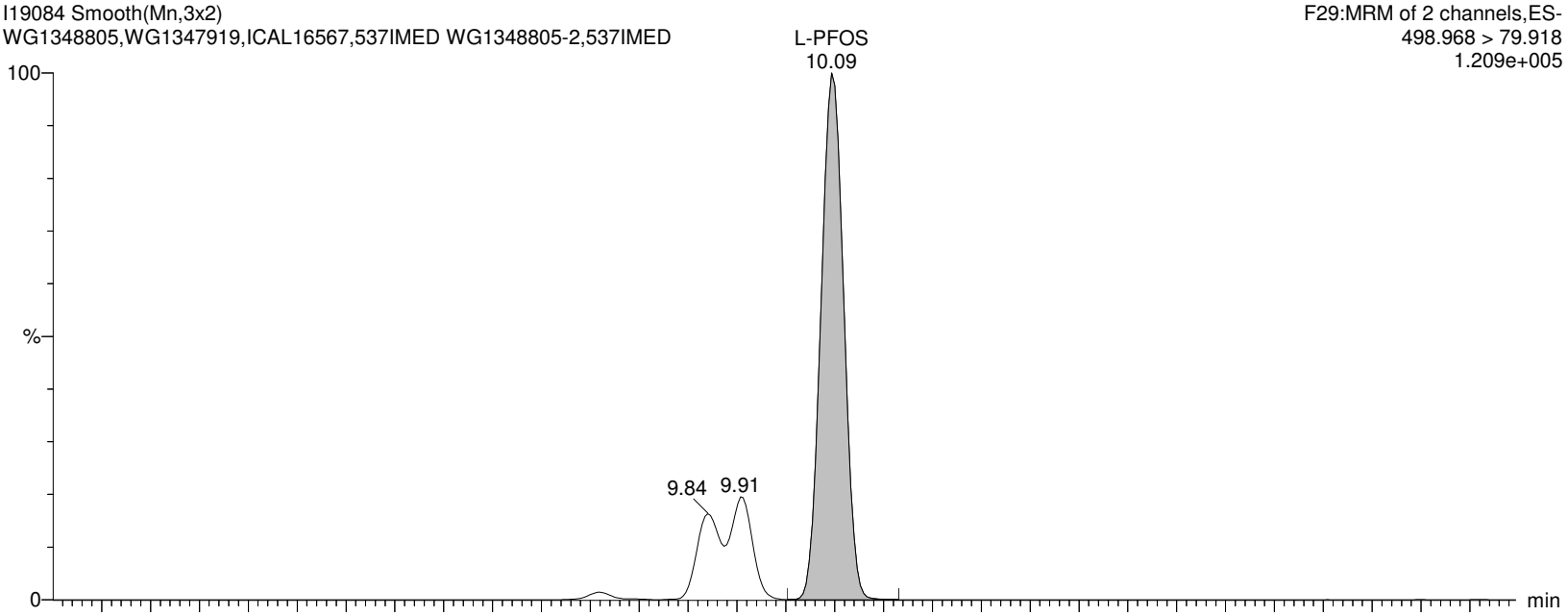

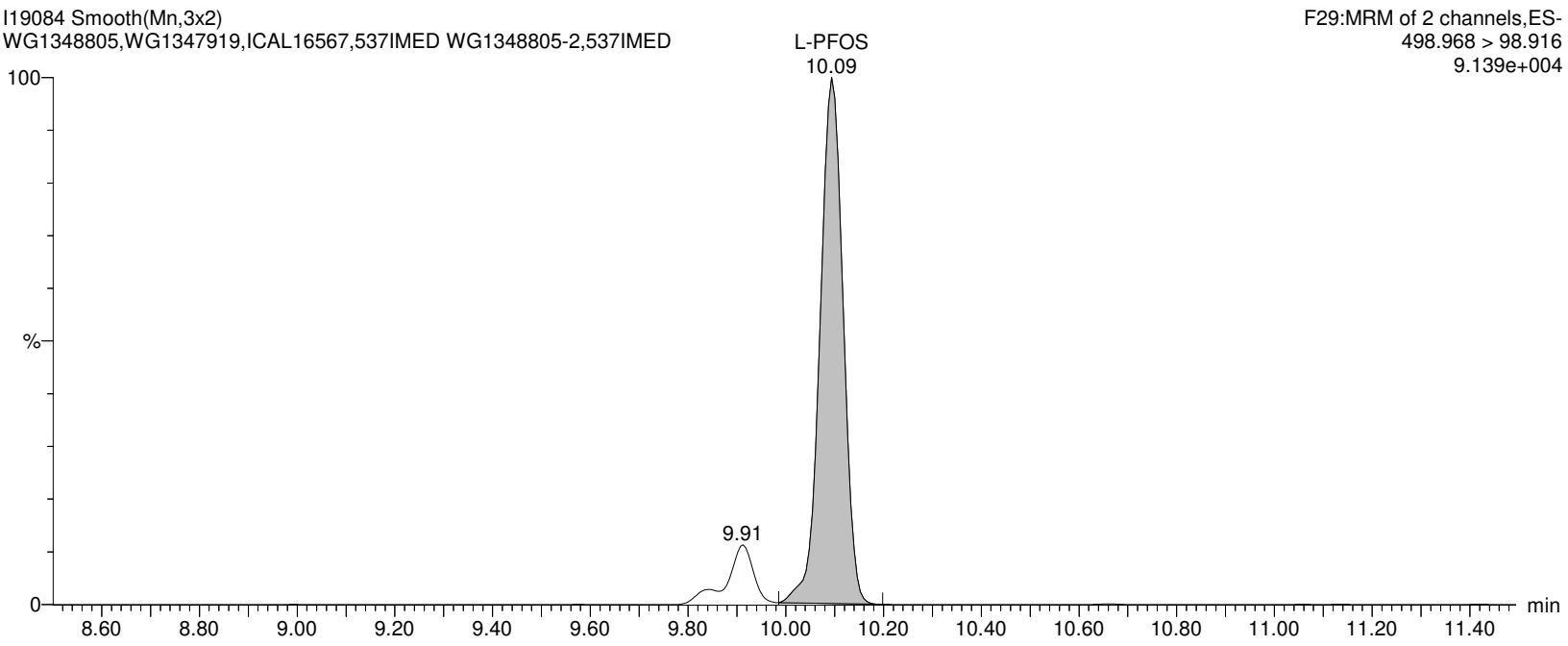

all concentration units in (ng/mL)

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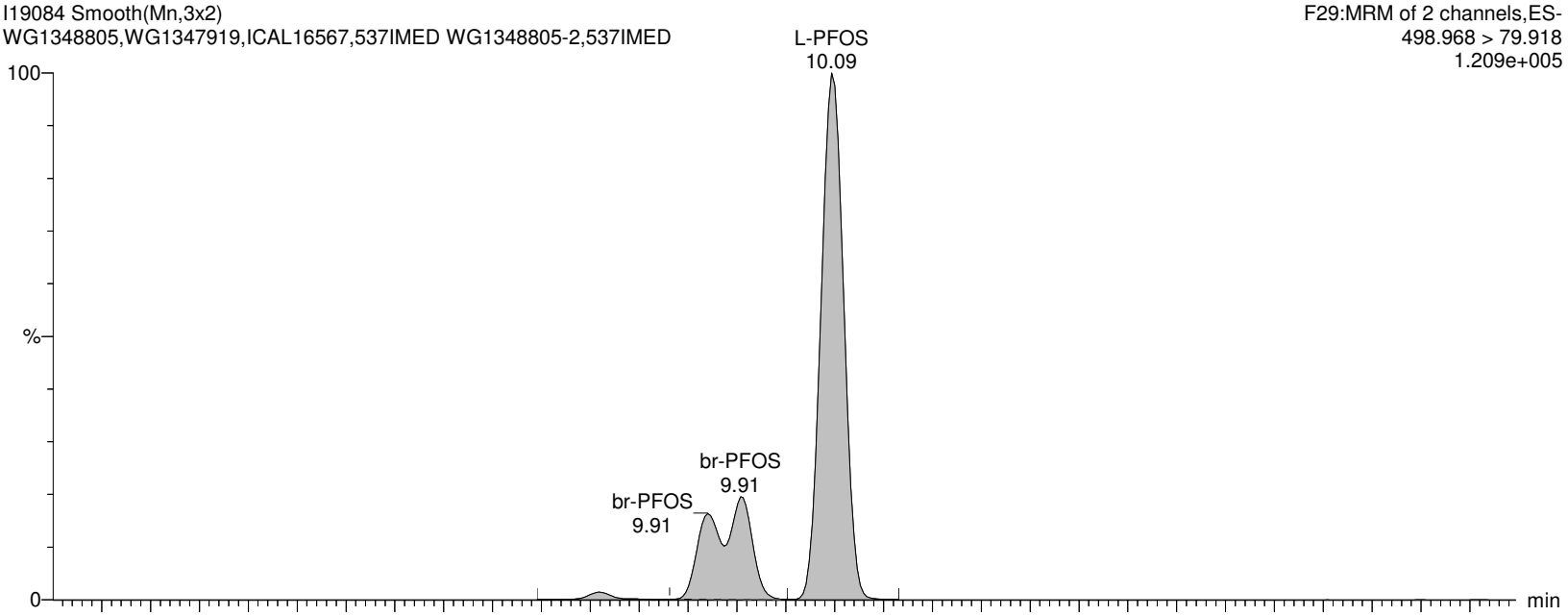

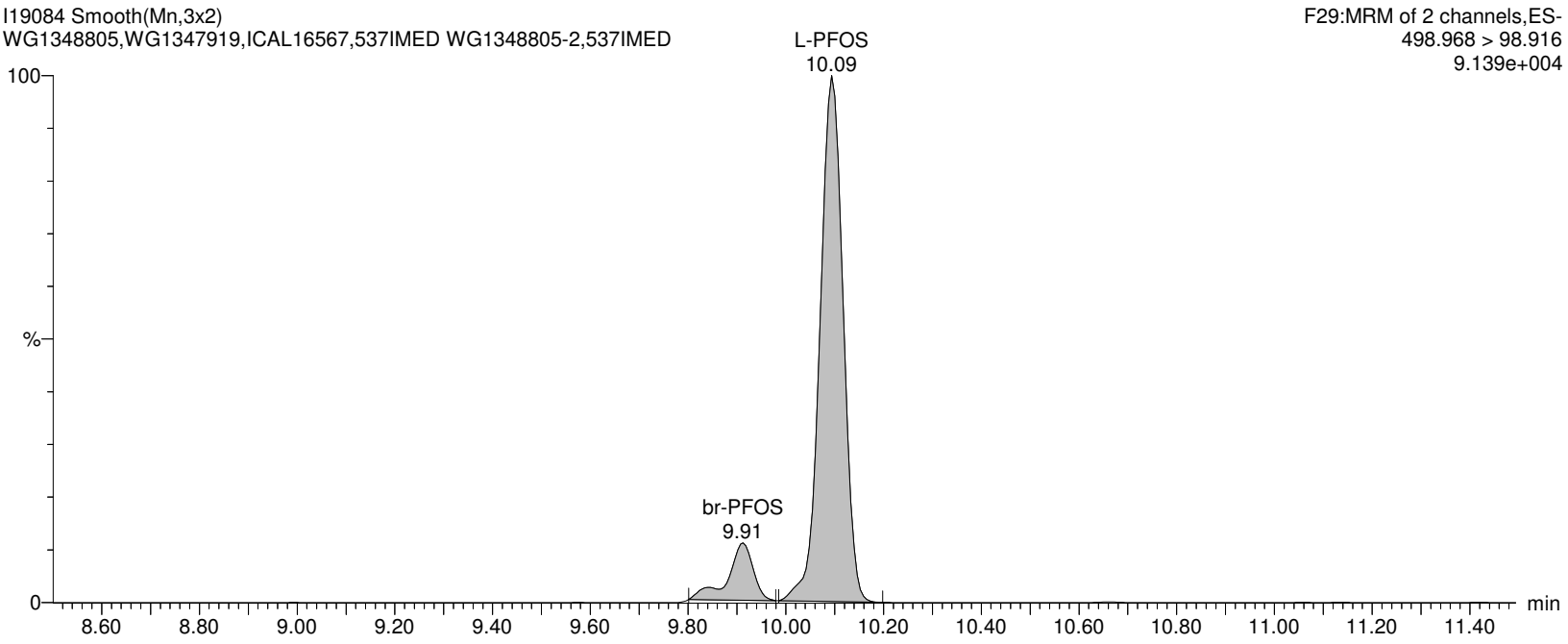

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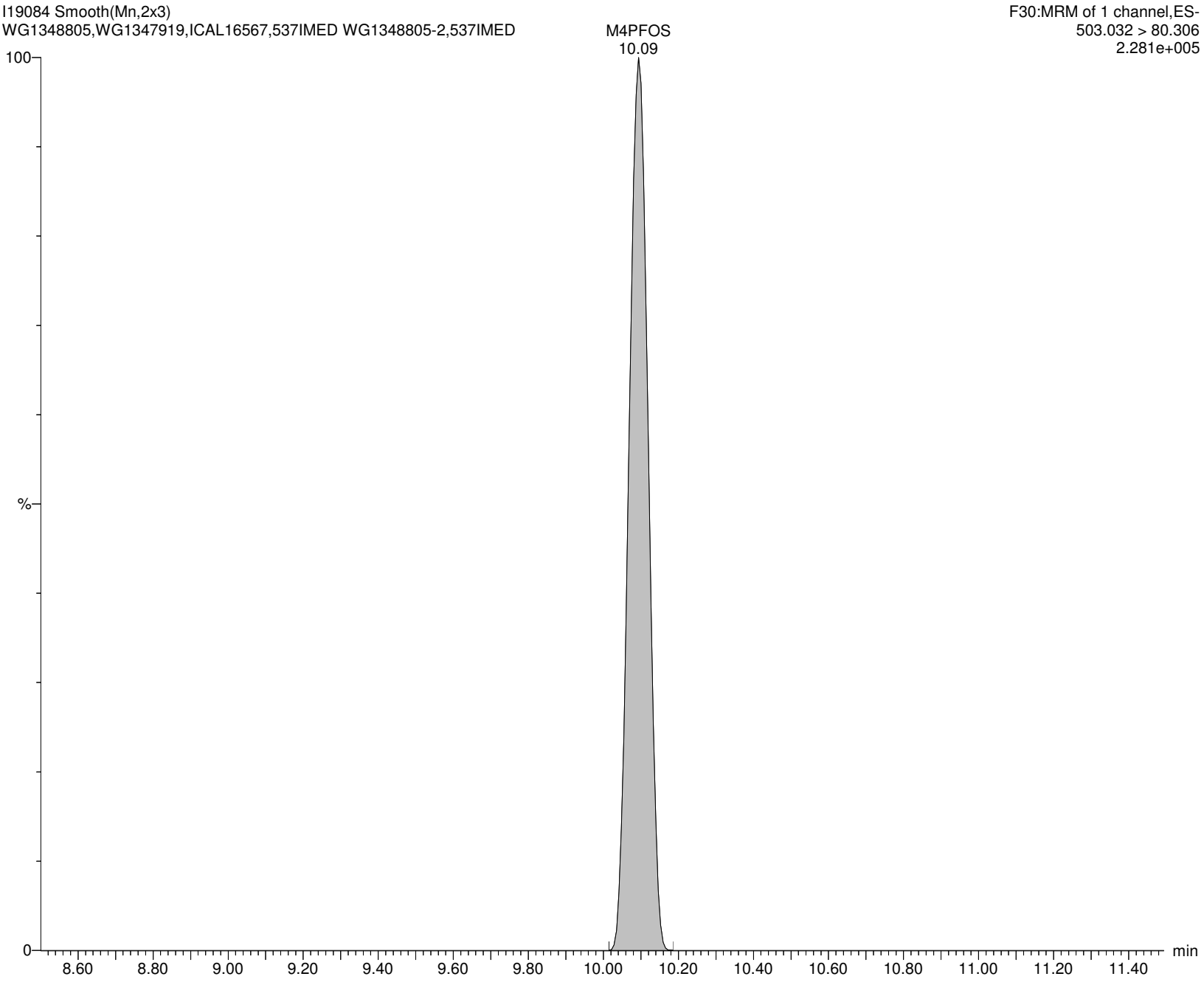

all concentration units in (ng/mL)

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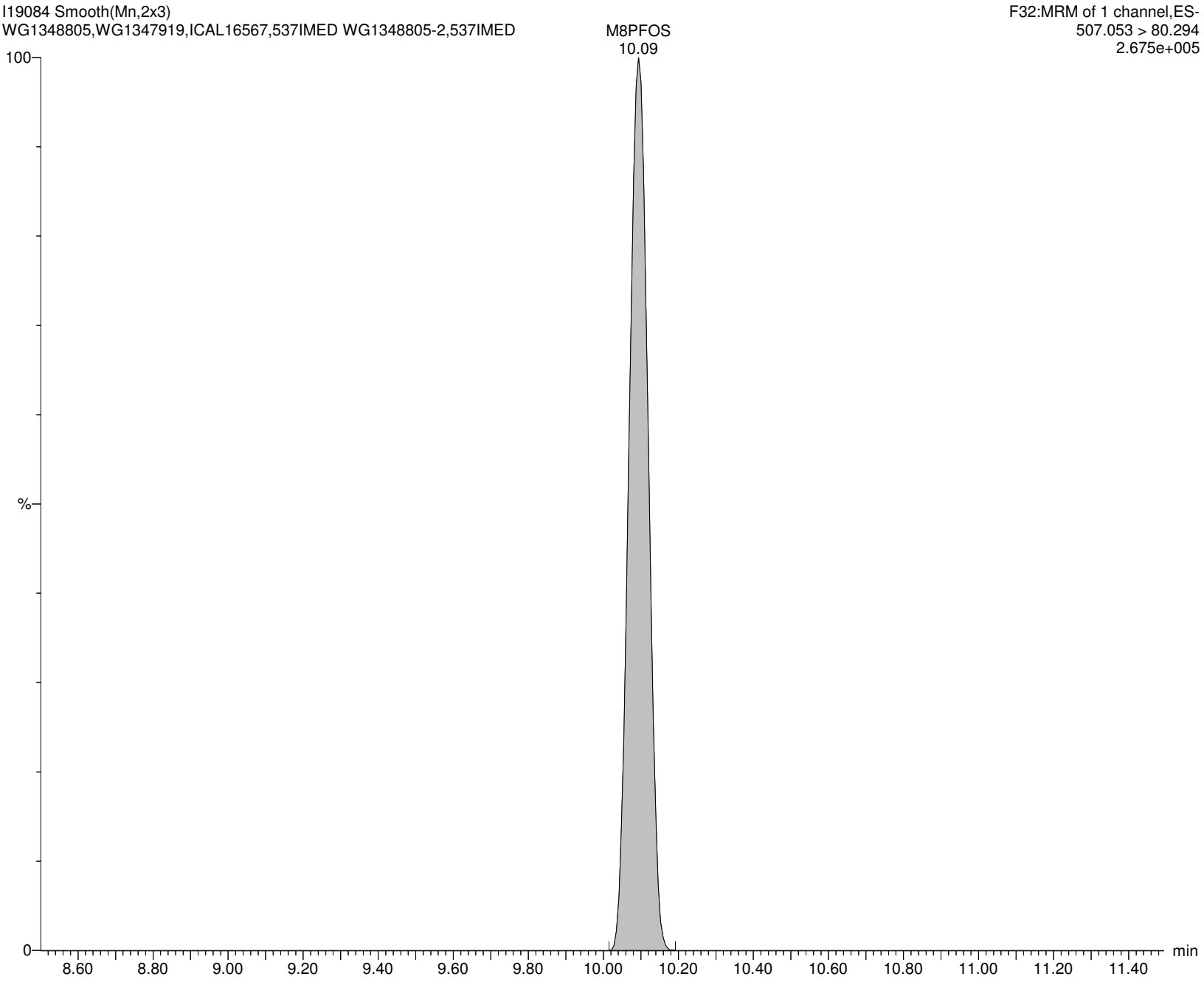

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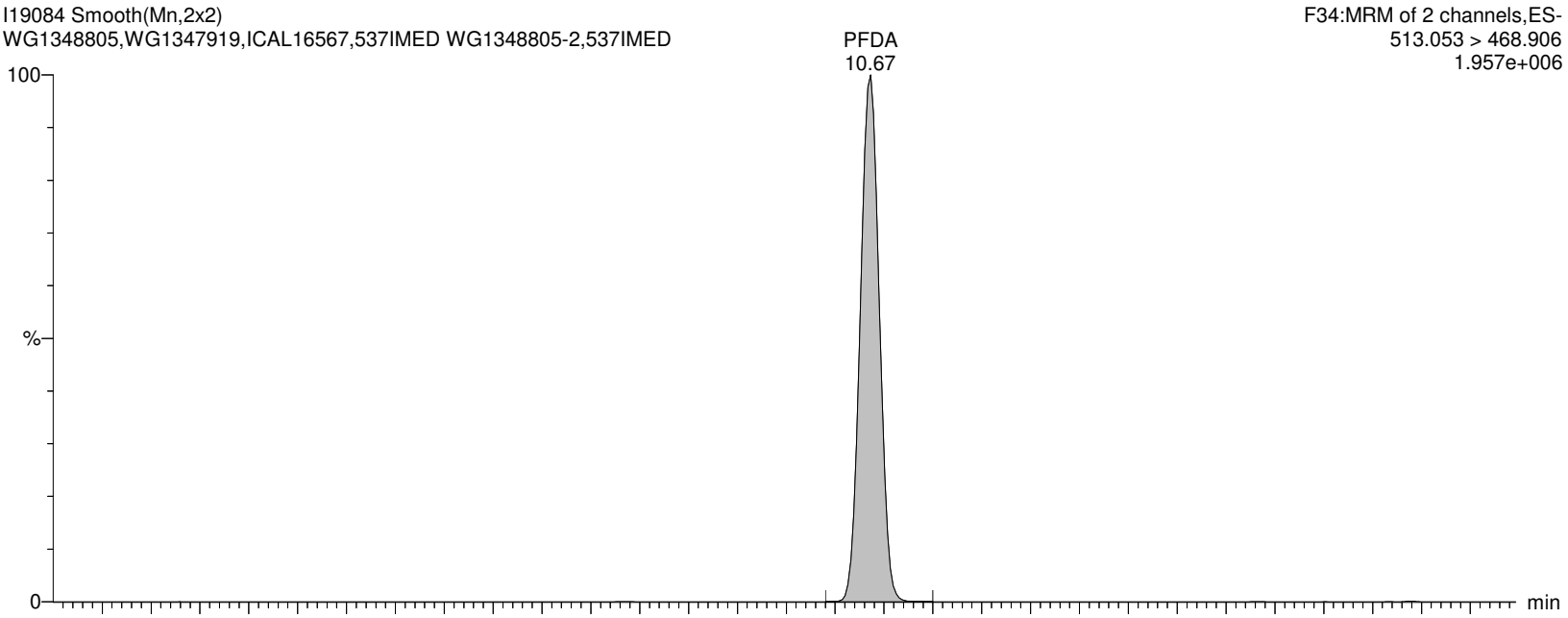

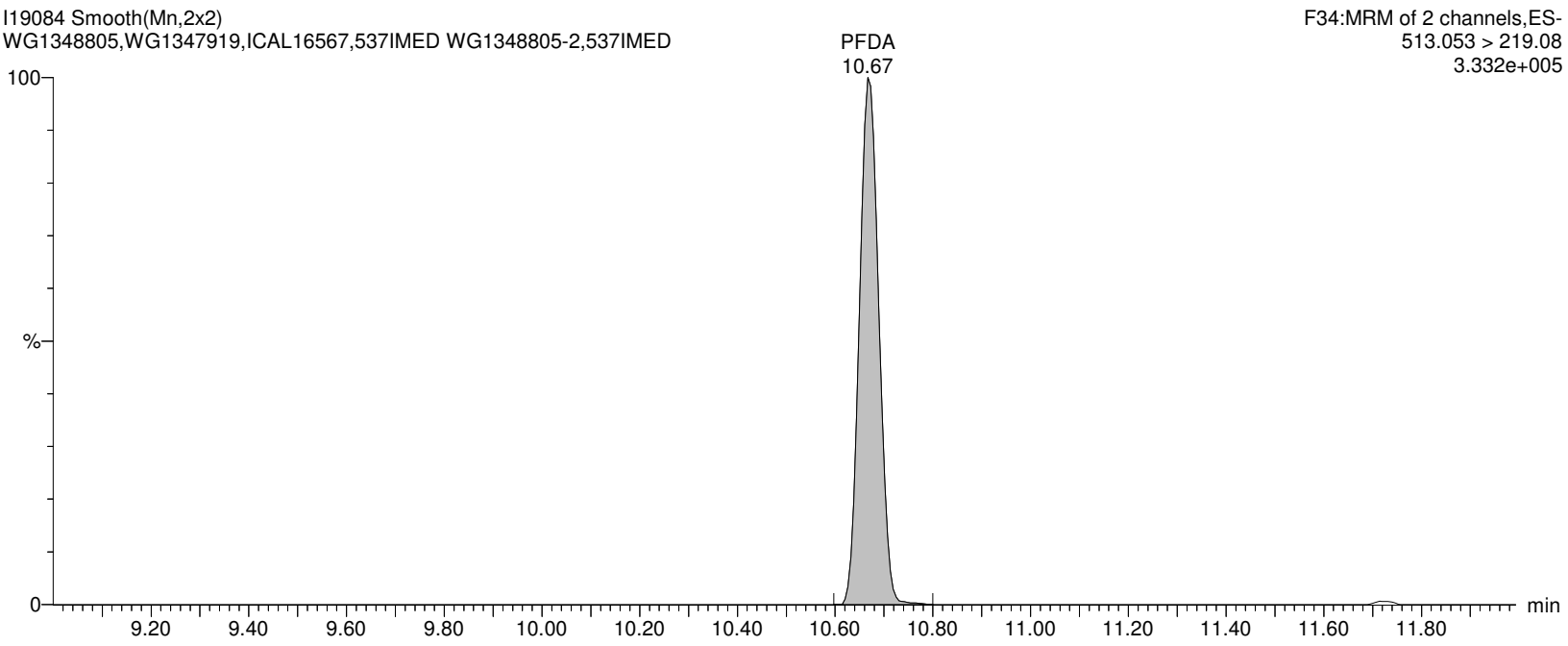

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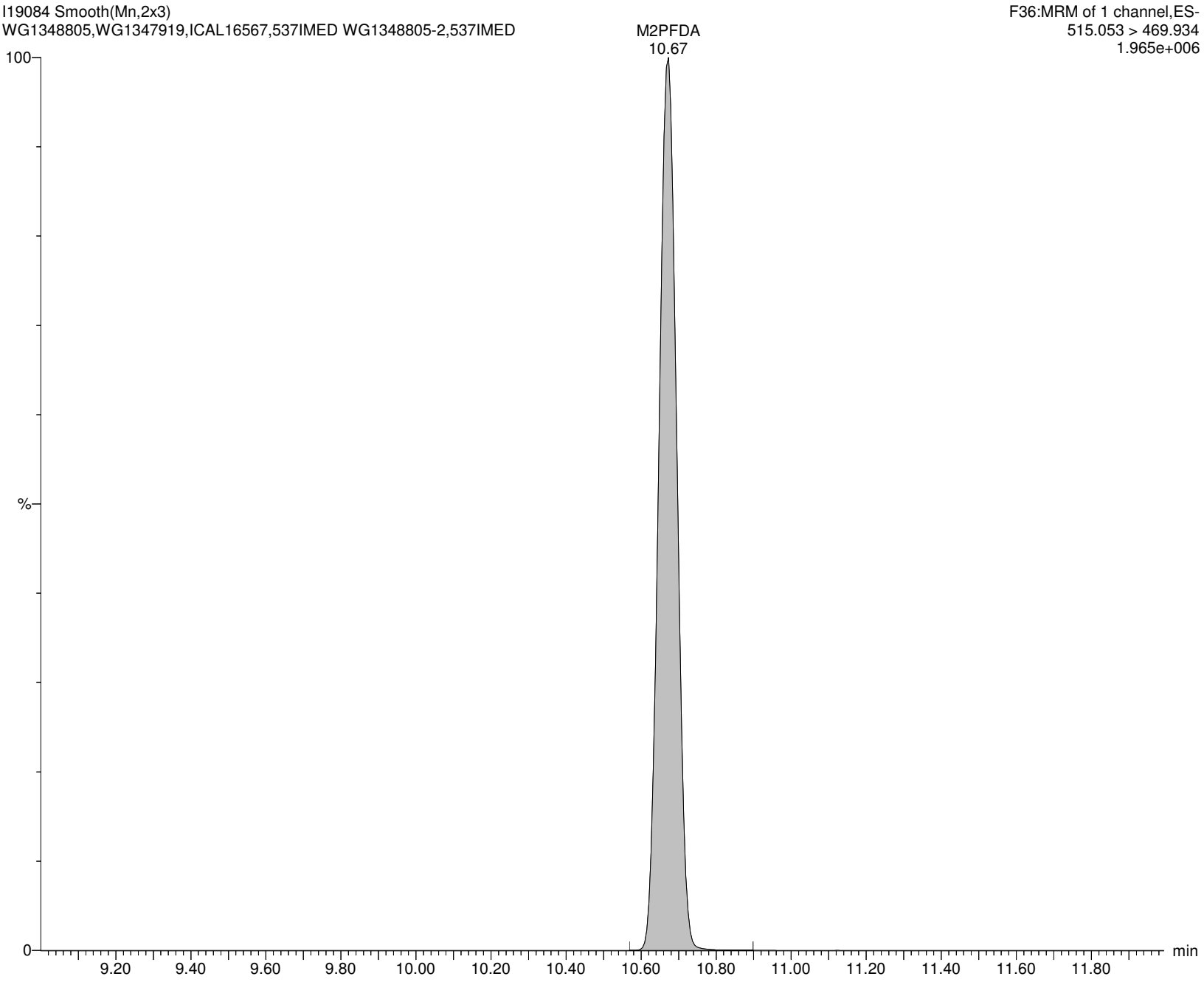

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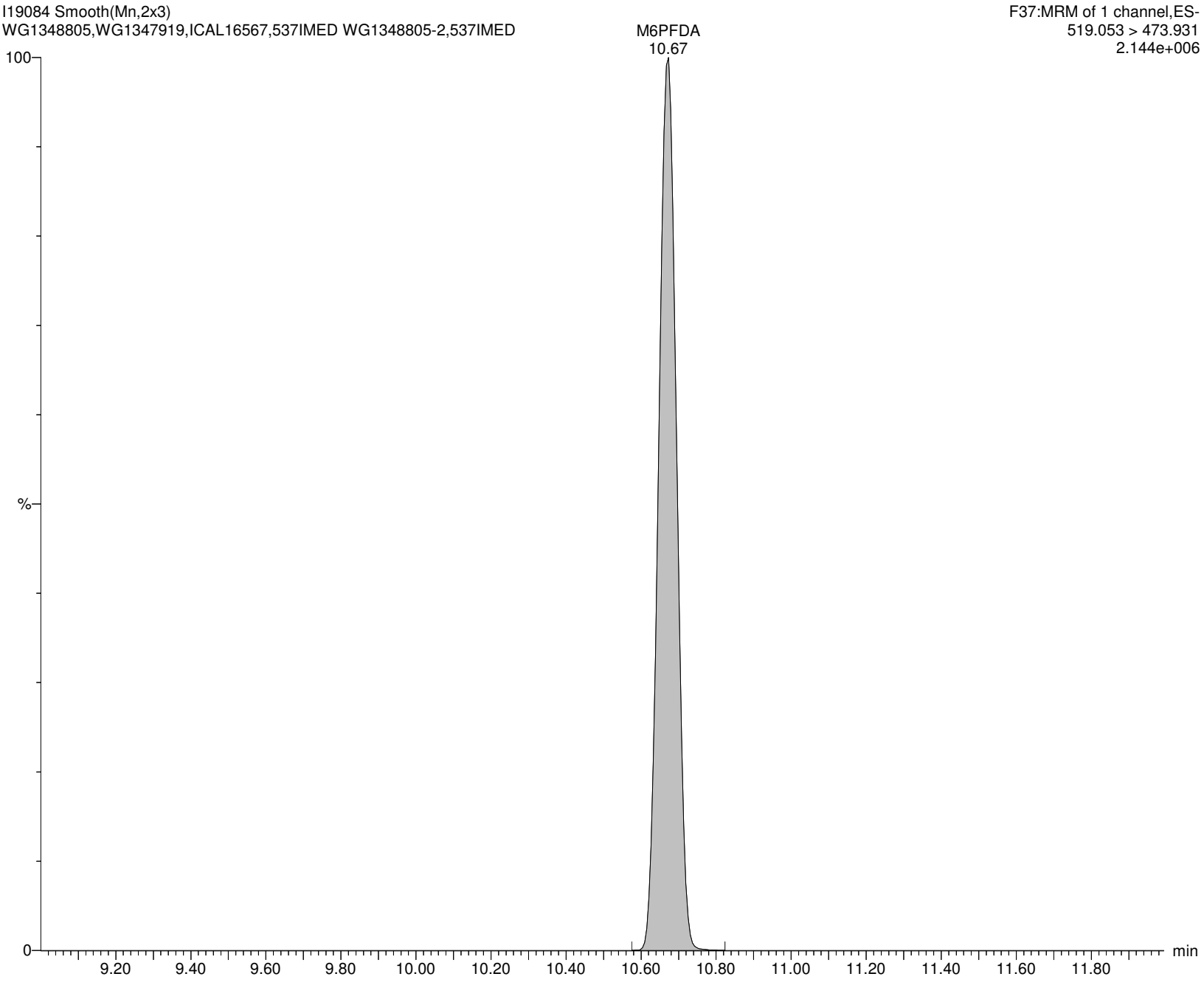

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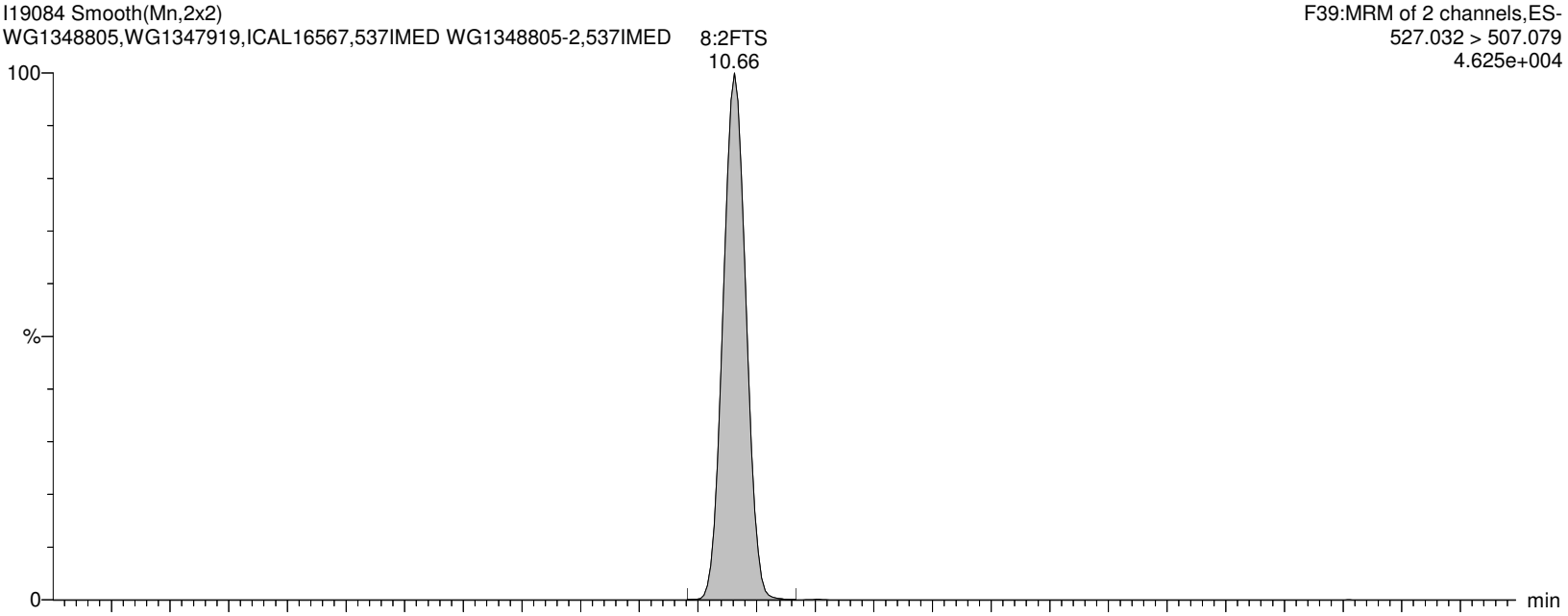
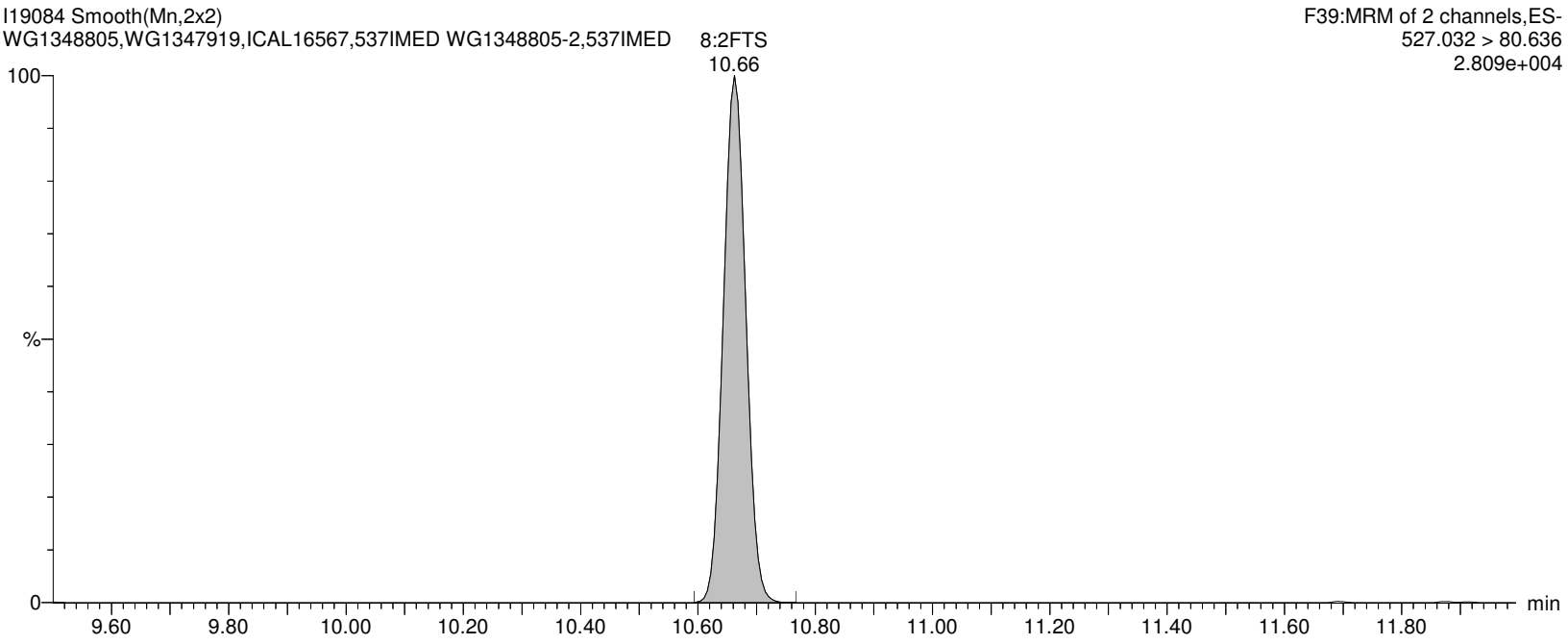
8:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 10, 2020 20:06:08 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:08:36 Eastern Daylight Time

Name: I19084
ID: WG1348805-2,537IMED
Date: 09-Mar-2020
Time: 17:03:03
Description: WG1348805,WG1347919,ICAL16567,537IMED
User: LCMS01:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
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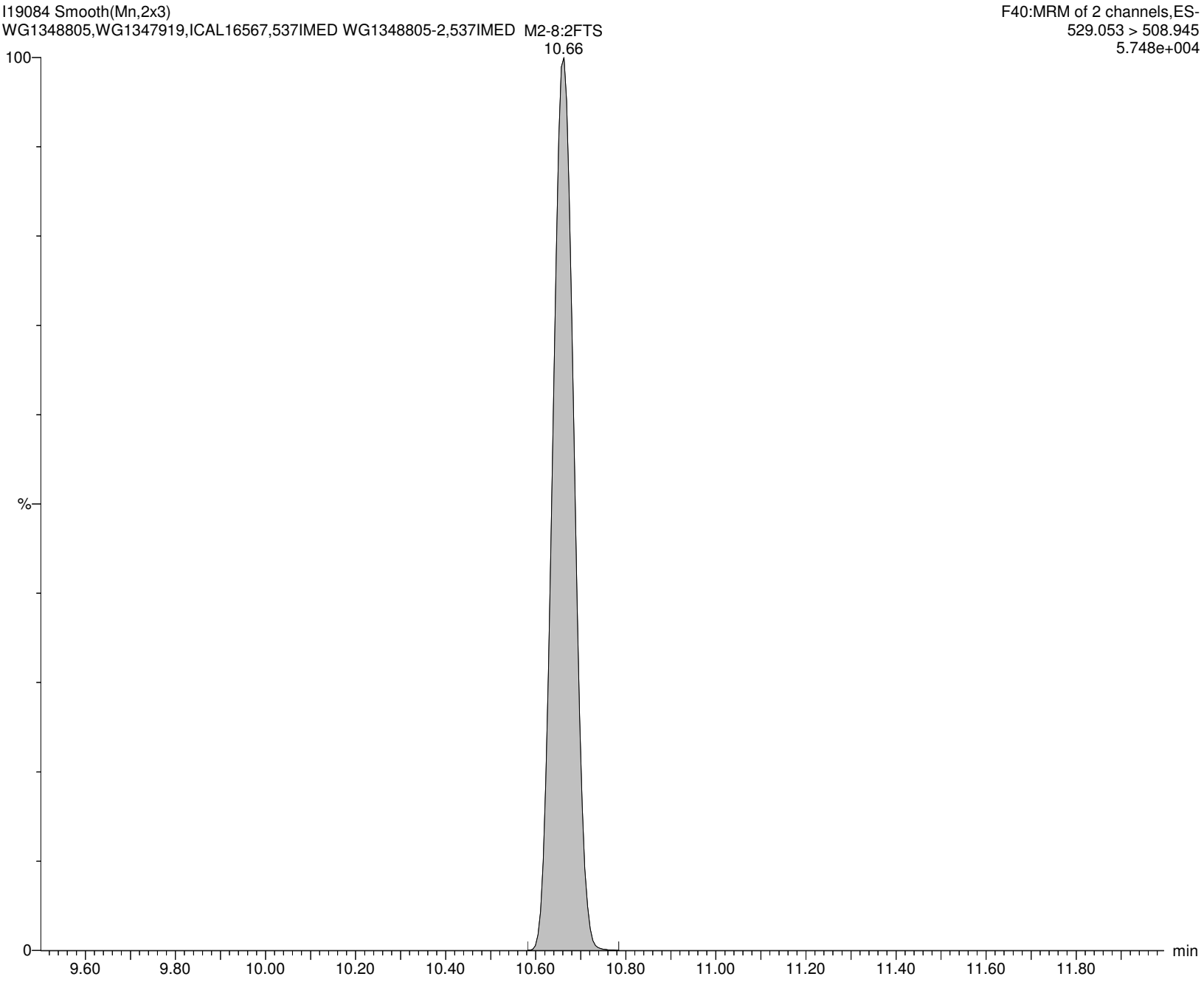

all concentration units in (ng/mL)

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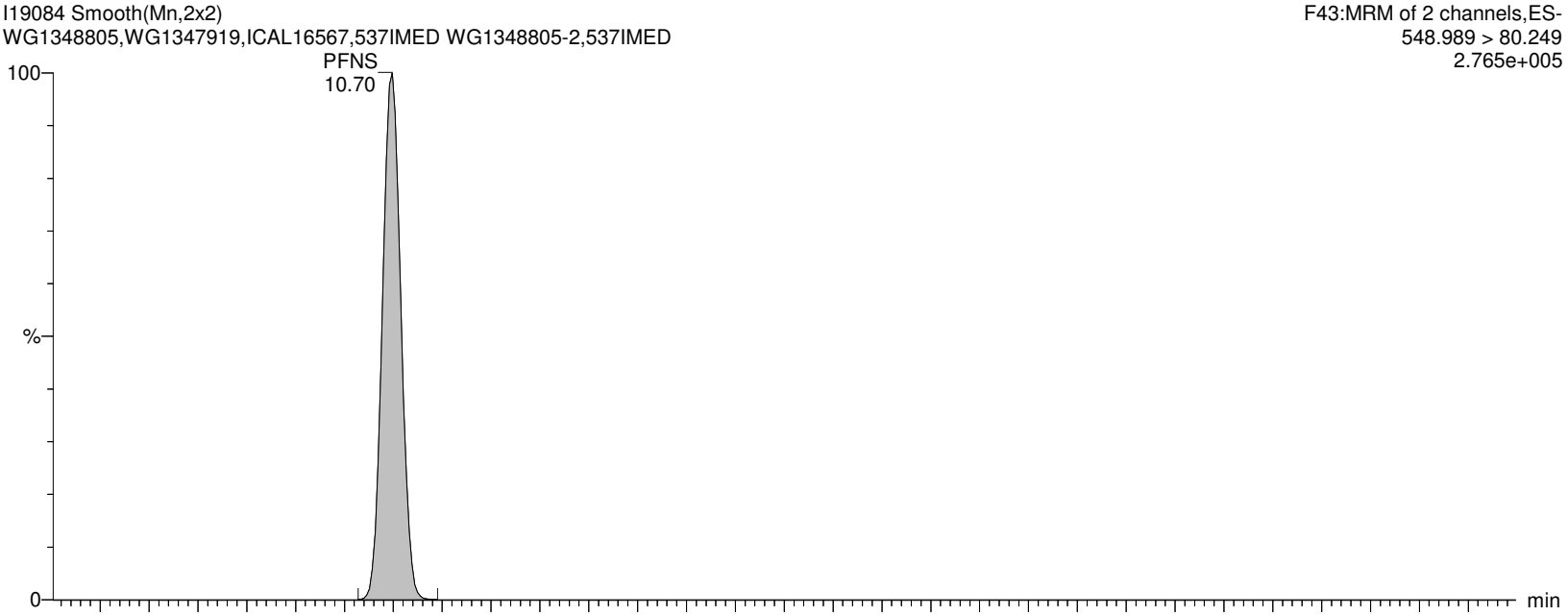

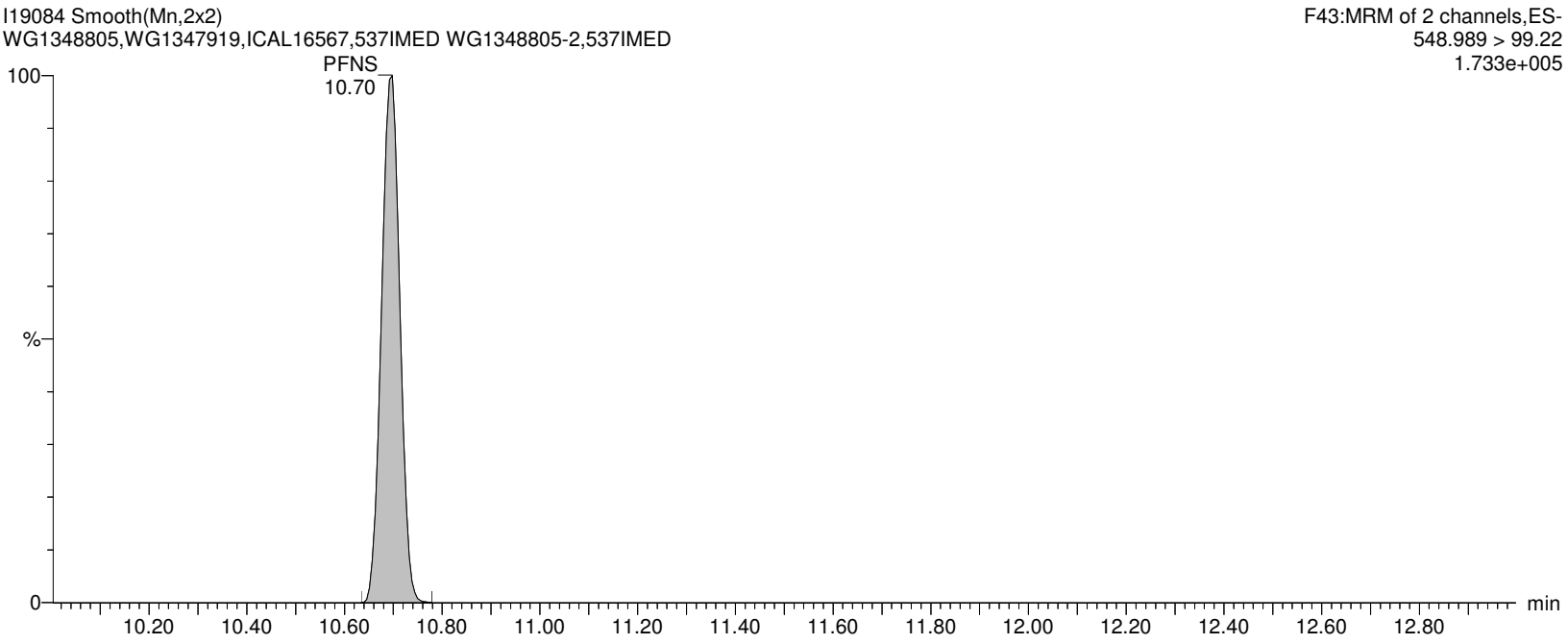

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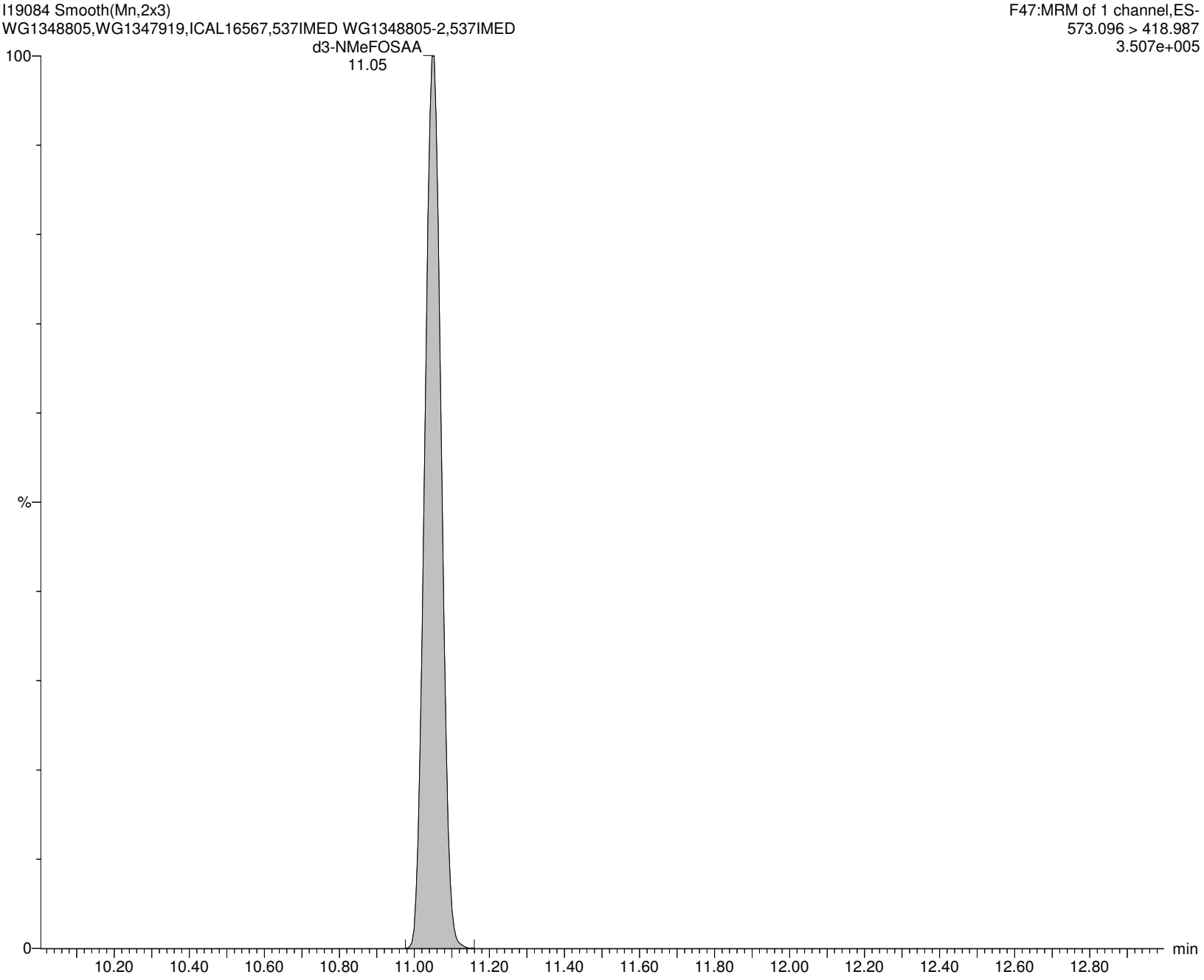
d3-NMeFOSAA



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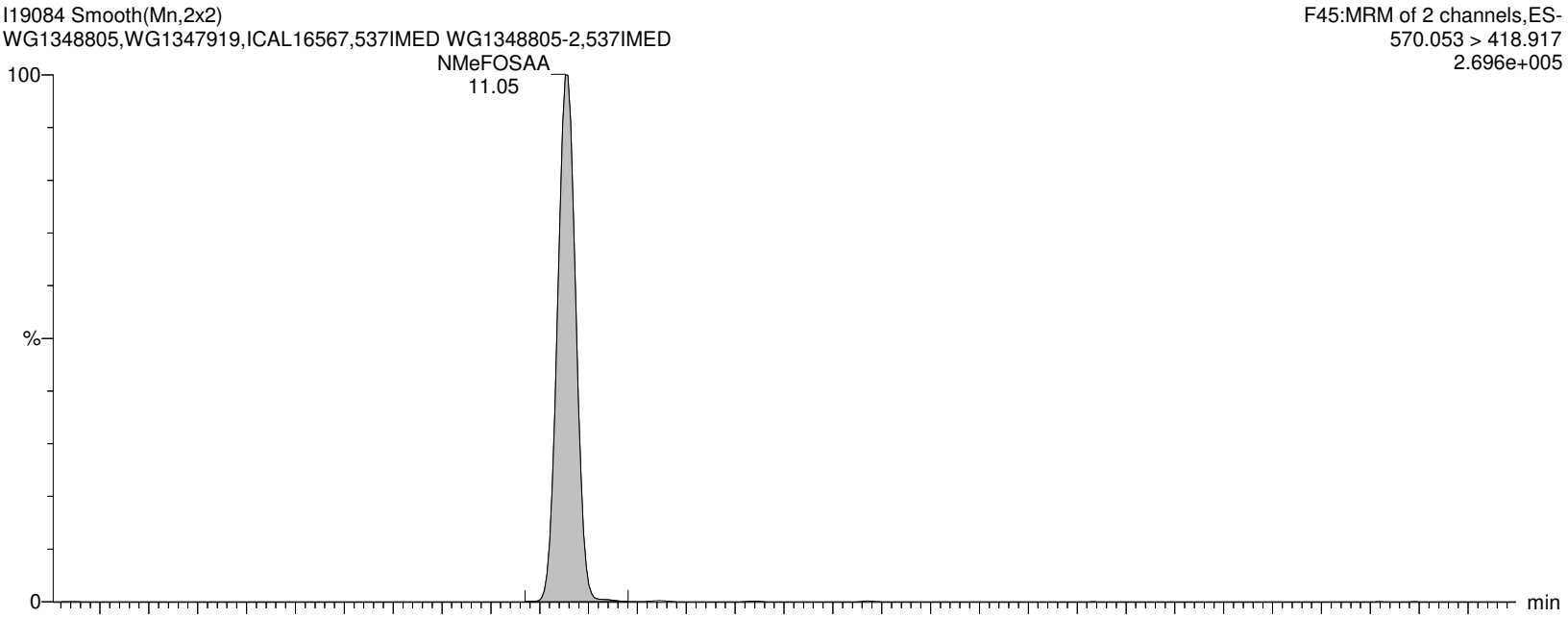

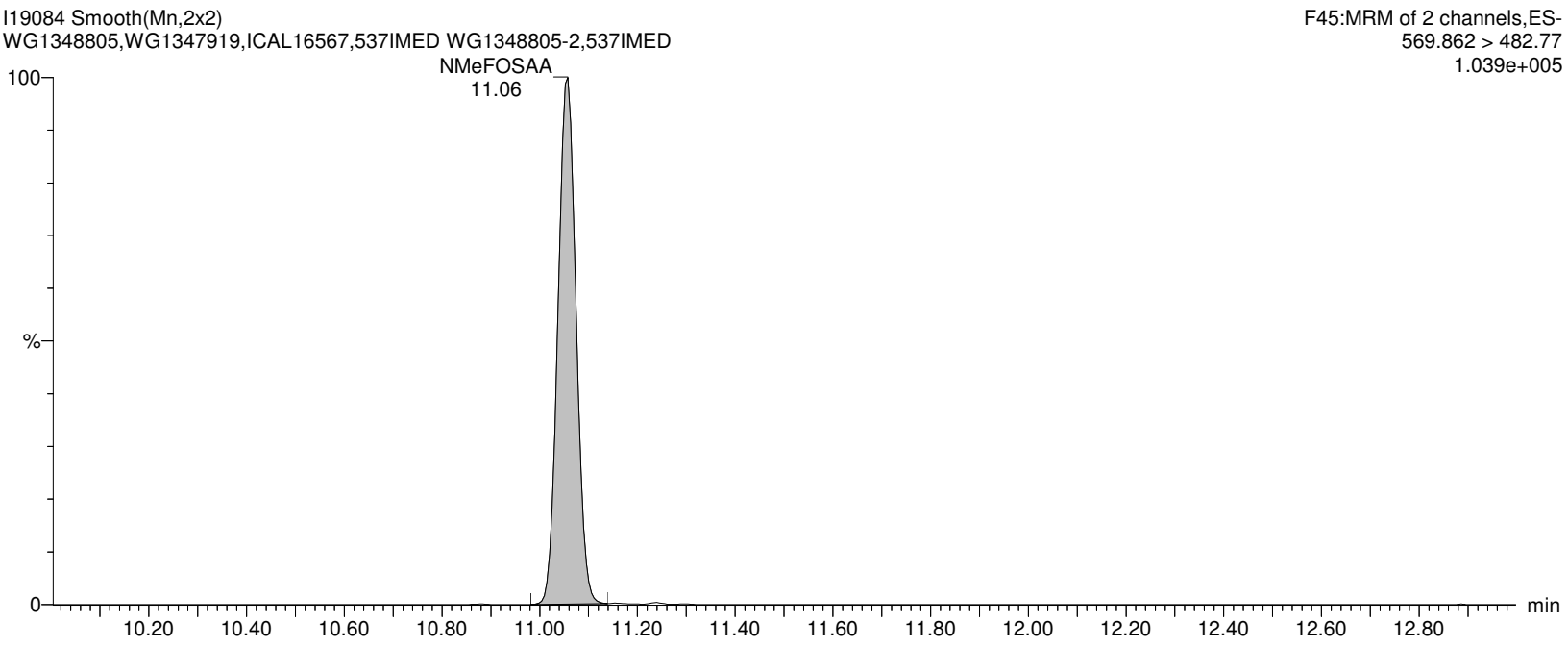

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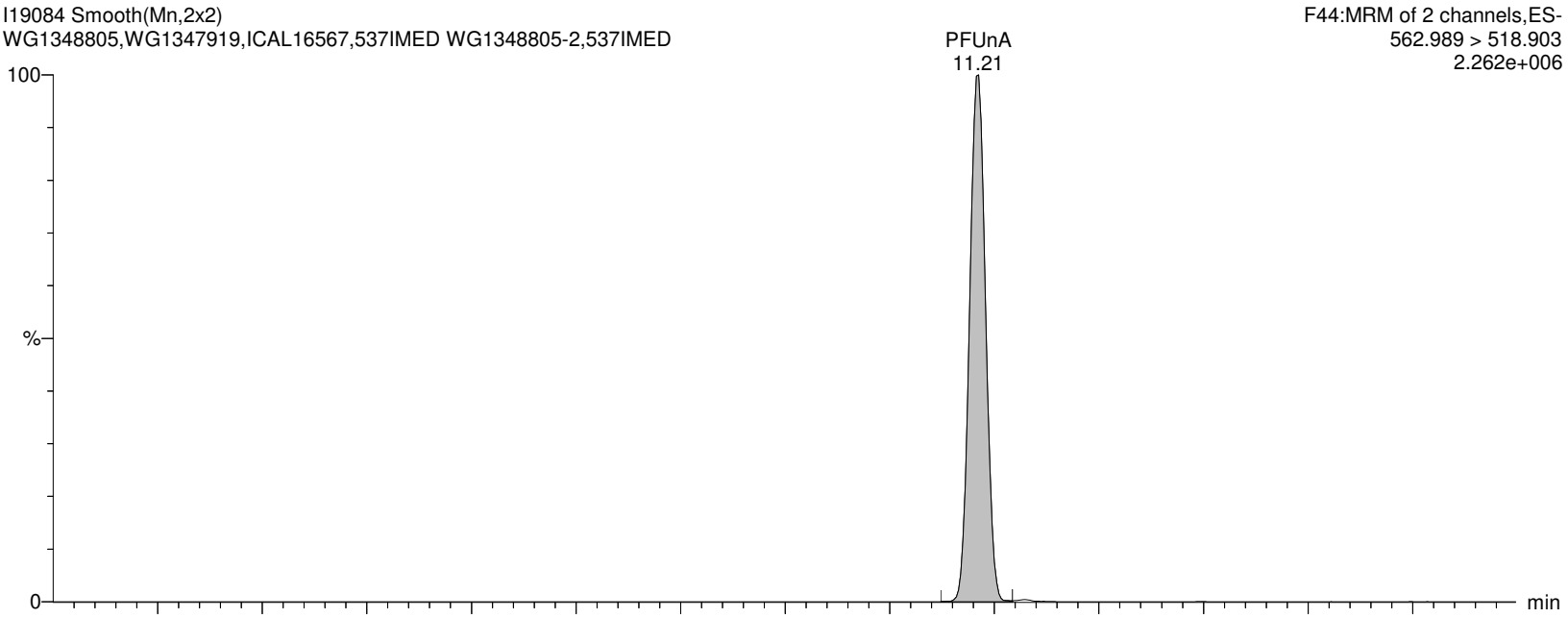

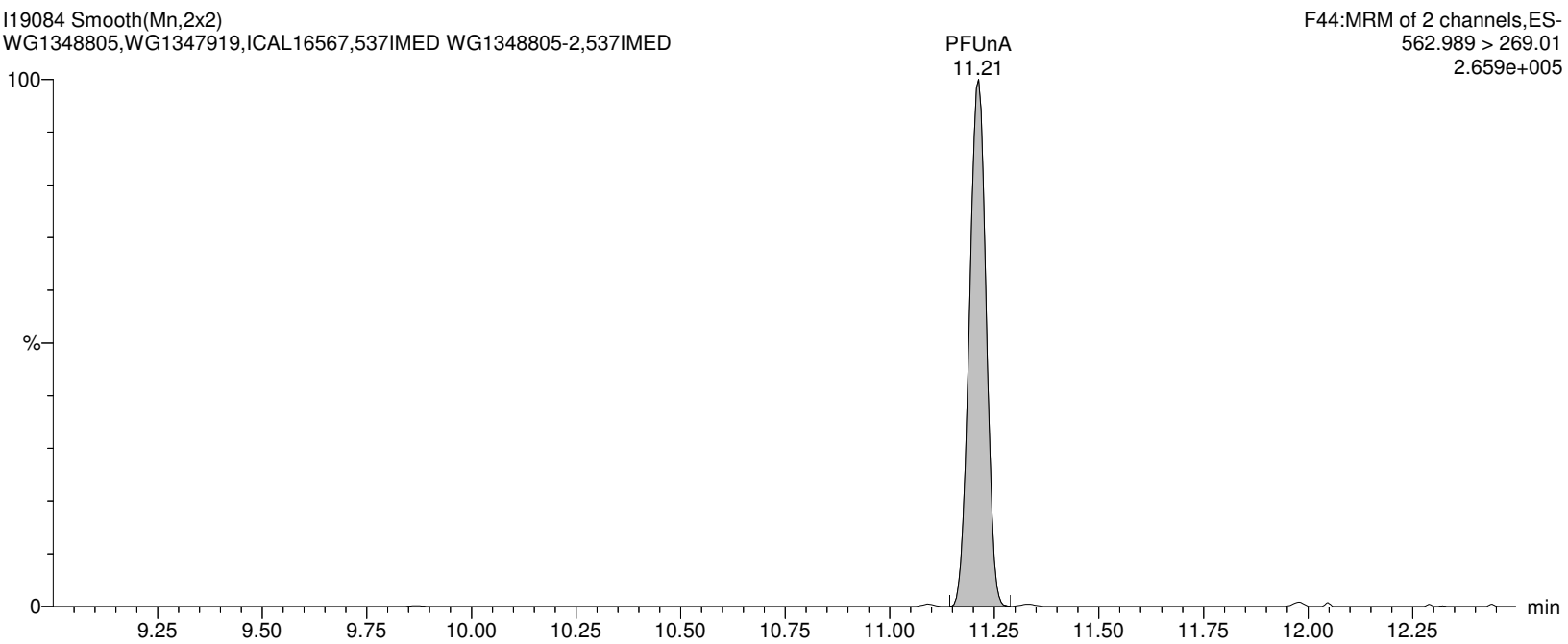

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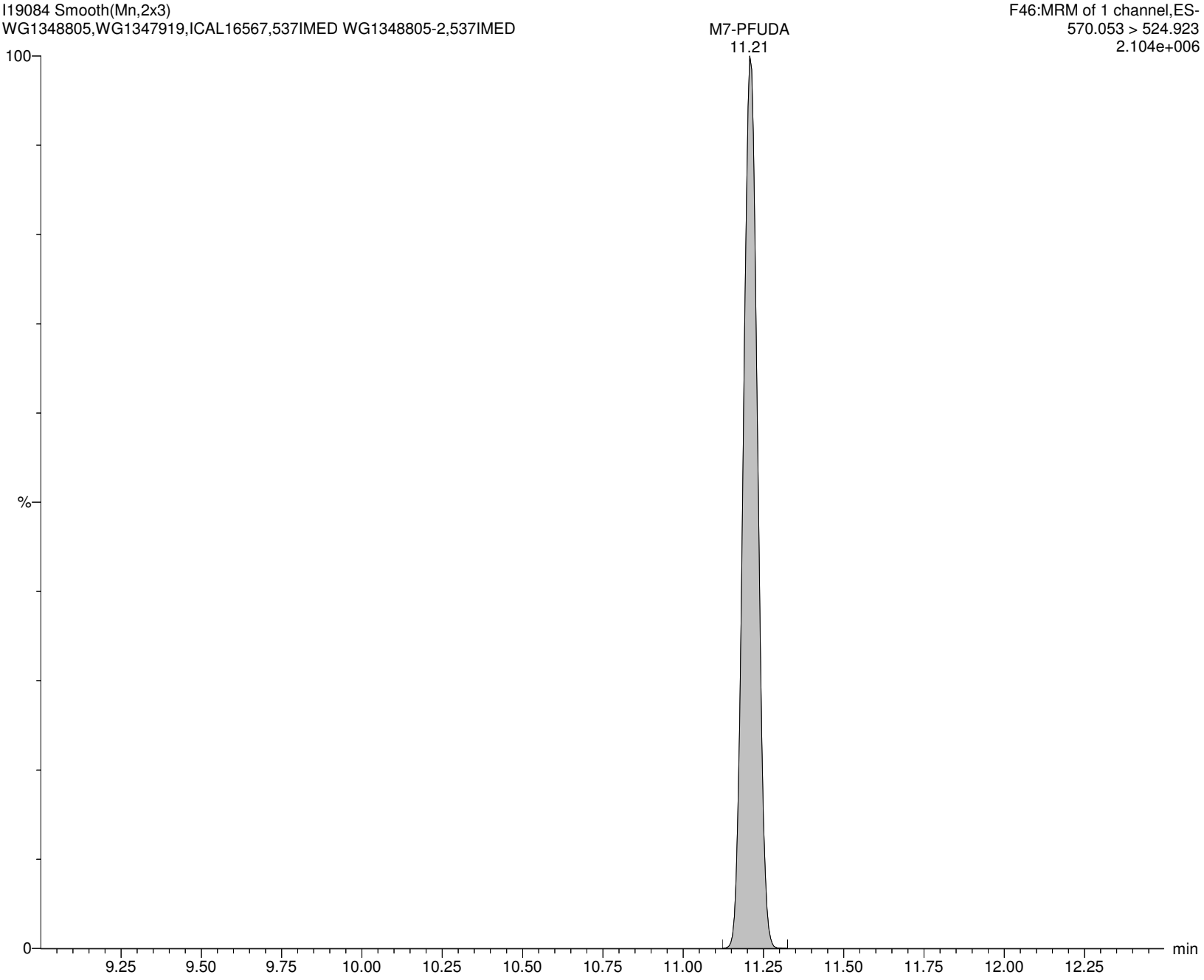

all concentration units in (ng/mL)

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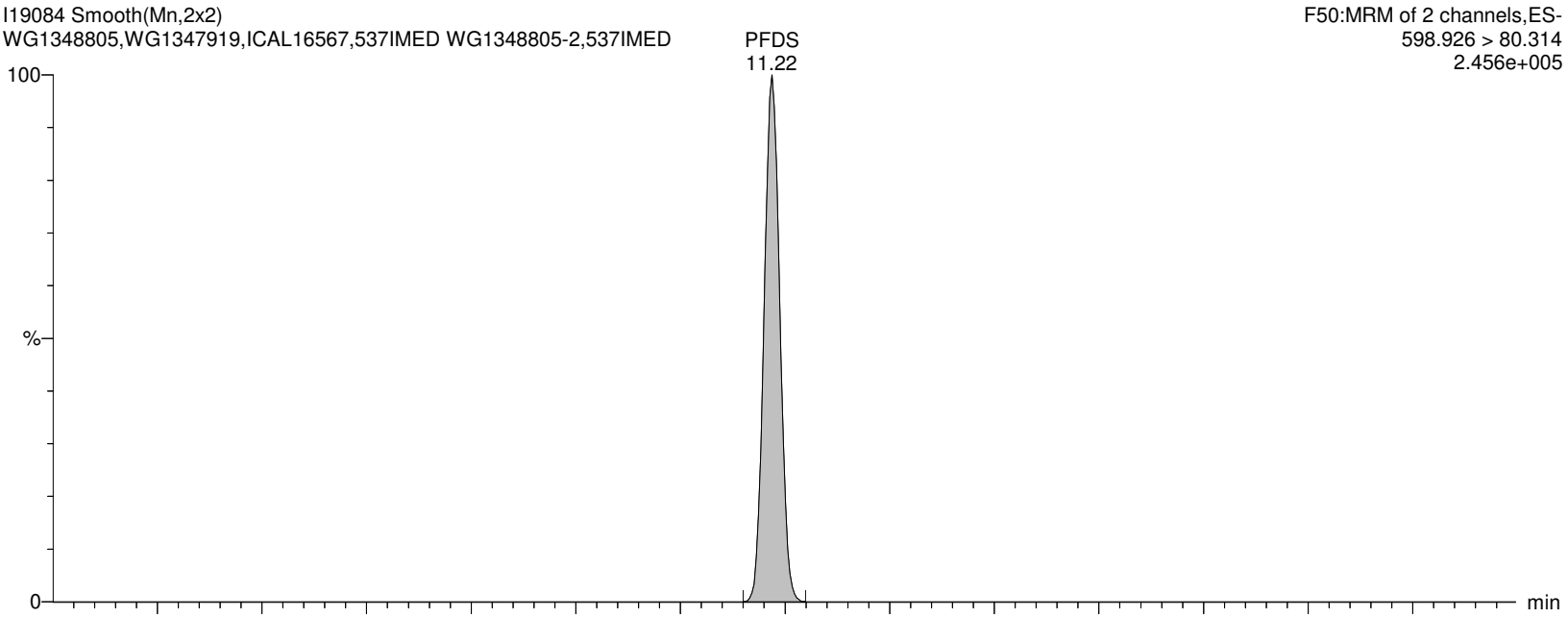

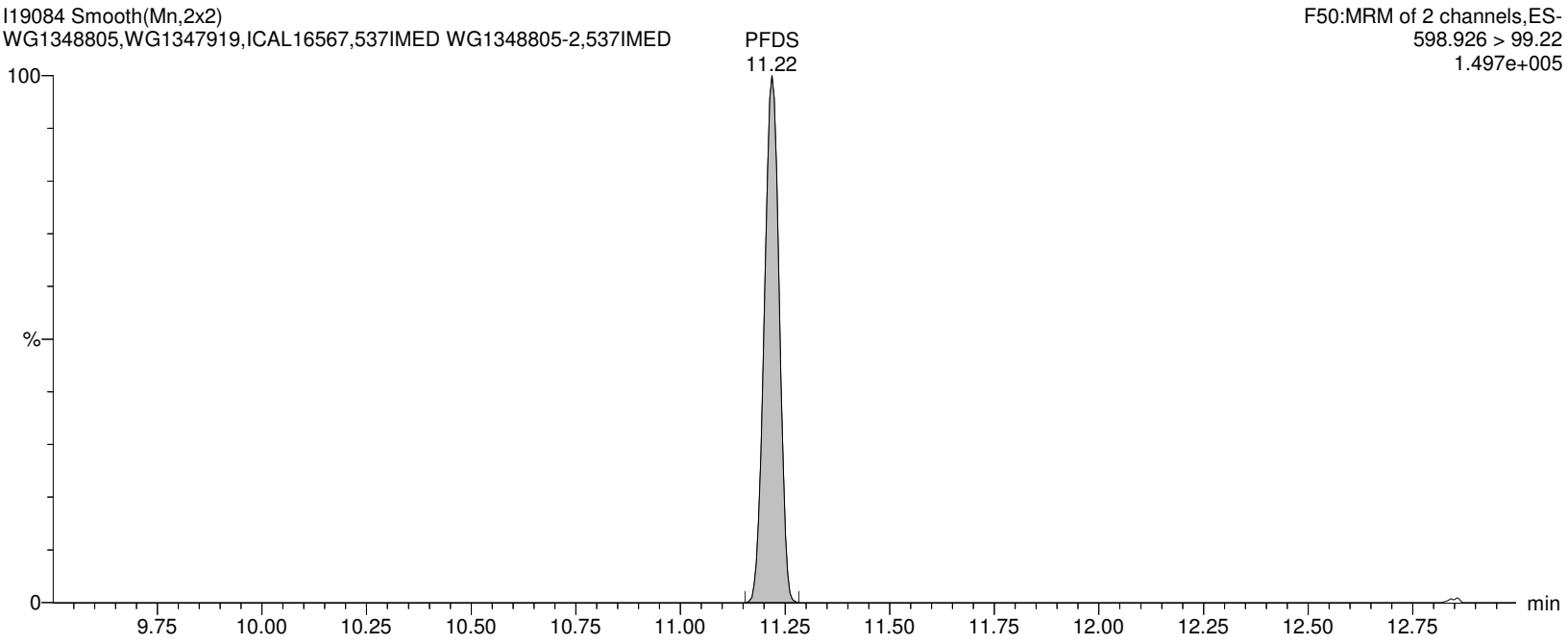

all concentration units in (ng/mL)

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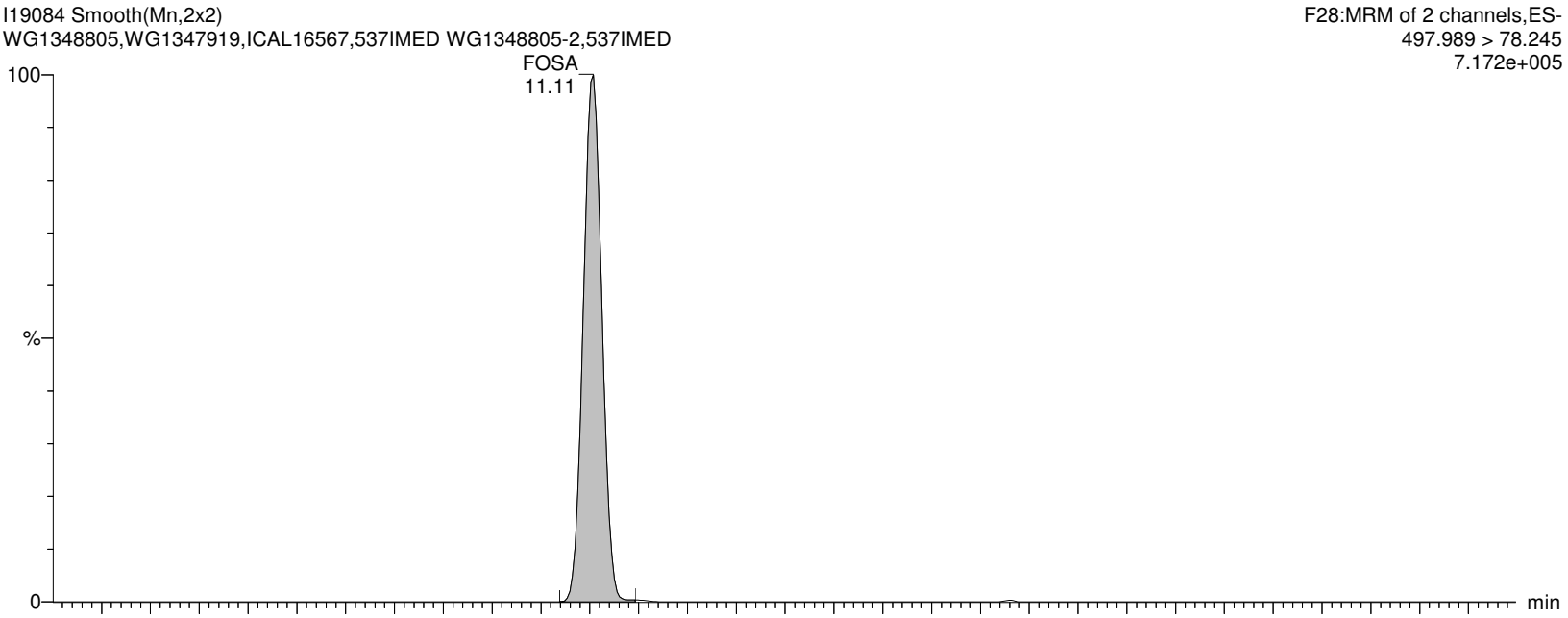

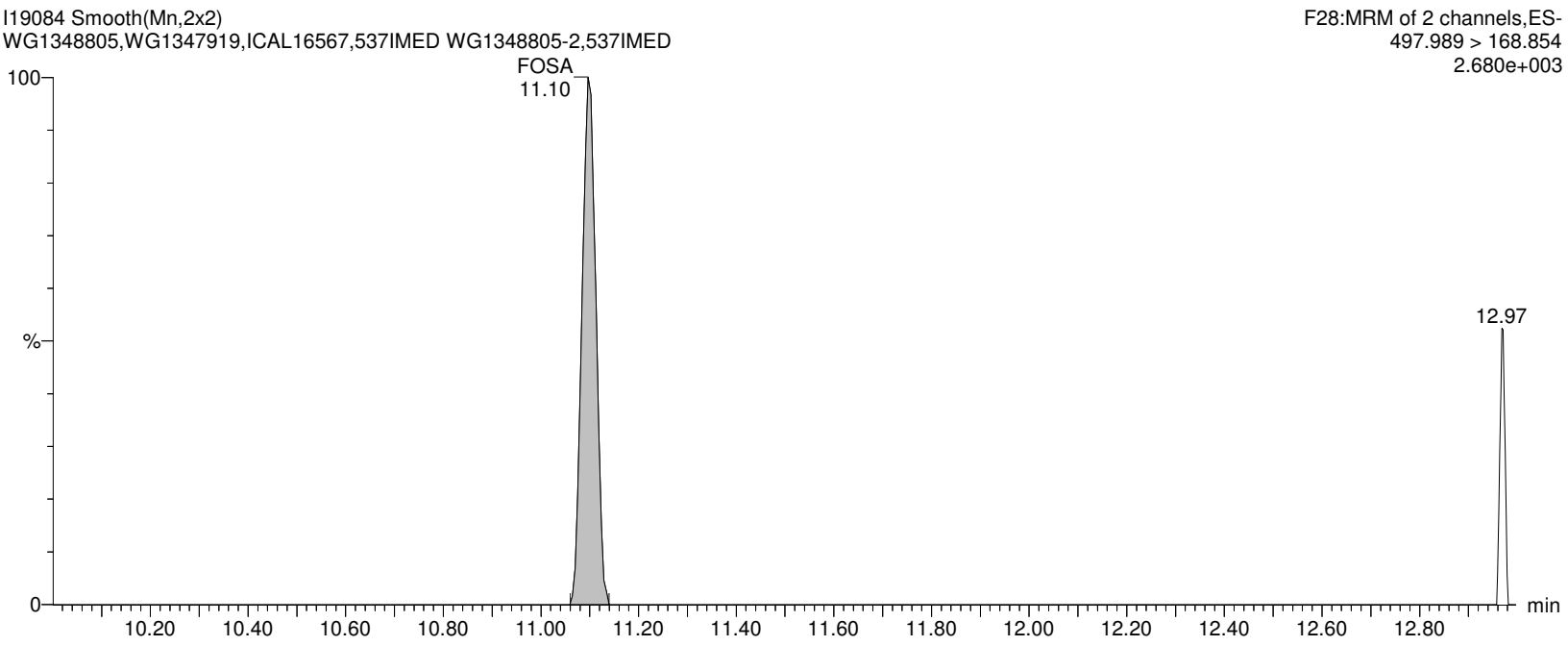

all concentration units in (ng/mL)

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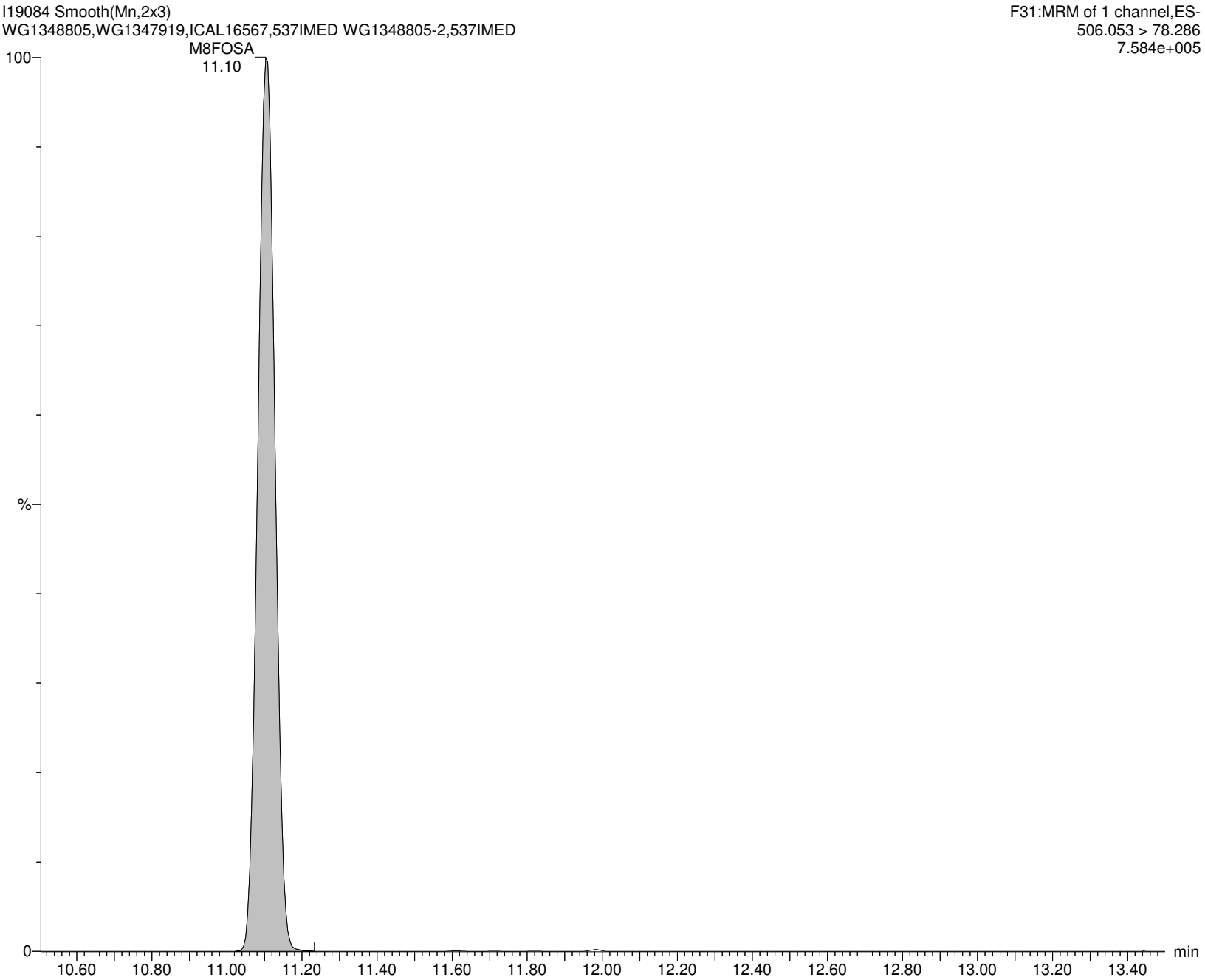

all concentration units in (ng/mL)

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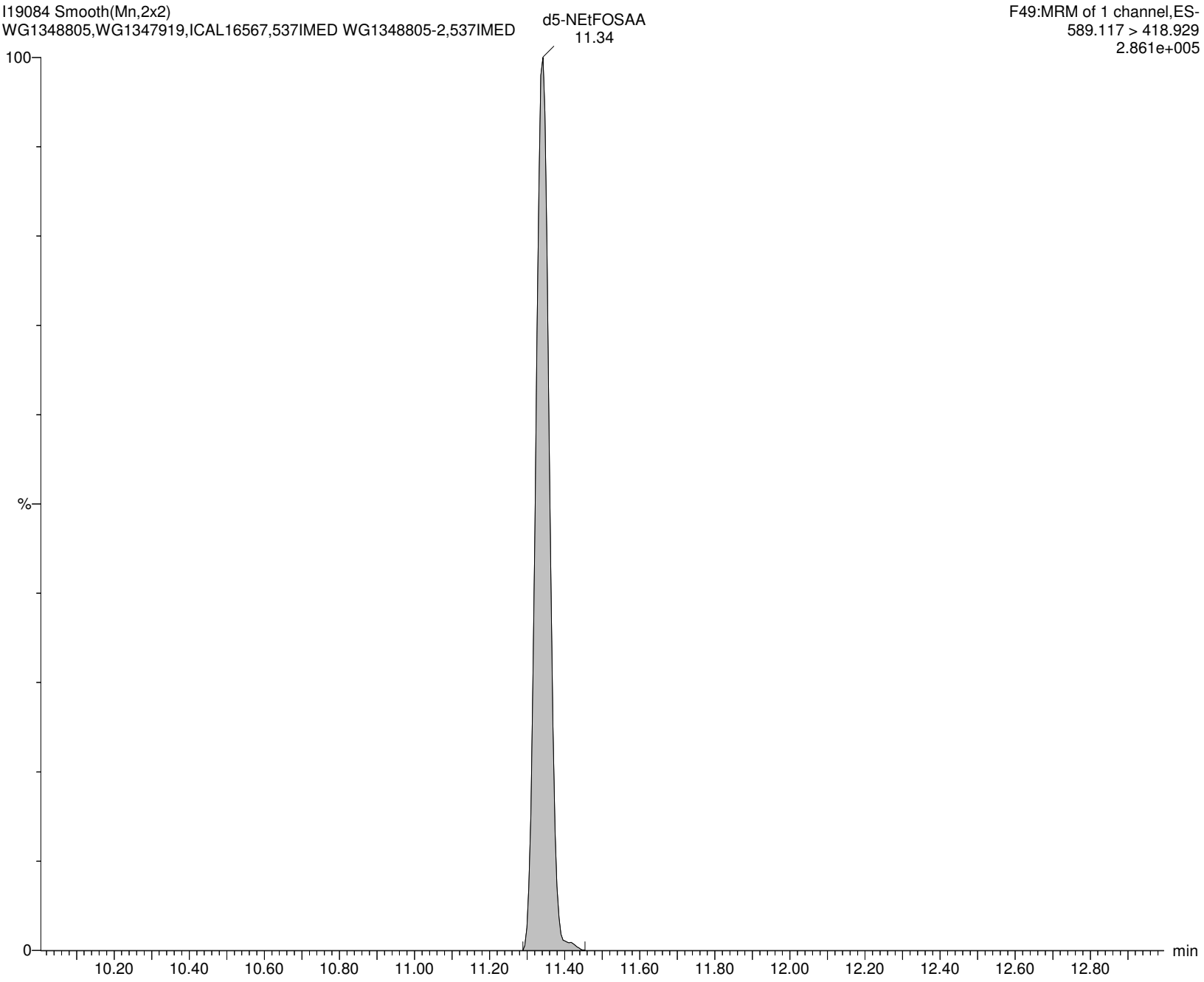

all concentration units in (ng/mL)

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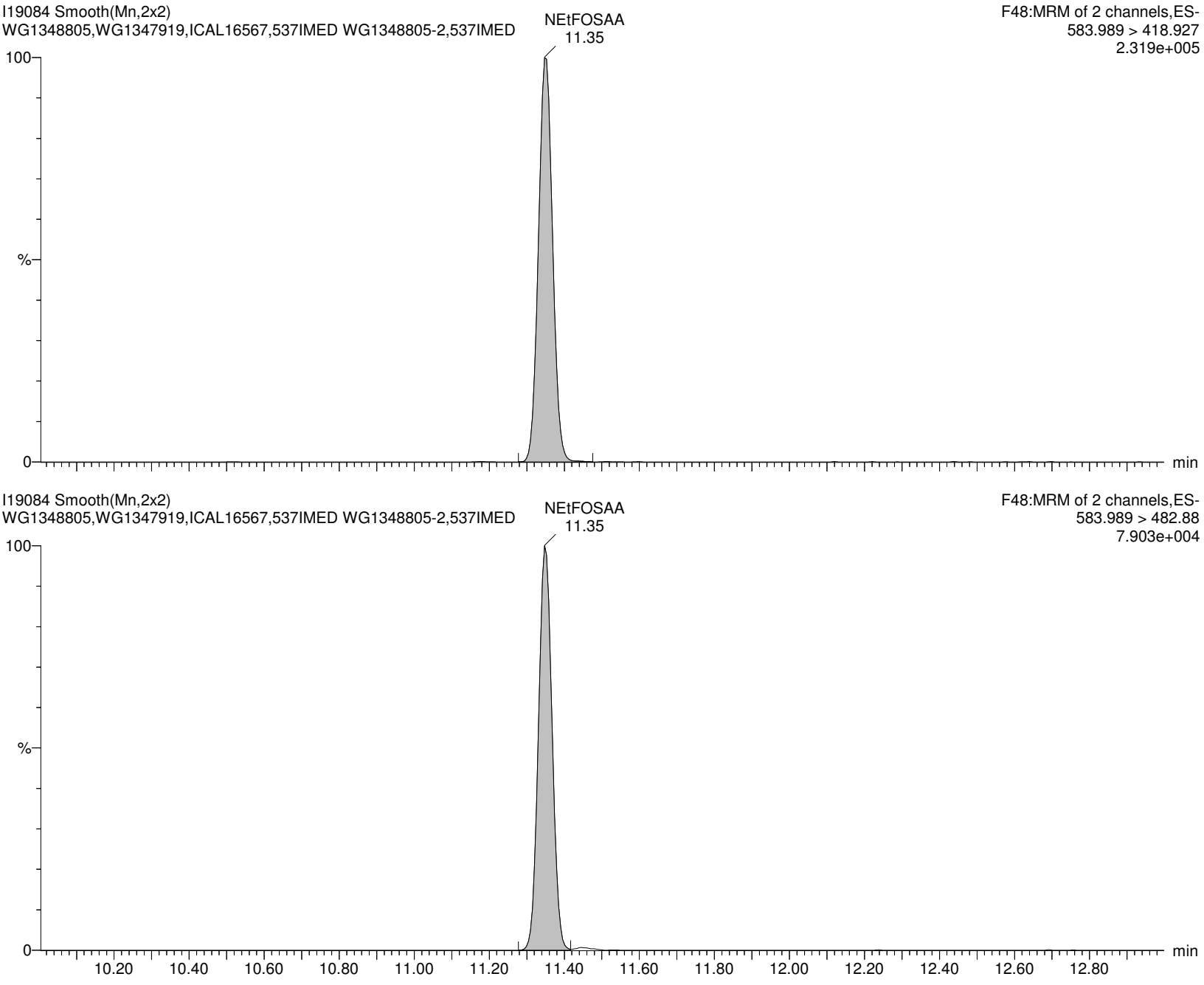

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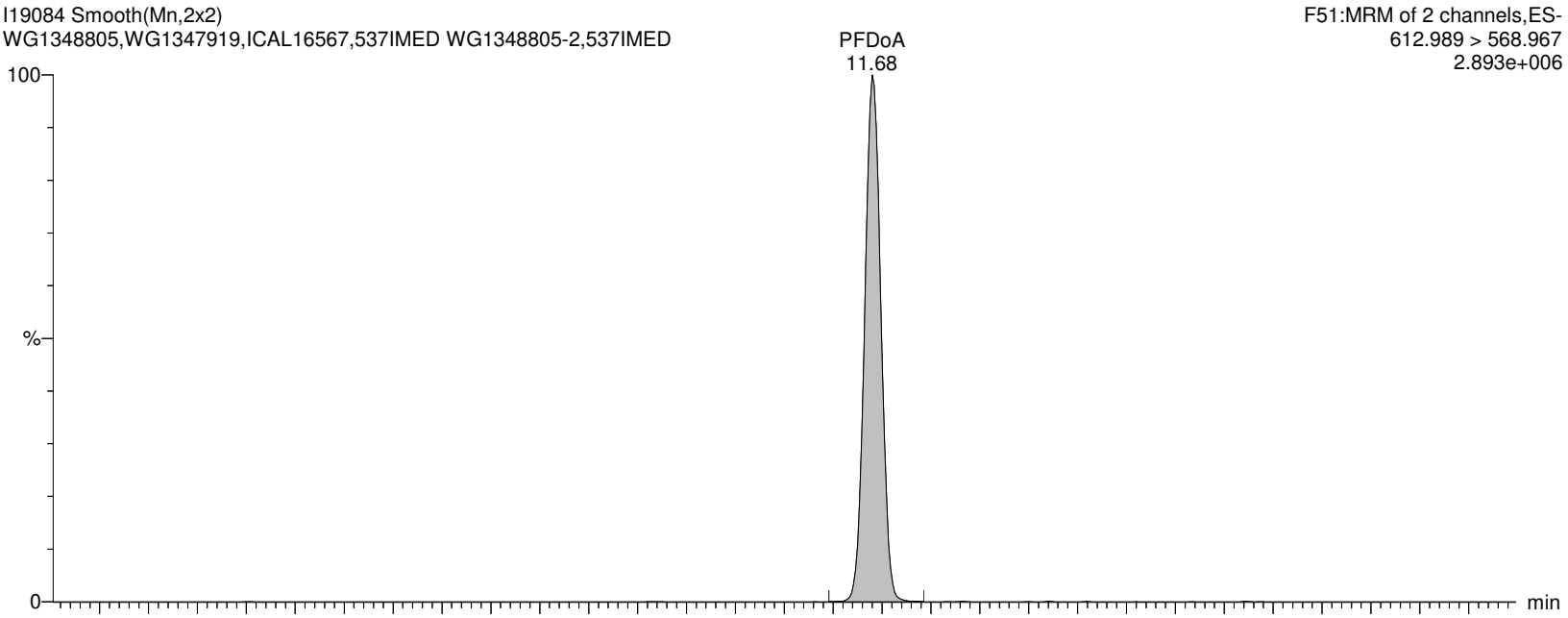

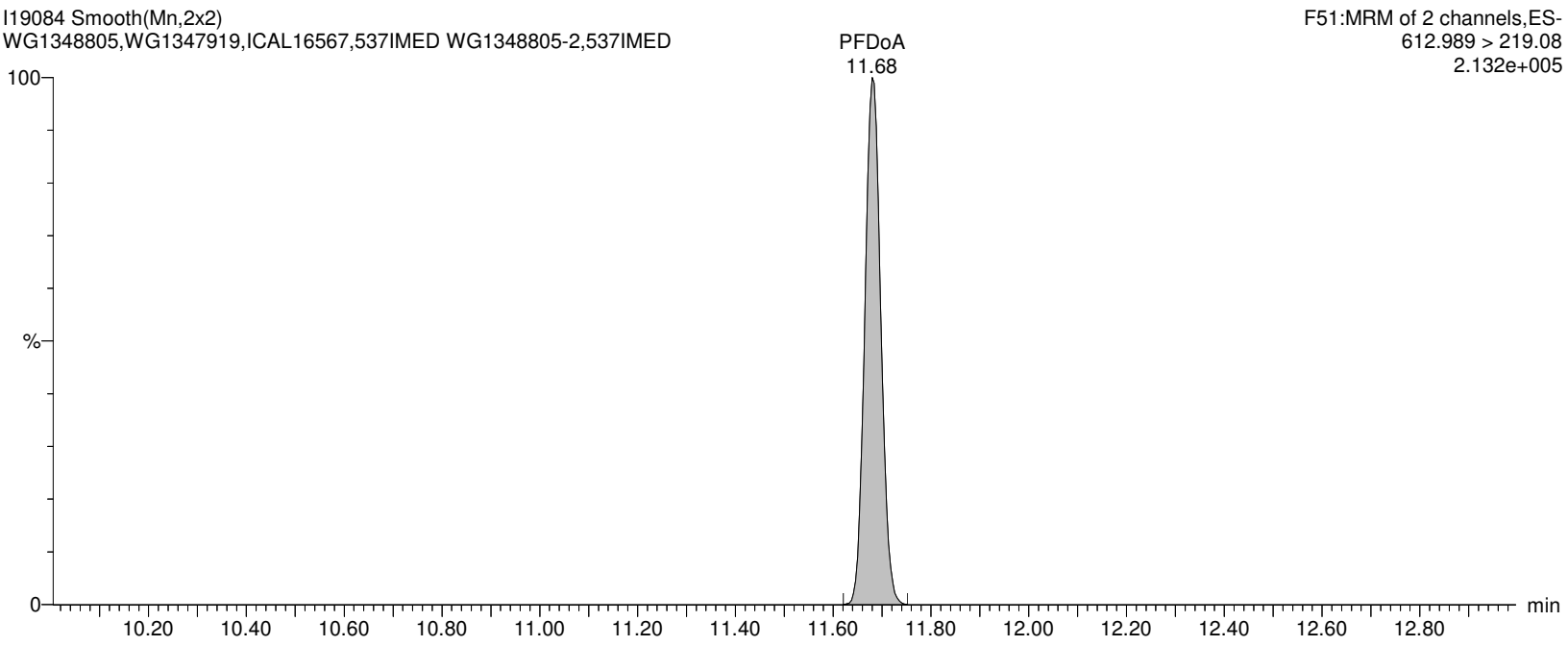

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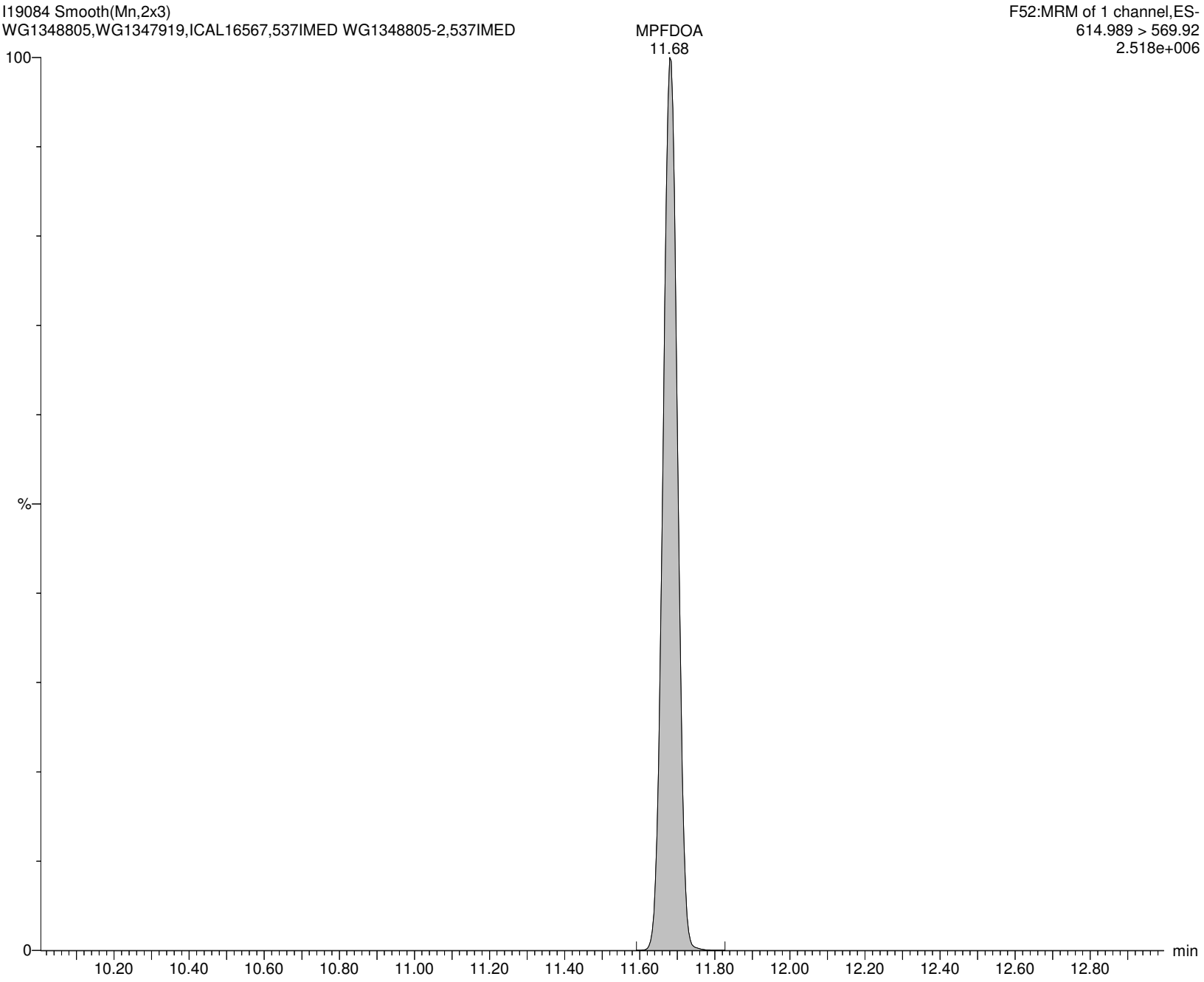

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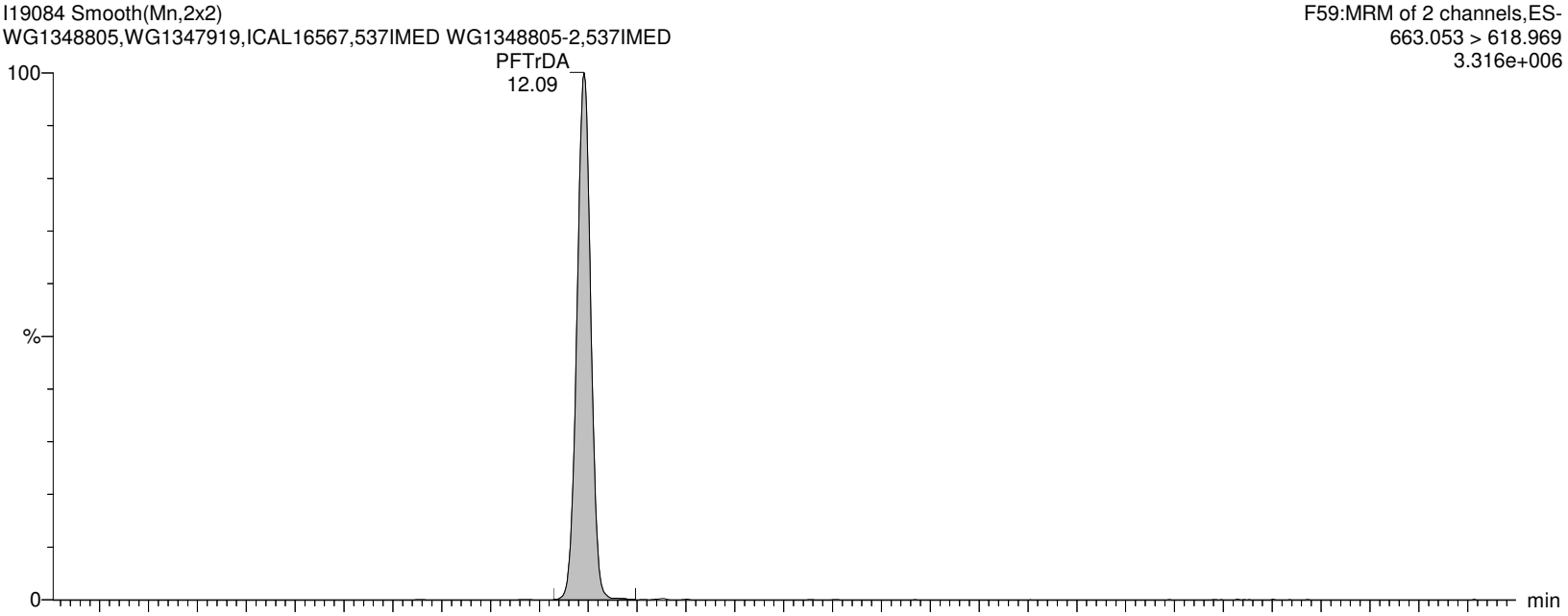

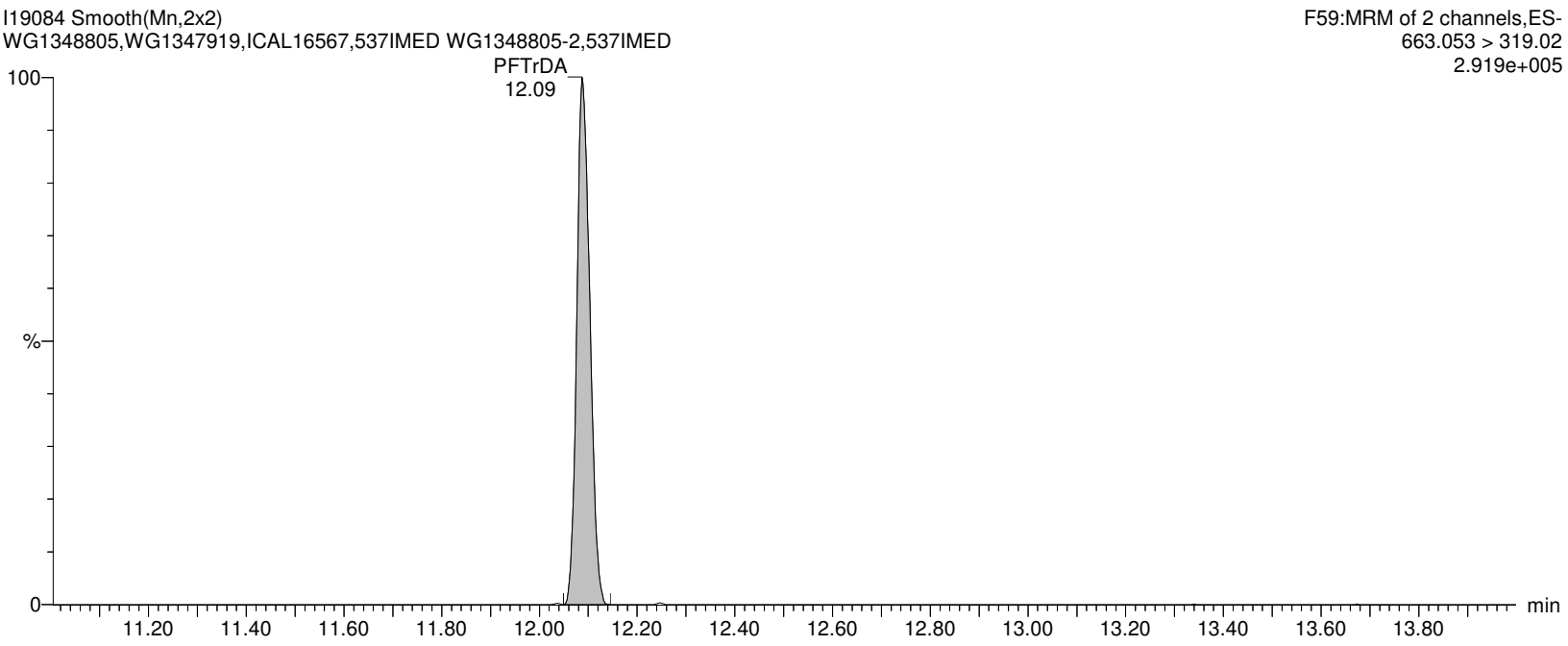

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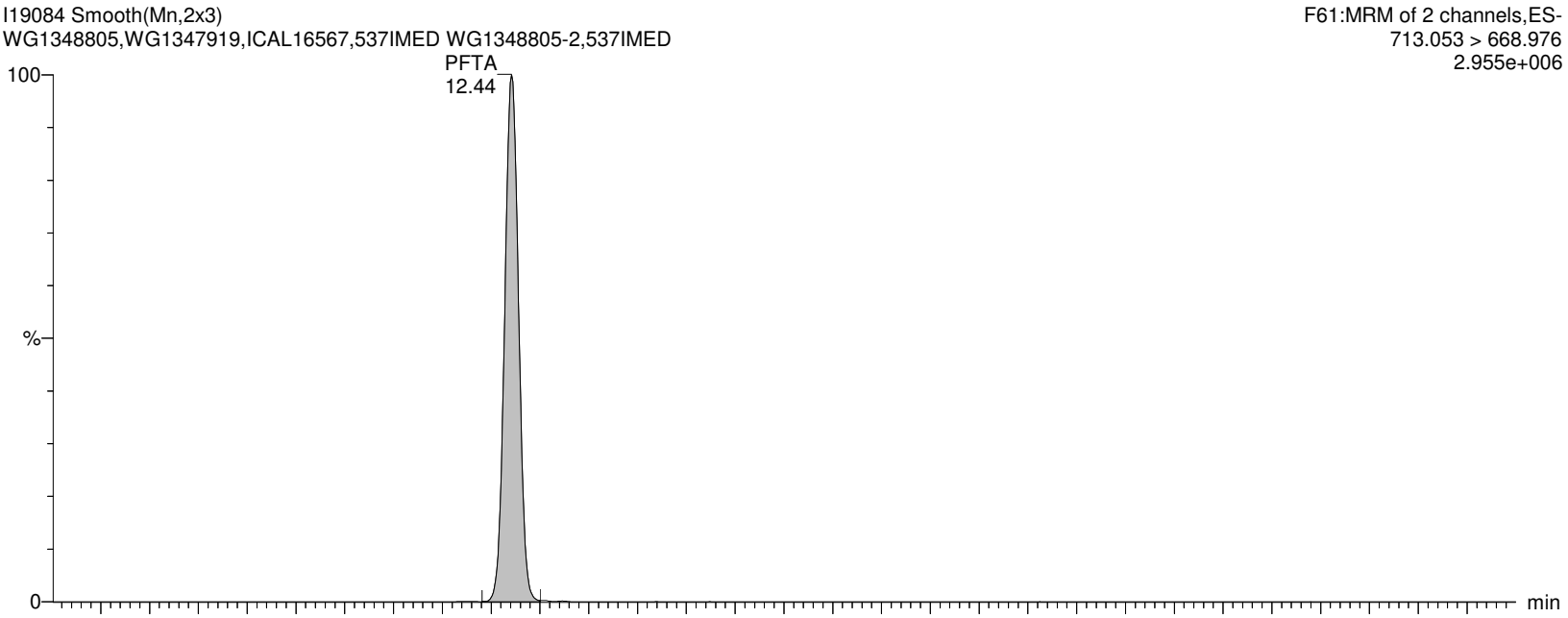

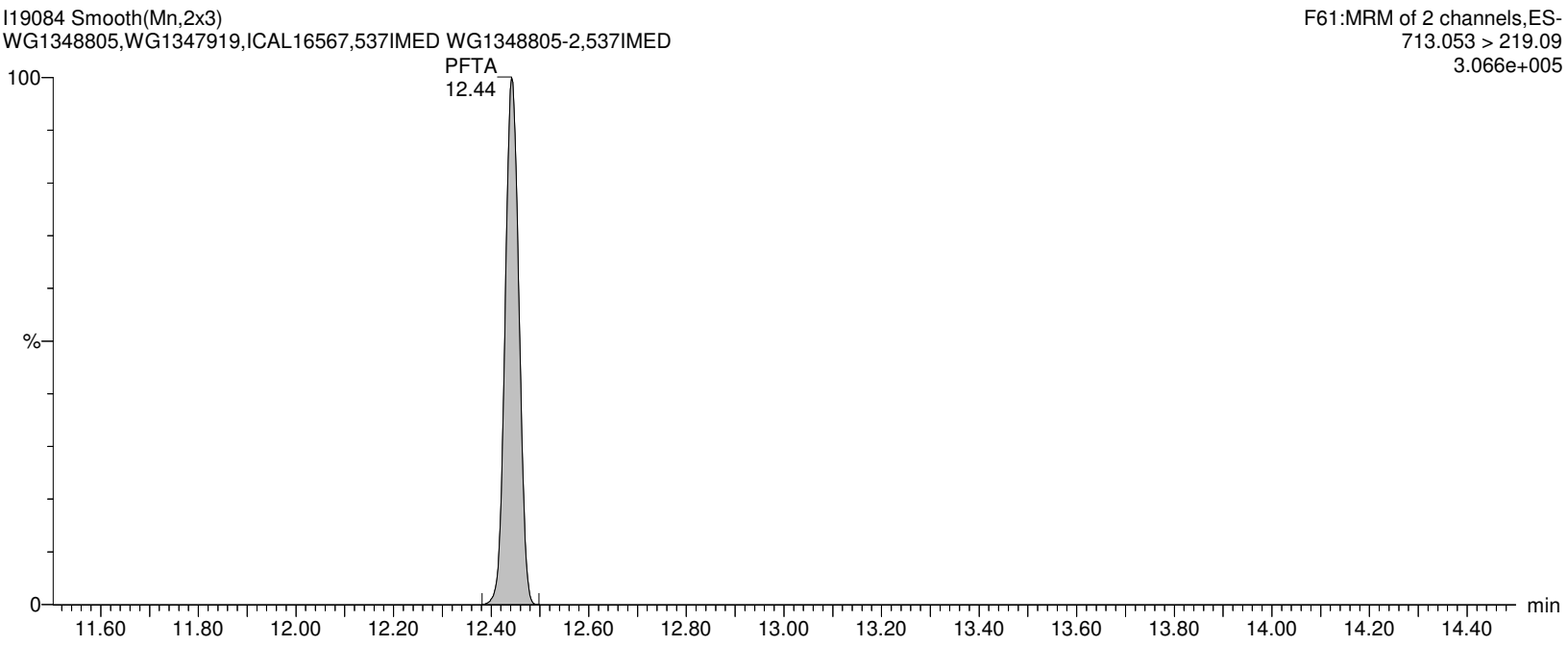

all concentration units in (ng/mL)

Alpha Analytical Inc.
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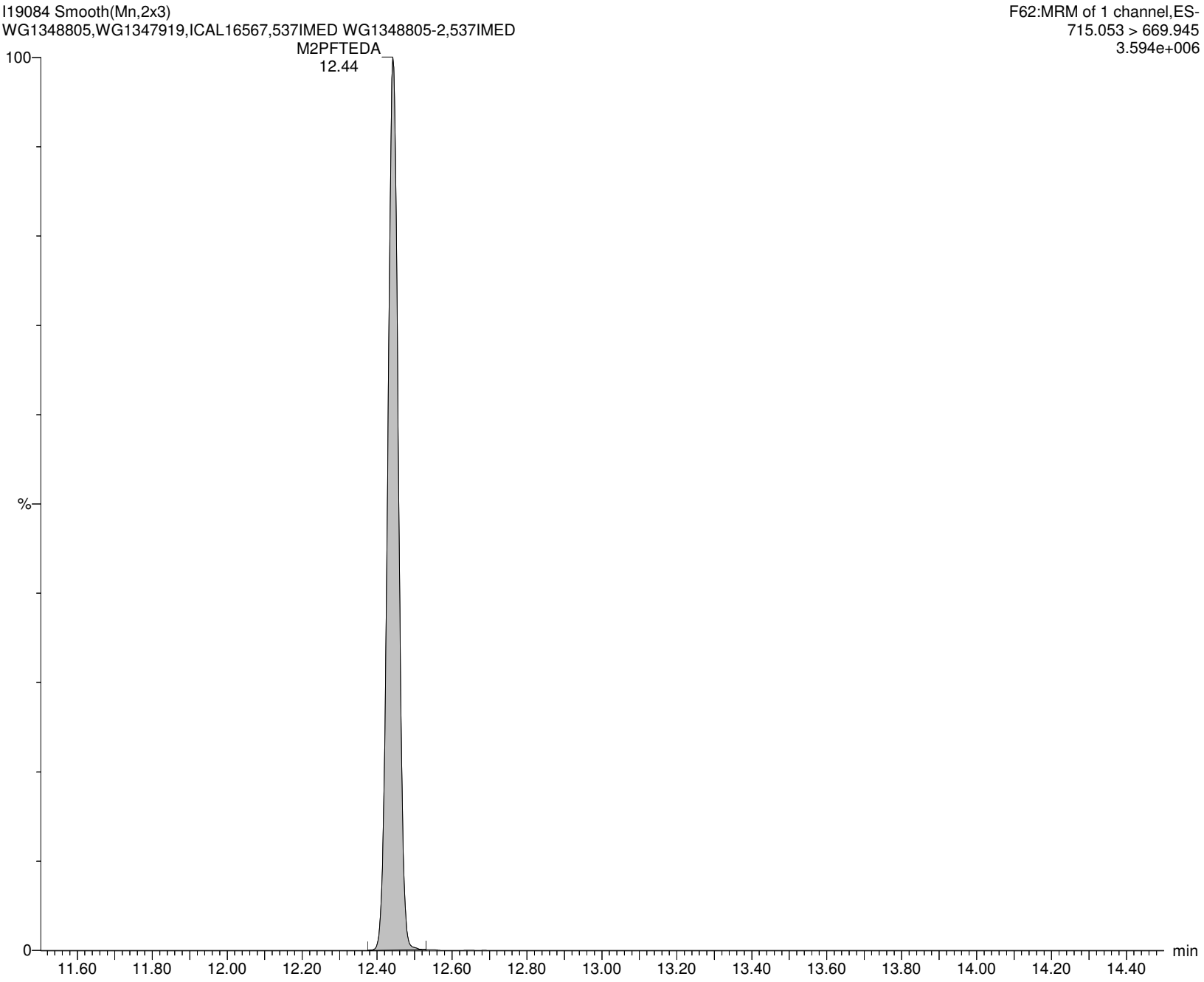
Printed: Tuesday, March 10, 2020 20:08:36 Eastern Daylight Time

Name: I19084
ID: WG1348805-2,537IMED
Date: 09-Mar-2020
Time: 17:03:03
Description: WG1348805,WG1347919,ICAL16567,537IMED
User: LCMS01:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2PFTEDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:10:14 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

ID: WG1348805-3,537ILOW
Name: I19096
Date: 09-Mar-2020
Time: 20:21:47
Description: WG1348805,WG1347546,ICAL16567,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.21	212.926 > 169.111	2065		0.497		na	99.3
2	M3PFBA	INT STD	2.22	215.926 > 172.122	49203		12.513		na	125.1
3	MPFBA	INT STD	2.21	216.926 > 172.137	57432		10.187		na	101.9
4	PFPeA	2706-90-3	5.17	262.926 > 219.002	3024	M4	0.551		na	110.1
5	M5PFPEA	INT STD	5.17	267.989 > 223.081	78943		10.554		na	105.5
6	PFBS	375-73-5	5.84	298.926 > 79.923	617		0.457	1.93	NO	103.3
7	M3PFBS	INT STD	5.84	301.989 > 80.254	14970		9.801		na	98.0
8	4:2FTS	757124-72-4	7.01	326.926 > 306.957	210		0.434	1.49	NO	92.9
9	M2-4:2FTS	INT STD	7.01	329.117 > 309.079	5932		7.455		na	74.5
10	PFHxA	307-24-4	7.09	312.989 > 269.028	4447		0.561	15.21	NO	112.1
11	M5PFHxA	INT STD	7.09	317.989 > 273.045	95679		9.482		na	94.8
12	PFPeS	2706-91-4	7.40	348.926 > 80.251	637		0.485	2.49	NO	103.2
13	PFHpA	375-85-9	8.35	362.926 > 319.014	5189		0.476	5.86	NO	95.2
14	M4PFHpA	INT STD	8.35	366.926 > 321.979	118834		10.152		na	101.5
15	br-PFHxS	355-46-4	8.27	398.904 > 79.915	83	M2	0.082		YES	96.7
16	L-PFHxS	355-46-4	8.51	398.904 > 79.915	469		0.458		YES	123.9
17	PFHxS	355-46-4		398.904 > 79.915	552		0.541		na	
18	M3PFHxS	INT STD	8.50	401.926 > 80.317	13835		10.110		na	101.1
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.29	412.989 > 368.9	5377		0.548	7.78	NO	109.6
21	M2PFOA	INT STD	9.29	415.032 > 369.968	123244		14.649		na	146.5
22	PFOA	335-67-1		412.989 > 368.9	5377		0.548		na	
23	M8PFOA	INT STD	9.29	420.989 > 375.979	114049		9.704		na	97.0
24	6:2FTS	27619-97-2	9.24	426.989 > 406.921	73		0.611	0.68	NO	128.7
25	M2-6:2FTS	INT STD	9.25	428.989 > 408.917	5030		10.158		na	101.6
26	PFHpS	375-92-8	9.38	448.926 > 80.257	222		0.285	0.82	NO	60.0
27	PFNA	375-95-1	10.03	462.989 > 418.931	4835		0.558	6.32	YES	111.6
28	M9PFNA	INT STD	10.03	472.053 > 426.947	116499		10.139		na	101.4
29	br-PFOS	1763-23-1	9.89	498.968 > 79.918	164		0.143	5.12	NO	142.8
30	L-PFOS	1763-23-1	10.08	498.968 > 79.918	368		0.438	1.35	NO	120.0
31	PFOS	1763-23-1		498.968 > 79.918	532		0.581		na	
32	M4PFOS	INT STD	10.08	503.032 > 80.306	11906		14.017		na	140.2
33	M8PFOS	INT STD	10.08	507.053 > 80.294	15582		11.270		na	112.7
34	PFDA	335-76-2	10.66	513.053 > 468.906	5082	M4	0.595	11.70	YES	119.0
35	M2PFDA	INT STD	10.66	515.053 > 469.934	104454		15.791		na	157.9
36	M6PFDA	INT STD	10.66	519.053 > 473.931	111479		9.700		na	97.0
37	8:2FTS	39108-34-4	10.64	527.032 > 507.079	118		0.627	1.90	NO	130.7
38	M2-8:2FTS	INT STD	10.65	529.053 > 508.945	2815		9.400		na	94.0
39	PFNS	68259-12-1	10.67	548.989 > 80.249	428		0.407	5.33	YES	84.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:10:14 Eastern Daylight Time

ID: WG1348805-3,537ILOW
Name: I19096
Date: 09-Mar-2020
Time: 20:21:47
Description: WG1348805,WG1347546,ICAL16567,537ILOW
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.03	573.096 > 418.987	15113		9.927		na	99.3
41	NMeFOSAA	2355-31-9	11.04	570.053 > 418.917	581		0.643	2.77	NO	128.6
42	PFUnA	2058-94-8	11.20	562.989 > 518.903	5287	M4	0.496	9.08	NO	99.1
43	M7-PFUDA	INT STD	11.19	570.053 > 524.923	114566		11.345		na	113.4
44	PFDS	335-77-3	11.21	598.926 > 80.314	336		0.328	4.73	YES	68.0
45	FOSA	754-91-6	11.09	497.989 > 78.245	1997		0.619		YES	123.7
46	M8FOSA	INT STD	11.09	506.053 > 78.286	39175		8.506		na	85.1
47	d5-NEtFOSAA	INT STD	11.33	589.117 > 418.929	11097		9.996		na	100.0
48	NEtFOSAA	2991-50-6	11.33	583.989 > 418.927	362		0.382	2.55	NO	76.4
49	PFDoA	307-55-1	11.66	612.989 > 568.967	5287		0.552	19.73	YES	110.5
50	MPFDOA	INT STD	11.66	614.989 > 569.92	105436		9.711		na	97.1
51	PFTrDA	72629-94-8	12.07	663.053 > 618.969	5267		0.550	15.72	NO	109.9
52	PFTA	376-06-7	12.43	713.053 > 668.976	4146		0.493	10.58	NO	98.6
53	M2PFTEDA	INT STD	12.43	715.053 > 669.945	113524		9.277		na	92.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:10:14 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

Name: I19096
ID: WG1348805-3,537ILOW
Date: 09-Mar-2020
Time: 20:21:47
Description: WG1348805,WG1347546,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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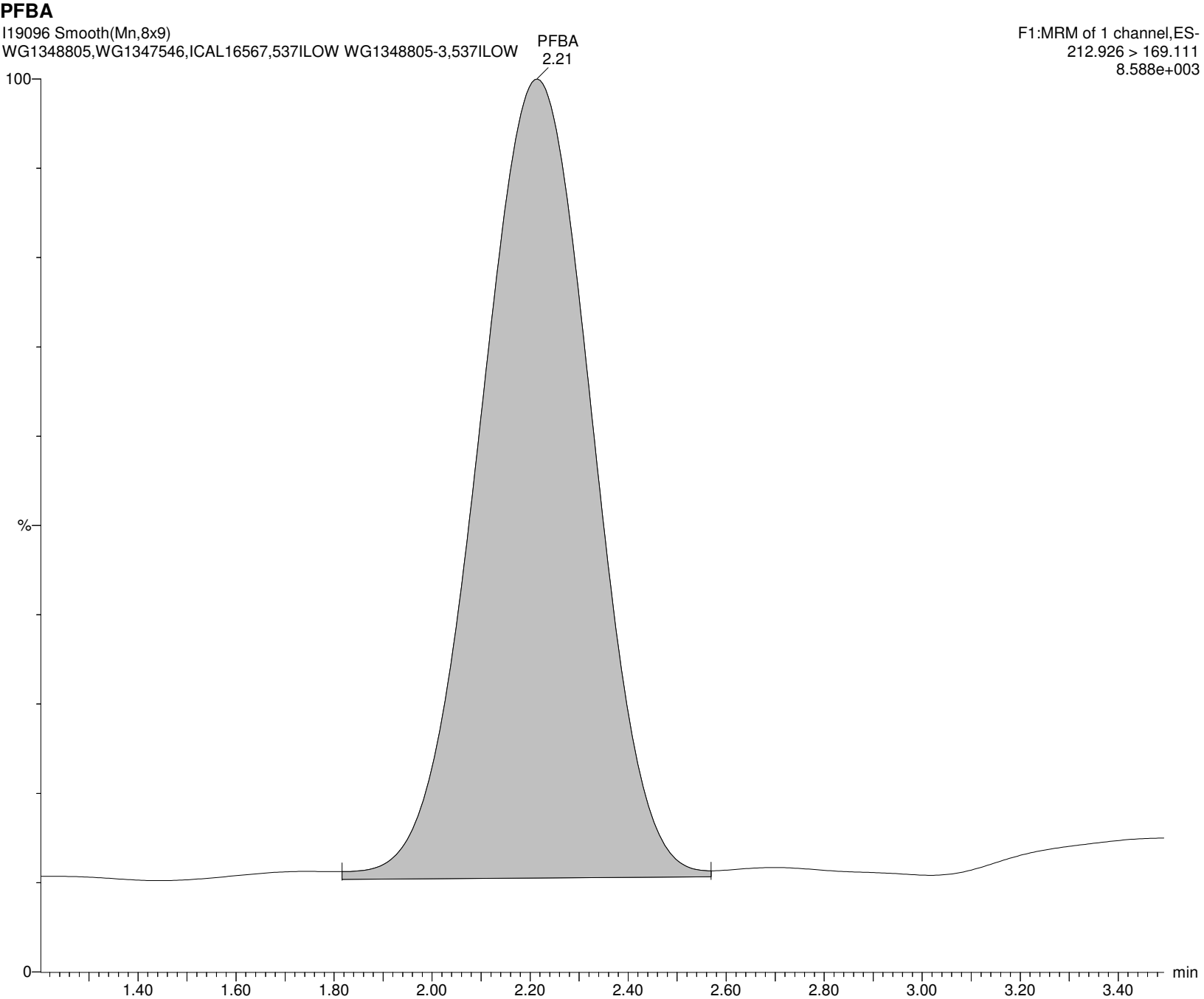

all concentration units in (ng/mL)

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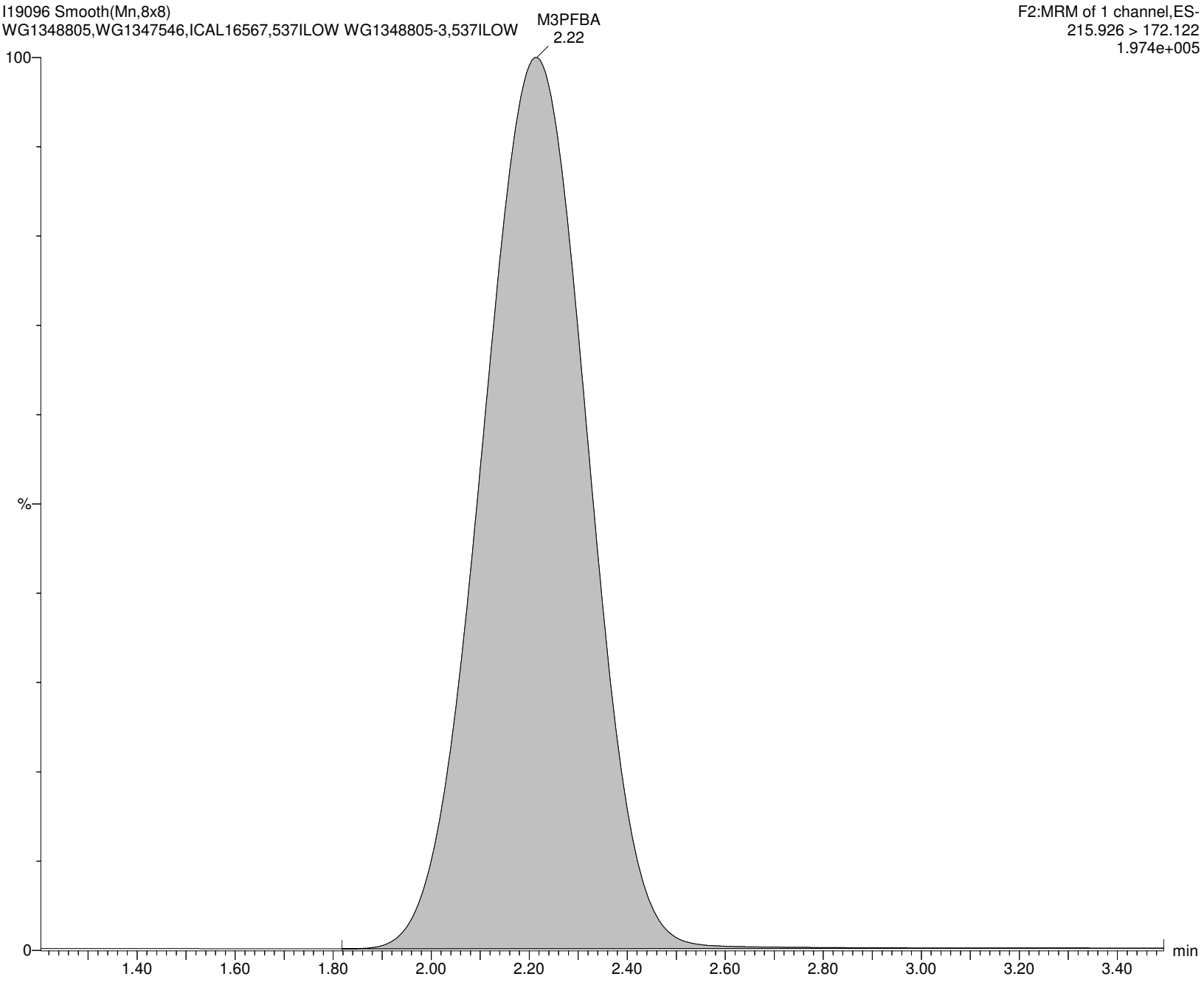
M3PFBA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I19096
ID: WG1348805-3,537ILOW
Date: 09-Mar-2020
Time: 20:21:47
Description: WG1348805,WG1347546,ICAL16567,537ILOW
User: LCMS01:JW
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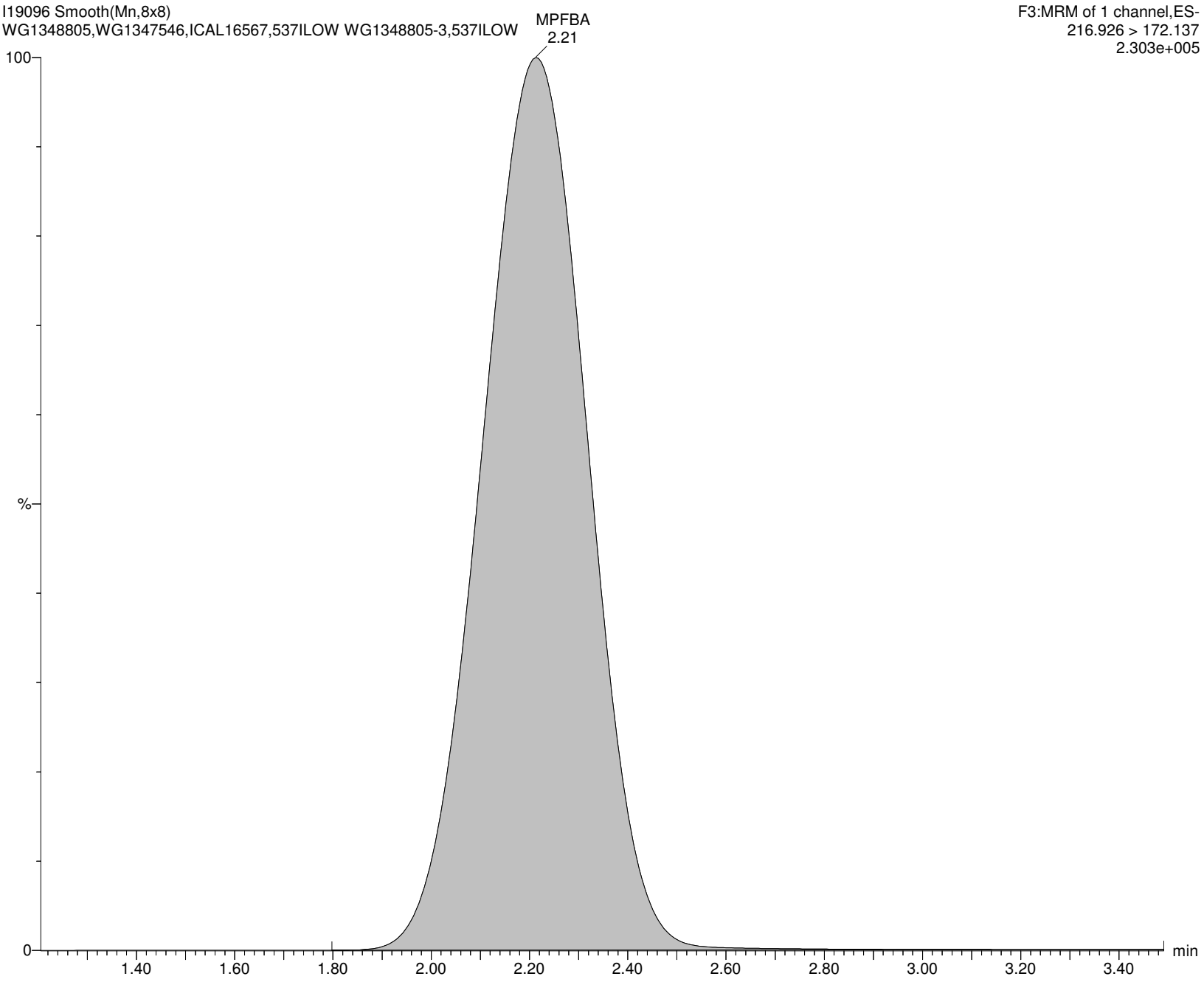

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 09-Mar-2020
Time: 20:21:47
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User: LCMS01:JW
Vial: 1:A,2
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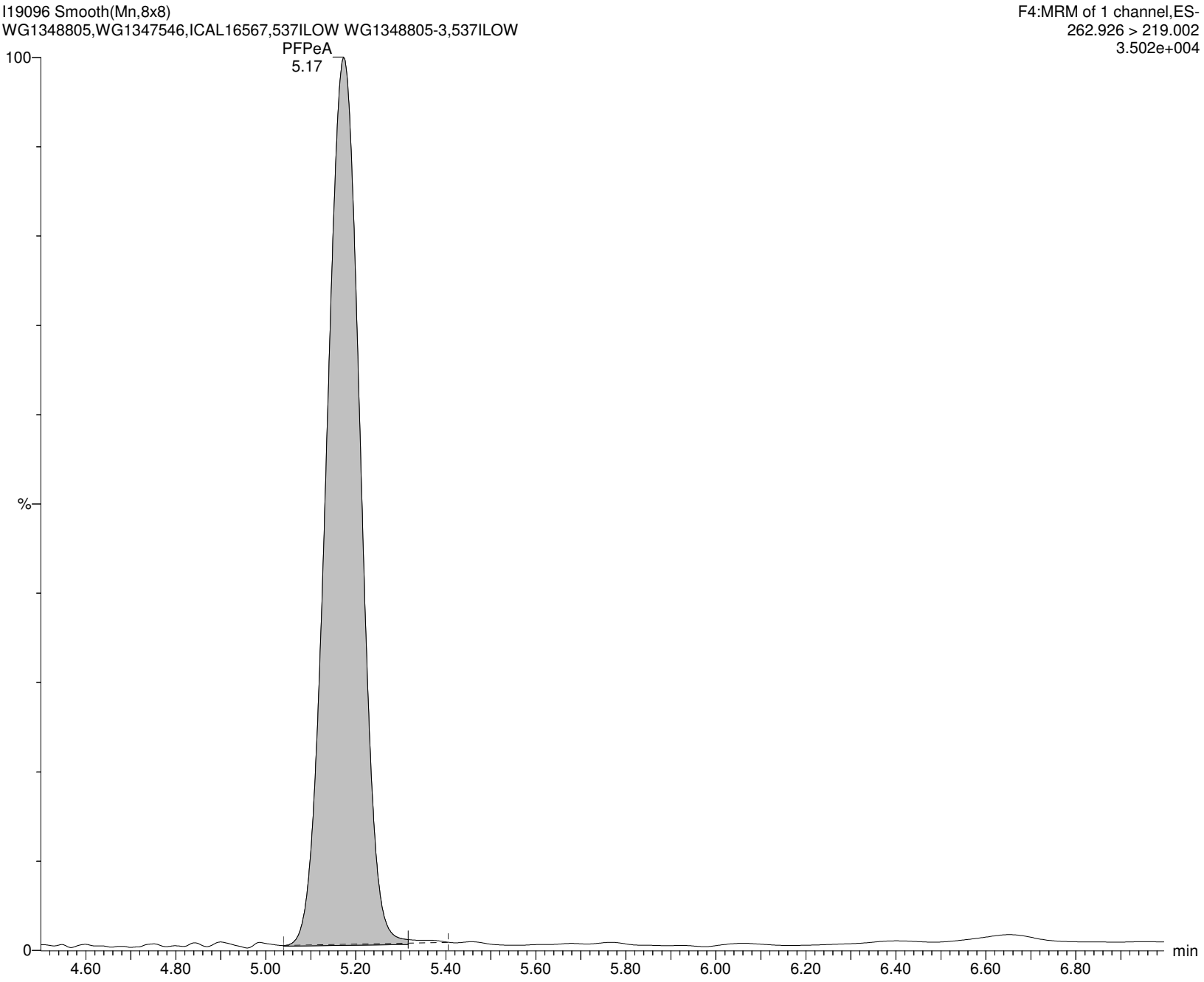
PFPeA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
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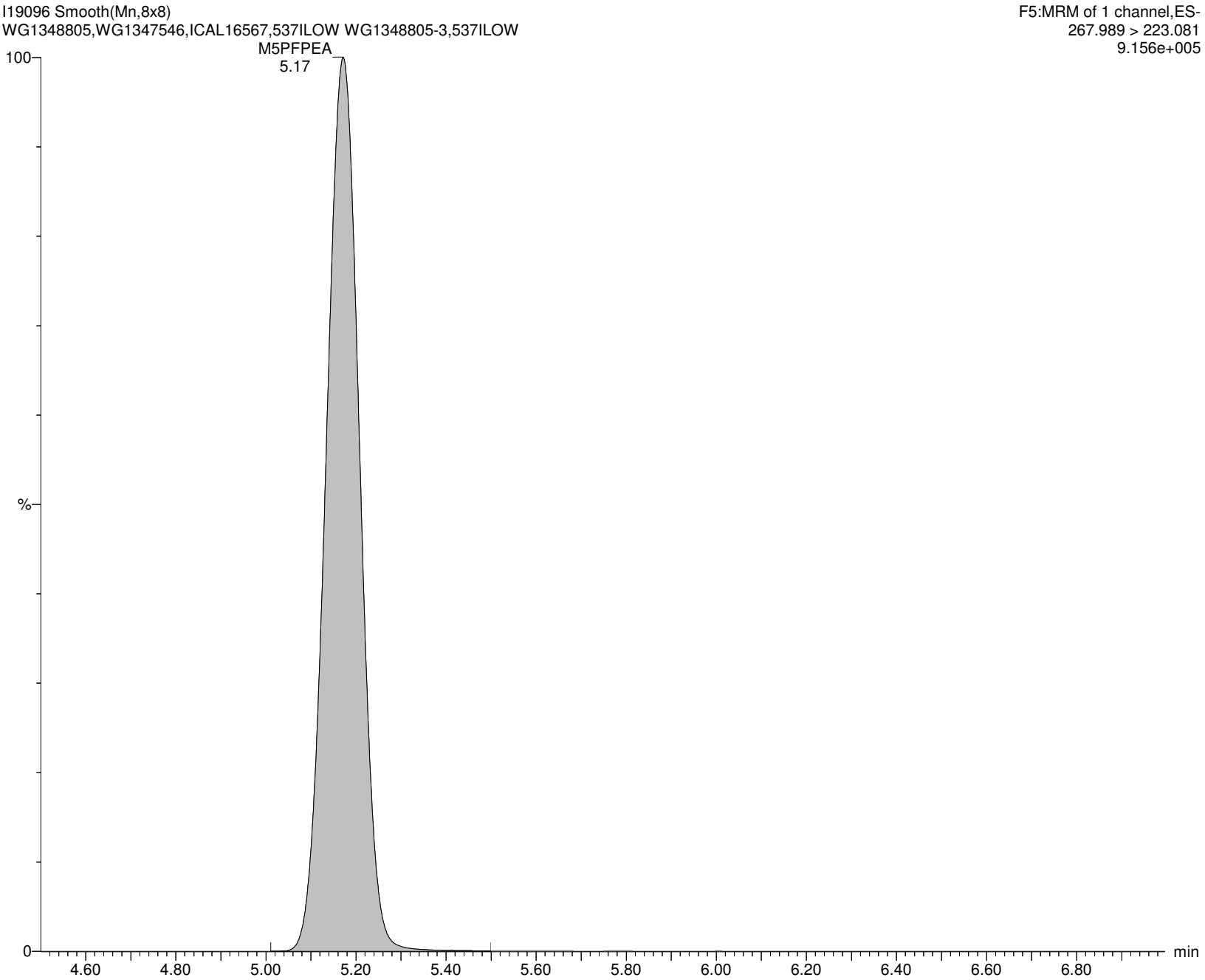
M5PFPEA



all concentration units in (ng/mL)

Alpha Analytical Inc.
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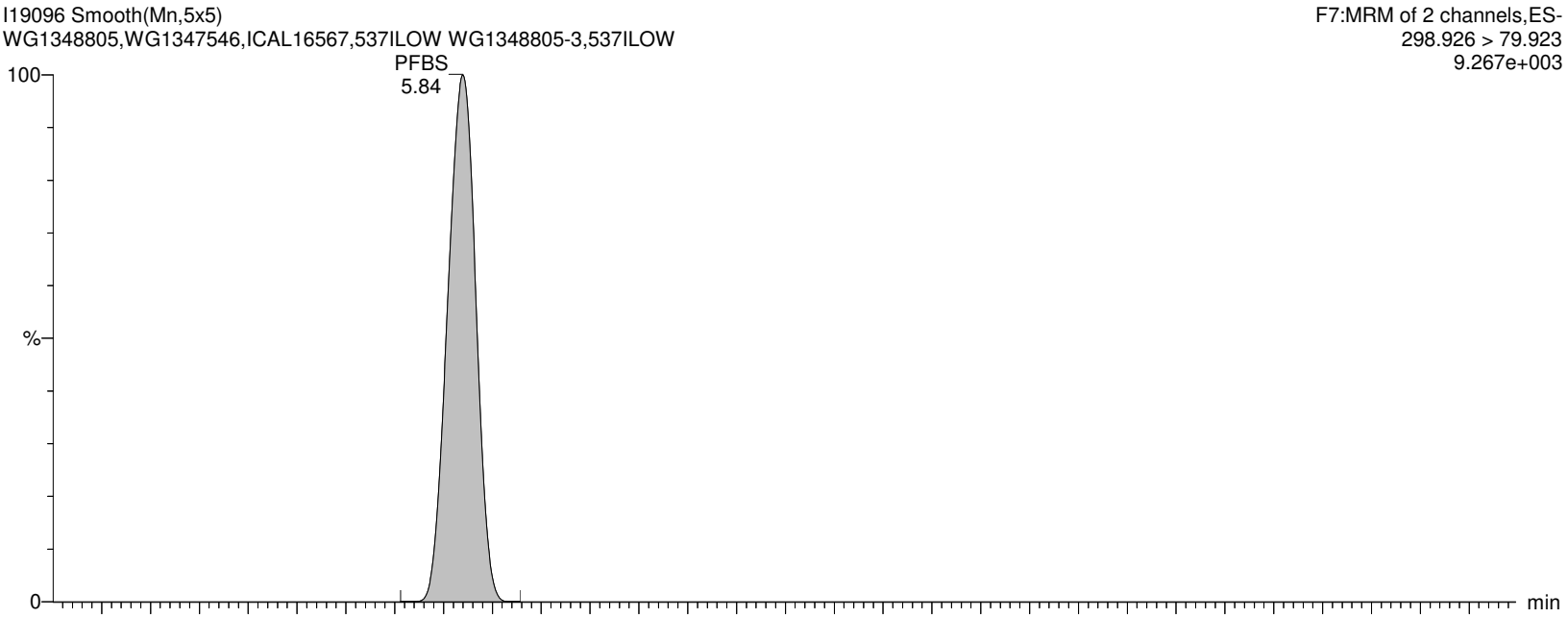
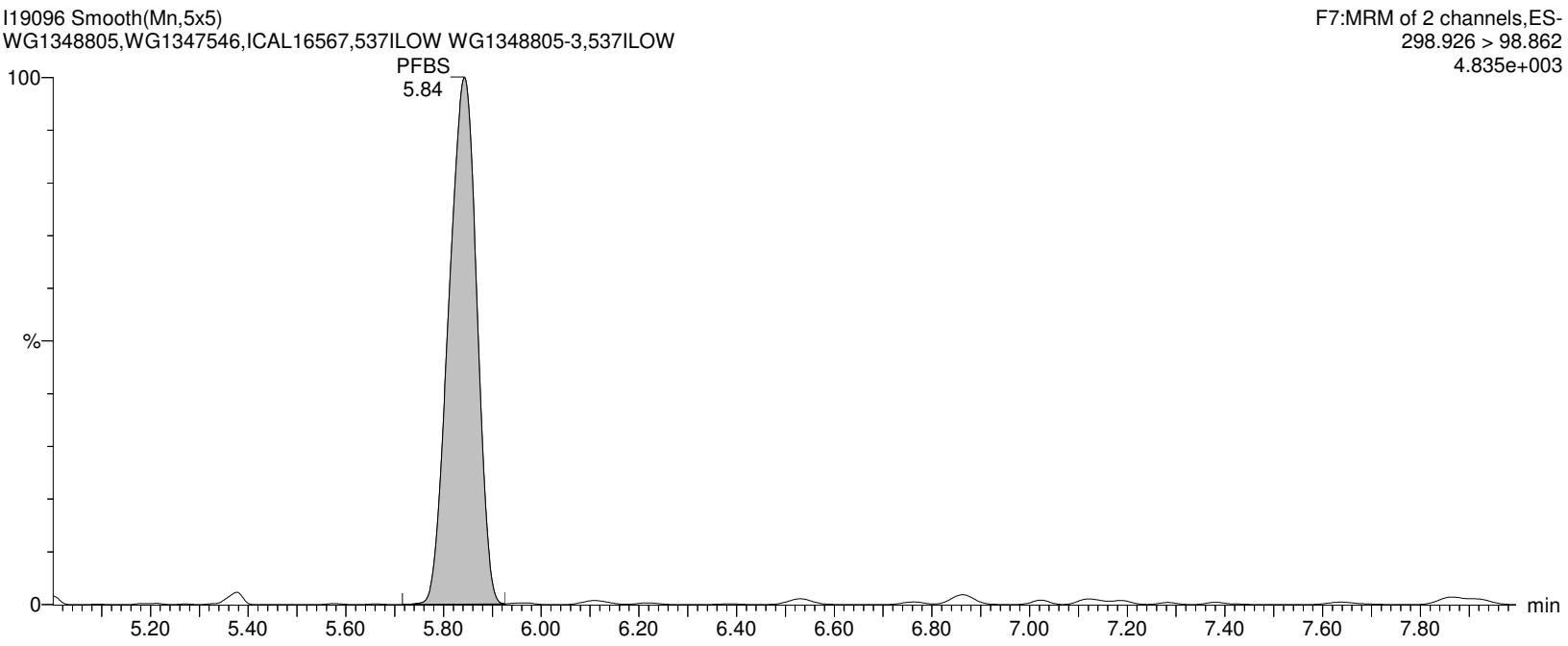
PFBS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
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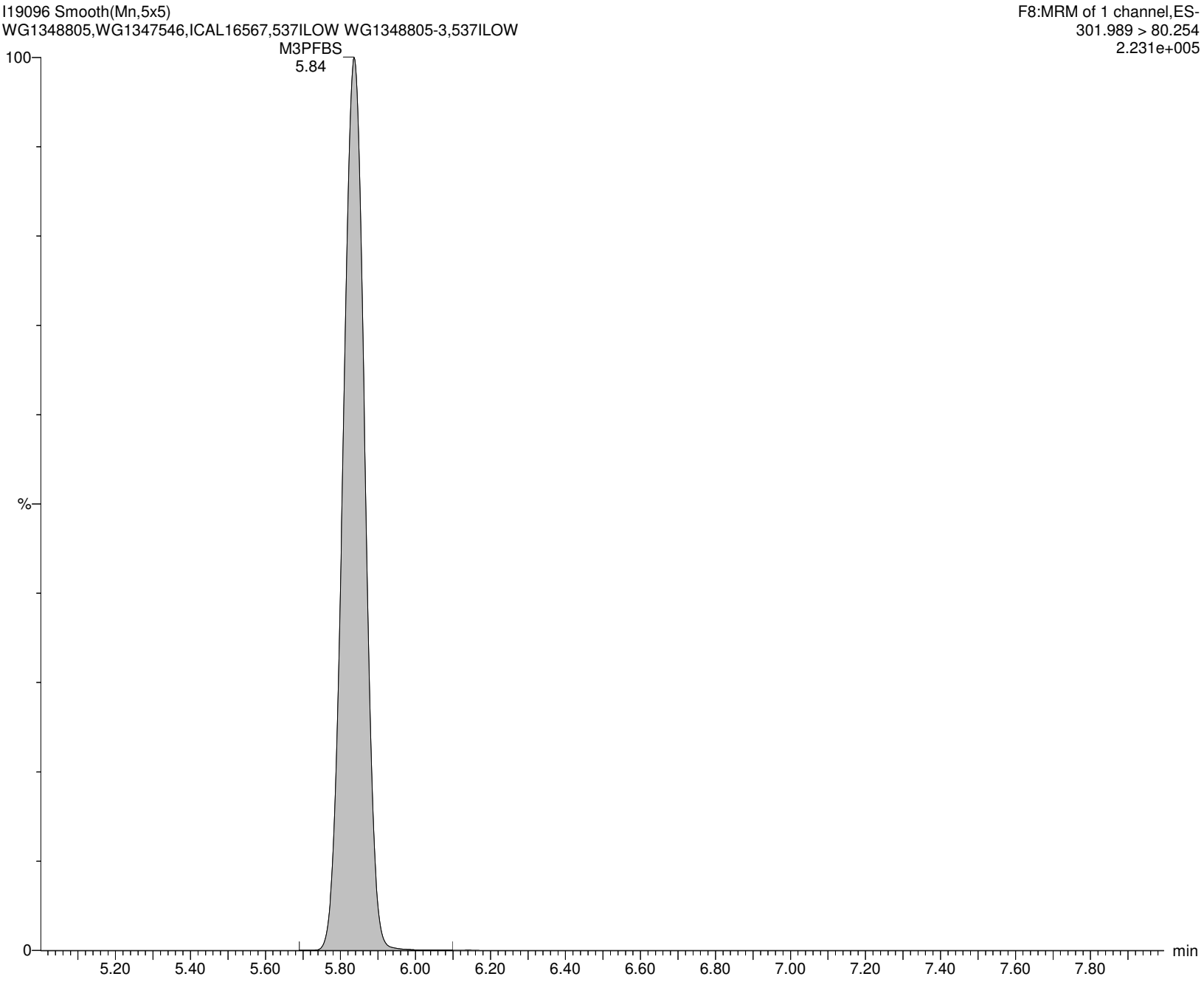
M3PFBS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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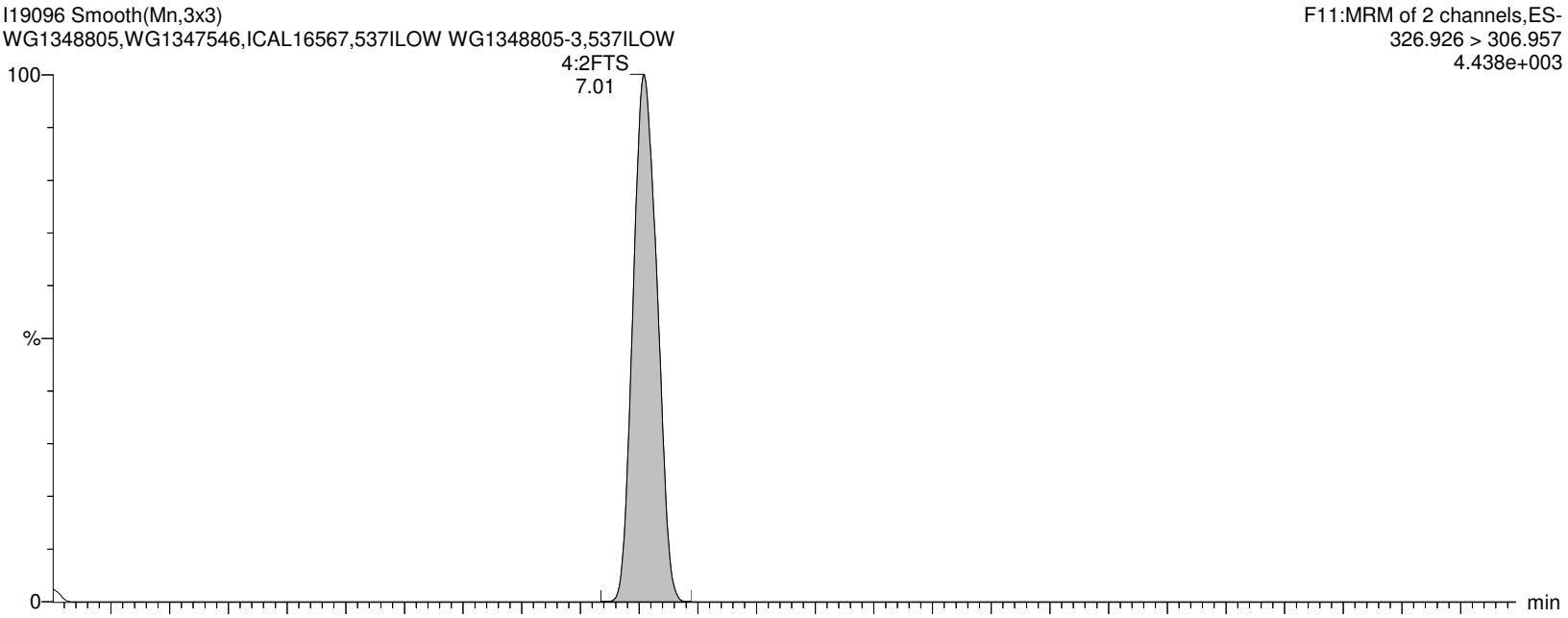
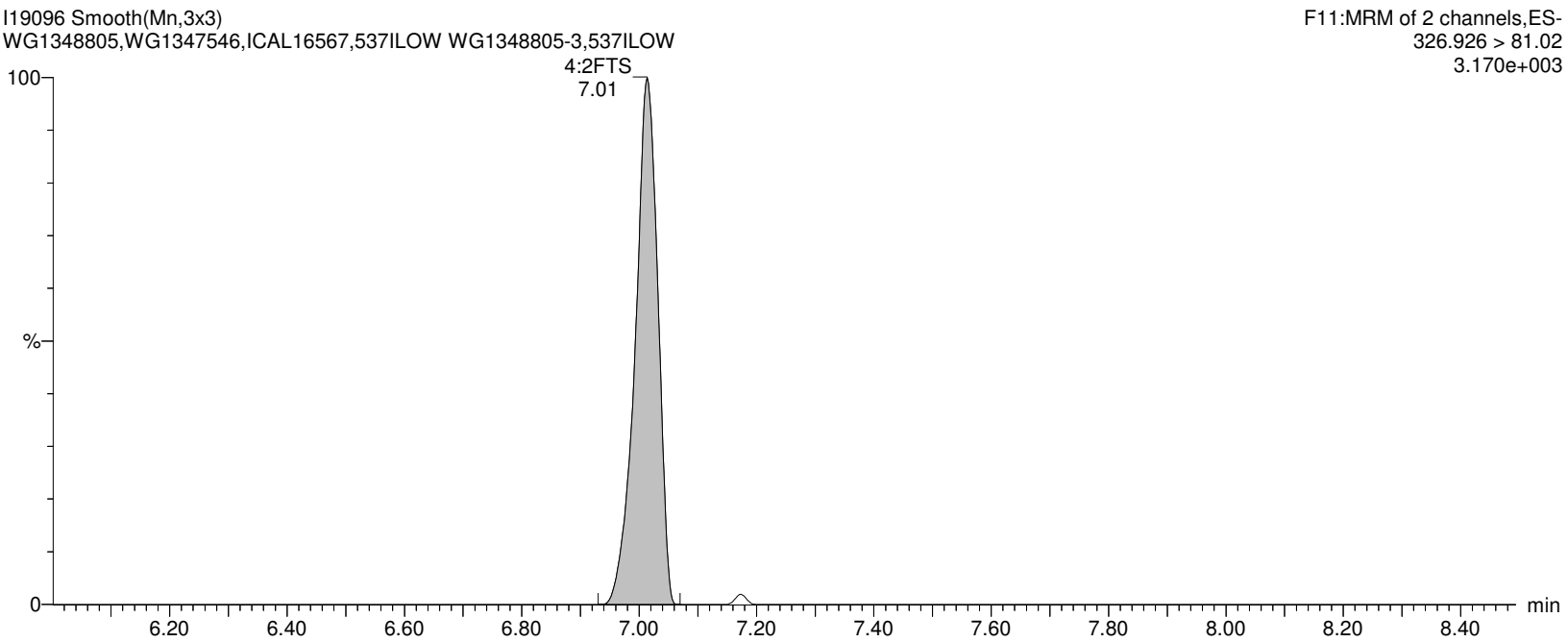
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

4:2FTS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
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Name: I19096
ID: WG1348805-3,537ILOW
Date: 09-Mar-2020
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Description: WG1348805,WG1347546,ICAL16567,537ILOW
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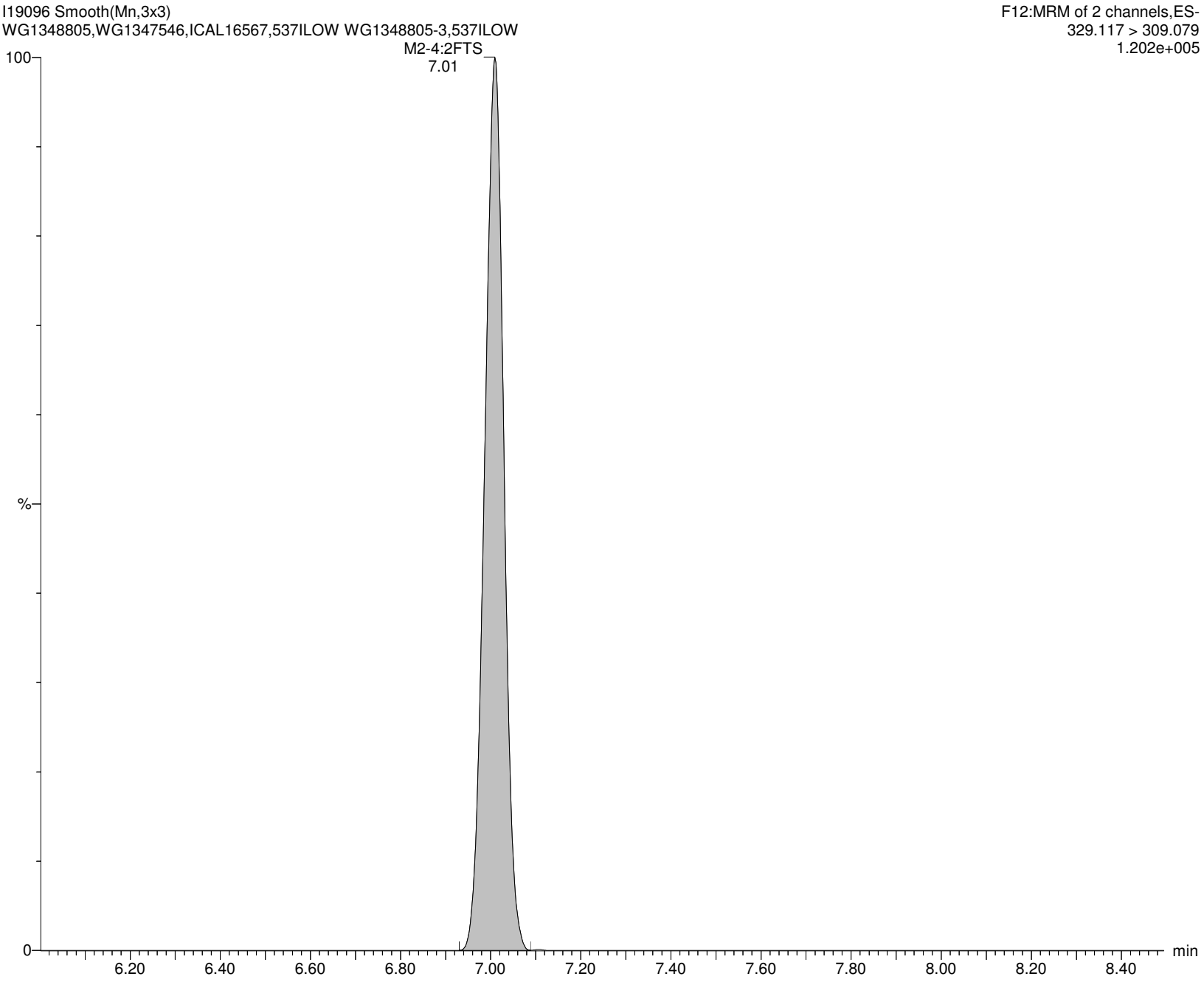
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2-4:2FTS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 09-Mar-2020
Time: 20:21:47
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User: LCMS01:JW
Vial: 1:A,2
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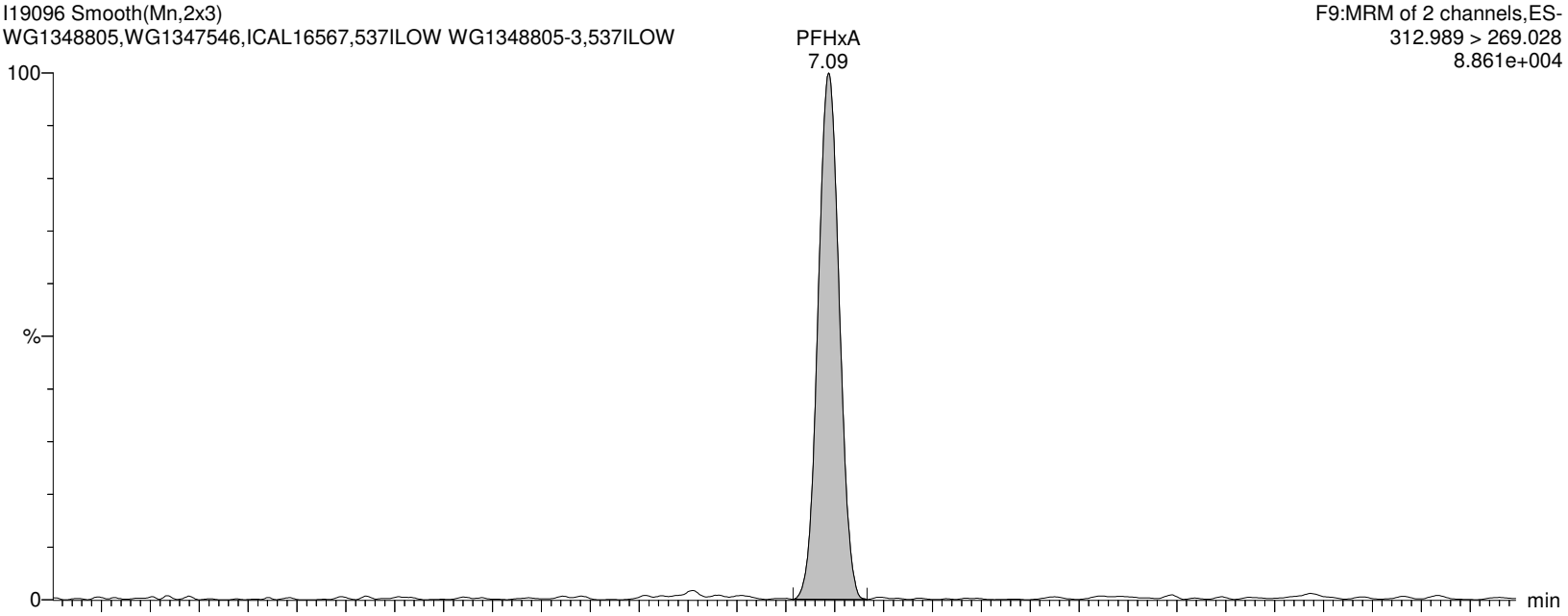

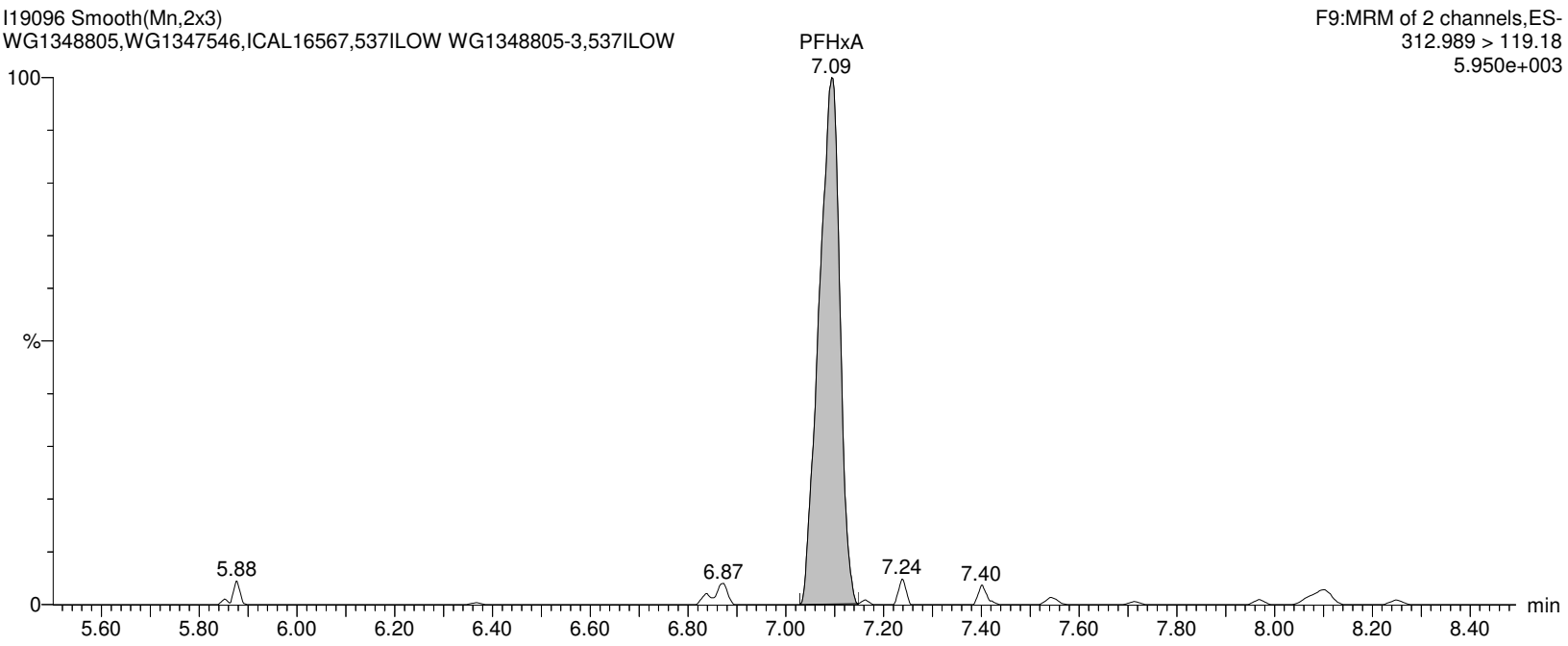

all concentration units in (ng/mL)

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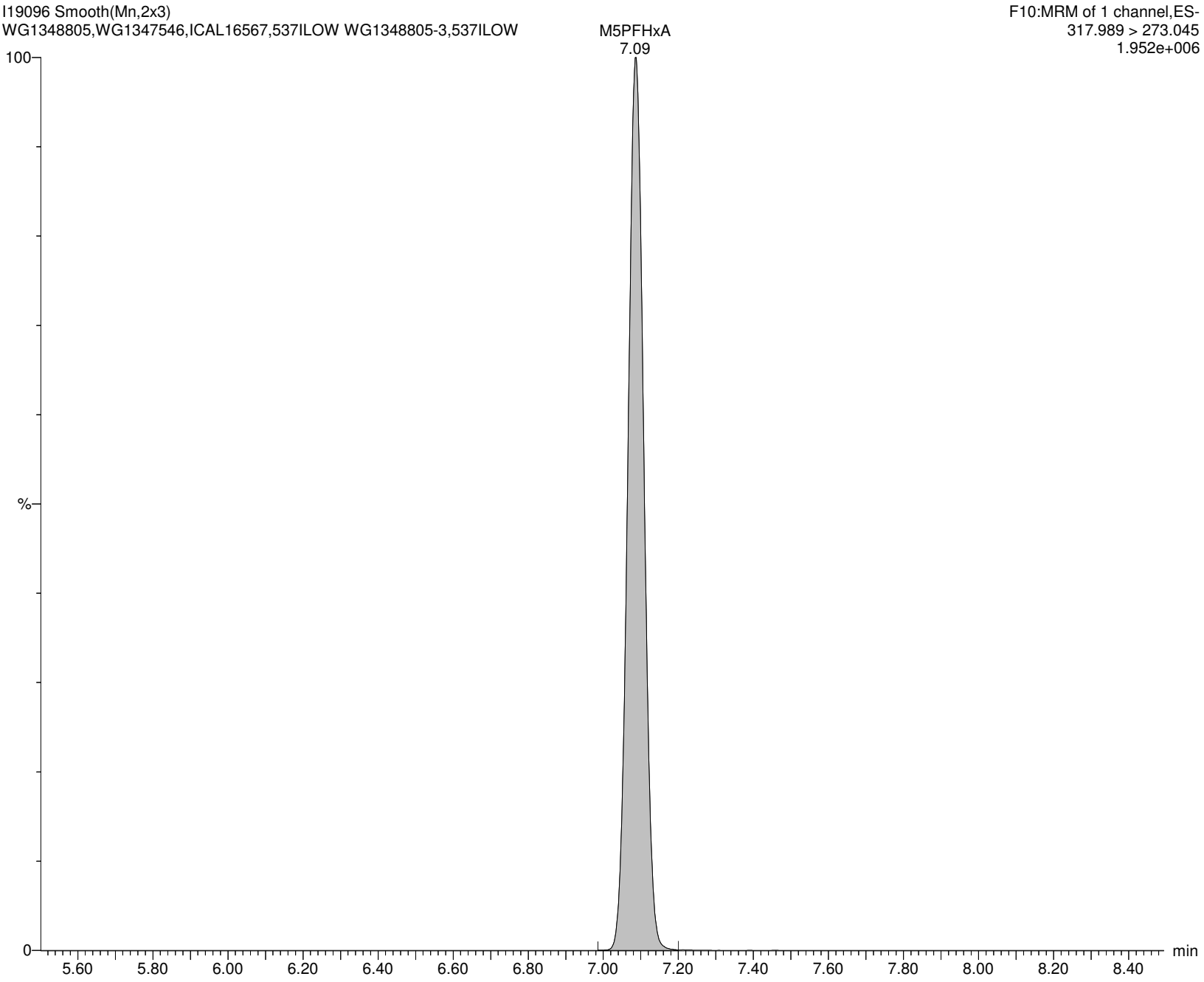

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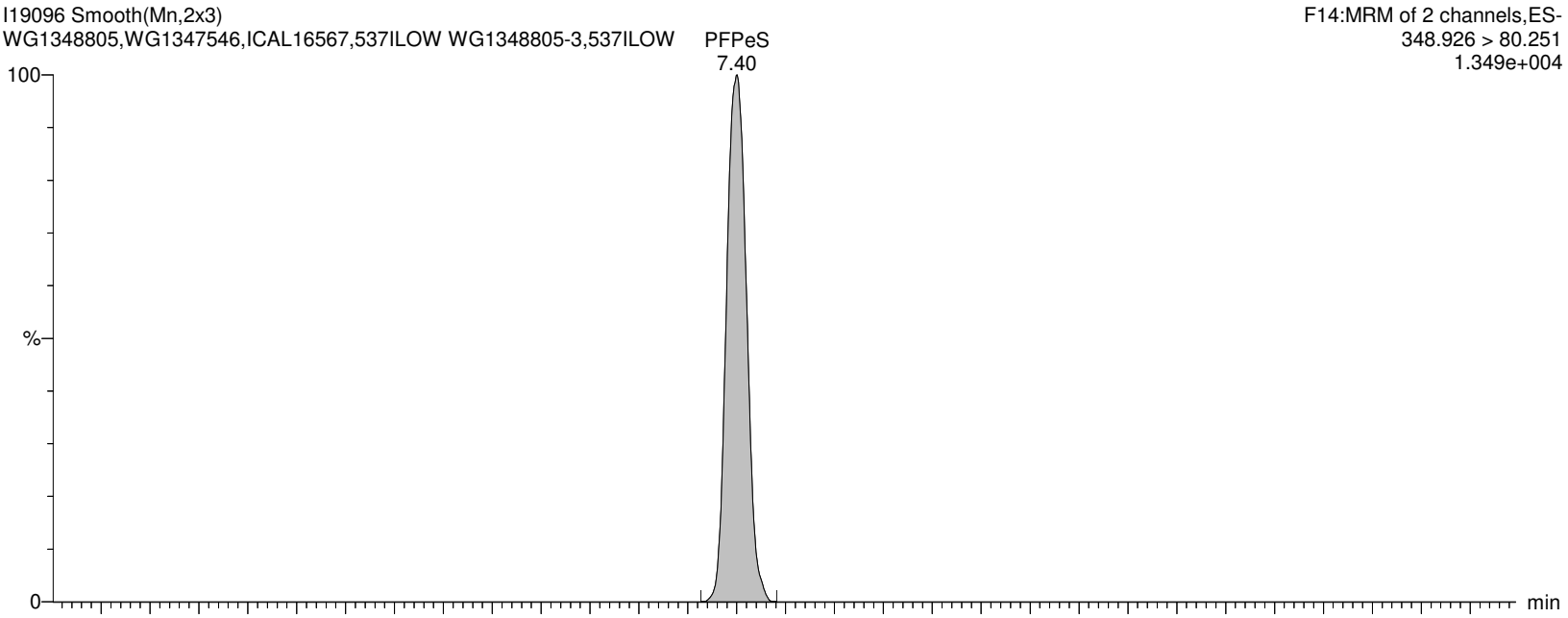

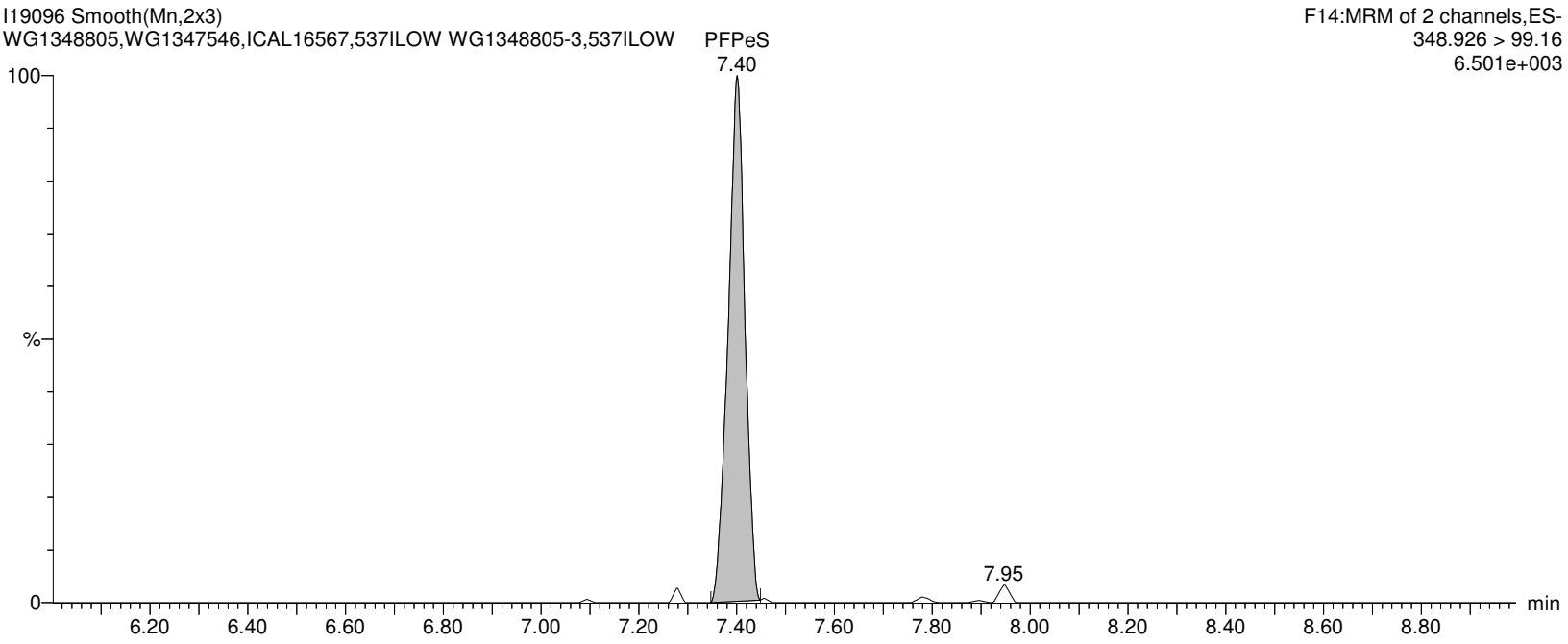

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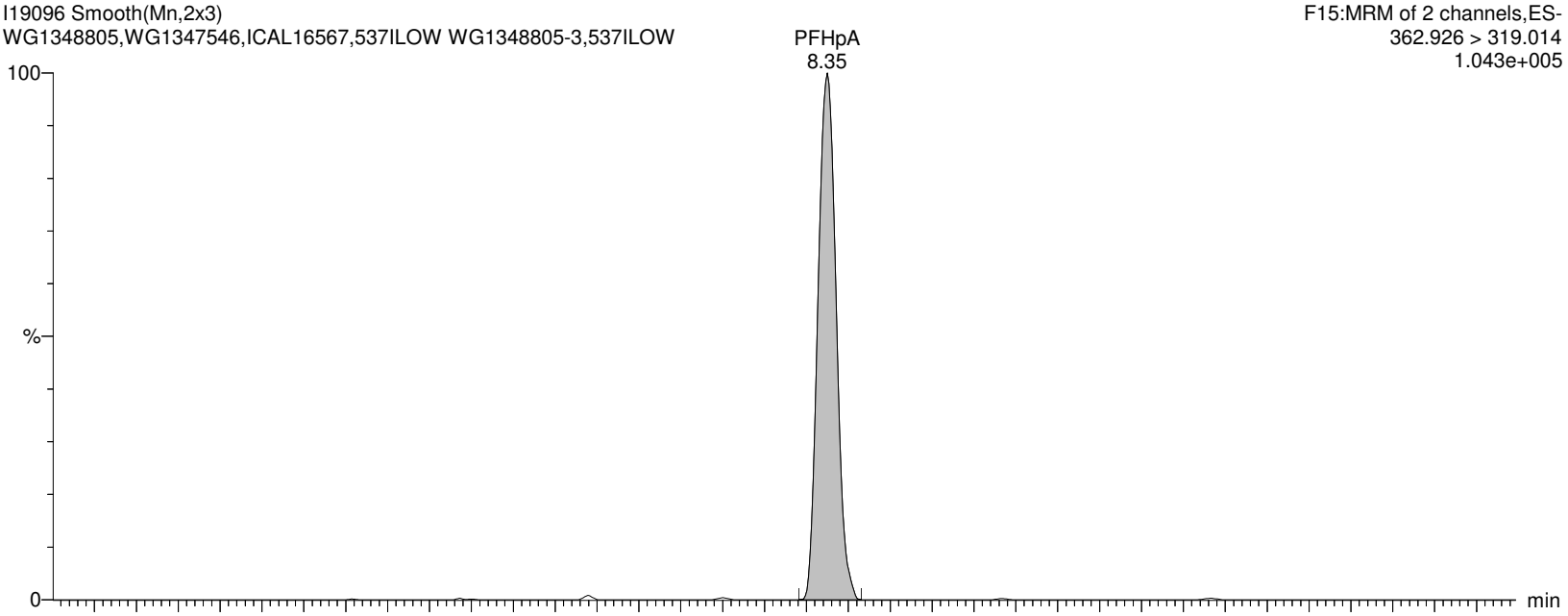

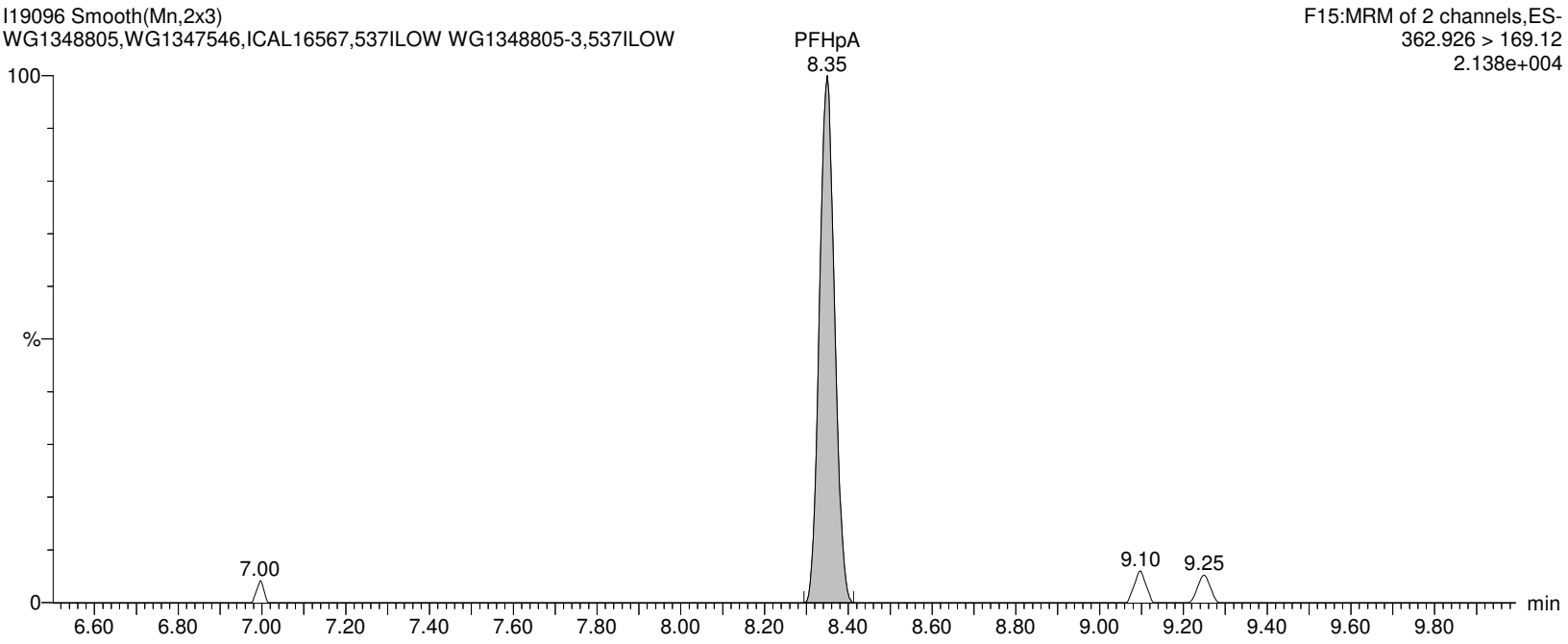

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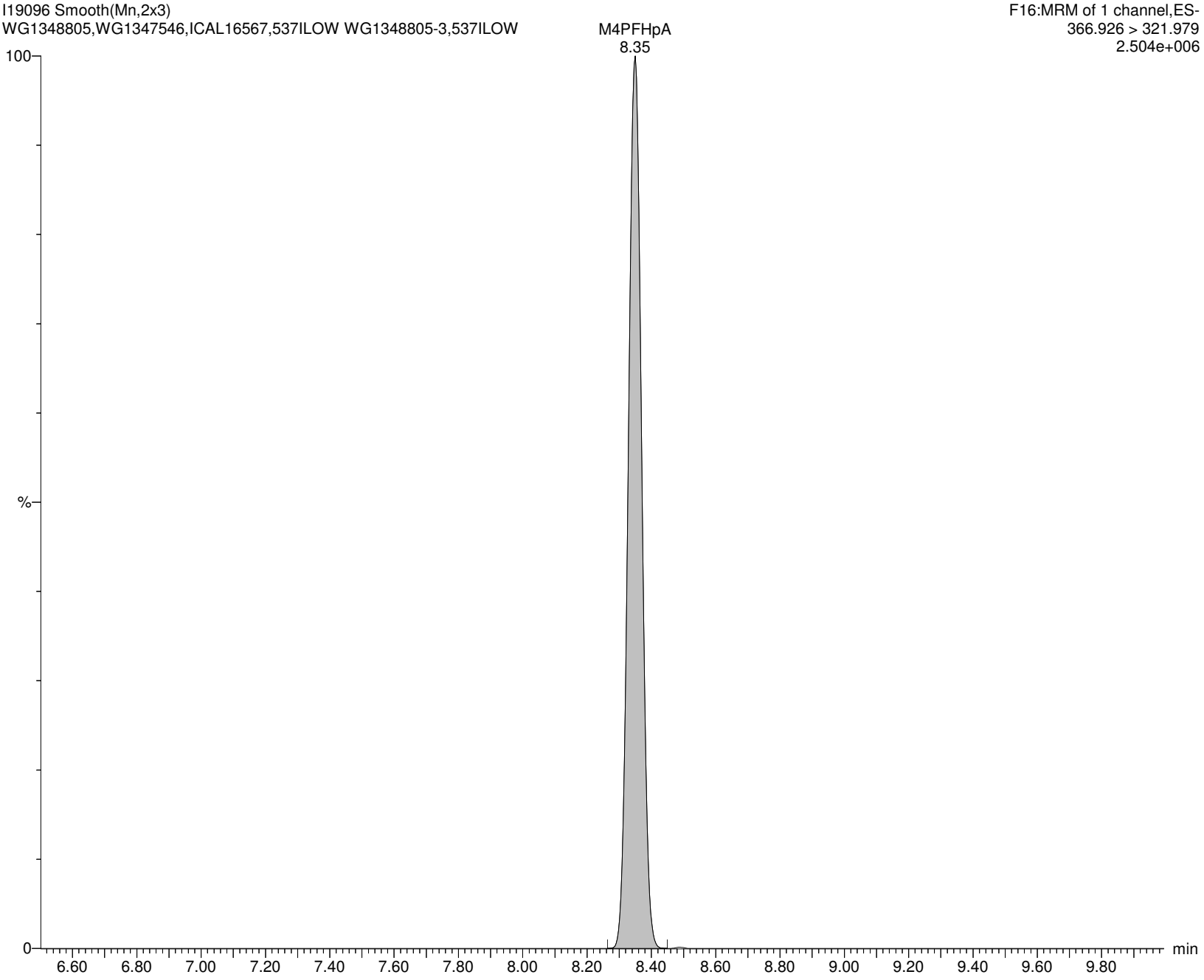

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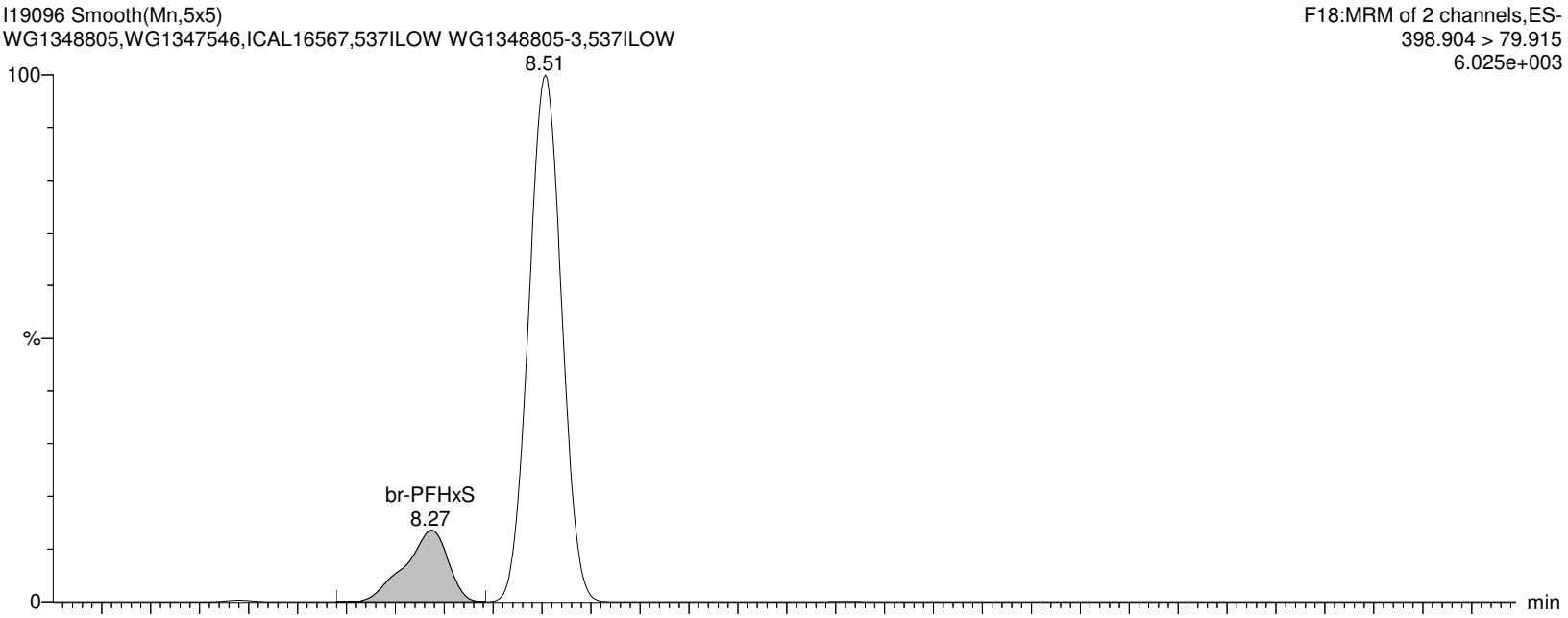

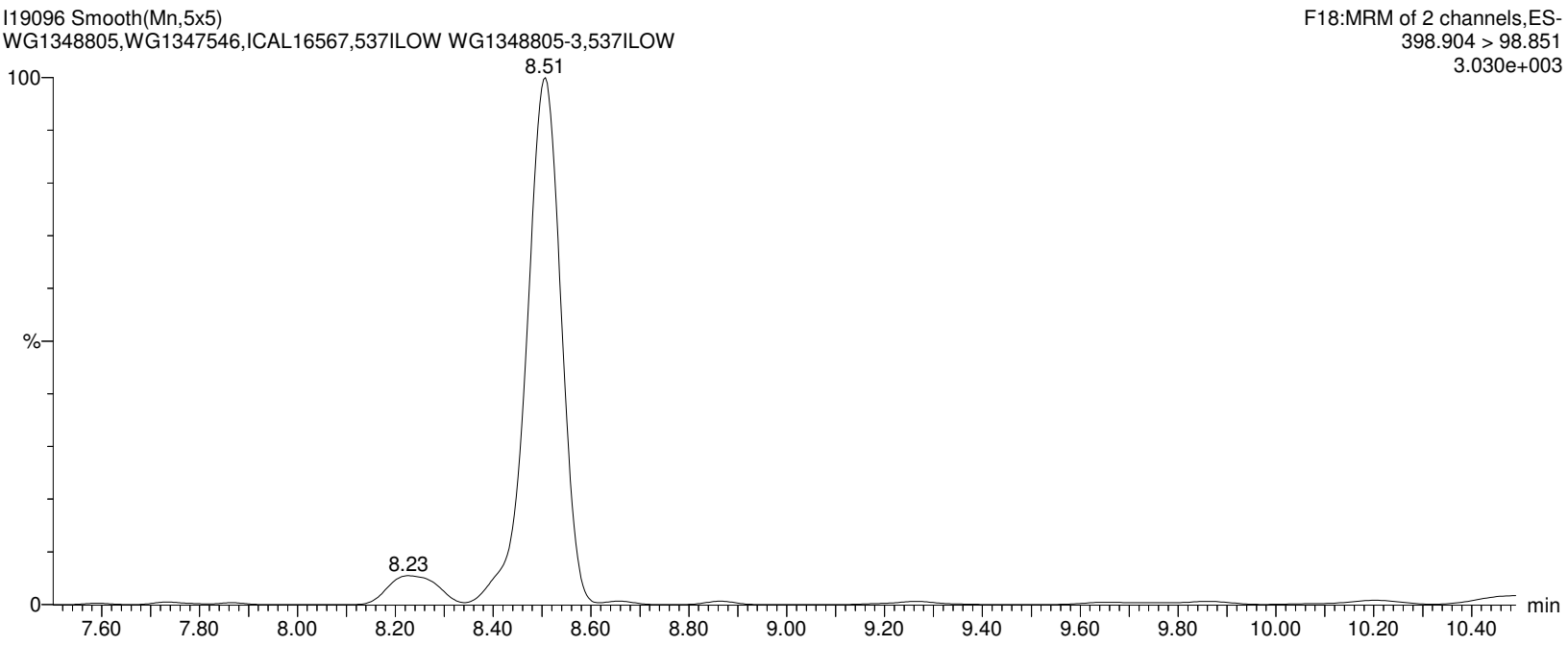

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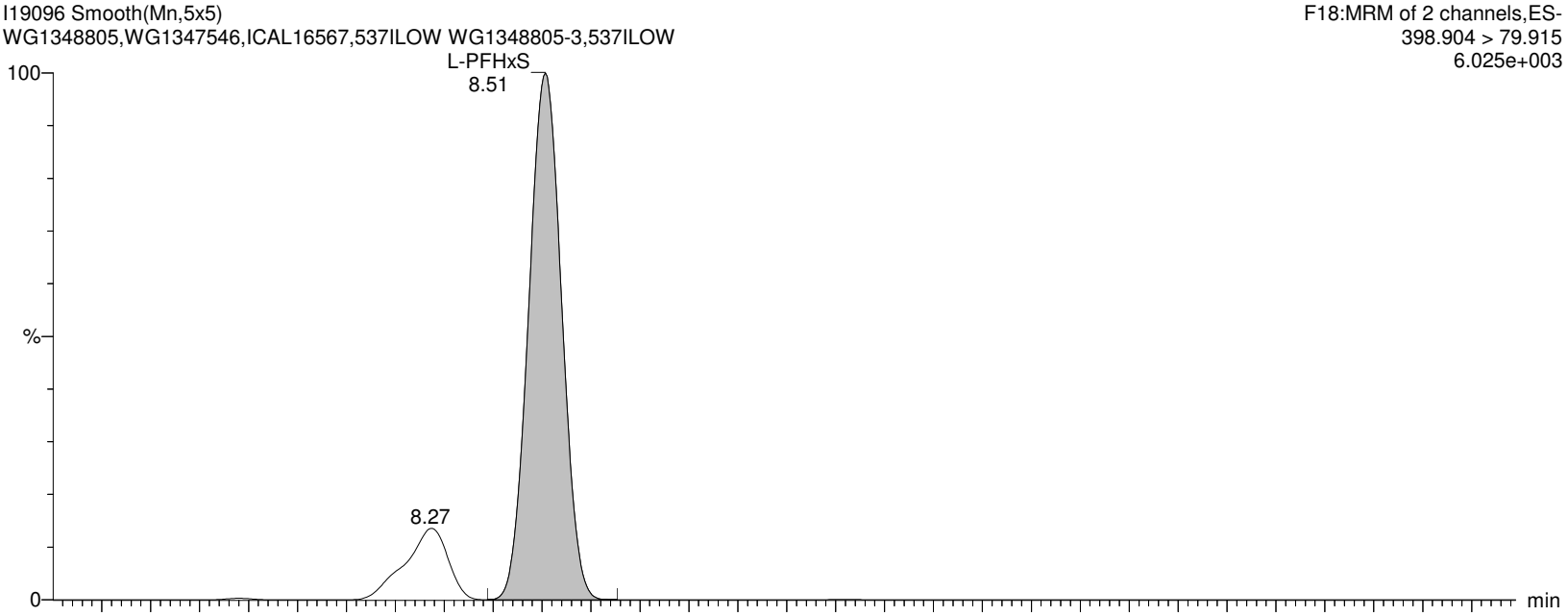

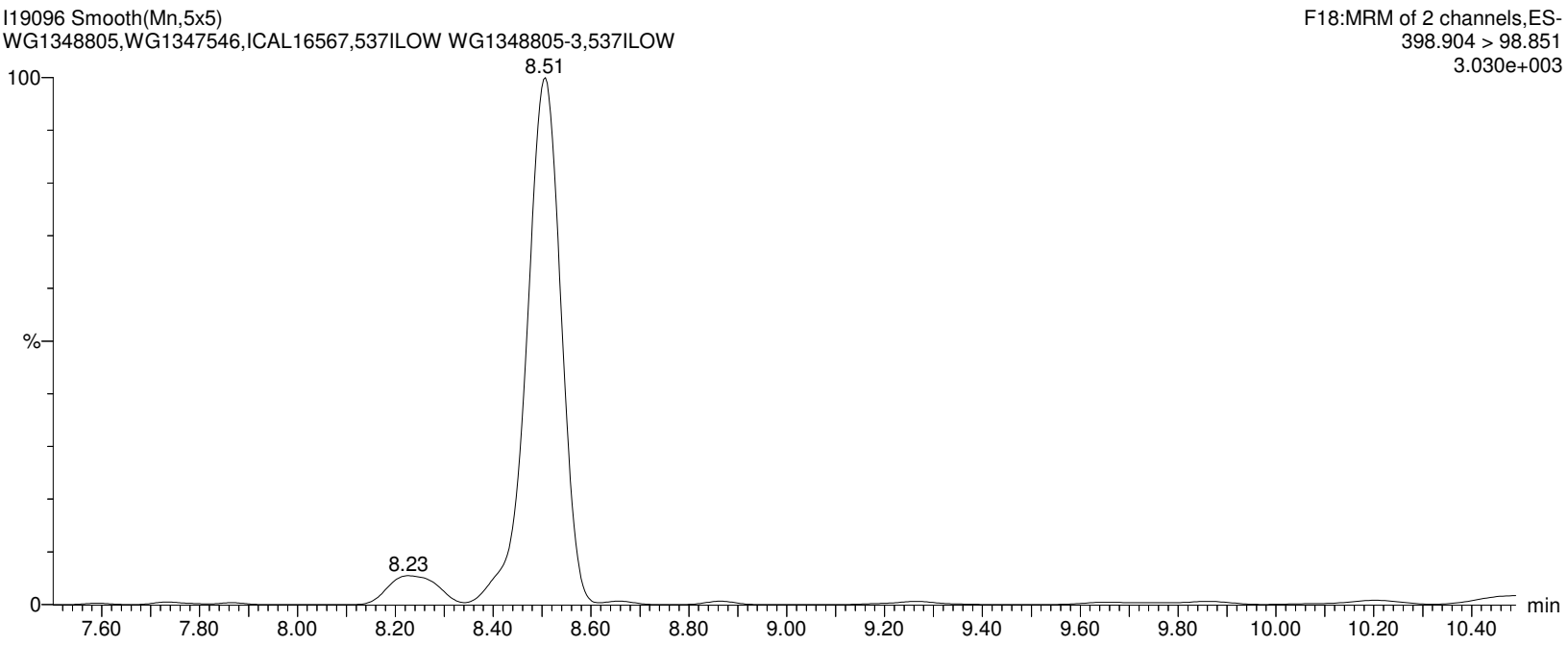

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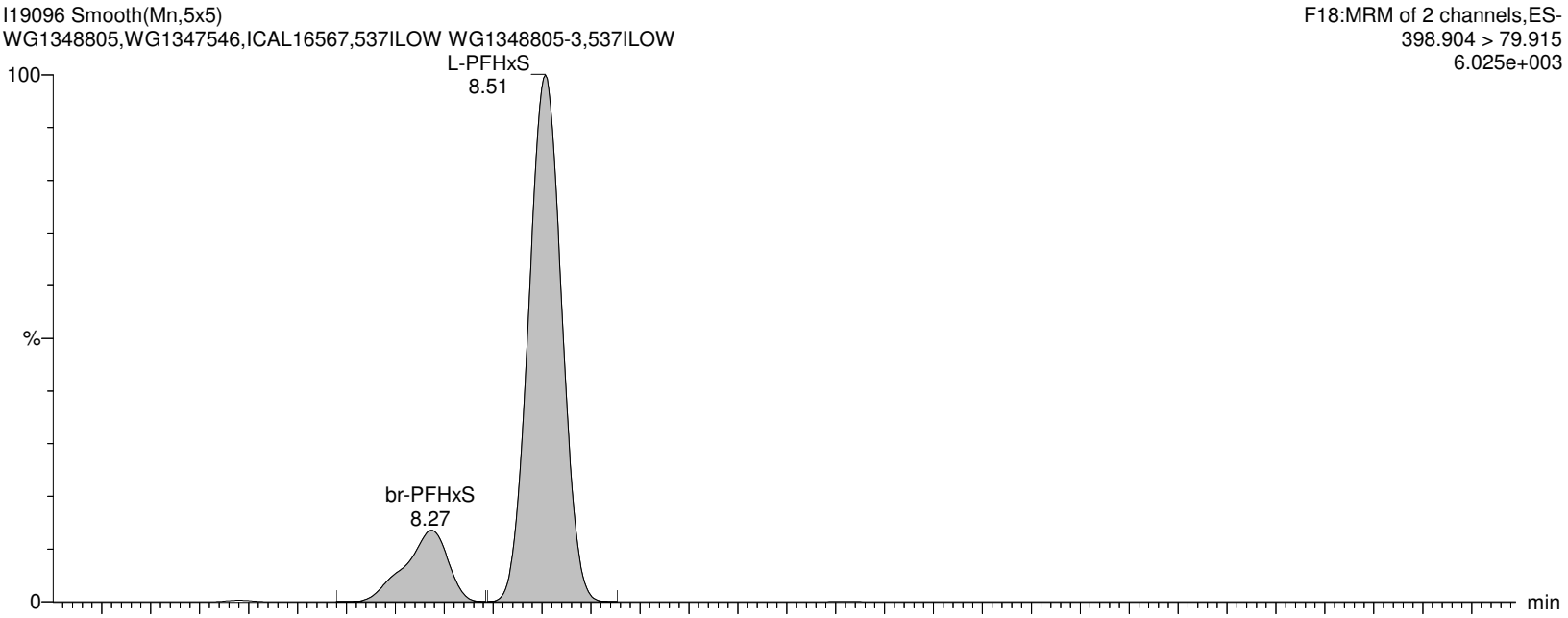

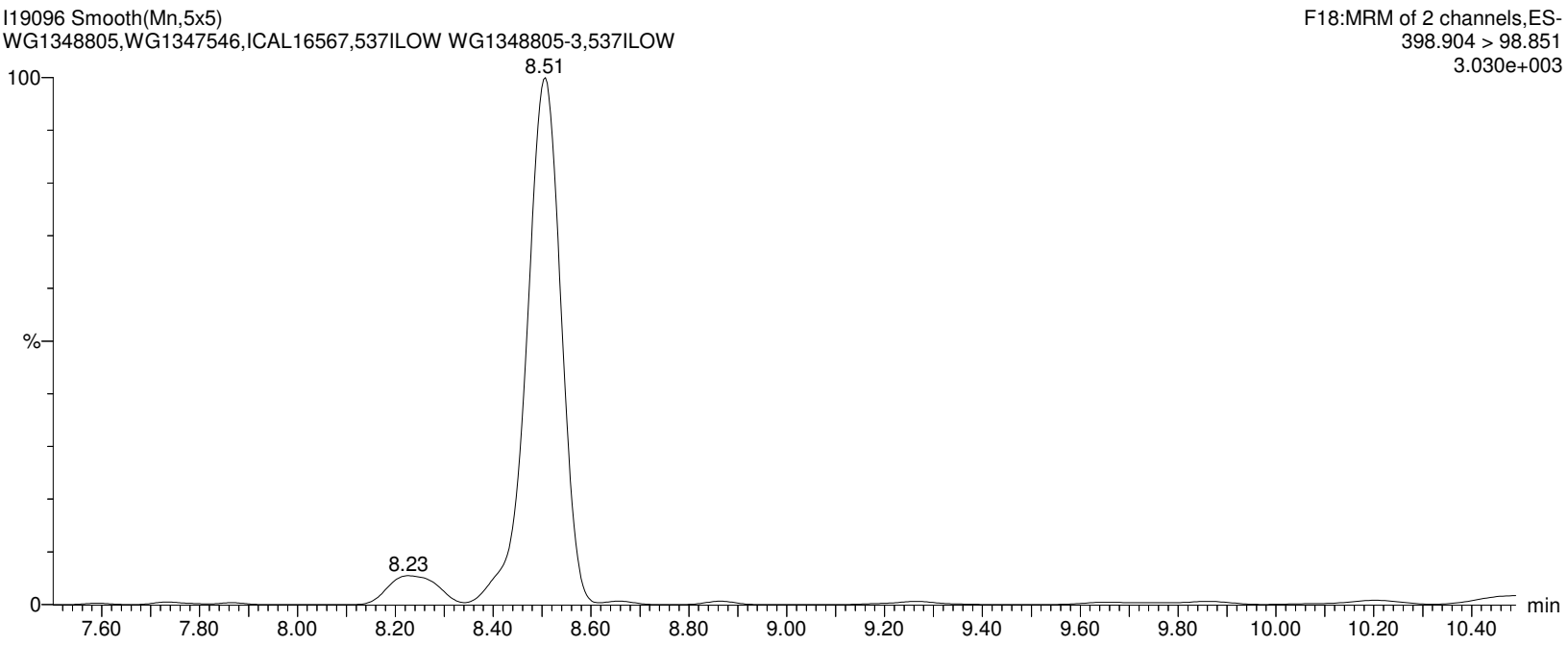

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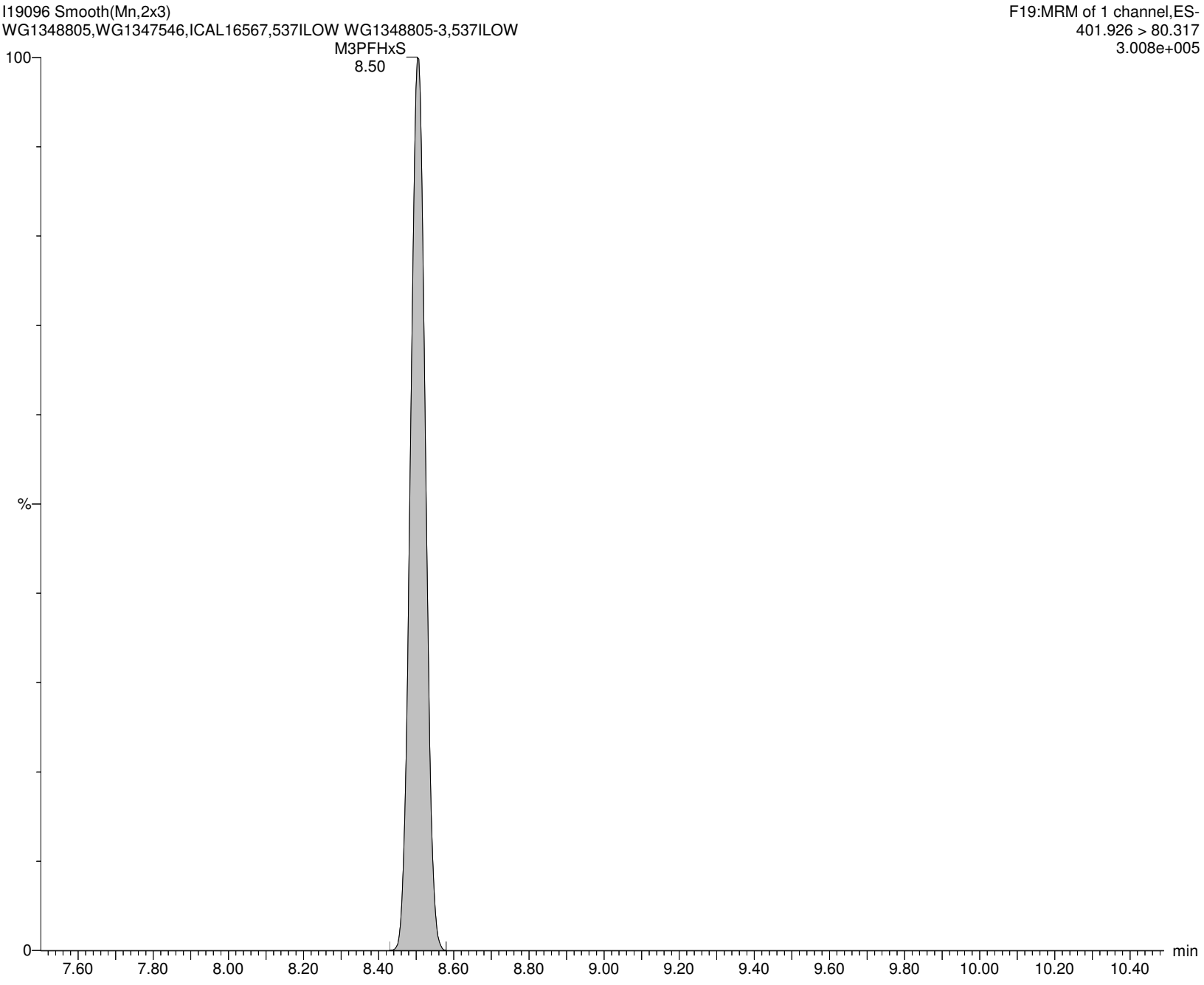

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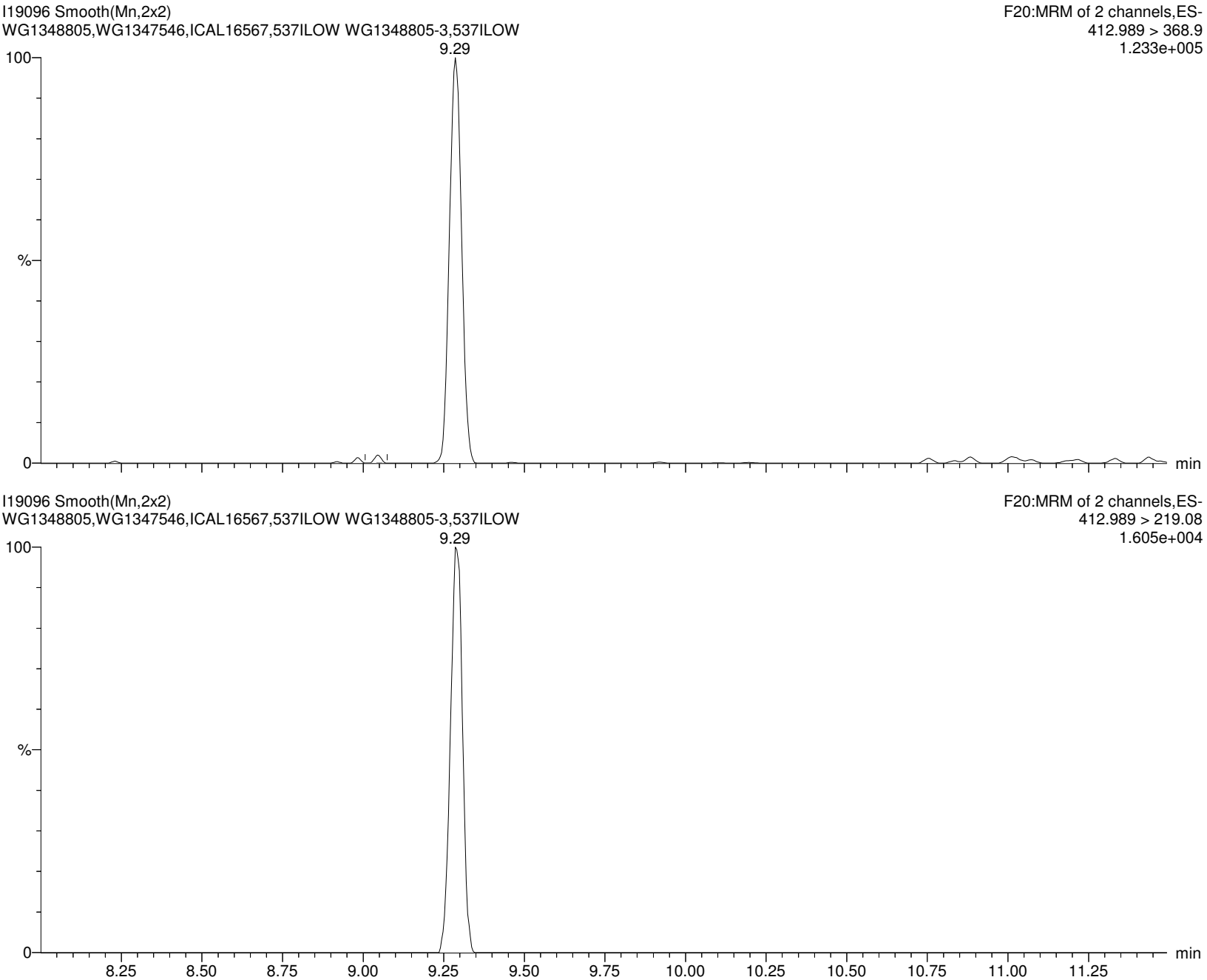

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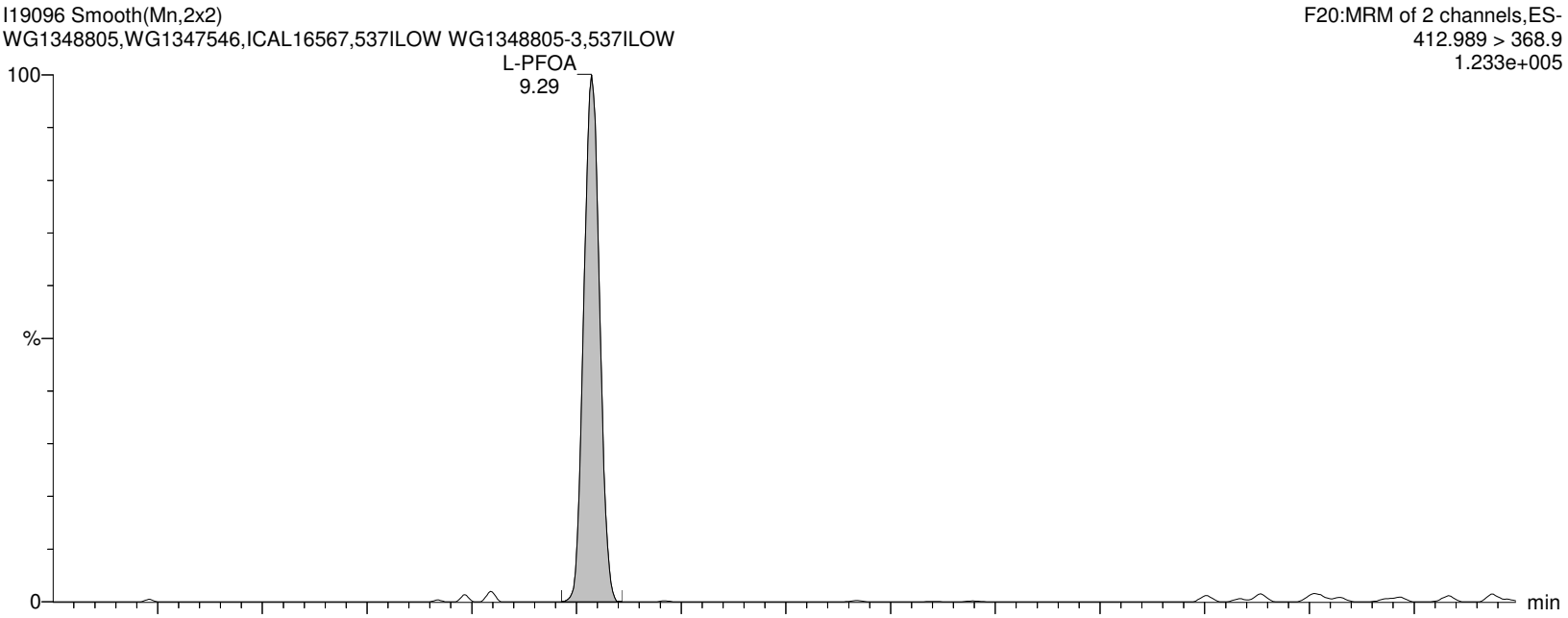

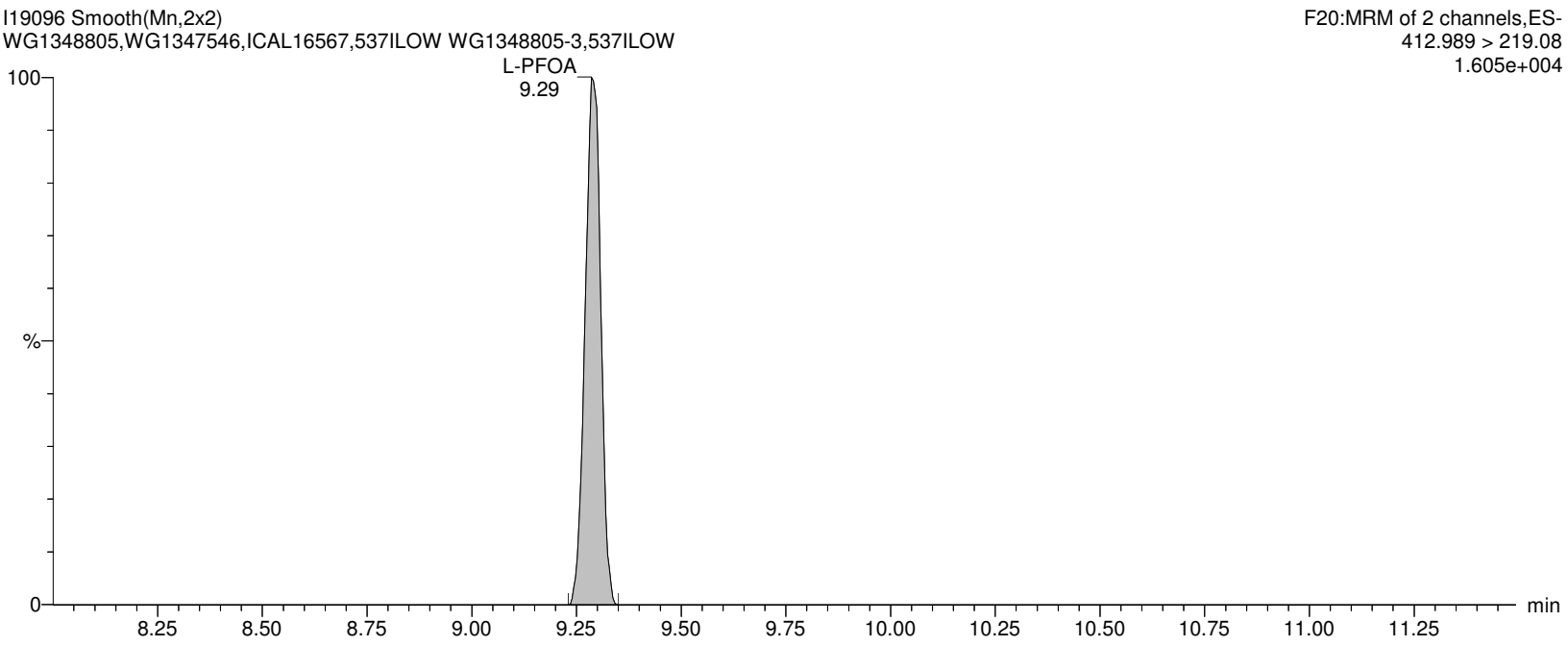

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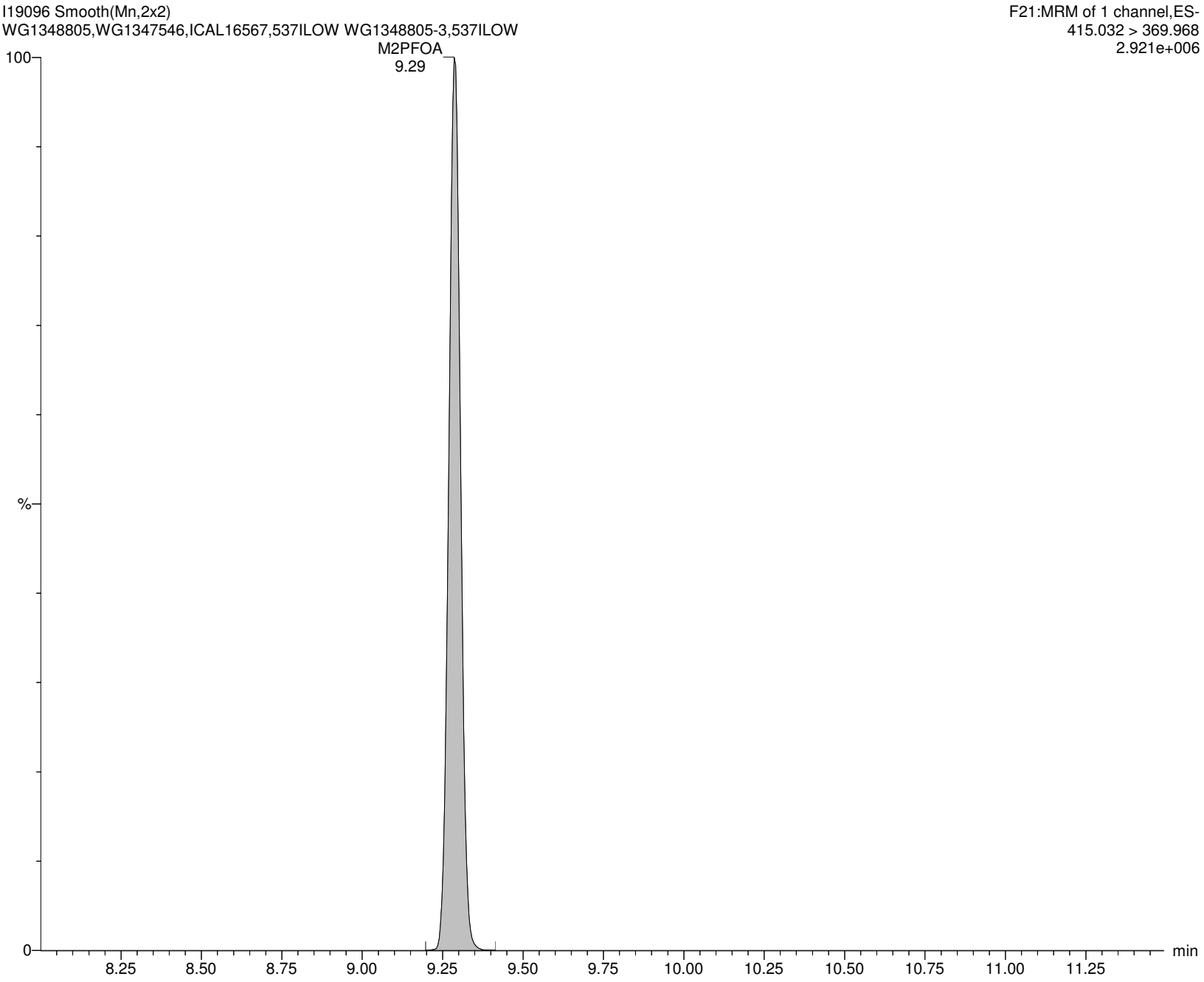

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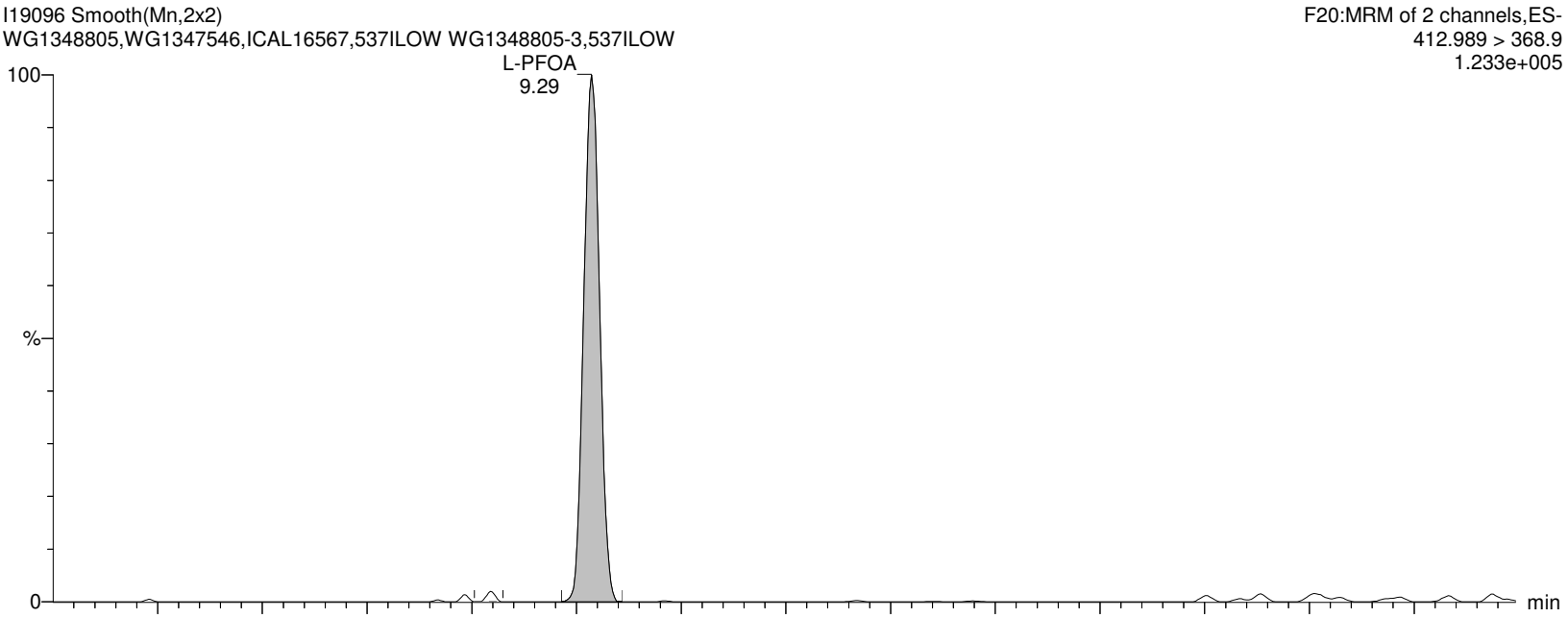

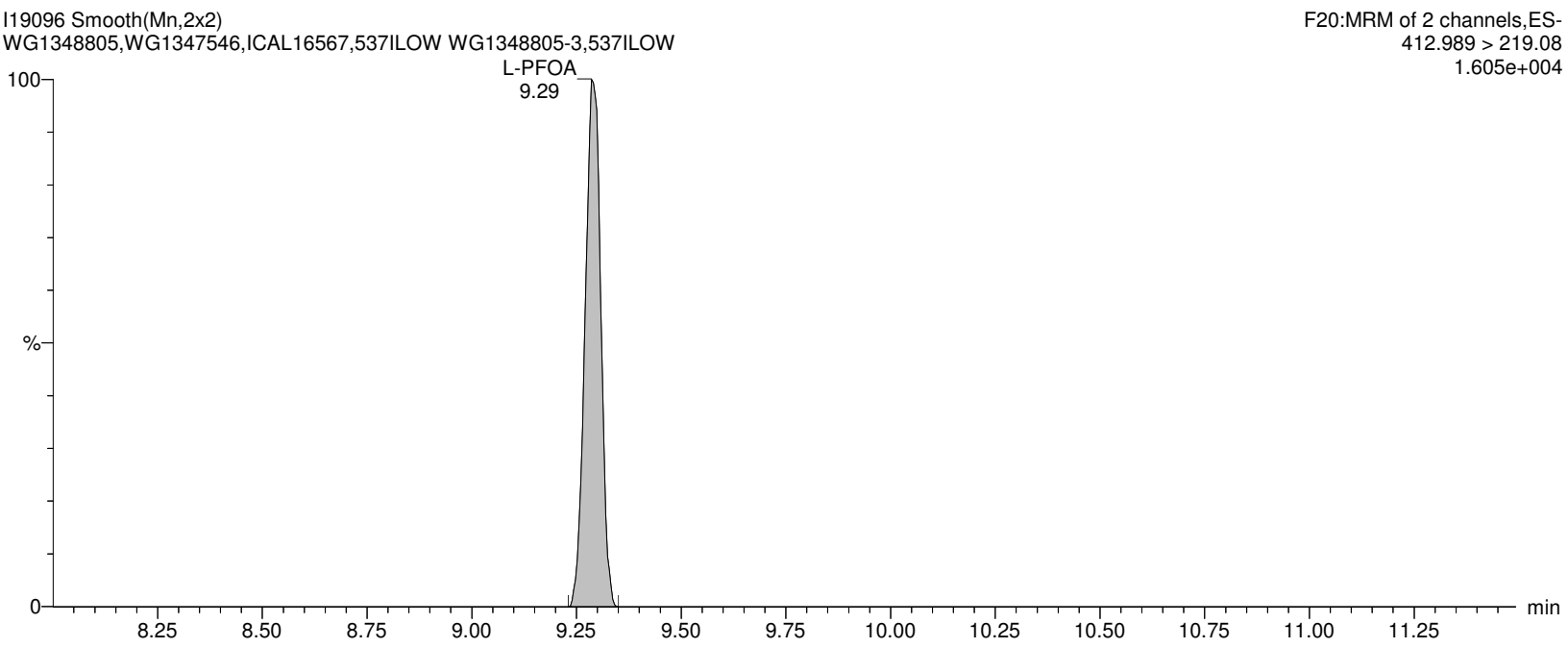

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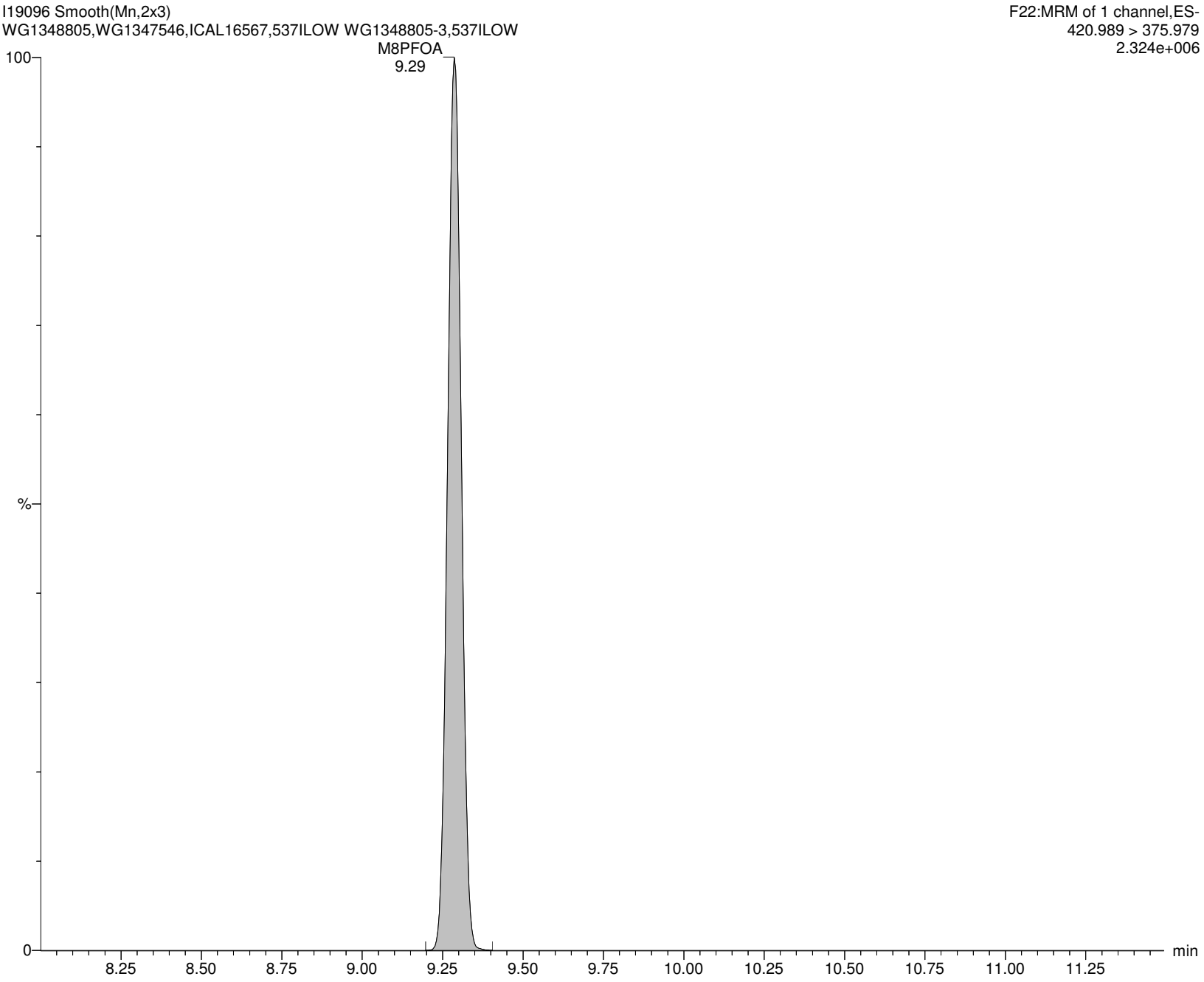

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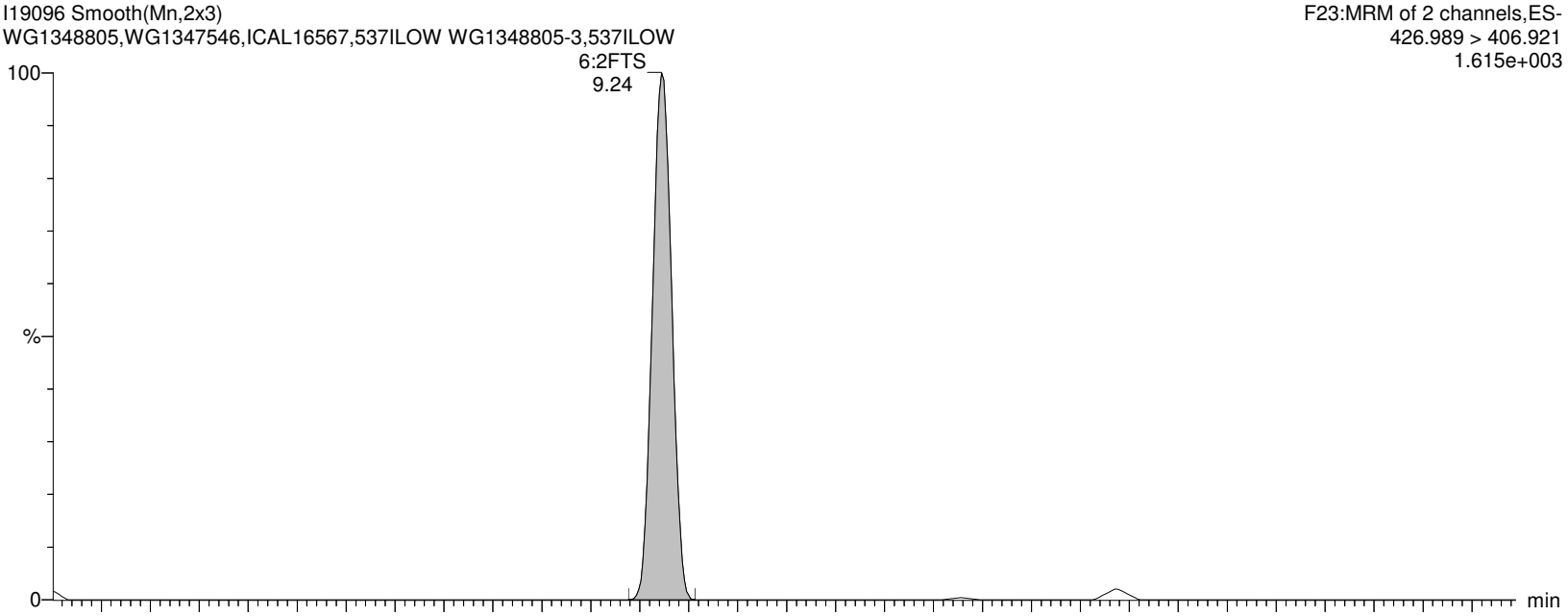

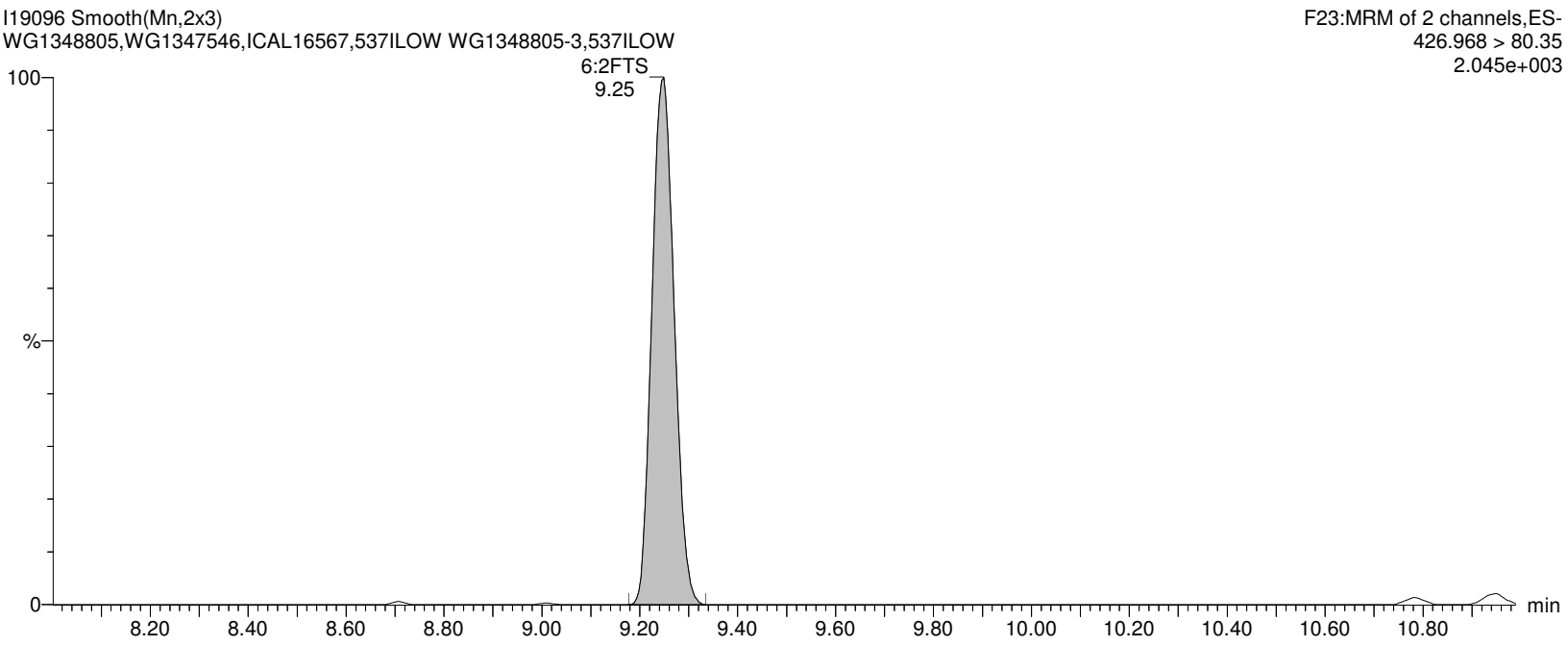

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Instrument: XEVO-TQSmicro#QEA0276
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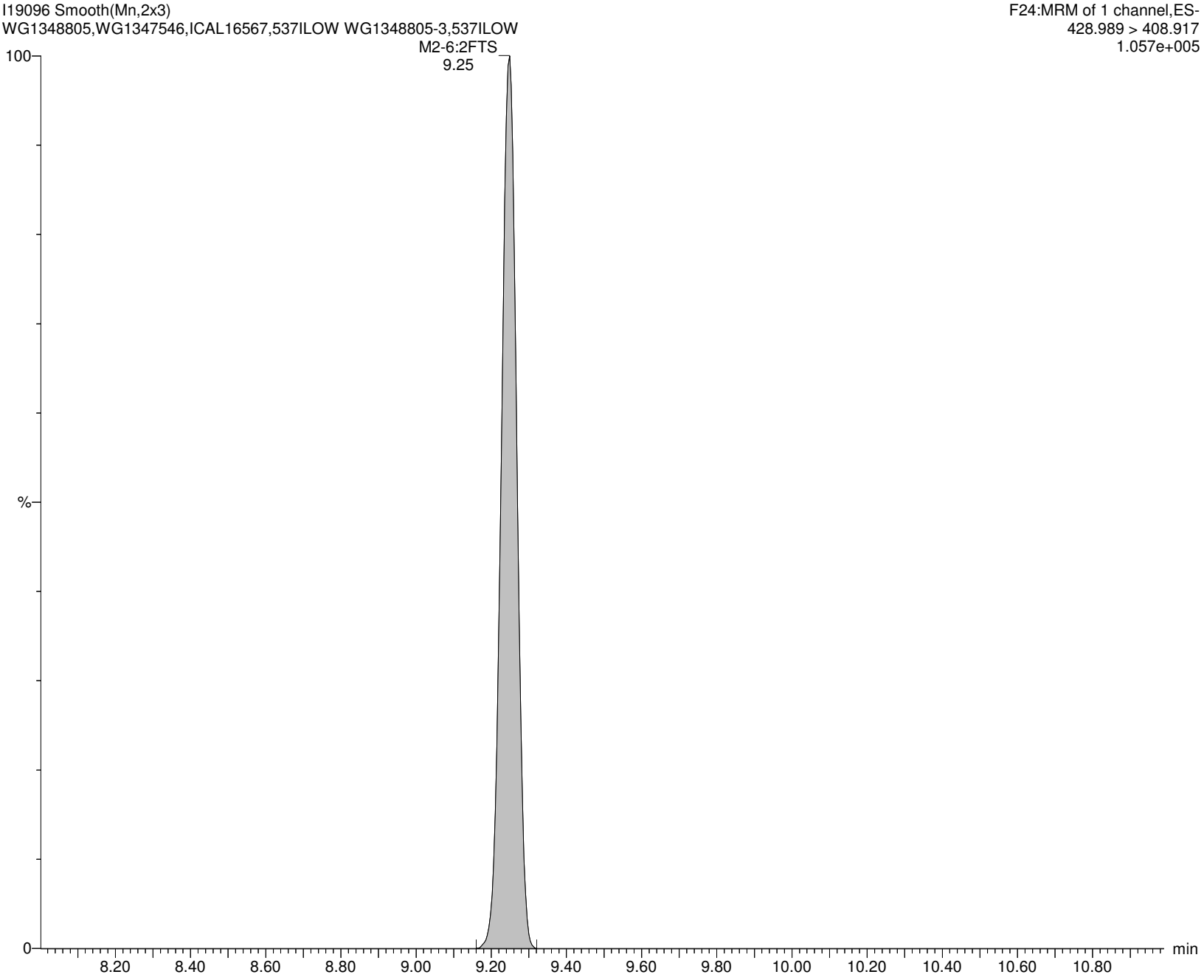

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:10:14 Eastern Daylight Time

Name: I19096
ID: WG1348805-3,537ILOW
Date: 09-Mar-2020
Time: 20:21:47
Description: WG1348805,WG1347546,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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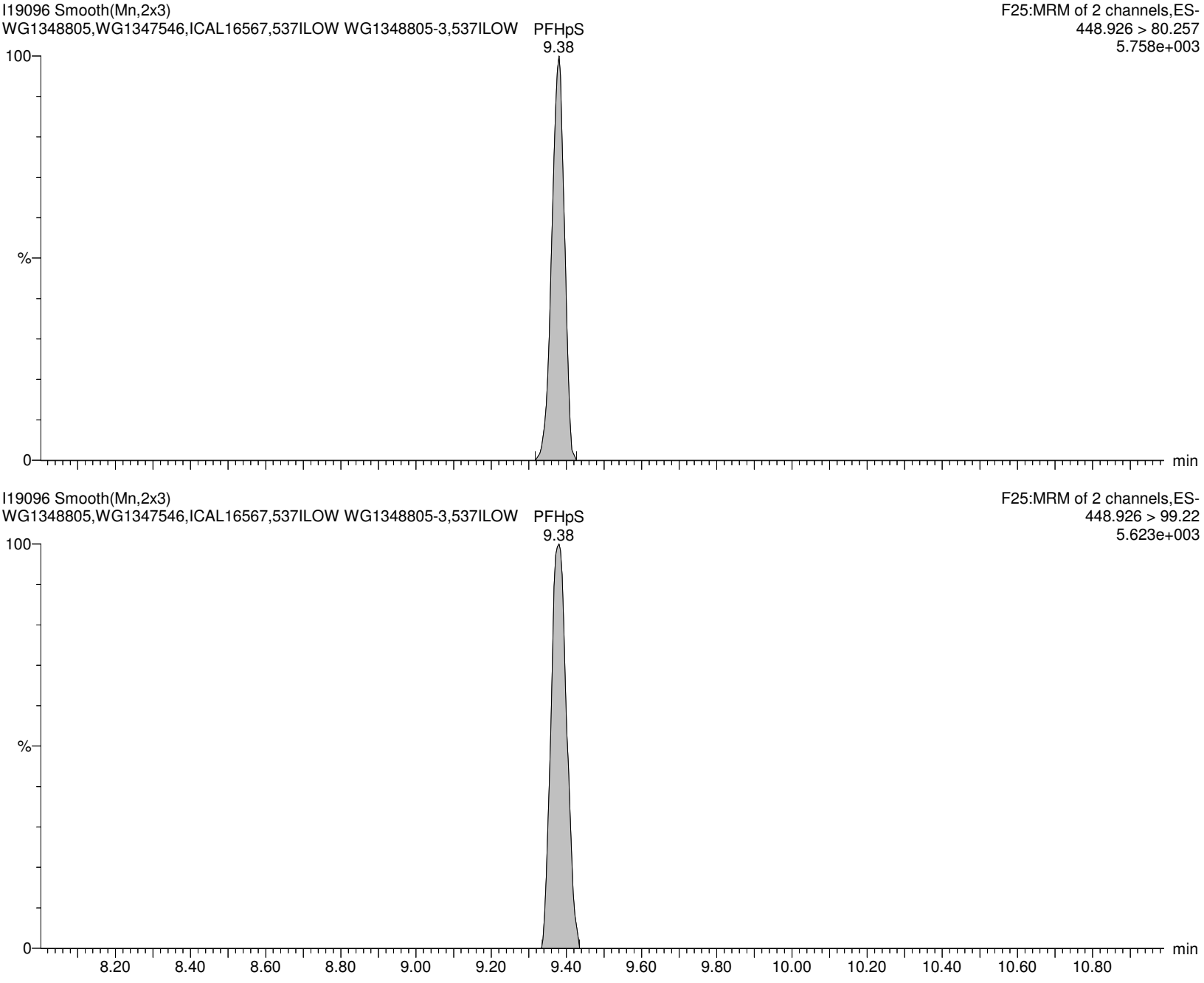

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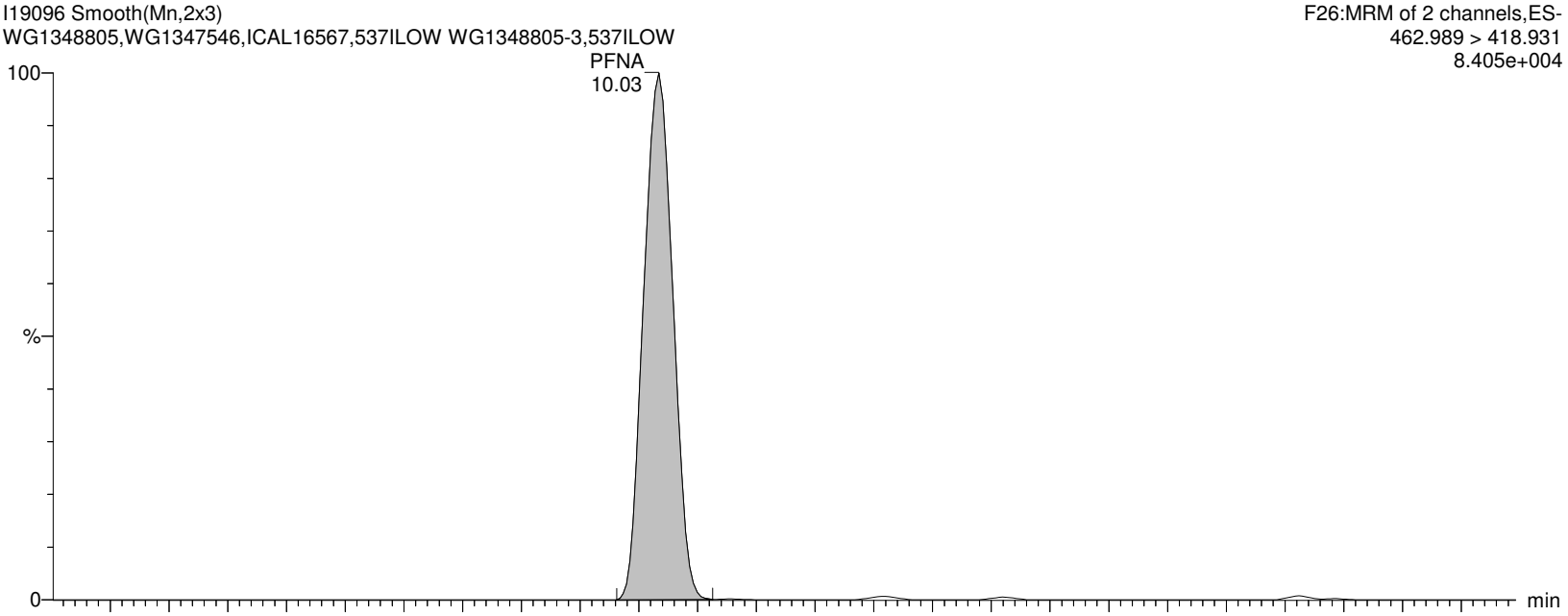

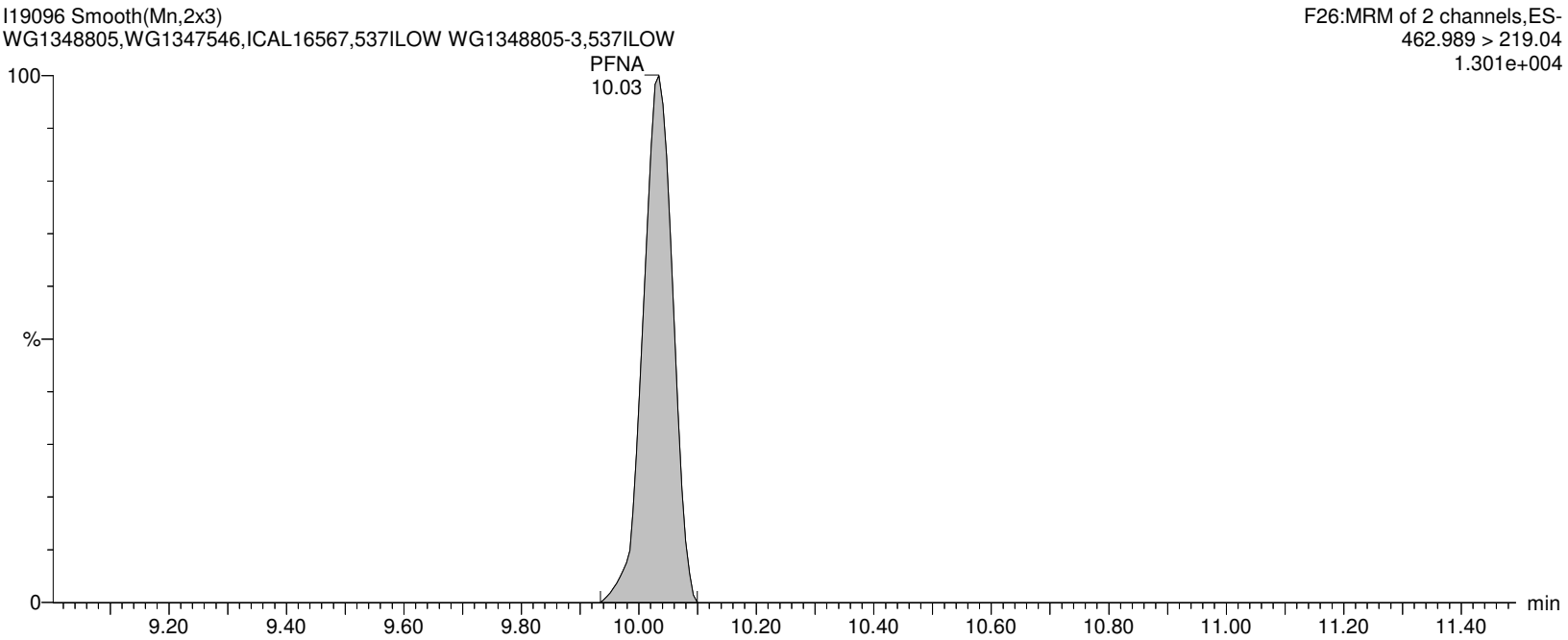

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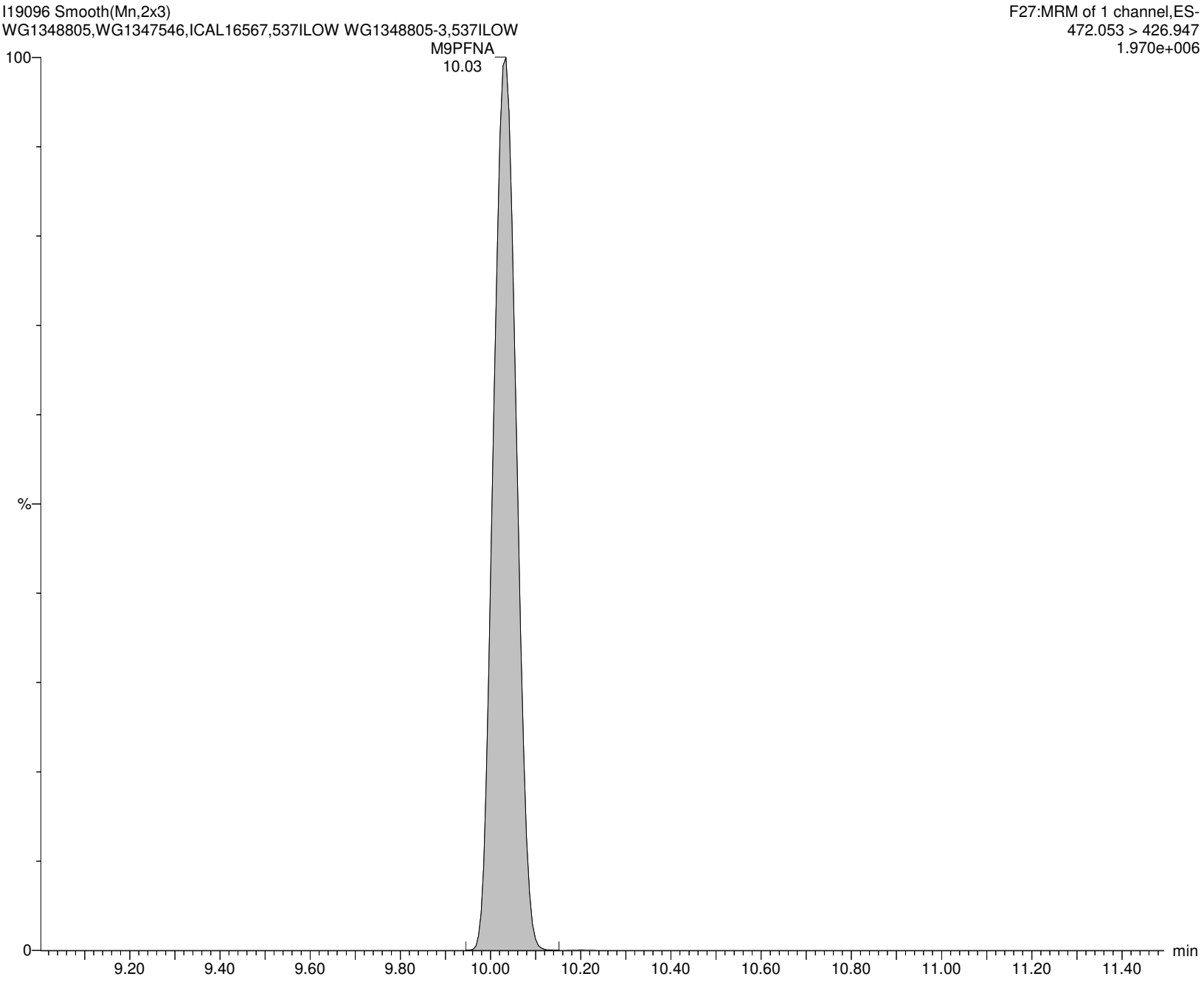

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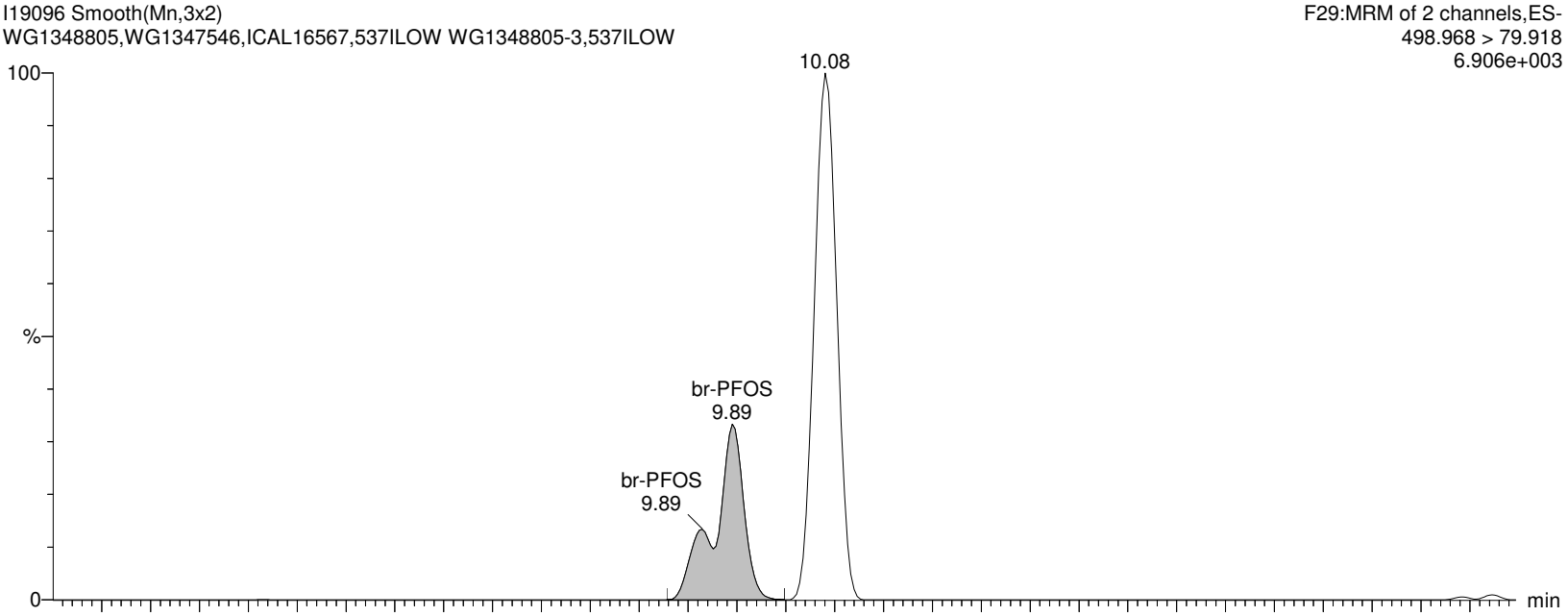

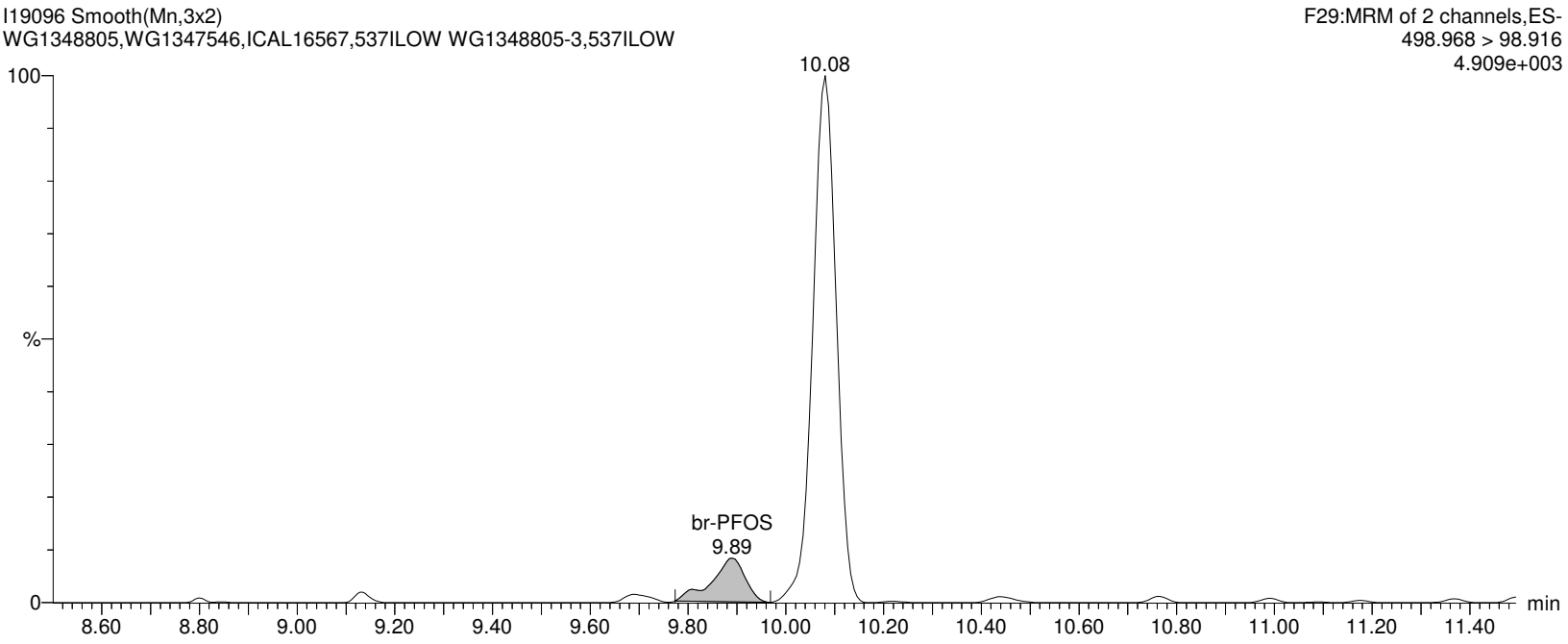

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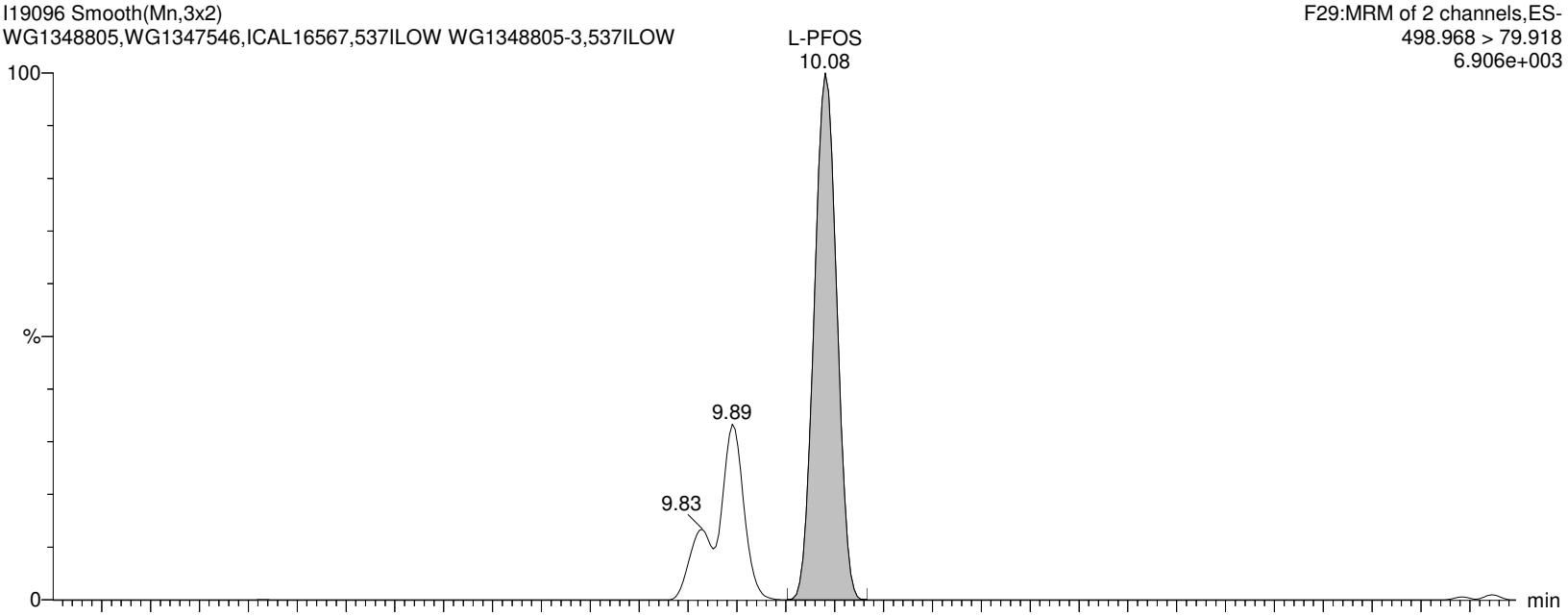

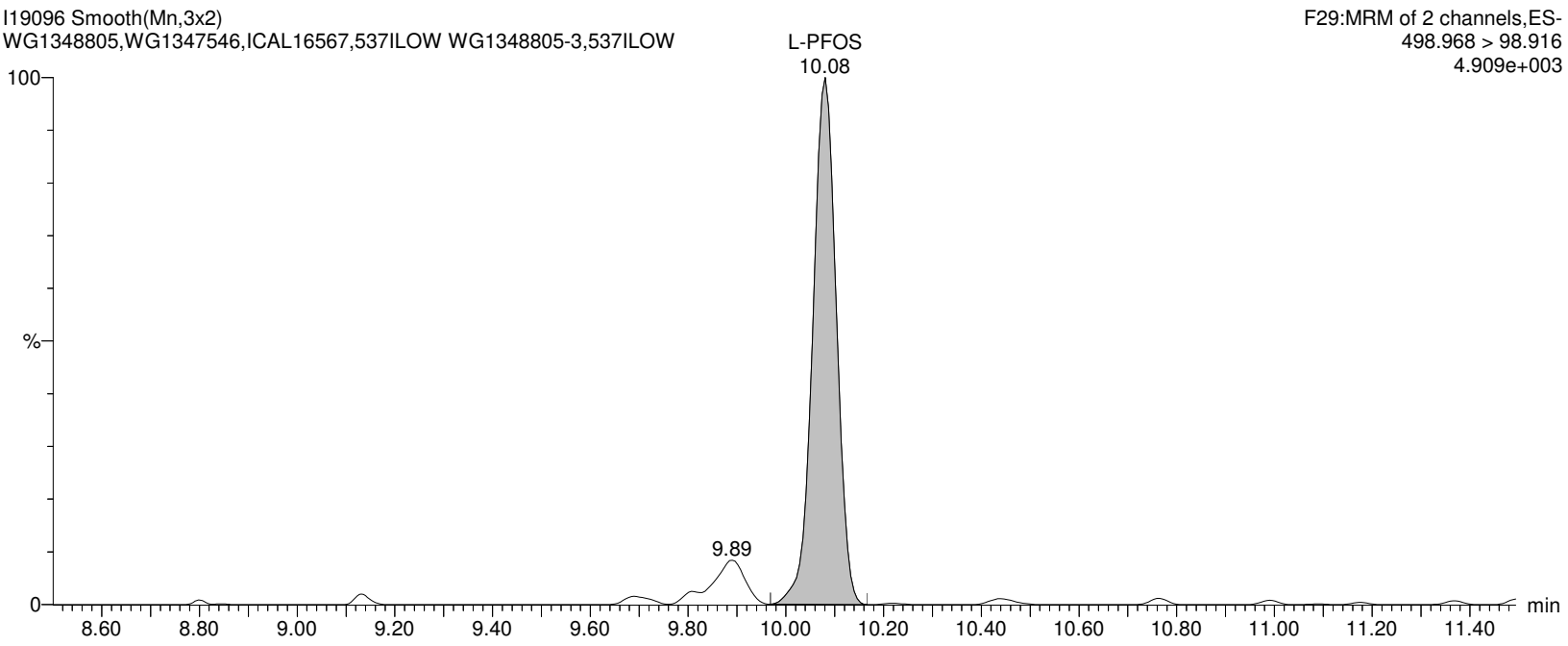

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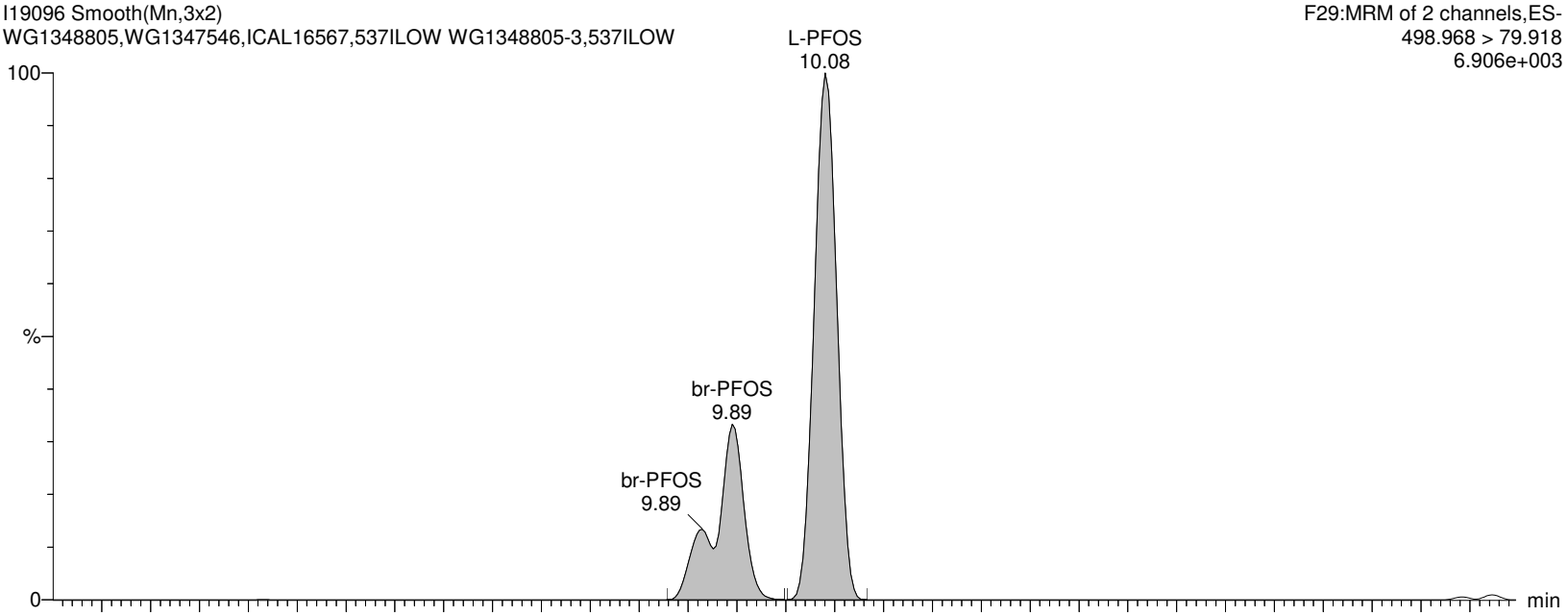
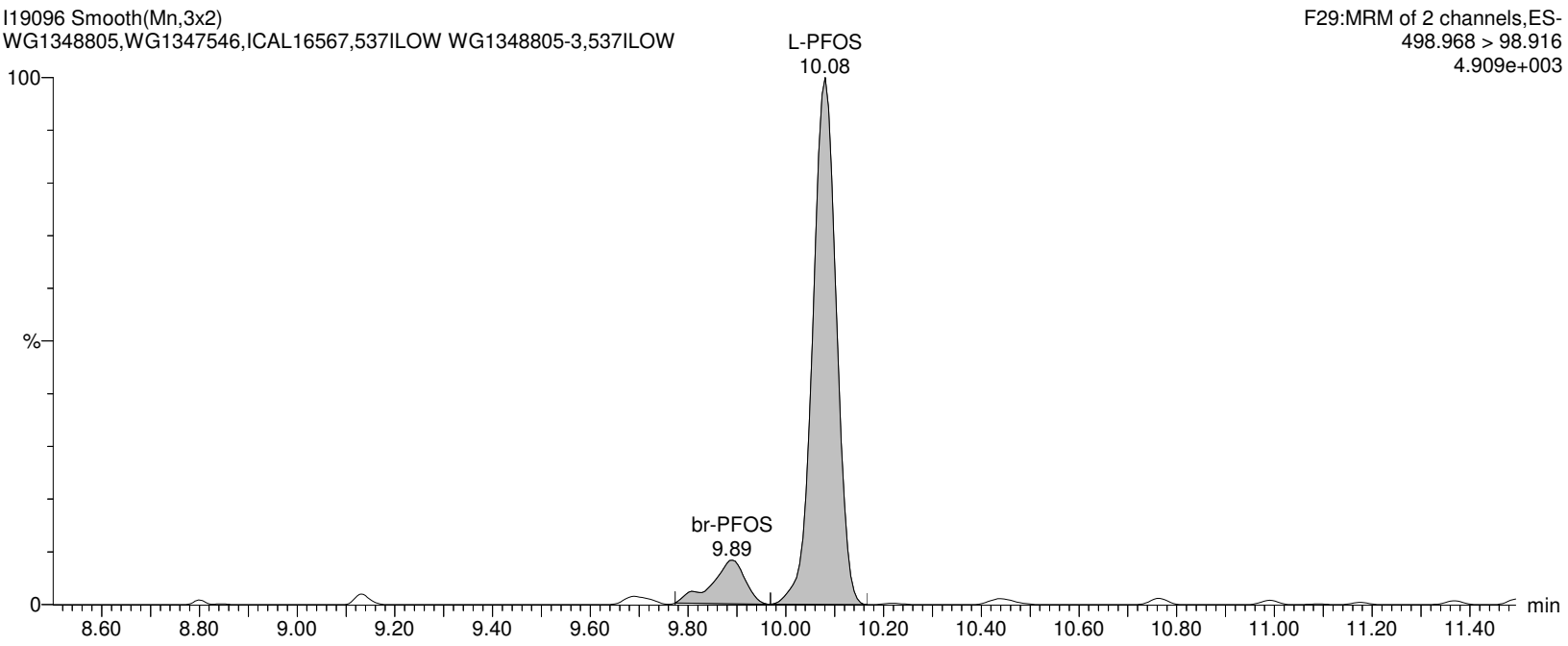
PFOS





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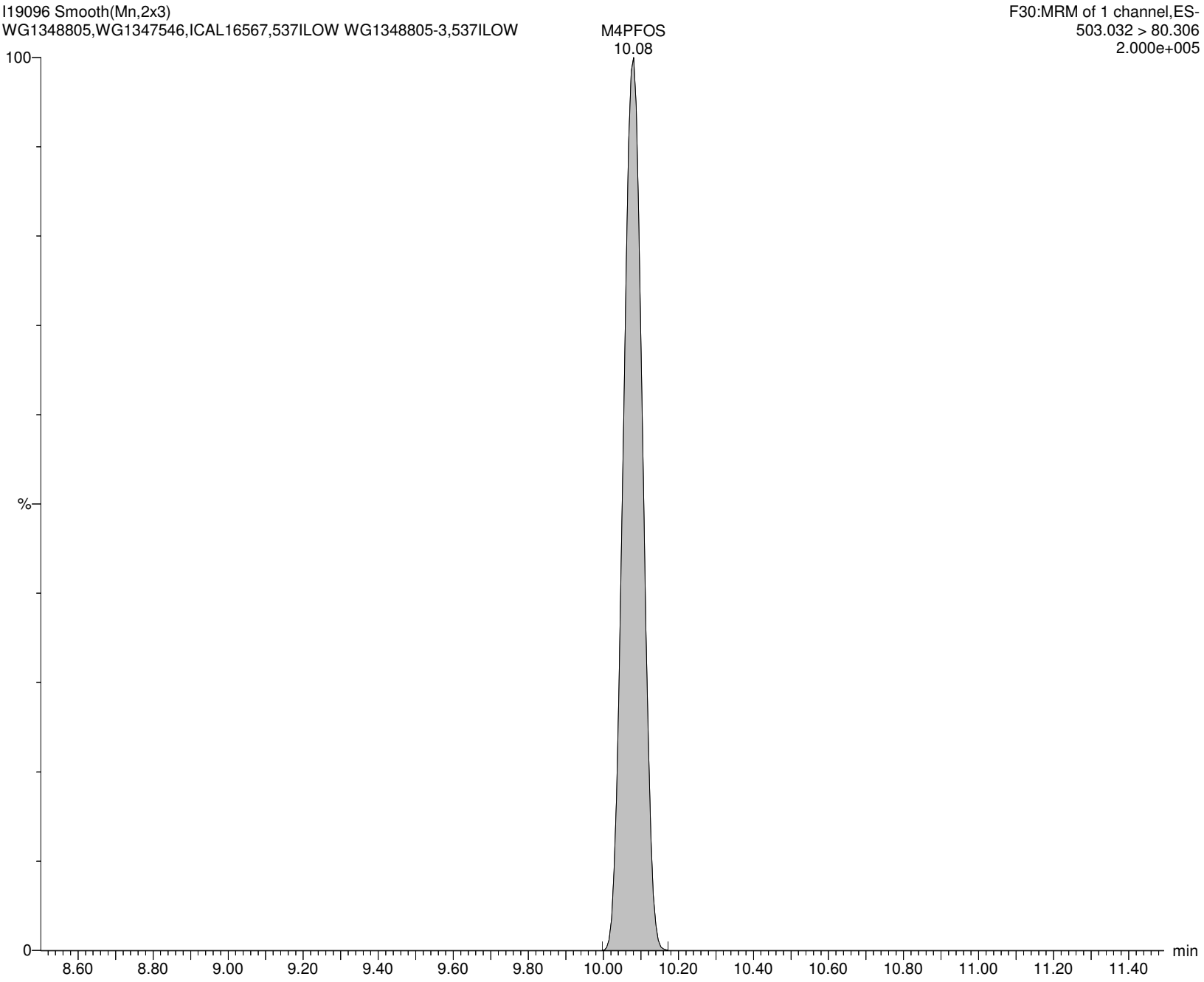

all concentration units in (ng/mL)

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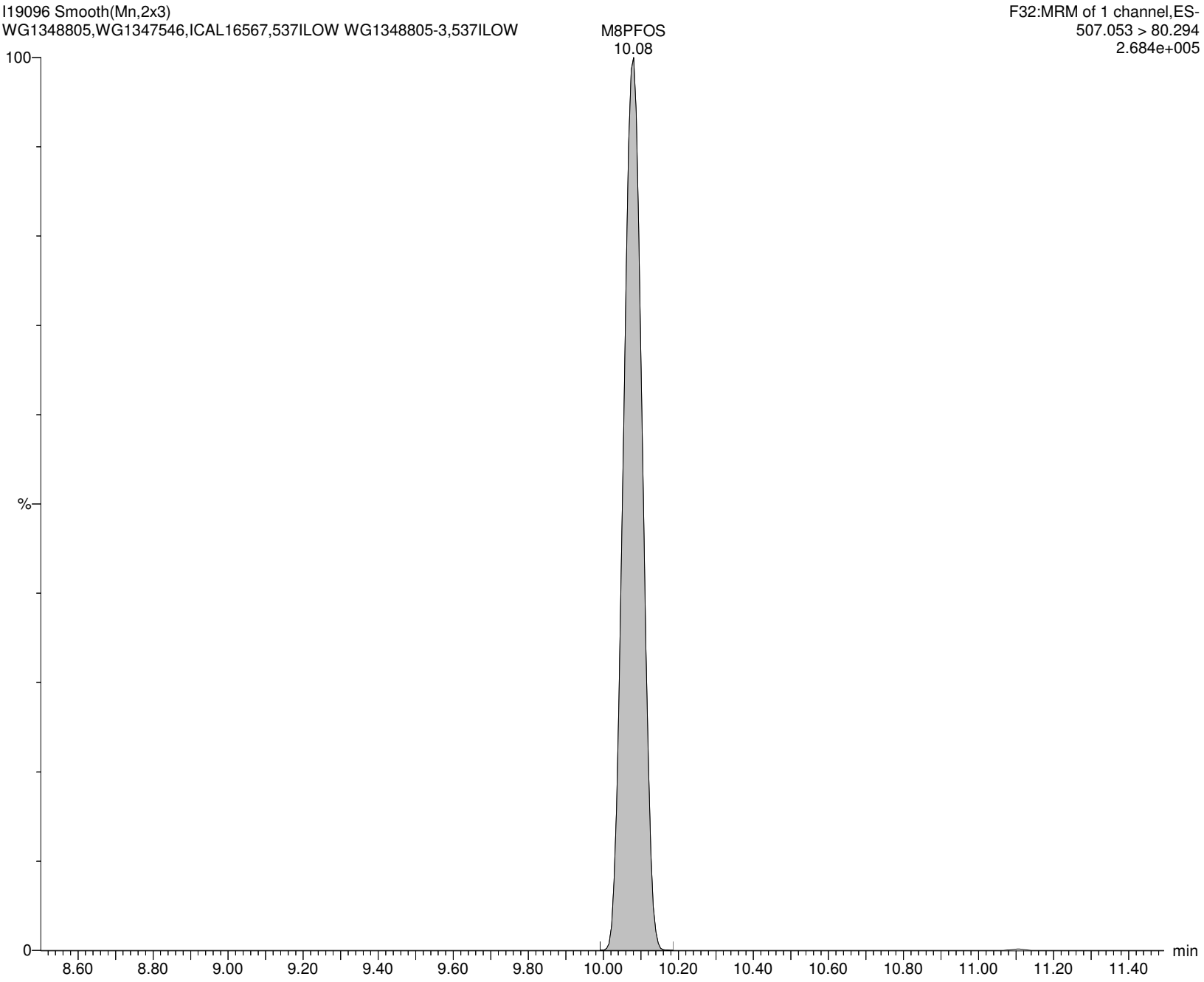

all concentration units in (ng/mL)

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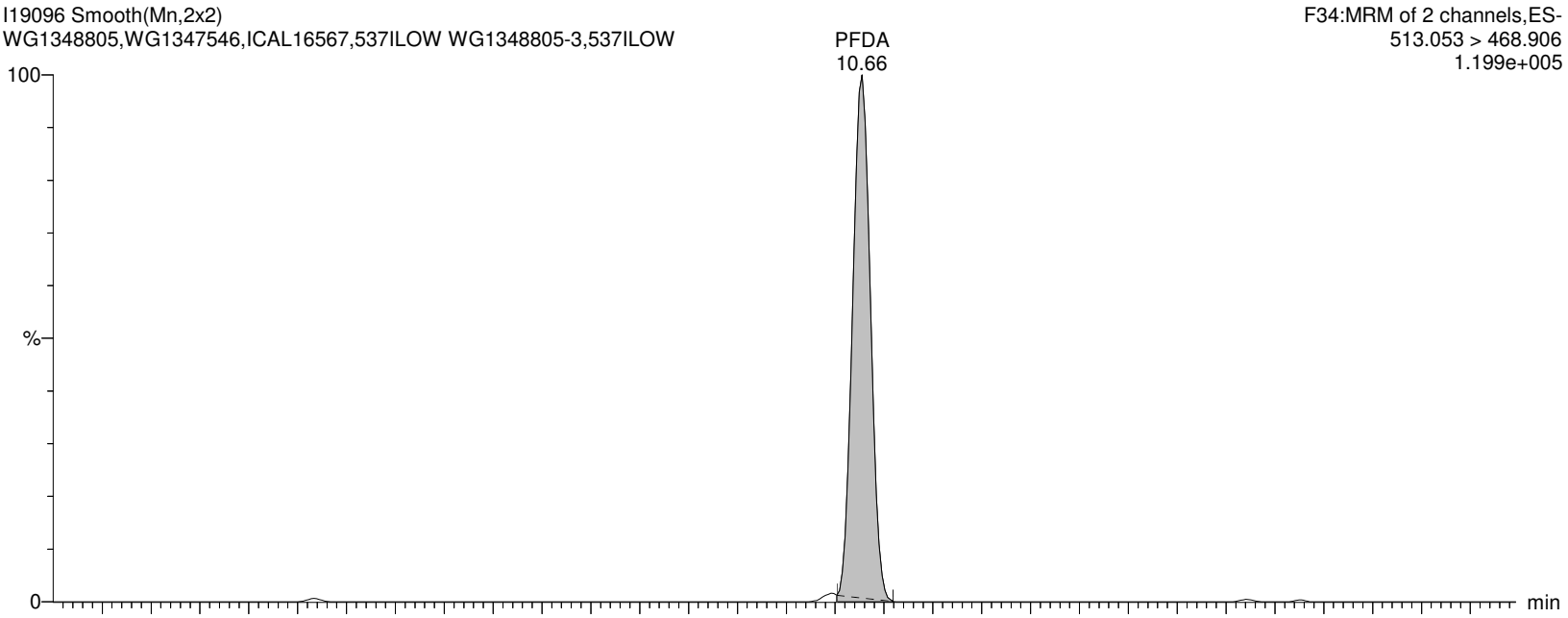

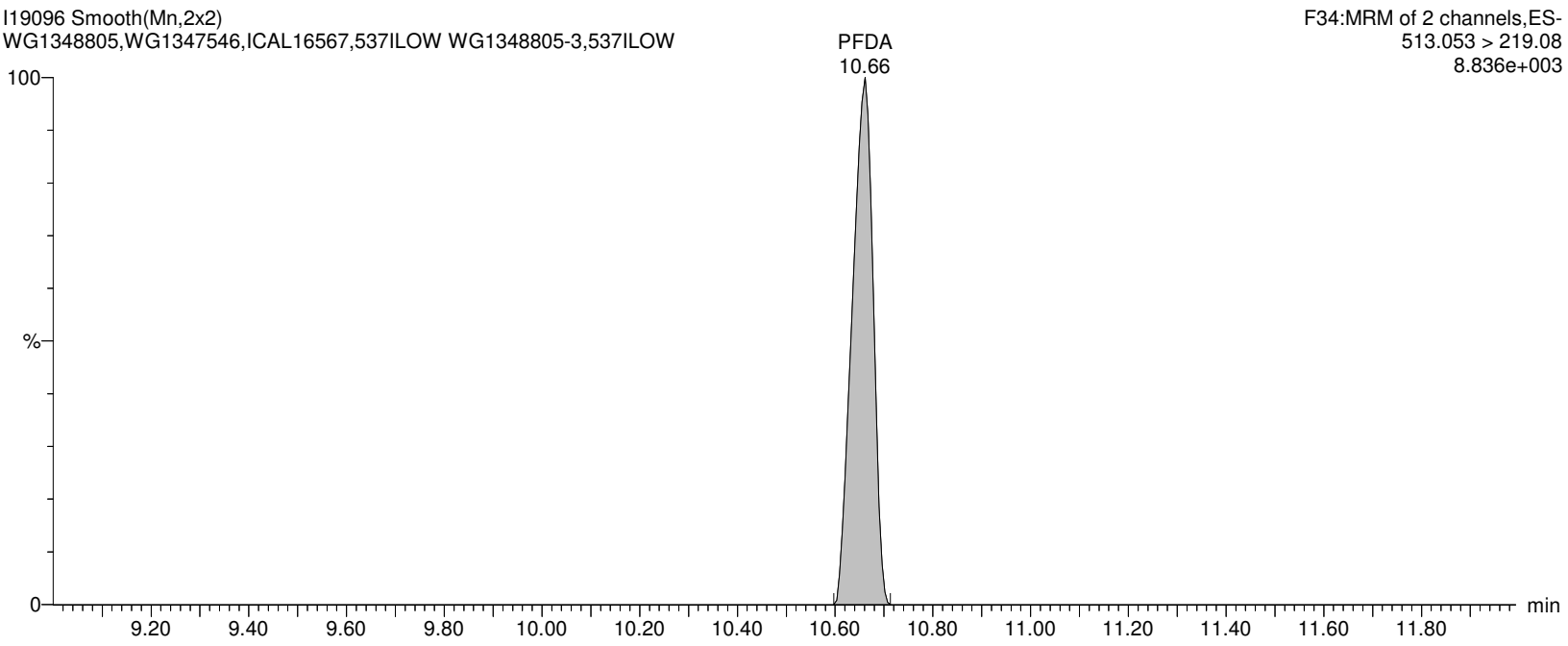

all concentration units in (ng/mL)

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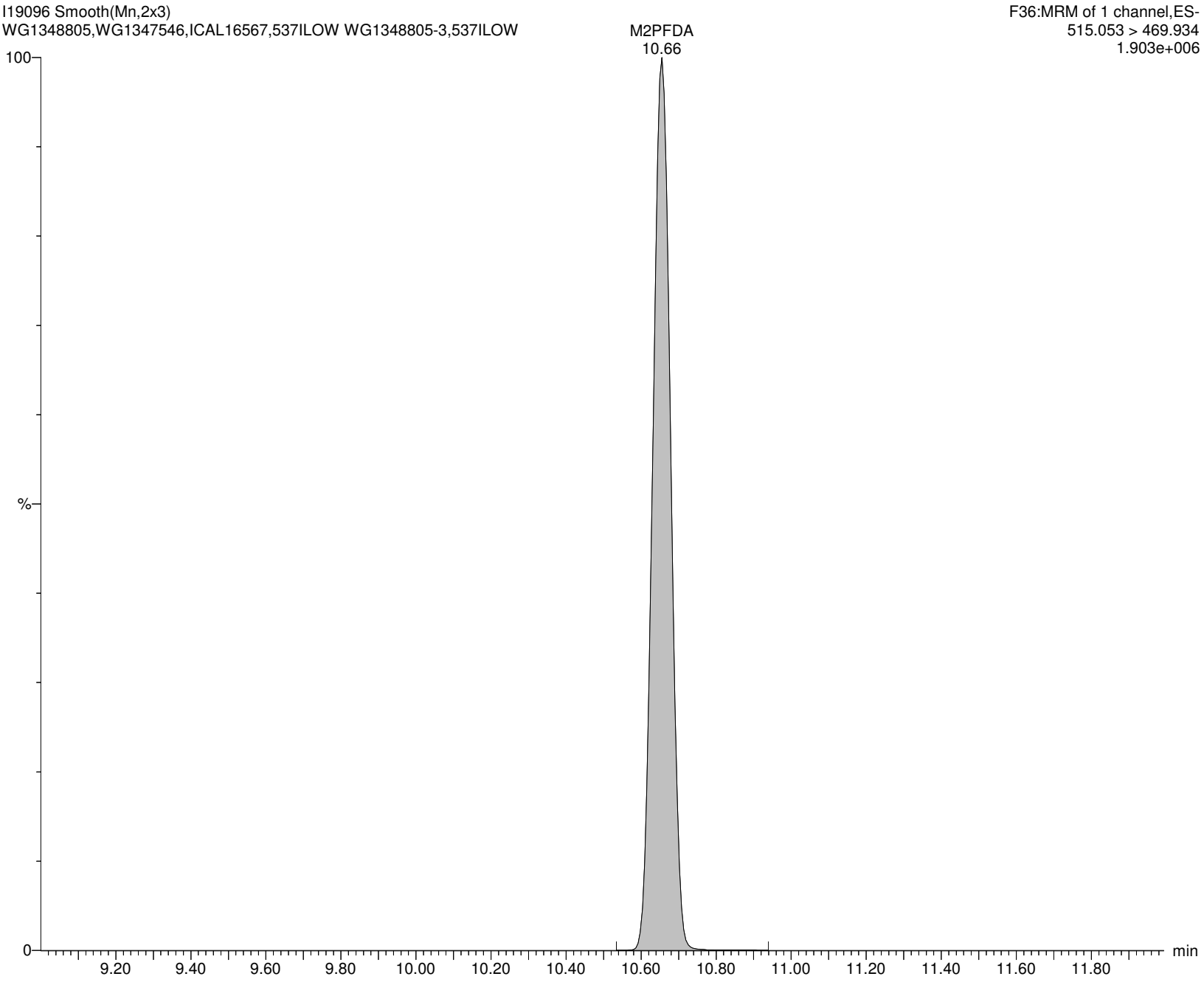

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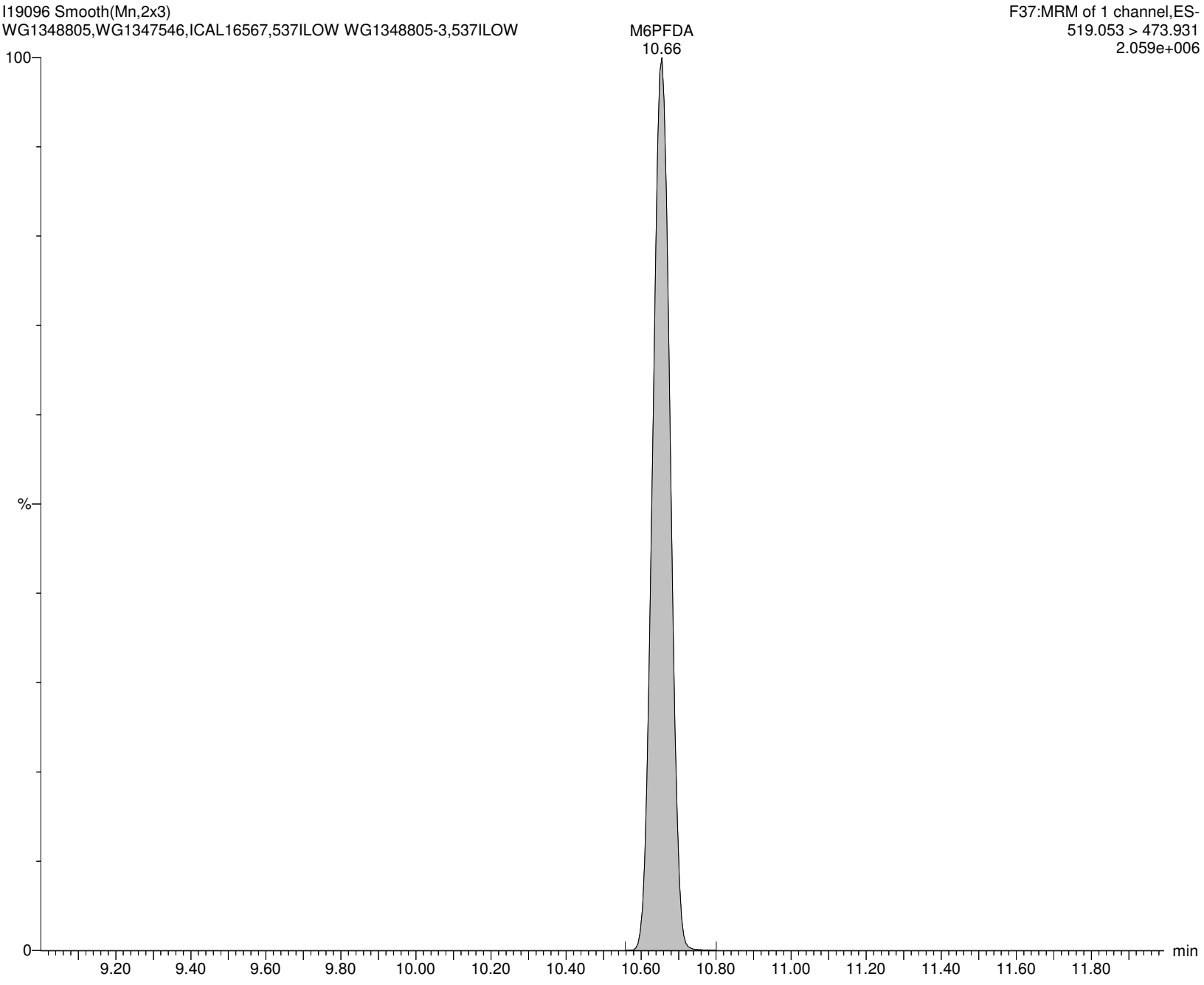

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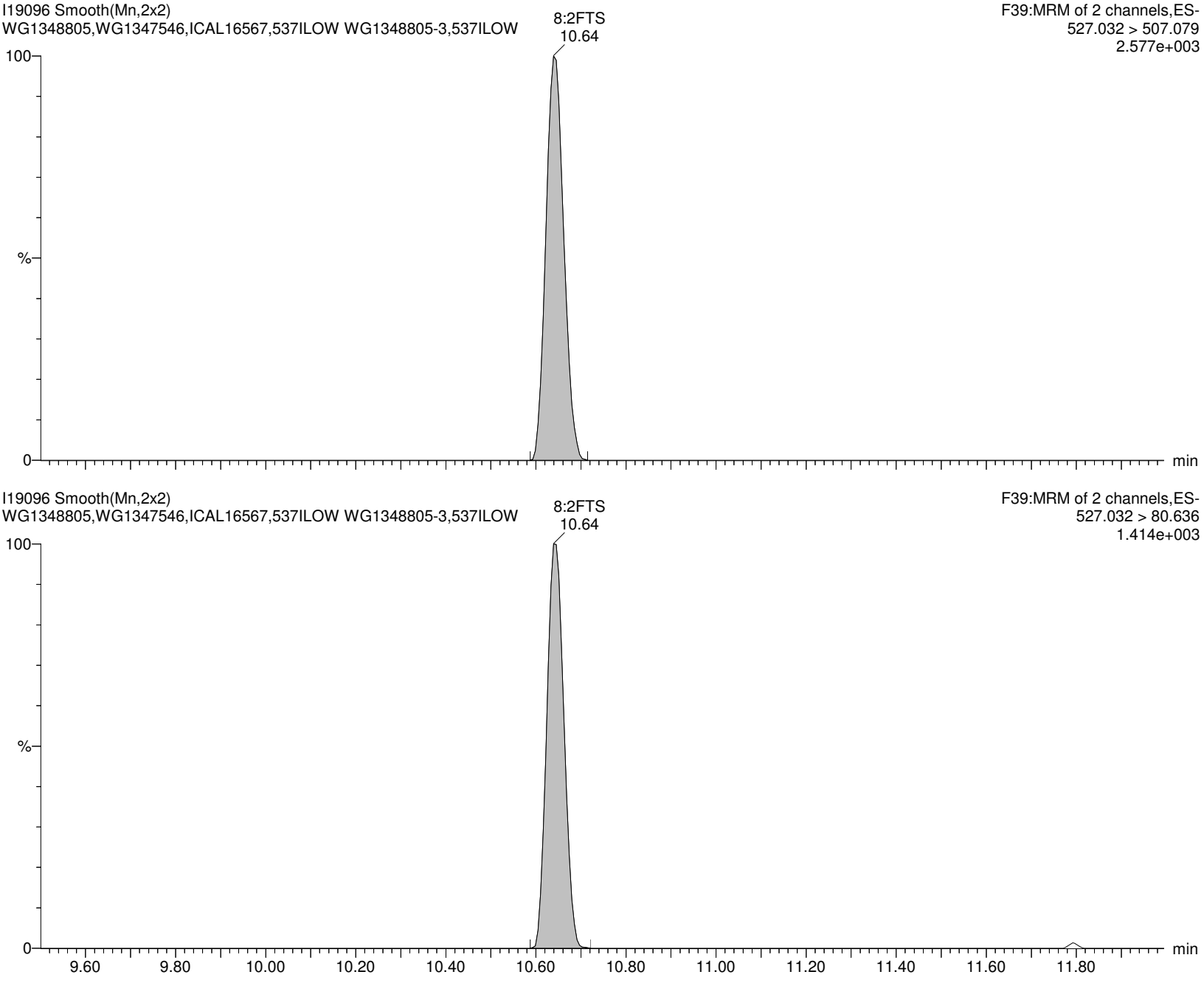
8:2FTS



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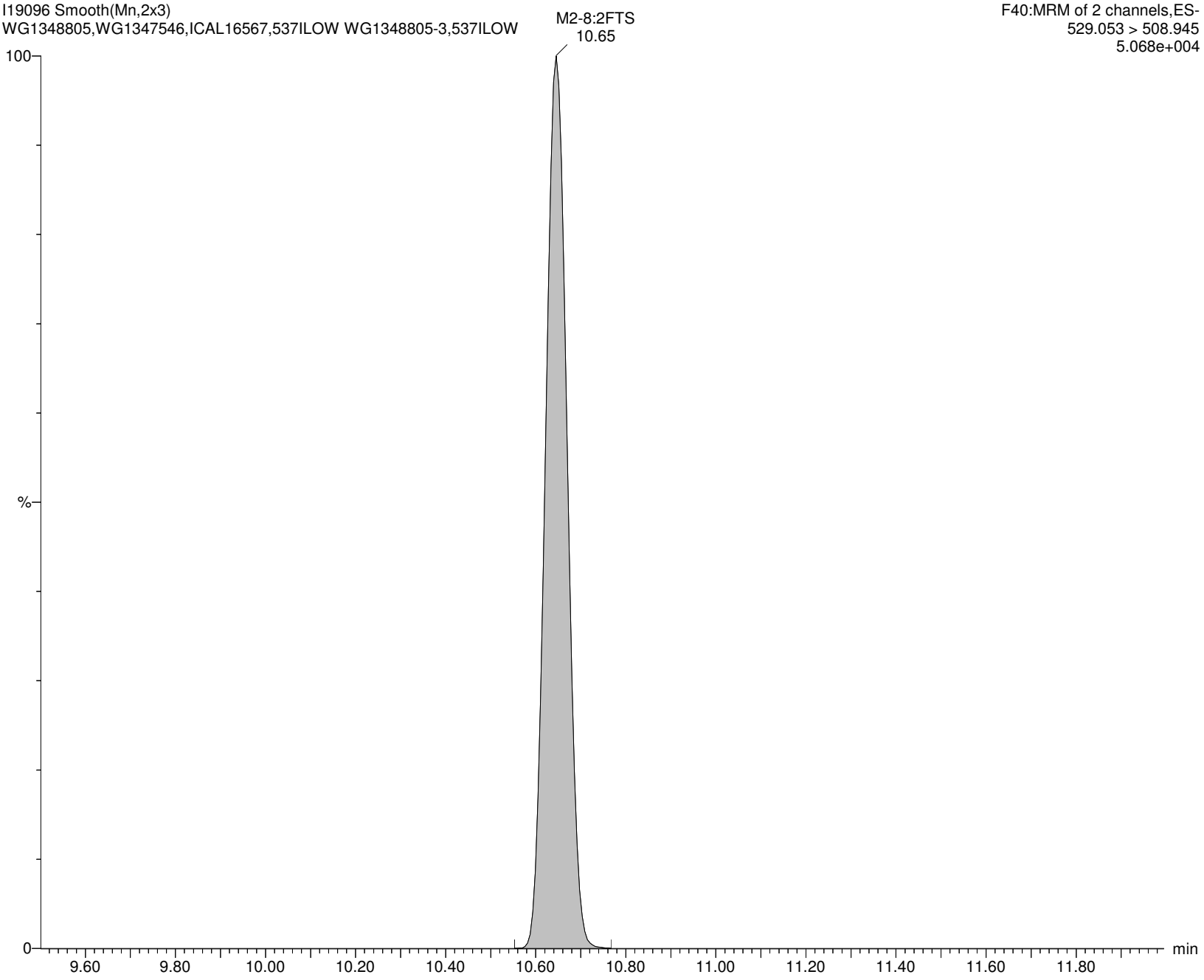
M2-8:2FTS



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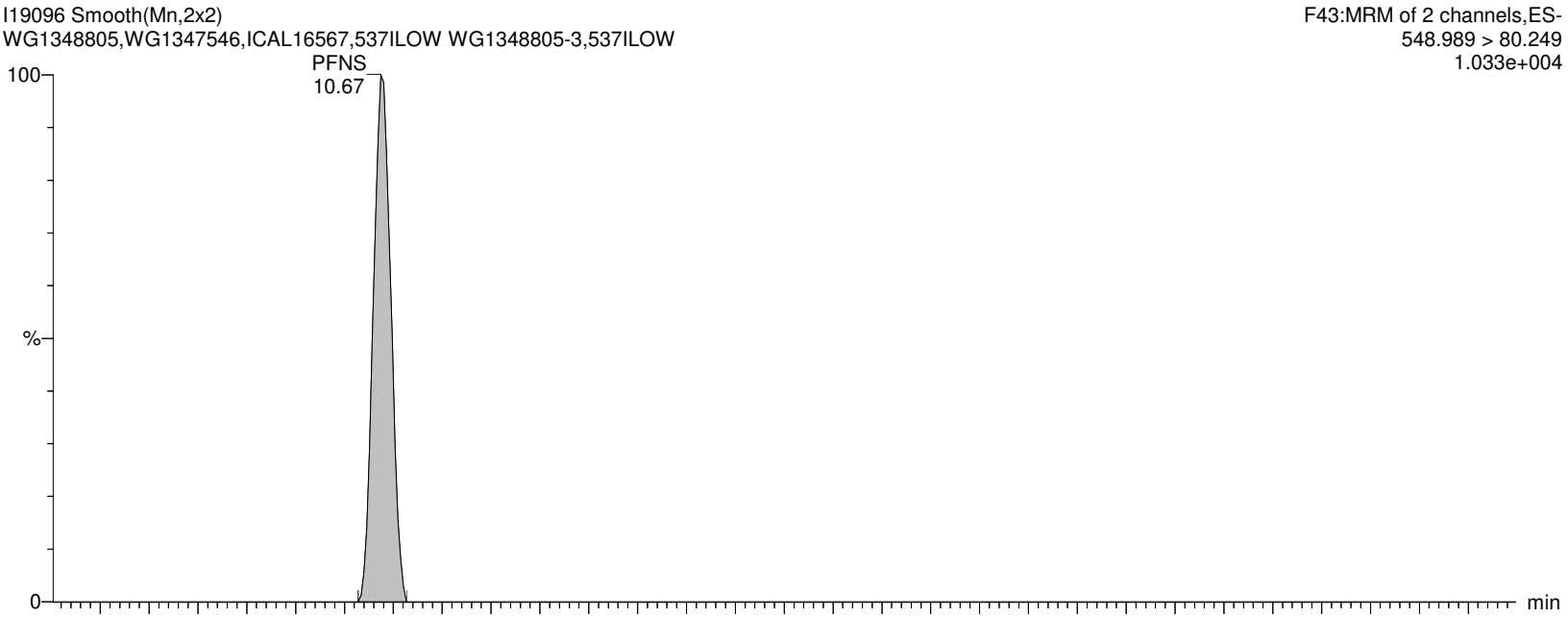

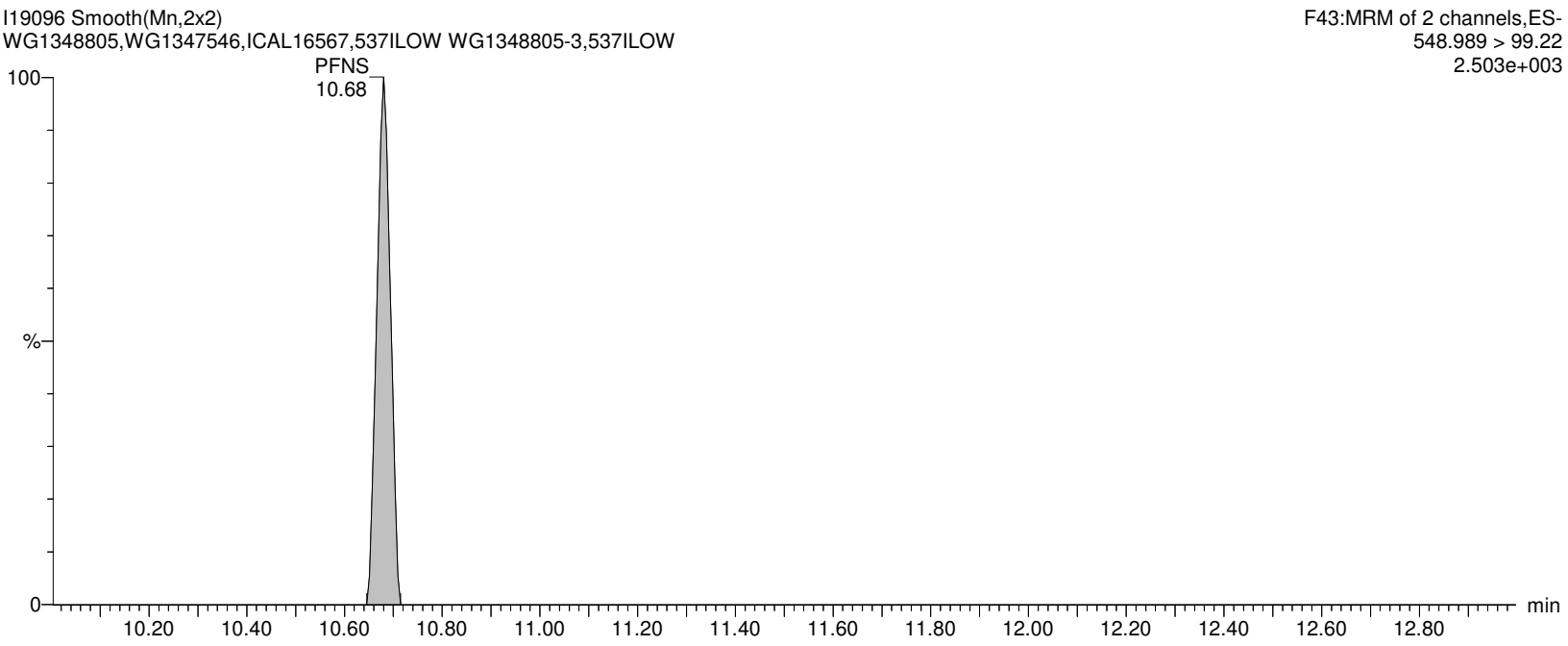

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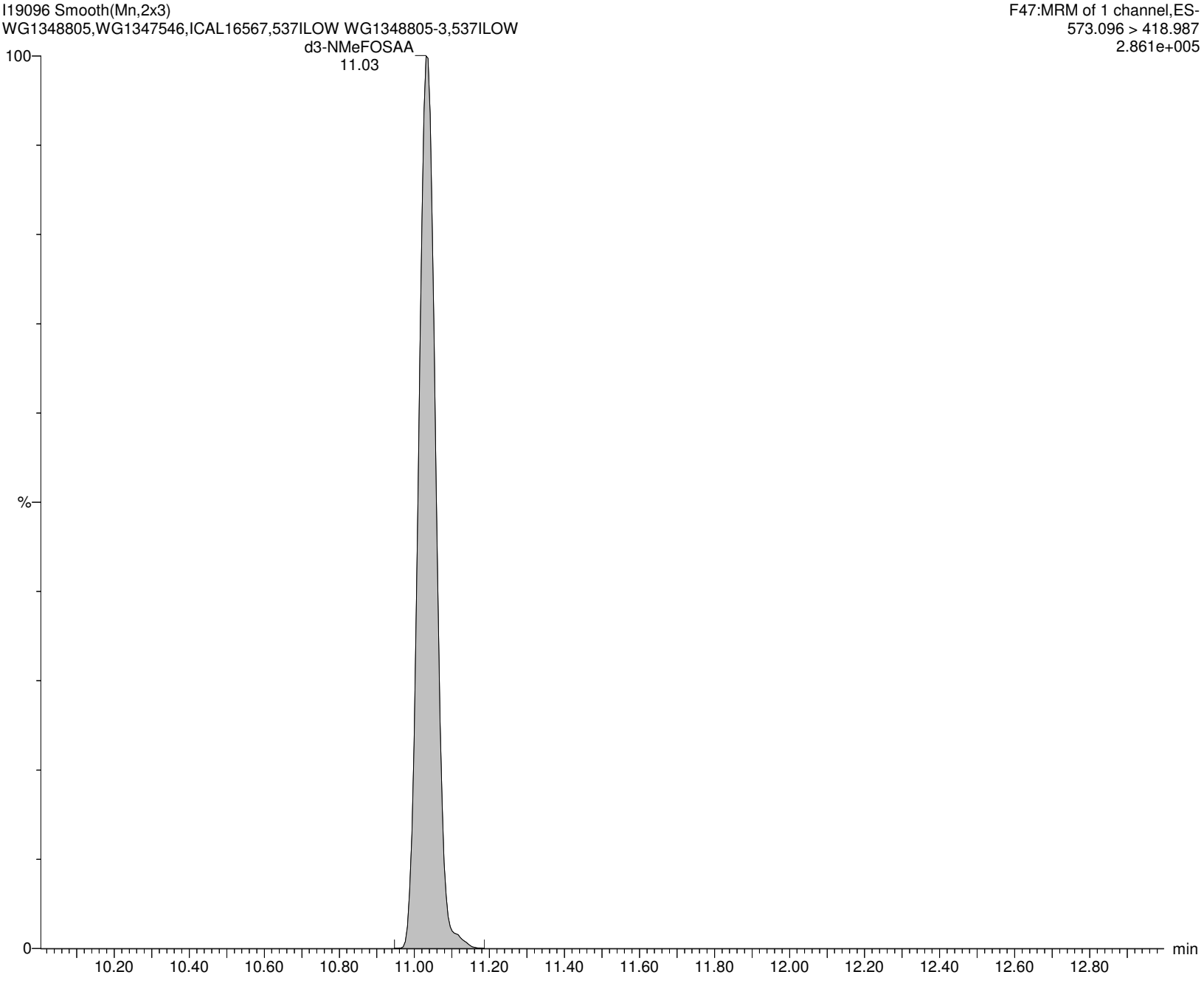

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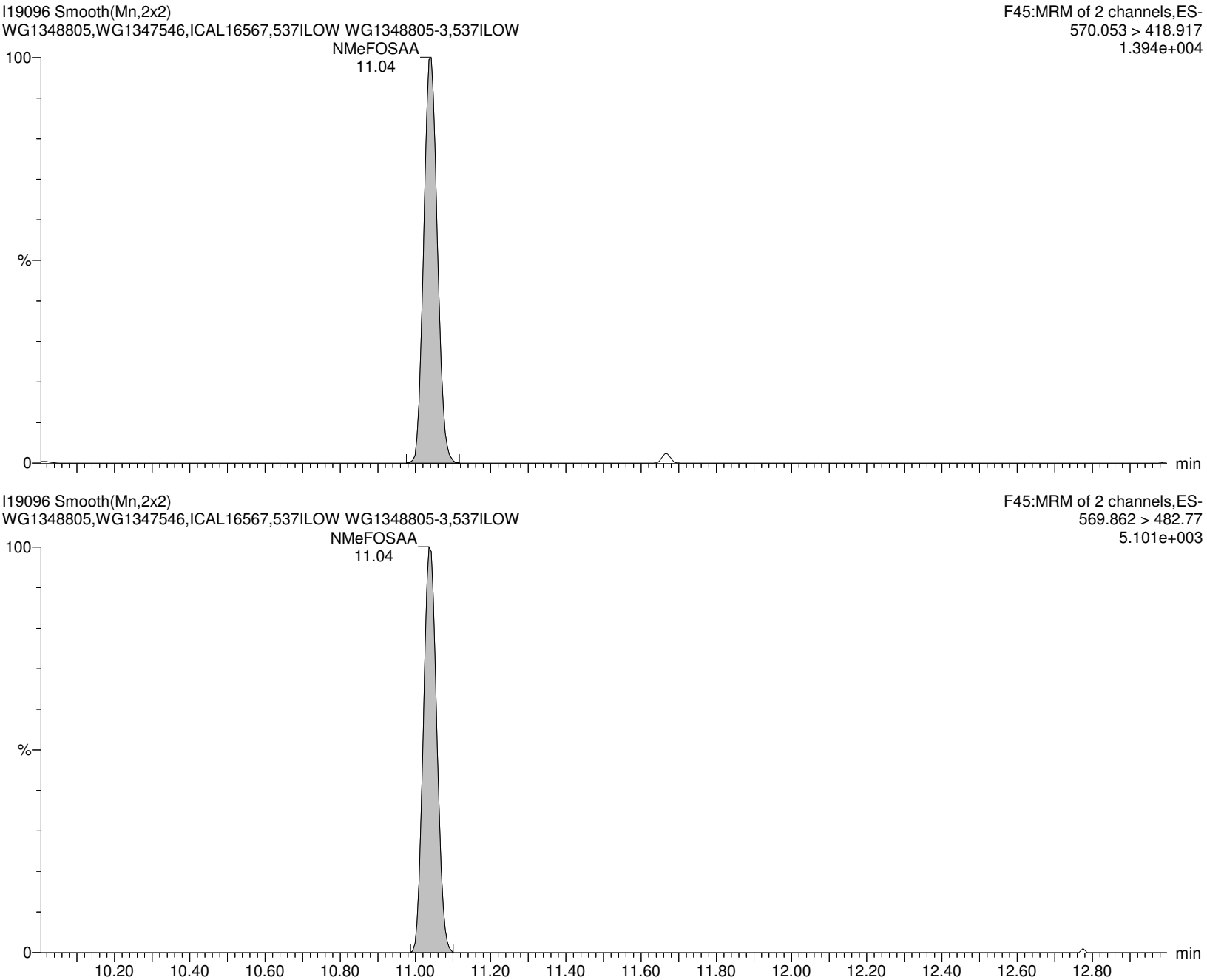

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805B.qld
Last Altered: Tuesday, March 10, 2020 15:04:16 Eastern Daylight Time
Printed: Tuesday, March 10, 2020 20:10:14 Eastern Daylight Time

Name: I19096
ID: WG1348805-3,537ILOW
Date: 09-Mar-2020
Time: 20:21:47
Description: WG1348805,WG1347546,ICAL16567,537ILOW
User: LCMS01:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
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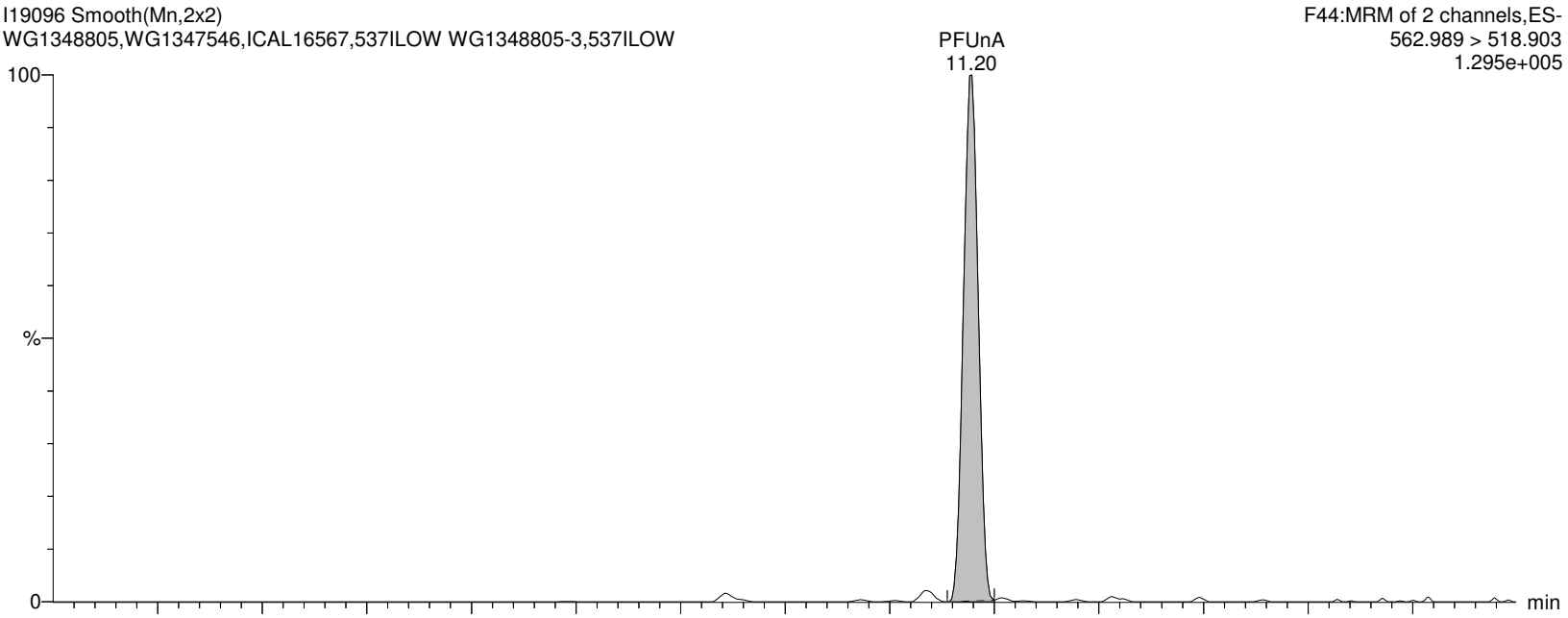

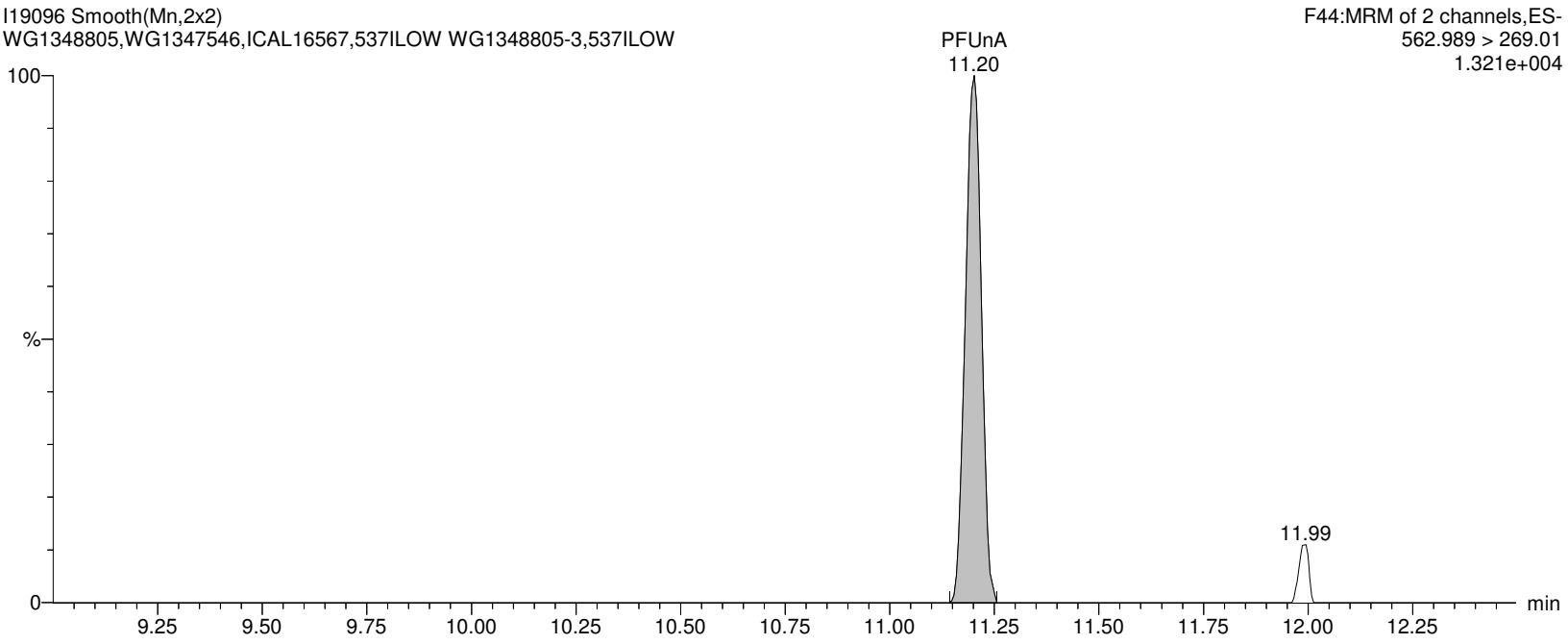

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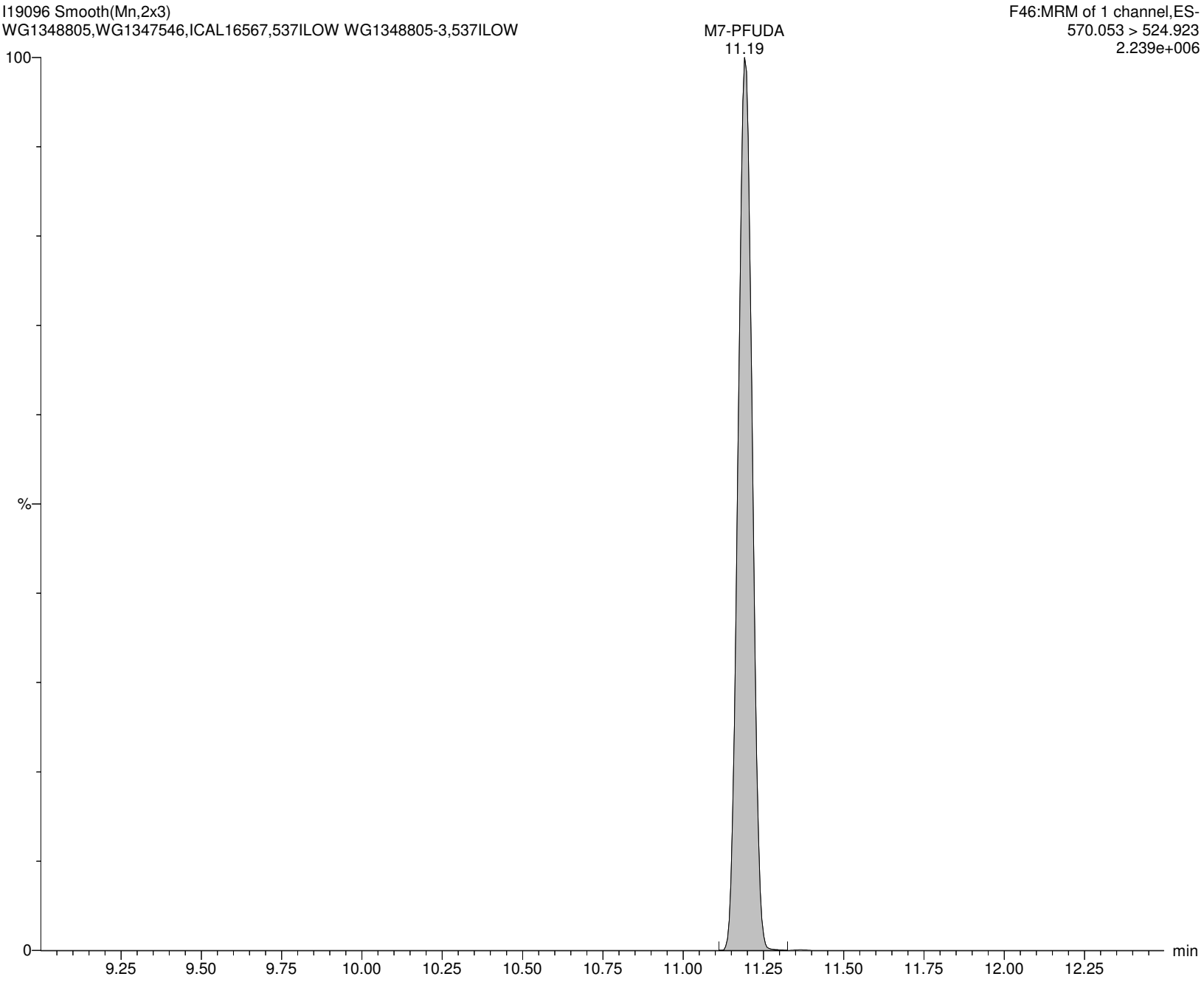

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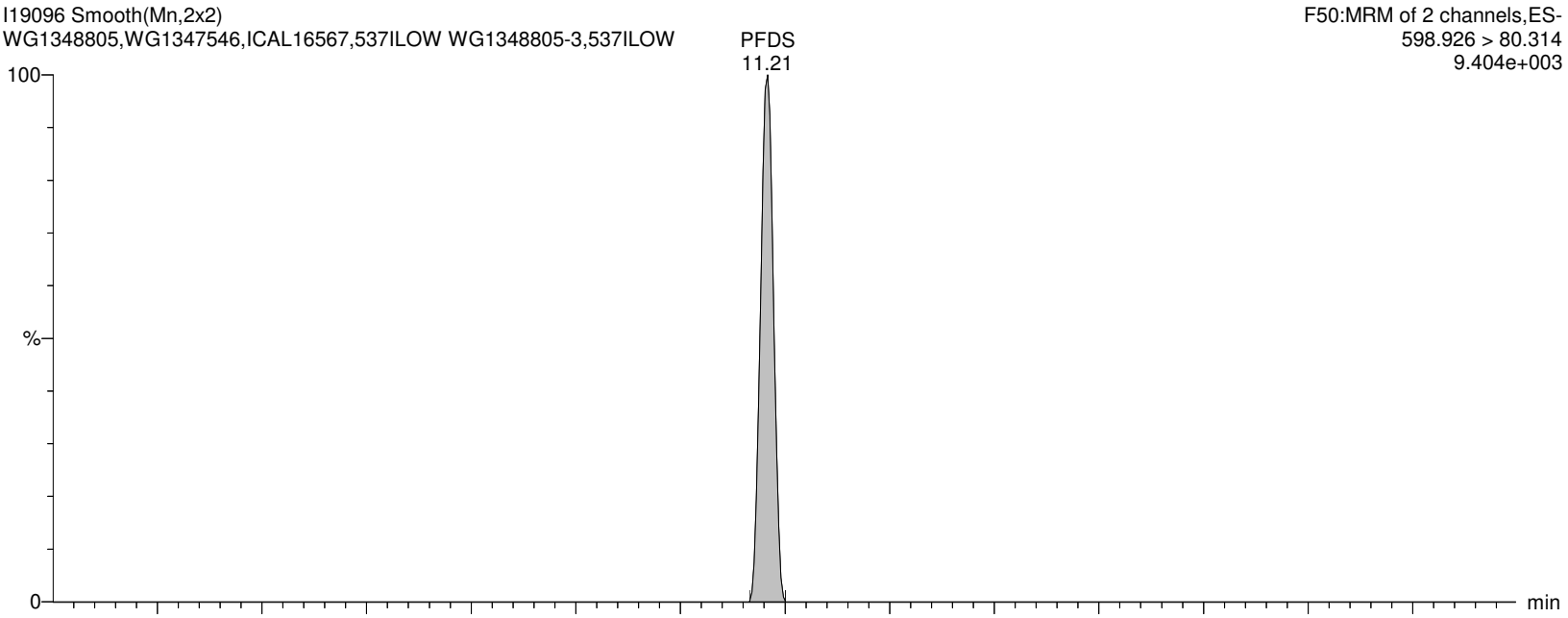

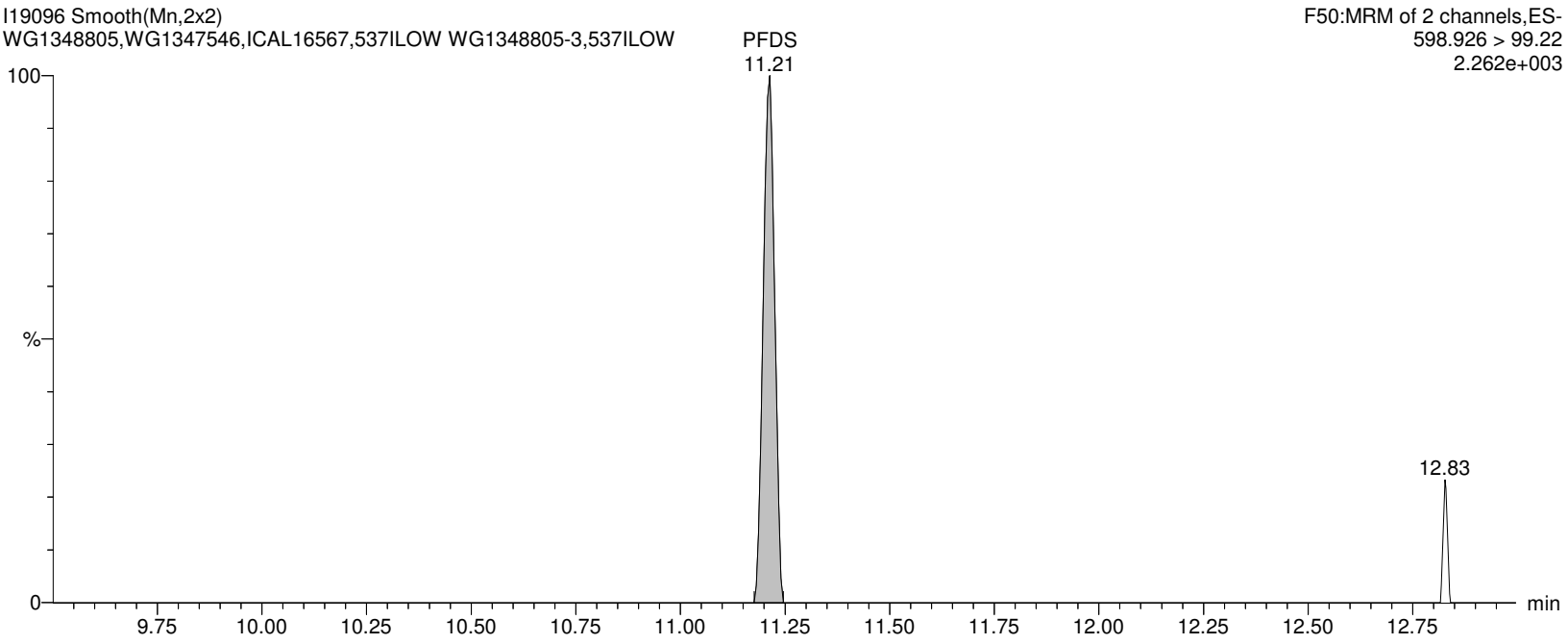

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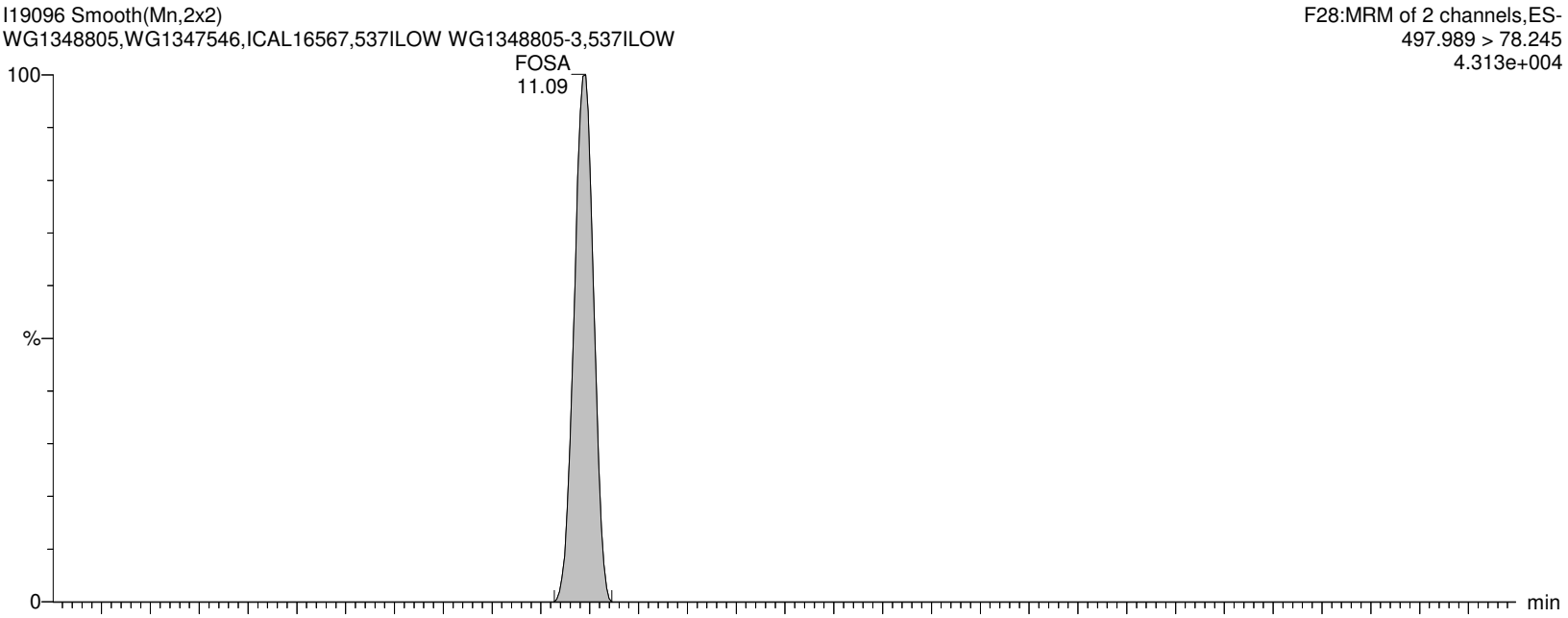
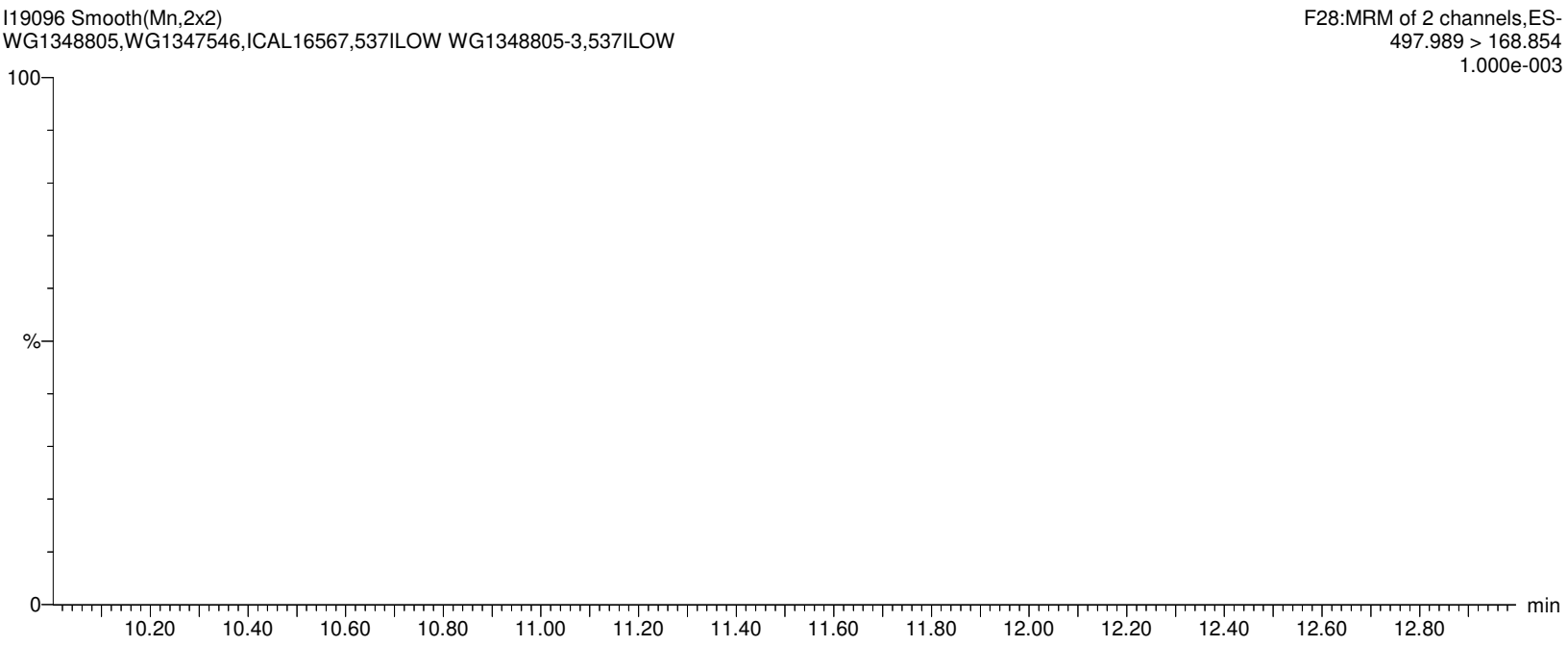
FOSA





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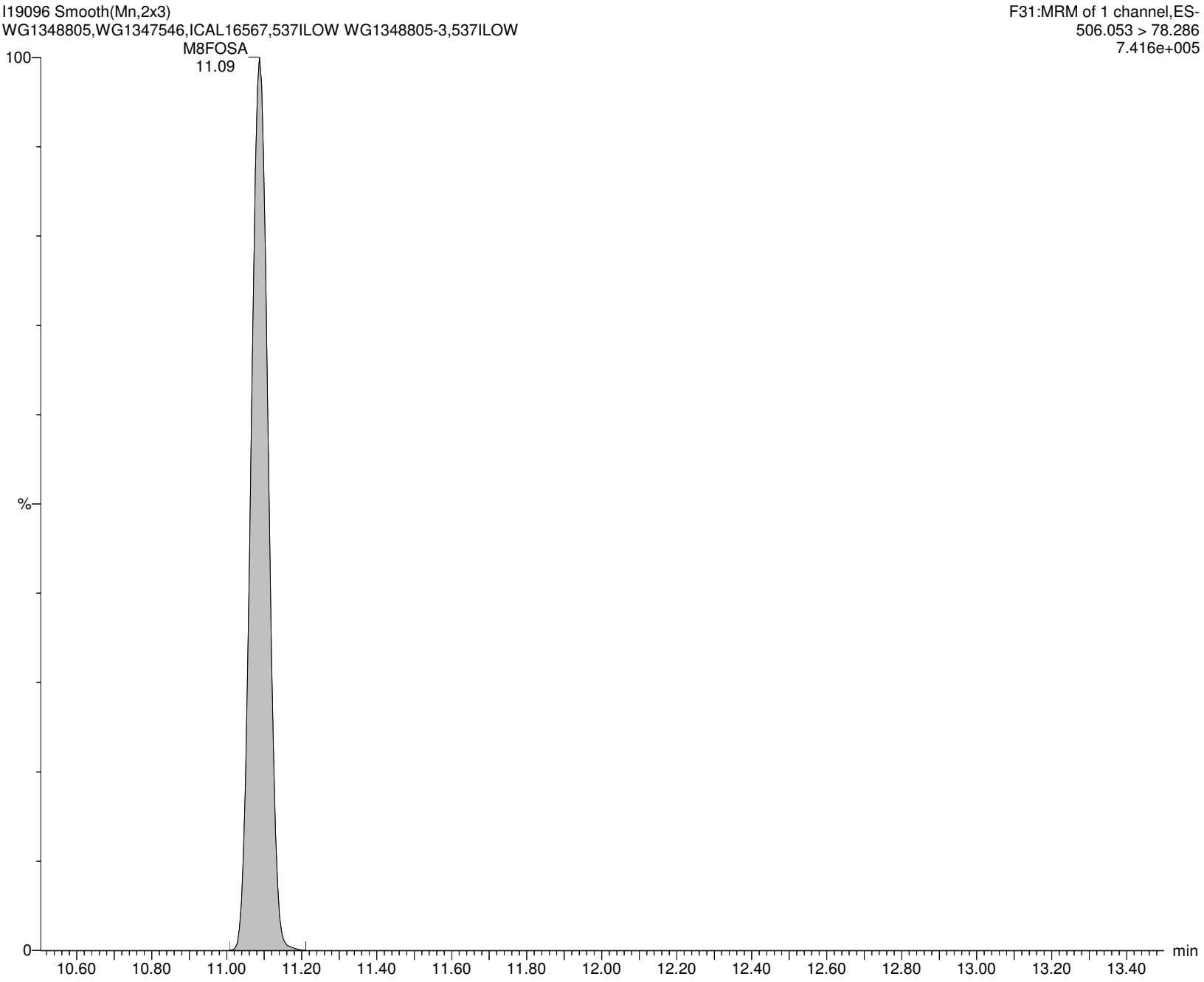

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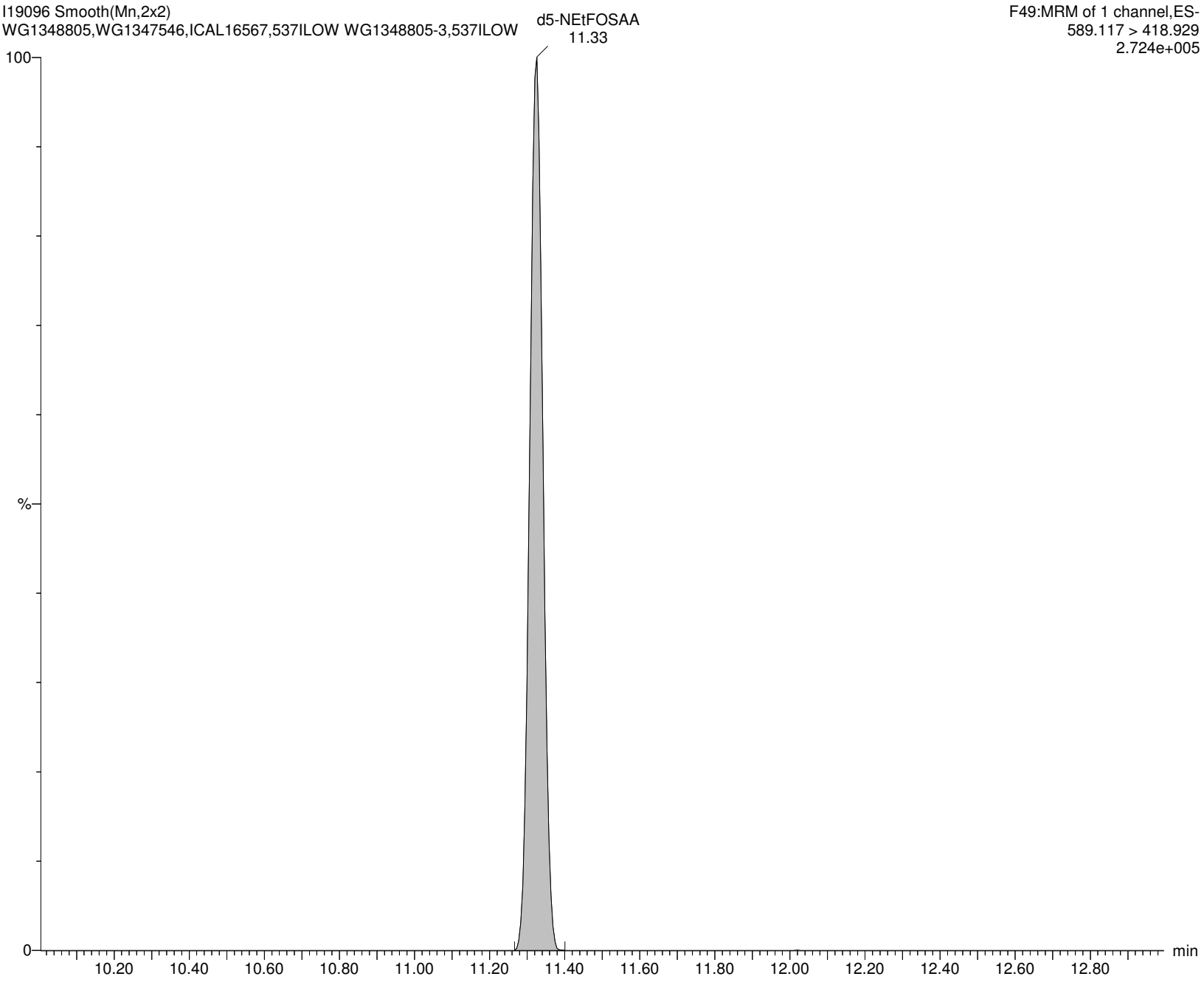

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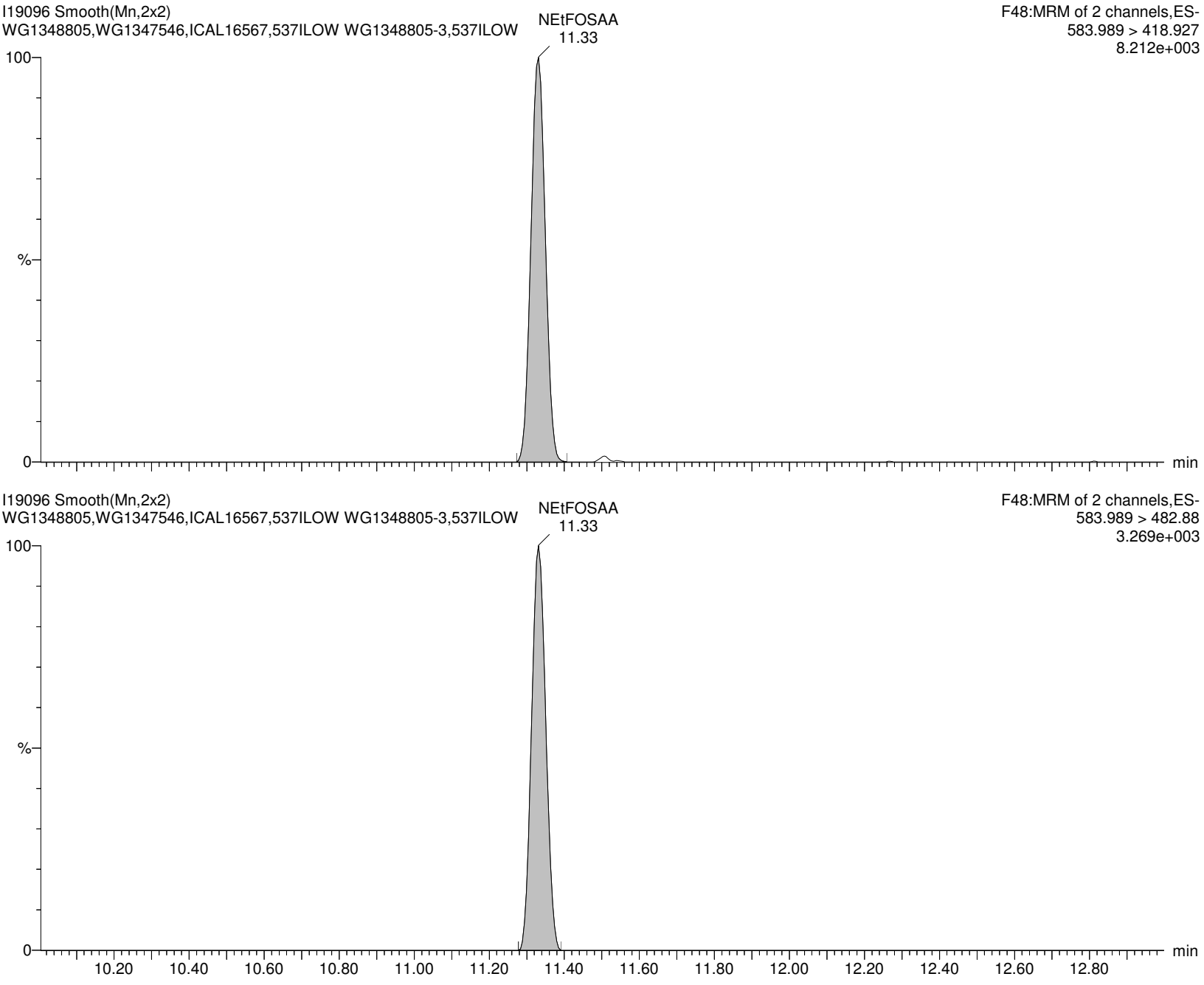
NEtFOSAA



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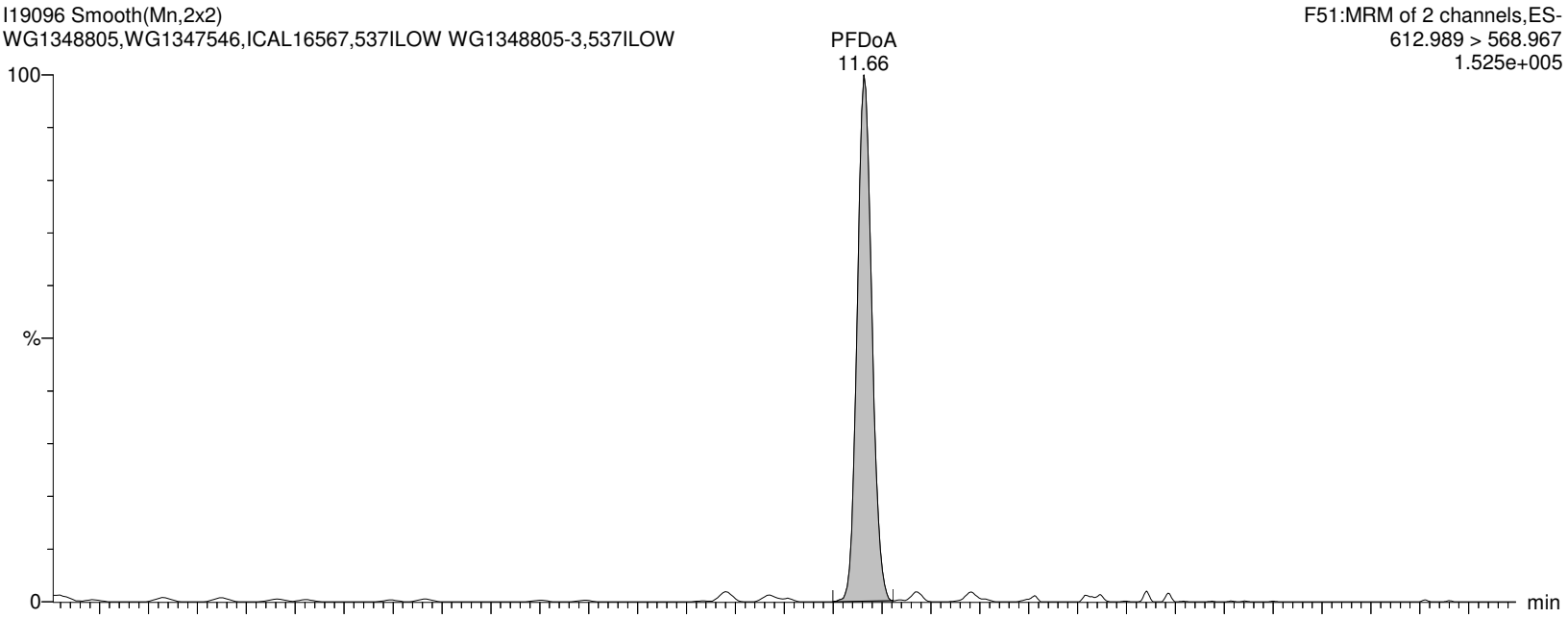

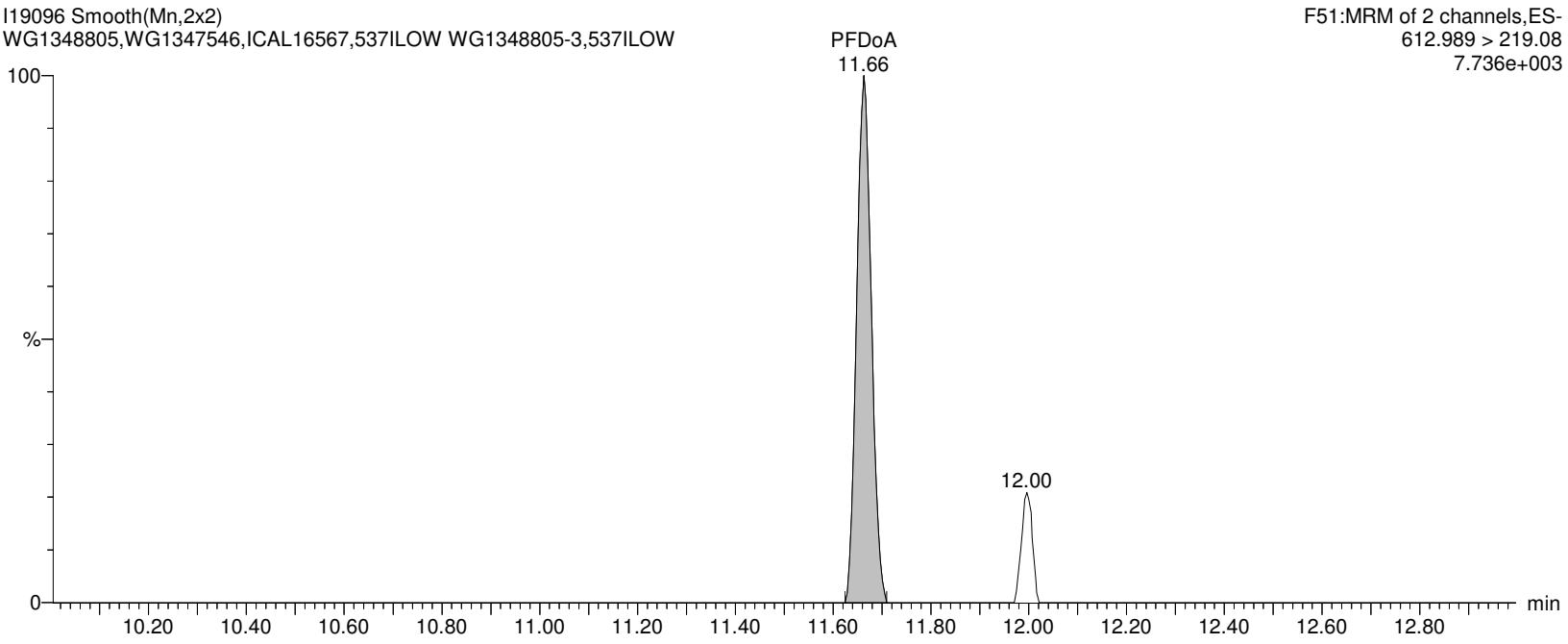

all concentration units in (ng/mL)

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Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEA0276
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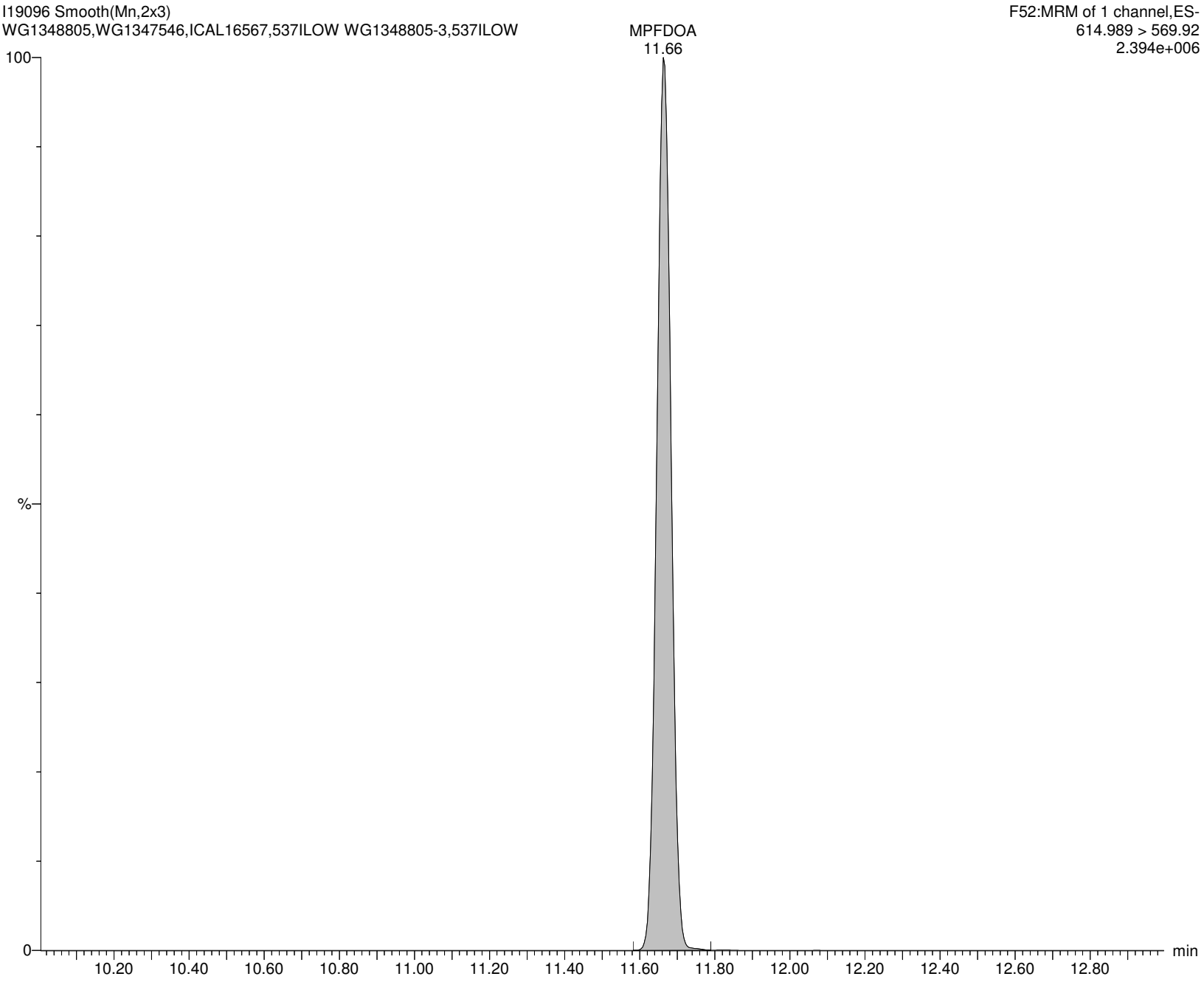

all concentration units in (ng/mL)

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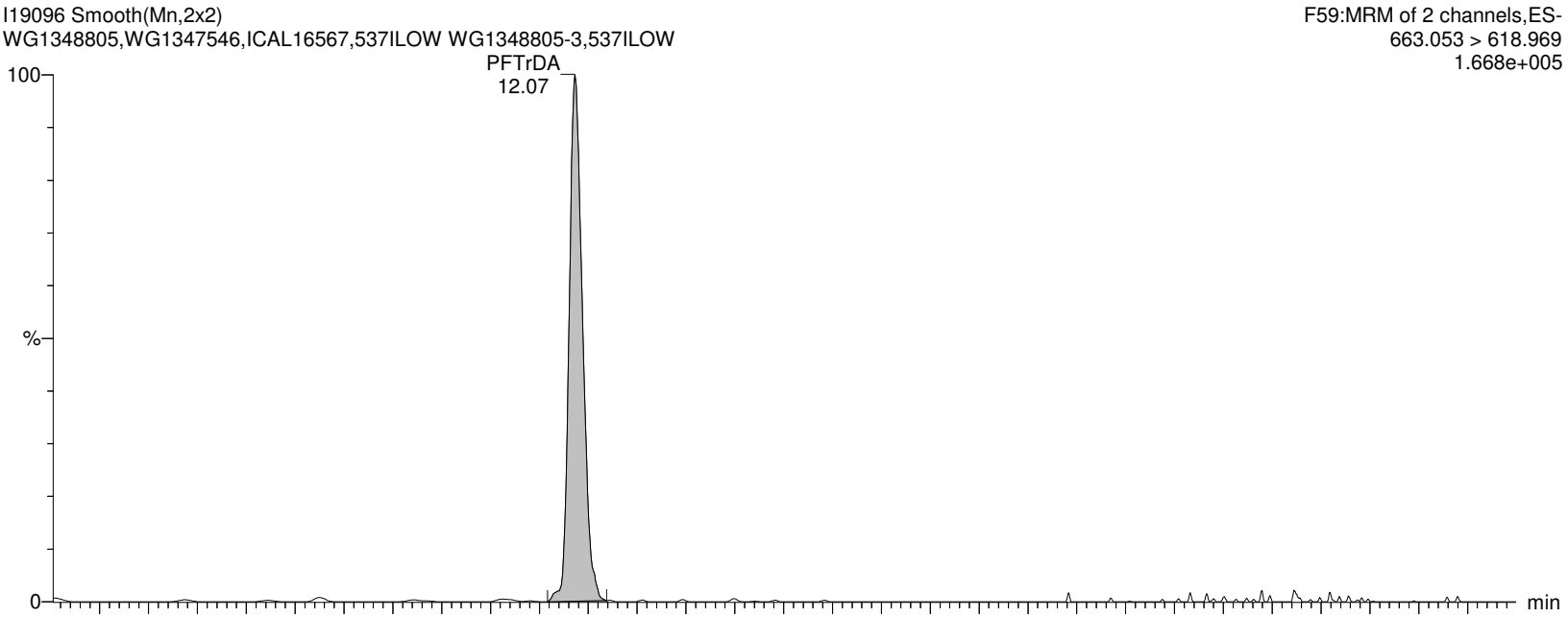

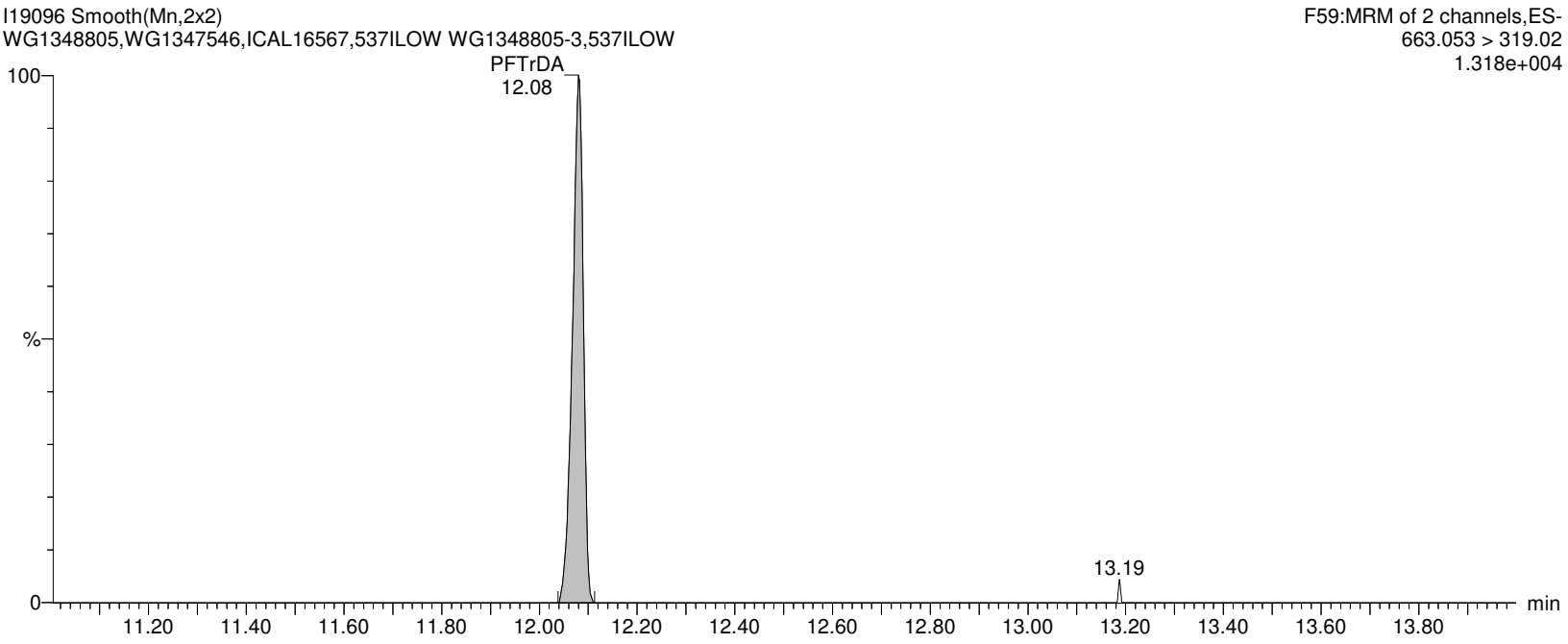

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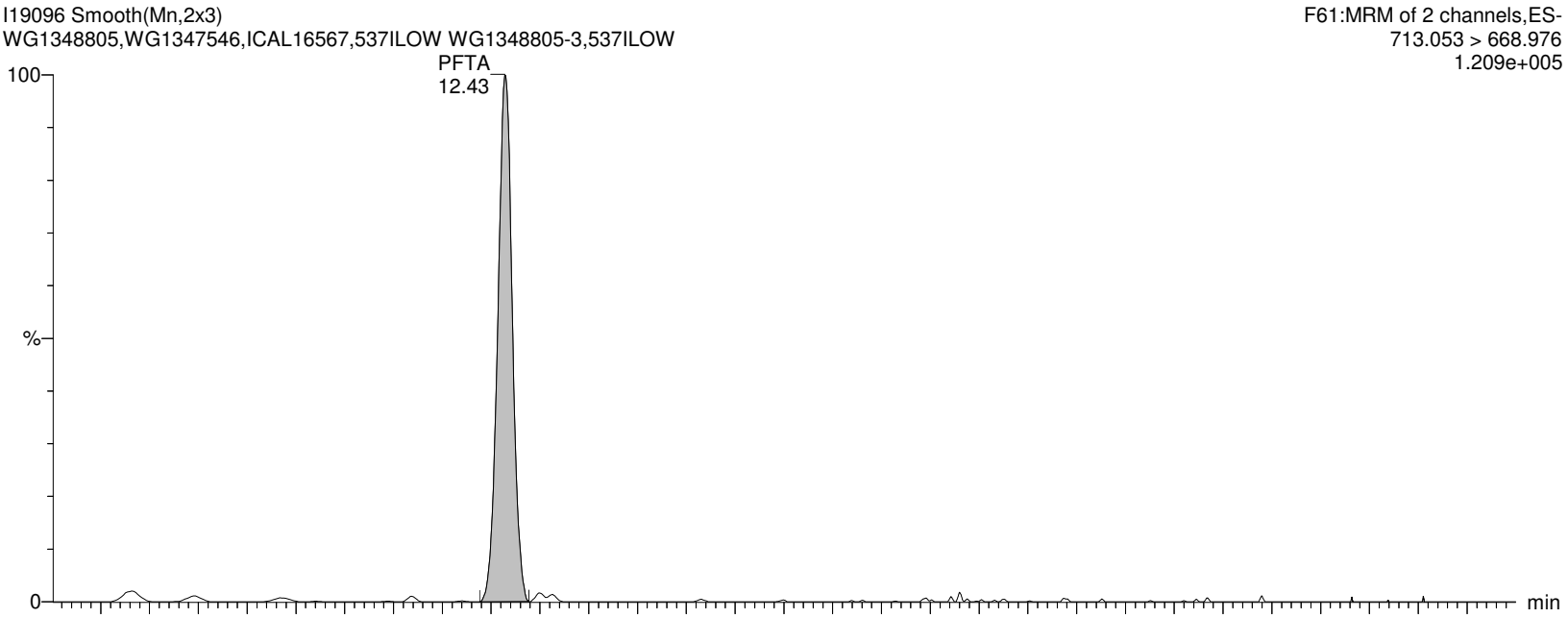

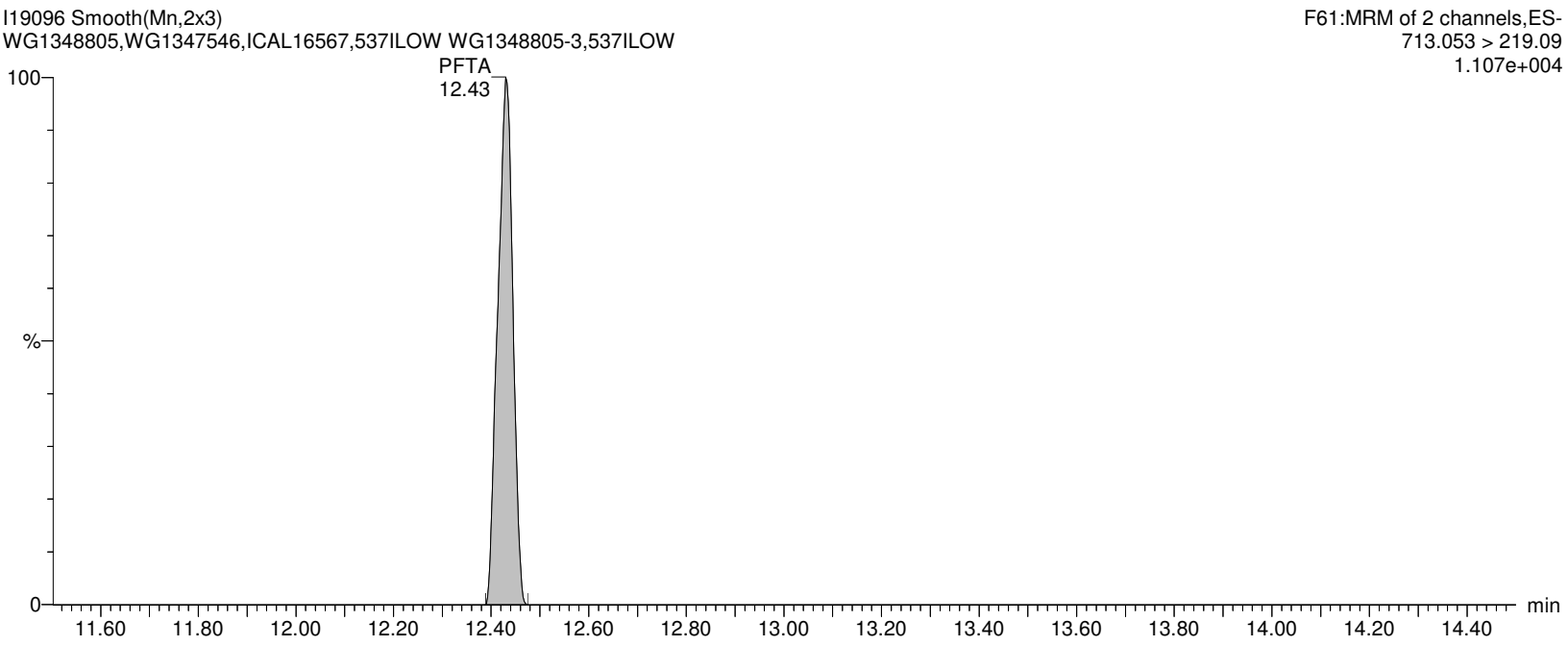

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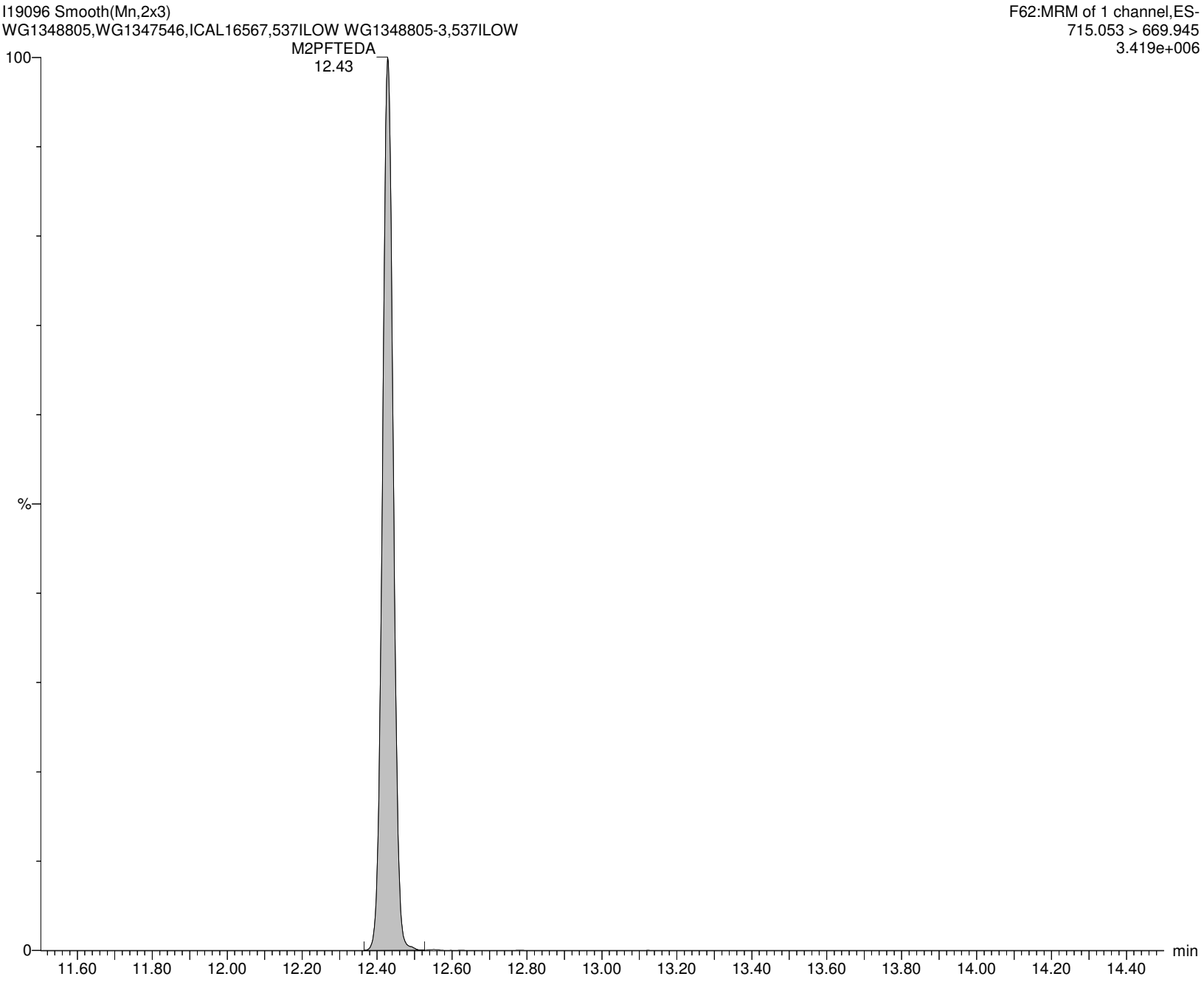

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, March 12, 2020 02:48:34 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2020\200309_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 14:41:42

ID: WG1348954-1,537ILOW
Name: I20398
Date: 10-Mar-2020
Time: 10:15:45
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User: LCMS02:RS
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	2352		0.480		na	96.1
2	M3PFBA	INT STD	2.20	215.926 > 172.122	50181		10.830		na	108.3
3	MPFBA	INT STD	2.20	216.926 > 172.137	58660		10.742		na	107.4
4	PFPeA	2706-90-3	5.02	262.926 > 219.002	4447		0.530		na	105.9
5	M5PFPEA	INT STD	5.01	267.989 > 223.081	86960		11.227		na	112.3
6	PFBS	375-73-5	5.64	298.926 > 79.923	640		0.372	1.86	NO	84.1
7	M3PFBS	INT STD	5.64	301.989 > 80.254	11713		9.505		na	95.1
8	4:2FTS	757124-72-4	6.78	326.926 > 306.957	337		0.410	2.30	NO	87.7
9	M2-4:2FTS	INT STD	6.78	329.117 > 309.079	7415		9.268		na	92.7
10	PFHxA	307-24-4	6.86	312.989 > 269.028	5307		0.559	19.38	NO	111.8
11	M5PFHxA	INT STD	6.85	317.989 > 273.045	103088		11.006		na	110.1
12	PFPeS	2706-91-4	7.16	348.926 > 80.251	464		0.391	1.98	NO	83.2
13	PFHpA	375-85-9	8.09	362.926 > 319.014	6267		0.485	6.13	NO	96.9
14	M4PFHpA	INT STD	8.09	366.926 > 321.979	143375		11.491		na	114.9
15	br-PFHxS	355-46-4	8.02	398.926 > 80.295	45	m5	0.054		YES	63.1
16	L-PFHxS	355-46-4	8.25	398.926 > 80.295	239		0.268	1.05	NO	72.5
17	PFHxS	355-46-4		398.926 > 80.295	283		0.322		na	
18	M3PFHxS	INT STD	8.25	401.926 > 80.317	7098		9.979		na	99.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.02	412.989 > 368.9	6281		0.503	10.42	NO	100.6
21	PFOA	335-67-1		412.989 > 368.9	6281		0.503		na	
22	M8PFOA	INT STD	9.01	420.989 > 375.979	135946		11.354		na	113.5
23	M2PFOA	INT STD	9.01	415.032 > 369.968	122363		11.575		na	115.8
24	6:2FTS	27619-97-2	8.97	426.989 > 406.921	302		0.532		YES	112.0
25	M2-6:2FTS	INT STD	8.97	428.989 > 408.917	7016		8.973		na	89.7
26	PFHpS	375-92-8	9.09	448.926 > 80.257	276		0.457	1.07	YES	96.2
27	PFNA	375-95-1	9.77	462.989 > 418.931	5346		0.464	4.53	NO	92.9
28	M9PFNA	INT STD	9.77	472.053 > 426.947	140540		11.930		na	119.3
29	br-PFOS	1763-23-1	9.64	498.989 > 80.294	78	m5	0.066	2.05	NO	65.7
30	L-PFOS	1763-23-1	9.83	498.989 > 80.294	275		0.306	1.77	YES	83.8
31	PFOS	1763-23-1		498.989 > 80.294	353		0.371		na	
32	M4PFOS	INT STD	9.82	503.032 > 80.306	8804		12.606		na	126.1
33	M8PFOS	INT STD	9.81	507.053 > 80.294	9161		10.141		na	101.4
34	PFDA	335-76-2	10.41	513.053 > 468.906	5285		0.463	8.61	NO	92.5
35	M2PFDA	INT STD	10.40	515.053 > 469.934	116641		13.211		na	132.1
36	M6PFDA	INT STD	10.40	519.053 > 473.931	133196		11.049		na	110.5
37	8:2FTS	39108-34-4	10.39	526.926 > 506.818	294		0.504		na	105.1
38	M2-8:2FTS	INT STD	10.39	529.053 > 508.945	5365		11.696		na	117.0
39	PFNS	68259-12-1	10.44	548.989 > 80.249	324		0.380	1.64	YES	79.2

all concentration units in (ng/mL)

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ID: WG1348954-1,537ILOW
Name: I20398
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Description: WG1348954,WG1347622,ICAL16305,537ILOW
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.79	573.096 > 418.987	12899		9.396		na	94.0
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.79	570.053 > 418.917	594		0.494	3.87	YES	98.9
43	NMeFOSAA	2355-31-9		570.053 > 418.917	594		0.494		na	
44	PFUnA	2058-94-8	10.95	562.989 > 518.903	5724		0.459	10.04	NO	91.7
45	M7-PFUDA	INT STD	10.95	570.053 > 524.923	130518		12.204		na	122.0
46	PFDS	335-77-3	10.96	598.926 > 80.314	236		0.388	1.44	NO	80.4
47	FOSA	754-91-6	10.85	497.989 > 78.245	1037		0.409		YES	81.7
48	M8FOSA	INT STD	10.85	506.053 > 78.286	23884		8.380		na	83.8
49	d5-NEtFOSAA	INT STD	11.08	589.117 > 418.929	12072		9.954		na	99.5
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.09	583.989 > 418.927	388	m2	0.340		YES	68.0
52	NEtFOSAA	2991-50-6		583.989 > 418.927	388		0.340		na	
53	PFDoA	307-55-1	11.42	612.989 > 568.967	5049		0.467	22.02	NO	93.4
54	MPFDOA	INT STD	11.42	614.989 > 569.92	127690		10.643		na	106.4
55	PFTrDA	72629-94-8	11.83	663.053 > 618.969	4660		0.536	17.42	YES	107.1
56	PFTA	376-06-7	12.19	713.053 > 668.976	3941		0.481	8.45	NO	96.2
57	M2PFTEDA	INT STD	12.19	715.053 > 669.945	102334		10.738		na	107.4

all concentration units in (ng/mL)

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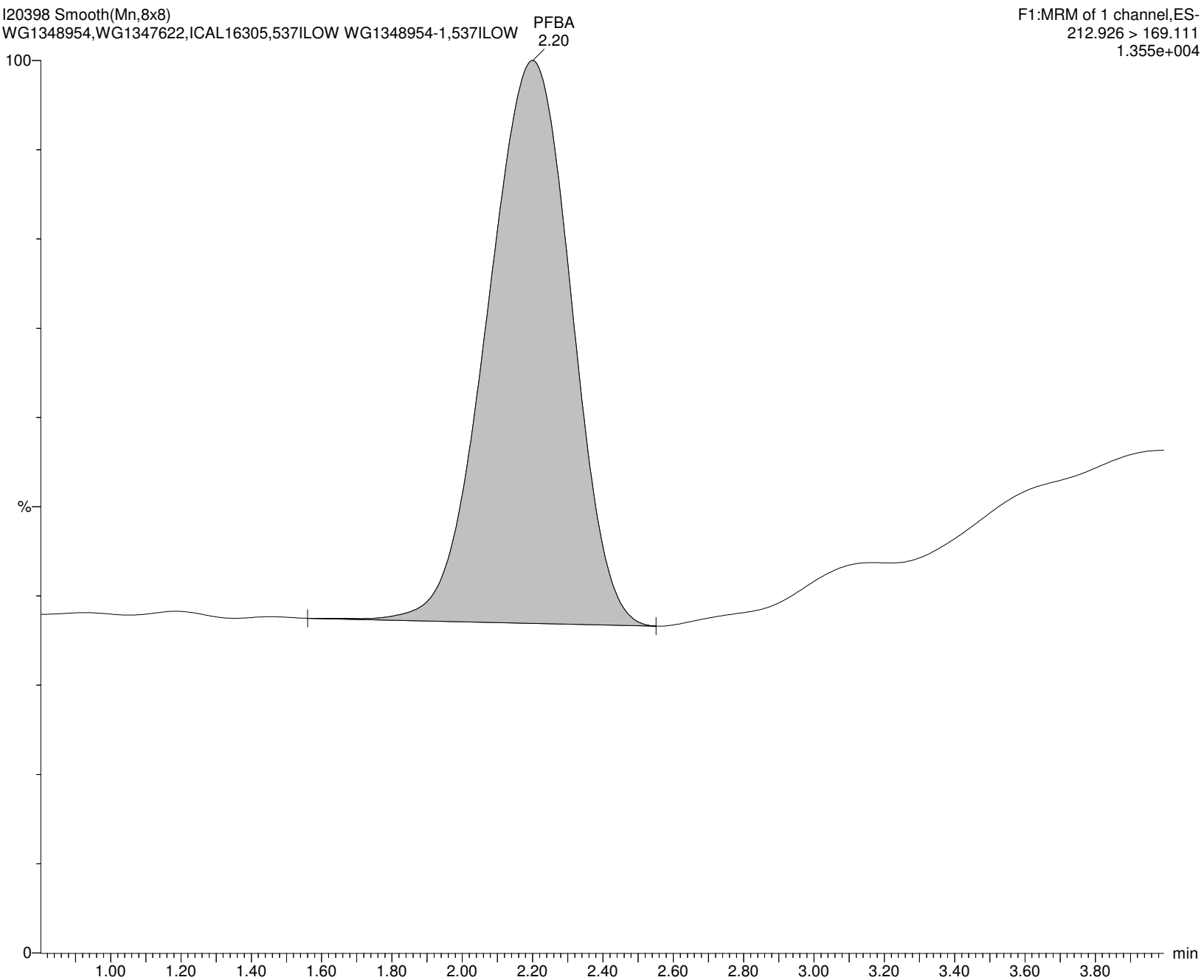

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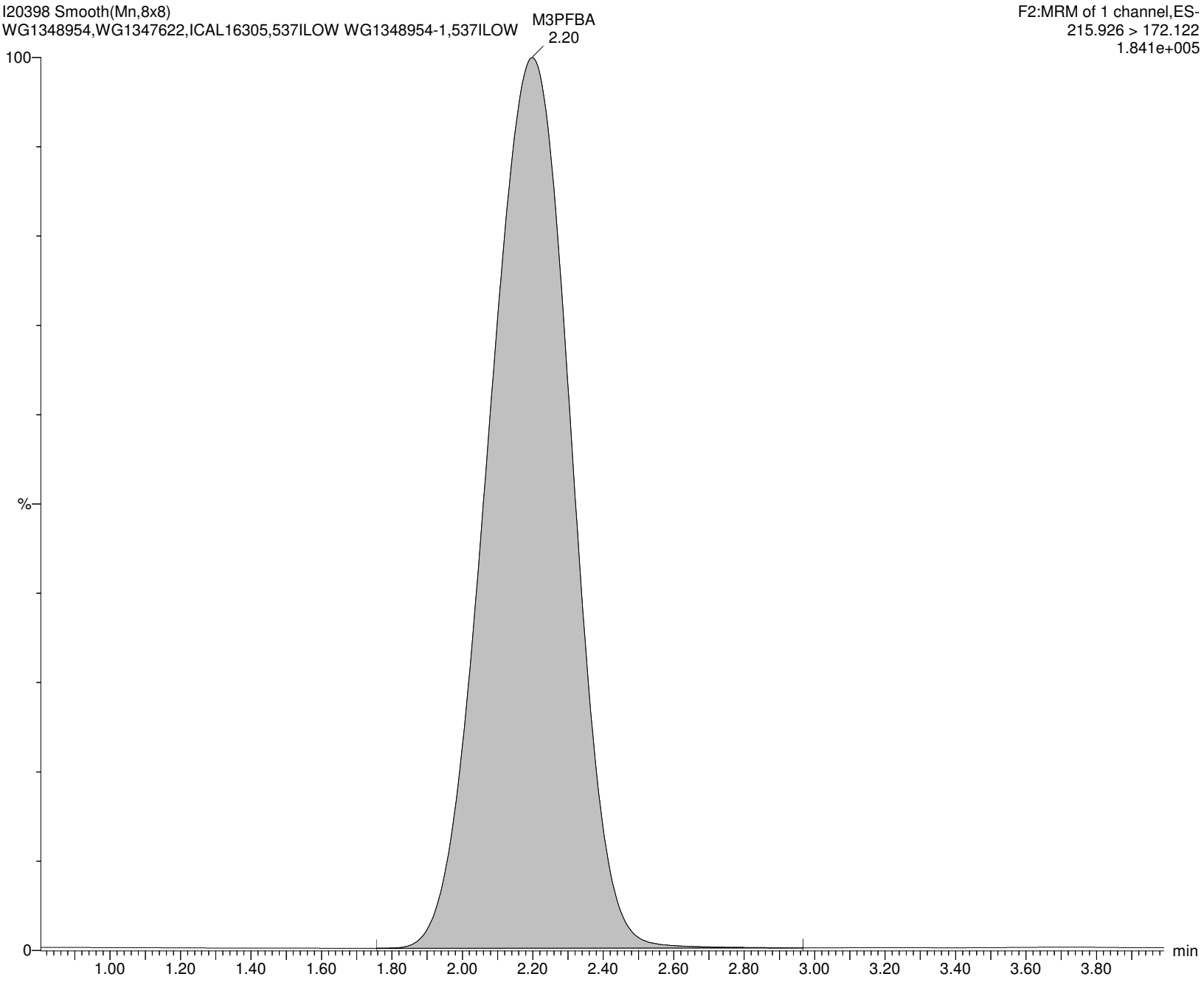

all concentration units in (ng/mL)

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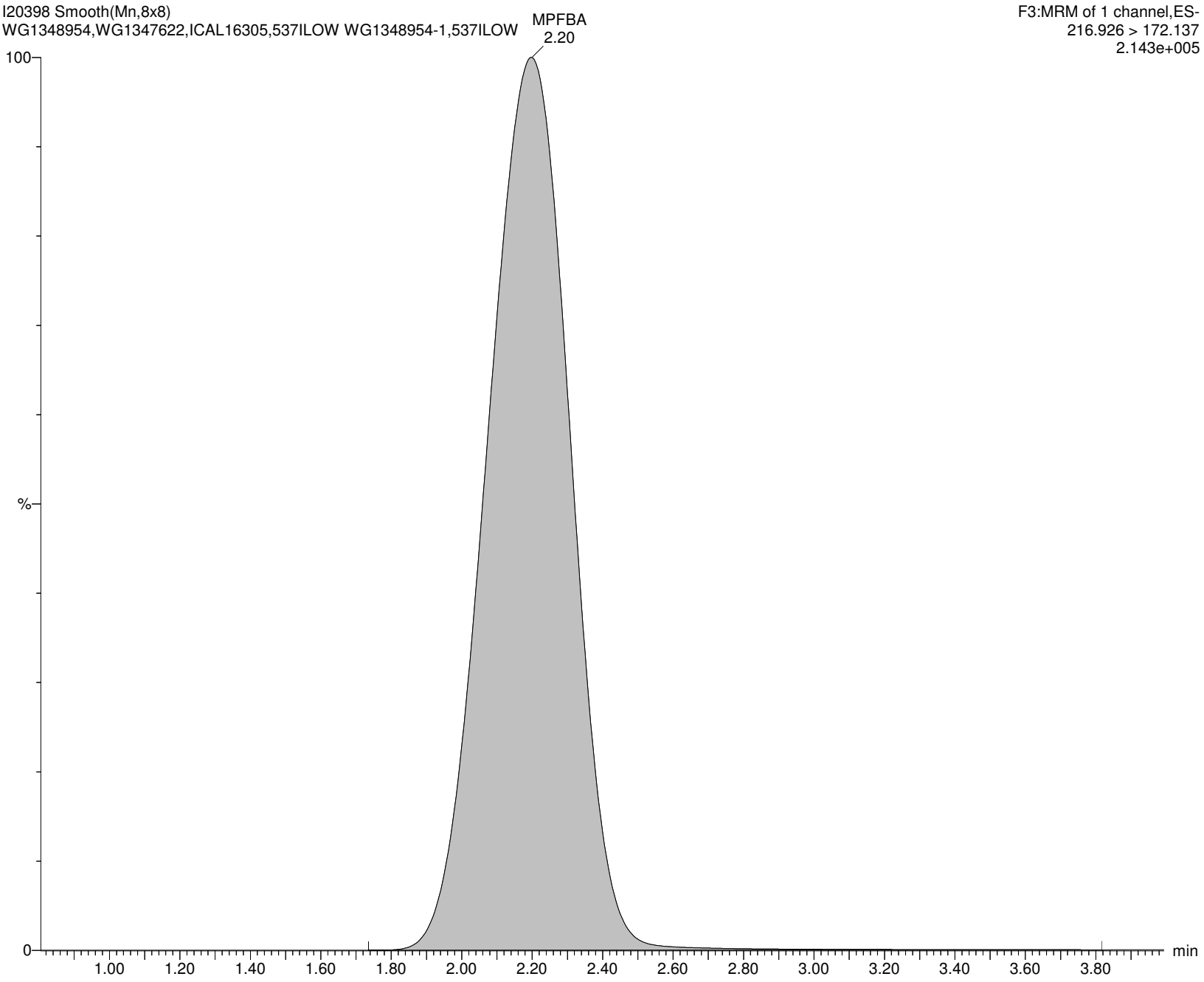

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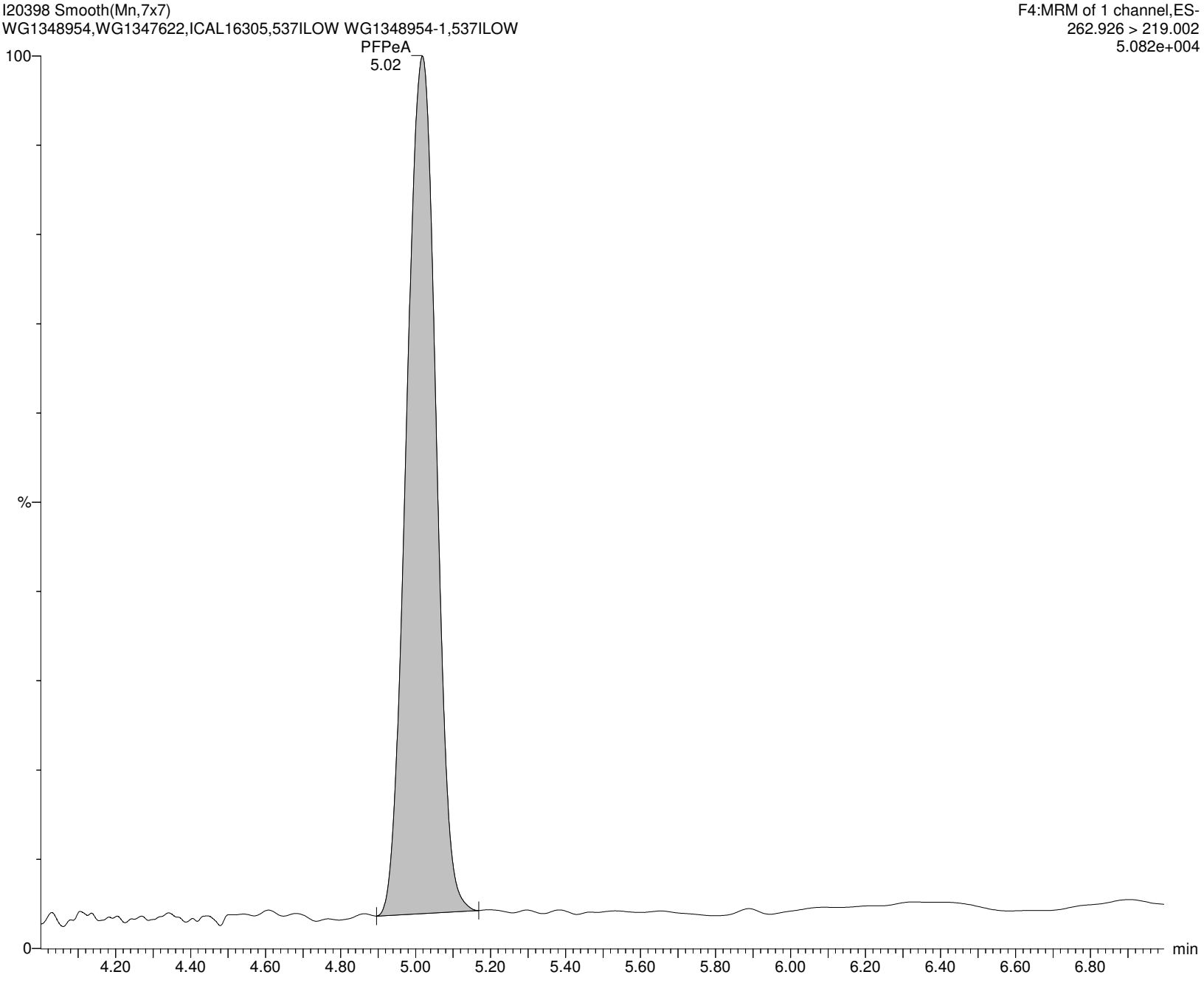

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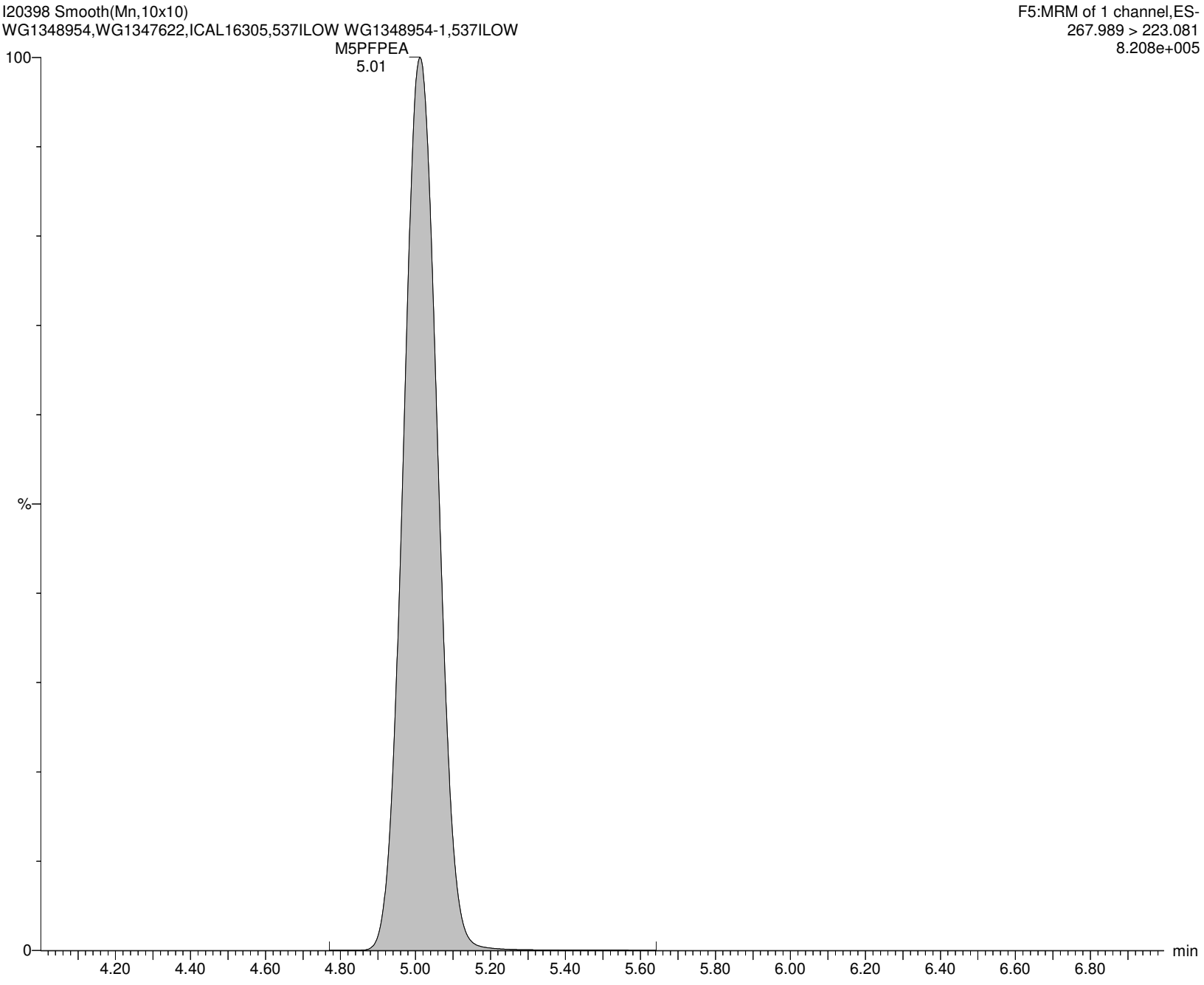

all concentration units in (ng/mL)

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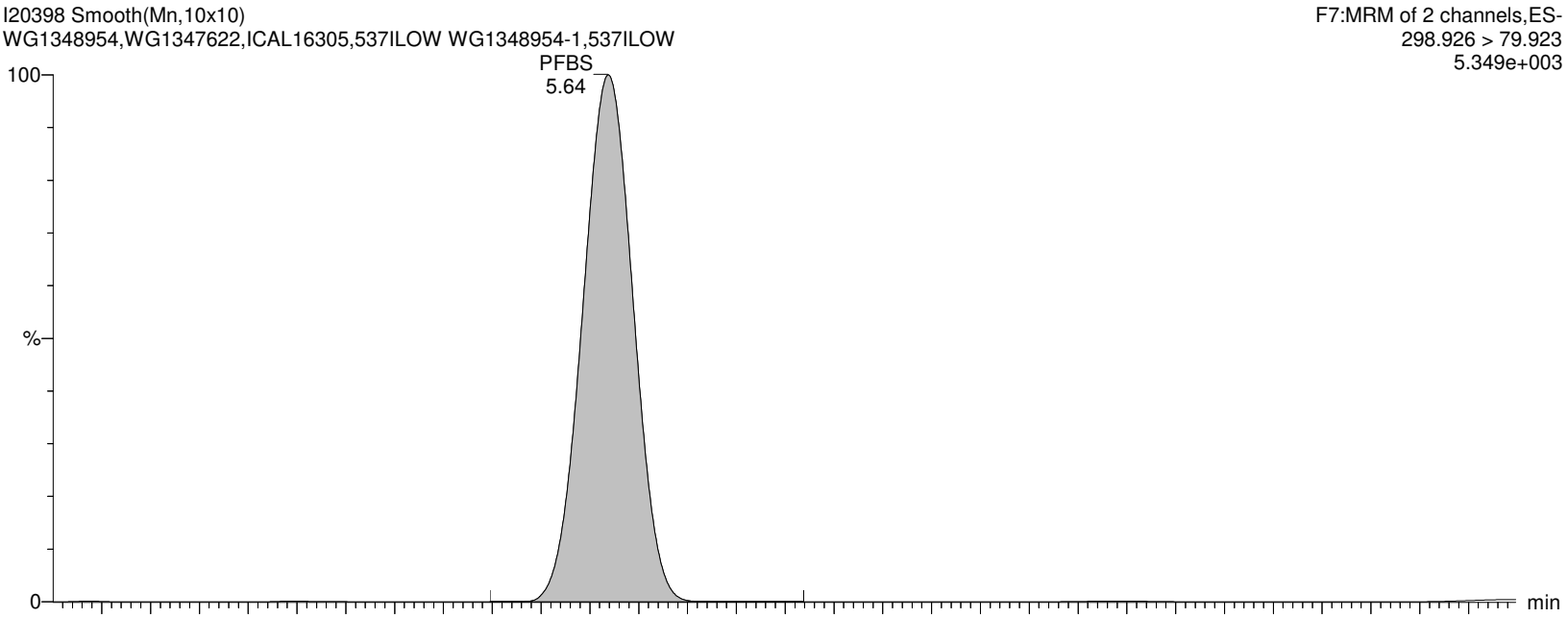

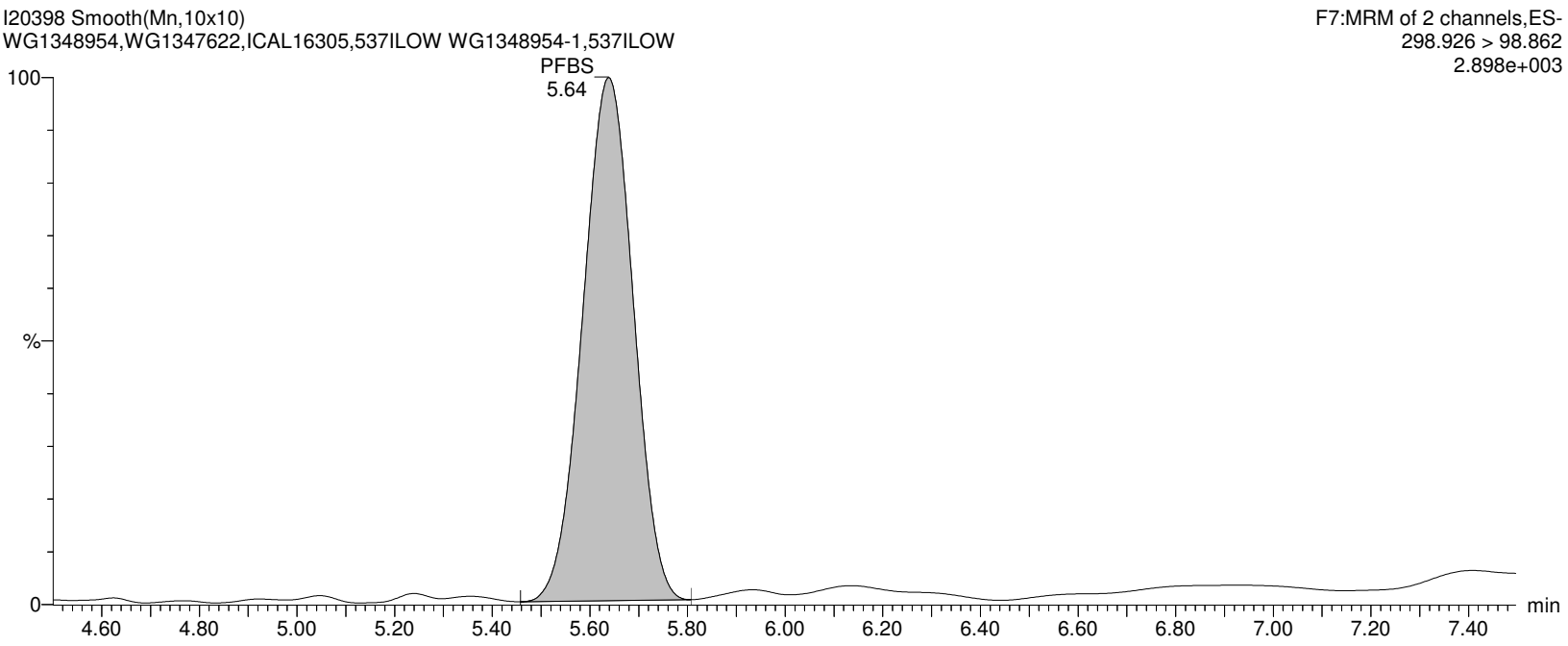

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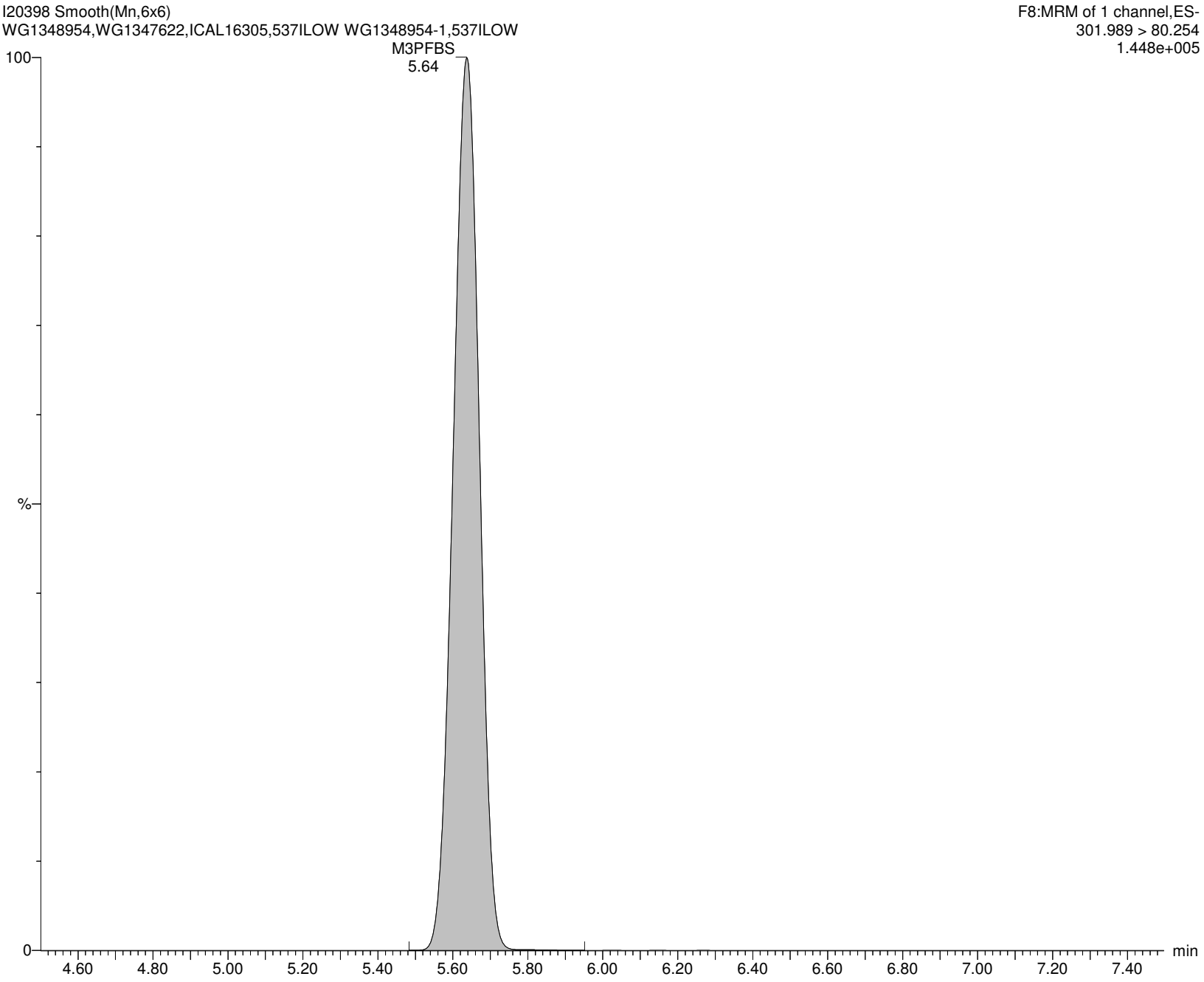

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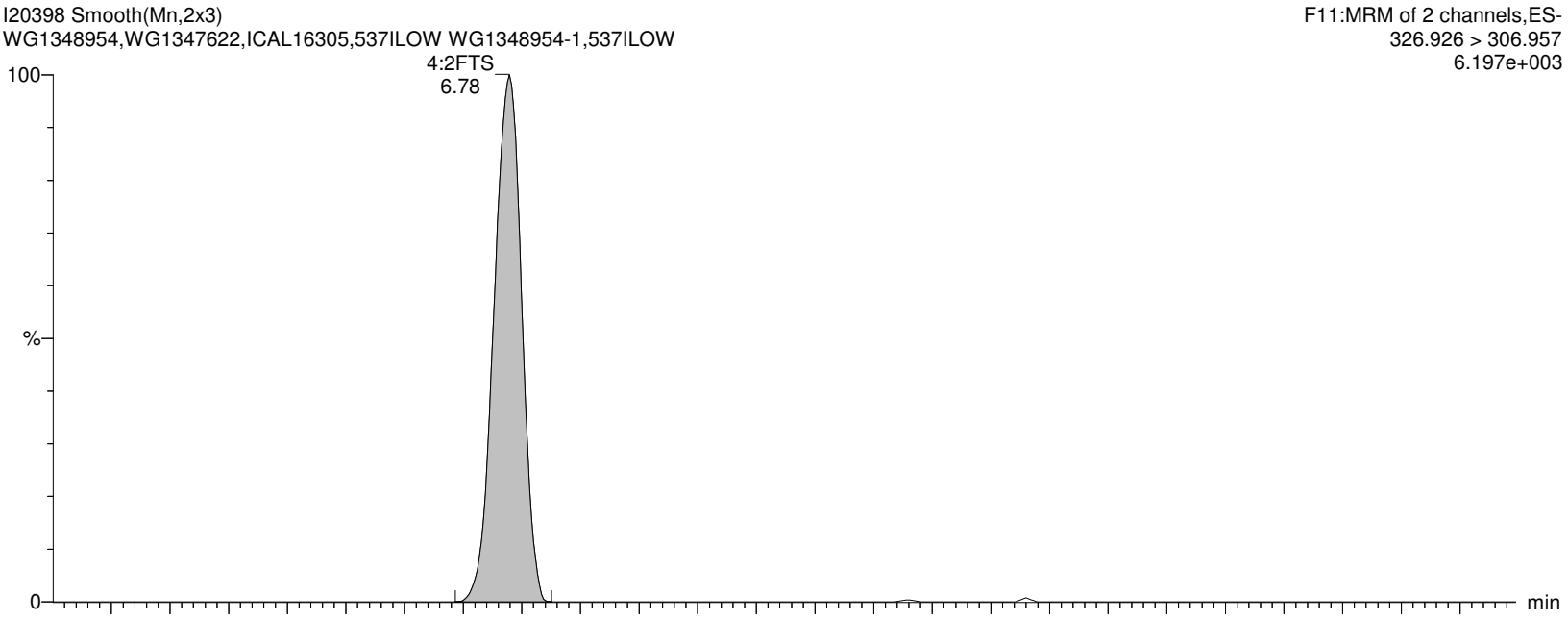

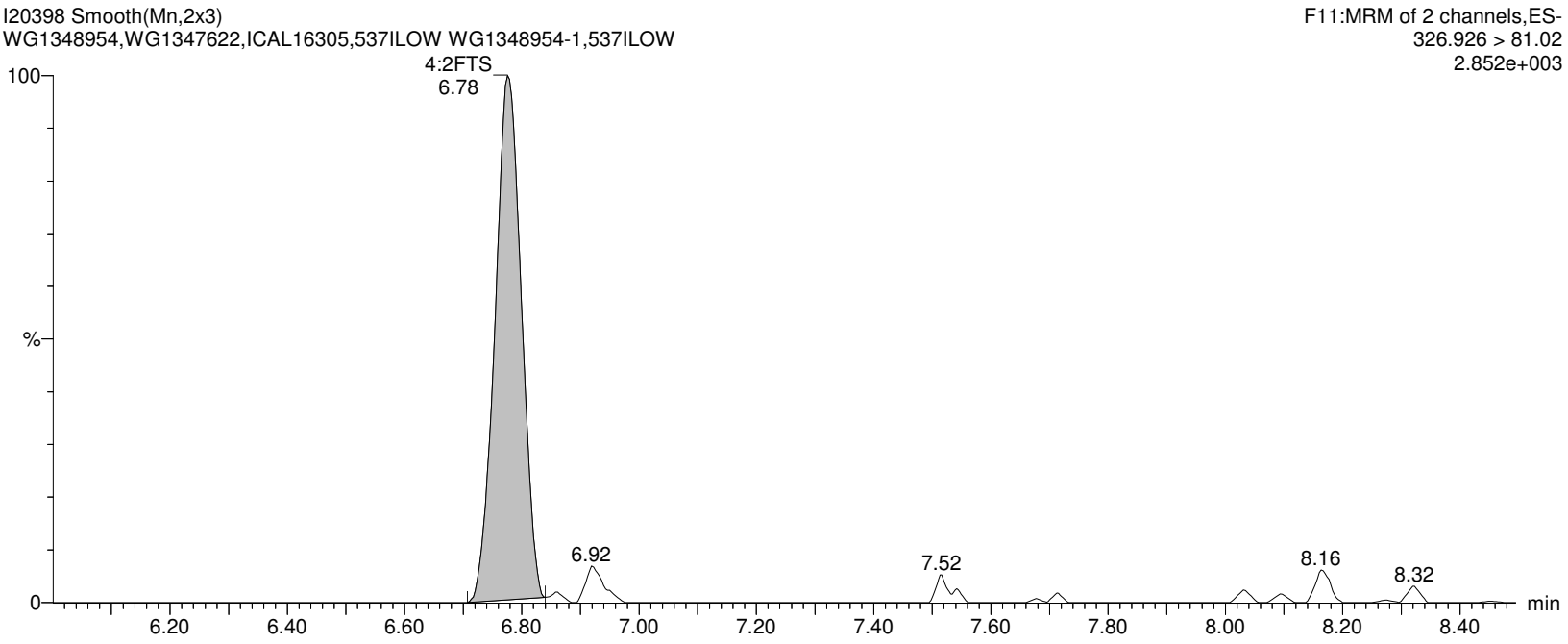

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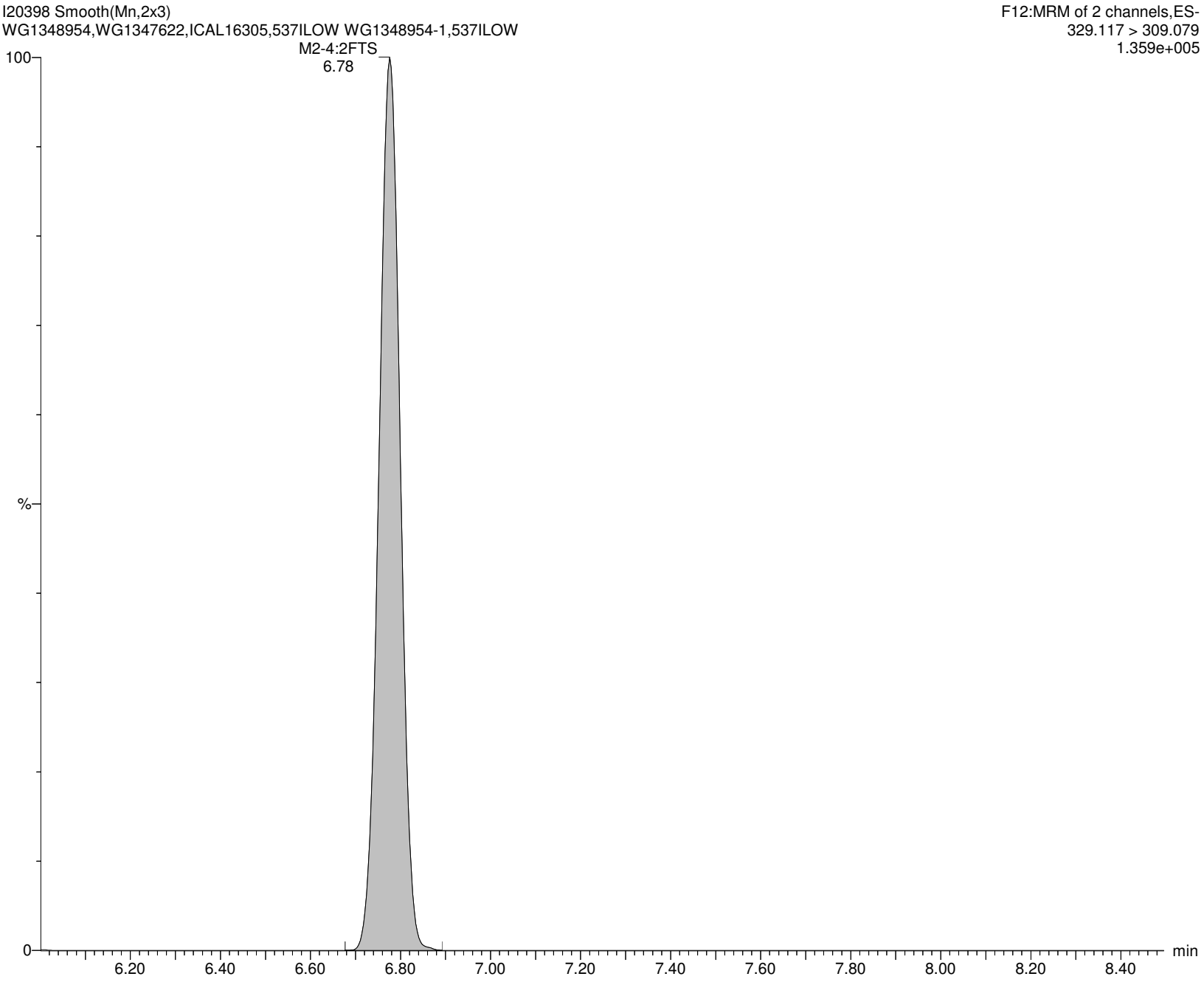

all concentration units in (ng/mL)

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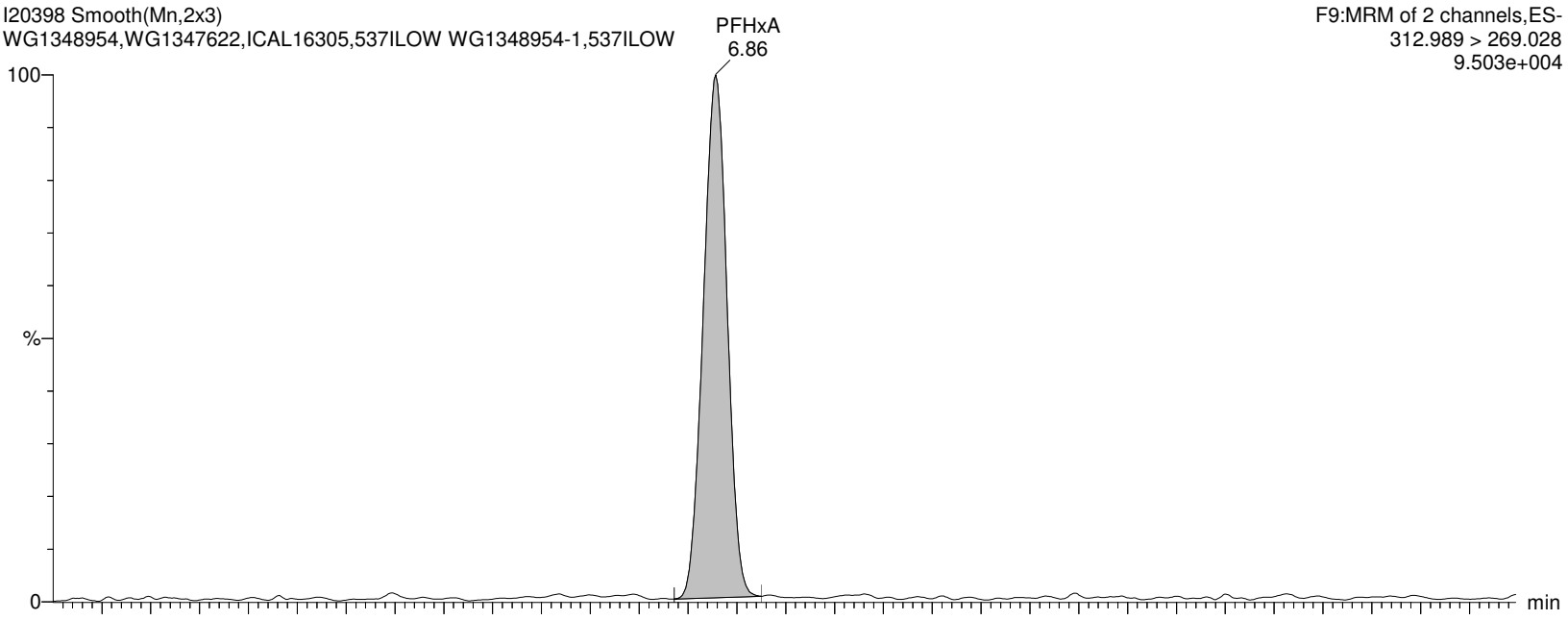

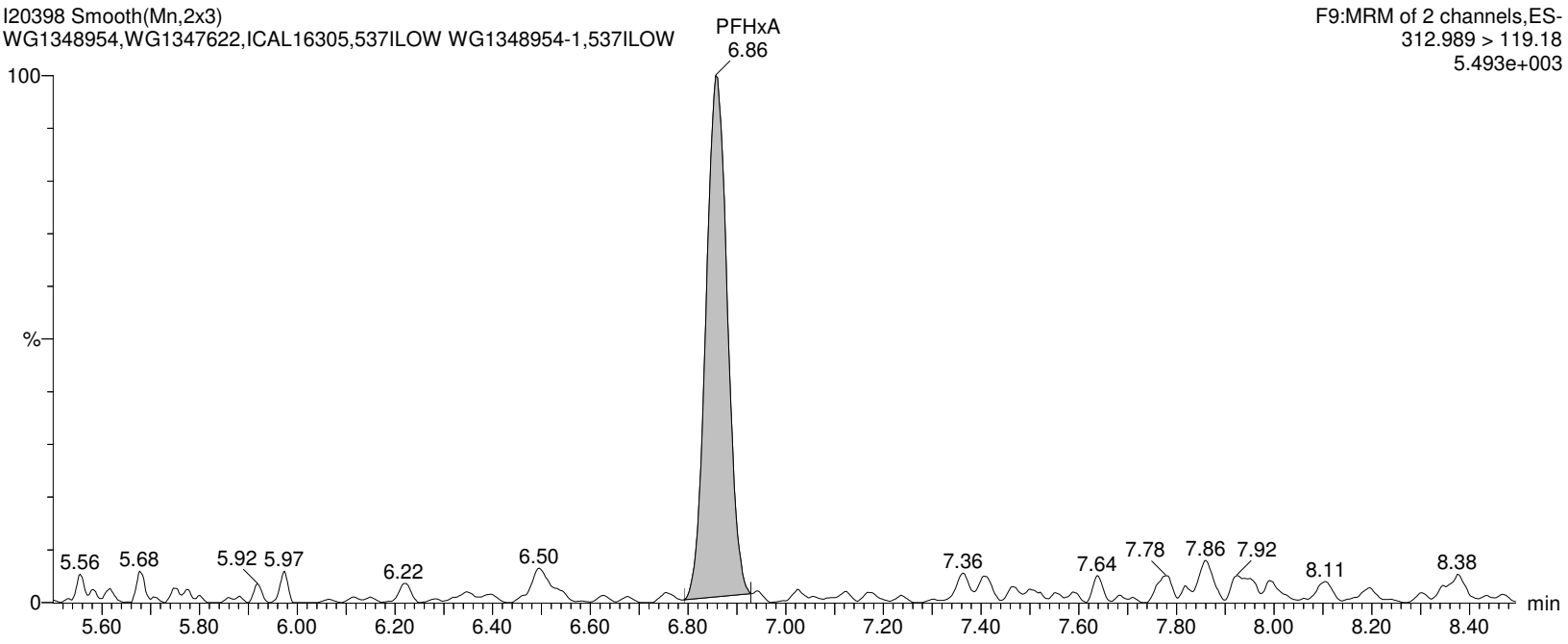

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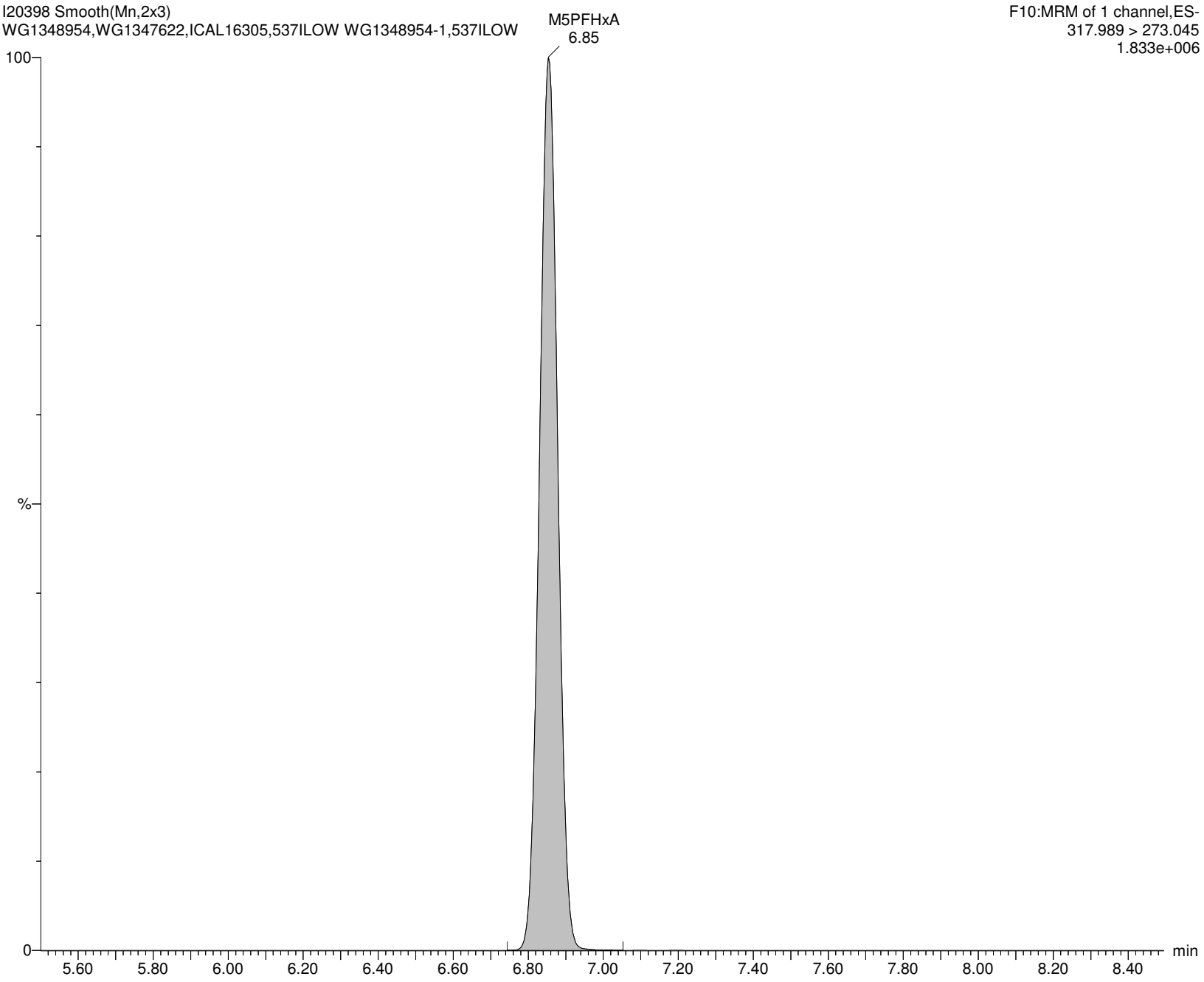

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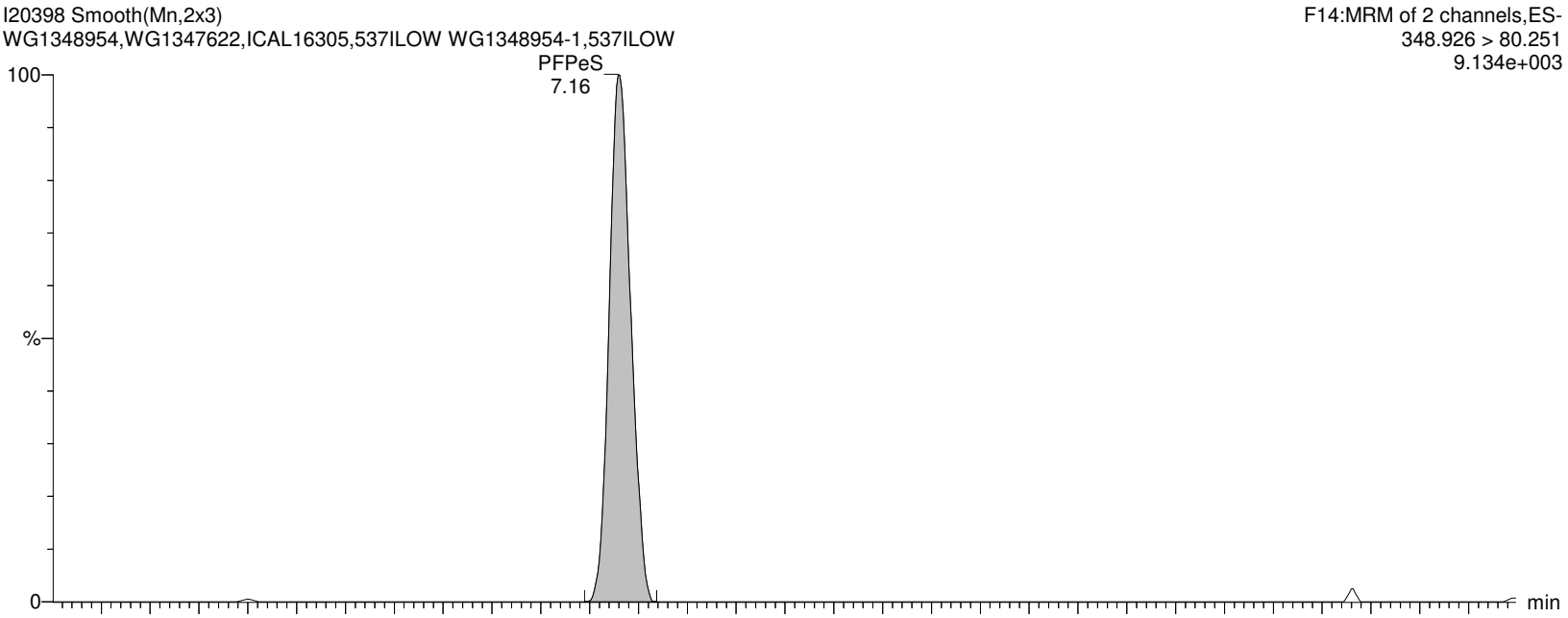

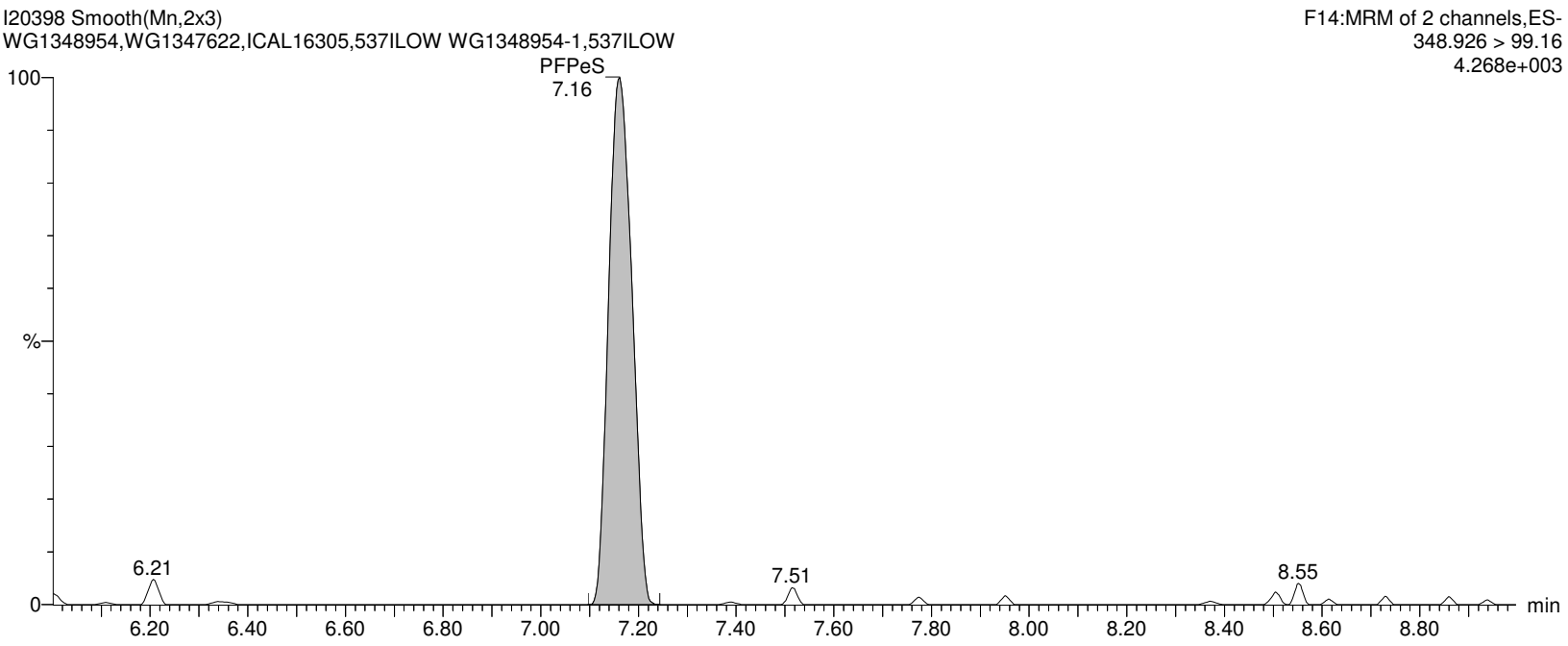

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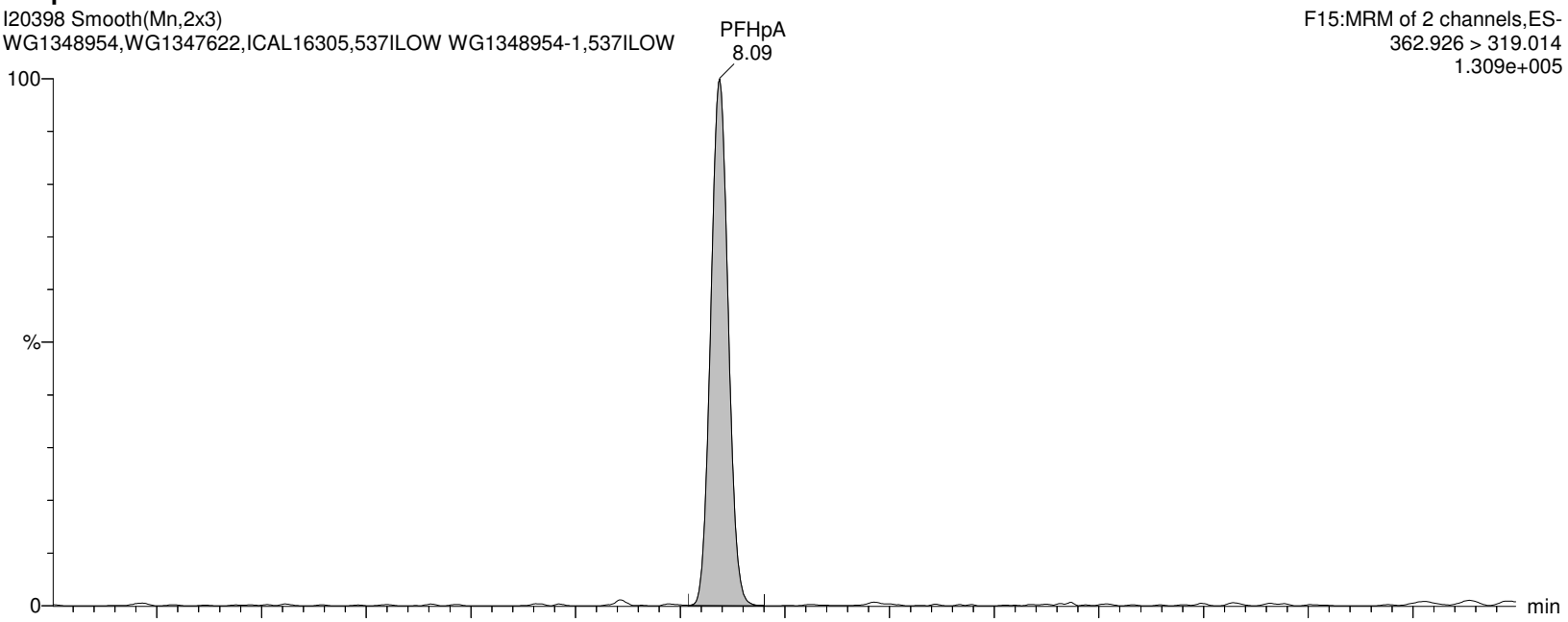

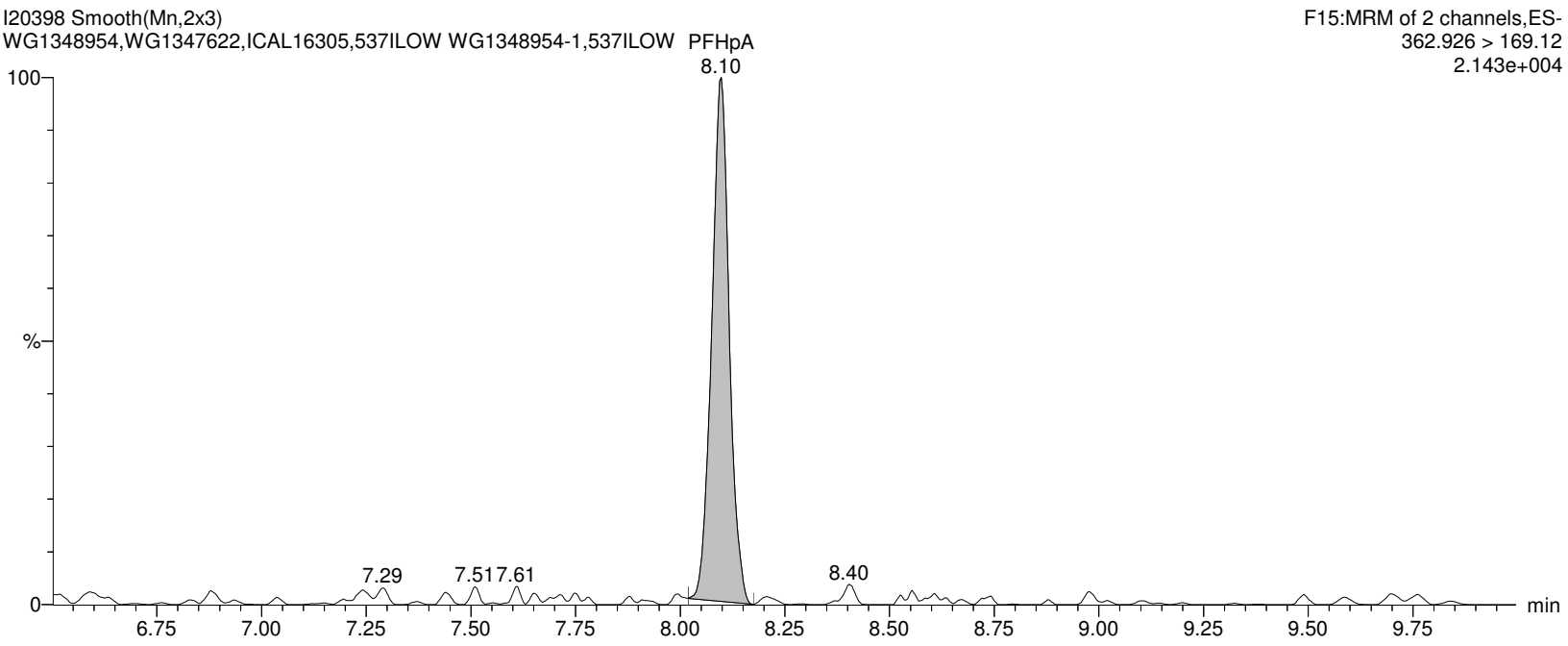

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
Printed: Thursday, March 12, 2020 02:48:34 Eastern Daylight Time

Name: I20398
ID: WG1348954-1,537ILOW
Date: 10-Mar-2020
Time: 10:15:45
Description: WG1348954,WG1347622,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
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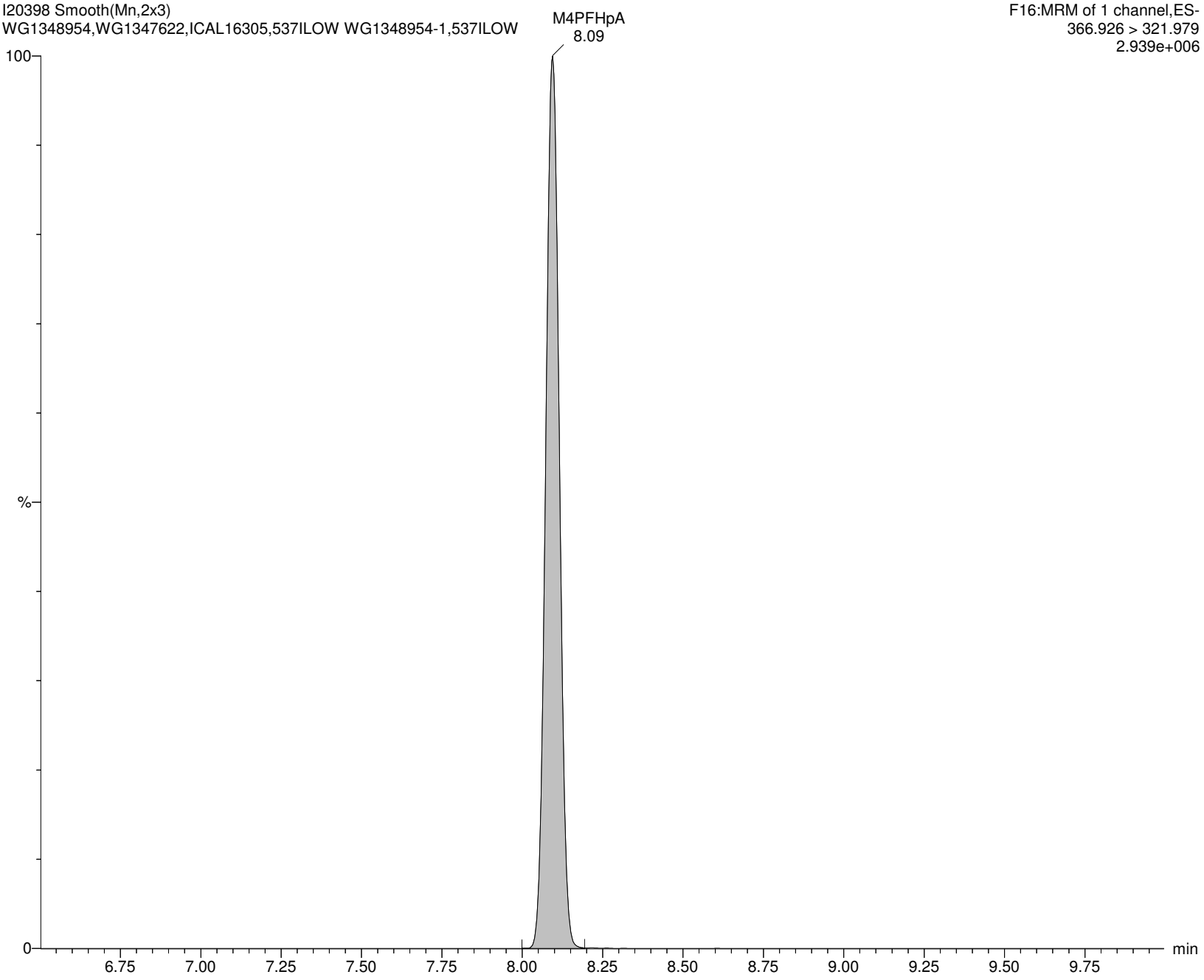

all concentration units in (ng/mL)

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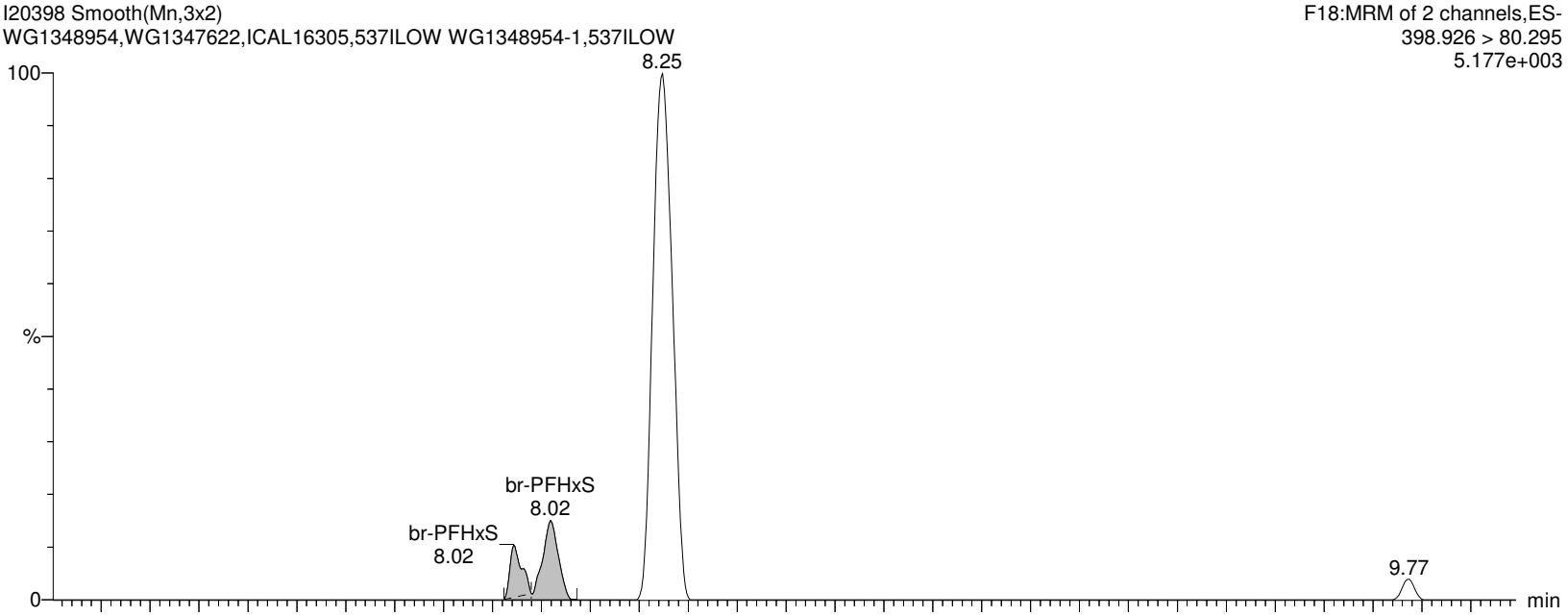

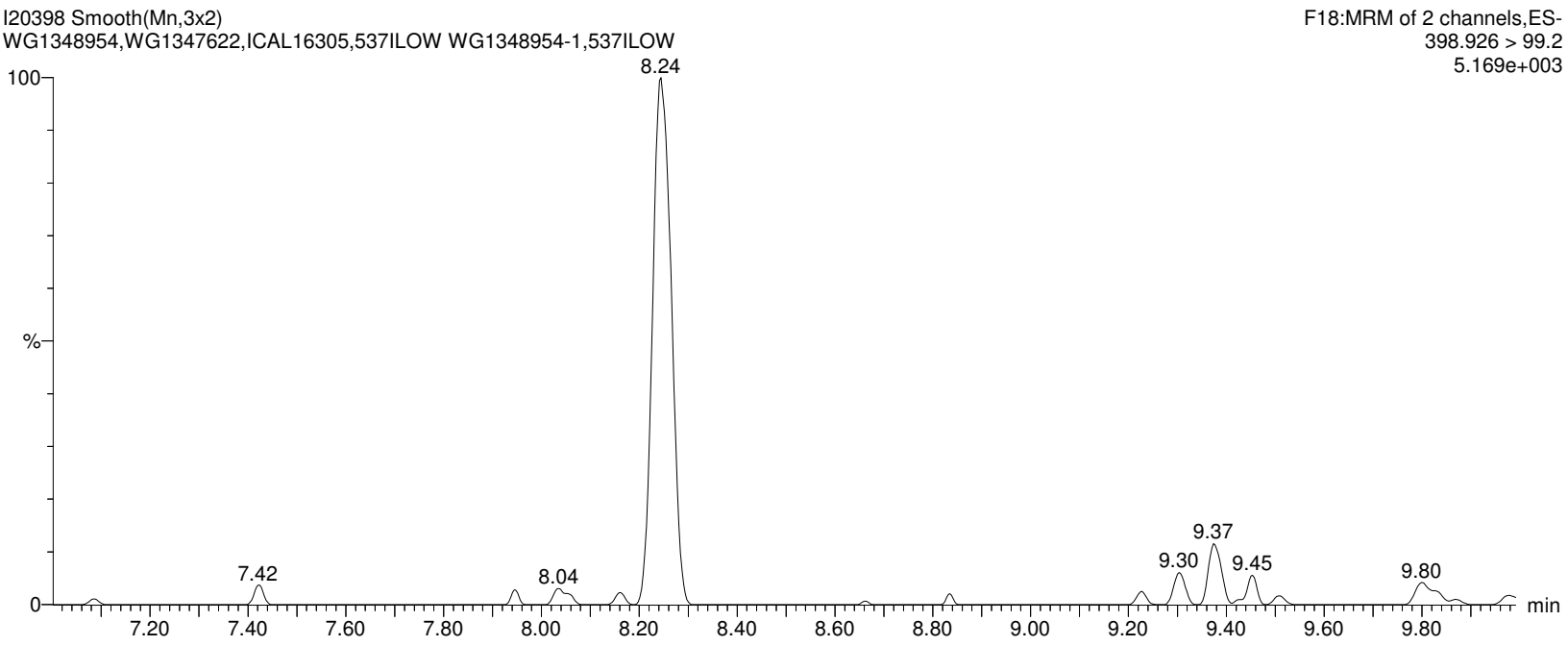

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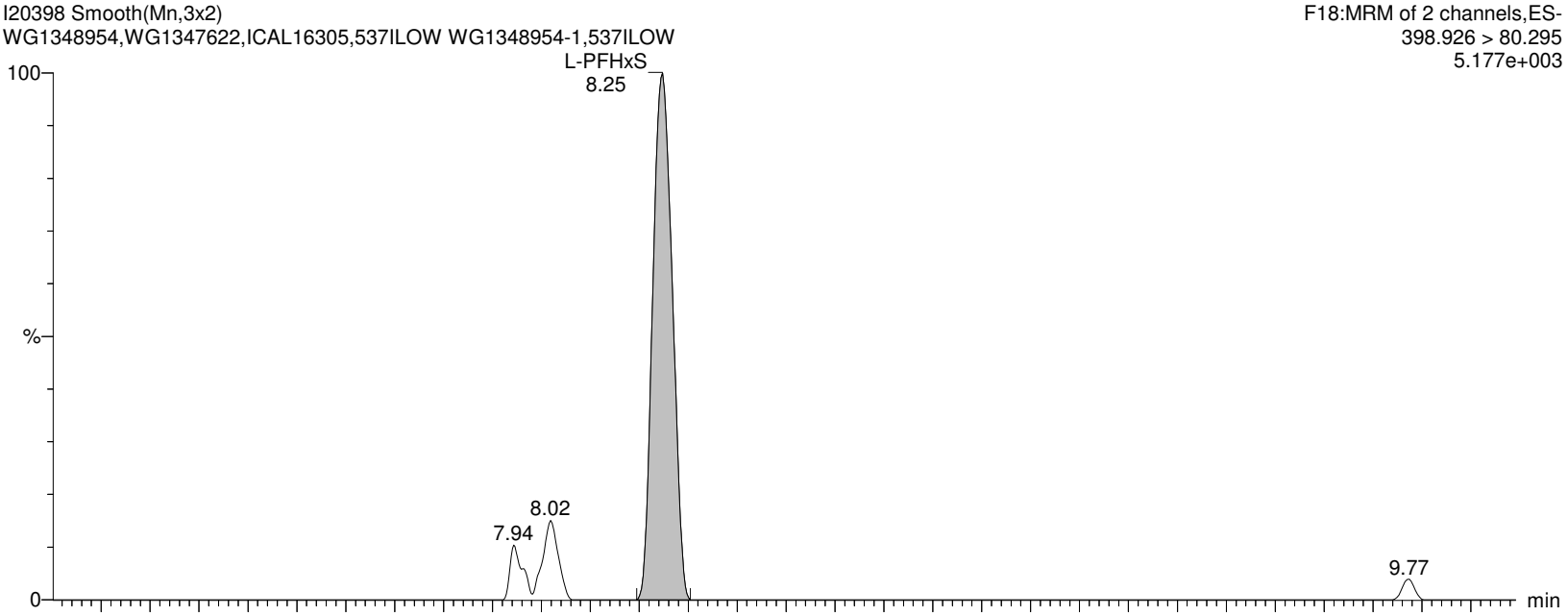

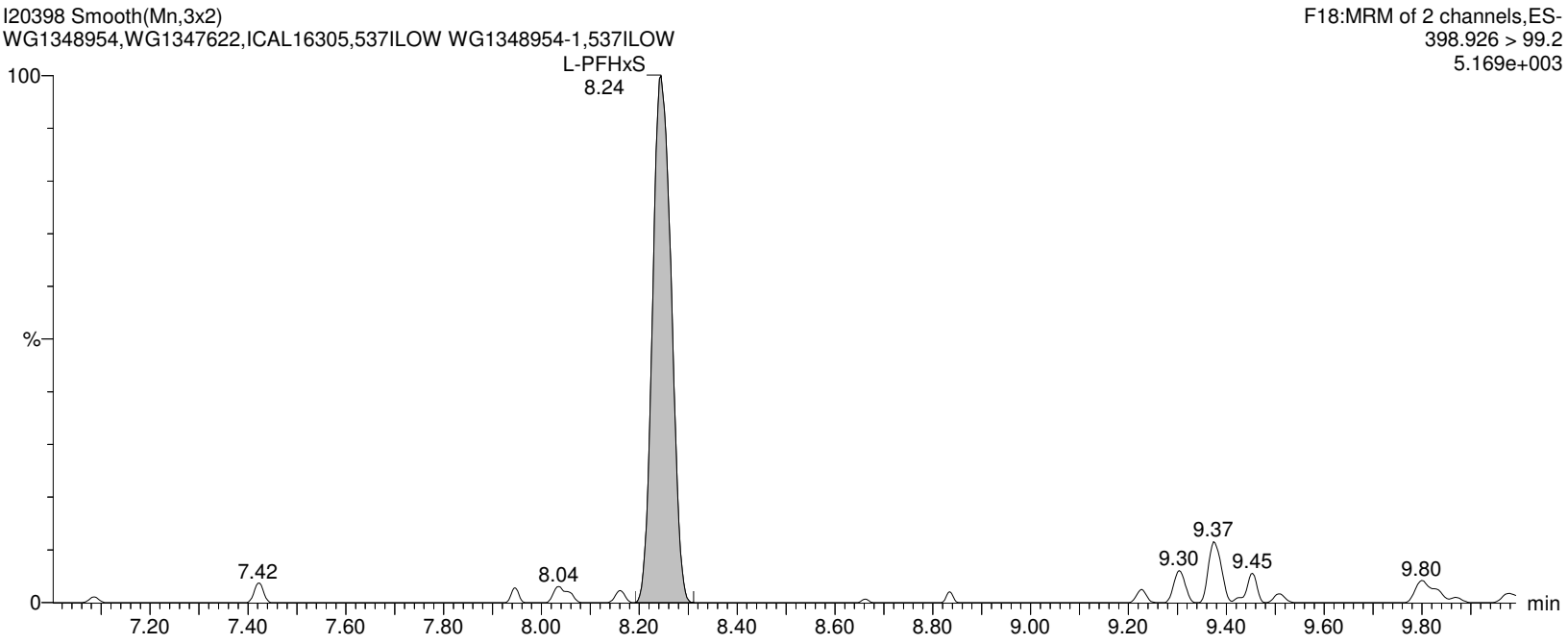

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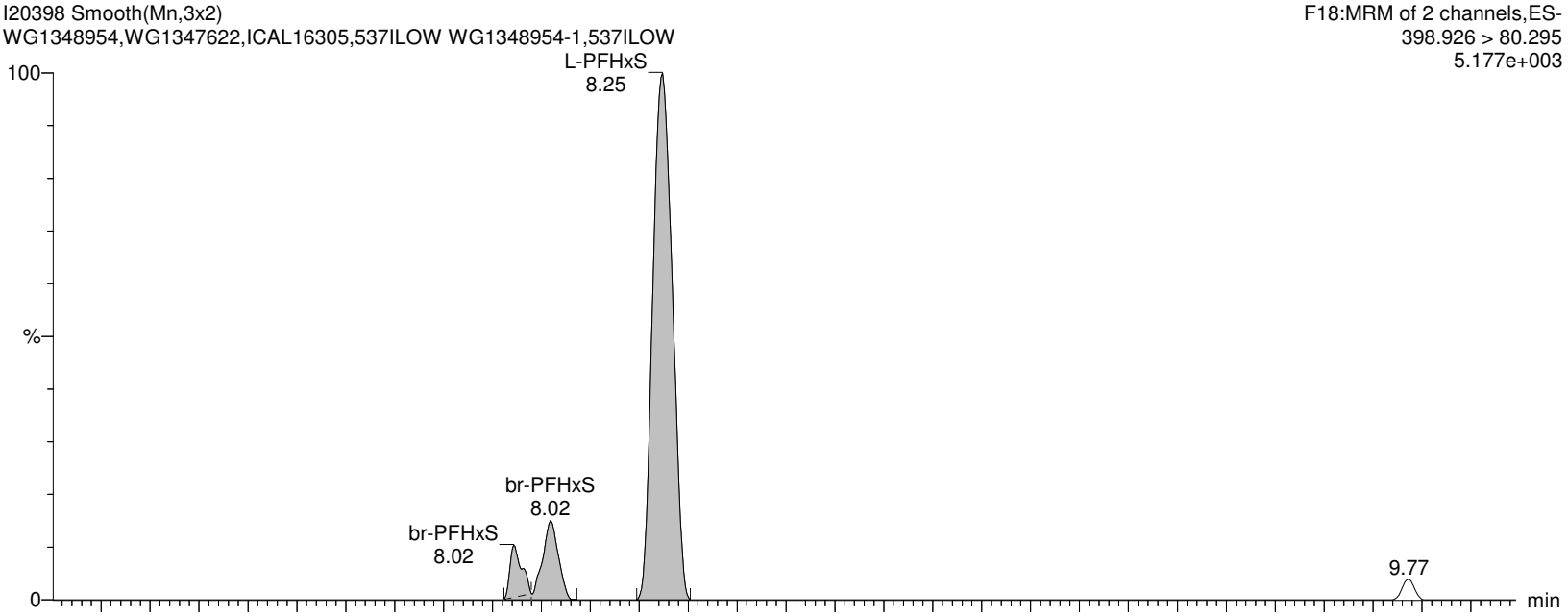

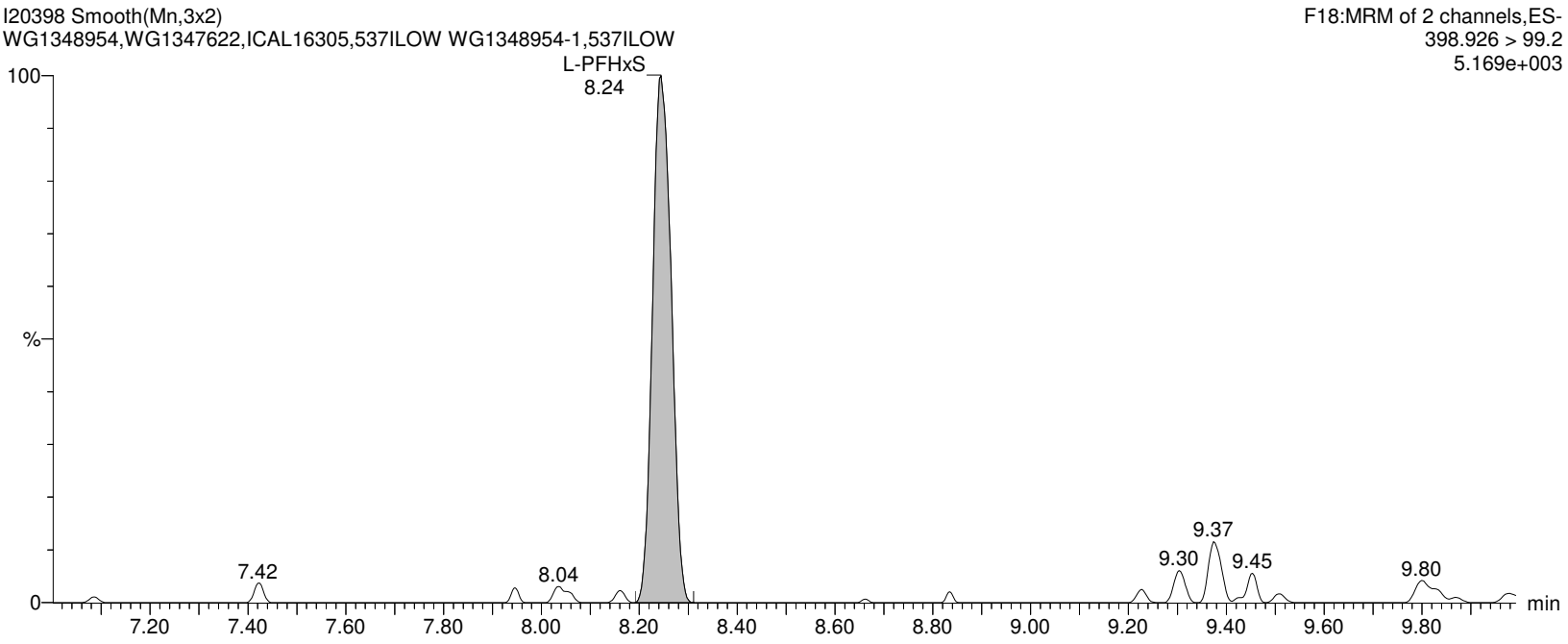

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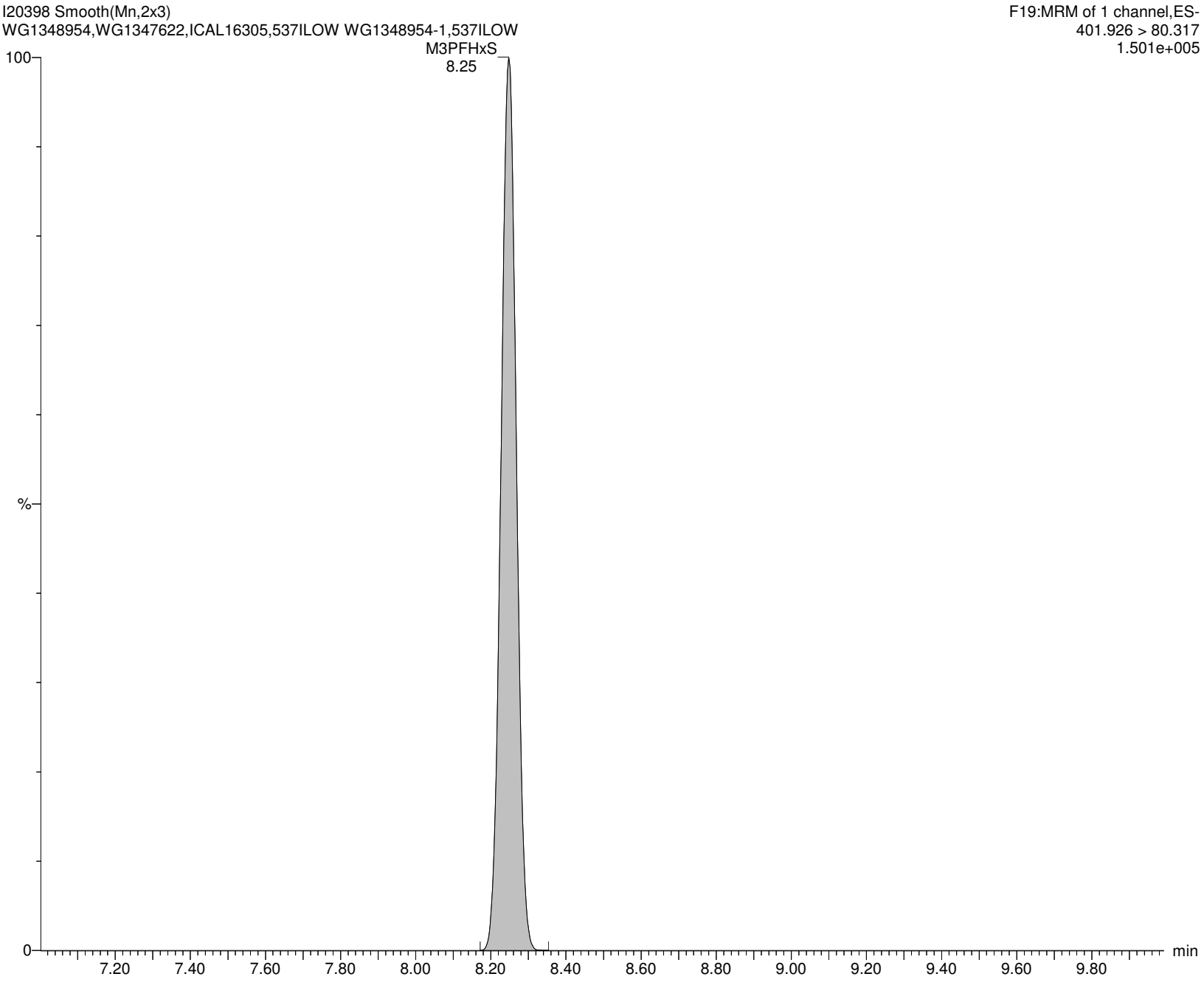

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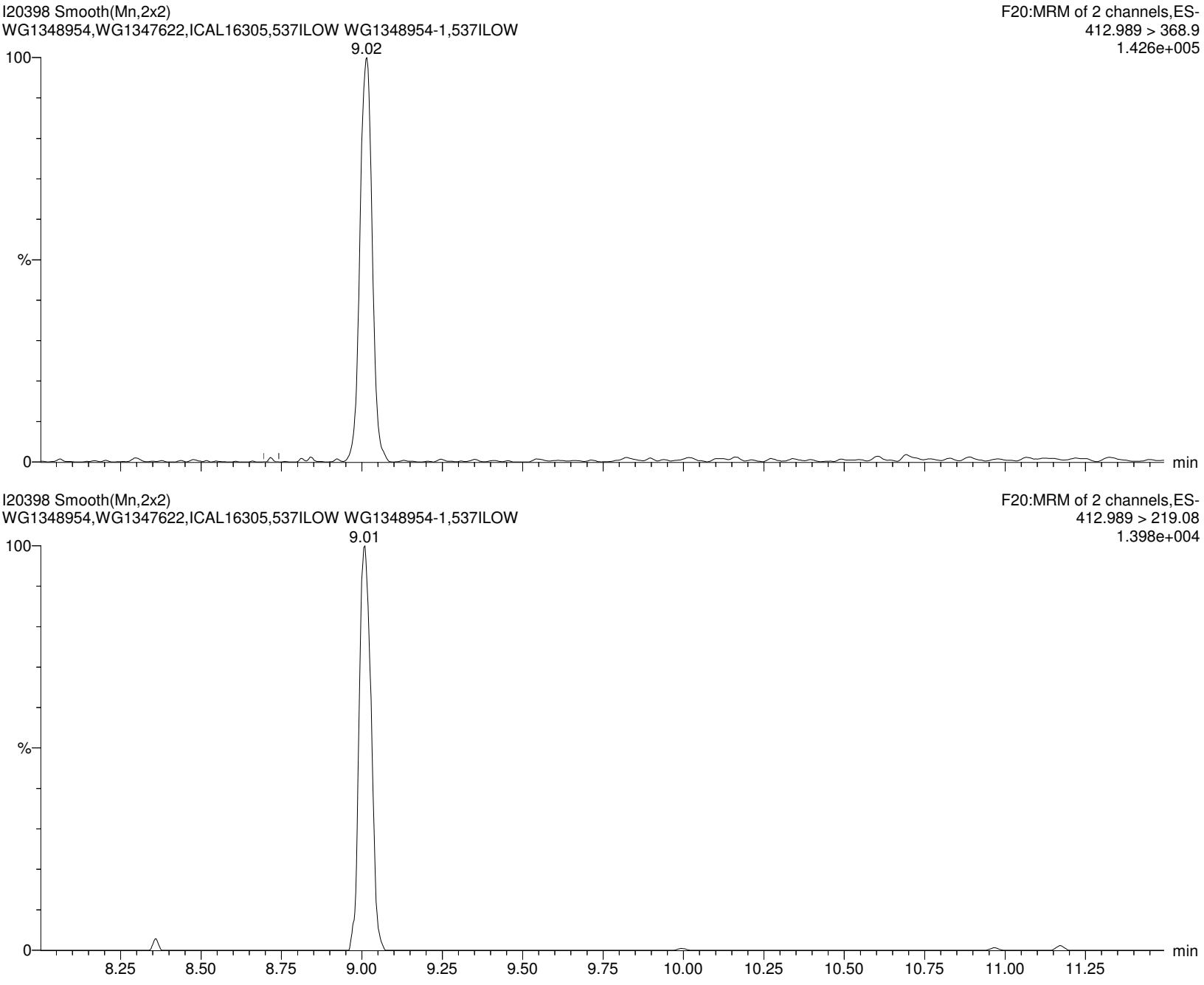

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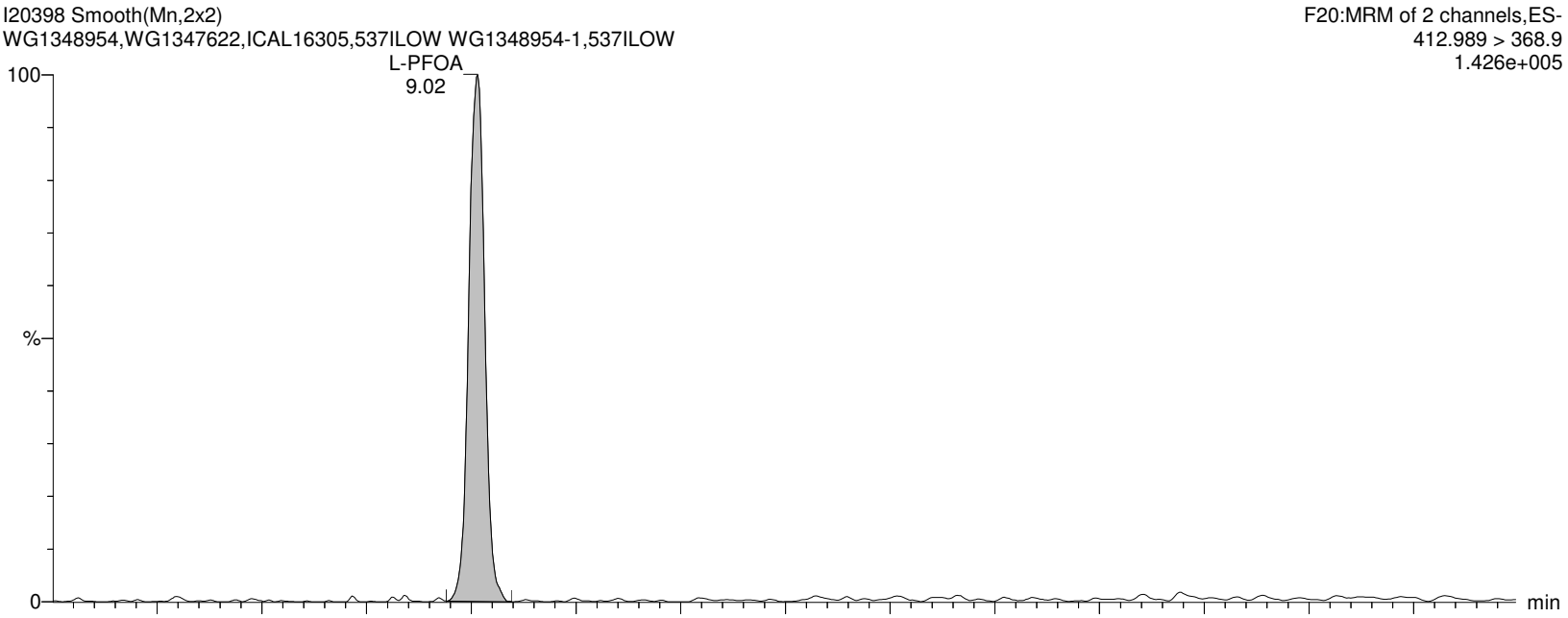

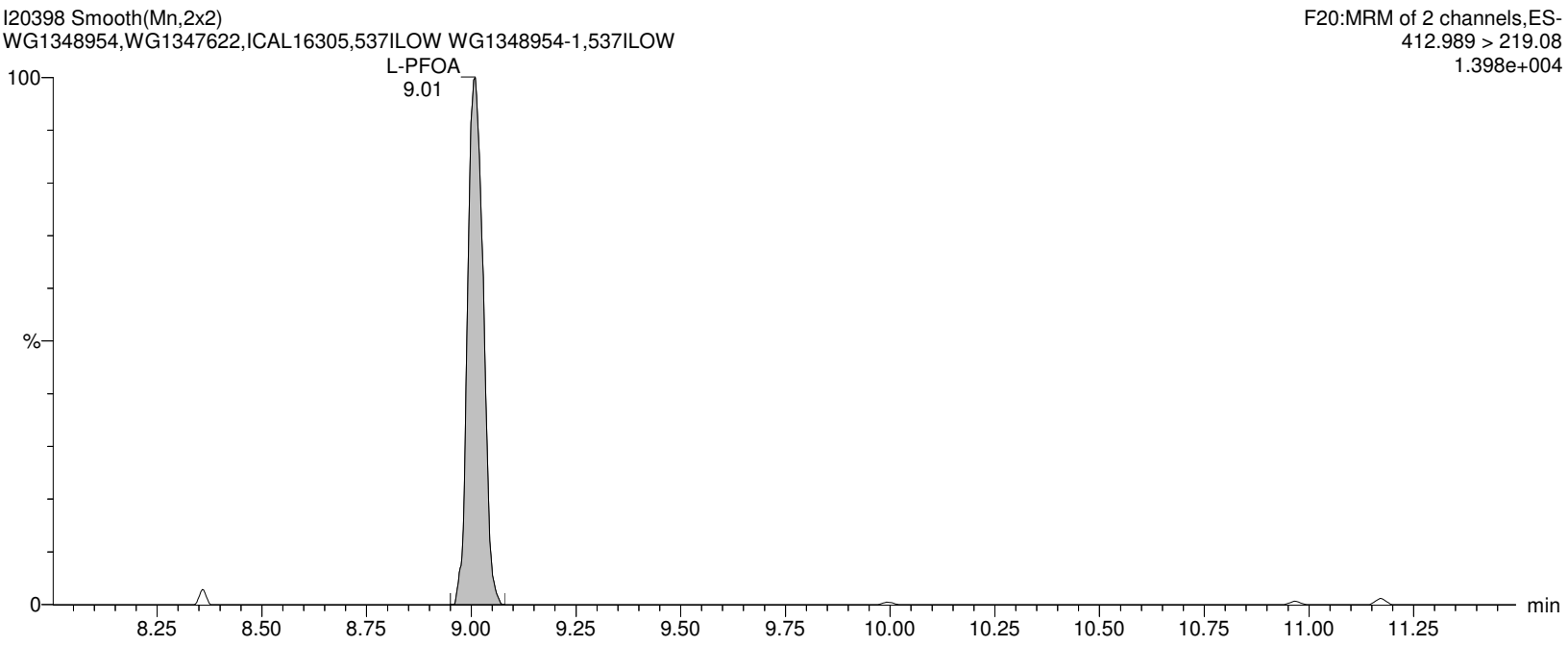

all concentration units in (ng/mL)

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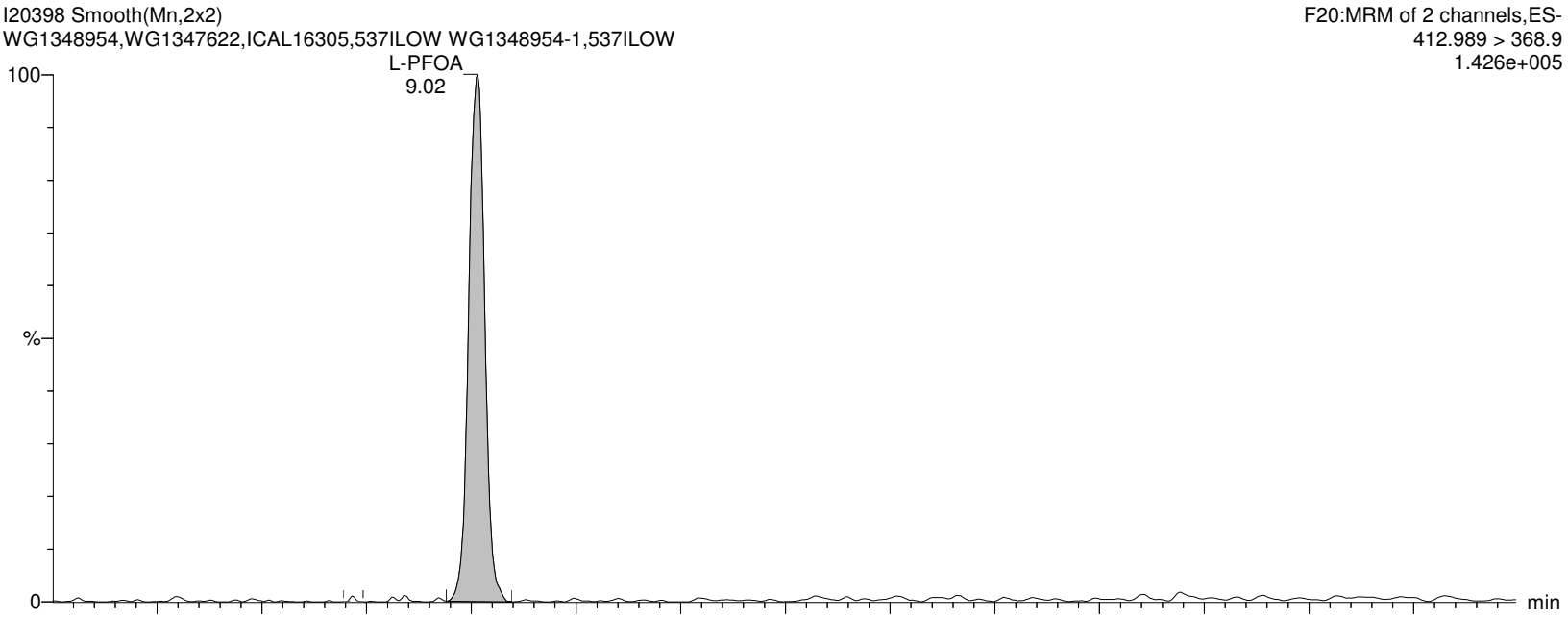

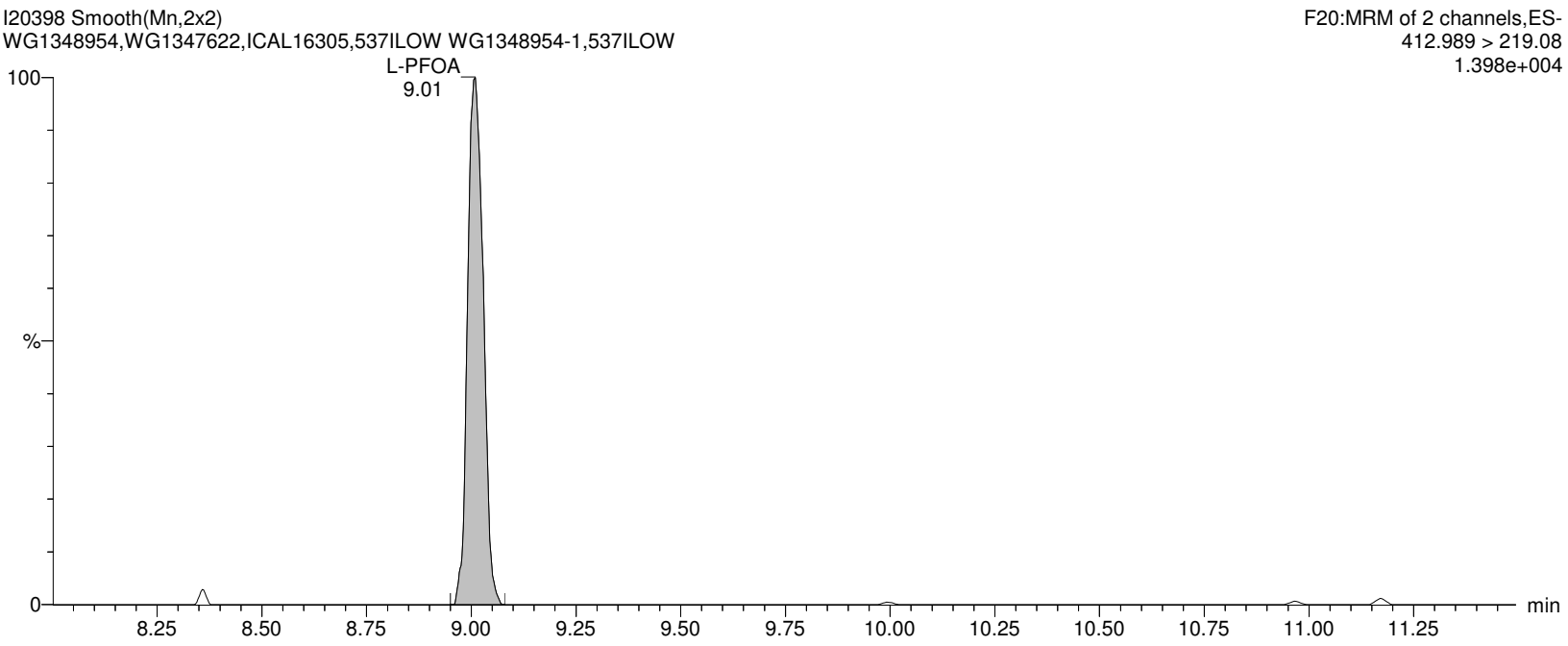

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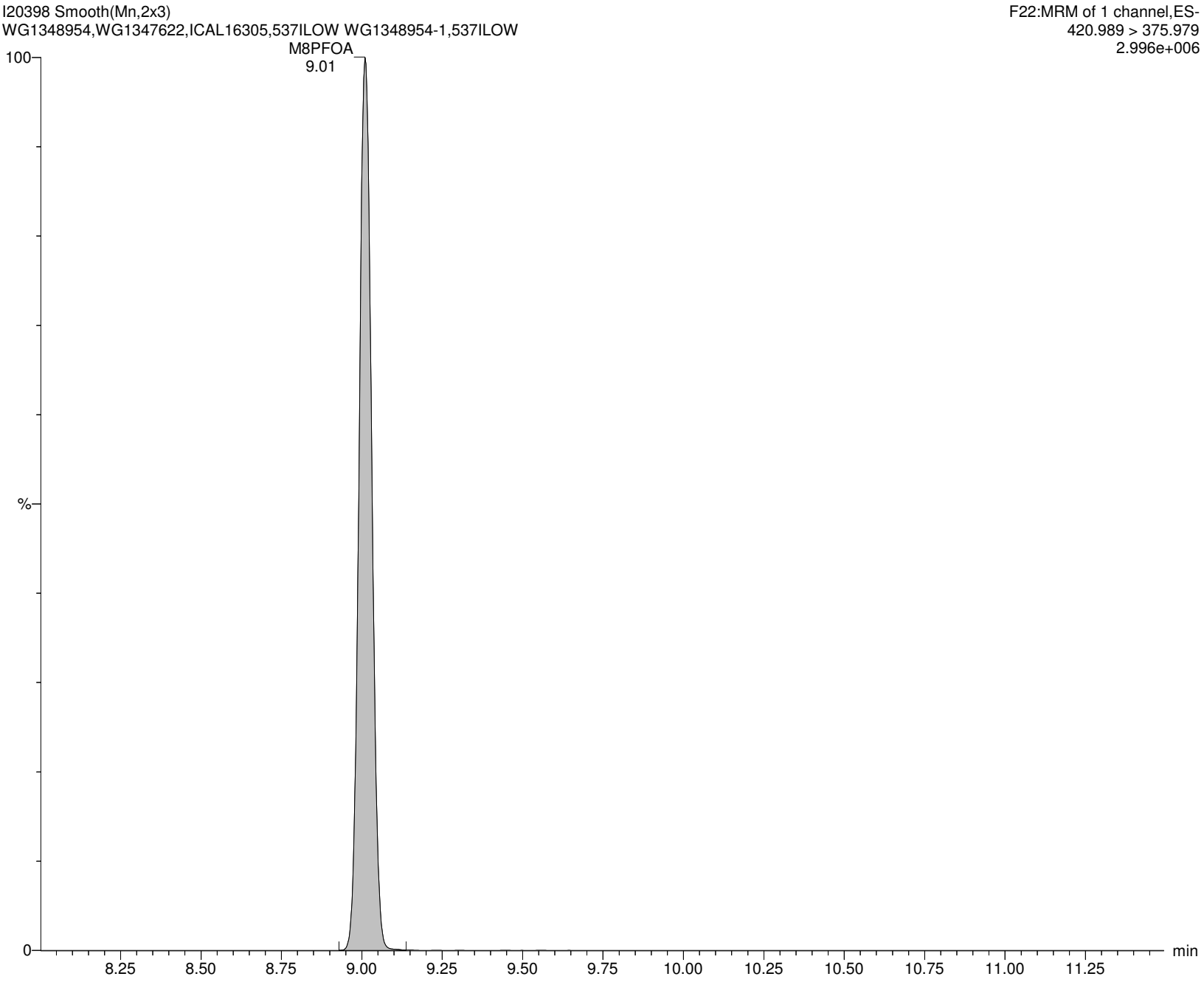

all concentration units in (ng/mL)

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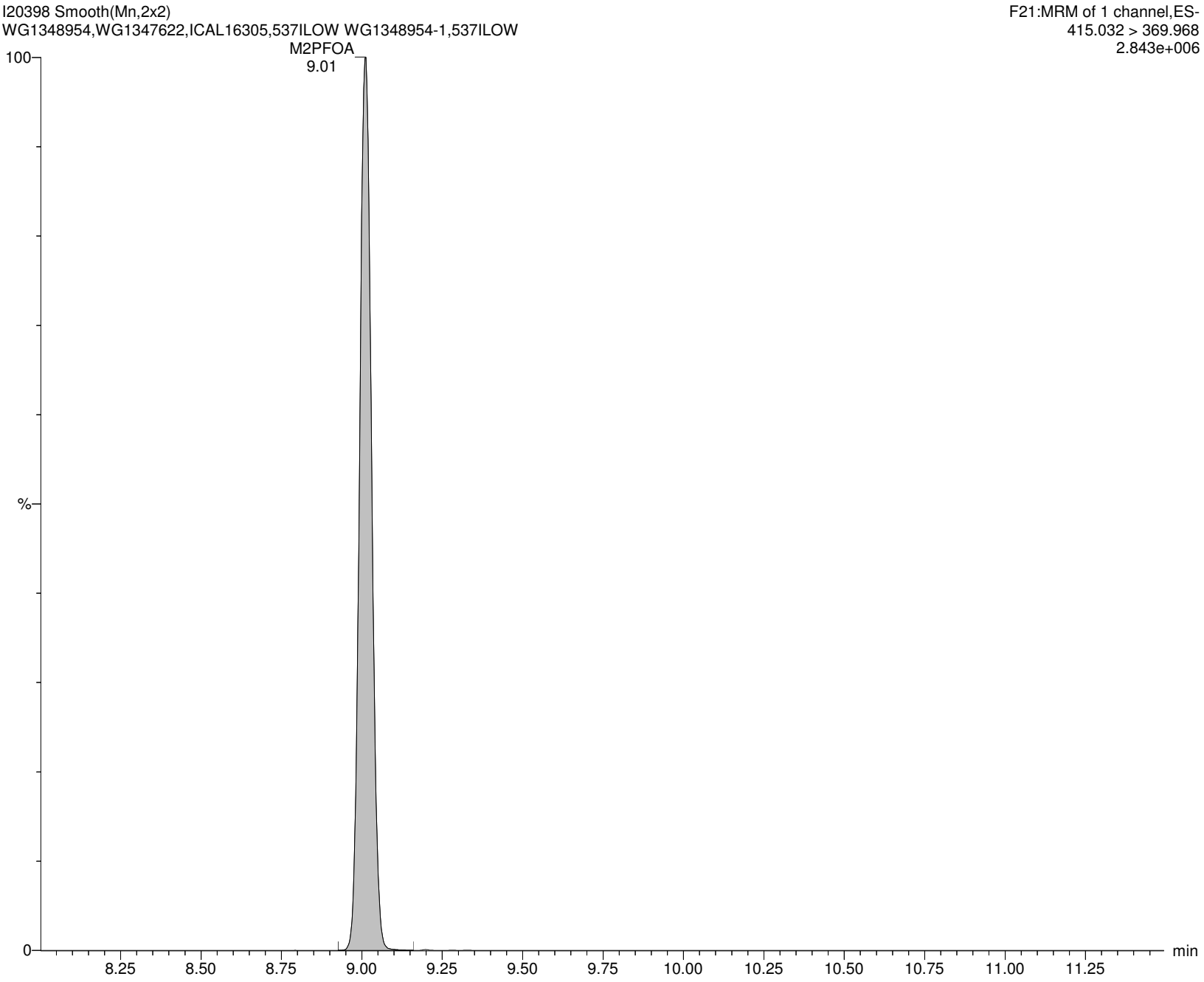

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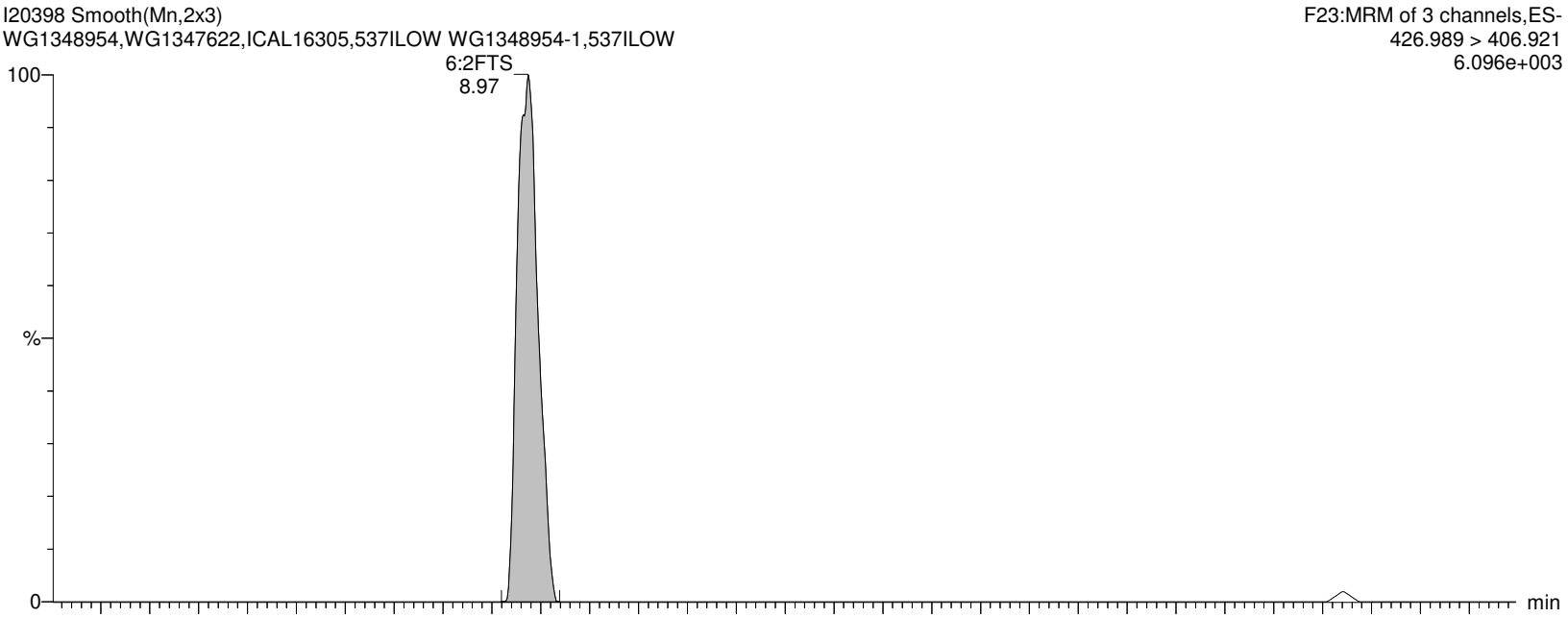

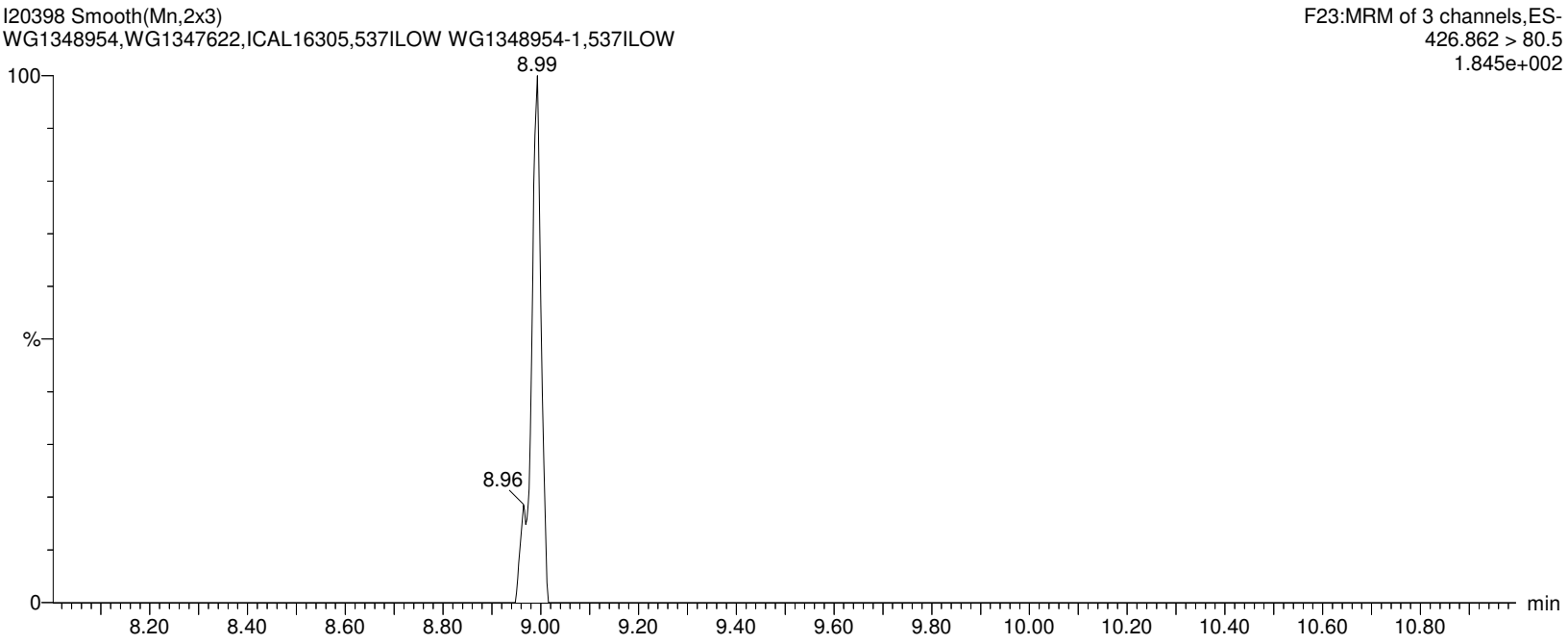

all concentration units in (ng/mL)

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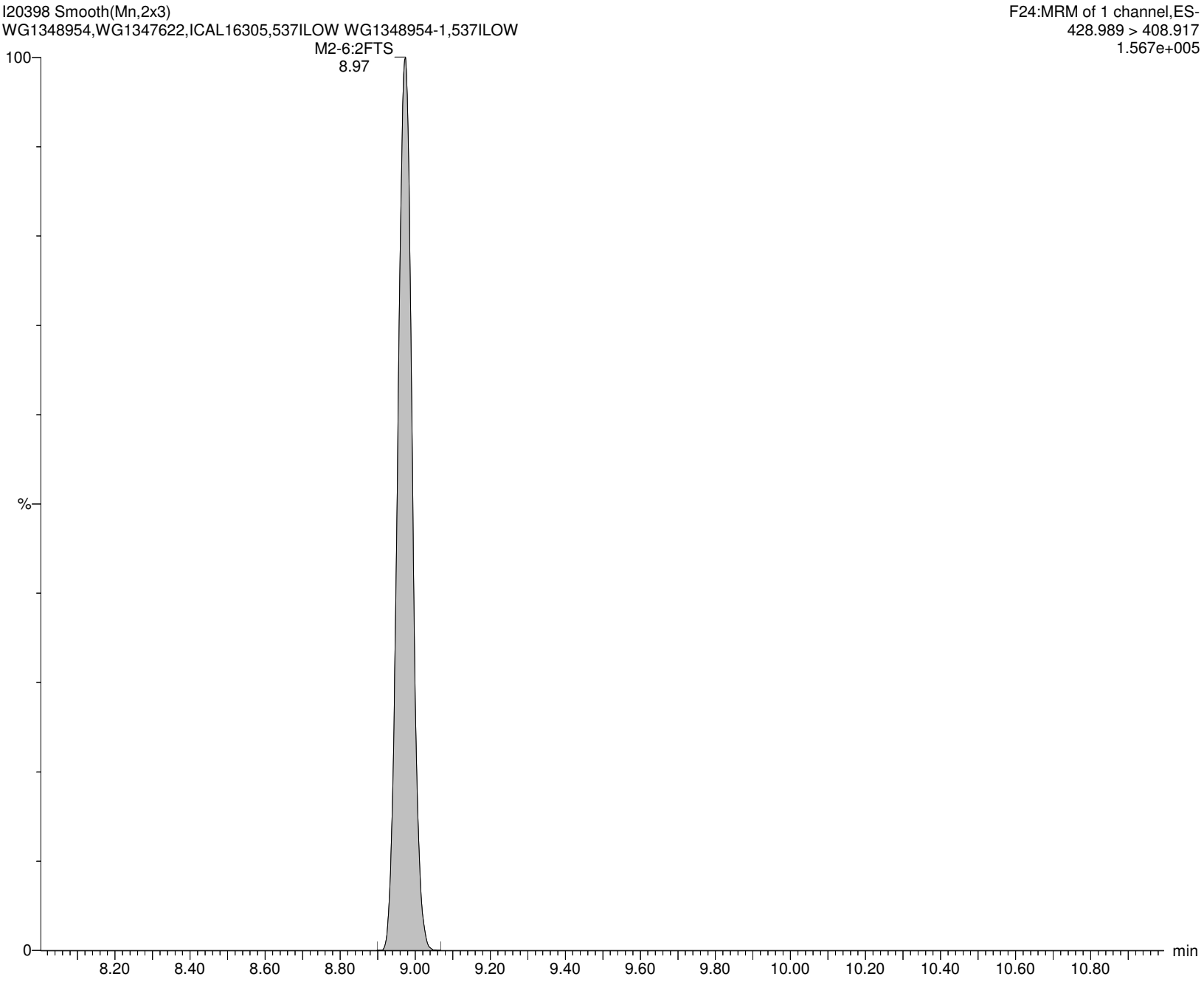

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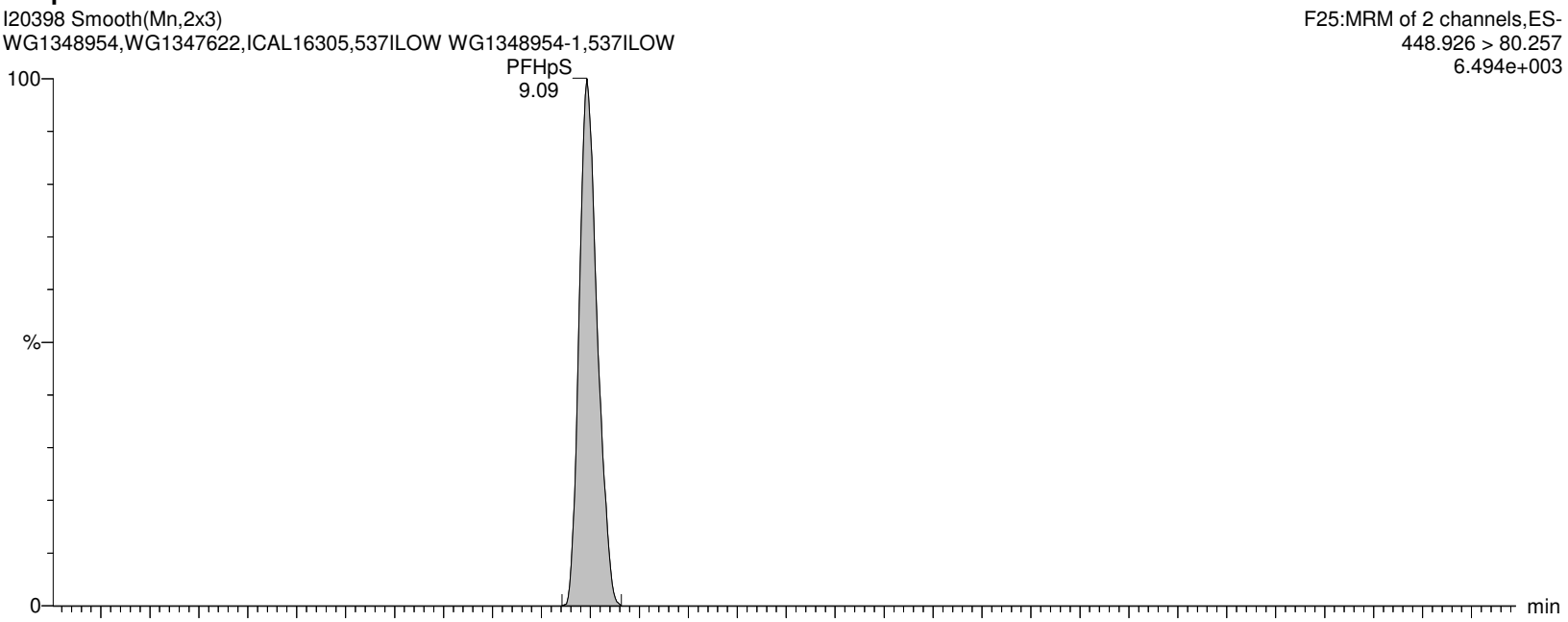

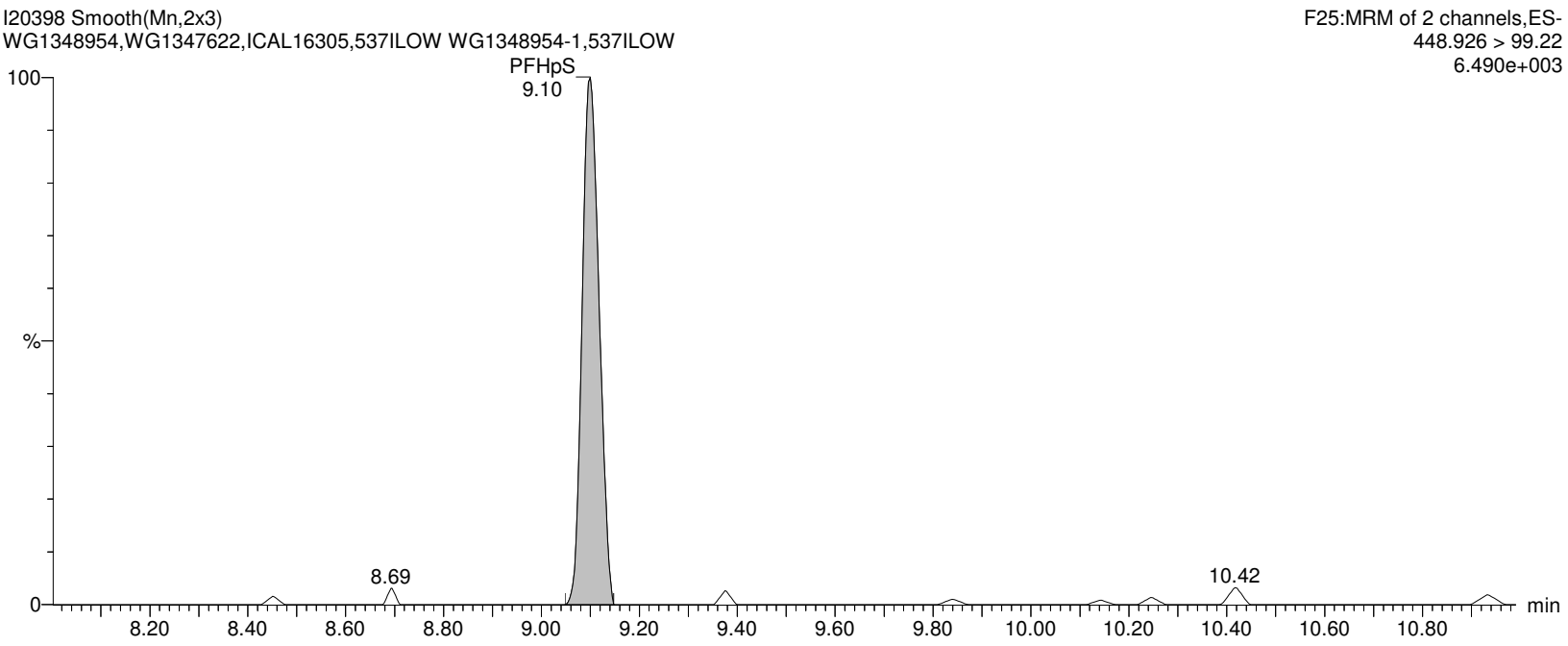

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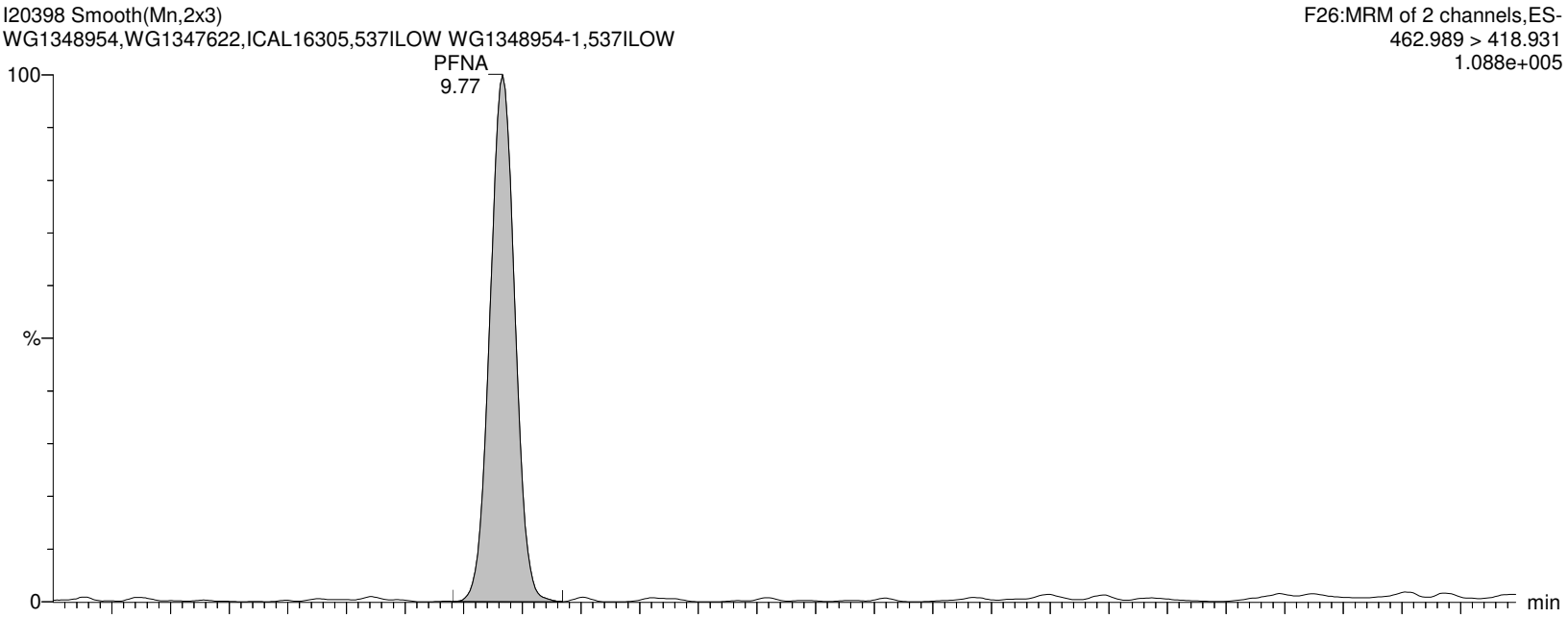

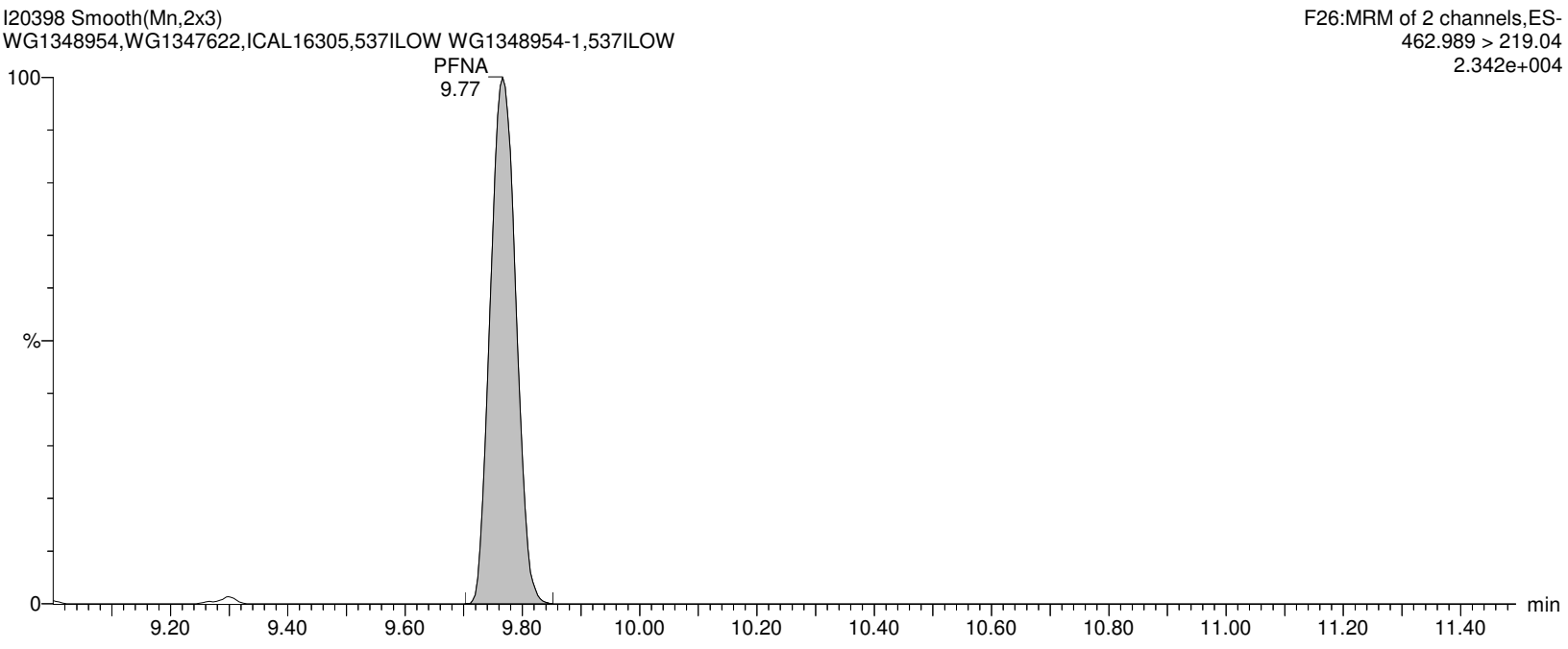

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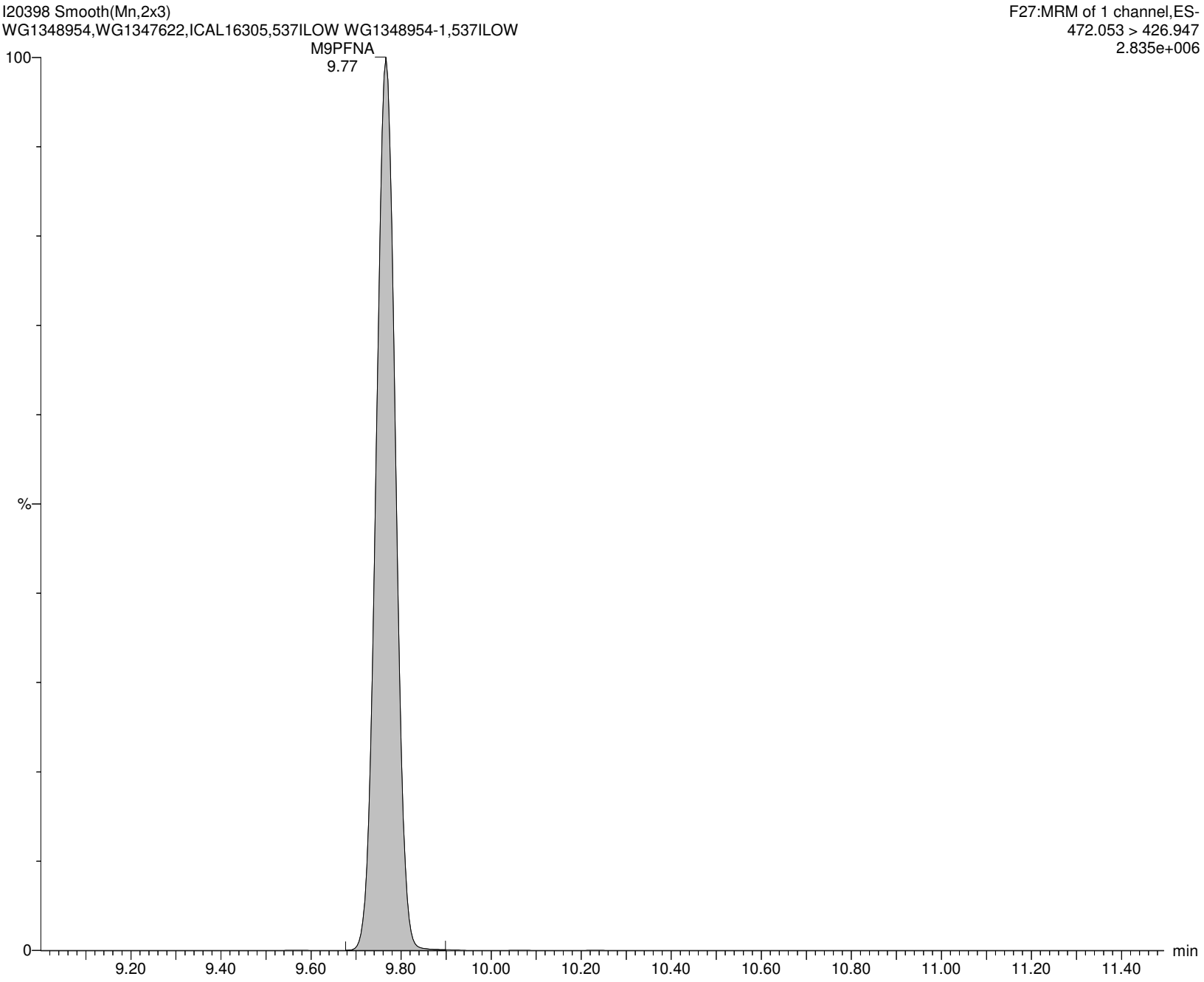
M9PFNA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
Printed: Thursday, March 12, 2020 02:48:34 Eastern Daylight Time

Name: I20398
ID: WG1348954-1,537ILOW
Date: 10-Mar-2020
Time: 10:15:45
Description: WG1348954,WG1347622,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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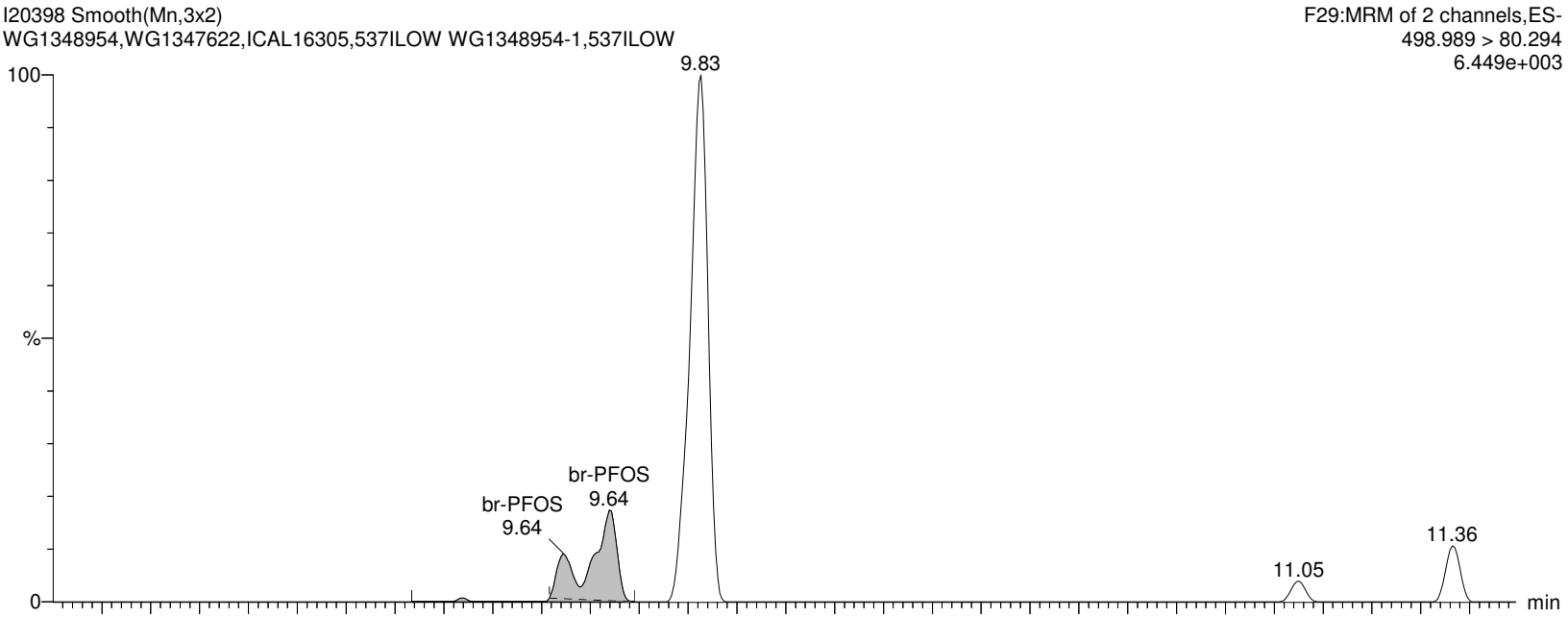

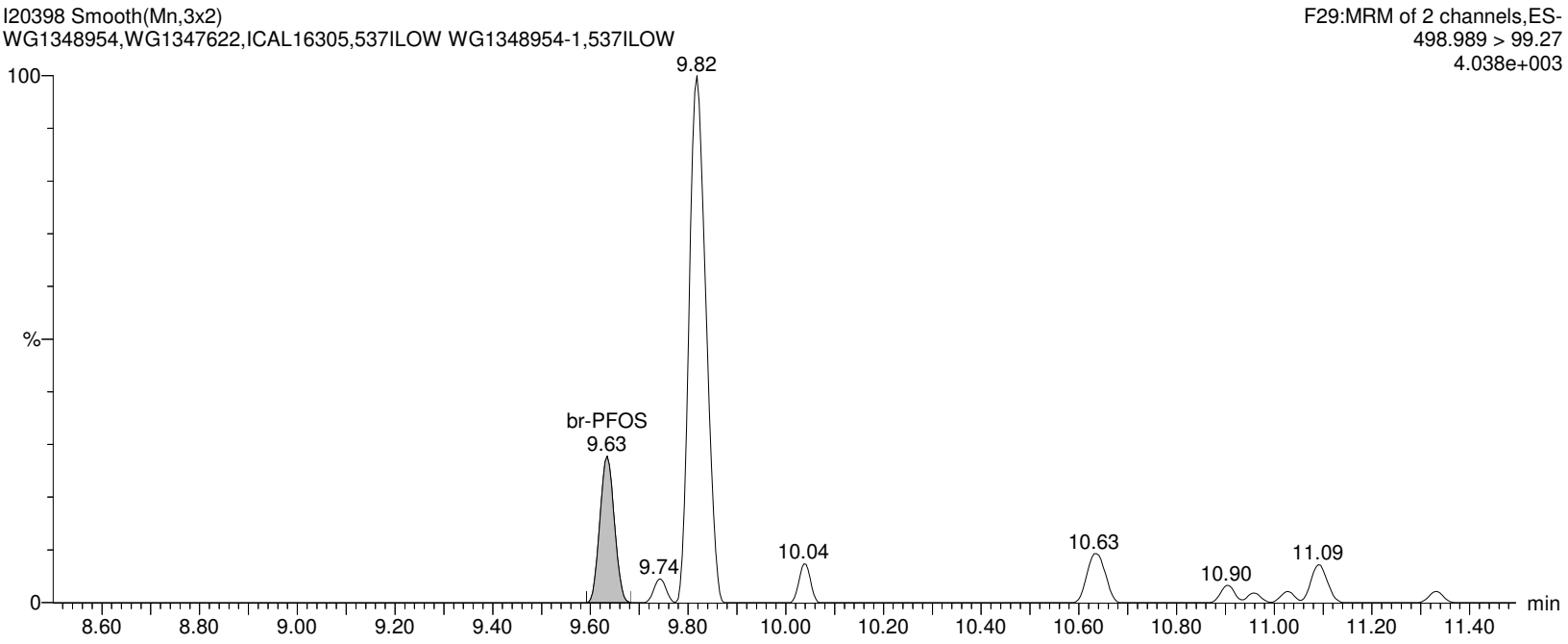

all concentration units in (ng/mL)

Alpha Analytical Inc.
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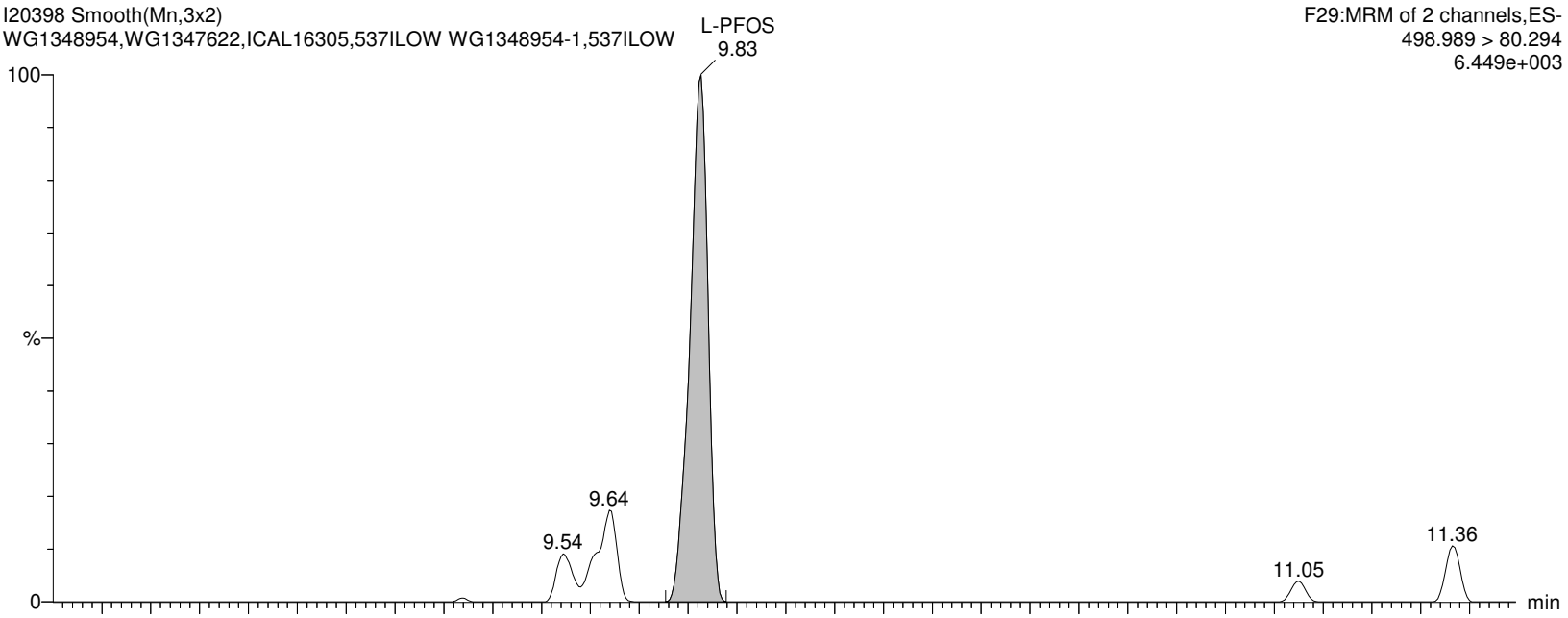

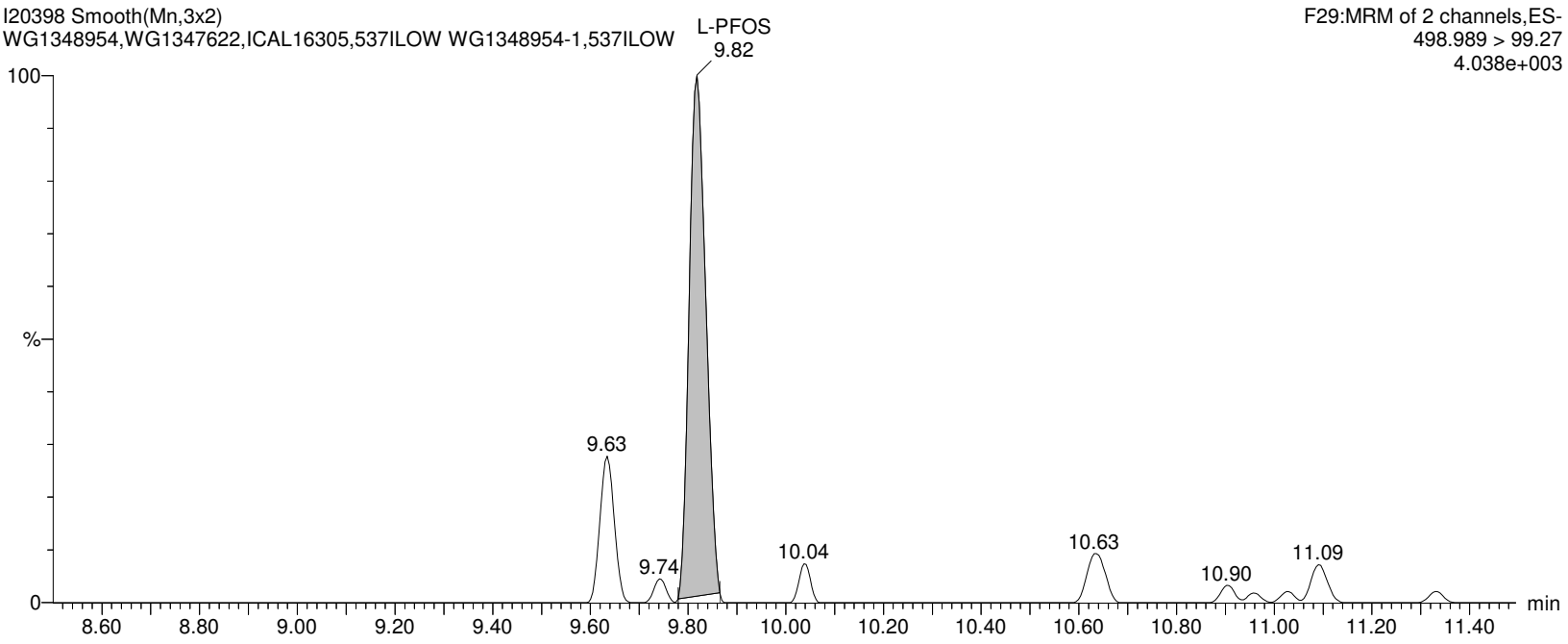

all concentration units in (ng/mL)

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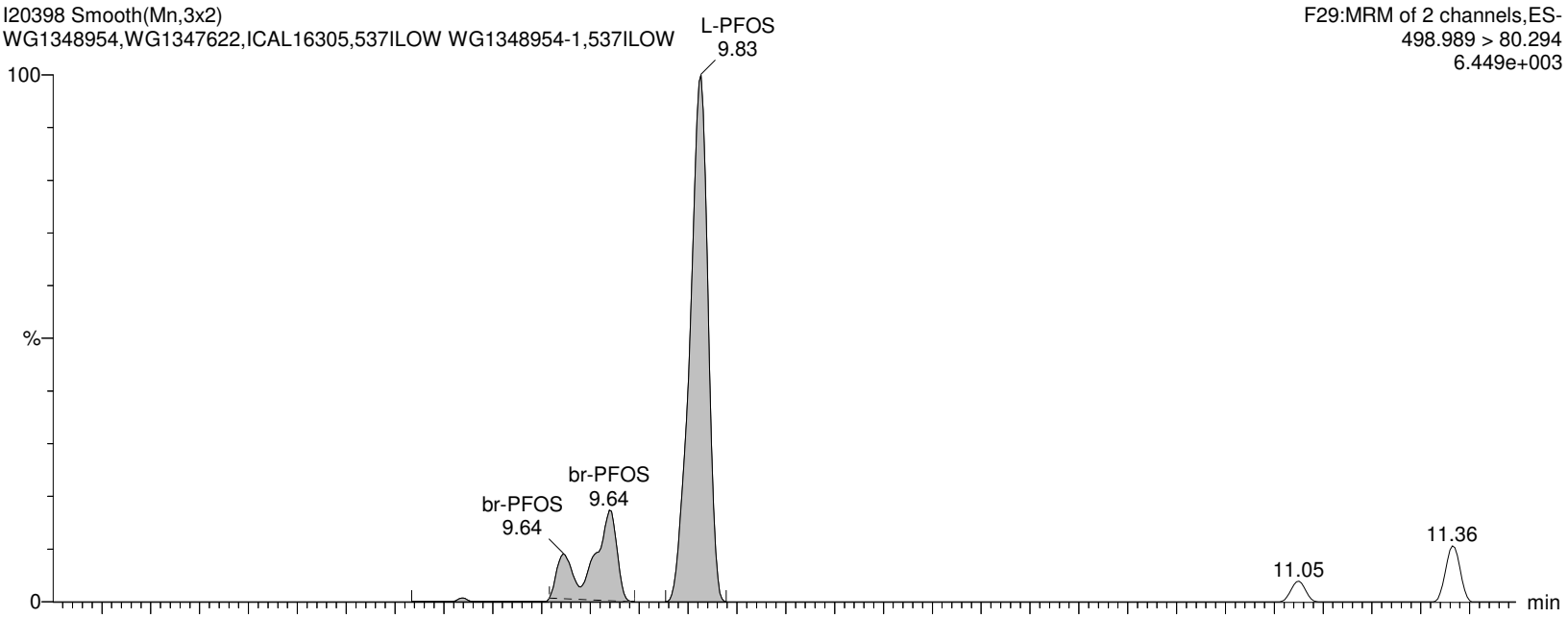

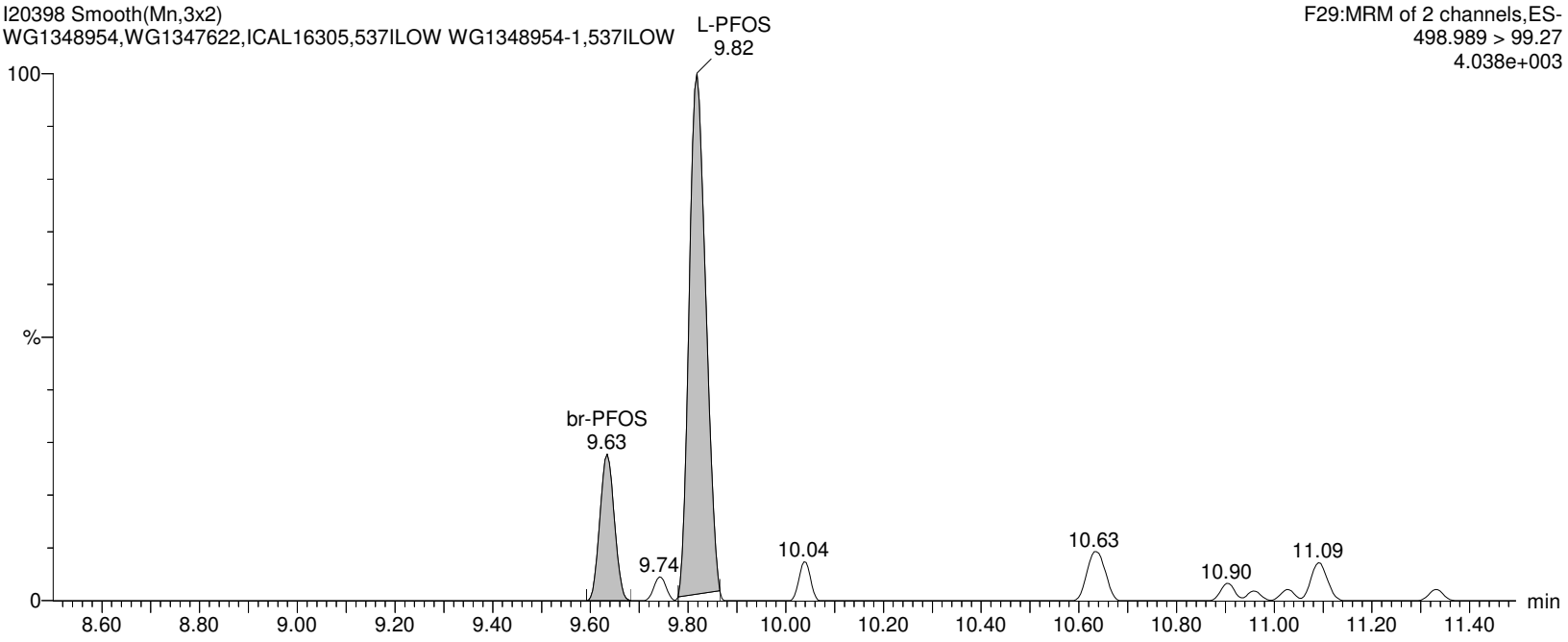

all concentration units in (ng/mL)

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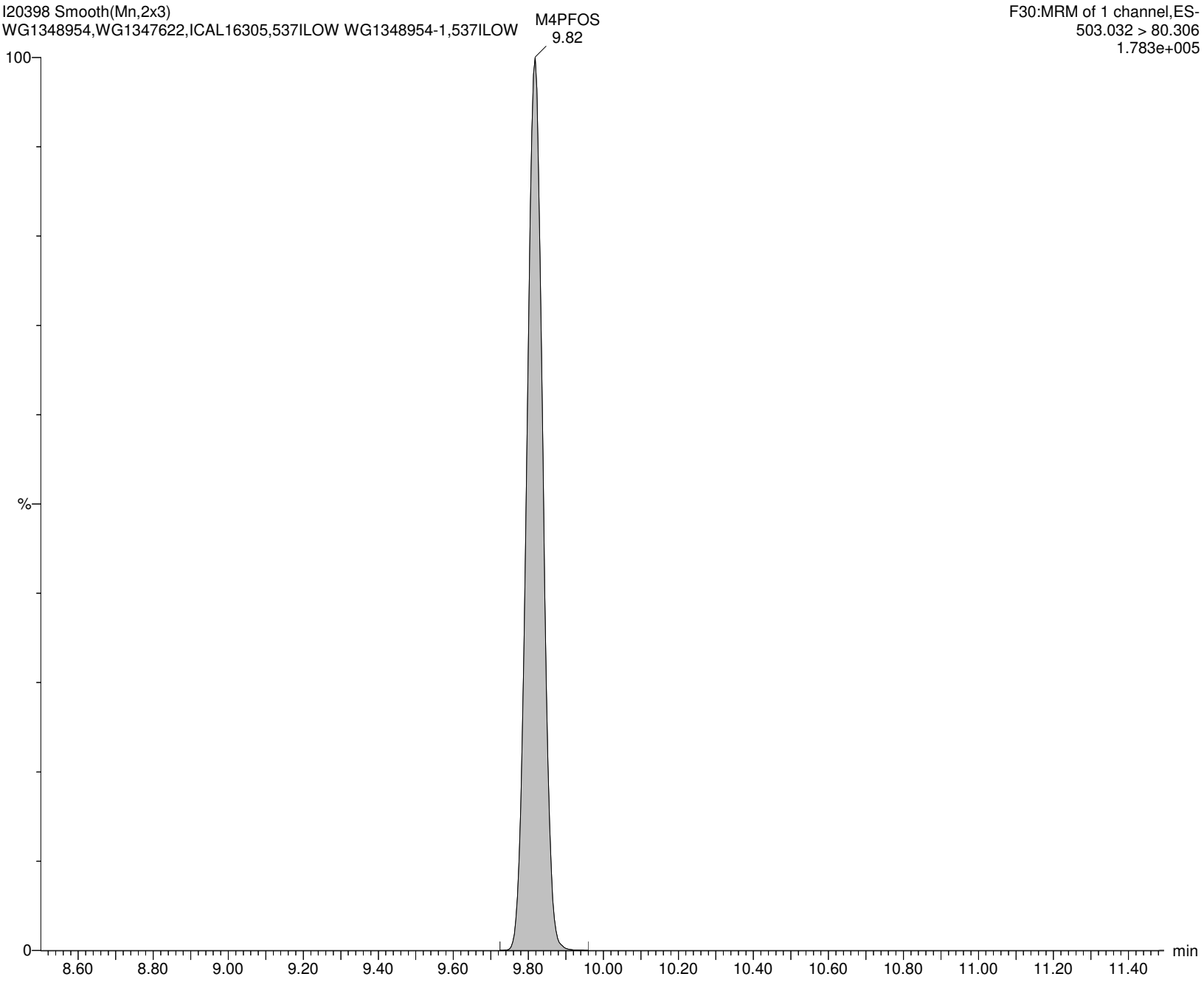

all concentration units in (ng/mL)

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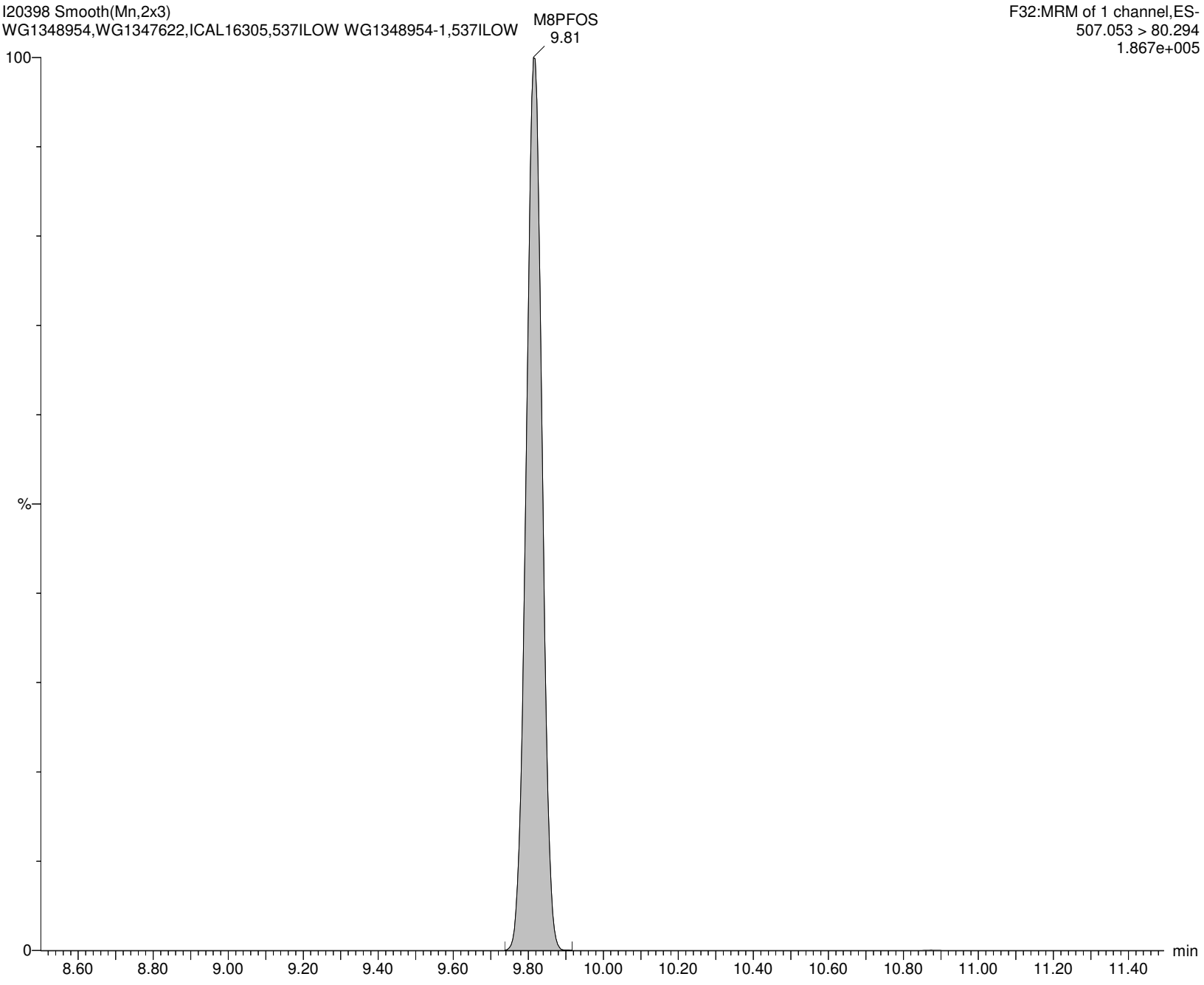

all concentration units in (ng/mL)

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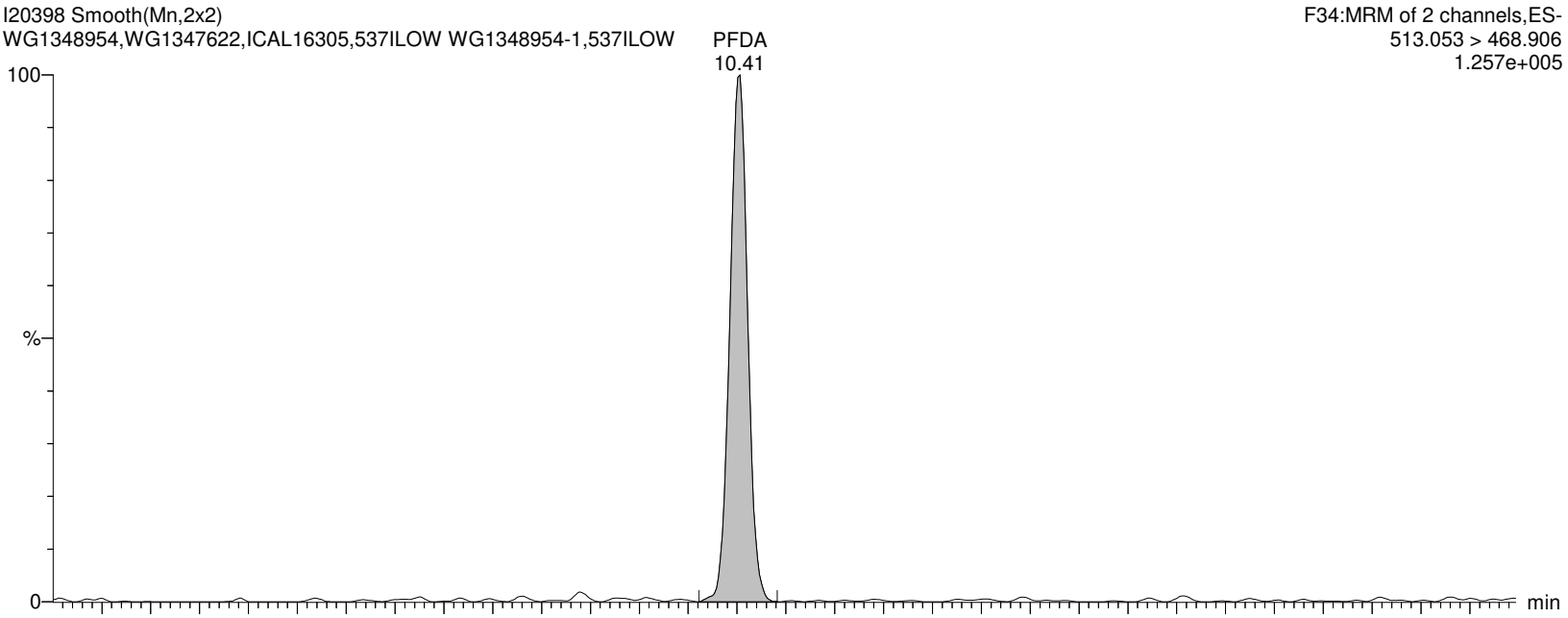

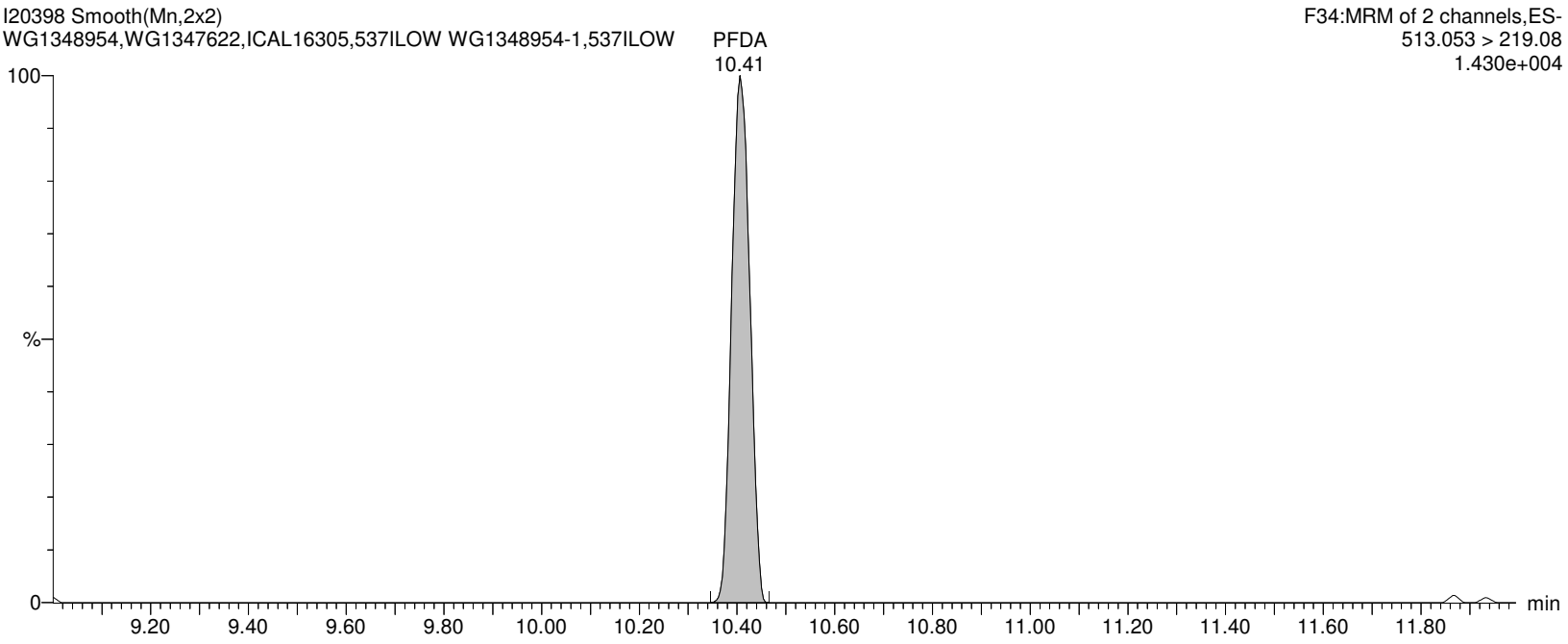

all concentration units in (ng/mL)

Alpha Analytical Inc.
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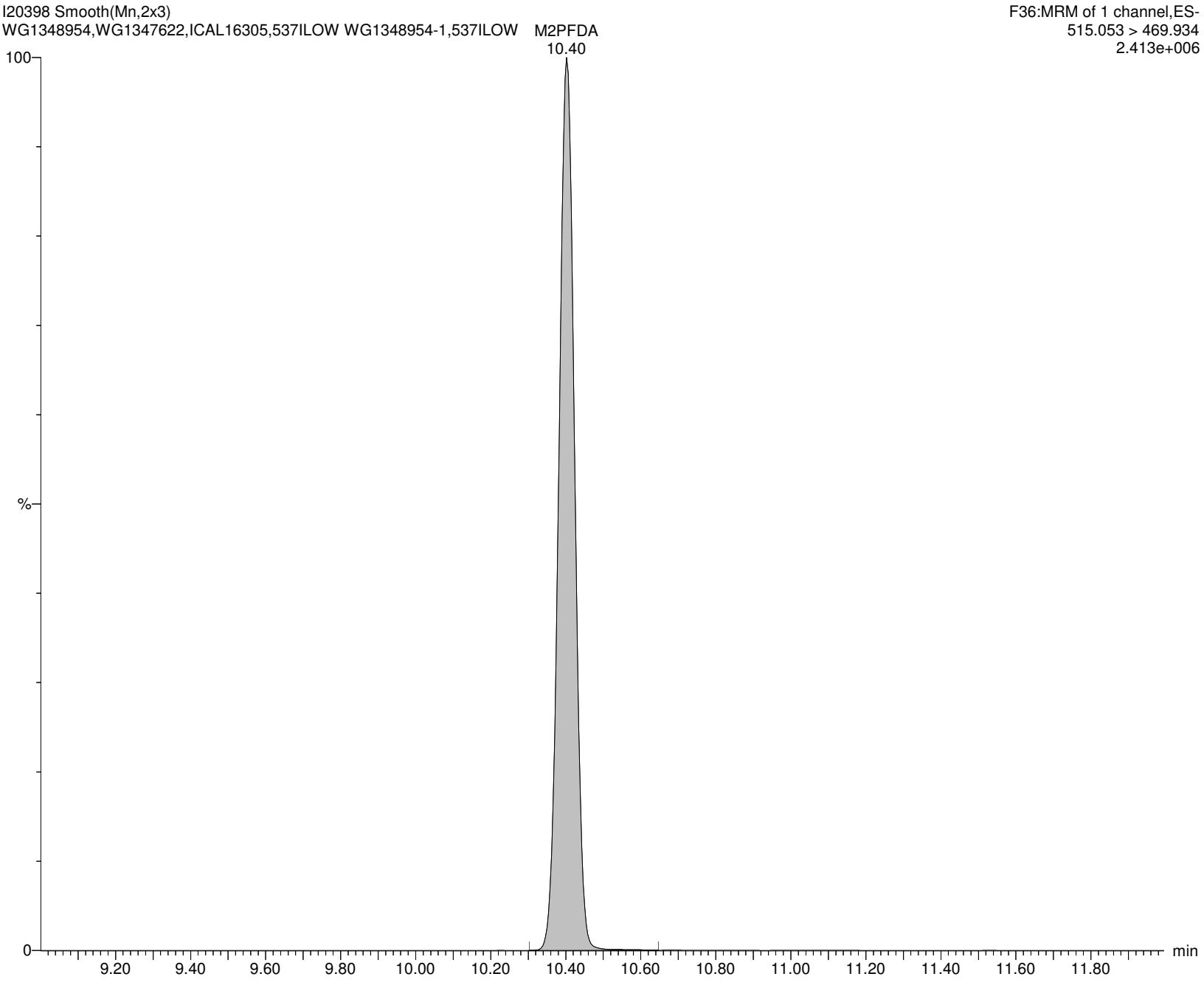

all concentration units in (ng/mL)

Alpha Analytical Inc.
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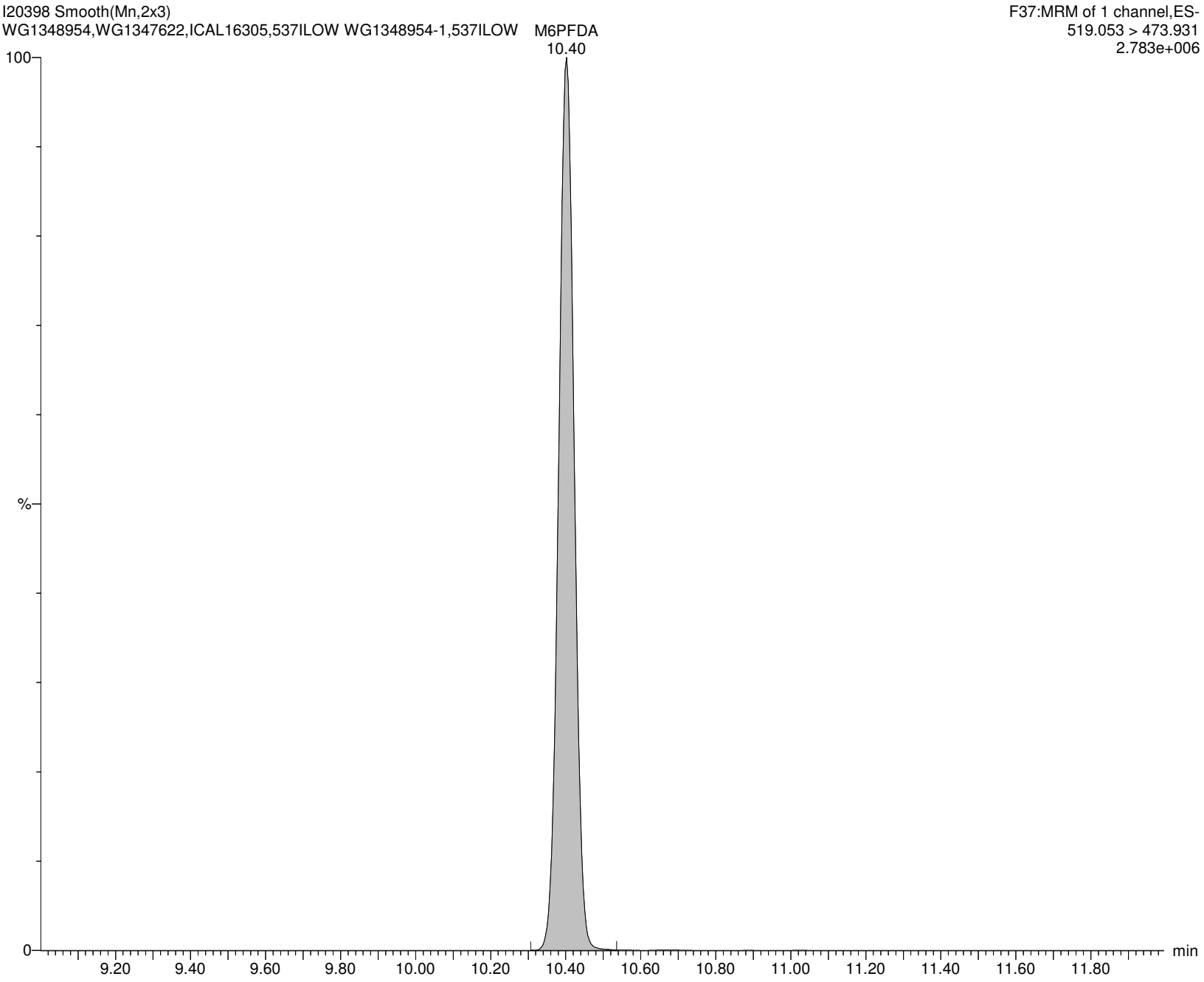

all concentration units in (ng/mL)

Alpha Analytical Inc.
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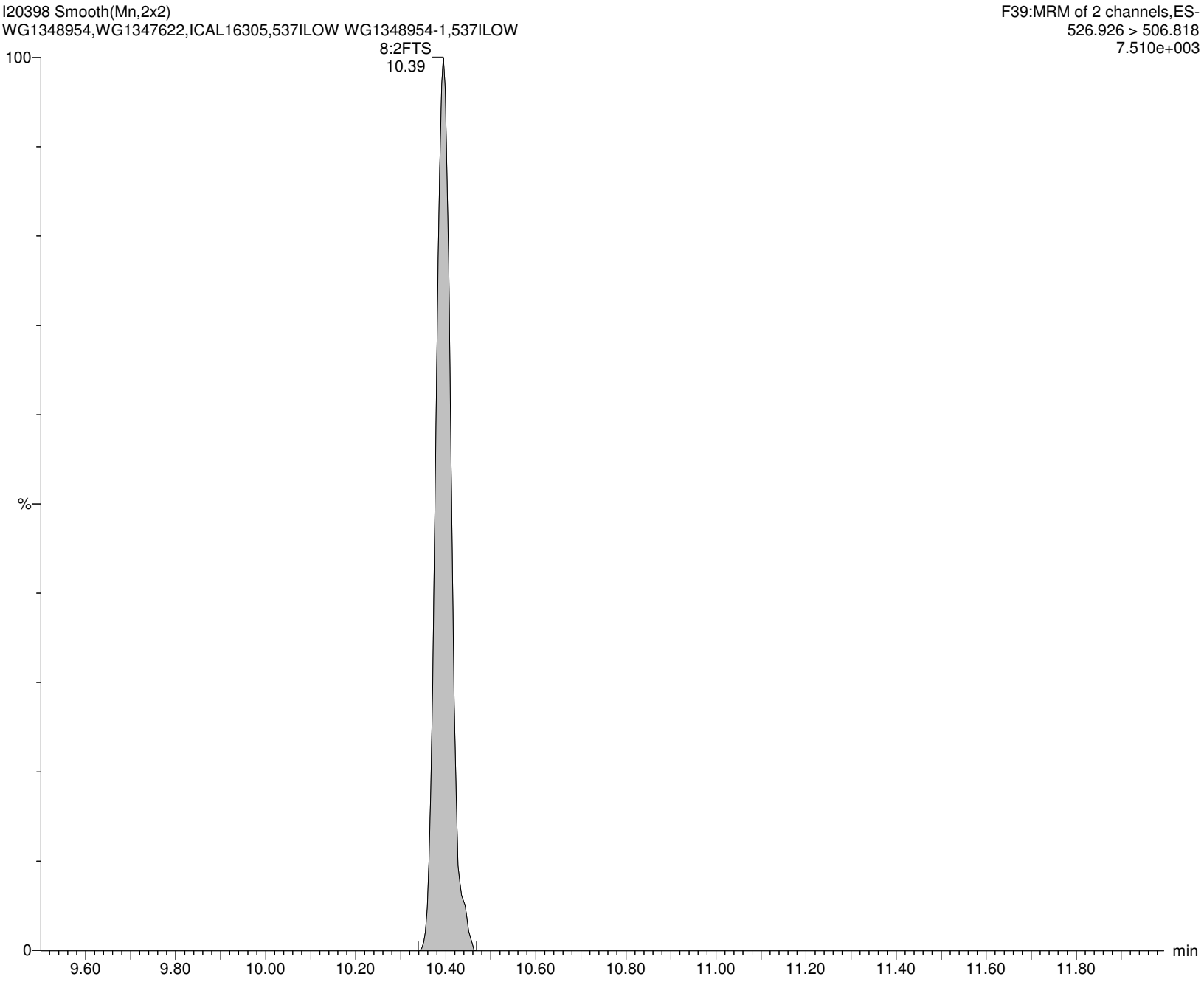

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
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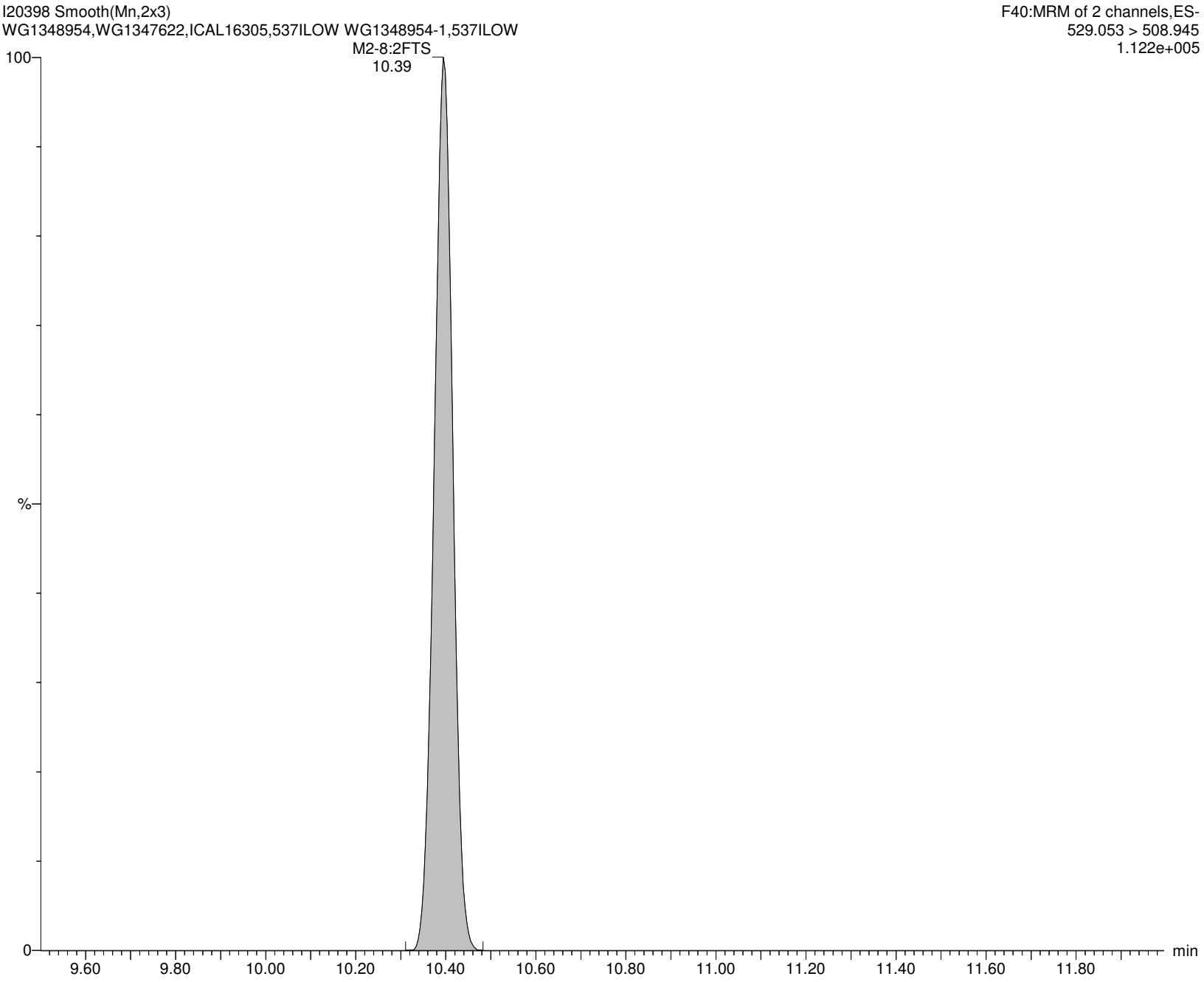

all concentration units in (ng/mL)

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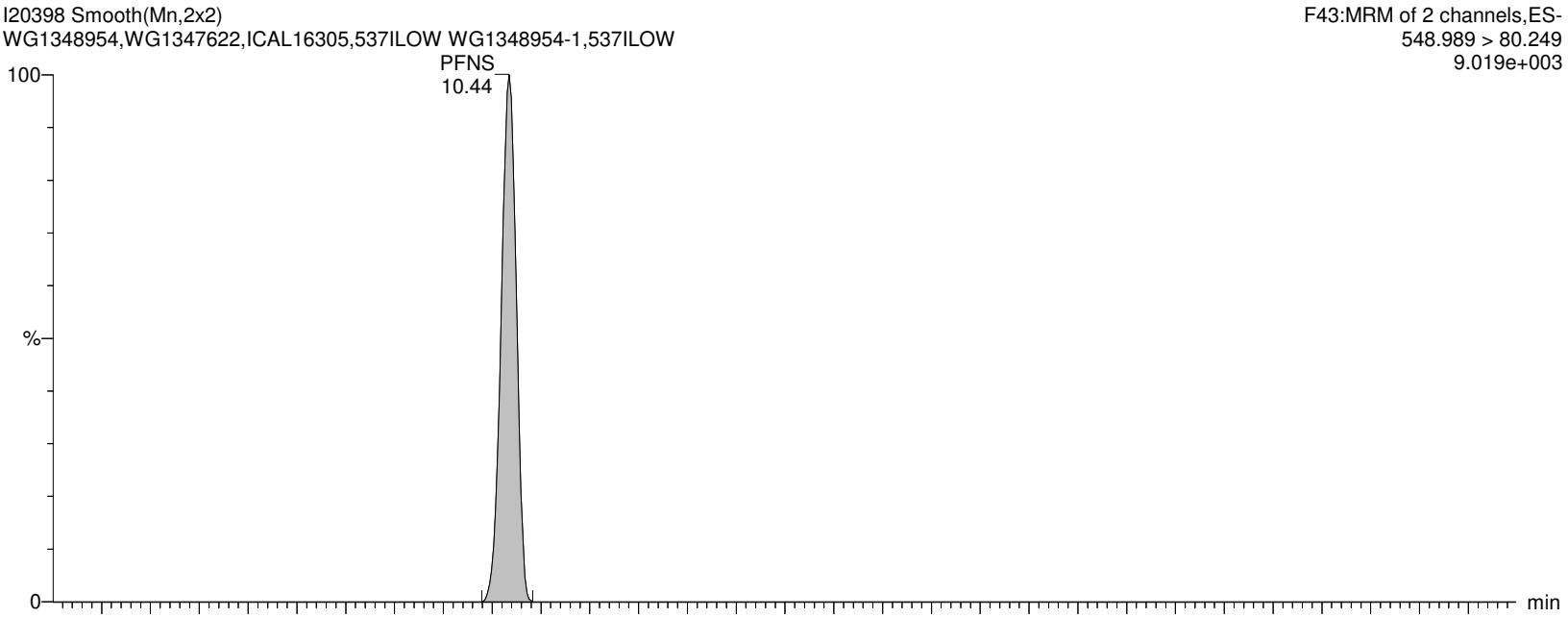

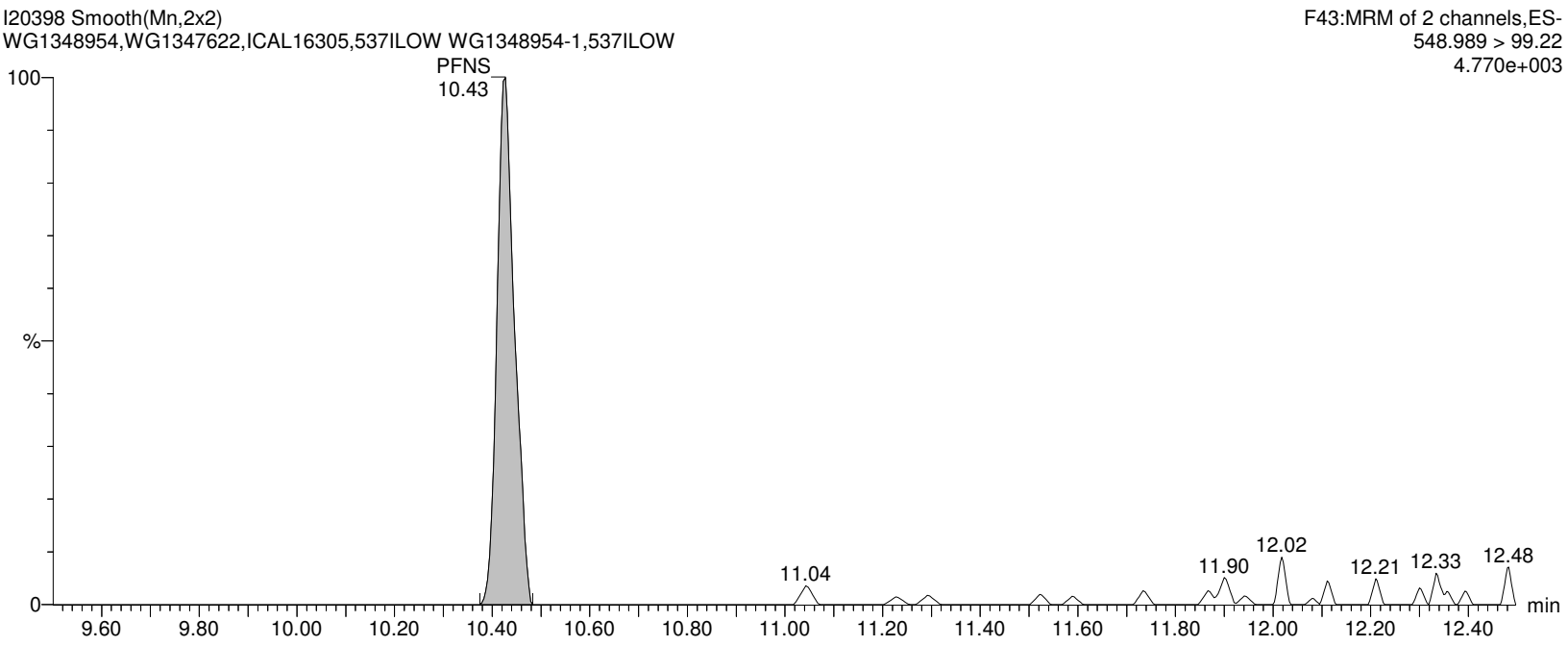

all concentration units in (ng/mL)

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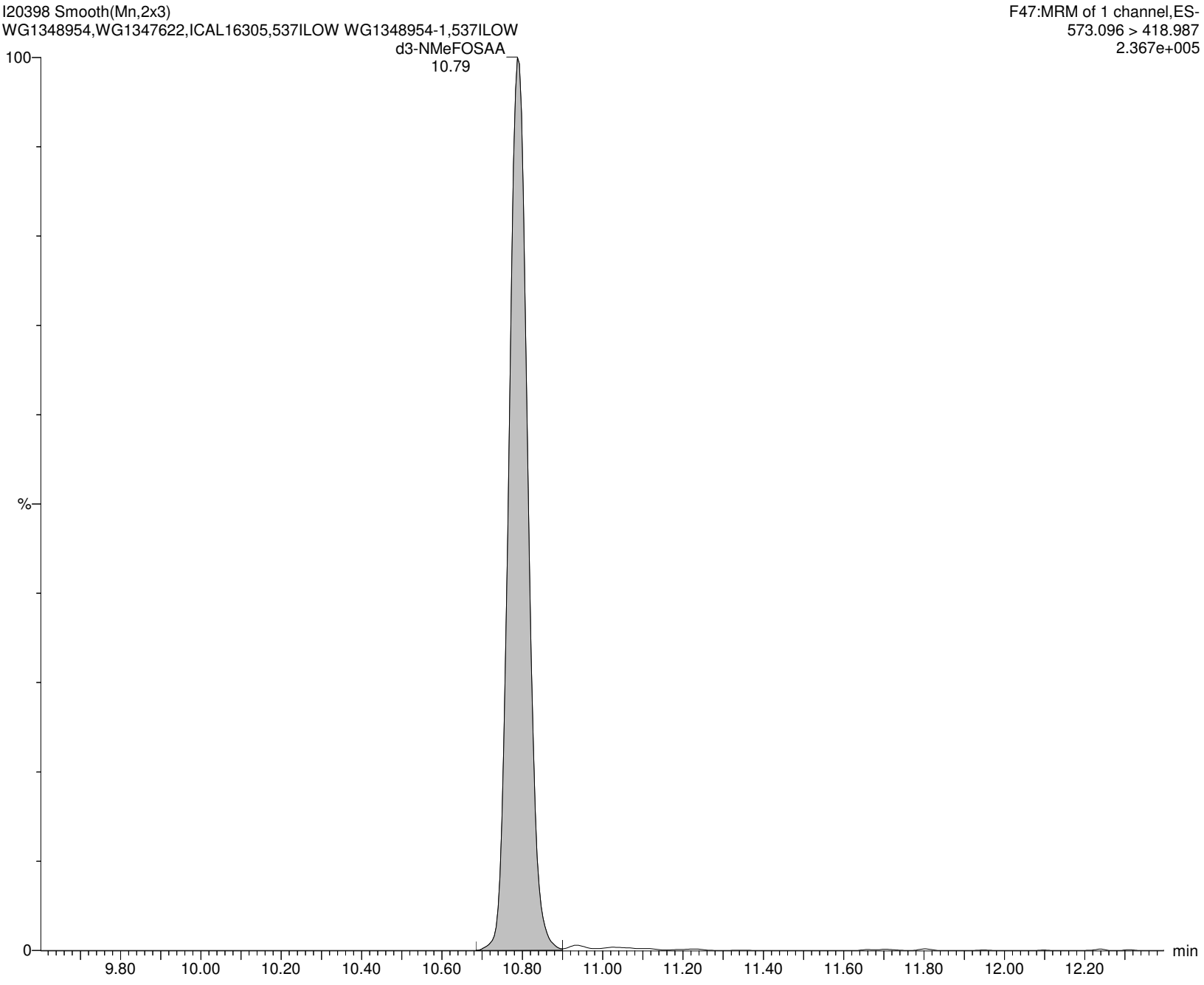

all concentration units in (ng/mL)

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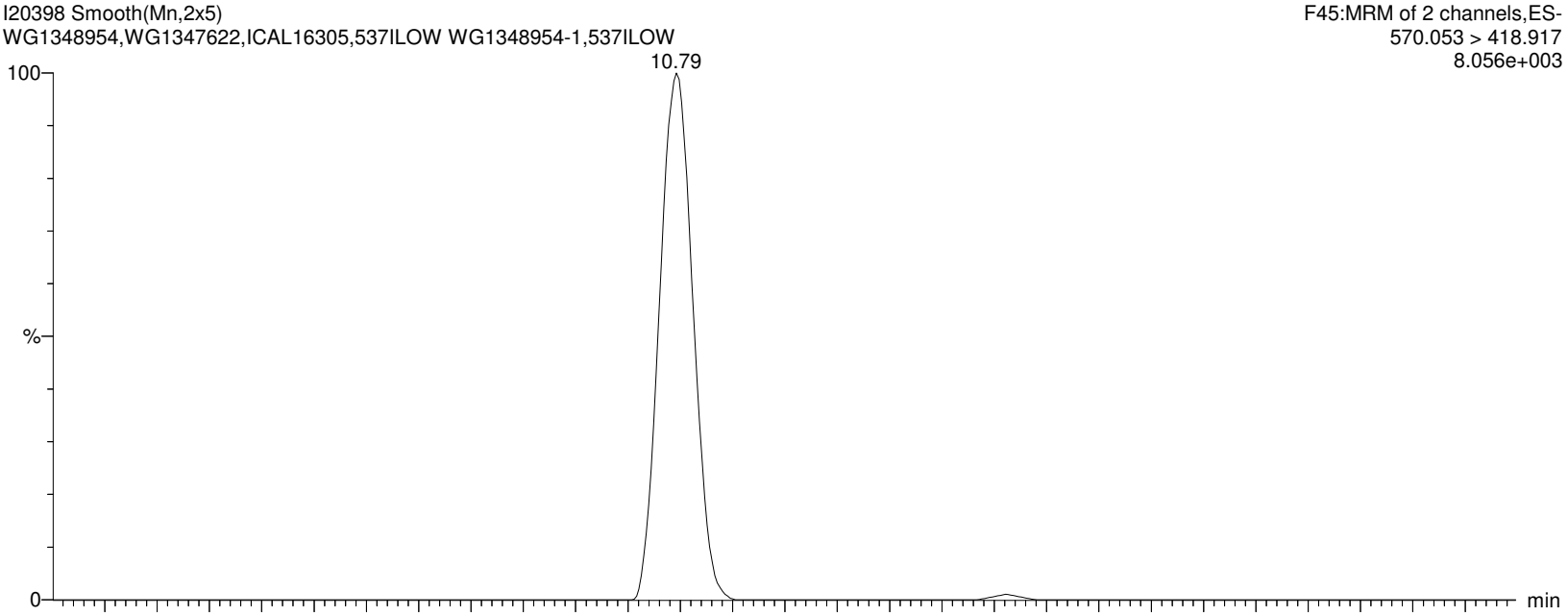

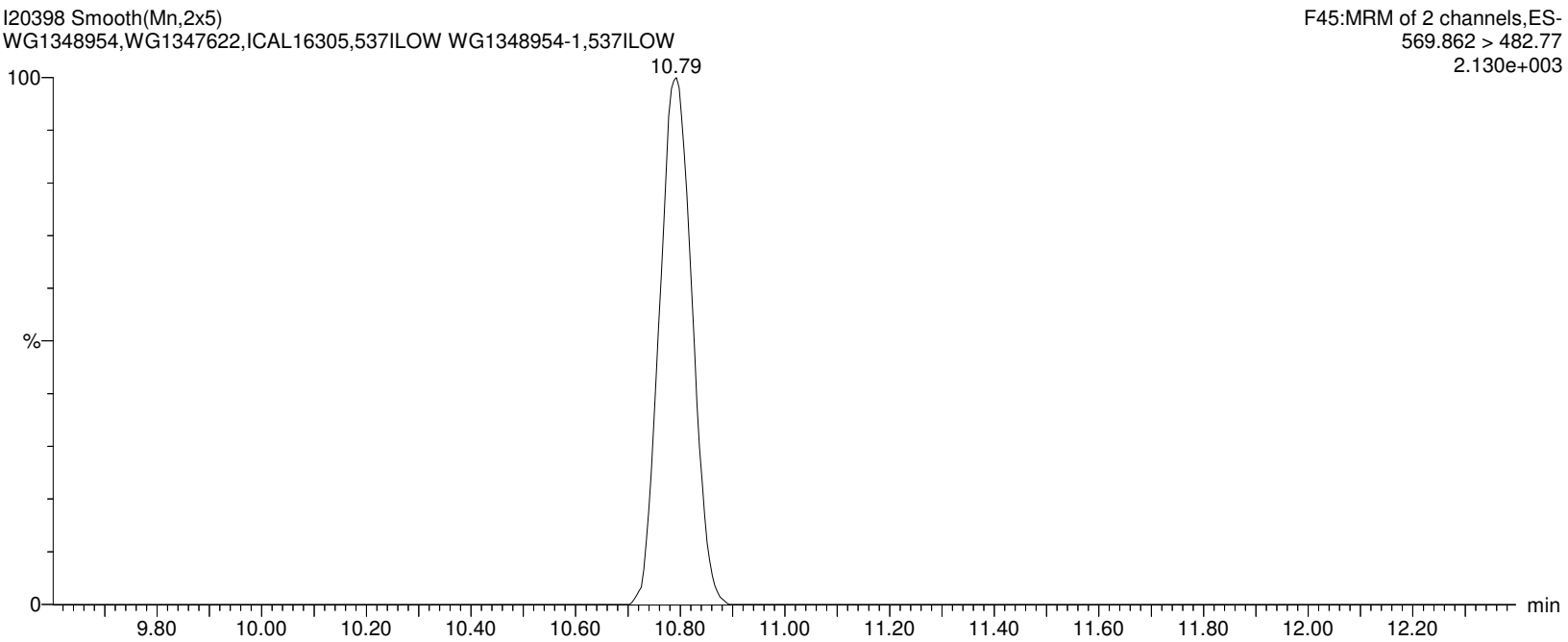

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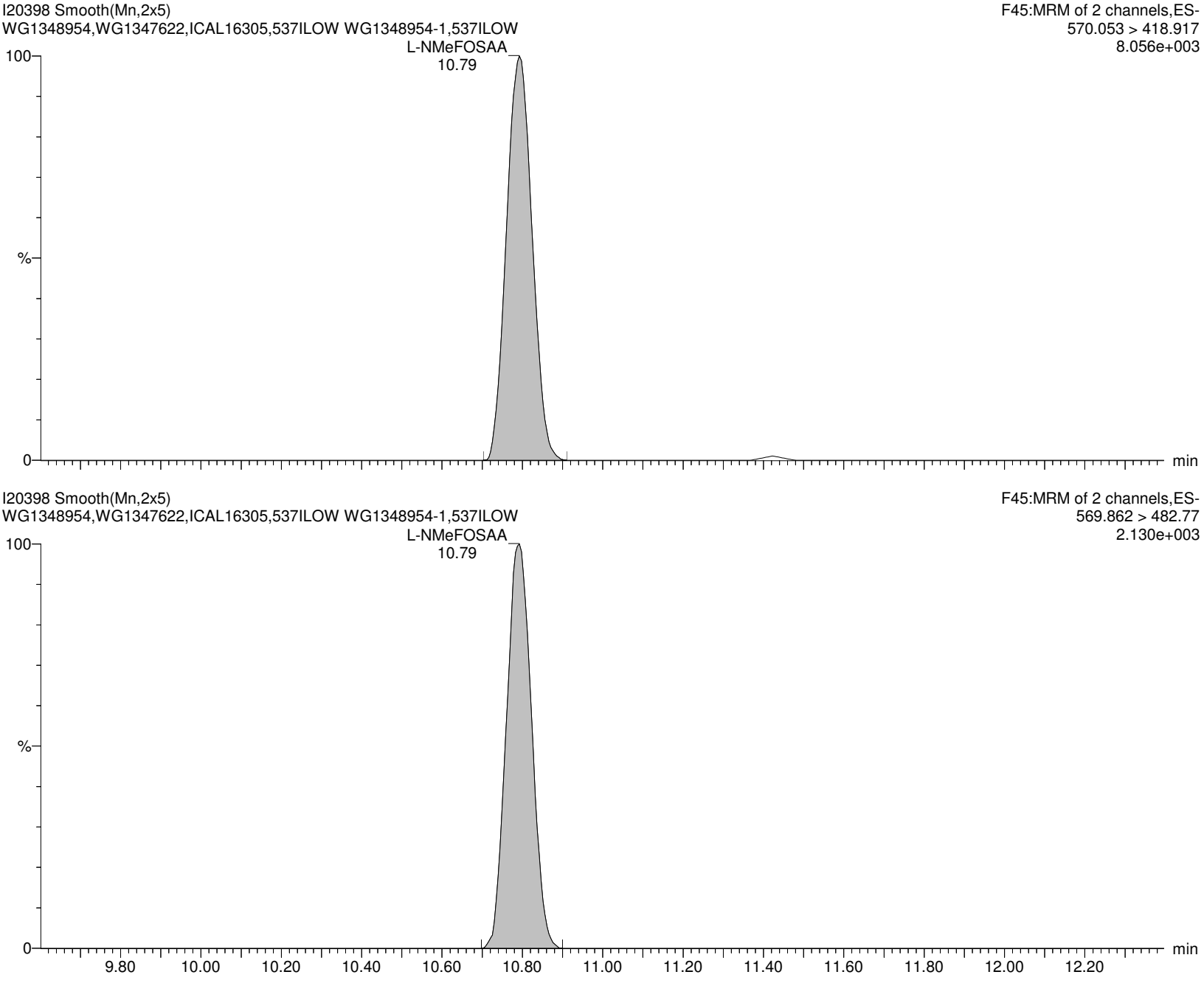

all concentration units in (ng/mL)

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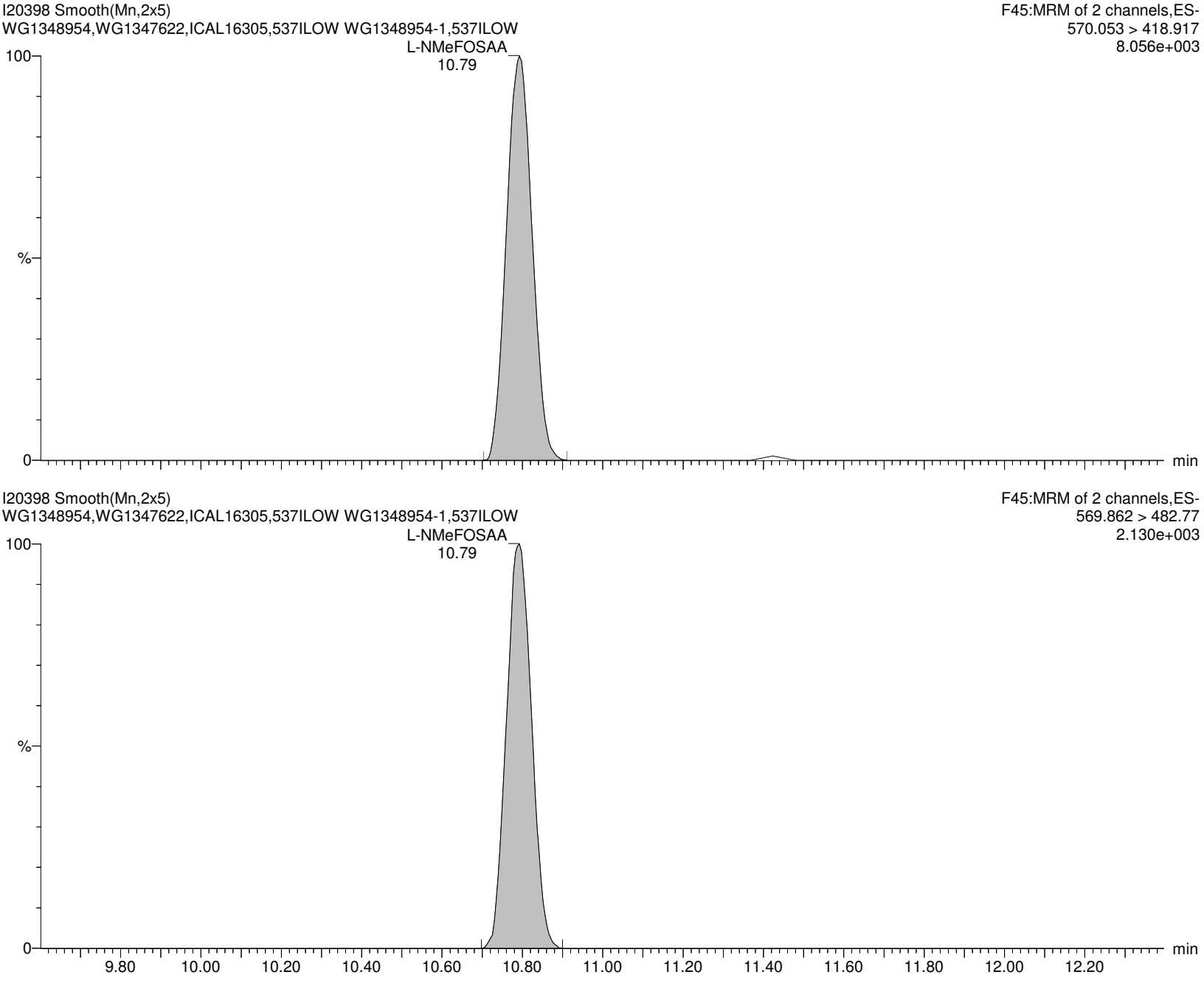

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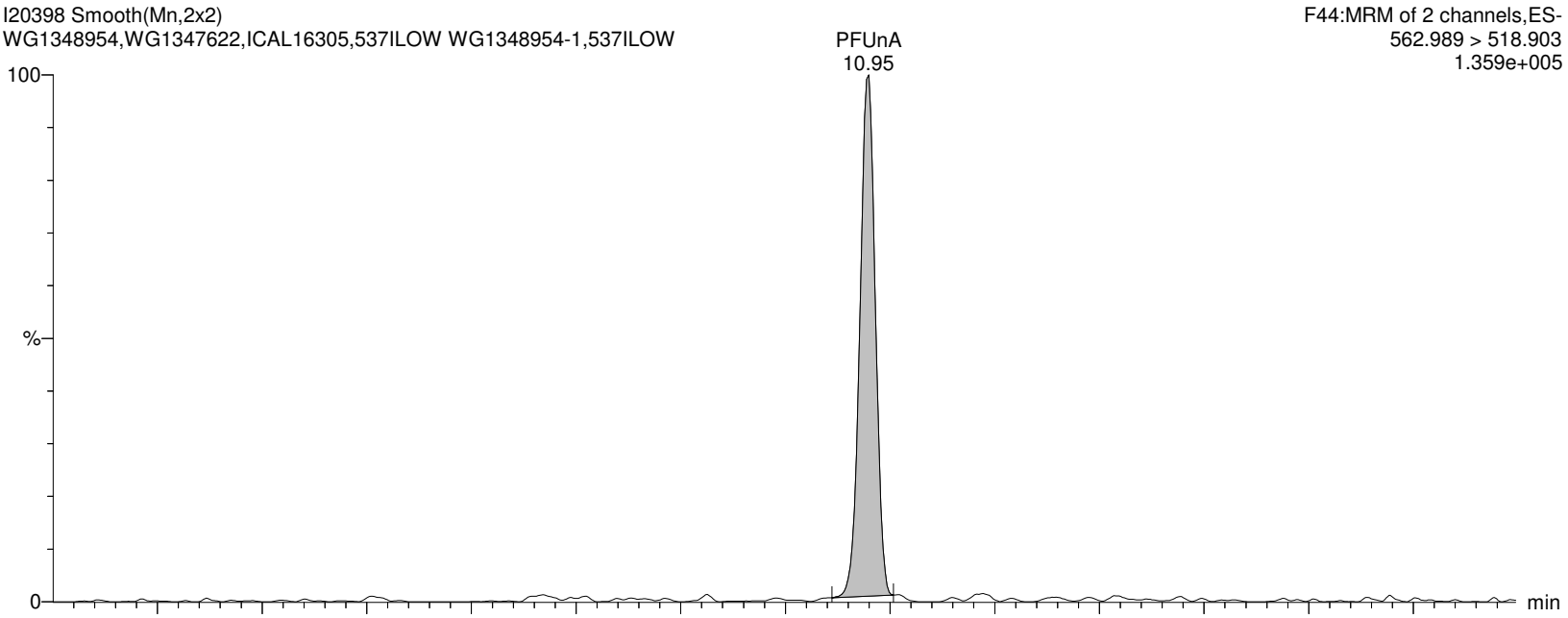
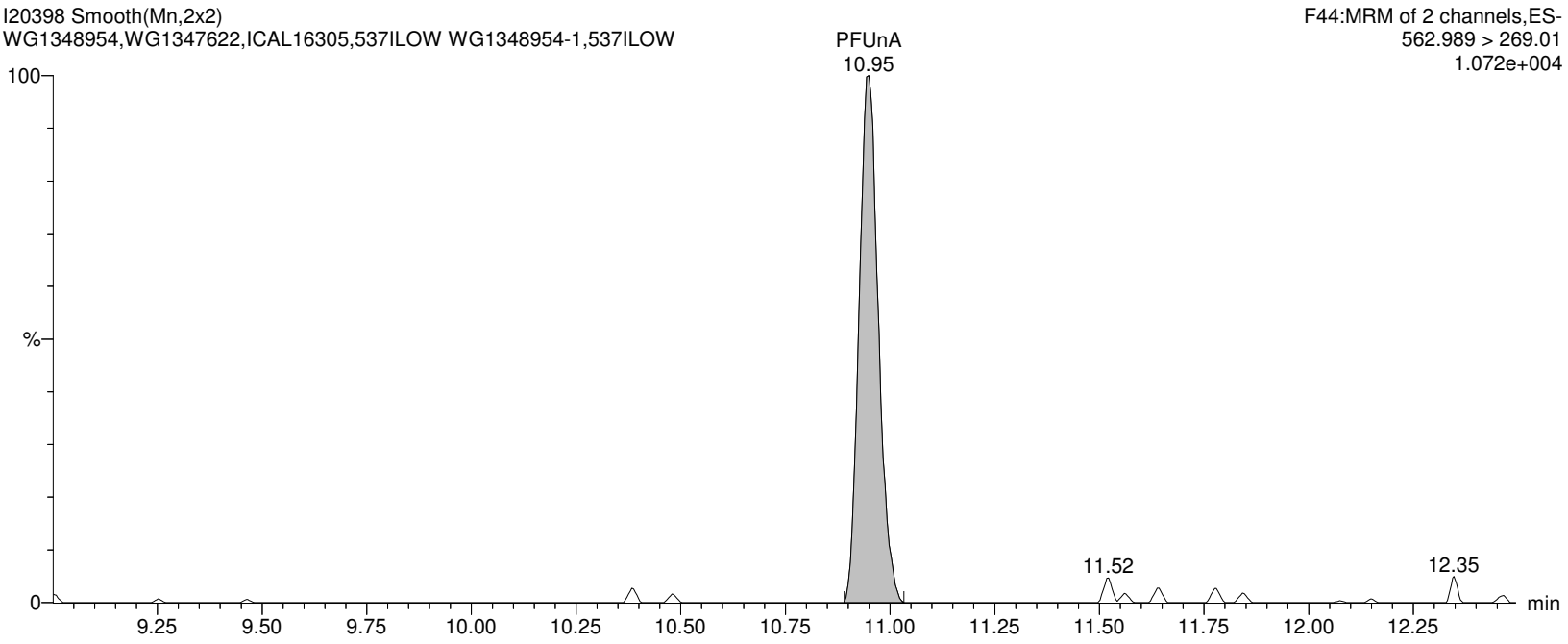
PFUnA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
Printed: Thursday, March 12, 2020 02:48:34 Eastern Daylight Time

Name: I20398
ID: WG1348954-1,537ILOW
Date: 10-Mar-2020
Time: 10:15:45
Description: WG1348954,WG1347622,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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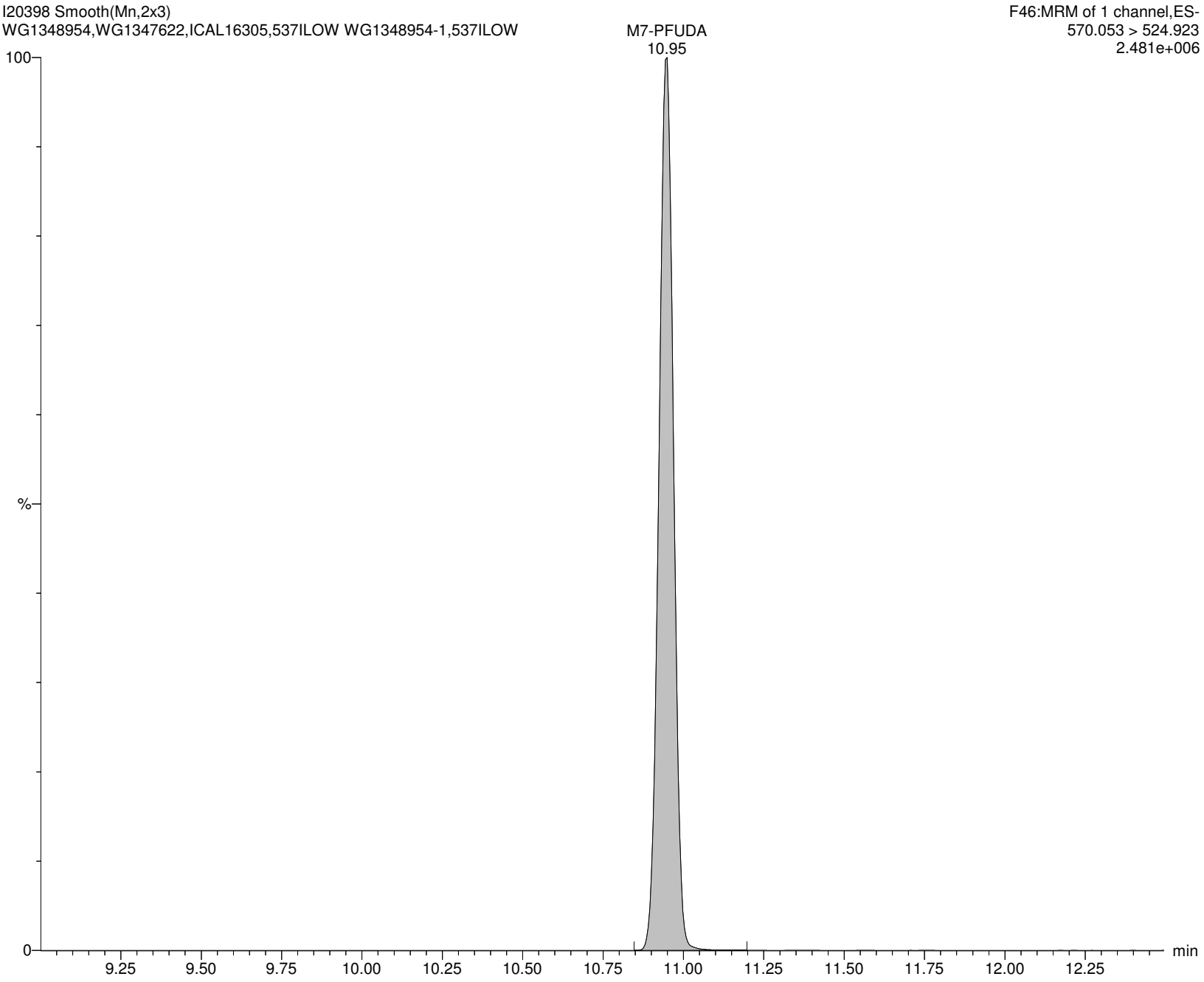

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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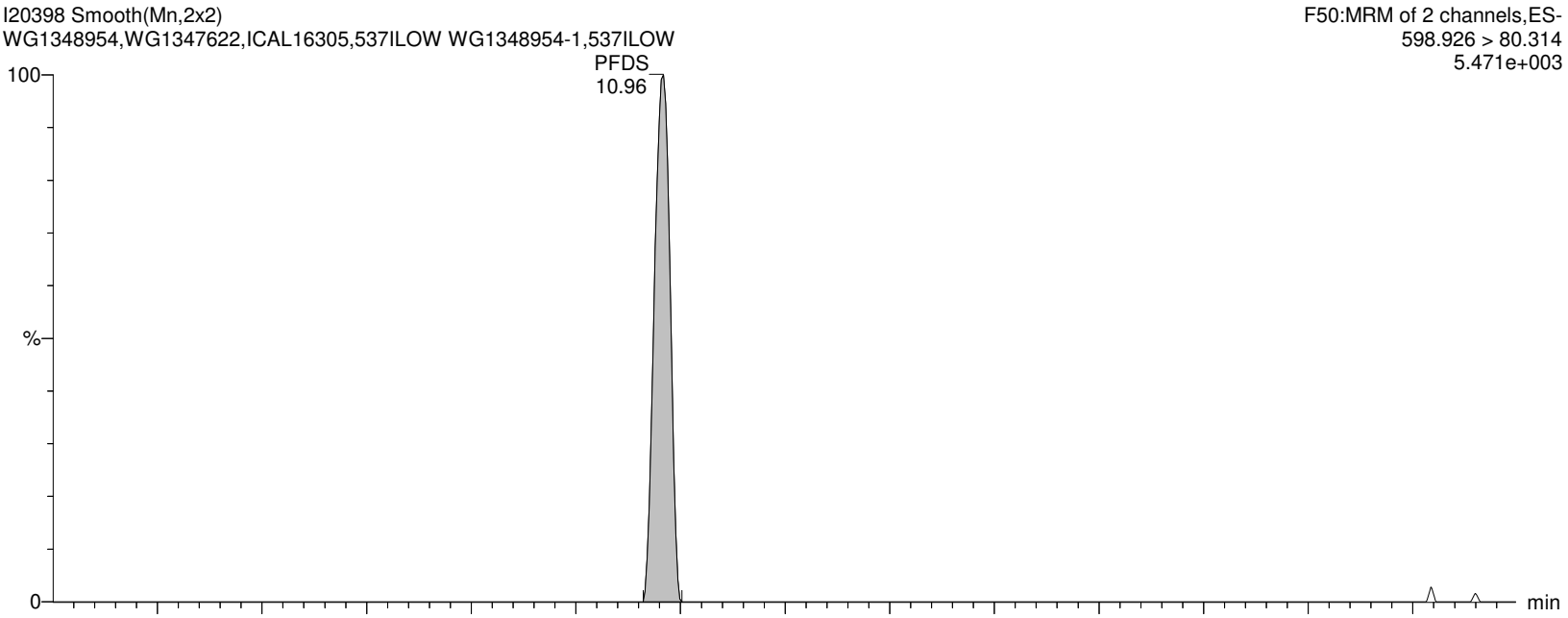

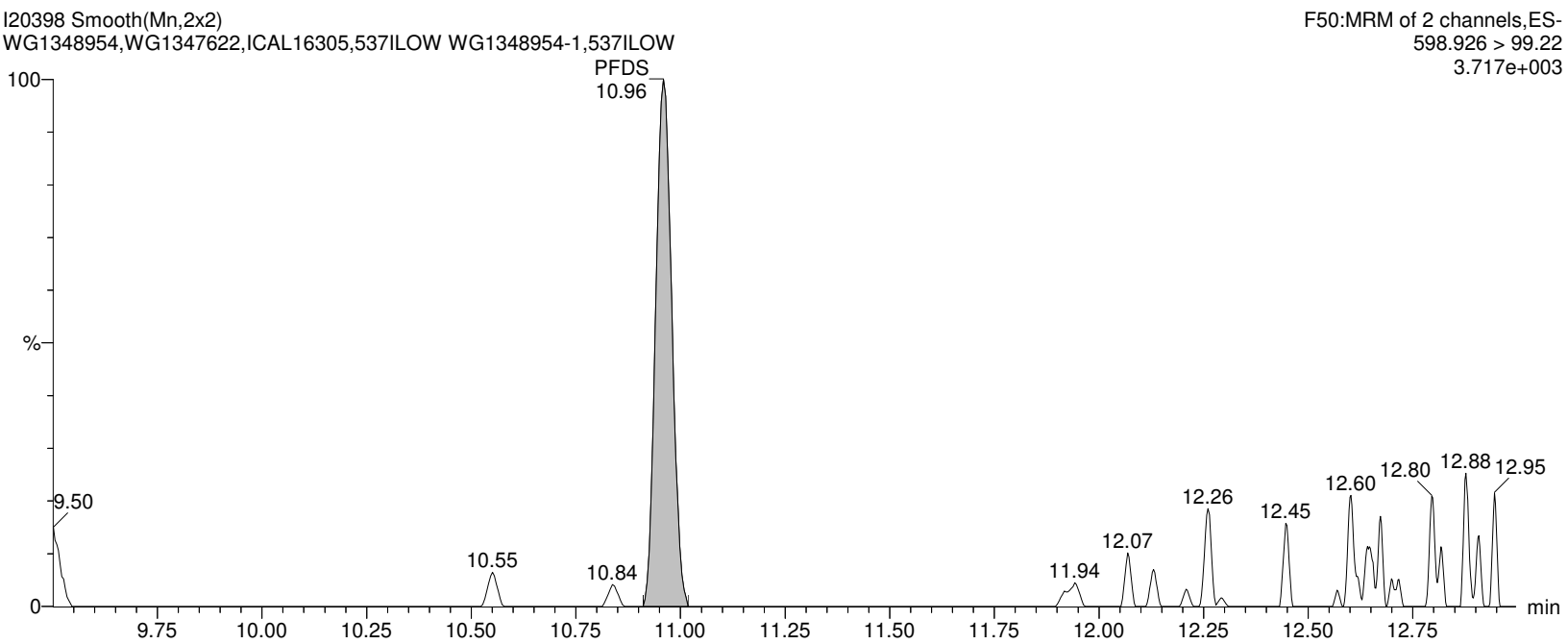

all concentration units in (ng/mL)

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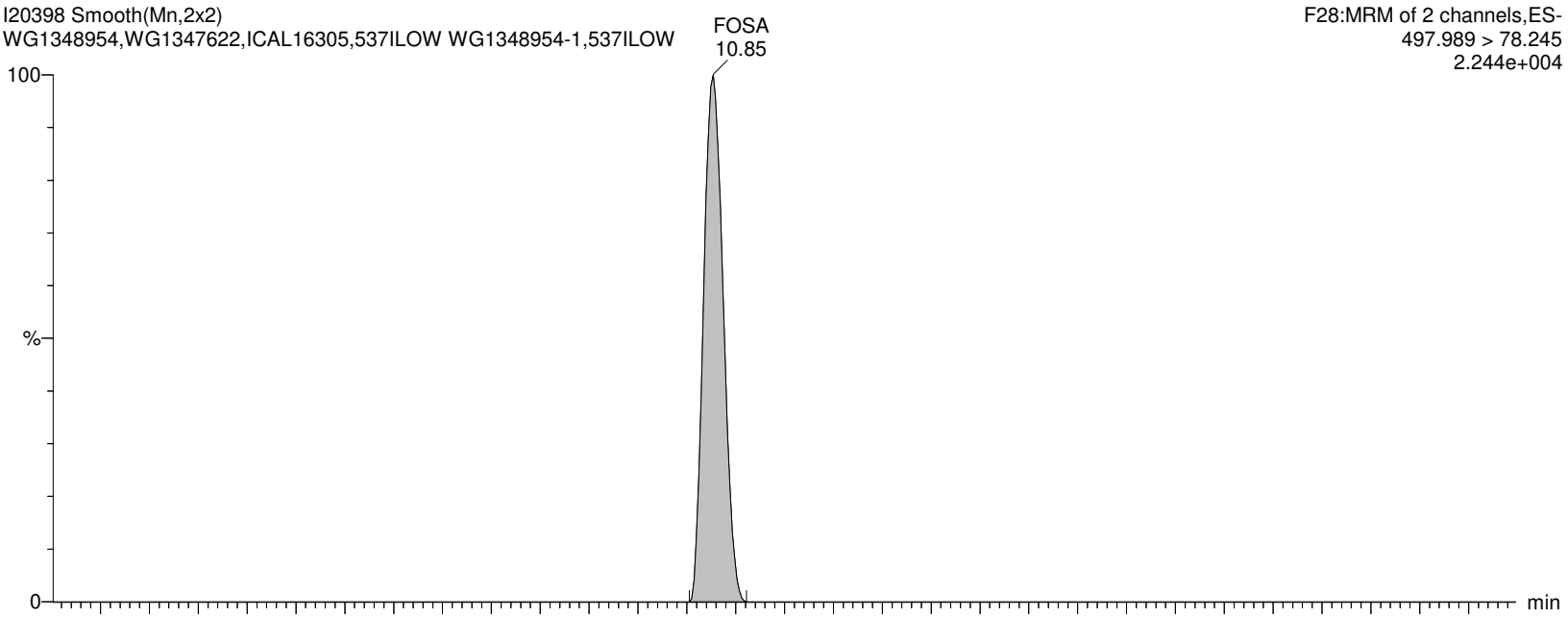

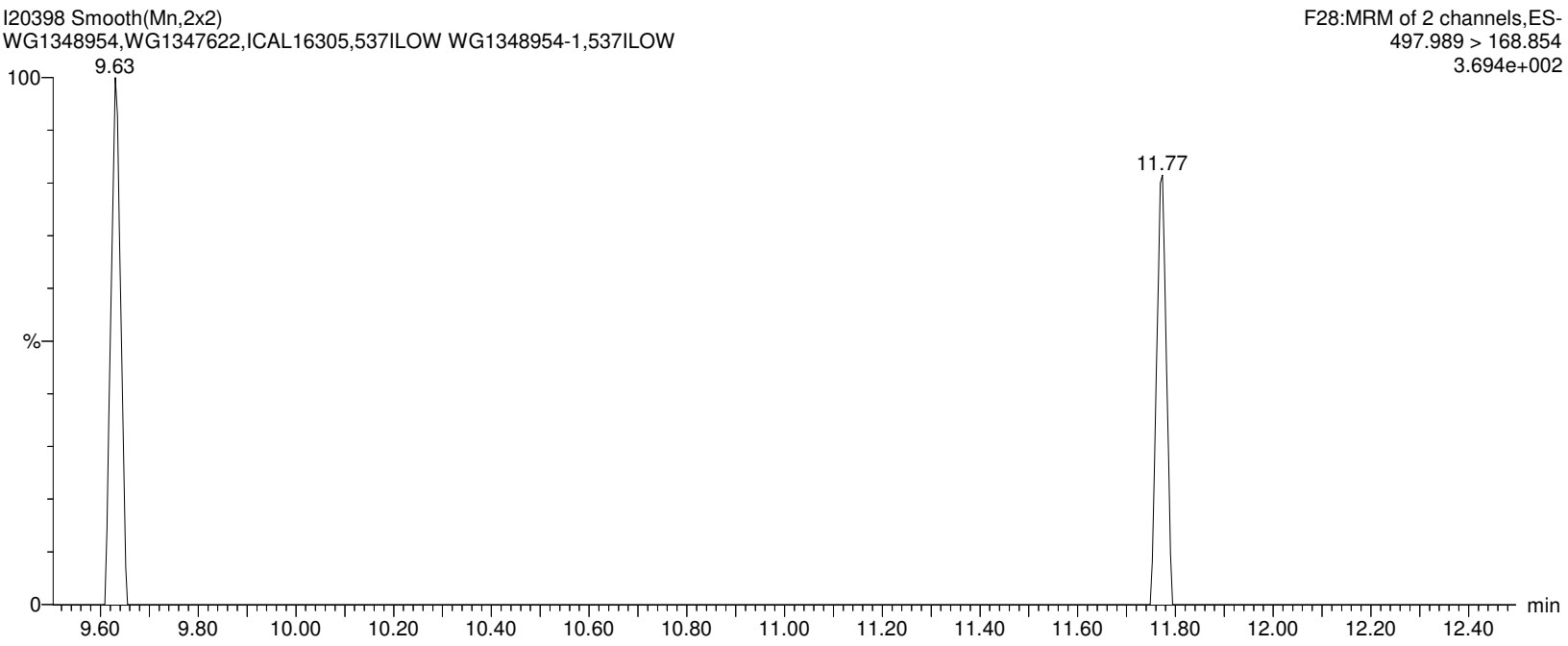

all concentration units in (ng/mL)

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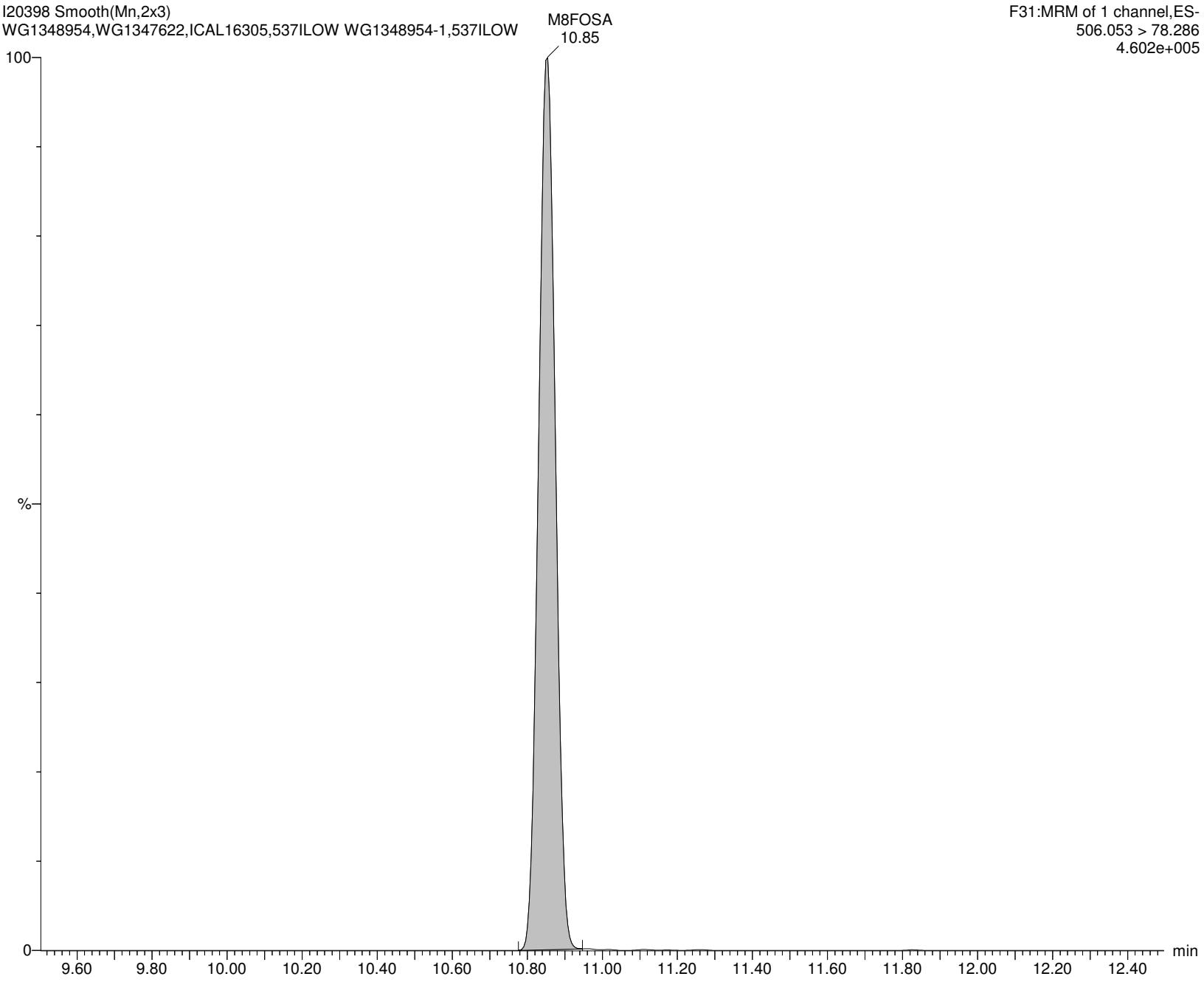

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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Vial: 1:A,2
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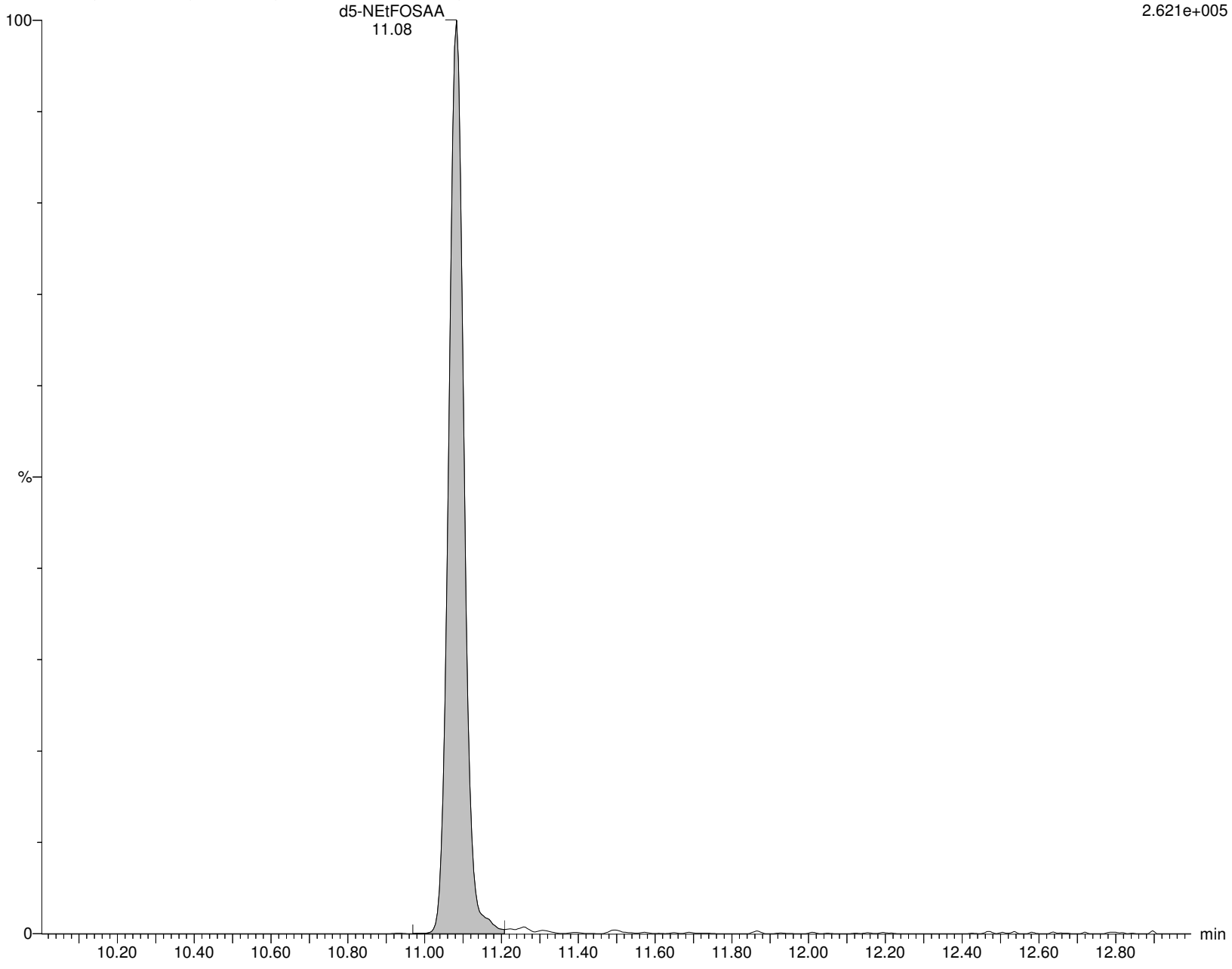

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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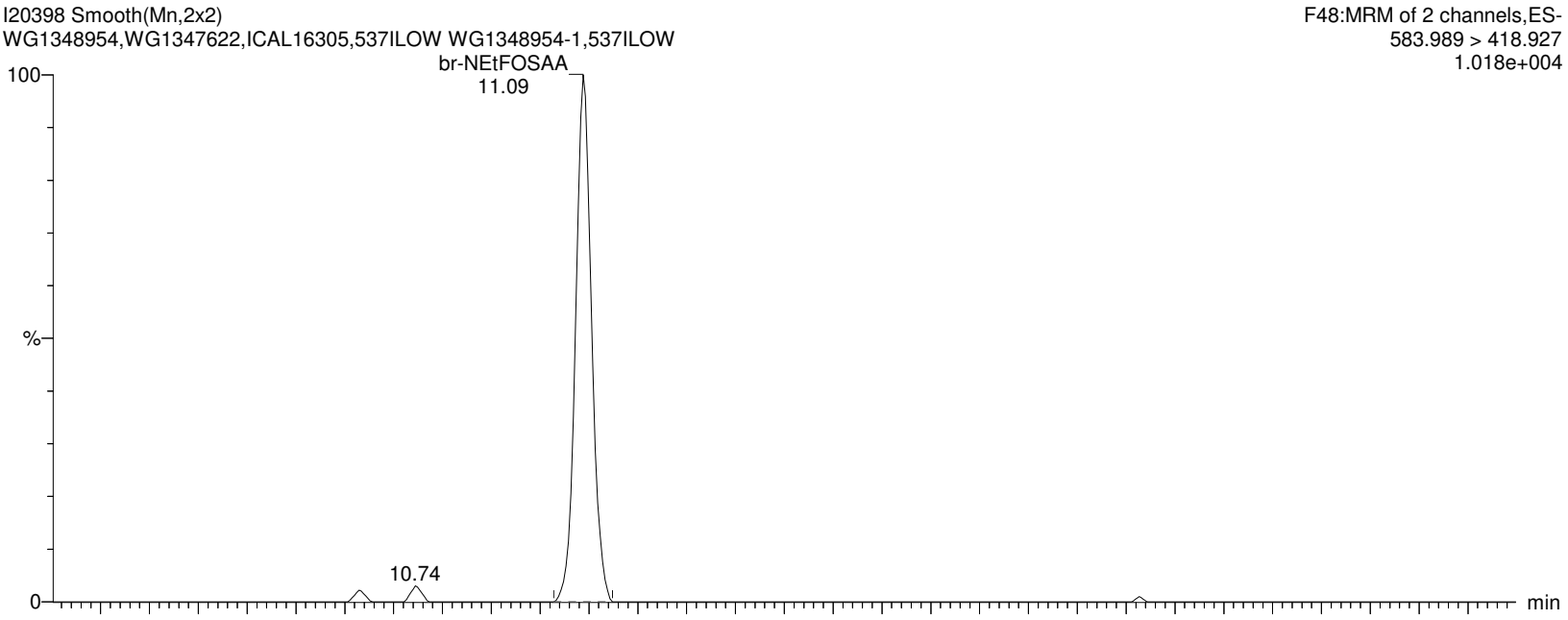

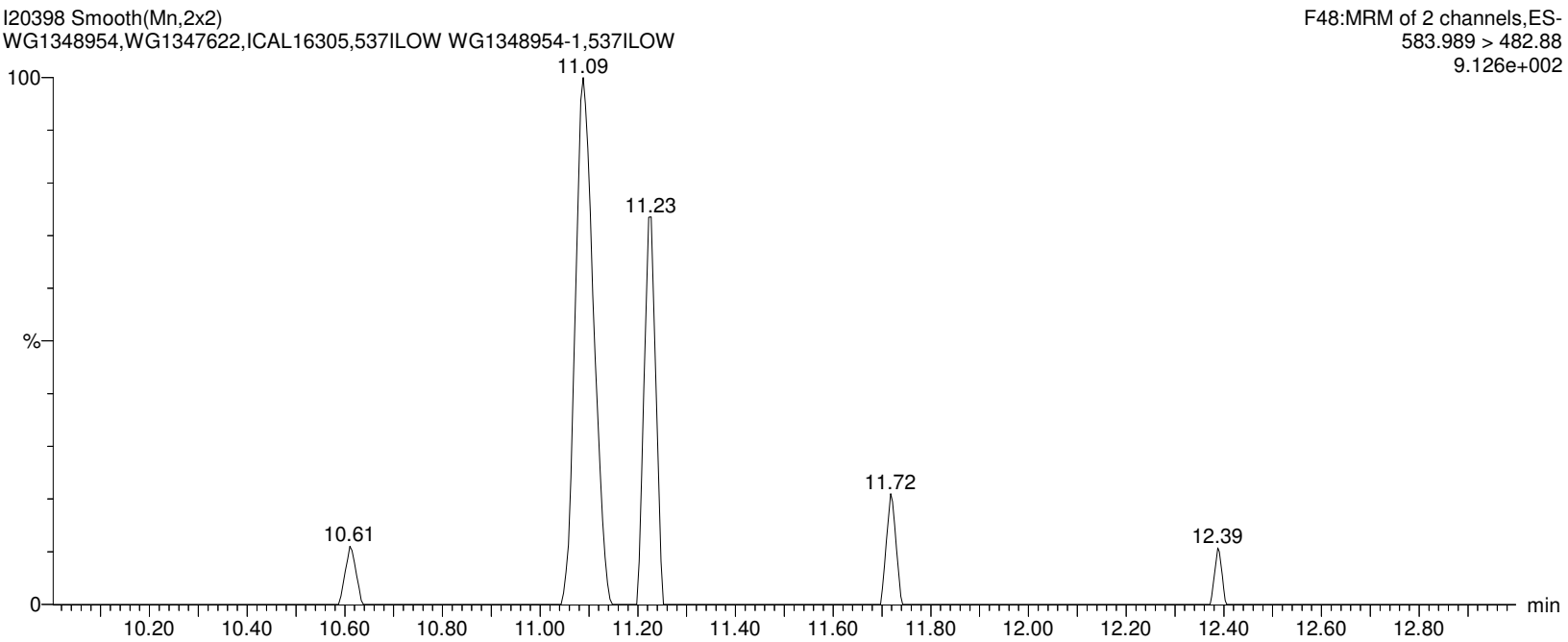

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
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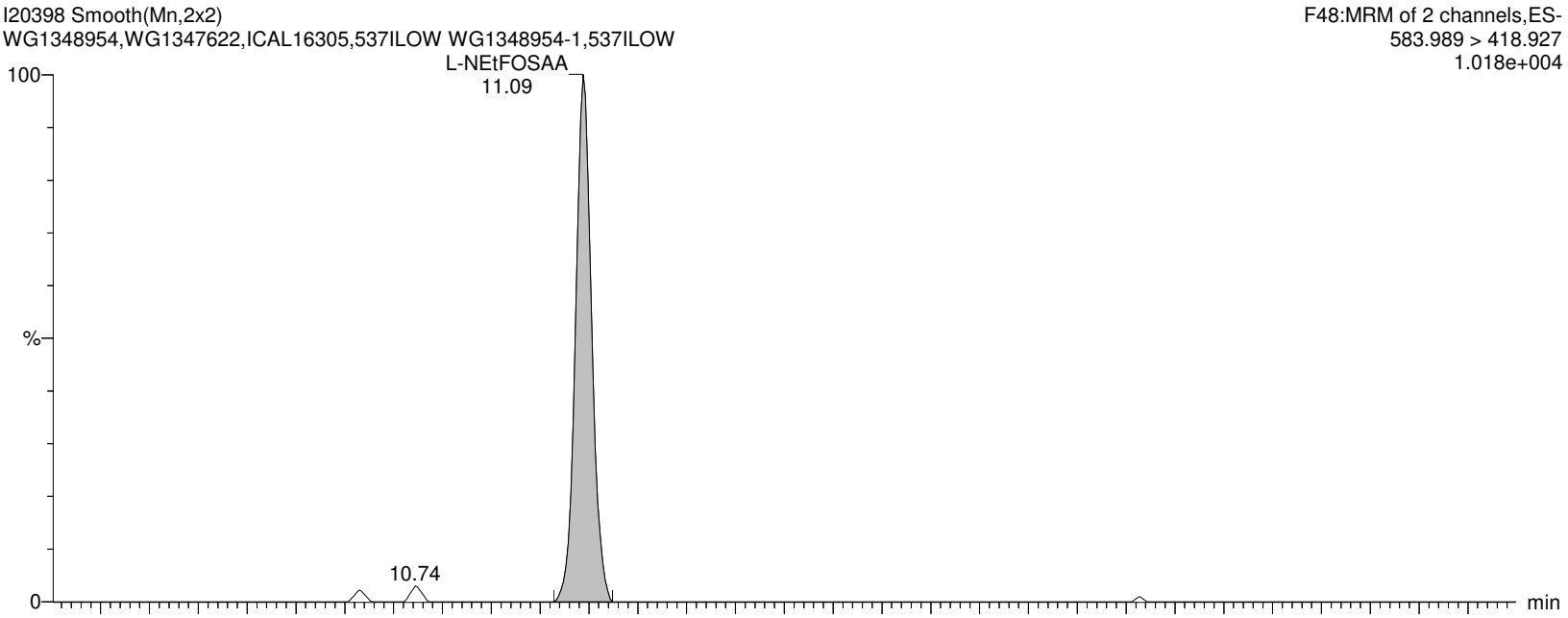

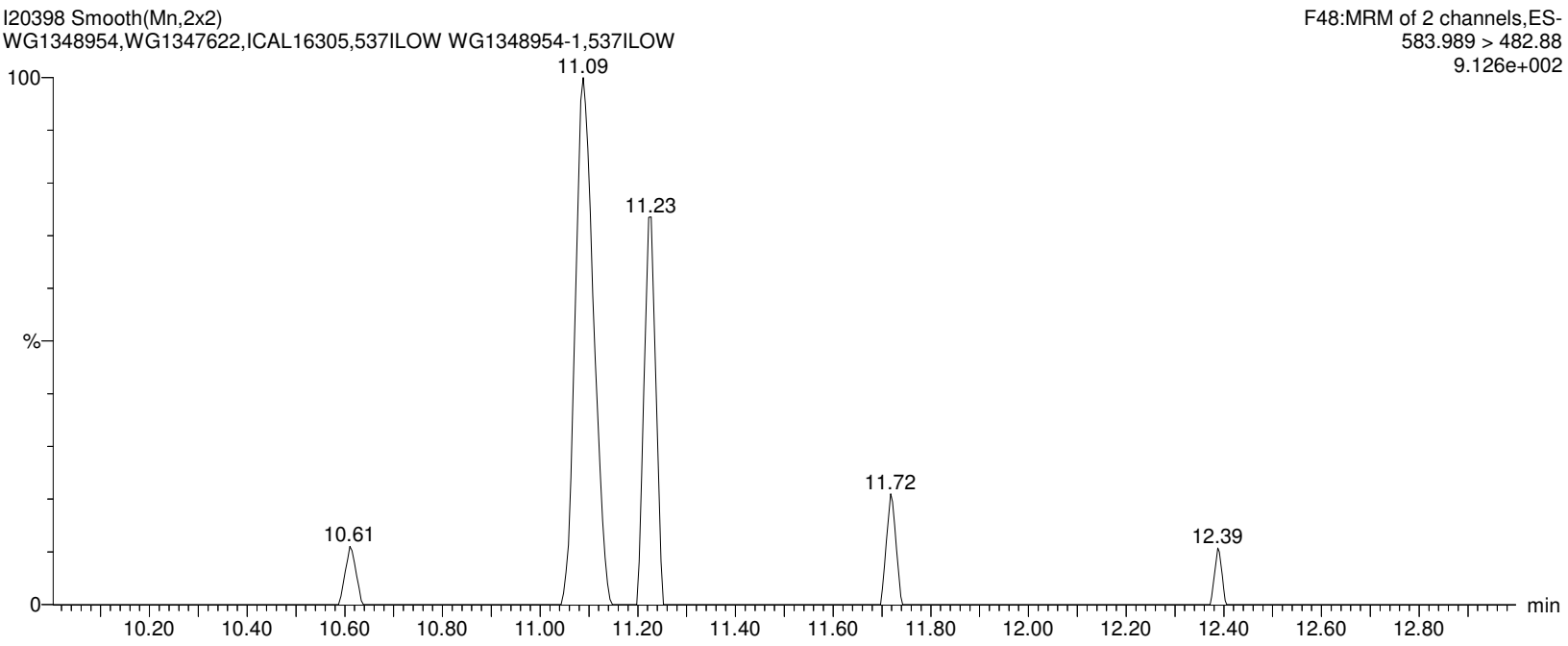

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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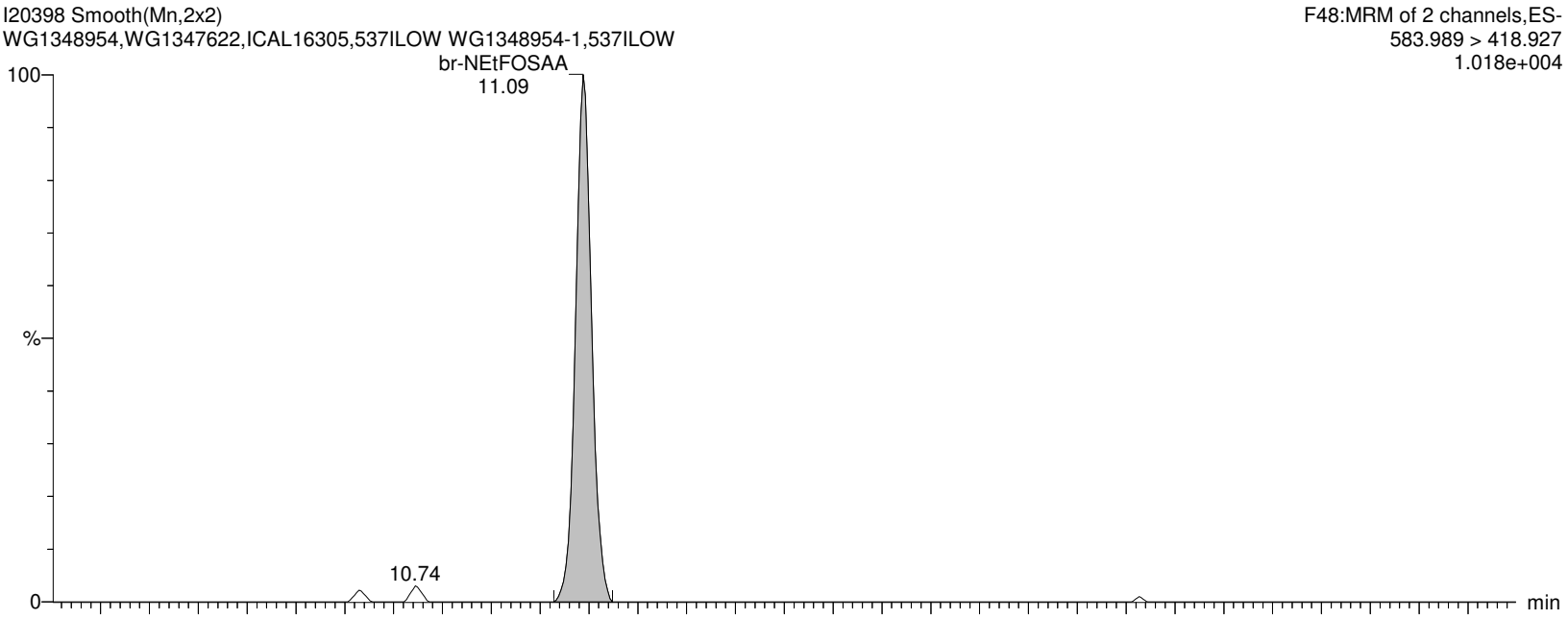

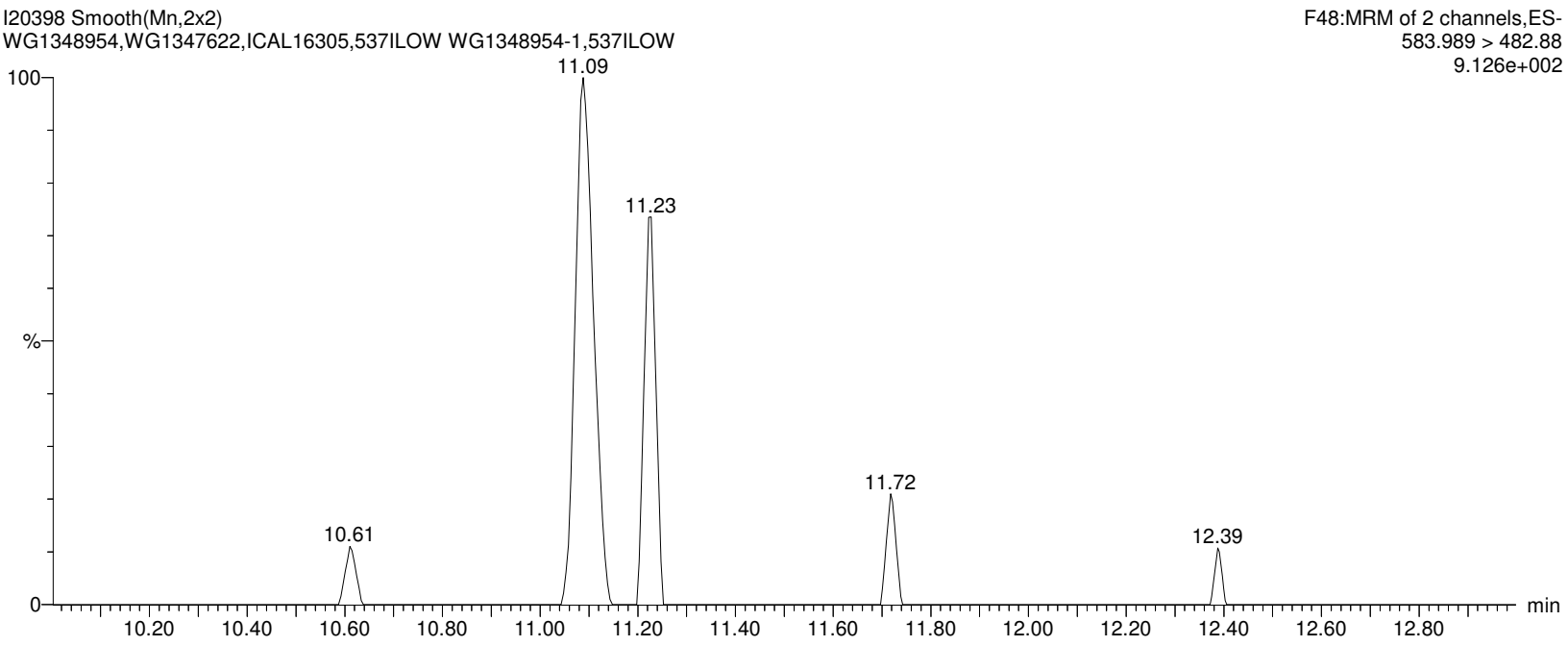

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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Date: 10-Mar-2020
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Vial: 1:A,2
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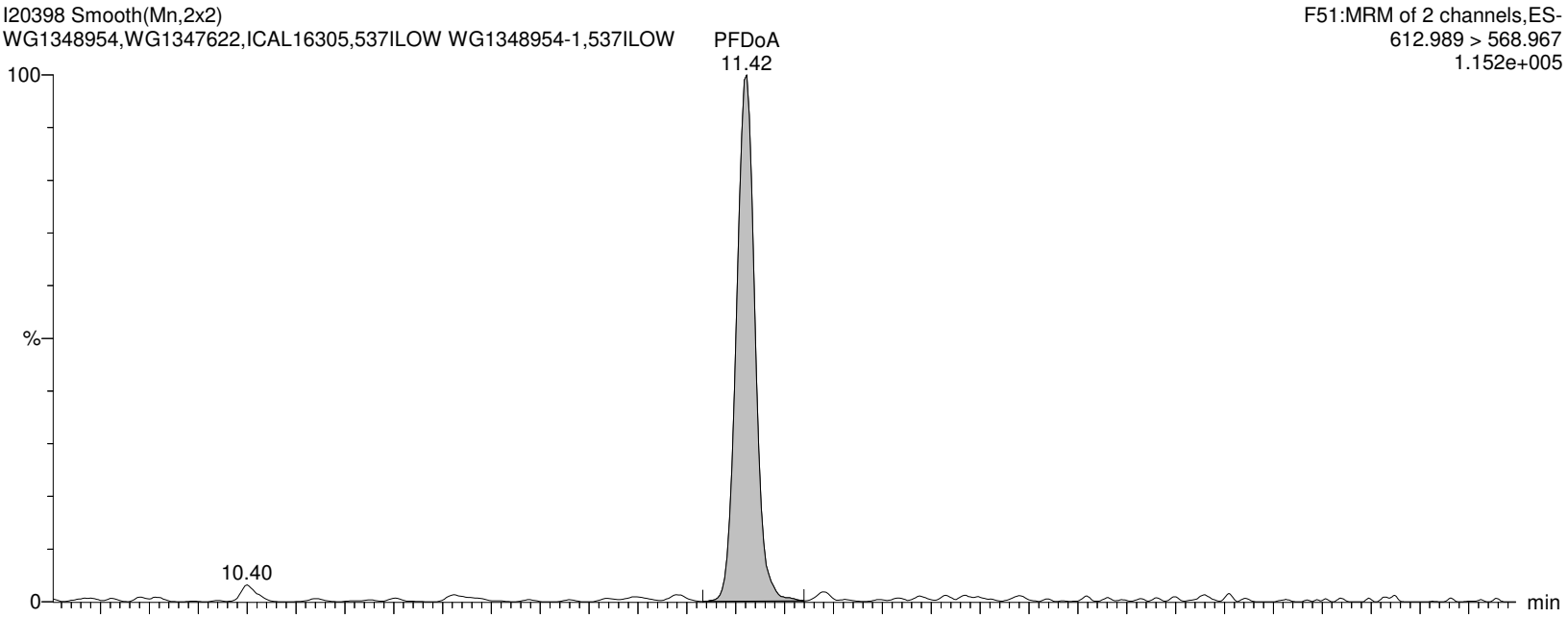

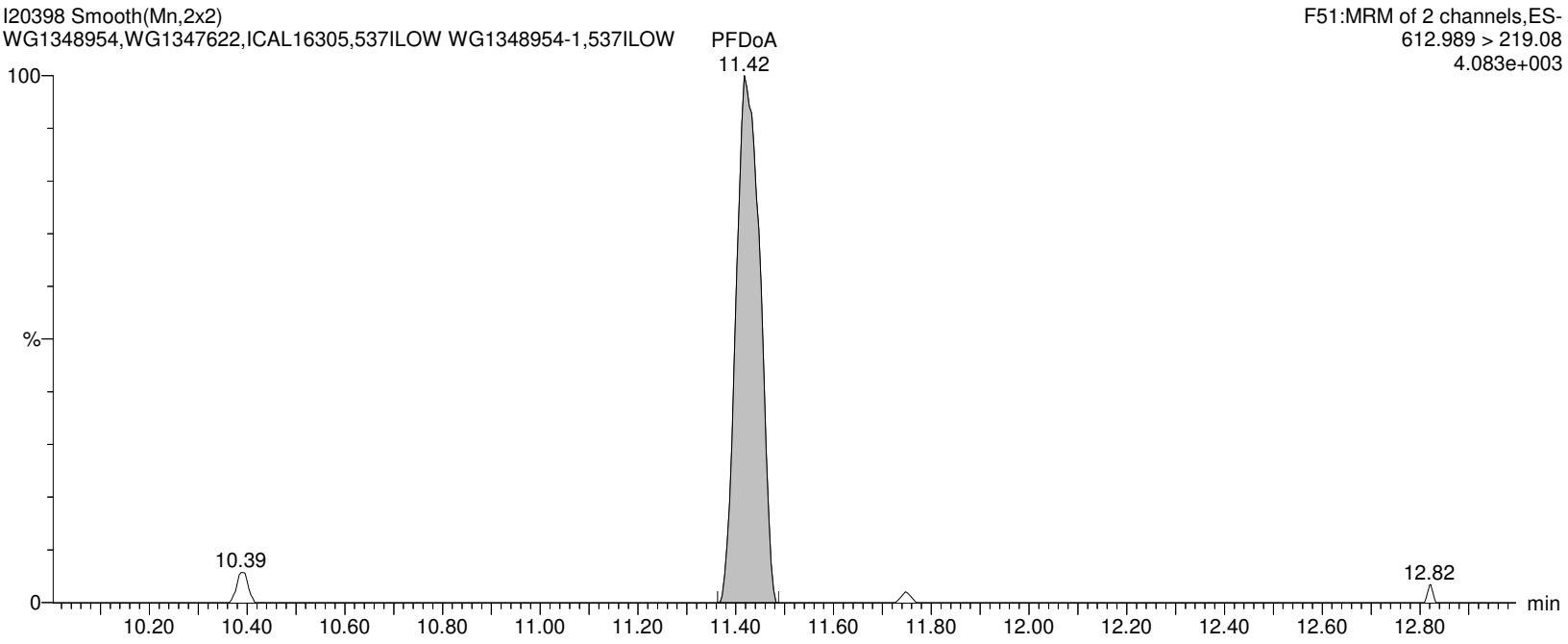

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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Date: 10-Mar-2020
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Vial: 1:A,2
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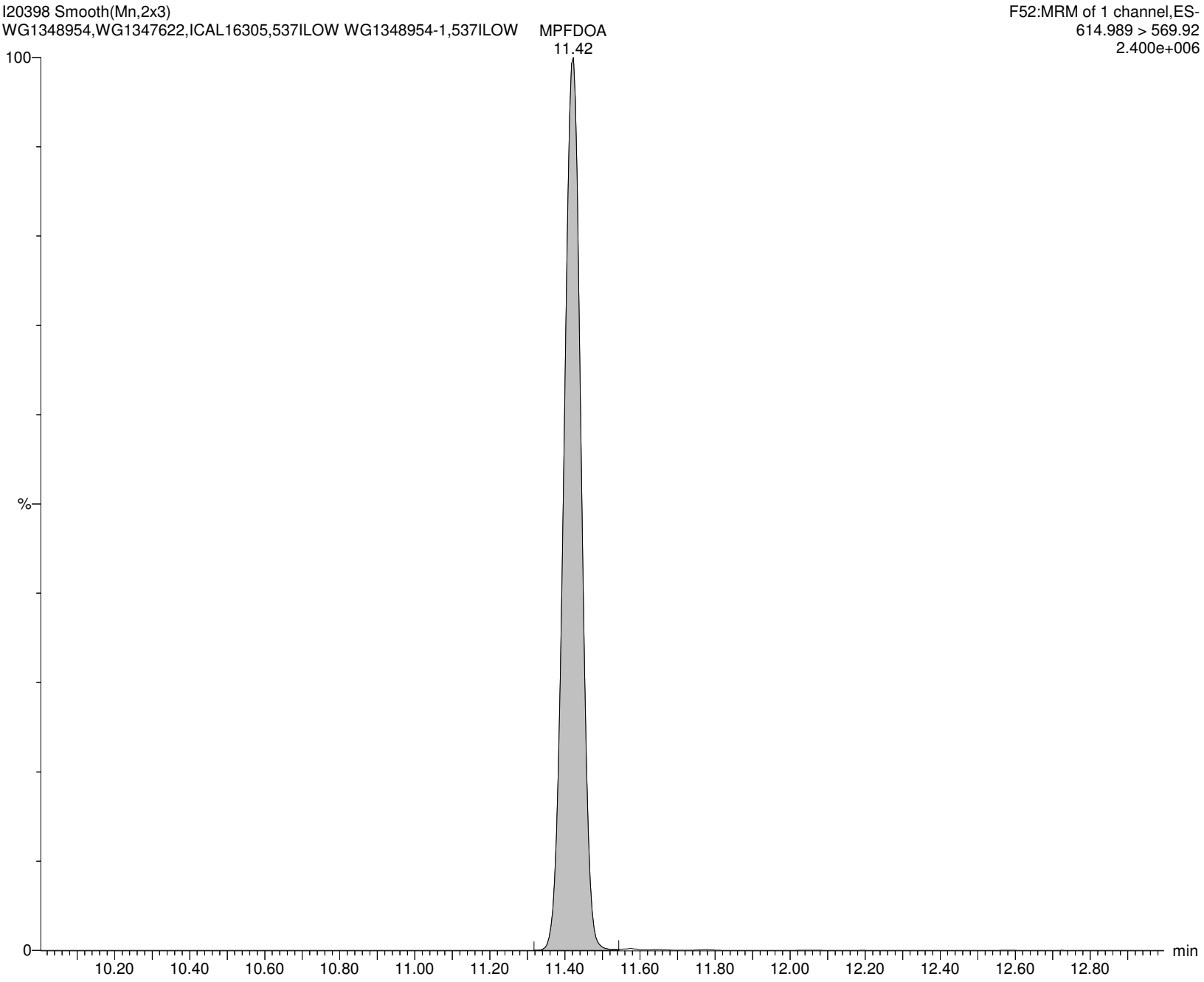

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Description: WG1348954,WG1347622,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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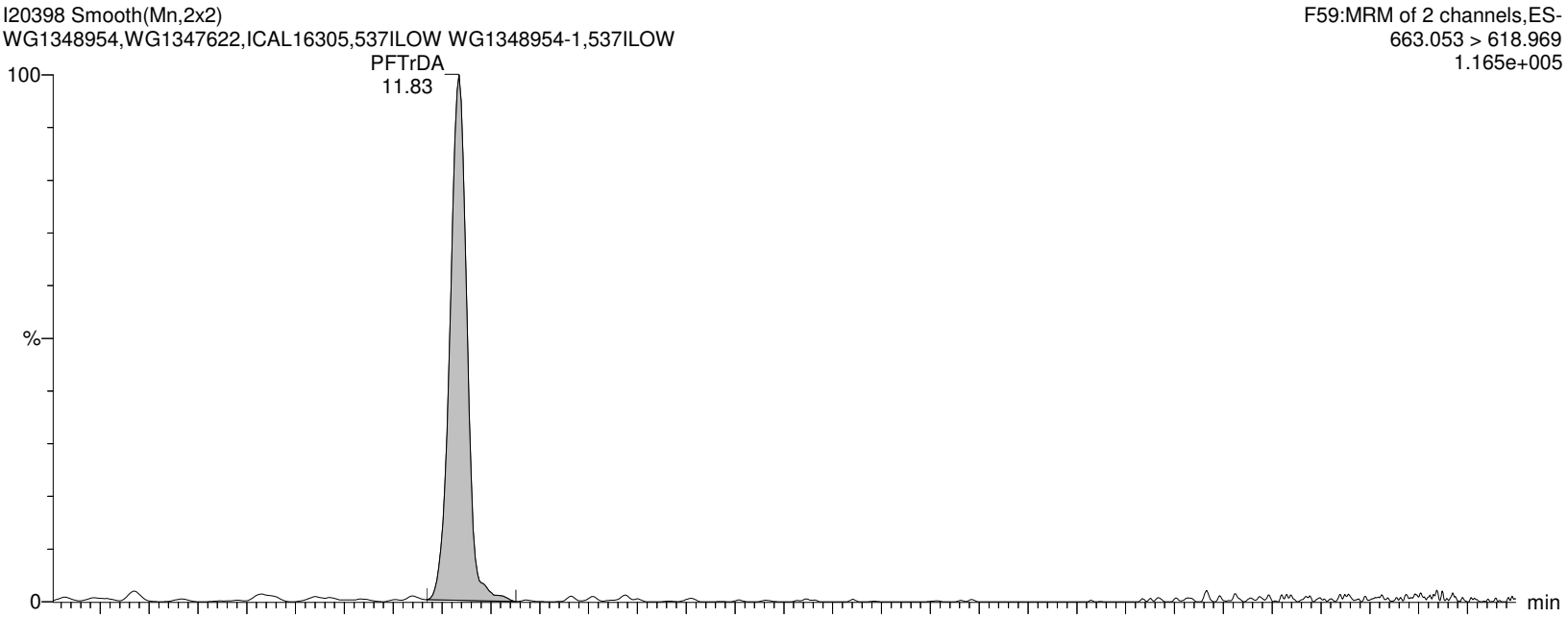

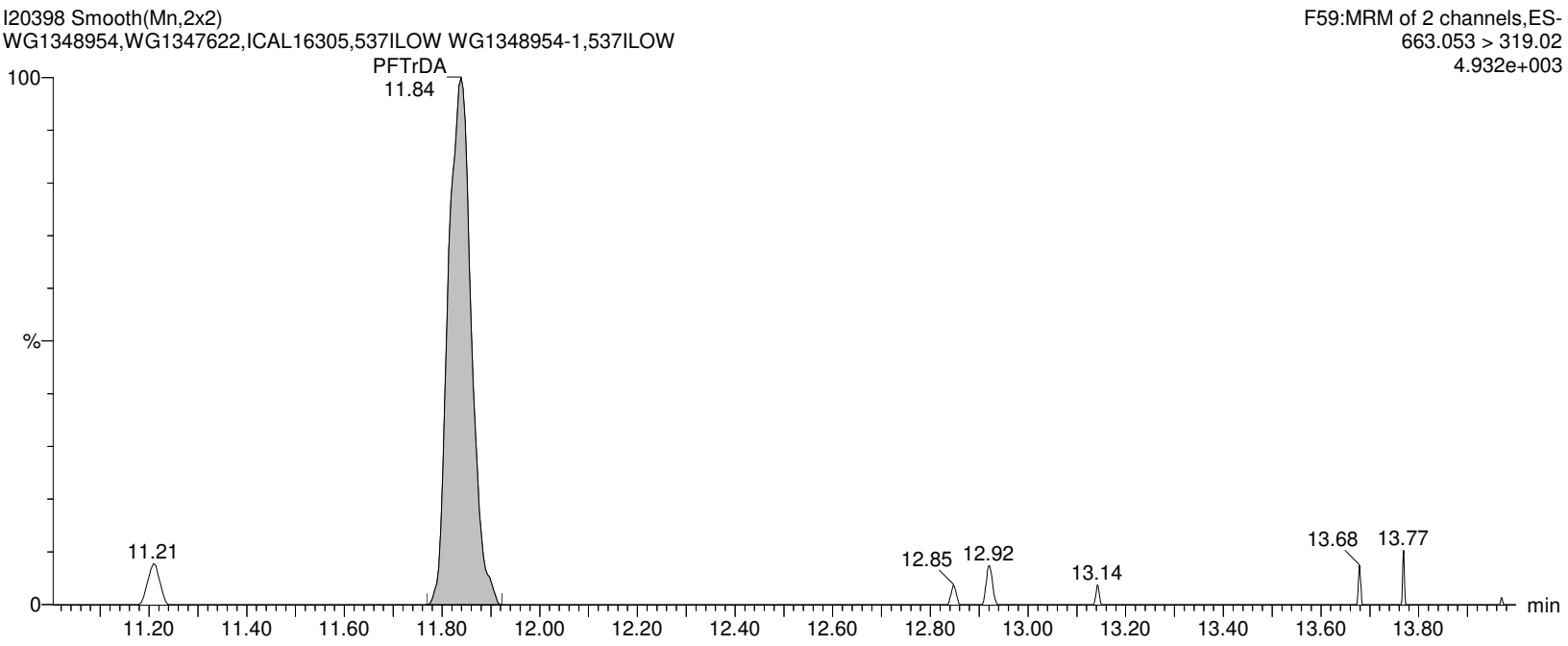

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
Last Altered: Wednesday, March 11, 2020 13:51:31 Eastern Daylight Time
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ID: WG1348954-1,537ILOW
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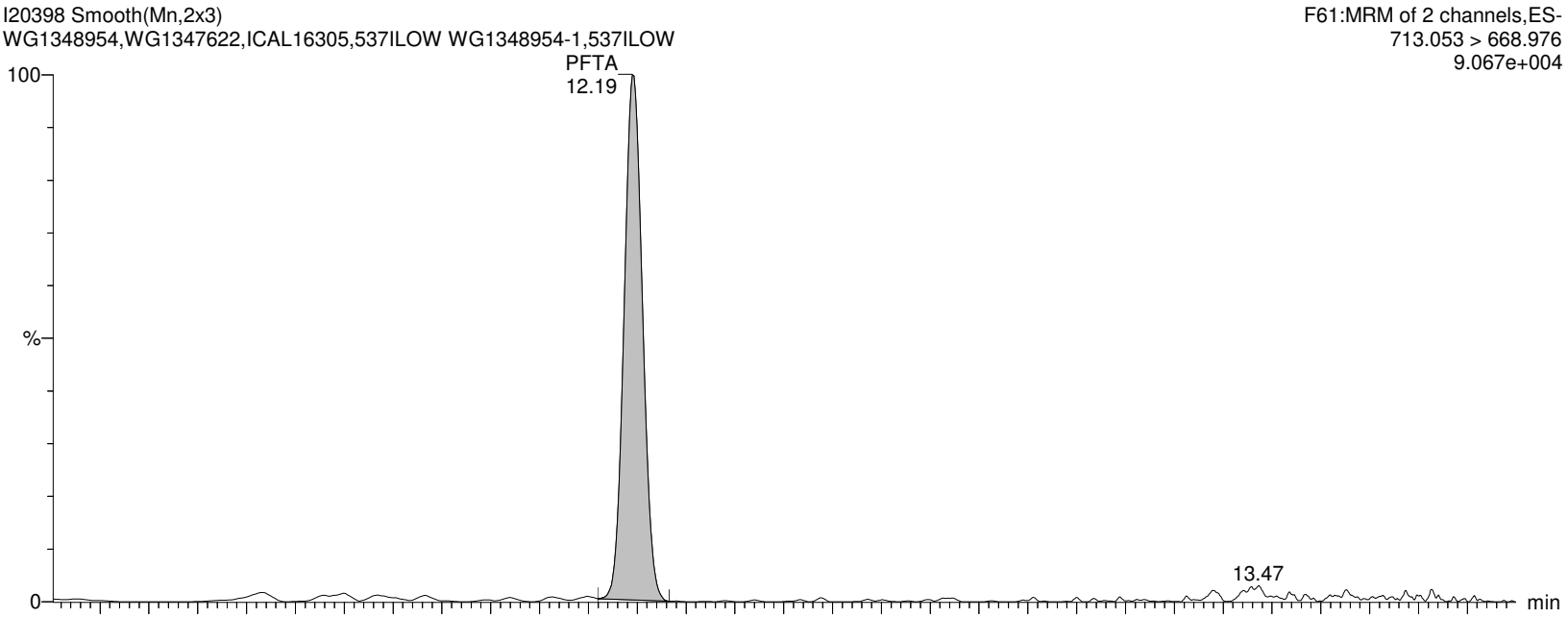

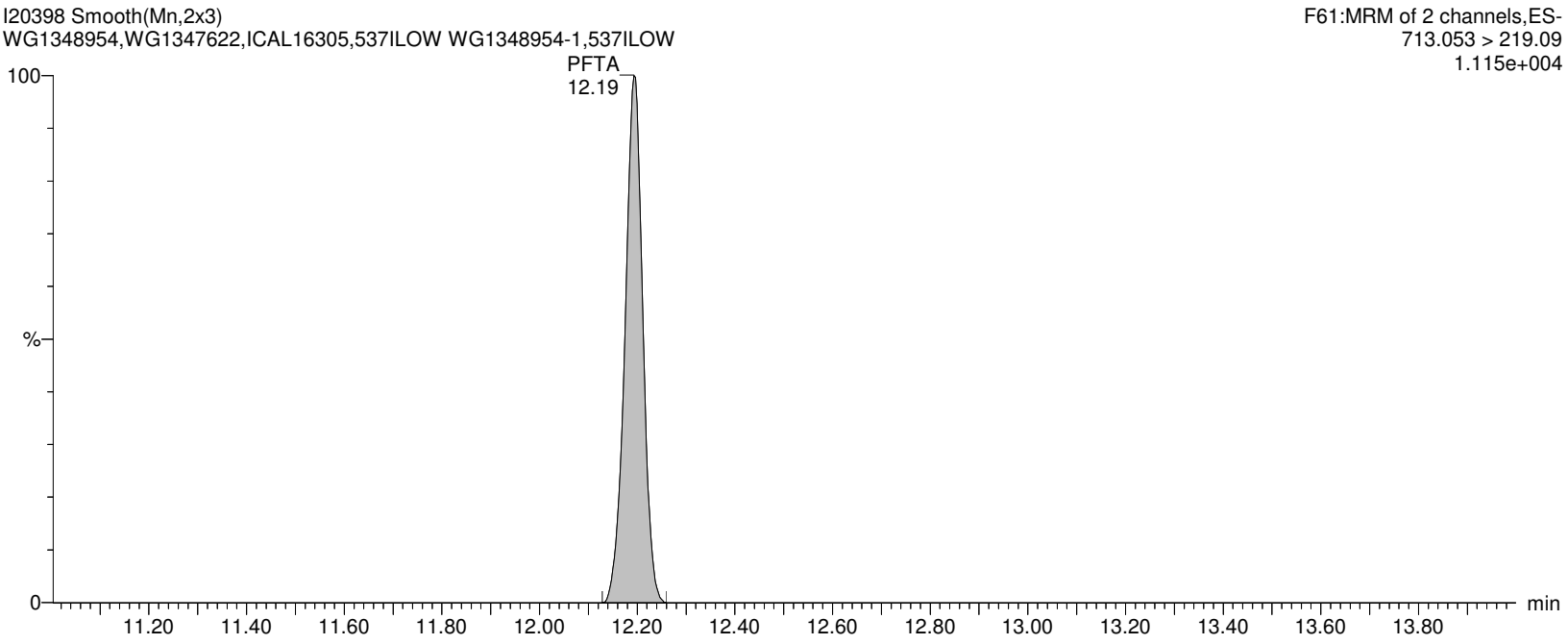

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\wg1348954-1.qld
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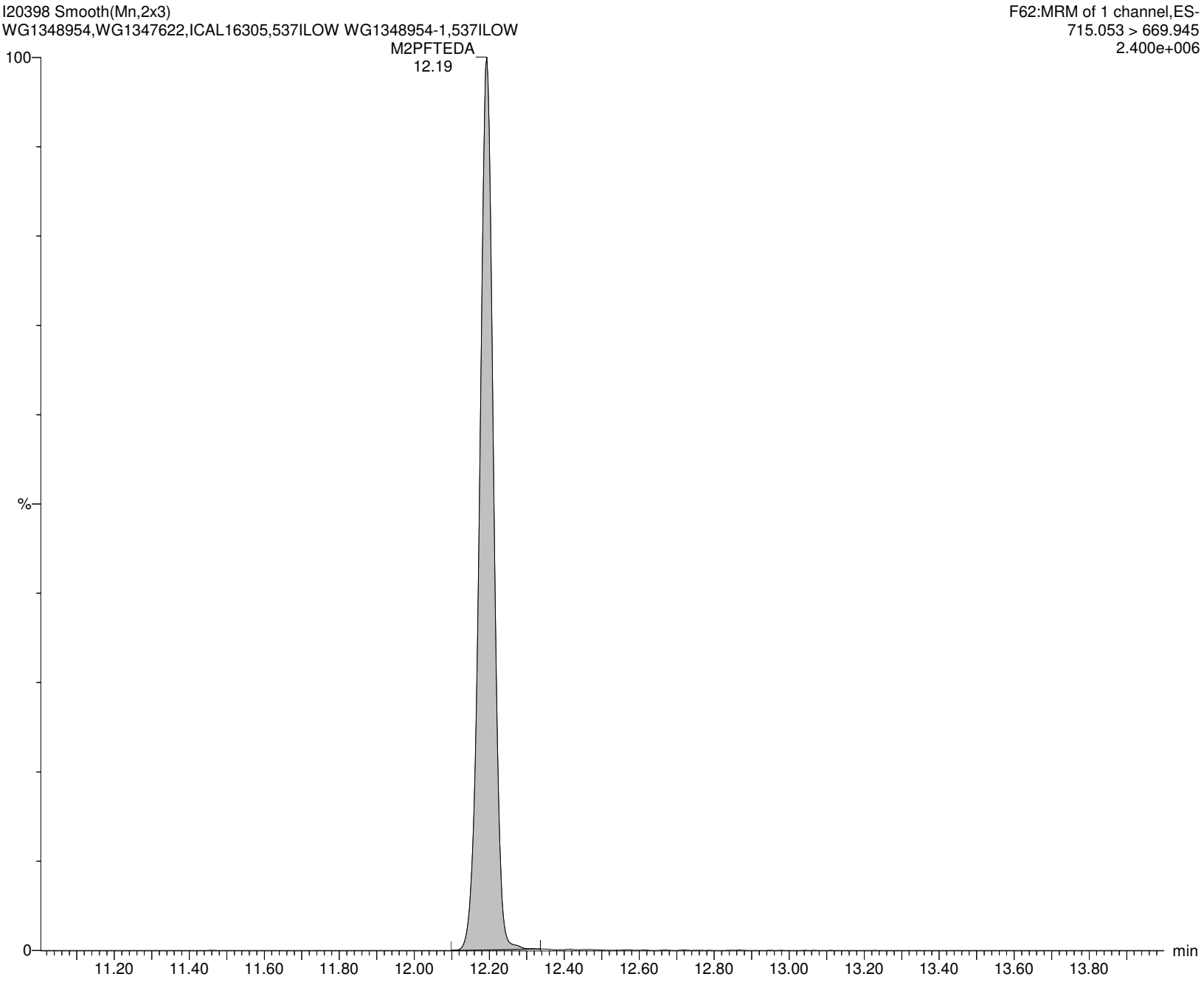

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, March 12, 2020 03:41:27 Eastern Daylight Time

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Name: I20434
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Time: 21:04:42
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.18	212.926 > 169.111	2309		0.463		na	92.6
2	M3PFBA	INT STD	2.18	215.926 > 172.122	50678		10.937		na	109.4
3	MPFBA	INT STD	2.18	216.926 > 172.137	59736		10.831		na	108.3
4	PFPeA	2706-90-3	5.08	262.926 > 219.002	4483	M4	0.515		na	102.9
5	M5PFPEA	INT STD	5.07	267.989 > 223.081	90177		11.528		na	115.3
6	PFBS	375-73-5	5.71	298.926 > 79.923	659		0.370	1.78	NO	83.7
7	M3PFBS	INT STD	5.71	301.989 > 80.254	12120		9.971		na	99.7
8	4:2FTS	757124-72-4	6.86	326.926 > 306.957	427		0.491	2.73	NO	105.0
9	M2-4:2FTS	INT STD	6.87	329.117 > 309.079	7856		9.955		na	99.5
10	PFHxA	307-24-4	6.95	312.989 > 269.028	5439		0.550	19.34	NO	109.9
11	M5PFHxA	INT STD	6.95	317.989 > 273.045	107497		10.624		na	106.2
12	PFPeS	2706-91-4	7.26	348.926 > 80.251	451		0.359	1.55	NO	76.5
13	PFHpA	375-85-9	8.18	362.926 > 319.014	6338		0.477	5.85	NO	95.3
14	M4PFHpA	INT STD	8.18	366.926 > 321.979	147390		10.935		na	109.4
15	br-PFHxS	355-46-4	8.05	398.926 > 80.295	55	M5	0.062	1.85	NO	73.3
16	L-PFHxS	355-46-4	8.33	398.926 > 80.295	297		0.316	1.15	NO	85.4
17	PFHxS	355-46-4		398.926 > 80.295	352		0.378		na	
18	M3PFHxS	INT STD	8.33	401.926 > 80.317	7508		10.702		na	107.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.09	412.989 > 368.9	6888		0.536	11.71	NO	107.2
21	PFOA	335-67-1		412.989 > 368.9	6888		0.536		na	
22	M8PFOA	INT STD	9.09	420.989 > 375.979	139972		10.822		na	108.2
23	M2PFOA	INT STD	9.09	415.032 > 369.968	132183		12.504		na	125.0
24	6:2FTS	27619-97-2	9.04	426.989 > 406.921	214		0.311		YES	65.4
25	M2-6:2FTS	INT STD	9.05	428.989 > 408.917	8482		10.998		na	110.0
26	PFHpS	375-92-8	9.17	448.926 > 80.257	321		0.532	1.05	YES	112.0
27	PFNA	375-95-1	9.84	462.989 > 418.931	5791	M4	0.479	5.62	NO	95.8
28	M9PFNA	INT STD	9.84	472.053 > 426.947	147584		11.597		na	116.0
29	br-PFOS	1763-23-1	9.71	498.989 > 80.294	99	M5	0.083	8.26	NO	83.1
30	L-PFOS	1763-23-1	9.90	498.989 > 80.294	341		0.380	2.75	YES	104.1
31	PFOS	1763-23-1		498.989 > 80.294	440		0.463		na	
32	M4PFOS	INT STD	9.89	503.032 > 80.306	8684		12.434		na	124.3
33	M8PFOS	INT STD	9.90	507.053 > 80.294	9147		10.266		na	102.7
34	PFDA	335-76-2	10.49	513.053 > 468.906	5768	M4	0.471	6.57	NO	94.2
35	M2PFDA	INT STD	10.49	515.053 > 469.934	123646		14.004		na	140.0
36	M6PFDA	INT STD	10.49	519.053 > 473.931	142740		11.170		na	111.7
37	8:2FTS	39108-34-4	10.47	526.926 > 506.818	203		0.342		na	71.2
38	M2-8:2FTS	INT STD	10.48	529.053 > 508.945	5466		12.082		na	120.8
39	PFNS	68259-12-1	10.51	548.989 > 80.249	487		0.573	1.55	YES	119.4

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User: LCMS02:RS
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.88	573.096 > 418.987	14010		9.626		na	96.3
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.89	570.053 > 418.917	774		0.593	4.60	YES	118.6
43	NMeFOSAA	2355-31-9		570.053 > 418.917	774		0.593		na	
44	PFUnA	2058-94-8	11.04	562.989 > 518.903	6582		0.520	9.34	NO	104.1
45	M7-PFUDA	INT STD	11.04	570.053 > 524.923	132283		11.668		na	116.7
46	PFDS	335-77-3	11.05	598.926 > 80.314	242		0.398	0.95	NO	82.4
47	FOSA	754-91-6	10.95	497.989 > 78.245	1300		0.480		YES	95.9
48	M8FOSA	INT STD	10.94	506.053 > 78.286	25498		8.439		na	84.4
49	d5-NEtFOSAA	INT STD	11.18	589.117 > 418.929	11744		9.135		na	91.3
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.19	583.989 > 418.927	341		0.308	1.96	NO	61.6
52	NEtFOSAA	2991-50-6		583.989 > 418.927	341		0.308		na	
53	PFDoA	307-55-1	11.52	612.989 > 568.967	5359		0.484	15.76	NO	96.8
54	MPFDOA	INT STD	11.52	614.989 > 569.92	130663		10.273		na	102.7
55	PFTrDA	72629-94-8	11.93	663.053 > 618.969	5237	M4	0.588	13.91	NO	117.6
56	PFTA	376-06-7	12.30	713.053 > 668.976	4050		0.501	9.17	NO	100.2
57	M2PFTEDA	INT STD	12.30	715.053 > 669.945	100949		9.993		na	99.9
58	M3HFPO-DA	INT STD	7.37	331.989 > 286.995	4250		74.998		na	37.5
59	HFPO-DA	13252-13-6	7.38	284.819 > 169.094	256		7.251	2.08	YES	72.5
60	ADONA	958445-44-8	8.35	376.926 > 251.005	8245		0.448		na	94.7
61	PFHxDA		12.75	813.053 > 769.005	3787		0.669		na	133.7
62	PFODA		12.98	912.989 > 869.032	2646		0.638		na	127.5
63	M2PFHxDA		12.76	815.372 > 770.158	15407		7.165		na	71.6
64	PFDoS		11.93	698.649 > 79.853	305		0.491	2.38	YES	98.3
65	10:2FTS		11.54	626.862 > 606.896	305		0.534		na	110.8
66	9CL-PF3ONS		10.25	530.862 > 350.843	2640		0.439		na	94.2
67	11CL-PFOUdS		11.32	630.862 > 450.854	2255		0.445		na	94.5

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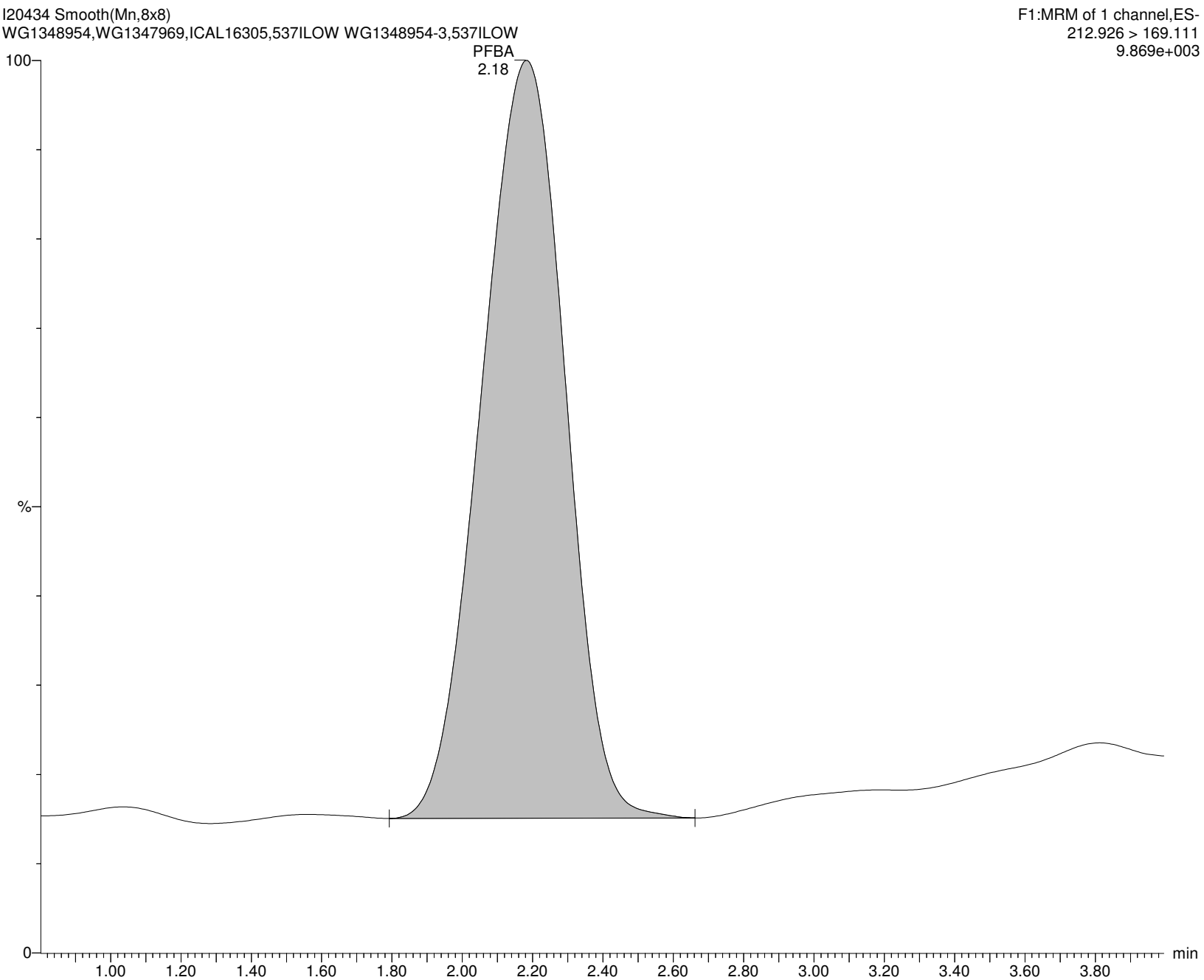

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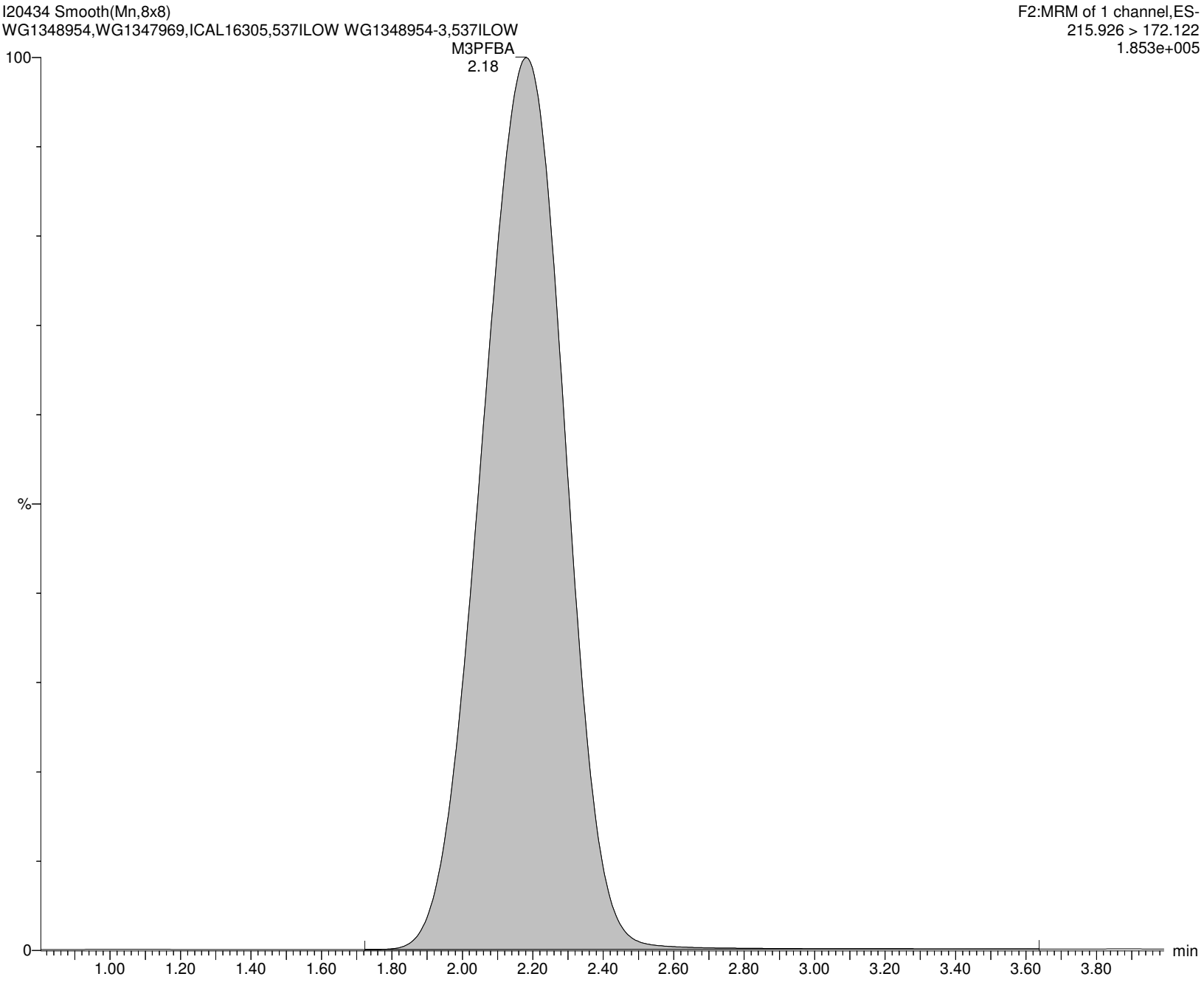

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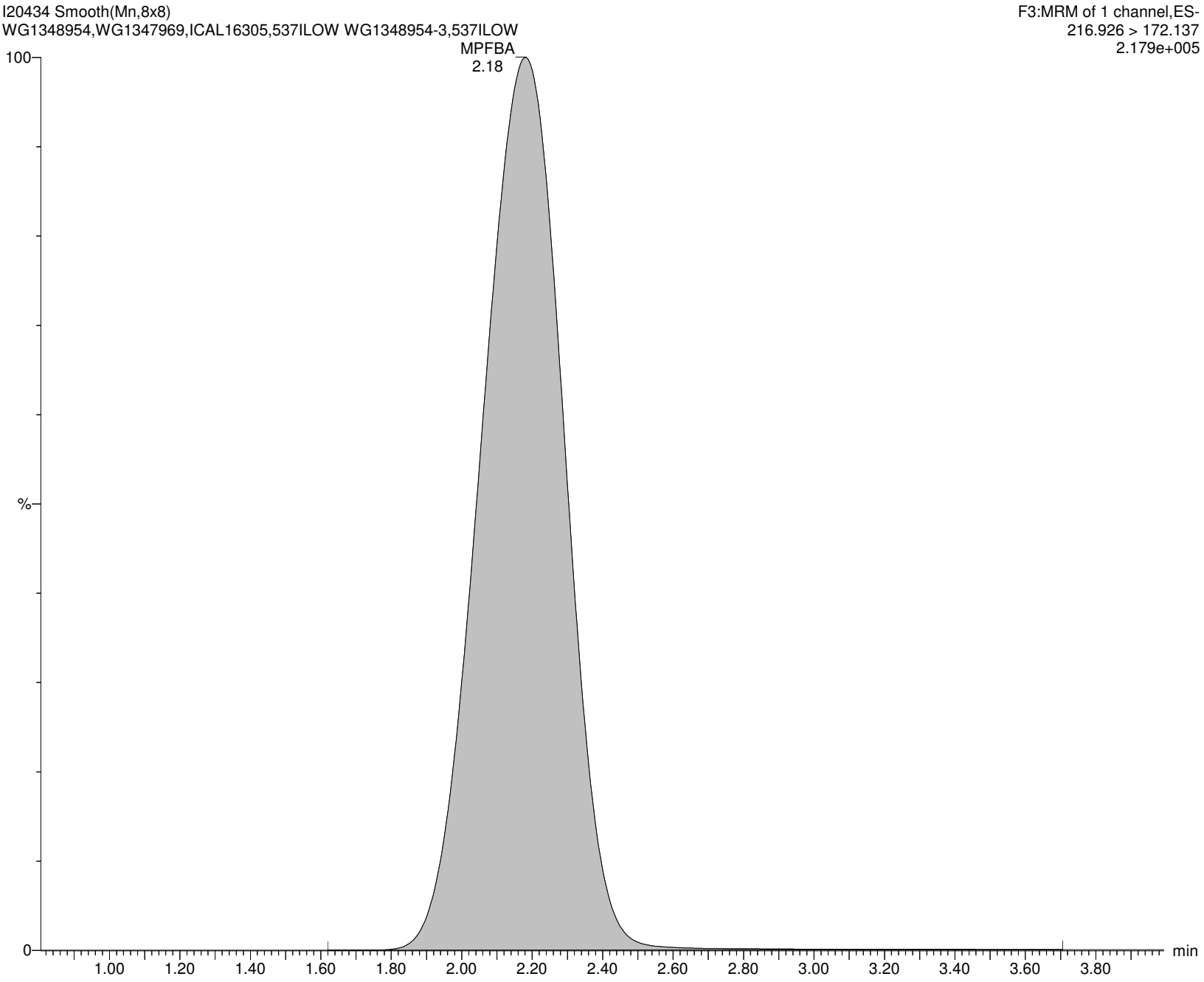

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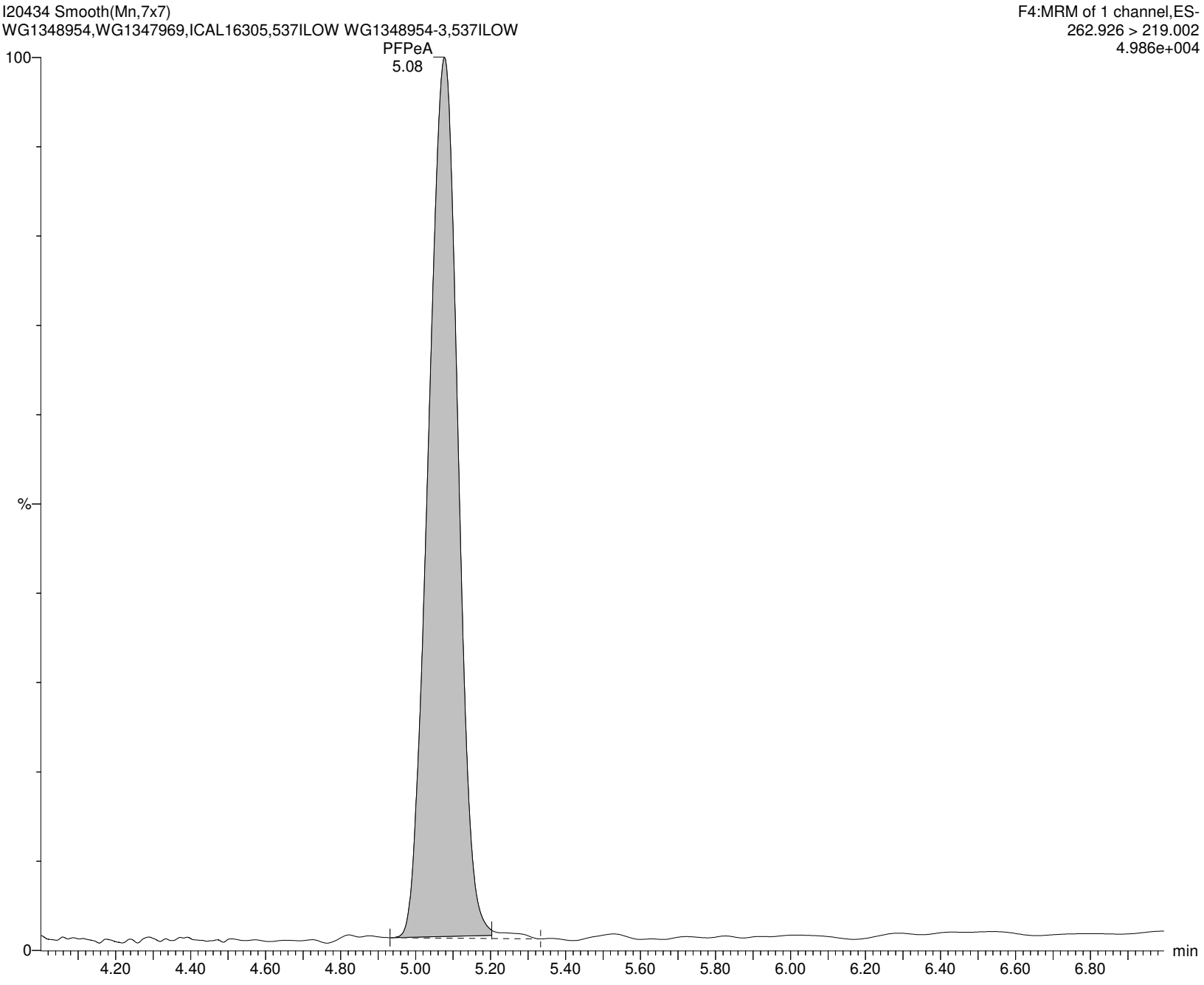

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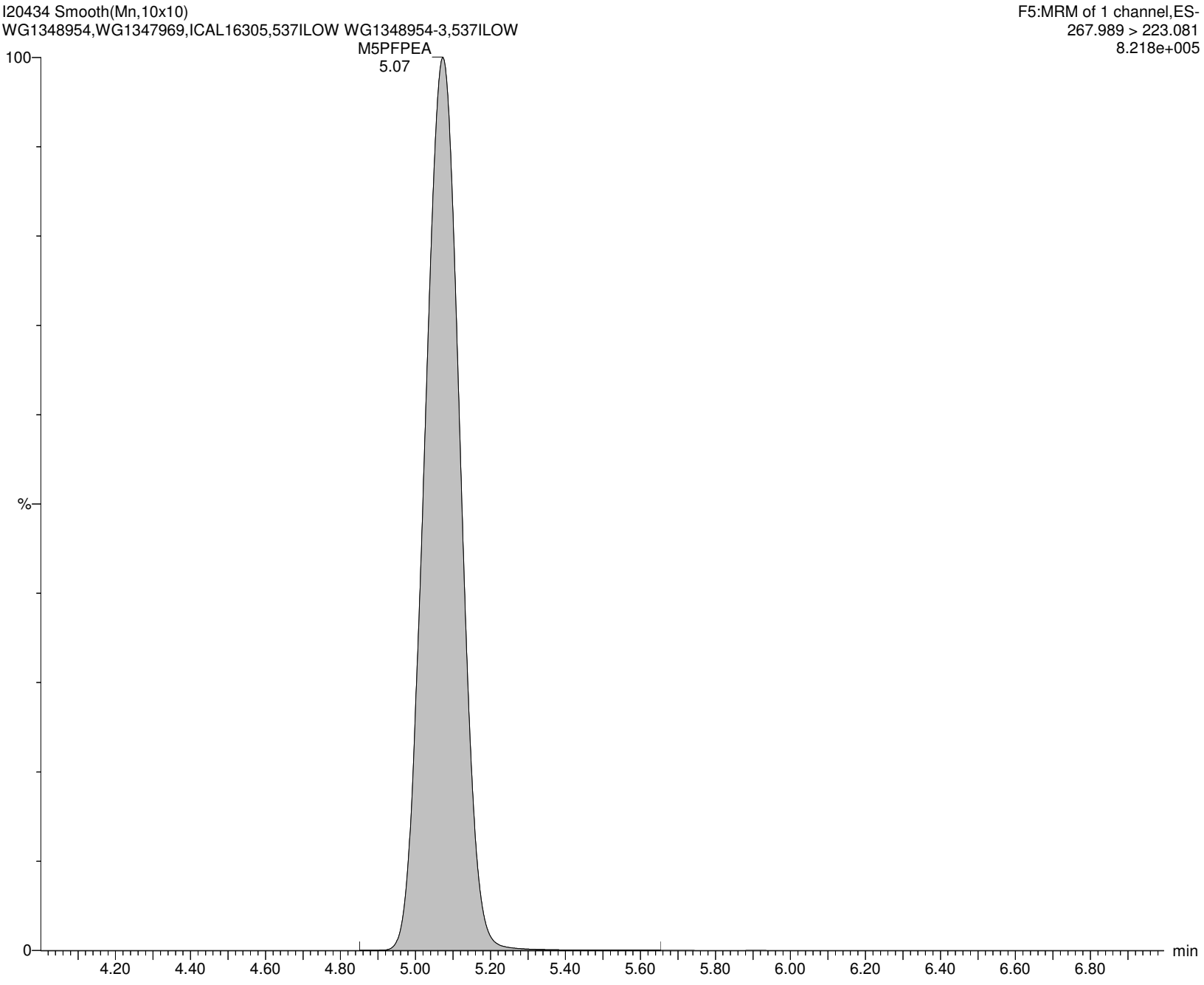

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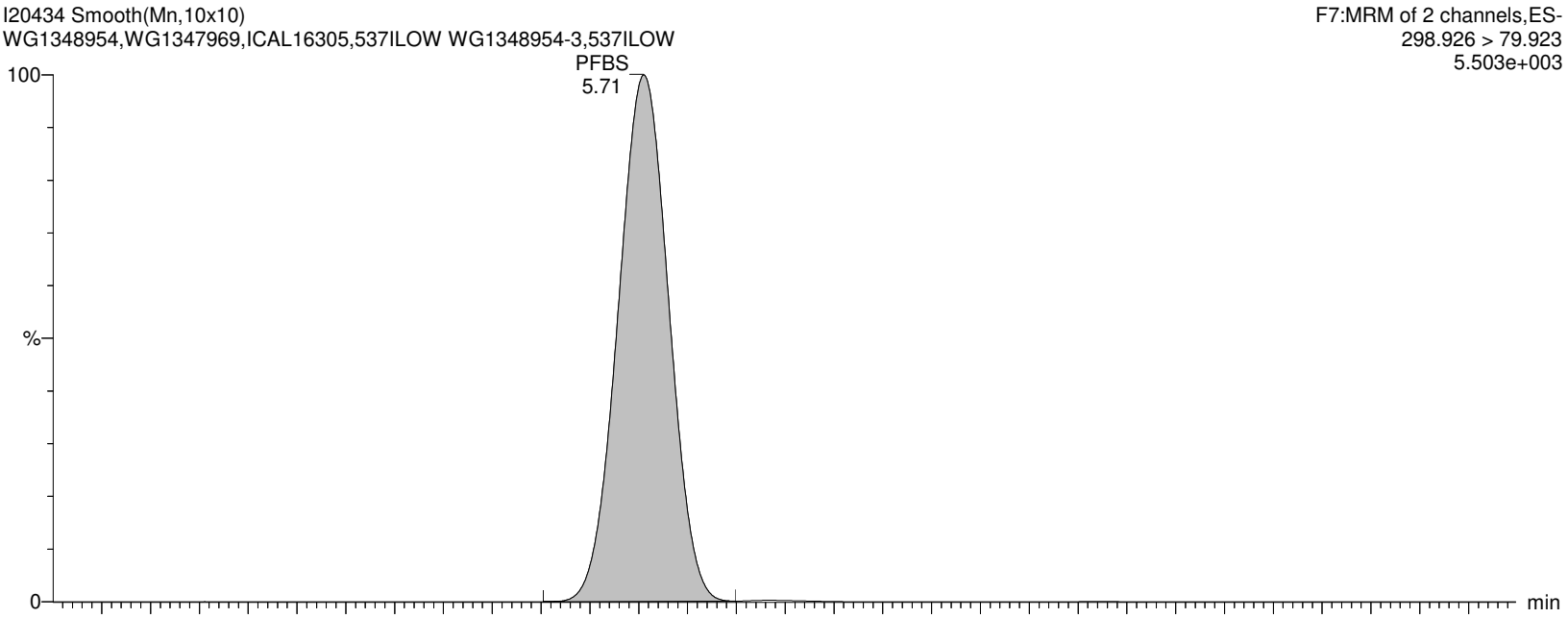
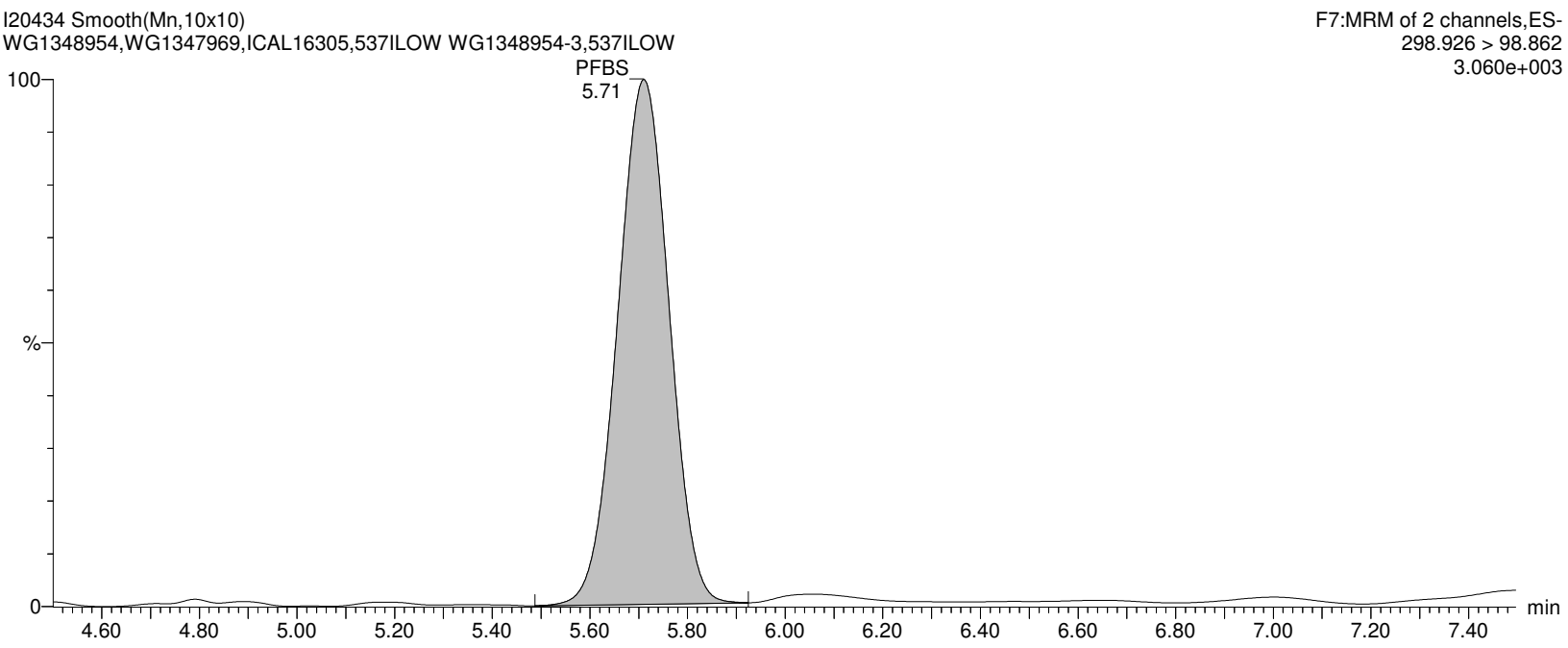
PFBS





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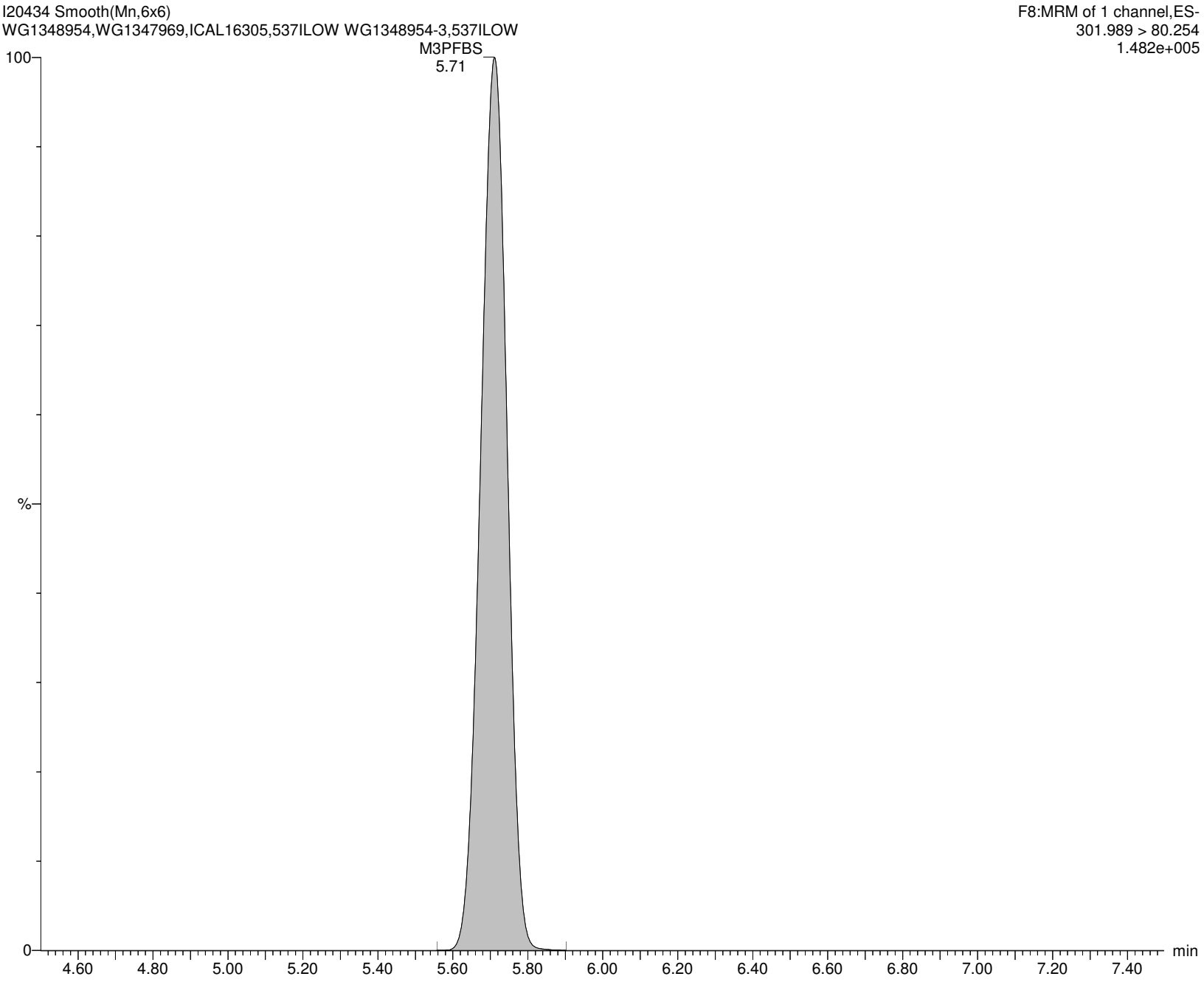

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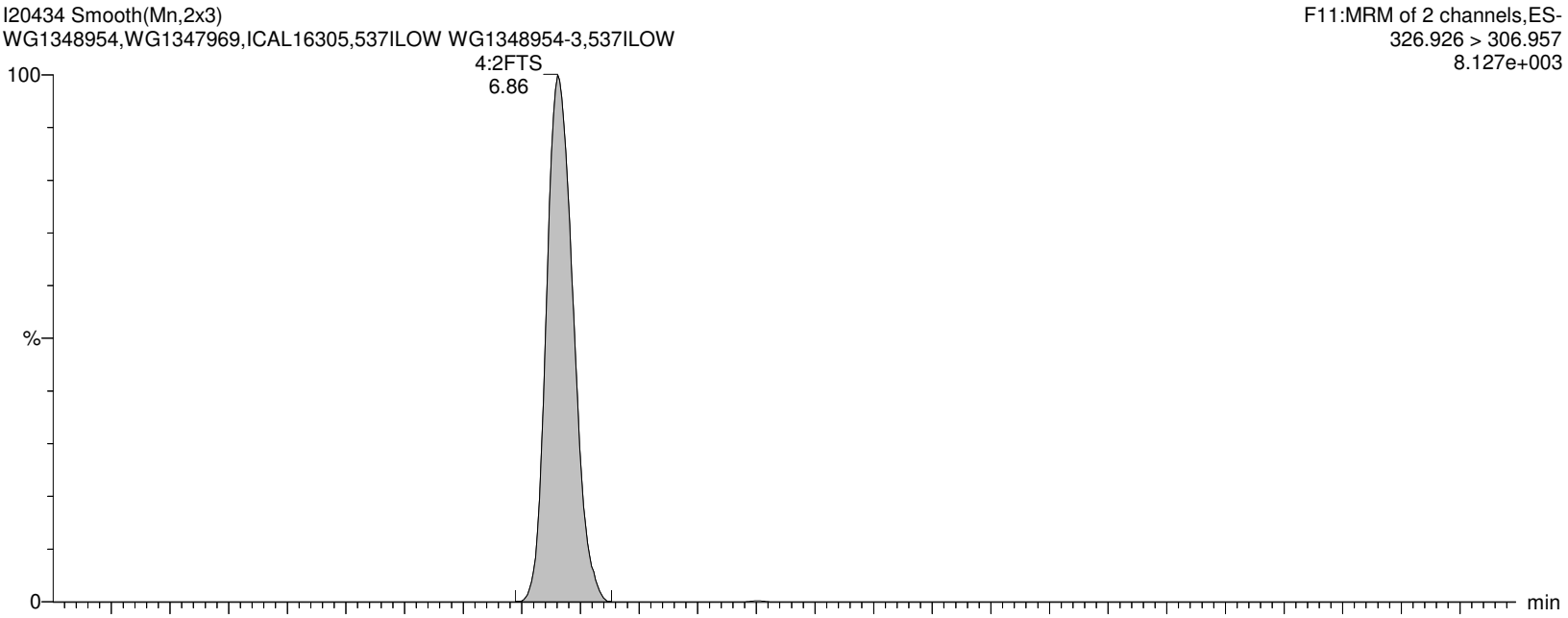
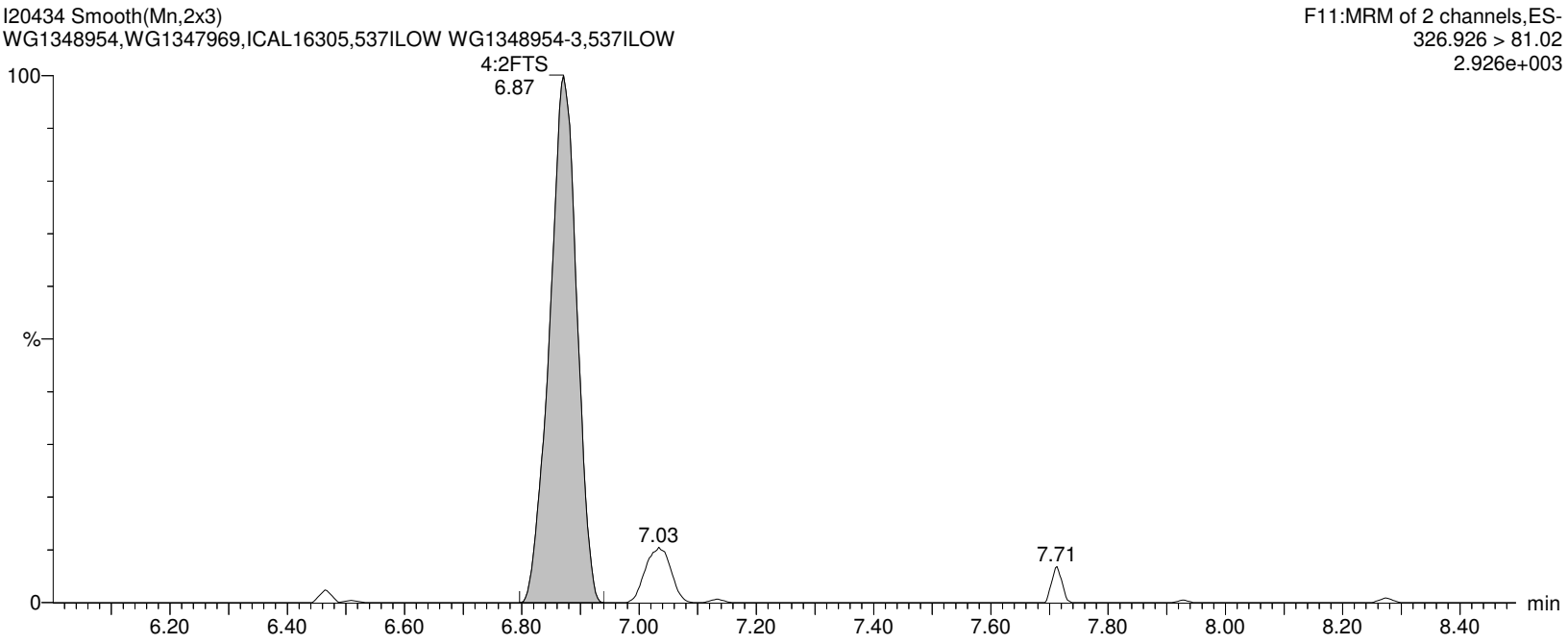
4:2FTS





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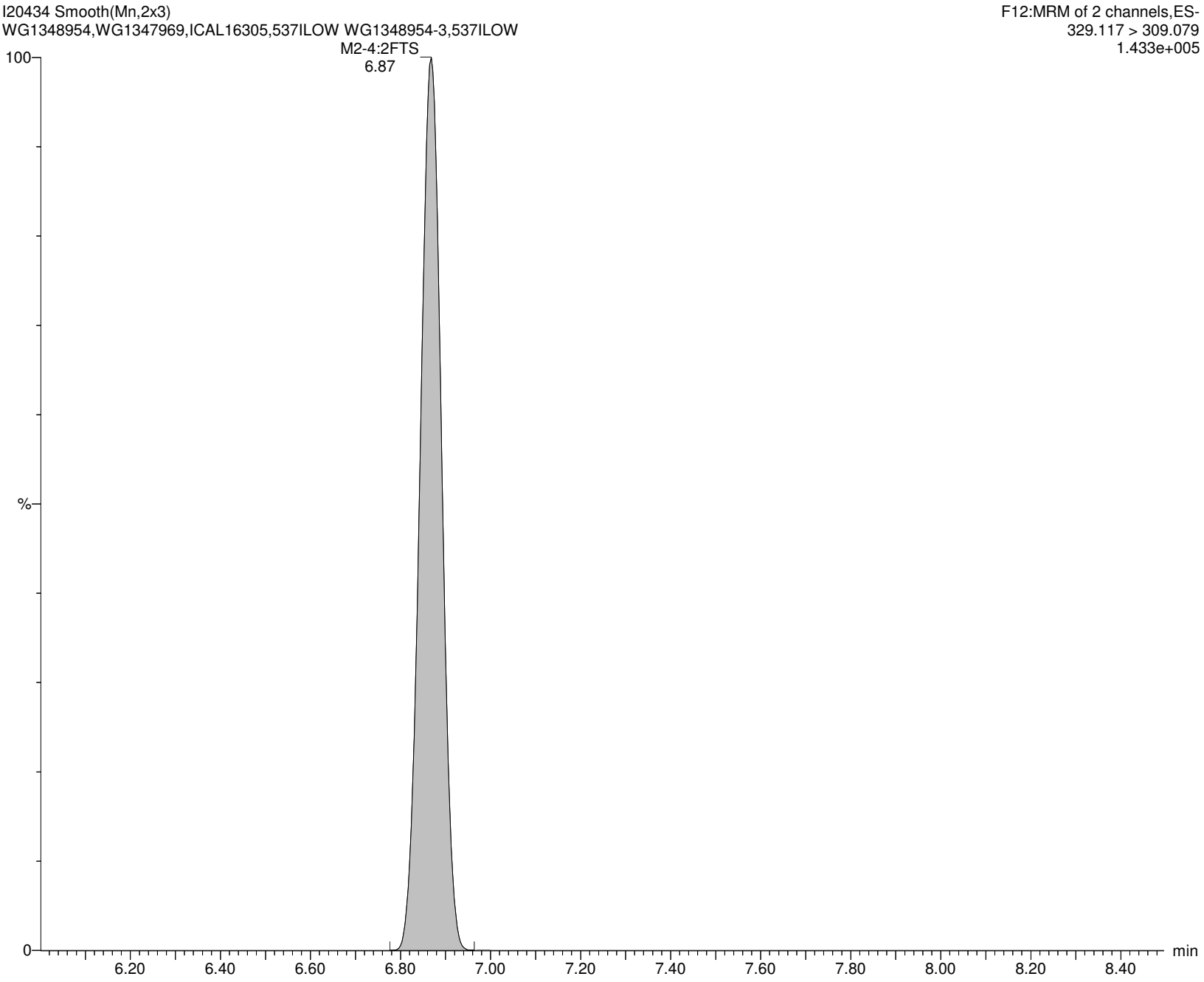

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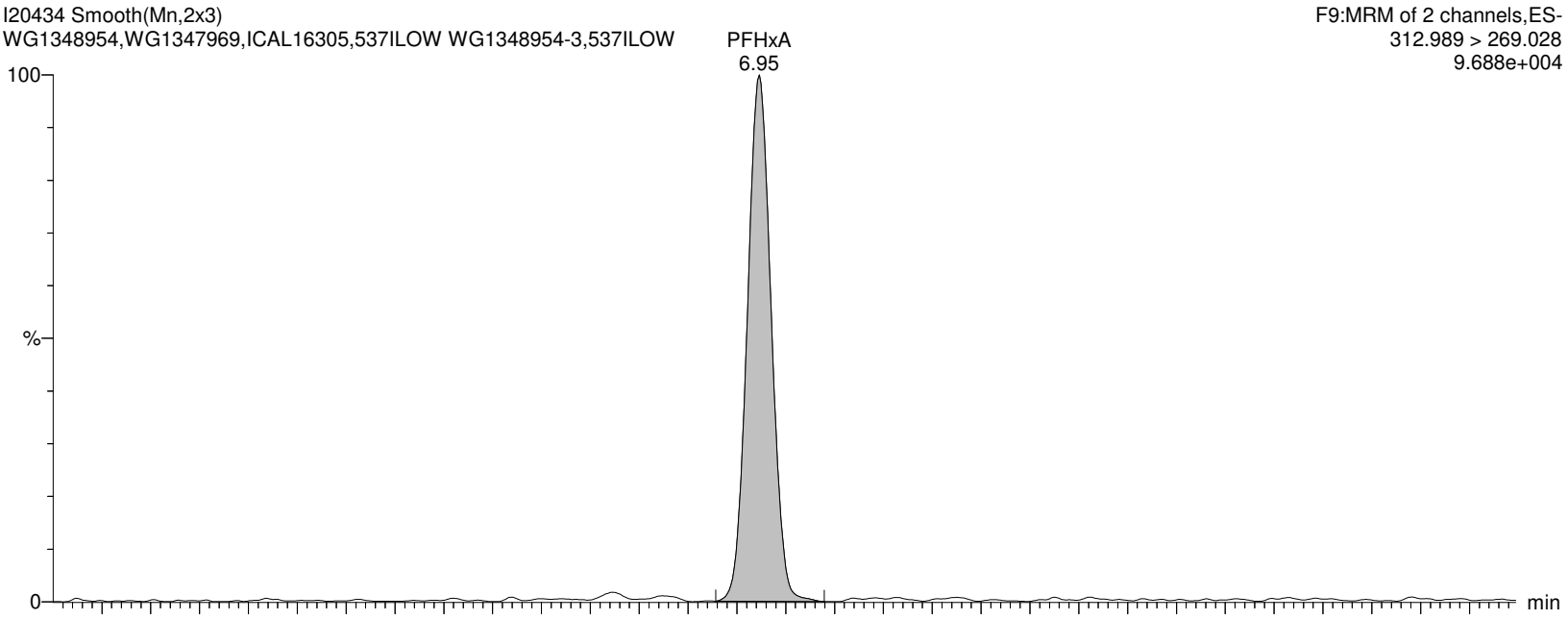

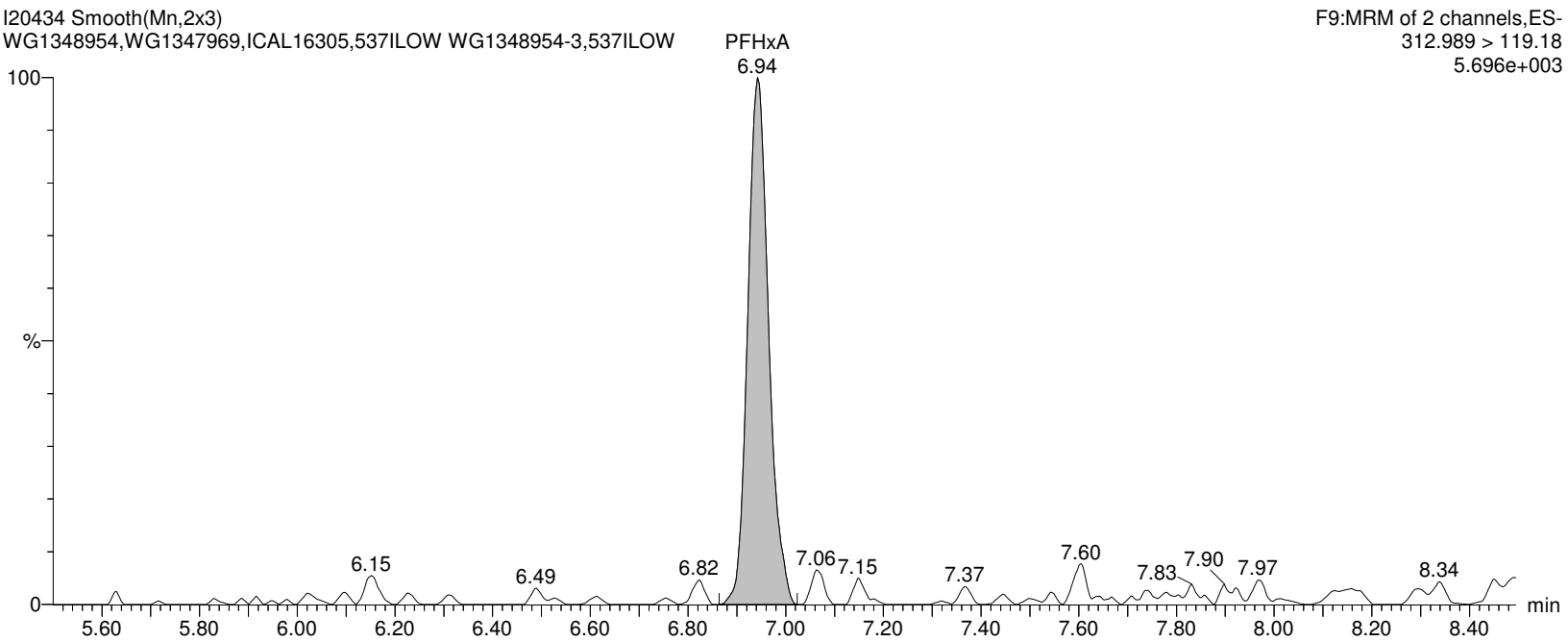

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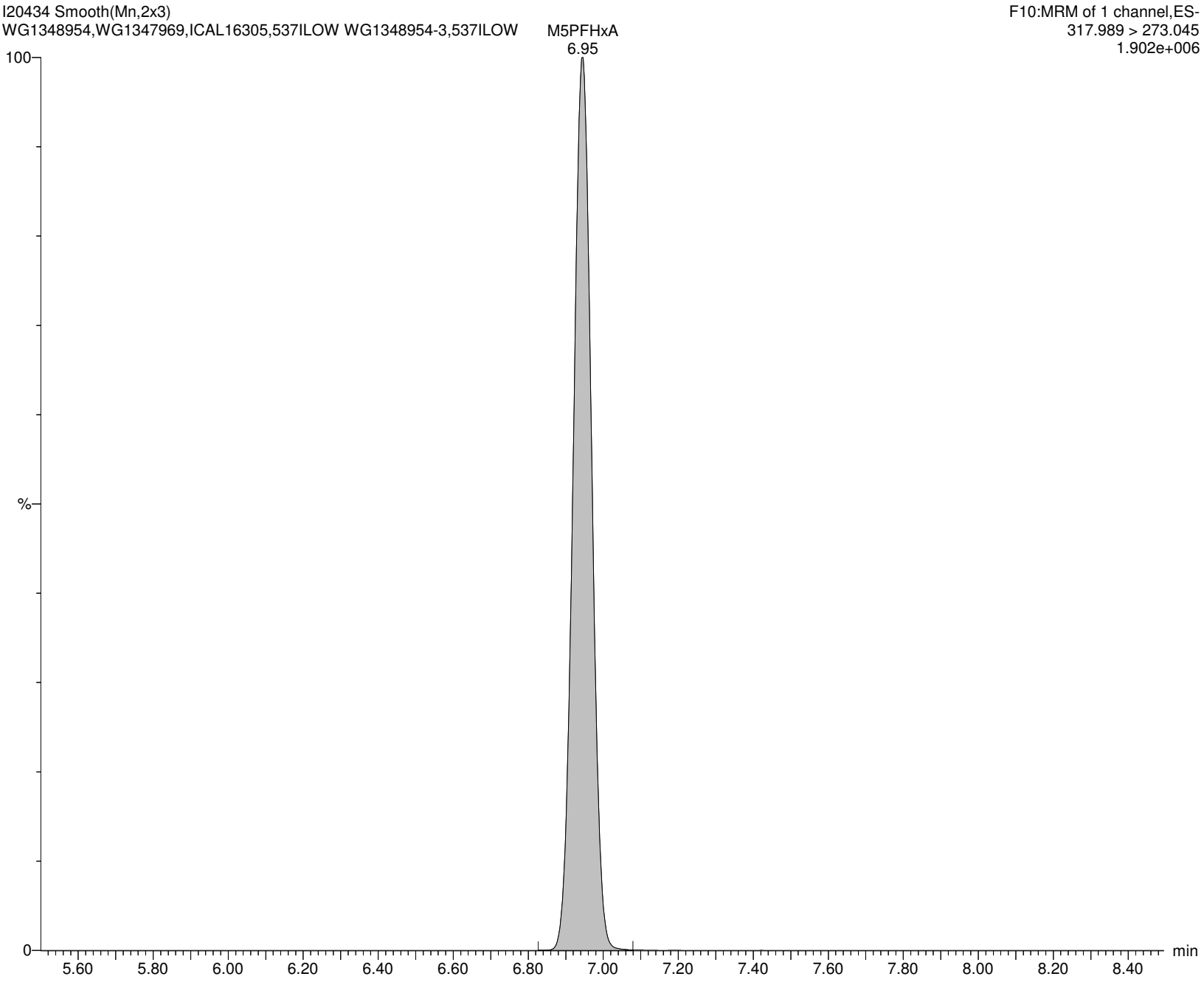

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954B.qld
Last Altered: Wednesday, March 11, 2020 19:42:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:41:27 Eastern Daylight Time

Name: I20434
ID: WG1348954-3,537ILOW
Date: 10-Mar-2020
Time: 21:04:42
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User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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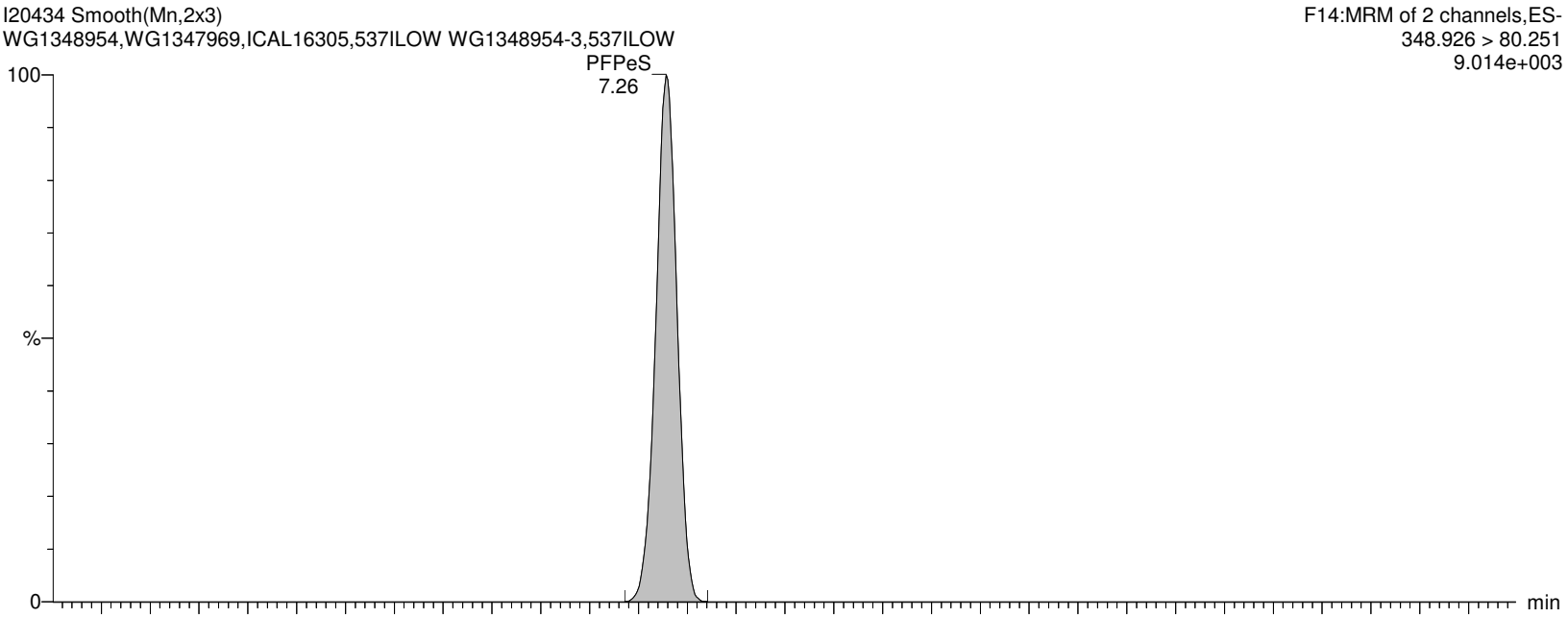

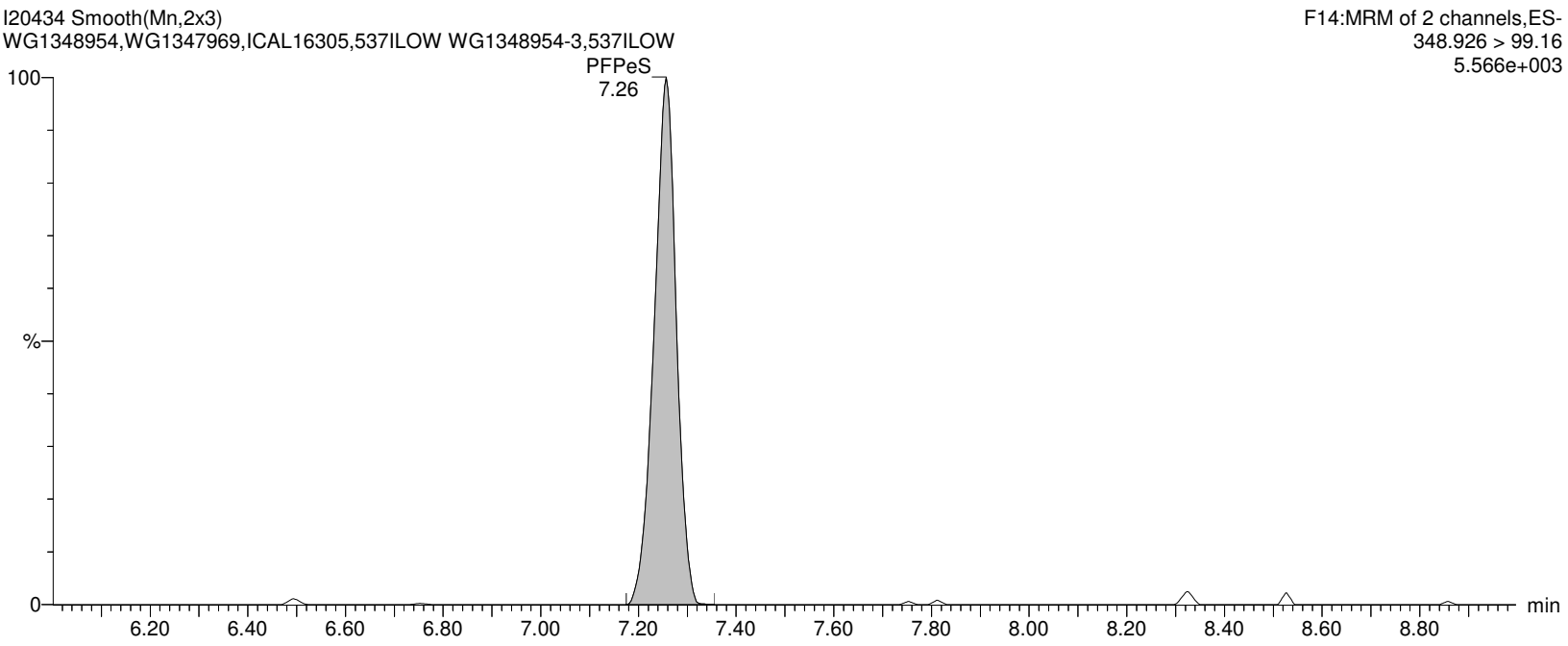

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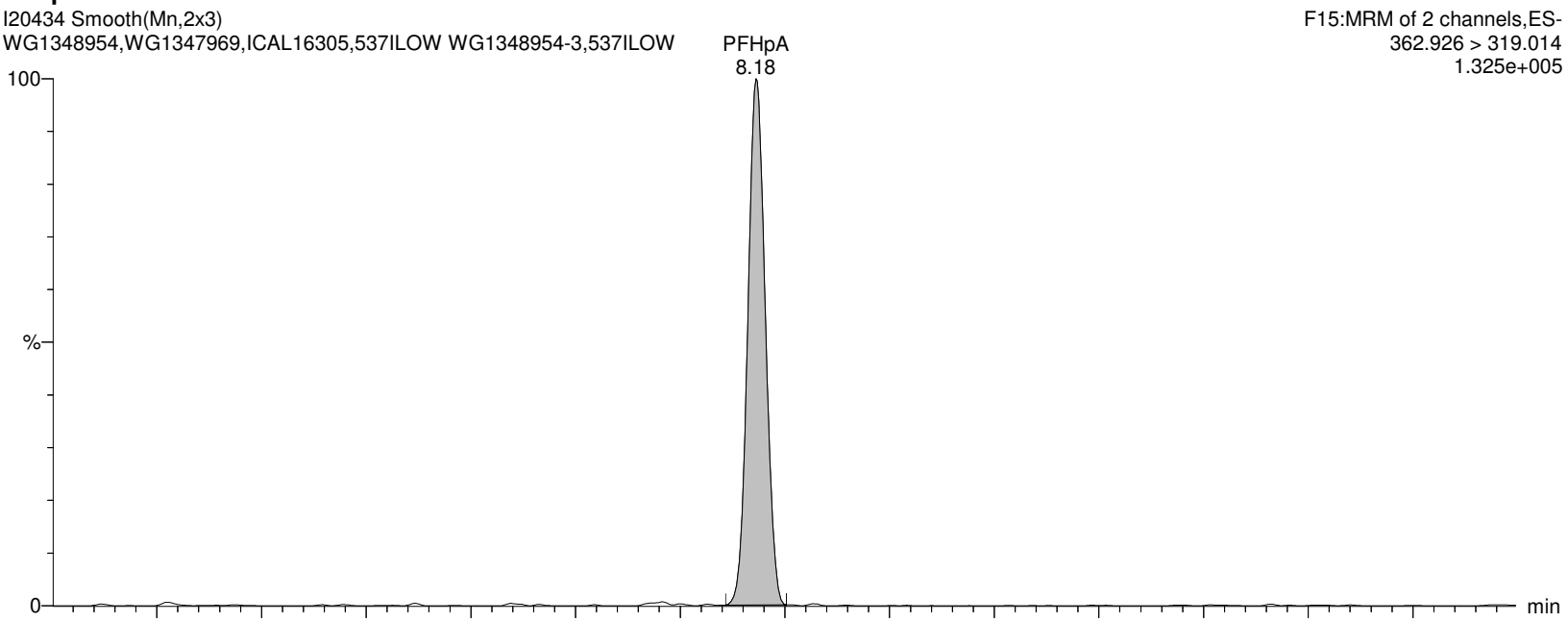

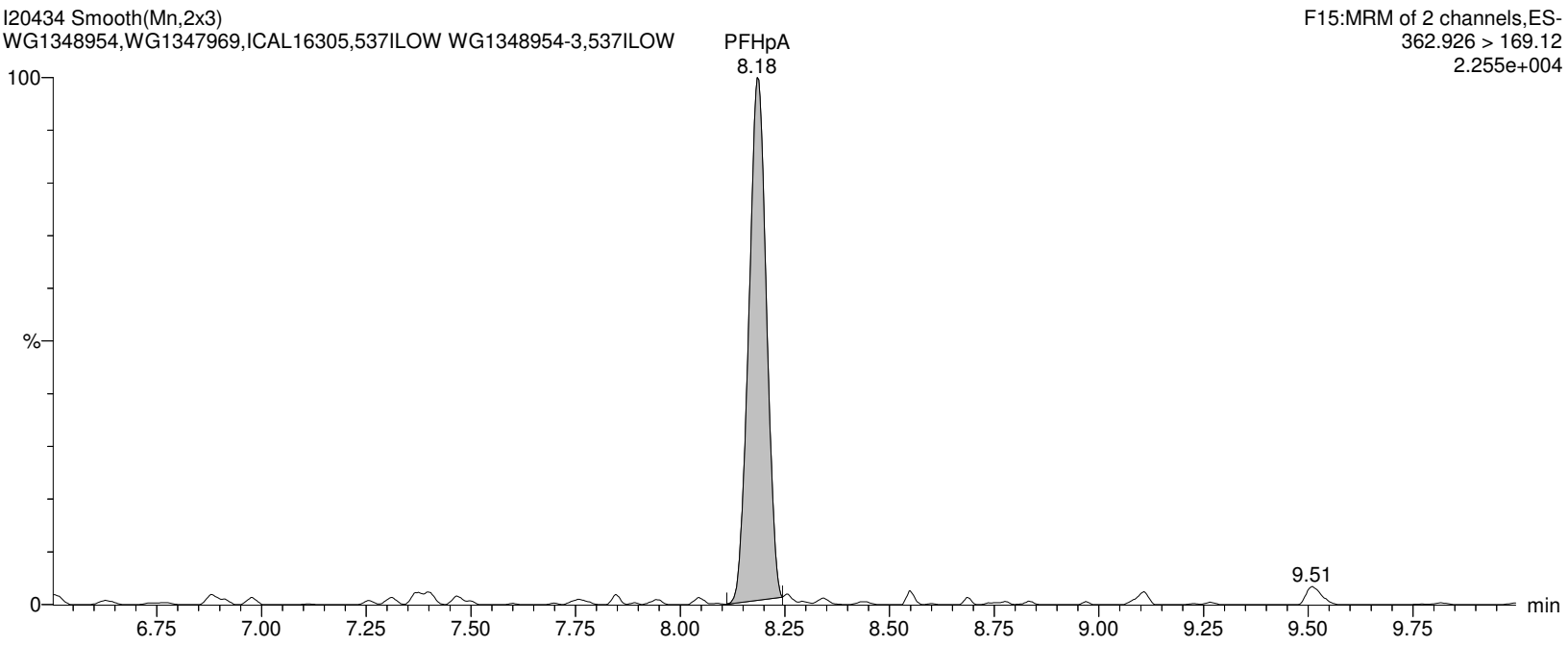

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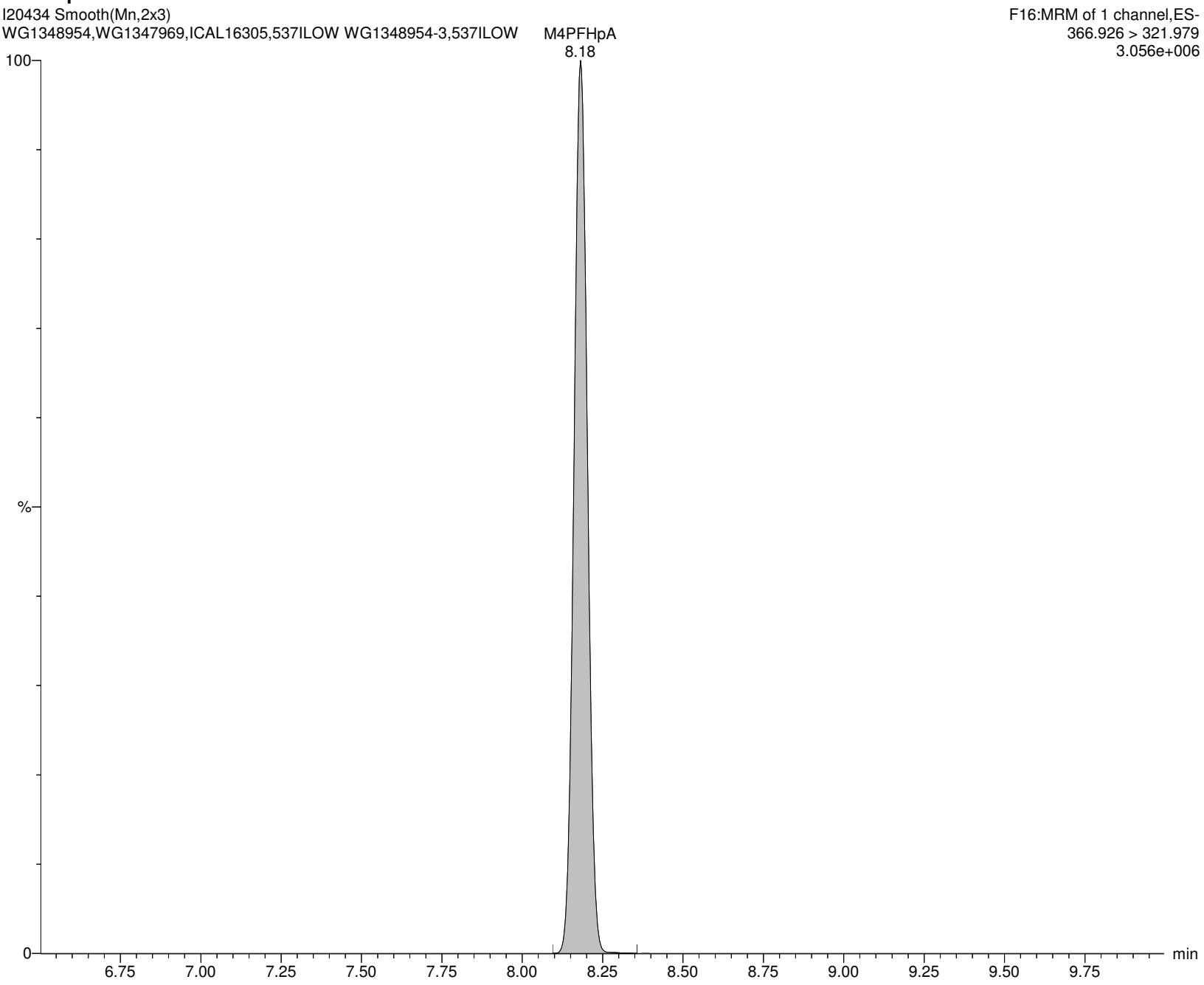

all concentration units in (ng/mL)

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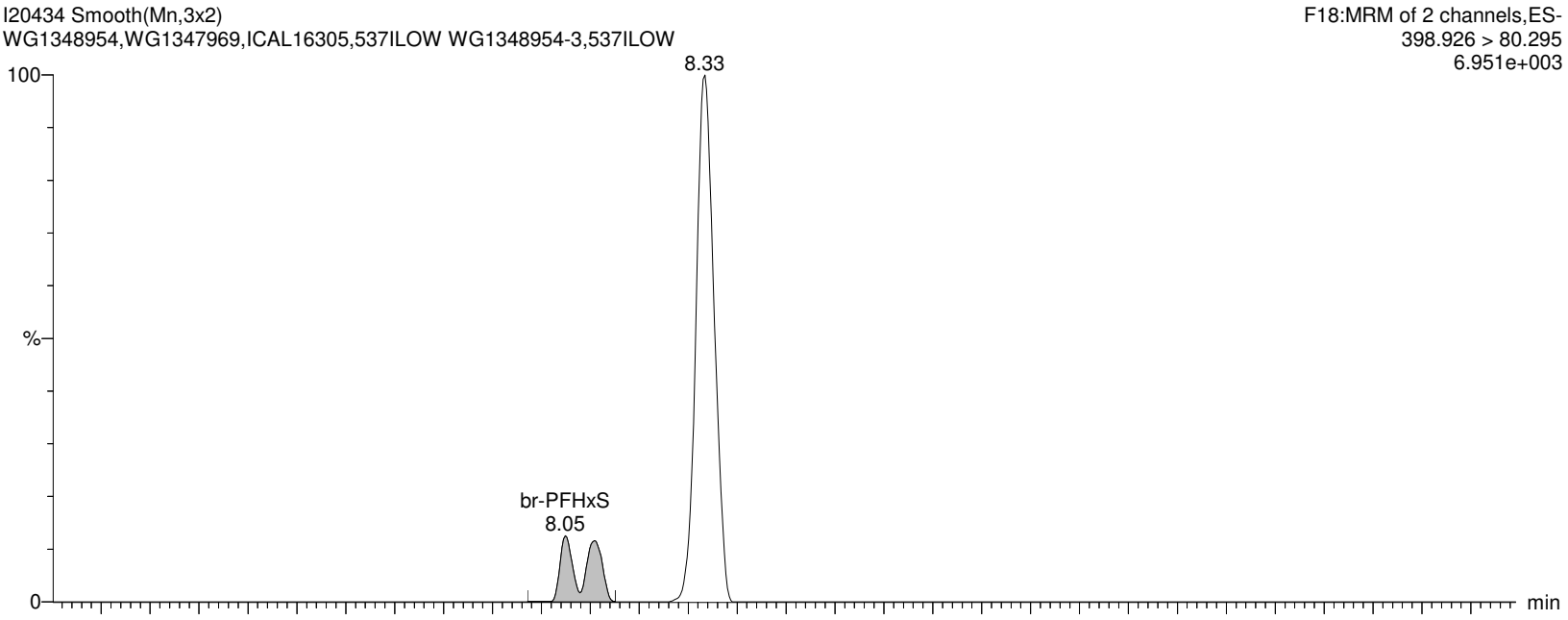

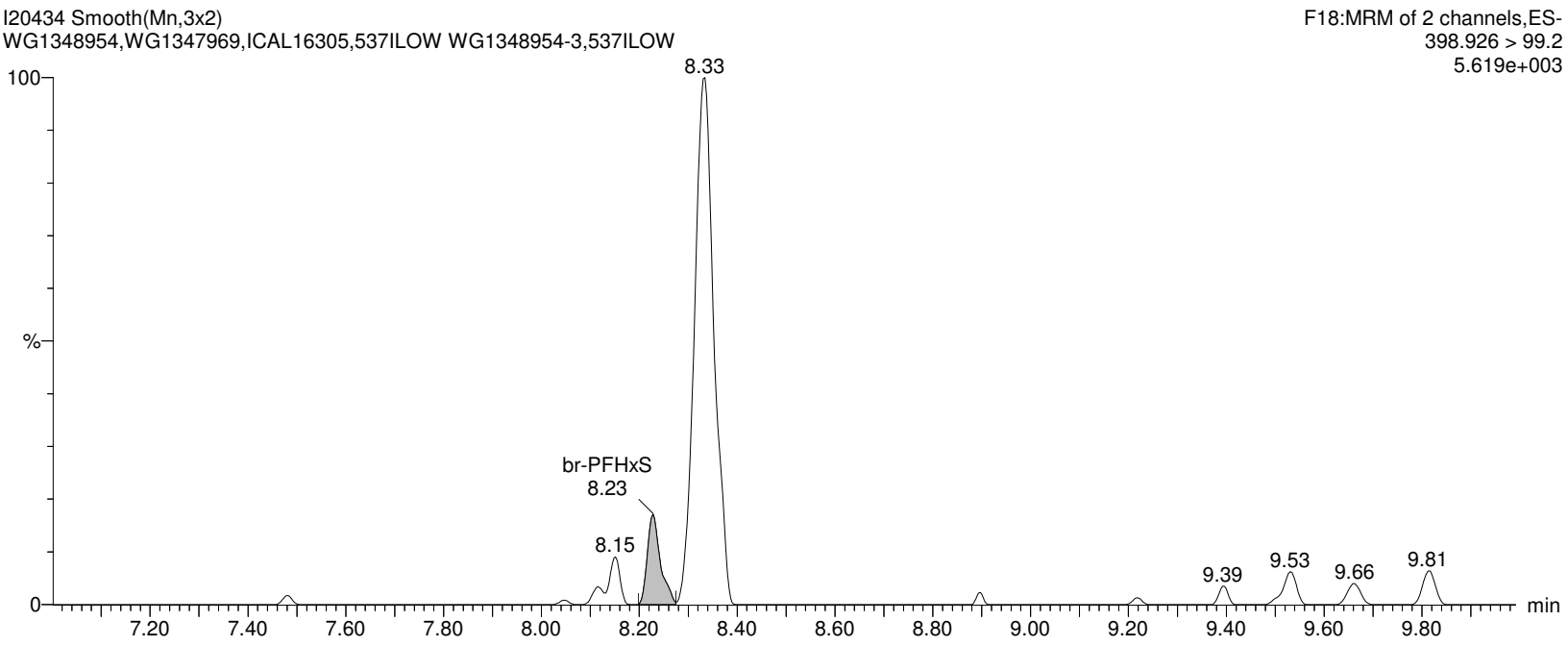

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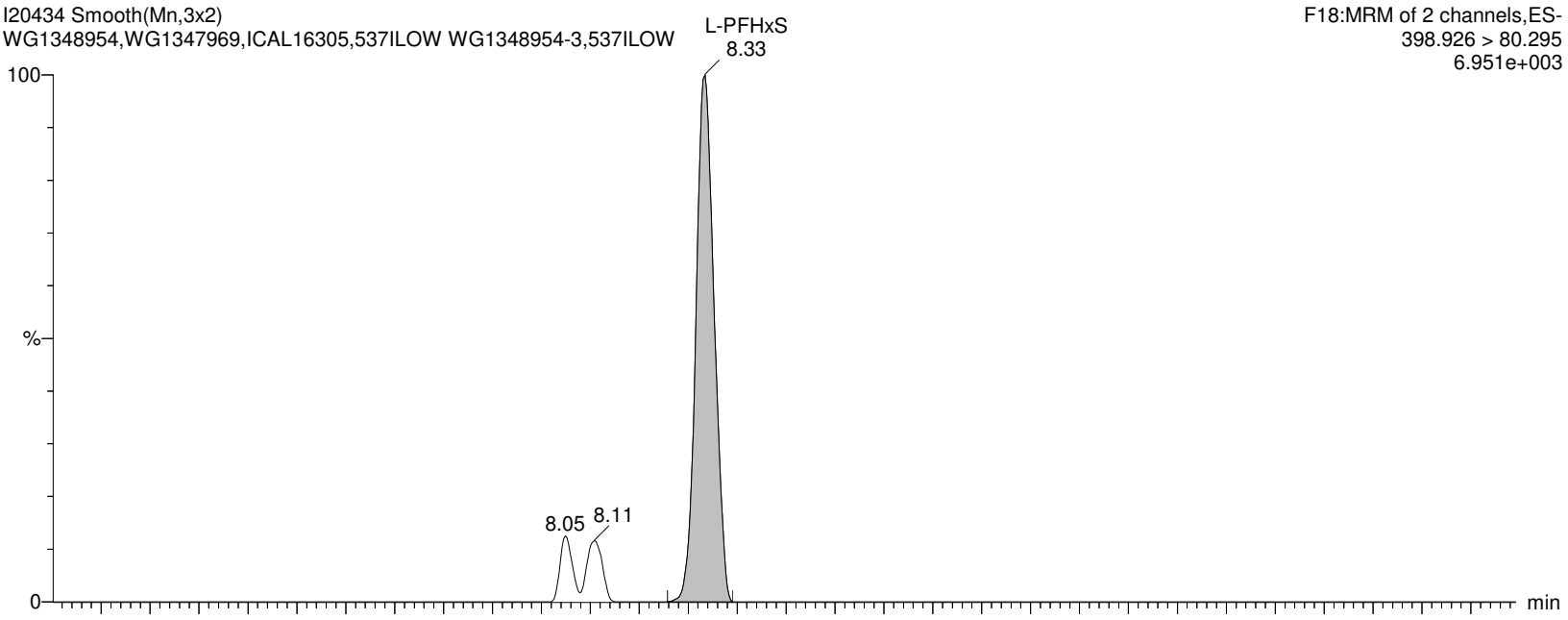

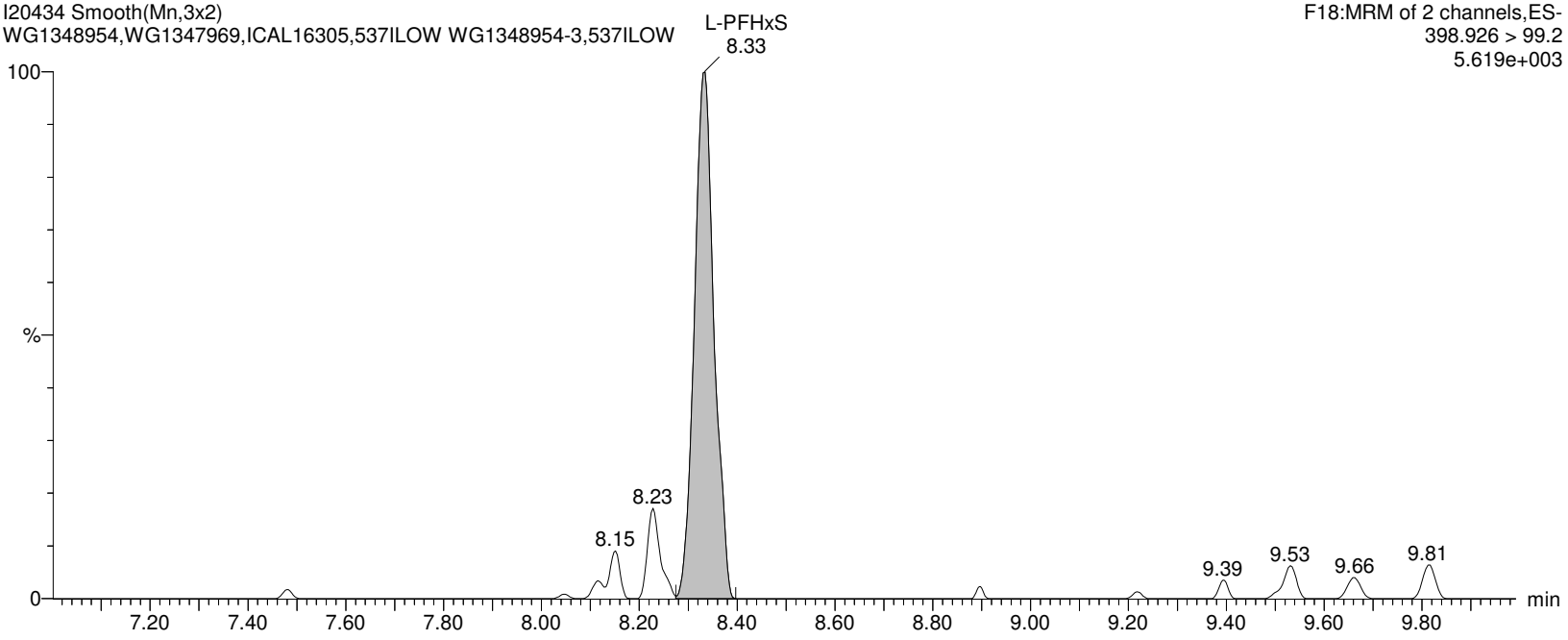

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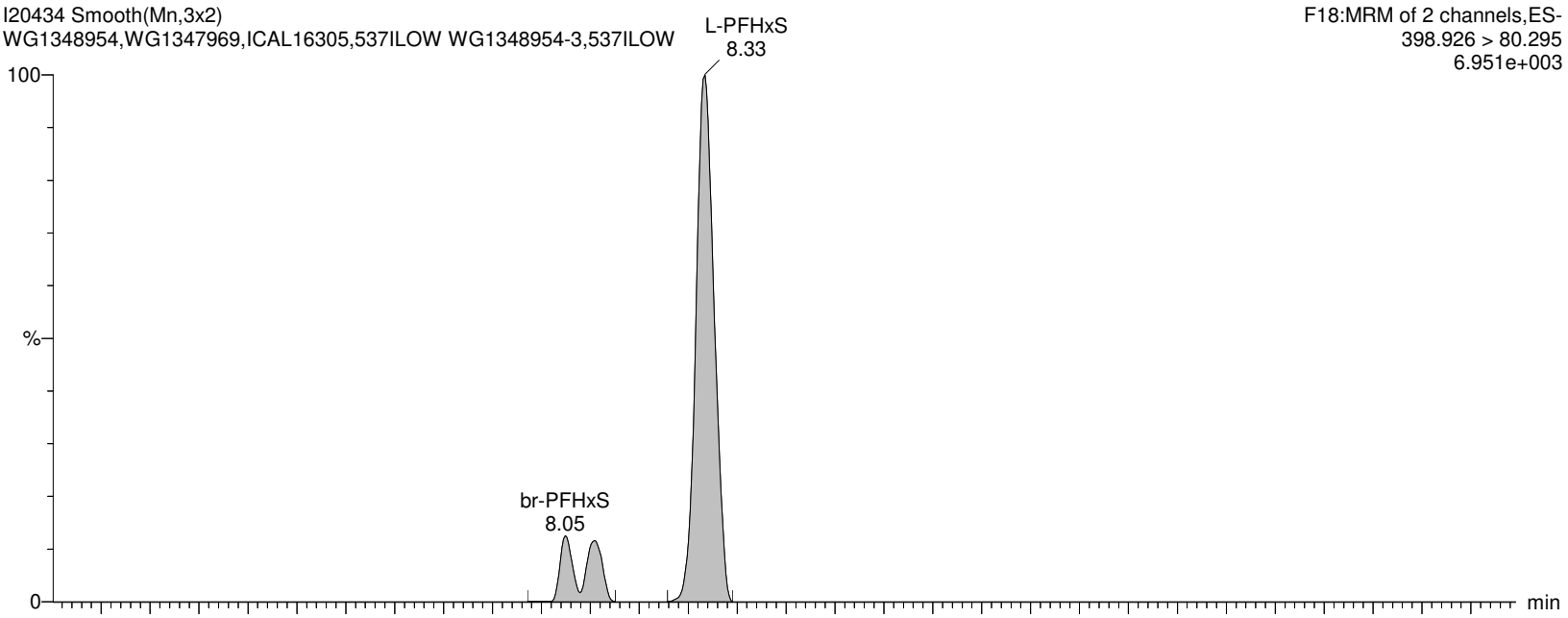

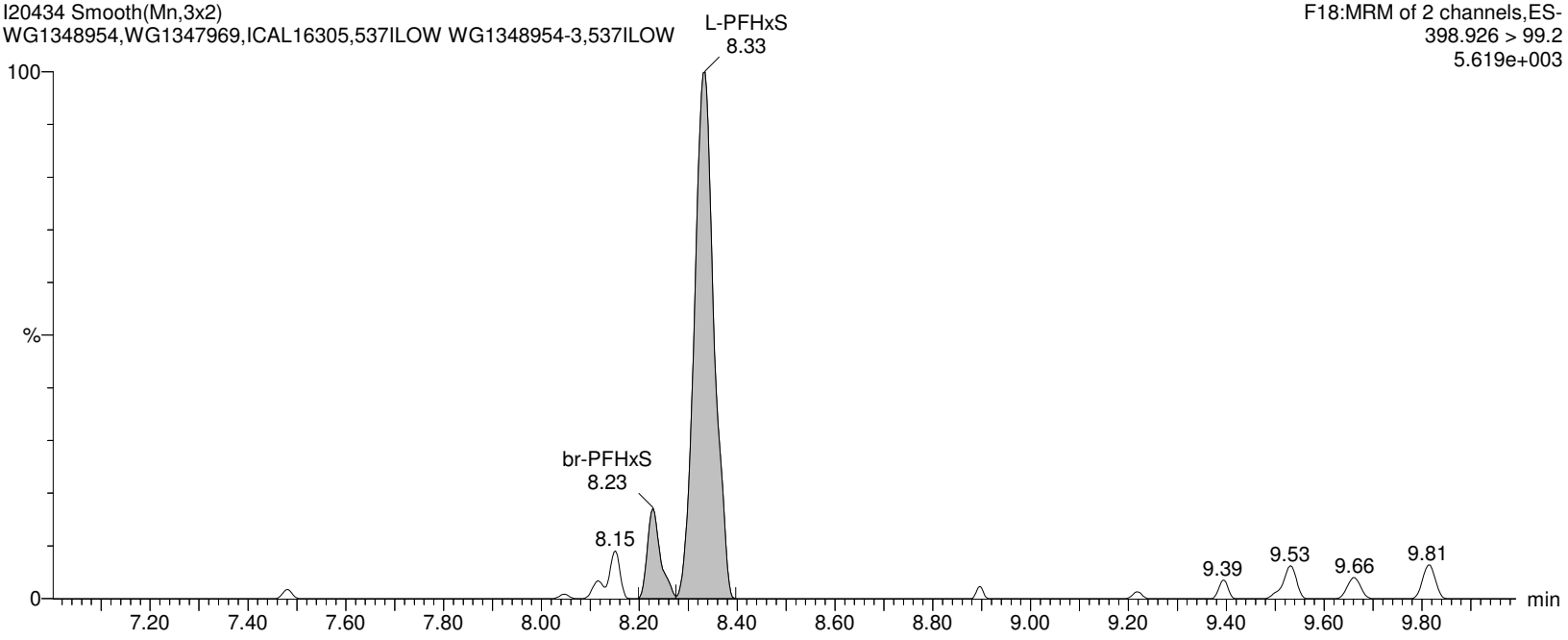

all concentration units in (ng/mL)

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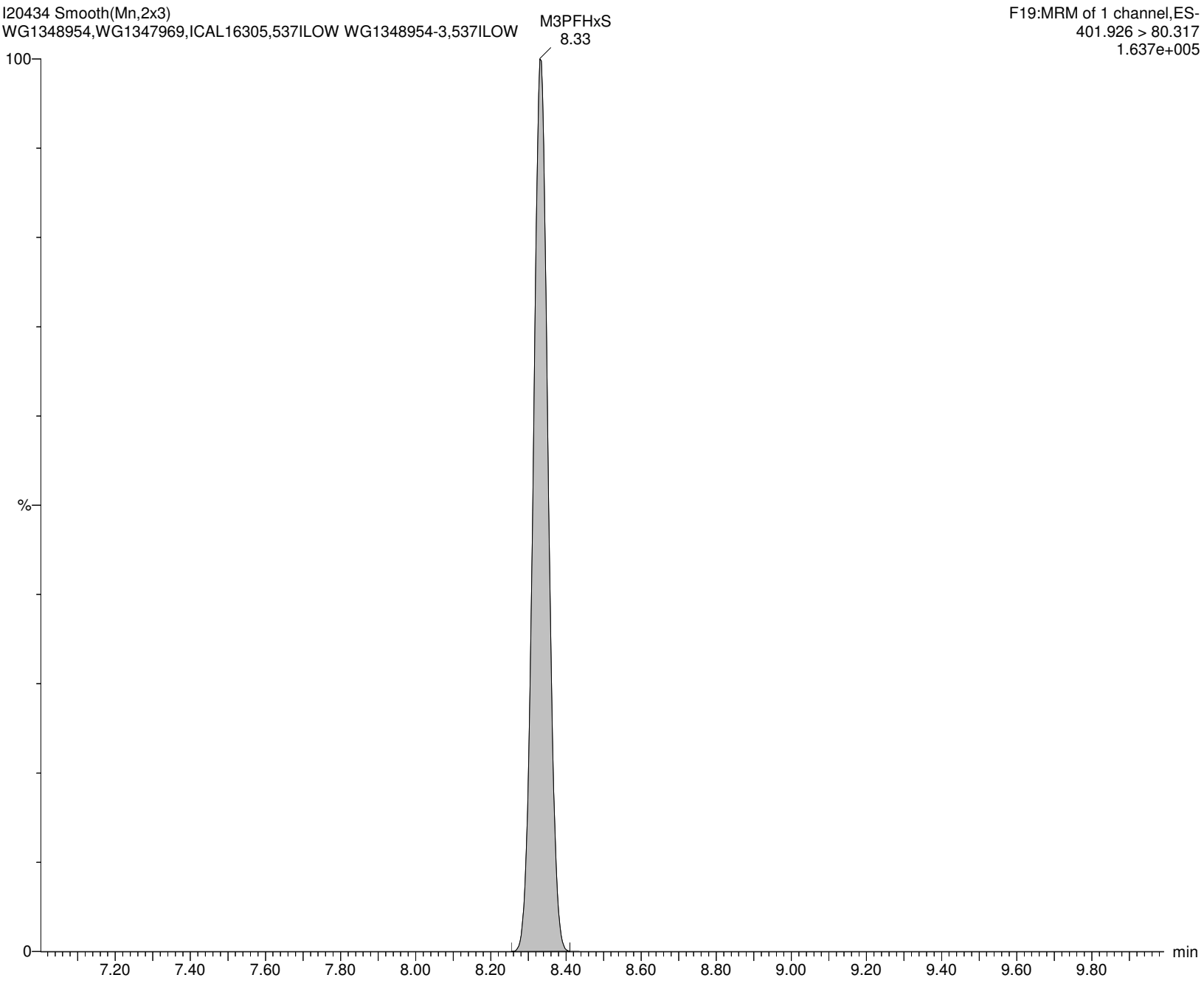

all concentration units in (ng/mL)

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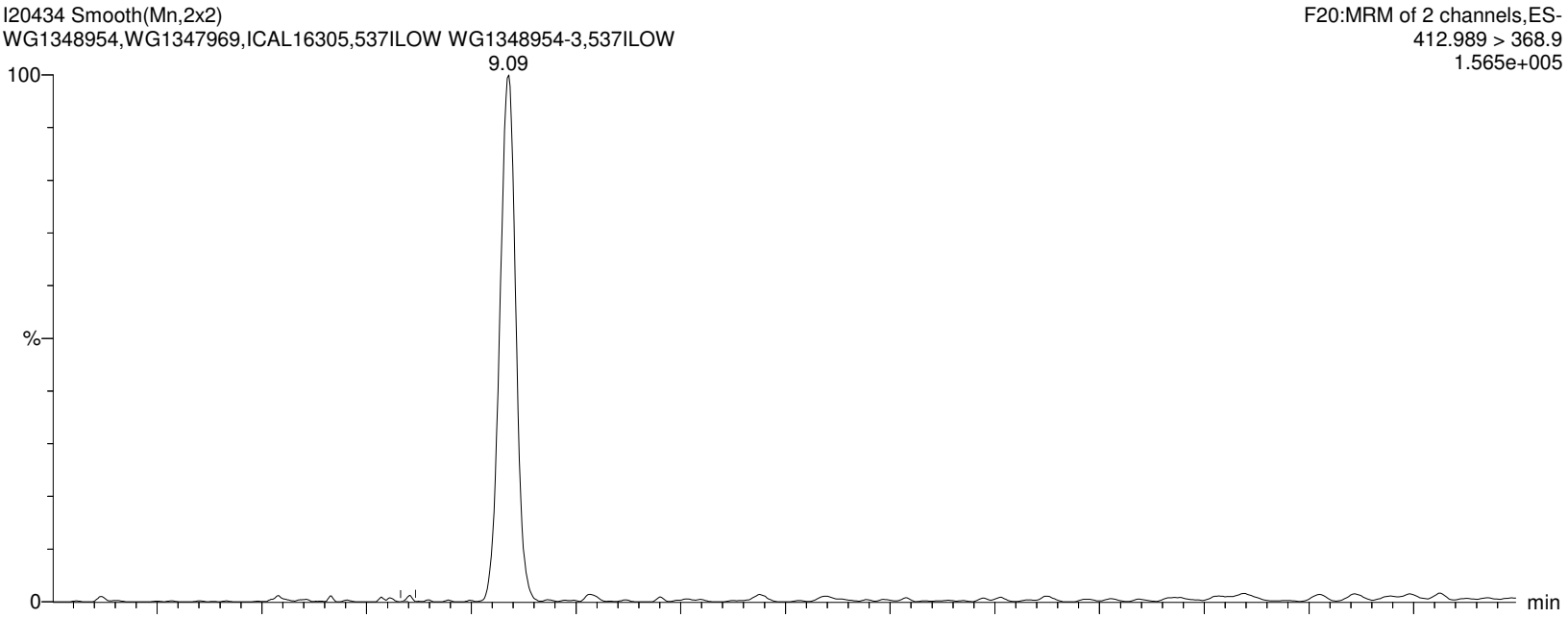

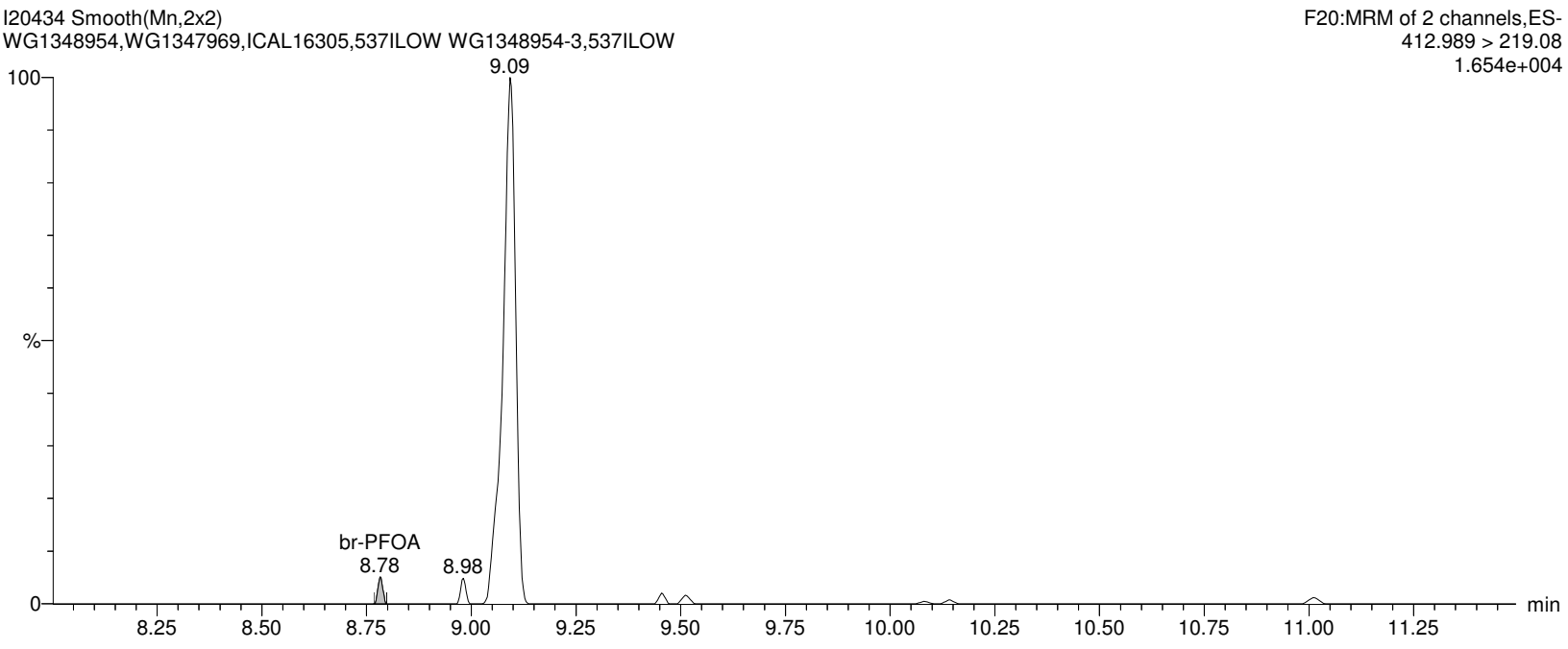

all concentration units in (ng/mL)

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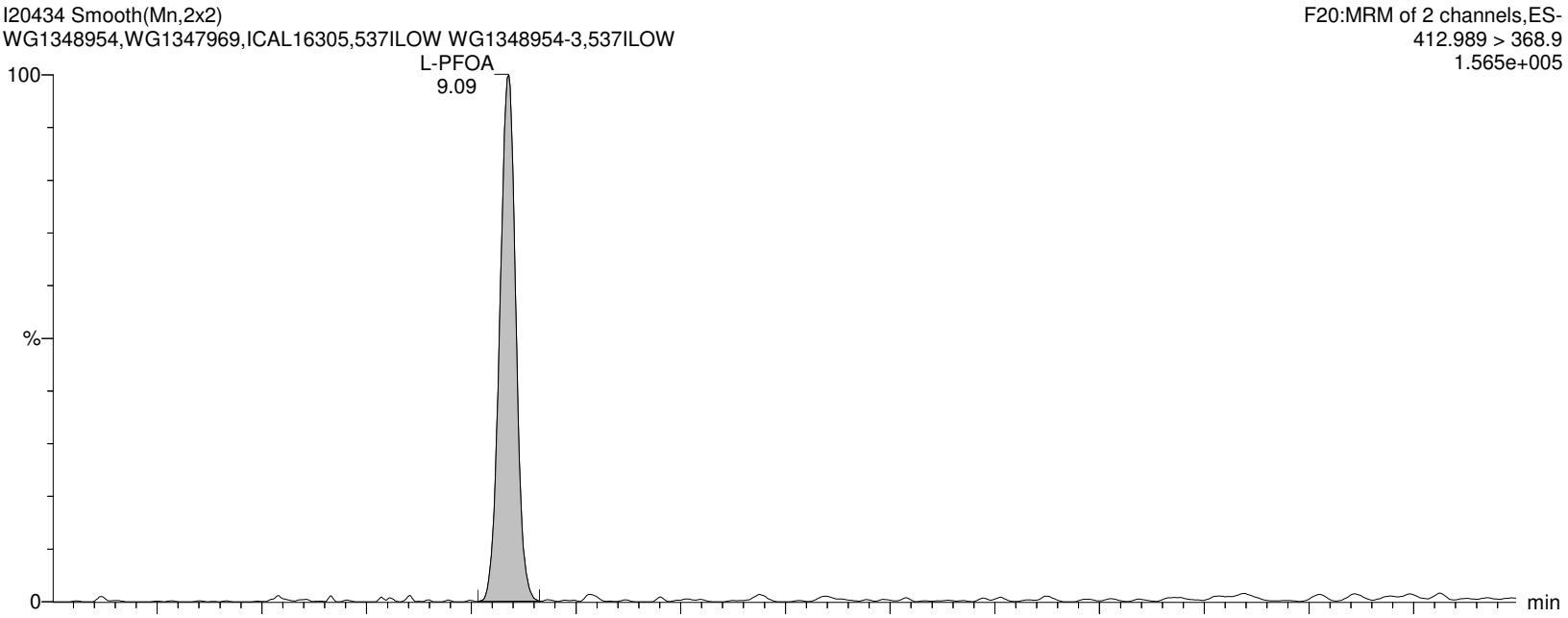

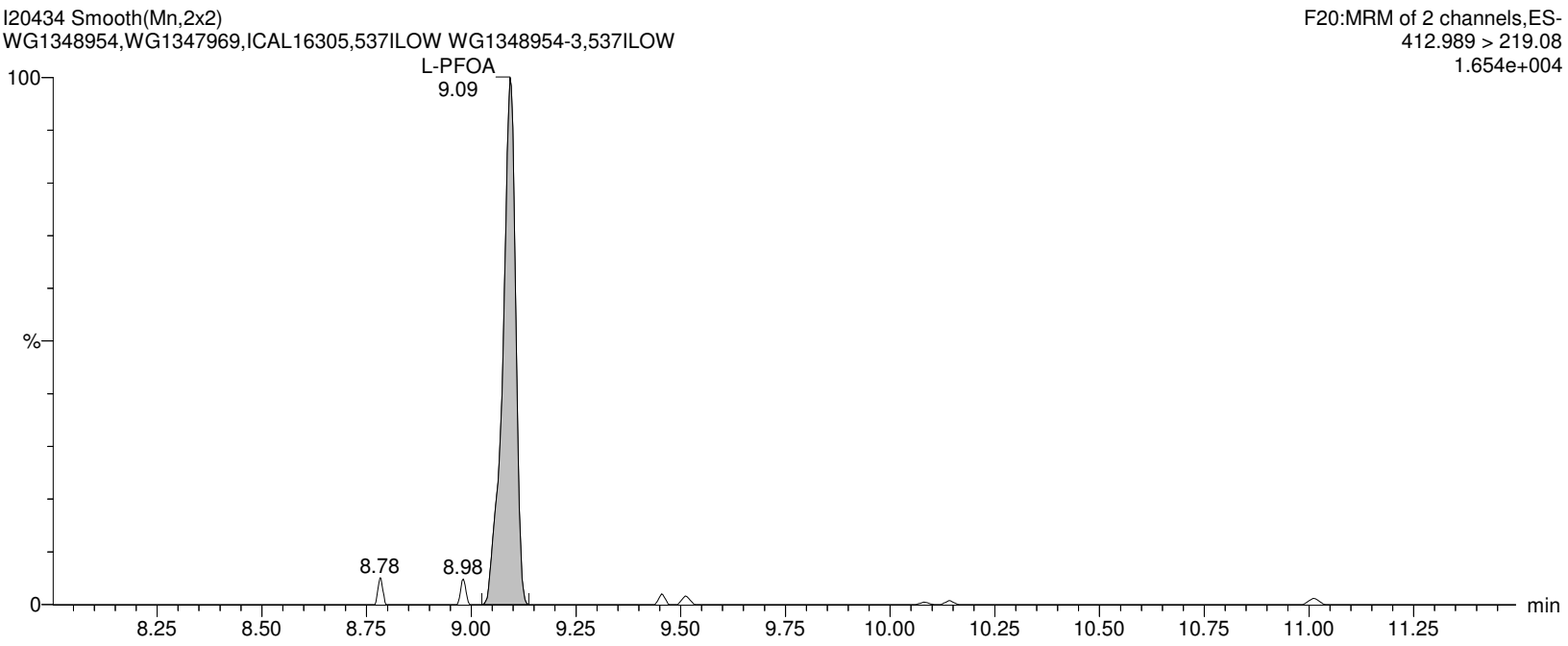

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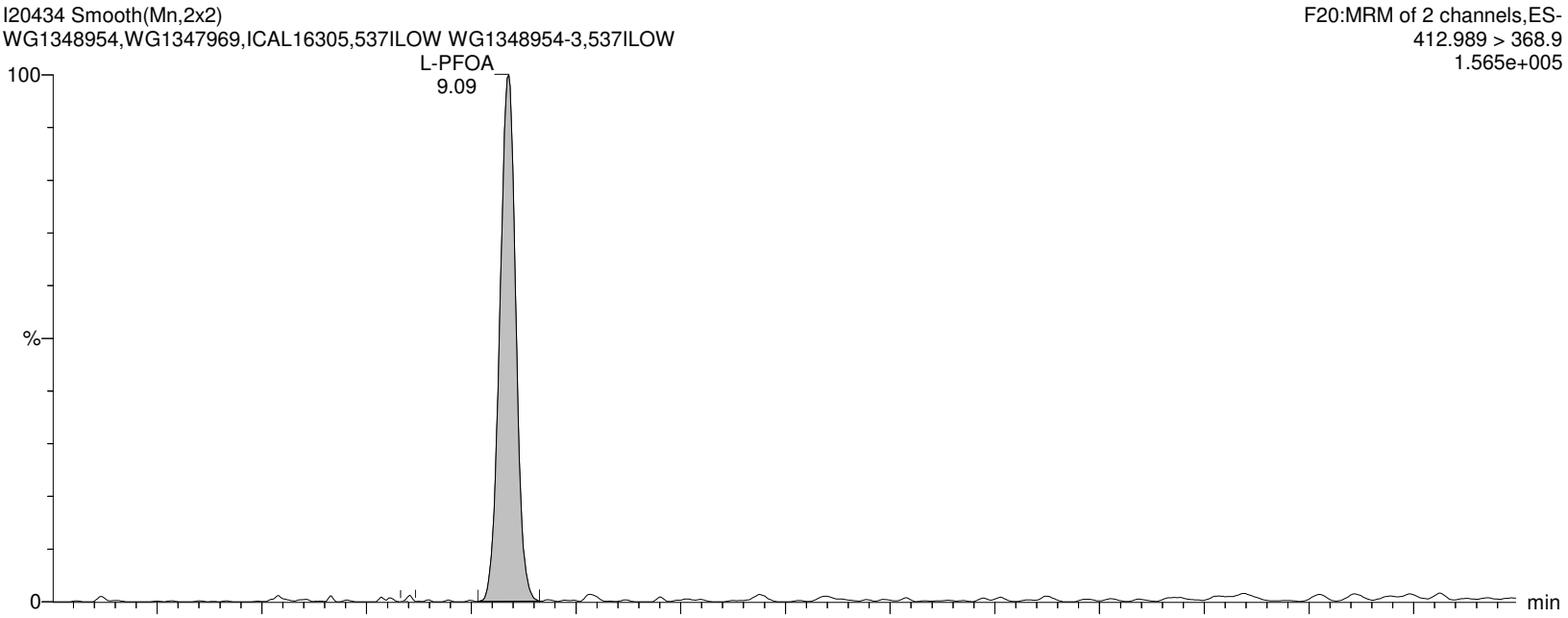

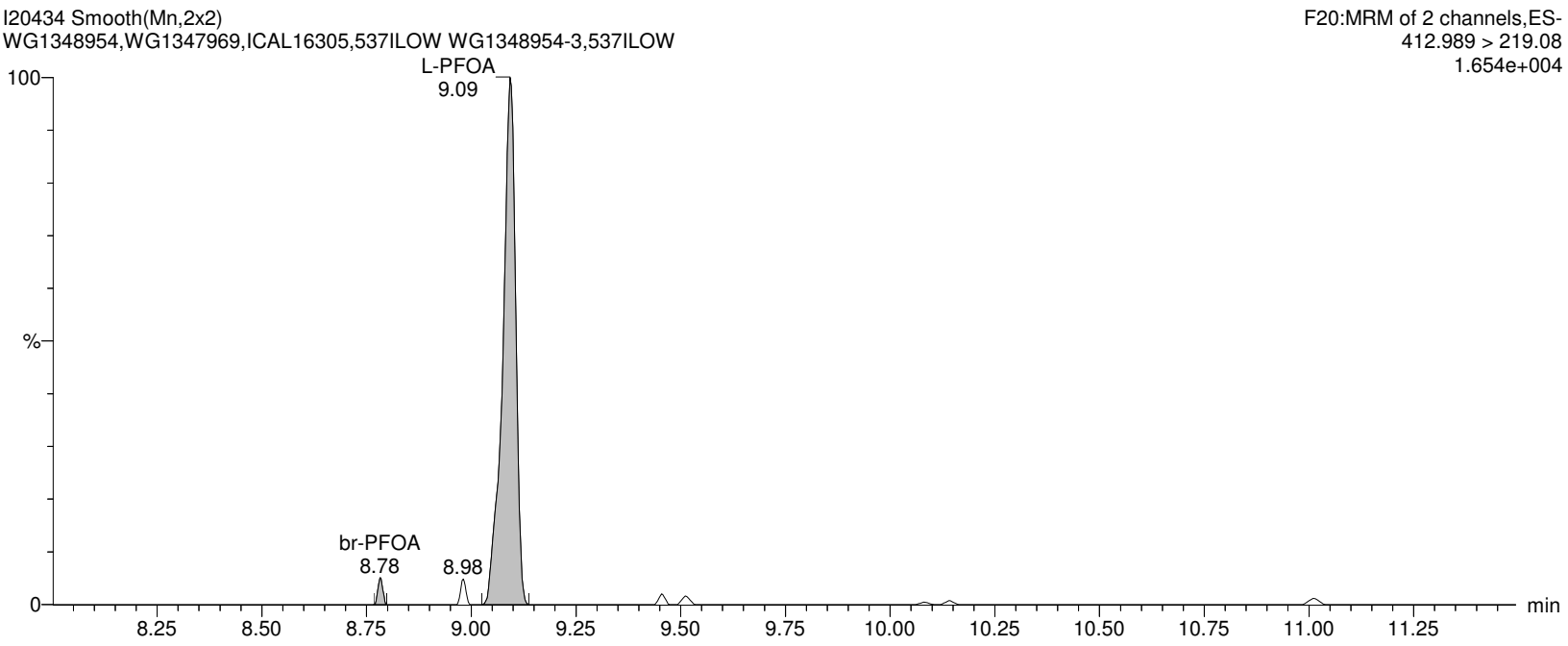

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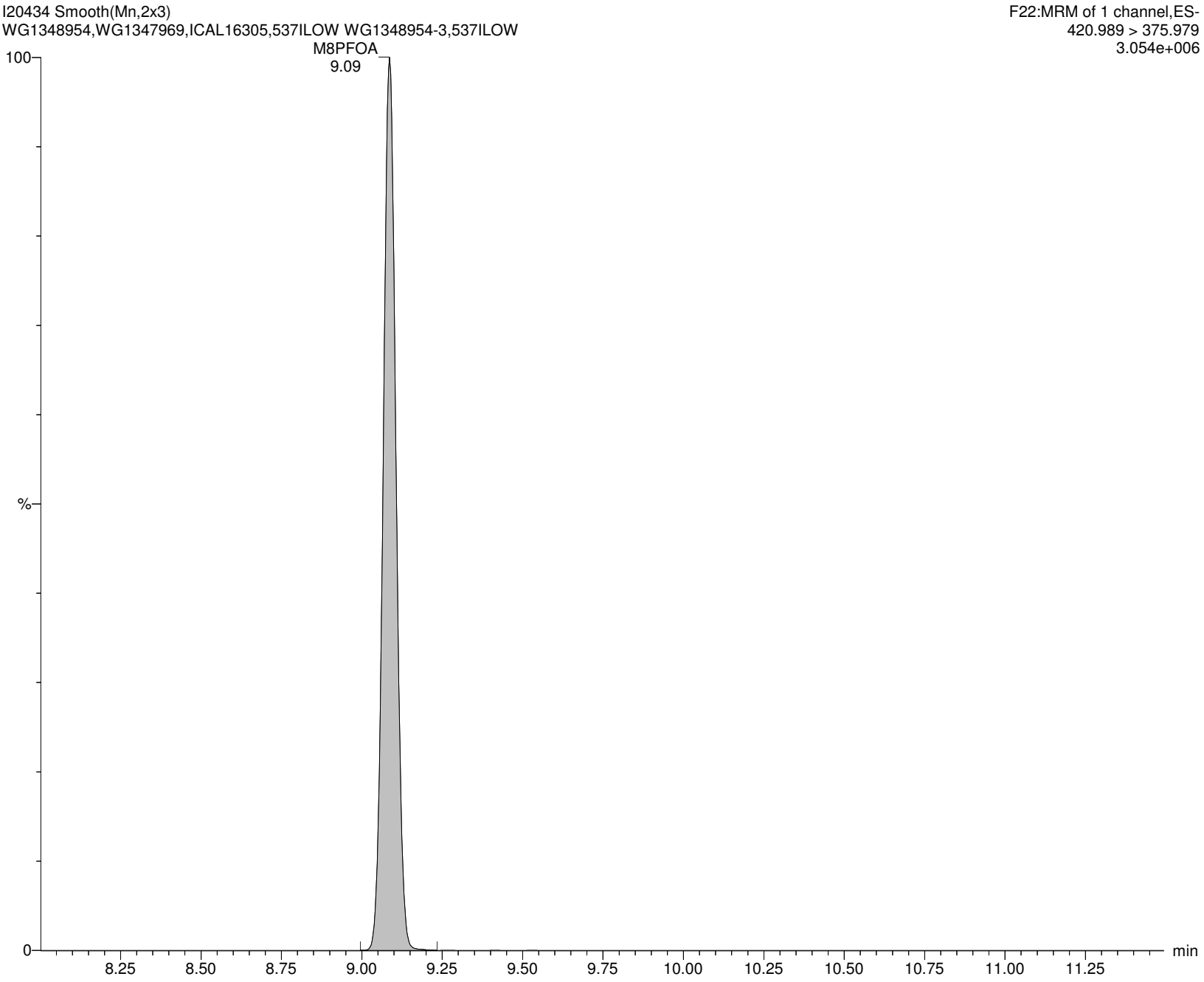

all concentration units in (ng/mL)

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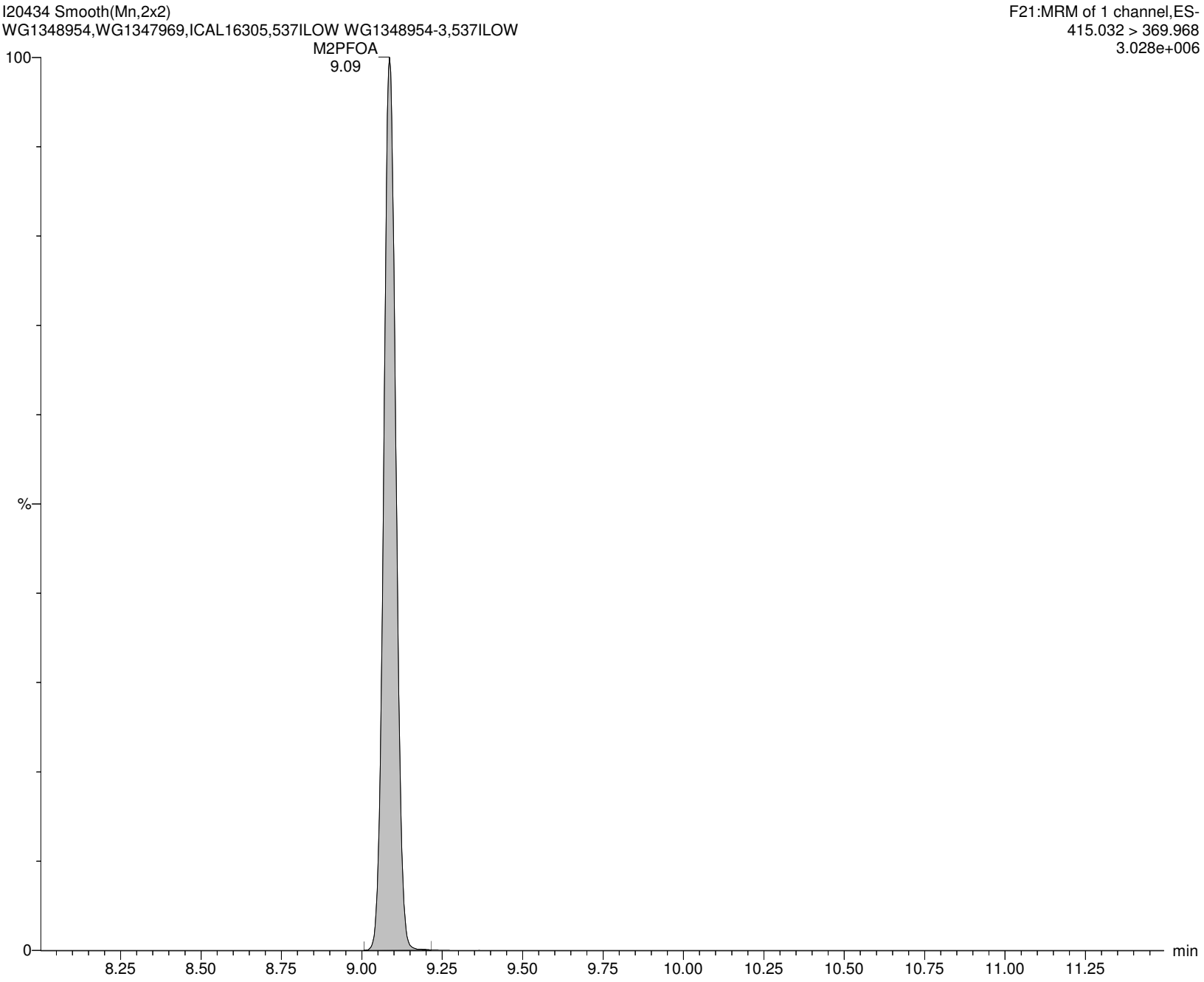

all concentration units in (ng/mL)

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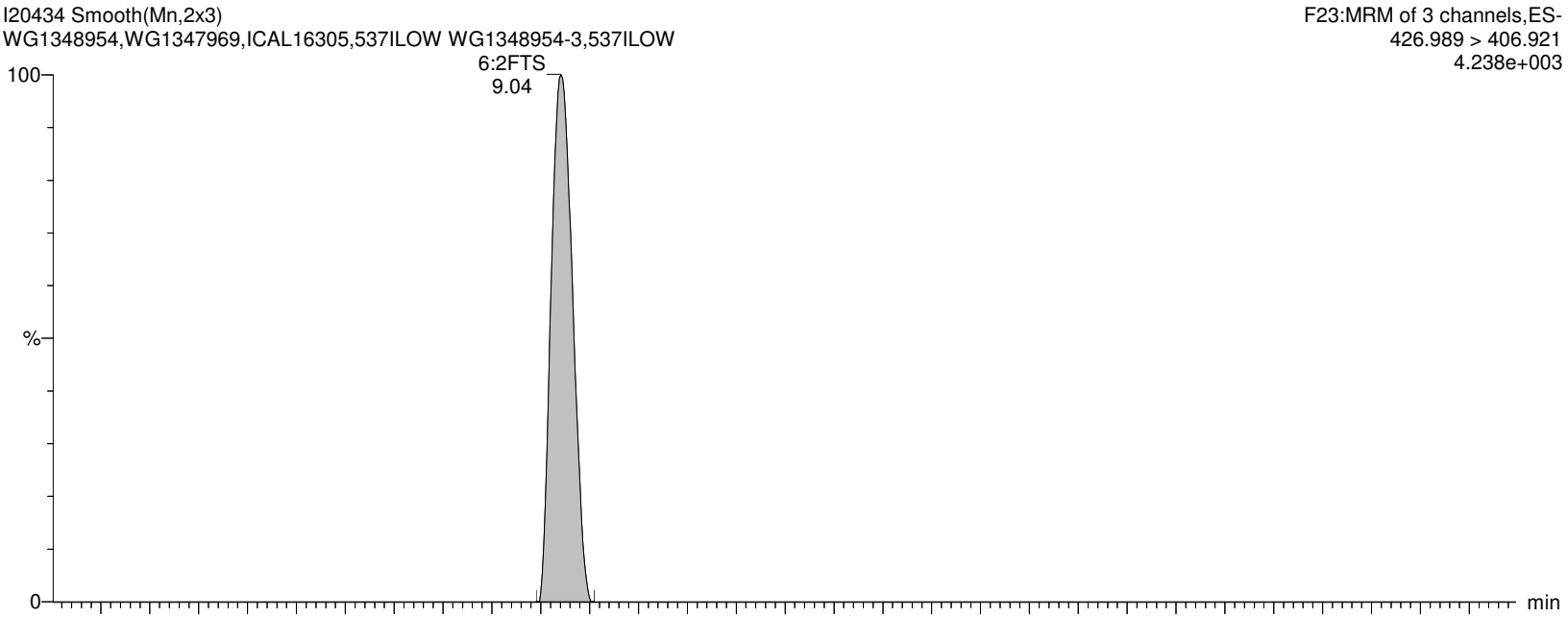

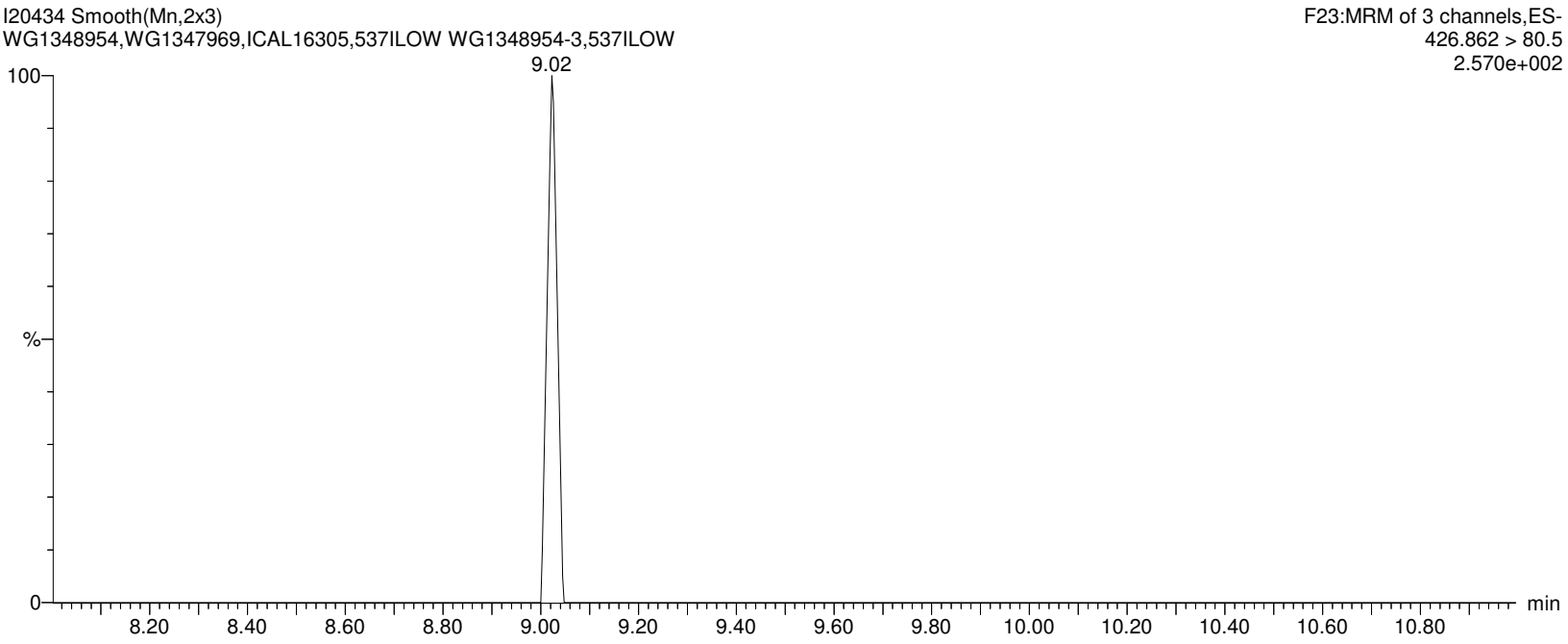

all concentration units in (ng/mL)

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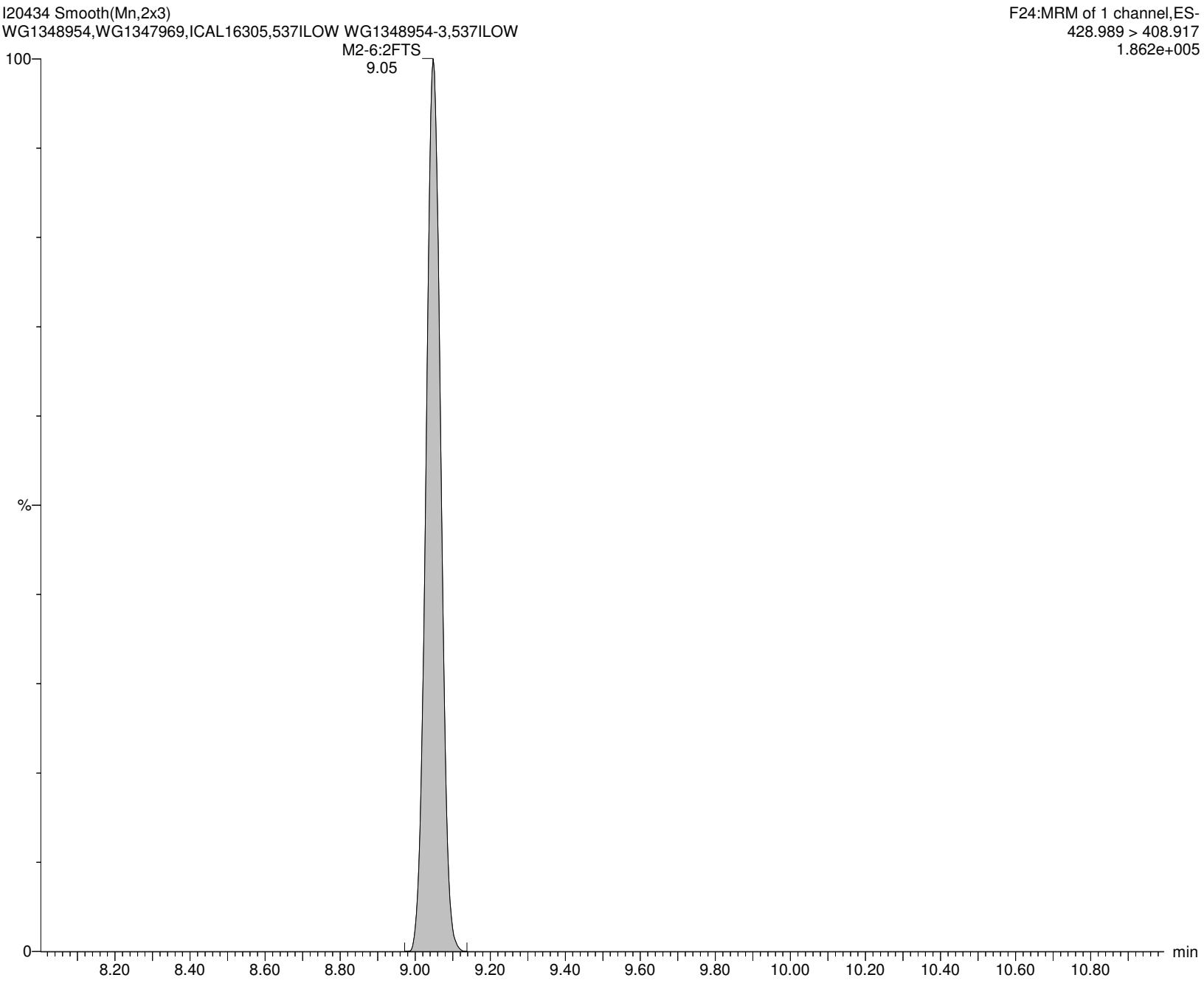

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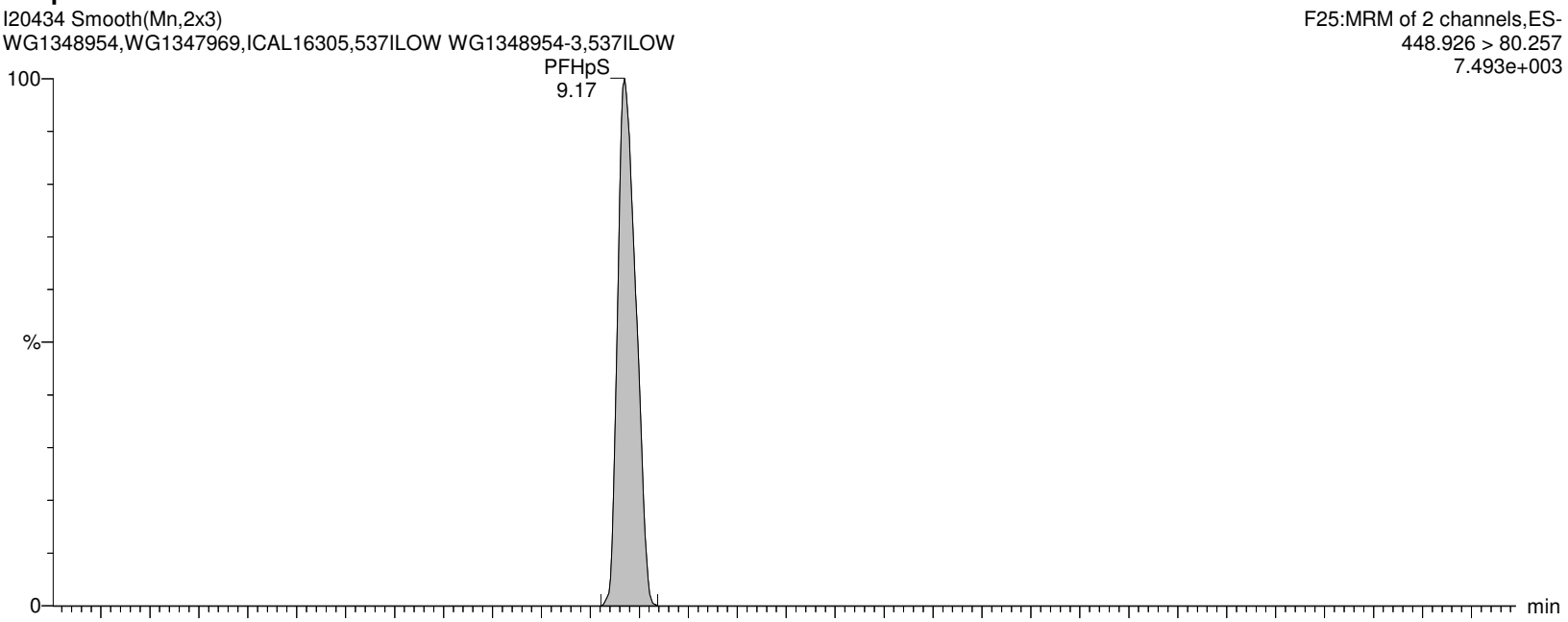

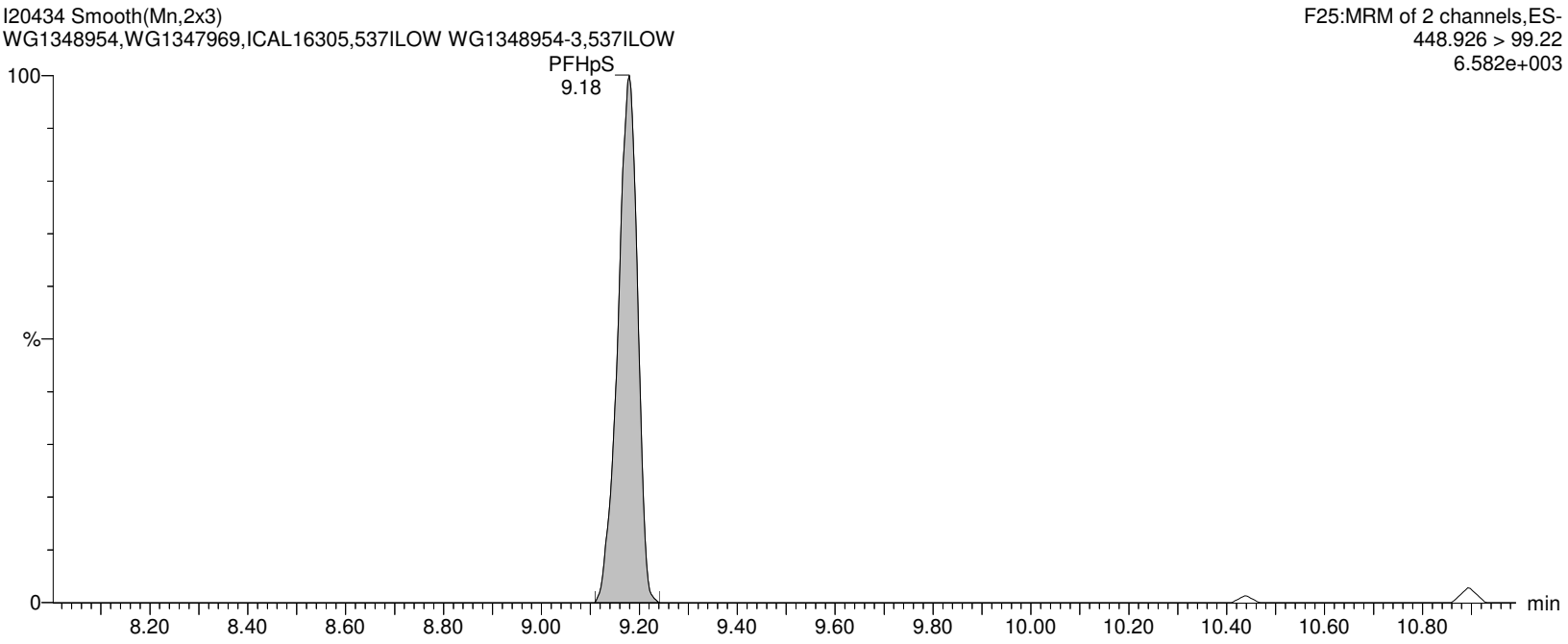

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954B.qld
Last Altered: Wednesday, March 11, 2020 19:42:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:41:27 Eastern Daylight Time

Name: I20434
ID: WG1348954-3,537ILOW
Date: 10-Mar-2020
Time: 21:04:42
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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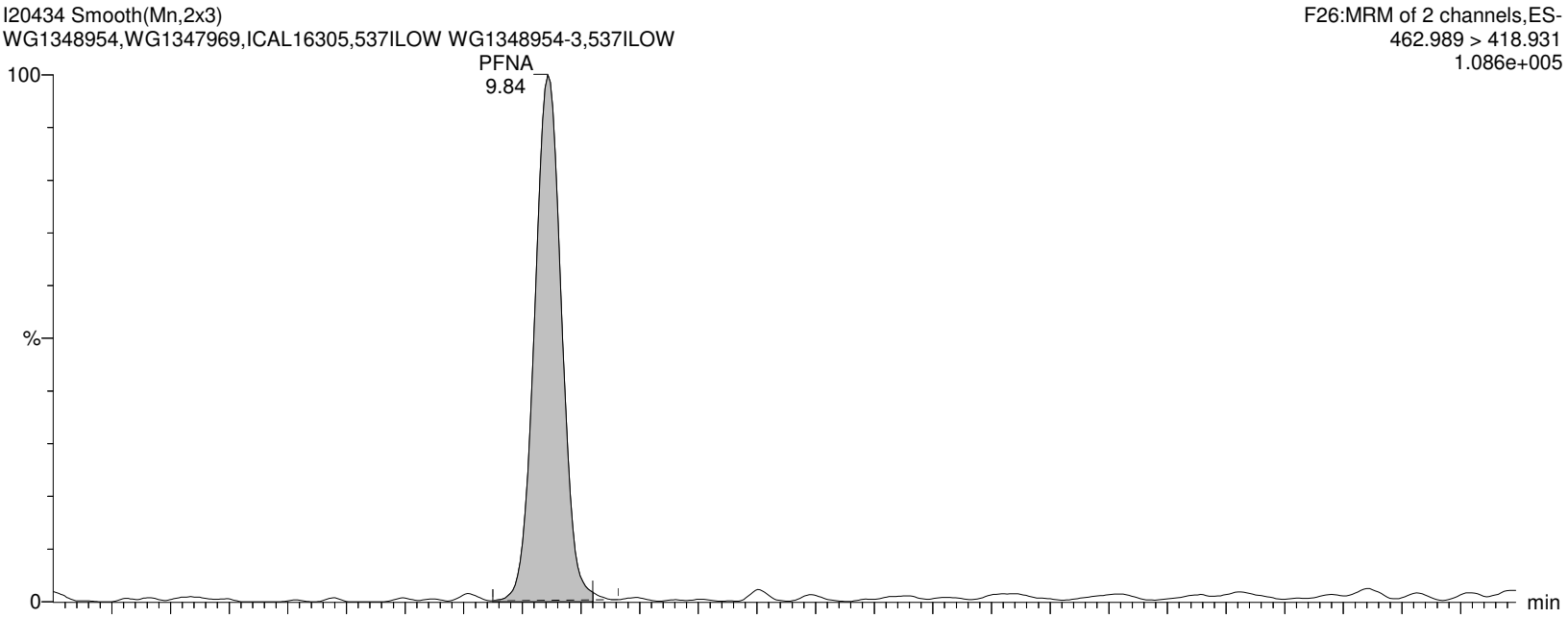

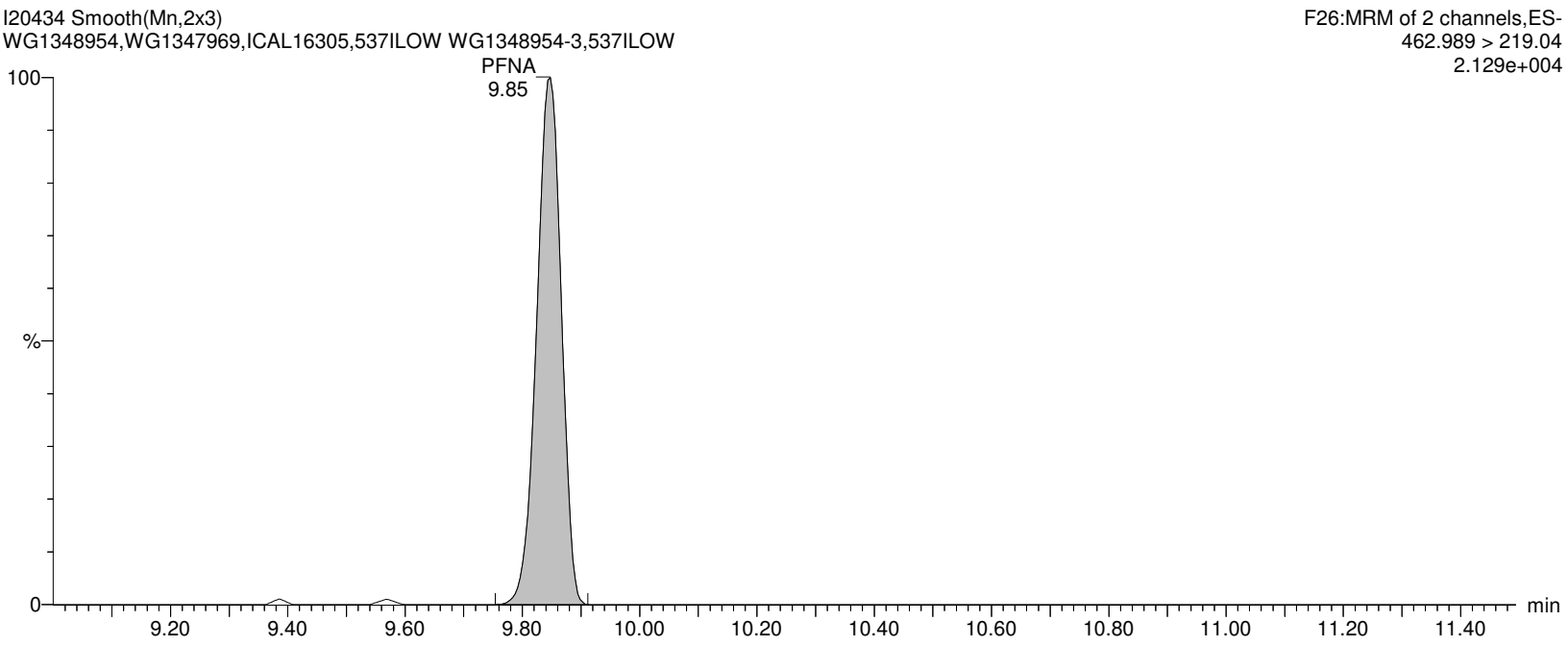

all concentration units in (ng/mL)

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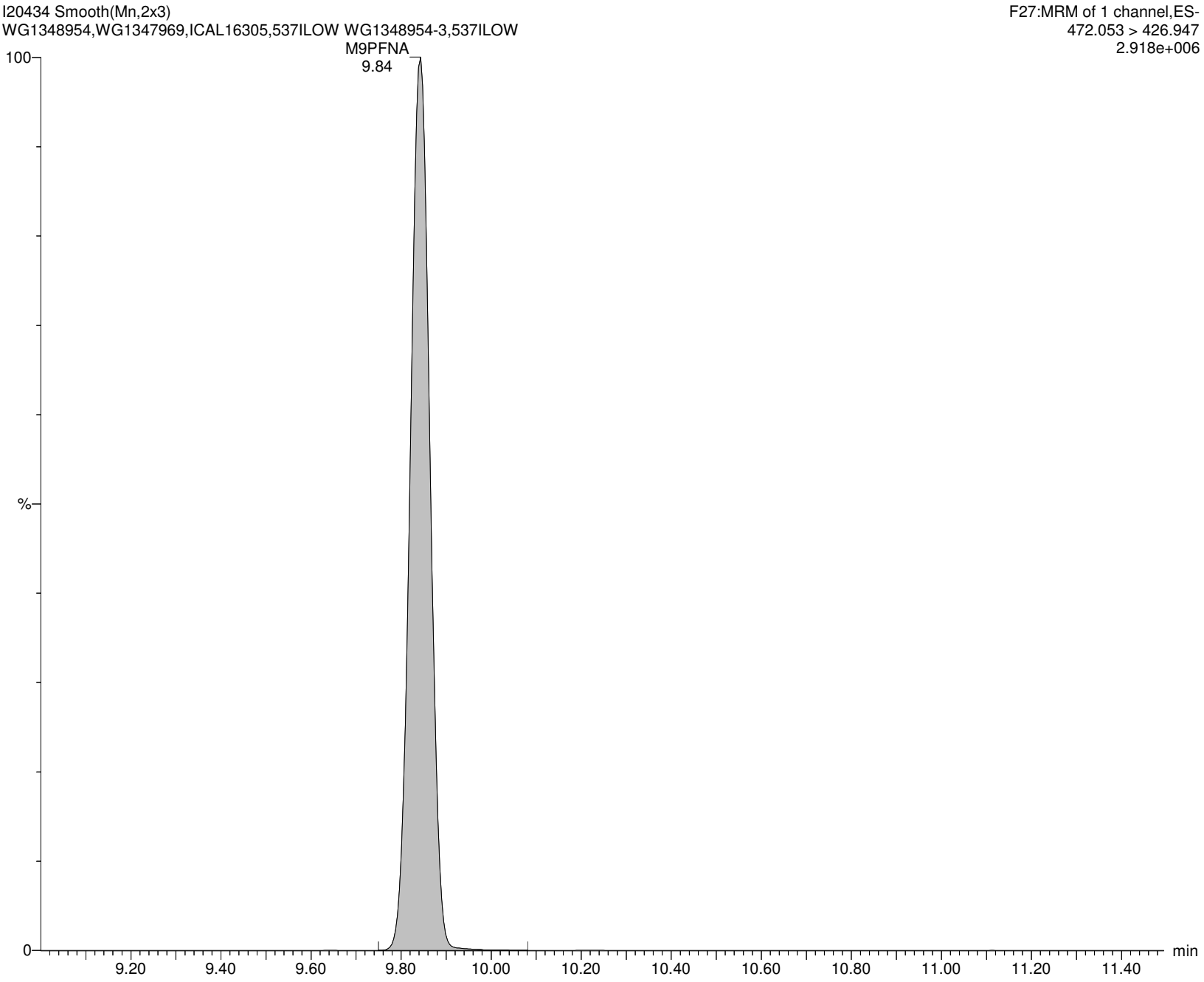

all concentration units in (ng/mL)

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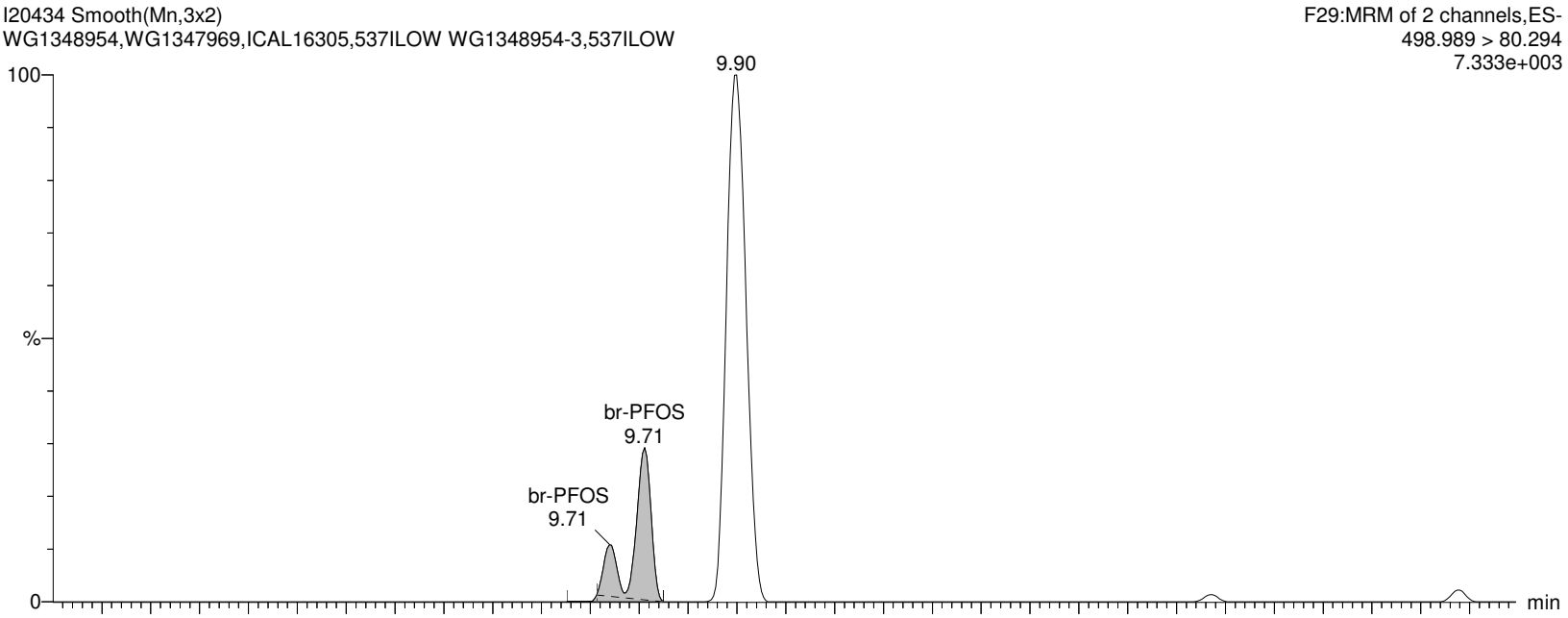

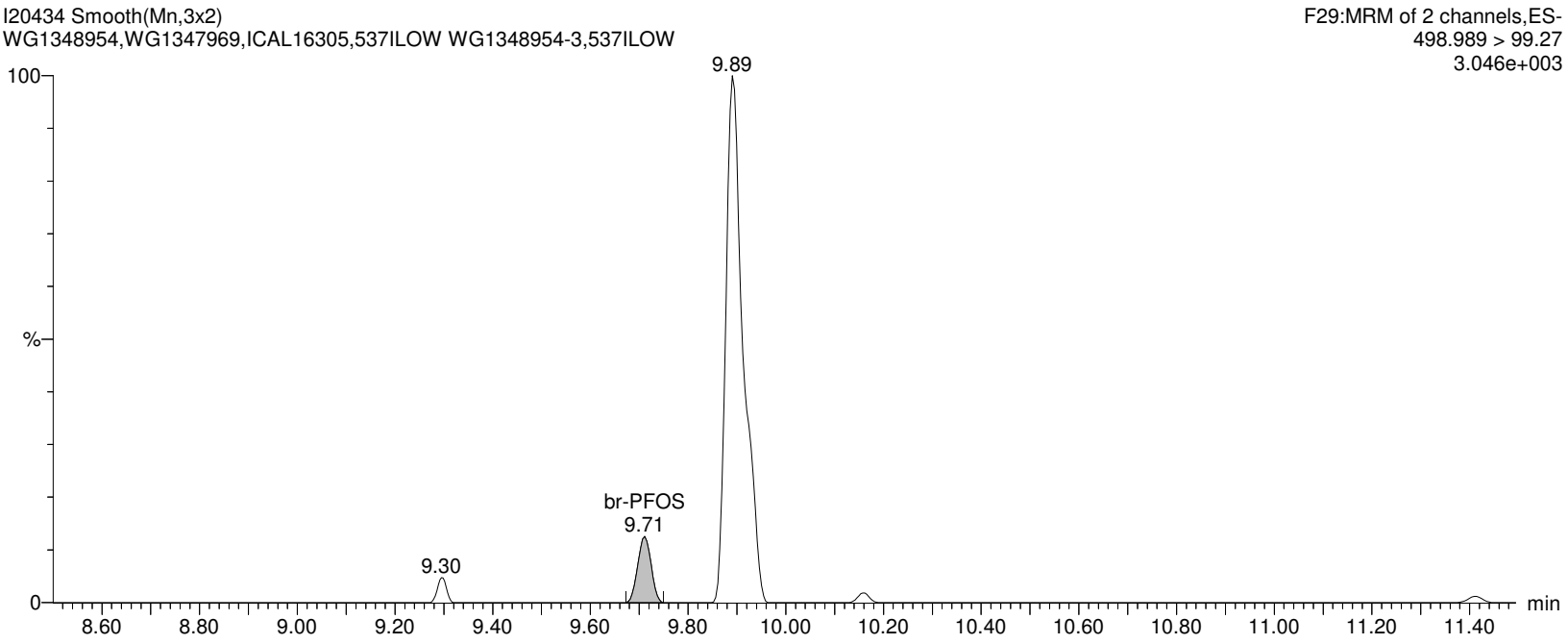

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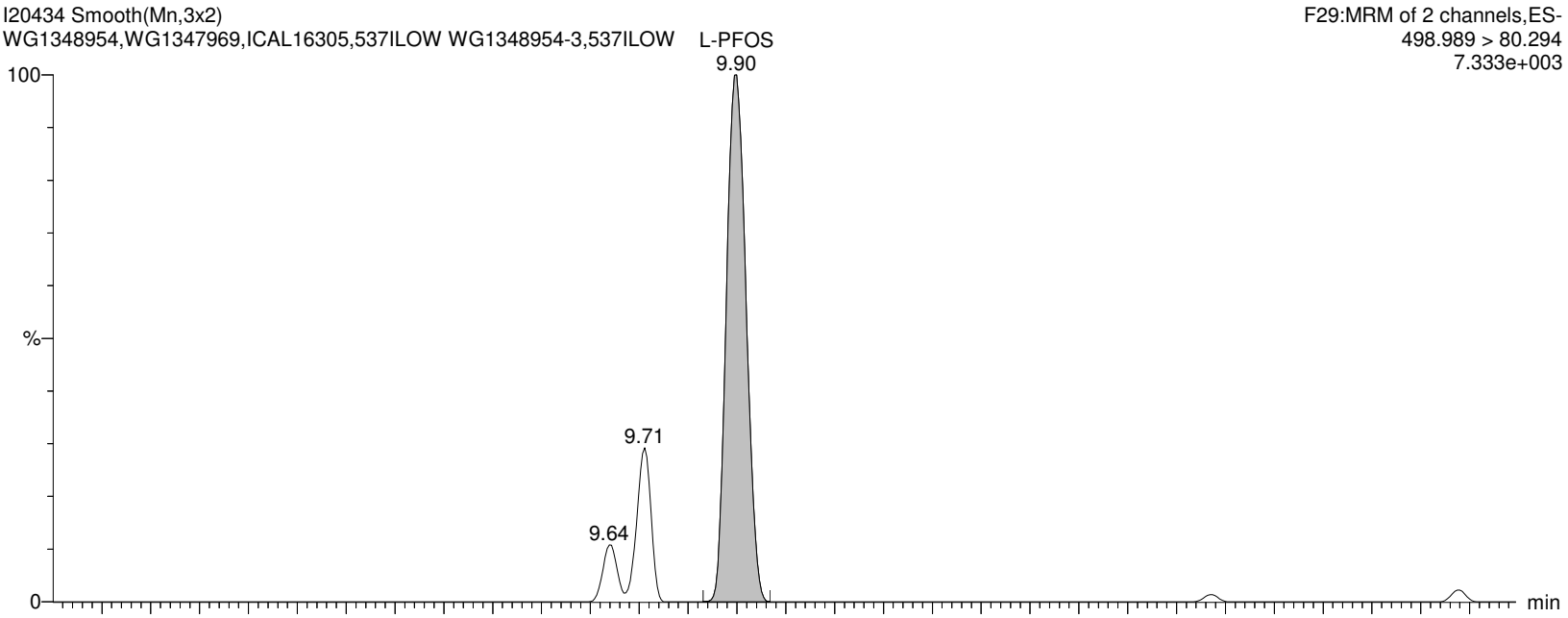

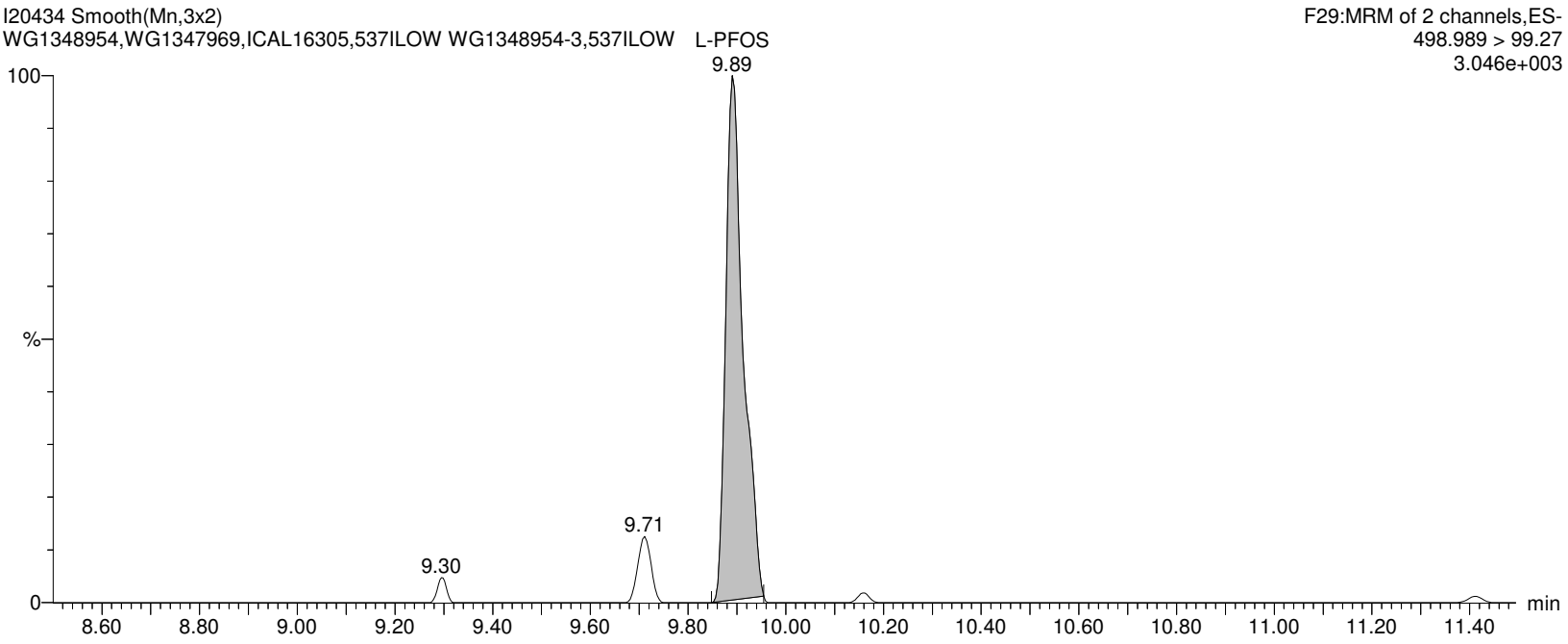

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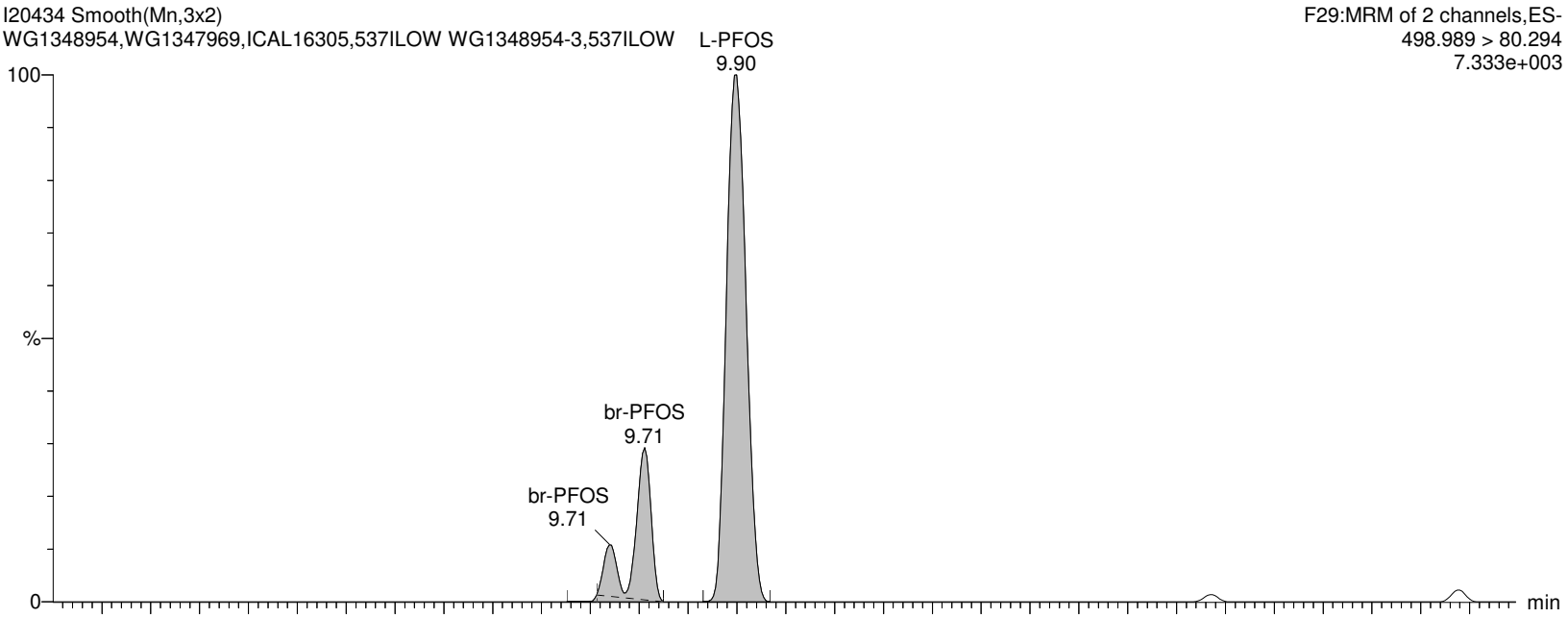

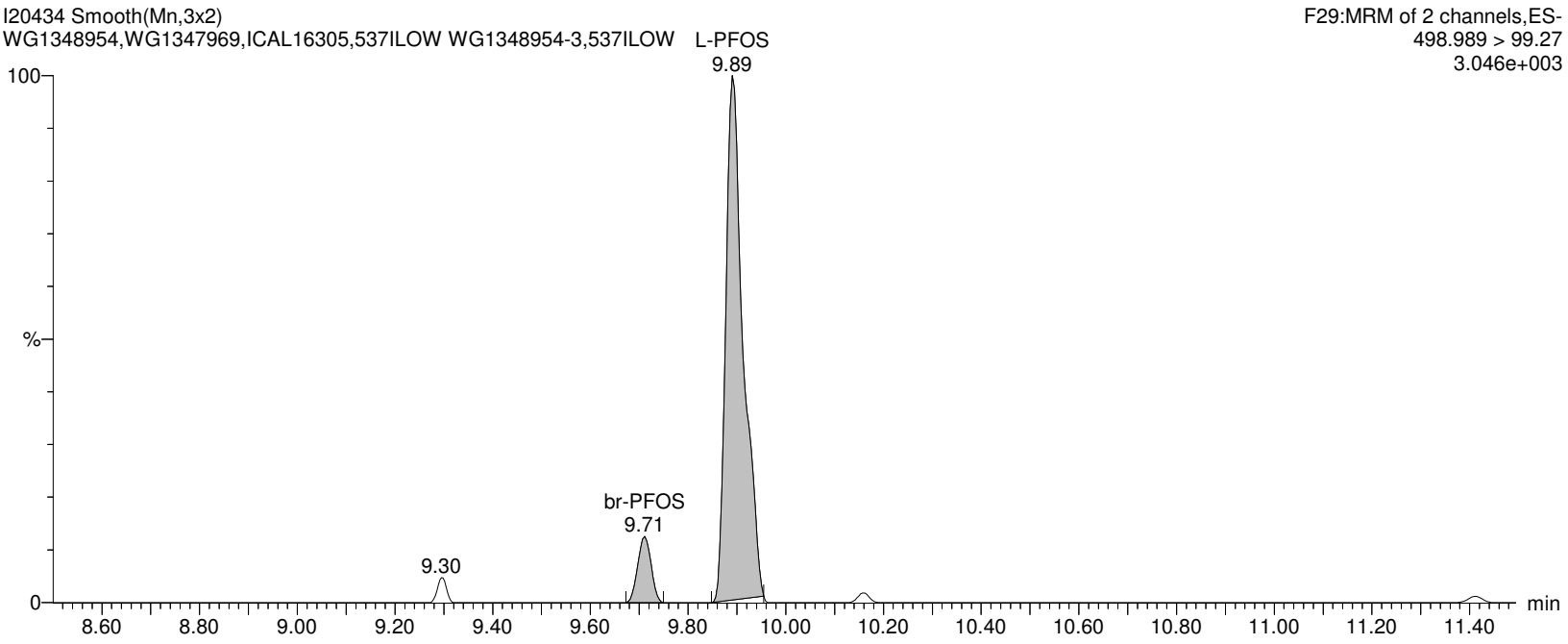

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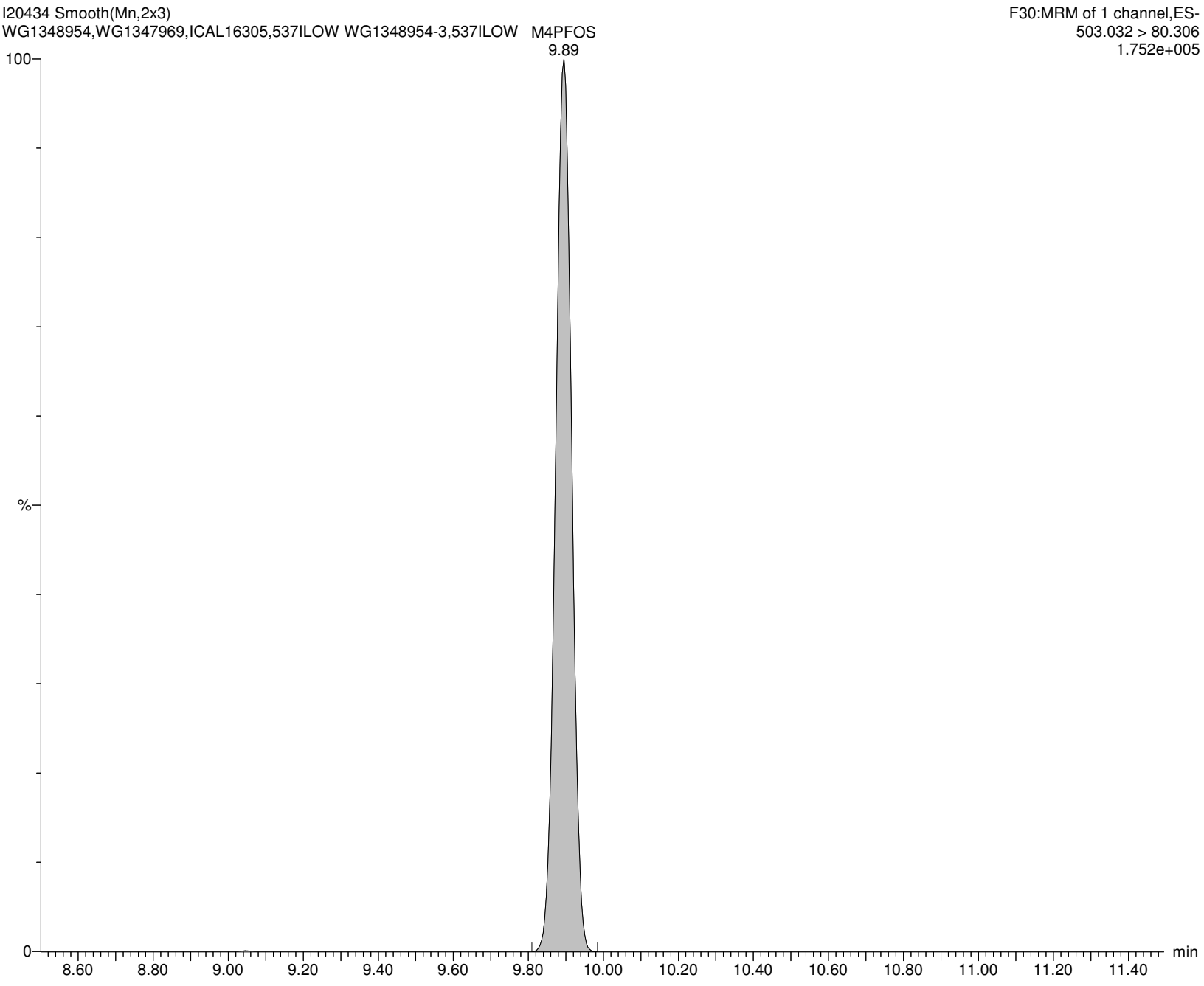

all concentration units in (ng/mL)

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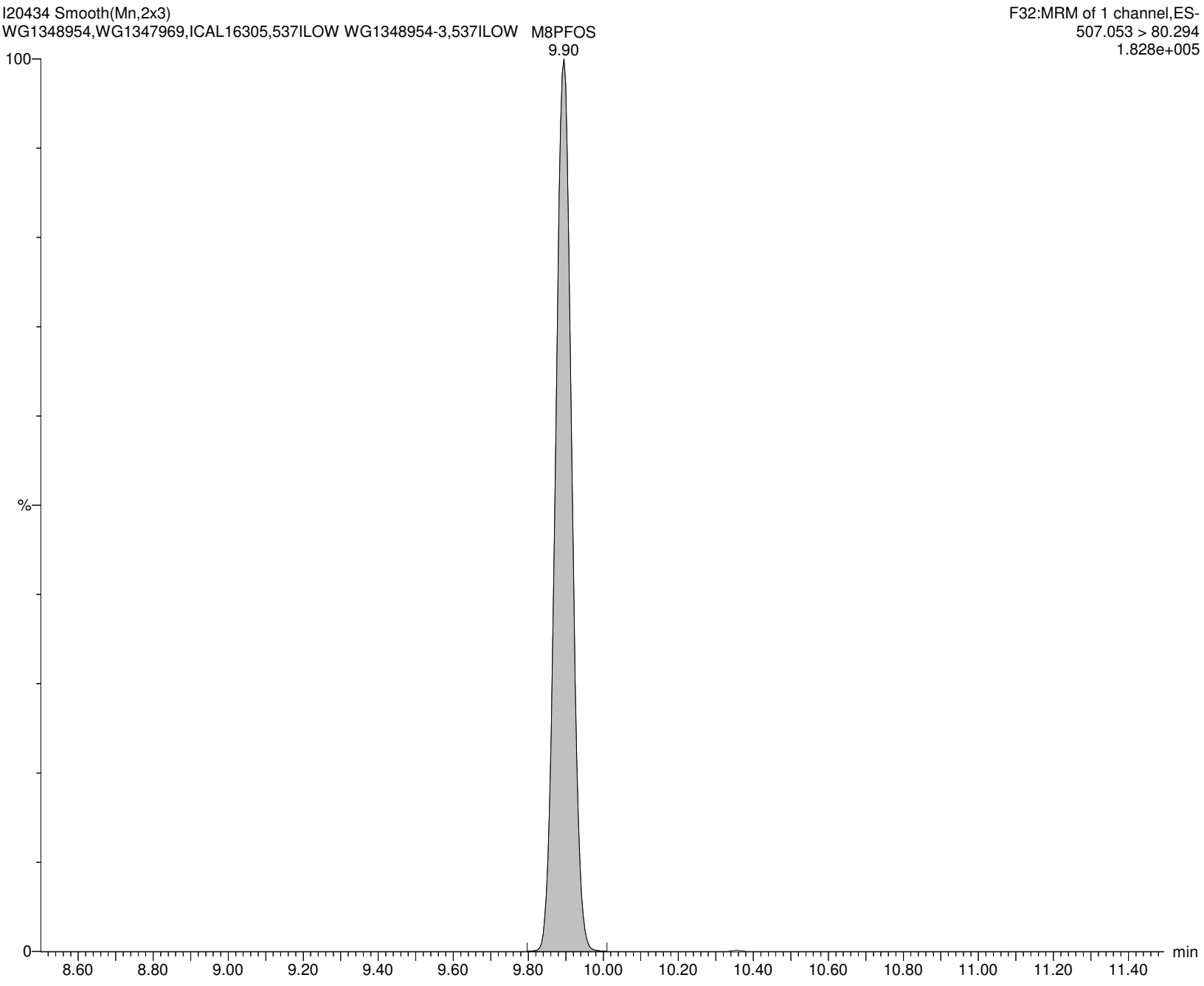

all concentration units in (ng/mL)

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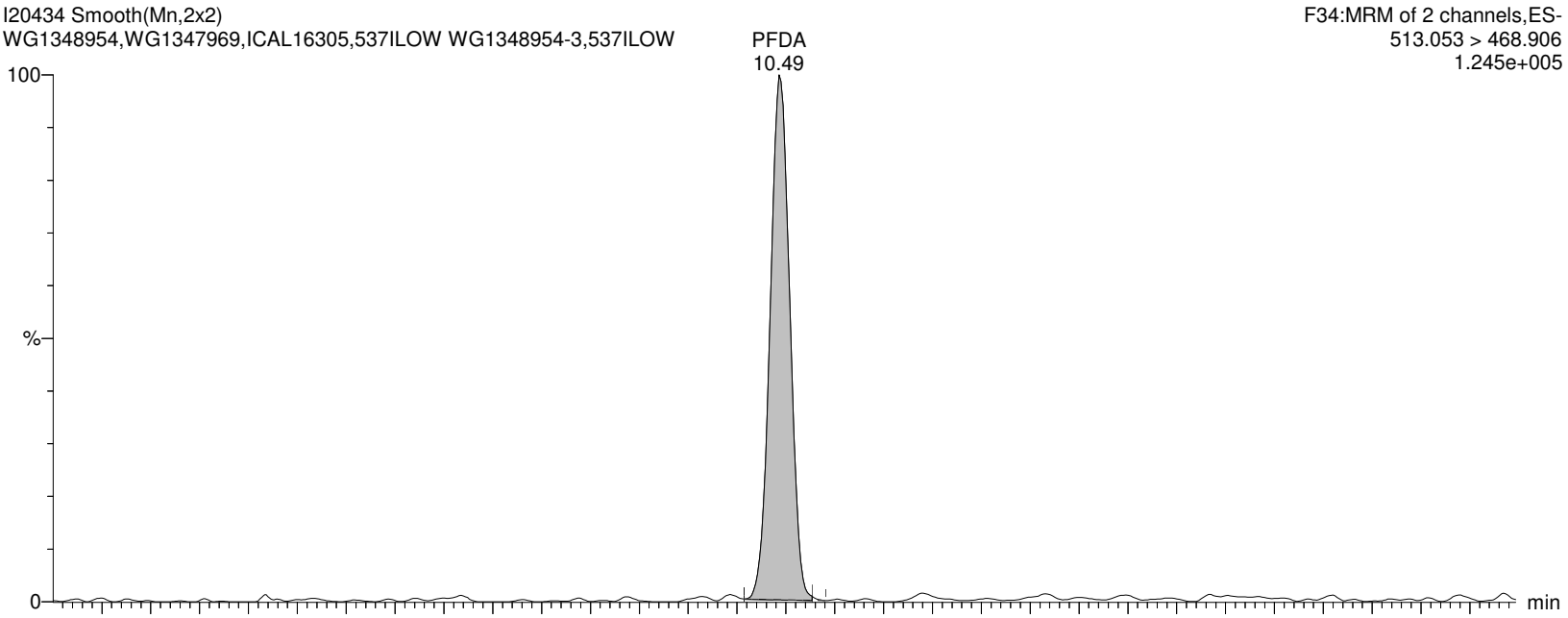

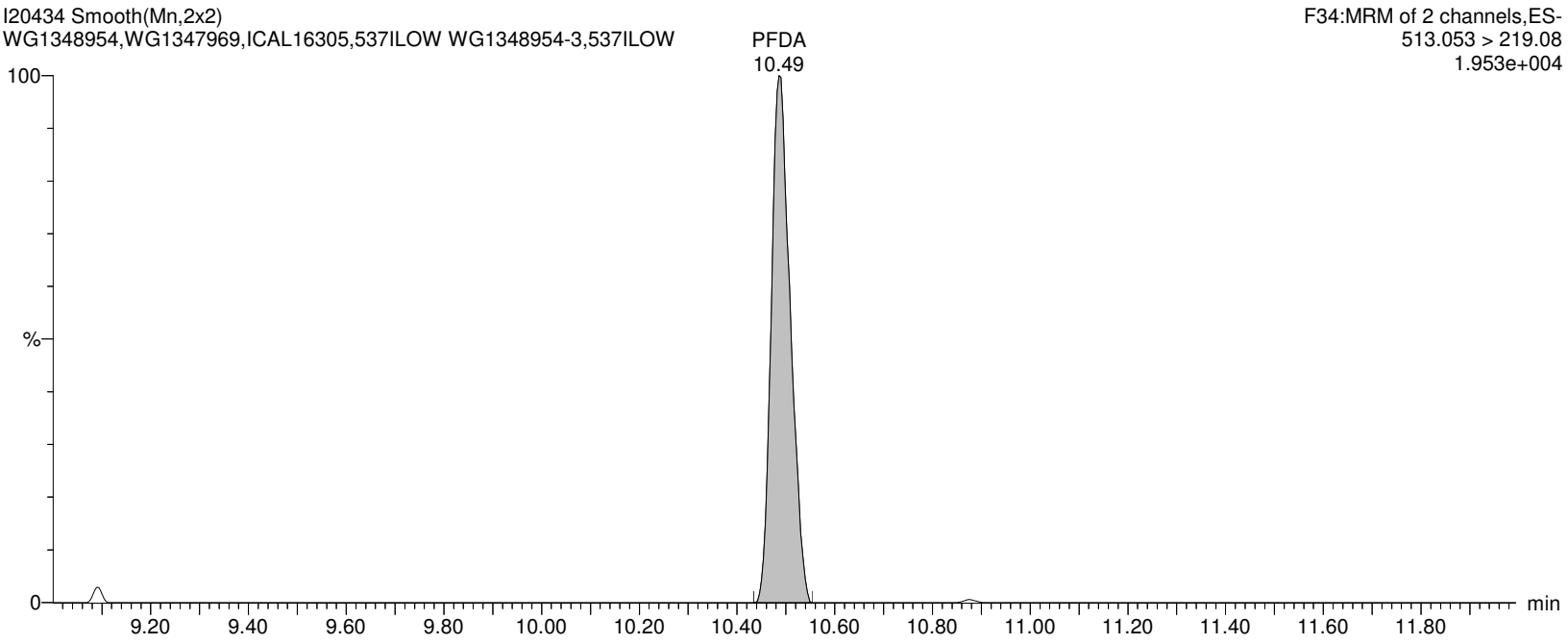

all concentration units in (ng/mL)

Alpha Analytical Inc.
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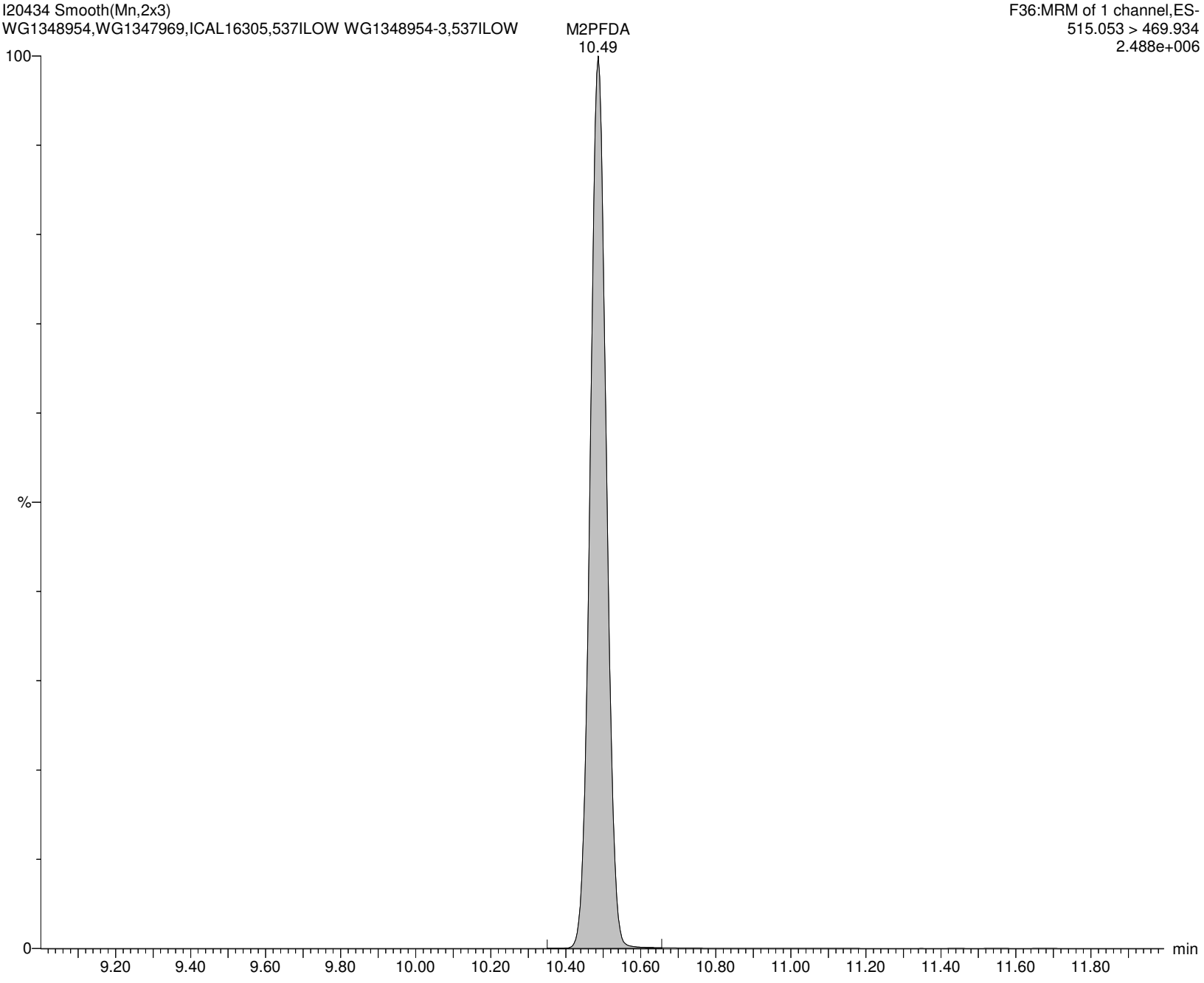

all concentration units in (ng/mL)

Alpha Analytical Inc.
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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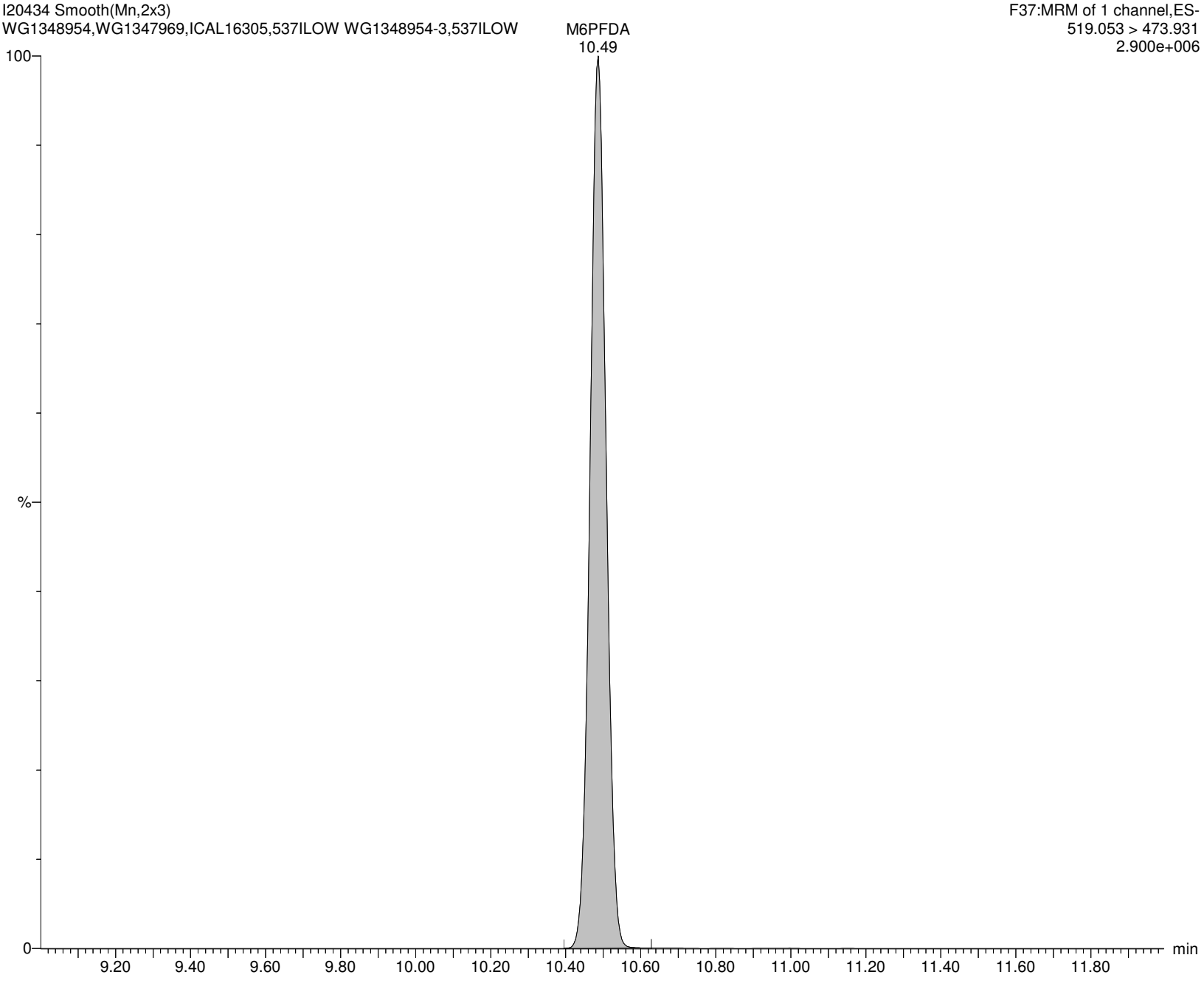

all concentration units in (ng/mL)

Alpha Analytical Inc.
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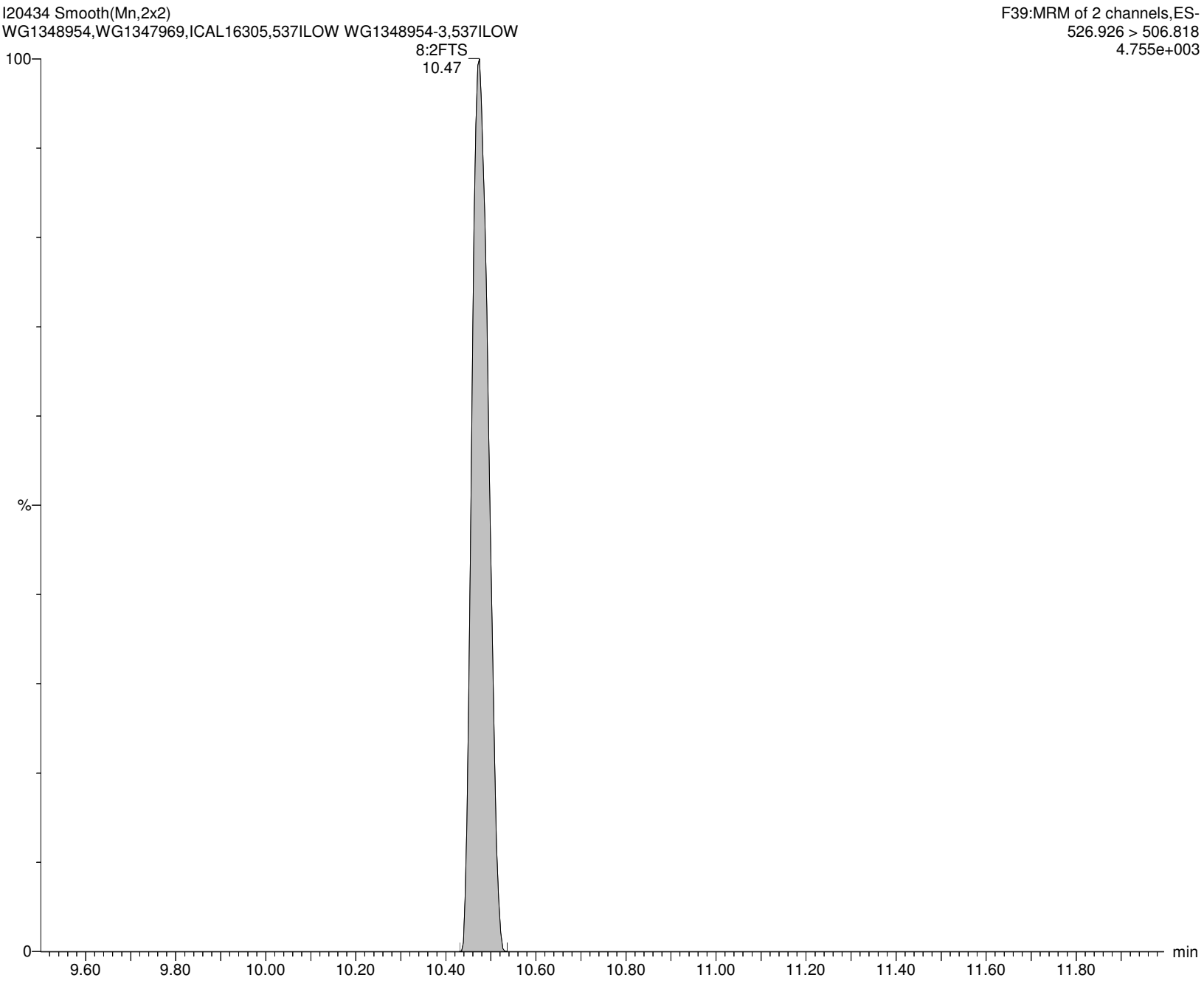

all concentration units in (ng/mL)

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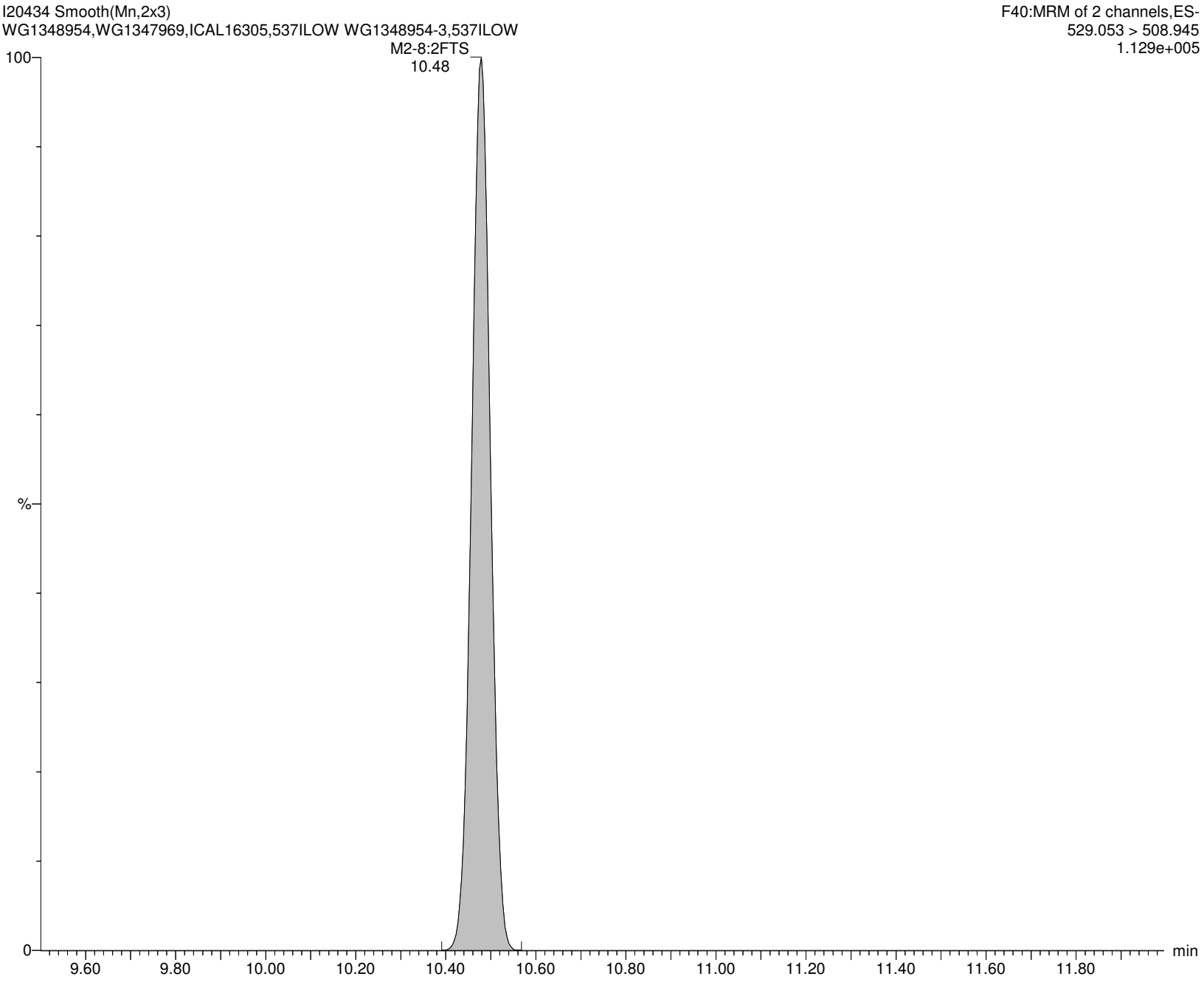

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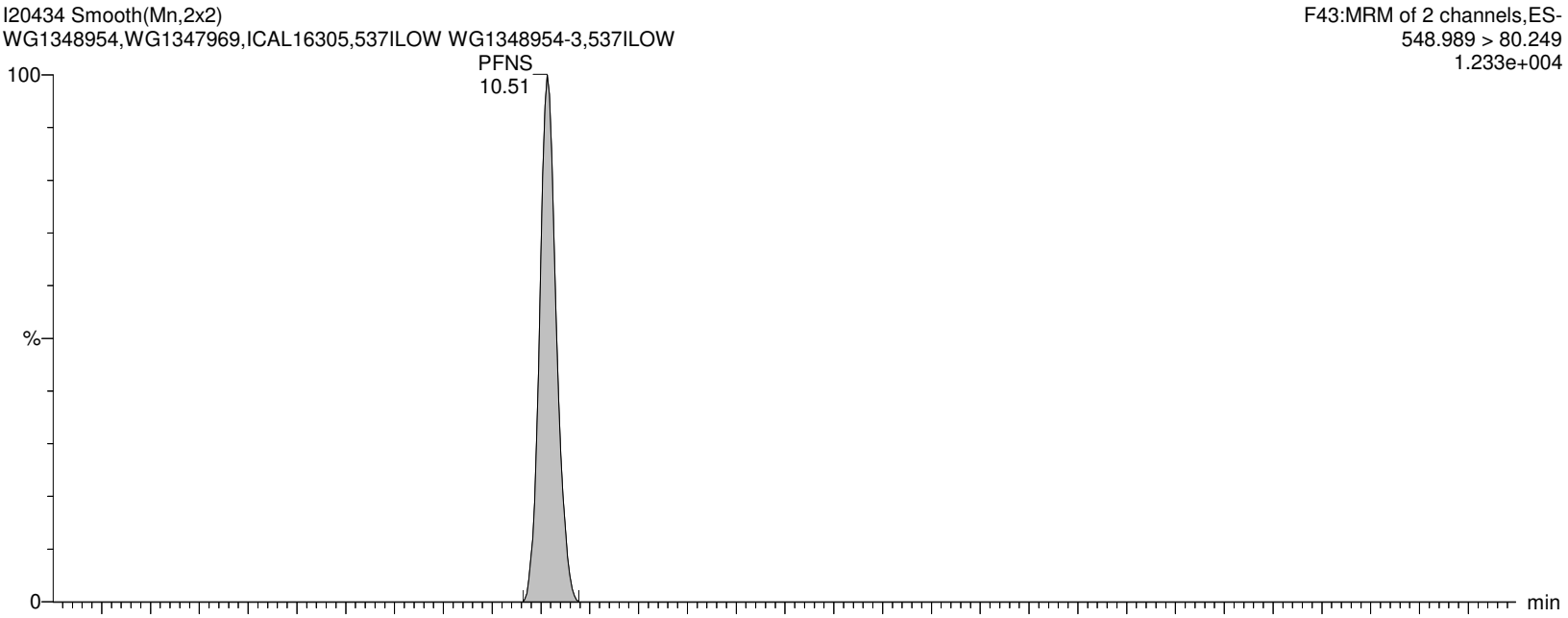

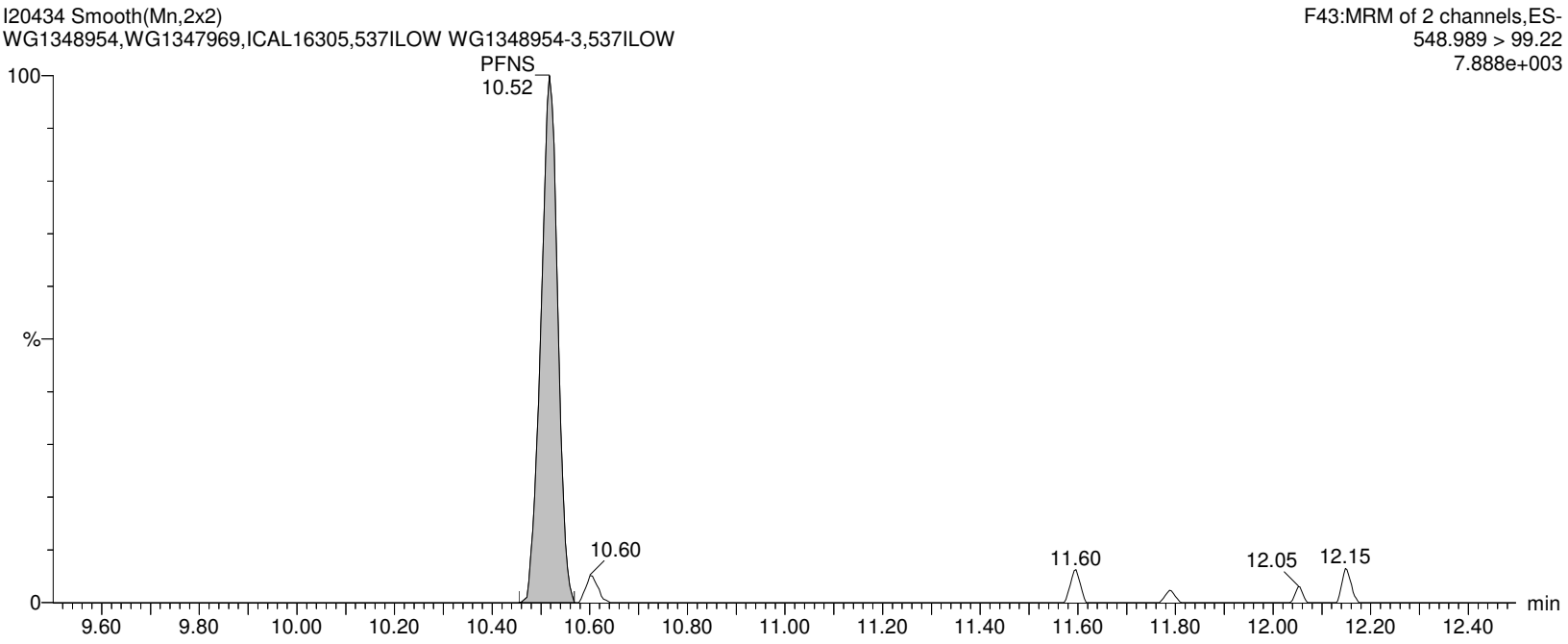

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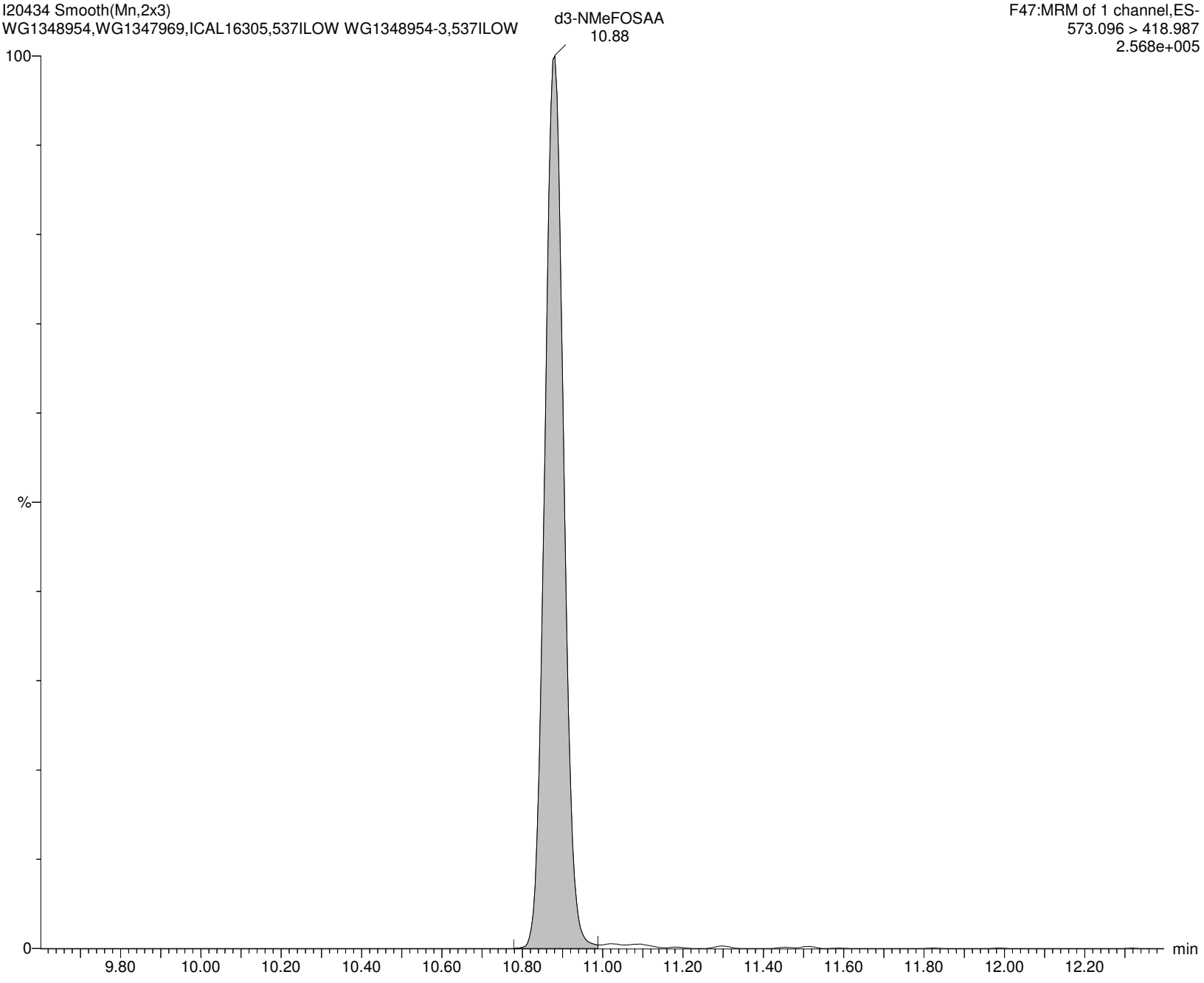

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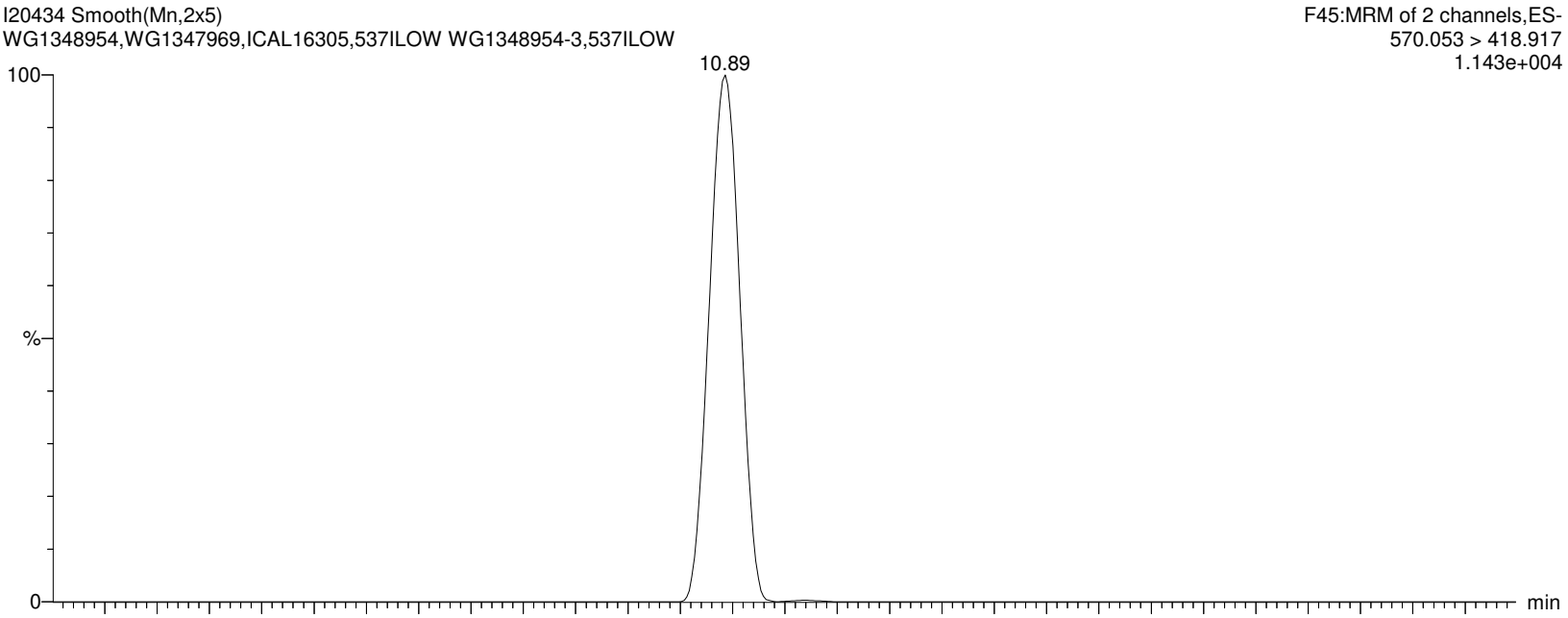

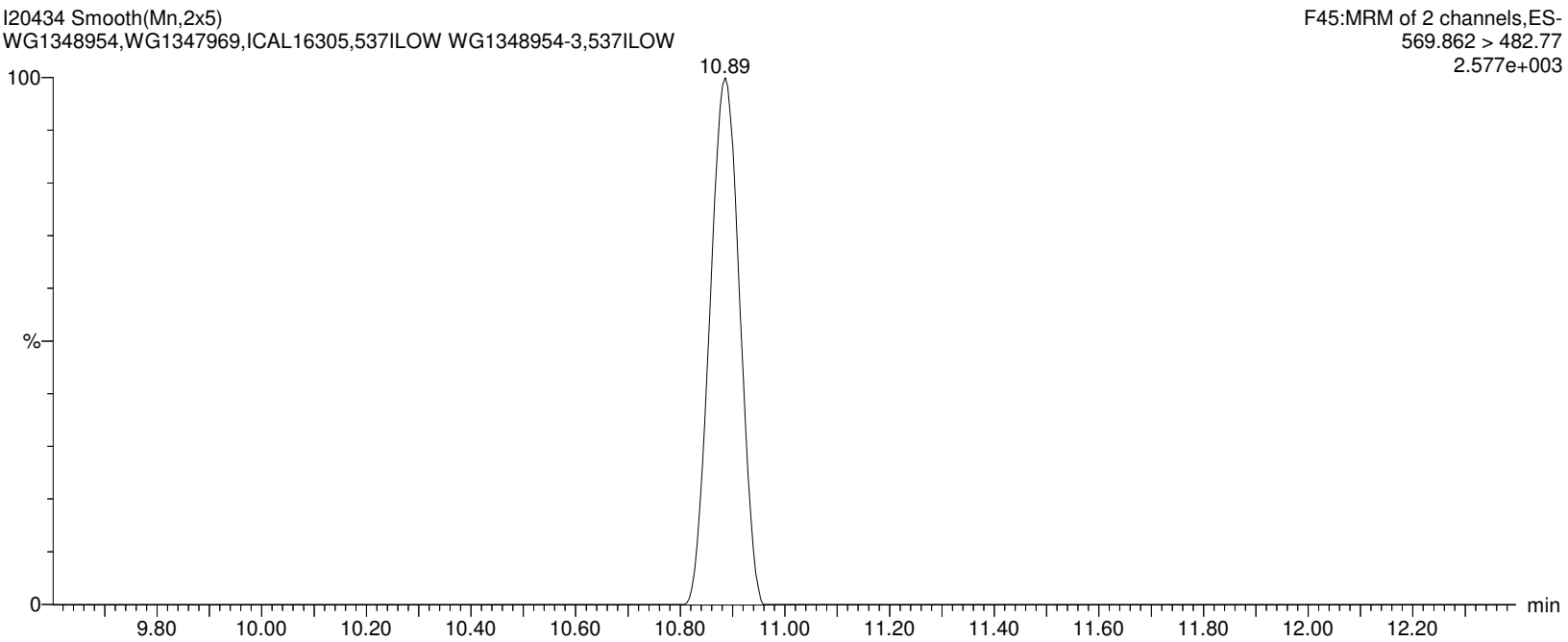

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954B.qld
Last Altered: Wednesday, March 11, 2020 19:42:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:41:27 Eastern Daylight Time

Name: I20434
ID: WG1348954-3,537ILOW
Date: 10-Mar-2020
Time: 21:04:42
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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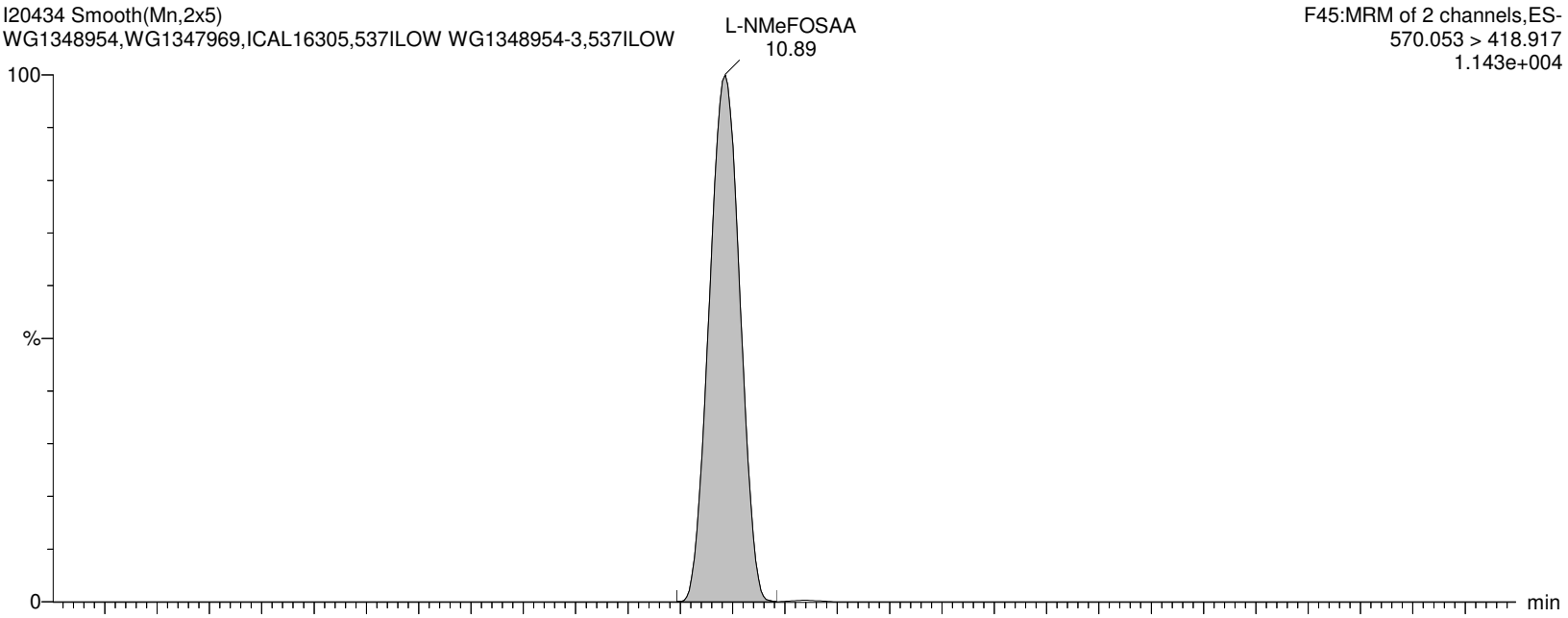

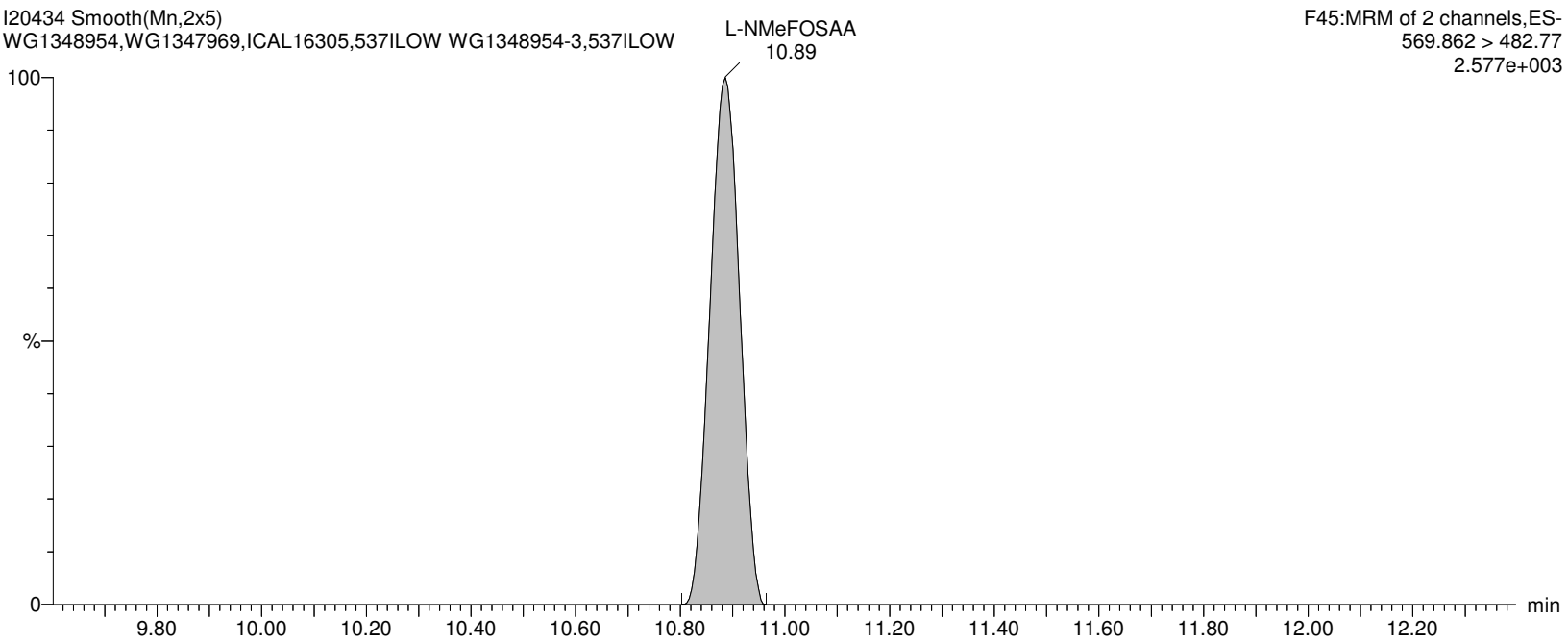

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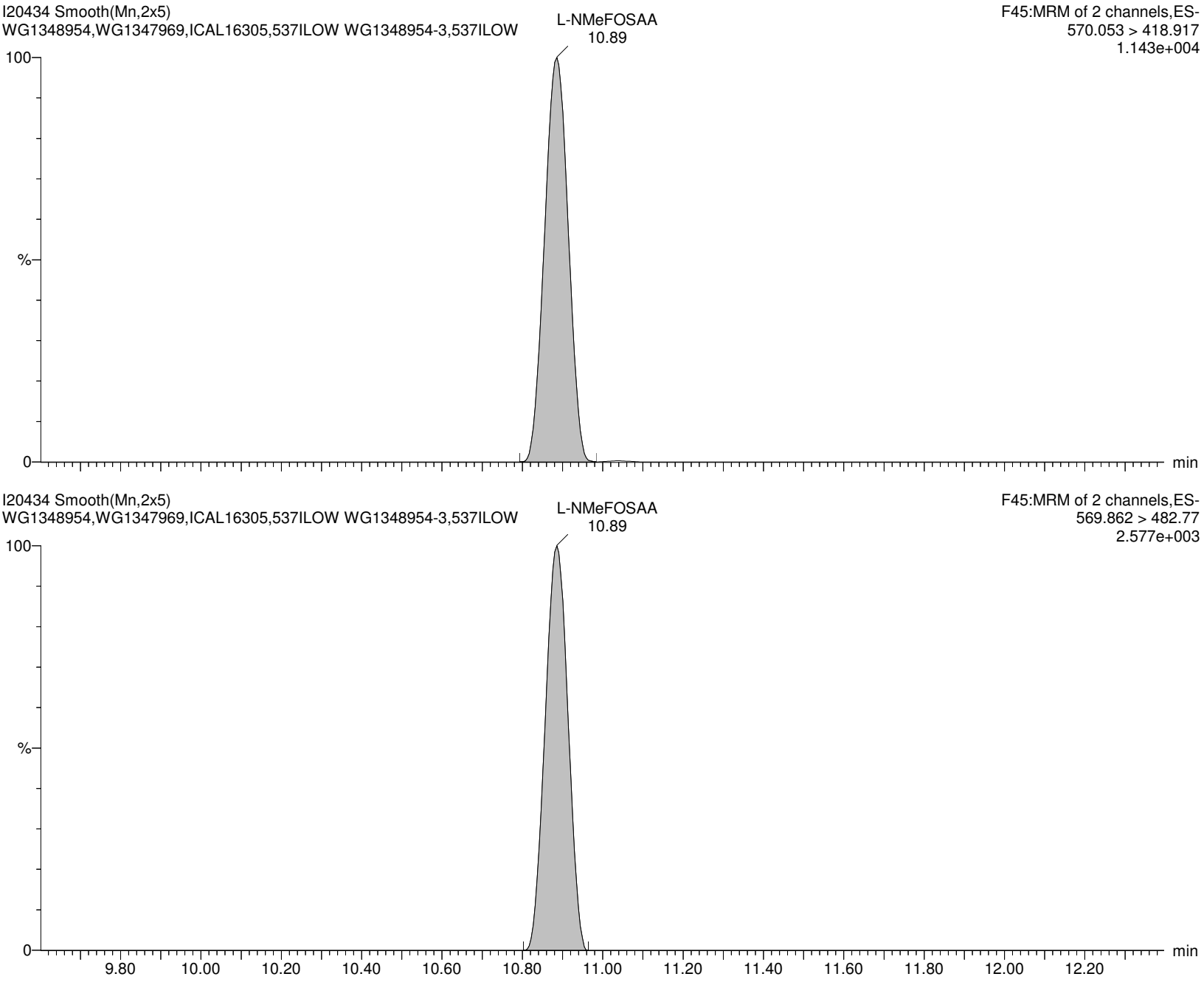

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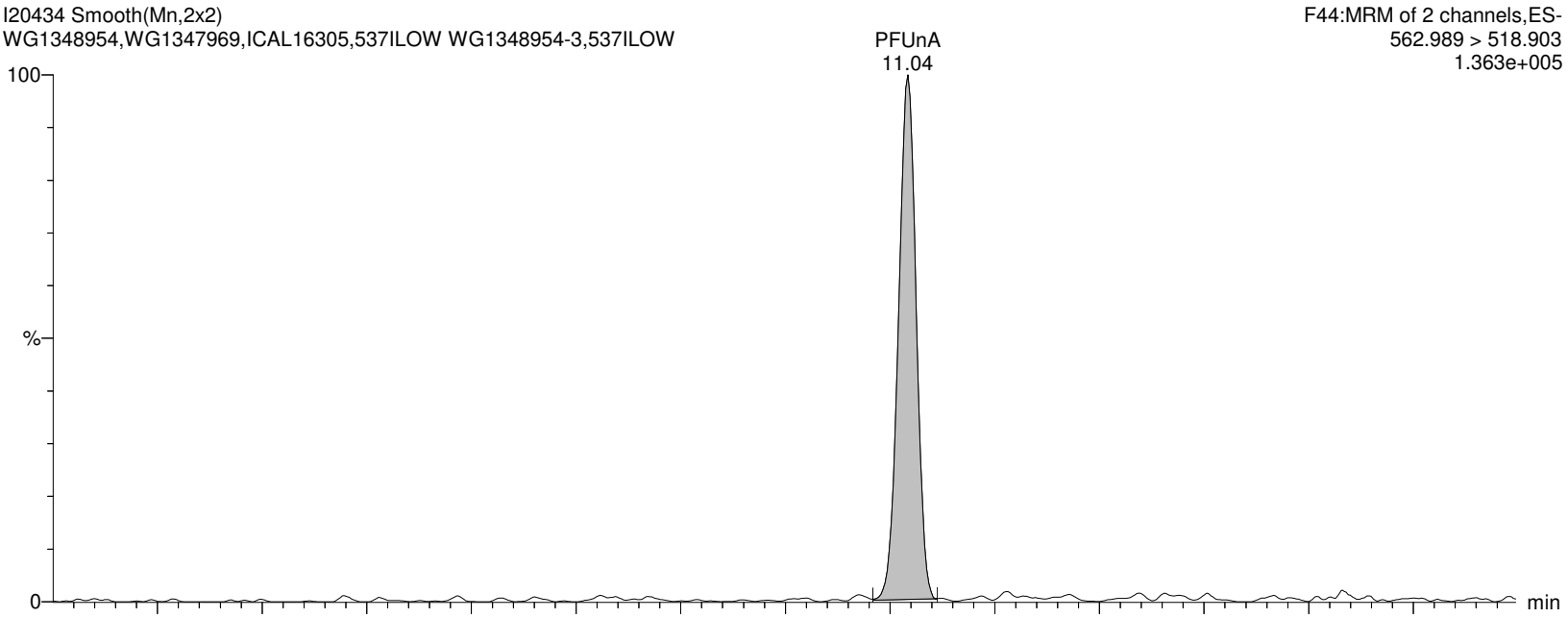

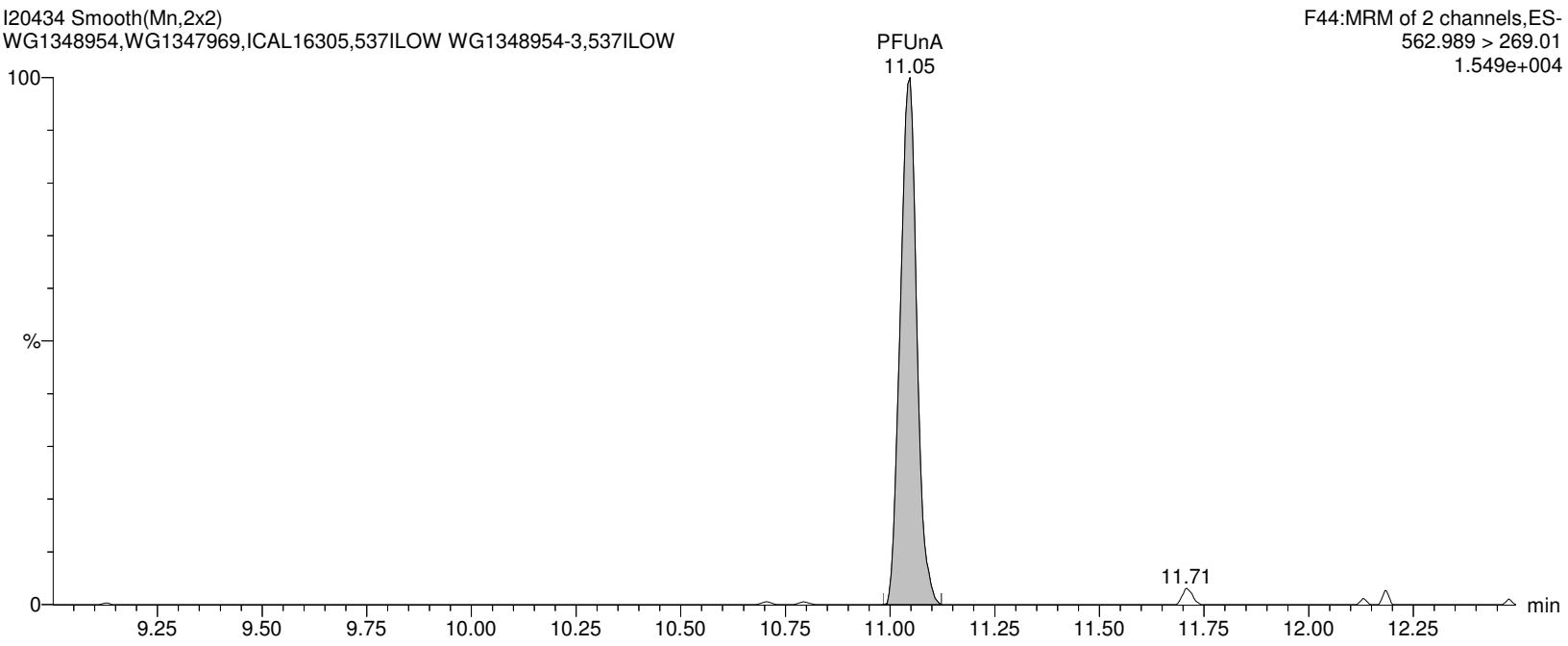

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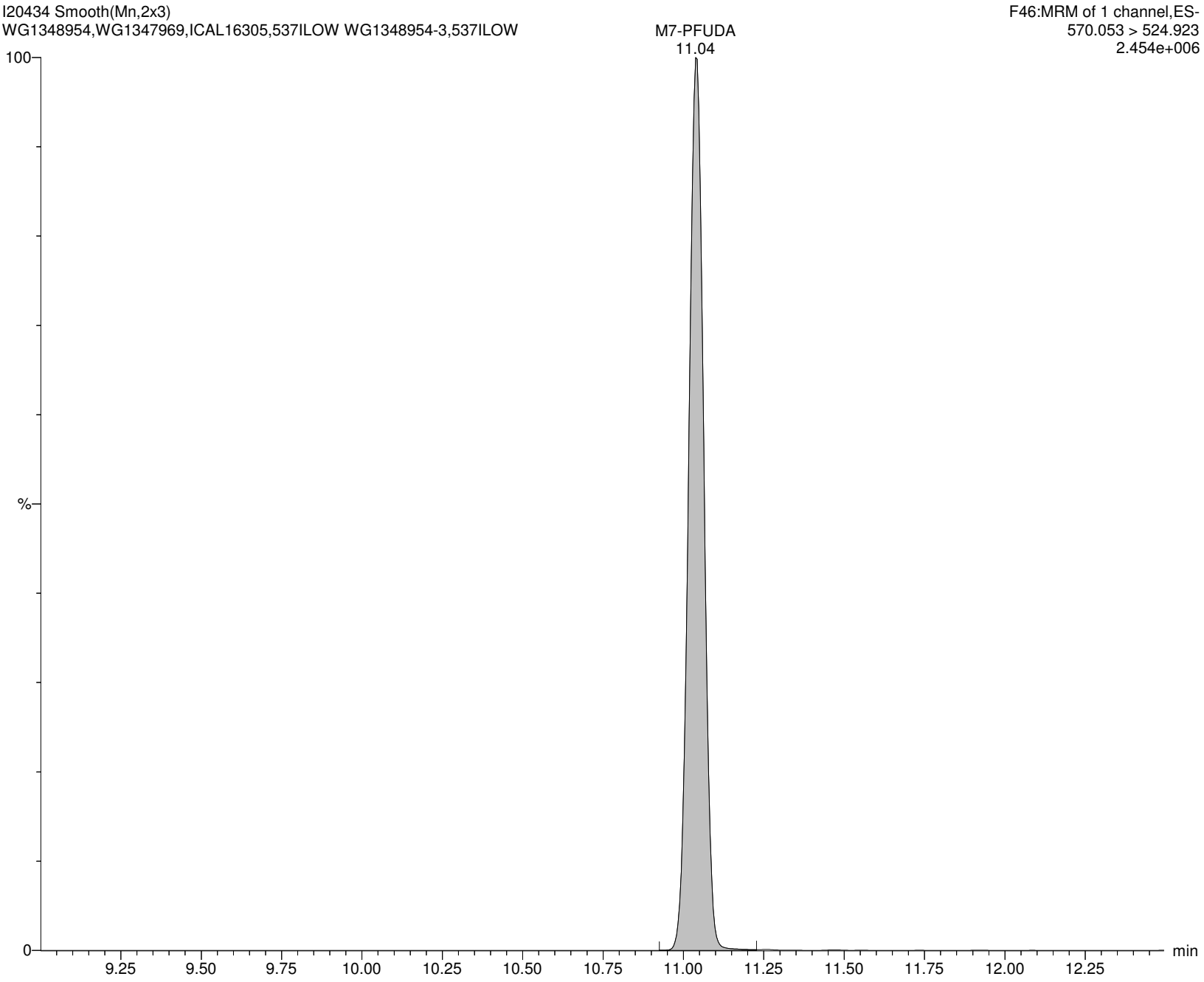

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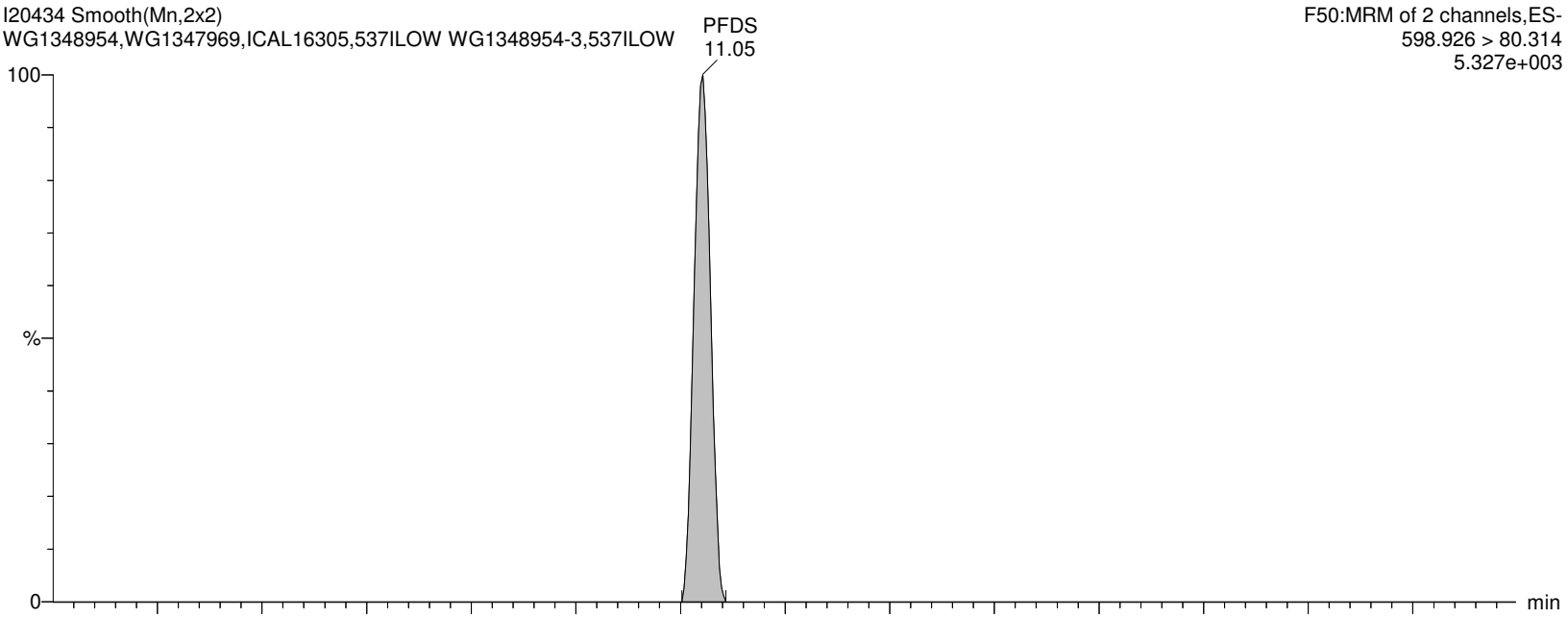

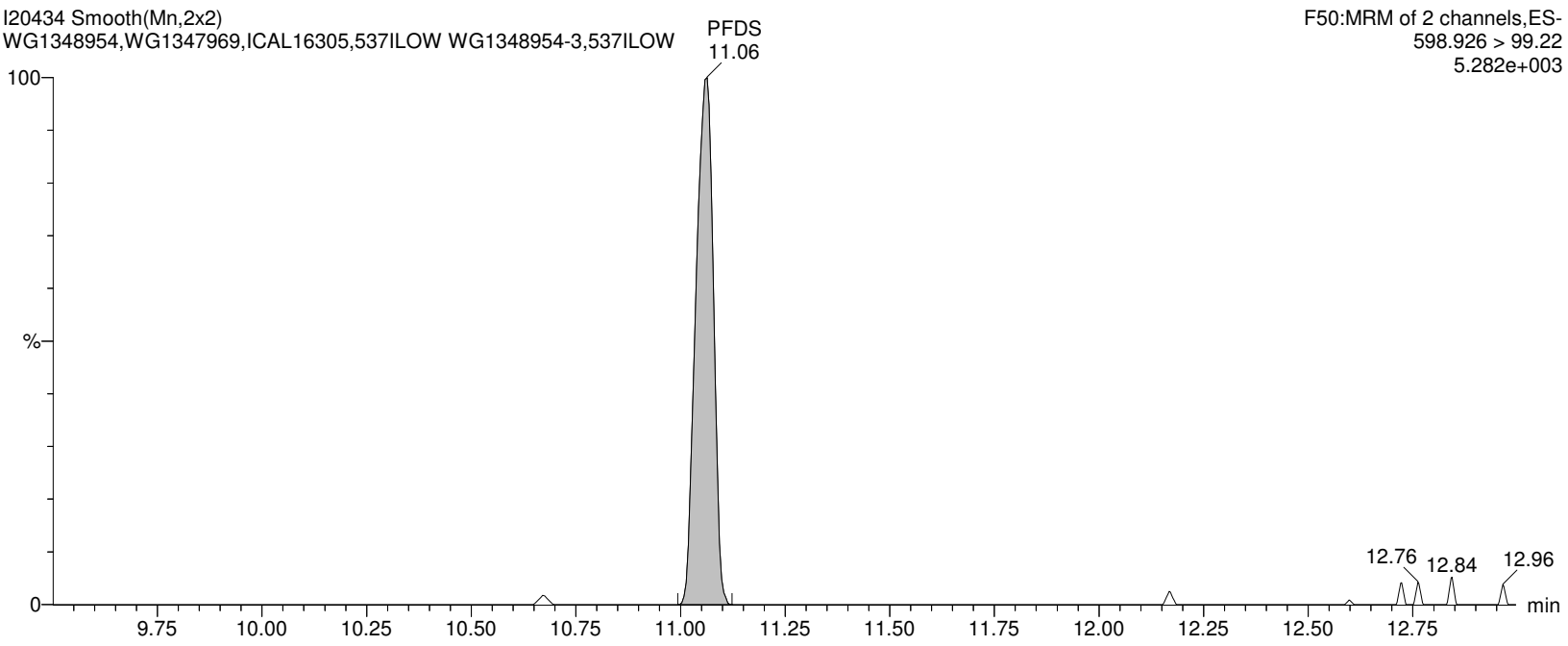

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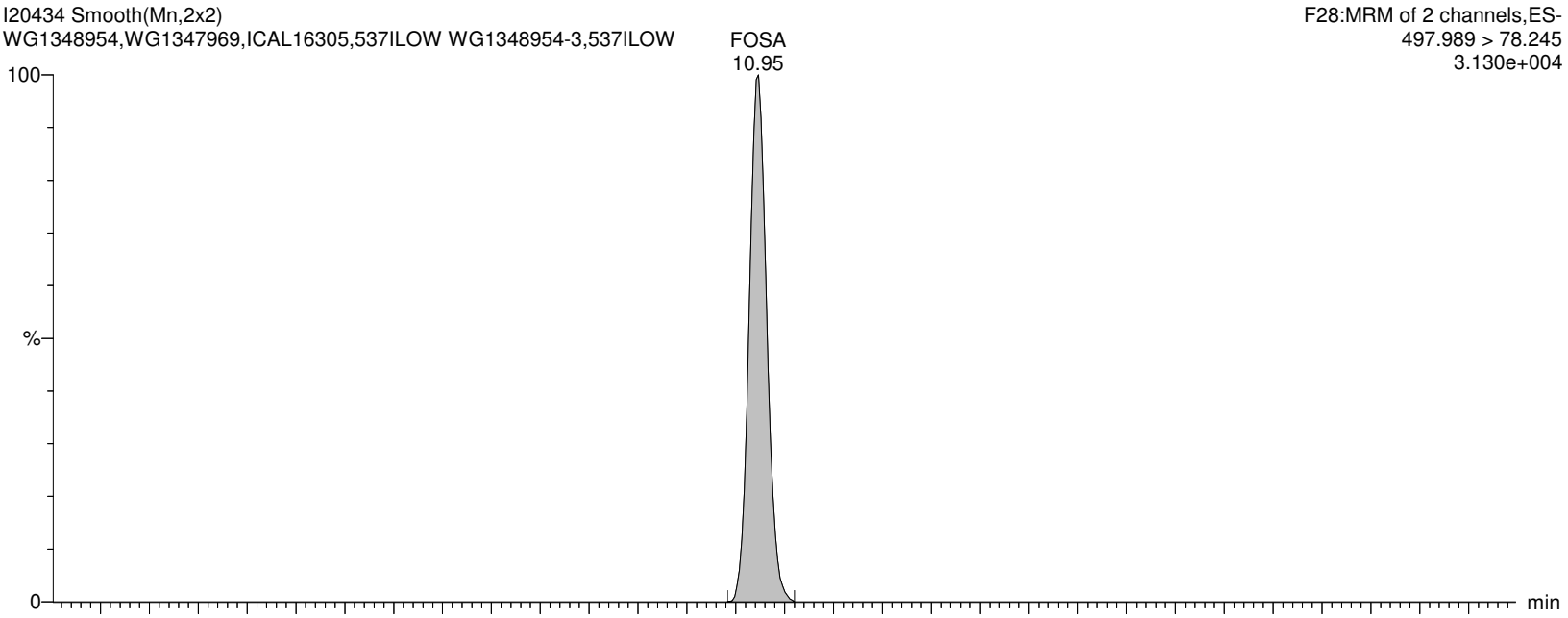

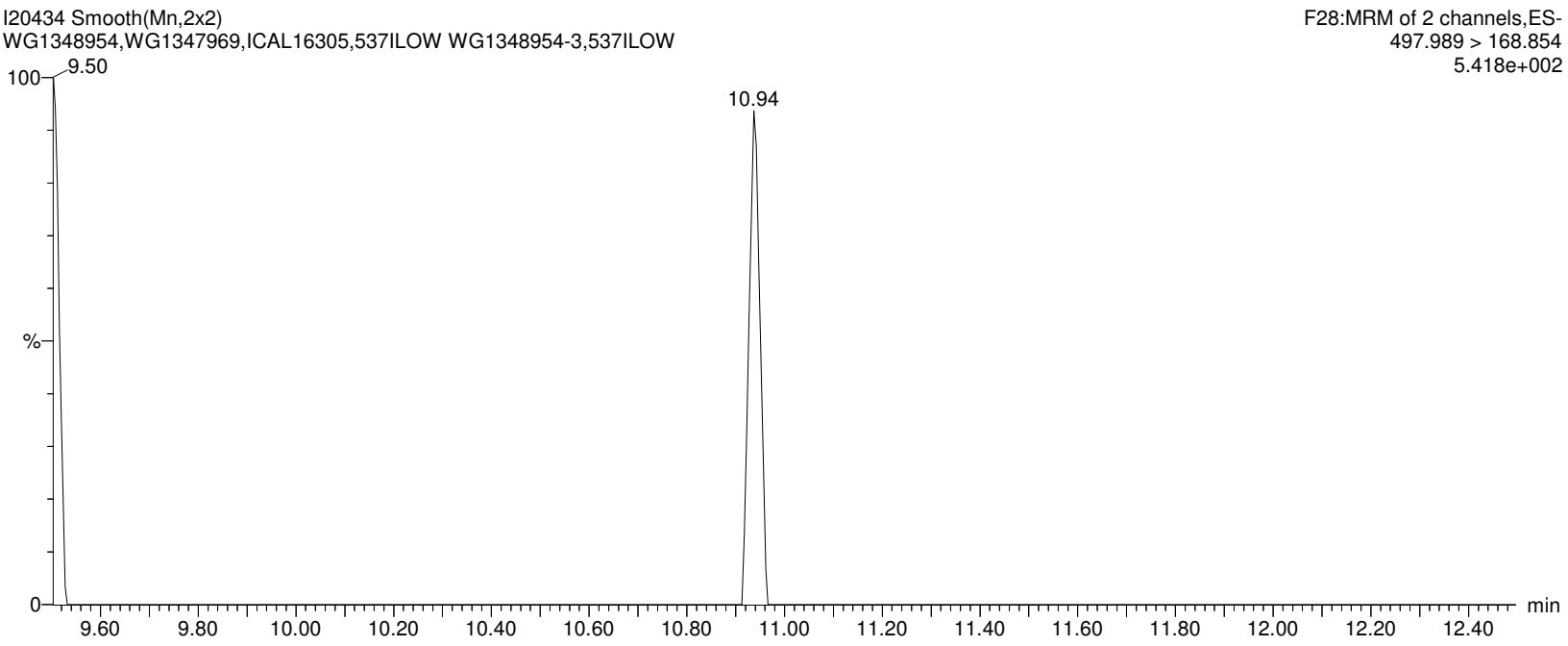

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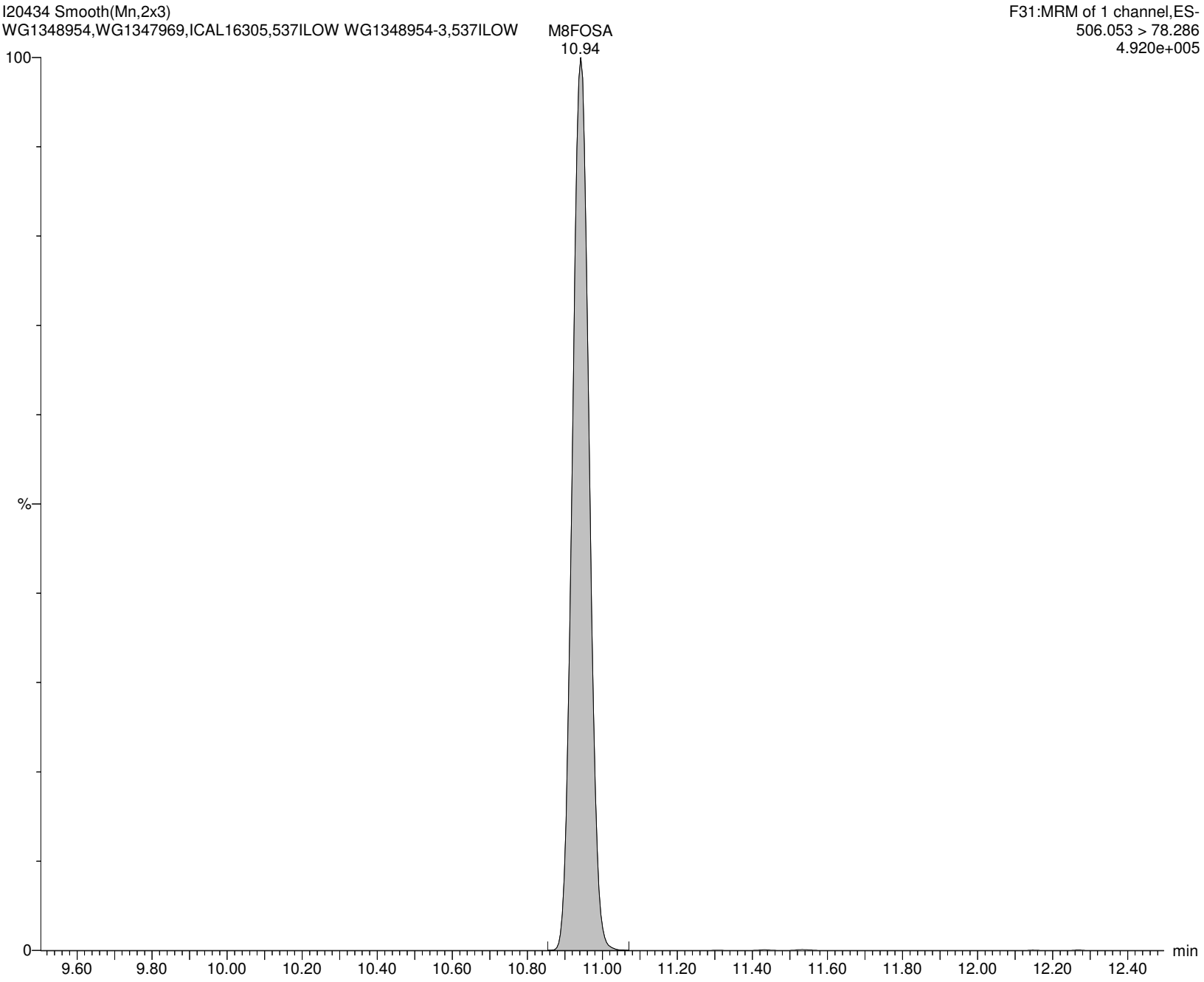

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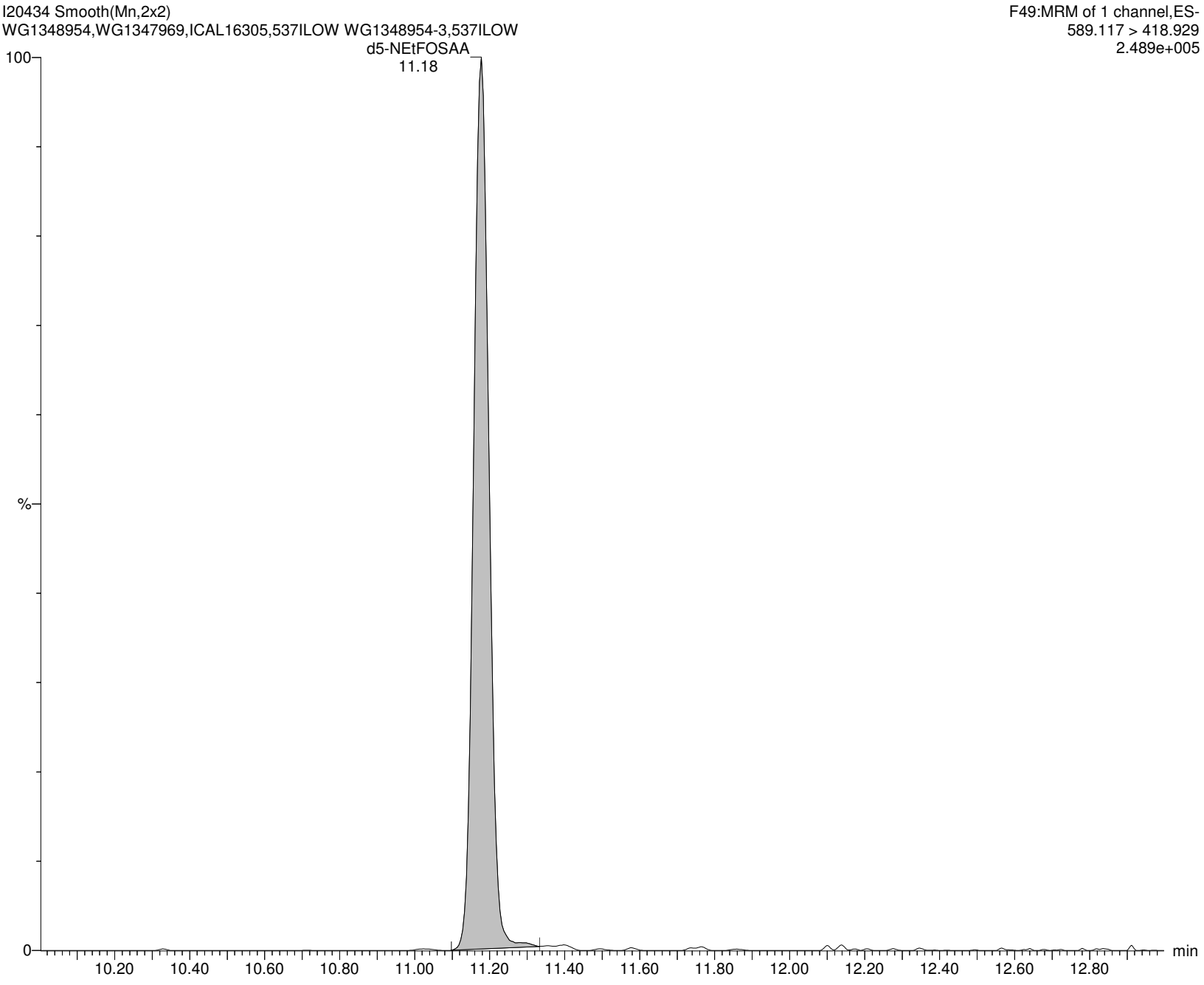

all concentration units in (ng/mL)

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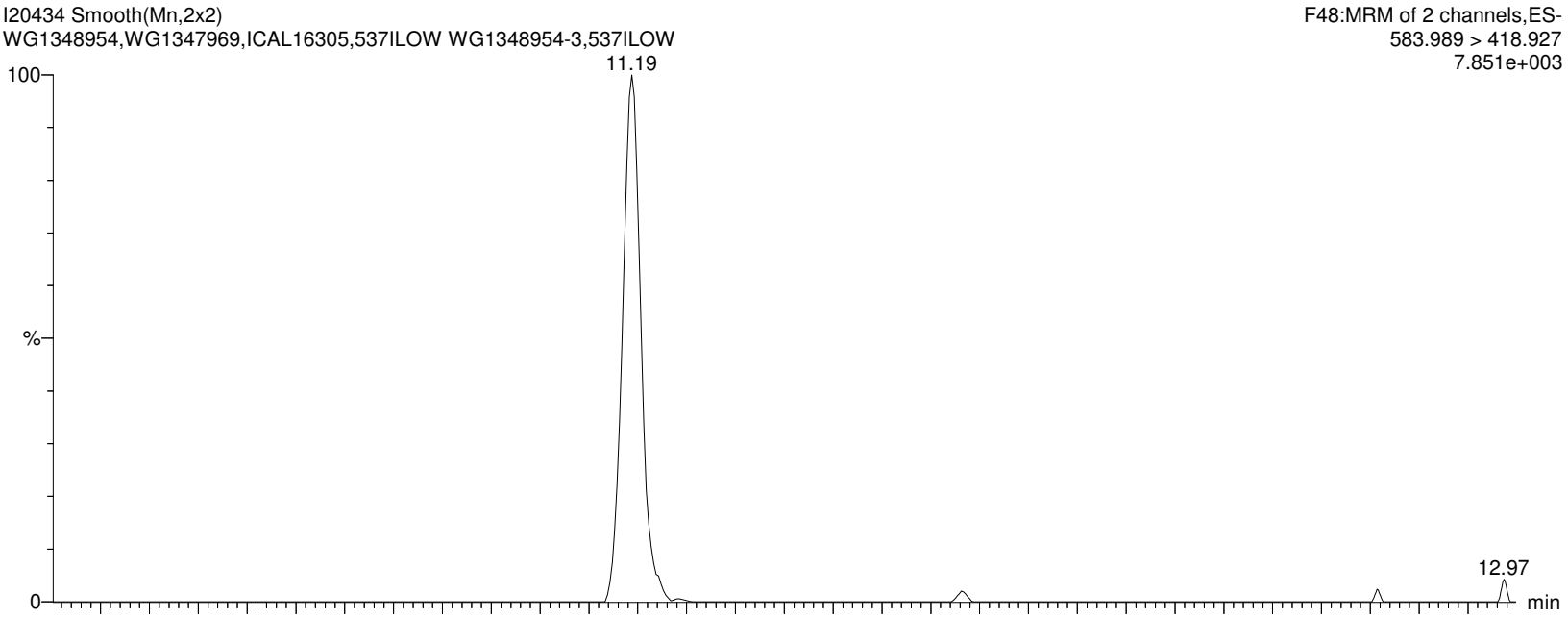

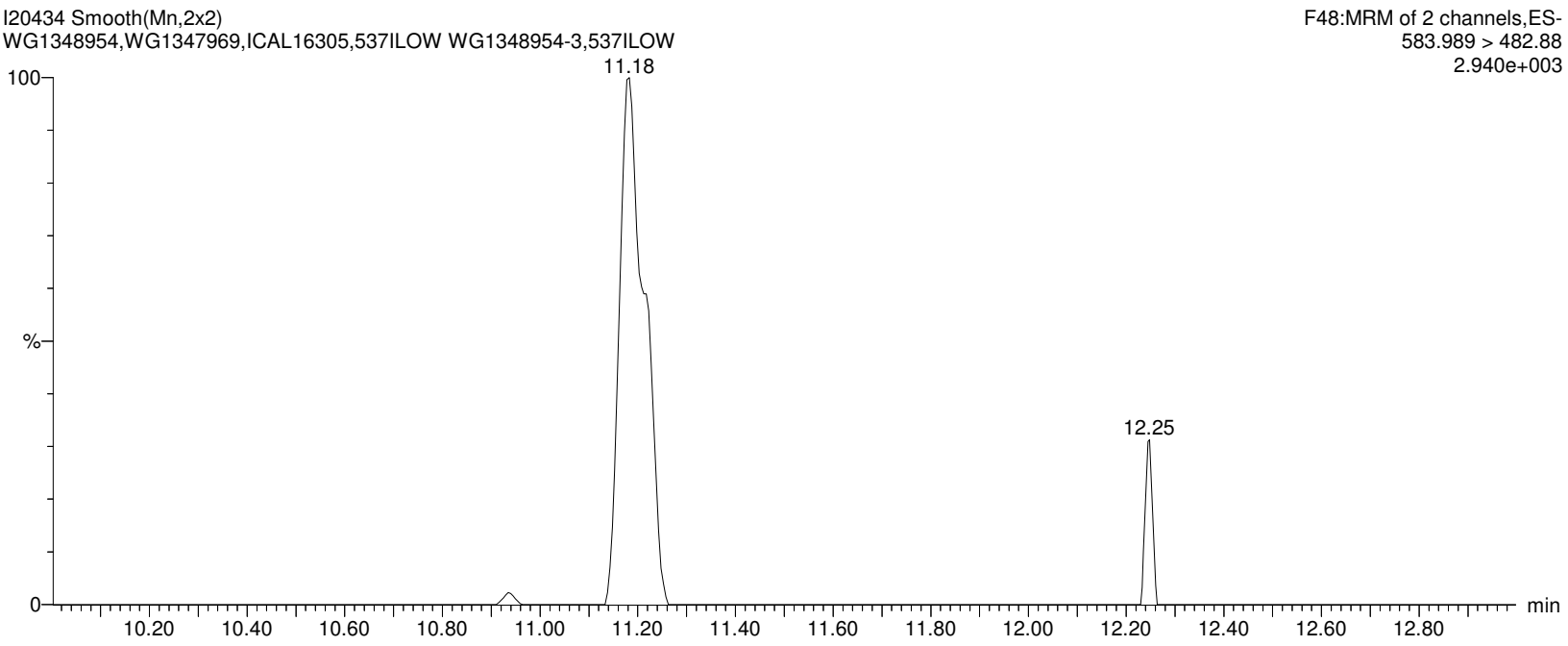

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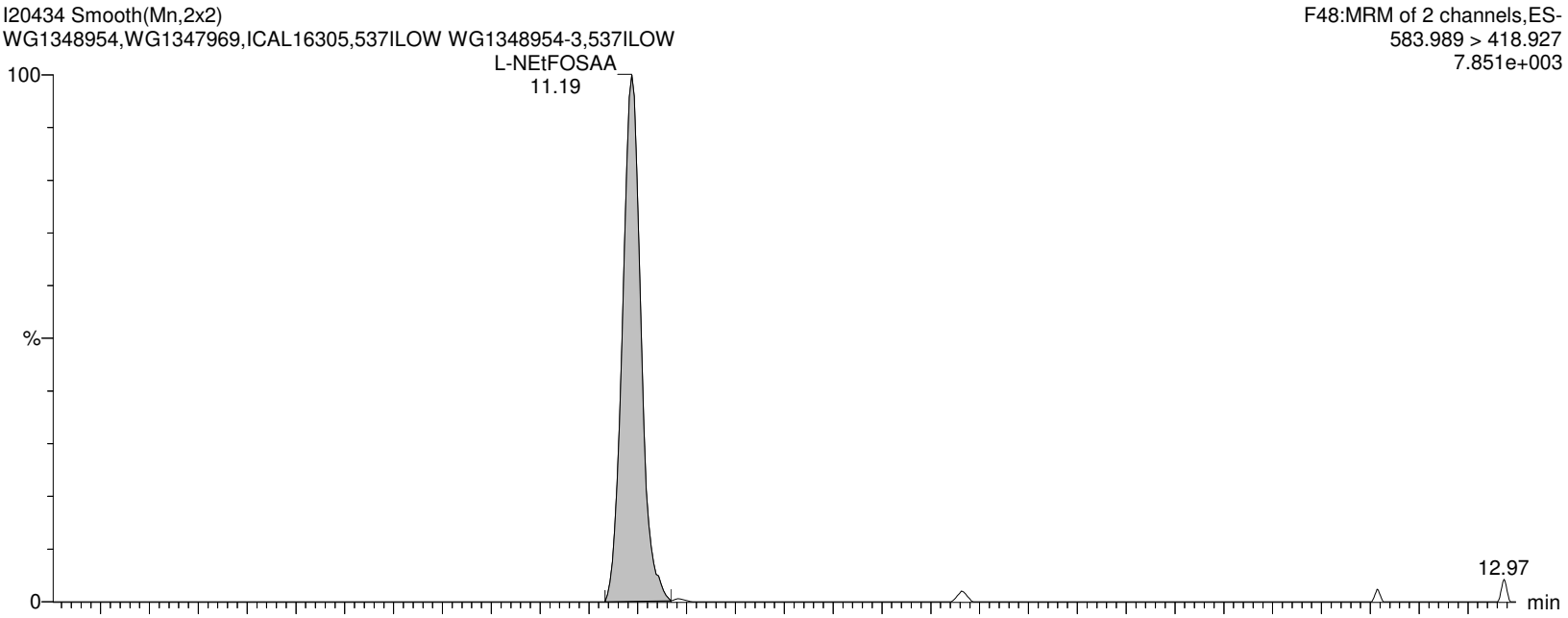

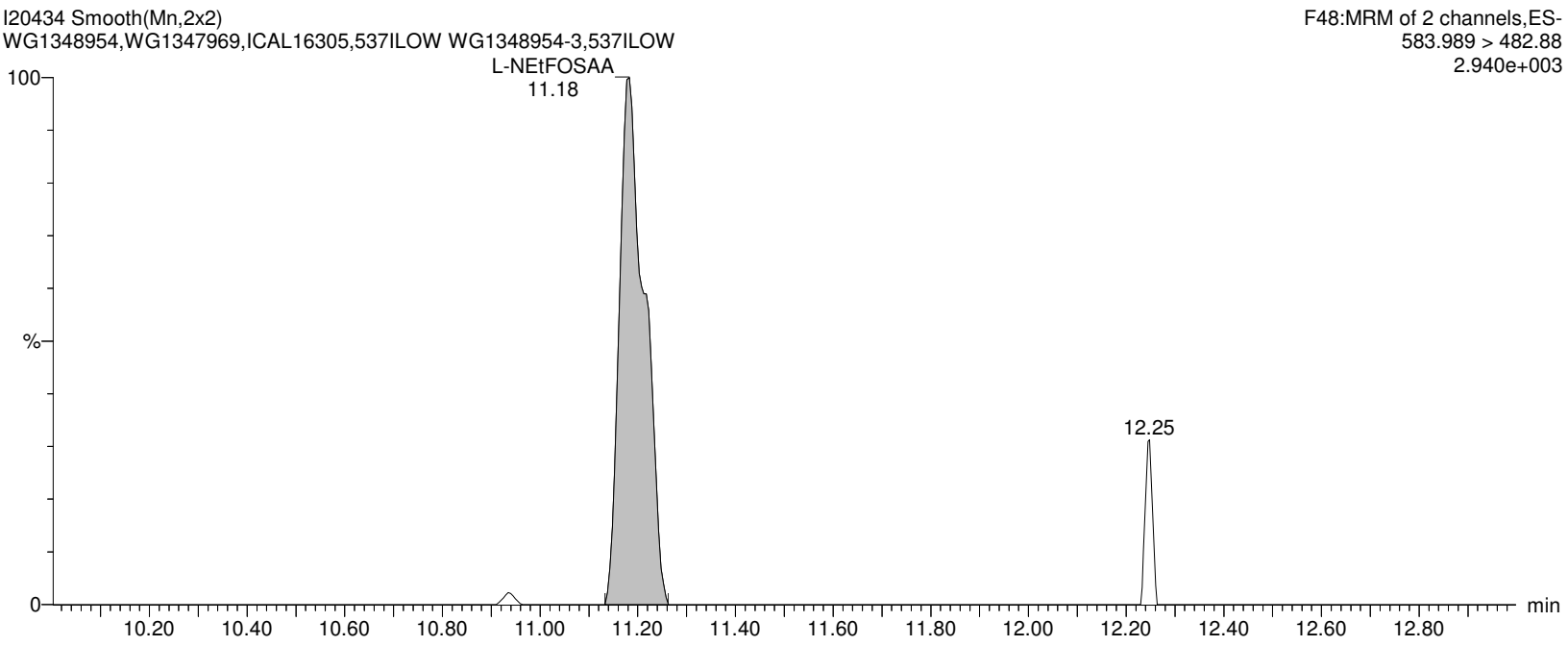

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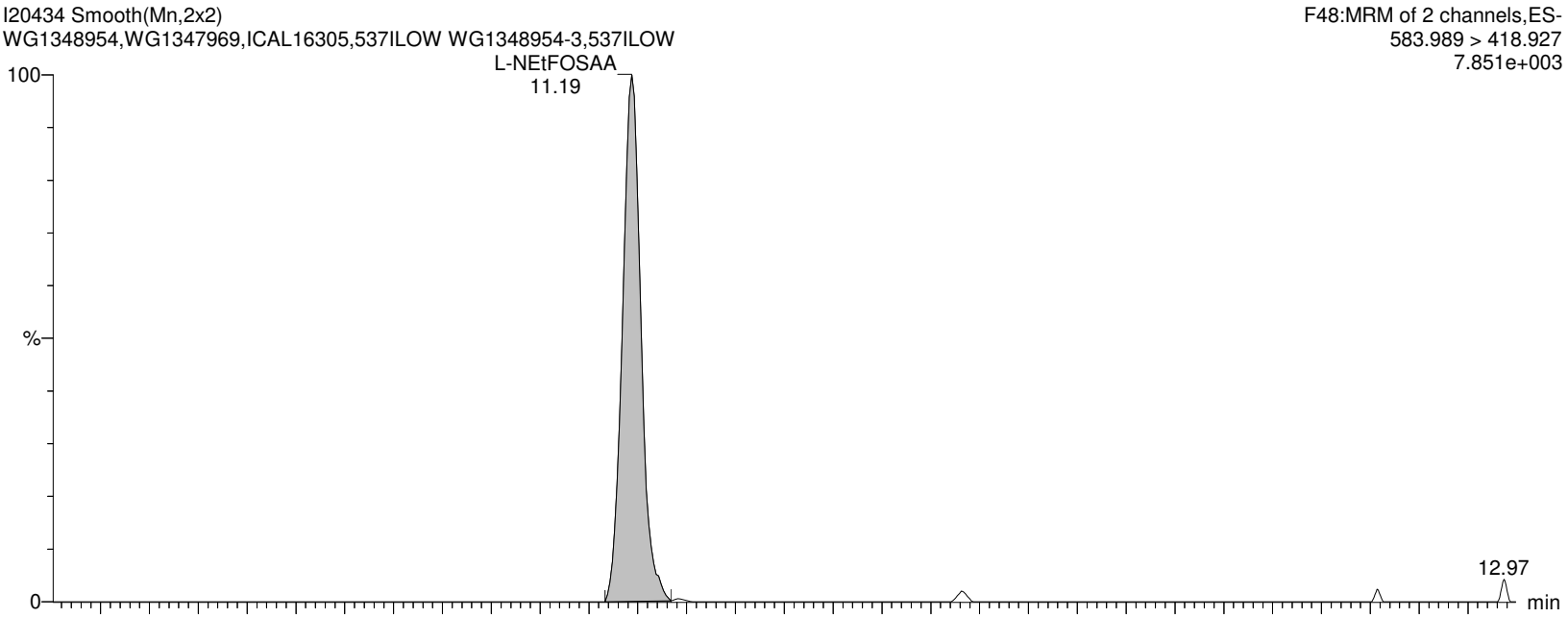

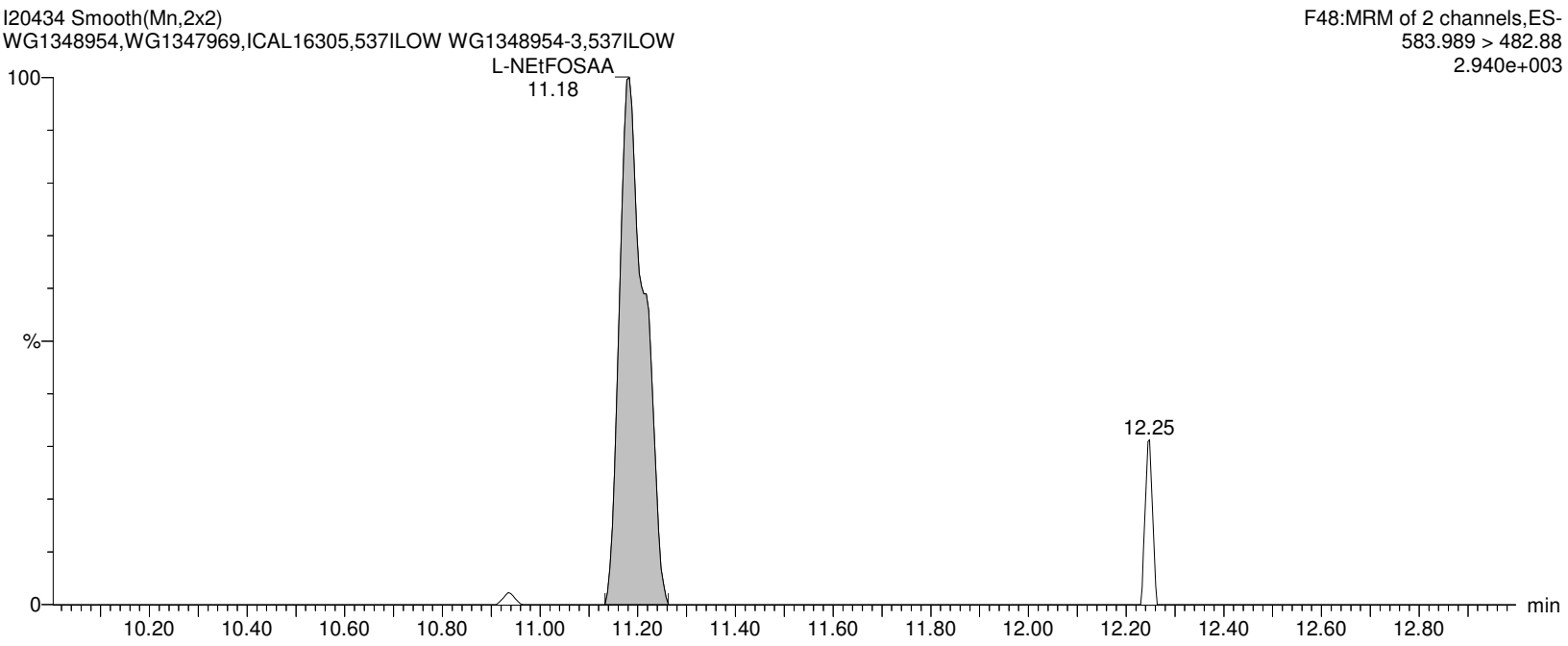

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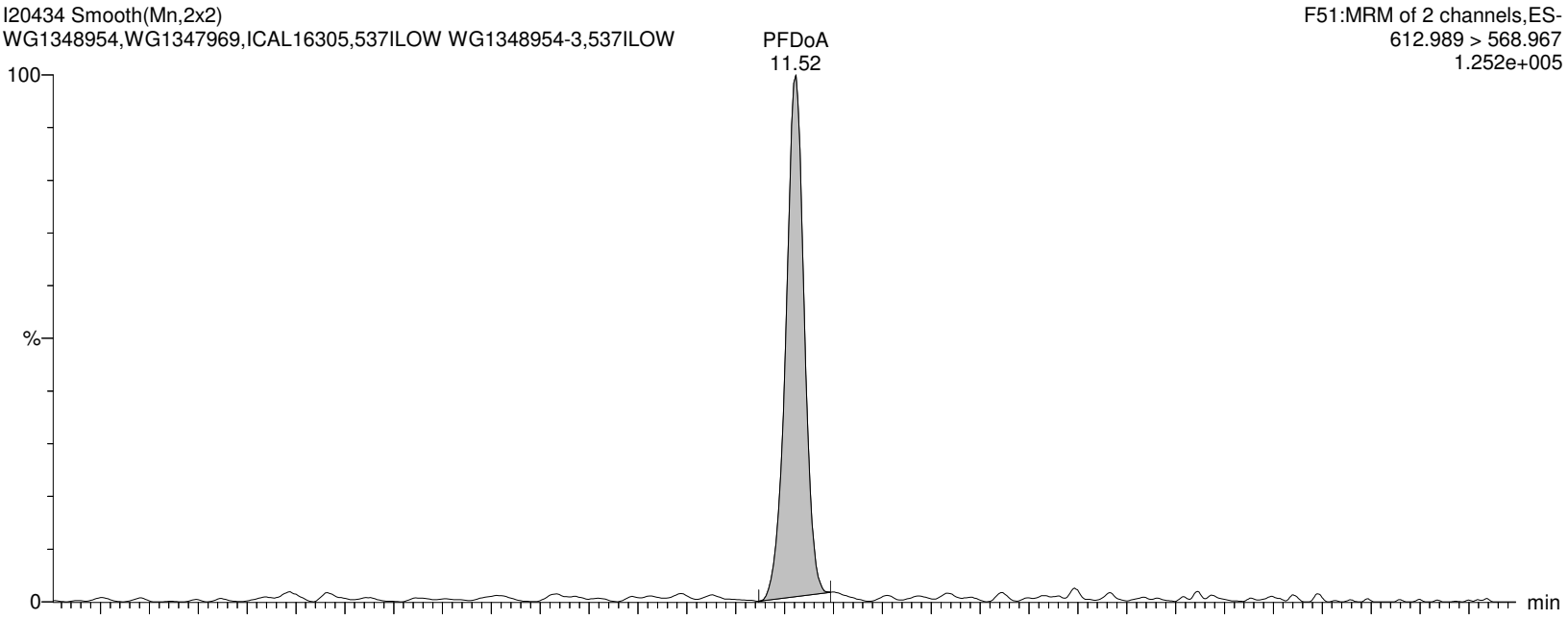

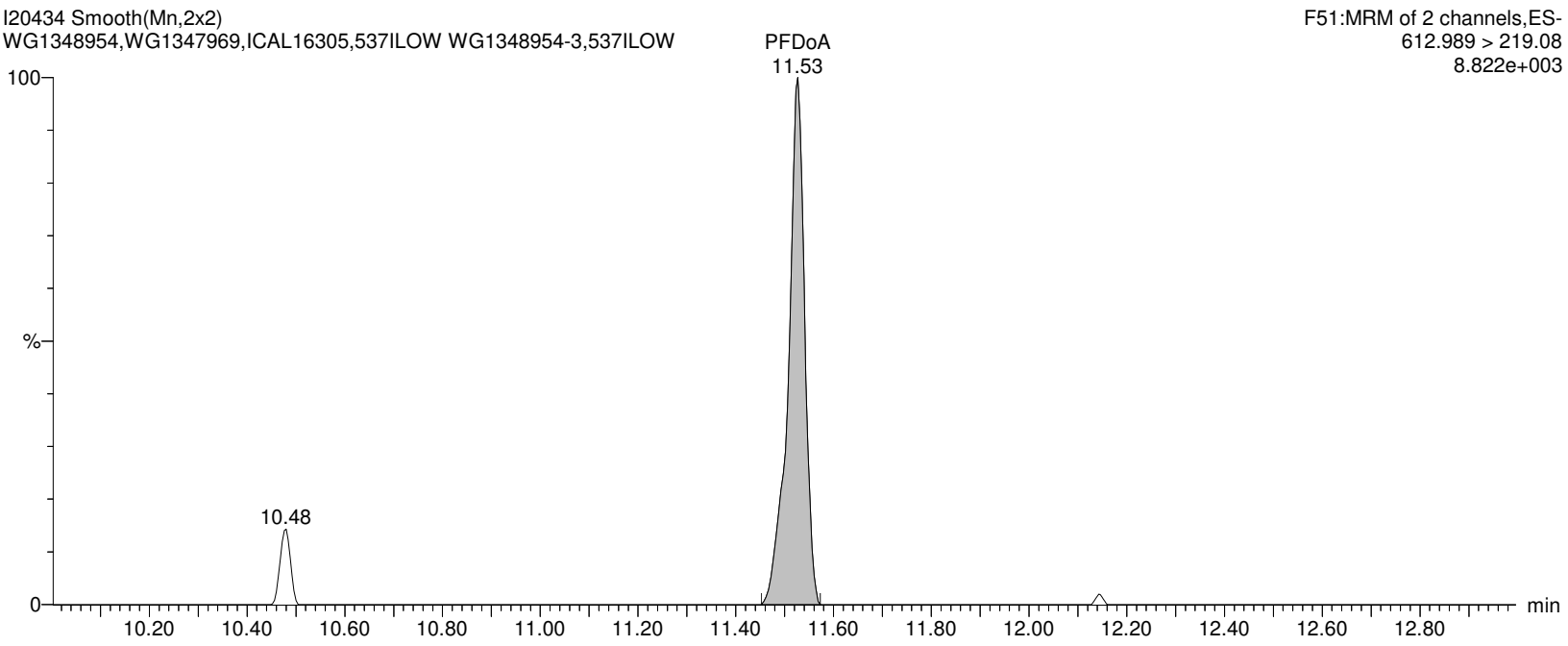

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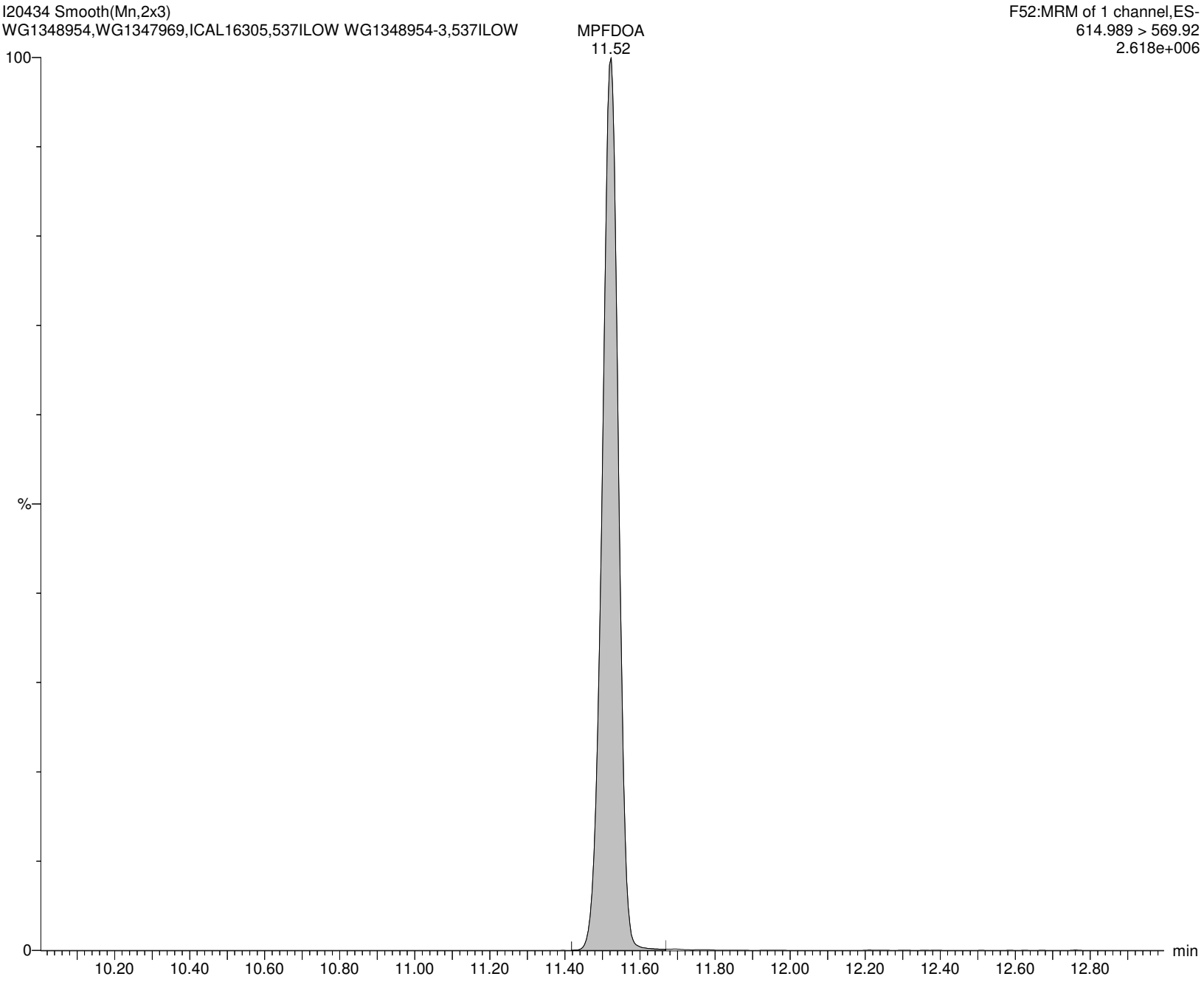

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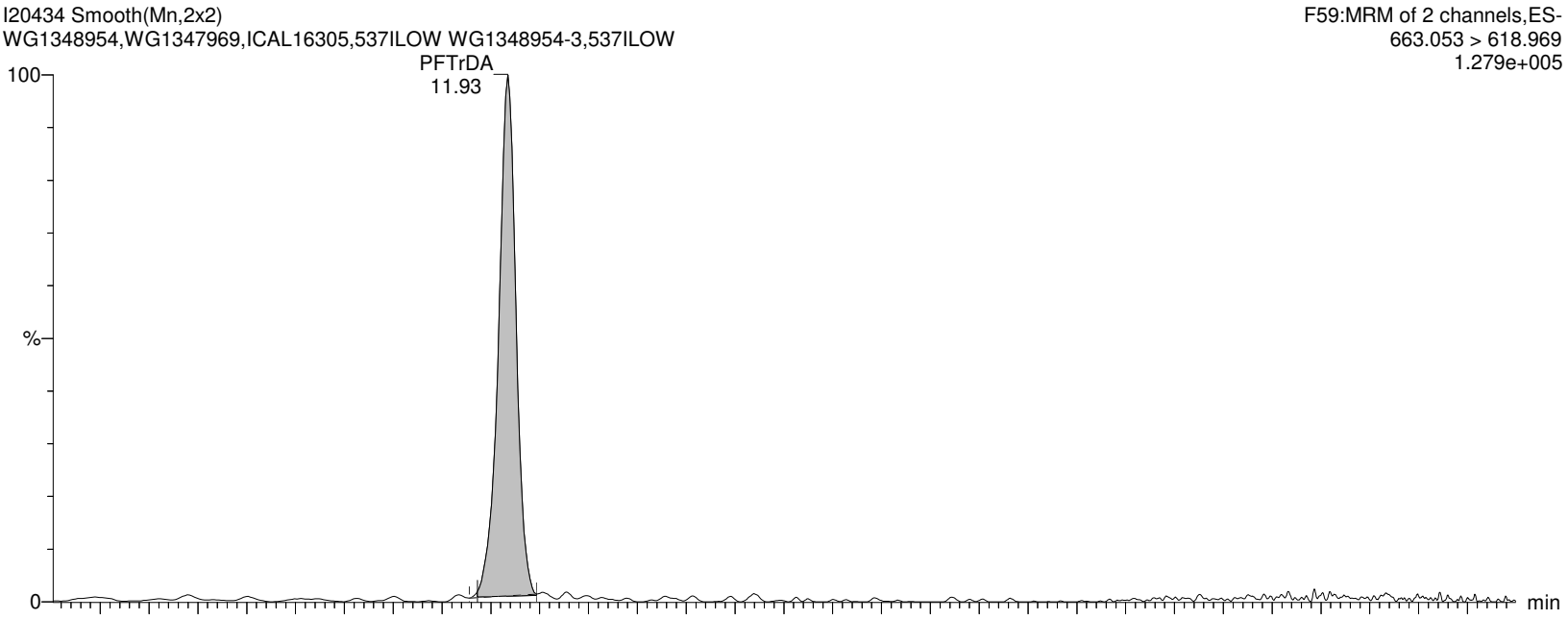

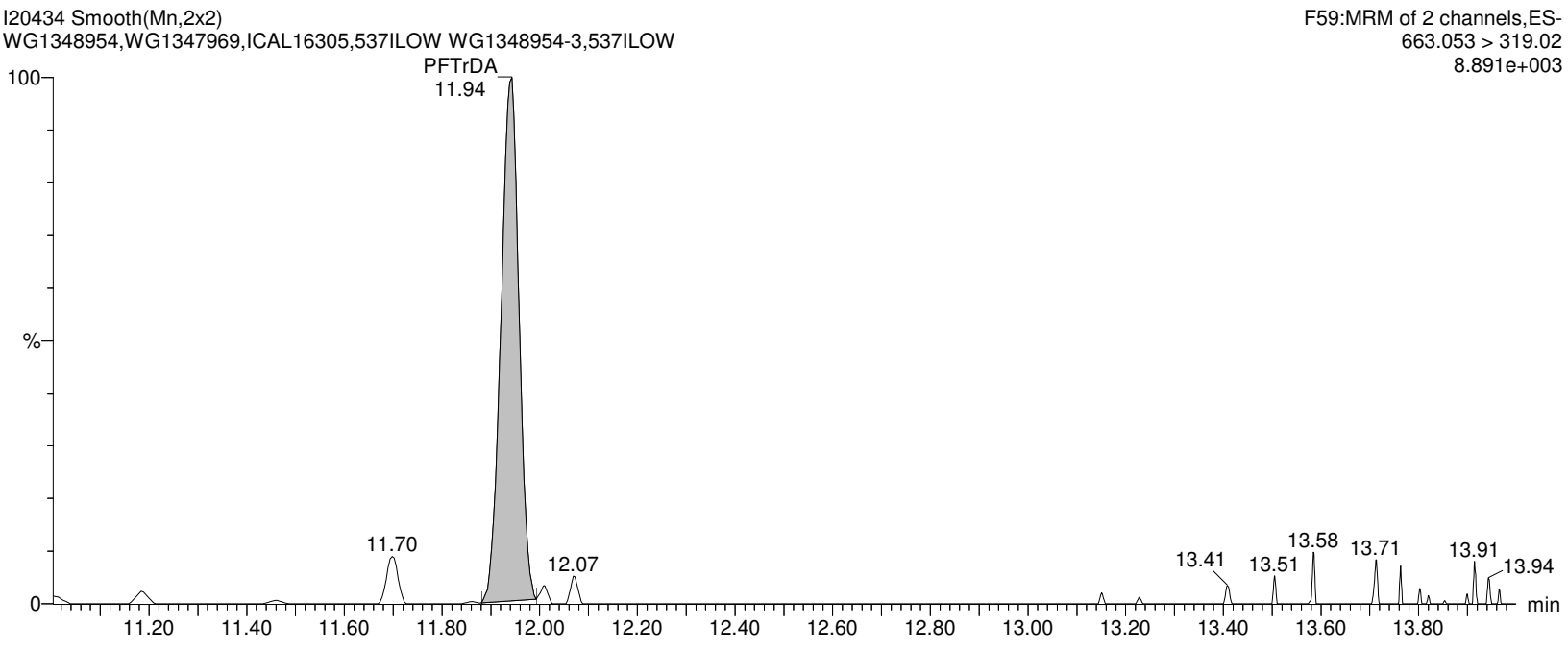

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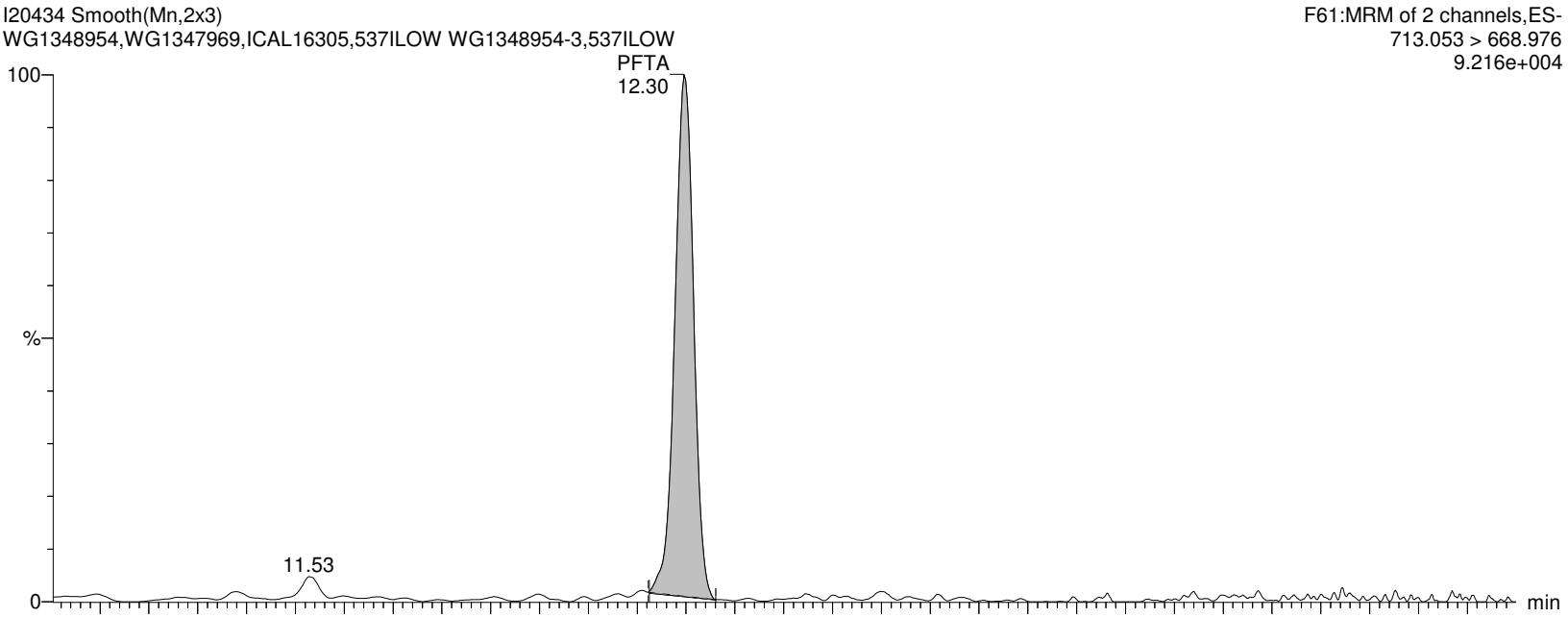

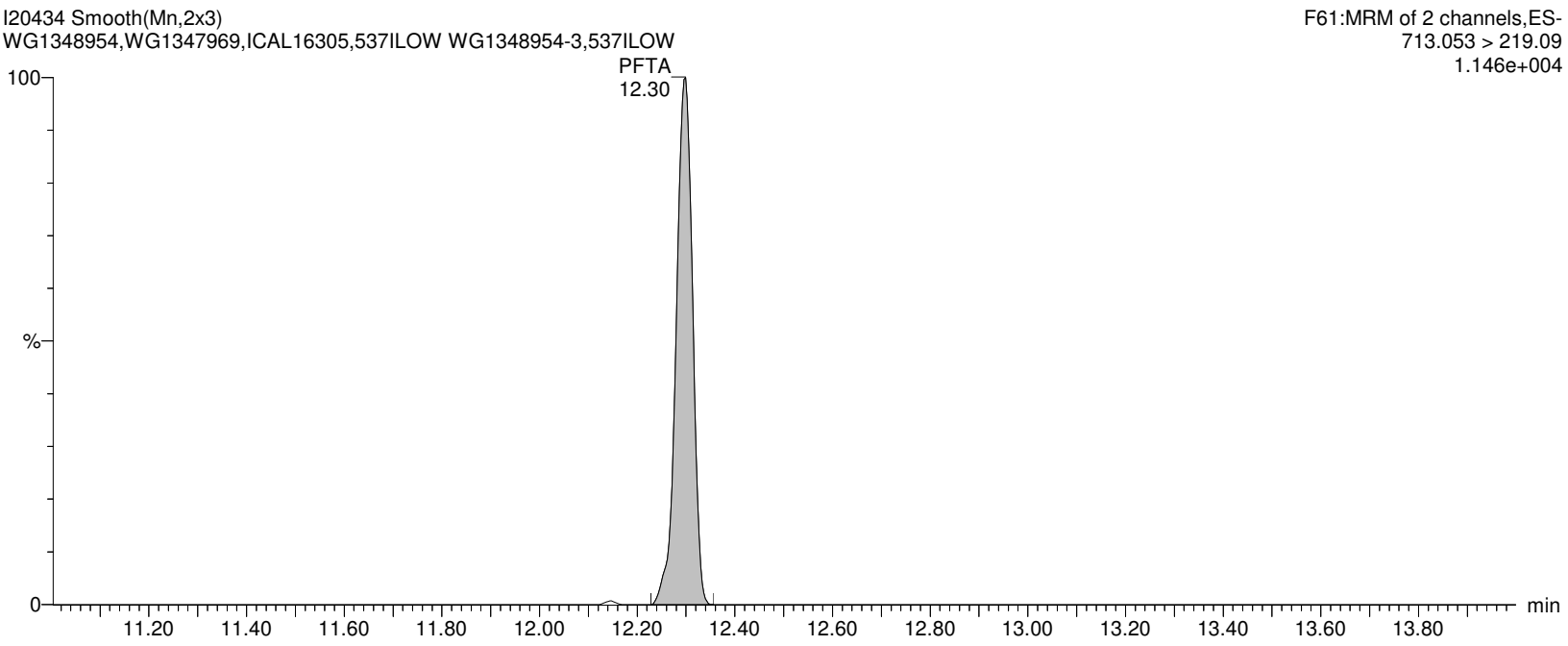

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954B.qld
Last Altered: Wednesday, March 11, 2020 19:42:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:41:27 Eastern Daylight Time

Name: I20434
ID: WG1348954-3,537ILOW
Date: 10-Mar-2020
Time: 21:04:42
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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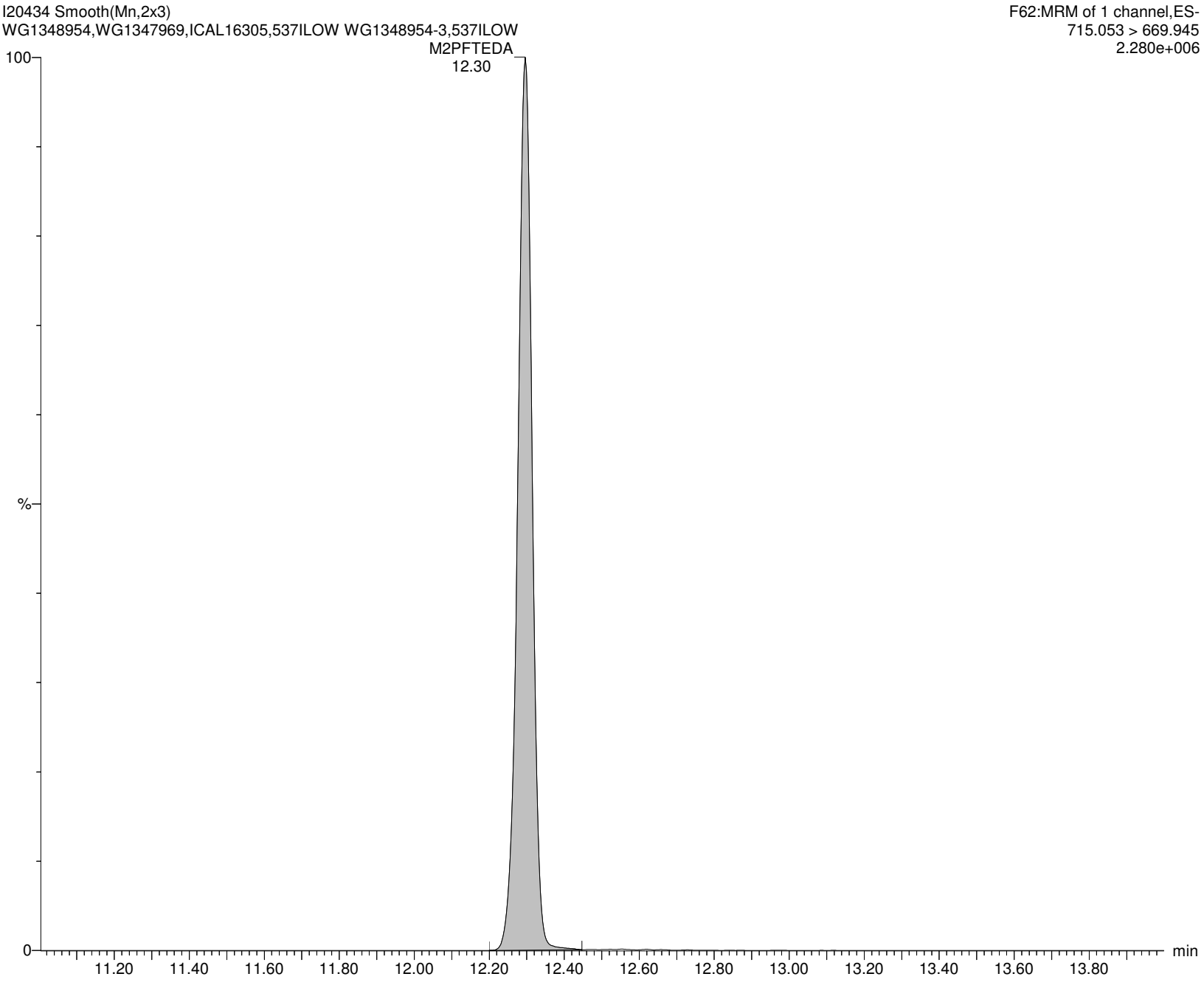

all concentration units in (ng/mL)

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Vial: 1:A,2
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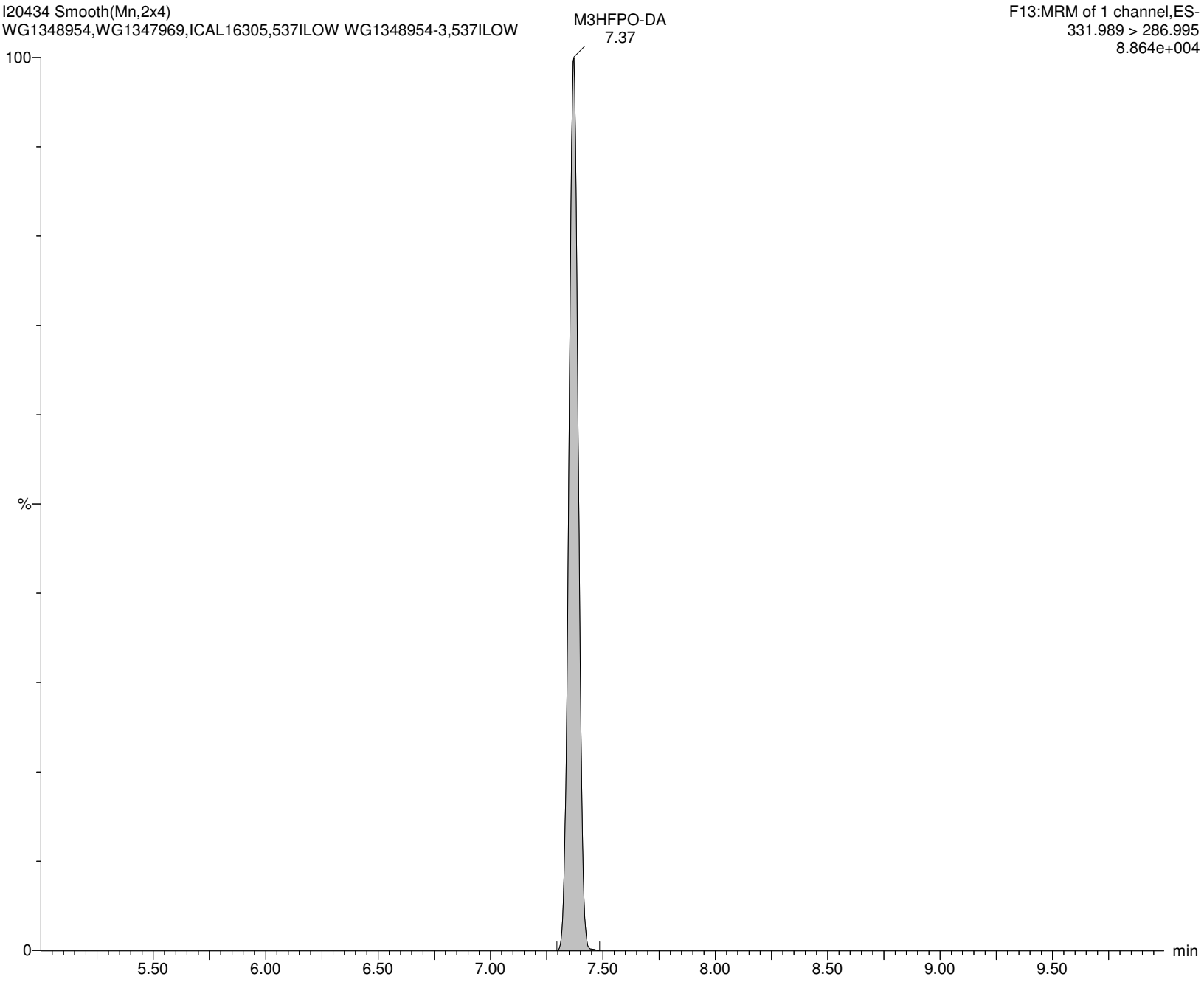

all concentration units in (ng/mL)

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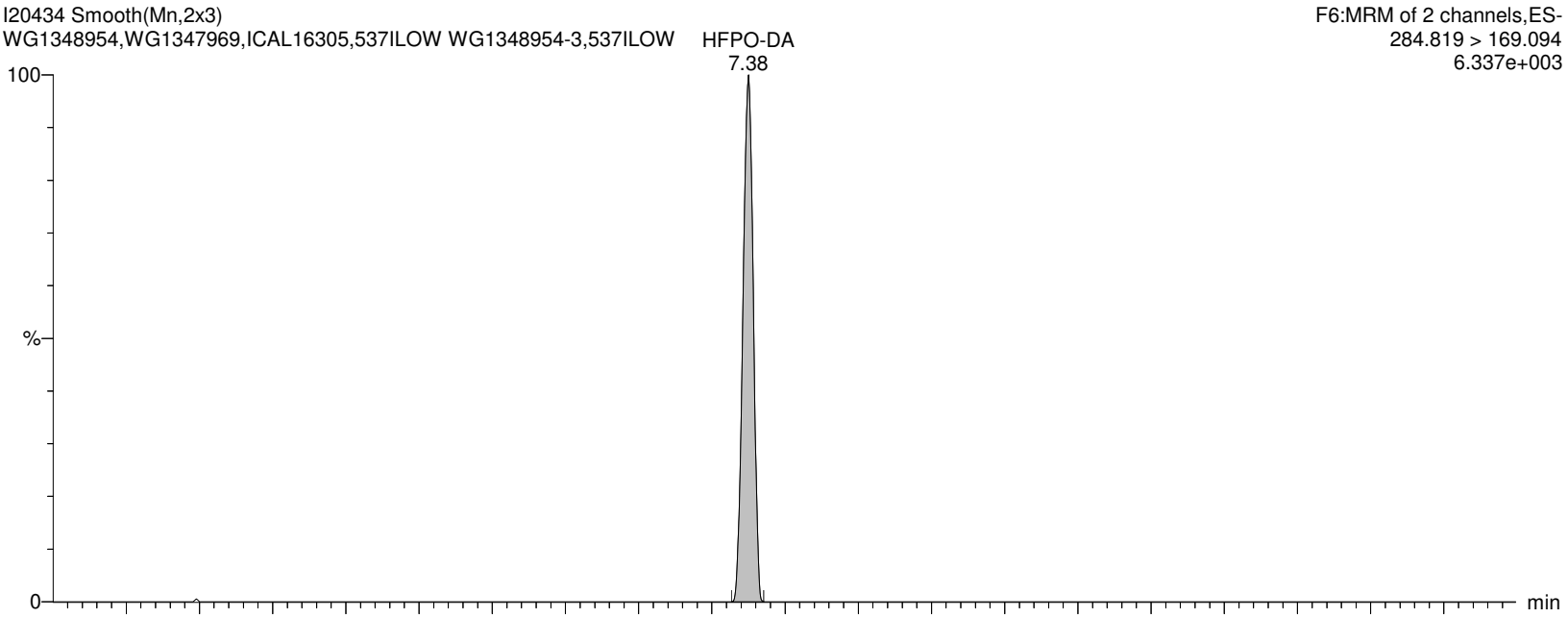

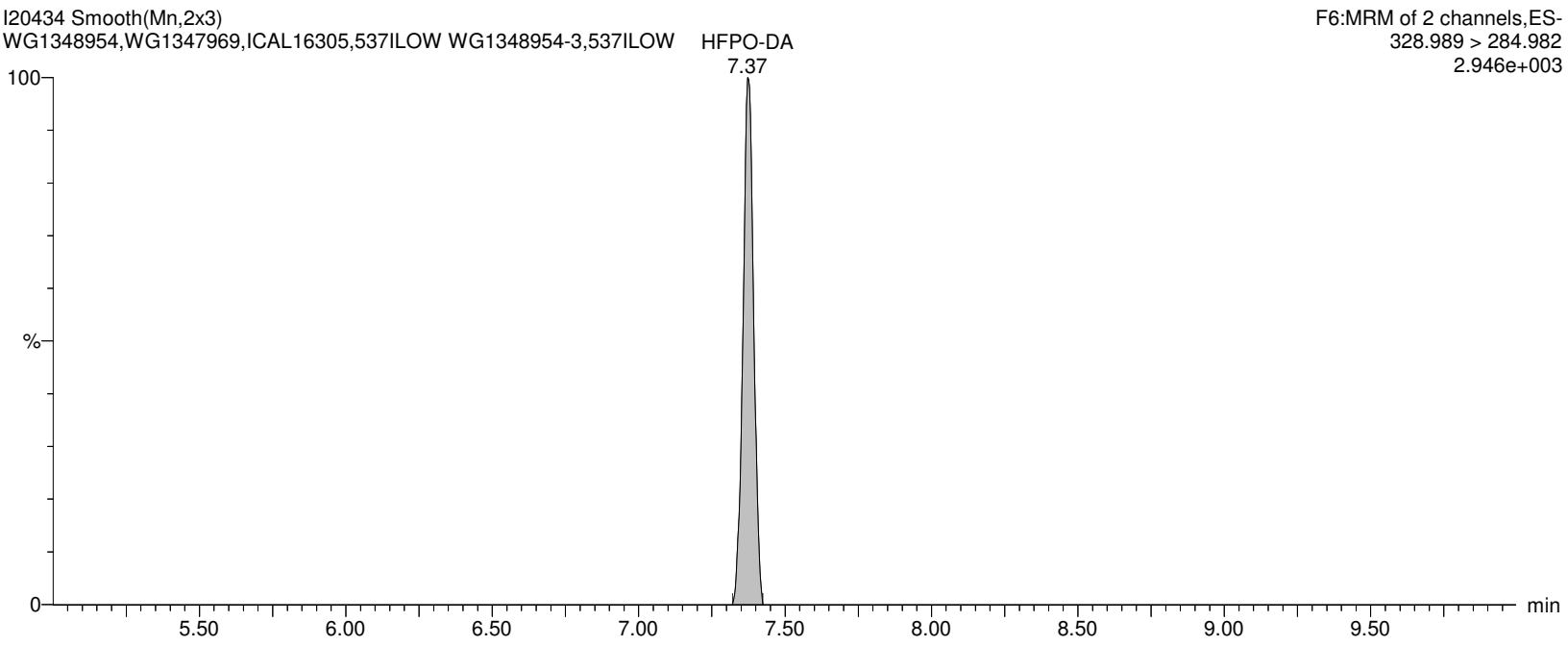

all concentration units in (ng/mL)

Alpha Analytical Inc.
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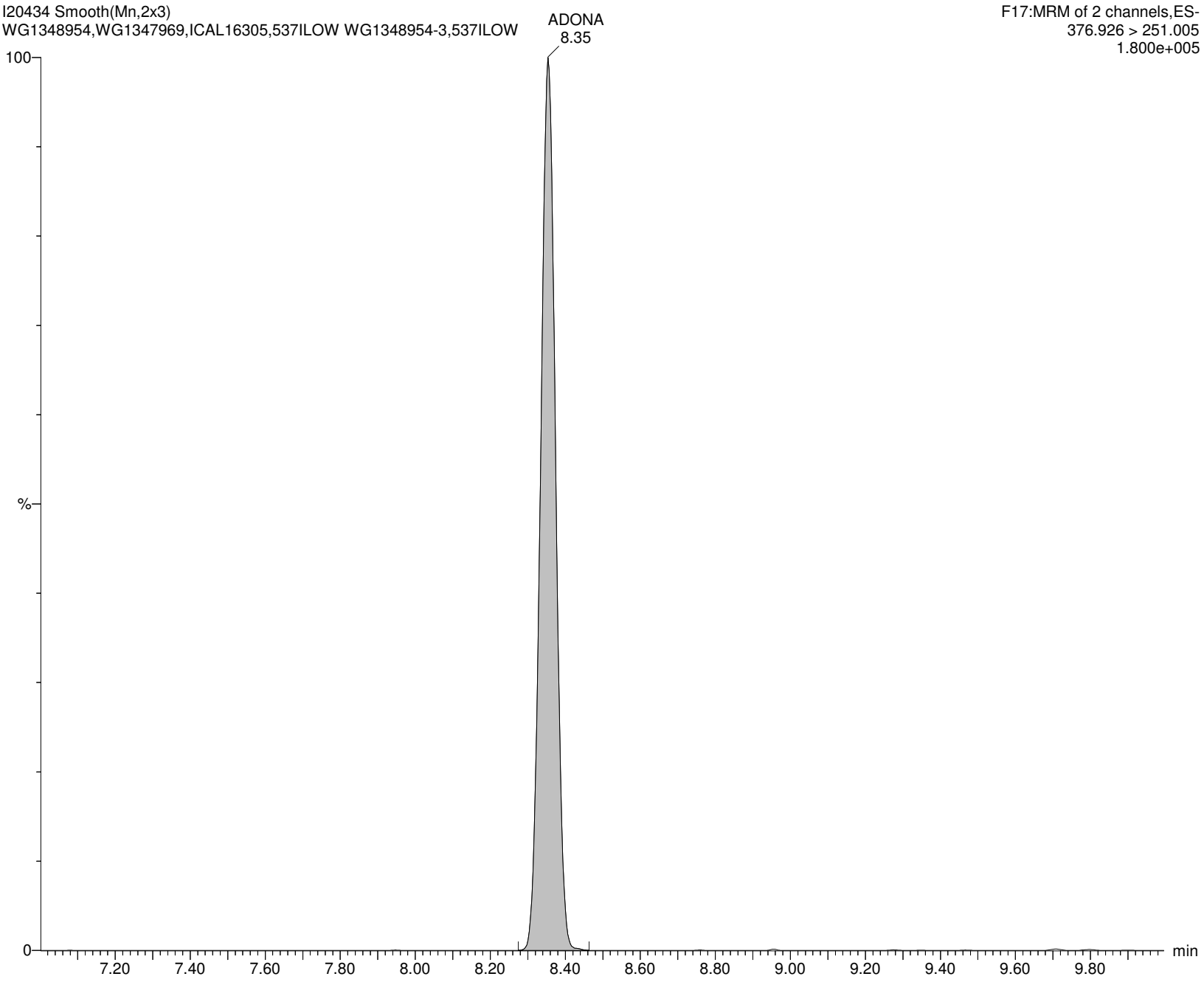

all concentration units in (ng/mL)

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Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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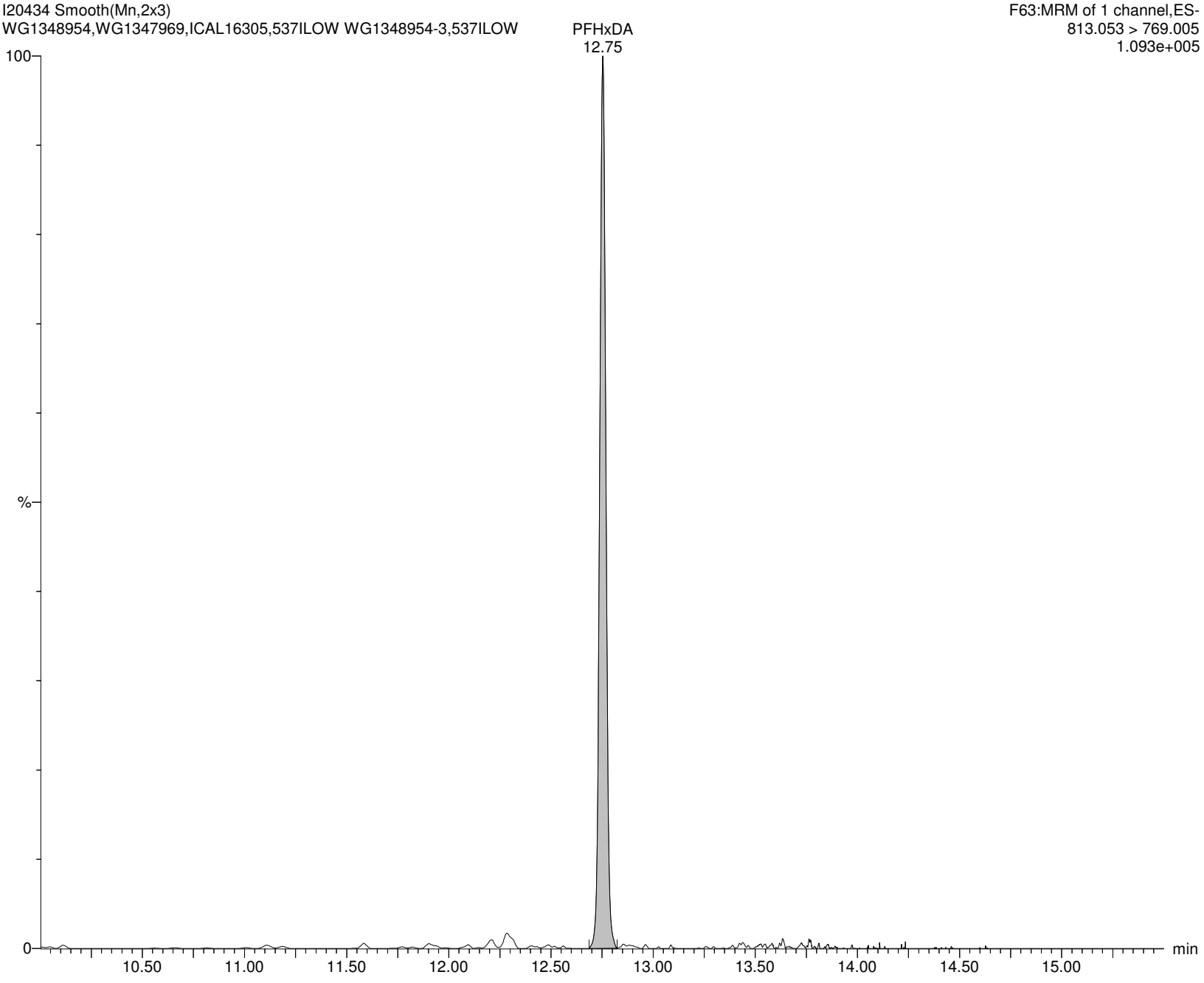

all concentration units in (ng/mL)

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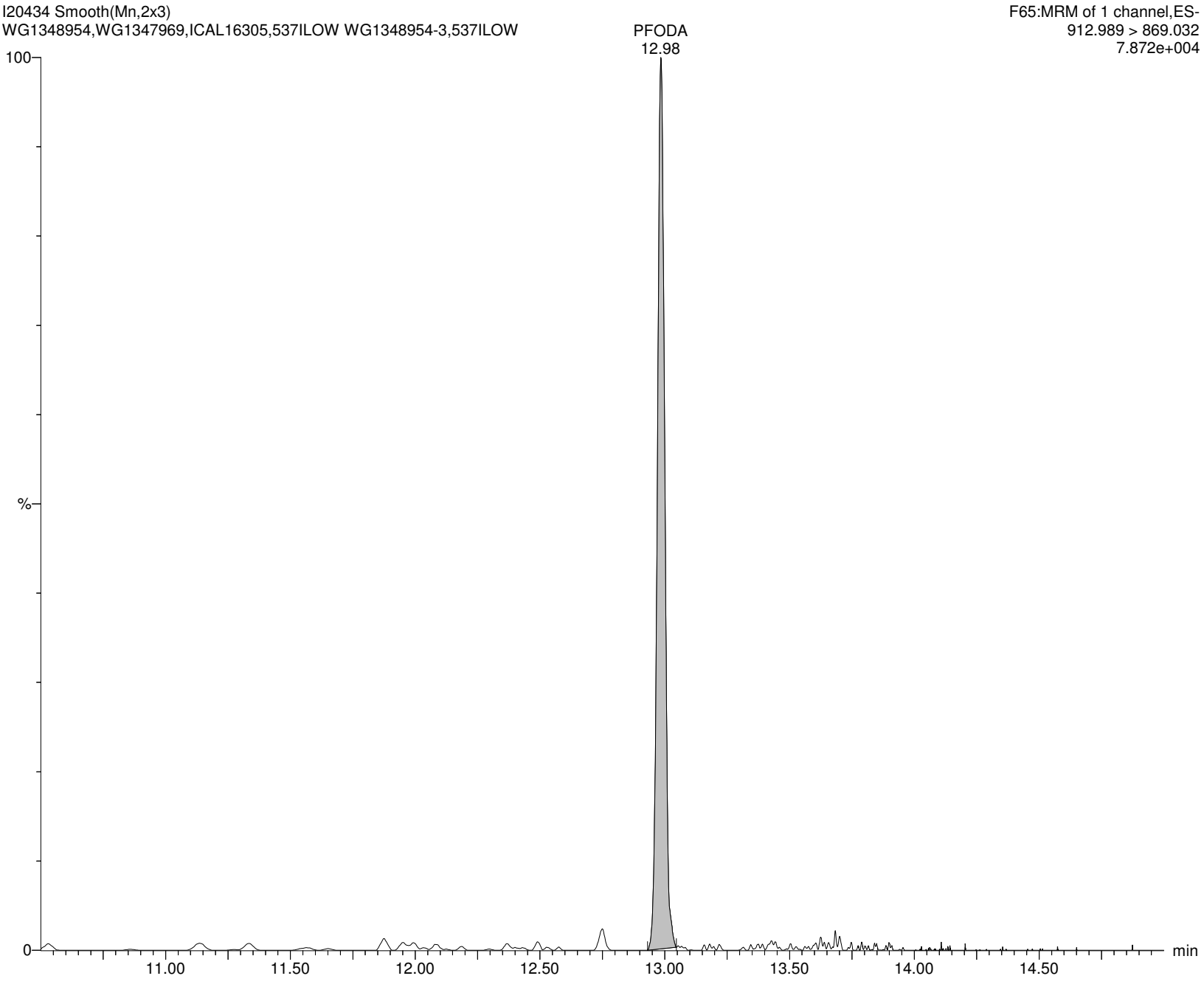

all concentration units in (ng/mL)

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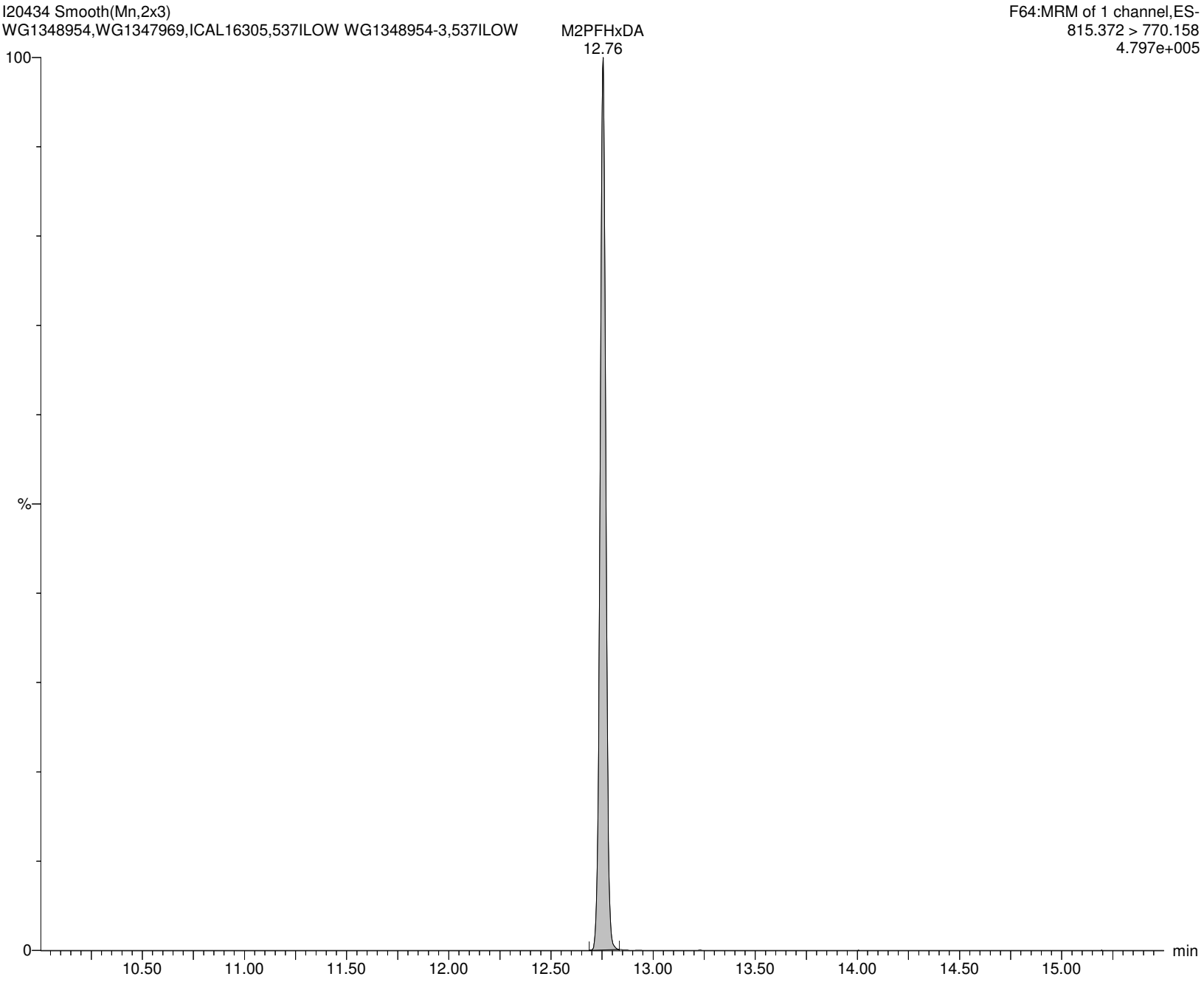

all concentration units in (ng/mL)

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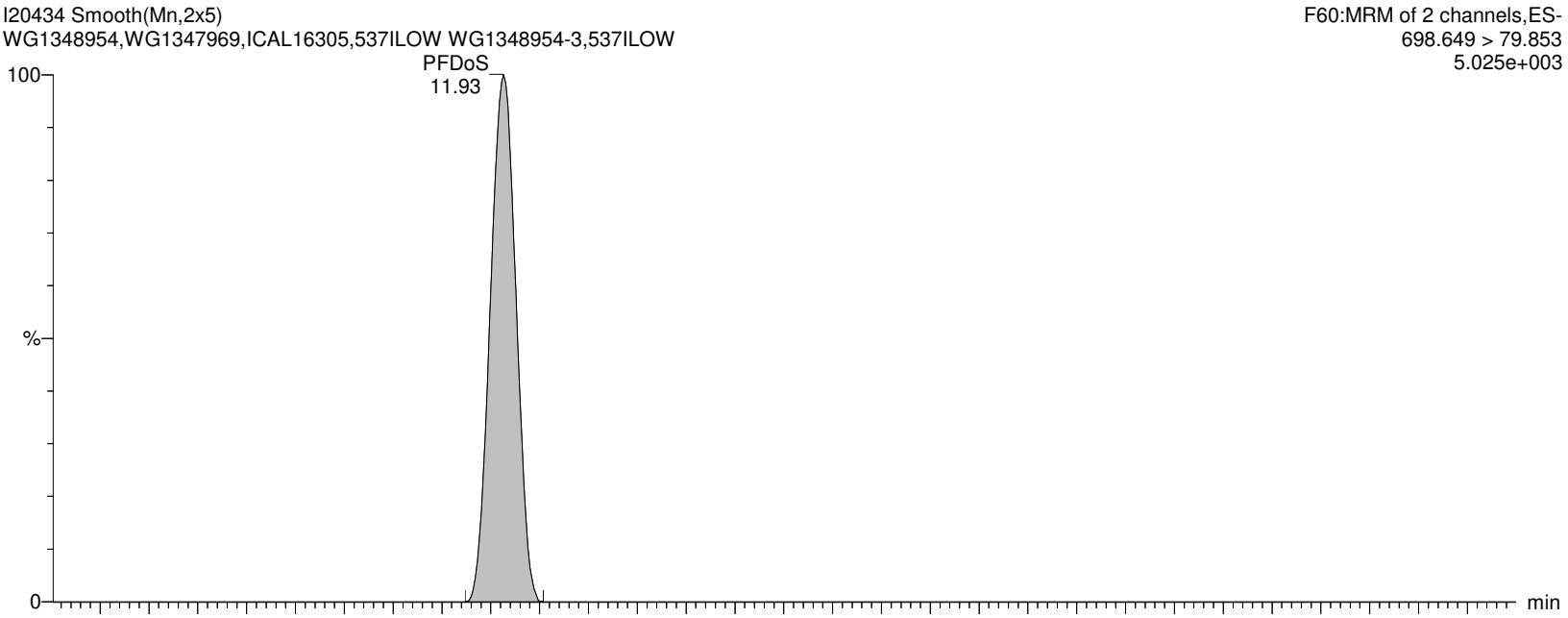

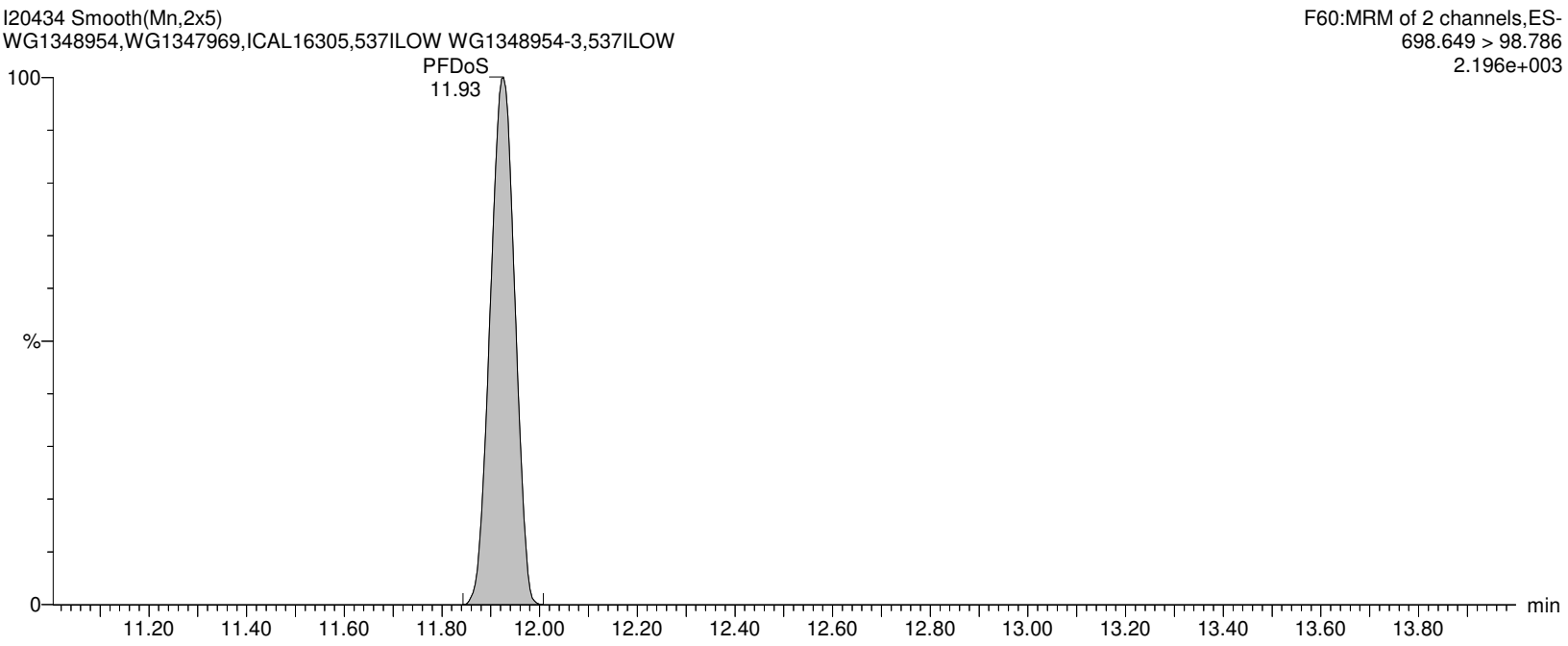

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954B.qld
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Vial: 1:A,2
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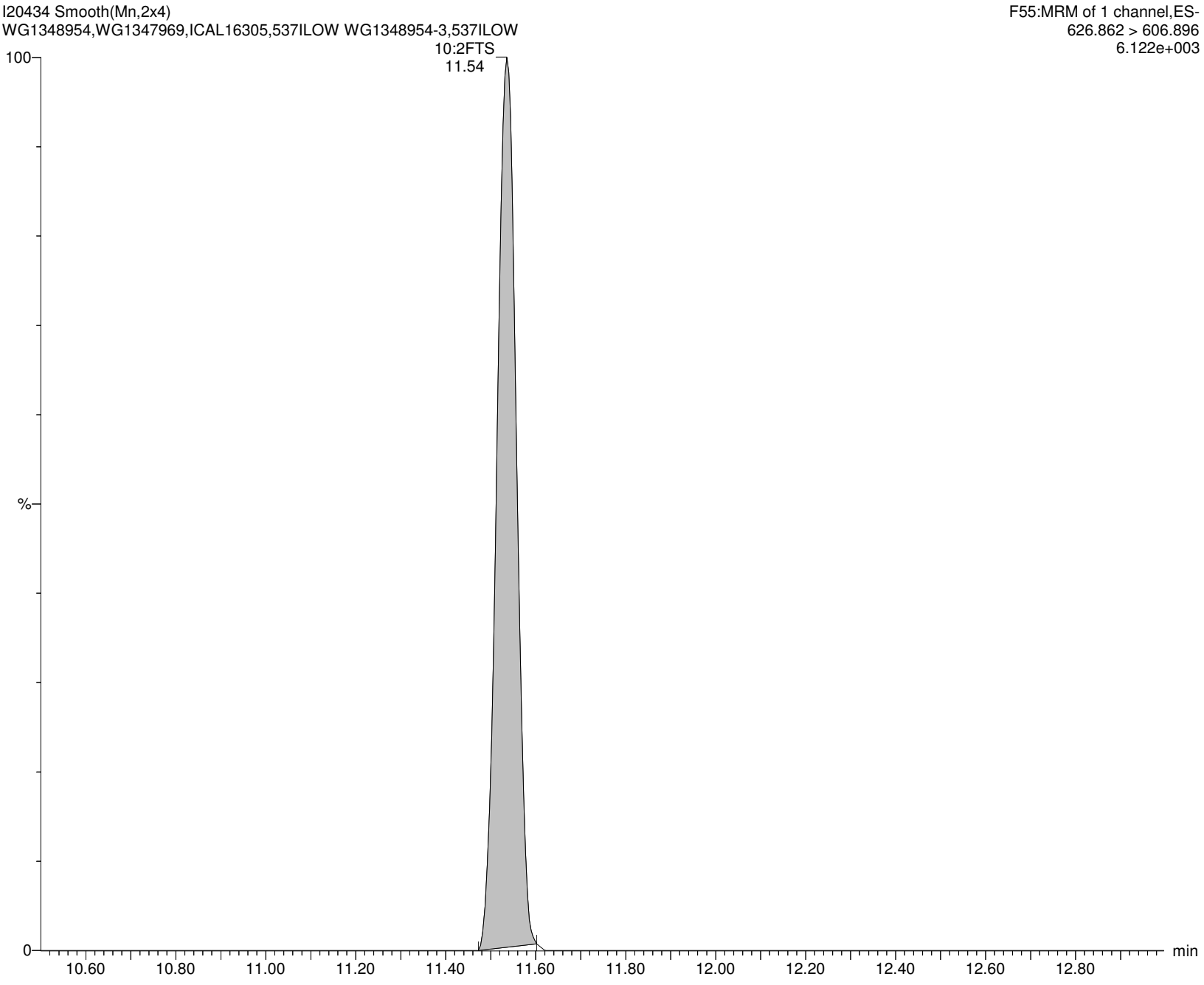

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Wednesday, March 11, 2020 19:42:58 Eastern Daylight Time
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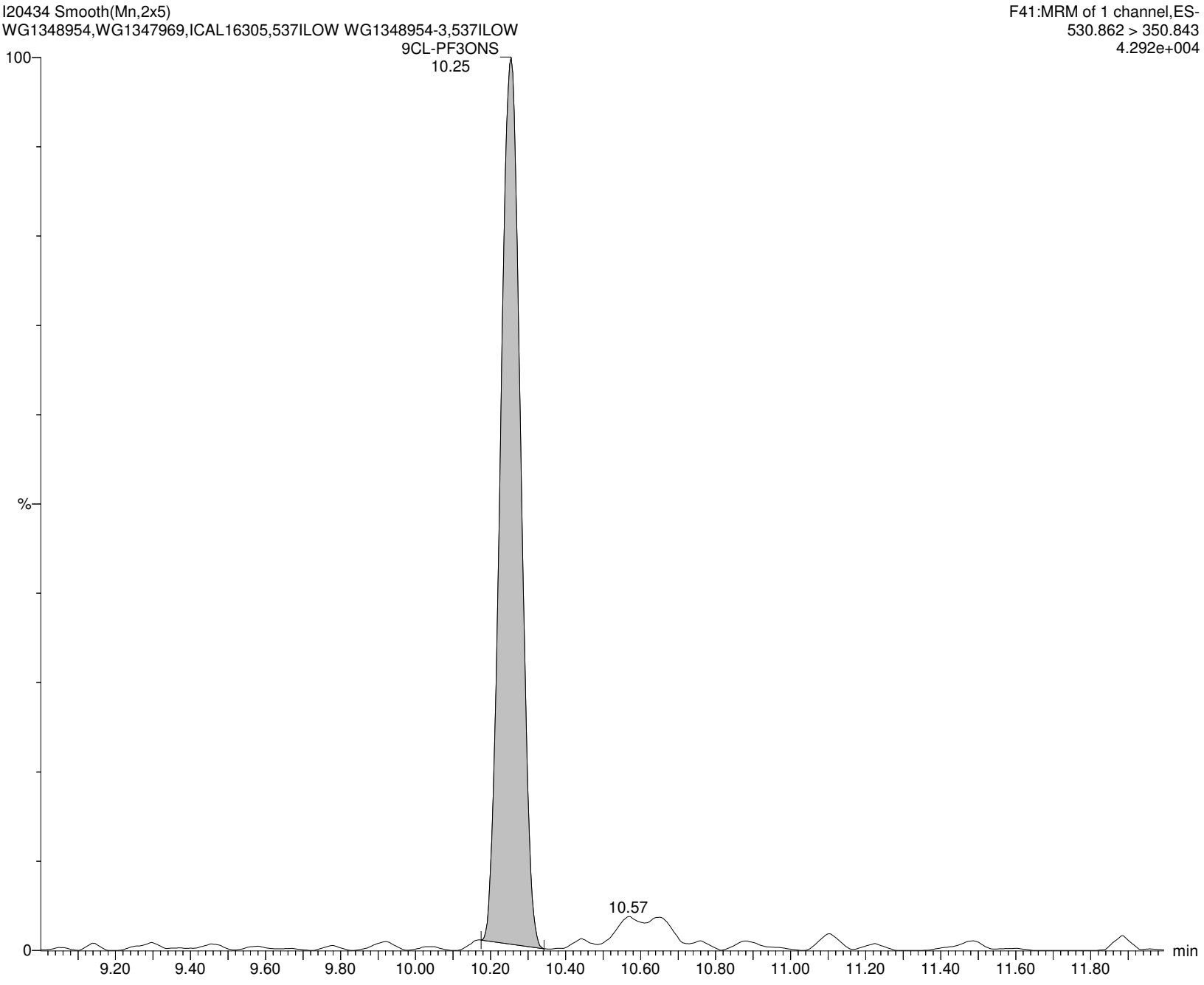
9CL-PF3ONS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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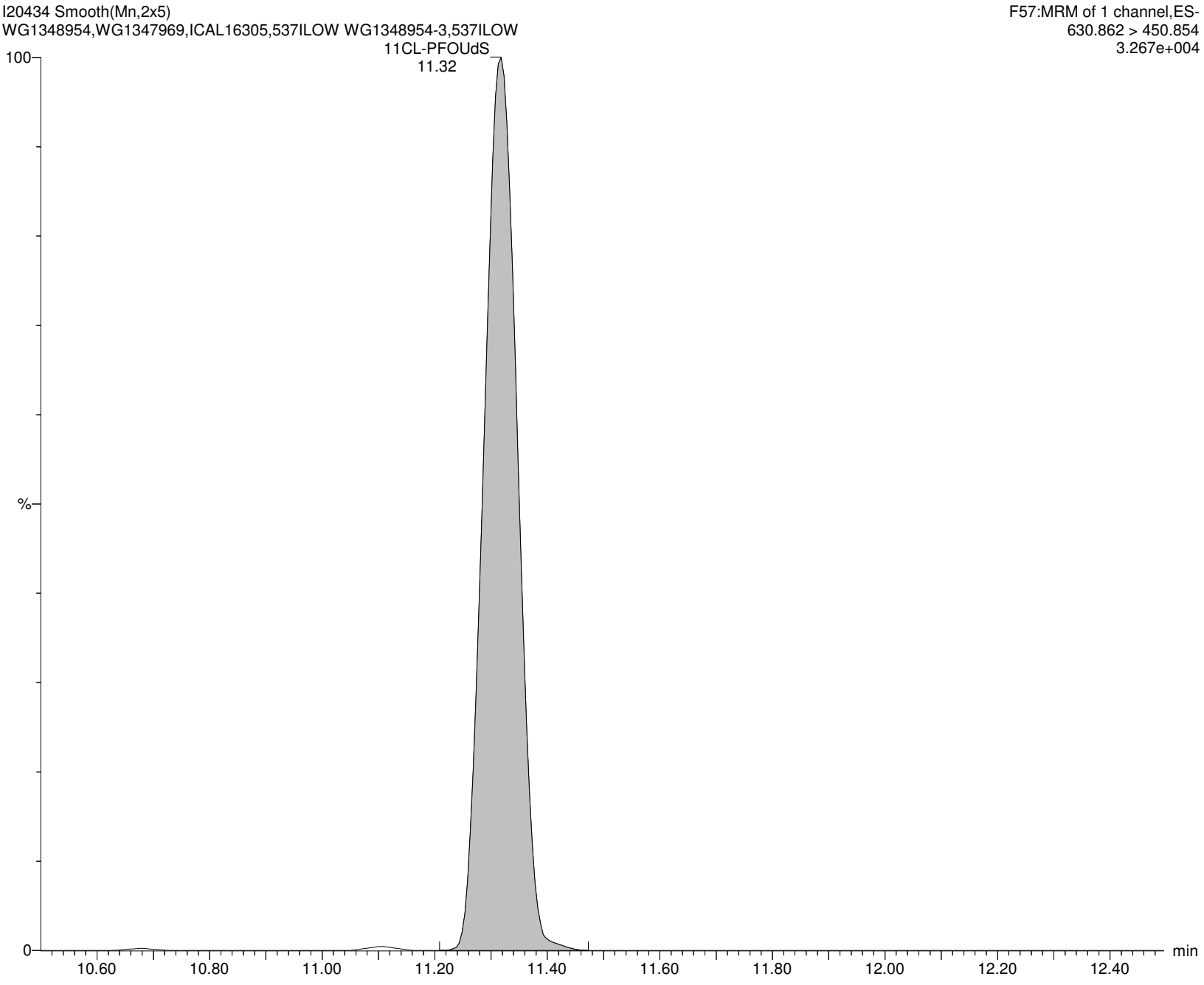

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:36:37 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2020\200309_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 14:41:42

ID: WG1348954-4,537IMED
Name: I20444
Date: 10-Mar-2020
Time: 23:50:12
Description: WG1348954,WG1348193,ICAL16305,537IMED
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
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Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.18	212.926 > 169.111	45137		9.032		na	90.3
2	M3PFBA	INT STD	2.18	215.926 > 172.122	50692		10.940		na	109.4
3	MPFBA	INT STD	2.18	216.926 > 172.137	59850		10.849		na	108.5
4	PFPeA	2706-90-3	5.07	262.926 > 219.002	81316		9.376		na	93.8
5	M5PFPEA	INT STD	5.07	267.989 > 223.081	89798		11.477		na	114.8
6	PFBS	375-73-5	5.70	298.926 > 79.923	13578		7.758	1.88	NO	87.7
7	M3PFBS	INT STD	5.71	301.989 > 80.254	11913		10.750		na	107.5
8	4:2FTS	757124-72-4	6.85	326.926 > 306.957	8494		8.820	2.18	NO	94.3
9	M2-4:2FTS	INT STD	6.85	329.117 > 309.079	8909		12.382		na	123.8
10	PFHxA	307-24-4	6.94	312.989 > 269.028	87848		8.886	18.95	NO	88.9
11	M5PFHxA	INT STD	6.93	317.989 > 273.045	107387		10.900		na	109.0
12	PFPeS	2706-91-4	7.24	348.926 > 80.251	9189		7.450	1.69	NO	79.3
13	PFHpA	375-85-9	8.16	362.926 > 319.014	119154		9.097	5.95	NO	91.0
14	M4PFHpA	INT STD	8.16	366.926 > 321.979	145206		11.064		na	110.6
15	br-PFHxS	355-46-4	8.09	398.926 > 80.295	1230	M5	1.404	2.26	NO	82.6
16	L-PFHxS	355-46-4	8.31	398.926 > 80.295	6132		6.638	1.14	NO	89.7
17	PFHxS	355-46-4		398.926 > 80.295	7362		8.042		na	
18	M3PFHxS	INT STD	8.31	401.926 > 80.317	7375		11.530		na	115.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.07	412.989 > 368.9	117321		8.946	10.39	NO	89.5
21	PFOA	335-67-1		412.989 > 368.9	117321		8.946		na	
22	M8PFOA	INT STD	9.07	420.989 > 375.979	142822		11.341		na	113.4
23	M2PFOA	INT STD	9.07	415.032 > 369.968	128707		12.175		na	121.8
24	6:2FTS	27619-97-2	9.03	426.989 > 406.921	6810		9.992	13.52	NO	105.2
25	M2-6:2FTS	INT STD	9.03	428.989 > 408.917	8602		12.232		na	122.3
26	PFHpS	375-92-8	9.15	448.926 > 80.257	5700		9.326	0.89	YES	98.2
27	PFNA	375-95-1	9.82	462.989 > 418.931	109524		9.236	4.41	NO	92.4
28	M9PFNA	INT STD	9.82	472.053 > 426.947	144746		11.681		na	116.8
29	br-PFOS	1763-23-1	9.68	498.989 > 80.294	2033	M5	1.672	3.67	NO	83.6
30	L-PFOS	1763-23-1	9.86	498.989 > 80.294	5925		6.504	1.58	YES	89.1
31	PFOS	1763-23-1		498.989 > 80.294	7959		8.176		na	
32	M4PFOS	INT STD	9.87	503.032 > 80.306	7917		11.337		na	113.4
33	M8PFOS	INT STD	9.87	507.053 > 80.294	9283		11.426		na	114.3
34	PFDA	335-76-2	10.46	513.053 > 468.906	109003		9.264	6.96	NO	92.6
35	M2PFDA	INT STD	10.46	515.053 > 469.934	120268		13.622		na	136.2
36	M6PFDA	INT STD	10.46	519.053 > 473.931	137156		11.035		na	110.3
37	8:2FTS	39108-34-4	10.45	526.926 > 506.818	5756		9.312		na	97.0
38	M2-8:2FTS	INT STD	10.45	529.053 > 508.945	5854		14.191		na	141.9
39	PFNS	68259-12-1	10.49	548.989 > 80.249	8186		9.480	1.27	NO	98.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.86	573.096 > 418.987	15469		10.928		na	109.3
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.86	570.053 > 418.917	14268	M4	9.896	2.41	NO	99.0
43	NMeFOSAA	2355-31-9		570.053 > 418.917	14268		9.896		na	
44	PFUnA	2058-94-8	11.02	562.989 > 518.903	118663		9.540	9.00	NO	95.4
45	M7-PFUDA	INT STD	11.02	570.053 > 524.923	130062		11.795		na	117.9
46	PFDS	335-77-3	11.03	598.926 > 80.314	5778		9.362	1.02	NO	97.0
47	FOSA	754-91-6	10.92	497.989 > 78.245	22836		8.780	149.46	NO	87.8
48	M8FOSA	INT STD	10.92	506.053 > 78.286	24476		8.329		na	83.3
49	d5-NEtFOSAA	INT STD	11.15	589.117 > 418.929	12247		9.794		na	97.9
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.16	583.989 > 418.927	10161	M4	8.789	2.77	NO	87.9
52	NEtFOSAA	2991-50-6		583.989 > 418.927	10161		8.789		na	
53	PFDoA	307-55-1	11.51	612.989 > 568.967	107838		9.545	14.02	NO	95.5
54	MPFDOA	INT STD	11.50	614.989 > 569.92	133383		10.782		na	107.8
55	PFTrDA	72629-94-8	11.92	663.053 > 618.969	97360		10.778	10.90	NO	107.8
56	PFTA	376-06-7	12.29	713.053 > 668.976	80975		9.671	8.78	NO	96.7
57	M2PFTEDA	INT STD	12.29	715.053 > 669.945	104555		10.640		na	106.4
58	M3HFPO-DA	INT STD	7.36	331.989 > 286.995	6046		109.580		na	54.8
59	HFPO-DA	13252-13-6	7.36	284.819 > 169.094	10608		211.308	2.58	YES	105.7
60	ADONA	958445-44-8	8.33	376.926 > 251.005	155587		8.287		na	87.6
61	PFHxDA		12.75	813.053 > 769.005	66648		10.846		na	108.5
62	PFODA		12.98	912.989 > 869.032	54606		12.136		na	121.4
63	M2PFHxDA		12.75	815.372 > 770.158	16807		8.035		na	80.4
64	PFDoS		11.91	698.649 > 79.853	6878		10.933	2.07	YES	109.3
65	10:2FTS		11.51	626.862 > 606.896	6313	M4	10.632		na	110.3
66	9CL-PF3ONS		10.23	530.862 > 350.843	53038		8.694		na	93.3
67	11CL-PFOUdS		11.30	630.862 > 450.854	44290		8.612		na	91.4

all concentration units in (ng/mL)

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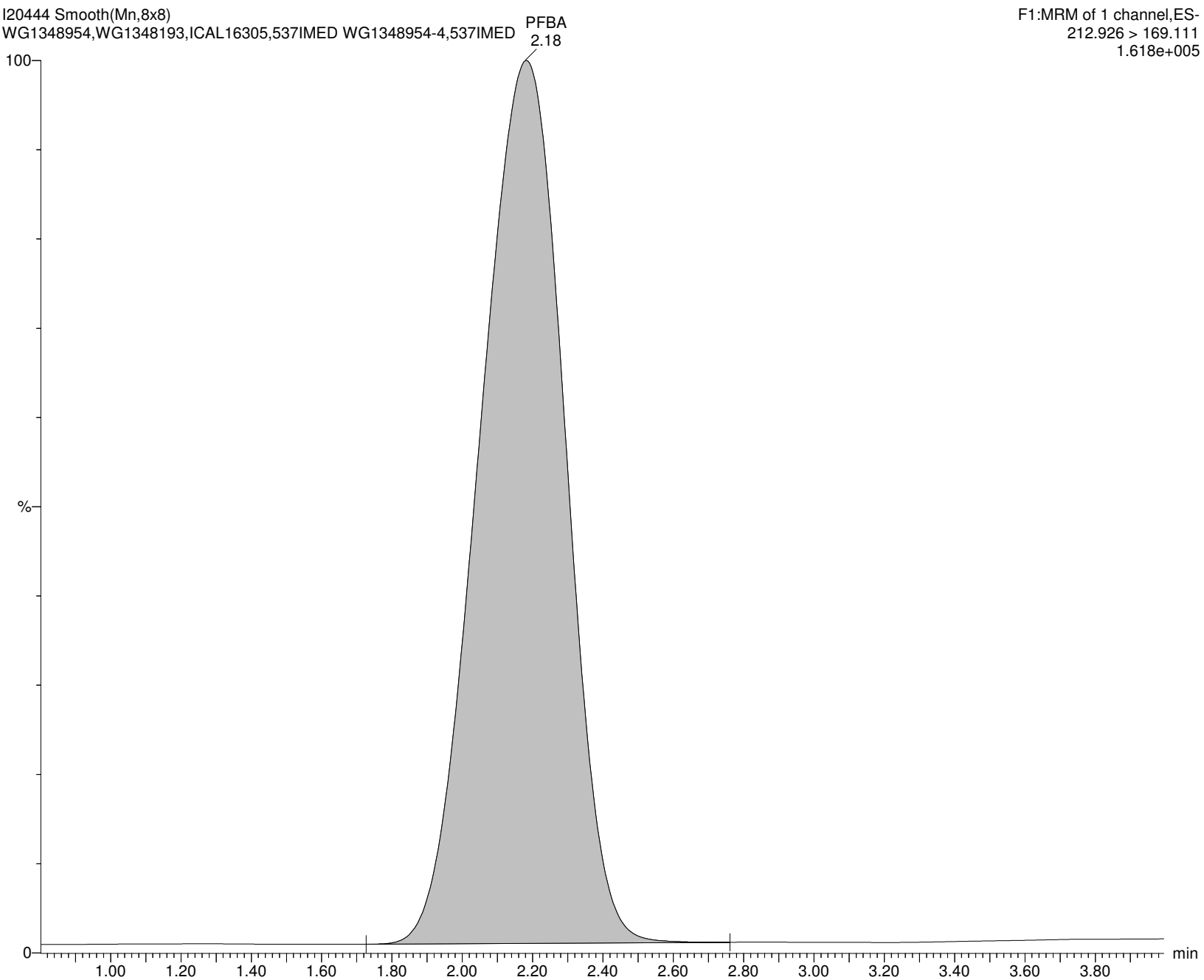

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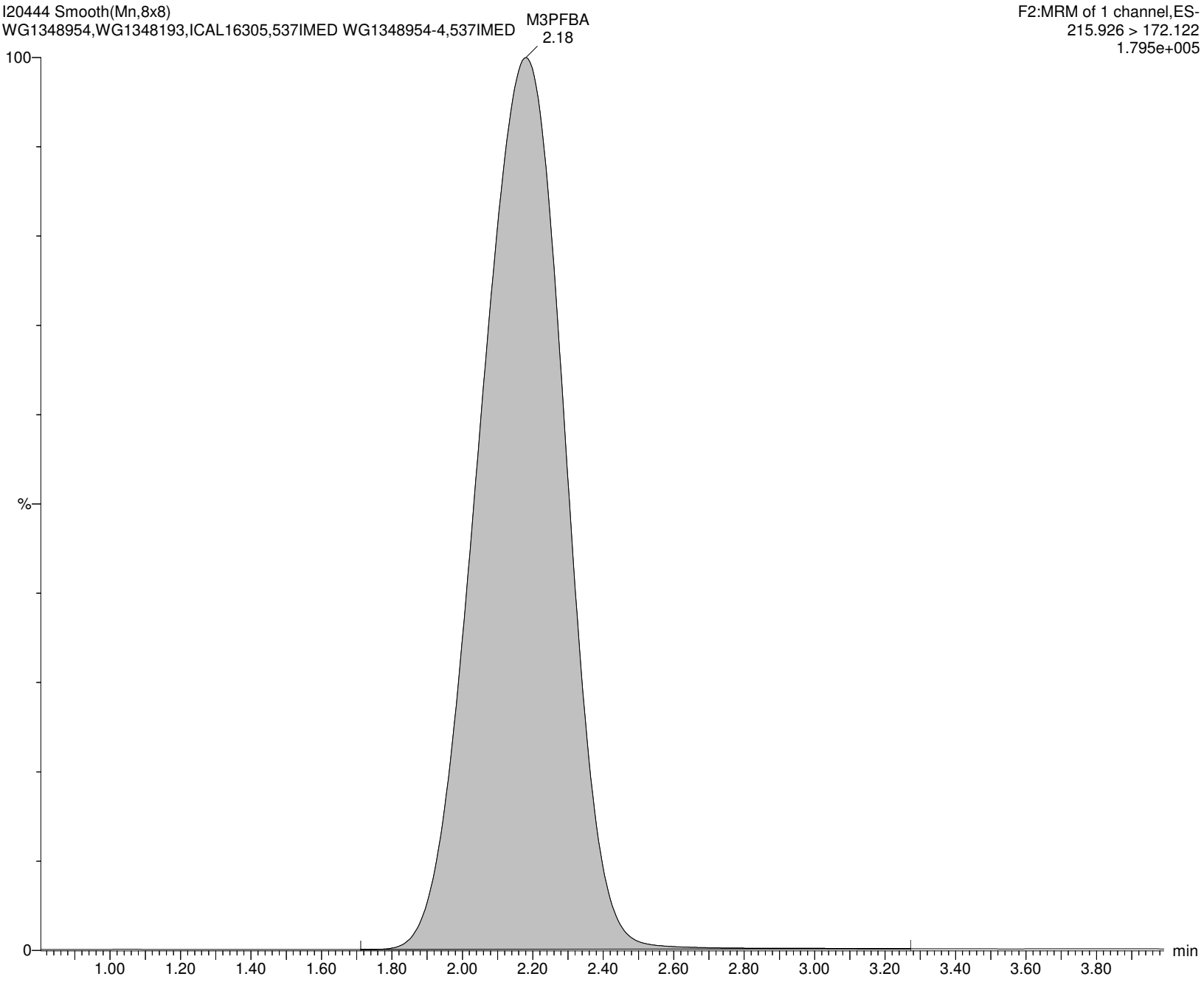

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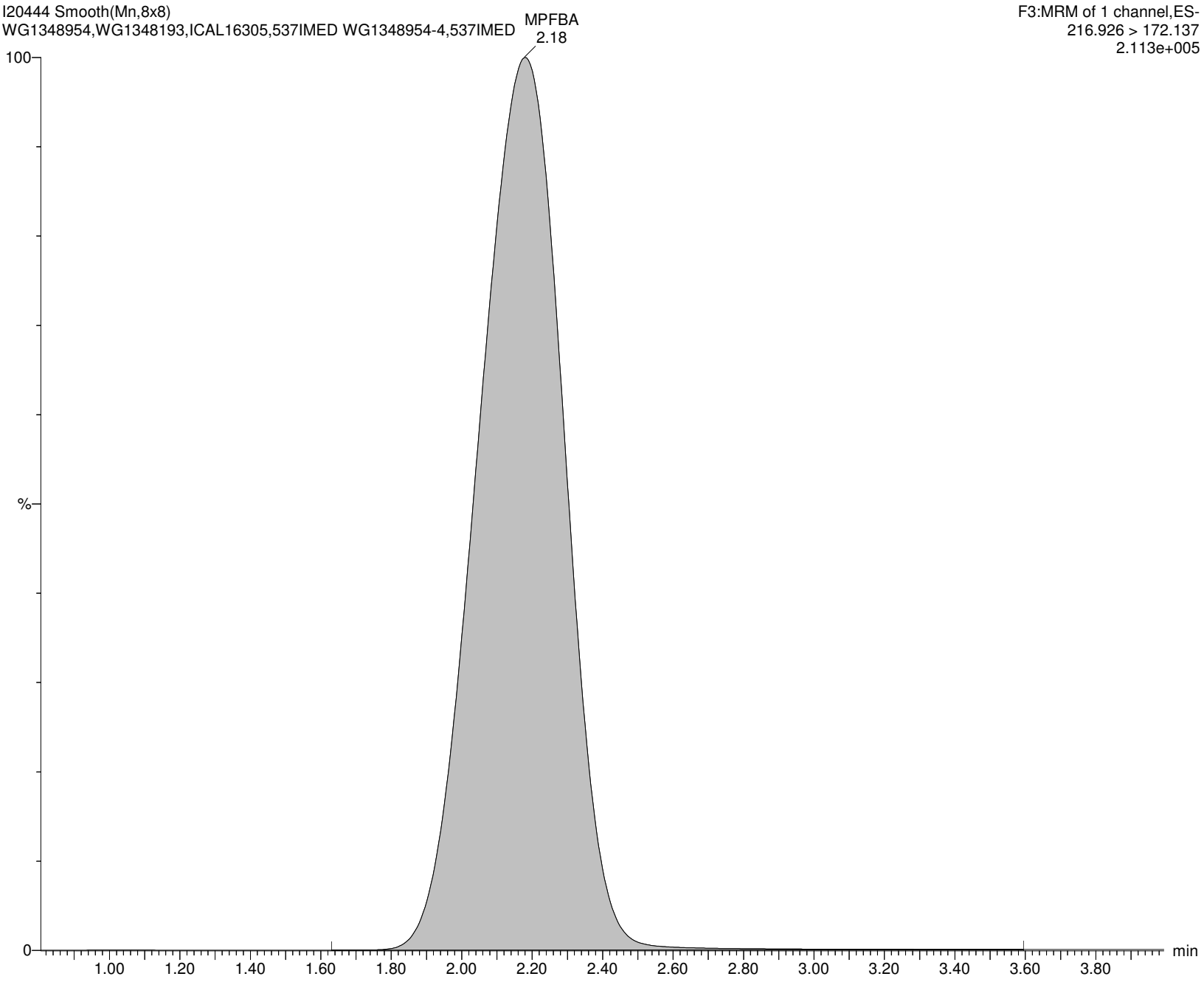

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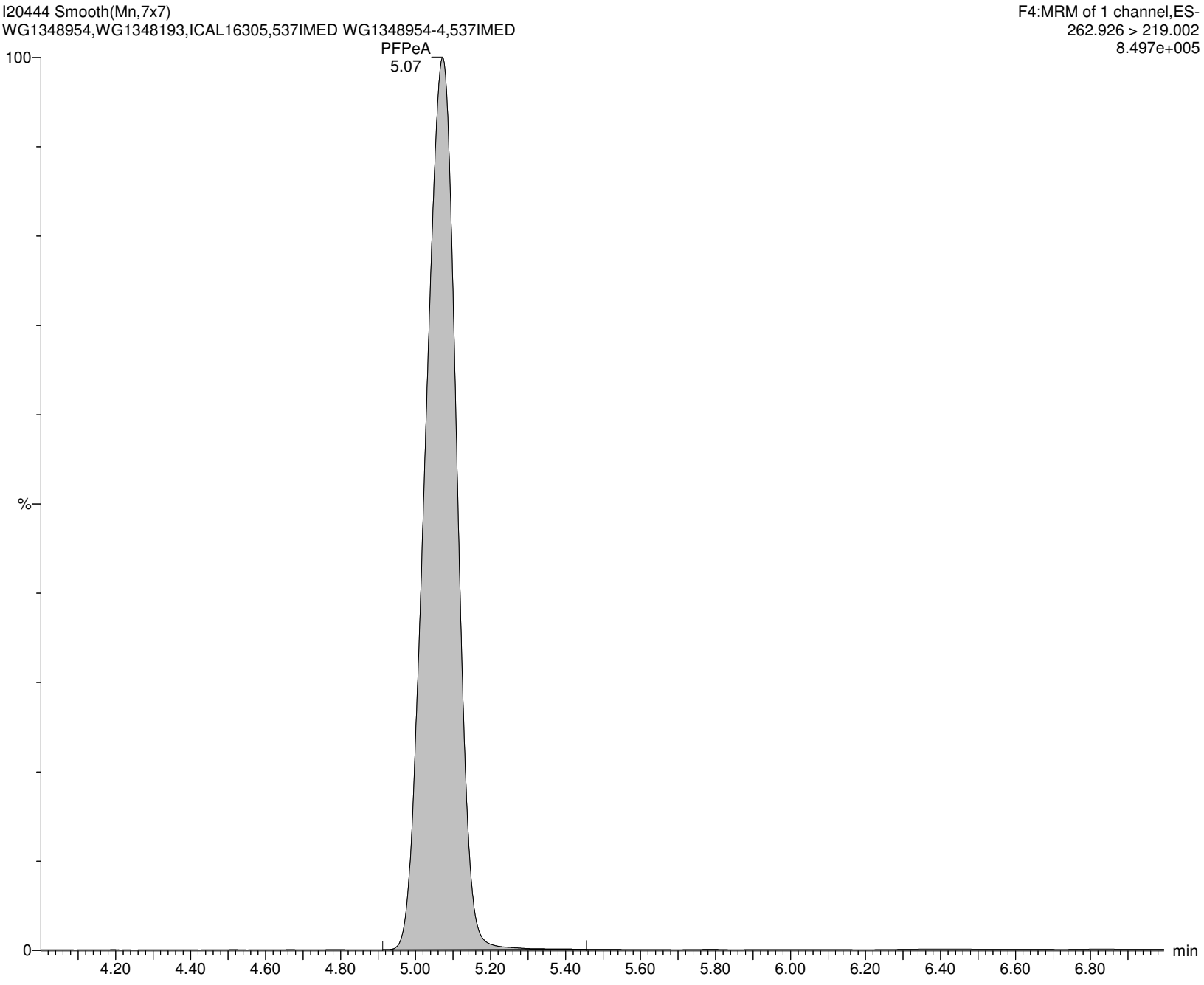

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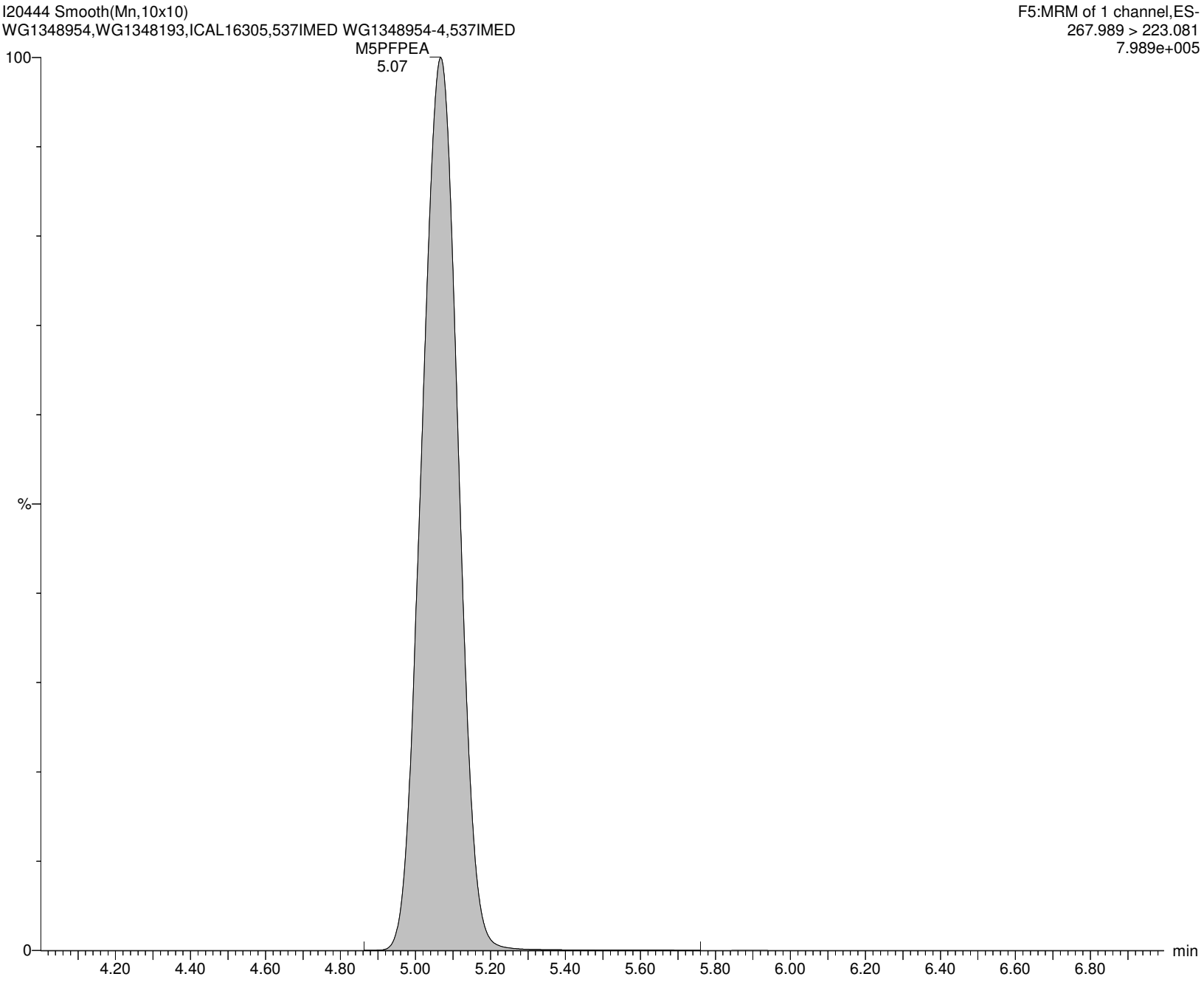

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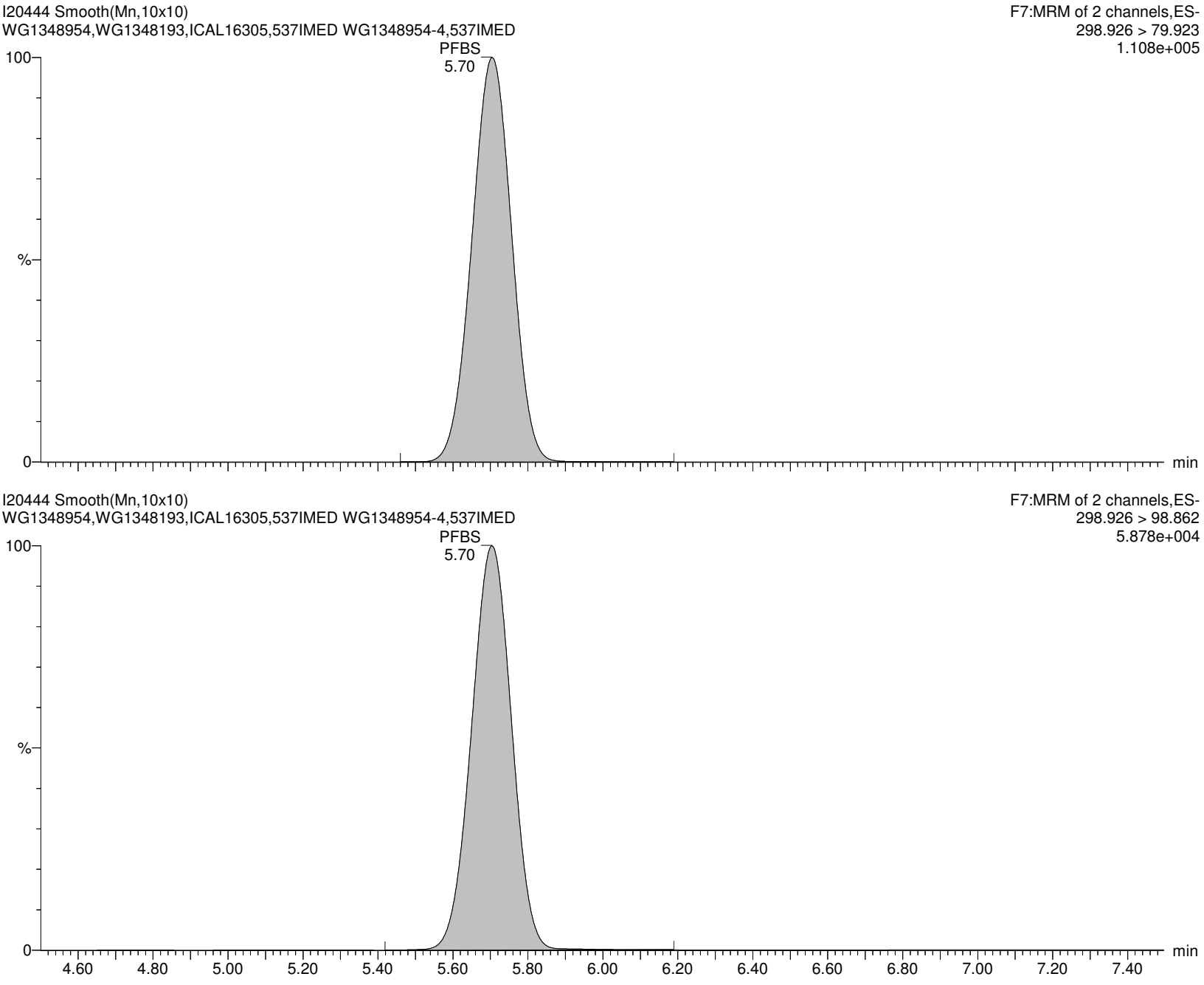

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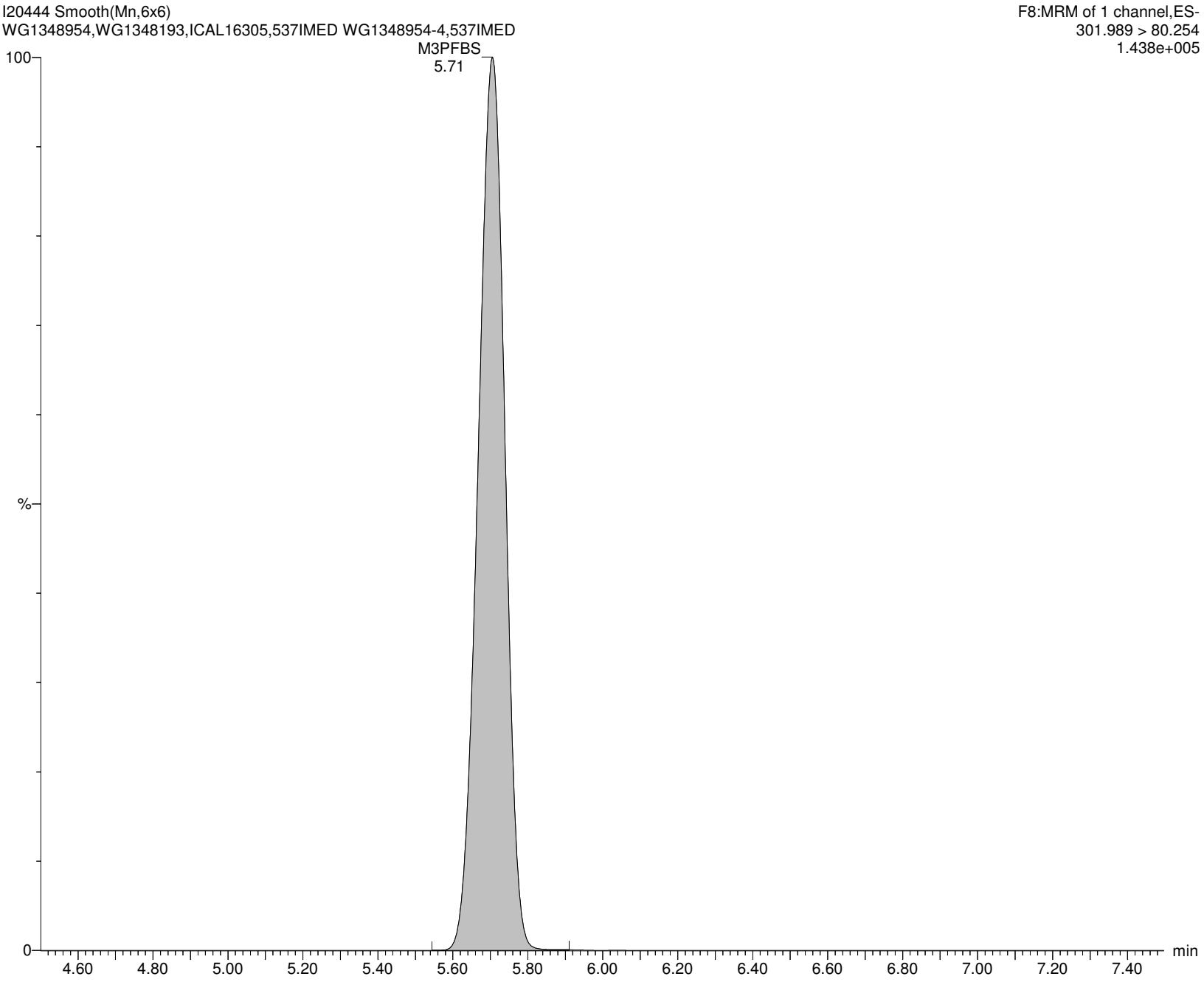

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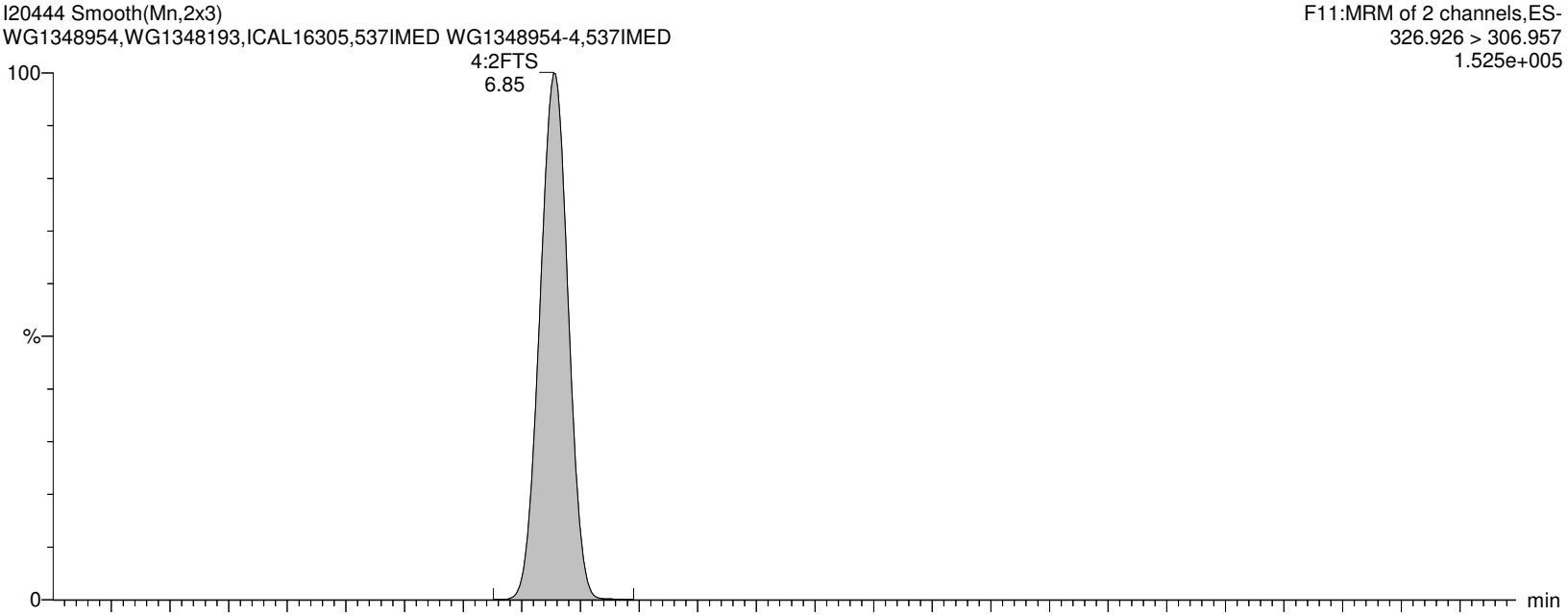

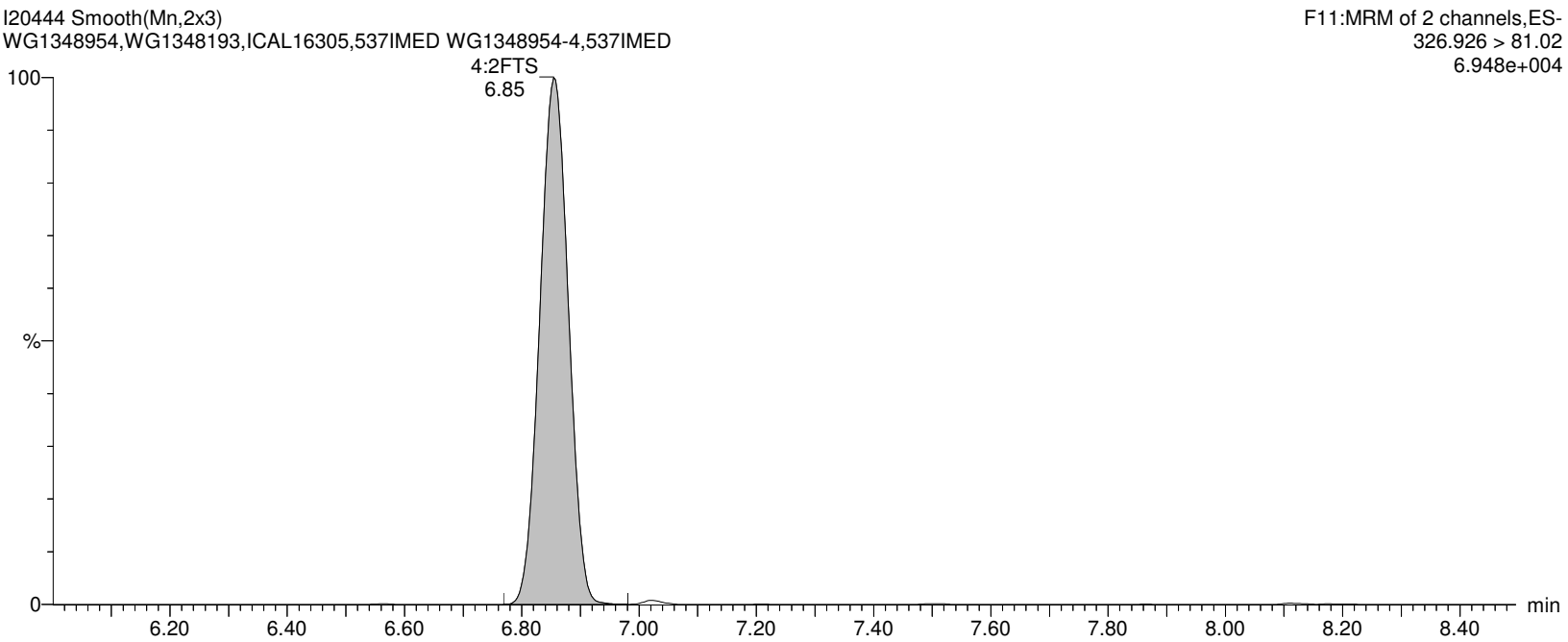

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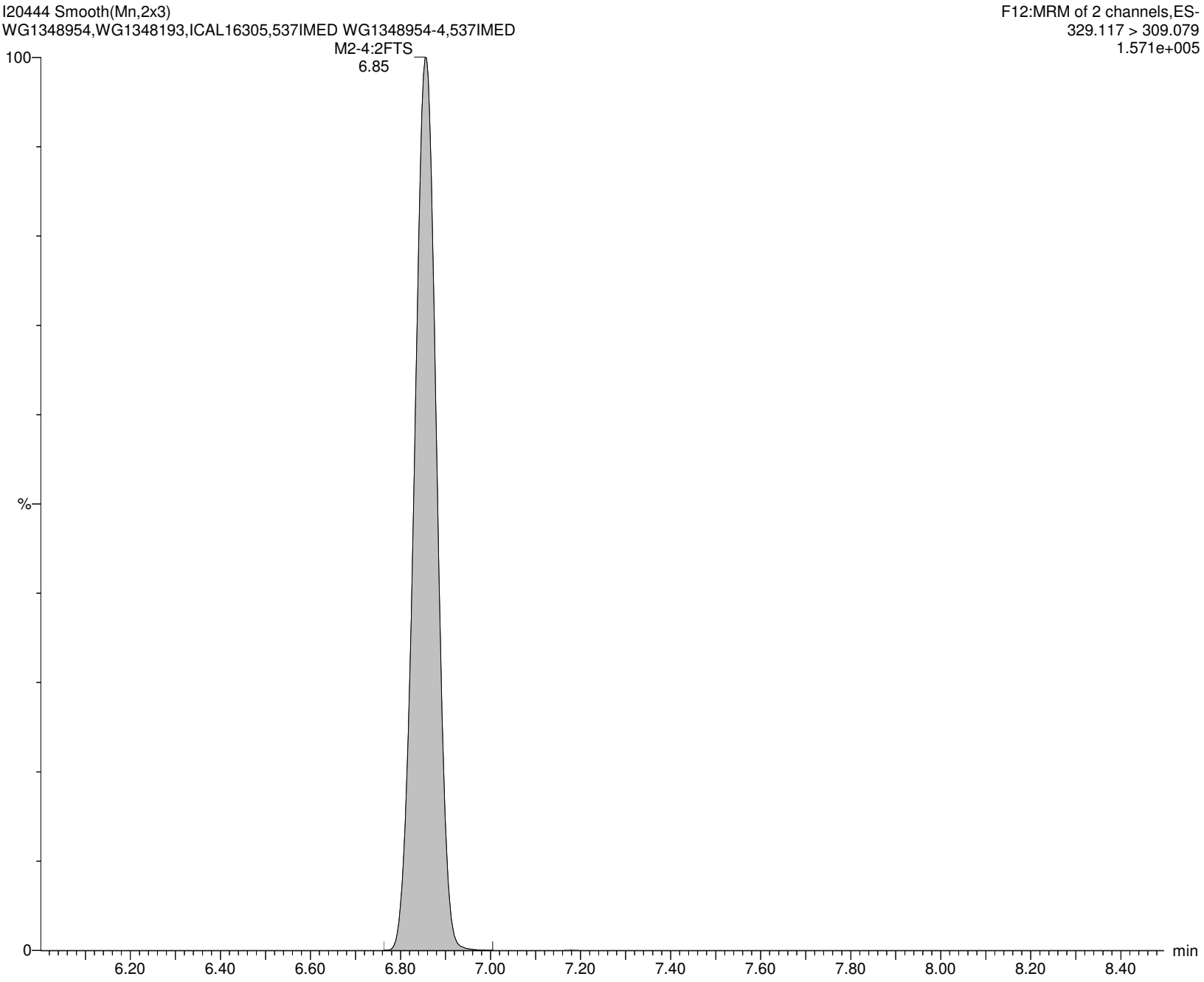

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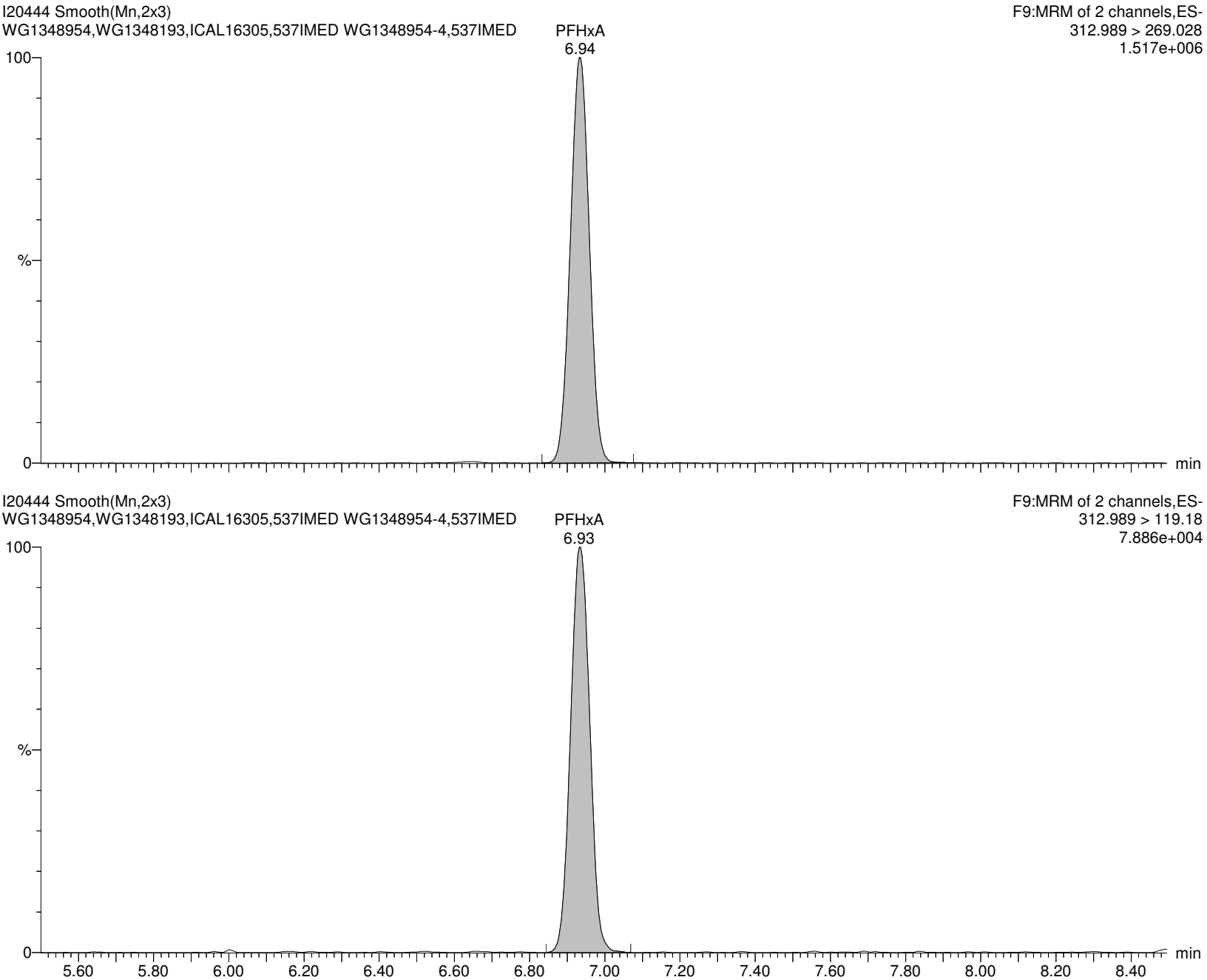

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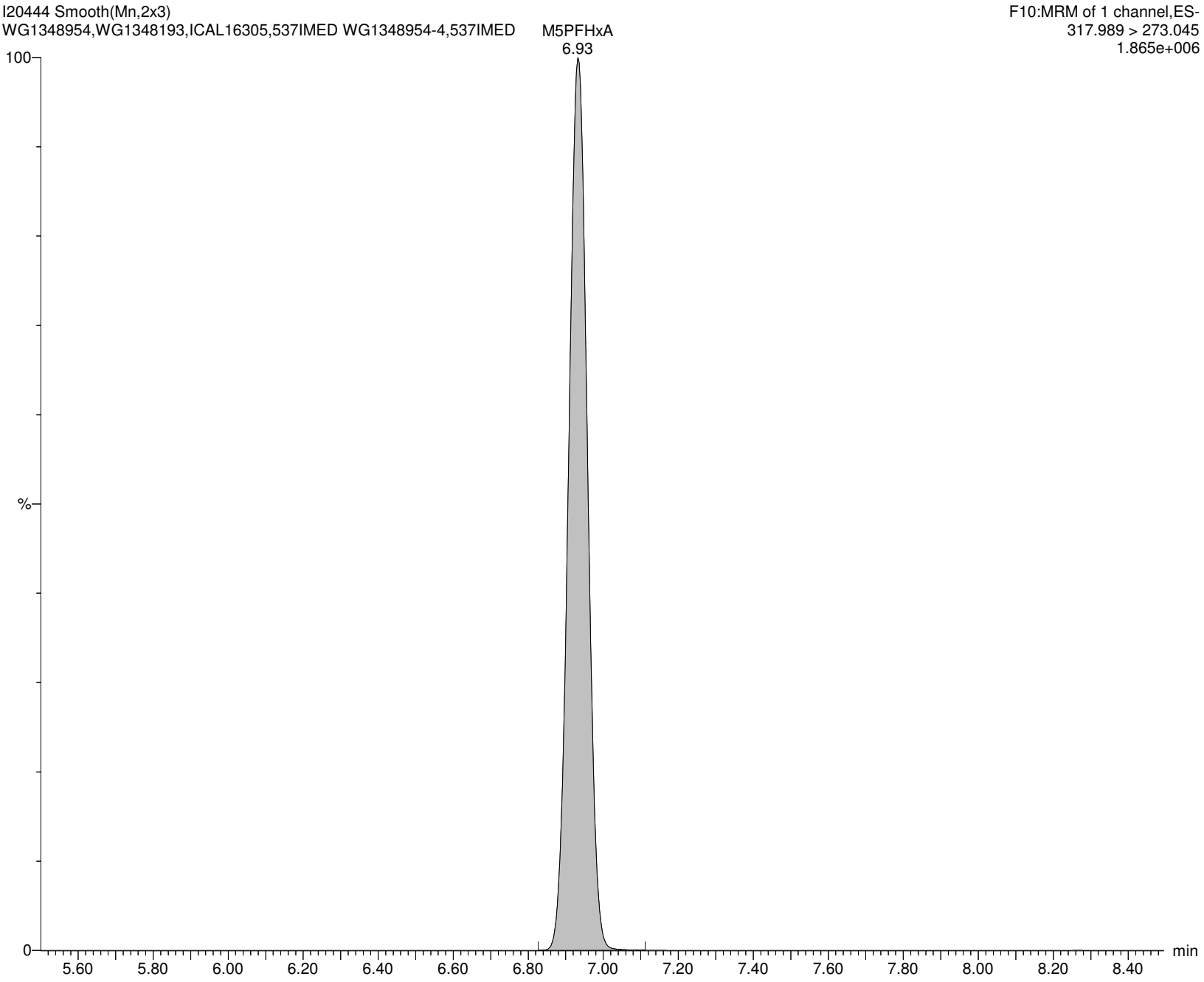

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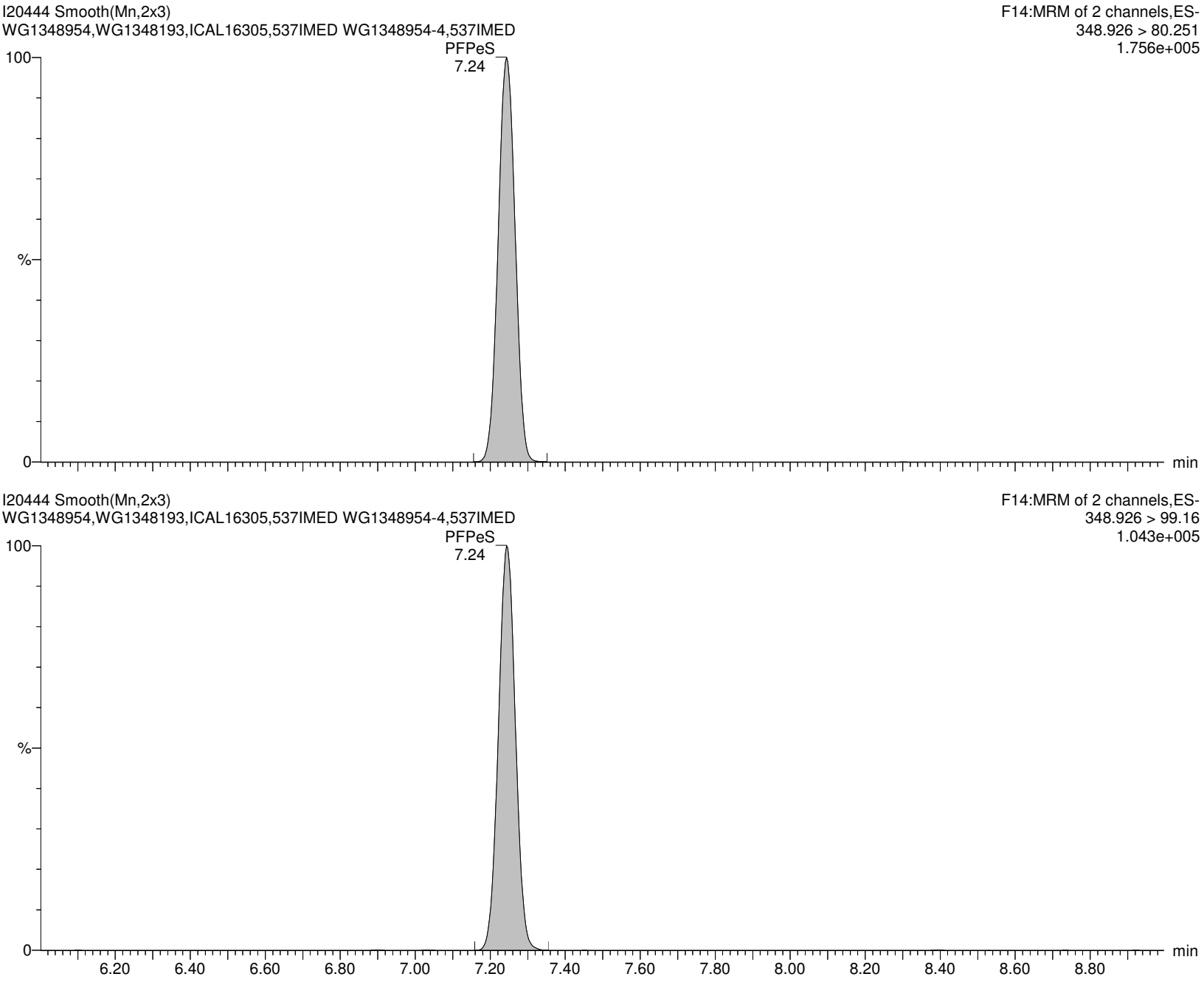

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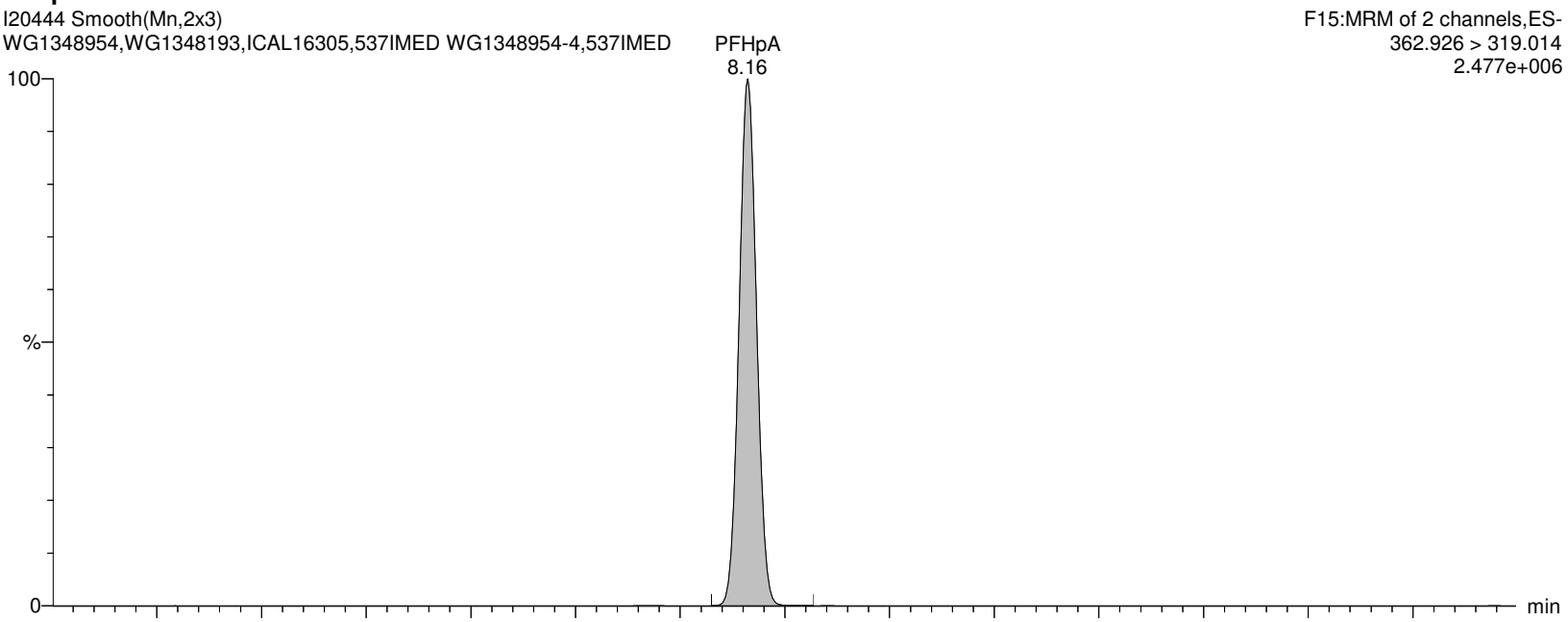

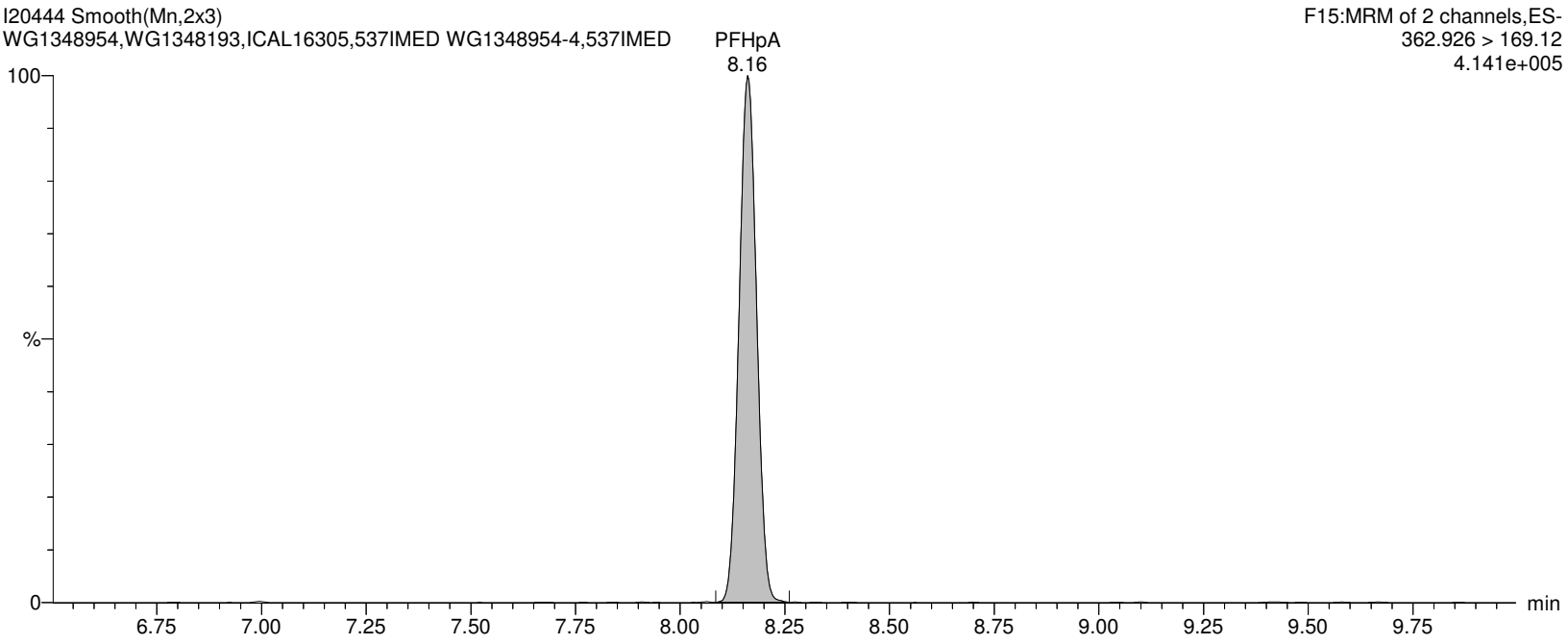

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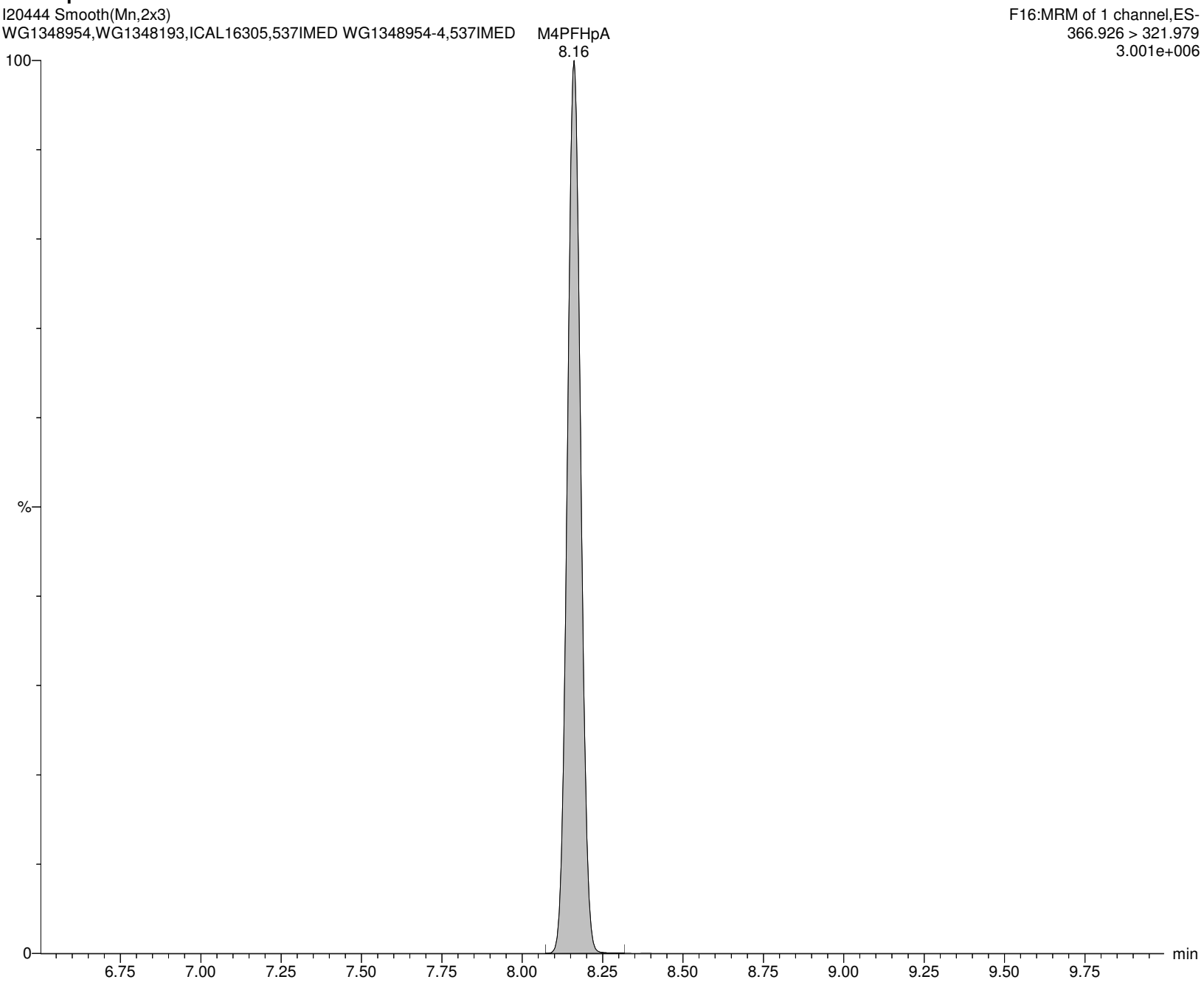

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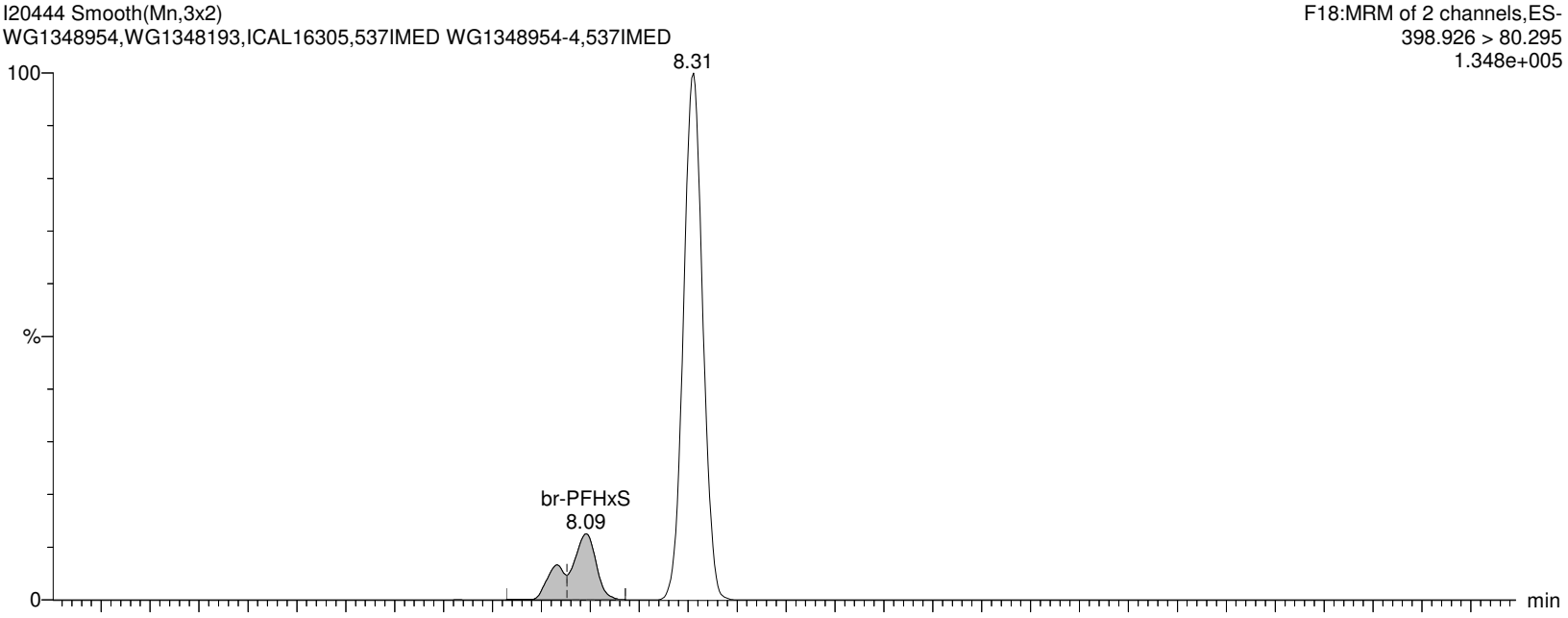

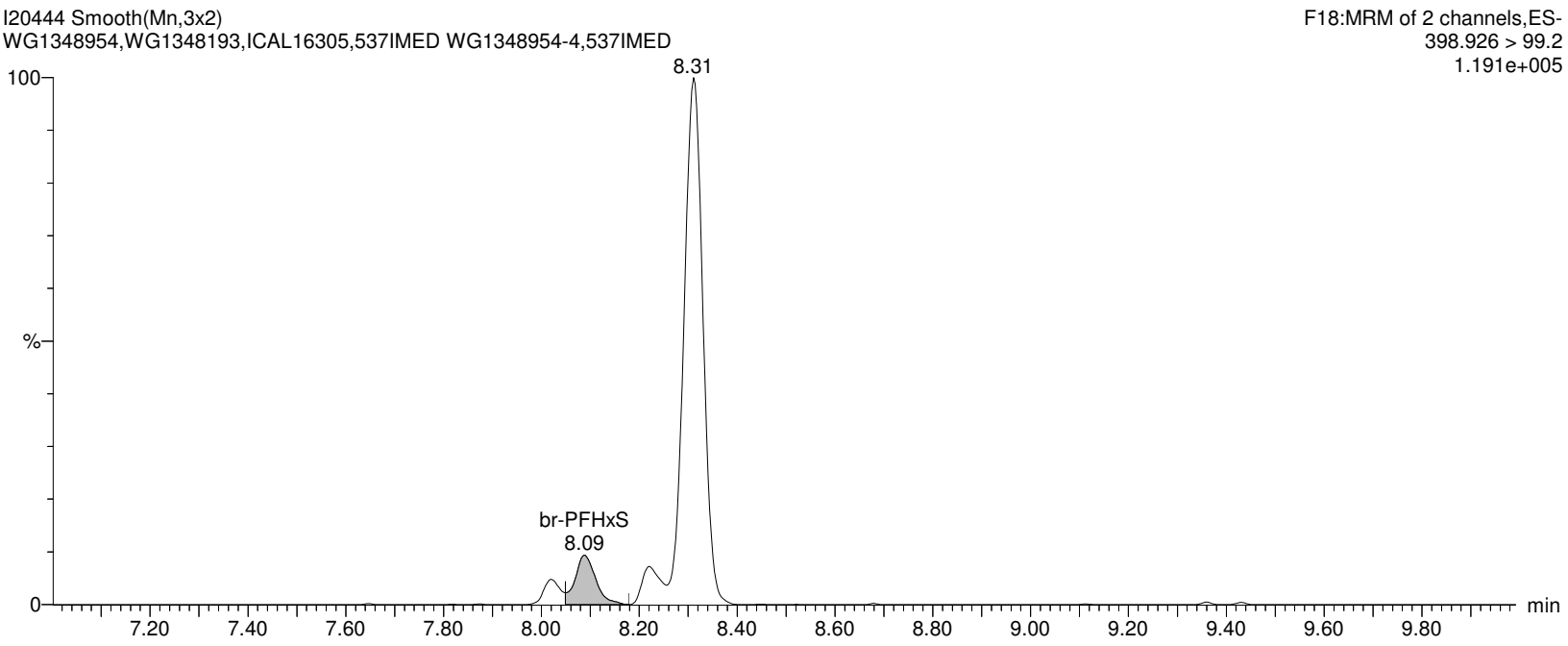

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
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Name: I20444
ID: WG1348954-4,537IMED
Date: 10-Mar-2020
Time: 23:50:12
Description: WG1348954,WG1348193,ICAL16305,537IMED
User: LCMS02:RS
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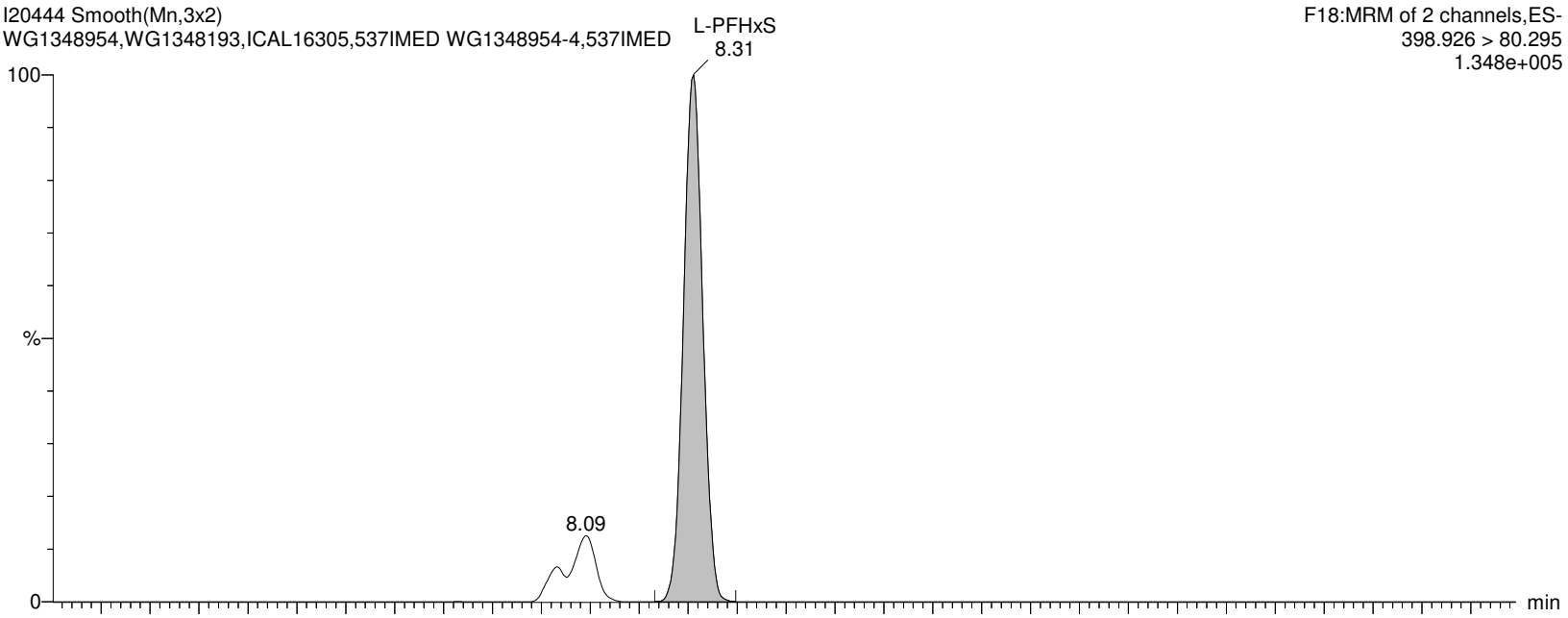

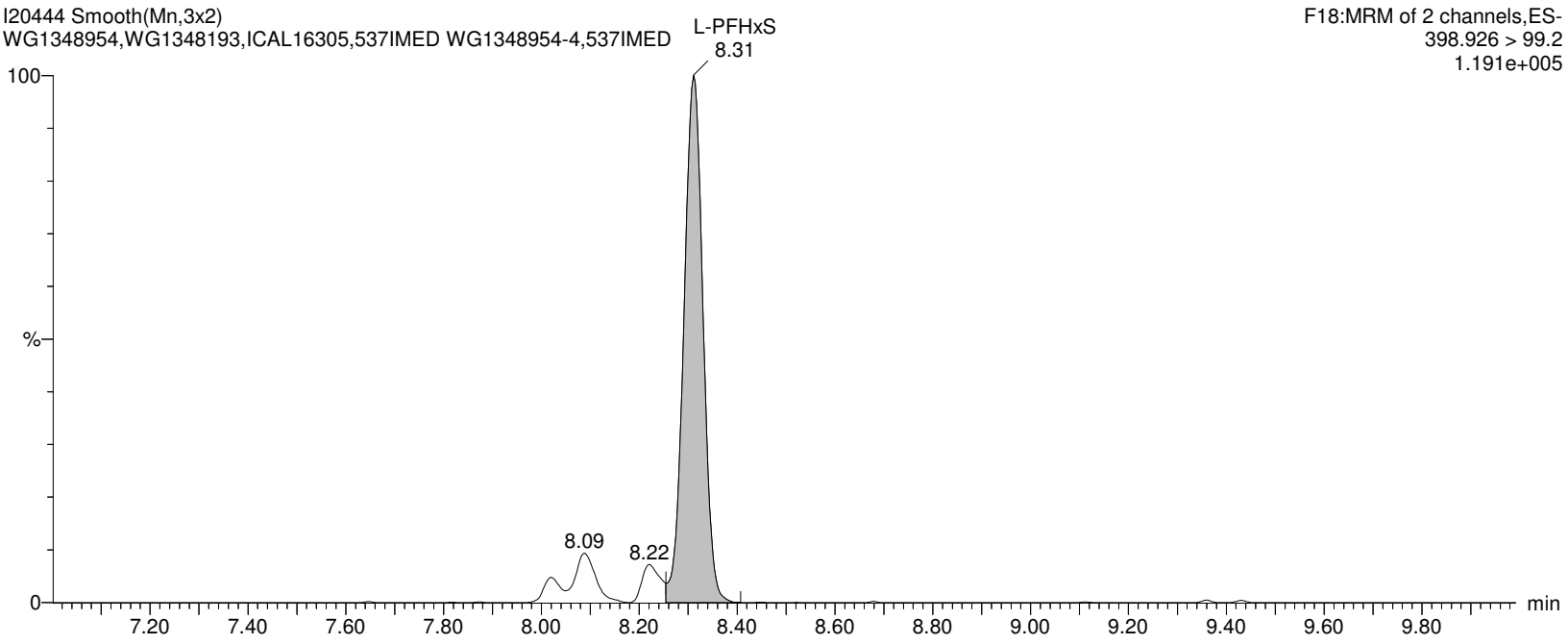

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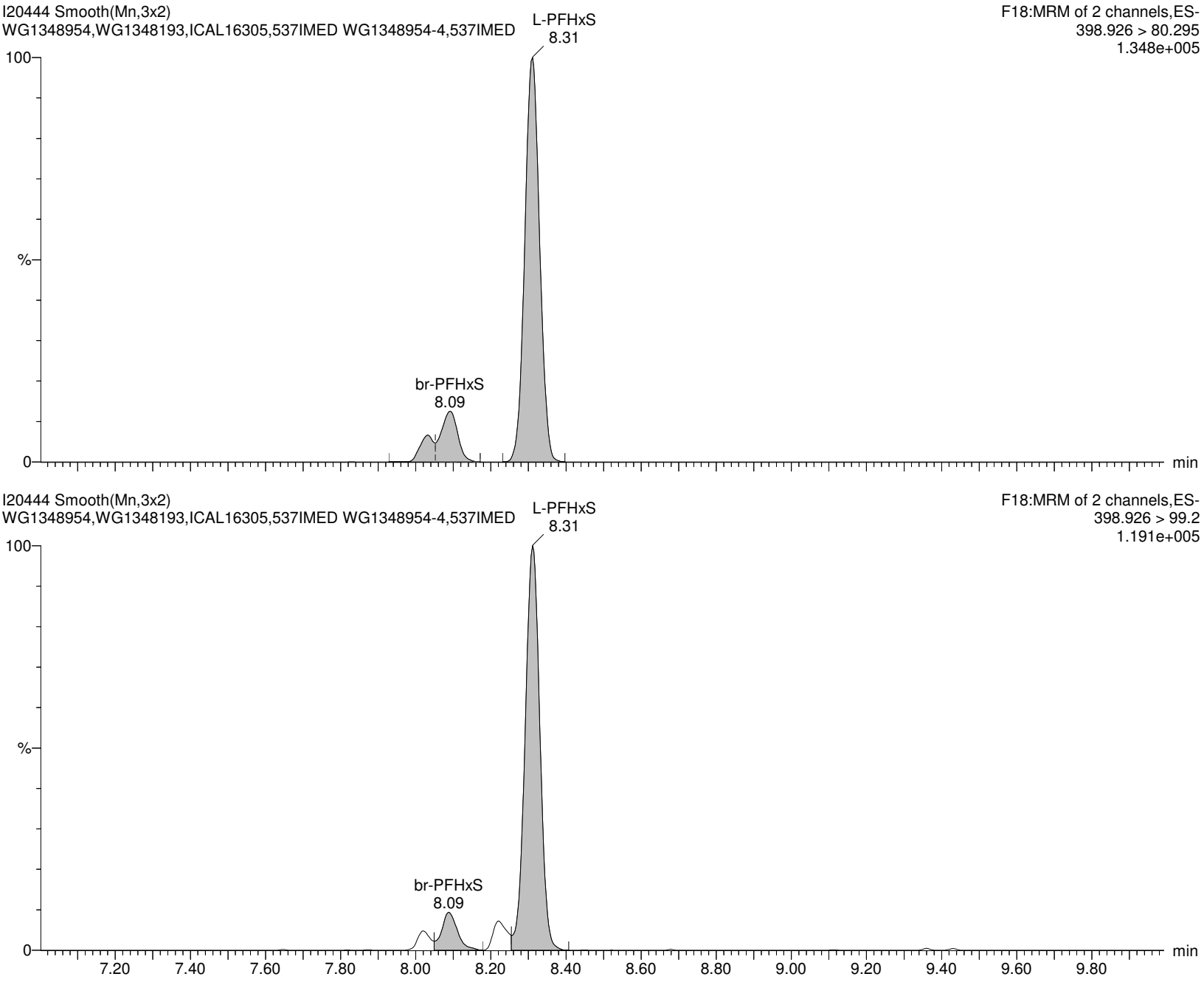

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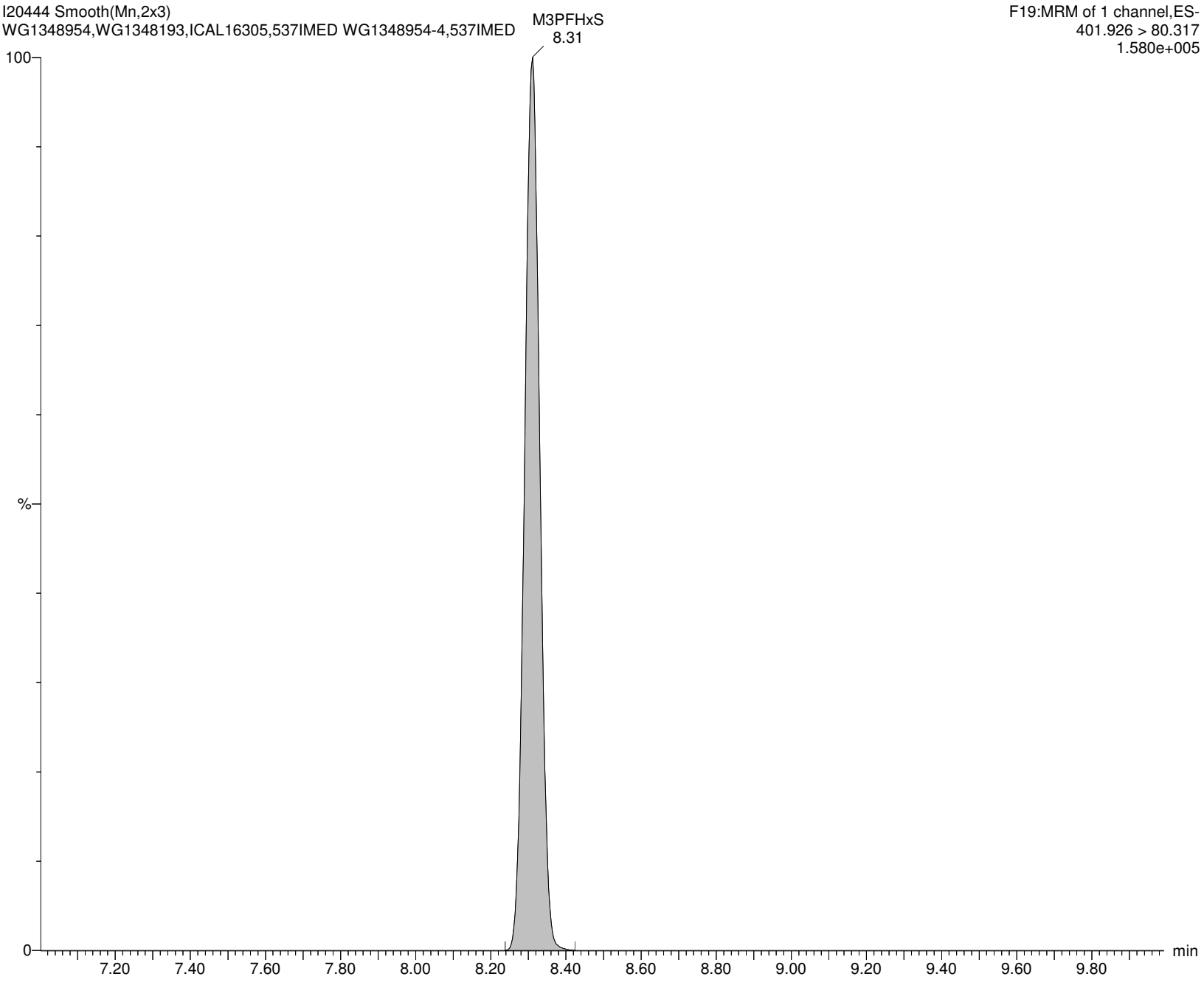

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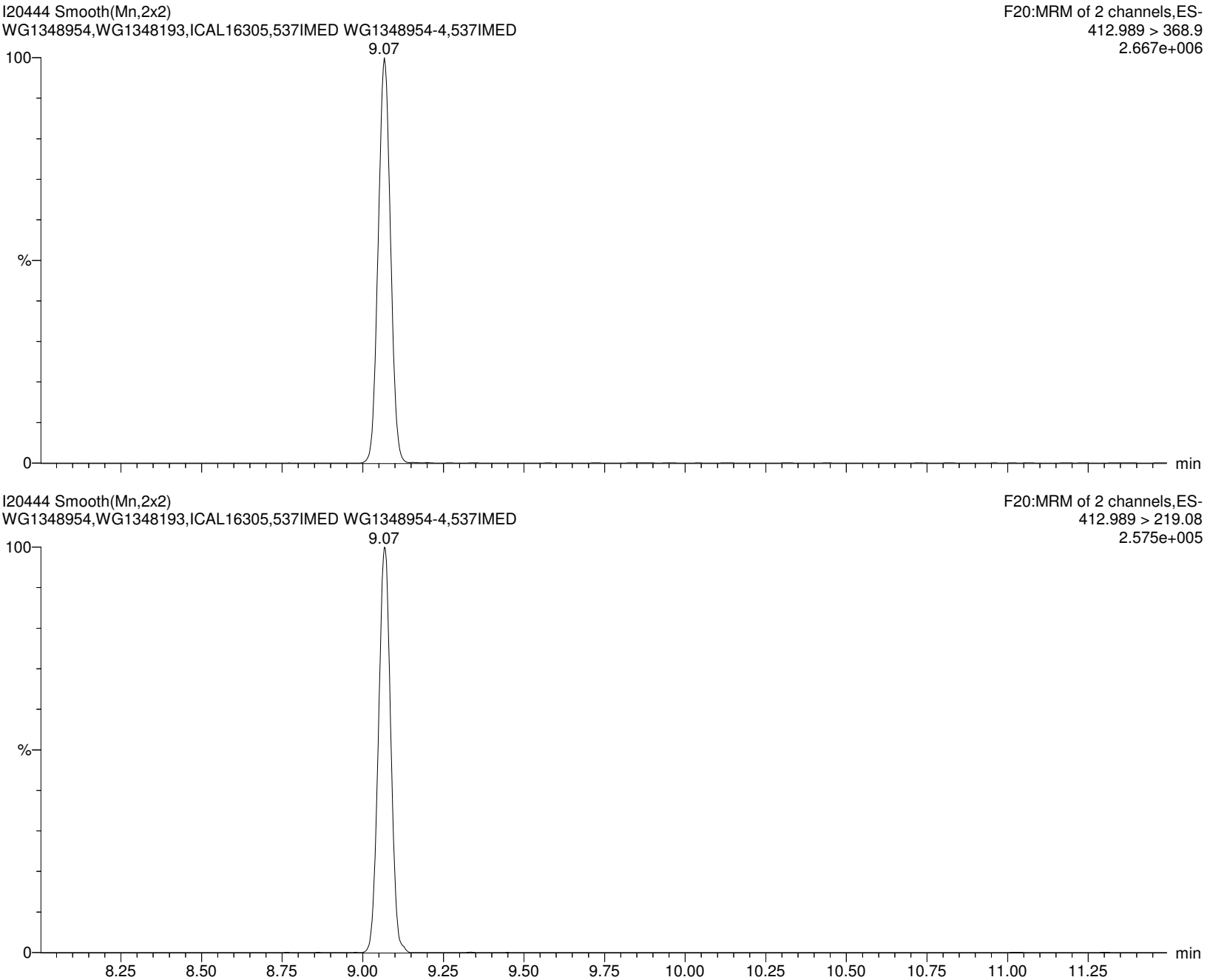

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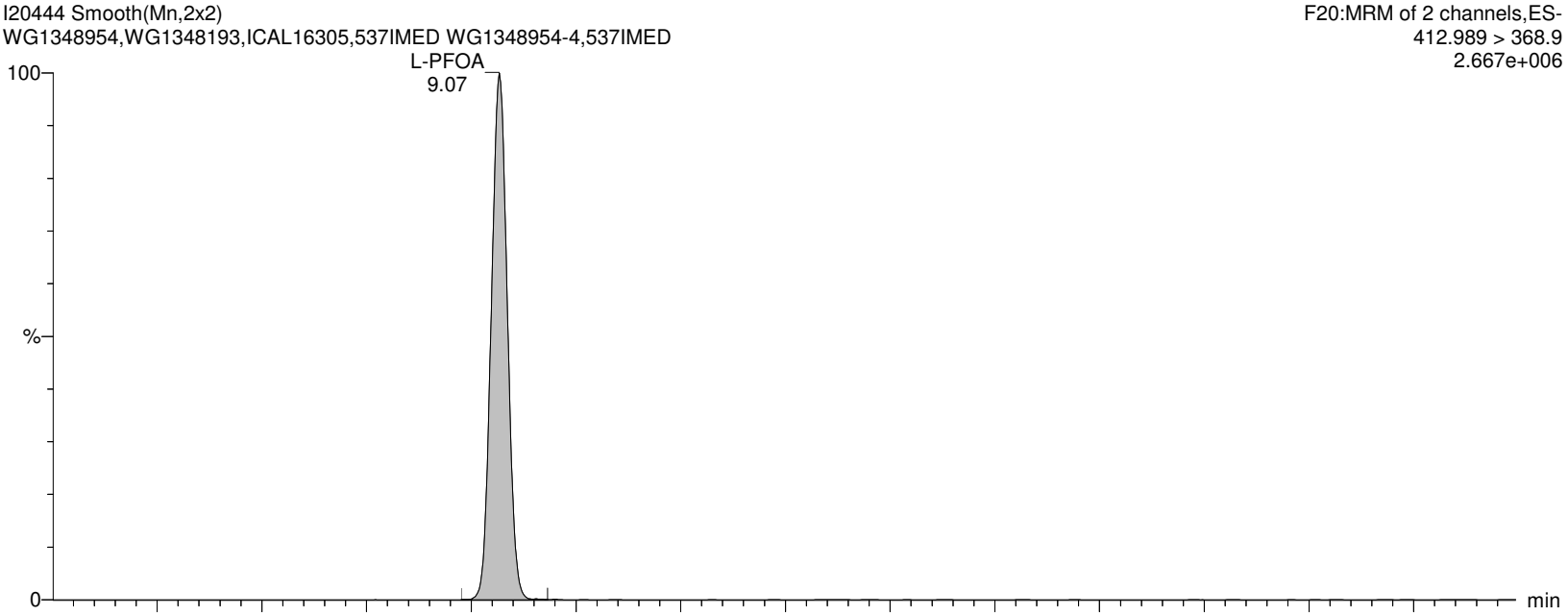

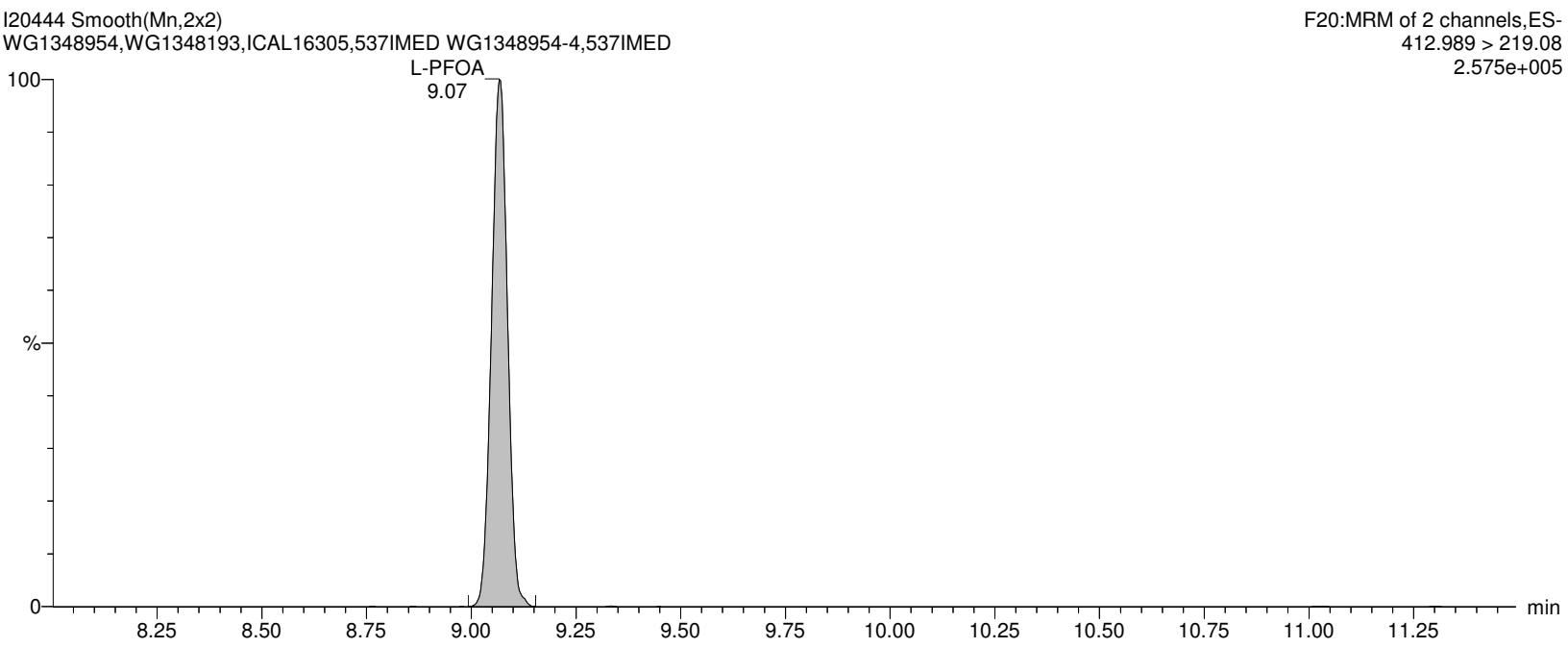

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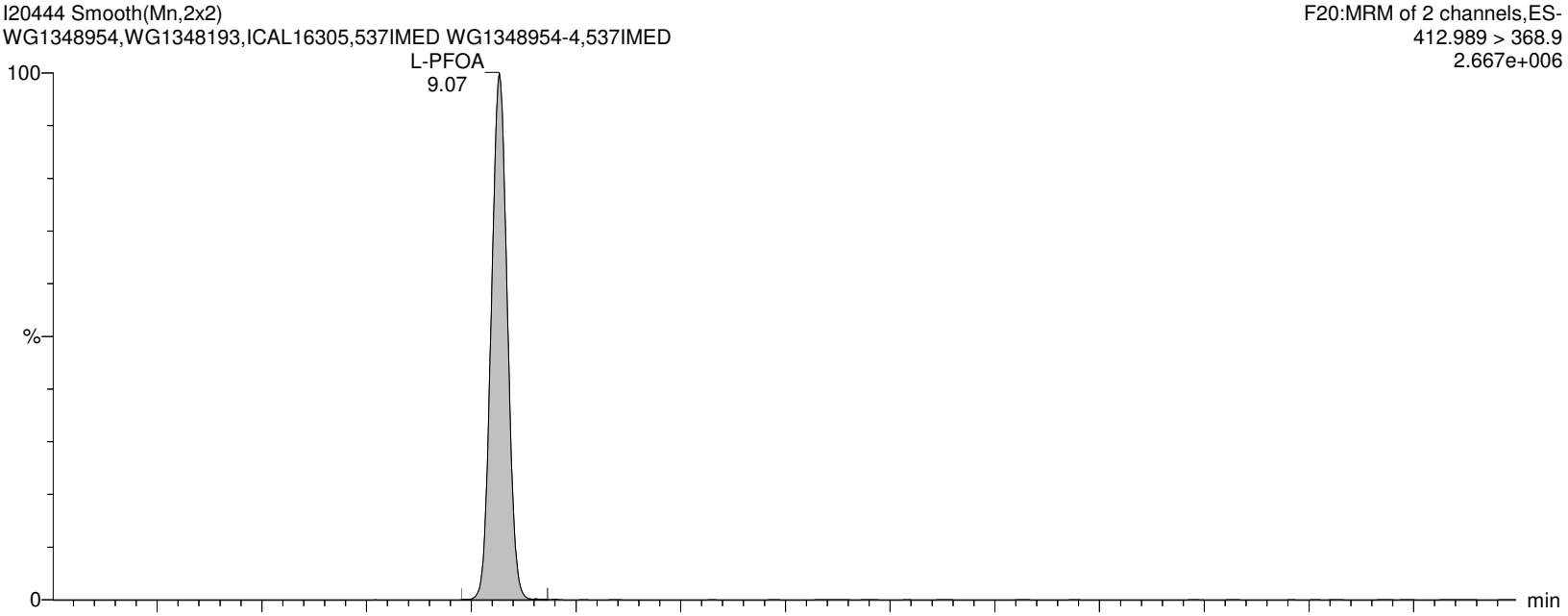

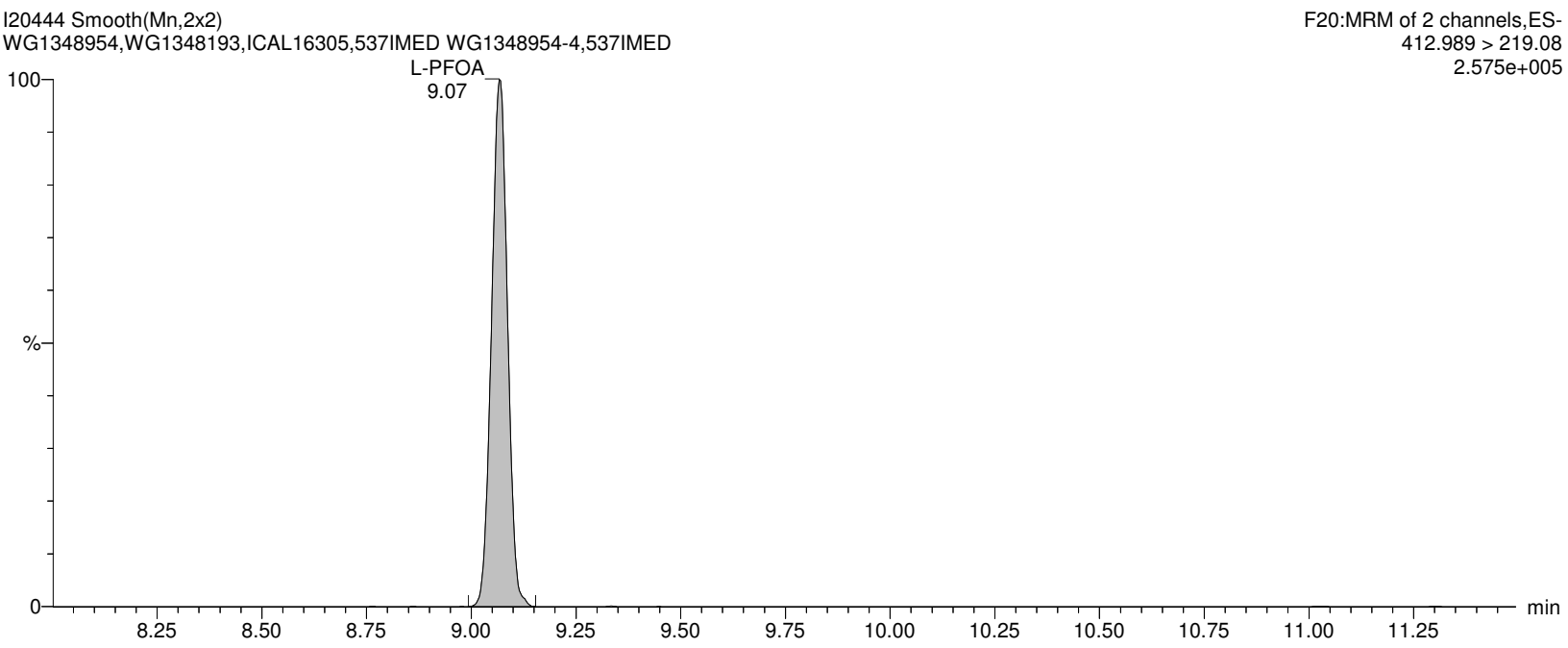

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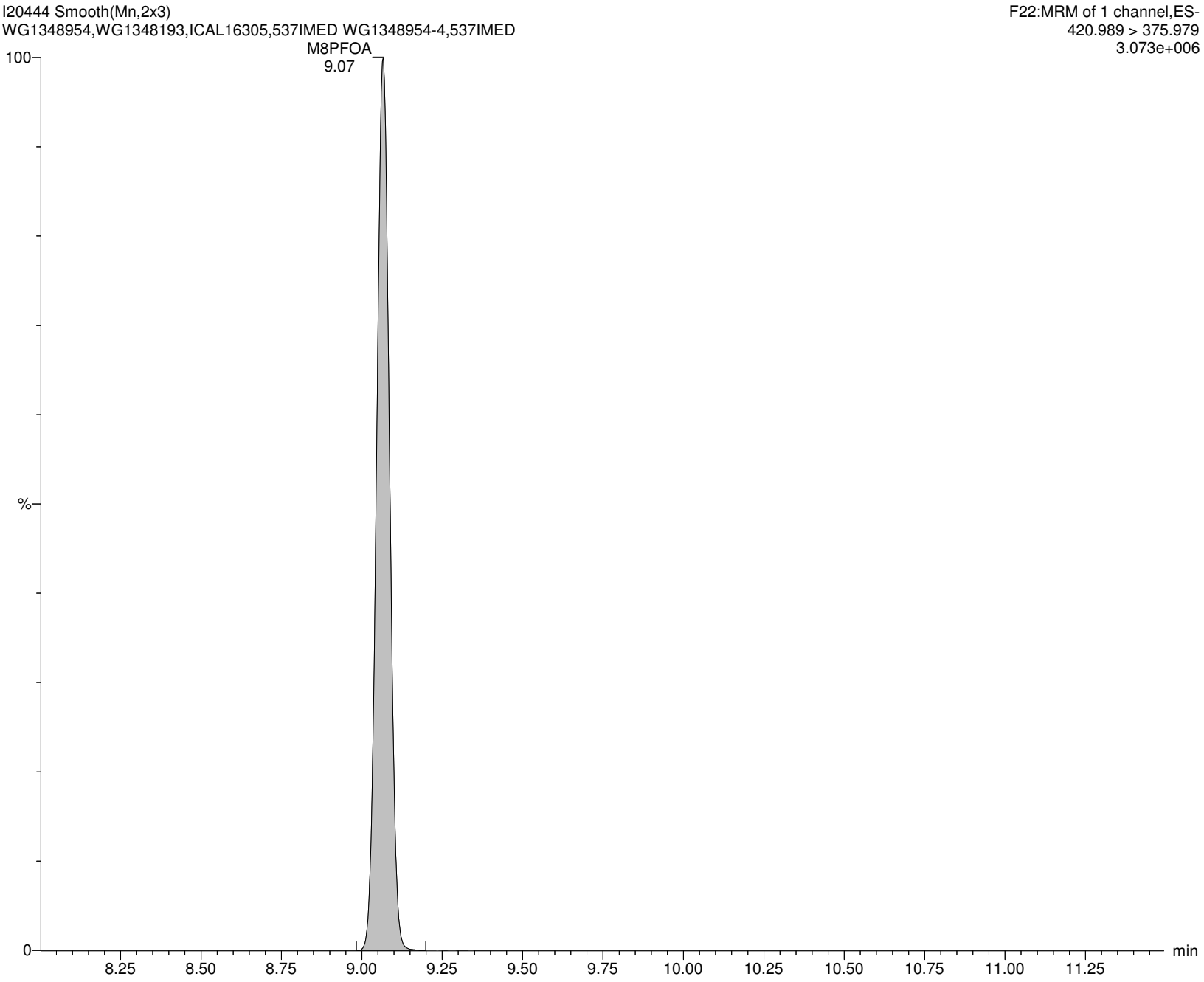

all concentration units in (ng/mL)

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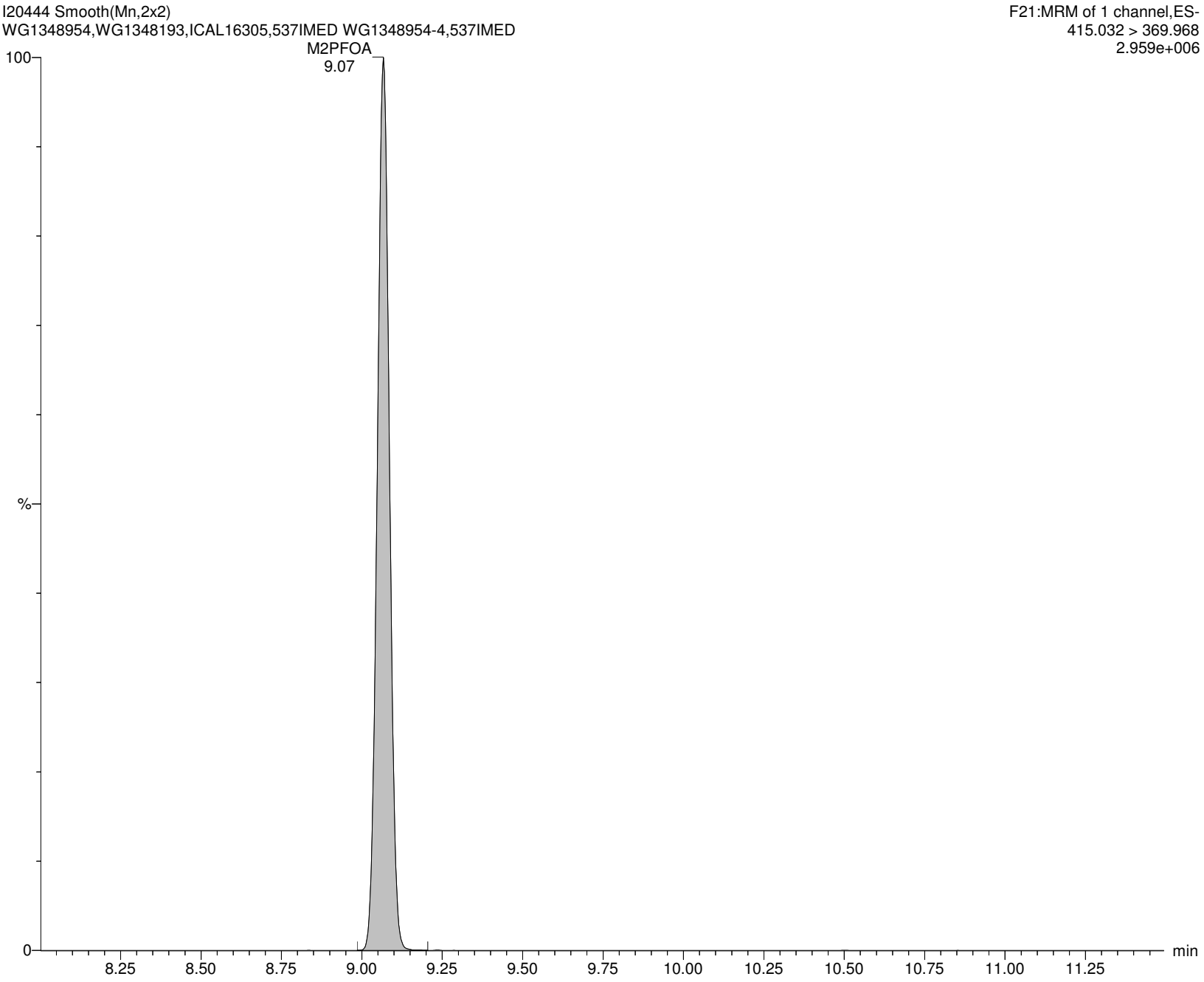

all concentration units in (ng/mL)

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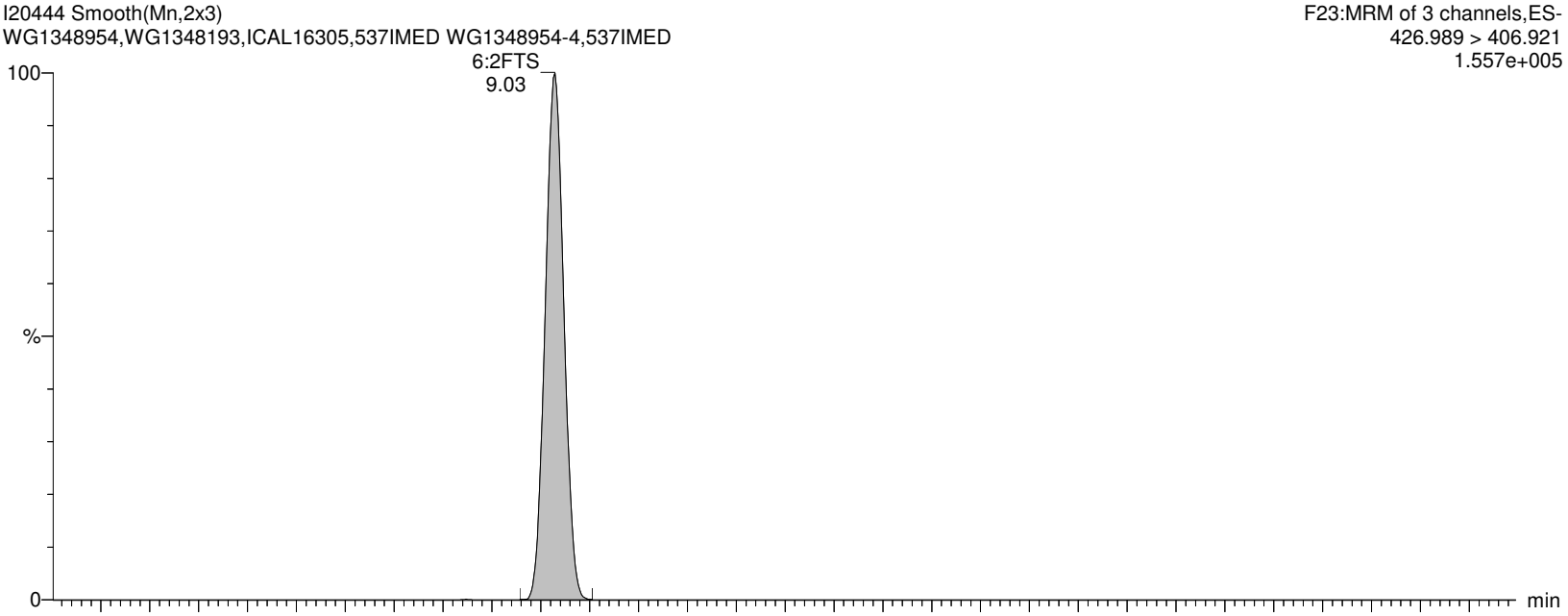

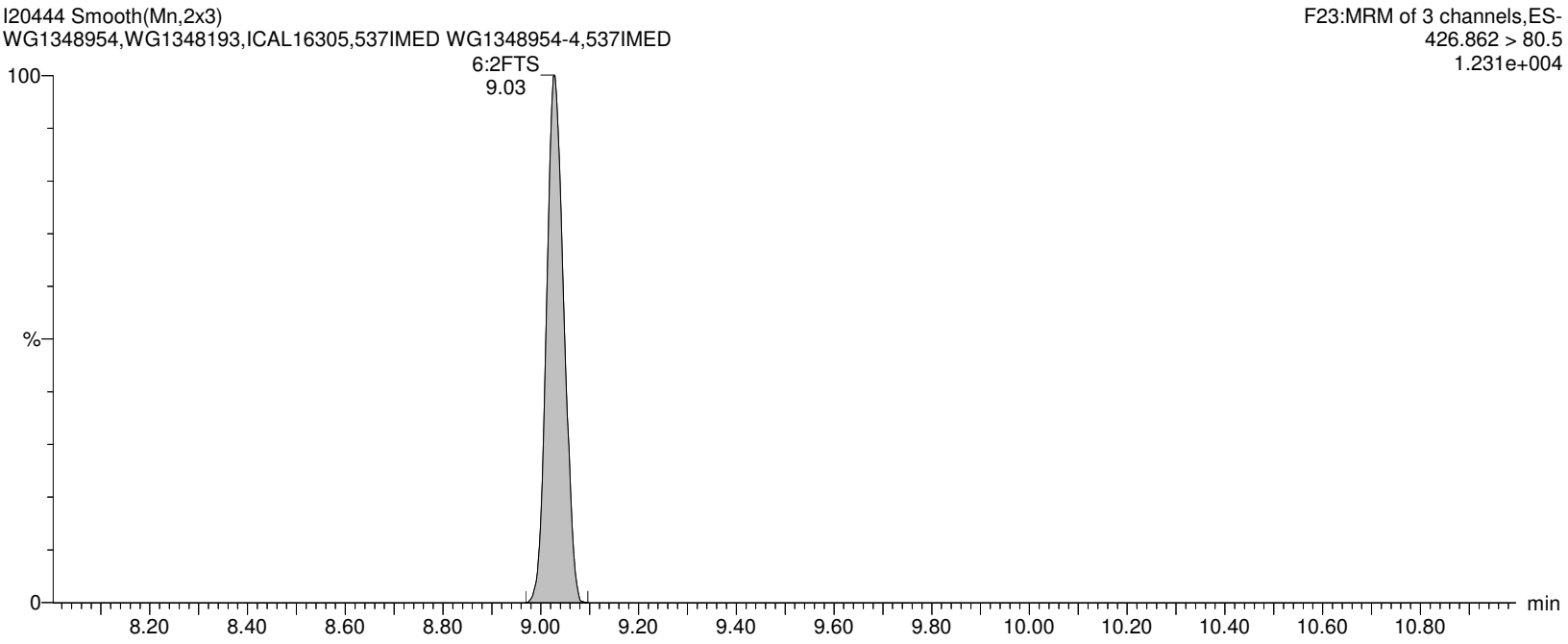

all concentration units in (ng/mL)

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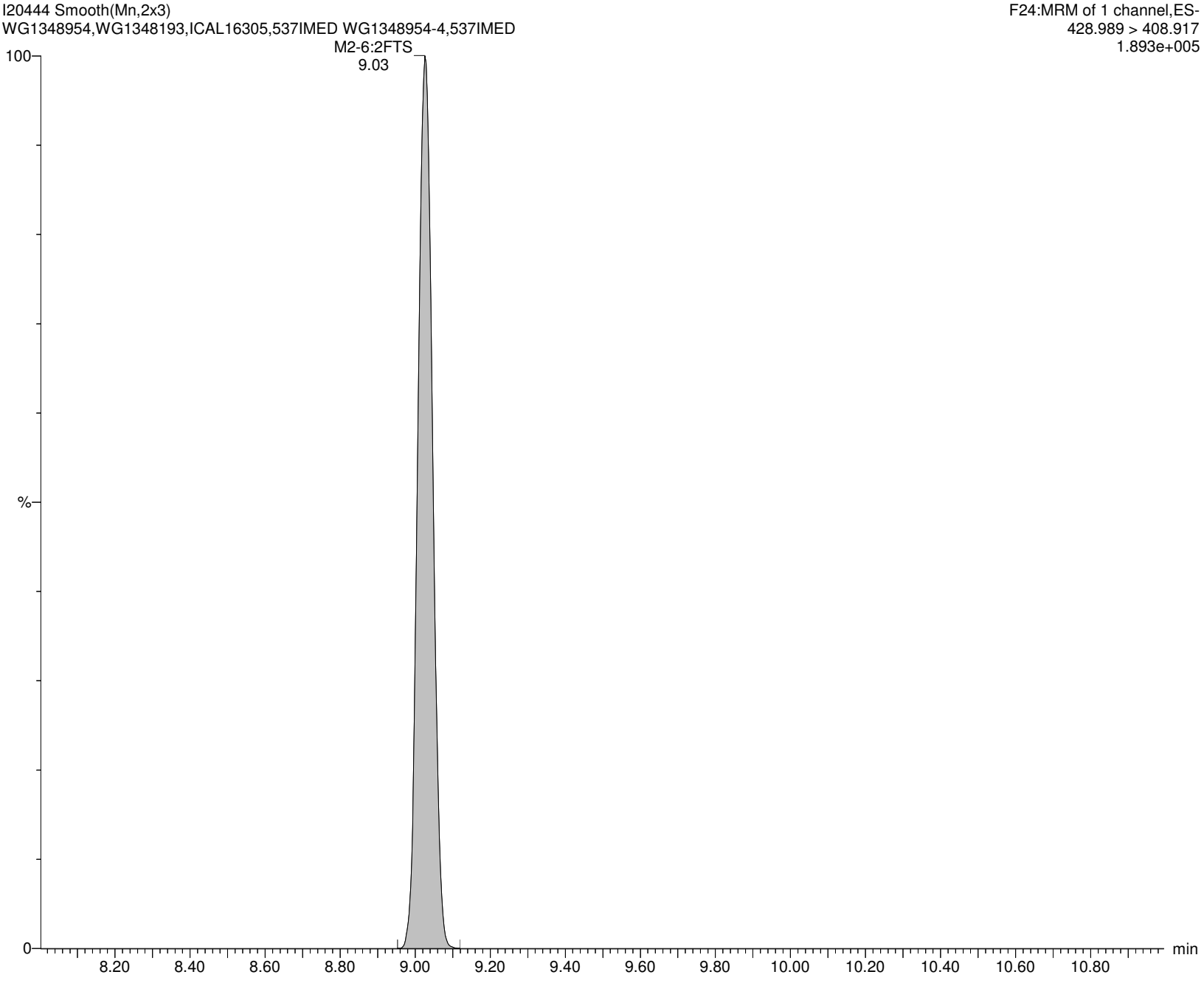

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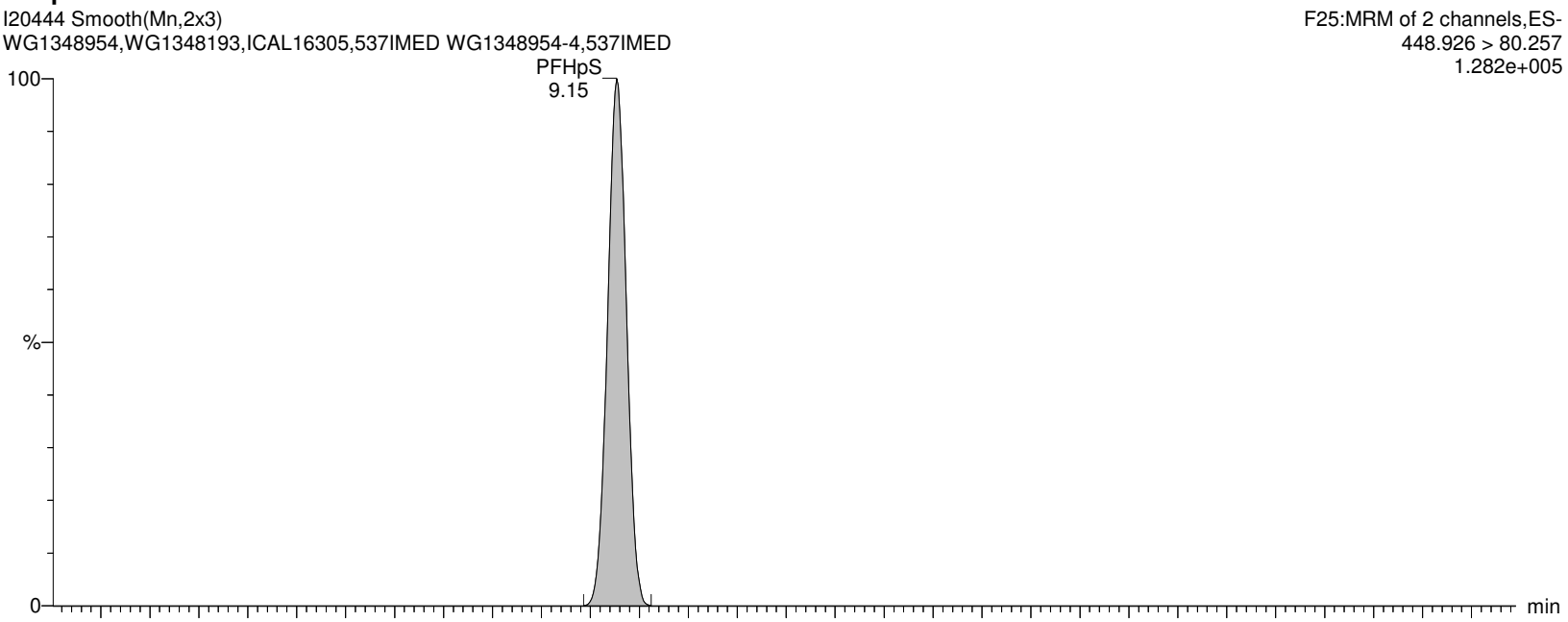

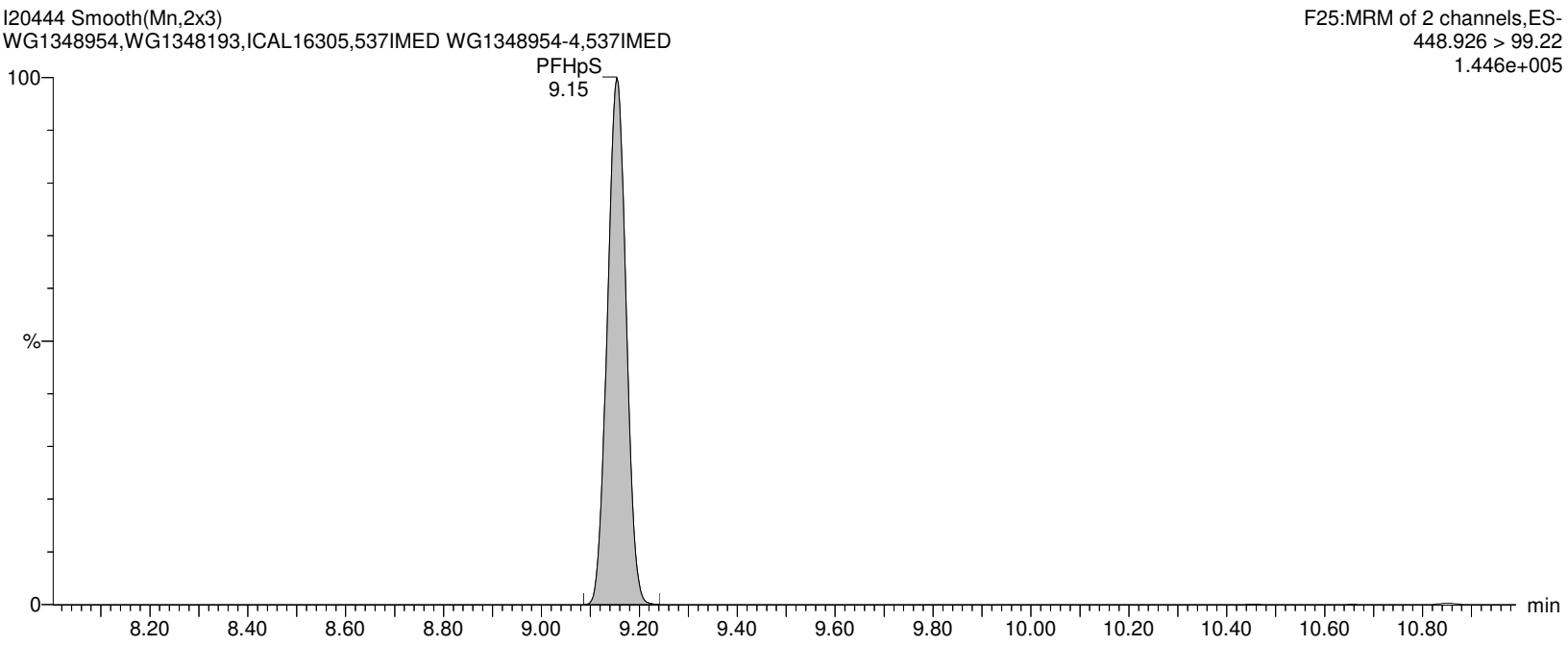

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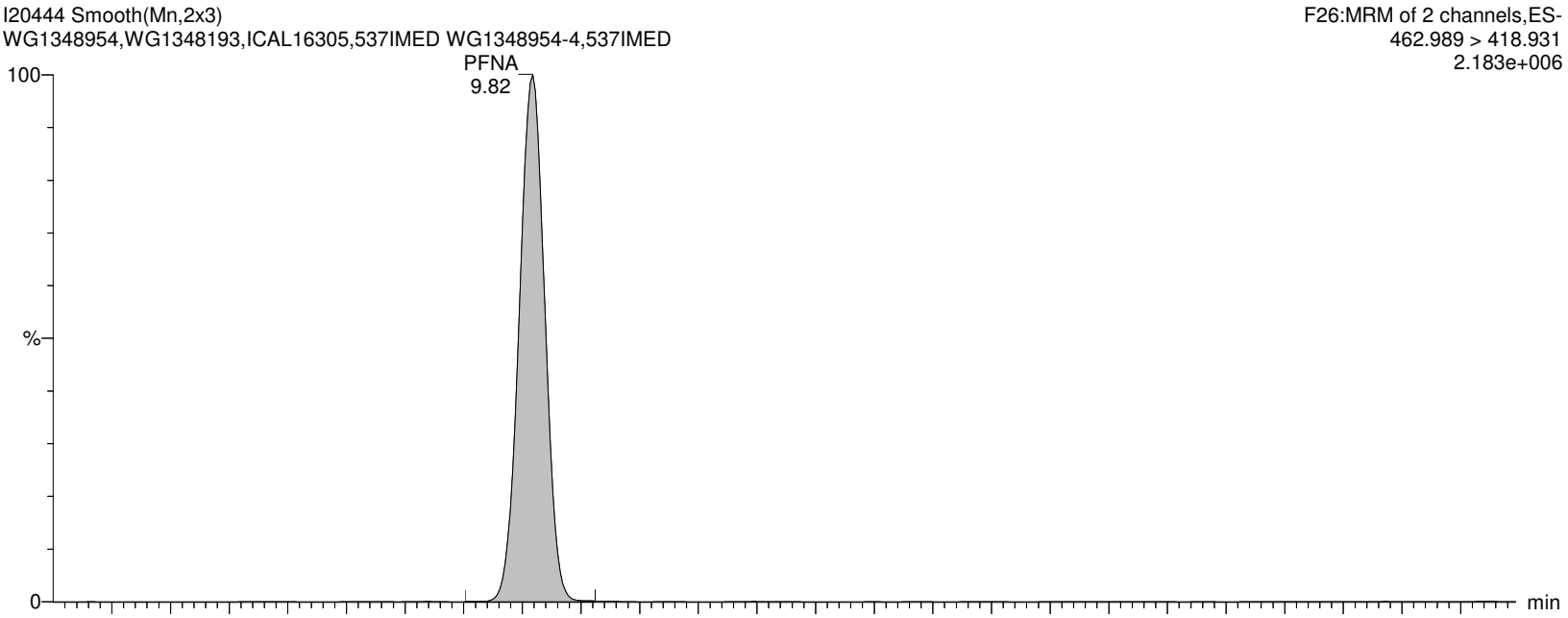

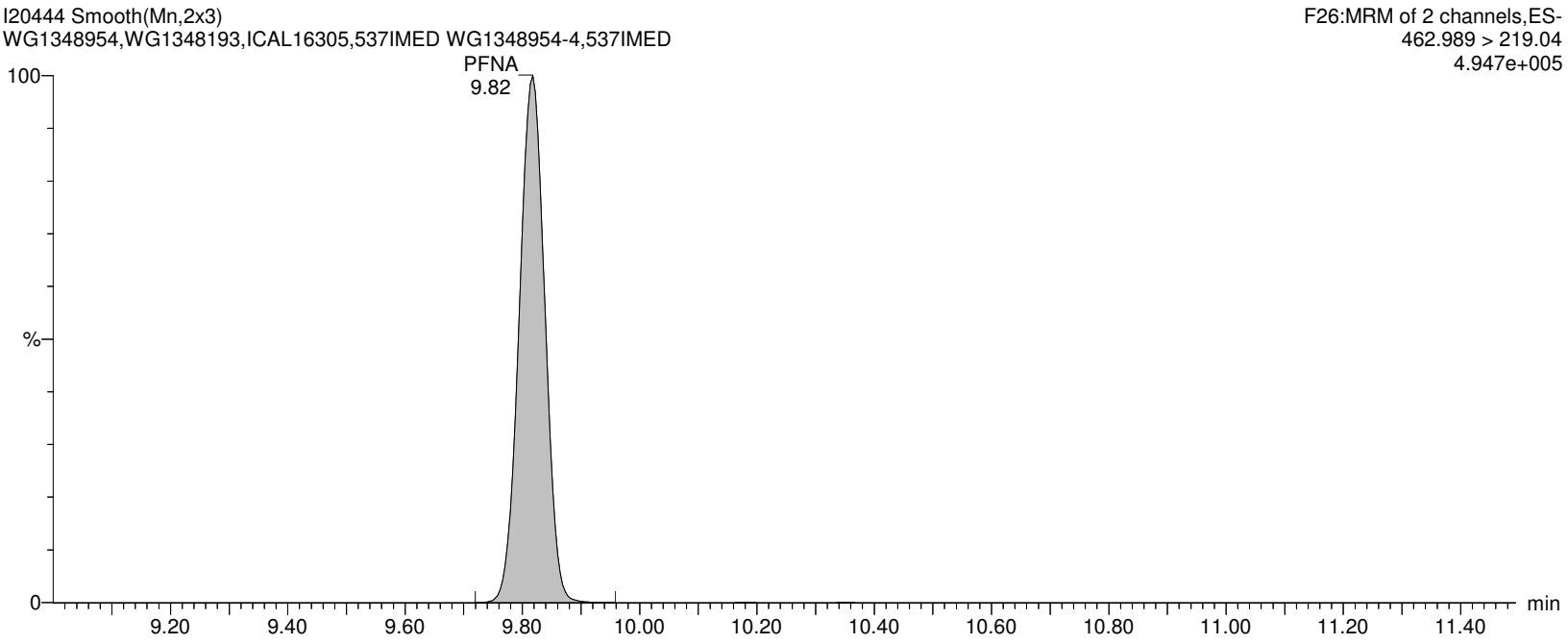

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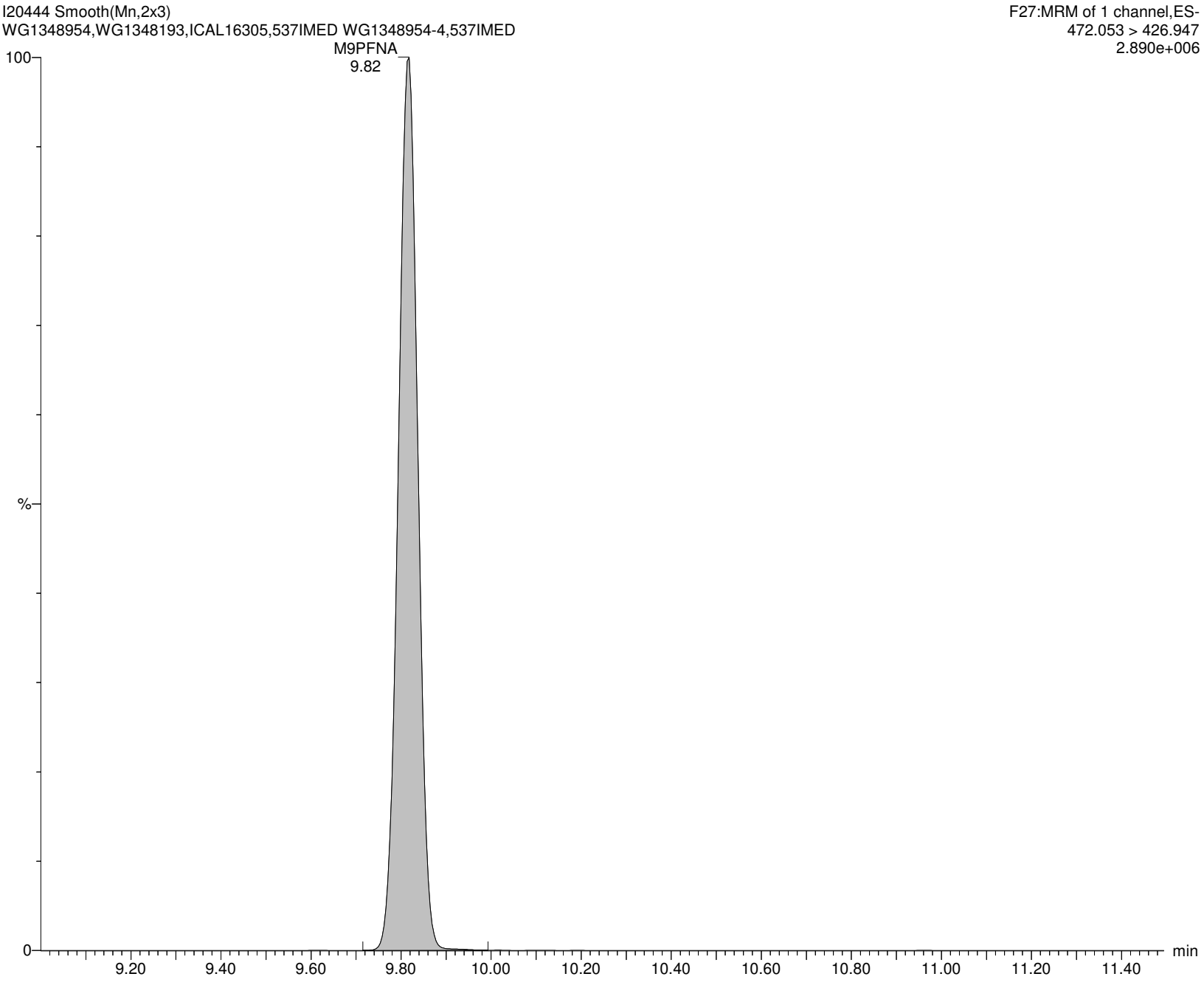

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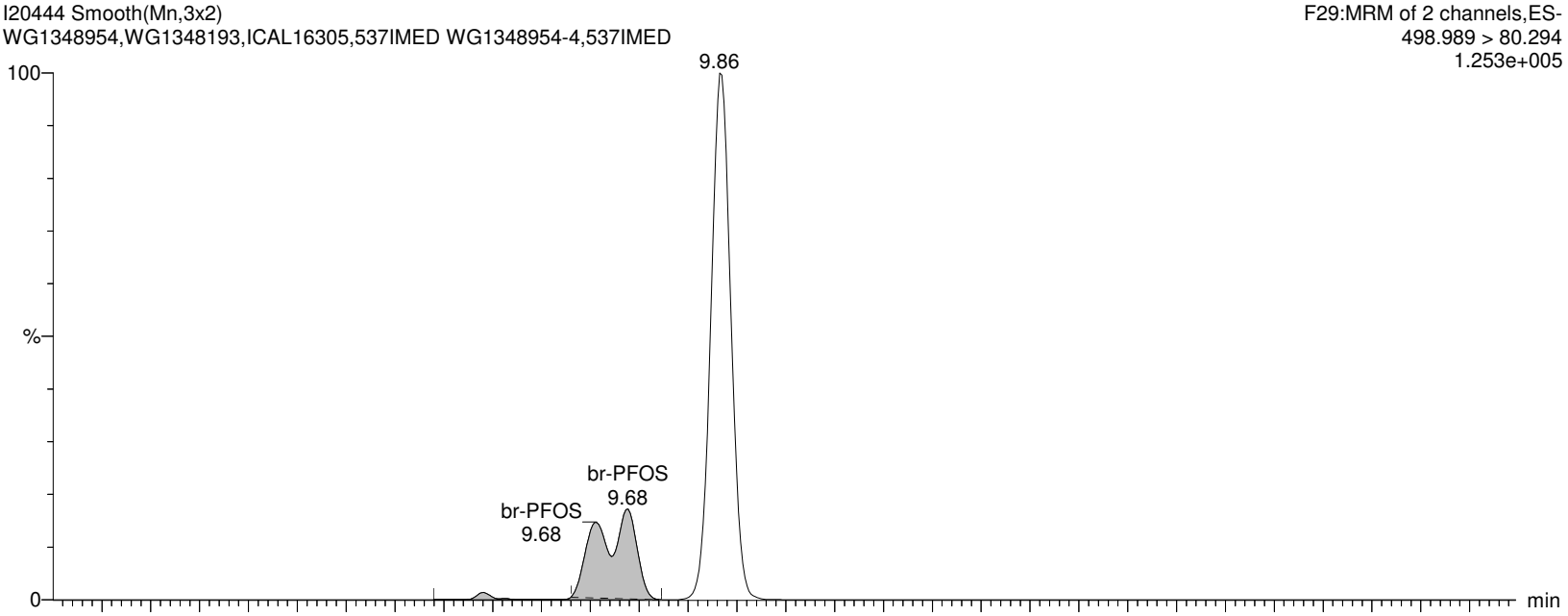

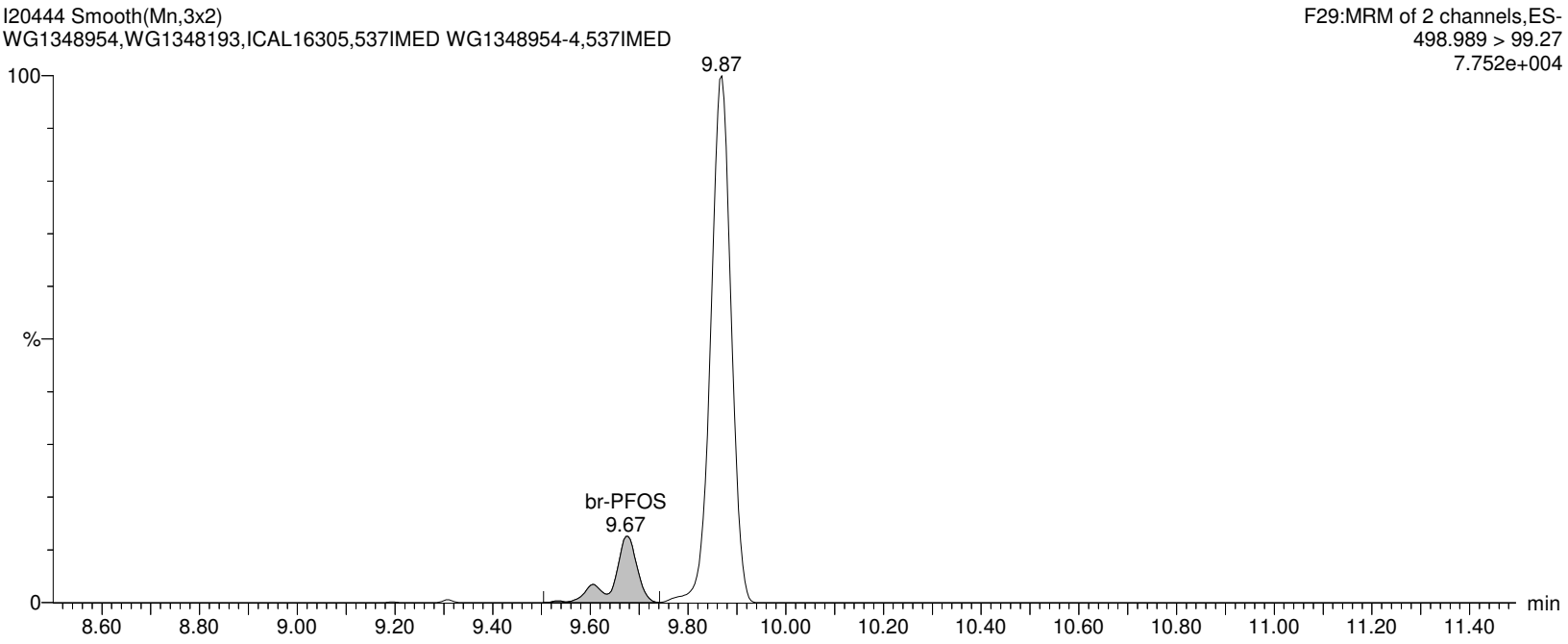

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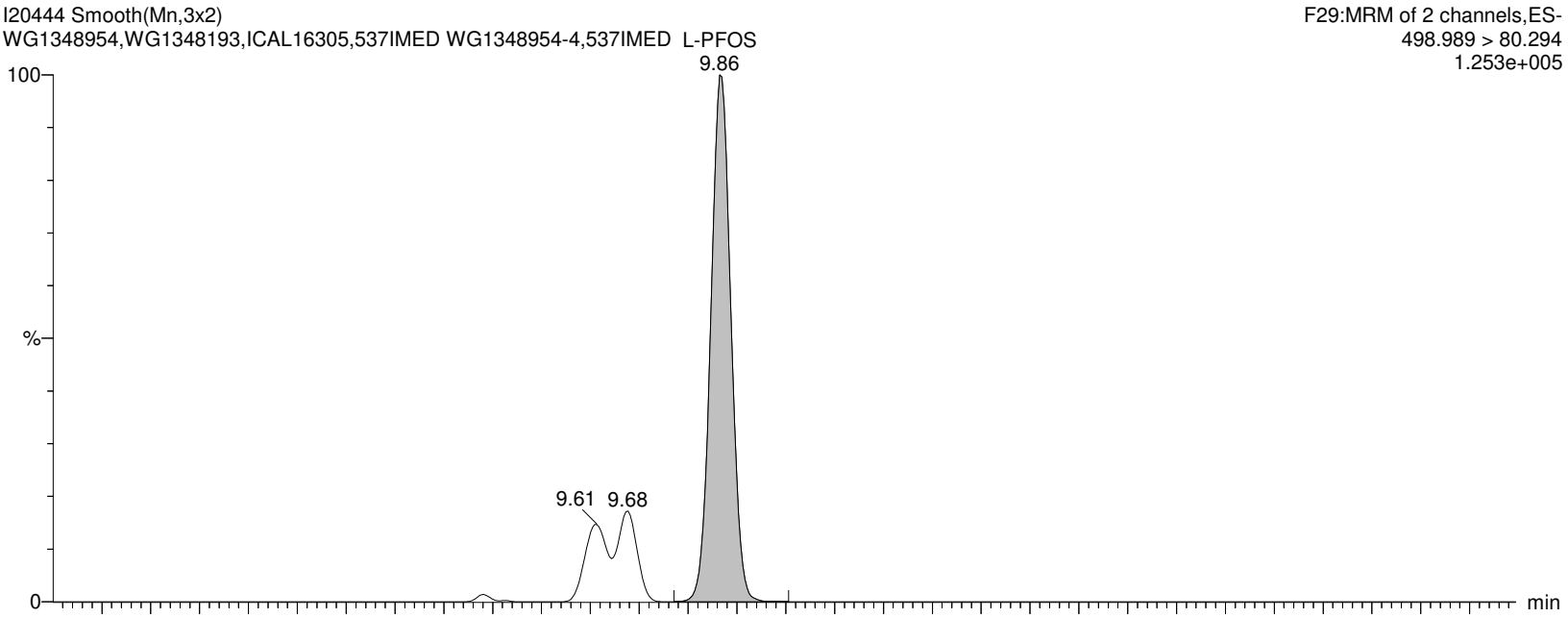
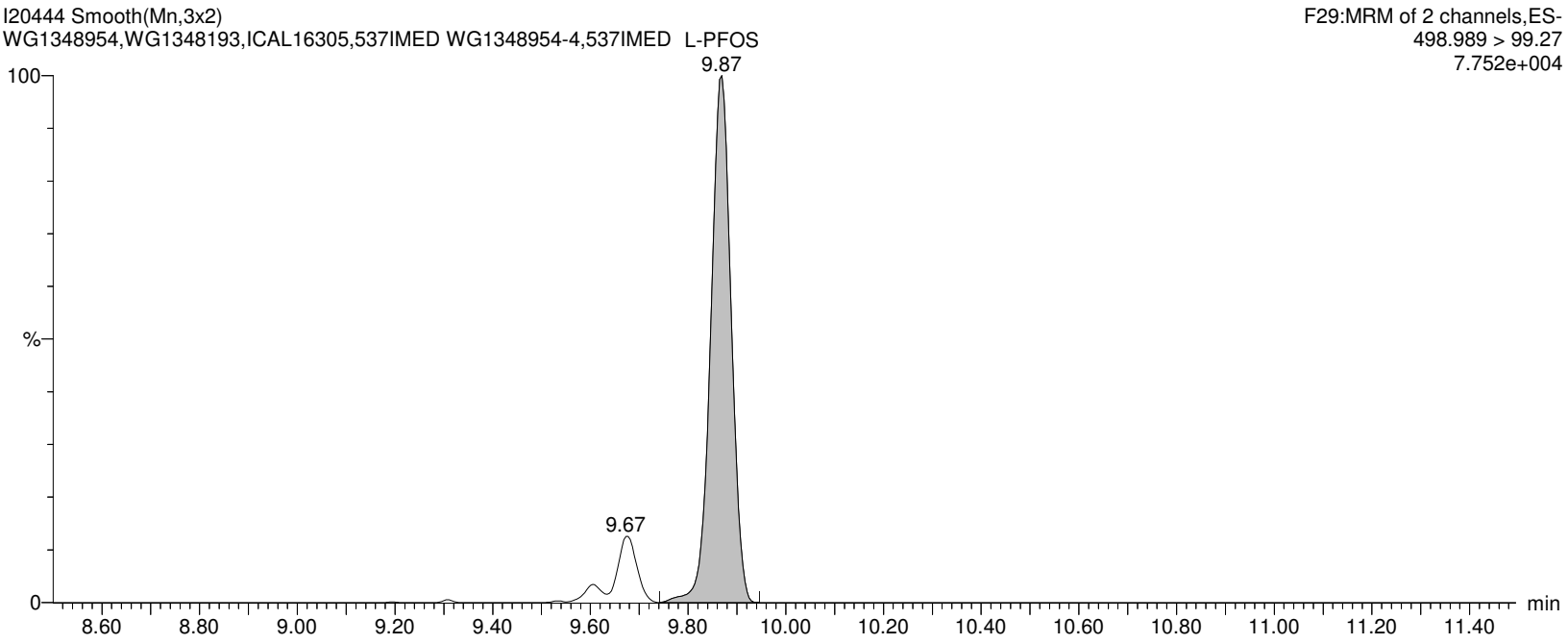
L-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:36:37 Eastern Daylight Time

Name: I20444
ID: WG1348954-4,537IMED
Date: 10-Mar-2020
Time: 23:50:12
Description: WG1348954,WG1348193,ICAL16305,537IMED
User: LCMS02:RS
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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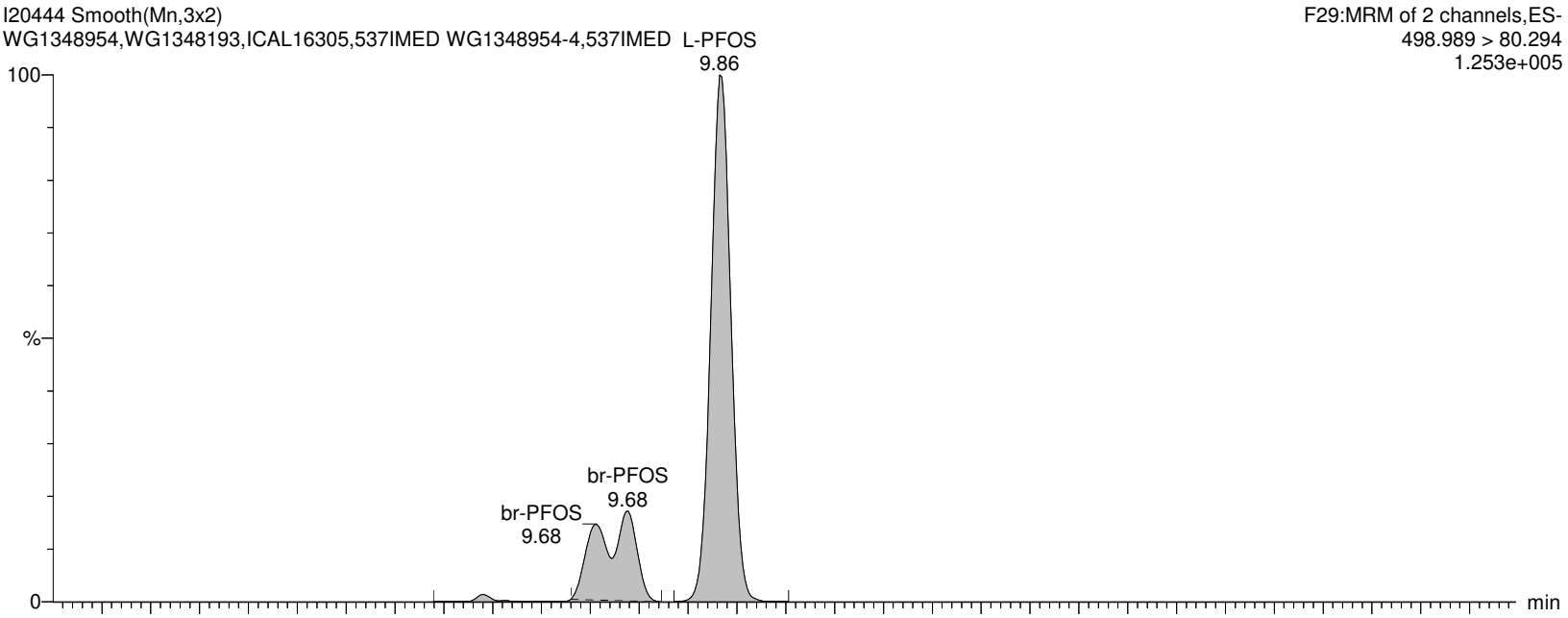

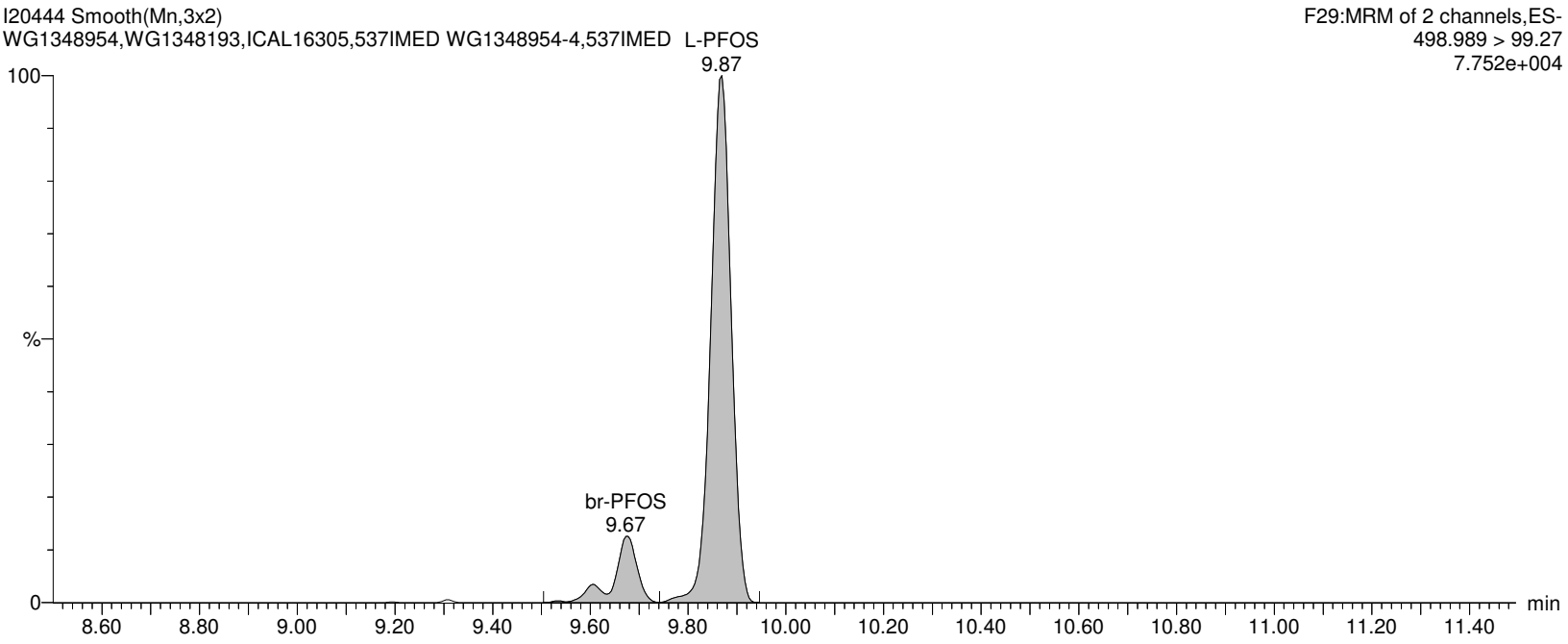

all concentration units in (ng/mL)

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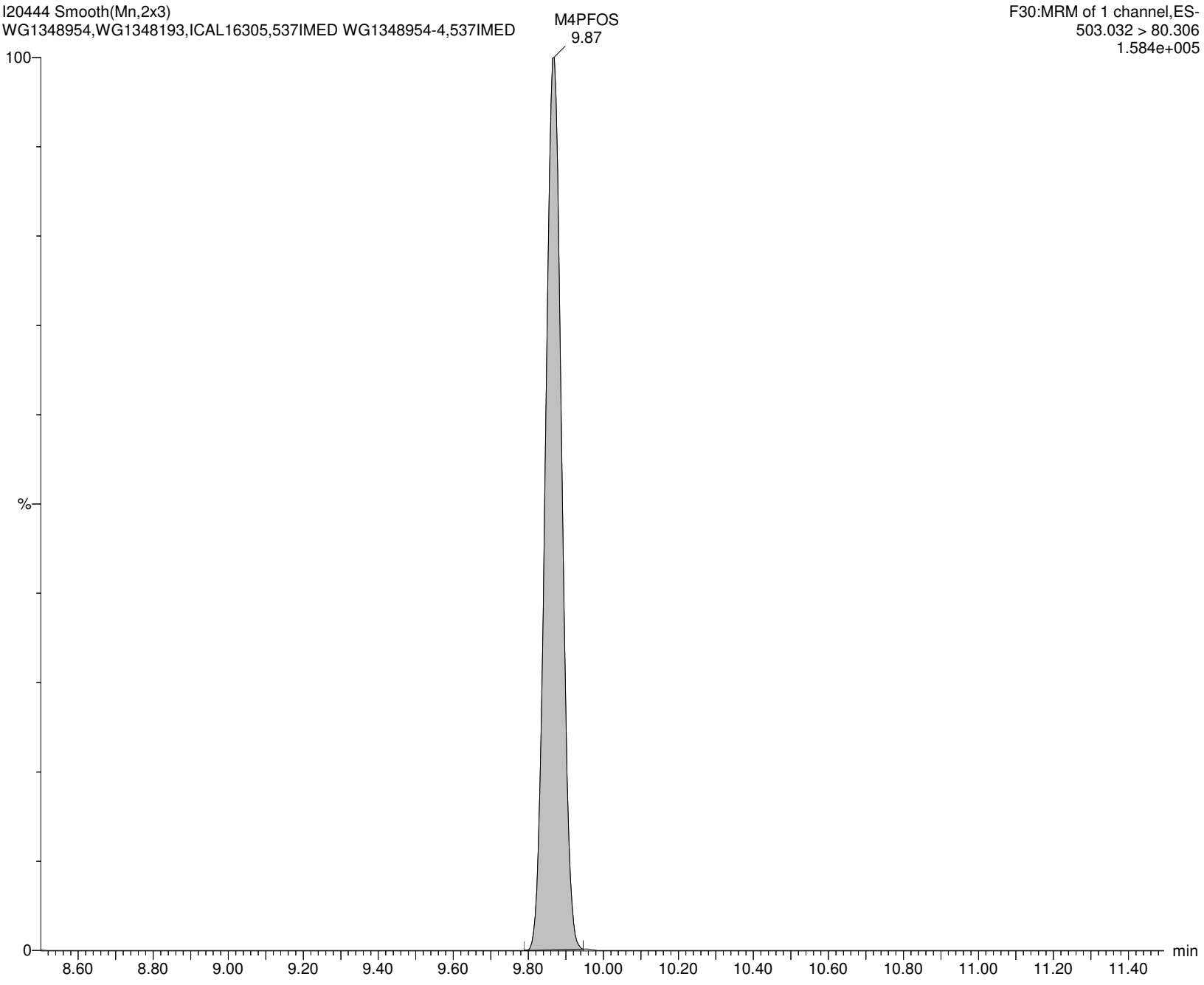

all concentration units in (ng/mL)

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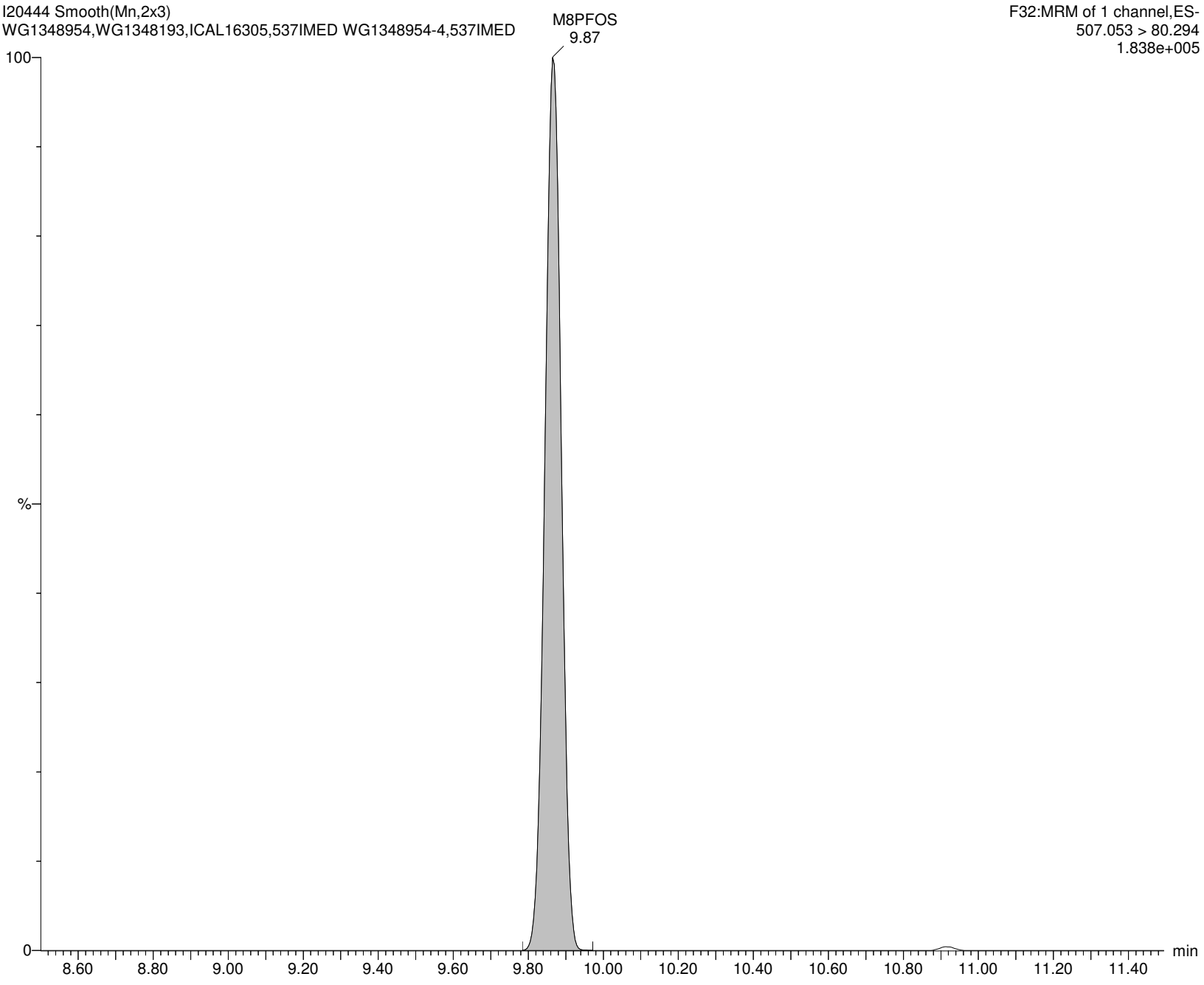

all concentration units in (ng/mL)

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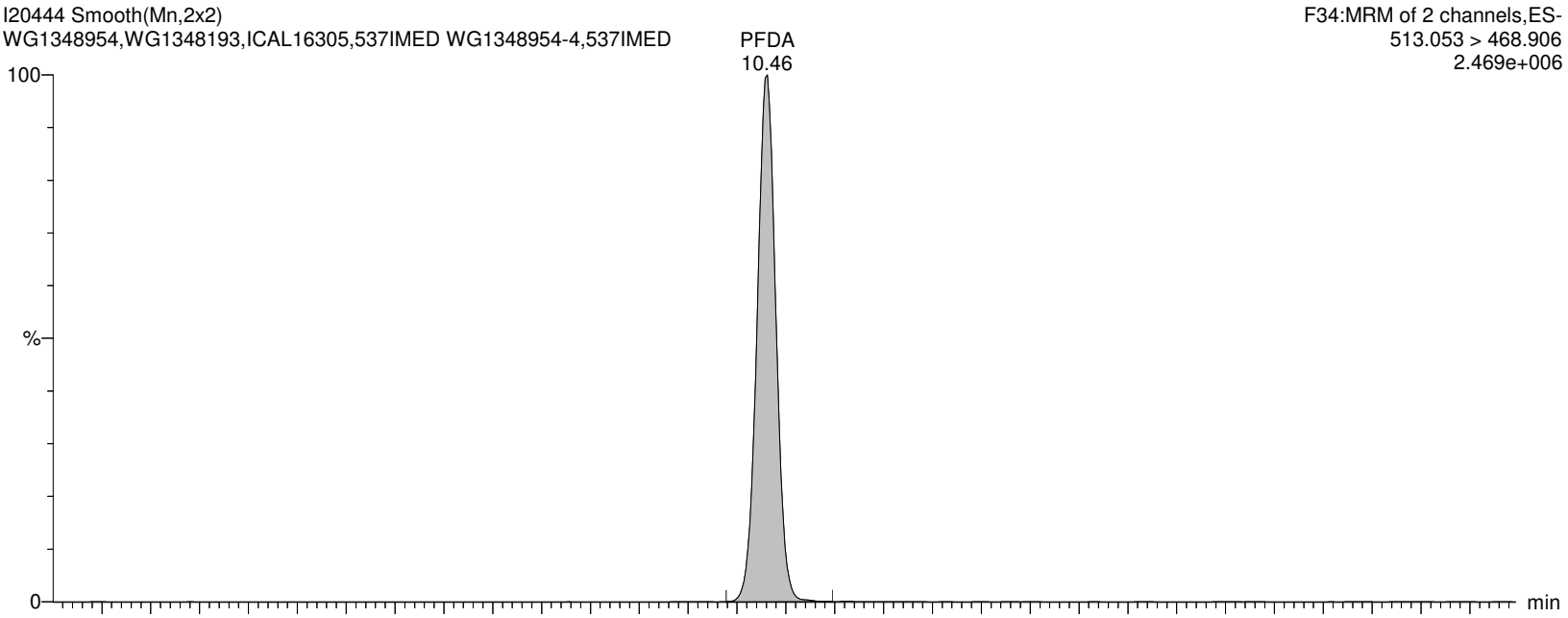

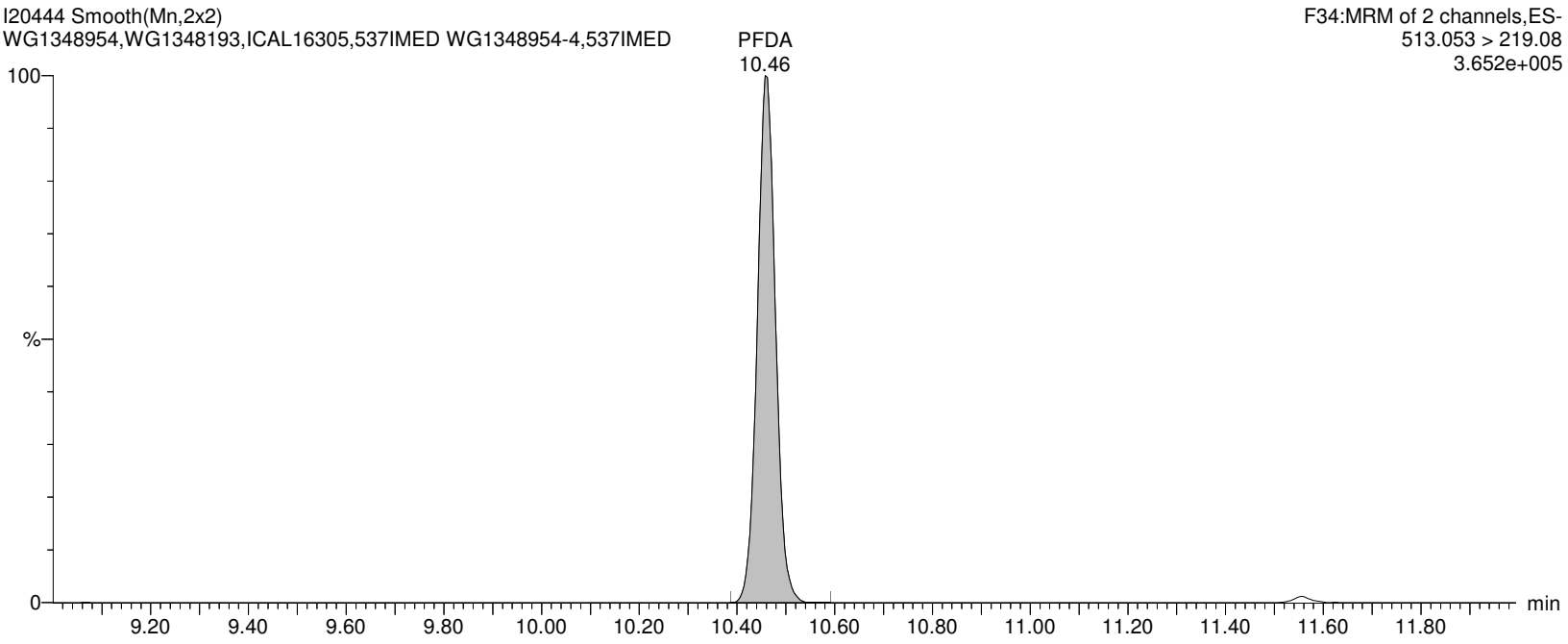

all concentration units in (ng/mL)

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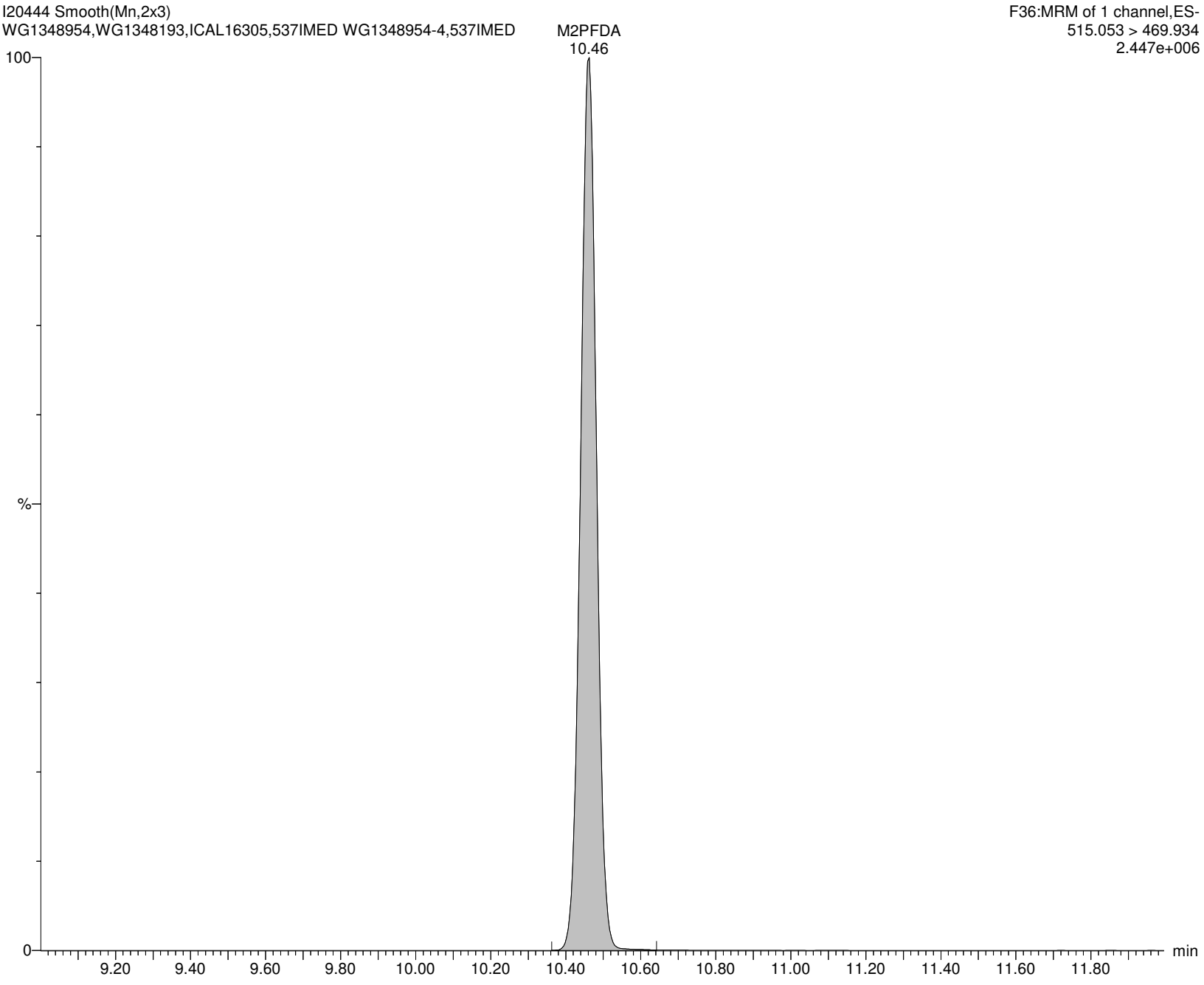

all concentration units in (ng/mL)

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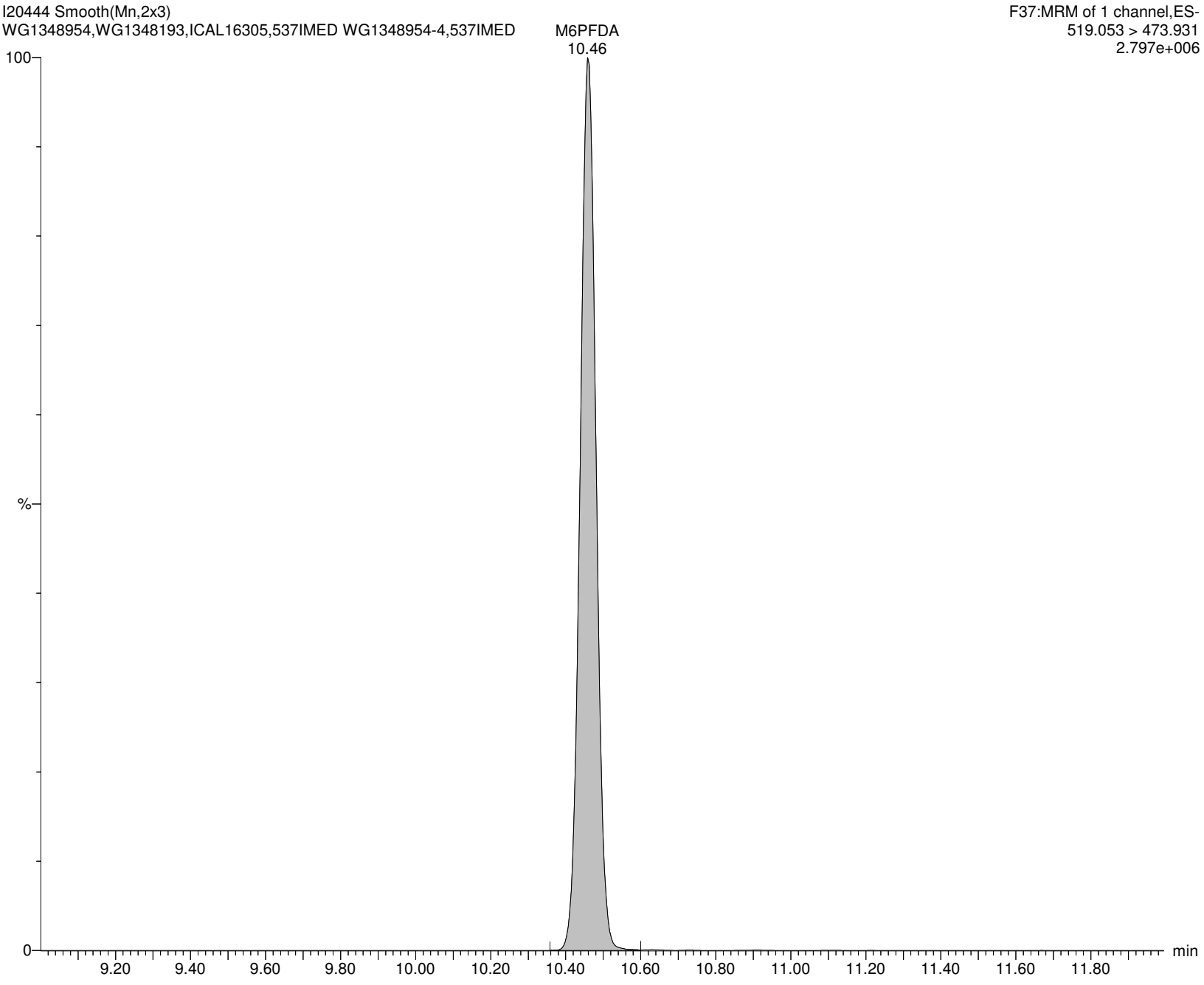

all concentration units in (ng/mL)

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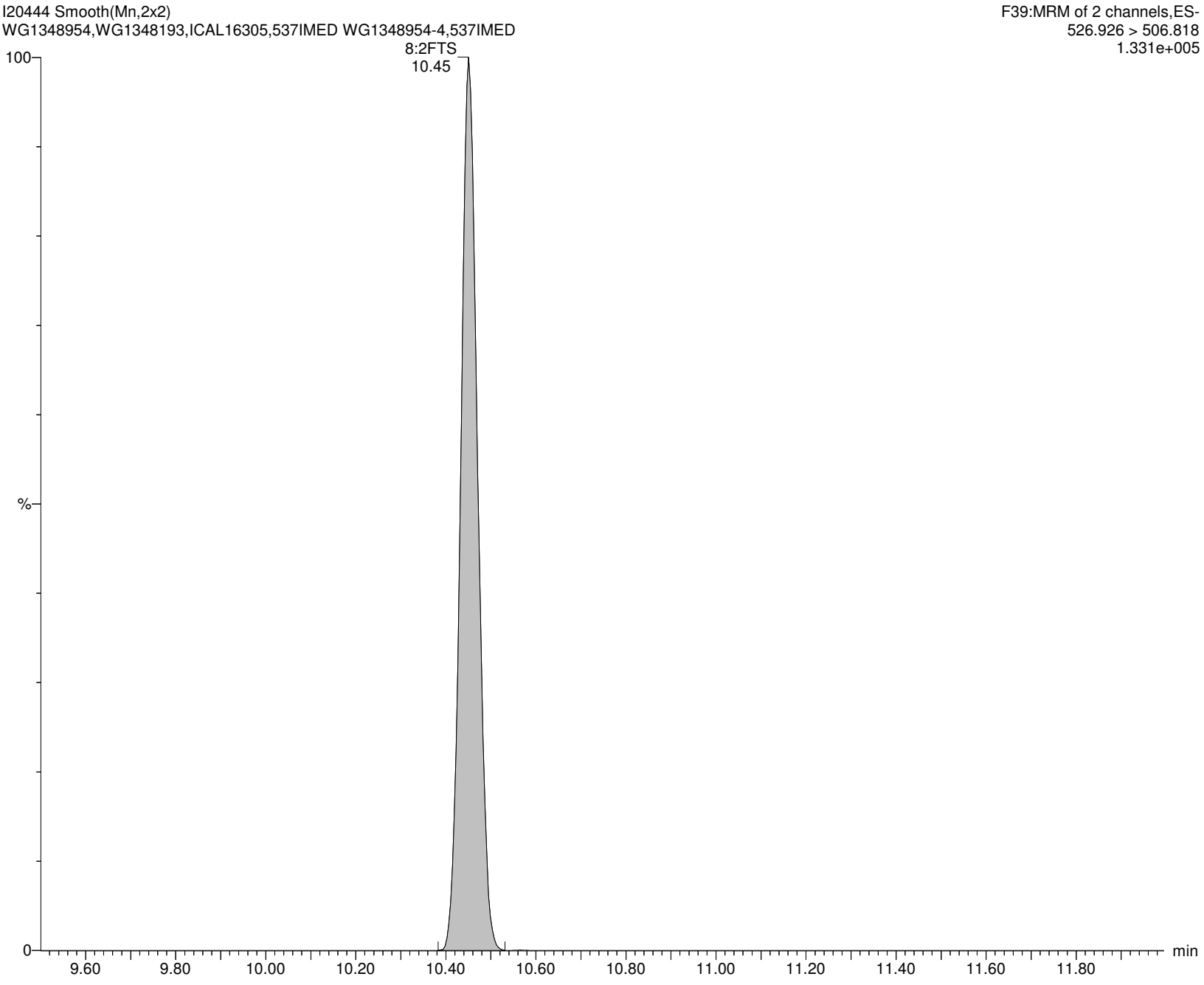

all concentration units in (ng/mL)

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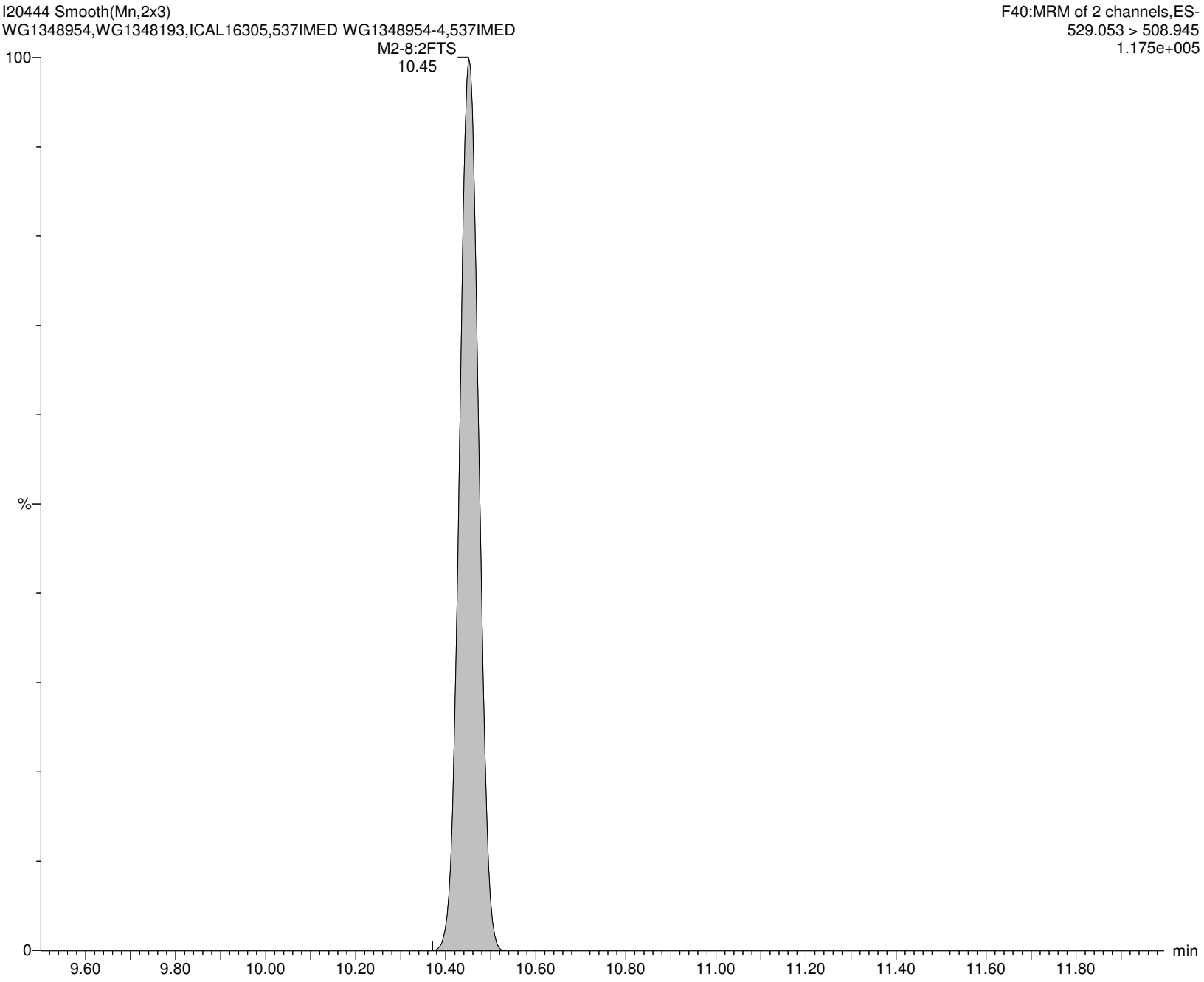

all concentration units in (ng/mL)

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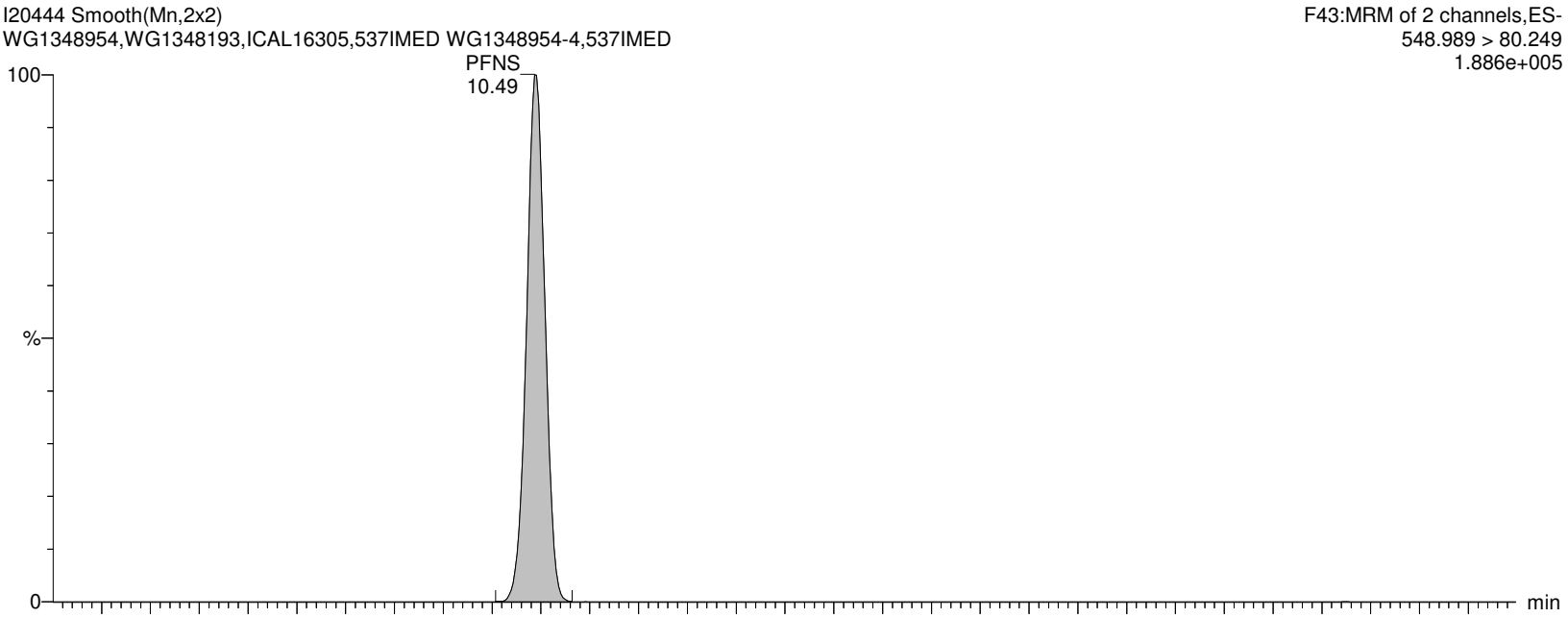

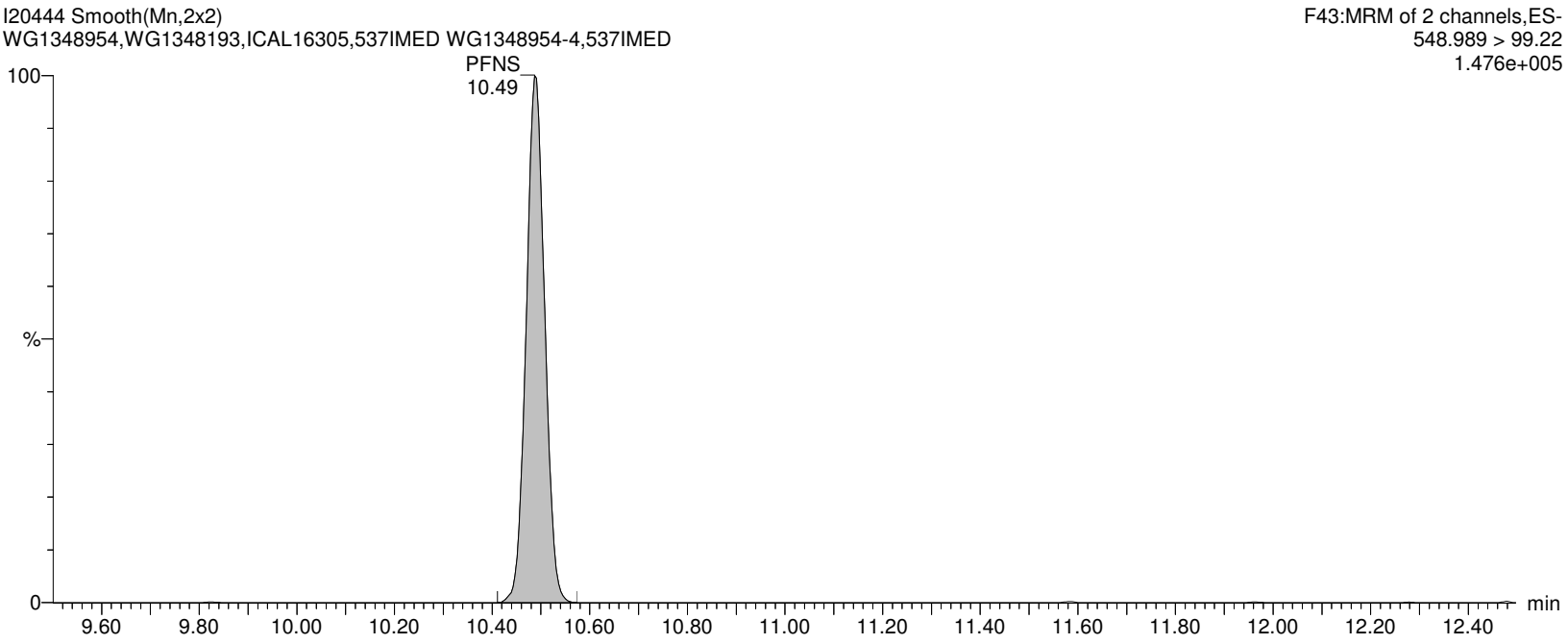

all concentration units in (ng/mL)

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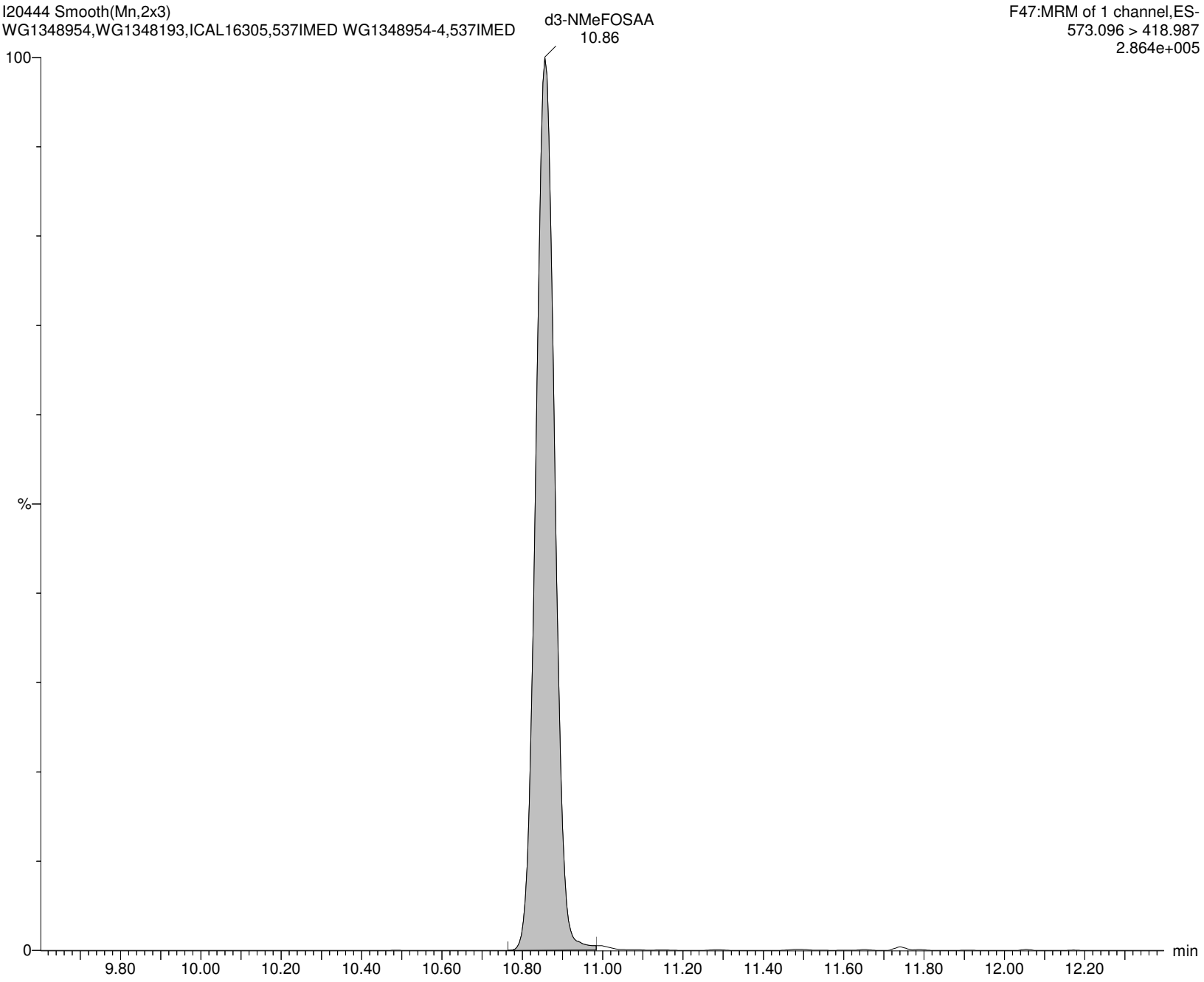

all concentration units in (ng/mL)

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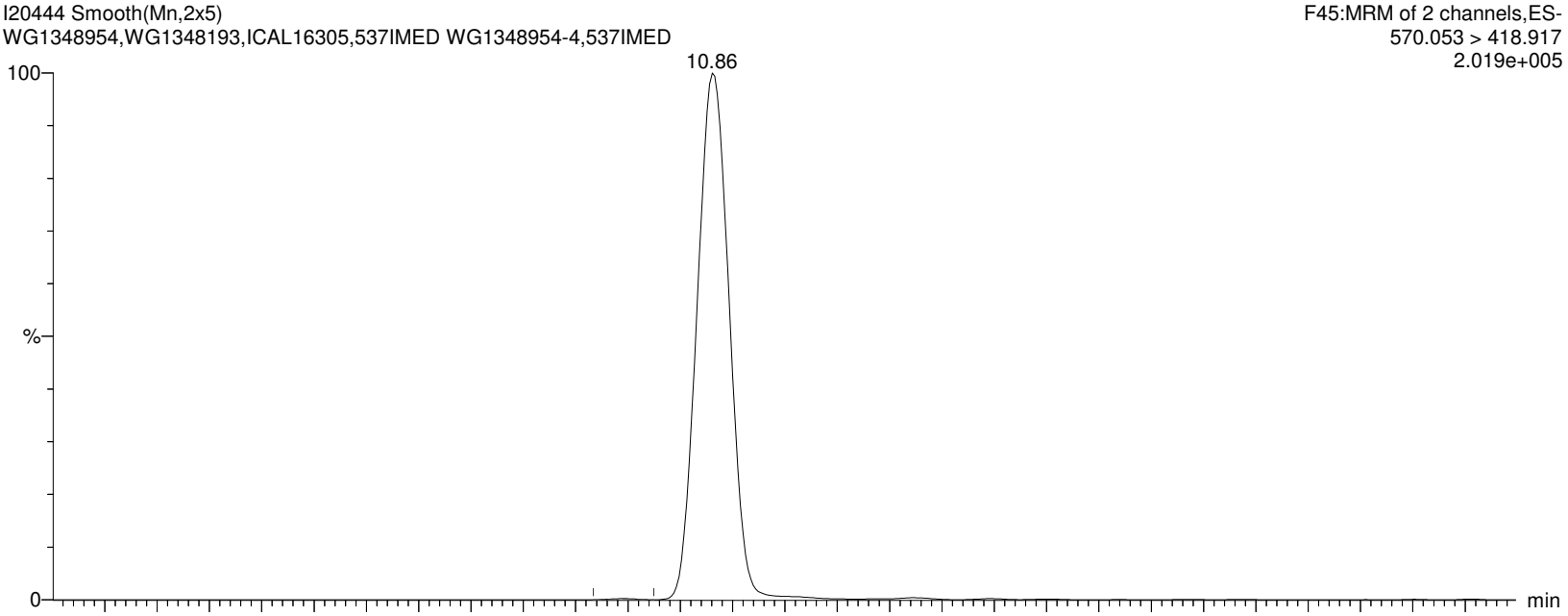

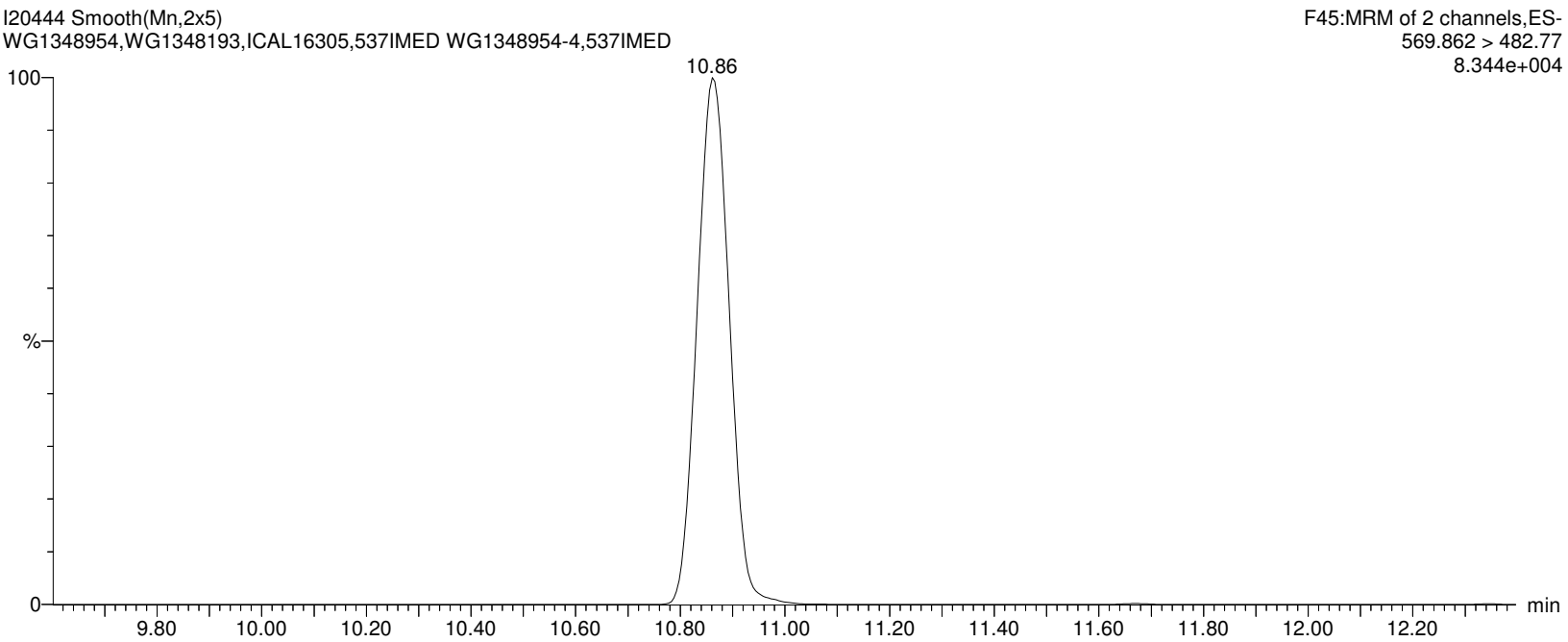

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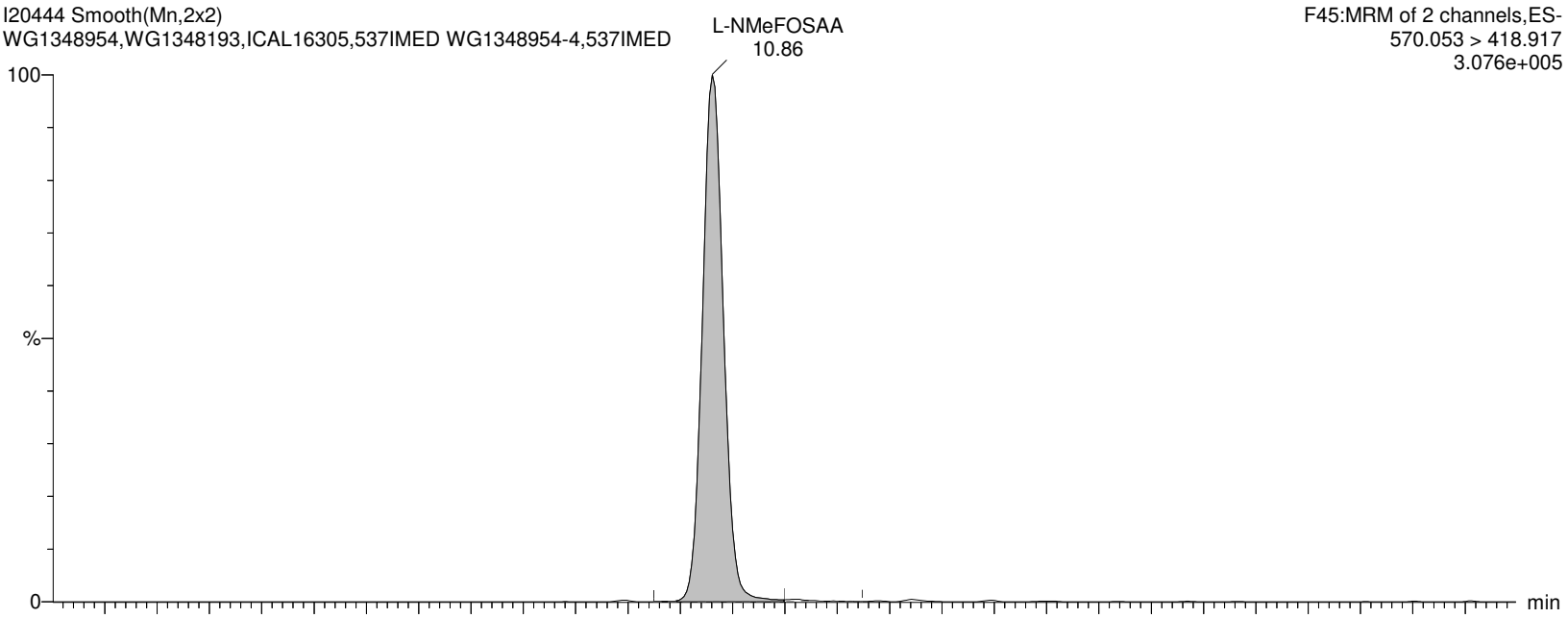

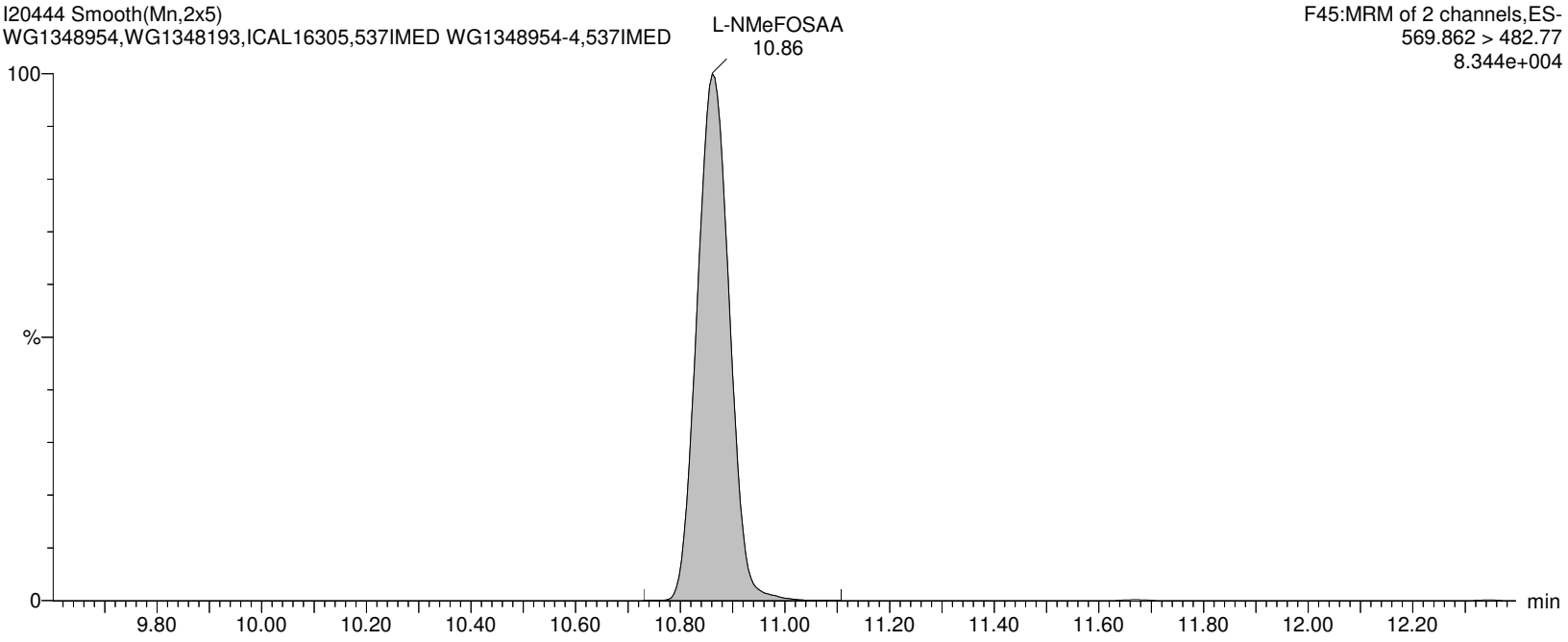

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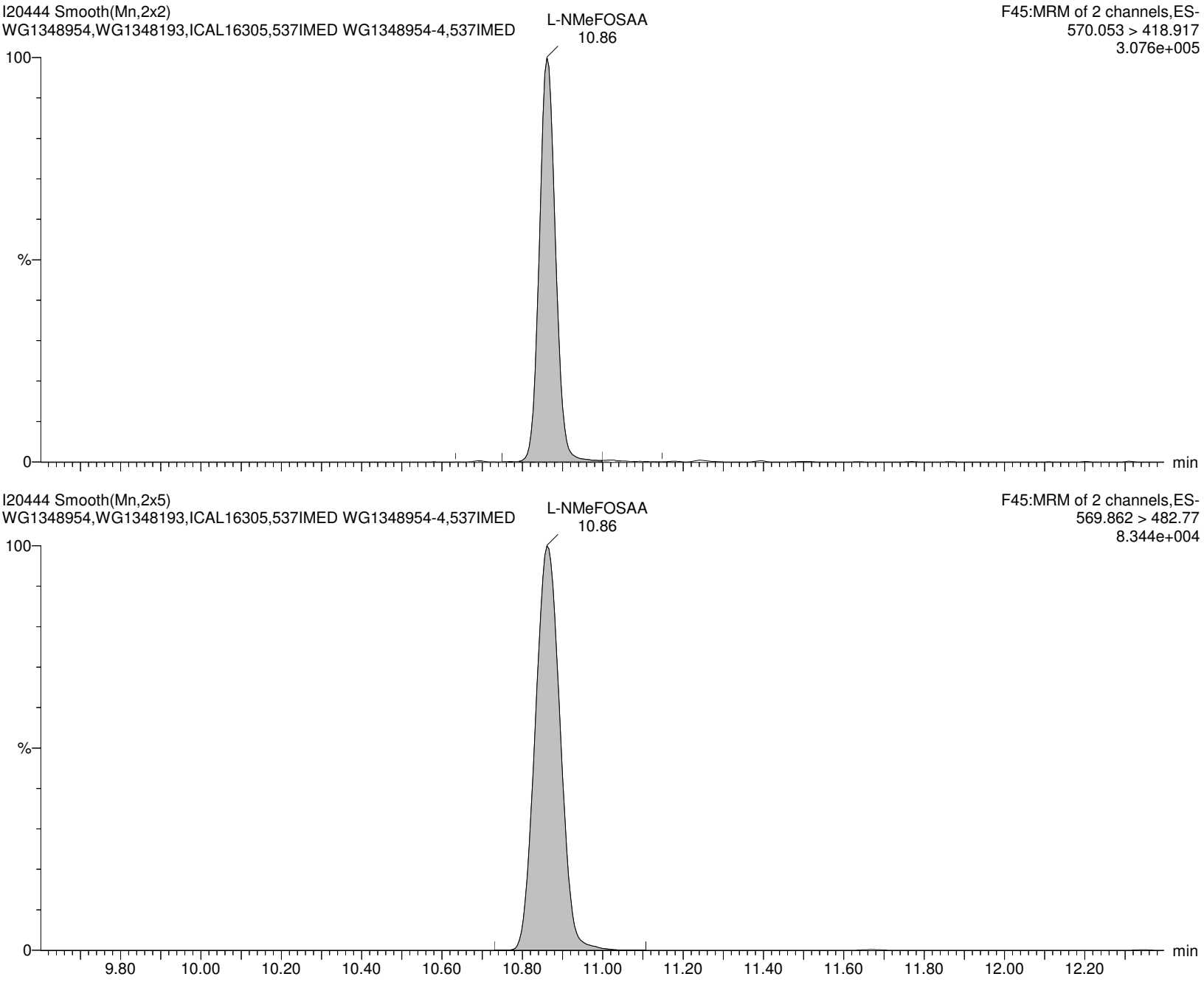

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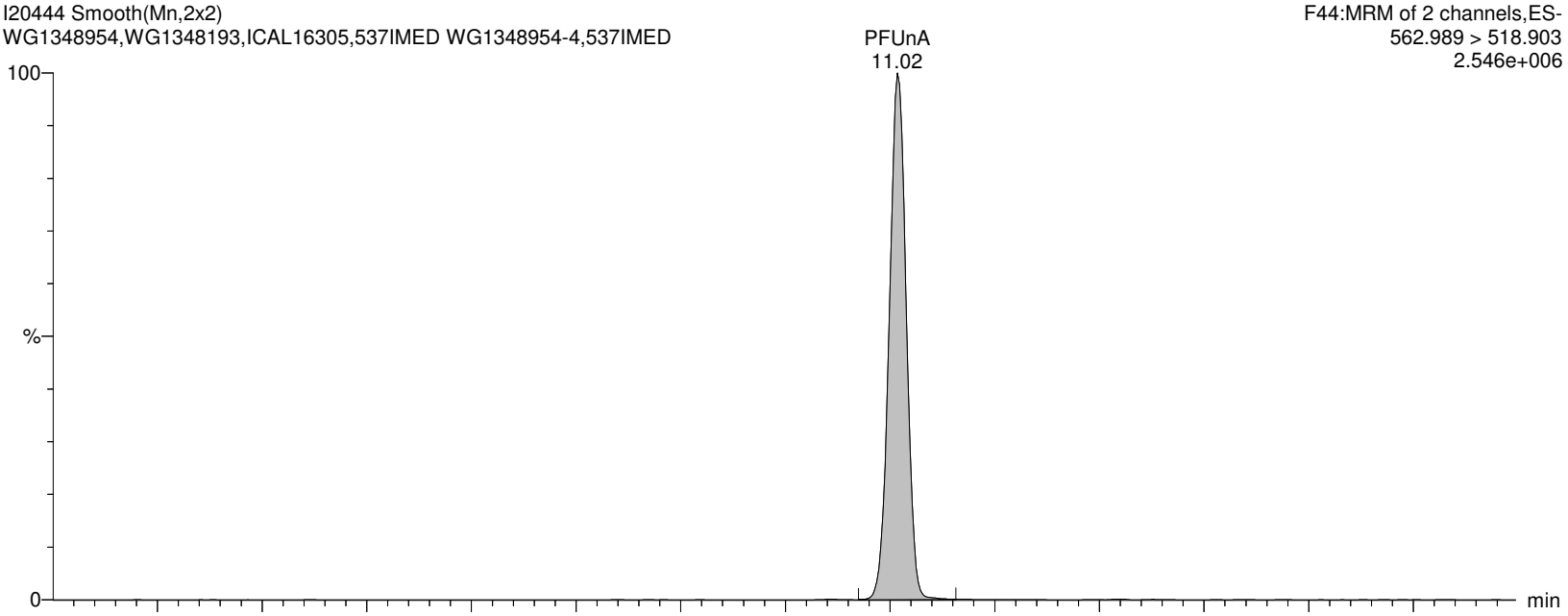

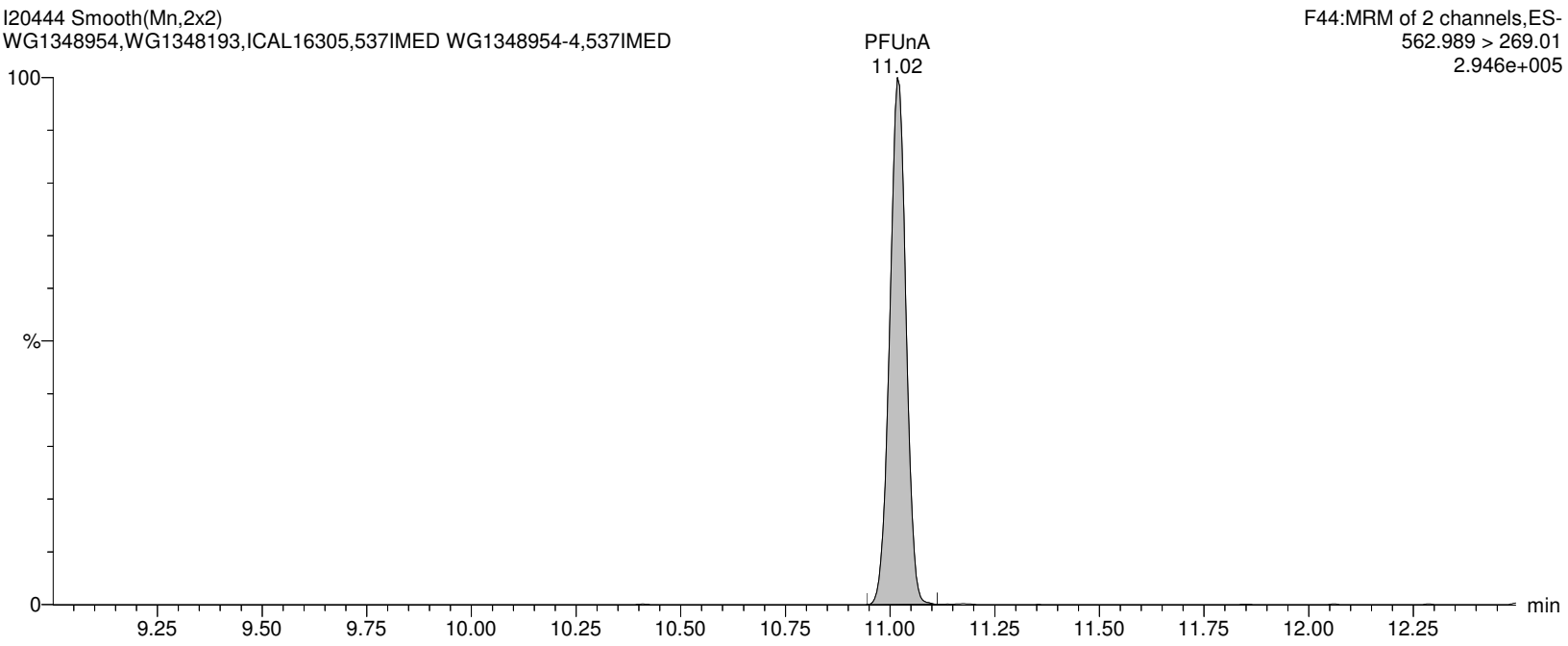

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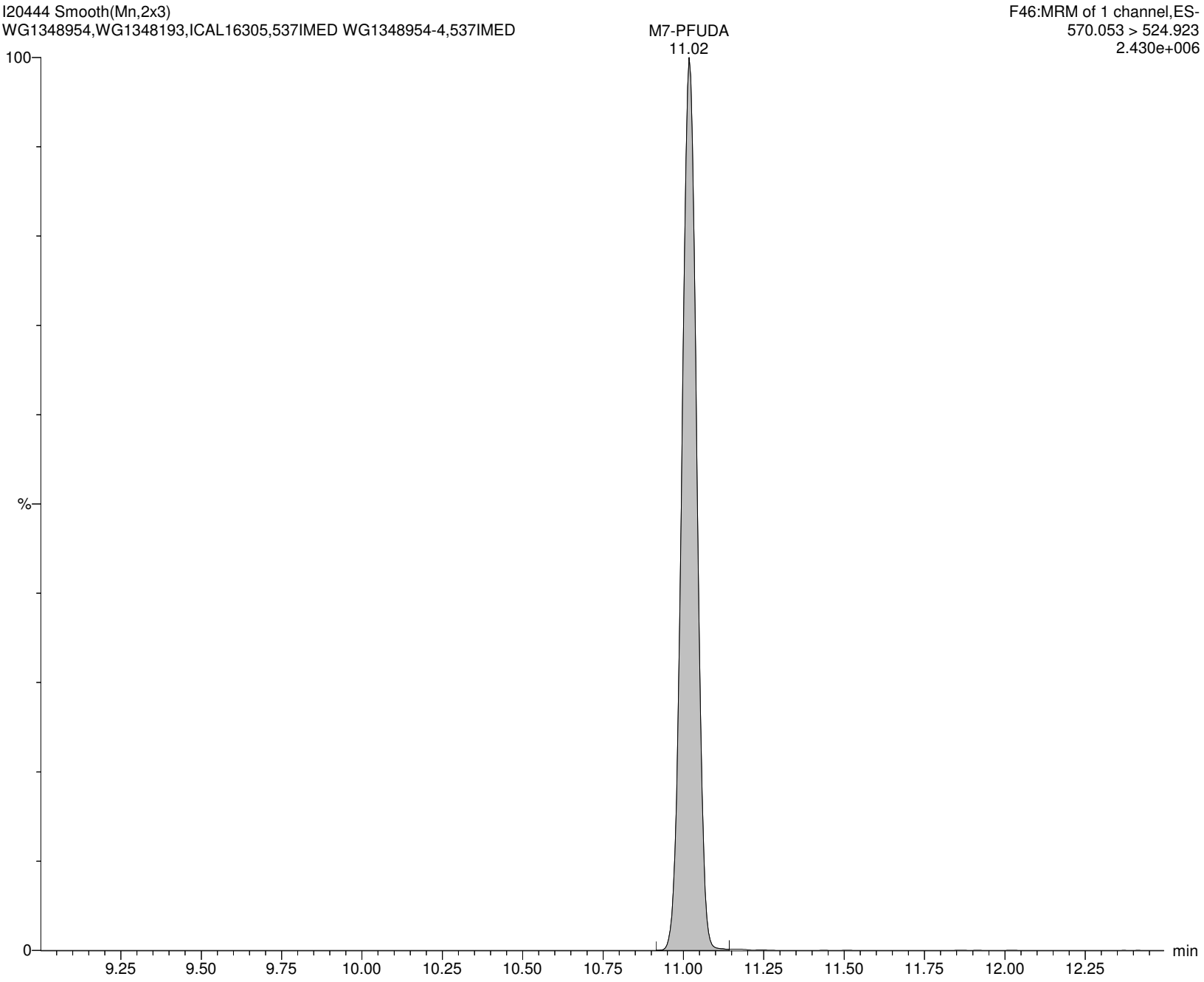

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User: LCMS02:RS
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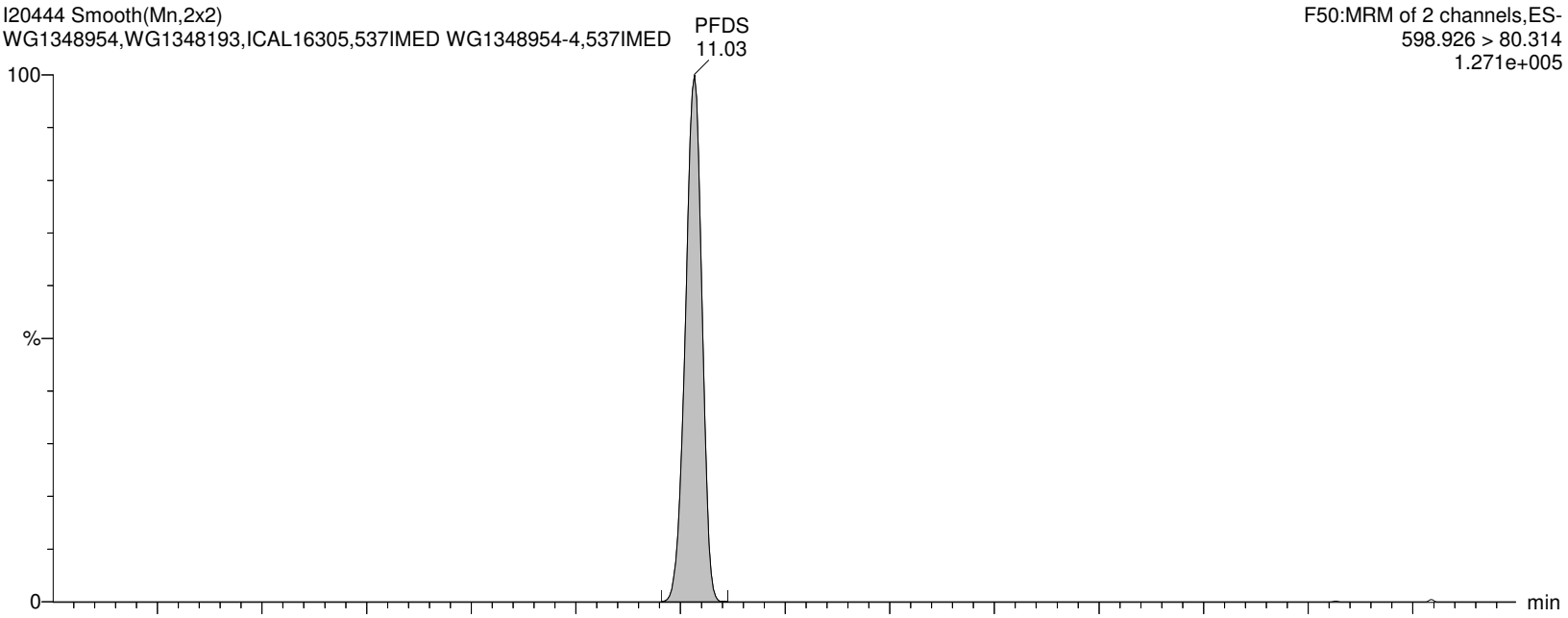

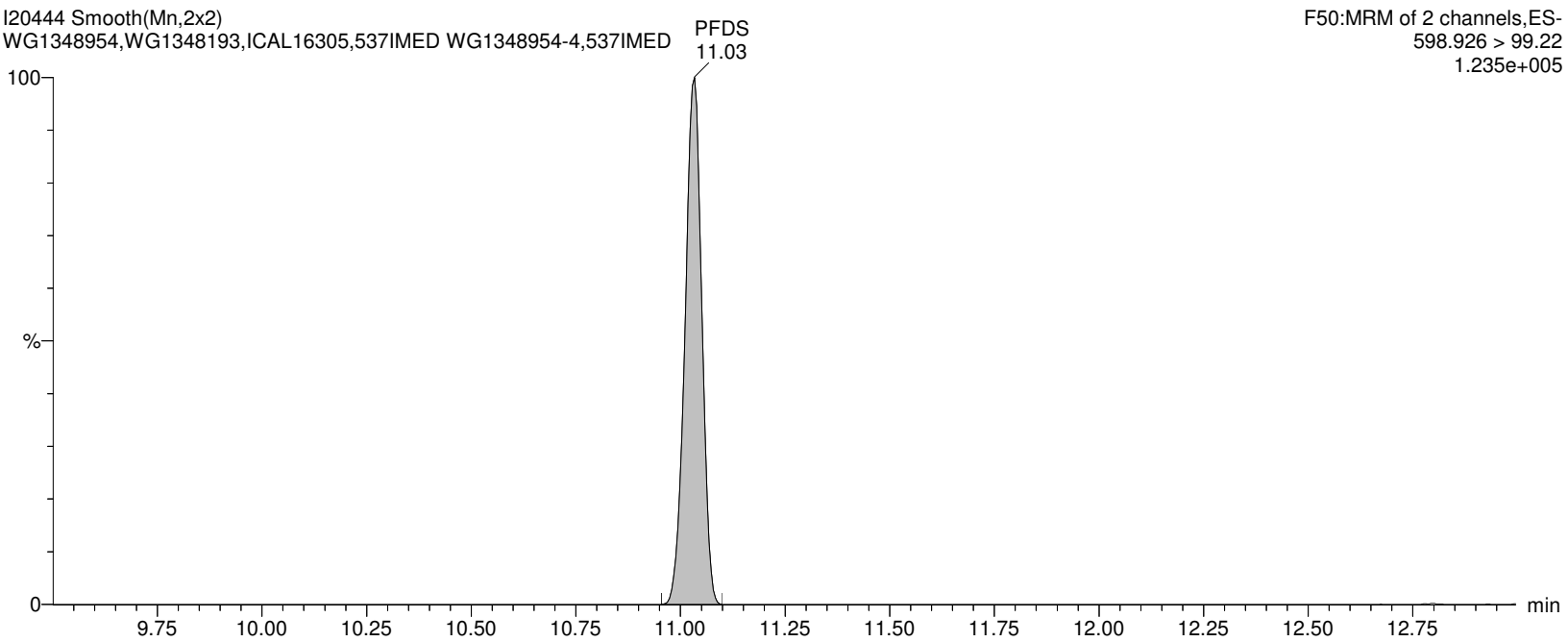

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:36:37 Eastern Daylight Time

Name: I20444
ID: WG1348954-4,537IMED
Date: 10-Mar-2020
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Description: WG1348954,WG1348193,ICAL16305,537IMED
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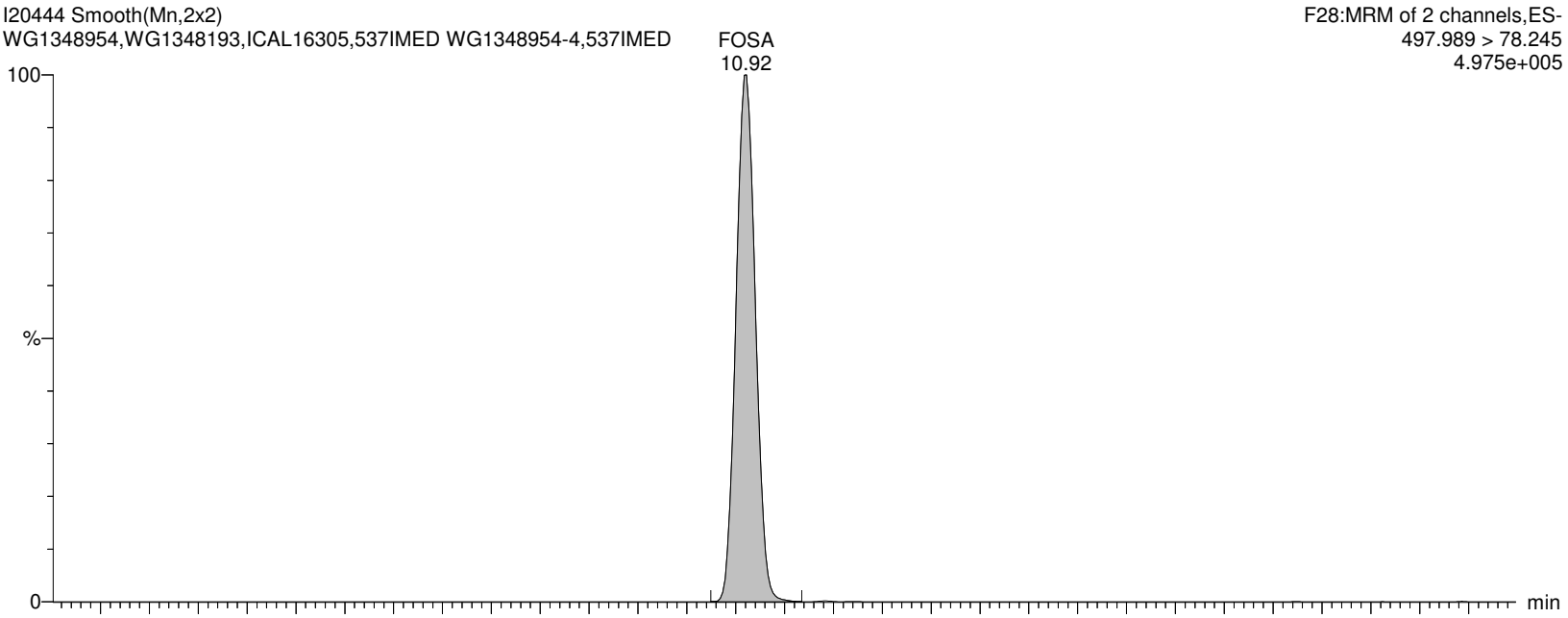

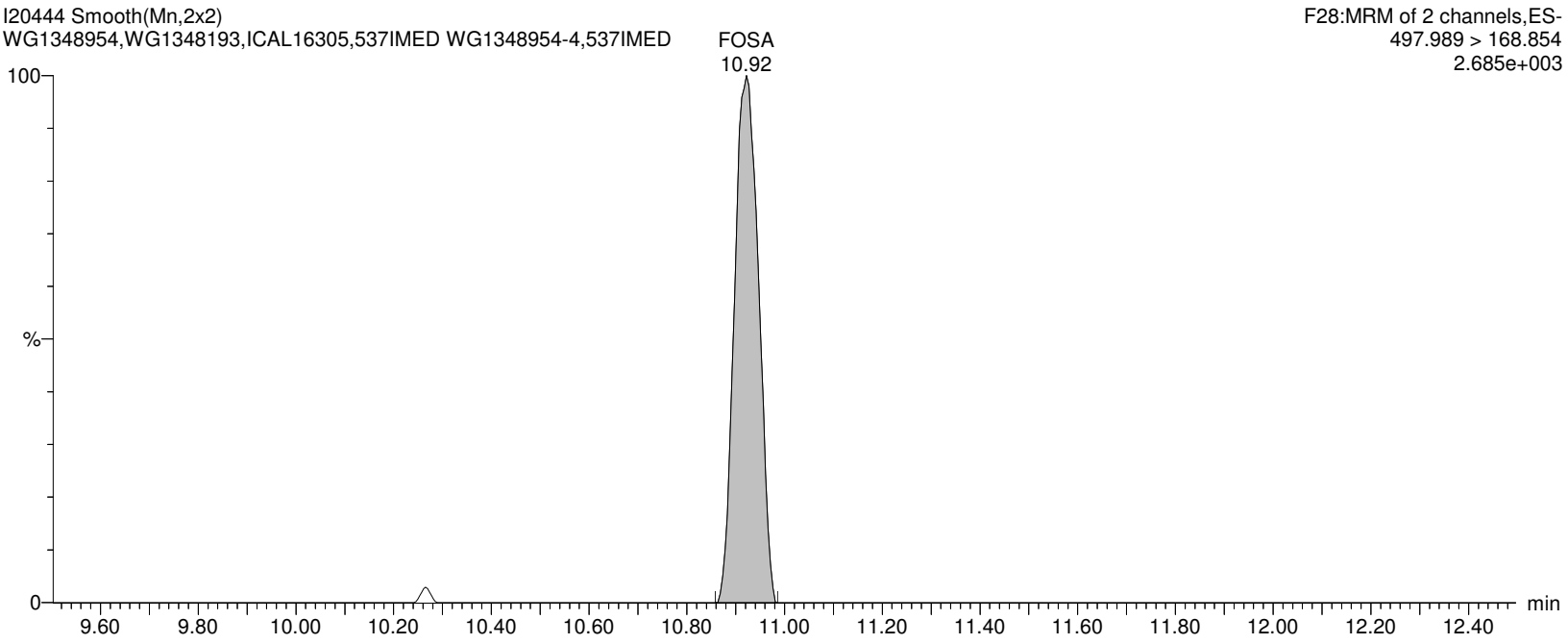

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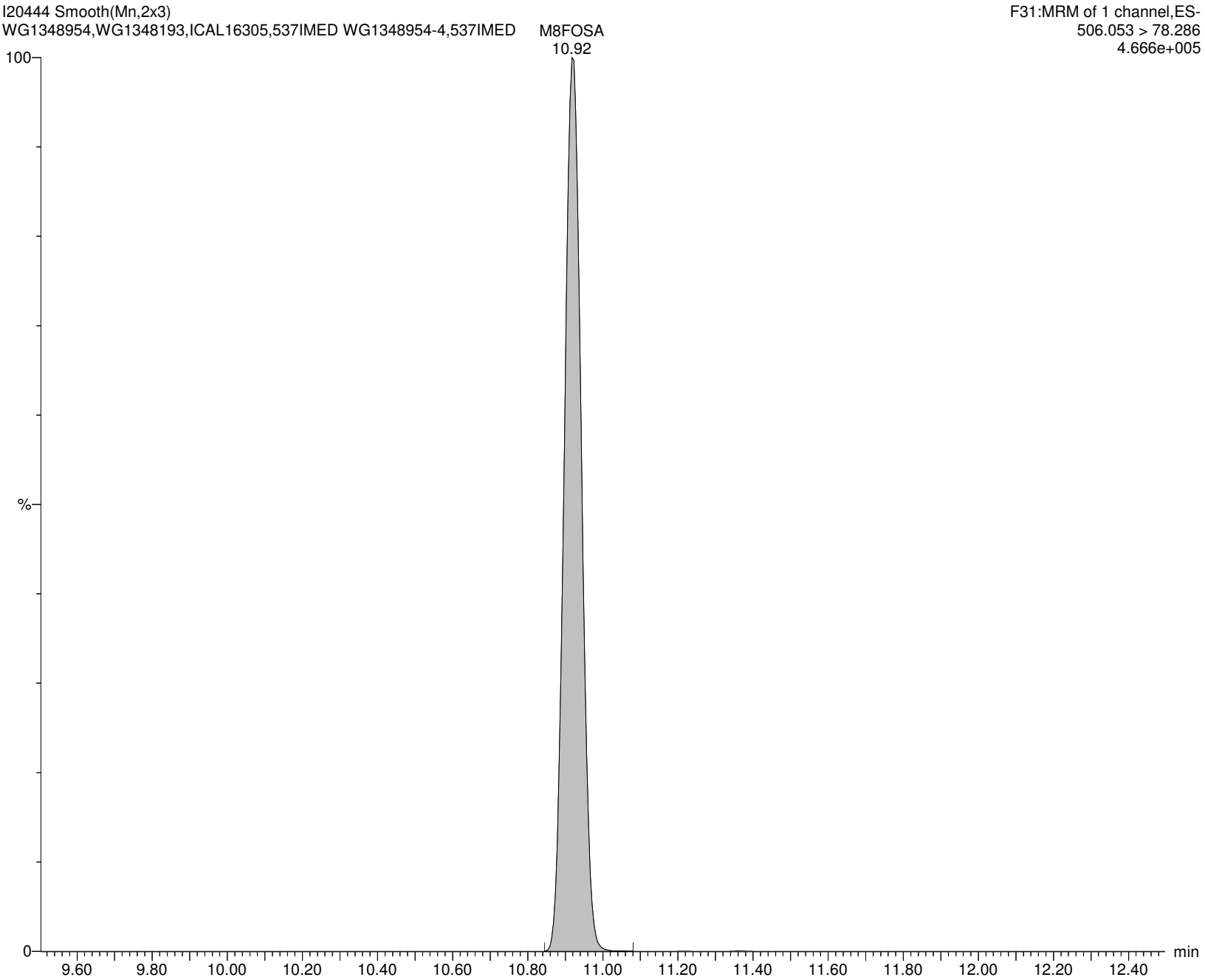

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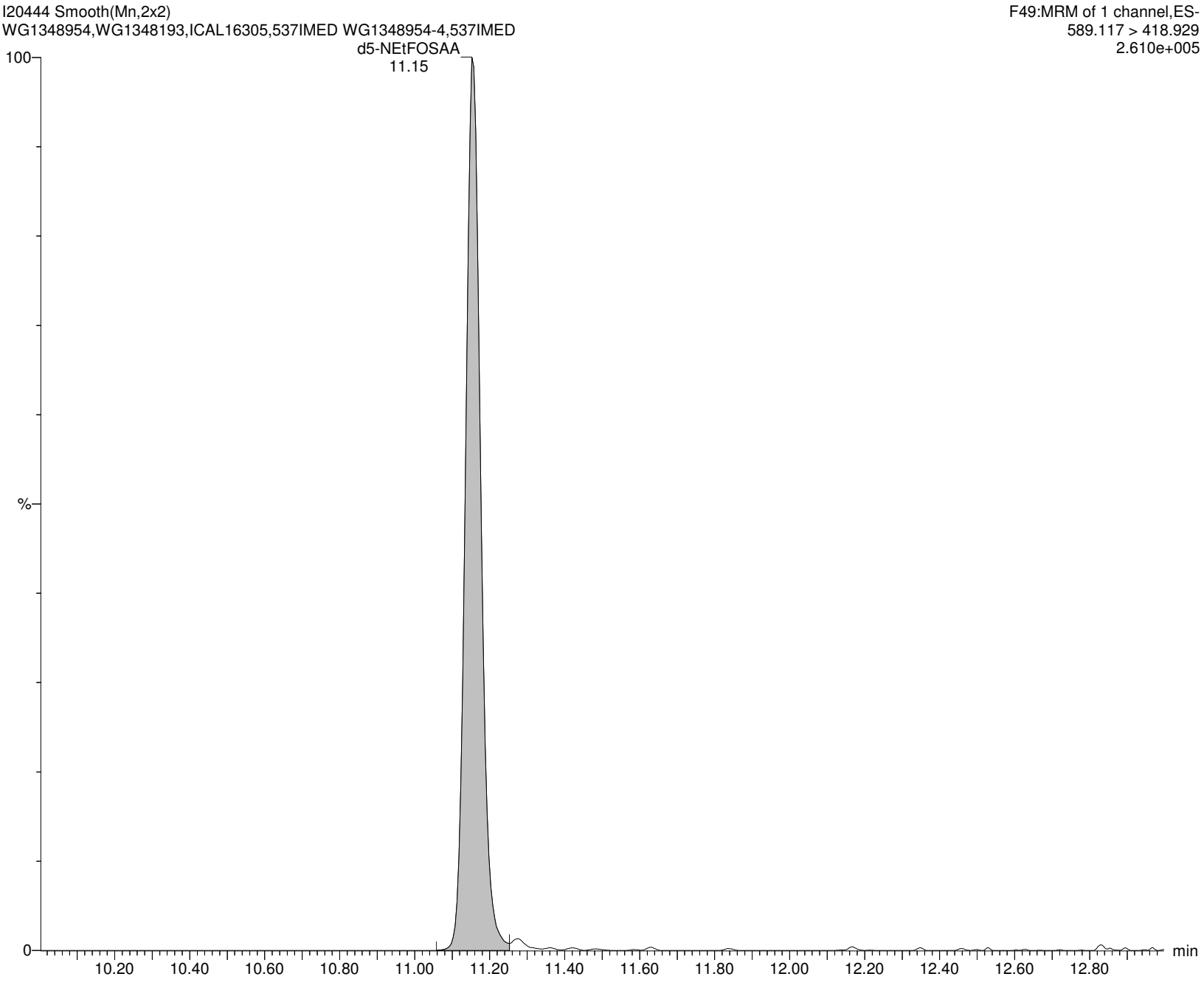

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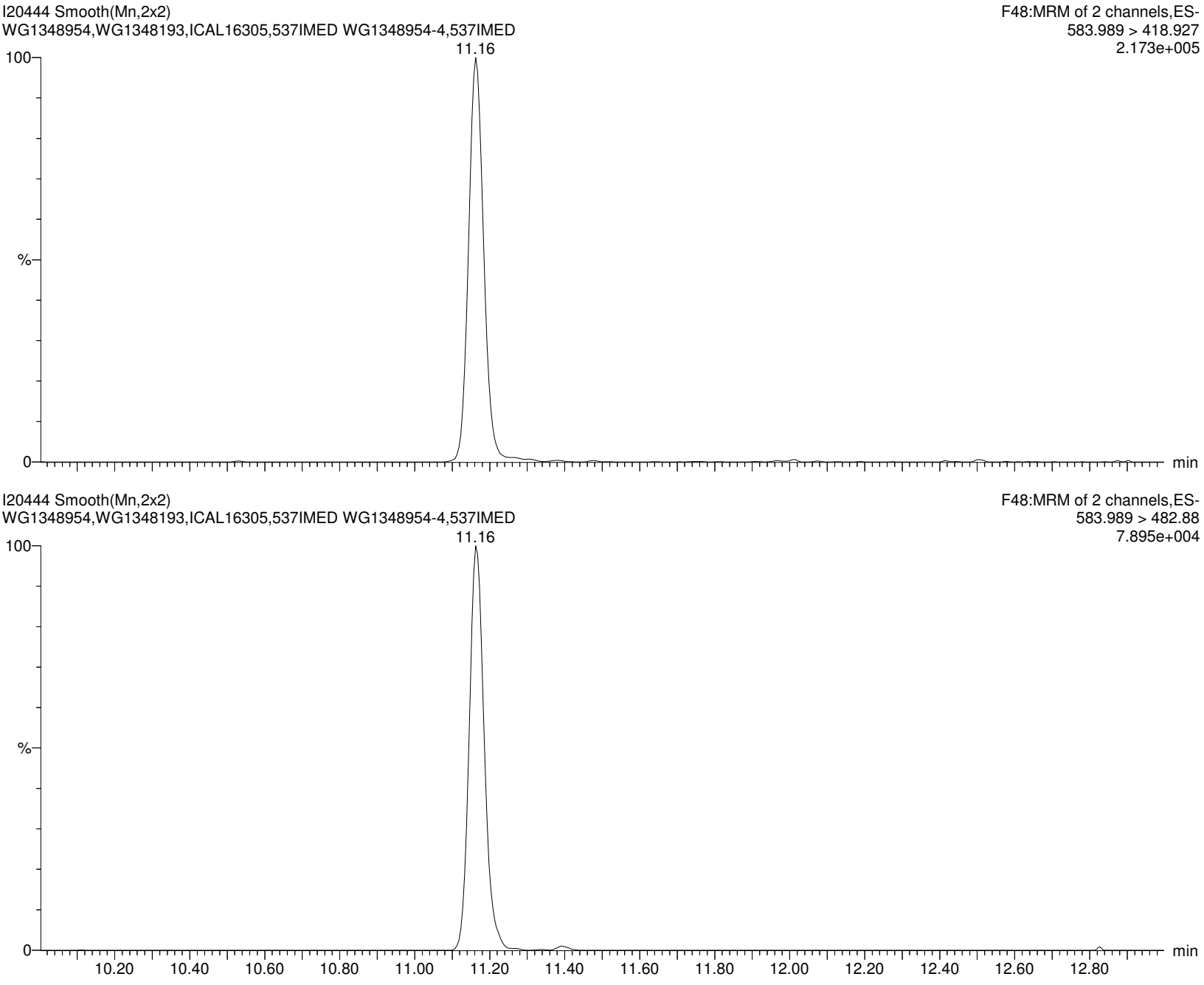

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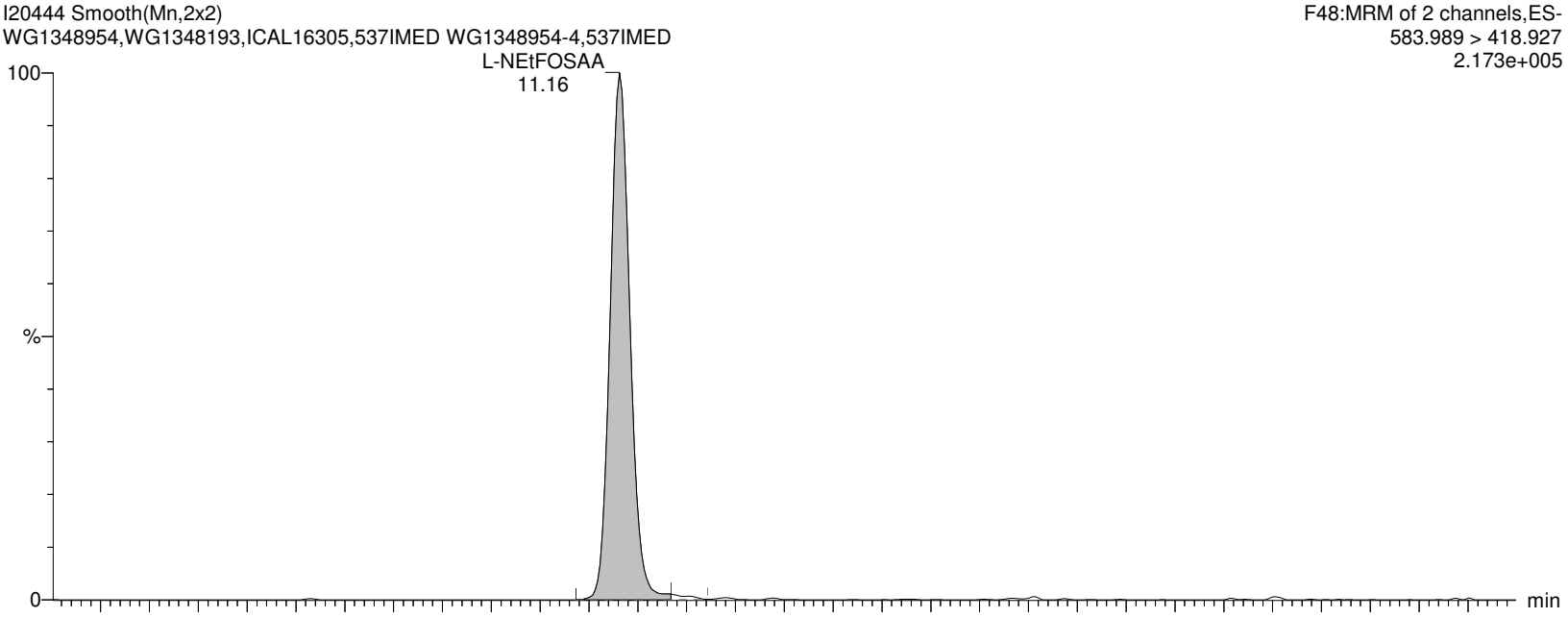

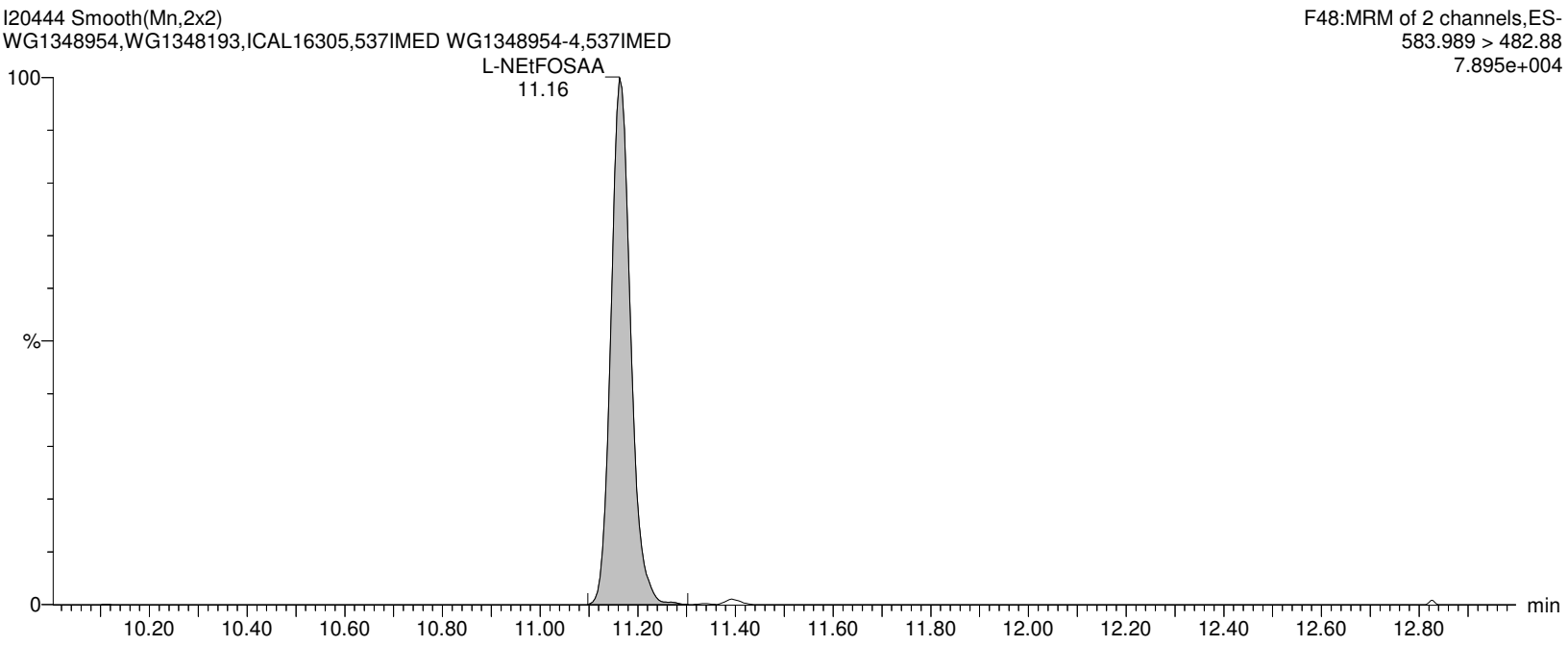

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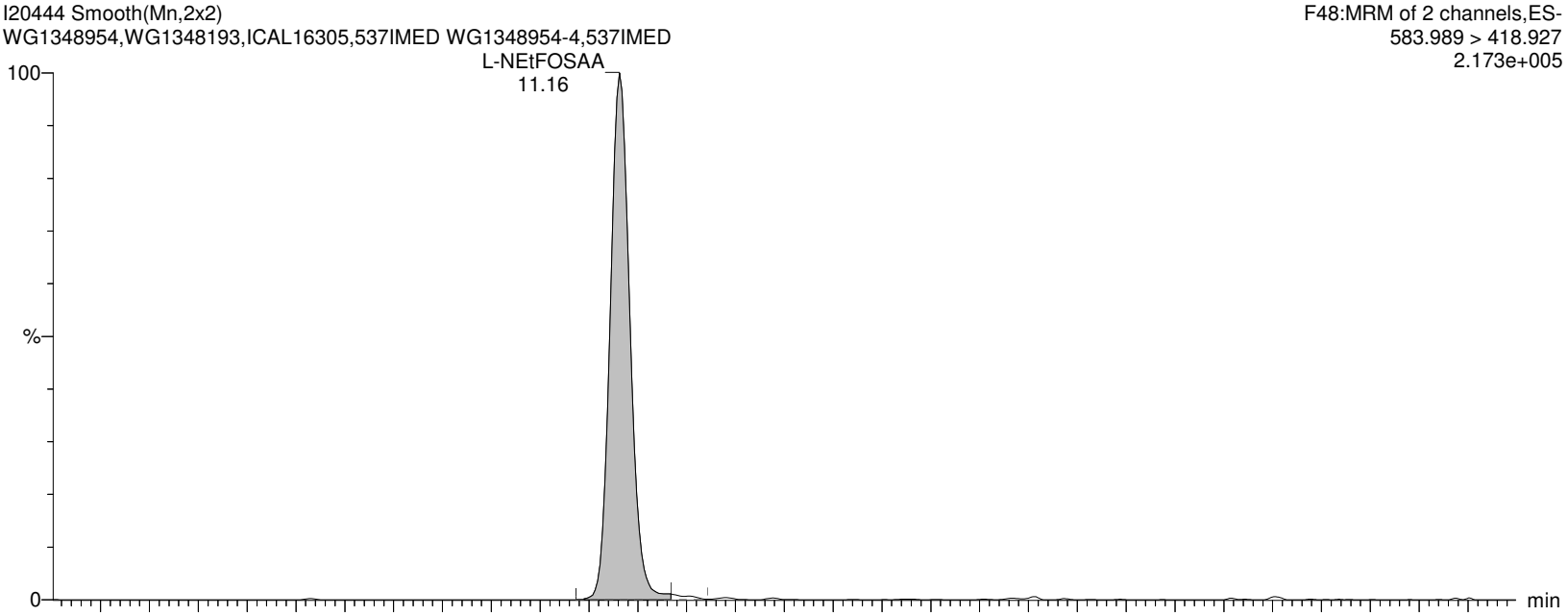

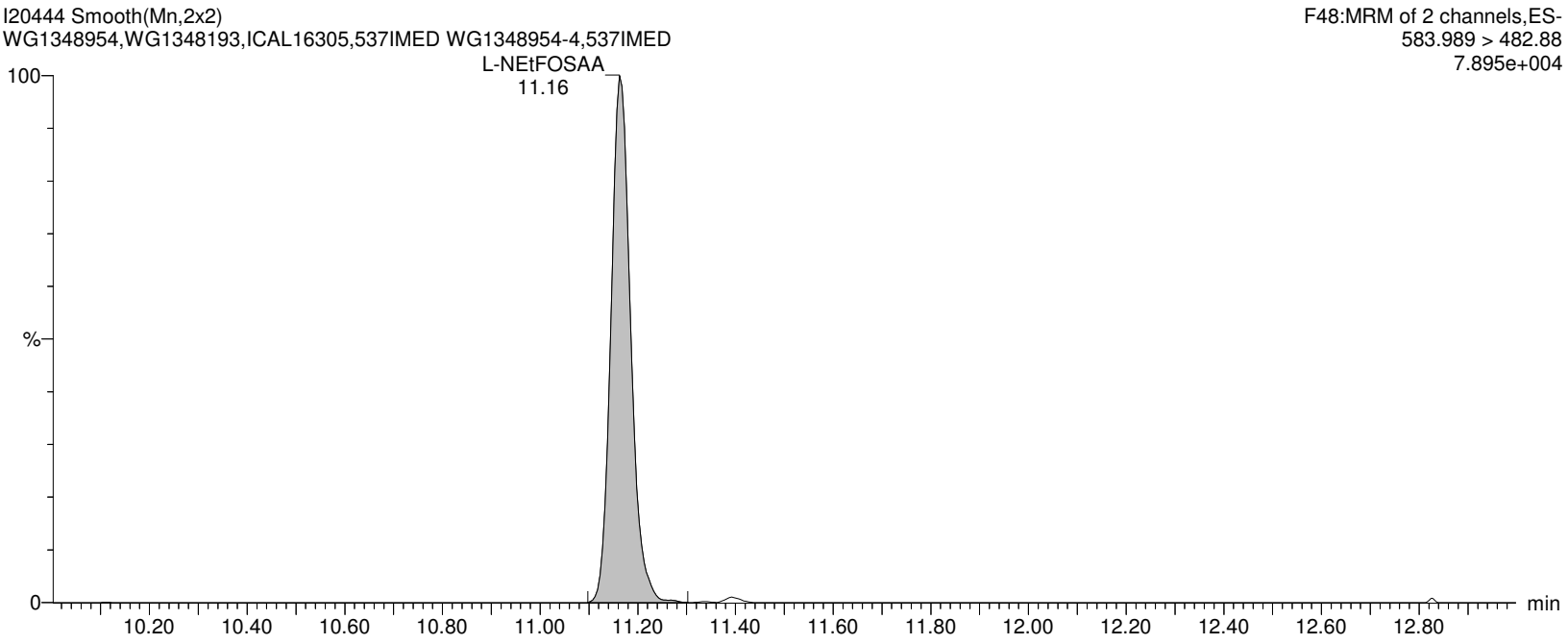

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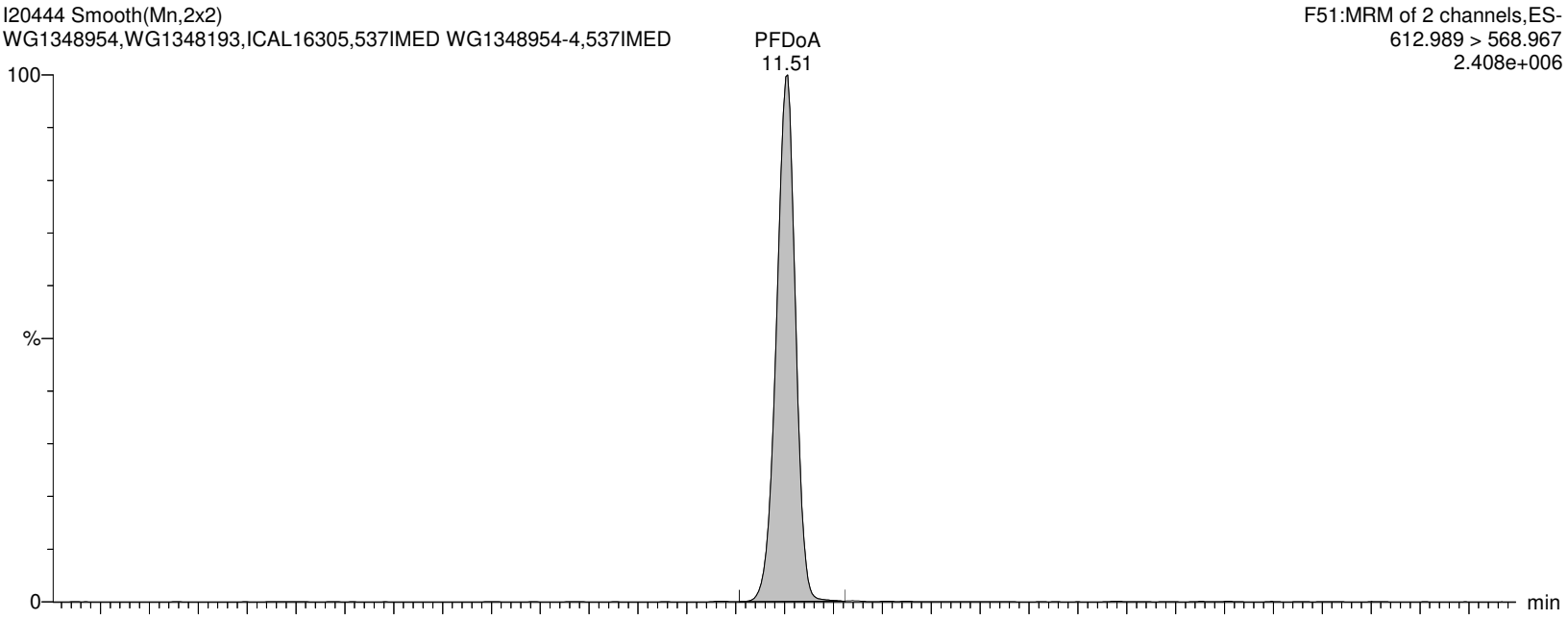

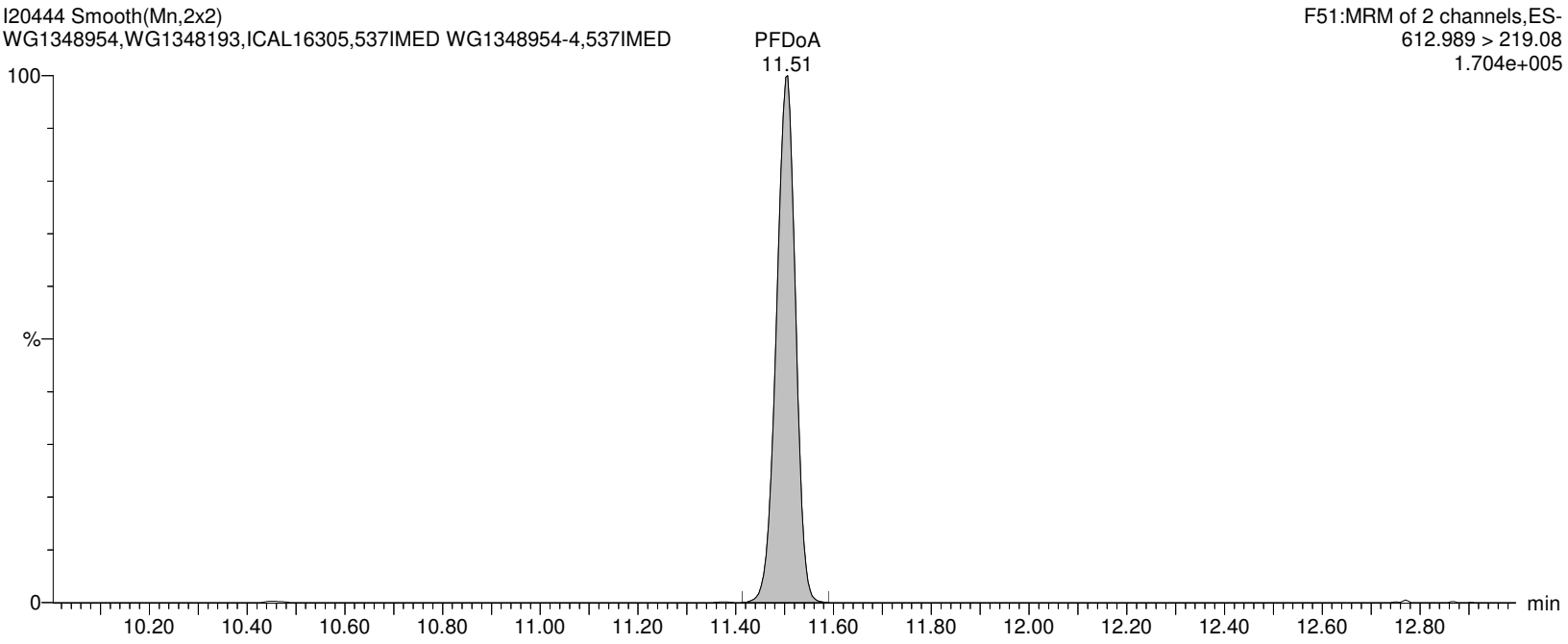

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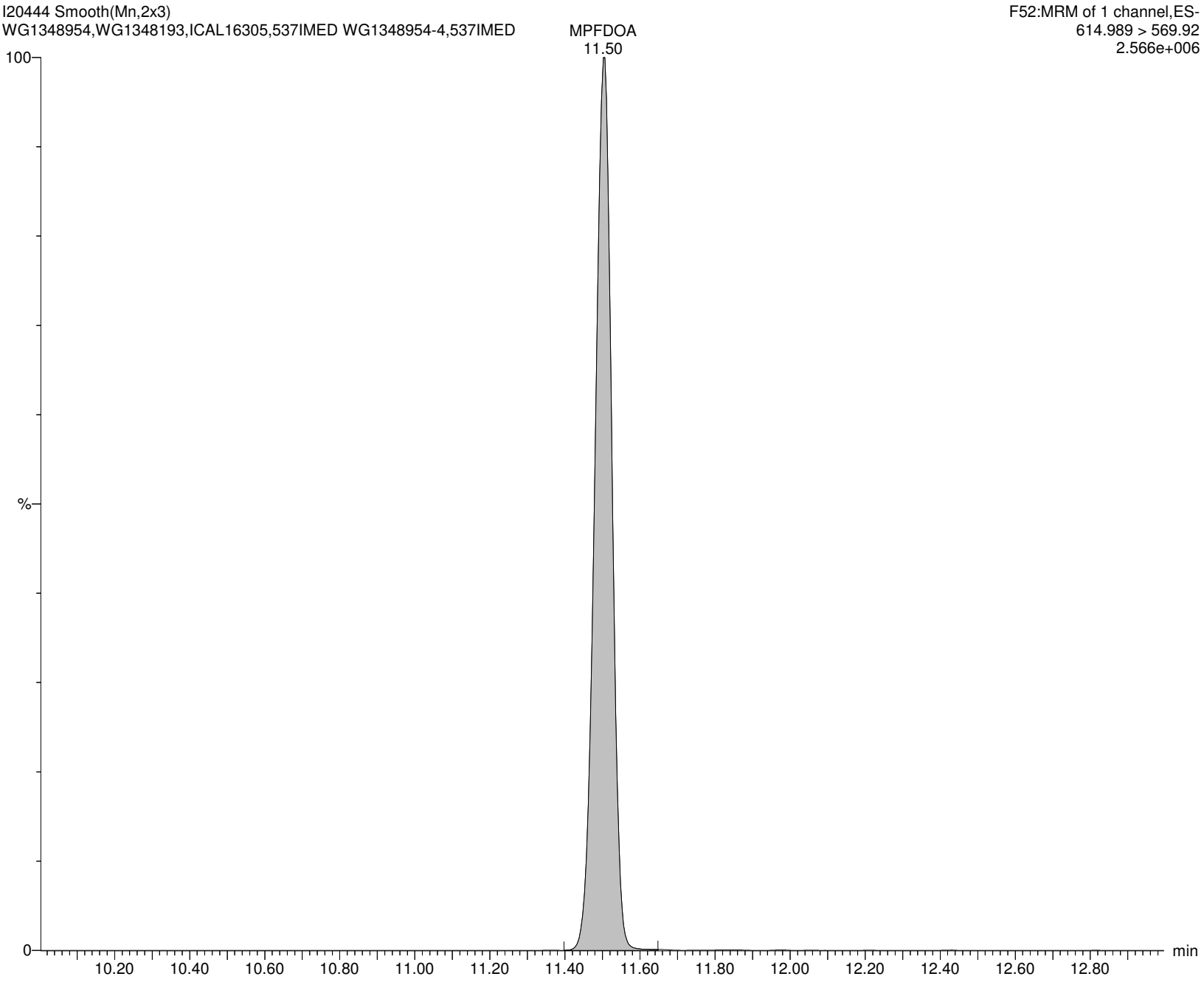

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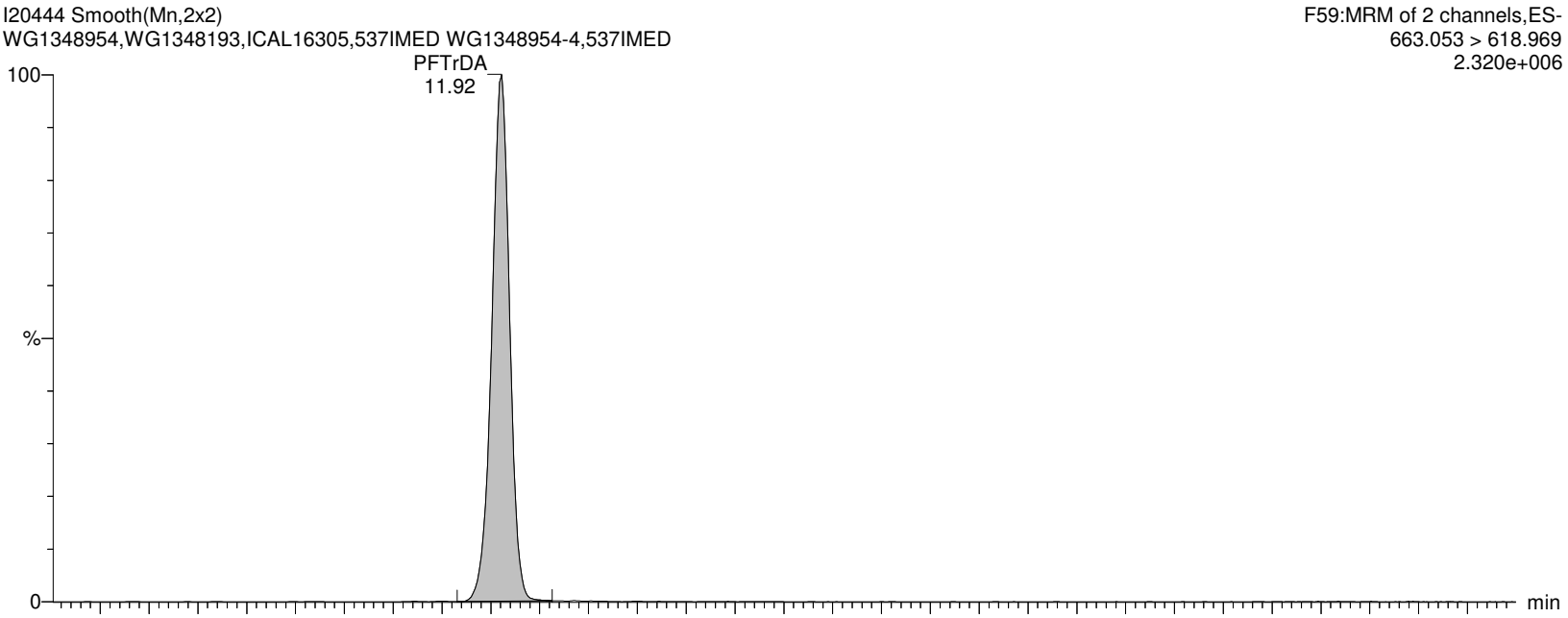

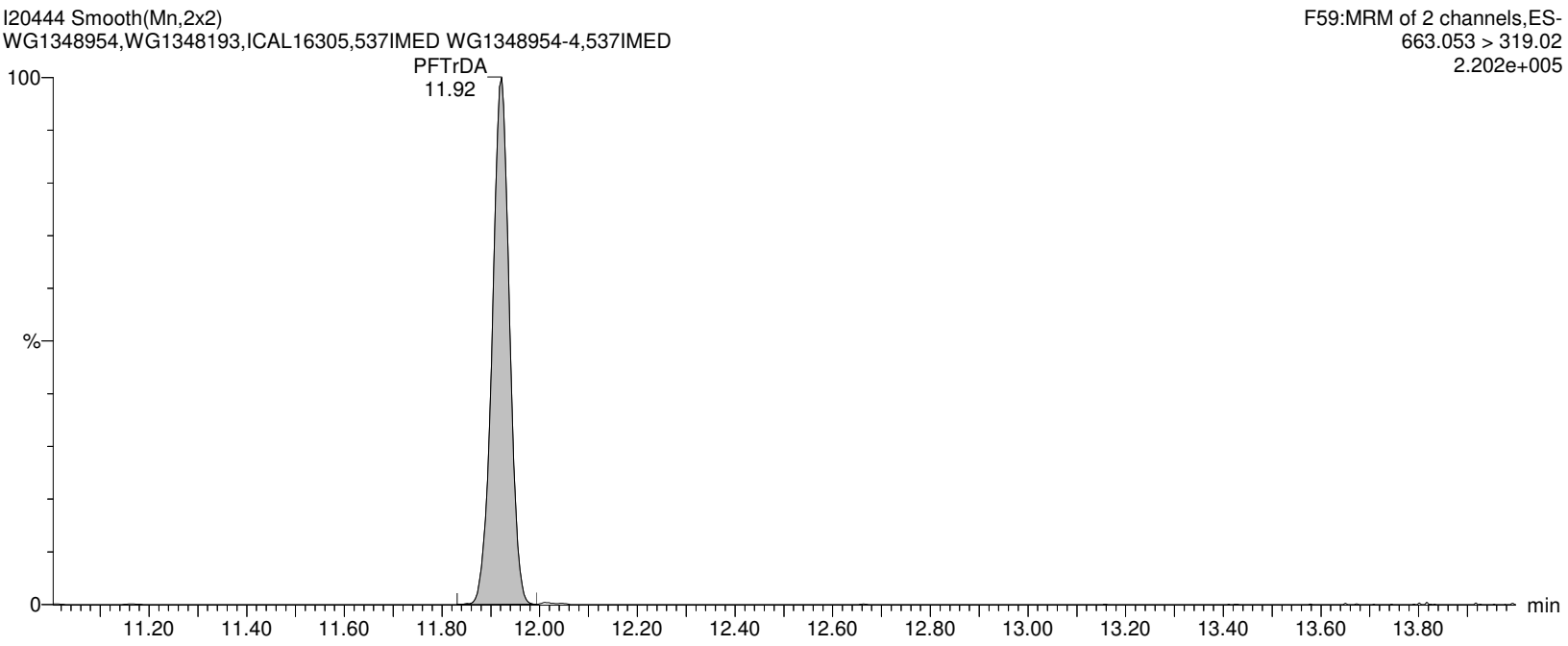

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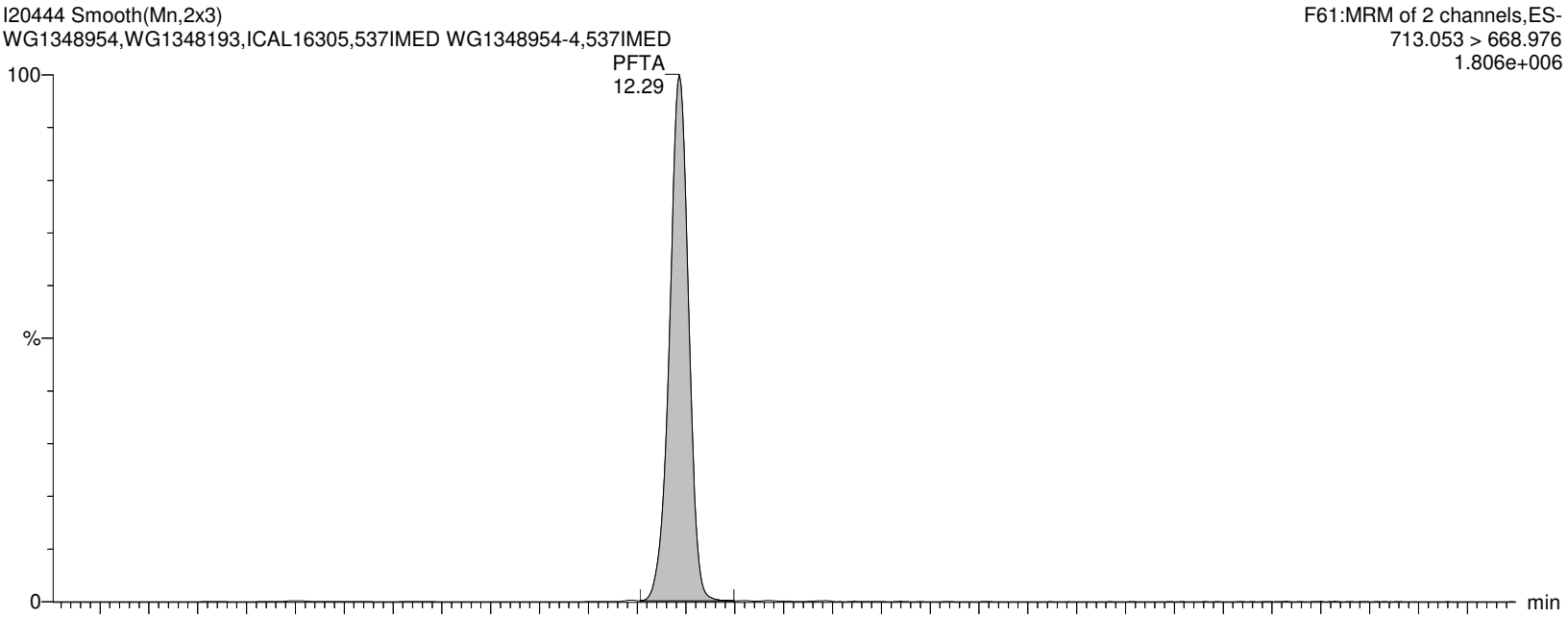

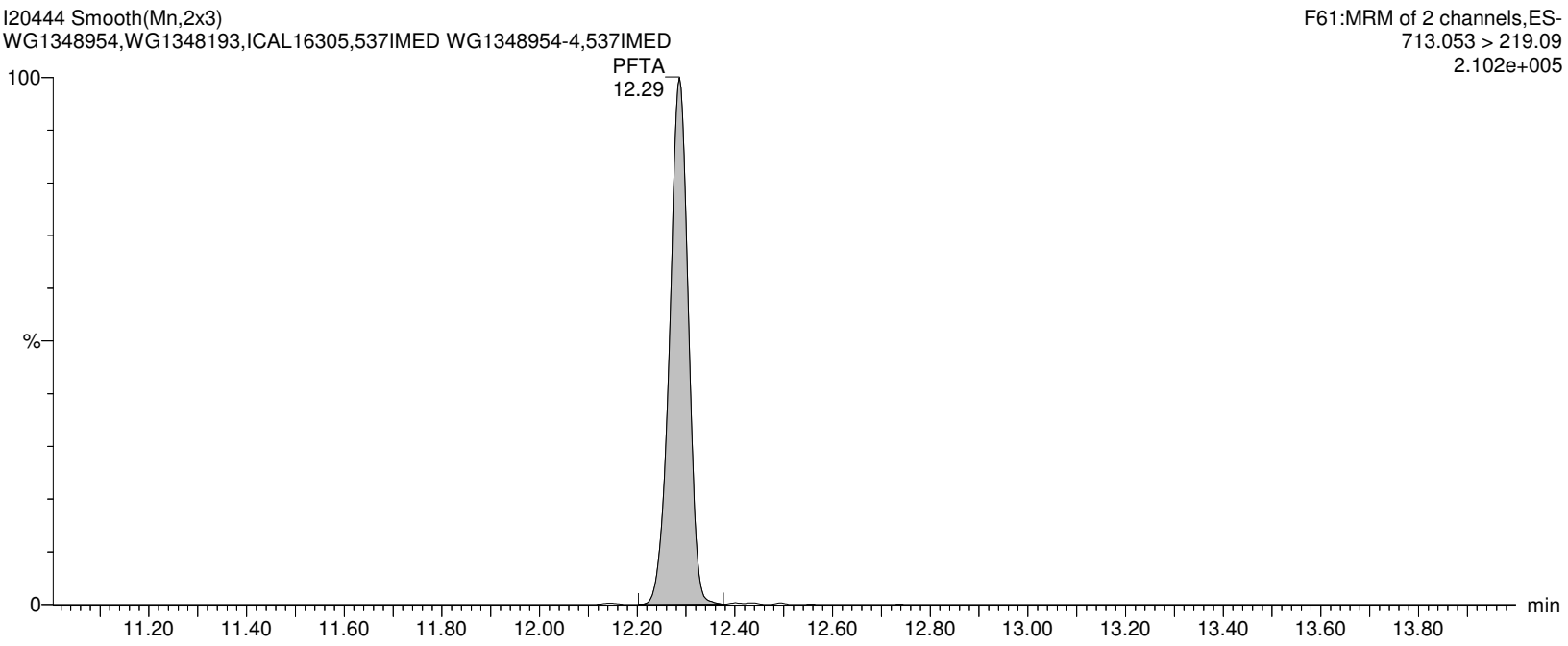

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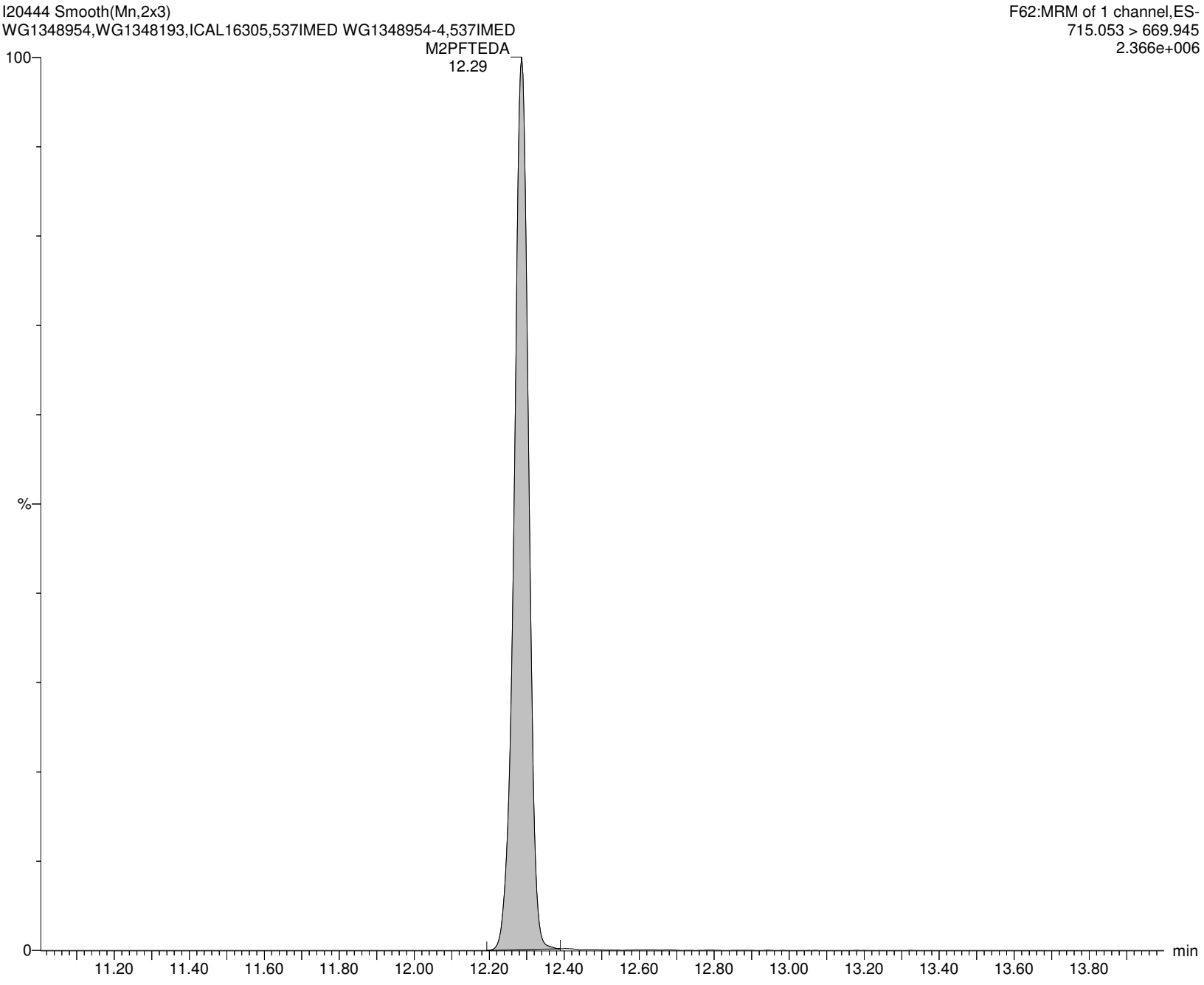

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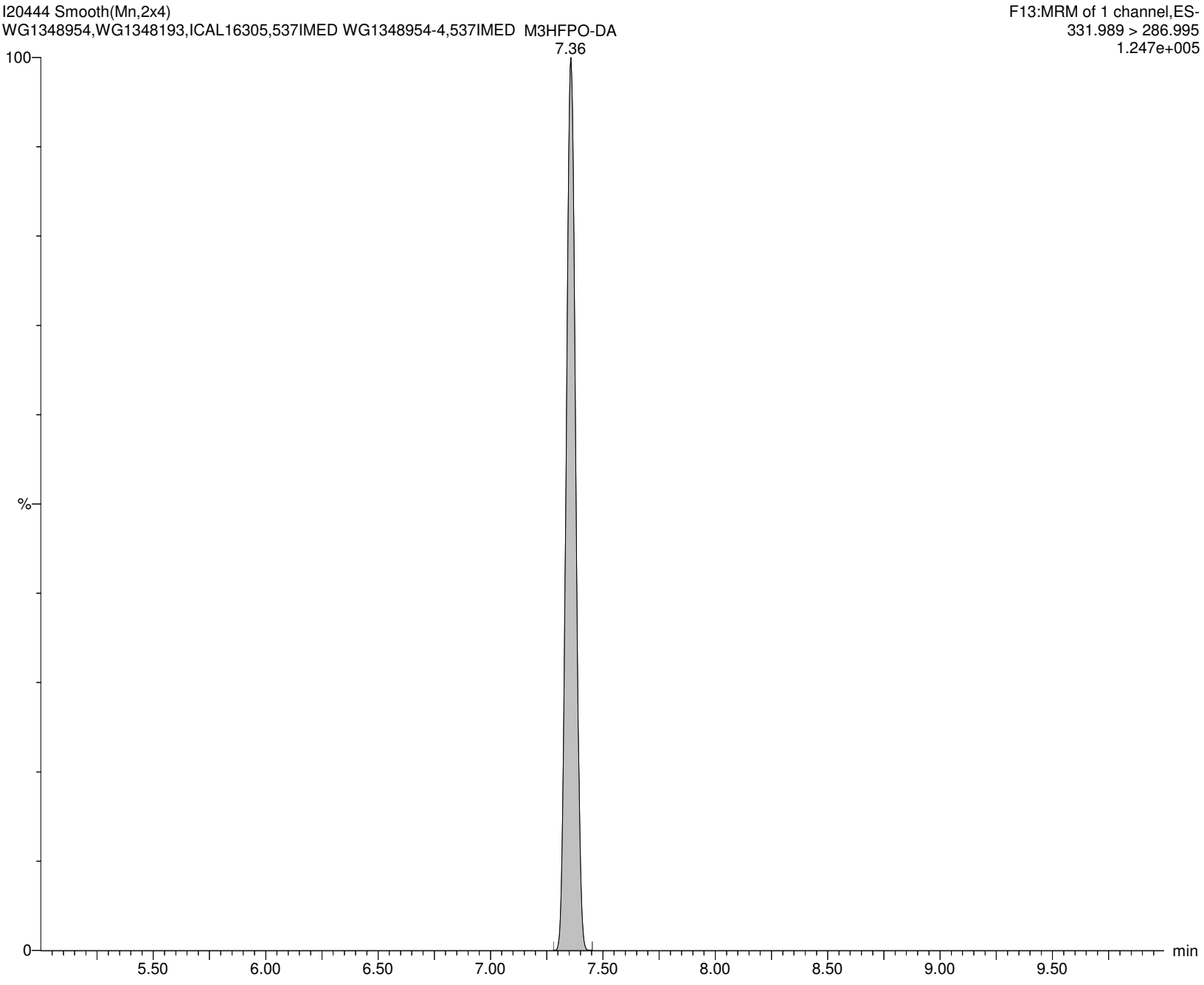

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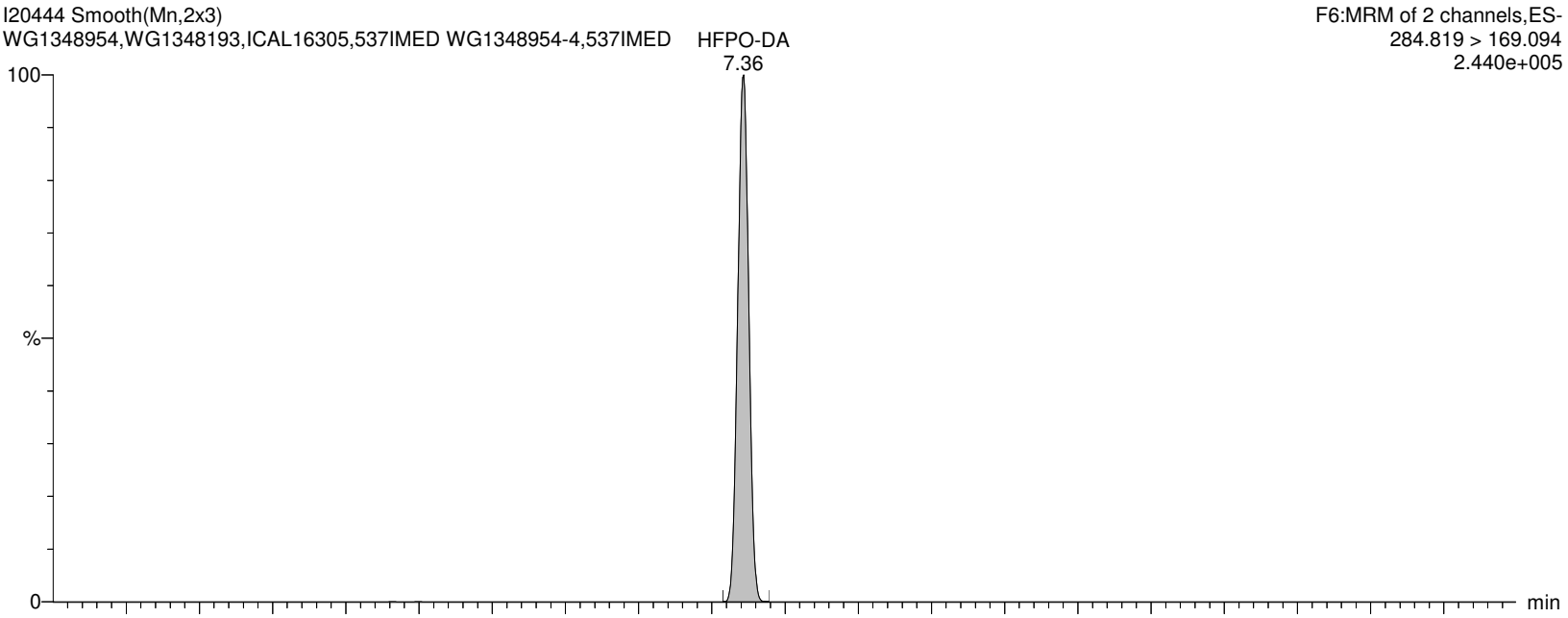

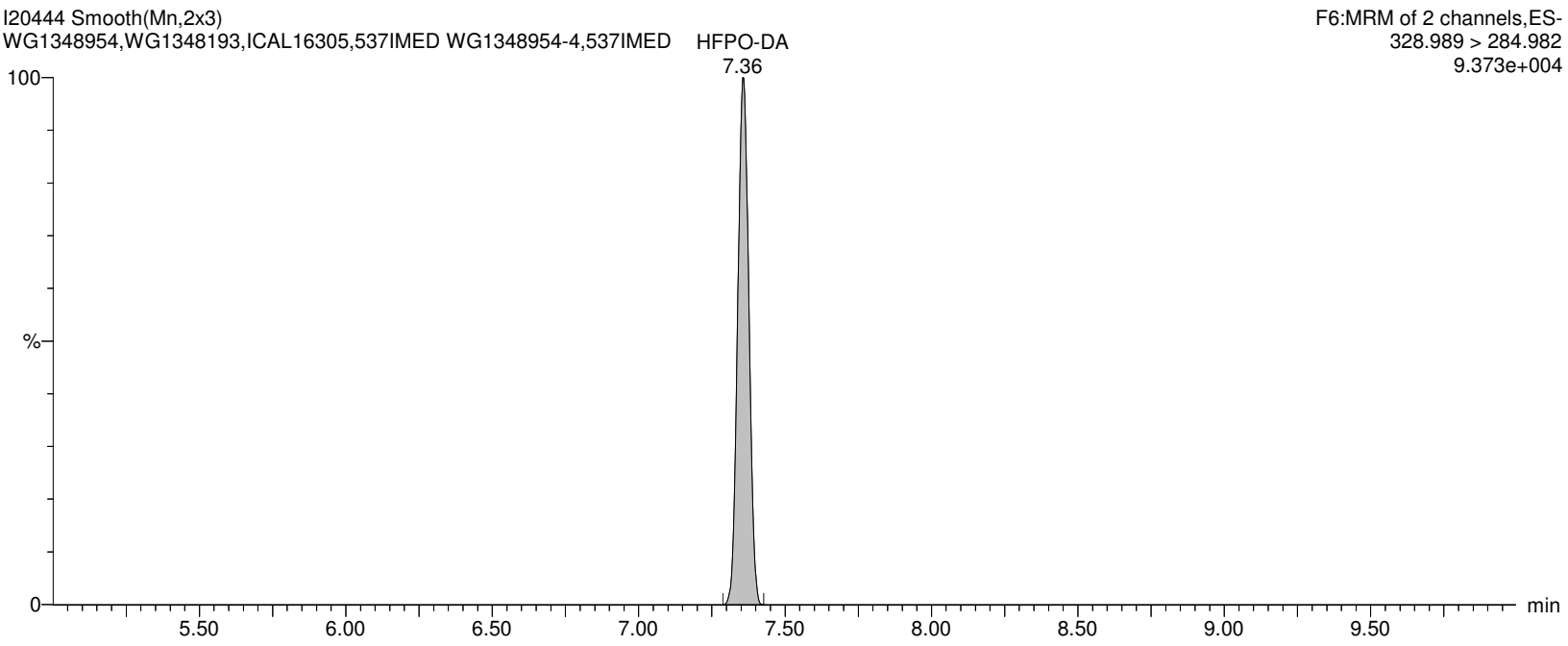

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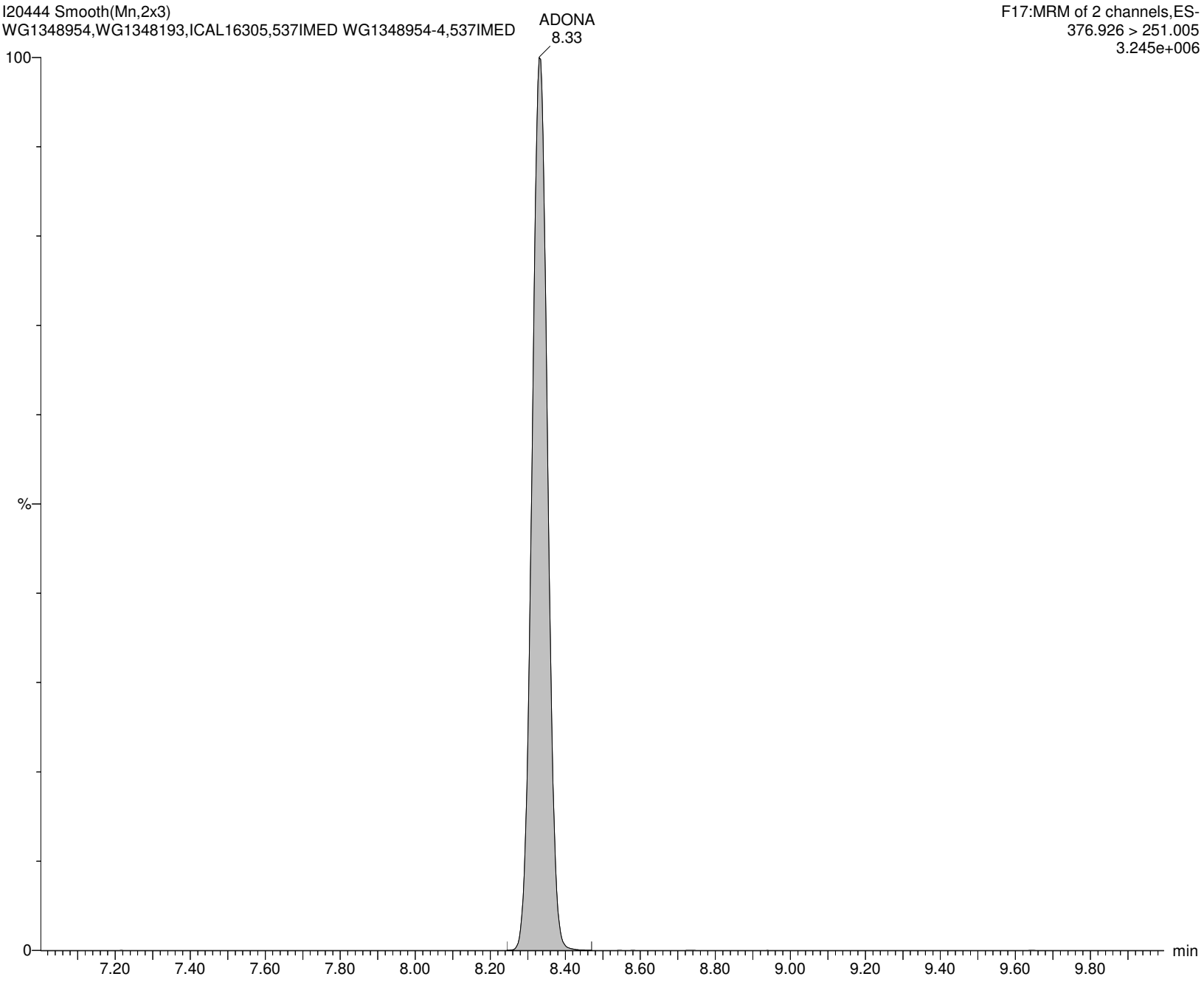

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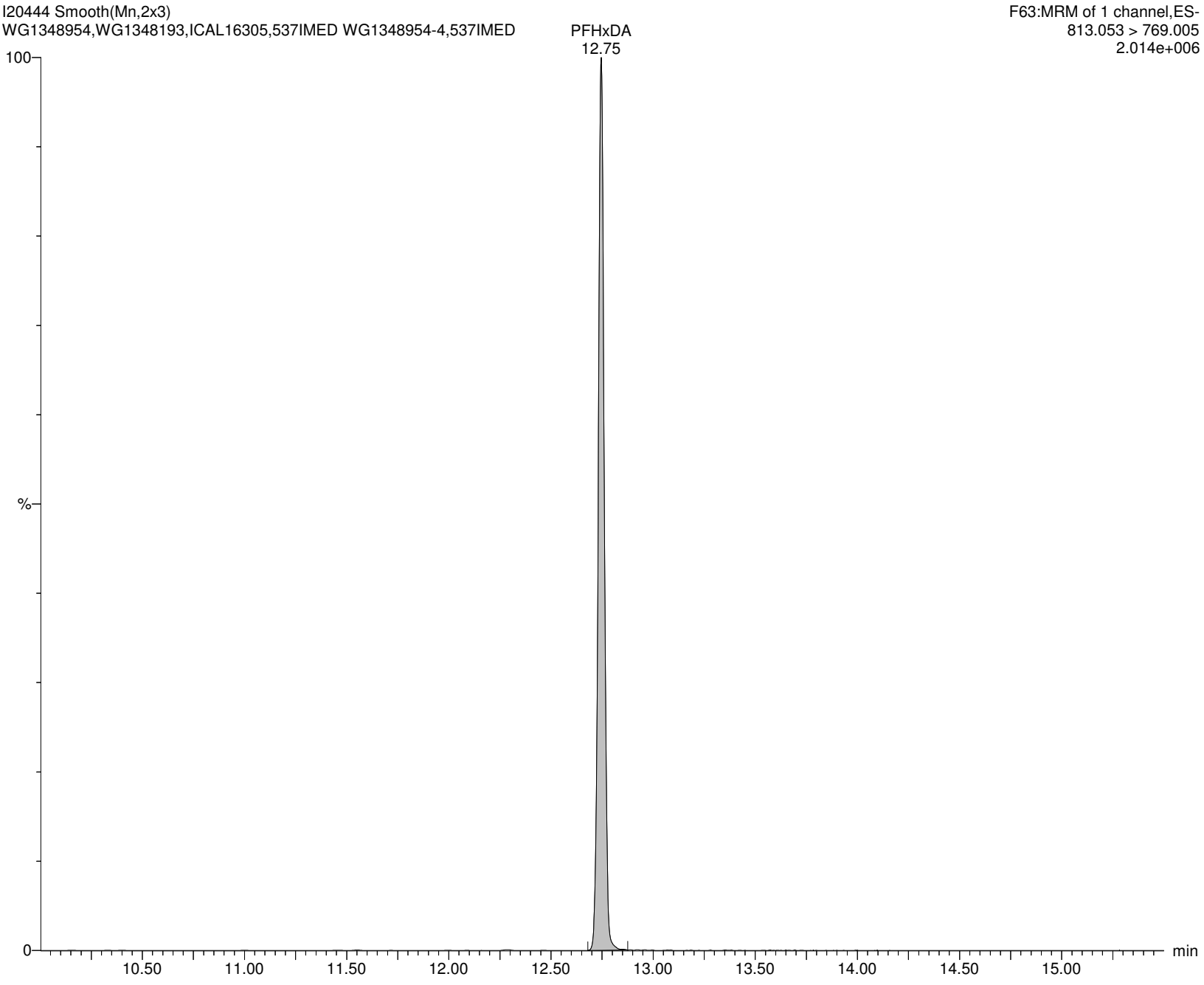
PFHxDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:36:37 Eastern Daylight Time

Name: I20444
ID: WG1348954-4,537IMED
Date: 10-Mar-2020
Time: 23:50:12
Description: WG1348954,WG1348193,ICAL16305,537IMED
User: LCMS02:RS
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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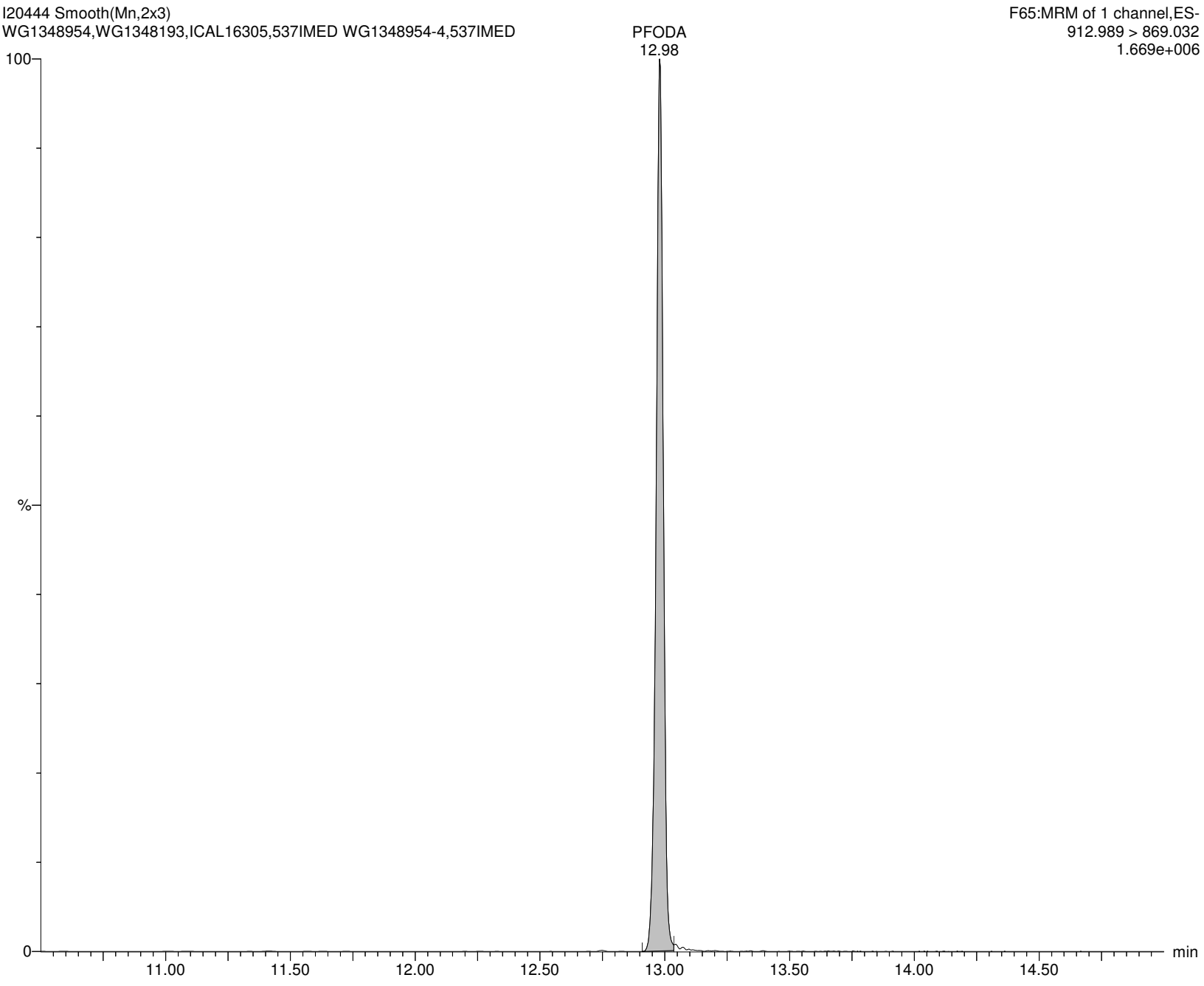

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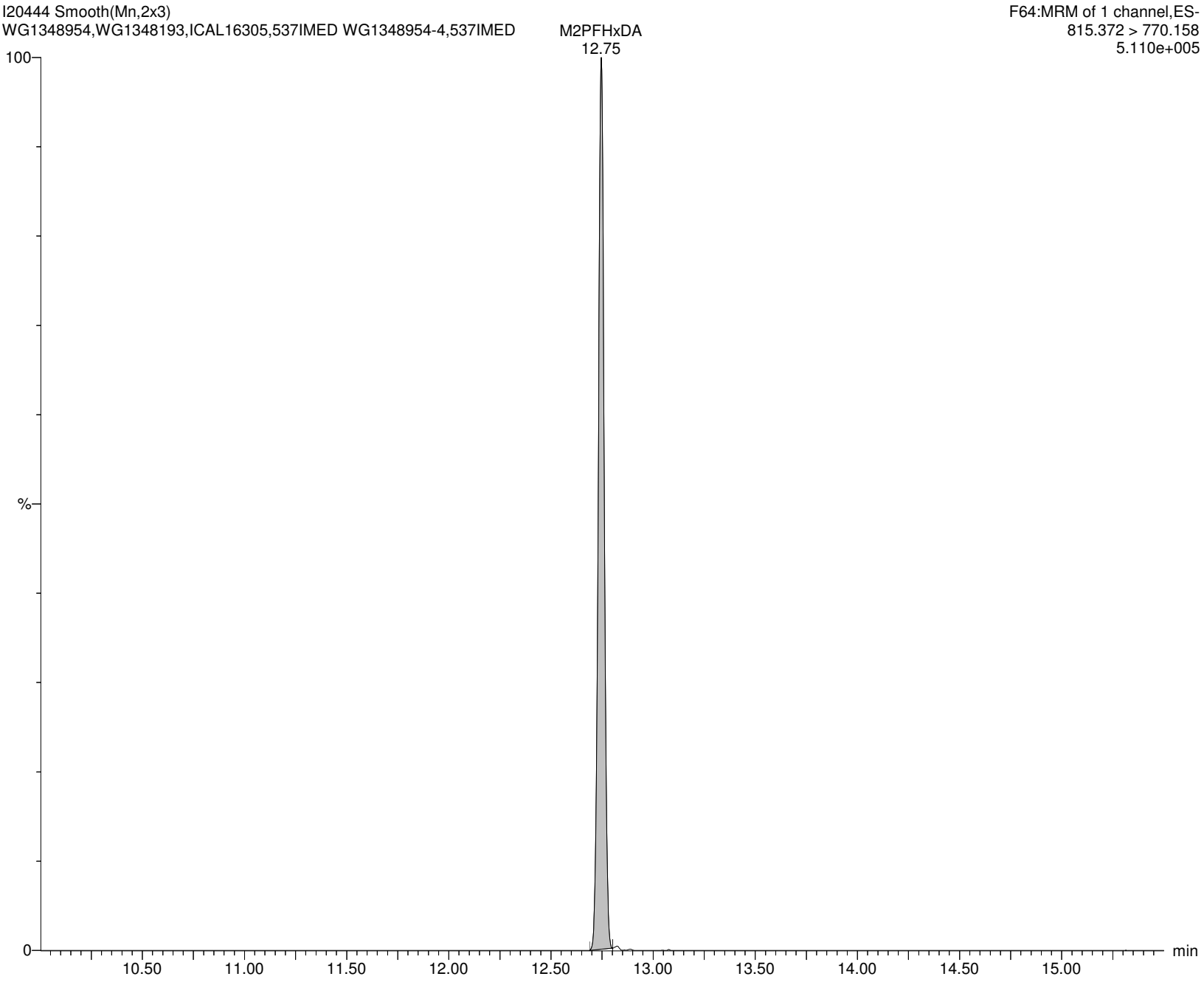
M2PFHxDA



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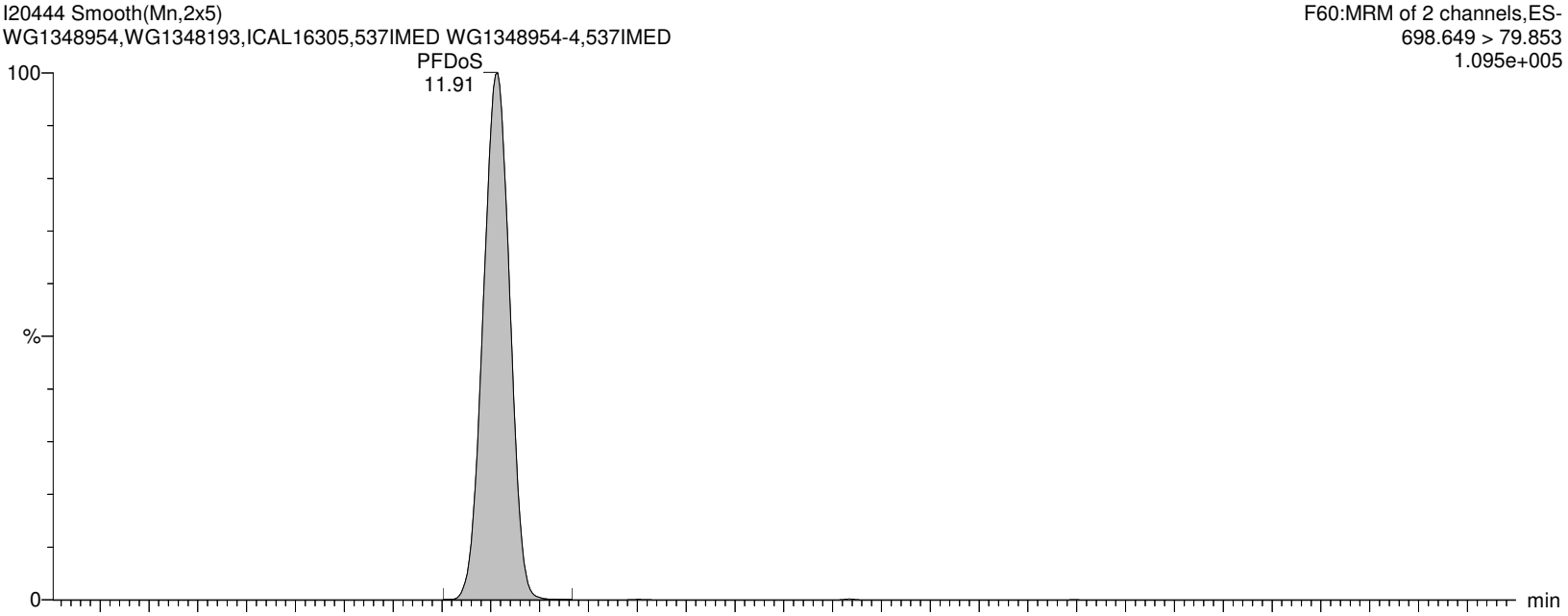

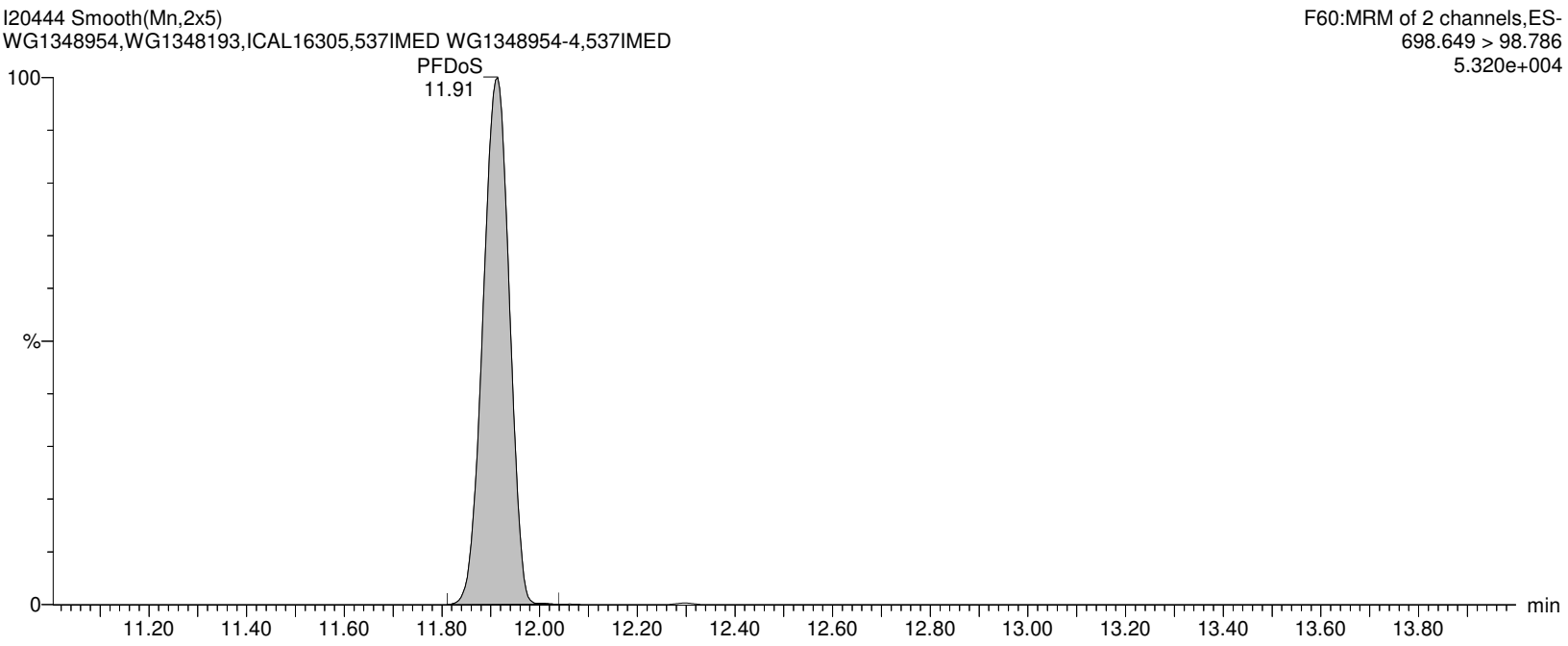

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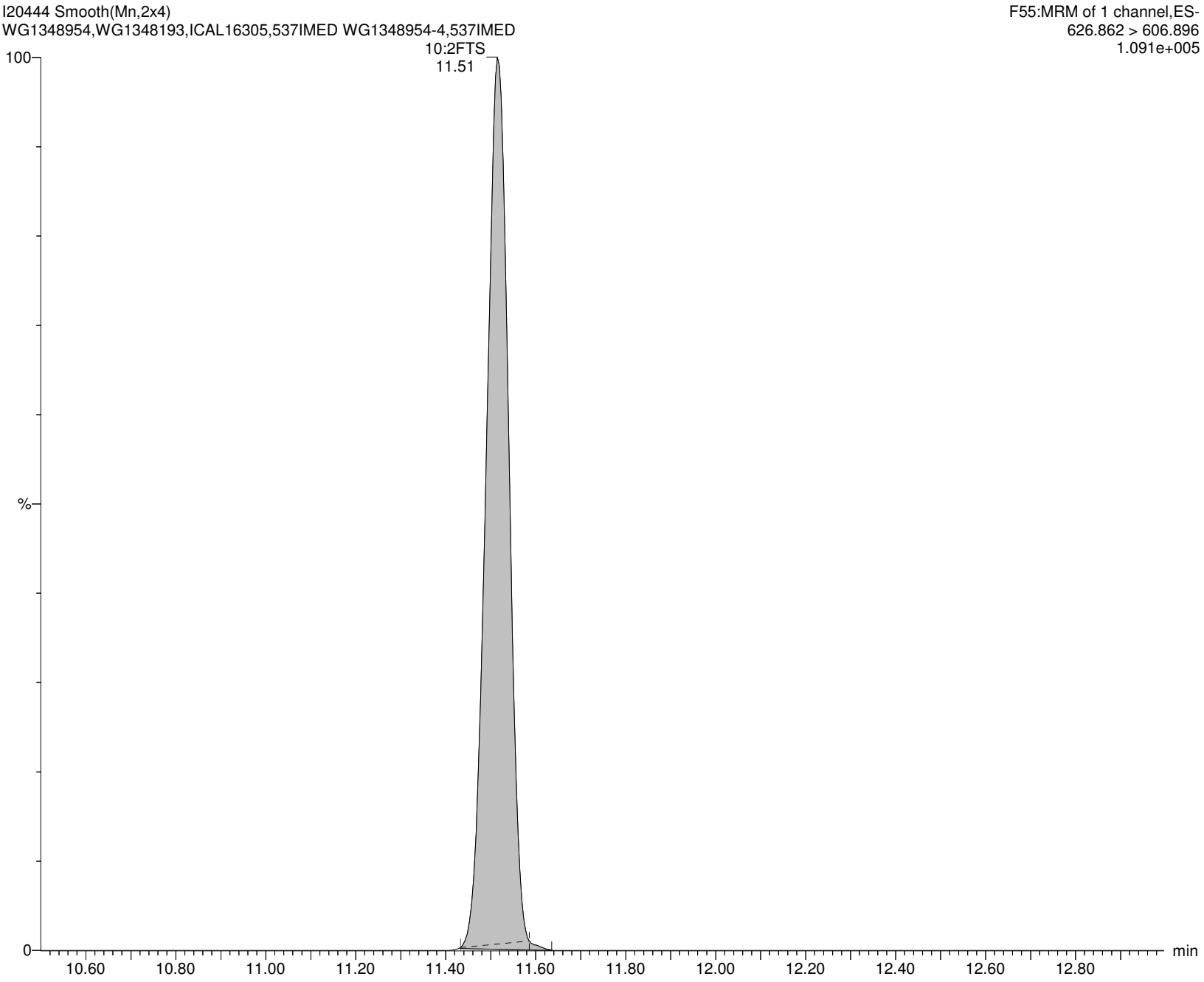

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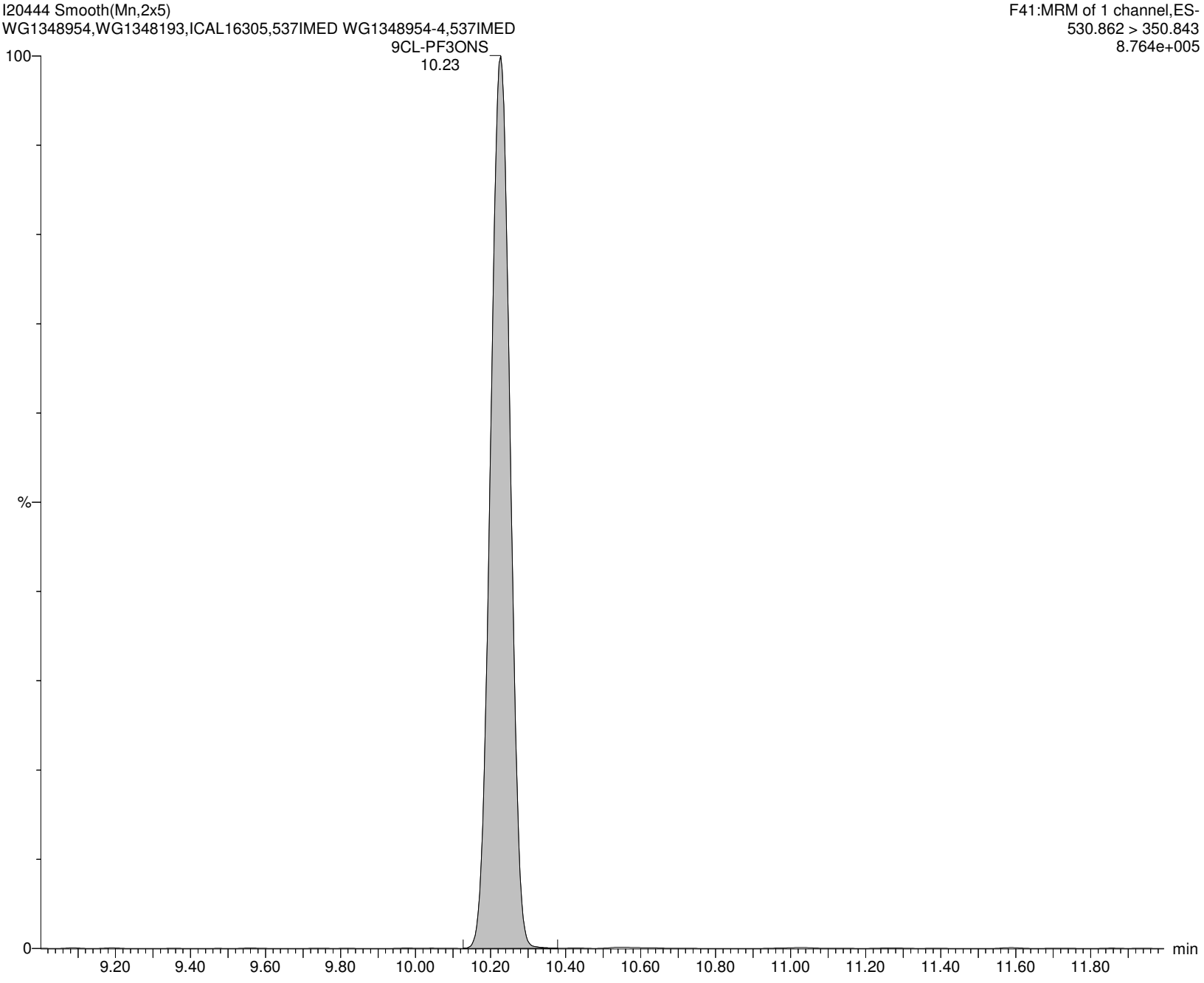
9CL-PF3ONS



all concentration units in (ng/mL)

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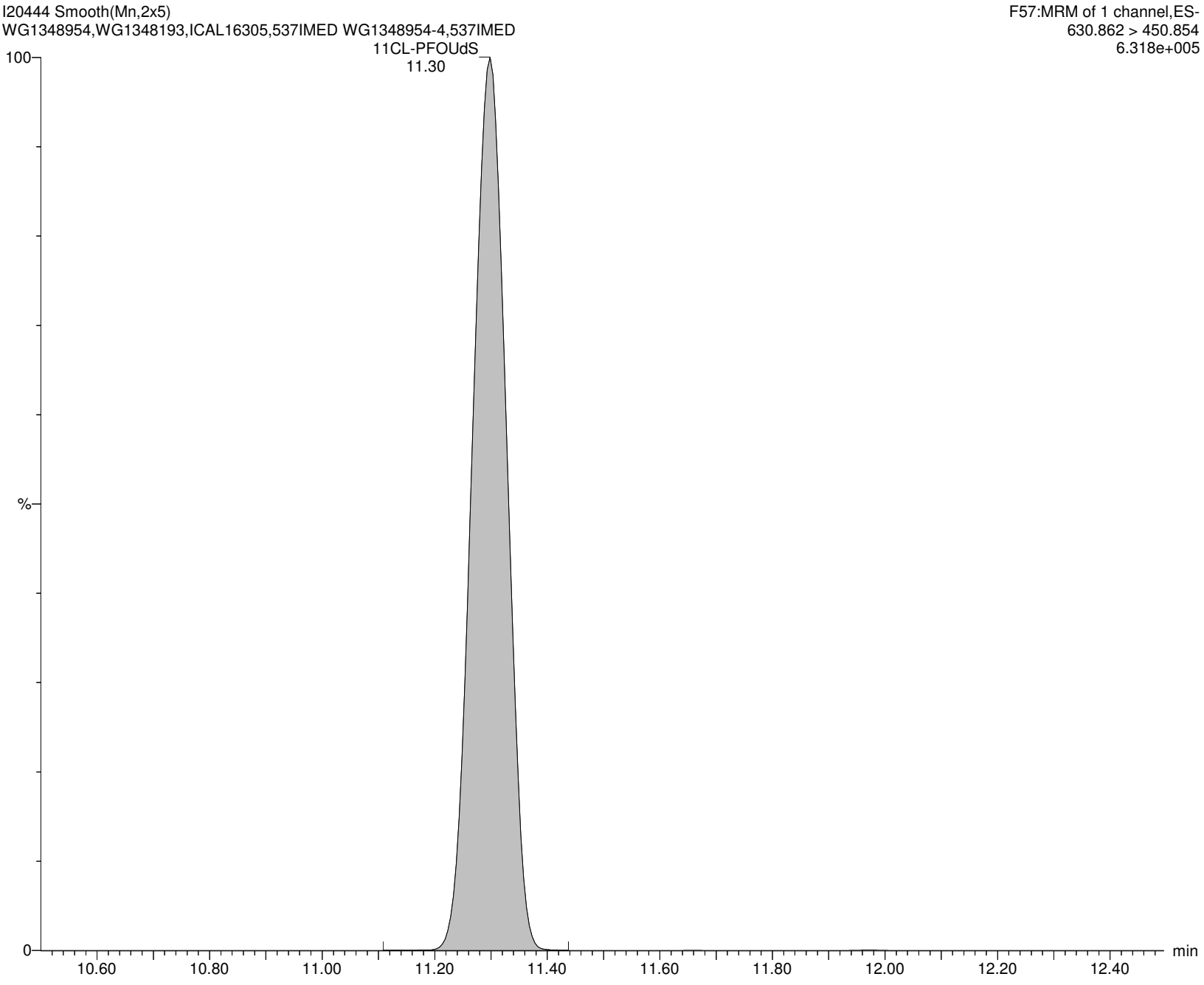
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

11CL-PFOUdS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:43 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2020\200309_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 14:41:42

ID: WG1348954-5,537ILOW
Name: I20457
Date: 11-Mar-2020
Time: 03:27:13
Description: WG1348954,WG1347969,ICAL16305,537ILOW
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.19	212.926 > 169.111	2423		0.466		na	93.2
2	M3PFBA	INT STD	2.18	215.926 > 172.122	53277		11.498		na	115.0
3	MPFBA	INT STD	2.18	216.926 > 172.137	62281		10.742		na	107.4
4	PFPeA	2706-90-3	5.06	262.926 > 219.002	4679	M4	0.521		na	104.3
5	M5PFPEA	INT STD	5.06	267.989 > 223.081	92936		11.301		na	113.0
6	PFBS	375-73-5	5.70	298.926 > 79.923	737		0.411	1.92	NO	92.8
7	M3PFBS	INT STD	5.70	301.989 > 80.254	12212		9.728		na	97.3
8	4:2FTS	757124-72-4	6.85	326.926 > 306.957	379		0.409	1.90	NO	87.5
9	M2-4:2FTS	INT STD	6.84	329.117 > 309.079	8361		10.258		na	102.6
10	PFHxA	307-24-4	6.93	312.989 > 269.028	5568	M4	0.543	20.05	NO	108.7
11	M5PFHxA	INT STD	6.93	317.989 > 273.045	111334		10.799		na	108.0
12	PFPeS	2706-91-4	7.24	348.926 > 80.251	381		0.298	1.59	NO	63.4
13	PFHpA	375-85-9	8.17	362.926 > 319.014	6583	M4	0.484	5.89	NO	96.7
14	M4PFHpA	INT STD	8.17	366.926 > 321.979	150924		10.990		na	109.9
15	br-PFHxS	355-46-4	8.10	398.926 > 80.295	52	M5	0.058	1.49	NO	68.4
16	L-PFHxS	355-46-4	8.32	398.926 > 80.295	228		0.238	0.92	NO	64.3
17	PFHxS	355-46-4		398.926 > 80.295	280		0.296		na	
18	M3PFHxS	INT STD	8.32	401.926 > 80.317	7655		10.565		na	105.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.08	412.989 > 368.9	6653		0.491	10.06	NO	98.3
21	PFOA	335-67-1		412.989 > 368.9	6653		0.491		na	
22	M8PFOA	INT STD	9.08	420.989 > 375.979	147427		11.187		na	111.9
23	M2PFOA	INT STD	9.08	415.032 > 369.968	134679		12.740		na	127.4
24	6:2FTS	27619-97-2	9.04	426.989 > 406.921	306		0.454		YES	95.7
25	M2-6:2FTS	INT STD	9.04	428.989 > 408.917	8297		10.417		na	104.2
26	PFHpS	375-92-8	9.18	448.926 > 80.257	277		0.426	1.09	YES	89.6
27	PFNA	375-95-1	9.84	462.989 > 418.931	5819		0.472	5.00	NO	94.4
28	M9PFNA	INT STD	9.84	472.053 > 426.947	150421		11.601		na	116.0
29	br-PFOS	1763-23-1	9.69	498.989 > 80.294	24		0.019	0.74	NO	18.8
30	L-PFOS	1763-23-1	9.89	498.989 > 80.294	246		0.253	1.57	YES	69.3
31	PFOS	1763-23-1		498.989 > 80.294	270		0.272		na	
32	M4PFOS	INT STD	9.89	503.032 > 80.306	8968		12.841		na	128.4
33	M8PFOS	INT STD	9.89	507.053 > 80.294	9896		10.754		na	107.5
34	PFDA	335-76-2	10.48	513.053 > 468.906	6200	M4	0.493	6.90	NO	98.6
35	M2PFDA	INT STD	10.48	515.053 > 469.934	128175		14.517		na	145.2
36	M6PFDA	INT STD	10.48	519.053 > 473.931	146615		11.068		na	110.7
37	8:2FTS	39108-34-4	10.49	526.926 > 506.818	232	M4	0.366		na	76.3
38	M2-8:2FTS	INT STD	10.47	529.053 > 508.945	5826		12.468		na	124.7
39	PFNS	68259-12-1	10.51	548.989 > 80.249	326		0.354	1.36	YES	73.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
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Printed: Thursday, March 12, 2020 03:26:43 Eastern Daylight Time

ID: WG1348954-5,537ILOW
Name: I20457
Date: 11-Mar-2020
Time: 03:27:13
Description: WG1348954,WG1347969,ICAL16305,537ILOW
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.87	573.096 > 418.987	15729		10.426		na	104.3
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.88	570.053 > 418.917	1073		0.732	3.15	YES	146.3
43	NMeFOSAA	2355-31-9		570.053 > 418.917	1073		0.732		na	
44	PFUnA	2058-94-8	11.03	562.989 > 518.903	6898		0.517	12.00	NO	103.5
45	M7-PFUDA	INT STD	11.03	570.053 > 524.923	139395		11.861		na	118.6
46	PFDS	335-77-3	11.04	598.926 > 80.314	320		0.487	1.56	NO	100.9
47	FOSA	754-91-6	10.93	497.989 > 78.245	1213		0.425		YES	85.1
48	M8FOSA	INT STD	10.93	506.053 > 78.286	26823		8.564		na	85.6
49	d5-NEtFOSAA	INT STD	11.16	589.117 > 418.929	12034		9.030		na	90.3
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.16	583.989 > 418.927	582	M4	0.512	2.86	NO	102.5
52	NEtFOSAA	2991-50-6		583.989 > 418.927	582		0.512		na	
53	PFDoA	307-55-1	11.51	612.989 > 568.967	5977		0.528	18.74	NO	105.6
54	MPFDOA	INT STD	11.51	614.989 > 569.92	133591		10.132		na	101.3
55	PFTrDA	72629-94-8	11.92	663.053 > 618.969	5256	M4	0.577	10.42	NO	115.5
56	PFTA	376-06-7	12.28	713.053 > 668.976	4577	M4	0.527	12.20	NO	105.4
57	M2PFTEDA	INT STD	12.28	715.053 > 669.945	108450		10.356		na	103.6
58	M3HFPO-DA	INT STD	7.35	331.989 > 286.995	4252		73.651		na	36.8
59	HFPO-DA	13252-13-6	7.35	284.819 > 169.094	281		7.973	2.55	YES	79.7
60	ADONA	958445-44-8	8.34	376.926 > 251.005	8531		0.440		na	93.0
61	PFHxDA		12.74	813.053 > 769.005	4812		0.960		na	191.9
62	PFODA		12.98	912.989 > 869.032	3022		0.822		na	164.5
63	M2PFHxDA		12.74	815.372 > 770.158	13645		6.121		na	61.2
64	PFDoS		11.91	698.649 > 79.853	359		0.535	1.73	YES	107.1
65	10:2FTS		11.52	626.862 > 606.896	230	M2	0.378		na	78.4
66	9CL-PF3ONS		10.25	530.862 > 350.843	3111		0.478		na	102.6
67	11CL-PFOUdS		11.30	630.862 > 450.854	2635		0.481		na	102.0

all concentration units in (ng/mL)

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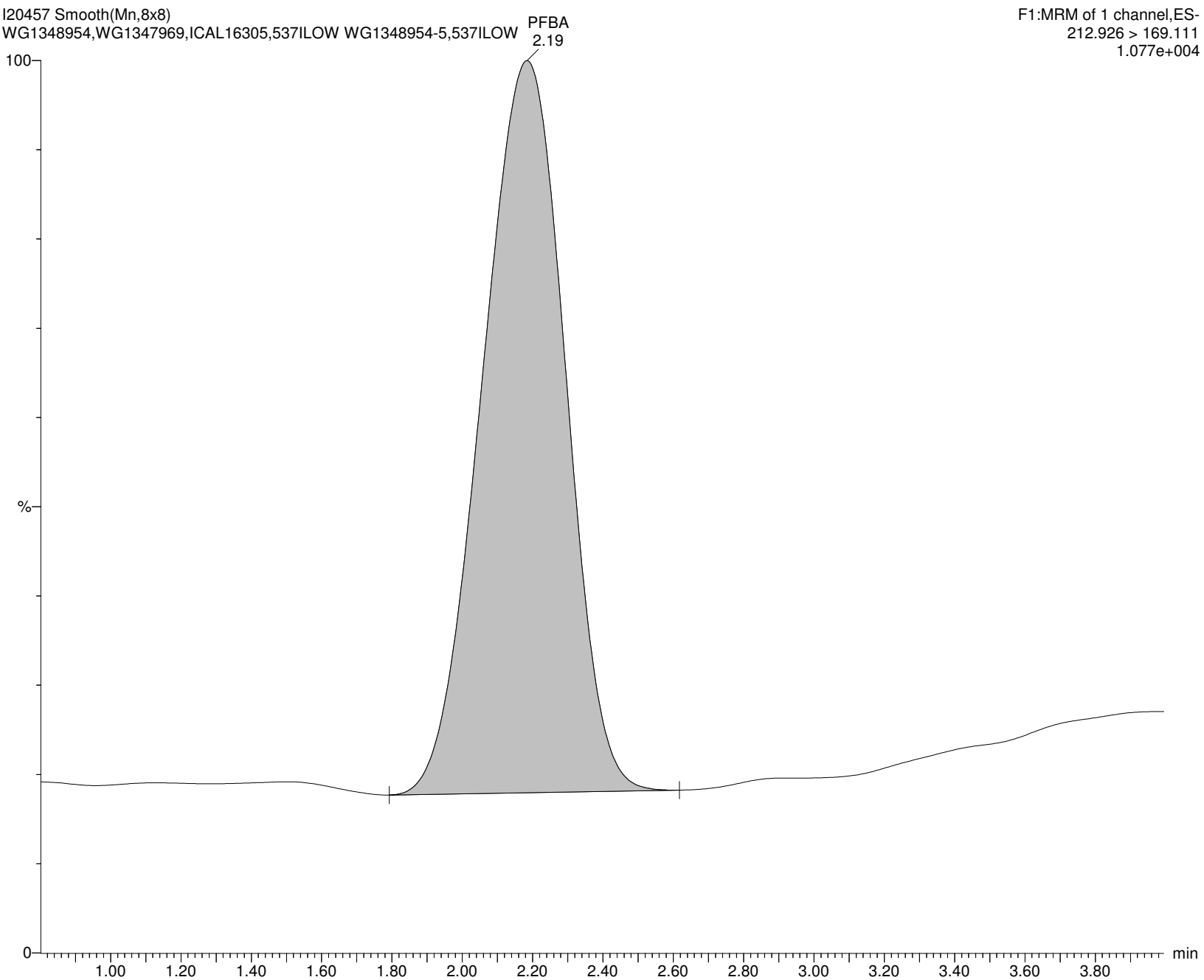

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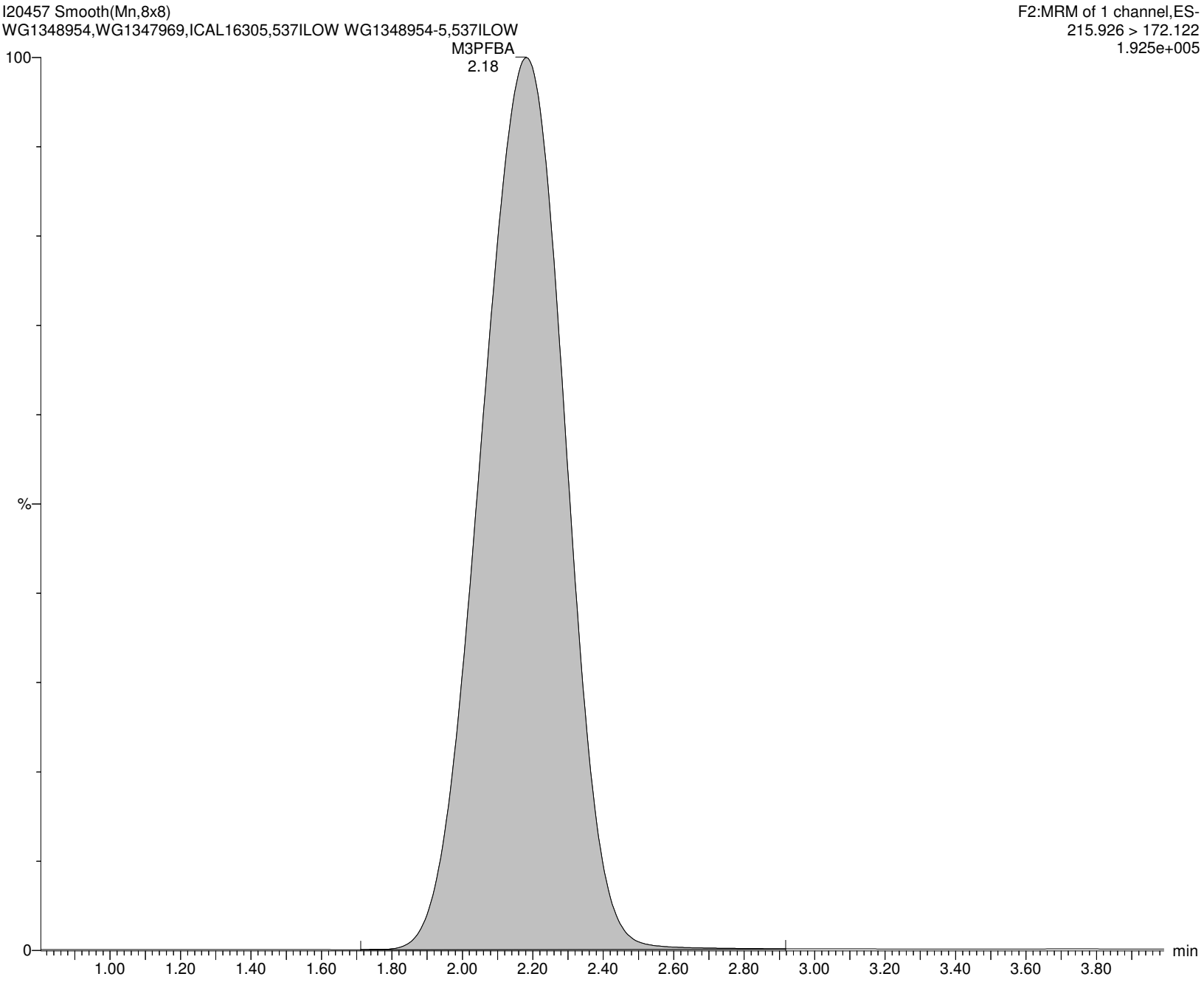

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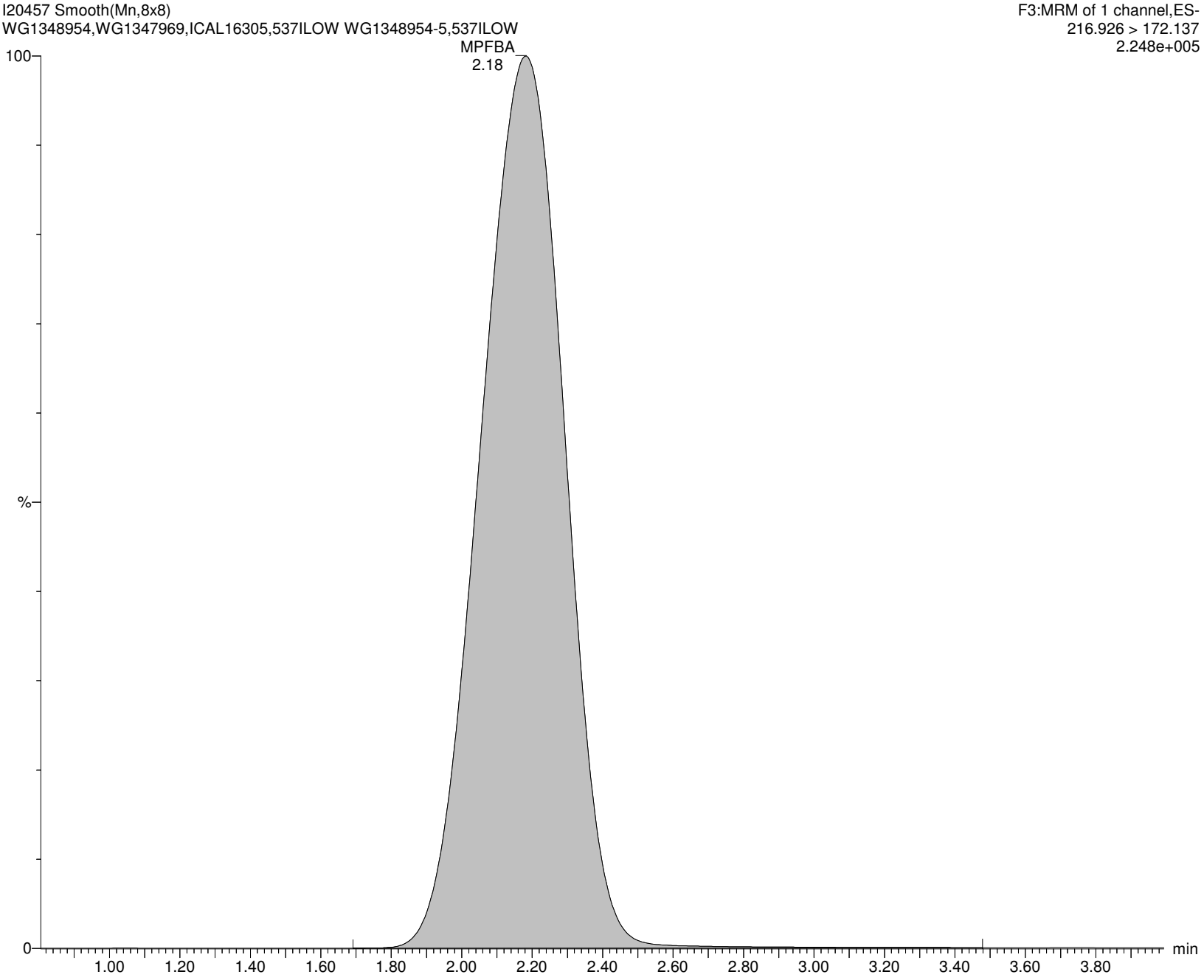
MPFBA



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ID: WG1348954-5,537ILOW
Date: 11-Mar-2020
Time: 03:27:13
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User: LCMS02:RS
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Instrument: XEVO-TQSmicro#QEB0050
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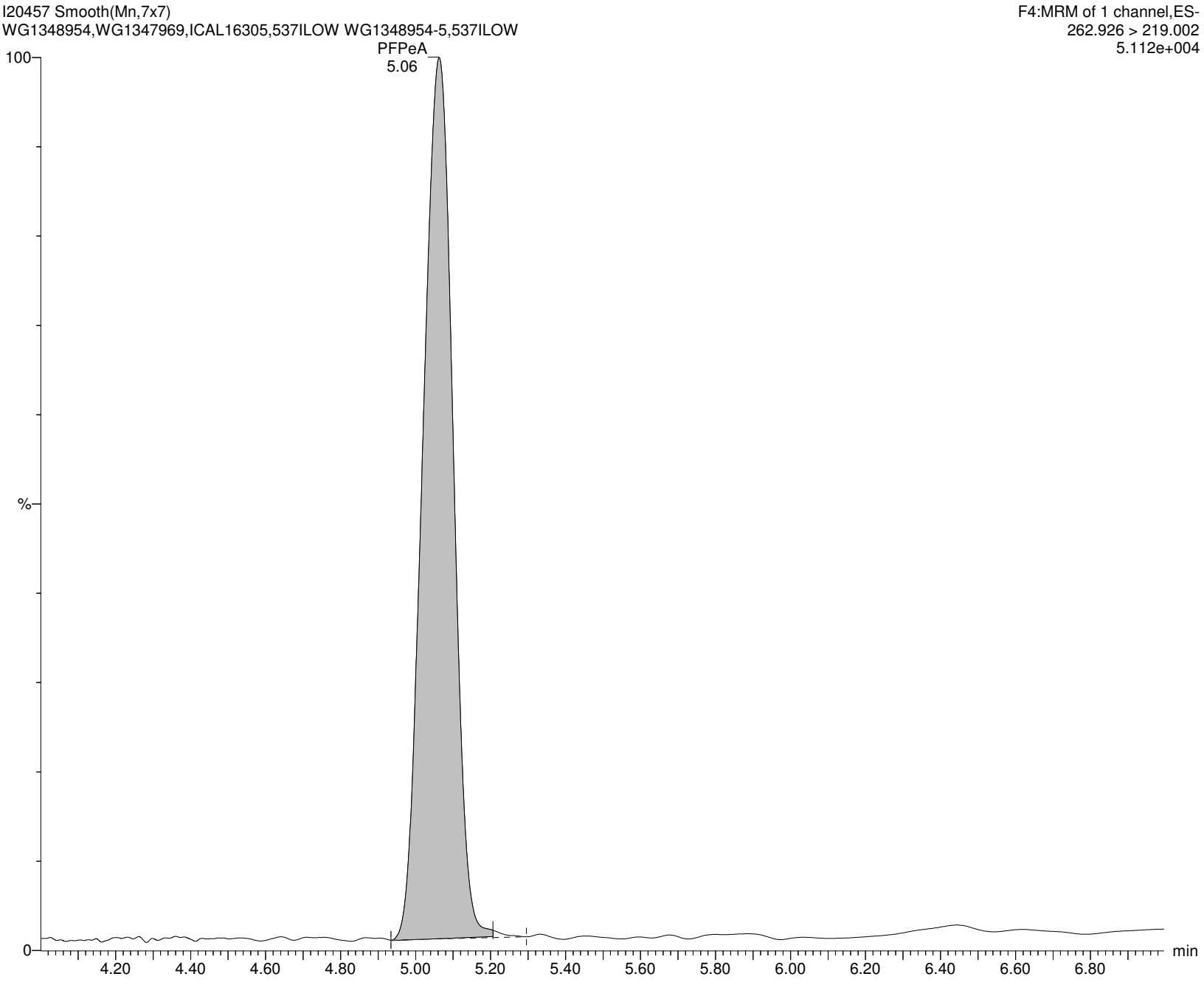

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
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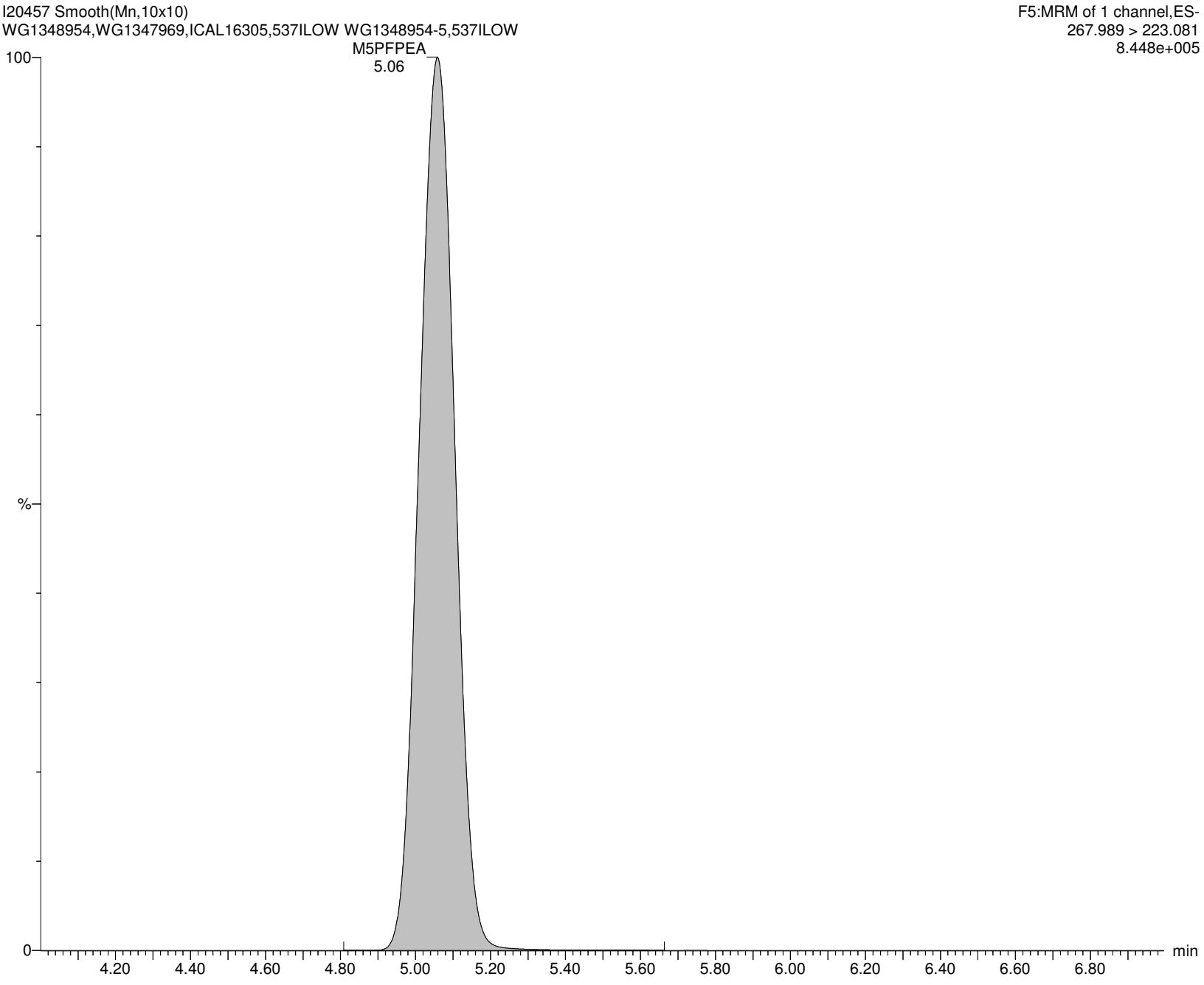

all concentration units in (ng/mL)

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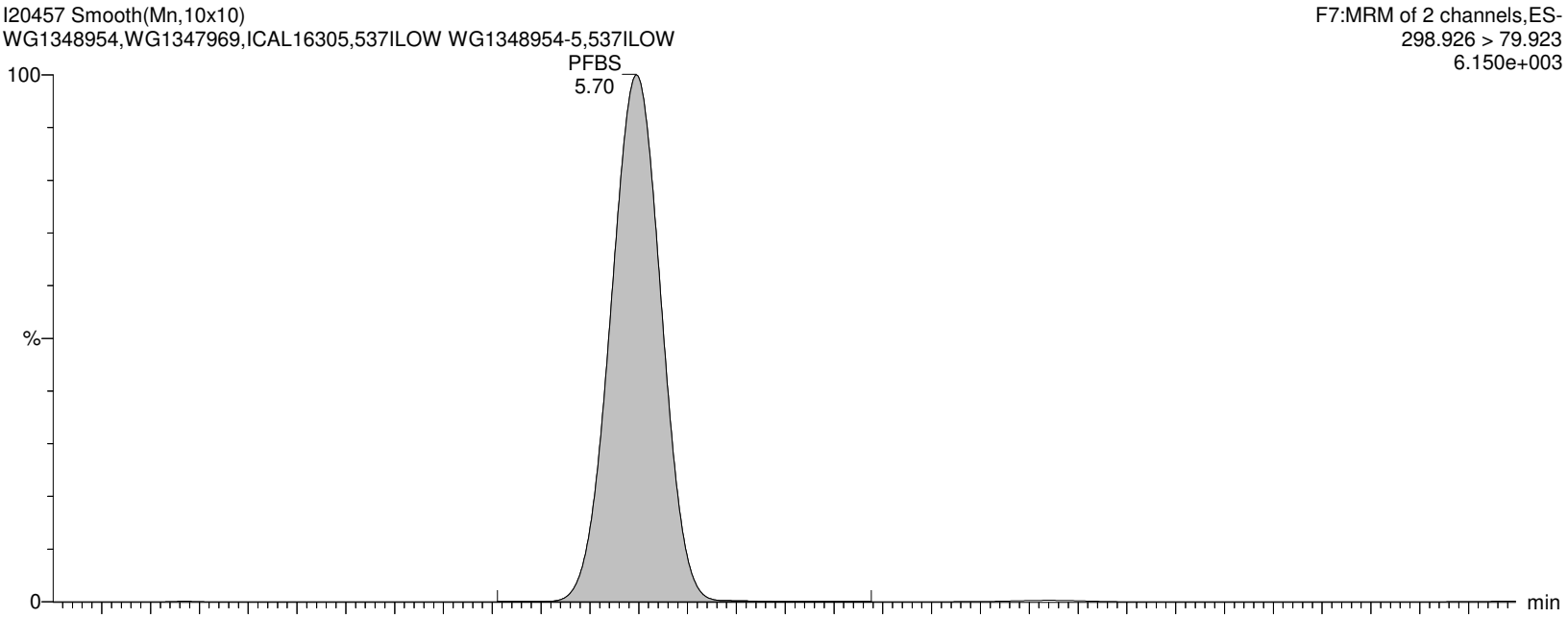

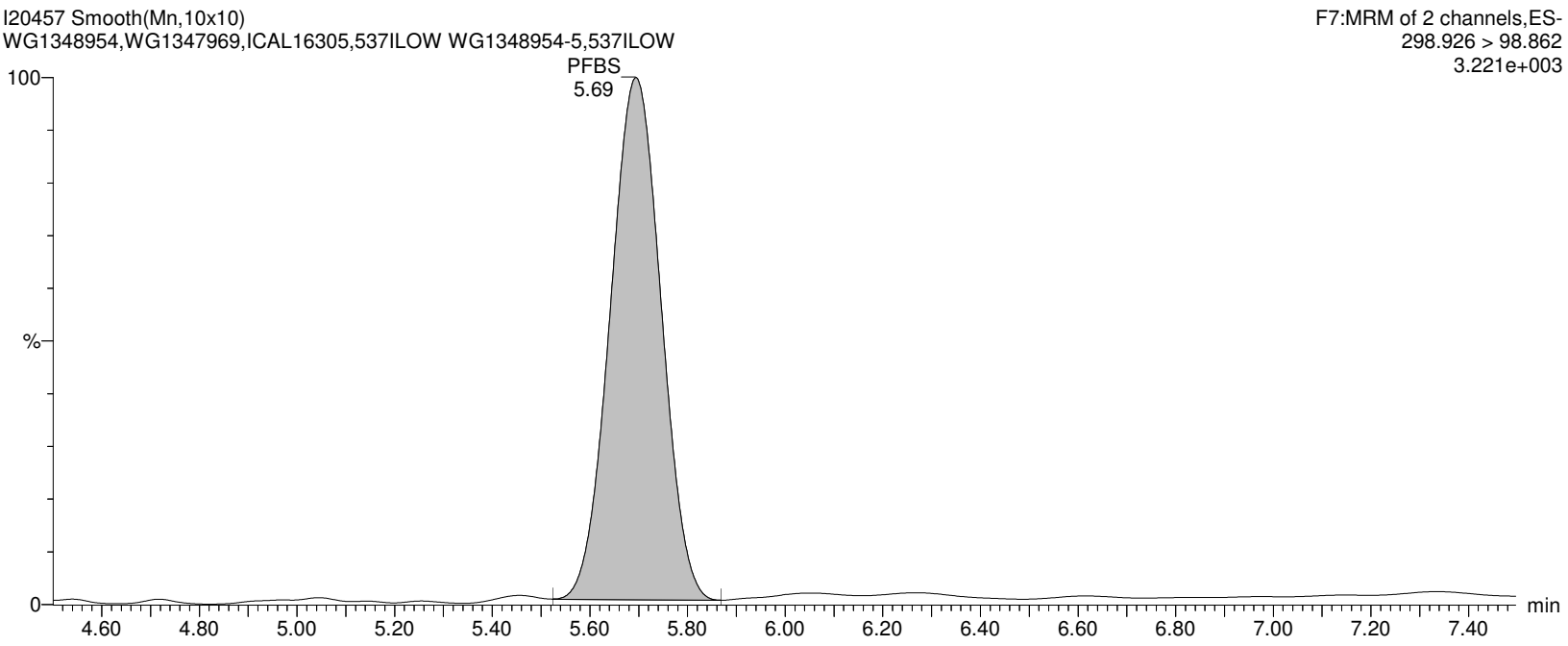

all concentration units in (ng/mL)

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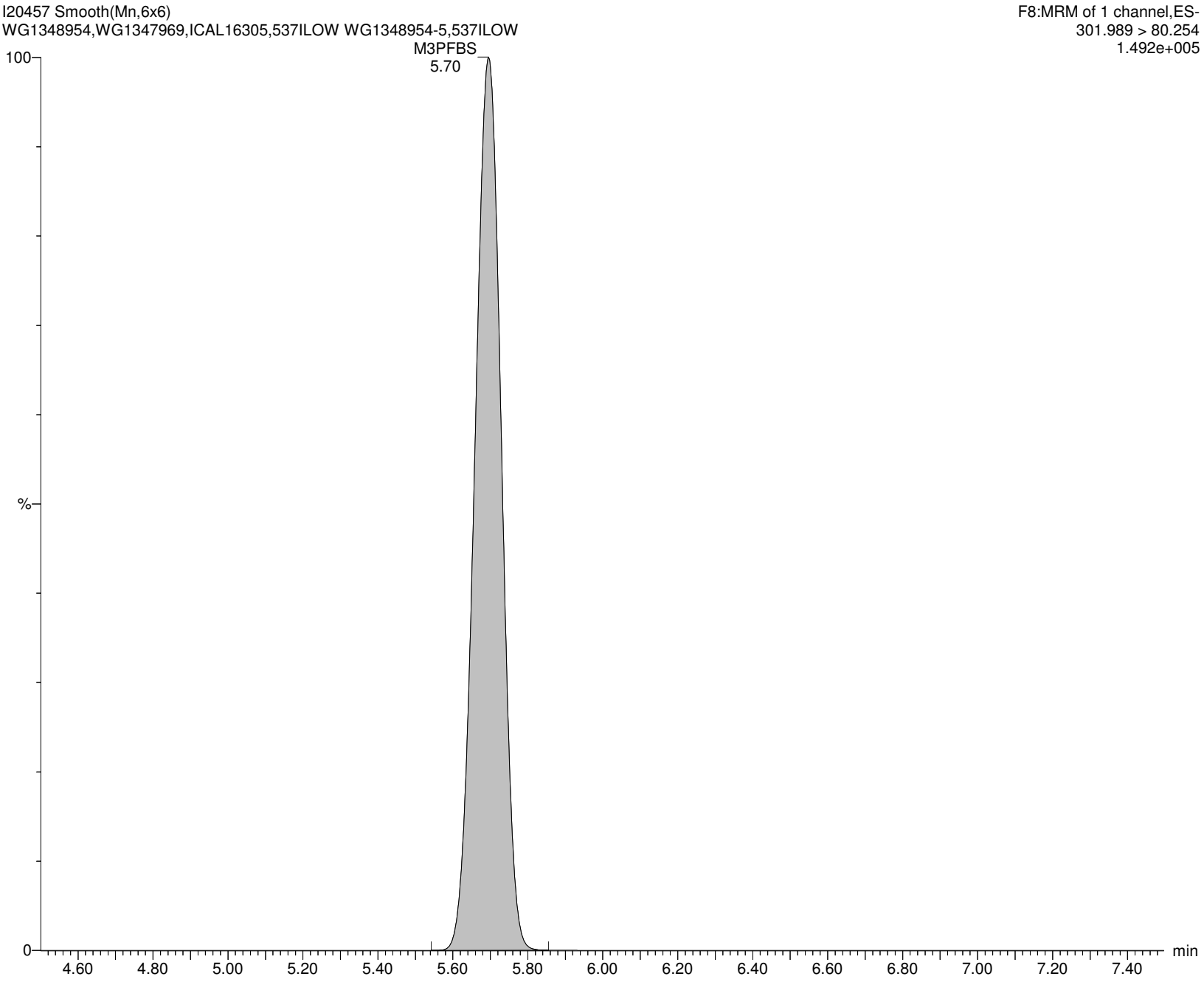

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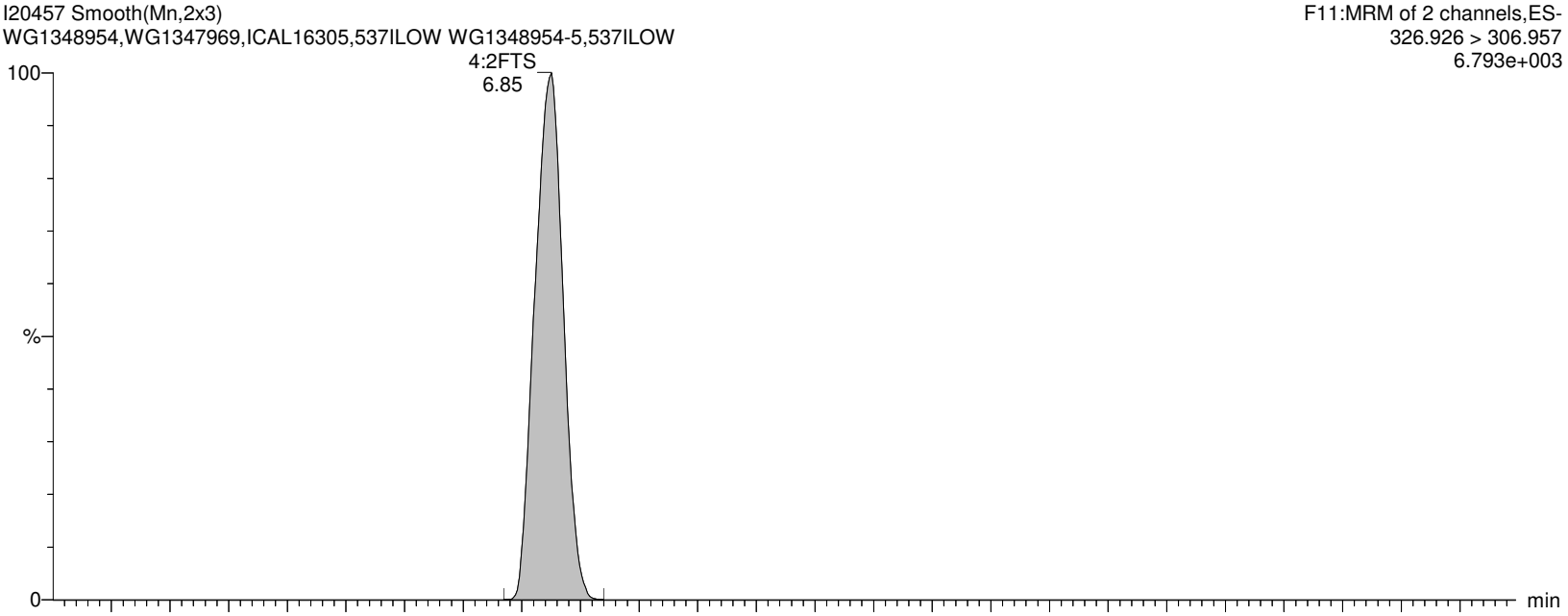

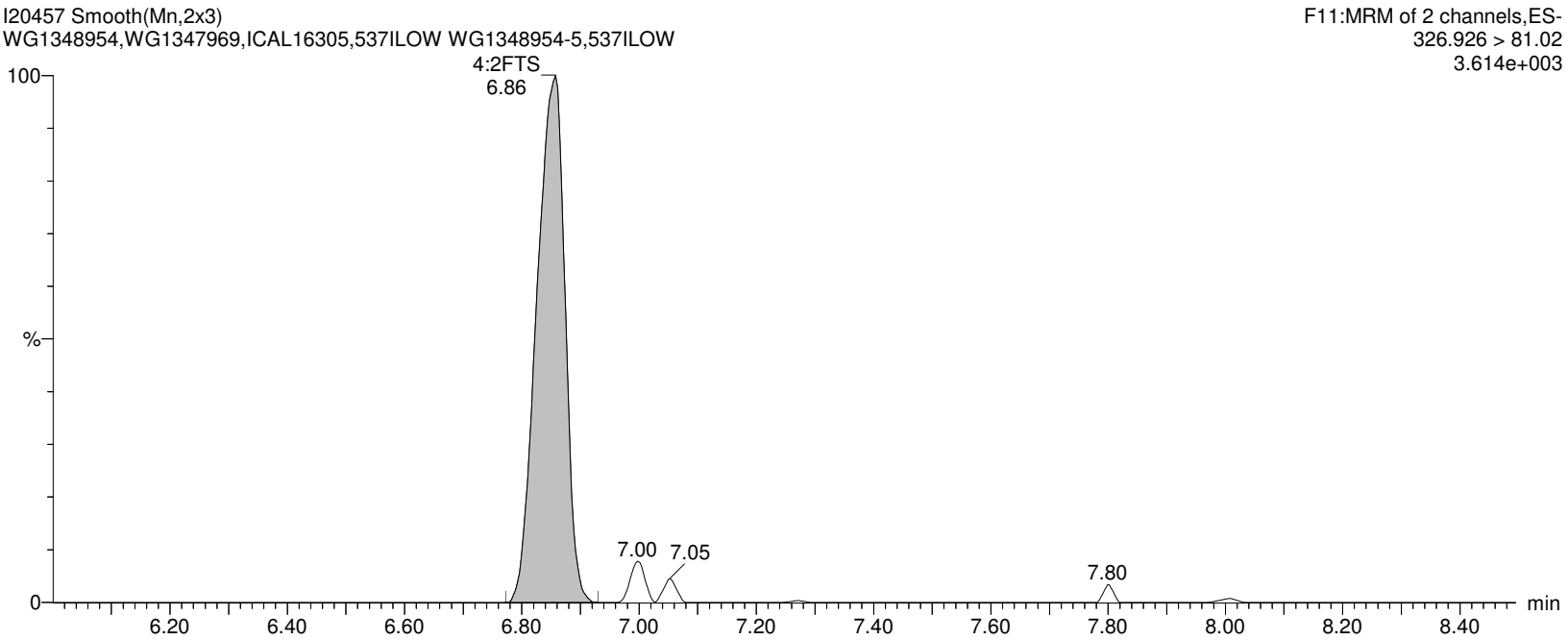

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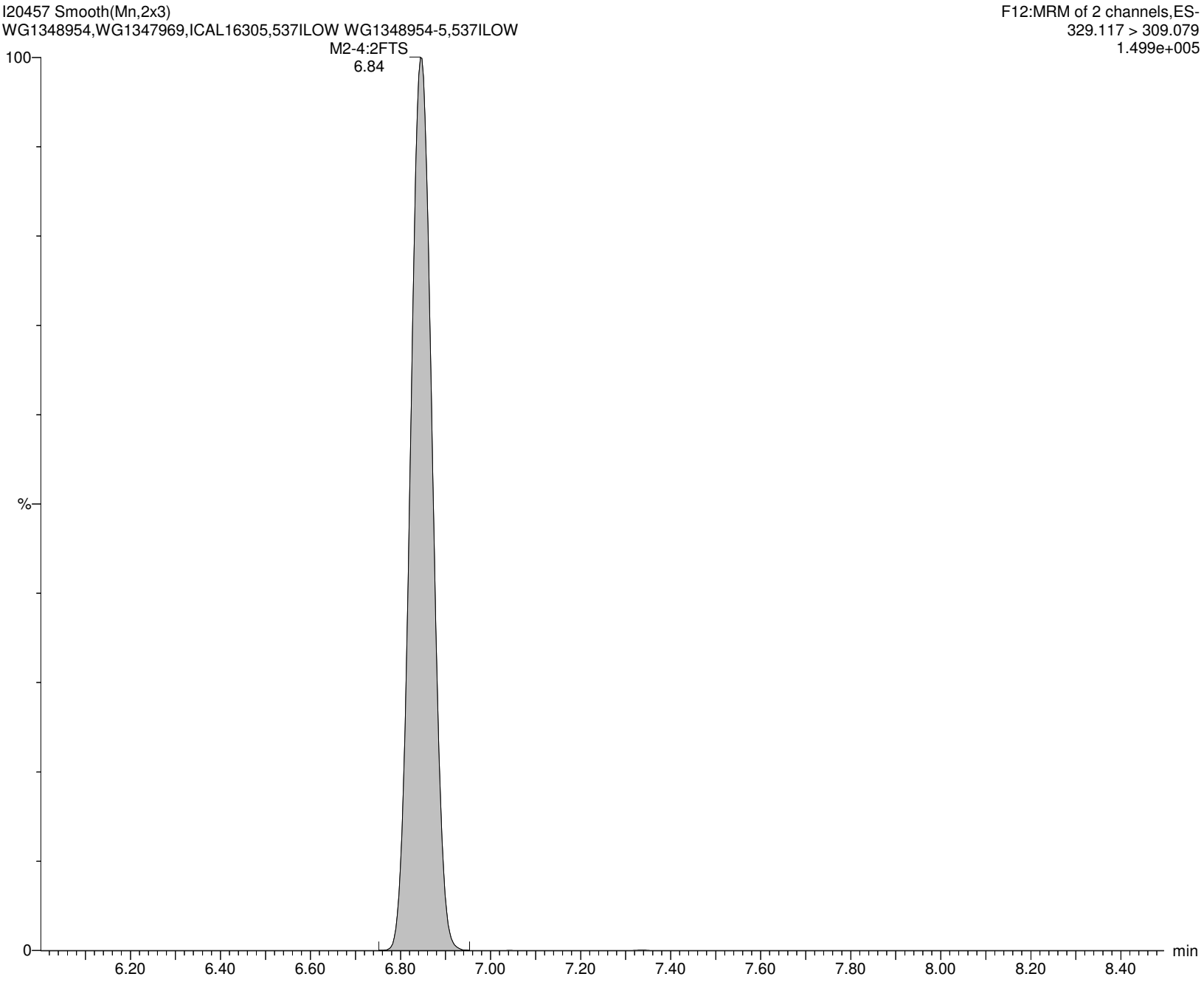

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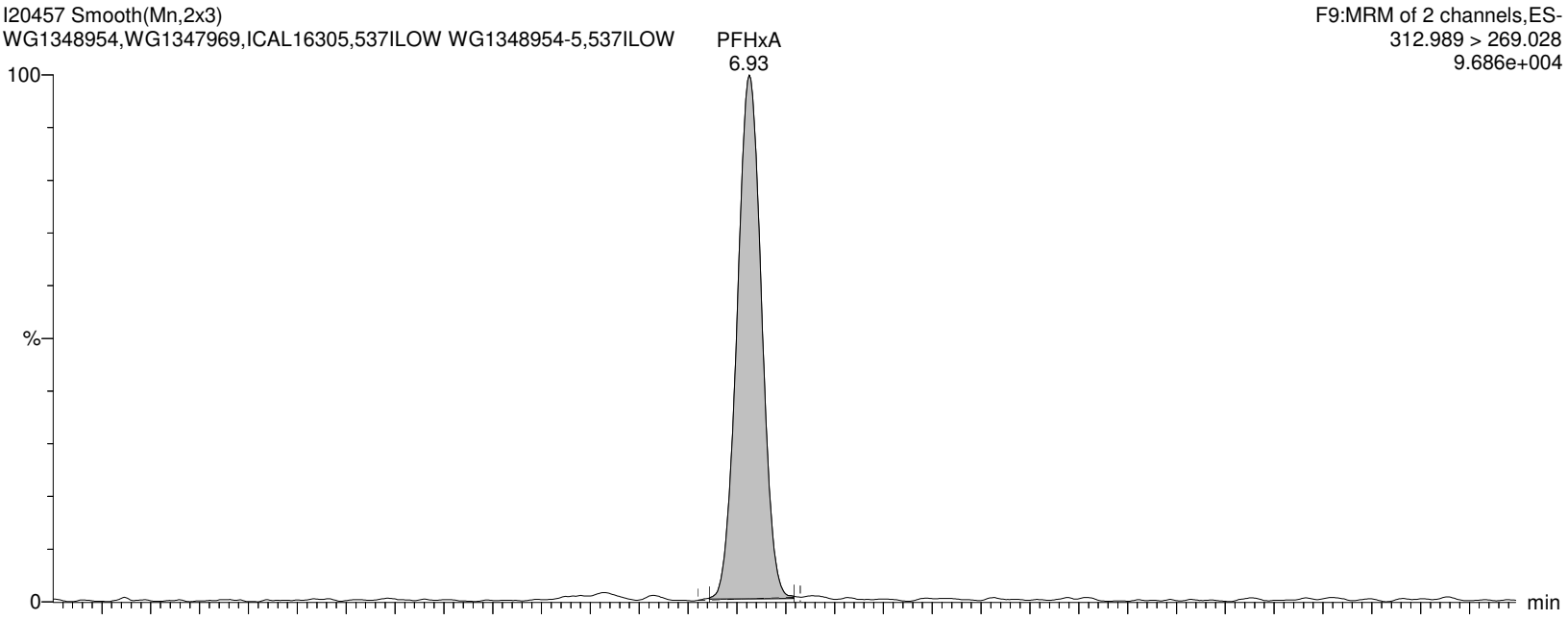

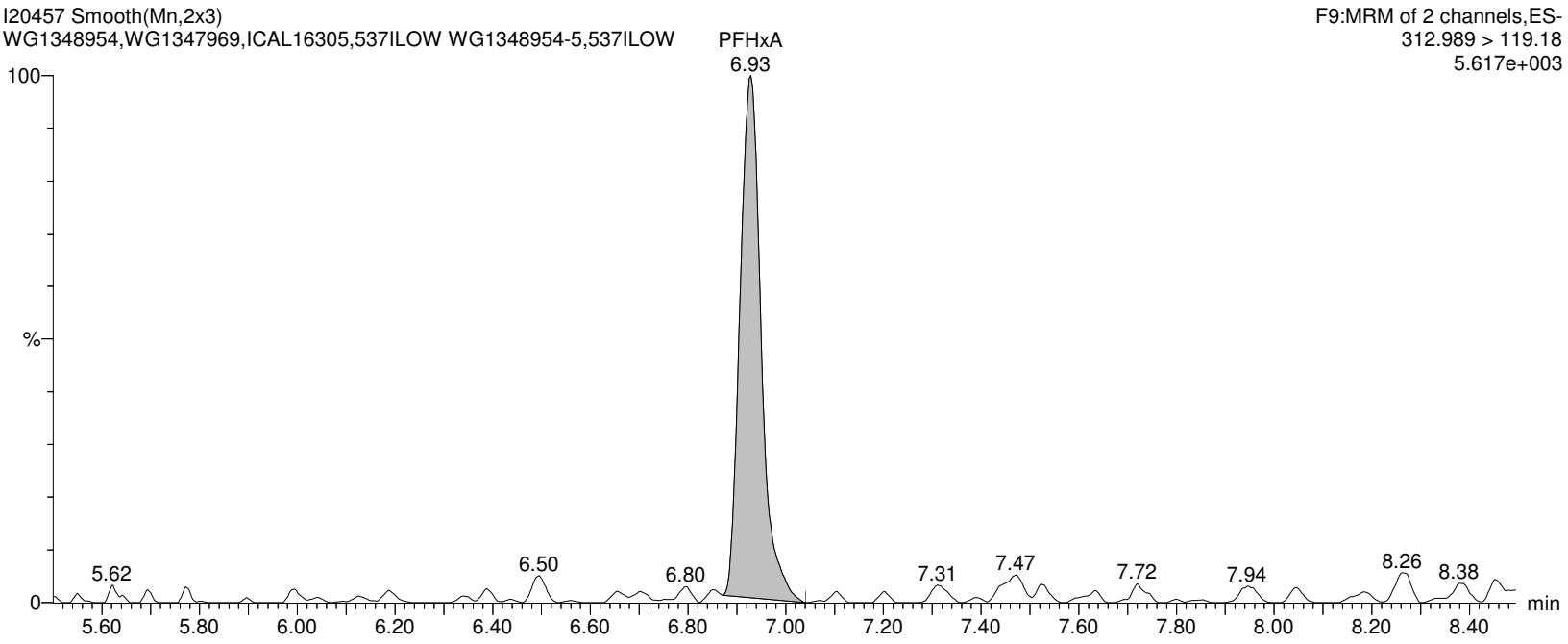

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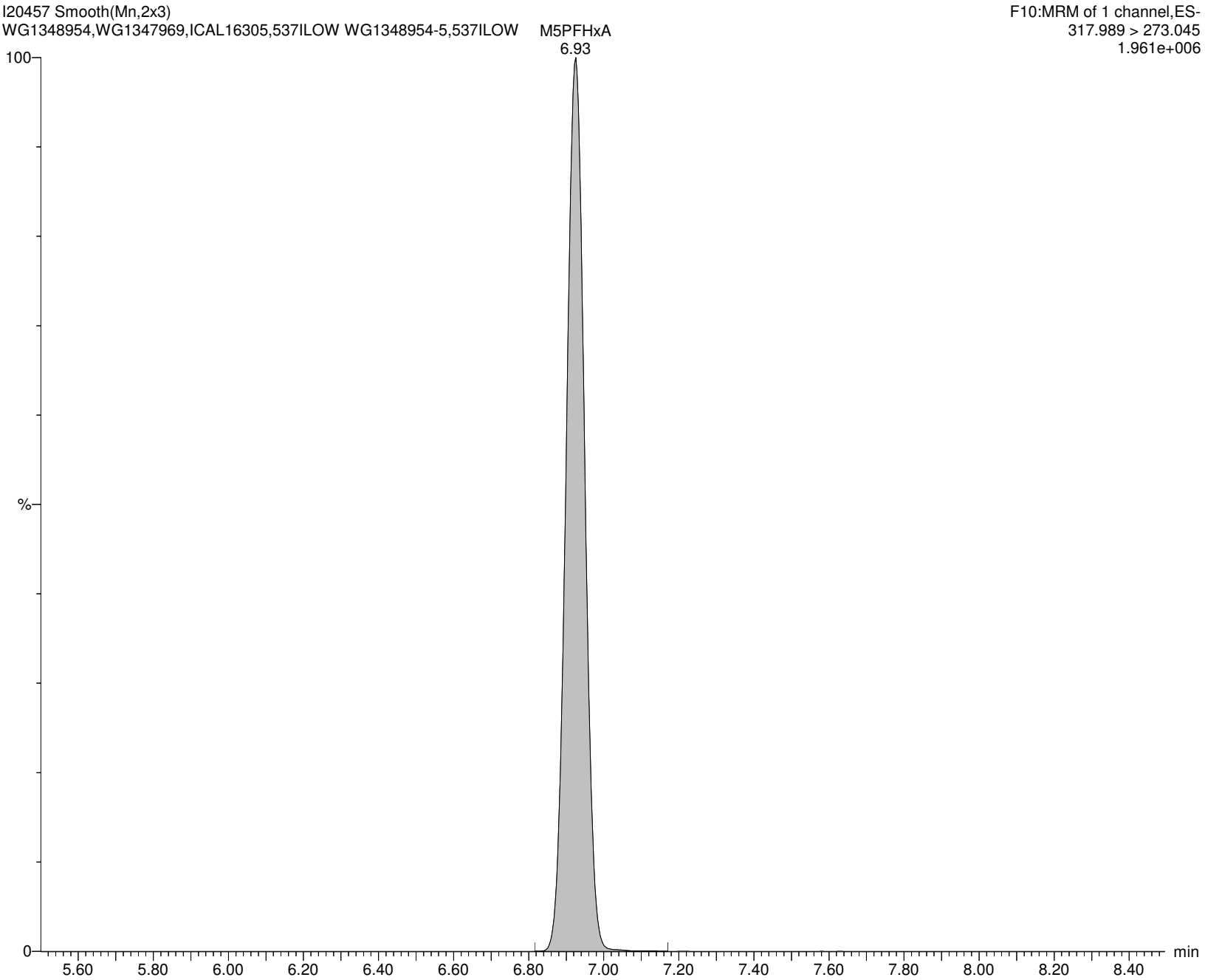

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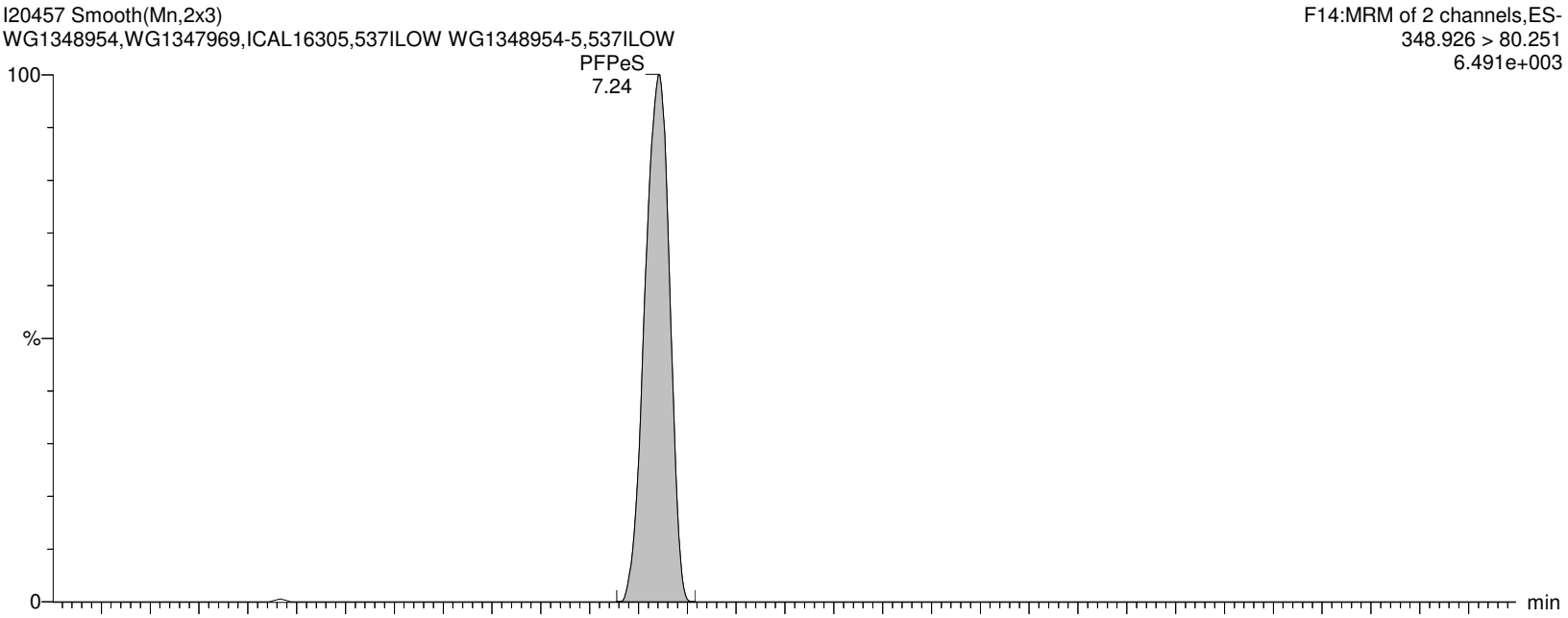

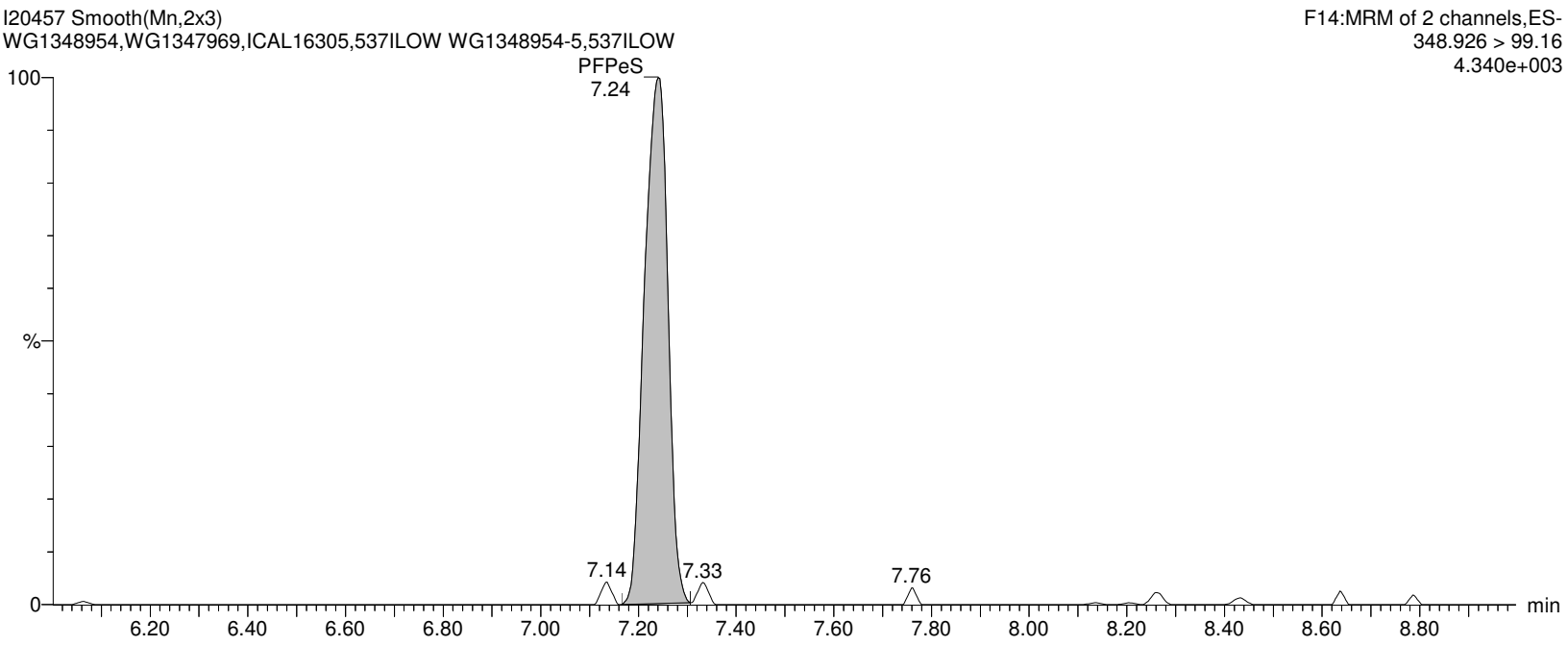

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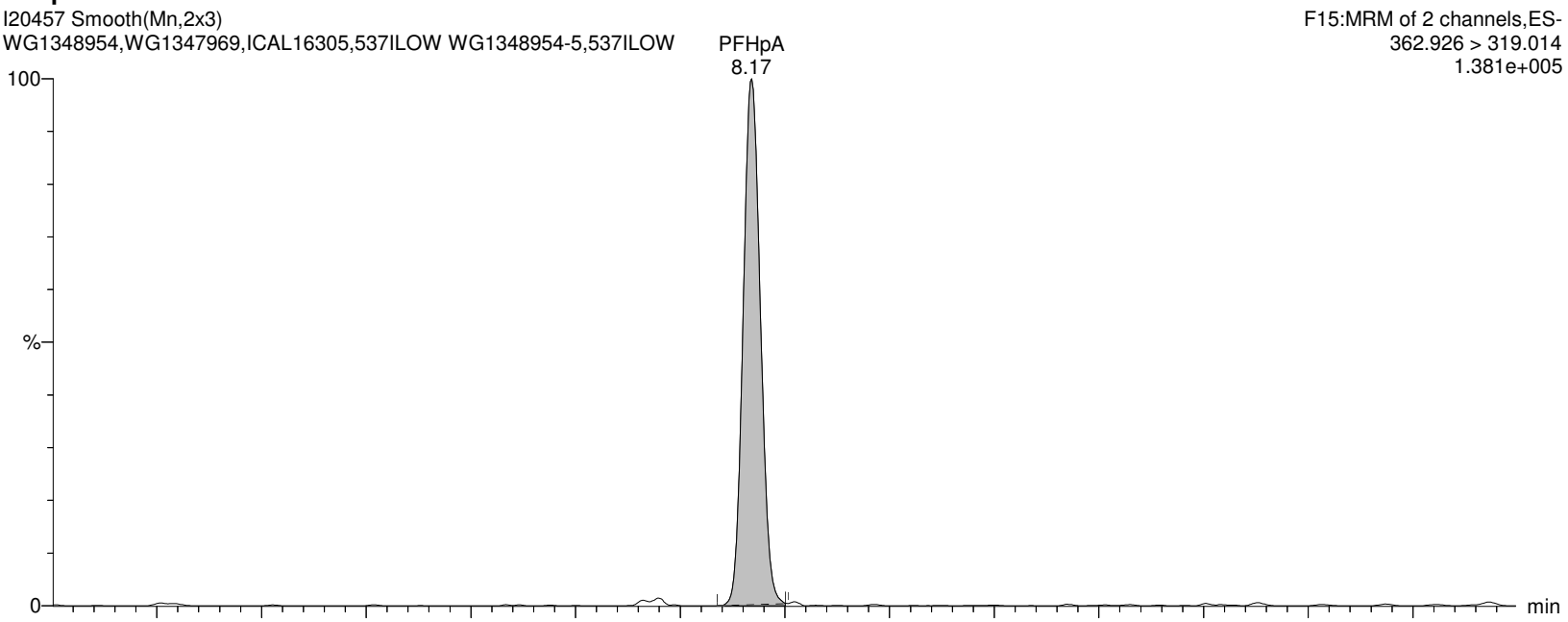

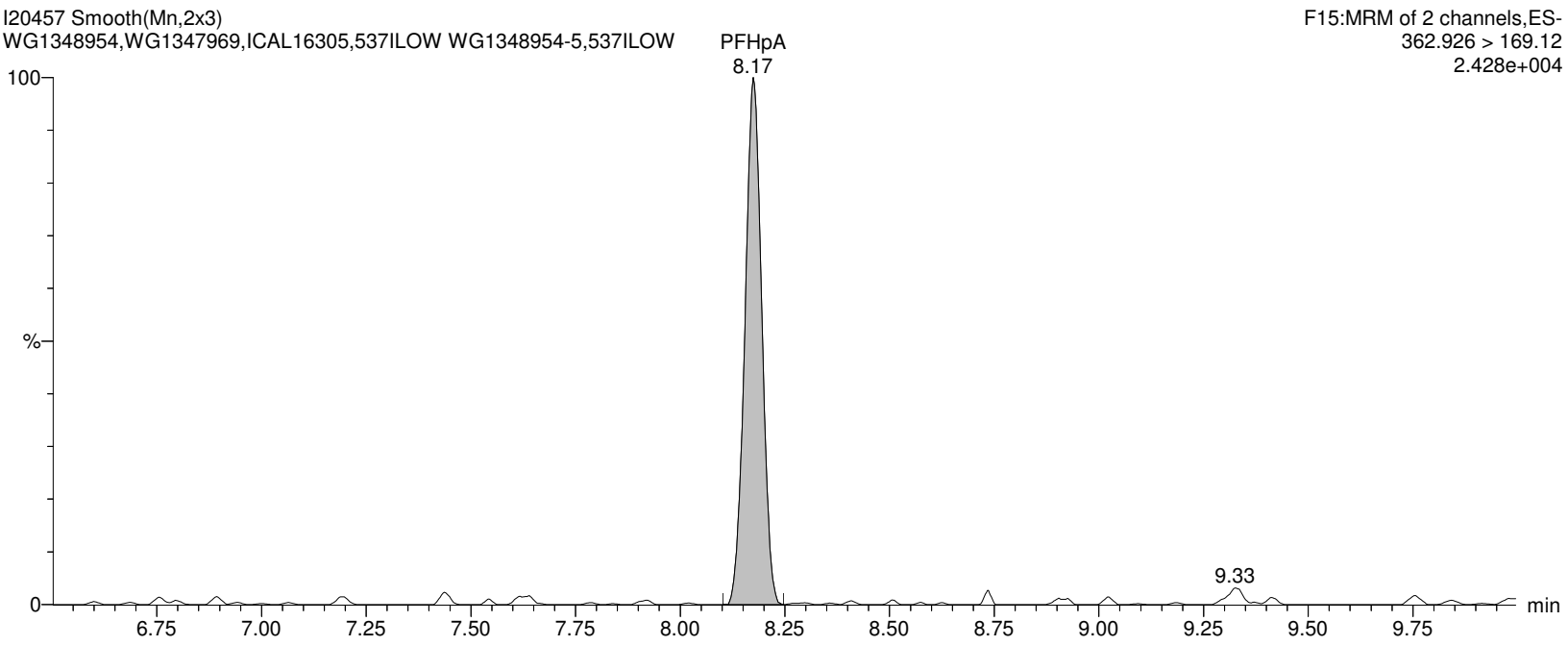

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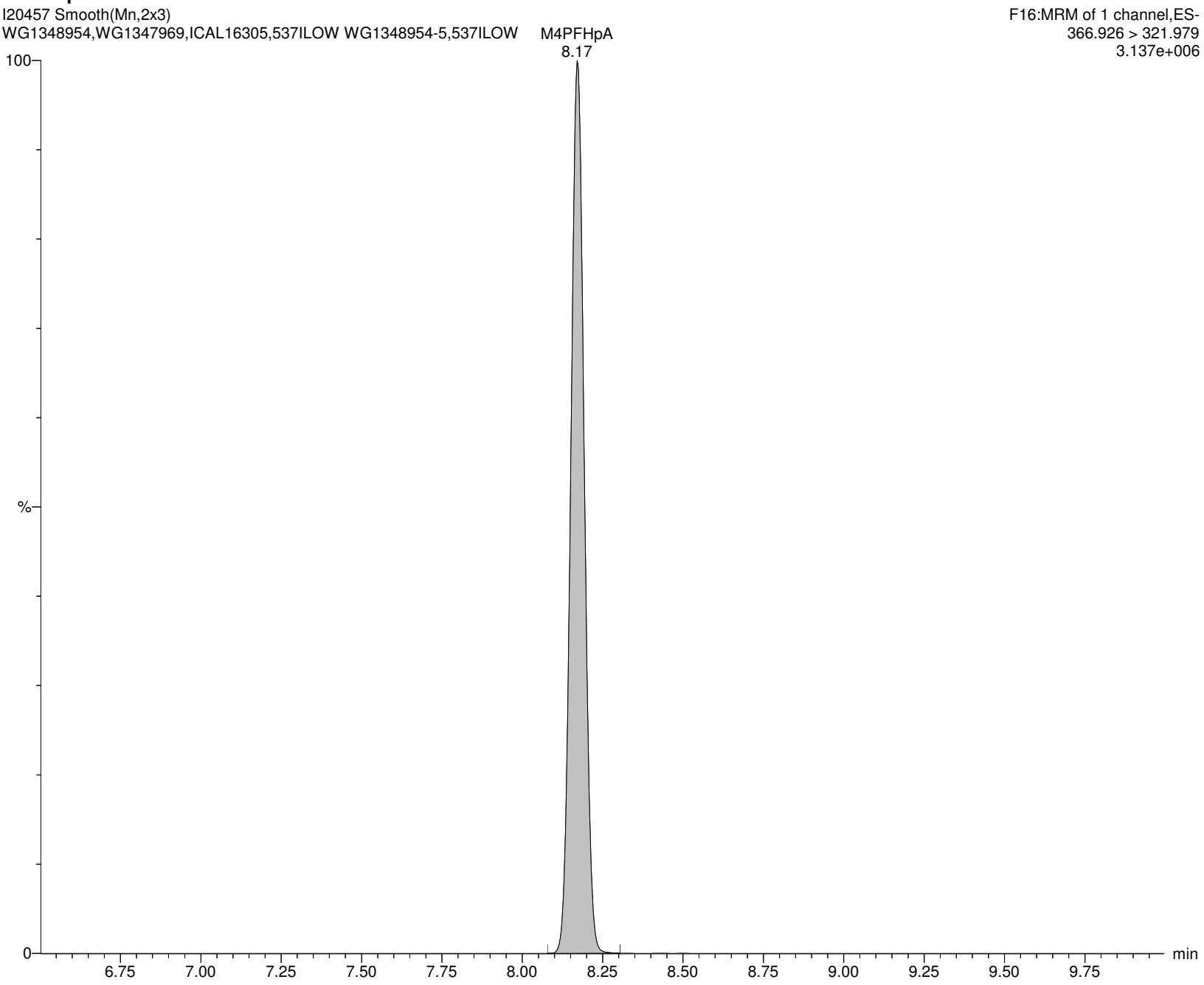

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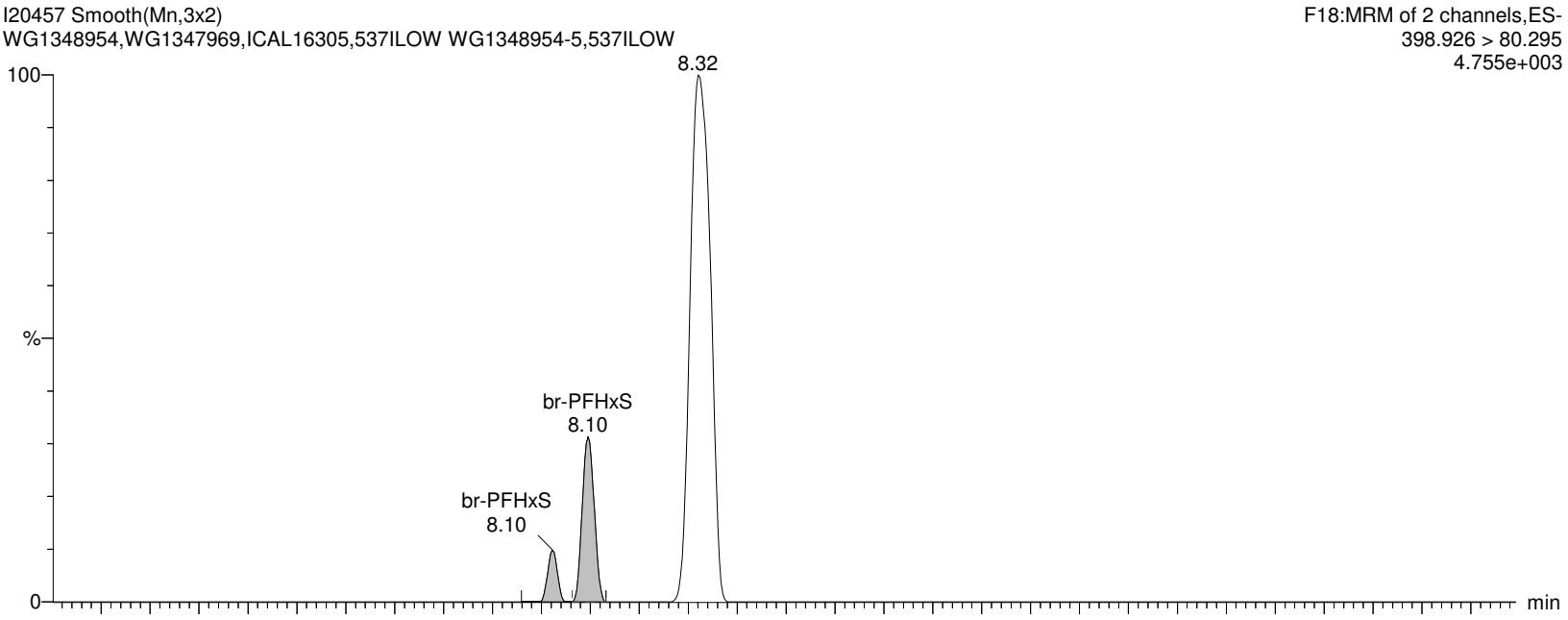

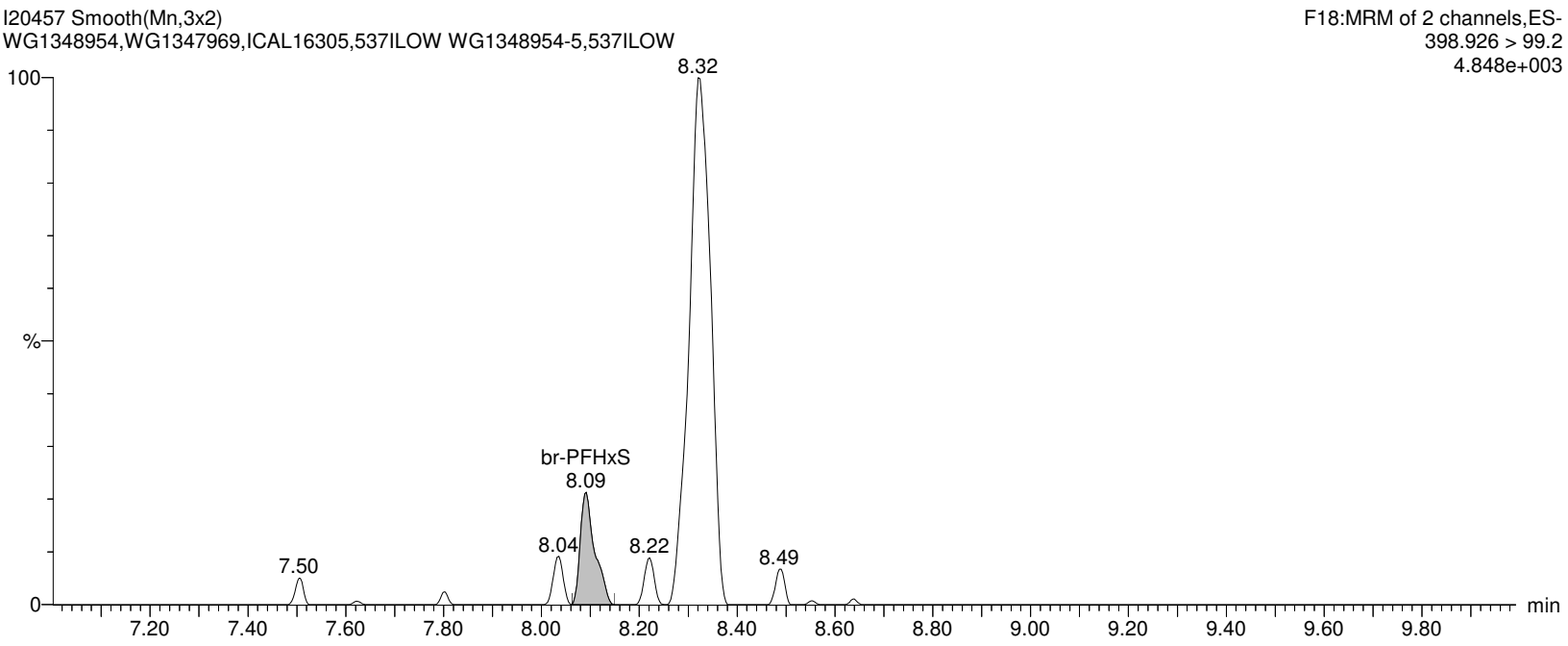

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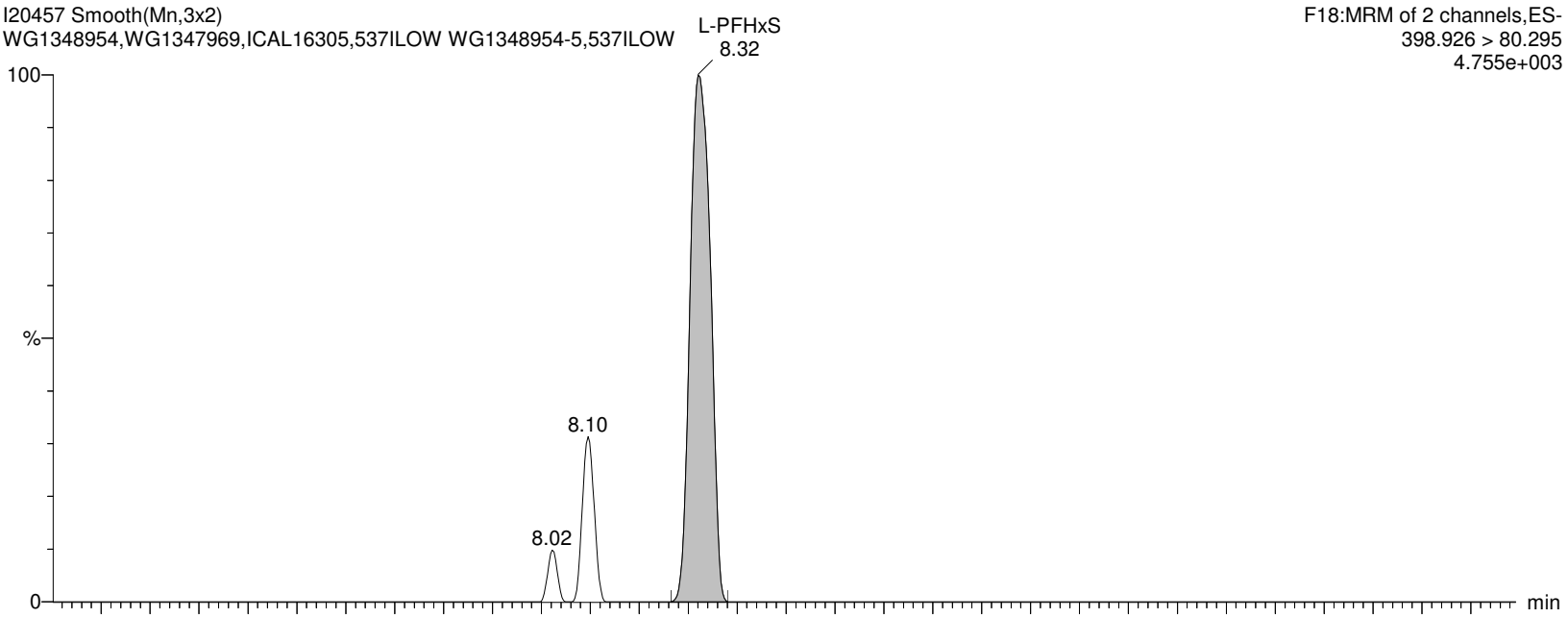

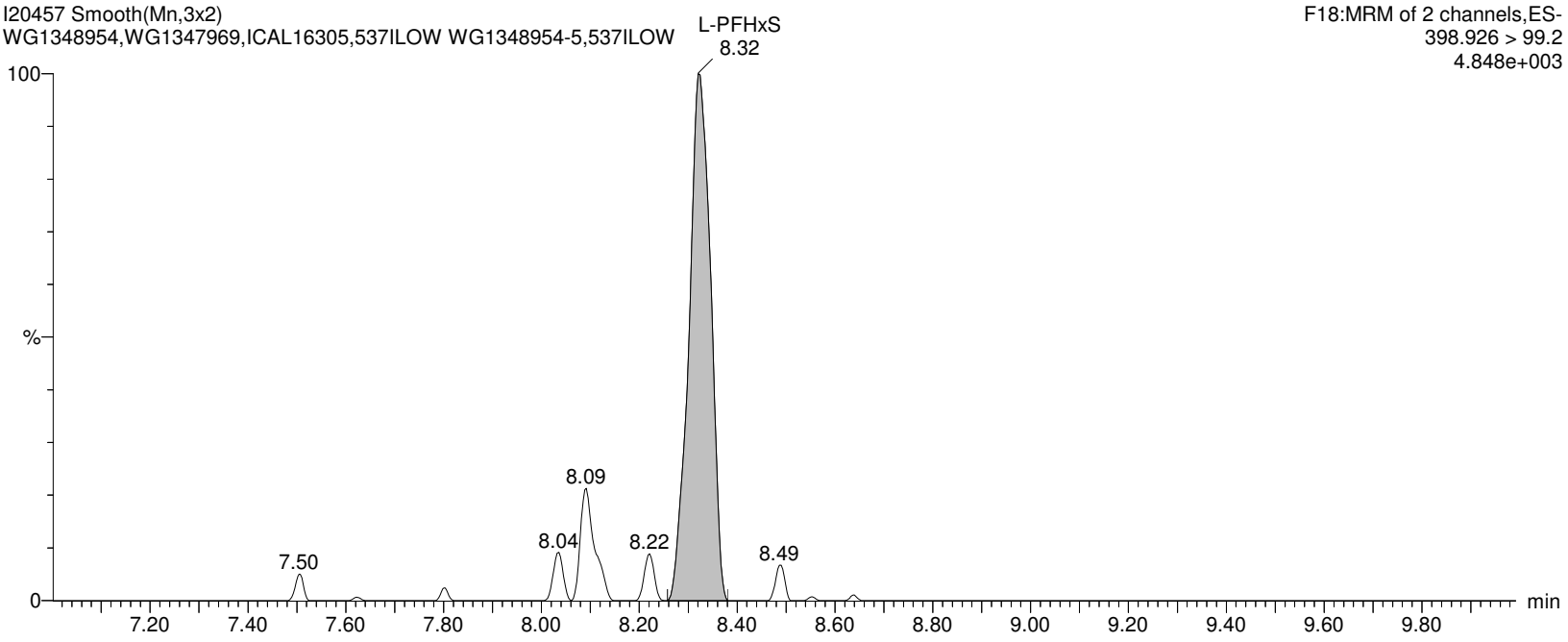

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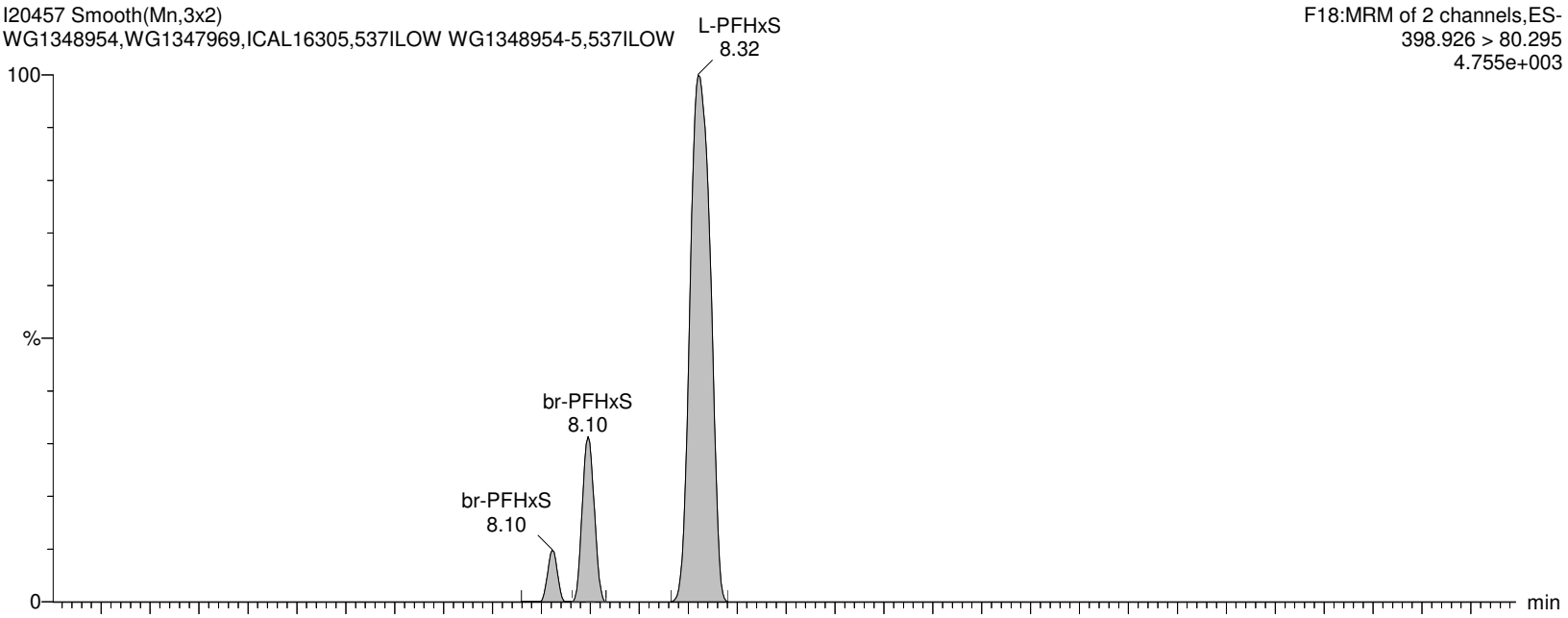

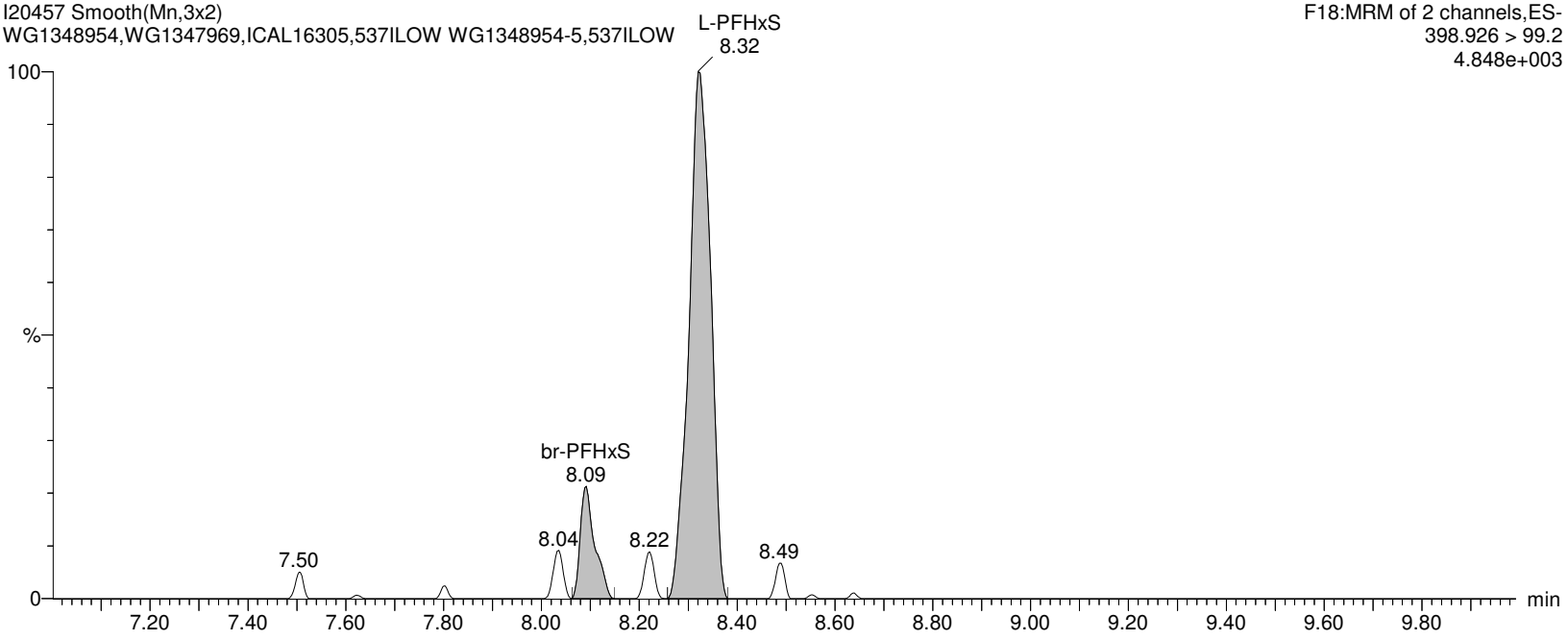

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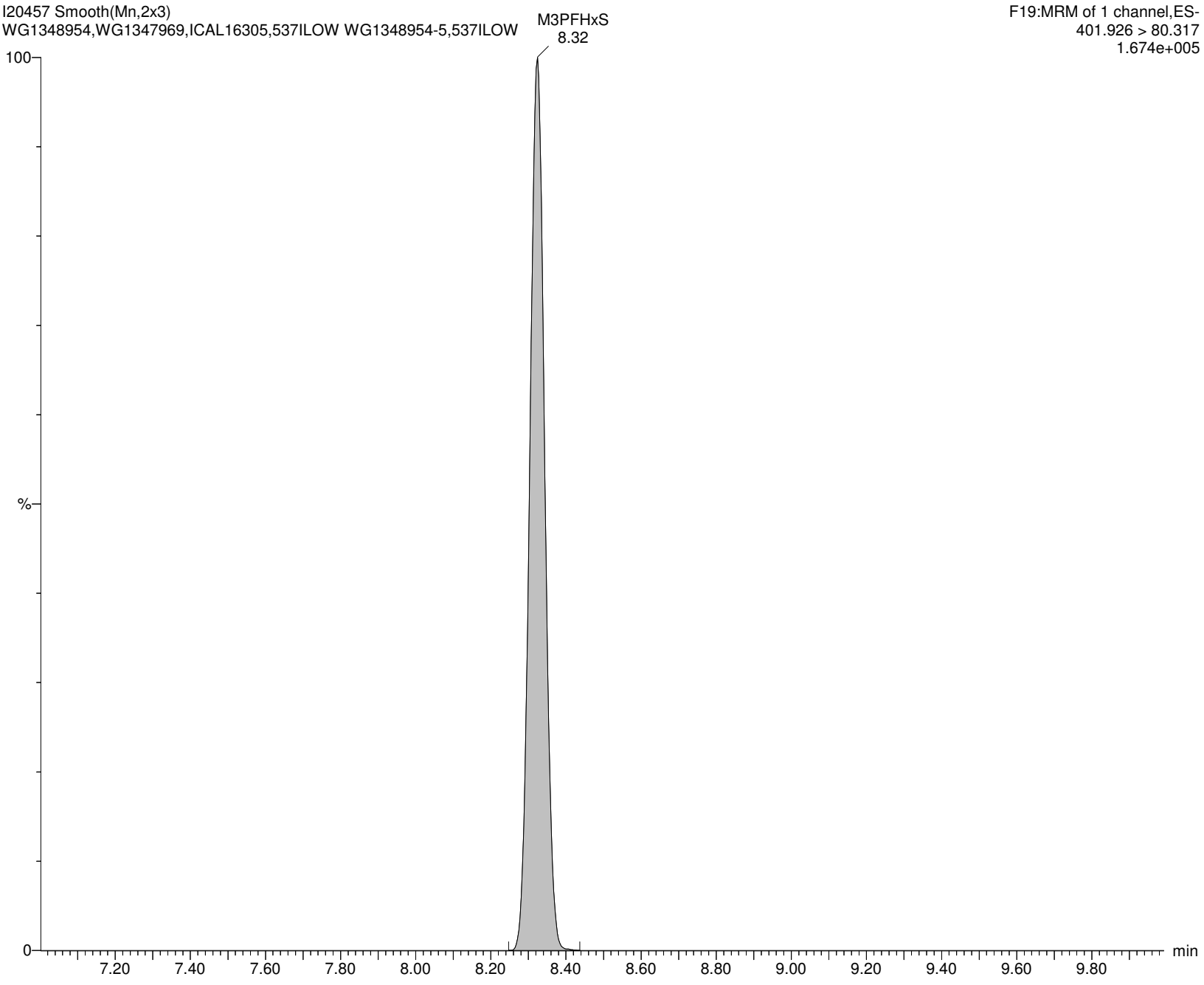

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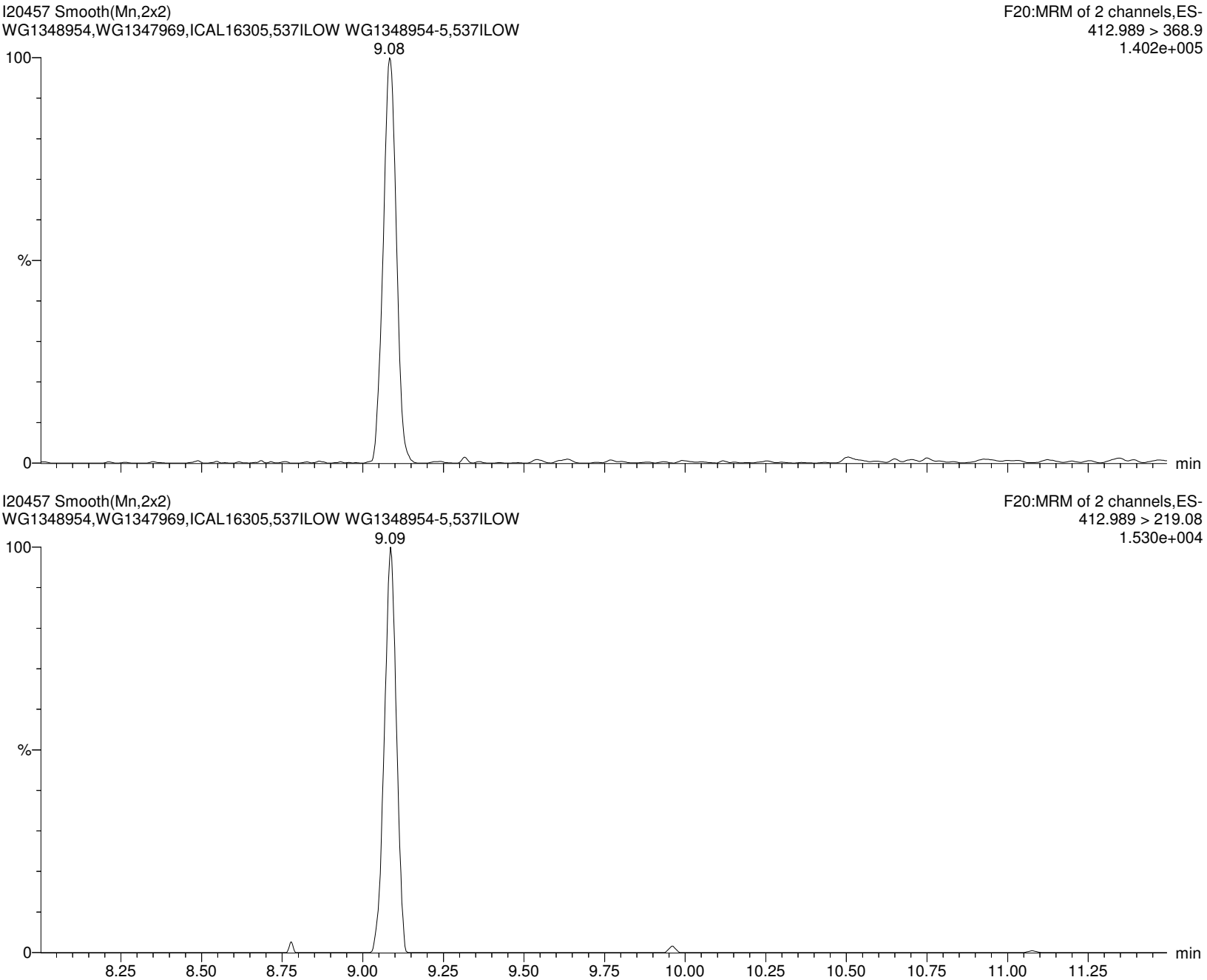

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:43 Eastern Daylight Time

Name: I20457
ID: WG1348954-5,537ILOW
Date: 11-Mar-2020
Time: 03:27:13
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
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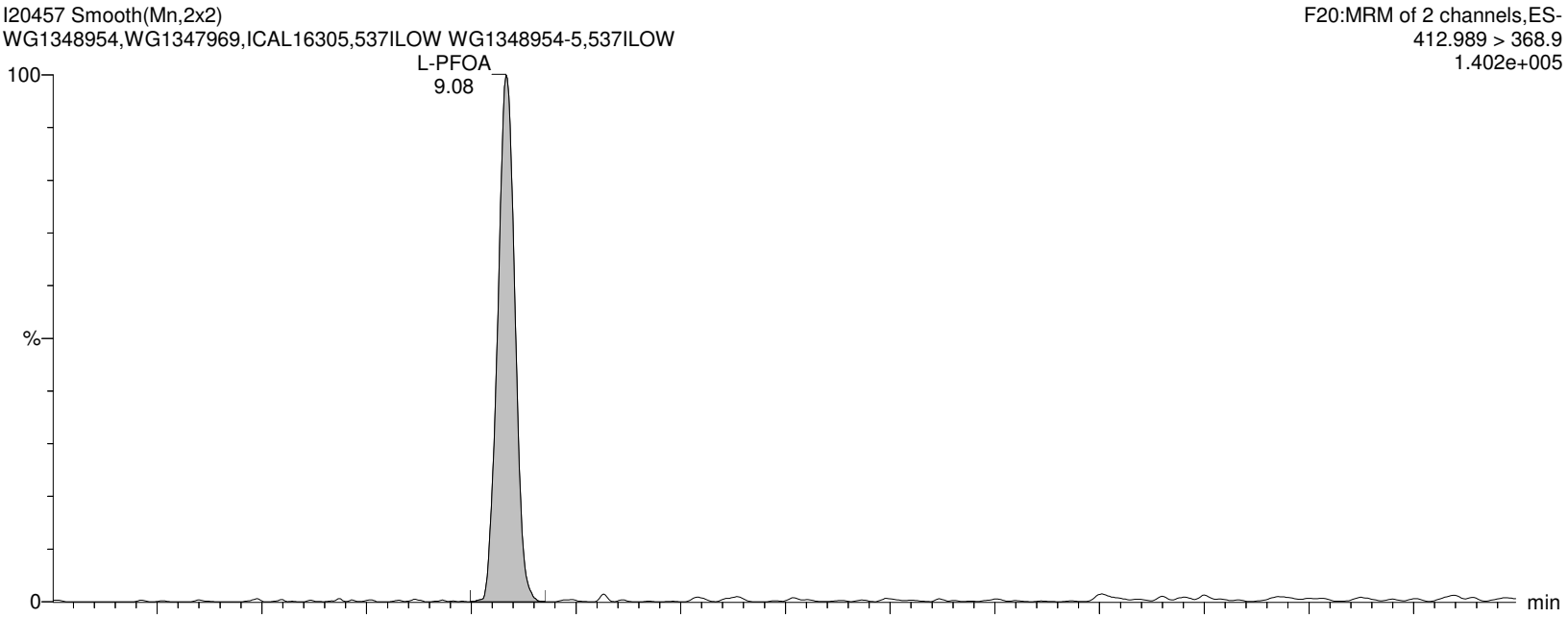

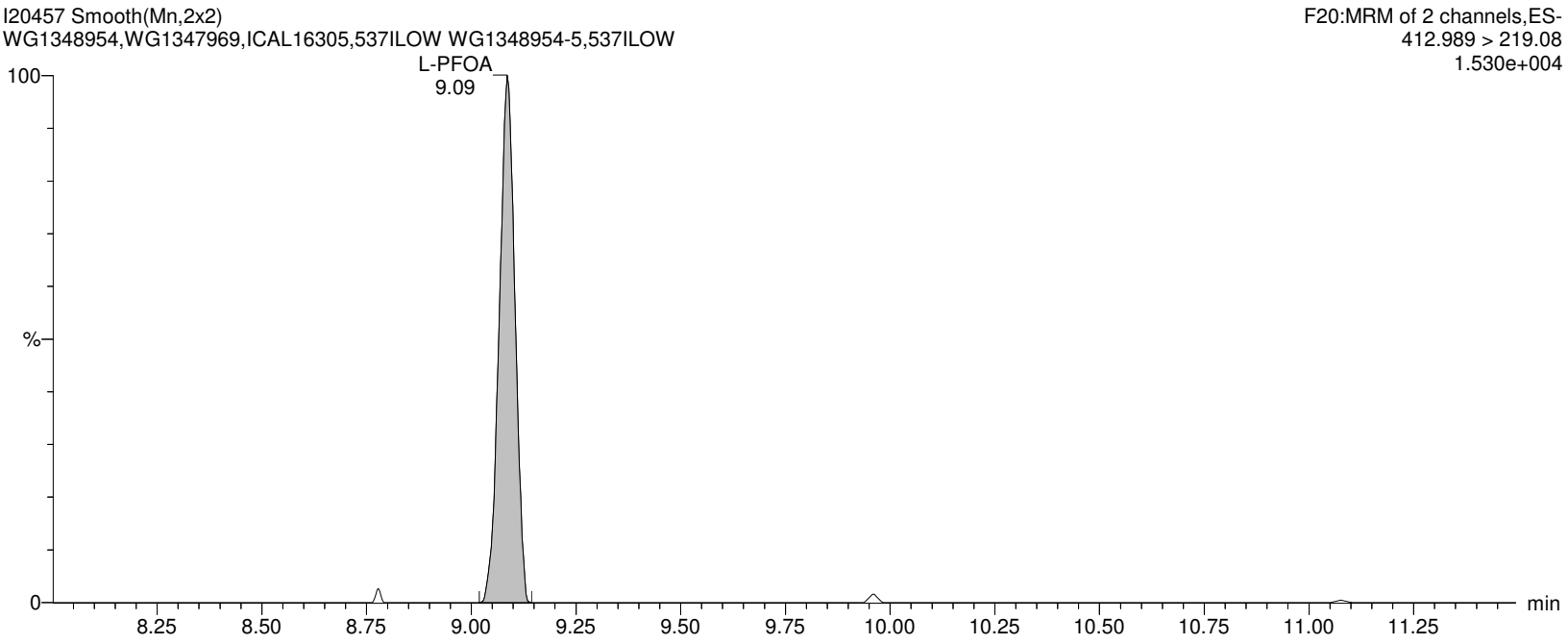

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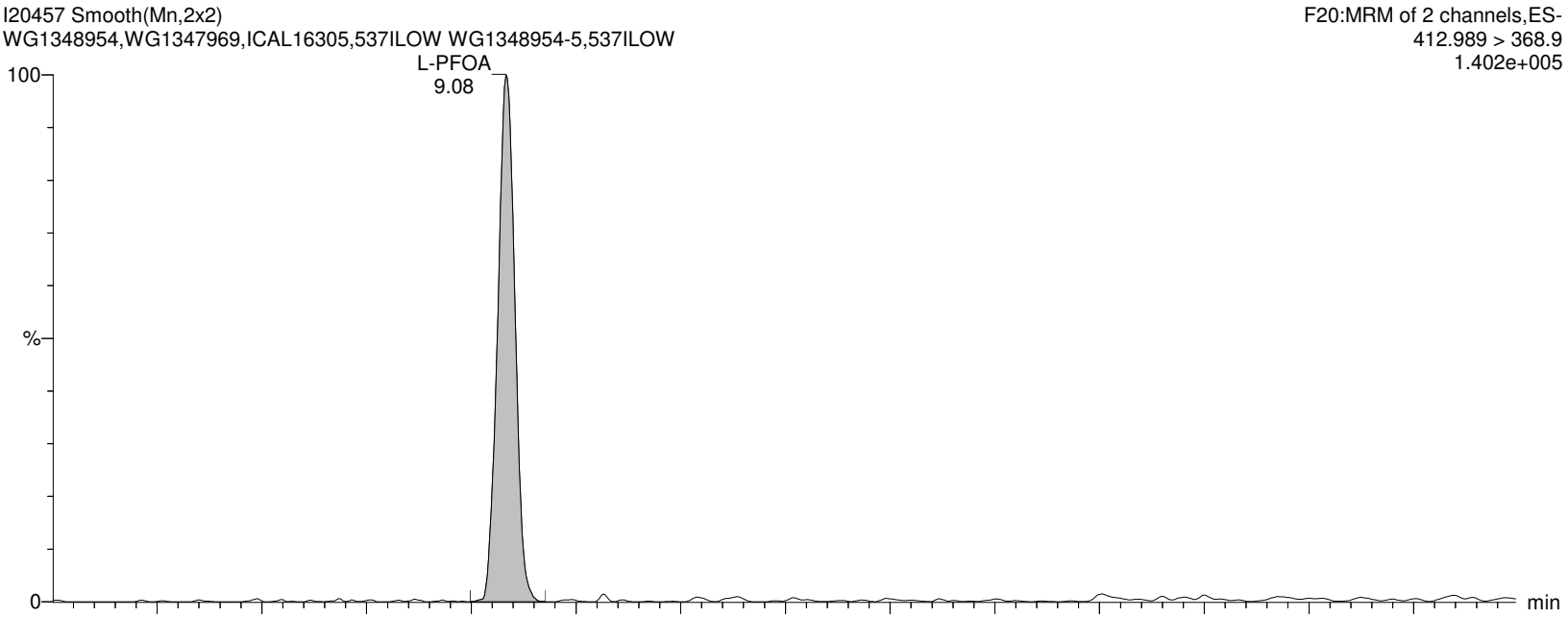

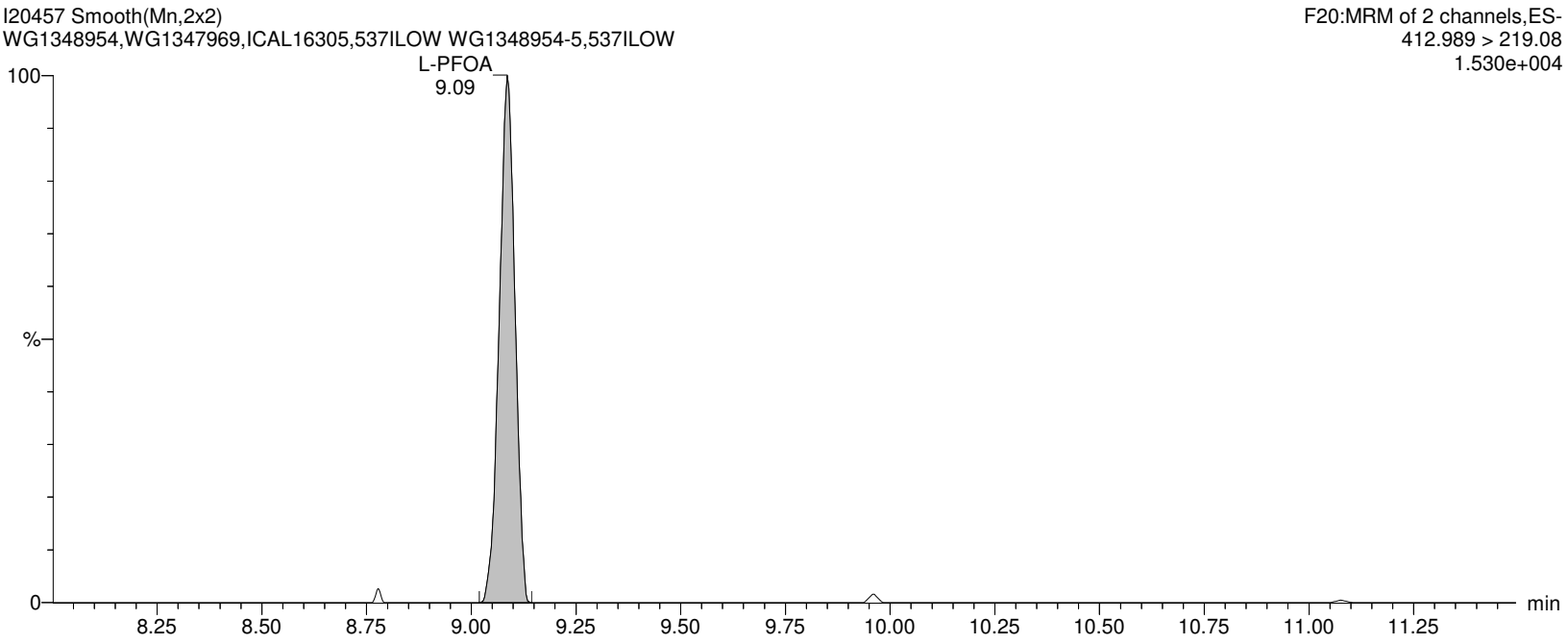

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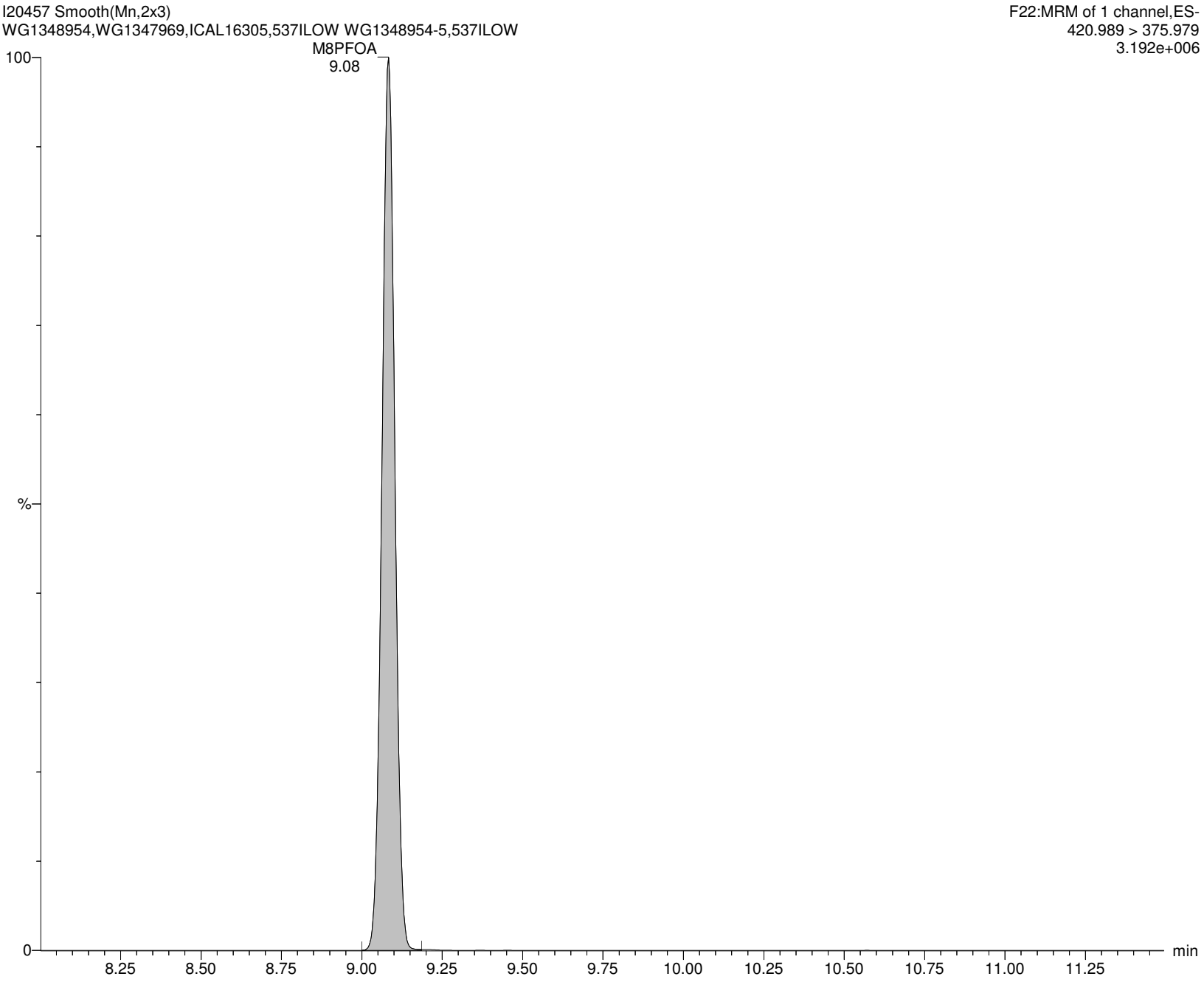

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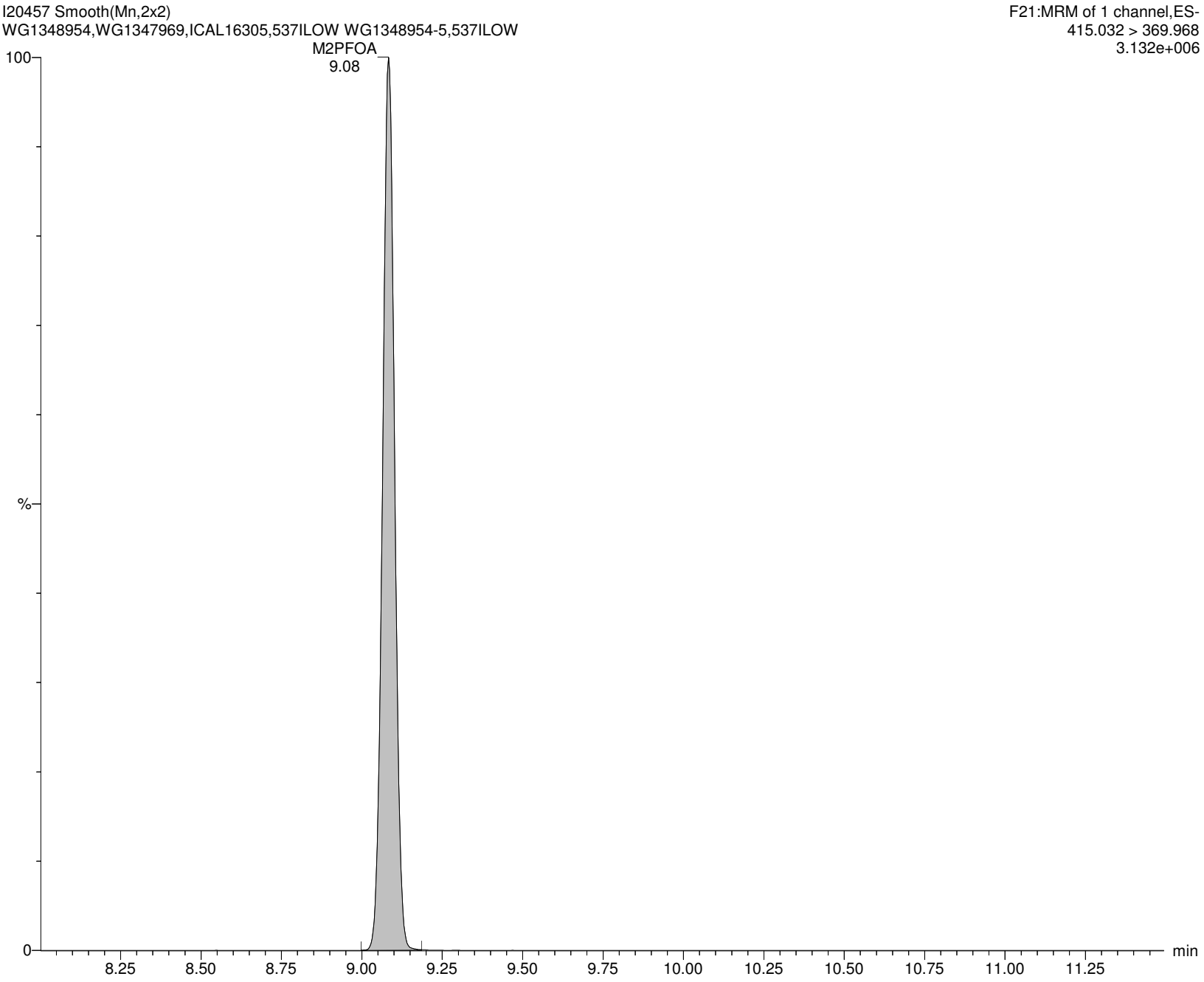

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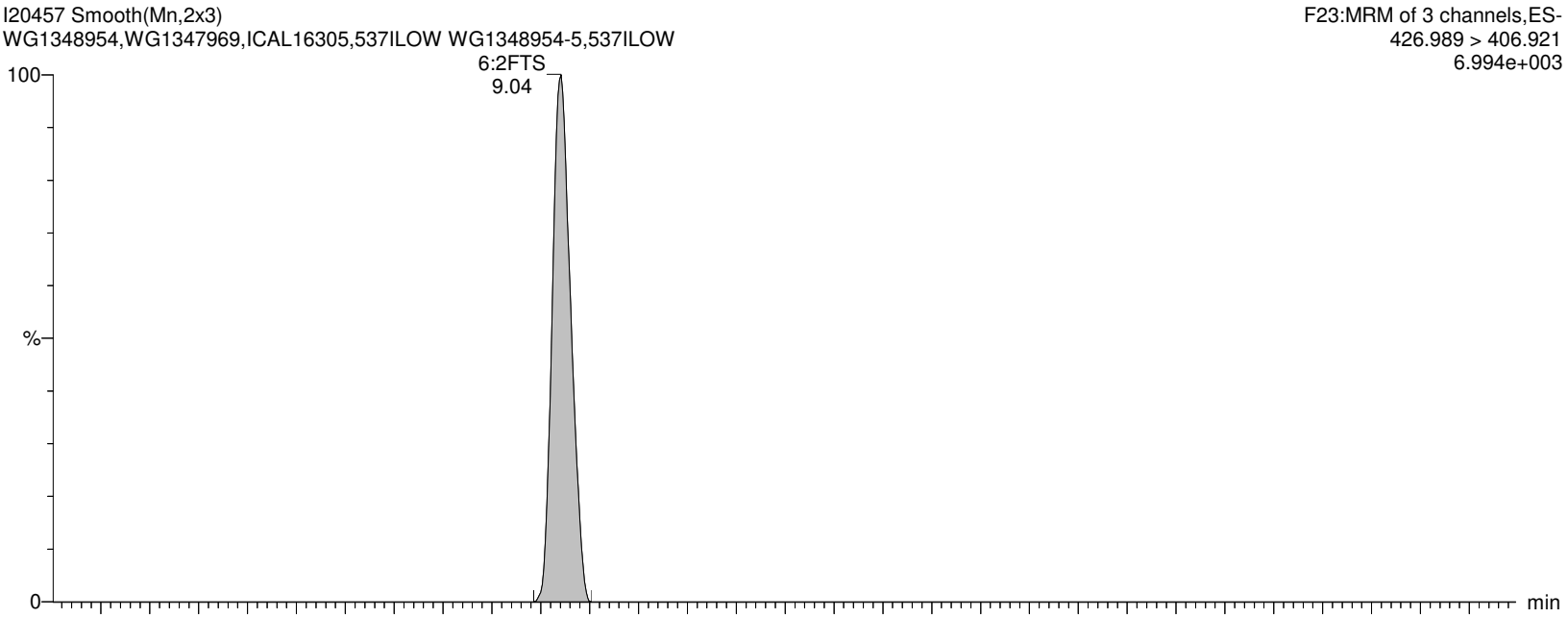

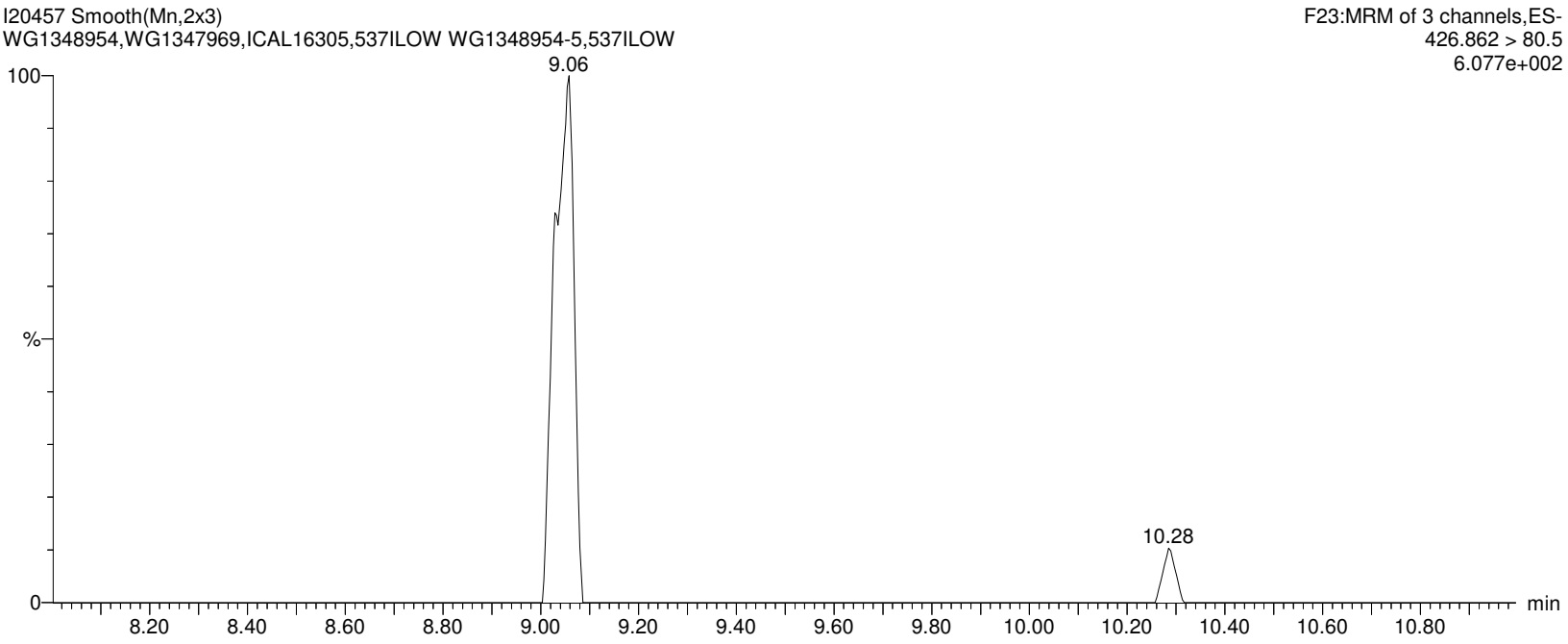

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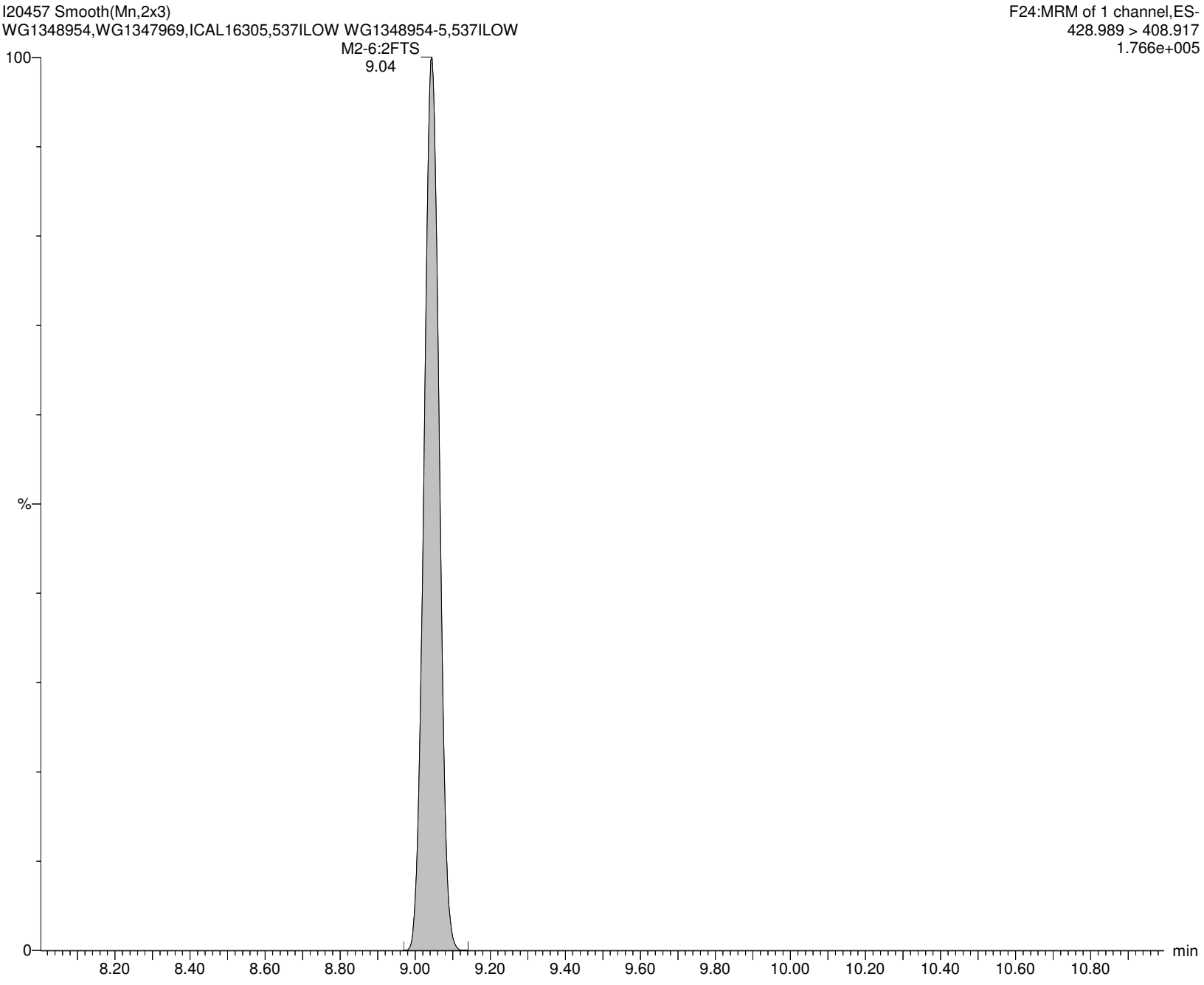

all concentration units in (ng/mL)

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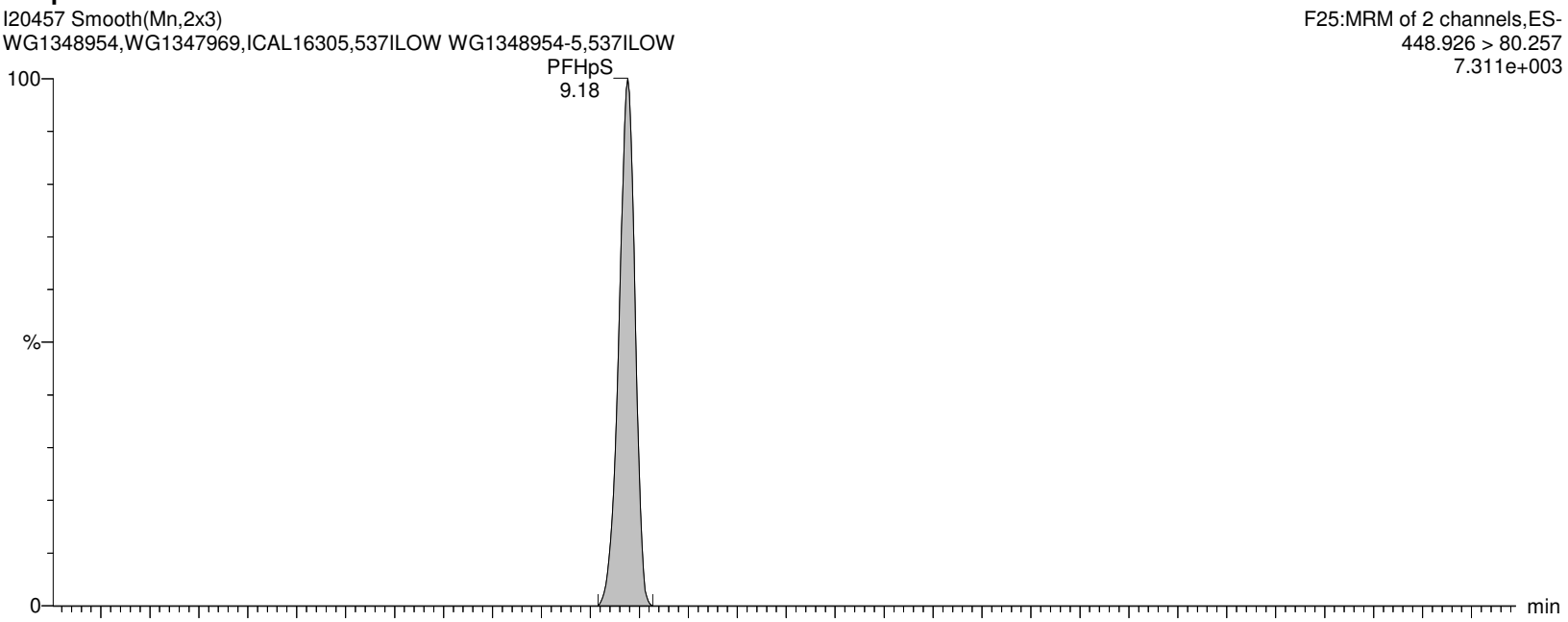

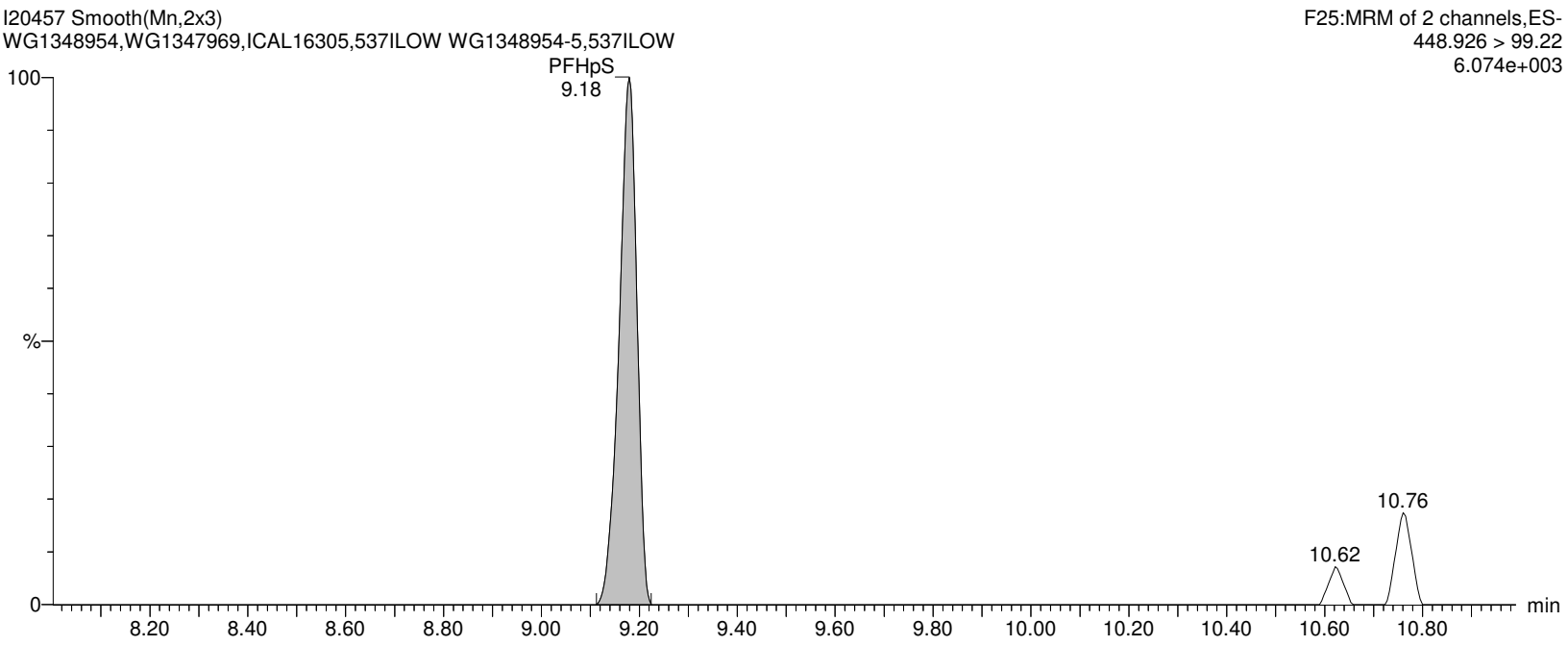

all concentration units in (ng/mL)

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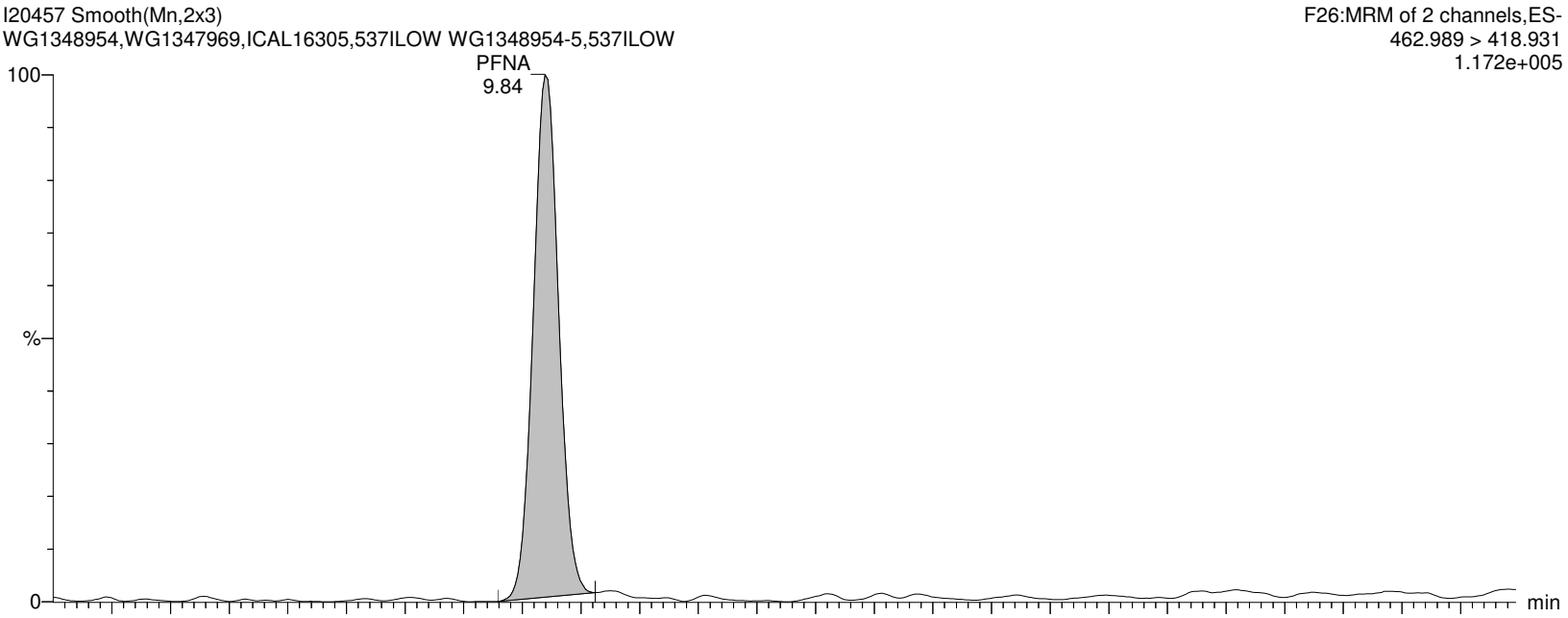

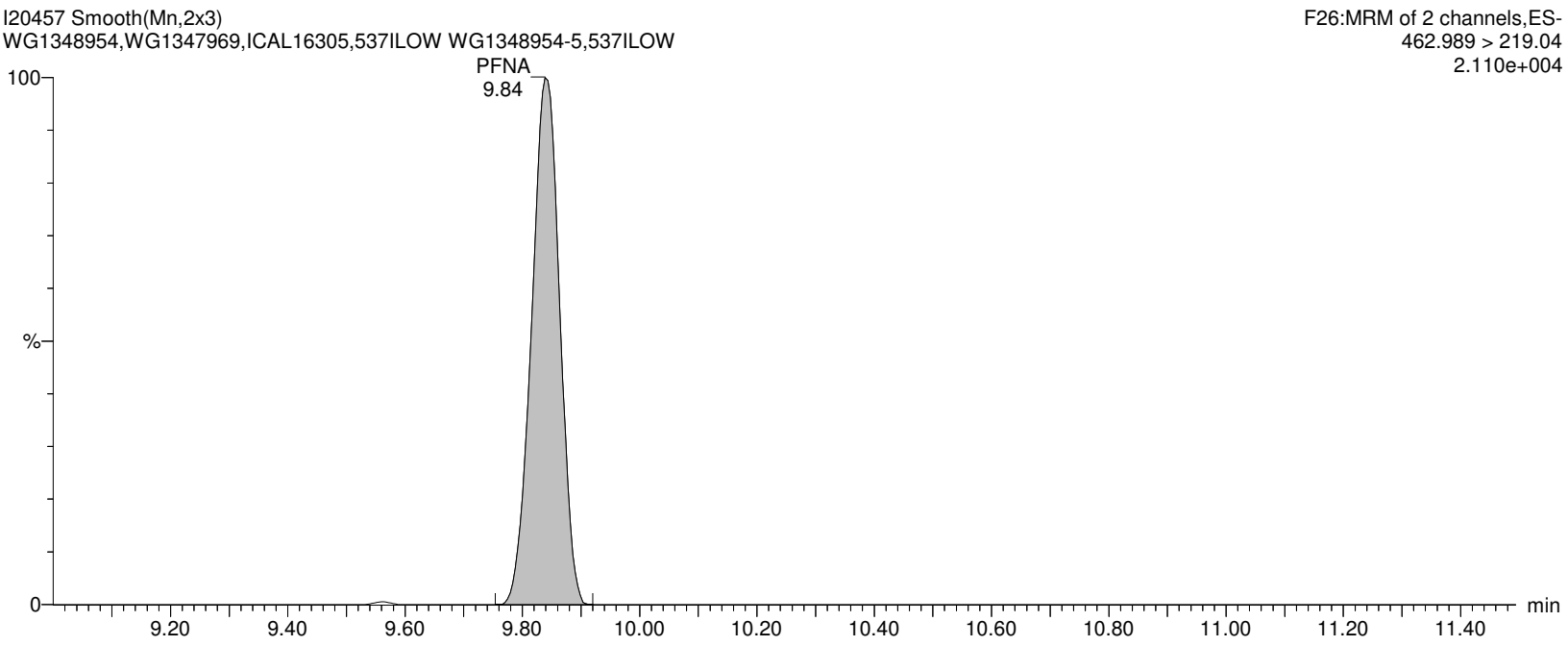

all concentration units in (ng/mL)

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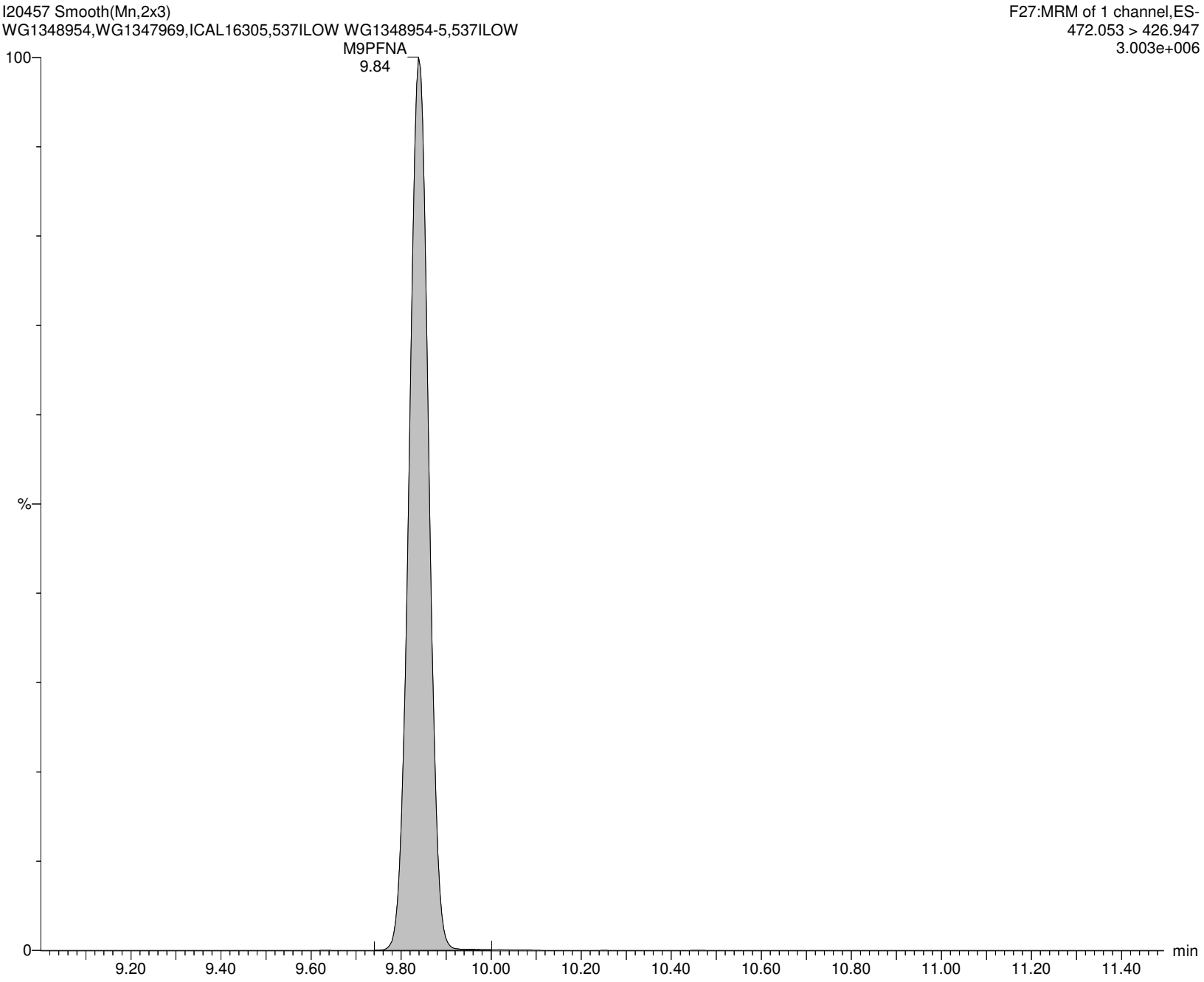

all concentration units in (ng/mL)

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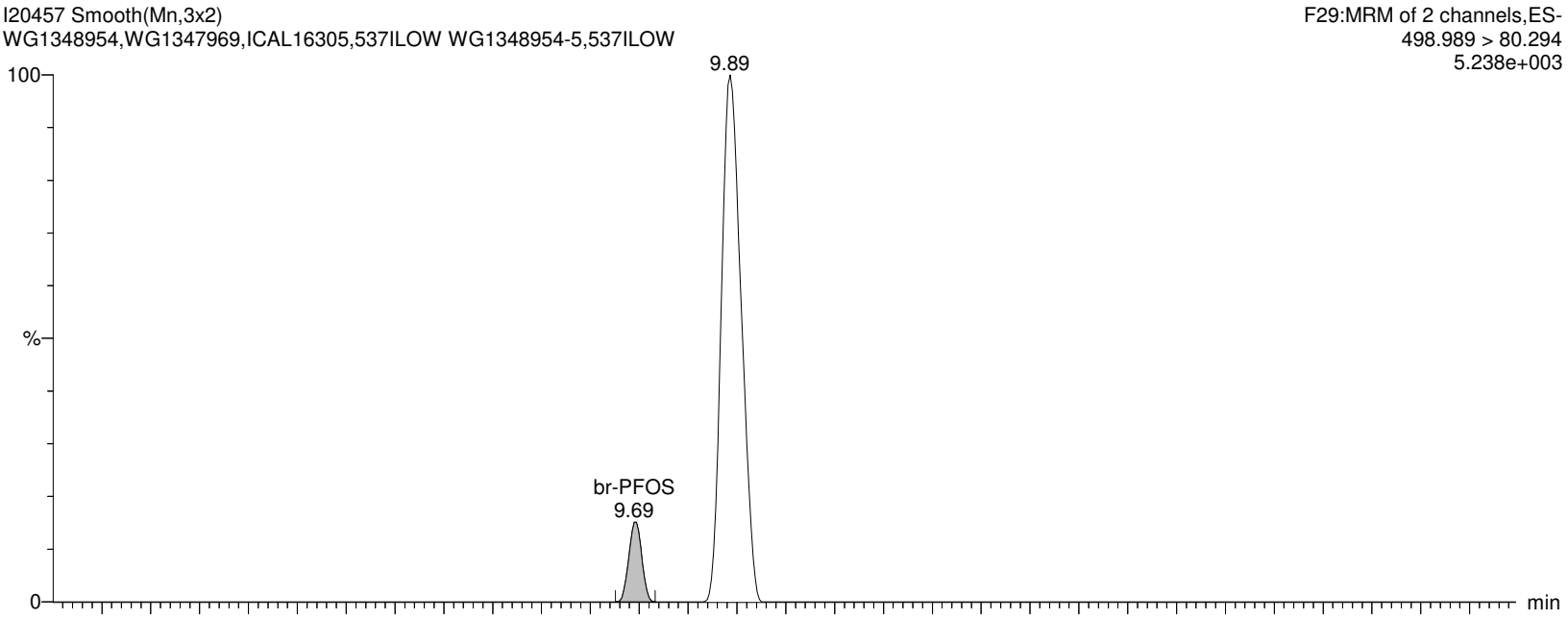

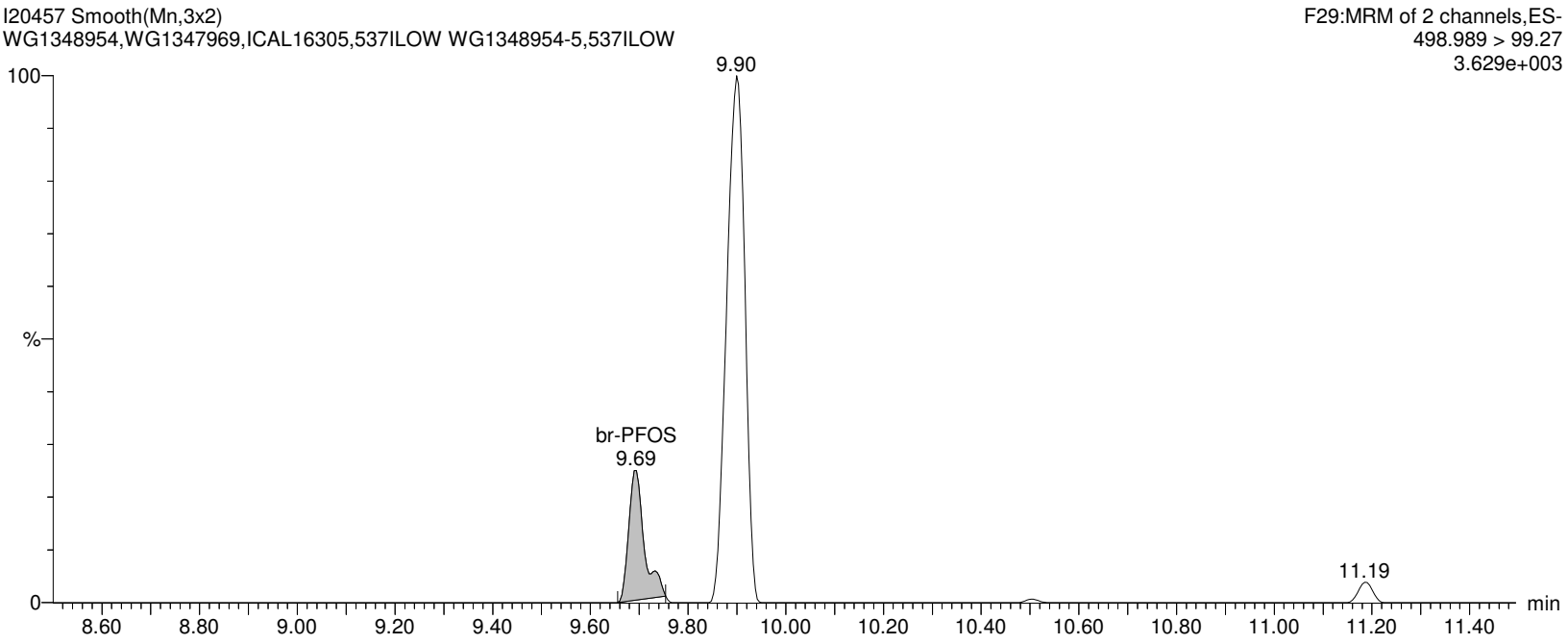

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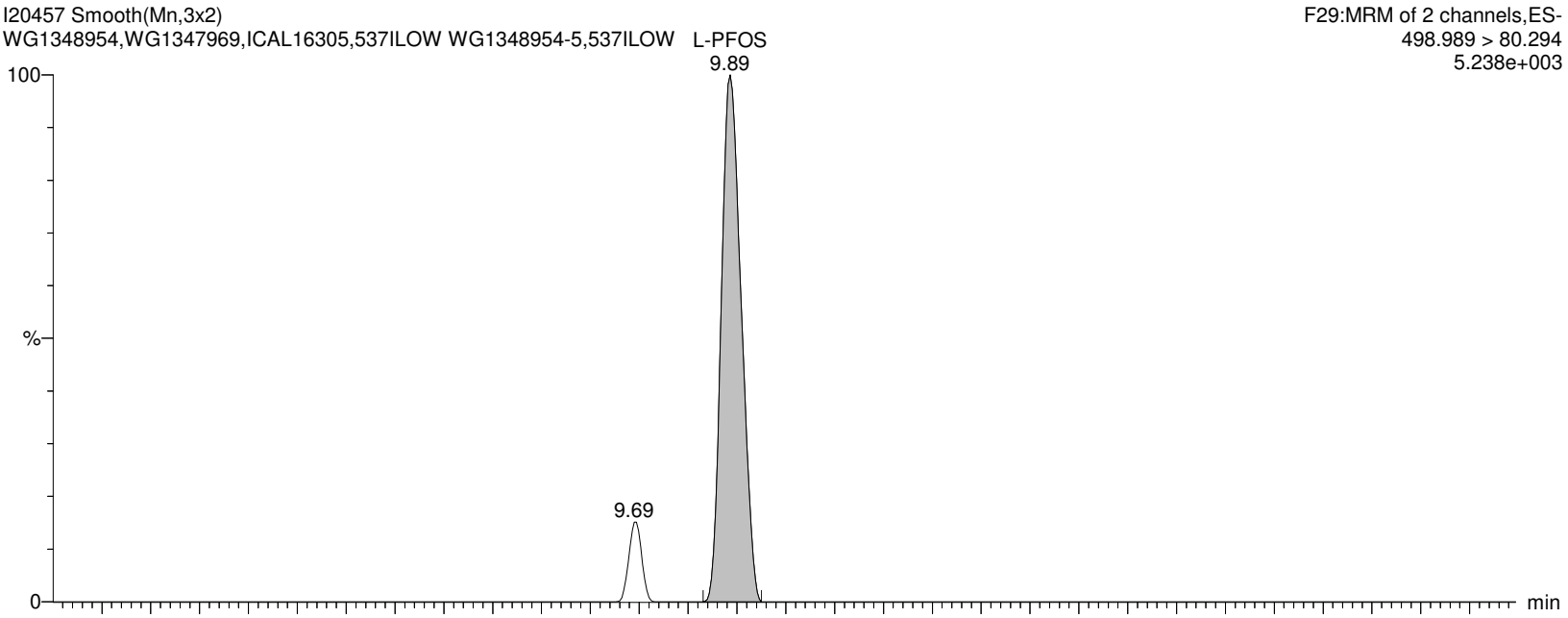

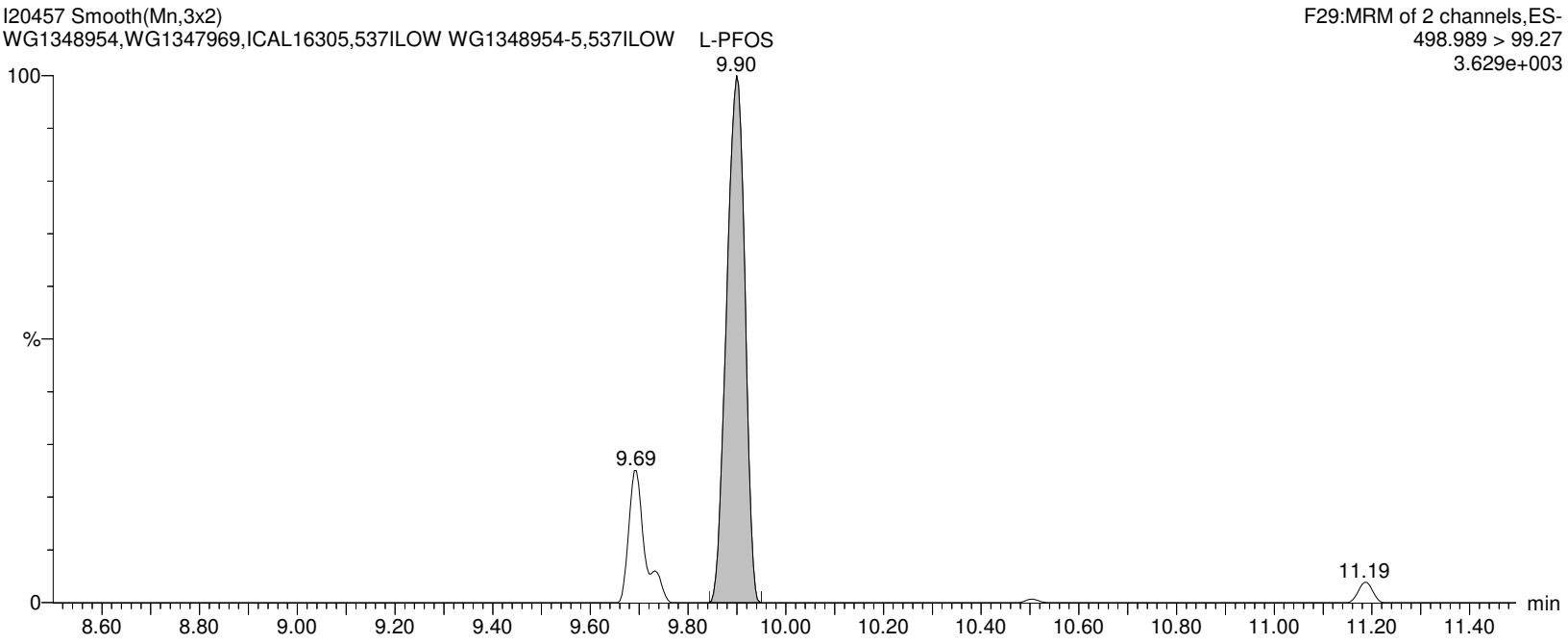

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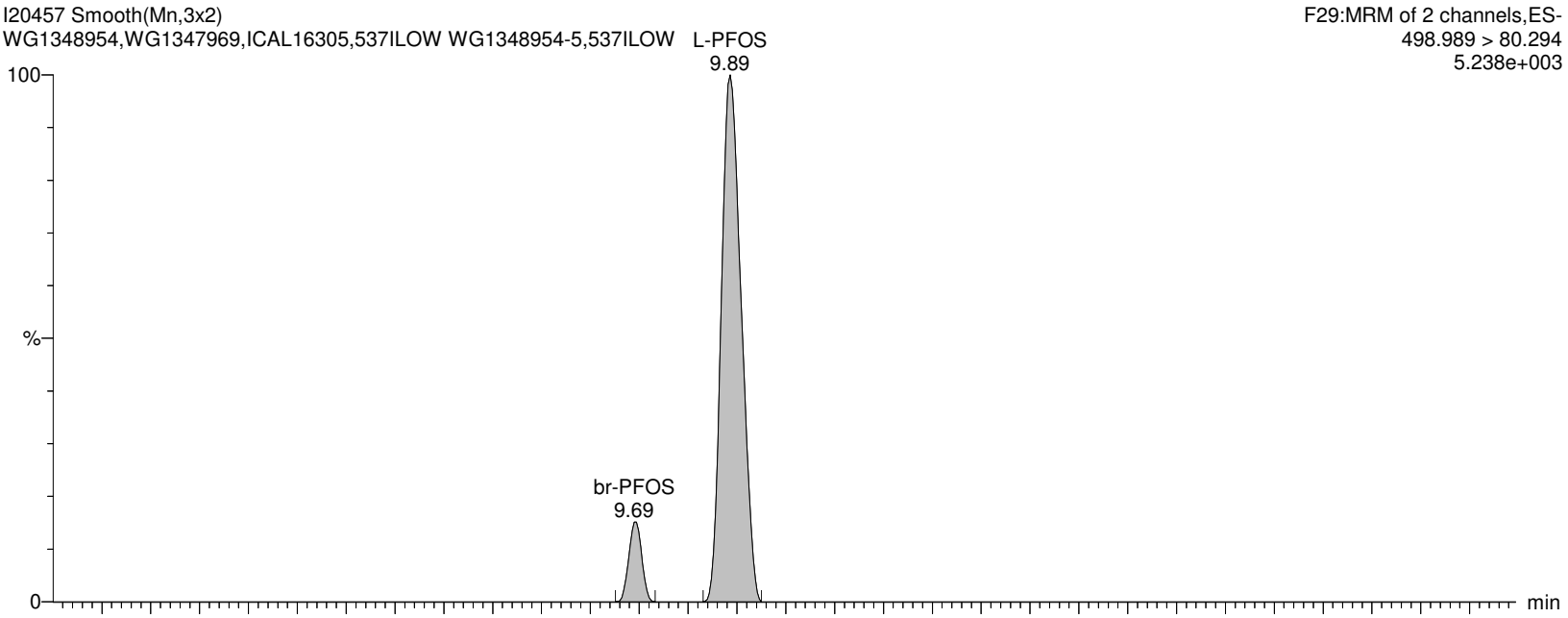

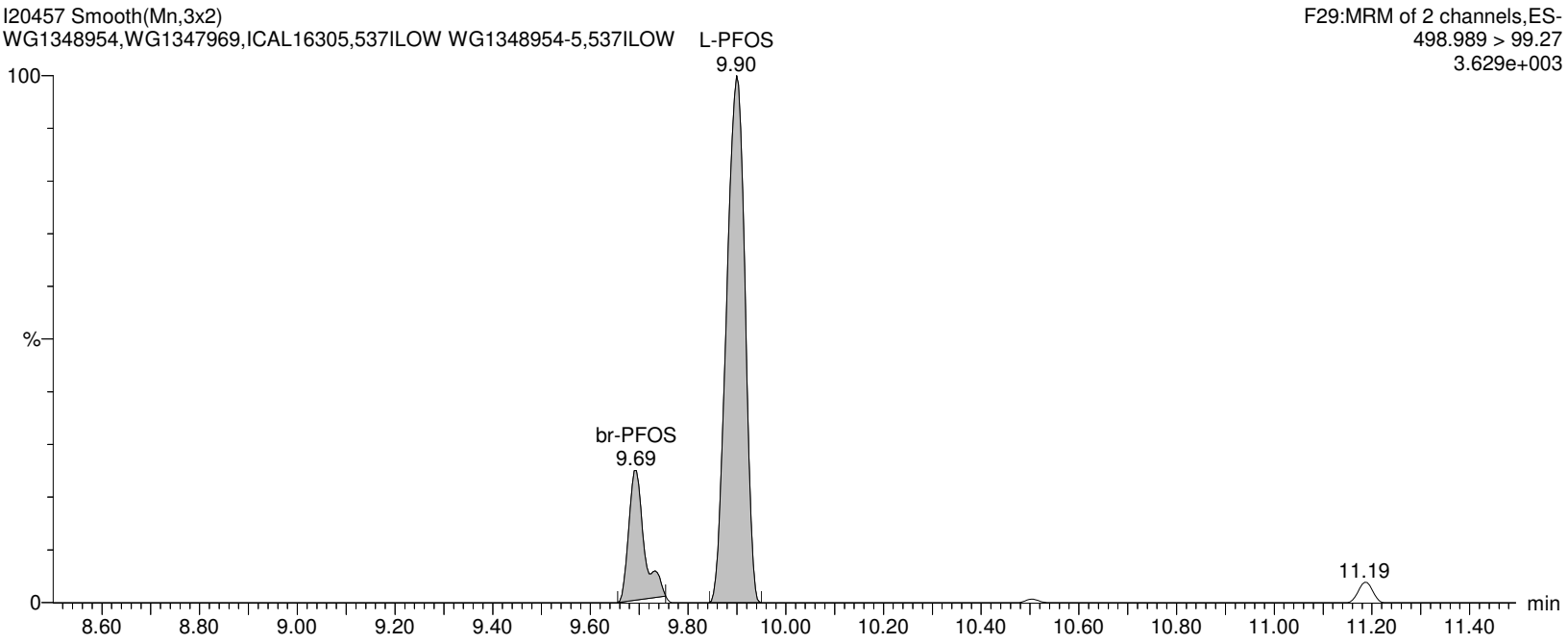

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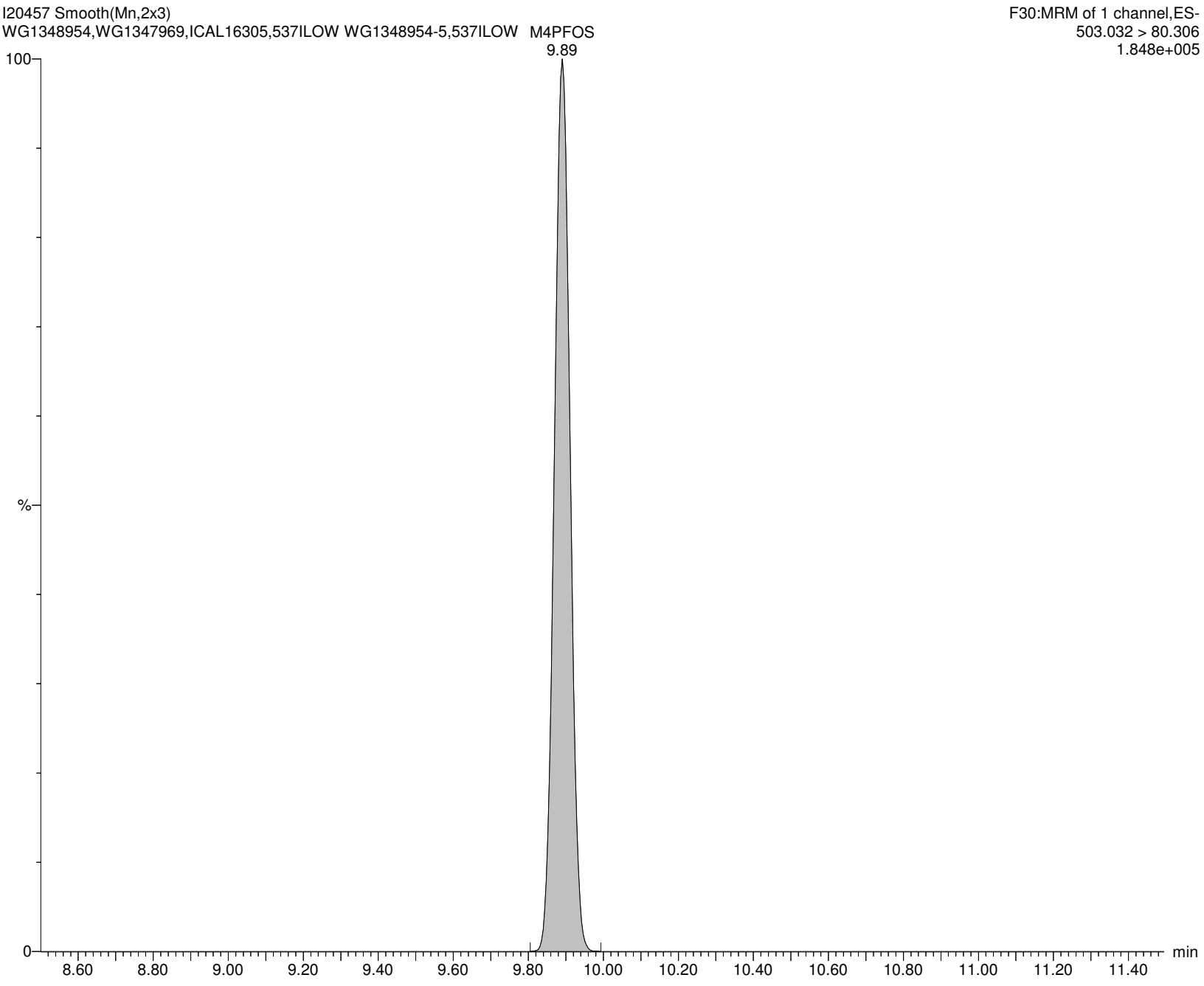

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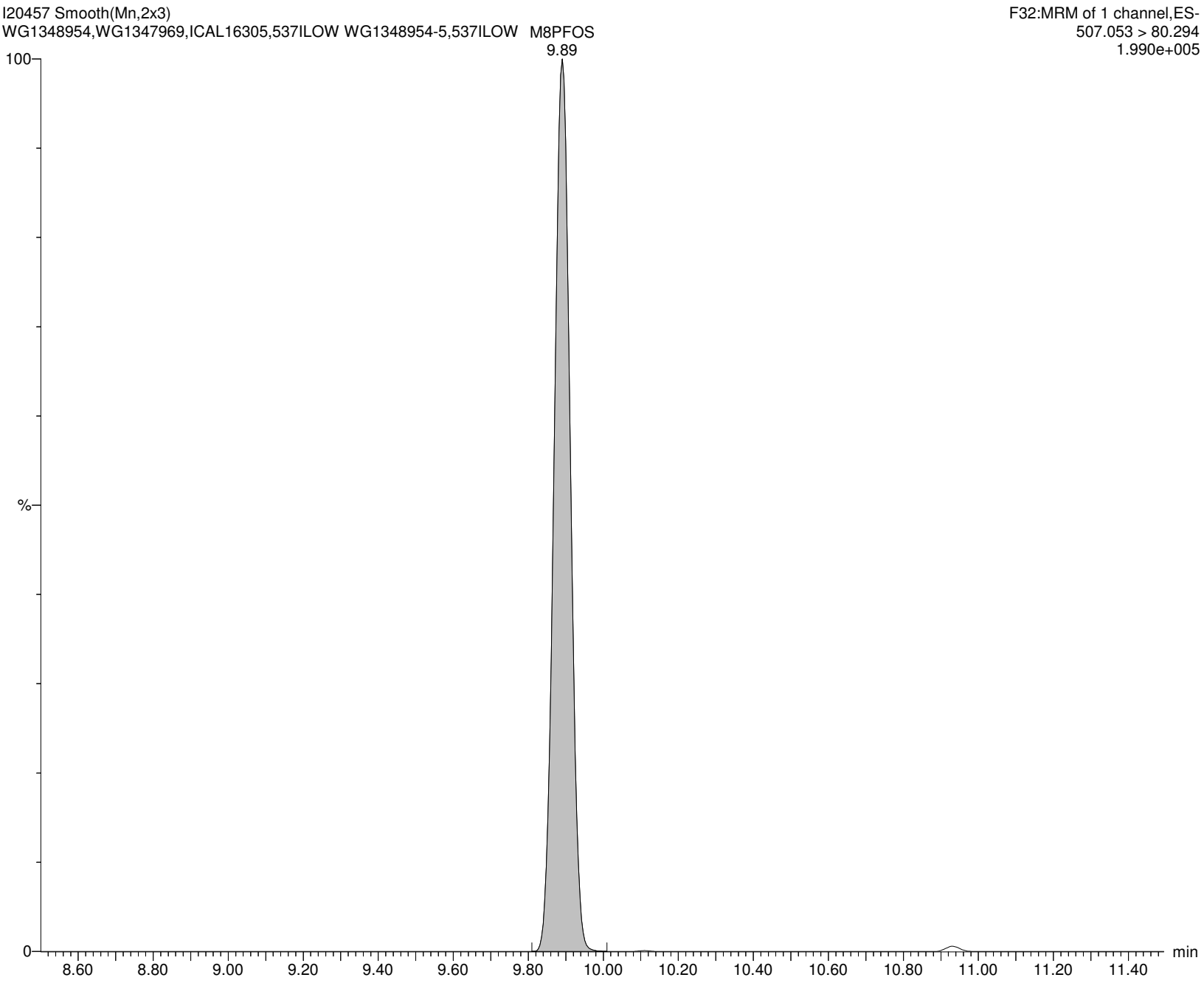

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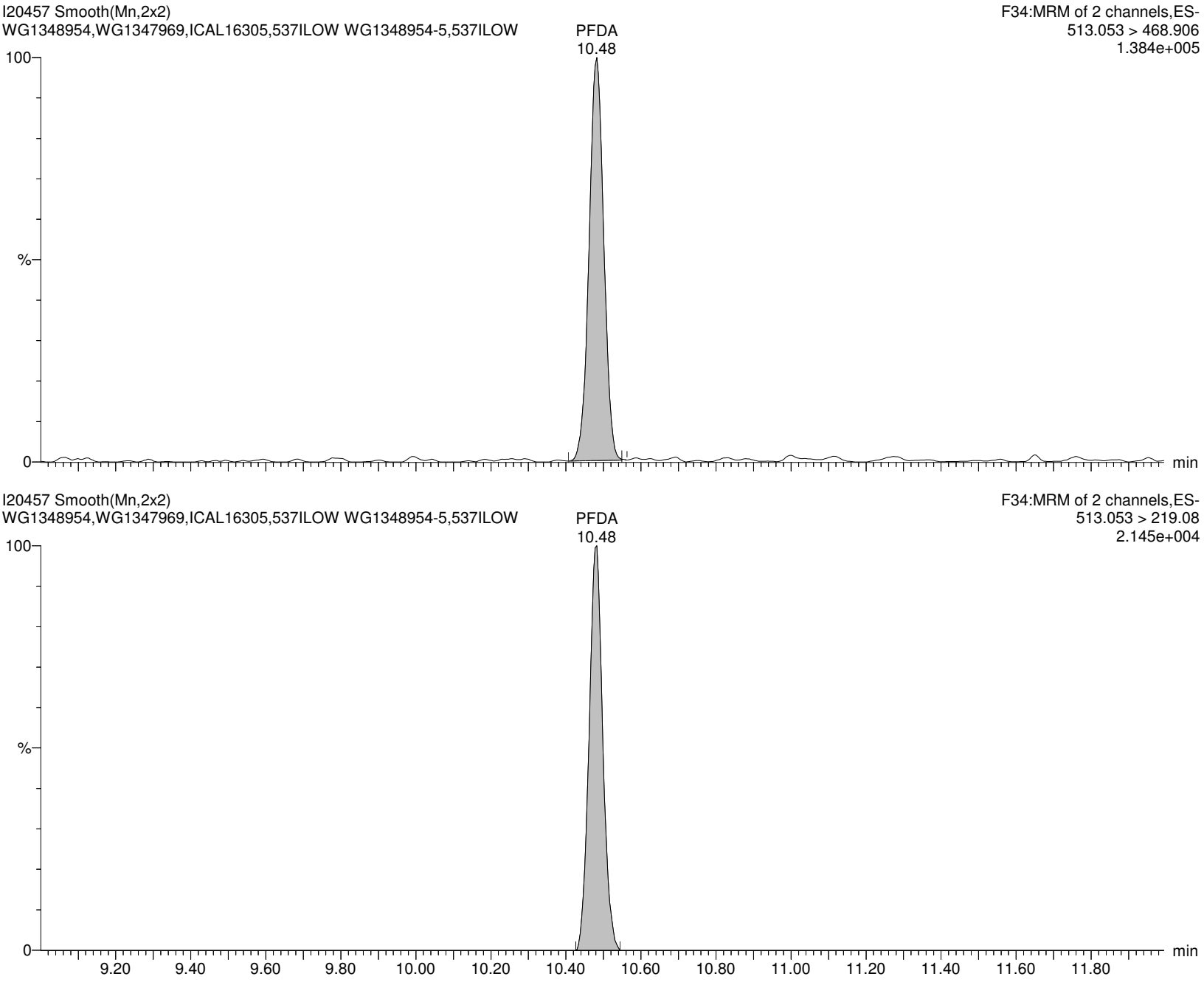

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:43 Eastern Daylight Time

Name: I20457
ID: WG1348954-5,537ILOW
Date: 11-Mar-2020
Time: 03:27:13
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
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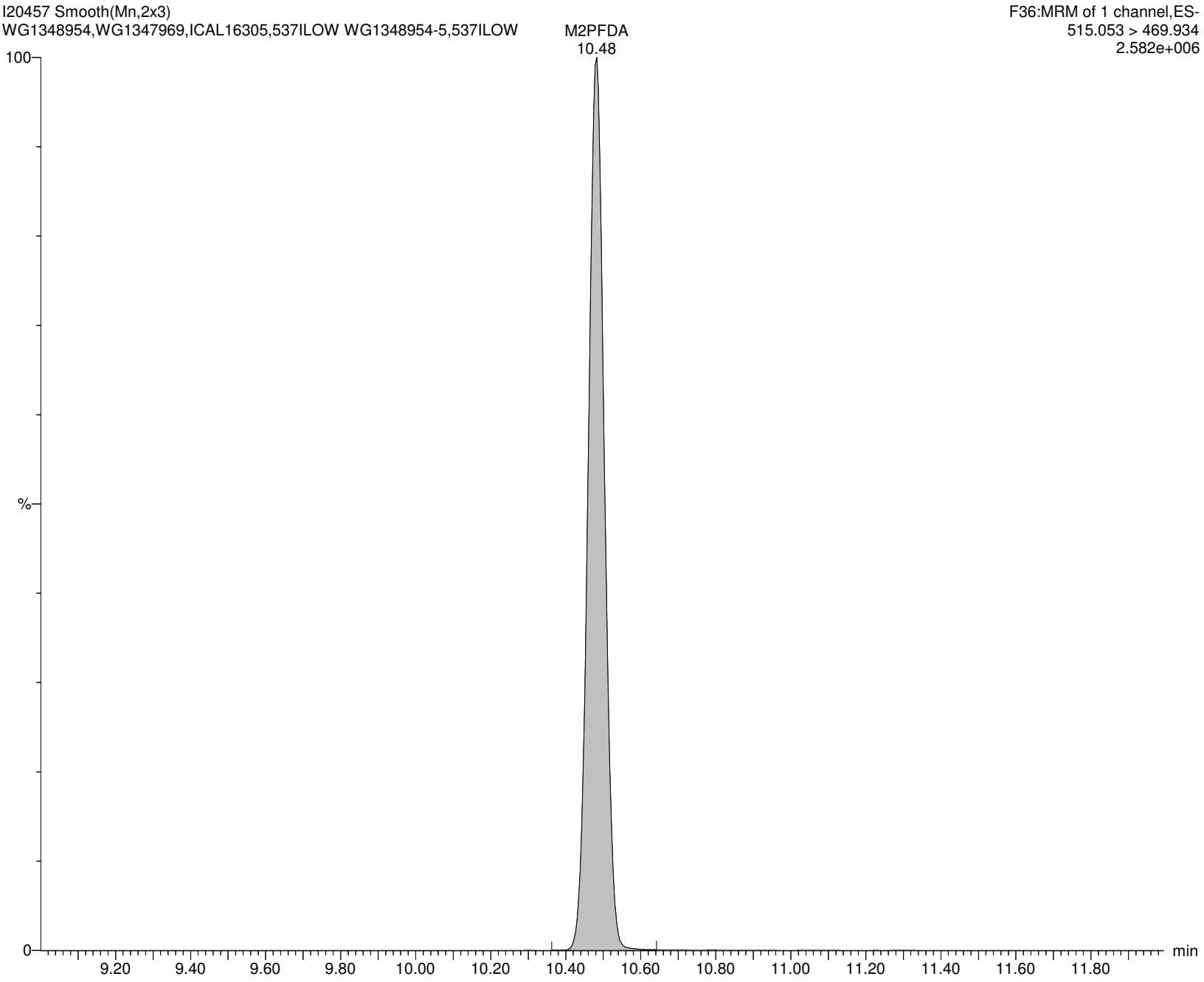

all concentration units in (ng/mL)

Alpha Analytical Inc.
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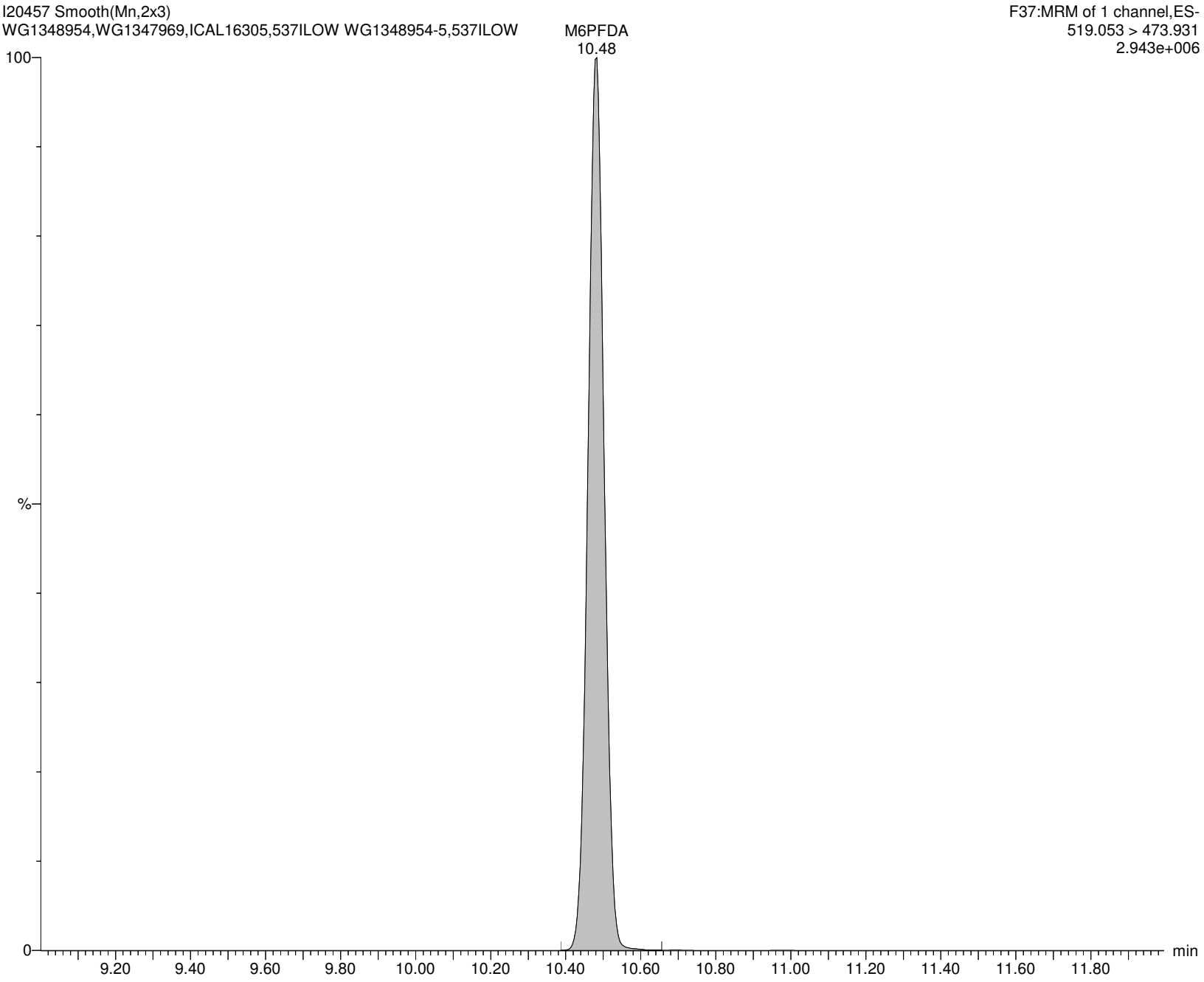

all concentration units in (ng/mL)

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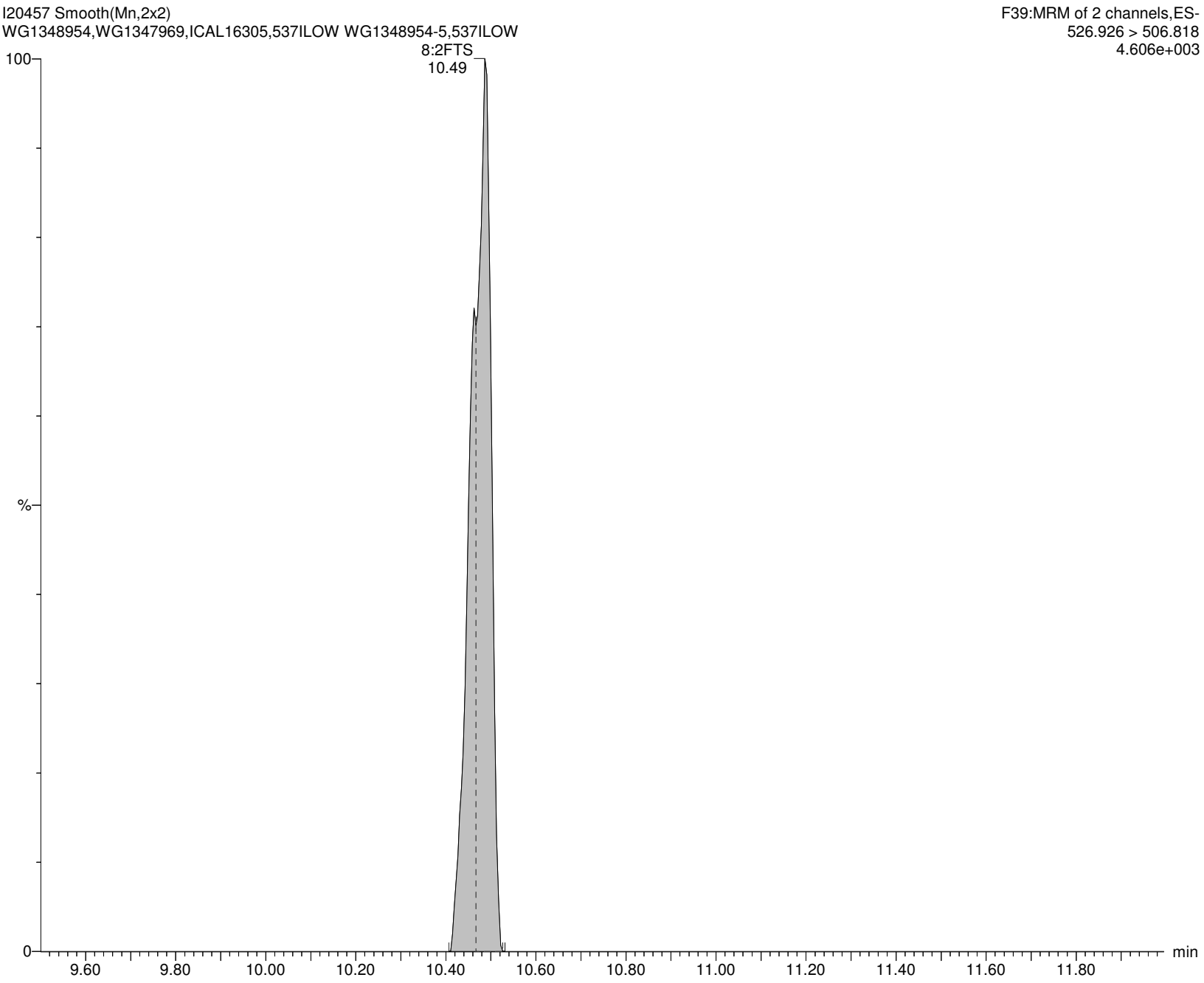

all concentration units in (ng/mL)

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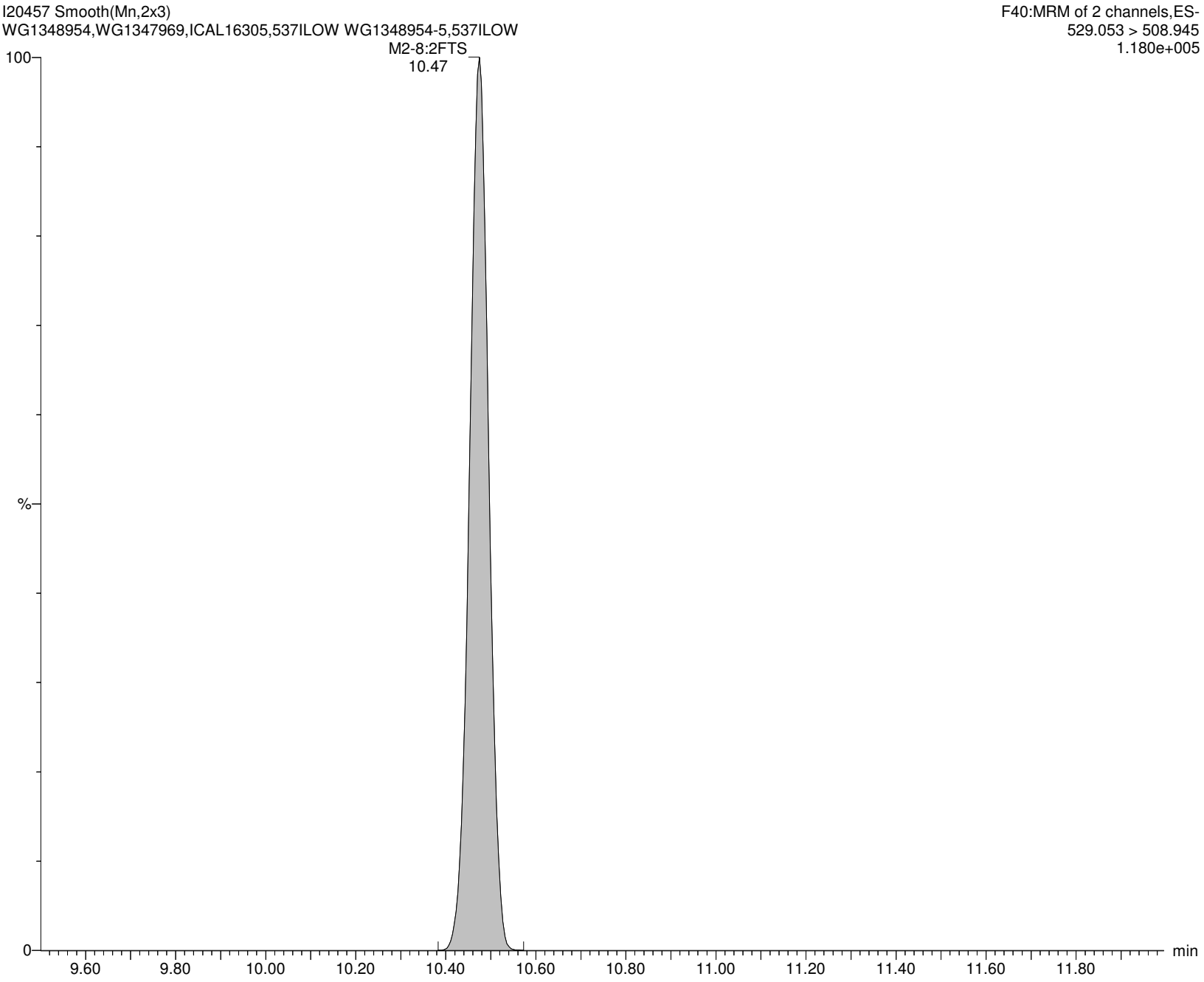

all concentration units in (ng/mL)

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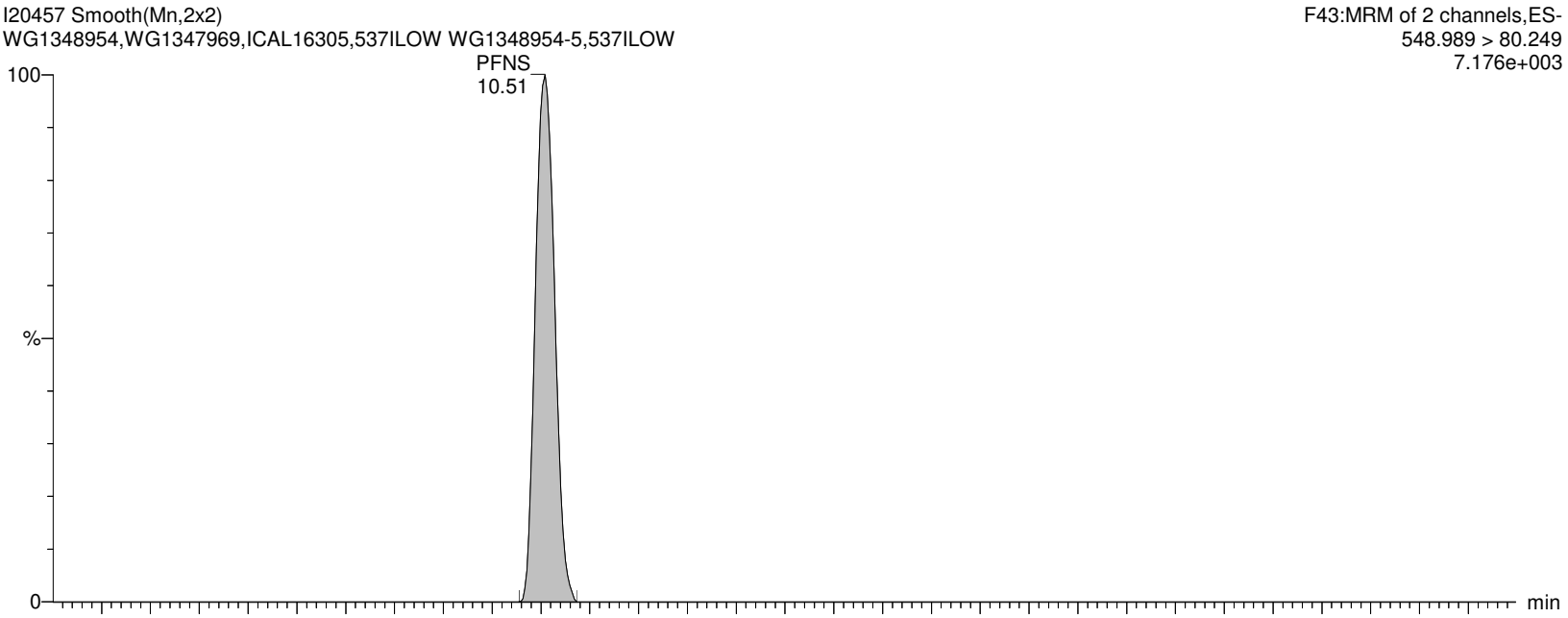

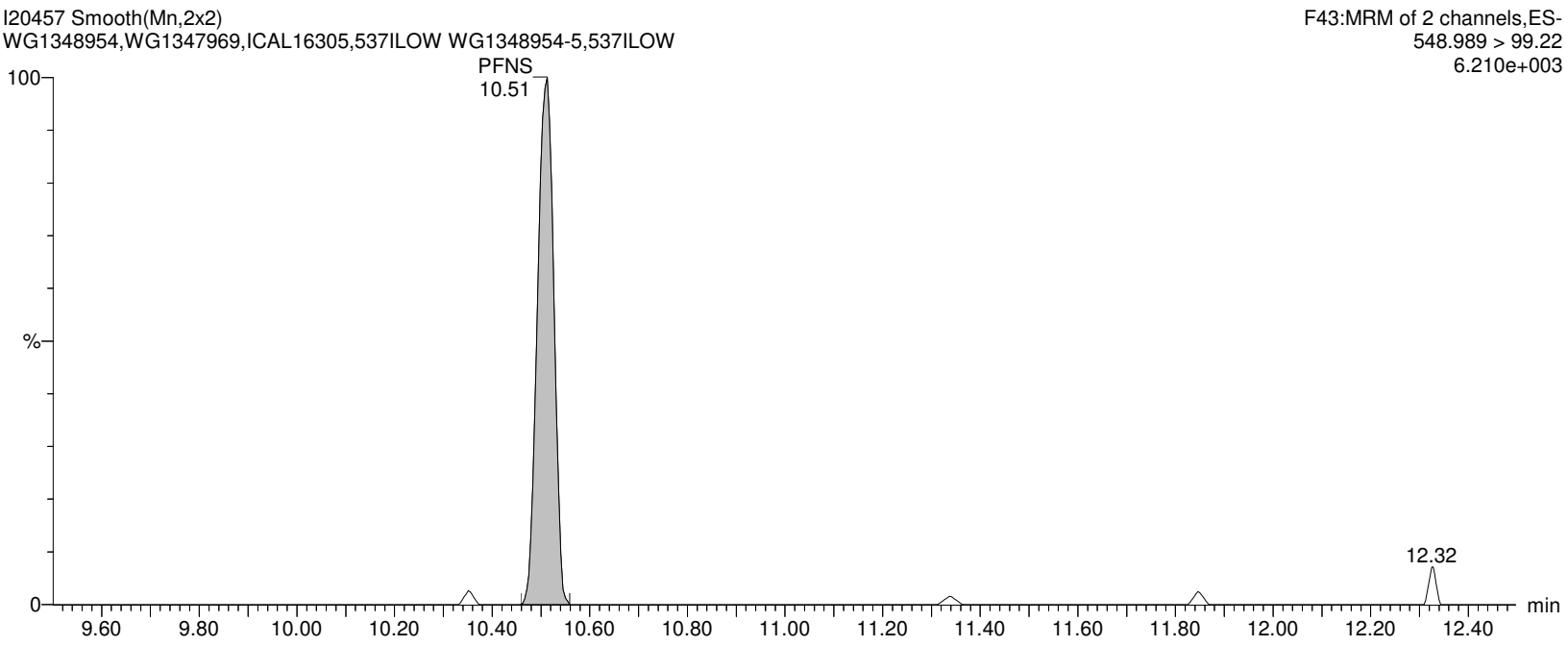

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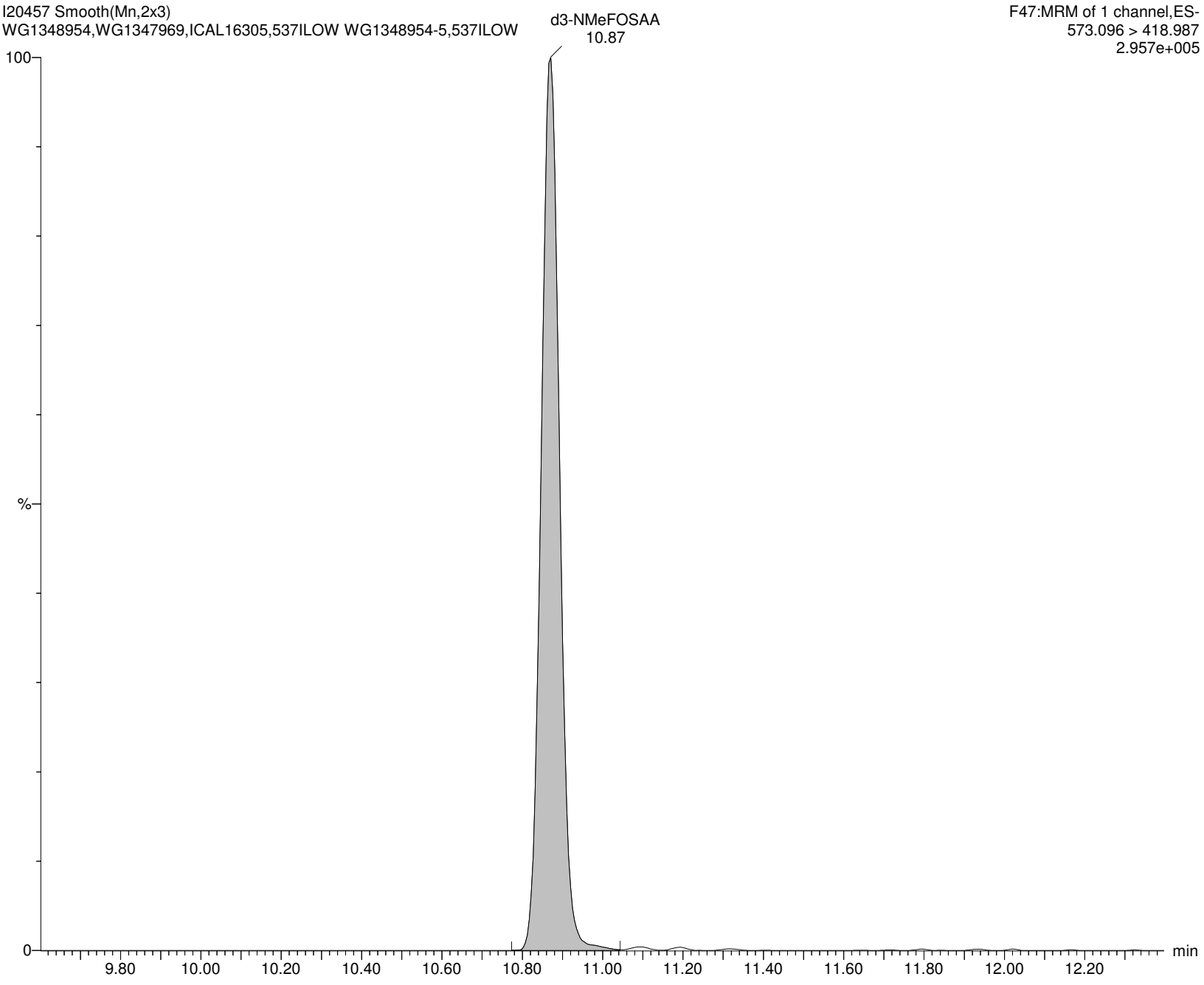
d3-NMeFOSAA



all concentration units in (ng/mL)

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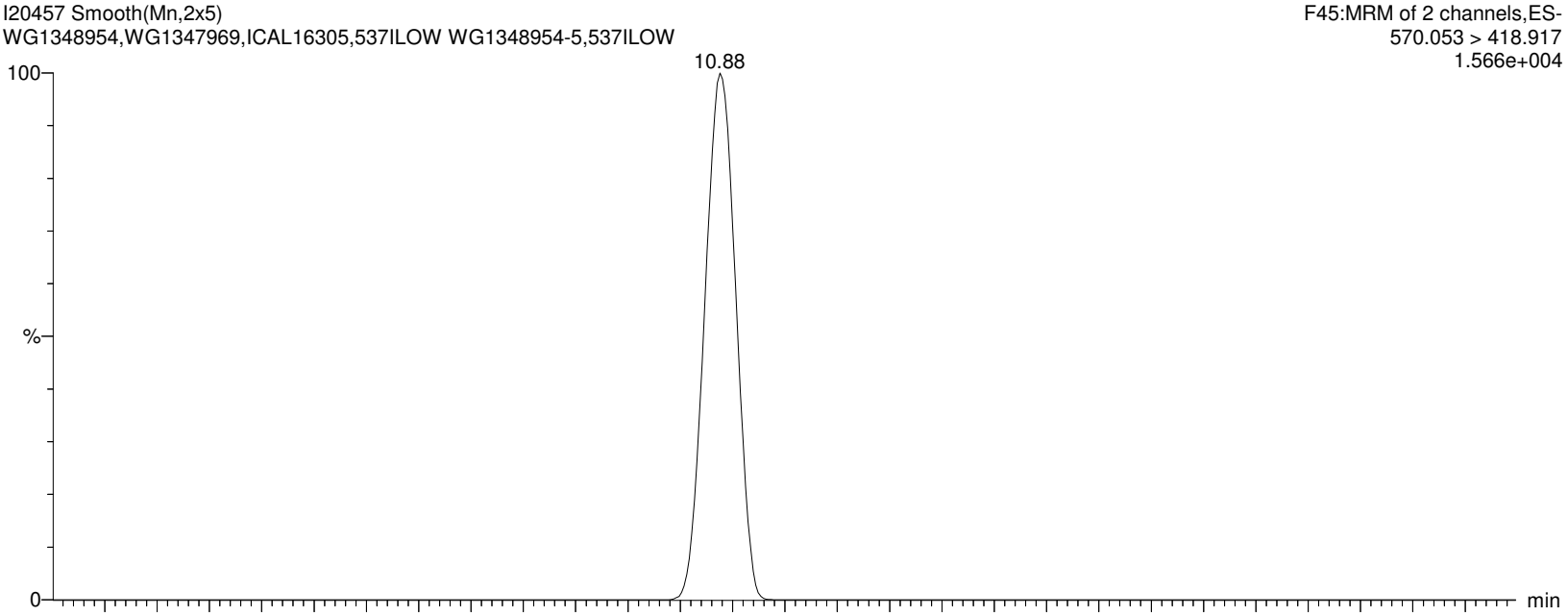

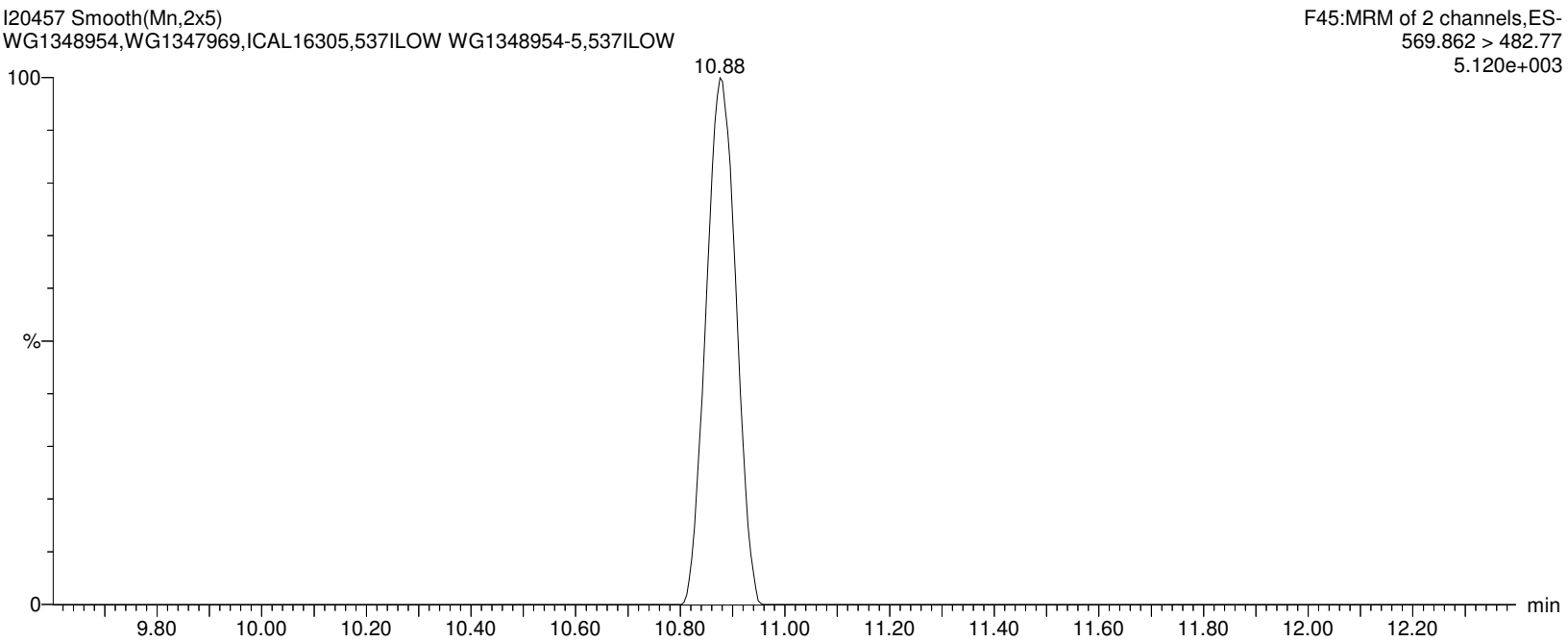

all concentration units in (ng/mL)

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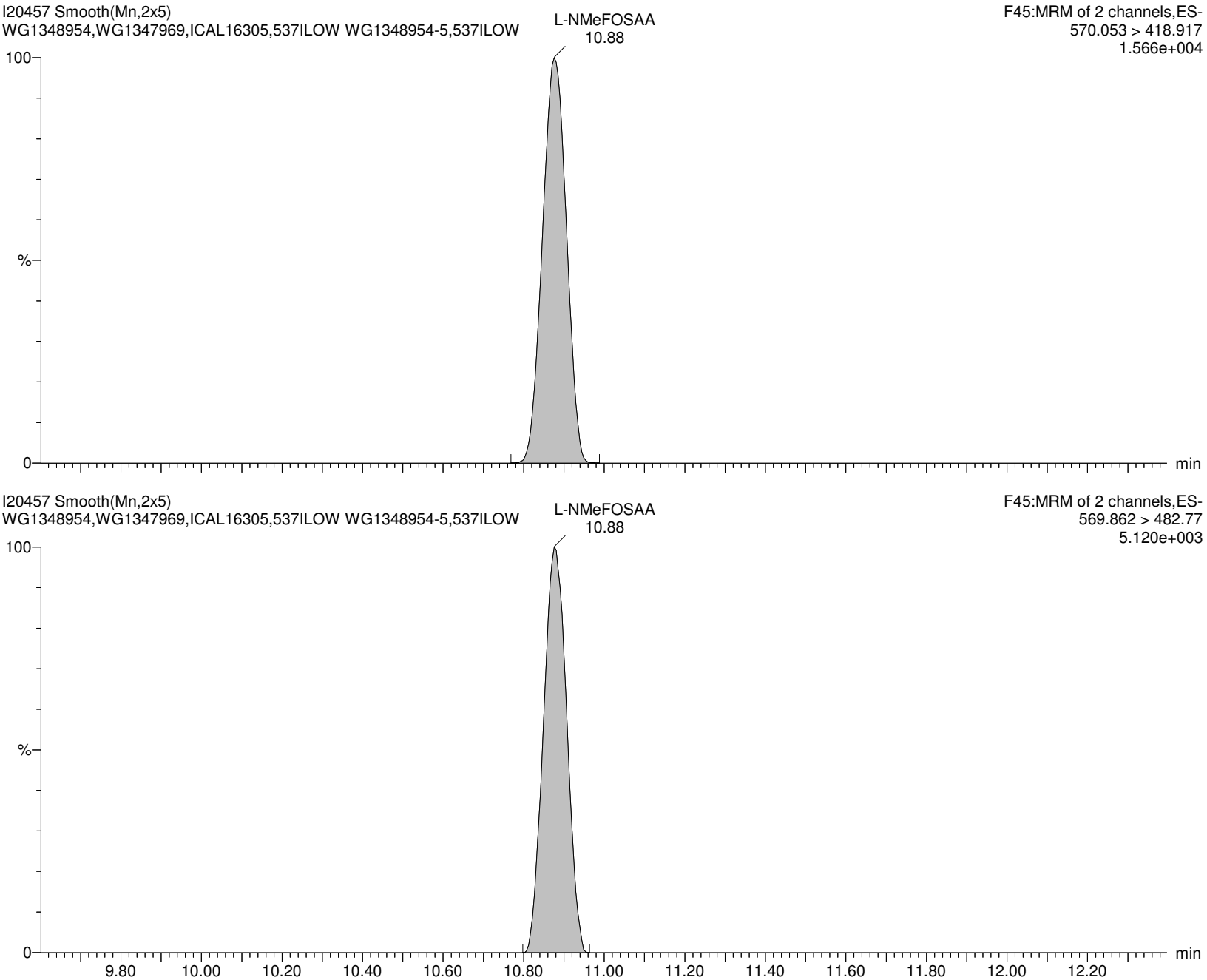

all concentration units in (ng/mL)

Alpha Analytical Inc.
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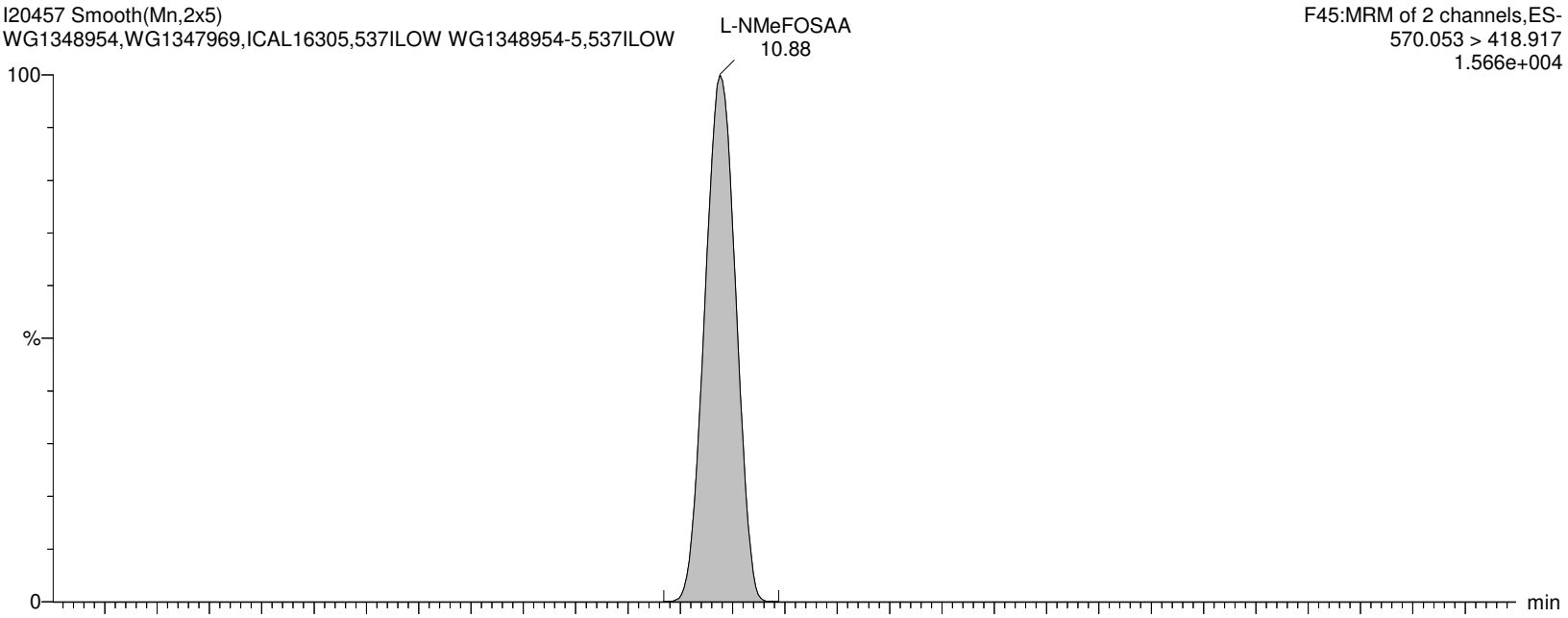

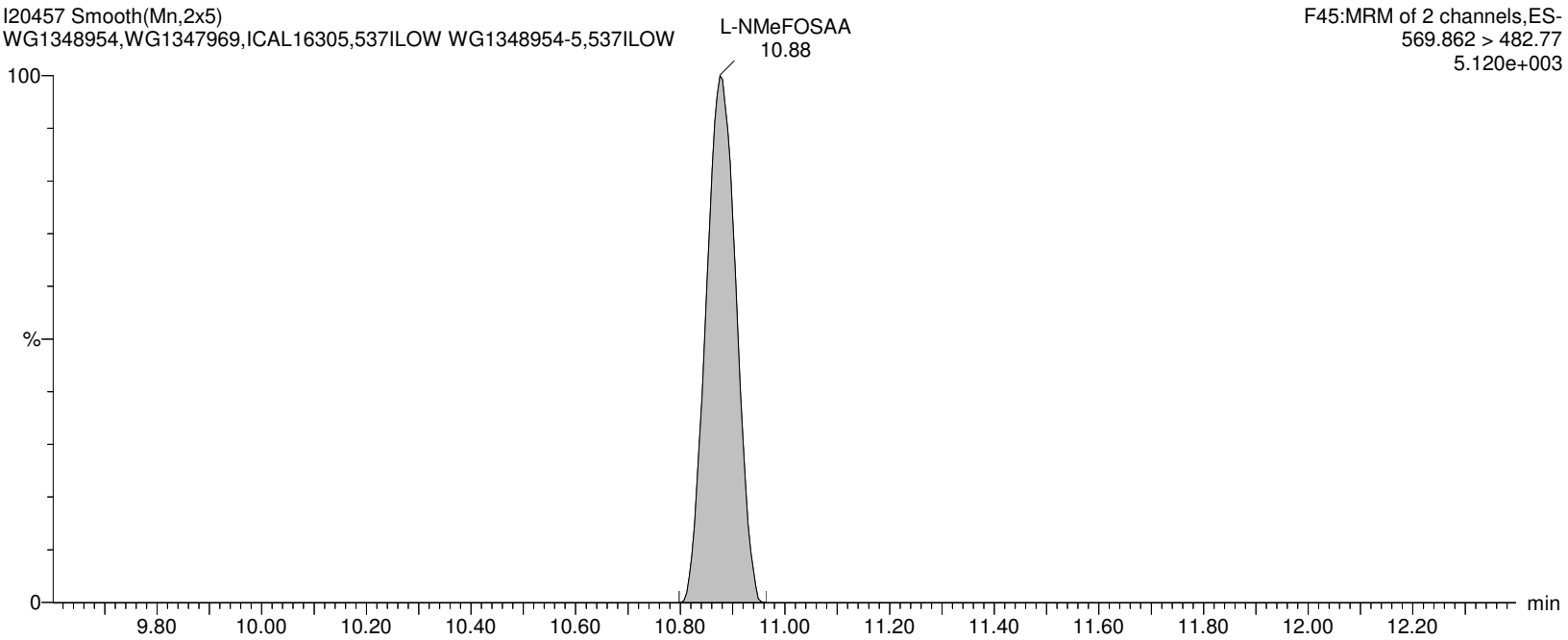

all concentration units in (ng/mL)

Alpha Analytical Inc.
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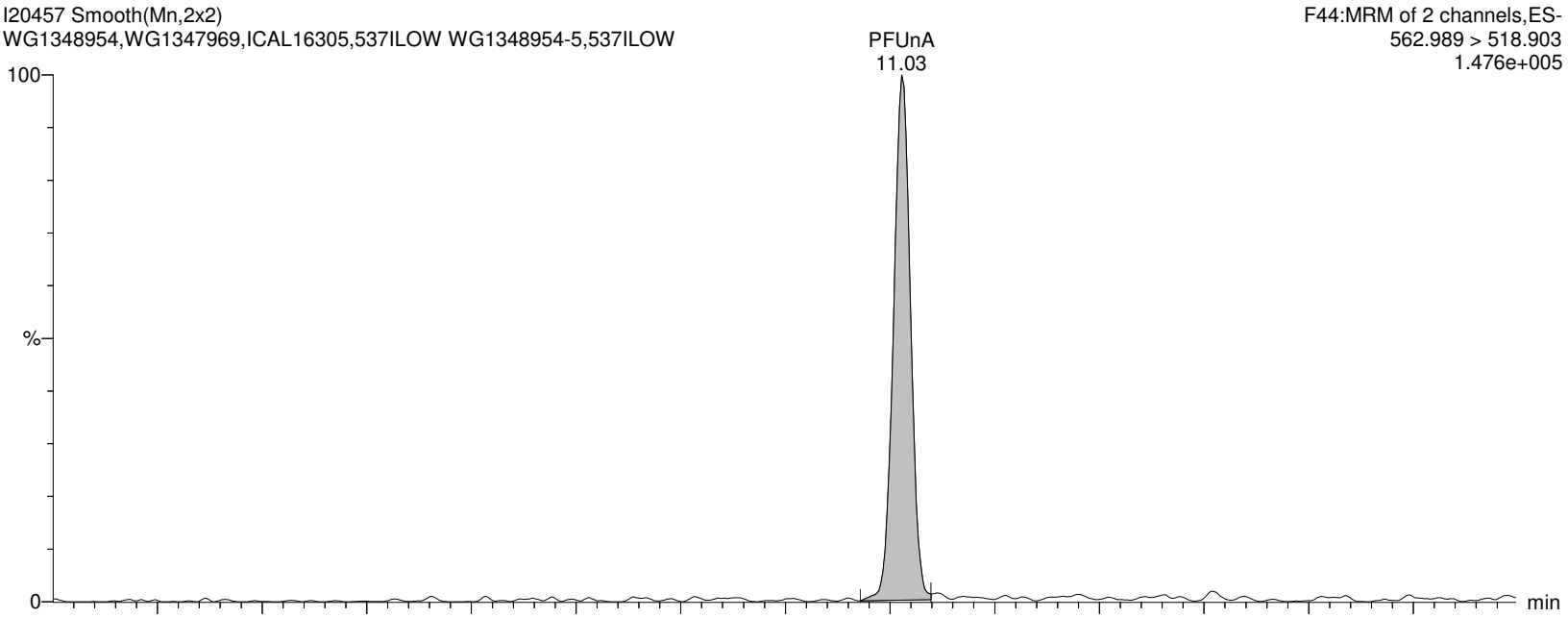

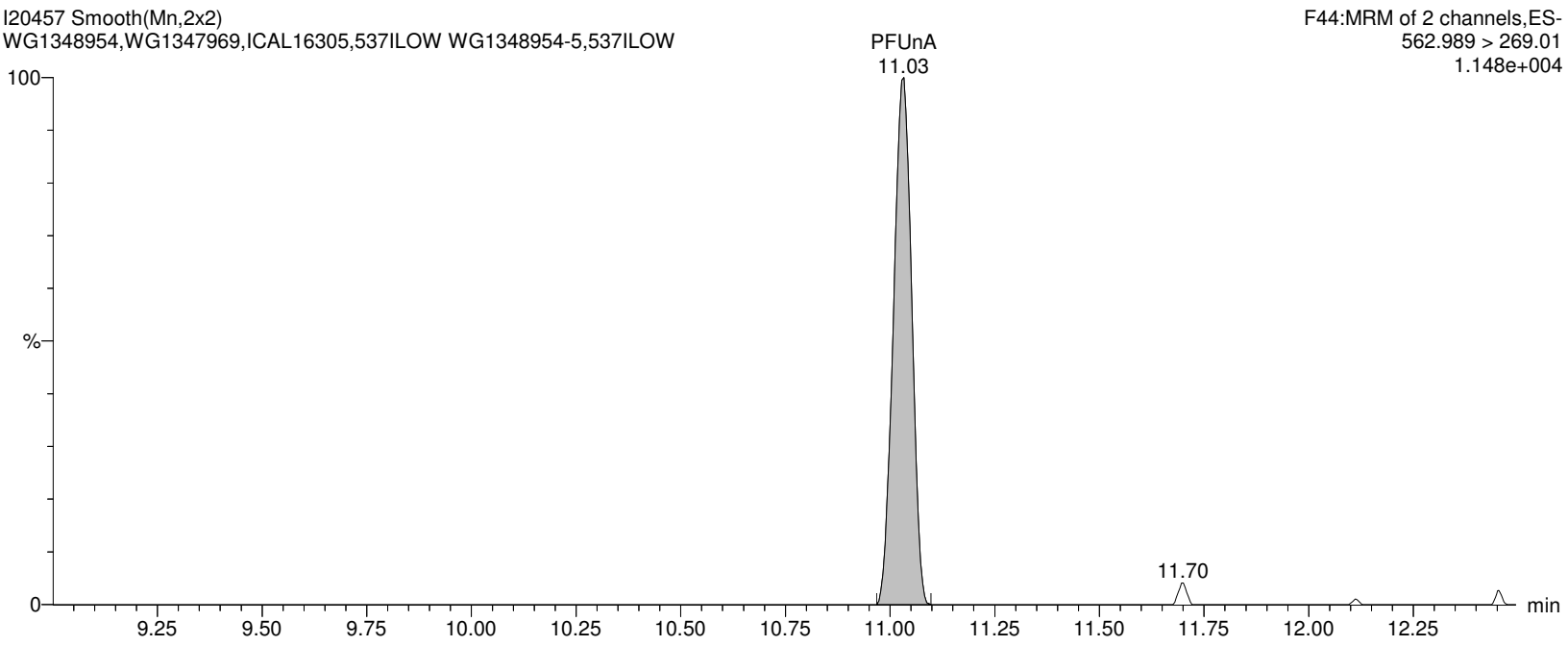

all concentration units in (ng/mL)

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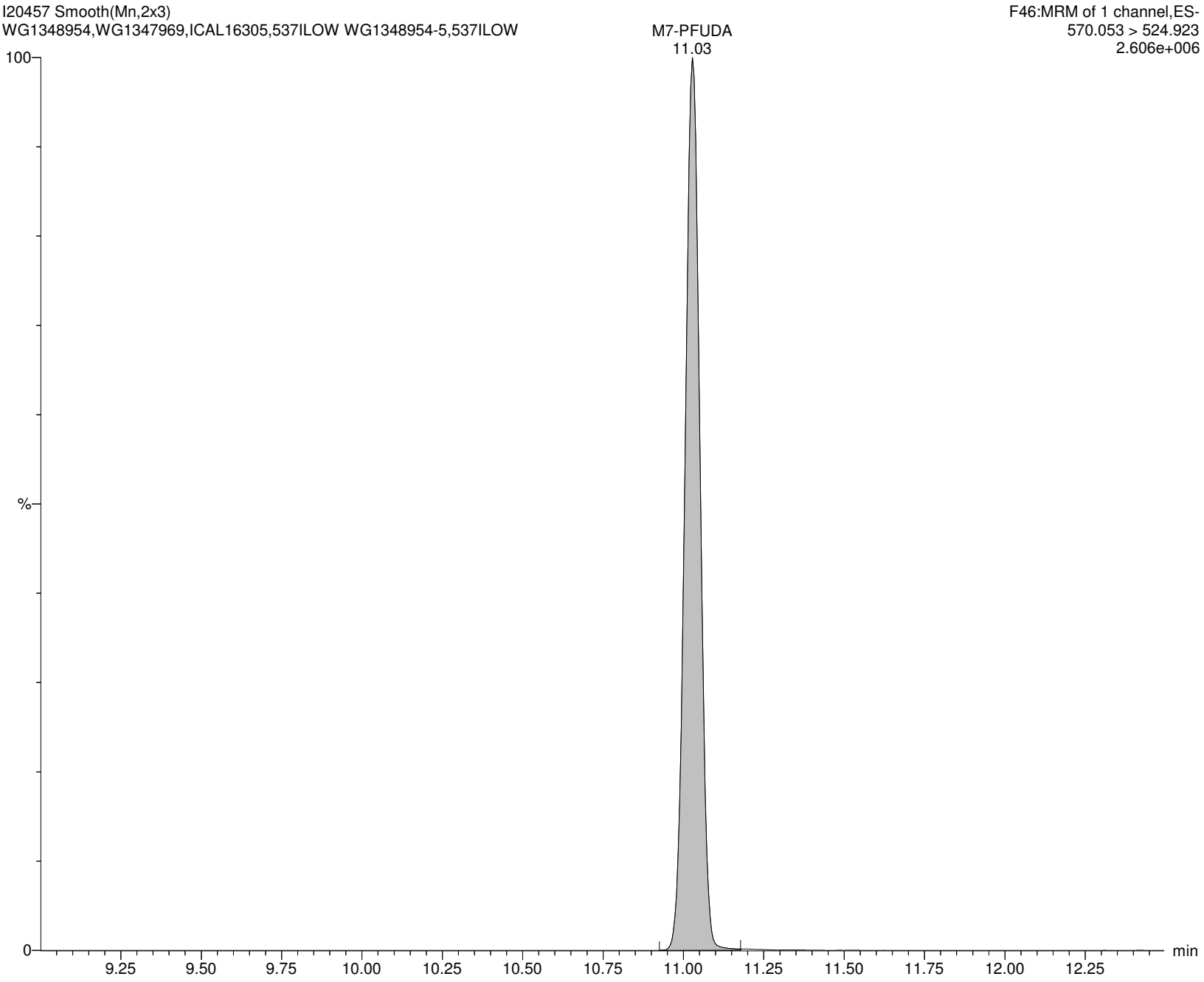

all concentration units in (ng/mL)

Alpha Analytical Inc.
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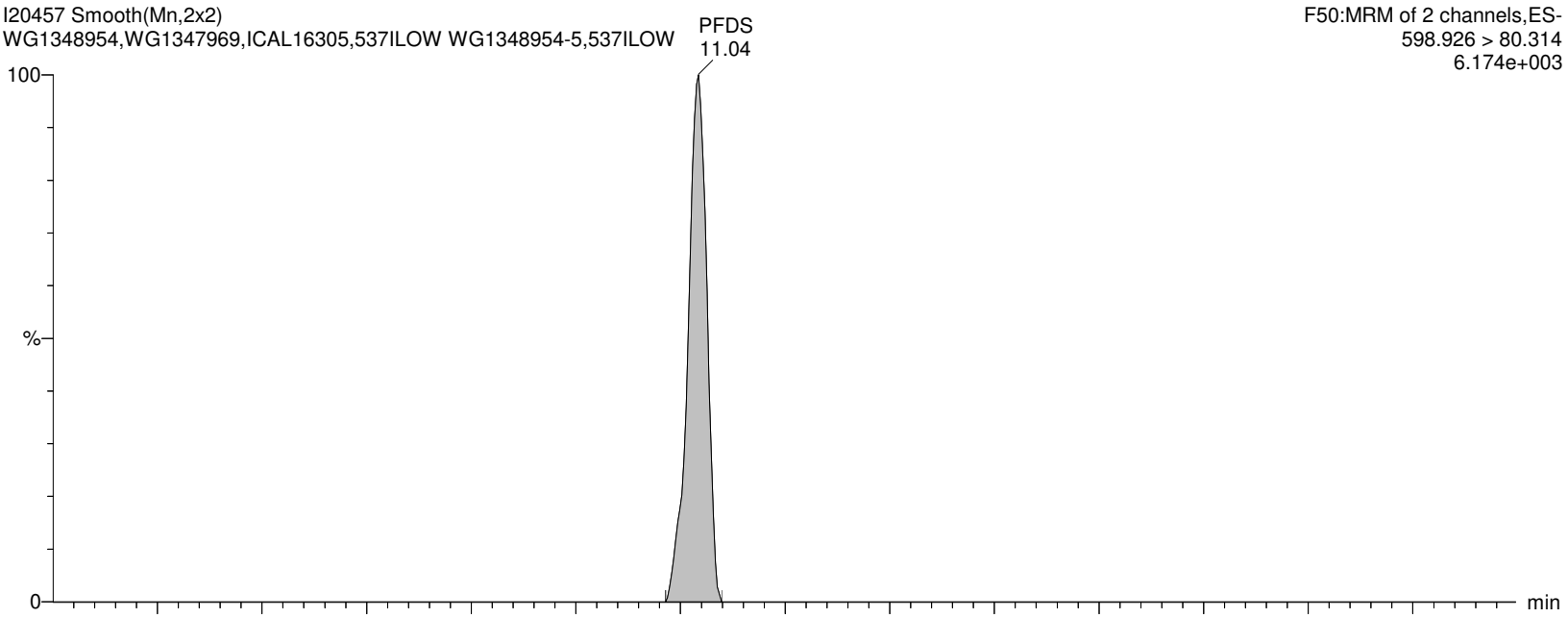

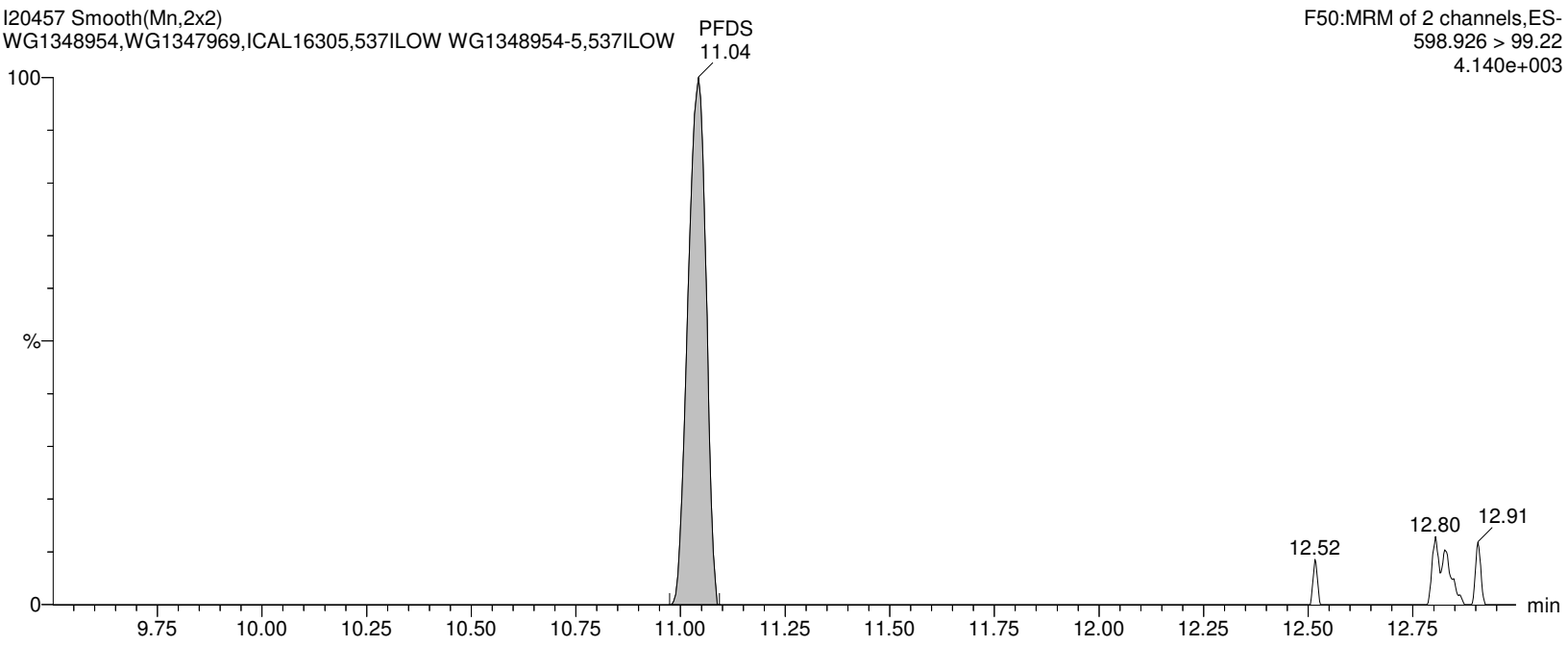

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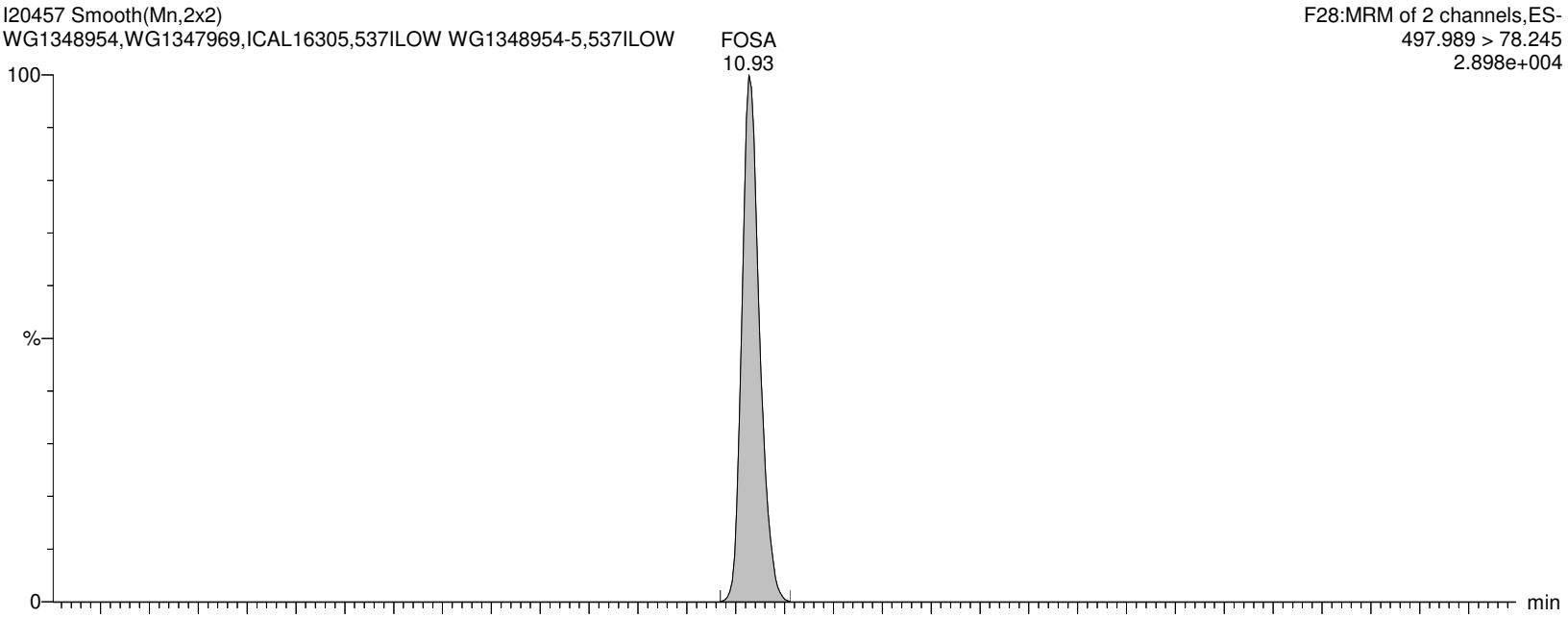

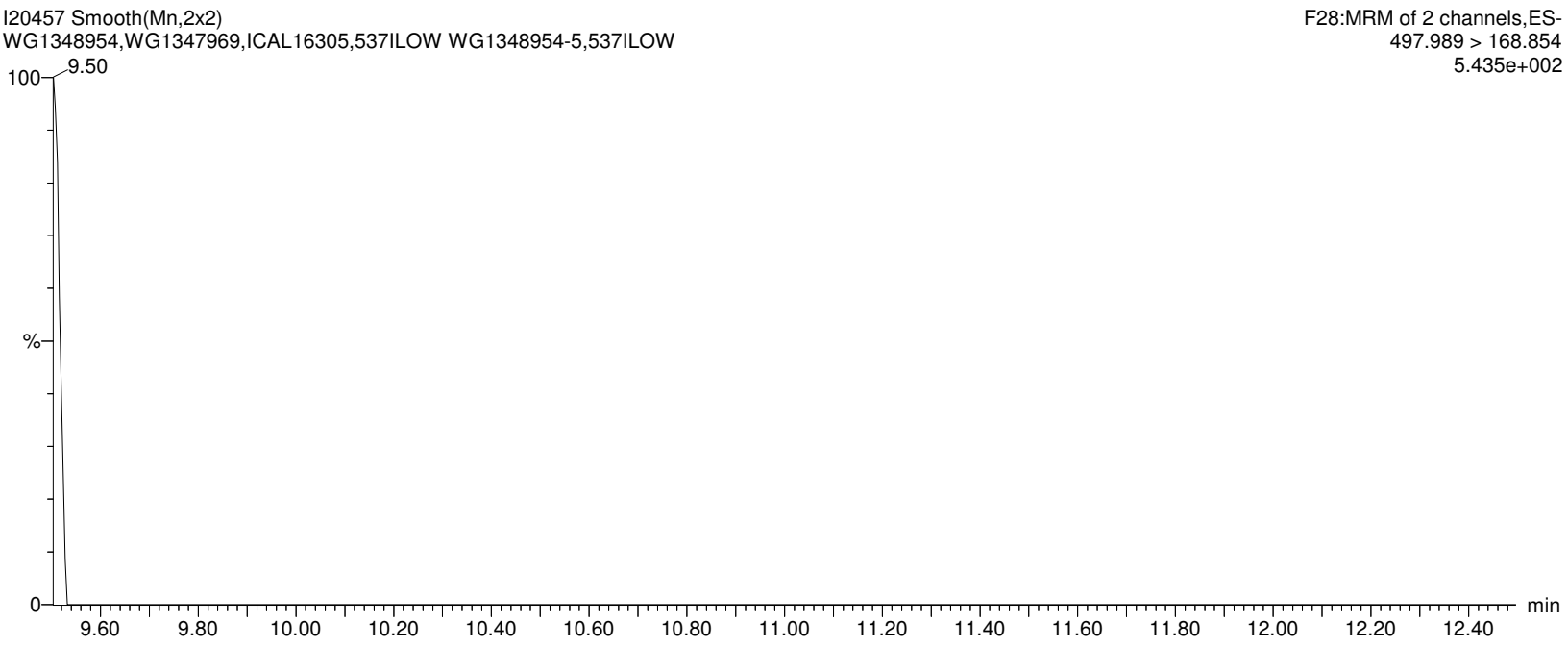

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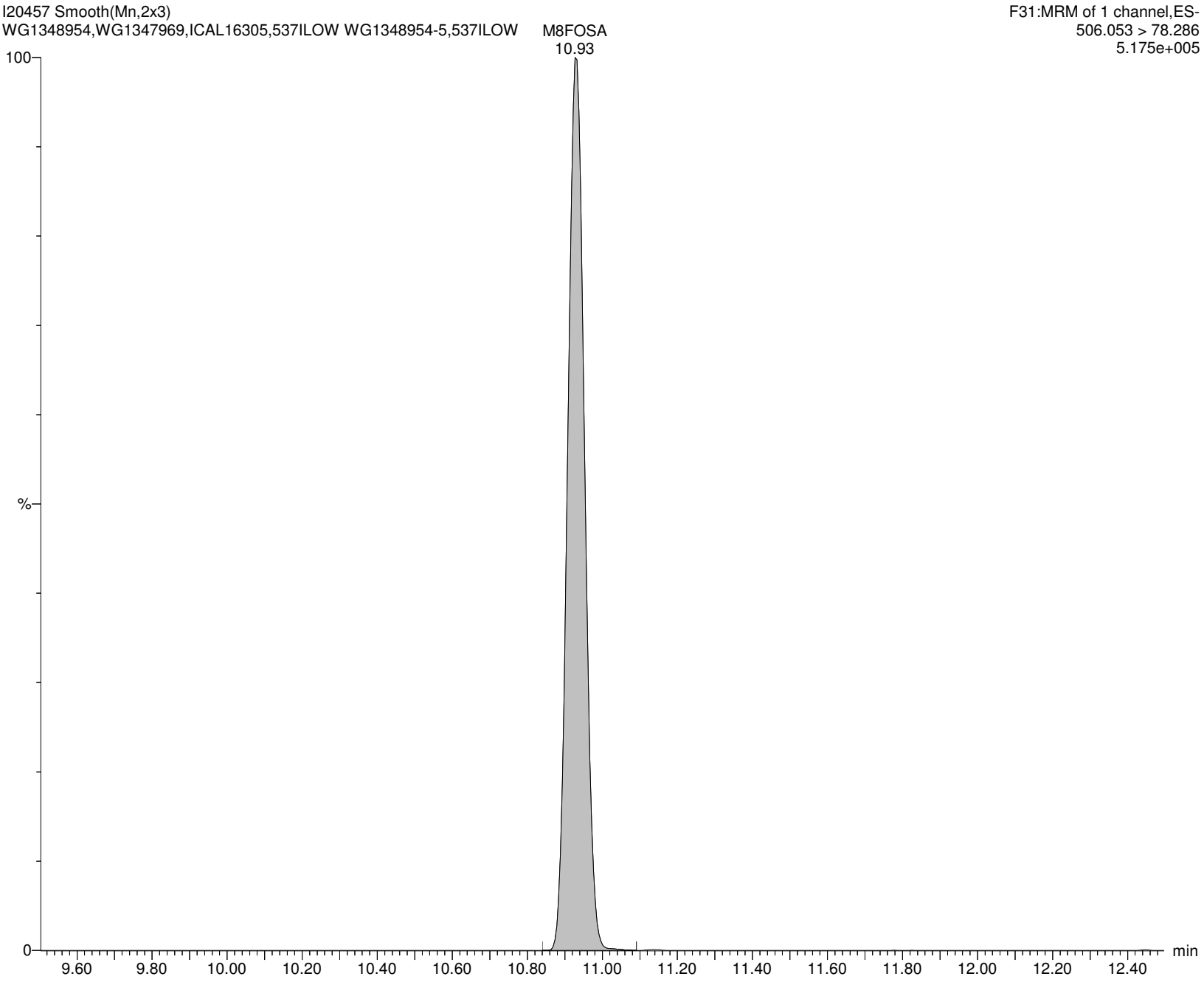

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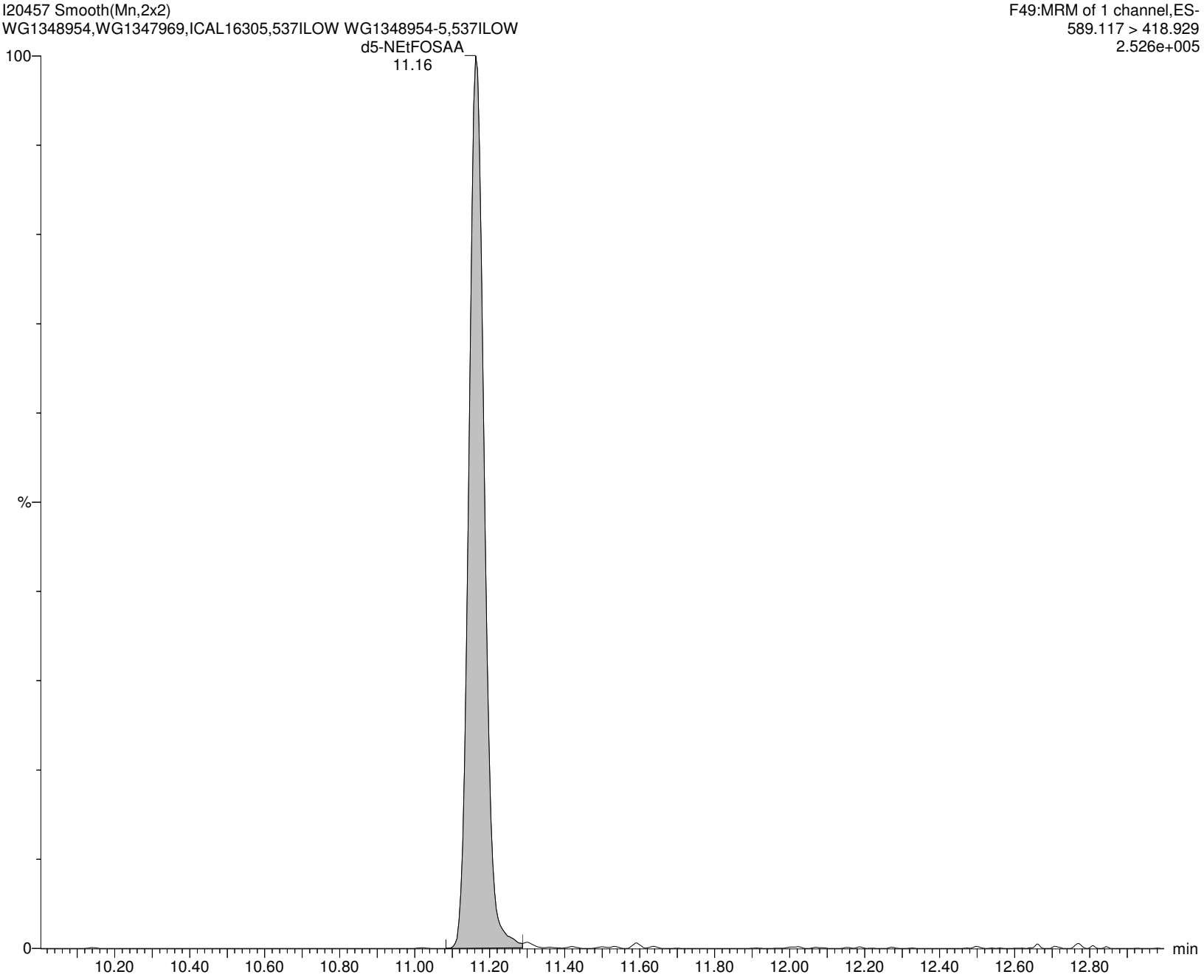
d5-NEtFOSAA



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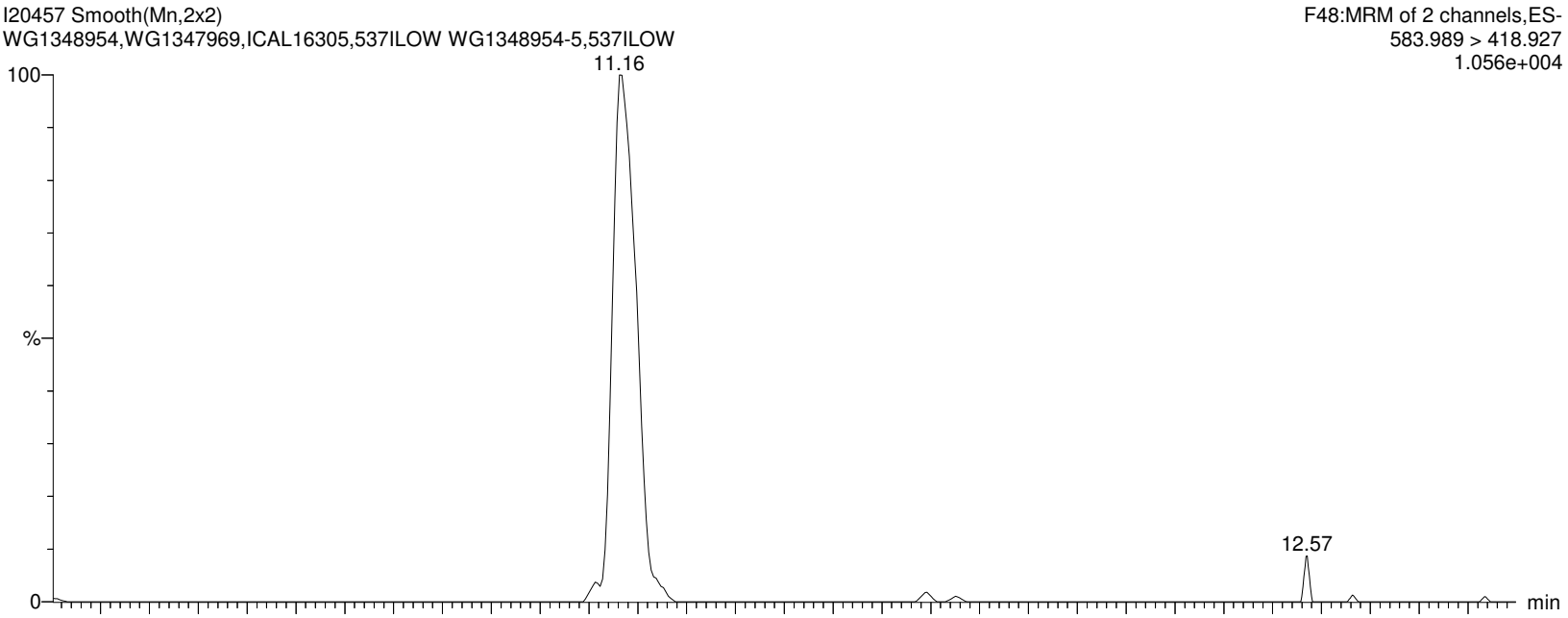

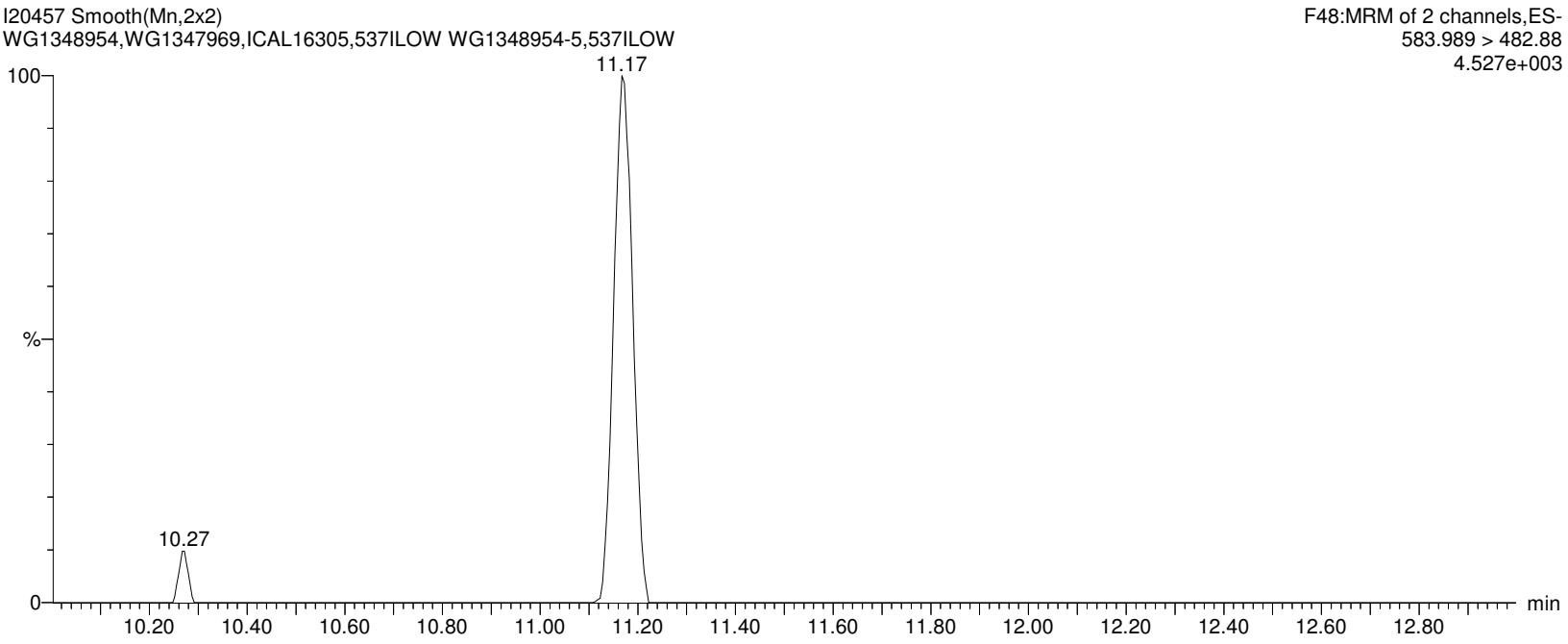

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:43 Eastern Daylight Time

Name: I20457
ID: WG1348954-5,537ILOW
Date: 11-Mar-2020
Time: 03:27:13
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
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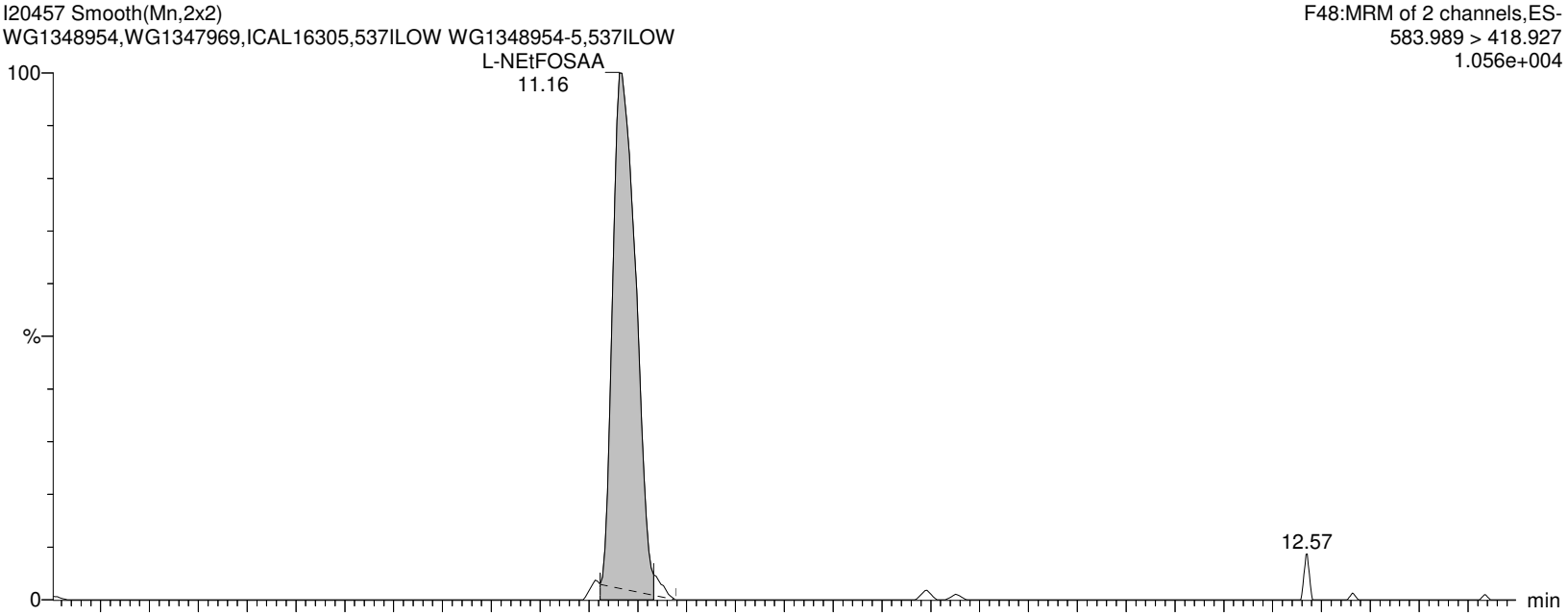

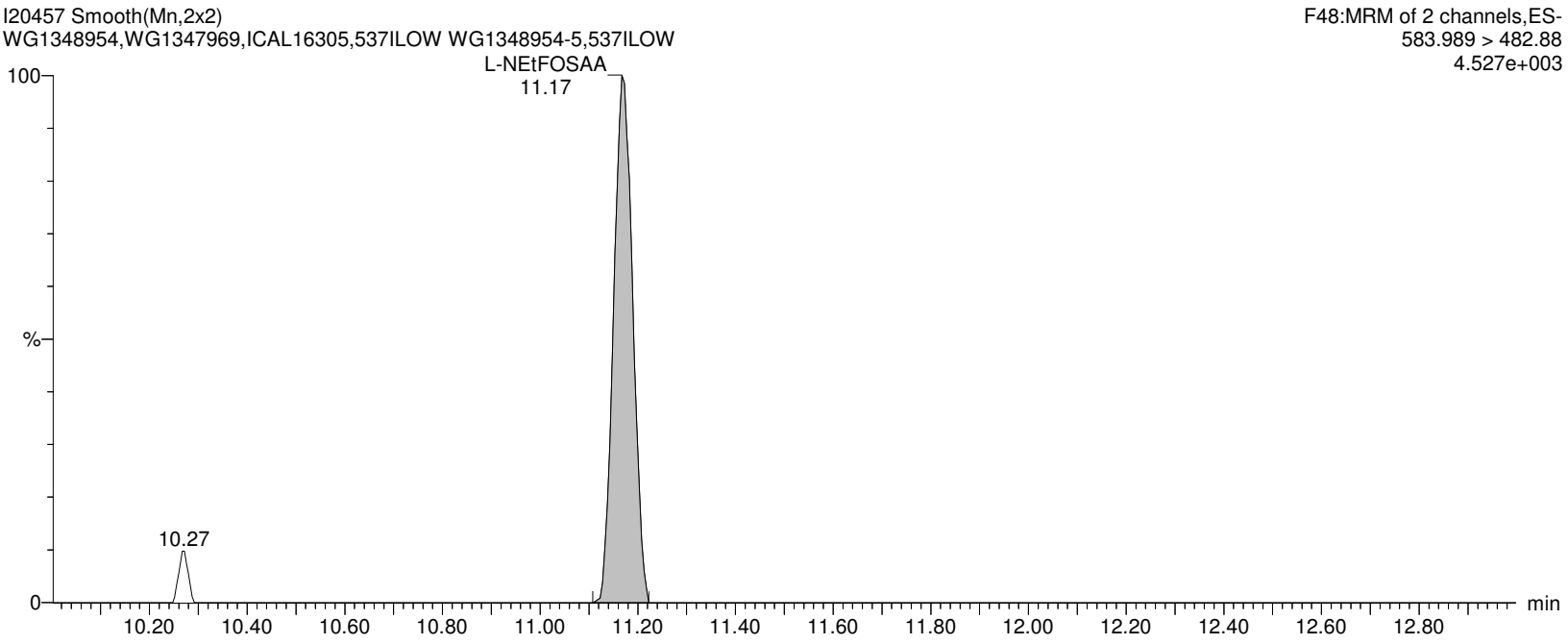

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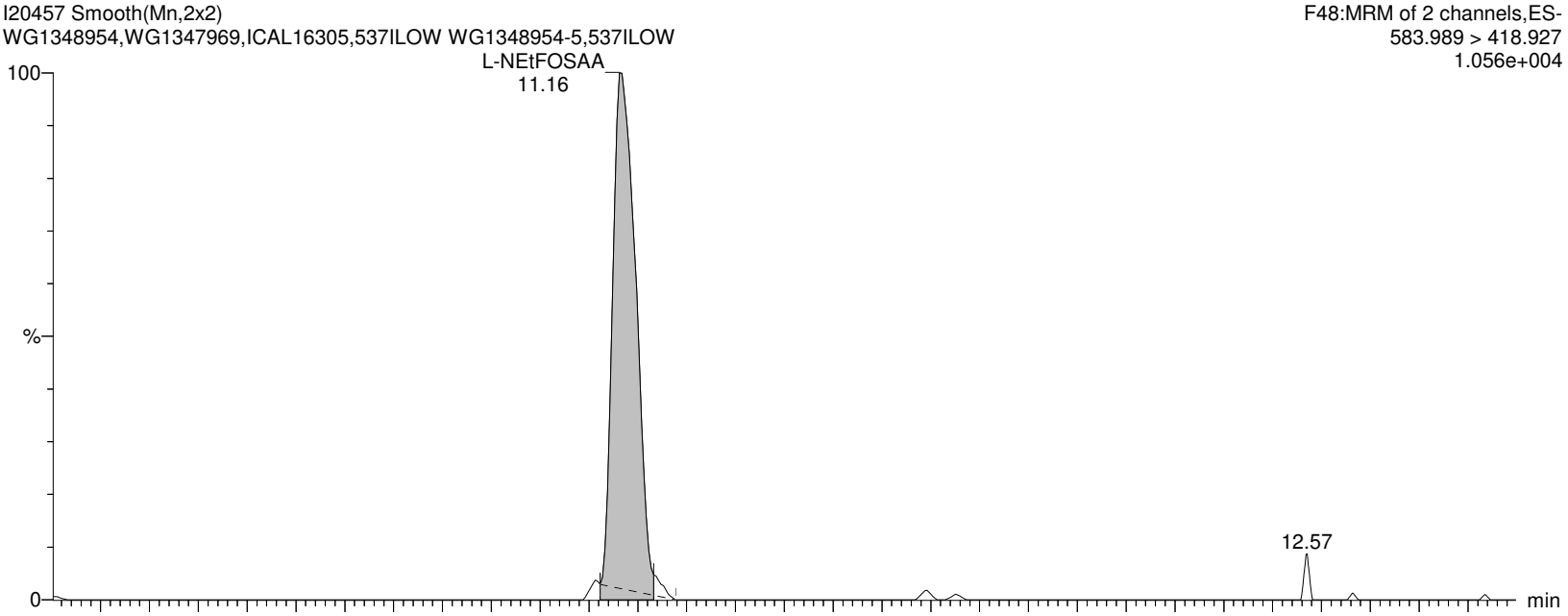

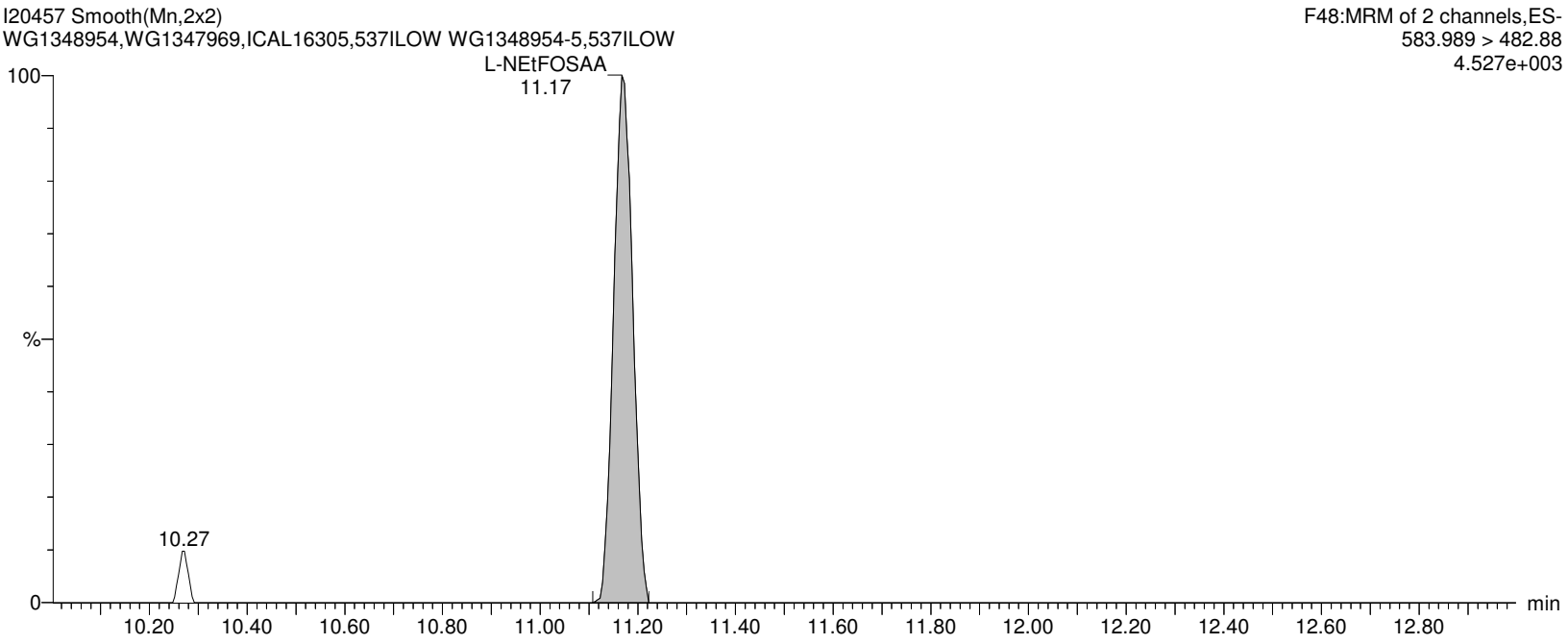

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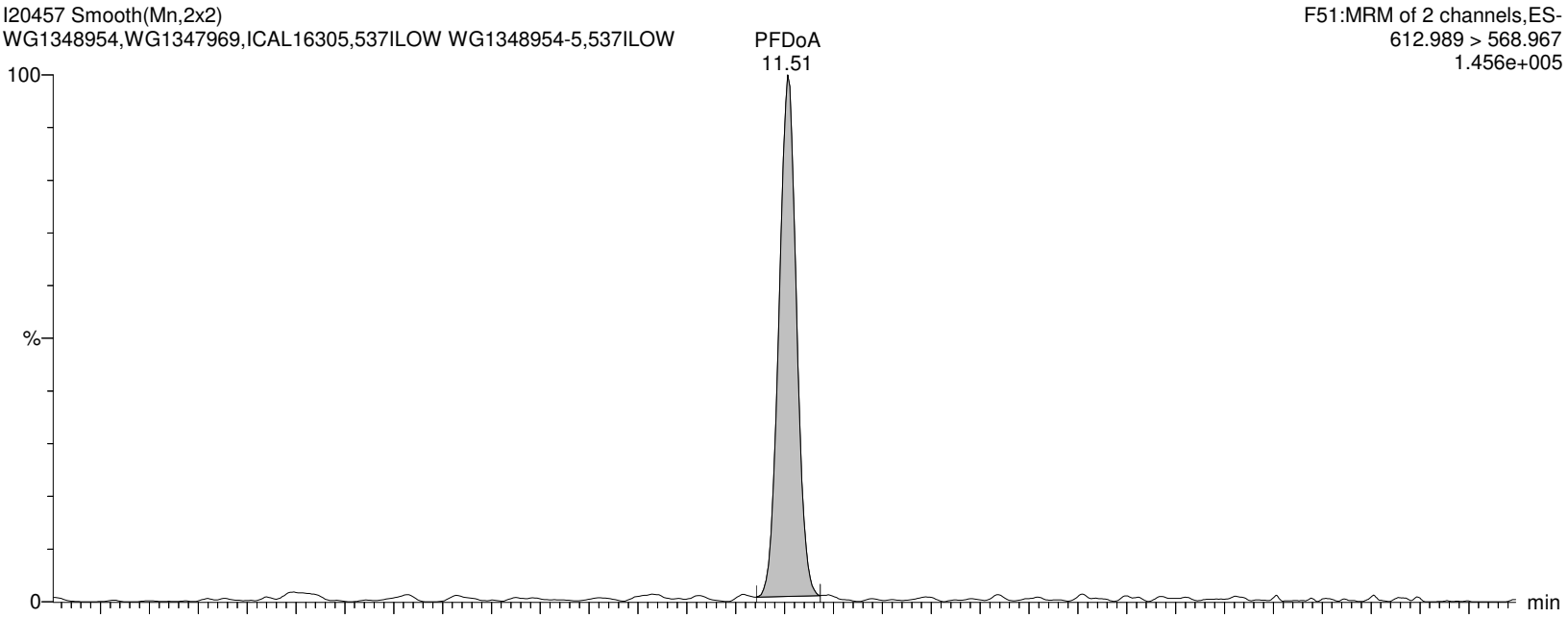

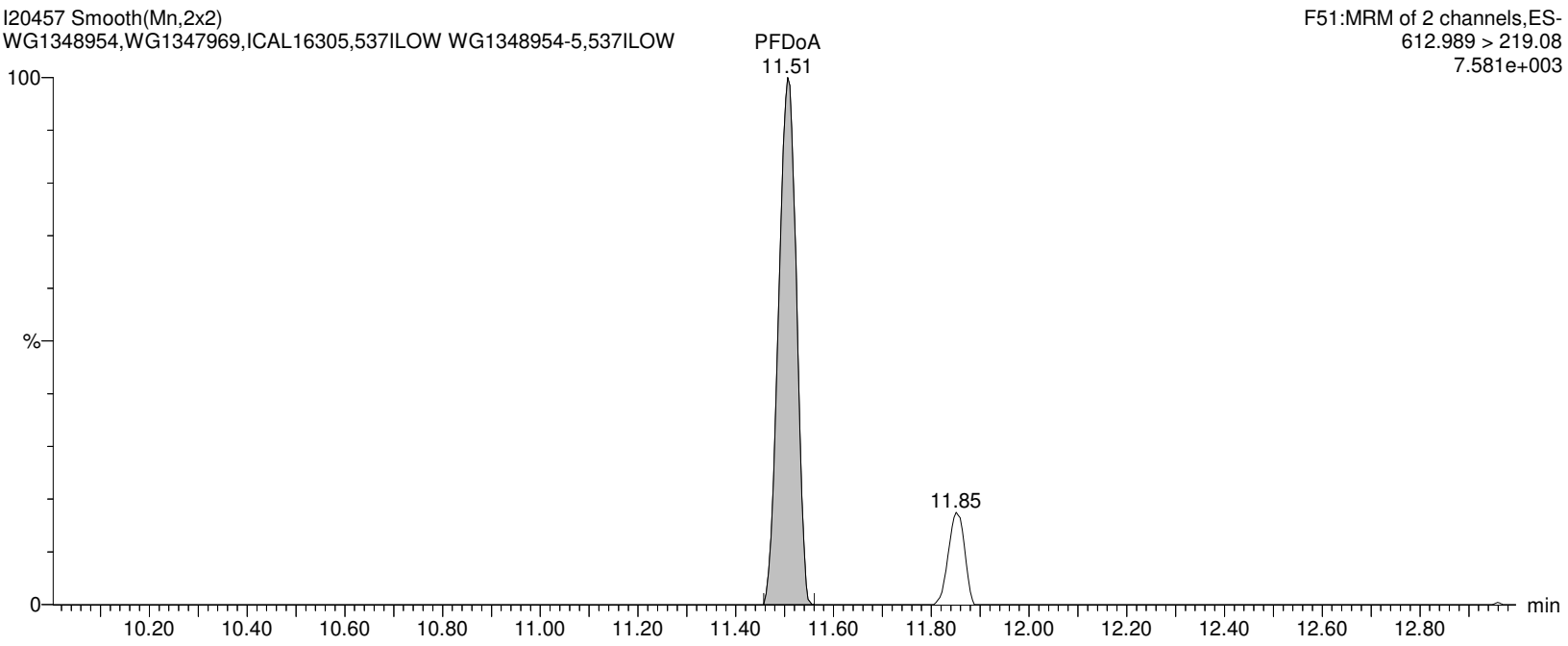

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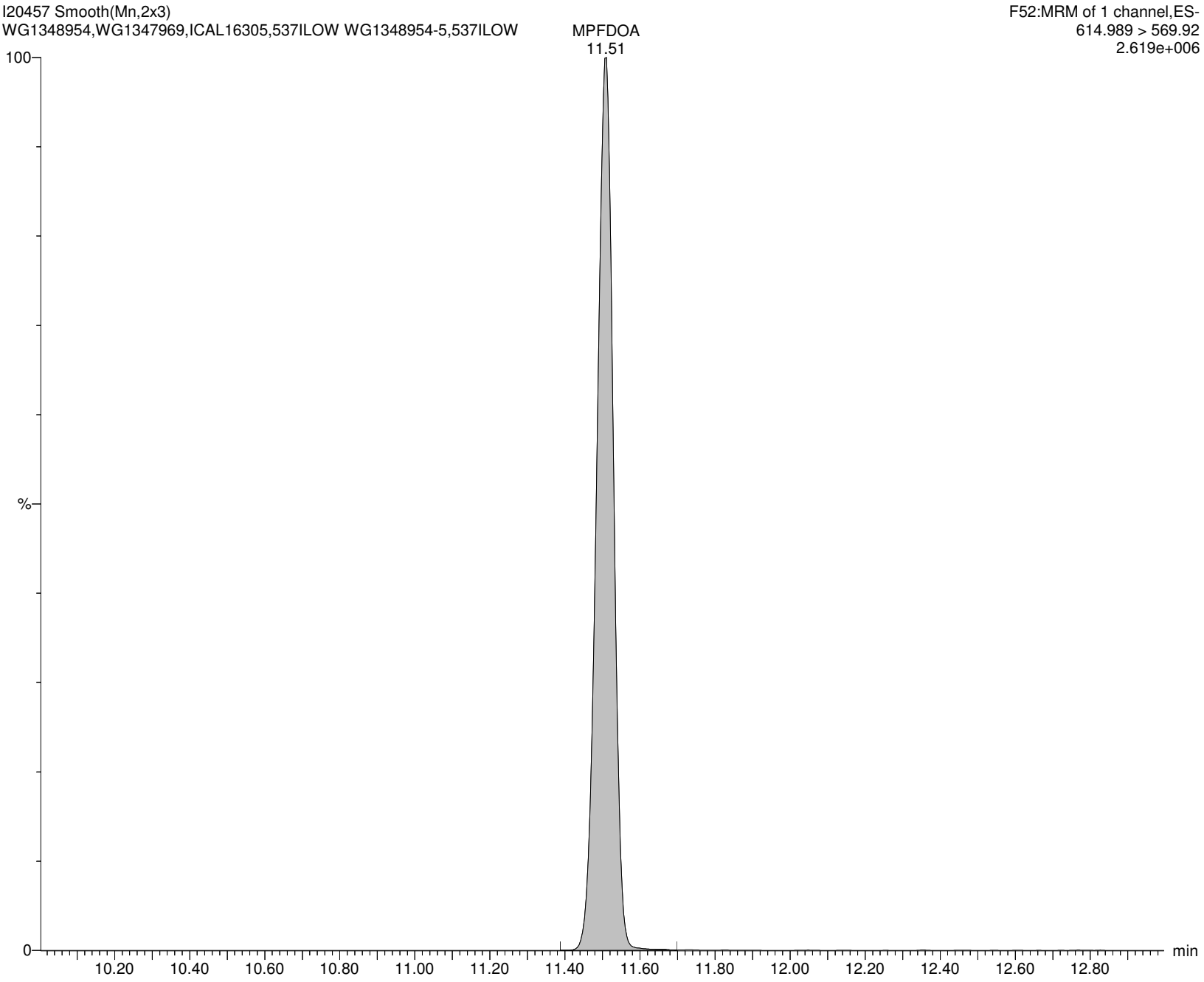

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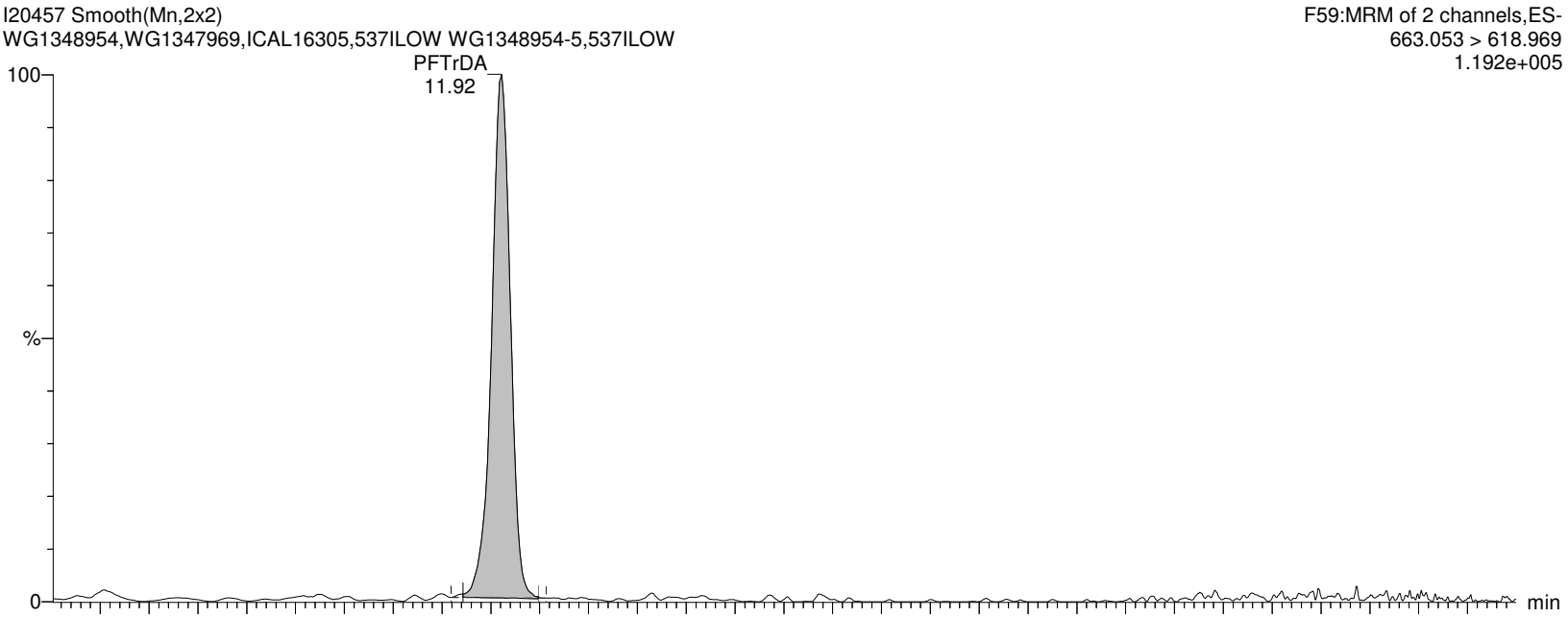

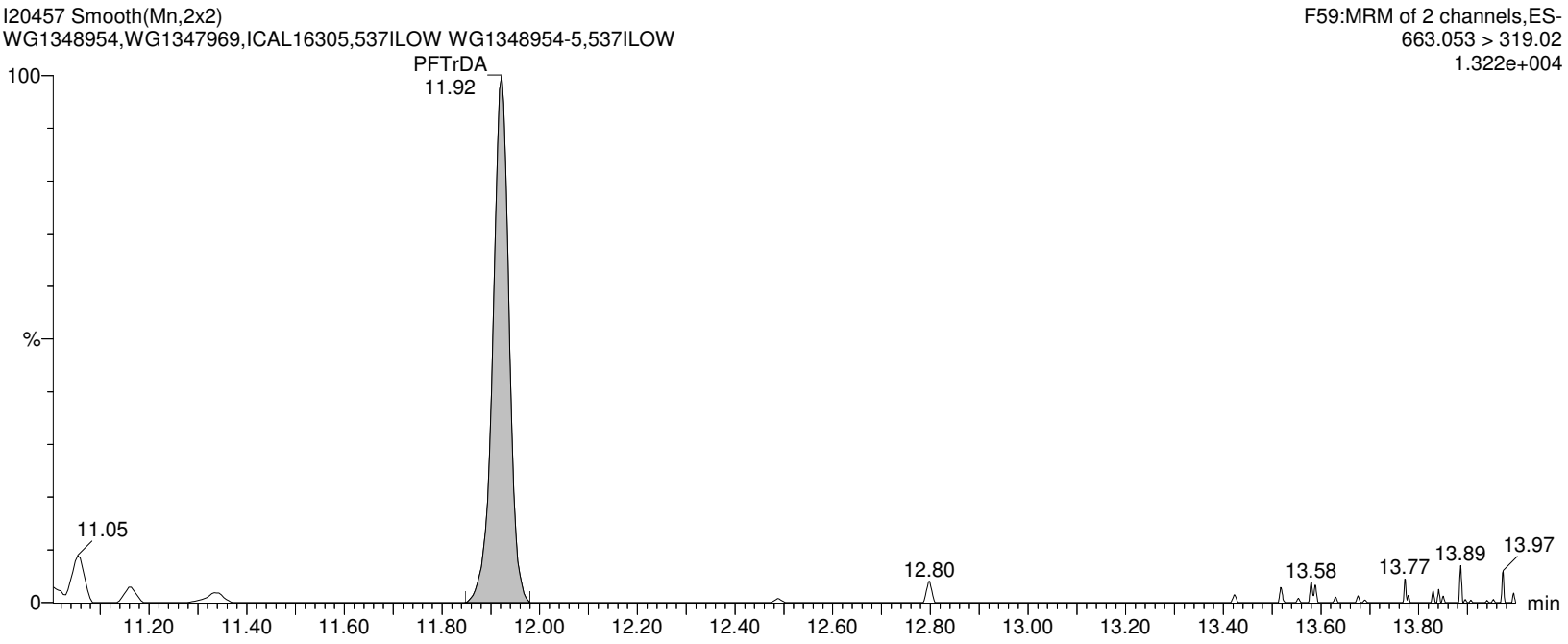

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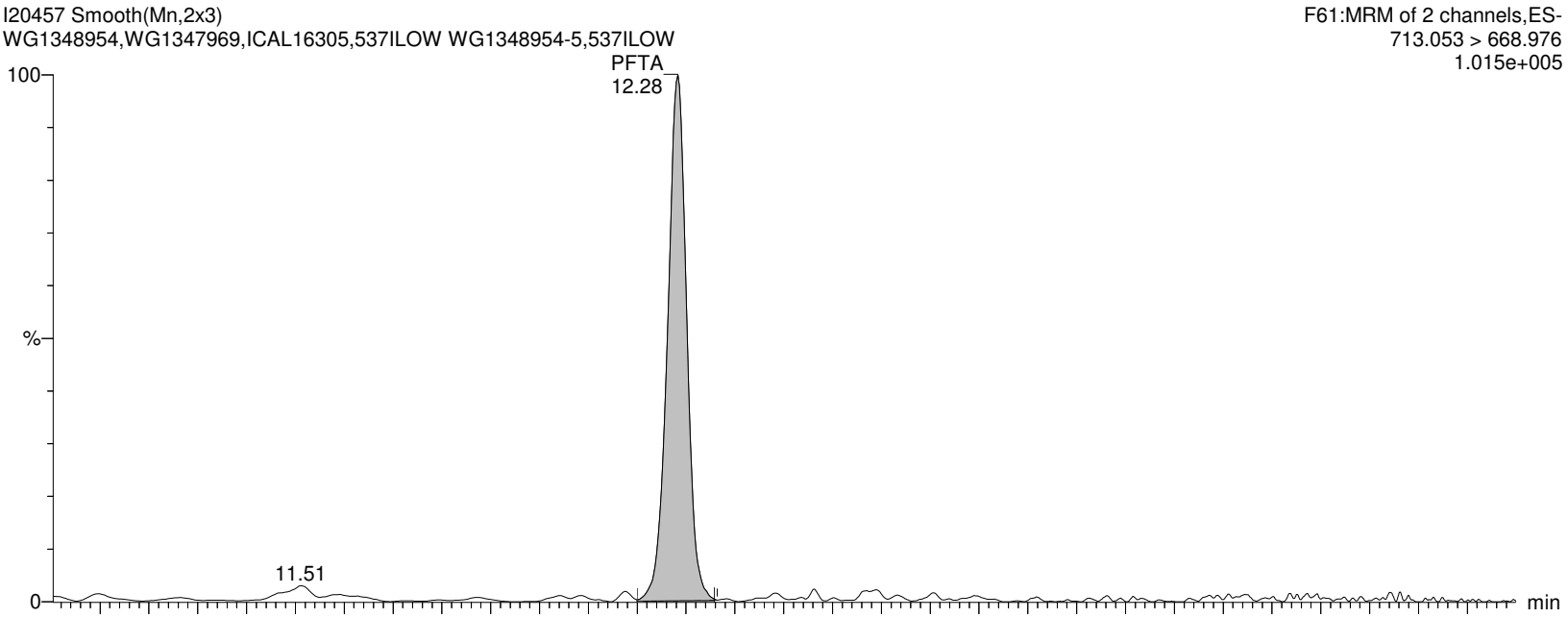

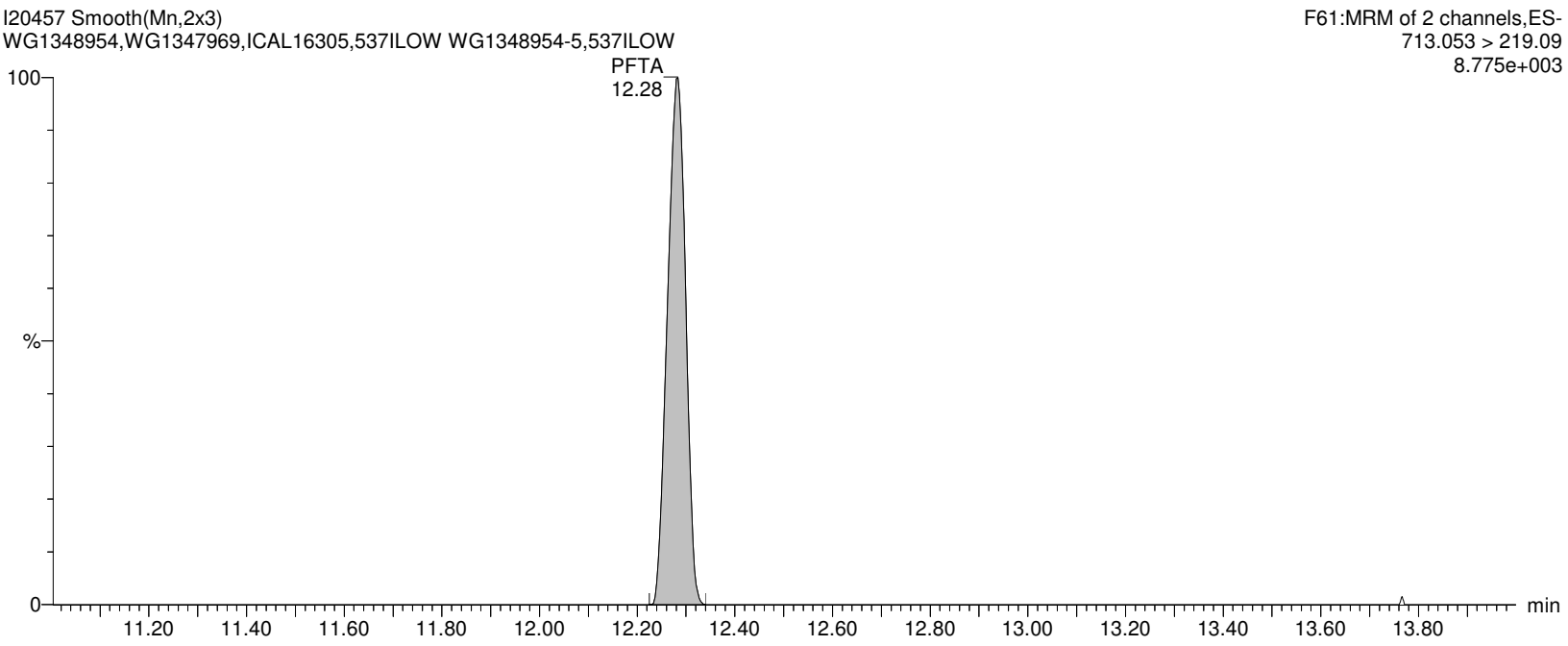

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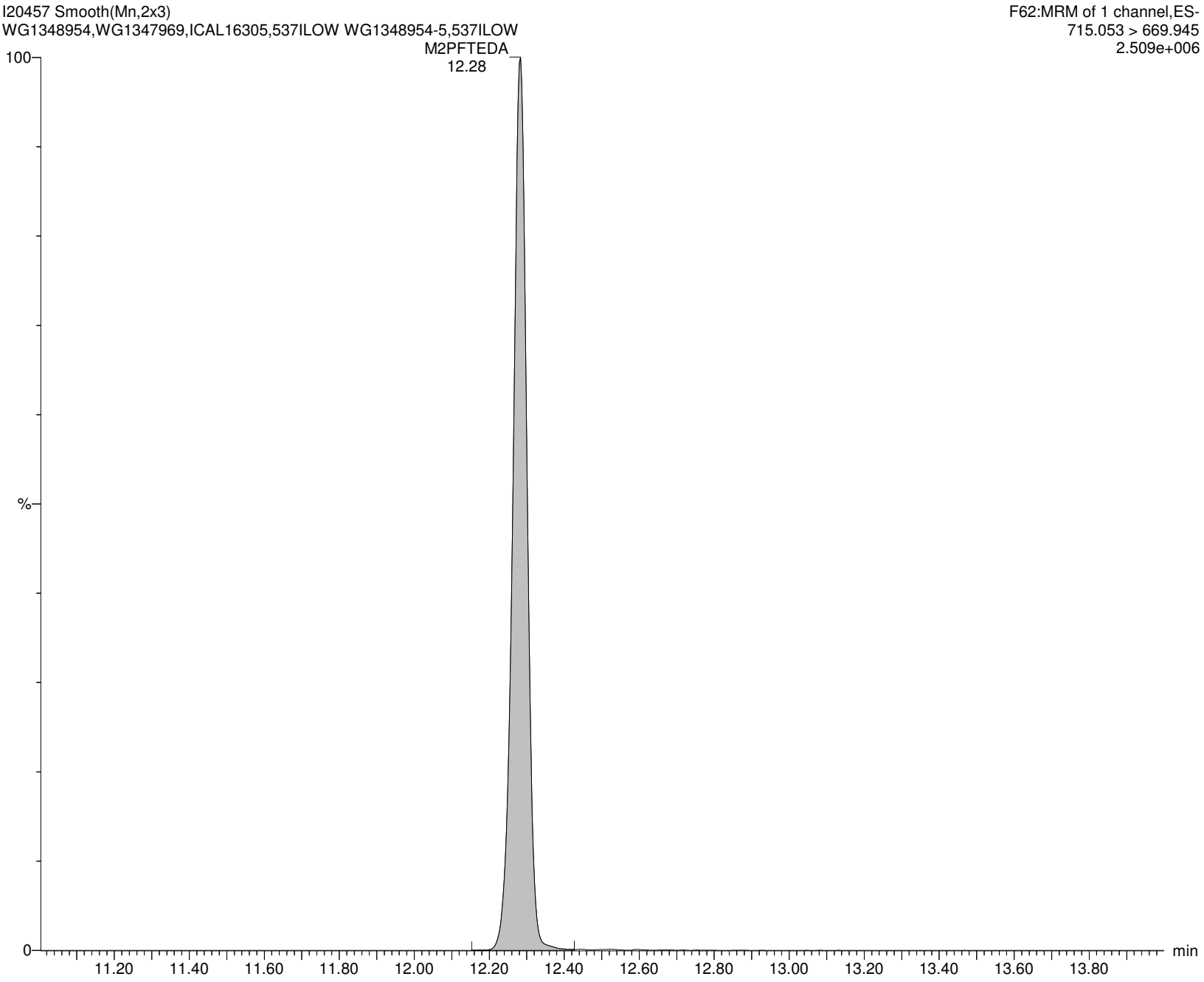

all concentration units in (ng/mL)

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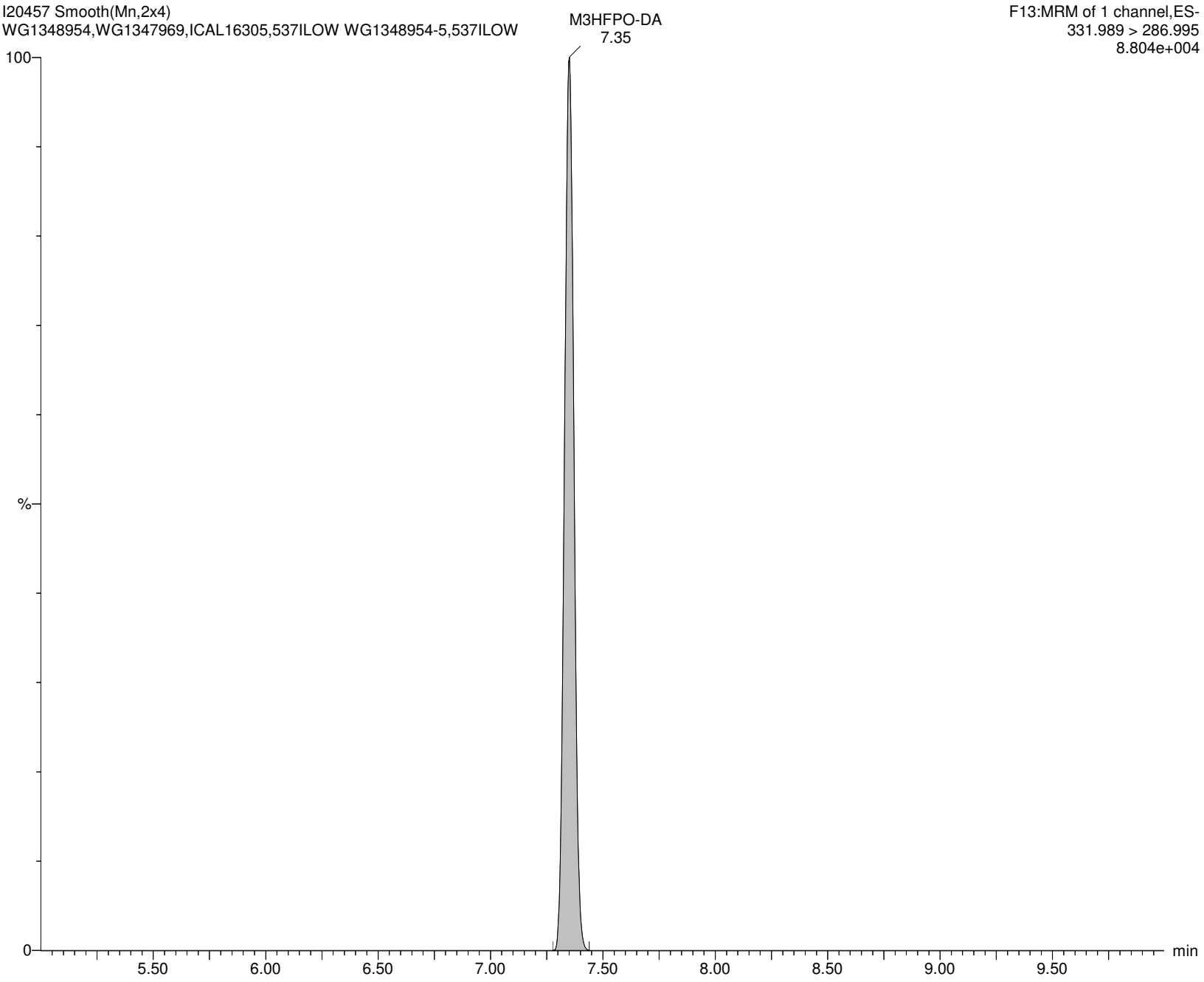

all concentration units in (ng/mL)

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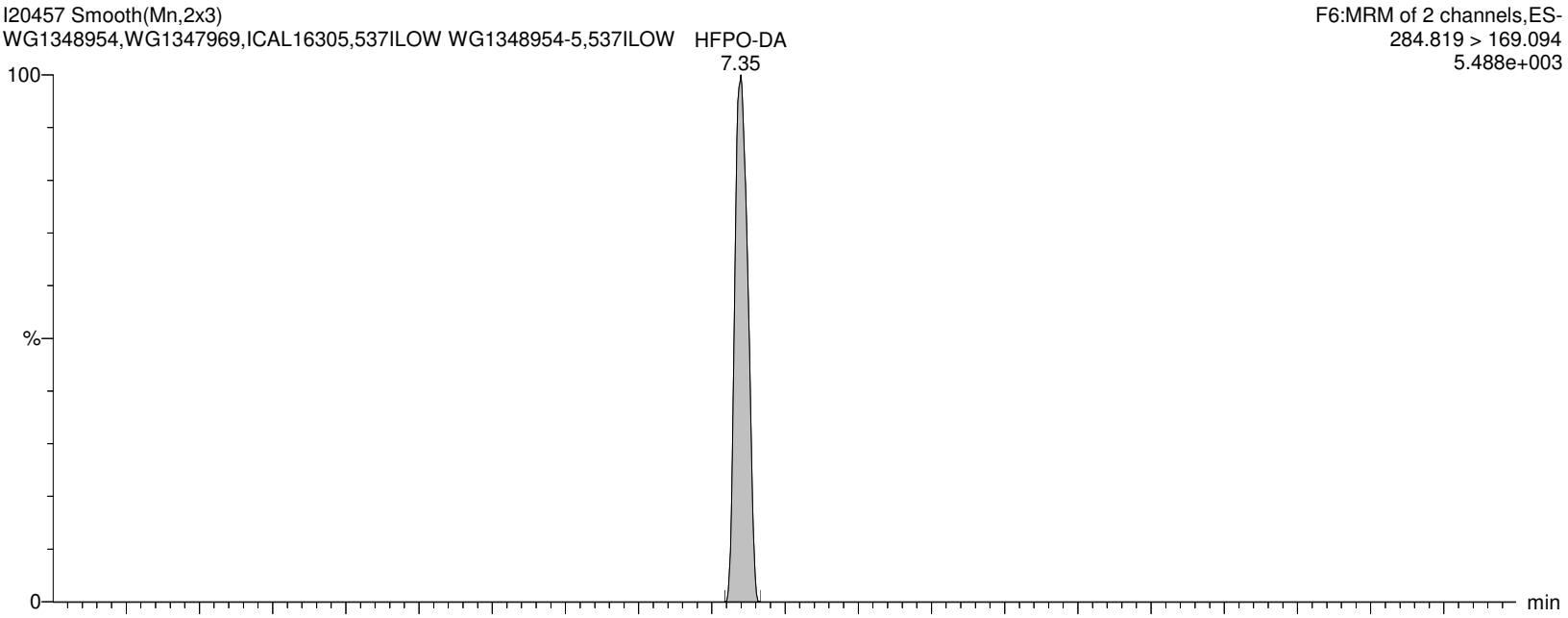

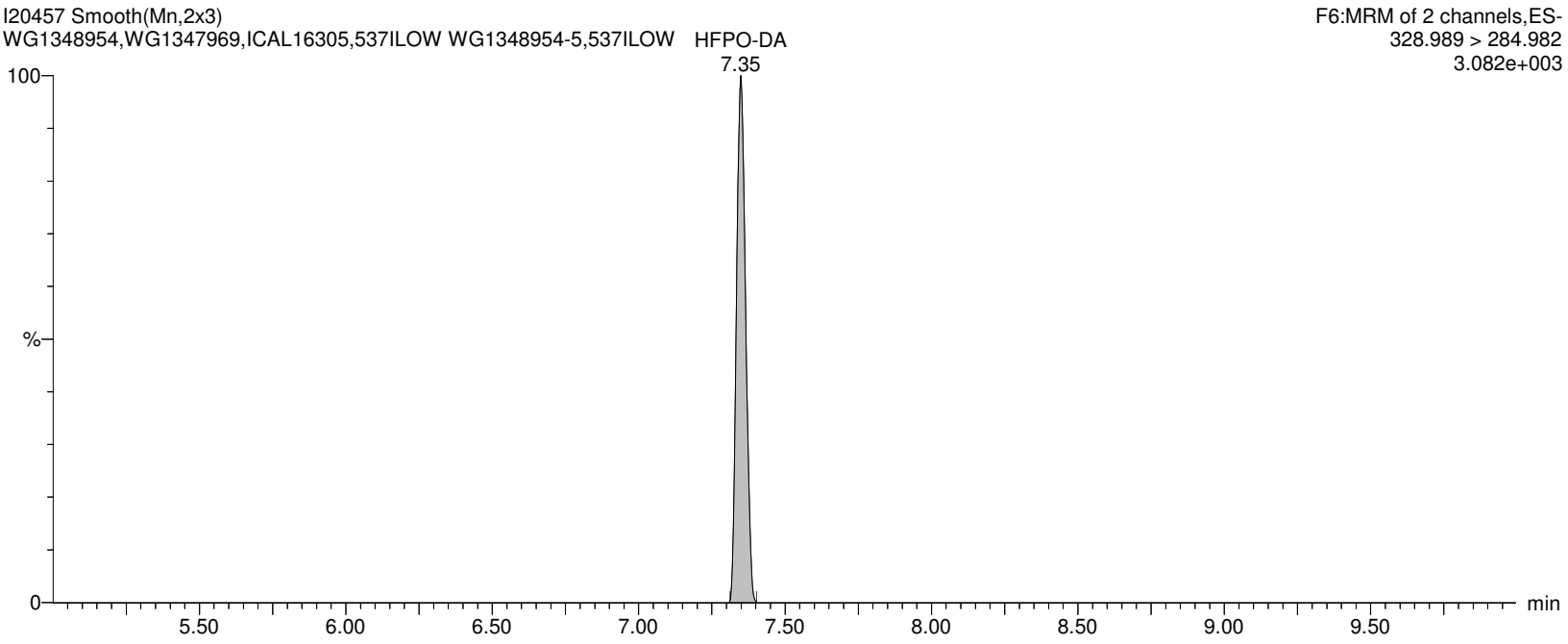

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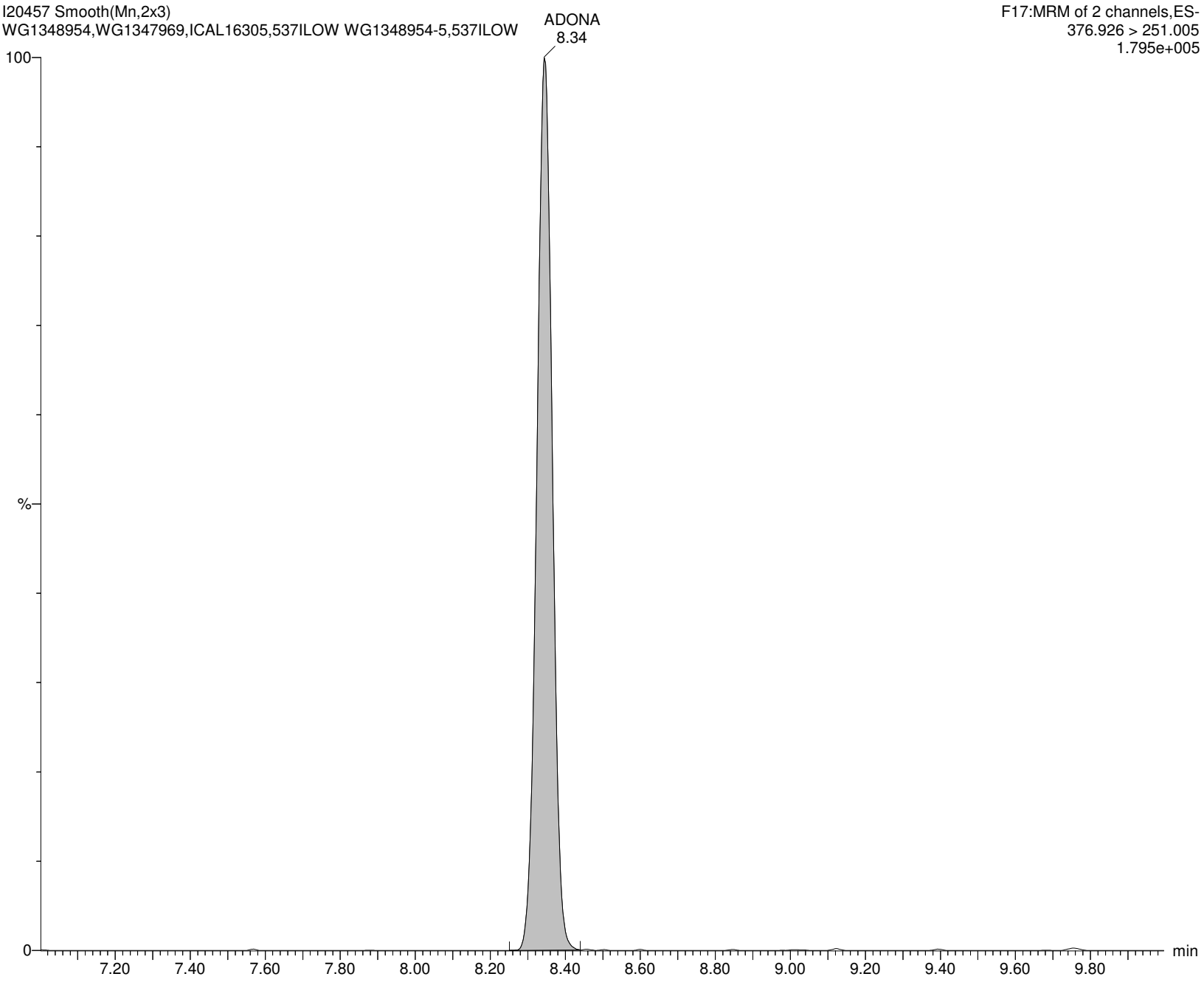

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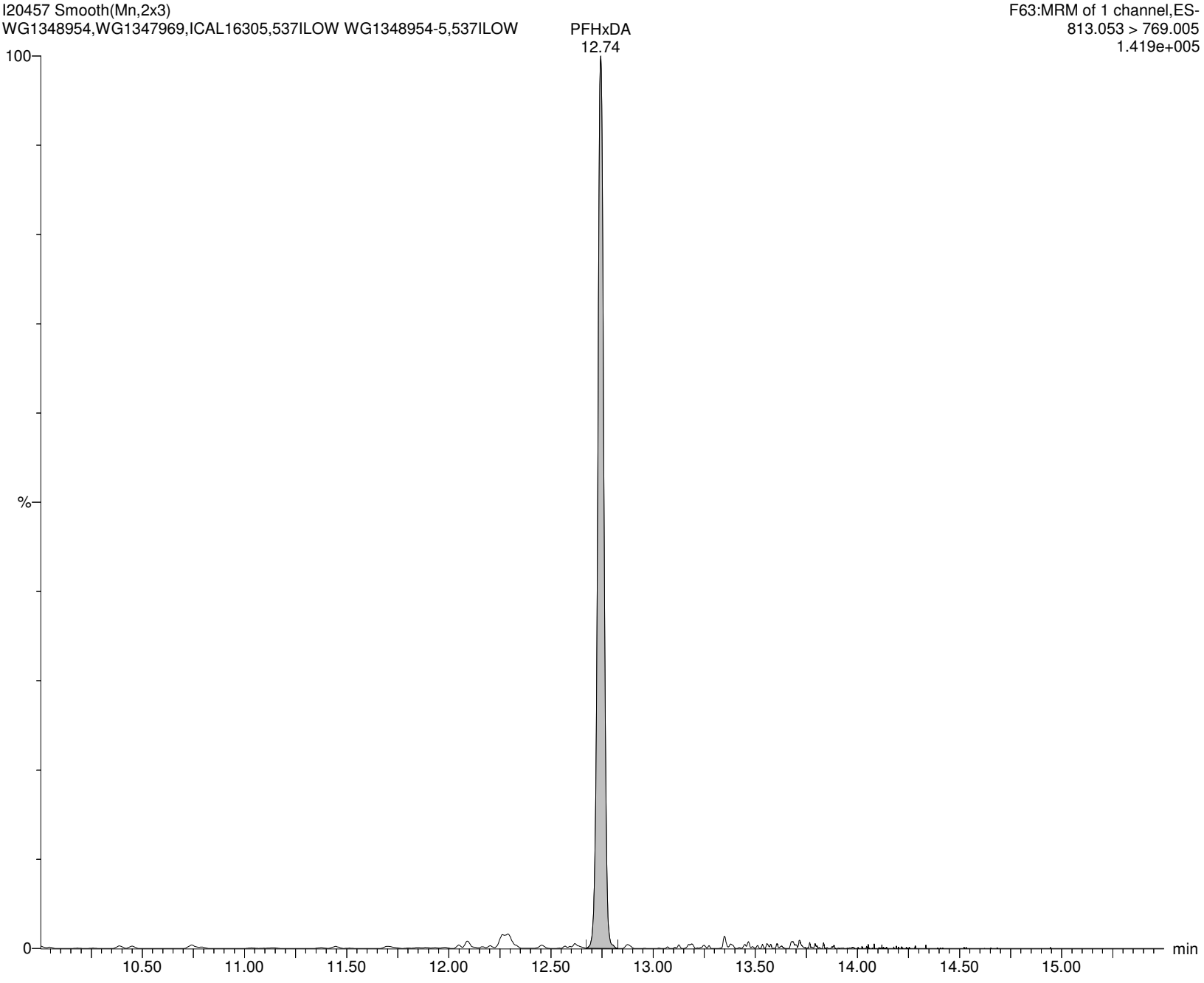

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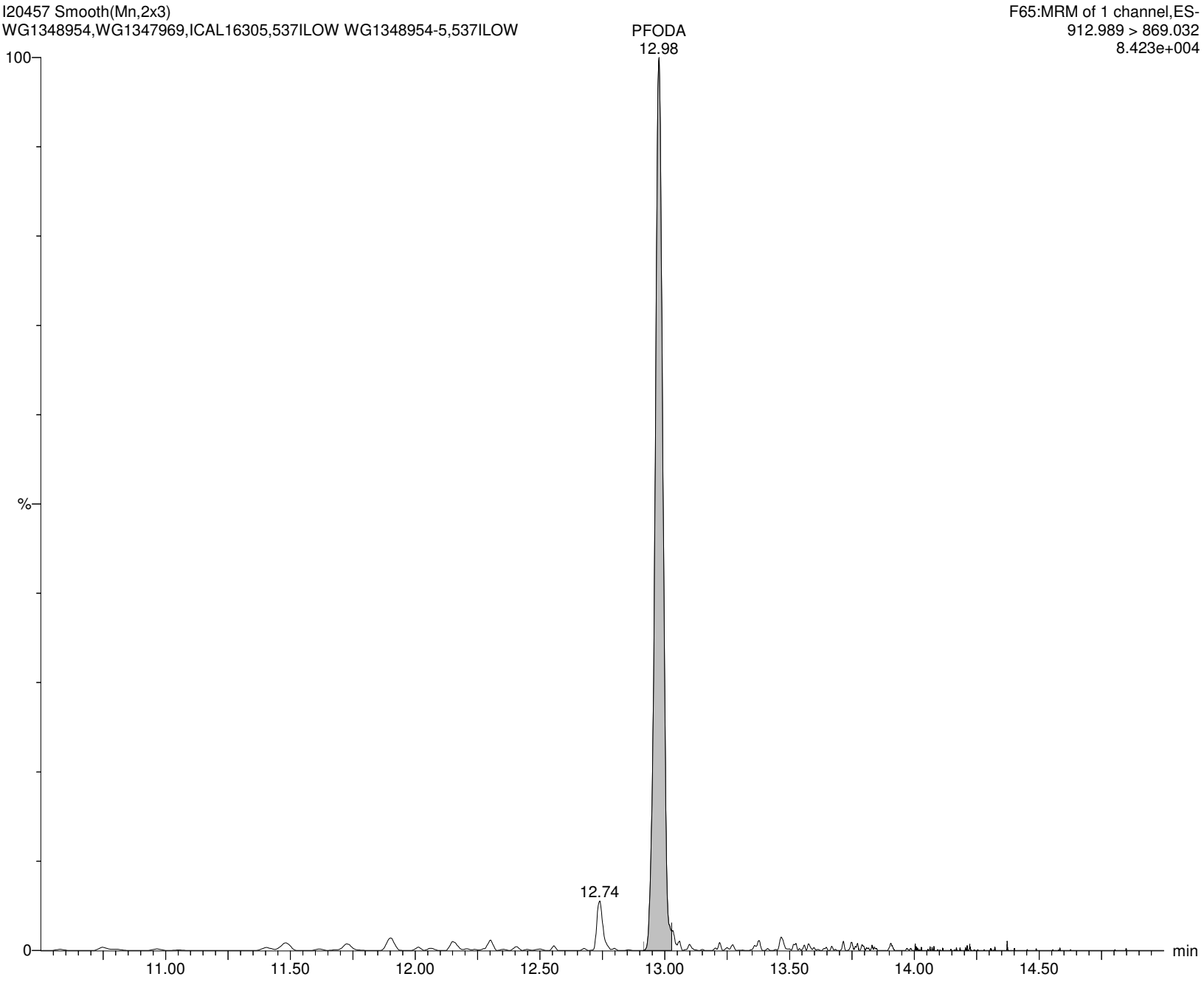

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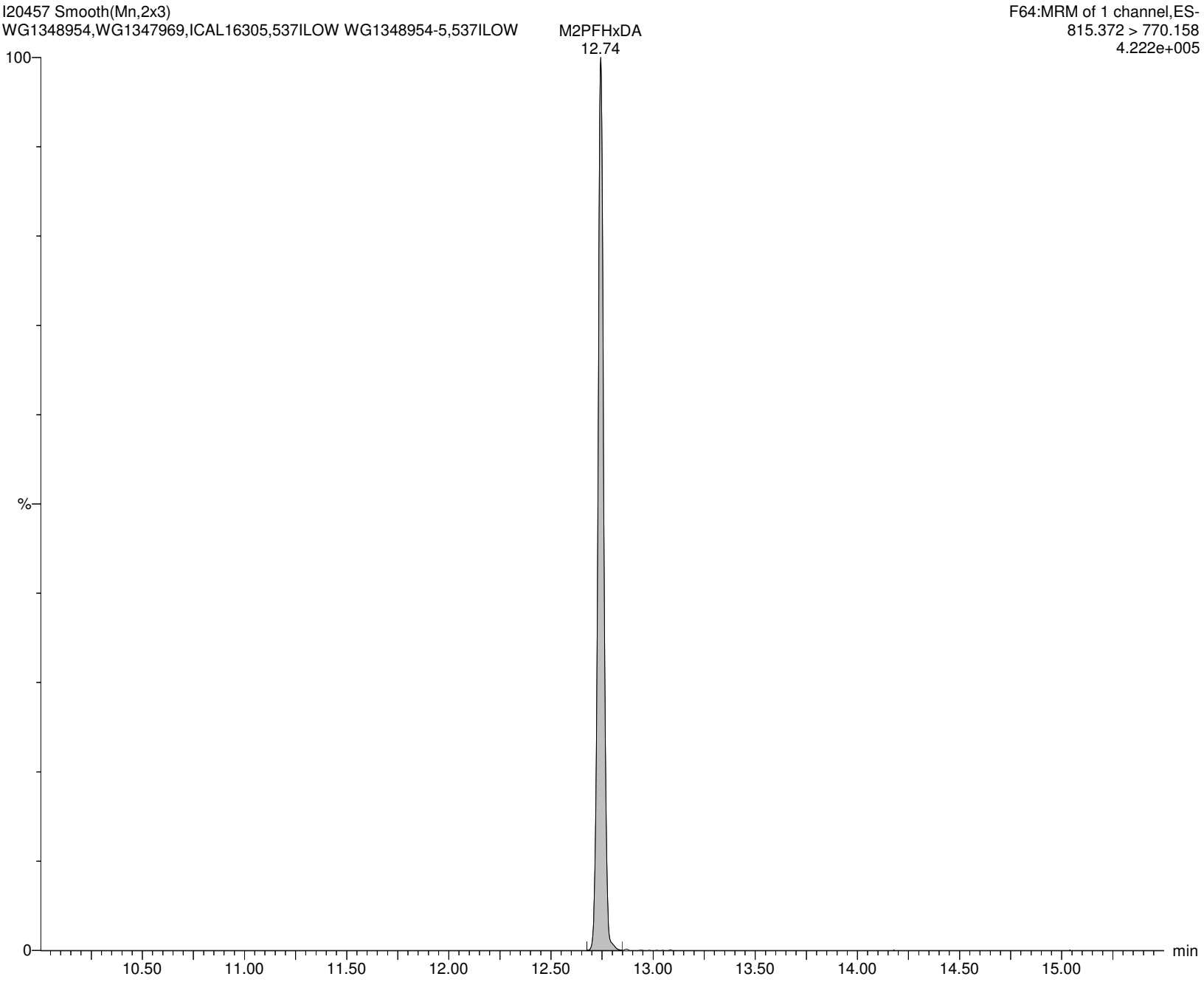

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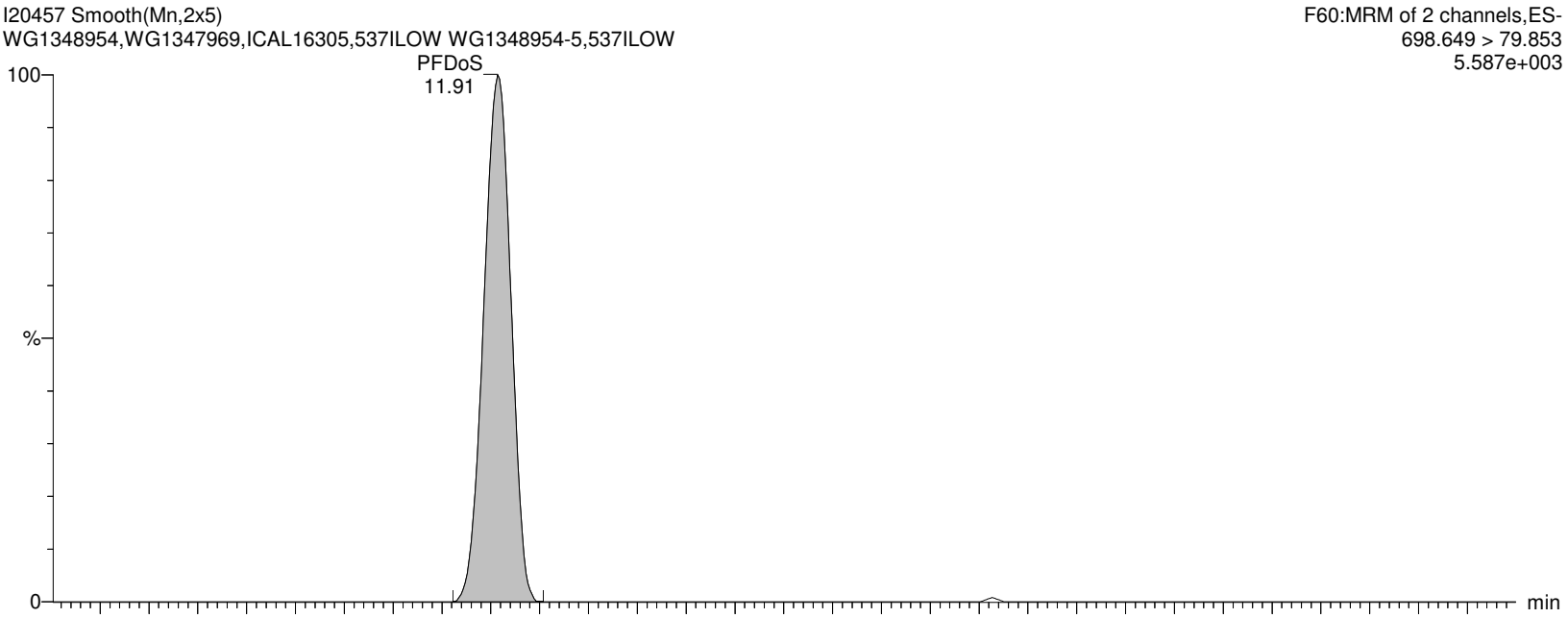

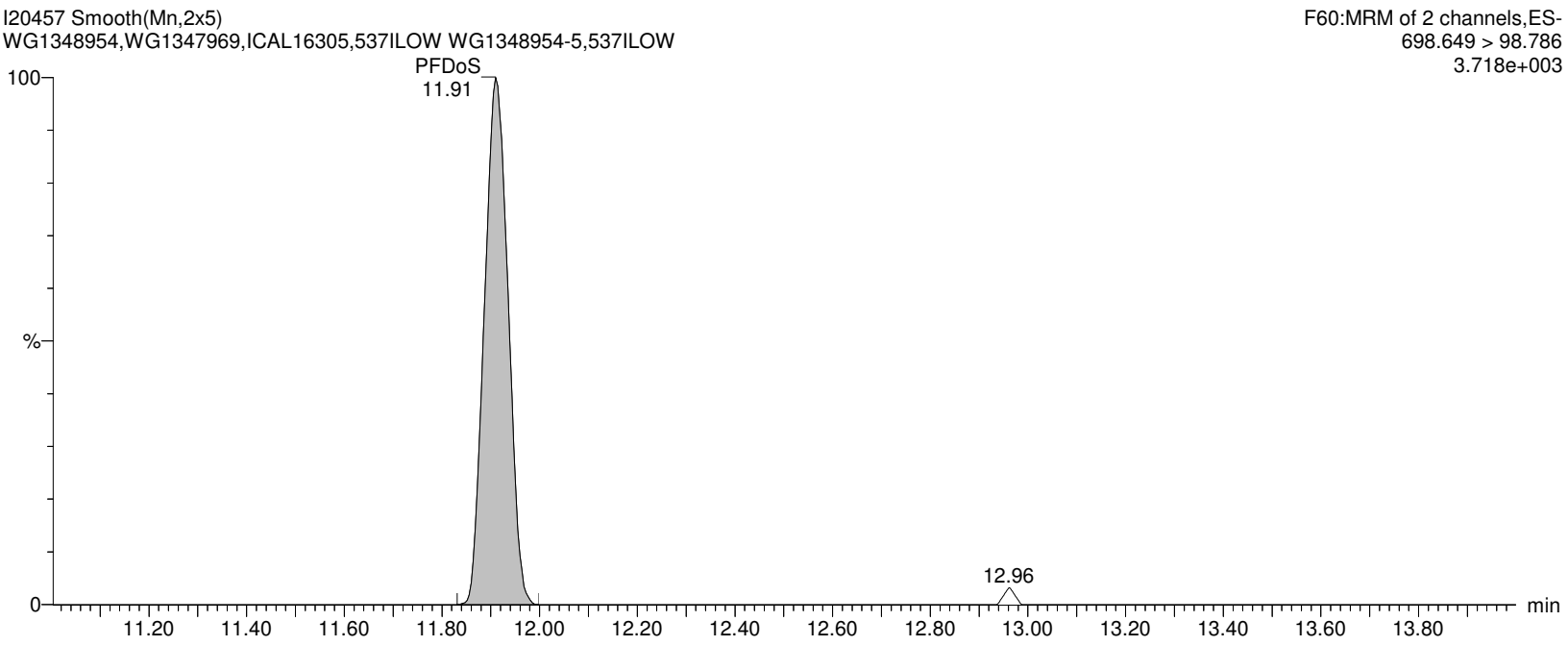

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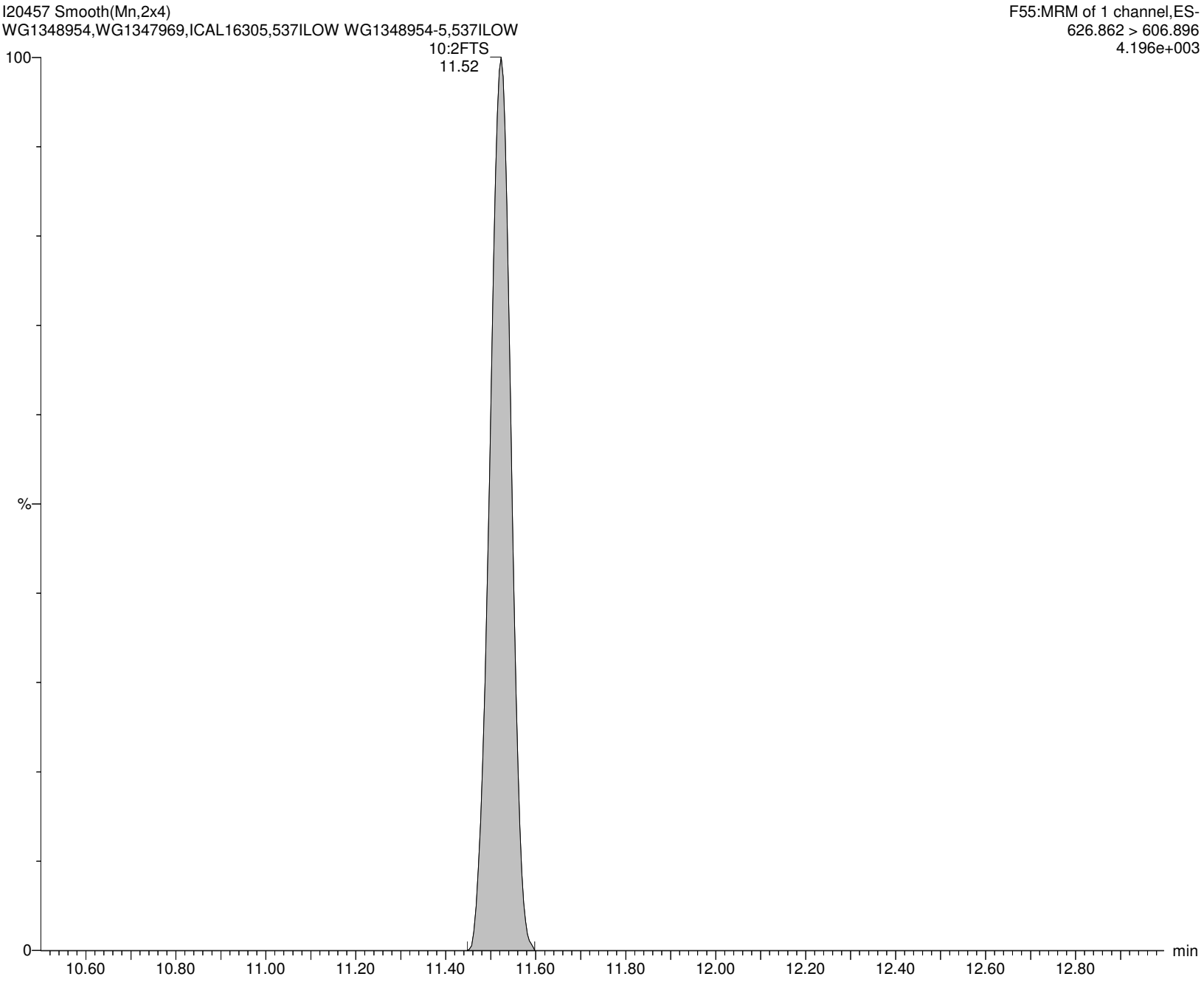
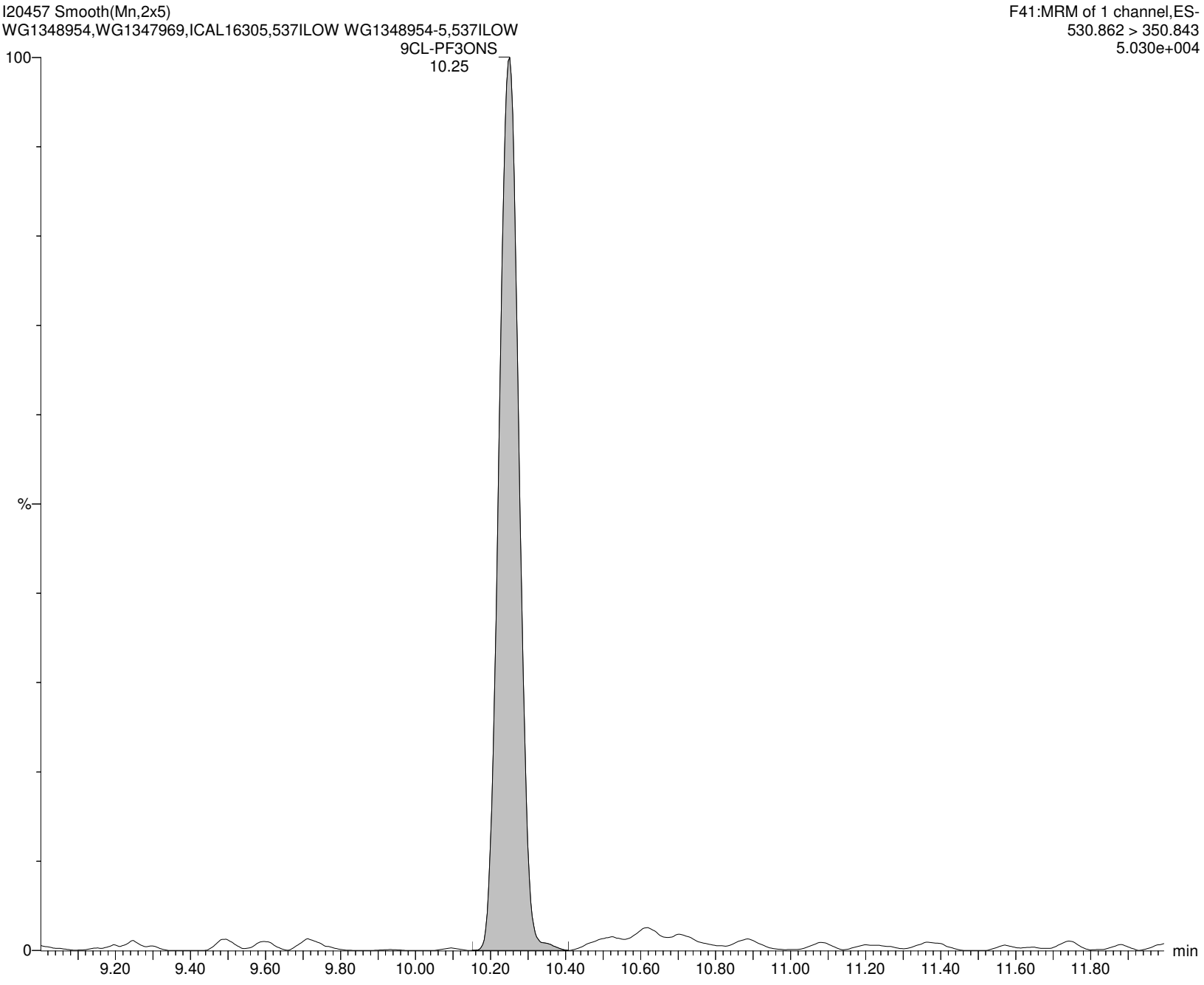


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:43 Eastern Daylight Time

Name: I20457
ID: WG1348954-5,537ILOW
Date: 11-Mar-2020
Time: 03:27:13
Description: WG1348954,WG1347969,ICAL16305,537ILOW
User: LCMS02:RS
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

9CL-PF3ONS



all concentration units in (ng/mL)

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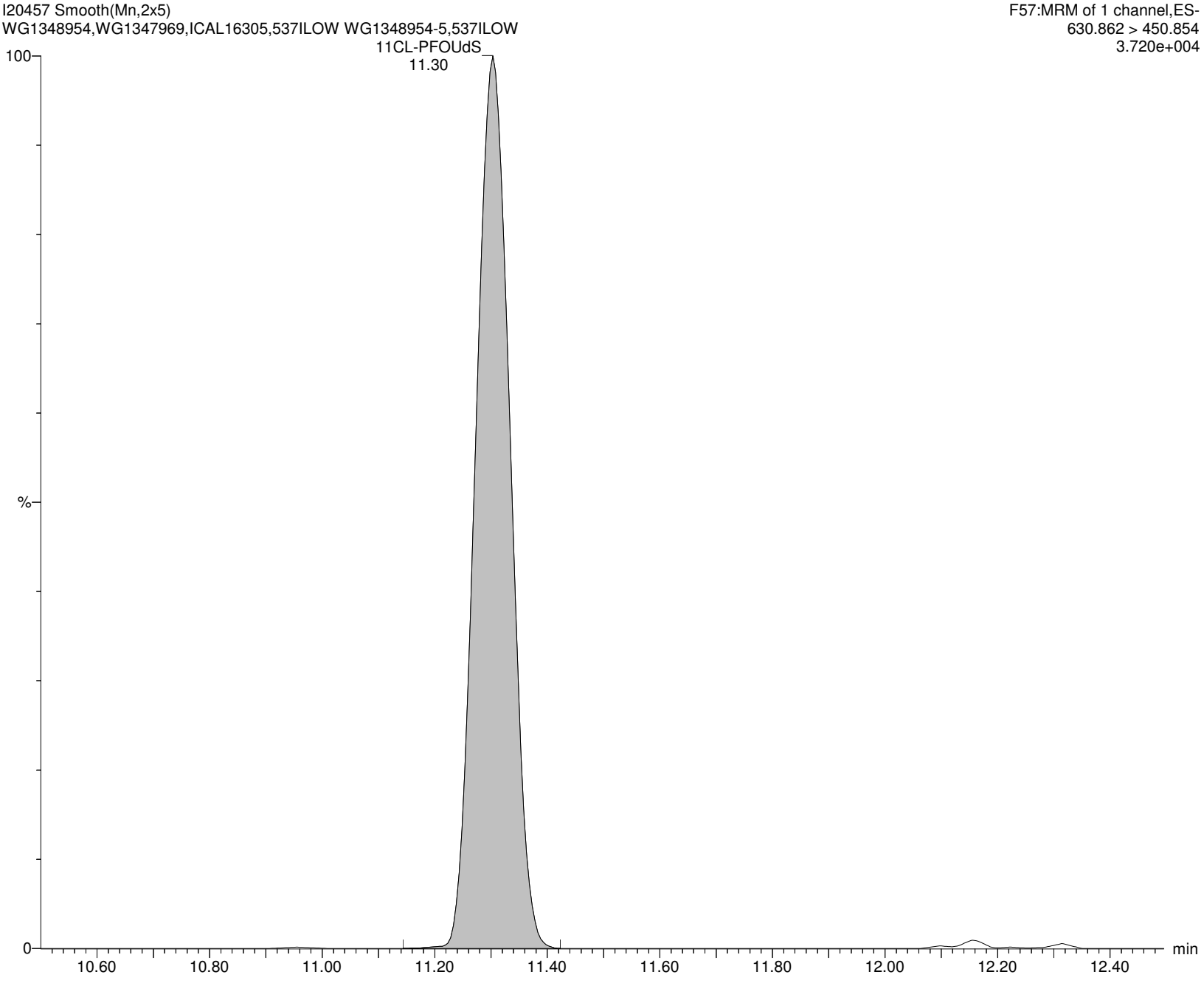
11CL-PFOUdS



all concentration units in (ng/mL)

Semivolatiles Raw QC Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 09:03:00 Eastern Daylight Time

Method: C:\MassLynx\Data\2020\200309_537ISO.PRO\MethDB\537ISO_Q_191118_DOD_RT.mdb 07 Feb 2020 15:55:12
Calibration: C:\MassLynx\Data\2020\200309_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 14:41:42

ID: WG1347919-1
Name: I20436
Date: 10-Mar-2020
Time: 21:37:46
Description: WG1348954,WG1347919,ICAL16305
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.18	215.926 > 172.122	50586		10.917		na	109.2
3	MPFBA	INT STD	2.18	216.926 > 172.137	59727		10.849		na	108.5
4	PFPeA	2706-90-3	5.05	262.926 > 219.002	539		0.058		na	
5	M5PFPEA	INT STD	5.06	267.989 > 223.081	96487		12.357		na	123.6
6	PFBS	375-73-5	5.69	298.926 > 79.923	6	M2	0.003		YES	
7	M3PFBS	INT STD	5.70	301.989 > 80.254	11996		9.838		na	98.4
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.85	329.117 > 309.079	8400		10.610		na	106.1
10	PFHxA	307-24-4	6.93	312.989 > 269.028	797	M4	0.078		YES	
11	M5PFHxA	INT STD	6.93	317.989 > 273.045	110543		10.652		na	106.5
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9	8.16	362.926 > 319.014	124	M4	0.009		YES	
14	M4PFHpA	INT STD	8.16	366.926 > 321.979	147472		10.668		na	106.7
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.31	401.926 > 80.317	7482		10.631		na	106.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.07	412.989 > 368.9	408		0.030	24.28	YES	
21	PFOA	335-67-1		412.989 > 368.9	408		0.030		na	
22	M8PFOA	INT STD	9.07	420.989 > 375.979	148539		11.198		na	112.0
23	M2PFOA	INT STD	9.07	415.032 > 369.968	135568		12.824		na	128.2
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.03	428.989 > 408.917	8461		10.935		na	109.4
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1	9.83	462.989 > 418.931	171		0.014		YES	
28	M9PFNA	INT STD	9.82	472.053 > 426.947	149582		11.460		na	114.6
29	br-PFOS	1763-23-1	9.68	498.989 > 80.294	17		0.014	0.51	NO	
30	L-PFOS	1763-23-1	9.85	498.989 > 80.294	22		0.024		YES	
31	PFOS	1763-23-1		498.989 > 80.294	39		0.037		na	
32	M4PFOS	INT STD	9.87	503.032 > 80.306	8712		12.474		na	124.7
33	M8PFOS	INT STD	9.87	507.053 > 80.294	9579		10.715		na	107.2
34	PFDA	335-76-2	10.47	513.053 > 468.906	185	M4	0.016		YES	
35	M2PFDA	INT STD	10.46	515.053 > 469.934	124385		14.088		na	140.9
36	M6PFDA	INT STD	10.46	519.053 > 473.931	137053		10.661		na	106.6
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.45	529.053 > 508.945	5347		11.780		na	117.8
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

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Printed: Thursday, March 12, 2020 09:03:00 Eastern Daylight Time

ID: WG1347919-1
Name: I20436
Date: 10-Mar-2020
Time: 21:37:46
Description: WG1348954,WG1347919,ICAL16305
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.86	573.096 > 418.987	15465		10.564		na	105.6
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.86	570.053 > 418.917	28		0.020	5.40	YES	
43	NMeFOSAA	2355-31-9		570.053 > 418.917	28		0.020		na	
44	PFUnA	2058-94-8	11.02	562.989 > 518.903	139		0.011		YES	
45	M7-PFUDA	INT STD	11.02	570.053 > 524.923	133374		11.695		na	116.9
46	PFDS	335-77-3		598.926 > 80.314			ND		YES	
47	FOSA	754-91-6		497.989 > 78.245			ND		YES	
48	M8FOSA	INT STD	10.92	506.053 > 78.286	18535		6.098		na	61.0
49	d5-NEtFOSAA	INT STD	11.16	589.117 > 418.929	11844		9.158		na	91.6
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.16	583.989 > 418.927	48		0.043		YES	
52	NEtFOSAA	2991-50-6		583.989 > 418.927	48		0.043		na	
53	PFDoA	307-55-1	11.52	612.989 > 568.967	178		0.016		YES	
54	MPFDOA	INT STD	11.51	614.989 > 569.92	133844		10.461		na	104.6
55	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
56	PFTA	376-06-7	12.29	713.053 > 668.976	123	M4	0.015		YES	
57	M2PFTEDA	INT STD	12.29	715.053 > 669.945	100507		9.890		na	98.9
58	M3HFPO-DA	INT STD	7.35	331.989 > 286.995	3770		64.875		na	32.4
59	HFPO-DA	13252-13-6		284.819 > 169.094			ND		YES	
60	ADONA	958445-44-8	8.33	376.926 > 251.005	35		0.002		na	
61	PFHxDA		12.75	813.053 > 769.005	758		0.128		na	
62	PFODA			912.989 > 869.032			ND		na	
63	M2PFHxDA		12.75	815.372 > 770.158	16150		7.466		na	74.7
64	PFDoS			698.649 > 79.853			ND		YES	
65	10:2FTS			626.862 > 606.896			ND		na	
66	9CL-PF3ONS		10.17	530.862 > 350.843	51		0.008		na	
67	11CL-PFOUdS			630.862 > 450.854			ND		na	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 09:03:00 Eastern Daylight Time

Method: C:\MassLynx\Data\2020\200309_537ISO.PRO\MethDB\537ISO_Q_191118_DOD_RT.mdb 07 Feb 2020 15:55:12
Calibration: C:\MassLynx\Data\2020\200309_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 14:41:42

Name: I20436
ID: WG1347919-1
Date: 10-Mar-2020
Time: 21:37:46
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User: LCMS02:RS
Vial: 1:E,7
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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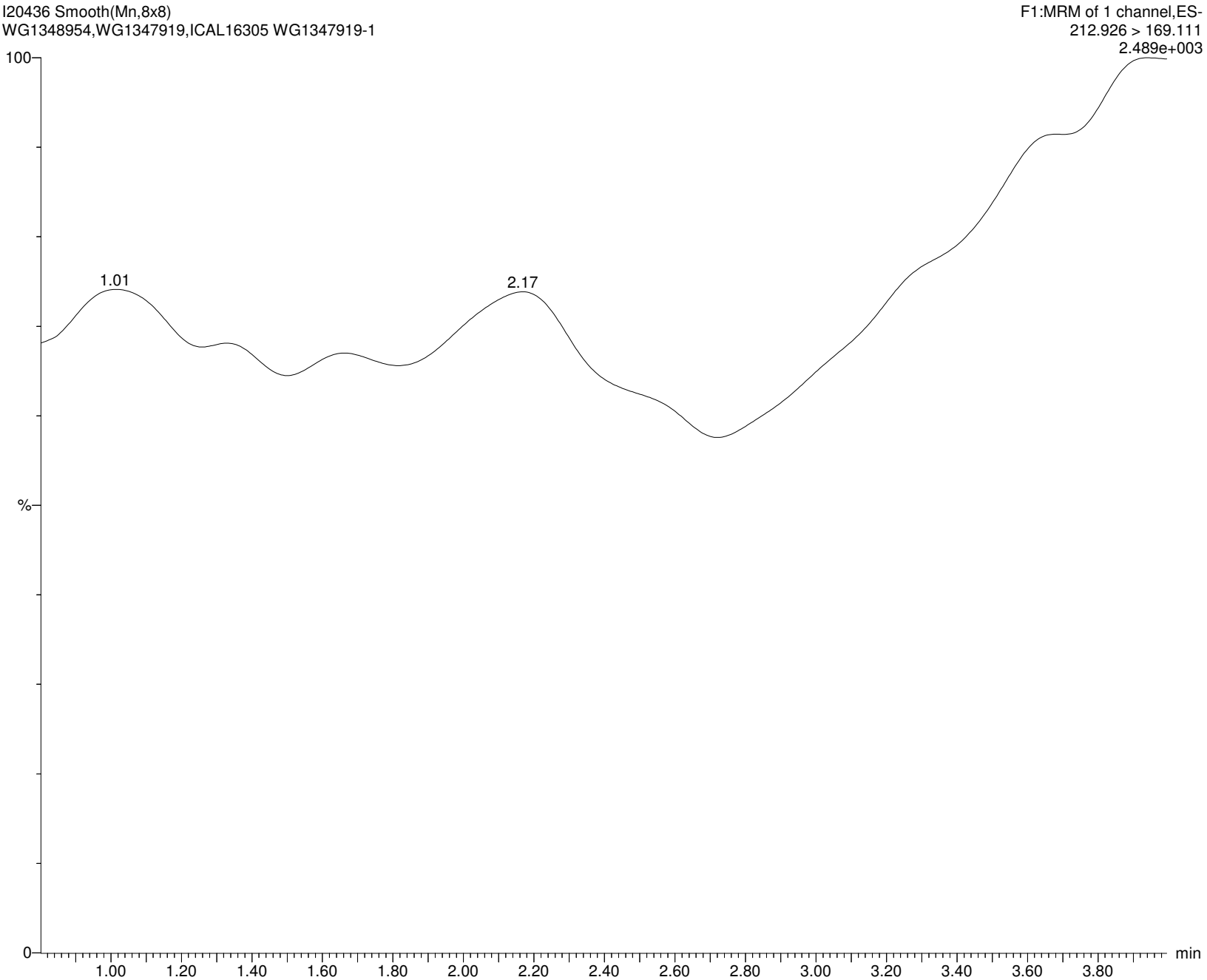

all concentration units in (ng/mL)

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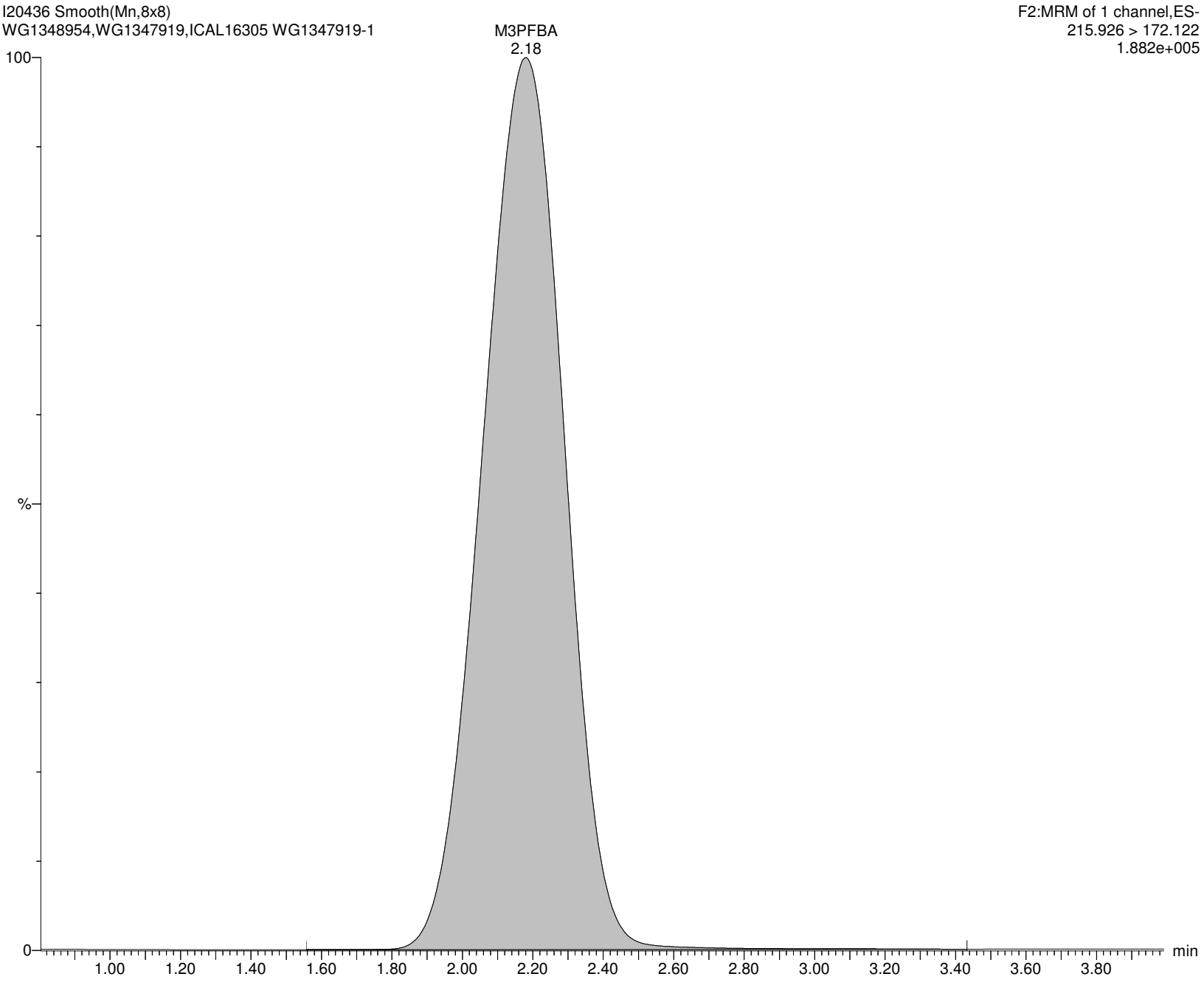

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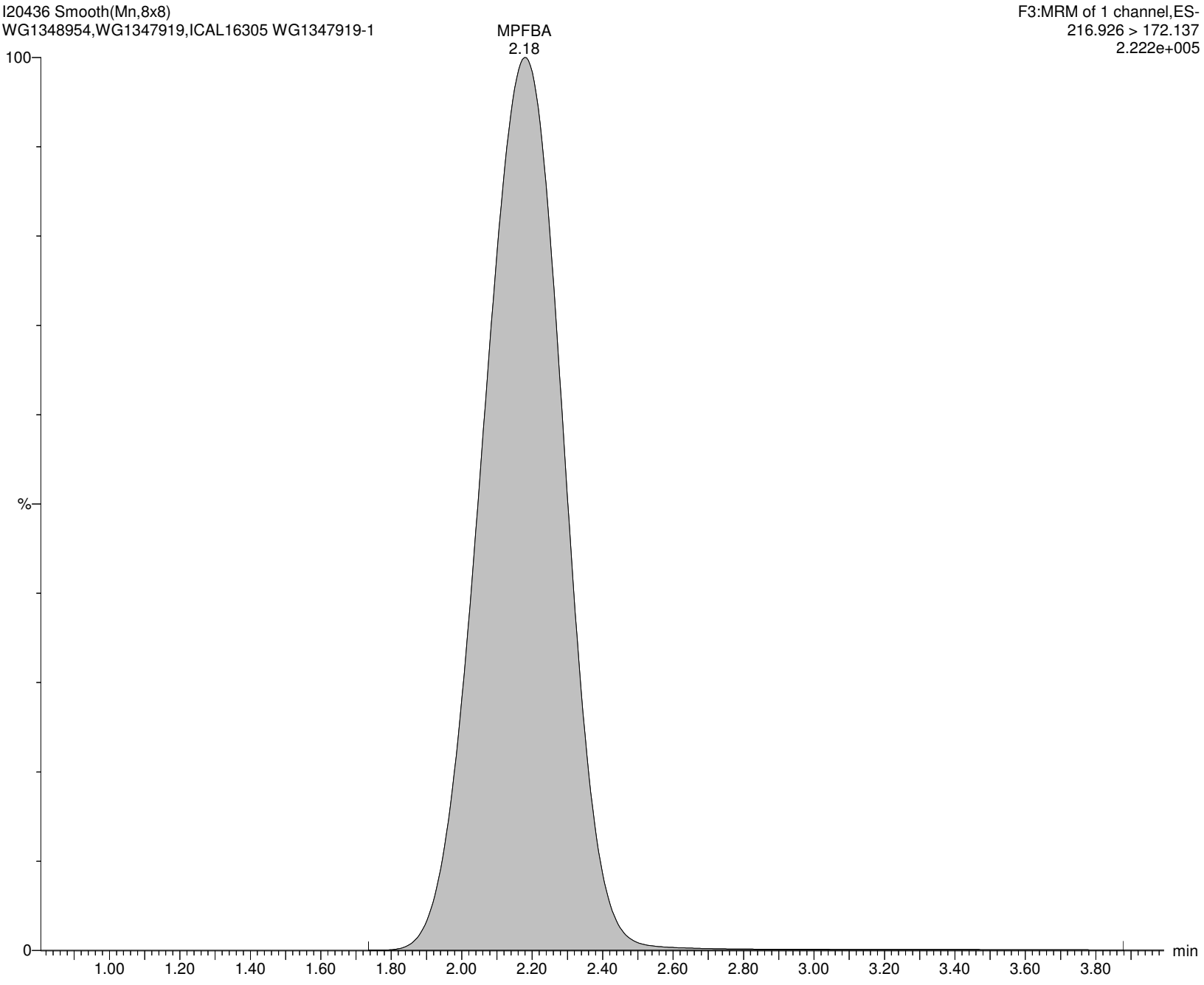

all concentration units in (ng/mL)

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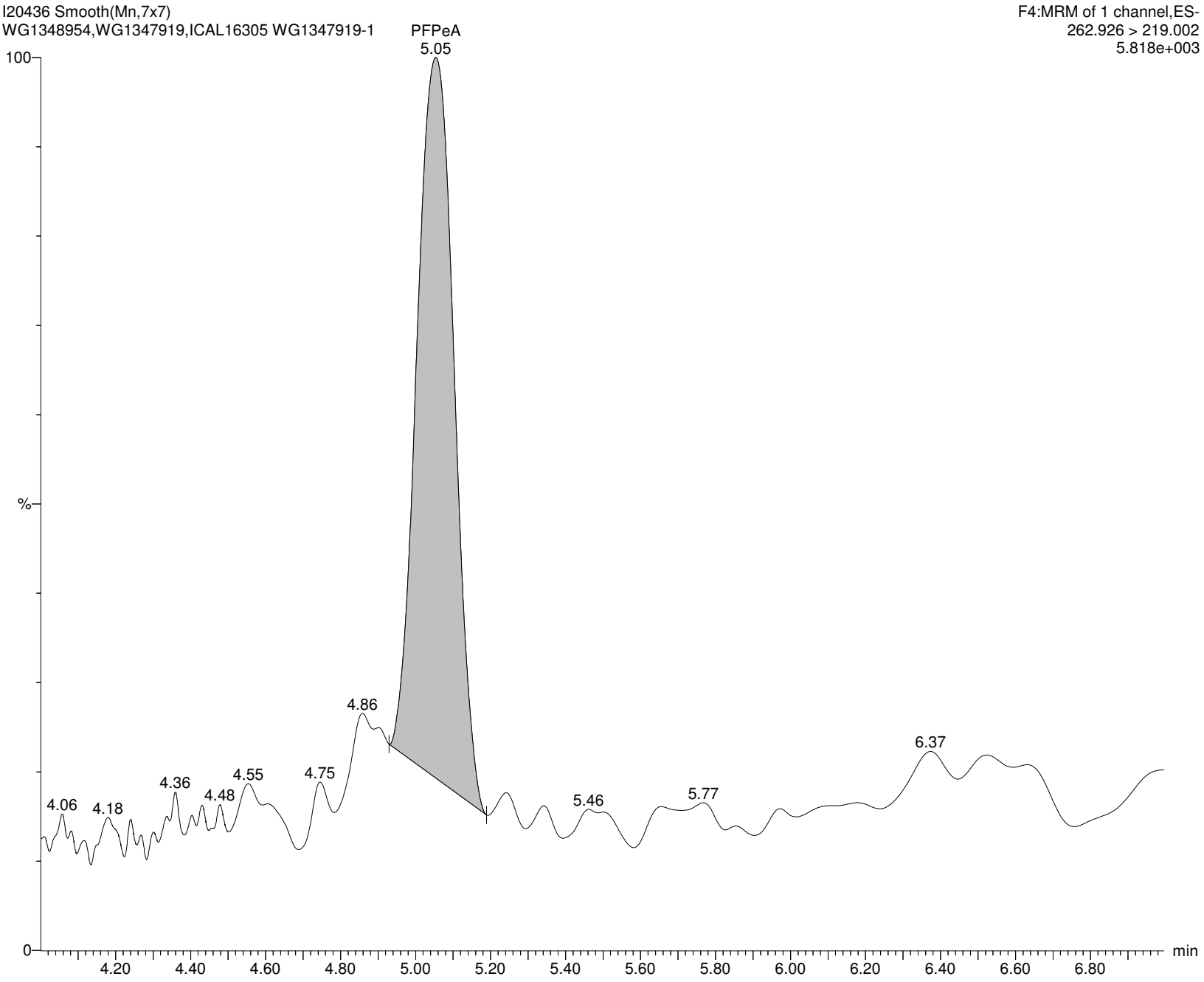
PFPeA



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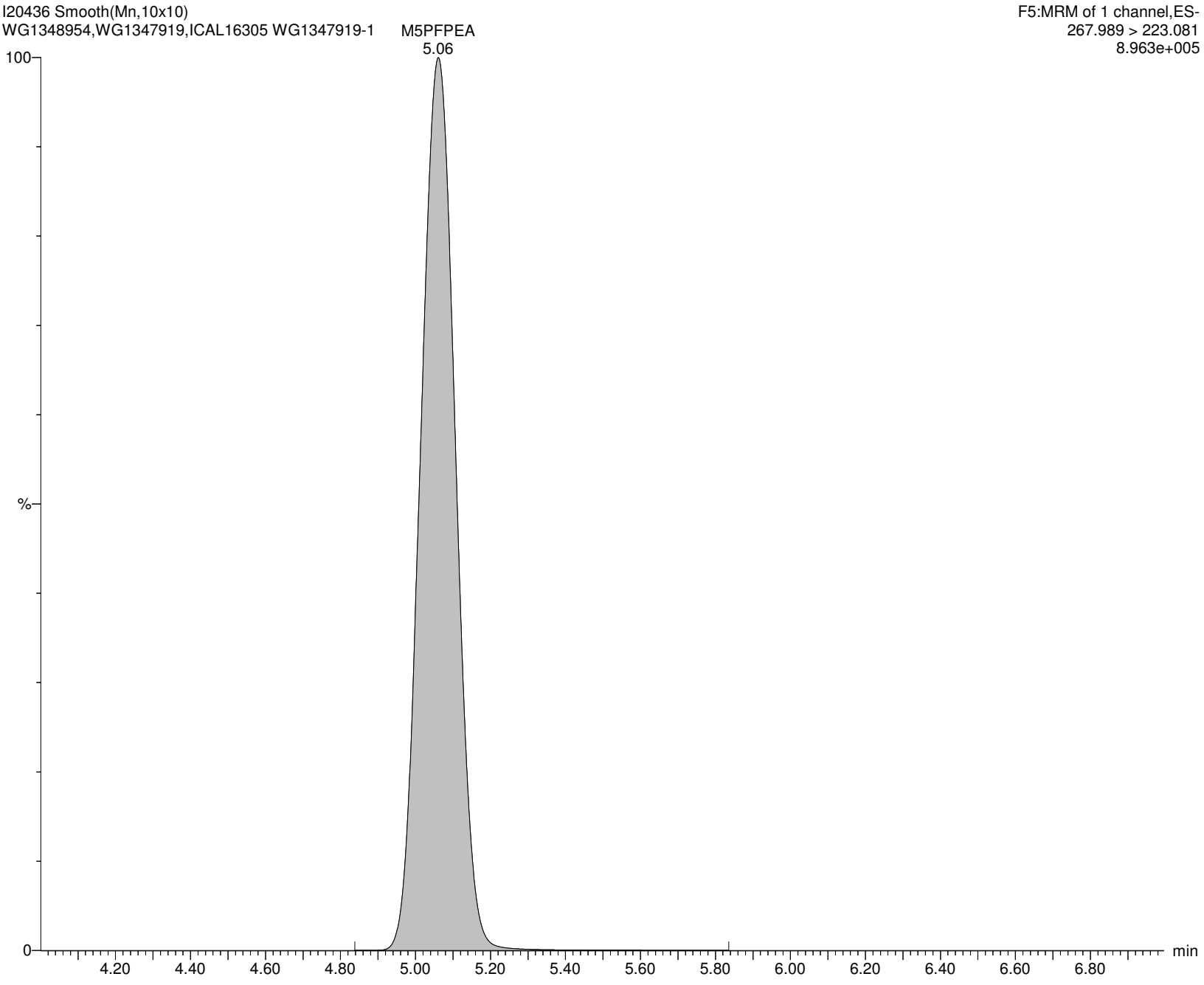

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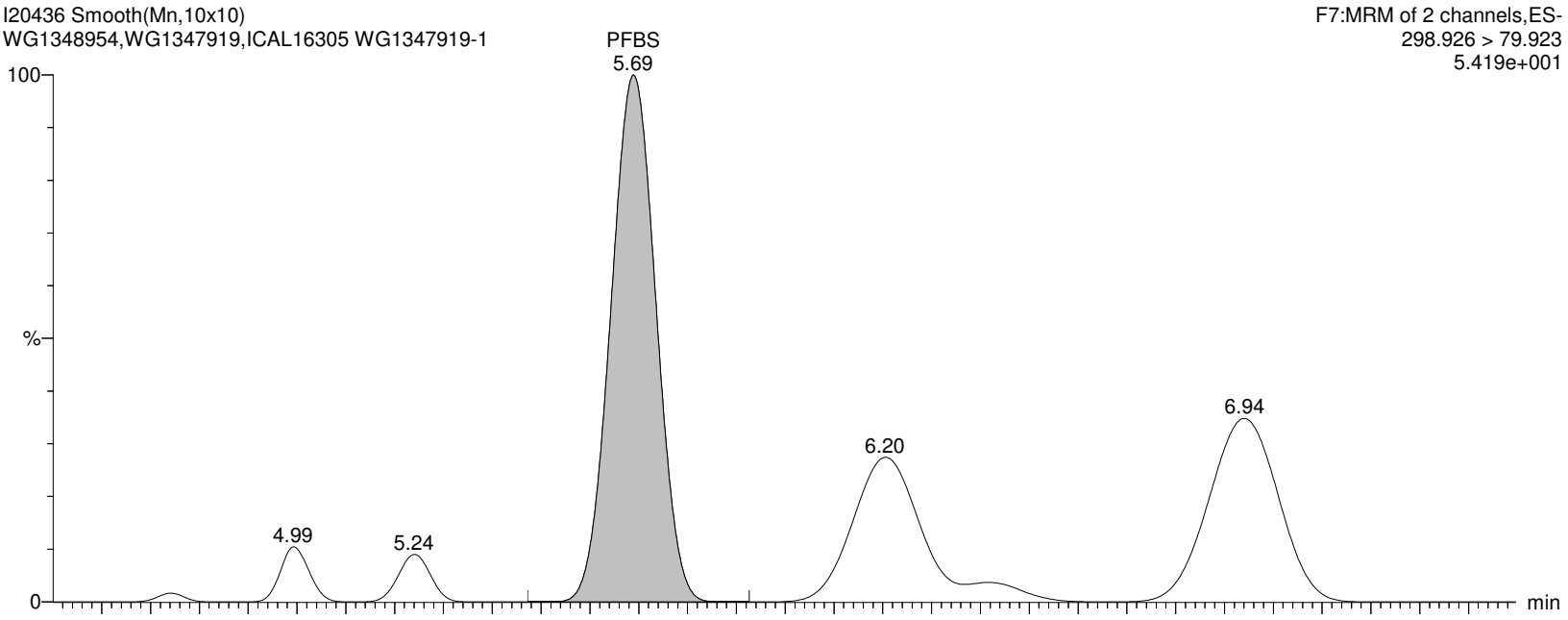
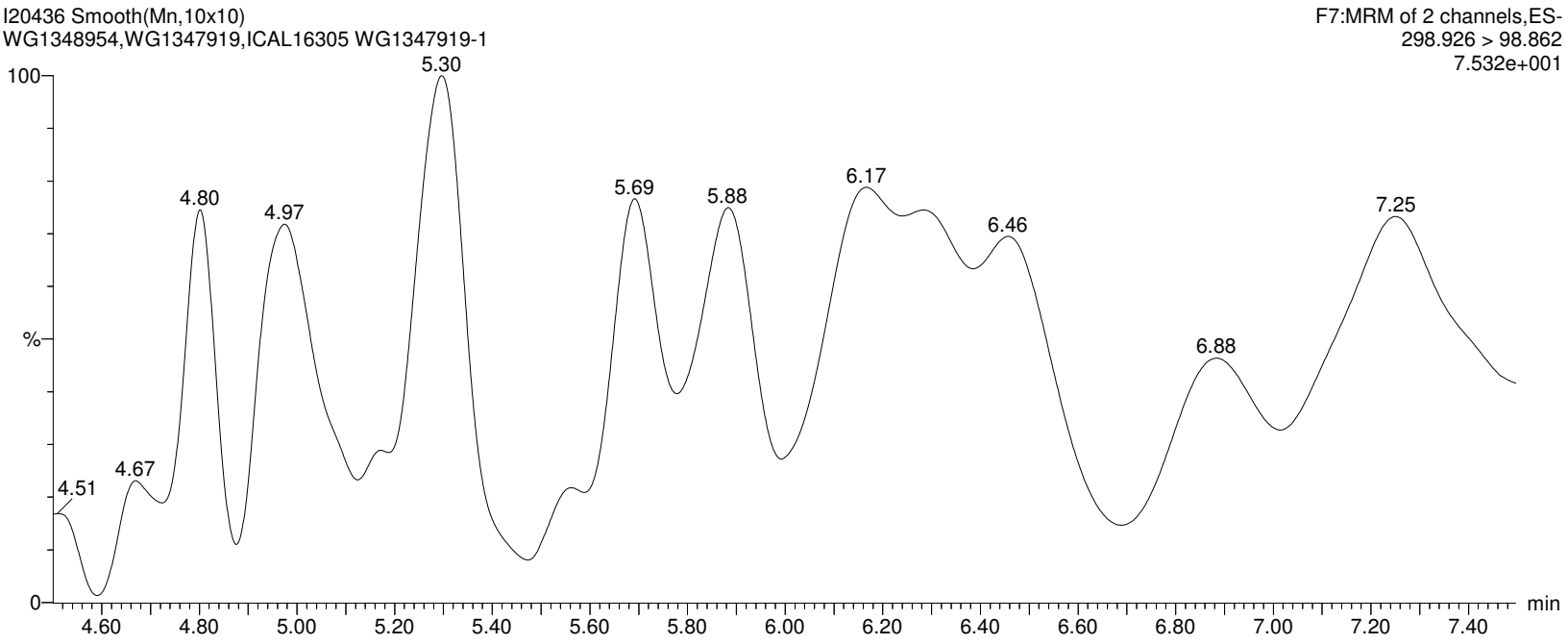
PFBS





all concentration units in (ng/mL)

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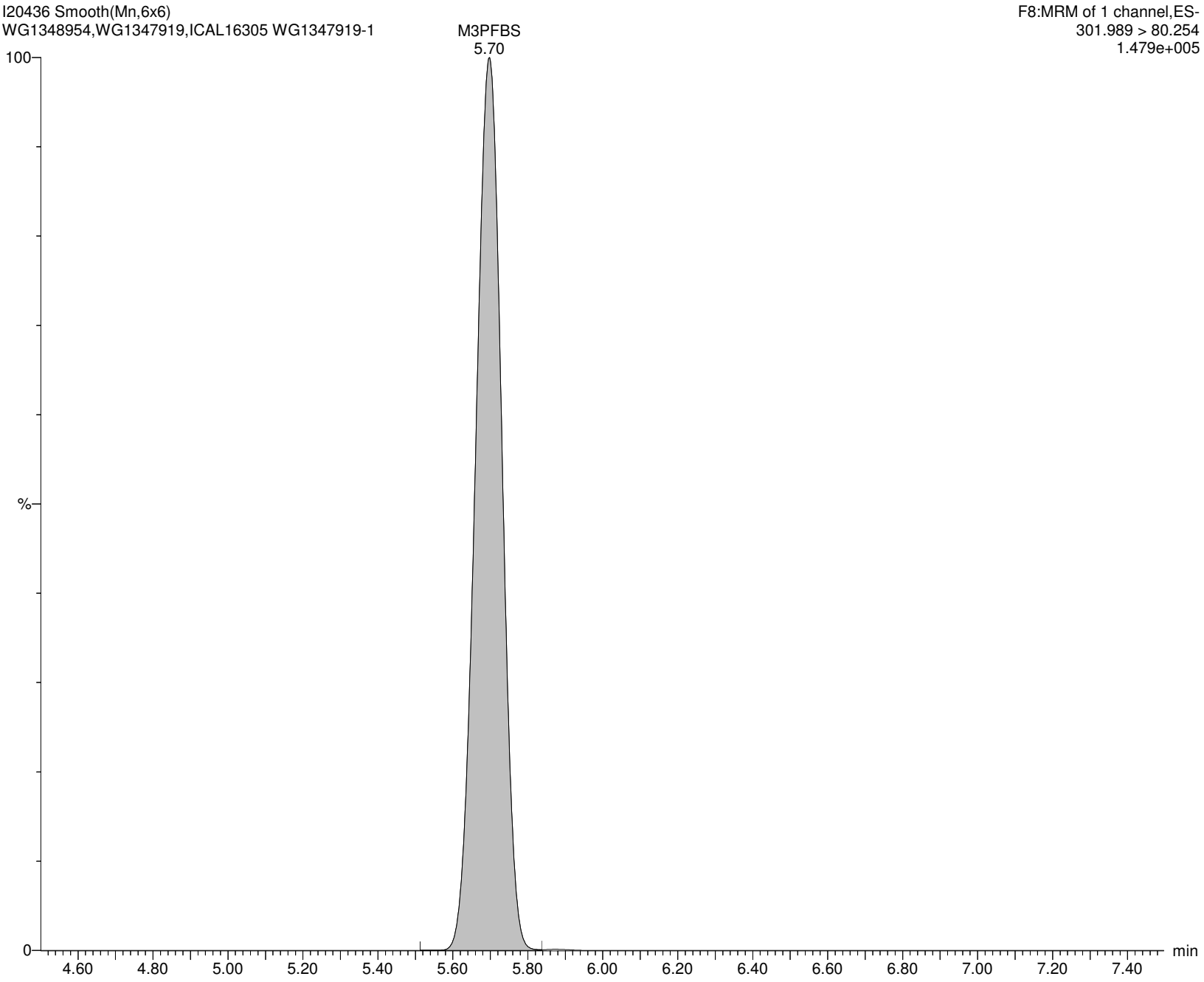
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M3PFBS



all concentration units in (ng/mL)

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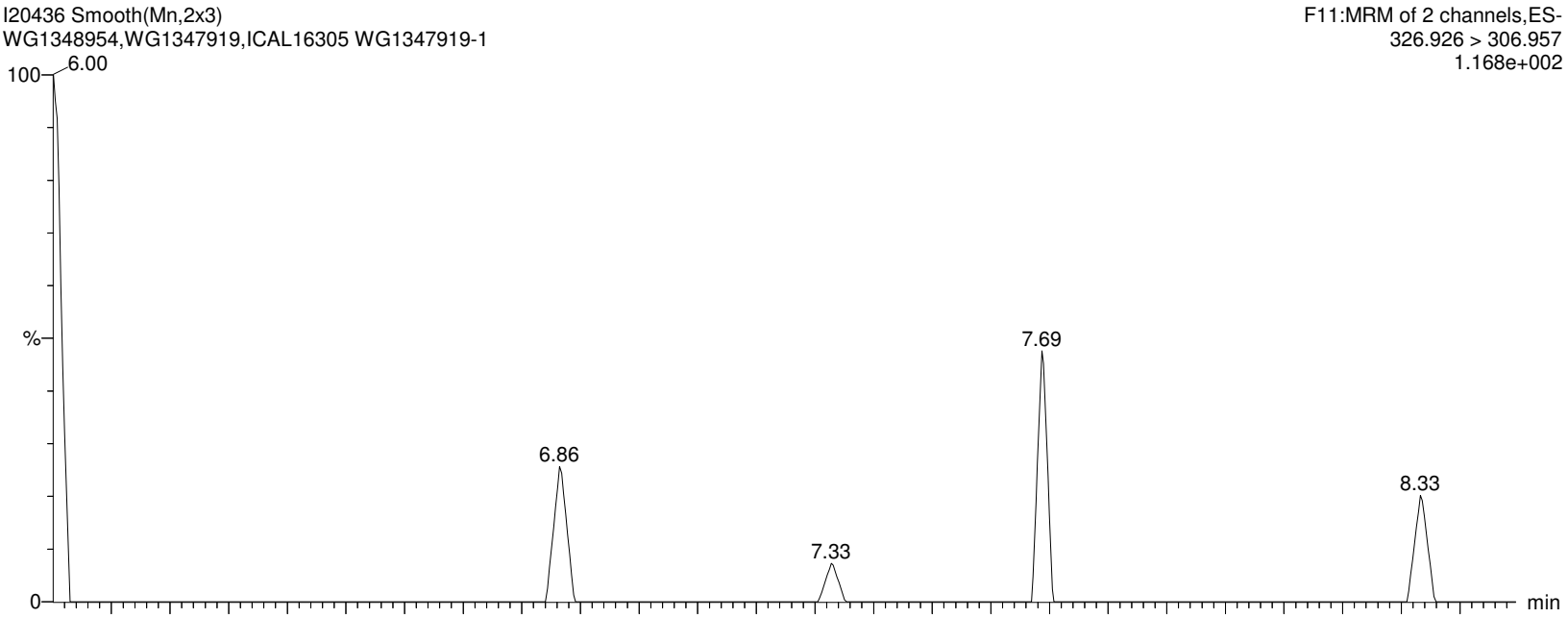

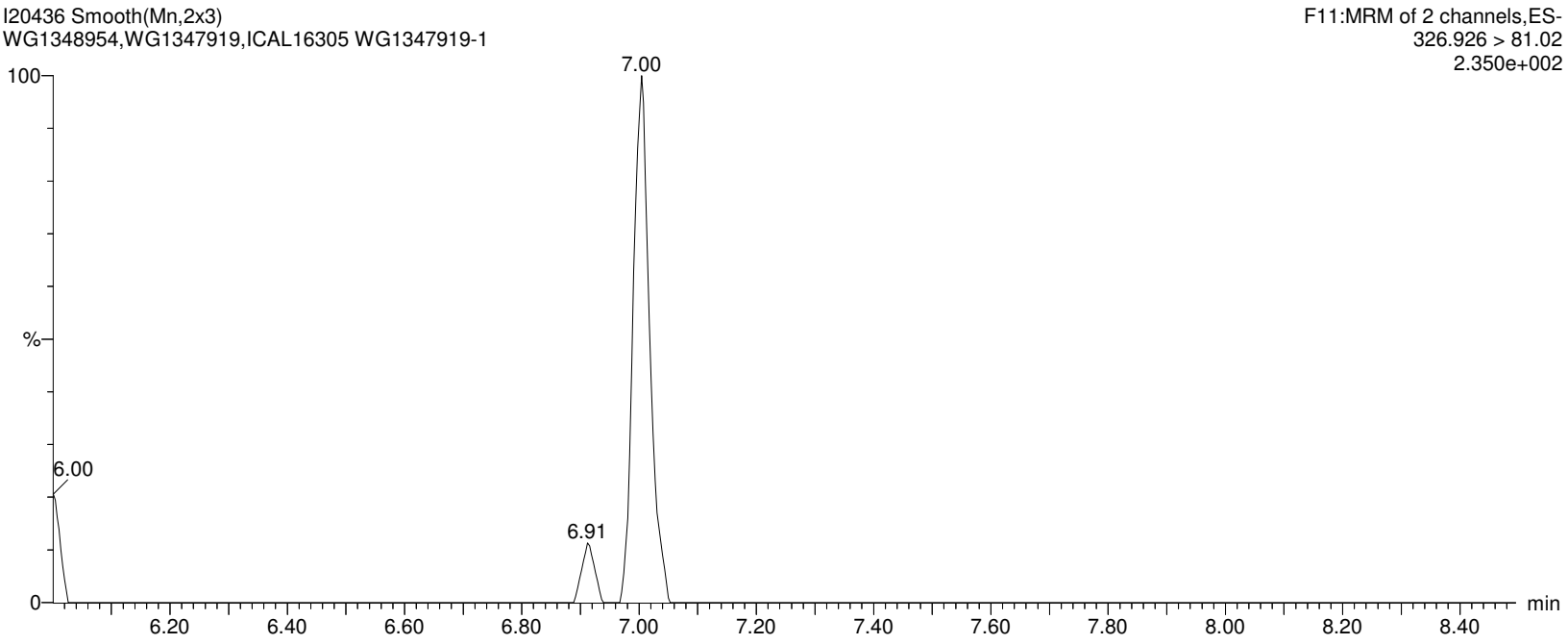

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
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ID: WG1347919-1
Date: 10-Mar-2020
Time: 21:37:46
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 1:E,7
Instrument: XEVO-TQSmicro#QEB0050
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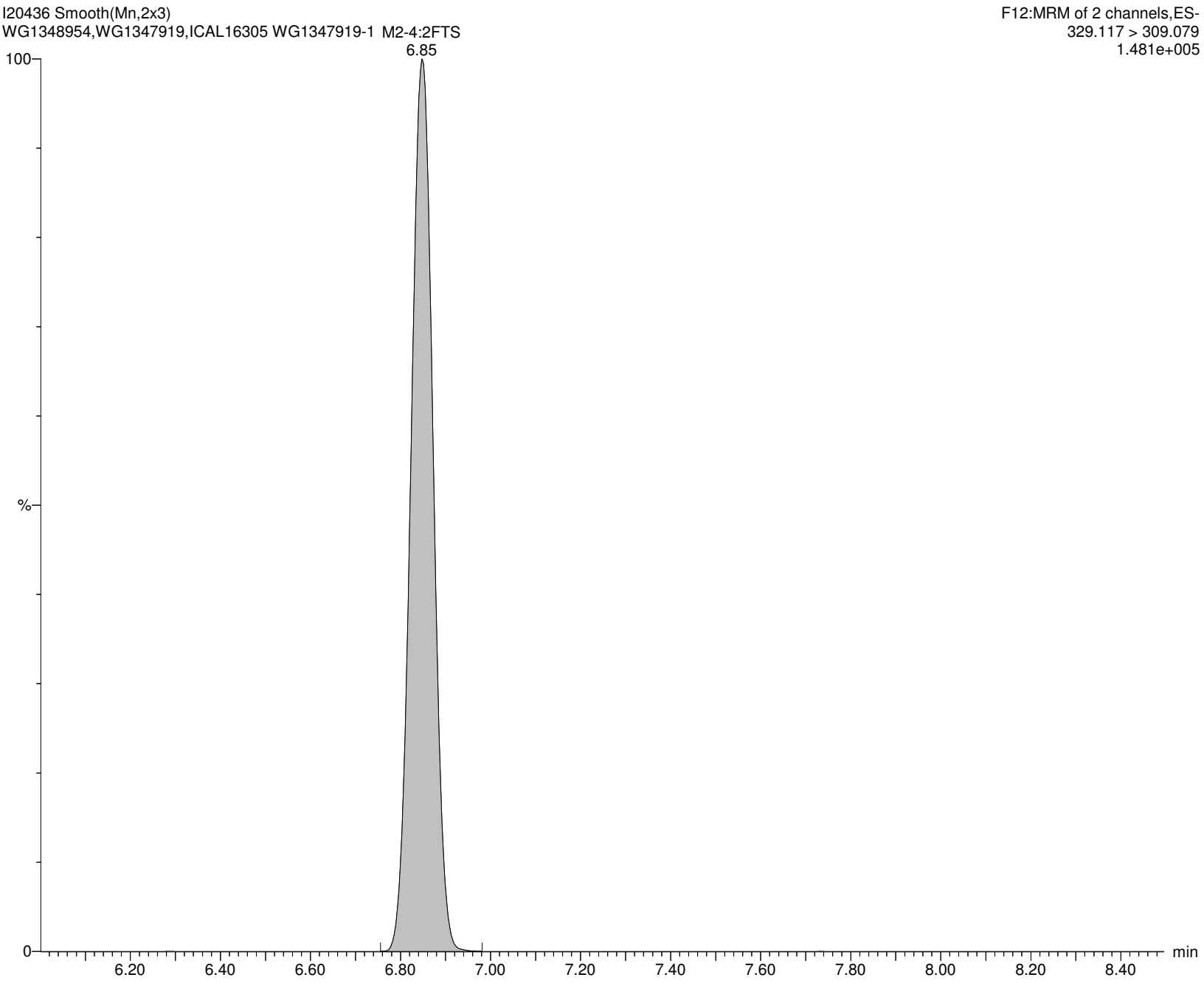

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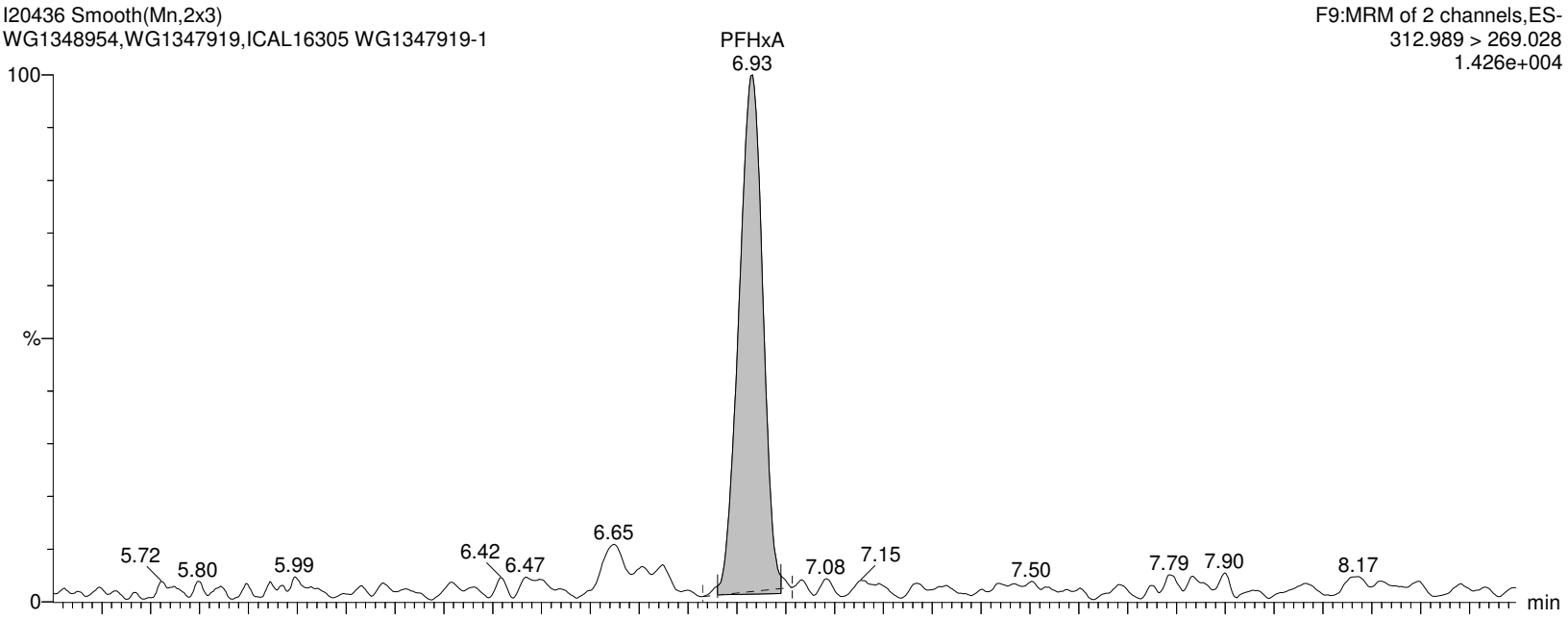

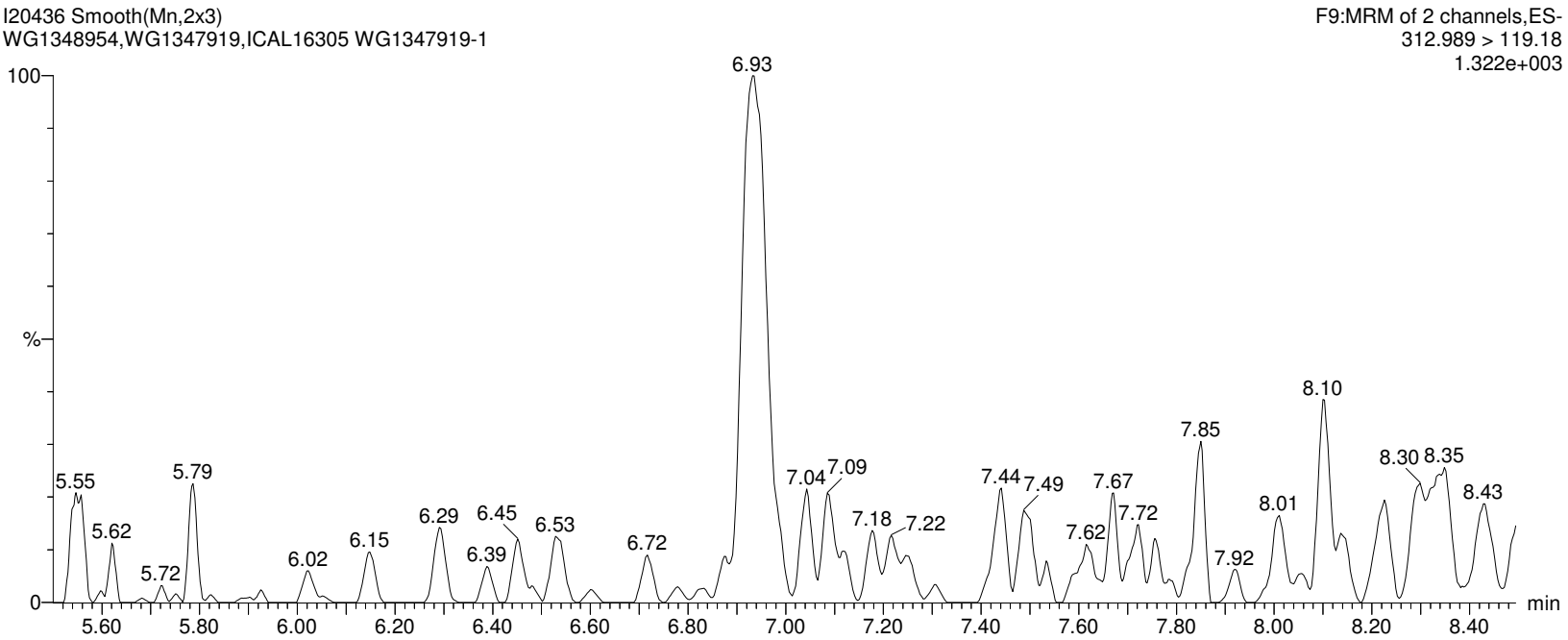

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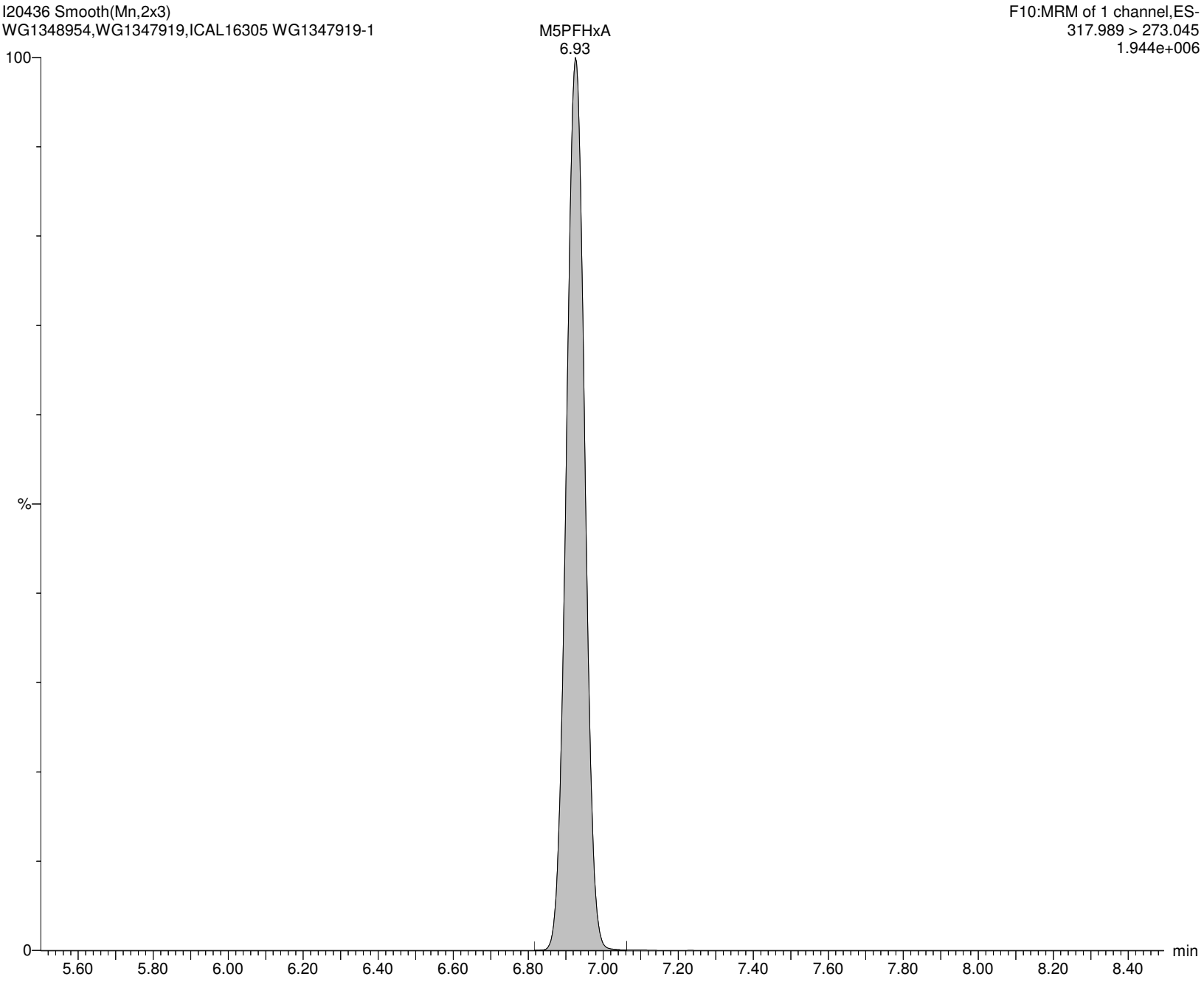

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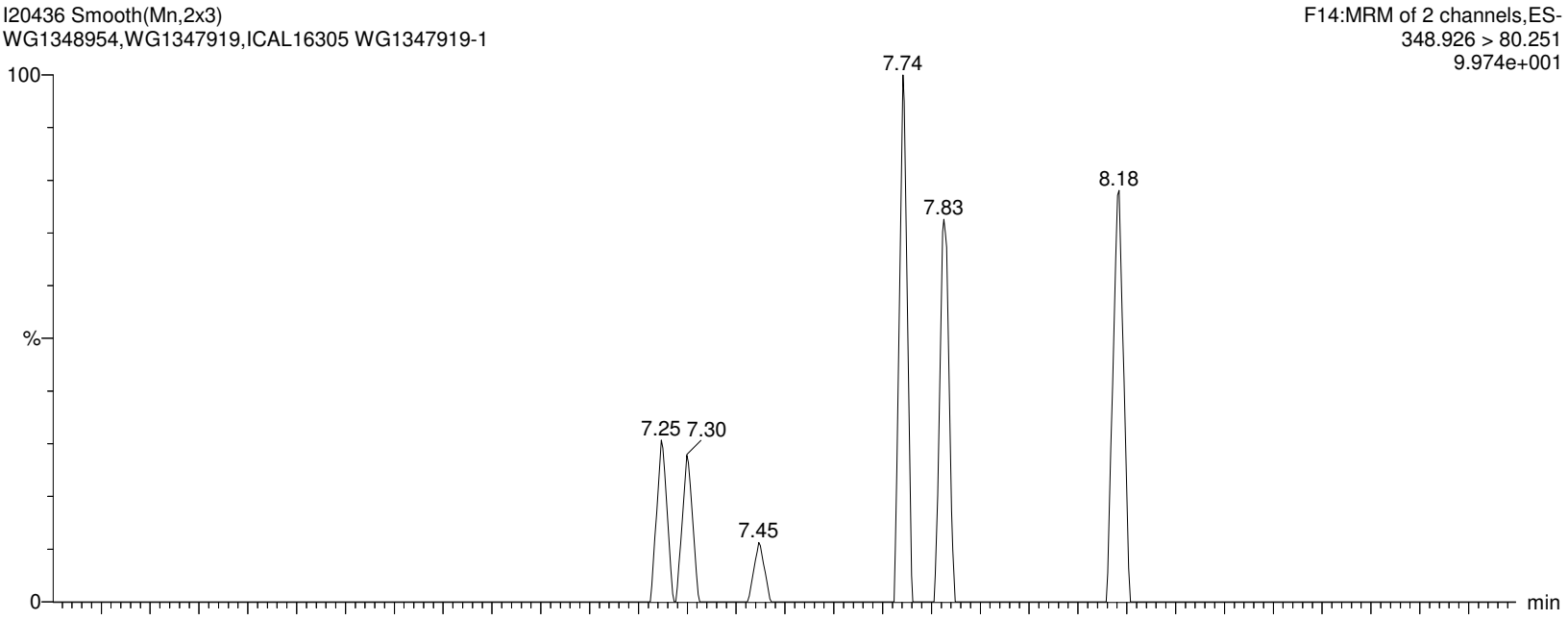

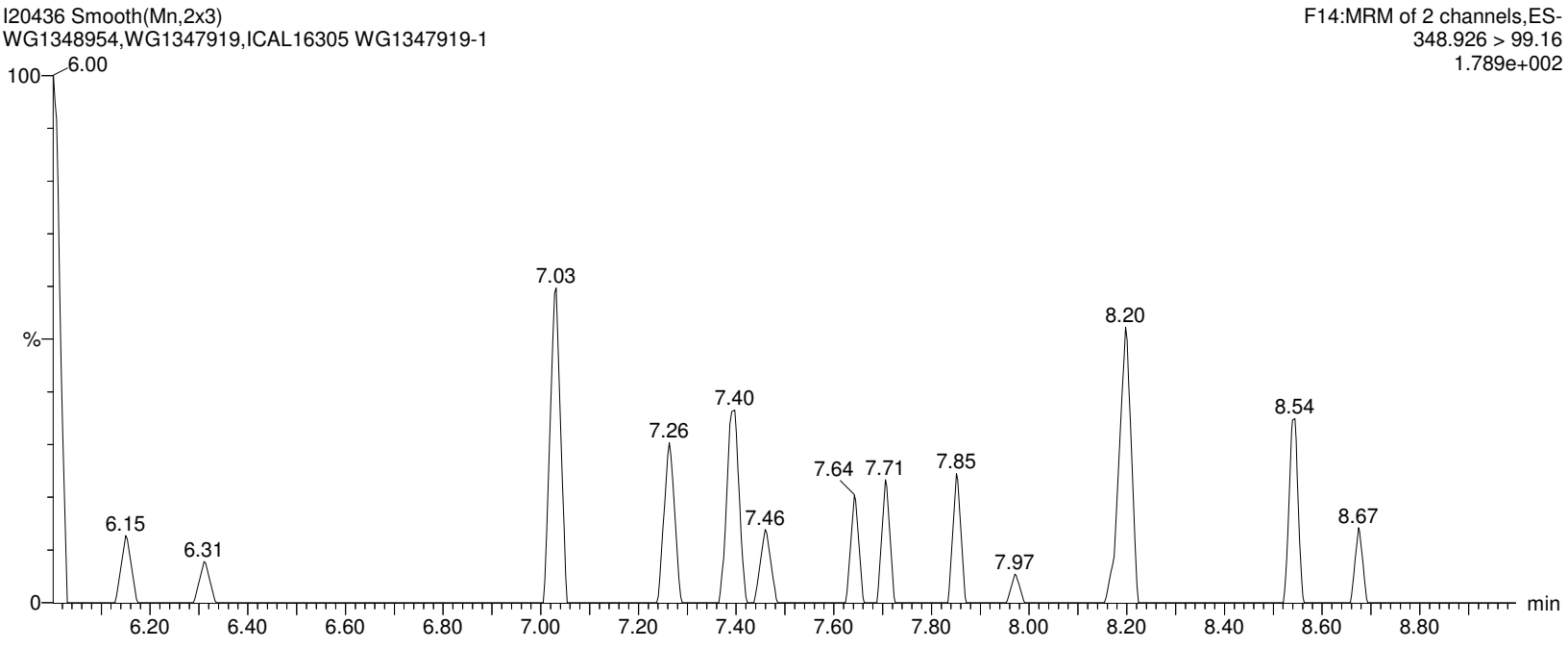

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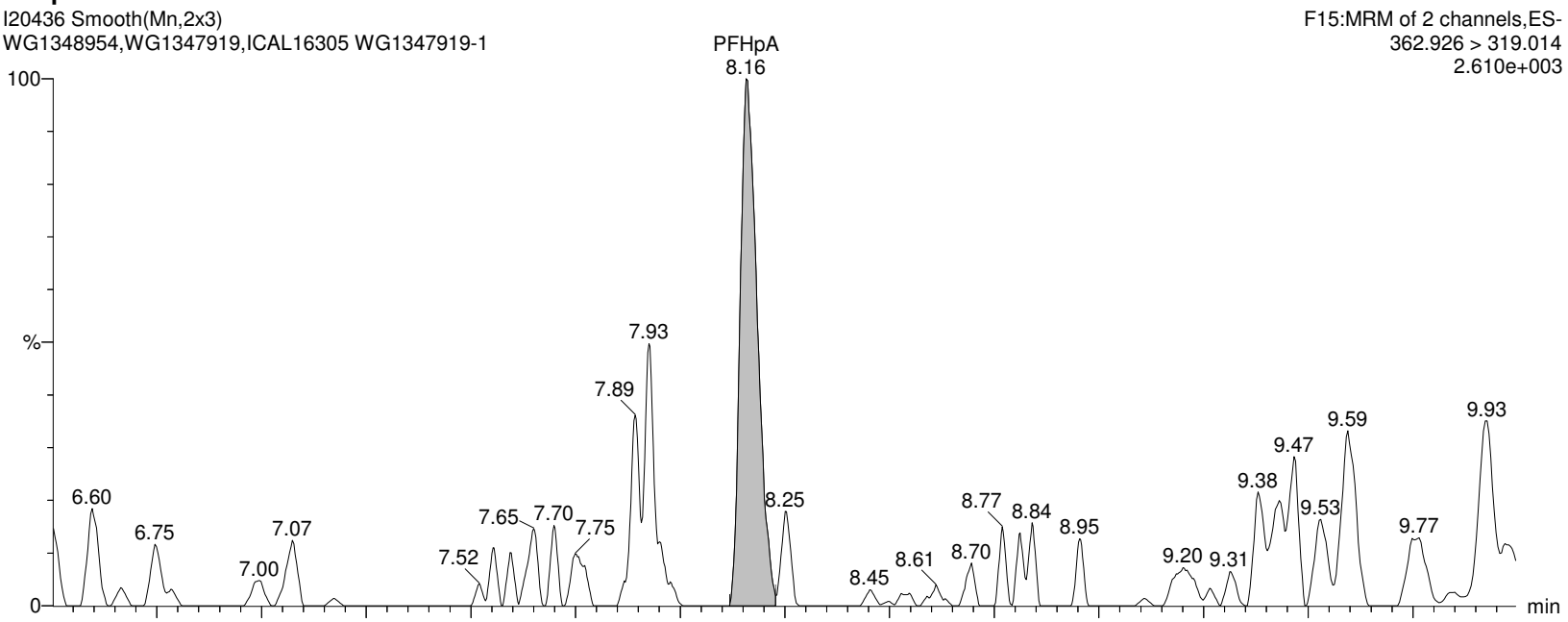

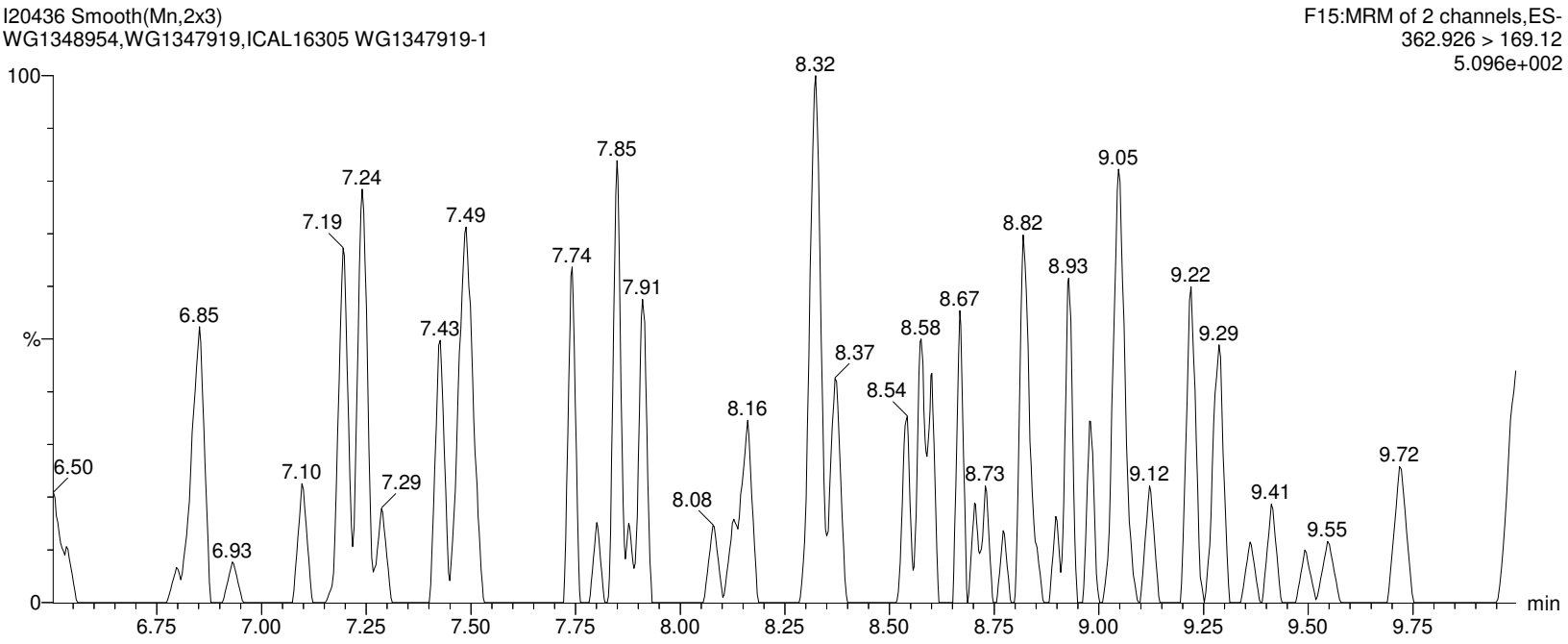

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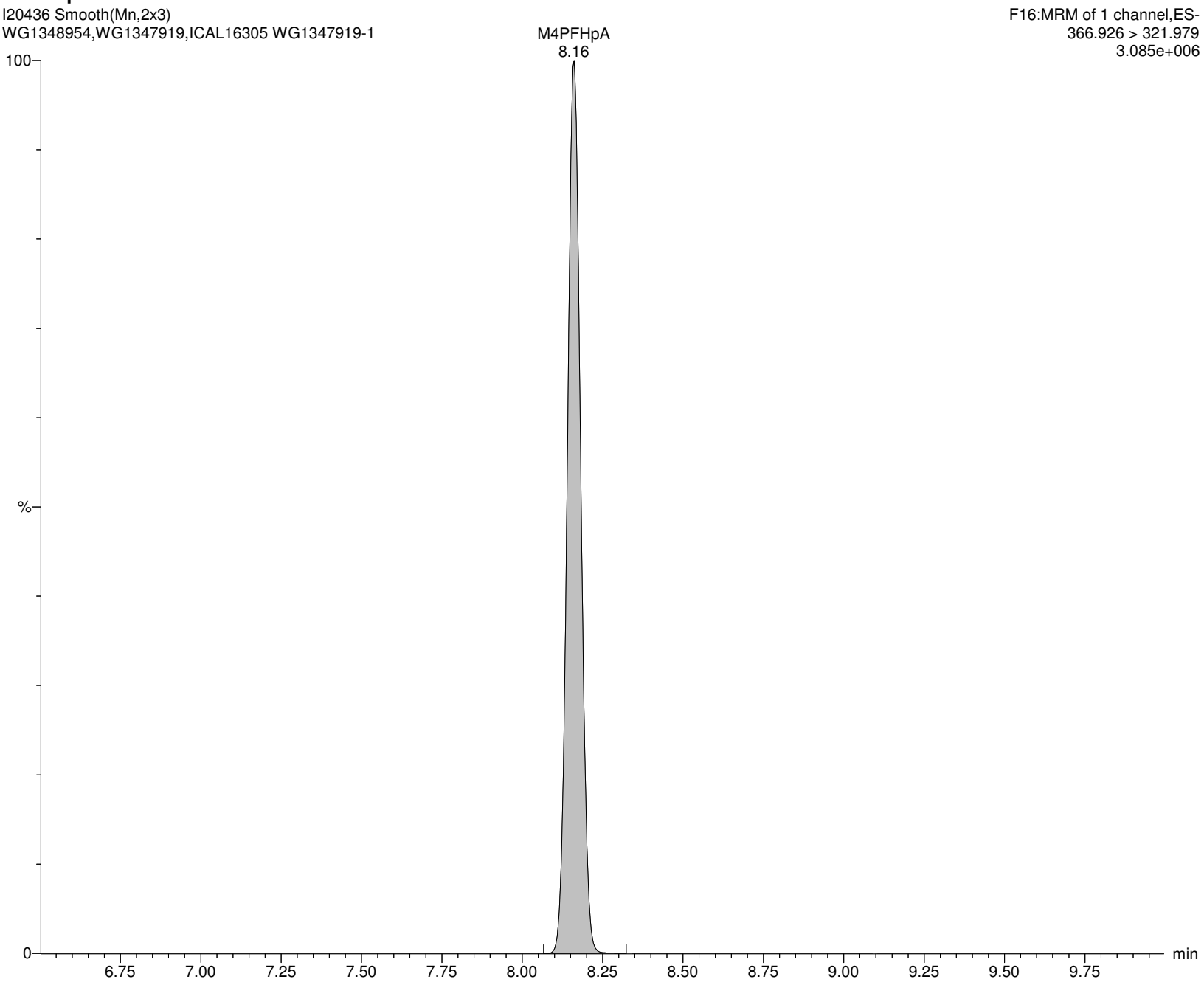

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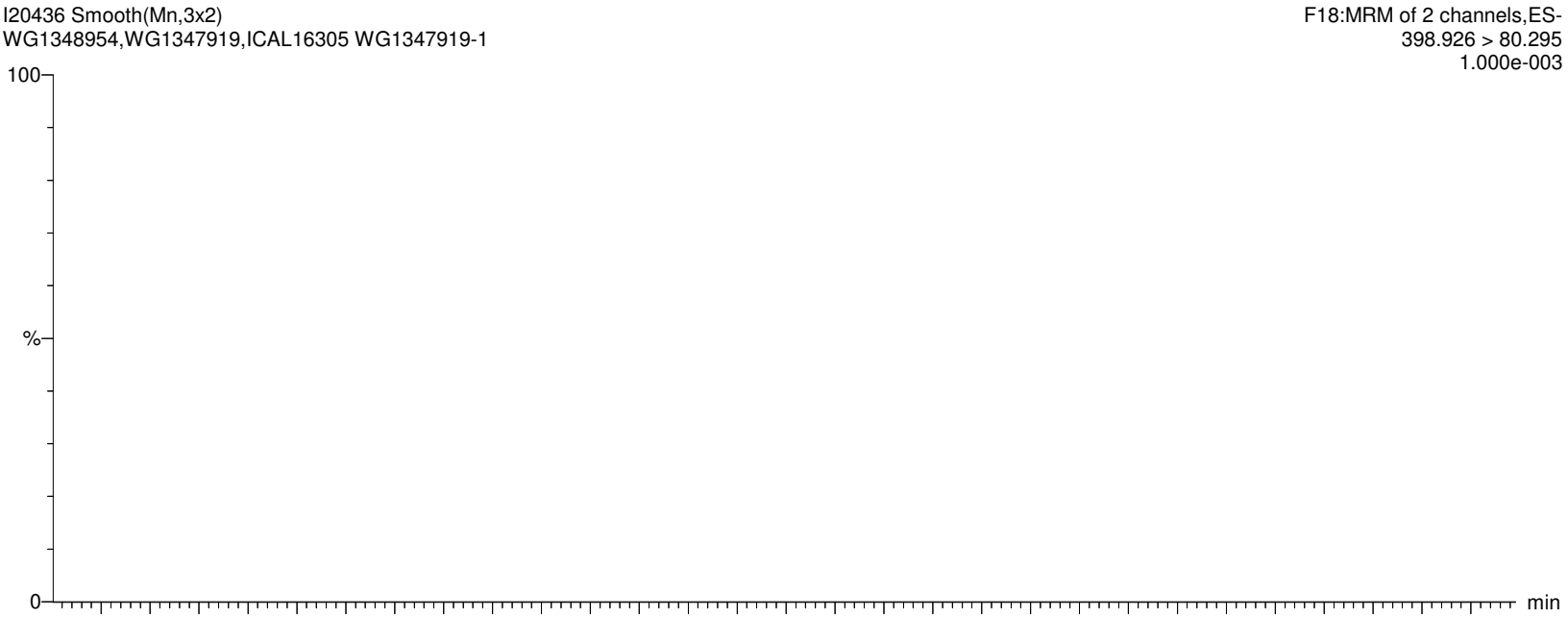

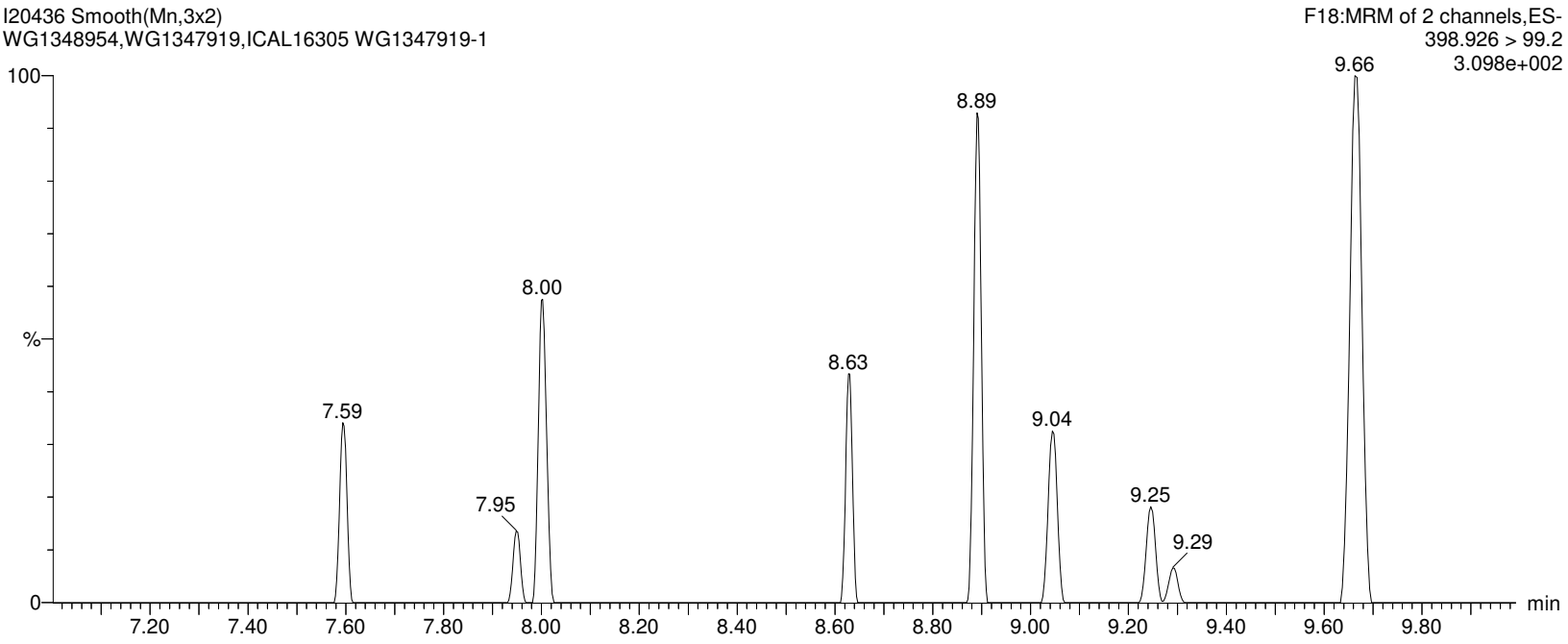

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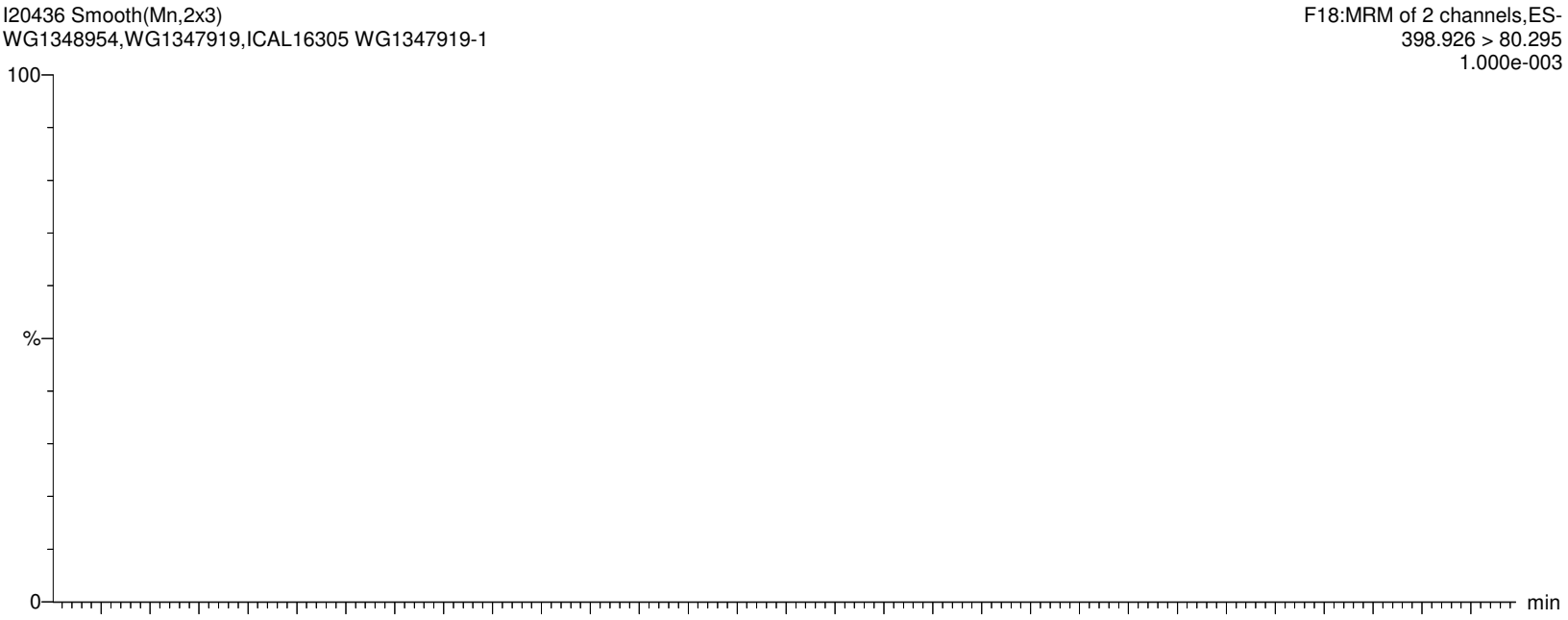

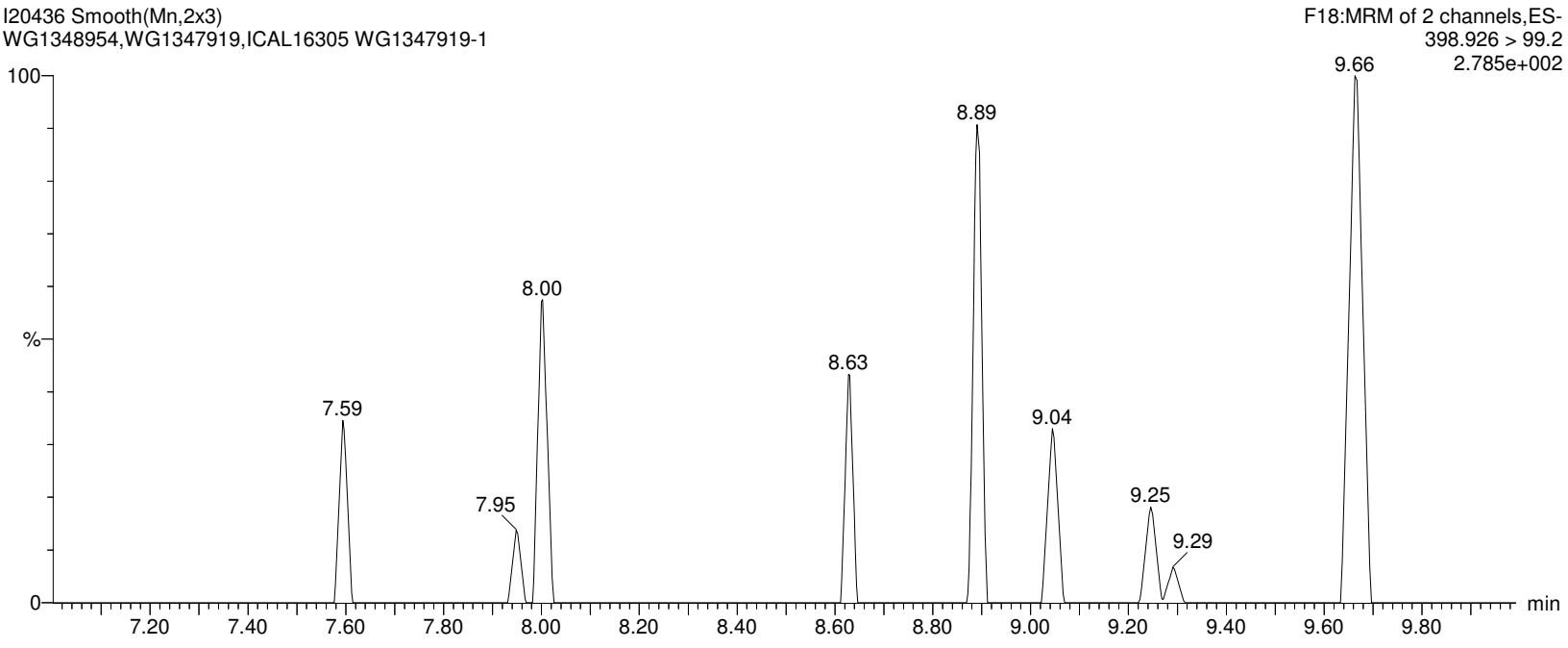

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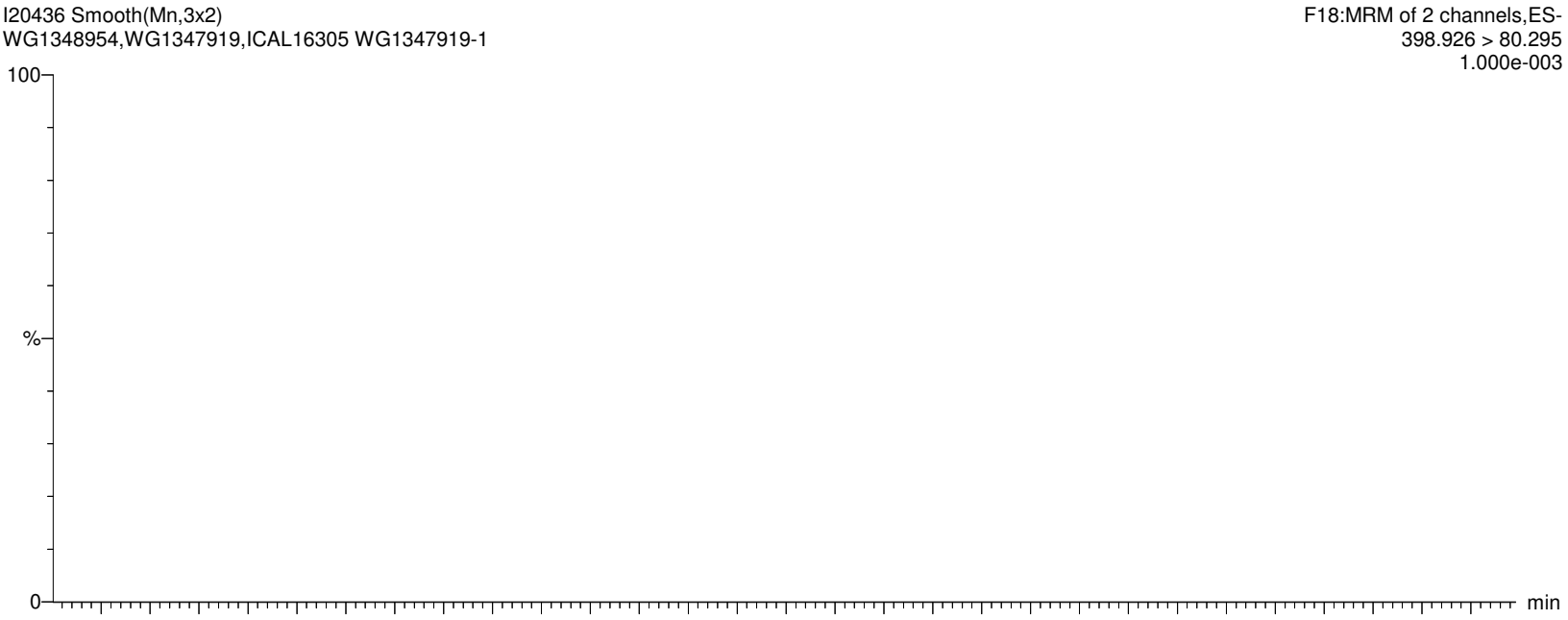

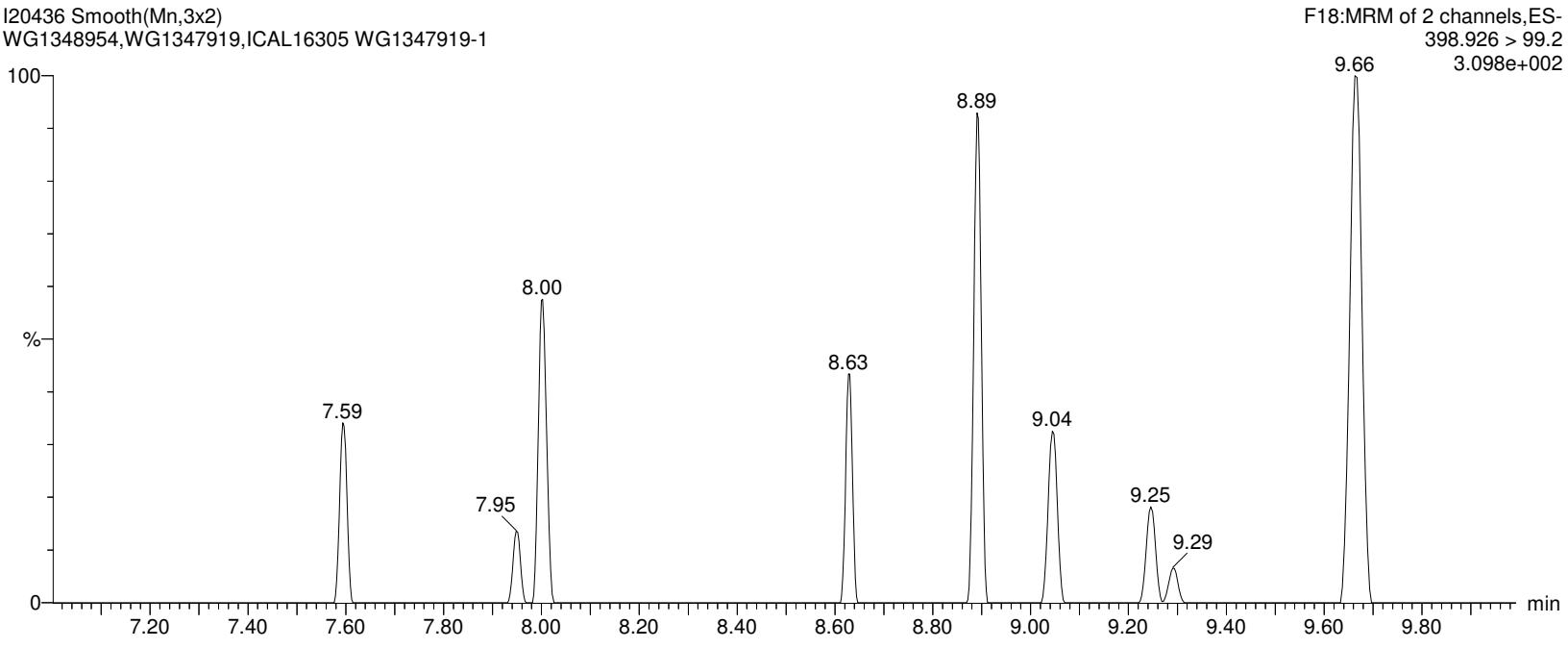

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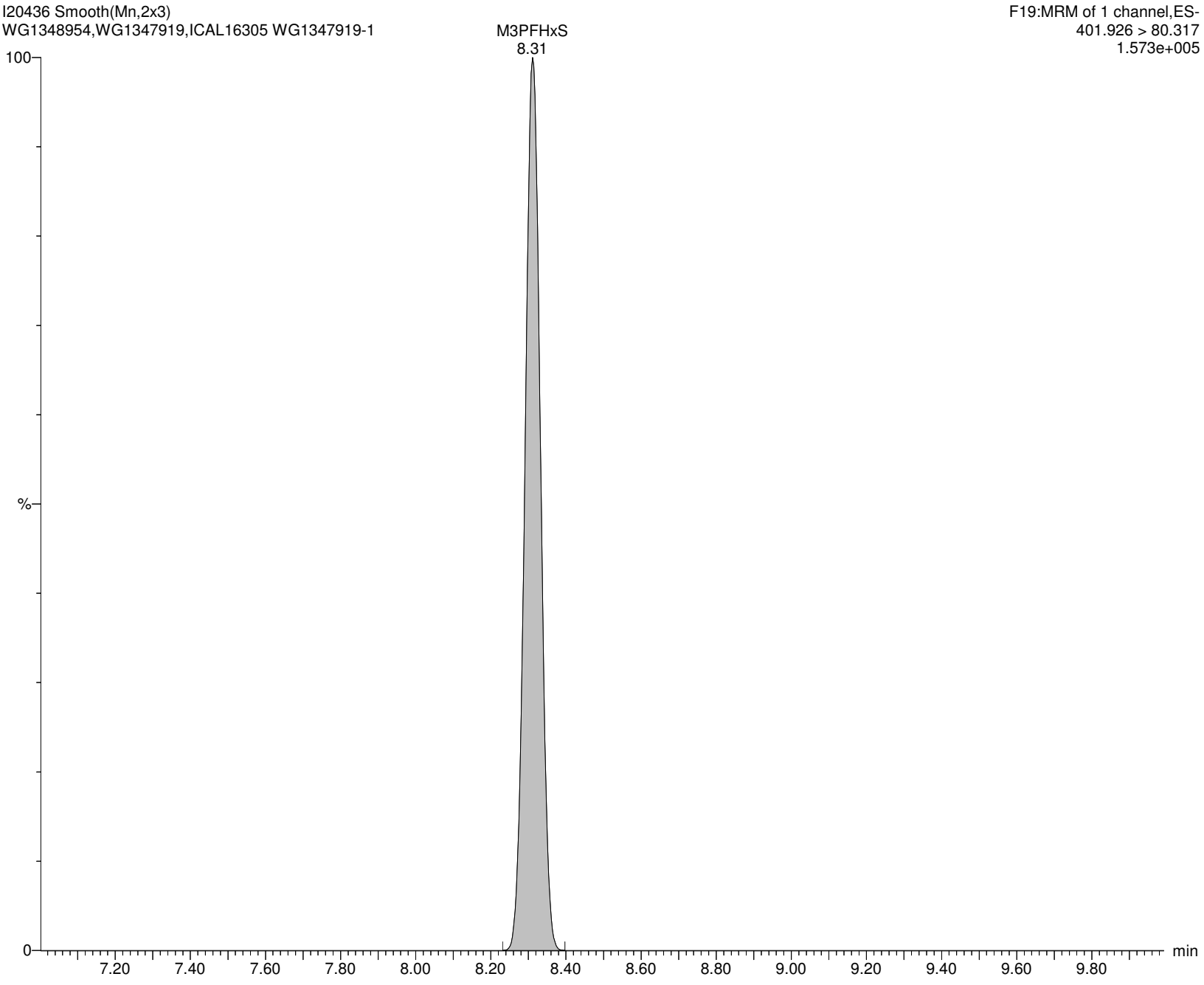

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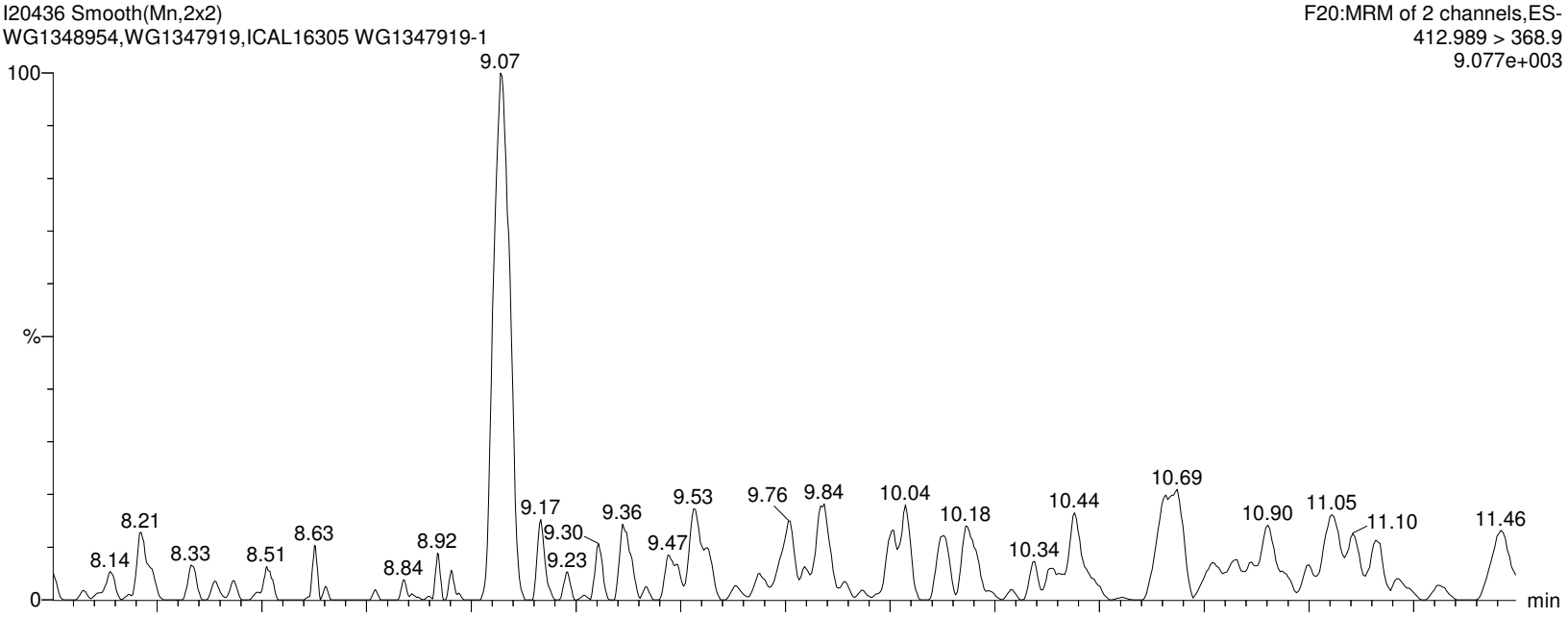

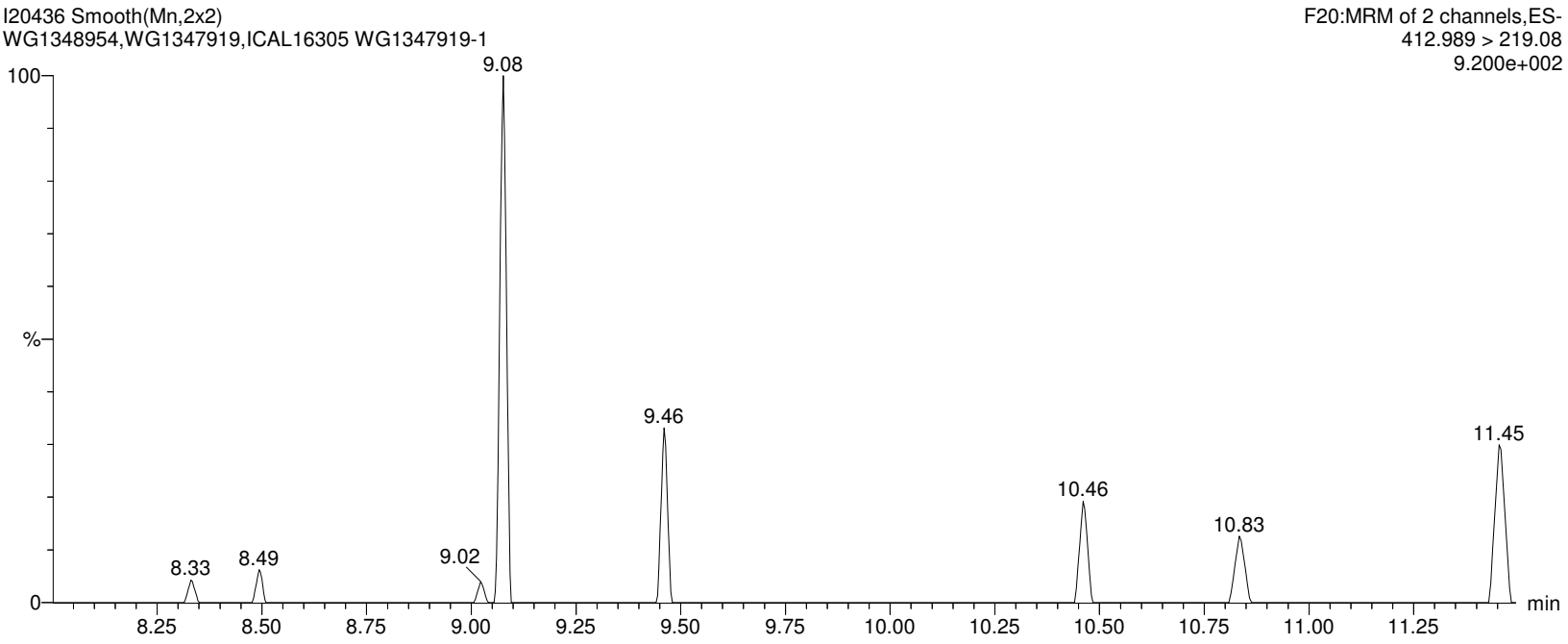

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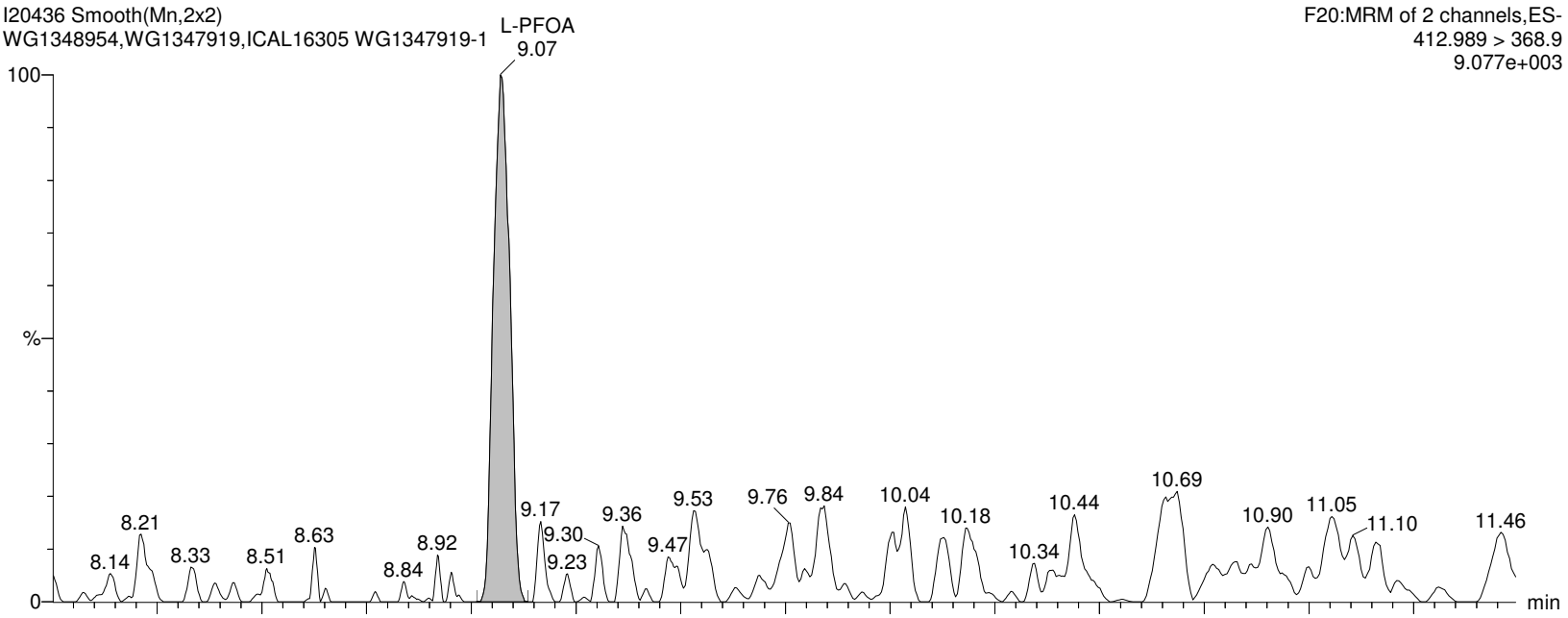

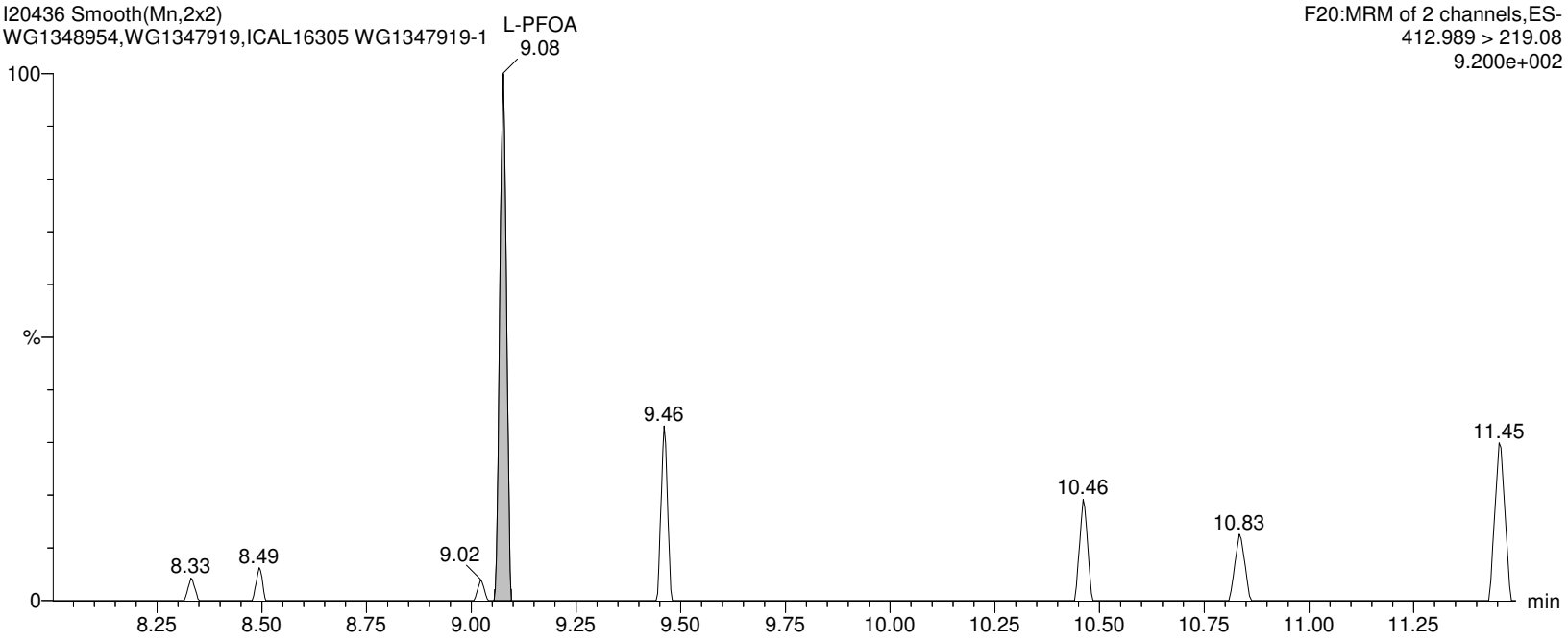

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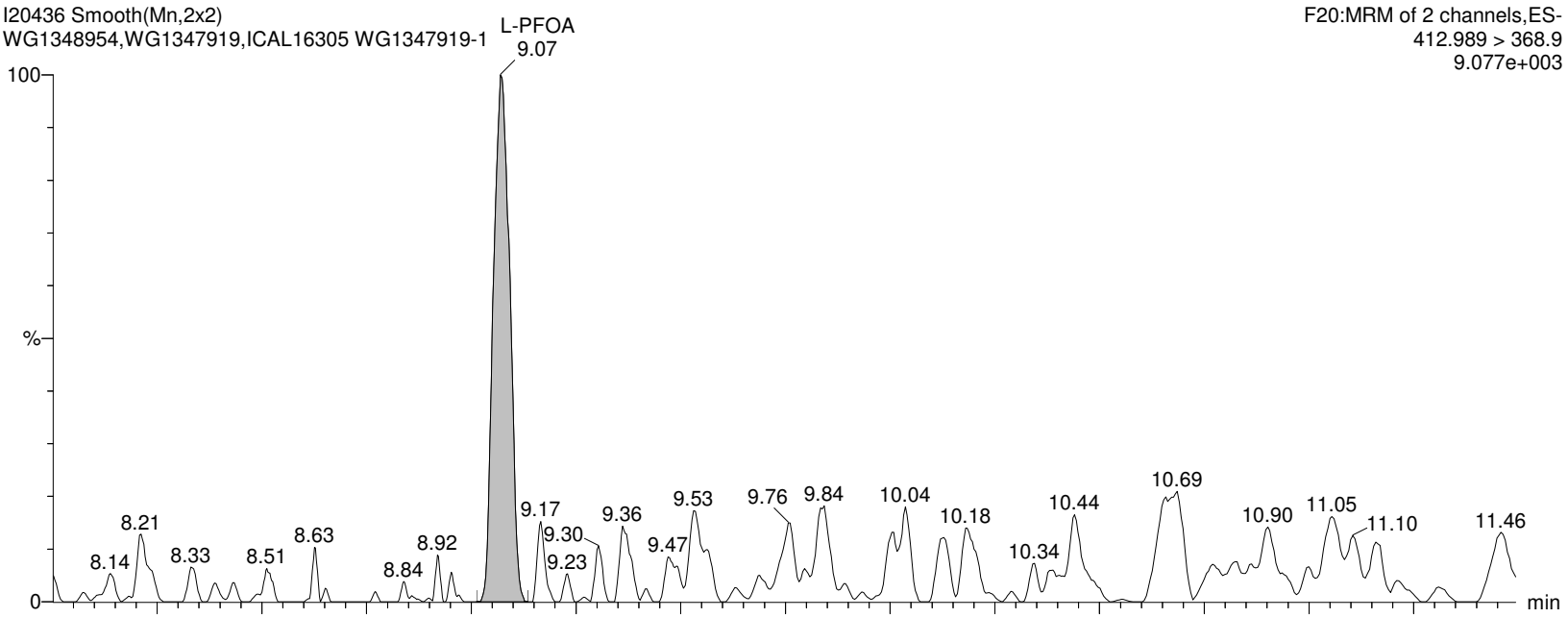

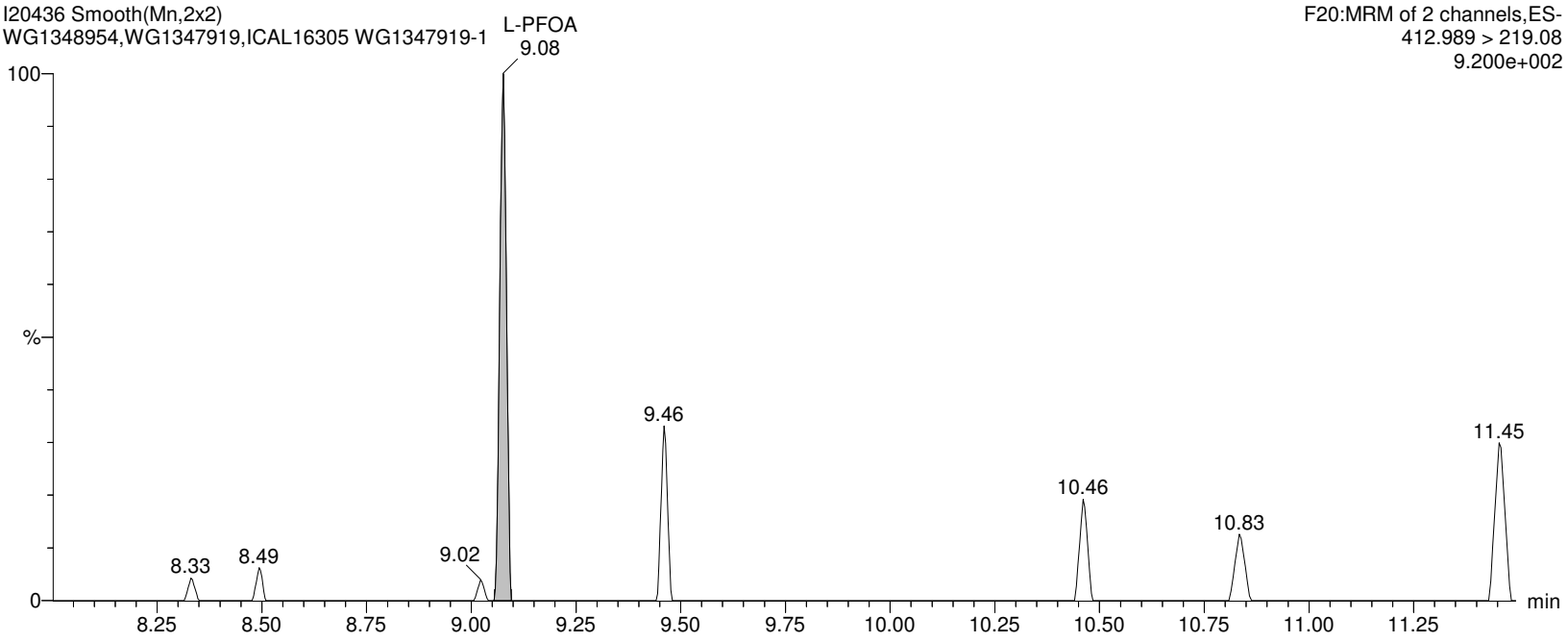

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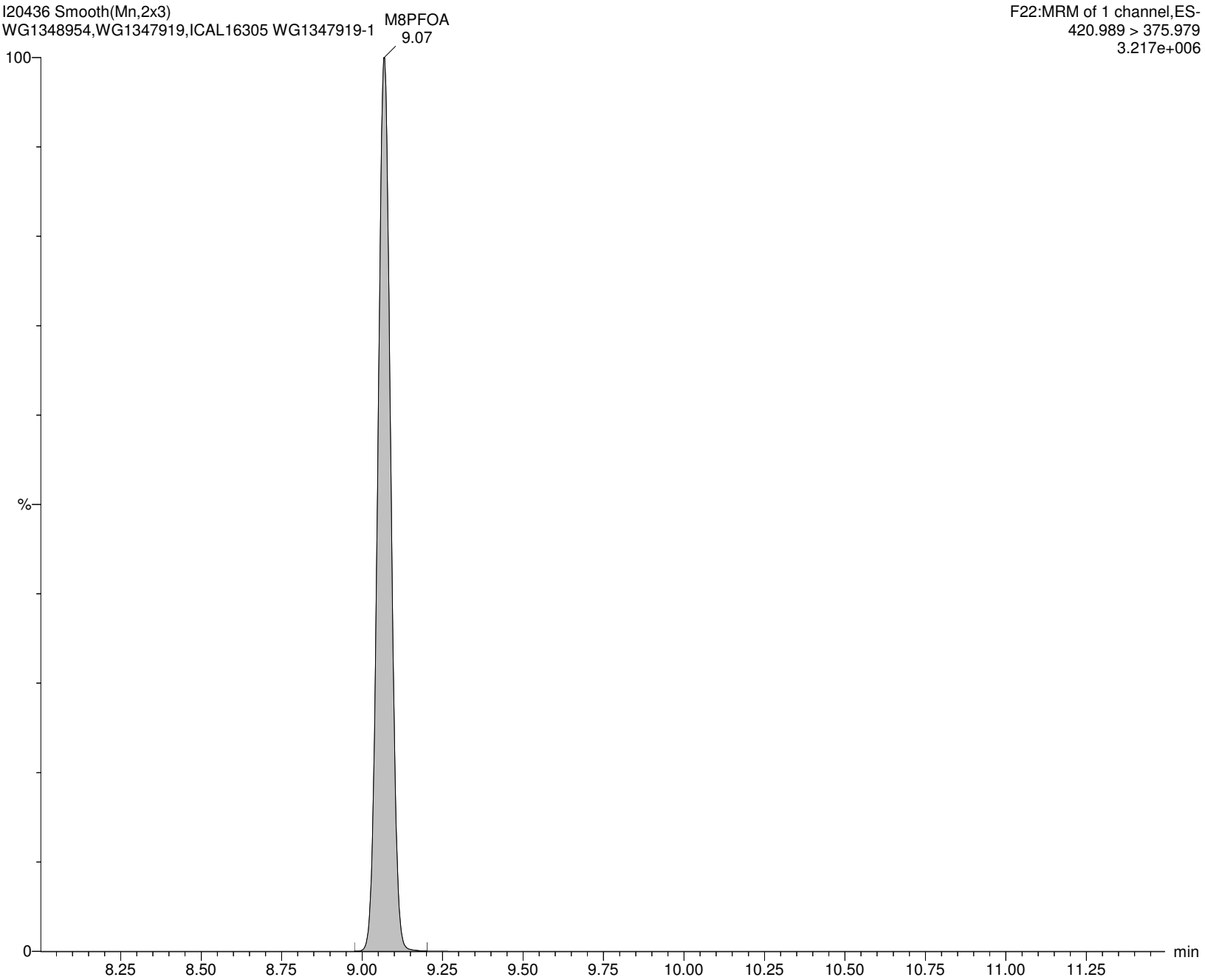

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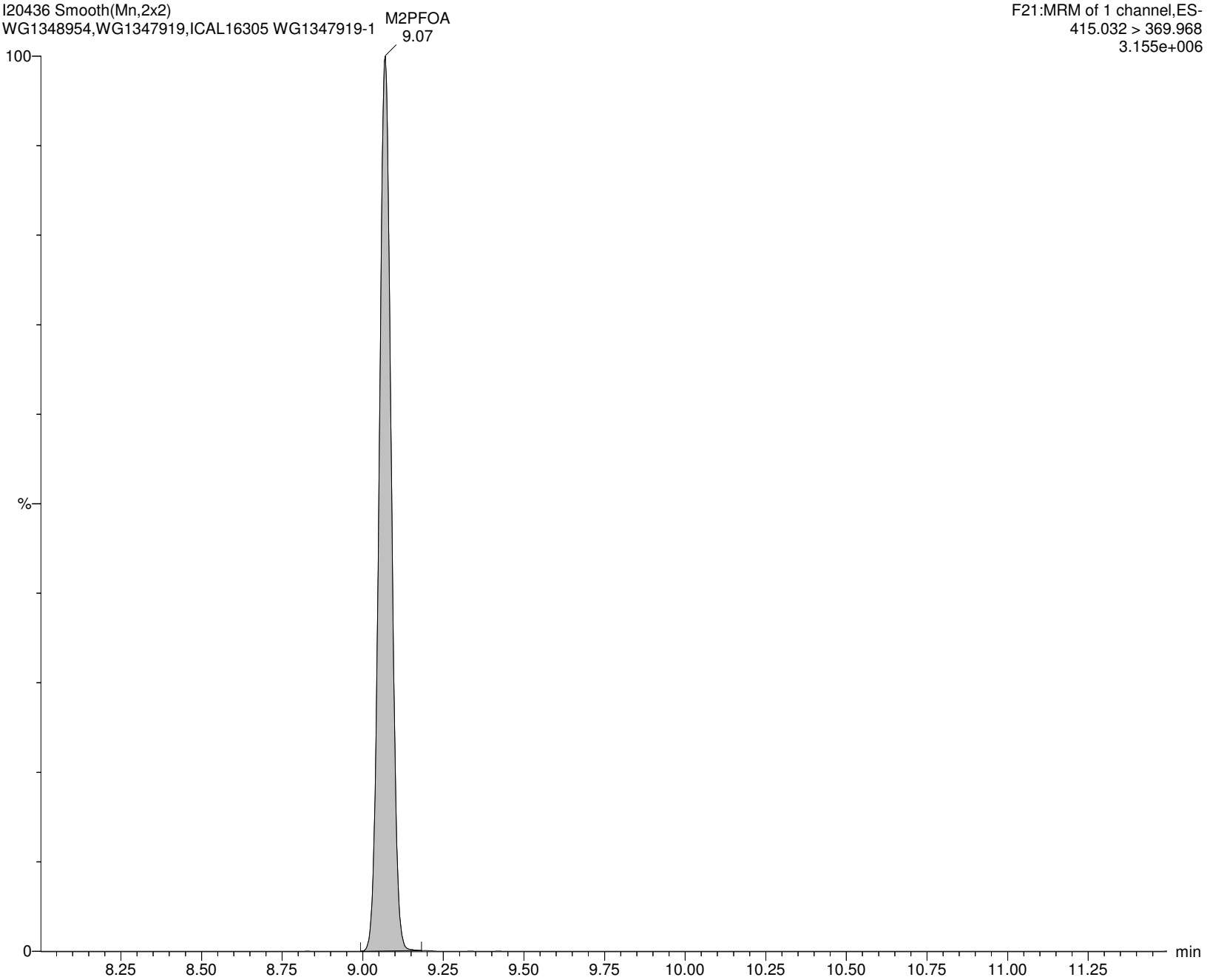

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 09:03:00 Eastern Daylight Time

Name: I20436
ID: WG1347919-1
Date: 10-Mar-2020
Time: 21:37:46
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 1:E,7
Instrument: XEVO-TQSmicro#QEB0050
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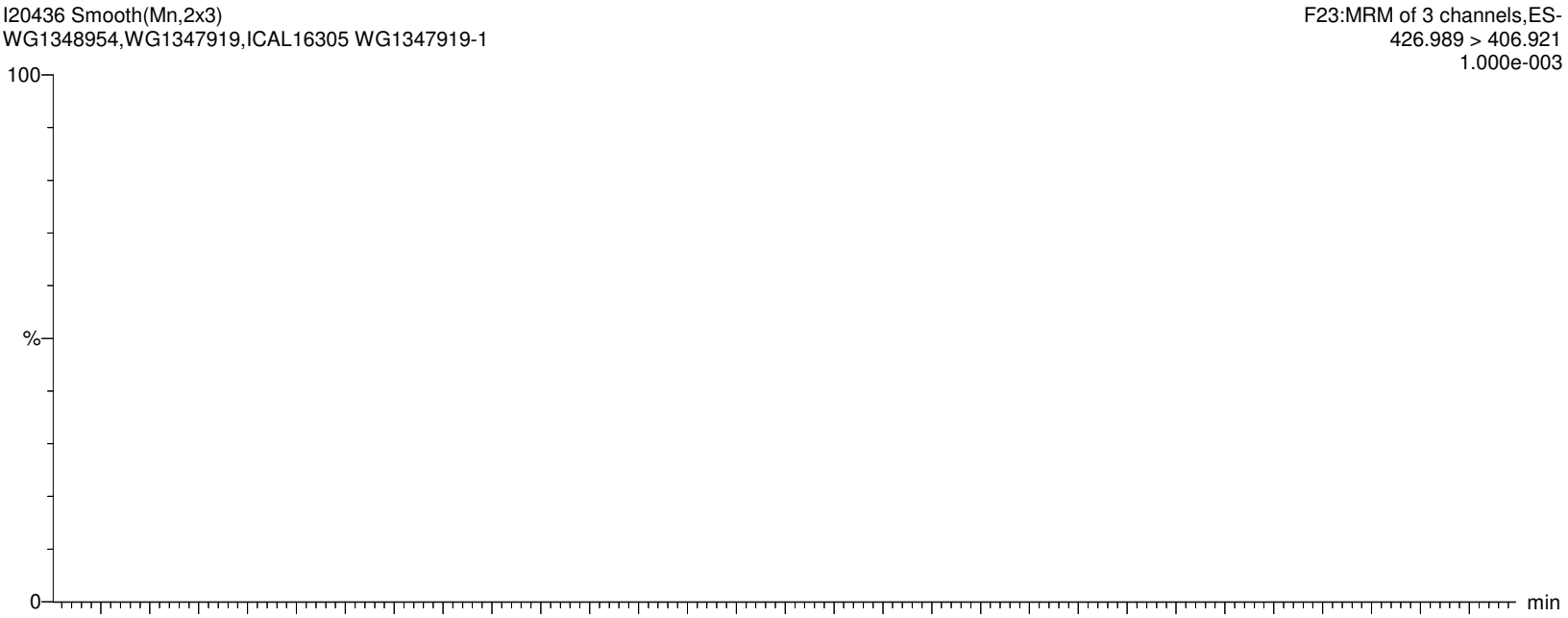

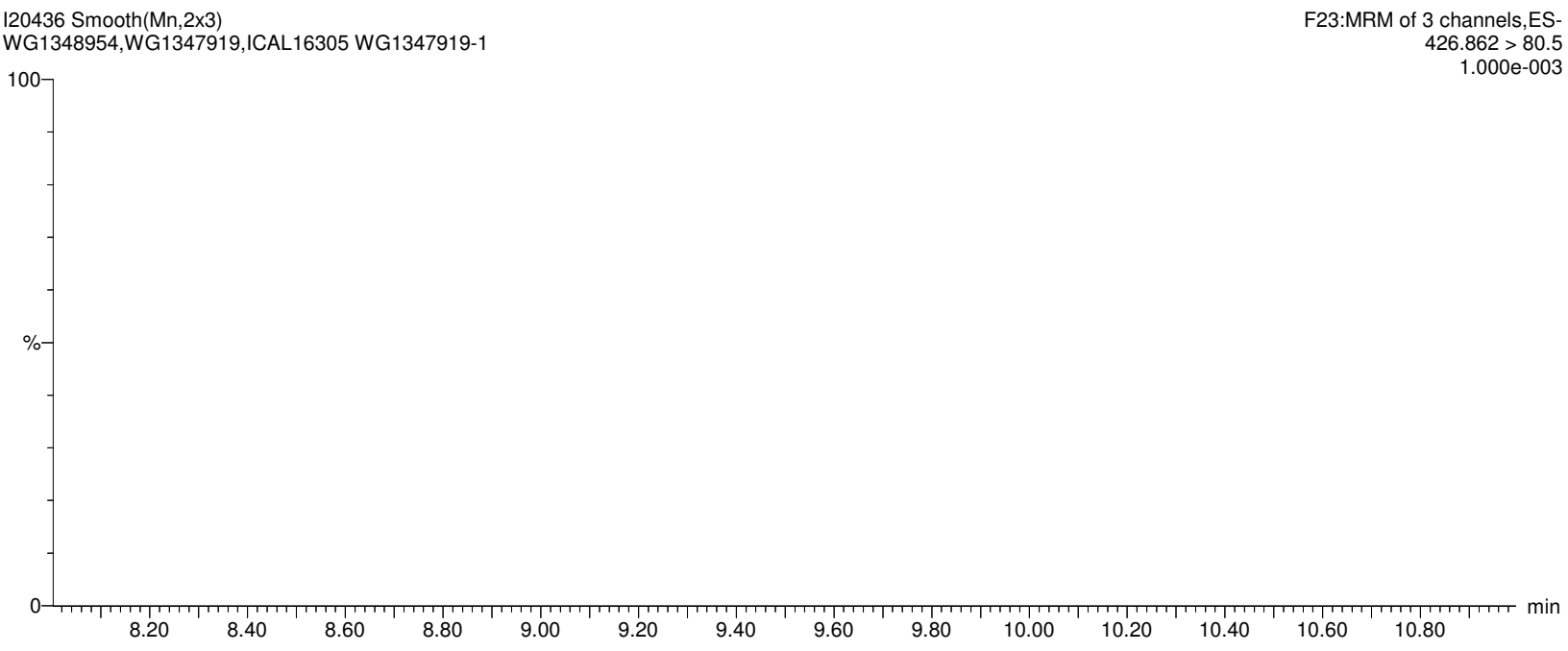

all concentration units in (ng/mL)

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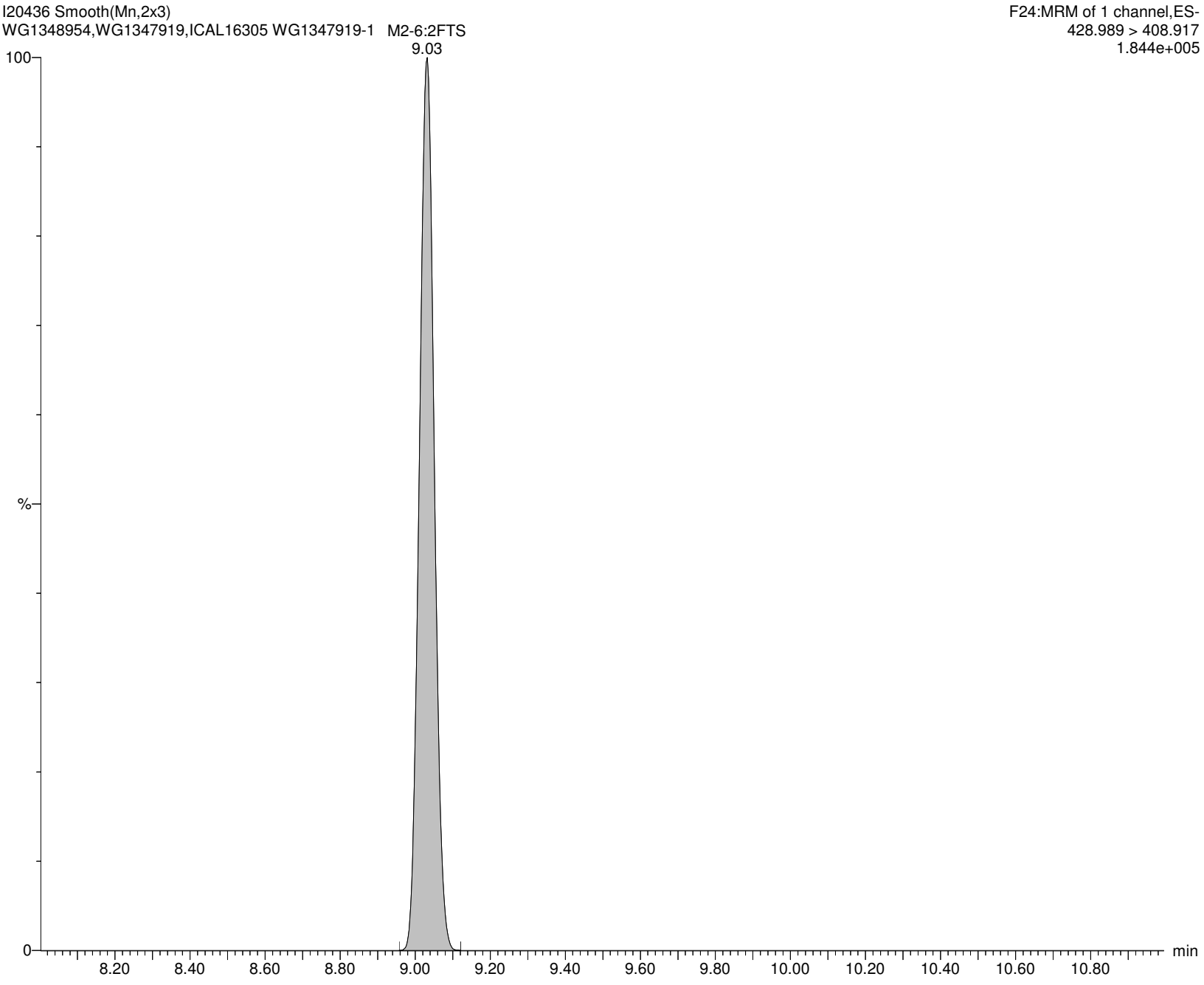

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
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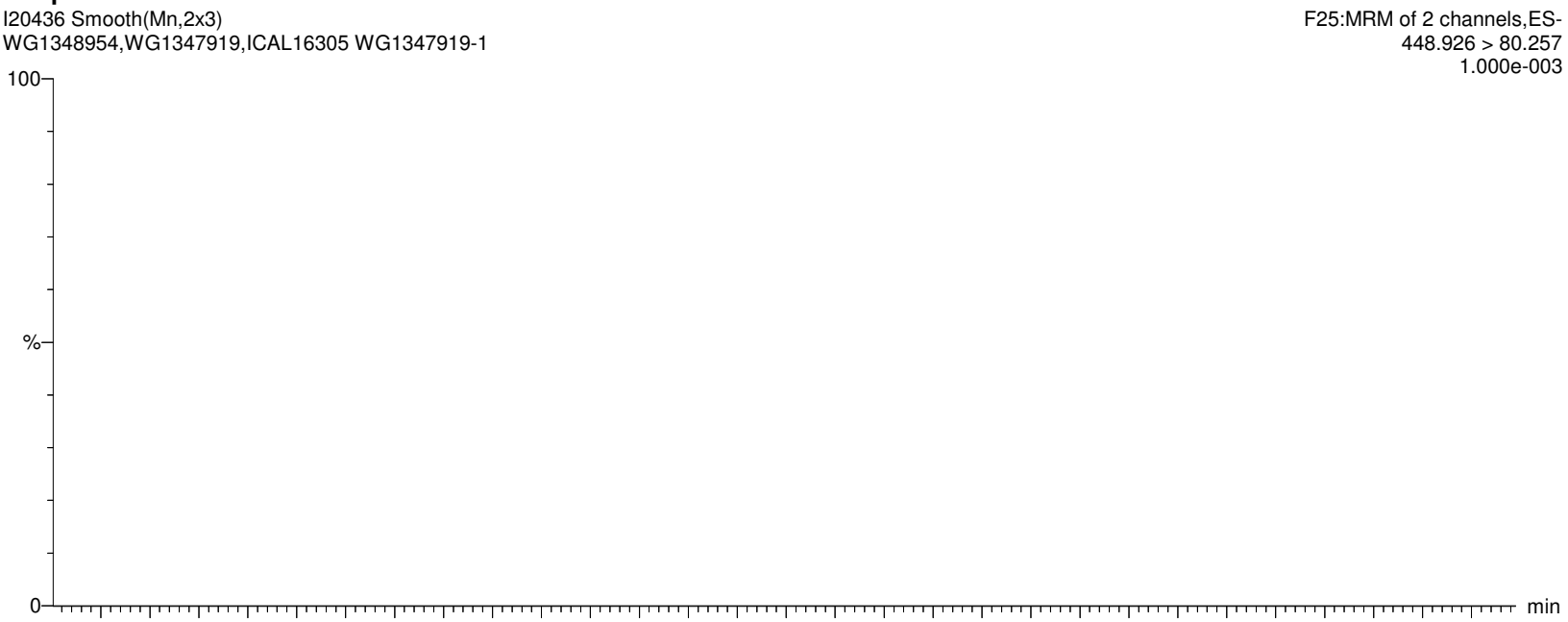

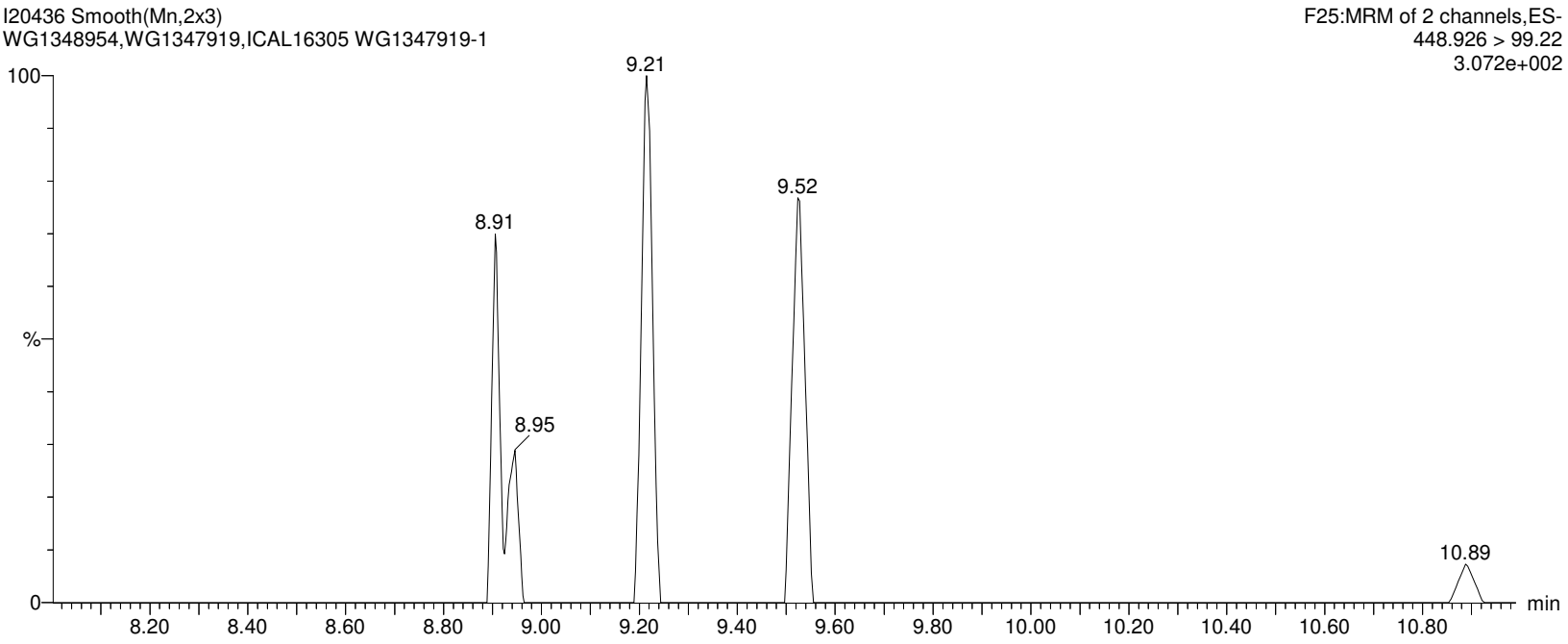

all concentration units in (ng/mL)

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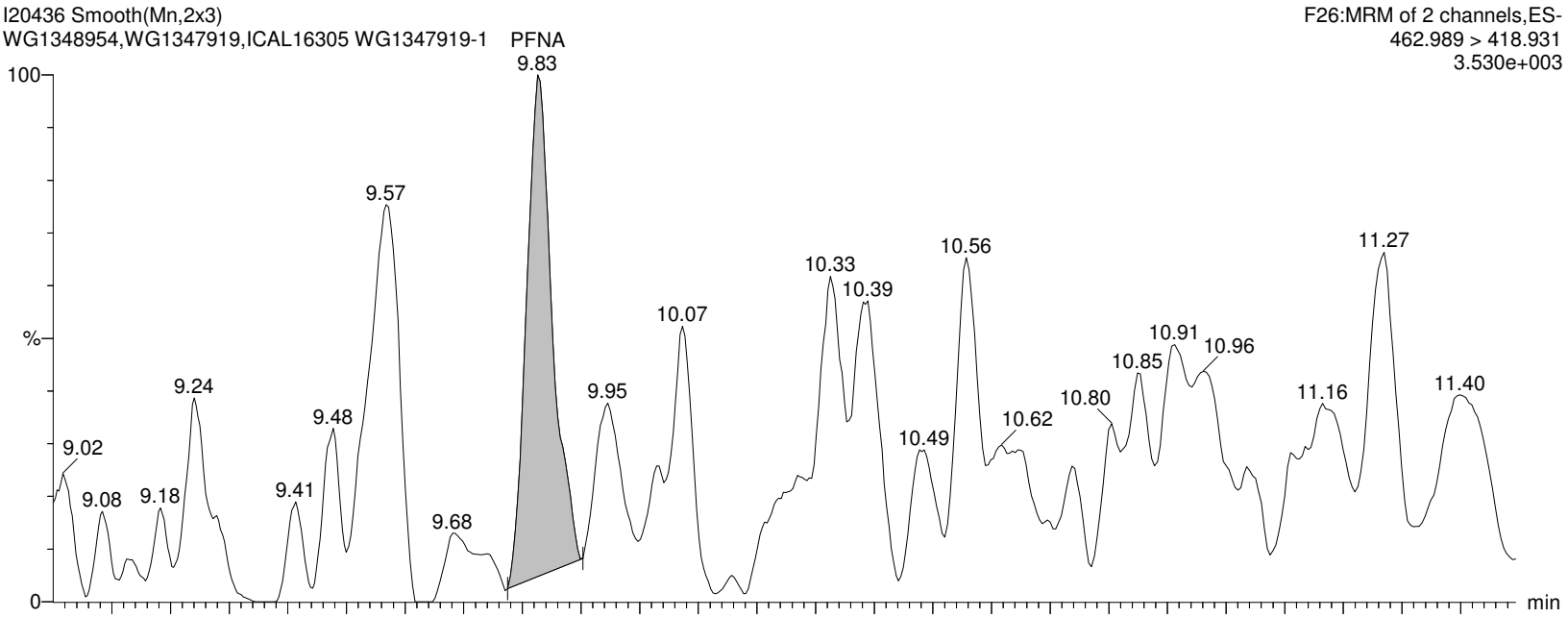

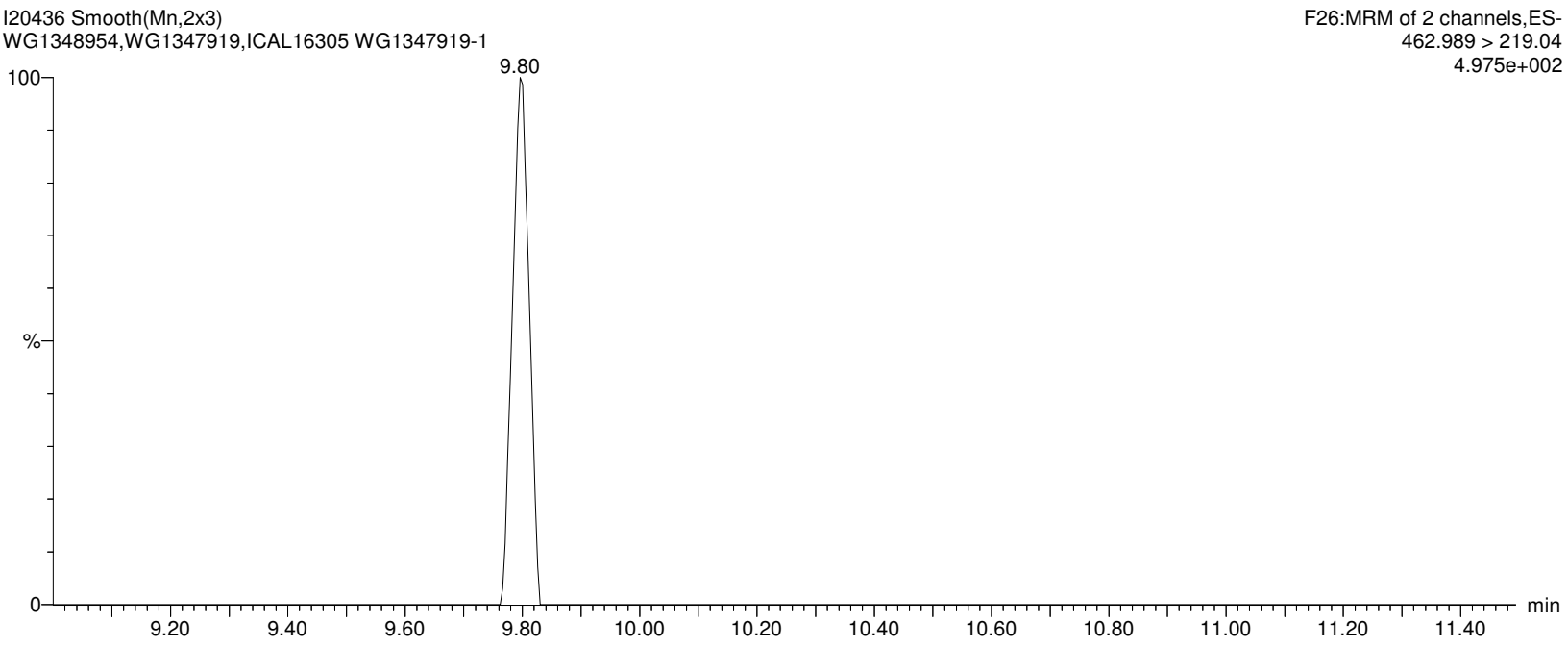

all concentration units in (ng/mL)

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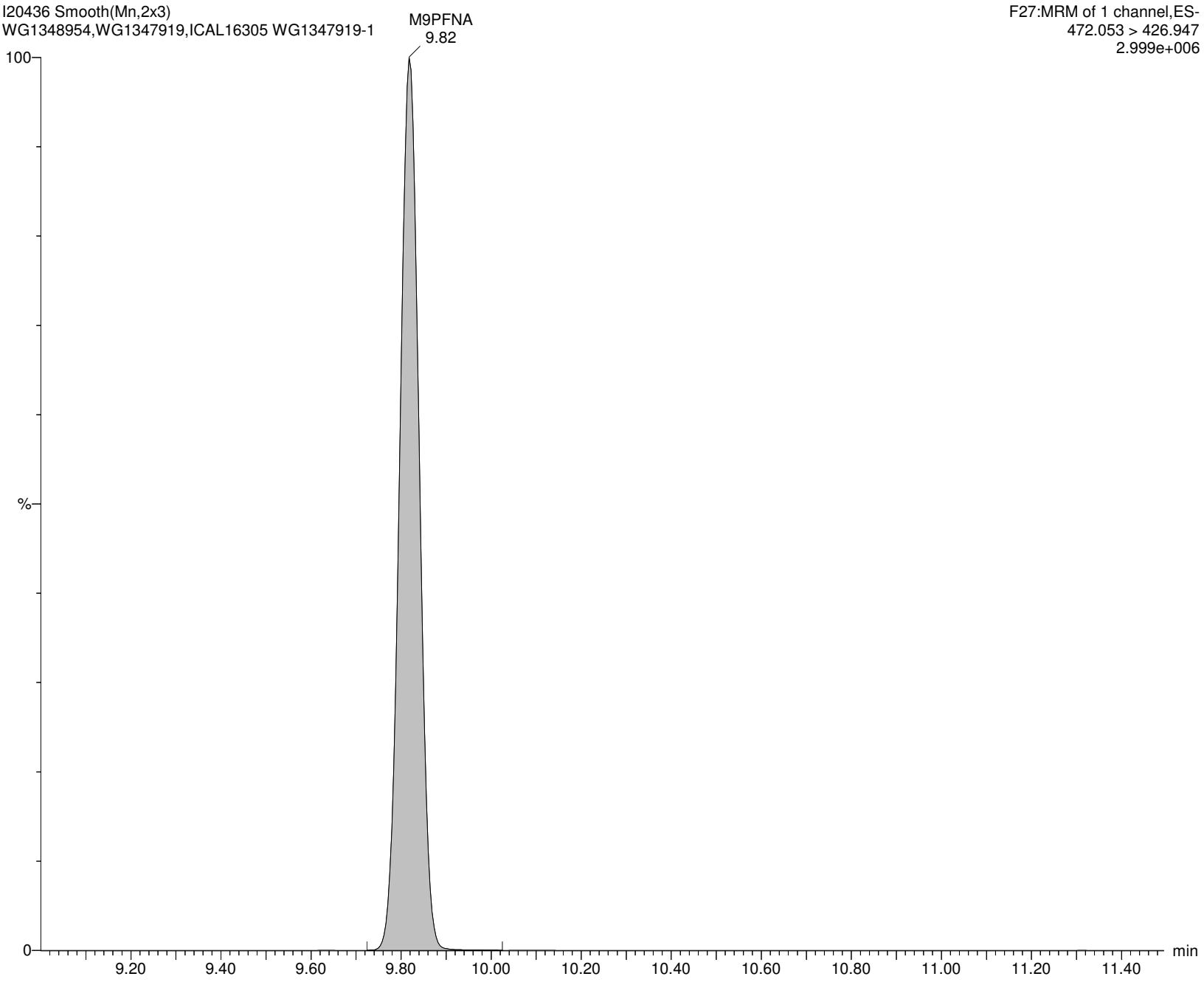

all concentration units in (ng/mL)

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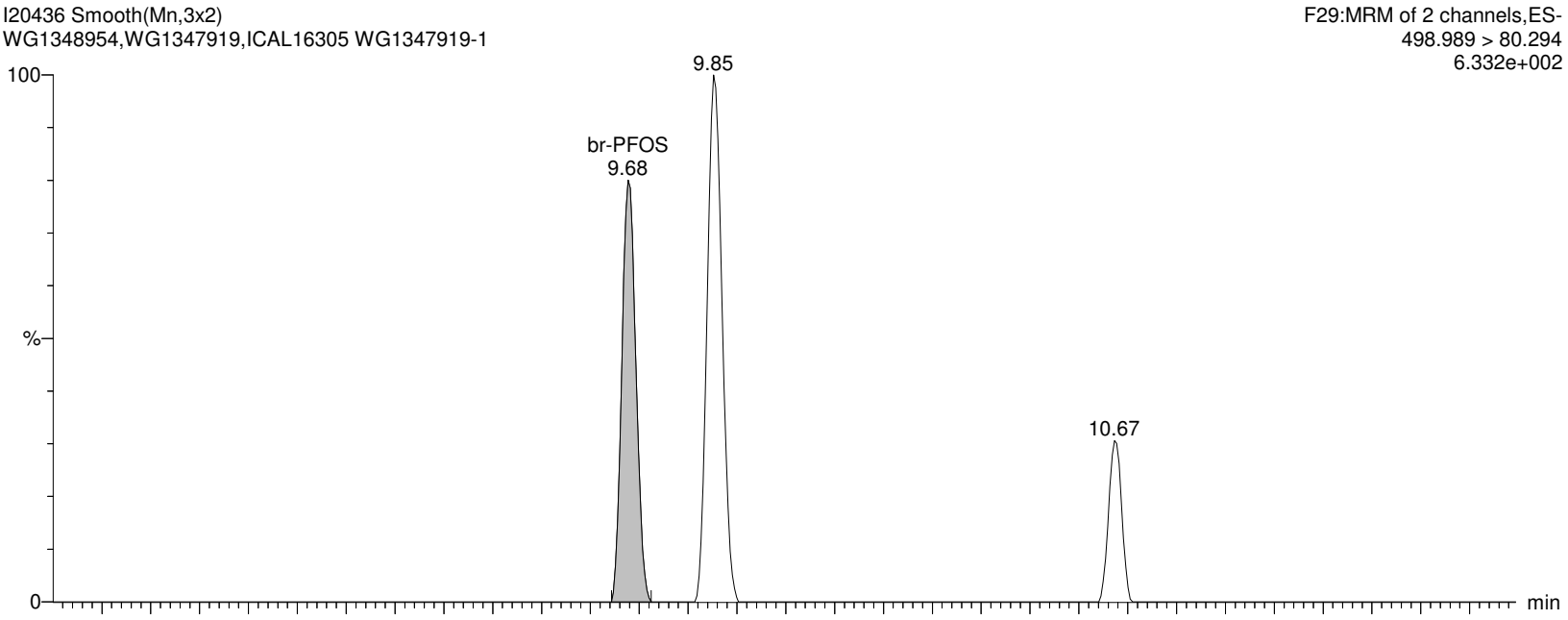

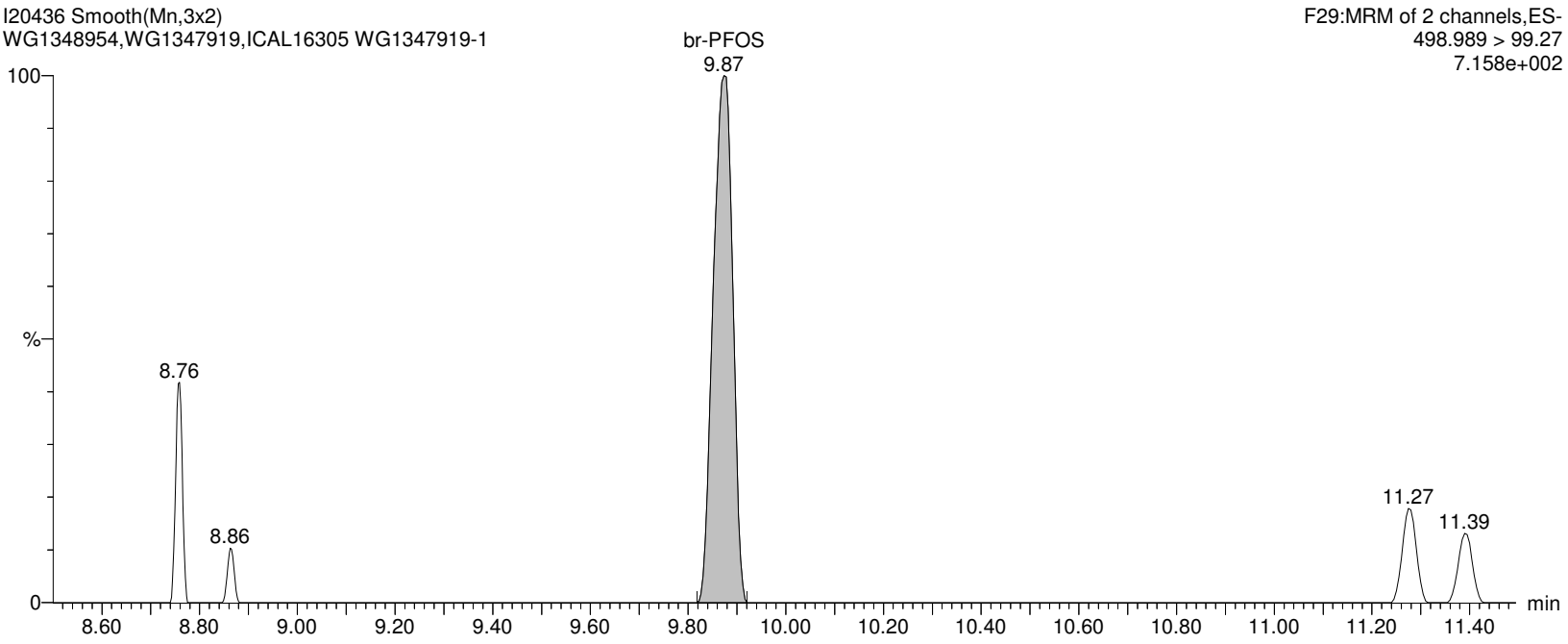

all concentration units in (ng/mL)

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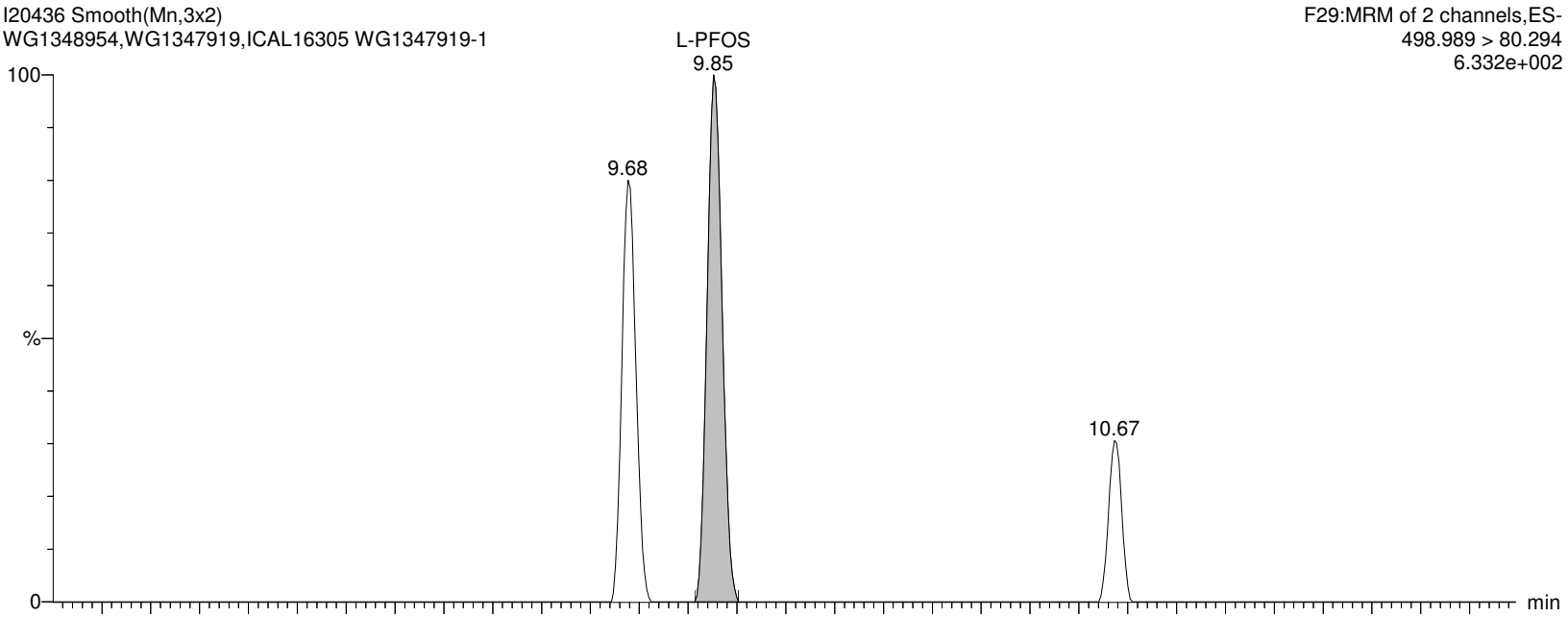

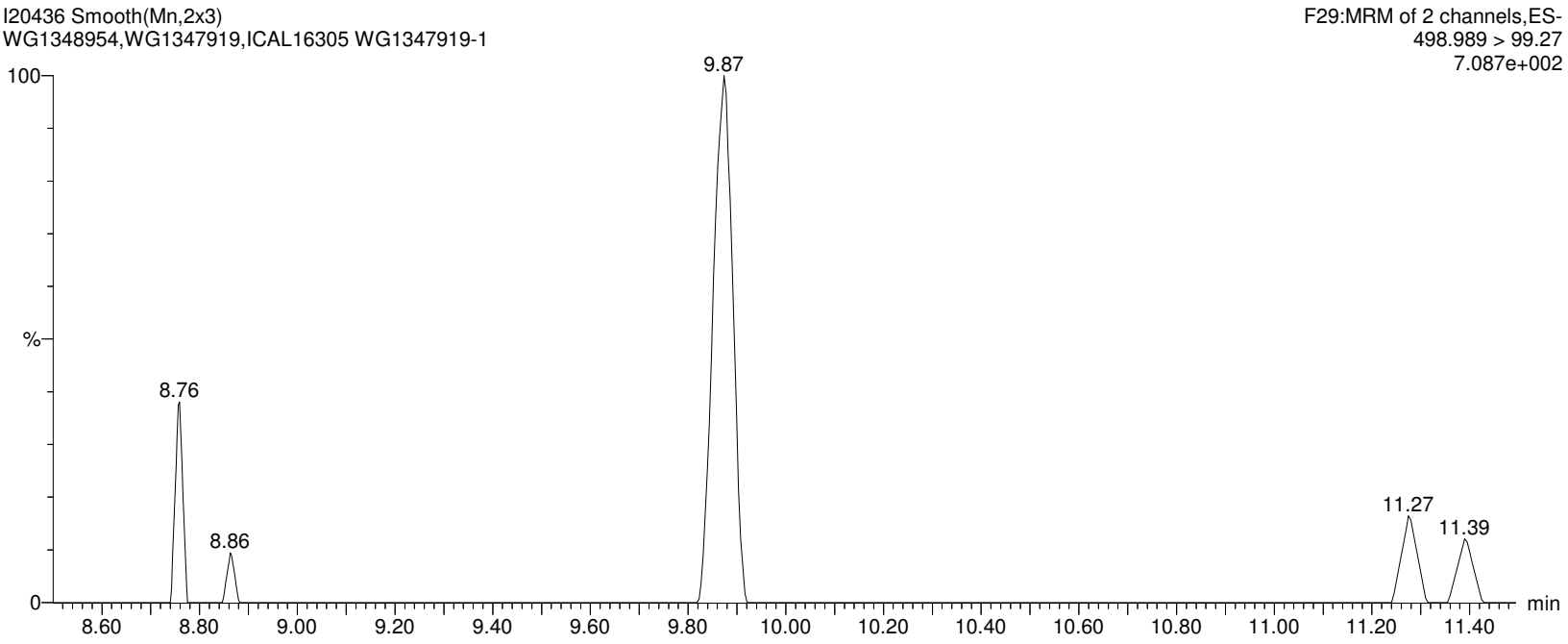

all concentration units in (ng/mL)

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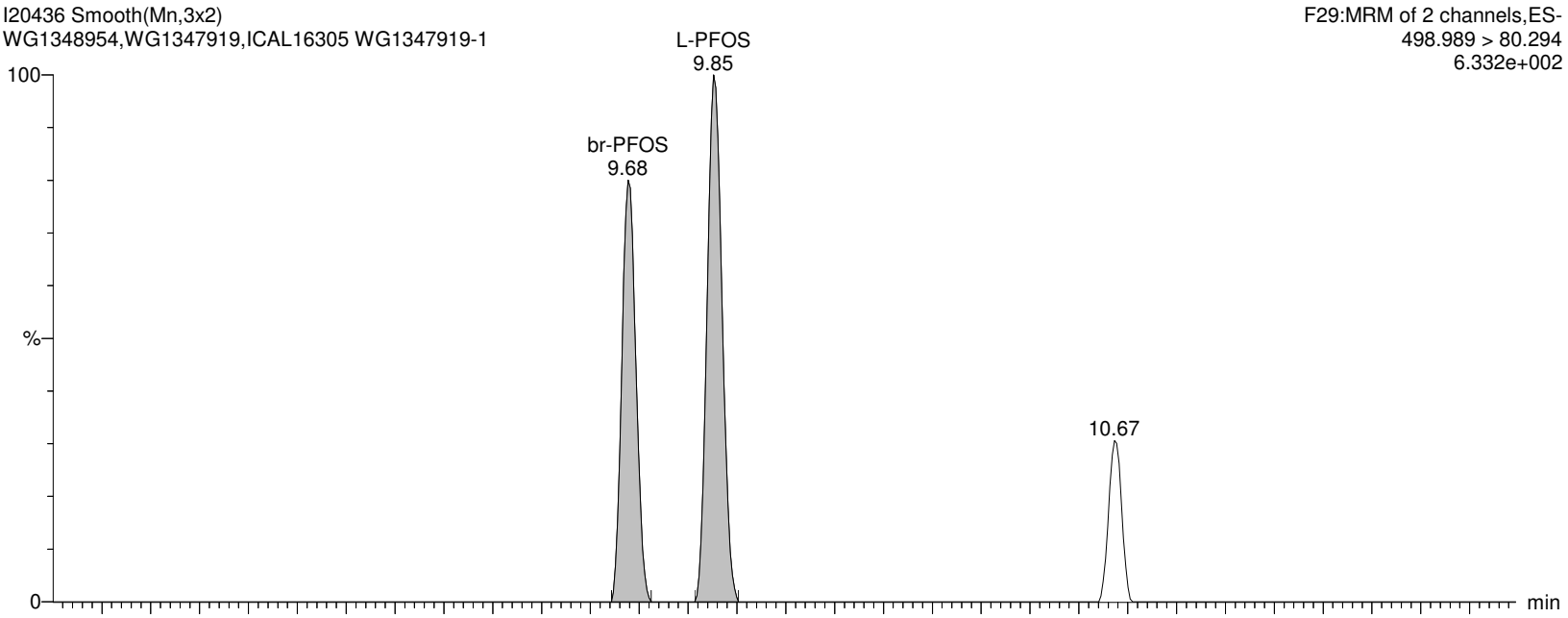
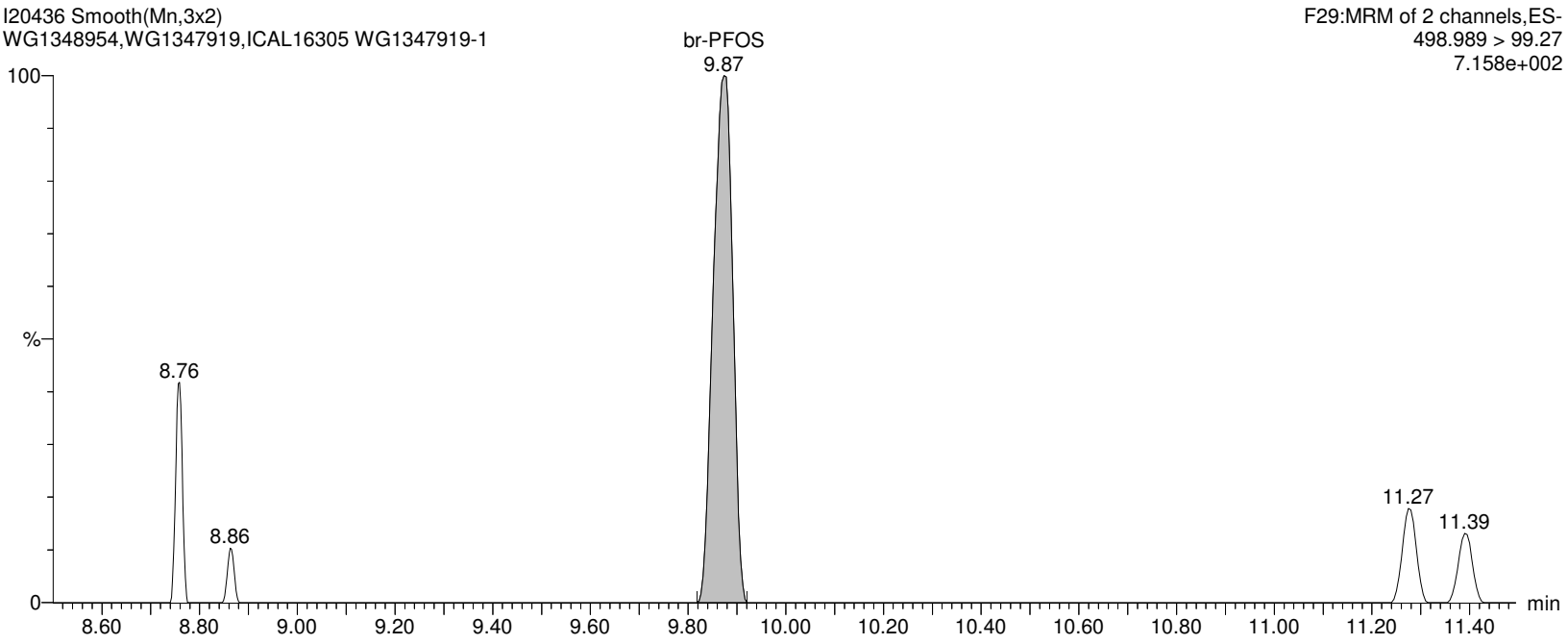
PFOS





all concentration units in (ng/mL)

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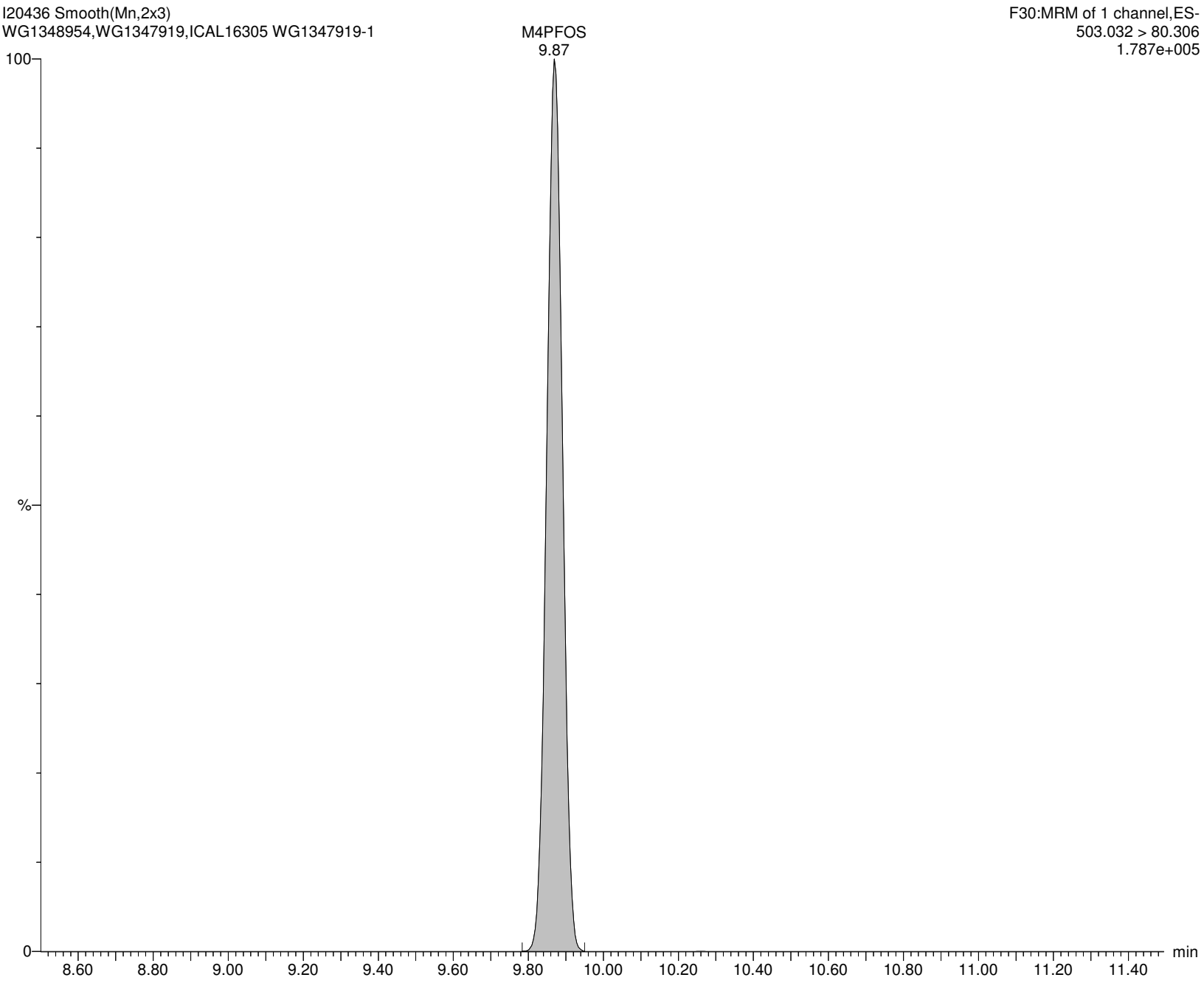

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
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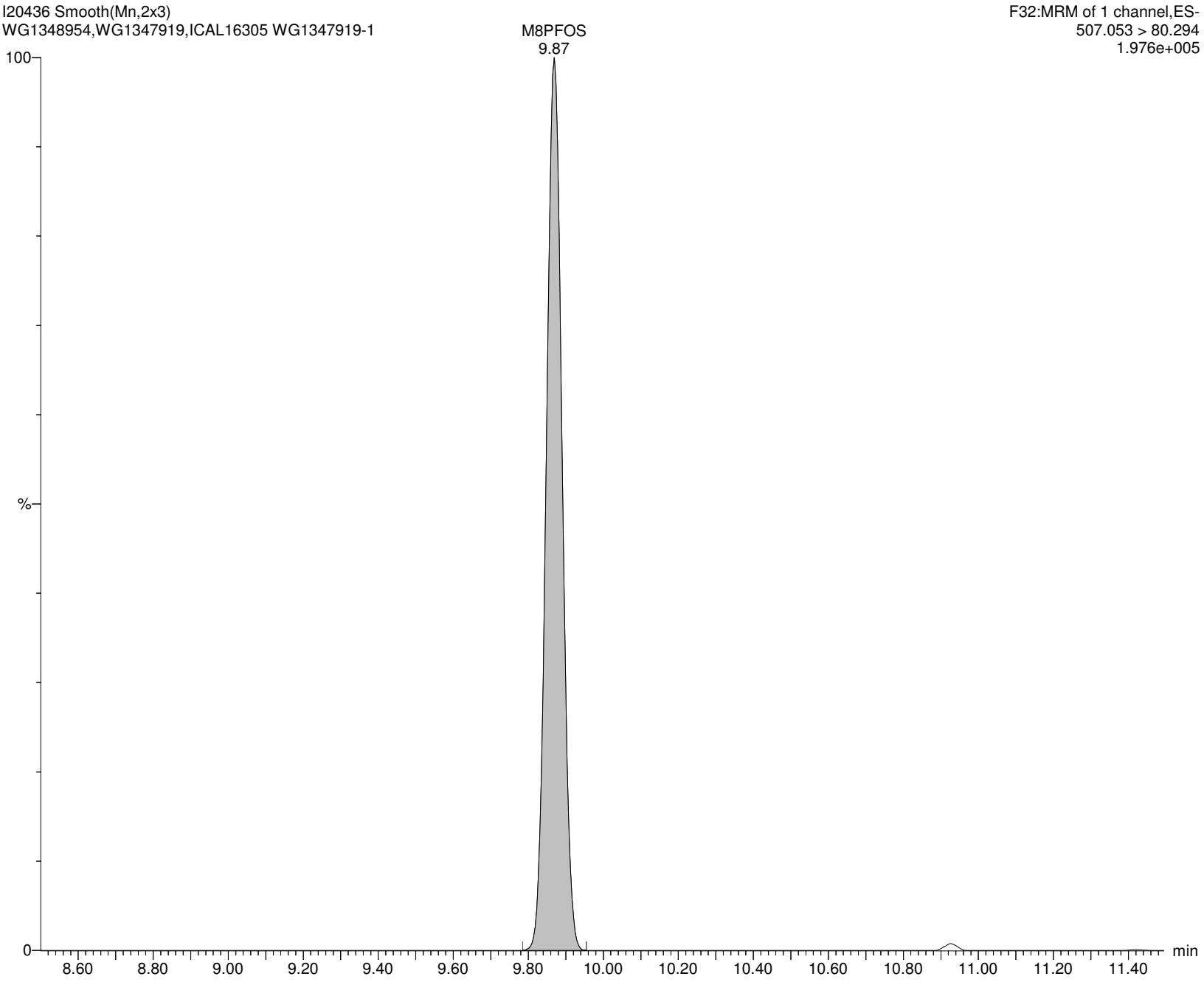

all concentration units in (ng/mL)

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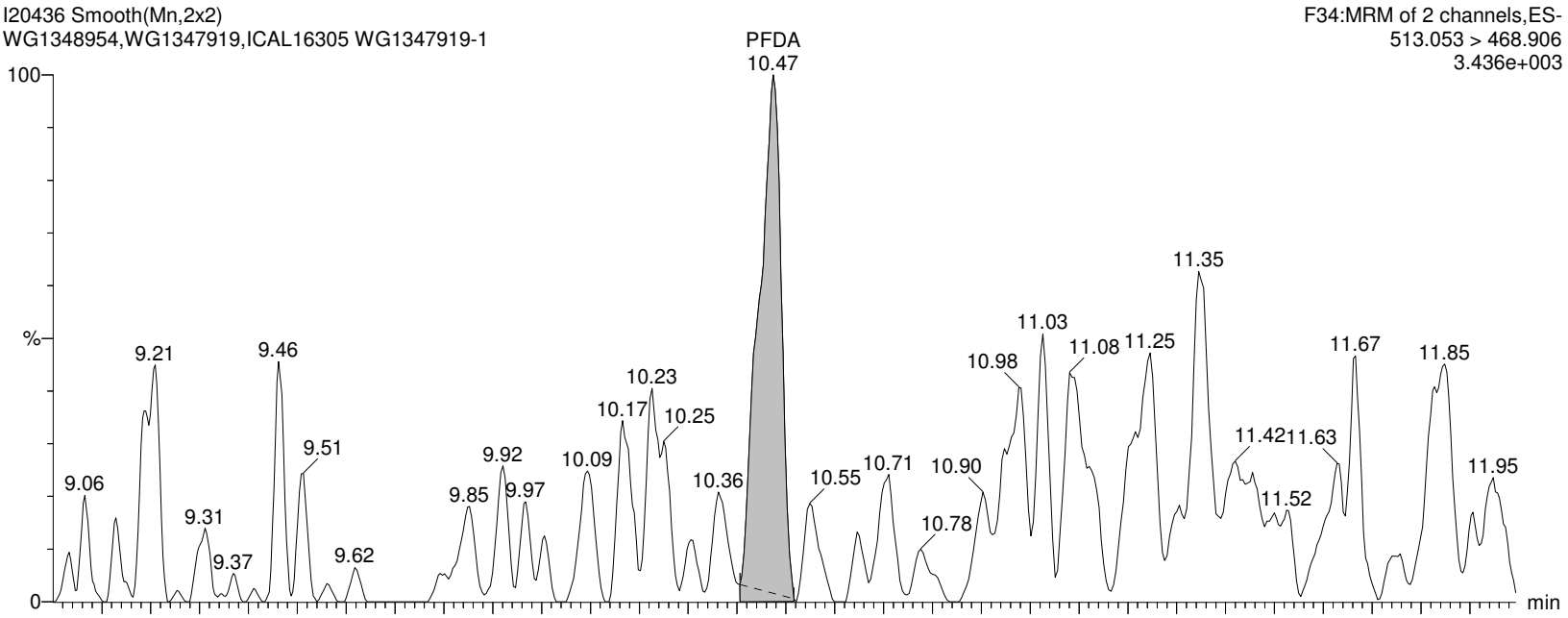

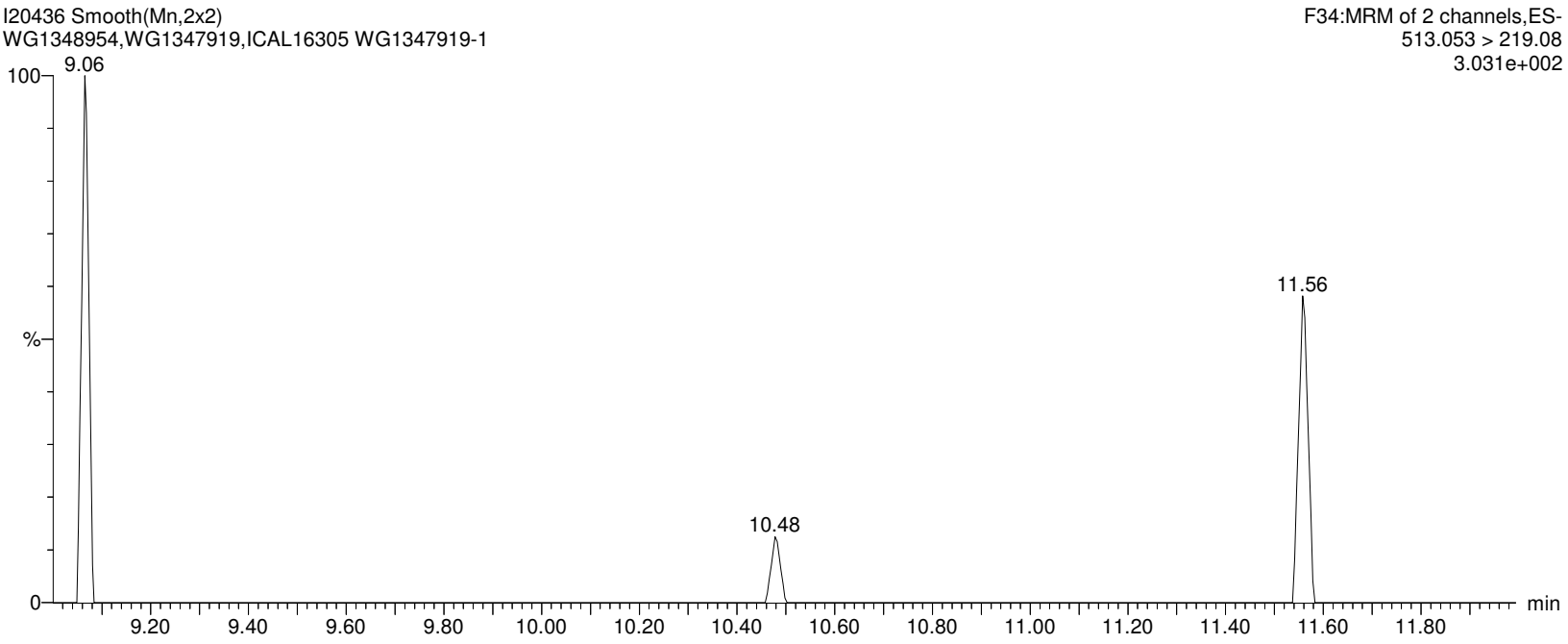

all concentration units in (ng/mL)

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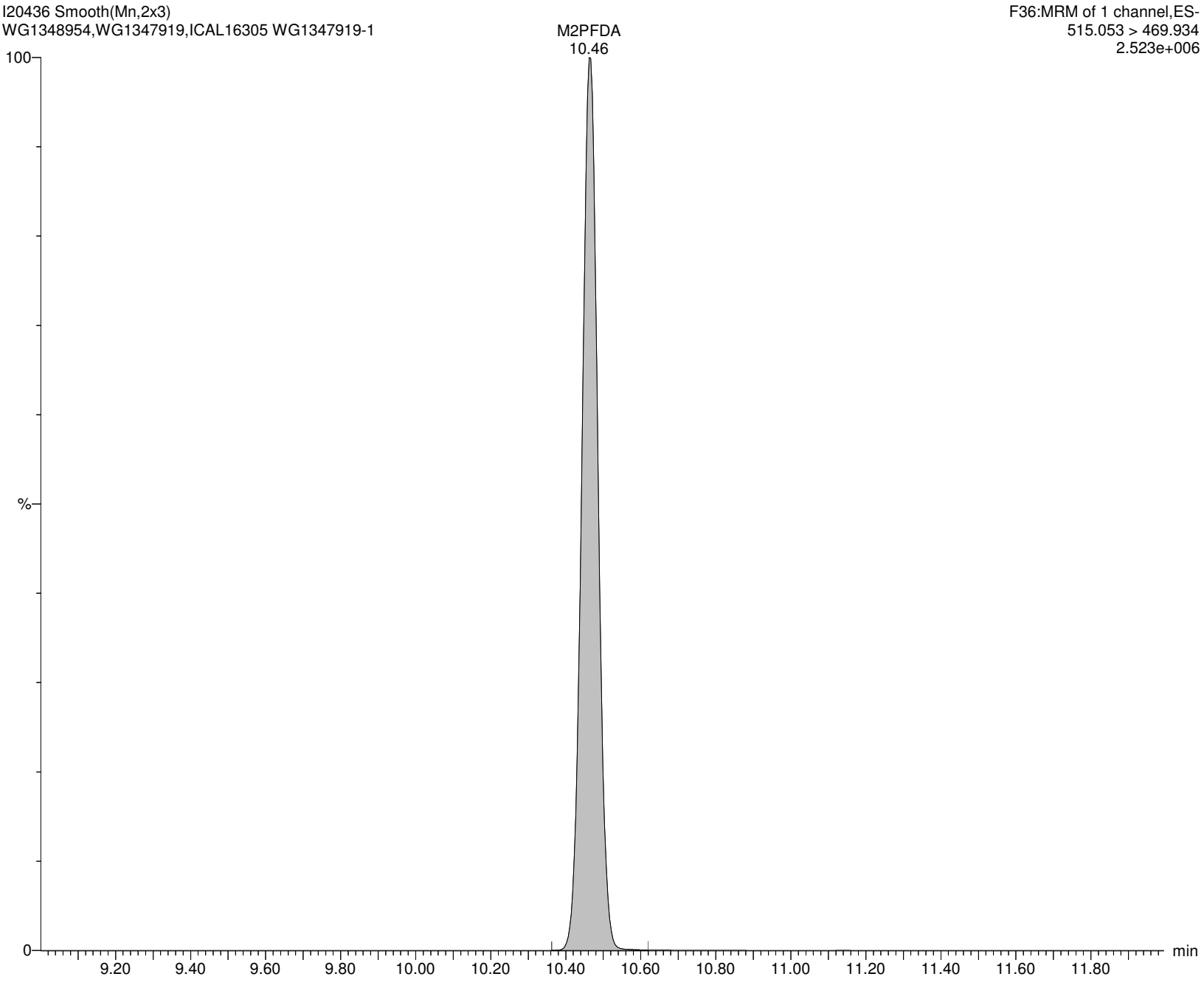

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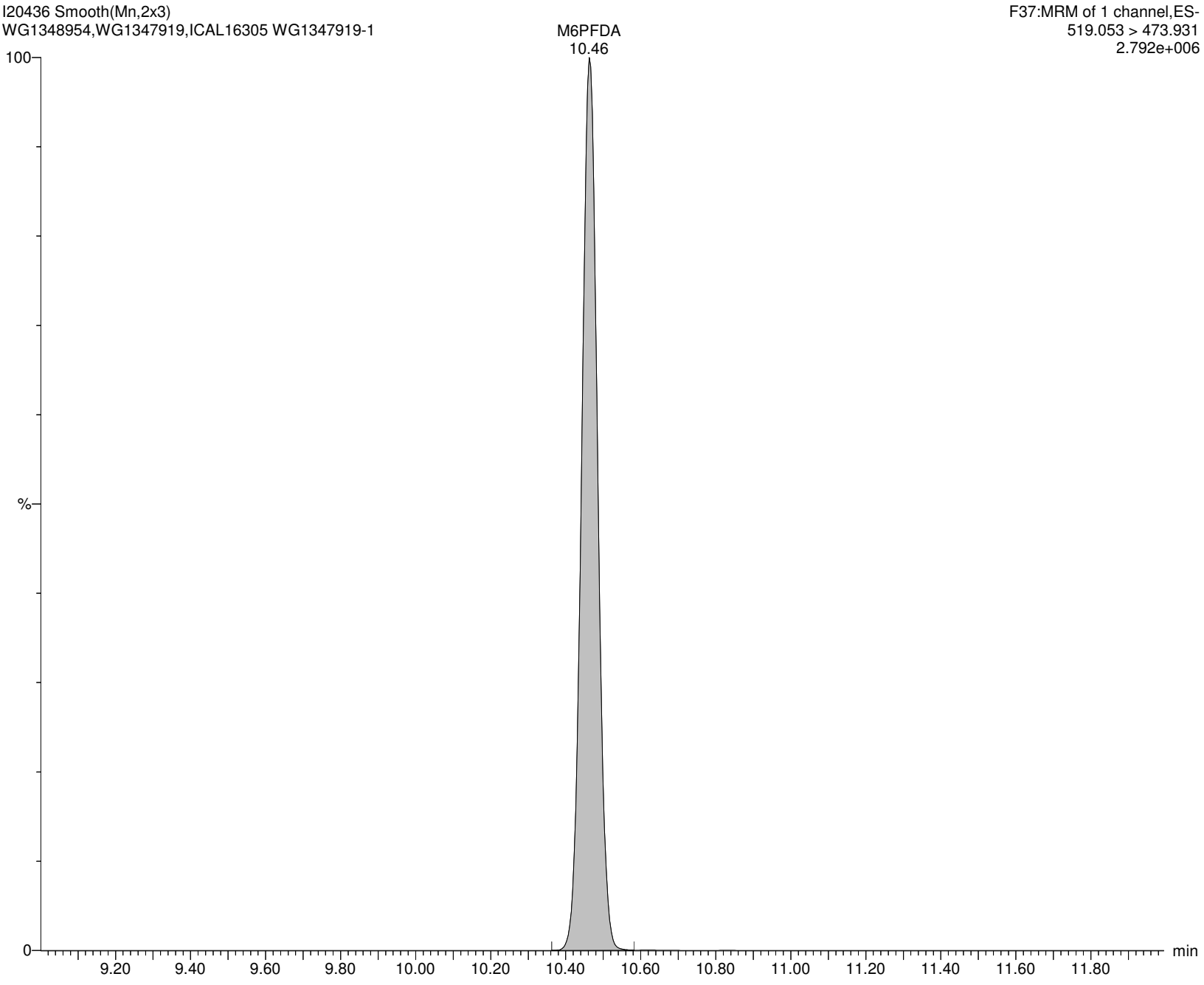

all concentration units in (ng/mL)

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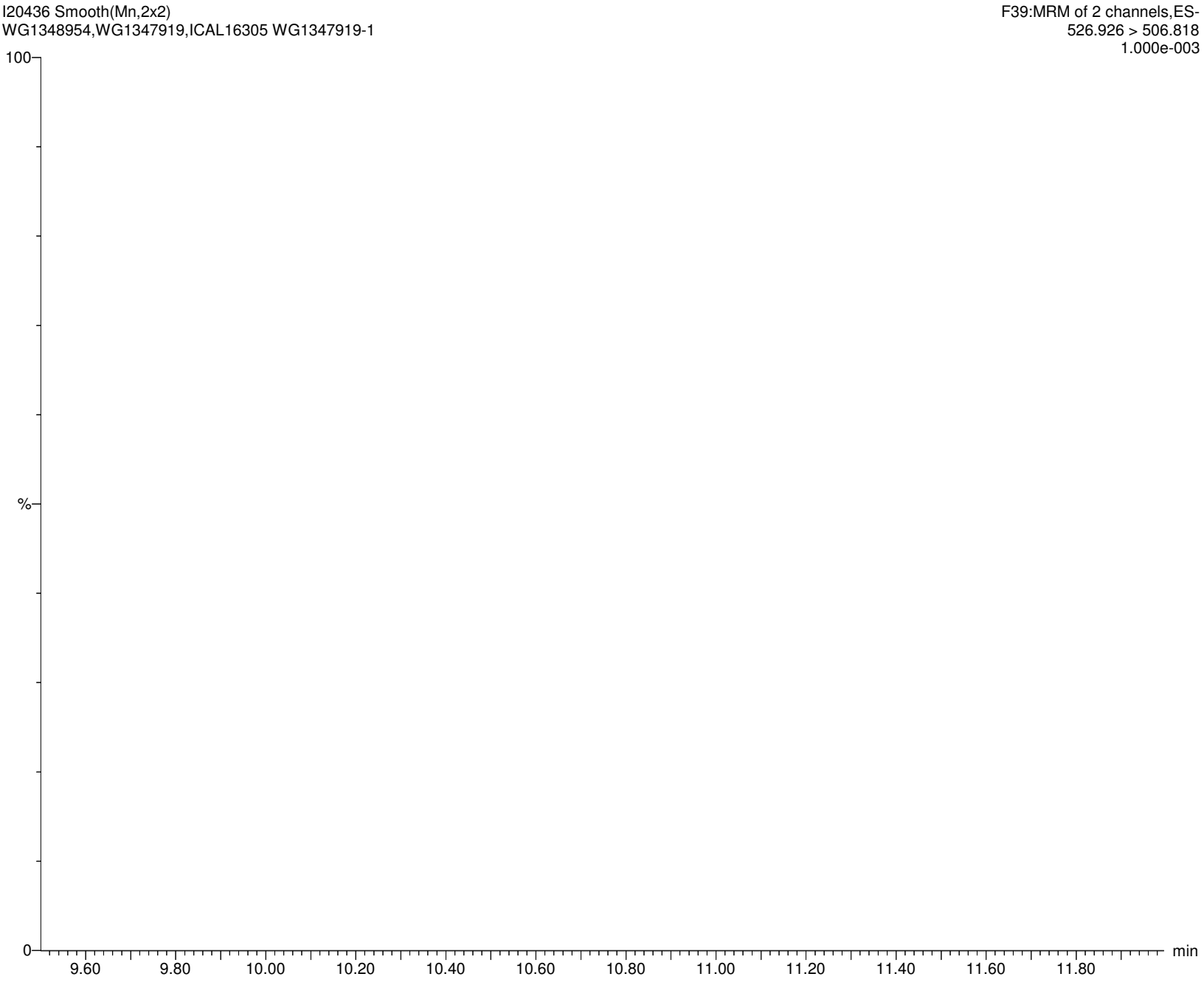
8:2FTS



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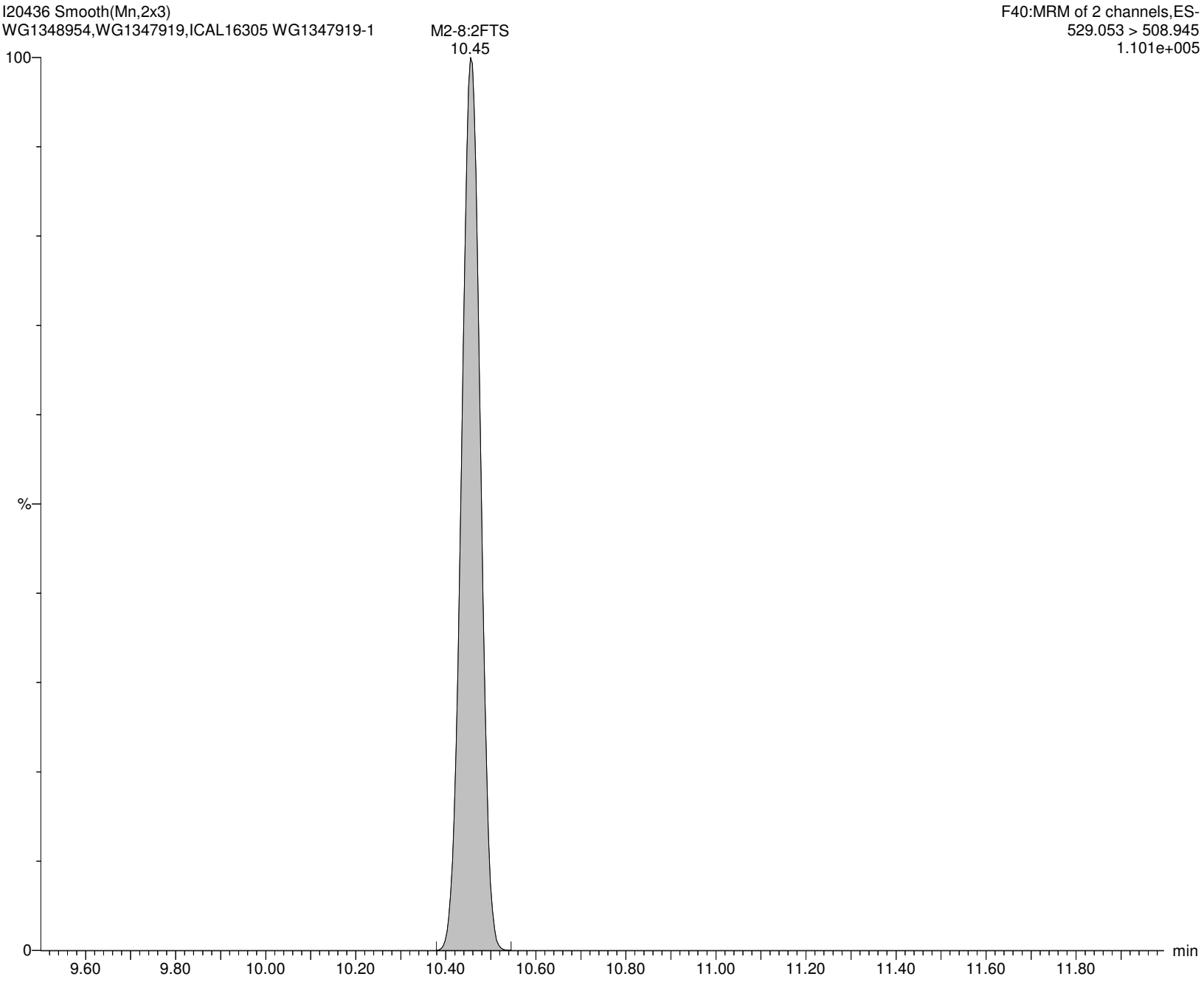

all concentration units in (ng/mL)

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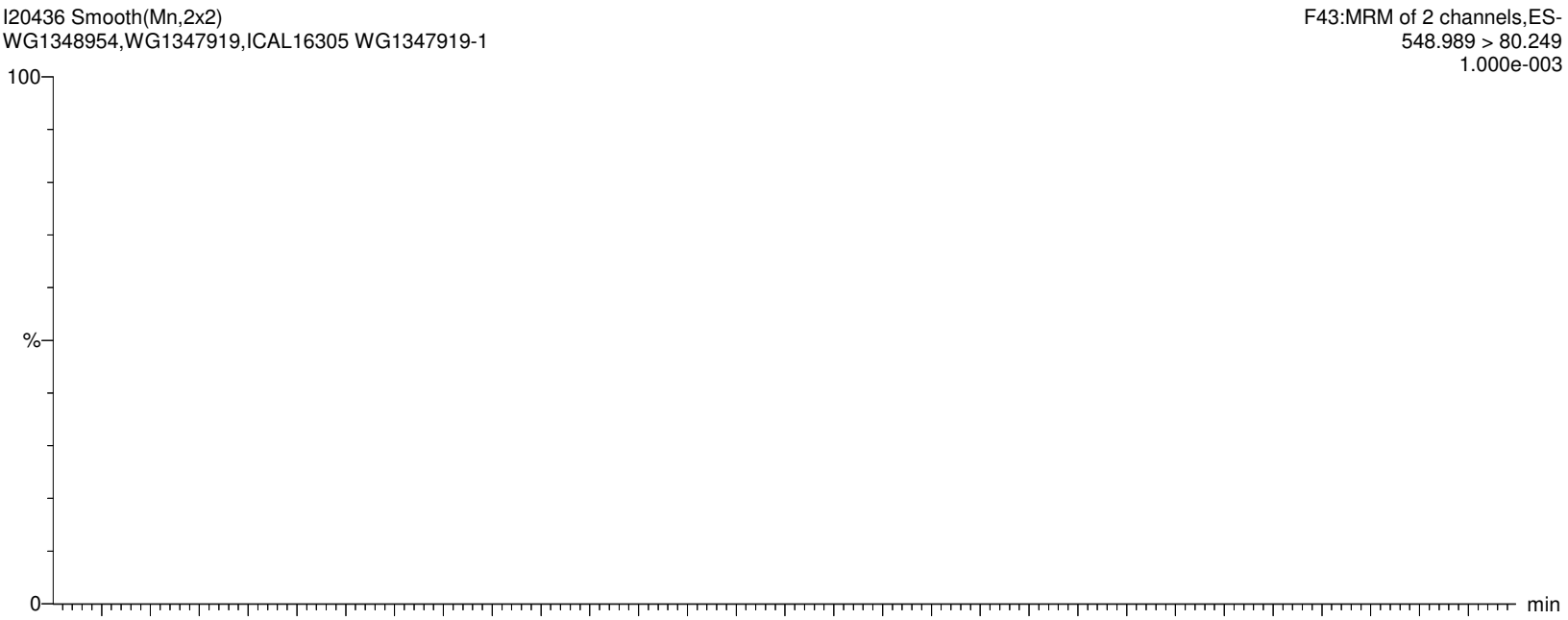

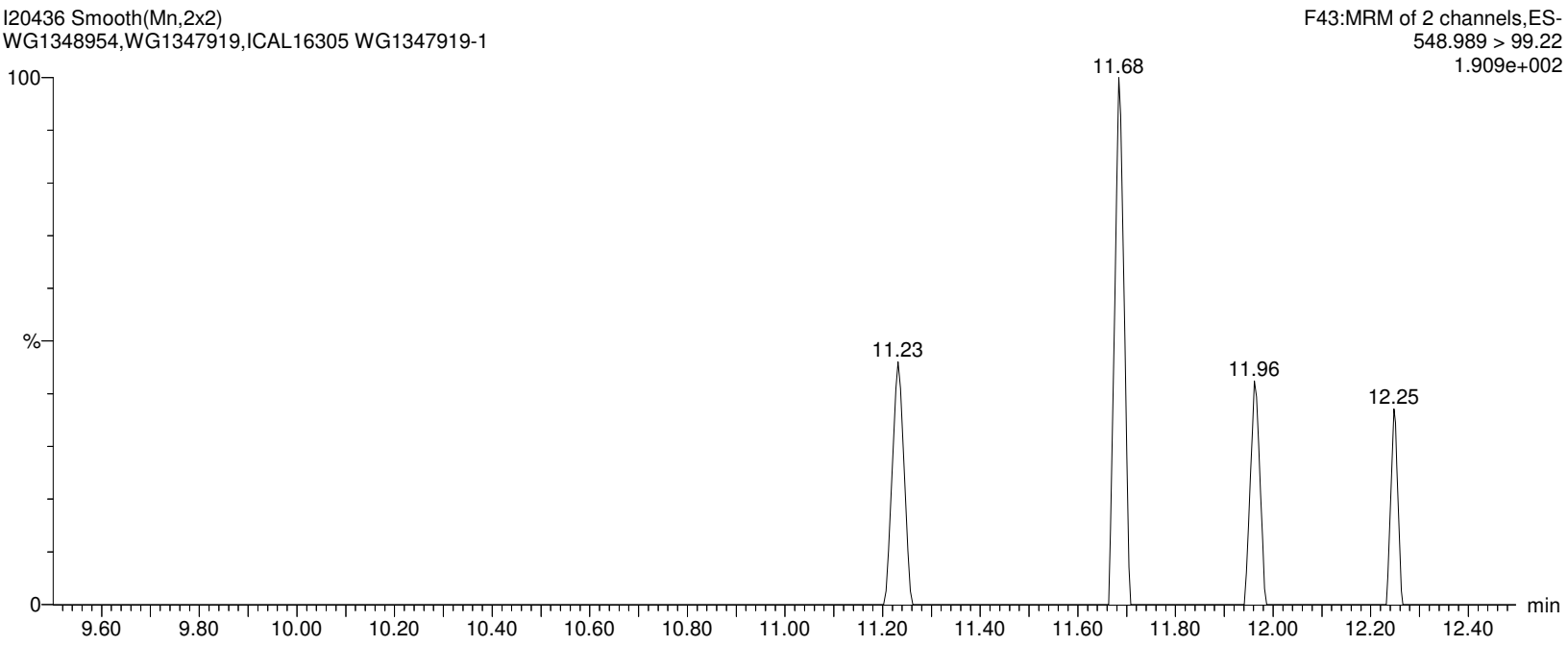

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
Printed: Thursday, March 12, 2020 09:03:00 Eastern Daylight Time

Name: I20436
ID: WG1347919-1
Date: 10-Mar-2020
Time: 21:37:46
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 1:E,7
Instrument: XEVO-TQSmicro#QEB0050
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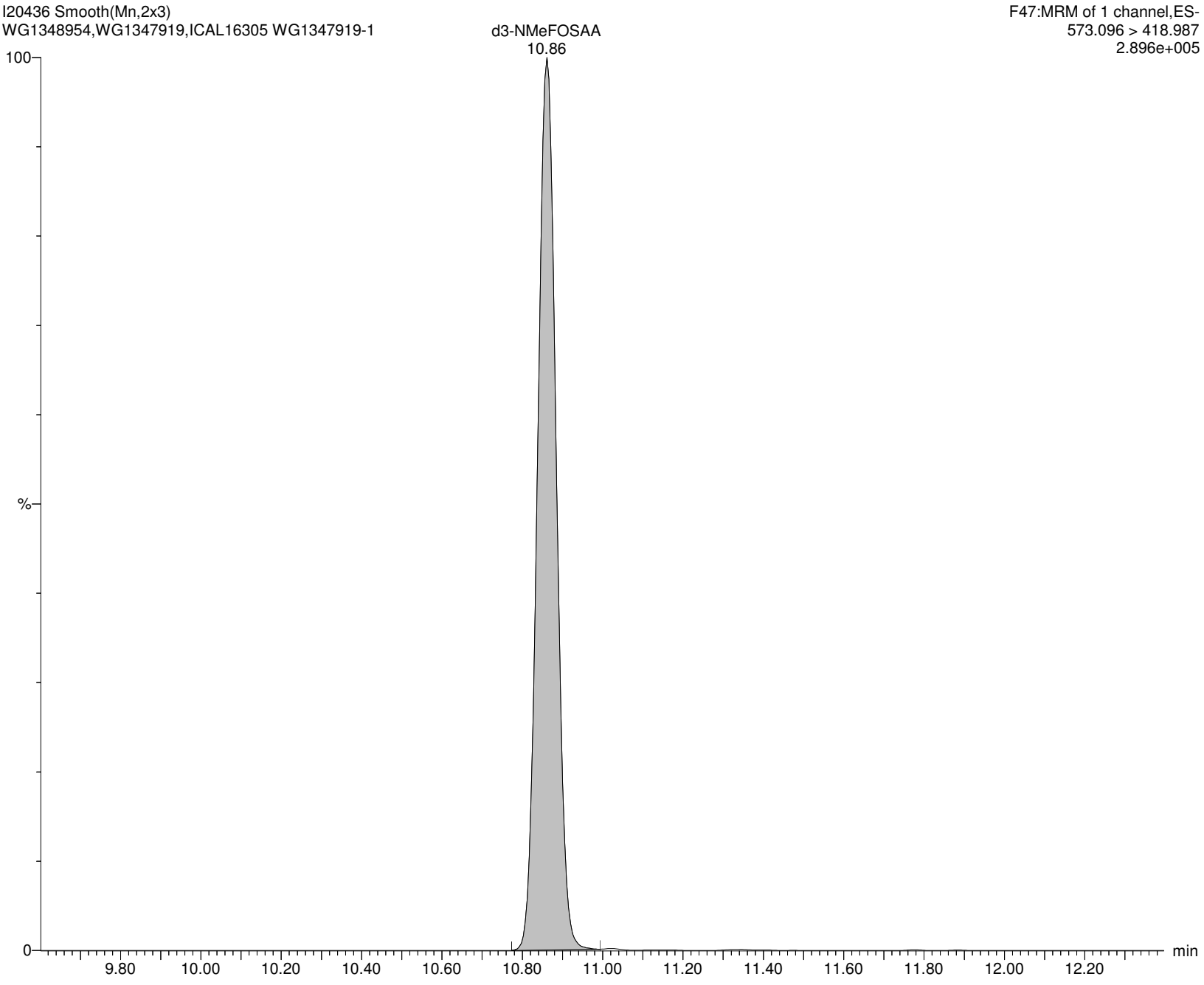

all concentration units in (ng/mL)

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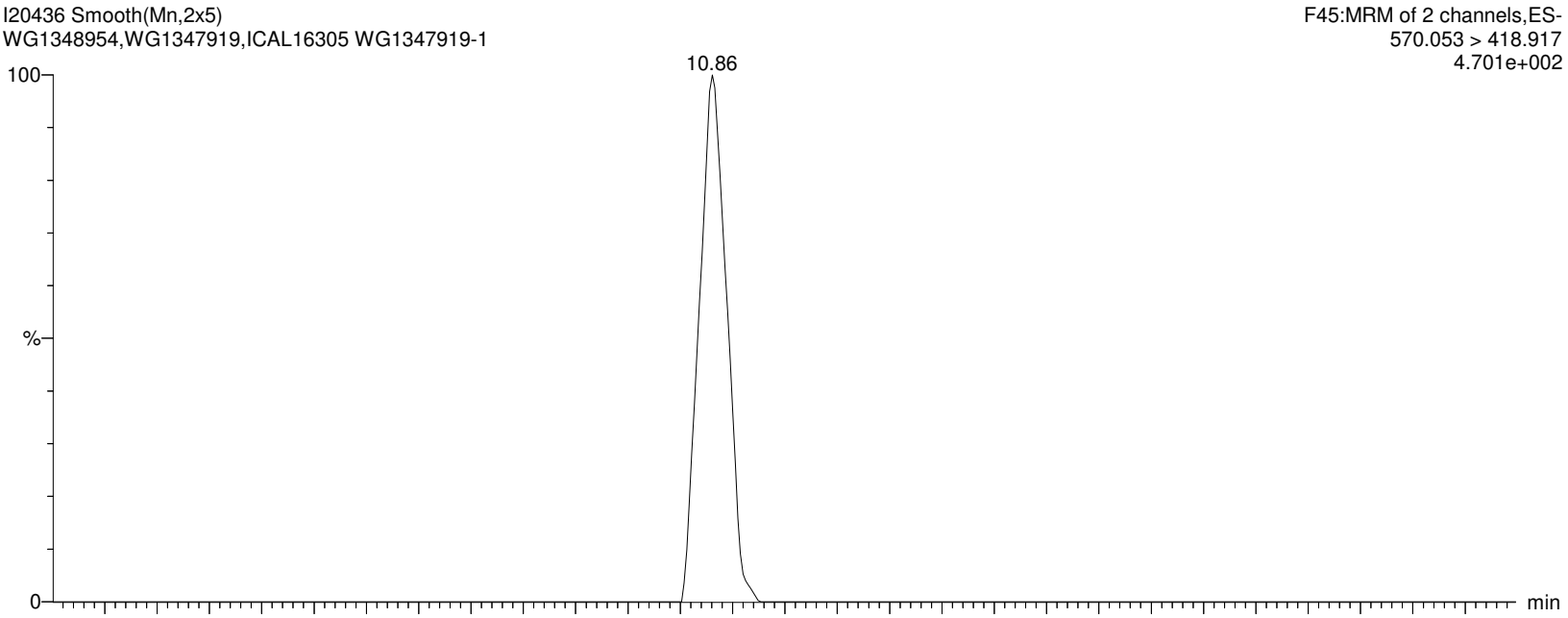

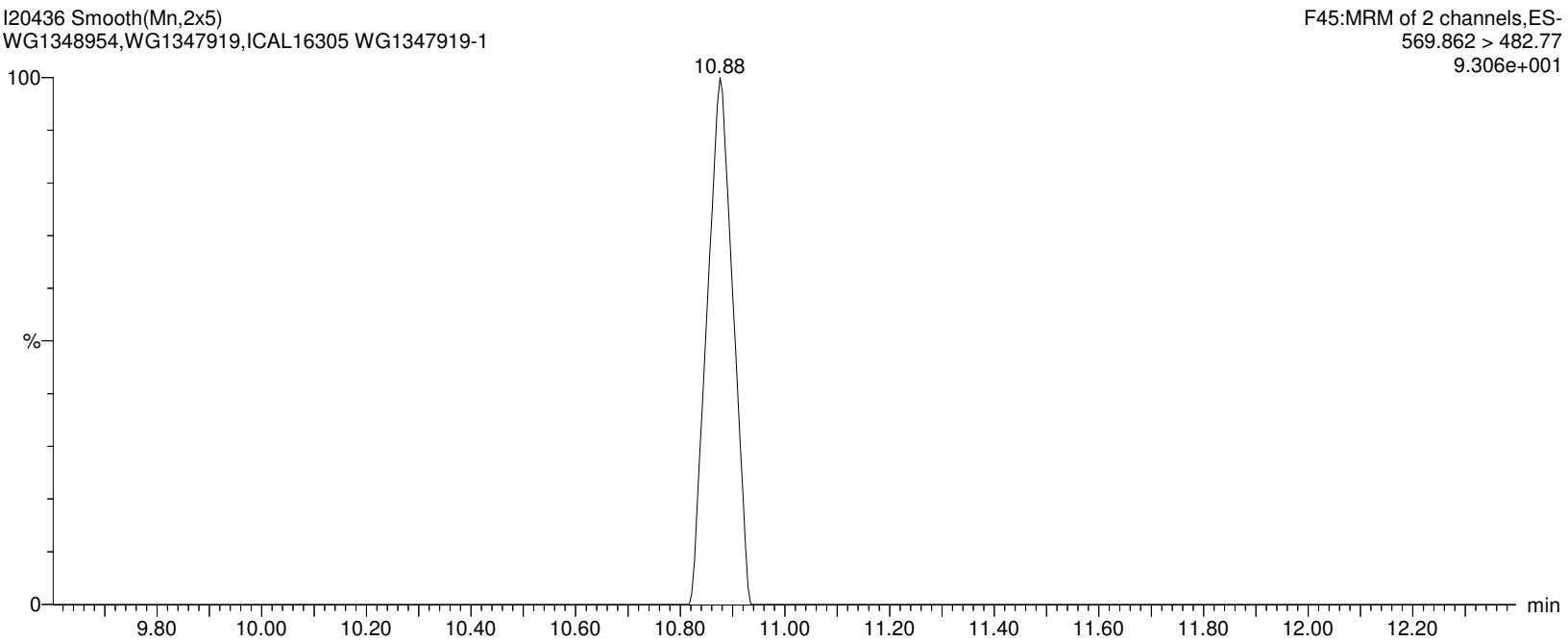

all concentration units in (ng/mL)

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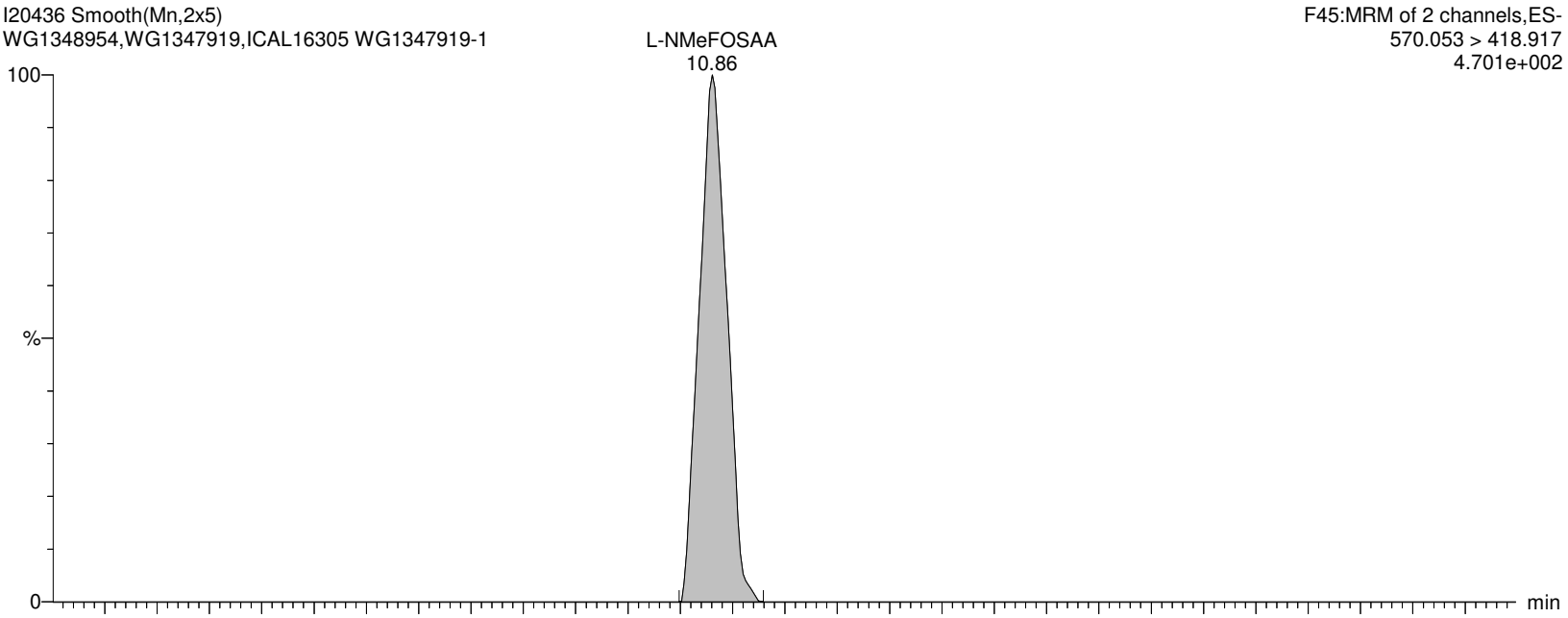

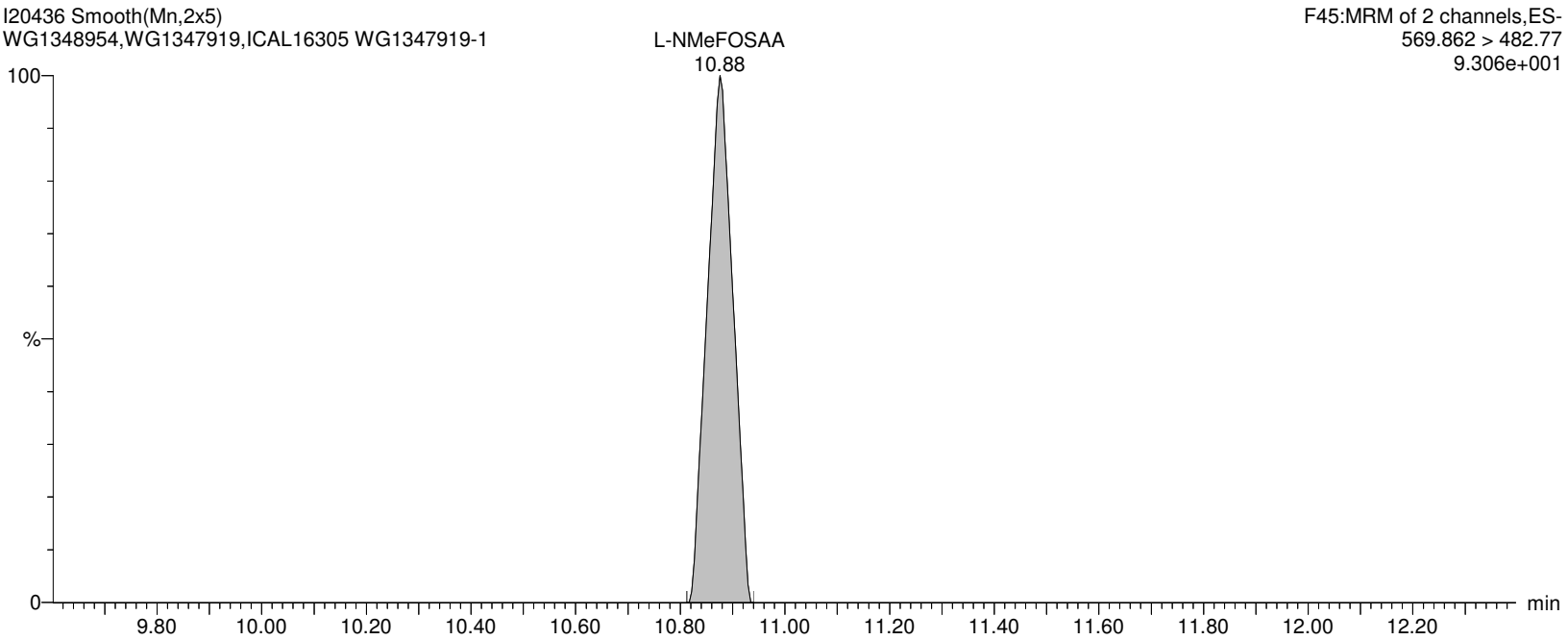

all concentration units in (ng/mL)

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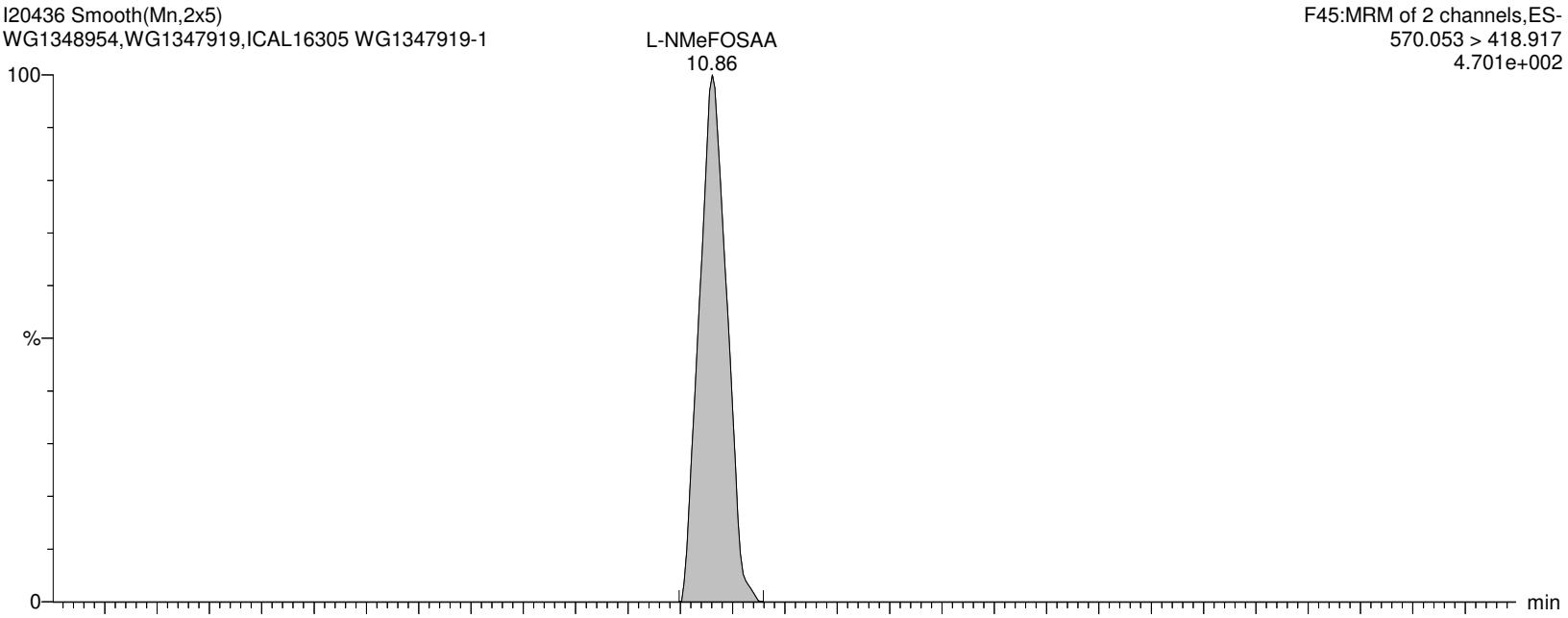

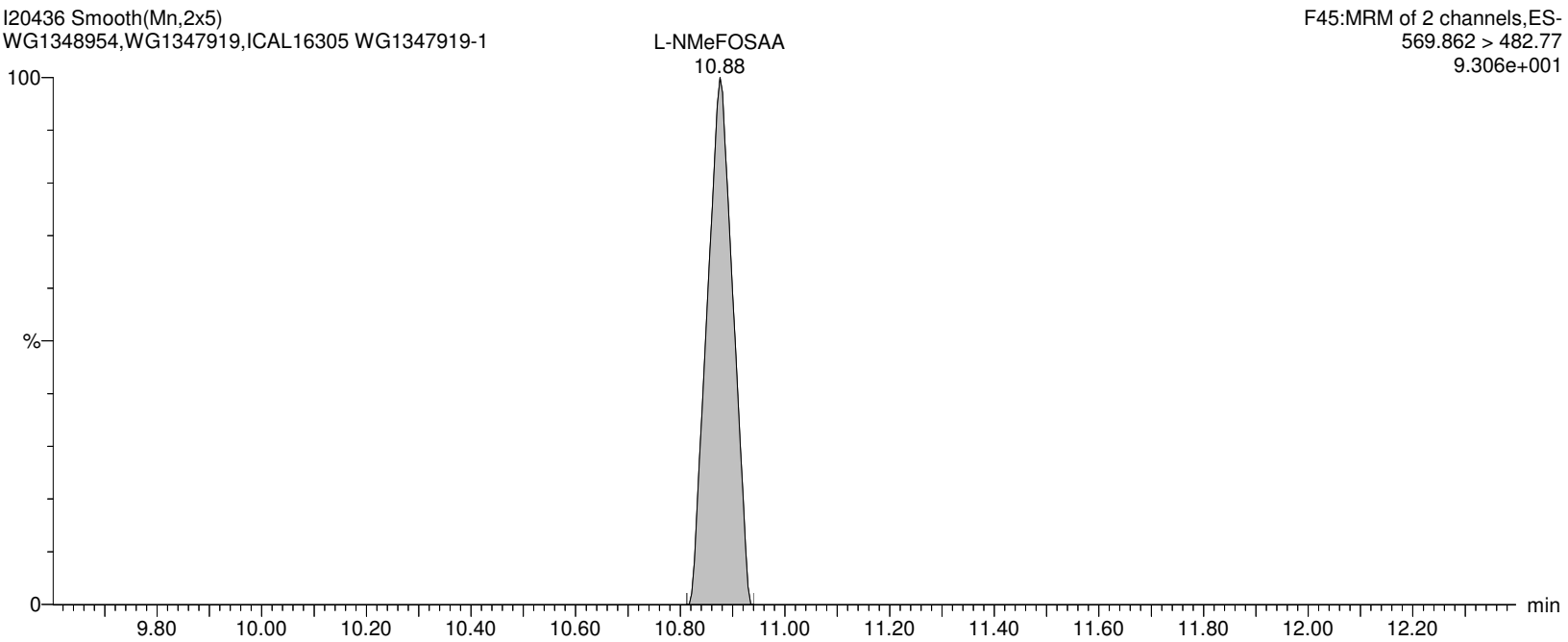

all concentration units in (ng/mL)

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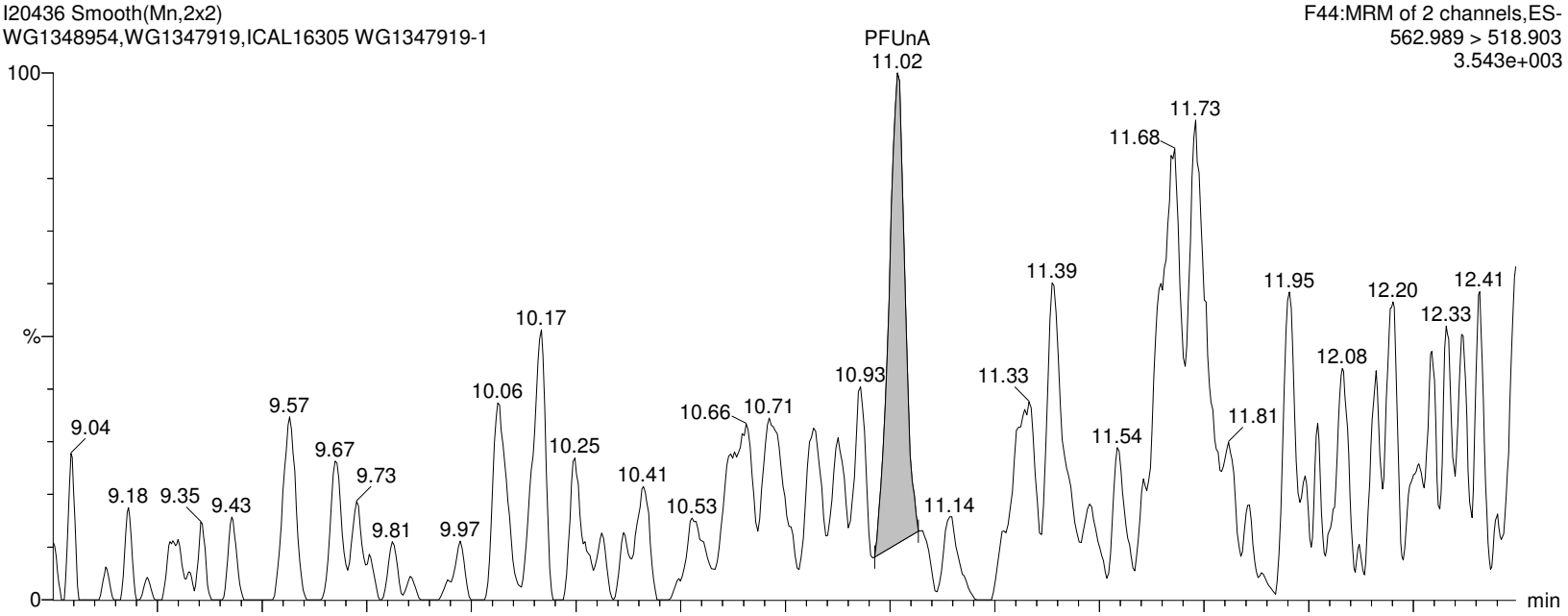

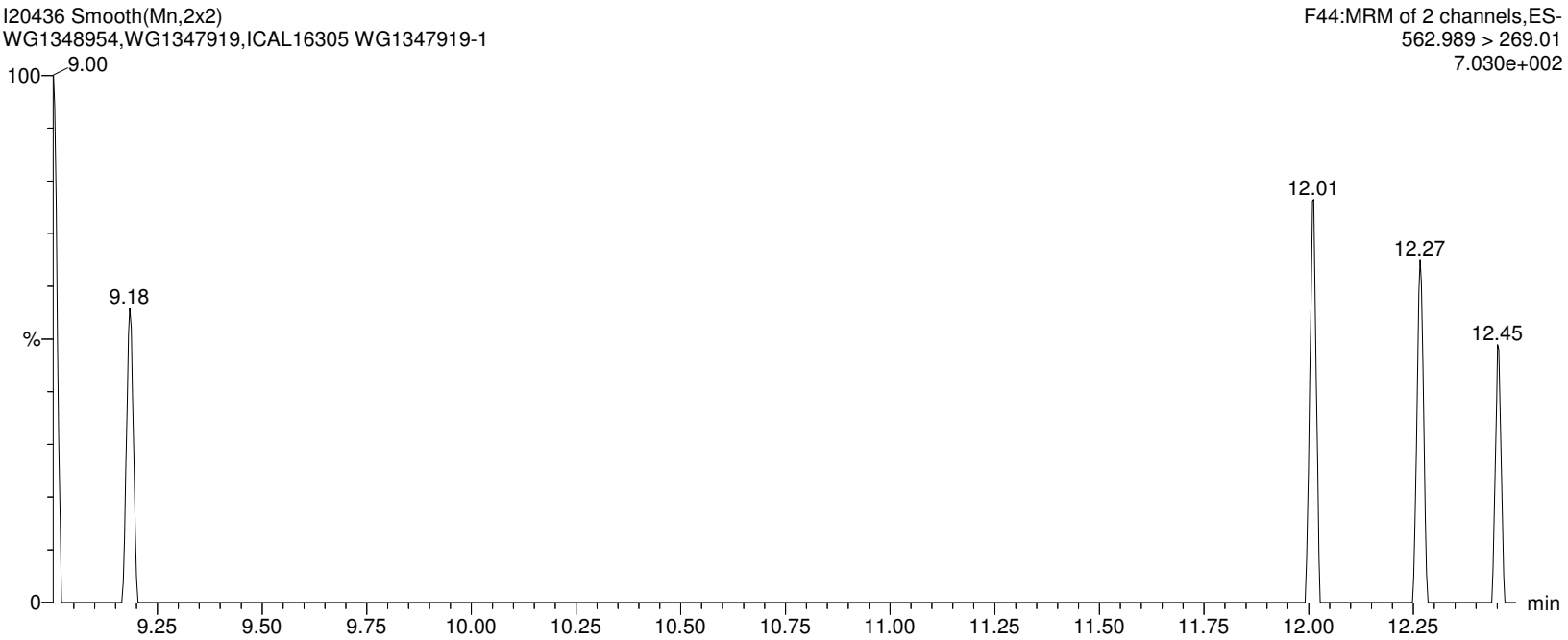

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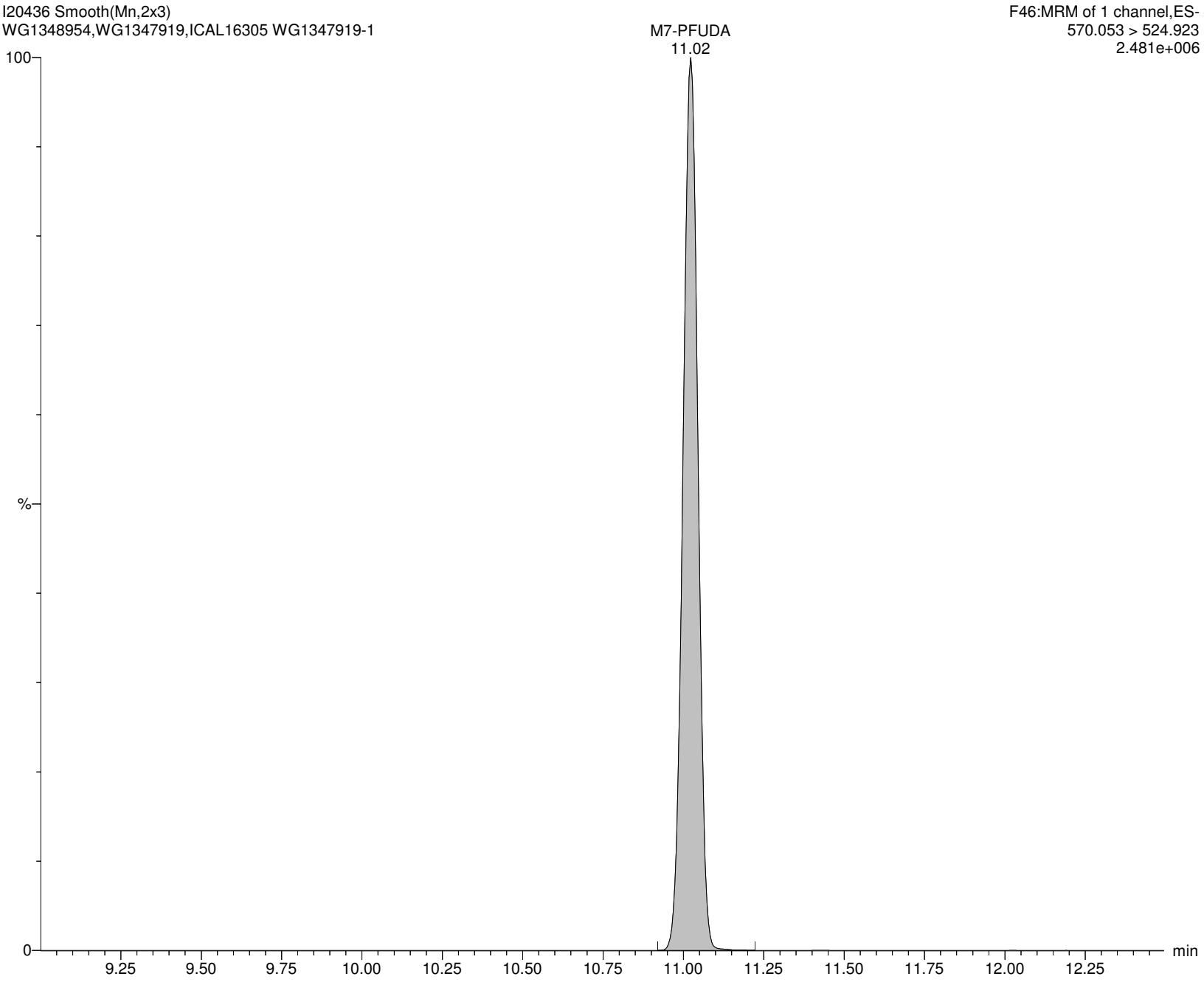
M7-PFUDA



all concentration units in (ng/mL)

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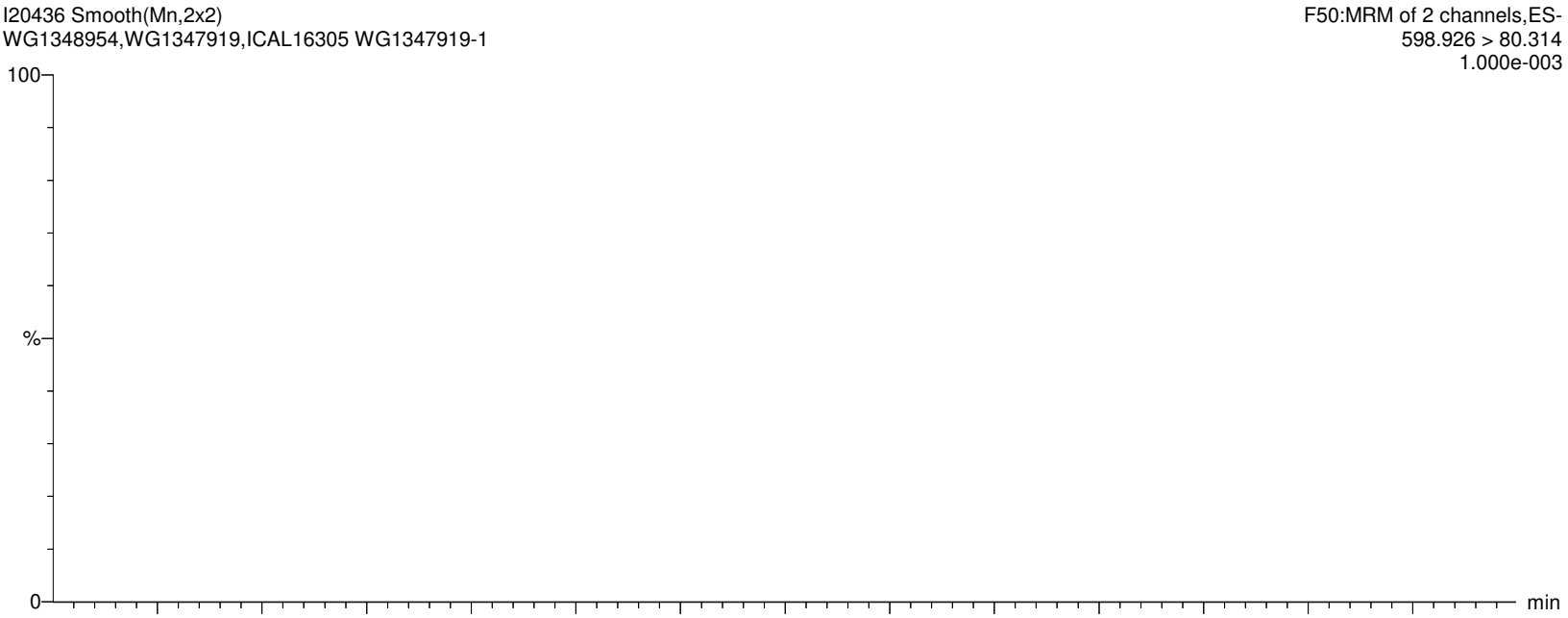

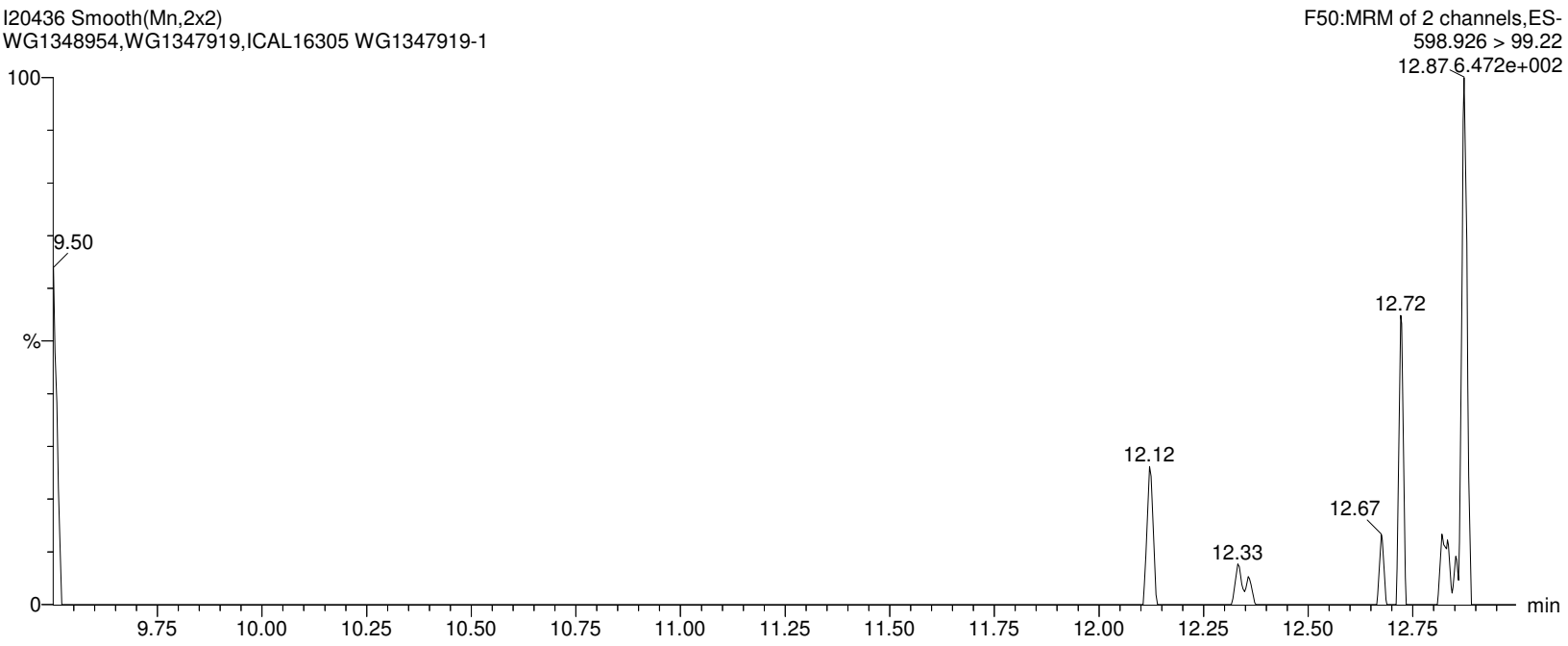

all concentration units in (ng/mL)

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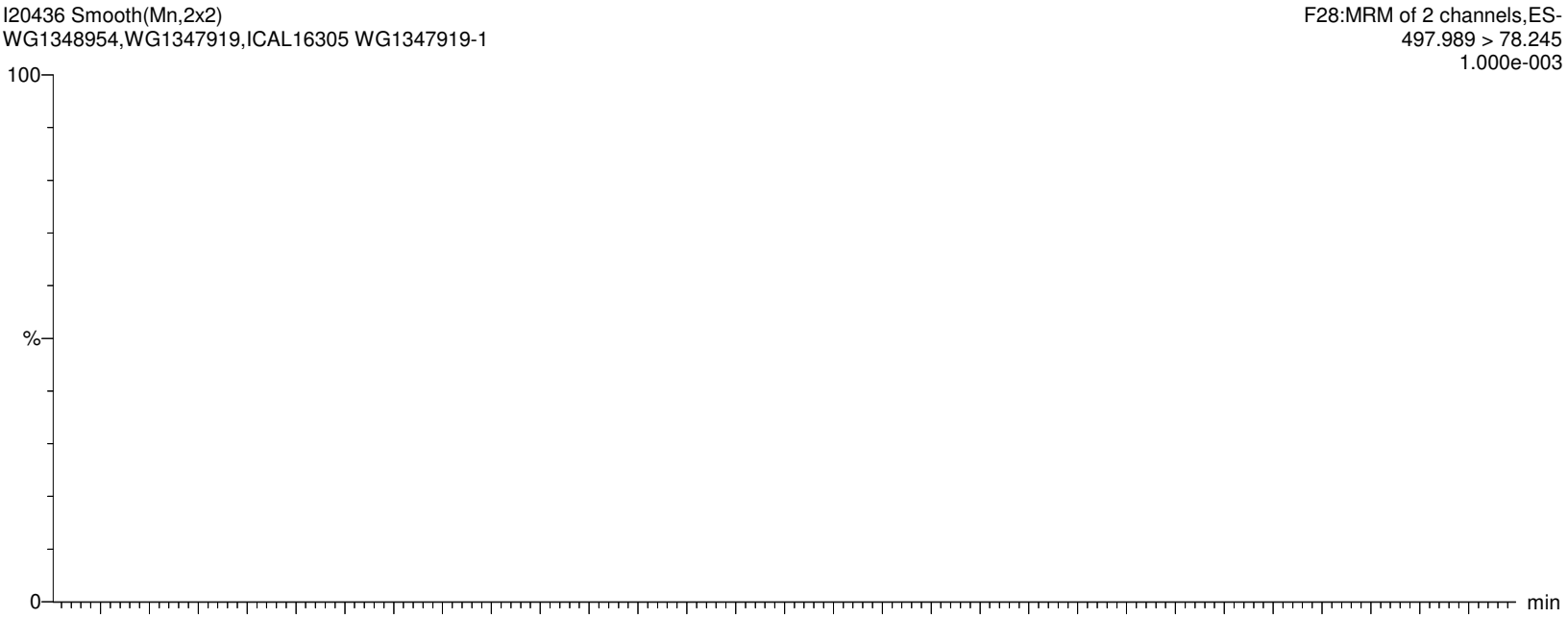

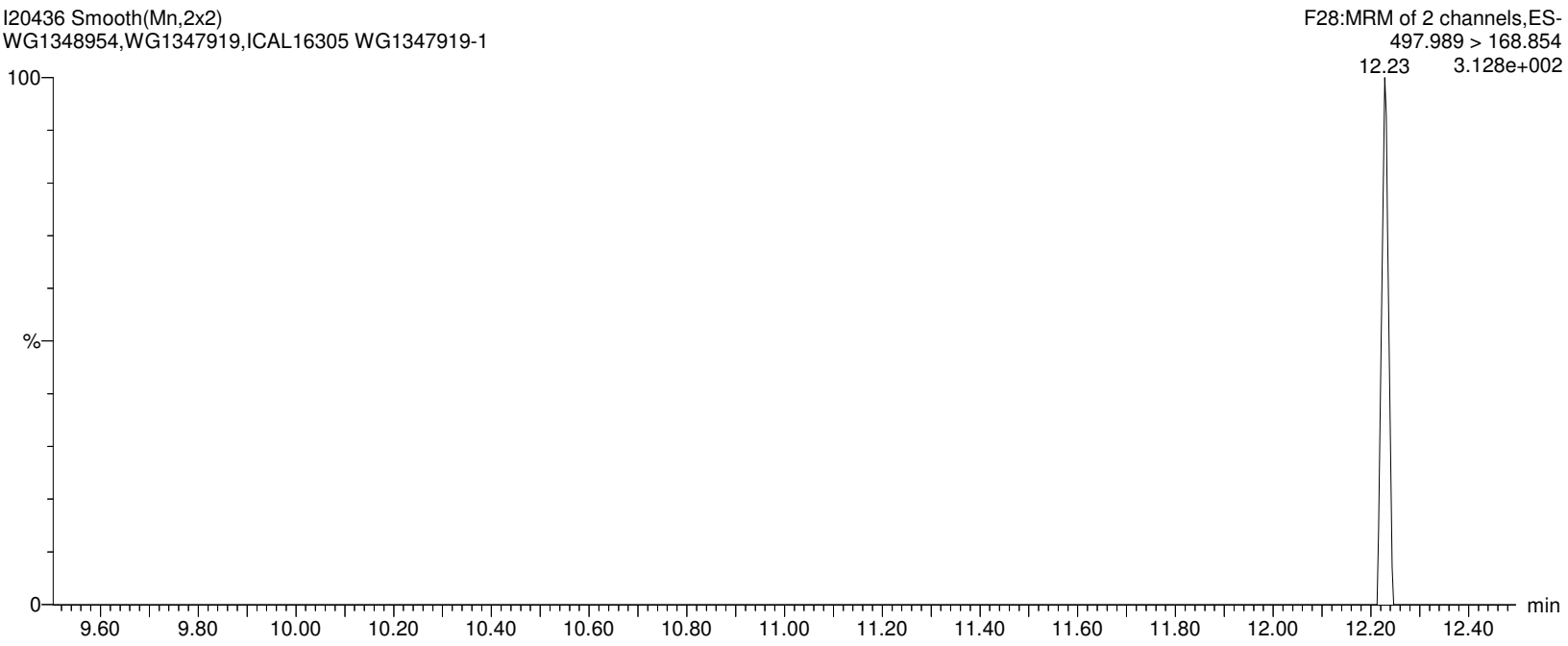

all concentration units in (ng/mL)

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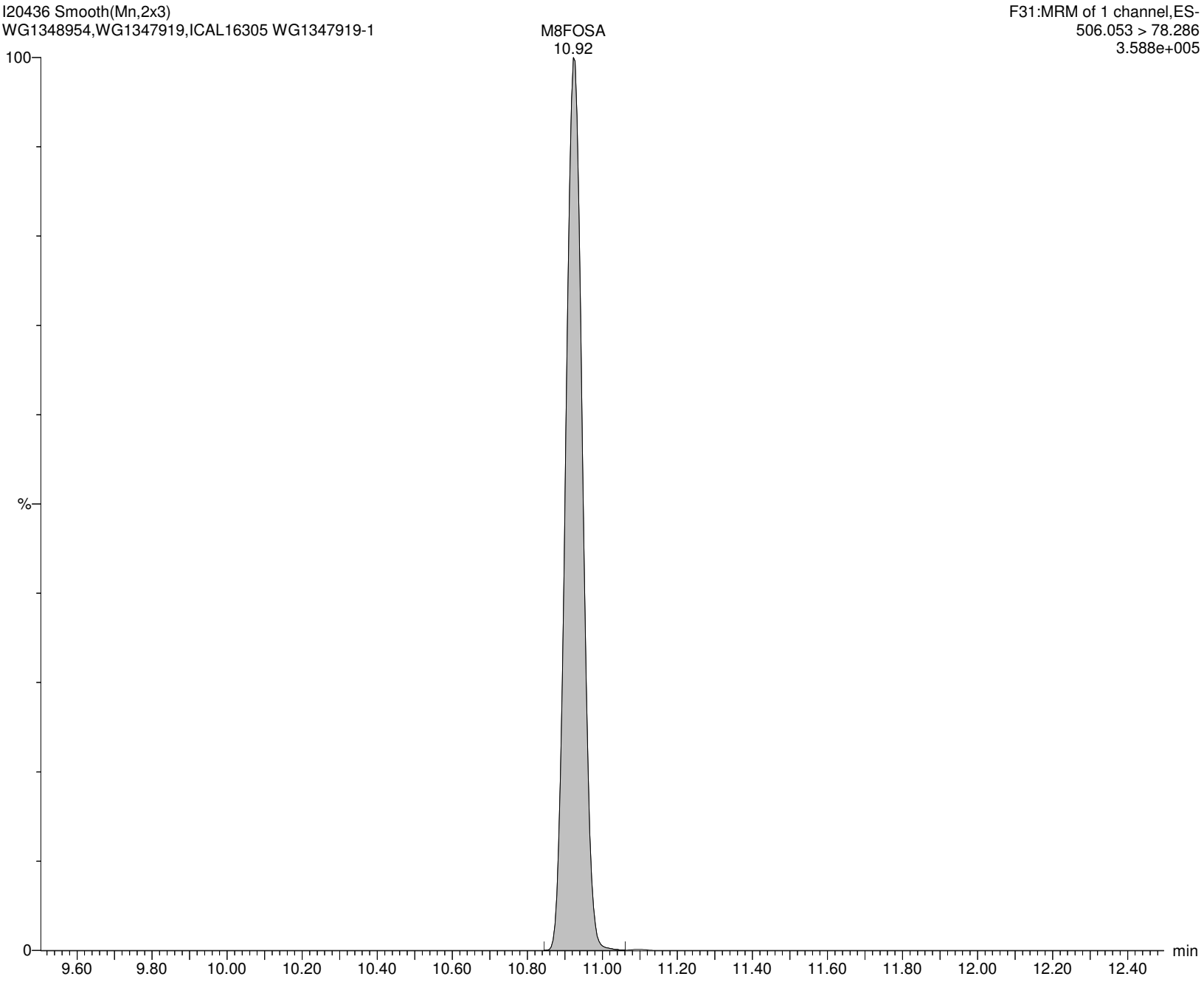

all concentration units in (ng/mL)

Alpha Analytical Inc.
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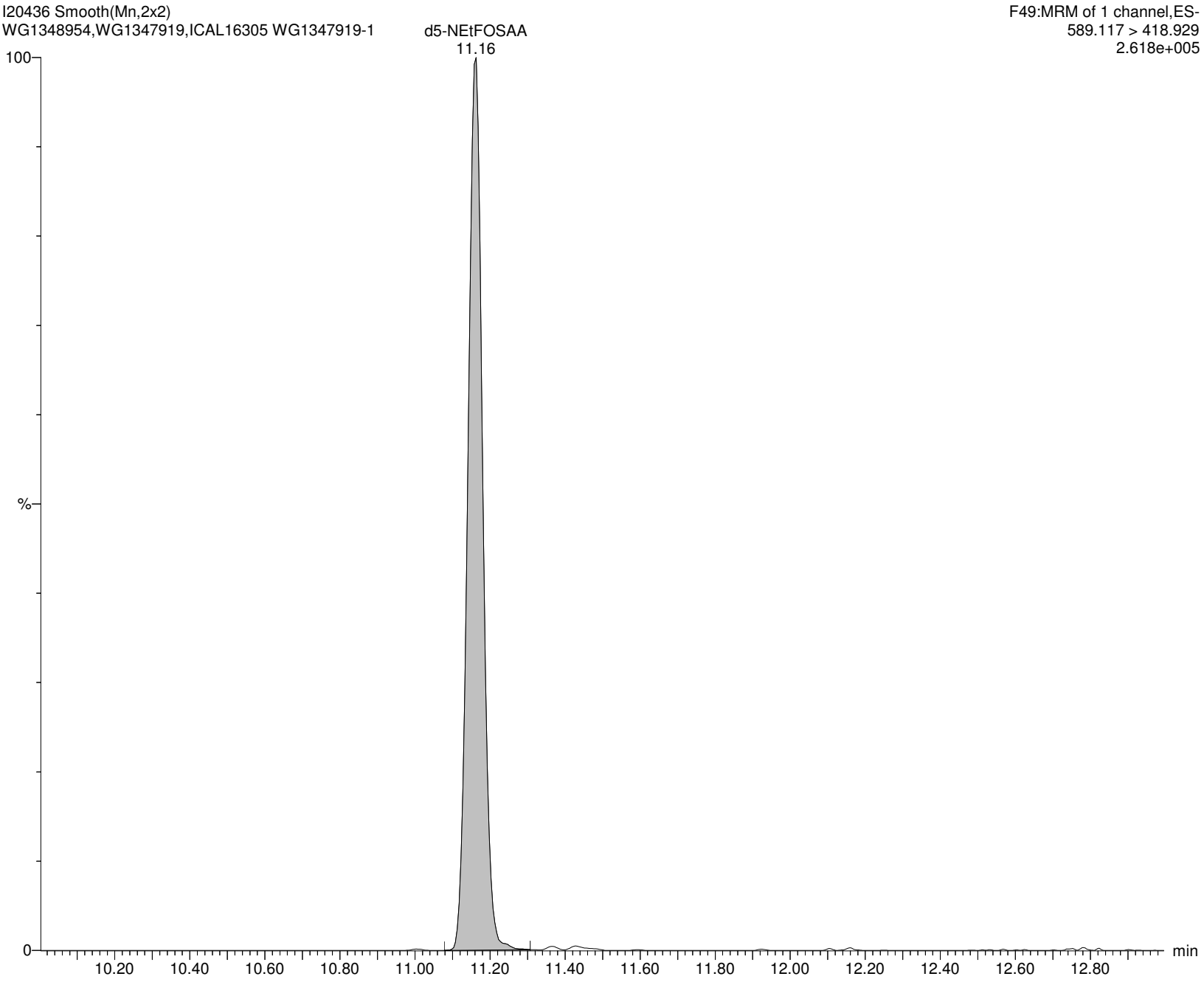

all concentration units in (ng/mL)

Alpha Analytical Inc.
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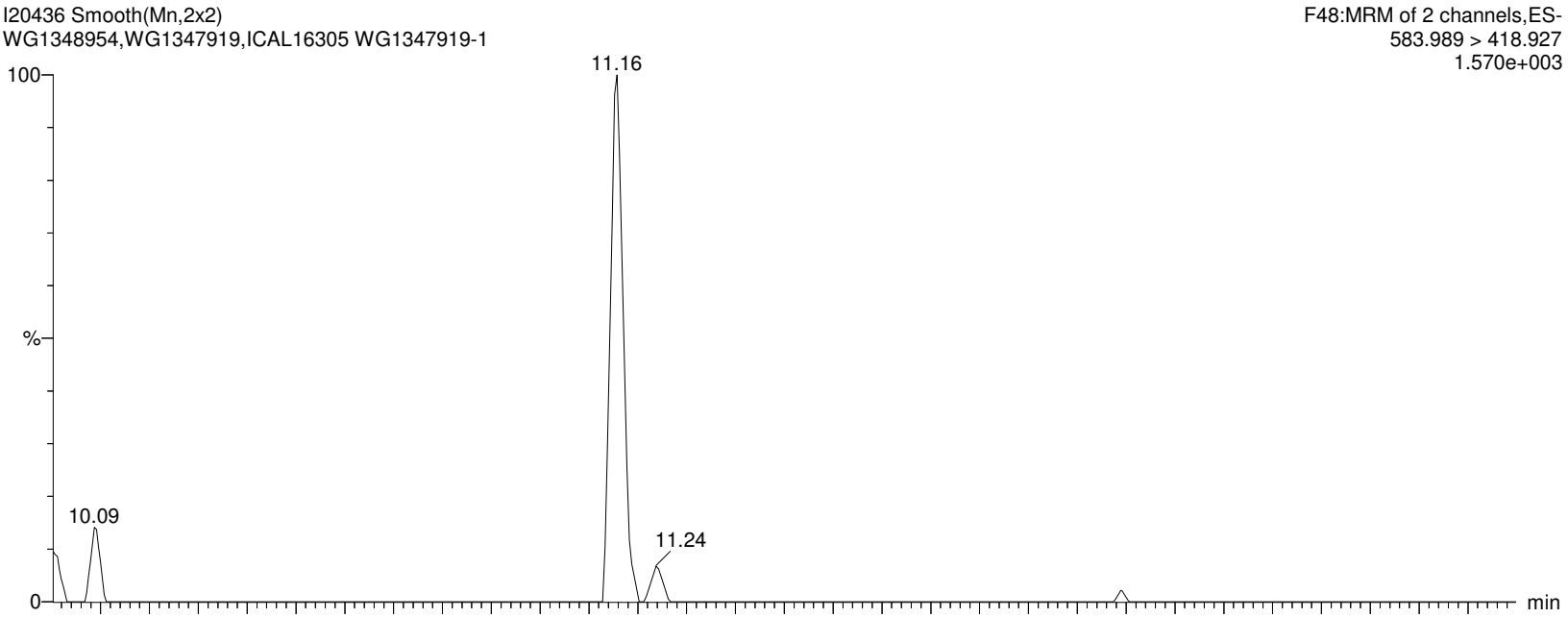

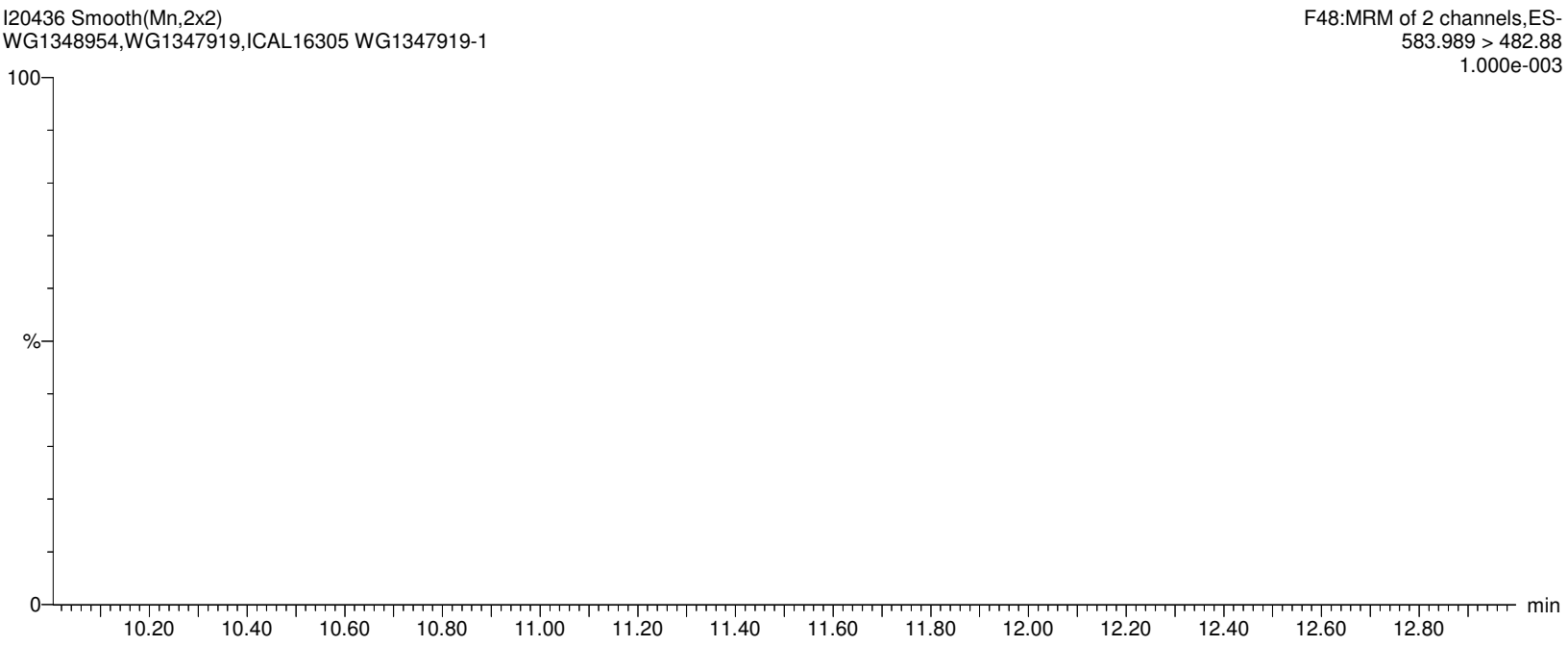

all concentration units in (ng/mL)

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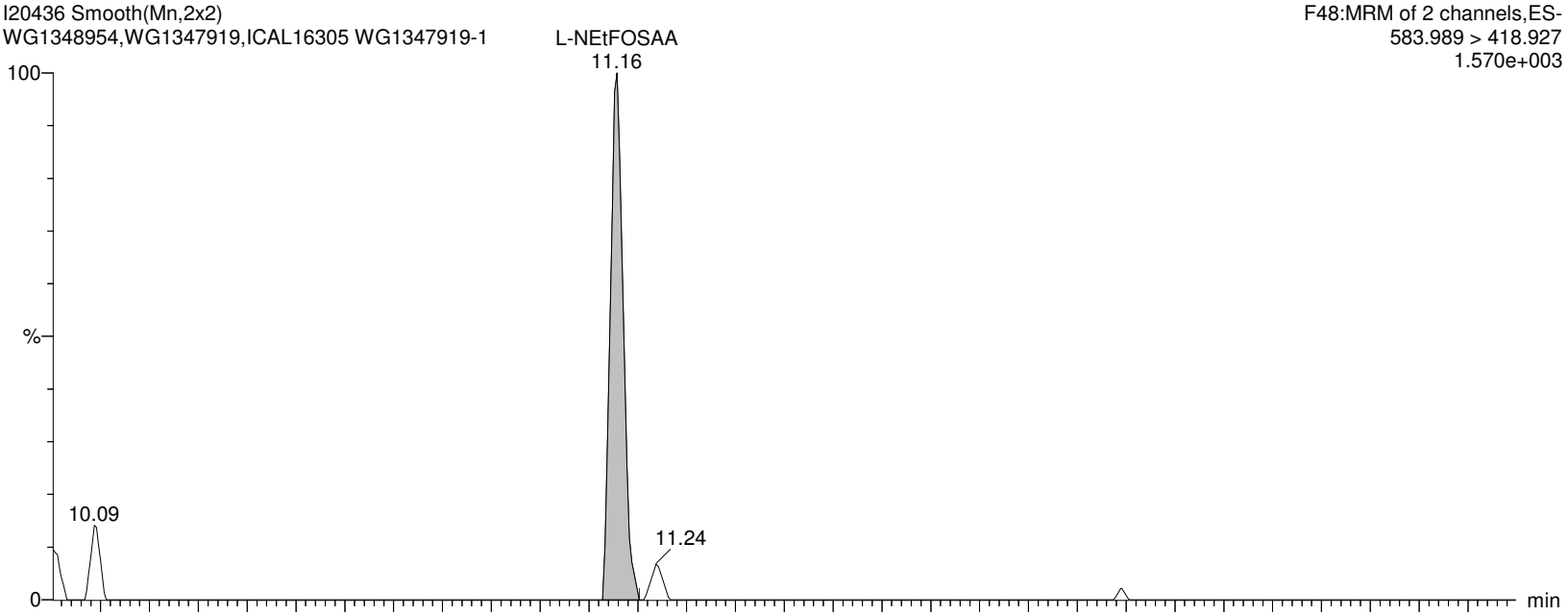

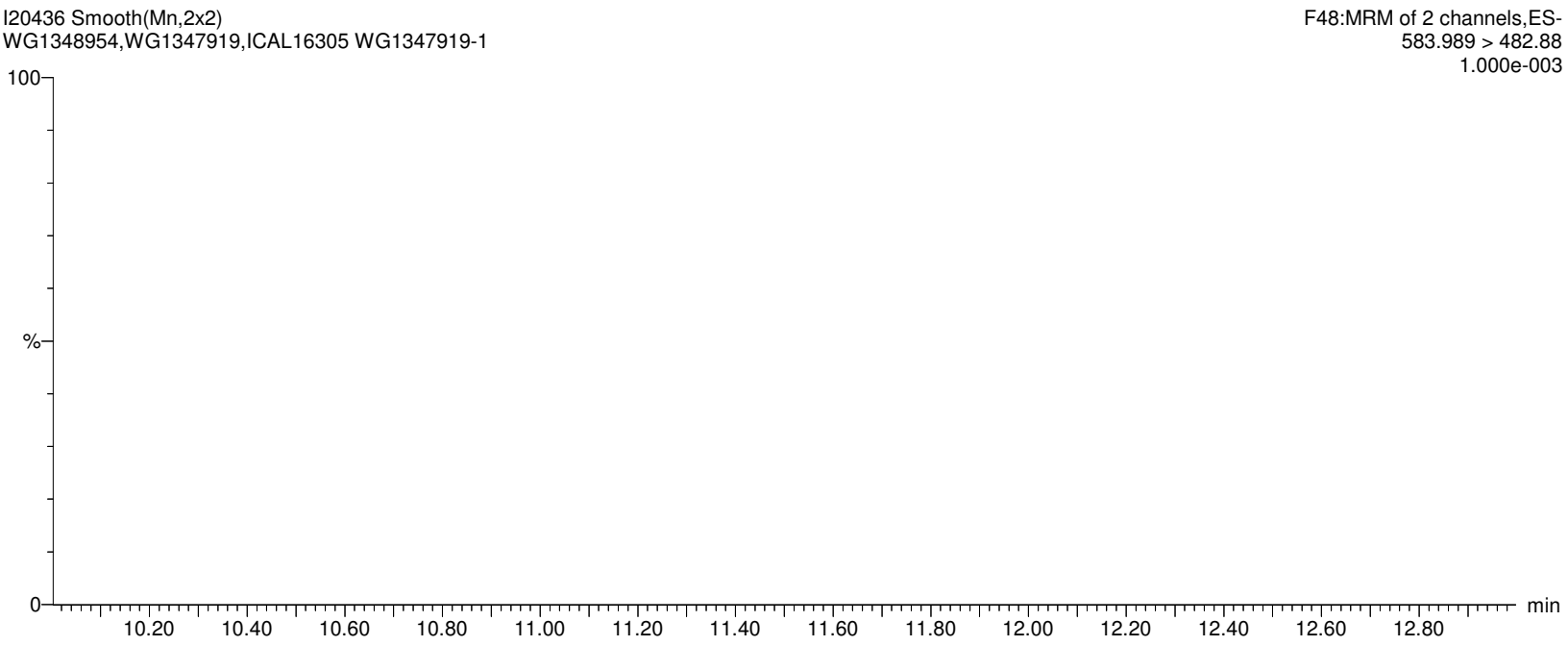

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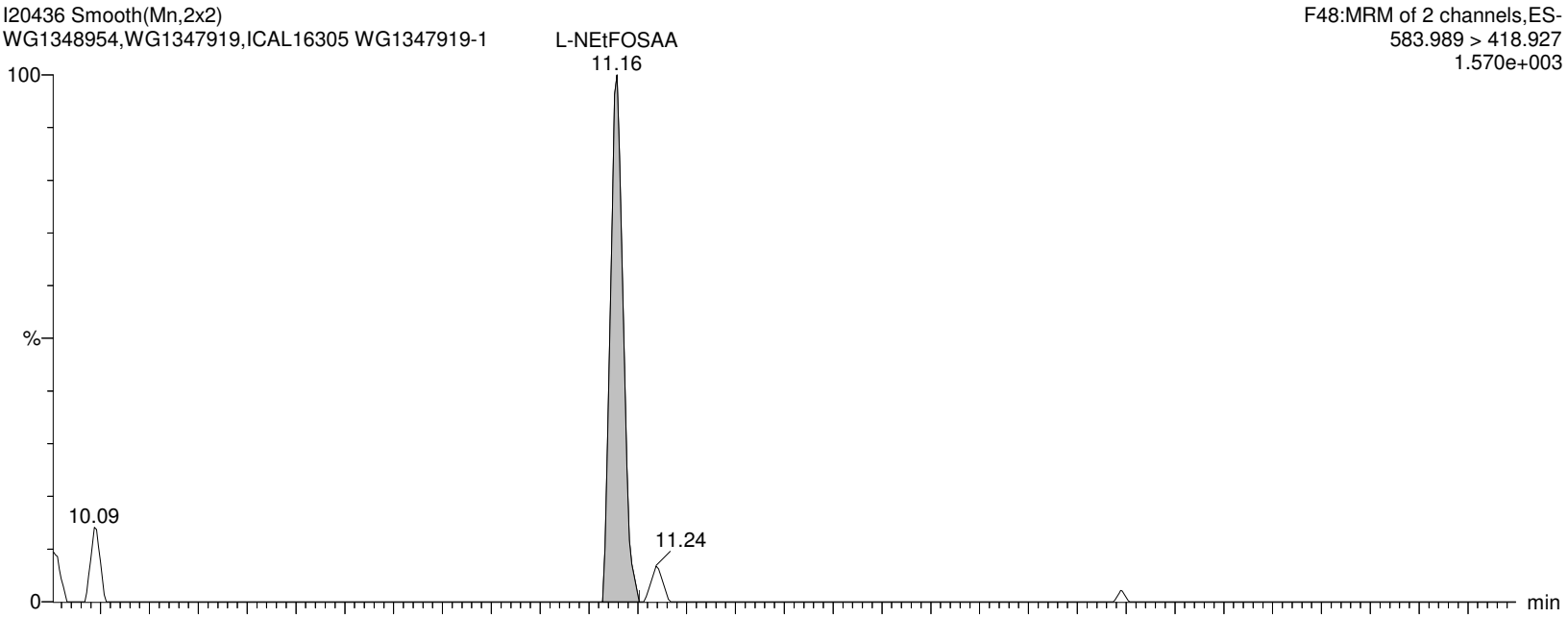
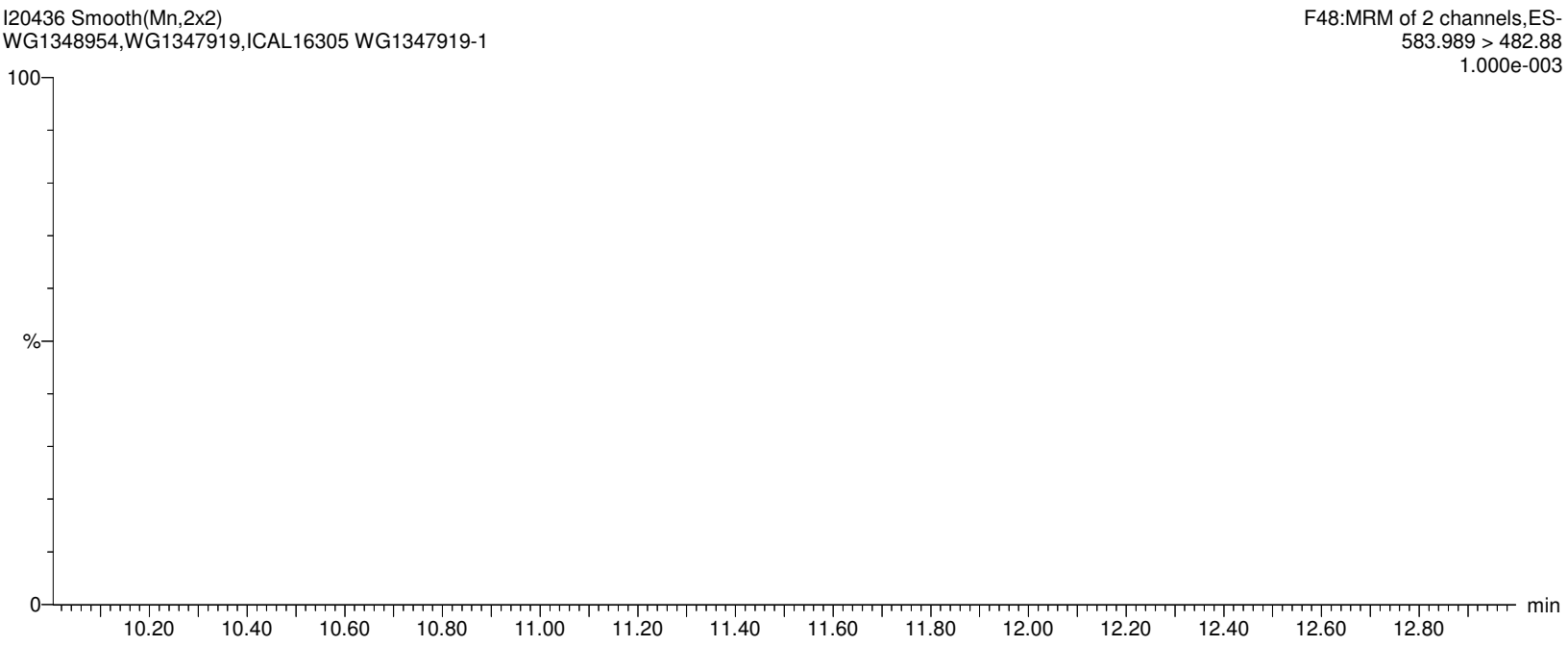
NEtFOSAA





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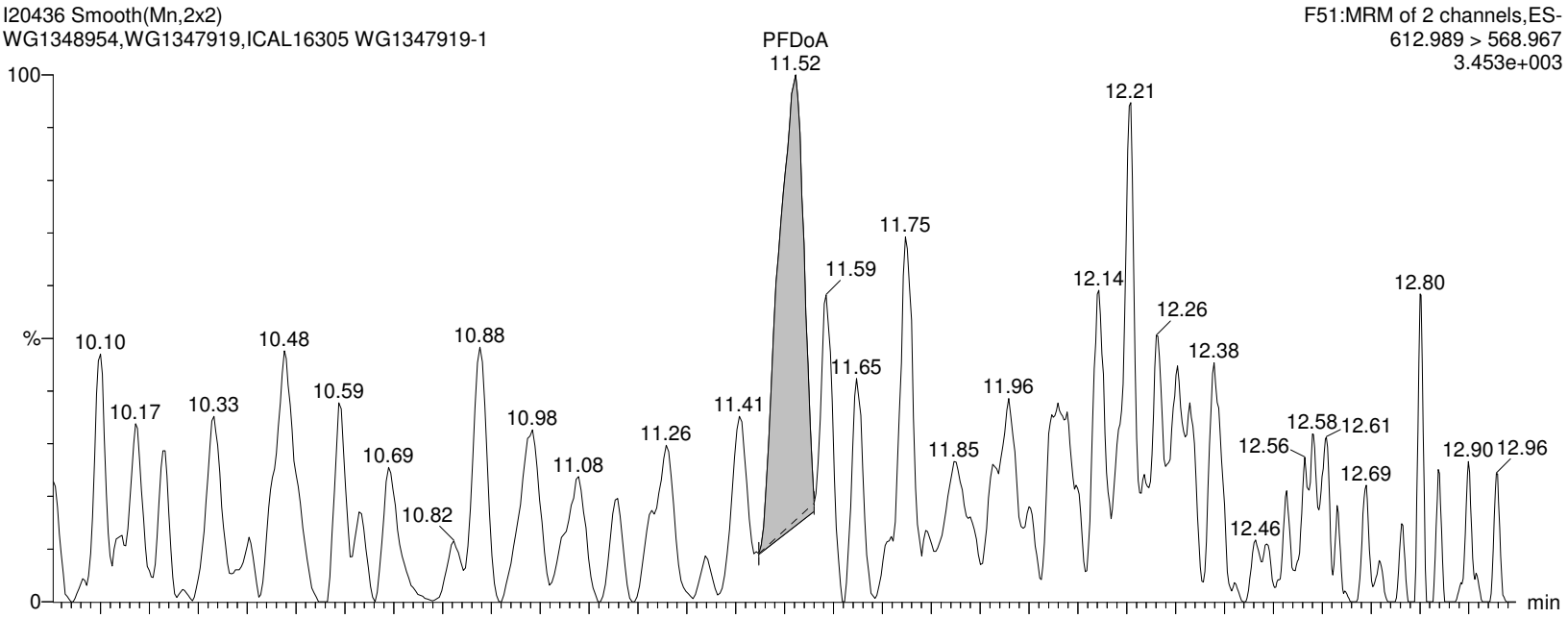

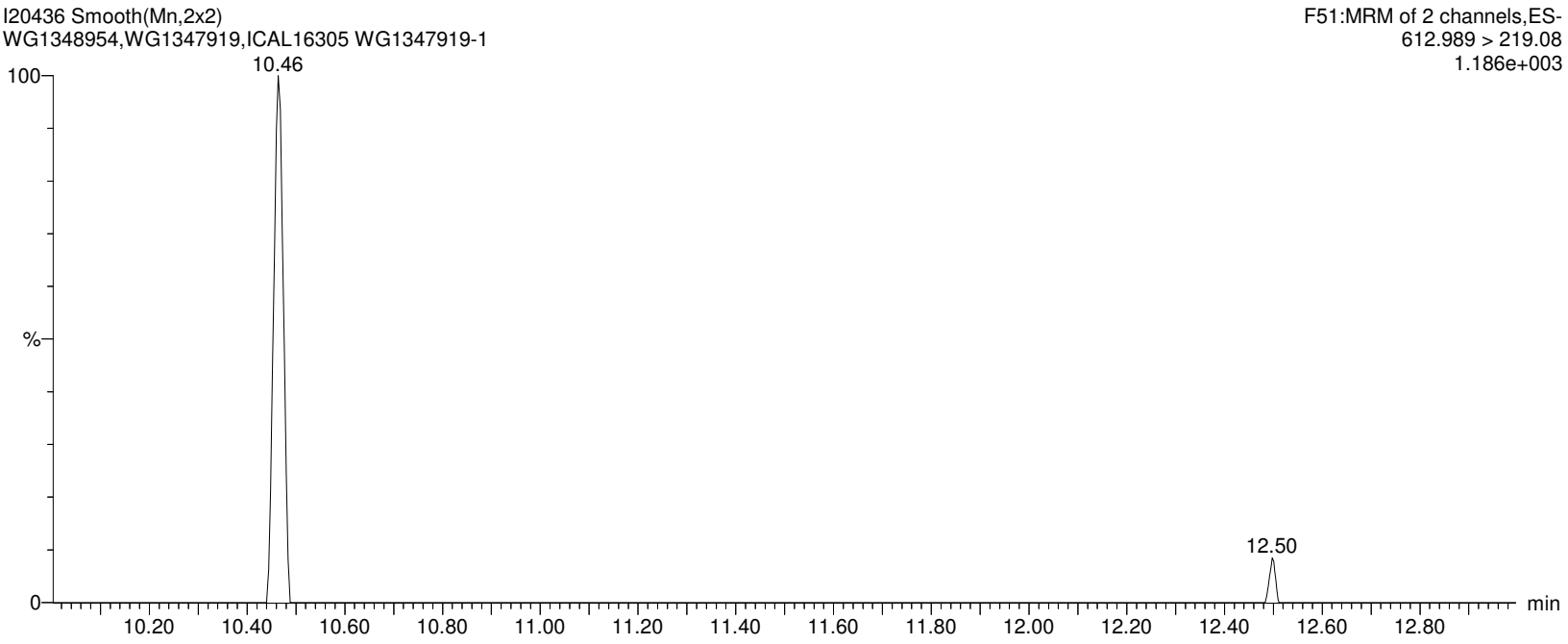

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ID: WG1347919-1
Date: 10-Mar-2020
Time: 21:37:46
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 1:E,7
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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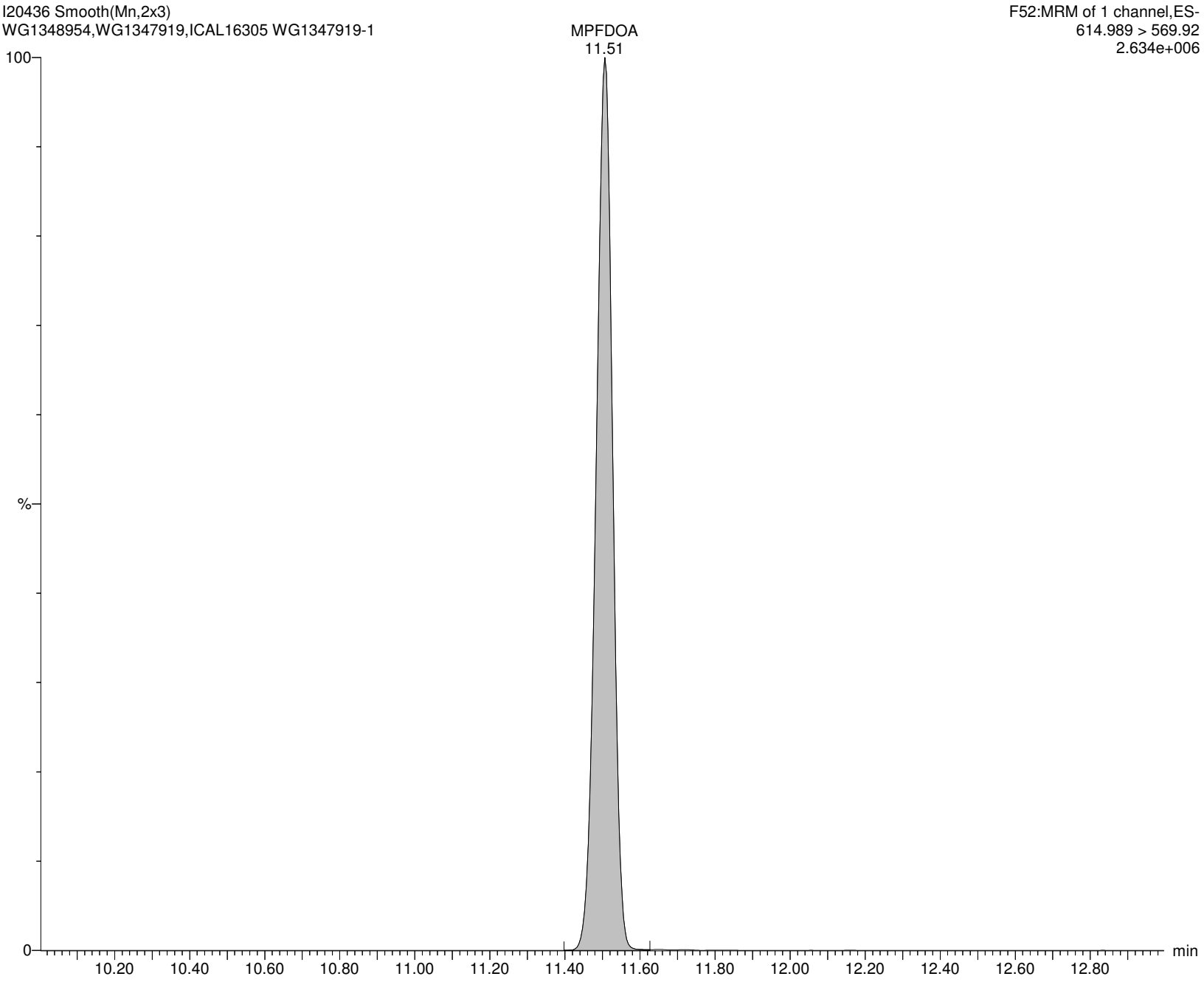

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954C.qld
Last Altered: Wednesday, March 11, 2020 21:10:58 Eastern Daylight Time
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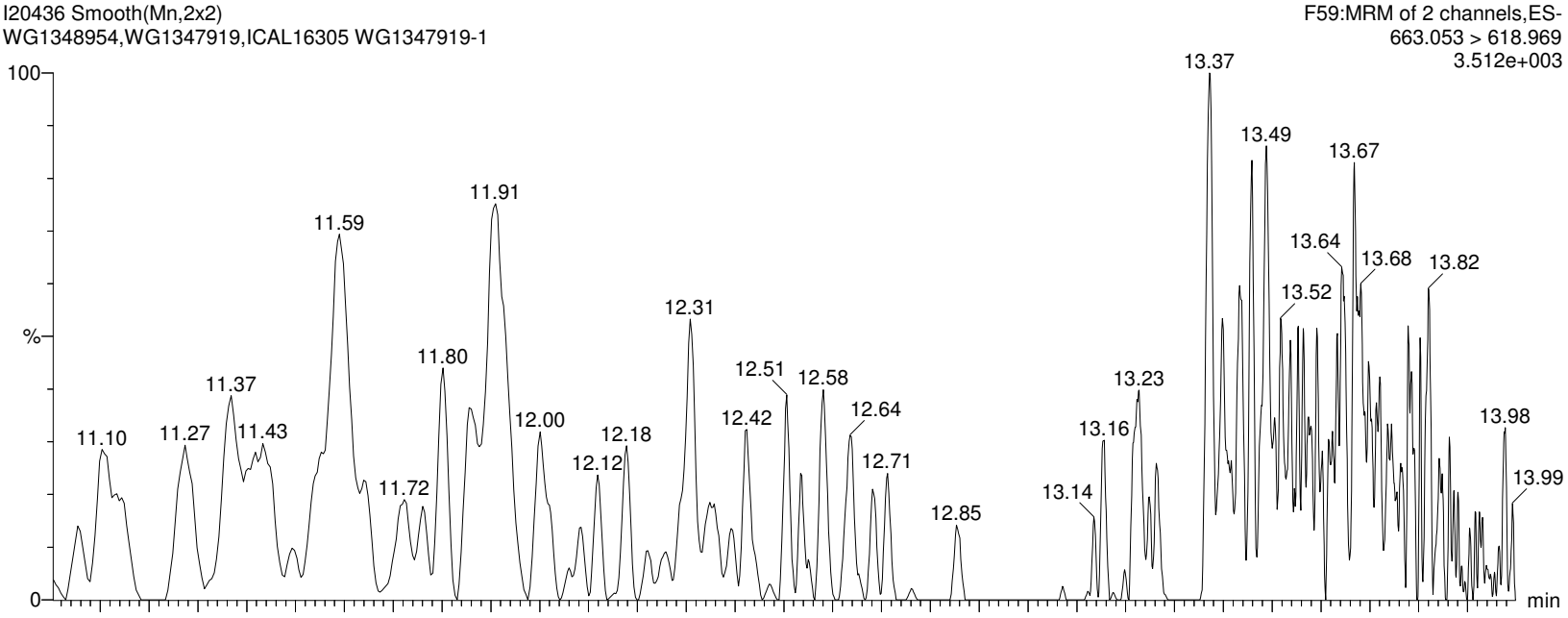

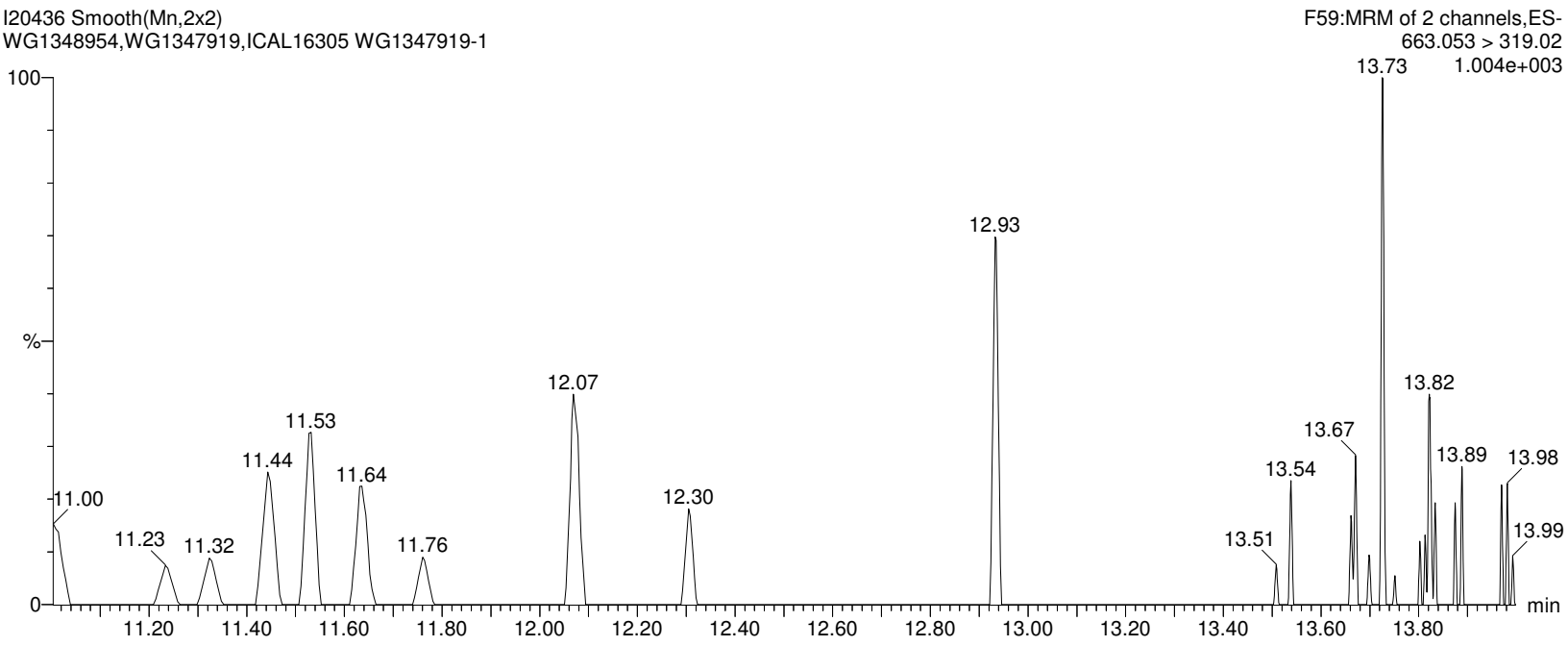

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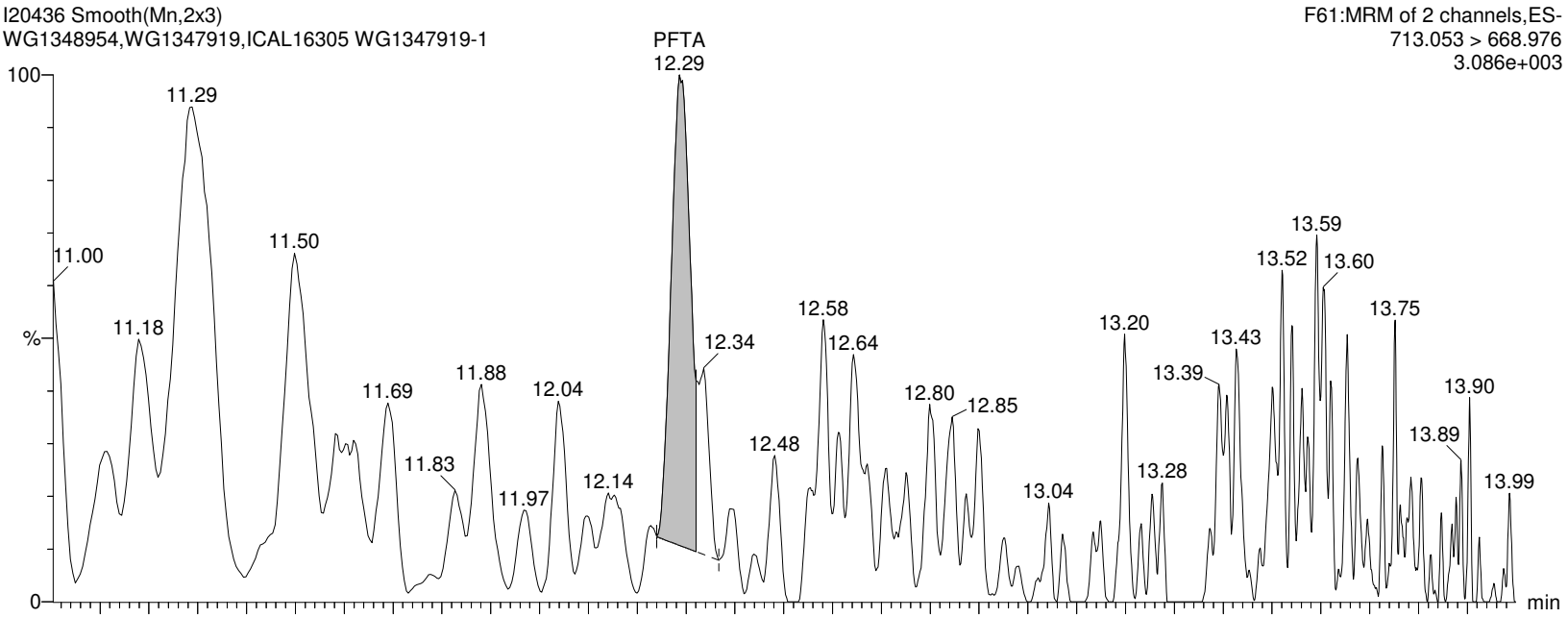

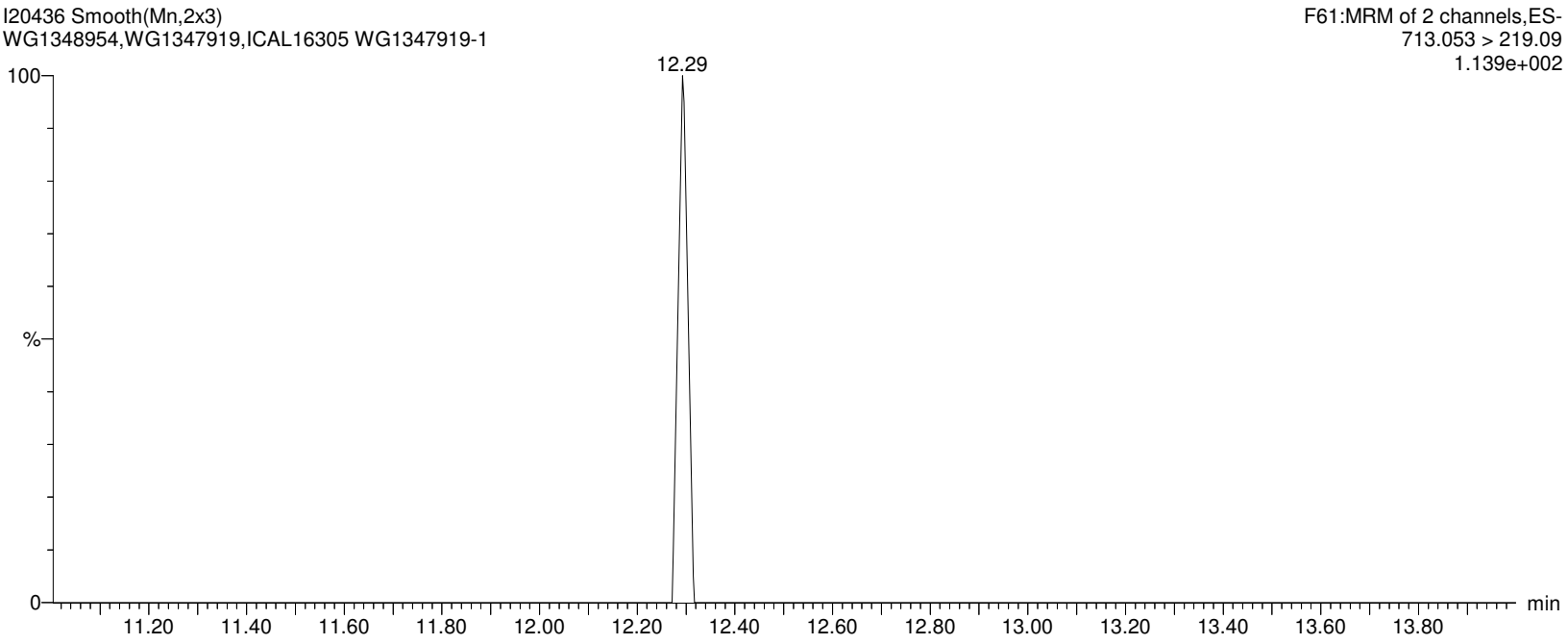

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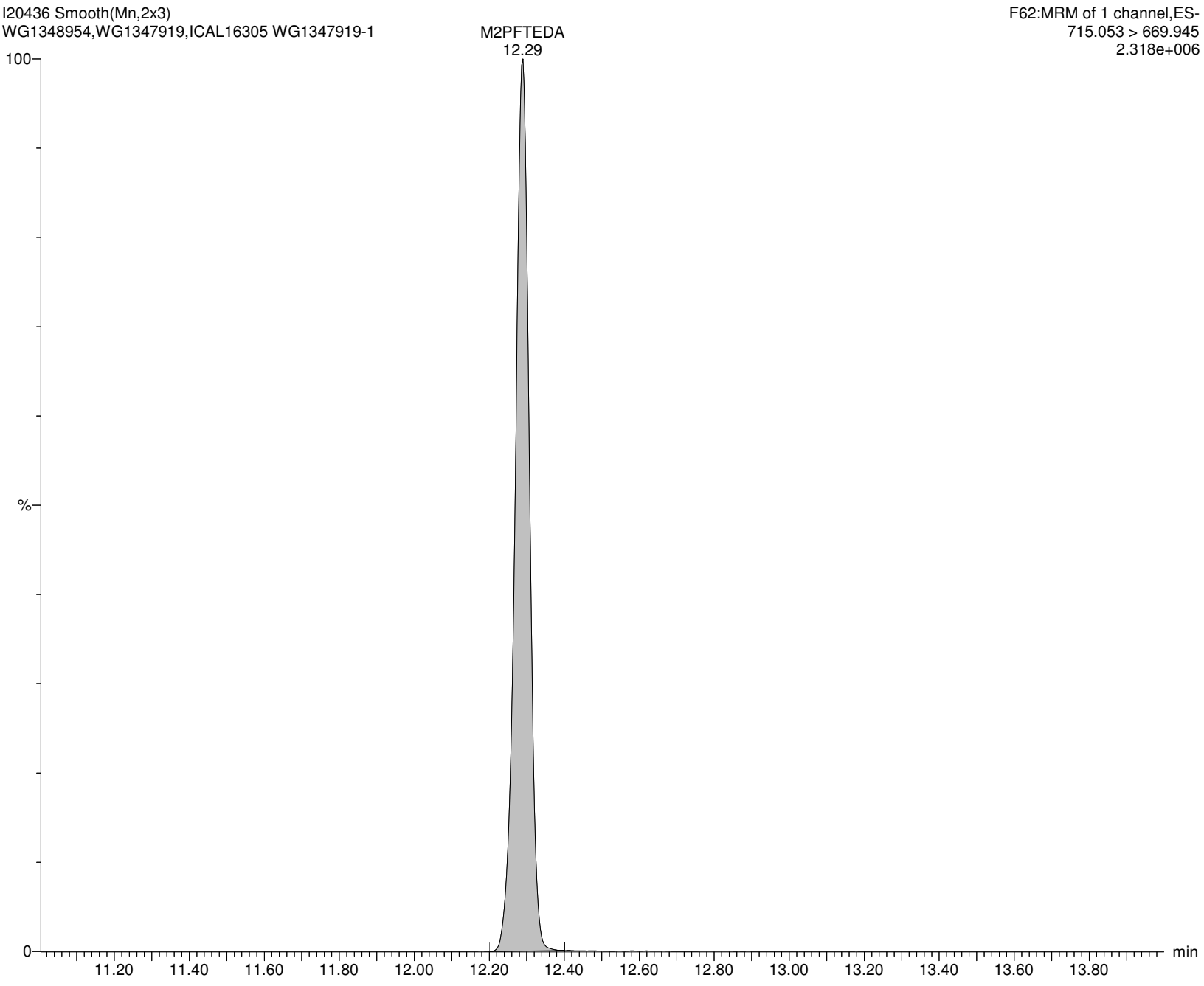

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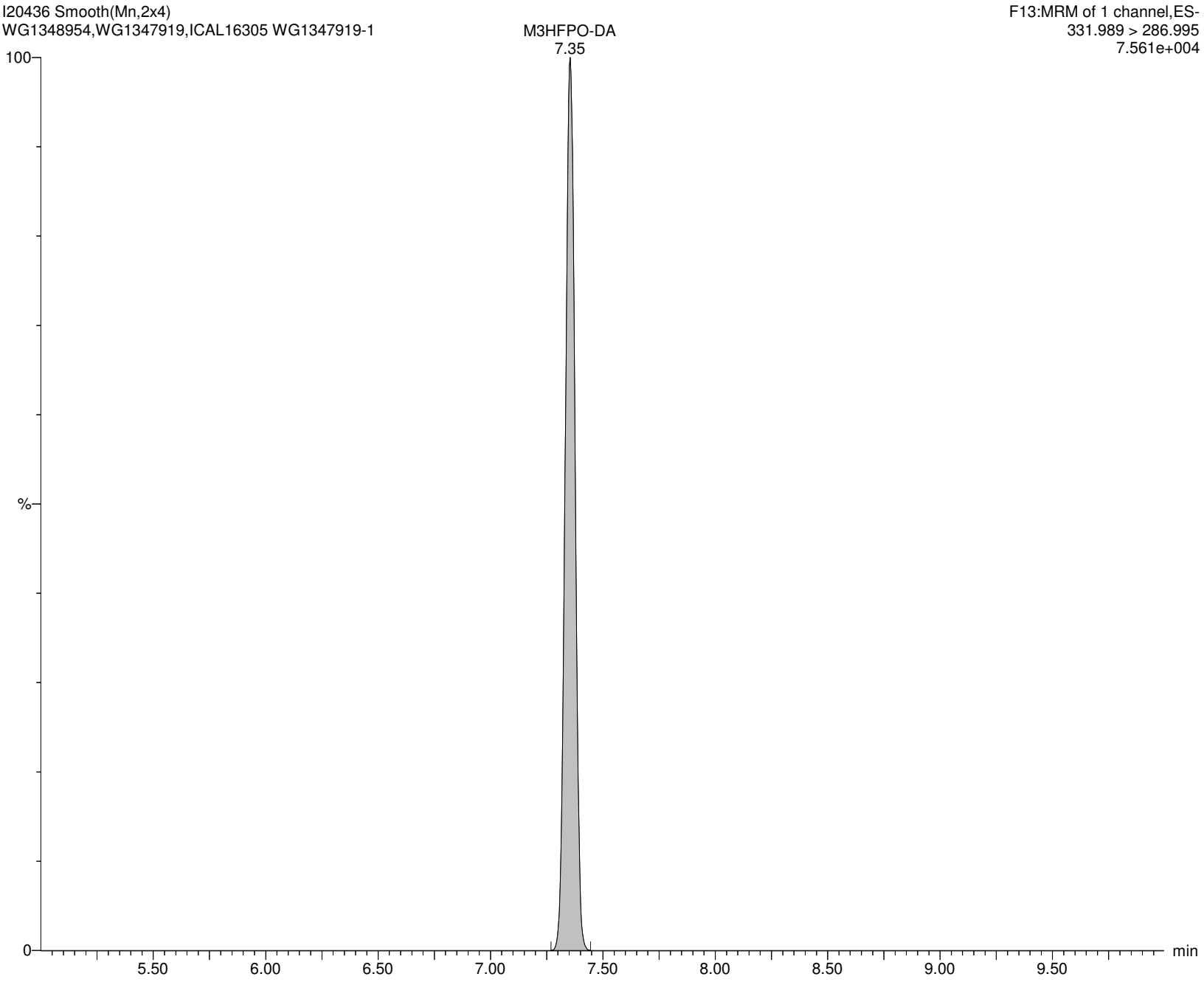

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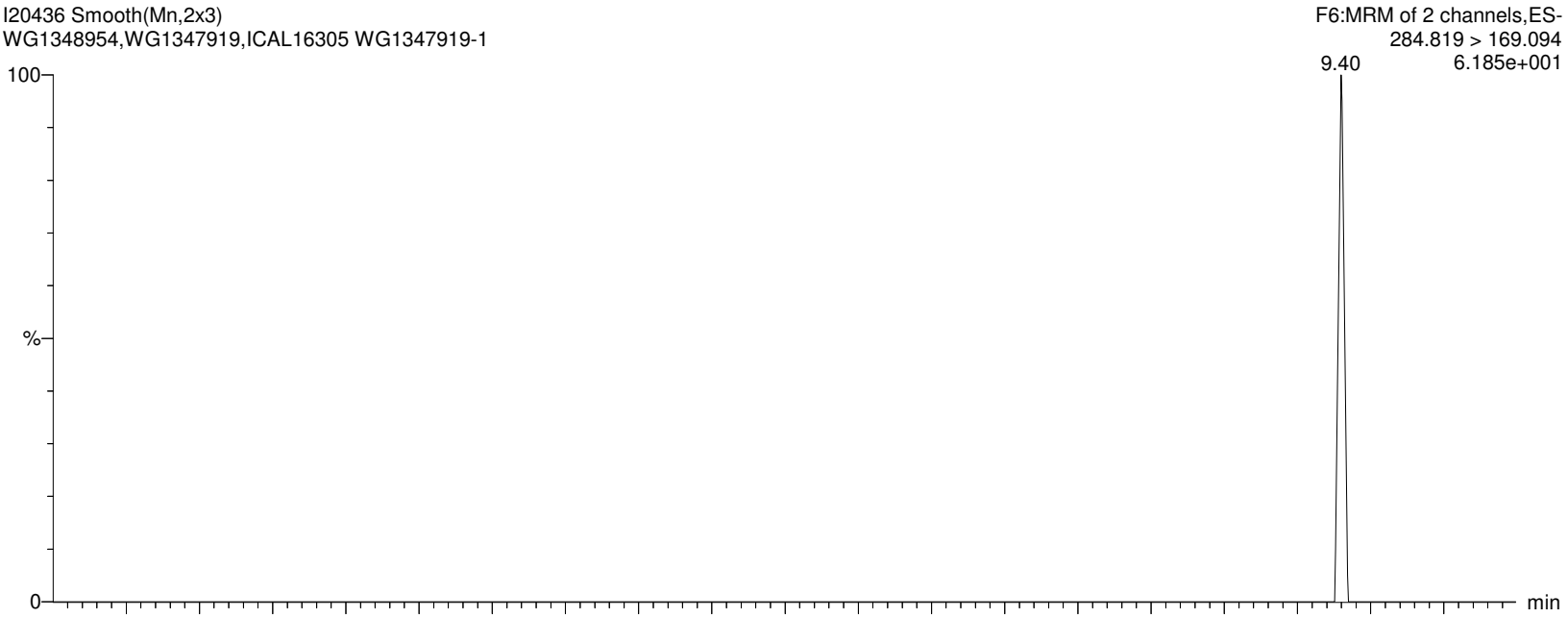

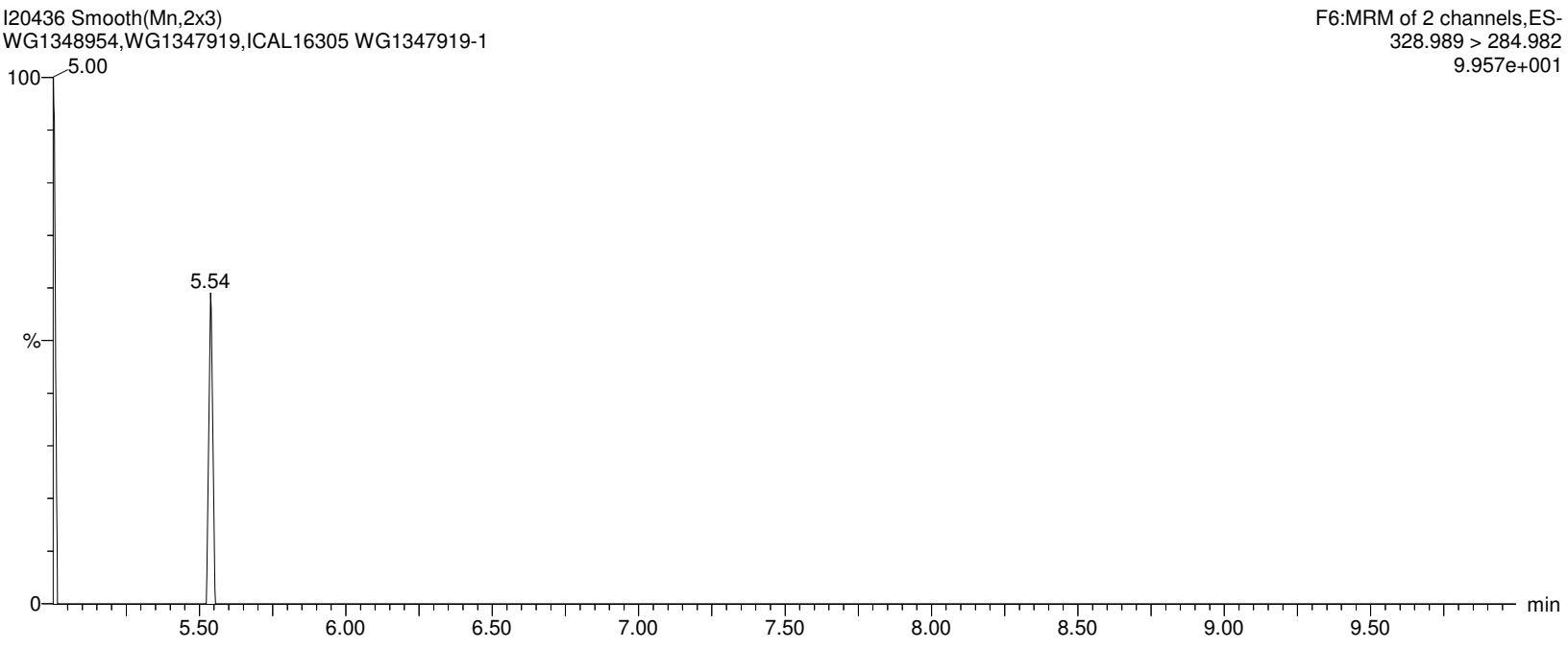

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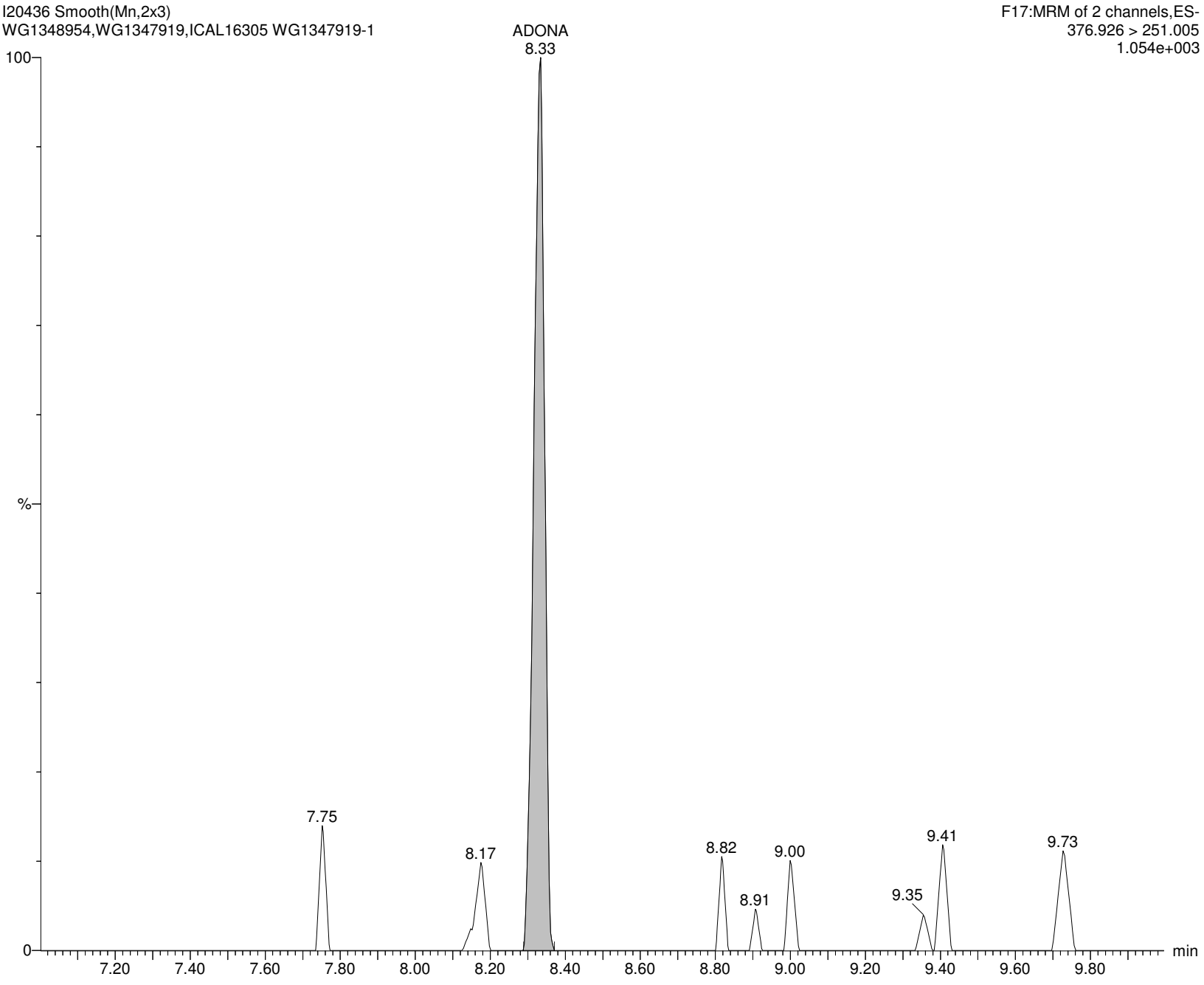

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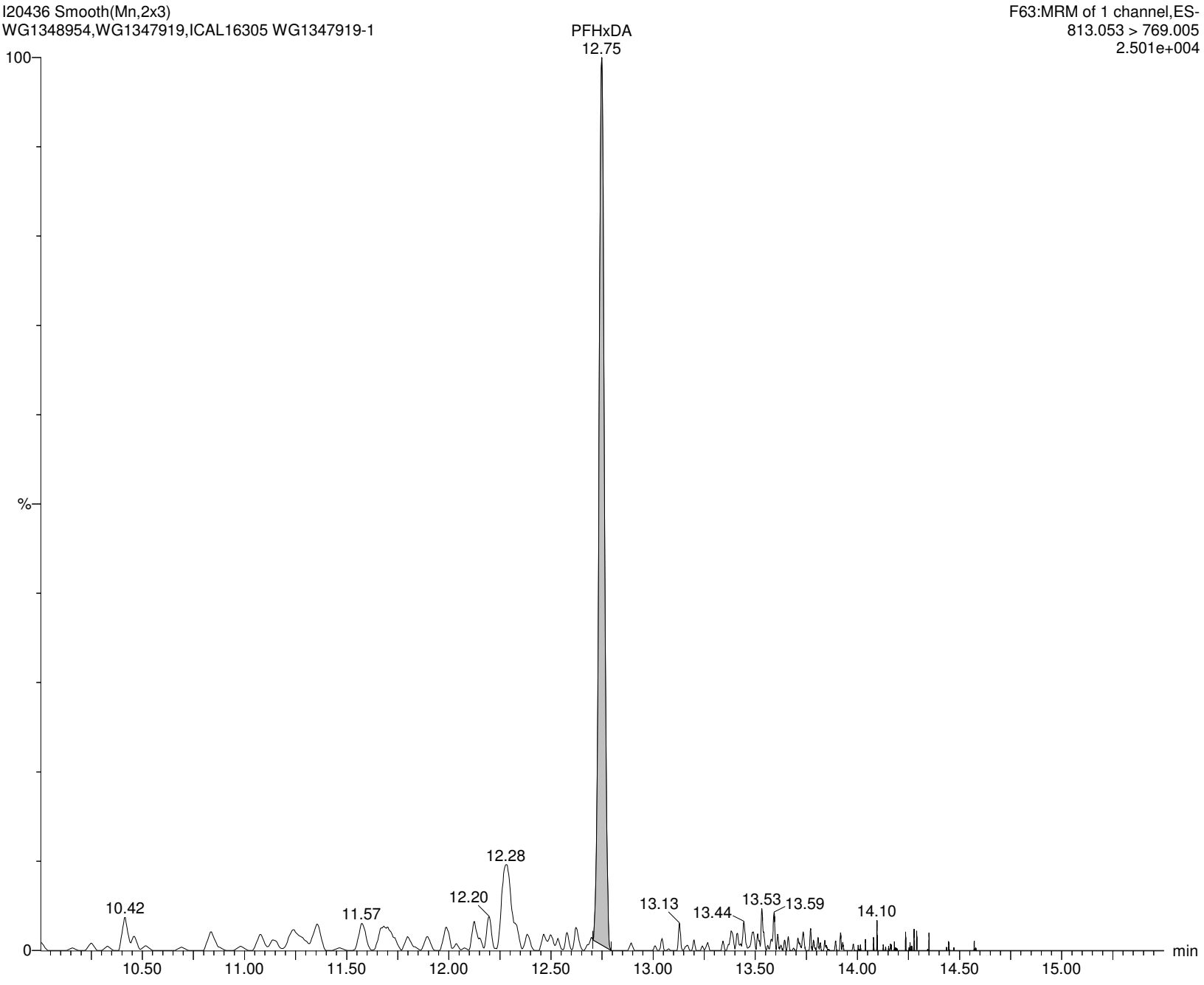

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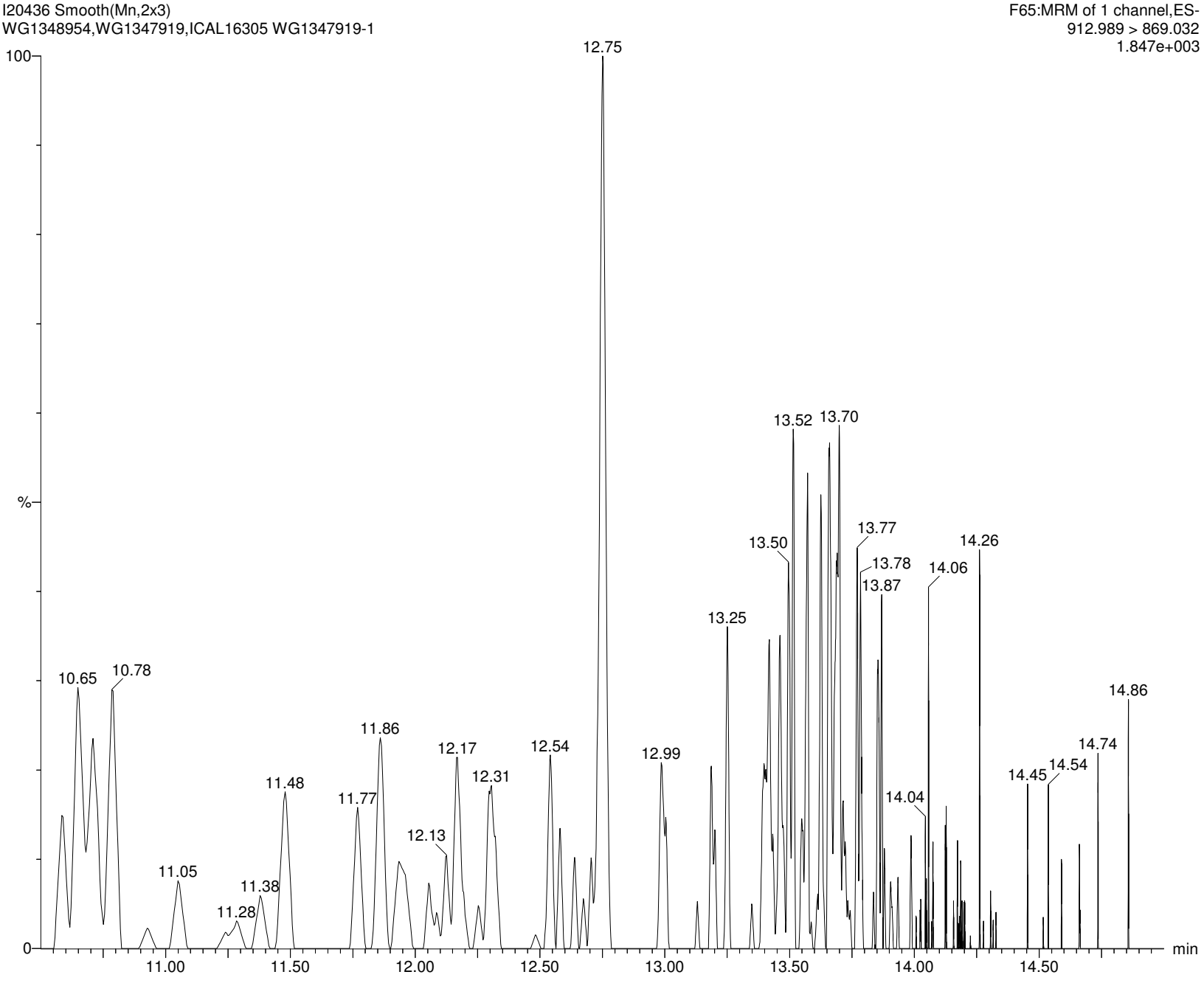

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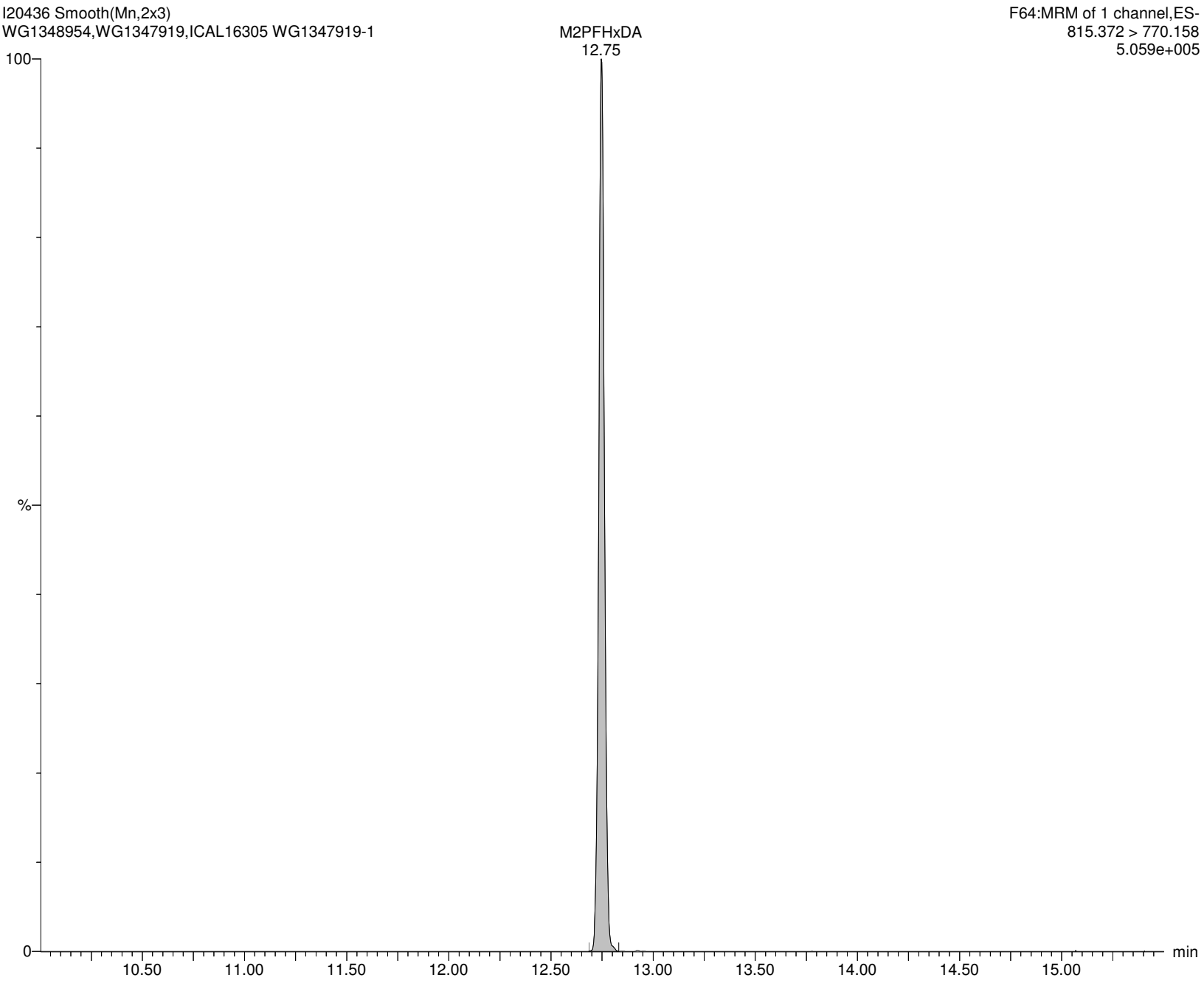

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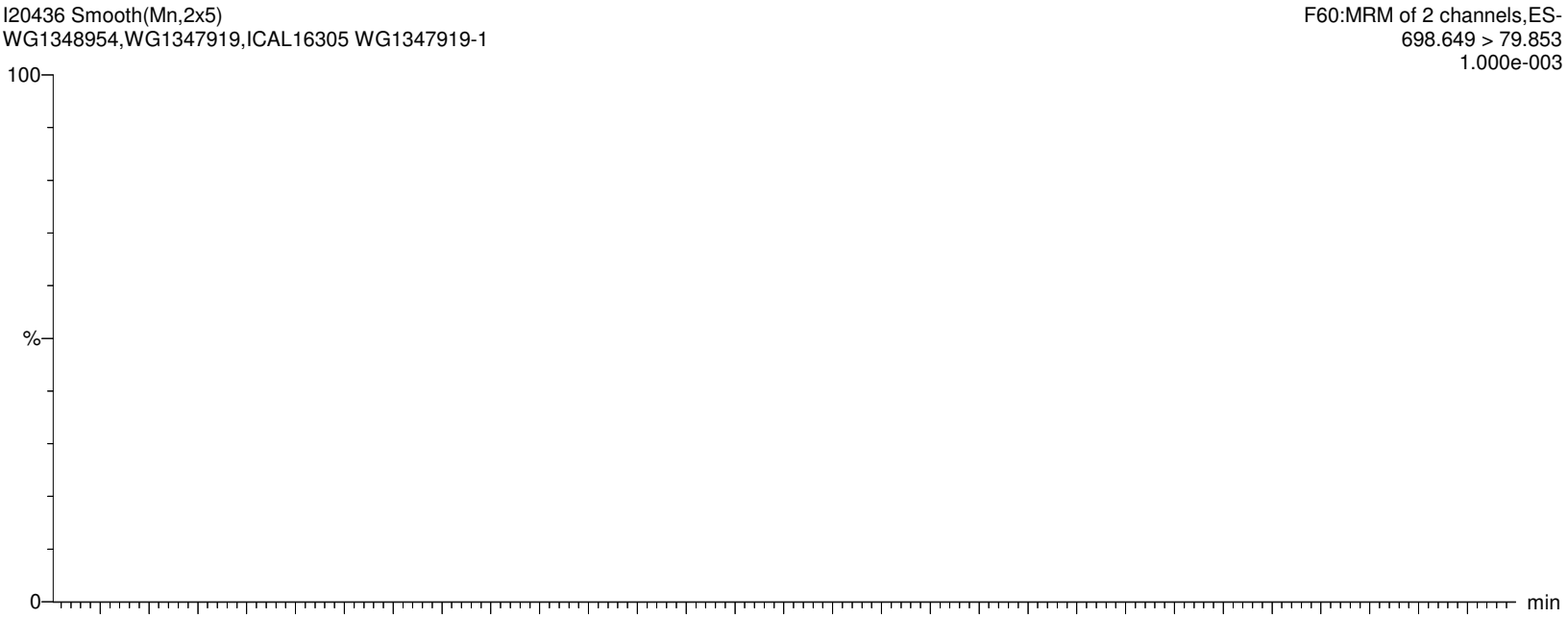

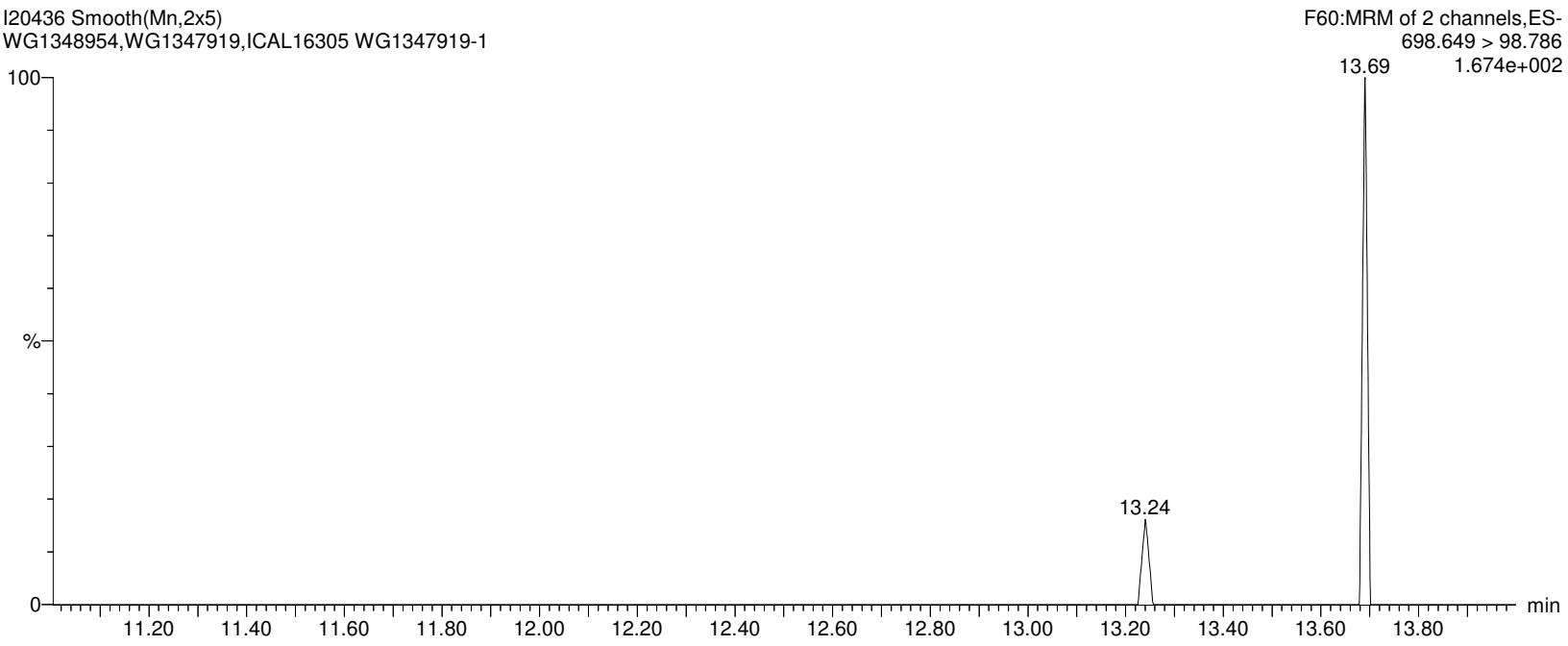

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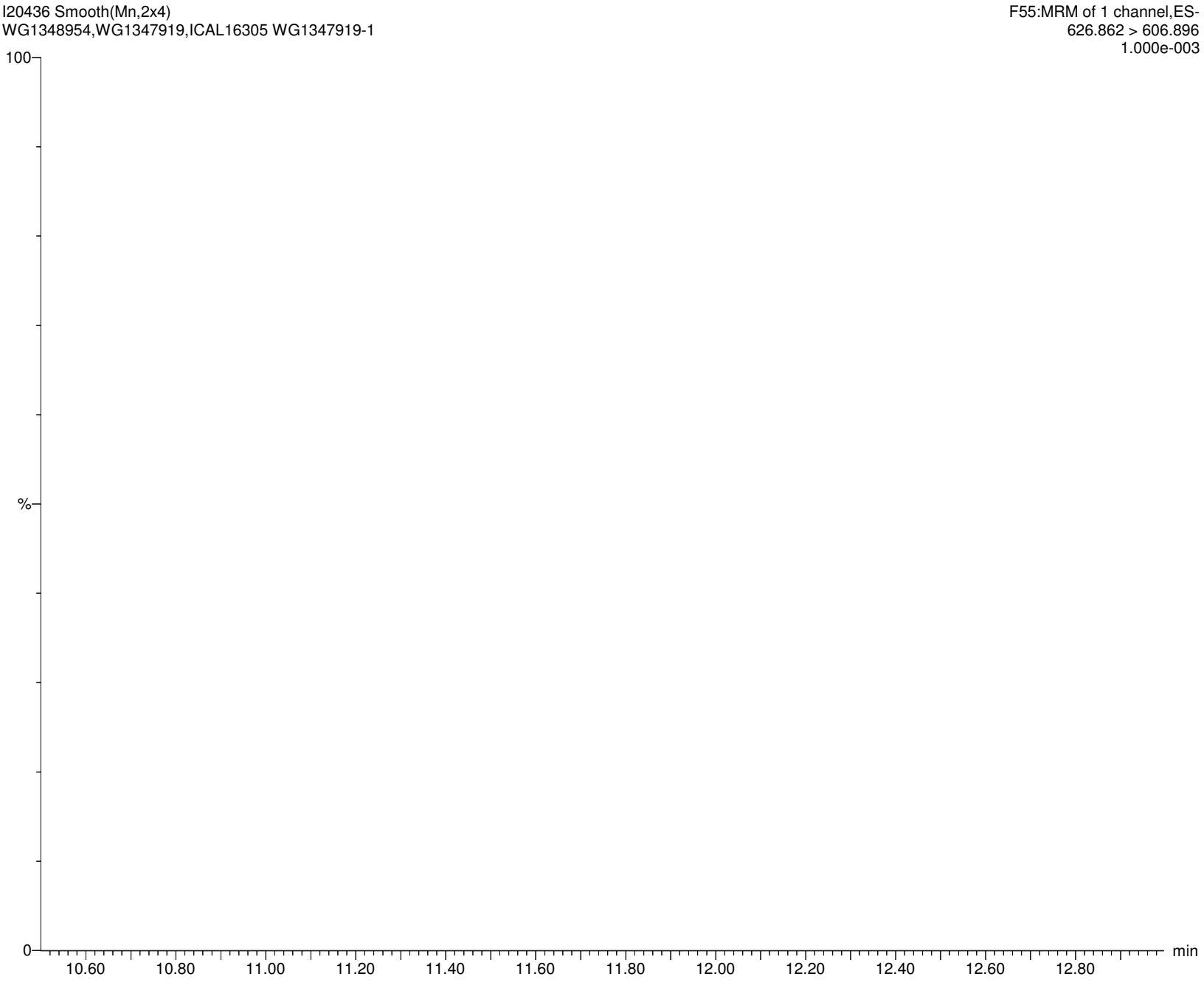

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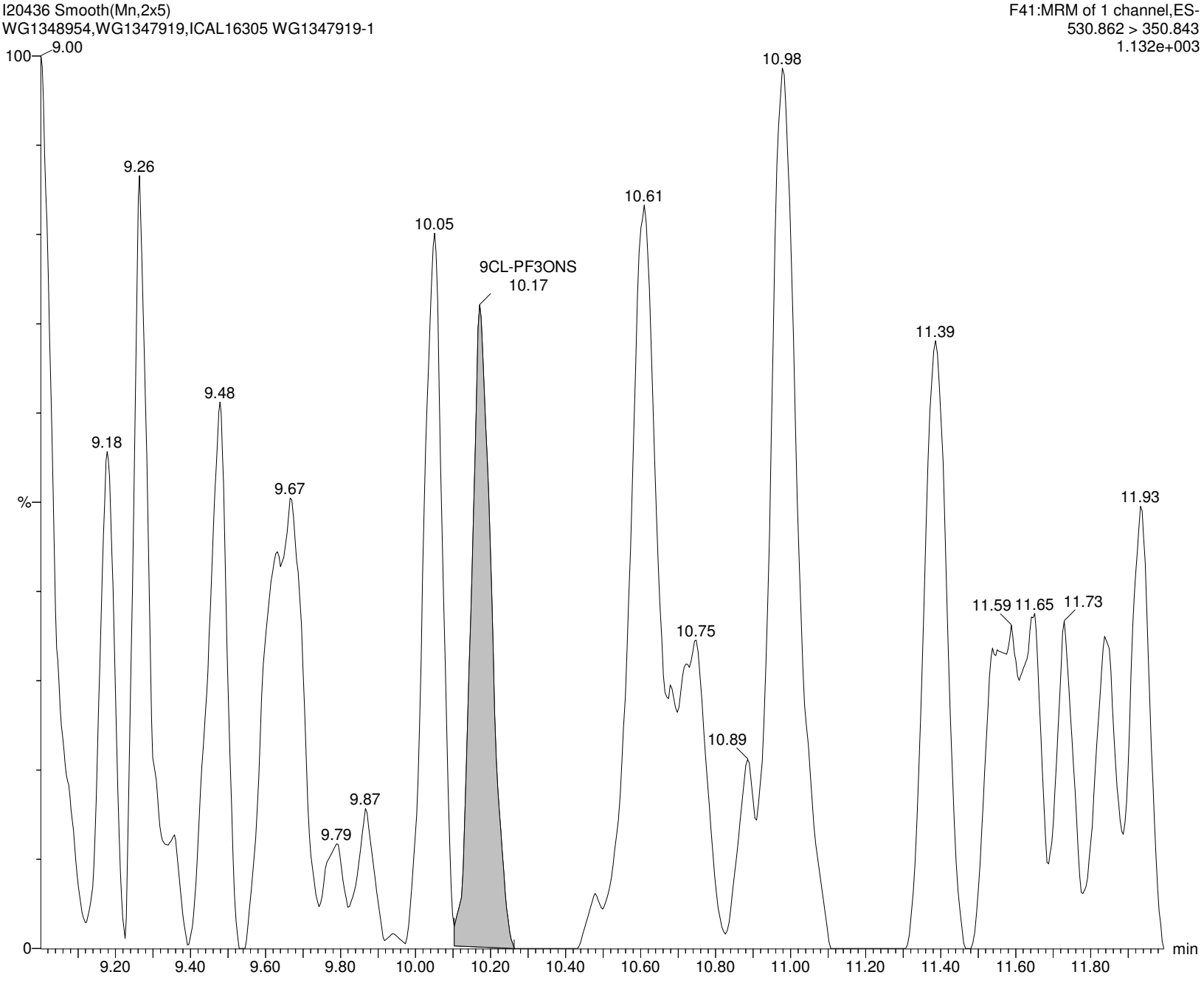
9CL-PF3ONS



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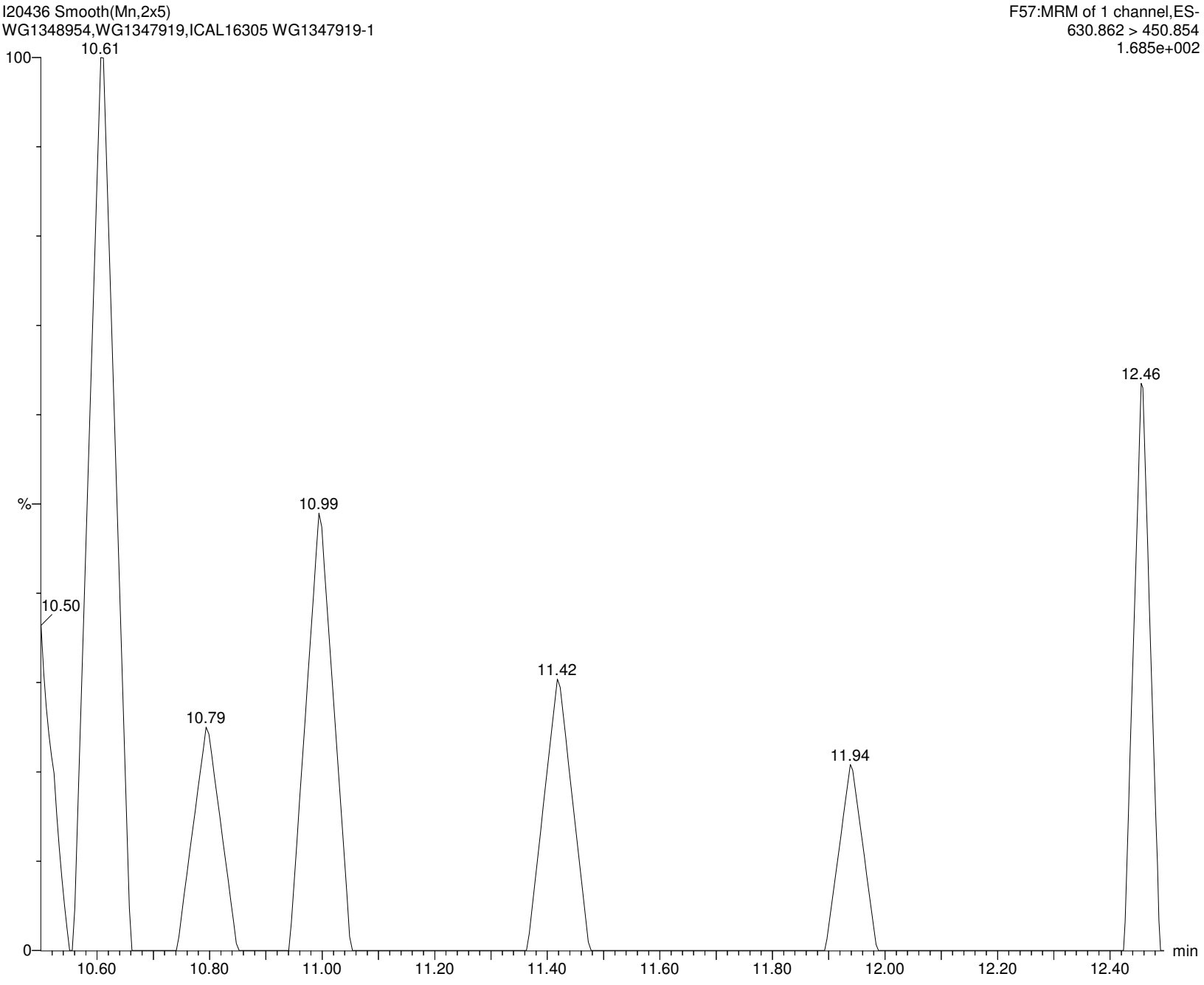
11CL-PFOUdS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Thursday, March 12, 2020 03:26:40 Eastern Daylight Time

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ID: WG1347919-2
Name: I20455
Date: 11-Mar-2020
Time: 02:54:13
Description: WG1348954,WG1347919,ICAL16305
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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.19	212.926 > 169.111	44668	M2	8.835		na	88.3
2	M3PFBA	INT STD	2.18	215.926 > 172.122	55060		11.883		na	118.8
3	MPFBA	INT STD	2.18	216.926 > 172.137	60550		10.105		na	101.1
4	PFPeA	2706-90-3	5.06	262.926 > 219.002	86632	M2	9.160		na	91.6
5	M5PFPEA	INT STD	5.06	267.989 > 223.081	97923		11.522		na	115.2
6	PFBS	375-73-5	5.69	298.926 > 79.923	13504		7.916	1.88	NO	89.5
7	M3PFBS	INT STD	5.69	301.989 > 80.254	11611		9.534		na	95.3
8	4:2FTS	757124-72-4	6.84	326.926 > 306.957	8794		8.963	2.30	NO	95.9
9	M2-4:2FTS	INT STD	6.84	329.117 > 309.079	9081		11.485		na	114.8
10	PFHxA	307-24-4	6.92	312.989 > 269.028	87826		8.793	18.54	NO	87.9
11	M5PFHxA	INT STD	6.92	317.989 > 273.045	108507		9.661		na	96.6
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	9031		7.345	1.78	NO	78.1
13	PFHpA	375-85-9	8.13	362.926 > 319.014	120514		9.103	5.97	NO	91.0
14	M4PFHpA	INT STD	8.13	366.926 > 321.979	146773		9.810		na	98.1
15	br-PFHxS	355-46-4	8.06	398.926 > 80.295	1102	M5	1.263	1.91	NO	74.3
16	L-PFHxS	355-46-4	8.28	398.926 > 80.295	6235		6.770	1.15	NO	91.5
17	PFHxS	355-46-4		398.926 > 80.295	7337		8.033		na	
18	M3PFHxS	INT STD	8.28	401.926 > 80.317	7352		10.460		na	104.6
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	NO	
20	L-PFOA	335-67-1	9.04	412.989 > 368.9	122209		9.066		YES	90.7
21	PFOA	335-67-1		412.989 > 368.9	122209		9.066		na	
22	M8PFOA	INT STD	9.04	420.989 > 375.979	146802		10.226		na	102.3
23	M2PFOA	INT STD	9.04	415.032 > 369.968	146720		13.879		na	138.8
24	6:2FTS	27619-97-2	9.00	426.989 > 406.921	7069		9.591	11.62	NO	101.0
25	M2-6:2FTS	INT STD	9.00	428.989 > 408.917	9292		12.024		na	120.2
26	PFHpS	375-92-8	9.13	448.926 > 80.257	5274		8.916	0.78	NO	93.9
27	PFNA	375-95-1	9.79	462.989 > 418.931	109647		8.962	4.57	NO	89.6
28	M9PFNA	INT STD	9.79	472.053 > 426.947	149345		10.572		na	105.7
29	br-PFOS	1763-23-1	9.66	498.989 > 80.294	1790	M5	1.522	3.96	NO	76.1
30	L-PFOS	1763-23-1	9.84	498.989 > 80.294	5992		6.796	1.47	NO	93.1
31	PFOS	1763-23-1		498.989 > 80.294	7782		8.318		na	
32	M4PFOS	INT STD	9.84	503.032 > 80.306	8701		12.458		na	124.6
33	M8PFOS	INT STD	9.84	507.053 > 80.294	8983		10.062		na	100.6
34	PFDA	335-76-2	10.43	513.053 > 468.906	107382		8.983	7.20	NO	89.8
35	M2PFDA	INT STD	10.43	515.053 > 469.934	133103		15.075		na	150.8
36	M6PFDA	INT STD	10.43	519.053 > 473.931	139344		10.129		na	101.3
37	8:2FTS	39108-34-4	10.42	526.926 > 506.818	6077		9.293		na	96.8
38	M2-8:2FTS	INT STD	10.42	529.053 > 508.945	6193		13.661		na	136.6
39	PFNS	68259-12-1	10.46	548.989 > 80.249	6955		8.324	1.18	NO	86.7

all concentration units in (ng/mL)

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Name: I20455
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Time: 02:54:13
Description: WG1348954,WG1347919,ICAL16305
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.83	573.096 > 418.987	15539		9.919		na	99.2
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.84	570.053 > 418.917	14515	M4	10.023	2.75	NO	100.2
43	NMeFOSAA	2355-31-9		570.053 > 418.917	14515		10.023		na	
44	PFUnA	2058-94-8	10.99	562.989 > 518.903	112386		8.932	8.10	NO	89.3
45	M7-PFUDA	INT STD	10.99	570.053 > 524.923	131571		10.781		na	107.8
46	PFDS	335-77-3	11.00	598.926 > 80.314	5534		9.266	1.01	NO	96.0
47	FOSA	754-91-6	10.89	497.989 > 78.245	16218		9.460	125.24	NO	94.6
48	M8FOSA	INT STD	10.89	506.053 > 78.286	16134		4.960		na	49.6
49	d5-NEtFOSAA	INT STD	11.13	589.117 > 418.929	12261		8.860		na	88.6
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.14	583.989 > 418.927	9878		8.534	2.73	NO	85.3
52	NEtFOSAA	2991-50-6		583.989 > 418.927	9878		8.534		na	
53	PFDoA	307-55-1	11.48	612.989 > 568.967	106051		9.116	14.56	NO	91.2
54	MPFDOA	INT STD	11.48	614.989 > 569.92	137354		10.032		na	100.3
55	PFTrDA	72629-94-8	11.90	663.053 > 618.969	93607		10.058	11.57	NO	100.6
56	PFTA	376-06-7	12.26	713.053 > 668.976	73862	M4	9.217	9.72	NO	92.2
57	M2PFTEDA	INT STD	12.26	715.053 > 669.945	100065		9.202		na	92.0
58	M3HFPO-DA	INT STD	7.33	331.989 > 286.995	6215		98.805		na	49.4
59	HFPO-DA	13252-13-6	7.33	284.819 > 169.094	9101		176.367	2.65	YES	88.2
60	ADONA	958445-44-8	8.30	376.926 > 251.005	208832		10.821		na	114.4
61	PFHxDA		12.73	813.053 > 769.005	78386		13.090		na	130.9
62	PFODA		12.97	912.989 > 869.032	31139		7.075		na	70.7
63	M2PFHxDA		12.73	815.372 > 770.158	16398		7.084		na	70.8
64	PFDoS		11.89	698.649 > 79.853	7874		12.932	1.93	YES	129.3
65	10:2FTS		11.49	626.862 > 606.896	8684	M4	13.959		na	144.8
66	9CL-PF3ONS		10.19	530.862 > 350.843	67785		11.482		na	123.2
67	11CL-PFOUdS		11.27	630.862 > 450.854	56194		11.291		na	119.9

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Name: I20455
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Time: 02:54:13
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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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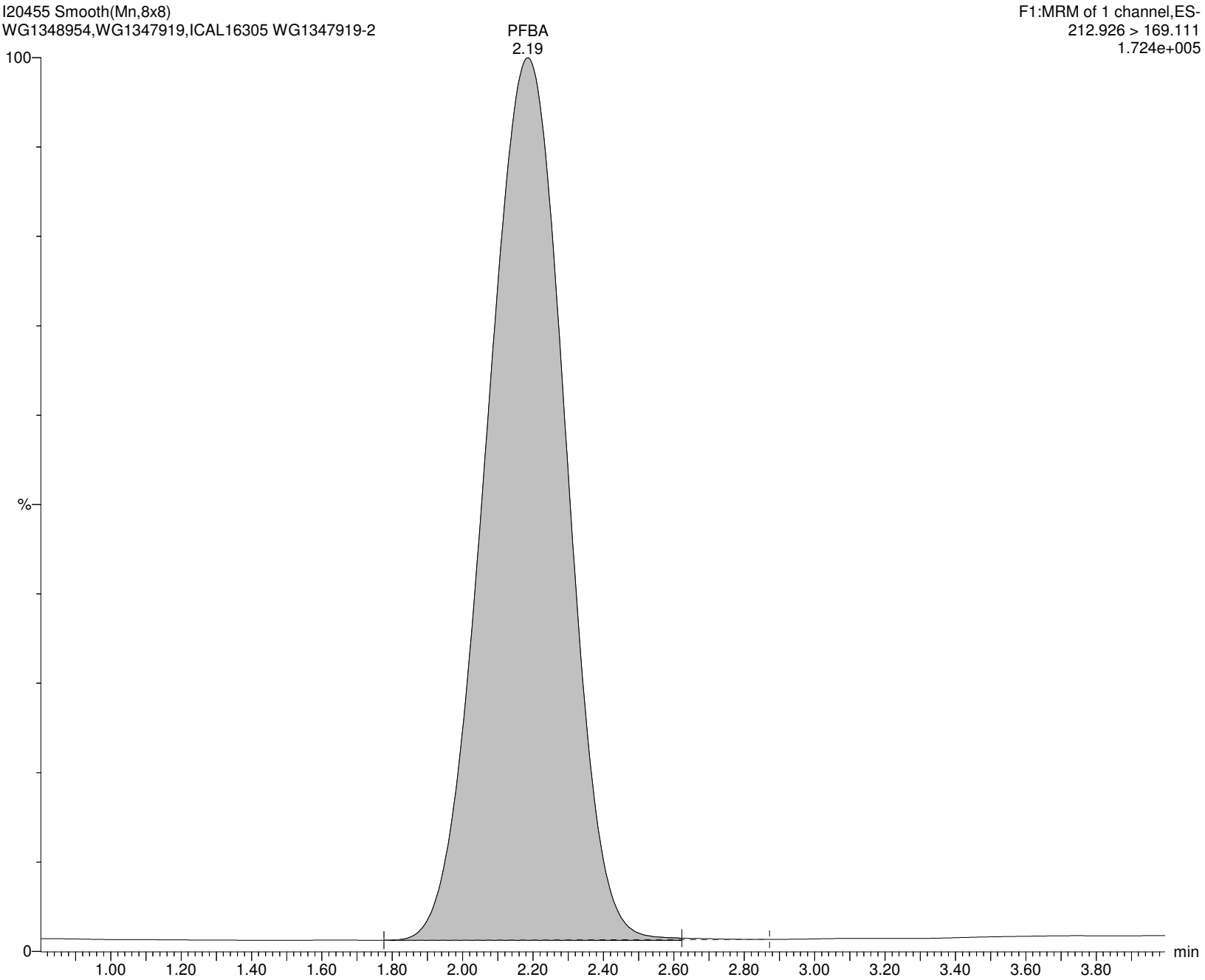

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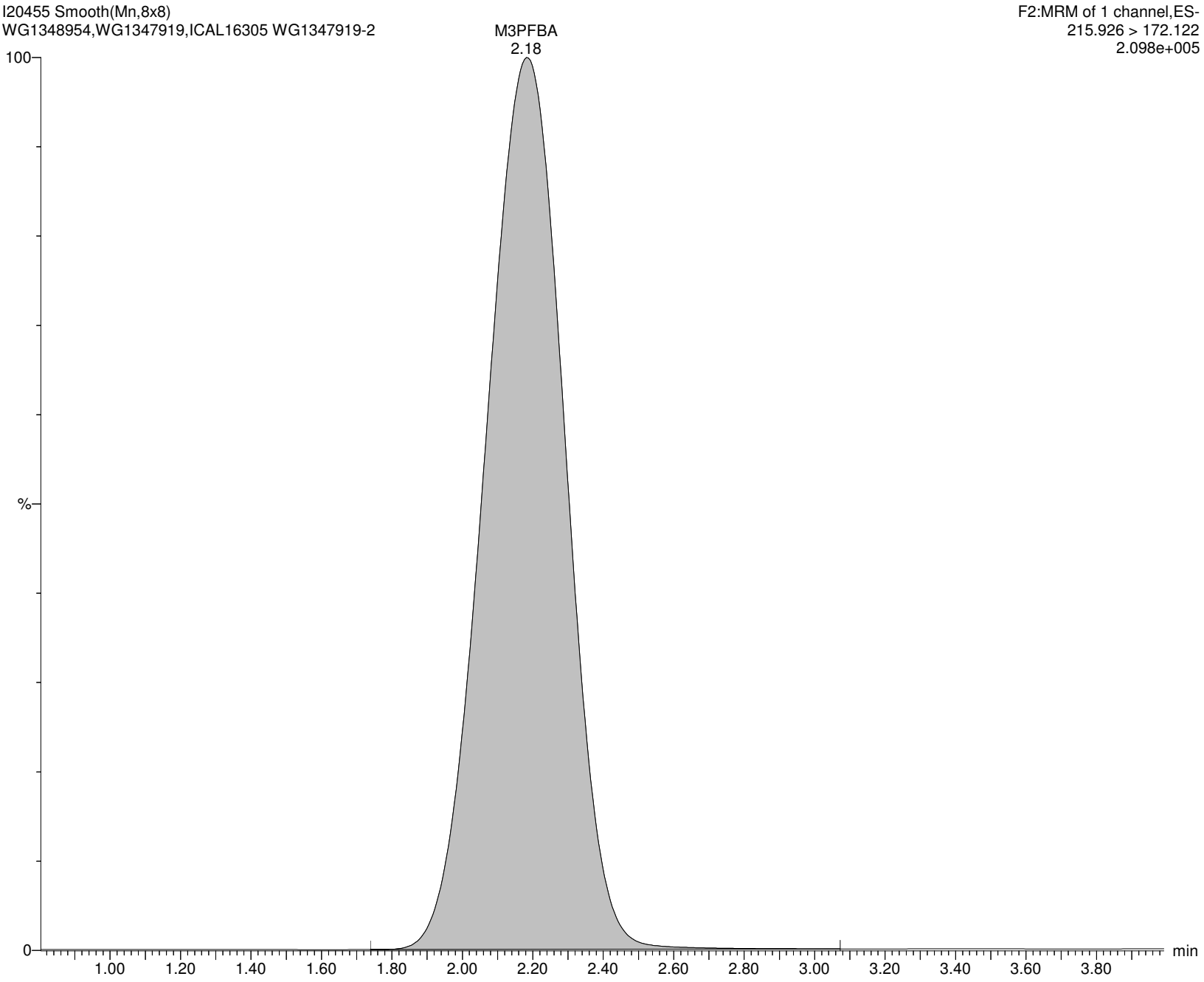

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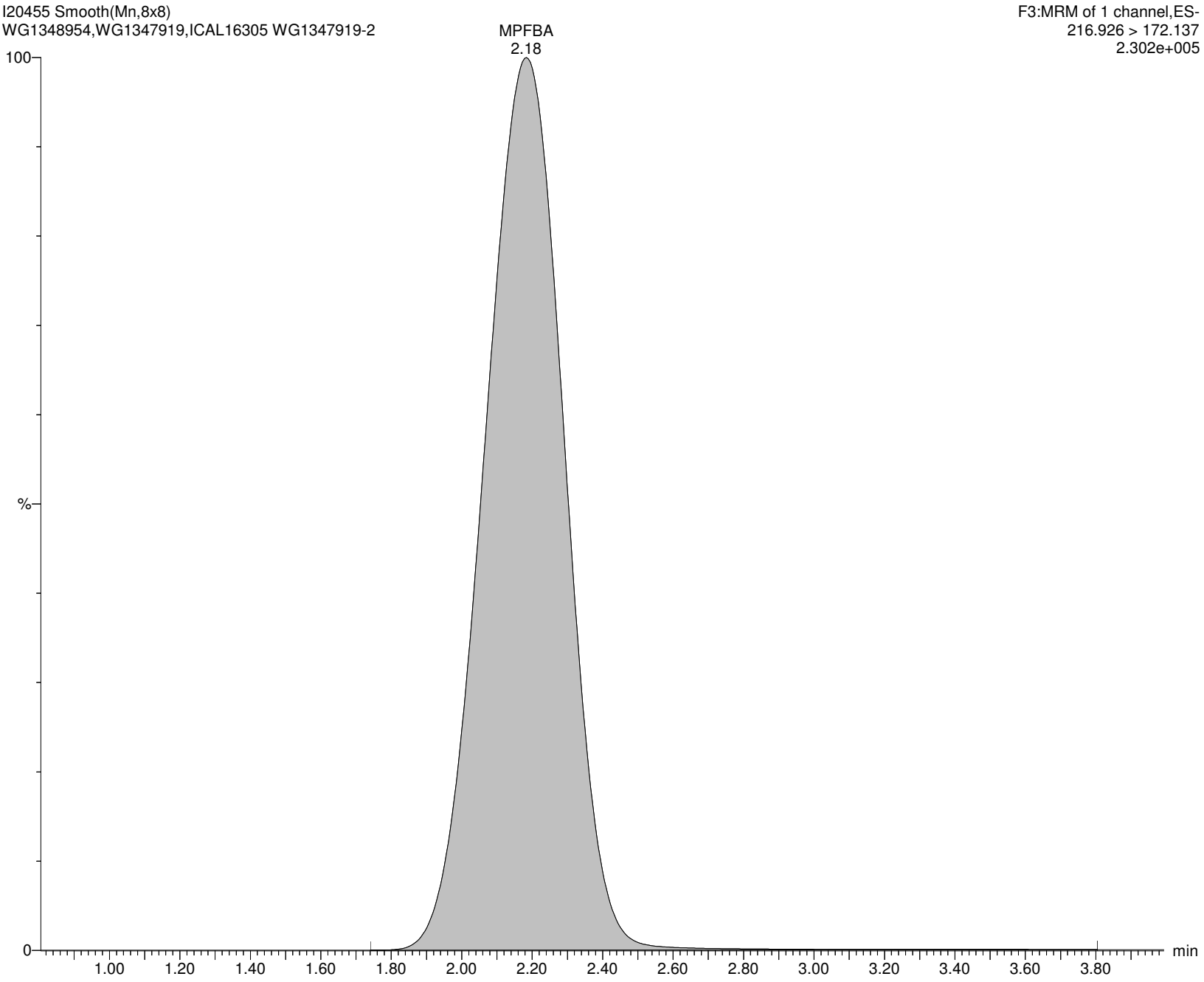

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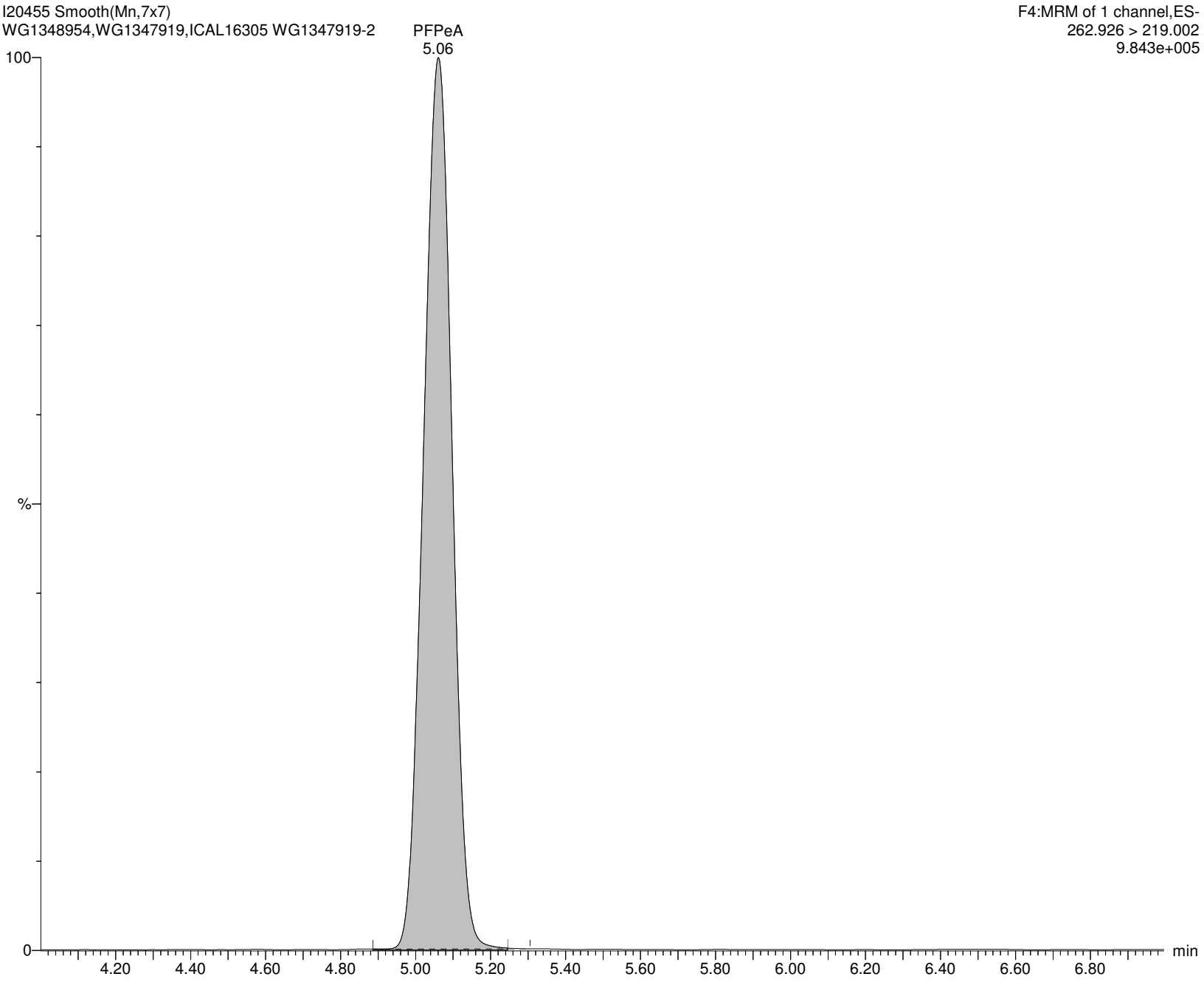

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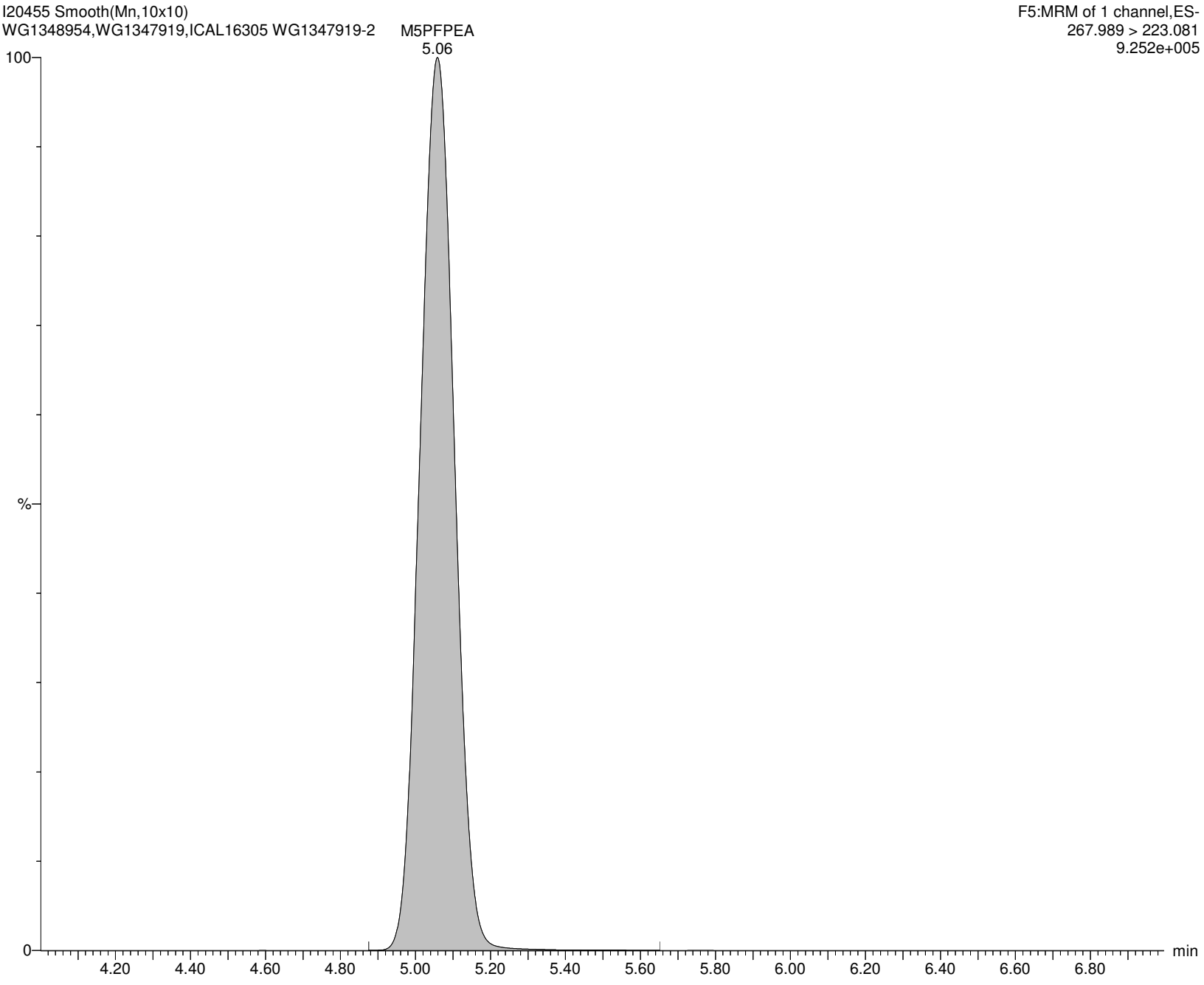

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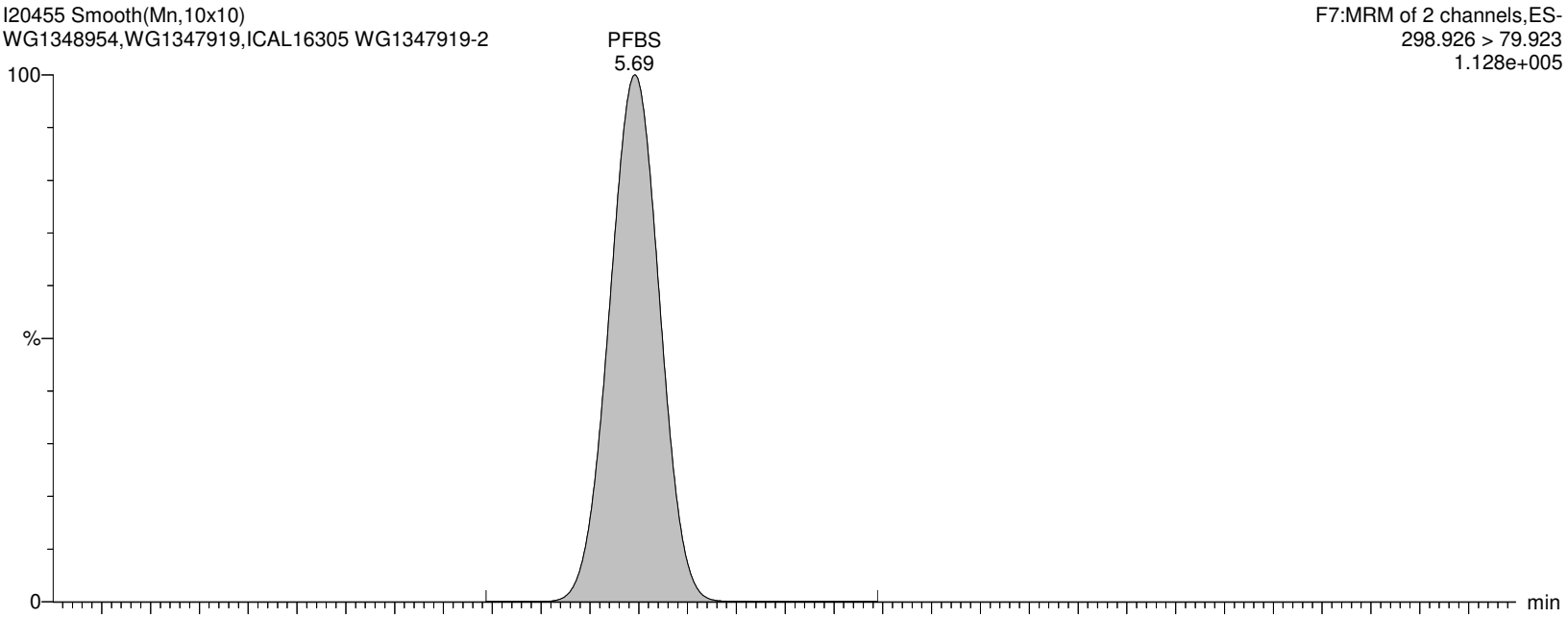

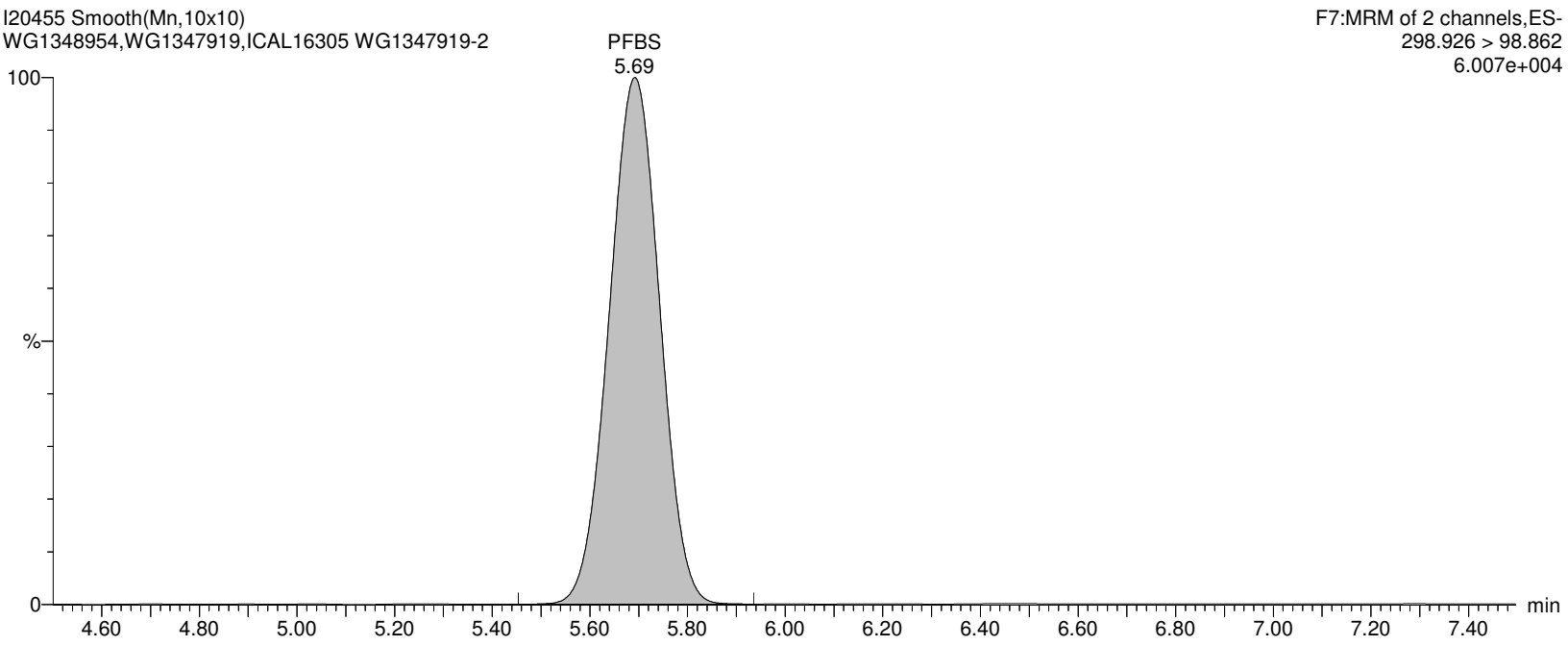

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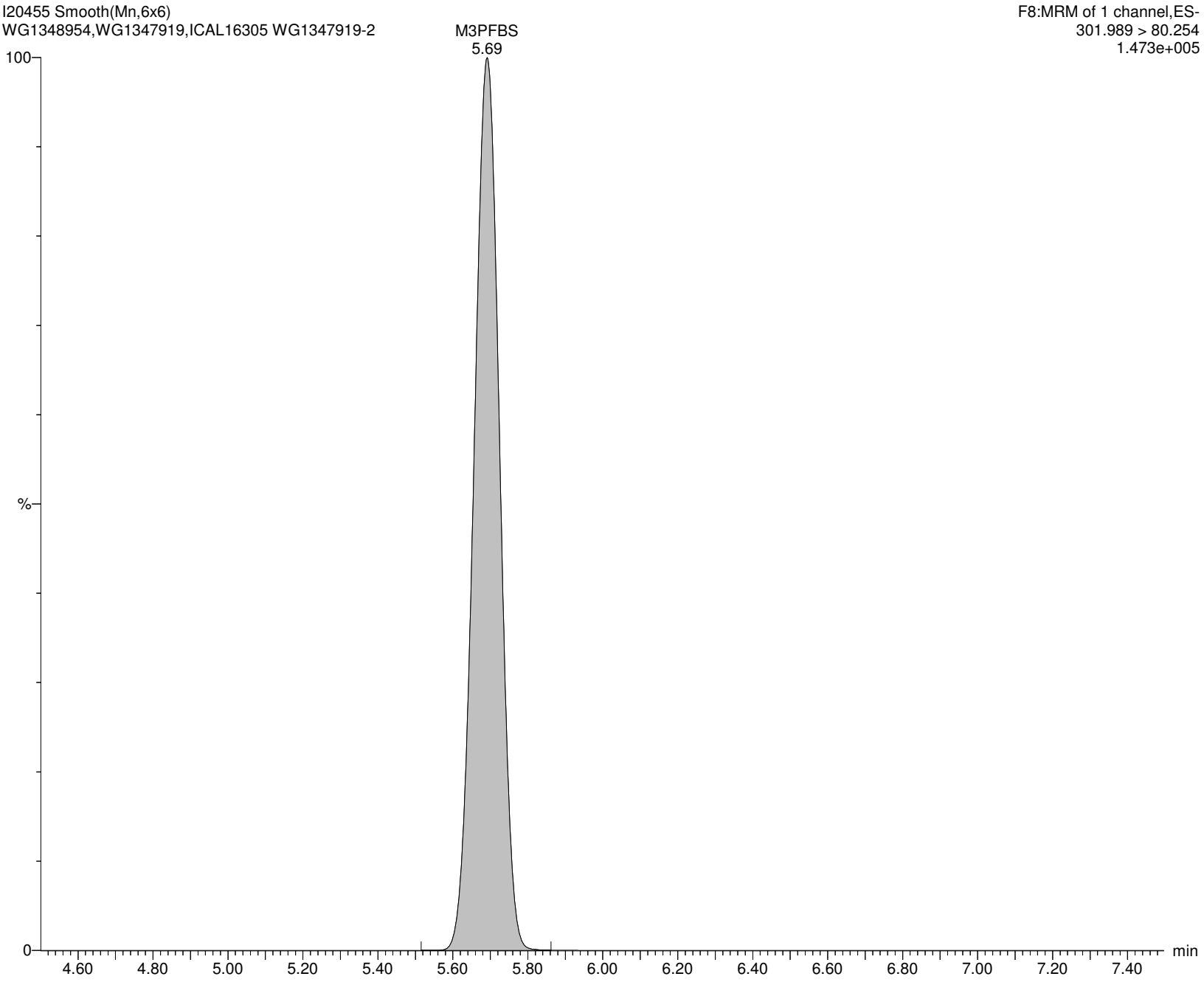

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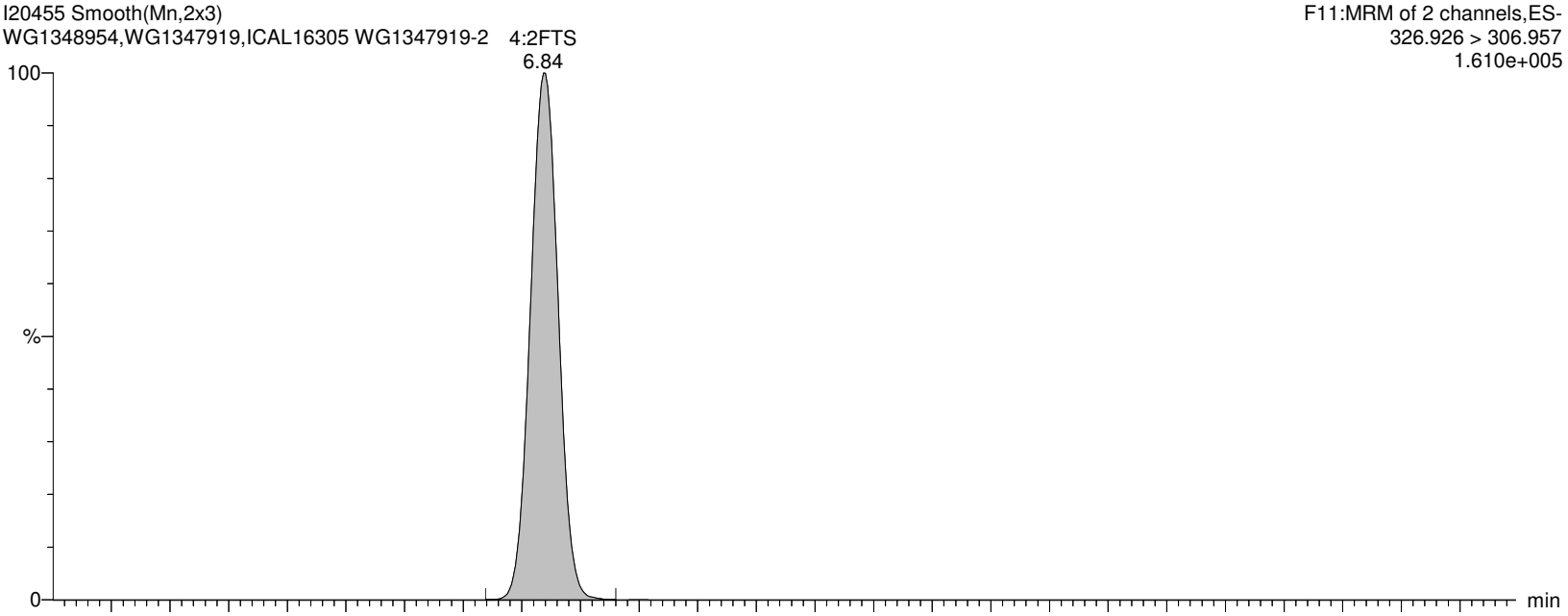
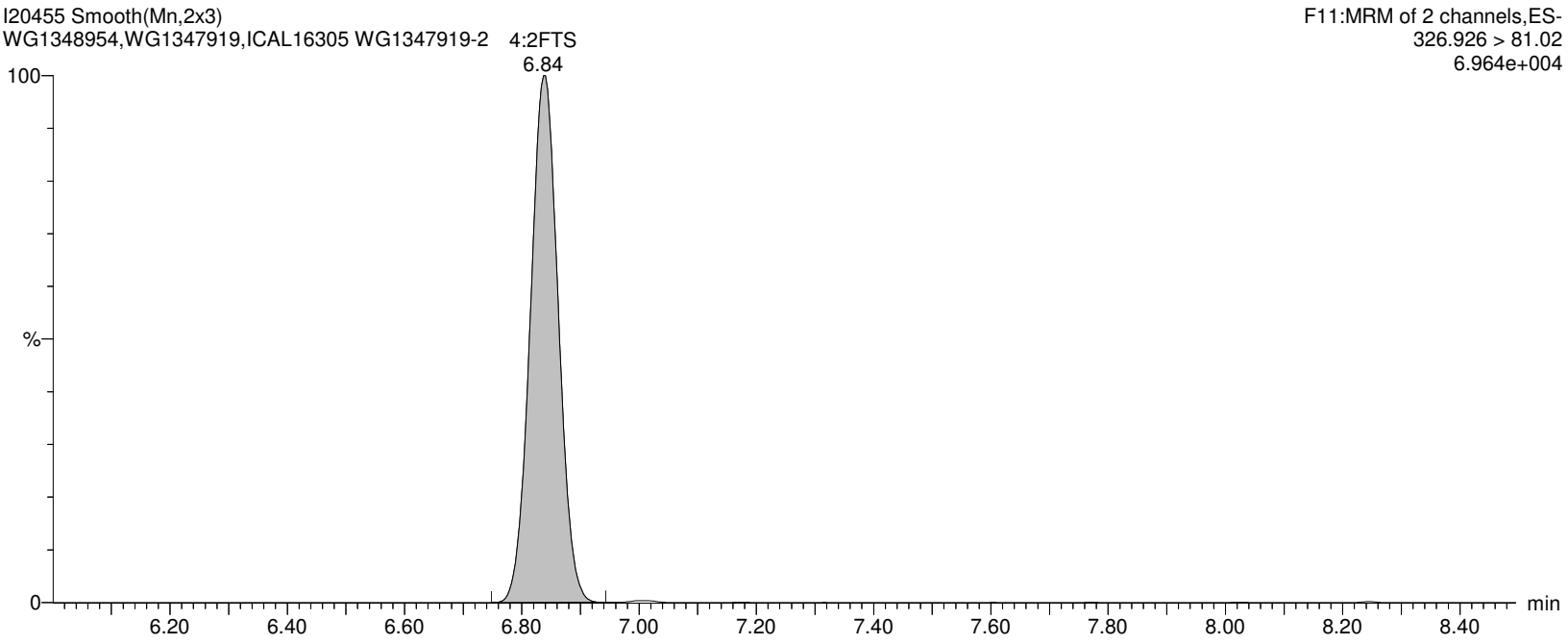
4:2FTS





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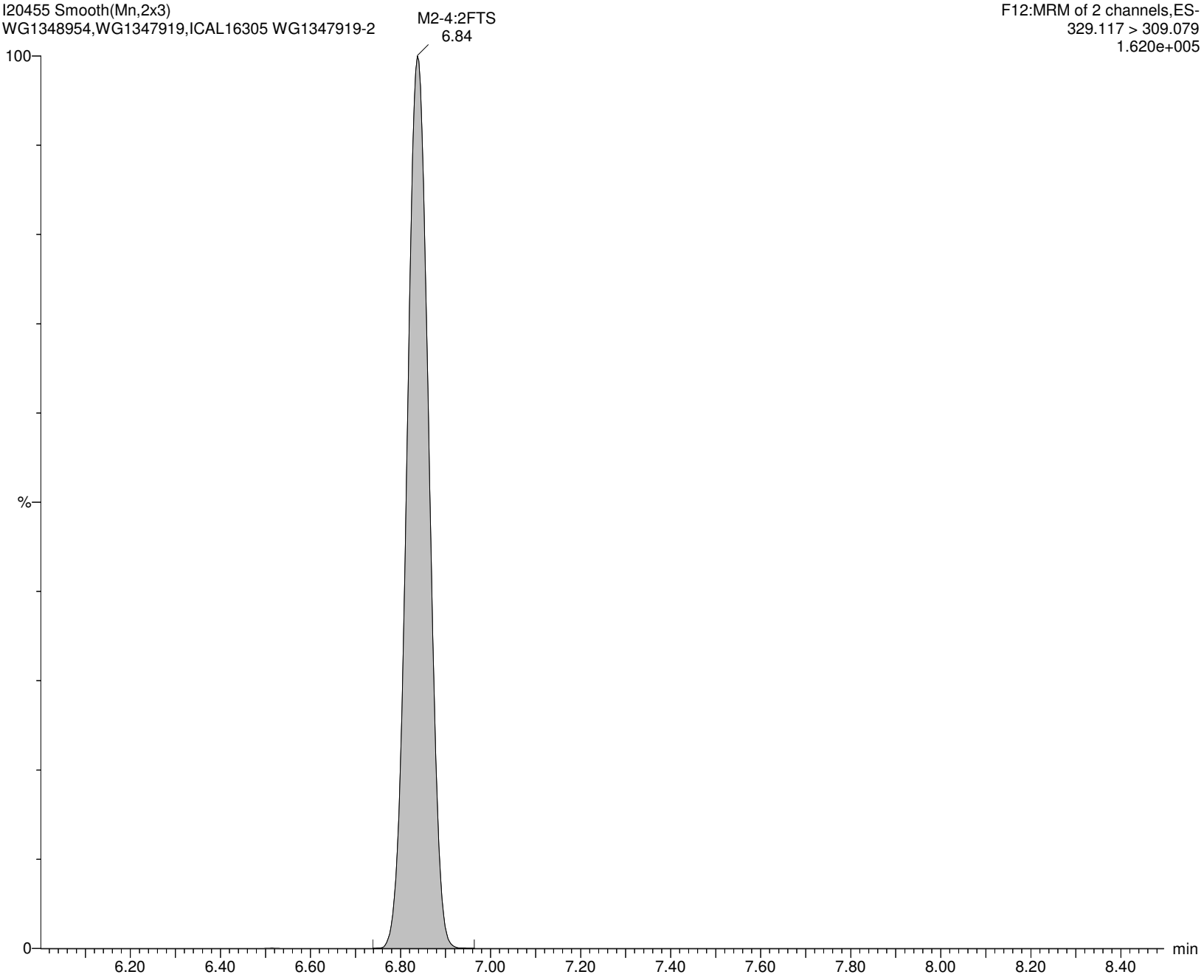

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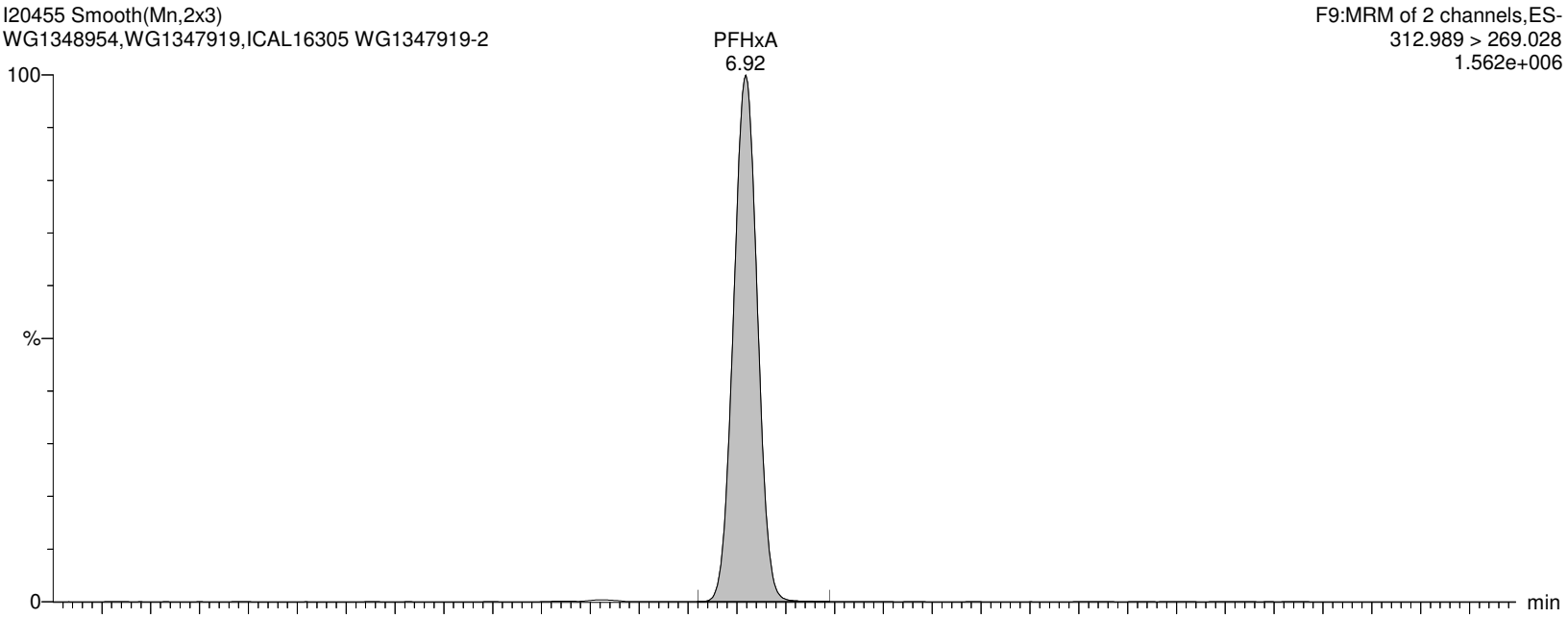
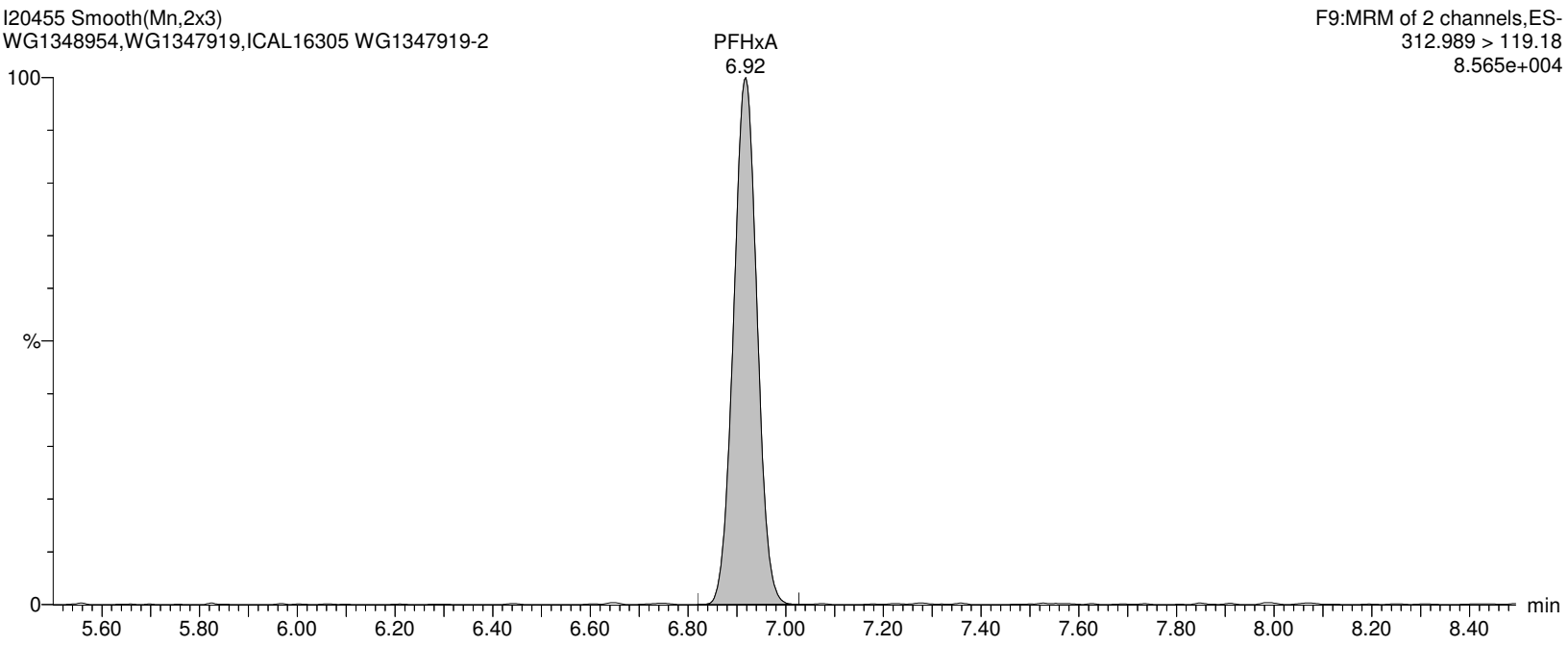
PFHxA





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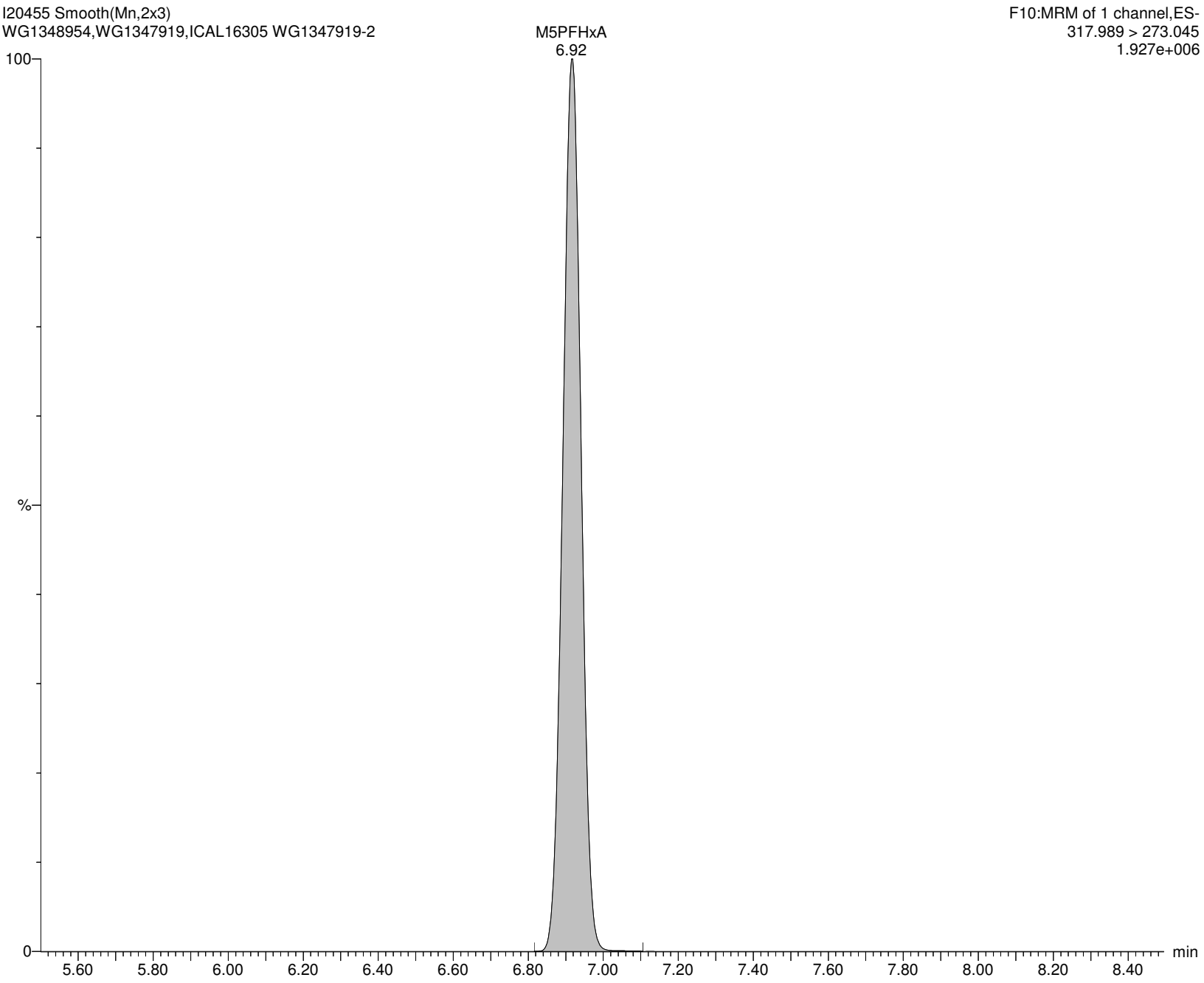

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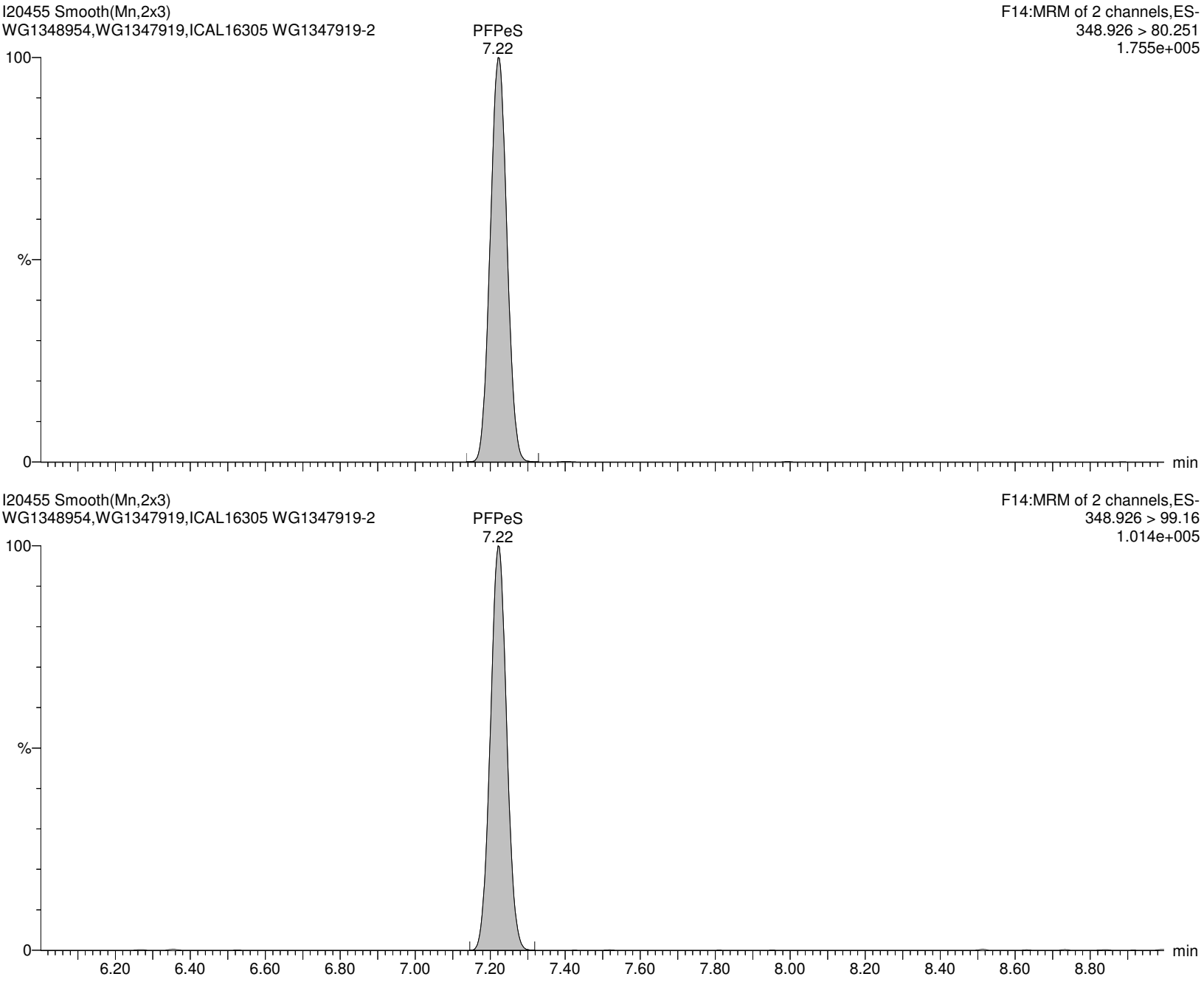

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Name: I20455
ID: WG1347919-2
Date: 11-Mar-2020
Time: 02:54:13
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 2:A,8
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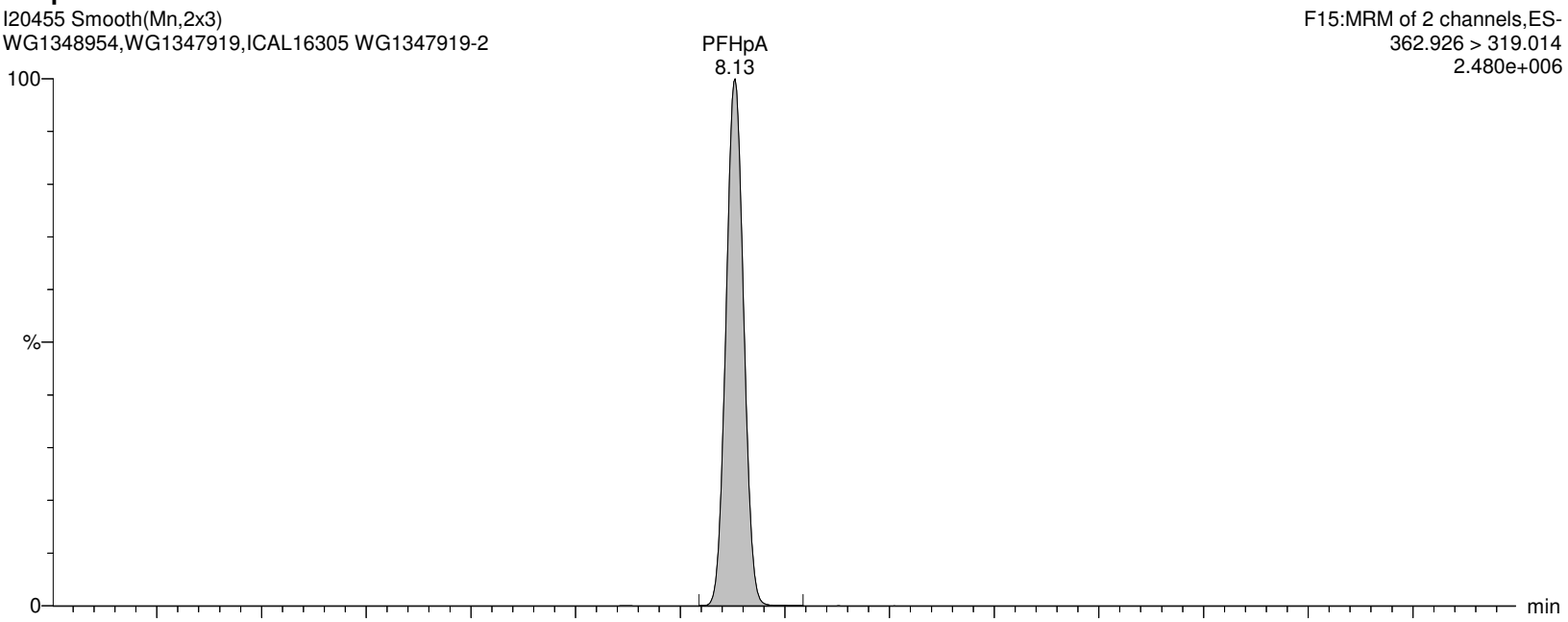

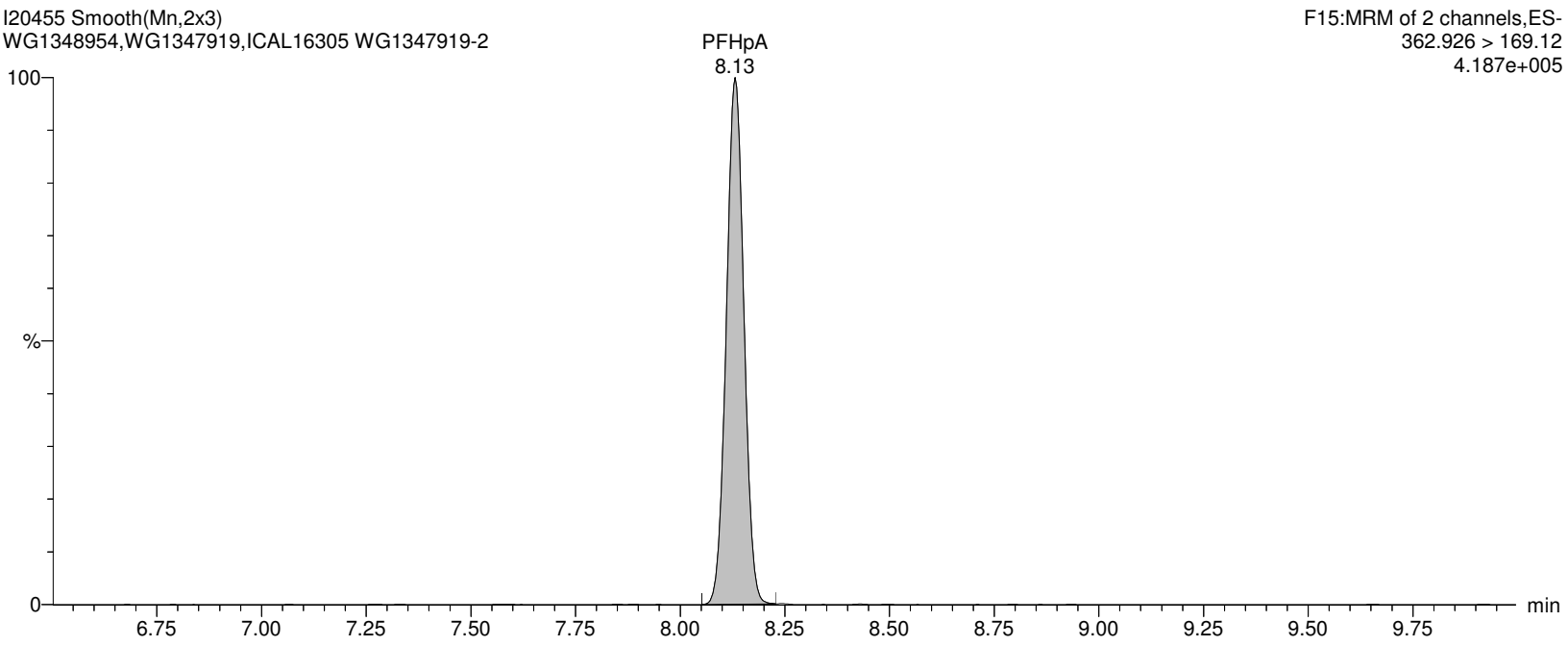

all concentration units in (ng/mL)

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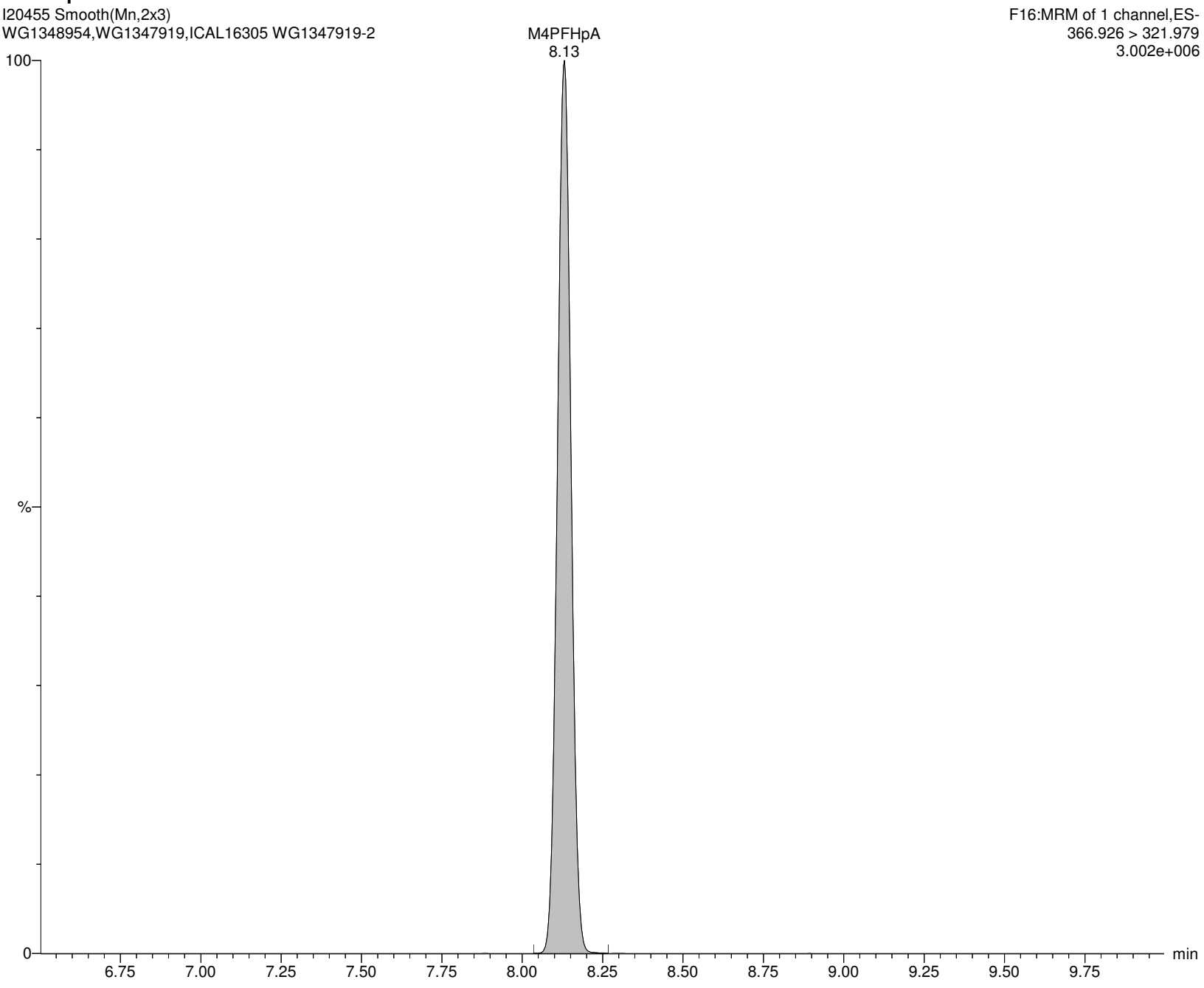

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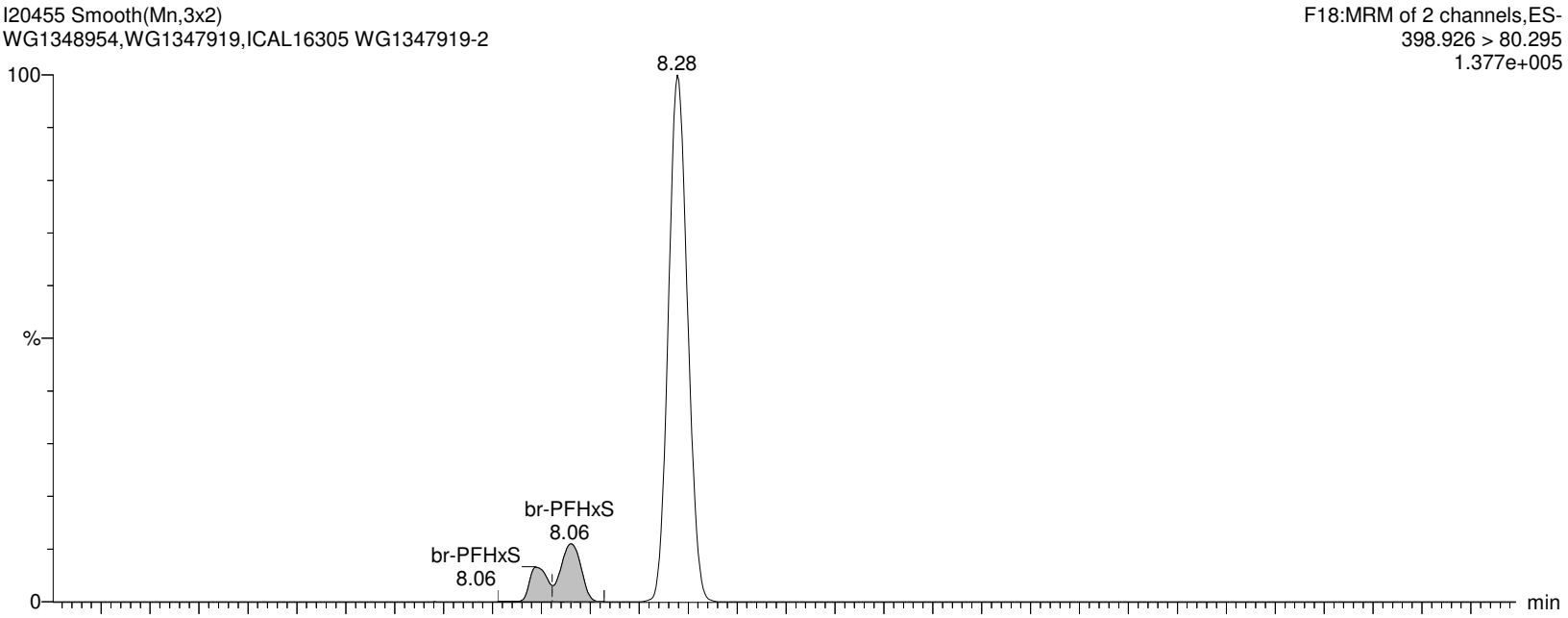

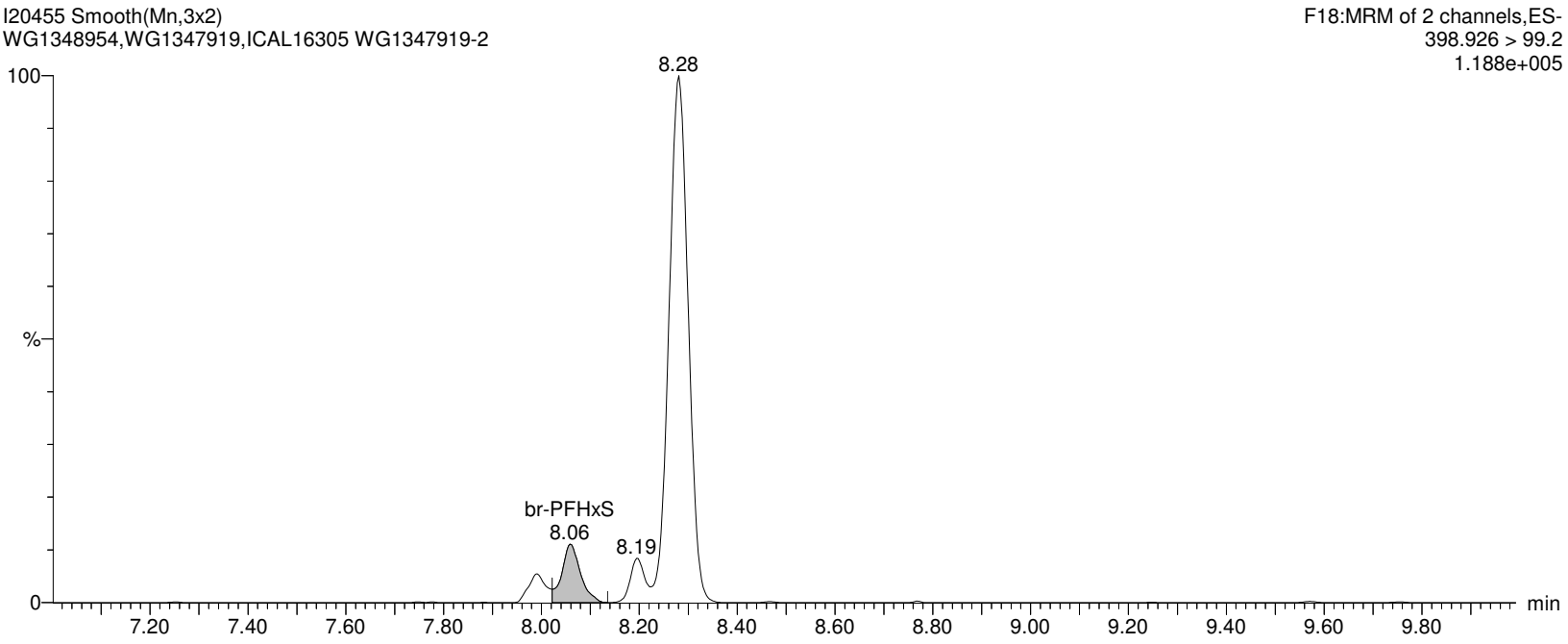

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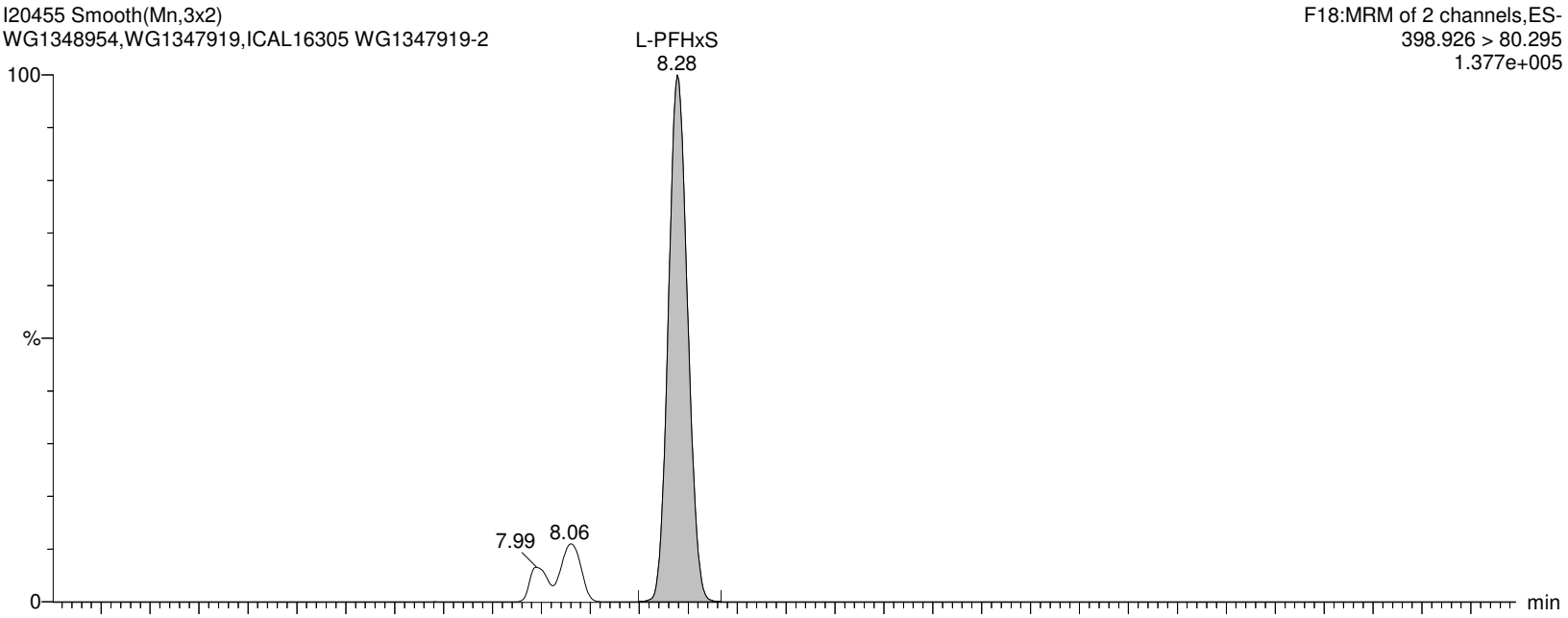

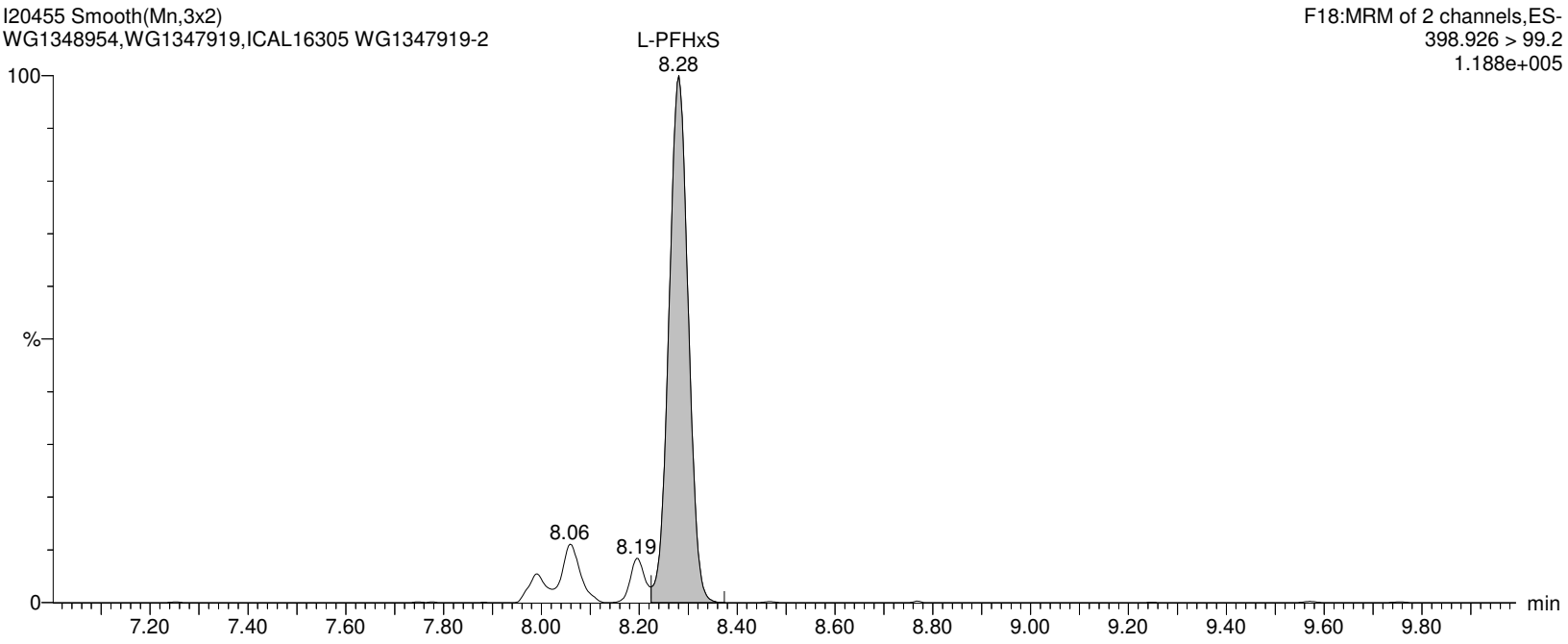

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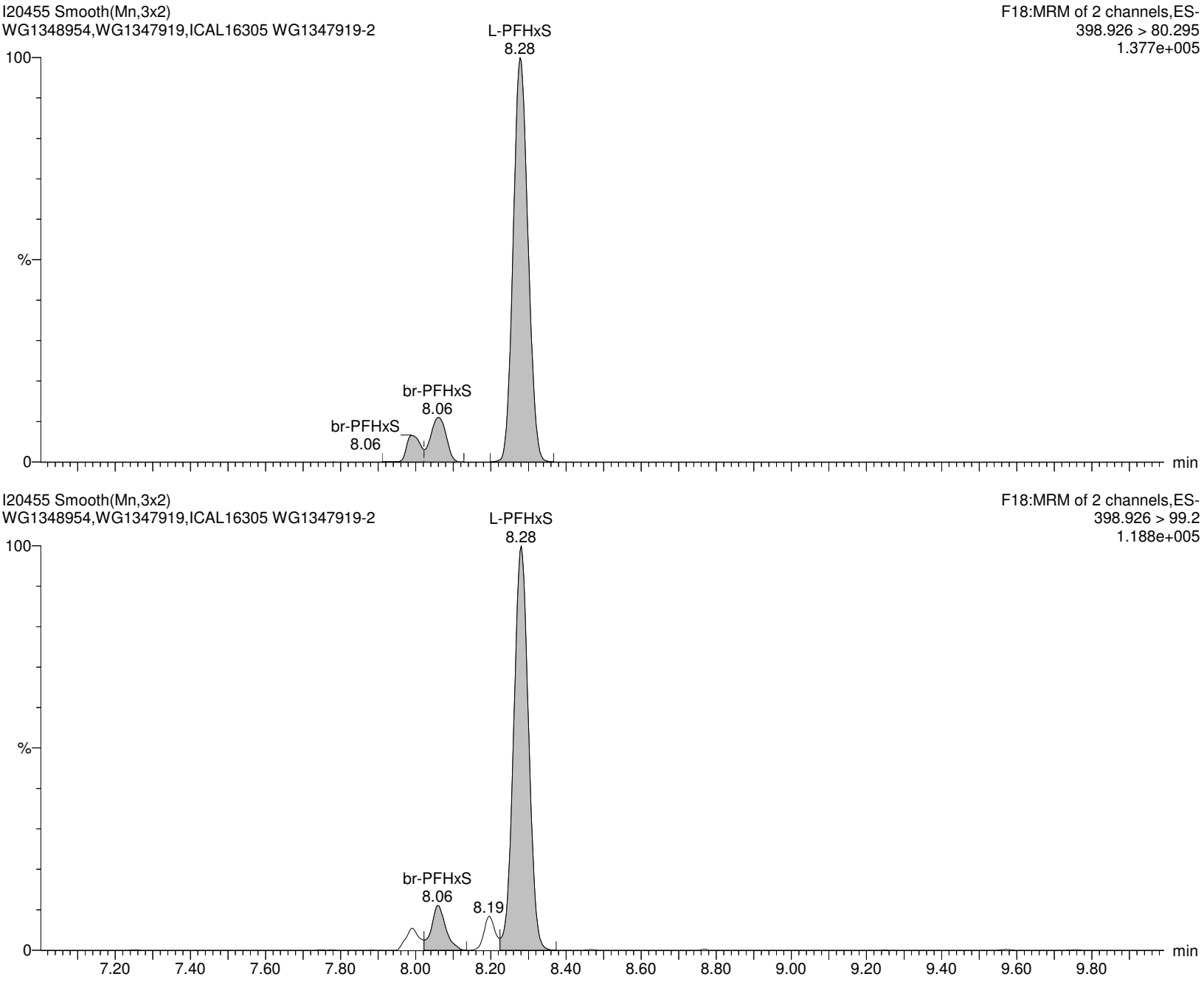

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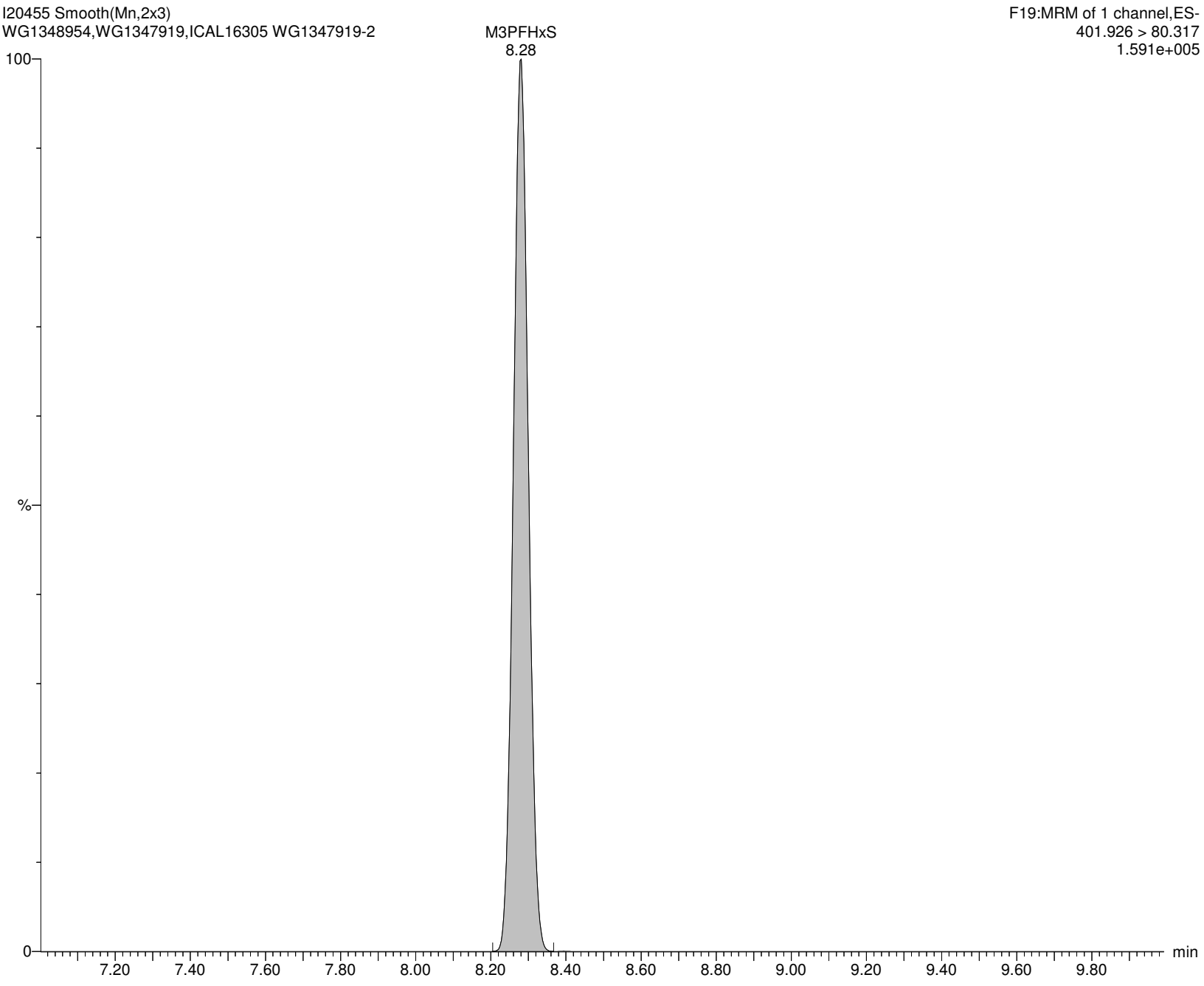

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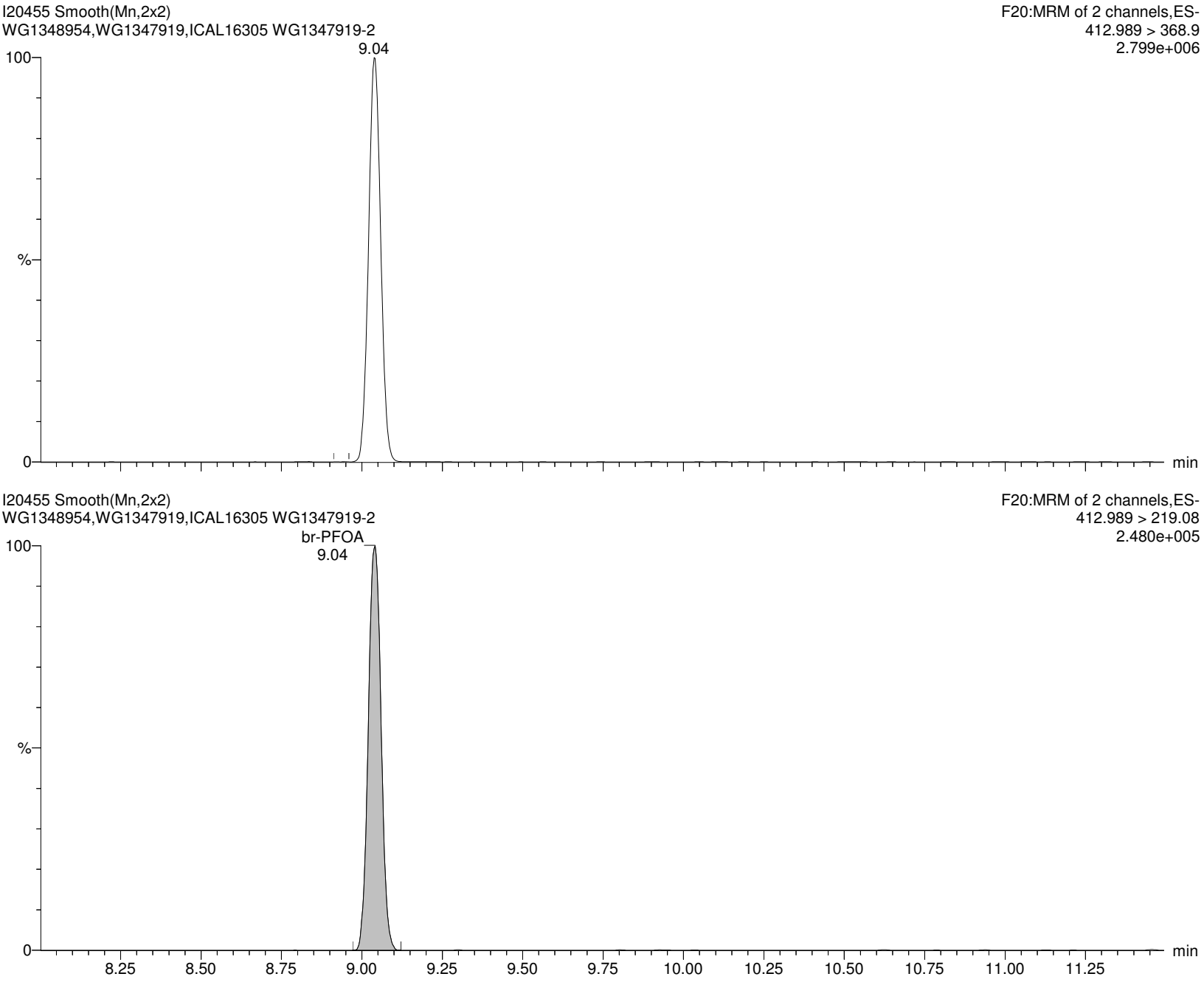

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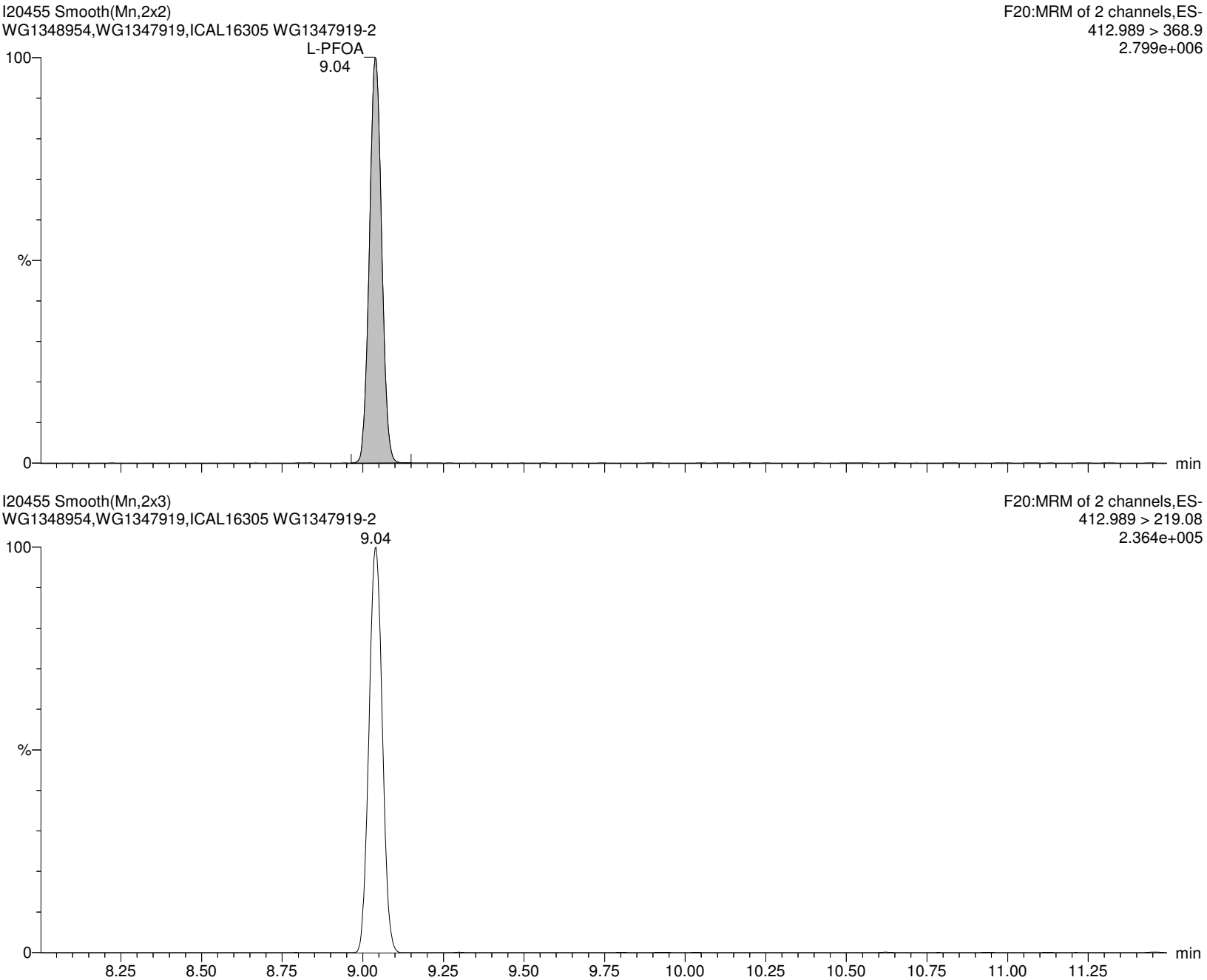

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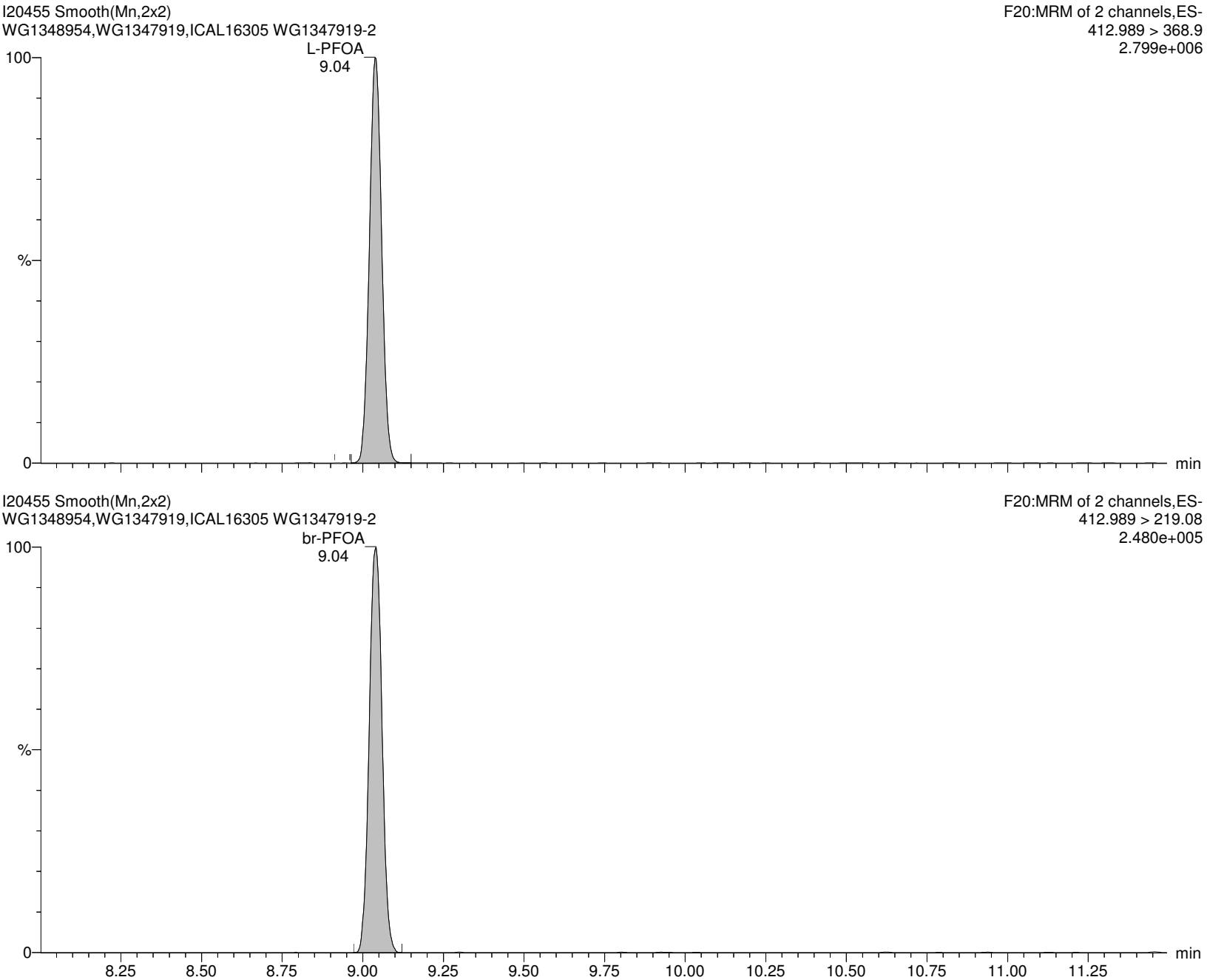

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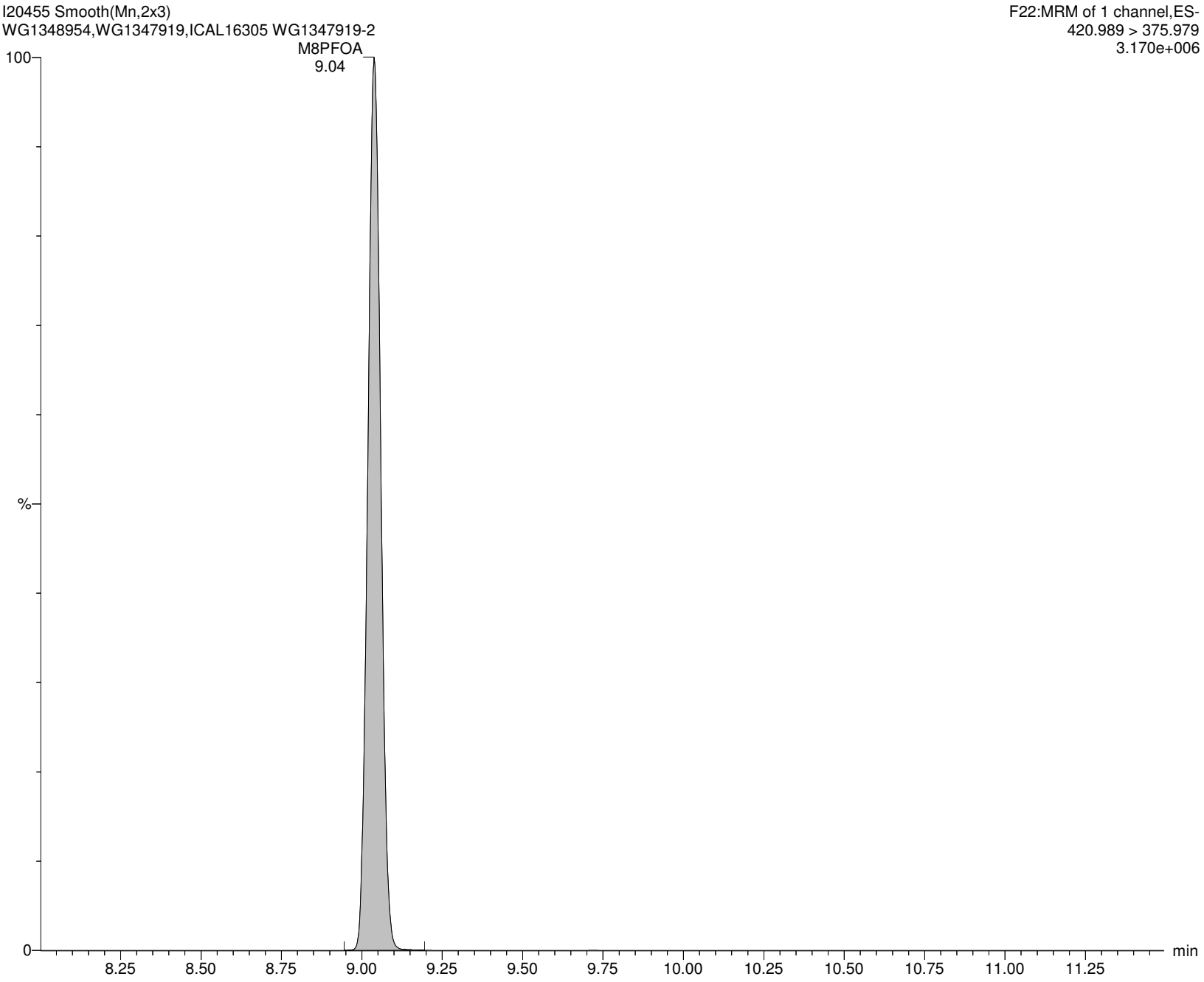

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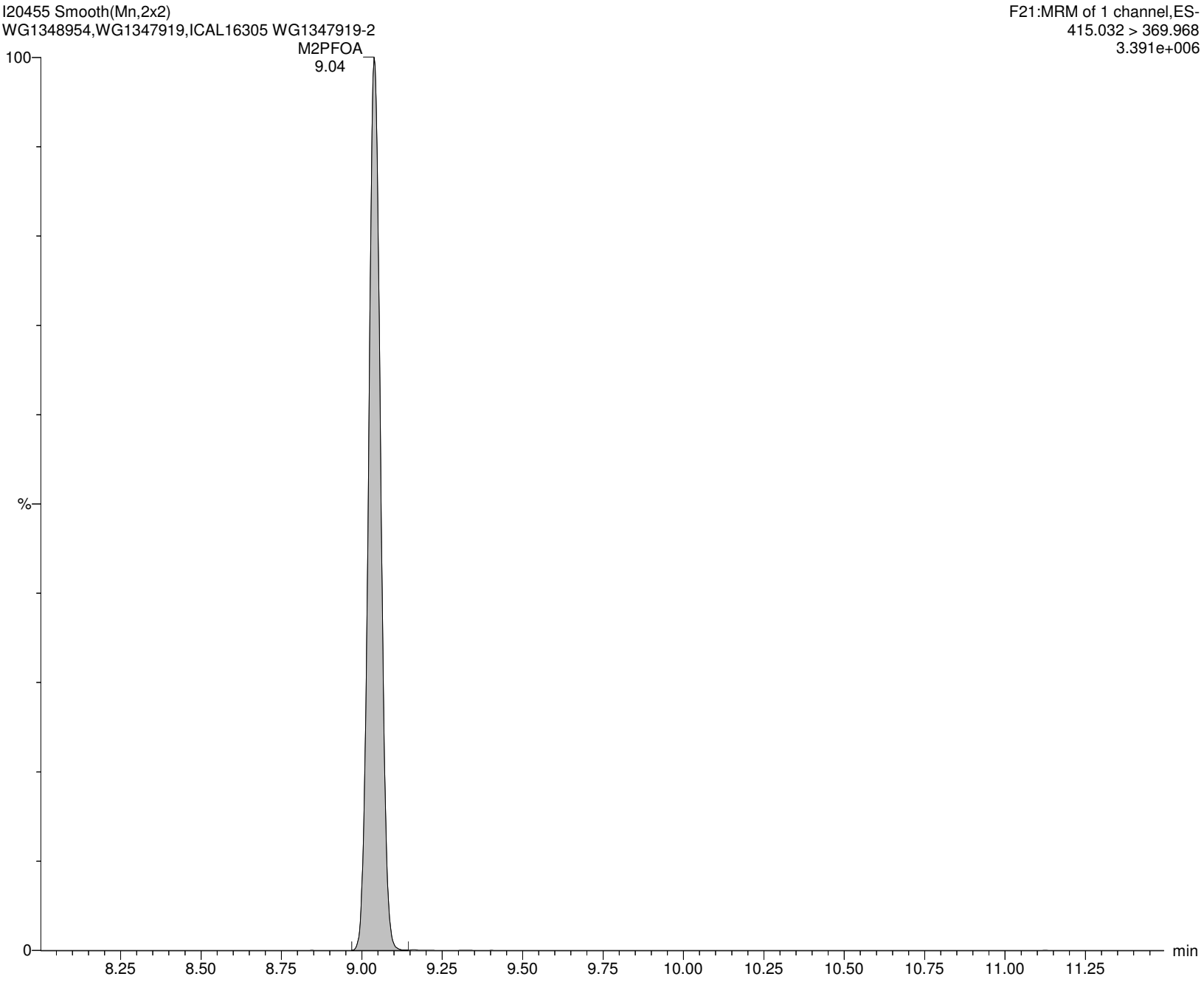

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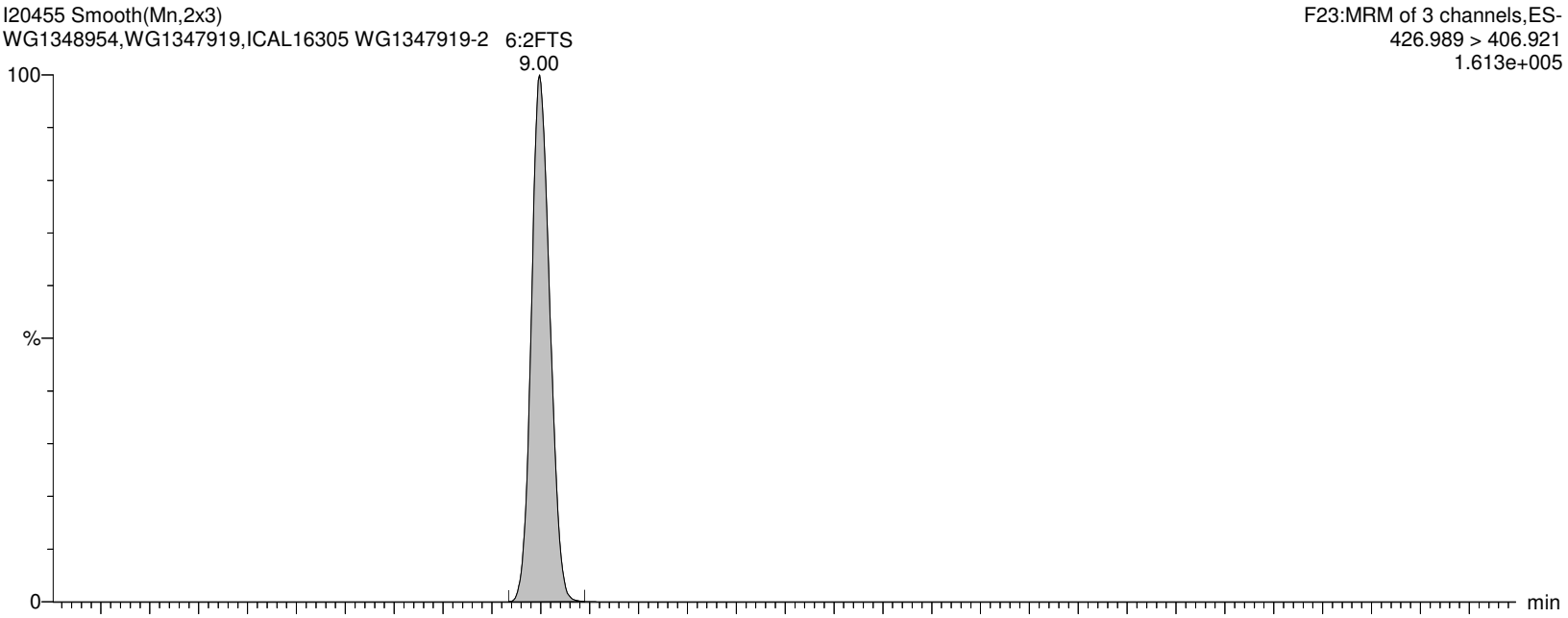

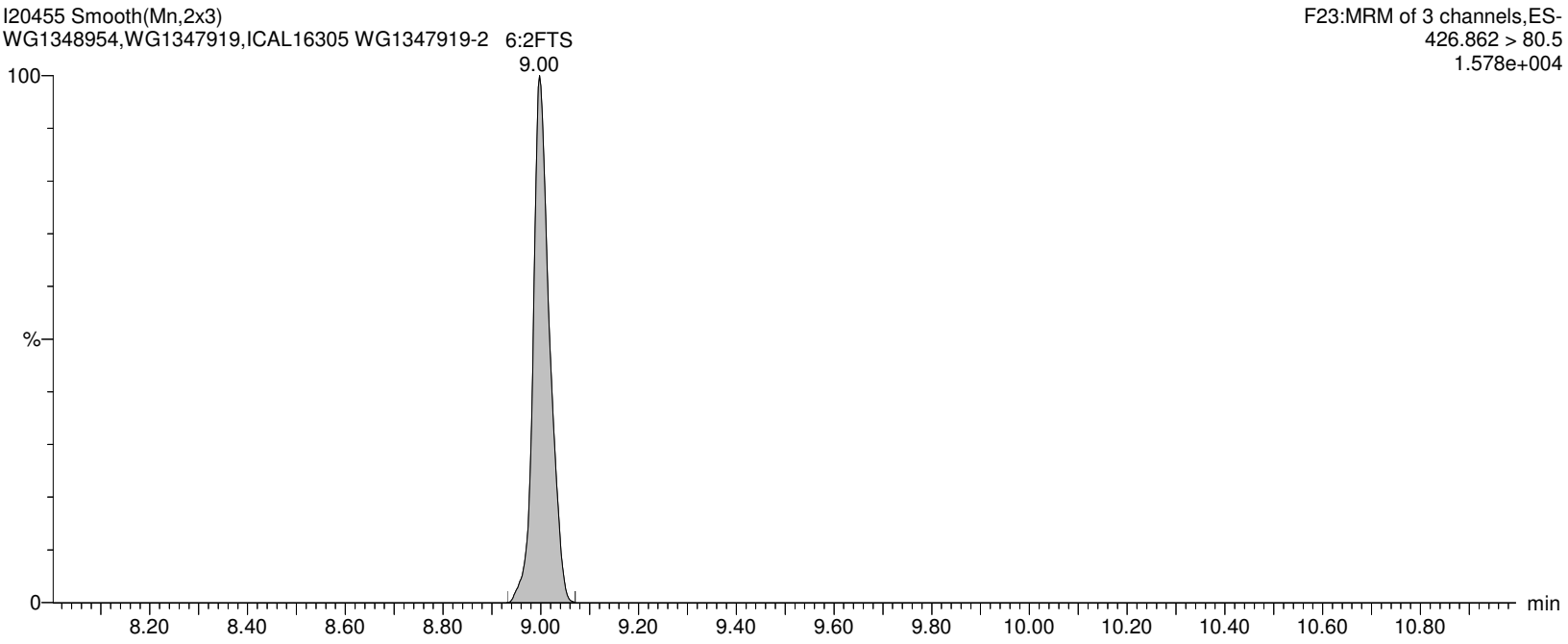

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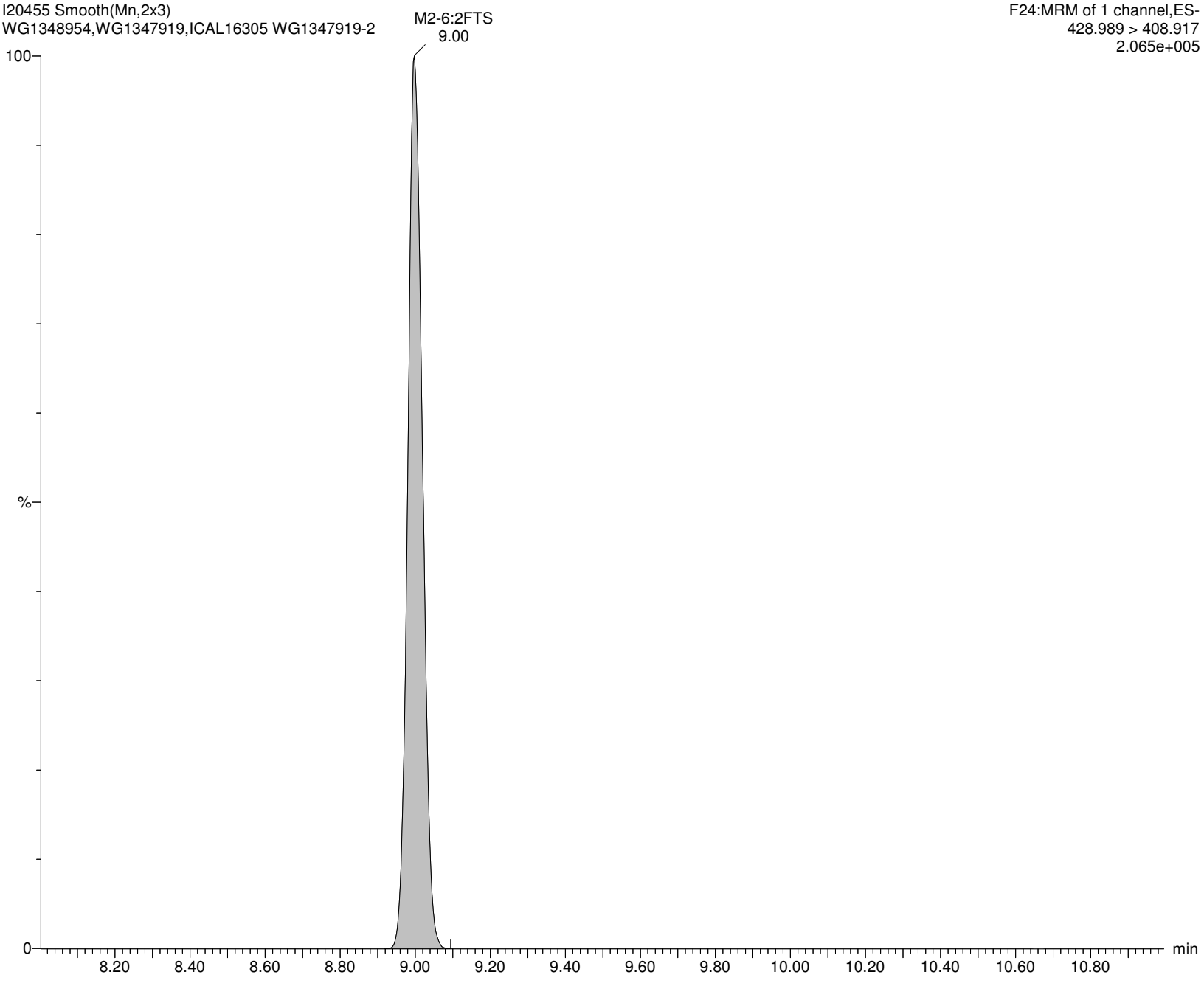

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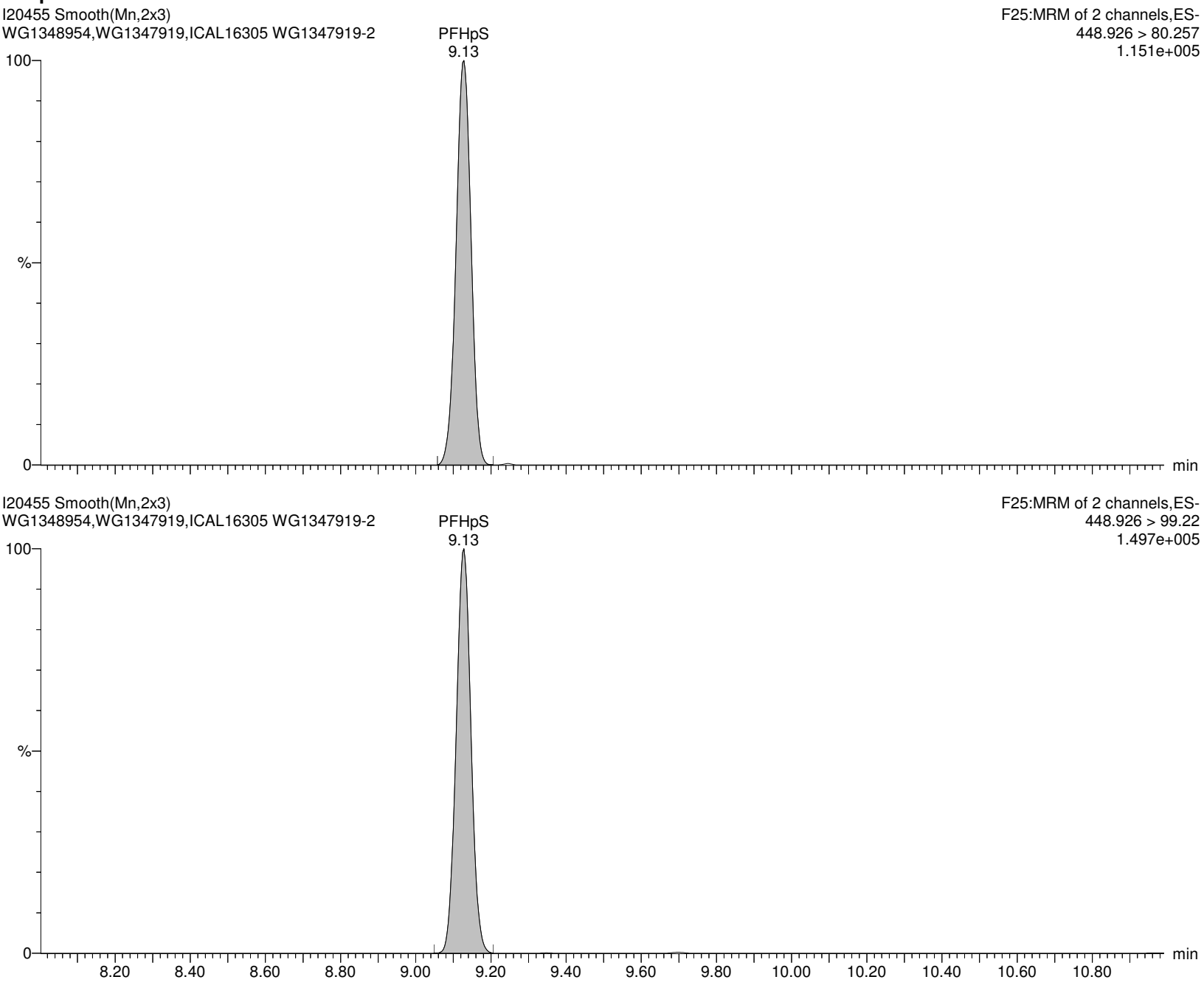

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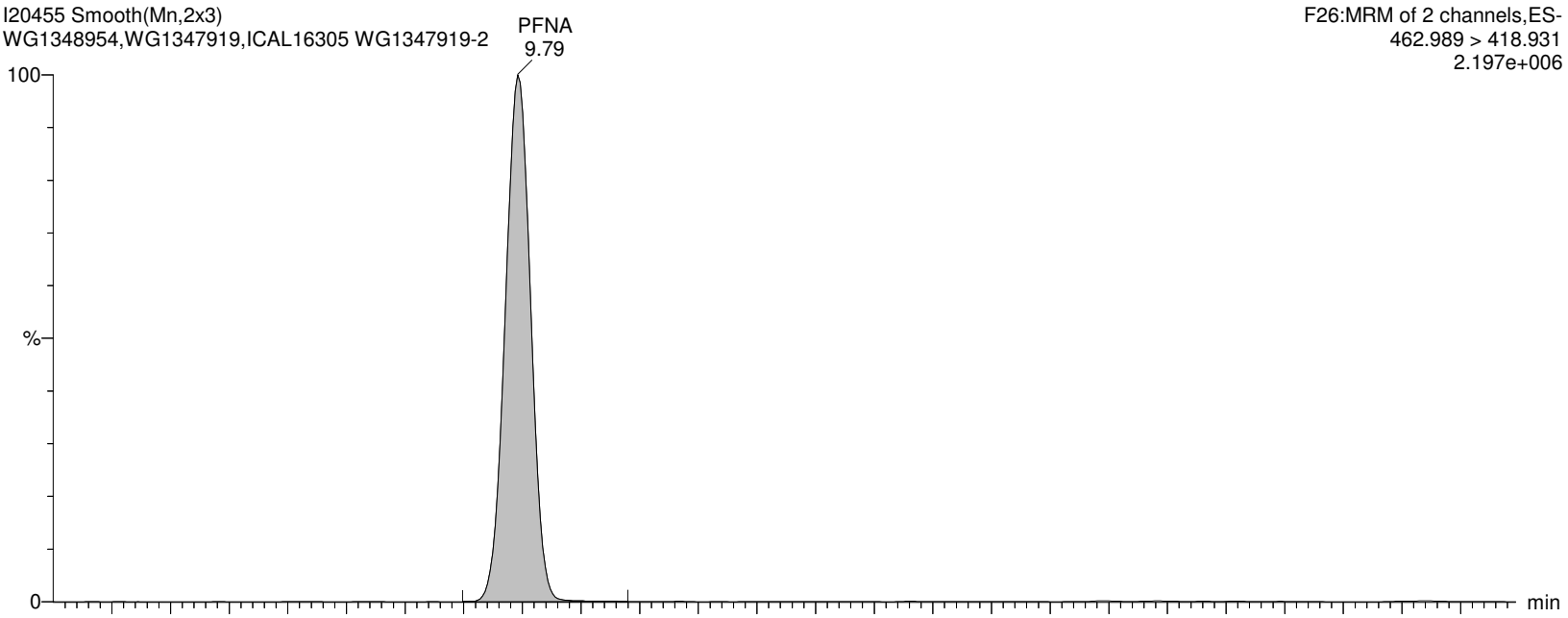

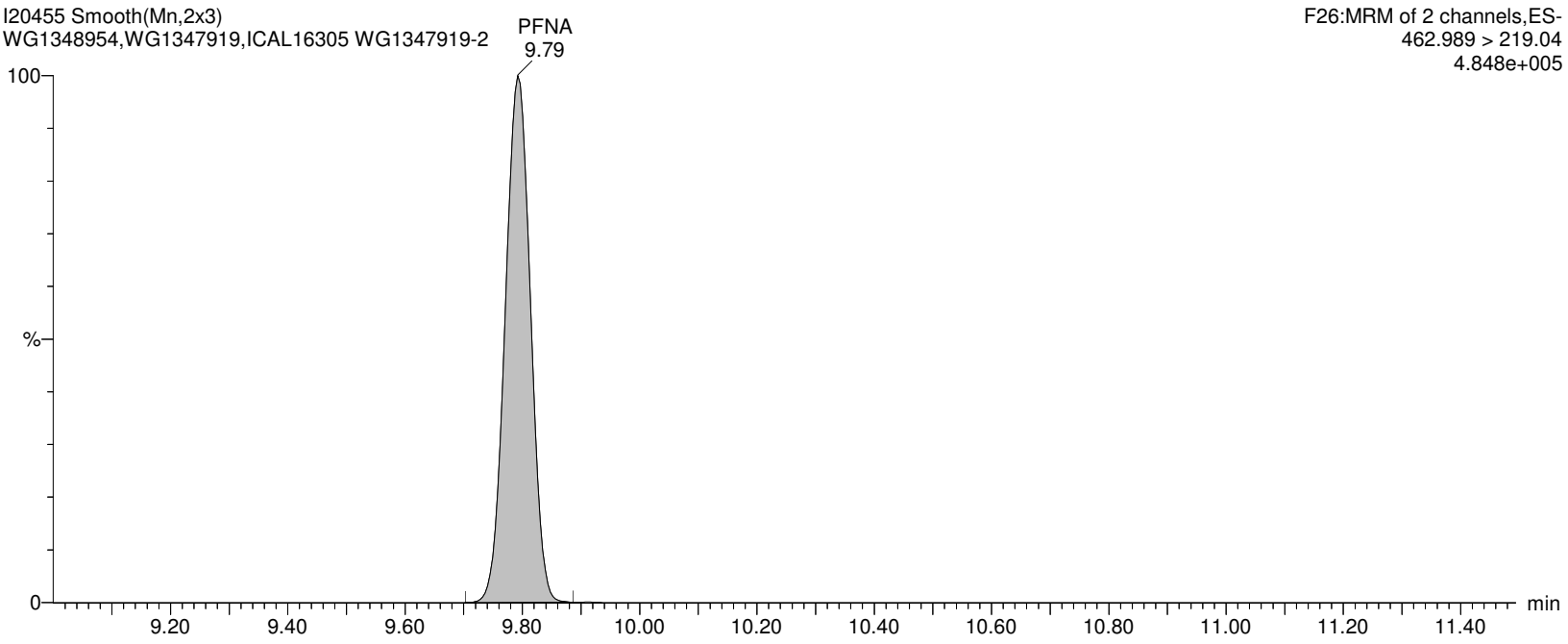

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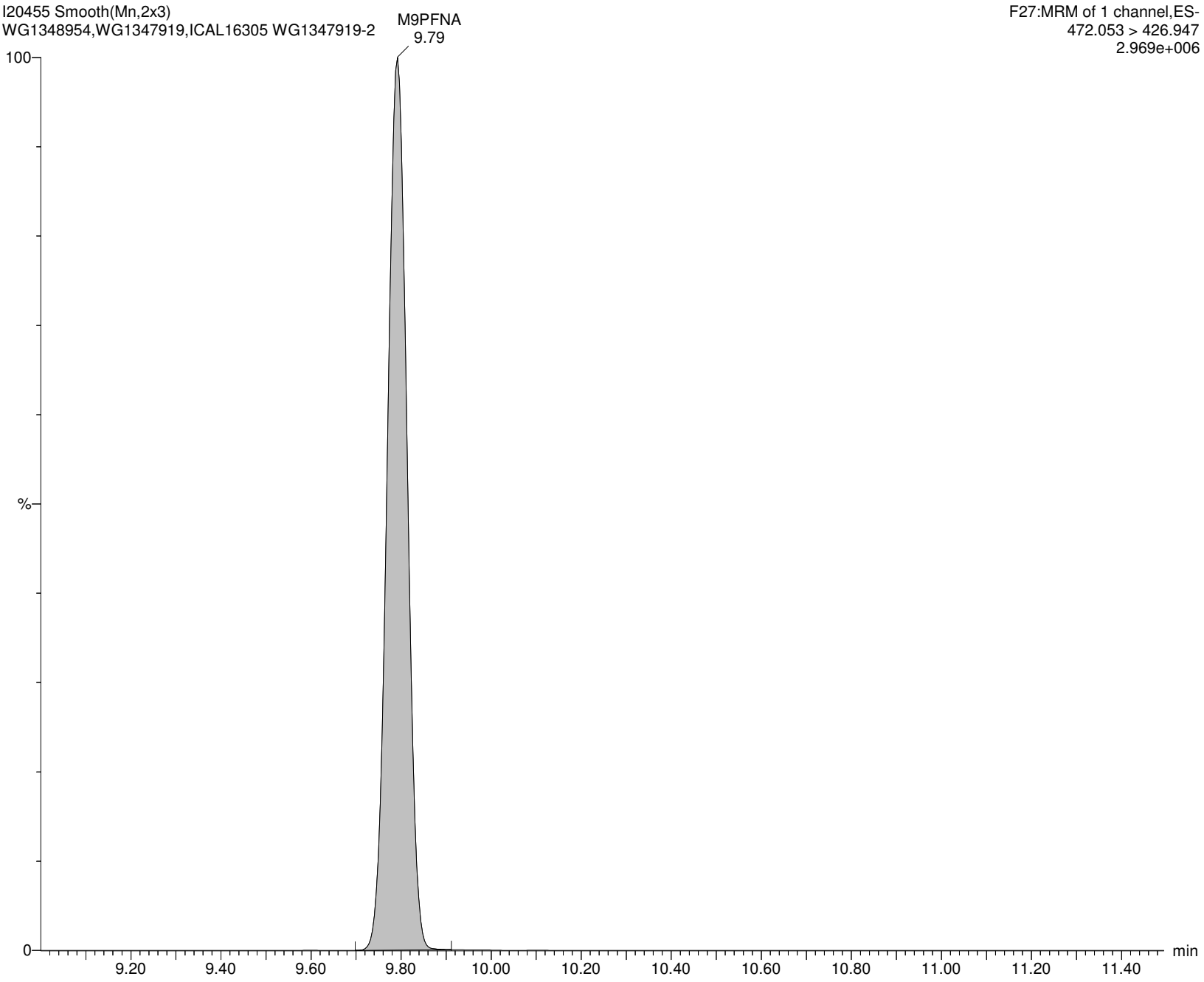

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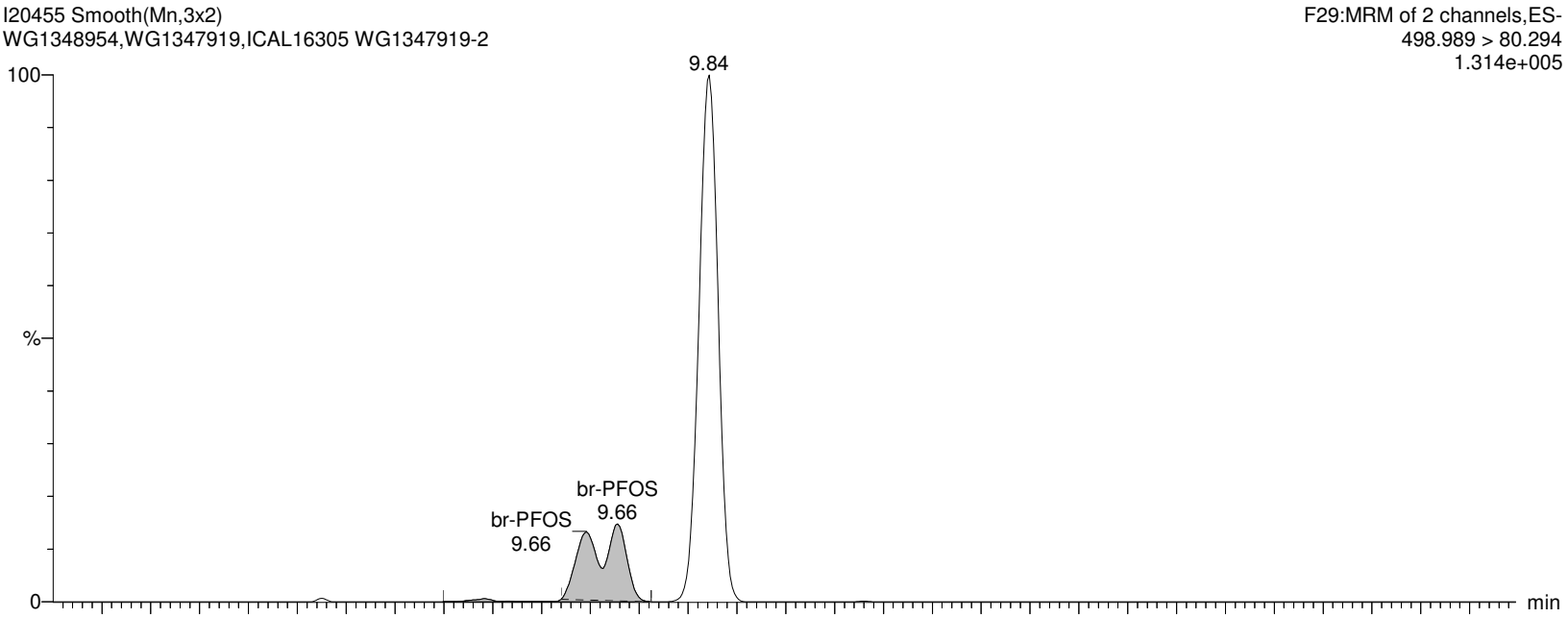

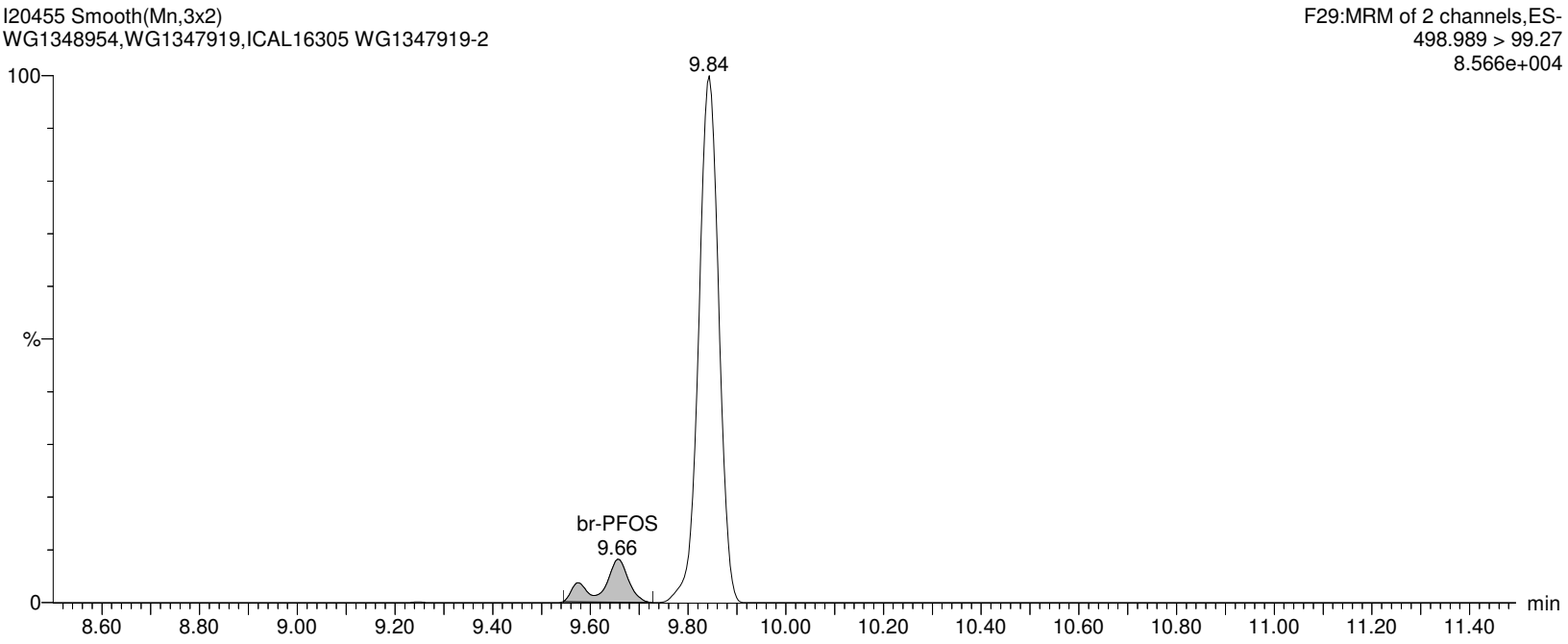

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:40 Eastern Daylight Time

Name: I20455
ID: WG1347919-2
Date: 11-Mar-2020
Time: 02:54:13
Description: WG1348954,WG1347919,ICAL16305
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Vial: 2:A,8
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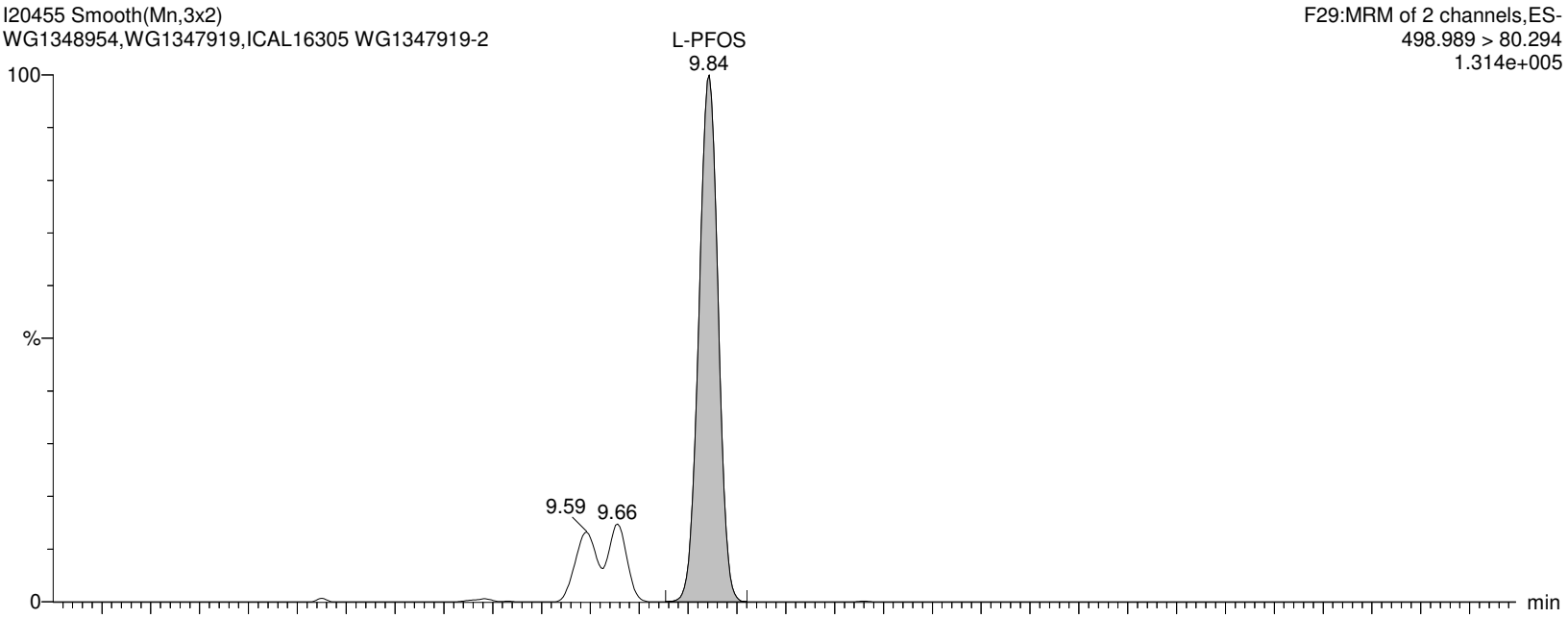

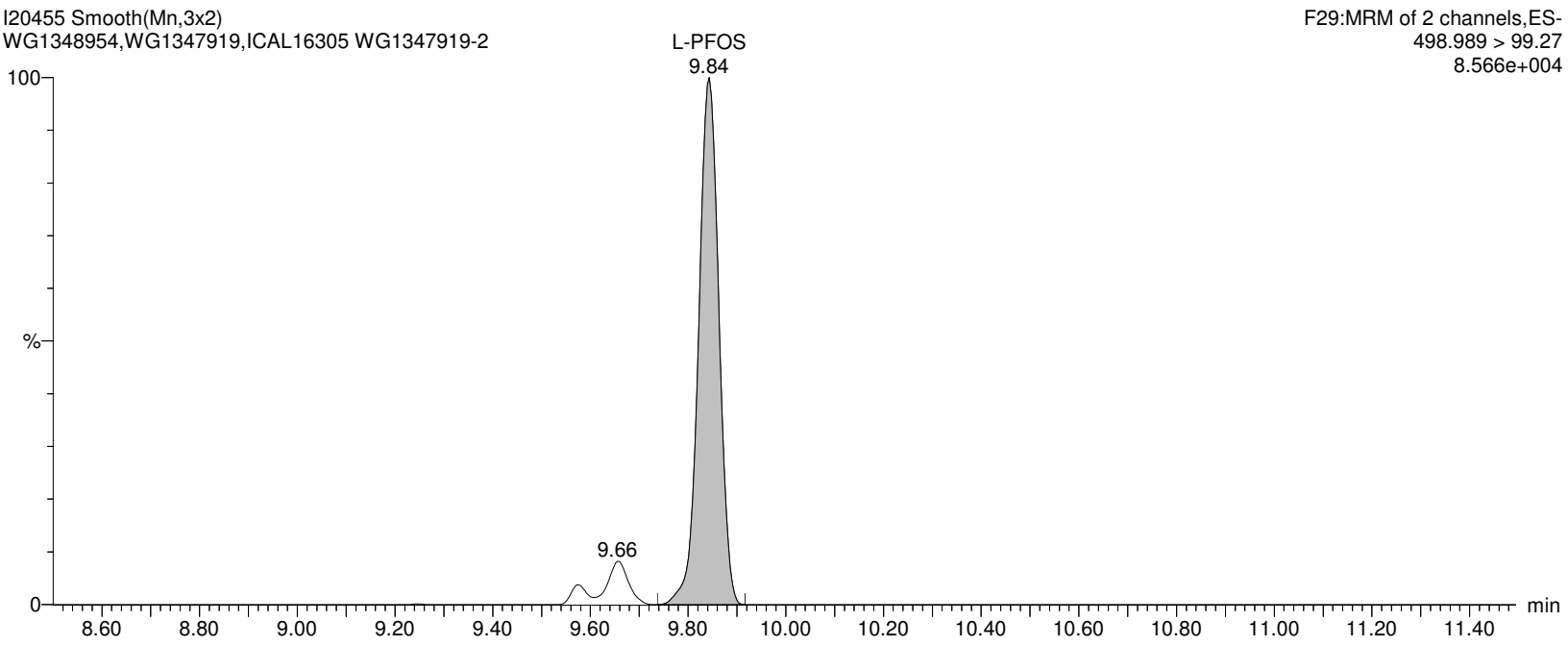

all concentration units in (ng/mL)

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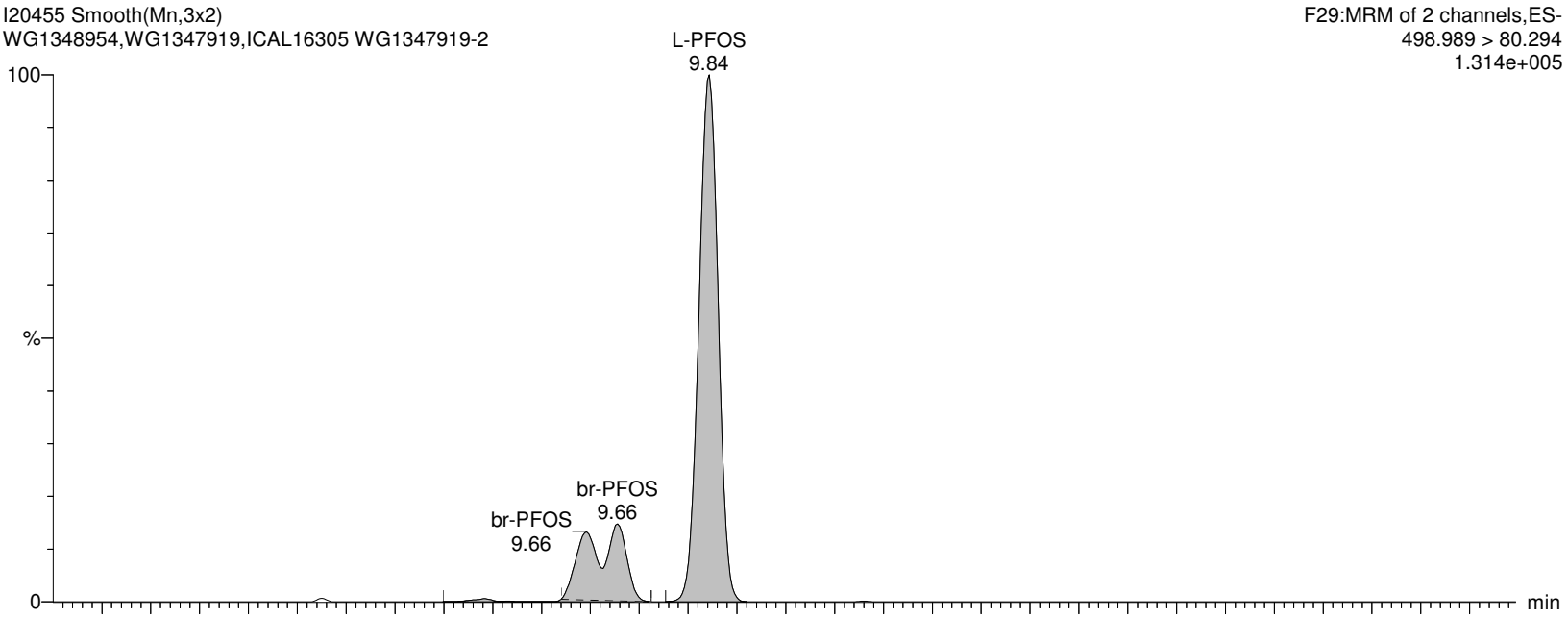

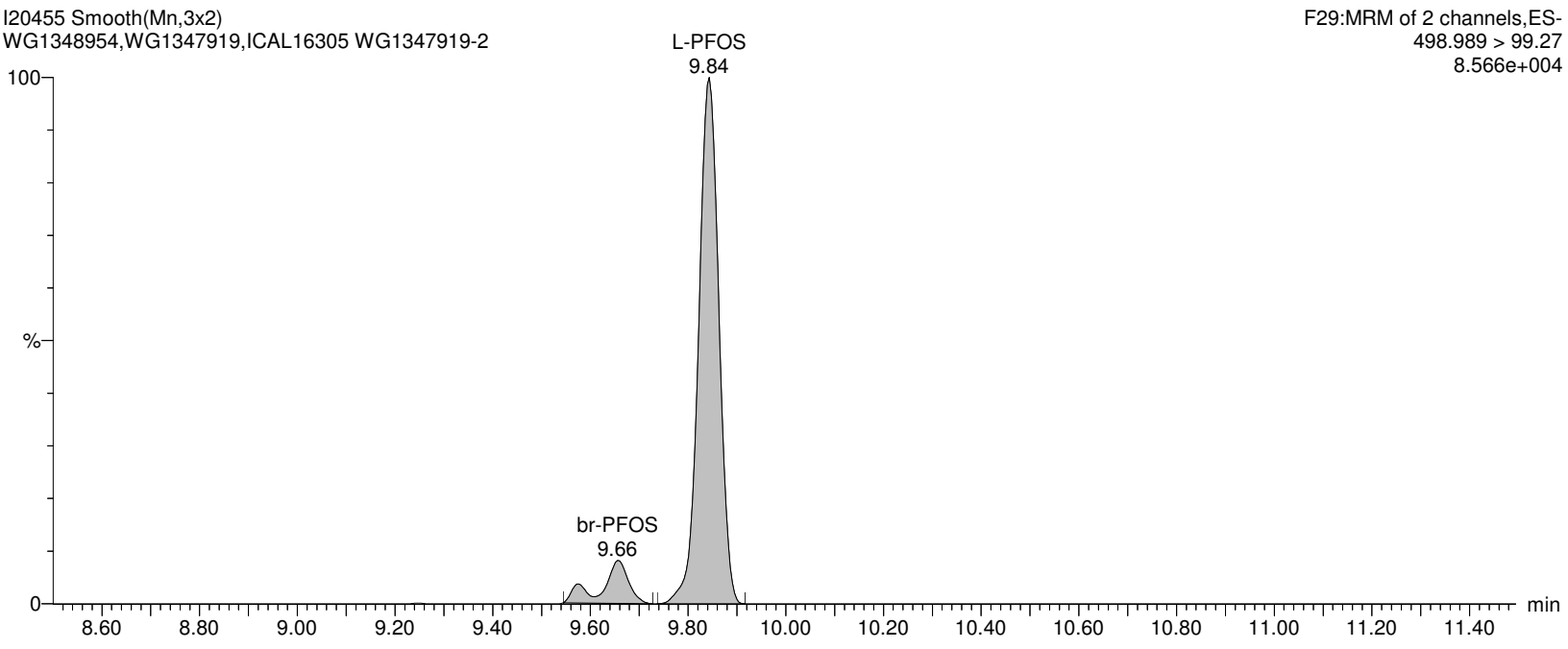

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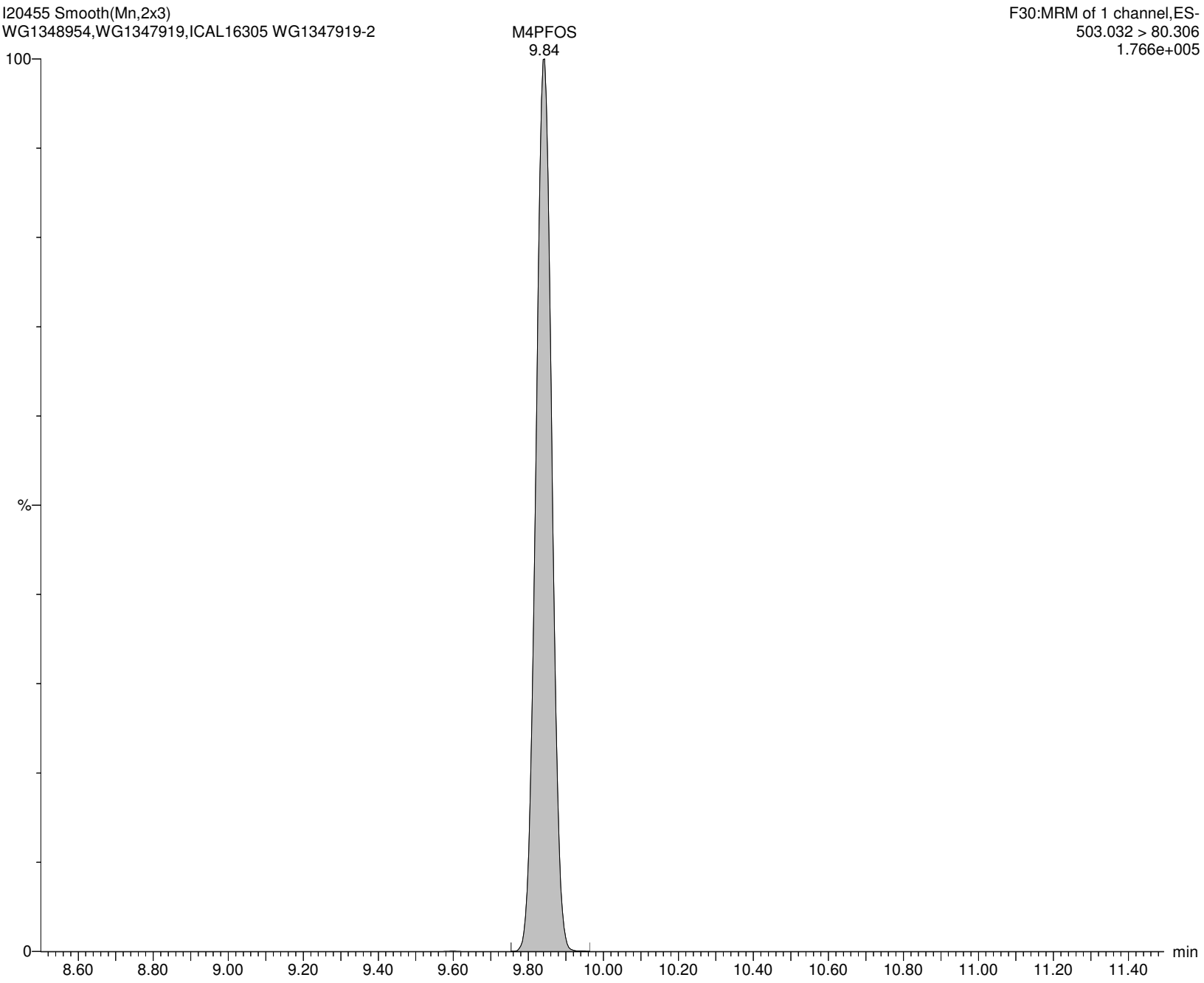

all concentration units in (ng/mL)

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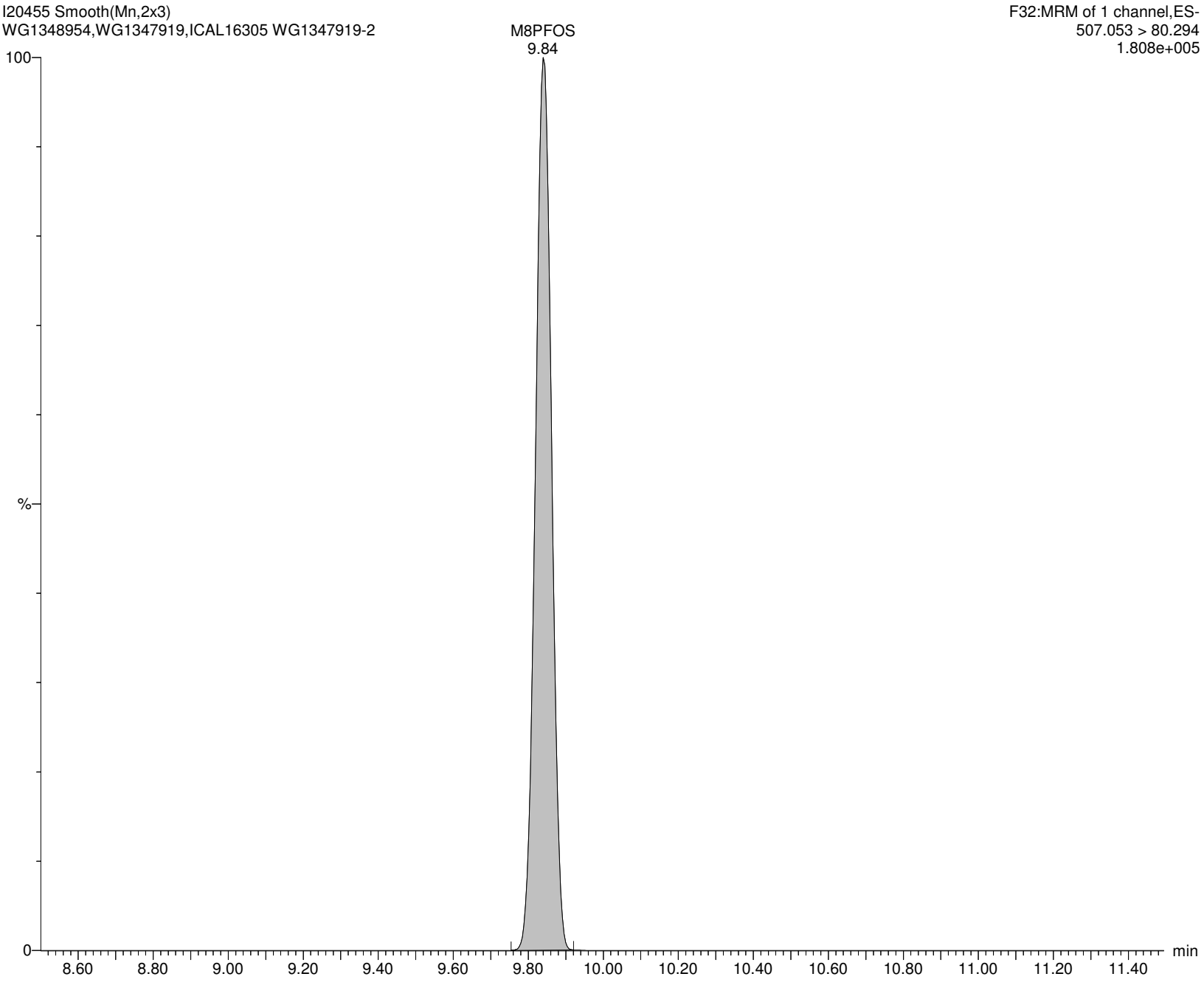

all concentration units in (ng/mL)

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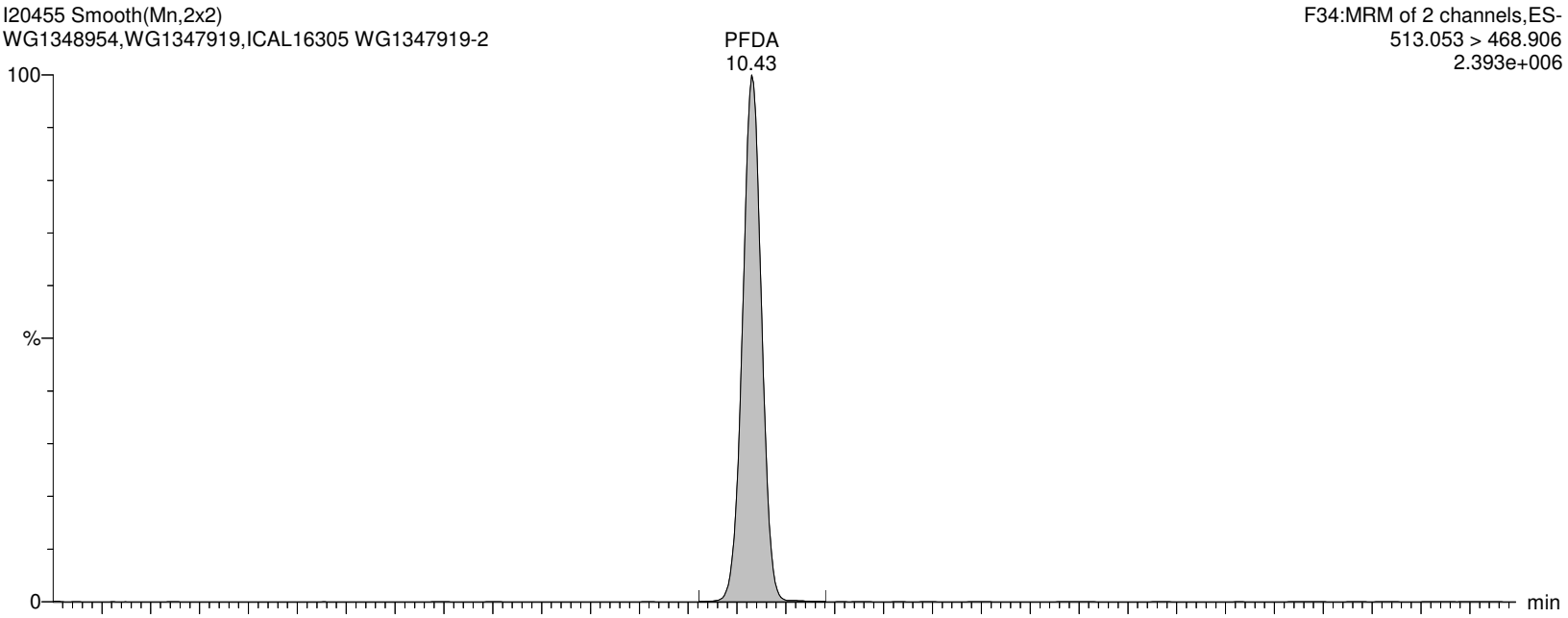

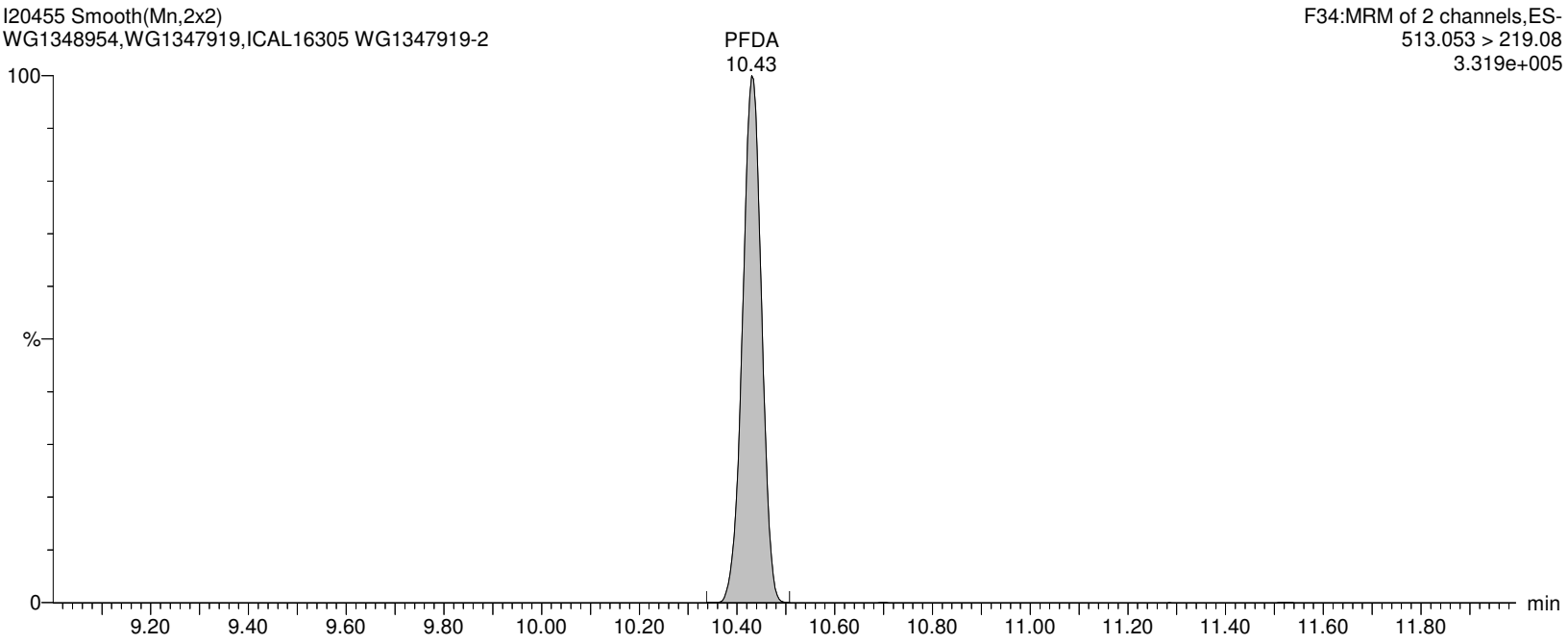

all concentration units in (ng/mL)

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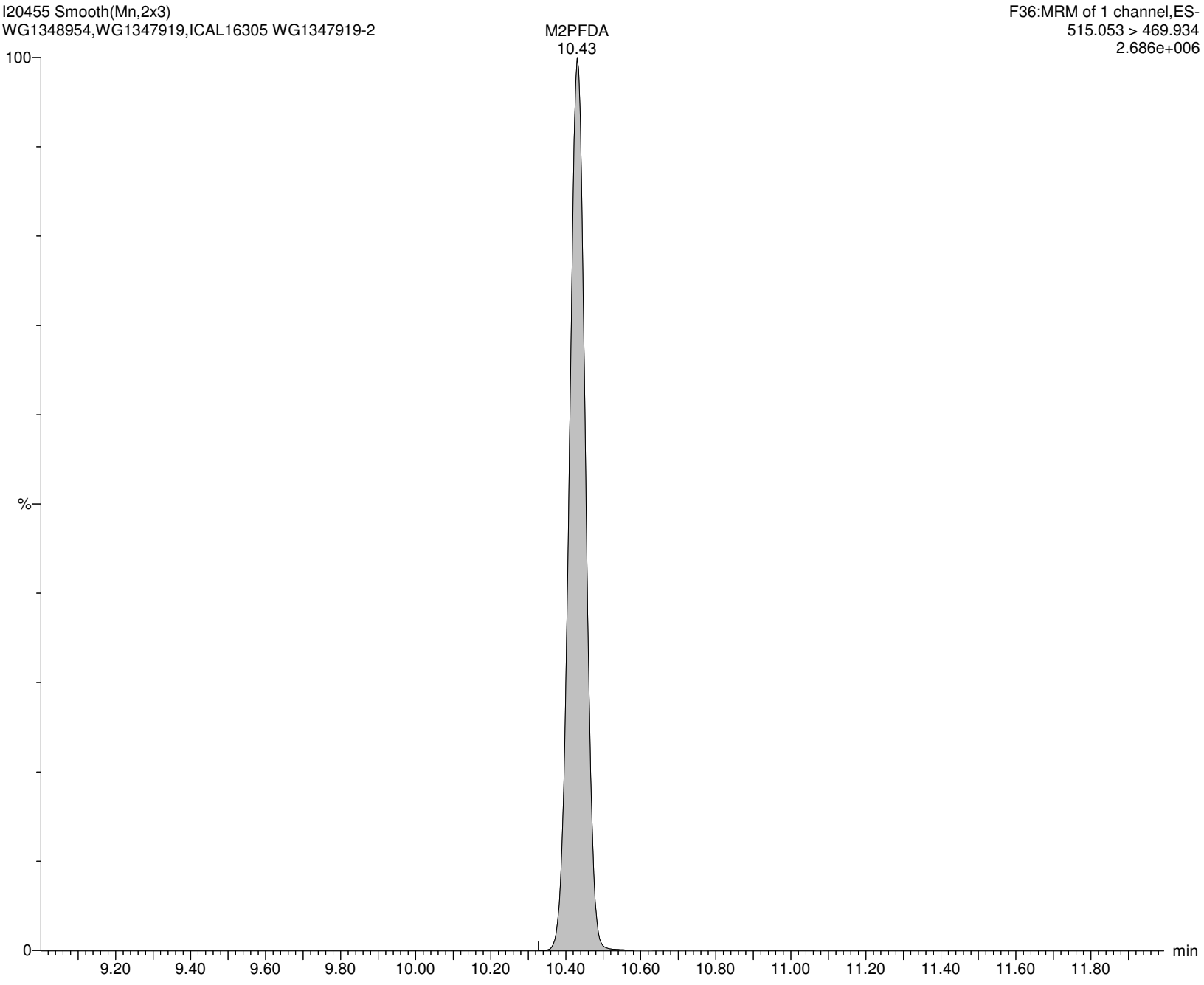

all concentration units in (ng/mL)

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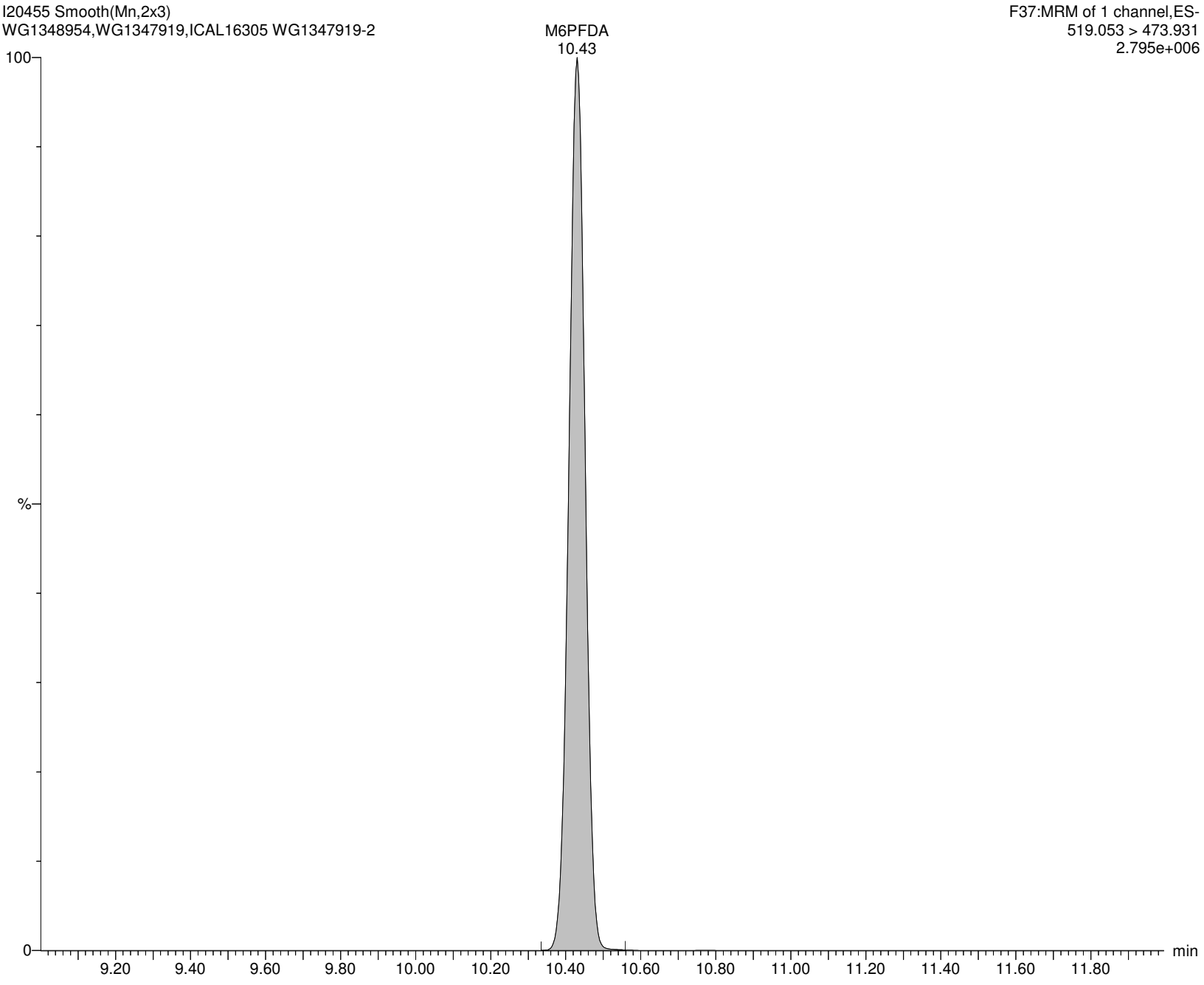

all concentration units in (ng/mL)

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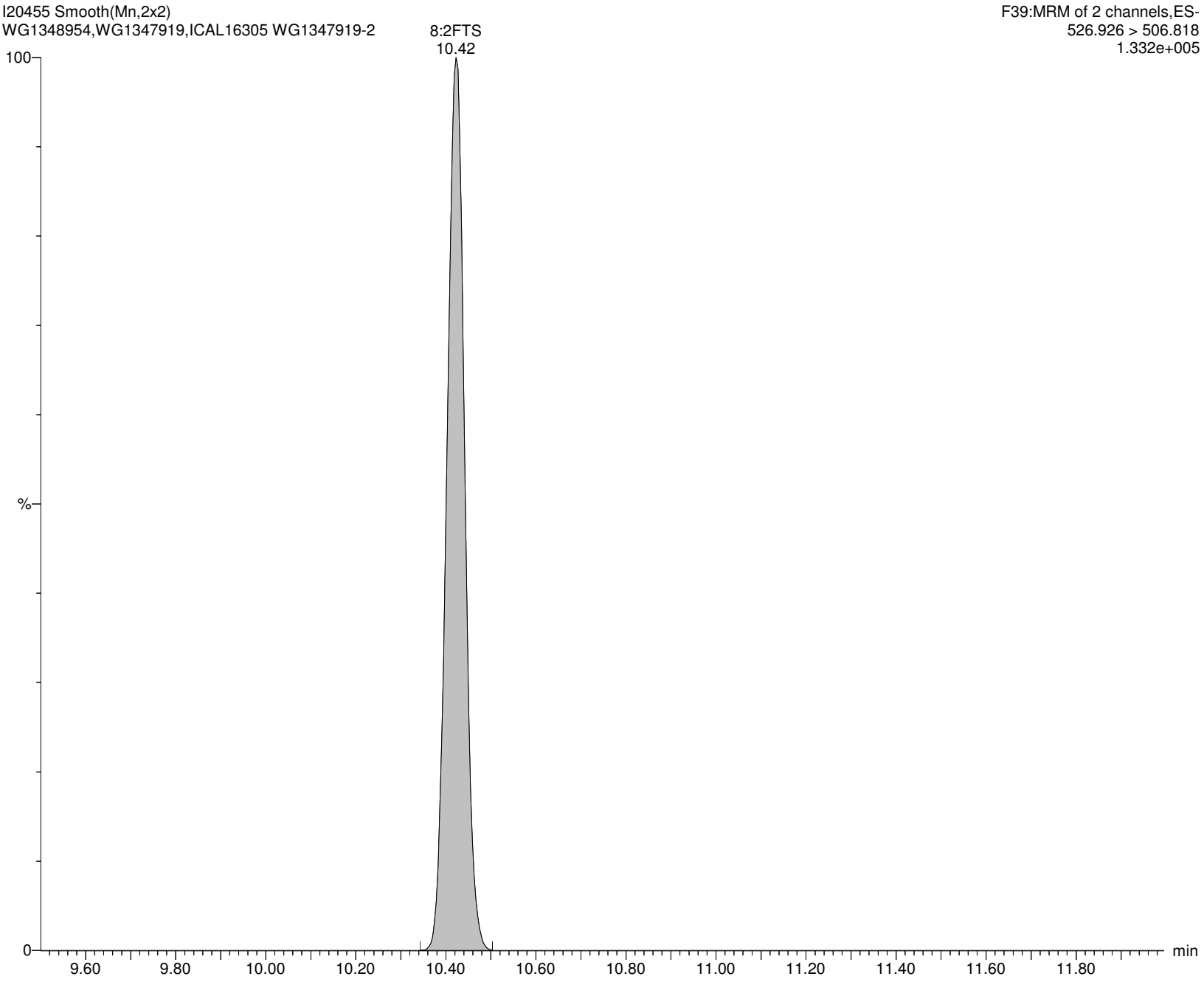

all concentration units in (ng/mL)

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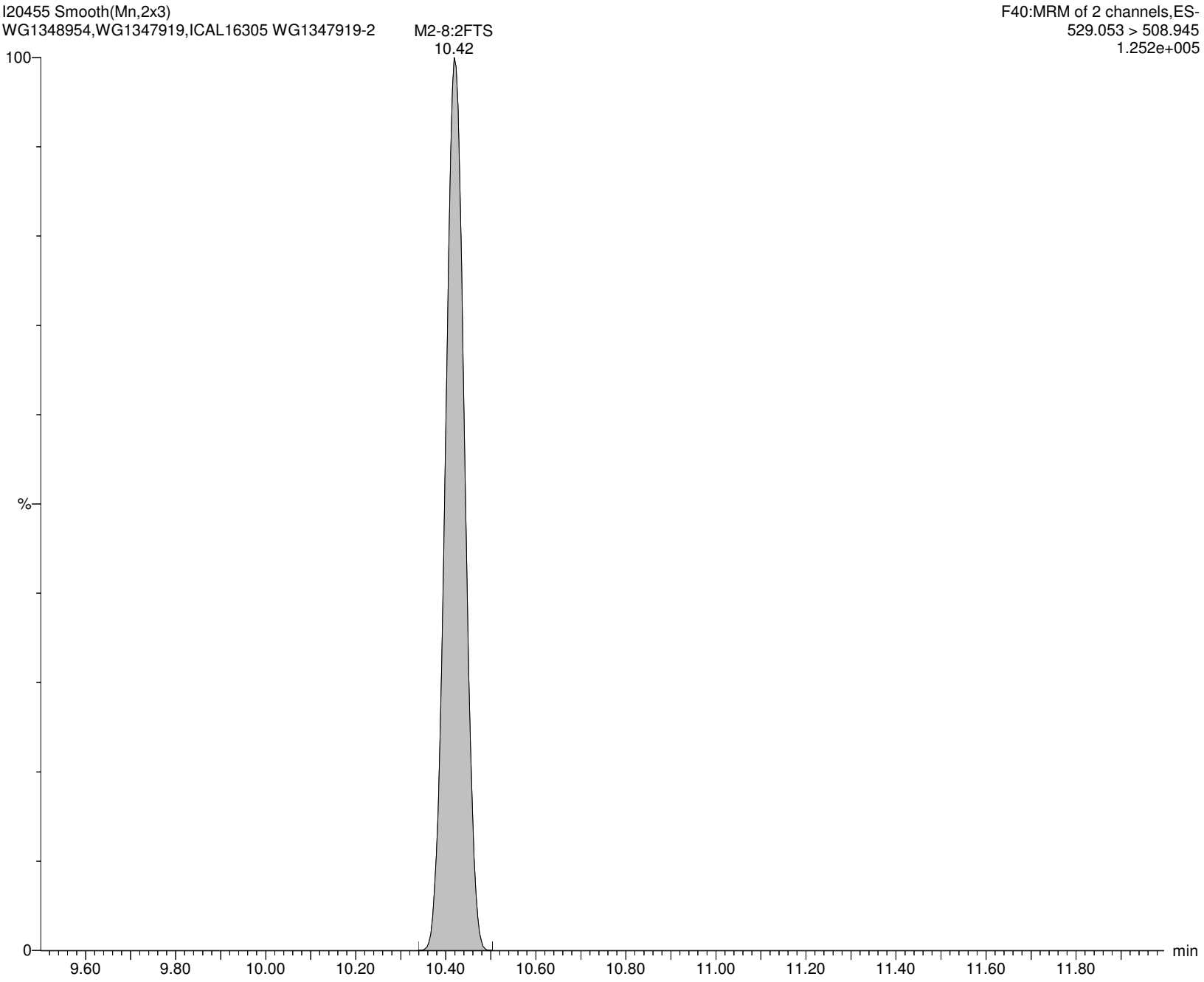

all concentration units in (ng/mL)

Alpha Analytical Inc.
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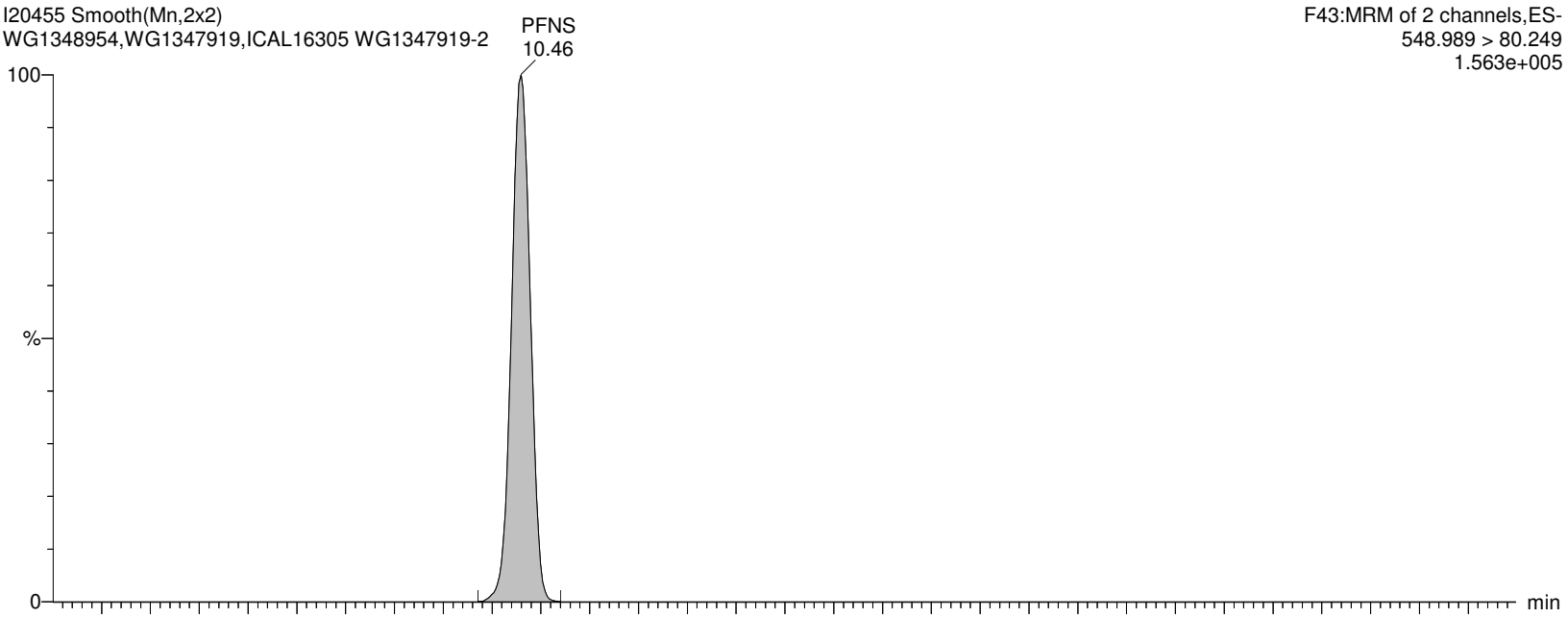

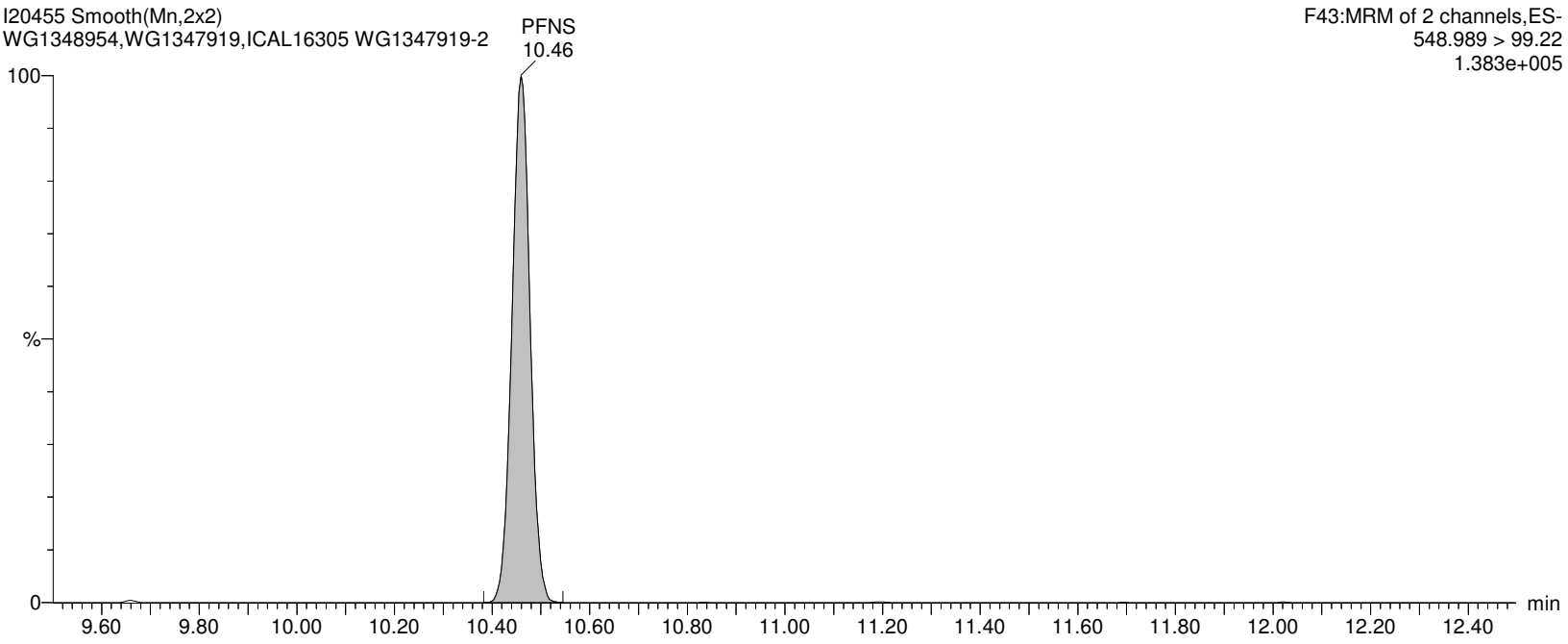

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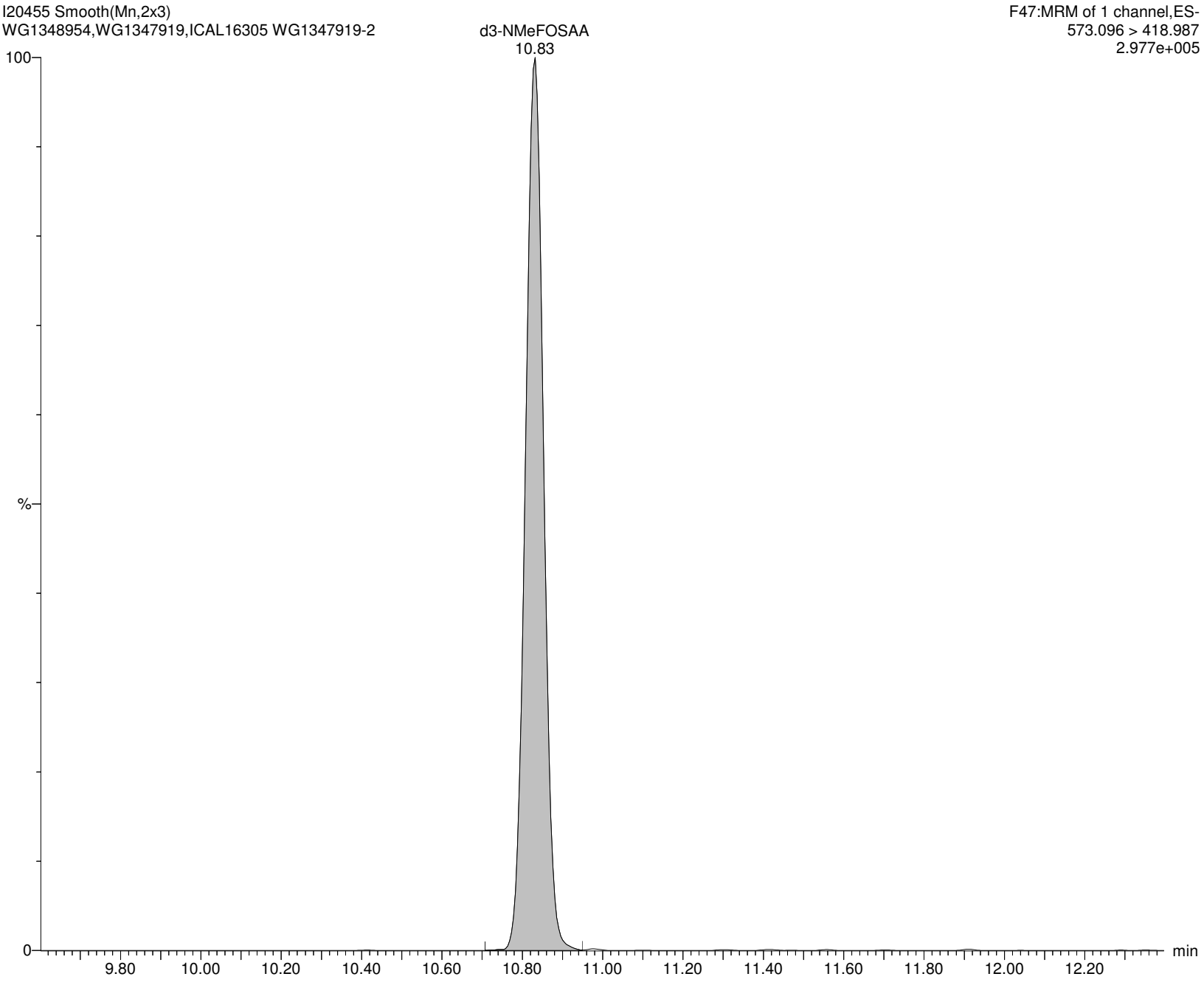

all concentration units in (ng/mL)

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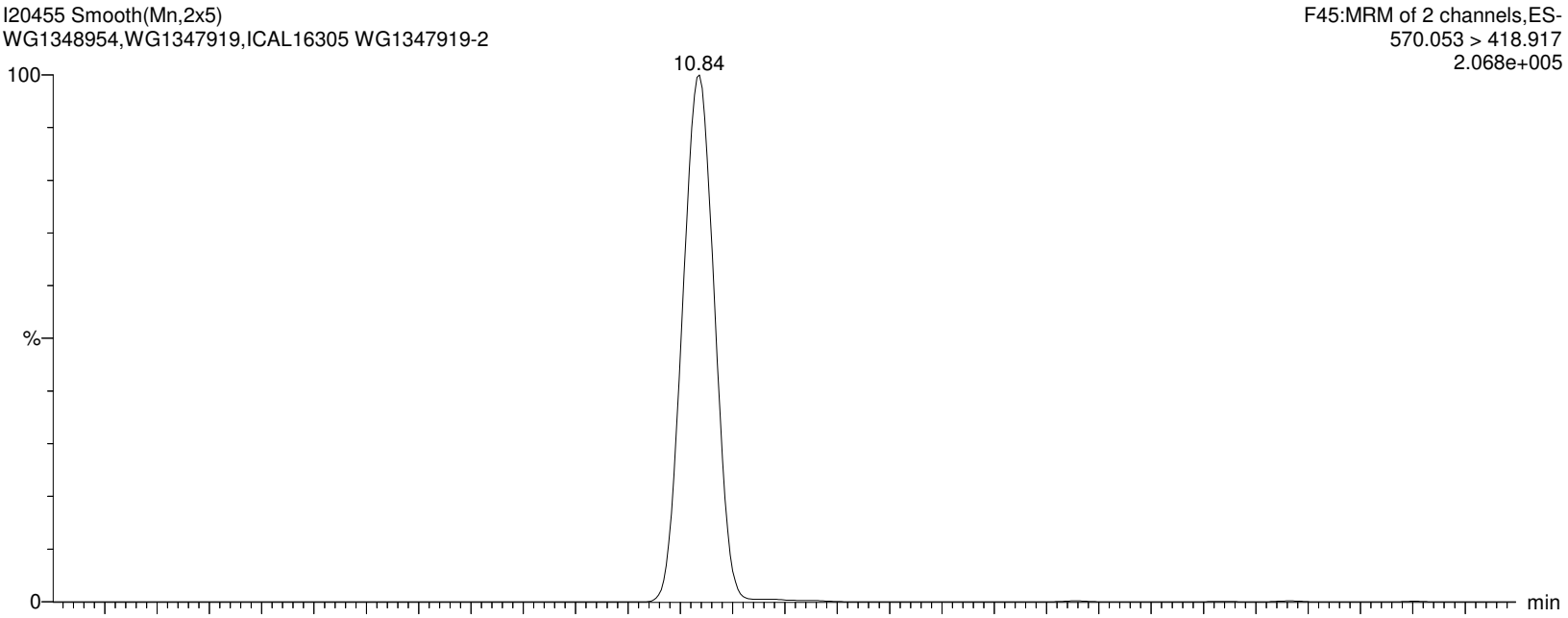

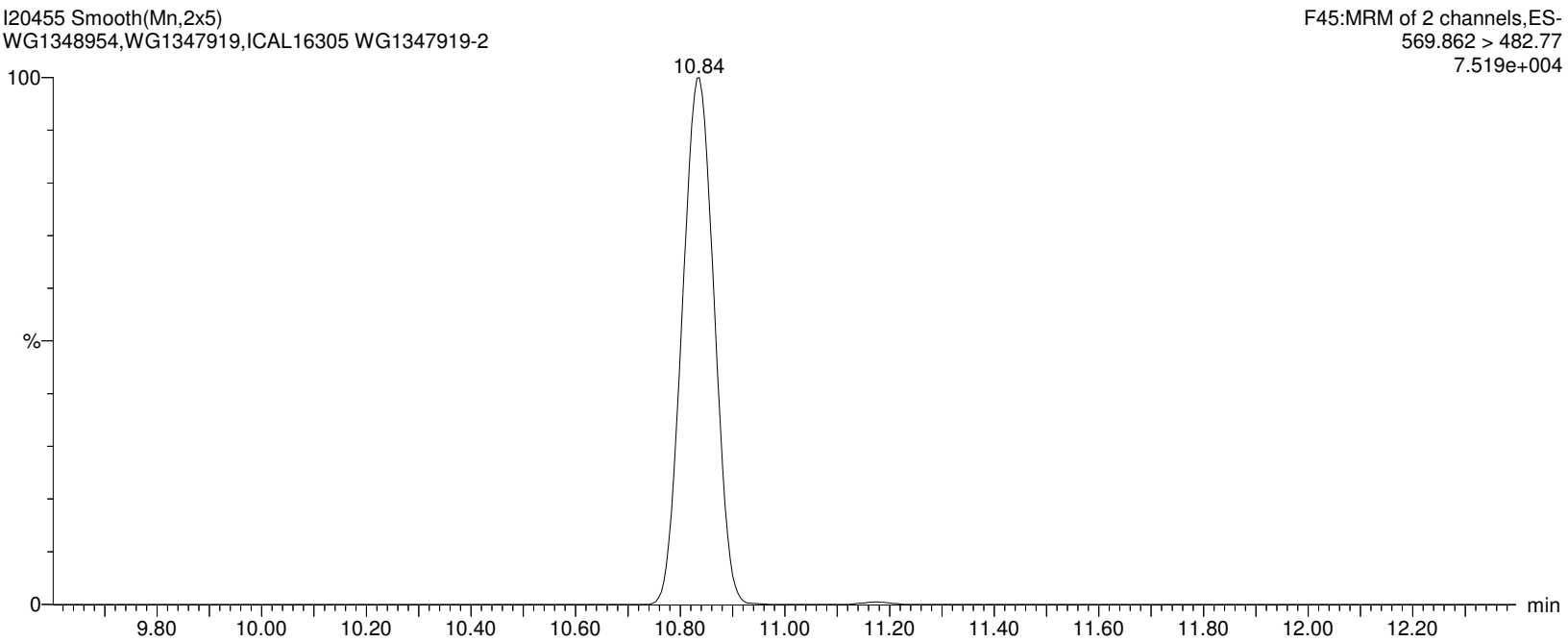

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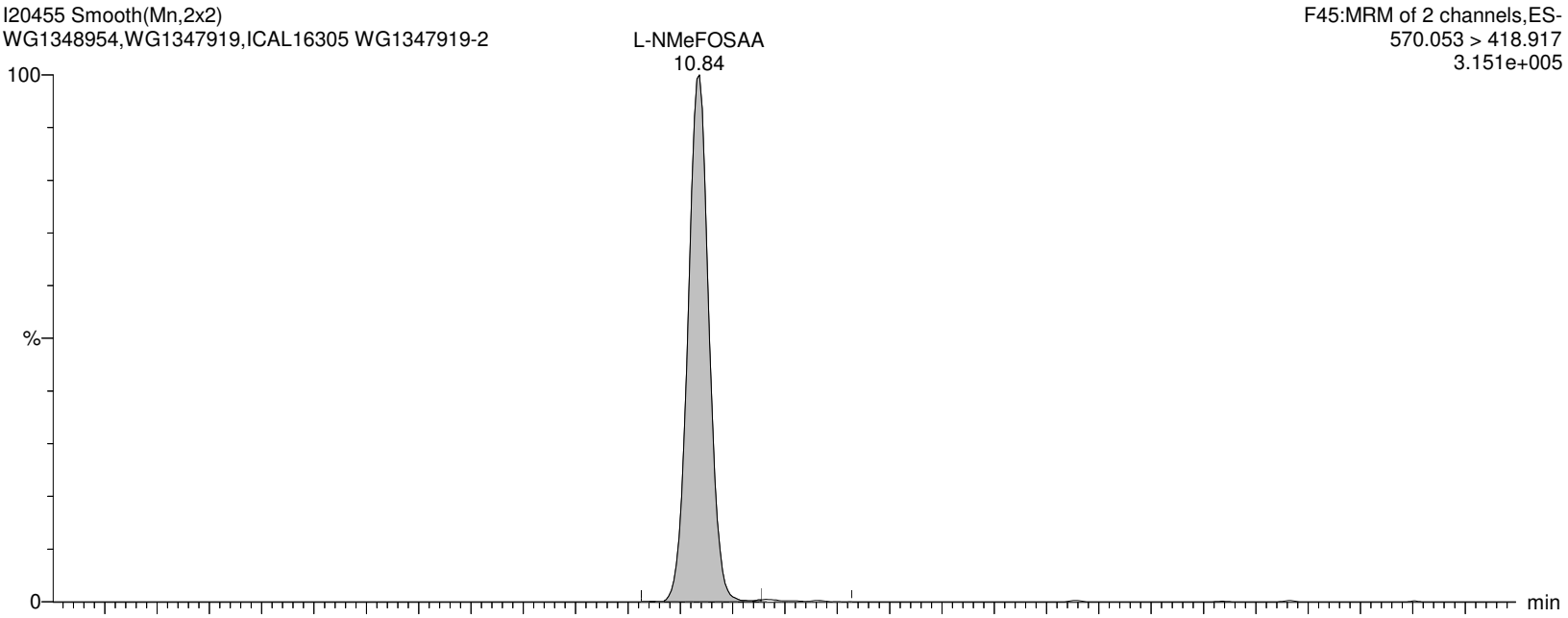

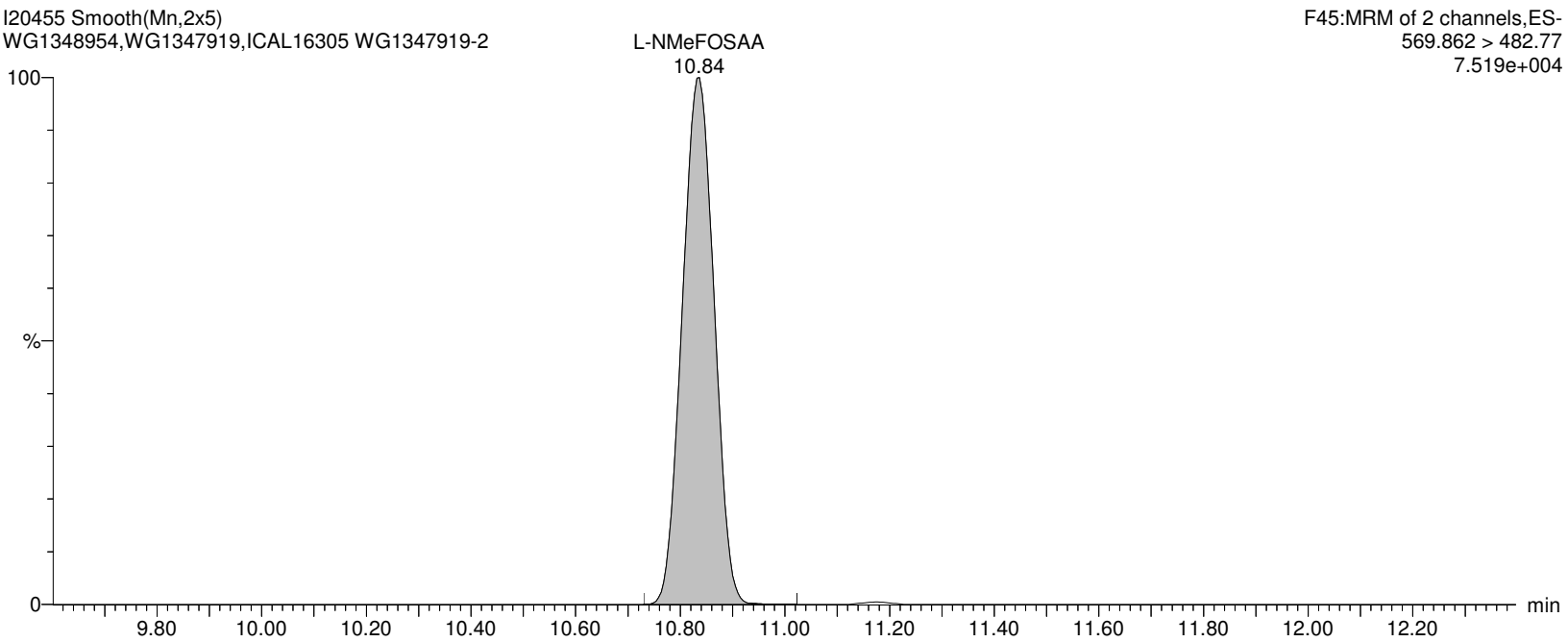

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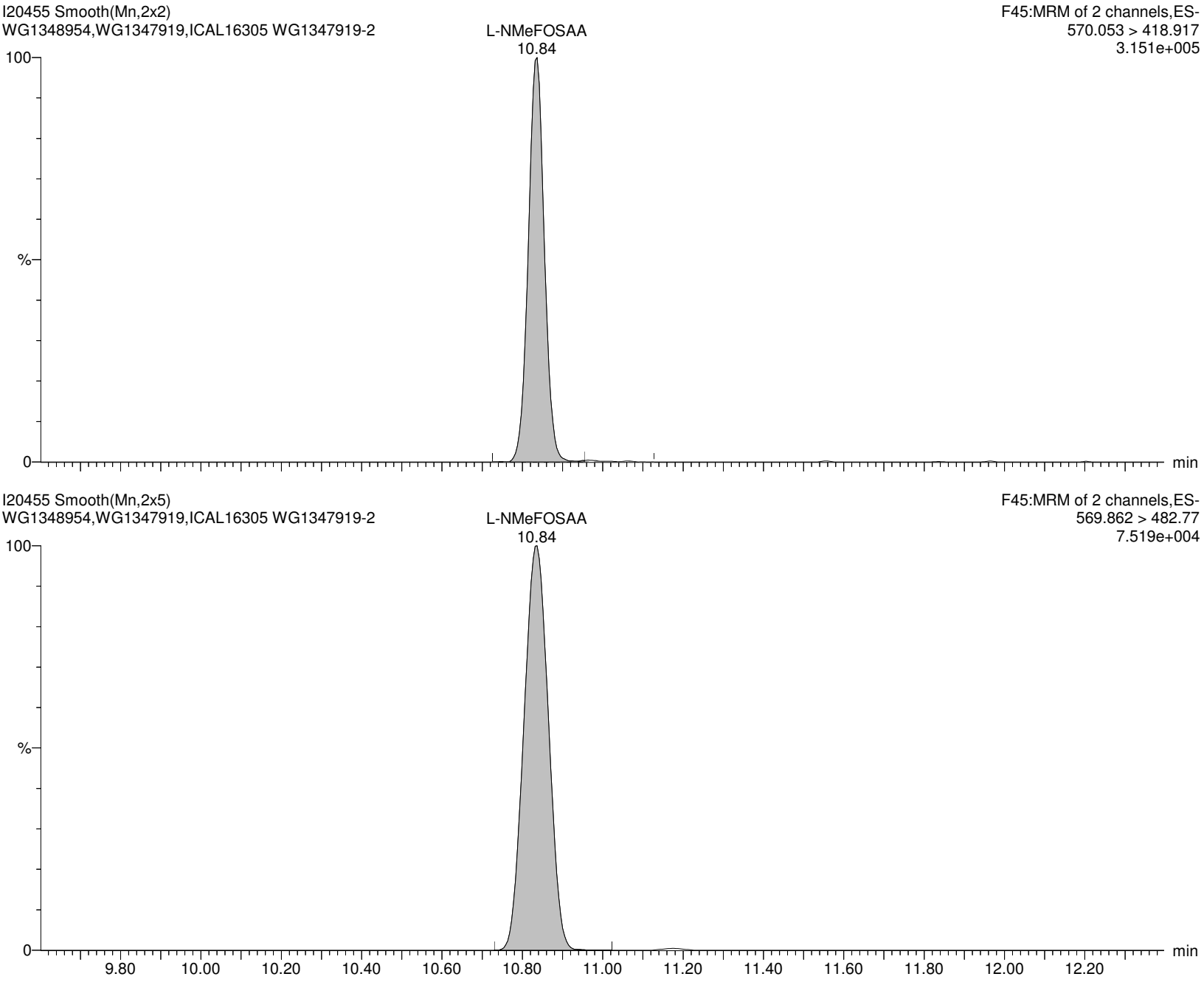

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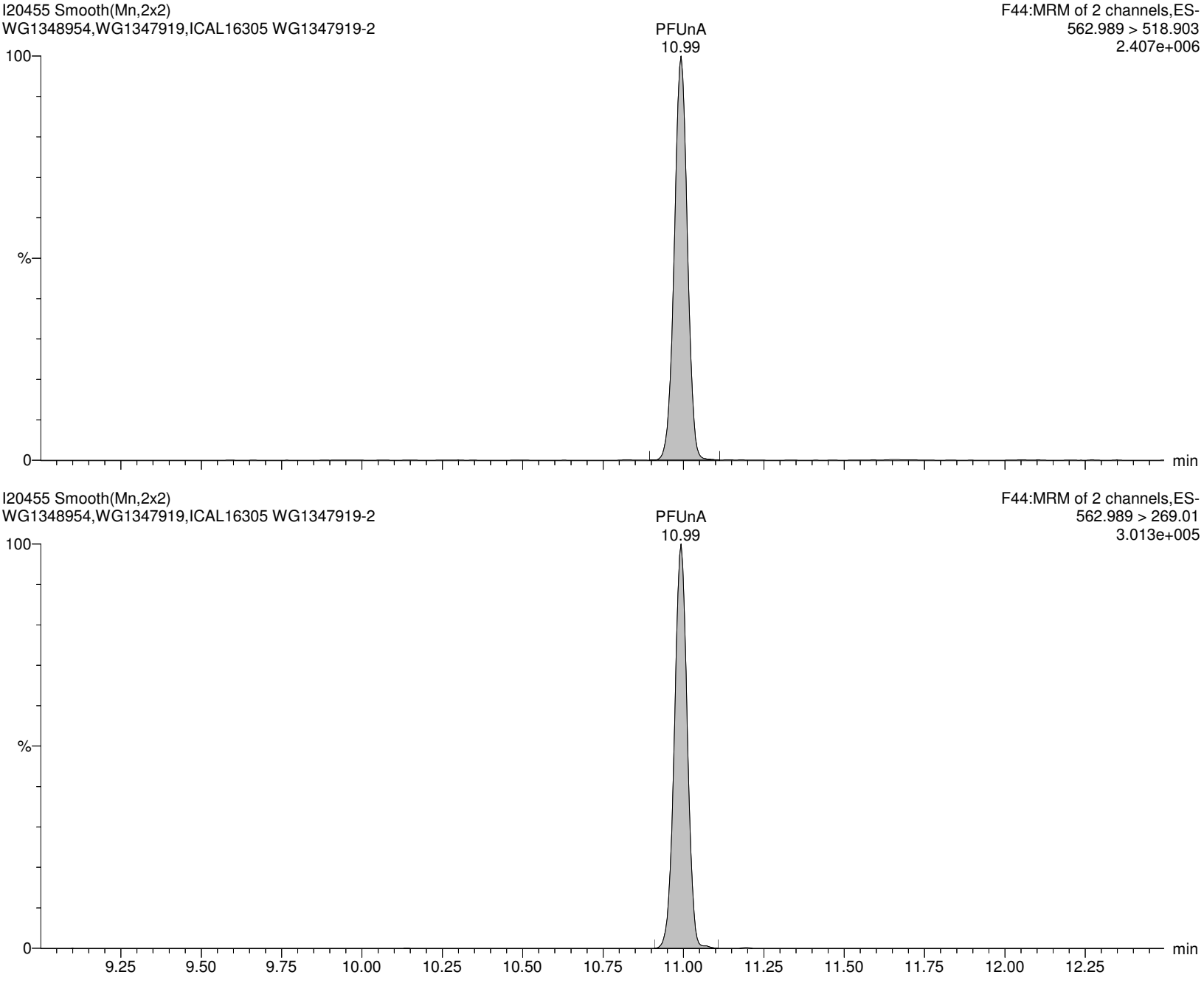

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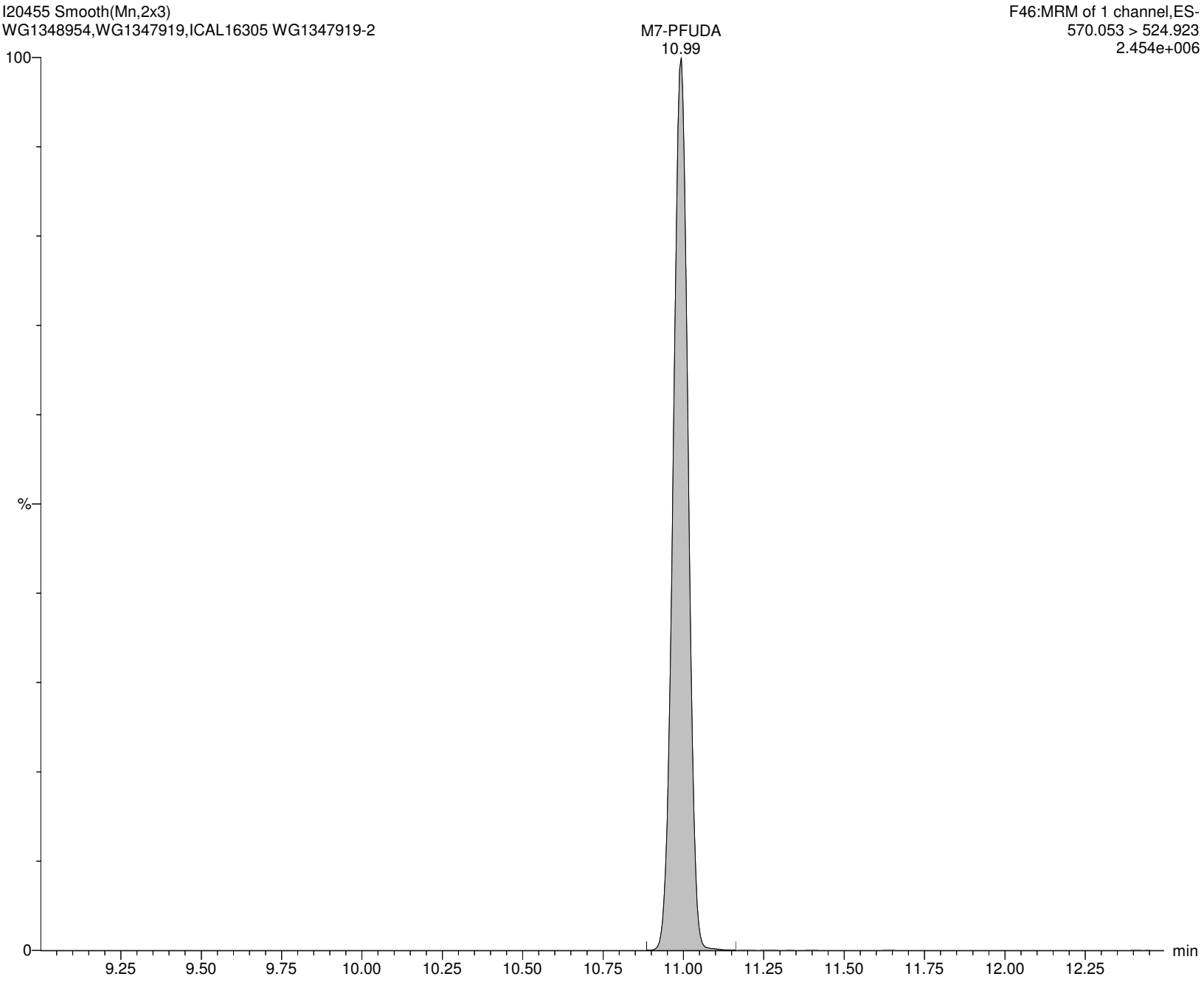

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:40 Eastern Daylight Time

Name: I20455
ID: WG1347919-2
Date: 11-Mar-2020
Time: 02:54:13
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEB0050
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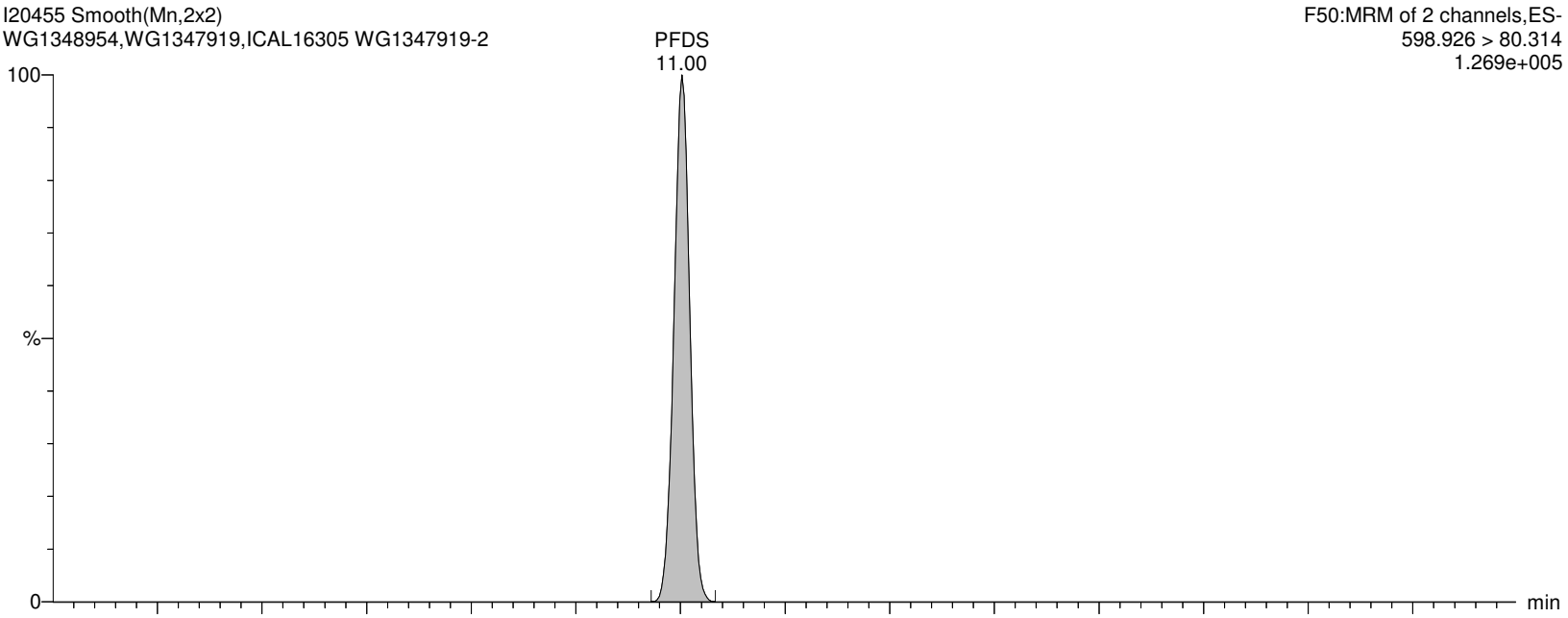

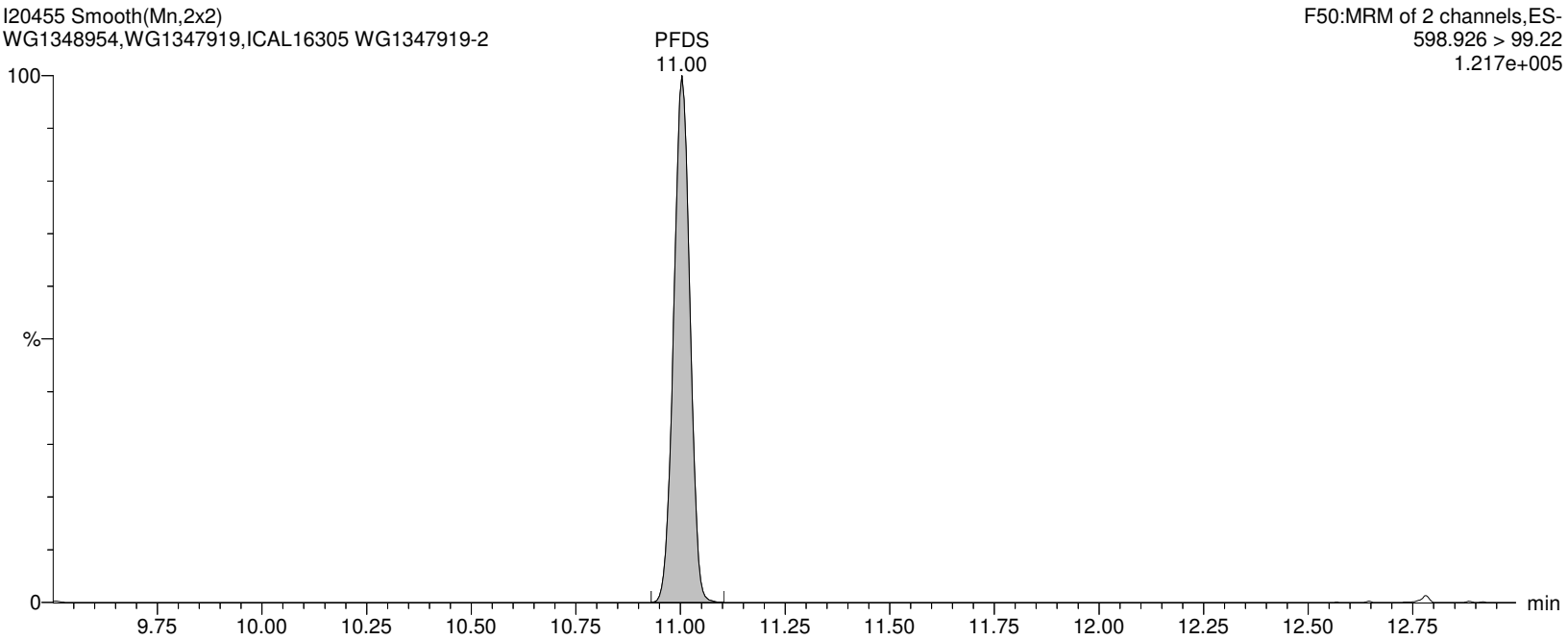

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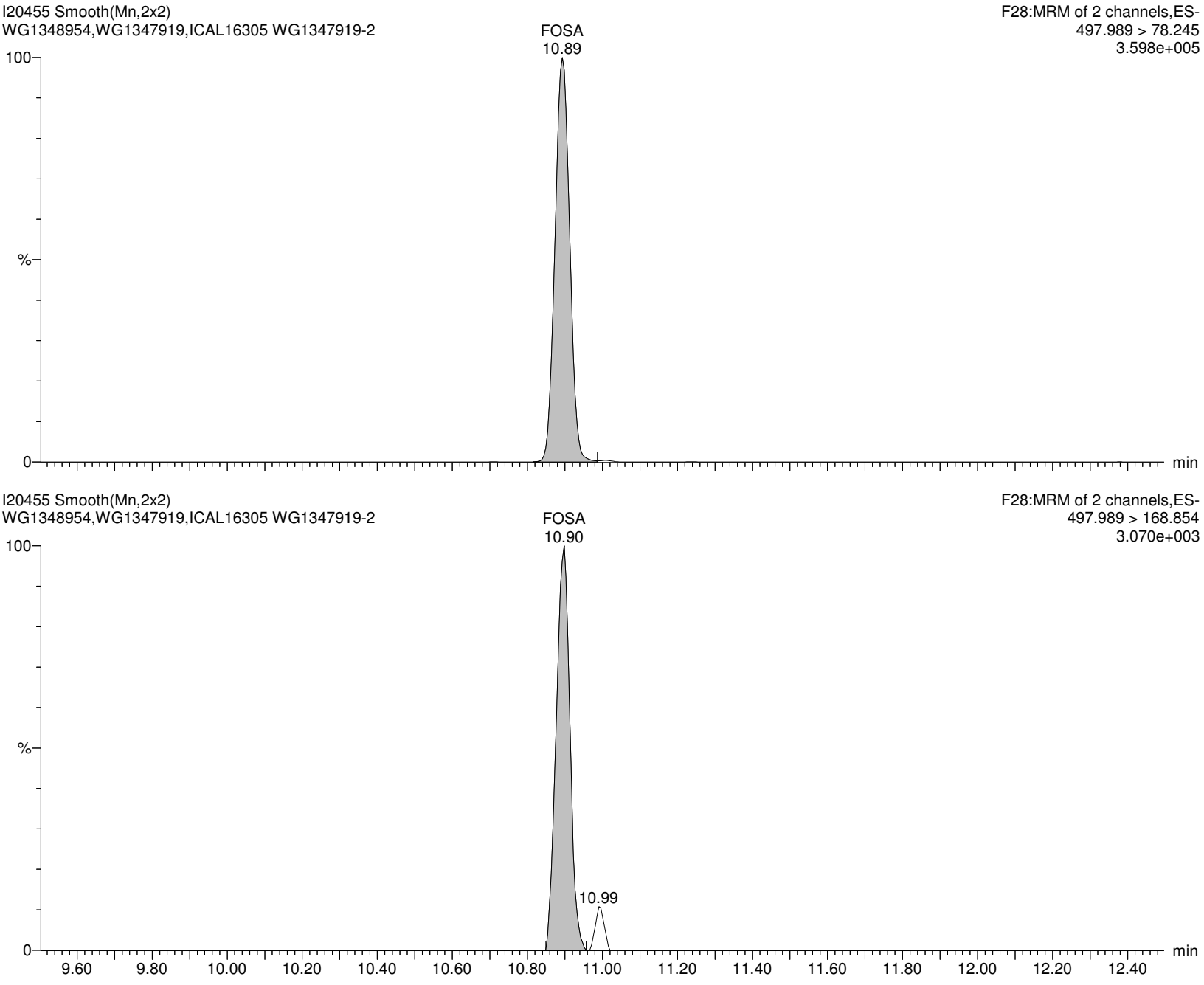

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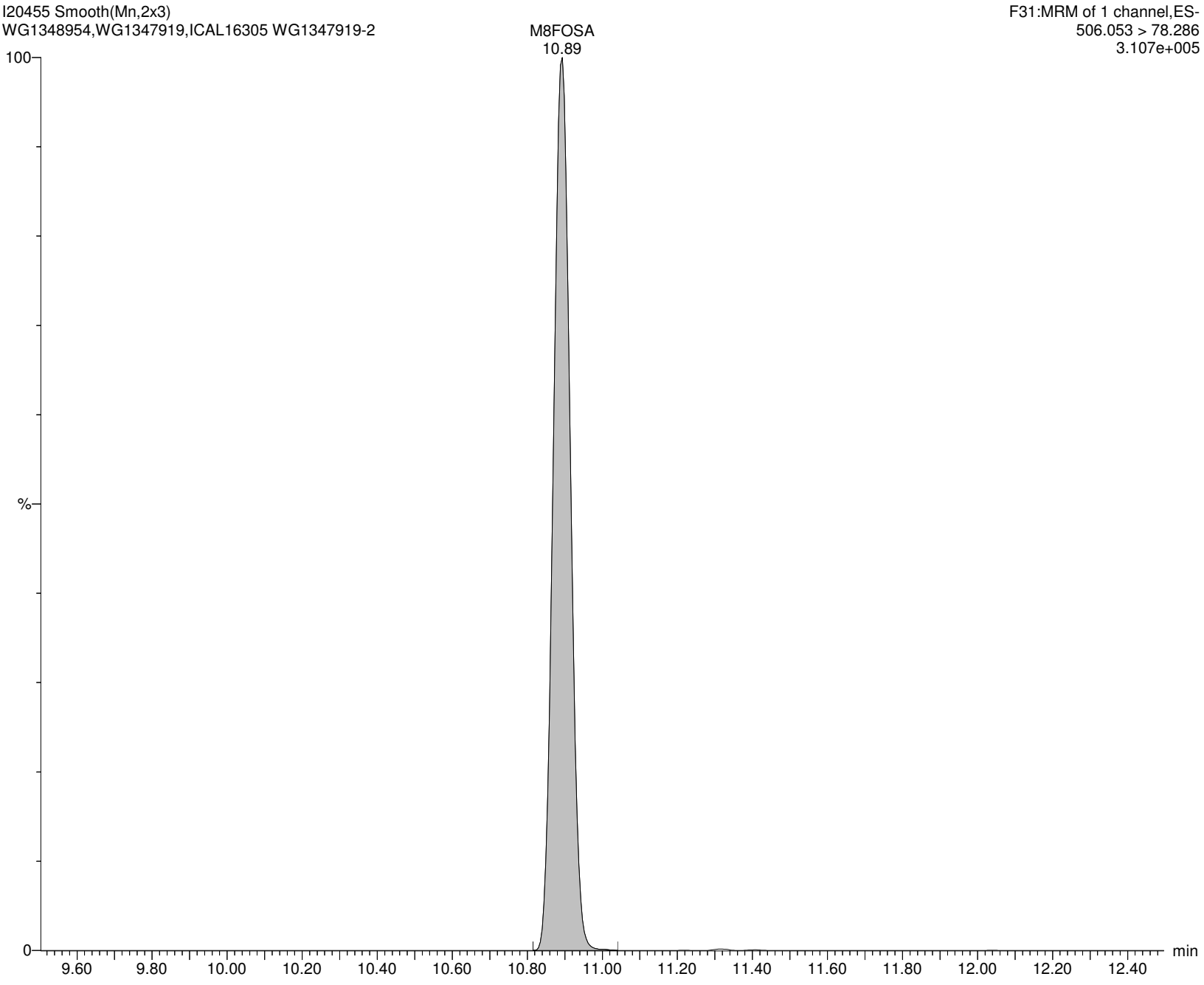

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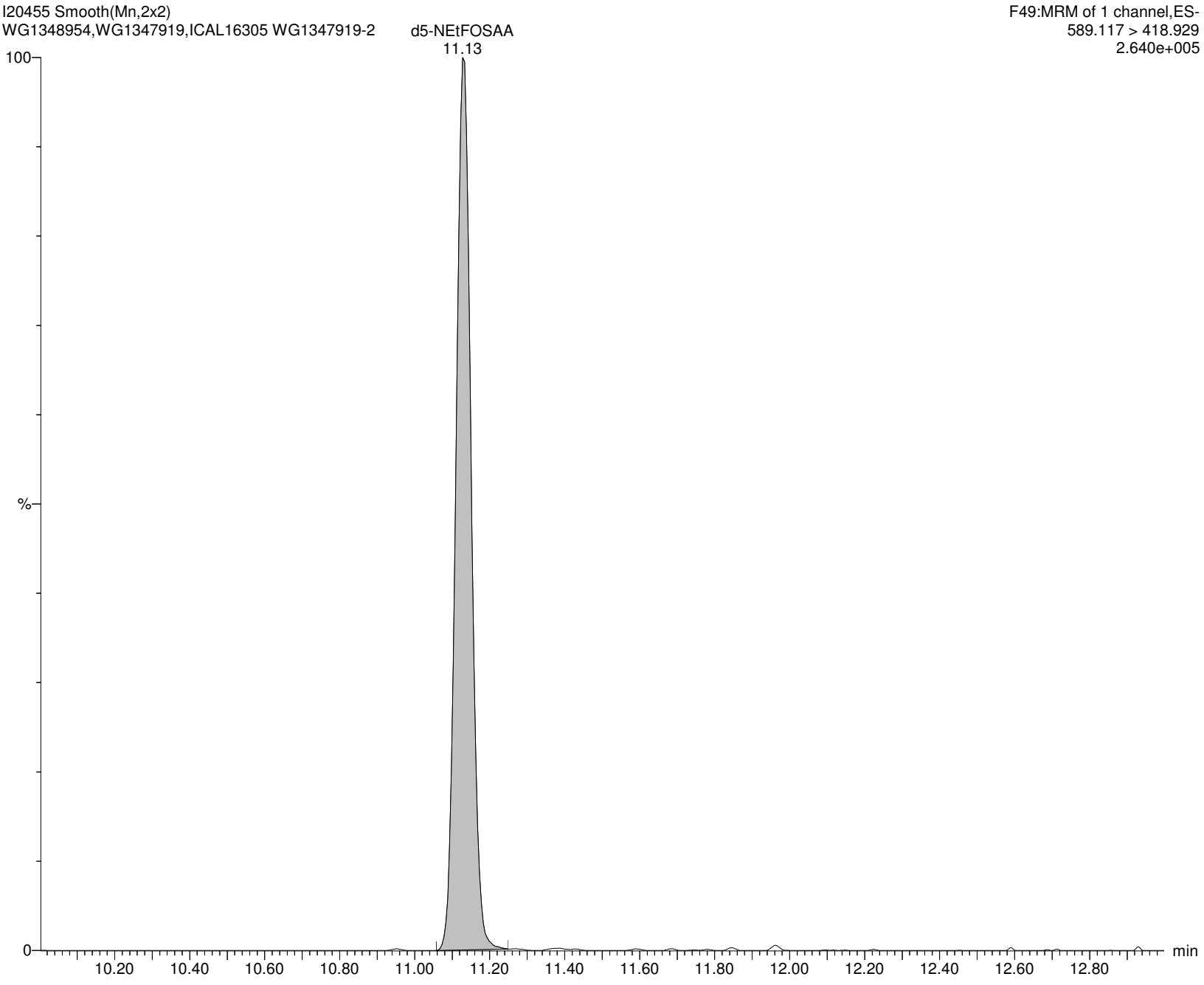

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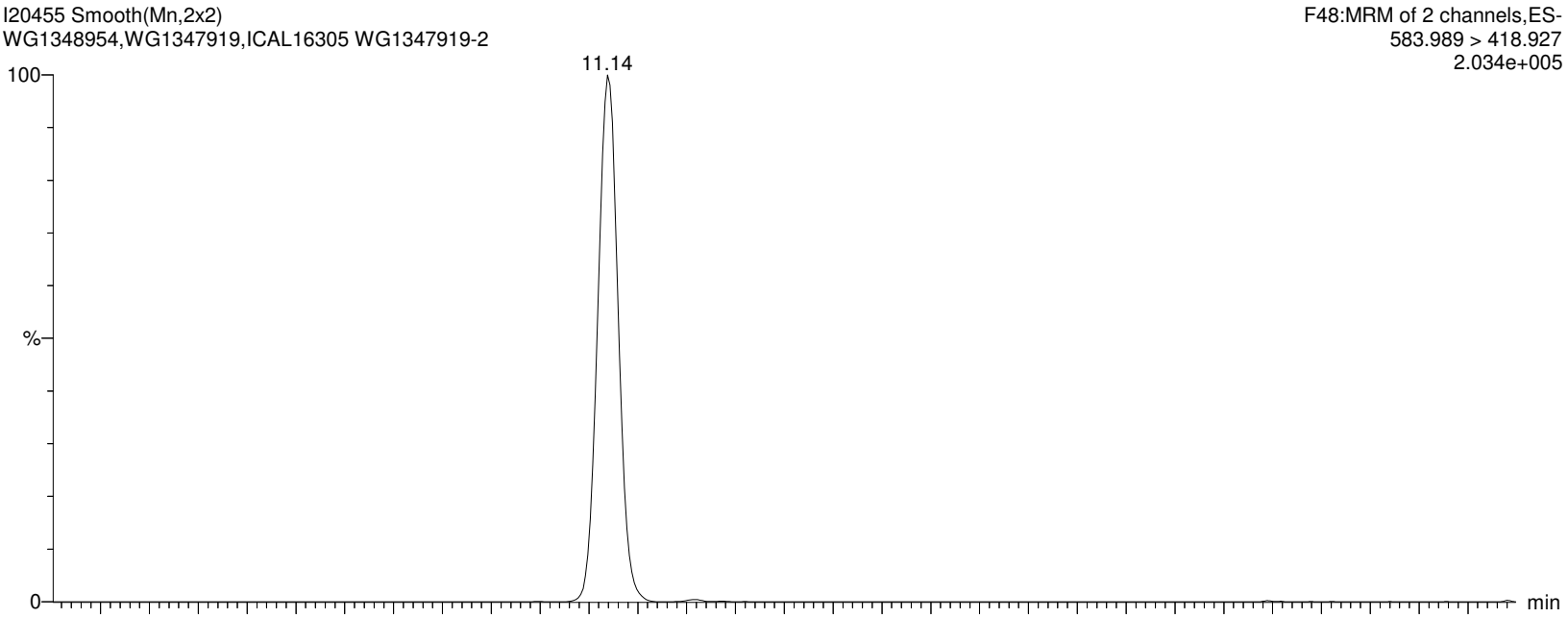

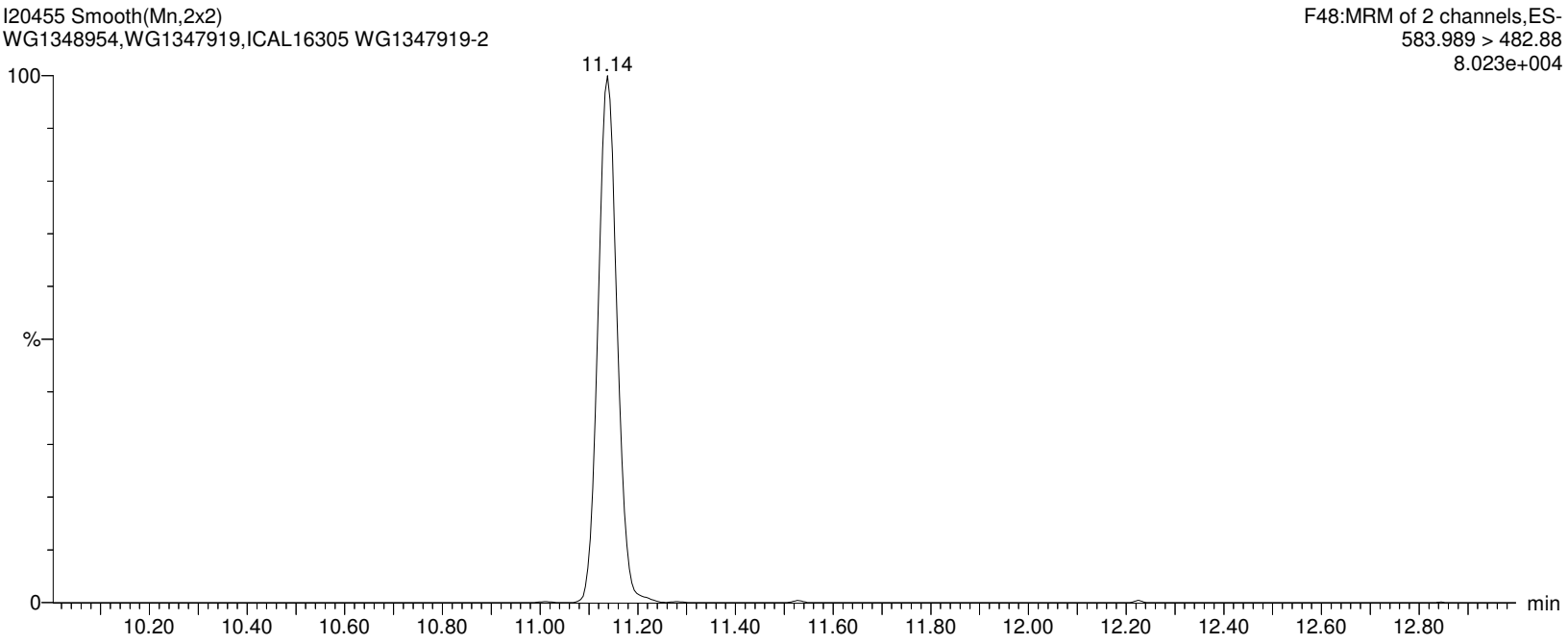

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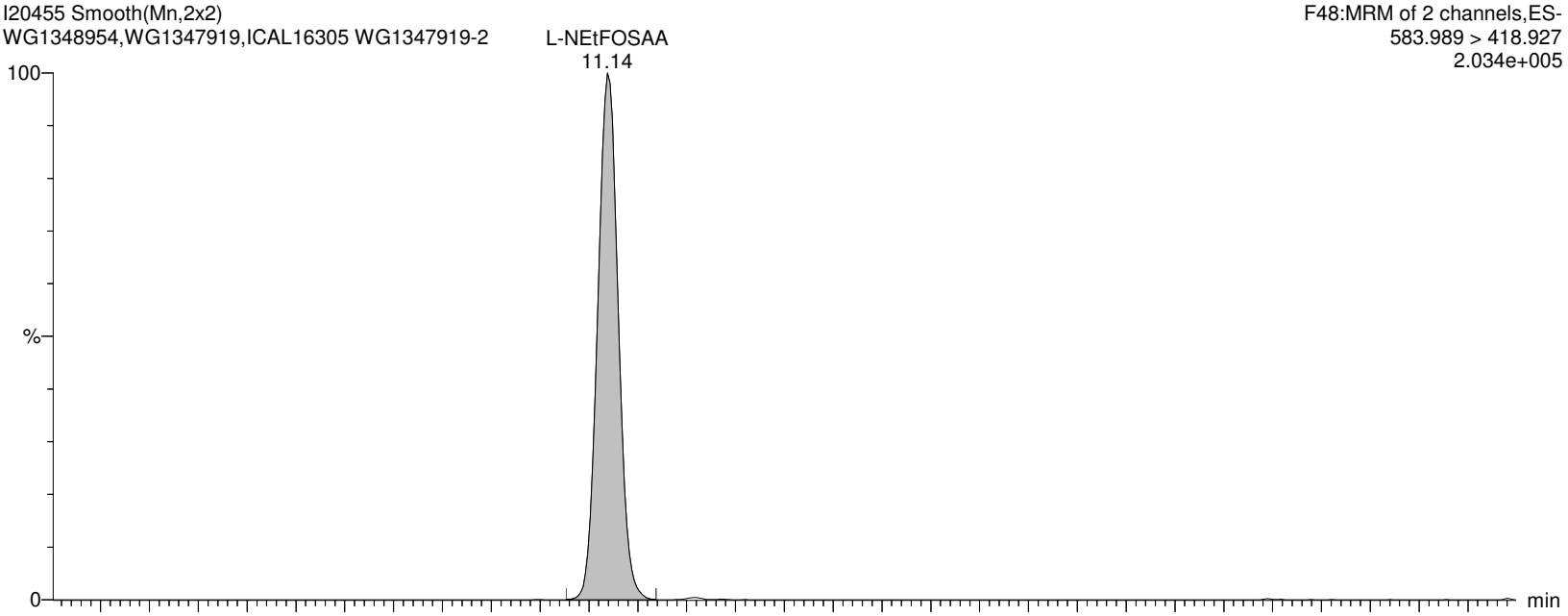

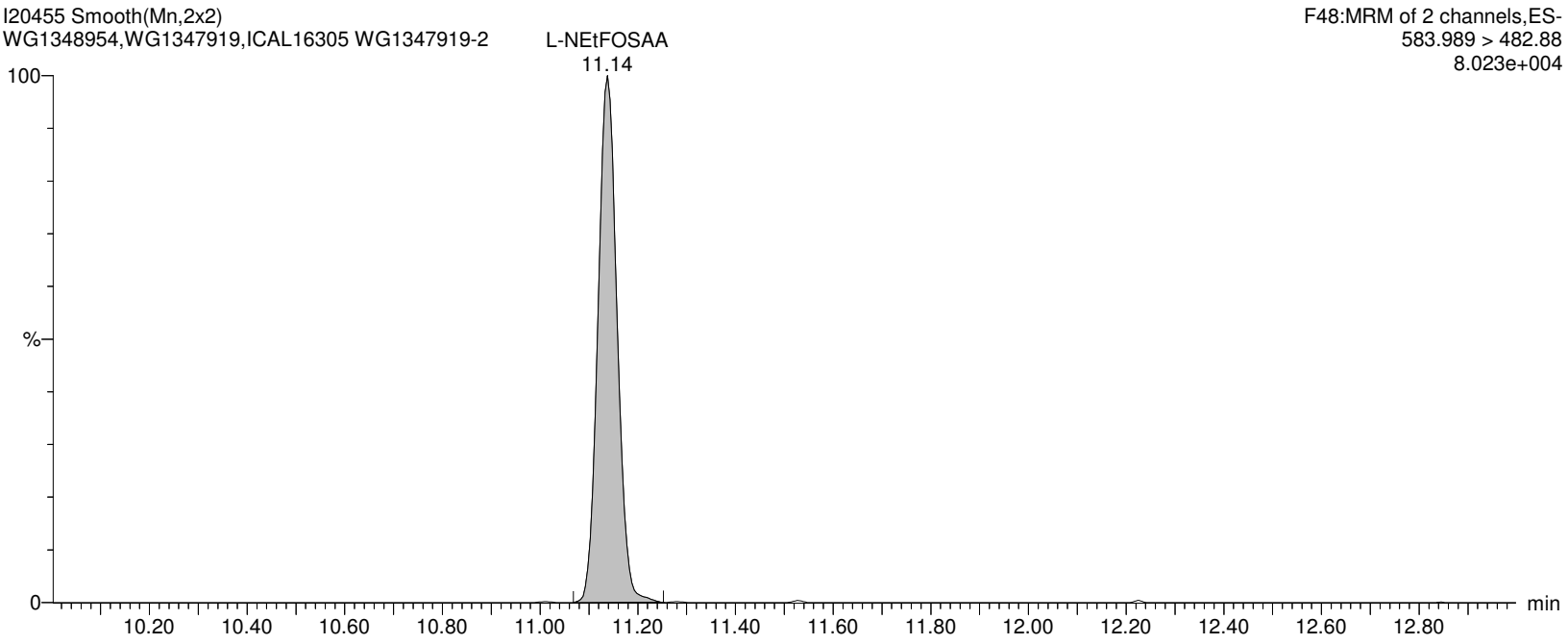

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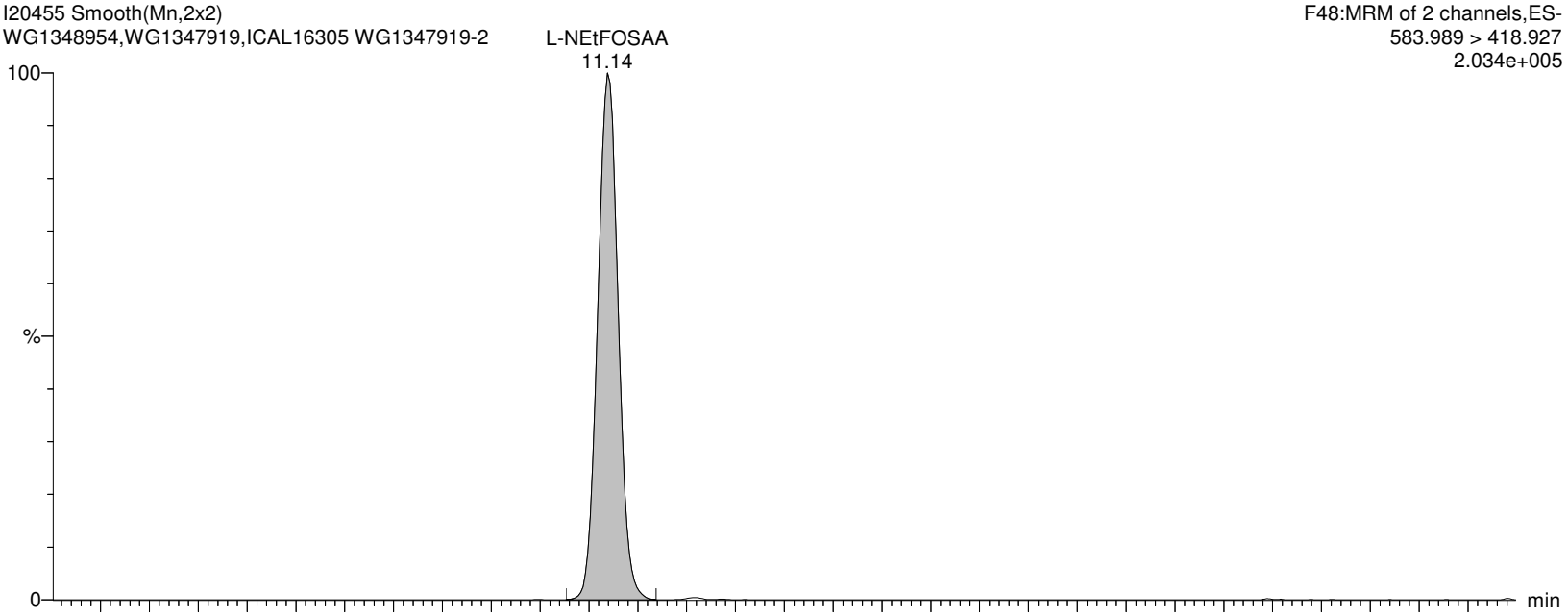

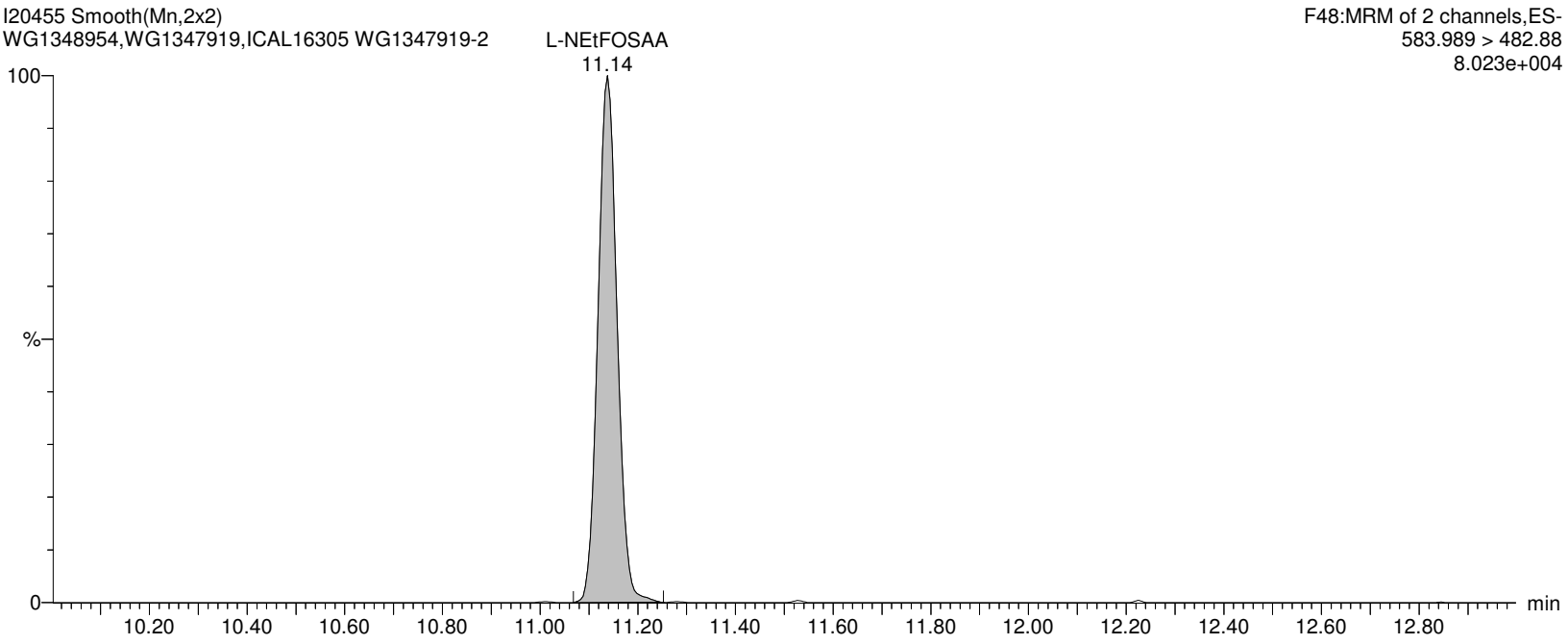

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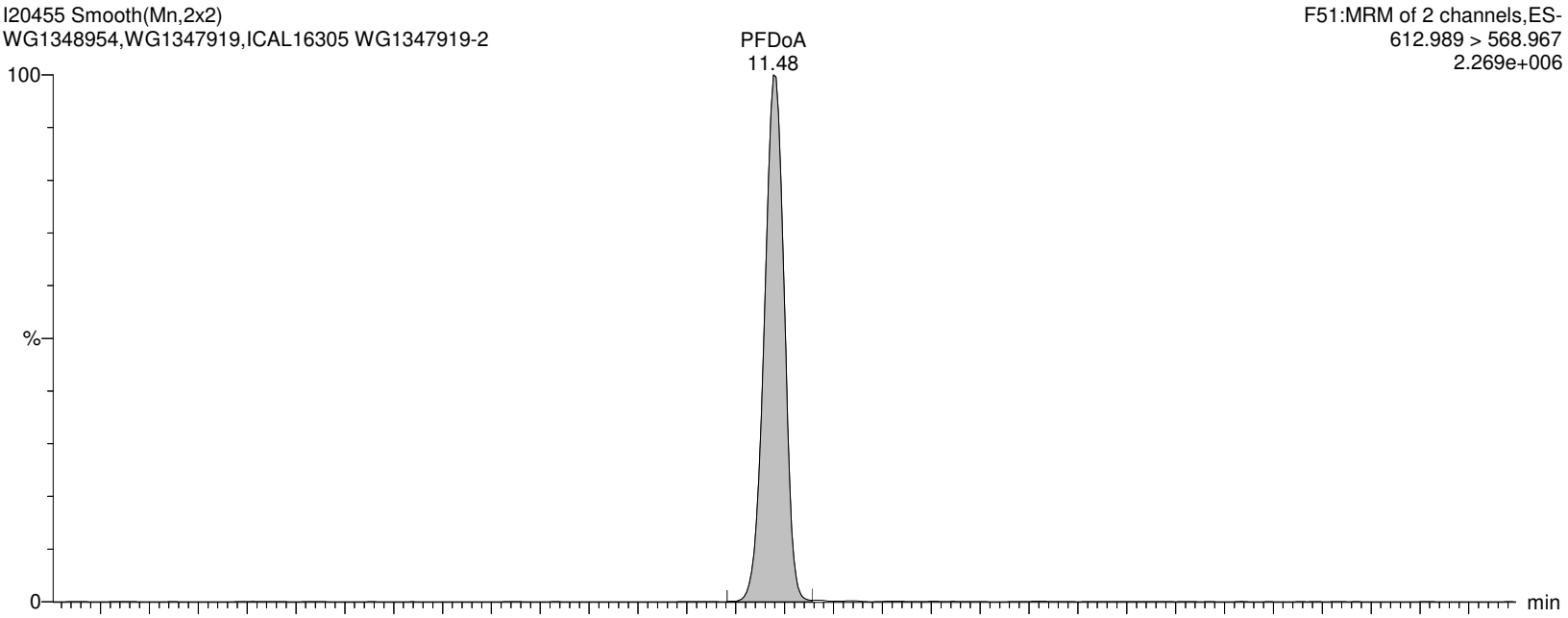

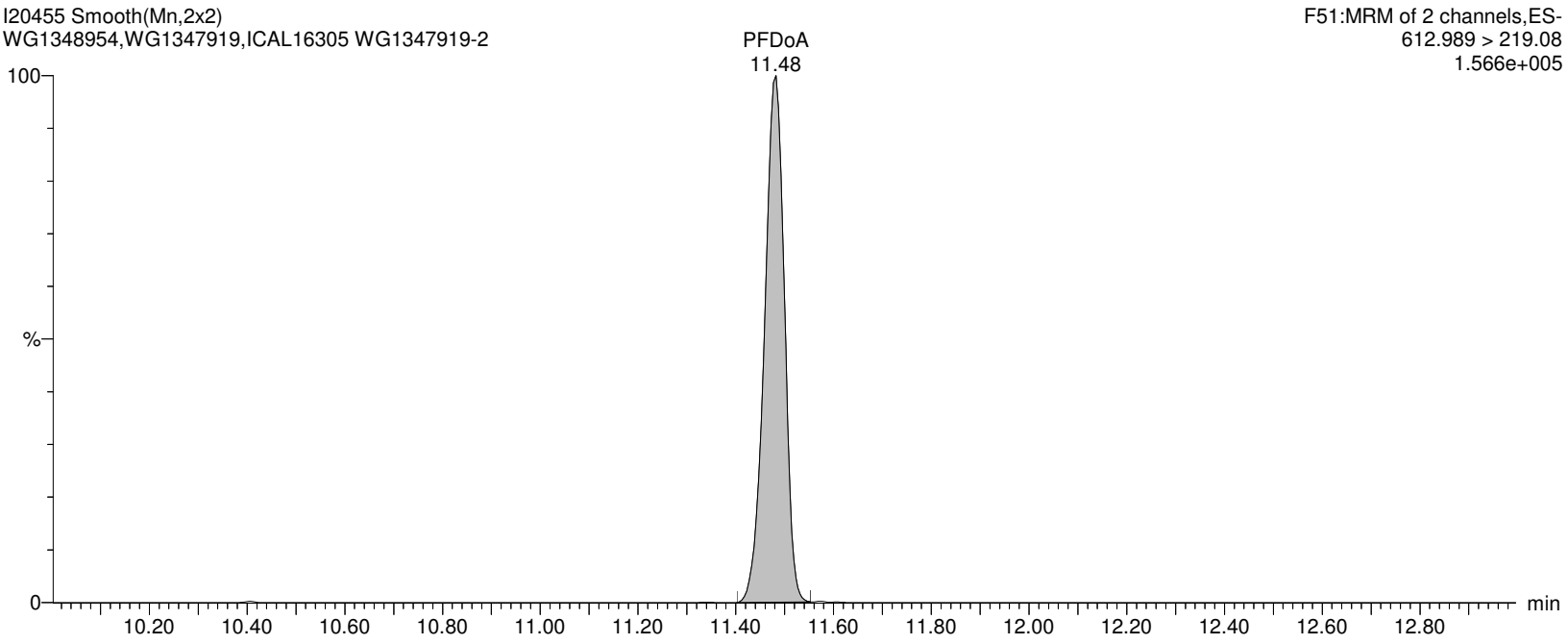

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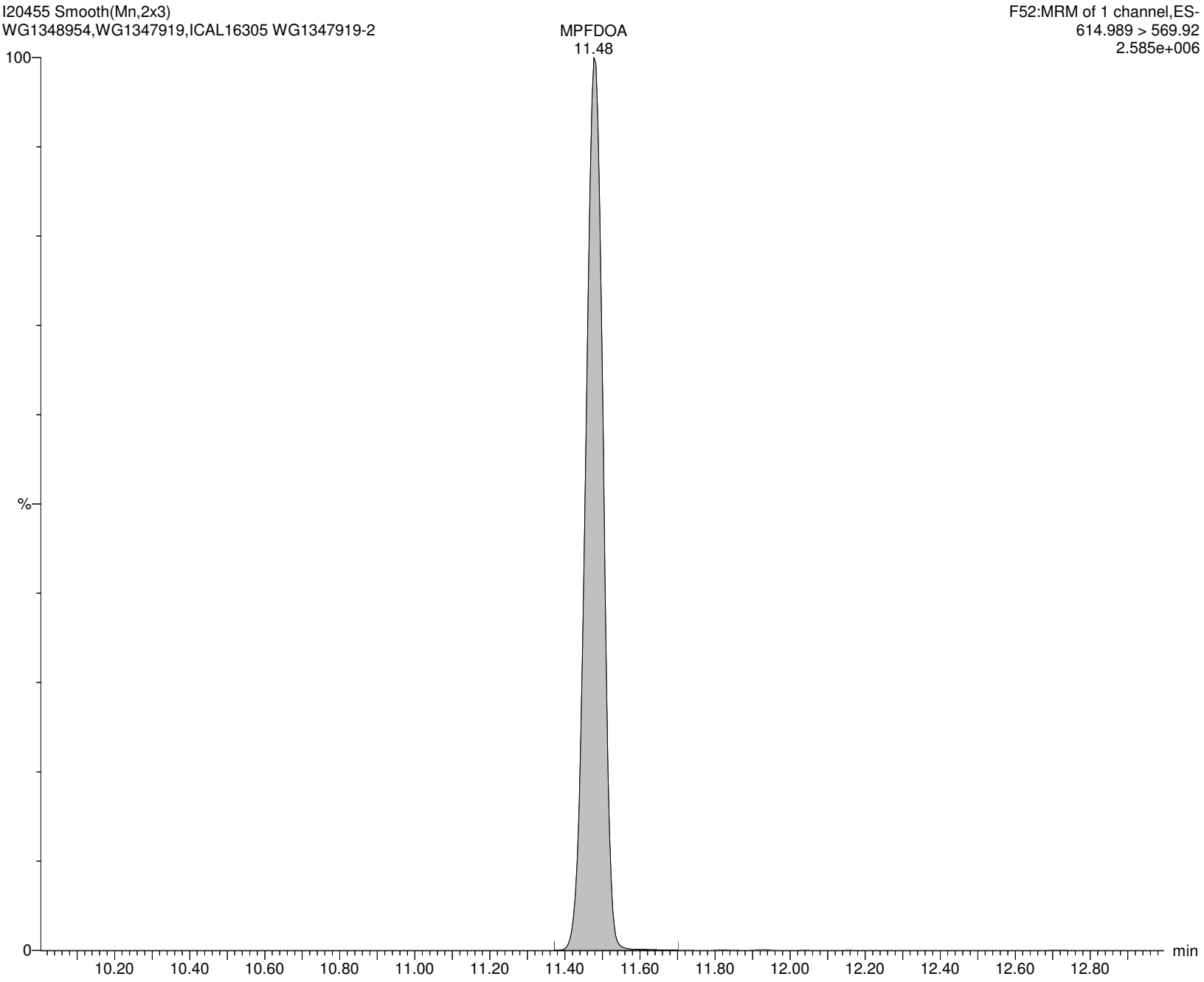

all concentration units in (ng/mL)

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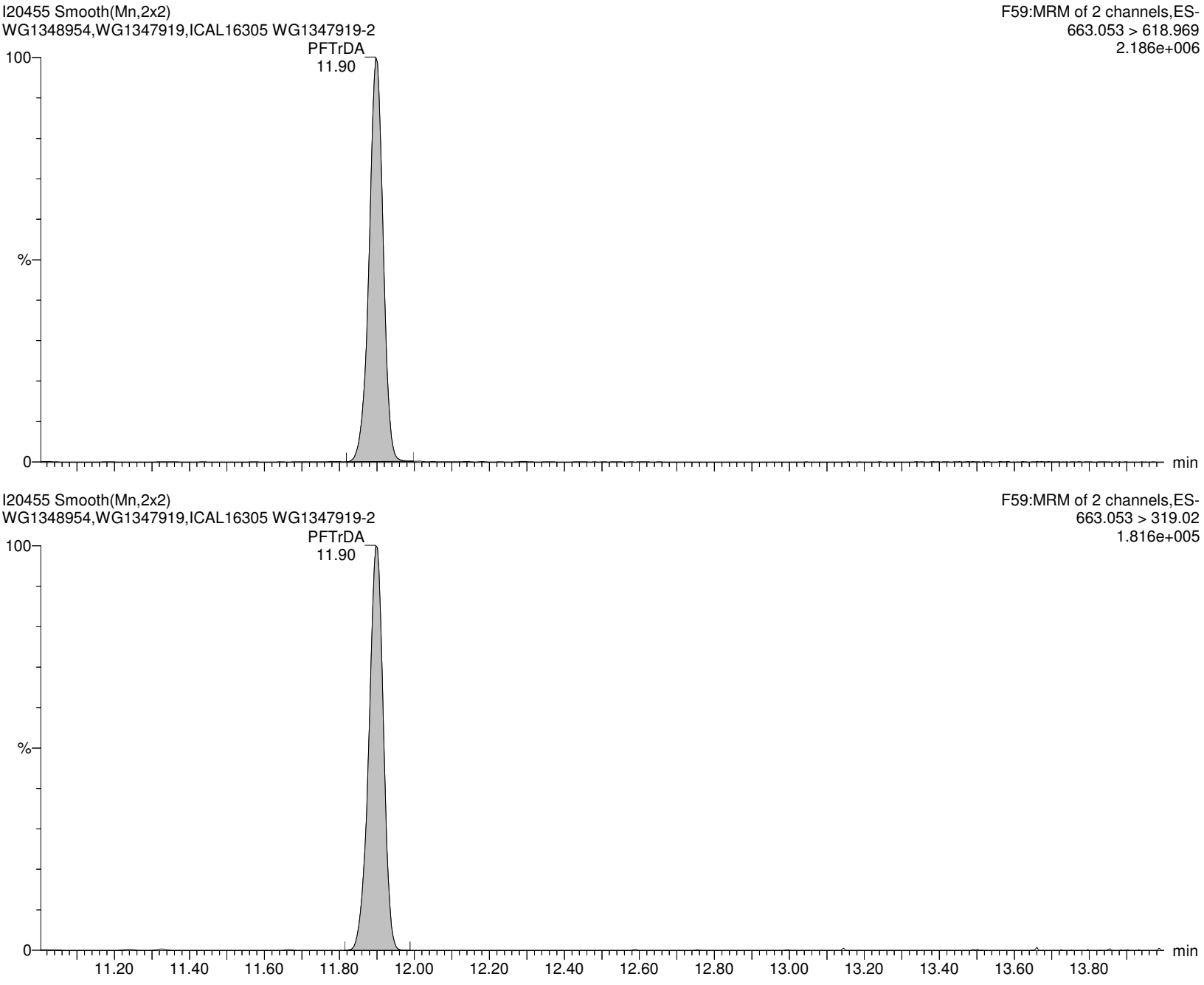

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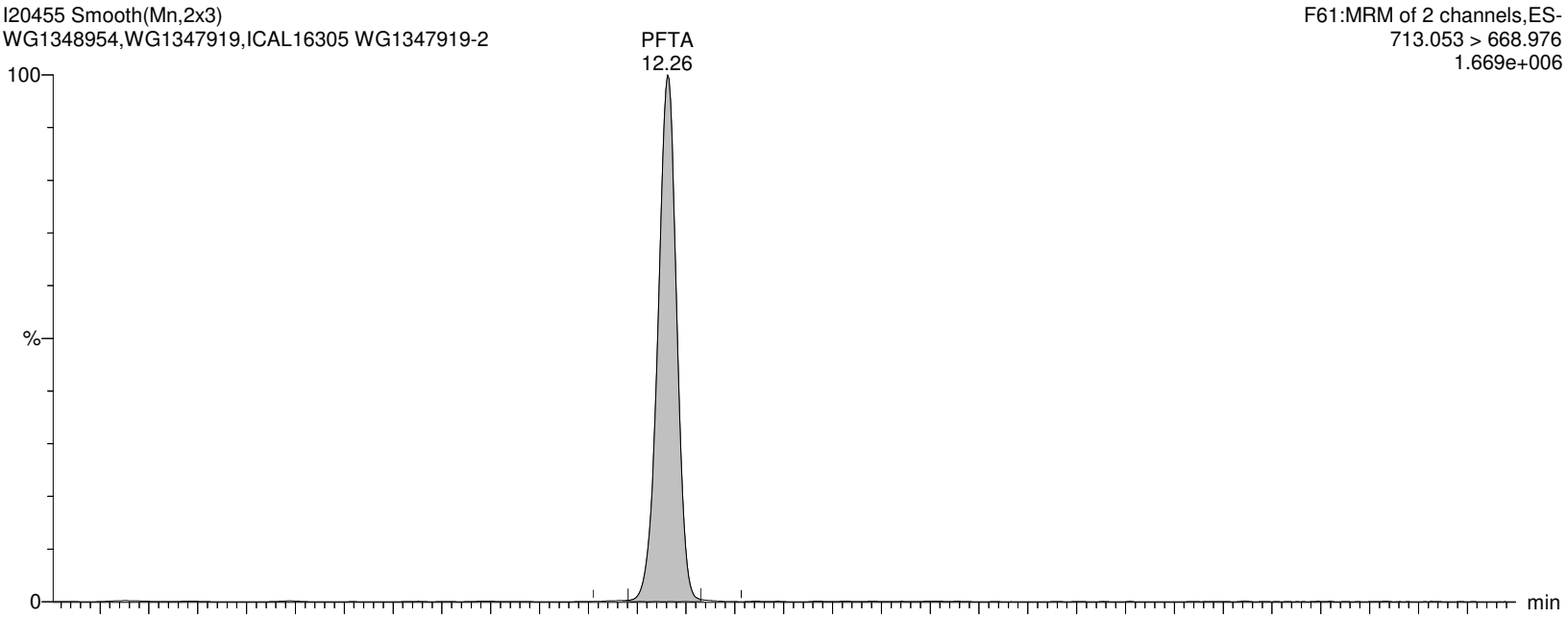

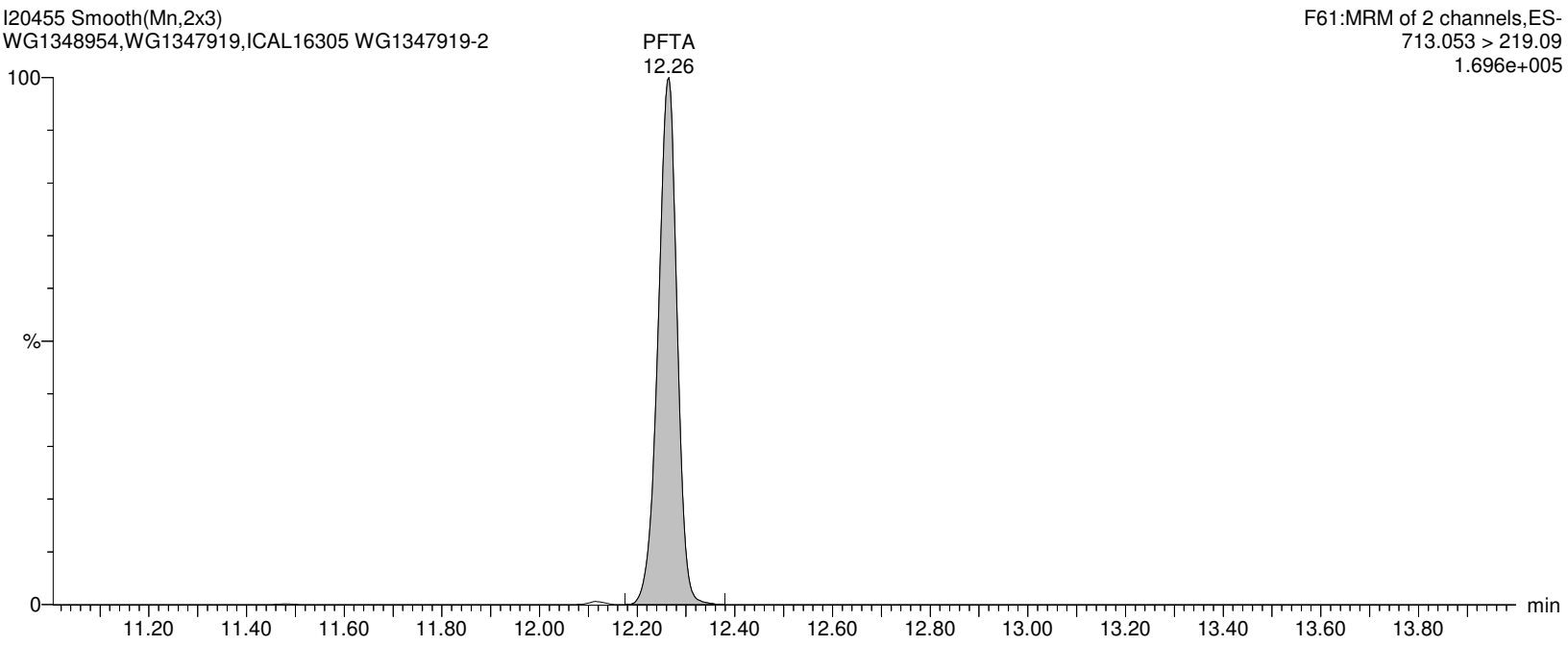

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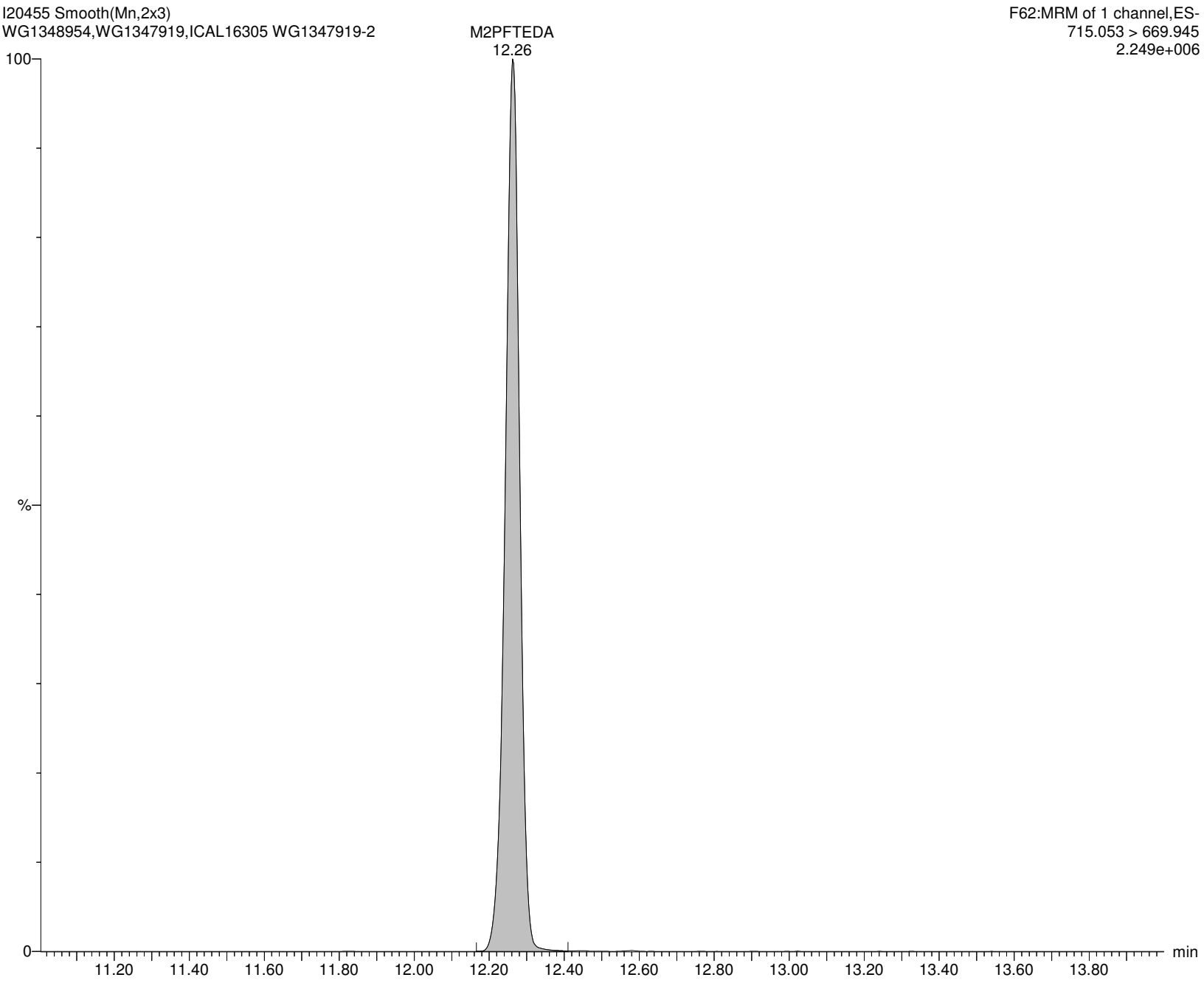

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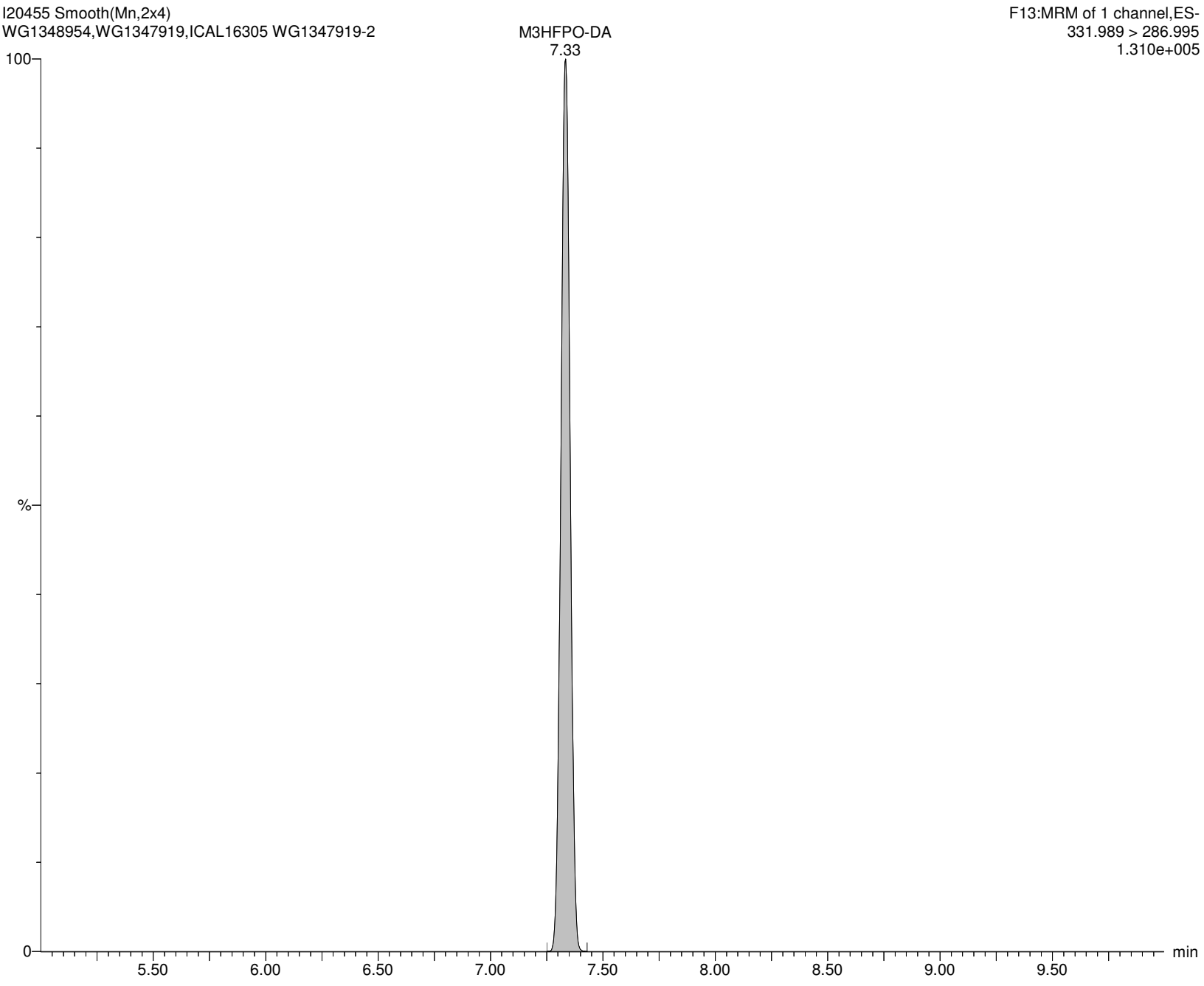

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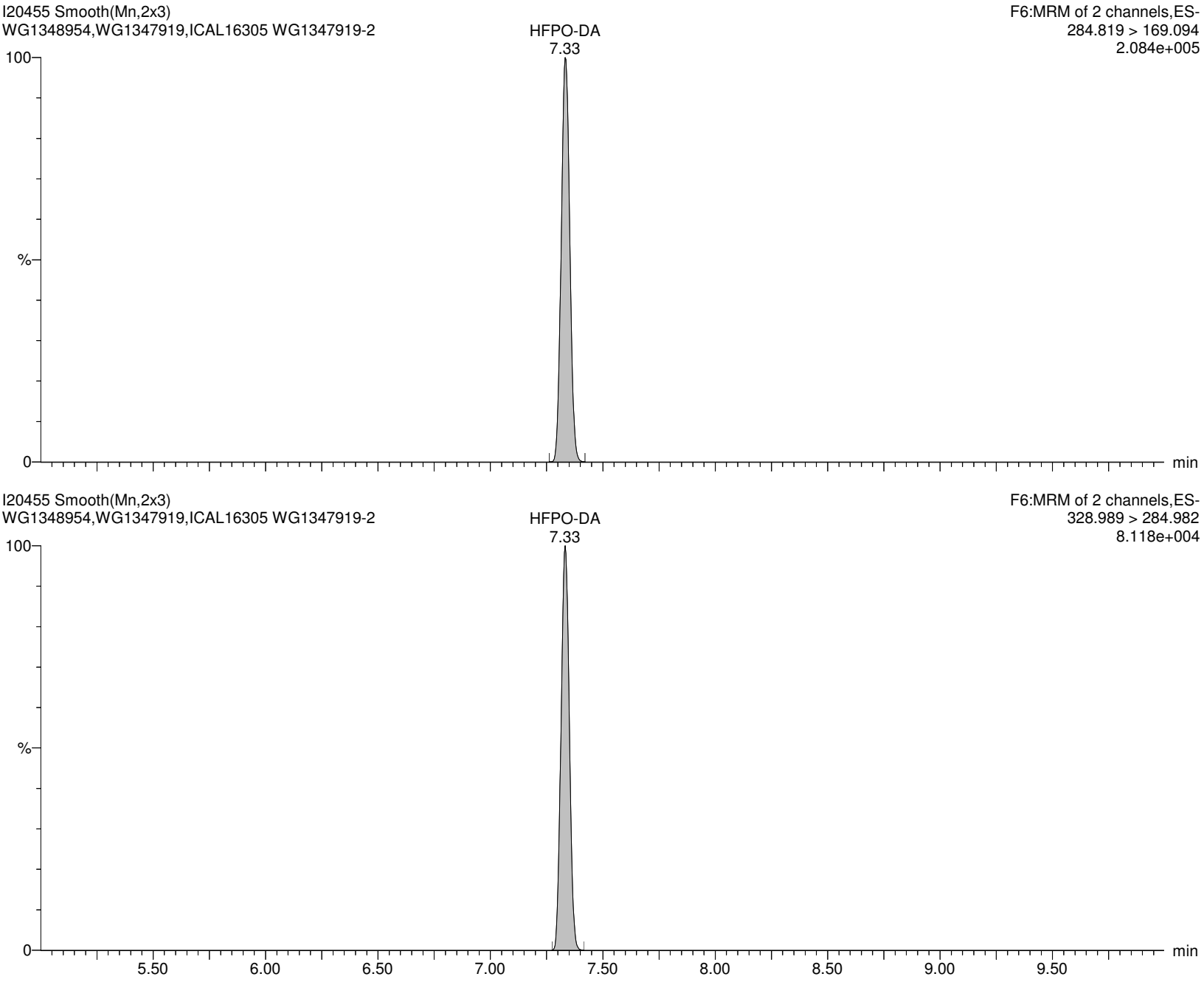

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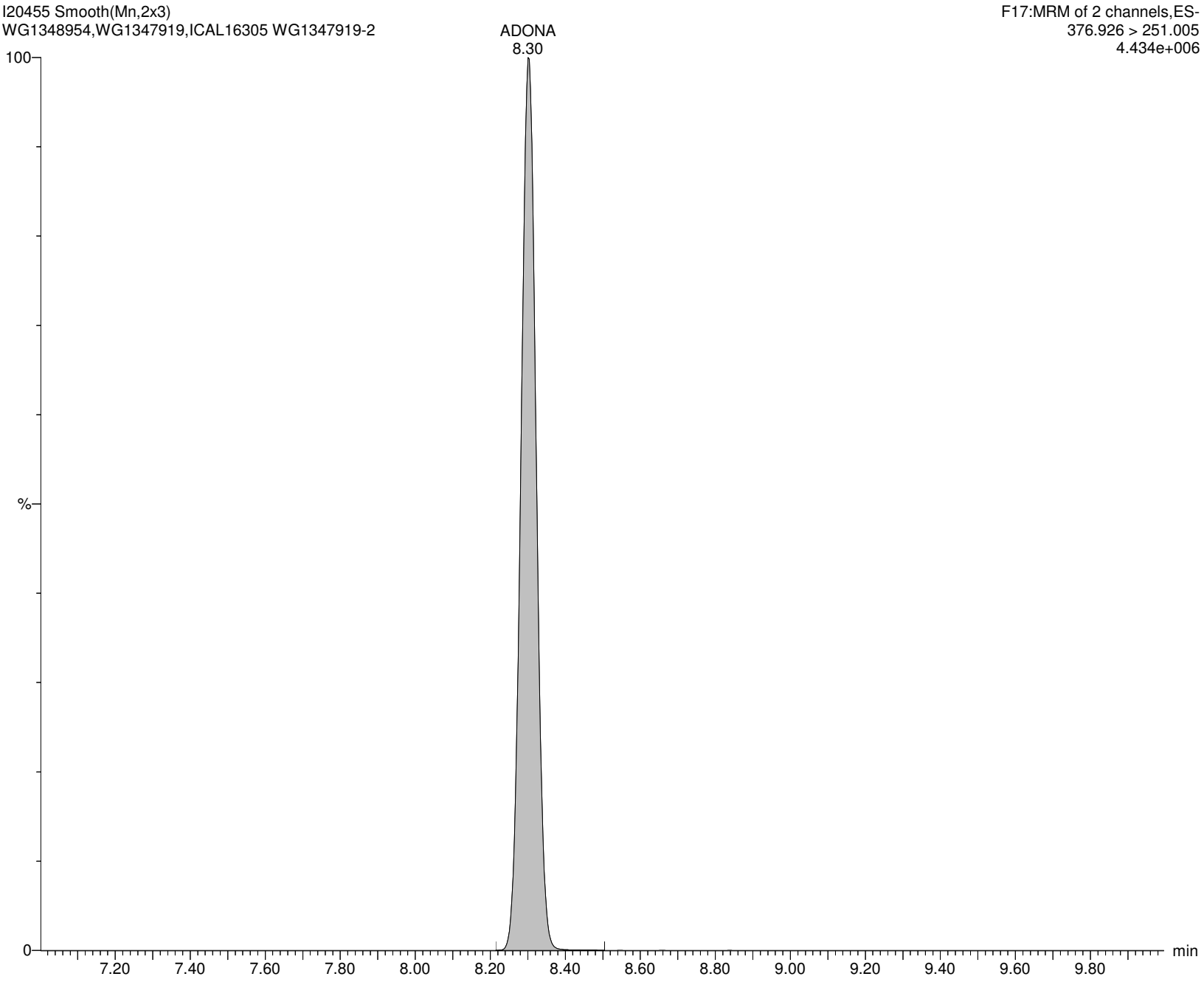

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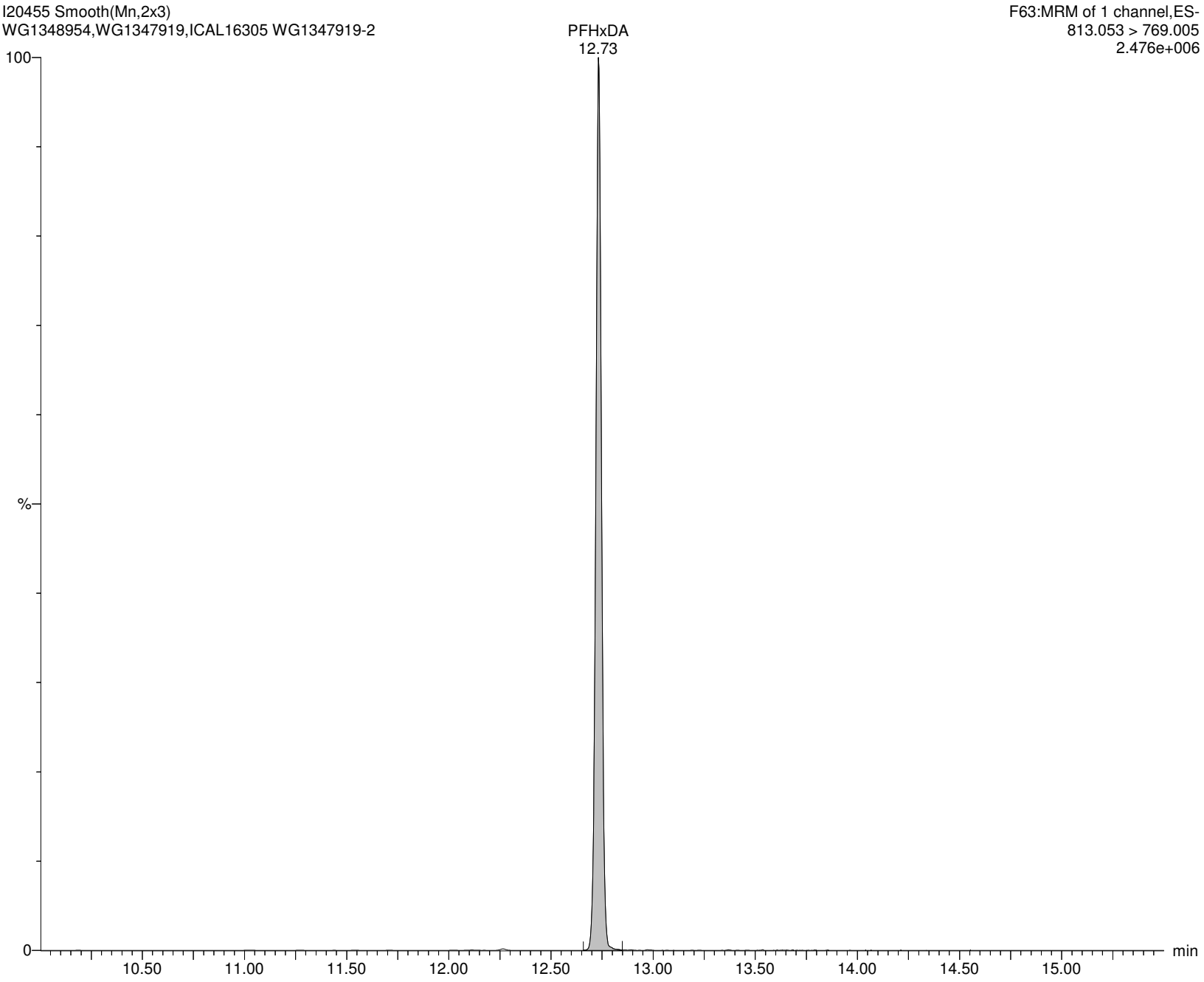
PFHxDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:40 Eastern Daylight Time

Name: I20455
ID: WG1347919-2
Date: 11-Mar-2020
Time: 02:54:13
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 2:A,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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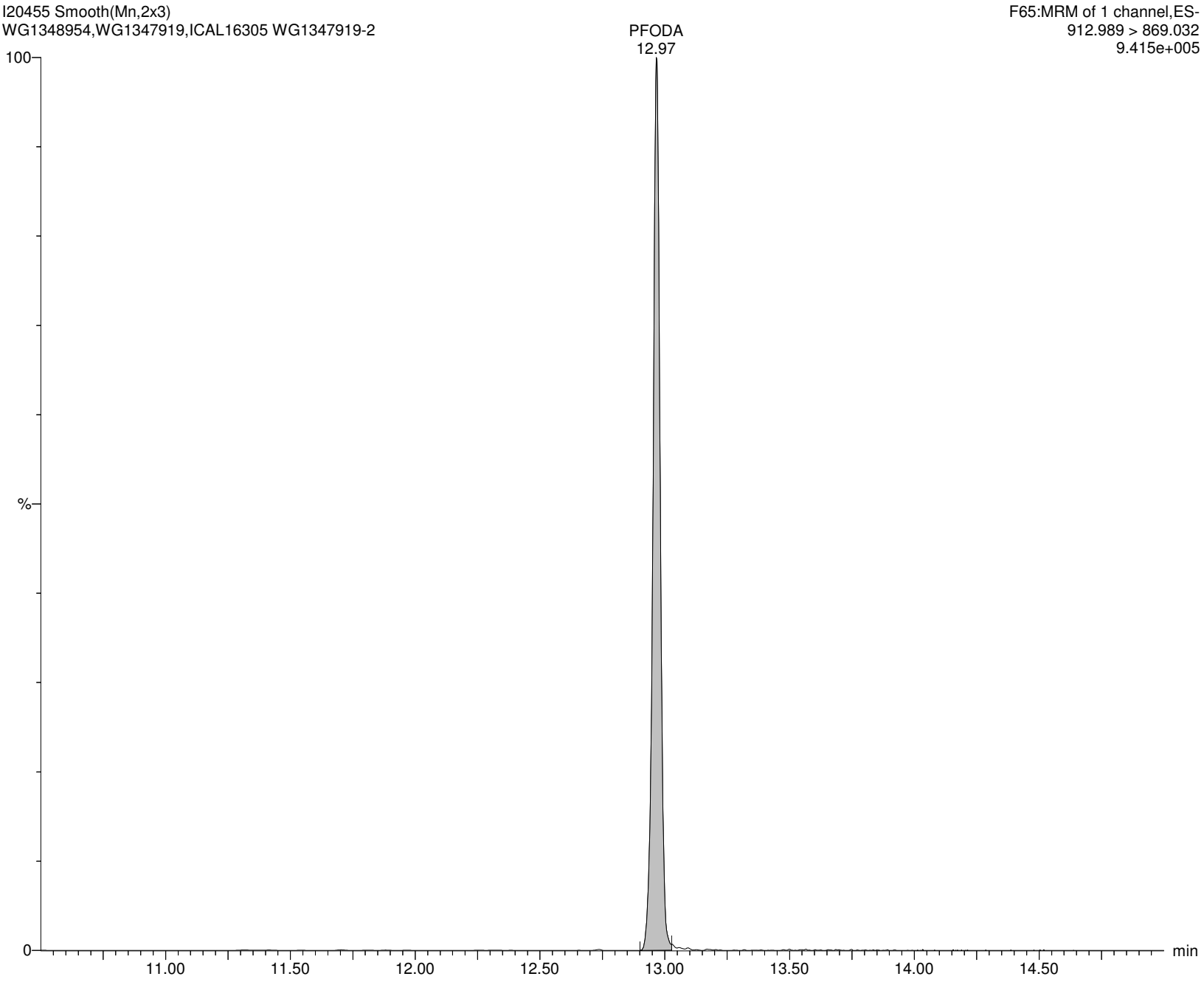

all concentration units in (ng/mL)

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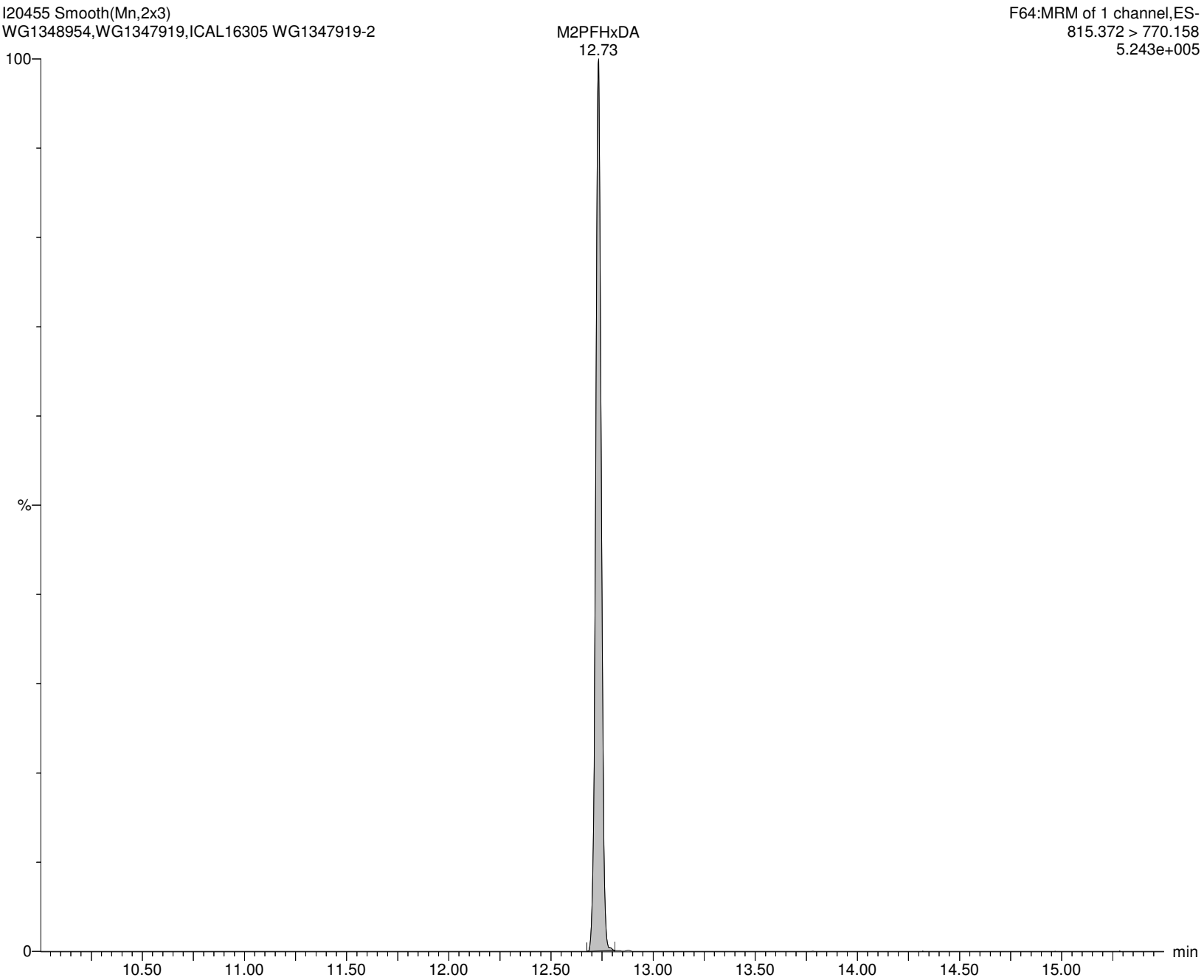
M2PFHxDA



all concentration units in (ng/mL)

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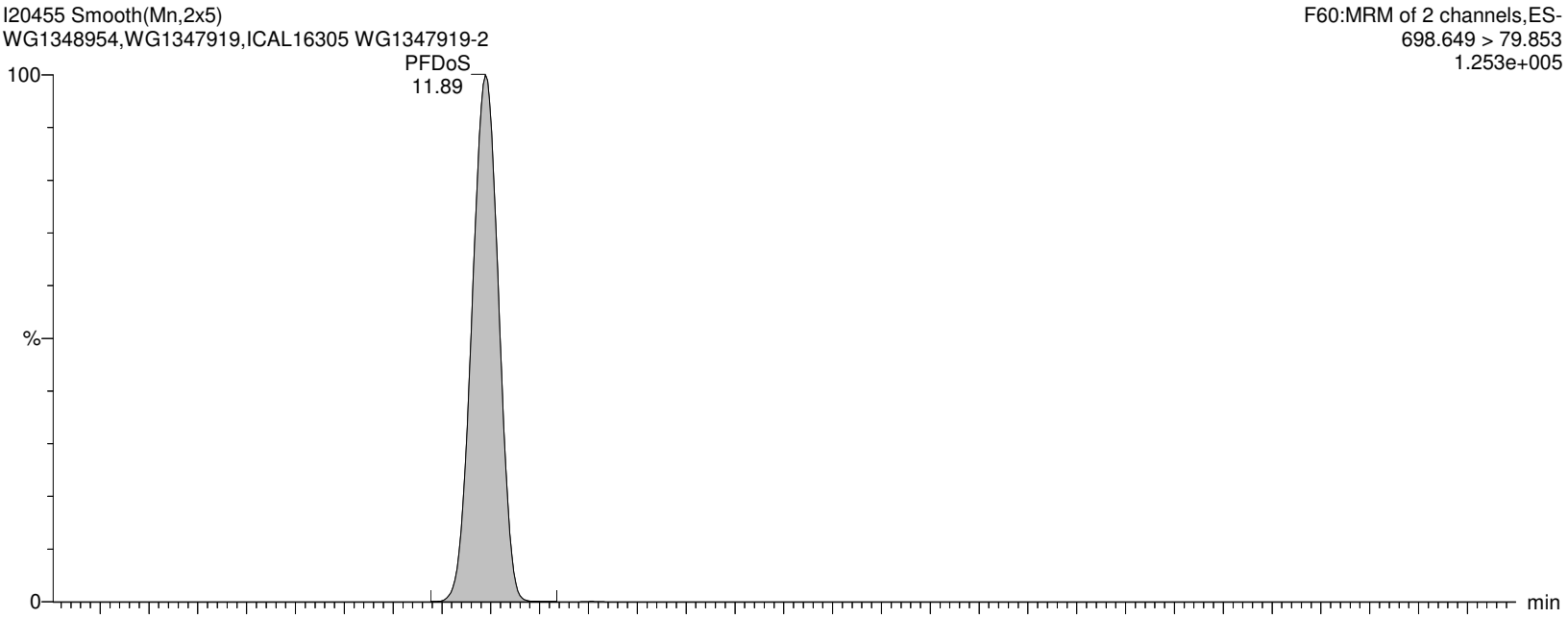

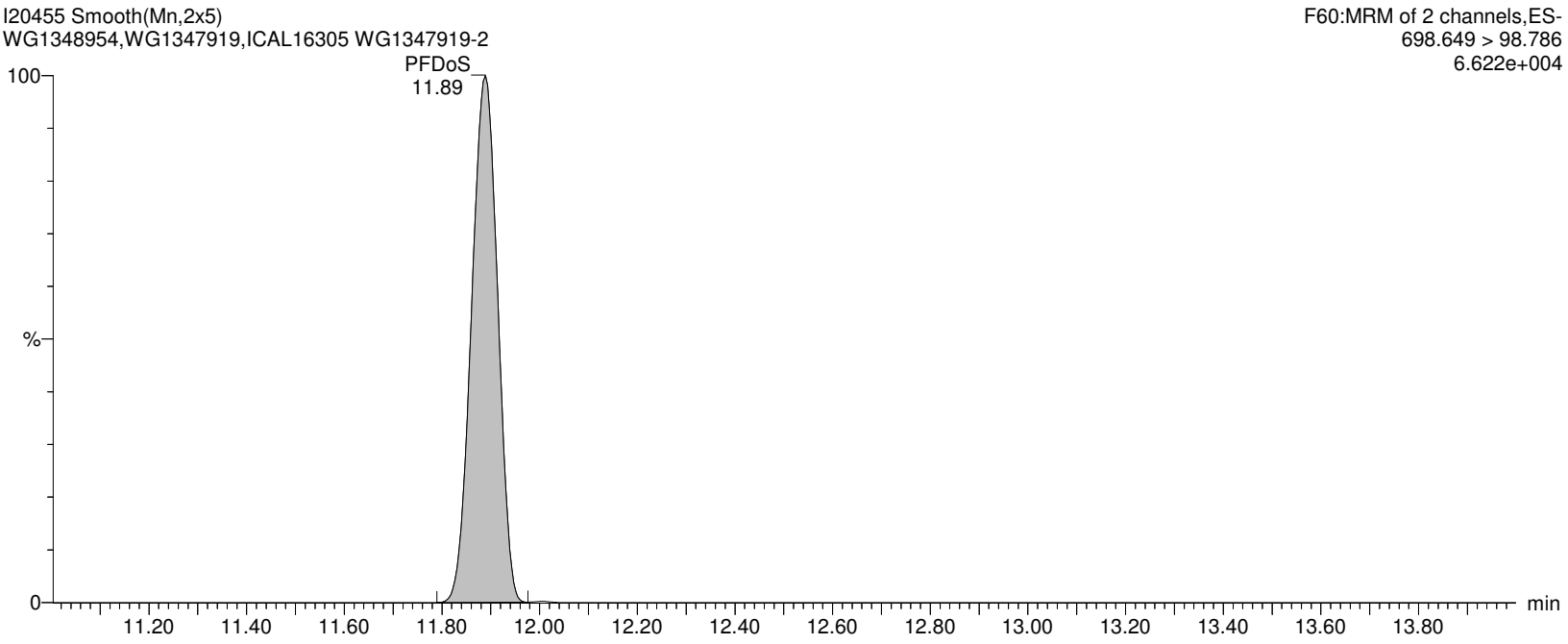

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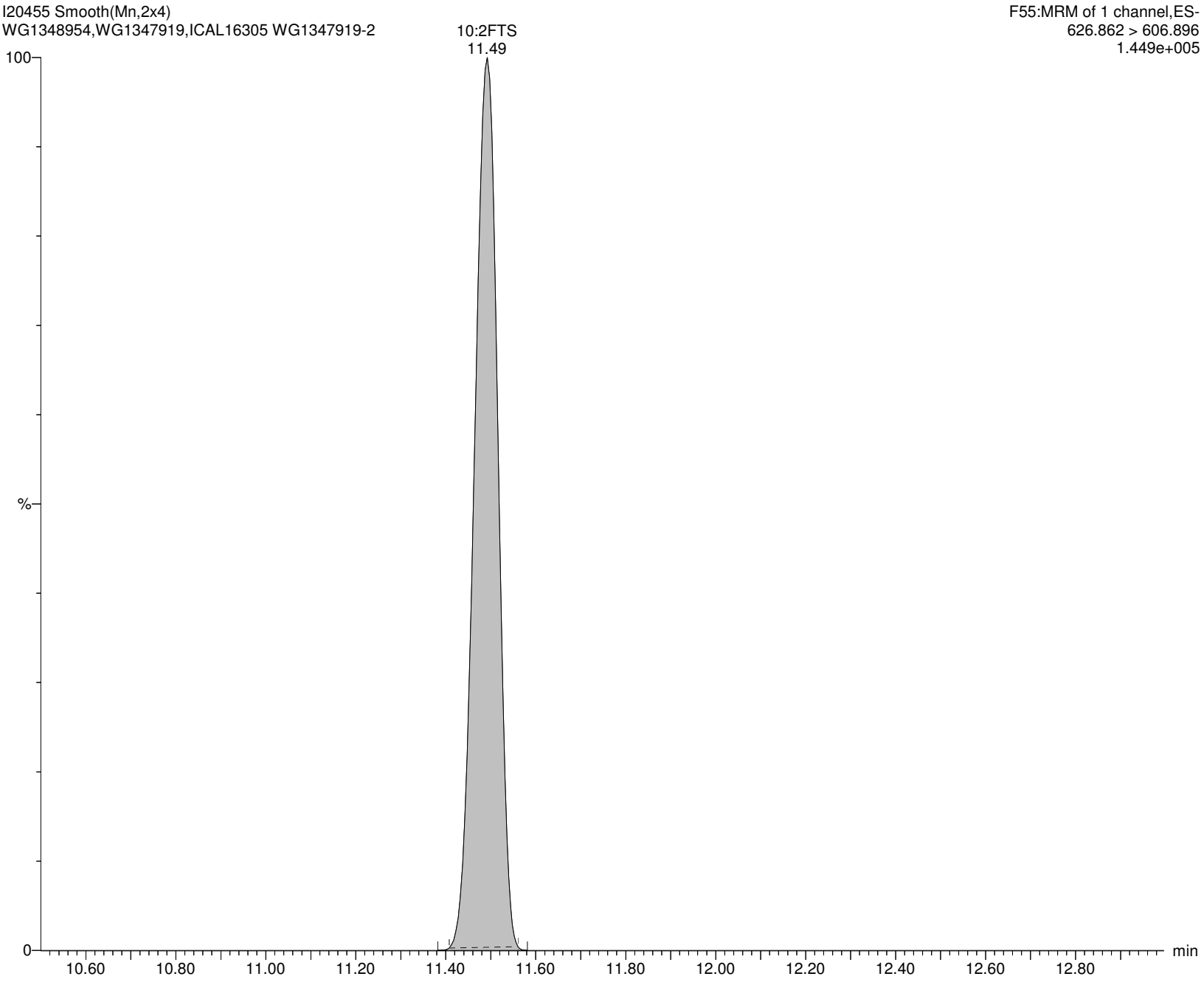

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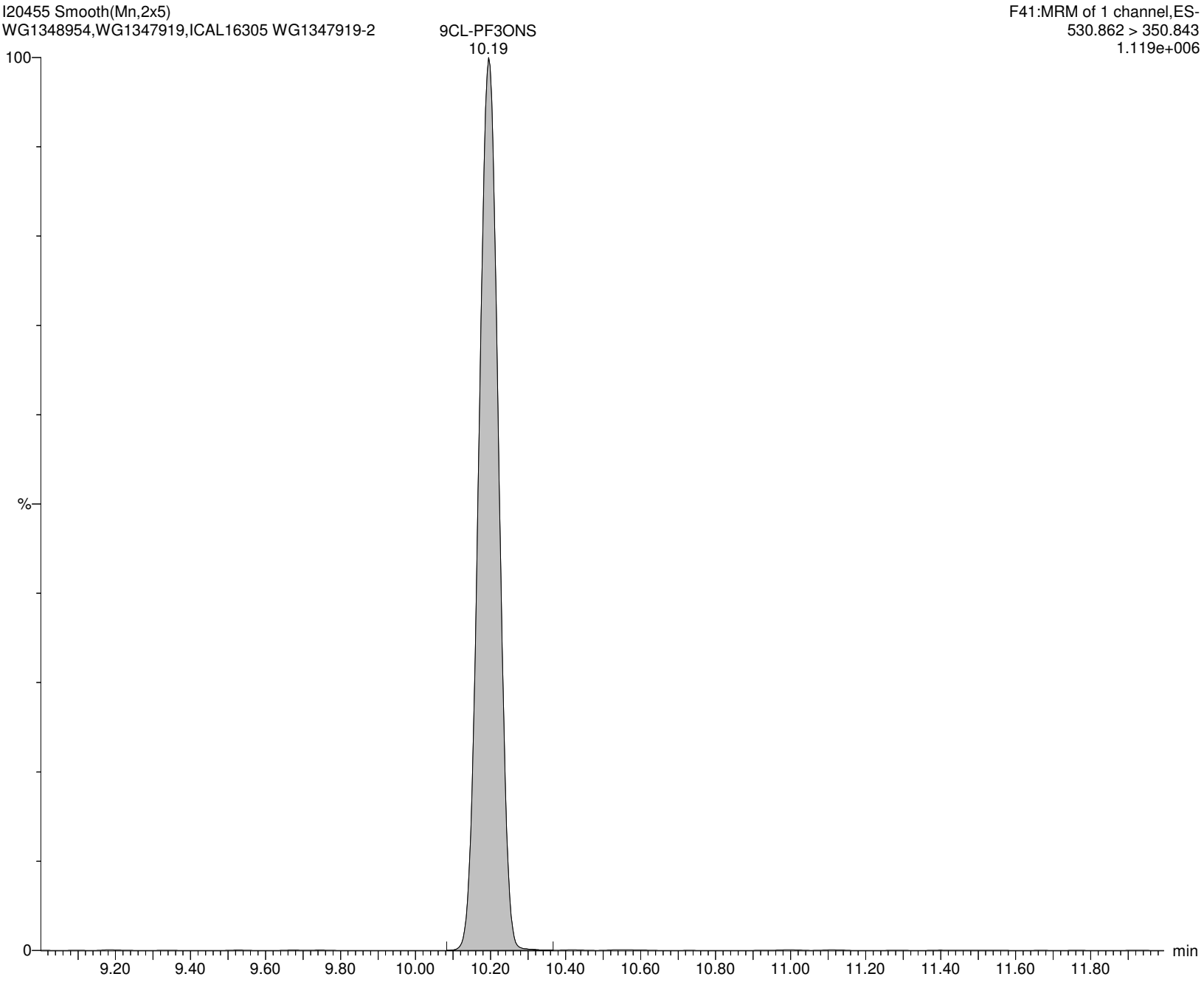
9CL-PF3ONS



all concentration units in (ng/mL)

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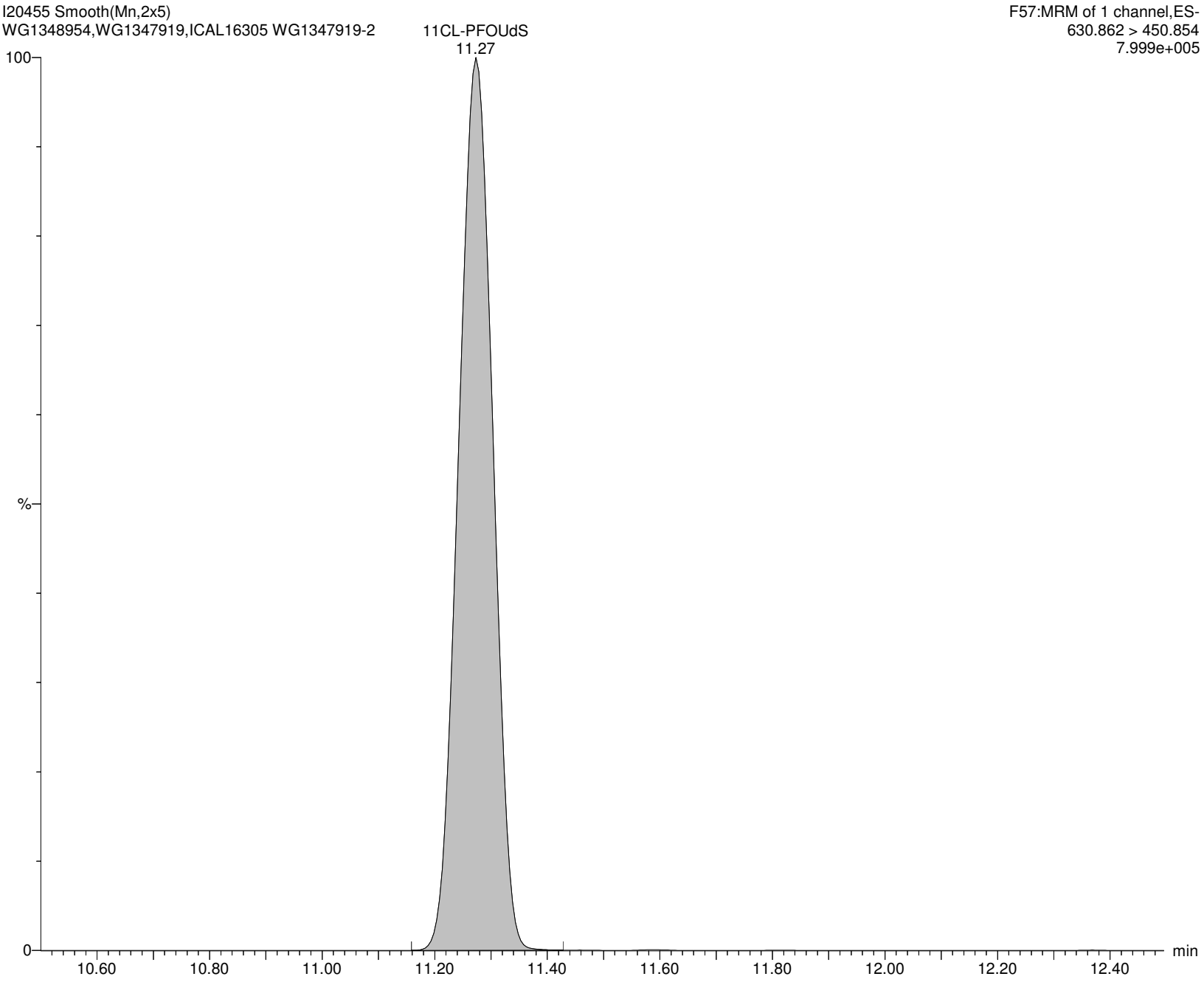
11CL-PFOUdS



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Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:42 Eastern Daylight Time

Method: C:\MassLynx\Data\2020\200309_537ISO.PRO\MethDB\537ISO_Q_191118_DOD_RT.mdb 07 Feb 2020 15:55:12
Calibration: C:\MassLynx\Data\2020\200309_537ISO.PRO\CurveDB\191118_ISO_ICAL.cdb 18 Nov 2019 14:41:42

ID: WG1347919-3
Name: I20456
Date: 11-Mar-2020
Time: 03:10:43
Description: WG1348954,WG1347919,ICAL16305
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.18	212.926 > 169.111	44177	M4	8.613		na	86.1
2	M3PFBA	INT STD	2.18	215.926 > 172.122	56014		12.089		na	120.9
3	MPFBA	INT STD	2.18	216.926 > 172.137	61427		10.077		na	100.8
4	PFPeA	2706-90-3	5.06	262.926 > 219.002	86175	M4	9.064		na	90.6
5	M5PFPEA	INT STD	5.05	267.989 > 223.081	98441		11.386		na	113.9
6	PFBS	375-73-5	5.69	298.926 > 79.923	13410		7.587	1.88	NO	85.7
7	M3PFBS	INT STD	5.69	301.989 > 80.254	12031		9.607		na	96.1
8	4:2FTS	757124-72-4	6.84	326.926 > 306.957	8639		8.662	2.24	NO	92.6
9	M2-4:2FTS	INT STD	6.84	329.117 > 309.079	9222		11.343		na	113.4
10	PFHxA	307-24-4	6.92	312.989 > 269.028	86904		8.512	17.97	NO	85.1
11	M5PFHxA	INT STD	6.92	317.989 > 273.045	110912		9.875		na	98.7
12	PFPeS	2706-91-4	7.23	348.926 > 80.251	9089		7.107	1.76	NO	75.6
13	PFHpA	375-85-9	8.15	362.926 > 319.014	115739		8.585	5.76	NO	85.8
14	M4PFHpA	INT STD	8.15	366.926 > 321.979	149462		9.990		na	99.9
15	br-PFHxS	355-46-4	8.09	398.926 > 80.295	1154	M5	1.271	2.54	NO	74.8
16	L-PFHxS	355-46-4	8.30	398.926 > 80.295	5739		5.991	1.10	NO	81.0
17	PFHxS	355-46-4		398.926 > 80.295	6894		7.263		na	
18	M3PFHxS	INT STD	8.30	401.926 > 80.317	7647		10.580		na	105.8
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.06	412.989 > 368.9	119076		8.712	10.10	NO	87.1
21	PFOA	335-67-1		412.989 > 368.9	119076		8.712		na	
22	M8PFOA	INT STD	9.06	420.989 > 375.979	148850		10.368		na	103.7
23	M2PFOA	INT STD	9.06	415.032 > 369.968	146724		13.879		na	138.8
24	6:2FTS	27619-97-2	9.02	426.989 > 406.921	6899		9.024	10.23	NO	95.0
25	M2-6:2FTS	INT STD	9.02	428.989 > 408.917	9626		12.114		na	121.1
26	PFHpS	375-92-8	9.14	448.926 > 80.257	5353		8.288	0.91	YES	87.2
27	PFNA	375-95-1	9.81	462.989 > 418.931	109590		8.660	4.52	NO	86.6
28	M9PFNA	INT STD	9.81	472.053 > 426.947	154475		10.935		na	109.4
29	br-PFOS	1763-23-1	9.67	498.989 > 80.294	1808	M5	1.409	5.94	NO	70.4
30	L-PFOS	1763-23-1	9.86	498.989 > 80.294	5947		6.178	1.55	YES	84.6
31	PFOS	1763-23-1		498.989 > 80.294	7755		7.587		na	
32	M4PFOS	INT STD	9.86	503.032 > 80.306	8947		12.810		na	128.1
33	M8PFOS	INT STD	9.86	507.053 > 80.294	9808		10.684		na	106.8
34	PFDA	335-76-2	10.45	513.053 > 468.906	105377		8.620	6.72	NO	86.2
35	M2PFDA	INT STD	10.45	515.053 > 469.934	136498		15.460		na	154.6
36	M6PFDA	INT STD	10.45	519.053 > 473.931	142504		10.102		na	101.0
37	8:2FTS	39108-34-4	10.45	526.926 > 506.818	5804		9.272		na	96.6
38	M2-8:2FTS	INT STD	10.45	529.053 > 508.945	5927		12.715		na	127.1
39	PFNS	68259-12-1	10.48	548.989 > 80.249	7623		8.356	1.28	NO	87.0

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:42 Eastern Daylight Time

ID: WG1347919-3
Name: I20456
Date: 11-Mar-2020
Time: 03:10:43
Description: WG1348954,WG1347919,ICAL16305
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:RS
Inlet Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.85	573.096 > 418.987	15130		9.417		na	94.2
41	br-NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	L-NMeFOSAA	2355-31-9	10.85	570.053 > 418.917	14292		10.136	2.60	NO	101.4
43	NMeFOSAA	2355-31-9		570.053 > 418.917	14292		10.136		na	
44	PFUnA	2058-94-8	11.01	562.989 > 518.903	112419		8.434	8.24	NO	84.3
45	M7-PFUDA	INT STD	11.01	570.053 > 524.923	139383		11.137		na	111.4
46	PFDS	335-77-3	11.02	598.926 > 80.314	5522		8.468	1.03	NO	87.8
47	FOSA	754-91-6	10.91	497.989 > 78.245	16324		8.672	158.69	NO	86.7
48	M8FOSA	INT STD	10.91	506.053 > 78.286	17715		5.311		na	53.1
49	d5-NEtFOSAA	INT STD	11.14	589.117 > 418.929	12206		8.601		na	86.0
50	br-NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
51	L-NEtFOSAA	2991-50-6	11.15	583.989 > 418.927	10556	M4	9.161	2.56	NO	91.6
52	NEtFOSAA	2991-50-6		583.989 > 418.927	10556		9.161		na	
53	PFDoA	307-55-1	11.49	612.989 > 568.967	103108		9.024	13.63	NO	90.2
54	MPFDOA	INT STD	11.49	614.989 > 569.92	134897		9.608		na	96.1
55	PFTrDA	72629-94-8	11.91	663.053 > 618.969	93490		10.230	10.73	NO	102.3
56	PFTA	376-06-7	12.27	713.053 > 668.976	74366		9.085	9.52	NO	90.9
57	M2PFTEDA	INT STD	12.27	715.053 > 669.945	102211		9.165		na	91.7
58	M3HFPO-DA	INT STD	7.34	331.989 > 286.995	5973		94.950		na	47.5
59	HFPO-DA	13252-13-6	7.34	284.819 > 169.094	9434		190.237	2.65	YES	95.1
60	ADONA	958445-44-8	8.32	376.926 > 251.005	208567		10.658		na	112.6
61	PFHxDA		12.74	813.053 > 769.005	81675		15.201		na	152.0
62	PFODA		12.98	912.989 > 869.032	33542		8.490		na	84.9
63	M2PFHxDA		12.74	815.372 > 770.158	14730		6.205		na	62.0
64	PFDoS		11.90	698.649 > 79.853	8249		12.409	1.95	YES	124.1
65	10:2FTS		11.51	626.862 > 606.896	7955		13.337		na	138.3
66	9CL-PF3ONS		10.22	530.862 > 350.843	67177		10.422		na	111.8
67	11CL-PFOUdS		11.28	630.862 > 450.854	55843		10.277		na	109.1

all concentration units in (ng/mL)

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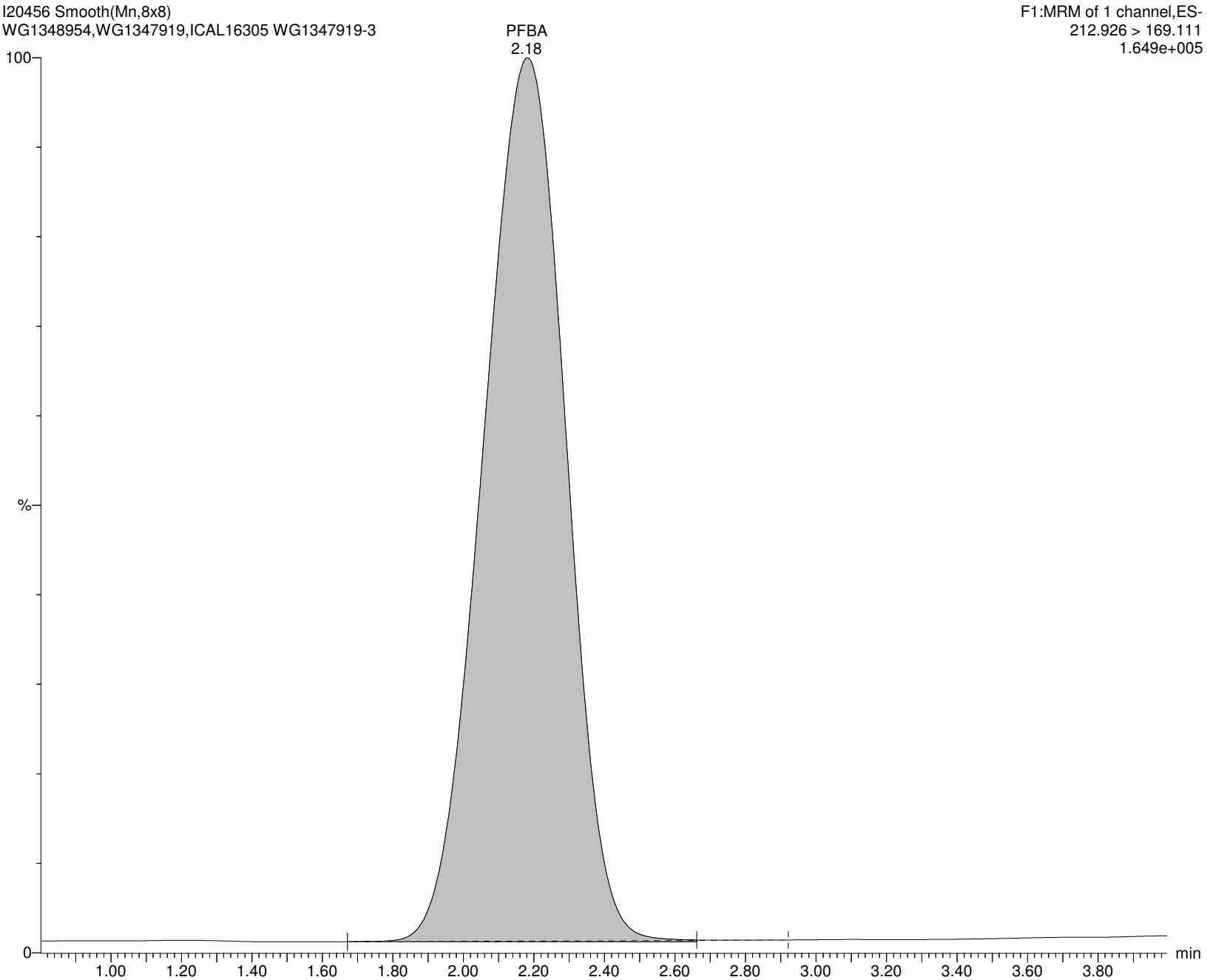

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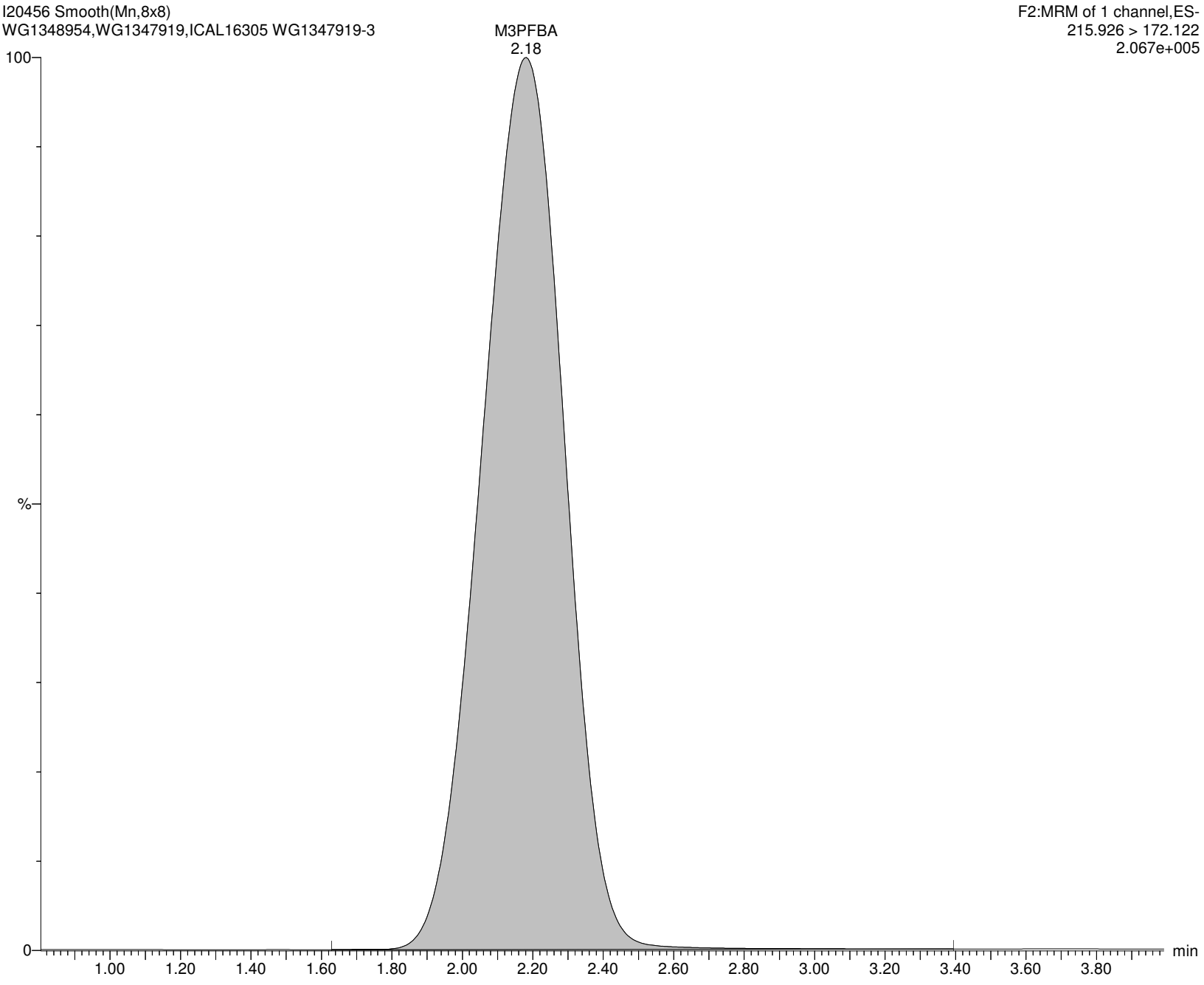

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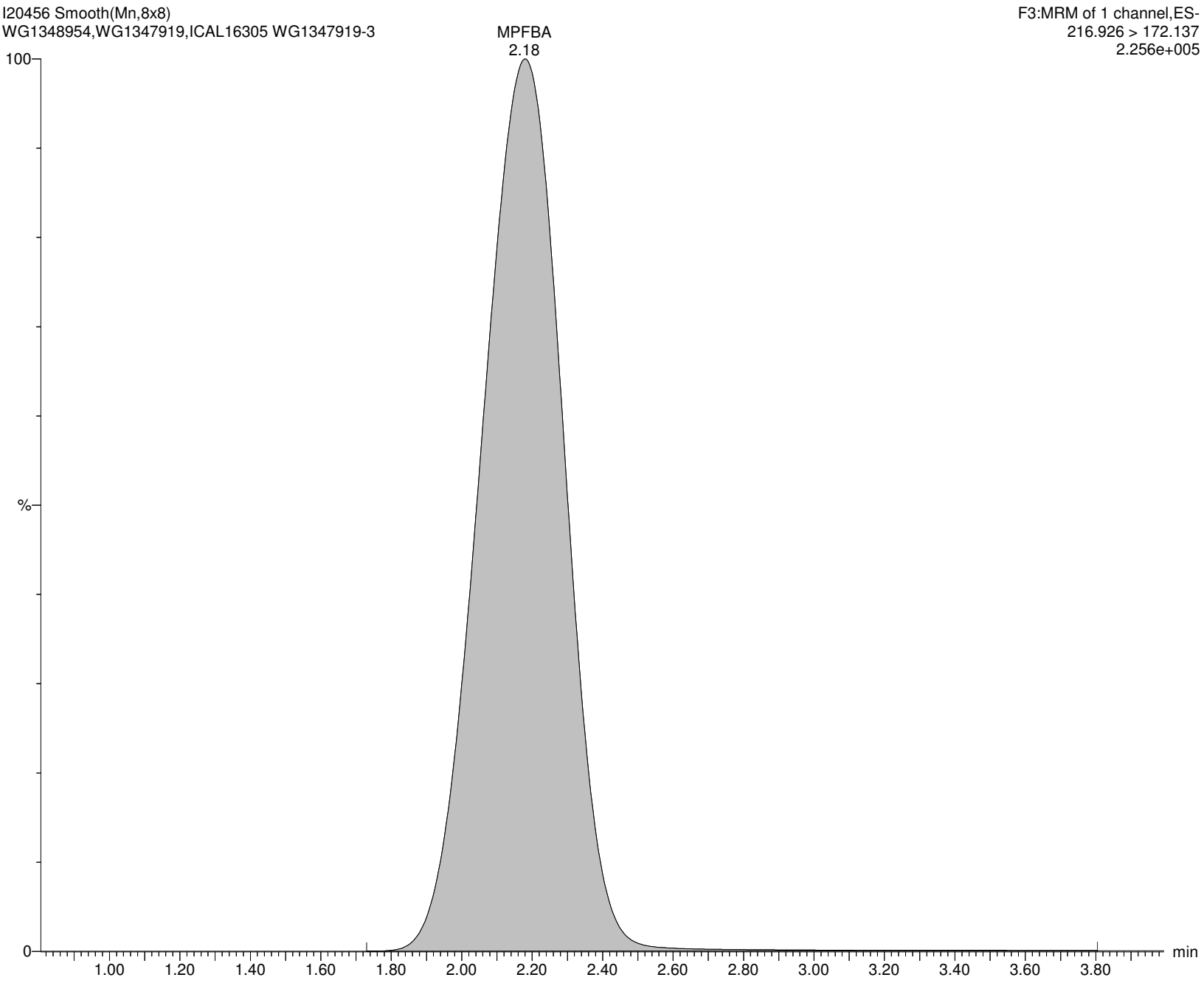
MPFBA



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User: LCMS02:RS
Vial: 2:B,1
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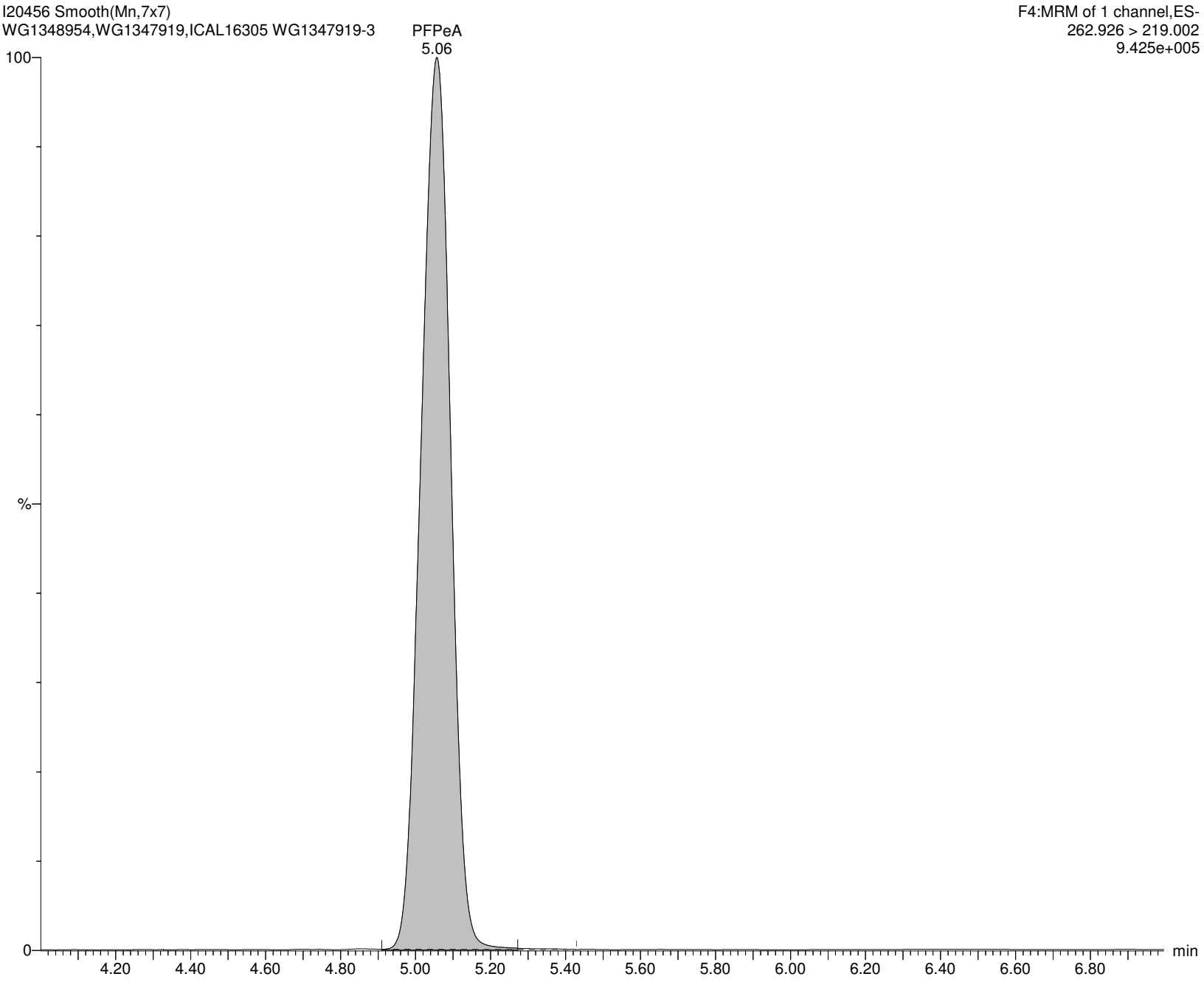

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:42 Eastern Daylight Time

Name: I20456
ID: WG1347919-3
Date: 11-Mar-2020
Time: 03:10:43
Description: WG1348954,WG1347919,ICAL16305
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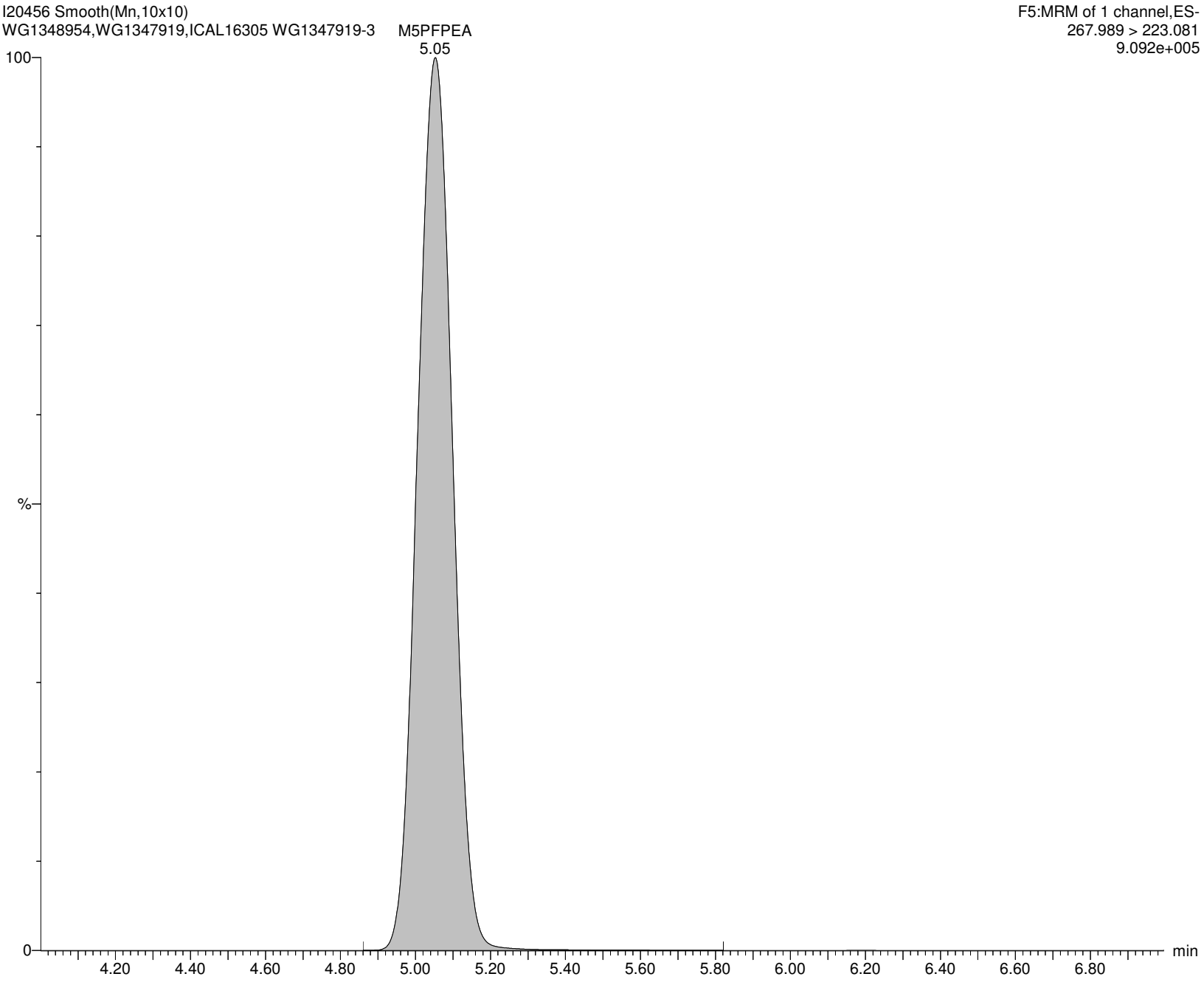

all concentration units in (ng/mL)

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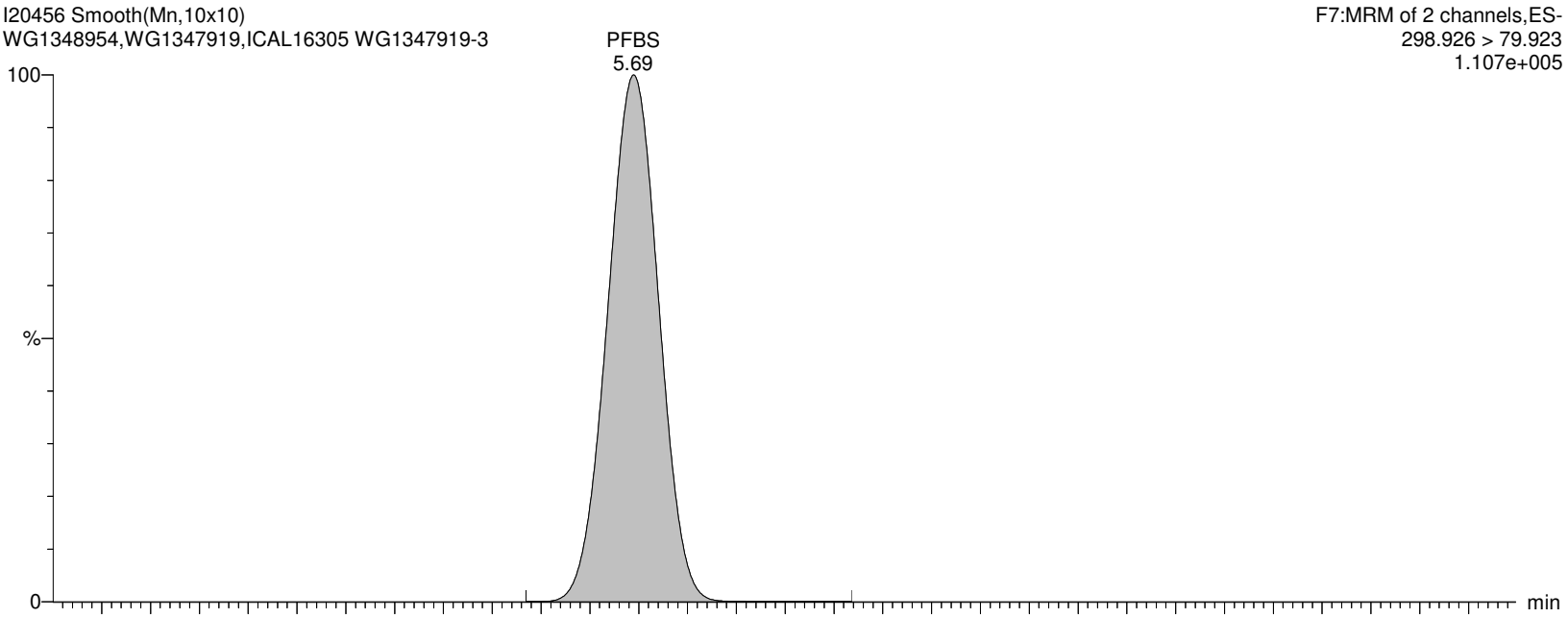

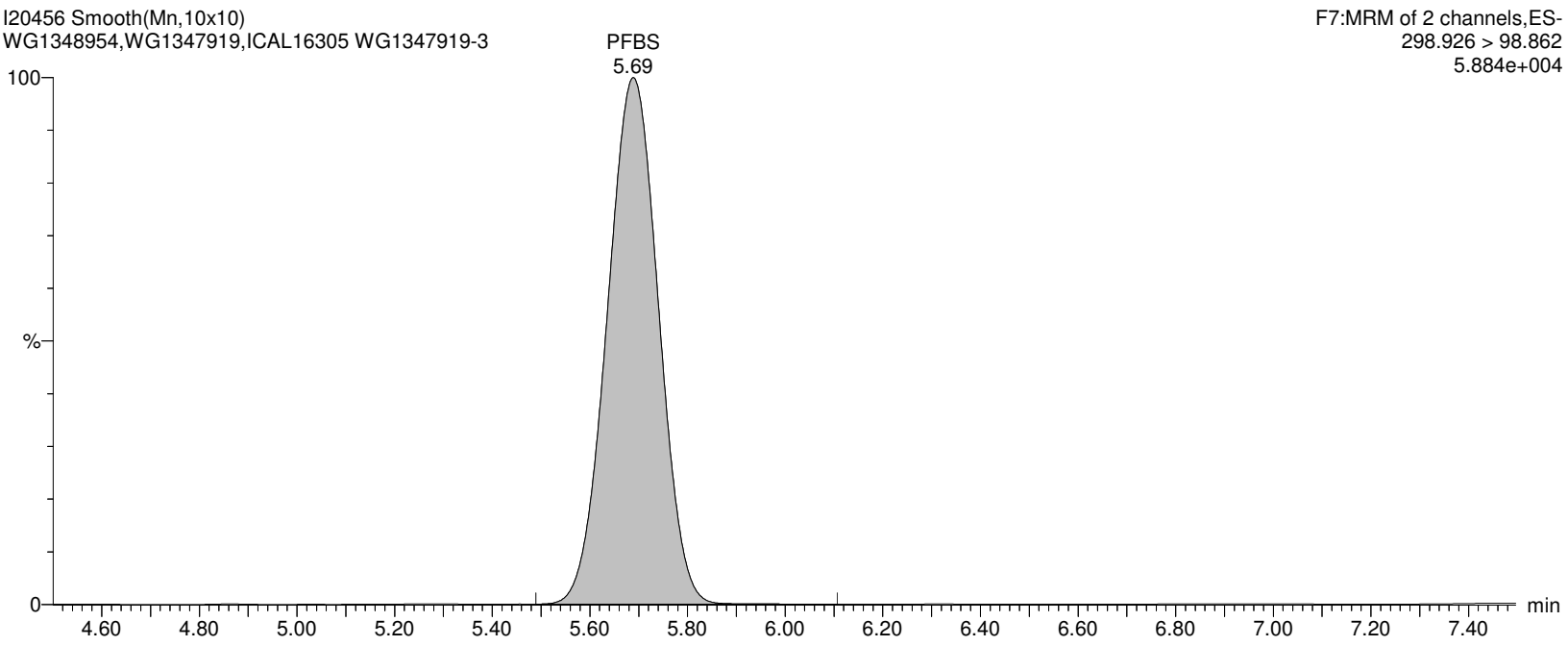

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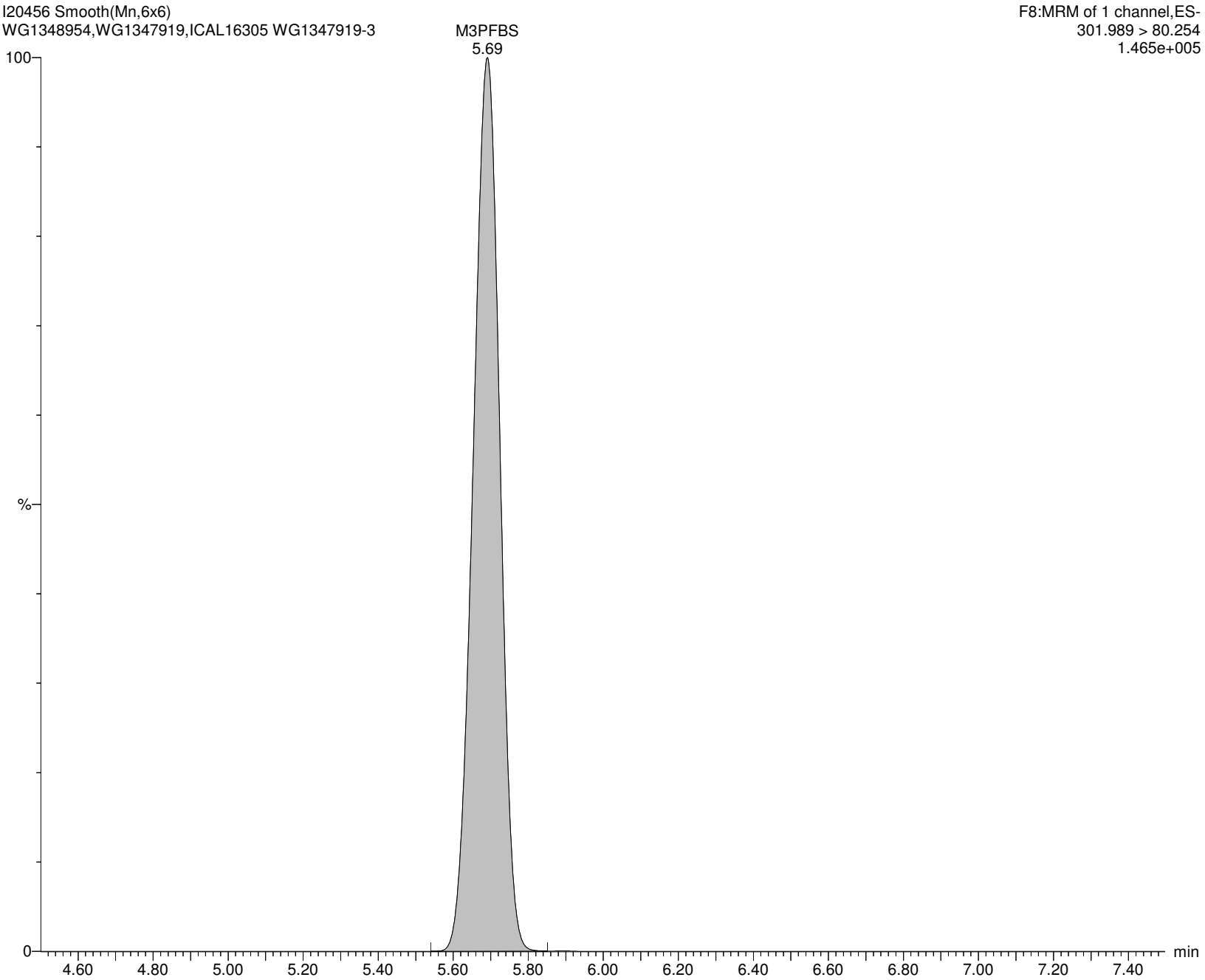

all concentration units in (ng/mL)

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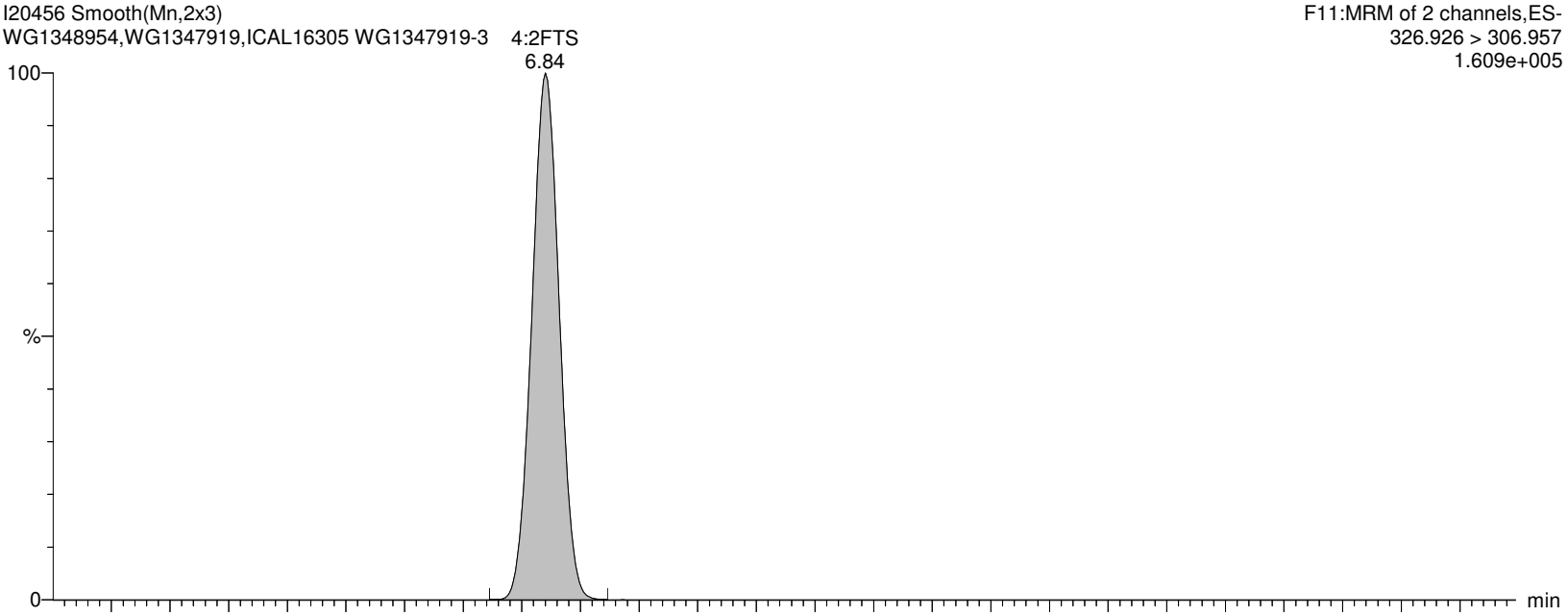
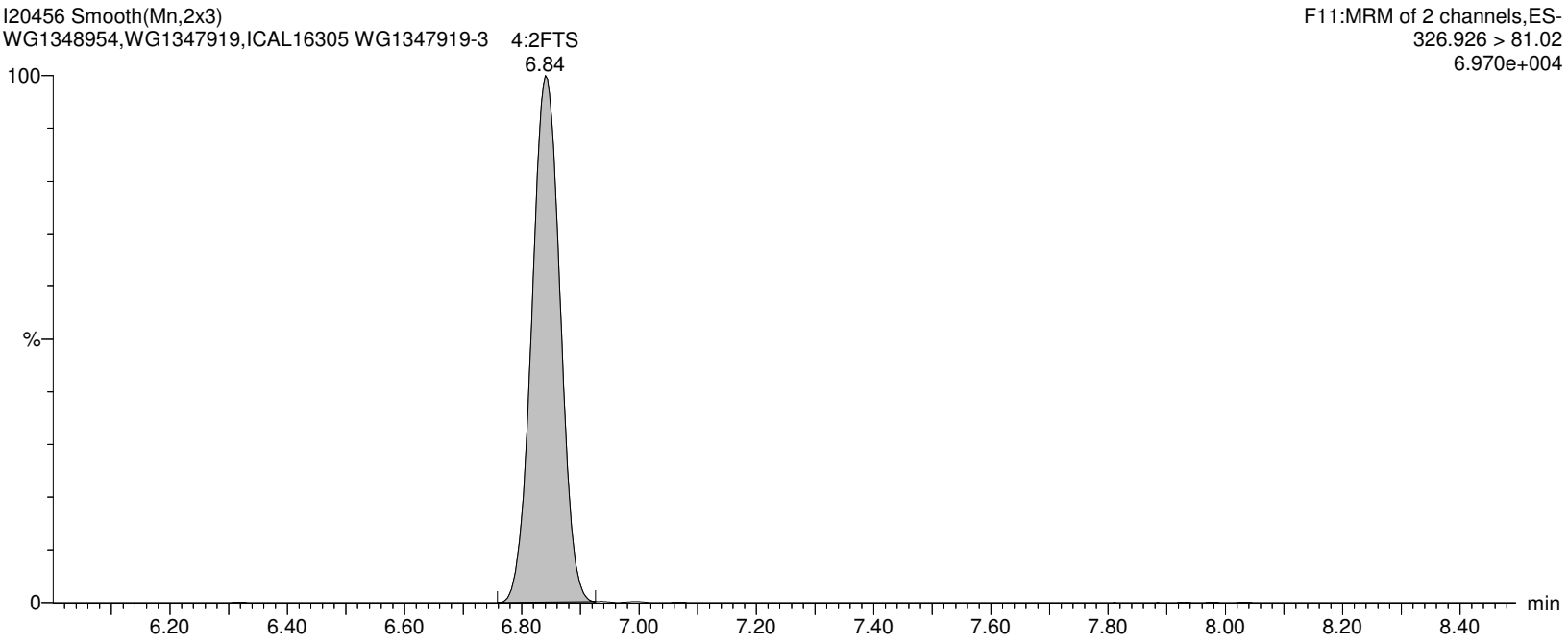
4:2FTS





all concentration units in (ng/mL)

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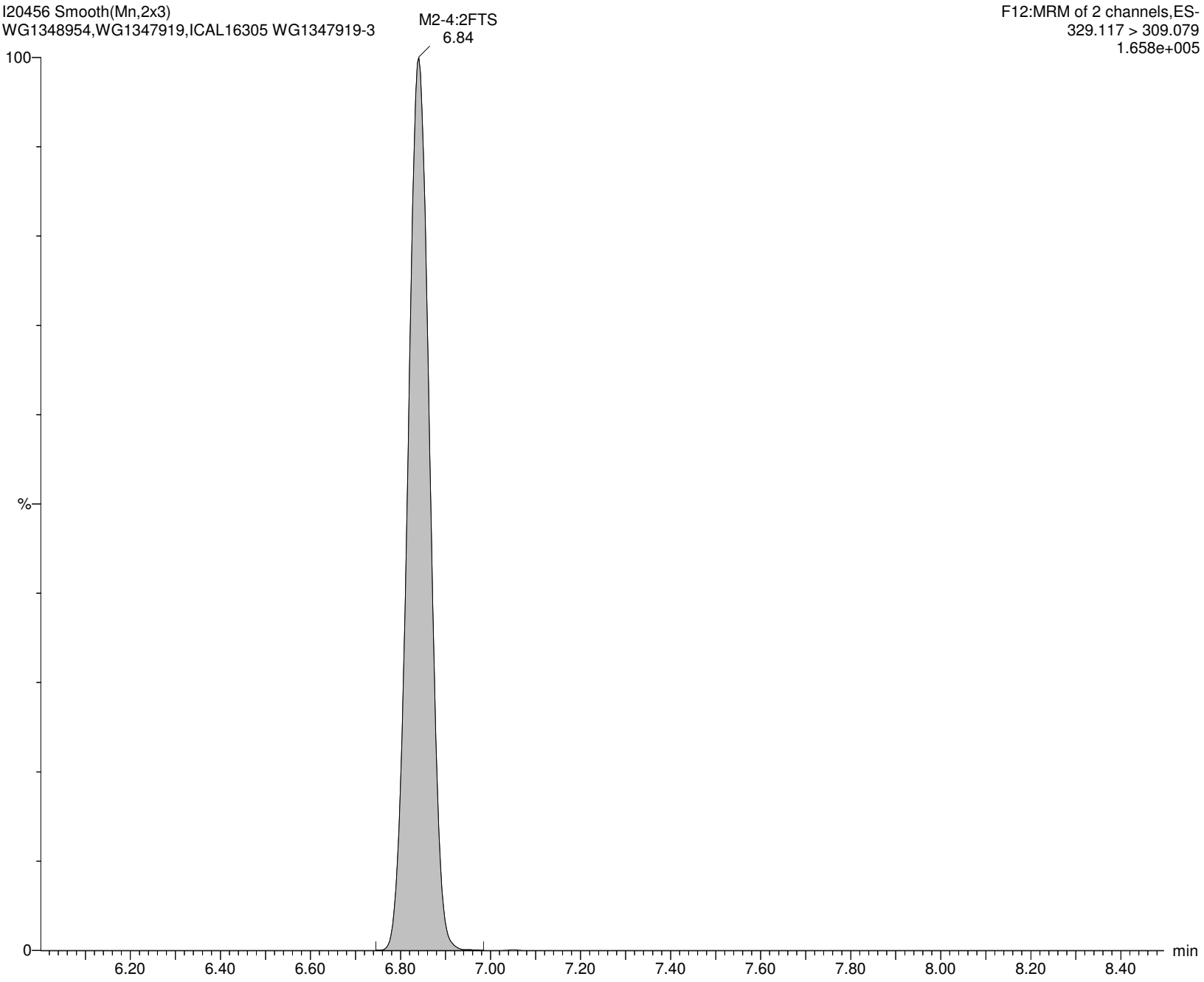

all concentration units in (ng/mL)

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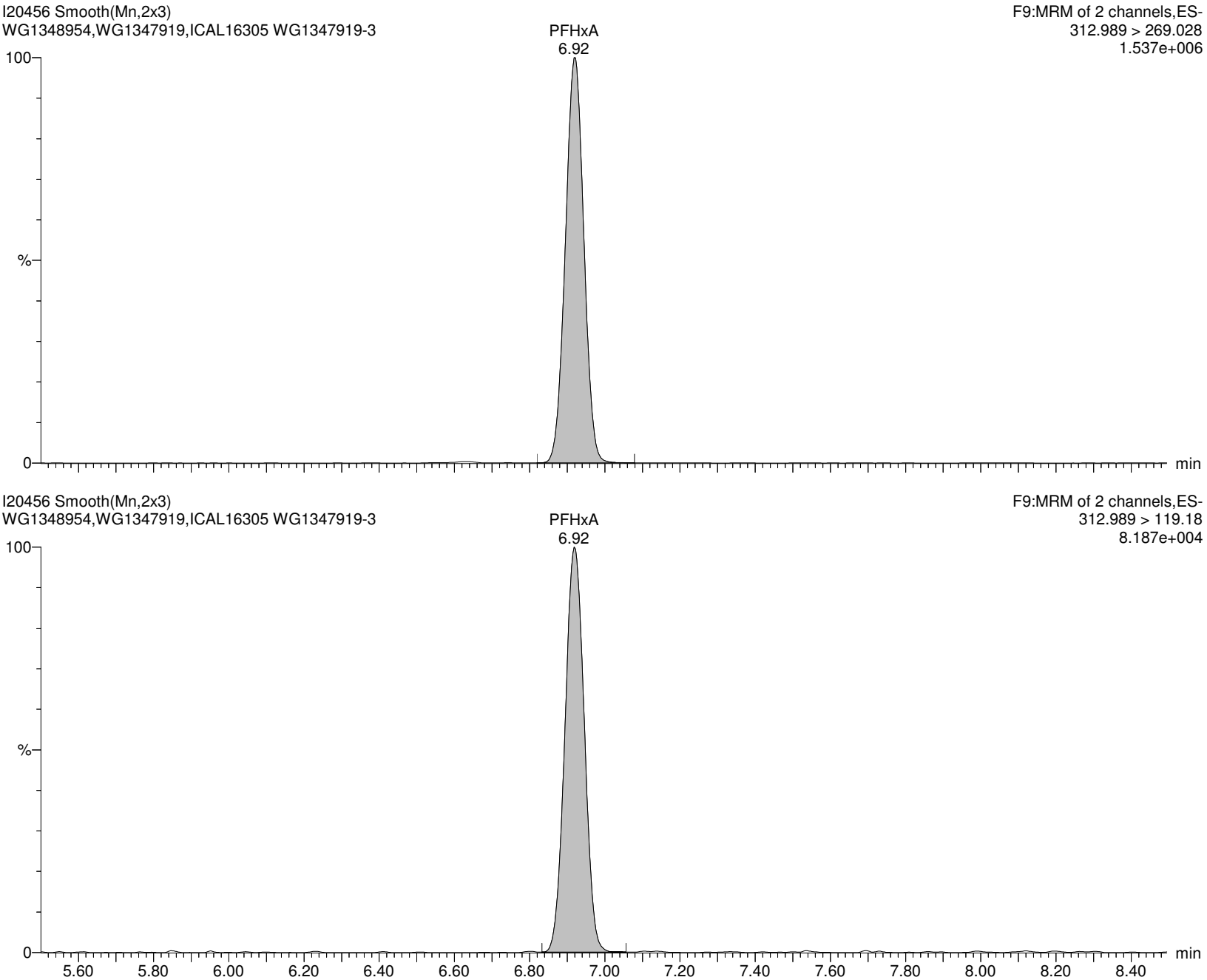

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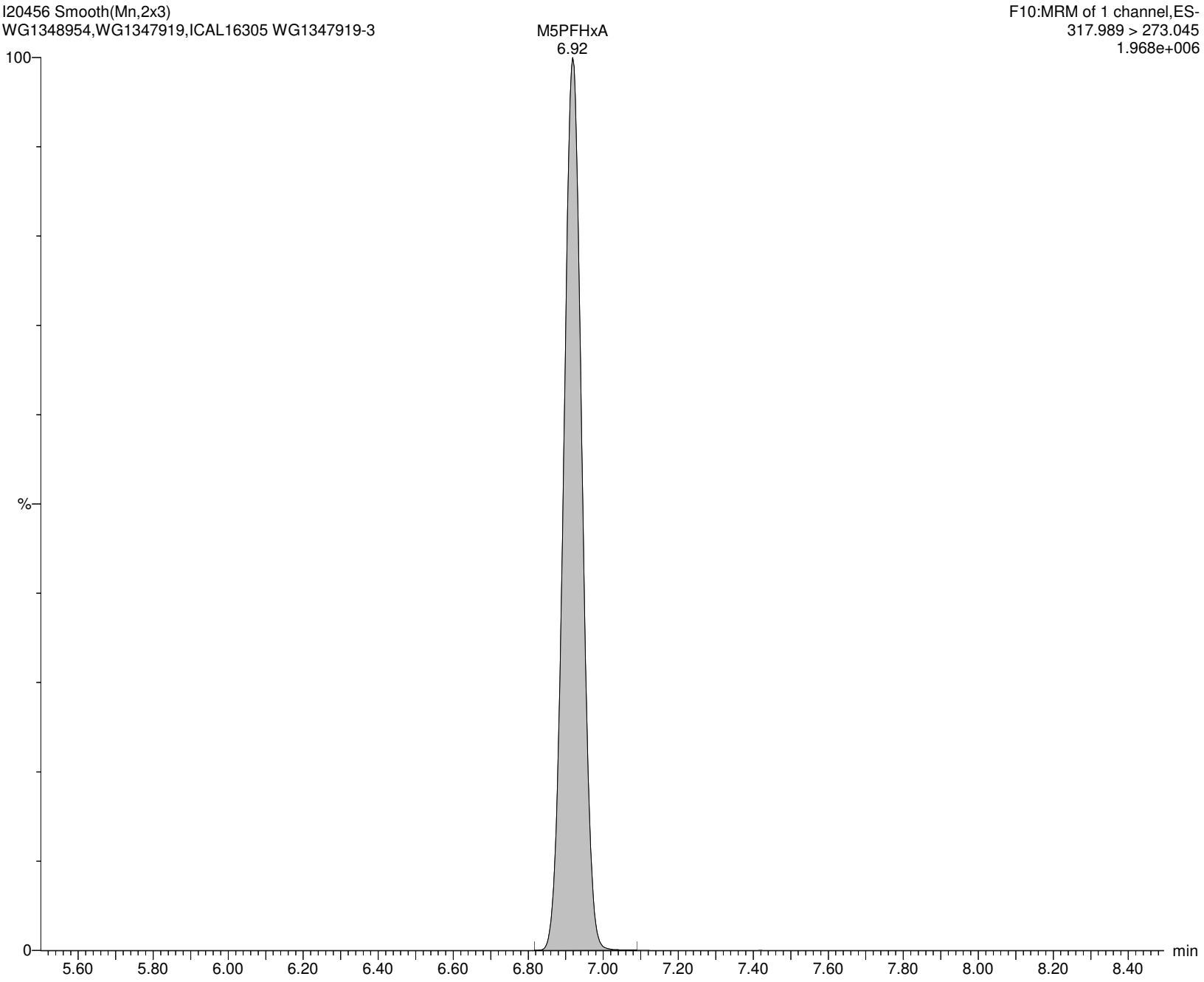

all concentration units in (ng/mL)

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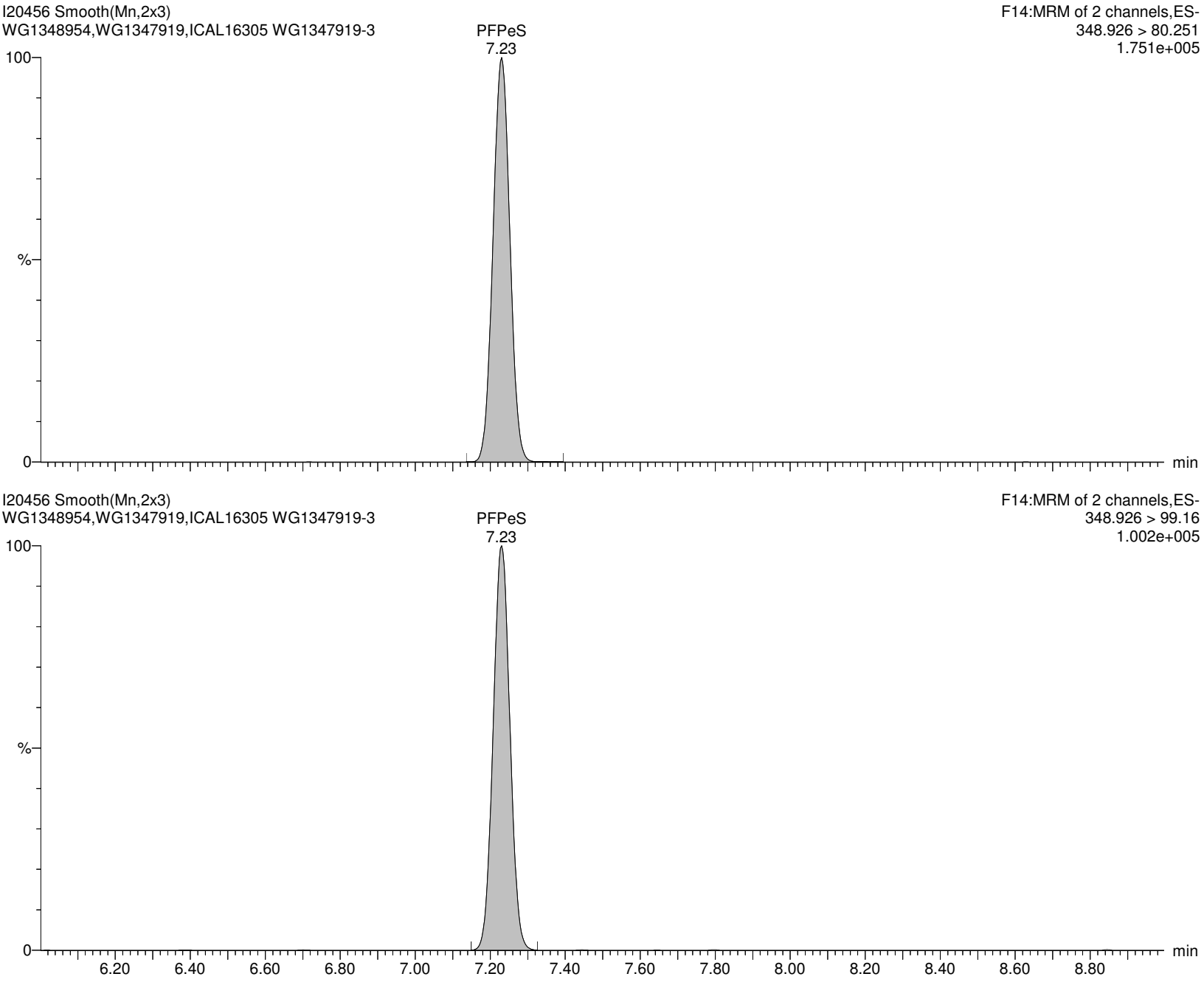

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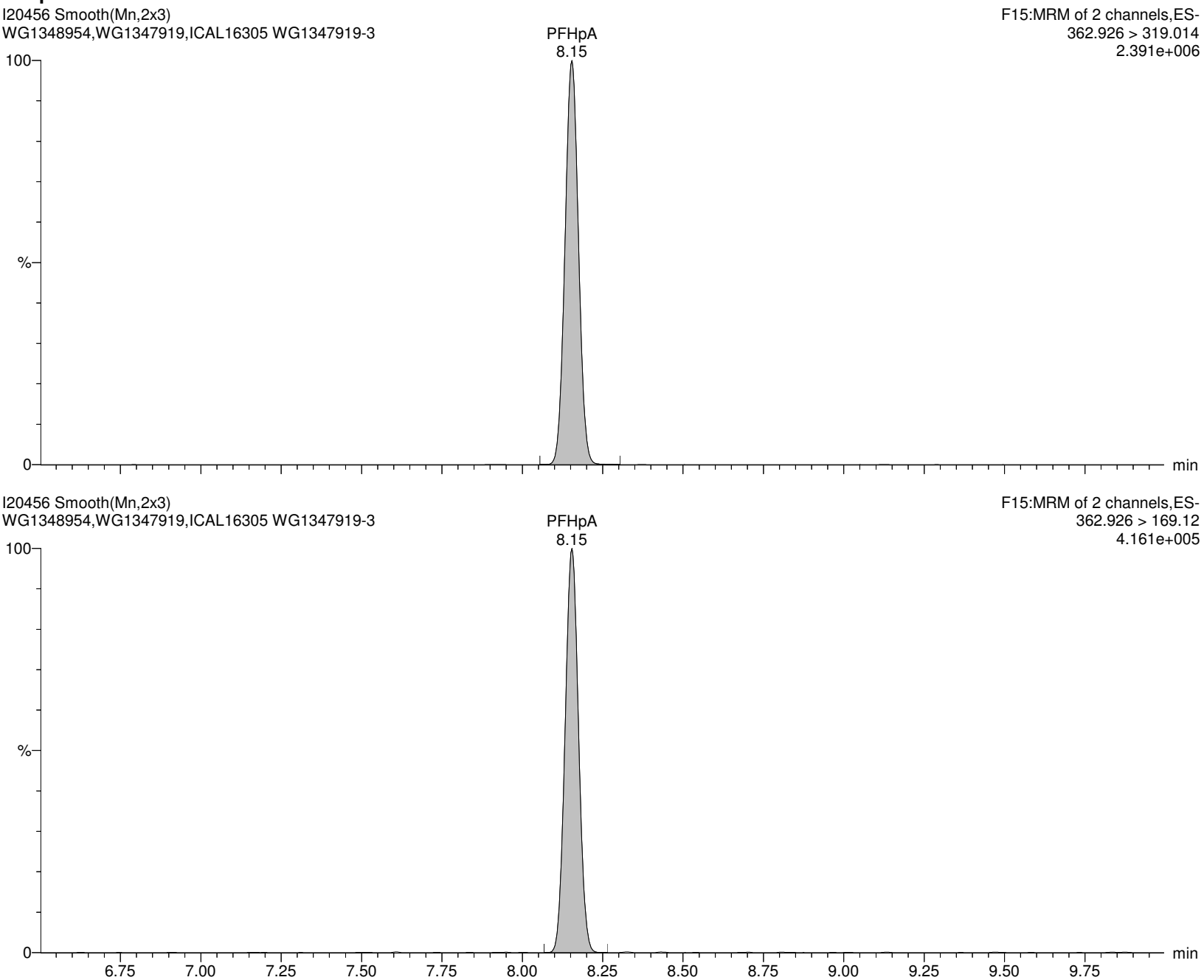

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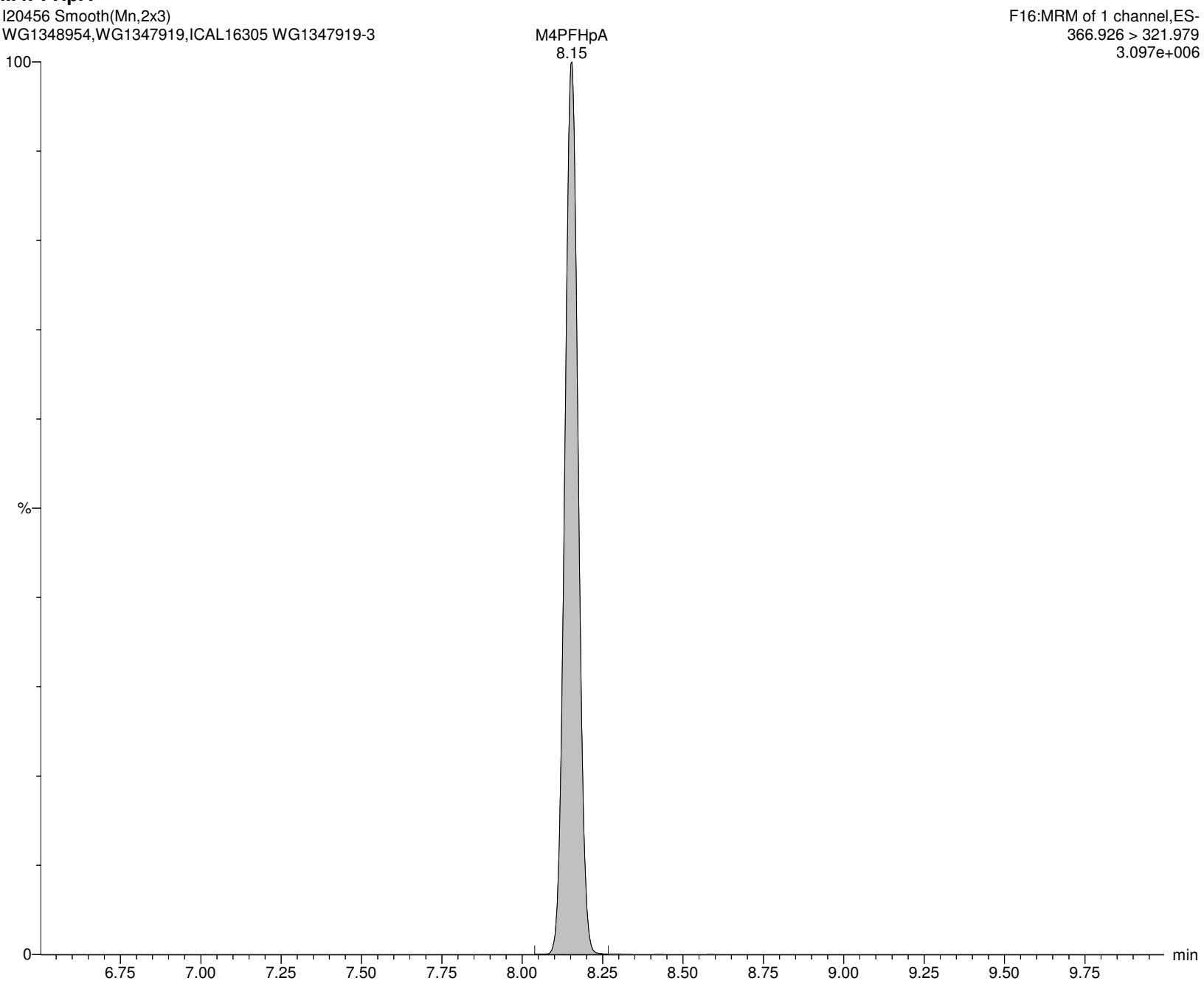

all concentration units in (ng/mL)

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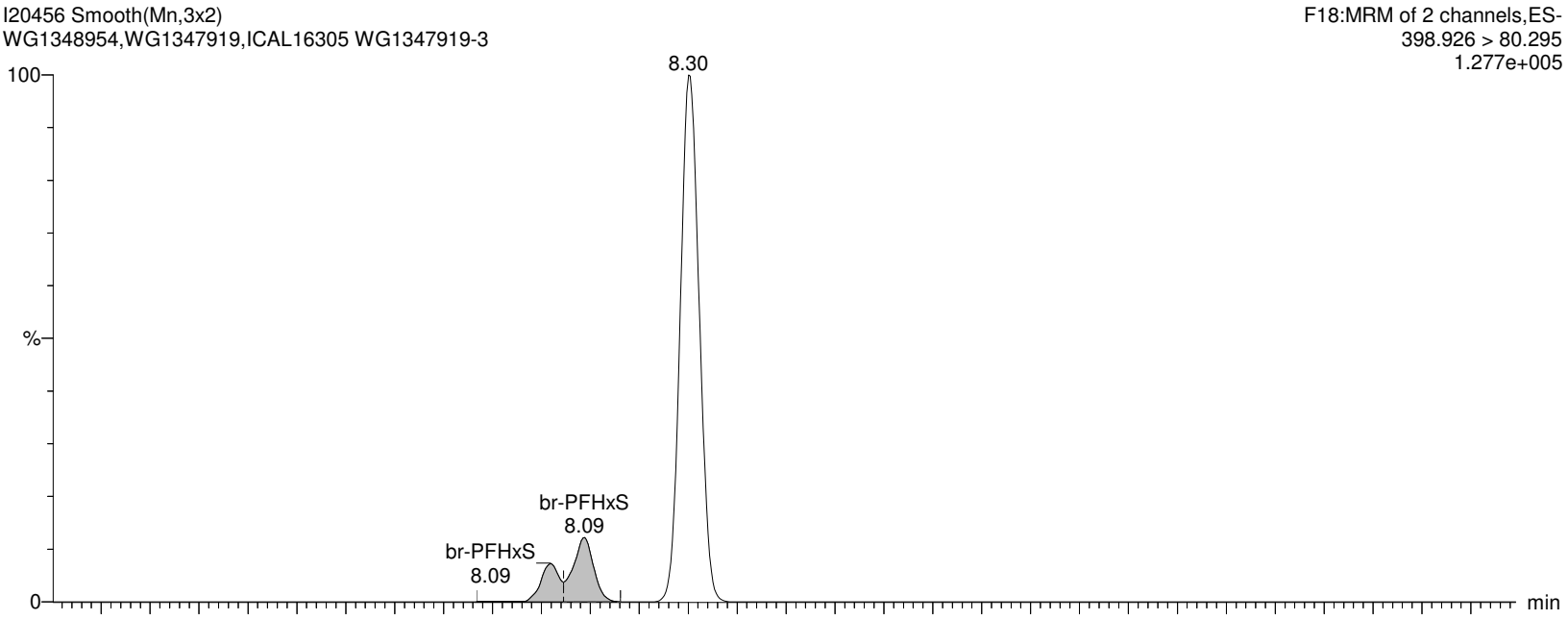

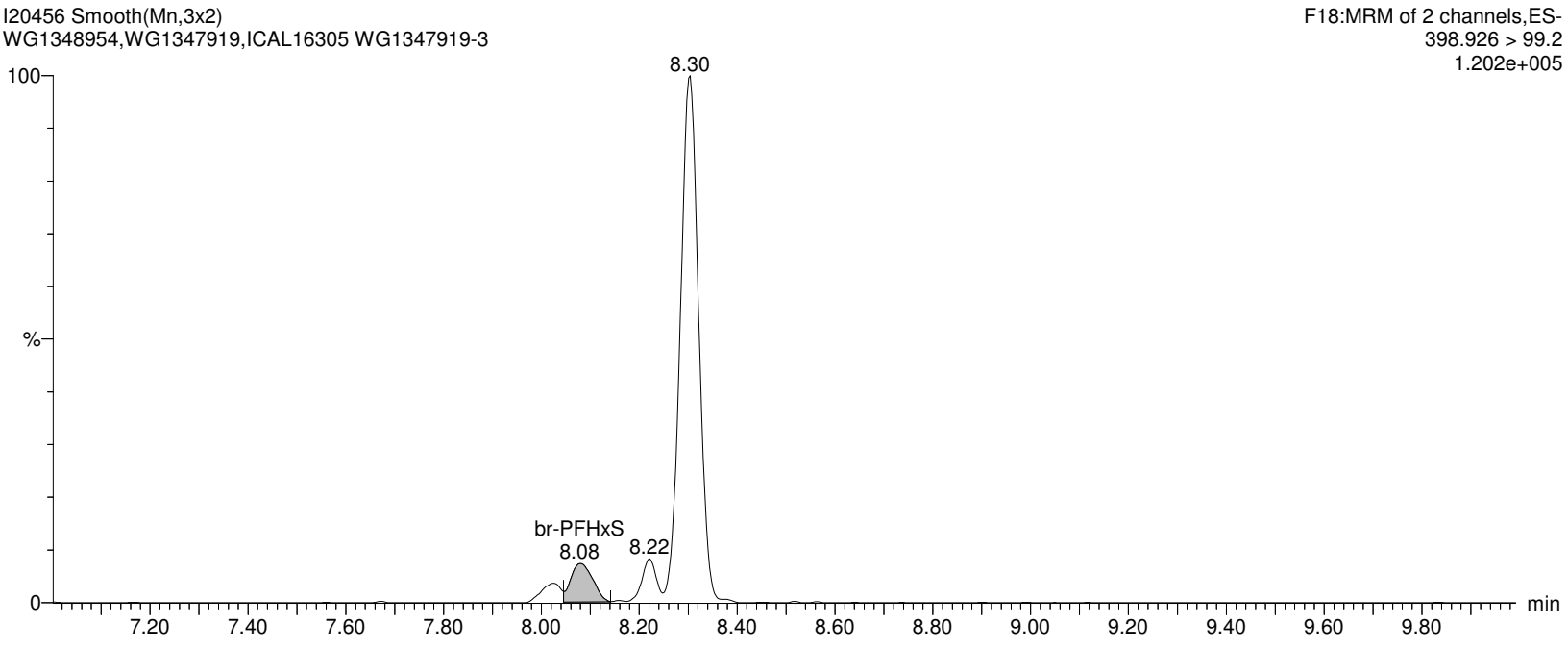

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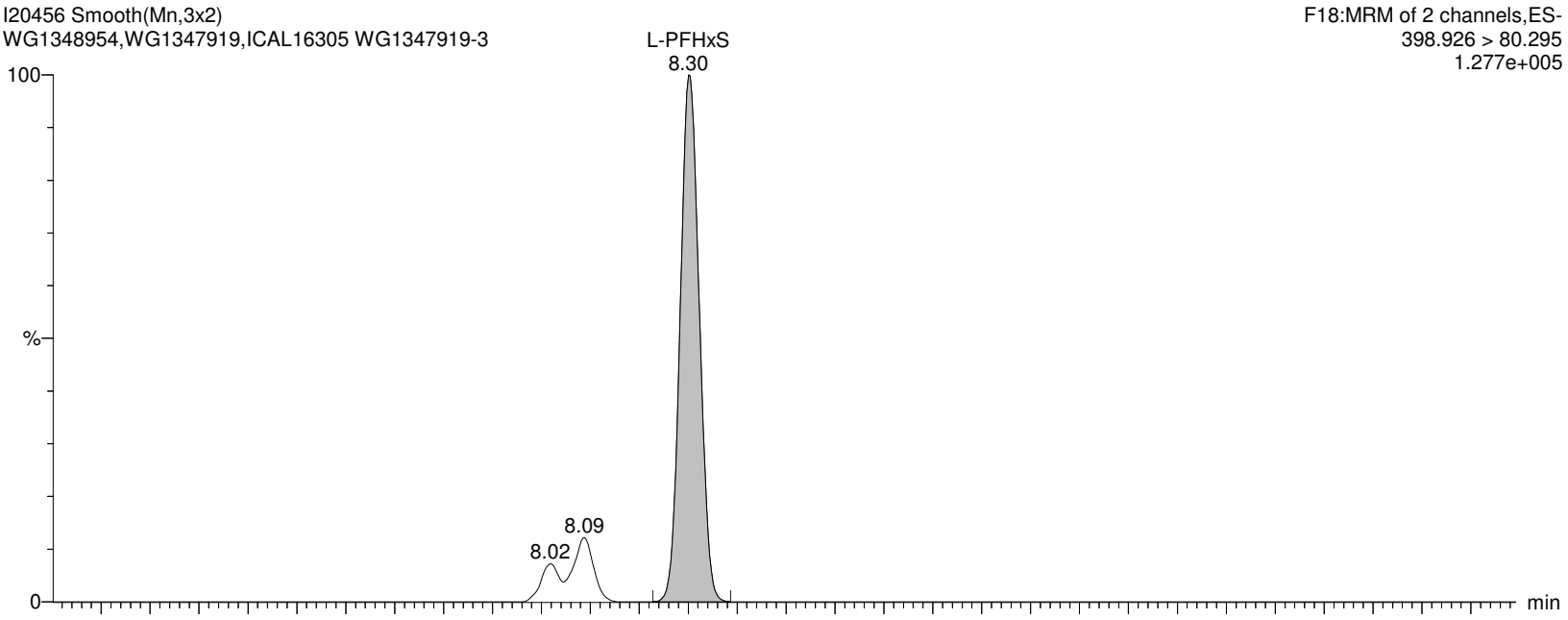

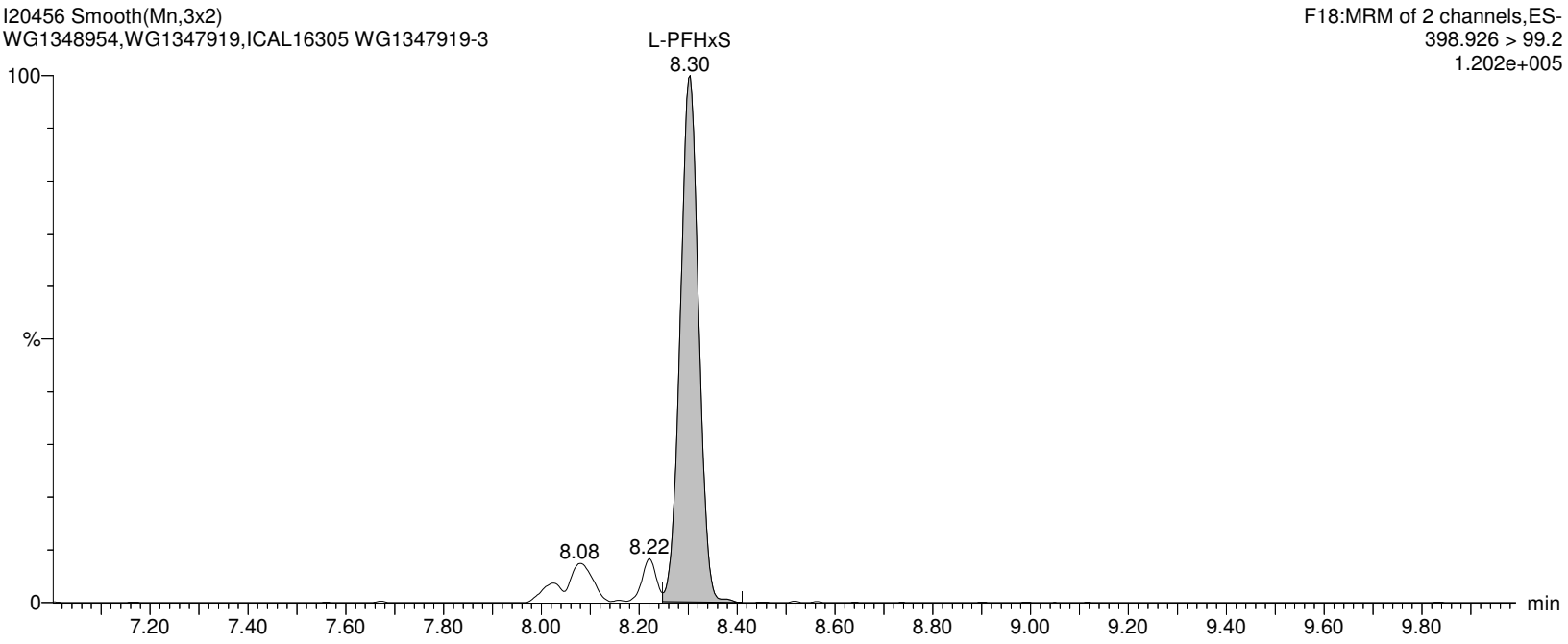

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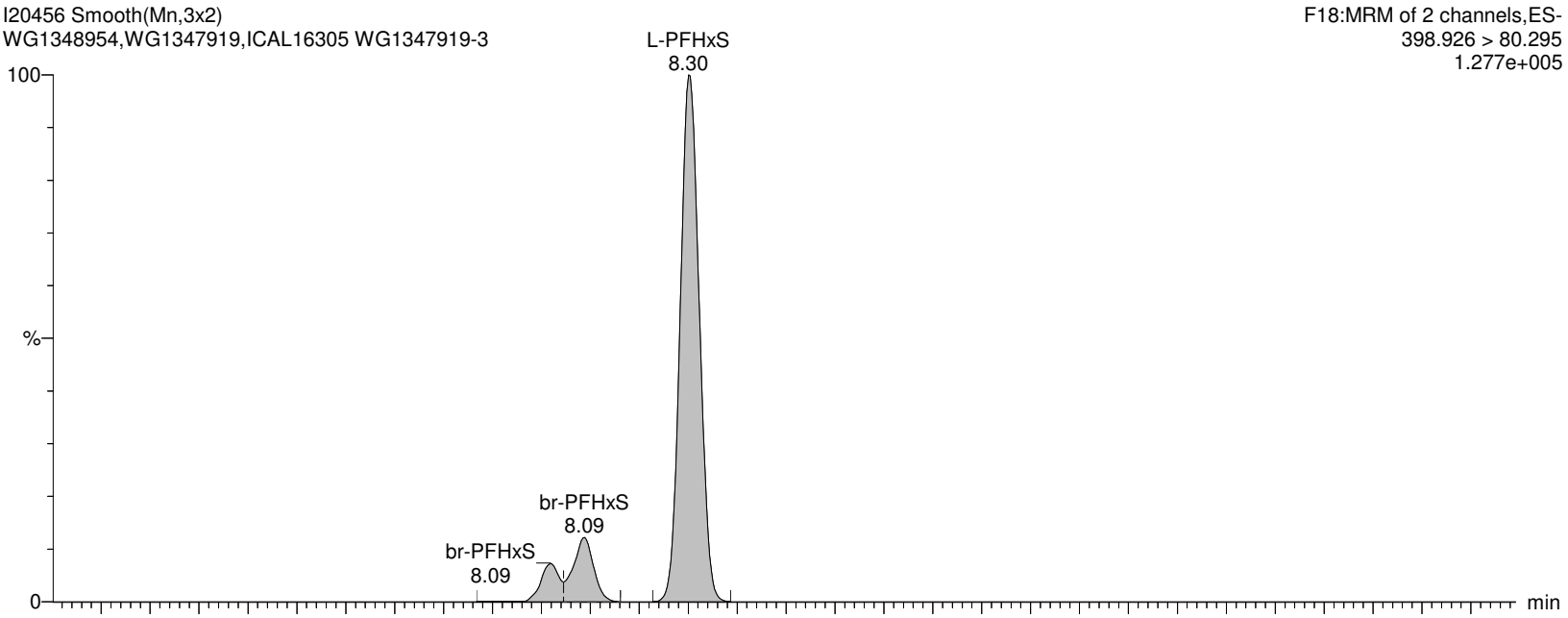

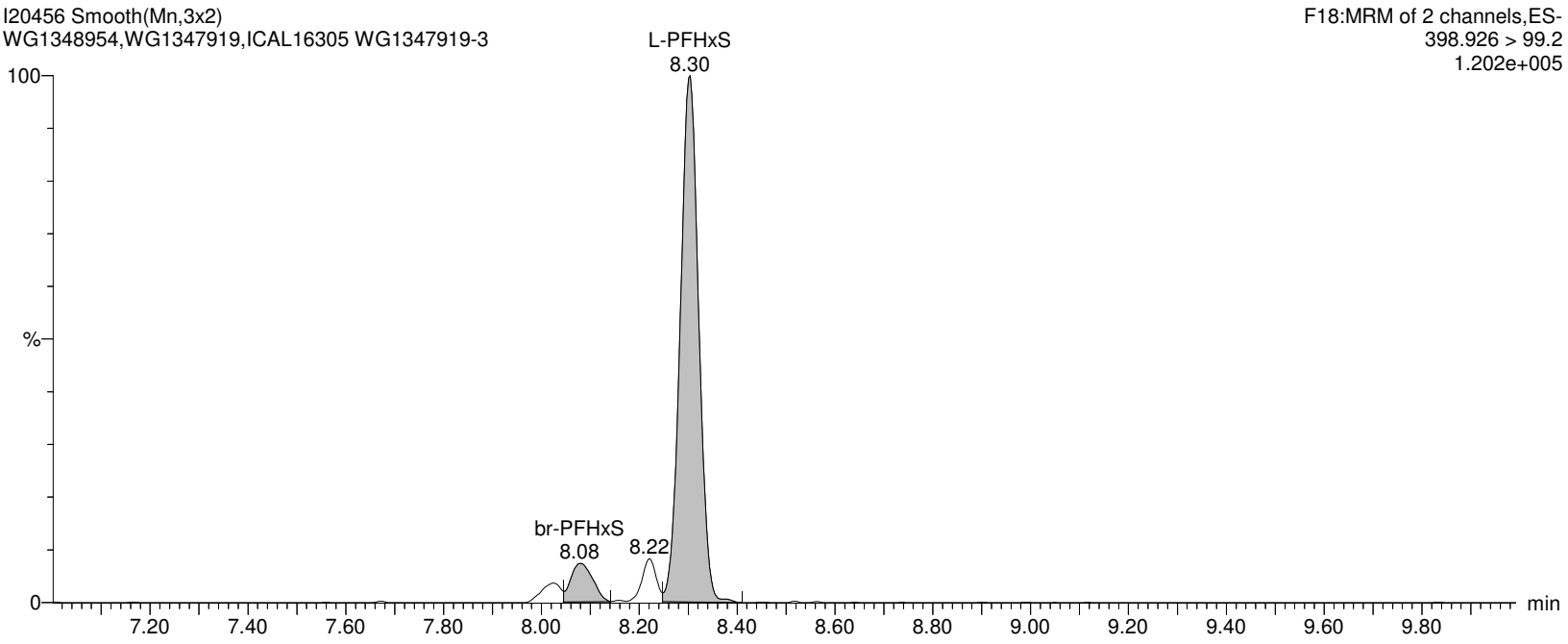

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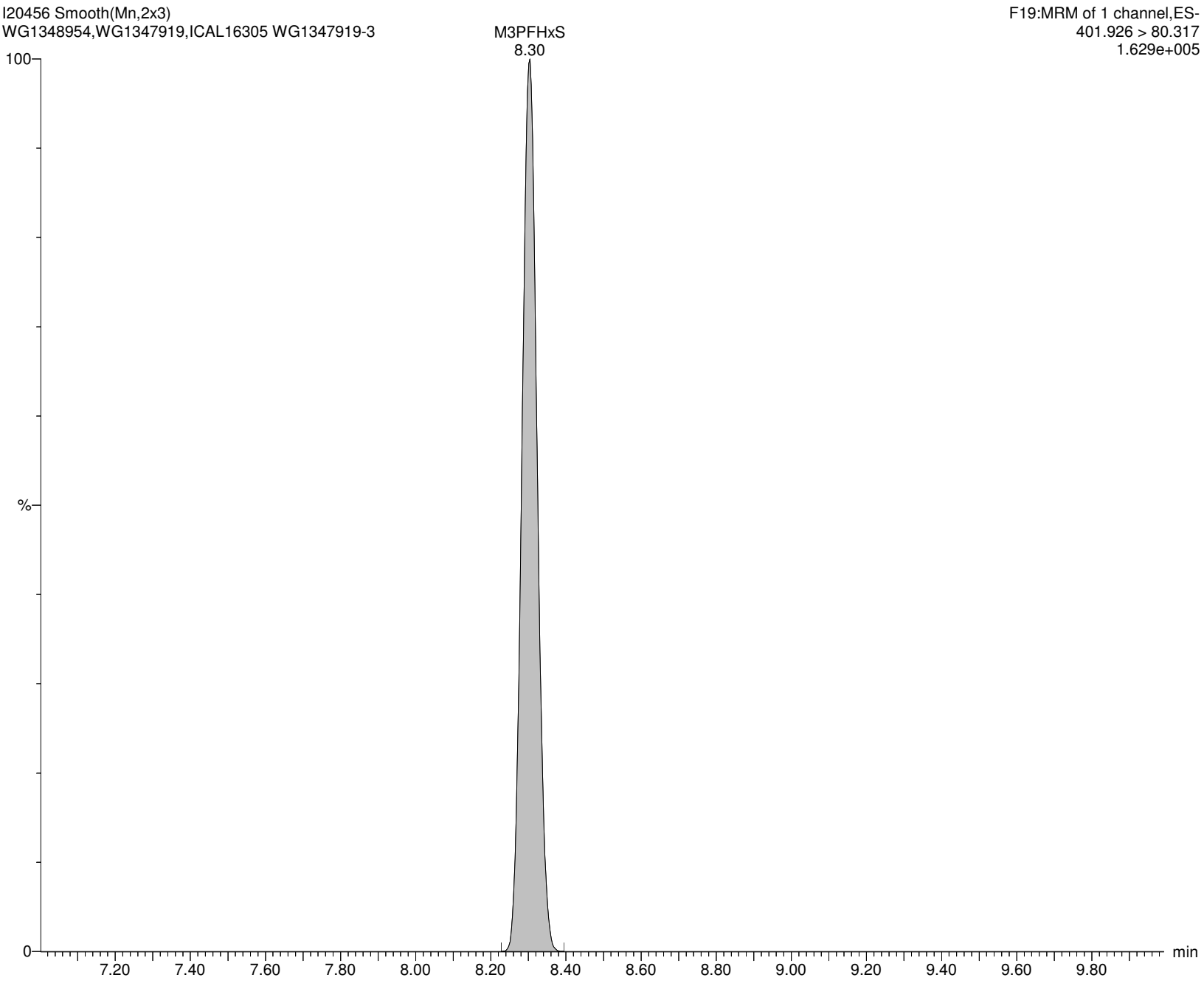

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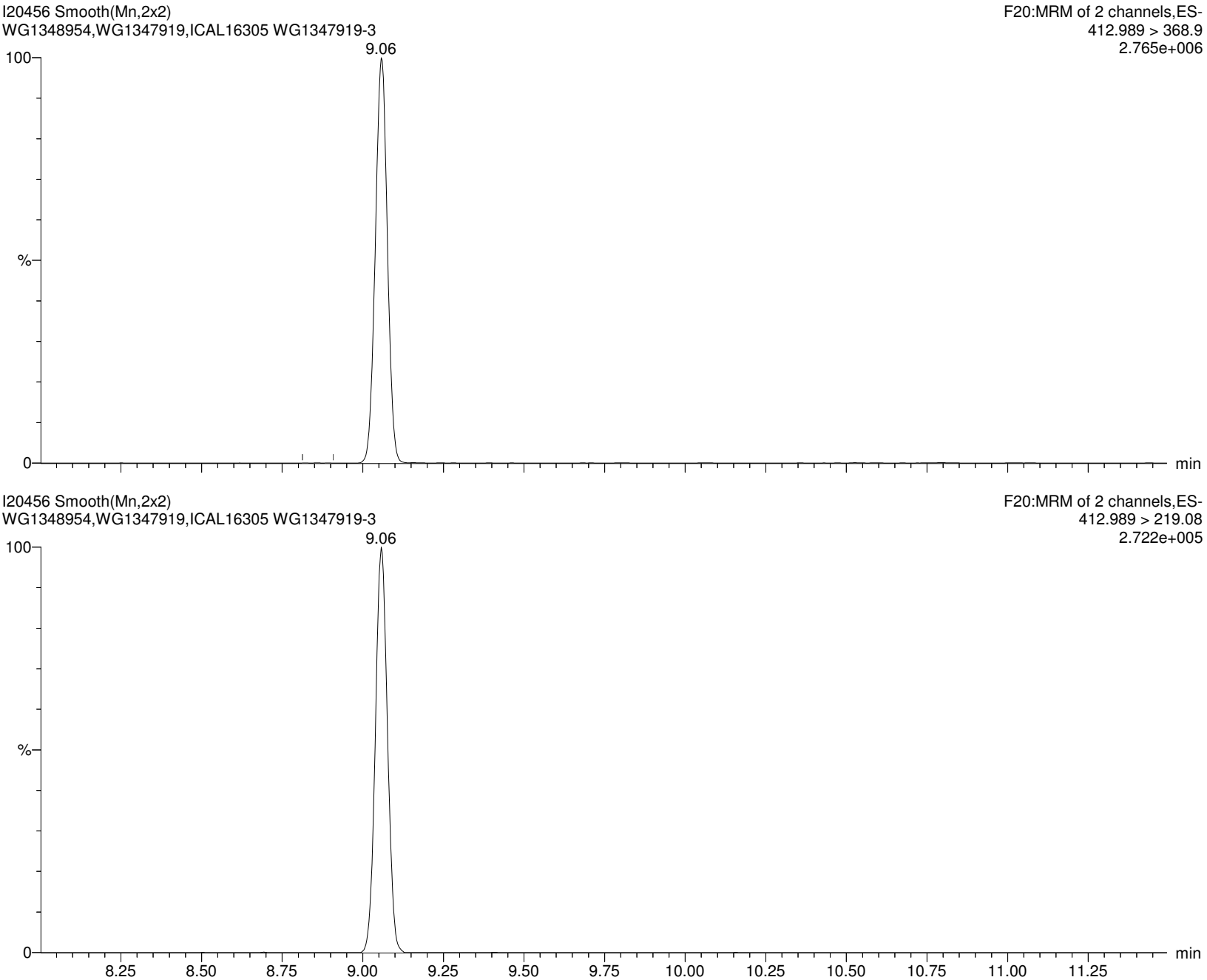

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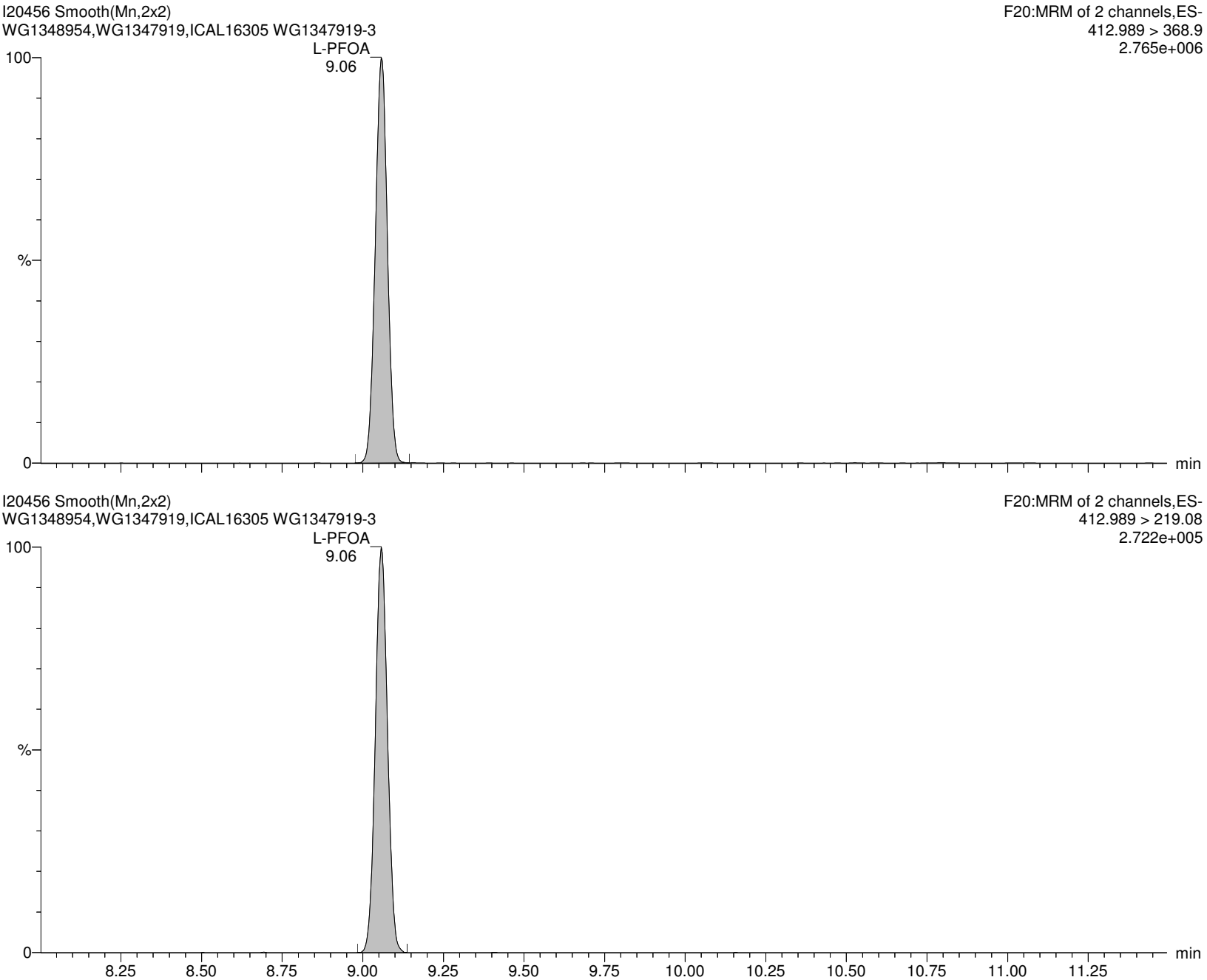

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:42 Eastern Daylight Time

Name: I20456
ID: WG1347919-3
Date: 11-Mar-2020
Time: 03:10:43
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEB0050
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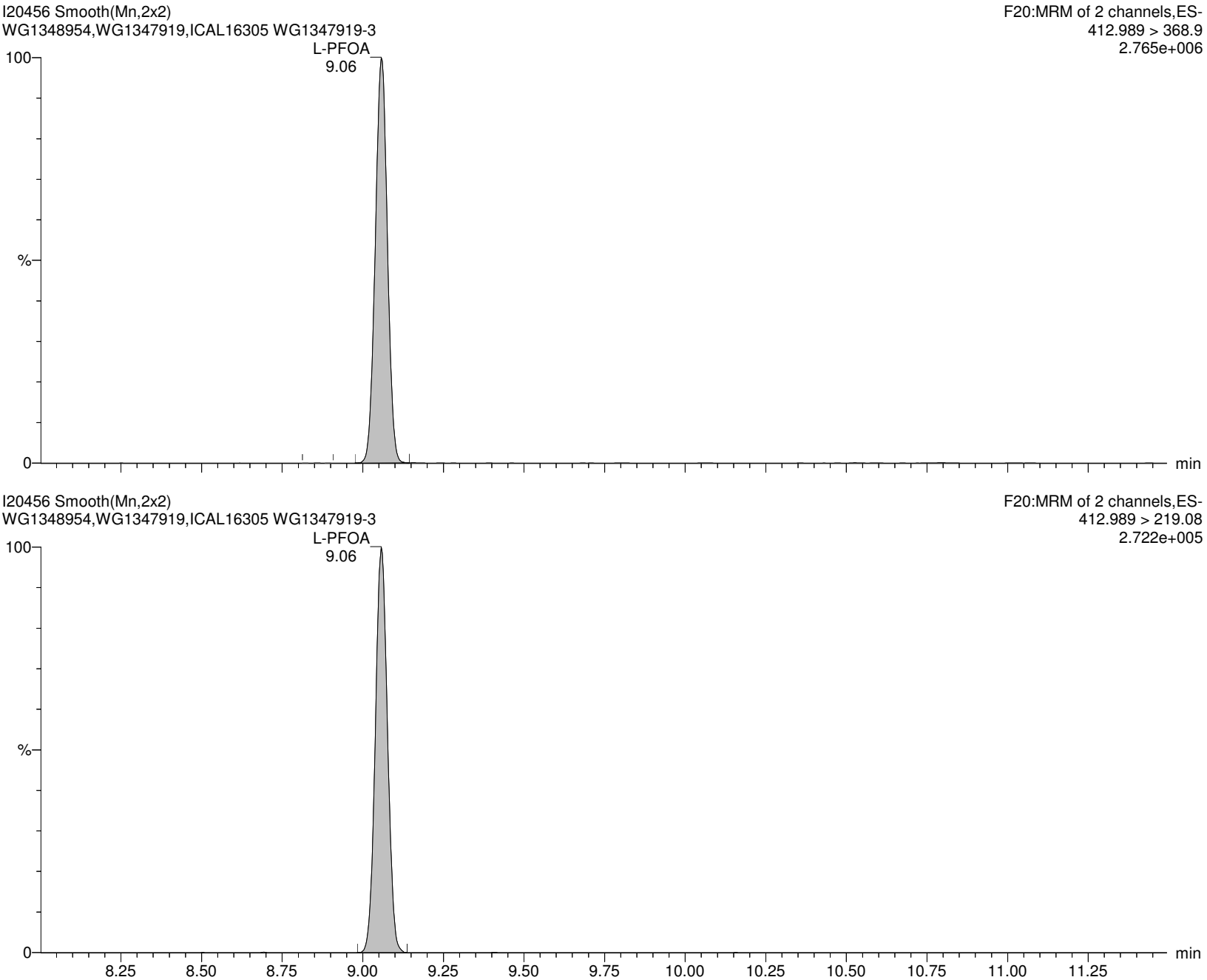

all concentration units in (ng/mL)

Alpha Analytical Inc.
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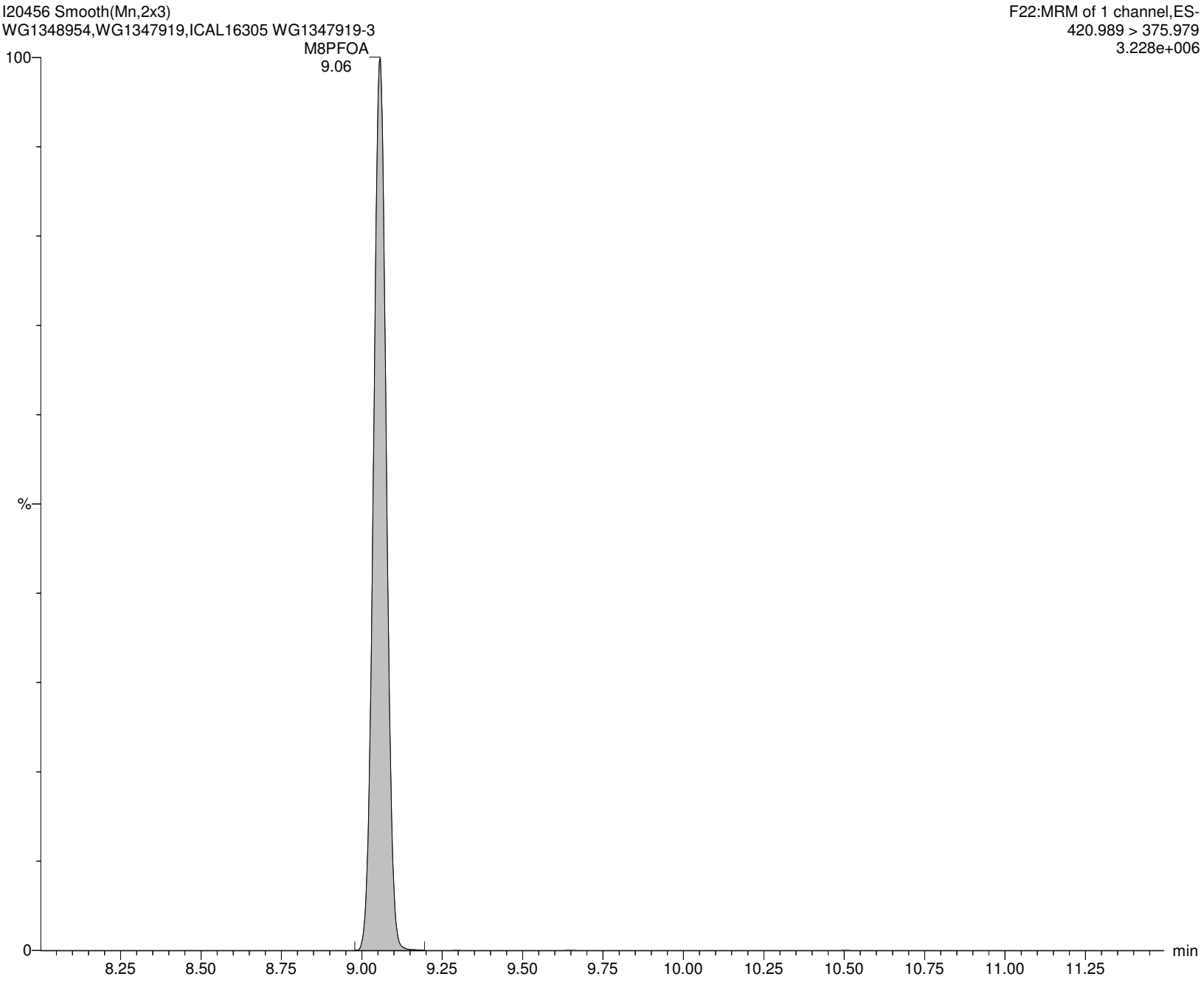

all concentration units in (ng/mL)

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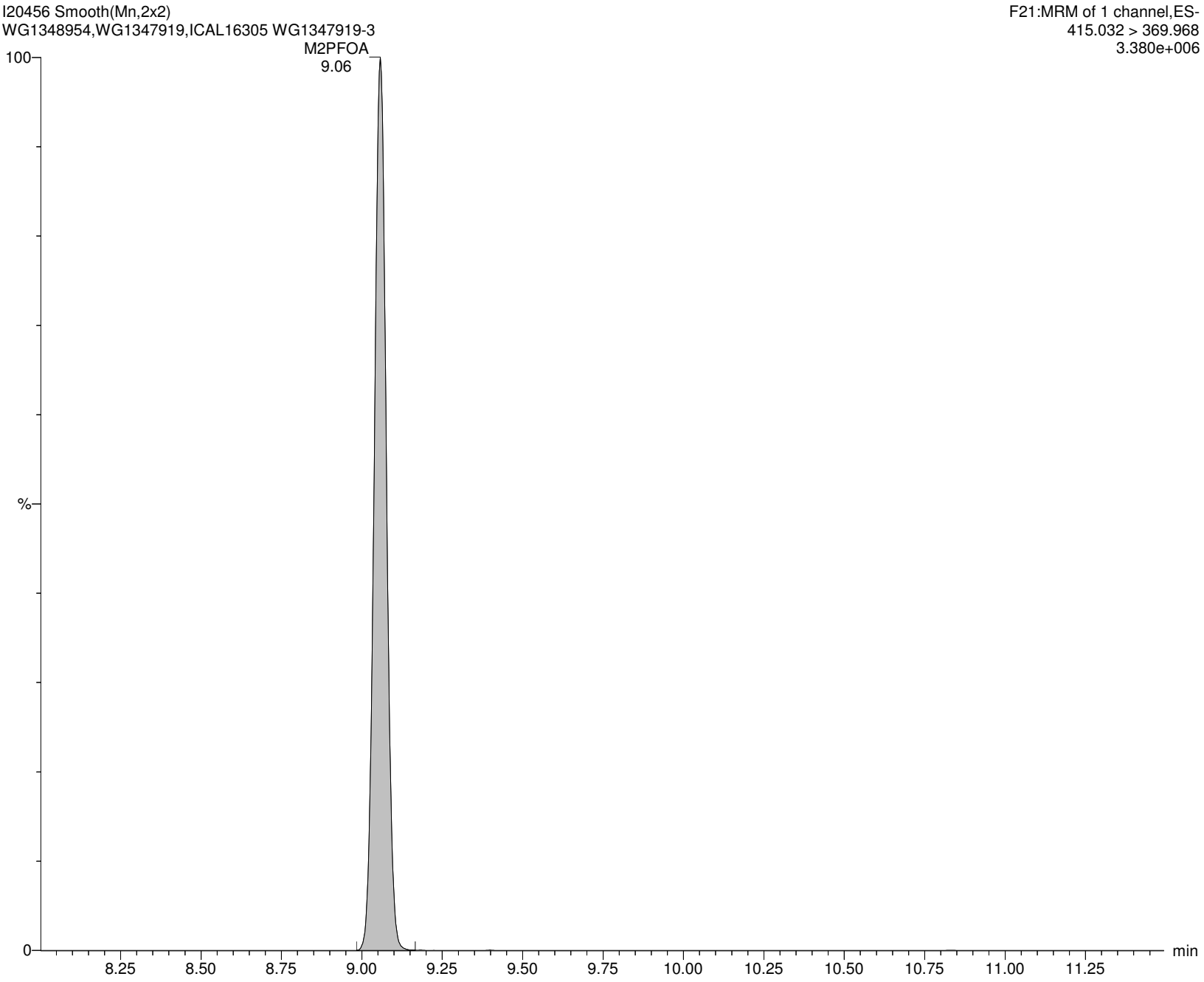

all concentration units in (ng/mL)

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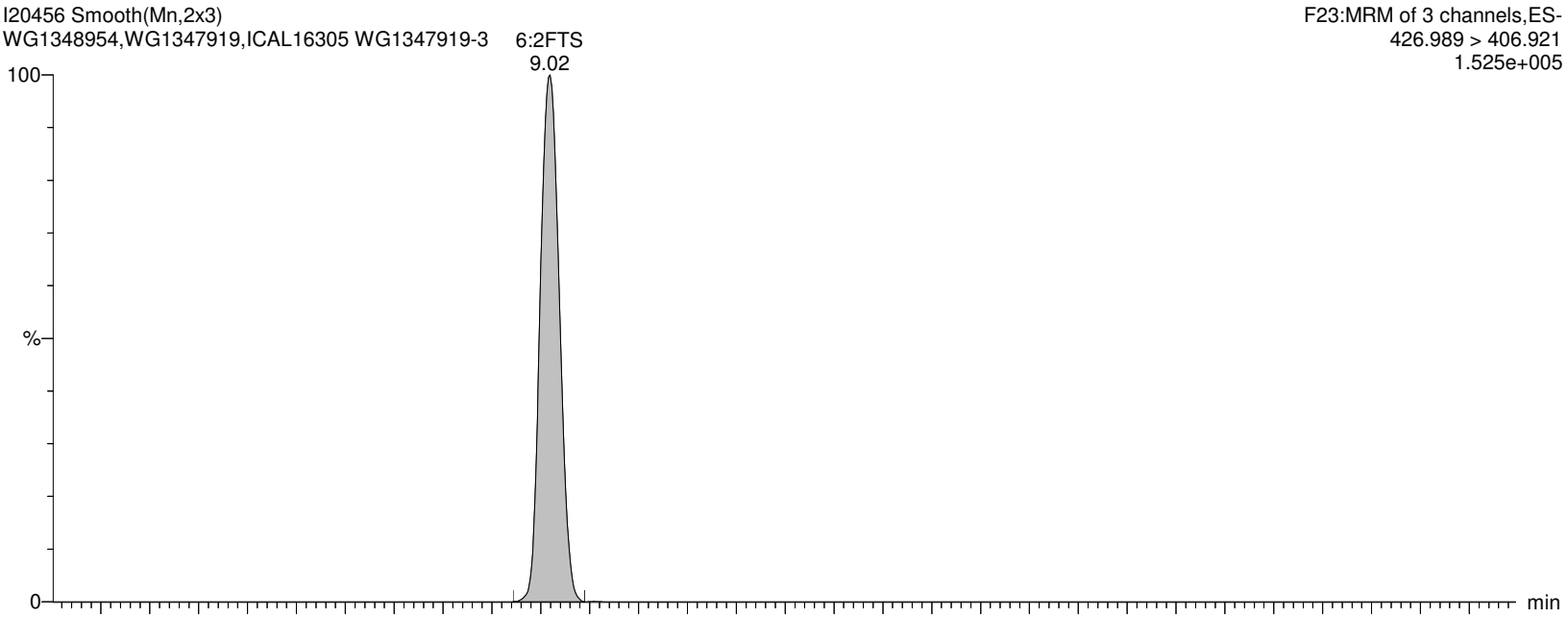

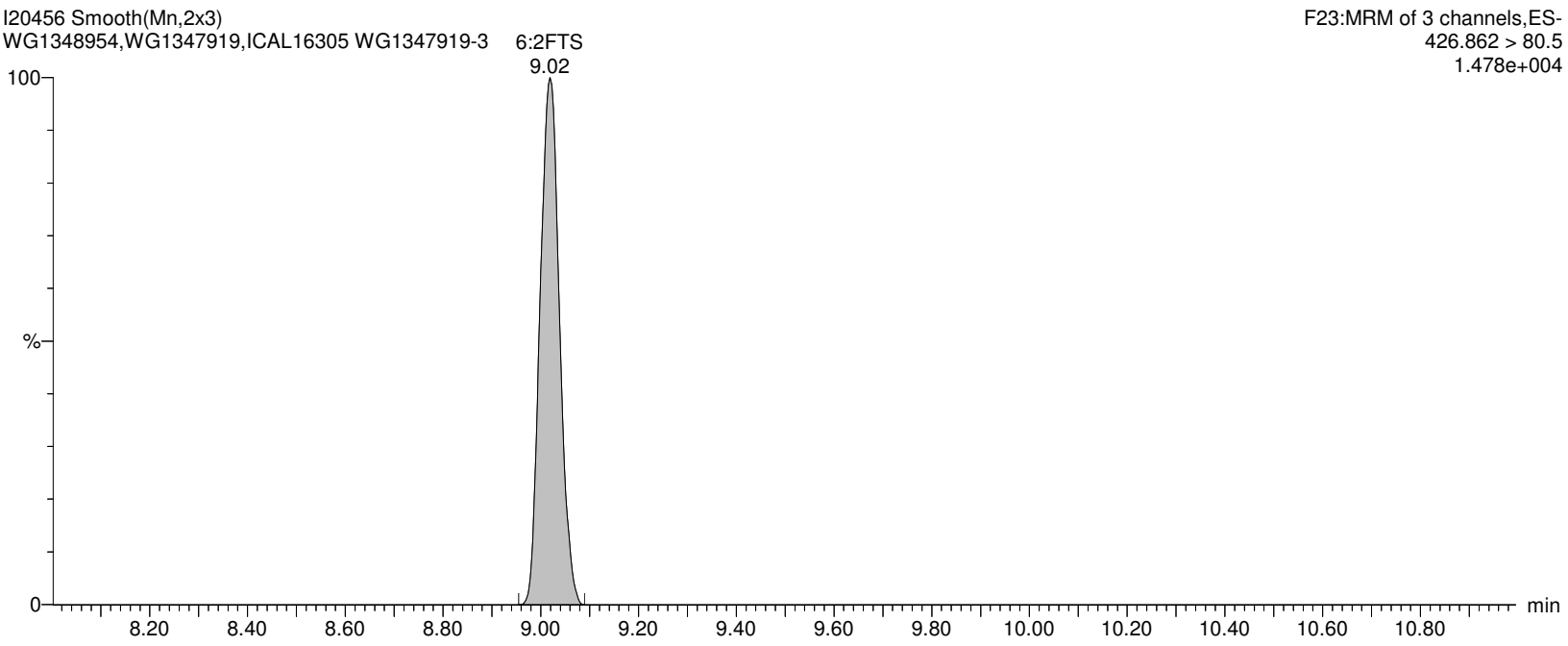

all concentration units in (ng/mL)

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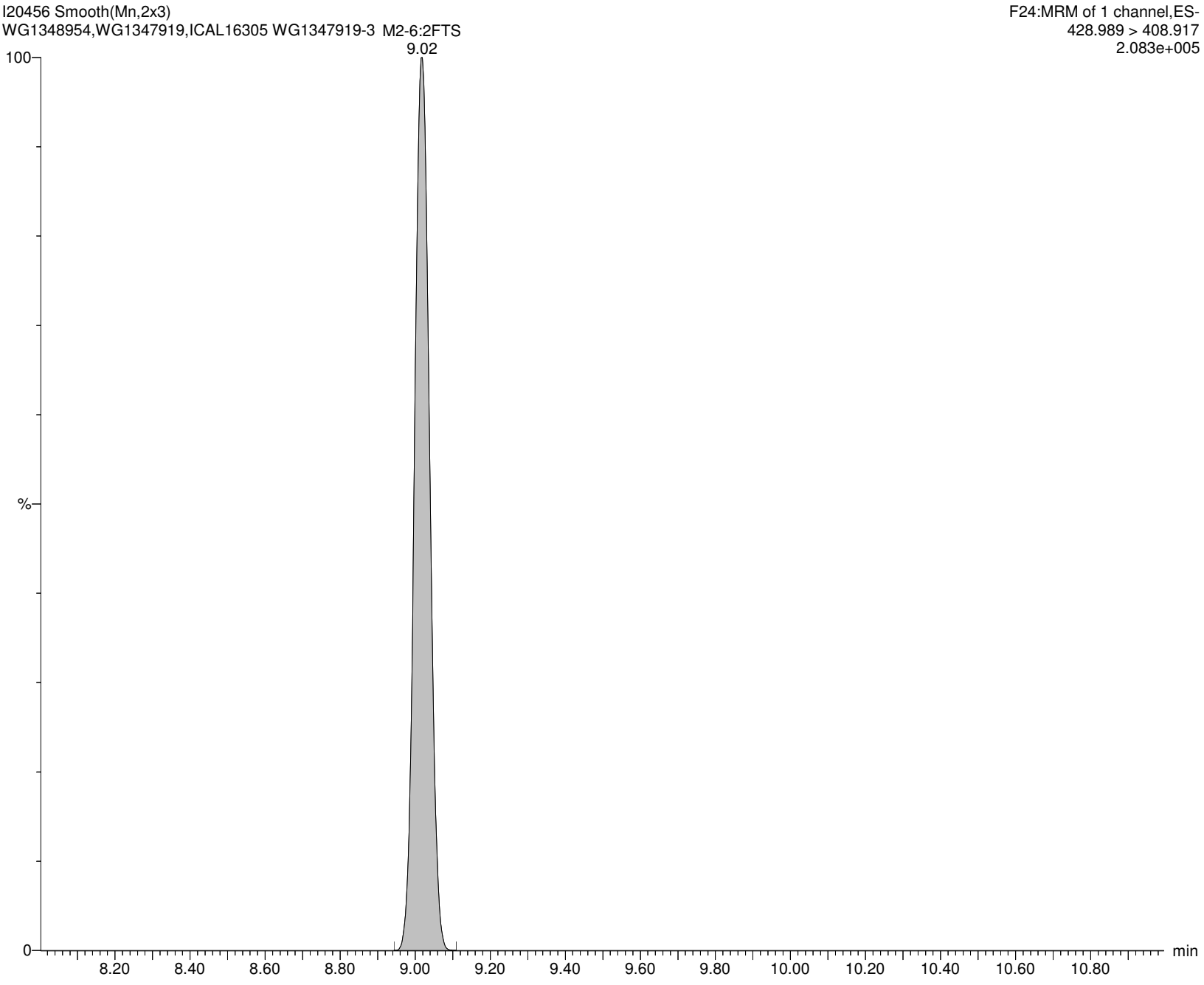

all concentration units in (ng/mL)

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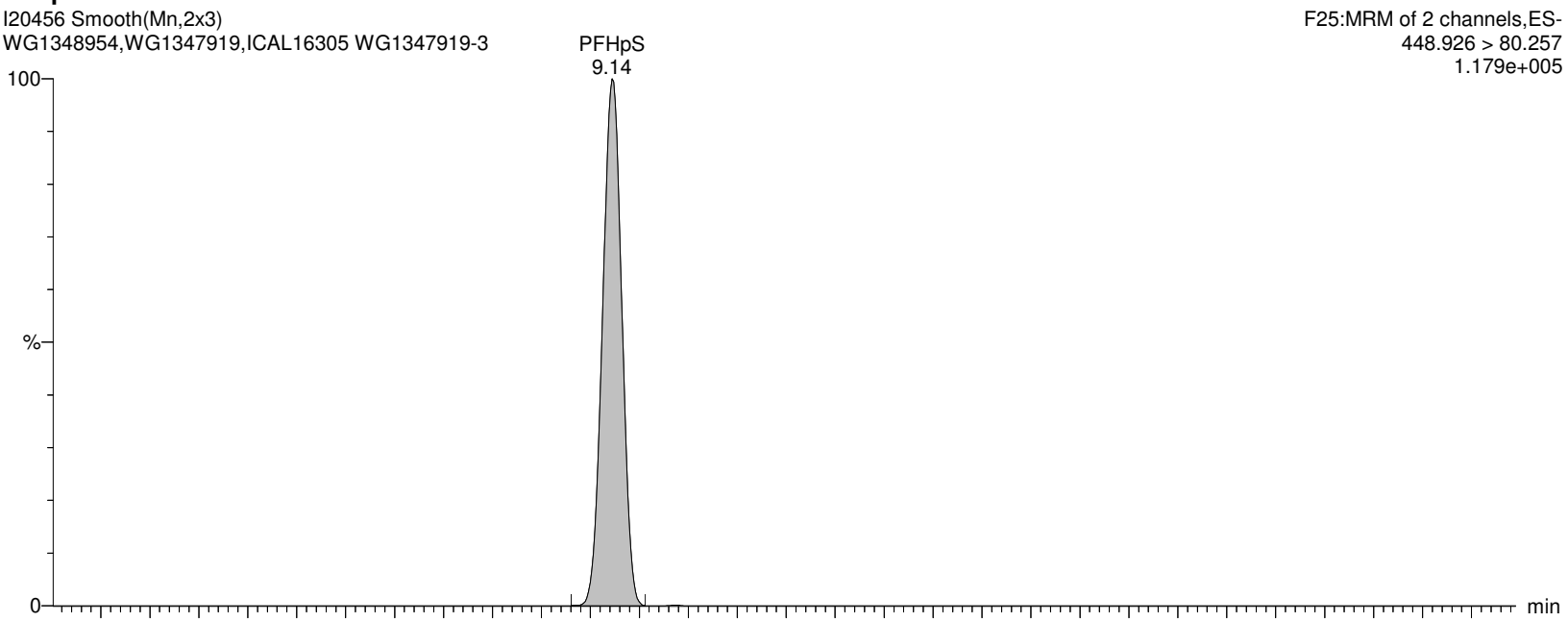

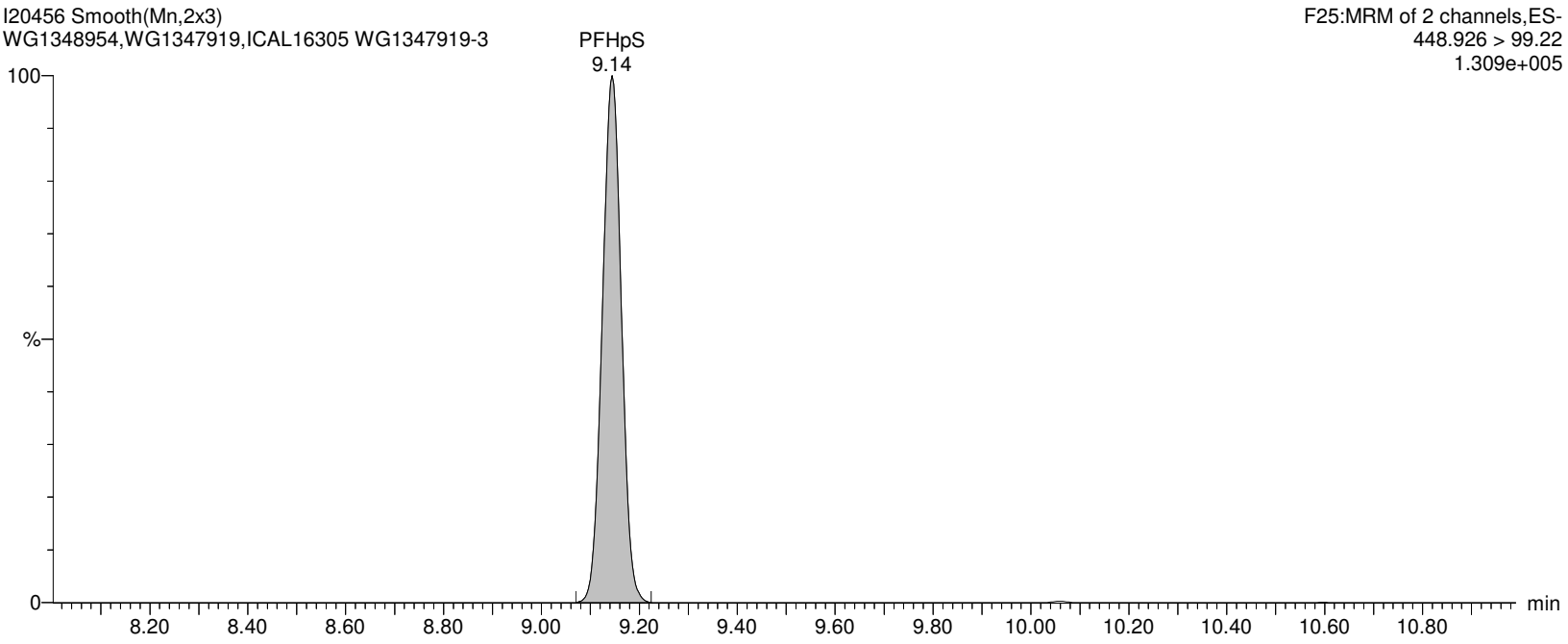

all concentration units in (ng/mL)

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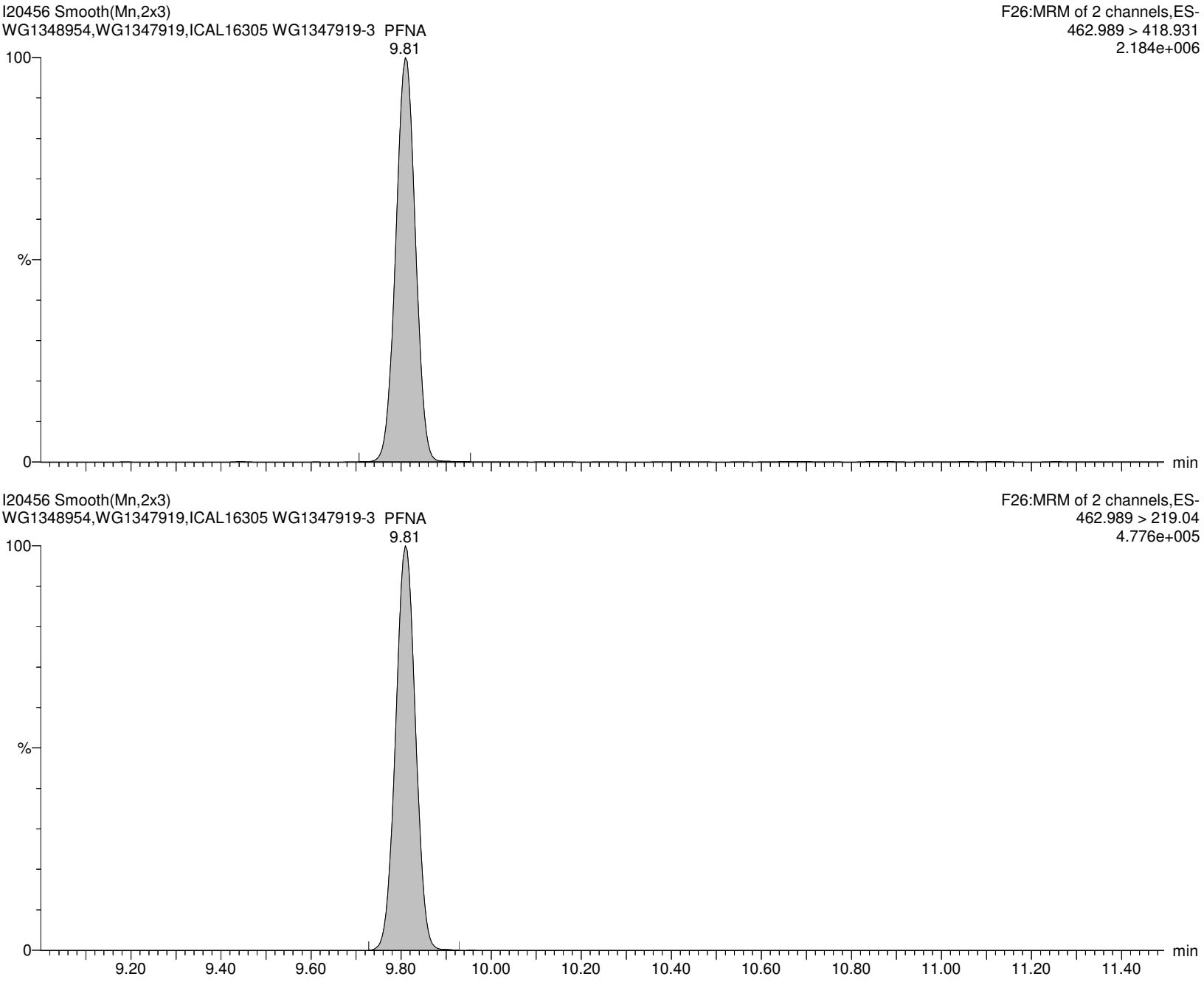

all concentration units in (ng/mL)

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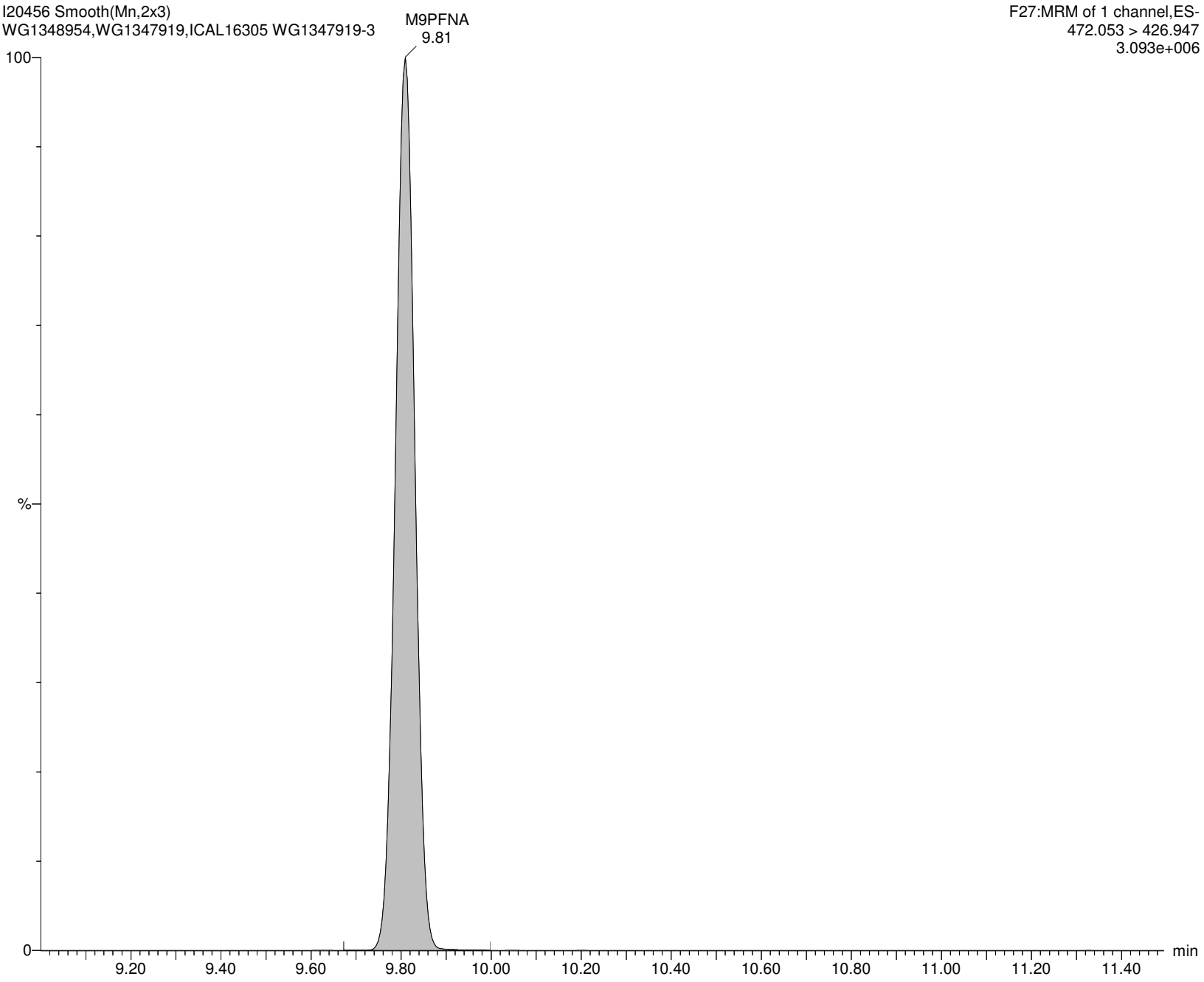

all concentration units in (ng/mL)

Alpha Analytical Inc.
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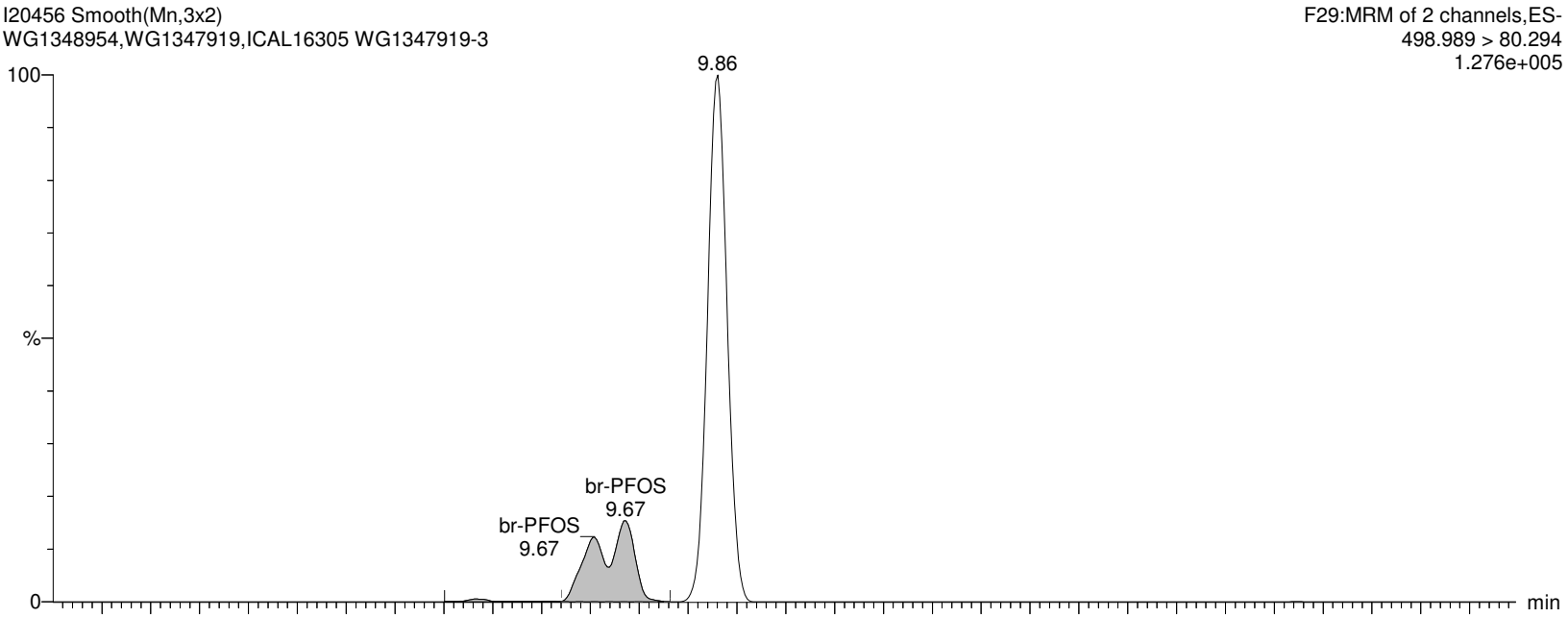

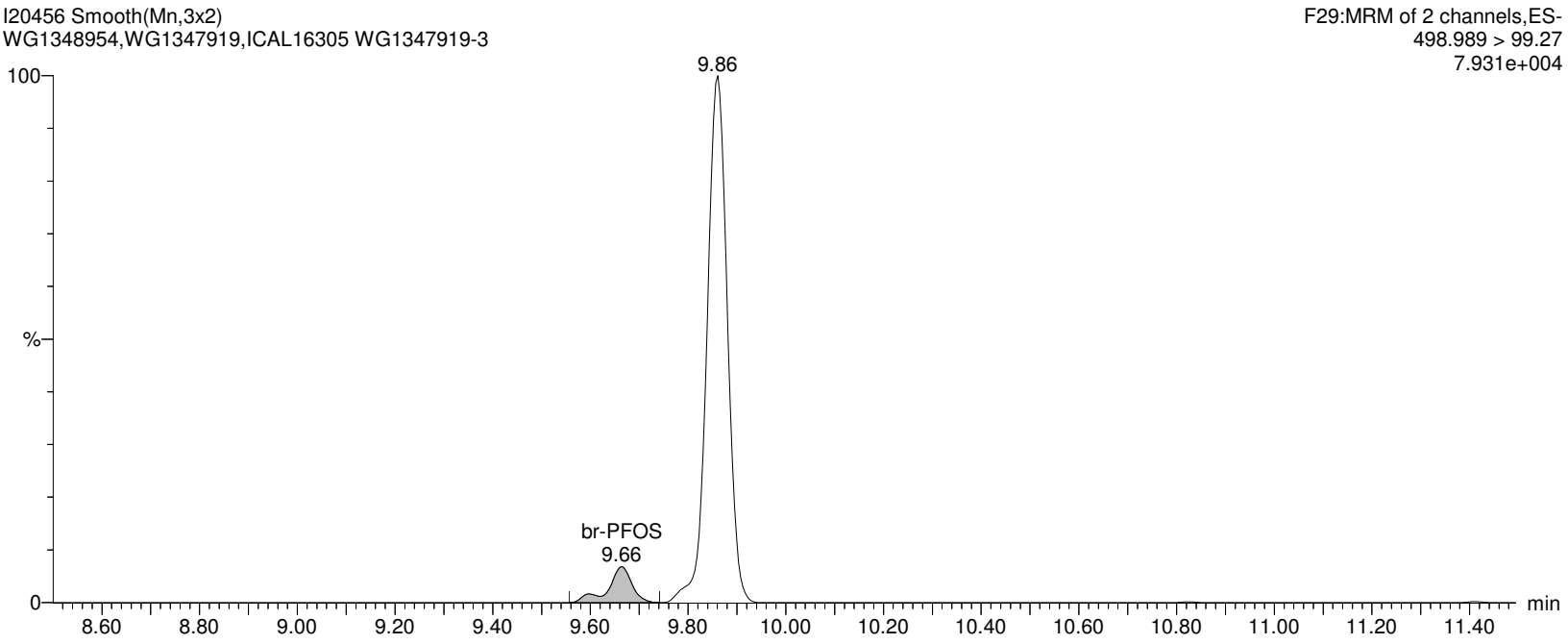

all concentration units in (ng/mL)

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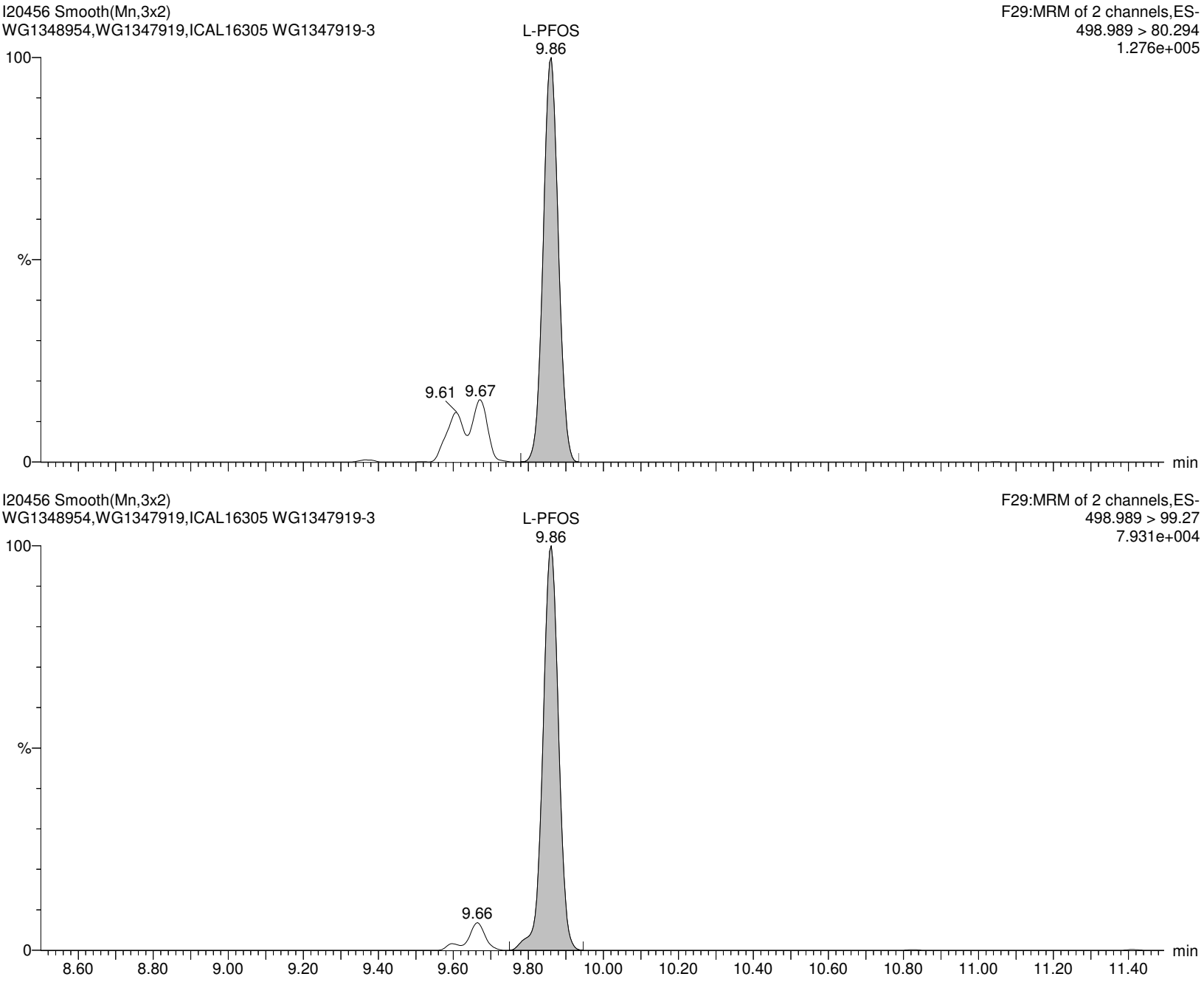
L-PFOS



all concentration units in (ng/mL)

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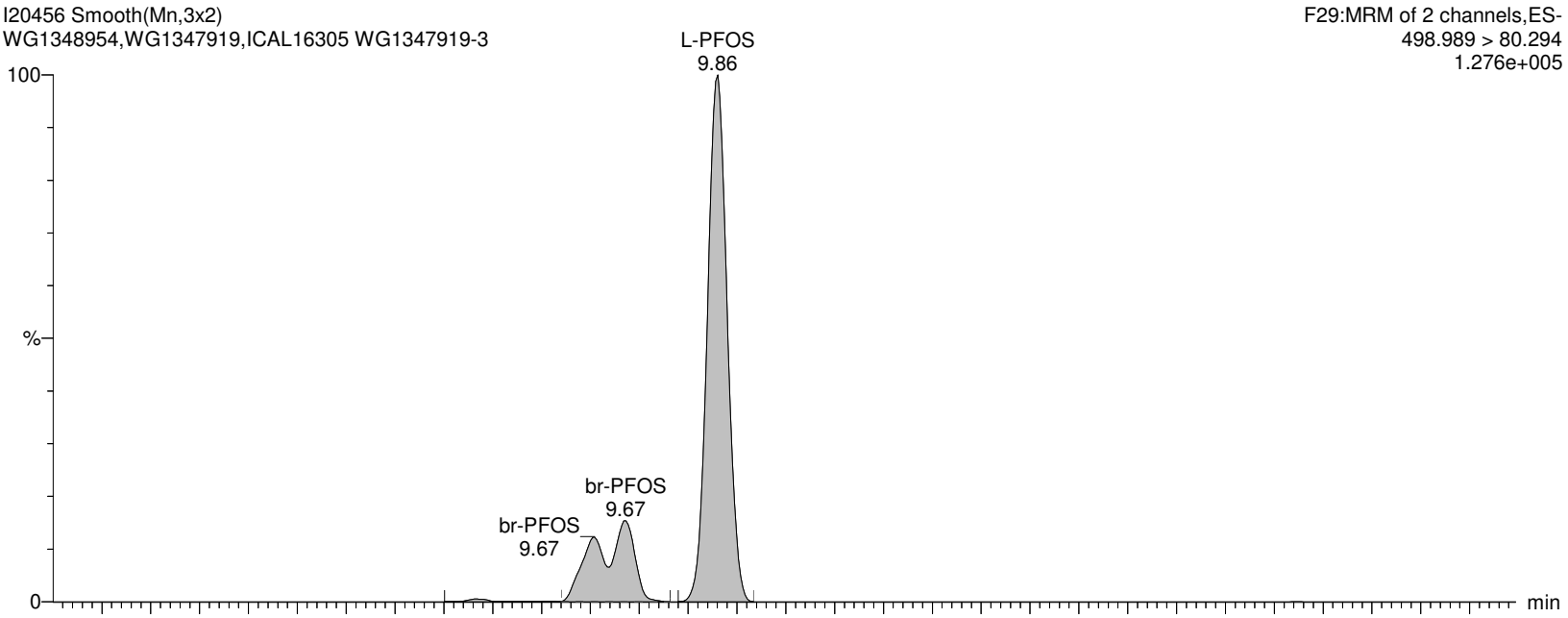

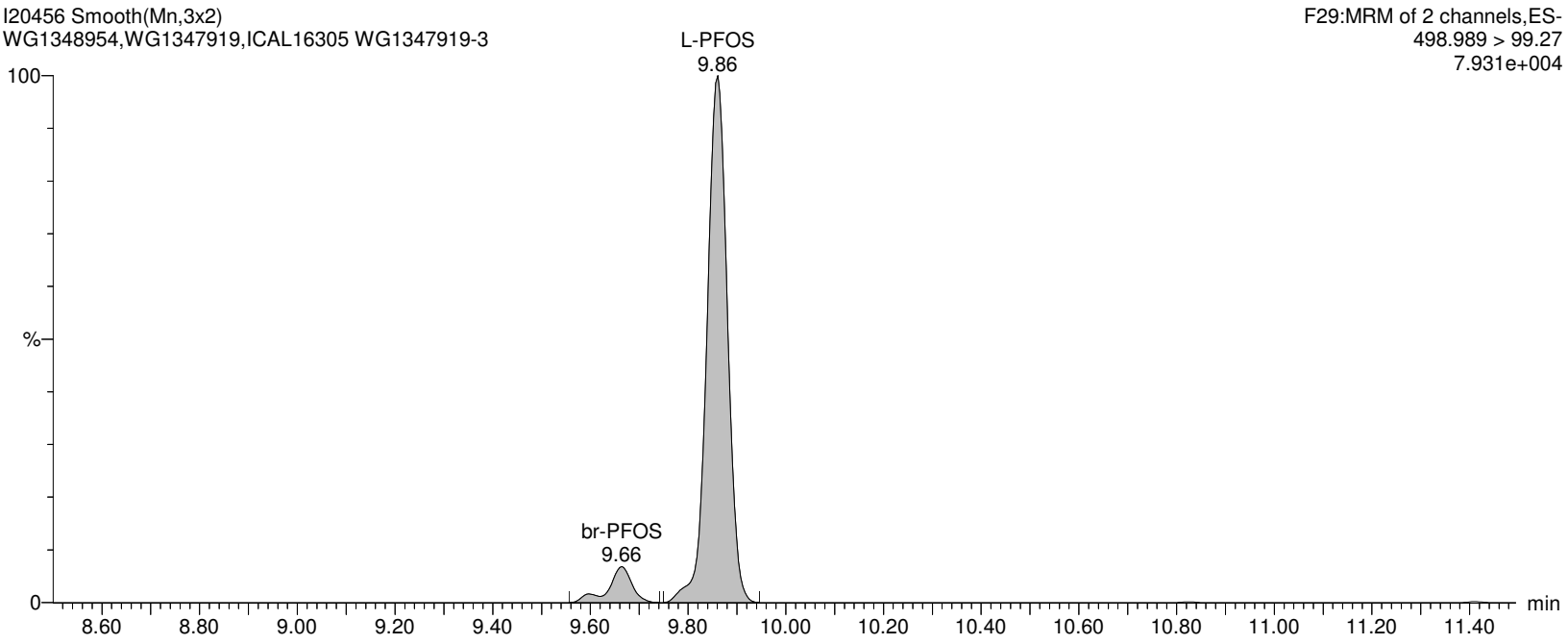

all concentration units in (ng/mL)

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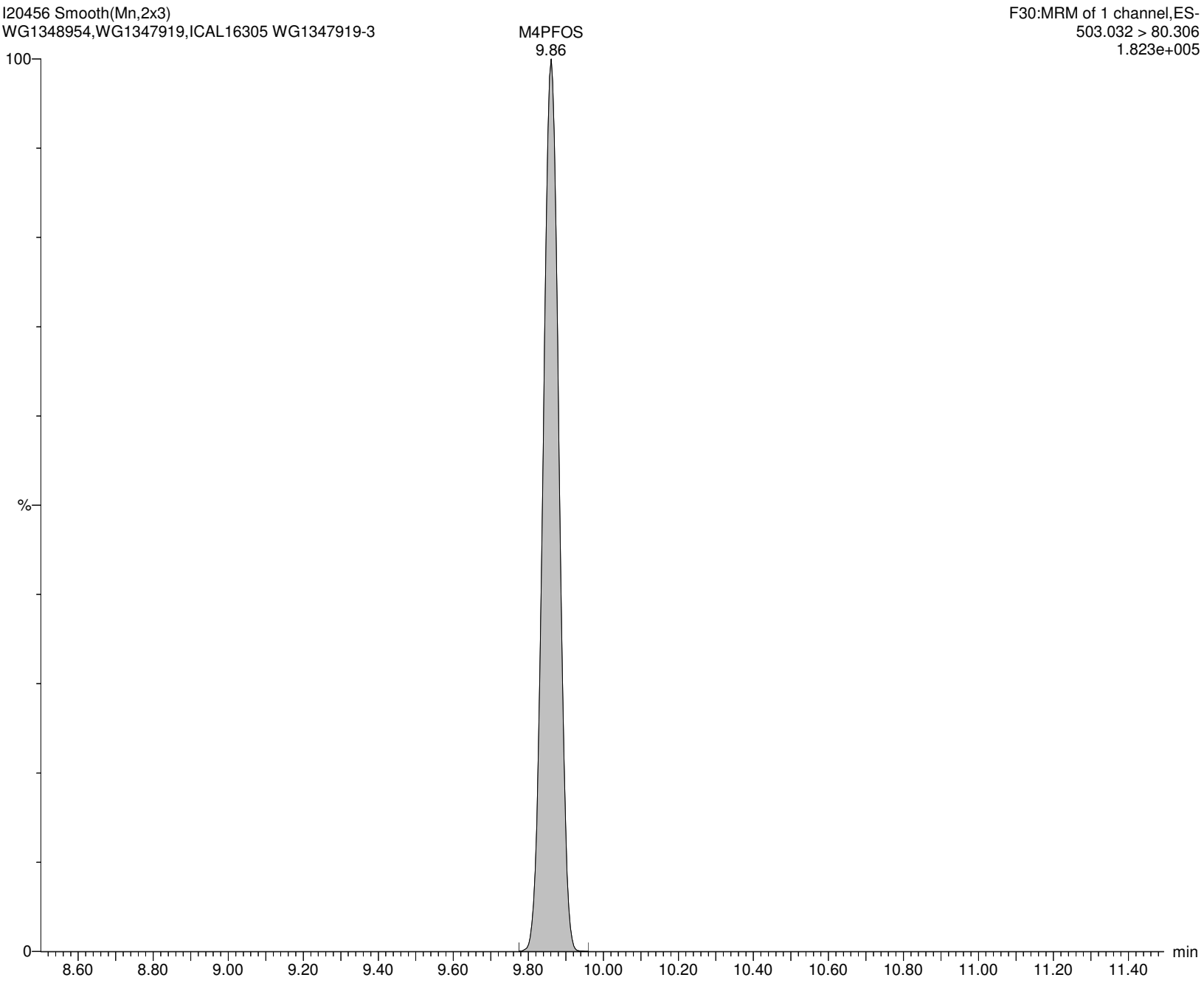

all concentration units in (ng/mL)

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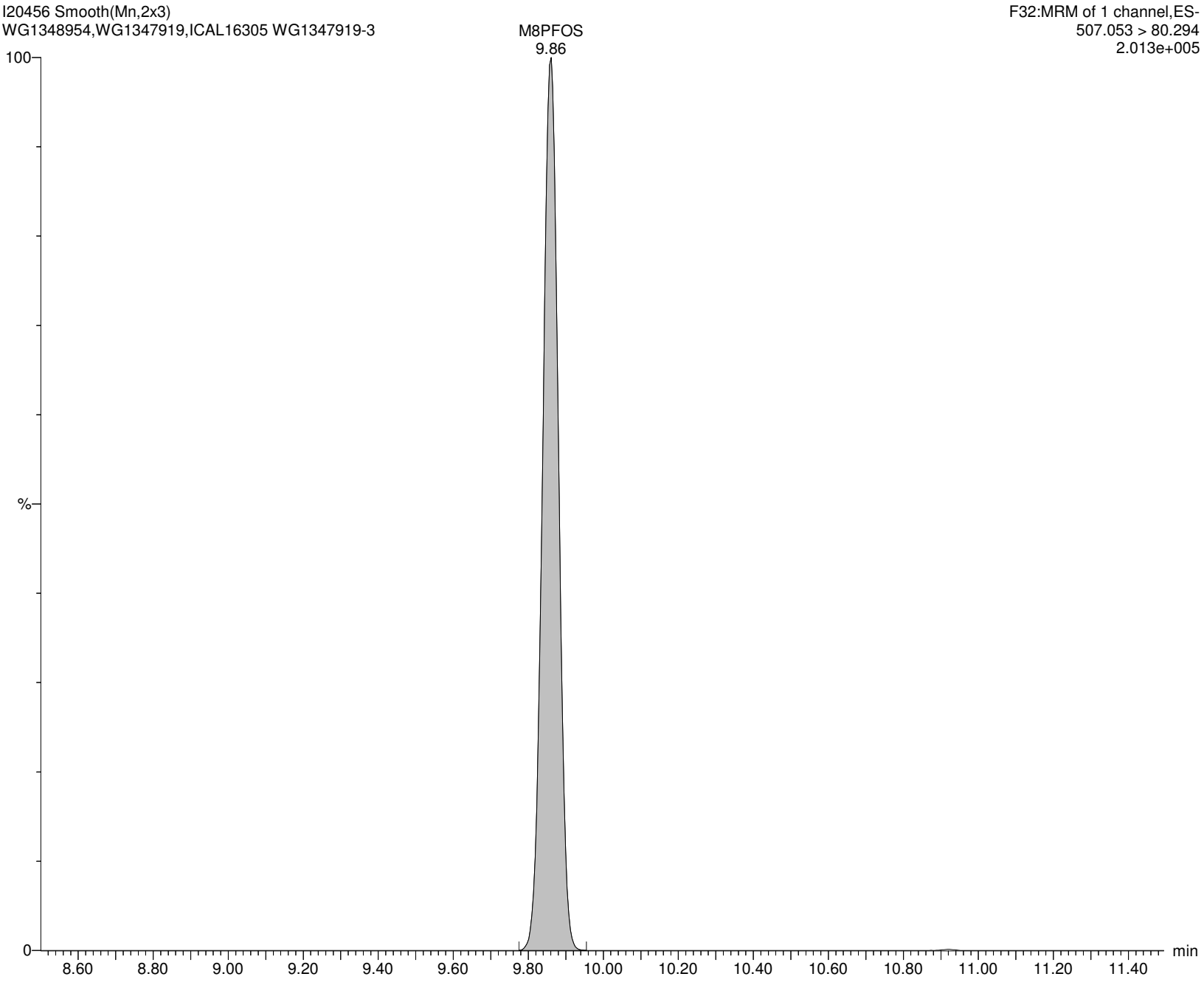

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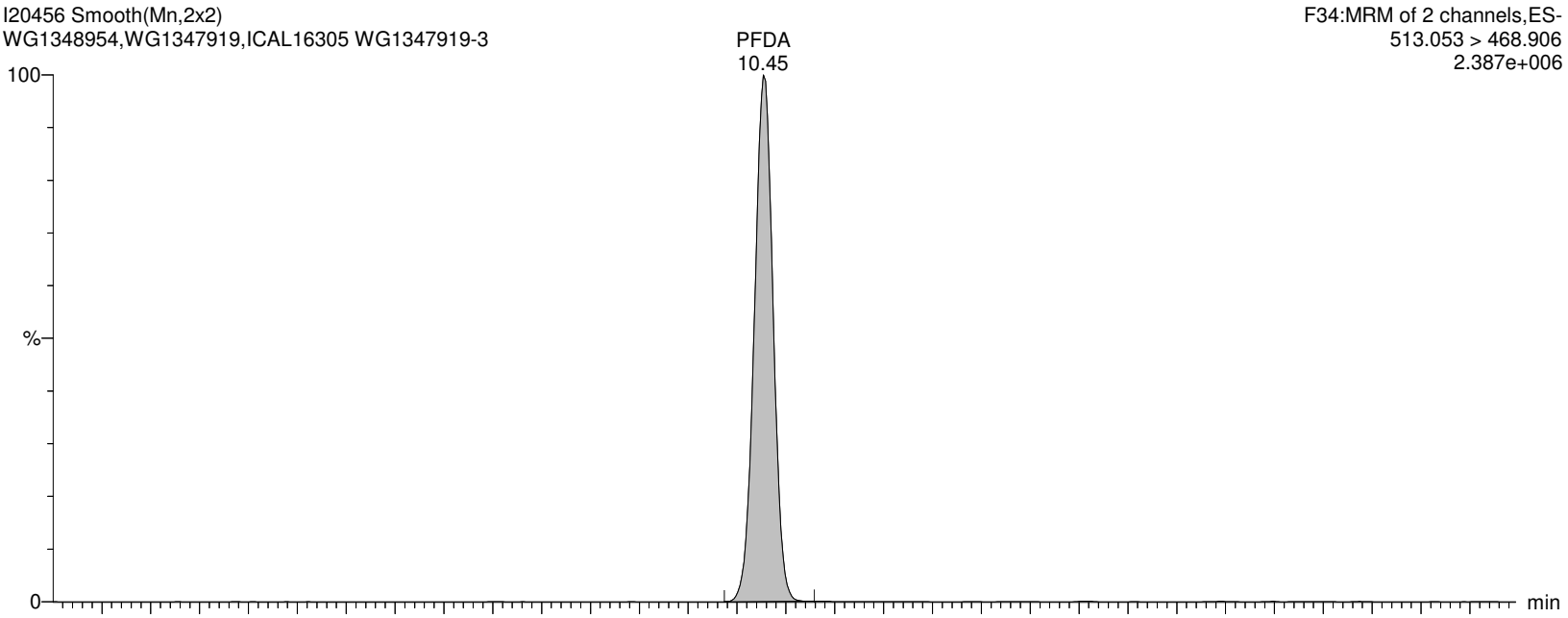

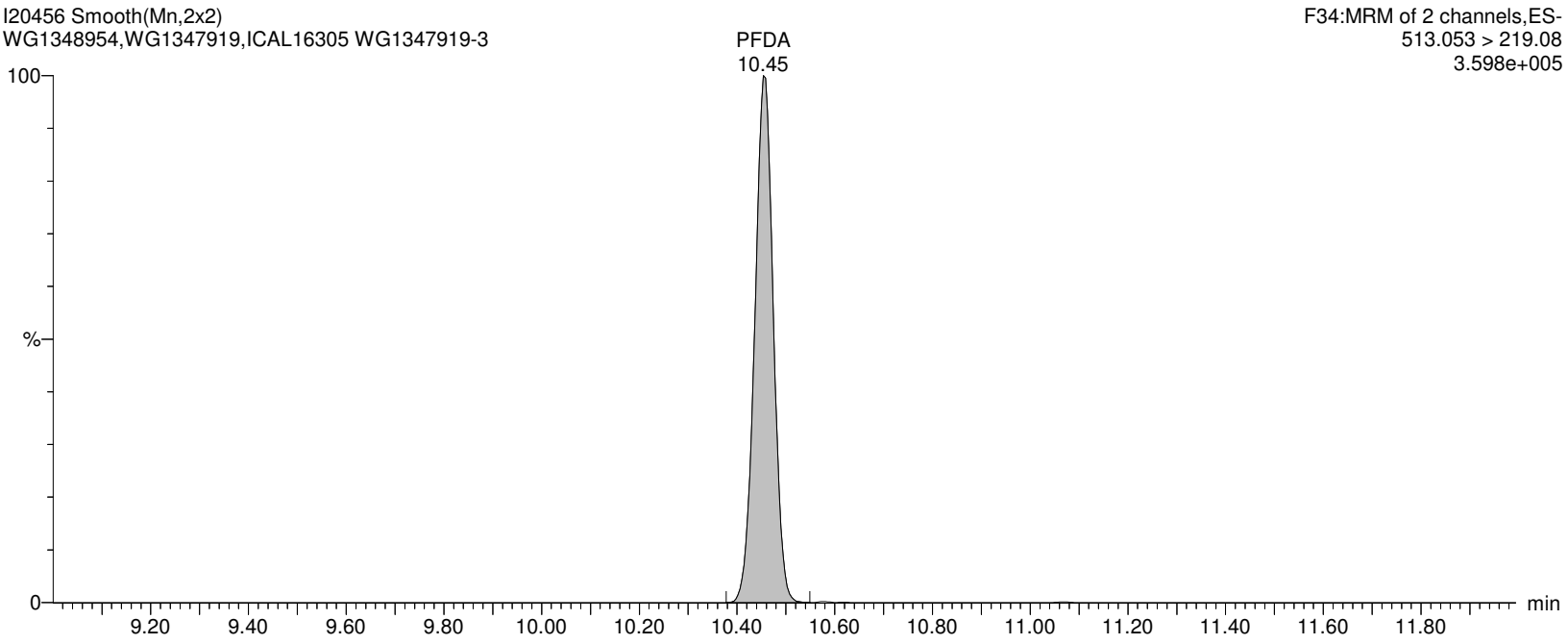

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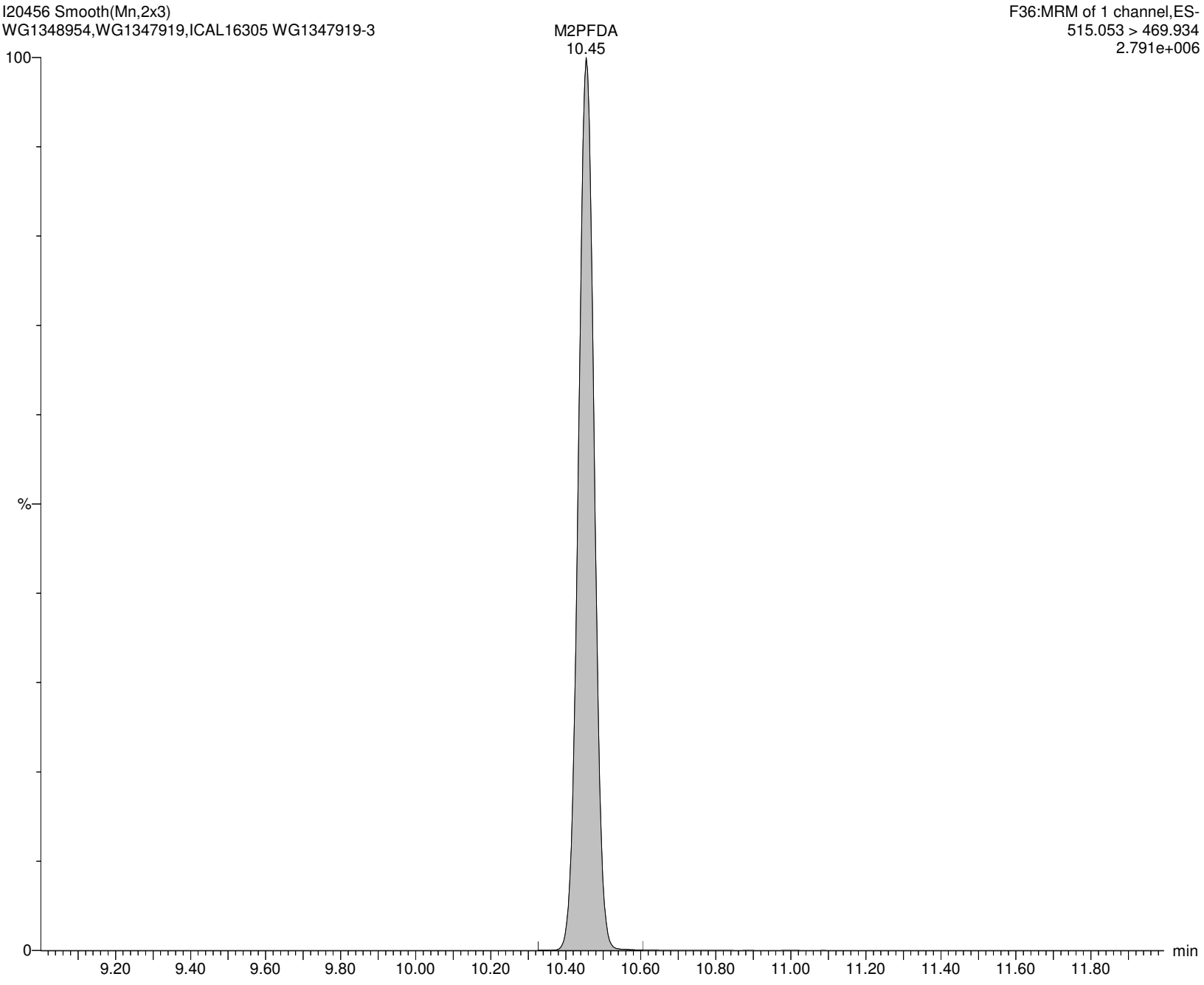

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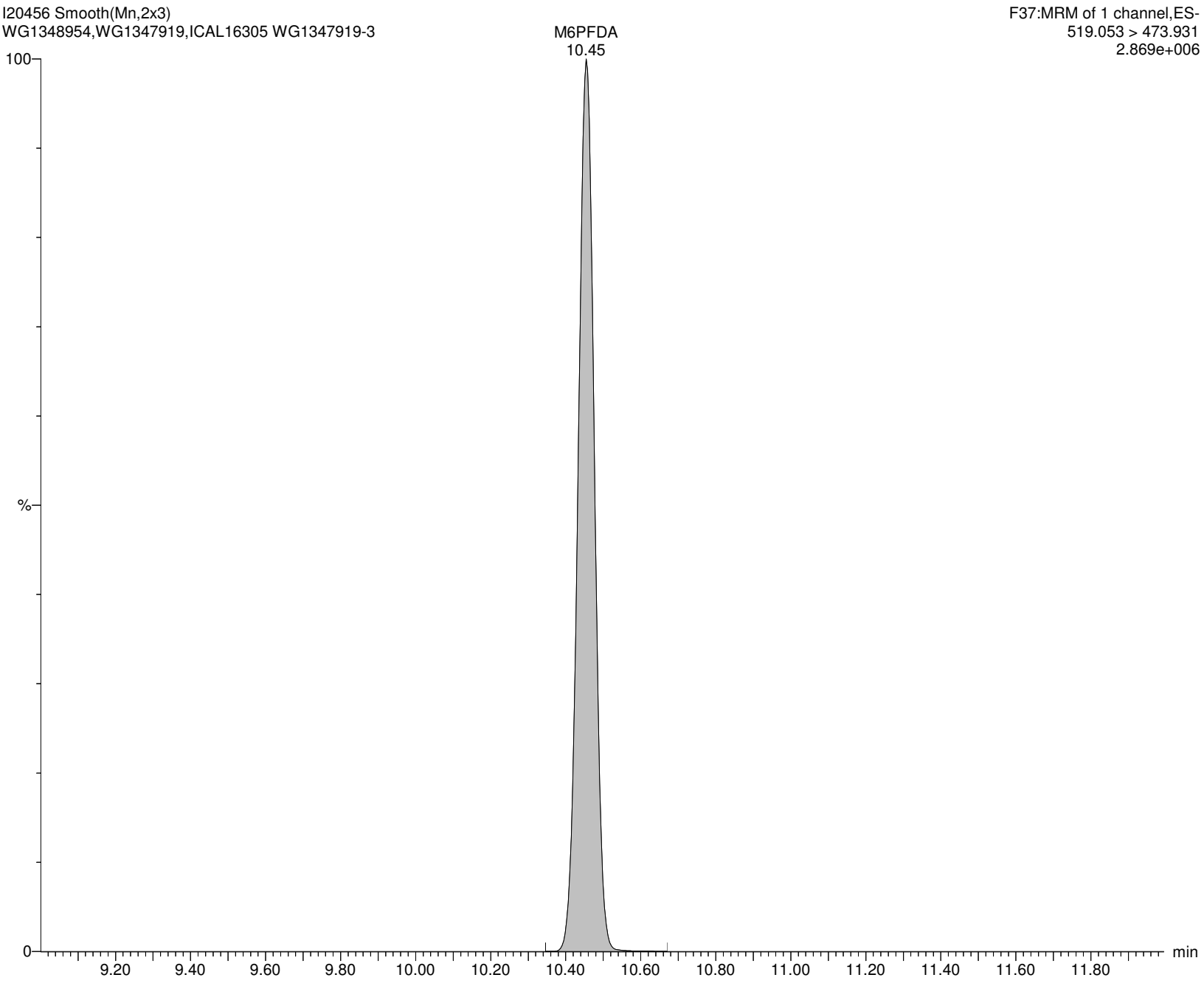

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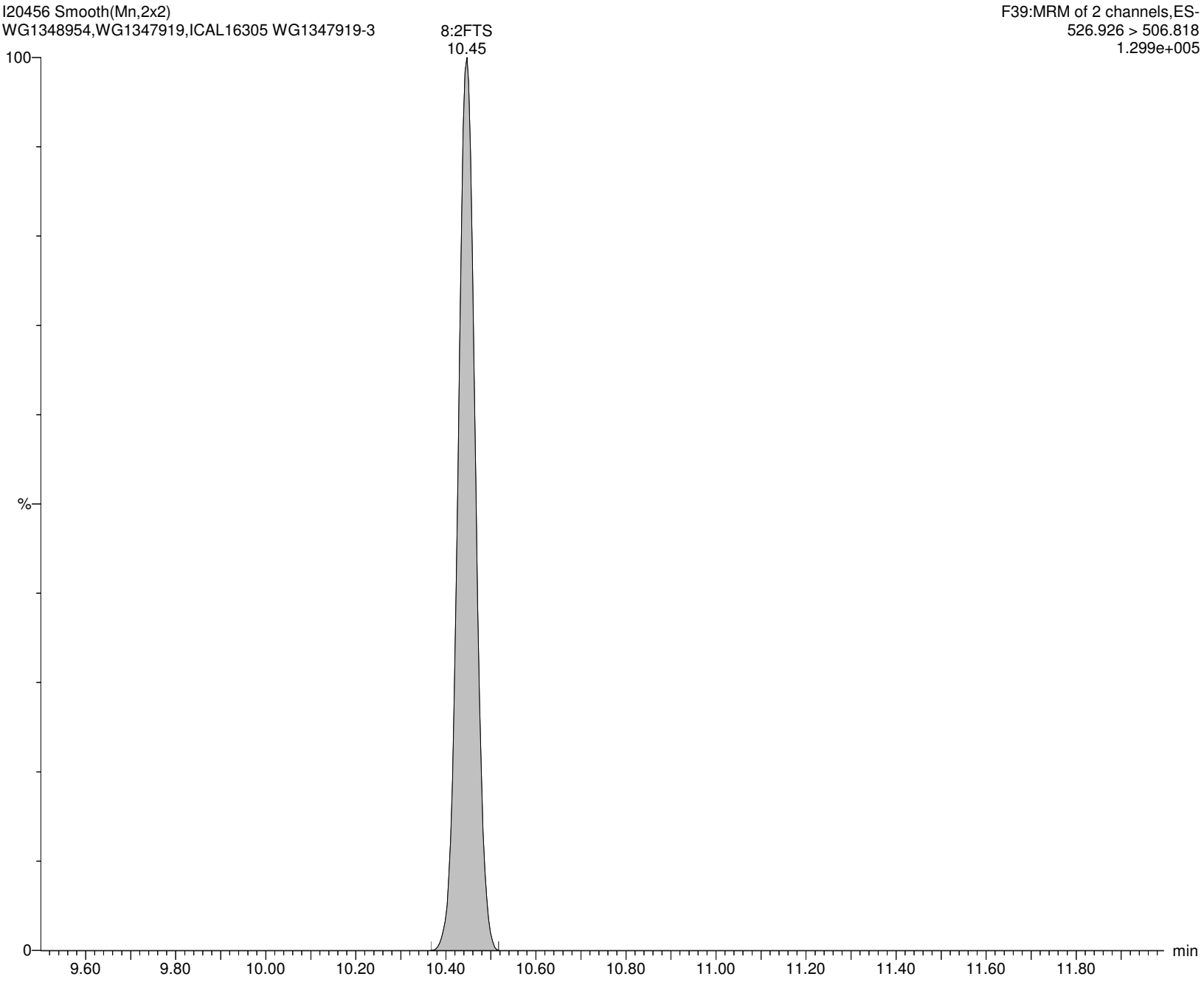

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:42 Eastern Daylight Time

Name: I20456
ID: WG1347919-3
Date: 11-Mar-2020
Time: 03:10:43
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 2:B,1
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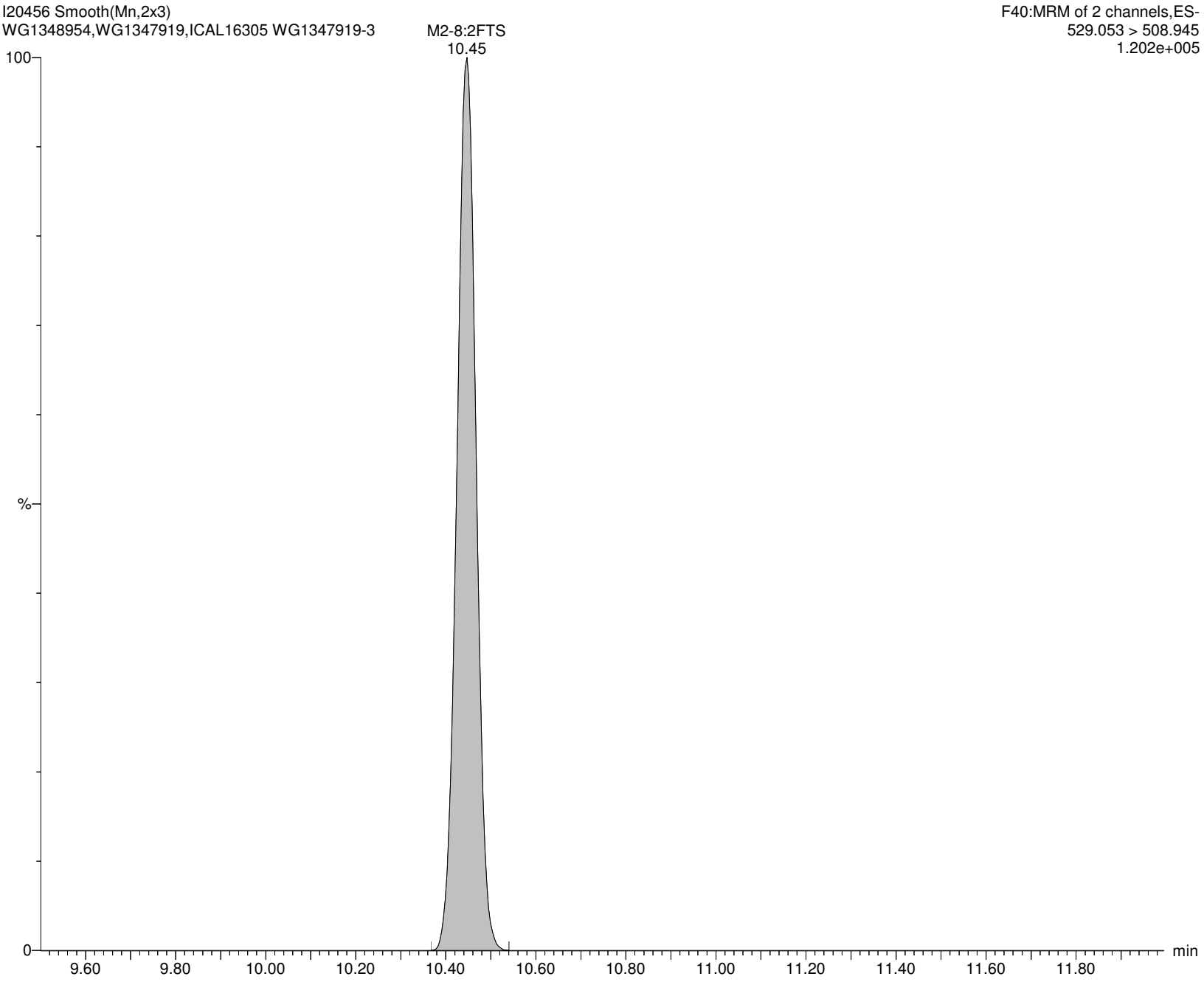

all concentration units in (ng/mL)

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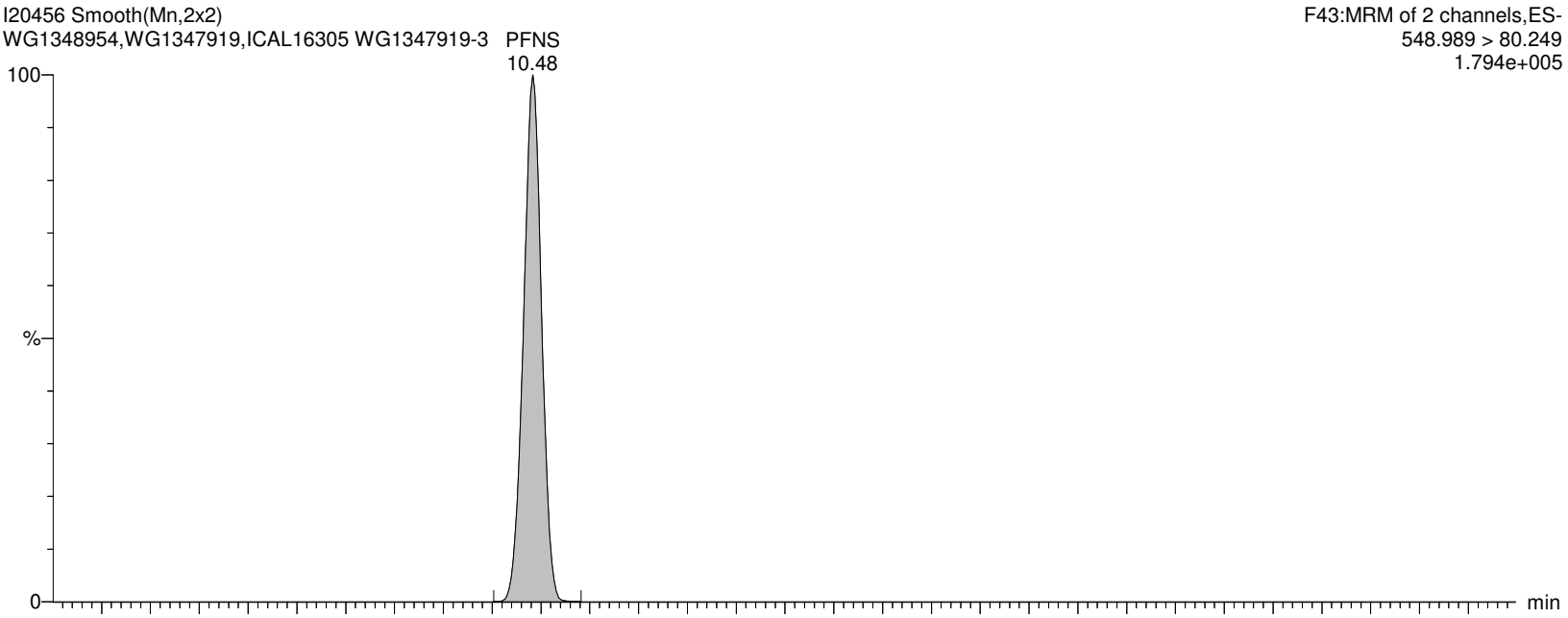

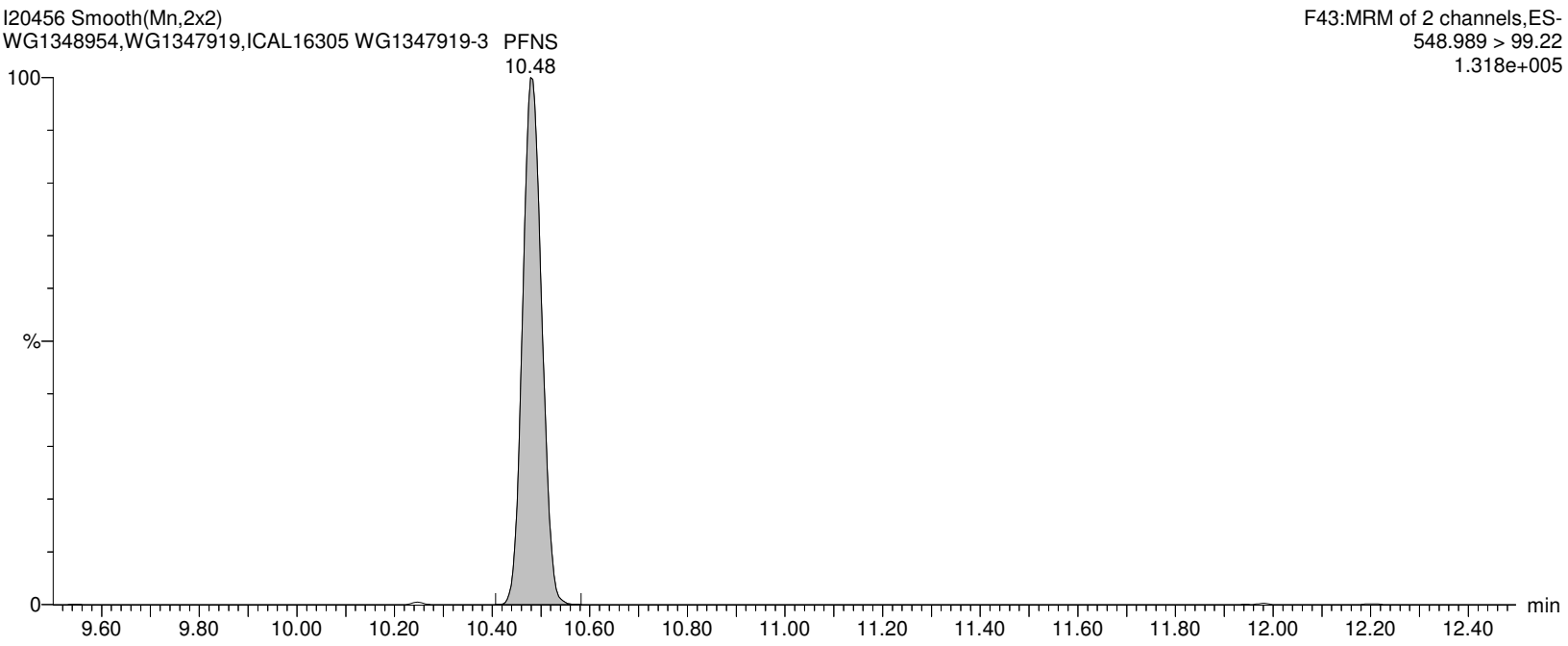

all concentration units in (ng/mL)

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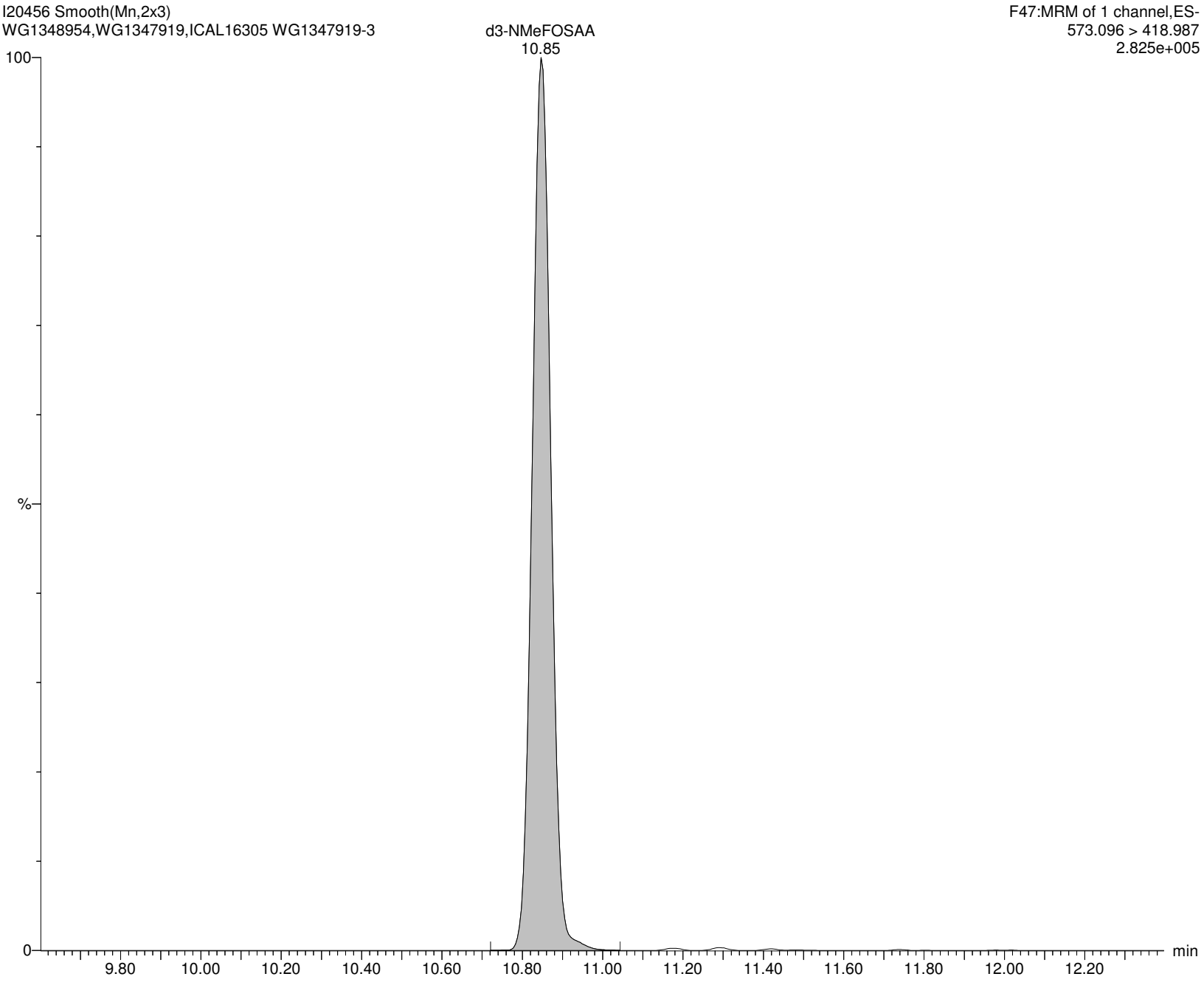

all concentration units in (ng/mL)

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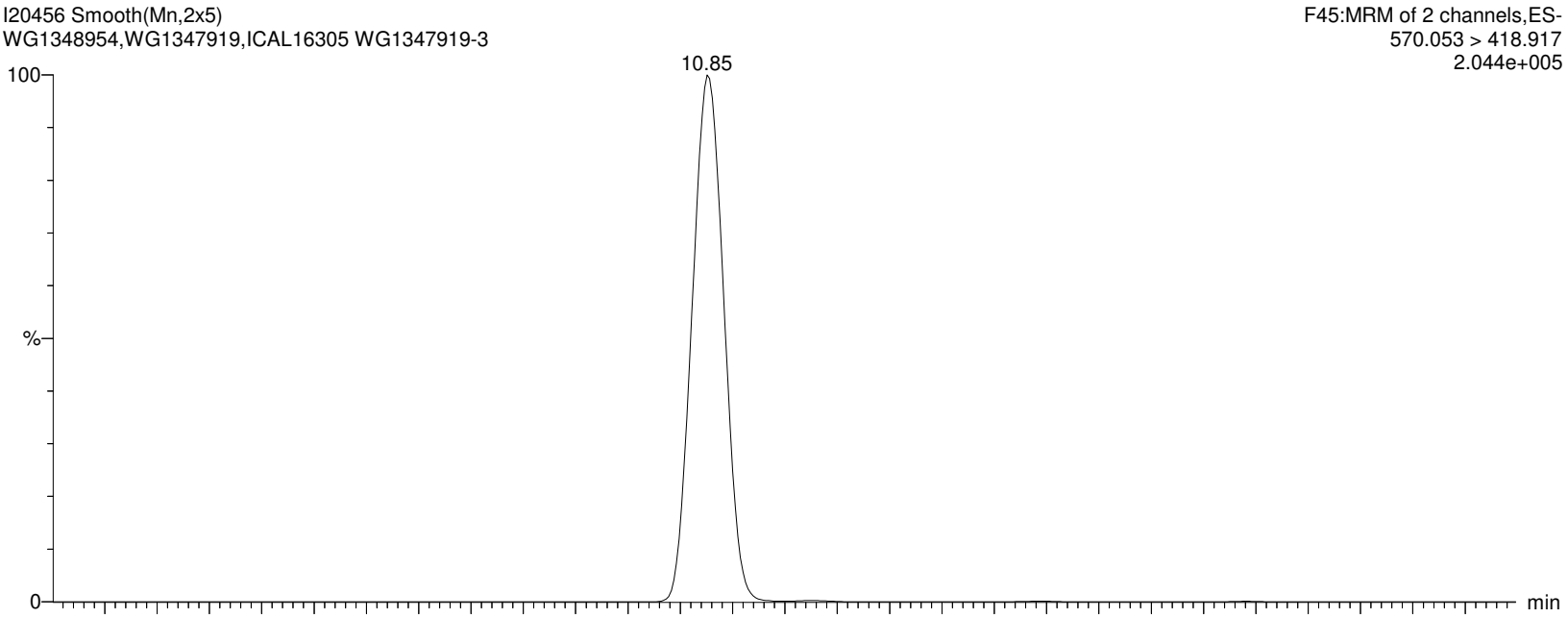
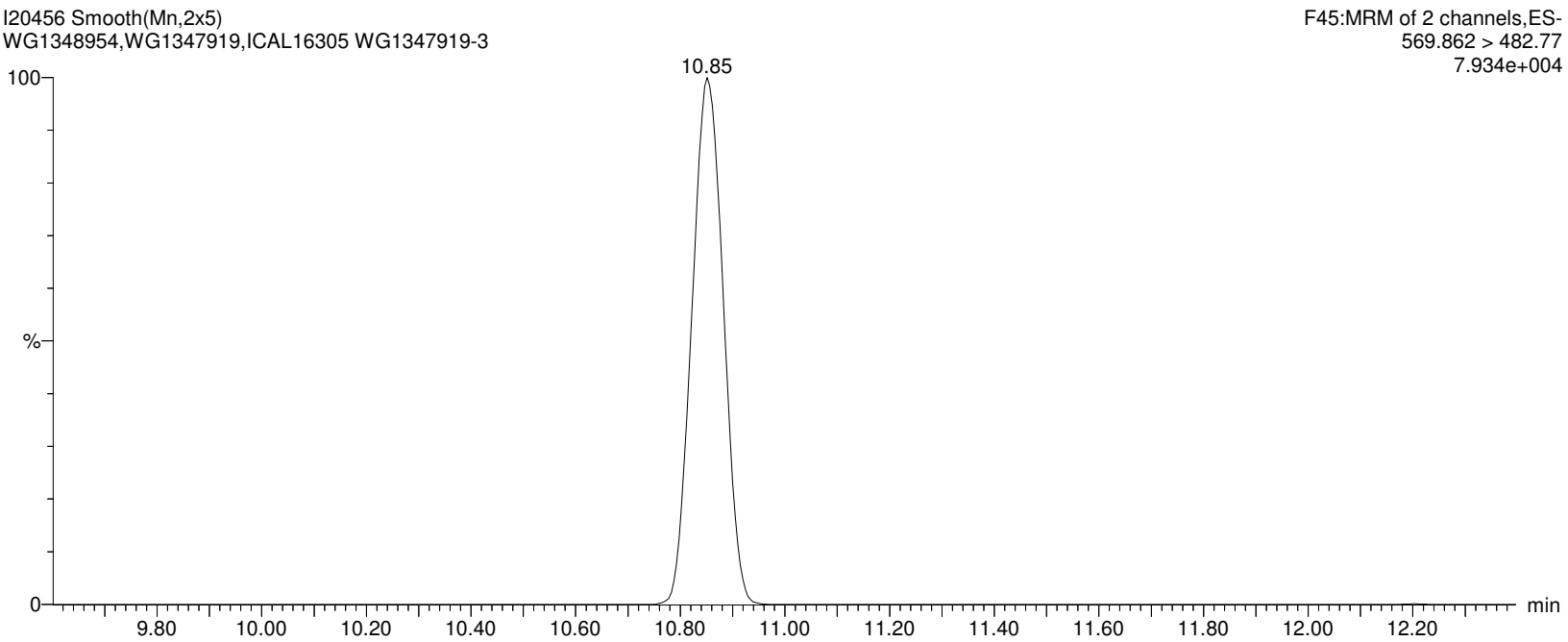
br-NMeFOSAA





all concentration units in (ng/mL)

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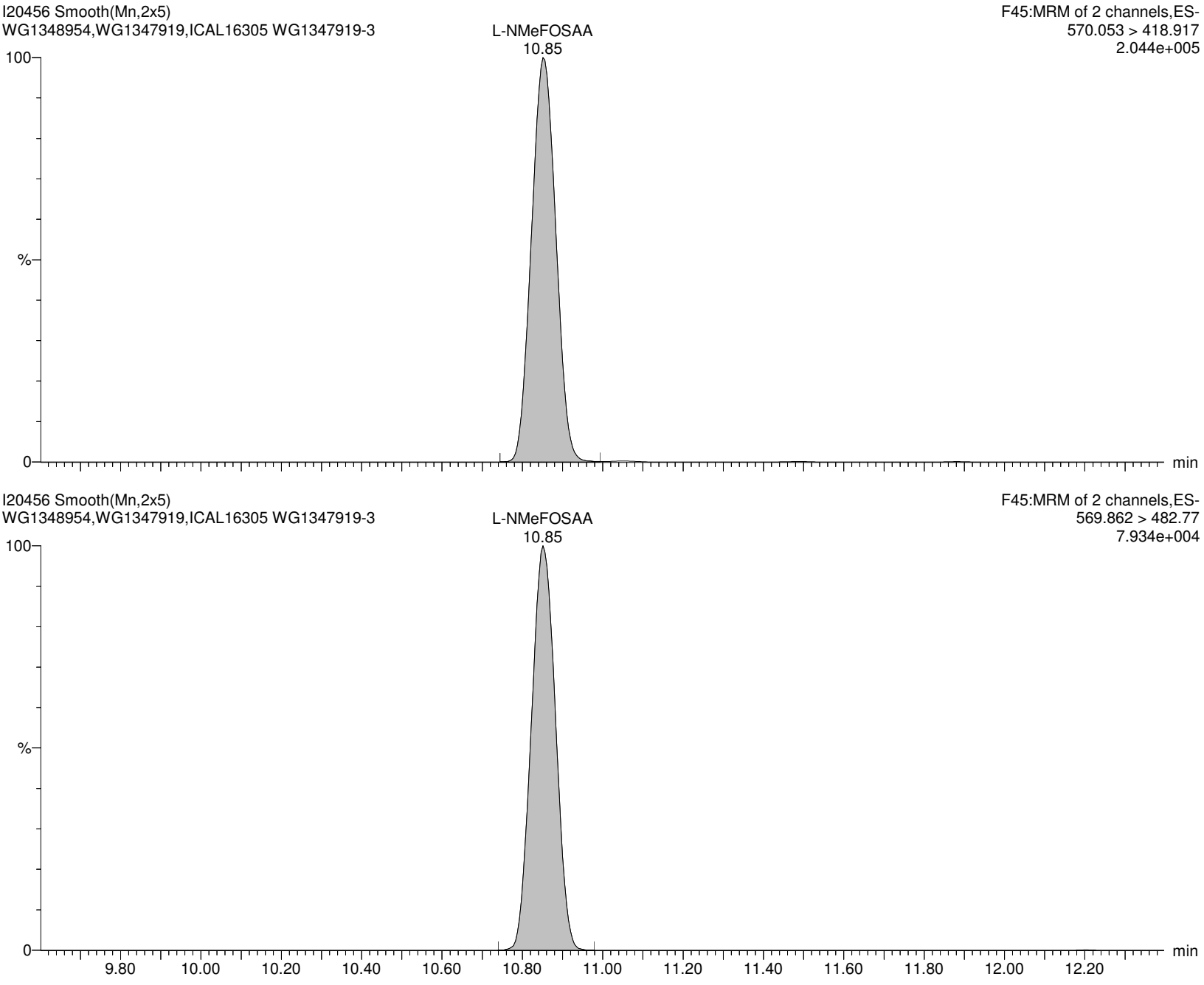
L-NMeFOSAA



all concentration units in (ng/mL)

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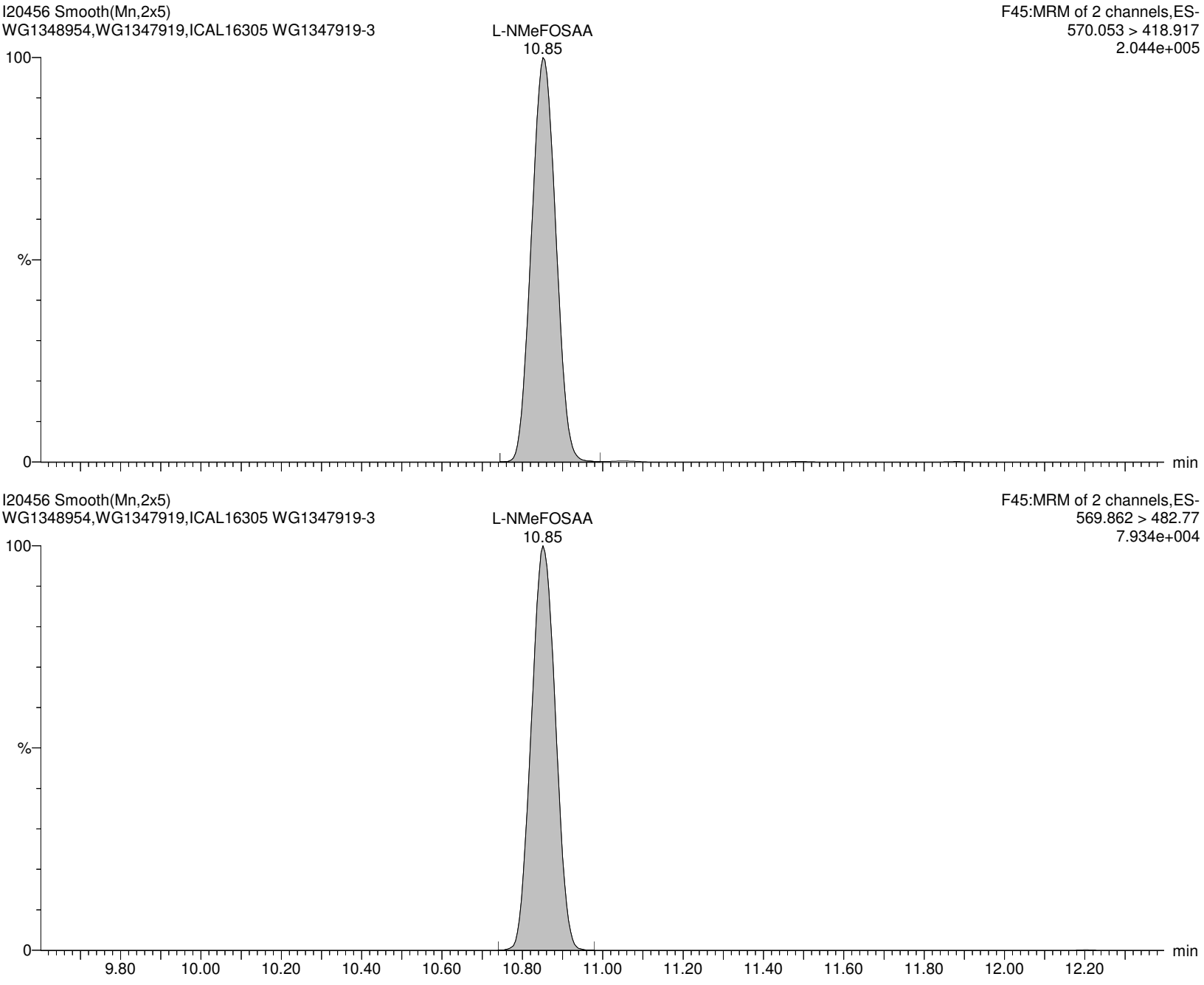

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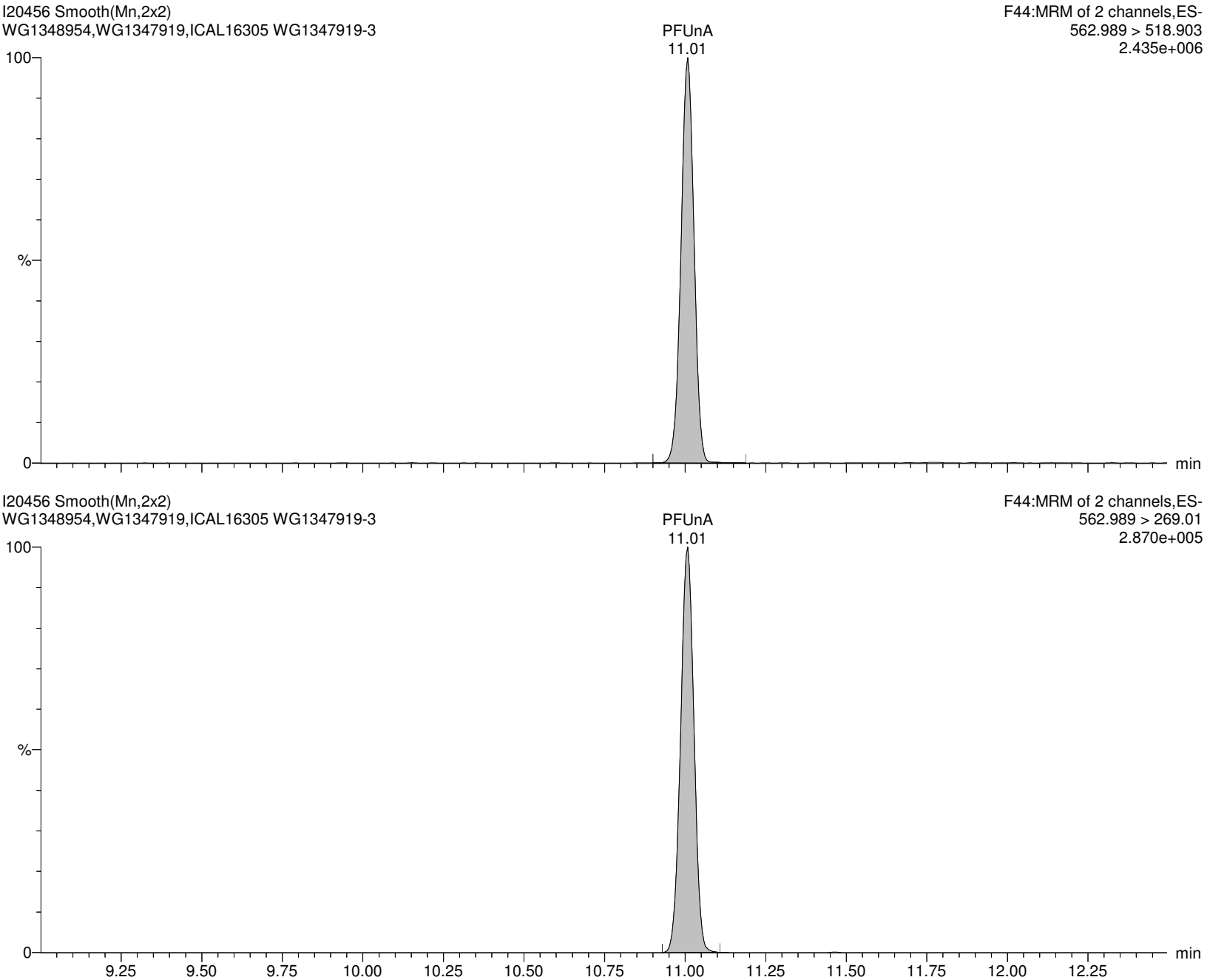

all concentration units in (ng/mL)

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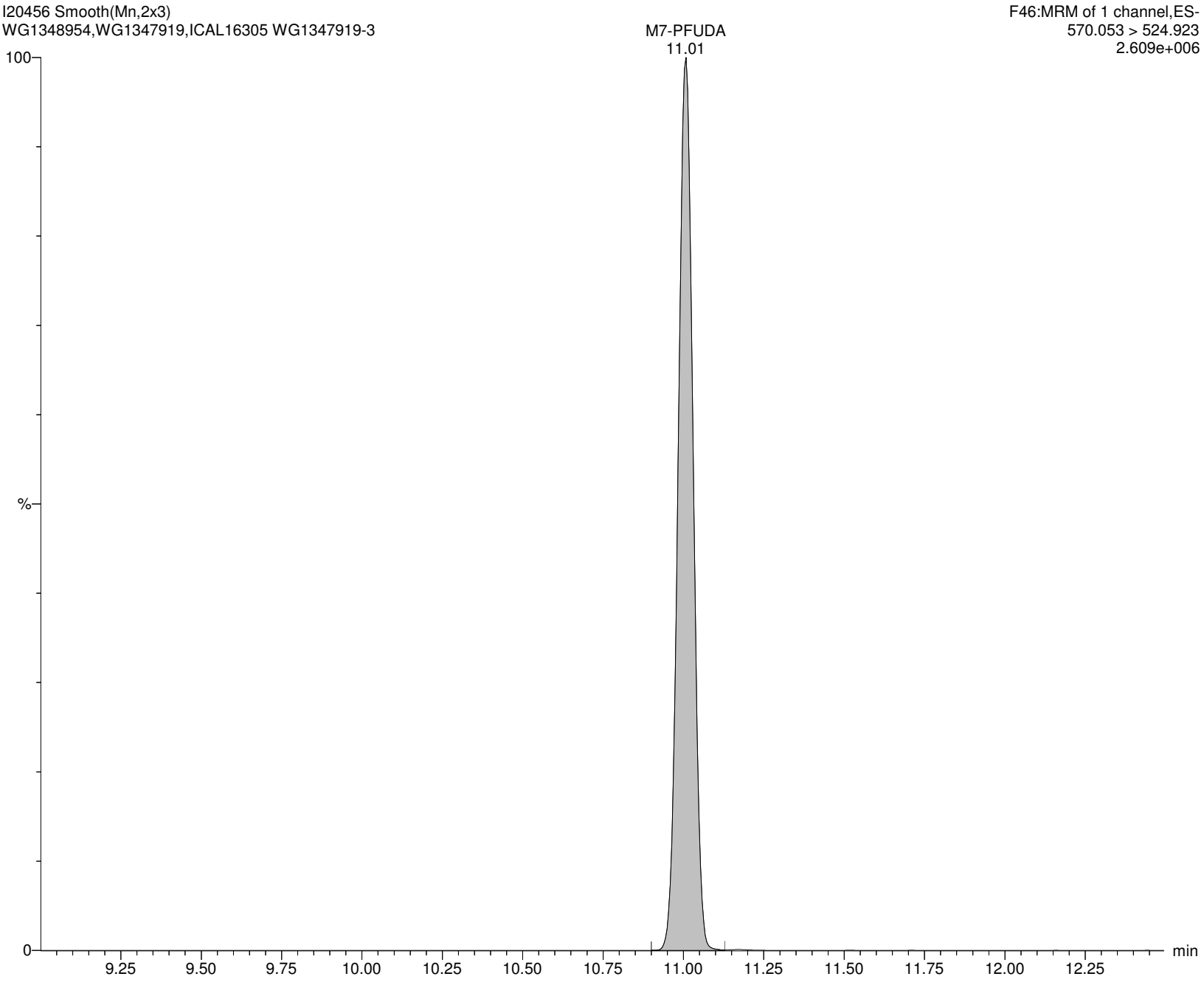

all concentration units in (ng/mL)

Alpha Analytical Inc.
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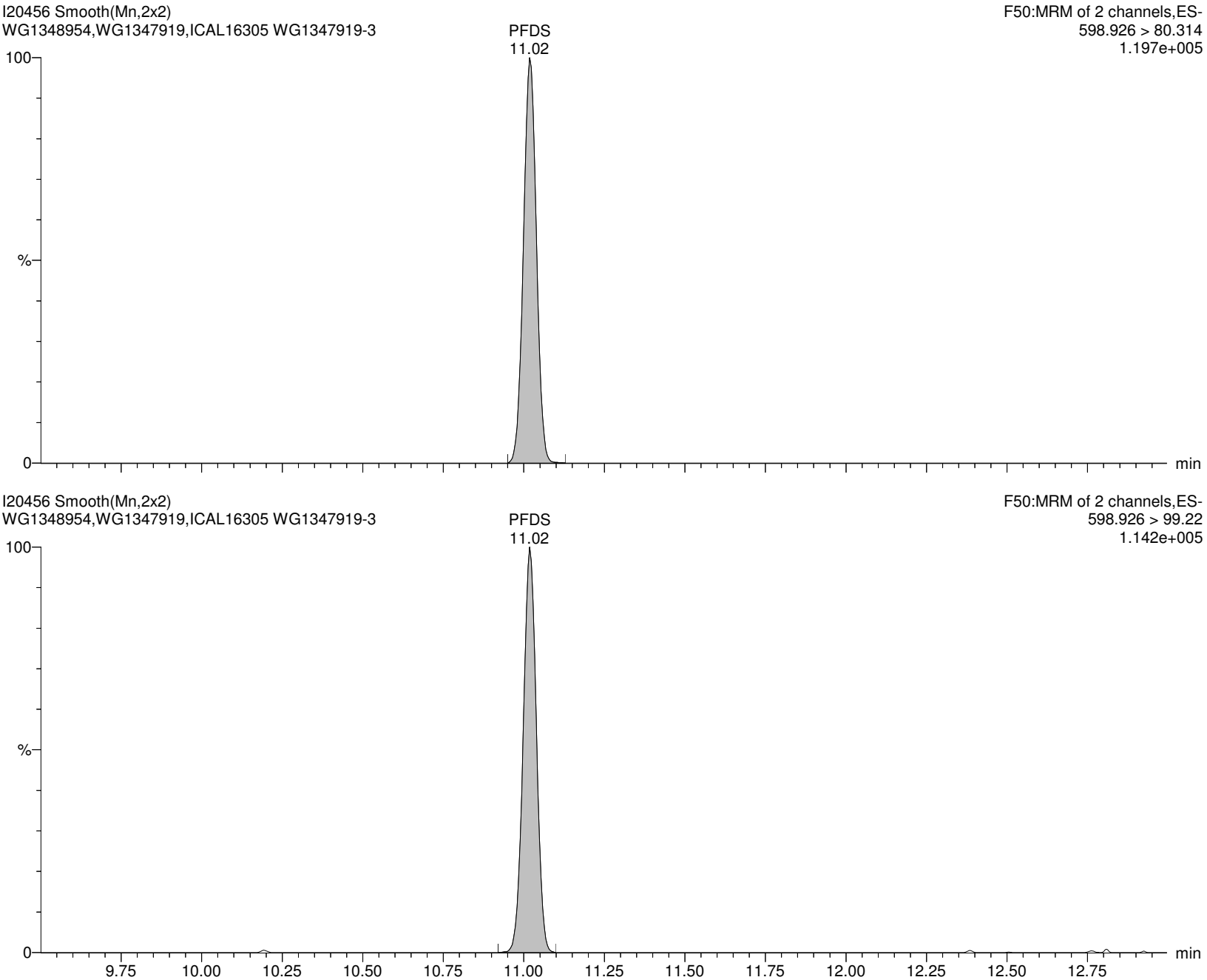

all concentration units in (ng/mL)

Alpha Analytical Inc.
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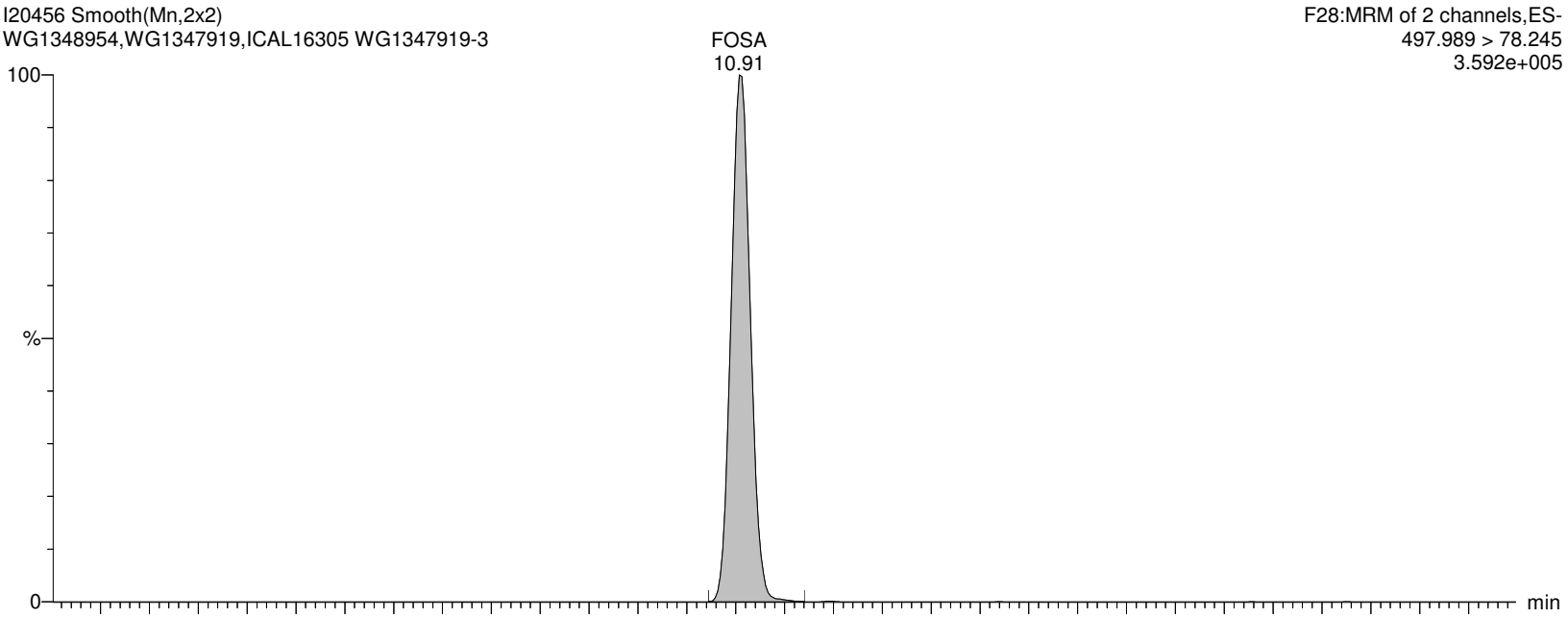

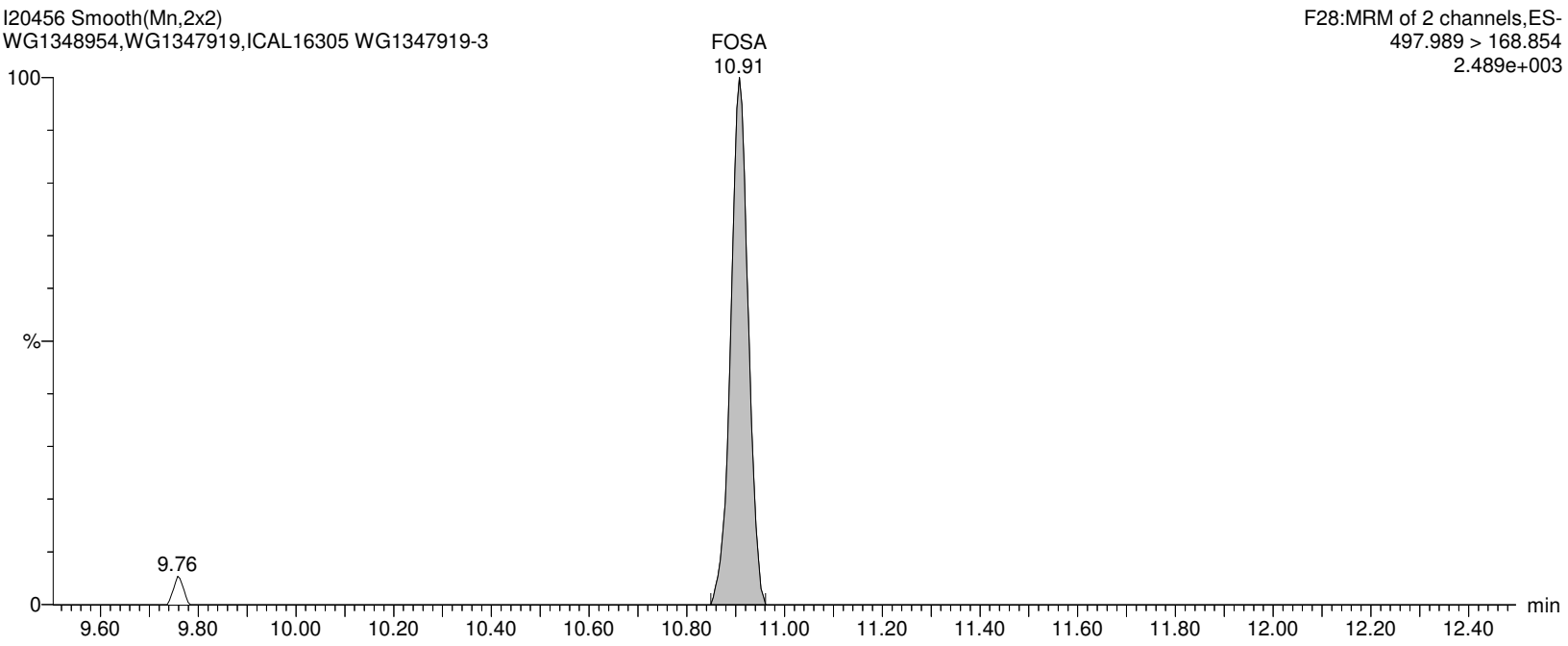

all concentration units in (ng/mL)

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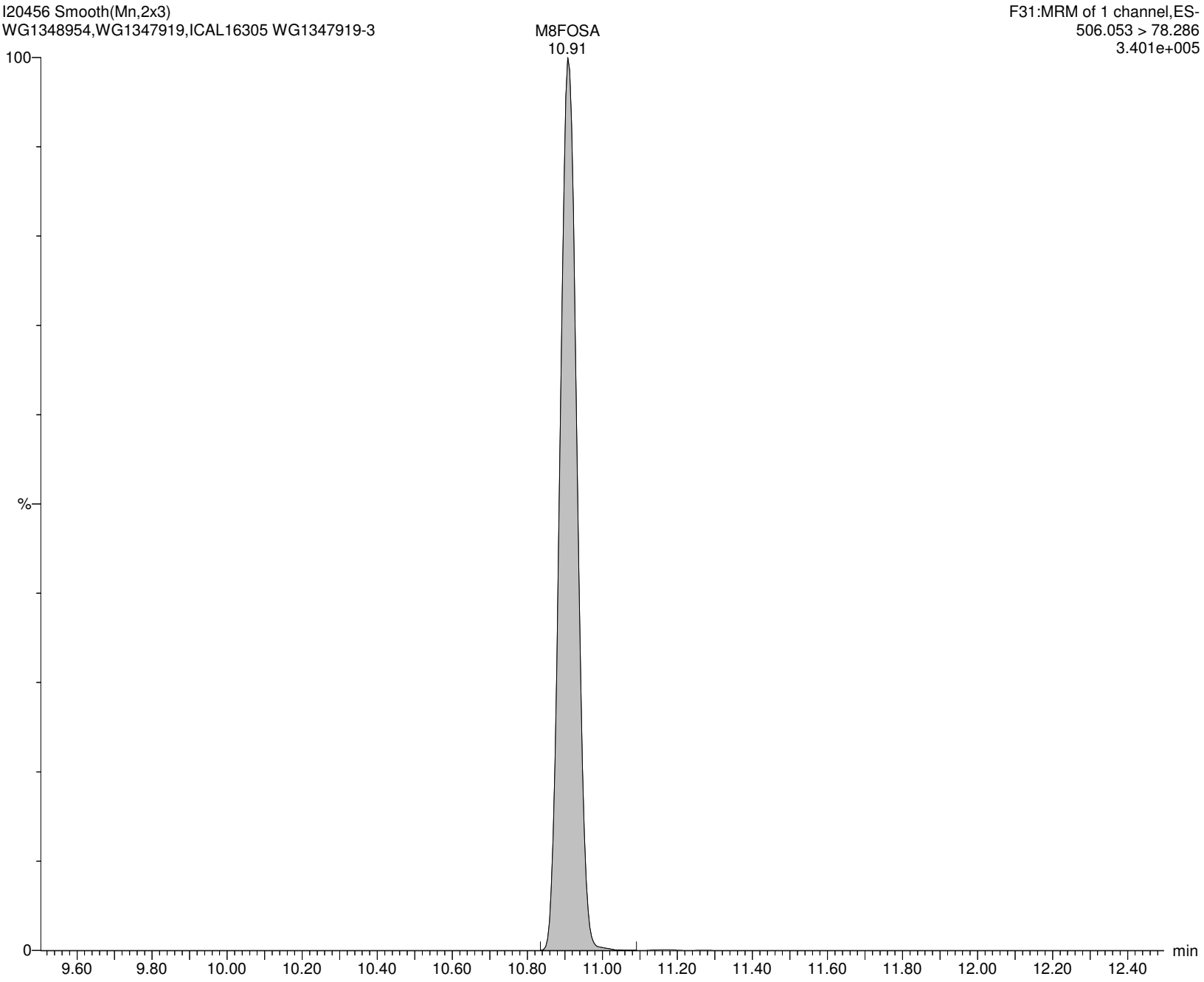

all concentration units in (ng/mL)

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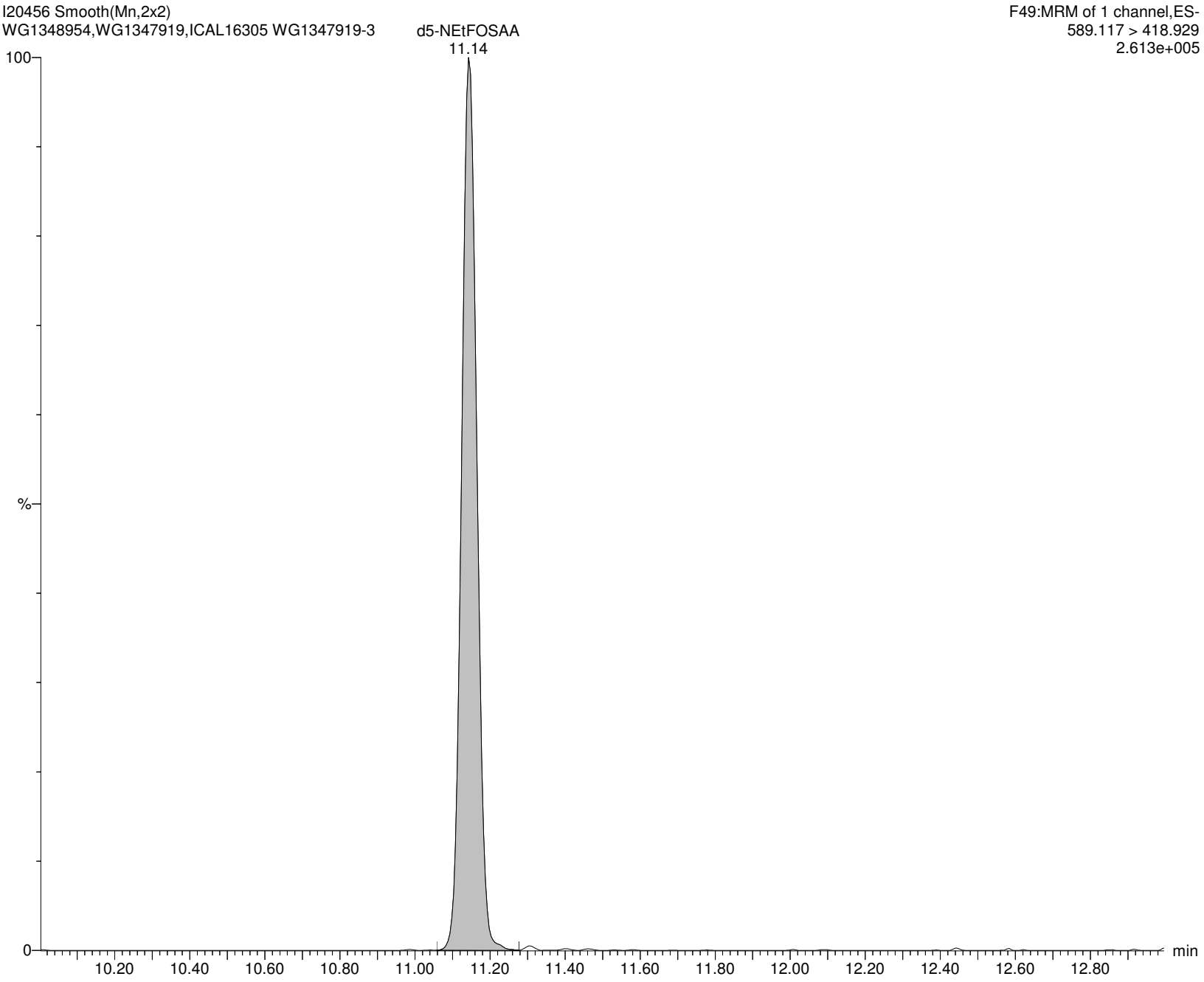

all concentration units in (ng/mL)

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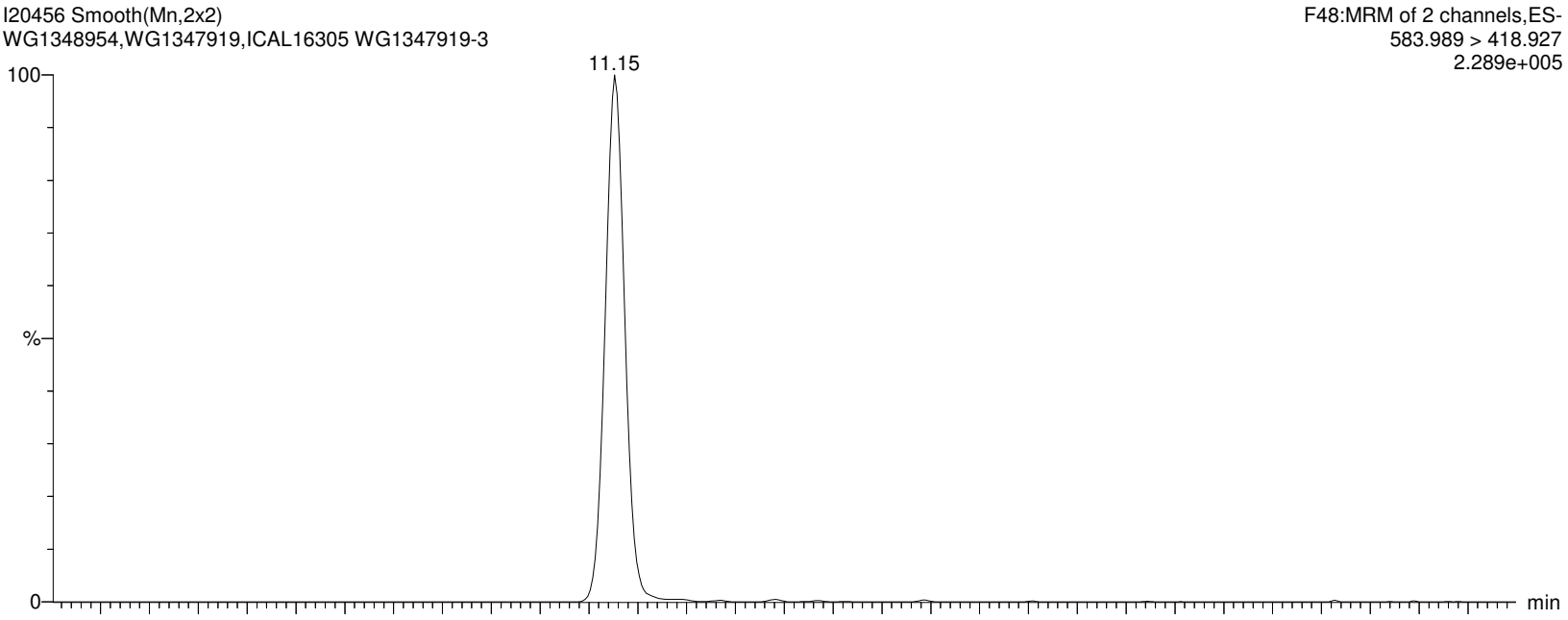

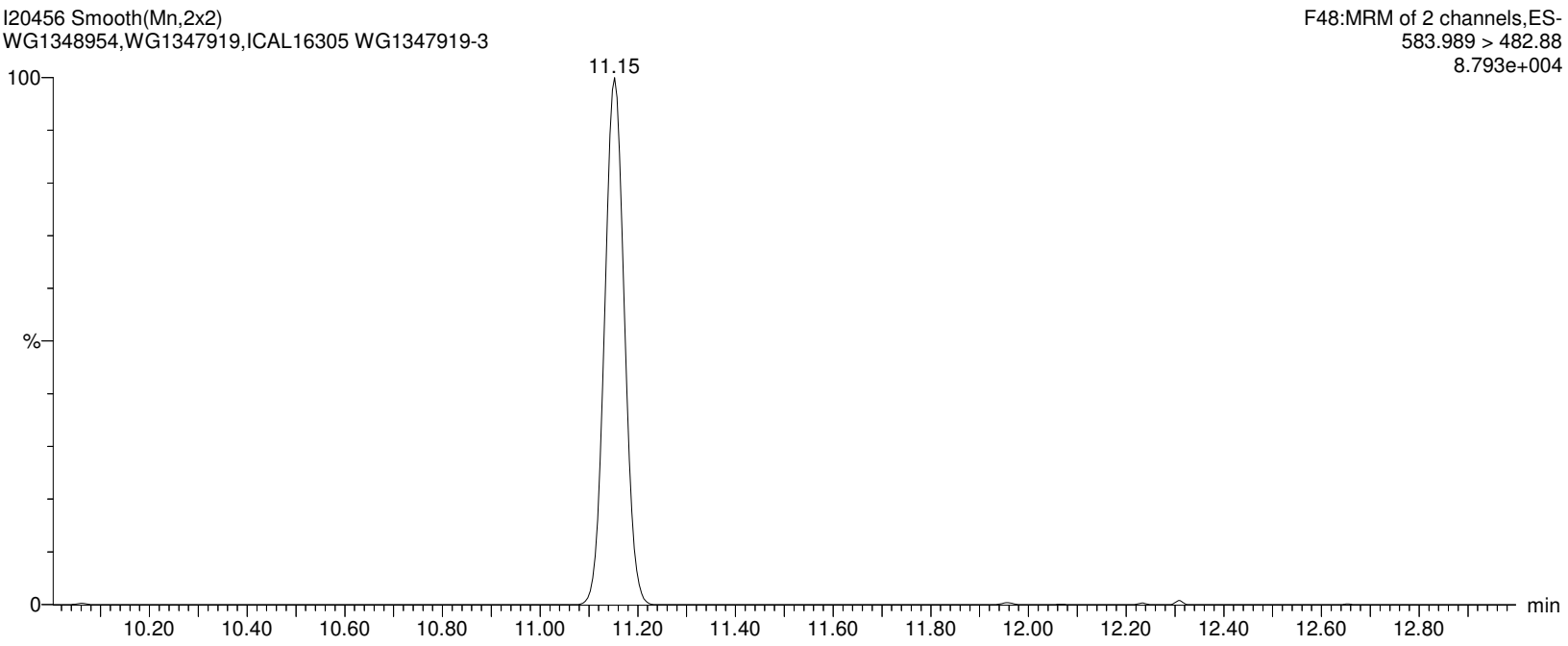

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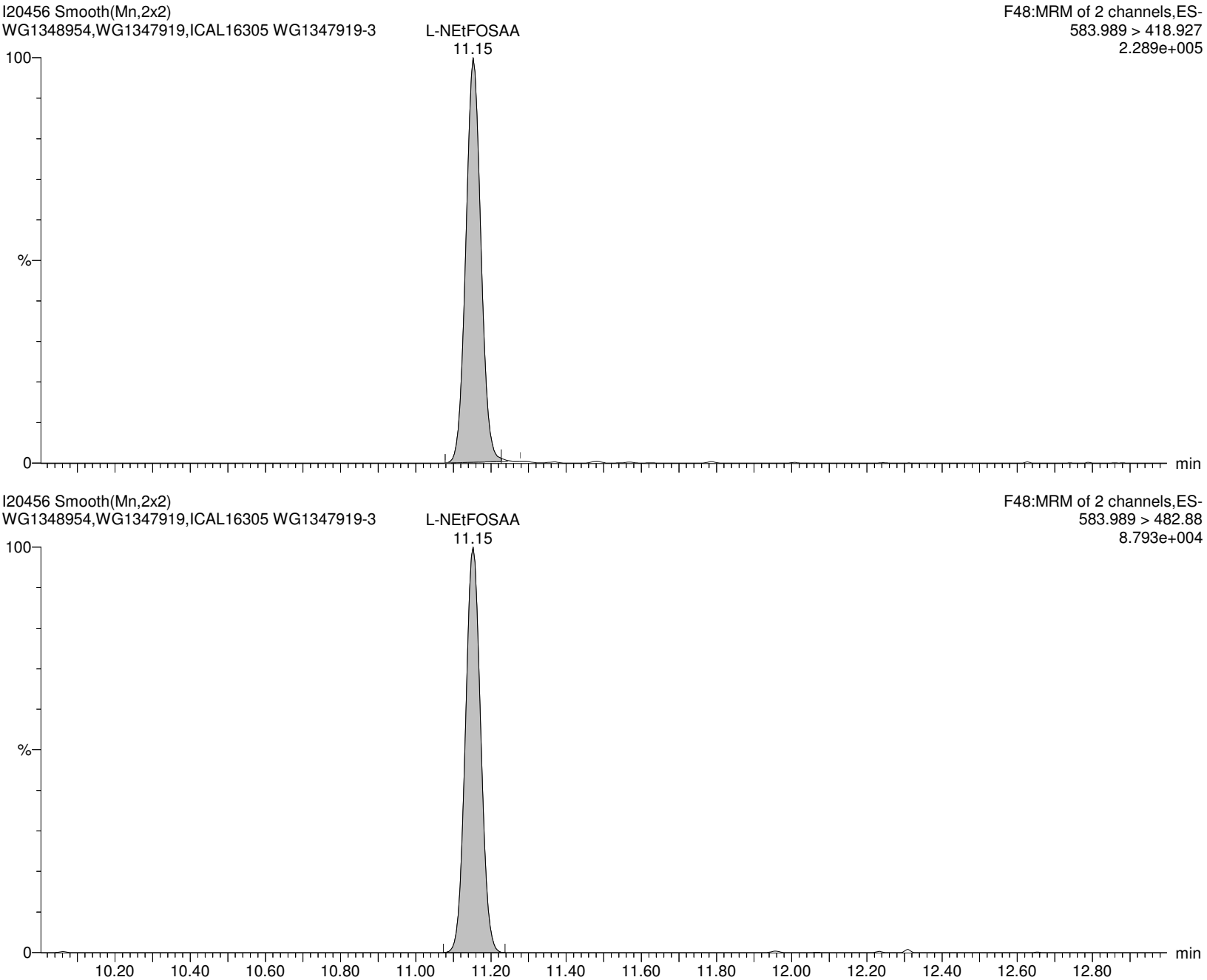

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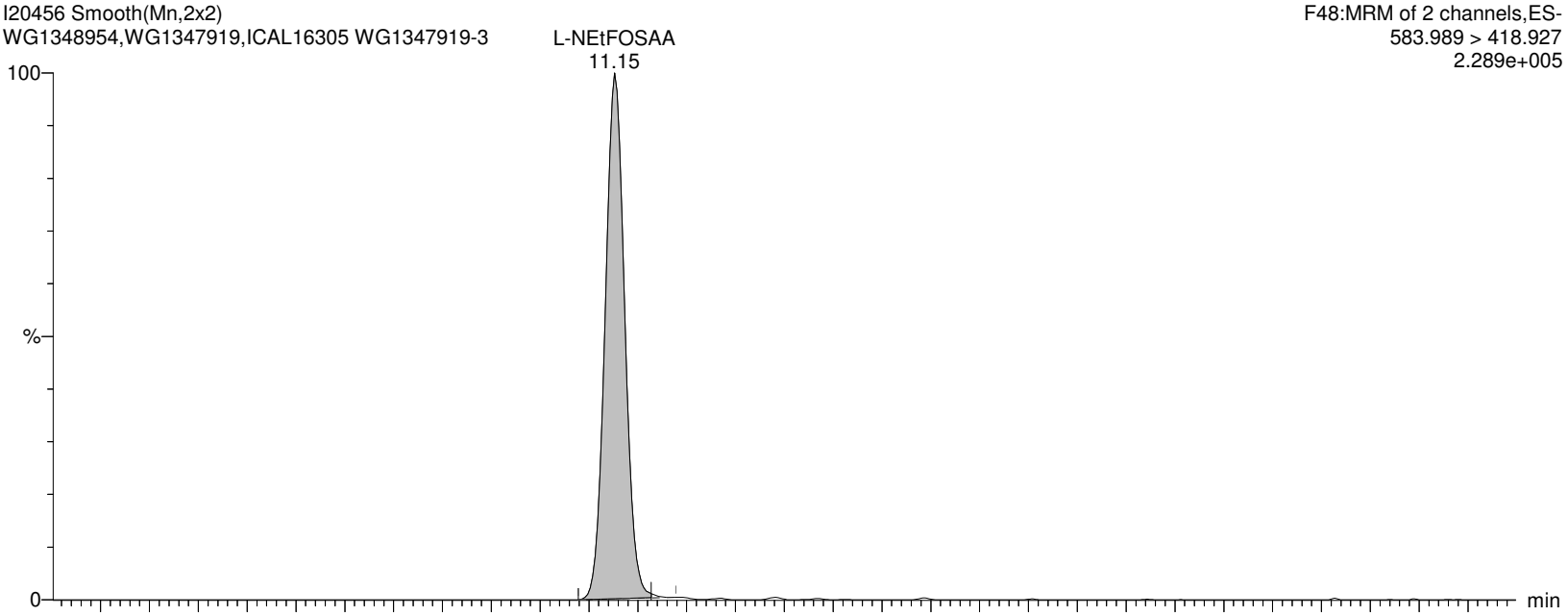
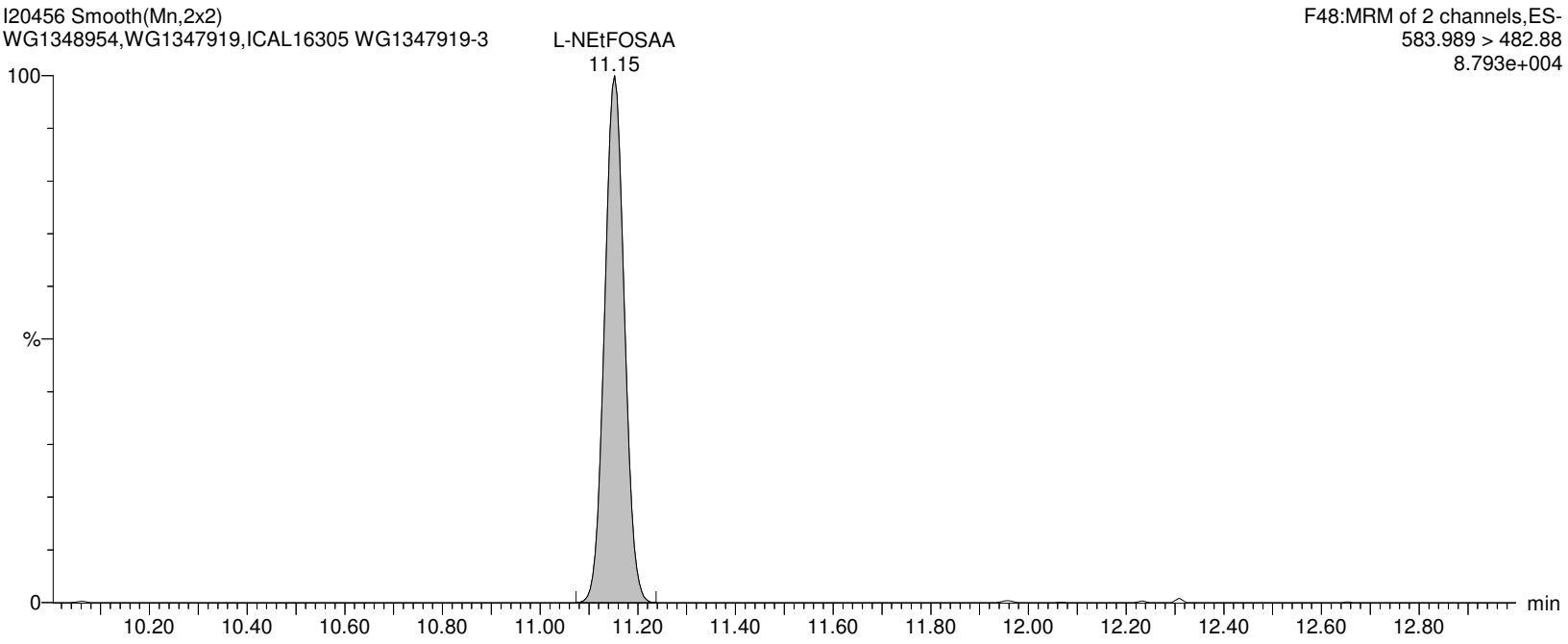
NEtFOSAA





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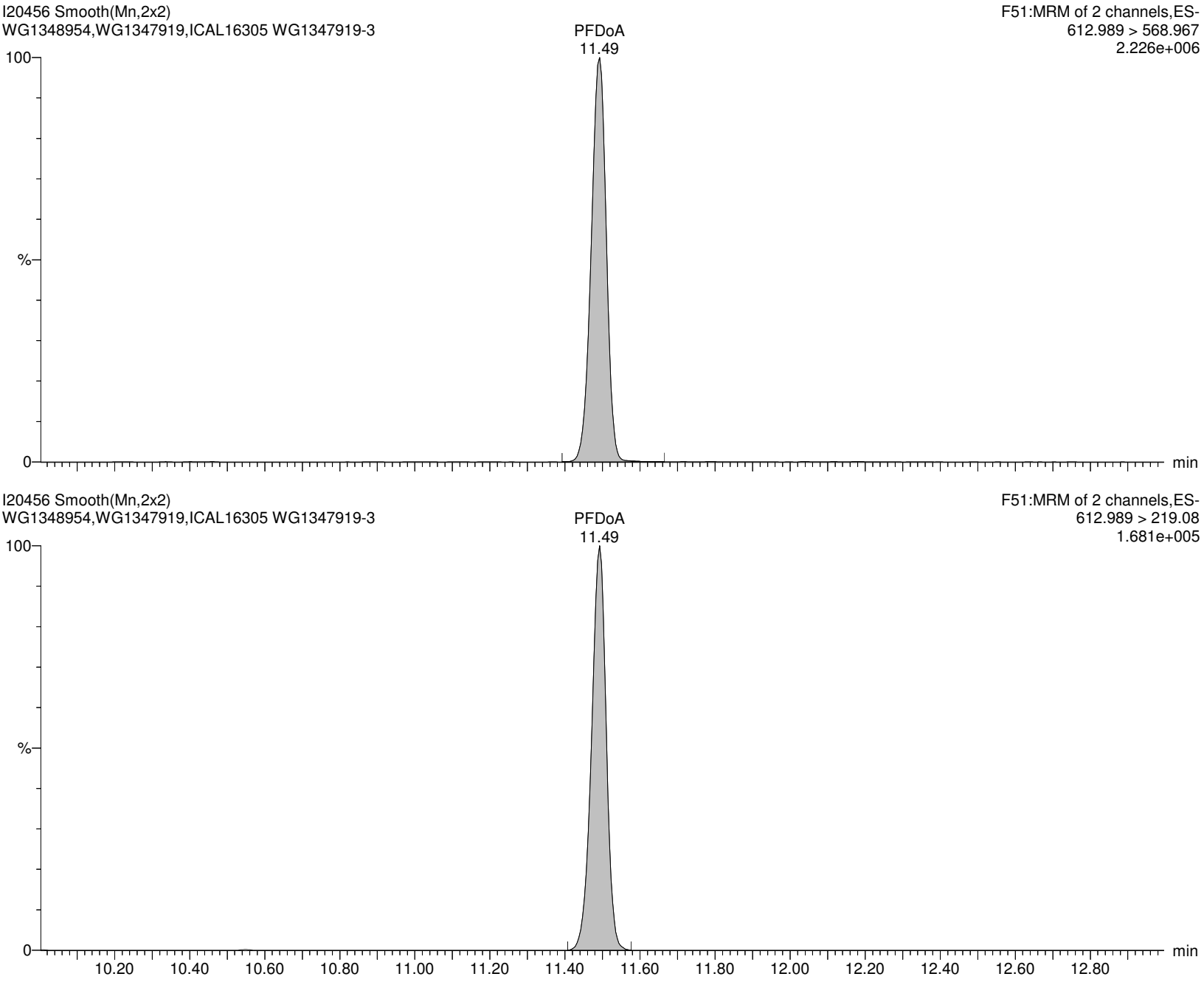
PFDoA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2020\200309_537ISO.PRO\Data\WG1348954D.qld
Last Altered: Wednesday, March 11, 2020 22:52:23 Eastern Daylight Time
Printed: Thursday, March 12, 2020 03:26:42 Eastern Daylight Time

Name: I20456
ID: WG1347919-3
Date: 11-Mar-2020
Time: 03:10:43
Description: WG1348954,WG1347919,ICAL16305
User: LCMS02:RS
Vial: 2:B,1
Instrument: XEVO-TQSmicro#QEB0050
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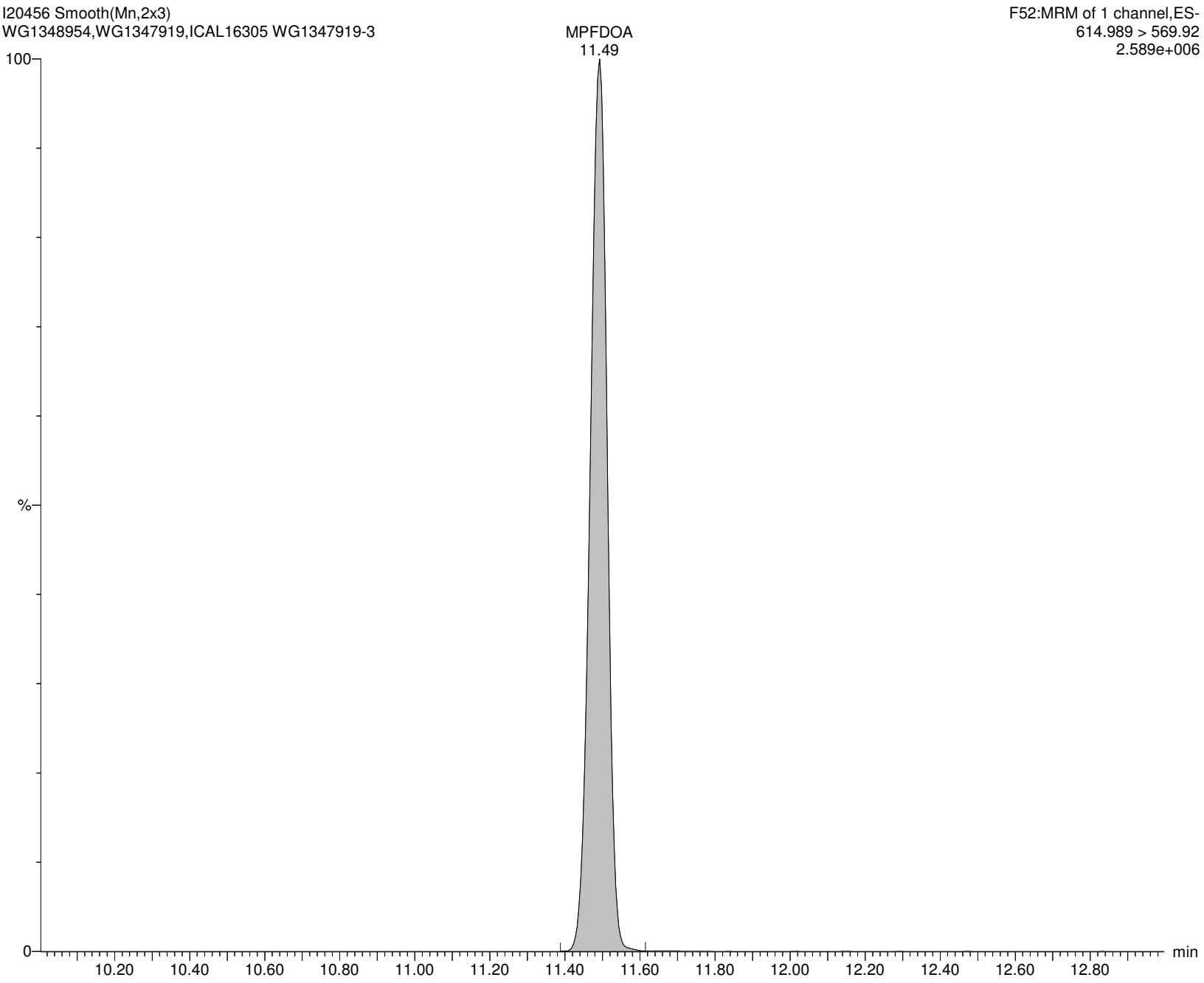

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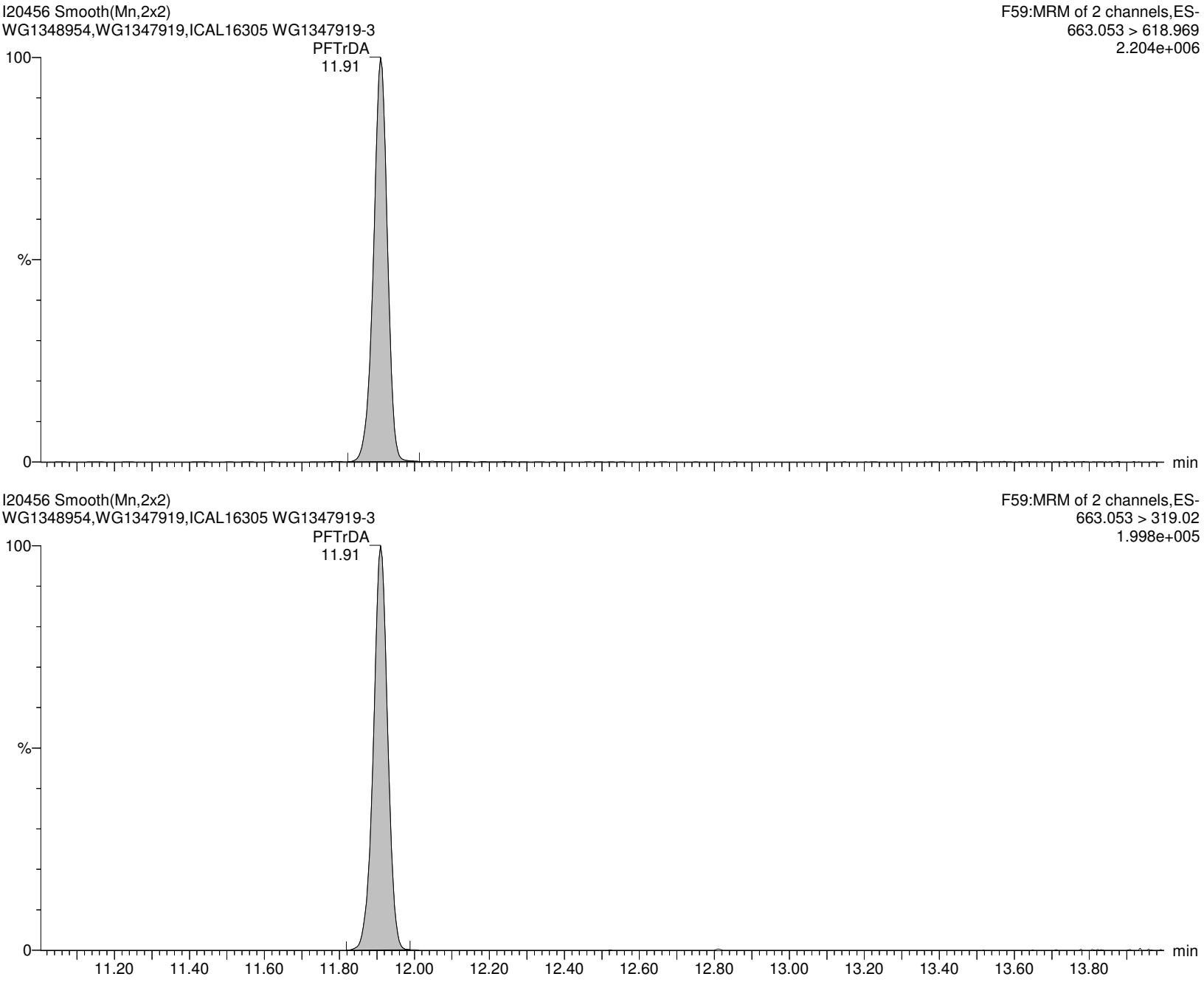

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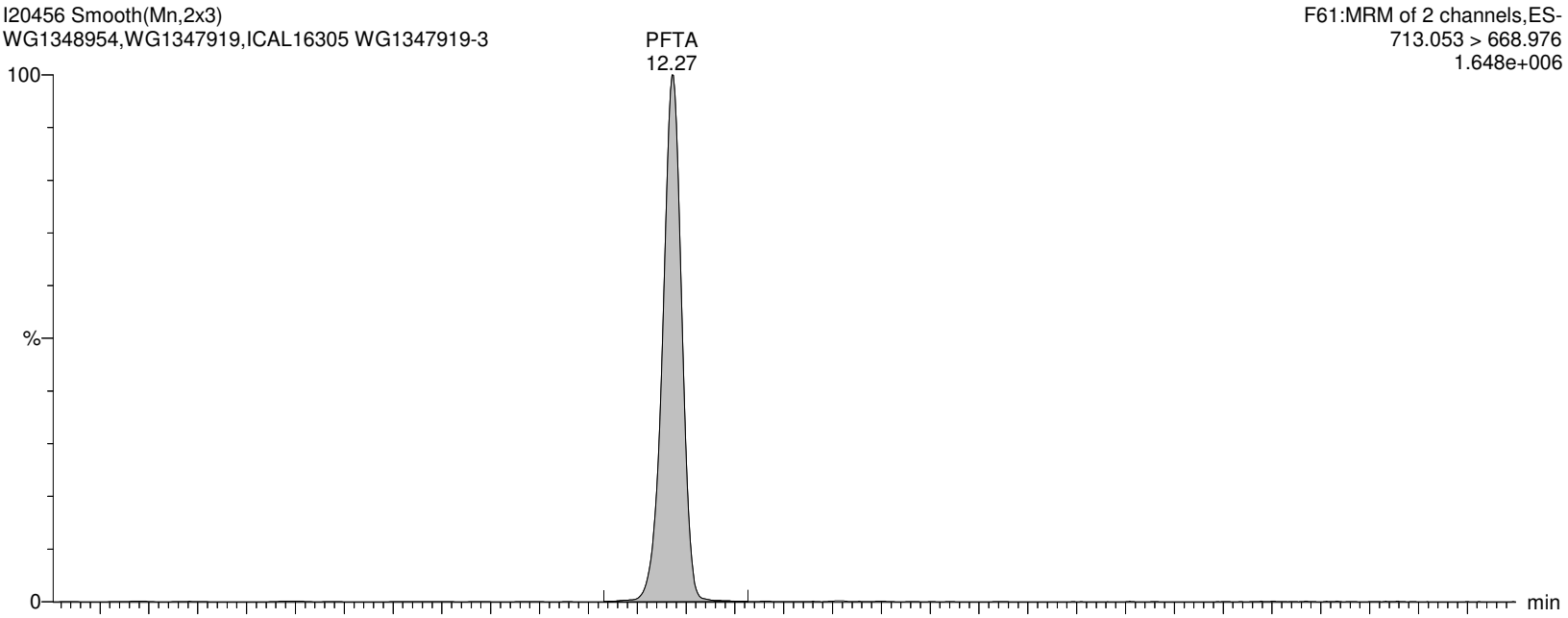

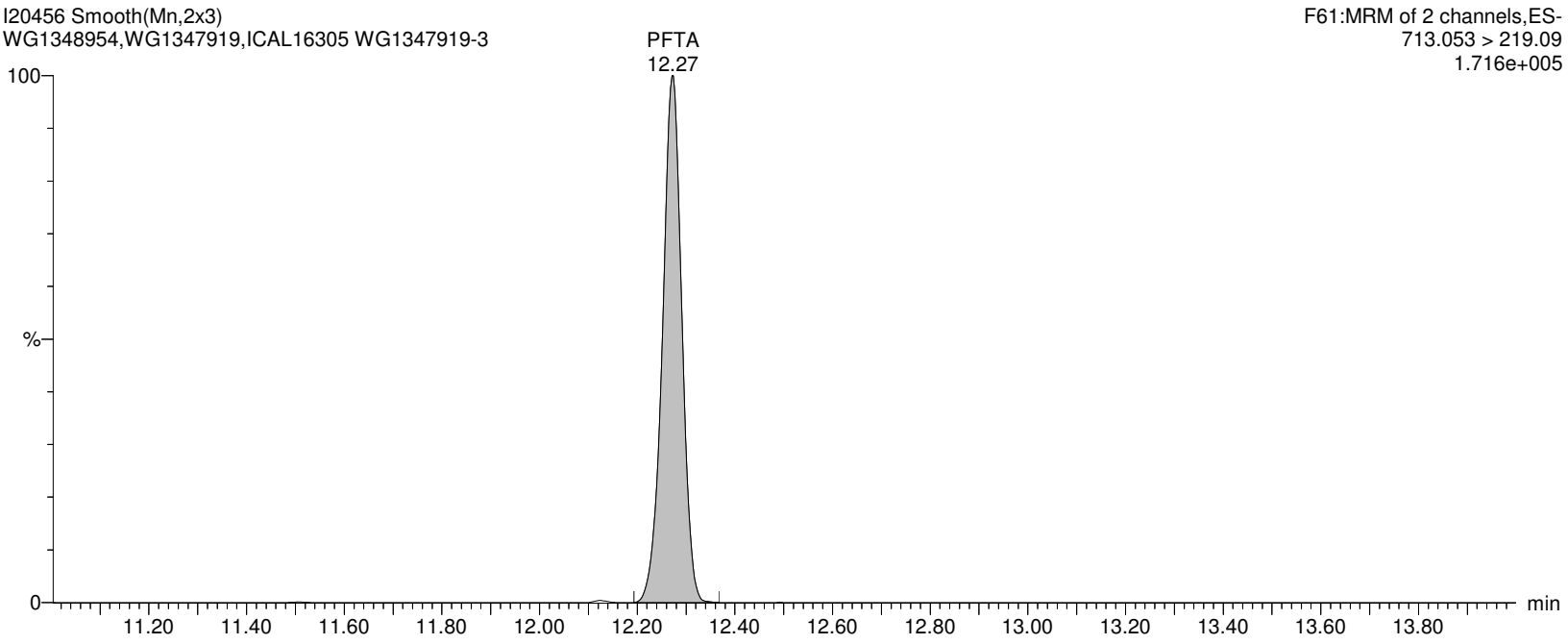

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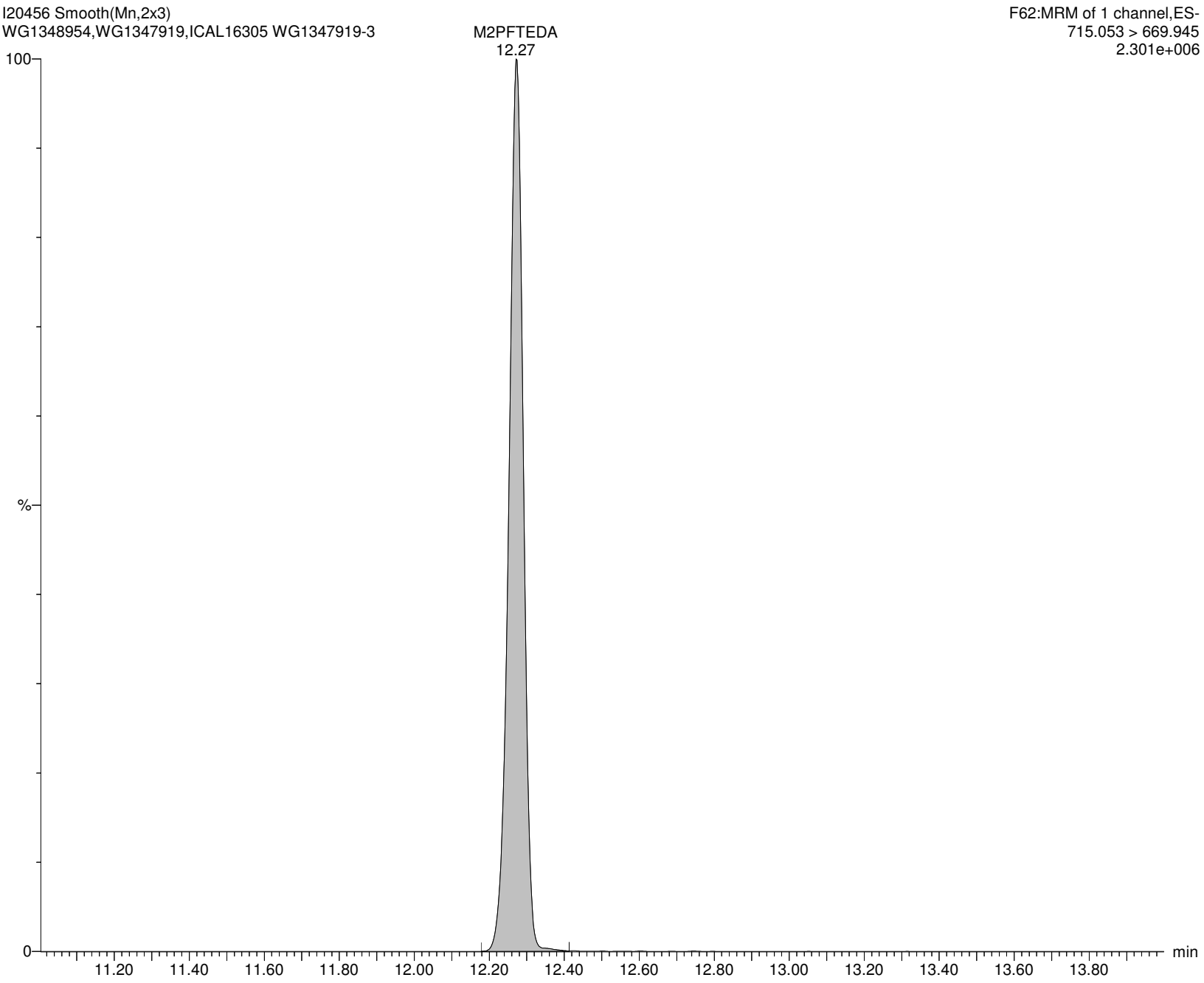

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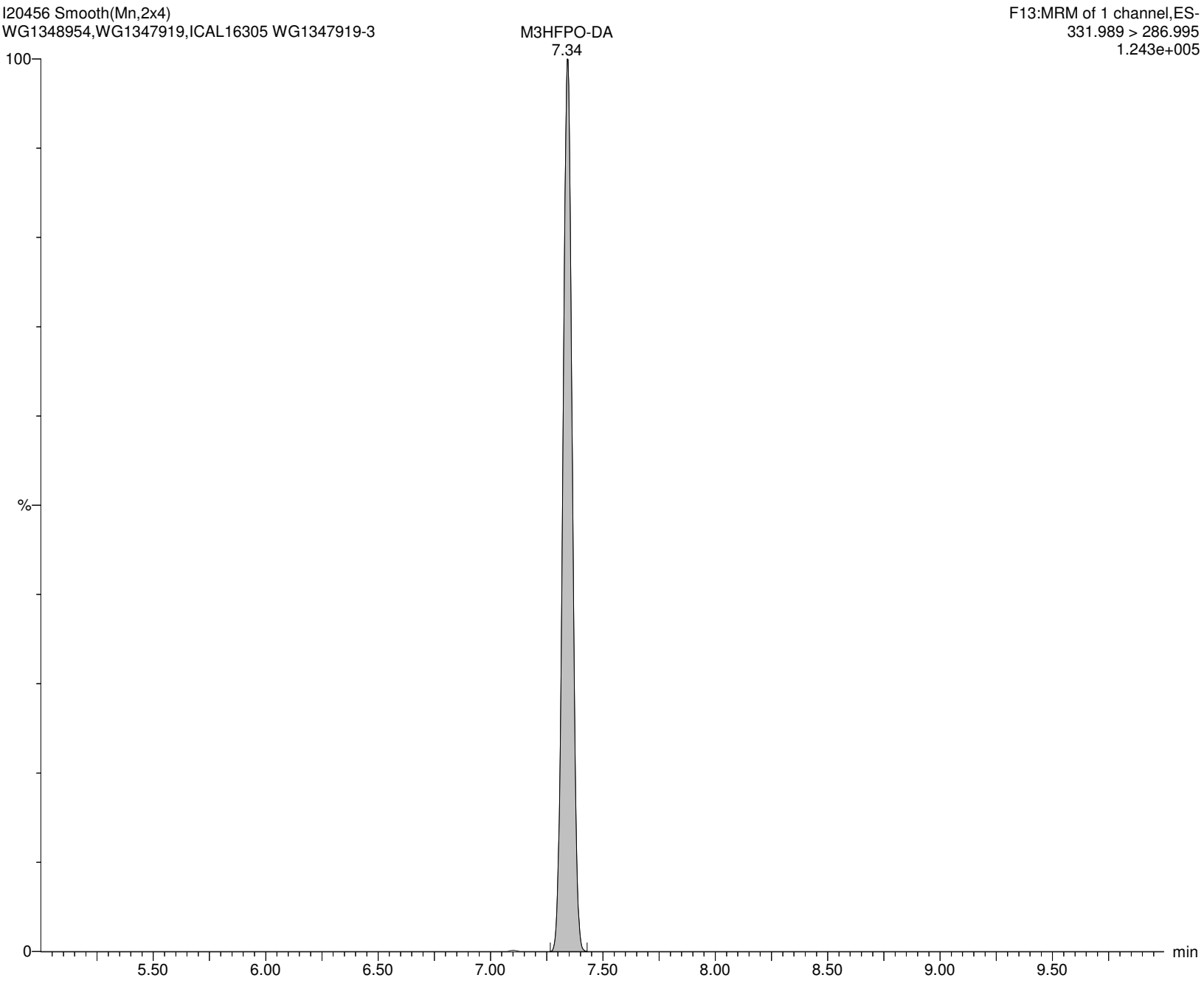
M3HFPO-DA



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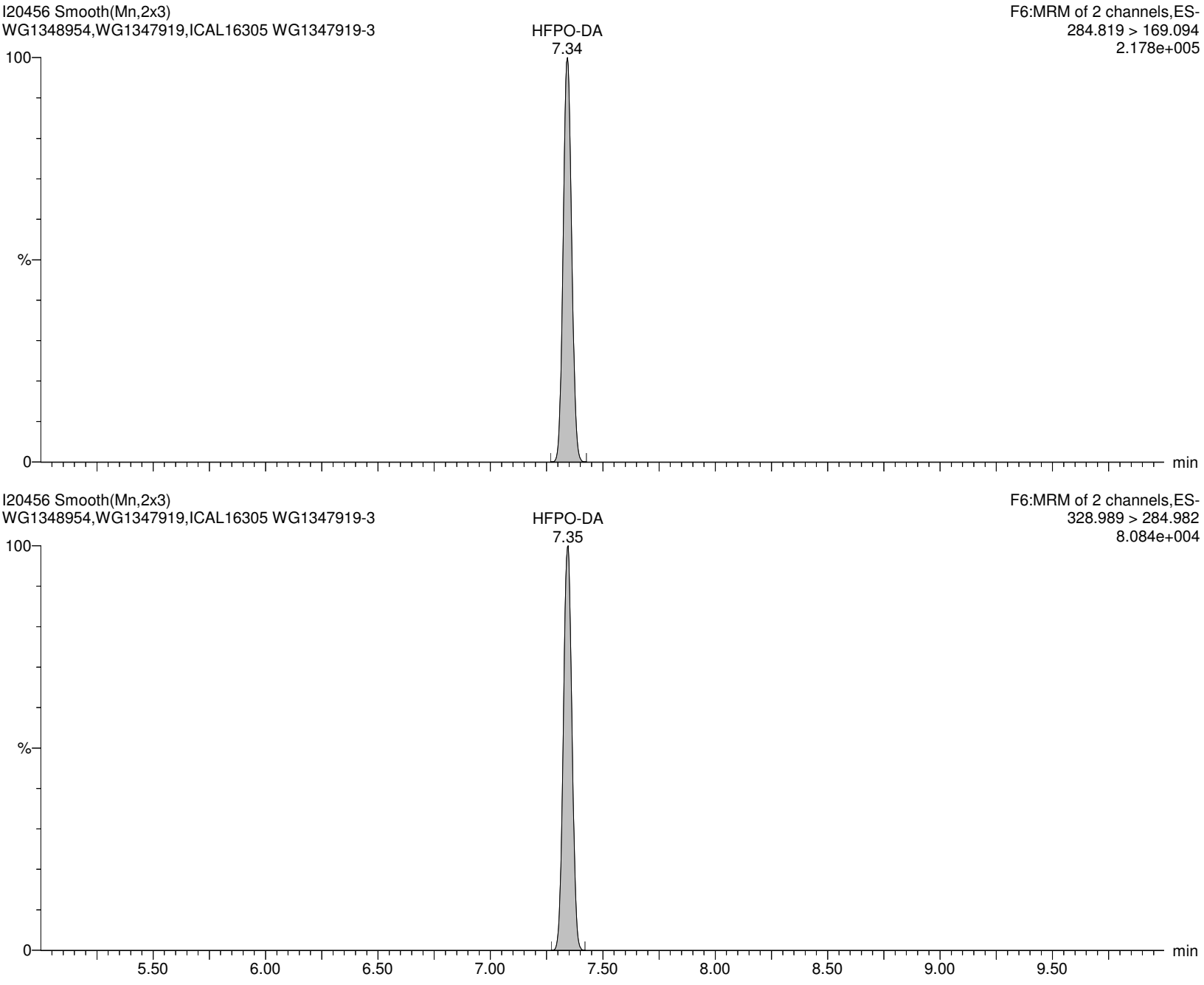
HFPO-DA



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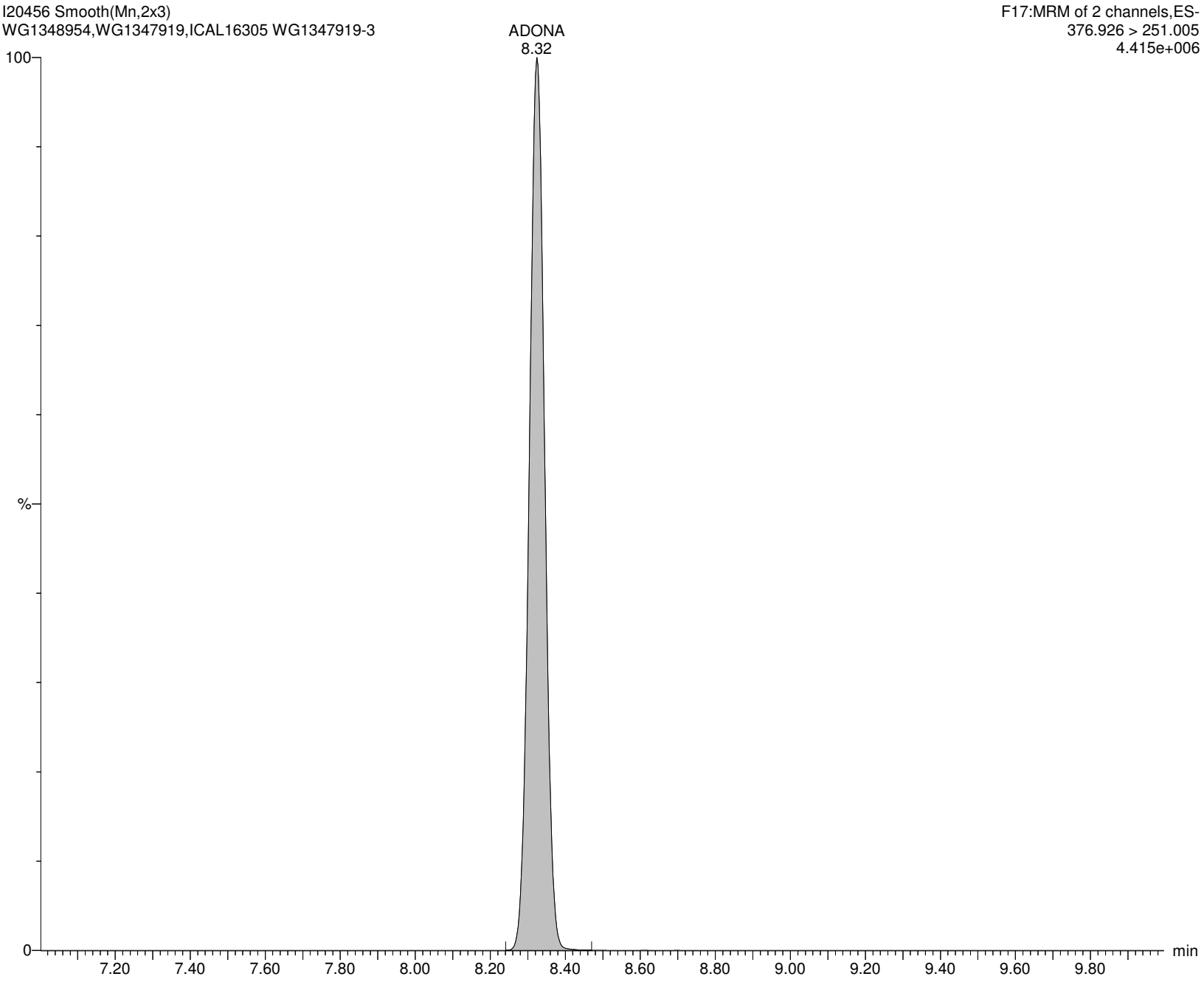

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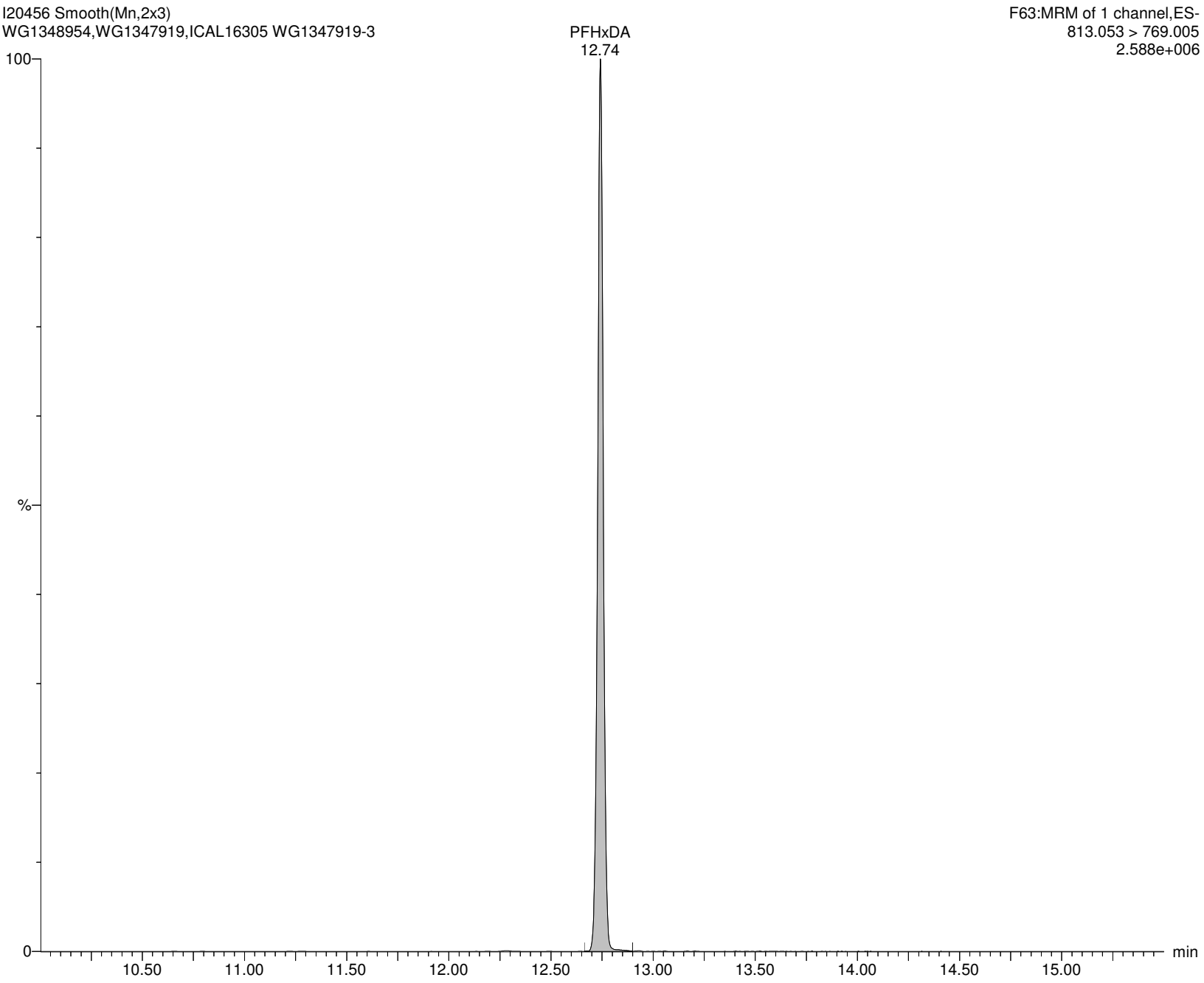

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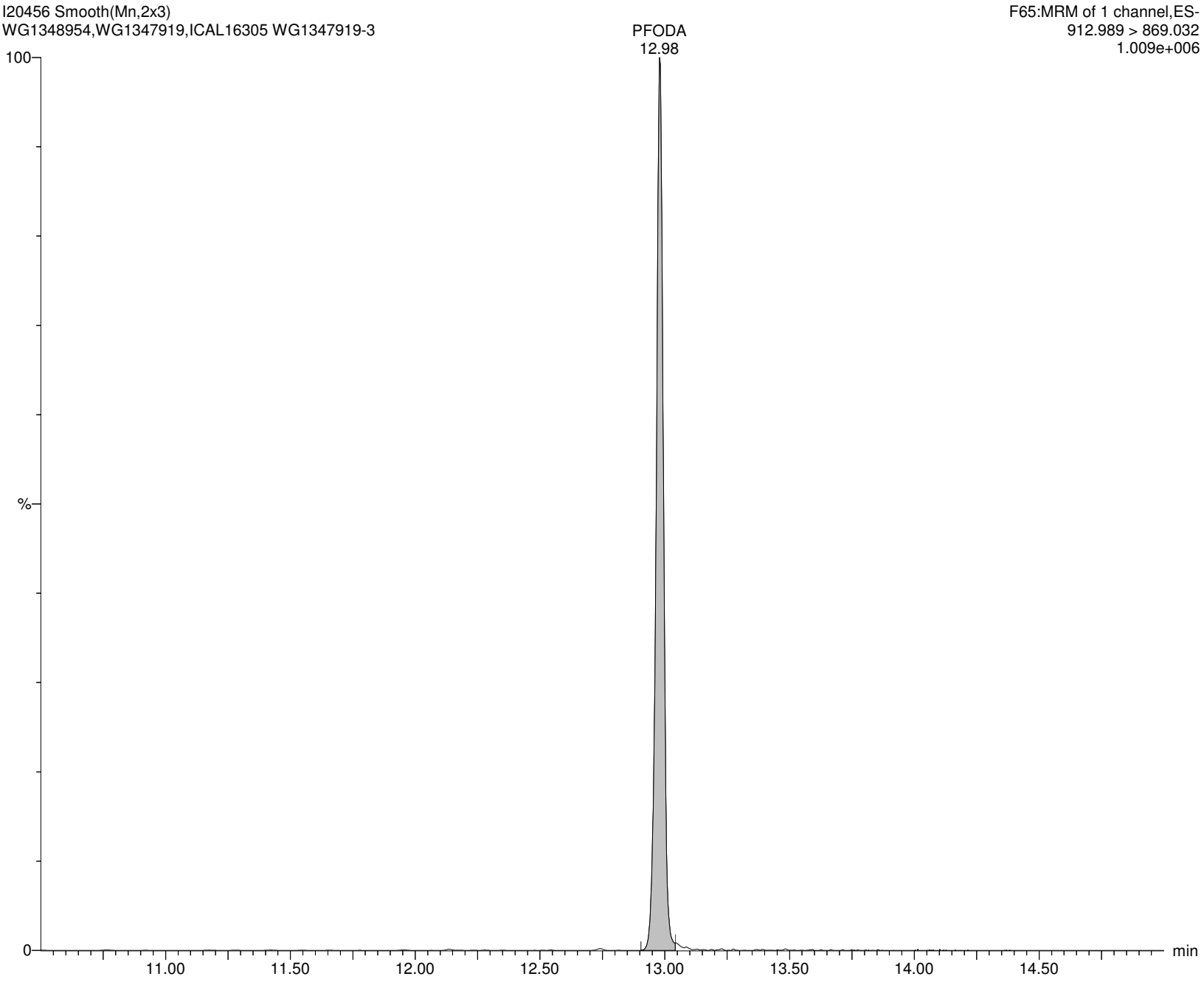

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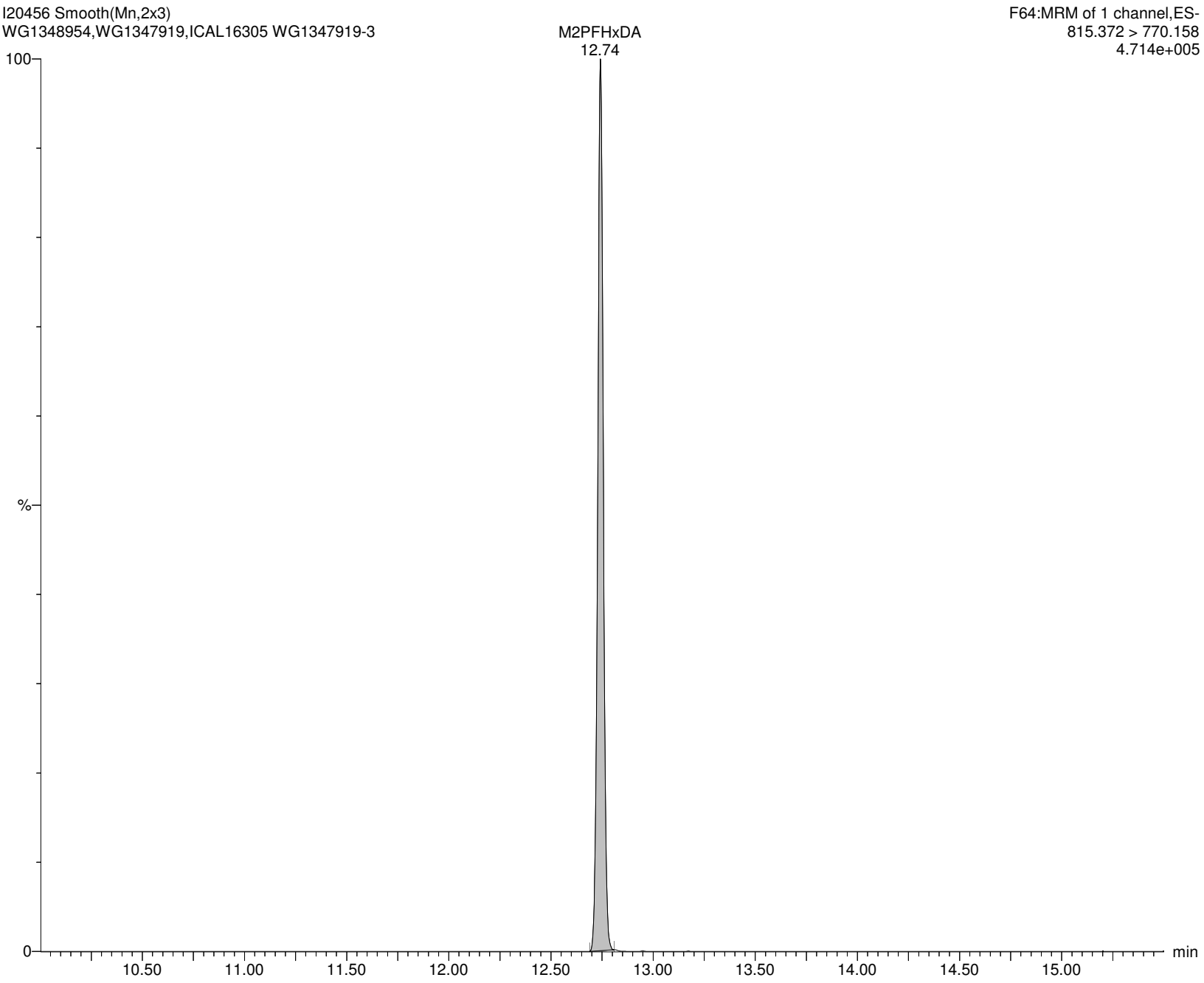

all concentration units in (ng/mL)

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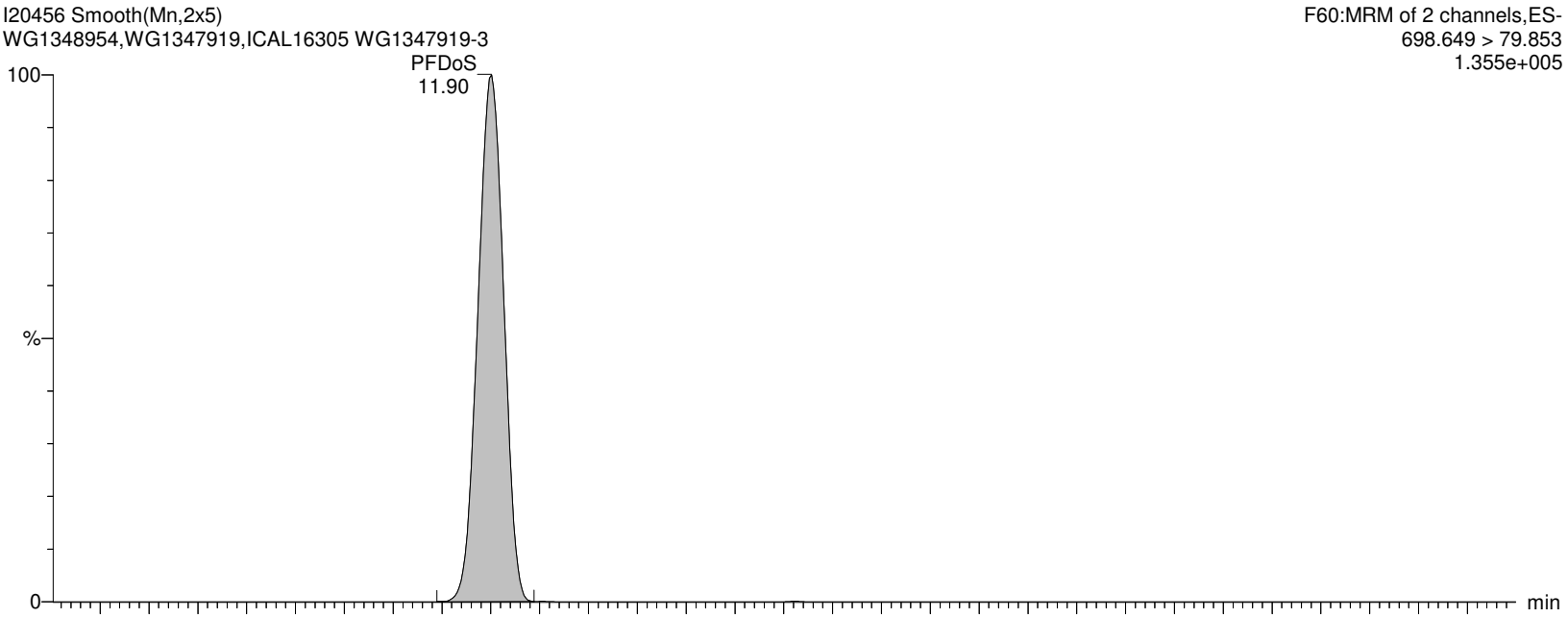
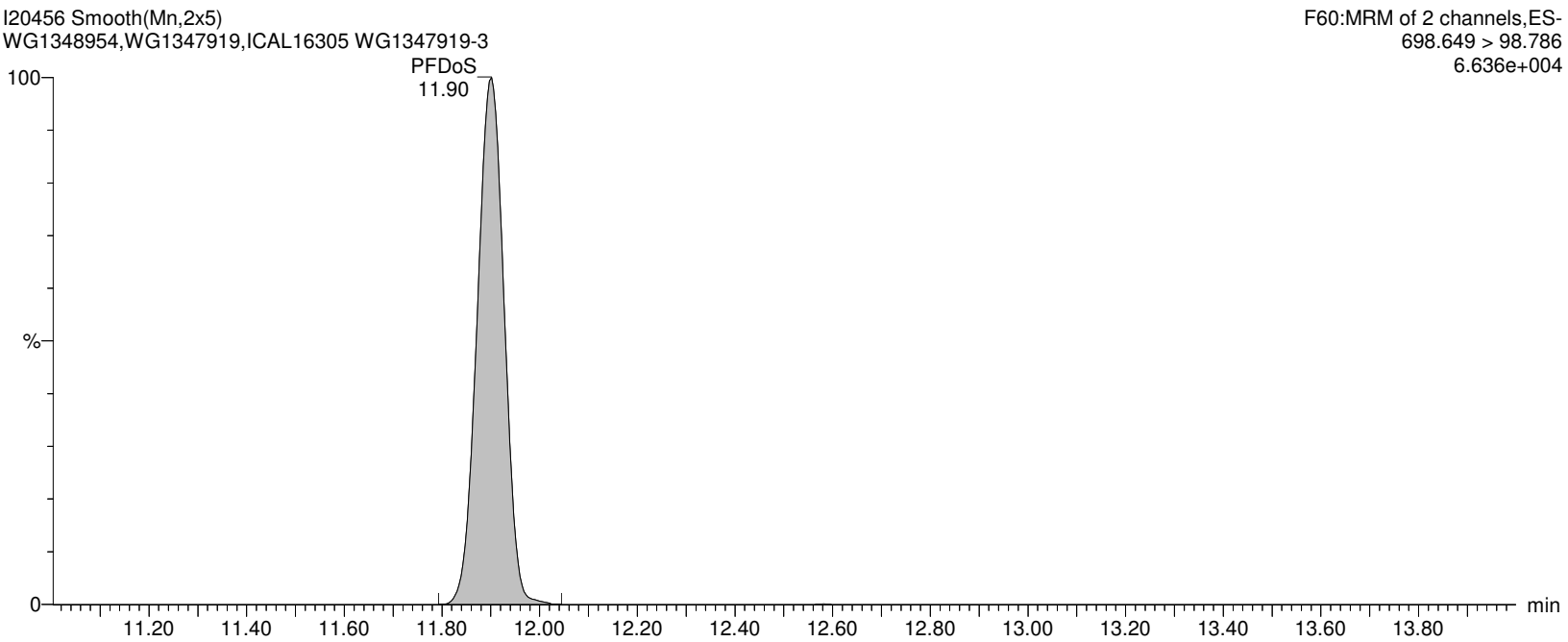
PFDoS





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MS Method Name: C:\MassLynx\Data\2020\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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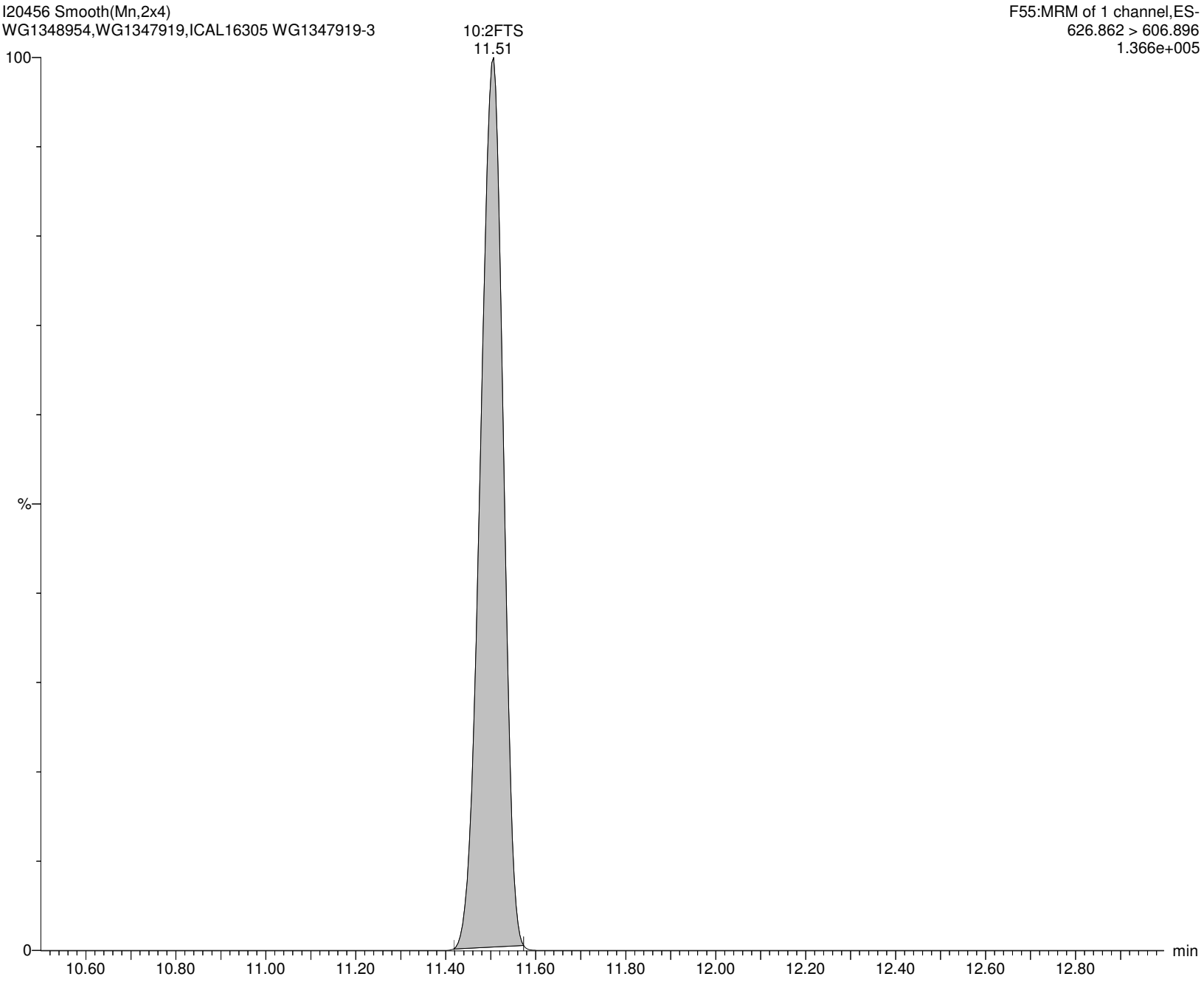

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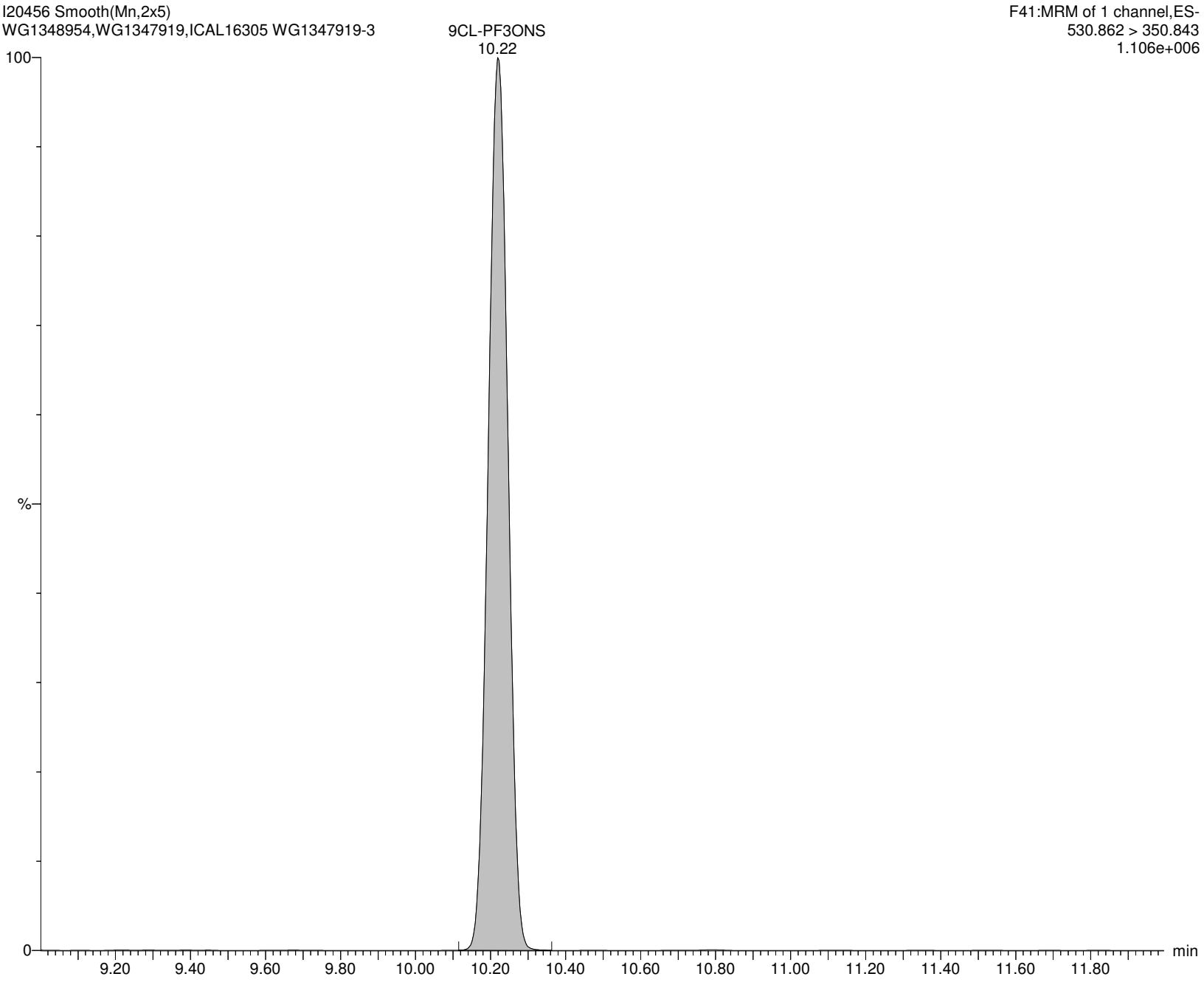
9CL-PF3ONS



all concentration units in (ng/mL)

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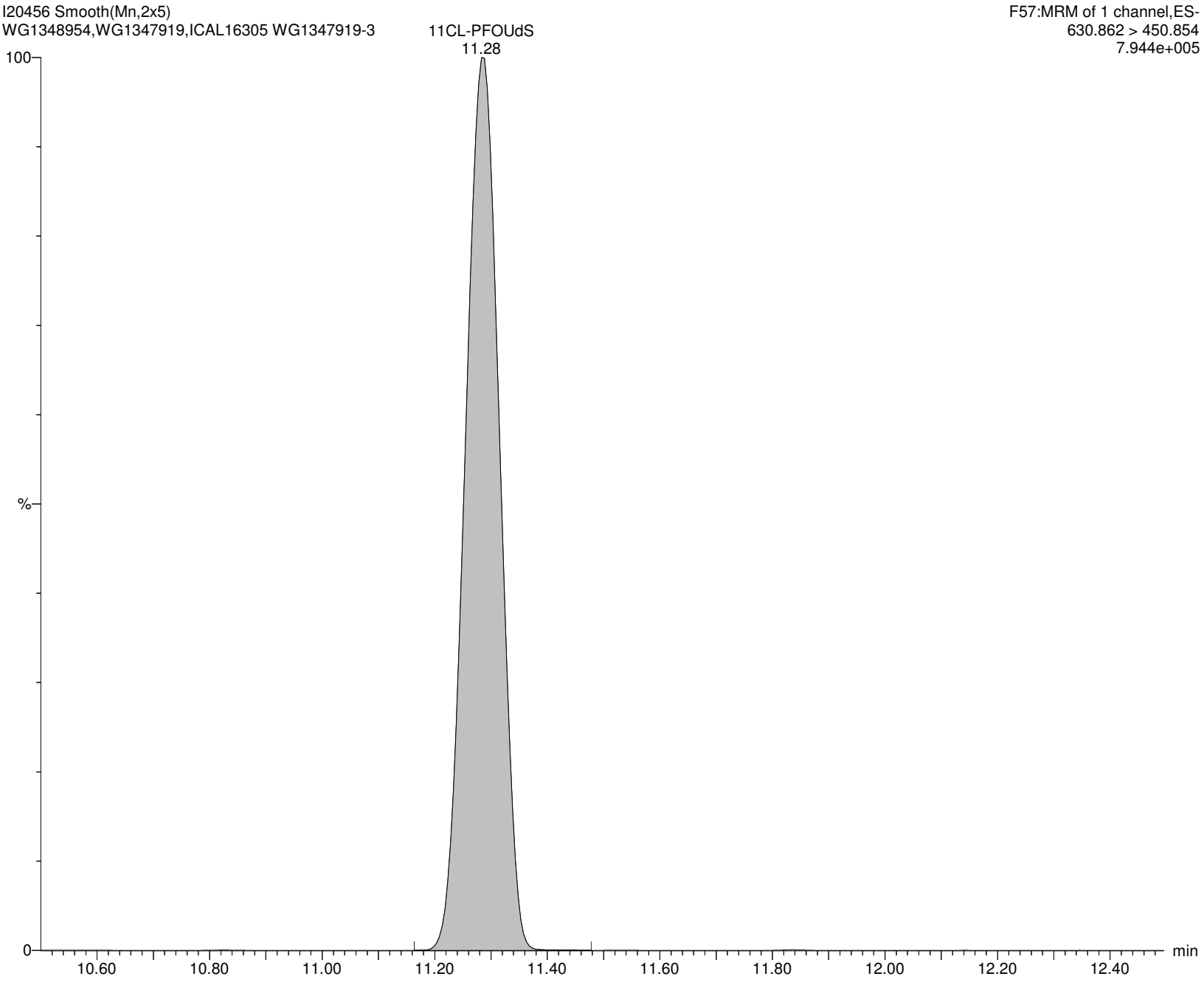
11CL-PFOUdS



all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Tuesday, March 17, 2020 11:22:13 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

ID: WG1347919-5
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Date: 09-Mar-2020
Time: 15:56:46
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.19	212.926 > 169.111	8021	M4	2.853		na	
2	M3PFBA	INT STD	2.19	215.926 > 172.122	39483		10.041		na	100.4
3	MPFBA	INT STD	2.20	216.926 > 172.137	38847		8.586		na	85.9
4	PFPeA	2706-90-3	5.16	262.926 > 219.002	4700	m4	1.462		na	
5	M5PFPEA	INT STD	5.16	267.989 > 223.081	46211		7.698		na	77.0
6	PFBS	375-73-5	5.83	298.926 > 79.923	893	m4	1.073	2.17	NO	
7	M3PFBS	INT STD	5.82	301.989 > 80.254	9228		6.634		na	66.3
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	7.00	329.117 > 309.079	9807		13.532		na	135.3
10	PFHxA	307-24-4	7.09	312.989 > 269.028	10031		2.252	17.47	NO	
11	M5PFHxA	INT STD	7.08	317.989 > 273.045	53739		6.114		na	61.1
12	PFPeS	2706-91-4	7.40	348.926 > 80.251	449		0.485	2.19	NO	
13	PFHpA	375-85-9	8.36	362.926 > 319.014	10116	m4	1.472	6.14	NO	
14	M4PFHpA	INT STD	8.36	366.926 > 321.979	74946		7.349		na	73.5
15	br-PFHxS	355-46-4	8.28	398.904 > 79.915	264	M2	0.368		YES	
16	L-PFHxS	355-46-4	8.52	398.904 > 79.915	1117	M4	1.549	2.33	NO	
17	PFHxS	355-46-4		398.904 > 79.915	1381		1.917		na	
18	M3PFHxS	INT STD	8.52	401.926 > 80.317	9755		7.828		na	78.3
19	br-PFOA	335-67-1	9.08	412.989 > 368.9	11092	M5	1.505	55.37	NO	
20	L-PFOA	335-67-1	9.30	412.989 > 368.9	46643		6.335	9.43	NO	
21	M2PFOA	INT STD	9.30	415.032 > 369.968	107366		12.762		na	127.6
22	PFOA	335-67-1		412.989 > 368.9	57736		7.840		na	
23	M8PFOA	INT STD	9.30	420.989 > 375.979	85651		8.366		na	83.7
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.26	428.989 > 408.917	9775		21.677		na	216.8
26	PFHpS	375-92-8	9.38	448.926 > 80.257	75	M2	0.158	0.41	YES	
27	PFNA	375-95-1	10.05	462.989 > 418.931	1872		0.266	11.87	YES	
28	M9PFNA	INT STD	10.05	472.053 > 426.947	94727		9.464		na	94.6
29	br-PFOS	1763-23-1	9.85	498.968 > 79.918	3661	M5	4.961	4.77	NO	
30	L-PFOS	1763-23-1	10.10	498.968 > 79.918	2994		5.808	1.21	NO	
31	PFOS	1763-23-1		498.968 > 79.918	6654		10.769		na	
32	M4PFOS	INT STD	10.10	503.032 > 80.306	10843		12.765		na	127.7
33	M8PFOS	INT STD	10.10	507.053 > 80.294	9539		7.575		na	75.8
34	PFDA	335-76-2	10.68	513.053 > 468.906	878		0.135	5.18	NO	
35	M2PFDA	INT STD	10.67	515.053 > 469.934	101287		15.312		na	153.1
36	M6PFDA	INT STD	10.67	519.053 > 473.931	84920		7.620		na	76.2
37	8:2FTS	39108-34-4	10.67	527.032 > 507.079	5	M2	0.020		YES	
38	M2-8:2FTS	INT STD	10.66	529.053 > 508.945	3553		13.029		na	130.3
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

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Printed: Tuesday, March 17, 2020 11:22:13 Eastern Daylight Time

ID: WG1347919-5
Name: I19080
Date: 09-Mar-2020
Time: 15:56:46
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.05	573.096 > 418.987	14201		9.619		na	96.2
41	NMeFOSAA	2355-31-9	10.81	570.053 > 418.917	87	m5	0.103	2.82	NO	
42	PFUnA	2058-94-8	11.21	562.989 > 518.903	330		0.043		YES	
43	M7-PFUDA	INT STD	11.21	570.053 > 524.923	82385		8.413		na	84.1
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6	11.12	497.989 > 78.245	171		0.197		YES	
46	M8FOSA	INT STD	11.11	506.053 > 78.286	10534		2.359		na	23.6
47	d5-NEtFOSAA	INT STD	11.34	589.117 > 418.929	9702		9.012		na	90.1
48	NEtFOSAA	2991-50-6	11.35	583.989 > 418.927	119	m5	0.143		YES	
49	PFDoA	307-55-1	11.67	612.989 > 568.967	41	M2	0.006		YES	
50	MPFDOA	INT STD	11.68	614.989 > 569.92	76766		7.292		na	72.9
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.44	715.053 > 669.945	80637		6.796		na	68.0

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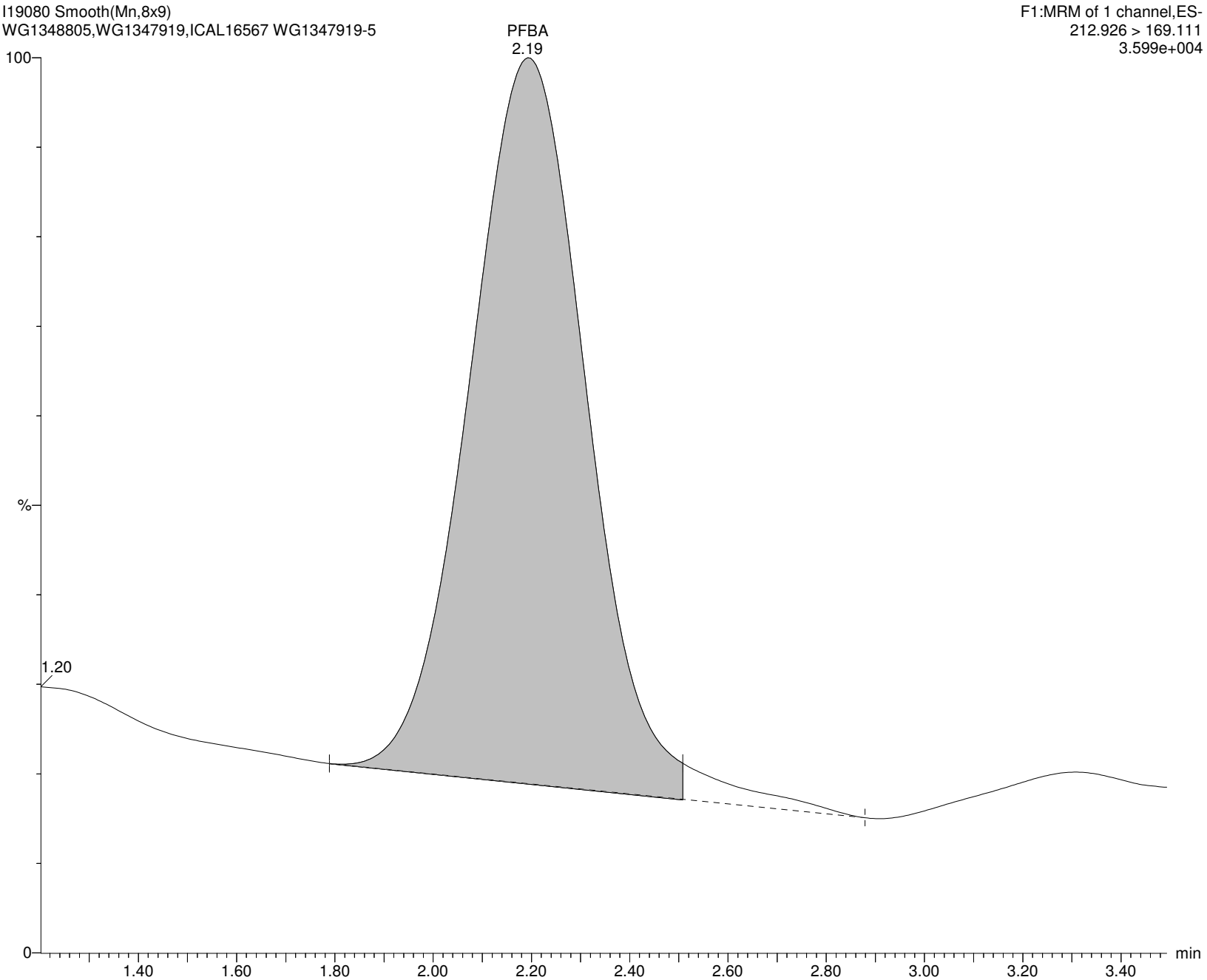

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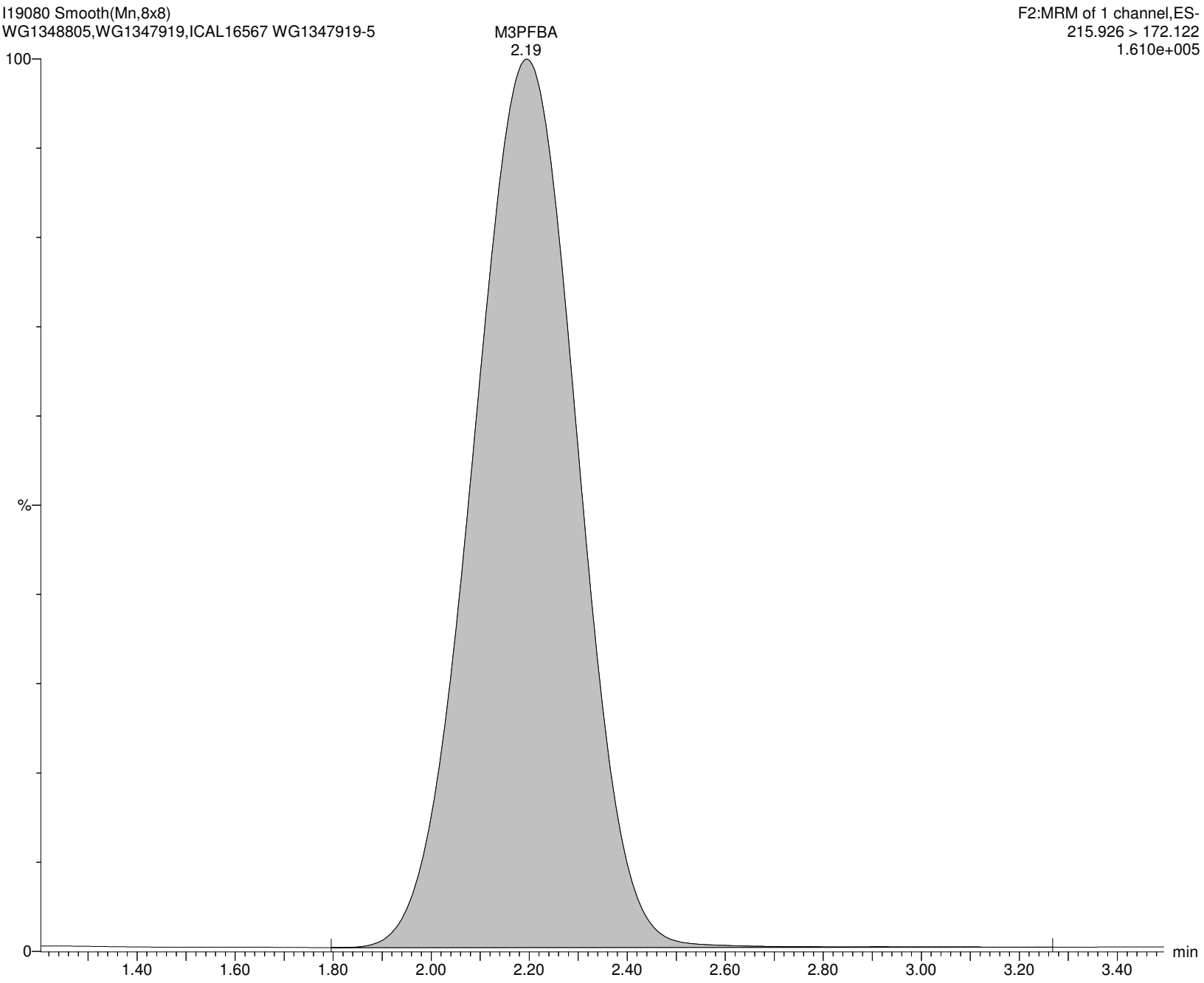

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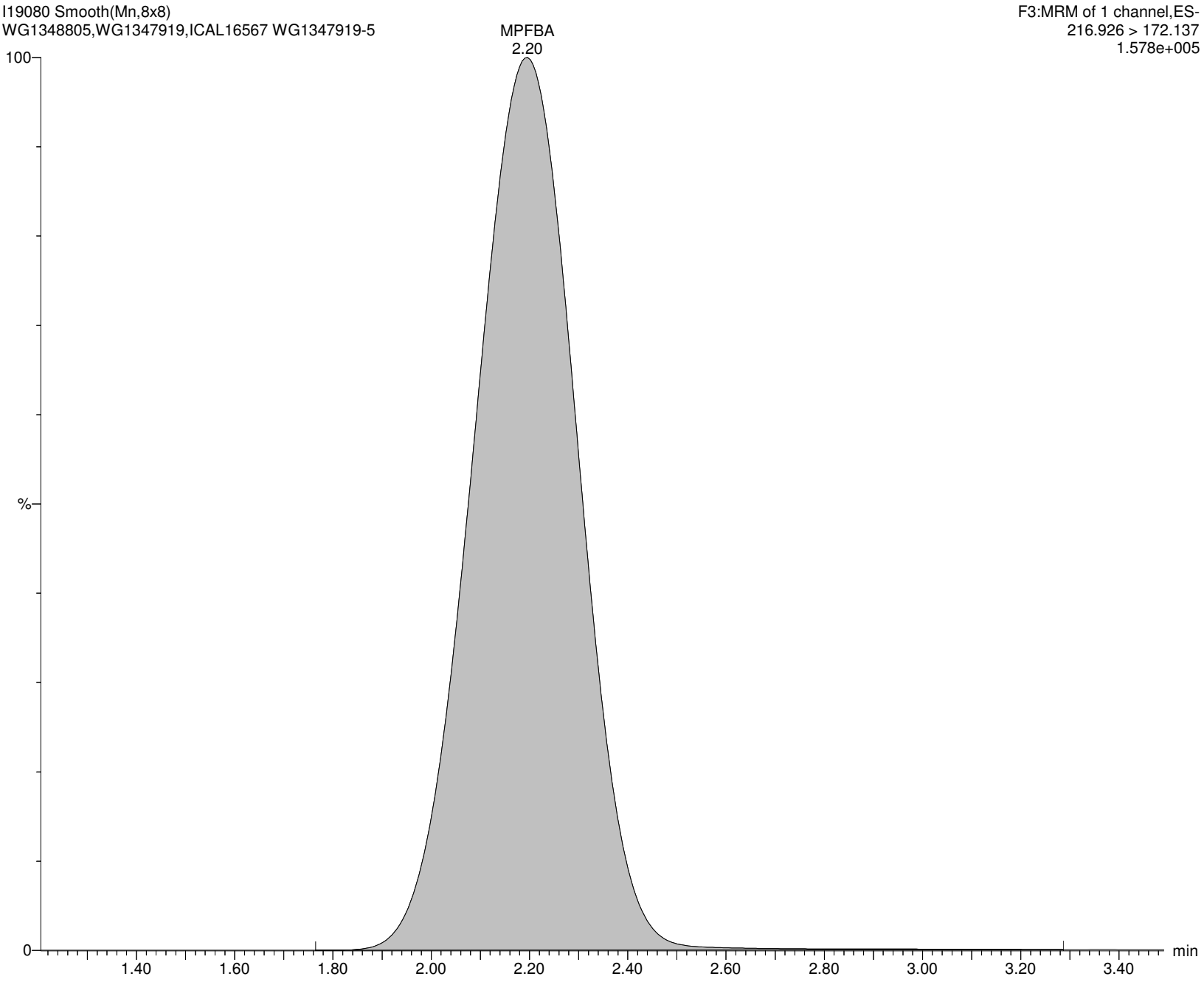

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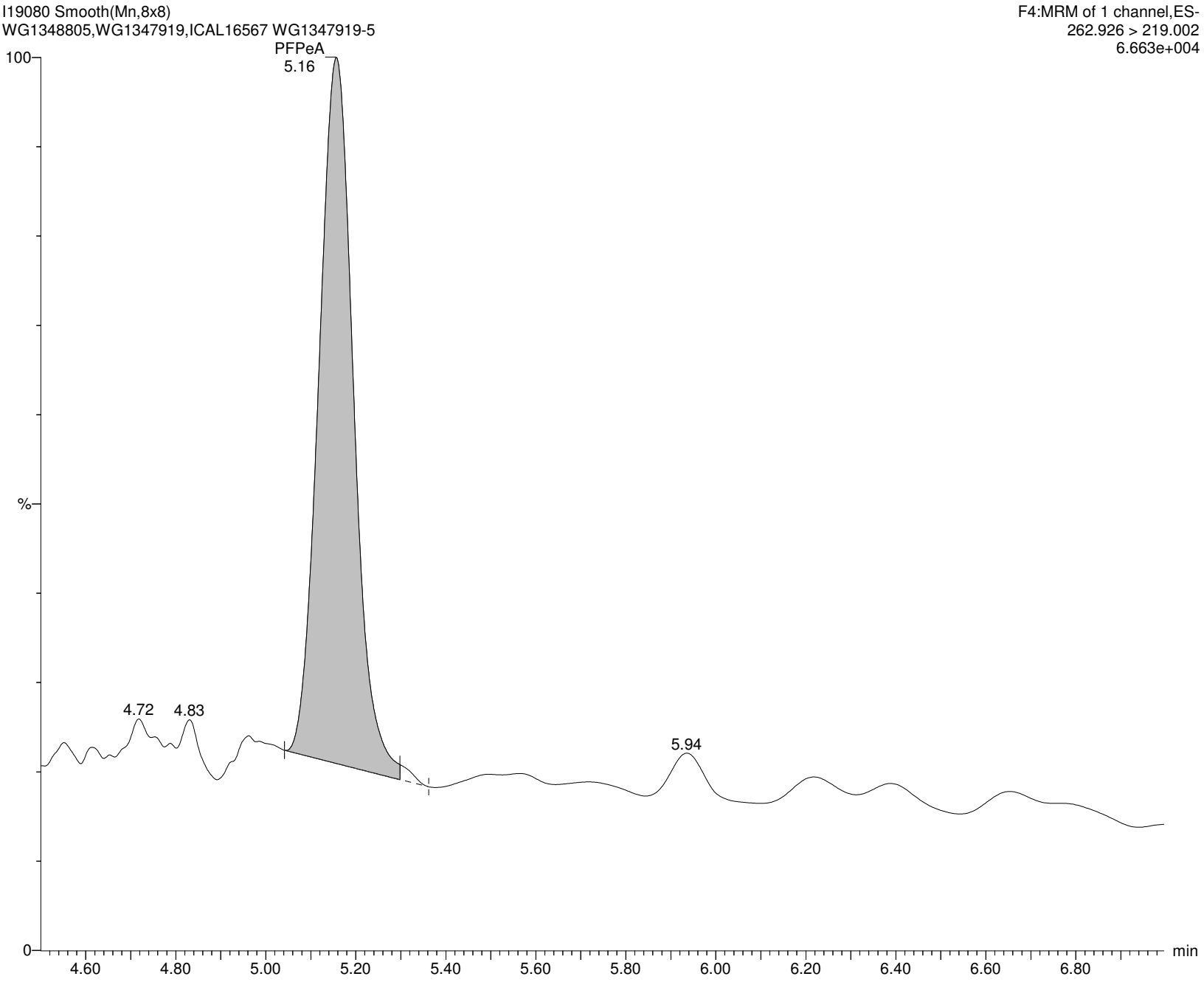

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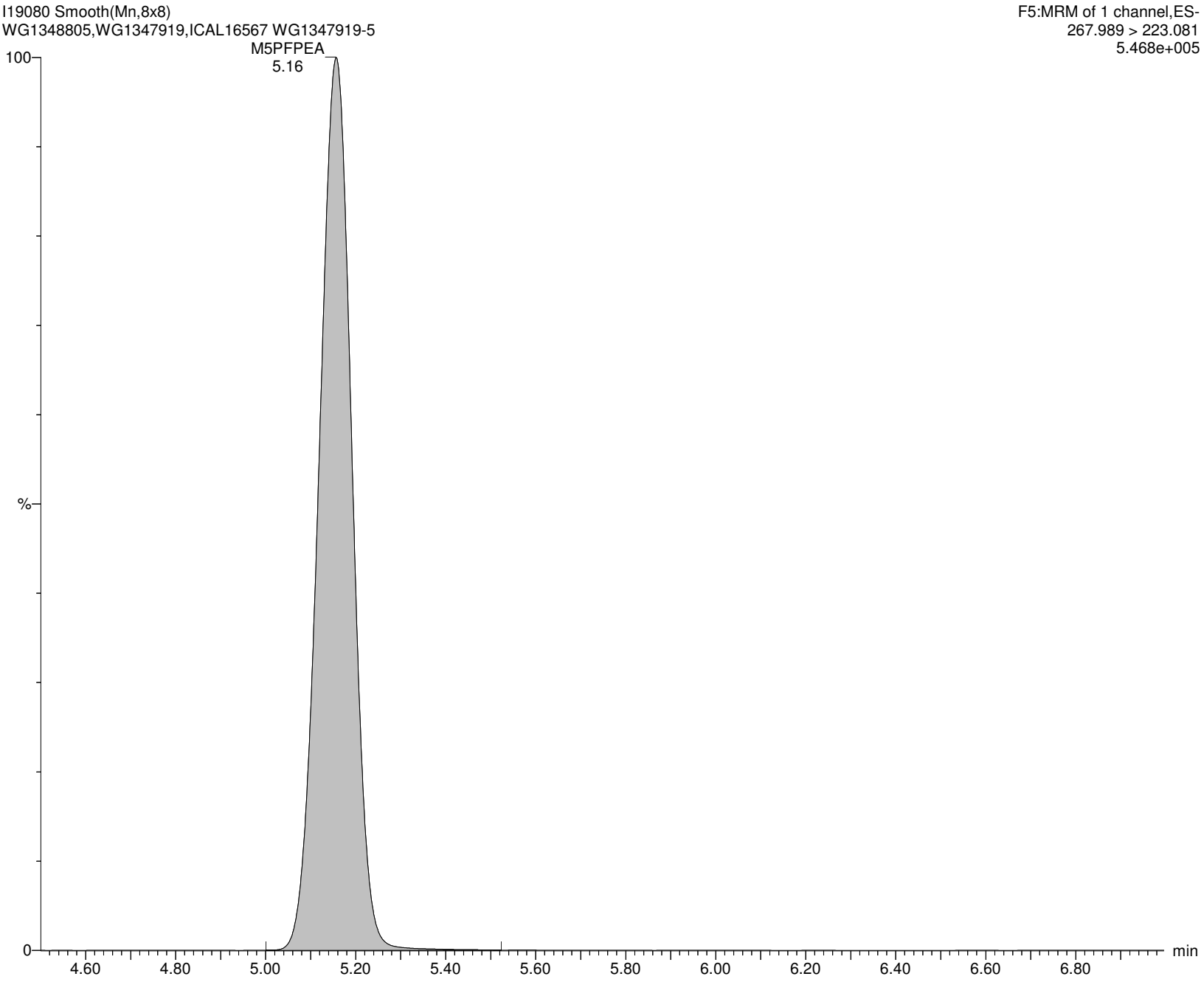

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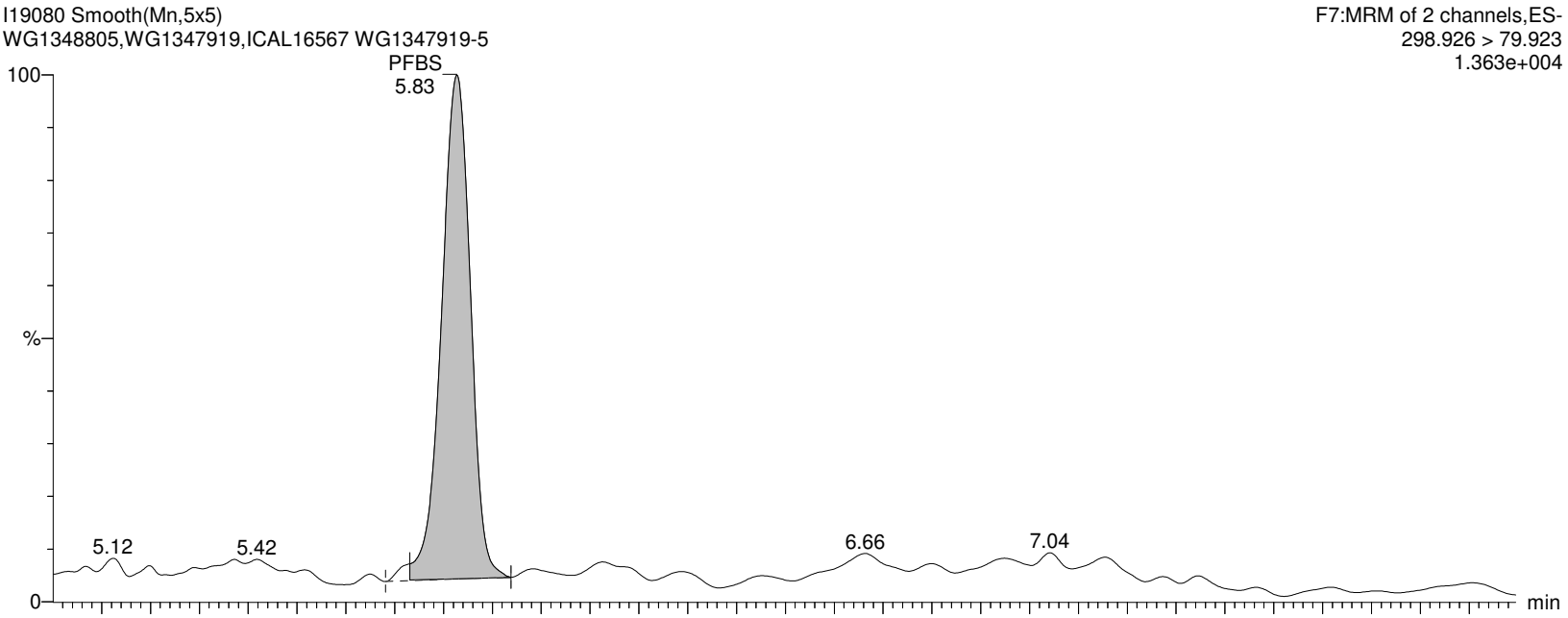

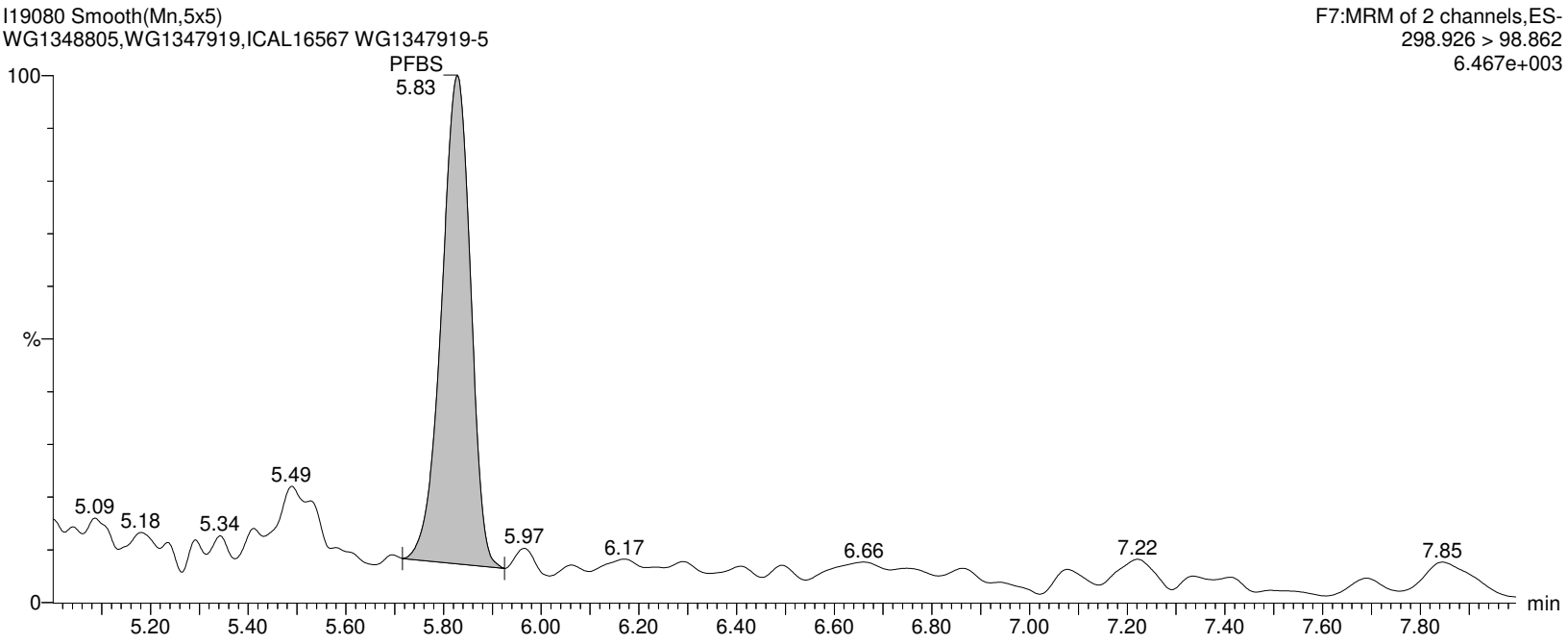

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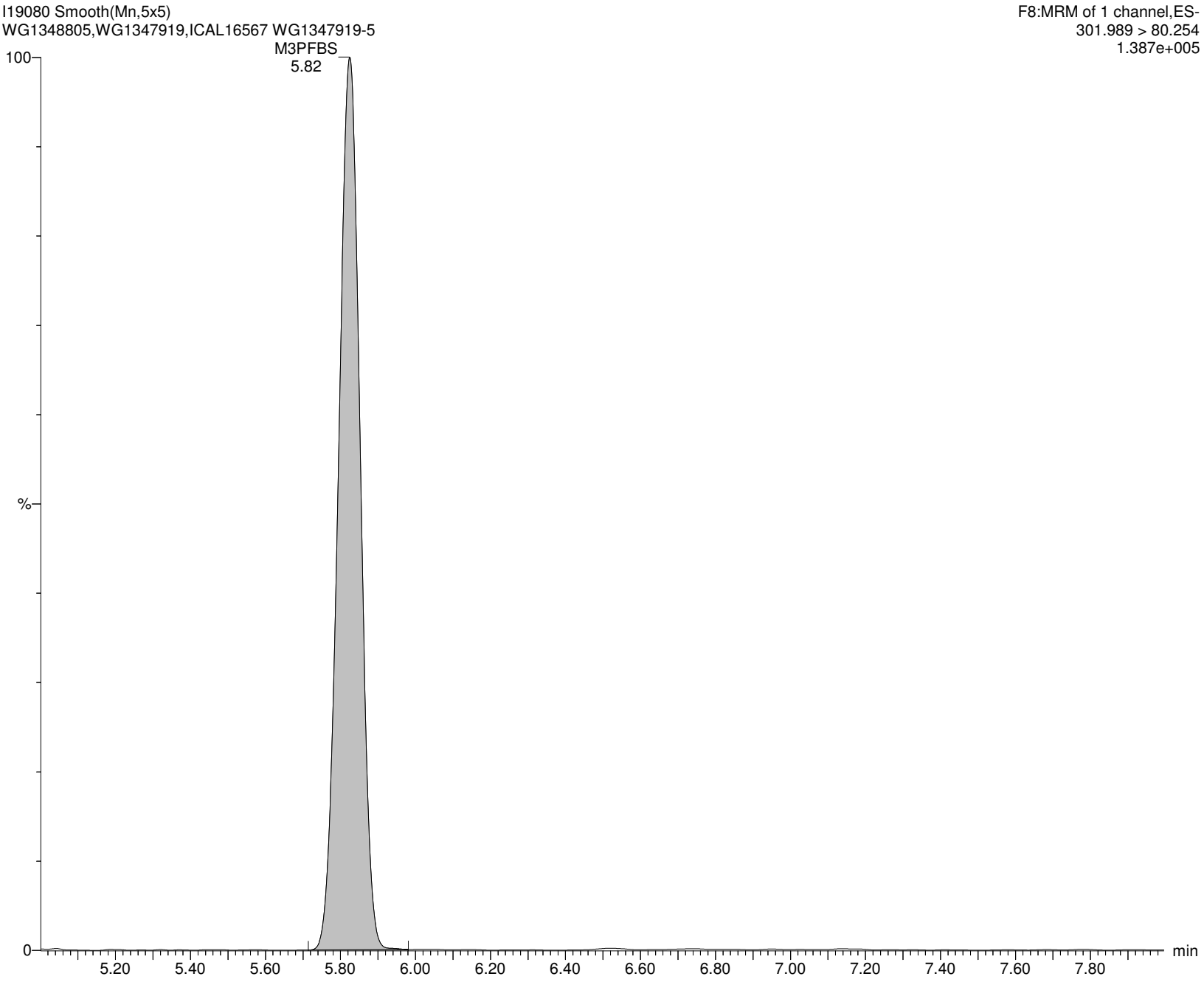

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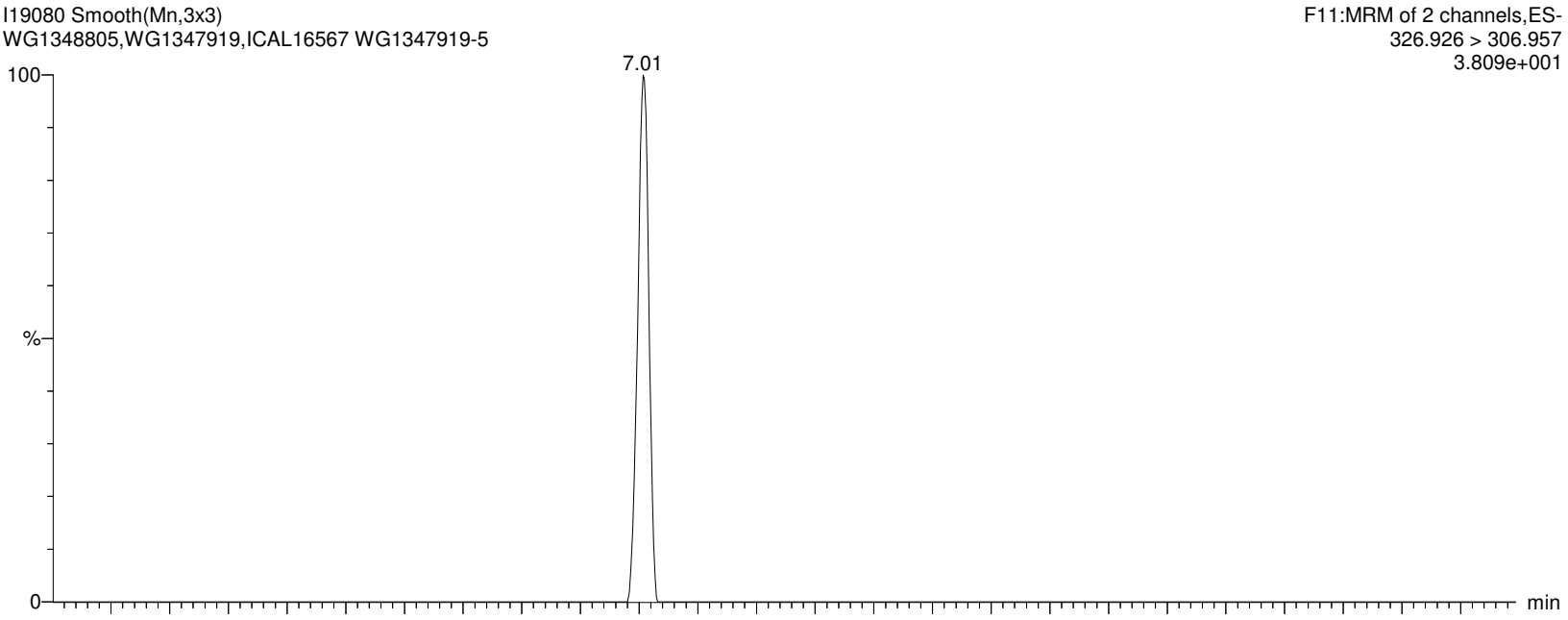
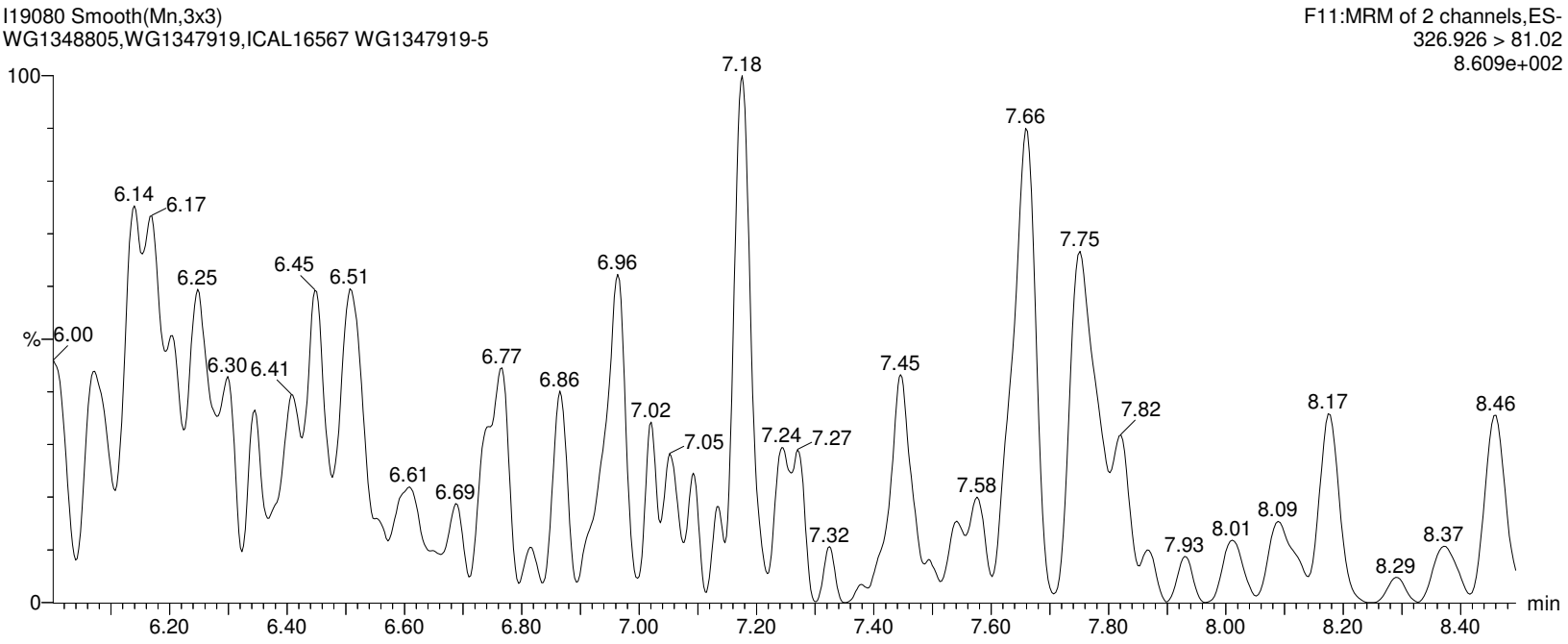
4:2FTS





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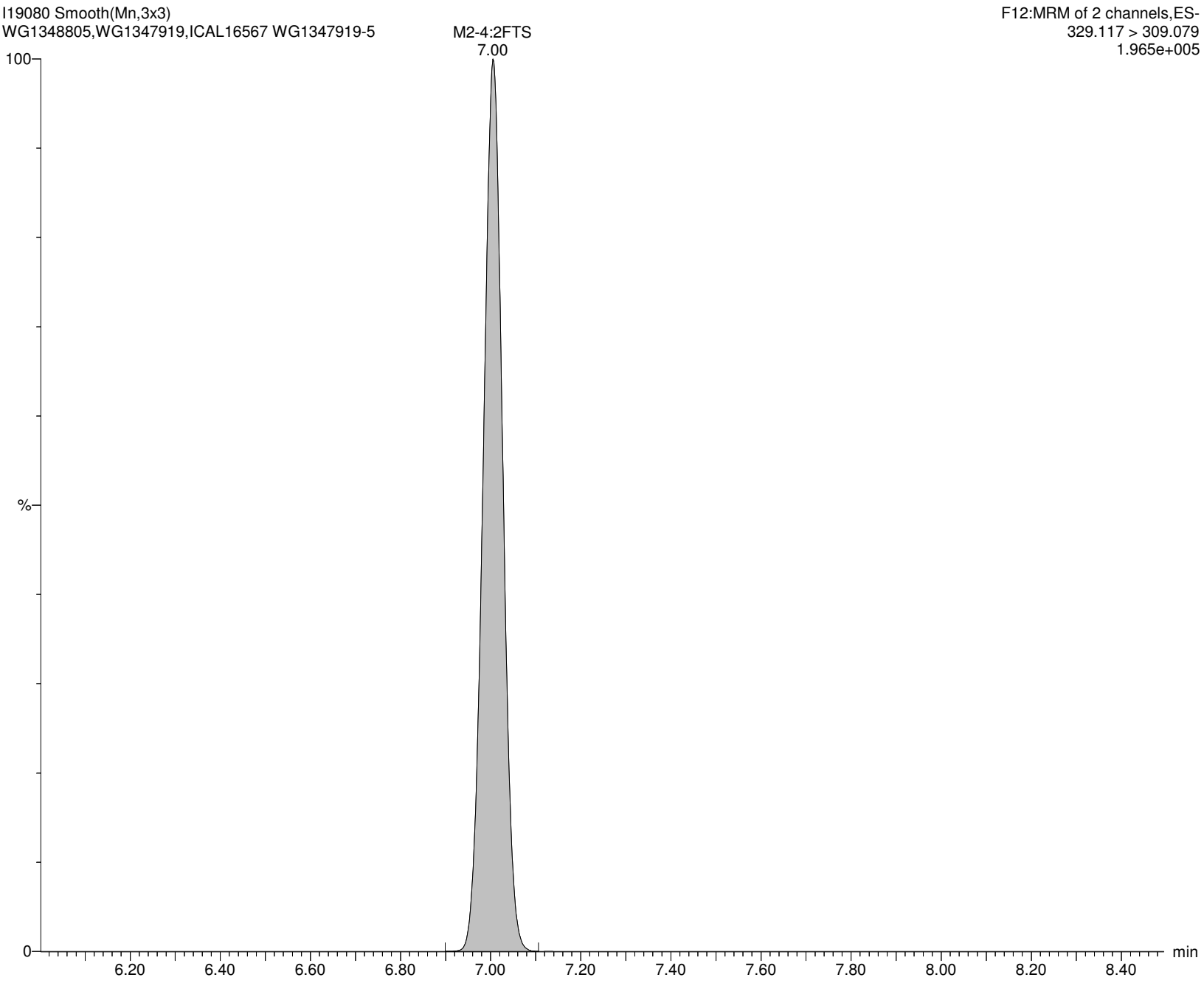
M2-4:2FTS



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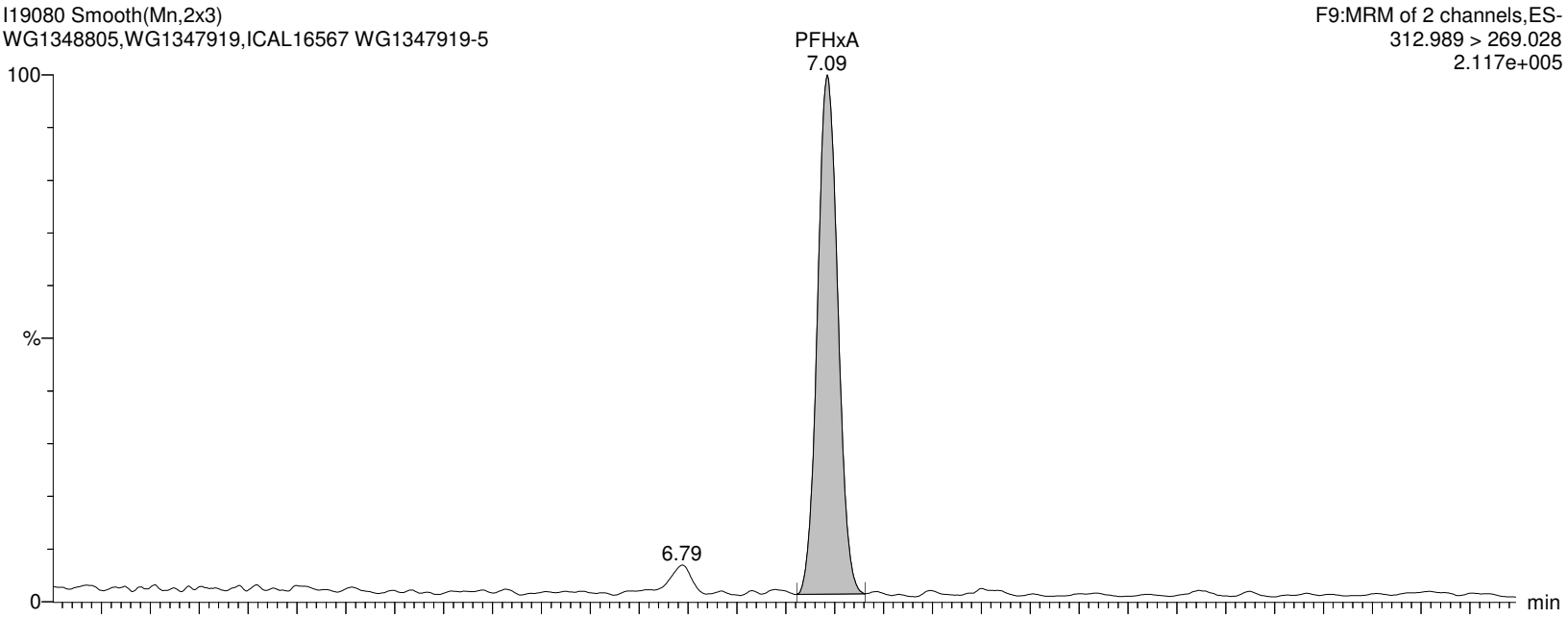
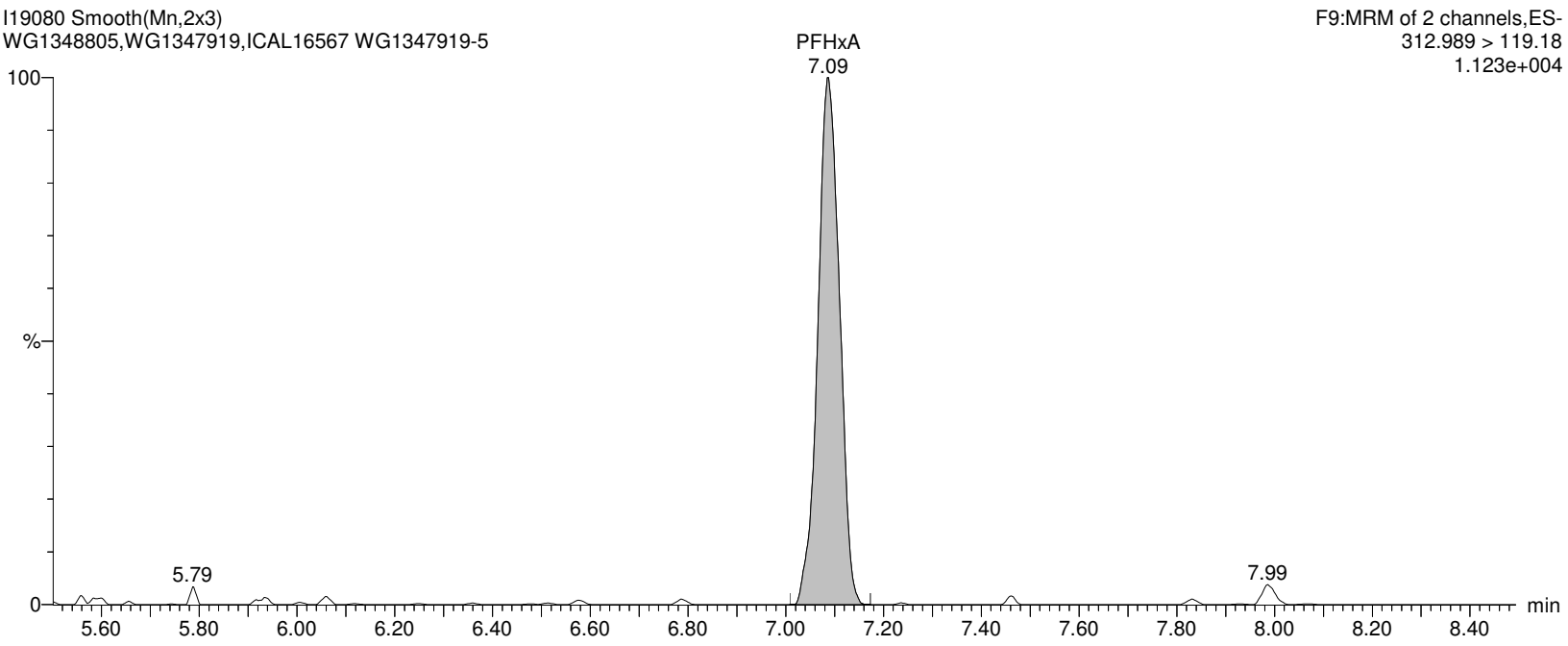
PFHxA





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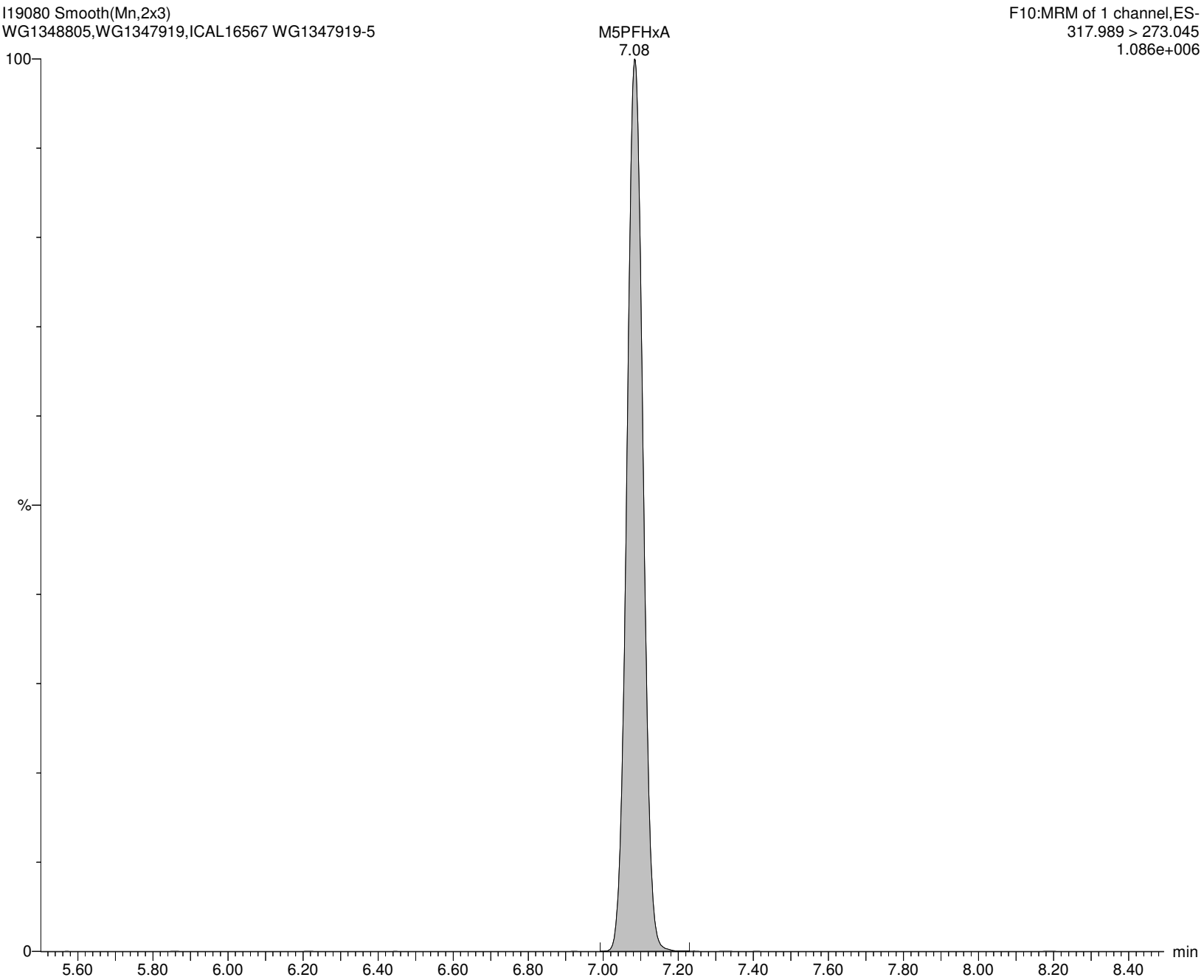

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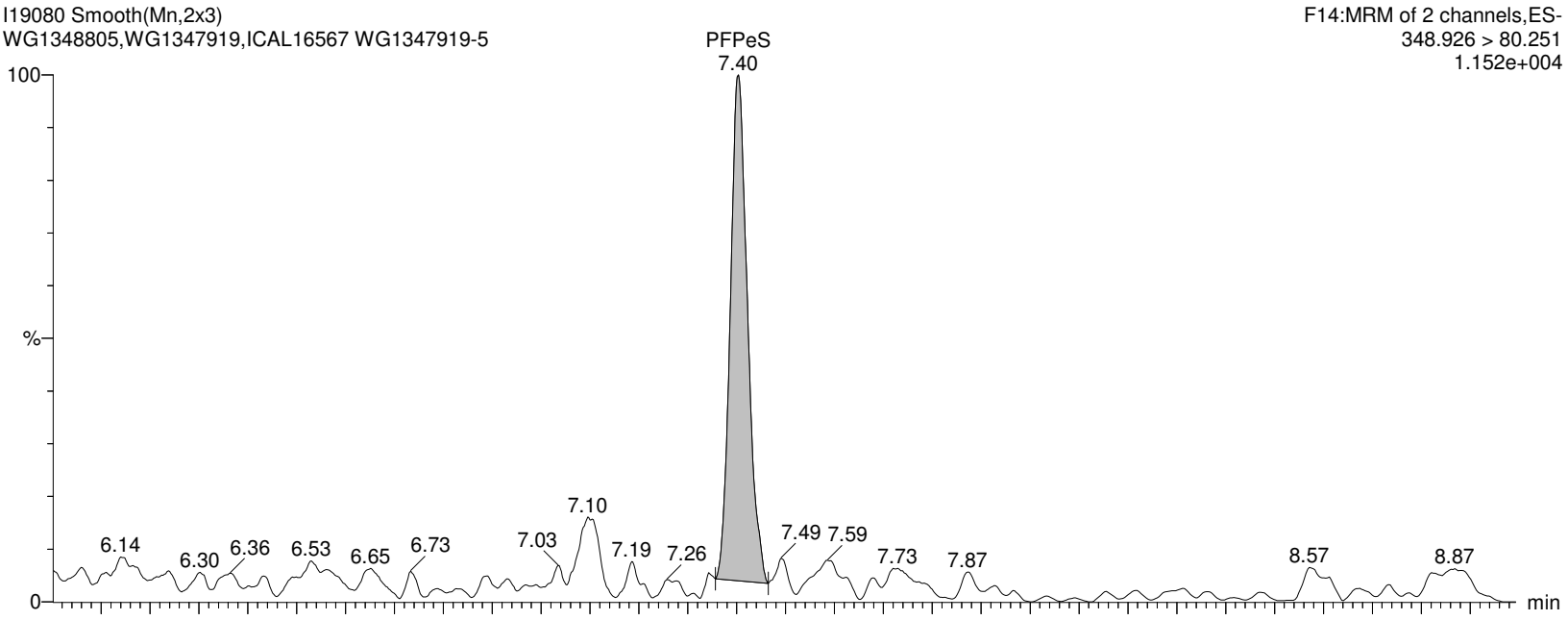

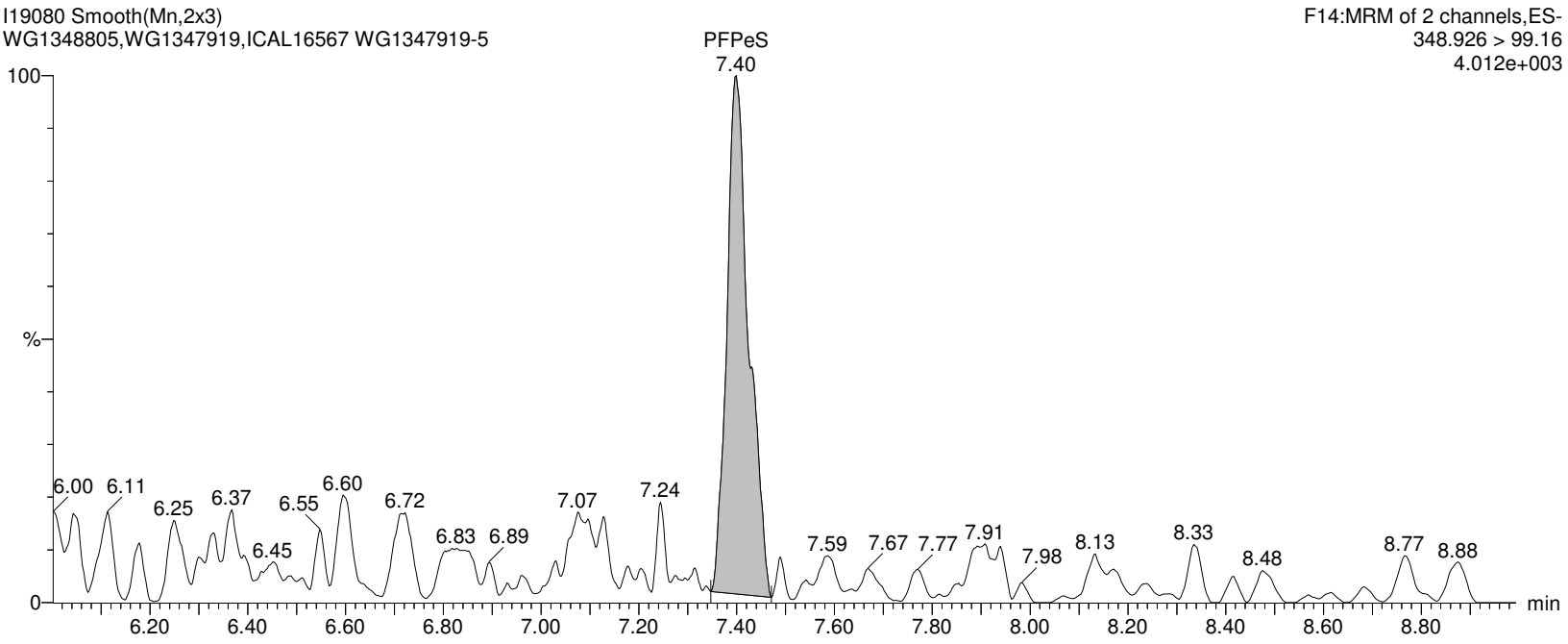

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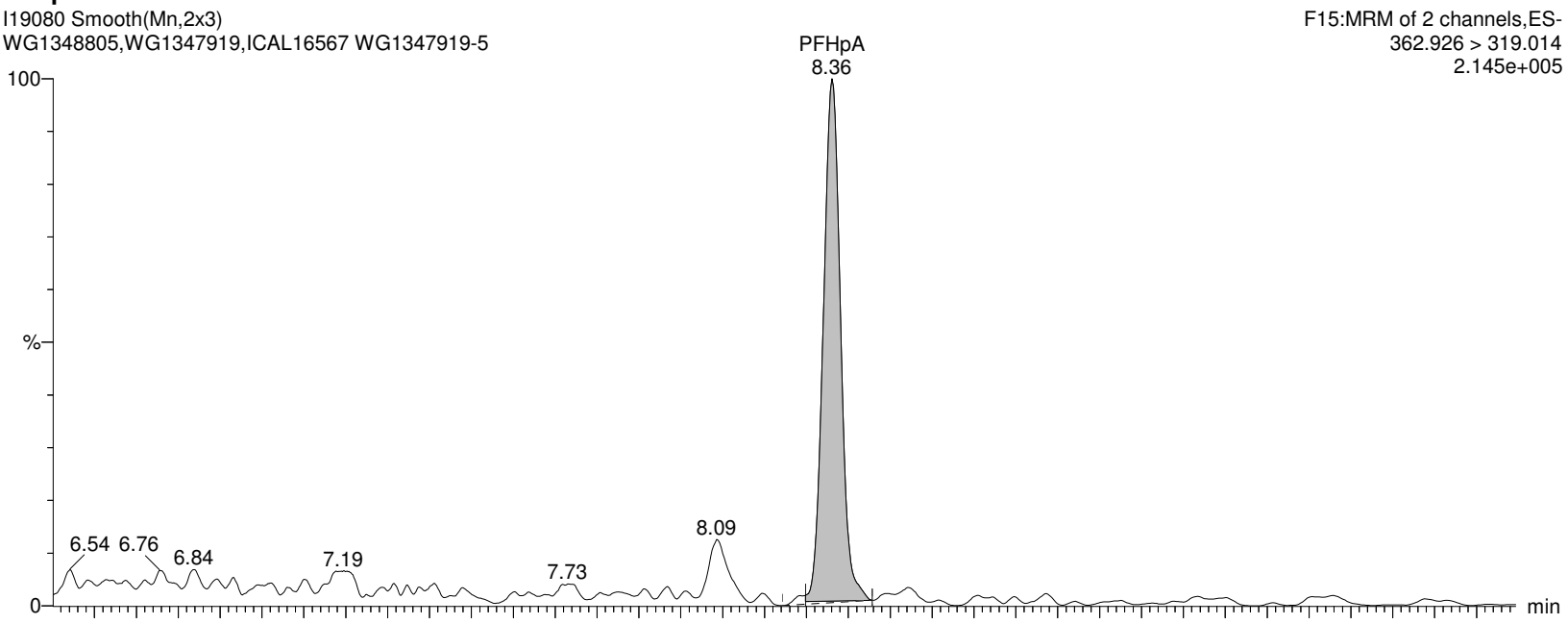
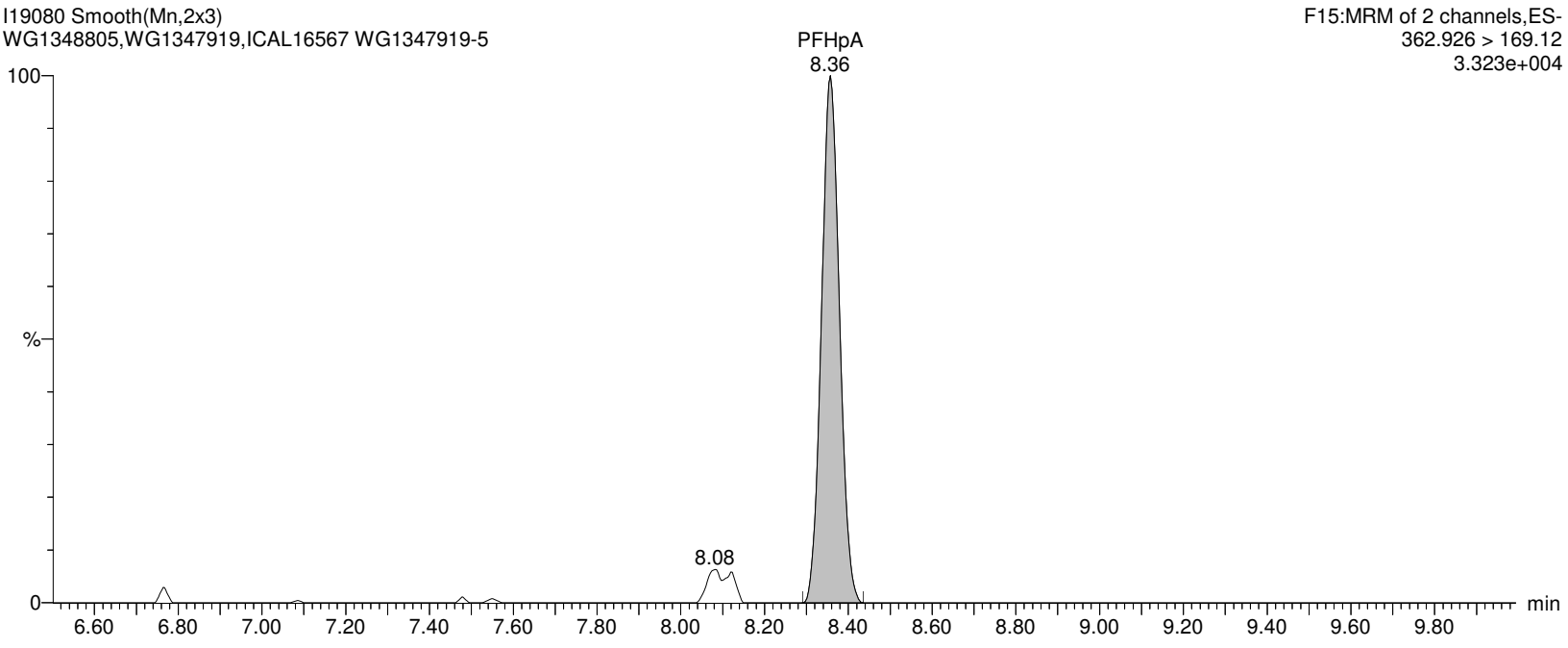
PFHpA





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Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
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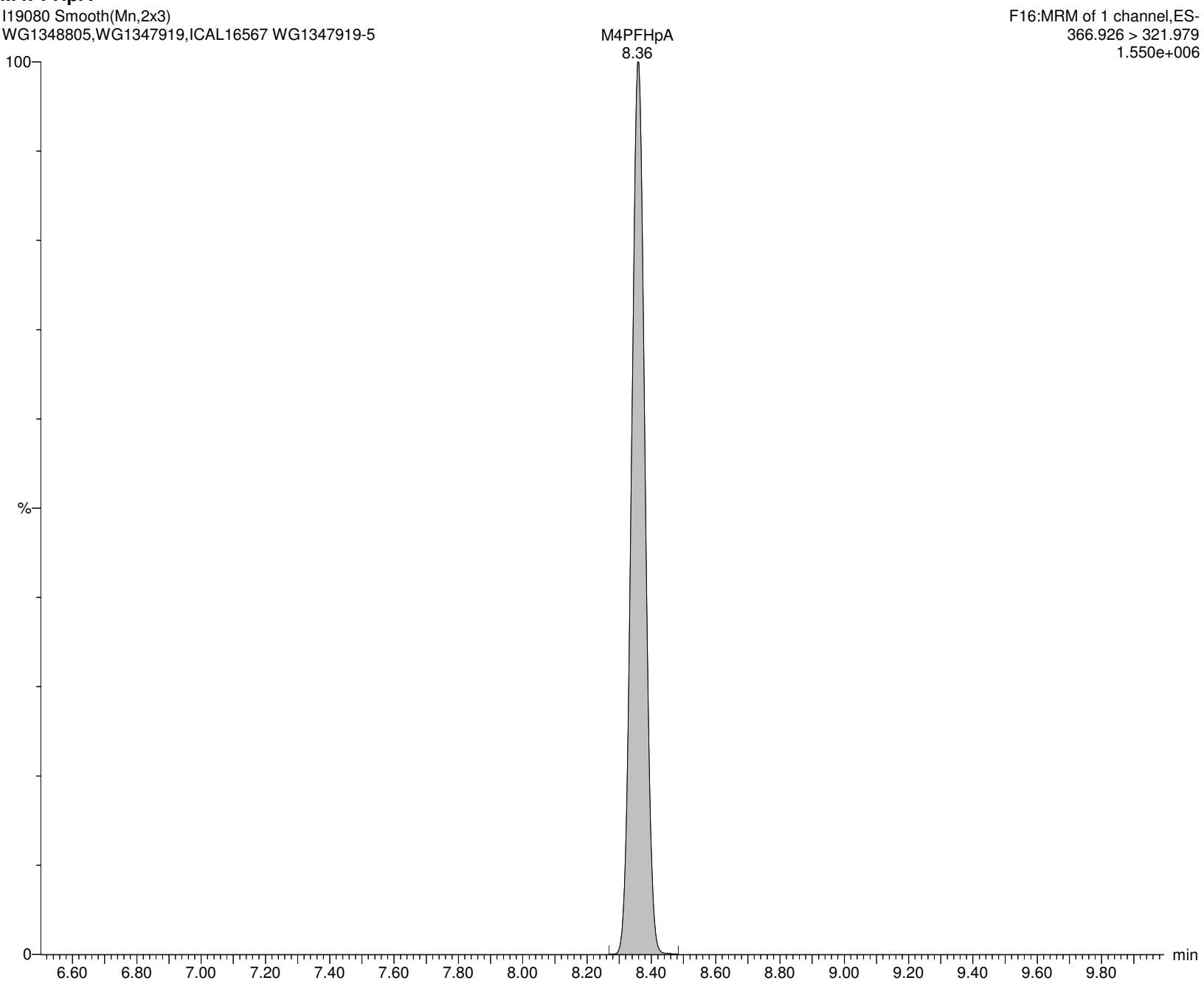

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:22:13 Eastern Daylight Time

Name: I19080
ID: WG1347919-5
Date: 09-Mar-2020
Time: 15:56:46
Description: WG1348805,WG1347919,ICAL16567
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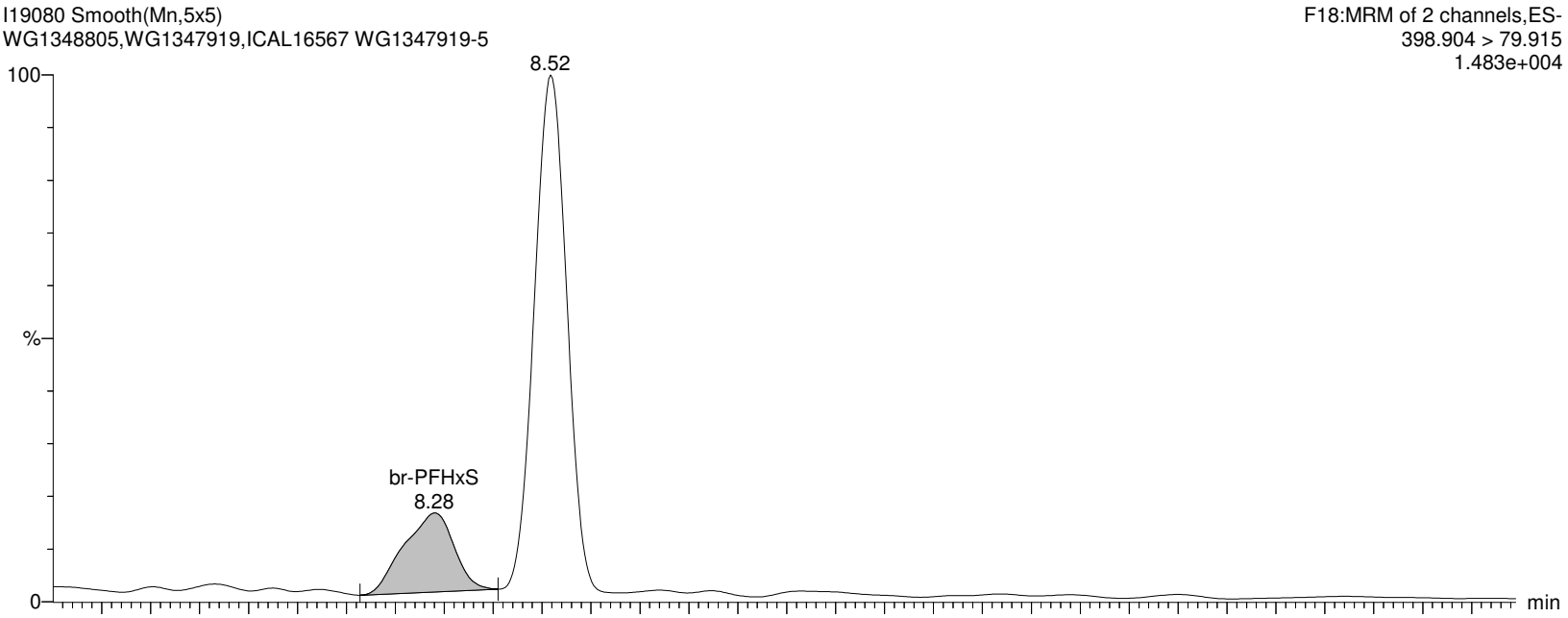

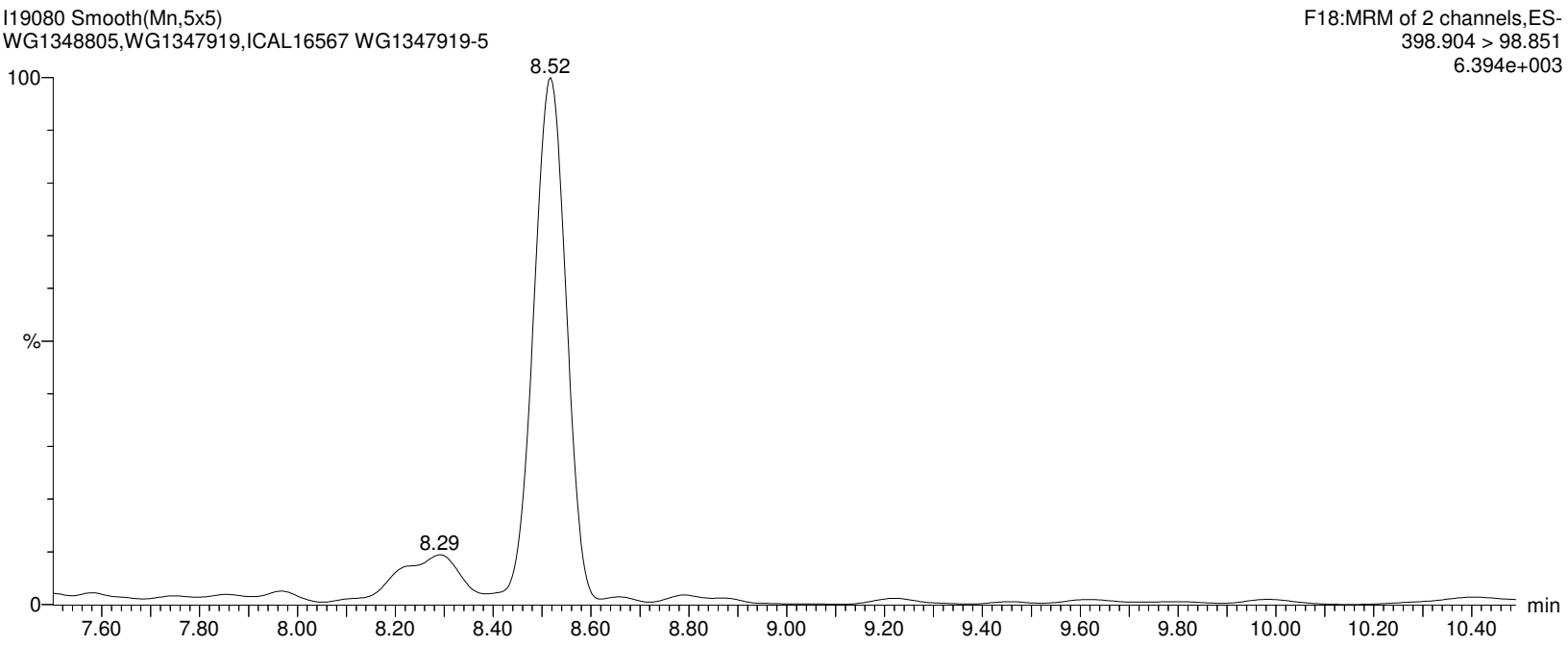

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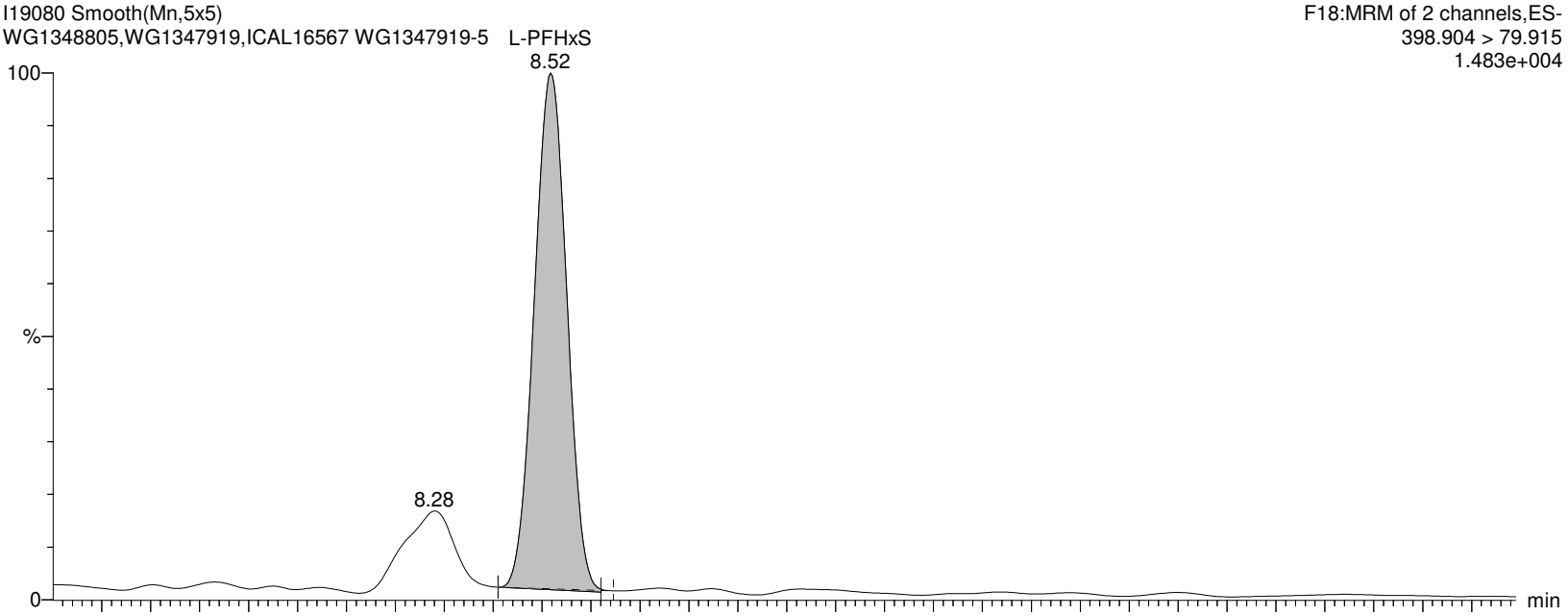

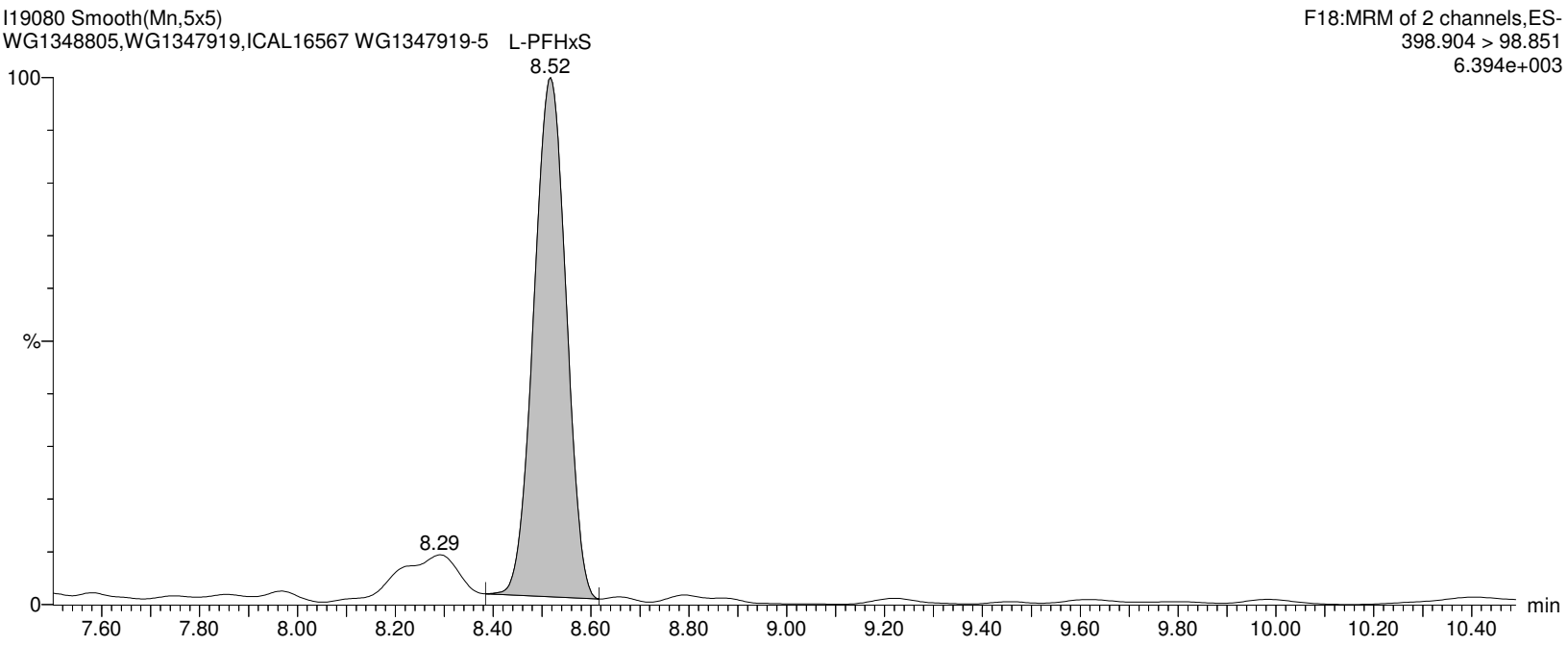

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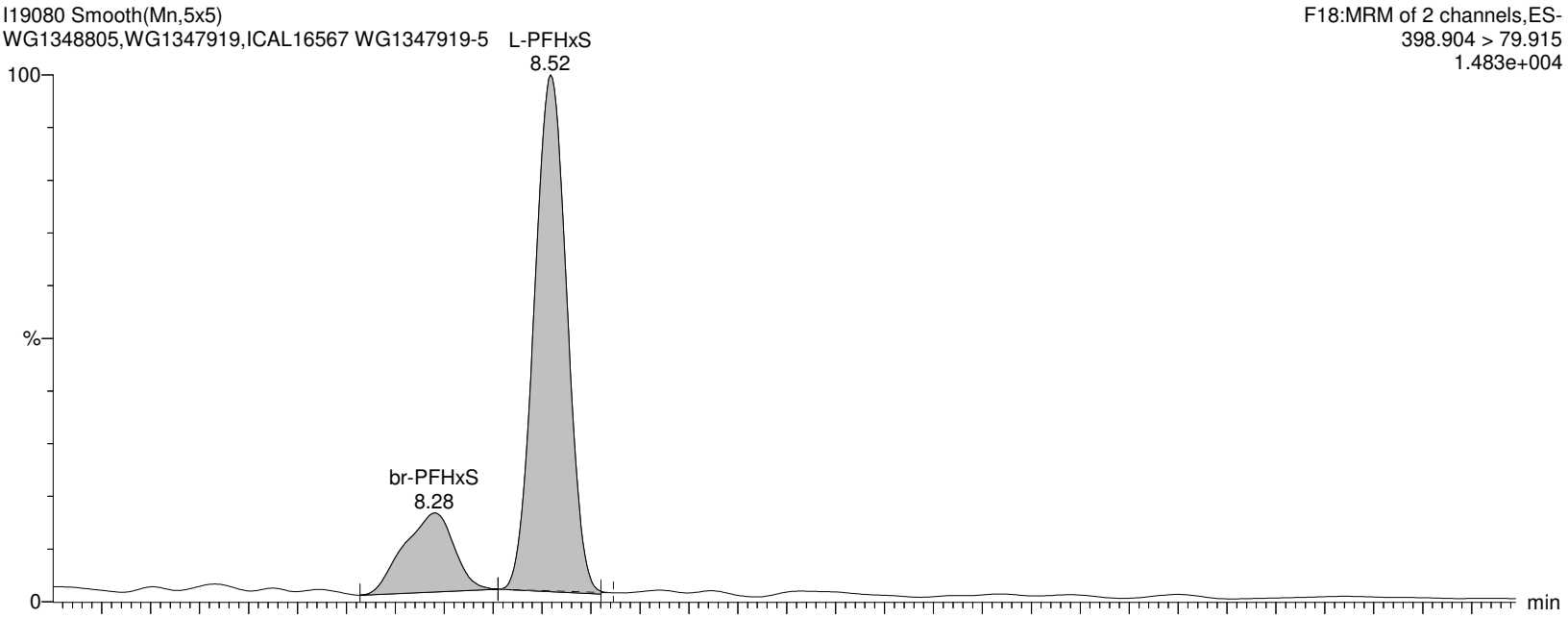

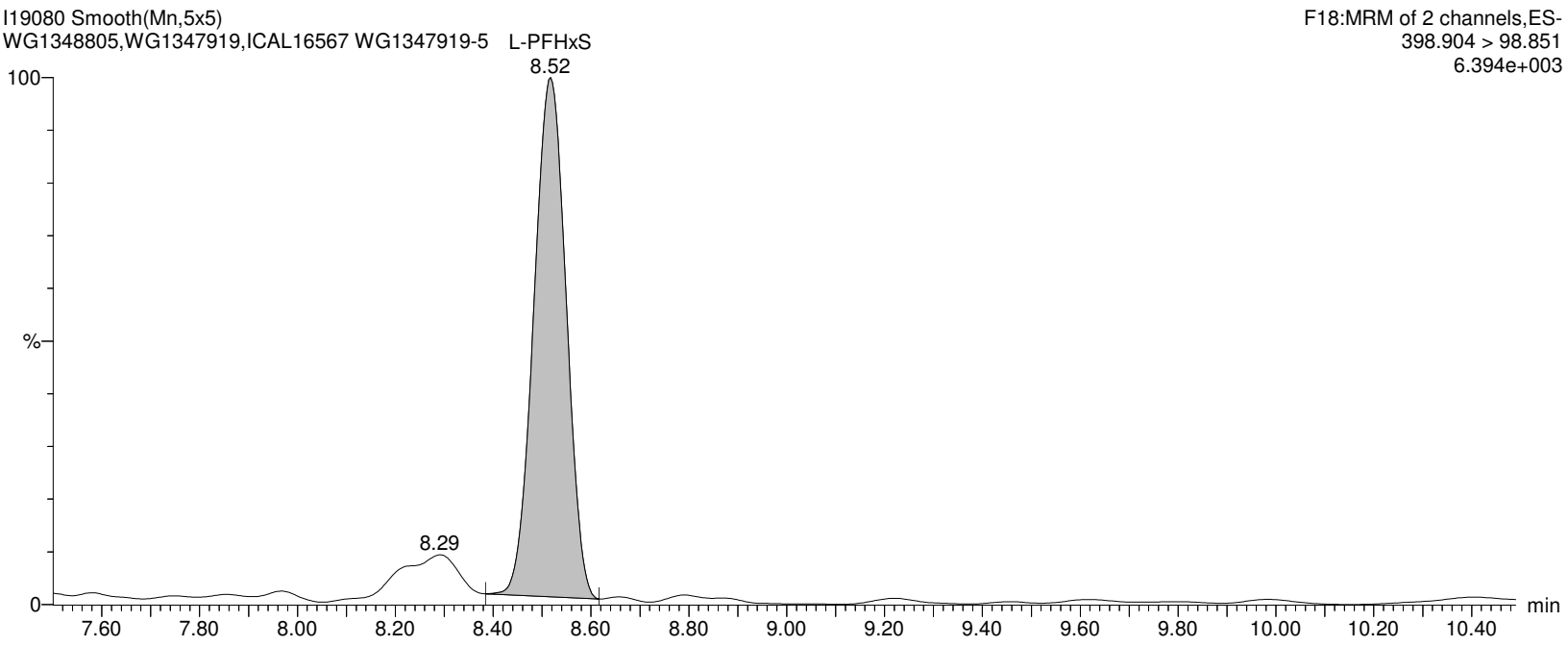

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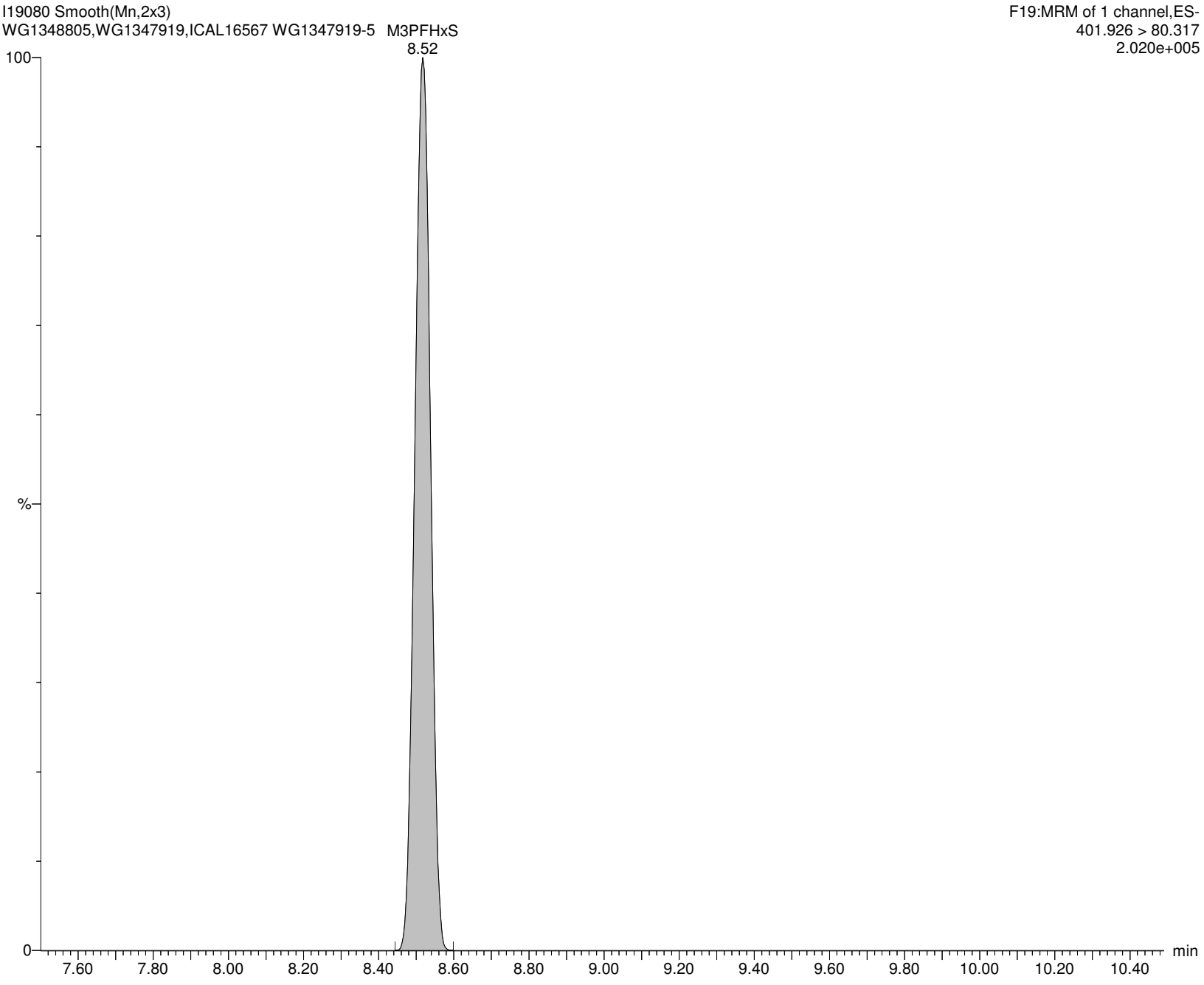

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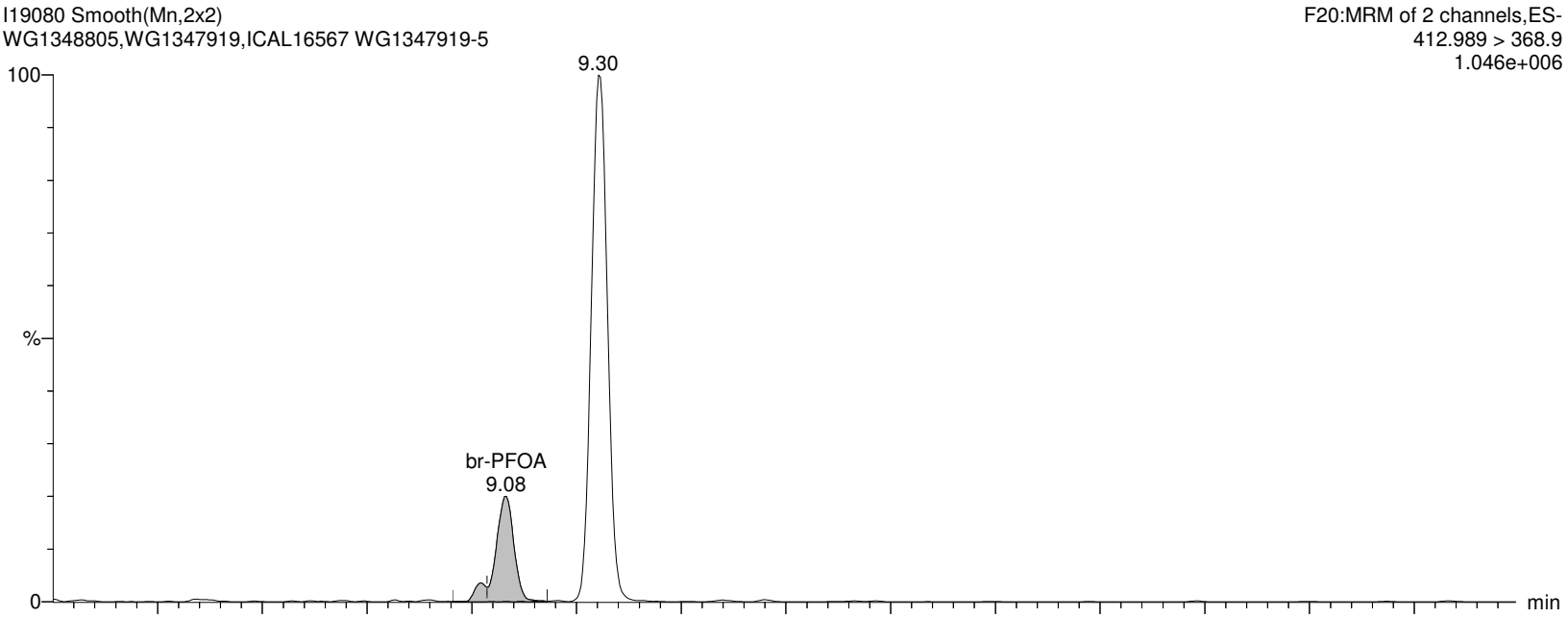

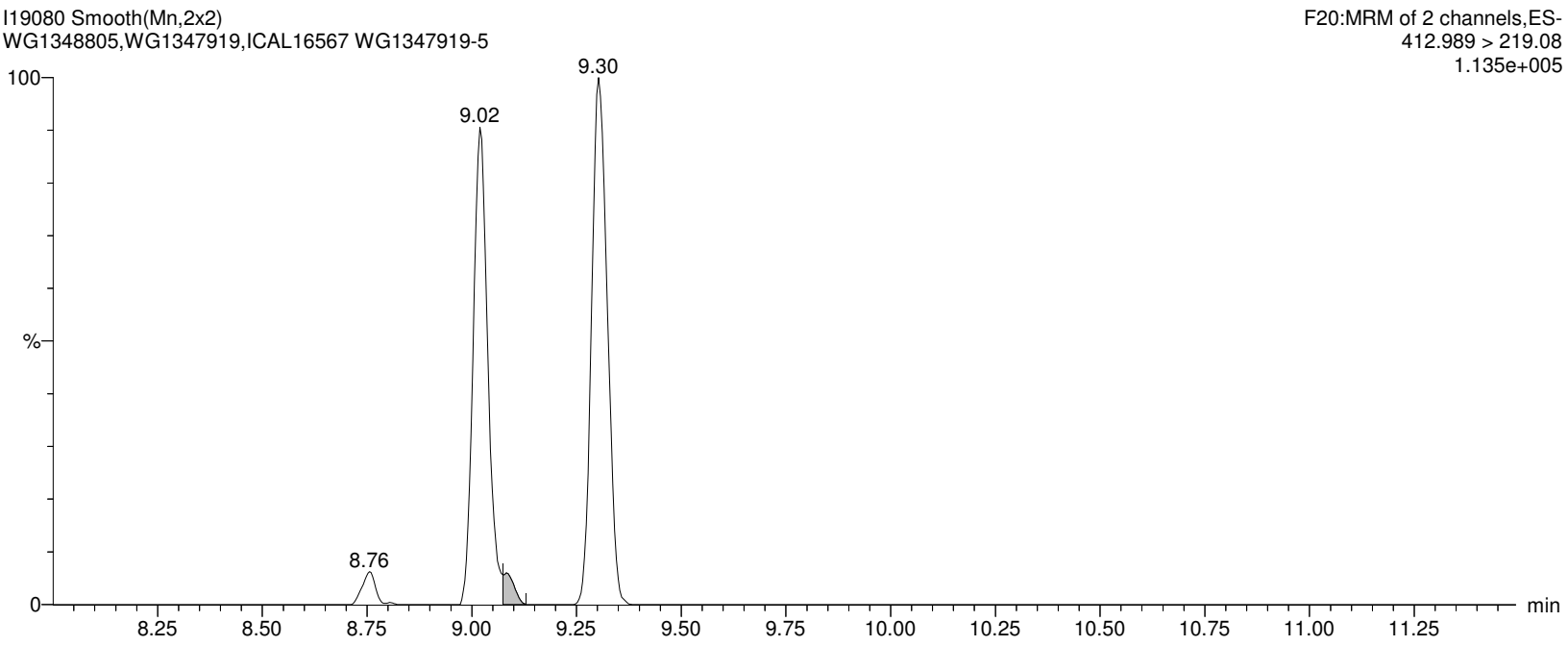

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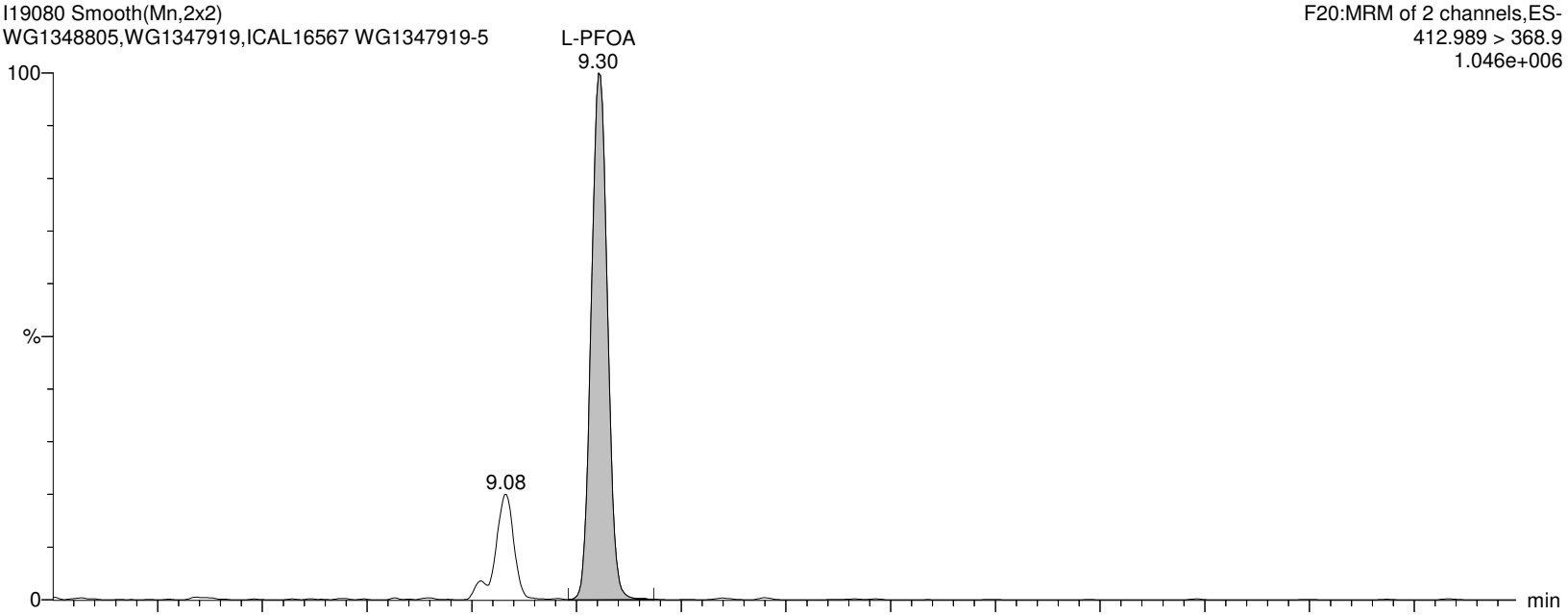

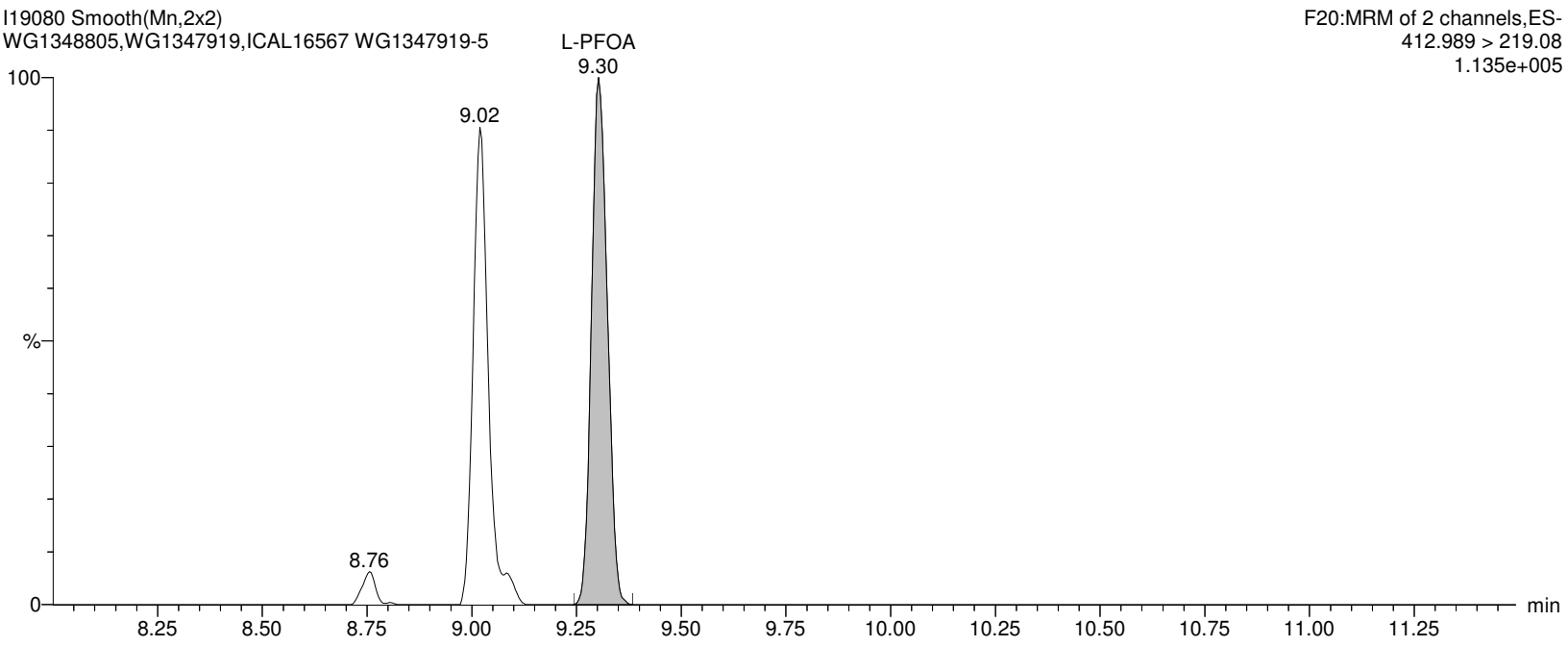

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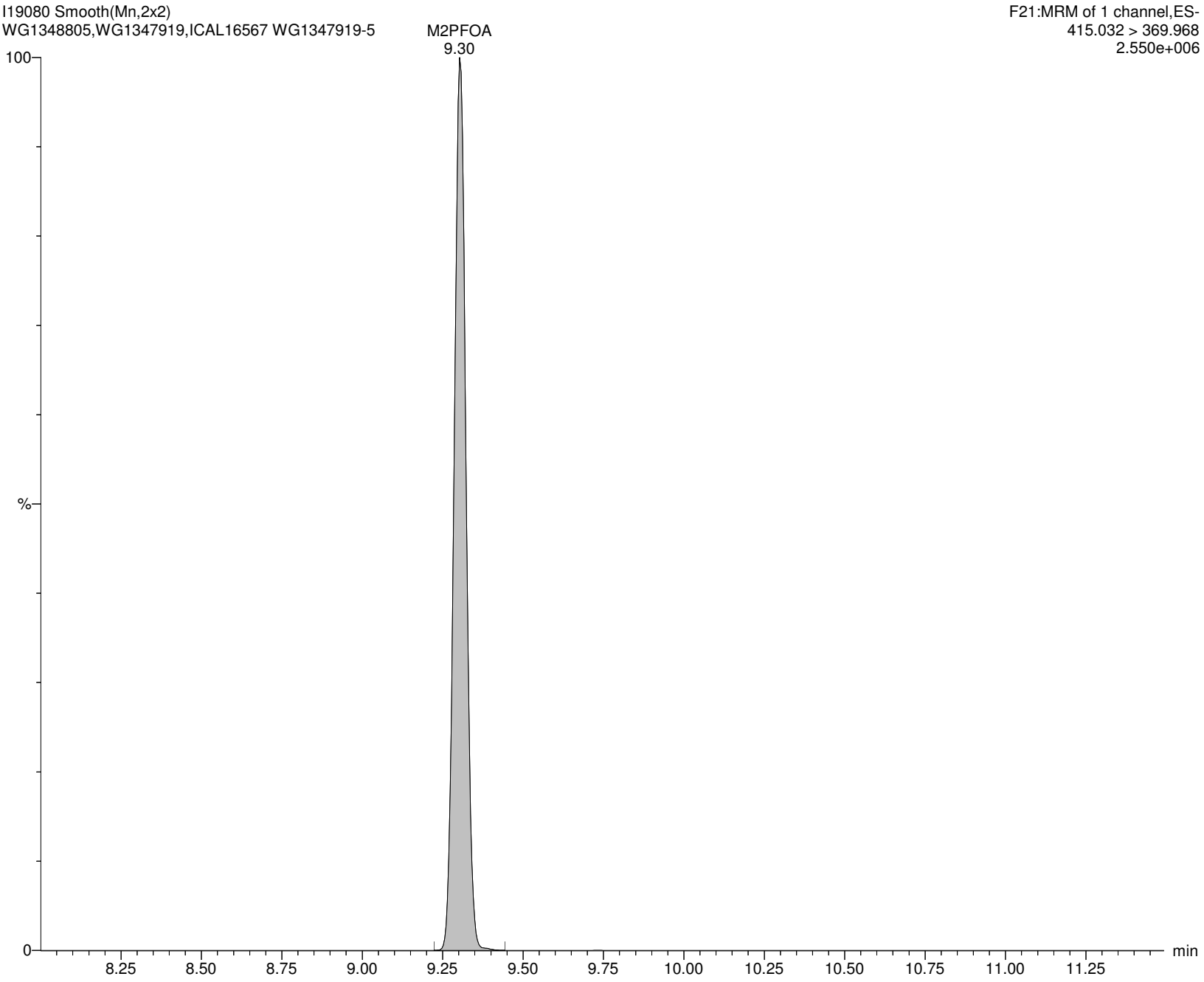

all concentration units in (ng/mL)

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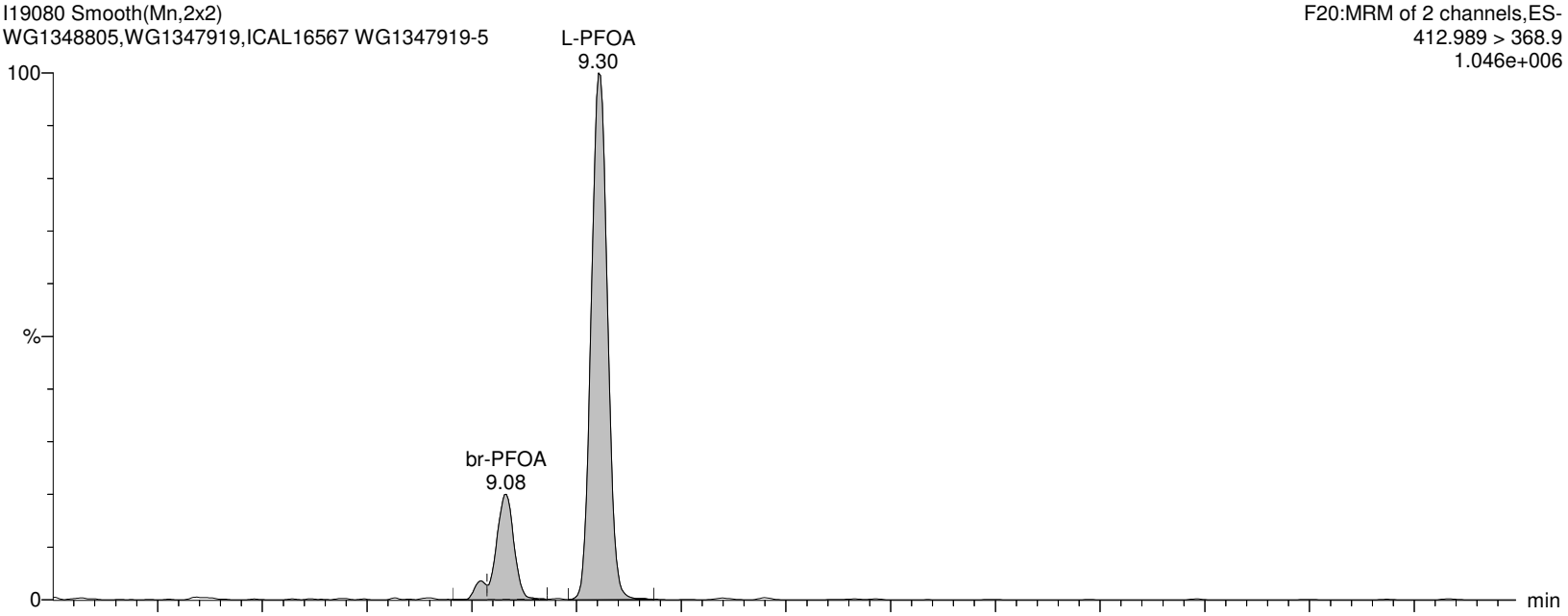

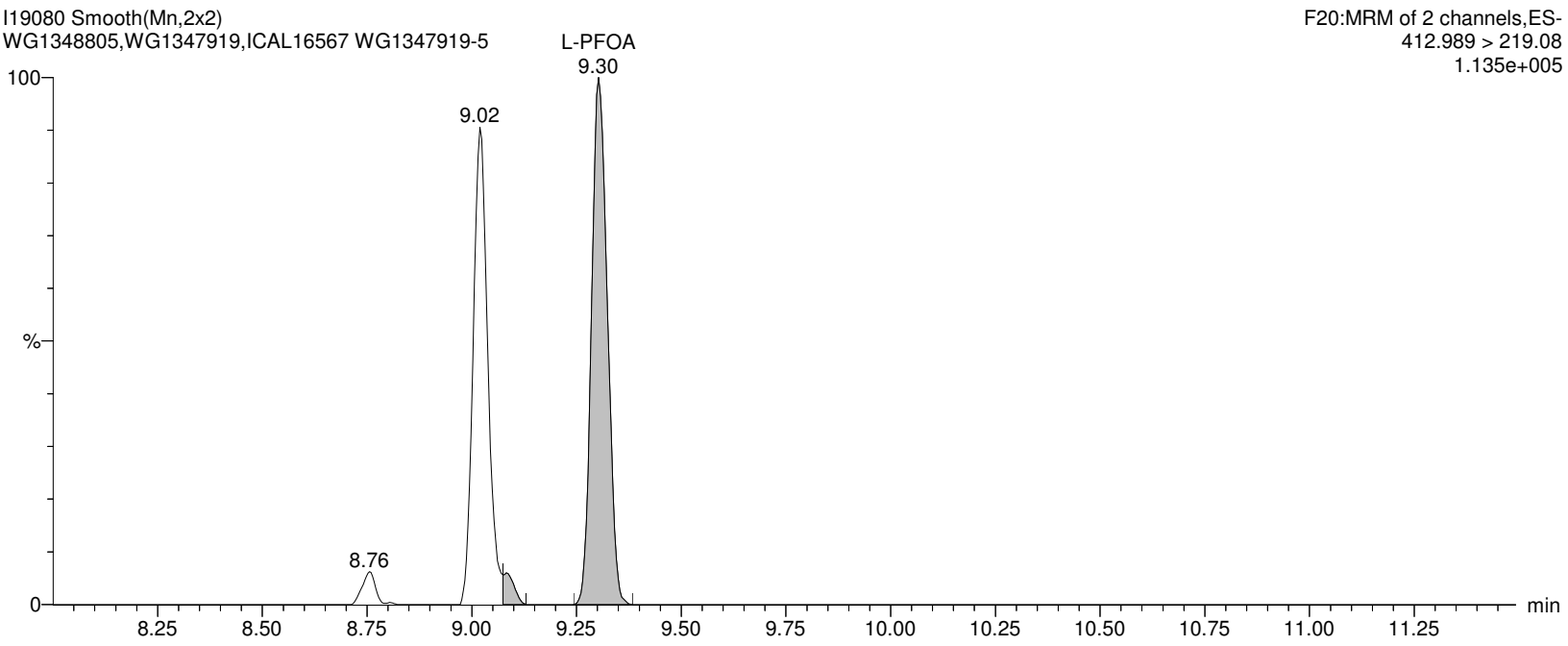

all concentration units in (ng/mL)

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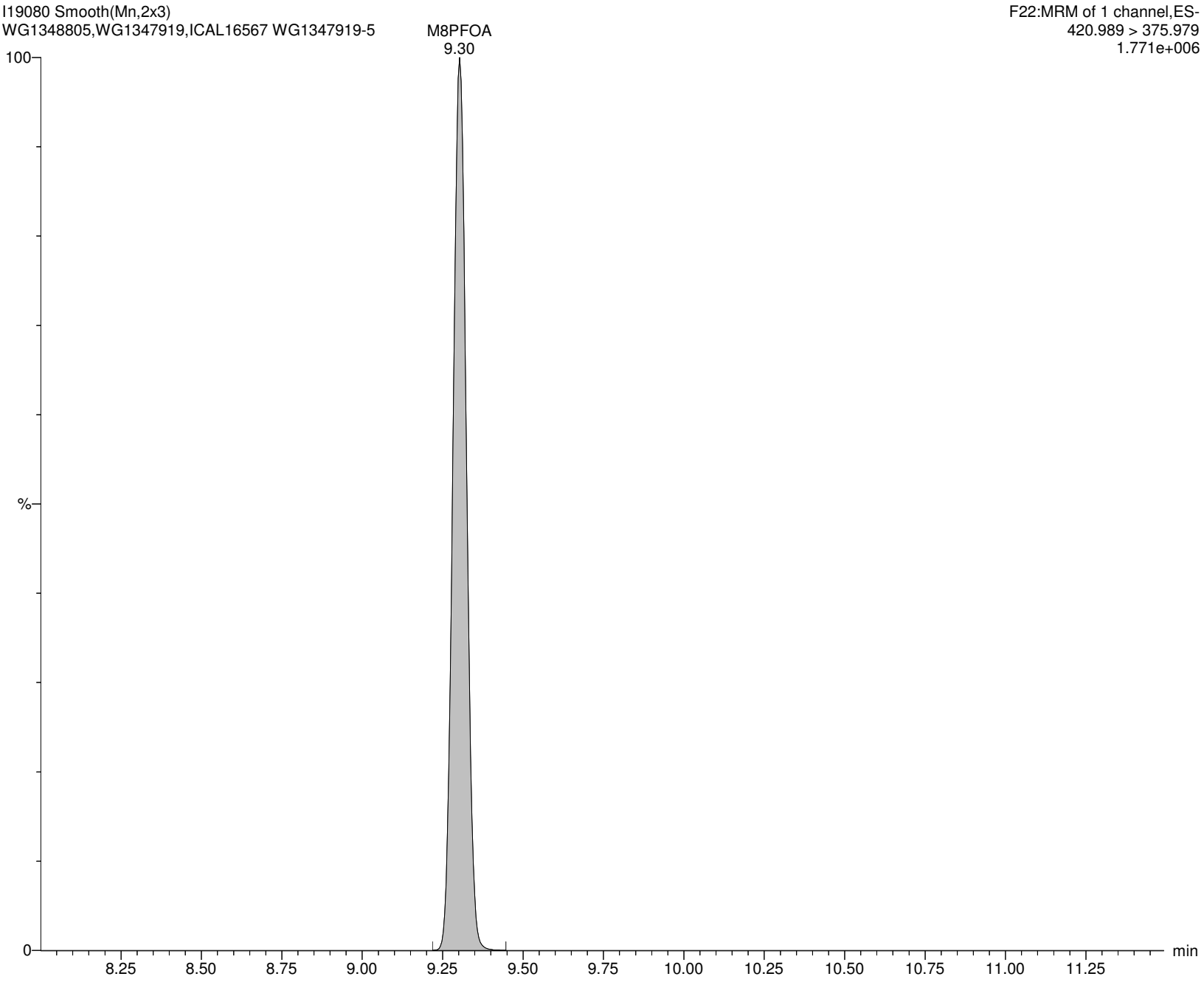

all concentration units in (ng/mL)

Alpha Analytical Inc.
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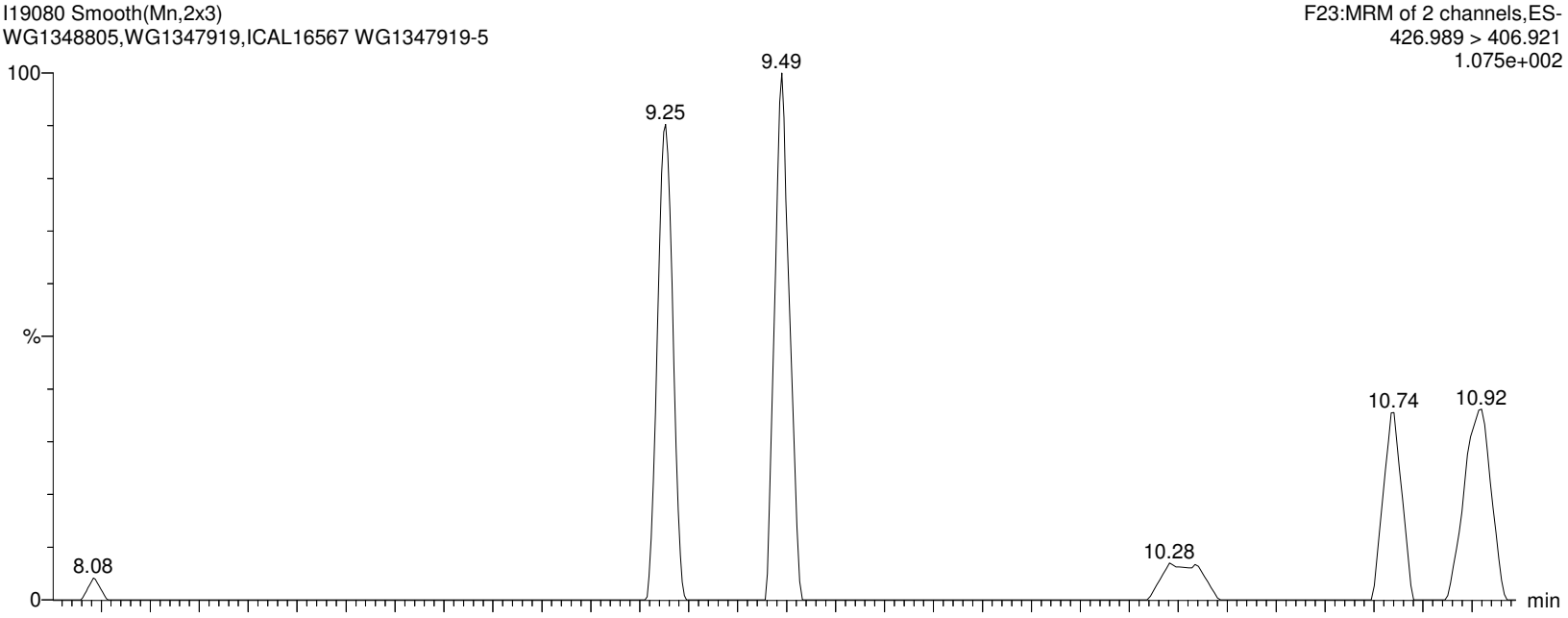
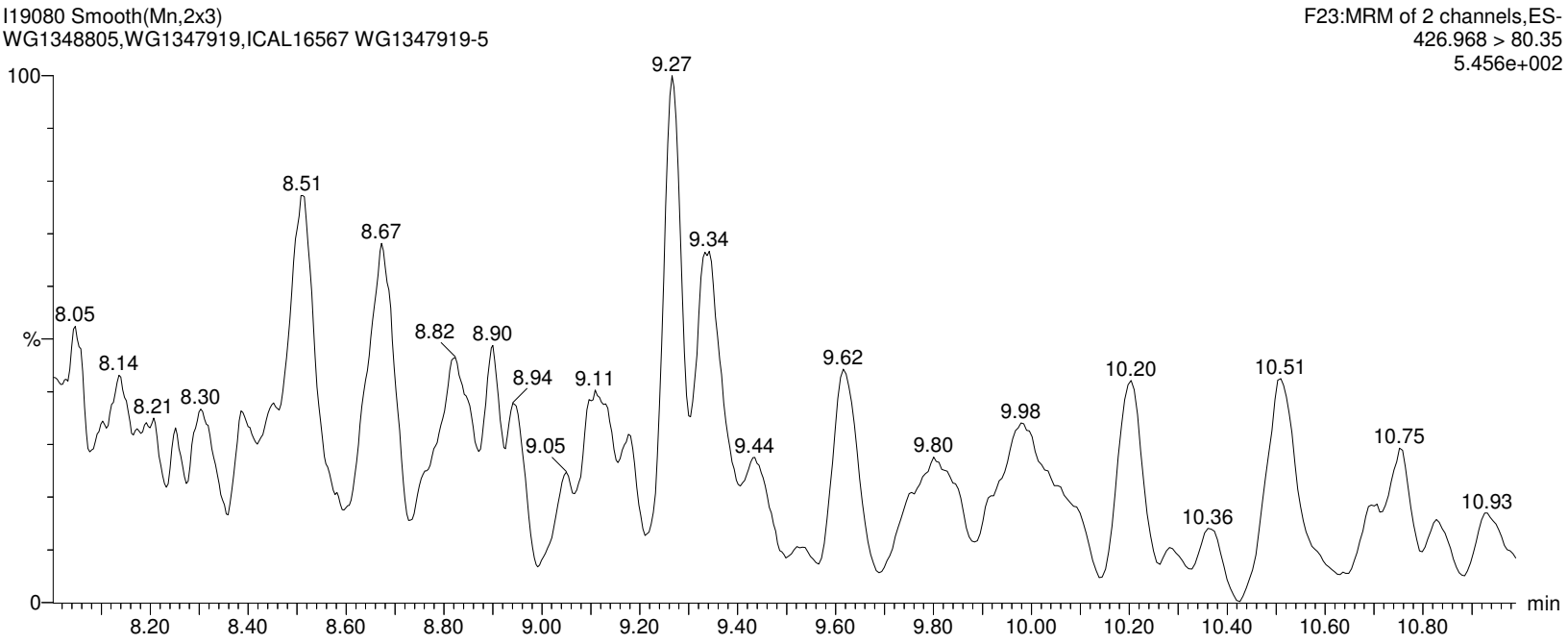
6:2FTS





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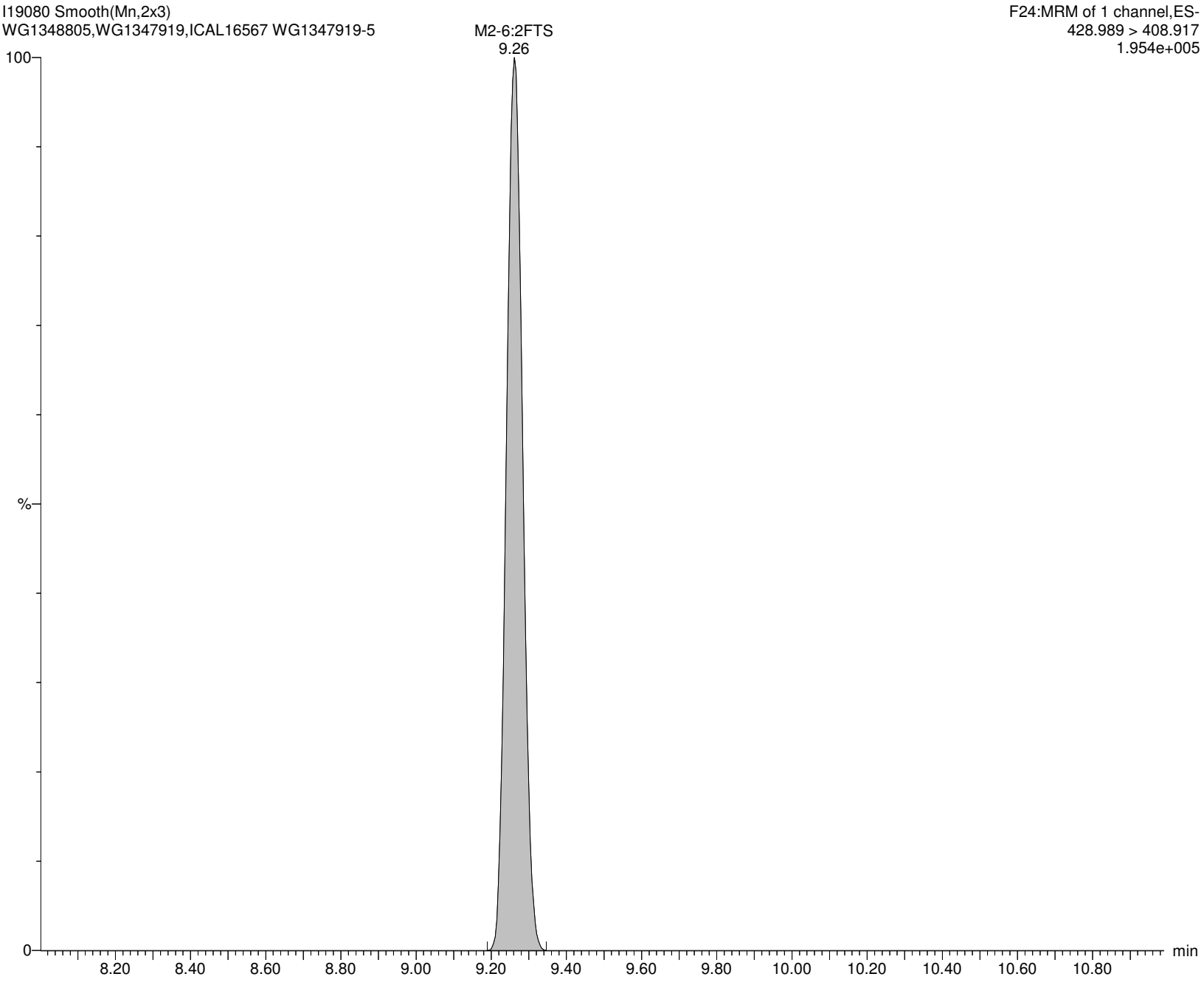

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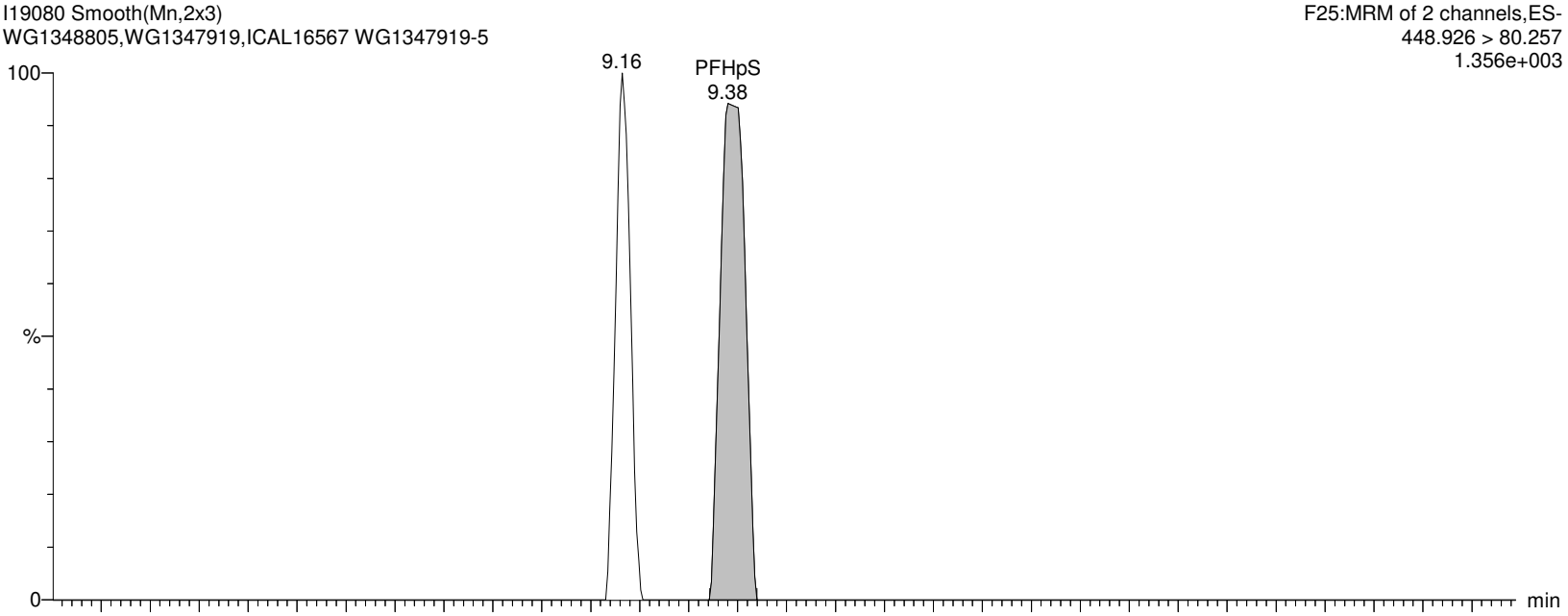

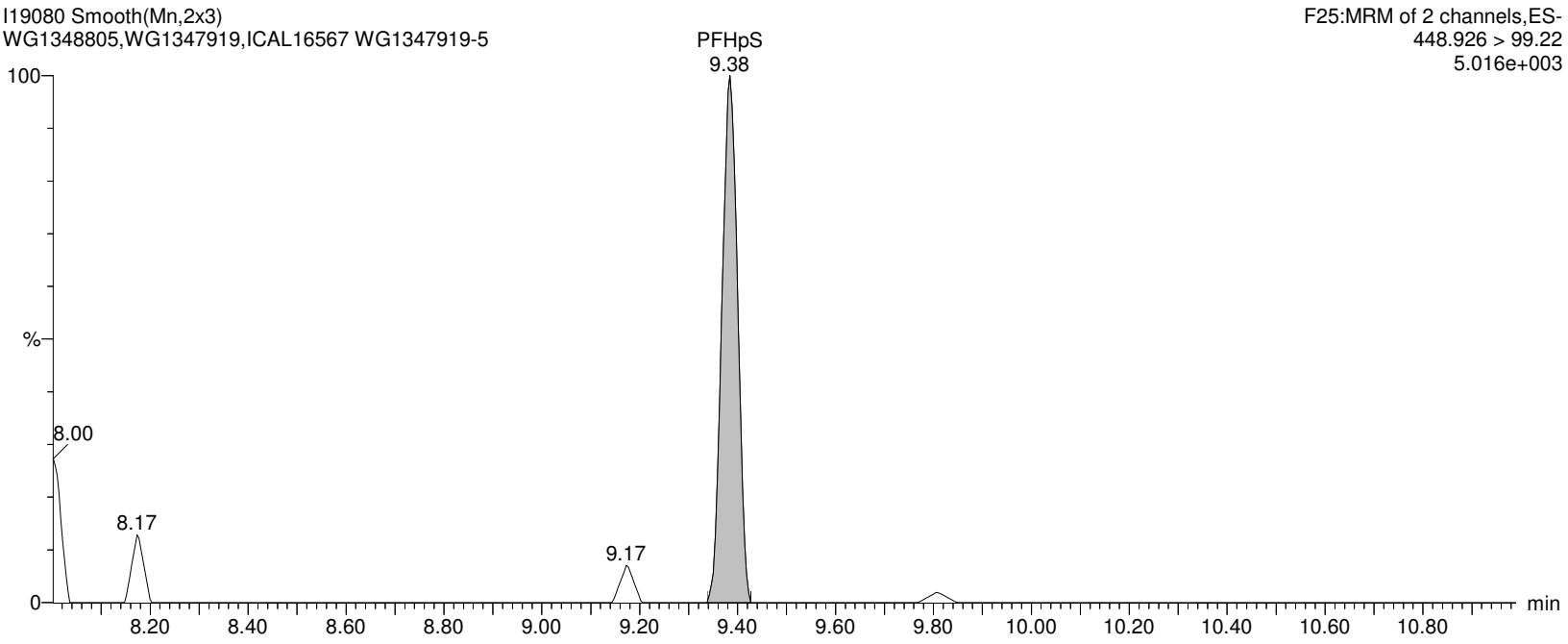

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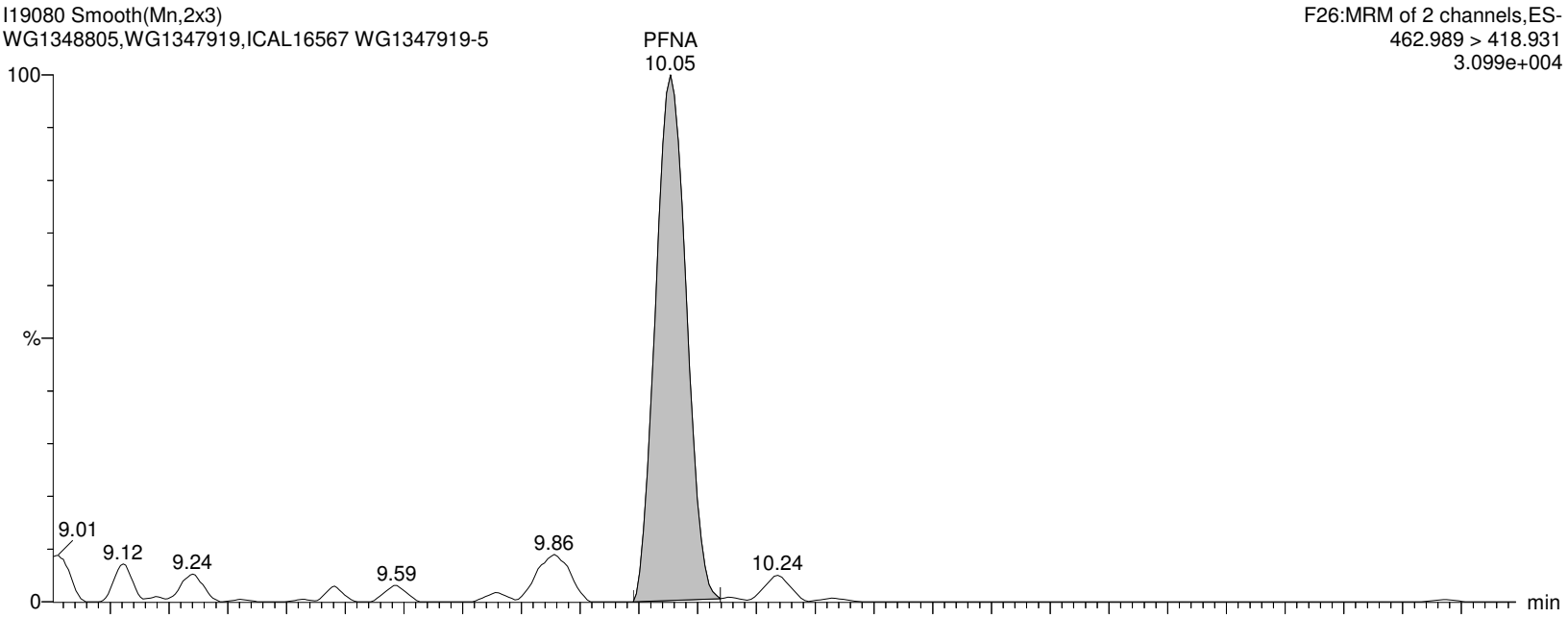

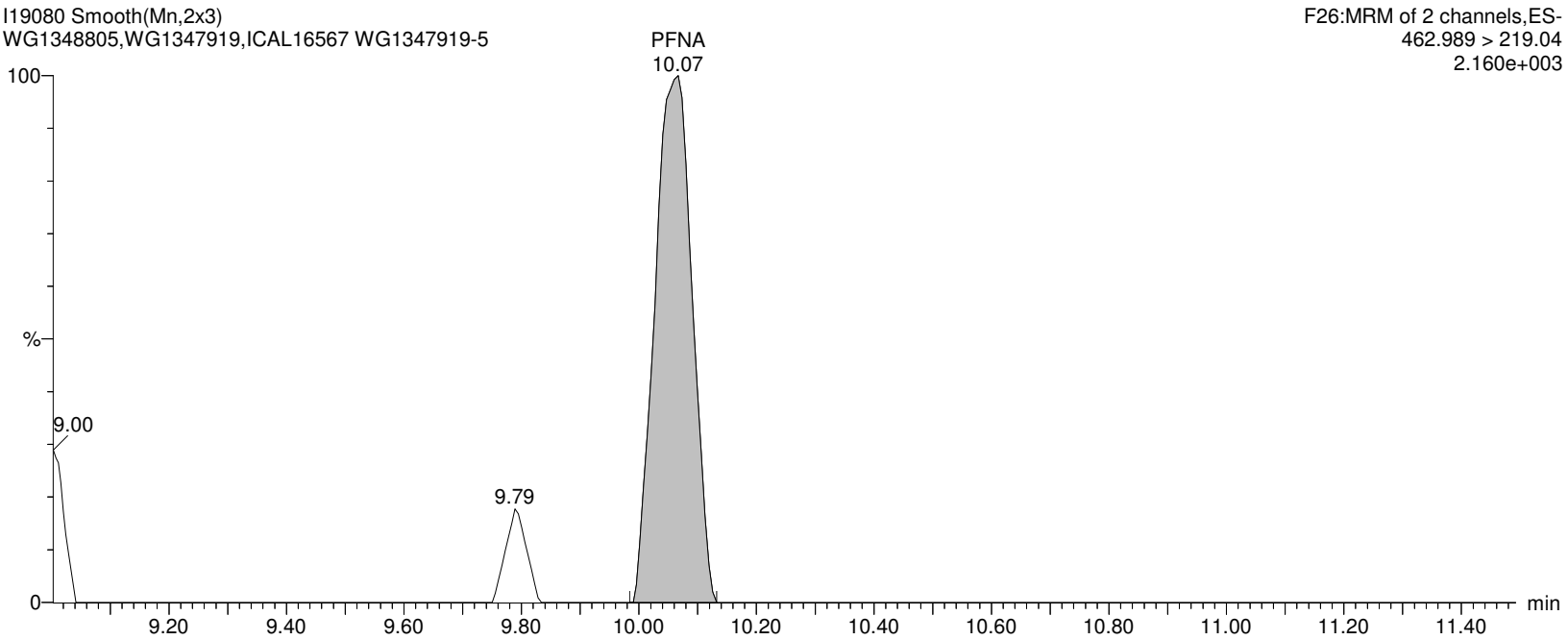

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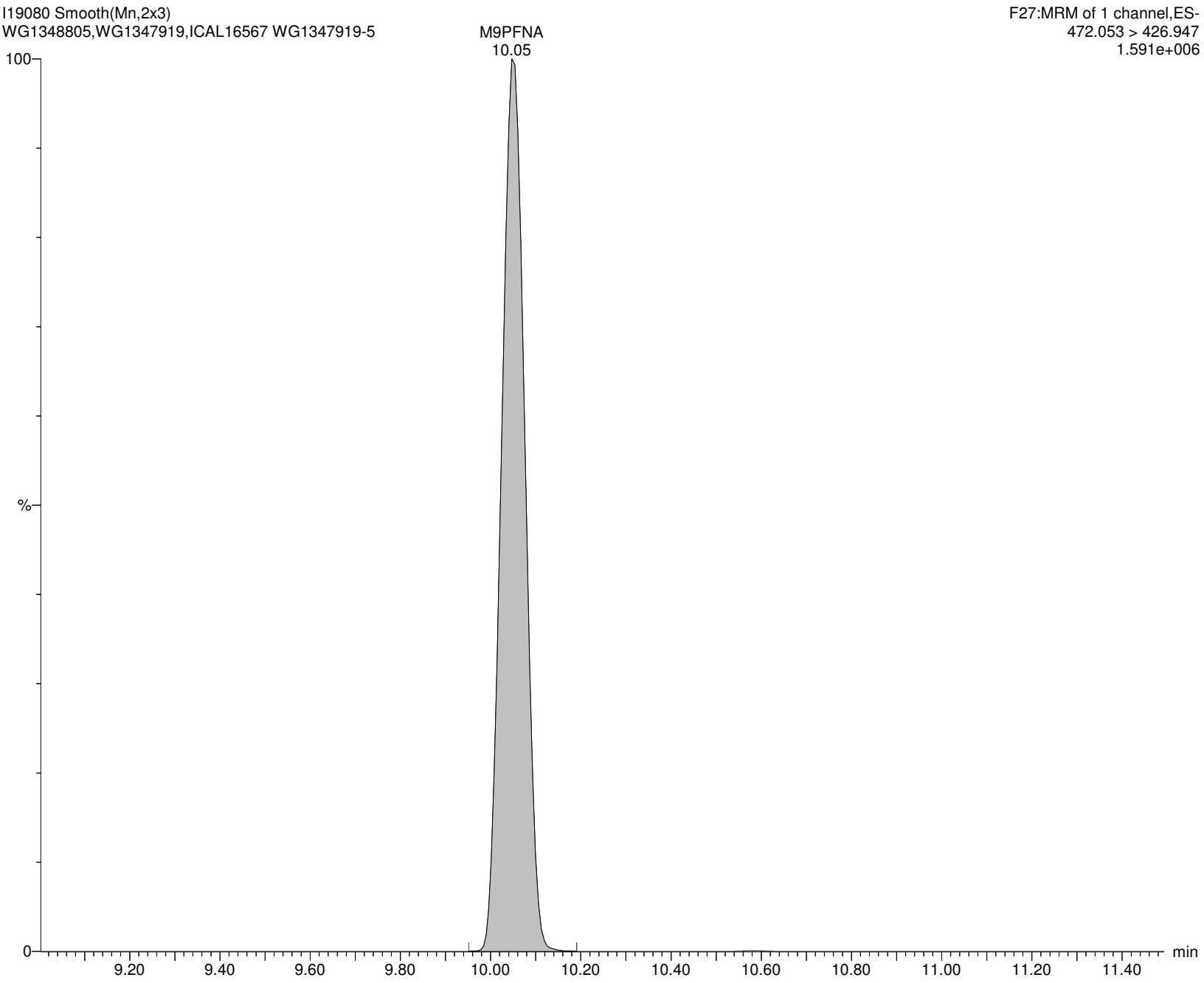
M9PFNA



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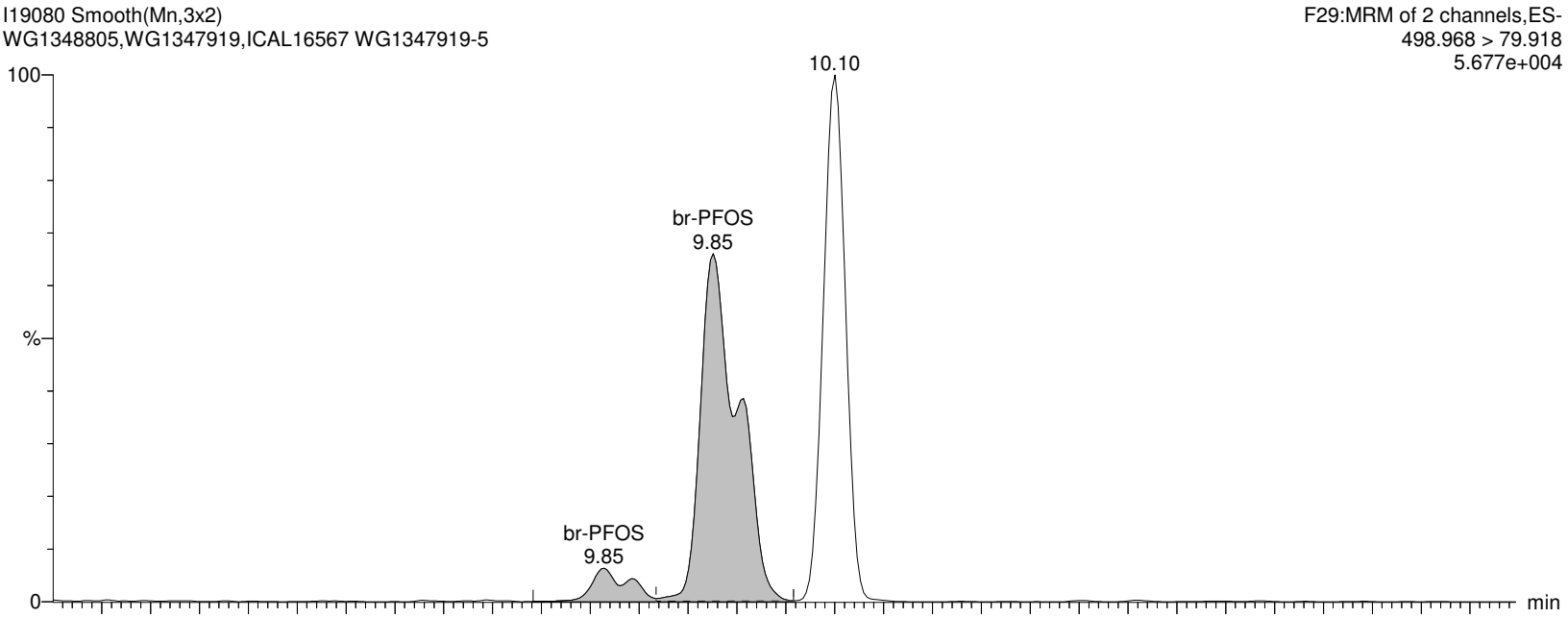
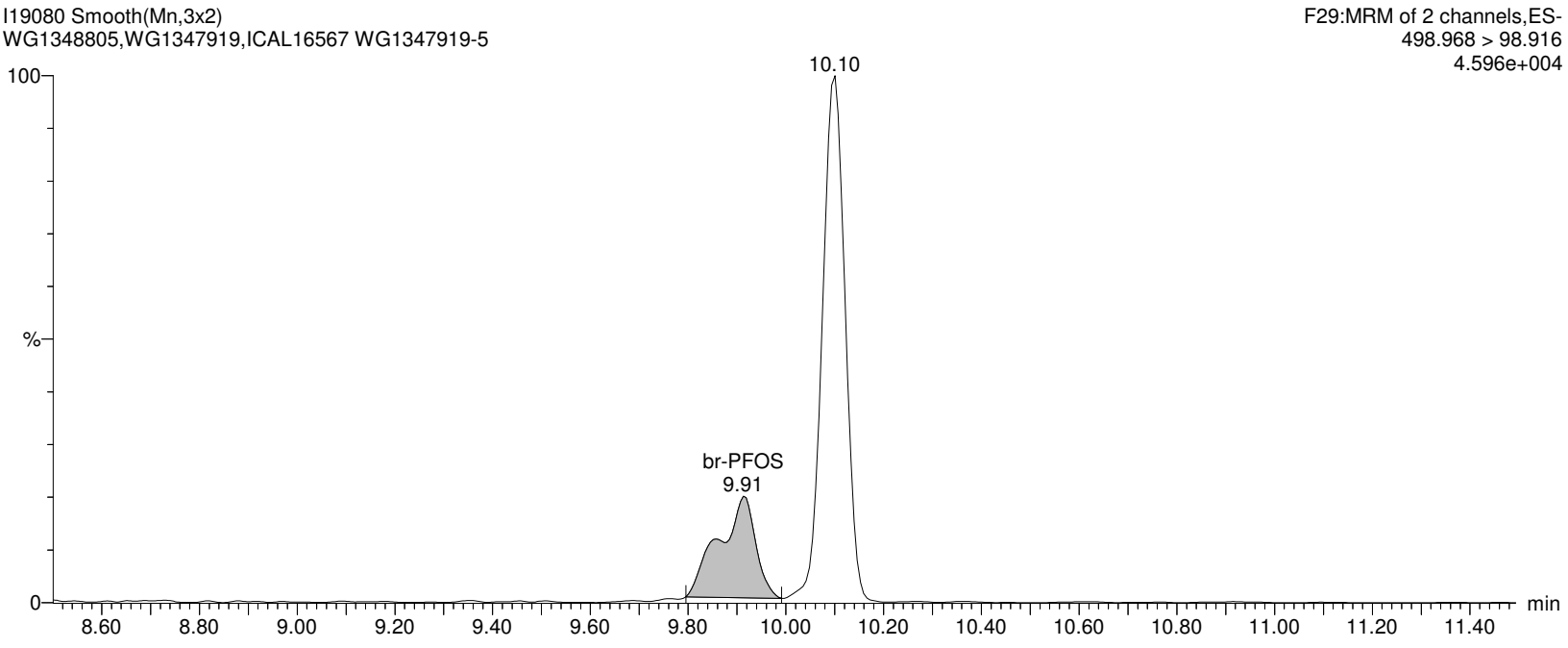
br-PFOS





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:22:13 Eastern Daylight Time

Name: I19080
ID: WG1347919-5
Date: 09-Mar-2020
Time: 15:56:46
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
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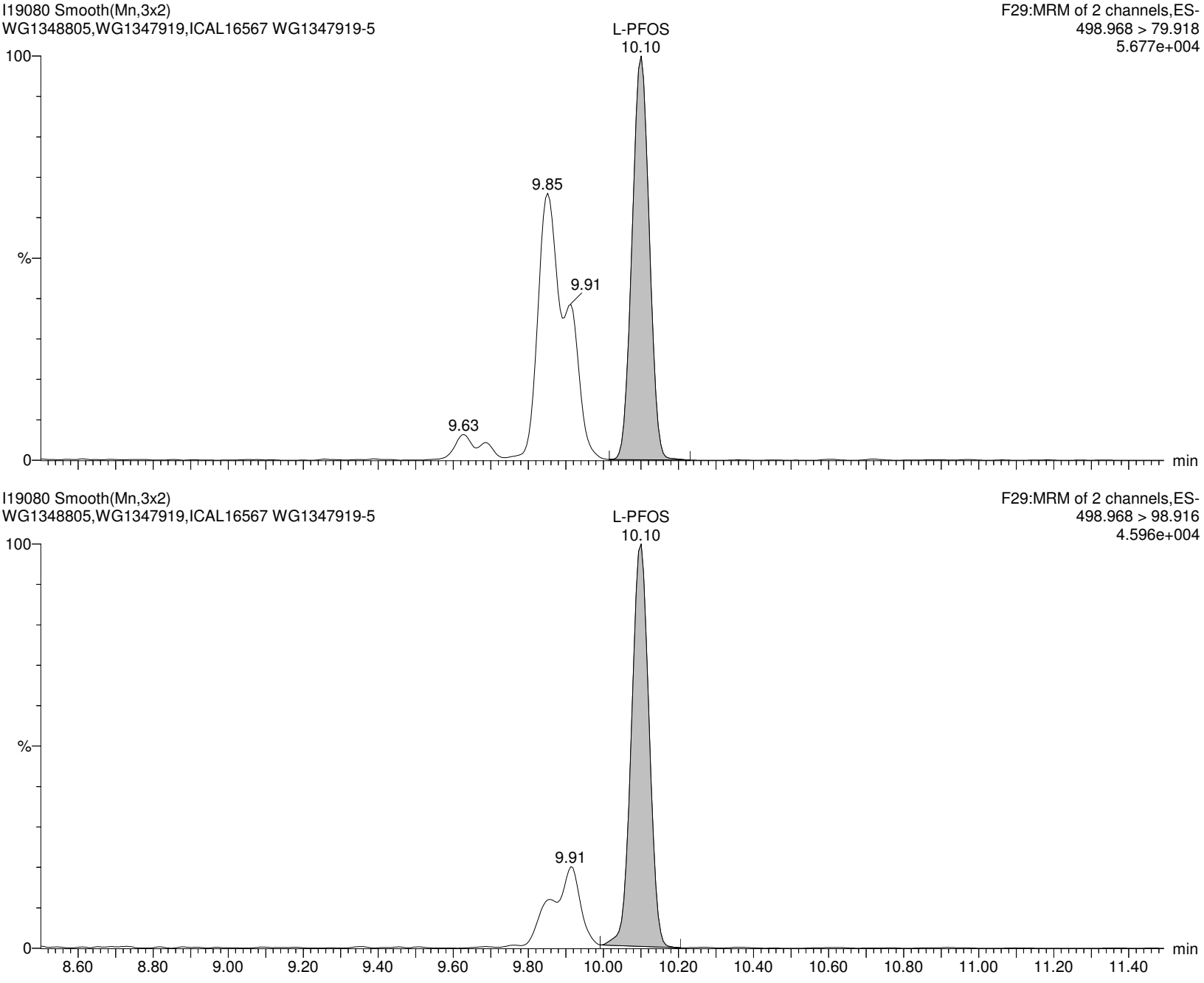

all concentration units in (ng/mL)

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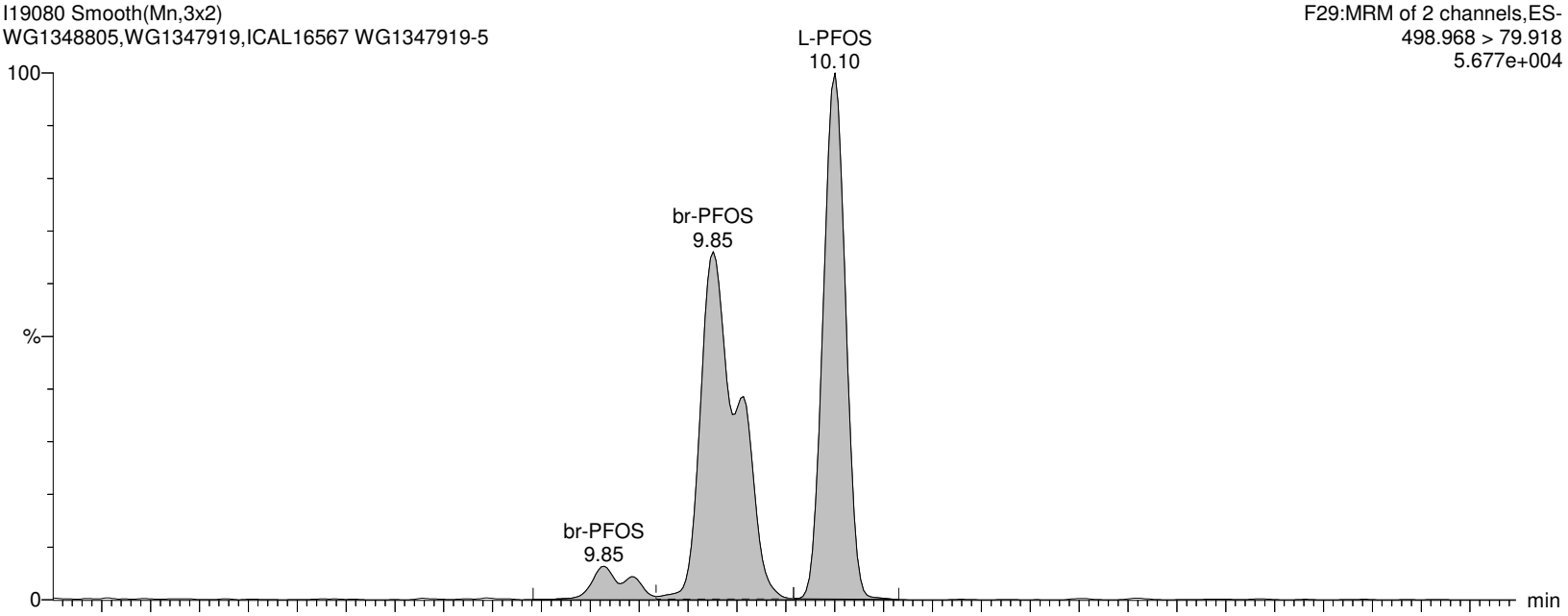

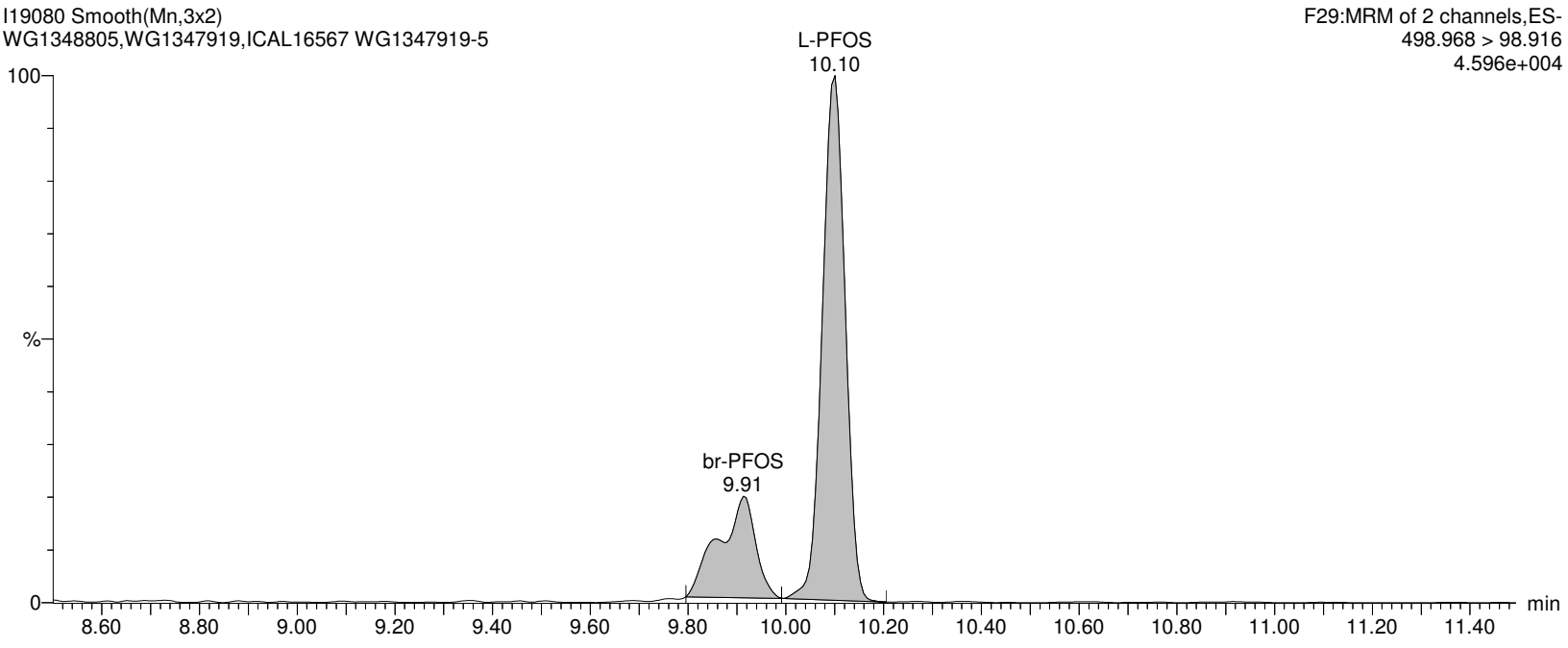

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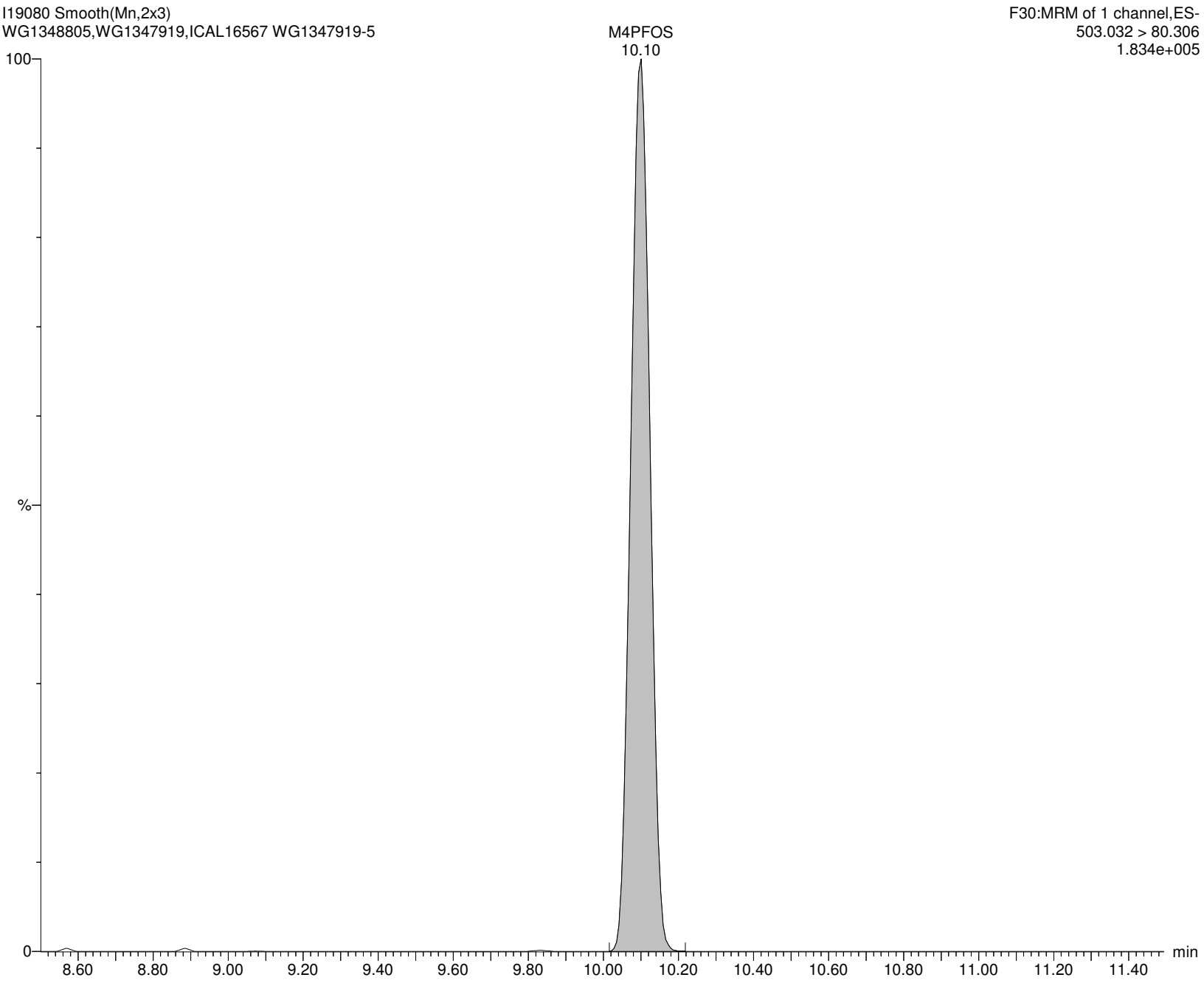

all concentration units in (ng/mL)

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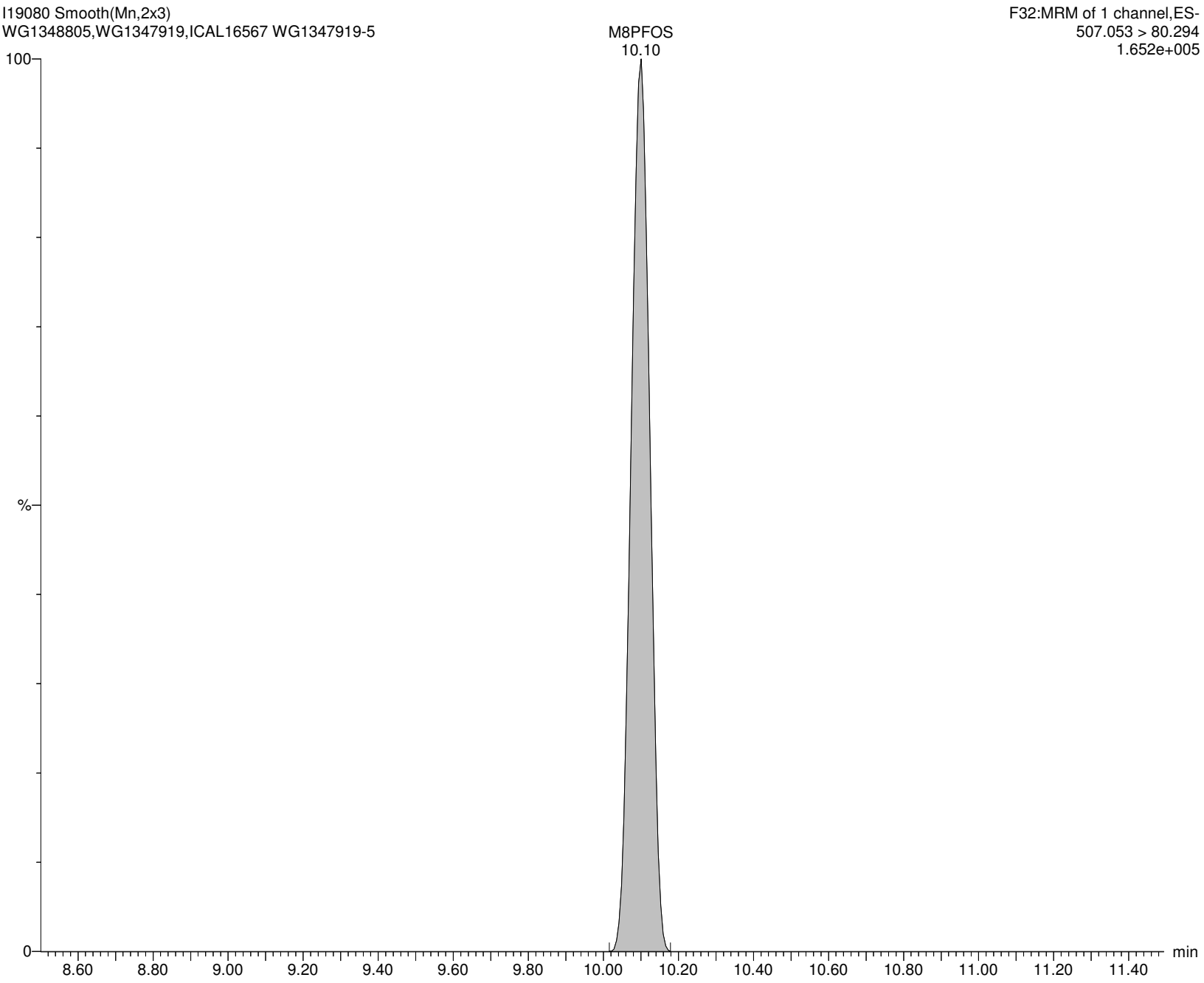

all concentration units in (ng/mL)

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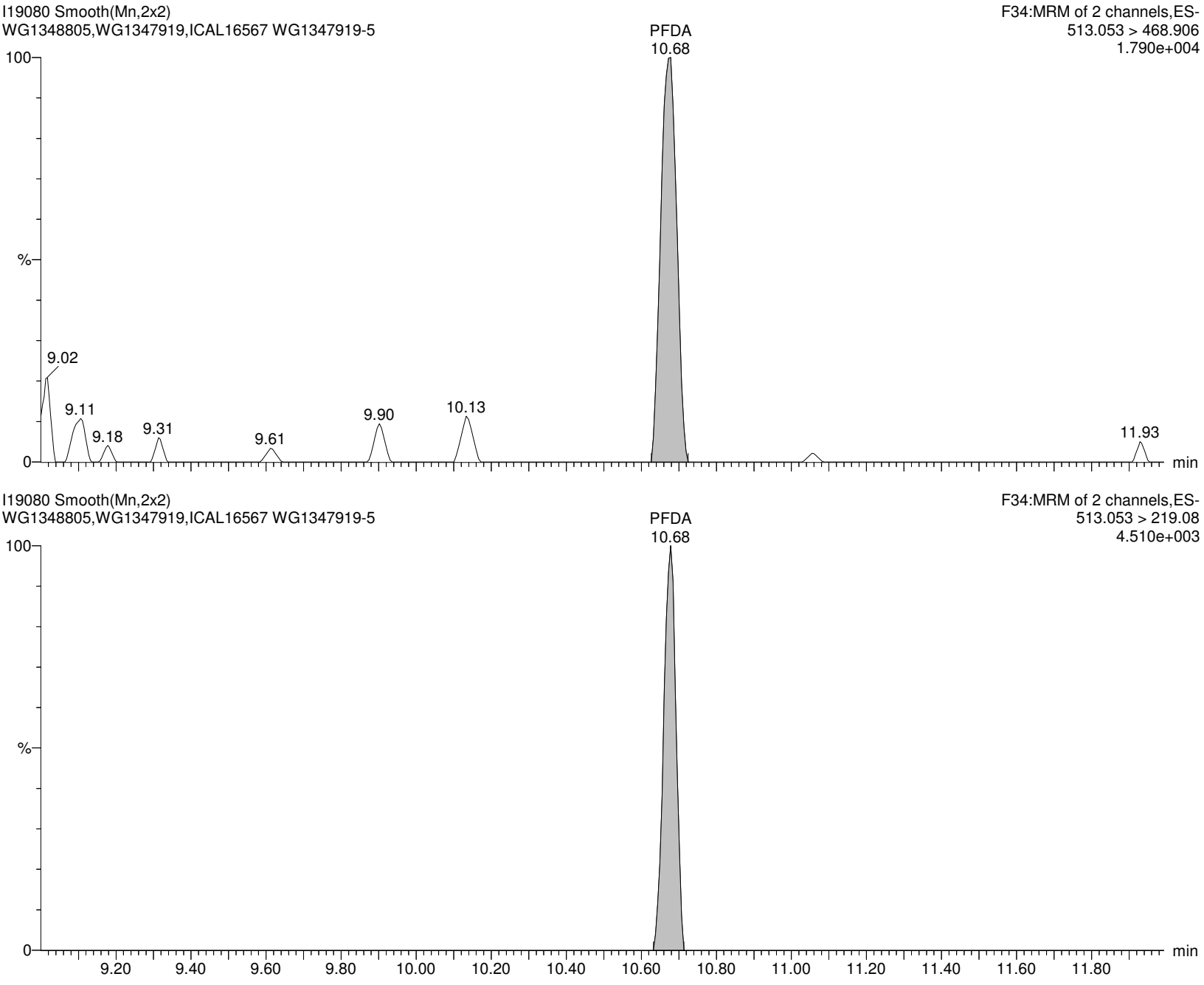

all concentration units in (ng/mL)

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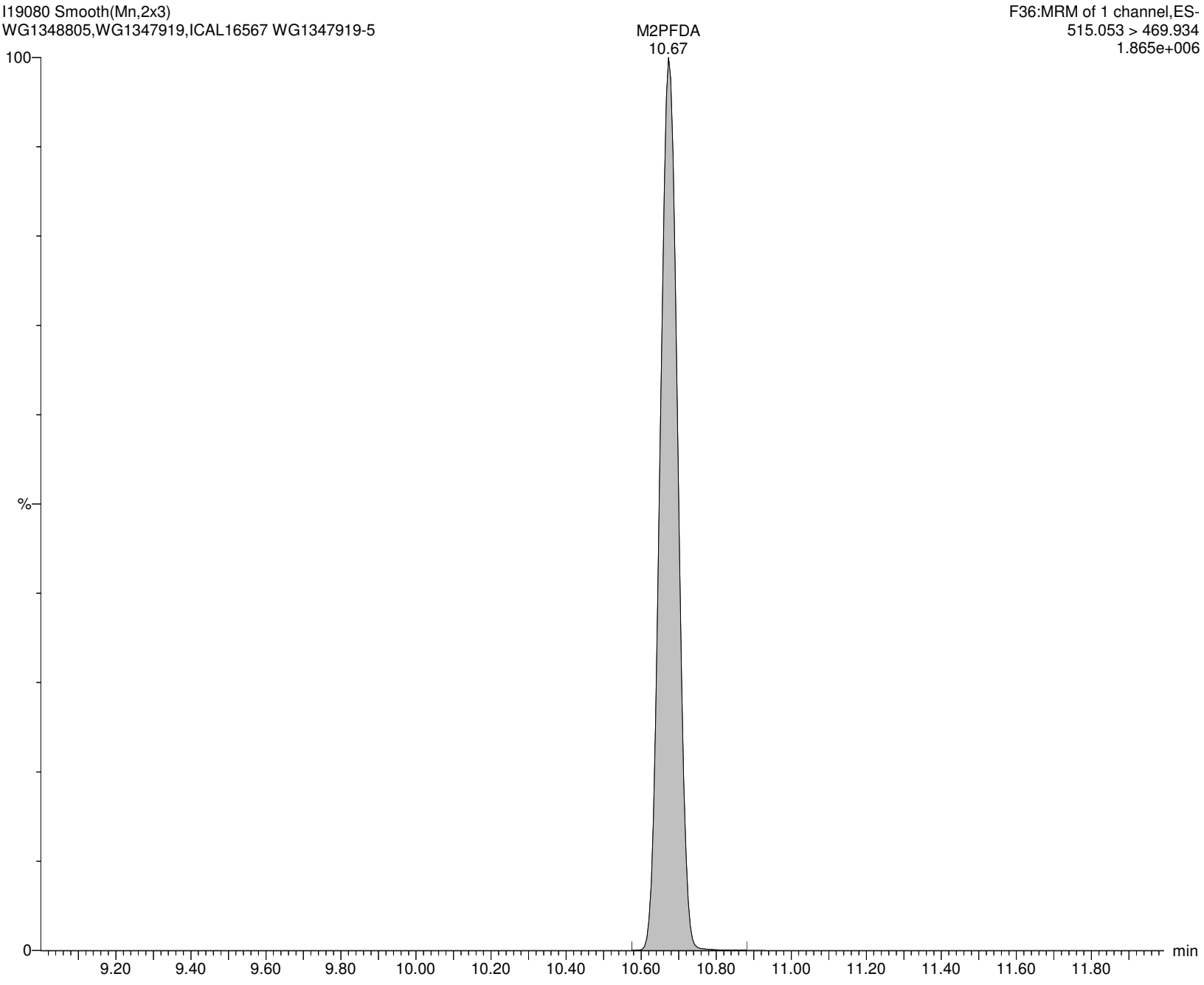

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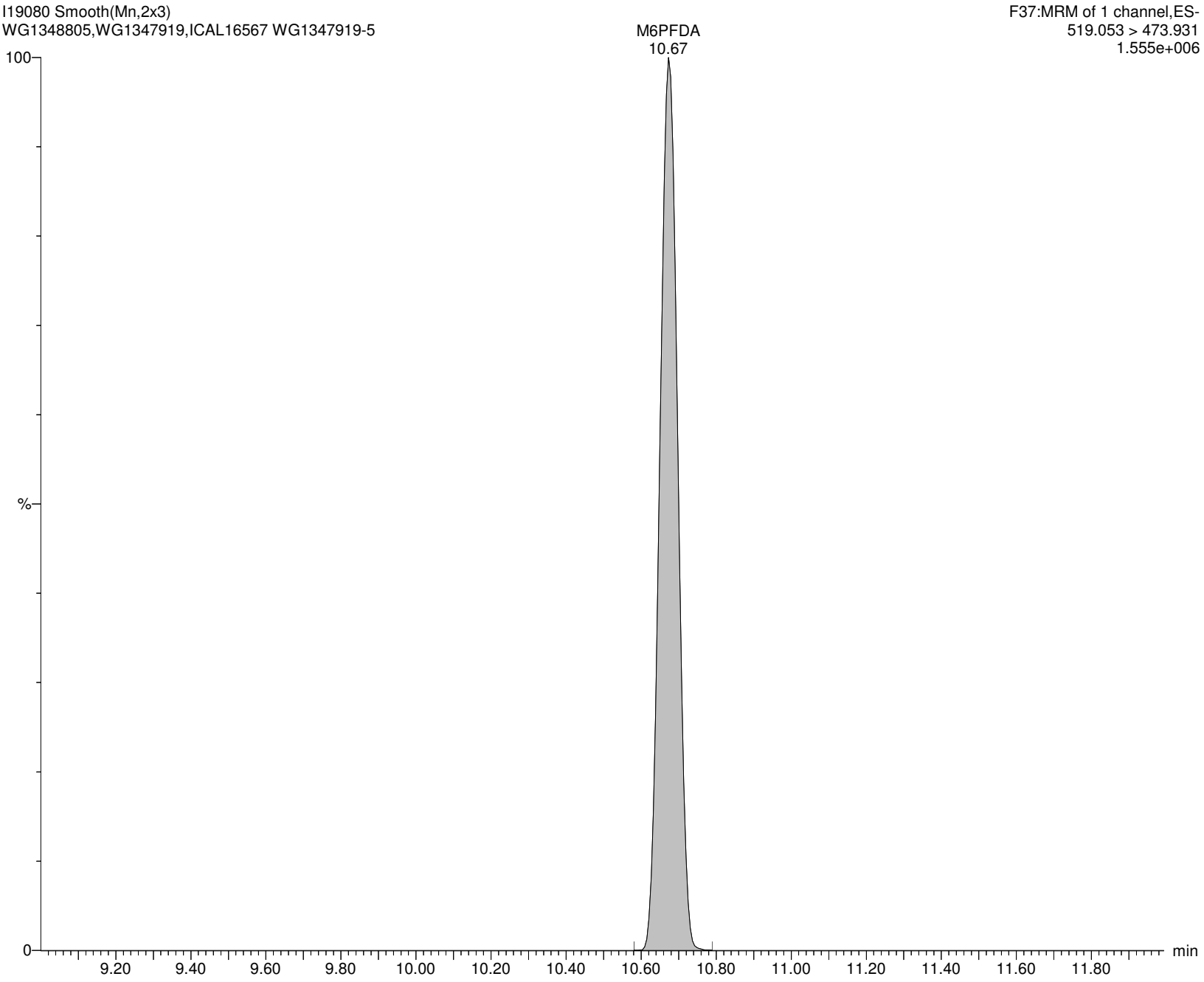

all concentration units in (ng/mL)

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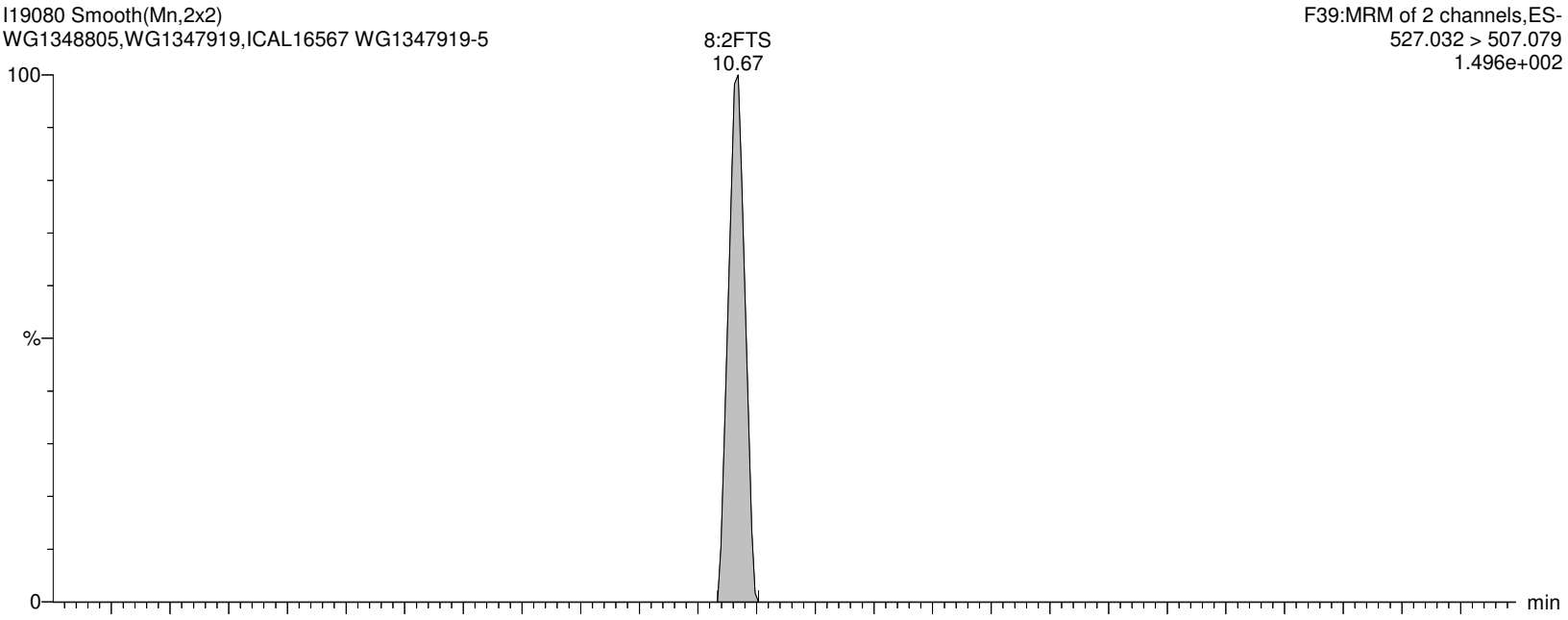

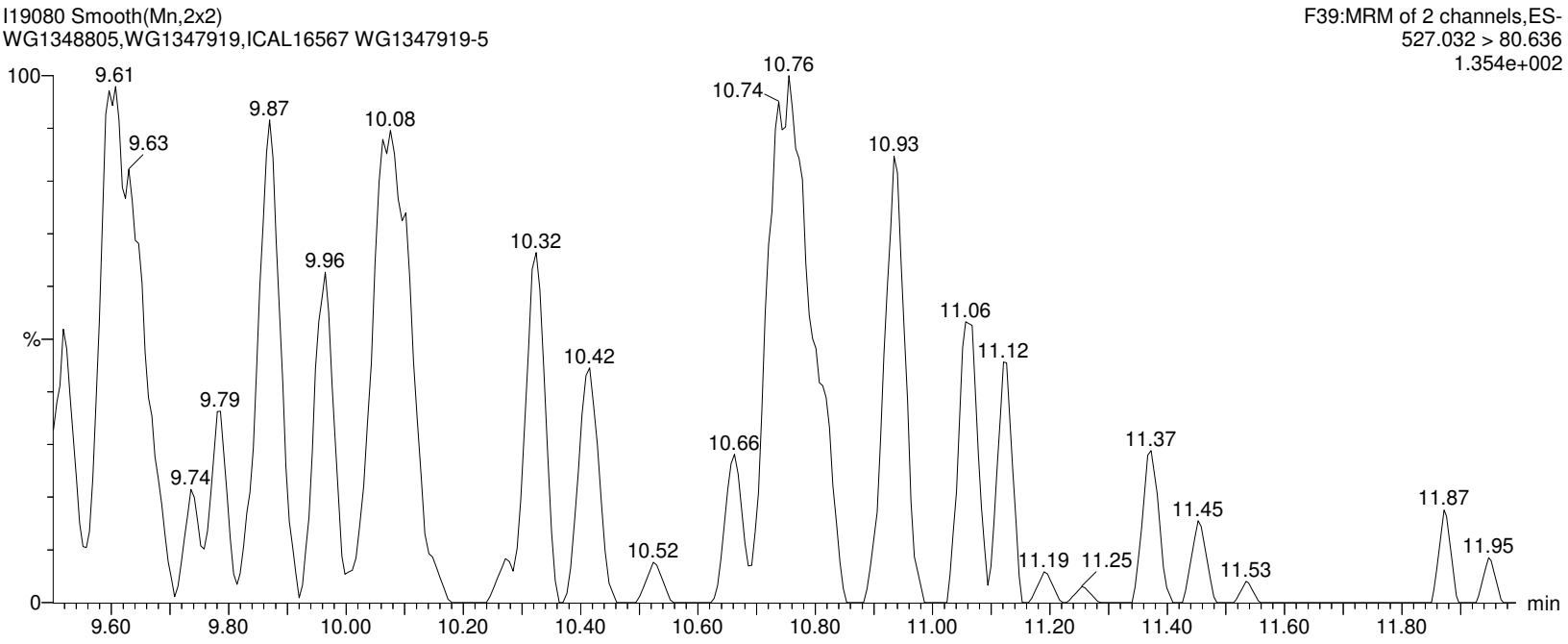

all concentration units in (ng/mL)

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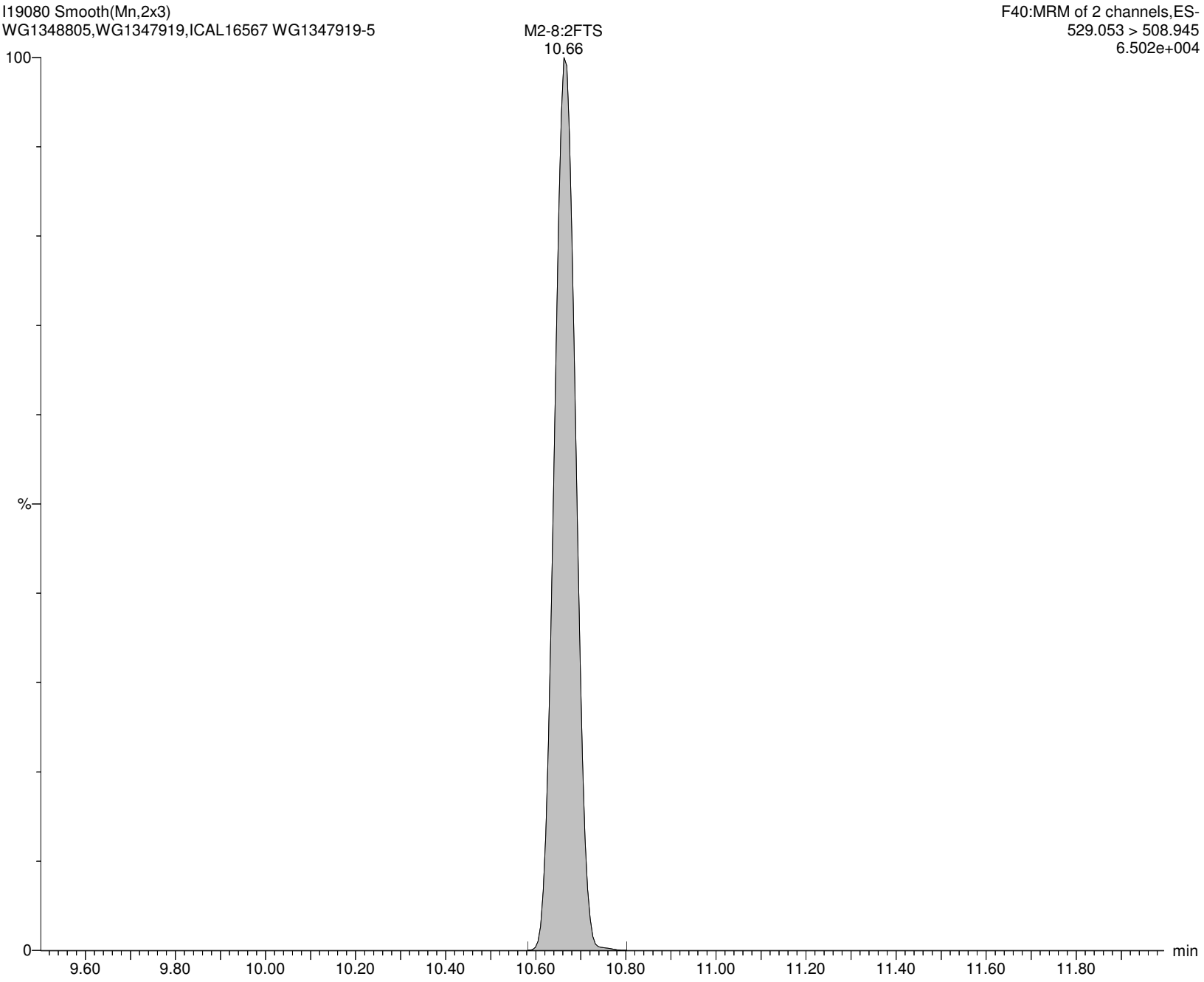

all concentration units in (ng/mL)

Alpha Analytical Inc.
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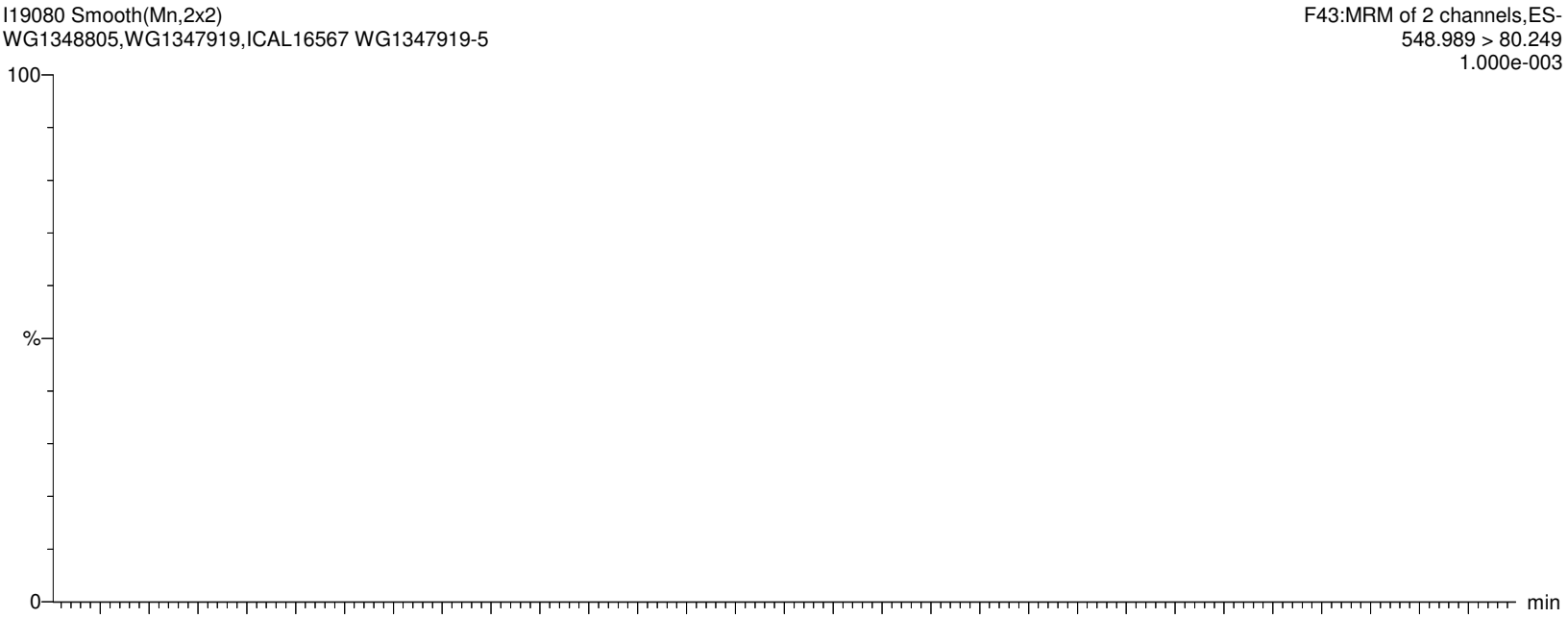
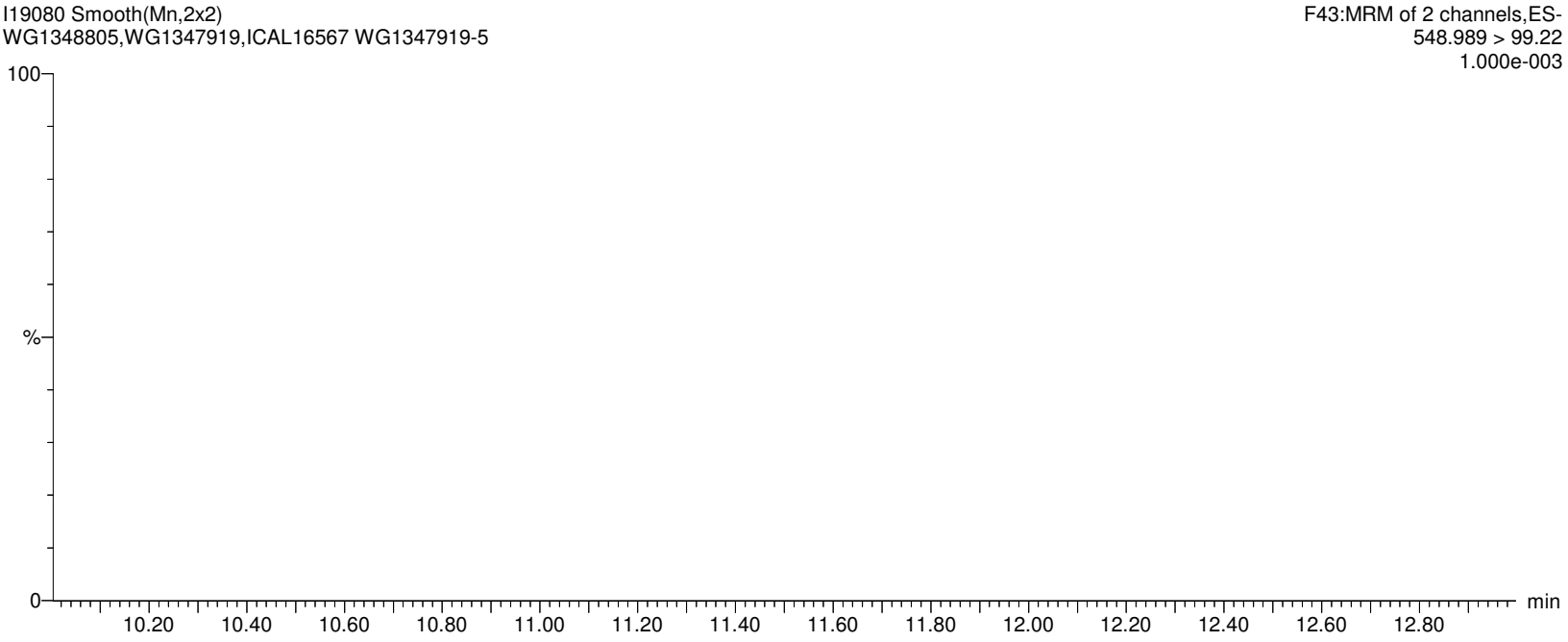
PFNS





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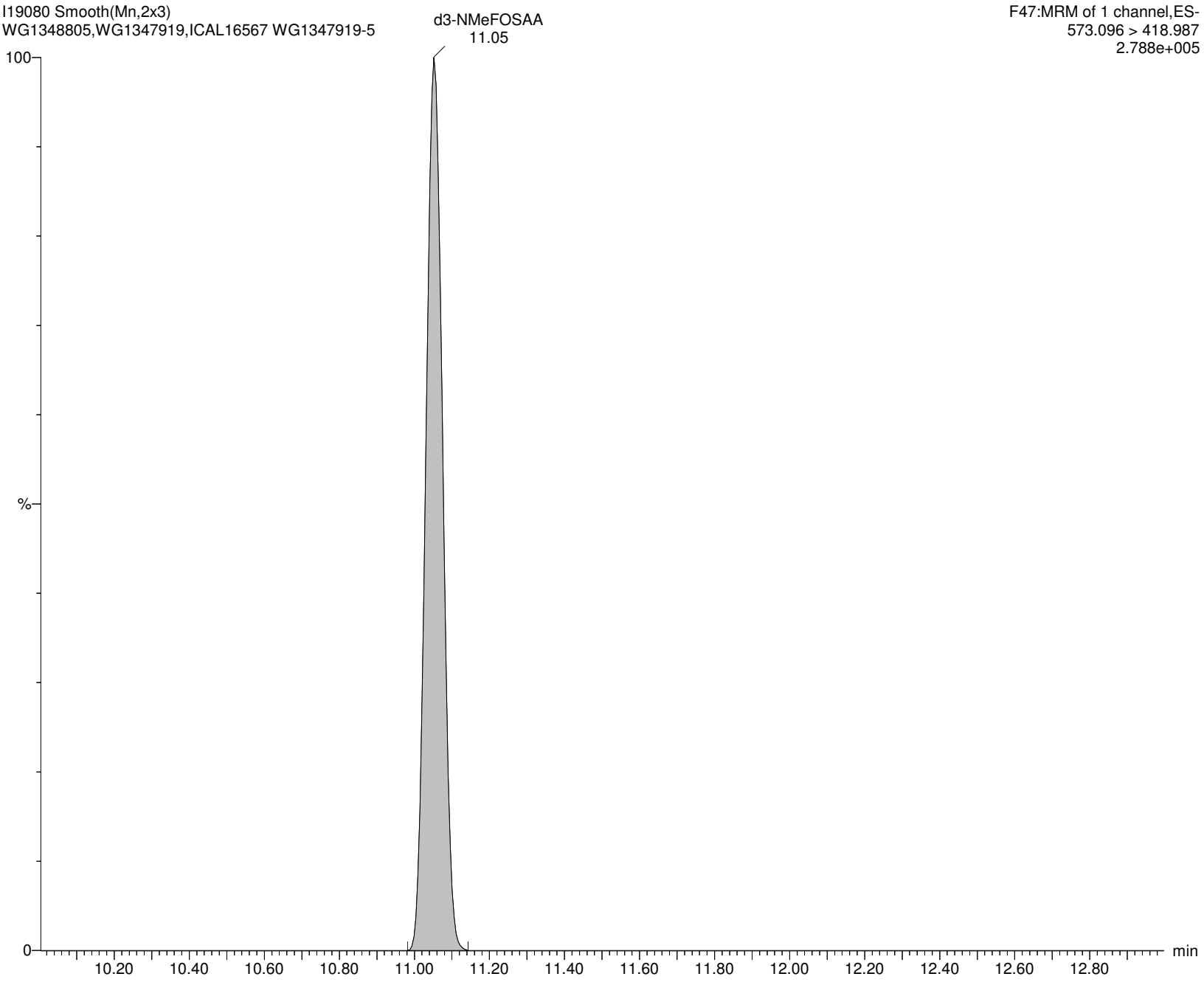

all concentration units in (ng/mL)

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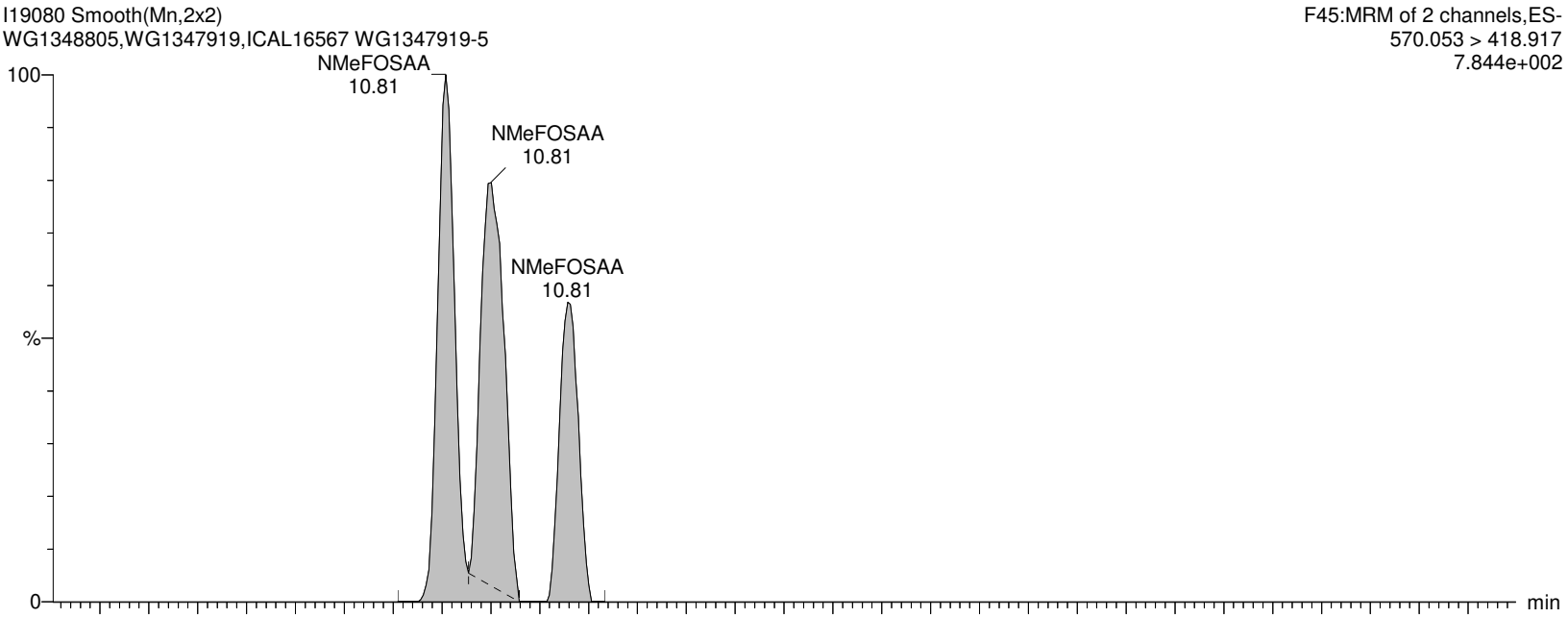

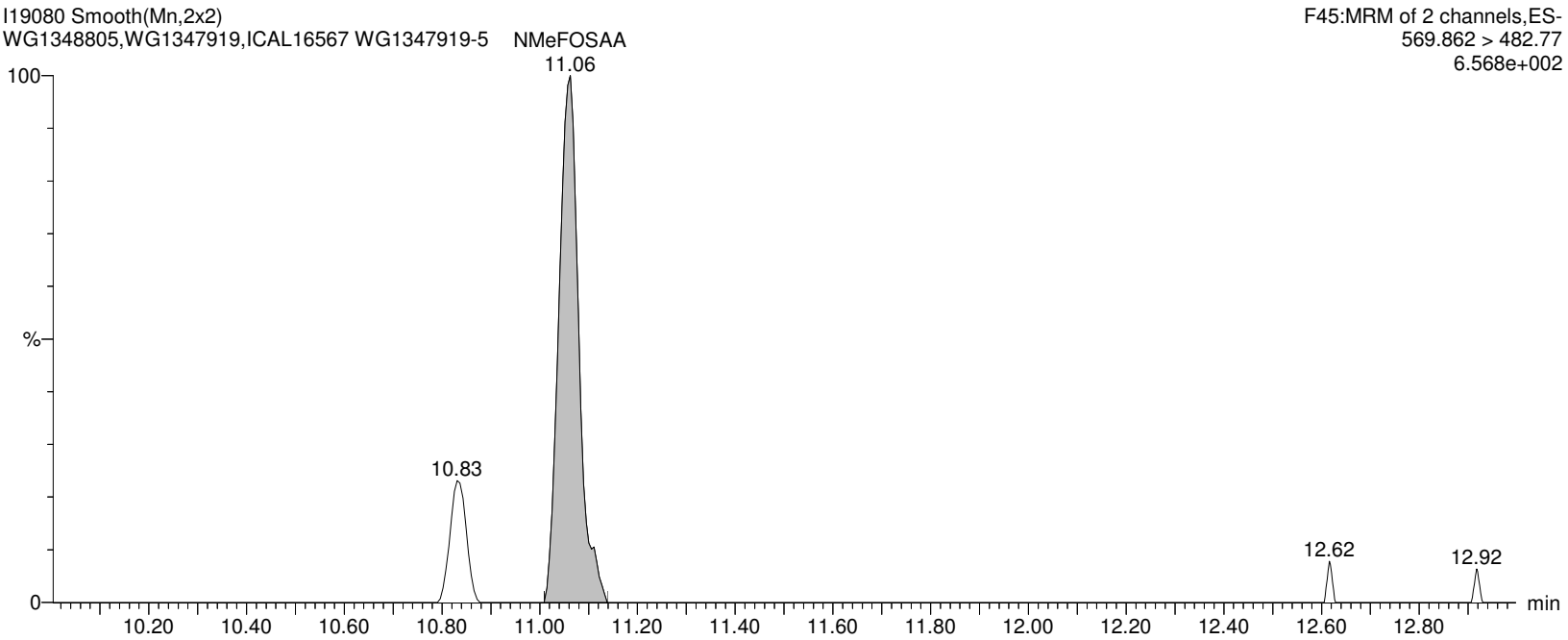

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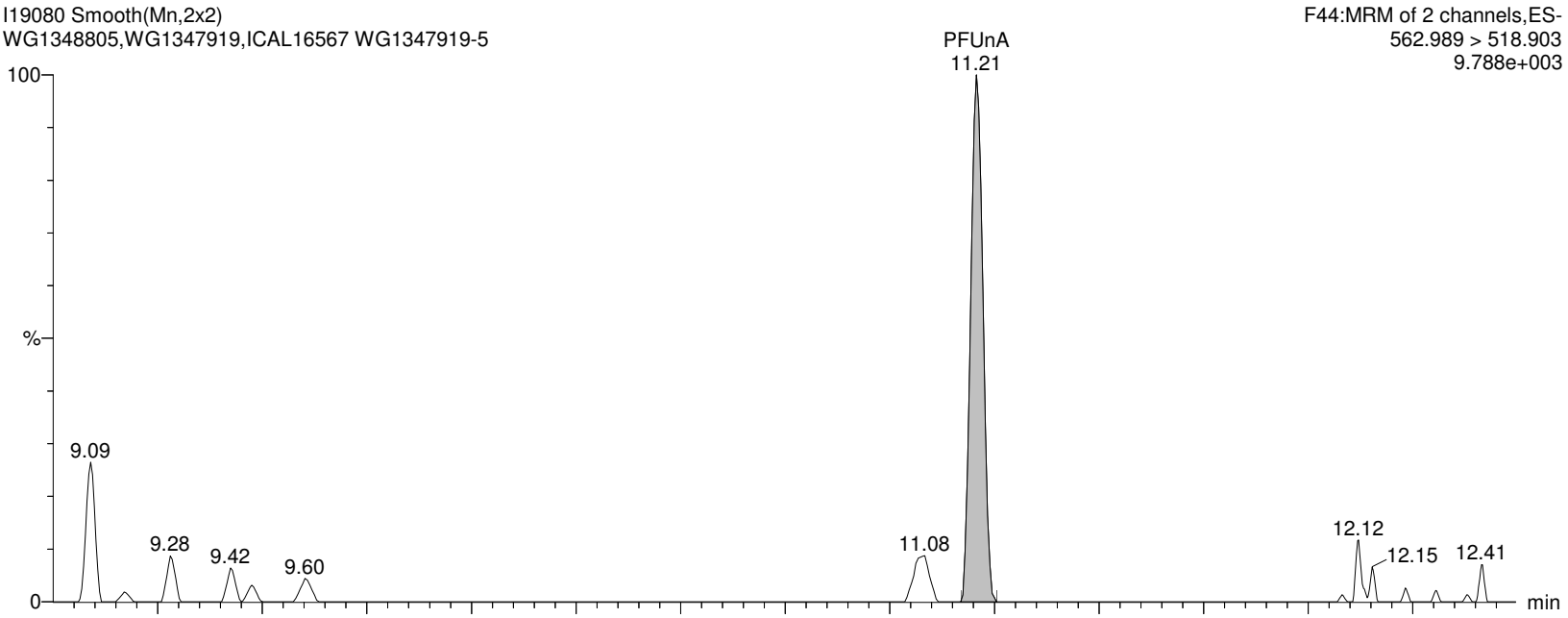

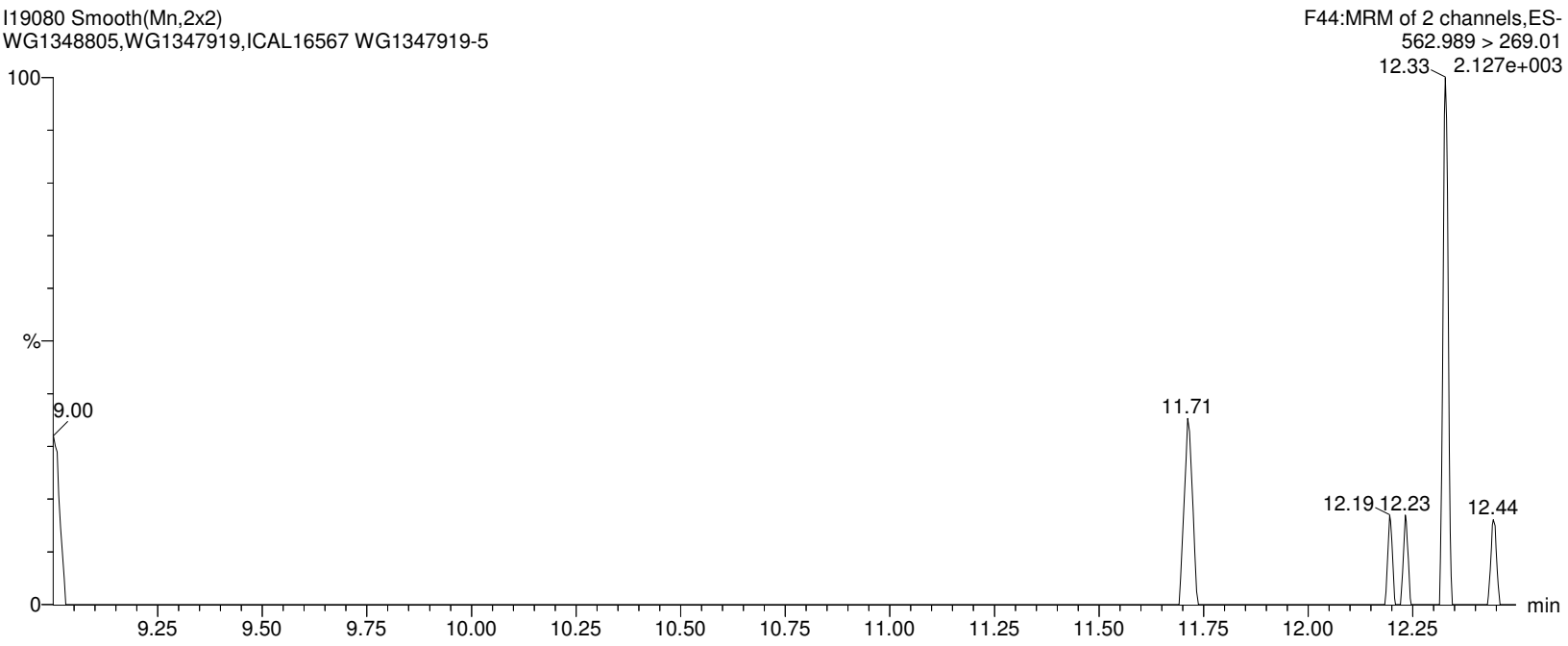

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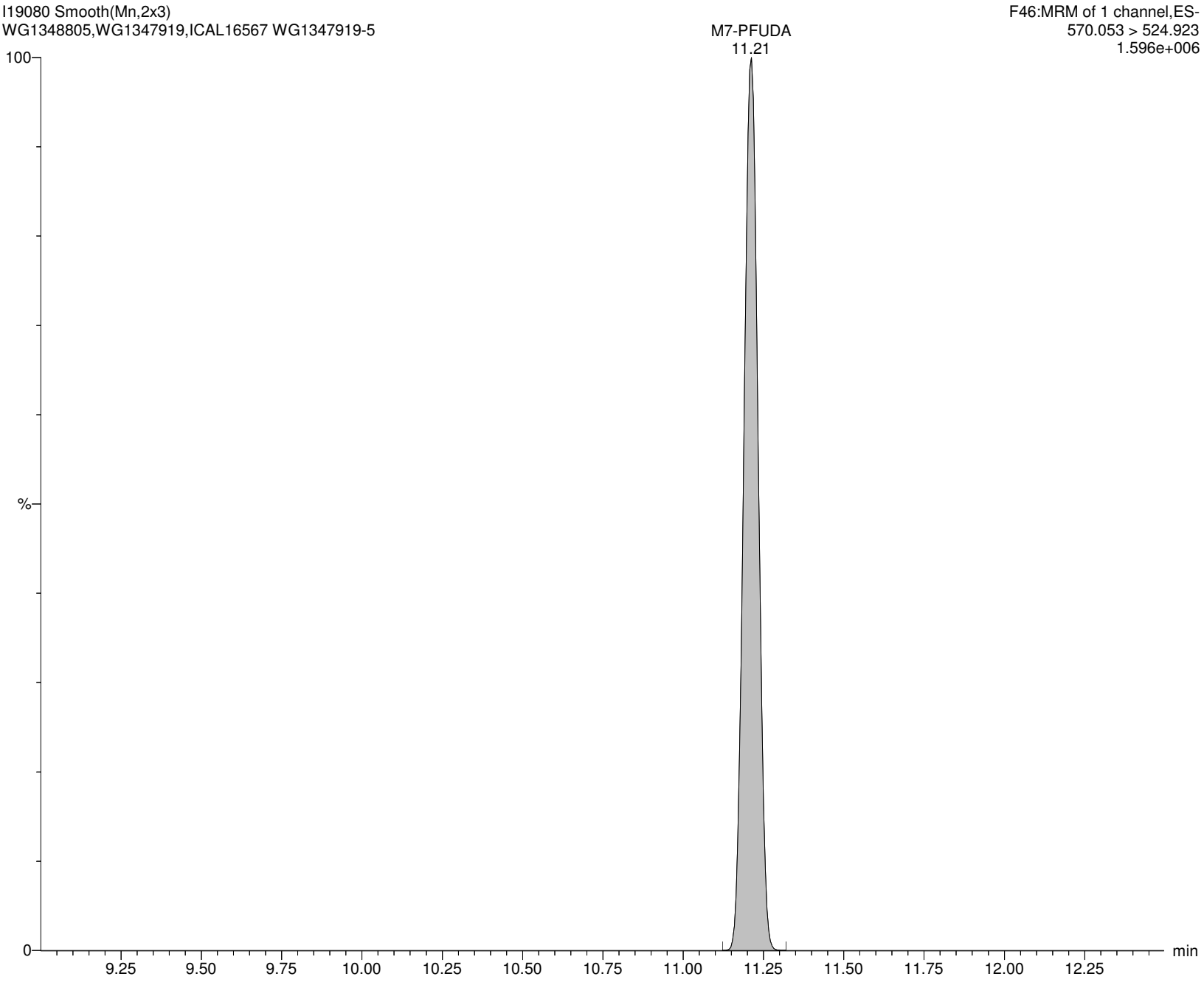
M7-PFUDA



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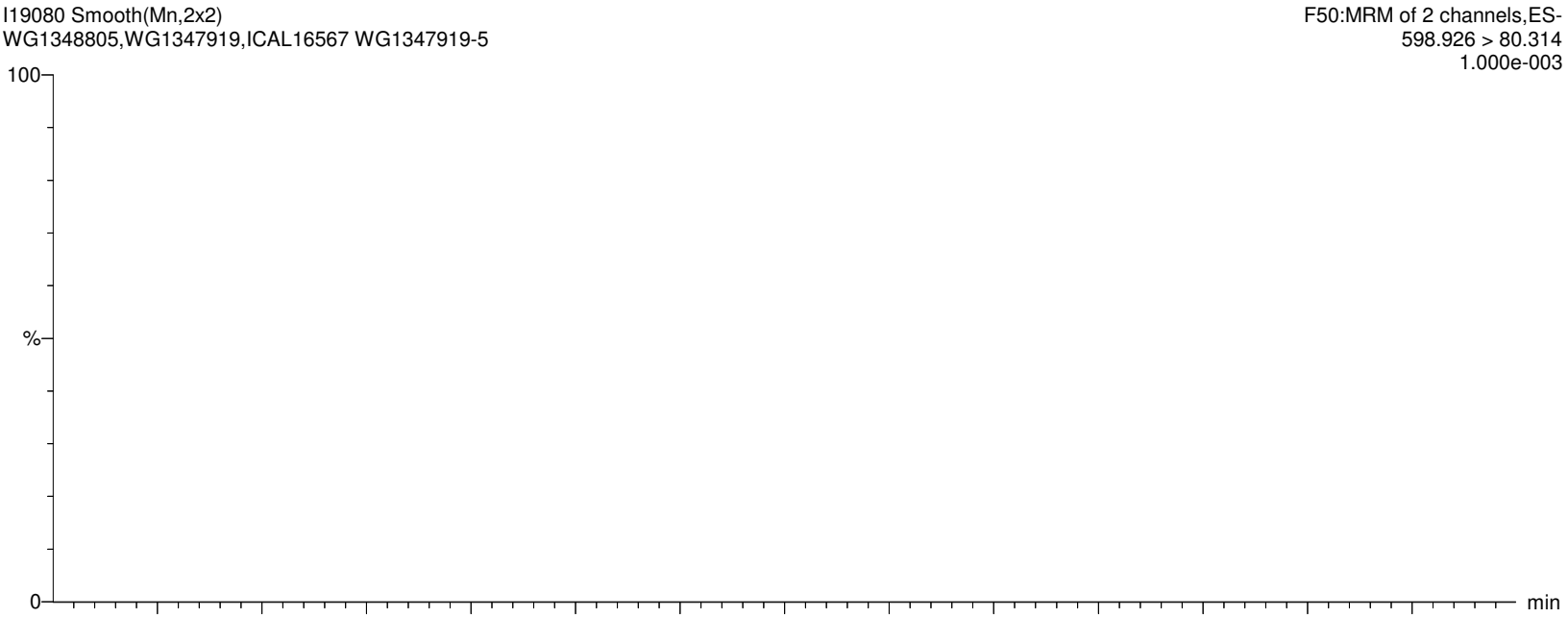

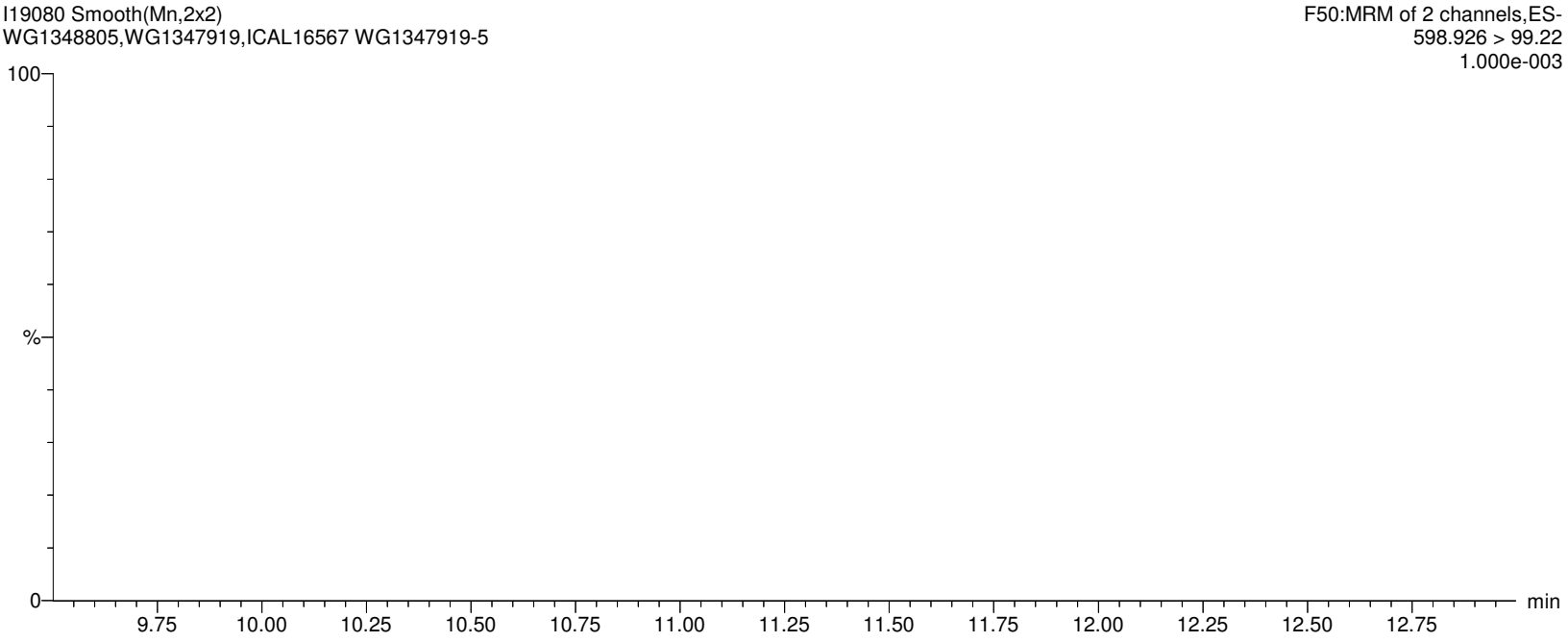

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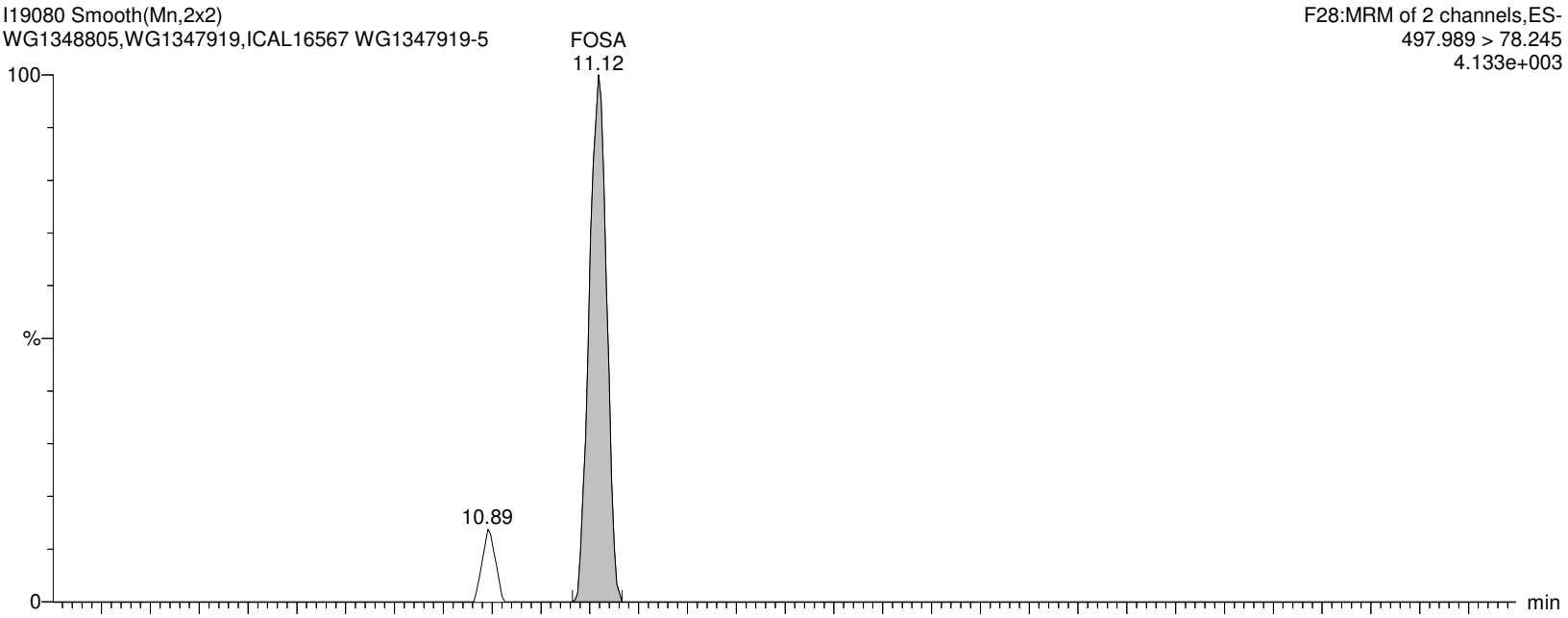
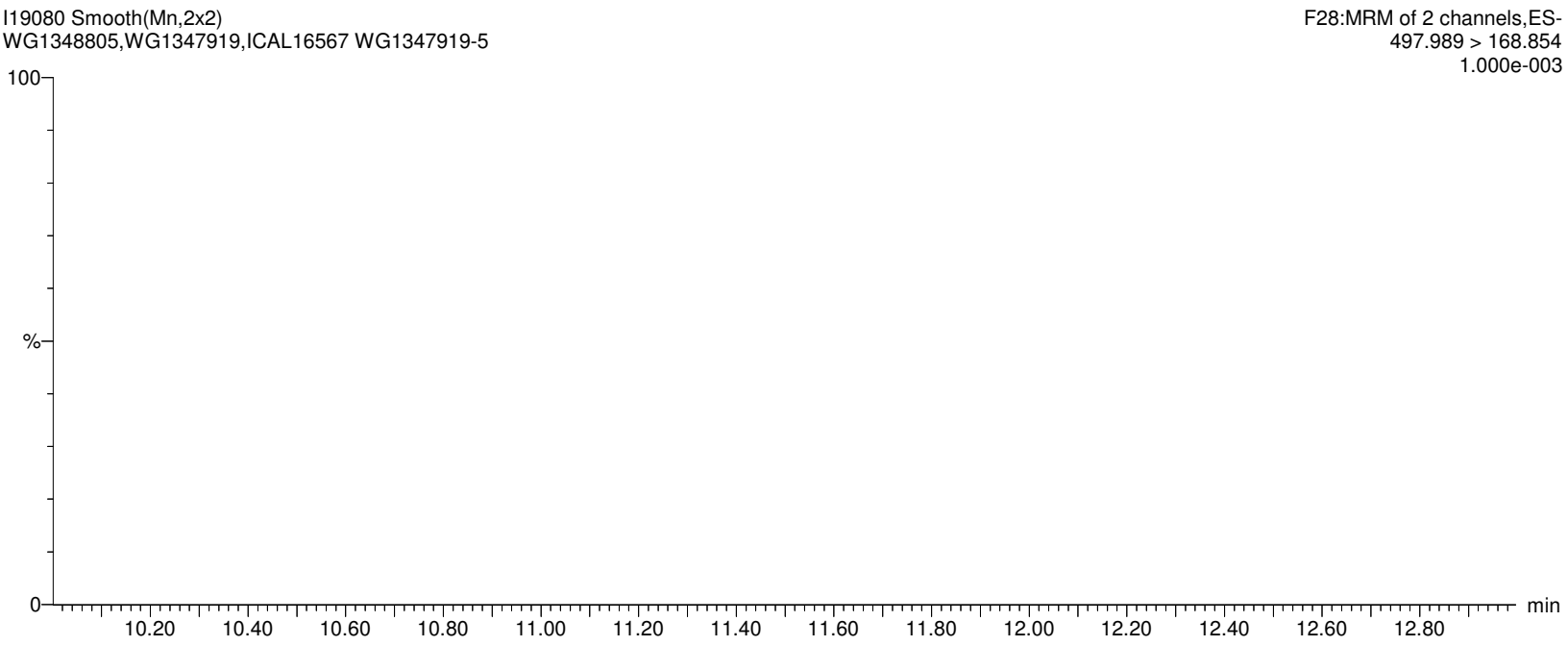
FOSA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:22:13 Eastern Daylight Time

Name: I19080
ID: WG1347919-5
Date: 09-Mar-2020
Time: 15:56:46
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,3
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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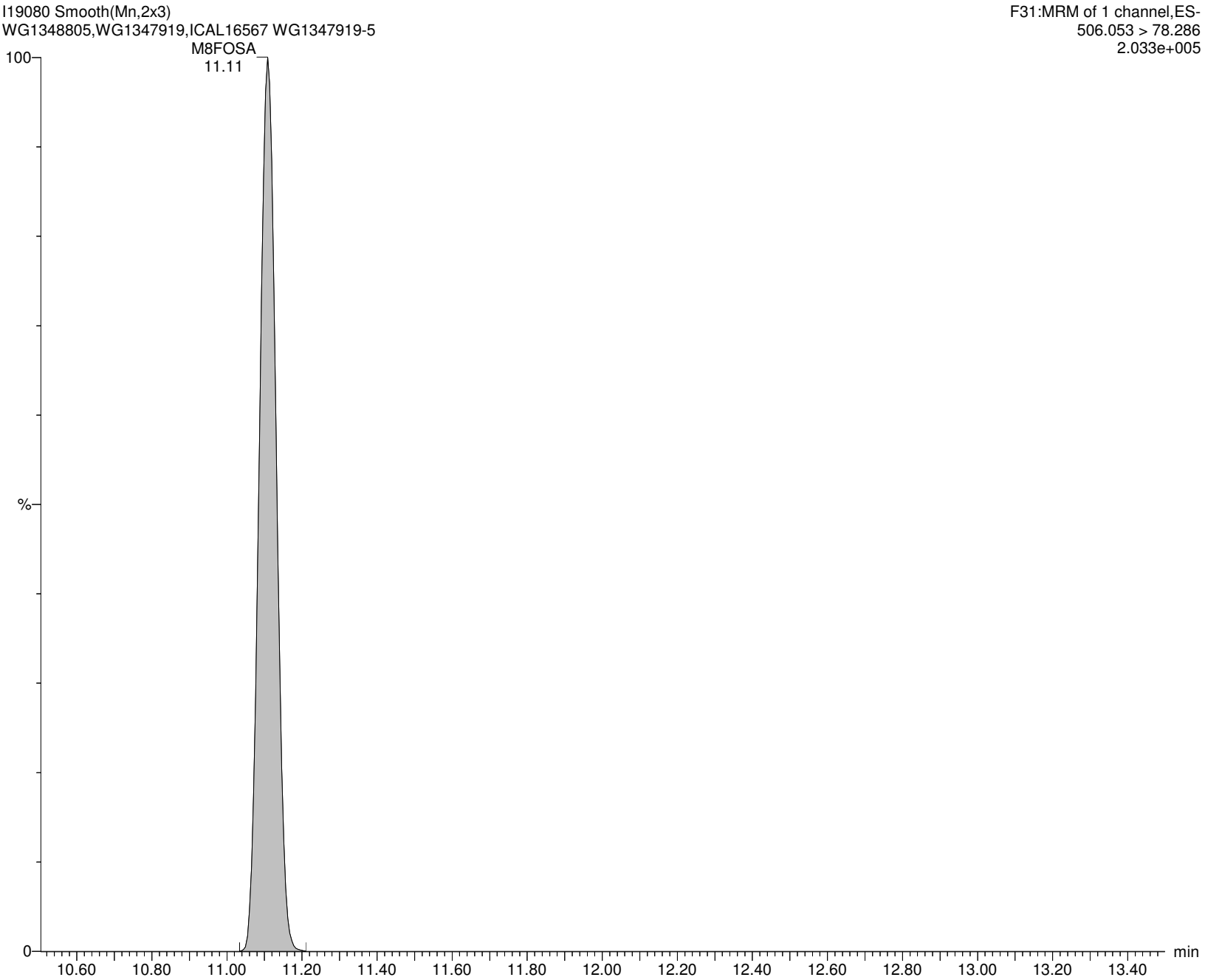

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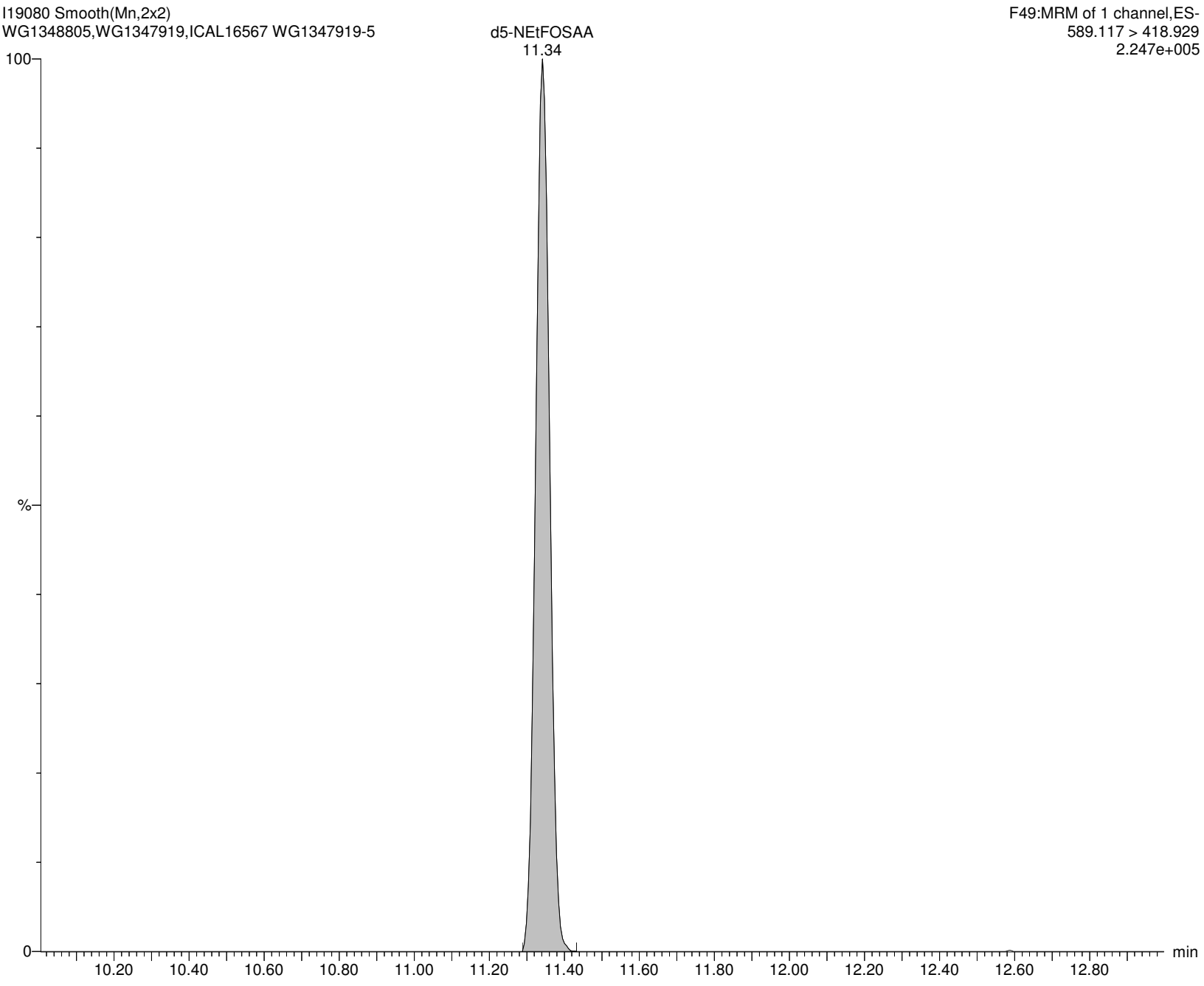

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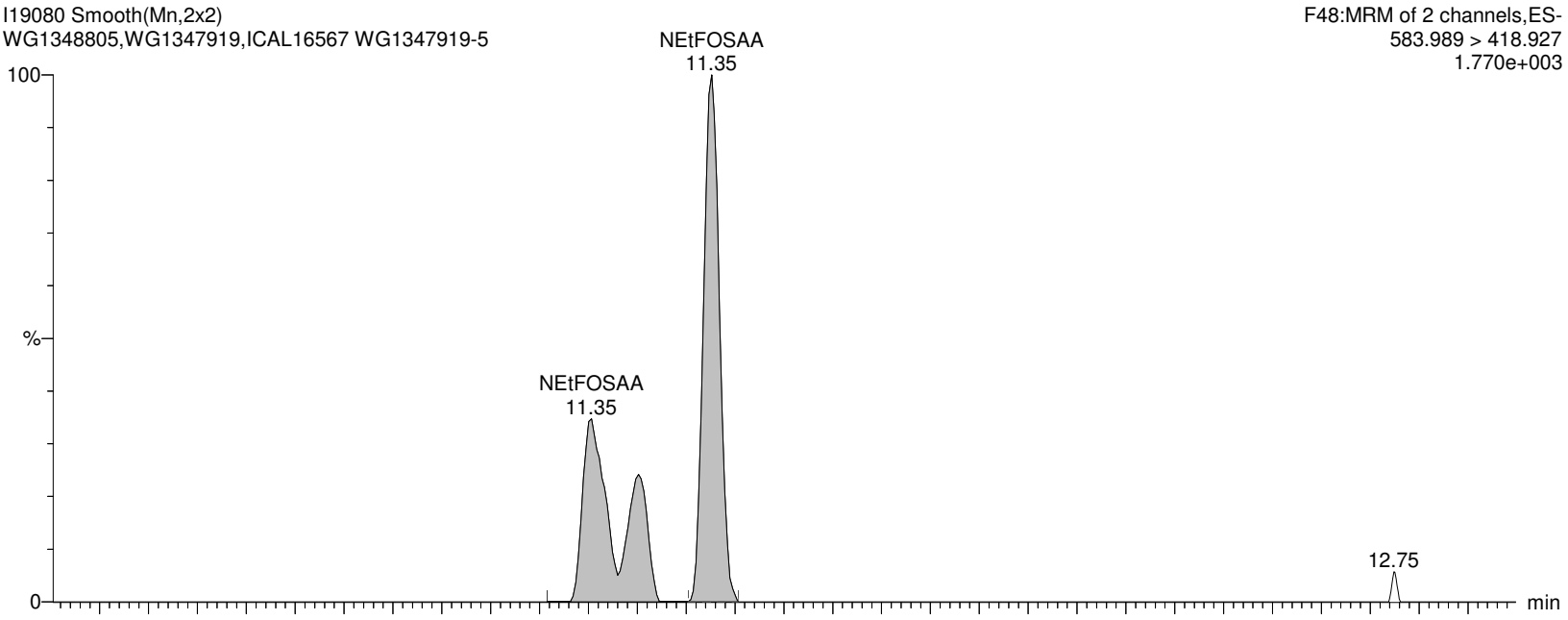

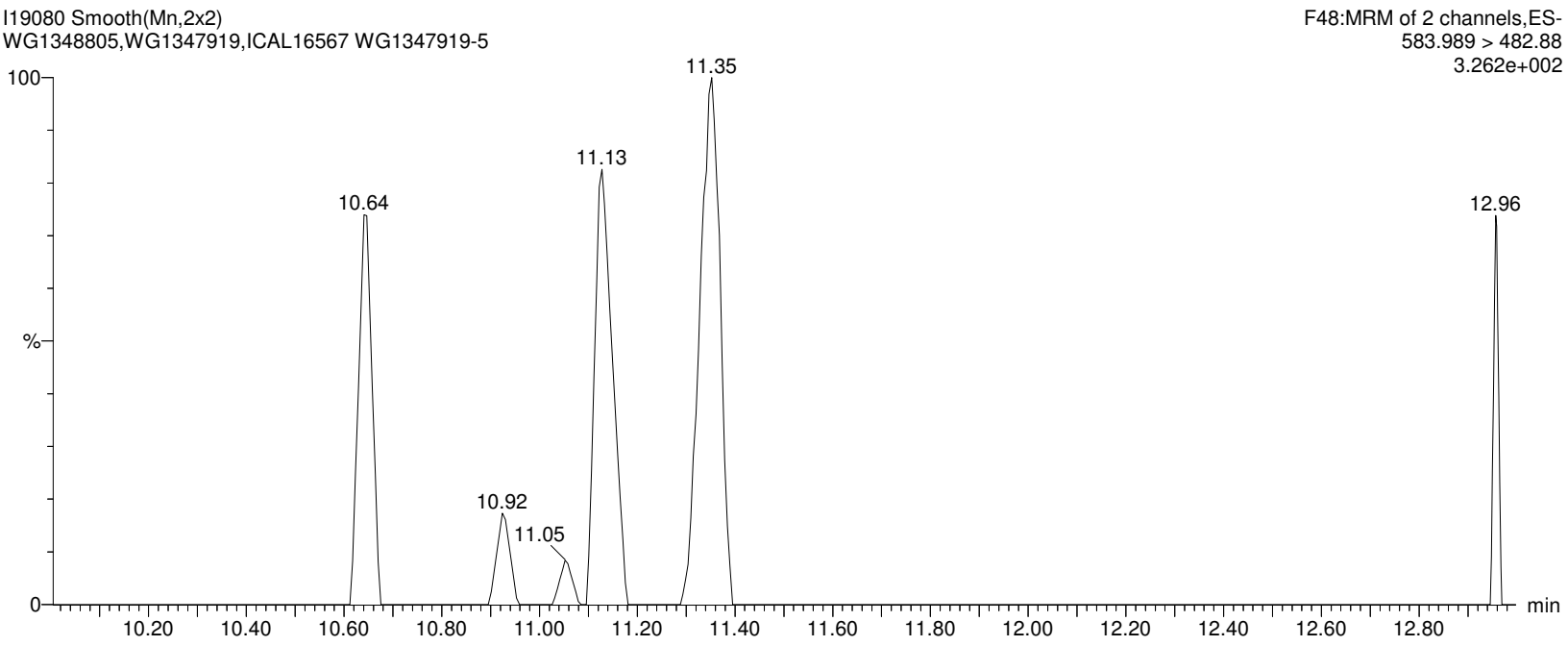

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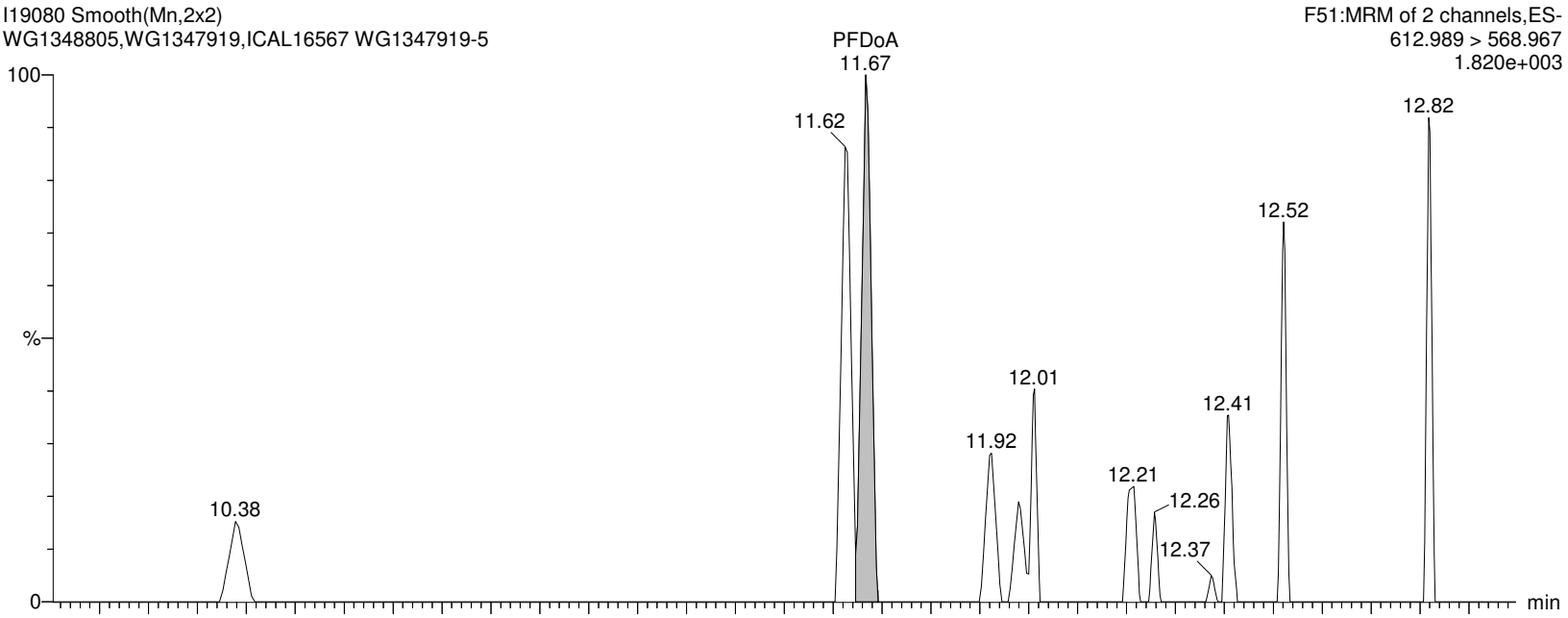

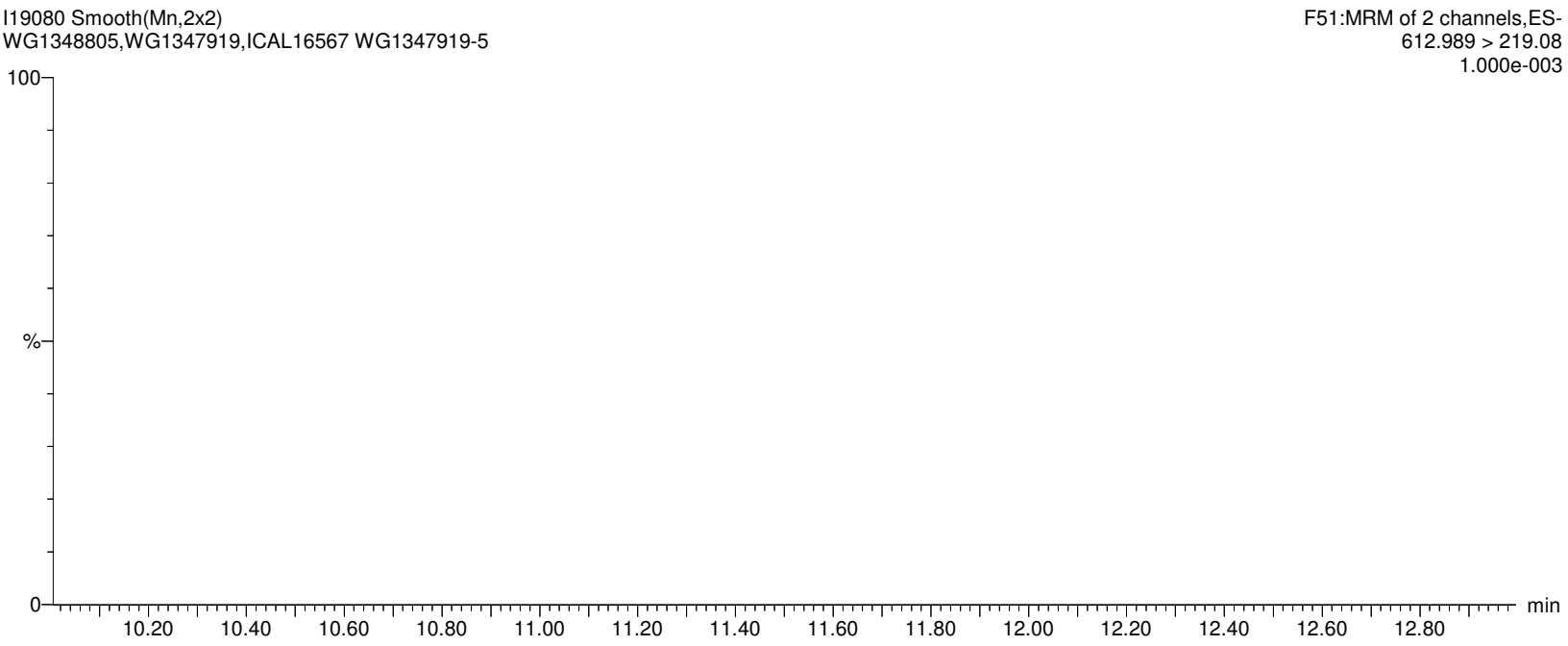

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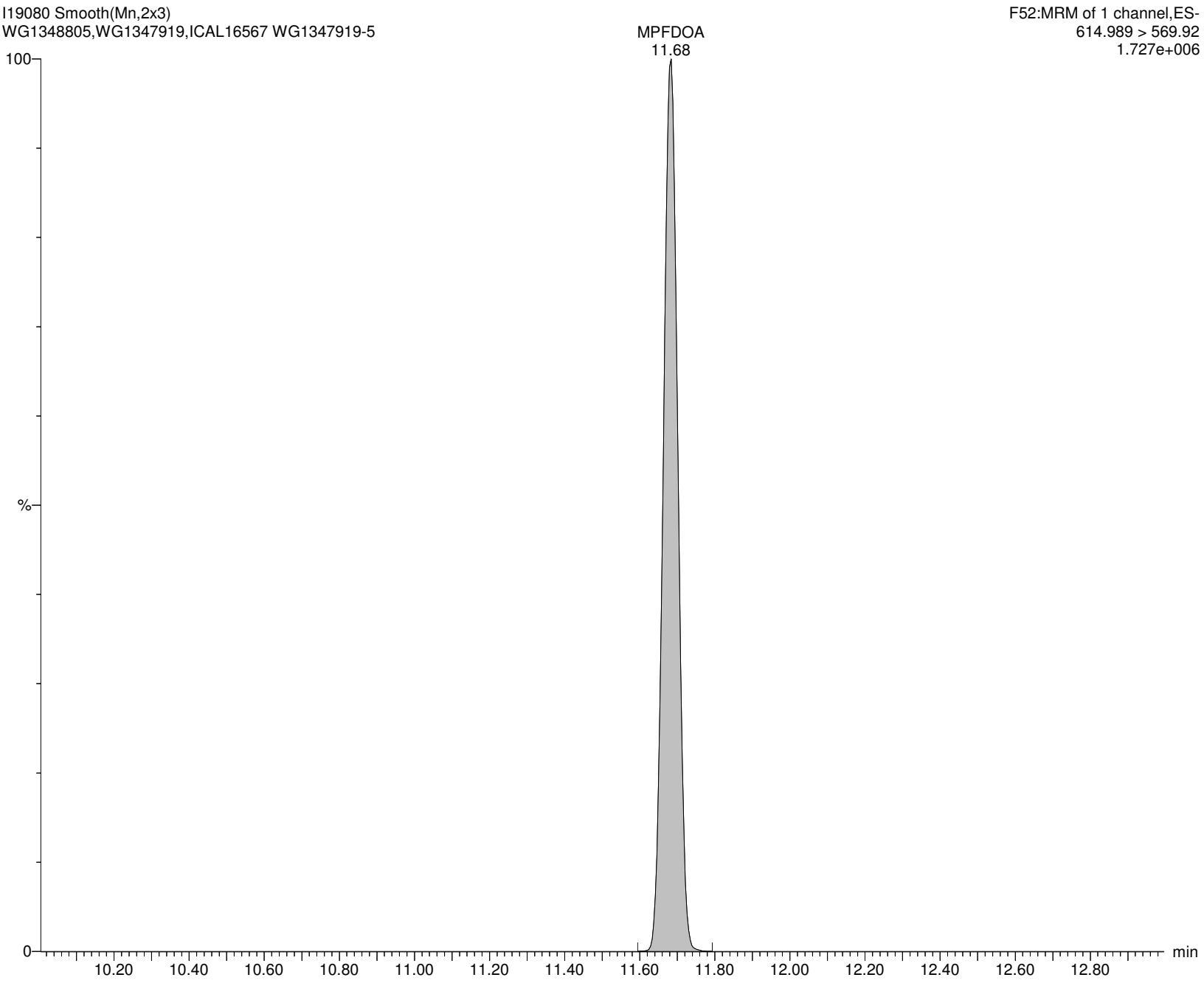

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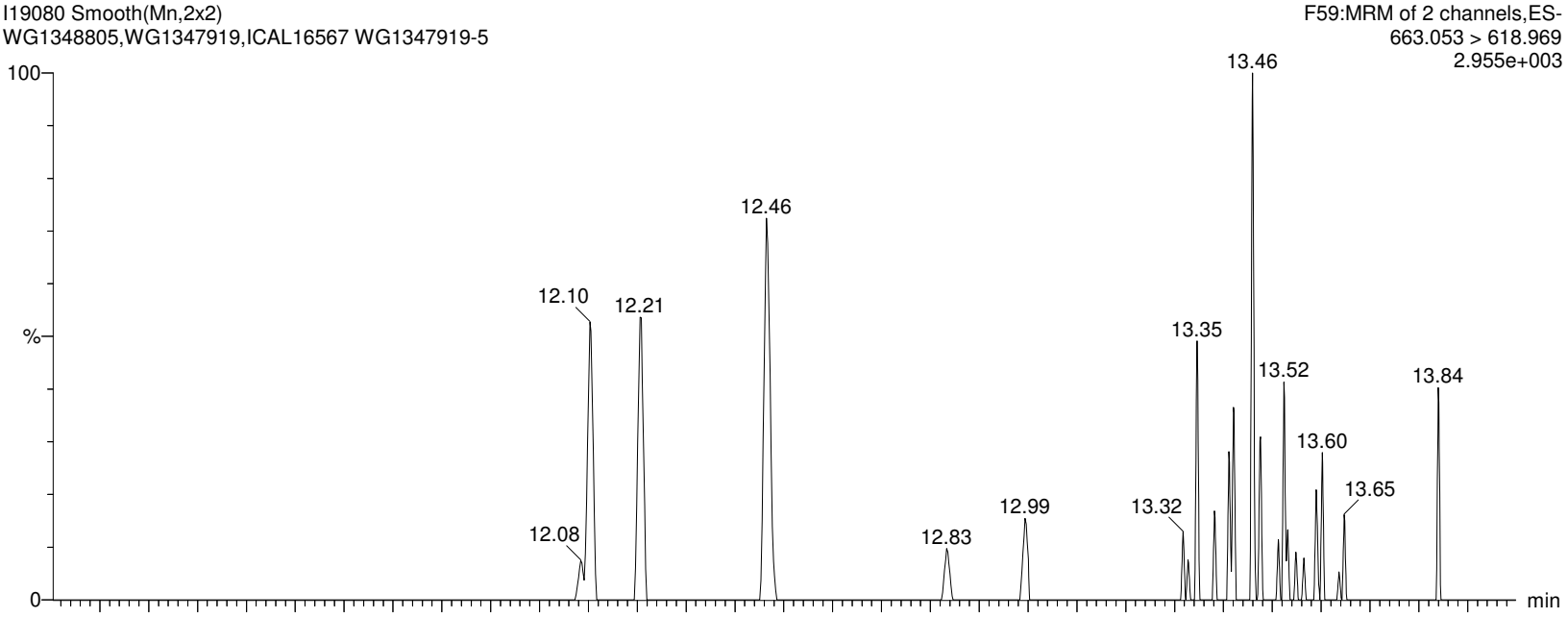

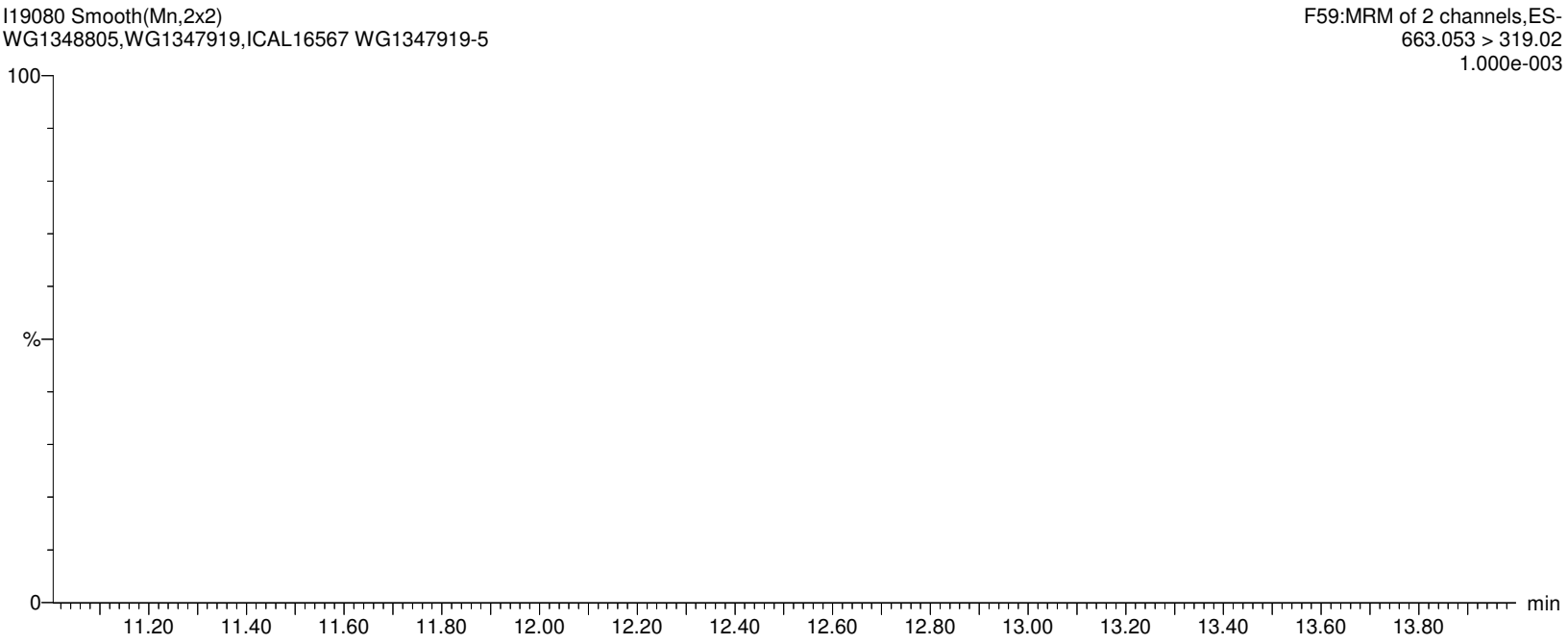

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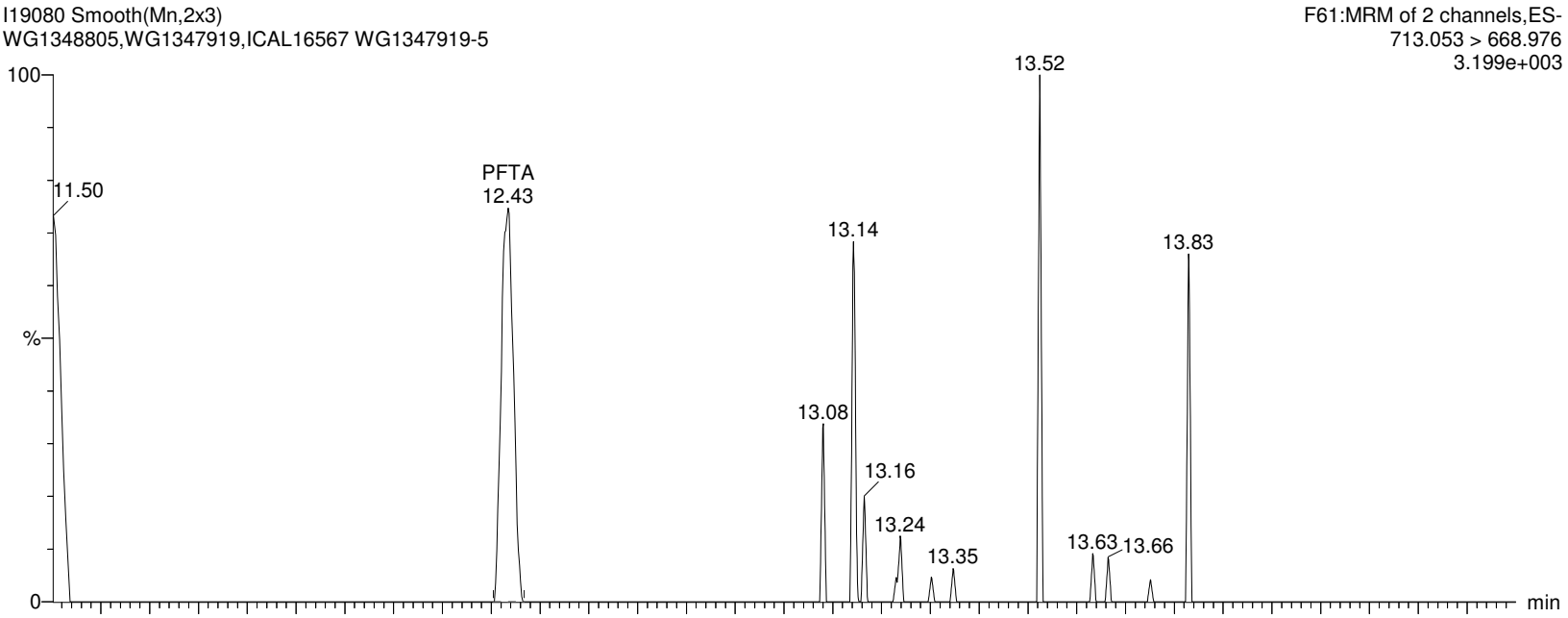

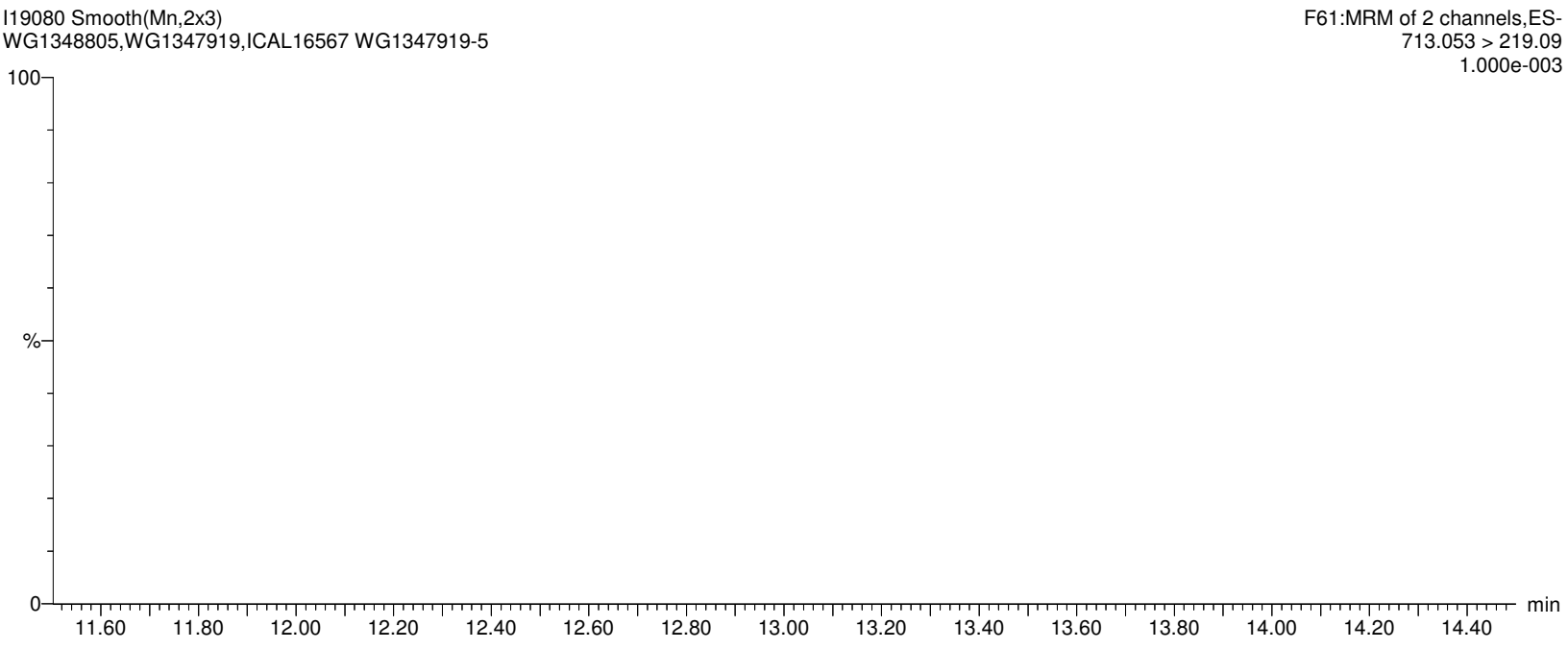

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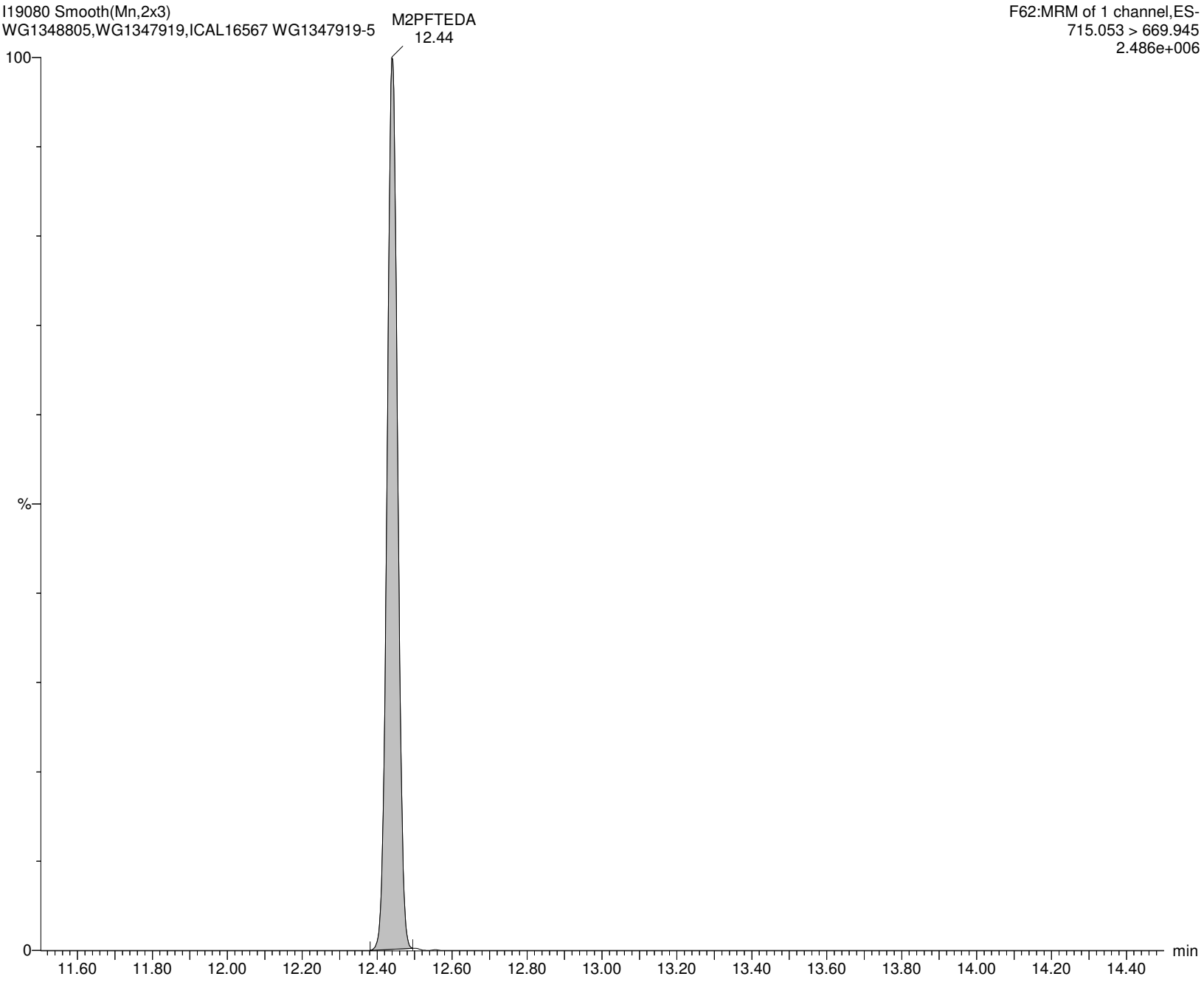

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Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:22:15 Eastern Daylight Time

Method: C:\MassLynx\Data\200309_537ISO.PRO\MethDB\537ISO_Q_200227 .mdb 28 Feb 2020 10:16:06
Calibration: C:\MassLynx\Data\200309_537ISO.PRO\CurveDB\200227_537ISO_ICAL.cdb 28 Feb 2020 10:12:40

ID: WG1347919-4
Name: I19083
Date: 09-Mar-2020
Time: 16:46:25
Description: WG1348805,WG1347919,ICAL16567
Instrument: XEVO-TQSmicro#QEA0276
User: LCMS01:JW
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MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.20	212.926 > 169.111	42317		13.929		na	
2	M3PFBA	INT STD	2.19	215.926 > 172.122	41359		10.518		na	105.2
3	MPFBA	INT STD	2.20	216.926 > 172.137	42012		8.865		na	88.6
4	PFPeA	2706-90-3	5.16	262.926 > 219.002	45599	M4	13.062		na	
5	M5PFPEA	INT STD	5.16	267.989 > 223.081	50226		7.988		na	79.9
6	PFBS	375-73-5	5.82	298.926 > 79.923	9313		10.075	1.99	NO	
7	M3PFBS	INT STD	5.82	301.989 > 80.254	10248		7.641		na	76.4
8	4:2FTS	757124-72-4	7.00	326.926 > 306.957	9756		10.564	1.88	NO	
9	M2-4:2FTS	INT STD	7.00	329.117 > 309.079	11600		16.601		na	166.0
10	PFHxA	307-24-4	7.08	312.989 > 269.028	65258		13.426	18.14	NO	
11	M5PFHxA	INT STD	7.08	317.989 > 273.045	58692		6.579		na	65.8
12	PFPeS	2706-91-4	7.39	348.926 > 80.251	9483		10.150	2.29	NO	
13	PFHpA	375-85-9	8.35	362.926 > 319.014	87942		11.955	5.51	NO	
14	M4PFHpA	INT STD	8.35	366.926 > 321.979	80384		7.767		na	77.7
15	br-PFHxS	355-46-4	8.27	398.904 > 79.915	1410		1.929		YES	
16	L-PFHxS	355-46-4	8.51	398.904 > 79.915	6990		9.619	2.07	NO	
17	PFHxS	355-46-4		398.904 > 79.915	8401		11.548		na	
18	M3PFHxS	INT STD	8.51	401.926 > 80.317	9823		8.175		na	81.7
19	br-PFOA	335-67-1	9.07	412.989 > 368.9	9387	M5	1.243	2.64	NO	
20	L-PFOA	335-67-1	9.29	412.989 > 368.9	132616		17.597	8.11	NO	
21	M2PFOA	INT STD	9.29	415.032 > 369.968	108960		12.951		na	129.5
22	PFOA	335-67-1		412.989 > 368.9	142002		18.840		na	
23	M8PFOA	INT STD	9.29	420.989 > 375.979	87811		8.451		na	84.5
24	6:2FTS	27619-97-2	9.25	426.989 > 406.921	2382		10.170	0.68	NO	
25	M2-6:2FTS	INT STD	9.25	428.989 > 408.917	9818		22.580		na	225.8
26	PFHpS	375-92-8	9.38	448.926 > 80.257	6442		12.215	1.02	NO	
27	PFNA	375-95-1	10.04	462.989 > 418.931	77713		10.959	4.04	NO	
28	M9PFNA	INT STD	10.04	472.053 > 426.947	95303		9.382		na	93.8
29	br-PFOS	1763-23-1	9.84	498.968 > 79.918	6155	M5	7.419	4.17	NO	
30	L-PFOS	1763-23-1	10.09	498.968 > 79.918	12111		21.175	1.35	NO	
31	PFOS	1763-23-1		498.968 > 79.918	18266		28.594		na	
32	M4PFOS	INT STD	10.09	503.032 > 80.306	10455		12.308		na	123.1
33	M8PFOS	INT STD	10.09	507.053 > 80.294	10476		8.628		na	86.3
34	PFDA	335-76-2	10.67	513.053 > 468.906	69919		10.401	5.51	NO	
35	M2PFDA	INT STD	10.67	515.053 > 469.934	100653		15.216		na	152.2
36	M6PFDA	INT STD	10.66	519.053 > 473.931	87766		7.925		na	79.3
37	8:2FTS	39108-34-4	10.66	527.032 > 507.079	2832		12.218	1.83	NO	
38	M2-8:2FTS	INT STD	10.66	529.053 > 508.945	3560		13.541		na	135.4
39	PFNS	68259-12-1	10.69	548.989 > 80.249	7632		10.769	1.65	NO	

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	11.04	573.096 > 418.987	13268		9.044		na	90.4
41	NMeFOSAA	2355-31-9	11.05	570.053 > 418.917	8407	m5	10.603	2.59	NO	
42	PFUnA	2058-94-8	11.20	562.989 > 518.903	70622		9.381	7.62	NO	
43	M7-PFUDA	INT STD	11.20	570.053 > 524.923	81088		8.333		na	83.3
44	PFDS	335-77-3	11.21	598.926 > 80.314	7816		11.326	2.17	NO	
45	FOSA	754-91-6	11.10	497.989 > 78.245	13618		10.781		YES	
46	M8FOSA	INT STD	11.10	506.053 > 78.286	15330		3.454		na	34.5
47	d5-NEtFOSAA	INT STD	11.34	589.117 > 418.929	8789		8.216		na	82.2
48	NEtFOSAA	2991-50-6	11.34	583.989 > 418.927	8026	m5	10.705	3.24	NO	
49	PFDoA	307-55-1	11.68	612.989 > 568.967	73489		10.656	13.24	NO	
50	MPFDOA	INT STD	11.68	614.989 > 569.92	75962		7.261		na	72.6
51	PFTrDA	72629-94-8	12.09	663.053 > 618.969	77089		11.214	10.61	NO	
52	PFTA	376-06-7	12.44	713.053 > 668.976	63479		11.168	9.44	NO	
53	M2PFTEDA	INT STD	12.44	715.053 > 669.945	76715		6.506		na	65.1

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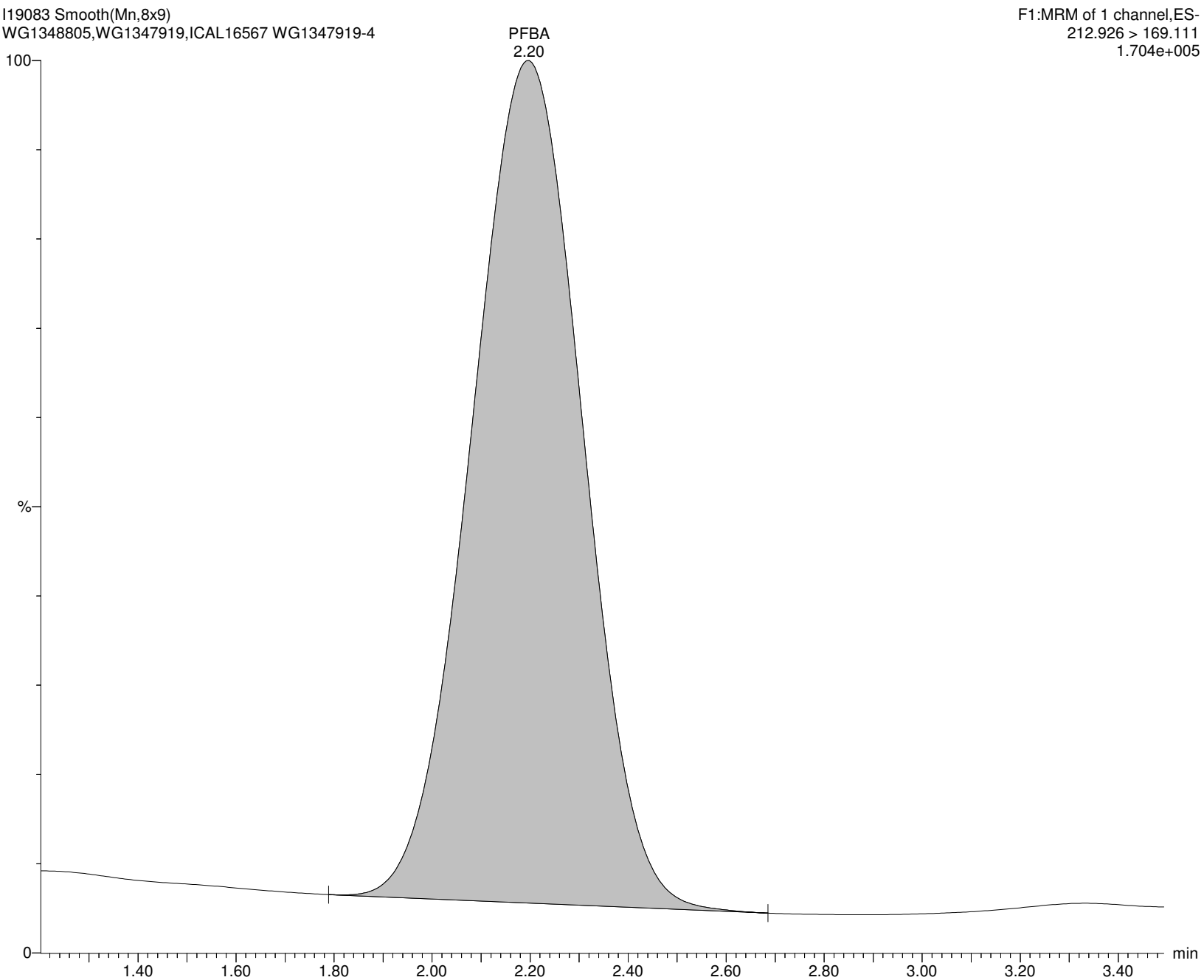

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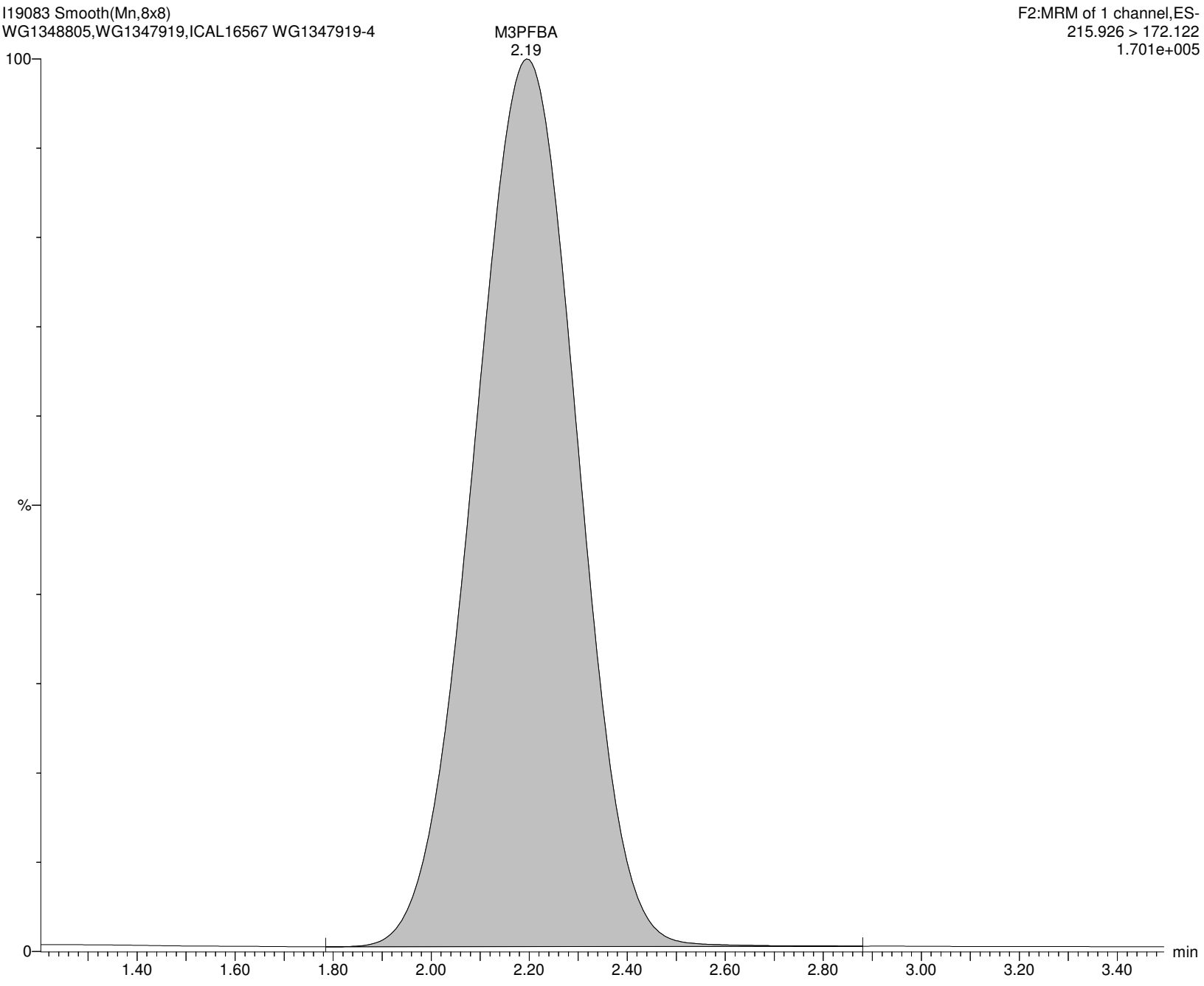

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
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Name: I19083
ID: WG1347919-4
Date: 09-Mar-2020
Time: 16:46:25
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
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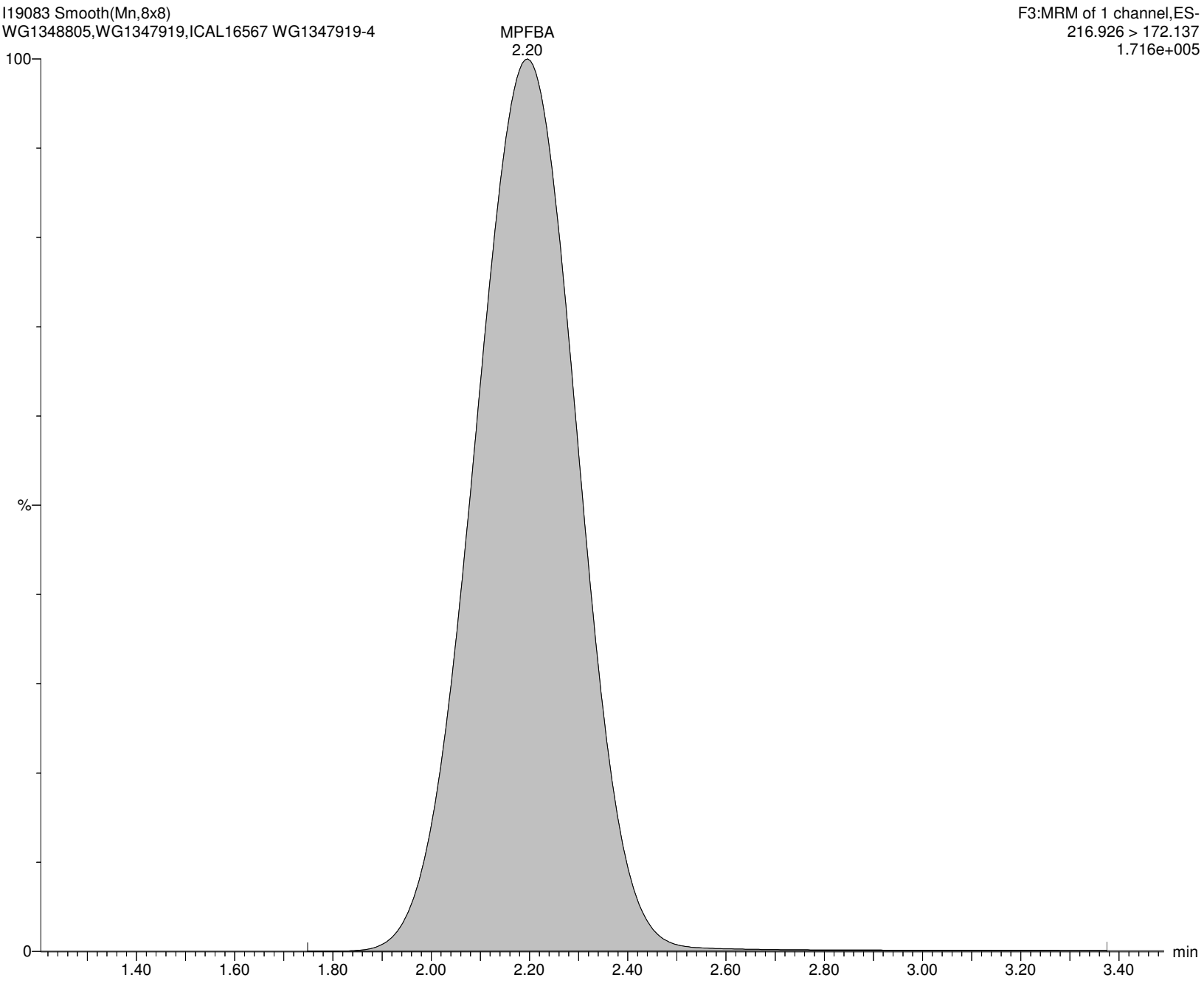

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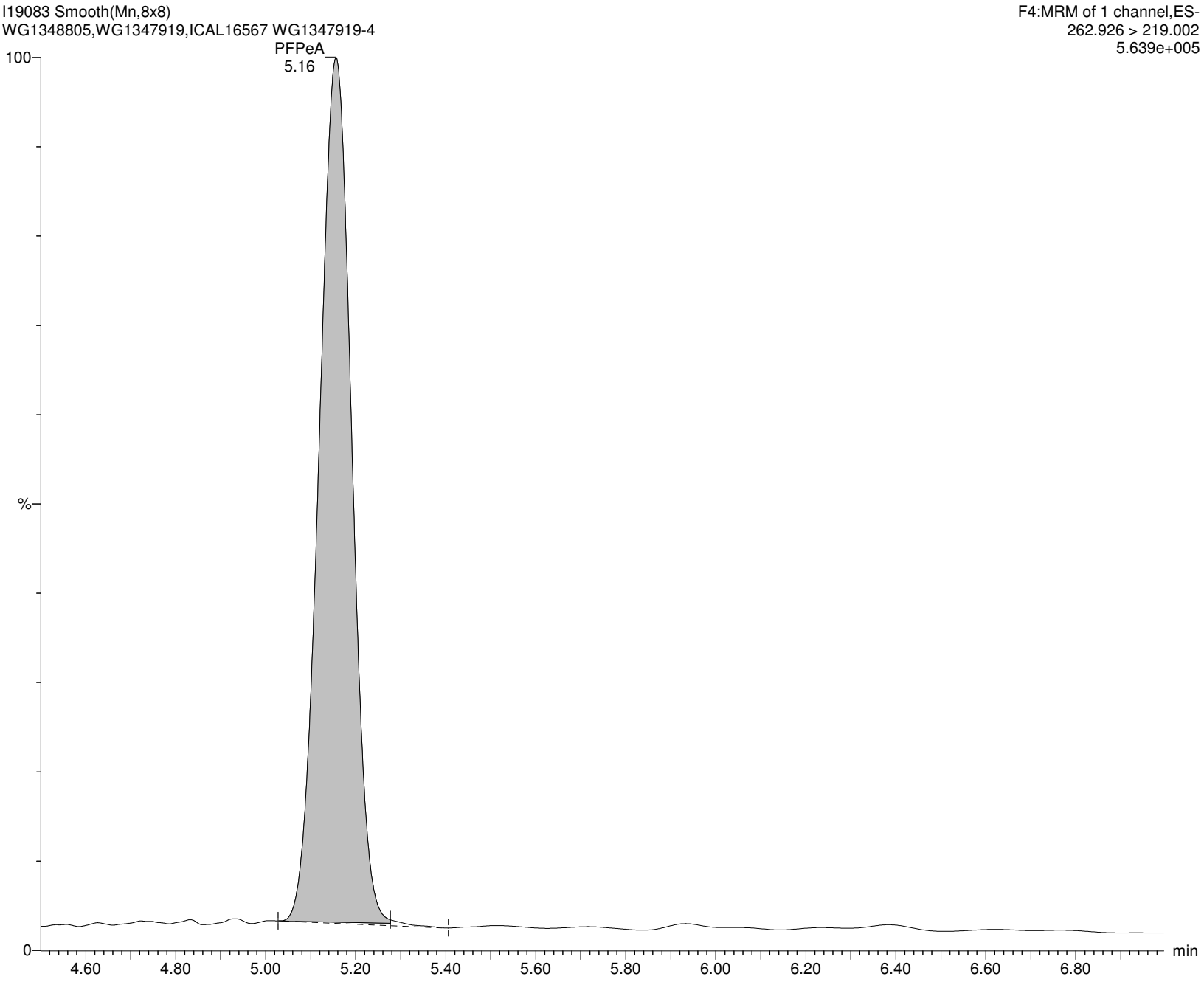

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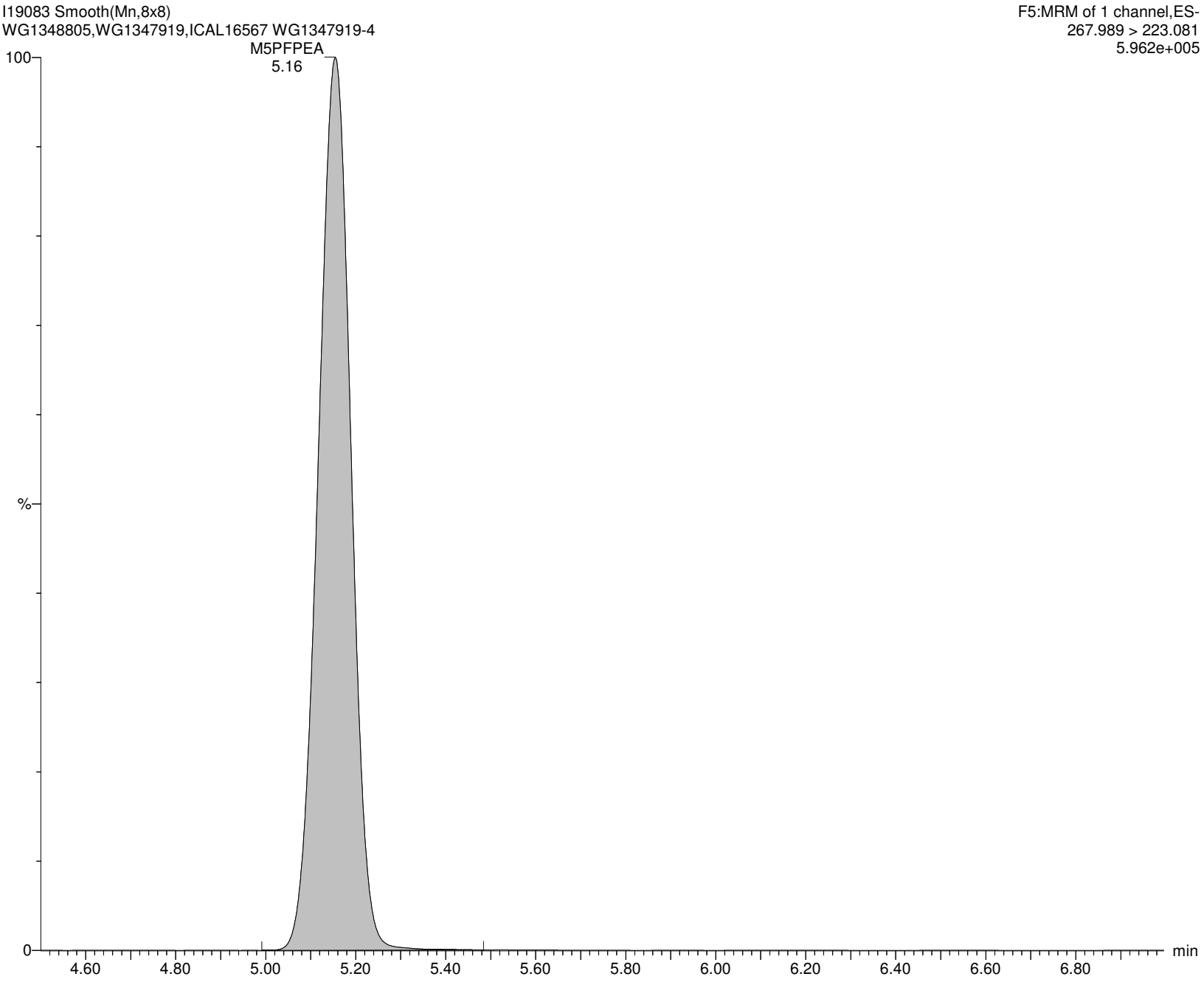

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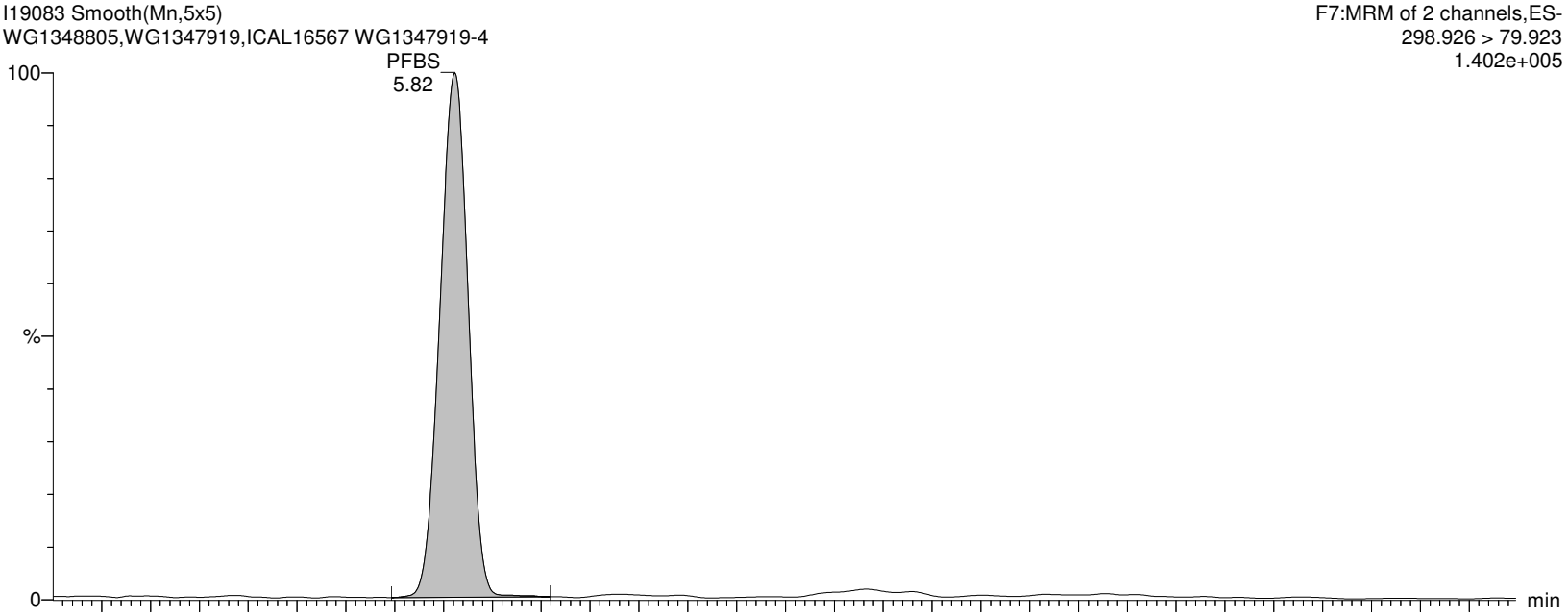

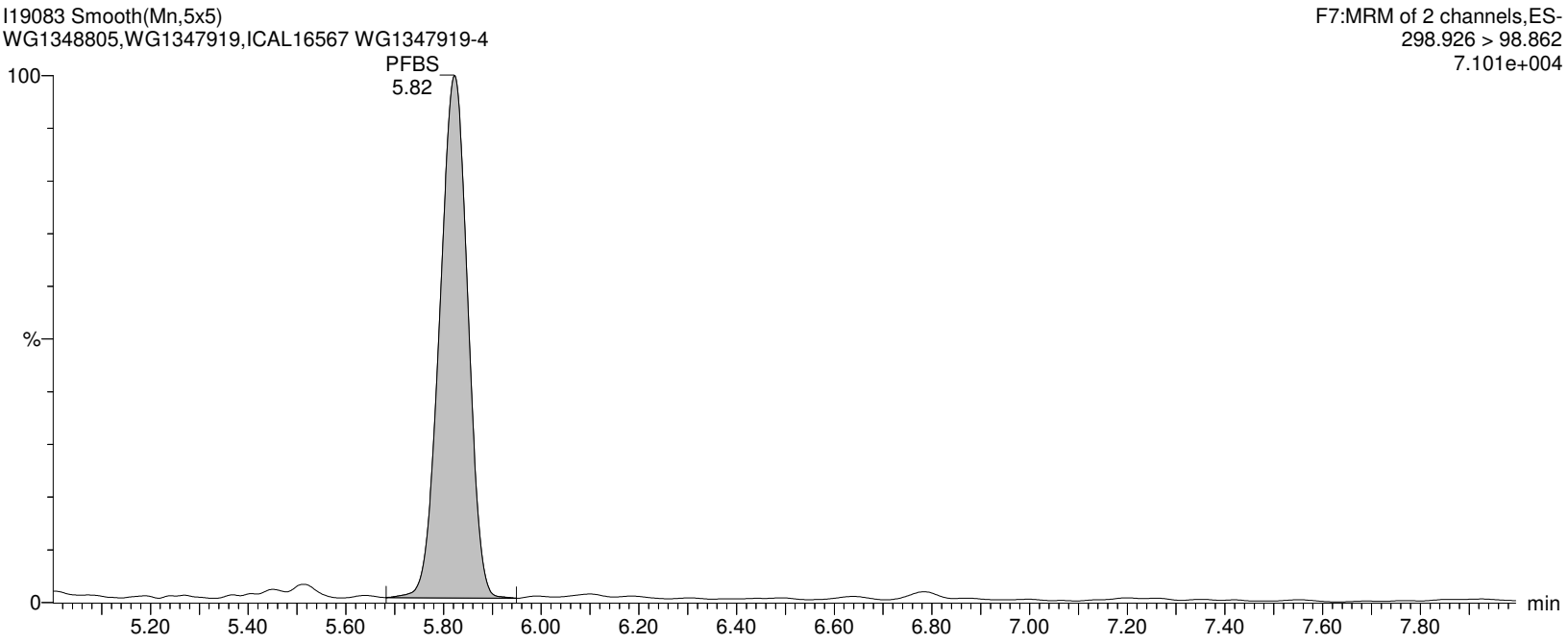

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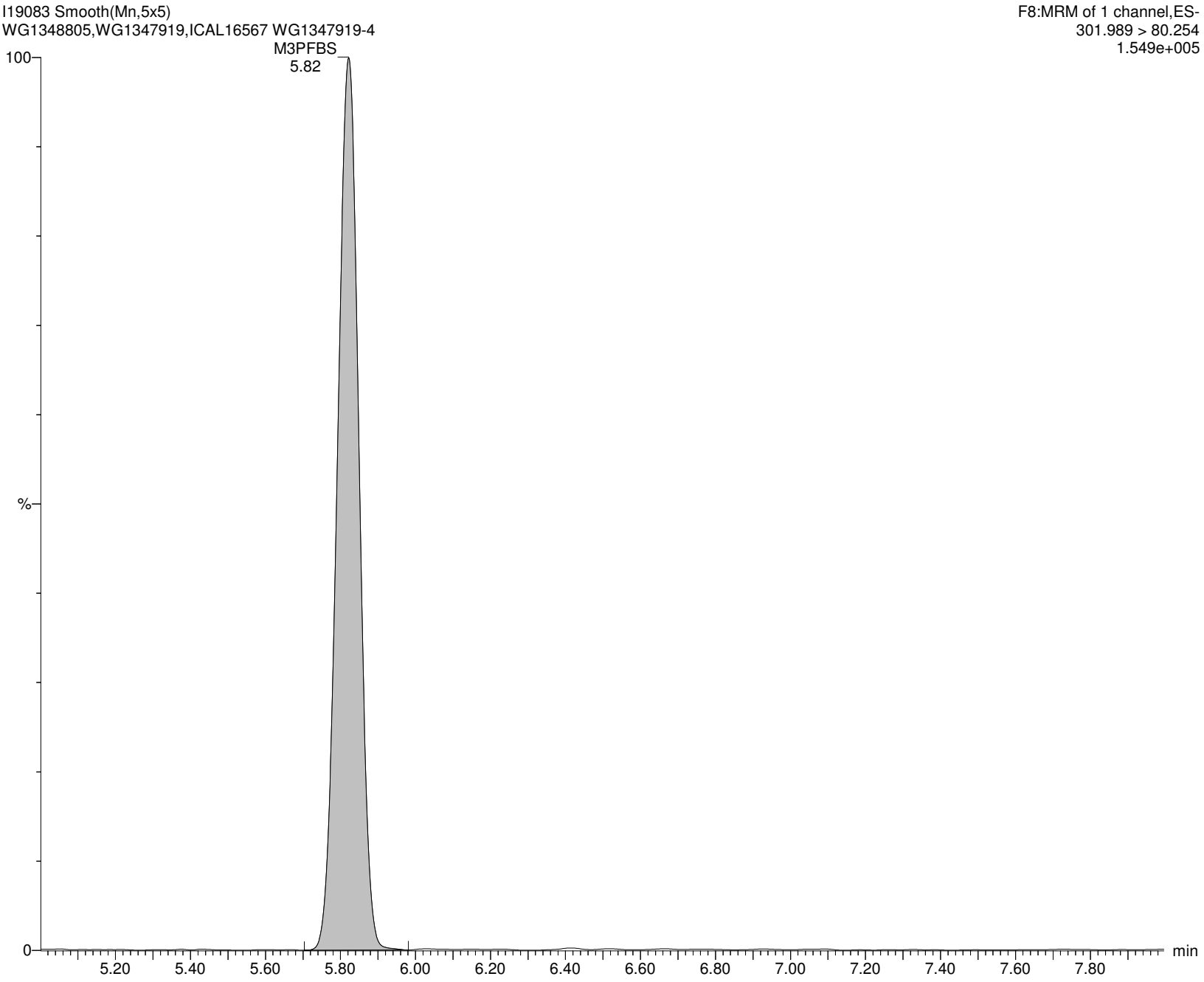

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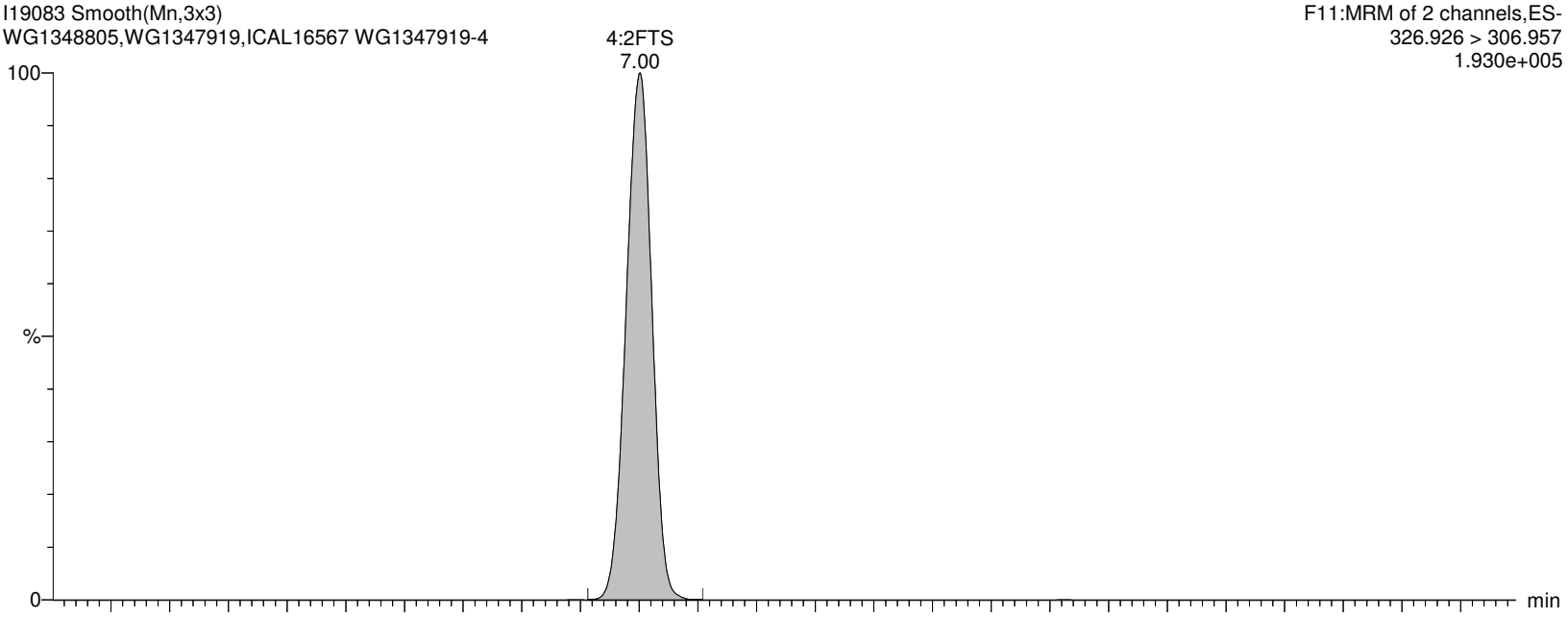
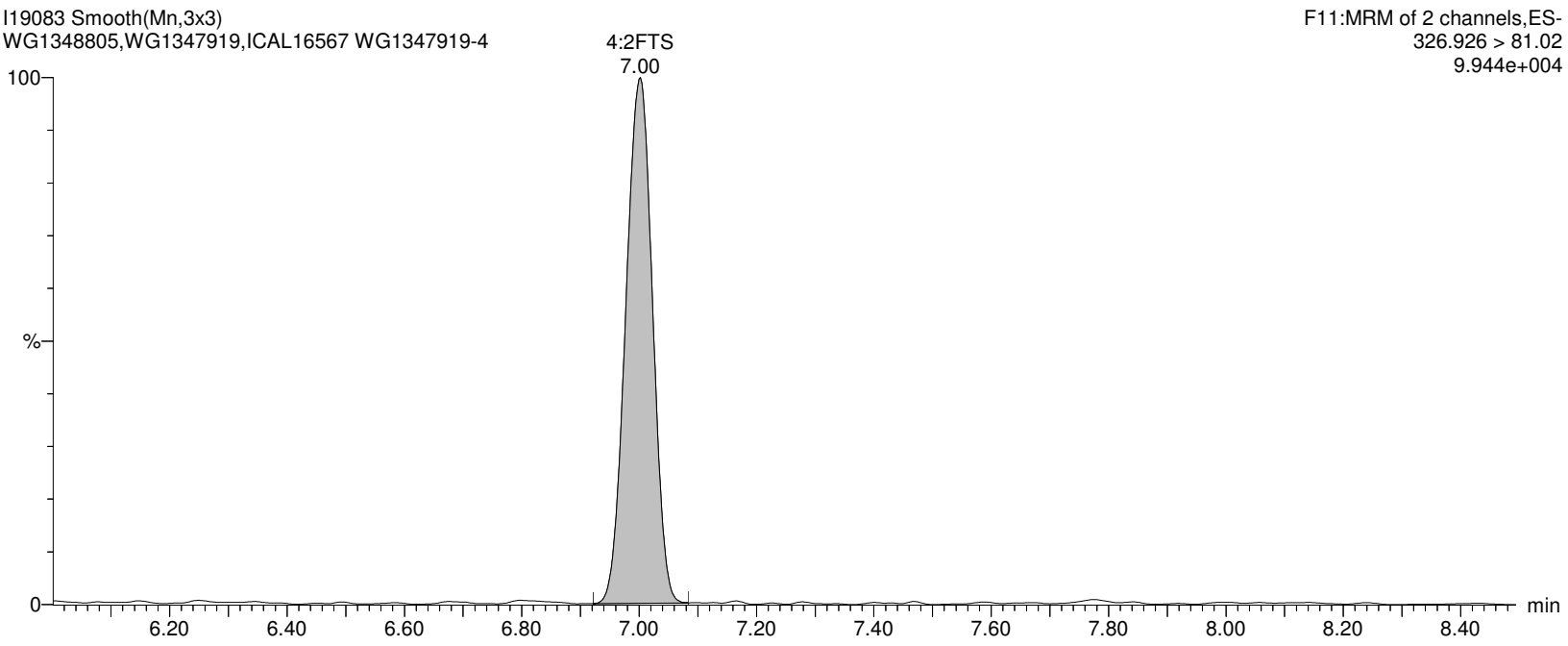
4:2FTS





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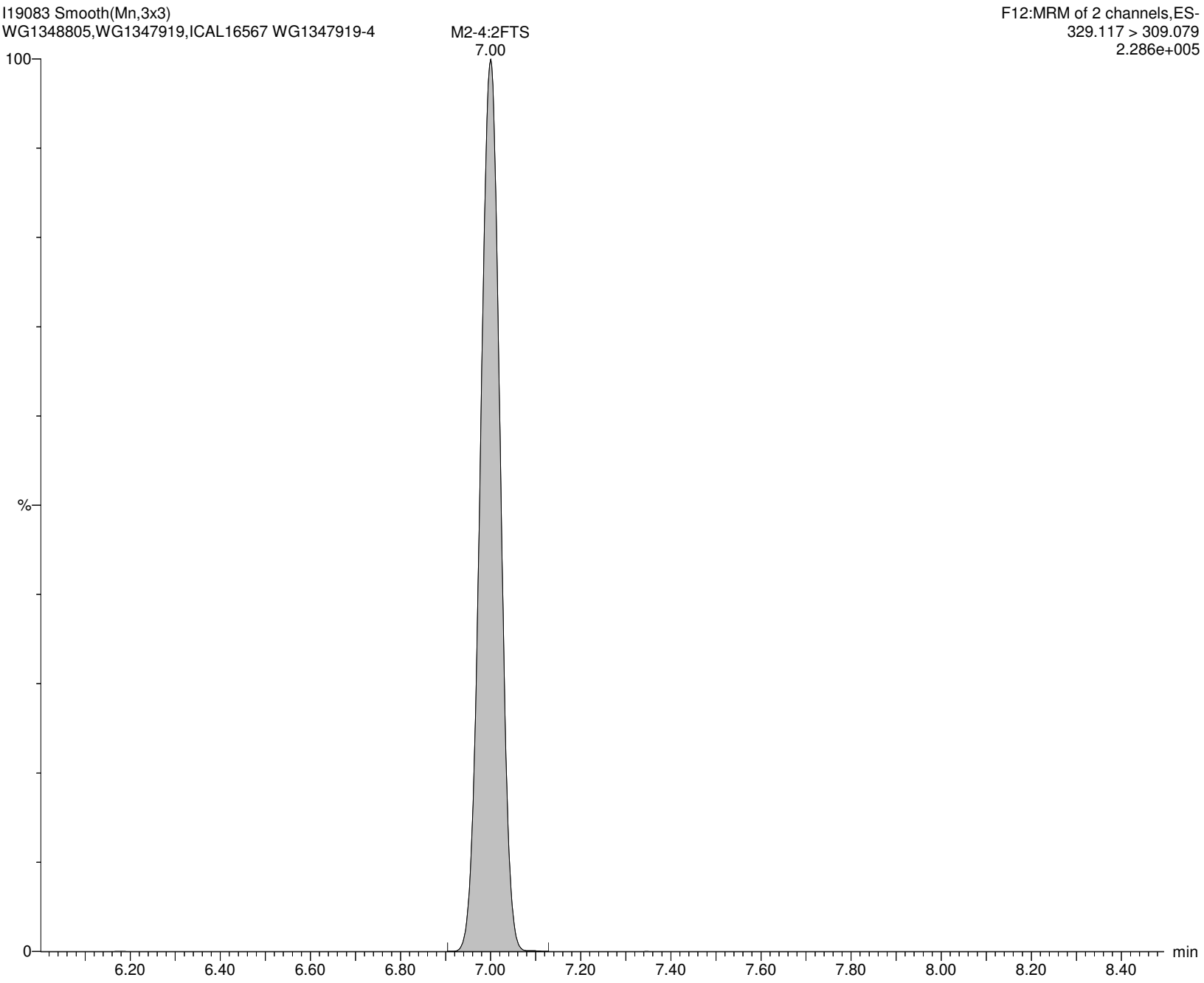

all concentration units in (ng/mL)

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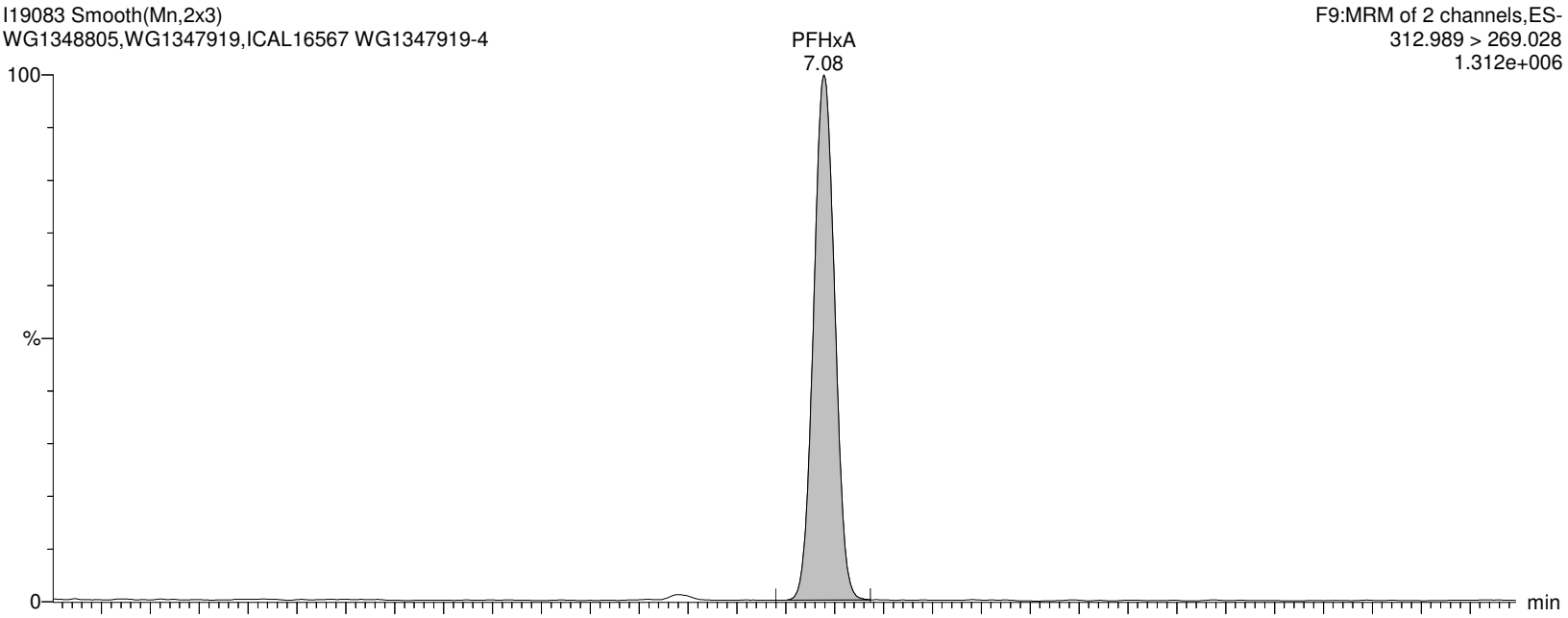

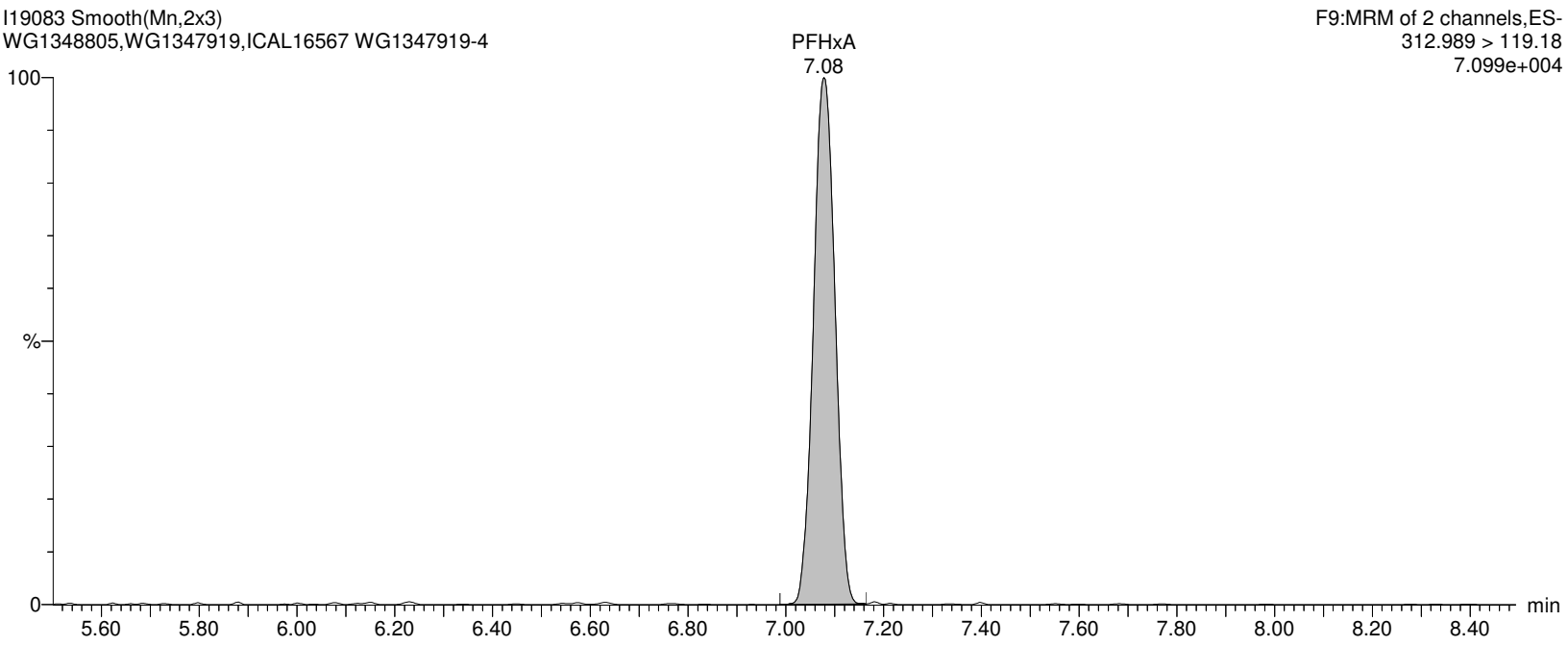

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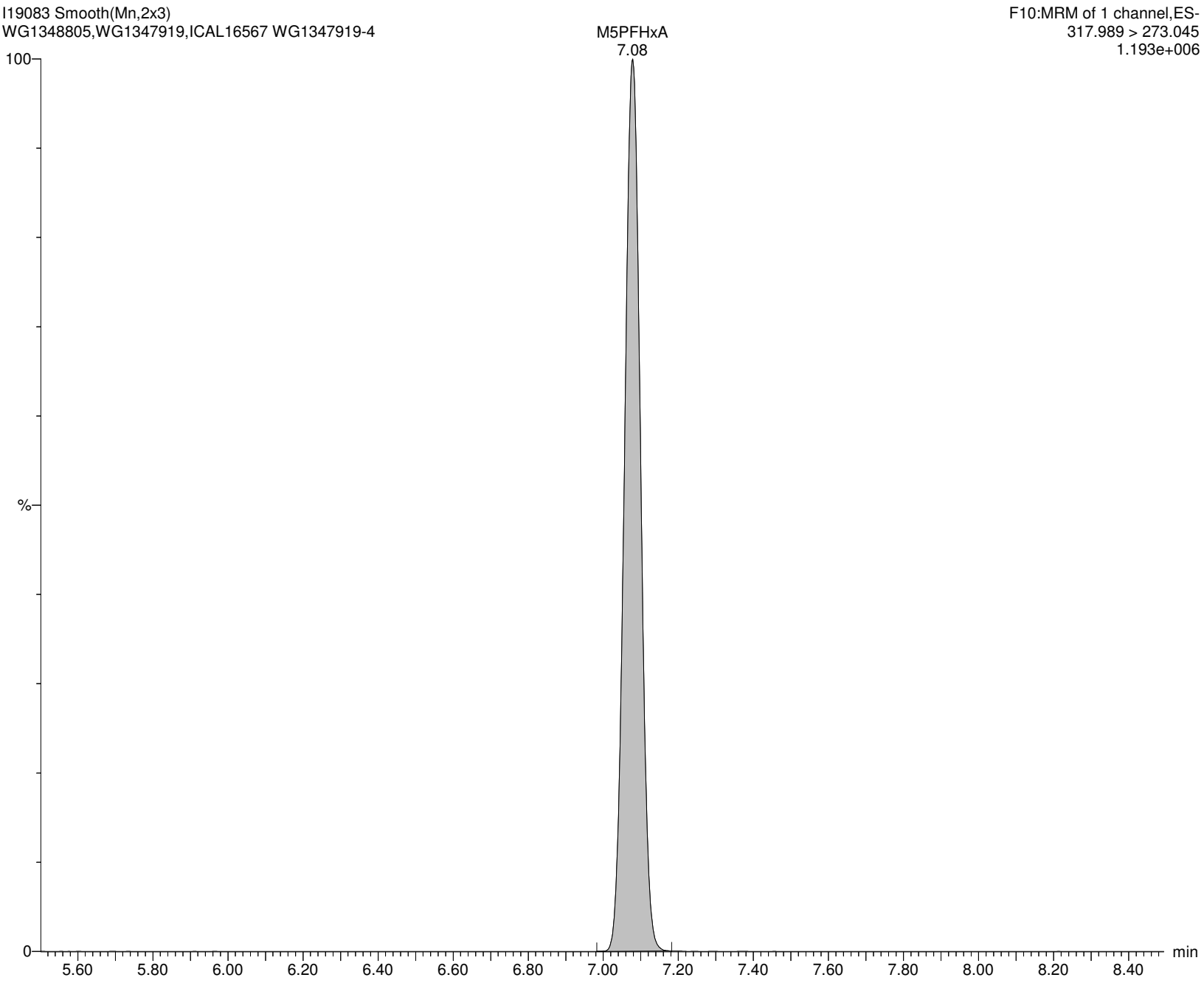

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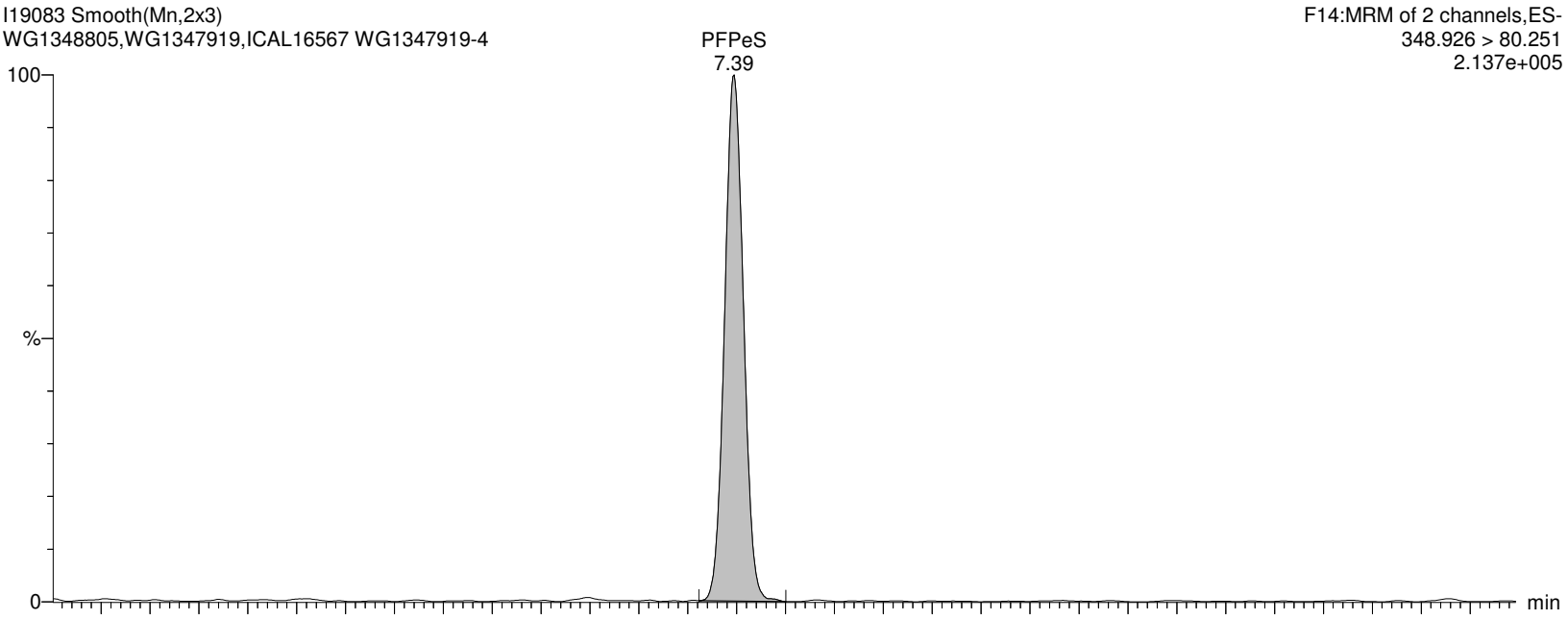

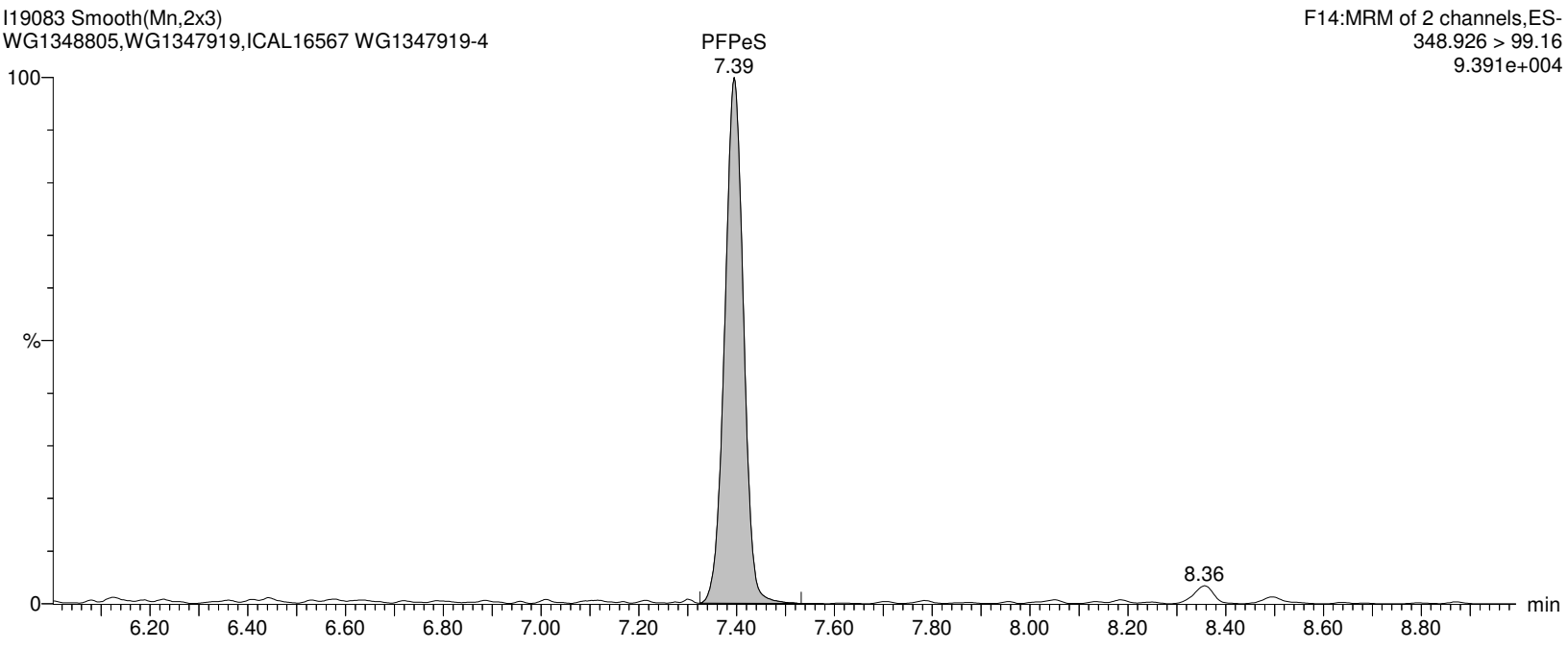

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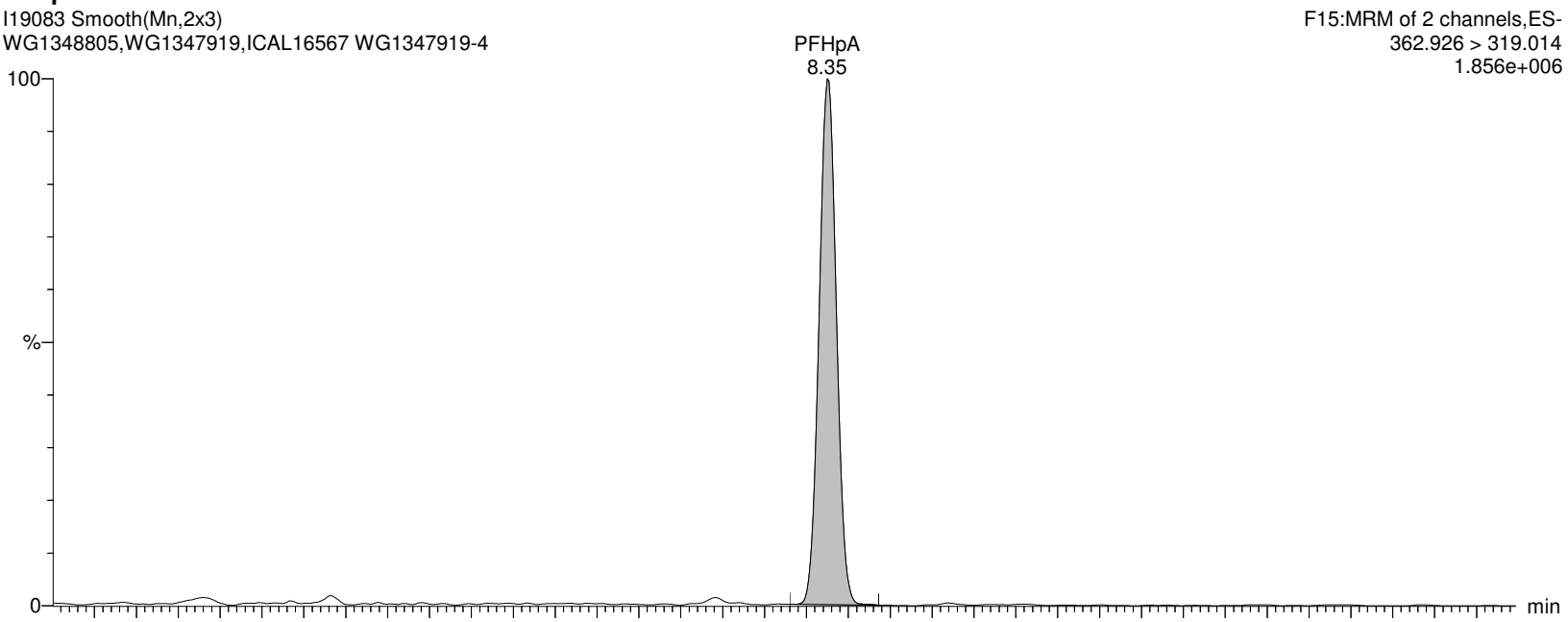

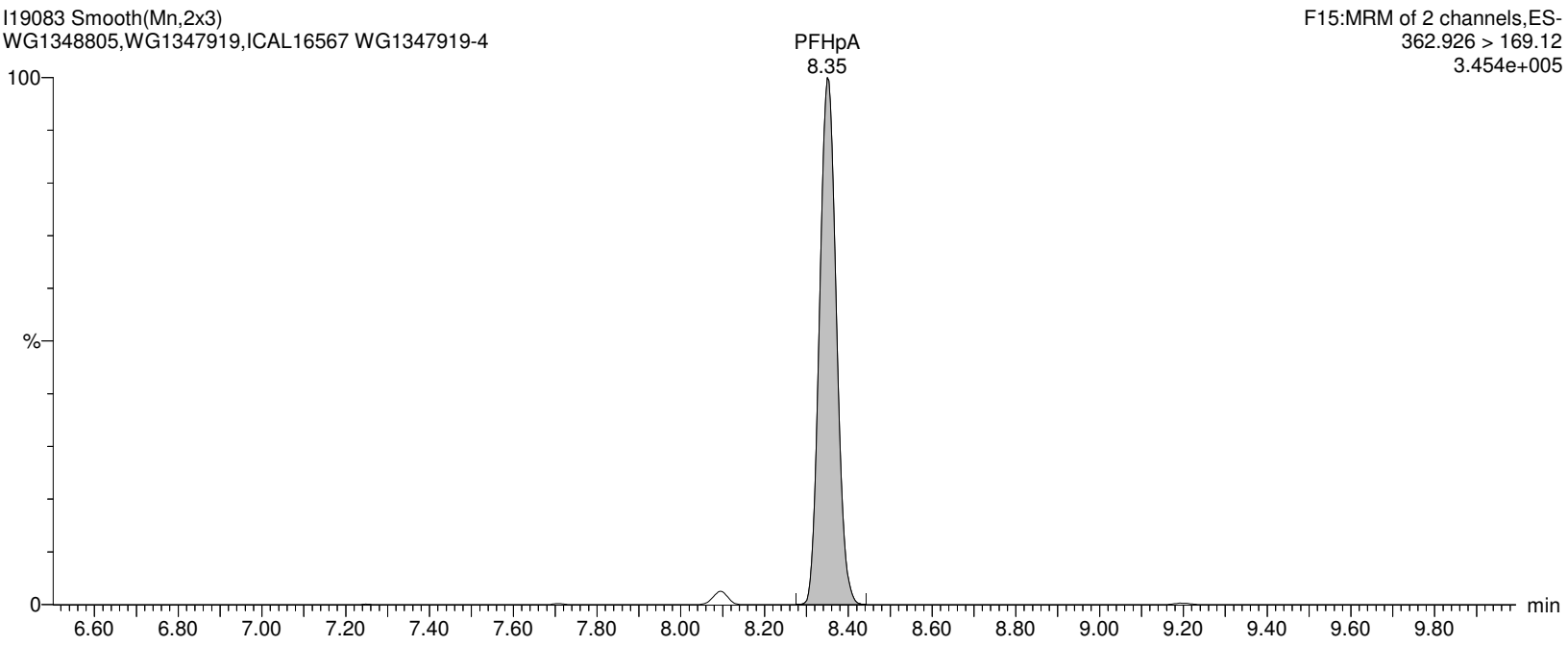

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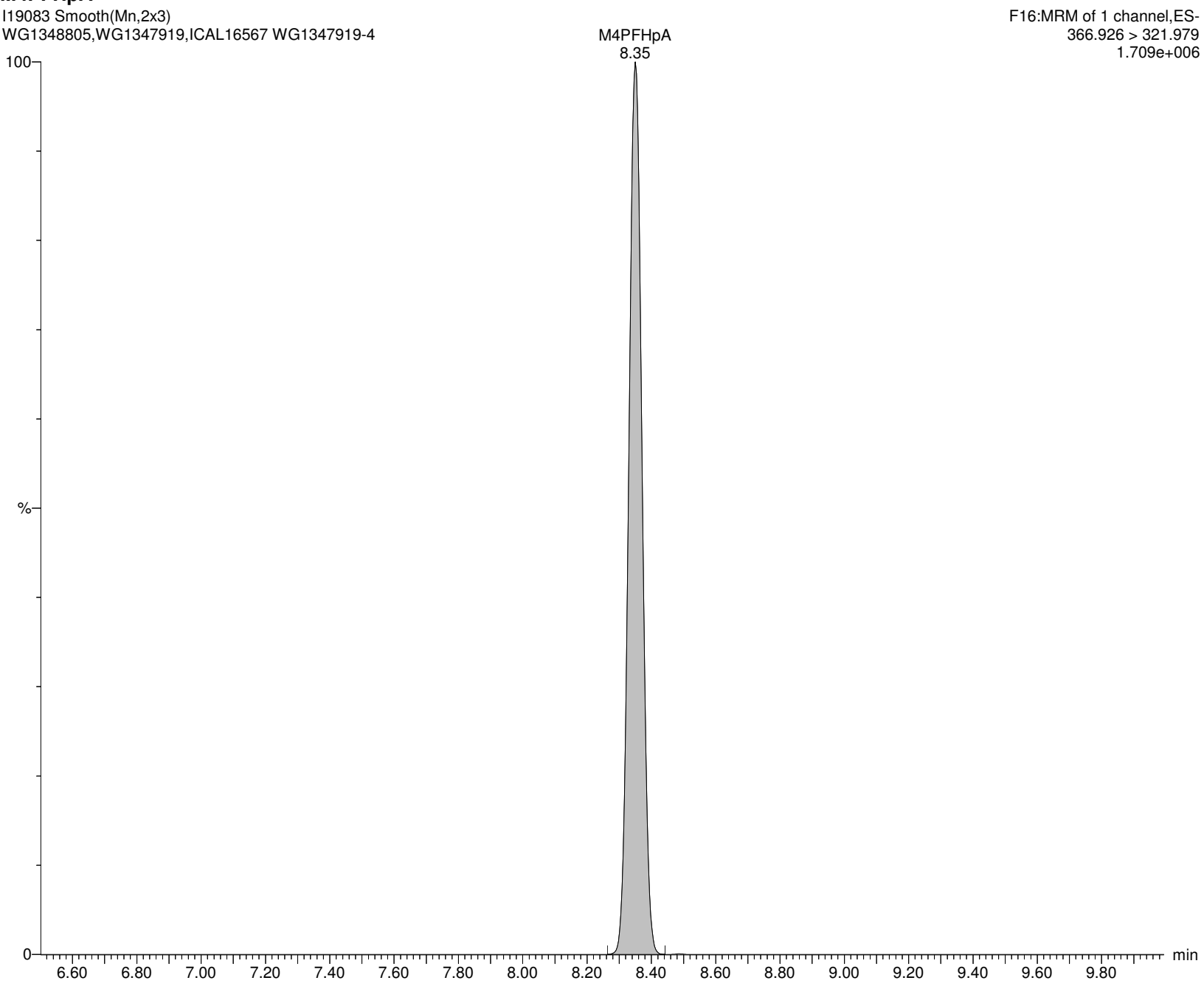
M4PFHpA



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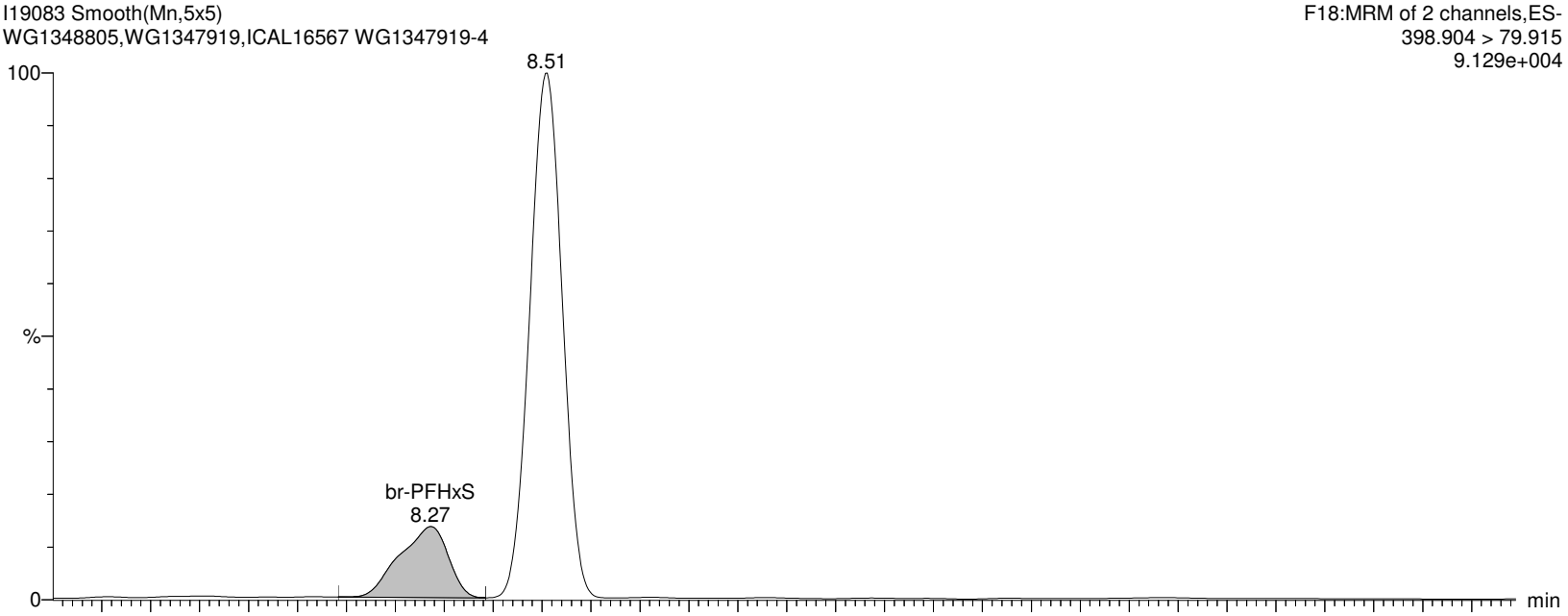

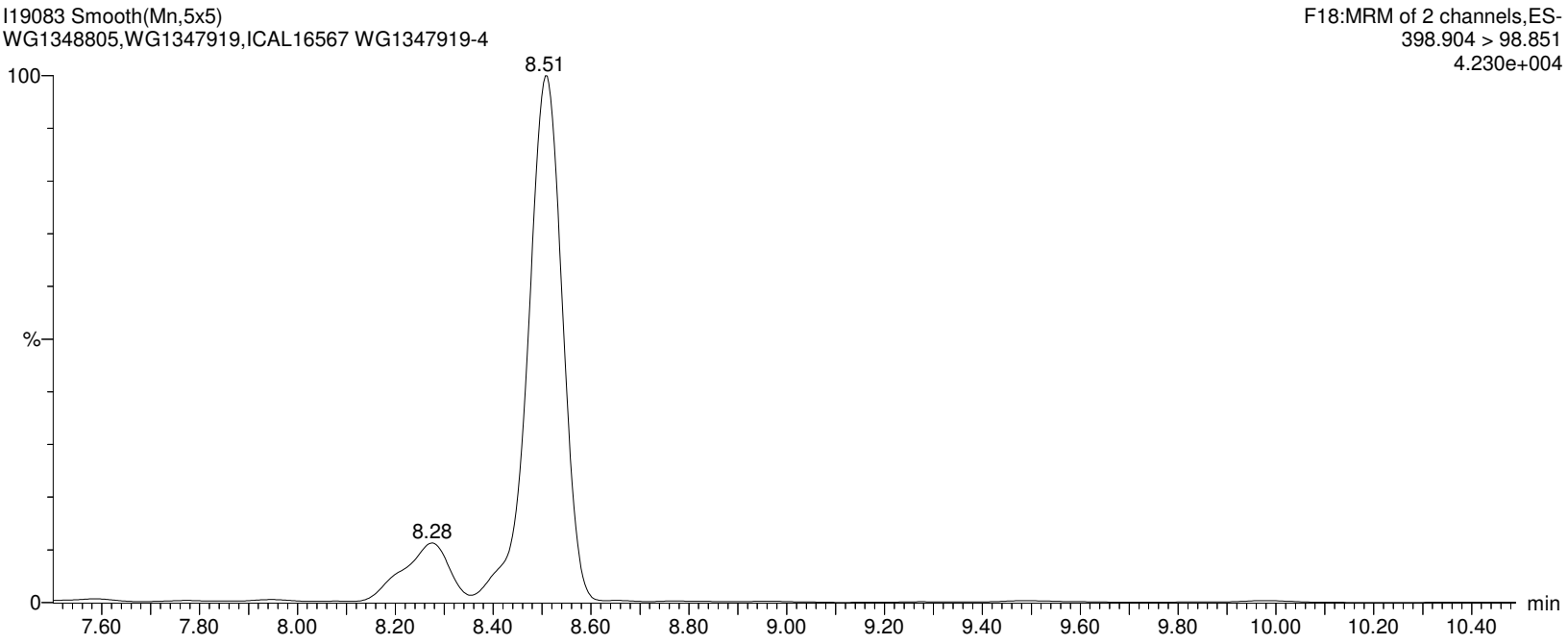

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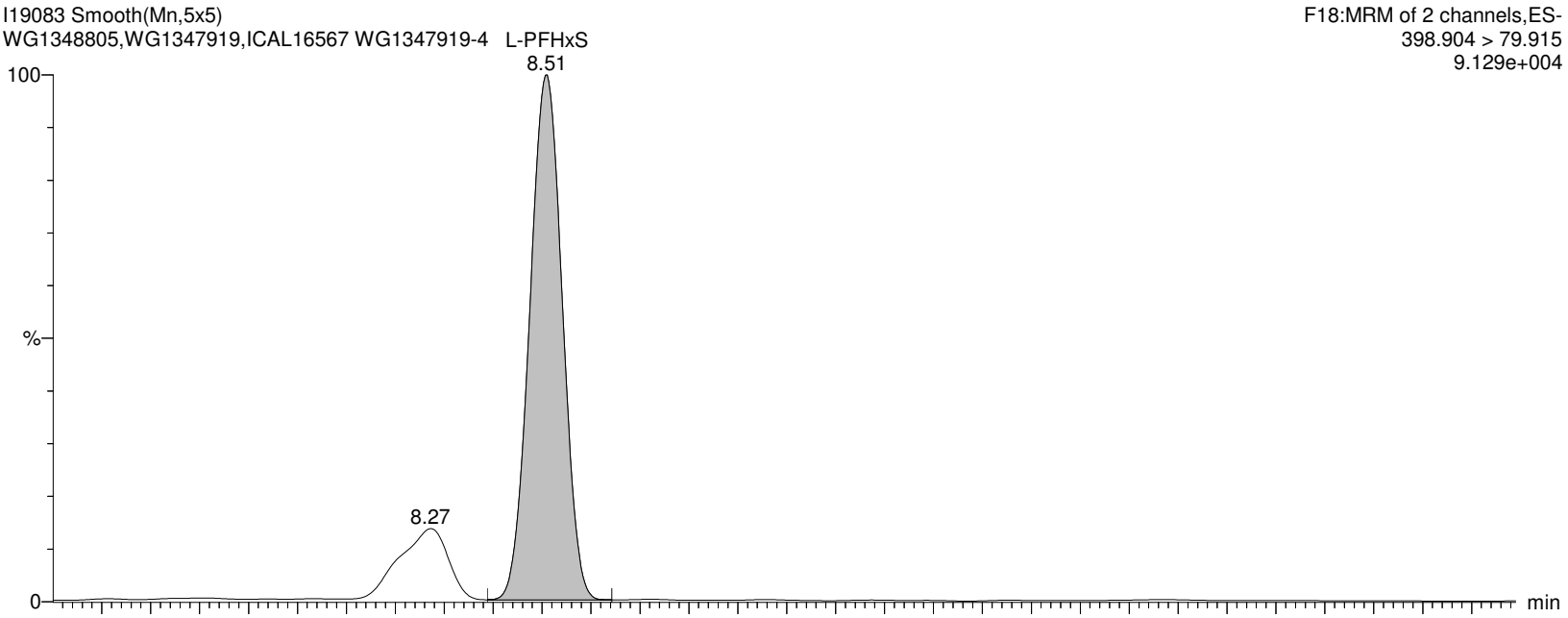
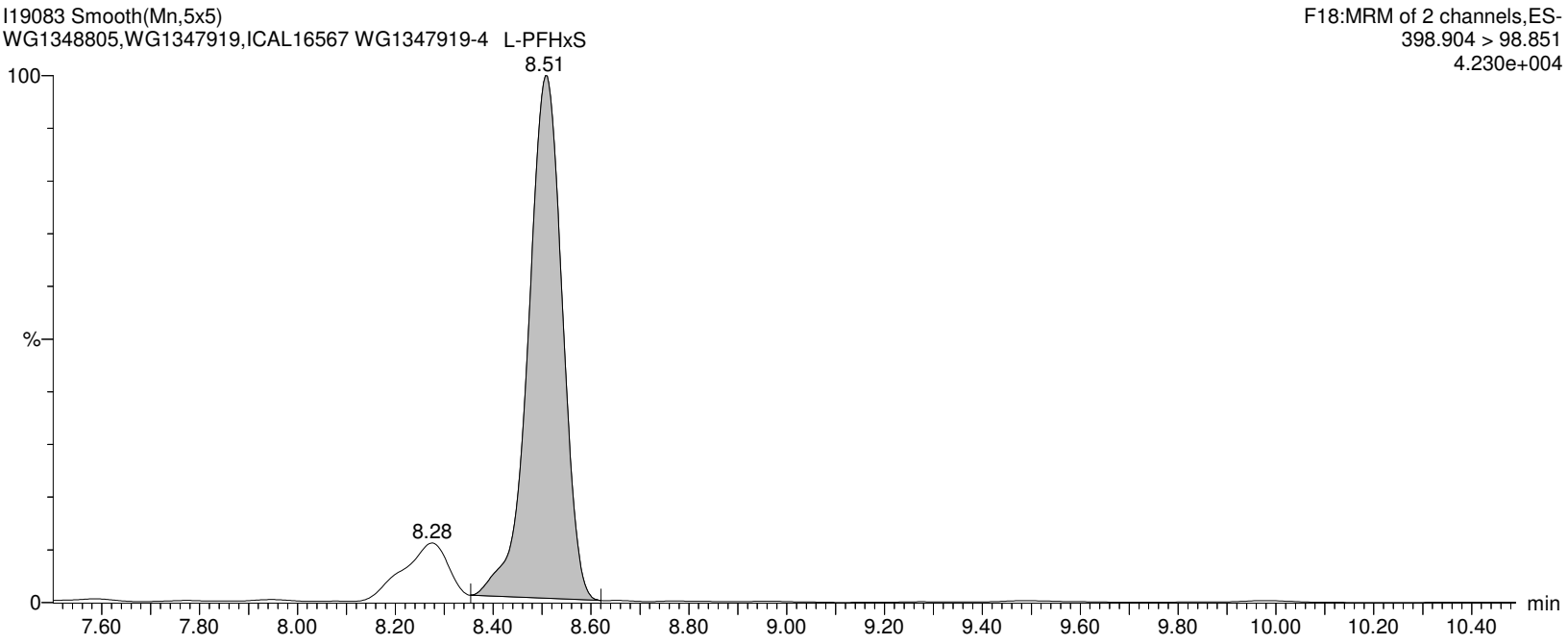
L-PFHxS





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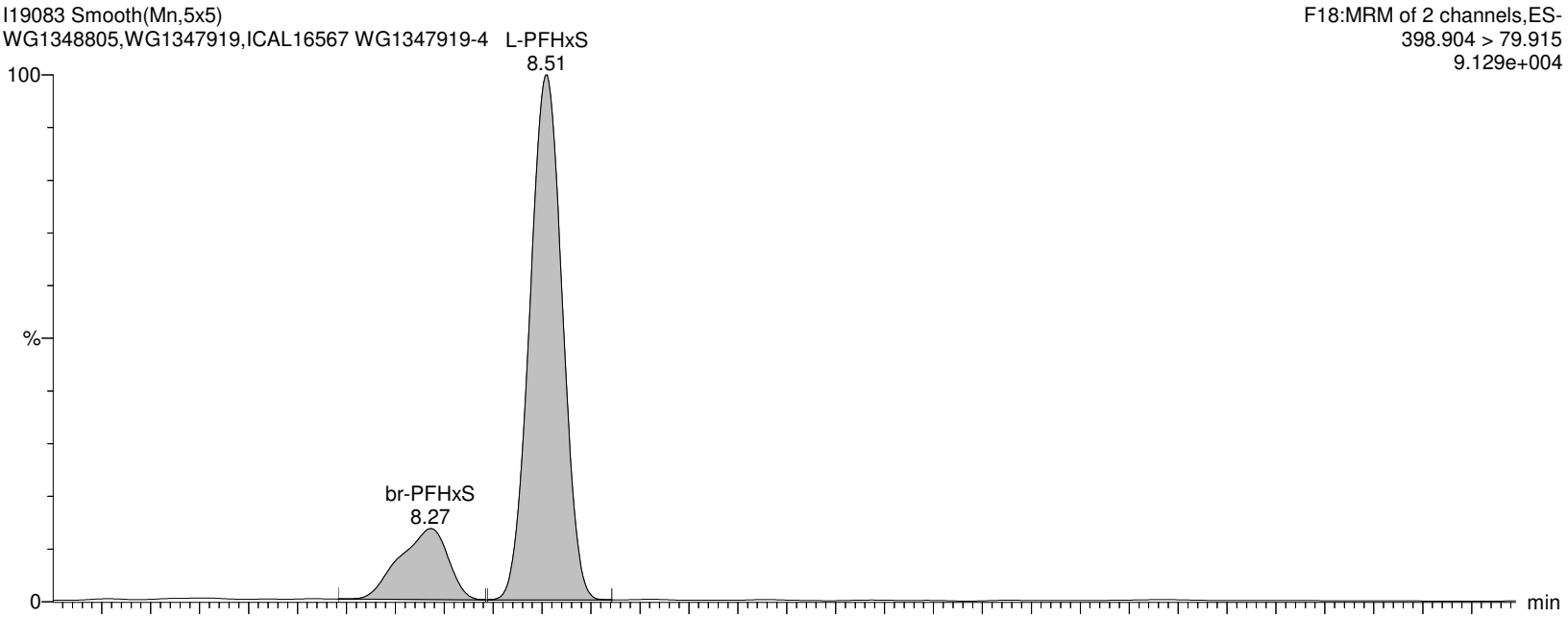

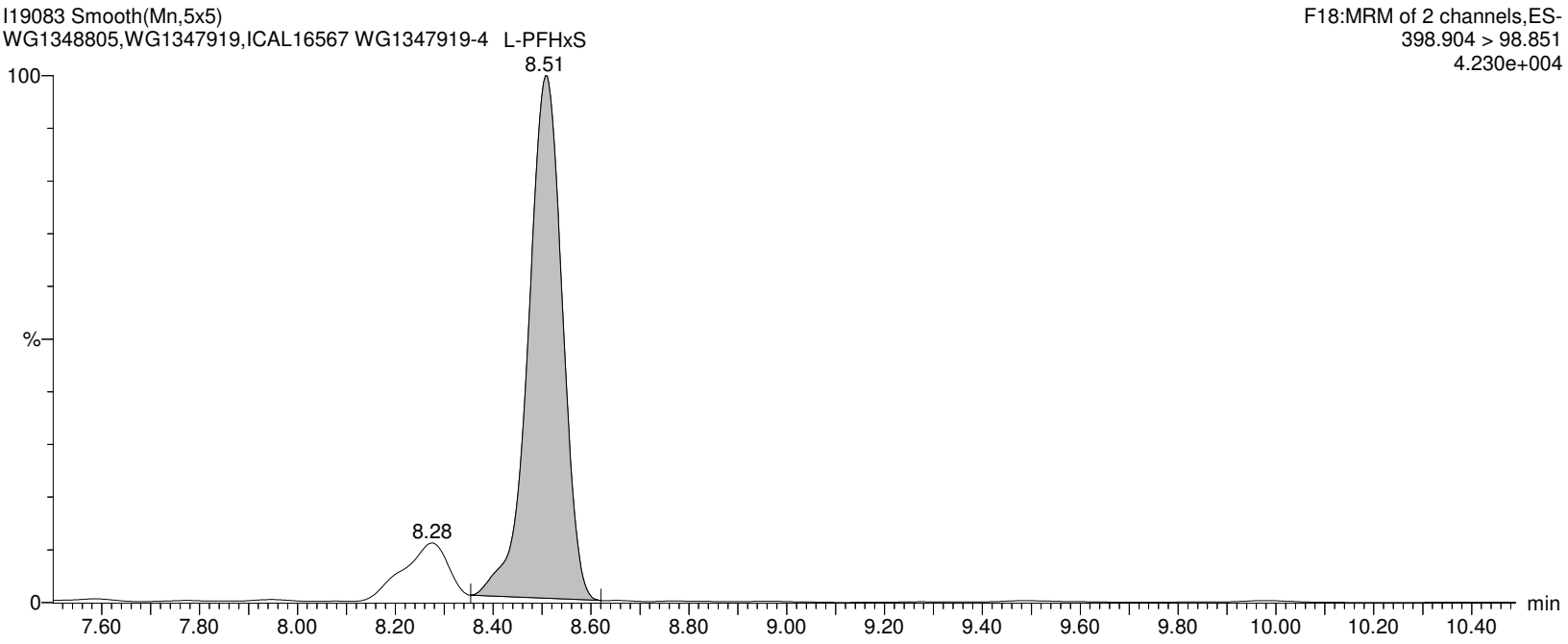

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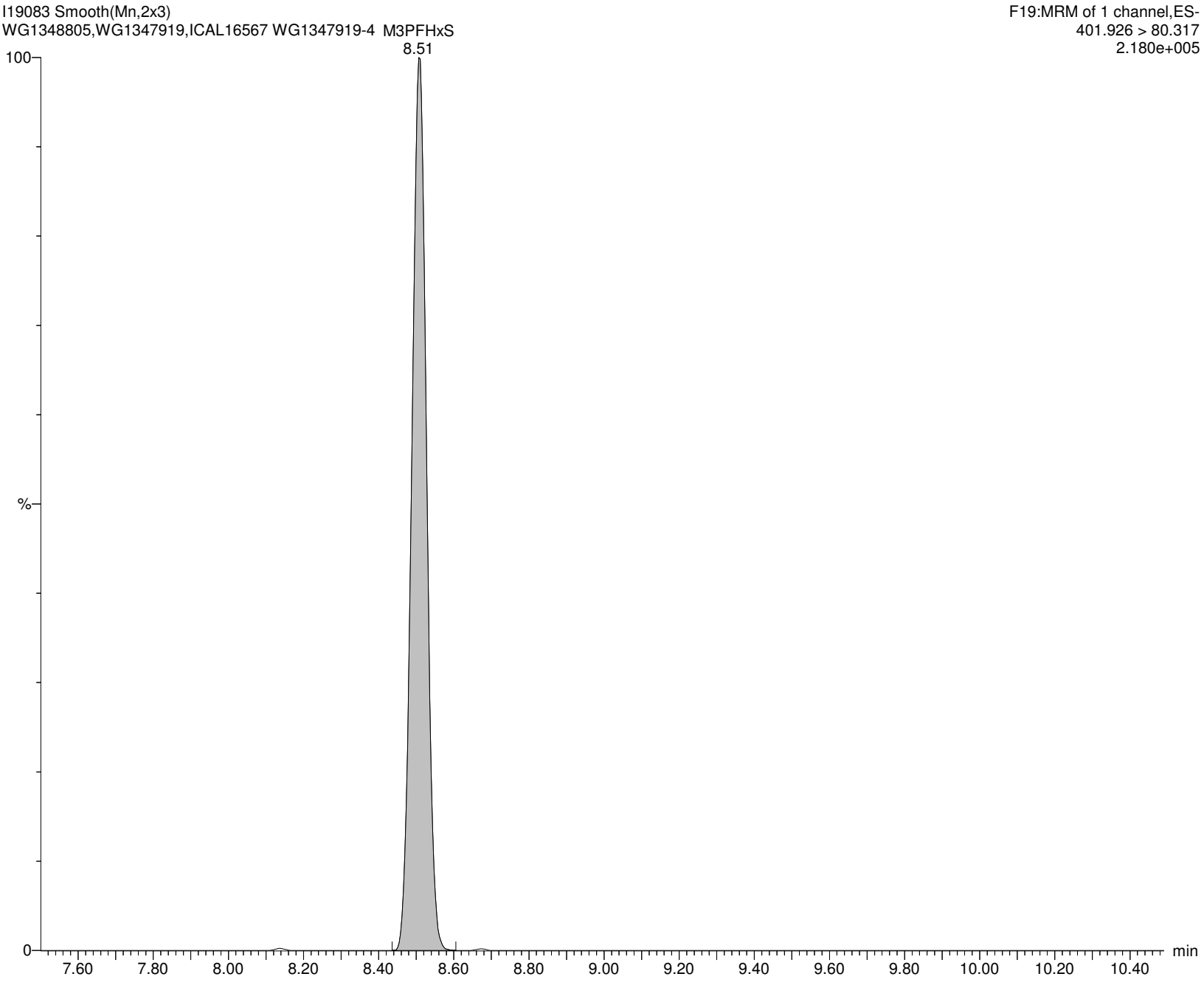

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:22:15 Eastern Daylight Time

Name: I19083
ID: WG1347919-4
Date: 09-Mar-2020
Time: 16:46:25
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,6
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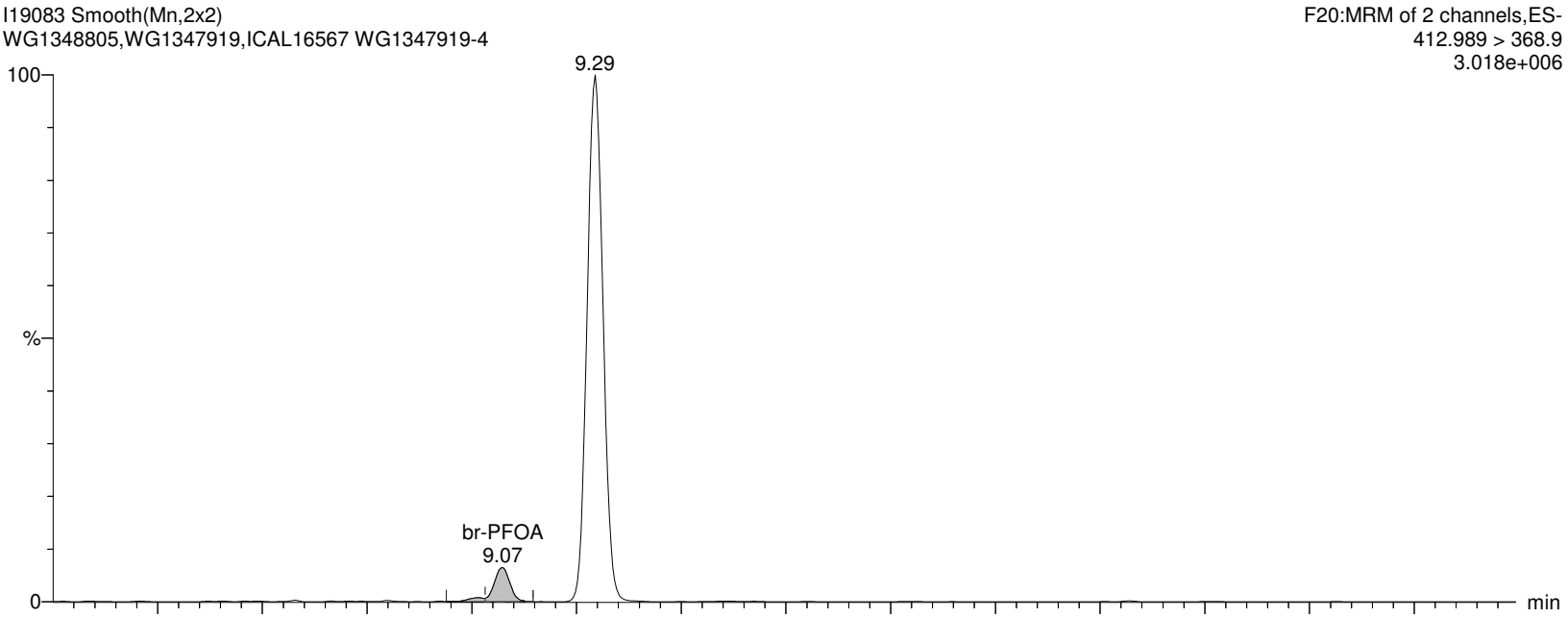

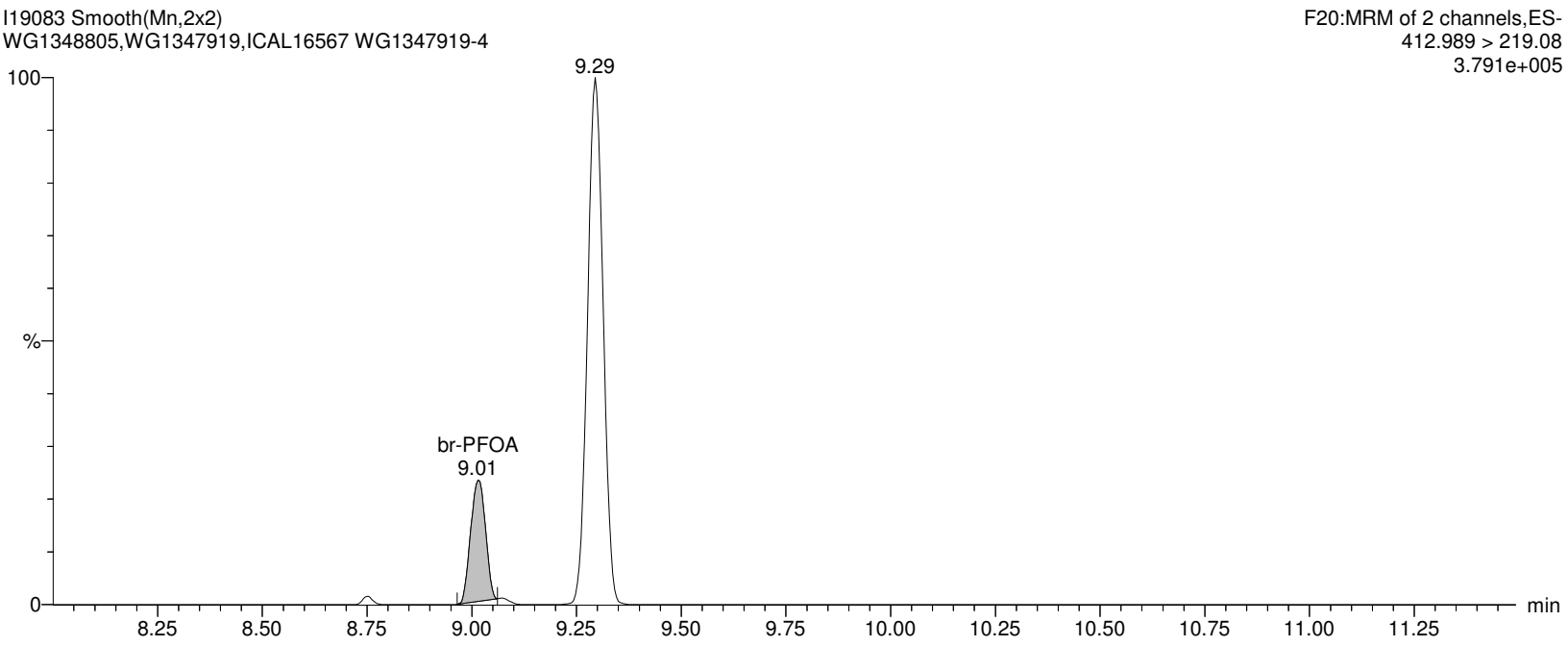

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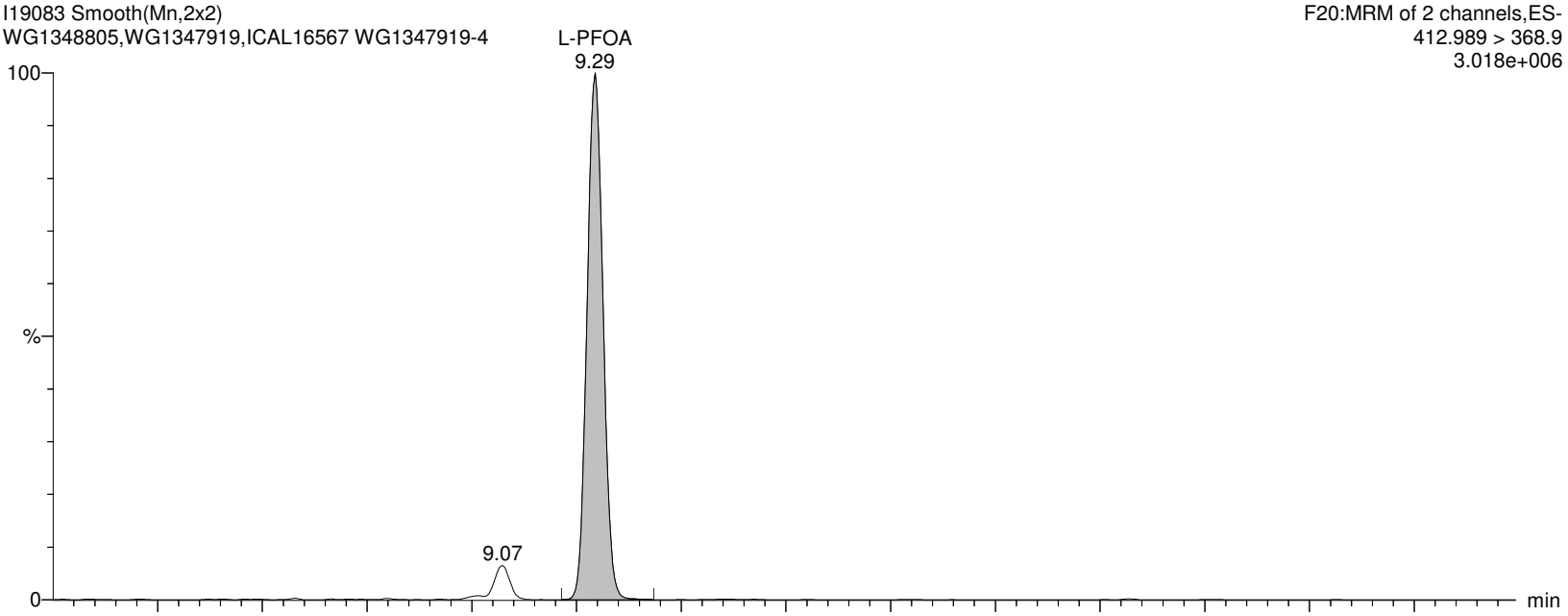

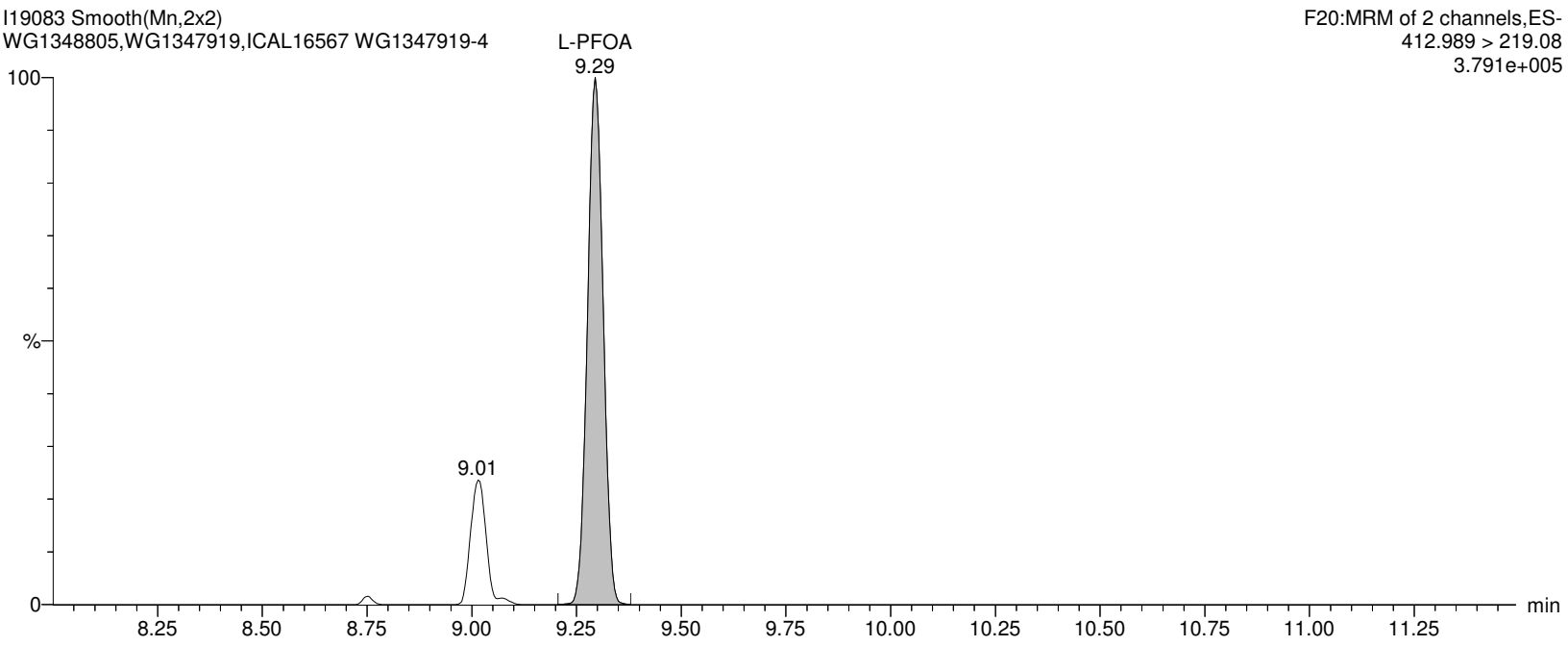

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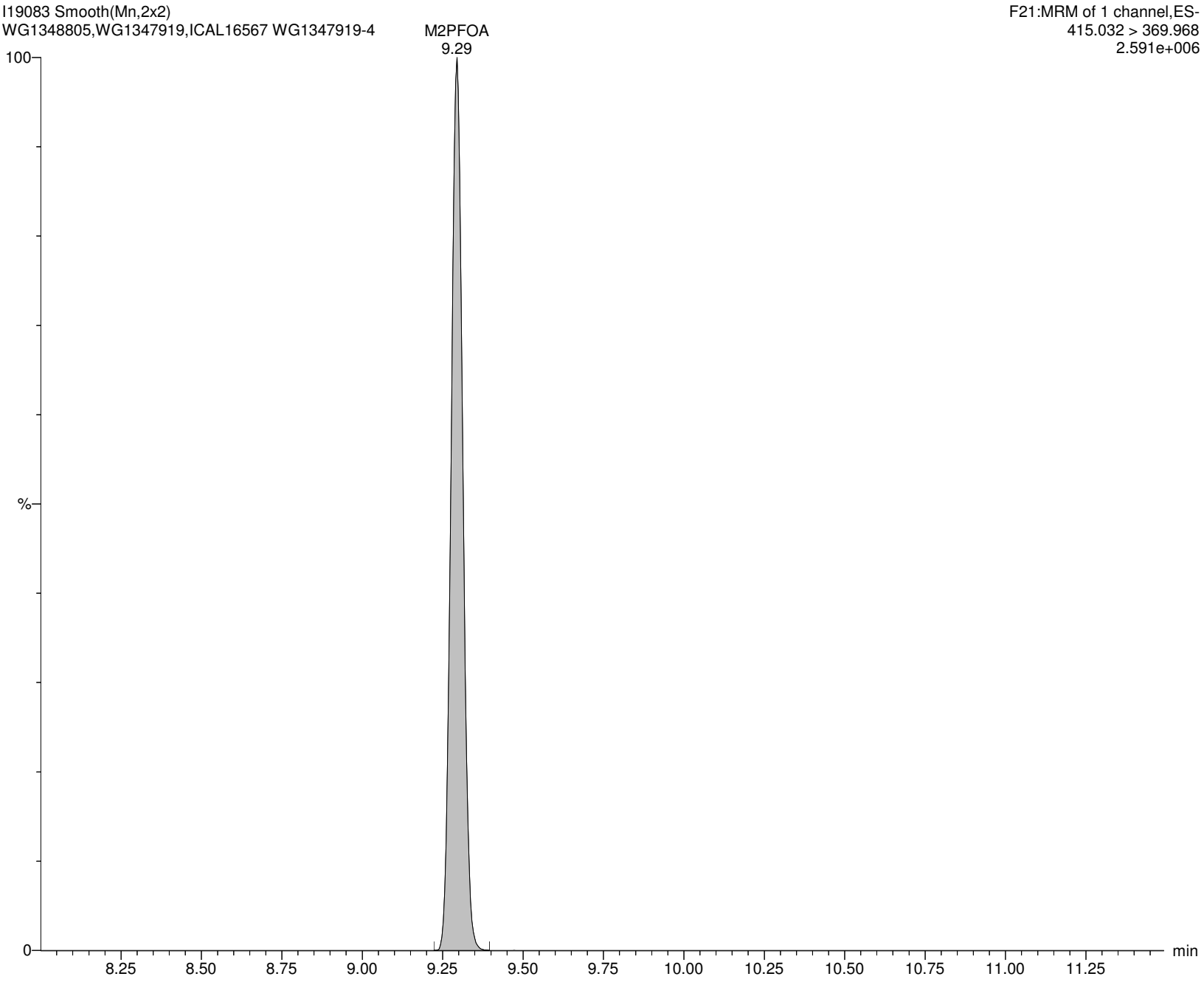

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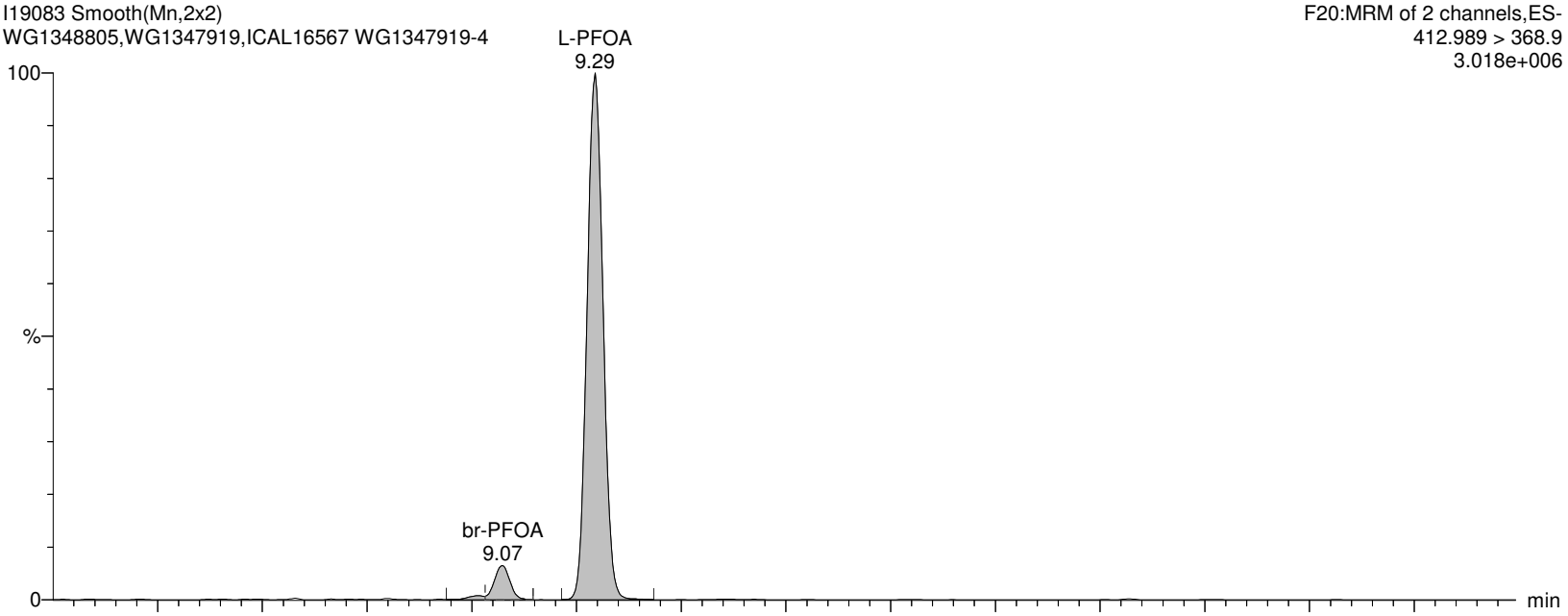

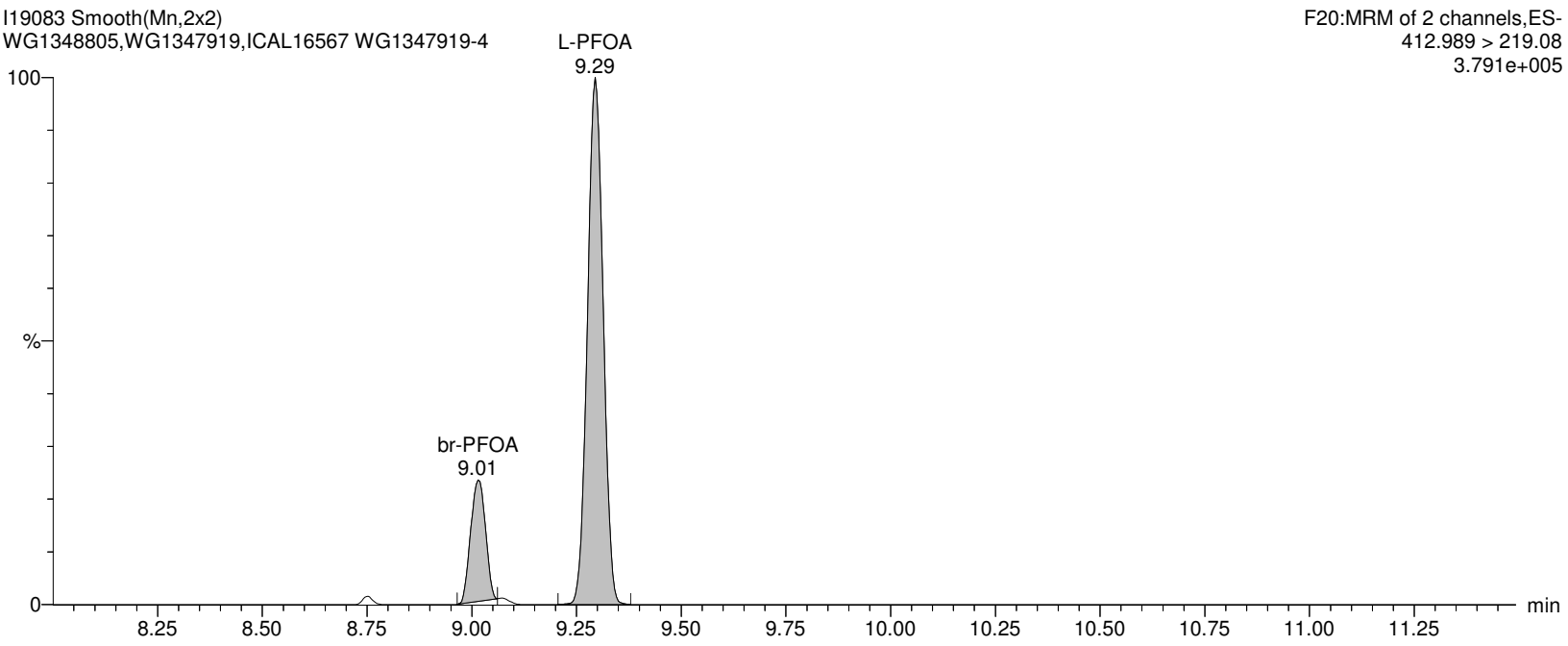

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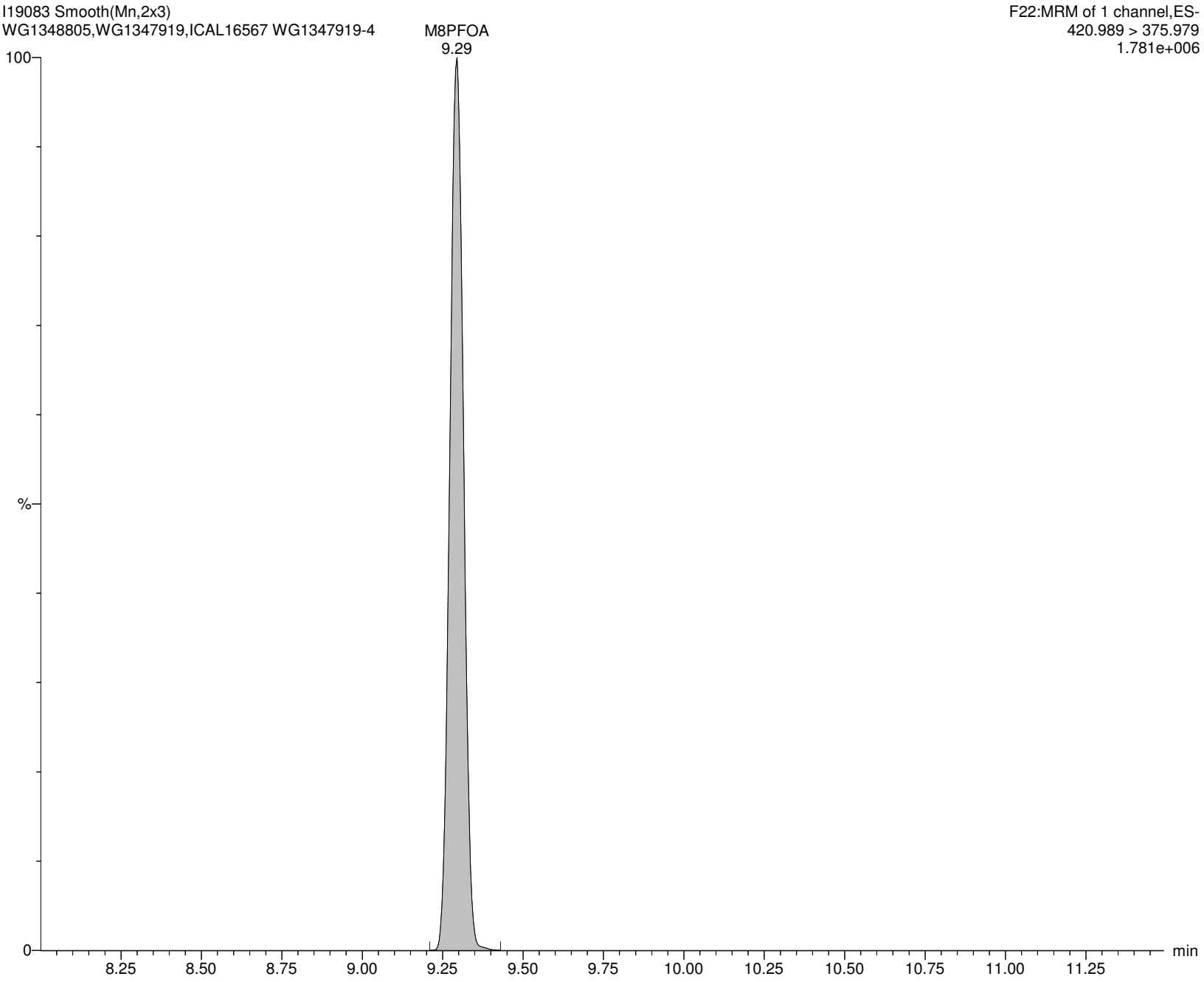

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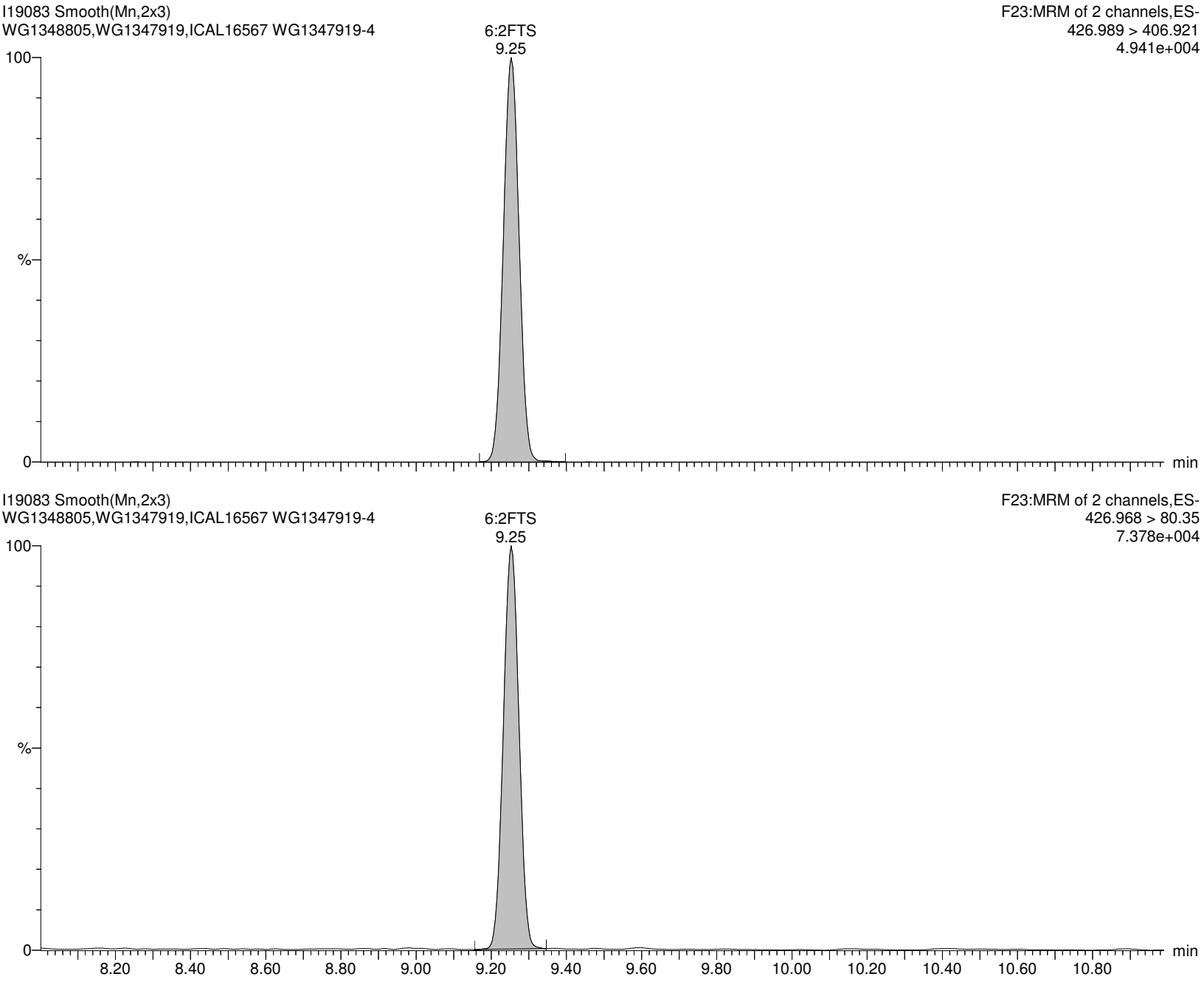

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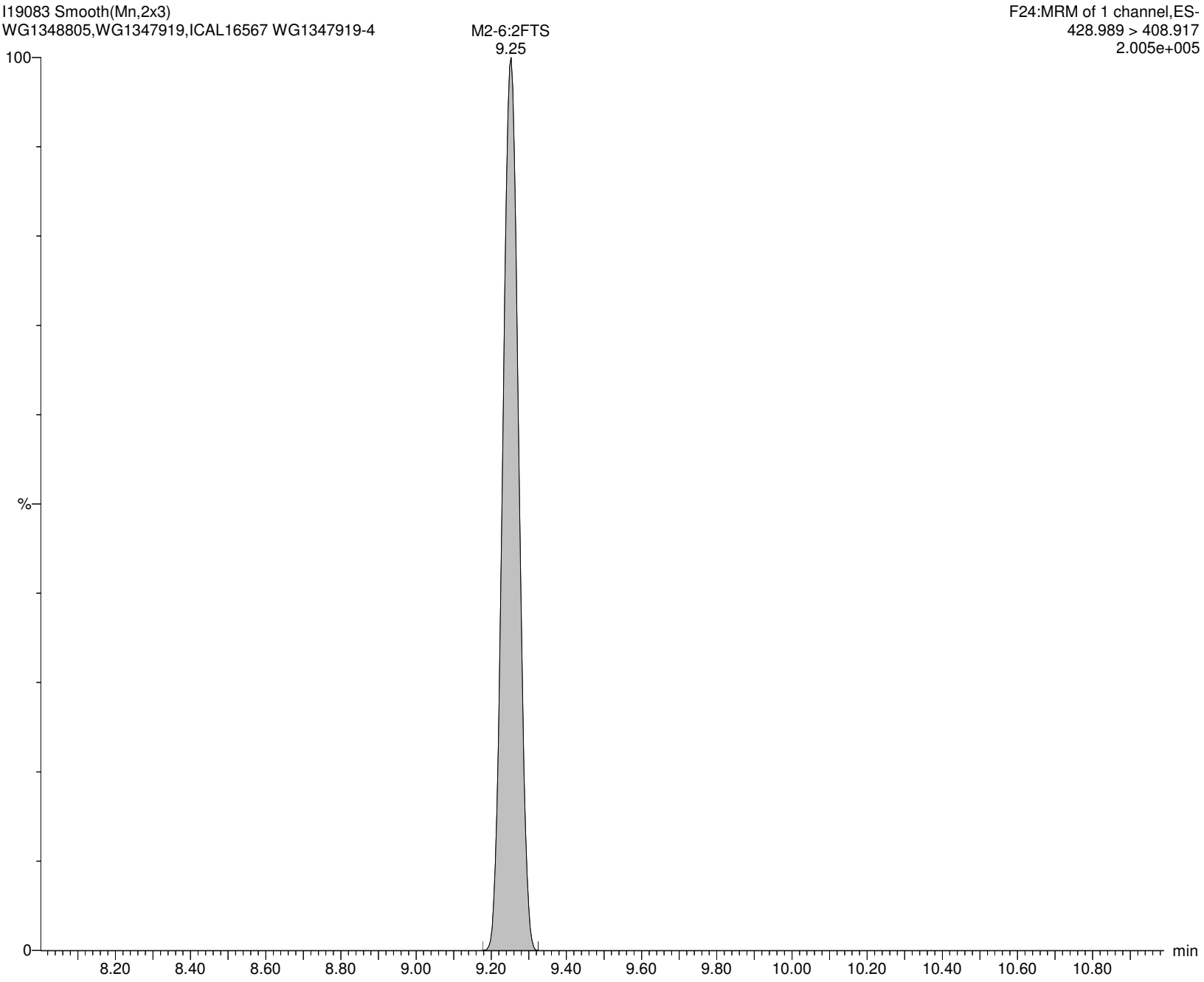

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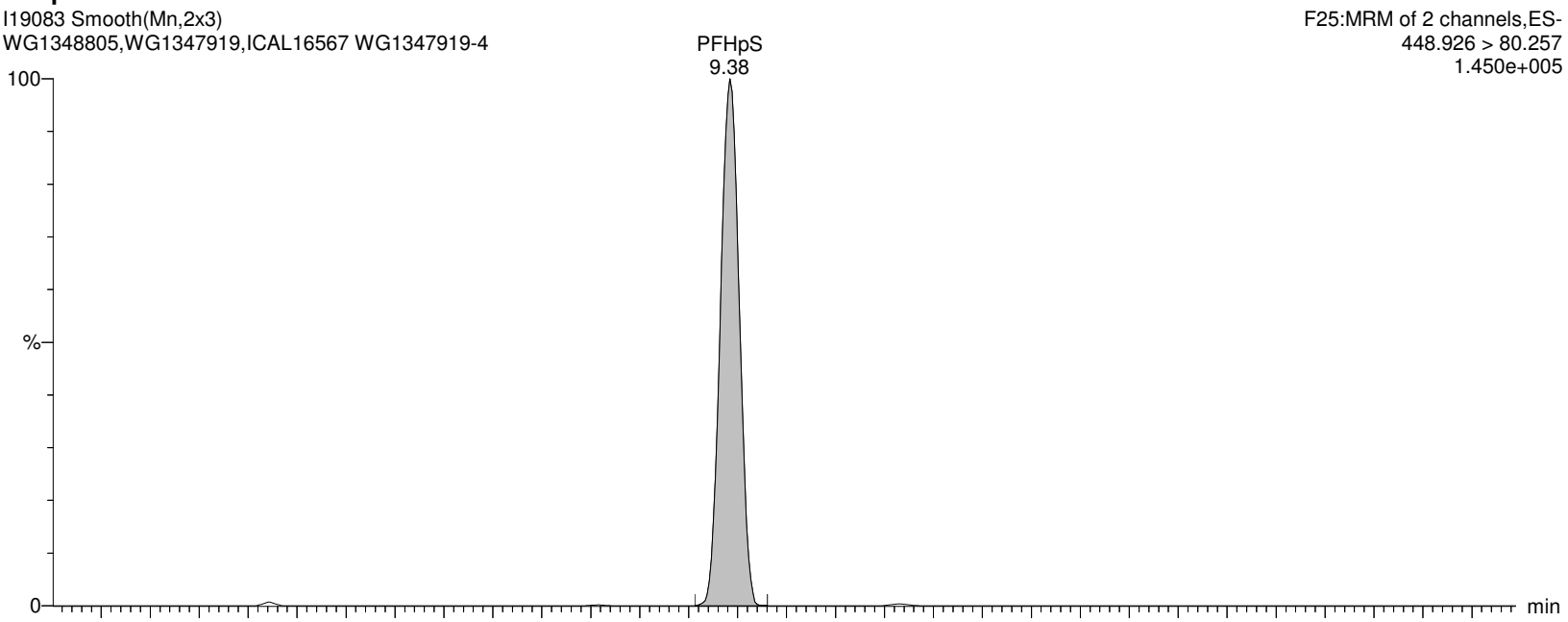

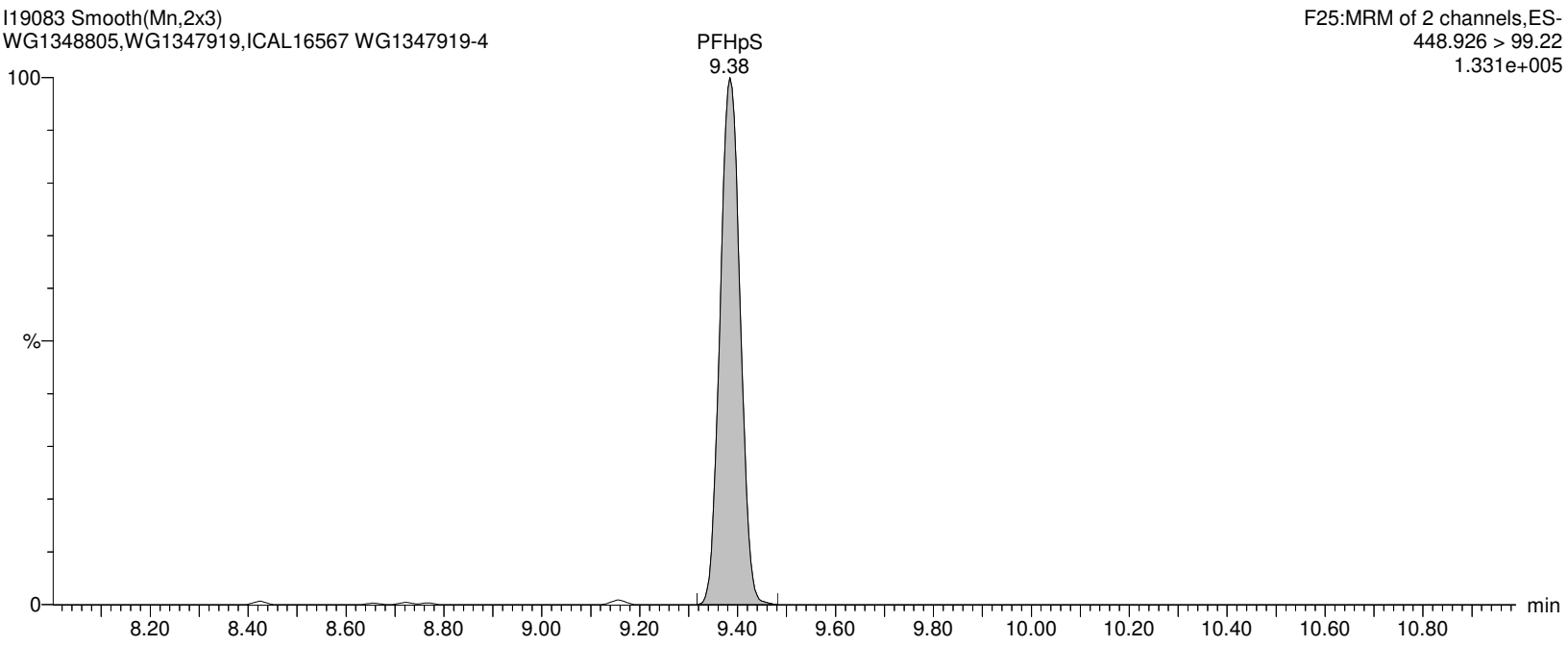

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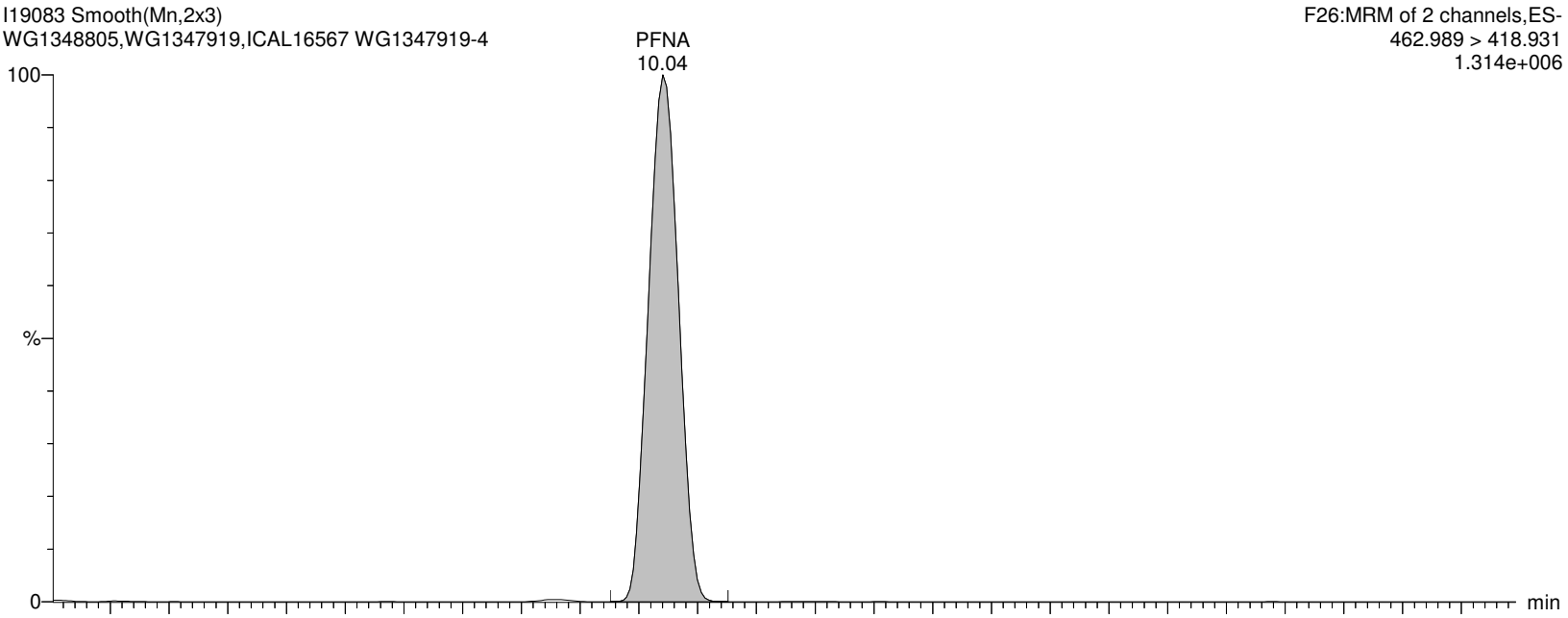

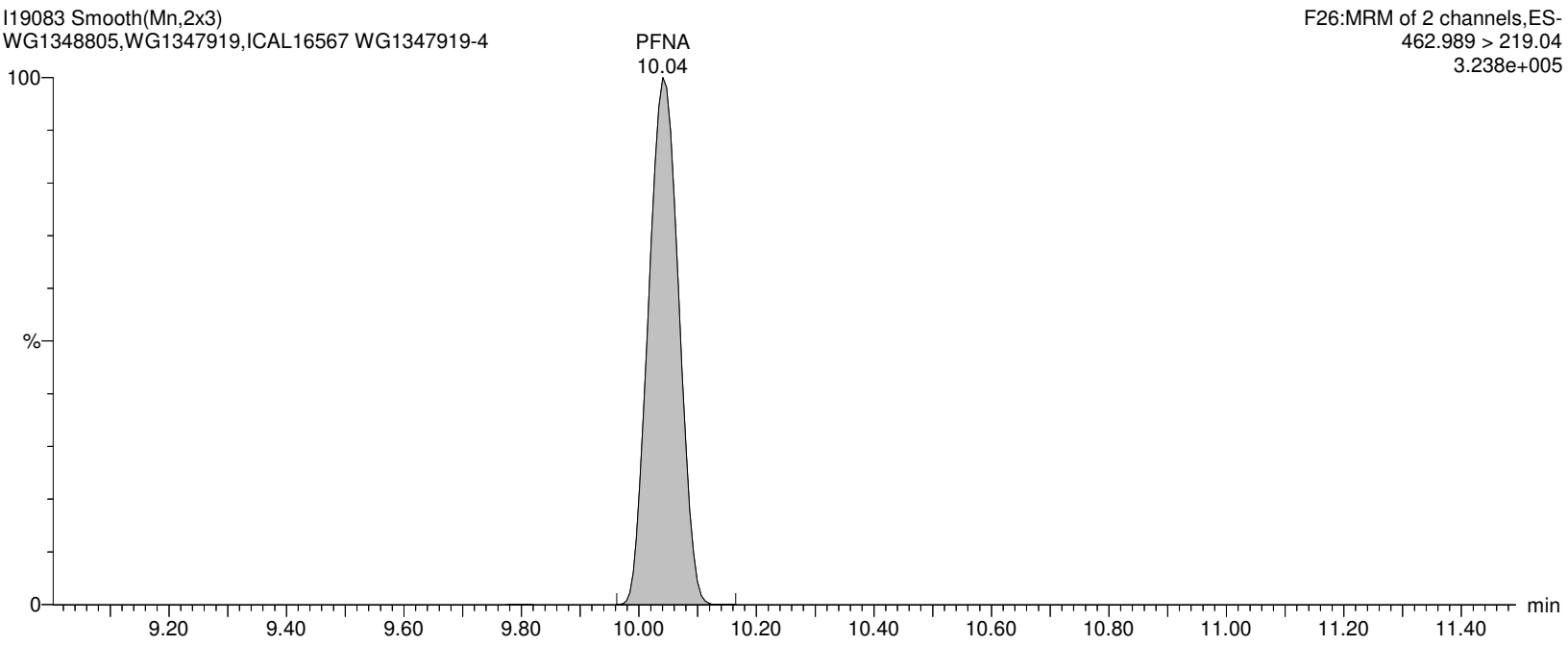

all concentration units in (ng/mL)

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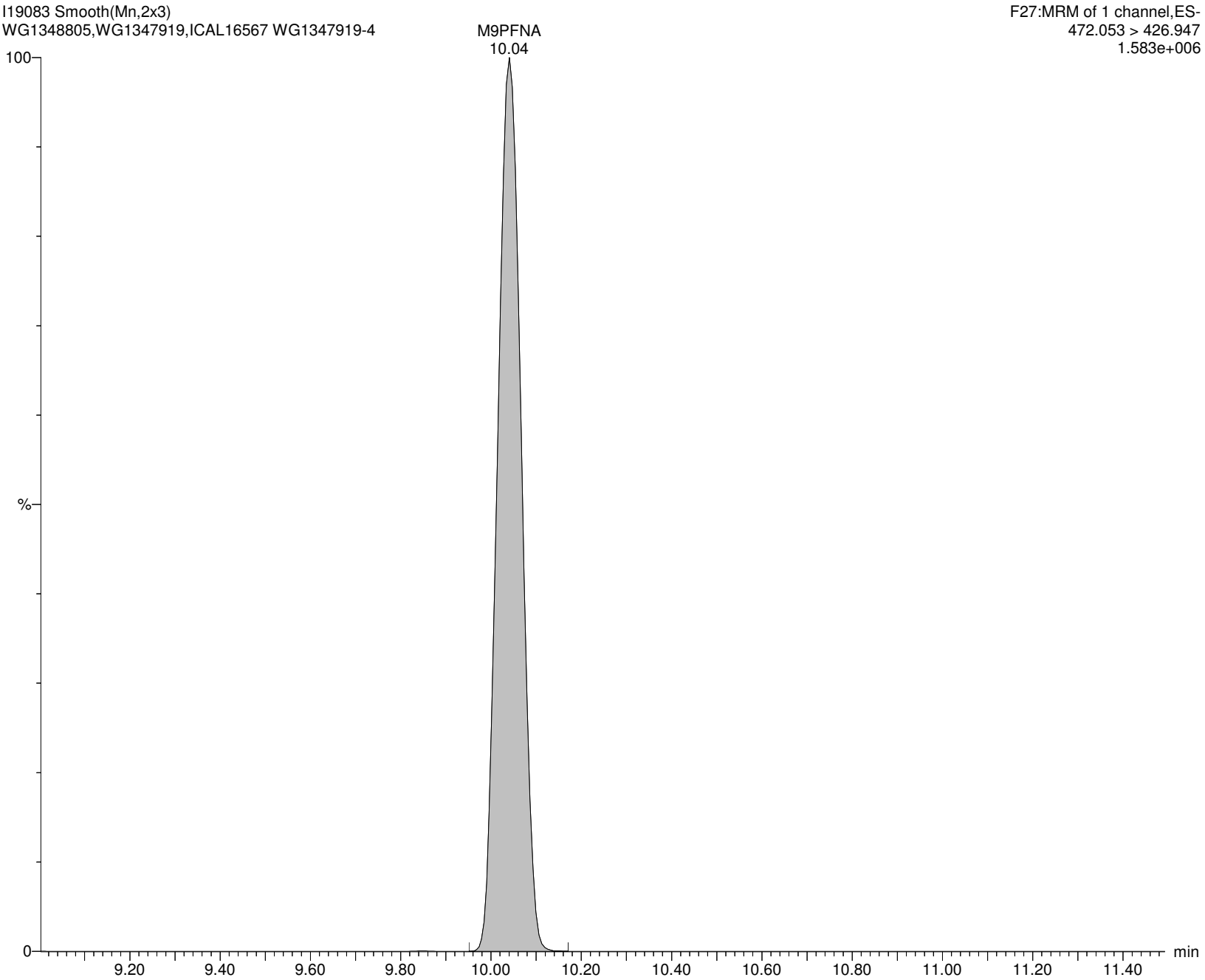

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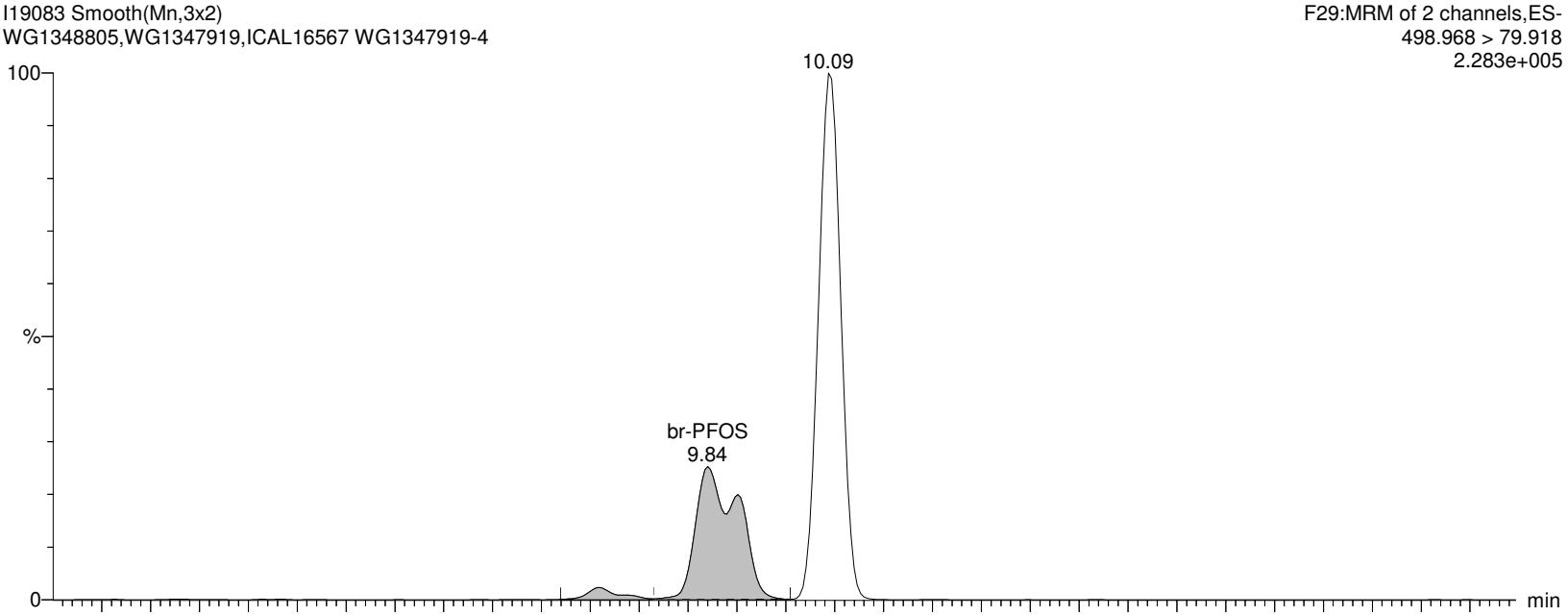

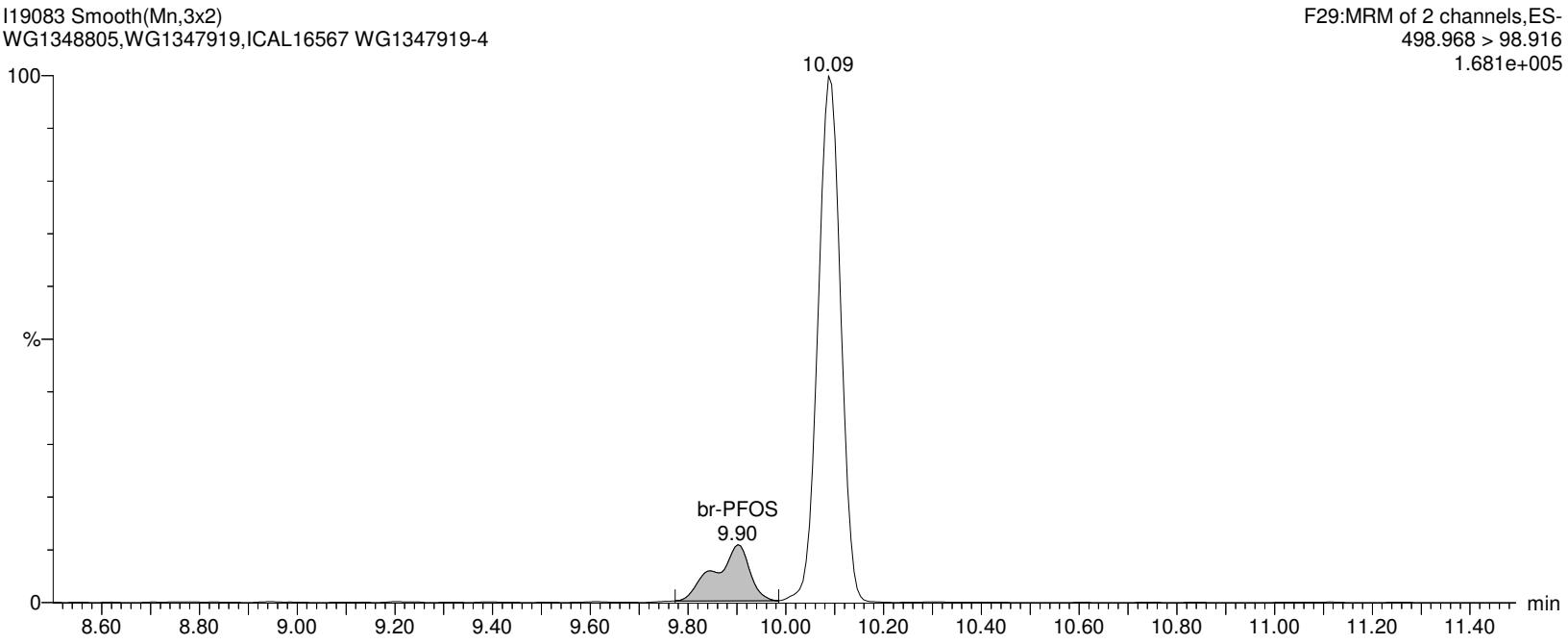

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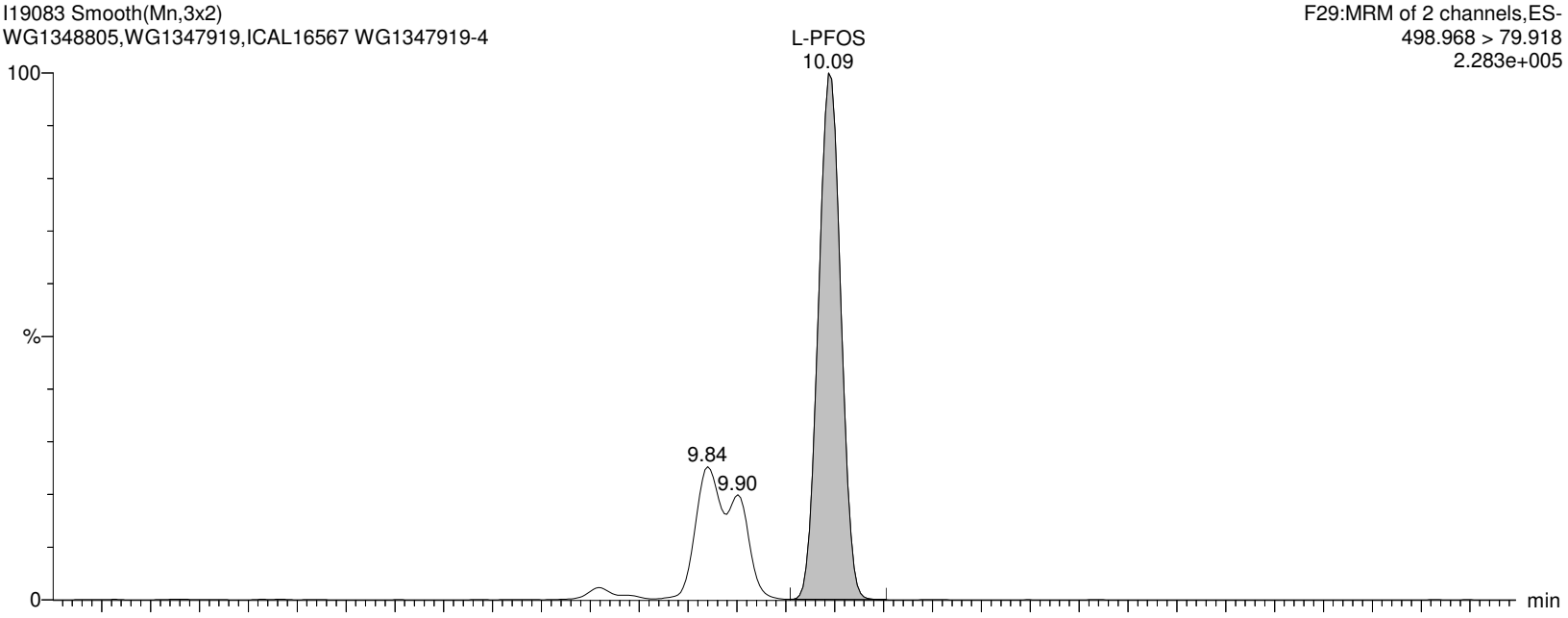

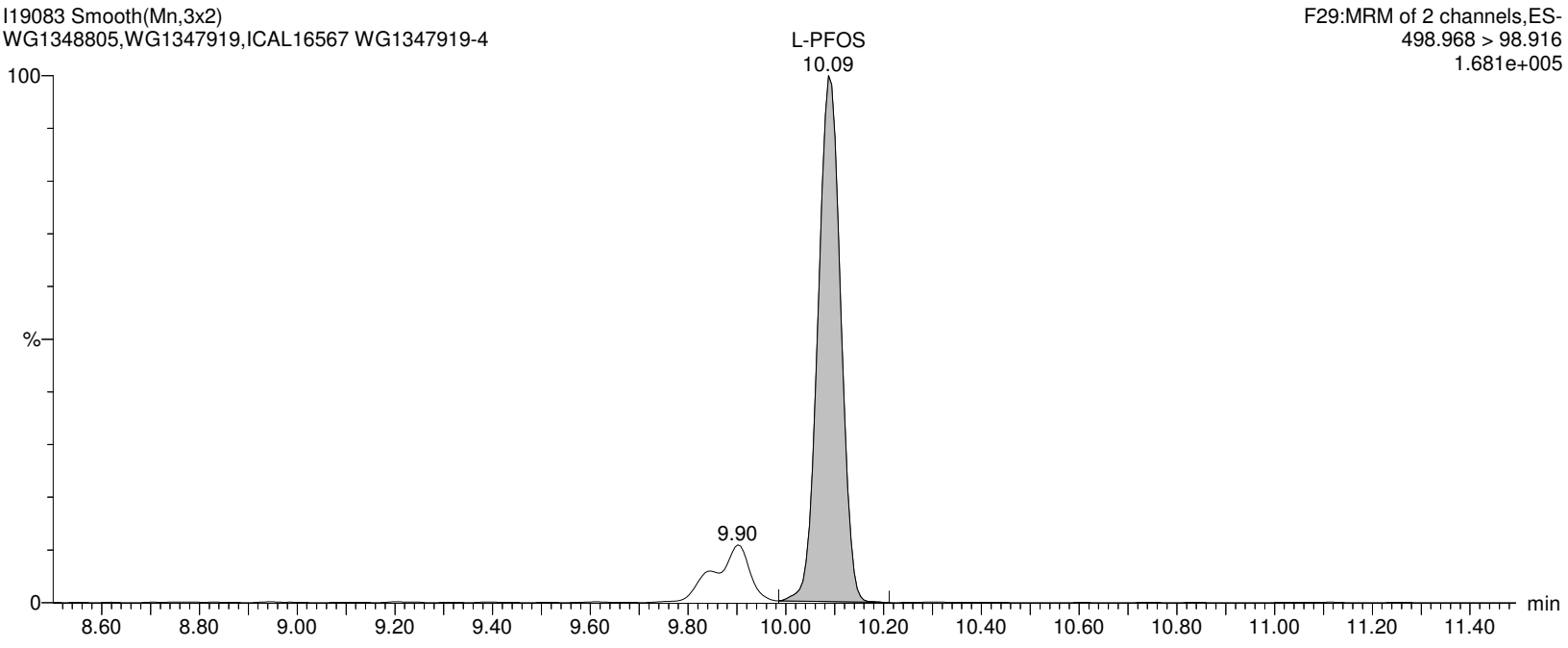

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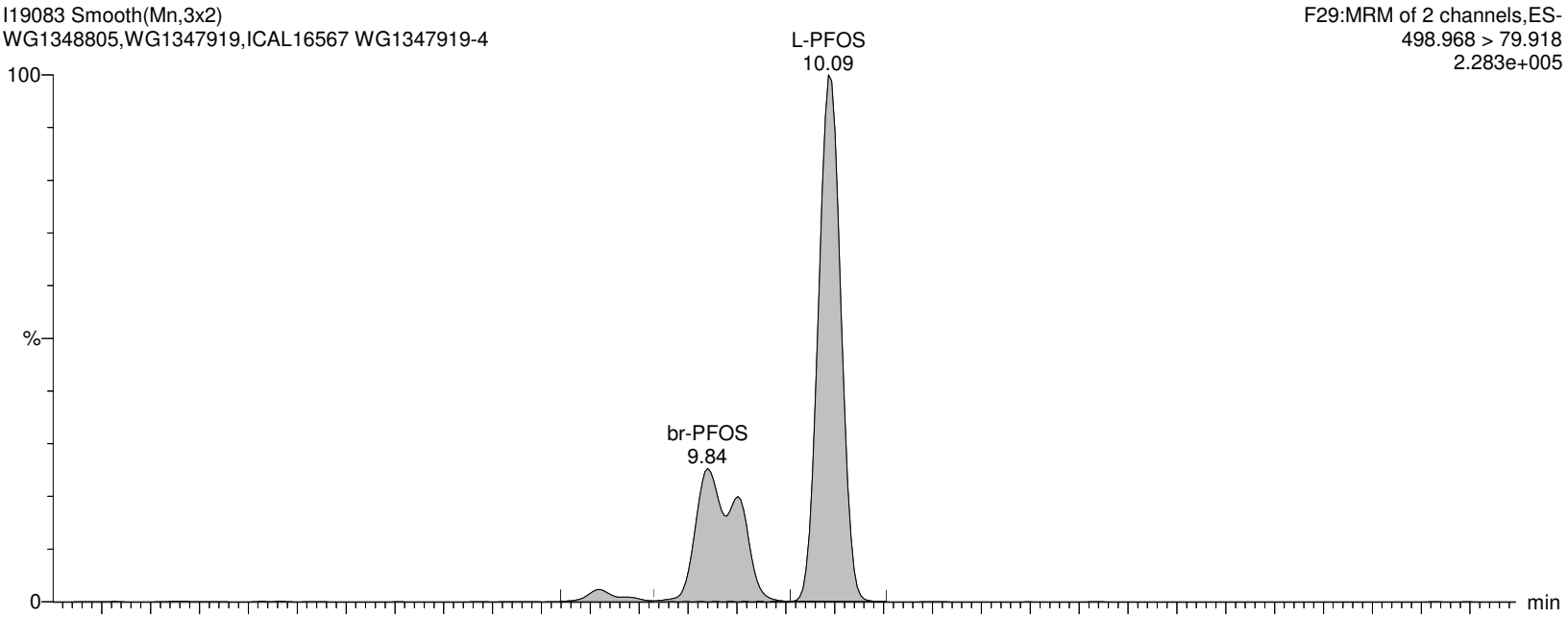

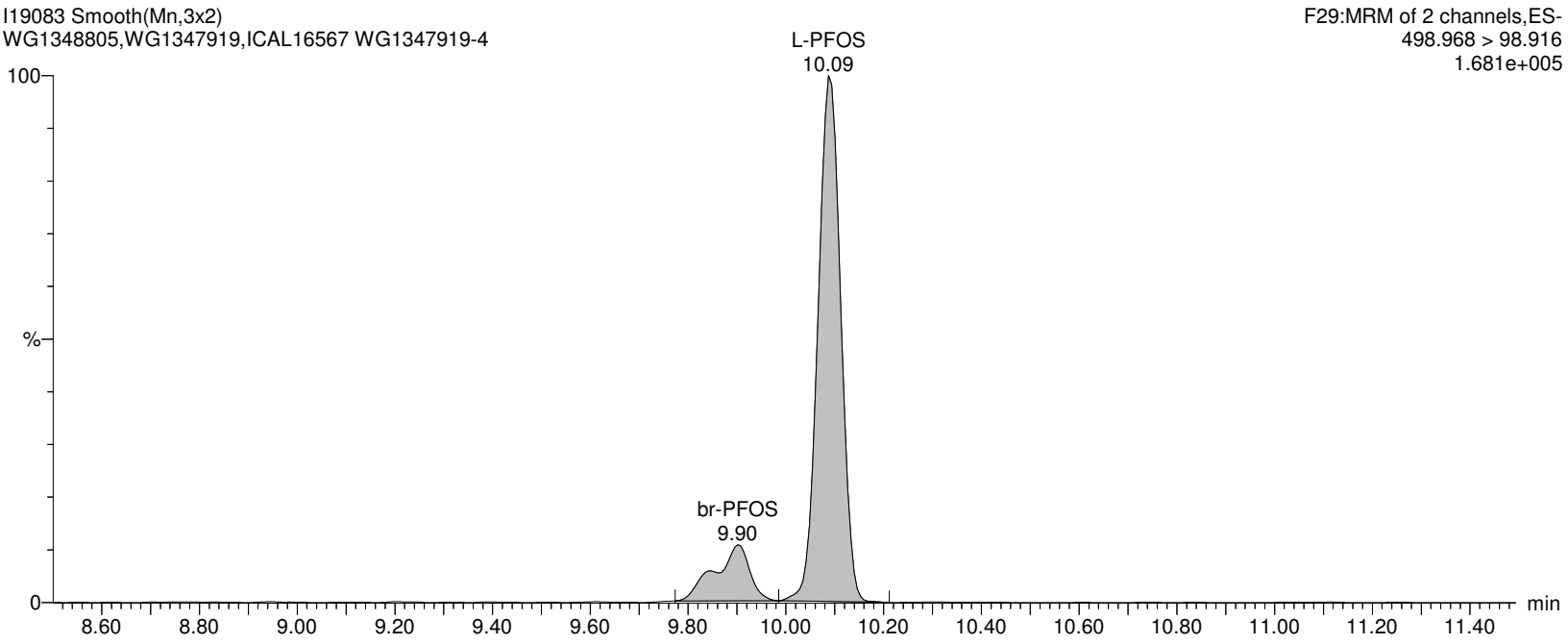

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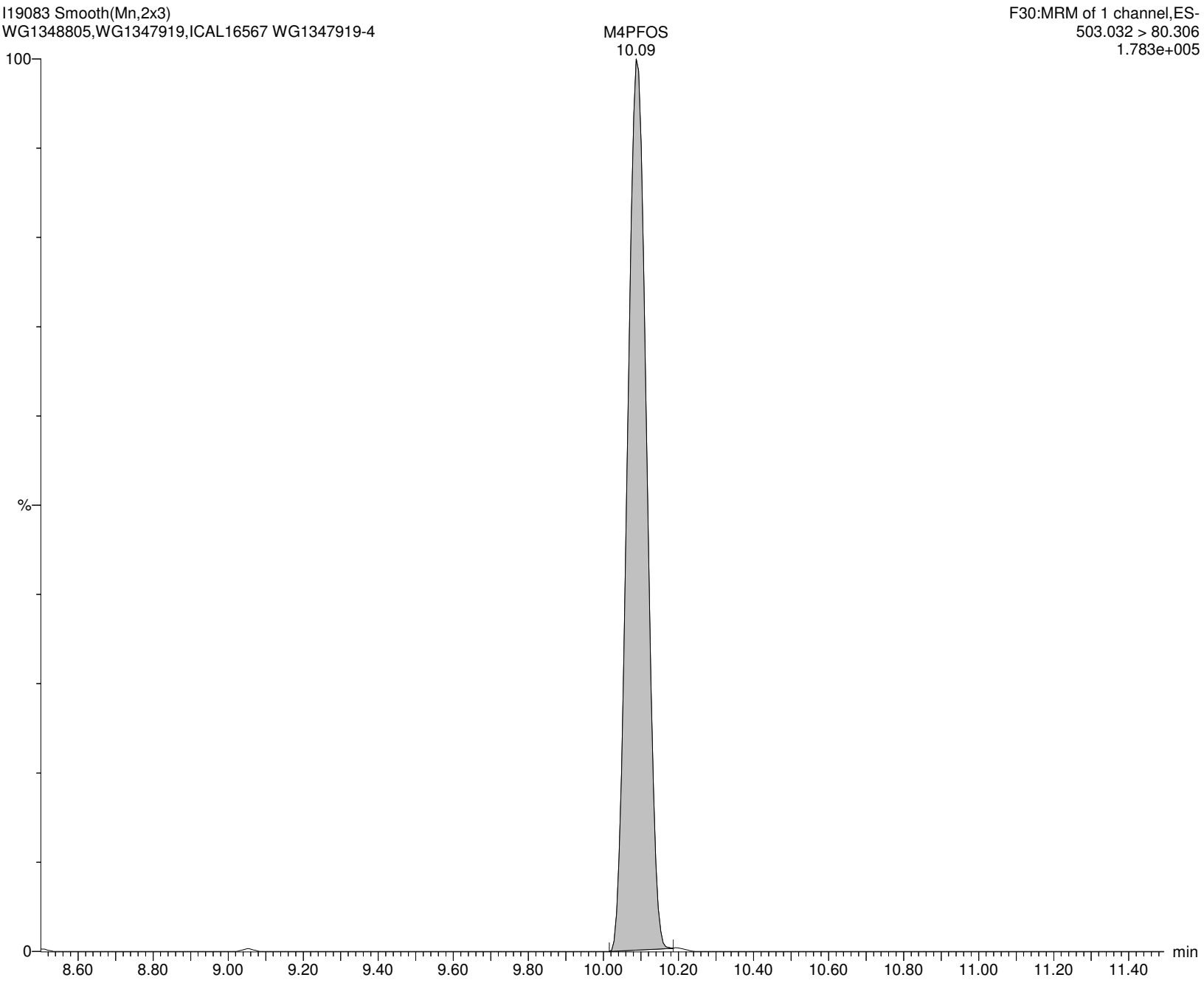

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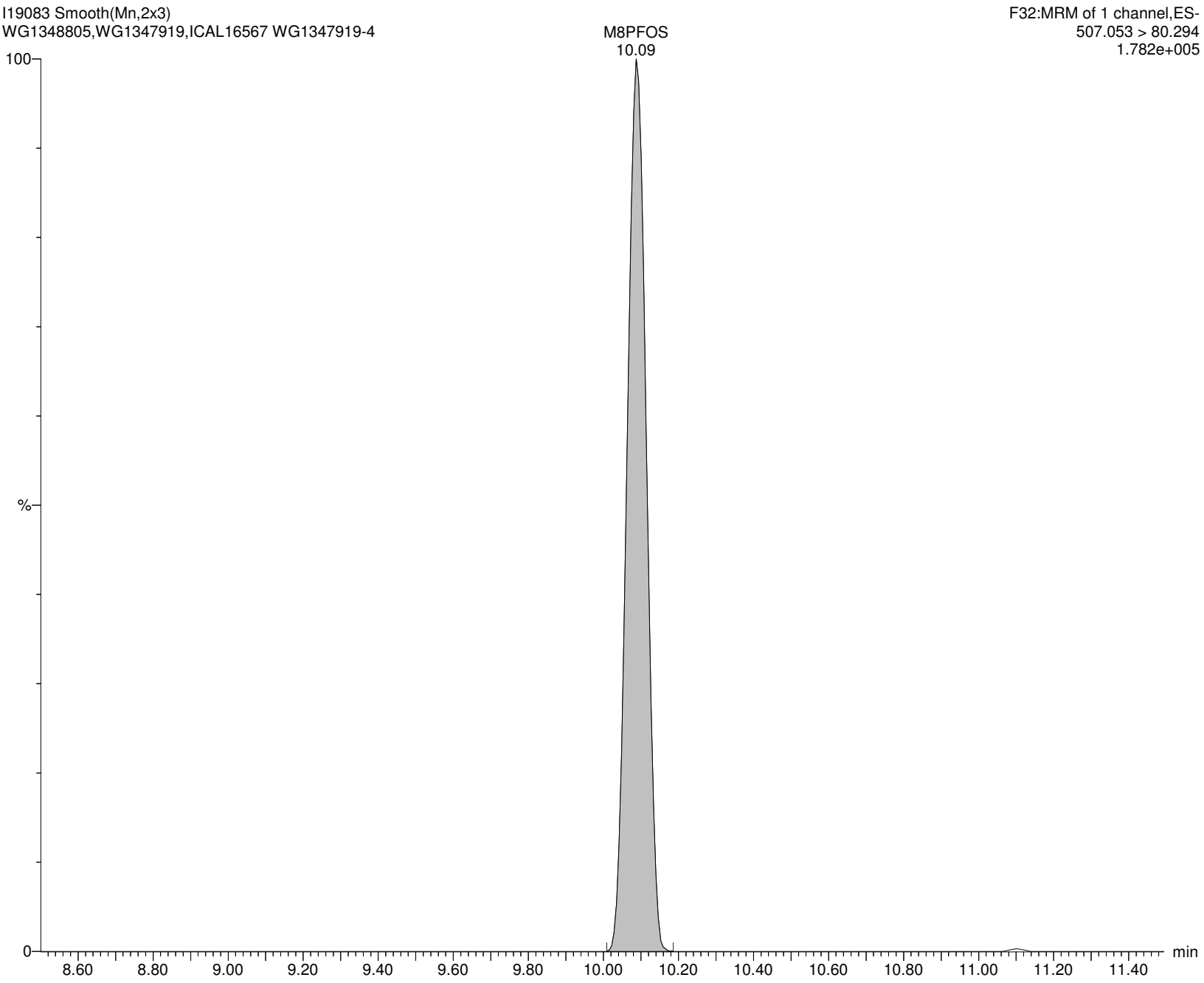

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Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,6
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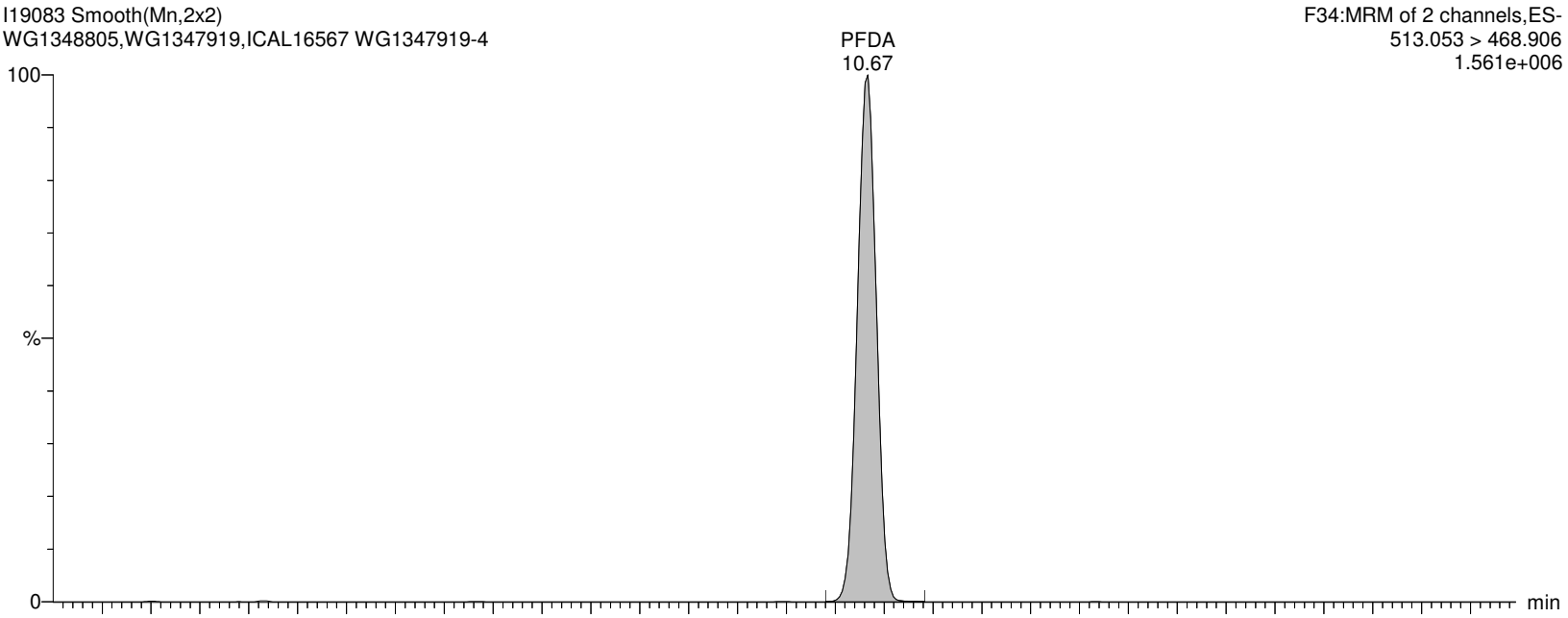

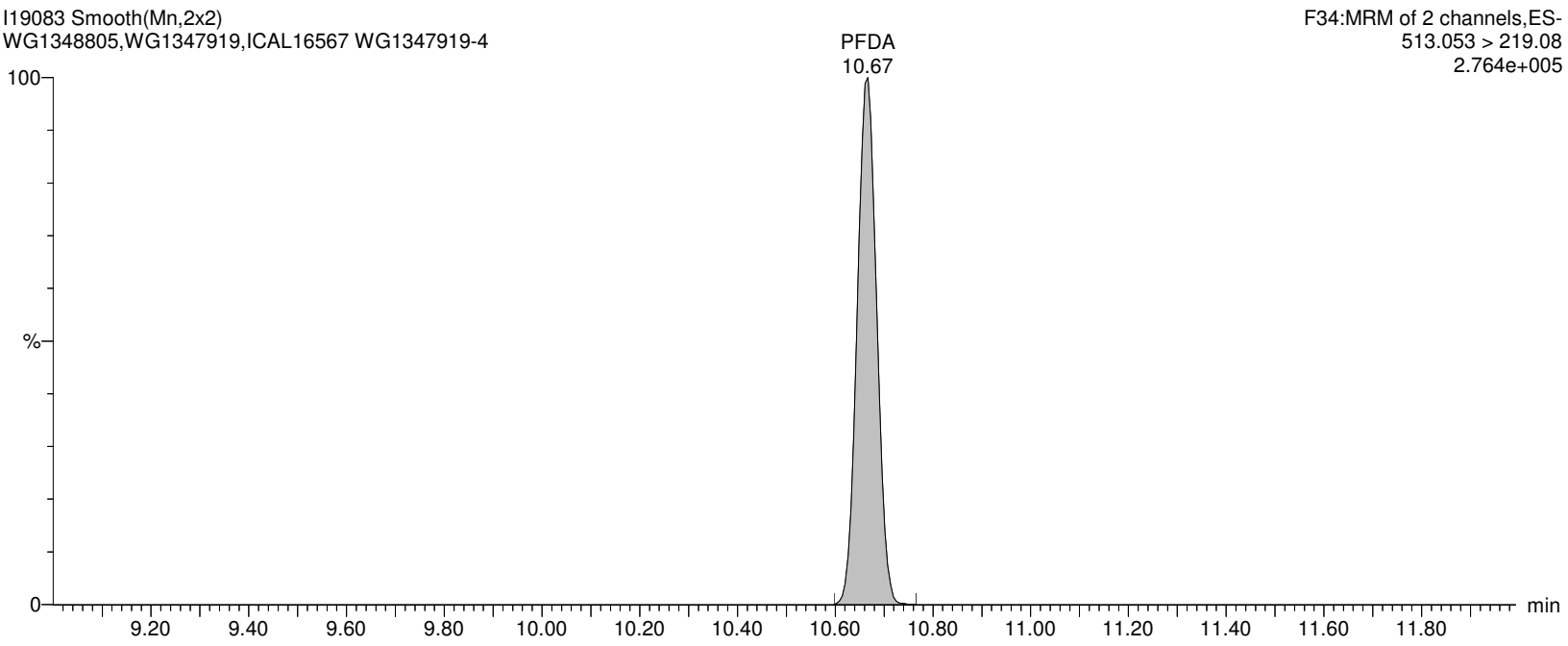

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
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Vial: 1:C,6
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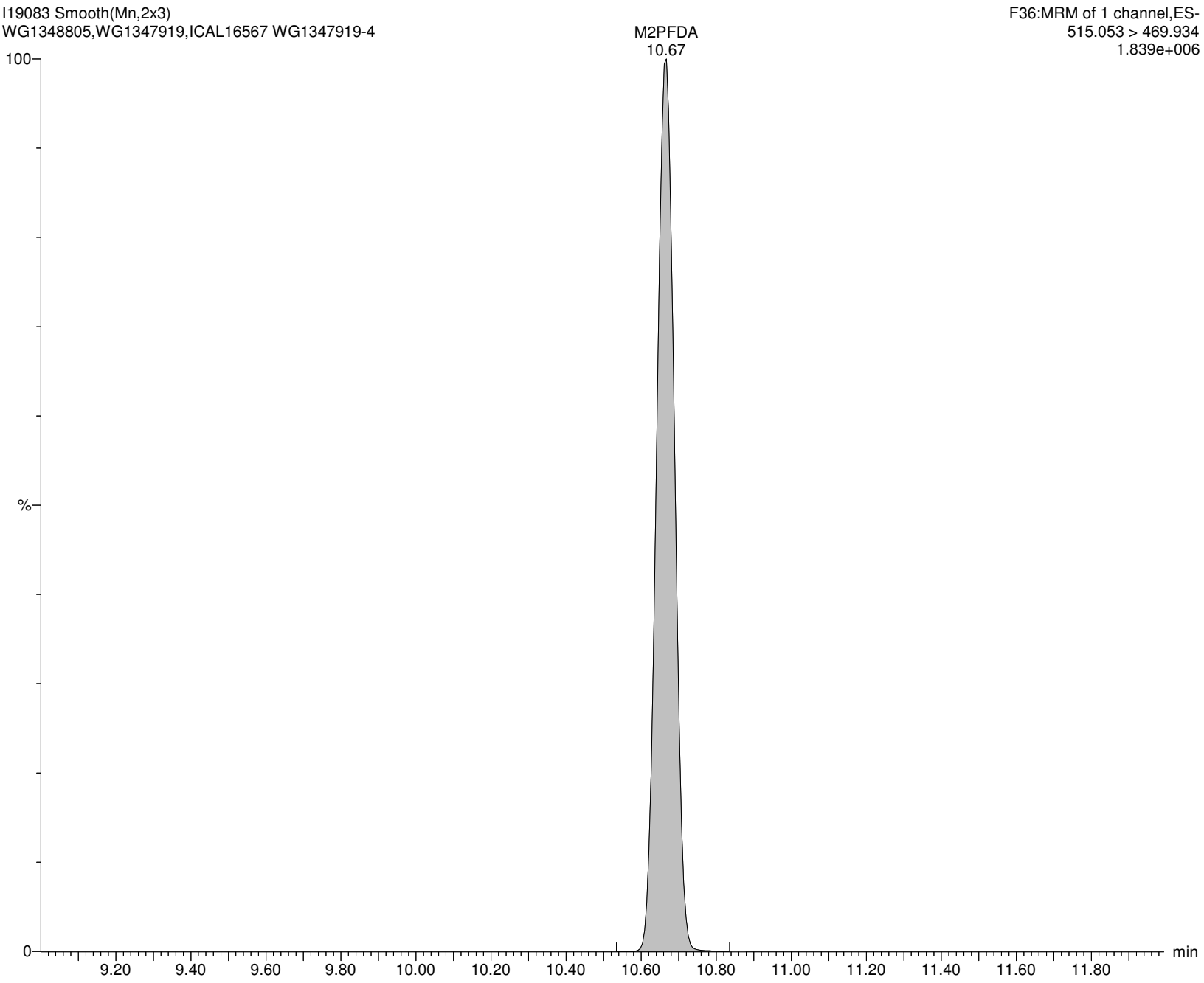

all concentration units in (ng/mL)

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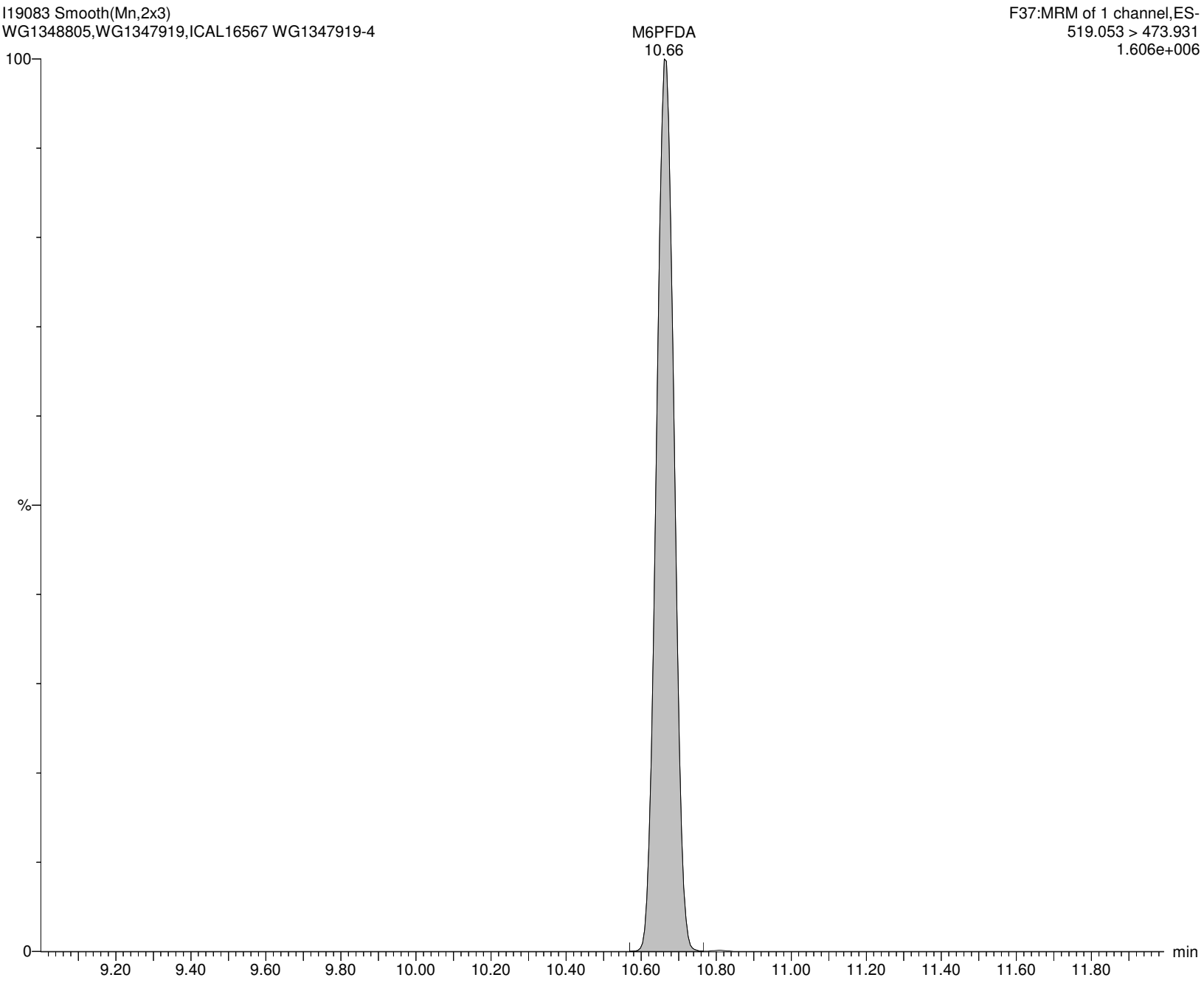

all concentration units in (ng/mL)

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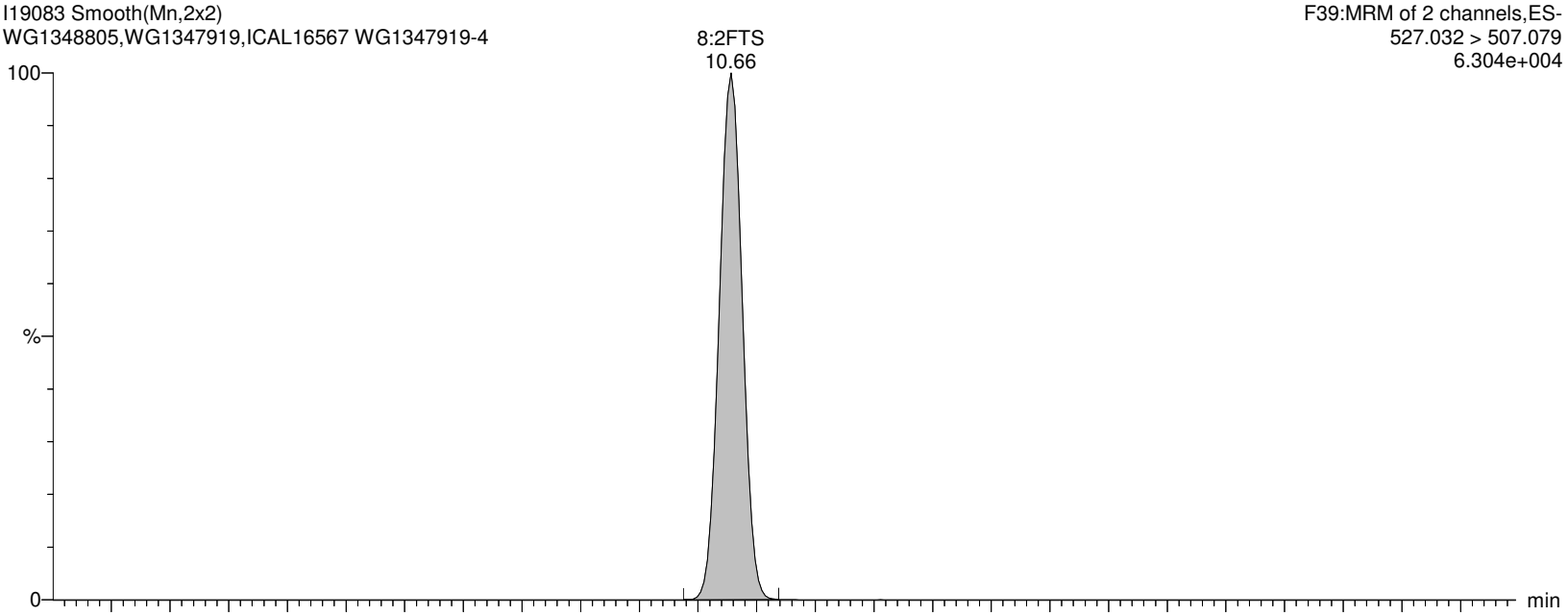
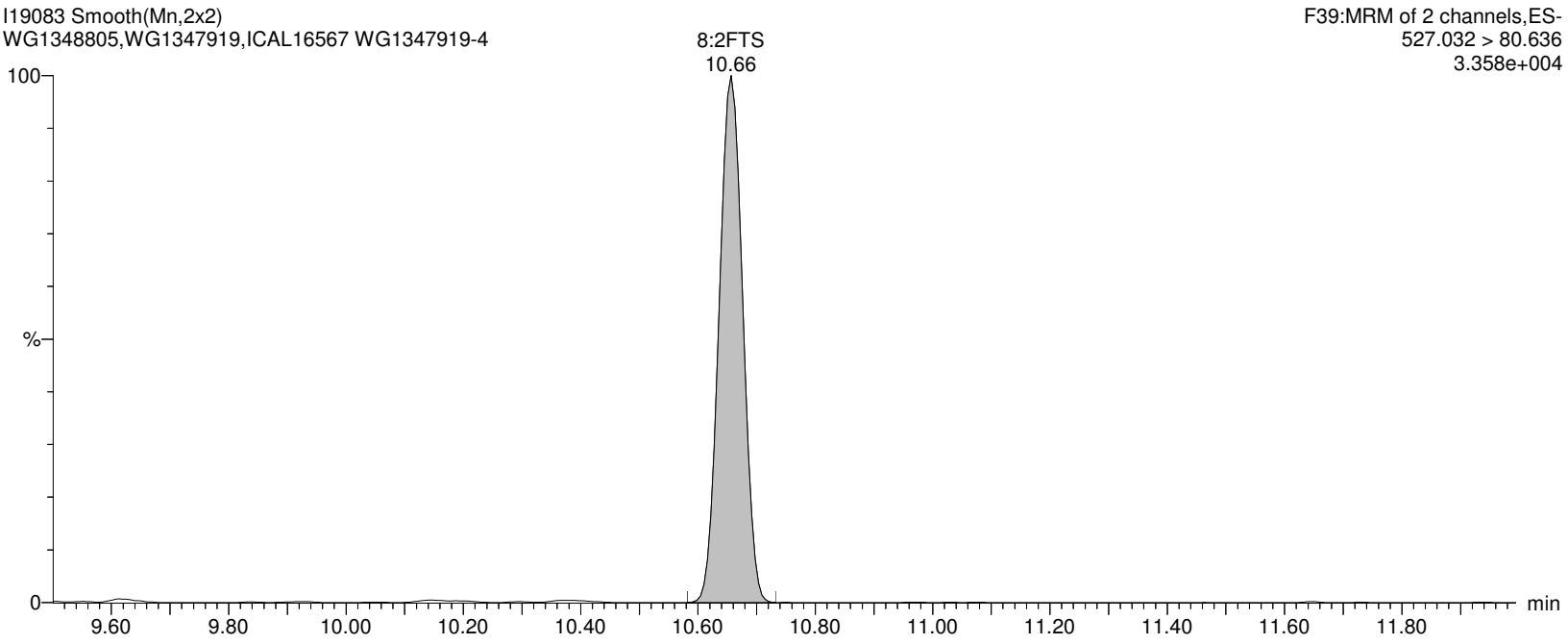
8:2FTS





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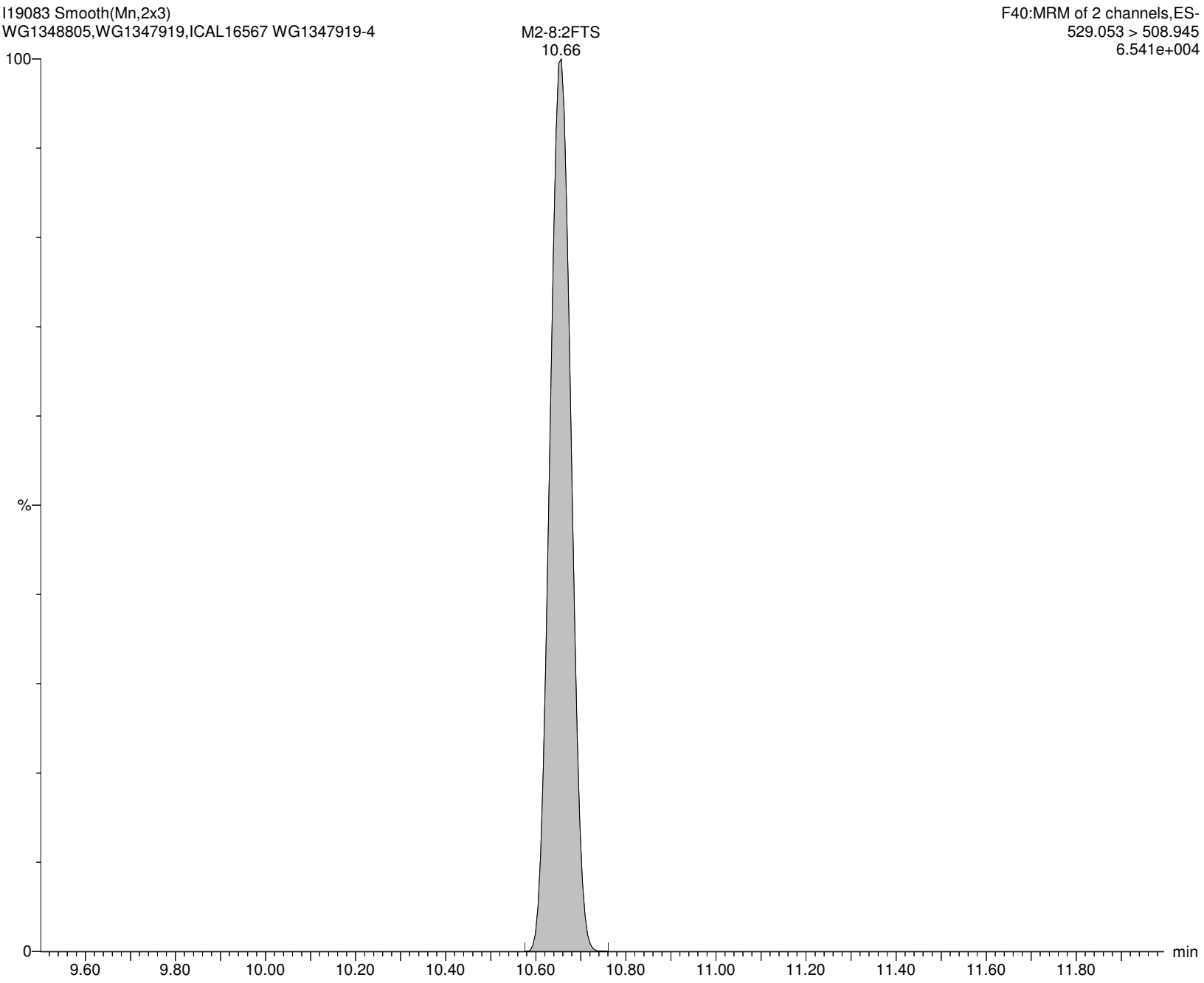

all concentration units in (ng/mL)

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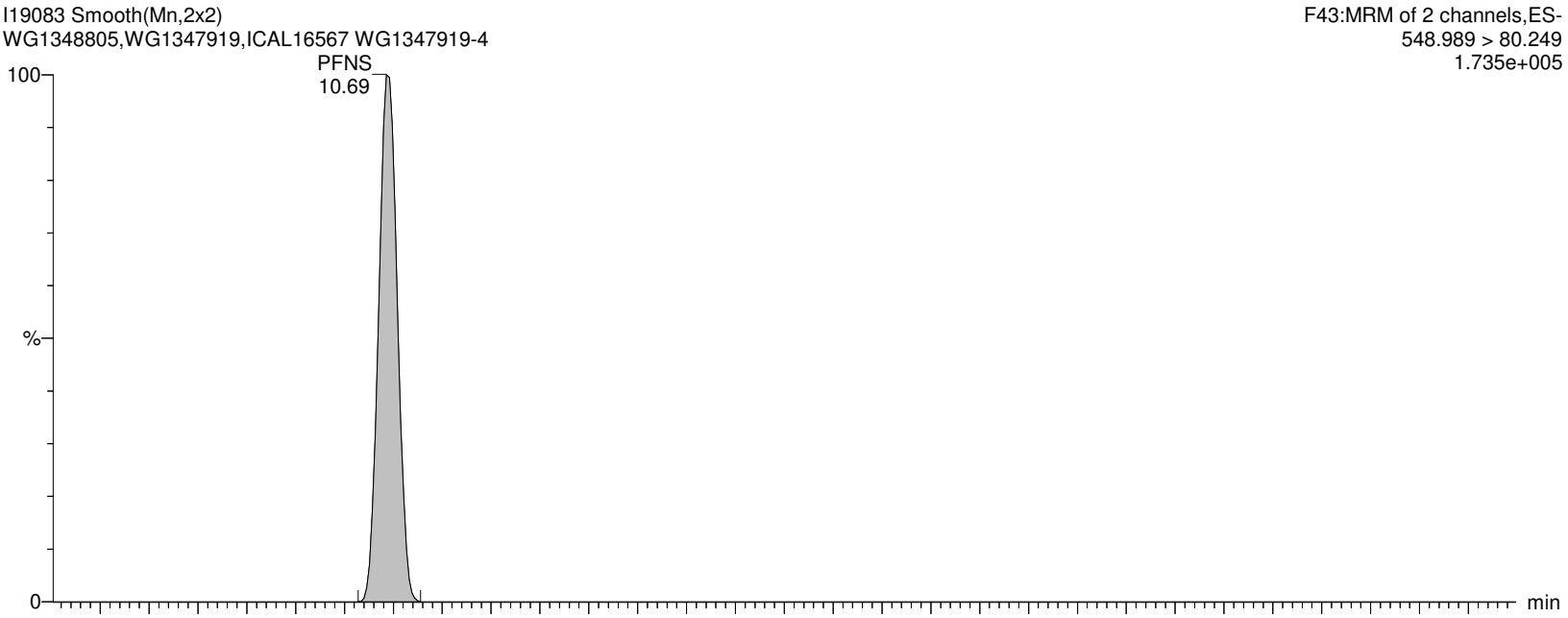

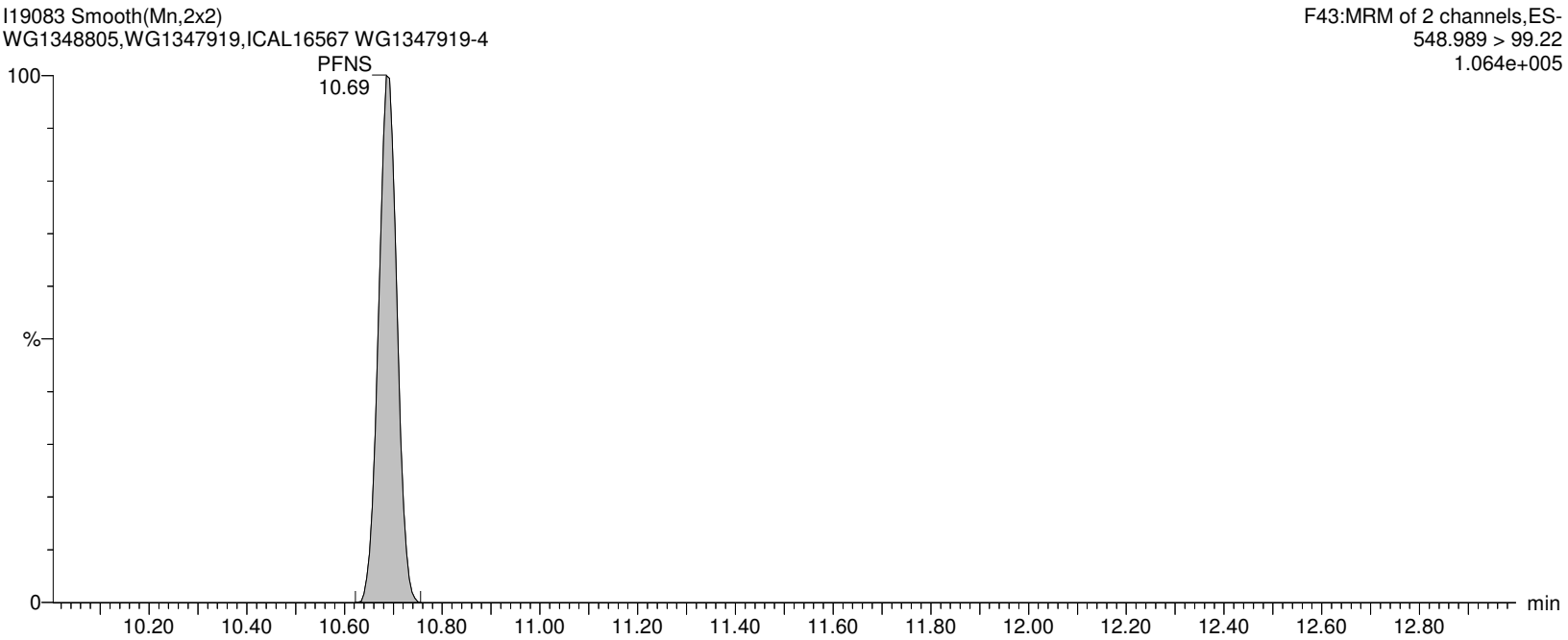

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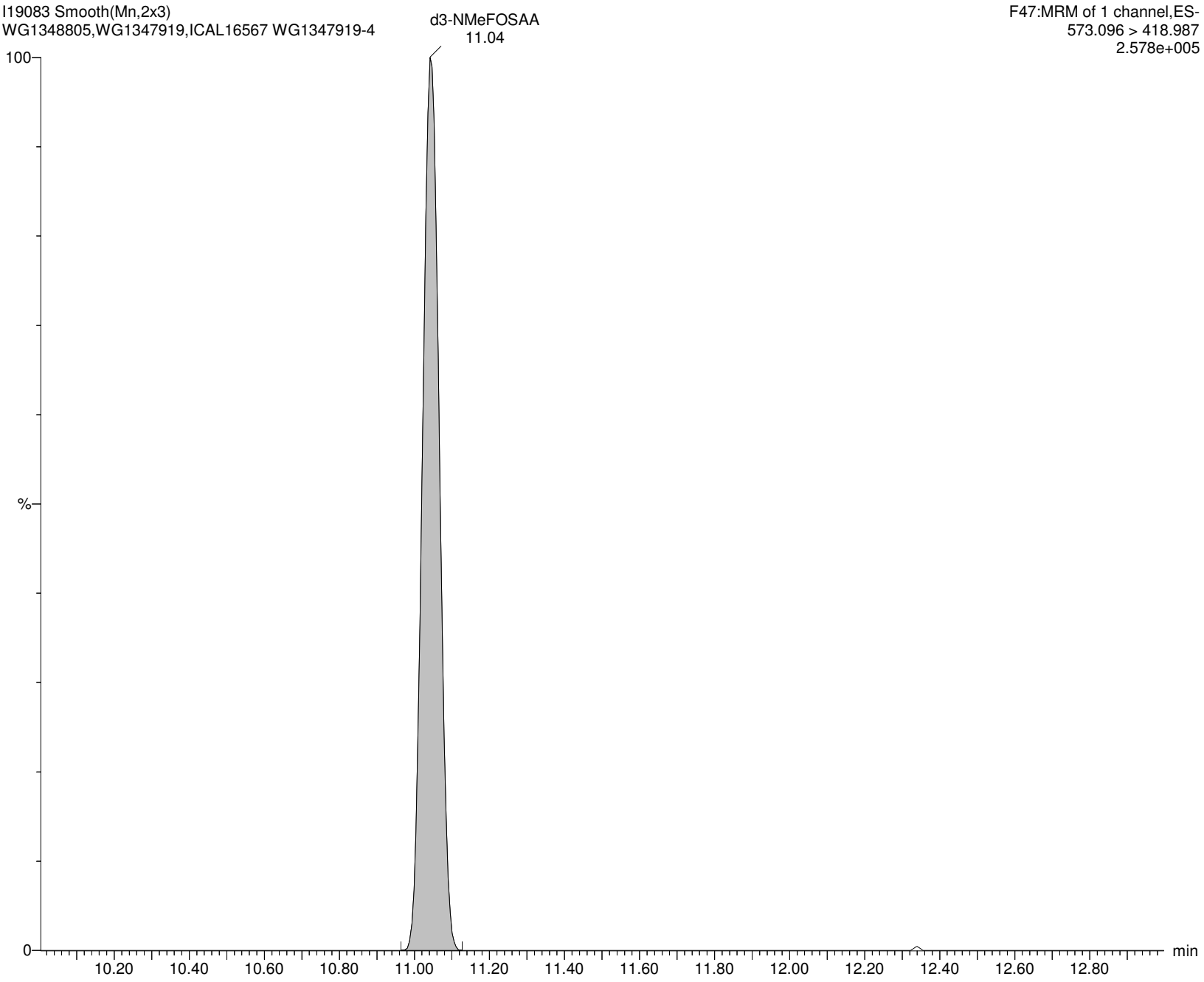

all concentration units in (ng/mL)

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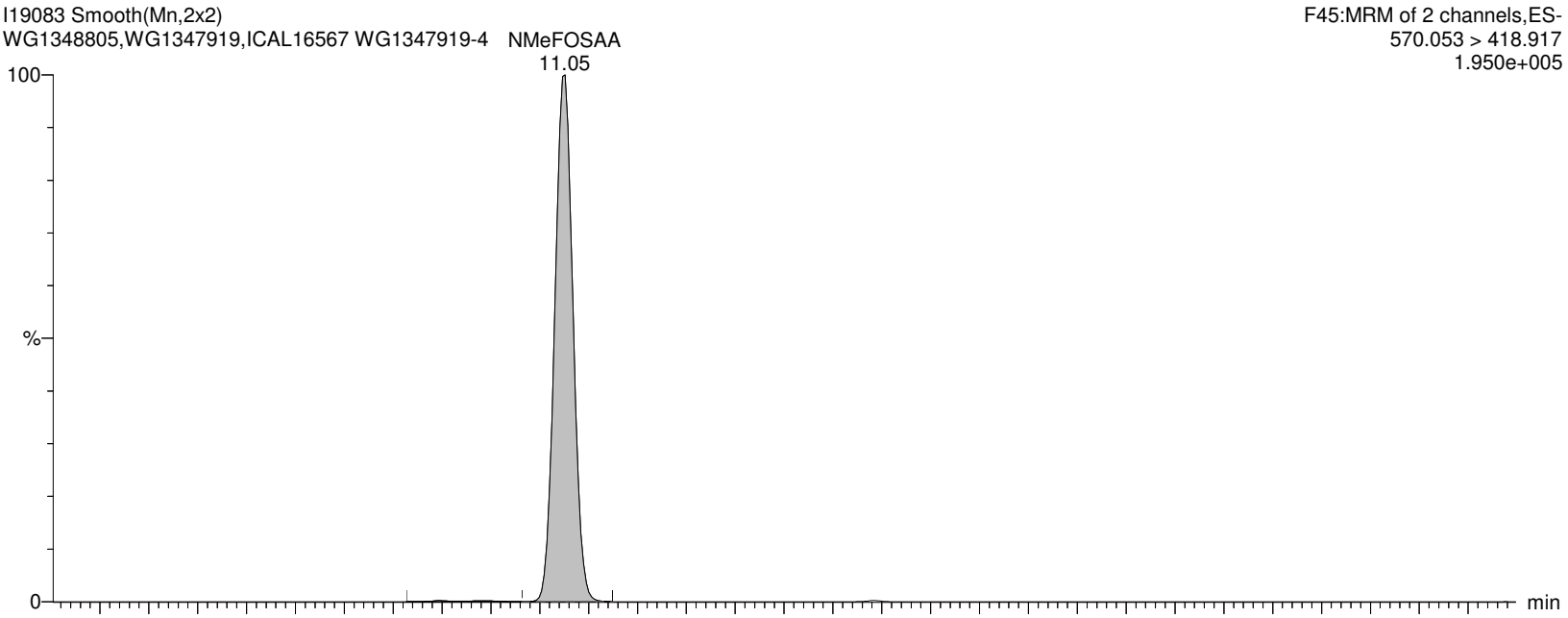

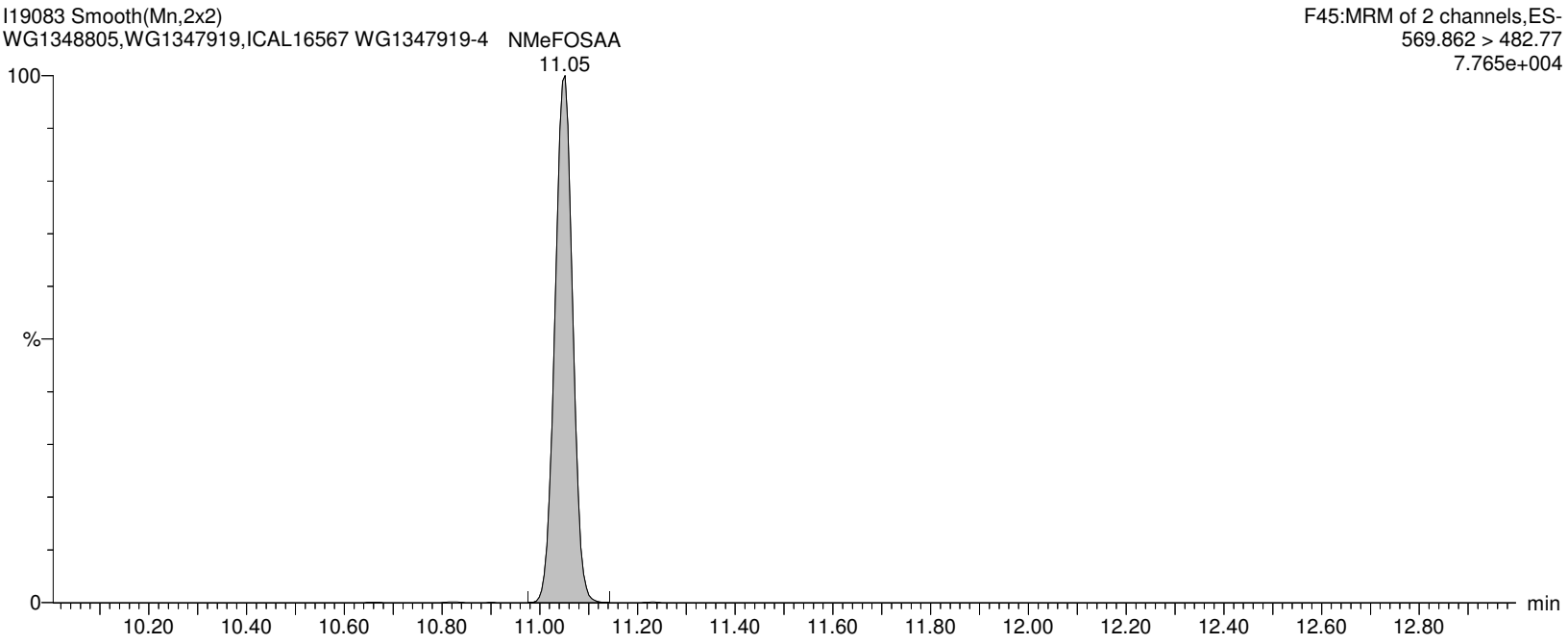

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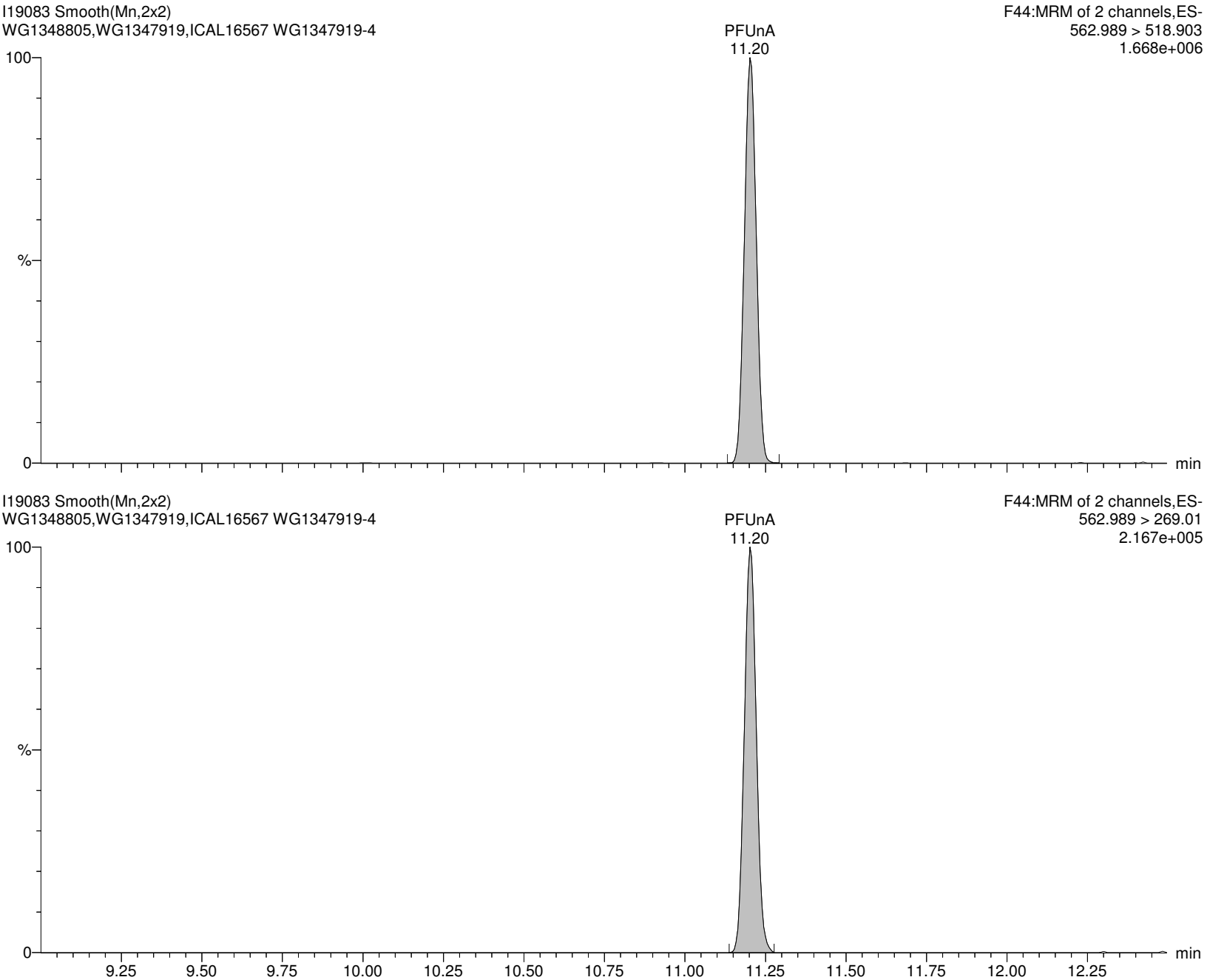

all concentration units in (ng/mL)

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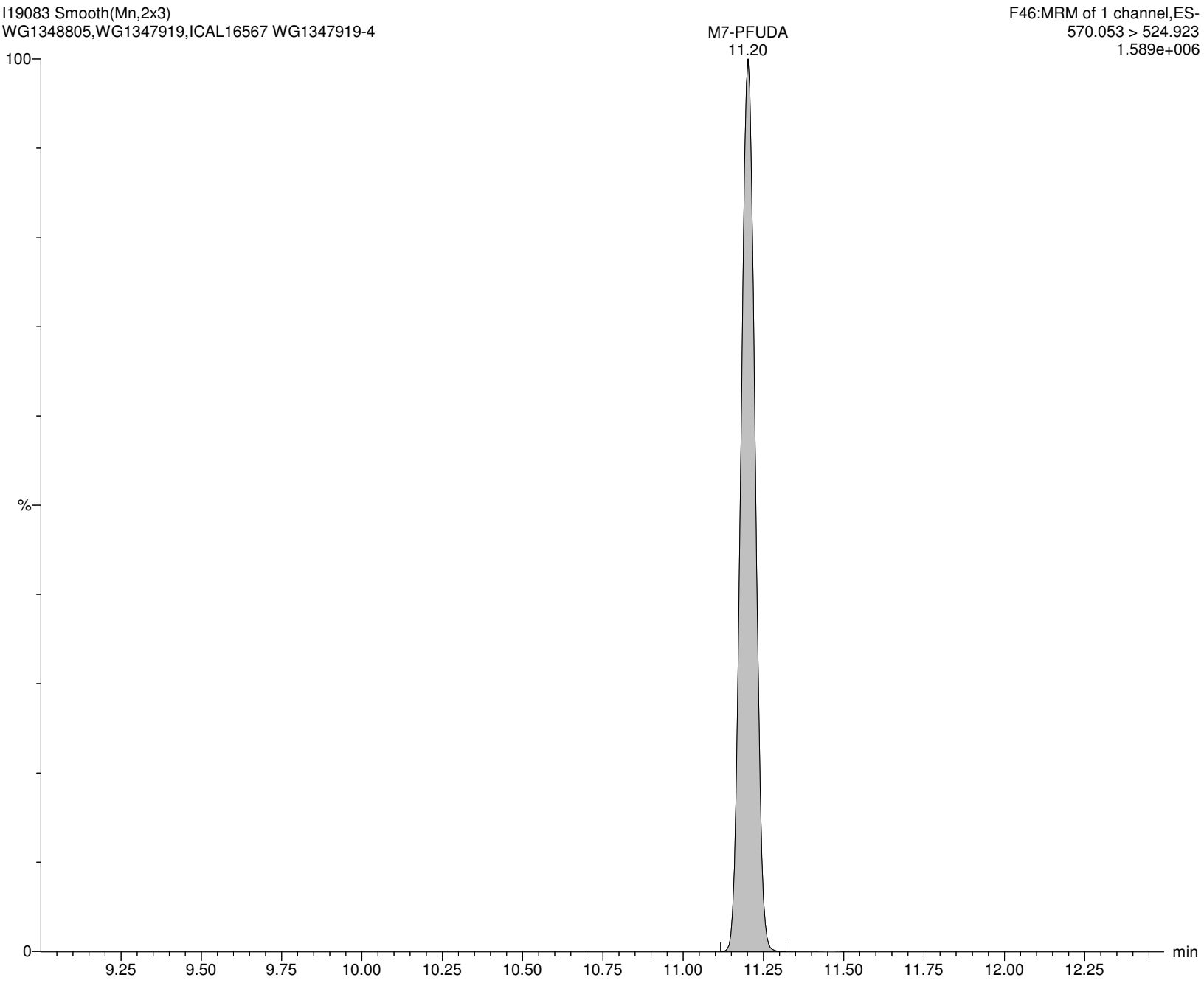

all concentration units in (ng/mL)

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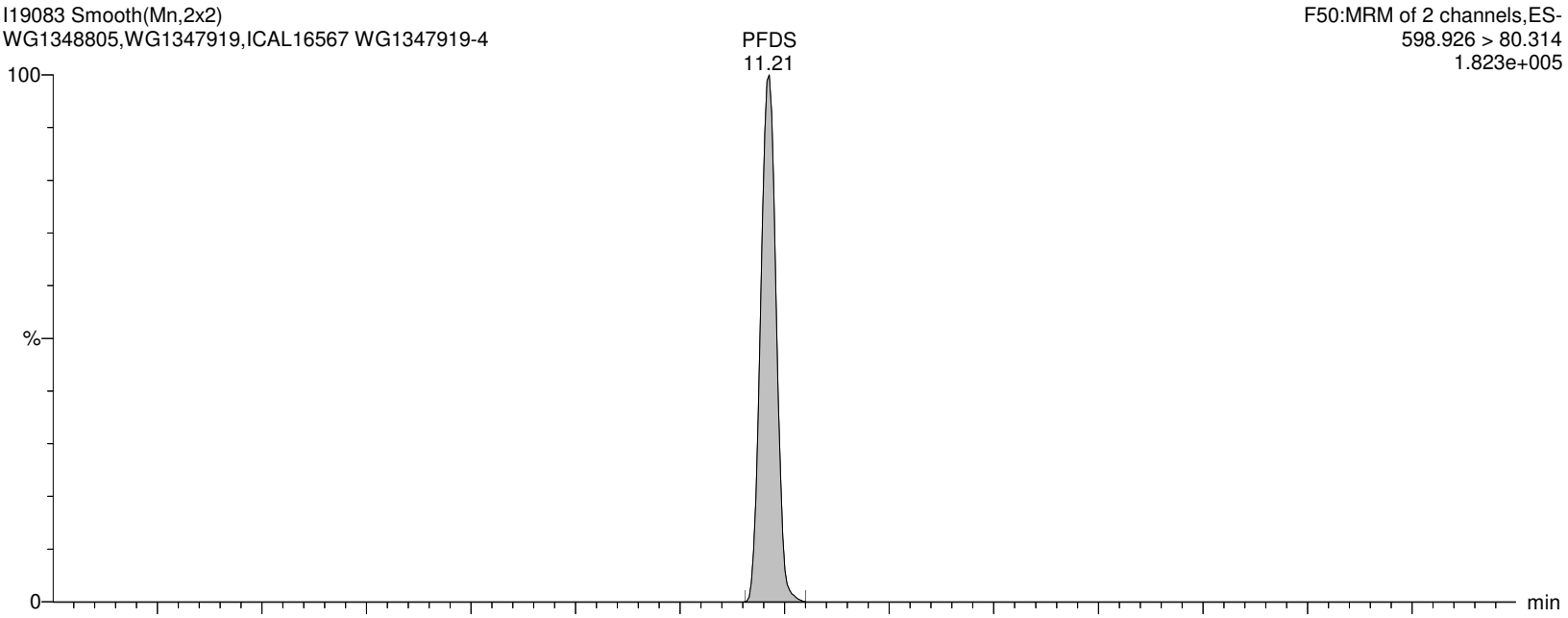

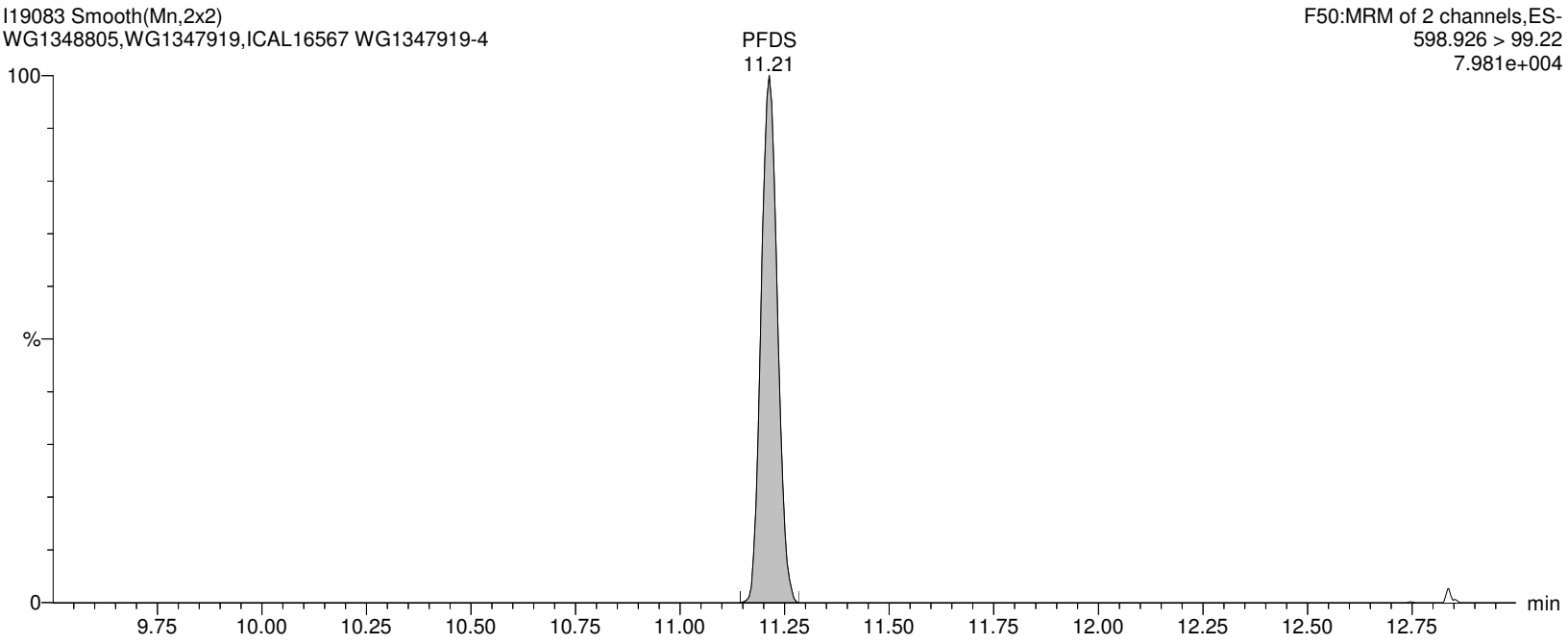

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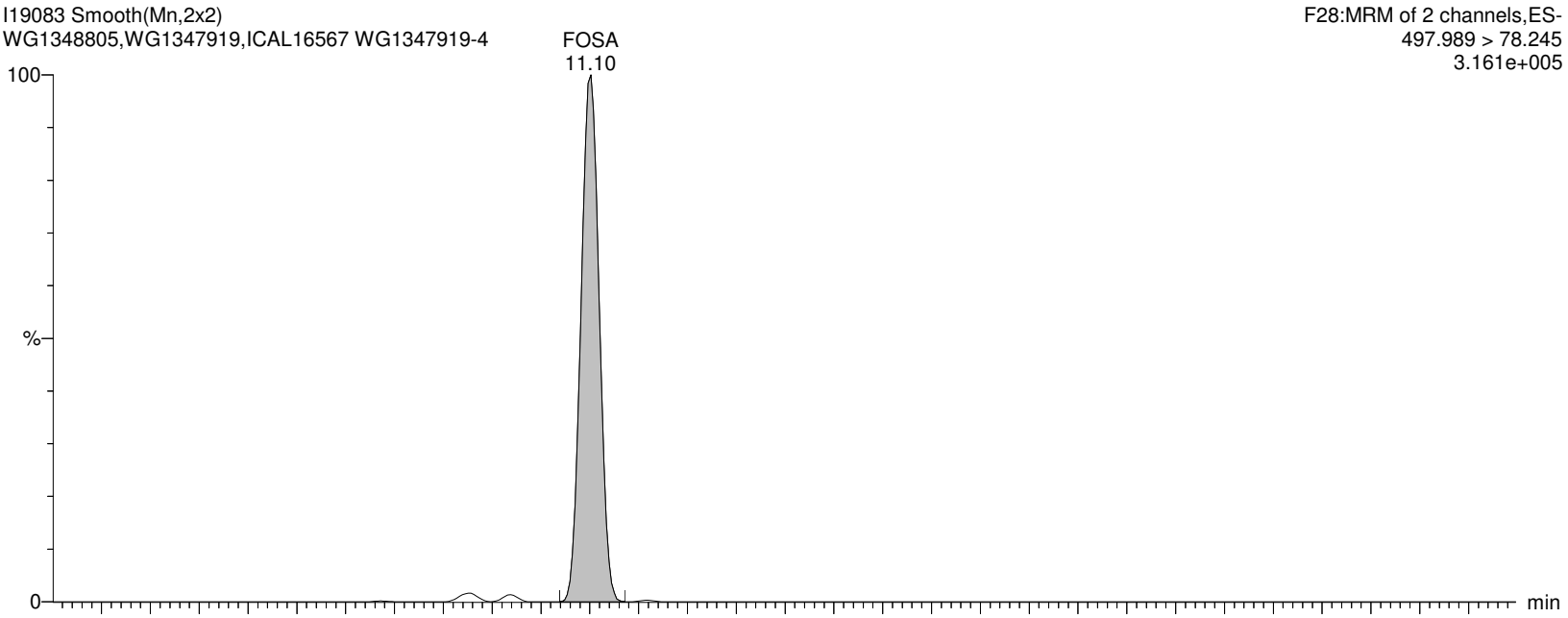

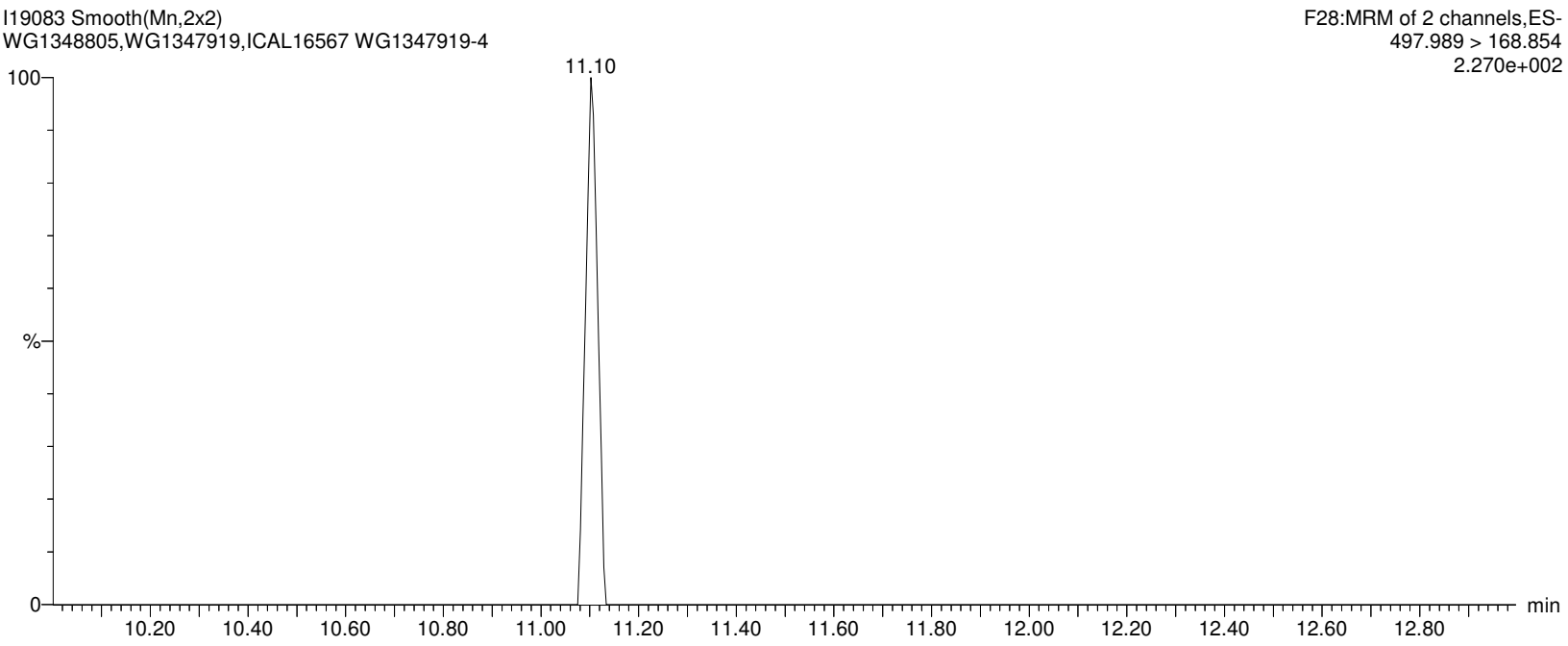

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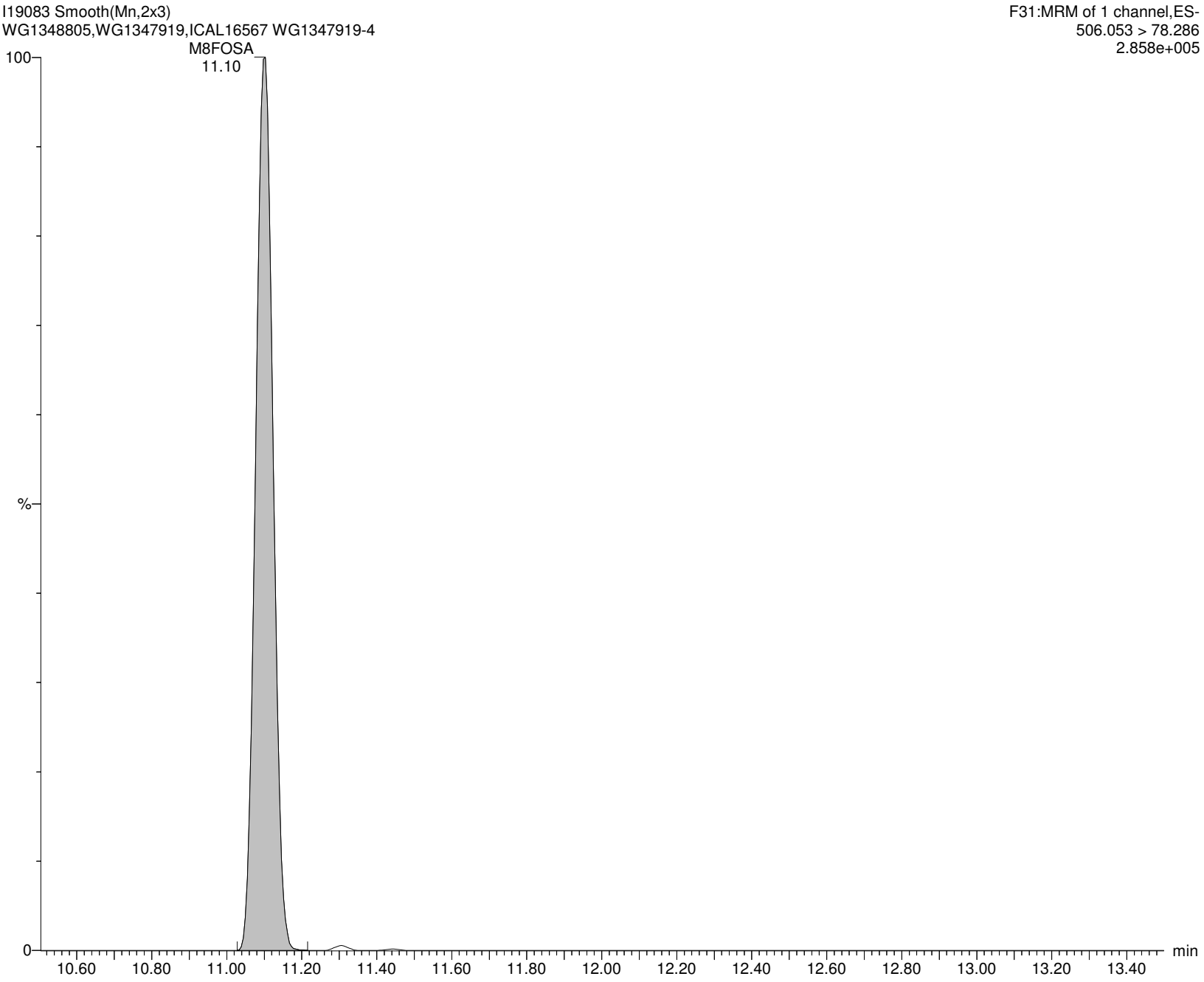

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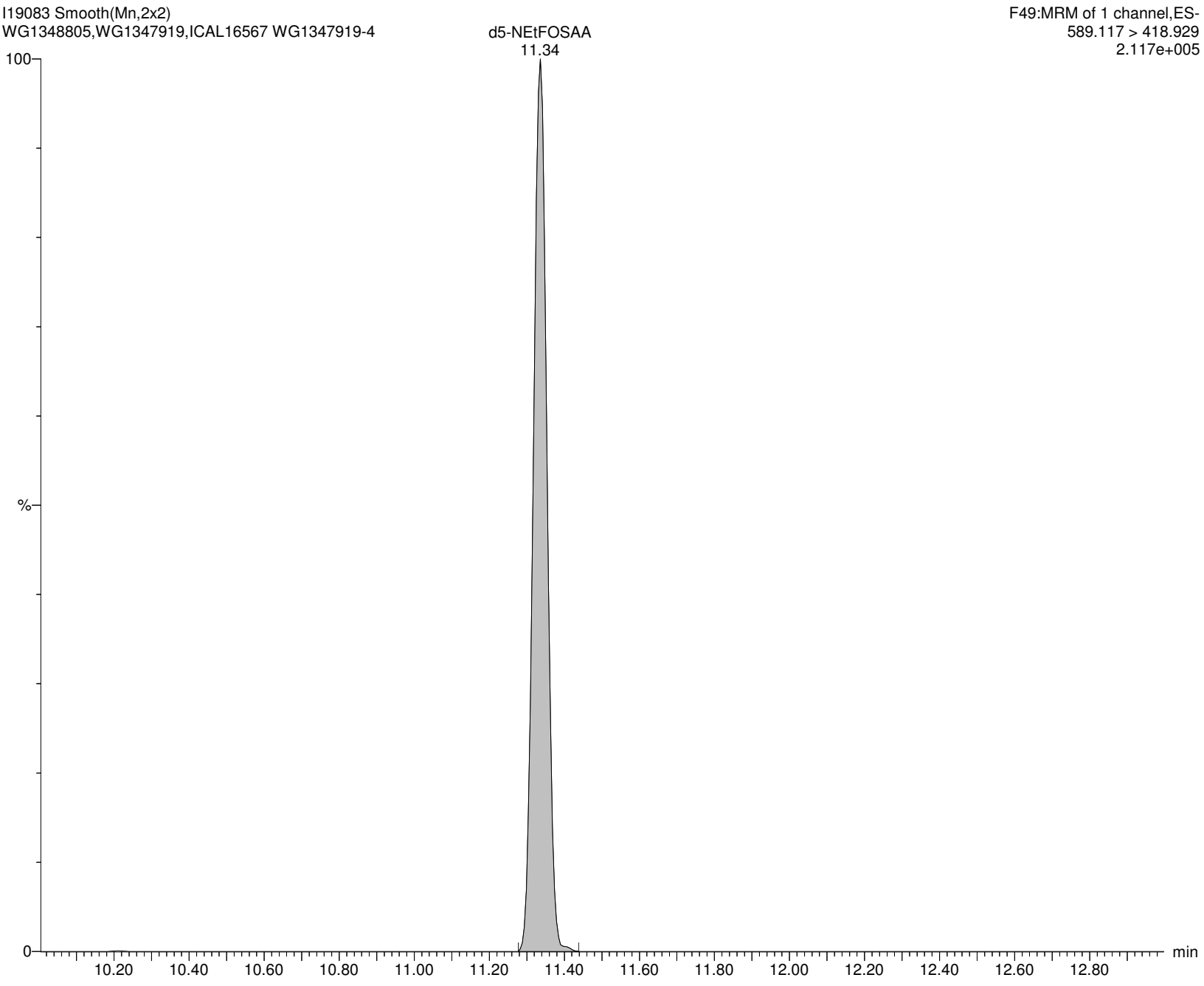
d5-NEtFOSAA



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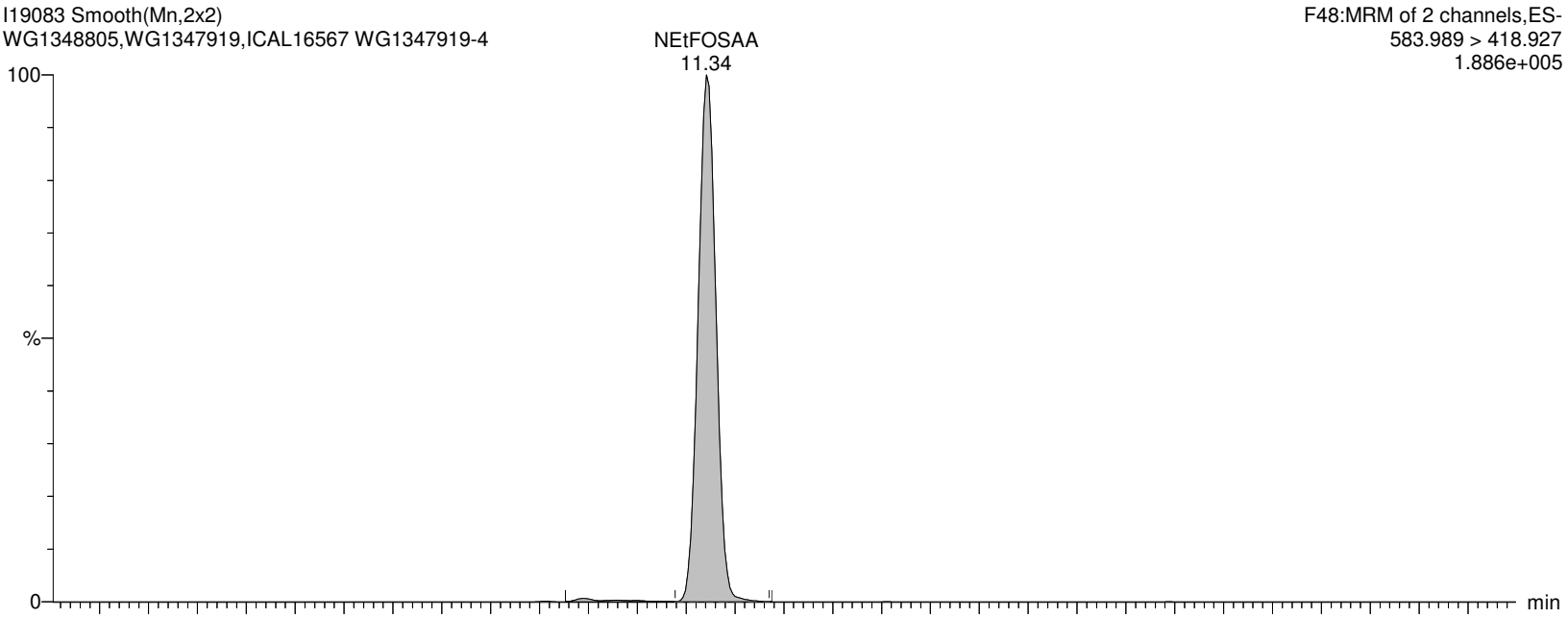

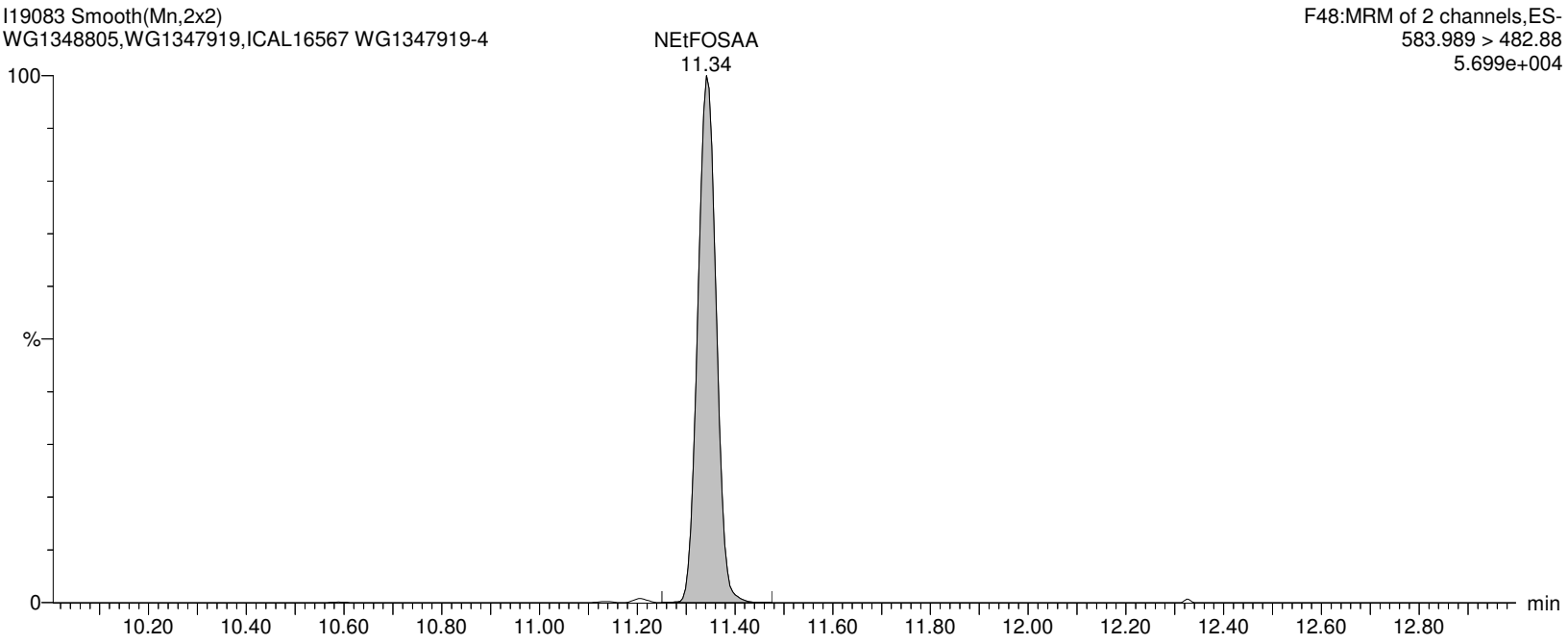

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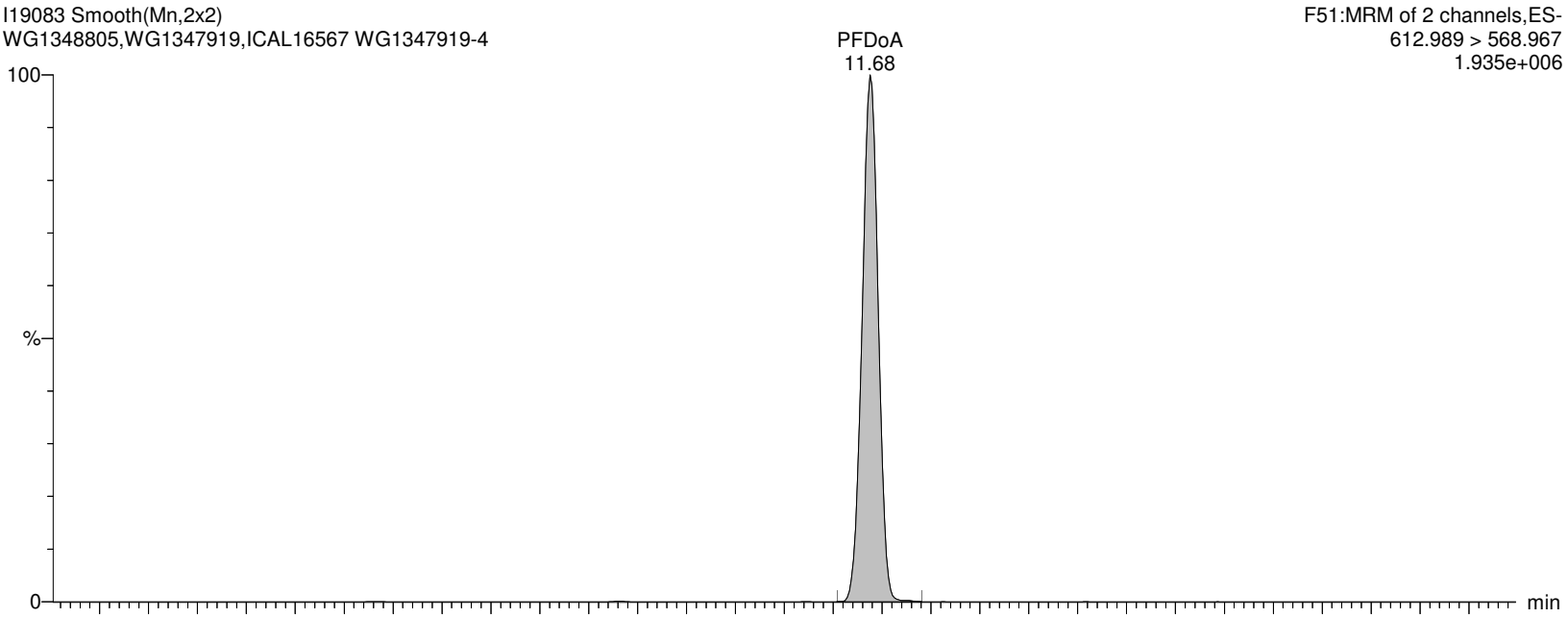

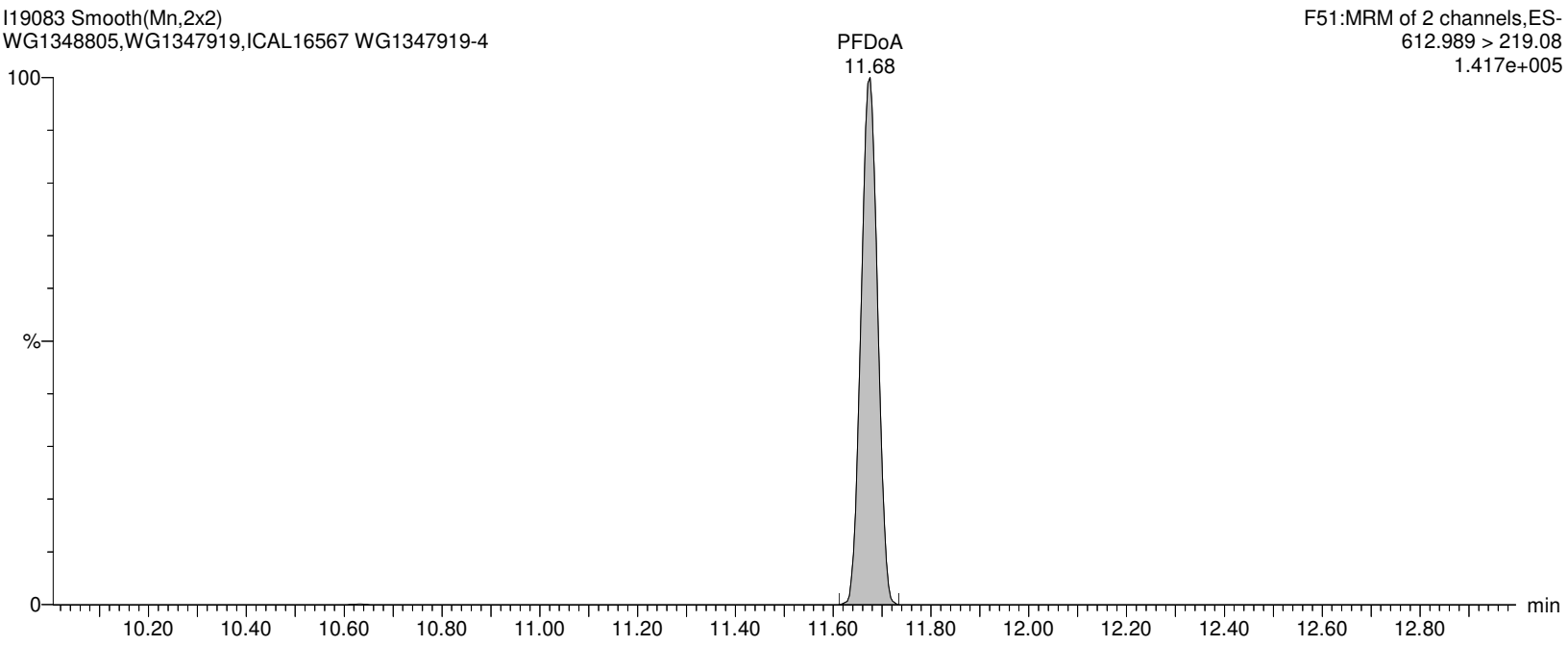

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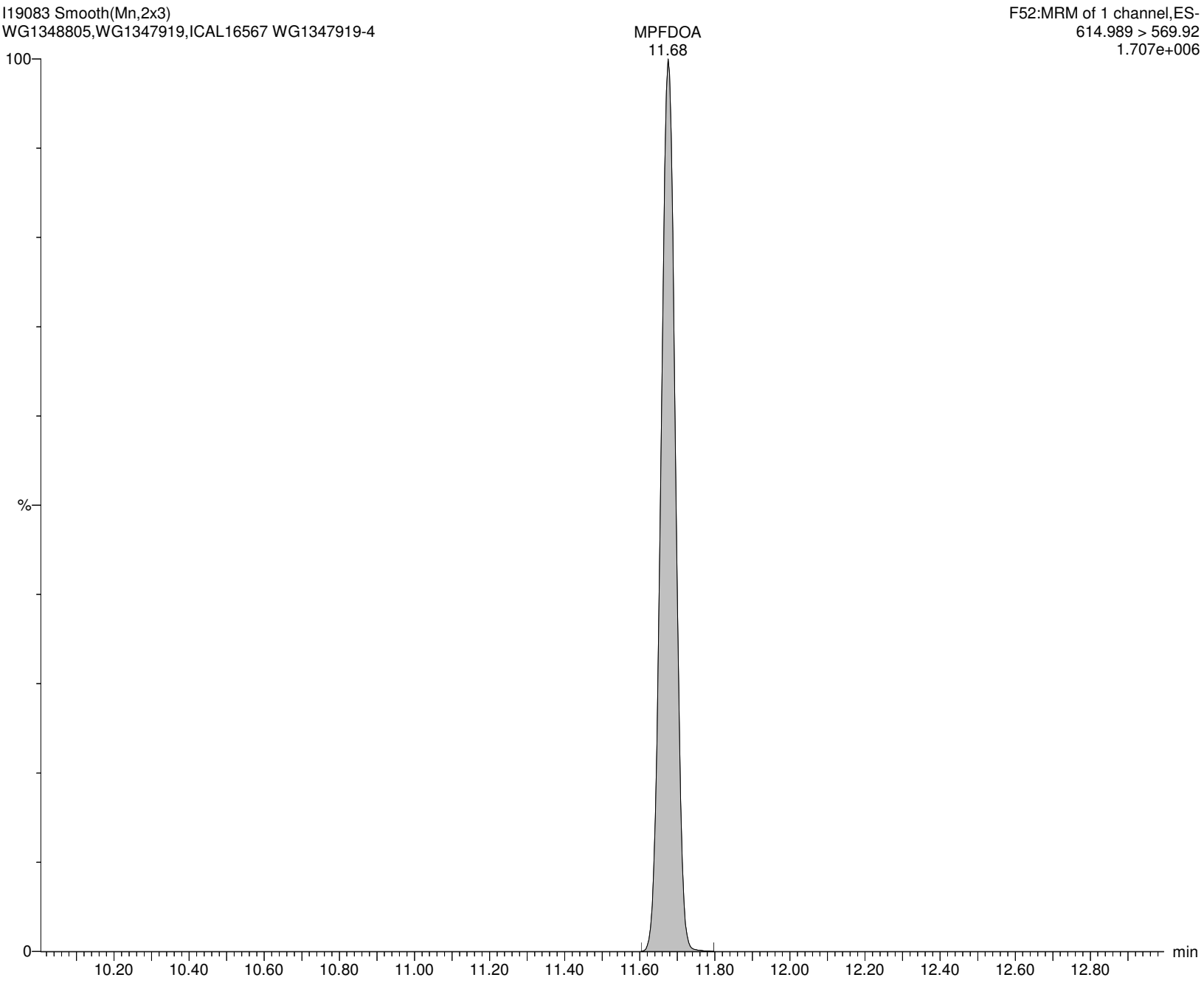
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
Printed: Tuesday, March 17, 2020 11:22:15 Eastern Daylight Time

Name: I19083
ID: WG1347919-4
Date: 09-Mar-2020
Time: 16:46:25
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

MPFDOA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
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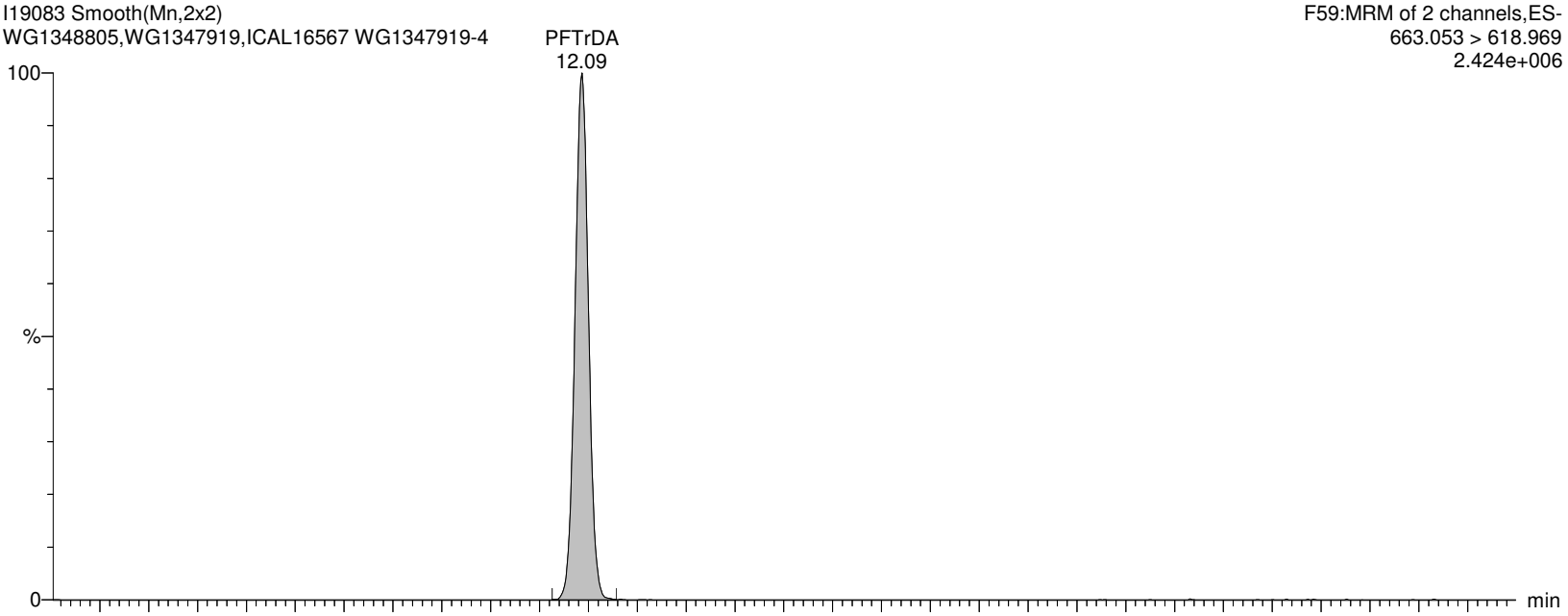
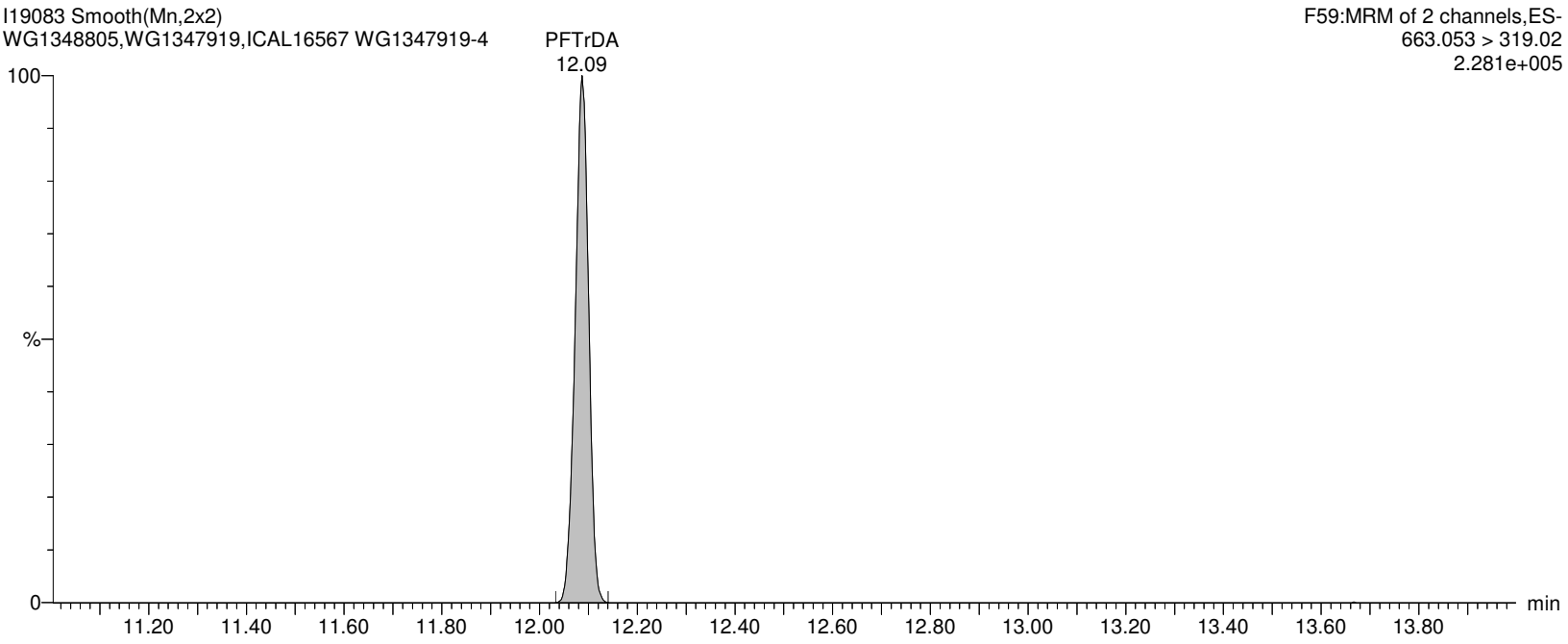
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFTrDA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
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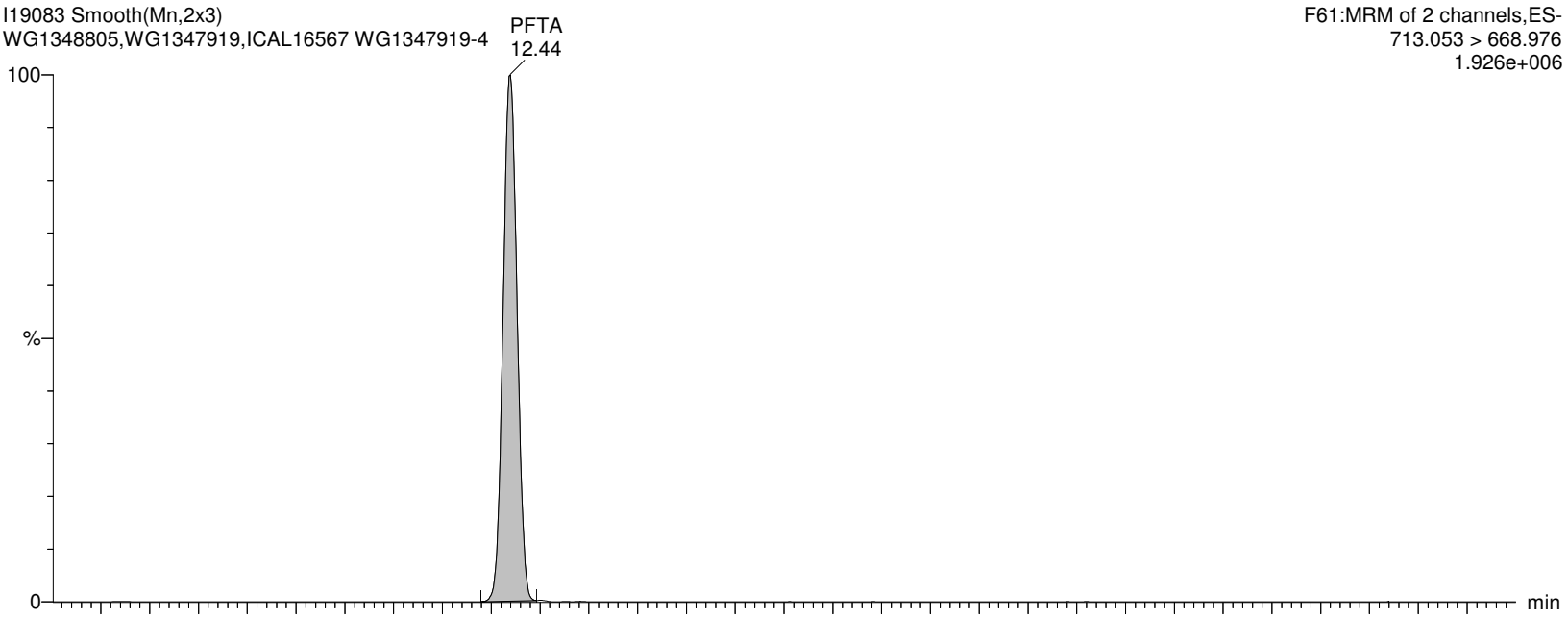
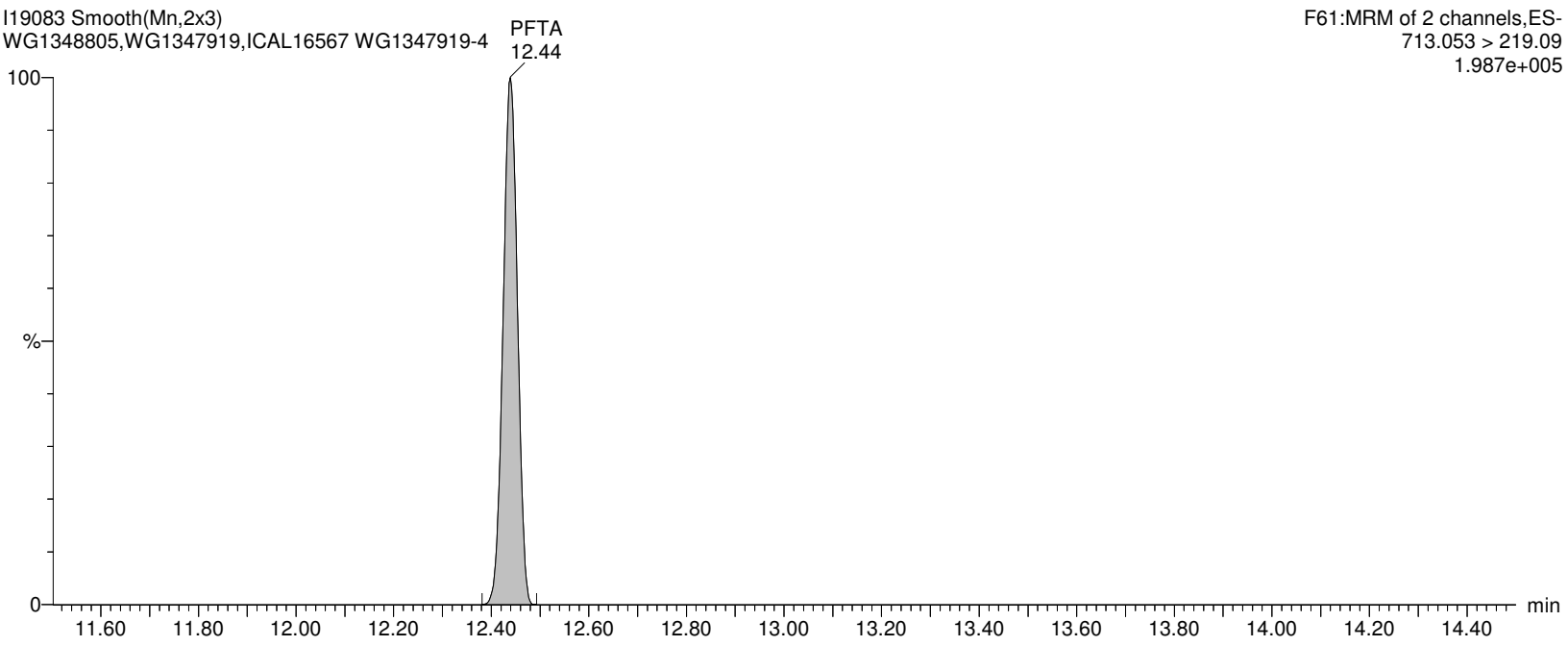
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFTA





all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\200309_537ISO.PRO\Data\WG1348805A.qld
Last Altered: Tuesday, March 17, 2020 11:10:13 Eastern Daylight Time
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Name: I19083
ID: WG1347919-4
Date: 09-Mar-2020
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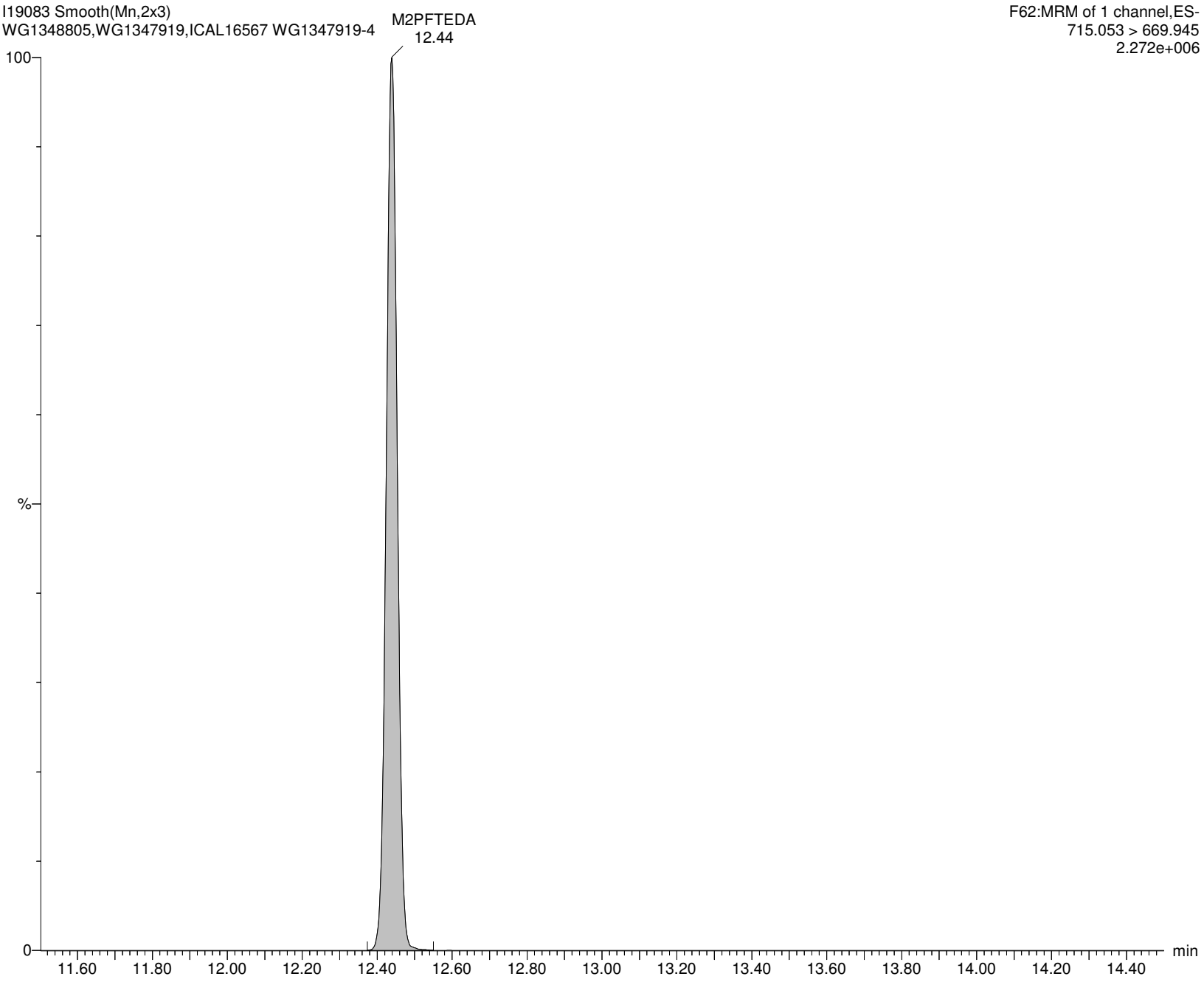
Description: WG1348805,WG1347919,ICAL16567
User: LCMS01:JW
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEA0276
Inlet Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\LCMS_537_ISO_MeOH
Tune Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\190709_TUNE.IPR
MS Method Name: C:\MassLynx\Data\200309_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2PFTEDA



all concentration units in (ng/mL)

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 17 2020, 02:23 pm

Work Group: WG1348805 for Department: 32 GC/MS - Semivolatiles

Created: 09-MAR-20 Due: Operator: SG

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2009600-04	RINSEATE BLANK 2/25/2020	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0316	0318	S0	537ISET
L2009693-01	FIELD BLANK 1	S	A2-537-ISOTOPE	WATER	DONE	U	0318	0320	S0	Plastic-T.25
L2009693-03	PUMP-2	S	A2-537-ISOTOPE	WATER	DONE	U	0318	0320	S0	Plastic-T.25
L2009693-04	PUMP-3	S	A2-537-ISOTOPE	WATER	DONE	U	0318	0320	S0	Plastic-T.25
L2009738-01	S03040K2	S	A2-NH-537-ISOTOPE	DW	SENT	U	0317	0318	S0	537ISET
L2009793-01	MW-213	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0318	0318	S0	537ISET
L2009793-02	MW-214	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0318	0318	S0	537ISET
L2009793-03	FB	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0318	0318	S0	537ISET
L2010072-01	SYS-EFF_030520	S	A2-537-ISOTOPE	WATER	DONE	U	0319	0319	S0	537ISET
WG1347919-4	Matrix Spike	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1347919-4	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1347919-5	Duplicate Sample	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1347919-5	Duplicate Sample	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1347920-1	Laboratory Method Bl	S	A2-NH-537-ISOTOPE	DW	SEC	U				
WG1347920-2	Laboratory Control S	S	A2-NH-537-ISOTOPE	DW	SEC	U				
WG1347920-3	LCS Duplicate	S	A2-NH-537-ISOTOPE	DW	SEC	U				
WG1348805-1	Continuing Calibrati	S	A2-NH-537-ISOTOPE	DW	DONE	U				
WG1348805-1	Continuing Calibrati	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1348805-1	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1348805-2	Continuing Calibrati	S	A2-NH-537-ISOTOPE	DW	DONE	U				
WG1348805-2	Continuing Calibrati	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1348805-2	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1348805-3	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1348805-3	Continuing Calibrati	S	A2-NH-537-ISOTOPE	DW	DONE	U				
WG1348805-3	Continuing Calibrati	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1348805-4	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DONE	U				
WG1348805-4	Continuing Calibrati	S	A2-NH-537-ISOTOPE	DW	DONE	U				
WG1348805-4	Continuing Calibrati	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1348805-5	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1348805-5	Continuing Calibrati	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1348805-5	Continuing Calibrati	S	A2-NH-537-ISOTOPE	DW	DACQ	U				
WG1348805-6	Continuing Calibrati	S	A2-537-ISOTOPE	WATER	DACQ	U				
WG1348805-6	Continuing Calibrati	S	A2-NH-537-ISOTOPE	DW	DACQ	U				
WG1348805-6	Continuing Calibrati	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				

Comments:

WG1347919-4	L2009793-01
WG1347919-5	L2009793-02
WG1347920-3	WG1347920-2

	Vial	File Name	File Text	Sample ID
1	---	---	IS LOT#LC_537_ISO_ISTD_191117	SURROGATE LOT# LC_537_ISO_SURR_191116
2	1:A,1	I13432	MeOH BLANK	MeOH BLANK
3	1:A,1	I13433	MeOH BLANK	MeOH BLANK
4	1:A,2	I13434	WG1310082,,537_190904_1	IA2-537STD0.5
5	1:A,3	I13435	WG1310082,,537_190904_2	IA2-537STD1.0
6	1:A,4	I13436	WG1310082,,537_190904_3	IA2-537STD5.0
7	1:A,5	I13437	WG1310082,,537_190904_4	IA2-537STD10.0
8	1:A,6	I13438	WG1310082,,537_190904_5	IA2-537STD50.0
9	1:A,7	I13439	WG1310082,,537_190904_6	IA2-537STD125
10	1:A,8	I13440	WG1310082,,537_190904_7	IA2-537STD150
11	1:B,1	I13441	WG1310082,,537_190904_8	IA2-537STD250
12	1:B,2	I13442	WG1310082,,537_190904_9	IA2-537STD500
13	1:A,1	I13443	MeOH BLANK	MeOH BLANK
14	1:A,1	I13444	MeOH BLANK	MeOH BLANK
15	1:A,1	I13445	MeOH BLANK	MeOH BLANK
16	1:B,3	I13446	WG1310082,,537ISO_190904	CA2-537STD010
17	1:B,4	I13447	WG1310082,,537ISO_TECHSTD_190520A	TECHSTD_190520A

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
---	---	---	0.0	---	---	---
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	0.5	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	1.0	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	5.0	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	10.0	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	50.0	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	125	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	150	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	250	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Standard	500	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:JW

	Vial	File Name	File Text	Sample ID
1	---	----	IS LOT#_537_ISO_ISTD_200216	SURROGATE LOT#LC_537_ISO_SURR_200213
2	1:A,1	I18525	MeOH Blank	MeOH Blank
3	1:A,1	I18526	MeOH Blank	MeOH Blank
4	1:A,4	I18529	WG1345050,,537_200120_3	IA2-537STD5.0
5	1:A,5	I18530	WG1345050,,537_200120_4	IA2-537STD10.0
6	1:A,6	I18531	WG1345050,,537_200120_5	IA2-537STD50.0
7	1:A,7	I18532	WG1345050,,537_200120_6	IA2-537STD125
8	1:A,8	I18533	WG1345050,,537_200120_7	IA2-537STD150
9	1:B,1	I18534	WG1345050,,537_200120_8	IA2-537STD250
10	1:B,2	I18535	WG1345050,,537_200120_9	IA2-537STD500
11	1:B,5	I18539	WG1345050,,537_200120_1	IA2-537STD0.5
12	1:B,6	I18540	WG1345050,,537_200120_2	IA2-537STD1.0
13	1:B,4	I18542	WG1345050,,537ISO_TECHSTD_190520A	TECHSTD_190520A
14	1:B,7	I18543	WG1345050,,537ISO_ICV_200120	CA2-537STD010

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
---	---	---	0.0	---	---	---
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	5	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	10	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	50	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	125	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	150	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	250	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	500	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	0.5	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Standard	1	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:JW
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:JW

	Vial	File Name	File Text	Sample ID
1	---	----	IS LOT#_537_ISO_ISTD_2000304	SURROGATE LOT#LC_537_ISO_SURR_200303
2	1:A,1	I19066	MeOH Blank	MeOH Blank
3	1:A,1	I19067	MeOH Blank	MeOH Blank
4	1:A,1	I19068	MeOH Blank	MeOH Blank
5	1:A,2	I19069	WG1348805,WG1346657,ICAL16567,537ILOW	WG1348805-1,537ILOW
6	1:B,1	I19070	WG1348805,WG1347919,ICAL16567	WG1347919-1
7	1:B,2	I19071	WG1348805,WG1346657,ICAL16567	WG1346657-2R
8	1:B,3	I19072	WG1348805,WG1346657,ICAL16567	WG1346657-3R
9	1:B,4	I19073	WG1348805,WG1347919,ICAL16567	L2009693-01
10	1:B,5	I19074	WG1348805,WG1347919,ICAL16567	L2009693-02
11	1:B,6	I19075	WG1348805,WG1347919,ICAL16567	L2009693-03
12	1:B,7	I19076	WG1348805,WG1347919,ICAL16567	L2009693-04
13	1:B,8	I19077	WG1348805,WG1347919,ICAL16567	L2009600-04
14	1:C,1	I19078	WG1348805,WG1347919,ICAL16567	L2009793-01
15	1:C,2	I19079	WG1348805,WG1347919,ICAL16567	L2009793-02
16	1:C,3	I19080	WG1348805,WG1347919,ICAL16567	WG1347919-5
17	1:C,4	I19081	WG1348805,WG1347919,ICAL16567	WG1347919-2
18	1:C,5	I19082	WG1348805,WG1347919,ICAL16567	WG1347919-3
19	1:C,6	I19083	WG1348805,WG1347919,ICAL16567	WG1347919-4
20	1:A,3	I19084	WG1348805,WG1347919,ICAL16567,537IMED	WG1348805-2,537IMED
21	1:A,1	I19085	MeOH Blank	MeOH Blank
22	1:C,7	I19086	WG1348805,WG1347919,ICAL16567	L2009793-03
23	1:C,8	I19087	WG1348805,WG1347919,ICAL16567	L2009823-01
24	1:D,1	I19088	WG1348805,WG1347919,ICAL16567	L2009823-02
25	1:D,2	I19089	WG1348805,WG1347919,ICAL16567	L2009823-03
26	1:D,3	I19090	WG1348805,WG1347919,ICAL16567	L2009823-04
27	1:D,4	I19091	WG1348805,WG1347919,ICAL16567	L2009823-05
28	1:D,5	I19092	WG1348805,WG1347919,ICAL16567	L2009823-06
29	1:D,6	I19093	WG1348805,WG1347919,ICAL16567	L2009823-07
30	1:D,7	I19094	WG1348805,WG1347919,ICAL16567	L2009823-08
31	1:D,8	I19095	WG1348805,WG1347919,ICAL16567	L2009823-09
32	1:A,2	I19096	WG1348805,WG1347546,ICAL16567,537ILOW	WG1348805-3,537ILOW
33	1:E,1	I19097	WG1348805,WG1347919,ICAL16567	L2009824-01
34	1:E,2	I19098	WG1348805,WG1347919,ICAL16567	L2010072-01
35	1:E,3	I19099	WG1348805,WG1347920,ICAL16567	L2009738-01
36	1:A,3	I19100	WG1348805,WG13474920,ICAL16567,537IMED	WG1348805-4,537IMED
37	1:A,4	I19101	ACN FLUSH	ACN FLUSH
38	1:A,1	I19102	MeOH FLUSH	MeOH FLUSH

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
---	---	---	0.0	---	---	---
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	0.5	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	0.5	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	LCMS_537_ISO_MeOH	3.0	QC	10	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	ACN_MeOH_Flush_30	3.0	Analyte	---	LCMS01:SG
537ISO28_M_SPAN_DOD	190709_TUNE	MeOH_Flush_30	3.0	Analyte	---	LCMS01:SG

	Vial	File Name	File Text	Sample ID
1	---	---	IS LOT#LC_537_ISO_ISTD_200226	SURROGATE LOT# LC_537_ISO_SURR_200227
2	1:A,1	I20392	MeOH BLANK	MeOH BLANK
3	1:A,1	I20393	MeOH BLANK	MeOH BLANK
4	1:A,1	I20394	MeOH BLANK	MeOH BLANK
5	1:A,1	I20395	MeOH BLANK	MeOH BLANK
6	1:A,2	I20396	WG1348954,WG1347622,ICAL16305,537ILOW	WG1348954-1,537ILOW
7	1:A,1	I20397	MeOH BLANK	MeOH BLANK
8	1:A,2	I20398	WG1348954,WG1347622,ICAL16305,537ILOW	WG1348954-1,537ILOW
9	1:B,1	I20399	WG1348954,WG1347622,ICAL16305	WG1347622-1
10	1:F,5	I20400	WG1348954,WG1347630,ICAL16305	WG1347630-1R
11	1:B,2	I20401	WG1348954,WG1347622,ICAL16305	L2009575-01
12	1:B,3	I20402	WG1348954,WG1347622,ICAL16305	L2009575-02
13	1:B,4	I20403	WG1348954,WG1347622,ICAL16305	WG1347622-5
14	1:B,5	I20404	WG1348954,WG1347622,ICAL16305	L2009575-03
15	1:B,6	I20405	WG1348954,WG1347622,ICAL16305	L2009575-04
16	1:B,7	I20406	WG1348954,WG1347622,ICAL16305	L2009586-01
17	1:B,8	I20407	WG1348954,WG1347622,ICAL16305	L2009586-04
18	1:C,1	I20408	WG1348954,WG1347622,ICAL16305	L2009586-07
19	1:C,2	I20409	WG1348954,WG1347622,ICAL16305	L2009586-10
20	1:C,3	I20410	WG1348954,WG1347622,ICAL16305	L2009586-13
21	1:C,4	I20411	WG1348954,WG1347622,ICAL16305	L2009586-16
22	1:C,5	I20412	WG1348954,WG1347622,ICAL16305	WG1347622-2
23	1:C,6	I20413	WG1348954,WG1347622,ICAL16305	WG1347622-3
24	1:C,7	I20414	WG1348954,WG1347622,ICAL16305	WG1347622-4
25	1:A,3	I20415	WG1348954,WG1347622,ICAL16305,537IMED	WG1348954-2,537IMED
26	1:A,4	I20416	ACN BLANK	ACN BLANK
27	1:A,1	I20417	MeOH BLANK	MeOH BLANK
28	1:C,8	I20418	WG1348954,WG1347969,ICAL16305	WG1347969-1
29	1:D,1	I20419	WG1348954,WG1347622,ICAL16305	L2009586-19
30	1:D,2	I20420	WG1348954,WG1347622,ICAL16305	L2009586-22
31	1:D,3	I20421	WG1348954,WG1347622,ICAL16305	L2009586-25
32	1:D,4	I20422	WG1348954,WG1347622,ICAL16305	L2009586-28
33	1:D,5	I20423	WG1348954,WG1347622,ICAL16305	L2009586-31
34	1:D,6	I20424	WG1348954,WG1347622,ICAL16305	L2009586-34
35	1:D,7	I20425	WG1348954,WG1347969,ICAL16305	L2009600-01
36	1:D,8	I20426	WG1348954,WG1347969,ICAL16305	L2009600-02
37	1:E,1	I20427	WG1348954,WG1347969,ICAL16305	WG1347969-5
38	1:E,2	I20428	WG1348954,WG1347969,ICAL16305	L2009600-03
39	1:E,3	I20429	WG1348954,WG1347969,ICAL16305	WG1347969-2
40	1:E,4	I20430	WG1348954,WG1347969,ICAL16305	WG1347969-3
41	1:E,5	I20431	WG1348954,WG1347969,ICAL16305	WG1347969-4
42	1:A,1	I20432	MeOH BLANK	MeOH BLANK
43	1:A,1	I20433	MeOH BLANK	MeOH BLANK
44	1:A,2	I20434	WG1348954,WG1347969,ICAL16305,537ILOW	WG1348954-3,537ILOW
45	1:E,6	I20435	WG1348954,WG1348193,ICAL16305	WG1348193-1
46	1:E,7	I20436	WG1348954,WG1347919,ICAL16305	WG1347919-1
47	1:E,8	I20437	WG1348954,WG1349088,ICAL16305	L2009824-01RE
48	1:F,1	I20438	WG1348954,WG1348193,ICAL16305	L2010015-01
49	1:F,2	I20439	WG1348954,WG1348193,ICAL16305	L2010015-02
50	1:F,3	I20440	WG1348954,WG1348193,ICAL16305	WG1348193-5
51	1:F,4	I20441	WG1348954,WG1348193,ICAL16305	WG1348193-2
52	1:F,5	I20442	WG1348954,WG1348193,ICAL16305	WG1348193-3
53	1:F,6	I20443	WG1348954,WG1348193,ICAL16305	WG1348193-4
54	1:A,3	I20444	WG1348954,WG1348193,ICAL16305,537IMED	WG1348954-4,537IMED
55	1:A,4	I20445	ACN BLANK	ACN BLANK
56	1:A,1	I20446	MeOH BLANK	MeOH BLANK
57	1:F,7	I20447	WG1348954,WG1349088,ICAL16305	WG1349088-1
58	2:A,1	I20448	WG1348954,WG1347919,ICAL16305	L2009823-01
59	2:A,2	I20449	WG1348954,WG1347919,ICAL16305	L2009823-02
60	2:A,3	I20450	WG1348954,WG1347919,ICAL16305	L2009823-03

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
---	---	---	0.0	---	---	---
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	0.5	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	0.5	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS

	Vial	File Name	File Text	Sample ID
61	2:A,4	I20451	WG1348954,WG1347919,ICAL16305	L2009823-05
62	2:A,5	I20452	WG1348954,WG1347919,ICAL16305	L2009823-06
63	2:A,6	I20453	WG1348954,WG1347919,ICAL16305	L2009823-08
64	2:A,7	I20454	WG1348954,WG1347919,ICAL16305	L2009823-09
65	2:A,8	I20455	WG1348954,WG1347919,ICAL16305	WG1347919-2
66	2:B,1	I20456	WG1348954,WG1347919,ICAL16305	WG1347919-3
67	1:A,2	I20457	WG1348954,WG1347969,ICAL16305,537ILOW	WG1348954-5,537ILOW
68	2:B,2	I20458	WG1348954,WG1349088,ICAL16305	WG1349088-2
69	2:B,3	I20459	WG1348954,WG1349088,ICAL16305	WG1349088-3
70	2:B,4	I20460	WG1348954,WG1347919,ICAL16305	L2009824-01
71	2:B,5	I20461	WG1348954,WG1347919,ICAL16305	L2009823-04
72	2:B,6	I20462	WG1348954,WG1347919,ICAL16305	L2009823-07
73	1:A,3	I20463	WG1348954,WG1348193,ICAL16305,537IMED	WG1348954-6,537IMED
74	1:A,4	I20464	ACN BLANK	ACN BLANK
75	1:A,1	I20465	MeOH BLANK	MeOH BLANK
76	2:B,7	I20466	WG1348954,WG1347546,ICAL16305	WG1347546-1
77	2:B,8	I20467	WG1348954,WG1347546,ICAL16305	L2009548-01
78	2:C,1	I20468	WG1348954,WG1347546,ICAL16305	L2009548-02
79	2:C,2	I20469	WG1348954,WG1347546,ICAL16305	L2009548-03
80	2:C,3	I20470	WG1348954,WG1347546,ICAL16305	L2009548-04
81	2:C,4	I20471	WG1348954,WG1347546,ICAL16305	L2009548-05
82	2:C,5	I20472	WG1348954,WG1347546,ICAL16305	L2009548-06
83	2:C,6	I20473	WG1348954,WG1347546,ICAL16305	L2009548-07
84	2:C,7	I20474	WG1348954,WG1347546,ICAL16305	WG1347546-2
85	2:C,8	I20475	WG1348954,WG1347546,ICAL16305	WG1347546-3
86	1:A,2	I20476	WG1348954,WG1347969,ICAL16305,537ILOW	WG1348954-7,537ILOW
87	1:A,2	I20477	ACN/MeOH FLUSH	ACN/MeOH FLUSH
88	1:A,3	I20478	MEOH FLUSH	MeOH FLUSH

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	0.5	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	10	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.0	QC	0.5	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	ACN_MeOH_Flush_30	3.0	Analyte	---	LCMS02:RS
537ISO28_M_SPAN_DOD	181009_TUNE	MeOH_Flush_30	3.0	Analyte	---	LCMS02:RS

ORGANIC ELN REPORT

Workgroup: WG1347919

Prep Method: ALPHA 23528
Solvent Type: Methanol **Lot #:** DX985-US
Surrogate Type: NA **Lot #:** LC_537_ISO_SURR_200303/2(
Spike Type: 537 **Lot #:** LC_537_ISO_LCS_200305
Spike Verify by: N/A
Lims Spikelot: 537I

Additional Reagents/Stds

2% NH4OH	EC030520A
25 mM NaOAc	EC022820A
Acetic Acid	2019072400

Conc.Method: N-EVAP
Solvent Type: 80:20 Methanol/Wat
Lot #: EC0221220A

Additional Reagents/Stds

IS	537_ISO_ISTD_200304

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Initial Sample Weight	Final Weight g	Sample Vol g	Balance Id	Surr Amt ml	Spike Amt ml	Pipette Id	Lot: Spe Cartrid	Flow Rate ml/min	Lot: Clnup Cartridg	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit	Pipette Id
L2009600-04 WATER	03/06/20 07:50	Tyler Russell	7.5	0	7.5	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
1-1 HOSE 52. Sample seemed to have soap and bubbles. This was diluted to 250 mL with DI water.																		
L2009693-01 WATER	03/06/20 07:50	Tyler Russell	294	24	270	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
5-1 HOSE 32																		
L2009693-02	03/06/20 07:50	Tyler Russell	301	24	277	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
5-2 HOSE 53																		
L2009693-03 WATER	03/06/20 07:50	Tyler Russell	295	24	271	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
5-3 HOSE 51																		
L2009693-04 WATER	03/06/20 07:50	Tyler Russell	305	24	281	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
1-2 HOSE 27																		
L2009793-01 WATER	03/06/20 07:50	Tyler Russell	287	26	261	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
1-3 HOSE 60																		

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ORGANIC ELN REPORT

Workgroup: WG1347919

Sample/ Type	Extraction													Concentration				
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartrid	Flow Rate **ml/min**	Lot: Clnup Cartridg	Flow Rate 2 **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	Pipette Id
L2009793-02 WATER	03/06/20 07:50	Tyler Russell	284	26	258	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	1-5 HOSE 20																	
L2009793-03 WATER	03/06/20 07:50	Tyler Russell	295	27	268	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	2-1 HOSE 28																	
L2009823-01 WATER	03/06/20 07:50	Tyler Russell	289	26	263	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	2-2 HOSE 58. Centrifuged and decanted.																	
L2009823-02 WATER	03/06/20 07:50	Tyler Russell	283	26	257	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	2-3 HOSE 56. Centrifuged and decanted.																	
L2009823-03 WATER	03/06/20 07:50	Tyler Russell	278	27	251	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	2-4 HOSE 16. Centrifuged and decanted.																	
L2009823-04 WATER	03/06/20 07:50	Tyler Russell	289	26	263	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	2-5 HOSE 59. Centrifuged and decanted.																	
L2009823-05 WATER	03/06/20 07:50	Tyler Russell	287	25	262	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	2-6 HOSE 39. Centrifuged and decanted.																	
L2009823-06 WATER	03/06/20 07:50	Tyler Russell	291	25	266	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	3-1 HOSE 12. Centrifuged and decanted.																	

ORGANIC ELN REPORT

Workgroup: WG1347919

Sample/ Type	Extraction													Concentration				
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartrid	Flow Rate **ml/min**	Lot: Clnup Cartridg	Flow Rate 2 **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	Pipette Id
L2009823-07 WATER	03/06/20 07:50	Tyler Russell	286	25	261	BAL-7	.02		WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	3-2 HOSE 57. Centrifuged and decanted.																	
L2009823-08 WATER	03/06/20 07:50	Tyler Russell	285	27	258	BAL-7	.02		WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	3-3 HOSE 19., Centrifuged and decanted.																	
L2009823-09 WATER	03/06/20 07:50	Tyler Russell	303	23	280	BAL-7	.02		WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	3-4 HOSE 14																	
L2009824-01	03/06/20 07:50	Tyler Russell	310	27	283	BAL-7	.02		WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	3-5 HOSE 17																	
L2010072-01 SAMP	03/06/20 07:50	Tyler Russell	296	27	269	BAL-7	.02		WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	3-6 HOSE 7																	
WG1347919-1 BLANK	03/06/20 07:50	Tyler Russell	275	25	250	BAL-7	.02		WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	5-4 HOSE 32., Shared QCs with WG1347920																	
WG1347919-2 LCS	03/06/20 07:50	Tyler Russell	275	25	250	BAL-7	.02	.02	WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	5-5 HOSE 53																	
WG1347919-3 LCSD	03/06/20 07:50	Tyler Russell	275	25	250	BAL-7	.02	.02	WHG-31	S19-007054; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 657	247_249
	5-6 HOSE 27																	

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ORGANIC ELN REPORT

Workgroup: WG1347919

Sample/ Type	Extraction													Concentration				
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartrid	Flow Rate **ml/min**	Lot: Clnup Cartridg	Flow Rate 2 **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	Pipette Id
WG1347919-4 MS	03/06/20 07:50 **1-4 HOSE 23**	Tyler Russell	279	27	252	BAL-7	.02	.02	WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 65 7	247_249
WG1347919-5 DUP	03/06/20 07:50 **1-6 HOSE 55**	Tyler Russell	278	27	251	BAL-7	.02		WHG-31	S19-007054 ; S308-010	4	BO2483; 1/1242/G	4	03/06/20 11:29	Mark Ranalli	1	NEVAP 65 7	247_249

Reported: 17-MAR-20 02:53 PM

ANALYTICAL REPORT

Lab Number:	L2010093
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Fuad Duhan
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313
Report Date:	03/18/20

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010093
Report Date: 03/18/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2010093-01	MW-203	WATER	LIBERTY, NY	03/05/20 09:00	03/05/20
L2010093-02	MW-204	WATER	LIBERTY, NY	03/05/20 11:30	03/05/20
L2010093-03	MW-205	WATER	LIBERTY, NY	03/05/20 10:35	03/05/20
L2010093-04	MW-206	WATER	LIBERTY, NY	03/05/20 12:20	03/05/20
L2010093-05	MW-208	WATER	LIBERTY, NY	03/05/20 13:20	03/05/20
L2010093-06	MW-207	WATER	LIBERTY, NY	03/05/20 15:30	03/05/20
L2010093-07	FB	WATER	LIBERTY, NY	03/05/20 14:50	03/05/20
L2010093-08	TB	WATER	LIBERTY, NY	03/03/20 00:00	03/05/20
L2010093-09	DUP	WATER	LIBERTY, NY	03/05/20 00:00	03/05/20

Project Name:	GROSSINGERS	**Lab Number:**	L2010093
Project Number:	9313	**Report Date:**	03/18/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: GROSSINGERS **Lab Number:** L2010093
Project Number: 9313 **Report Date:** 03/18/20

Case Narrative (continued)

Report Submission
March 18, 2020: This final report includes the results of all requested analyses.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution
L2010093-01, -04, -04, and -09: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
WG1349833-1: The continuing calibration standard had the response for Perfluorohexanesulfonic Acid-Branched (br-PFHxS) outside of acceptance criteria. The response for Perfluorohexanesulfonic Acid (PFHxS) was within acceptance criteria; therefore, no further action was taken.
WG1349833-2: The continuing calibration standard had the response for Perfluoroctanesulfonic Acid-Branched (br-PFOS) outside of acceptance criteria. The response for Perfluorooctanesulfonic Acid (PFOS) was within acceptance criteria; therefore, no further action was taken.
WG1349833-3: The continuing calibration standard had the response for Perfluorohexanesulfonic Acid-Branched (br-PFHxS) outside of acceptance criteria. The response for Perfluorohexanesulfonic Acid (PFHxS) was within acceptance criteria; therefore, no further action was taken.
The WG1348148-5 Laboratory Duplicate RPD for perfluorotetradecanoic acid (pfta) (53%), performed on L2010093-01, is outside the acceptance criteria.
WG1348148-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 03/18/20

ORGANICS

VOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-01
Client ID: MW-203
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 09:00
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 12:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-01 Date Collected: 03/05/20 09:00

Client ID: MW-203 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-01 Date Collected: 03/05/20 09:00

Client ID: MW-203 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-02
Client ID: MW-204
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 11:30
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 12:48
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-02 Date Collected: 03/05/20 11:30

Client ID: MW-204 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-02 Date Collected: 03/05/20 11:30

Client ID: MW-204 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-03
Client ID: MW-205
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 10:35
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 13:10
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-03 Date Collected: 03/05/20 10:35

Client ID: MW-205 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-03 Date Collected: 03/05/20 10:35

Client ID: MW-205 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-04
Client ID: MW-206
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 12:20
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 13:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-04 Date Collected: 03/05/20 12:20

Client ID: MW-206 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-04 Date Collected: 03/05/20 12:20

Client ID: MW-206 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-05
Client ID: MW-208
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 13:20
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 13:54
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	1.8	J	ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-05 Date Collected: 03/05/20 13:20

Client ID: MW-208 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-05 Date Collected: 03/05/20 13:20

Client ID: MW-208 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-06
Client ID: MW-207
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 15:30
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 14:16
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-06 Date Collected: 03/05/20 15:30

Client ID: MW-207 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-06 Date Collected: 03/05/20 15:30

Client ID: MW-207 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	114		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-08
Client ID: TB
Sample Location: LIBERTY, NY

Date Collected: 03/03/20 00:00
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/09/20 15:55
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-08 Date Collected: 03/03/20 00:00

Client ID: TB Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-08 Date Collected: 03/03/20 00:00

Client ID: TB Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	115		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-09
Client ID: DUP
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 00:00
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/10/20 14:38
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	2.0	J	ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-09 Date Collected: 03/05/20 00:00

Client ID: DUP Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-09 Date Collected: 03/05/20 00:00

Client ID: DUP Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/20 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1348908-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/20 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1348908-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/20 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1348908-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/09/20 08:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1348908-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/20 08:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1349240-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/20 08:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1349240-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/20 08:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1349240-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/10/20 08:03
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,09 Batch: WG1349240-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1348908-3 WG1348908-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	120		120		70-130	0		20
Carbon tetrachloride	130		**140**	Q	63-132	7		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	95		93		63-130	2		20
1,1,2-Trichloroethane	98		94		70-130	4		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	140		150		62-150	7		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	130		130		67-130	0		20
Bromodichloromethane	120		120		67-130	0		20
trans-1,3-Dichloropropene	98		93		70-130	5		20
cis-1,3-Dichloropropene	120		110		70-130	9		20
1,1-Dichloropropene	120		130		70-130	8		20
Bromoform	92		89		54-136	3		20
1,1,2,2-Tetrachloroethane	92		89		67-130	3		20
Benzene	110		120		70-130	9		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	84		91		64-130	8		20
Bromomethane	120		120		39-139	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1348908-3 WG1348908-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	130		**140**	Q	55-138	7		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		120		70-130	9		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	99		100		70-130	1		20
1,4-Dichlorobenzene	97		100		70-130	3		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	100		98		64-130	2		20
Acrylonitrile	100		98		70-130	2		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	90		94		36-147	4		20
Acetone	120		110		58-148	9		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	99		96		63-138	3		20
Vinyl acetate	99		96		70-130	3		20
4-Methyl-2-pentanone	95		87		59-130	9		20
2-Hexanone	85		81		57-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1348908-3 WG1348908-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	130		110		63-133	17		20
1,2-Dibromoethane	98		95		70-130	3		20
1,3-Dichloropropane	96		95		70-130	1		20
1,1,1,2-Tetrachloroethane	110		110		64-130	0		20
Bromobenzene	92		96		70-130	4		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	85		88		41-144	3		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	84		86		70-130	2		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	89		92		70-130	3		20
1,2,4-Trichlorobenzene	91		97		70-130	6		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
1,4-Dioxane	104		98		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1348908-3 WG1348908-4								
p-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	96		100		70-130	4		20
Ethyl ether	130		130		59-134	0		20
trans-1,4-Dichloro-2-butene	99		88		70-130	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		119		70-130
Toluene-d8	93		94		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	107		111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010093

Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1349240-3 WG1349240-4								
Methylene chloride	94		95		70-130	1		20
1,1-Dichloroethane	97		97		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	91		90		70-130	1		20
Dibromochloromethane	90		94		63-130	4		20
1,1,2-Trichloroethane	84		86		70-130	2		20
Tetrachloroethene	87		88		70-130	1		20
Chlorobenzene	90		92		75-130	2		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	94		97		70-130	3		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	96		96		67-130	0		20
trans-1,3-Dichloropropene	86		90		70-130	5		20
cis-1,3-Dichloropropene	90		94		70-130	4		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	86		93		54-136	8		20
1,1,2,2-Tetrachloroethane	78		89		67-130	13		20
Benzene	96		97		70-130	1		20
Toluene	92		92		70-130	0		20
Ethylbenzene	93		94		70-130	1		20
Chloromethane	87		87		64-130	0		20
Bromomethane	96		96		39-139	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1349240-3 WG1349240-4								
Vinyl chloride	96		96		55-140	0		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	98		100		70-130	2		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	90		94		70-130	4		20
1,3-Dichlorobenzene	93		96		70-130	3		20
1,4-Dichlorobenzene	90		93		70-130	3		20
Methyl tert butyl ether	90		95		63-130	5		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	97		99		70-130	2		20
Dibromomethane	90		93		70-130	3		20
1,2,3-Trichloropropane	81		88		64-130	8		20
Acrylonitrile	83		89		70-130	7		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	88		89		36-147	1		20
Acetone	83		90		58-148	8		20
Carbon disulfide	95		97		51-130	2		20
2-Butanone	85		92		63-138	8		20
Vinyl acetate	84		87		70-130	4		20
4-Methyl-2-pentanone	74		85		59-130	14		20
2-Hexanone	72		81		57-130	12		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1349240-3 WG1349240-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	87		92		70-130	6		20
1,3-Dichloropropane	85		89		70-130	5		20
1,1,1,2-Tetrachloroethane	94		94		64-130	0		20
Bromobenzene	91		95		70-130	4		20
n-Butylbenzene	95		98		53-136	3		20
sec-Butylbenzene	94		97		70-130	3		20
tert-Butylbenzene	82		84		70-130	2		20
o-Chlorotoluene	92		95		70-130	3		20
p-Chlorotoluene	92		94		70-130	2		20
1,2-Dibromo-3-chloropropane	82		93		41-144	13		20
Hexachlorobutadiene	97		100		63-130	3		20
Isopropylbenzene	95		97		70-130	2		20
p-Isopropyltoluene	97		99		70-130	2		20
Naphthalene	76		85		70-130	11		20
n-Propylbenzene	94		97		69-130	3		20
1,2,3-Trichlorobenzene	87		92		70-130	6		20
1,2,4-Trichlorobenzene	87		92		70-130	6		20
1,3,5-Trimethylbenzene	94		97		64-130	3		20
1,2,4-Trimethylbenzene	94		97		70-130	3		20
1,4-Dioxane	86		96		56-162	11		20
p-Diethylbenzene	94		95		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010093

Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,09 Batch: WG1349240-3 WG1349240-4								
p-Ethyltoluene	95		98		70-130	3		20
1,2,4,5-Tetramethylbenzene	87		90		70-130	3		20
Ethyl ether	86		94		59-134	9		20
trans-1,4-Dichloro-2-butene	81		89		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		101		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-01
Client ID: MW-203
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 09:00
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 15:48
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.79		ng/l	2.14	0.438	1
Perfluoropentanoic Acid (PFPeA)	1.62	J	ng/l	2.14	0.425	1
Perfluorobutanesulfonic Acid (PFBS)	1.23	J	ng/l	2.14	0.255	1
Perfluorohexanoic Acid (PFHxA)	2.13	J	ng/l	2.14	0.352	1
Perfluoroheptanoic Acid (PFHpA)	1.77	J	ng/l	2.14	0.242	1
Perfluorohexanesulfonic Acid (PFHxS)	0.914	J	ng/l	2.14	0.403	1
Perfluorooctanoic Acid (PFOA)	6.00		ng/l	2.14	0.253	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.14	1.43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.14	0.738	1
Perfluorononanoic Acid (PFNA)	0.802	J	ng/l	2.14	0.335	1
Perfluorooctanesulfonic Acid (PFOS)	27.9		ng/l	2.14	0.541	1
Perfluorodecanoic Acid (PFDA)	0.464	J	ng/l	2.14	0.326	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.14	1.30	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.14	0.695	1
Perfluoroundecanoic Acid (PFUnA)	0.288	J	ng/l	2.14	0.279	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.14	1.05	1
Perfluorooctanesulfonamide (FOSA)	0.978	J	ng/l	2.14	0.622	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2.34		ng/l	2.14	0.863	1
Perfluorododecanoic Acid (PFDoA)	1.32	J	ng/l	2.14	0.399	1
Perfluorotridecanoic Acid (PFTrDA)	0.768	J	ng/l	2.14	0.351	1
Perfluorotetradecanoic Acid (PFTA)	3.92		ng/l	2.14	0.266	1
PFOA/PFOS, Total	33.9		ng/l	2.14	0.253	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-01 Date Collected: 03/05/20 09:00

Client ID: MW-203 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**300**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**231**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-02
Client ID: MW-204
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 11:30
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 16:21
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.971	J	ng/l	2.04	0.416	1
Perfluoropentanoic Acid (PFPeA)	0.812	J	ng/l	2.04	0.404	1
Perfluorobutanesulfonic Acid (PFBS)	0.249	J	ng/l	2.04	0.243	1
Perfluorohexanoic Acid (PFHxA)	0.837	J	ng/l	2.04	0.335	1
Perfluoroheptanoic Acid (PFHpA)	0.563	J	ng/l	2.04	0.230	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.04	0.384	1
Perfluorooctanoic Acid (PFOA)	2.22		ng/l	2.04	0.241	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.04	1.36	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.04	0.702	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.04	0.318	1
Perfluorooctanesulfonic Acid (PFOS)	5.05		ng/l	2.04	0.514	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.04	0.310	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.04	1.24	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.04	0.661	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.04	0.265	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.04	1.00	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.04	0.592	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.04	0.820	1
Perfluorododecanoic Acid (PFDoA)	0.588	J	ng/l	2.04	0.380	1
Perfluorotridecanoic Acid (PFTrDA)	0.384	J	ng/l	2.04	0.334	1
Perfluorotetradecanoic Acid (PFTA)	1.66	J	ng/l	2.04	0.253	1
PFOA/PFOS, Total	7.27		ng/l	2.04	0.241	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-02 Date Collected: 03/05/20 11:30

Client ID: MW-204 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	179		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	34		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-03
Client ID: MW-205
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 10:35
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 16:38
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.597	J	ng/l	1.90	0.388	1
Perfluoropentanoic Acid (PFPeA)	0.646	J	ng/l	1.90	0.376	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	0.597	J	ng/l	1.90	0.312	1
Perfluoroheptanoic Acid (PFHpA)	0.414	J	ng/l	1.90	0.214	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.90	0.357	1
Perfluorooctanoic Acid (PFOA)	2.19		ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.654	1
Perfluorononanoic Acid (PFNA)	0.300	J	ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	2.13		ng/l	1.90	0.479	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.90	0.289	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.616	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.247	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.932	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.551	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.764	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.354	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.311	1
Perfluorotetradecanoic Acid (PFTA)	1.13	J	ng/l	1.90	0.236	1
PFOA/PFOS, Total	4.32		ng/l	1.90	0.224	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-03 Date Collected: 03/05/20 10:35

Client ID: MW-205 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	174		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-04
Client ID: MW-206
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 12:20
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 16:54
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	9.62		ng/l	1.91	0.389	1
Perfluoropentanoic Acid (PFPeA)	4.08		ng/l	1.91	0.378	1
Perfluorobutanesulfonic Acid (PFBS)	2.22		ng/l	1.91	0.227	1
Perfluorohexanoic Acid (PFHxA)	5.43		ng/l	1.91	0.313	1
Perfluoroheptanoic Acid (PFHpA)	5.37		ng/l	1.91	0.215	1
Perfluorohexanesulfonic Acid (PFHxS)	2.91		ng/l	1.91	0.359	1
Perfluorooctanoic Acid (PFOA)	25.5		ng/l	1.91	0.225	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.91	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.809	J	ng/l	1.91	0.656	1
Perfluorononanoic Acid (PFNA)	1.29	J	ng/l	1.91	0.298	1
Perfluorooctanesulfonic Acid (PFOS)	47.9		ng/l	1.91	0.481	1
Perfluorodecanoic Acid (PFDA)	0.561	J	ng/l	1.91	0.290	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.91	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.91	0.618	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.91	0.248	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.91	0.935	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.91	0.553	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.91	0.767	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.91	0.355	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.91	0.312	1
Perfluorotetradecanoic Acid (PFTA)	0.802	J	ng/l	1.91	0.237	1
PFOA/PFOS, Total	73.4		ng/l	1.91	0.225	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-04 Date Collected: 03/05/20 12:20

Client ID: MW-206 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	240		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**180**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-05
Client ID: MW-208
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 13:20
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 17:11
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	10.3		ng/l	1.96	0.400	1
Perfluoropentanoic Acid (PFPeA)	6.12		ng/l	1.96	0.388	1
Perfluorobutanesulfonic Acid (PFBS)	2.40		ng/l	1.96	0.233	1
Perfluorohexanoic Acid (PFHxA)	8.38		ng/l	1.96	0.322	1
Perfluoroheptanoic Acid (PFHpA)	6.38		ng/l	1.96	0.221	1
Perfluorohexanesulfonic Acid (PFHxS)	6.24		ng/l	1.96	0.369	1
Perfluorooctanoic Acid (PFOA)	38.2		ng/l	1.96	0.231	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	1.87	J	ng/l	1.96	1.30	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.01	J	ng/l	1.96	0.674	1
Perfluorononanoic Acid (PFNA)	2.58		ng/l	1.96	0.306	1
Perfluorooctanesulfonic Acid (PFOS)	68.2		ng/l	1.96	0.494	1
Perfluorodecanoic Acid (PFDA)	3.69		ng/l	1.96	0.298	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.96	1.19	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	8.18		ng/l	1.96	0.635	1
Perfluoroundecanoic Acid (PFUnA)	0.792	J	ng/l	1.96	0.255	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.96	0.961	1
Perfluorooctanesulfonamide (FOSA)	16.2		ng/l	1.96	0.569	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	9.71		ng/l	1.96	0.788	1
Perfluorododecanoic Acid (PFDoA)	0.518	J	ng/l	1.96	0.365	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.96	0.321	1
Perfluorotetradecanoic Acid (PFTA)	0.690	J	ng/l	1.96	0.243	1
PFOA/PFOS, Total	106		ng/l	1.96	0.231	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-05 Date Collected: 03/05/20 13:20

Client ID: MW-208 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**306**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**311**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	112		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	109		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-06
Client ID: MW-207
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 15:30
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 17:27
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.94	J	ng/l	2.09	0.427	1
Perfluoropentanoic Acid (PFPeA)	1.62	J	ng/l	2.09	0.414	1
Perfluorobutanesulfonic Acid (PFBS)	0.749	J	ng/l	2.09	0.249	1
Perfluorohexanoic Acid (PFHxA)	1.61	J	ng/l	2.09	0.343	1
Perfluoroheptanoic Acid (PFHpA)	1.35	J	ng/l	2.09	0.236	1
Perfluorohexanesulfonic Acid (PFHxS)	1.15	J	ng/l	2.09	0.393	1
Perfluorooctanoic Acid (PFOA)	6.59		ng/l	2.09	0.247	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.09	1.39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.09	0.720	1
Perfluorononanoic Acid (PFNA)	0.644	J	ng/l	2.09	0.326	1
Perfluorooctanesulfonic Acid (PFOS)	11.3		ng/l	2.09	0.527	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.09	0.318	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.09	1.27	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.09	0.678	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.09	0.272	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.09	1.02	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.09	0.607	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.09	0.841	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.09	0.389	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.09	0.342	1
Perfluorotetradecanoic Acid (PFTA)	0.561	J	ng/l	2.09	0.259	1
PFOA/PFOS, Total	17.9		ng/l	2.09	0.247	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-06 Date Collected: 03/05/20 15:30

Client ID: MW-207 Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	191		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	137		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-07
Client ID: FB
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 14:50
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 20:13
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.87	0.382	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.87	0.371	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.87	0.223	1
Perfluorohexanoic Acid (PFHxA)	0.318	J	ng/l	1.87	0.307	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.87	0.211	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.87	0.352	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.87	0.221	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.87	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.87	0.644	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.87	0.292	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.87	0.472	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.87	0.285	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.87	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.607	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.243	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.87	0.918	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.87	0.543	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.753	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.348	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.306	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.232	1
PFOA/PFOS, Total	ND		ng/l	1.87	0.221	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-07 Date Collected: 03/05/20 14:50

Client ID: FB Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	128		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-09
Client ID: DUP
Sample Location: LIBERTY, NY

Date Collected: 03/05/20 00:00
Date Received: 03/05/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 20:29
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	11.9		ng/l	1.99	0.406	1
Perfluoropentanoic Acid (PFPeA)	6.22		ng/l	1.99	0.394	1
Perfluorobutanesulfonic Acid (PFBS)	2.67		ng/l	1.99	0.237	1
Perfluorohexanoic Acid (PFHxA)	8.50		ng/l	1.99	0.327	1
Perfluoroheptanoic Acid (PFHpA)	6.15		ng/l	1.99	0.224	1
Perfluorohexanesulfonic Acid (PFHxS)	6.90		ng/l	1.99	0.374	1
Perfluorooctanoic Acid (PFOA)	39.7		ng/l	1.99	0.235	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.02		ng/l	1.99	1.33	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.06	J	ng/l	1.99	0.685	1
Perfluorononanoic Acid (PFNA)	2.73		ng/l	1.99	0.311	1
Perfluorooctanesulfonic Acid (PFOS)	69.4		ng/l	1.99	0.502	1
Perfluorodecanoic Acid (PFDA)	3.88		ng/l	1.99	0.303	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.99	1.21	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	7.72		ng/l	1.99	0.645	1
Perfluoroundecanoic Acid (PFUnA)	0.737	J	ng/l	1.99	0.259	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.99	0.976	1
Perfluorooctanesulfonamide (FOSA)	16.3		ng/l	1.99	0.578	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	6.77		ng/l	1.99	0.801	1
Perfluorododecanoic Acid (PFDoA)	0.458	J	ng/l	1.99	0.370	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.99	0.326	1
Perfluorotetradecanoic Acid (PFTA)	0.271	J	ng/l	1.99	0.247	1
PFOA/PFOS, Total	109		ng/l	1.99	0.235	1

Project Name: GROSSINGERS **Lab Number:** L2010093

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010093-09 Date Collected: 03/05/20 00:00

Client ID: DUP Date Received: 03/05/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**267**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	109		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**297**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	43		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	123		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 14:25
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07,09 Batch: WG1348148-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.376	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/11/20 14:25
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/06/20 15:00

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07,09 Batch: WG1348148-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	129		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	49		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85		33-143

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1348148-2 WG1348148-3								
Perfluorobutanoic Acid (PFBA)	98		100		67-148	2		30
Perfluoropentanoic Acid (PFPeA)	105		106		63-161	1		30
Perfluorobutanesulfonic Acid (PFBS)	95		97		65-157	2		30
Perfluorohexanoic Acid (PFHxA)	98		100		69-168	2		30
Perfluoroheptanoic Acid (PFHpA)	99		99		58-159	0		30
Perfluorohexanesulfonic Acid (PFHxS)	92		92		69-177	0		30
Perfluorooctanoic Acid (PFOA)	101		105		63-159	4		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	115		123		49-187	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	104		110		61-179	6		30
Perfluorononanoic Acid (PFNA)	100		102		68-171	2		30
Perfluorooctanesulfonic Acid (PFOS)	97		111		52-151	13		30
Perfluorodecanoic Acid (PFDA)	95		102		63-171	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	134		124		56-173	8		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	112		122		60-166	9		30
Perfluoroundecanoic Acid (PFUnA)	102		101		60-153	1		30
Perfluorodecanesulfonic Acid (PFDS)	100		113		38-156	12		30
Perfluorooctanesulfonamide (FOSA)	101		96		46-170	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		121		45-170	16		30
Perfluorododecanoic Acid (PFDoA)	103		110		67-153	7		30
Perfluorotridecanoic Acid (PFTrDA)	118		123		48-158	4		30
Perfluorotetradecanoic Acid (PFTA)	110		103		59-182	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1348148-2 WG1348148-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	116		115		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		101		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		103		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		103		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		103		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	121		112		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		108		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		92		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		104		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	123		129		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		89		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		110		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	53		54		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	89		81		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	97		94		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		95		33-143

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010093
Report Date: 03/18/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1348148-5 QC Sample: L2010093-01 Client ID: MW-203						
Perfluorobutanoic Acid (PFBA)	2.79	2.79	ng/l	0		30
Perfluoropentanoic Acid (PFPeA)	1.62J	1.54J	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	1.23J	1.05J	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	2.13J	1.76J	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	1.77J	1.53J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	0.914J	1.26J	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	6.00	6.07	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	0.802J	0.619J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	27.9	21.6	ng/l	25		30
Perfluorodecanoic Acid (PFDA)	0.464J	0.390J	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	0.288J	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	0.978J	0.680J	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2.34	2.39	ng/l	2		30
Perfluorododecanoic Acid (PFDoA)	1.32J	0.848J	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	0.768J	0.385J	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1348148-5 QC Sample: L2010093-01 Client ID: MW-203						
Perfluorotetradecanoic Acid (PFTA)	3.92	2.27	ng/l	**53**	Q	30
PFOA/PFOS, Total	33.9	27.7	ng/l	20		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		102		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		90		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		84		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		93		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		101		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		98		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**300**	Q	**277**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		104		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		96		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		97		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**231**	Q	**214**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		100		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		97		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		44		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		111		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		82		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		77		33-143

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010093
Report Date: 03/18/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2010093-01A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-01B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-01C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-01D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-01E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-02A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-02B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-02C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-02D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-02E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-03A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-03B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-03C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-03D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-03E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-04A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-04B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-04C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-04D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-04E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-05A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-05B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010093
Report Date: 03/18/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2010093-05C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-05D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-05E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-06A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-06B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-06C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-06D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-06E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-07A	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-08A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-08B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-09A	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-09B	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-09C	Vial HCl preserved	A	NA		4.8	Y	Absent		NYTCL-8260(14)
L2010093-09D	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010093-09E	Plastic 250ml unpreserved	A	NA		4.8	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010093
Report Date: 03/18/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name:	GROSSINGERS	**Lab Number:**	L2010093
Project Number:	9313	**Report Date:**	03/18/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2010093
Project Number:	9313	**Report Date:**	03/18/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Project Name:	GROSSINGERS	**Lab Number:**	L2010093
Project Number:	9313	**Report Date:**	03/18/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2010093
Project Number:	9313	**Report Date:**	03/18/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/6/20

ALPHA Job #: L2010093

Client Information
Client: ESI
Address: 12a Maple ave
Pine Brook, NJ
Phone: 973 808 9050
Fax:
Email: Fd @esi.org

Project Information
Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9313
(Use Project name as Project #) ☐
Project Manager: Fuad Dahan
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: 1 week
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other NY Cat B

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use NY Cat B
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # 9313
Phase 10

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	PFAS, 537	Total Bottle	Sample Specific Comments
10093-01	MW-203	3/5/20	900	GW	JCS	X	X		
-02	MW-204		1130						
-03	MW-205		1035						
-04	MW-206		1220						
-05	MW-208		1320						
-06	MW-207		1530						
-07	FB		1450	DI					
-08	TB	3/3/20				X			
-09	DUP	3/5/20		GW		X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V, P	V, P	
Preservative	A, B	A, B	

Relinquished By:	Date/Time	Received By:	Date/Time
	3/5/20 1745		3/5/20 1745
	3/5/20 1745		3/6/20 0000
	3/6/20 0015		3/6/20 00:16

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2010346
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Fuad Duhan
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313
Report Date:	03/18/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010346
Report Date: 03/18/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2010346-01	MW-216	WATER	LIBERTY, NY	03/06/20 09:25	03/06/20
L2010346-02	MW-217	WATER	LIBERTY, NY	03/06/20 11:00	03/06/20
L2010346-03	MW-209	WATER	LIBERTY, NY	03/06/20 16:00	03/06/20
L2010346-04	MW-211	WATER	LIBERTY, NY	03/06/20 11:30	03/06/20
L2010346-05	MW-201	WATER	LIBERTY, NY	03/06/20 13:45	03/06/20
L2010346-06	MW-210	WATER	LIBERTY, NY	03/06/20 15:10	03/06/20
L2010346-07	FB	WATER	LIBERTY, NY	03/06/20 16:15	03/06/20
L2010346-08	TB	WATER	LIBERTY, NY	03/03/20 00:00	03/06/20

Project Name:	GROSSINGERS	**Lab Number:**	L2010346
Project Number:	9313	**Report Date:**	03/18/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: GROSSINGERS **Lab Number:** L2010346
Project Number: 9313 **Report Date:** 03/18/20

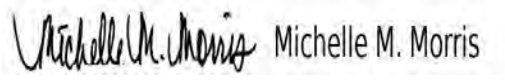
Case Narrative (continued)

Report Submission
March 18, 2020: This final report includes the results of all requested analyses.
March 12, 2020: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution
L2010346-02: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
WG1350235-1: The continuing calibration standard had the response for Perfluoroctanesulfonic Acid-Branched (br-PFOS) outside of acceptance criteria. The response for Perfluorooctanesulfonic Acid (PFOS) was within acceptance criteria; therefore, no further action was taken.
WG1350235-1: The continuing calibration standard had the response for Perfluorohexanesulfonic Acid-linear (L-PFHxS) outside of acceptance criteria. The response for Perfluorohexanesulfonic Acid (PFHxS) was within acceptance criteria; therefore, no further action was taken.
WG1350235-3: The continuing calibration standard had the response for Perfluorohexanesulfonic Acid-Branched (br-PFHxS) outside of acceptance criteria. The response for Perfluorohexanesulfonic Acid (PFHxS) was within acceptance criteria; therefore, no further action was taken.
WG1350235-4: The continuing calibration standard had the response for M2-8:2FTS outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 03/18/20

ORGANICS

VOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-01
Client ID: MW-216
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 09:25
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 19:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	48		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-01 Date Collected: 03/06/20 09:25

Client ID: MW-216 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	15		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-01 Date Collected: 03/06/20 09:25

Client ID: MW-216 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
Total TIC Compounds	7.72	J	ug/l			1
Fluorodichloromethane	7.72	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-02
Client ID: MW-217
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 11:00
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 20:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	22		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-02 Date Collected: 03/06/20 11:00

Client ID: MW-217 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-02 Date Collected: 03/06/20 11:00

Client ID: MW-217 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	112		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-03
Client ID: MW-209
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 16:00
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 20:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-03 Date Collected: 03/06/20 16:00

Client ID: MW-209 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-03 Date Collected: 03/06/20 16:00

Client ID: MW-209 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-04
Client ID: MW-211
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 11:30
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 21:09
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-04 Date Collected: 03/06/20 11:30

Client ID: MW-211 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-04 Date Collected: 03/06/20 11:30

Client ID: MW-211 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	113		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-05
Client ID: MW-201
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 13:45
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 21:39
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-05 Date Collected: 03/06/20 13:45

Client ID: MW-201 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-05 Date Collected: 03/06/20 13:45

Client ID: MW-201 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-06
Client ID: MW-210
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:10
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 23:40
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-06 Date Collected: 03/06/20 15:10

Client ID: MW-210 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-06 Date Collected: 03/06/20 15:10

Client ID: MW-210 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	112		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-08
Client ID: TB
Sample Location: LIBERTY, NY

Date Collected: 03/03/20 00:00
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/11/20 19:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-08 Date Collected: 03/03/20 00:00

Client ID: TB Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-08 Date Collected: 03/03/20 00:00

Client ID: TB Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/20 18:08
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG1350045-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/20 18:08
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG1350045-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/20 18:08
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG1350045-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds			
Total TIC Compounds	2.89	J	ug/l
Ethane, 1,1-Difluoro-	2.89	NJ	ug/l

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/11/20 18:08
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06,08 Batch: WG1350045-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1350045-3 WG1350045-4								
Methylene chloride	110		96		70-130	14		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	130		130		63-132	0		20
1,2-Dichloropropane	97		94		70-130	3		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	97		93		70-130	4		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	98		96		75-130	2		20
Trichlorofluoromethane	140		140		62-150	0		20
1,2-Dichloroethane	120		110		70-130	9		20
1,1,1-Trichloroethane	130		130		67-130	0		20
Bromodichloromethane	120		120		67-130	0		20
trans-1,3-Dichloropropene	110		100		70-130	10		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
1,1-Dichloropropene	120		120		70-130	0		20
Bromoform	85		84		54-136	1		20
1,1,2,2-Tetrachloroethane	75		72		67-130	4		20
Benzene	110		110		70-130	0		20
Toluene	100		97		70-130	3		20
Ethylbenzene	100		97		70-130	3		20
Chloromethane	86		86		64-130	0		20
Bromomethane	90		96		39-139	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010346

Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1350045-3 WG1350045-4								
Vinyl chloride	96		99		55-140	3		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	130		120		70-130	8		20
1,2-Dichlorobenzene	99		96		70-130	3		20
1,3-Dichlorobenzene	99		97		70-130	2		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	87		80		64-130	8		20
Acrylonitrile	91		89		70-130	2		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	110		120		58-148	9		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	100		100		63-138	0		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	76		75		59-130	1		20
2-Hexanone	83		82		57-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1350045-3 WG1350045-4								
Bromochloromethane	120		110		70-130	9		20
2,2-Dichloropropane	130		120		63-133	8		20
1,2-Dibromoethane	98		95		70-130	3		20
1,3-Dichloropropane	100		97		70-130	3		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	85		83		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	92		91		70-130	1		20
tert-Butylbenzene	100		97		70-130	3		20
o-Chlorotoluene	97		84		70-130	14		20
p-Chlorotoluene	94		91		70-130	3		20
1,2-Dibromo-3-chloropropane	79		82		41-144	4		20
Hexachlorobutadiene	98		98		63-130	0		20
Isopropylbenzene	90		88		70-130	2		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	89		91		70-130	2		20
n-Propylbenzene	92		89		69-130	3		20
1,2,3-Trichlorobenzene	94		95		70-130	1		20
1,2,4-Trichlorobenzene	95		95		70-130	0		20
1,3,5-Trimethylbenzene	120		110		64-130	9		20
1,2,4-Trimethylbenzene	120		110		70-130	9		20
1,4-Dioxane	136		136		56-162	0		20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010346

Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06,08 Batch: WG1350045-3 WG1350045-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	110		100		70-130	10		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	70		70		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		109		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	85		83		70-130
Dibromofluoromethane	109		108		70-130

SEMIVOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-01
Client ID: MW-216
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 09:25
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 00:43
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.28		ng/l	1.93	0.394	1
Perfluoropentanoic Acid (PFPeA)	2.06		ng/l	1.93	0.382	1
Perfluorobutanesulfonic Acid (PFBS)	1.35	J	ng/l	1.93	0.230	1
Perfluorohexanoic Acid (PFHxA)	2.95		ng/l	1.93	0.317	1
Perfluoroheptanoic Acid (PFHpA)	2.12		ng/l	1.93	0.217	1
Perfluorohexanesulfonic Acid (PFHxS)	1.80	J	ng/l	1.93	0.363	1
Perfluorooctanoic Acid (PFOA)	8.18		ng/l	1.93	0.228	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.93	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.93	0.664	1
Perfluorononanoic Acid (PFNA)	0.402	J	ng/l	1.93	0.301	1
Perfluorooctanesulfonic Acid (PFOS)	6.51		ng/l	1.93	0.486	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.93	0.293	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.93	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.93	0.625	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.93	0.251	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.93	0.946	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.93	0.560	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.93	0.776	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.93	0.359	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.93	0.316	1
Perfluorotetradecanoic Acid (PFTA)	0.259	J	ng/l	1.93	0.239	1
PFOA/PFOS, Total	14.7		ng/l	1.93	0.228	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-01 Date Collected: 03/06/20 09:25

Client ID: MW-216 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	209		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	149		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-02
Client ID: MW-217
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 11:00
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 01:00
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.31		ng/l	1.94	0.395	1
Perfluoropentanoic Acid (PFPeA)	2.11		ng/l	1.94	0.384	1
Perfluorobutanesulfonic Acid (PFBS)	2.93		ng/l	1.94	0.231	1
Perfluorohexanoic Acid (PFHxA)	3.40		ng/l	1.94	0.318	1
Perfluoroheptanoic Acid (PFHpA)	2.66		ng/l	1.94	0.218	1
Perfluorohexanesulfonic Acid (PFHxS)	7.38		ng/l	1.94	0.364	1
Perfluorooctanoic Acid (PFOA)	15.7		ng/l	1.94	0.229	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.94	1.29	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.752	J	ng/l	1.94	0.667	1
Perfluorononanoic Acid (PFNA)	1.08	J	ng/l	1.94	0.302	1
Perfluorooctanesulfonic Acid (PFOS)	30.0		ng/l	1.94	0.488	1
Perfluorodecanoic Acid (PFDA)	0.473	J	ng/l	1.94	0.294	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.94	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.94	0.628	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.94	0.252	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.94	0.950	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.94	0.562	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.94	0.779	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.94	0.360	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.94	0.317	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.94	0.240	1
PFOA/PFOS, Total	45.7		ng/l	1.94	0.229	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-02 Date Collected: 03/06/20 11:00

Client ID: MW-217 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**254**	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**178**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	39		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-03
Client ID: MW-209
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 16:00
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 02:39
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.63		ng/l	2.30	0.470	1
Perfluoropentanoic Acid (PFPeA)	2.77		ng/l	2.30	0.456	1
Perfluorobutanesulfonic Acid (PFBS)	1.36	J	ng/l	2.30	0.274	1
Perfluorohexanoic Acid (PFHxA)	2.74		ng/l	2.30	0.378	1
Perfluoroheptanoic Acid (PFHpA)	3.04		ng/l	2.30	0.259	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.30	0.433	1
Perfluorooctanoic Acid (PFOA)	5.16		ng/l	2.30	0.272	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.30	1.53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.30	0.793	1
Perfluorononanoic Acid (PFNA)	1.39	J	ng/l	2.30	0.359	1
Perfluorooctanesulfonic Acid (PFOS)	1.18	J	ng/l	2.30	0.581	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.30	0.350	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.30	1.40	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.30	0.746	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.30	0.300	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.30	1.13	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.30	0.668	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.26	J	ng/l	2.30	0.926	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.30	0.428	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.30	0.377	1
Perfluorotetradecanoic Acid (PFTA)	0.618	J	ng/l	2.30	0.286	1
PFOA/PFOS, Total	6.34	J	ng/l	2.30	0.272	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-03 Date Collected: 03/06/20 16:00

Client ID: MW-209 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	190		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	71		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-04
Client ID: MW-211
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 11:30
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 02:56
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.27	0.464	1
Perfluoropentanoic Acid (PFPeA)	0.609	J	ng/l	2.27	0.450	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.27	0.270	1
Perfluorohexanoic Acid (PFHxA)	0.432	J	ng/l	2.27	0.373	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.27	0.256	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.27	0.427	1
Perfluorooctanoic Acid (PFOA)	0.941	J	ng/l	2.27	0.268	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.27	1.51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.27	0.782	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.27	0.354	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.27	0.573	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.27	0.345	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.27	1.38	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.27	0.736	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.27	0.295	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.27	1.11	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.27	0.659	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.27	0.914	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.27	0.423	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.27	0.372	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.27	0.282	1
PFOA/PFOS, Total	0.941	J	ng/l	2.27	0.268	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-04 Date Collected: 03/06/20 11:30

Client ID: MW-211 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	124		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	147		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	142		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-05
Client ID: MW-201
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 13:45
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 03:12
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.98	0.403	1
Perfluoropentanoic Acid (PFPeA)	0.454	J	ng/l	1.98	0.391	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.98	0.235	1
Perfluorohexanoic Acid (PFHxA)	0.565	J	ng/l	1.98	0.324	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.98	0.222	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.98	0.372	1
Perfluorooctanoic Acid (PFOA)	0.553	J	ng/l	1.98	0.233	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.98	1.32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.98	0.680	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.98	0.308	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.98	0.498	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.98	0.300	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.98	1.20	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.98	0.640	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.98	0.257	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.98	0.968	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.98	0.573	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.98	0.794	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.98	0.368	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.98	0.323	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.98	0.245	1
PFOA/PFOS, Total	0.553	J	ng/l	1.98	0.233	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-05 Date Collected: 03/06/20 13:45

Client ID: MW-201 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	112		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	137		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	137		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	68		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-06
Client ID: MW-210
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:10
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 03:29
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	1.59	J	ng/l	2.30	0.470	1
Perfluoropentanoic Acid (PFPeA)	0.885	J	ng/l	2.30	0.456	1
Perfluorobutanesulfonic Acid (PFBS)	0.922	J	ng/l	2.30	0.274	1
Perfluorohexanoic Acid (PFHxA)	1.21	J	ng/l	2.30	0.378	1
Perfluoroheptanoic Acid (PFHpA)	0.857	J	ng/l	2.30	0.259	1
Perfluorohexanesulfonic Acid (PFHxS)	1.10	J	ng/l	2.30	0.433	1
Perfluorooctanoic Acid (PFOA)	2.91		ng/l	2.30	0.272	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.30	1.53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.30	0.793	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.30	0.359	1
Perfluorooctanesulfonic Acid (PFOS)	6.43		ng/l	2.30	0.581	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.30	0.350	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.30	1.40	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.30	0.746	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.30	0.300	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.30	1.13	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.30	0.668	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.30	0.926	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.30	0.428	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.30	0.377	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.30	0.286	1
PFOA/PFOS, Total	9.34		ng/l	2.30	0.272	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-06 Date Collected: 03/06/20 15:10

Client ID: MW-210 Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	138		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	68		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	31		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		33-143

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-07
Client ID: FB
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 16:15
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/13/20 03:45
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238	1
Perfluorohexanoic Acid (PFHxA)	0.372	J	ng/l	2.00	0.328	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327	1
Perfluorotetradecanoic Acid (PFTA)	0.484	J	ng/l	2.00	0.248	1
PFOA/PFOS, Total	ND		ng/l	2.00	0.236	1

Project Name: GROSSINGERS **Lab Number:** L2010346

Project Number: 9313 **Report Date:** 03/18/20

SAMPLE RESULTS

Lab ID: L2010346-07 Date Collected: 03/06/20 16:15

Client ID: FB Date Received: 03/06/20

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	118		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	116		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	112		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	131		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	65		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		33-143

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010346
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/12/20 22:31
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 12:32

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1348523-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.352	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	0.452	J	ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 03/12/20 22:31
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 03/08/20 12:32

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1348523-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	112		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	114		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	121		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	94		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		33-143

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 Batch: WG1348523-2 WG1348523-3								
Perfluorobutanoic Acid (PFBA)	98		103		67-148	5		30
Perfluoropentanoic Acid (PFPeA)	102		110		63-161	8		30
Perfluorobutanesulfonic Acid (PFBS)	93		102		65-157	9		30
Perfluorohexanoic Acid (PFHxA)	98		104		69-168	6		30
Perfluoroheptanoic Acid (PFHpA)	97		103		58-159	6		30
Perfluorohexanesulfonic Acid (PFHxS)	91		97		69-177	6		30
Perfluorooctanoic Acid (PFOA)	106		108		63-159	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	115		118		49-187	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	112		116		61-179	4		30
Perfluorononanoic Acid (PFNA)	101		104		68-171	3		30
Perfluorooctanesulfonic Acid (PFOS)	106		100		52-151	6		30
Perfluorodecanoic Acid (PFDA)	100		107		63-171	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	117		129		56-173	10		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	105		115		60-166	9		30
Perfluoroundecanoic Acid (PFUnA)	100		108		60-153	8		30
Perfluorodecanesulfonic Acid (PFDS)	108		103		38-156	5		30
Perfluorooctanesulfonamide (FOSA)	106		108		46-170	2		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	95		100		45-170	5		30
Perfluorododecanoic Acid (PFDoA)	103		107		67-153	4		30
Perfluorotridecanoic Acid (PFTrDA)	109		114		48-158	4		30
Perfluorotetradecanoic Acid (PFTA)	101		110		59-182	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 Batch: WG1348523-2 WG1348523-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		103		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120		113		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		98		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		99		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		105		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		103		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		107		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		123		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		108		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		104		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		99		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	131		122		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	93		91		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	112		107		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		62		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	92		87		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		101		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		90		33-143

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010346
Report Date: 03/18/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2010346-01A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-01B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-01C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-01D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-01E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-02A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-02B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-02C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-02D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-02E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-03A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-03B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-03C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-03D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-03E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-04A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-04B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-04C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-04D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-04E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-05A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-05B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010346
Report Date: 03/18/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2010346-05C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-05D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-05E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-06A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-06B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-06C	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-06D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-06E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-07D	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-07E	Plastic 250ml unpreserved	B	NA		2.4	Y	Absent		A2-NY-537-ISOTOPE(14)
L2010346-08A	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)
L2010346-08B	Vial HCl preserved	A	NA		3.1	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010346
Report Date: 03/18/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name:	GROSSINGERS	**Lab Number:**	L2010346
Project Number:	9313	**Report Date:**	03/18/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2010346
Project Number:	9313	**Report Date:**	03/18/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2010346
Project Number:	9313	**Report Date:**	03/18/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2010346
Project Number:	9313	**Report Date:**	03/18/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/7/20

ALPHA Job #: L2010346

Client Information
Client: SESI
Address: 129 Maplewood Dr Pine Brook, NJ
Phone: 9738084050
Fax:
Email: fd@sesi.org

Project Information
Project Name: Grossinger's
Project Location: Liberty, NY
Project #: 9313
(Use Project name as Project #) ☐
Project Manager: Fuad Datoo
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: 1 week
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other NY Cat B

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge NY Cat B

Billing Information
☒ Same as Client Info
PO # 9313 Phase 10

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	PFAS, 537	Total Bottle	Sample Specific Comments
10346 01	MW-216	3/6/20	925	GW	JCS	X	X		
-02	MW-217		1100						
-03	MW-209		1600						
-04	MW-211		1130						
-05	MW-201		1345						
-06	MW-210		1510						
-07	FB		1615	DF			X		
-08	TB	3/3/20				X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	P
Preservative	B	A

Relinquished By:	Date/Time	Received By:	Date/Time
	3/6/20 1830		3/6/20 1830
	3/6/20 1830	AAL	3/6/20 20:20
AAL	3/6/20 23:55		3/6/20 23:55

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2121570
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Todd Kelly
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313
Report Date:	05/12/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2121570-01	MW-214	WATER	LIBERTY, NY	04/27/21 09:55	04/27/21
L2121570-02	MW-213	WATER	LIBERTY, NY	04/27/21 10:15	04/27/21
L2121570-03	MW-207	WATER	LIBERTY, NY	04/27/21 11:40	04/27/21
L2121570-04	MW-206	WATER	LIBERTY, NY	04/27/21 11:45	04/27/21
L2121570-05	MW-204	WATER	LIBERTY, NY	04/27/21 13:35	04/27/21
L2121570-06	MW-205	WATER	LIBERTY, NY	04/27/21 13:40	04/27/21
L2121570-07	DUP	WATER	LIBERTY, NY	04/27/21 12:00	04/27/21
L2121570-08	TB	WATER	LIBERTY, NY	04/26/21 00:00	04/27/21

Project Name:	GROSSINGERS	**Lab Number:**	L2121570
Project Number:	9313	**Report Date:**	05/12/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GROSSINGERS	**Lab Number:**	L2121570
Project Number:	9313	**Report Date:**	05/12/21

Case Narrative (continued)

Report Submission

May 12, 2021: This final report includes the results of all requested analyses.

May 04, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2121570-01, -02 and WG1493960-3/-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2121570-03 and -04: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2121570-05 and -06: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 05/12/21

ORGANICS

VOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-01
Client ID: MW-214
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 09:55
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 19:14
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	5.4		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-01 Date Collected: 04/27/21 09:55

Client ID: MW-214 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	21		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-01 Date Collected: 04/27/21 09:55

Client ID: MW-214 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	105		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-02
Client ID: MW-213
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 10:15
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 19:35
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	52		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-02 Date Collected: 04/27/21 10:15

Client ID: MW-213 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	54		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-02 Date Collected: 04/27/21 10:15

Client ID: MW-213 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-03
Client ID: MW-207
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 11:40
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 19:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-03 Date Collected: 04/27/21 11:40

Client ID: MW-207 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-03 Date Collected: 04/27/21 11:40

Client ID: MW-207 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	109		70-130

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-04 Date Collected: 04/27/21 11:45
Client ID: MW-206 Date Received: 04/27/21
Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 20:17
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-04 Date Collected: 04/27/21 11:45

Client ID: MW-206 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	1.4	J	ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-04 Date Collected: 04/27/21 11:45

Client ID: MW-206 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	105		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-05
Client ID: MW-204
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 13:35
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 20:38
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-05 Date Collected: 04/27/21 13:35

Client ID: MW-204 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-05 Date Collected: 04/27/21 13:35

Client ID: MW-204 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-06
Client ID: MW-205
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 13:40
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 20:59
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-06 Date Collected: 04/27/21 13:40

Client ID: MW-205 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-06 Date Collected: 04/27/21 13:40

Client ID: MW-205 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-07
Client ID: DUP
Sample Location: LIBERTY, NY
Date Collected: 04/27/21 12:00
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 21:20
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	54		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-07 Date Collected: 04/27/21 12:00

Client ID: DUP Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	55		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-07 Date Collected: 04/27/21 12:00

Client ID: DUP Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	107		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-08
Client ID: TB
Sample Location: LIBERTY, NY

Date Collected: 04/26/21 00:00
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/21 18:53
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-08 Date Collected: 04/26/21 00:00

Client ID: TB Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-08 Date Collected: 04/26/21 00:00

Client ID: TB Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/21 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1494075-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/21 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1494075-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/21 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1494075-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/21 18:32
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1494075-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1494075-3 WG1494075-4								
Methylene chloride	95		96		70-130	1		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	95		93		70-130	2		20
Carbon tetrachloride	86		84		63-132	2		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	94		100		63-130	6		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	79		77		62-150	3		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	96		91		67-130	5		20
Bromodichloromethane	92		92		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	92		91		70-130	1		20
1,1-Dichloropropene	94		90		70-130	4		20
Bromoform	96		97		54-136	1		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	96		95		70-130	1		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	75		67		64-130	11		20
Bromomethane	100		97		39-139	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1494075-3 WG1494075-4								
Vinyl chloride	98		88		55-140	11		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	94		90		61-145	4		20
trans-1,2-Dichloroethene	97		97		70-130	0		20
Trichloroethene	100		96		70-130	4		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	100		96		70-130	4		20
1,4-Dichlorobenzene	99		96		70-130	3		20
Methyl tert butyl ether	90		96		63-130	6		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	97		94		70-130	3		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	90		96		64-130	6		20
Acrylonitrile	120		130		70-130	8		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	72		64		36-147	12		20
Acetone	98		100		58-148	2		20
Carbon disulfide	84		82		51-130	2		20
2-Butanone	100		120		63-138	18		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	**140**	Q	**150**	Q	59-130	7		20
2-Hexanone	120		120		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121570

Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1494075-3 WG1494075-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	96		93		63-133	3		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	100		99		53-136	1		20
sec-Butylbenzene	92		87		70-130	6		20
tert-Butylbenzene	95		88		70-130	8		20
o-Chlorotoluene	95		89		70-130	7		20
p-Chlorotoluene	97		90		70-130	7		20
1,2-Dibromo-3-chloropropane	98		100		41-144	2		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	89		83		70-130	7		20
p-Isopropyltoluene	96		90		70-130	6		20
Naphthalene	88		90		70-130	2		20
n-Propylbenzene	98		92		69-130	6		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	110		100		70-130	10		20
1,3,5-Trimethylbenzene	89		83		64-130	7		20
1,2,4-Trimethylbenzene	89		84		70-130	6		20
1,4-Dioxane	114		112		56-162	2		20
p-Diethylbenzene	95		88		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121570

Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1494075-3 WG1494075-4								
p-Ethyltoluene	91		84		70-130	8		20
1,2,4,5-Tetramethylbenzene	89		84		70-130	6		20
Ethyl ether	97		100		59-134	3		20
trans-1,4-Dichloro-2-butene	98		100		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		107		70-130
Toluene-d8	111		113		70-130
4-Bromofluorobenzene	88		88		70-130
Dibromofluoromethane	102		103		70-130

SEMIVOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-01
Client ID: MW-214
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 09:55
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/04/21 14:34
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	10.1		ng/l	2.01	0.410	1
Perfluoropentanoic Acid (PFPeA)	6.97	F	ng/l	2.01	0.398	1
Perfluorobutanesulfonic Acid (PFBS)	3.02		ng/l	2.01	0.239	1
Perfluorohexanoic Acid (PFHxA)	9.42		ng/l	2.01	0.330	1
Perfluoroheptanoic Acid (PFHpA)	6.64		ng/l	2.01	0.226	1
Perfluorohexanesulfonic Acid (PFHxS)	6.66		ng/l	2.01	0.378	1
Perfluorooctanoic Acid (PFOA)	29.5		ng/l	2.01	0.237	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.01	1.34	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.35	J	ng/l	2.01	0.691	1
Perfluorononanoic Acid (PFNA)	1.29	J	ng/l	2.01	0.314	1
Perfluorooctanesulfonic Acid (PFOS)	40.3		ng/l	2.01	0.506	1
Perfluorodecanoic Acid (PFDA)	0.631	JF	ng/l	2.01	0.306	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.01	1.22	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.01	0.651	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.01	0.261	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.01	0.985	1
Perfluorooctanesulfonamide (FOSA)	0.800	JF	ng/l	2.01	0.583	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.01	0.808	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.01	0.374	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.01	0.329	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.01	0.249	1
PFOA/PFOS, Total	69.8		ng/l	2.01	0.237	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-01 Date Collected: 04/27/21 09:55

Client ID: MW-214 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	76		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	74		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	70		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	71		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	64		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	63		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**68**	Q	69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	63		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	60		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	34		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	59		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	41		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-02
Client ID: MW-213
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 10:15
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/04/21 15:08
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	12.8		ng/l	1.97	0.401	1
Perfluoropentanoic Acid (PFPeA)	8.53		ng/l	1.97	0.389	1
Perfluorobutanesulfonic Acid (PFBS)	2.92		ng/l	1.97	0.234	1
Perfluorohexanoic Acid (PFHxA)	9.60		ng/l	1.97	0.322	1
Perfluoroheptanoic Acid (PFHpA)	6.70		ng/l	1.97	0.221	1
Perfluorohexanesulfonic Acid (PFHxS)	6.29		ng/l	1.97	0.370	1
Perfluorooctanoic Acid (PFOA)	27.7		ng/l	1.97	0.232	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.97	1.31	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.22	J	ng/l	1.97	0.676	1
Perfluorononanoic Acid (PFNA)	2.67		ng/l	1.97	0.307	1
Perfluorooctanesulfonic Acid (PFOS)	70.0		ng/l	1.97	0.496	1
Perfluorodecanoic Acid (PFDA)	1.40	J	ng/l	1.97	0.299	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.97	1.19	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.97	0.637	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.97	0.256	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.97	0.964	1
Perfluorooctanesulfonamide (FOSA)	1.27	JF	ng/l	1.97	0.570	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.97	0.790	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.97	0.366	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.97	0.322	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.97	0.244	1
PFOA/PFOS, Total	97.7		ng/l	1.97	0.232	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-02 Date Collected: 04/27/21 10:15

Client ID: MW-213 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	69		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	64		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**67**	Q	69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	65		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	63		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	49		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	62		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-03
Client ID: MW-207
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 11:40
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/21 00:28
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.497	J	ng/l	2.14	0.437	1
Perfluoropentanoic Acid (PFPeA)	0.476	J	ng/l	2.14	0.424	1
Perfluorobutanesulfonic Acid (PFBS)	0.304	J	ng/l	2.14	0.255	1
Perfluorohexanoic Acid (PFHxA)	0.660	J	ng/l	2.14	0.352	1
Perfluoroheptanoic Acid (PFHpA)	0.506	J	ng/l	2.14	0.241	1
Perfluorohexanesulfonic Acid (PFHxS)	0.472	J	ng/l	2.14	0.403	1
Perfluorooctanoic Acid (PFOA)	2.20		ng/l	2.14	0.253	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.14	1.43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.14	0.738	1
Perfluorononanoic Acid (PFNA)	0.467	J	ng/l	2.14	0.334	1
Perfluorooctanesulfonic Acid (PFOS)	8.36		ng/l	2.14	0.540	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.14	0.326	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.14	1.30	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.14	0.695	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.14	0.279	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.14	1.05	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.14	0.622	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.14	0.862	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.14	0.399	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.14	0.351	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.14	0.266	1
PFOA/PFOS, Total	10.6		ng/l	2.14	0.253	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-03 Date Collected: 04/27/21 11:40

Client ID: MW-207 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	84		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	77		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	75		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-04
Client ID: MW-206
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 11:45
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/21 00:45
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	13.1		ng/l	1.94	0.396	1
Perfluoropentanoic Acid (PFPeA)	4.20		ng/l	1.94	0.384	1
Perfluorobutanesulfonic Acid (PFBS)	2.68		ng/l	1.94	0.231	1
Perfluorohexanoic Acid (PFHxA)	5.80		ng/l	1.94	0.318	1
Perfluoroheptanoic Acid (PFHpA)	6.84		ng/l	1.94	0.219	1
Perfluorohexanesulfonic Acid (PFHxS)	4.42		ng/l	1.94	0.365	1
Perfluorooctanoic Acid (PFOA)	26.0		ng/l	1.94	0.229	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.94	1.29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.94	0.668	1
Perfluorononanoic Acid (PFNA)	1.01	J	ng/l	1.94	0.303	1
Perfluorooctanesulfonic Acid (PFOS)	30.9		ng/l	1.94	0.489	1
Perfluorodecanoic Acid (PFDA)	0.307	J	ng/l	1.94	0.295	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.94	1.18	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.94	0.629	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.94	0.252	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.94	0.952	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.94	0.563	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.94	0.781	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.94	0.361	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.94	0.318	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.94	0.241	1
PFOA/PFOS, Total	56.9		ng/l	1.94	0.229	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-04 Date Collected: 04/27/21 11:45

Client ID: MW-206 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	78		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	74		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	79		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	67		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	75		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	70		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	78		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	68		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-05
Client ID: MW-204
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 13:35
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/21 01:01
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.724	J	ng/l	1.93	0.393	1
Perfluoropentanoic Acid (PFPeA)	0.701	J	ng/l	1.93	0.381	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.93	0.229	1
Perfluorohexanoic Acid (PFHxA)	0.744	J	ng/l	1.93	0.316	1
Perfluoroheptanoic Acid (PFHpA)	0.389	J	ng/l	1.93	0.217	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.93	0.362	1
Perfluorooctanoic Acid (PFOA)	1.53	J	ng/l	1.93	0.227	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.93	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.93	0.663	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.93	0.300	1
Perfluorooctanesulfonic Acid (PFOS)	4.41		ng/l	1.93	0.485	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.93	0.293	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.93	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.93	0.624	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.93	0.250	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.93	0.944	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.93	0.774	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.93	0.358	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.93	0.315	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.93	0.239	1
PFOA/PFOS, Total	5.94	J	ng/l	1.93	0.227	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-05 Date Collected: 04/27/21 13:35

Client ID: MW-204 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	72		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	68		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	70		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	64		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	42		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	73		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	49		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-05
Client ID: MW-204
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 13:35
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 22:16
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.93	0.559	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	72		10-112

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-06
Client ID: MW-205
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 13:40
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/21 01:18
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.87	0.381	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.87	0.370	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.87	0.222	1
Perfluorohexanoic Acid (PFHxA)	0.478	J	ng/l	1.87	0.306	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.87	0.210	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.87	0.351	1
Perfluorooctanoic Acid (PFOA)	0.620	J	ng/l	1.87	0.220	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.87	1.24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.87	0.643	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.87	0.291	1
Perfluorooctanesulfonic Acid (PFOS)	0.583	J	ng/l	1.87	0.471	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.87	0.284	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.87	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.605	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.243	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.87	0.915	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.751	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.348	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.306	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.232	1
PFOA/PFOS, Total	1.20	J	ng/l	1.87	0.220	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-06 Date Collected: 04/27/21 13:40

Client ID: MW-205 Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	72		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	69		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	70		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	81		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	67		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	70		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-06
Client ID: MW-205
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 13:40
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/12/21 00:24
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.87	0.542	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74		10-112

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-07
Client ID: DUP
Sample Location: LIBERTY, NY

Date Collected: 04/27/21 12:00
Date Received: 04/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/21 01:34
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	11.3		ng/l	2.01	0.410	1
Perfluoropentanoic Acid (PFPeA)	8.30		ng/l	2.01	0.398	1
Perfluorobutanesulfonic Acid (PFBS)	2.91		ng/l	2.01	0.239	1
Perfluorohexanoic Acid (PFHxA)	9.39		ng/l	2.01	0.330	1
Perfluoroheptanoic Acid (PFHpA)	6.90		ng/l	2.01	0.226	1
Perfluorohexanesulfonic Acid (PFHxS)	6.45		ng/l	2.01	0.378	1
Perfluorooctanoic Acid (PFOA)	28.5		ng/l	2.01	0.237	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.01	1.34	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.31	J	ng/l	2.01	0.692	1
Perfluorononanoic Acid (PFNA)	2.54		ng/l	2.01	0.314	1
Perfluorooctanesulfonic Acid (PFOS)	69.5		ng/l	2.01	0.507	1
Perfluorodecanoic Acid (PFDA)	1.49	J	ng/l	2.01	0.306	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.01	1.22	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.01	0.652	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.01	0.261	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.01	0.985	1
Perfluorooctanesulfonamide (FOSA)	0.869	JF	ng/l	2.01	0.583	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.01	0.808	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.01	0.374	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.01	0.329	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.01	0.249	1
PFOA/PFOS, Total	98.0		ng/l	2.01	0.237	1

Project Name: GROSSINGERS **Lab Number:** L2121570

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121570-07 Date Collected: 04/27/21 12:00

Client ID: DUP Date Received: 04/27/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	69		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	72		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	67		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	45		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	67		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	65		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		22-136

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/04/21 13:45
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1493960-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.432	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/04/21 13:45
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1493960-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	71		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	54		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	75		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	96		22-136

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/05/21 13:34
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1493960-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92		10-112

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 Batch: WG1493960-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	107		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	103		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	104		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	113		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	103		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	117		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	107		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	103		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	109		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	113		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	99		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	97		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	97		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	104		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	130		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	115		-		59-182	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121570

Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 Batch: WG1493960-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	70				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	71				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121570

Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-07		Batch: WG1493960-2					
Perfluorooctanesulfonamide (FOSA)	93		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	89				10-112

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121570

Report Date: 05/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493960-3 QC Sample: L2121570-01 Client ID: MW-214												
Perfluorobutanoic Acid (PFBA)	10.1	42	50.4	96		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	6.97F	42	48.8	100		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	3.02	37.2	37.5	92		-	-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	9.42	42	50.8	99		-	-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	6.64	42	47.1	96		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	6.66	38.3	42.8	94		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	29.5	42	72.4	102		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	39.9	44.4	111		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.35J	39.9	45.6	111		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	1.29J	42	44.7	103		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	40.3	38.9	82.1	107		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	0.631JF	42	41.6	98		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	40.3	44.5	110		-	-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	42	44.9	107		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	42	43.1	103		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	40.4	31.7	78		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	0.800JF	42	40.4F	94		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	42	42.6	102		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	42	40.7	97		-	-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	42	51.0	122		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	42	44.2	105		-	-		59-182	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121570

Report Date: 05/12/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493960-3 QC Sample: L2121570-01 Client ID: MW-214												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	58				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66				14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	44				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	36				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	58				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**61**	Q			62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	59				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	66				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	78				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	76				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**66**	Q			69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	70				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	63				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493960-4 QC Sample: L2121570-02 Client ID: MW-213						
Perfluorobutanoic Acid (PFBA)	12.8	10.6	ng/l	19		30
Perfluoropentanoic Acid (PFPeA)	8.53	8.48	ng/l	1		30
Perfluorobutanesulfonic Acid (PFBS)	2.92	2.80	ng/l	4		30
Perfluorohexanoic Acid (PFHxA)	9.60	9.61	ng/l	0		30
Perfluoroheptanoic Acid (PFHpA)	6.70	6.82	ng/l	2		30
Perfluorohexanesulfonic Acid (PFHxS)	6.29	6.38	ng/l	1		30
Perfluorooctanoic Acid (PFOA)	27.7	28.0	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.22J	1.12J	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	2.67	2.61	ng/l	2		30
Perfluorooctanesulfonic Acid (PFOS)	70.0	70.8	ng/l	1		30
Perfluorodecanoic Acid (PFDA)	1.40J	1.38J	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	1.27JF	0.911JF	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1493960-4 QC Sample: L2121570-02 Client ID: MW-213						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
PFOA/PFOS, Total	97.7	98.8	ng/l	1		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		79		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		76		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73		74		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		61		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67		70		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80		81		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72		74		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	69		69		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	64		68		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**67**	Q	**68**	Q	69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65		63		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	65		60		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37		37		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	63		59		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		21		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	49		50		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	62		61		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		63		22-136

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2121570-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-01D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-01E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-02D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-02E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-03D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-03E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-04A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-04B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-04C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-04D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-04E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-05A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-05B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-05C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121570
Report Date: 05/12/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2121570-05D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-05E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-06B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-06C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-06D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-06E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-07A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-07B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-07C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-07D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-07E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121570-08A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121570-08B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121570
Report Date: 05/12/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	GROSSINGERS	**Lab Number:**	L2121570
Project Number:	9313	**Report Date:**	05/12/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2121570
Project Number:	9313	**Report Date:**	05/12/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2121570
Project Number:	9313	**Report Date:**	05/12/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2121570
Project Number:	9313	**Report Date:**	05/12/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/27/21

ALPHA Job #: L2121570

Client Information
Client: Sesi
Address: 12a Maple ave
Pine Brook, NJ
Phone: 973 808 9050
Fax:
Email: TTK@sesi.org

Project Information
Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9313
(Use Project name as Project #)
Project Manager: Todd Kelly
ALPHAQuote #:

Turn-Around Time
Standard: [X] 1 week Due Date:
Rush (only if pre approved): [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[X] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO# 9313
Phase II

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs 15	PFAS (537.1)	Sample Specific Comments	Total Bottle
21570 -01	MW-214	4/27/21	955	GW	JGS	X	X		5
-02	MW-213		1015						
-03	MW-207		1140						
-04	MW-206		1145						
-05	MW-204		1335						
-06	MW-205		1340						
-07	DUP		1200						4
	~~FB~~		~~1500~~						
-08	TB	4/26/21		DI		X			2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	2V	P									
Preservative	B	A									

Relinquished By:	Date/Time	Received By:	Date/Time
	4/27/21 1640		4/27 1645
	4/27 1645		4/27/ 1641
	4/27/21 1645		4/27/21 2155

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2121852
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Todd Kelly
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313
Report Date:	05/12/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2121852-01	MW-201	WATER	LIBERTY, NY	04/28/21 12:10	04/28/21
L2121852-02	MW-203	WATER	LIBERTY, NY	04/28/21 09:20	04/28/21
L2121852-03	MW-209	WATER	LIBERTY, NY	04/28/21 12:50	04/28/21
L2121852-04	MW-211	WATER	LIBERTY, NY	04/28/21 10:45	04/28/21
L2121852-05	MW-216	WATER	LIBERTY, NY	04/28/21 11:20	04/28/21
L2121852-06	MW-217	WATER	LIBERTY, NY	04/28/21 12:40	04/28/21
L2121852-07	TB	TRIP BLANK (AQUEOUS)	LIBERTY, NY	04/28/21 00:00	04/28/21

Project Name:	GROSSINGERS	**Lab Number:**	L2121852
Project Number:	9313	**Report Date:**	05/12/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GROSSINGERS	**Lab Number:**	L2121852
Project Number:	9313	**Report Date:**	05/12/21

Case Narrative (continued)

Report Submission

May 12, 2021: This final report includes the results of all requested analyses.

May 05, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2121852-03: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2121852-06: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 05/12/21

ORGANICS

VOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-01
Client ID: MW-201
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:10
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/03/21 12:38
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-01 Date Collected: 04/28/21 12:10

Client ID: MW-201 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-01 Date Collected: 04/28/21 12:10

Client ID: MW-201 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-02
Client ID: MW-203
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 09:20
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/03/21 13:01
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.27	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	3.1		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-02 Date Collected: 04/28/21 09:20

Client ID: MW-203 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	1.0	J	ug/l	2.5	0.70	1
Xylenes, Total	1.0	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	0.87	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-02 Date Collected: 04/28/21 09:20

Client ID: MW-203 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	0.95	J	ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	2.5		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	1.1	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
Total TIC Compounds	12.2	J	ug/l			1
Unknown Aromatic	1.20	J	ug/l			1
Pentane, 2-methyl-	2.45	NJ	ug/l			1
Unknown Benzene	2.53	J	ug/l			1
Pentane, 3-methyl-	1.67	NJ	ug/l			1
Unknown Aromatic	1.01	J	ug/l			1
Unknown Aromatic	1.96	J	ug/l			1
Cyclopentane, Methyl-	1.38	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-03
Client ID: MW-209
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:50
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/03/21 13:24
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-03 Date Collected: 04/28/21 12:50

Client ID: MW-209 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-03 Date Collected: 04/28/21 12:50

Client ID: MW-209 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-04
Client ID: MW-211
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:45
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/03/21 13:47
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-04 Date Collected: 04/28/21 10:45

Client ID: MW-211 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-04 Date Collected: 04/28/21 10:45

Client ID: MW-211 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-05
Client ID: MW-216
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 11:20
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/03/21 14:10
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	29		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-05 Date Collected: 04/28/21 11:20

Client ID: MW-216 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	11		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-05 Date Collected: 04/28/21 11:20

Client ID: MW-216 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
Total TIC Compounds	12.9	J	ug/l			1
Fluorodichloromethane	12.9	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-06
Client ID: MW-217
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:40
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/03/21 14:33
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	47		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-06 Date Collected: 04/28/21 12:40

Client ID: MW-217 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-06 Date Collected: 04/28/21 12:40

Client ID: MW-217 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-07
Client ID: TB
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 00:00
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Trip Blank (Aqueous)
Analytical Method: 1,8260C
Analytical Date: 05/03/21 12:14
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-07 Date Collected: 04/28/21 00:00

Client ID: TB Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-07 Date Collected: 04/28/21 00:00

Client ID: TB Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/21 11:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1494193-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/21 11:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1494193-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/21 11:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1494193-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/21 11:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1494193-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1494193-3 WG1494193-4								
Methylene chloride	97		97		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	96		97		70-130	1		20
Carbon tetrachloride	92		93		63-132	1		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	98		100		63-130	2		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		110		75-130	10		20
Trichlorofluoromethane	86		87		62-150	1		20
1,2-Dichloroethane	98		100		70-130	2		20
1,1,1-Trichloroethane	95		97		67-130	2		20
Bromodichloromethane	94		94		67-130	0		20
trans-1,3-Dichloropropene	97		100		70-130	3		20
cis-1,3-Dichloropropene	93		94		70-130	1		20
1,1-Dichloropropene	96		98		70-130	2		20
Bromoform	98		100		54-136	2		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	96		97		70-130	1		20
Toluene	110		110		70-130	0		20
Ethylbenzene	100		110		70-130	10		20
Chloromethane	69		73		64-130	6		20
Bromomethane	72		72		39-139	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1494193-3 WG1494193-4								
Vinyl chloride	80		83		55-140	4		20
Chloroethane	91		93		55-138	2		20
1,1-Dichloroethene	90		92		61-145	2		20
trans-1,2-Dichloroethene	96		97		70-130	1		20
Trichloroethene	99		100		70-130	1		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	90		93		63-130	3		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	96		95		70-130	1		20
1,2,3-Trichloropropane	110		120		64-130	9		20
Acrylonitrile	110		110		70-130	0		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	59		61		36-147	3		20
Acetone	120		110		58-148	9		20
Carbon disulfide	93		92		51-130	1		20
2-Butanone	100		100		63-138	0		20
Vinyl acetate	100		98		70-130	2		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	110		120		57-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1494193-3 WG1494193-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	90		89		63-133	1		20
1,2-Dibromoethane	100		110		70-130	10		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	110		120		70-130	9		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		120		70-130	9		20
tert-Butylbenzene	110		120		70-130	9		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	83		93		41-144	11		20
Hexachlorobutadiene	110		120		63-130	9		20
Isopropylbenzene	120		120		70-130	0		20
p-Isopropyltoluene	110		120		70-130	9		20
Naphthalene	92		110		70-130	18		20
n-Propylbenzene	110		120		69-130	9		20
1,2,3-Trichlorobenzene	95		110		70-130	15		20
1,2,4-Trichlorobenzene	100		110		70-130	10		20
1,3,5-Trimethylbenzene	110		120		64-130	9		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	88		90		56-162	2		20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121852

Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1494193-3 WG1494193-4								
p-Ethyltoluene	110		120		70-130	9		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Ethyl ether	92		94		59-134	2		20
trans-1,4-Dichloro-2-butene	87		99		70-130	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	108		110		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	98		98		70-130

SEMIVOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-01
Client ID: MW-201
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:10
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 04:07
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.04	0.416	1
Perfluoropentanoic Acid (PFPeA)	0.514	J	ng/l	2.04	0.404	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.04	0.243	1
Perfluorohexanoic Acid (PFHxA)	0.518	J	ng/l	2.04	0.335	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.04	0.230	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.04	0.384	1
Perfluorooctanoic Acid (PFOA)	0.486	J	ng/l	2.04	0.241	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.04	1.36	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.04	0.702	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.04	0.318	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.04	0.514	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.04	0.310	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.04	1.24	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.04	0.661	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.04	0.265	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.04	1.00	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.04	0.592	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.04	0.820	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.04	0.380	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.04	0.334	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.04	0.253	1
PFOA/PFOS, Total	0.486	J	ng/l	2.04	0.241	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-01 Date Collected: 04/28/21 12:10

Client ID: MW-201 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	85		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	66		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	69		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	68		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	64		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	68		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	72		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	49		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	50		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-02
Client ID: MW-203
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 09:20
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 04:40
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.869	J	ng/l	1.82	0.371	1
Perfluoropentanoic Acid (PFPeA)	0.564	J	ng/l	1.82	0.360	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.82	0.216	1
Perfluorohexanoic Acid (PFHxA)	0.778	J	ng/l	1.82	0.298	1
Perfluoroheptanoic Acid (PFHpA)	0.629	J	ng/l	1.82	0.205	1
Perfluorohexanesulfonic Acid (PFHxS)	0.789	J	ng/l	1.82	0.342	1
Perfluorooctanoic Acid (PFOA)	3.26		ng/l	1.82	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.13		ng/l	1.82	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.82	0.625	1
Perfluorononanoic Acid (PFNA)	0.320	J	ng/l	1.82	0.284	1
Perfluorooctanesulfonic Acid (PFOS)	14.5		ng/l	1.82	0.458	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.82	0.276	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.82	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.82	0.589	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.82	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.82	0.891	1
Perfluorooctanesulfonamide (FOSA)	0.989	JF	ng/l	1.82	0.527	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.14		ng/l	1.82	0.731	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.82	0.338	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.82	0.297	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.82	0.225	1
PFOA/PFOS, Total	17.8		ng/l	1.82	0.214	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-02 Date Collected: 04/28/21 09:20

Client ID: MW-203 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	121		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-03
Client ID: MW-209
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:50
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 05:13
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	3.22		ng/l	2.04	0.416	1
Perfluoropentanoic Acid (PFPeA)	2.11		ng/l	2.04	0.404	1
Perfluorobutanesulfonic Acid (PFBS)	0.669	J	ng/l	2.04	0.243	1
Perfluorohexanoic Acid (PFHxA)	1.84	J	ng/l	2.04	0.335	1
Perfluoroheptanoic Acid (PFHpA)	1.63	J	ng/l	2.04	0.230	1
Perfluorohexanesulfonic Acid (PFHxS)	0.506	JF	ng/l	2.04	0.384	1
Perfluorooctanoic Acid (PFOA)	4.08		ng/l	2.04	0.241	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	8.87		ng/l	2.04	1.36	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.04	0.702	1
Perfluorononanoic Acid (PFNA)	1.40	J	ng/l	2.04	0.318	1
Perfluorooctanesulfonic Acid (PFOS)	2.44		ng/l	2.04	0.514	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.04	0.310	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.04	1.24	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.04	0.661	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.04	0.265	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.04	1.00	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.04	0.592	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.04	0.820	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.04	0.380	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.04	0.334	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.04	0.253	1
PFOA/PFOS, Total	6.52		ng/l	2.04	0.241	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-03 Date Collected: 04/28/21 12:50

Client ID: MW-209 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	55		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	81		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	58		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-04
Client ID: MW-211
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:45
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 05:29
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.482	J	ng/l	2.04	0.416	1
Perfluoropentanoic Acid (PFPeA)	0.551	J	ng/l	2.04	0.404	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.04	0.243	1
Perfluorohexanoic Acid (PFHxA)	0.555	J	ng/l	2.04	0.335	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.04	0.230	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.04	0.384	1
Perfluorooctanoic Acid (PFOA)	0.939	J	ng/l	2.04	0.241	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	1.84	J	ng/l	2.04	1.36	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.04	0.702	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.04	0.318	1
Perfluorooctanesulfonic Acid (PFOS)	1.58	J	ng/l	2.04	0.514	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.04	0.310	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.04	1.24	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.04	0.661	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.04	0.265	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.04	1.00	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.04	0.592	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.04	0.820	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.04	0.380	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.04	0.334	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.04	0.253	1
PFOA/PFOS, Total	2.52	J	ng/l	2.04	0.241	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-04 Date Collected: 04/28/21 10:45

Client ID: MW-211 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	79		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	48		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	53		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	84		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-05
Client ID: MW-216
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 11:20
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 05:46
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	5.08		ng/l	1.80	0.368	1
Perfluoropentanoic Acid (PFPeA)	2.40		ng/l	1.80	0.357	1
Perfluorobutanesulfonic Acid (PFBS)	1.30	J	ng/l	1.80	0.215	1
Perfluorohexanoic Acid (PFHxA)	3.06		ng/l	1.80	0.296	1
Perfluoroheptanoic Acid (PFHpA)	2.39		ng/l	1.80	0.203	1
Perfluorohexanesulfonic Acid (PFHxS)	3.56		ng/l	1.80	0.339	1
Perfluorooctanoic Acid (PFOA)	10.8		ng/l	1.80	0.213	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.29		ng/l	1.80	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.80	0.621	1
Perfluorononanoic Acid (PFNA)	0.859	J	ng/l	1.80	0.282	1
Perfluorooctanesulfonic Acid (PFOS)	24.9		ng/l	1.80	0.455	1
Perfluorodecanoic Acid (PFDA)	0.375	JF	ng/l	1.80	0.274	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.80	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.80	0.585	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.80	0.235	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.80	0.884	1
Perfluorooctanesulfonamide (FOSA)	0.664	J	ng/l	1.80	0.523	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.744	J	ng/l	1.80	0.726	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.80	0.336	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.80	0.295	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.80	0.224	1
PFOA/PFOS, Total	35.7		ng/l	1.80	0.213	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-05 Date Collected: 04/28/21 11:20

Client ID: MW-216 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	111		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	60		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-06
Client ID: MW-217
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:40
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 06:02
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	3.66		ng/l	1.77	0.362	1
Perfluoropentanoic Acid (PFPeA)	2.18		ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	2.75		ng/l	1.77	0.211	1
Perfluorohexanoic Acid (PFHxA)	3.86		ng/l	1.77	0.291	1
Perfluoroheptanoic Acid (PFHpA)	2.74		ng/l	1.77	0.200	1
Perfluorohexanesulfonic Acid (PFHxS)	5.70		ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	14.6		ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	1.36	J	ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.610	1
Perfluorononanoic Acid (PFNA)	0.496	J	ng/l	1.77	0.276	1
Perfluorooctanesulfonic Acid (PFOS)	19.5		ng/l	1.77	0.447	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.270	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.574	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.869	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.713	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1
PFOA/PFOS, Total	34.1		ng/l	1.77	0.209	1

Project Name: GROSSINGERS **Lab Number:** L2121852

Project Number: 9313 **Report Date:** 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-06 Date Collected: 04/28/21 12:40

Client ID: MW-217 Date Received: 04/28/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	48		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	55		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	74		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	49		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

SAMPLE RESULTS

Lab ID: L2121852-06
Client ID: MW-217
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 12:40
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/11/21 00:18
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.514	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	79		10-112

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 02:44
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1494805-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.568	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 02:44
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1494805-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	63		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	55		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 21:19
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/05/21 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1494805-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		10-112

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1494805-2								
Perfluorobutanoic Acid (PFBA)	107		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	108		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	105		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	108		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	107		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	117		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	108		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	122		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	98		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	108		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	114		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	105		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	119		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	116		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	107		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	108		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	108		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	110		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	123		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	109		-		59-182	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1494805-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	125				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	55				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121852

Report Date: 05/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-06		Batch: WG1494805-2					
Perfluorooctanesulfonamide (FOSA)	98		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88				10-112

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1494805-3 QC Sample: L2121852-01 Client ID: MW-201												
Perfluorobutanoic Acid (PFBA)	ND	43.7	46.5	106		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	0.514J	43.7	46.8	106		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	38.8	40.8	105		-	-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	0.518J	43.7	47.2	107		-	-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	43.7	45.6	104		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	39.9	45.9	115		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	0.486J	43.7	47.0	107		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	41.6	49.3	119		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	41.6	42.1	101		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	ND	43.7	46.4	106		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	40.5	49.5	122		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	ND	43.7	45.4	104		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	41.9	48.0	115		-	-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	43.7	46.3	106		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	43.7	46.3	106		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	42.1	46.6	111		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	43.7	42.2F	97		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	43.7	47.0	108		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	43.7	51.9	119		-	-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	43.7	56.3	129		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	43.7	51.4	118		-	-		59-182	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2121852

Report Date: 05/12/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1494805-3 QC Sample: L2121852-01 Client ID: MW-201

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	51				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66				14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78				62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	73				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	73				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94				69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	71				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1494805-4 QC Sample: L2121852-02 Client ID: MW-203						
Perfluorobutanoic Acid (PFBA)	0.869J	0.804J	ng/l	NC		30
Perfluoropentanoic Acid (PFPeA)	0.564J	0.637J	ng/l	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	0.778J	0.907J	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	0.629J	0.615J	ng/l	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	0.789J	0.852JF	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	3.26	3.20	ng/l	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.13	2.49	ng/l	16		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	0.320J	0.315J	ng/l	NC		30
Perfluorooctanesulfonic Acid (PFOS)	14.5	14.0	ng/l	4		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/l	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	0.989JF	0.800JF	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.14	3.11	ng/l	1		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1494805-4 QC Sample: L2121852-02 Client ID: MW-203						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		87		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		102		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		91		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		75		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		83		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90		90		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		88		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	121		119		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		86		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		92		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		89		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		83		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	81		81		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		92		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		25		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		73		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		87		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		80		22-136

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2121852-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-01D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-01E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-02A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-02B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-02C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-02D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-02E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-03D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-03E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-04A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-04B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-04C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-04D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-04E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-05A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-05B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-05C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2121852
Report Date: 05/12/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2121852-05D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-05E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-06B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-06C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-06D	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-06E	Plastic 250ml unpreserved	A	NA		4.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2121852-07A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)
L2121852-07B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2121852
Report Date: 05/12/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	GROSSINGERS	**Lab Number:**	L2121852
Project Number:	9313	**Report Date:**	05/12/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2121852
Project Number:	9313	**Report Date:**	05/12/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2121852
Project Number:	9313	**Report Date:**	05/12/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/29/21

ALPHA Job #: L2121852

Client Information

Client: SESI (Consulting Engineer)
Address: 12A Maple Ave
Pine Brook, NJ
Phone:
Fax:
Email: TTK@SESI.org

Project Information

Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9313.11
(Use Project name as Project #)
Project Manager: Todd Kelly
ALPHAQuote #:

Turn-Around Time

Standard: [X] 1 week Due Date:
Rush (only if pre approved): [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[X] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[X] Same as Client Info
PO # 9313.11

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS (537)	VOCs							Total Bottle
21852-01	MW-201	4/28/21	1210	GW	MEM	X	X							
-02	MW-203		0920		MEM	X	X							
-03	MW-209		1250		MEM	X	X							
-04	MW-211		1045		MEM	X	X							
-05	MW-216		1120		MEM	X	X							
-06	MW-217		1240		MEM	X	X							
-07	TB	4/28/21	—	Blank	CH		X							

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code	Container Code
A = None	P = Plastic
B = HCl	A = Amber Glass
C = HNO_3	V = Vial
D = H_2SO_4	G = Glass
E = NaOH	B = Bacteria Cup
F = MeOH	C = Cube
G = $NaHSO_4$	O = Other
H = $Na_2S_2O_3$	E = Encore
K/E = Zn Ac/NaOH	D = BOD Bottle
O = Other	

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P	V							
Preservative	A	B							

Relinquished By:	Date/Time	Received By:	Date/Time
	4/28/21		4/28/21 1517
	4/29/21 17:40		4/28/21 2000
	4/29/21 0010		4/29/21 00:10
Wendy Mooney	4/29/21 4:00	T. Kelly	4/29/21 0405
T. Hubbell	4/29/21 0520		4/29/21 0520

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2122071
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Todd Kelly
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313
Report Date:	05/13/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2122071-01	MW-210	WATER	LIBERTY, NY	04/29/21 11:00	04/29/21
L2122071-02	TB	TRIP BLANK (AQUEOUS)	LIBERTY, NY	04/29/21 00:00	04/29/21

Project Name:	GROSSINGERS	**Lab Number:**	L2122071
Project Number:	9313	**Report Date:**	05/13/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: GROSSINGERS **Lab Number:** L2122071
Project Number: 9313 **Report Date:** 05/13/21

Case Narrative (continued)

Report Submission

May 13, 2021: This final report includes the results of all requested analyses.

May 05, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2122071-01: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

The WG1493960-2 LCS recovery, associated with L2122071-01, is above the acceptance criteria for perfluorooctadecanoic acid (pfoda) (135%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 05/13/21

ORGANICS

VOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-01
Client ID: MW-210
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 11:00
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/04/21 15:27
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-01 Date Collected: 04/29/21 11:00

Client ID: MW-210 Date Received: 04/29/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-01 Date Collected: 04/29/21 11:00

Client ID: MW-210 Date Received: 04/29/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	105		70-130

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-02
Client ID: TB
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 00:00
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Trip Blank (Aqueous)
Analytical Method: 1,8260C
Analytical Date: 05/04/21 15:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-02 Date Collected: 04/29/21 00:00

Client ID: TB Date Received: 04/29/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.0		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-02 Date Collected: 04/29/21 00:00

Client ID: TB Date Received: 04/29/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/21 08:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1494182-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/21 08:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1494182-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/21 08:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1494182-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/21 08:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1494182-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1494182-3 WG1494182-4								
Methylene chloride	91		92		70-130	1		20
1,1-Dichloroethane	96		94		70-130	2		20
Chloroform	97		98		70-130	1		20
Carbon tetrachloride	85		86		63-132	1		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	120		120		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	76		76		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	92		94		67-130	2		20
Bromodichloromethane	90		91		67-130	1		20
trans-1,3-Dichloropropene	96		100		70-130	4		20
cis-1,3-Dichloropropene	93		95		70-130	2		20
1,1-Dichloropropene	95		96		70-130	1		20
Bromoform	97		100		54-136	3		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	72		68		64-130	6		20
Bromomethane	120		110		39-139	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1494182-3 WG1494182-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	98		86		55-138	13		20
1,1-Dichloroethene	93		91		61-145	2		20
trans-1,2-Dichloroethene	96		92		70-130	4		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	120		110		70-130	9		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	86		85		63-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	110		97		70-130	13		20
Dibromomethane	100		110		70-130	10		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	110		120		70-130	9		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	78		77		36-147	1		20
Acetone	93		95		58-148	2		20
Carbon disulfide	85		85		51-130	0		20
2-Butanone	120		120		63-138	0		20
Vinyl acetate	100		110		70-130	10		20
4-Methyl-2-pentanone	**140**	Q	**160**	Q	59-130	13		20
2-Hexanone	120		130		57-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1494182-3 WG1494182-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	91		93		63-133	2		20
1,2-Dibromoethane	110		110		70-130	0		20
1,3-Dichloropropane	120		120		70-130	0		20
1,1,1,2-Tetrachloroethane	100		110		64-130	10		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	98		94		70-130	4		20
tert-Butylbenzene	100		95		70-130	5		20
o-Chlorotoluene	100		96		70-130	4		20
p-Chlorotoluene	100		98		70-130	2		20
1,2-Dibromo-3-chloropropane	100		110		41-144	10		20
Hexachlorobutadiene	120		120		63-130	0		20
Isopropylbenzene	95		90		70-130	5		20
p-Isopropyltoluene	100		97		70-130	3		20
Naphthalene	98		100		70-130	2		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	120		120		70-130	0		20
1,2,4-Trichlorobenzene	120		120		70-130	0		20
1,3,5-Trimethylbenzene	95		91		64-130	4		20
1,2,4-Trimethylbenzene	99		92		70-130	7		20
1,4-Dioxane	116		122		56-162	5		20
p-Diethylbenzene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2122071

Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1494182-3 WG1494182-4								
p-Ethyltoluene	98		93		70-130	5		20
1,2,4,5-Tetramethylbenzene	99		93		70-130	6		20
Ethyl ether	90		92		59-134	2		20
trans-1,4-Dichloro-2-butene	88		96		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		100		70-130
Toluene-d8	109		108		70-130
4-Bromofluorobenzene	90		84		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-01
Client ID: MW-210
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 11:00
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/07/21 02:57
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	14.0		ng/l	1.75	0.358	1
Perfluoropentanoic Acid (PFPeA)	1.48	J	ng/l	1.75	0.347	1
Perfluorobutanesulfonic Acid (PFBS)	1.17	J	ng/l	1.75	0.209	1
Perfluorohexanoic Acid (PFHxA)	1.80		ng/l	1.75	0.288	1
Perfluoroheptanoic Acid (PFHpA)	1.12	J	ng/l	1.75	0.198	1
Perfluorohexanesulfonic Acid (PFHxS)	1.62	J	ng/l	1.75	0.330	1
Perfluorooctanoic Acid (PFOA)	4.74		ng/l	1.75	0.207	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.75	1.17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.75	0.604	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.75	0.274	1
Perfluorooctanesulfonic Acid (PFOS)	7.25		ng/l	1.75	0.442	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.75	0.267	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.75	1.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.75	0.568	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.75	0.228	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.75	0.860	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.75	0.705	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.75	0.326	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.75	0.287	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.75	0.218	1
PFOA/PFOS, Total	12.0		ng/l	1.75	0.207	1

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-01 Date Collected: 04/29/21 11:00

Client ID: MW-210 Date Received: 04/29/21

Sample Location: LIBERTY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	73		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	65		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	67		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	78		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	65		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	90		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		55-137
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	56		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		22-136

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

SAMPLE RESULTS

Lab ID: L2122071-01
Client ID: MW-210
Sample Location: LIBERTY, NY

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/10/21 22:09
Analyst: HT

Date Collected: 04/29/21 11:00
Date Received: 04/29/21
Field Prep: Not Specified

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.75	0.509	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	82		10-112

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/04/21 13:45
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1493960-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.432	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/04/21 13:45
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1493960-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	71		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	54		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	75		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	96		22-136

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/05/21 13:34
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/04/21 04:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1493960-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92		10-112

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1493960-2								
Perfluorobutanoic Acid (PFBA)	101		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	107		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	103		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	104		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	113		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	103		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	117		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	107		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	103		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	109		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	113		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	99		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	97		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	97		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	104		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	130		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	115		-		59-182	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1493960-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	70				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	71				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	84				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	73				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2122071

Report Date: 05/13/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1493960-2								
Perfluorooctanesulfonamide (FOSA)	93		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	89				10-112

Matrix Spike Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1493960-3 QC Sample: L2121570-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	10.1	42	50.4	96		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	6.97F	42	48.8	100		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	3.02	37.2	37.5	92		-	-		65-157	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	39.3	43.4	111		-	-		37-219	-		30
Perfluorohexanoic Acid (PFHxA)	9.42	42	50.8	99		-	-		69-168	-		30
Perfluoropentanesulfonic Acid (PFPeS)	1.92J	39.4	36.5	88		-	-		52-156	-		30
Perfluoroheptanoic Acid (PFHpA)	6.64	42	47.1	96		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	6.66	38.3	42.8	94		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	29.5	42	72.4	102		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	39.9	44.4	111		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.35J	39.9	45.6	111		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	1.29J	42	44.7	103		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	40.3	38.9	82.1	107		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	0.631JF	42	41.6	98		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	40.3	44.5	110		-	-		56-173	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	40.4	33.6	83		-	-		48-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	42	44.9	107		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	42	43.1	103		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	40.4	31.7	78		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	0.800JF	42	40.4F	94		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	42	42.6	102		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	42	40.7	97		-	-		67-153	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
Report Date: 05/13/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1493960-3 QC Sample: L2121570-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	42	51.0	122		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	42	44.2	105		-	-		59-182	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	58				10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	71				12-142
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66				14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	44				27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	36				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	58				55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**61**	Q			62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	59				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	66				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	78				71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	64				22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	76				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	75				62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**66**	Q			69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	70				62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	63				59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73				70-131

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1493960-4 QC Sample: L2121570-02 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	12.8	10.6	ng/l	19		30
Perfluoropentanoic Acid (PFPeA)	8.53	8.48	ng/l	1		30
Perfluorobutanesulfonic Acid (PFBS)	2.92	2.80	ng/l	4		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/l	NC		30
Perfluorohexanoic Acid (PFHxA)	9.60	9.61	ng/l	0		30
Perfluoropentanesulfonic Acid (PFPeS)	1.63J	1.91	ng/l	NC		30
Perfluoroheptanoic Acid (PFHpA)	6.70	6.82	ng/l	2		30
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	1.07J	1.38J	ng/l	NC		30
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	5.22	5.00	ng/l	4		30
Perfluorohexanesulfonic Acid (PFHxS)	6.29	6.38	ng/l	1		30
Perfluorooctanoic Acid-Branched (br-PFOA)	3.60	3.64	ng/l	1		30
Perfluorooctanoic Acid-Linear (L-PFOA)	24.1	24.3	ng/l	1		30
Perfluorooctanoic Acid (PFOA)	27.7	28.0	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.22J	1.12J	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	2.67	2.61	ng/l	2		30
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	23.6	23.6	ng/l	0		30
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	46.3	47.3	ng/l	2		30
Perfluorooctanesulfonic Acid (PFOS)	70.0	70.8	ng/l	1		30
Perfluorodecanoic Acid (PFDA)	1.40J	1.38J	ng/l	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1493960-4 QC Sample: L2121570-02 Client ID: DUP Sample						
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
Perfluorooctanesulfonamide (FOSA)	1.27JF	0.911JF	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30
PFOA/PFOS, Total	97.7	98.8	ng/l	1		30
PFAS, Total (5)	113	115	ng/l	1		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		79		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		76		62-163

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
Report Date: 05/13/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1493960-4 QC Sample: L2121570-02 Client ID: DUP Sample

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73		74		70-131
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	69		70		12-142
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	60		61		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67		70		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80		81		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72		74		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	69		69		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	64		68		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**67**	Q	**68**	Q	69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	65		63		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	65		60		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37		37		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	63		59		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		21		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	49		50		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	62		61		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		63		22-136

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2122071
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122071-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2122071-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2122071-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2122071-01D	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2122071-01E	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2122071-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2122071-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2122071
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: GROSSINGERS **Lab Number:** L2122071

Project Number: 9313 **Report Date:** 05/13/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2122071
Project Number:	9313	**Report Date:**	05/13/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GROSSINGERS	**Lab Number:**	L2122071
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Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	GROSSINGERS	**Lab Number:**	L2122071
Project Number:	9313	**Report Date:**	05/13/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 4/29/21 RS 5/1/21

ALPHA Job #: L2132071

Client Information

Client: SESI Consulting Engineers
Address: 12A Maple Ave.
Phone:
Fax:
Email: TLK@SESI.org

Project Information

Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9213:11
(Use Project name as Project #)
Project Manager: Todd Kelly
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL

Deliverables

- ASP-A
- ASP-B: X
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement

- NY TOGS
- NY Part 375
- AWQ Standards: X
- NY CP-51
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information

- Same as Client Info: X

PO # 9213:11

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- NJ
- NY
- Other:

ANALYSIS

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS (537)	TCL VOC+15	Sample Specific Comments
22071.01	MW-21C	4/29/21	1100	GW	MEM	X	X	
.02	TB	4/29/21	—	Blank	MAB		X	

Container Type: P, V
Preservative: A, B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/29/21 1305		4/29/21 1305
	4.29.21 1735		4/29/21 1735
	4/29/21 2150		4/29/21 2150

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Appendix D:

Soil Vapor Laboratory Data

ANALYTICAL REPORT

Lab Number:	L2010375
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Fuad Duhan
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313
Report Date:	03/13/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010375
Report Date: 03/13/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2010375-01	SMPV-14	SOIL_VAPOR	LIBERTY, NY	03/06/20 12:21	03/06/20
L2010375-02	SMPV-13	SOIL_VAPOR	LIBERTY, NY	03/06/20 12:56	03/06/20
L2010375-03	SMPV-1	SOIL_VAPOR	LIBERTY, NY	03/06/20 13:12	03/06/20
L2010375-04	SMPV-3	SOIL_VAPOR	LIBERTY, NY	03/06/20 14:15	03/06/20
L2010375-05	SMPV-2	SOIL_VAPOR	LIBERTY, NY	03/06/20 15:06	03/06/20
L2010375-06	SMPV-12	SOIL_VAPOR	LIBERTY, NY	03/06/20 15:35	03/06/20
L2010375-07	SMPV-10	SOIL_VAPOR	LIBERTY, NY	03/06/20 15:52	03/06/20
L2010375-08	SMPV-11	SOIL_VAPOR	LIBERTY, NY	03/06/20 16:14	03/06/20
L2010375-09	UNUSED CAN #2985	AIR	LIBERTY, NY		03/06/20

Project Name:	GROSSINGERS	**Lab Number:**	L2010375
Project Number:	9313	**Report Date:**	03/13/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GROSSINGERS	**Lab Number:**	L2010375
Project Number:	9313	**Report Date:**	03/13/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 25, and March 4, 2020. The canister certification results are provided as an addendum.

L2010375-01: The sample was re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2010375-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1350343-3 LCS recovery for 1,2,4-trichlorobenzene (136%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 03/13/20

AIR

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-01
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:21
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 01:47
Analyst: TS

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	16.6	0.200	--	82.1	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.97	5.00	--	11.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.76	1.00	--	13.7	2.38	--		1
Trichlorofluoromethane	142	0.200	--	798	1.12	--	E	1
Isopropanol	1.31	0.500	--	3.22	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.248	0.200	--	0.772	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.42	0.500	--	4.19	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-01
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:21
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.486	0.200	--	1.71	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.474	0.200	--	1.51	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.430	0.200	--	1.76	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.10	0.200	--	7.91	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.77	0.200	--	12.0	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.617	0.200	--	2.68	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-01
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:21
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.22	0.400	--	9.64	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.835	0.200	--	3.63	0.869	--		1
4-Ethyltoluene	0.222	0.200	--	1.09	0.983	--		1
1,3,5-Trimethylbenzene	0.250	0.200	--	1.23	0.983	--		1
1,2,4-Trimethylbenzene	0.943	0.200	--	4.64	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	107		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-01 D
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:21
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 08:37
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichlorofluoromethane	147	0.400	--	826	2.25	--		2

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	101		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	106		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-02
Client ID: SMPV-13
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:56
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 02:27
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	57.7	0.200	--	285	0.989	--		1
Chloromethane	0.522	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.397	0.200	--	0.878	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.40	1.00	--	5.70	2.38	--		1
Trichlorofluoromethane	8.67	0.200	--	48.7	1.12	--		1
Isopropanol	0.808	0.500	--	1.99	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.06	0.500	--	3.68	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.256	0.200	--	0.797	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-02
Client ID: SMPV-13
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:56
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.200	0.200	--	0.705	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.222	0.200	--	0.837	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-02
Client ID: SMPV-13
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 12:56
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	103		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-03
Client ID: SMPV-1
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 13:12
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 03:07
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.650	0.200	--	3.21	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.91	1.00	--	9.29	2.38	--		1
Trichlorofluoromethane	0.754	0.200	--	4.24	1.12	--		1
Isopropanol	1.25	0.500	--	3.07	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.878	0.200	--	2.73	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.01	0.500	--	2.98	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-03
Client ID: SMPV-1
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 13:12
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.469	0.200	--	1.65	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.254	0.200	--	0.811	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.269	0.200	--	0.926	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.337	0.200	--	1.38	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.42	0.200	--	5.35	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	1.38	0.200	--	9.36	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.414	0.200	--	1.80	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-03
Client ID: SMPV-1
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 13:12
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.66	0.400	--	7.21	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.608	0.200	--	2.64	0.869	--		1
4-Ethyltoluene	0.203	0.200	--	0.998	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.803	0.200	--	3.95	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	104		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-04
Client ID: SMPV-3
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 14:15
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 03:47
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.978	0.200	--	4.84	0.989	--		1
Chloromethane	0.539	0.200	--	1.11	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.04	1.00	--	4.85	2.38	--		1
Trichlorofluoromethane	0.569	0.200	--	3.20	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-04
Client ID: SMPV-3
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 14:15
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-04
Client ID: SMPV-3
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 14:15
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-05
Client ID: SMPV-2
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:06
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 05:18
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.436	0.200	--	2.16	0.989	--		1
Chloromethane	0.483	0.200	--	0.997	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.79	1.00	--	4.25	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-05
Client ID: SMPV-2
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:06
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-05
Client ID: SMPV-2
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:06
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	101		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	104		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-06
Client ID: SMPV-12
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:35
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 05:59
Analyst: TS

	ppbV			ug/m3				
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.553	0.200	--	2.73	0.989	--		1
Chloromethane	0.519	0.200	--	1.07	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.63	1.00	--	3.87	2.38	--		1
Trichlorofluoromethane	0.323	0.200	--	1.82	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-06
Client ID: SMPV-12
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:35
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-06
Client ID: SMPV-12
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:35
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-07
Client ID: SMPV-10
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:52
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 06:39
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	14.8	0.200	--	73.2	0.989	--		1
Chloromethane	0.260	0.200	--	0.537	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.51	1.00	--	10.7	2.38	--		1
Trichlorofluoromethane	19.7	0.200	--	111	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.622	0.500	--	1.83	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-07
Client ID: SMPV-10
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:52
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.341	0.200	--	1.20	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.342	0.200	--	1.09	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.331	0.200	--	1.36	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.22	0.200	--	8.37	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	2.10	0.200	--	14.2	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.668	0.200	--	2.90	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-07
Client ID: SMPV-10
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 15:52
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.63	0.400	--	11.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.00	0.200	--	4.34	0.869	--		1
4-Ethyltoluene	0.308	0.200	--	1.51	0.983	--		1
1,3,5-Trimethylbenzene	0.340	0.200	--	1.67	0.983	--		1
1,2,4-Trimethylbenzene	1.29	0.200	--	6.34	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	109		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-08
Client ID: SMPV-11
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 16:14
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 03/13/20 07:20
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.510	0.200	--	2.52	0.989	--		1
Chloromethane	0.523	0.200	--	1.08	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.93	1.00	--	4.58	2.38	--		1
Trichlorofluoromethane	1.73	0.200	--	9.72	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-08
Client ID: SMPV-11
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 16:14
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.309	0.200	--	1.09	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.204	0.200	--	0.652	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.290	0.200	--	0.998	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

SAMPLE RESULTS

Lab ID: L2010375-08
Client ID: SMPV-11
Sample Location: LIBERTY, NY

Date Collected: 03/06/20 16:14
Date Received: 03/06/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	101		60-140

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/12/20 14:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1350343-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/12/20 14:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1350343-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 03/12/20 14:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-08 Batch: WG1350343-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010375
Report Date: 03/13/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1350343-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	97		-		70-130	-		
Freon-114	101		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Bromomethane	101		-		70-130	-		
Chloroethane	93		-		70-130	-		
Ethanol	89		-		40-160	-		
Vinyl bromide	91		-		70-130	-		
Acetone	82		-		40-160	-		
Trichlorofluoromethane	89		-		70-130	-		
Isopropanol	80		-		40-160	-		
1,1-Dichloroethene	99		-		70-130	-		
Tertiary butyl Alcohol	88		-		70-130	-		
Methylene chloride	100		-		70-130	-		
3-Chloropropene	103		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	102		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	98		-		70-130	-		
Methyl tert butyl ether	90		-		70-130	-		
2-Butanone	102		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313
Lab Number: L2010375
Report Date: 03/13/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1350343-3								
Ethyl Acetate	108		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	100		-		70-130	-		
1,2-Dichloroethane	93		-		70-130	-		
n-Hexane	98		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	99		-		70-130	-		
Cyclohexane	99		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	101		-		70-130	-		
2,2,4-Trimethylpentane	101		-		70-130	-		
Heptane	101		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	104		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	105		-		70-130	-		
Toluene	102		-		70-130	-		
2-Hexanone	112		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010375

Report Date: 03/13/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-08 Batch: WG1350343-3								
Tetrachloroethene	102		-		70-130	-		
Chlorobenzene	104		-		70-130	-		
Ethylbenzene	104		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	110		-		70-130	-		
Styrene	106		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	107		-		70-130	-		
4-Ethyltoluene	106		-		70-130	-		
1,3,5-Trimethylbenzene	108		-		70-130	-		
1,2,4-Trimethylbenzene	112		-		70-130	-		
Benzyl chloride	117		-		70-130	-		
1,3-Dichlorobenzene	114		-		70-130	-		
1,4-Dichlorobenzene	112		-		70-130	-		
1,2-Dichlorobenzene	115		-		70-130	-		
1,2,4-Trichlorobenzene	**136**	Q	-		70-130	-		
Hexachlorobutadiene	127		-		70-130	-		

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010375

Report Date: 03/13/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2010375-01	SMPV-14	01870	SV200	02/25/20	315200		-	-	-	Pass	220	201	9
L2010375-01	SMPV-14	1784	6.0L Can	02/25/20	315200	L2007511-03	Pass	-29.0	-7.7	-	-	-	-
L2010375-02	SMPV-13	01857	SV200	02/25/20	315200		-	-	-	Pass	217	192	12
L2010375-02	SMPV-13	608	6.0L Can	02/25/20	315200	L2007511-04	Pass	-29.0	-8.0	-	-	-	-
L2010375-03	SMPV-1	01863	SV200	02/25/20	315200		-	-	-	Pass	216	198	9
L2010375-03	SMPV-1	979	6.0L Can	02/25/20	315200	L2007511-04	Pass	-28.9	-7.1	-	-	-	-
L2010375-04	SMPV-3	0772	Flow 1	03/04/20	315864		-	-	-	Pass	160	156	3
L2010375-04	SMPV-3	2667	6.0L Can	03/04/20	315864	L2008049-03	Pass	-28.9	-14.2	-	-	-	-
L2010375-05	SMPV-2	0581	Flow 1	03/04/20	315864		-	-	-	Pass	160	168	5
L2010375-05	SMPV-2	1843	6.0L Can	03/04/20	315864	L2008049-03	Pass	-28.2	-8.2	-	-	-	-
L2010375-06	SMPV-12	01700	Flow 1	03/04/20	315864		-	-	-	Pass	160	159	1
L2010375-06	SMPV-12	2721	6.0L Can	03/04/20	315864	L2008049-03	Pass	-28.9	-14.7	-	-	-	-
L2010375-07	SMPV-10	0410	Flow 1	03/04/20	315864		-	-	-	Pass	160	153	4
L2010375-07	SMPV-10	2812	6.0L Can	03/04/20	315864	L2008049-03	Pass	-28.9	-6.9	-	-	-	-
L2010375-08	SMPV-11	0319	Flow 1	03/04/20	315864		-	-	-	Pass	160	157	2

Project Name: GROSSINGERS

Project Number: 9313

Lab Number: L2010375

Report Date: 03/13/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2010375-08	SMPV-11	2930	6.0L Can	03/04/20	315864	L2008049-03	Pass	-28.9	-15.0	-	-	-	-
L2010375-09	UNUSED CAN #2985	01866	SV200	02/25/20	315200		-	-	-	Pass	216	193	11
L2010375-09	UNUSED CAN #2985	2958	6.0L Can	02/25/20	315200	L2007511-04	Pass	-29.1	-11.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/20/20 19:46
Analyst: GP

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2007511

Project Number: CANISTER QC BAT **Report Date:** 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	85		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	80		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/20/20 19:46
Analyst: GP

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2007511

Project Number: CANISTER QC BAT **Report Date:** 03/13/20

Air Canister Certification Results

Lab ID: L2007511-03
Client ID: CAN 2005 SHELF 41
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	82		60-140
bromochloromethane	83		60-140
chlorobenzene-d5	79		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/20/20 20:24
Analyst: GP

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2007511

Project Number: CANISTER QC BAT **Report Date:** 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	85		60-140
chlorobenzene-d5	77		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/20/20 20:24
Analyst: GP

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2007511
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2007511

Project Number: CANISTER QC BAT **Report Date:** 03/13/20

Air Canister Certification Results

Lab ID: L2007511-04
Client ID: CAN 3389 SHELF 42
Sample Location:

Date Collected: 02/19/20 16:00
Date Received: 02/20/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	81		60-140
chlorobenzene-d5	77		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2008049
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/27/20 19:13
Analyst: GP

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2008049
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2008049
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2008049
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2008049
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	94		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2008049

Project Number: CANISTER QC BAT **Report Date:** 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/27/20 19:13
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2008049
Report Date: 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2008049

Project Number: CANISTER QC BAT **Report Date:** 03/13/20

Air Canister Certification Results

Lab ID: L2008049-03
Client ID: CAN 2829 SHELF 46
Sample Location:

Date Collected: 02/26/20 16:00
Date Received: 02/27/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	89		60-140

Project Name: GROSSINGERS
Project Number: 9313

Lab Number: L2010375
Report Date: 03/13/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2010375-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-08A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2010375-09A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	GROSSINGERS	**Lab Number:**	L2010375
Project Number:	9313	**Report Date:**	03/13/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	GROSSINGERS	**Lab Number:**	L2010375
Project Number:	9313	**Report Date:**	03/13/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name:	GROSSINGERS	**Lab Number:**	L2010375
Project Number:	9313	**Report Date:**	03/13/20

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/7/20

ALPHA Job #: L2 010375

Client Information

Client: SESD
Address: 12a Mapleave Pine Brook, NJ
Phone: 973 808 9050
Fax:
Email: FA@sesi.org
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9313
Project Manager: Fuad Dahan
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 1 week Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #: 9313
Phase 10

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
NY		Res

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
	~~SMPV-13~~	~~3/6/20~~	~~1145~~	~~1215~~	~~-28.42~~		SV	JS	6L	~~2958~~	~~0846~~	~~X~~					
10375-01	SMPV-14	3/6/20	1151	1221	-28.71	-7.01	SV	JCS	6L	1784	01870	X					
-02	SMPV-13		1226	1256	-28.64	-7.55				608	0857						
-03	SMPV-1		1242	1312	-28.76	-6.65				979	0863						
-04	SMPV-3		1345	1415	-28.13	-13.62				2467	0772						
-05	SMPV-2		1436	1506	-27.70	-7.88				1843	0581						
-06	SMPV-12		1505	1535	-28.42	-14.30				2721	01700						
-07	SMPV-10		1522	1552	-28.33	-6.50				2812	0410						
-08	SMPV-11	↓	1546	1614	-28.88	-14.57	↓	↓	↓	2930	0319	↓					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	~~3/6/20 1830~~		3/6/20 1830
	3/6/20 1830		3/6/20 2245
	3/7/20 0405		3/7/20 04:05

Form No: 101-02 Rev: (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2122115
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Todd Kelly
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313:11
Report Date:	05/05/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2122115-01	SMPV-1	SOIL_VAPOR	LIBERTY, NY	04/29/21 11:57	04/29/21
L2122115-02	SMPV-2	SOIL_VAPOR	LIBERTY, NY	04/29/21 10:12	04/29/21
L2122115-03	SMPV-3	SOIL_VAPOR	LIBERTY, NY	04/29/21 12:34	04/29/21
L2122115-04	UNUSED CAN 2578	SOIL_VAPOR	LIBERTY, NY		04/29/21

Project Name:	GROSSINGERS	**Lab Number:**	L2122115
Project Number:	9313:11	**Report Date:**	05/05/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GROSSINGERS	**Lab Number:**	L2122115
Project Number:	9313:11	**Report Date:**	05/05/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 26, 2021. The canister certification results are provided as an addendum.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 05/05/21

AIR

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-01
Client ID: SMPV-1
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 11:57
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/04/21 20:48
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.478	0.200	--	2.36	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	41.2	5.00	--	77.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.8	1.00	--	35.2	2.38	--		1
Trichlorofluoromethane	0.456	0.200	--	2.56	1.12	--		1
Isopropanol	0.707	0.500	--	1.74	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.48	0.500	--	4.49	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.702	0.500	--	2.07	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-01
Client ID: SMPV-1
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 11:57
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.741	0.200	--	2.37	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.354	0.200	--	1.65	0.934	--		1
Heptane	0.261	0.200	--	1.07	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	2.92	0.500	--	12.0	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.03	0.200	--	7.65	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.792	0.200	--	3.44	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-01
Client ID: SMPV-1
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 11:57
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	2.99	0.400	--	13.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.26	0.200	--	5.47	0.869	--		1
4-Ethyltoluene	0.268	0.200	--	1.32	0.983	--		1
1,3,5-Trimethylbenzene	0.417	0.200	--	2.05	0.983	--		1
1,2,4-Trimethylbenzene	1.34	0.200	--	6.59	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-02
Client ID: SMPV-2
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 10:12
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/04/21 21:27
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.510	0.200	--	2.52	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	62.9	5.00	--	119	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.8	1.00	--	28.0	2.38	--		1
Trichlorofluoromethane	3.83	0.200	--	21.5	1.12	--		1
Isopropanol	0.652	0.500	--	1.60	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.708	0.500	--	2.15	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.552	0.500	--	1.63	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-02
Client ID: SMPV-2
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 10:12
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.215	0.200	--	0.758	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.477	0.200	--	1.52	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.230	0.200	--	0.792	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.549	0.200	--	2.56	0.934	--		1
Heptane	0.584	0.200	--	2.39	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	3.53	0.500	--	14.5	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	4.58	0.200	--	17.3	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.46	0.200	--	6.34	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-02
Client ID: SMPV-2
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 10:12
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.45	0.400	--	23.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.05	0.200	--	8.90	0.869	--		1
4-Ethyltoluene	0.411	0.200	--	2.02	0.983	--		1
1,3,5-Trimethylbenzene	0.547	0.200	--	2.69	0.983	--		1
1,2,4-Trimethylbenzene	1.76	0.200	--	8.65	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-03
Client ID: SMPV-3
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 12:34
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/04/21 22:05
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.473	0.200	--	2.34	0.989	--		1
Chloromethane	0.626	0.200	--	1.29	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	38.0	5.00	--	71.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.1	1.00	--	33.5	2.38	--		1
Trichlorofluoromethane	0.215	0.200	--	1.21	1.12	--		1
Isopropanol	0.501	0.500	--	1.23	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.49	0.500	--	4.52	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.815	0.500	--	2.40	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-03
Client ID: SMPV-3
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 12:34
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.897	0.200	--	2.87	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.332	0.200	--	1.55	0.934	--		1
Heptane	0.271	0.200	--	1.11	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	2.72	0.500	--	11.1	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.66	0.200	--	6.26	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.688	0.200	--	2.99	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

SAMPLE RESULTS

Lab ID: L2122115-03
Client ID: SMPV-3
Sample Location: LIBERTY, NY

Date Collected: 04/29/21 12:34
Date Received: 04/29/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	3.29	0.400	--	14.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.33	0.200	--	5.78	0.869	--		1
4-Ethyltoluene	0.422	0.200	--	2.07	0.983	--		1
1,3,5-Trimethylbenzene	0.700	0.200	--	3.44	0.983	--		1
1,2,4-Trimethylbenzene	1.86	0.200	--	9.14	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.281	0.200	--	1.69	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/04/21 14:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1494290-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/04/21 14:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1494290-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/04/21 14:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG1494290-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1494290-3								
Dichlorodifluoromethane	108		-		70-130	-		
Chloromethane	107		-		70-130	-		
Freon-114	104		-		70-130	-		
Vinyl chloride	104		-		70-130	-		
1,3-Butadiene	107		-		70-130	-		
Bromomethane	98		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethanol	102		-		40-160	-		
Vinyl bromide	97		-		70-130	-		
Acetone	75		-		40-160	-		
Trichlorofluoromethane	105		-		70-130	-		
Isopropanol	77		-		40-160	-		
1,1-Dichloroethene	100		-		70-130	-		
Tertiary butyl Alcohol	89		-		70-130	-		
Methylene chloride	105		-		70-130	-		
3-Chloropropene	105		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
Freon-113	98		-		70-130	-		
trans-1,2-Dichloroethene	93		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
2-Butanone	105		-		70-130	-		
cis-1,2-Dichloroethene	103		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1494290-3								
Ethyl Acetate	97		-		70-130	-		
Chloroform	101		-		70-130	-		
Tetrahydrofuran	104		-		70-130	-		
1,2-Dichloroethane	112		-		70-130	-		
n-Hexane	99		-		70-130	-		
1,1,1-Trichloroethane	122		-		70-130	-		
Benzene	99		-		70-130	-		
Carbon tetrachloride	121		-		70-130	-		
Cyclohexane	101		-		70-130	-		
1,2-Dichloropropane	106		-		70-130	-		
Bromodichloromethane	112		-		70-130	-		
1,4-Dioxane	103		-		70-130	-		
Trichloroethene	103		-		70-130	-		
2,2,4-Trimethylpentane	105		-		70-130	-		
Heptane	116		-		70-130	-		
cis-1,3-Dichloropropene	118		-		70-130	-		
4-Methyl-2-pentanone	120		-		70-130	-		
trans-1,3-Dichloropropene	108		-		70-130	-		
1,1,2-Trichloroethane	111		-		70-130	-		
Toluene	90		-		70-130	-		
2-Hexanone	103		-		70-130	-		
Dibromochloromethane	101		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313:11

Lab Number: L2122115

Report Date: 05/05/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG1494290-3								
Tetrachloroethene	84		-		70-130	-		
Chlorobenzene	88		-		70-130	-		
Ethylbenzene	96		-		70-130	-		
p/m-Xylene	94		-		70-130	-		
Bromoform	100		-		70-130	-		
Styrene	93		-		70-130	-		
1,1,2,2-Tetrachloroethane	92		-		70-130	-		
o-Xylene	97		-		70-130	-		
4-Ethyltoluene	95		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
1,2,4-Trimethylbenzene	96		-		70-130	-		
Benzyl chloride	91		-		70-130	-		
1,3-Dichlorobenzene	85		-		70-130	-		
1,4-Dichlorobenzene	91		-		70-130	-		
1,2-Dichlorobenzene	88		-		70-130	-		
1,2,4-Trichlorobenzene	76		-		70-130	-		
Hexachlorobutadiene	86		-		70-130	-		

Project Name: GROSSINGERS

Lab Number: L2122115

Project Number: 9313:11

Report Date: 05/05/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122115-01	SMPV-1	01914	SV200	04/26/21	350136		-	-	-	Pass	219	220	0
L2122115-01	SMPV-1	2052	6.0L Can	04/26/21	350136	L2117575-02	Pass	-29.6	-6.5	-	-	-	-
L2122115-02	SMPV-2	0658	SV200	04/26/21	350136		-	-	-	Pass	219	224	2
L2122115-02	SMPV-2	2565	6.0L Can	04/26/21	350136	L2118246-02	Pass	-29.4	-5.9	-	-	-	-
L2122115-03	SMPV-3	0997	SV200	04/26/21	350136		-	-	-	Pass	220	223	1
L2122115-03	SMPV-3	1578	6.0L Can	04/26/21	350136	L2117575-02	Pass	-28.5	-7.1	-	-	-	-
L2122115-04	UNUSED CAN 2578	02119	SV200	04/26/21	350136		-	-	-	Pass	225	220	2
L2122115-04	UNUSED CAN 2578	2578	6.0L Can	04/26/21	350136	L2117575-02	Pass	-29.1	-29.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/08/21 17:35
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/08/21 17:35
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2117575
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2117575

Project Number: CANISTER QC BAT **Report Date:** 05/05/21

Air Canister Certification Results

Lab ID: L2117575-02
Client ID: CAN 3091 SHELF 46
Sample Location:

Date Collected: 04/07/21 16:00
Date Received: 04/08/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2118246
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/12/21 17:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2118246
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2118246
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2118246

Project Number: CANISTER QC BAT **Report Date:** 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2118246
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2118246
Report Date: 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/12/21 17:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2118246

Project Number: CANISTER QC BAT **Report Date:** 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2118246

Project Number: CANISTER QC BAT **Report Date:** 05/05/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	90		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122115
Report Date: 05/05/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122115-01A	Canister - 6 Liter	NA	NA			Y	Present/Intact		TO15-LL(30)
L2122115-02A	Canister - 6 Liter	NA	NA			Y	Present/Intact		TO15-LL(30)
L2122115-03A	Canister - 6 Liter	NA	NA			Y	Present/Intact		TO15-LL(30)
L2122115-04A	Canister - 6 Liter	NA	NA			Y	Present/Intact		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	GROSSINGERS	**Lab Number:**	L2122115
Project Number:	9313:11	**Report Date:**	05/05/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	GROSSINGERS	**Lab Number:**	L2122115
Project Number:	9313:11	**Report Date:**	05/05/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	GROSSINGERS	**Lab Number:**	L2122115
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Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122115
Report Date: 05/05/21

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Date Rec'd in Lab: 4-30-21

ALPHA Job #: L2122115

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: SESI Consulting Engineers
Address: 12 A Maple Ave
Pine Brook, NJ
Phone:
Fax:
Email: TTK@sesi.org

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Grossinger
Project Location: Liberty, NY
Project #: 9313:11
Project Manager: Todd Kelly
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #: 9313:11

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: ✱ One unused canister included

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
22115-01	SMPV-1	4/29/21	11:33	11:57	-28.43	-4.92	SV	MEM	6L	2052	0914	X					
02	SMPV-2	↓	9:48	10:12	-28.13	-4.95	SV	MEM	6L	2565	0658	X					
03	SMPV-3	↓	12:12	12:34	-26.95	-5.76	SV	MEM	6L	KFF	0997	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	4/29/21 1305	AAL	4.29.21 1305
	4.29.21 1740		4/30/21 0230

Rev. (25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2122189
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Todd Kelly
Phone:	(973) 808-9050
Project Name:	GROSSINGERS
Project Number:	9313:11
Report Date:	05/04/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2122189-01	SMPV-14	SOIL_VAPOR	LIBERTY, NY	04/28/21 14:33	04/28/21
L2122189-02	SMPV-10	SOIL_VAPOR	LIBERTY, NY	04/28/21 10:33	04/28/21
L2122189-03	SMPV-11	SOIL_VAPOR	LIBERTY, NY	04/28/21 10:54	04/28/21
L2122189-04	SMPV-13	SOIL_VAPOR	LIBERTY, NY	04/28/21 13:59	04/28/21

Project Name:	GROSSINGERS	**Lab Number:**	L2122189
Project Number:	9313:11	**Report Date:**	05/04/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GROSSINGERS	**Lab Number:**	L2122189
Project Number:	9313:11	**Report Date:**	05/04/21

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on April 26, 2021. The canister certification results are provided as an addendum.

Sample Receipt

The flow controller ID number for the sample designated SMPV-13 (L2122189-04) is listed on the CoC as 0170 but should be 0710.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 05/04/21

AIR

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-01
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 14:33
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/03/21 17:13
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	2.14	0.200	--	10.6	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.89	1.00	--	21.1	2.38	--		1
Trichlorofluoromethane	79.6	0.200	--	447	1.12	--		1
Isopropanol	1.17	0.500	--	2.88	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.01	0.500	--	3.06	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-01
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 14:33
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	1.44	0.500	--	5.19	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.261	0.200	--	0.834	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.289	0.200	--	1.09	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-01
Client ID: SMPV-14
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 14:33
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.321	0.200	--	1.93	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-02
Client ID: SMPV-10
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:33
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/03/21 17:52
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.70	0.200	--	8.41	0.989	--		1
Chloromethane	0.262	0.200	--	0.541	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	20.6	5.00	--	38.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	38.3	1.00	--	91.0	2.38	--		1
Trichlorofluoromethane	3.82	0.200	--	21.5	1.12	--		1
Isopropanol	13.2	0.500	--	32.4	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	6.25	0.500	--	18.9	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.61	0.500	--	4.75	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-02
Client ID: SMPV-10
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:33
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	26.3	0.500	--	94.8	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.26	0.200	--	7.96	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.594	0.200	--	1.90	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.438	0.200	--	1.79	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.690	0.500	--	2.83	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.91	0.200	--	29.8	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.319	0.200	--	1.39	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-02
Client ID: SMPV-10
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:33
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.49	0.400	--	6.47	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.204	0.200	--	0.869	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.768	0.200	--	3.34	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.220	0.200	--	1.32	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	101		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-03
Client ID: SMPV-11
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:54
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/03/21 18:31
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.452	0.200	--	2.24	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.3	5.00	--	23.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.5	1.00	--	27.3	2.38	--		1
Trichlorofluoromethane	42.3	0.200	--	238	1.12	--		1
Isopropanol	3.66	0.500	--	9.00	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.16	0.500	--	3.52	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-03
Client ID: SMPV-11
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:54
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	7.33	0.500	--	26.4	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.630	0.200	--	2.22	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.899	0.200	--	2.87	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.559	0.200	--	1.92	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	0.740	0.200	--	3.46	0.934	--		1
Heptane	0.359	0.200	--	1.47	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	3.66	0.200	--	13.8	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.369	0.200	--	1.60	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-03
Client ID: SMPV-11
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 10:54
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.61	0.400	--	6.99	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.805	0.200	--	3.50	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.348	0.200	--	1.71	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	100		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-04
Client ID: SMPV-13
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 13:59
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 05/03/21 19:50
Analyst: RY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	76.1	0.200	--	376	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.41	5.00	--	10.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.6	1.00	--	25.2	2.38	--		1
Trichlorofluoromethane	18.6	0.200	--	105	1.12	--		1
Isopropanol	1.79	0.500	--	4.40	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.41	0.500	--	4.27	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.554	0.500	--	1.63	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-04
Client ID: SMPV-13
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 13:59
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	2.58	0.500	--	9.30	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.431	0.200	--	1.38	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.714	0.200	--	2.69	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.214	0.200	--	1.45	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122189
Report Date: 05/04/21

SAMPLE RESULTS

Lab ID: L2122189-04
Client ID: SMPV-13
Sample Location: LIBERTY, NY

Date Collected: 04/28/21 13:59
Date Received: 04/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.477	0.400	--	2.07	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.299	0.200	--	1.30	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.348	0.200	--	2.09	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/03/21 15:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1493788-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122189
Report Date: 05/04/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/03/21 15:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1493788-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: GROSSINGERS
Project Number: 9313:11
Lab Number: L2122189
Report Date: 05/04/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 05/03/21 15:22

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1493788-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313:11

Lab Number: L2122189

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1493788-3								
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	88		-		70-130	-		
Freon-114	94		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Bromomethane	92		-		70-130	-		
Chloroethane	87		-		70-130	-		
Ethanol	78		-		40-160	-		
Vinyl bromide	86		-		70-130	-		
Acetone	60		-		40-160	-		
Trichlorofluoromethane	83		-		70-130	-		
Isopropanol	62		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	80		-		70-130	-		
Methylene chloride	101		-		70-130	-		
3-Chloropropene	99		-		70-130	-		
Carbon disulfide	92		-		70-130	-		
Freon-113	100		-		70-130	-		
trans-1,2-Dichloroethene	92		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	85		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	98		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313:11

Lab Number: L2122189

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1493788-3								
Ethyl Acetate	97		-		70-130	-		
Chloroform	97		-		70-130	-		
Tetrahydrofuran	90		-		70-130	-		
1,2-Dichloroethane	91		-		70-130	-		
n-Hexane	95		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	96		-		70-130	-		
Cyclohexane	98		-		70-130	-		
1,2-Dichloropropane	97		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	101		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	102		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	84		-		70-130	-		
1,1,2-Trichloroethane	103		-		70-130	-		
Toluene	101		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	113		-		70-130	-		
1,2-Dibromoethane	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: GROSSINGERS

Project Number: 9313:11

Lab Number: L2122189

Report Date: 05/04/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1493788-3								
Tetrachloroethene	105		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	109		-		70-130	-		
p/m-Xylene	108		-		70-130	-		
Bromoform	120		-		70-130	-		
Styrene	114		-		70-130	-		
1,1,2,2-Tetrachloroethane	118		-		70-130	-		
o-Xylene	110		-		70-130	-		
4-Ethyltoluene	113		-		70-130	-		
1,3,5-Trimethylbenzene	111		-		70-130	-		
1,2,4-Trimethylbenzene	114		-		70-130	-		
Benzyl chloride	113		-		70-130	-		
1,3-Dichlorobenzene	116		-		70-130	-		
1,4-Dichlorobenzene	115		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
1,2,4-Trichlorobenzene	105		-		70-130	-		
Hexachlorobutadiene	112		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1493788-5 QC Sample: L2122189-03 Client ID: SMPV-11						
Dichlorodifluoromethane	0.452	0.457	ppbV	1		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	12.3	12.1	ppbV	2		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	11.5	10.3	ppbV	11		25
Trichlorofluoromethane	42.3	40.5	ppbV	4		25
Isopropanol	3.66	3.38	ppbV	8		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	1.16	1.14	ppbV	2		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1493788-5 QC Sample: L2122189-03 Client ID: SMPV-11						
2-Butanone	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	7.33	7.41	ppbV	1		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.630	0.661	ppbV	5		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.899	0.914	ppbV	2		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	0.559	0.543	ppbV	3		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.740	0.739	ppbV	0		25
Heptane	0.359	0.388	ppbV	8		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1493788-5 QC Sample: L2122189-03 Client ID: SMPV-11						
Toluene	3.66	3.61	ppbV	1		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.369	0.369	ppbV	0		25
p/m-Xylene	1.61	1.60	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.805	0.794	ppbV	1		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.348	0.346	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	0.211	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: GROSSINGERS

Project Number: 9313:11

Lab Number: L2122189

Report Date: 05/04/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122189-01	SMPV-14	01910	SV200	04/26/21	350136		-	-	-	Pass	219	216	1
L2122189-01	SMPV-14	1641	6.0L Can	04/26/21	350136	L2118246-02	Pass	-29.4	-5.0	-	-	-	-
L2122189-02	SMPV-10	01906	SV200	04/26/21	350136		-	-	-	Pass	217	210	3
L2122189-02	SMPV-10	3328	6.0L Can	04/26/21	350136	L2118246-02	Pass	-28.9	-3.4	-	-	-	-
L2122189-03	SMPV-11	0673	SV200	04/26/21	350136		-	-	-	Pass	220	216	2
L2122189-03	SMPV-11	930	6.0L Can	04/26/21	350136	L2118246-02	Pass	-29.5	-5.8	-	-	-	-
L2122189-04	SMPV-13	0710	SV200	04/26/21	350136		-	-	-	Pass	217	217	0
L2122189-04	SMPV-13	1687	6.0L Can	04/26/21	350136	L2118246-02	Pass	-29.5	-6.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/12/21 17:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2118246
Report Date: 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/12/21 17:16
Analyst: EW

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2118246

Project Number: CANISTER QC BAT **Report Date:** 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2118246

Project Number: CANISTER QC BAT **Report Date:** 05/04/21

Air Canister Certification Results

Lab ID: L2118246-02
Client ID: CAN 1553 SHELF 40
Sample Location:

Date Collected: 04/09/21 16:00
Date Received: 04/12/21
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	90		60-140

Project Name: GROSSINGERS
Project Number: 9313:11

Lab Number: L2122189
Report Date: 05/04/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2122189-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2122189-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2122189-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2122189-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	GROSSINGERS	**Lab Number:**	L2122189
Project Number:	9313:11	**Report Date:**	05/04/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	GROSSINGERS	**Lab Number:**	L2122189
Project Number:	9313:11	**Report Date:**	05/04/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report

Project Name:	GROSSINGERS	**Lab Number:**	L2122189
Project Number:	9313:11	**Report Date:**	05/04/21

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/28/21

ALPHA Job #: L2122189

Client Information

Client: SESI Consulting Engineers
Address: 12A Maple Ave
Pine Brook, NJ
Phone: 973 808 9050
Fax:
Email: TTK@sesi.org
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Grossingers
Project Location: Liberty, NY
Project #: 9313:11
Project Manager: Todd Kelly
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
1 week
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:
9313 Phase II

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
NY	Cat B	

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
22189-01	SMPV-14	4/28/21	14:07	1433	-28.46	-2.95	SV	JCS	6L	1041	01904	X					
-02	SMPV-10		1012	1033	-27.53	-1.56			6L	3328	01906						Flow: 0.19 L/m
-03	SMPV-11		1026	1054	-28.40	-3.87			6L	930	0673						
-04	SMPV-13		1329	1359	-28.31	-4.19			6L	1687	0170						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
	4/28/21		4/28/21 15:17
	4/28/21 1720		
	4/28/21		4/29/21 0760

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Appendix E:

NYSDEC—IC & EC Certification Form

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C353015**

Site Name Former Grossingers Resort

Site Address: Clements and Grossinger Roads Zip Code: 12754
City/Town: Liberty
County: Sullivan
Site Acreage: 18.170

Reporting Period: December 31, 2019 to April 30, 2021

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C353015

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
30-1-1.1 (portion of)	Sullivan Resorts, LLC	Ground Water Use Restriction Monitoring Plan Site Management Plan IC/EC Plan

The remedy is conditional track 1. The site meets unrestricted SCOs for soil. Residual VOCs and PFAS in groundwater must be addressed by a Site Management Plan.

The use of groundwater underlying the property is prohibited without treatment rendering it safe for intended use.

Evaluation of vapor intrusion with mitigation as required prior to the construction of new buildings on site.

Monitoring of on-site groundwater.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
30-1-1.1 (portion of)	Monitoring Wells

Groundwater will be monitored until residual concentrations of VOCs and PFAS meet Department standards. If VOCs and PFAS do not naturally attenuate, groundwater treatment will be required.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C353015

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I KEVIN MOMANUS at 7 PENN PLAZA SUITE 524 WHITE PLAINS, NY
print name print business address

am certifying as PROJECT MANAGER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

07/09/21
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Fuad Dahan (print name) at SESI Consulting Engineers (print business address),

am certifying as a Qualified Environmental Professional for the Sullivan Resorts LLC (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	7/12/2021 Date